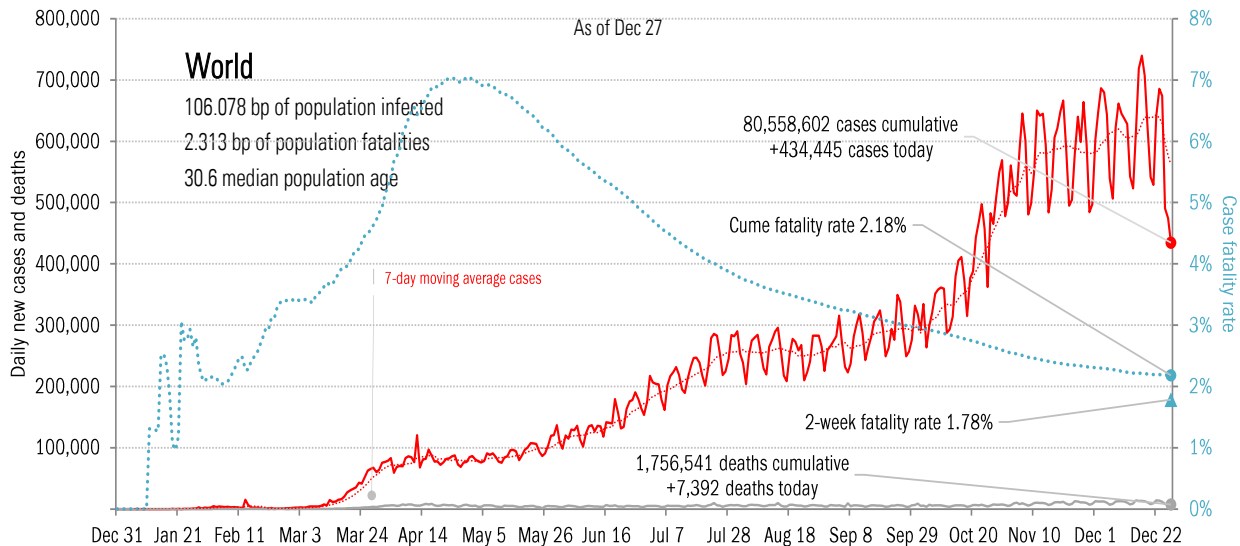
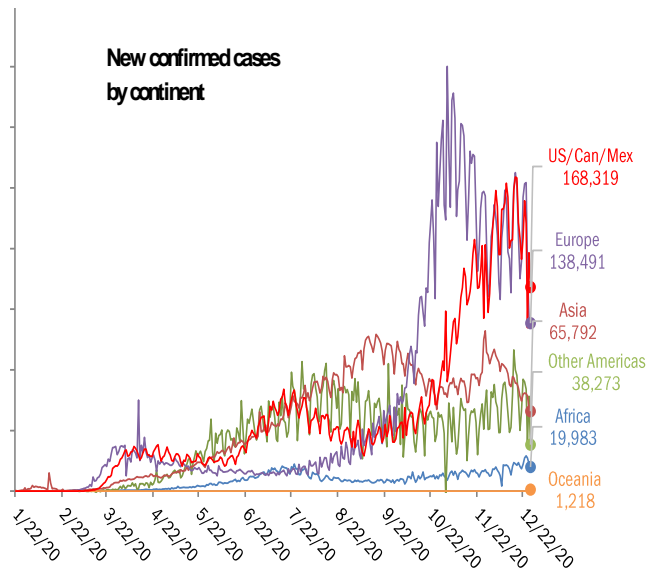


Data Insights: Covid-2019 Monitor

Monday, December 28, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+152,461	United States	+1,395
United Kingdom	+32,493	Russia	+541
Russia	+27,849	Mexico	+400
India	+20,021	Germany	+351
Brazil	+18,479	United Kingdom	+347
Turkey	+14,205	Brazil	+344
Germany	+12,399	Italy	+305
Canada	+9,641	India	+279
Colombia	+9,594	Turkey	+254
South Africa	+9,502	Indonesia	+243
+306,644		+4,459	
World	+434,445	World	+7,392
Top ten	71%	Top ten	60%



Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

For more information contact us:

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

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The US scorecard

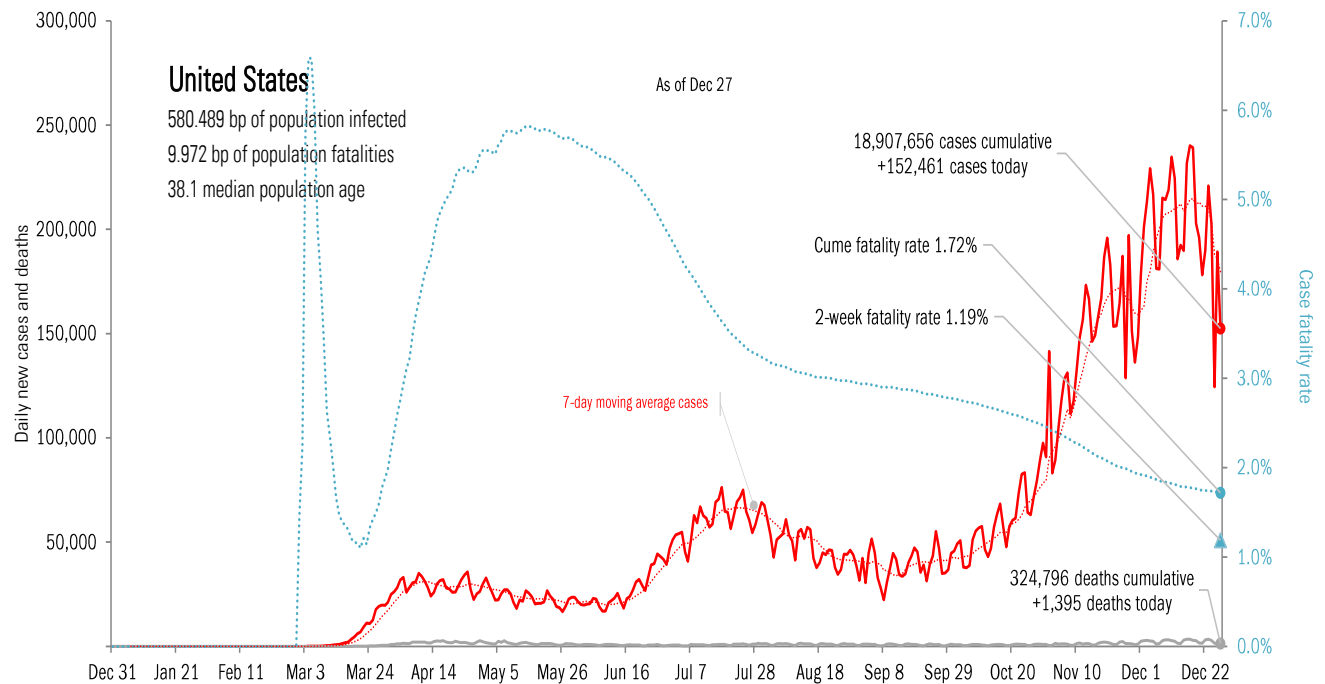
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
CA	+50,141		CA	+237		NY	+299		CA	2,122,806		NY	29,511		NY	89,995		RI	85%	RI	92%
TX	+8,046		PA	+127		FL	+263		TX	1,668,597		TX	26,472		FL	62,296		MD	78%	NV	89%
NY	+7,623		NY	+115		CA	+262		FL	1,250,275		CA	24,220		NJ	46,373		NV	78%	GA	87%
SC	+7,287		IL	+112		GA	+174		IL	937,909		FL	21,514		GA	40,787		GA	78%	AL	87%
FL	+7,157		MA	+100		AL	+115		NY	922,145		NJ	18,630		CH	36,786		CA	77%	CA	87%
CH	+5,857		FL	+77		TX	+113		CH	670,525		IL	17,336		AZ	35,390		DC	76%	OK	87%
PA	+4,884		TN	+69		NC	+100		PA	610,025		PA	15,010		IN	34,102		NC	75%	NM	86%
VA	+3,999		TX	+51		PA	+99		TN	564,080		MI	12,690		AL	32,115		CT	75%	TX	84%
IL	+3,767		IN	+42		MA	+79		GA	543,707		MA	12,110		MD	25,851		AZ	73%	MS	84%
WA	+3,626		AR	+41		CH	+73		NC	516,828		GA	10,689		MN	21,315		TX	73%	NC	82%
+102,387			+971			+1,577			9,806,897			188,182			425,010						
All states	+152,461			+1,395			+1376		All states	18,907,656			324,796			667,269		All states	67%		75%
Top ten	67%			70%			115%		Top ten	52%			58%			64%		Median	63%		73%

