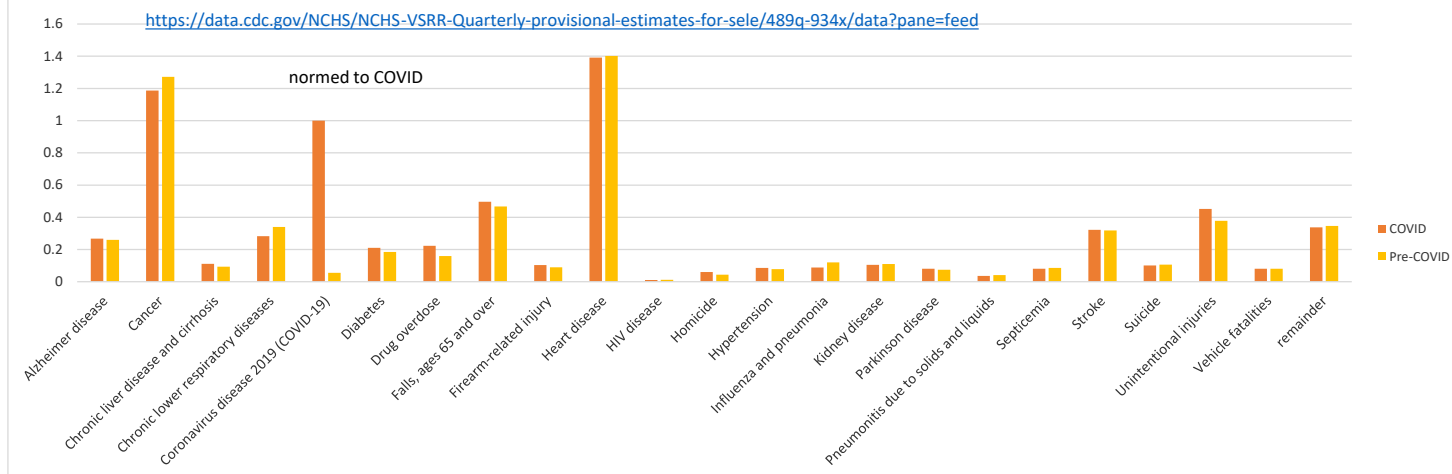
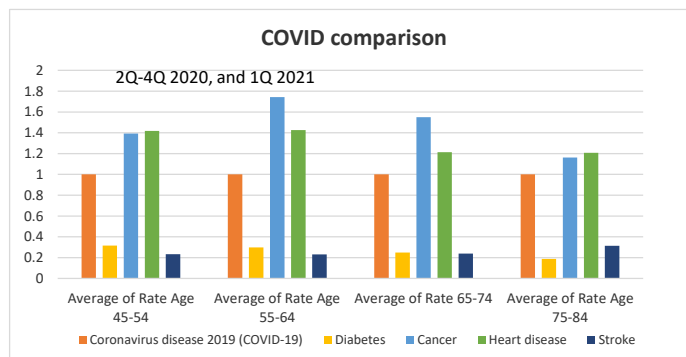
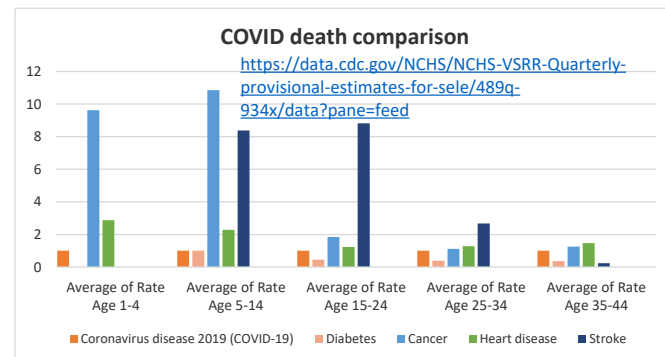
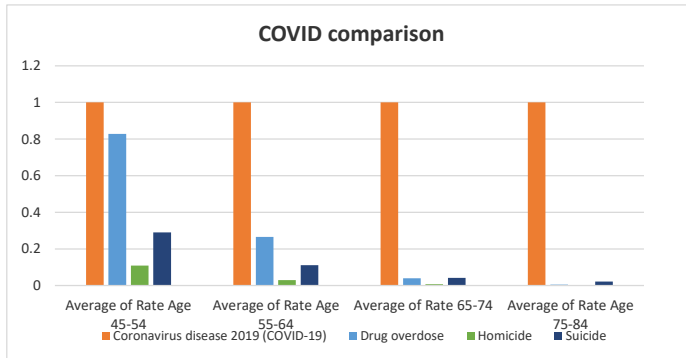
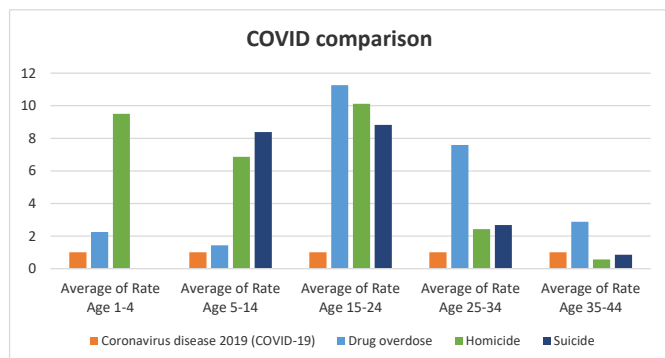


