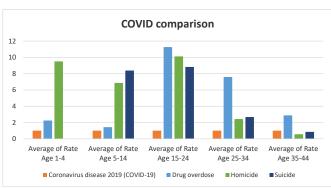
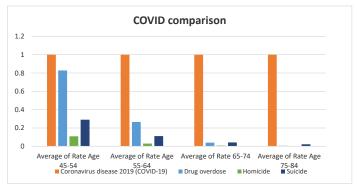
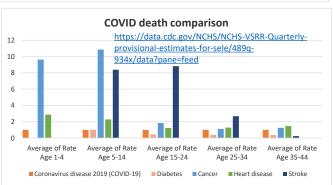
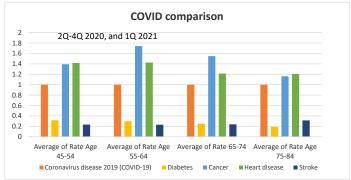


# Relative effect of COVID on various age groups, and compared to cause of death. These are all relative to COVID, which is 1.0 on each of four charts

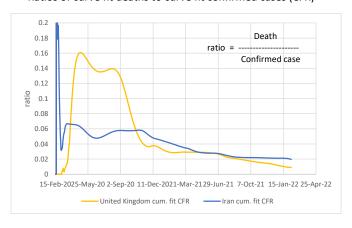


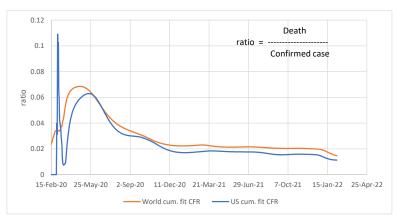






# Ratios of curve fit deaths to curve fit confirmed cases (CFR)



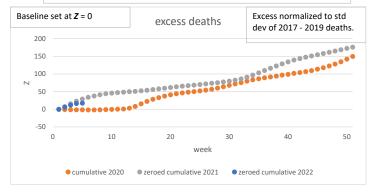


#### Excess deaths as a Z score:

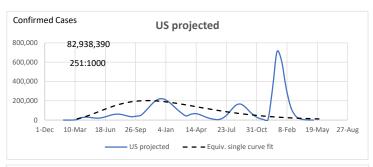


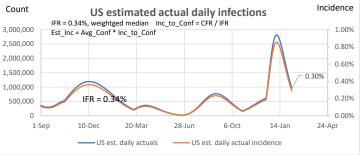
Above based on  $\,{\rm Z}$  score of two standard deviation from 2017-2019. What follows is cumulative plot of same.

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



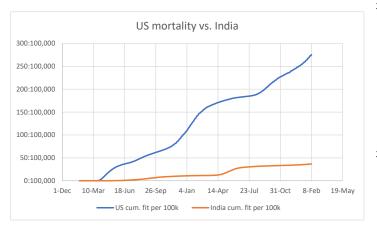


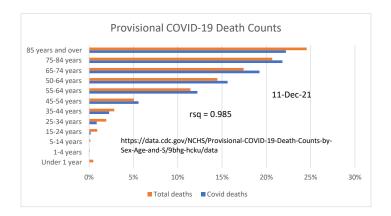
#### False Positives Demonstration

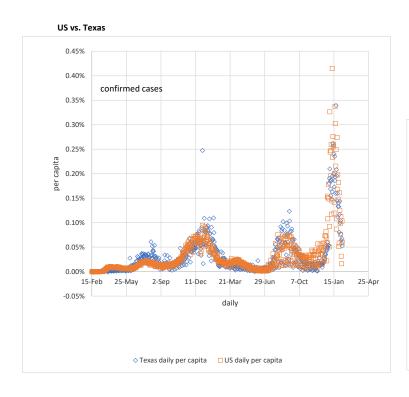
Use 0.30% as estimated daily incidence

ose 0.50% as estimated daily incidence				
Prevalence estimated as avg. infected period of 2 weeks X incidence				
95% accuracy of test		0.30% X 14 = 4.200%		
	Positive	Negative		<u>Sensitivity</u>
test pos	3.990%	4.790%	8.78%	Probability of detection
test neg	0.210%	91.010%	91.22%	where condition exists
	4.200%	95.800%	100.00%	True + / (True + & False -)
				95%
False pos. is more than half of total positives.			Specificity	
TRUE +	3.99%/8.78	3%	45.4%	Probability of not detecting where
FALSE + 4.79%/8.78%		54.6%	condition doesn't exist	
Total			100.00%	True - / (True - & False +)
				95%
		Example only	ı: sensitivitv aı	nd specifity not necessarily equal.

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			
$\underline{https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data}$				

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

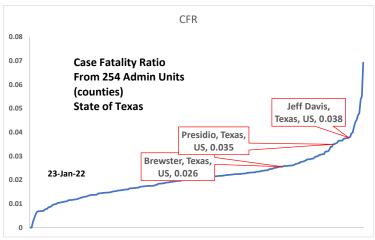
	52 weeks	All Cause	All Cause, excl. CV19	CV19
3	r average before 2020	859:100,000	859:100,000	-
Γ	2021	1046:100,000	904:100,000	-
Γ	Diff.	187:100,000	45:100,000	142:100,000
3	3 yr average			Linear Year Projection
859:100,000		24% of All-Caus	24% of All-Cause excess deaths not CV19	

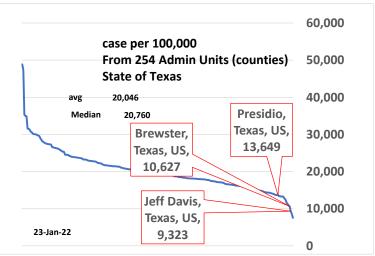
#### USA Excess Deaths to date (2022, from CDC data):

	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

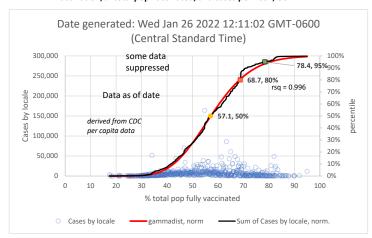
3 yr average	Linear	Year Projection
859:100,000	-72% of All-Cause excess deaths not CV19	281:100,000

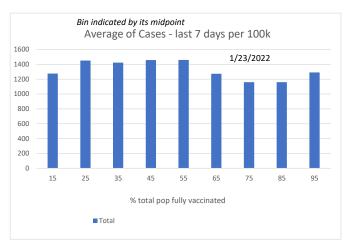
### Tri-Counties in Texas:

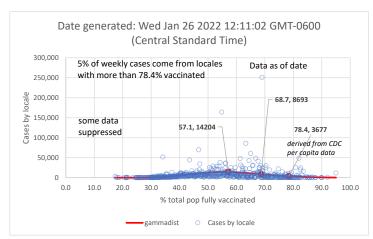


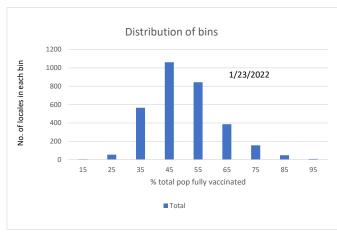


#### Vaccination, % total pop vaccinated, and cases per 100k, USA









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