Some states not reporting

Five most improved US states

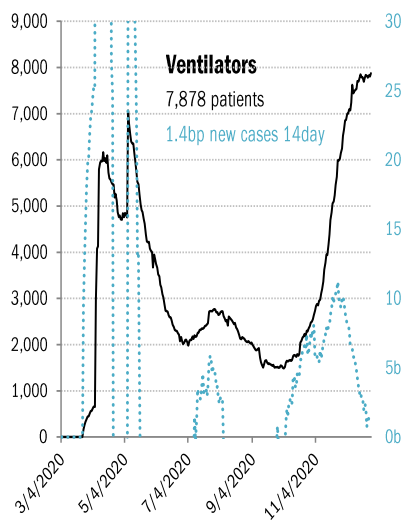
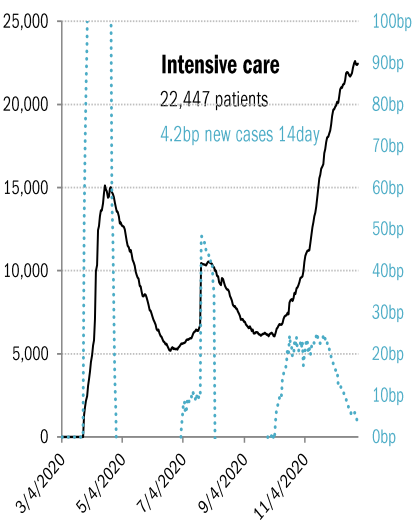
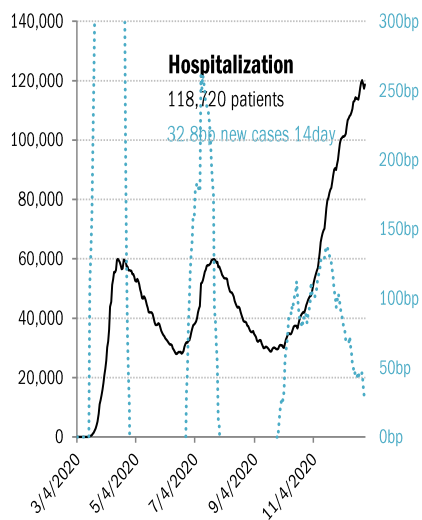
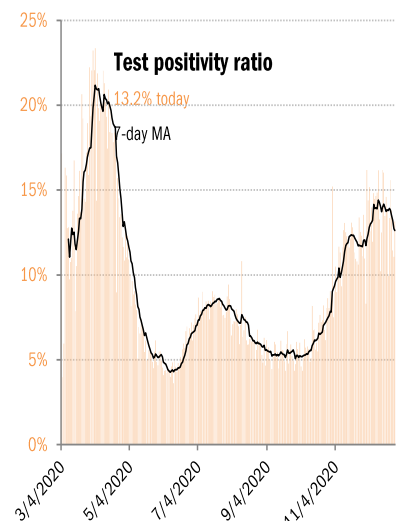
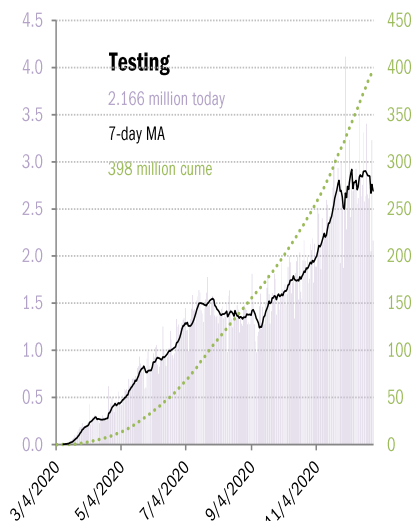
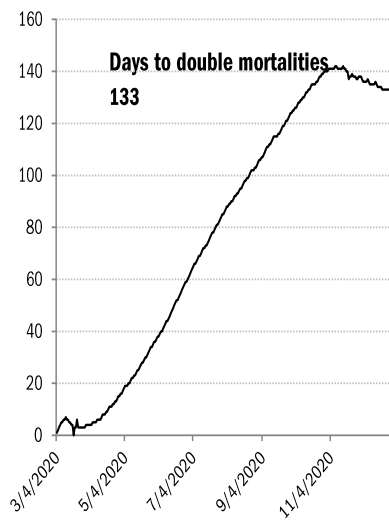
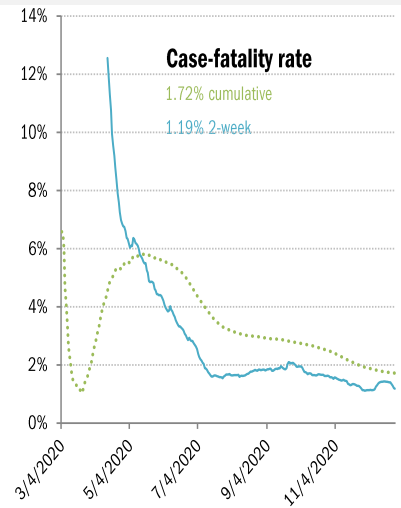
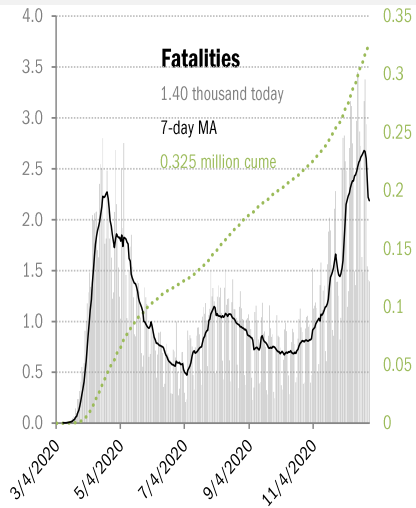
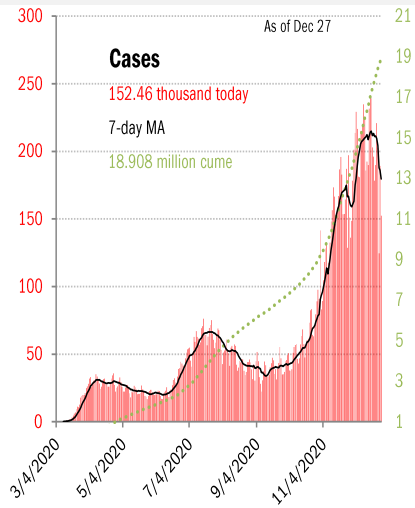
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
NC	-16,521	MI	-275	WI	-154	TX	+7,516
TN	-11,207	NC	-143	LA	-103	NE	+7,304
FL	-9,431	FL	-65	MO	-84	CH	+6,725
MI	-7,877	GA	-50	ID	-40	MN	+6,214
CH	-5,161	SC	-50	DC	-6	OK	+4,915



Source: [Covid Tracking Project](#), [Dept. of Health and Human Services](#), TrendMacro calculations

US deep-dive

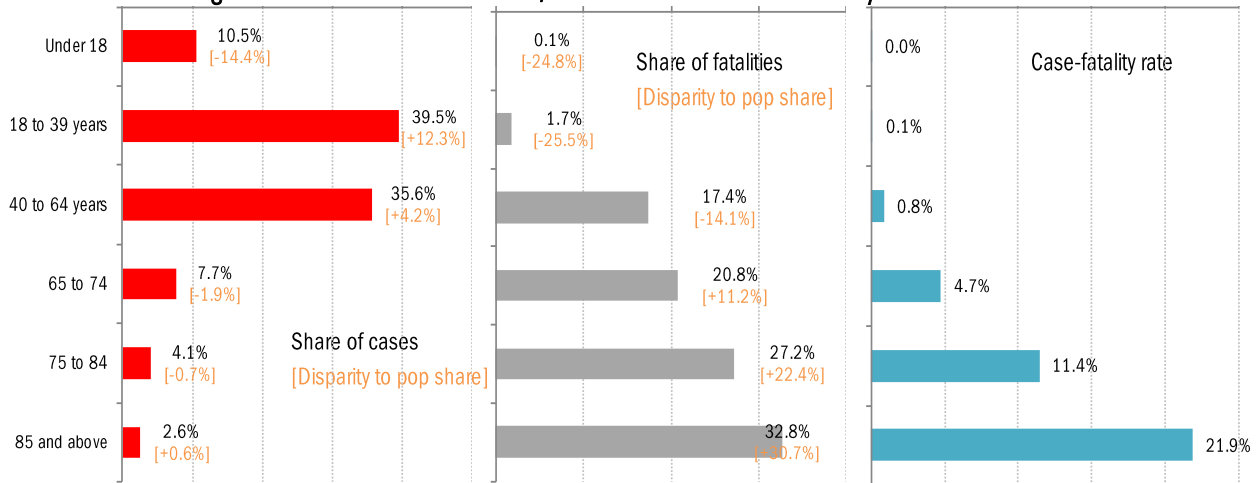
National and state-by-state data do not line up because of different sources



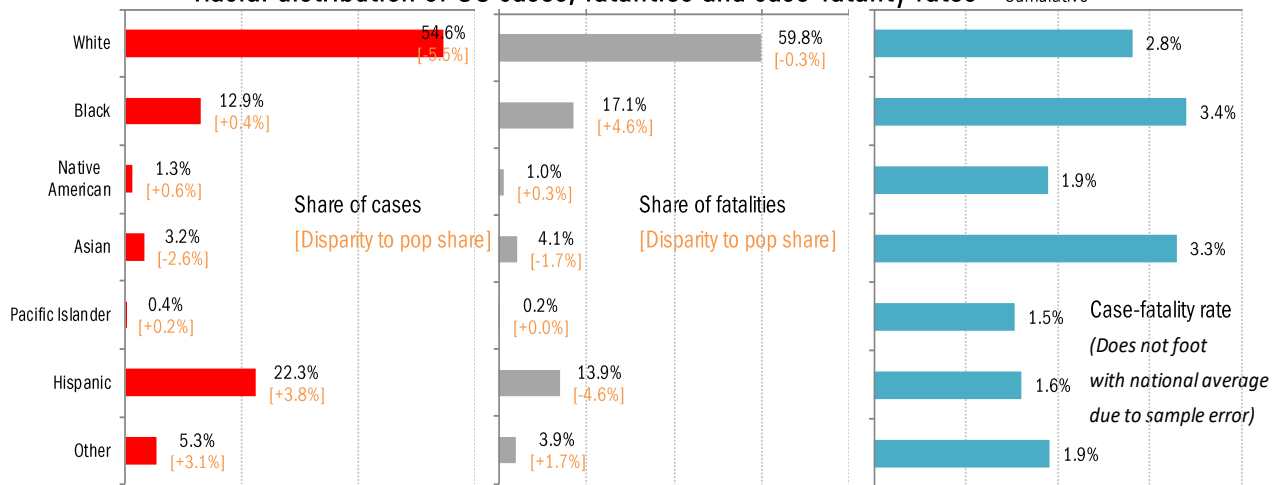
Source: [Covid Tracking Project](https://covidtracking.com), TrendMacro calculations

US deep-dive on the demographics of age, race and health

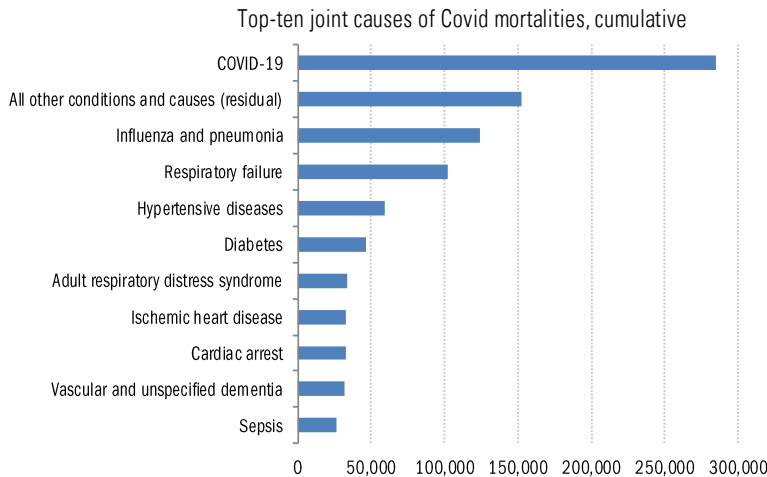
Age distribution of US cases, fatalities and case-fatality rates



Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities



For 6% of the deaths, COVID-19 was the only cause mentioned. For deaths with conditions or causes in addition to COVID-19, on average, there were 2.9 additional conditions or causes per death.

Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

Recommended reading

[Top U.S. Health Officials Warn of Post-Holiday Coronavirus Surge](#)

Bailey Lipschultz and Chris Strohm
Bloomberg
December 27, 2020

[Chinese citizen journalist jailed after accusing officials of Covid cover-up](#)

Christian Shepherd and Tom Mitchell
Financial Times
December 28, 2020

[Government Mandated Lockdowns Do Not Reduce Covid-19 Deaths: Implications for Evaluating the Stringent New Zealand Response](#)

John Gibson
IDEAS
June 2020

[Turning the Corner on Covid](#)

Scott Gottlieb
Wall Street Journal
December 27, 2020

[The new Covid-19 strain is a political disaster of our own making](#)

Rob Sutton
The Critic
December 23, 2020

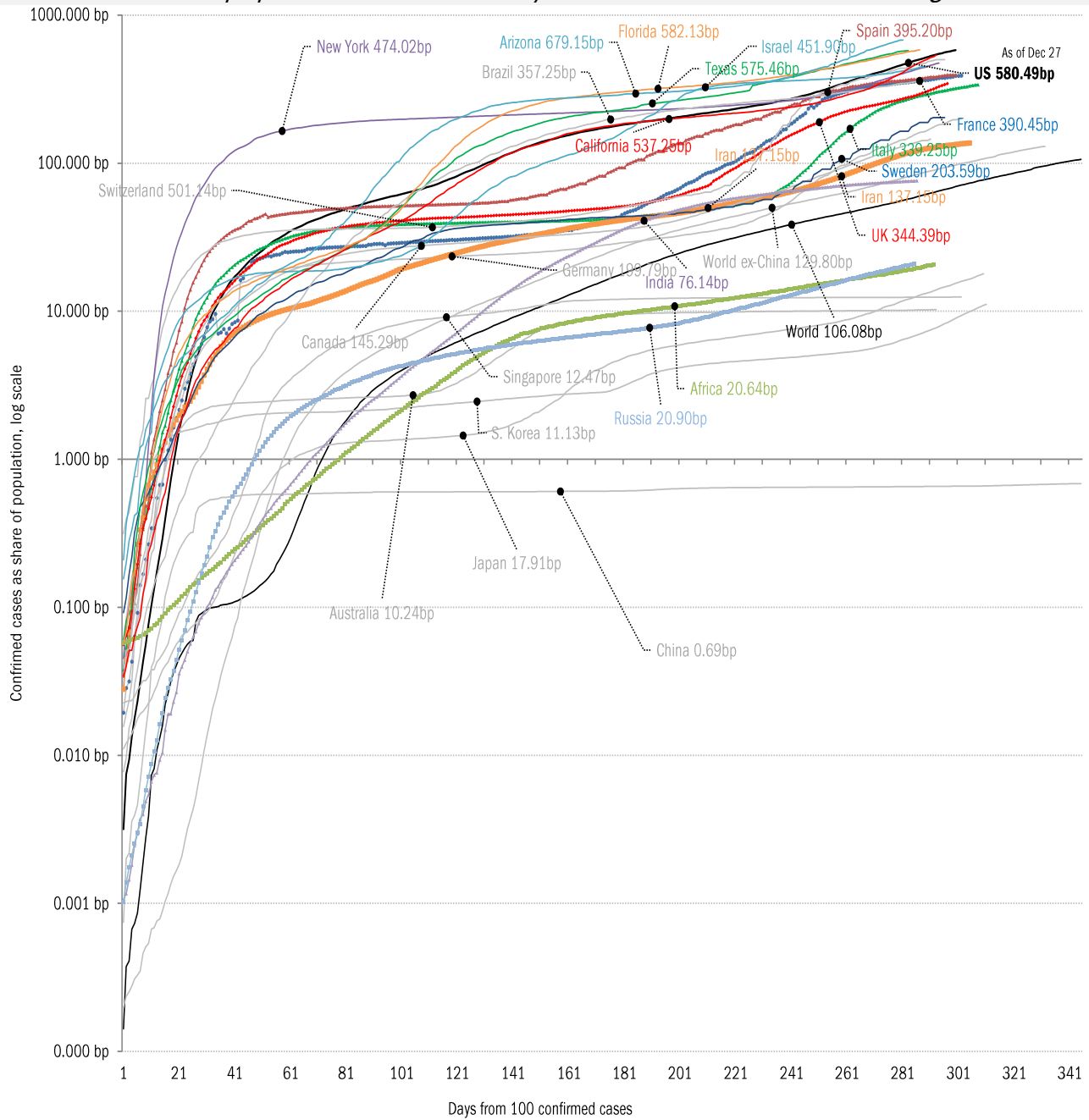
Meme of day

Y'all probably didn't know this, but this tiny lil pocket on your jeans is for your second stimulus.



Source: Our beloved clients, and [Power Line blog "The Week in Pictures"](#)

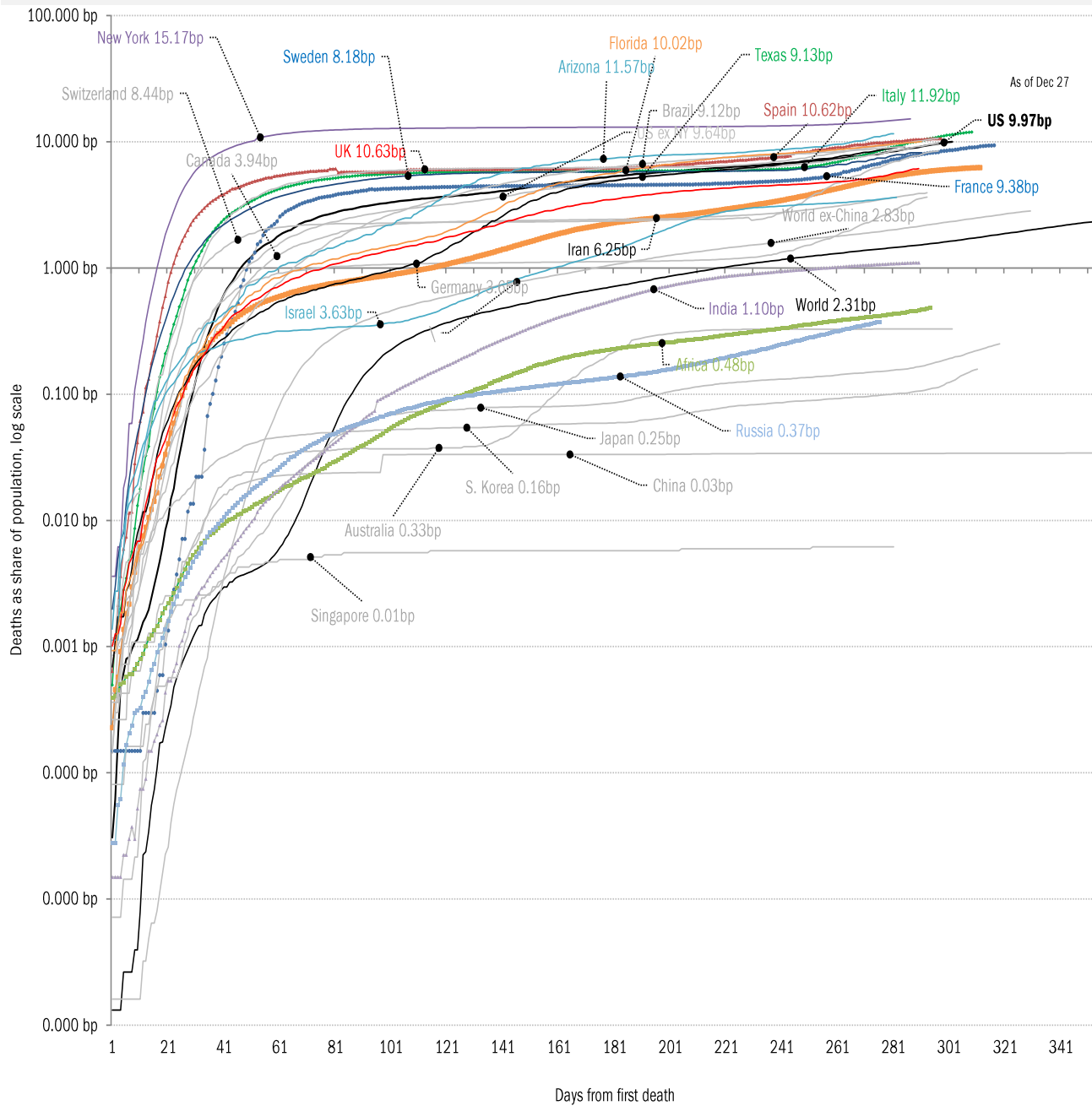
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

