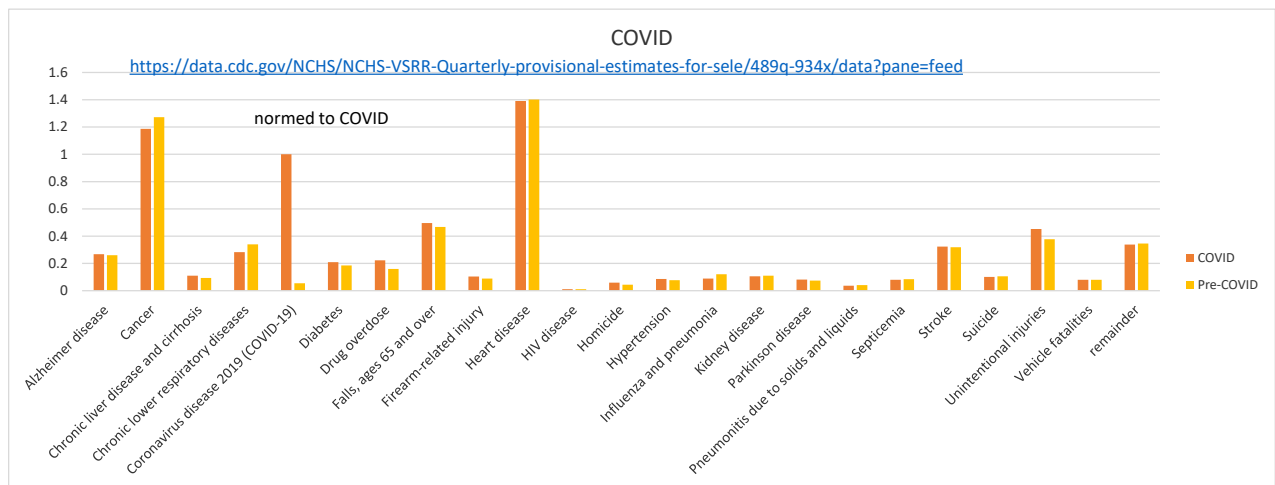
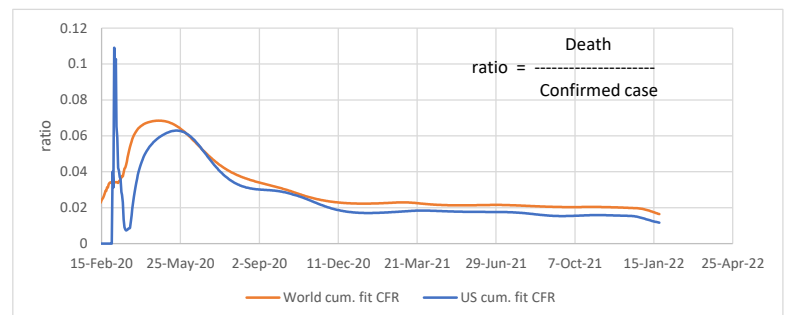
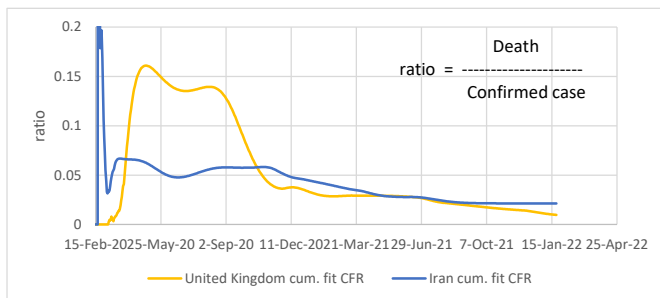


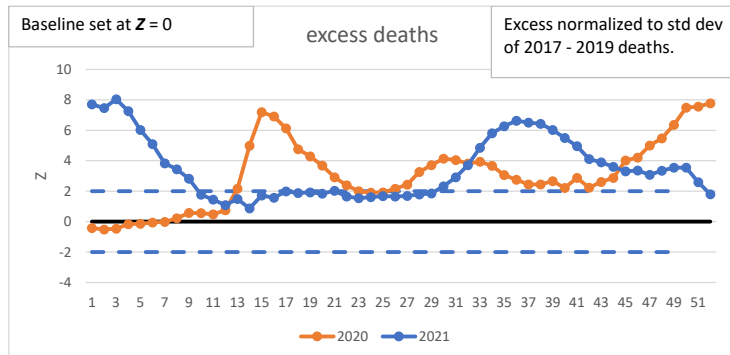
Common causes of death, normalized to COVID. Pre-Covid: 1Q2017 thru 1Q2020, Post-Covid 2Q2020 thru 1Q2021



Experimental page : ratios of curve fit deaths to curve fit confirmed cases (CFR)

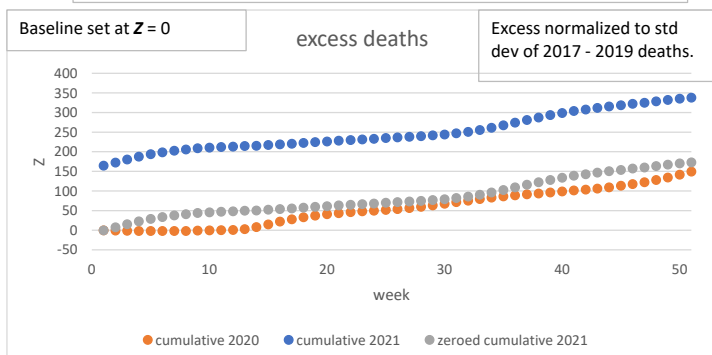


Excess deaths as a Z score:

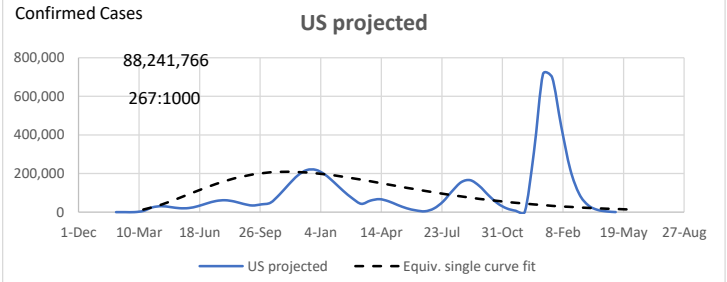


Above based on Z score of two standard deviation from 2017-2019. What follows is cumulative plot of same.

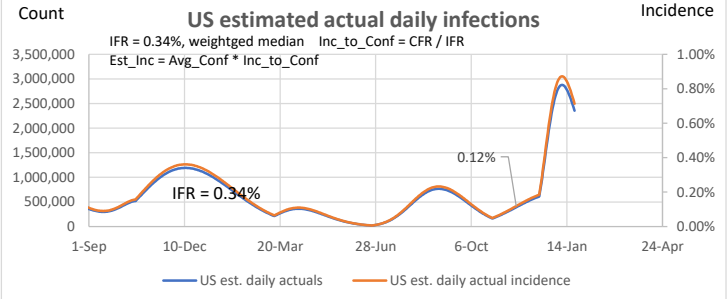
Data in recent weeks are incomplete. Only 60% of death records are submitted to NCHS within 10 days of the date of death, and completeness varies by jurisdiction. Data are not weighted and counts are likely



Confirmed Cases



Count



False Positives Demonstration

Use 0.15% as estimated daily incidence

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

95% accuracy of test

	Positive	Negative
test pos	1.995%	4.895%
test neg	0.105%	93.005%
	2.100%	97.900%

False pos. is more than half of total positives.

TRUE +	1.995%/6.89%	29.0%
FALSE +	4.895%/6.89%	71.0%
Total		100.00%

0.15% X 14 = 2.100%

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%

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	1042:100,000	900:100,000	-
Diff.	183:100,000	41:100,000	142:100,000

3 yr average
859:100,000

23% of All-Cause excess deaths not CV19

Linear Year Projection
142:100,000

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

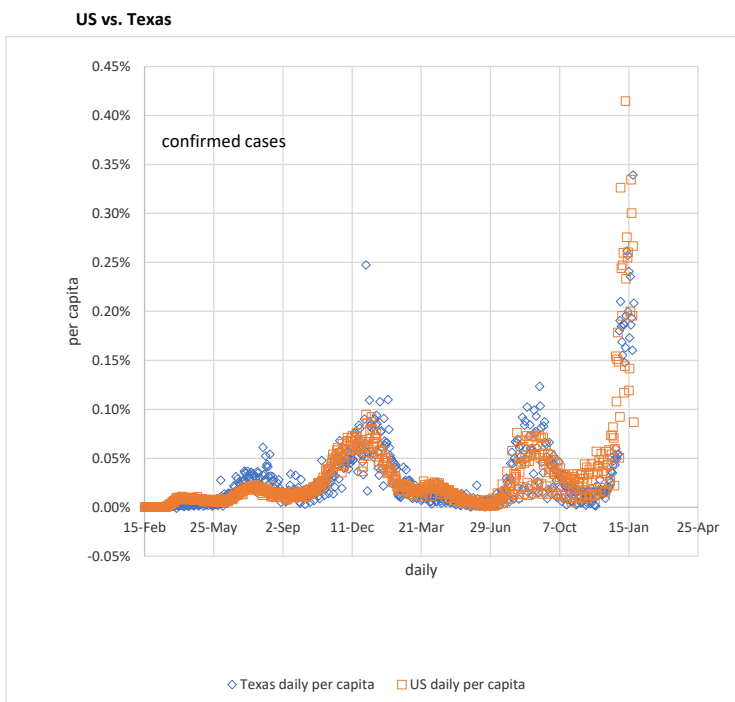
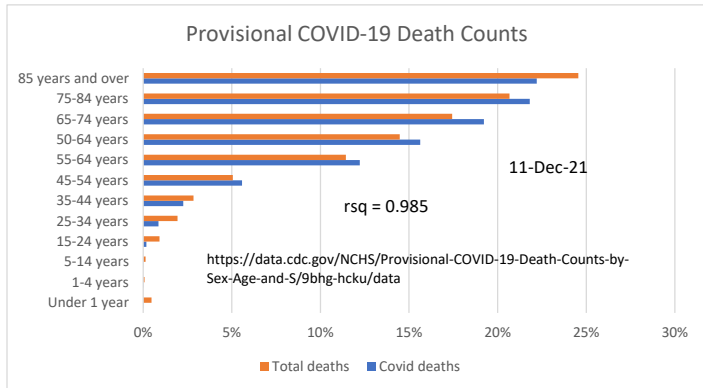
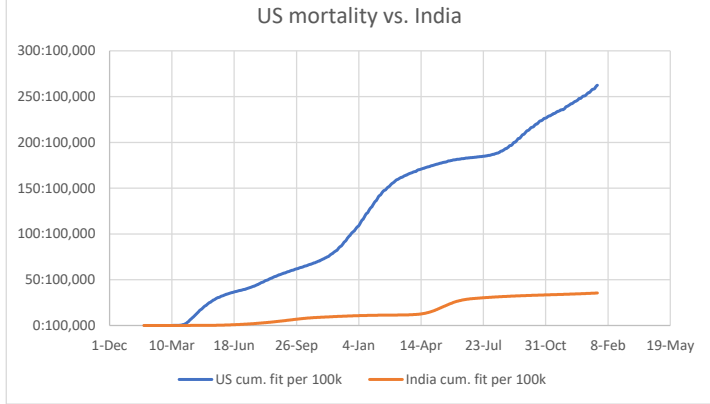
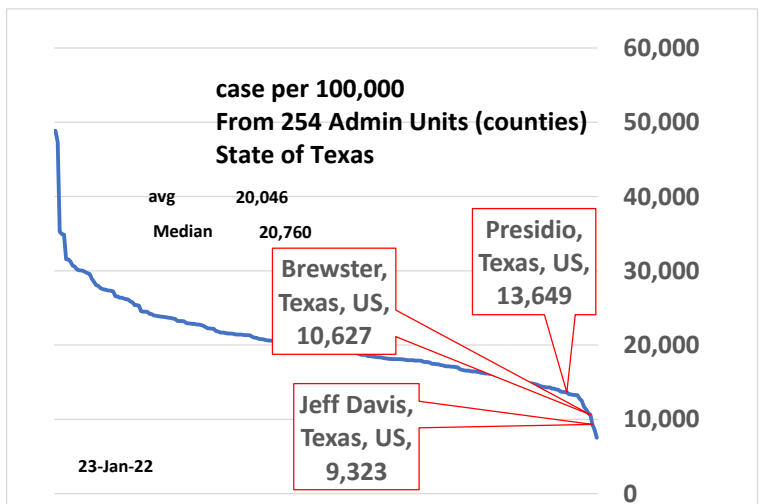
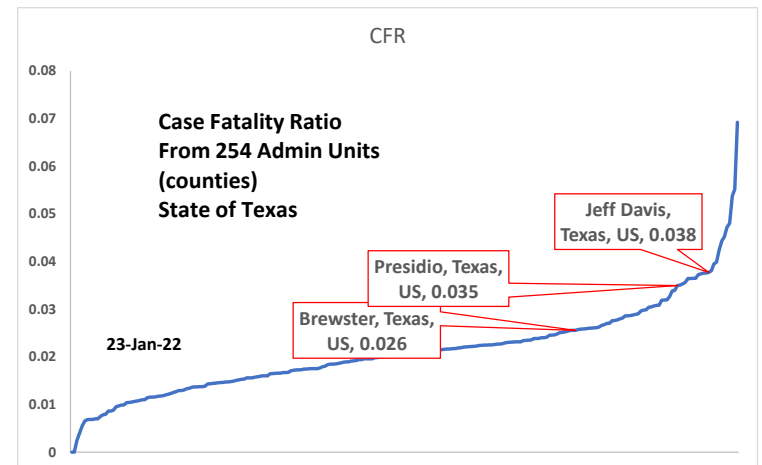
2 weeks	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	17:100,000	17:100,000	-
2022	36:100,000	30:100,000	-
Diff.	19:100,000	13:100,000	6:100,000

3 yr average
859:100,000

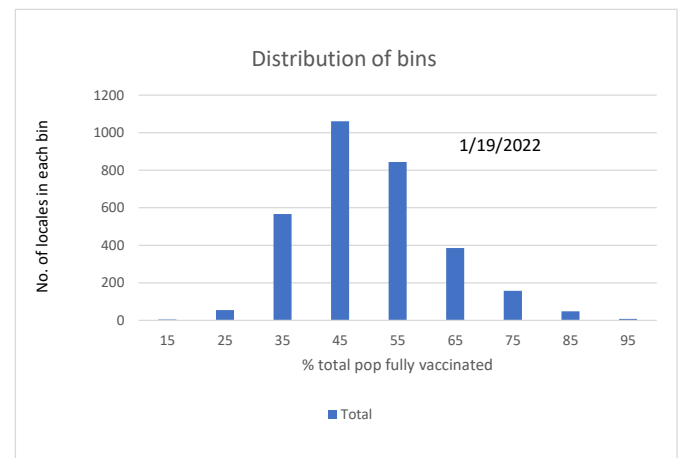
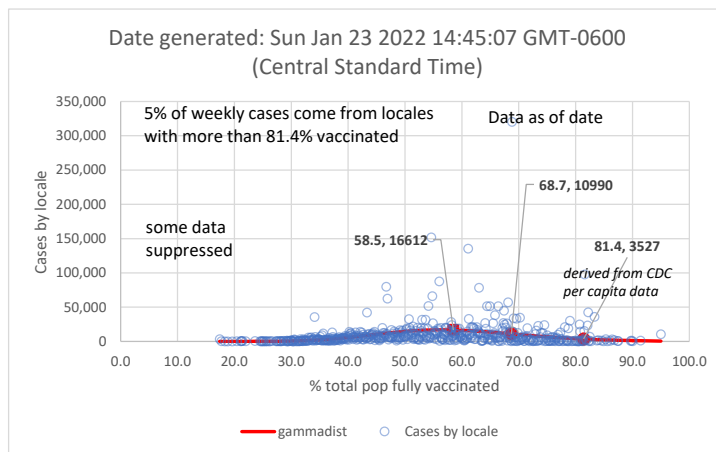
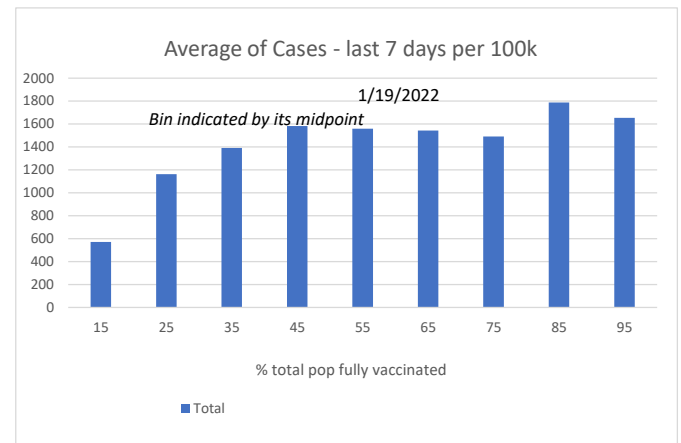
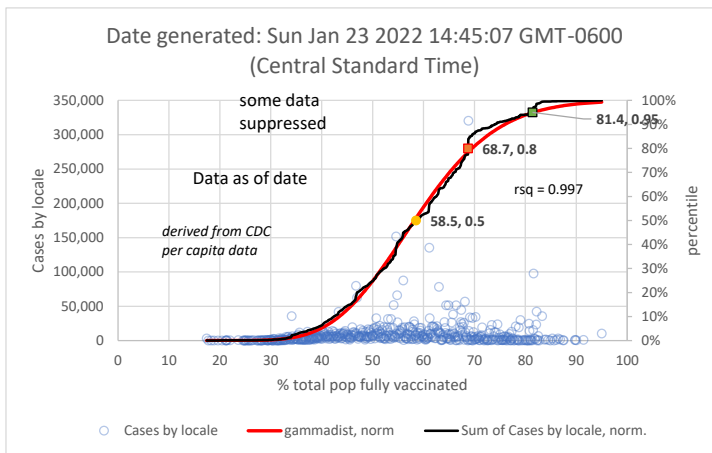
68% of All-Cause excess deaths not CV19

Linear Year Projection
311:100,000

Tri-Counties in Texas:



Vaccination, % total pop vaccinated, and cases per 100k, USA



<https://covid.cdc.gov/covid-data-tracker/#vaccination-case-rate>