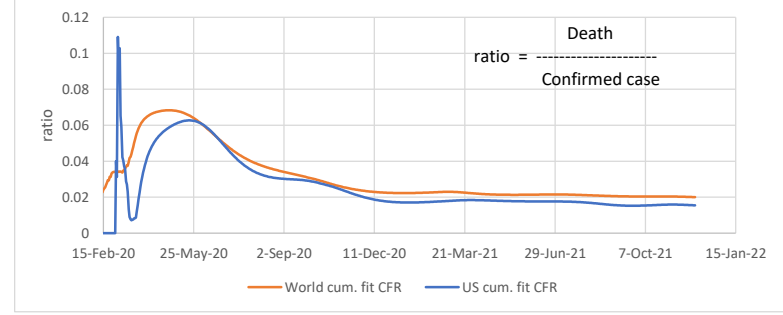
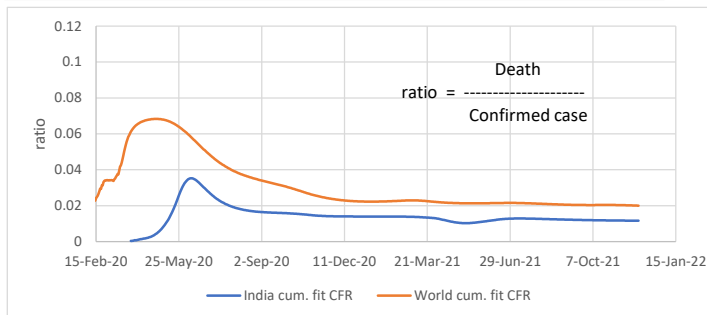
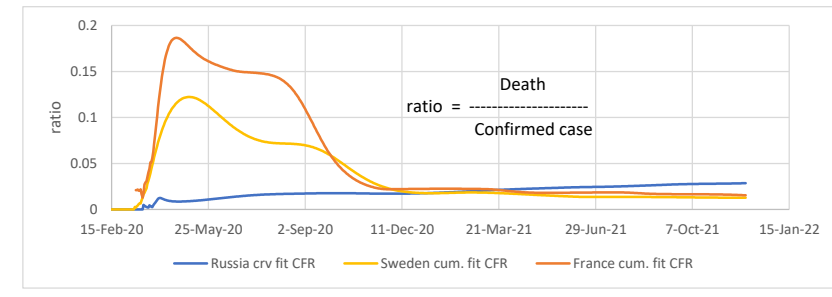
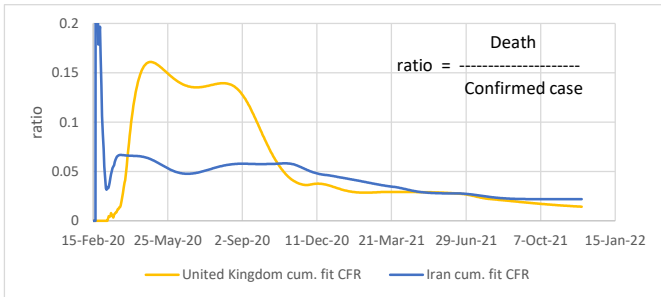
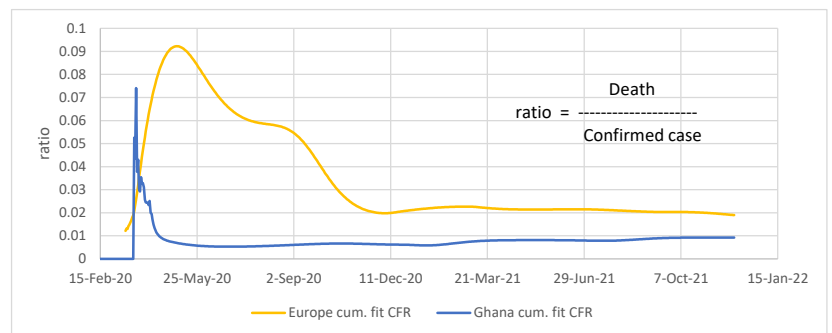
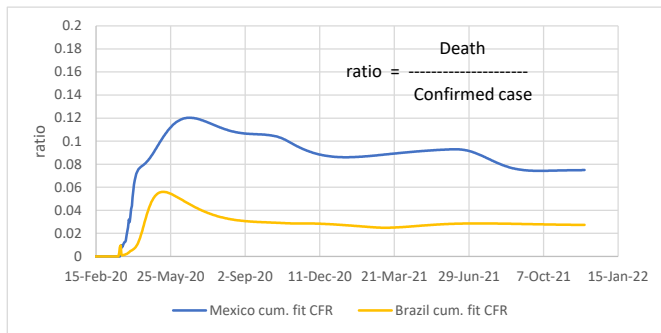


Experimental page : ratios of curve fit deaths to curve fit confirmed cases (CFR)

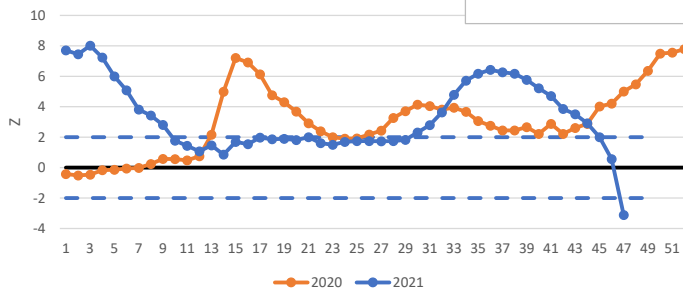


Excess deaths as a Z score:

Baseline set at Z = 0

excess deaths

Excess normalized to std dev of 2017 - 2019 deaths.



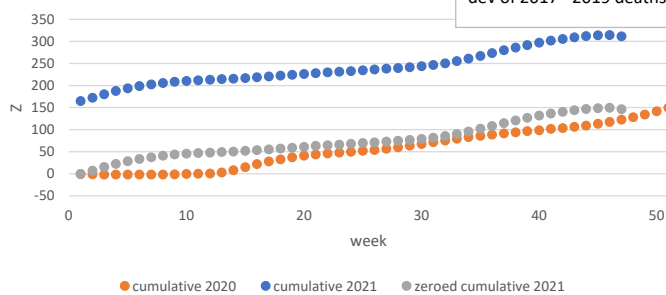
Above based on Z score of two standard deviation from 2017-2019. What follows is cumulative plot of same.

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

Baseline set at Z = 0

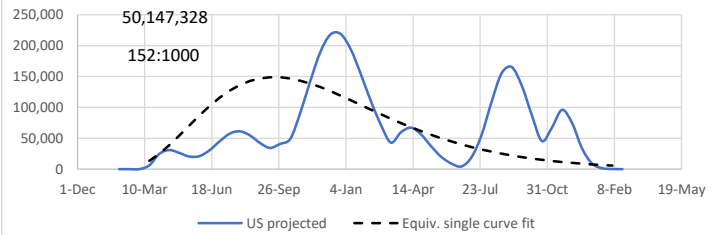
excess deaths

Excess normalized to std dev of 2017 - 2019 deaths.



Confirmed Cases

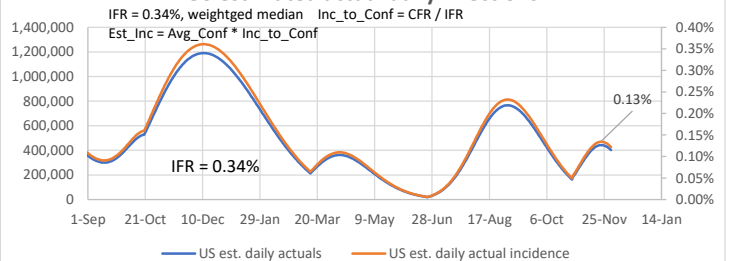
US projected



Count

US estimated actual daily infections

Incidence



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%

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%

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%

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/xkkf-xrst/data	

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

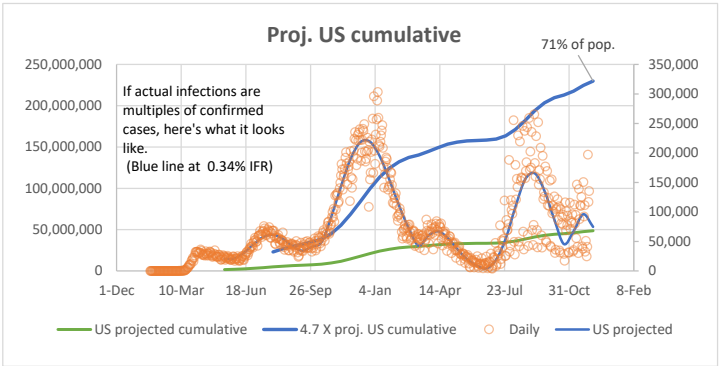
47 weeks	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	775:100,000	775:100,000	-
2021	927:100,000	800:100,000	-
Diff.	152:100,000	25:100,000	127:100,000

3 yr average	859:100,000
17% of All-Cause excess deaths are non-CV19	
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data	