The coronavirus mortality accelerometer ... tracking the world's fatality curves

Share of deceased population from day of first fatality

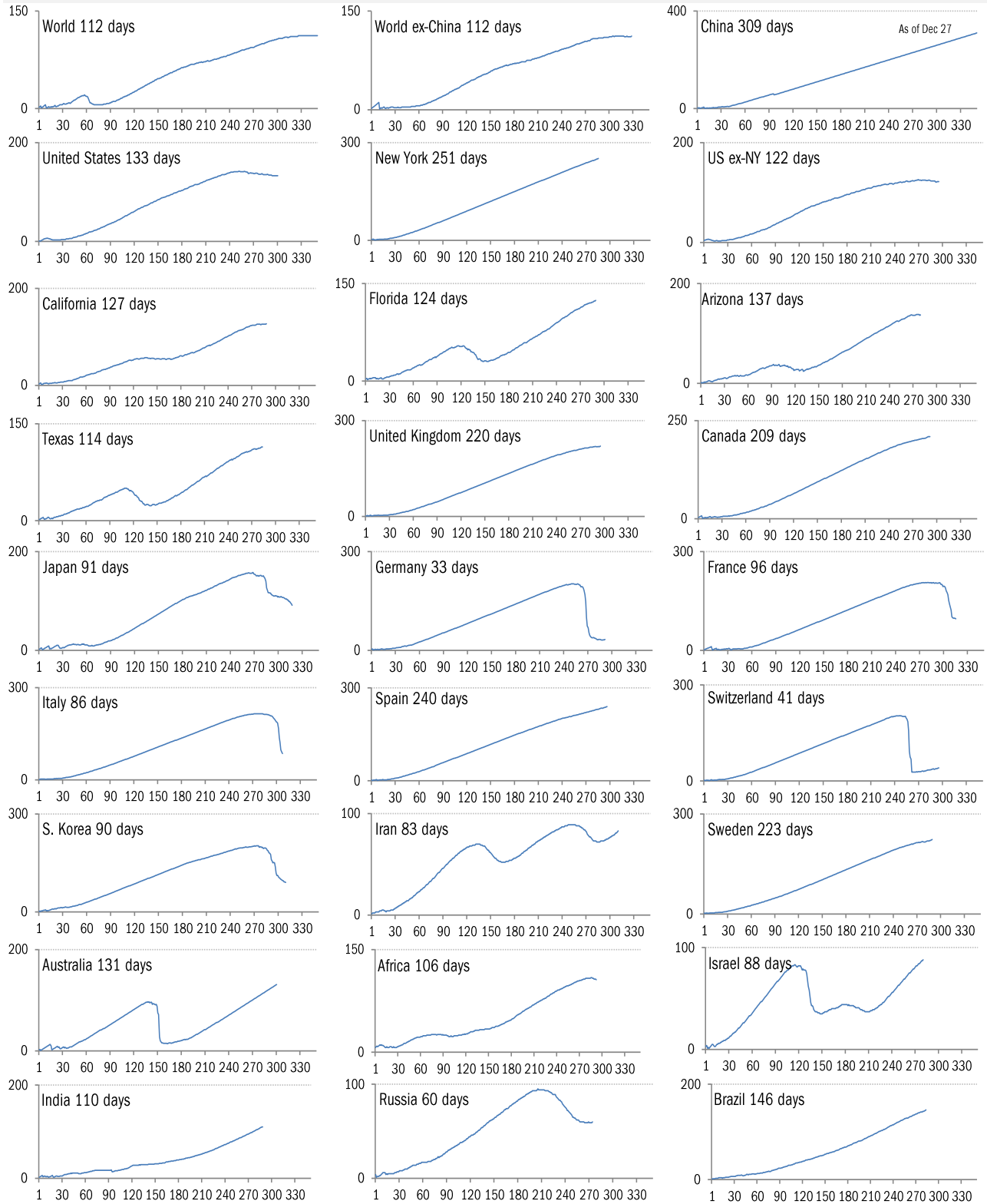


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

Vertical: days to double deaths Horizontal: days from first death

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

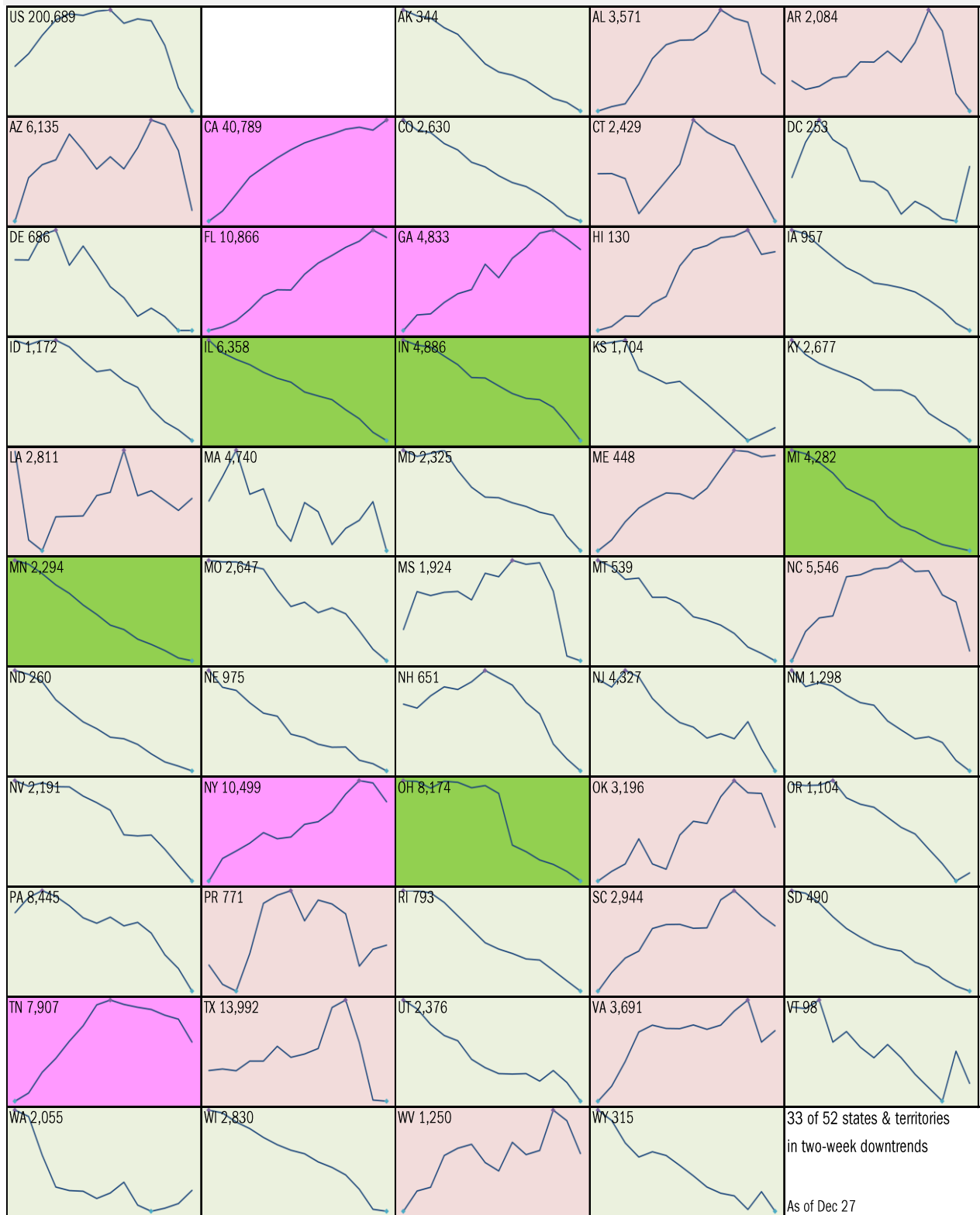


Source: [Johns Hopkins, Covid Tracking Project](#), TrendMacro calculations

Requirement to [Open Up America Again](#): 14-day "downward trajectory" in new cases

14-day moving average, last 14 days *Most recent value displayed* ● High ● Low

■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



Source: [Covid Tracking Project](#), TrendMacro calculations

Alt requirement to [Open Up America Again](#): 14-day “downward trajectory” in pos tests

14-day moving average, last 14 days Most recent value displayed ● High ● Low

■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



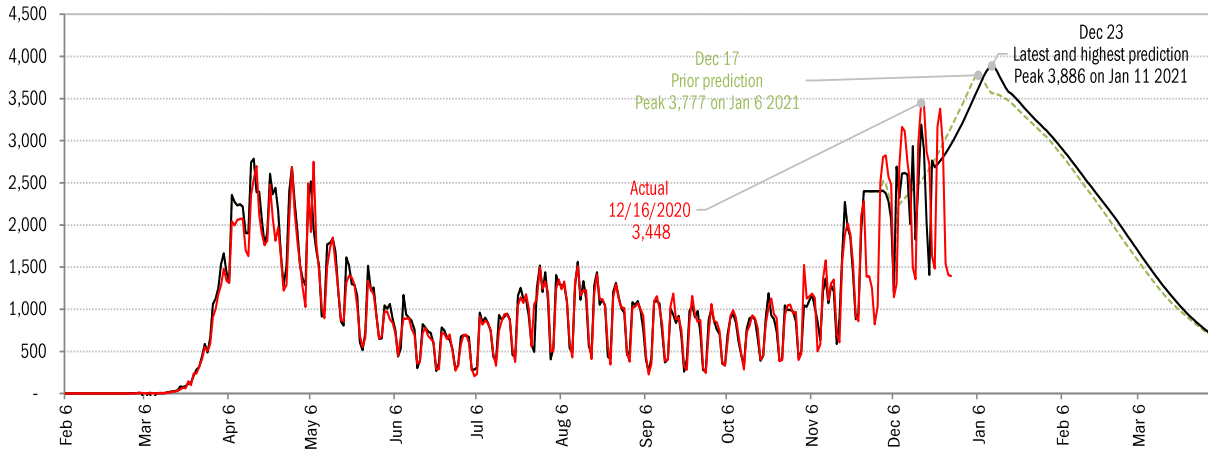
Source: [Covid Tracking Project](#), TrendMacro calculations

Reality-checking the models: actuals versus [IHME predictions](#)

New daily fatalities

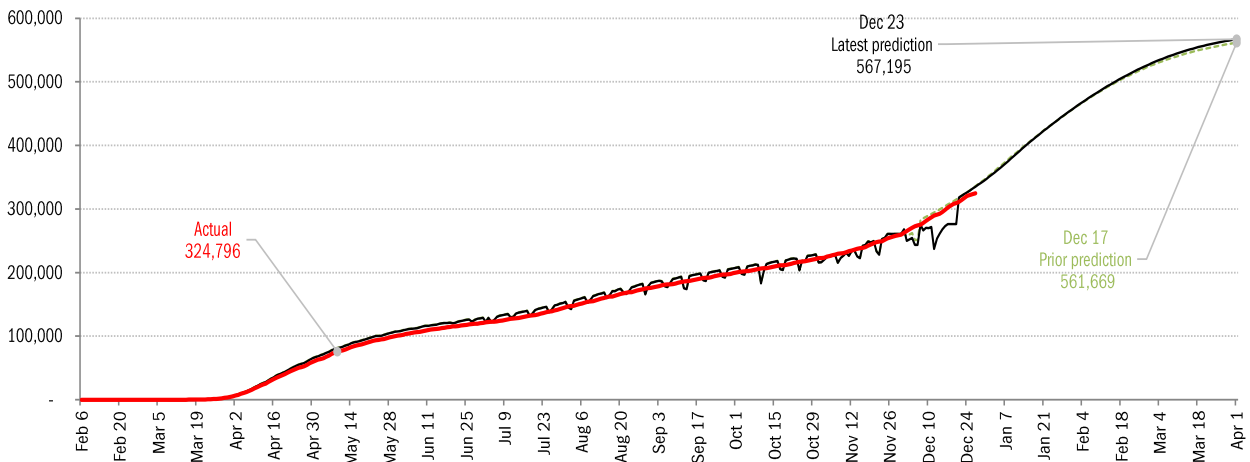
As of Dec 27

Actual versus first, highest, lowest and latest model mean predictions

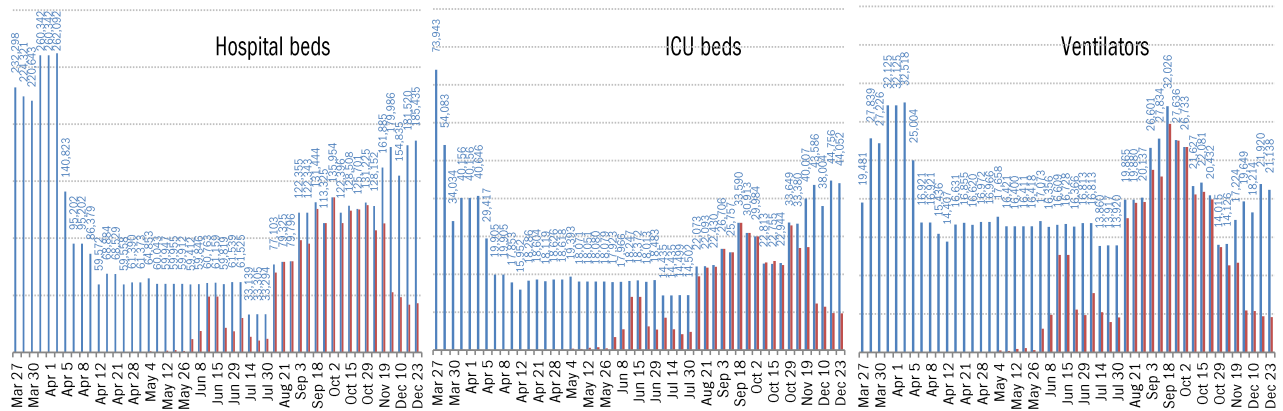


Cumulative fatalities

Actual versus first, highest, lowest and latest model mean predictions

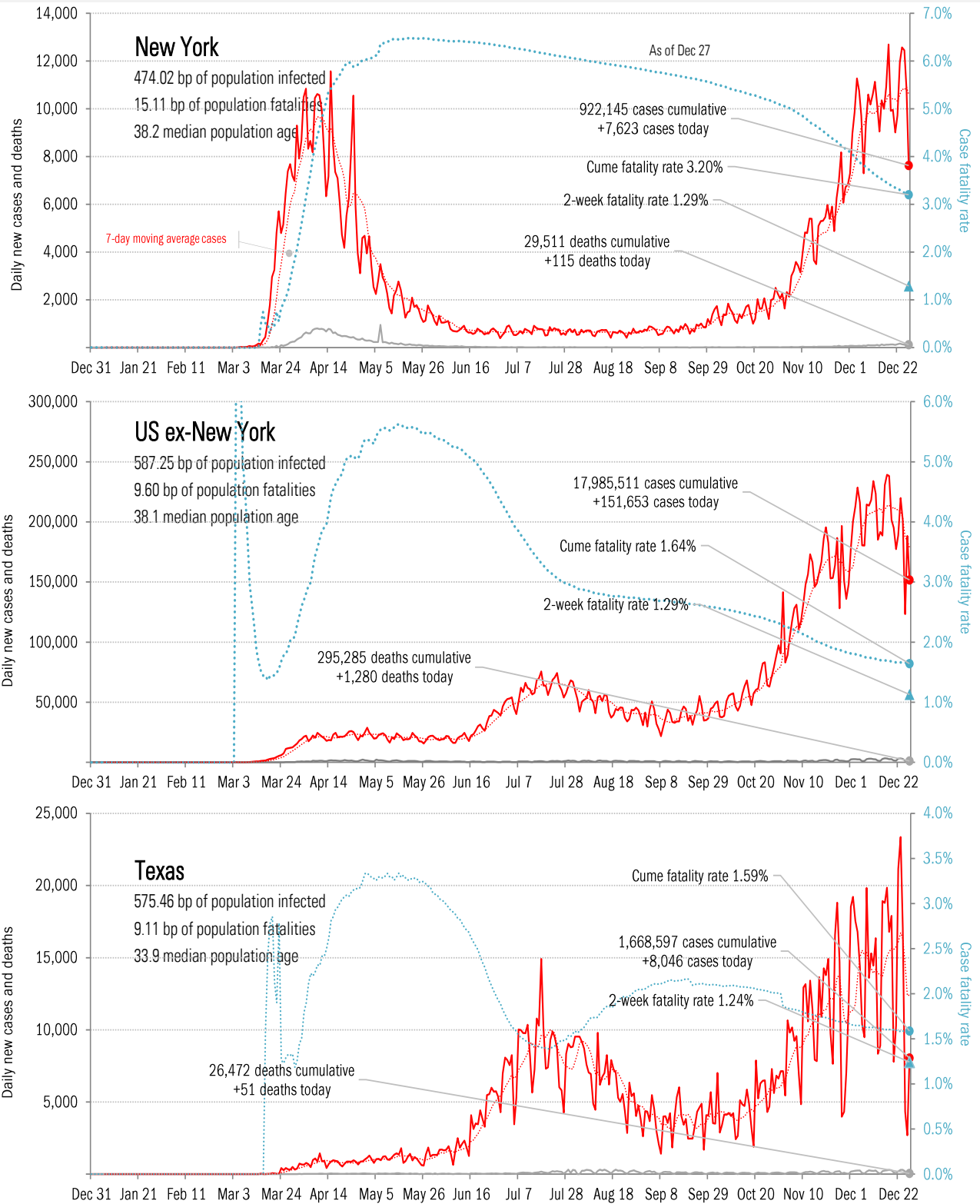


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



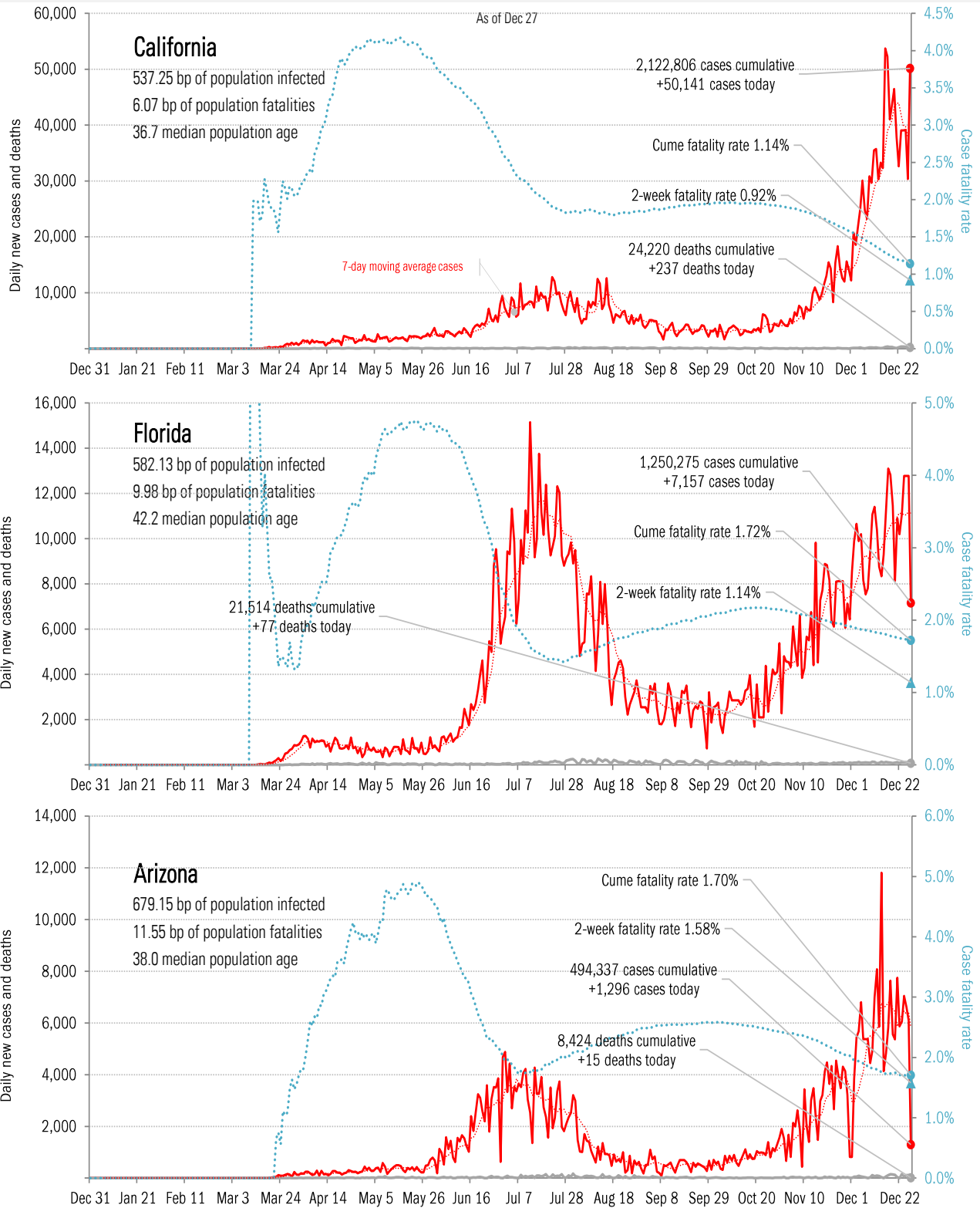
Source: [IHME](#), [Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



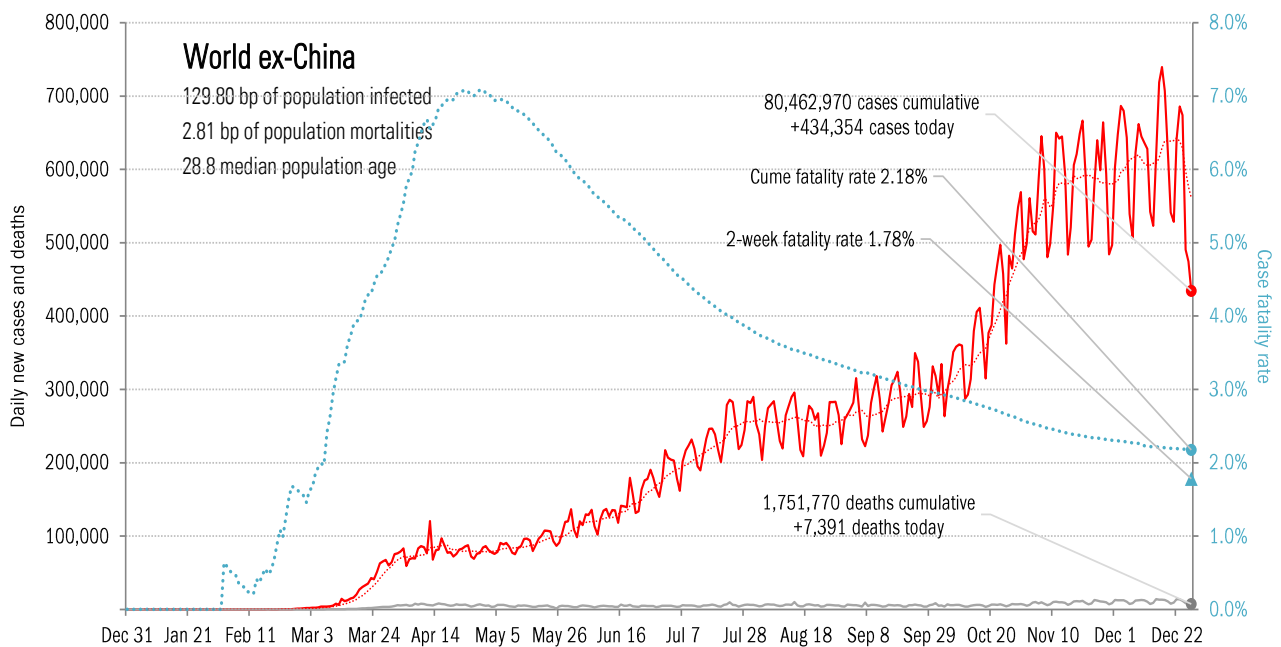
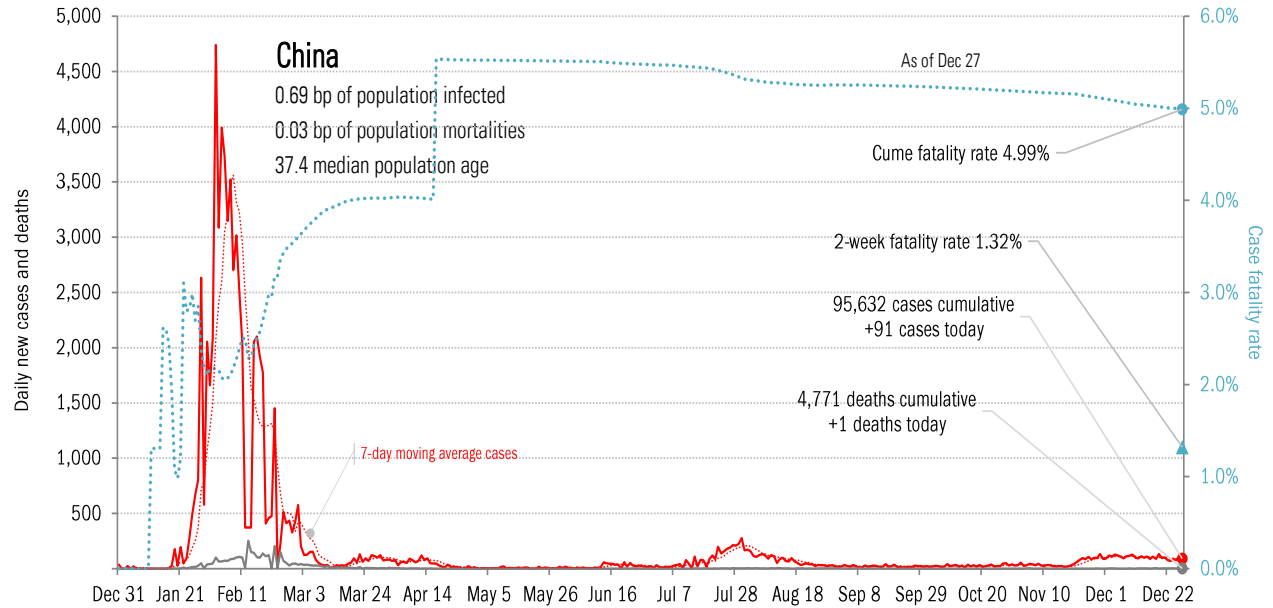
Source: [Covid Tracking Project](#), TrendMacro calculations

The sun-belt hot-spot states (other than Texas)



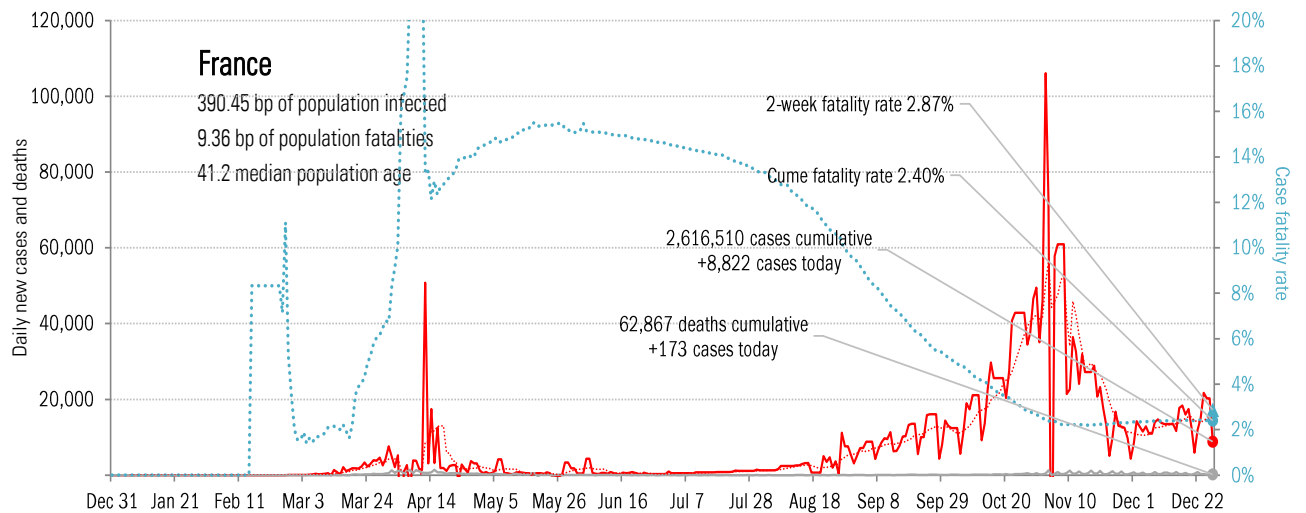
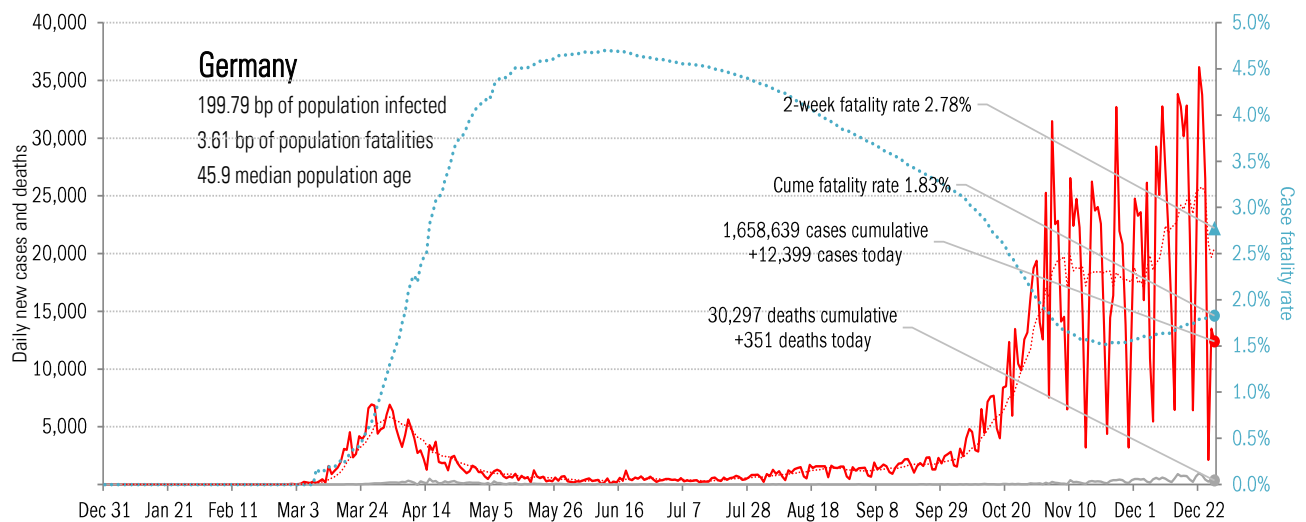
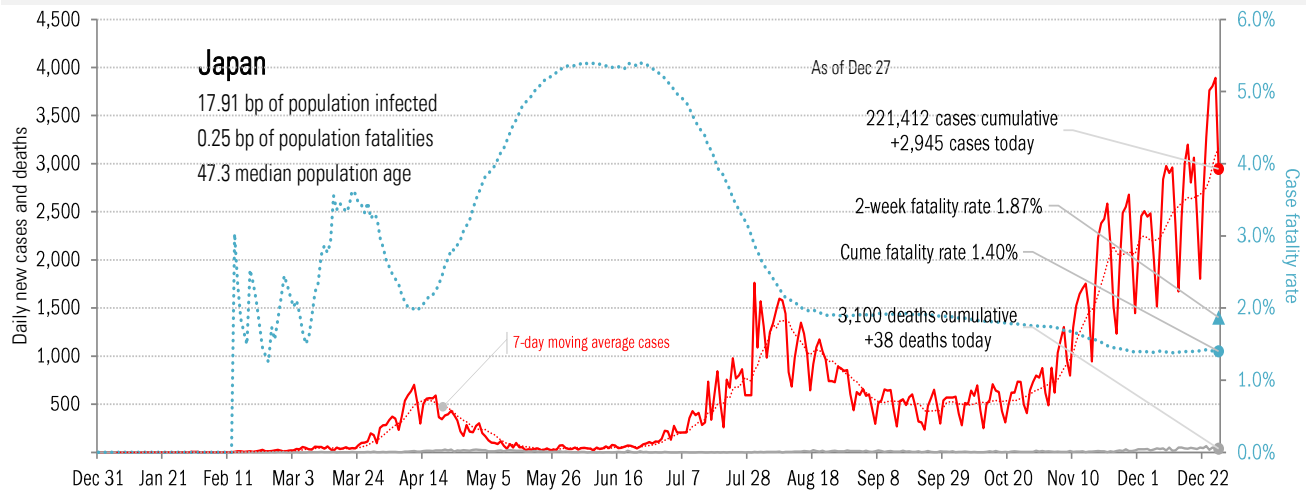
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



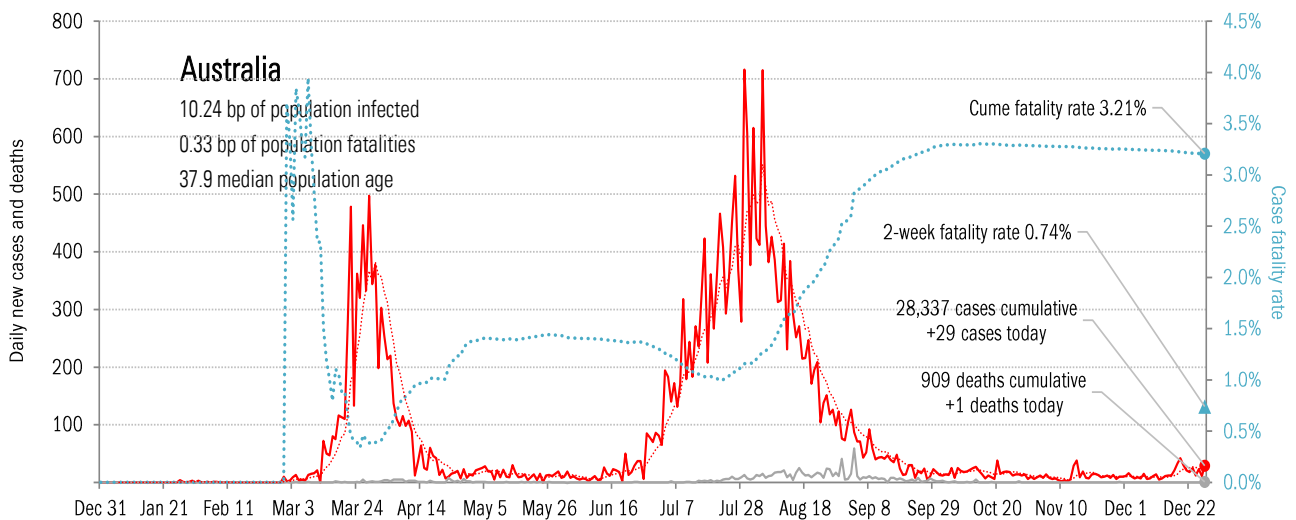
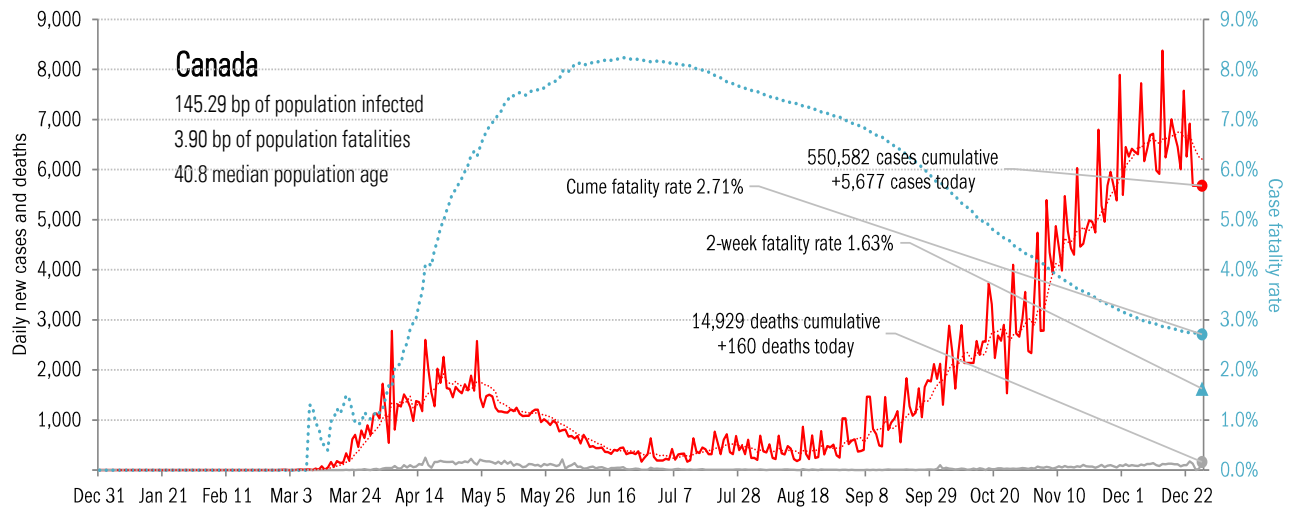
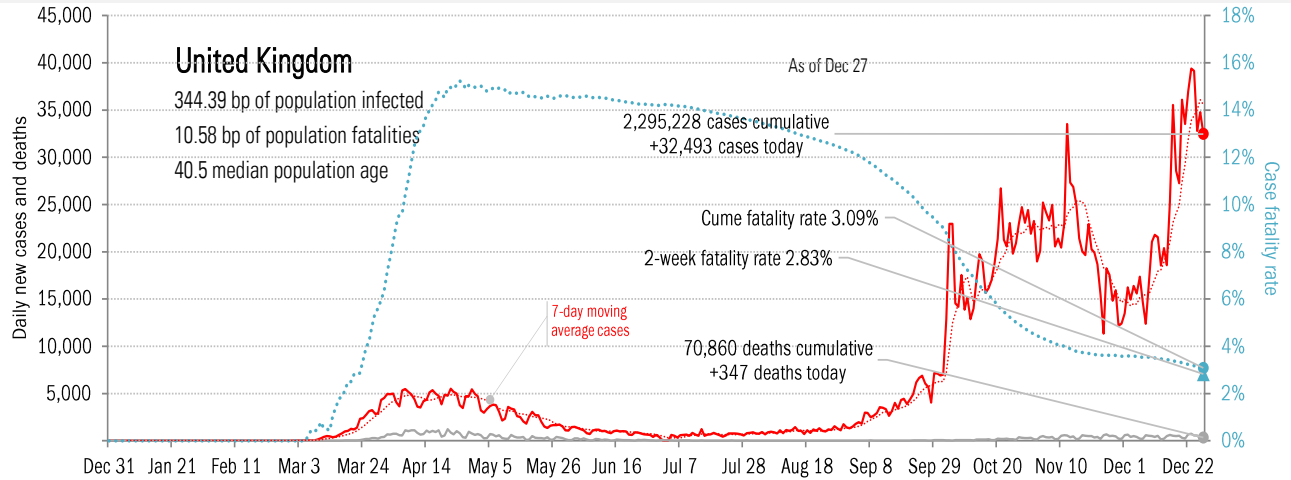
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



