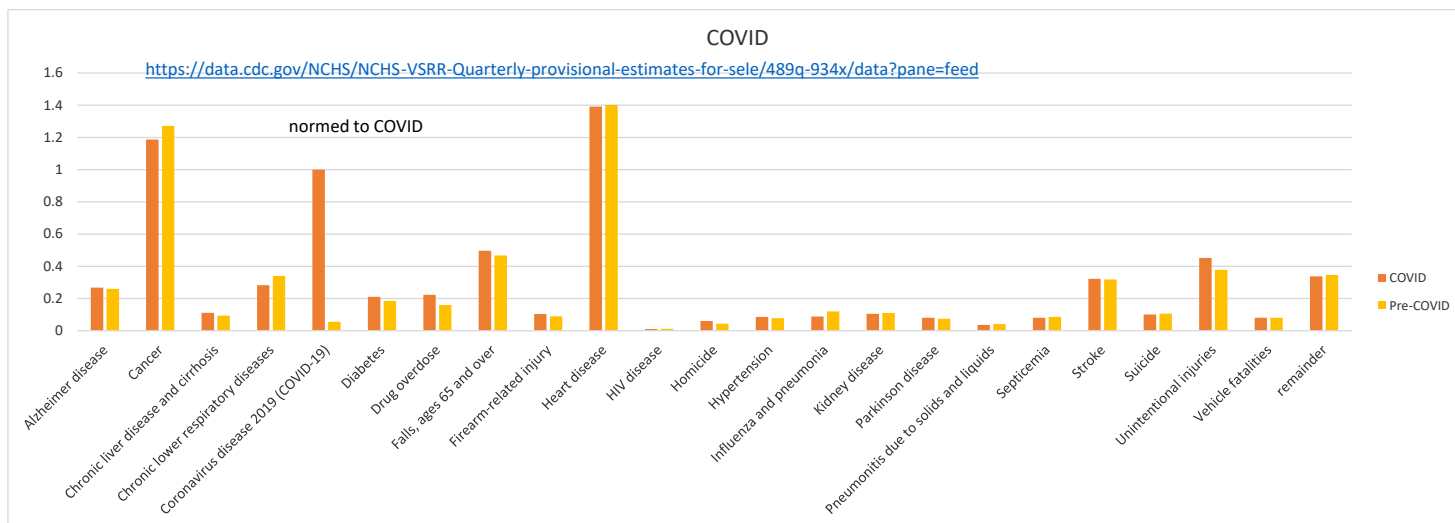
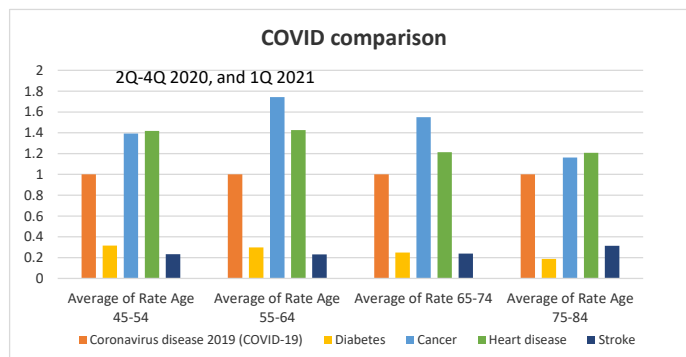
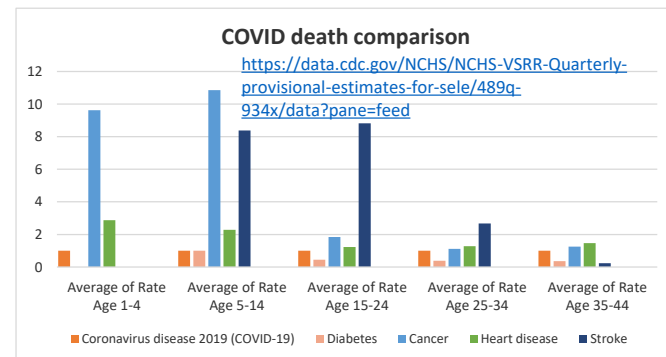
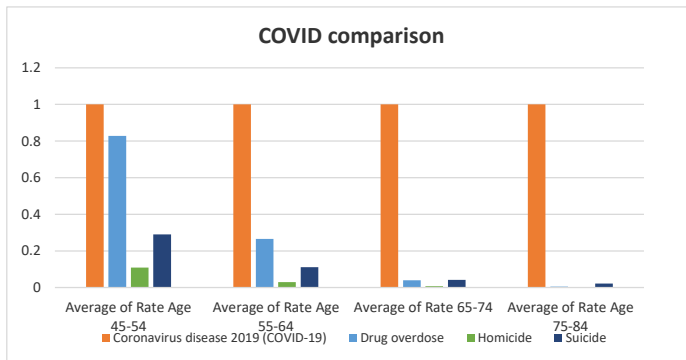
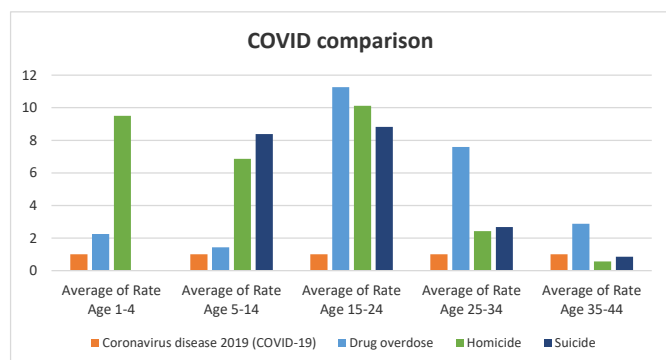


