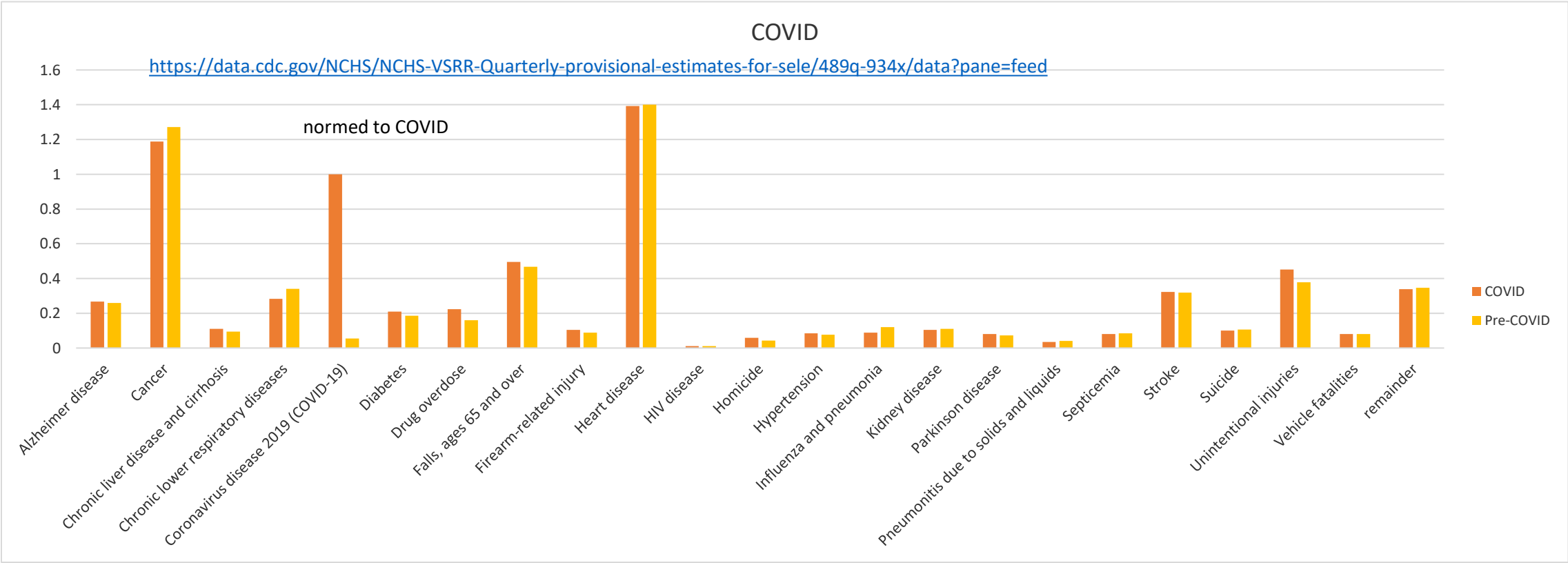
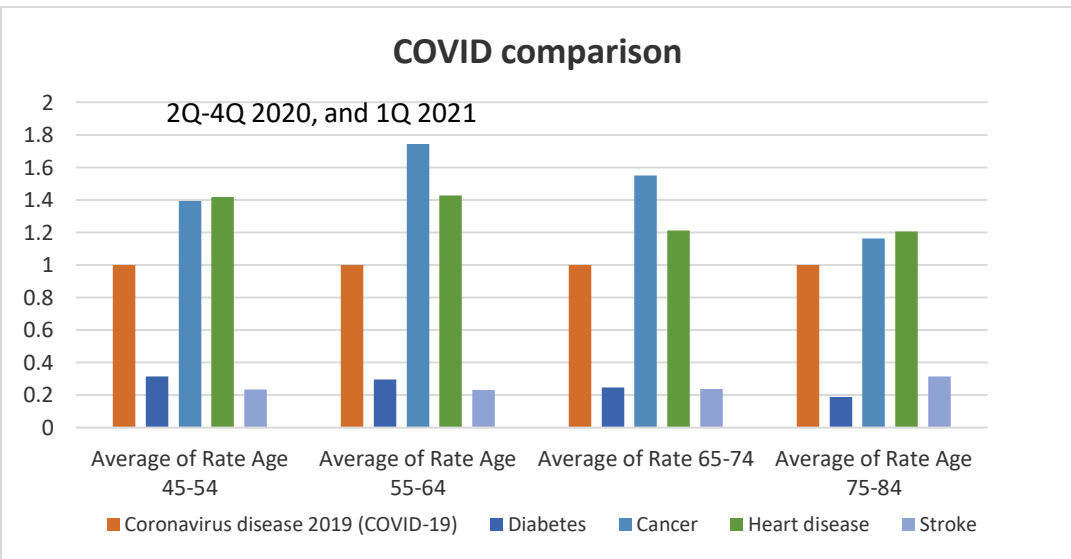
