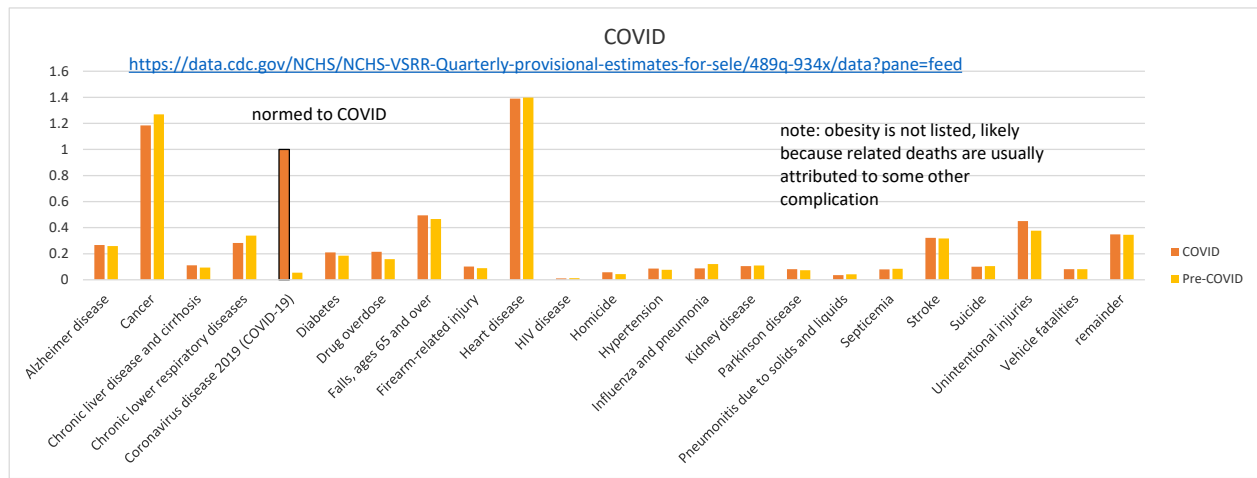
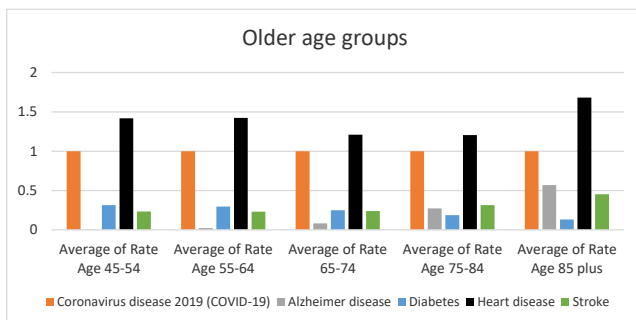
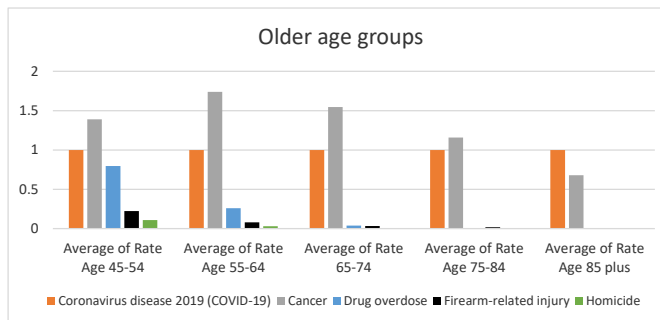
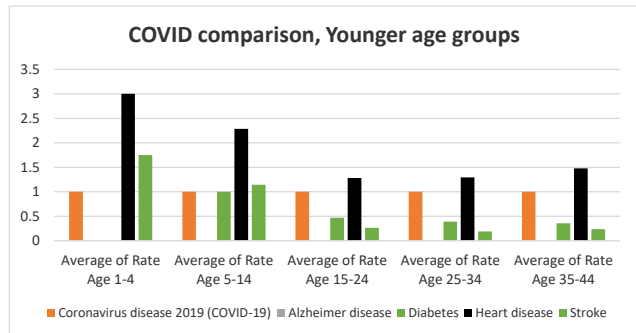
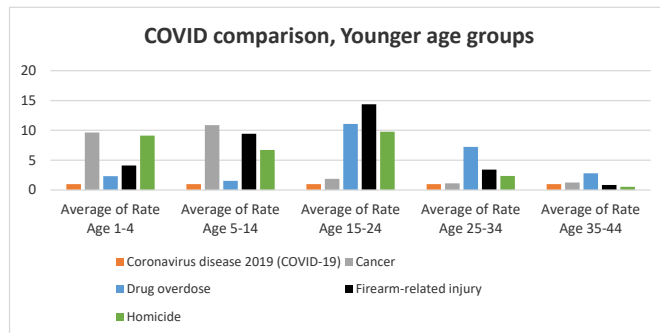


