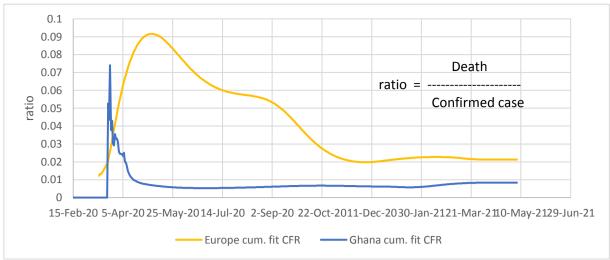
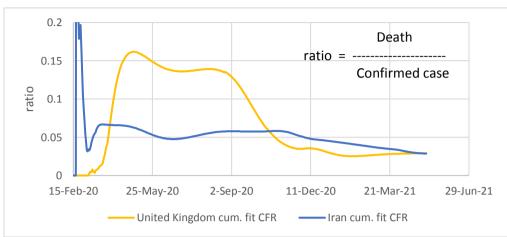
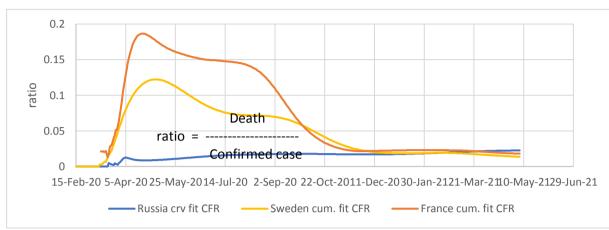
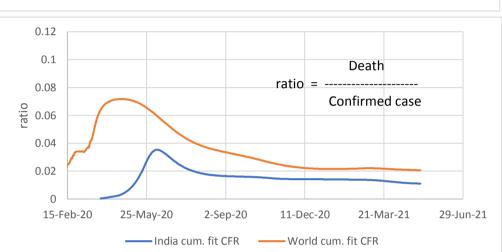
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

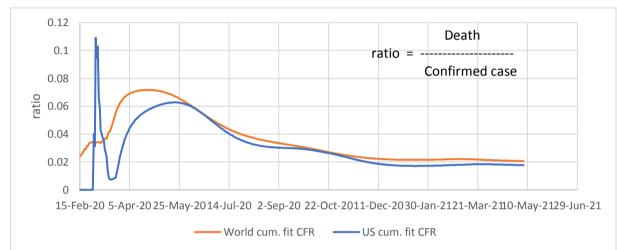




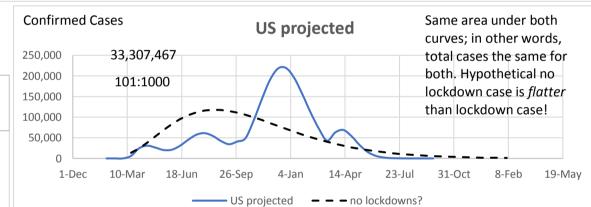


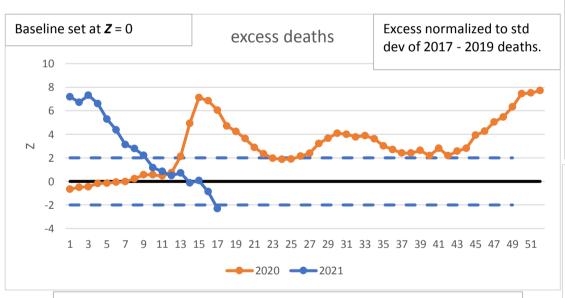


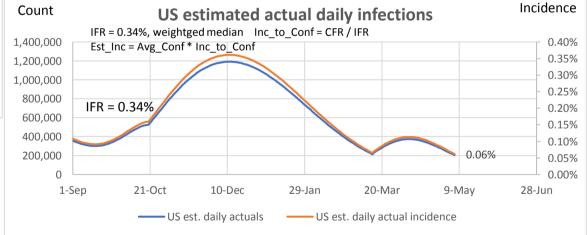




Excess deaths as a Z score:





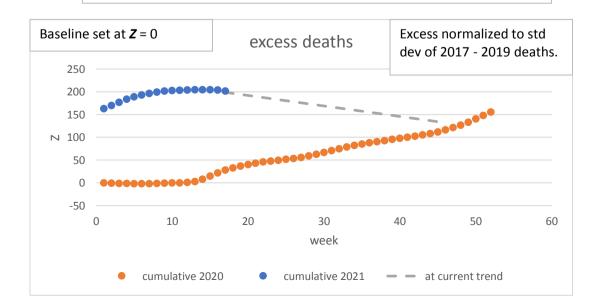


What follows is cumulative plot of same. Data in recent weeks are incomplete. Only 60% of death records are submitted to NCHS within 10 days of the date of death, and completeness

varies by jurisdiction. Data are not weighted and counts are likely

Above based on Z score of three year standard deviation from 2017-2019.