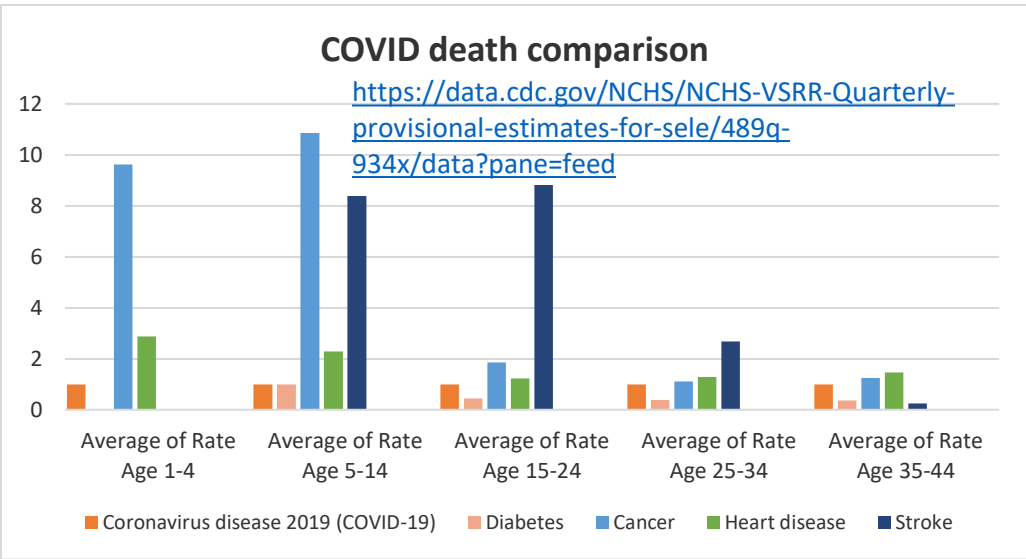