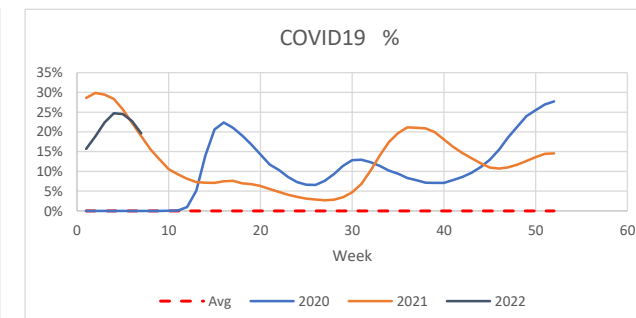
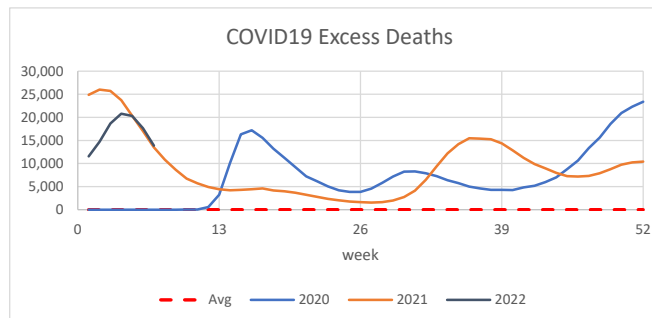
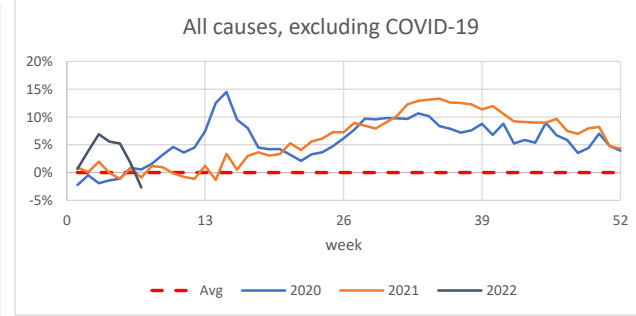
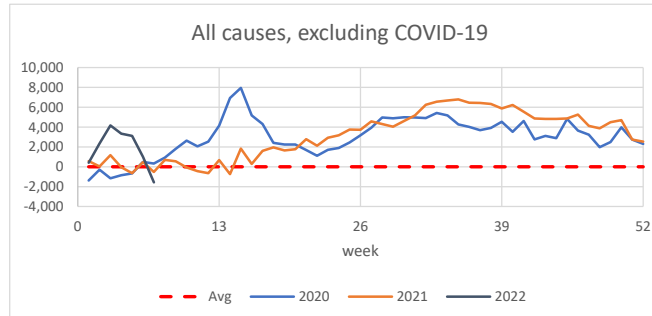
Common causes of death, normalized to COVID. Pre-Covid: 1Q2017 thru 1Q2020, Post-Covid 2Q2020 thru 1Q2021, USA