Common causes of death, normalized to COVID. Pre-Covid: 1Q2017 thru 1Q2020, Post-Covid 2Q2020 thru 1Q2021

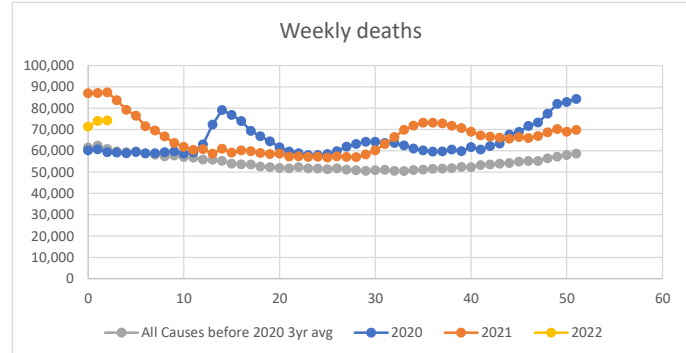
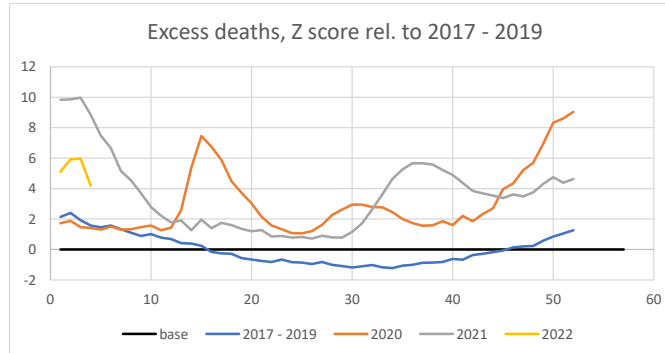
COVID



