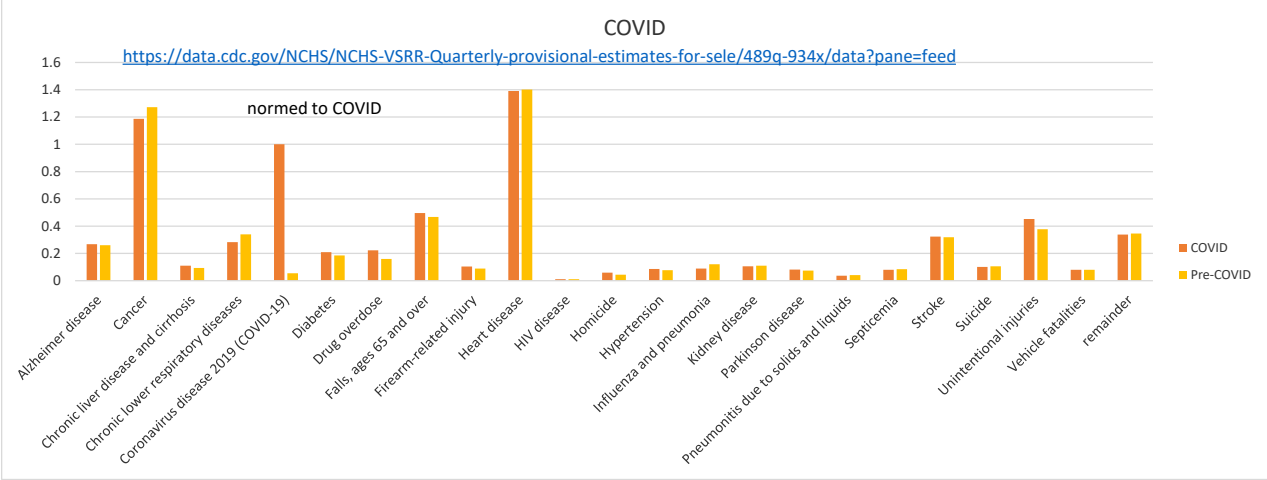
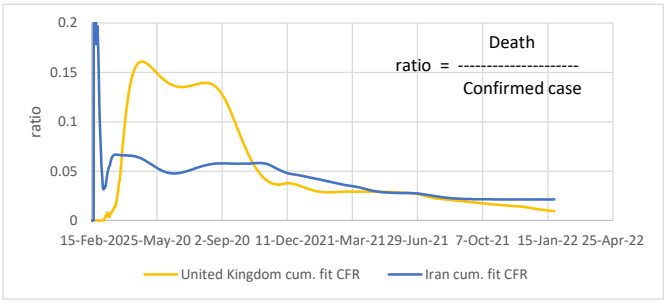
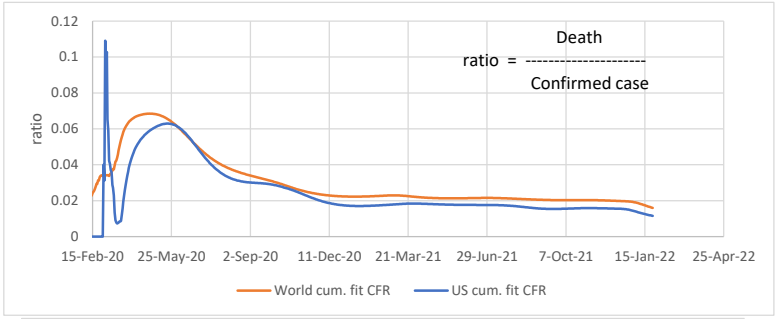
Common causes of death, normalized to COVID. Pre-Covid: 1Q2017 thru 1Q2020, Post-Covid 2Q2020 thru 1Q2021