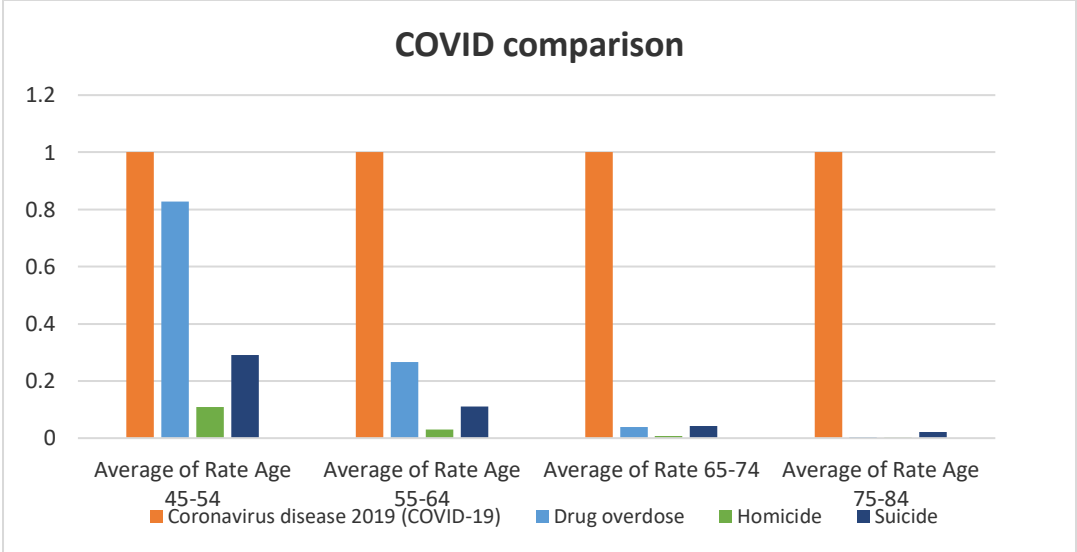
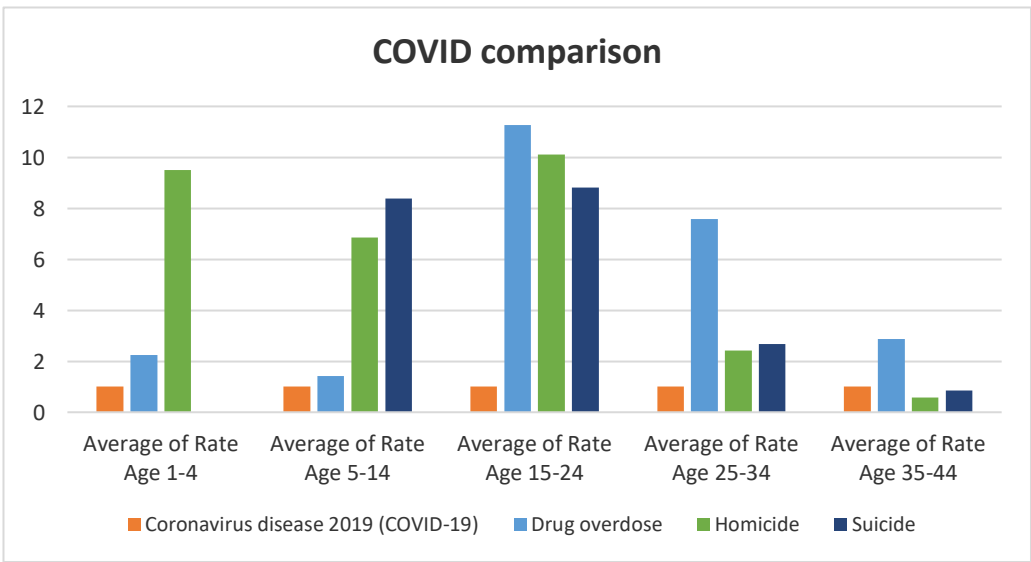