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

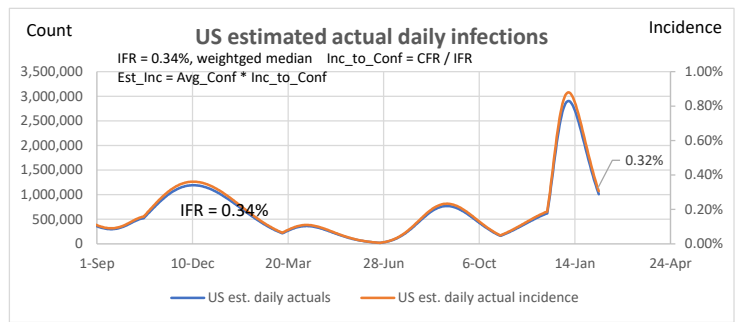
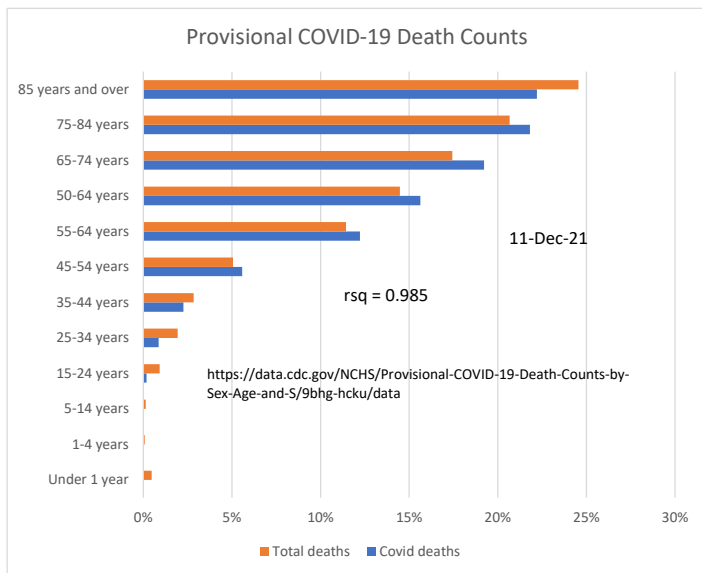


Excess deaths as a Z score:



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.

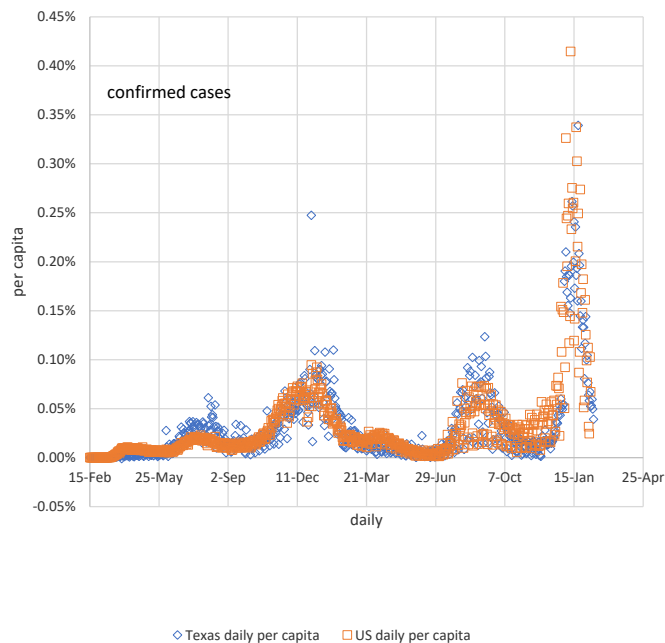
TRUE +	3.99%/8.78%	45.4%
FALSE +	4.79%/8.78%	54.6%
Total		100.00%

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
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<https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-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	1046:100,000	904:100,000	-
Diff.	187:100,000	45:100,000	142:100,000

3 yr average	859:100,000	24% of All-Cause excess deaths not CV19	Linear Year Projection 142:100,000
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USA Excess Deaths to date (2022, from CDC data):

5 weeks	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	92:100,000	92:100,000	-
2022	105:100,000	83:100,000	-
Diff.	13:100,000	-9:100,000	22:100,000

3 yr average	859:100,000	-72% of All-Cause excess deaths not CV19	Linear Year Projection 281:100,000
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Tri-Counties in Texas:

