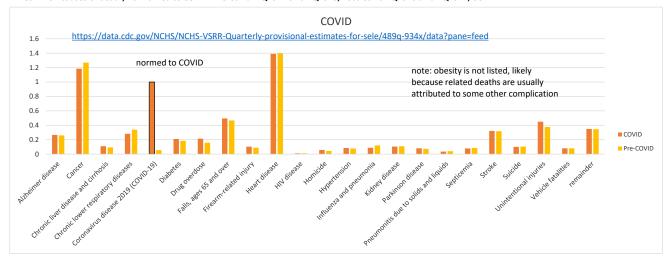
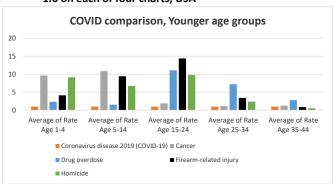
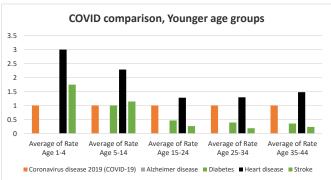
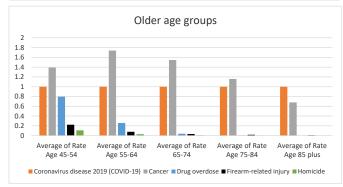
Common causes of death, normalized to COVID. Pre-Covid: 1Q2017 thru 1Q2020, Post-Covid 2Q2020 thru 1Q2021, USA

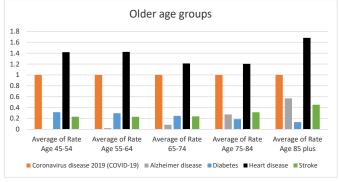


Relative effect of COVID on various age groups, and compared to cause of death. These are all relative to COVID, which is 1.0 on each of four charts, USA

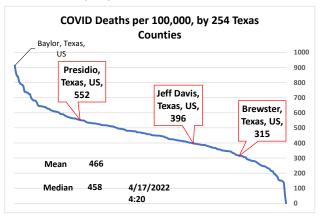


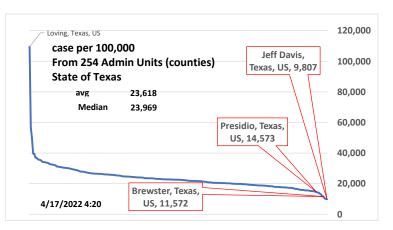


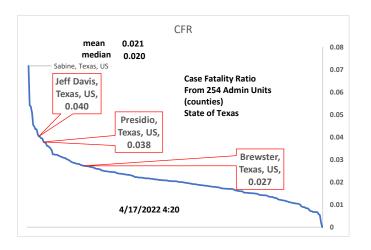




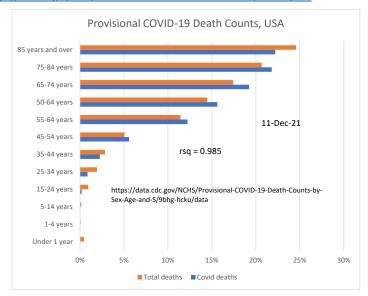
Texas and Tri-county comparisons

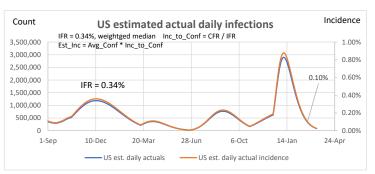






https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data





False Positives Demonstration

Use 0.19% as estimated daily incidence

0.00/ 0.0

False pos. is more than half of total positives.

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

33% accuracy or test			
	Positive	Negative	
test pos	2.527%	4.867%	7.39%
test neg	0.133%	92.473%	92.61%
	2.660%	97.340%	100.00%

Sensitivity Probability of detection

where condition exists True + / (True + & False -)

Specificity

Probability of not detecting where condition doesn't exist True - / (True - & False +)

0.19% X 14 = 2.660%

2.527%/7.39% 34.2% 4.867%/7.39% 65.8%

100.00%

95%

 ${\it Example only; sensitivity and specifity not necessarily equal.}$

Under 65 Over 65 26.0% 74.0% Αl 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.

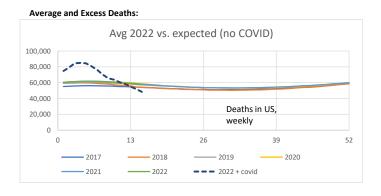
https://data.cdc.gov/NCHS/Conditions-contributing-to-deaths-involving-corona/hk9y-quqm/data

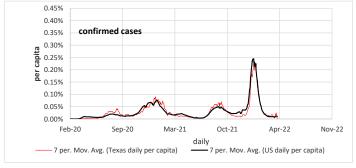
US vs. Texas

TRUE +

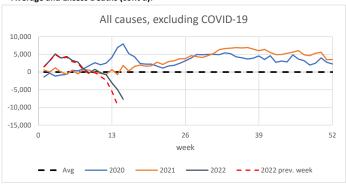
FALSE +

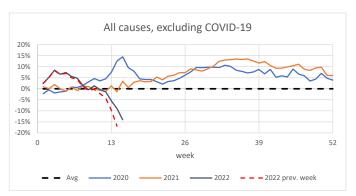
Total

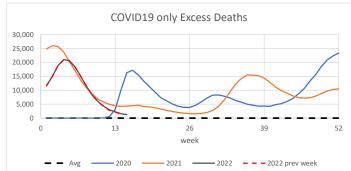




Average and Excess Deaths (cont'd):







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	910:100,000	-
Diff.	193:100,000	51:100,000	143:100,000

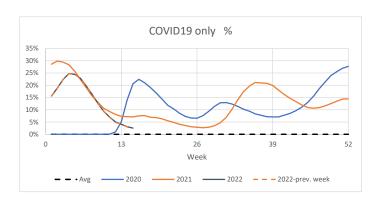
26% of All-Cause excess deaths are non-CV19

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

Week 15	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	266:100,000	266:100,000	-
2022	315:100,000	267:100,000	-
Diff.	49:100,000	1.0:100,000	48:100,000

3 yr average	Linear	Year Projection
859:100,000	2% of All-Cause excess deaths not CV19	166:100,000
have the second of the second		

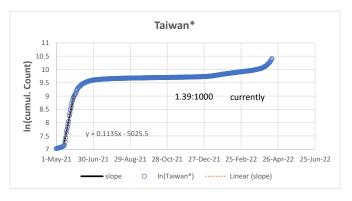
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

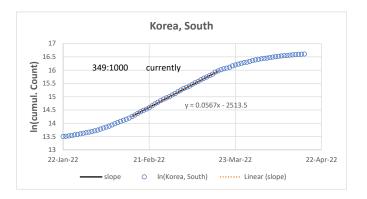


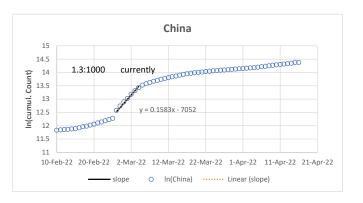
Data in recent weeks are incomplete. Only 60% of death records are submitted to NCHS within 10 days of the date of death, and completeness varies by jurisdiction. Data are not weighted and counts are likely underreported. The previous week's data is shown as dashed, to give an idea of the effect of the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

Recent exponential growth examples:

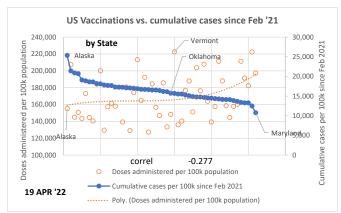


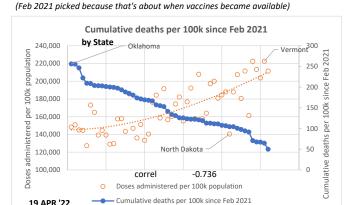






Vaccinations and cumulative outcomes:





····· Poly. (Doses administered per 100k population)

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

19 APR '22