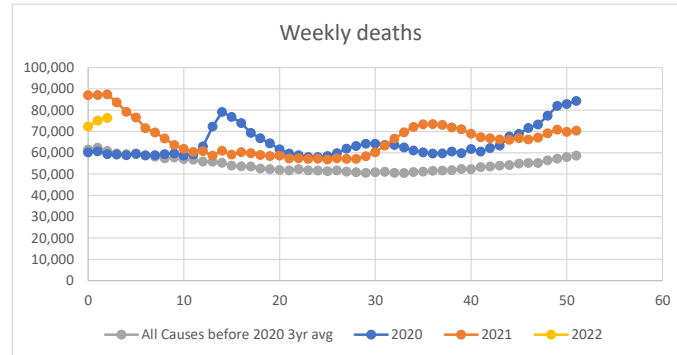
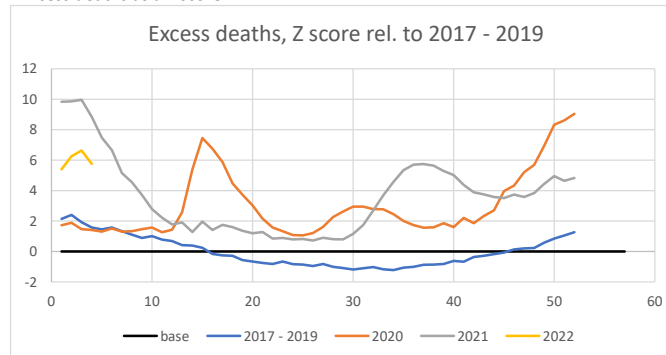
Common causes of death, normalized to COVID. Pre-Covid: 1Q2017 thru 1Q2020, Post-Covid 2Q2020 thru 1Q2021



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

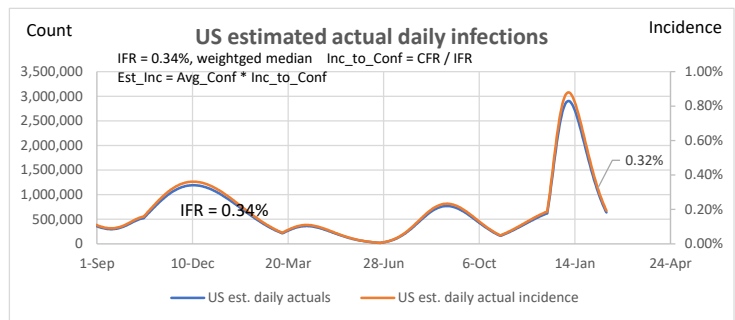
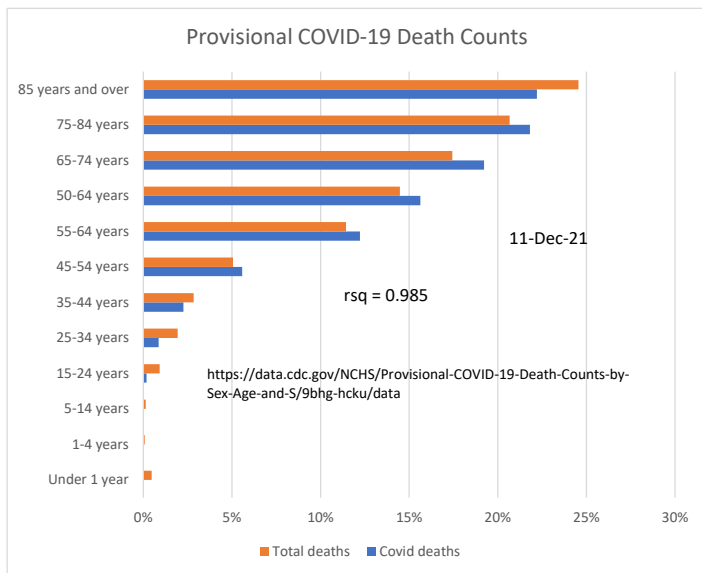


Excess deaths as a Z score:



Above based on Z score of two standard deviation from 2017-2019. What follows is cumulative plot of same.