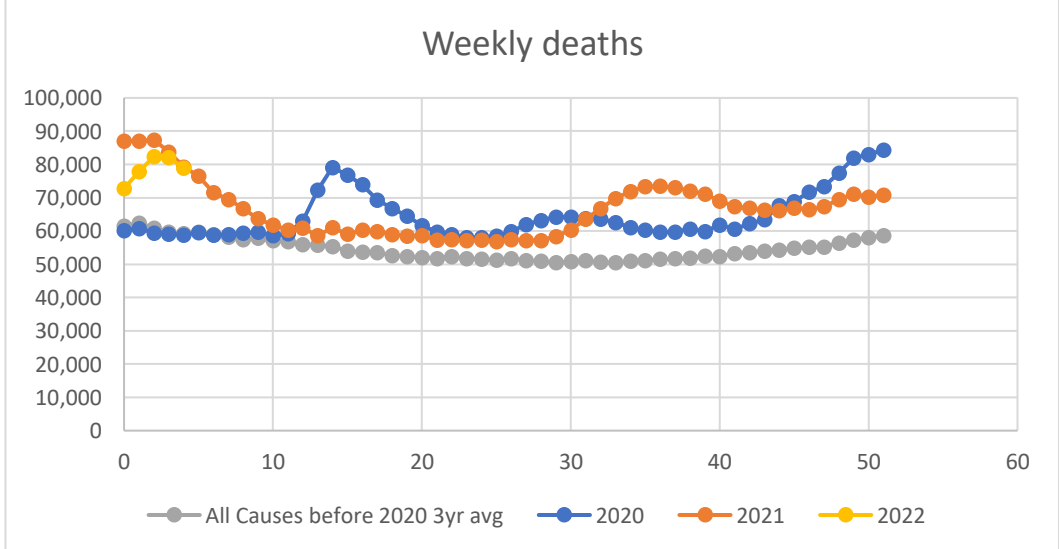
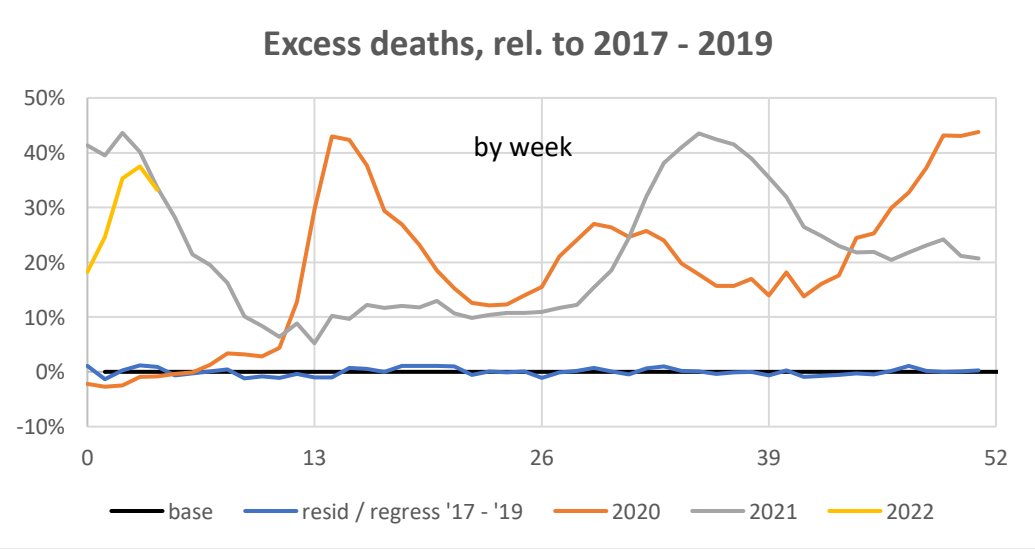
Common causes of death, normalized to COVID. Pre-Covid: 1Q2017 thru 1Q2020, Post-Covid 2Q2020 thru 1Q2021