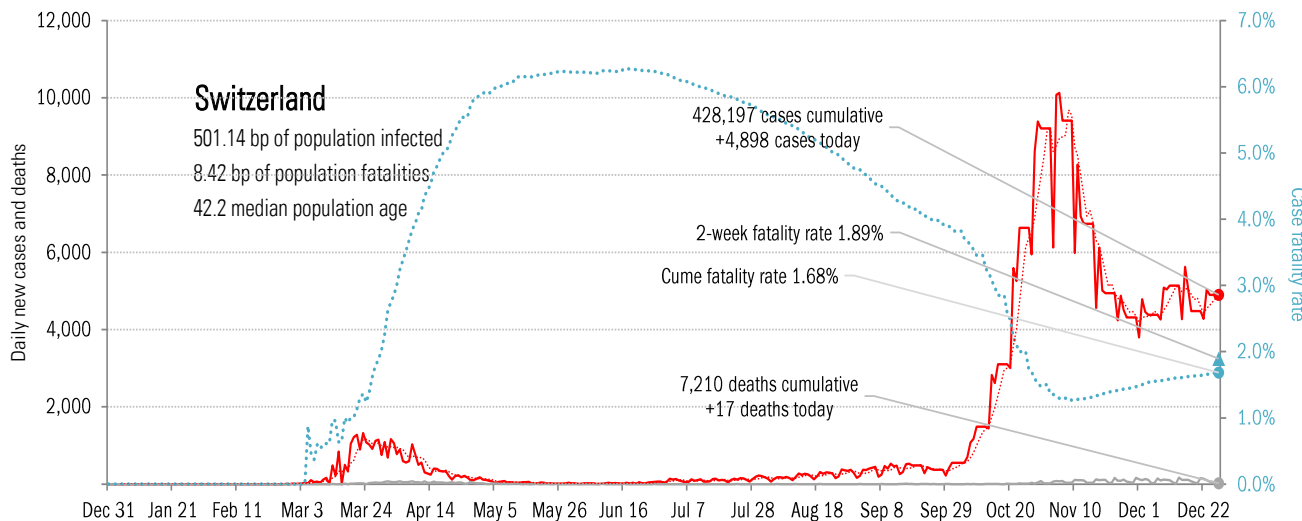
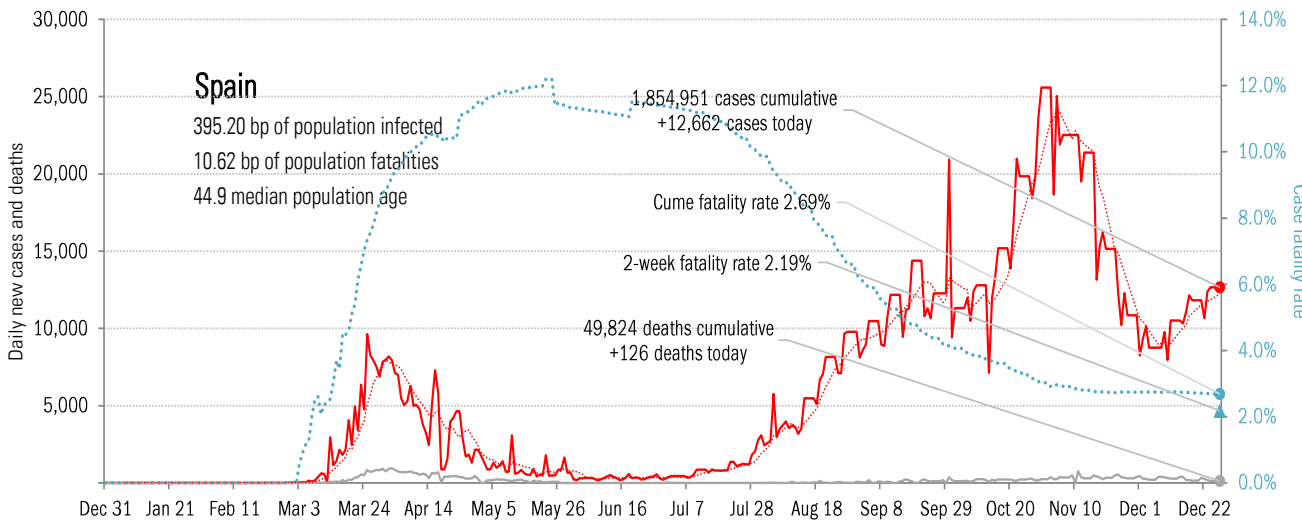
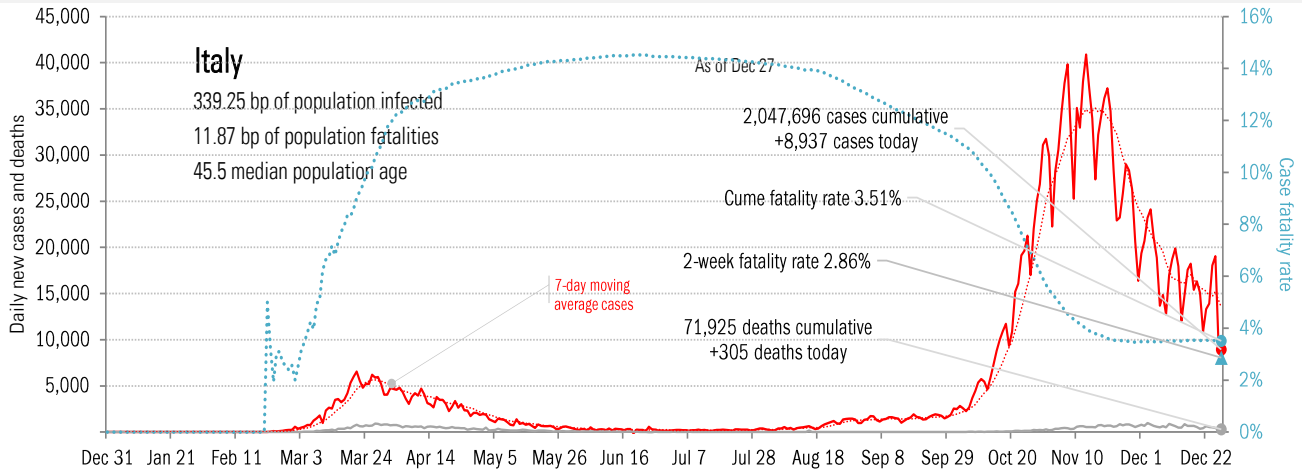
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



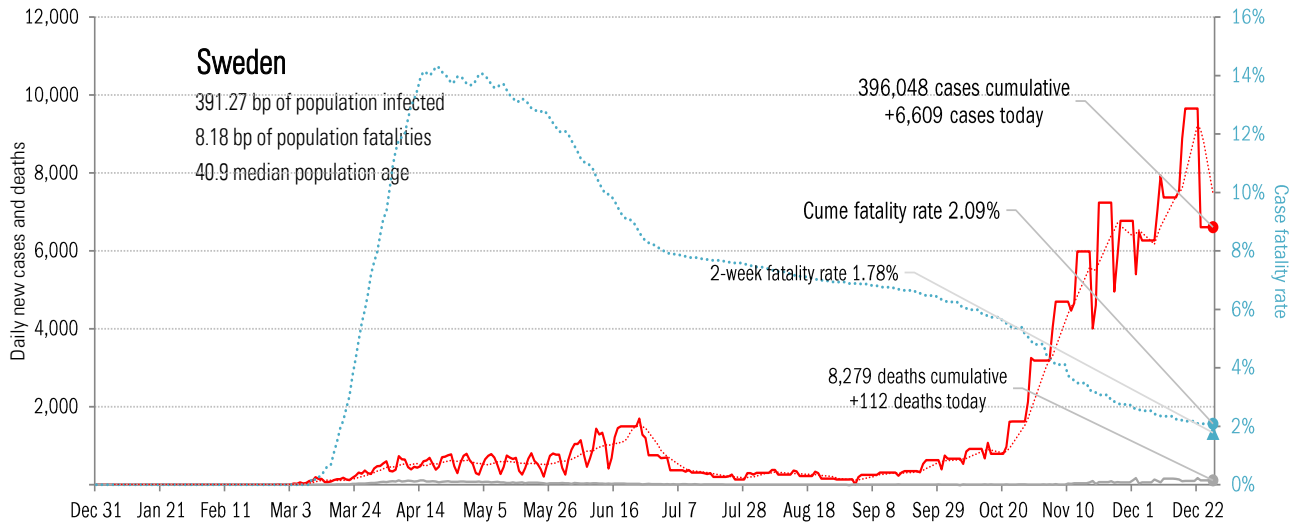
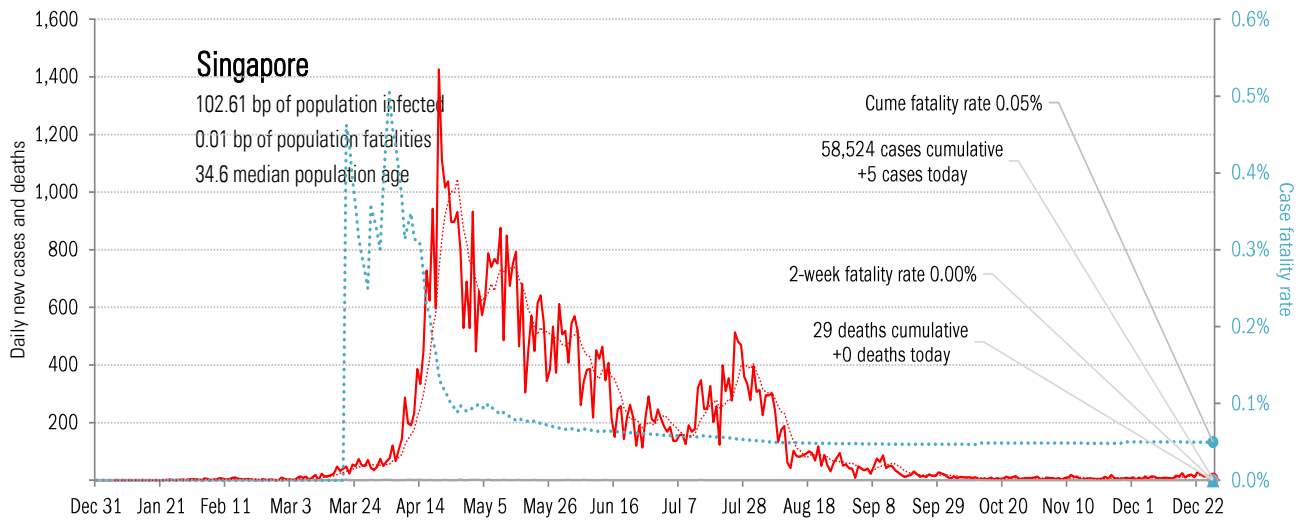
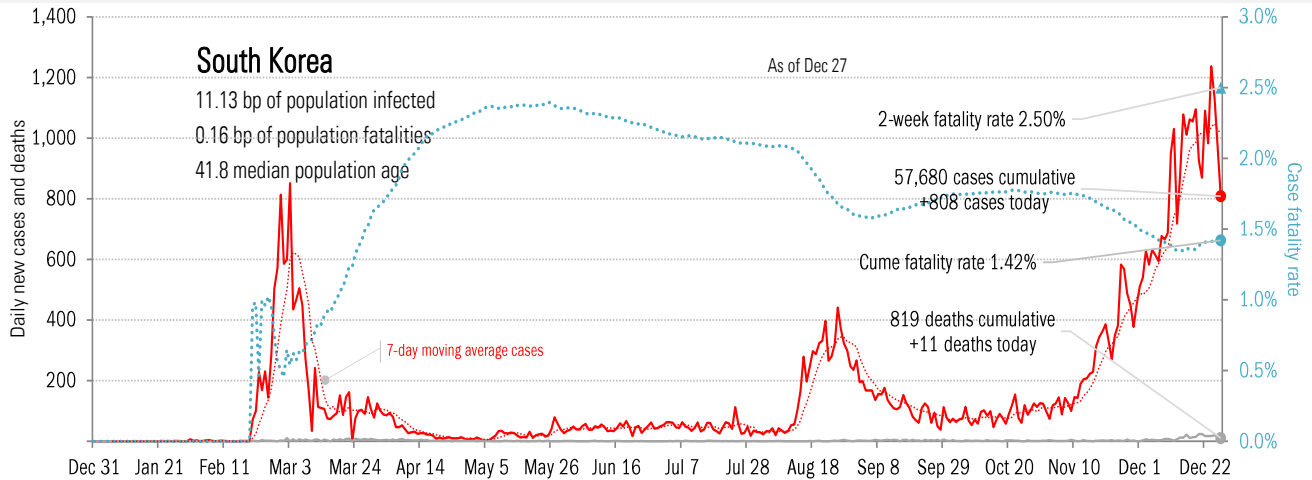
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