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



False Positives Demonstration

Use 0.30% as estimated daily incidence

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

	95% accuracy of test	
	Positive	Negative
test pos	3.990%	4.790%
test neg	0.210%	91.010%
	4.200%	95.800%
		100.00%

False pos. is more than half of total positives.

TRUE +	3.99%/8.78%	45.4%
FALSE +	4.79%/8.78%	54.6%
Total		100.00%

0.30% X 14 = 4.200%

Sensitivity

Probability of detection

where condition exists

True + / (True + & False -)

95%

Specificity

Probability of not detecting where

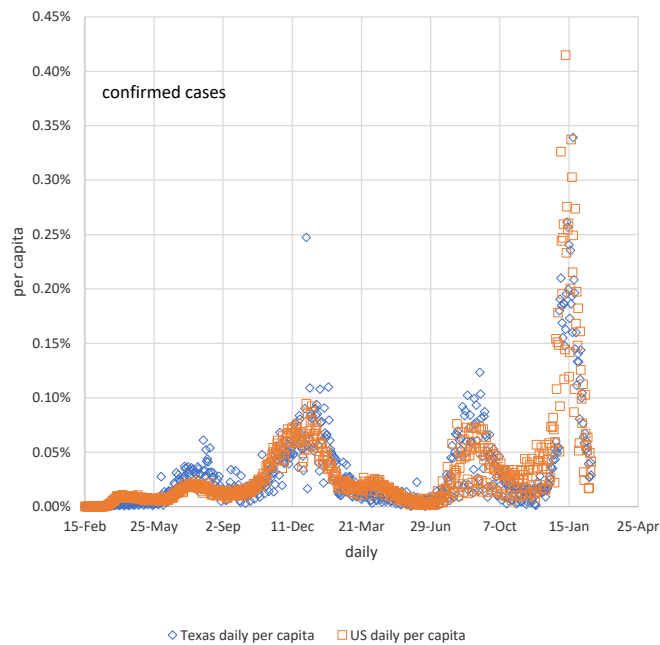
condition doesn't exist

True - / (True - & False +)

95%

Example only; sensitivity and specificity not necessarily equal.

US vs. Texas



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

3 yr average

859:100,000

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

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

USA Excess Deaths to date (2021, from CDC data):

52 weeks	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	859:100,000	859:100,000	-
2021	1048:100,000	905:100,000	-
Diff.	189:100,000	47:100,000	142:100,000

3 yr average

859:100,000

25% of All-Cause excess deaths not CV19

Linear Year Projection

142:100,000

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

6 weeks	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	110:100,000	110:100,000	-
2022	128:100,000	101:100,000	27:100,000
Diff.	18:100,000	-10:100,000	27:100,000

3 yr average

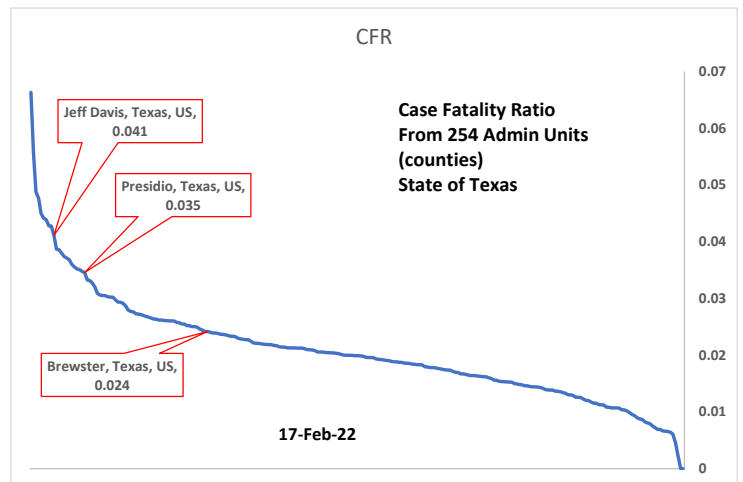
859:100,000

-55% of All-Cause excess deaths not CV19

Linear Year Projection

276:100,000

Tri-Counties in Texas:



case per 100,000

From 254 Admin Units (counties)

State of Texas

avg 22,725

Median 23,313

Brewster, Texas,
US, 11,246

Presidio, Texas,
US, 14,245

Jeff Davis,
Texas, US, 9,631

17-Feb-22