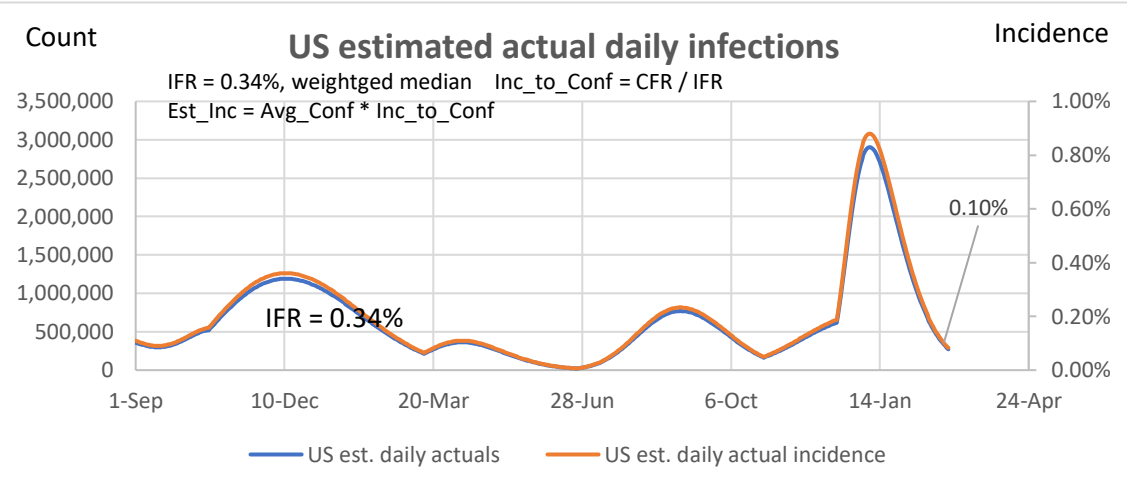
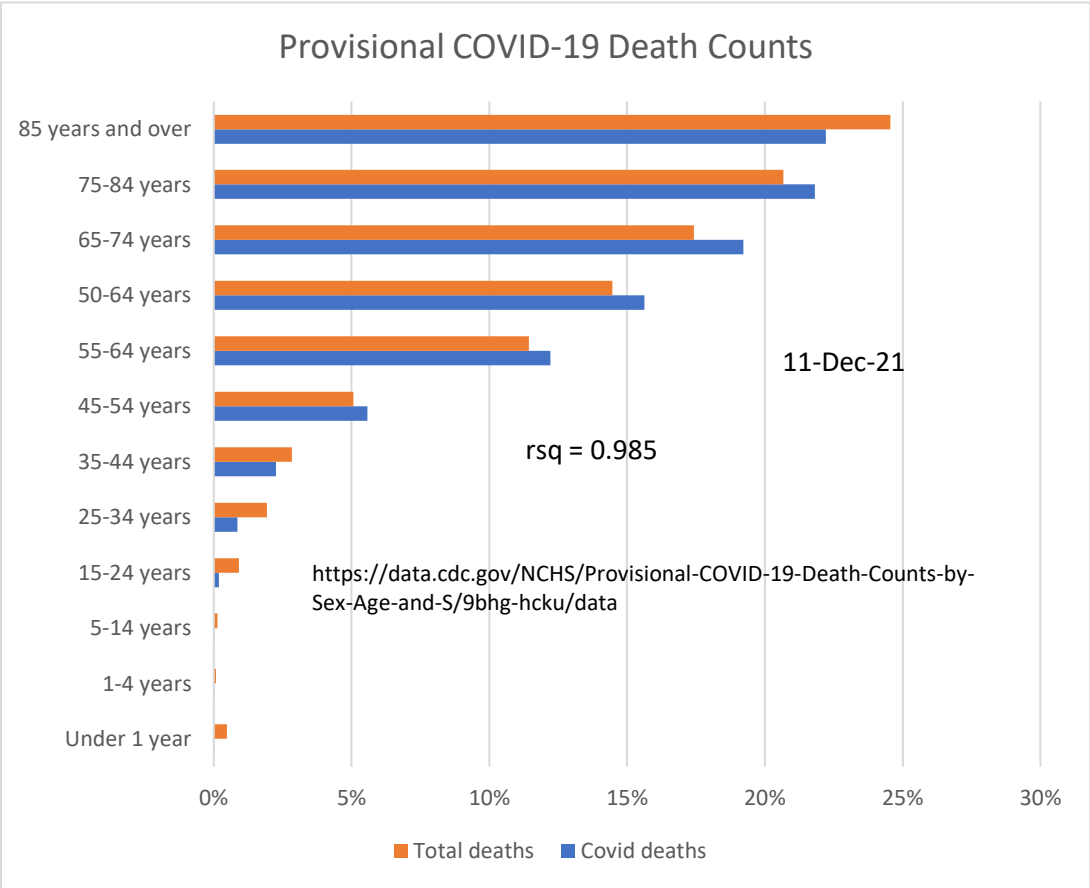
Relative effect of COVID on various age groups, and compared to cause of death. These are all relative to COVID, which is 1.0 on each of four charts