False Positives Demonstration



Use 0.06% from US est. incidence above as estimated daily incidence Prevalence estimated as avg. infected period of 2 weeks X incidence 0.06% X 14 = 0.840% 99% accuracy of test

	Positive	Negative	
test pos	0.832%	0.992%	1.82%
test neg	0.008%	98.168%	<u>98.18%</u>
	0.840%	99.160%	100.00%

False pos. is more than half of total positives. 0.832%/1.82% TRUE +

45.6% FALSE + 0.992%/1.82% 54.4% Total 100.00%

Counter-act this tendency by increasing test sensitivity. However this may increase false negatives, the recipients of which may be positive, think they're negative, and go spread it around some more.

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

Provisional COVID-19 Death Counts 85 years and over 75-84 years 65-74 years 50-64 years 55-64 years 45-54 years rsq = 0.99035-44 years 25-34 years 15-24 years 5-14 years https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-1-4 years Sex-Age-and-S/9bhg-hcku/data Under 1 year 30% 0% 10% 15% 20% 25% ■ Total deaths ■ Covid deaths

USA Excess Deaths (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

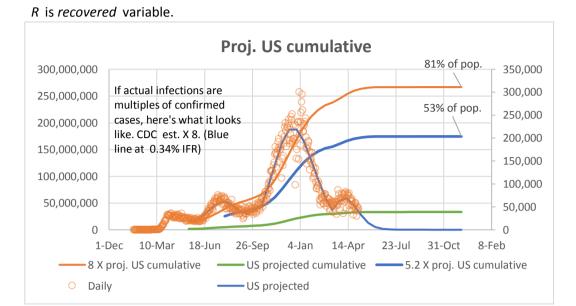
29% of All-Cause excess deaths are non-CV19

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

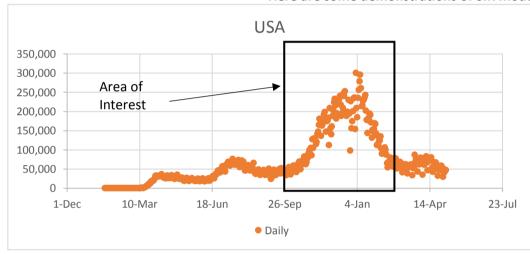
K = 0.318 R_o : R:

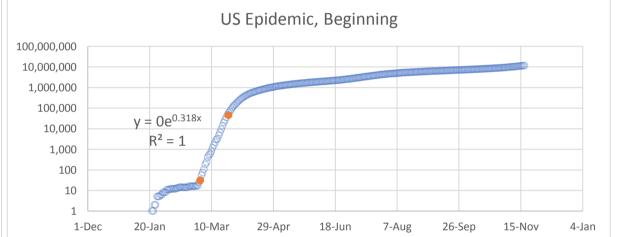
gamma = 0.171 $R_o = \exp(K/\text{gamma}) = 6.42$ 84%

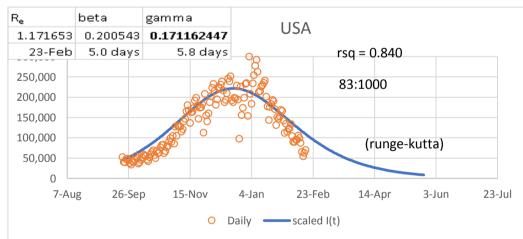
gamma = 0.286 $R > 1 - 1/R_o = 3.04$ 67%