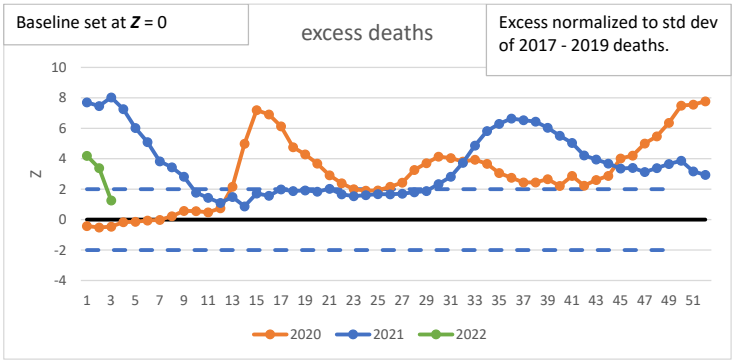


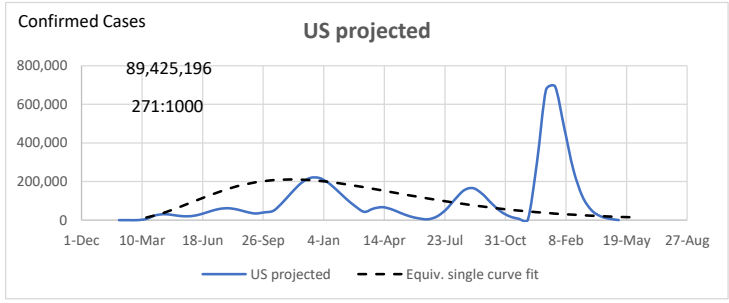
Experimental page : ratios of curve fit deaths to curve fit confirmed cases (CFR)





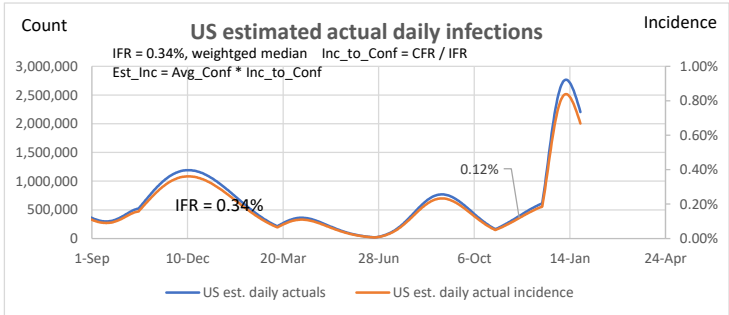
Excess deaths as a Z score:

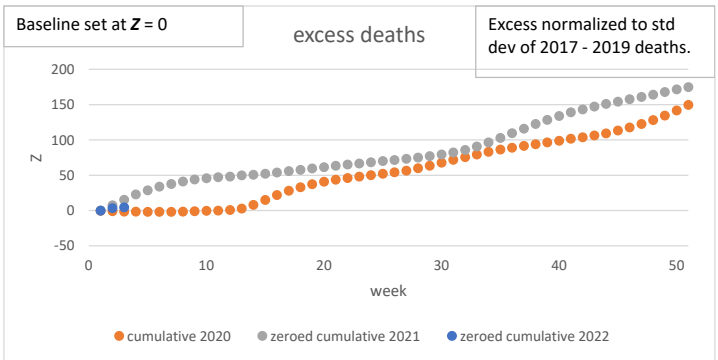




Above based on Z score of two standard deviation from 2017-2019. What follows is cumulative plot of same.

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





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

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

0.15% X 14 = 2.100%

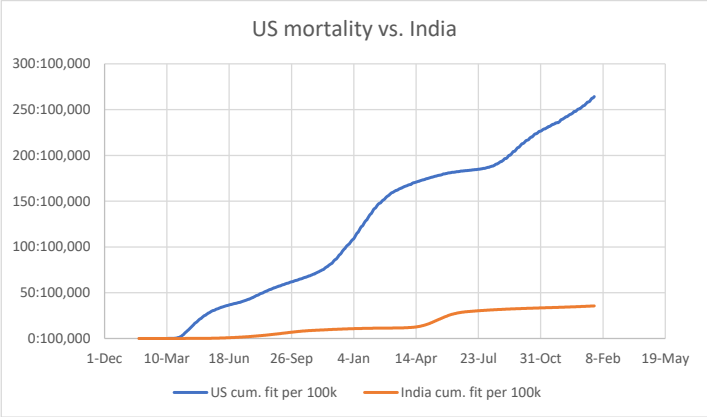
	Positive	Negative	
test pos	1.995%	4.895%	6.89%
test neg	0.105%	93.005%	93.11%
	2.100%	97.900%	100.00%

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%

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 specifity 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/xkkf-xrst/data

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

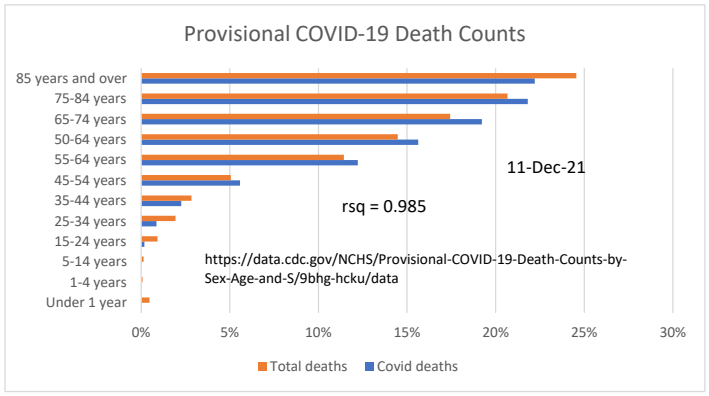
52 weeks	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	859:100,000	859:100,000	-
2021	1045:100,000	903:100,000	-
Diff.	186:100,000	44:100,000	142:100,000