Excess deaths



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.



False Positives Demonstration

Use 0.19% as estimated daily incidence

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

95% accuracy of test		
	Positive	Negative
test pos	2.527%	4.867%
test neg	0.133%	92.473%
	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%

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.

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):

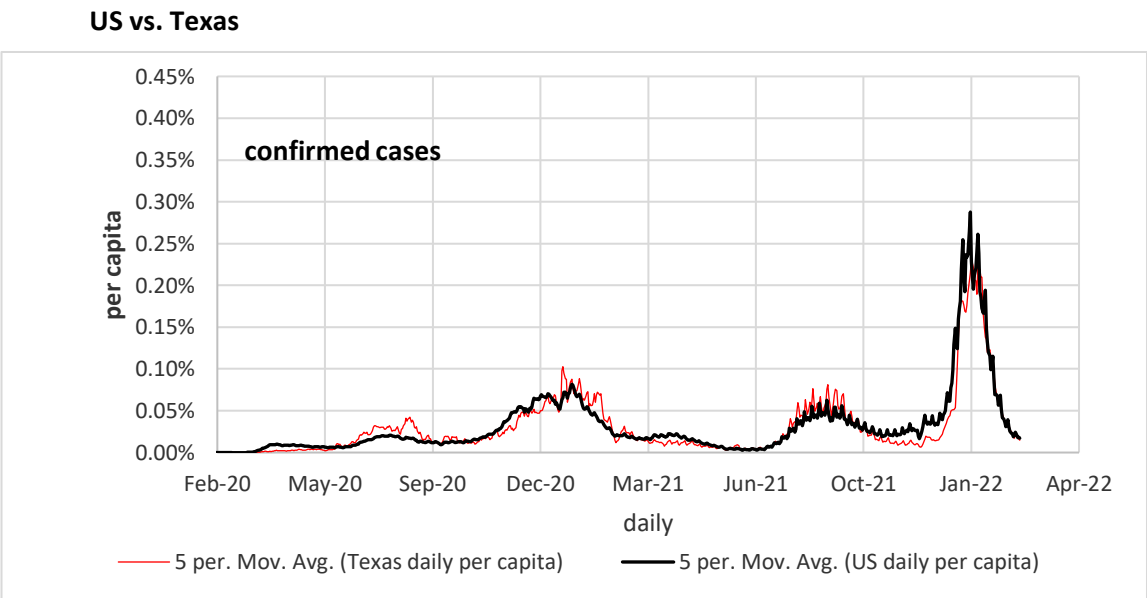
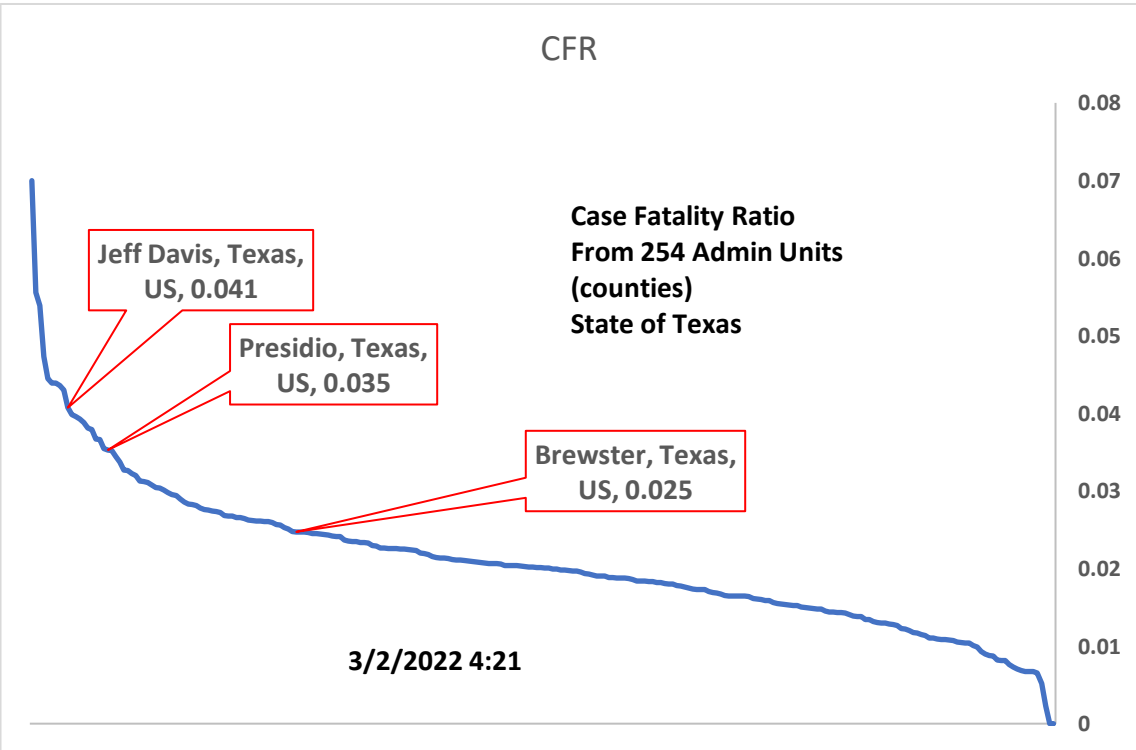
52 weeks	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	859:100,000	859:100,000	-
2021	1049:100,000	906:100,000	-
Diff.	190:100,000	47:100,000	142:100,000

3 yr average	859:100,000	Linear Year Projection	
		25% of All-Cause excess deaths not CV19	142:100,000

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

7 weeks	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	128:100,000	128:100,000	-
2022	159:100,000	125:100,000	34:100,000
Diff.	31:100,000	-3:100,000	34:100,000

3 yr average	859:100,000	Linear Year Projection	
		-11% of All-Cause excess deaths not CV19	288:100,000



Tri-Counties in Texas:

