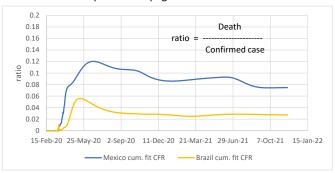
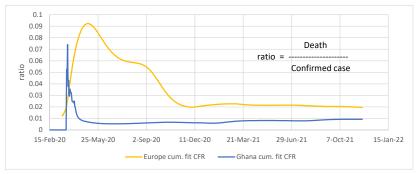
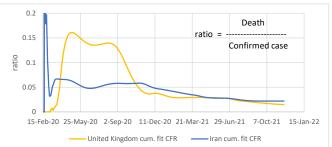
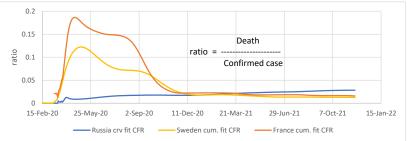
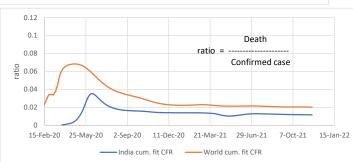
### Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

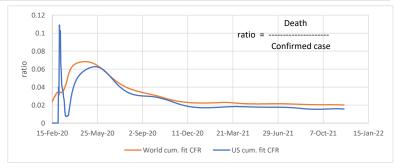




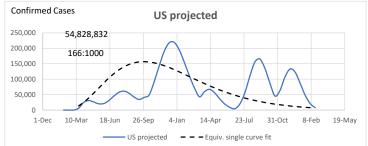


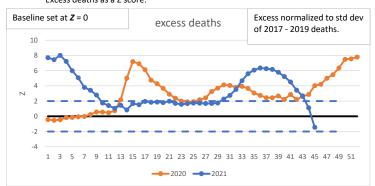


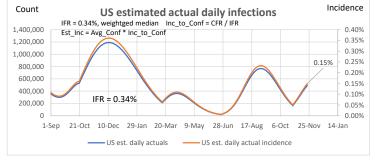




# Excess deaths as a Z score:



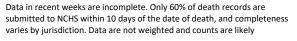




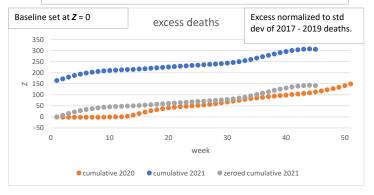
Above based on  $\,$  Z score of two standard deviation from 2017-2019. What follows is cumulative plot of same.

#### False Positives Demonstration

Use 0.15% as estimated daily incidence



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

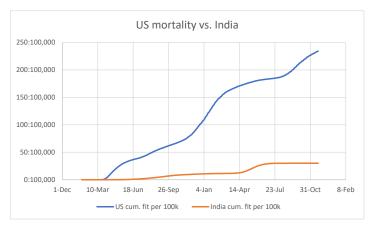


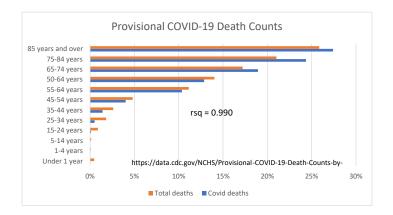
	Positive	Negative	
test pos	1.995%	4.895%	6.89%
test neg	0.105%	93.005%	93.11%
	2.100%	97.900%	100.00%

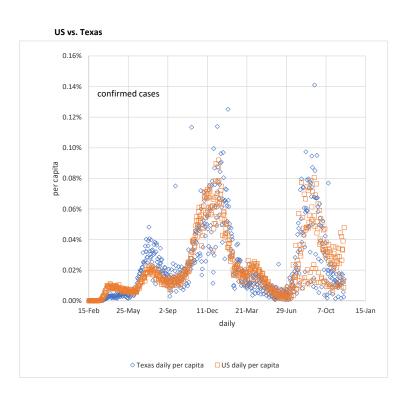
95% accuracy of test

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%	

0.15% X 14 = 2.100%







#### 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-yrst/data				

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

	45 weeks	All Cause	All Cause, excl. CV19	CV19
3	yr average before 2020	741:100,000	741:100,000	-
	2021	889:100,000	766:100,000	-
	Diff.	148:100,000	25:100,000	123:100,000

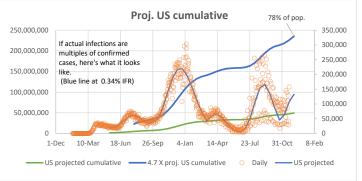
	3 yr average	
	859:100,000	17% of All-Cause excess deaths are non-CV19
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data		

K = 0.318  $R_o$ : R:

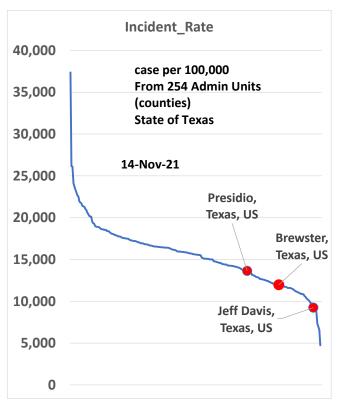
gamma = 0.171  $R_o = \exp(K/\text{gamma}) = 6.42$  84%

gamma = 0.286  $R > 1 - 1/R_o = 3.04$  67%

# R is recovered variable.



## Tri-Counties in Texas:





 $\underline{https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-jte6/data}$