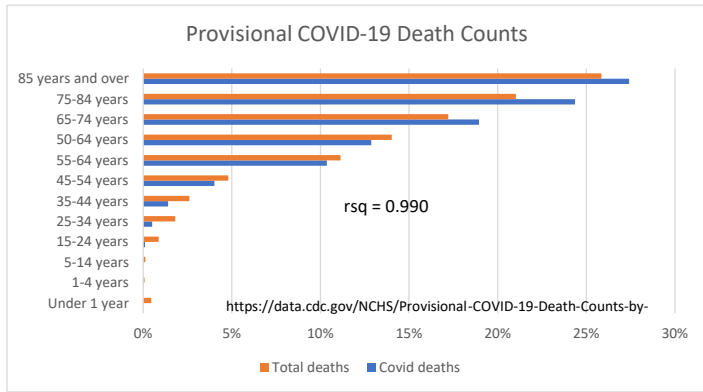
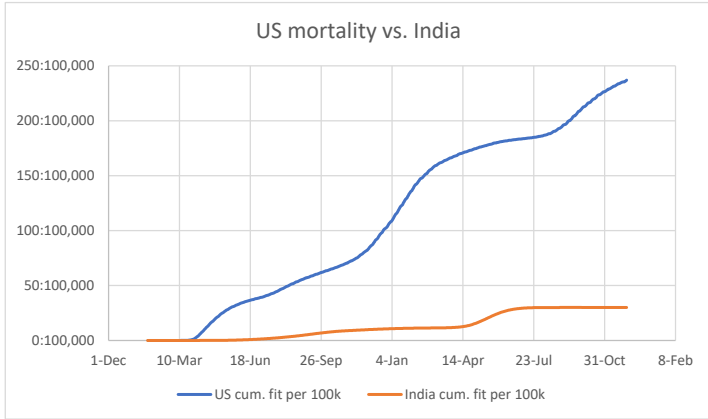
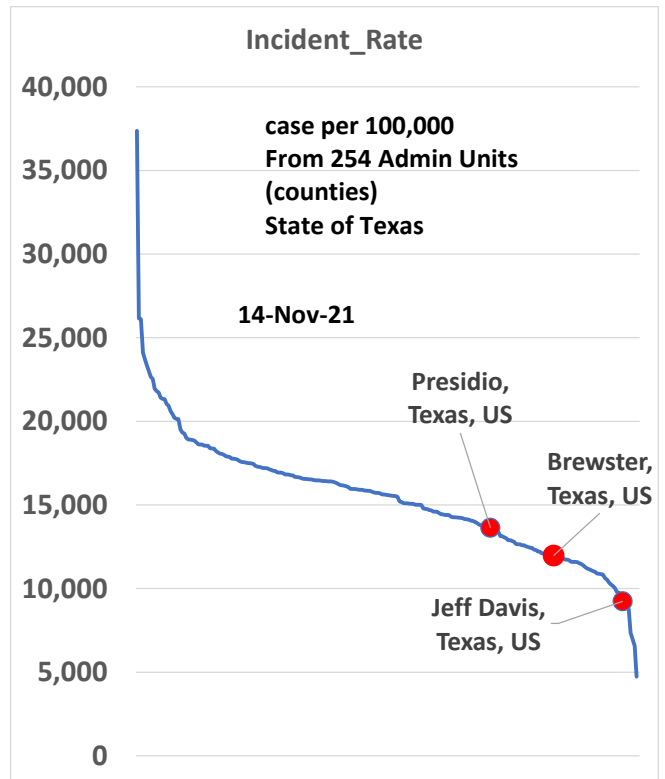
$$K = 0.318 \quad R_o = \exp(K/\gamma) = 6.42 \quad R = 84\% \quad \leq \text{Herd immunity}$$

$$\gamma = 0.171 \quad R > 1 - 1/R_o = 3.04 \quad 67\%$$

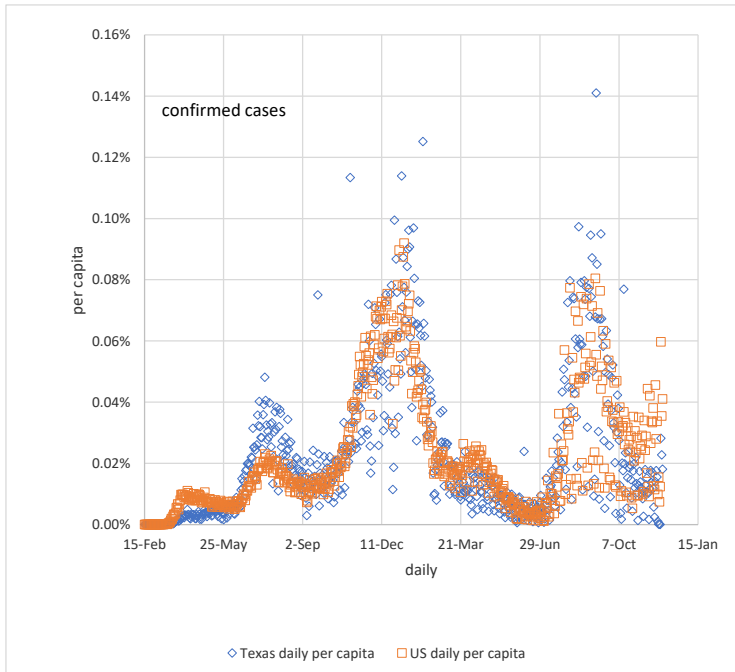
R is recovered variable.



Tri-Counties in Texas:



US vs. Texas





<https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-jte6/data>