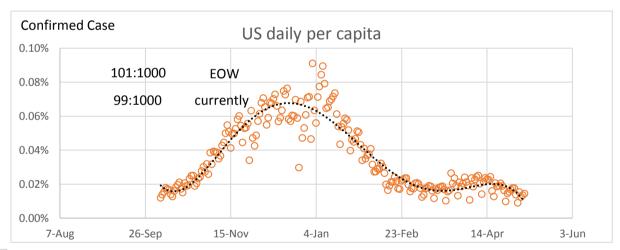


Here are some demonstrations of SIR model, using R_e, gamma, and beta

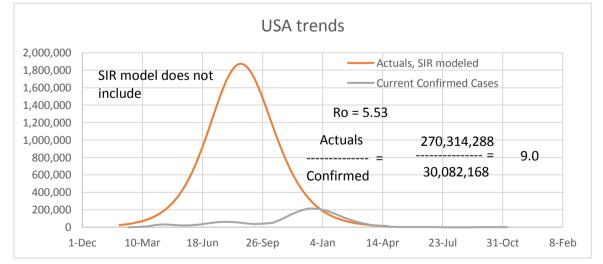


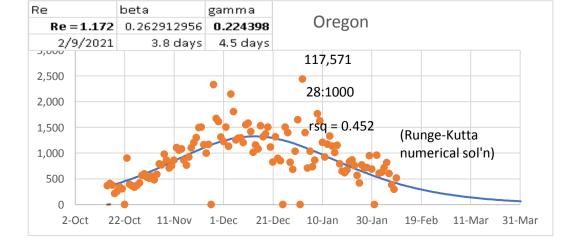


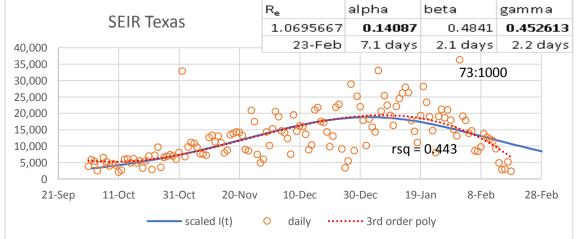


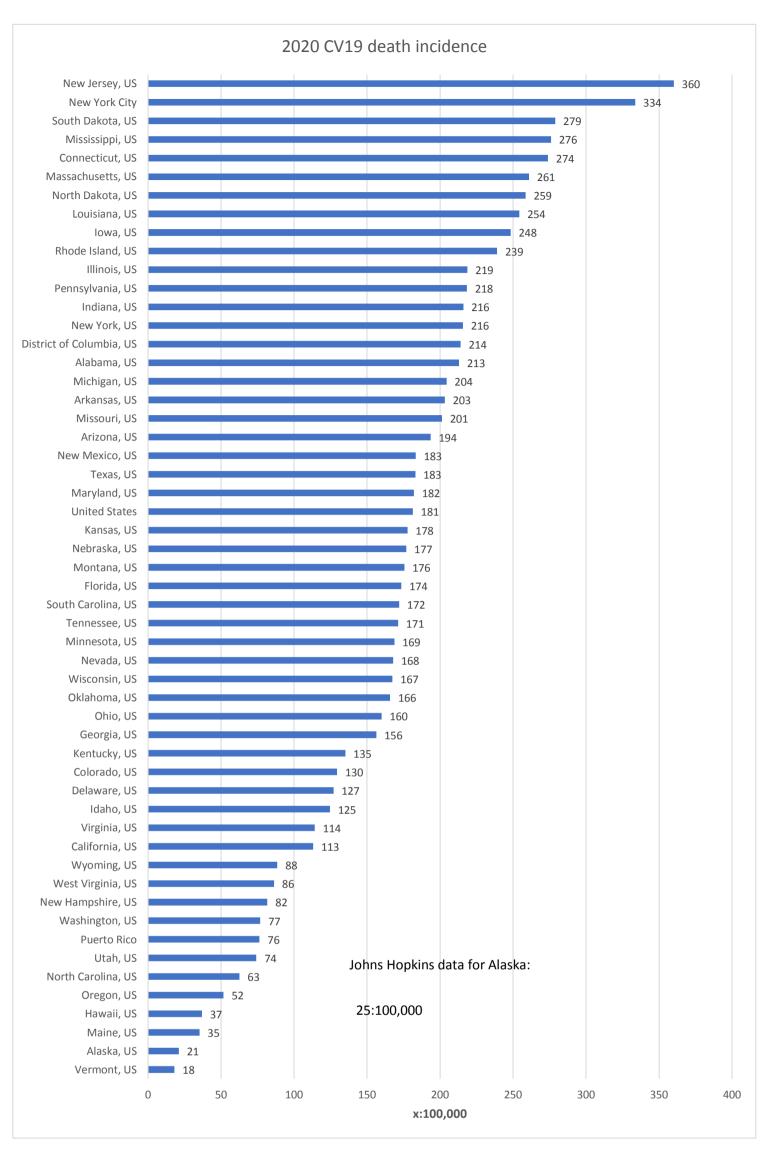












https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-jte6/data