3 yr average		Linear Year Projection
859:100,000	24% of All-Cause excess deaths not CV19	142:100,000

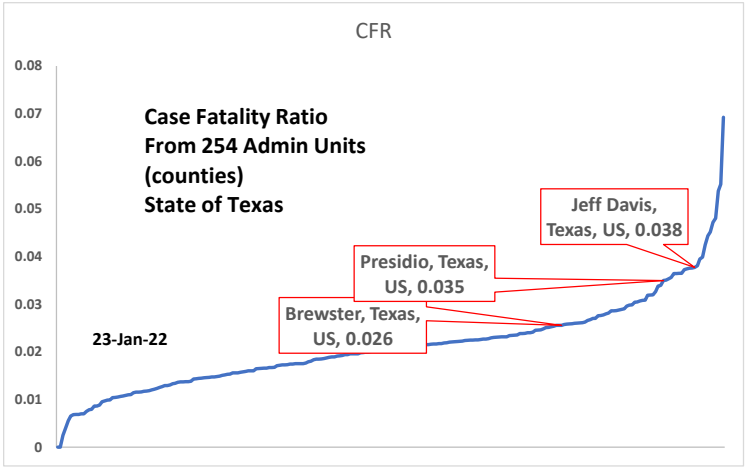
USA Excess Deaths to date (2022, from CDC data):

3 weeks	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	34:100,000	34:100,000	-
2022	58:100,000	48:100,000	-
Diff.	25:100,000	14:100,000	11:100,000

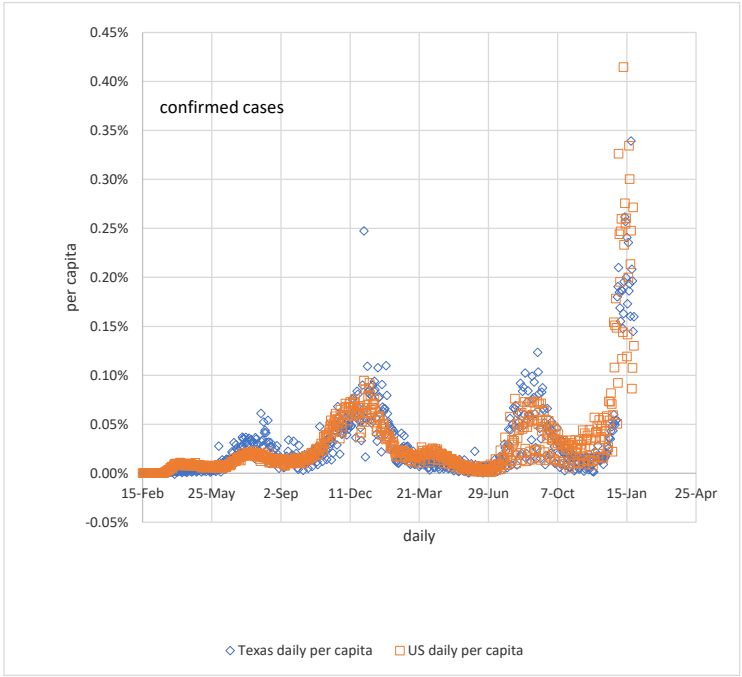
3 yr average		Linear Year Projection
859:100,000	56% of All-Cause excess deaths not CV19	275:100,000

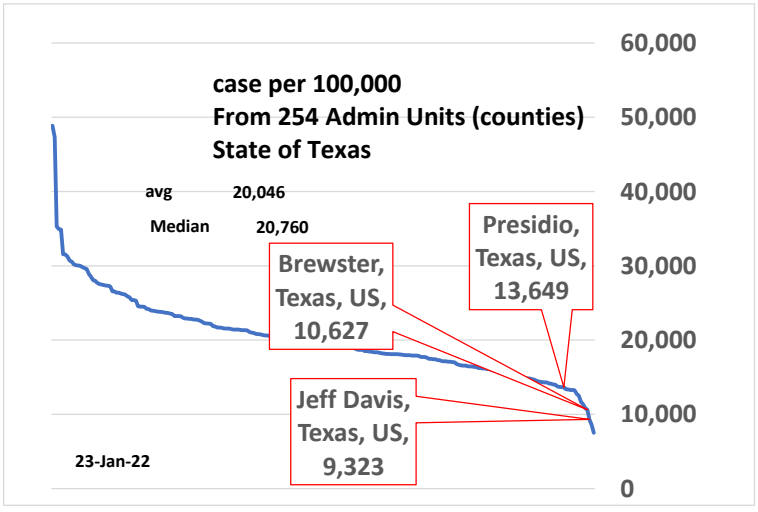


Tri-Counties in Texas:

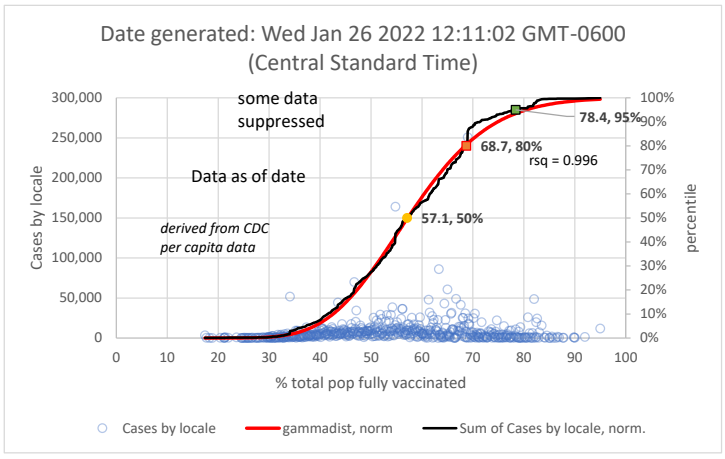


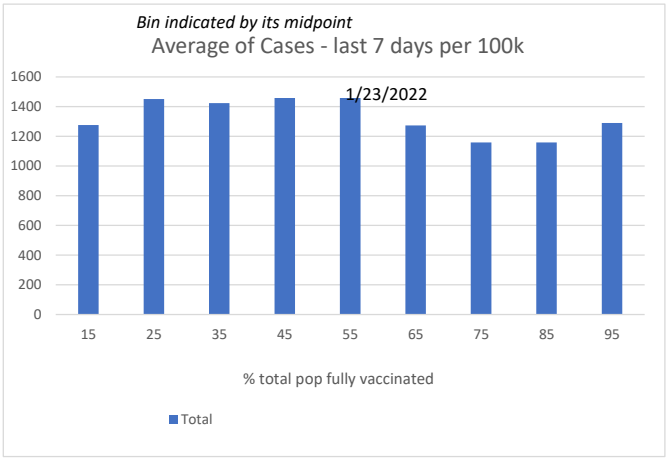
US vs. Texas

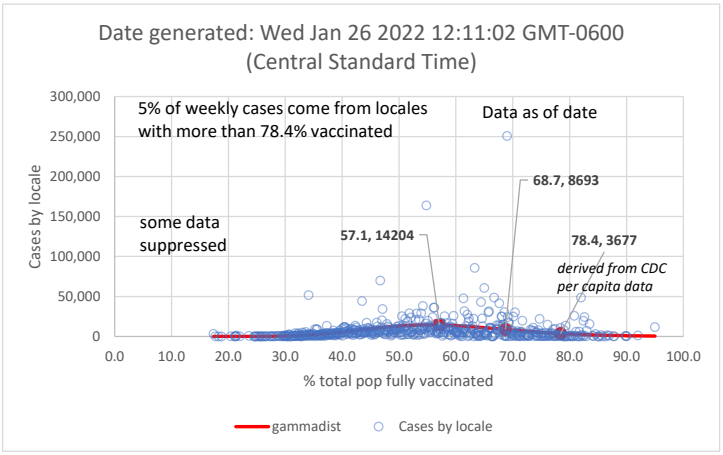


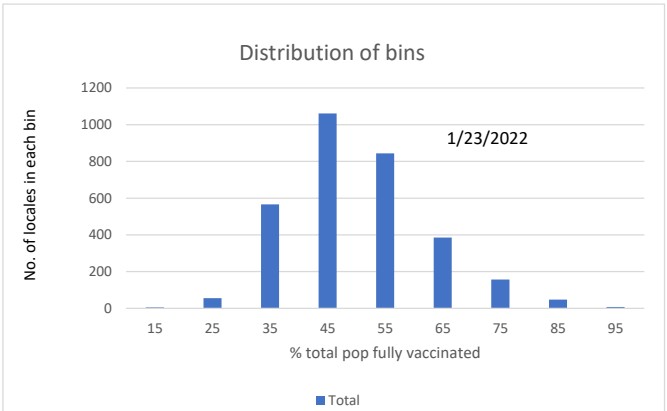


Vaccination, % total pop vaccinated, and cases per 100k, USA









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