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, USA



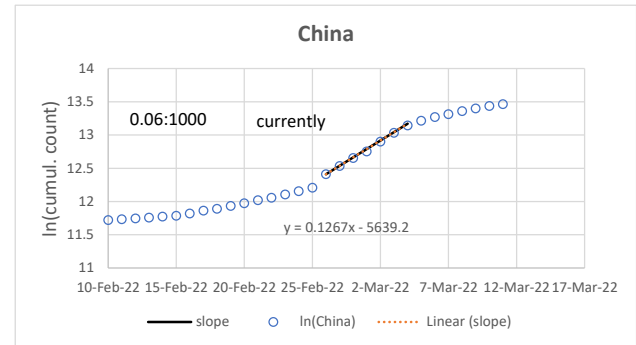
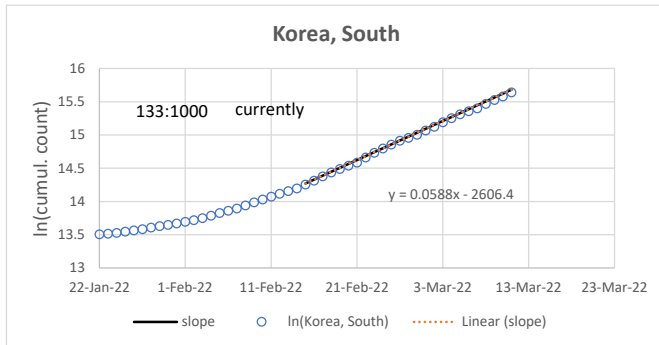
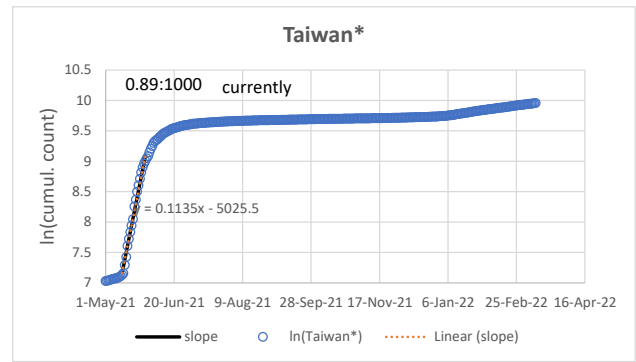
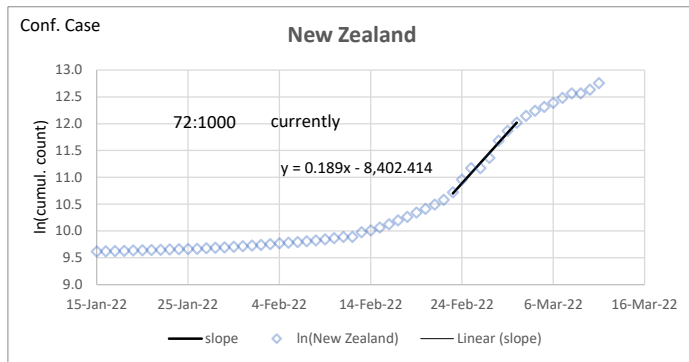
Excess deaths



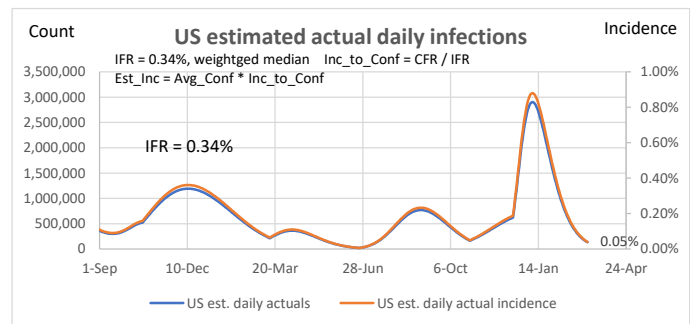
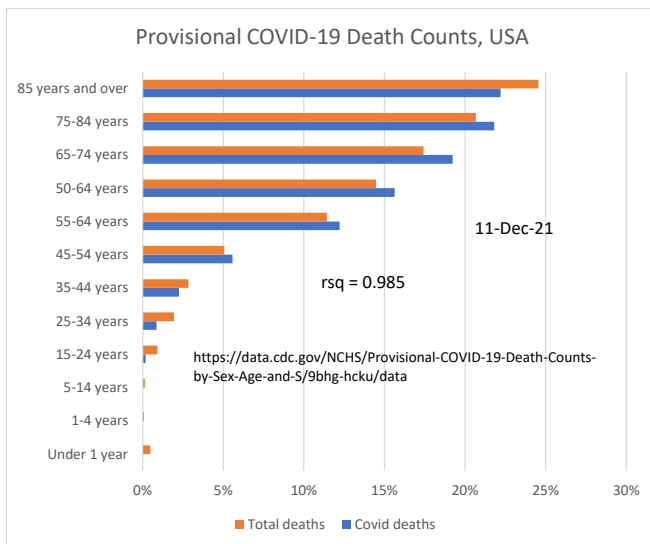
Data in recent weeks are incomplete. Only 60% of death records are submitted to NCHS within 10 days of the date of death, and completeness varies by jurisdiction. Data are not weighted and counts are likely underreported. Therefore, most recent two weeks CDC data not shown.

## Recent Exponential Behavior

(Texas's exponential value (slope) was 0.313, as a point of comparison)



<https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkfxrst/data>



### False Positives Demonstration

Use 0.19% as estimated daily incidence

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

95% accuracy of test

	Positive	Negative
test pos	2.527%	4.867%
test neg	0.133%	92.473%
	2.660%	97.340%

0.19% X 14 = 2.660%

**Sensitivity**  
Probability of detection where condition exists  
 $\text{True} + / (\text{True} + \& \text{False} -)$   
95%

False pos. is more than half of total positives.

TRUE + 2.527%/7.39%

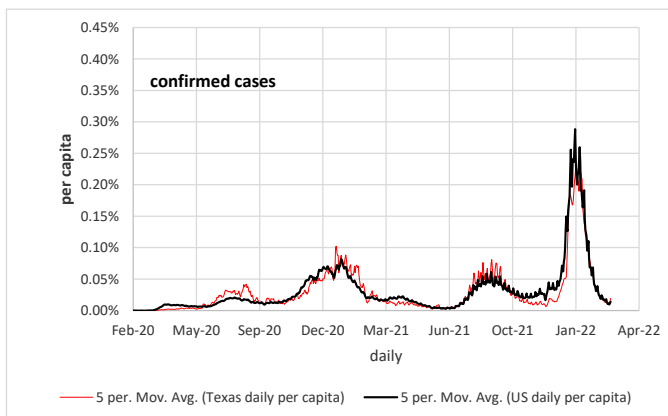
FALSE + 4.867%/7.39%

Total -----

**Specificity**  
Probability of not detecting where condition doesn't exist  
 $\text{True} - / (\text{True} - \& \text{False} +)$   
95%

Example only; sensitivity and specificity not necessarily equal.

## US vs. Texas



### 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

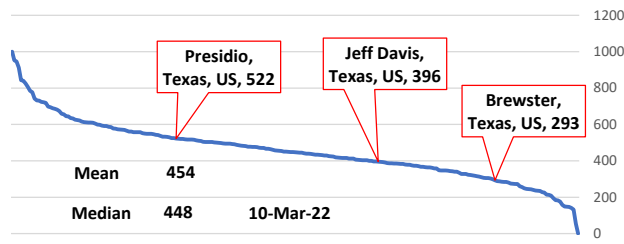
29% of All-Cause excess deaths are non-CV19

### USA Excess Deaths, 2021 (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	-
2021	1049:100,000	907:100,000	-
Diff.	190:100,000	48:100,000	143:100,000

25% of All-Cause excess deaths are non-CV19

## COVID Deaths per 100,000, by 254 Texas Counties



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

Week 9	All Cause	All Cause, excl. CV19	CV19
before 2020	146:100,000	146:100,000	-
2022	185:100,000	147:100,000	-
Diff.	40:100,000	1:100,000	39:100,000

3 yr average

#####

2% of All-Cause excess deaths not CV19

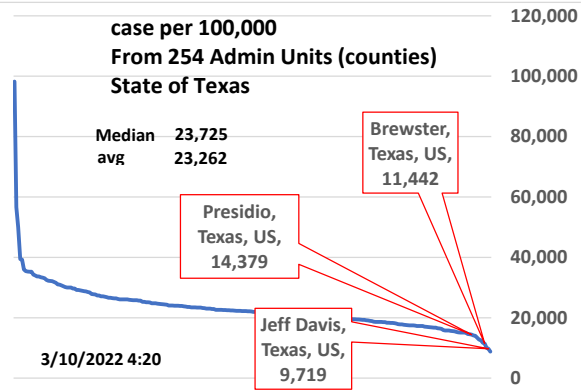
Linear Year Projection

223:100,000

[/data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkxf-xrst/data](https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkxf-xrst/data)

## Tri-Counties in Texas:

## case per 100,000 From 254 Admin Units (counties) State of Texas



## CFR

Ave 0.021  
Median 0.020