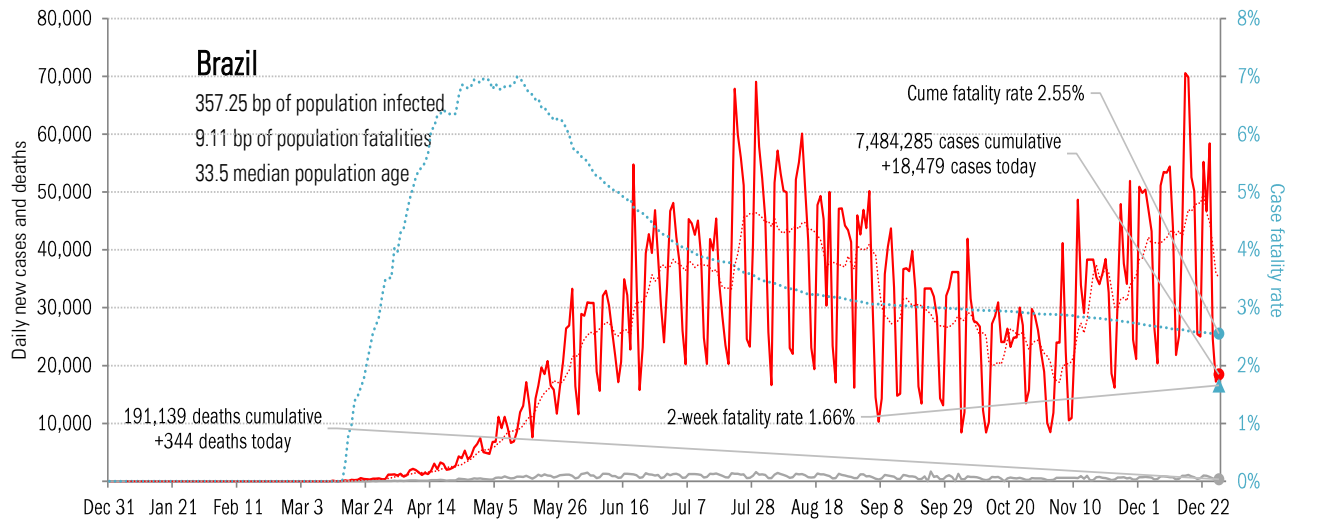
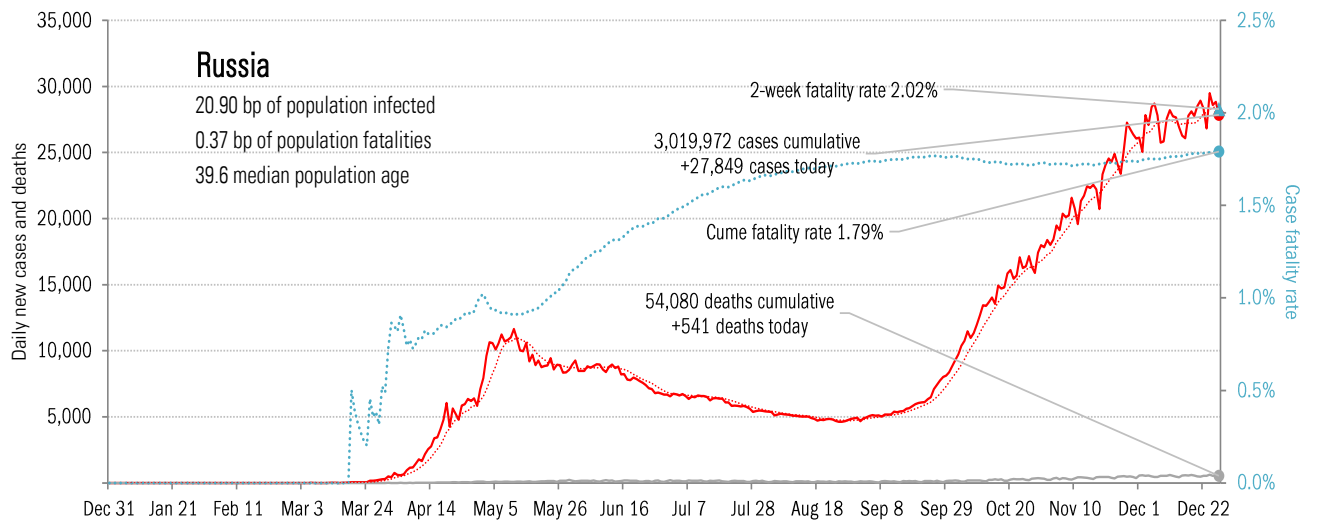
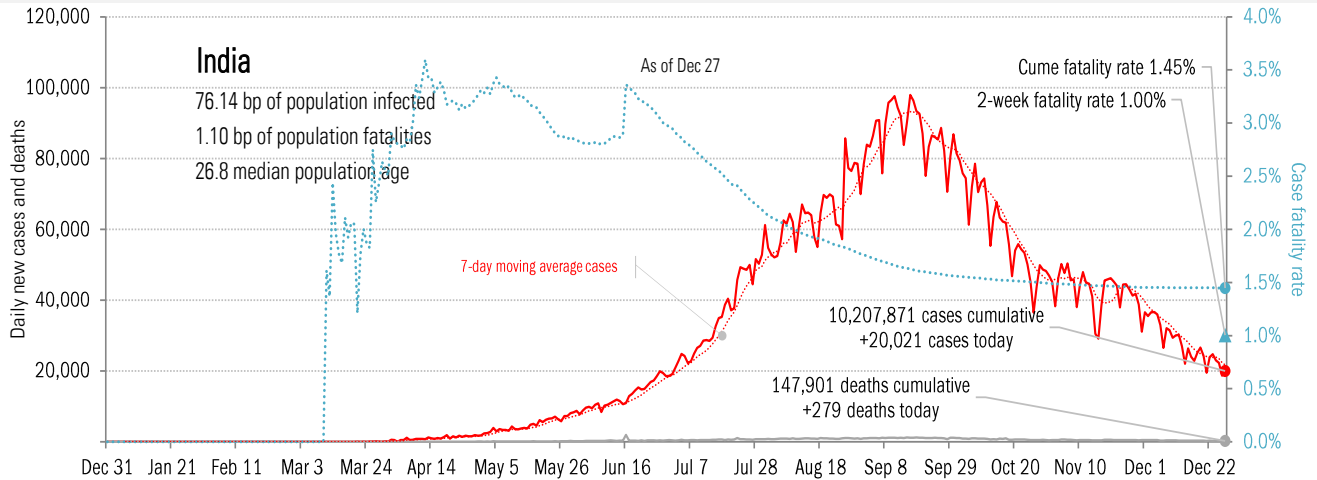
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



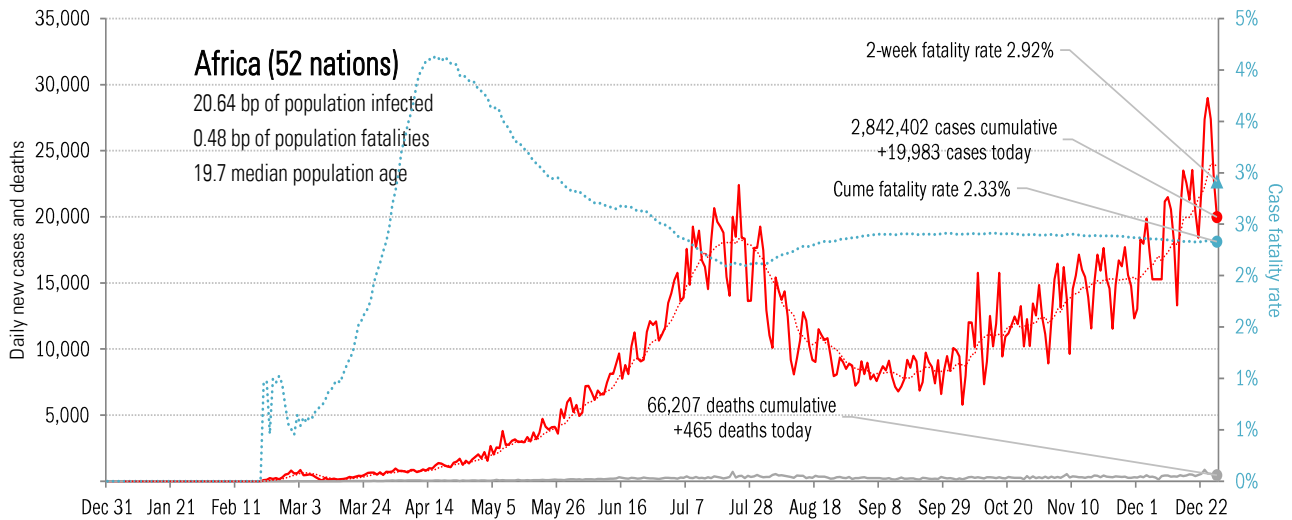
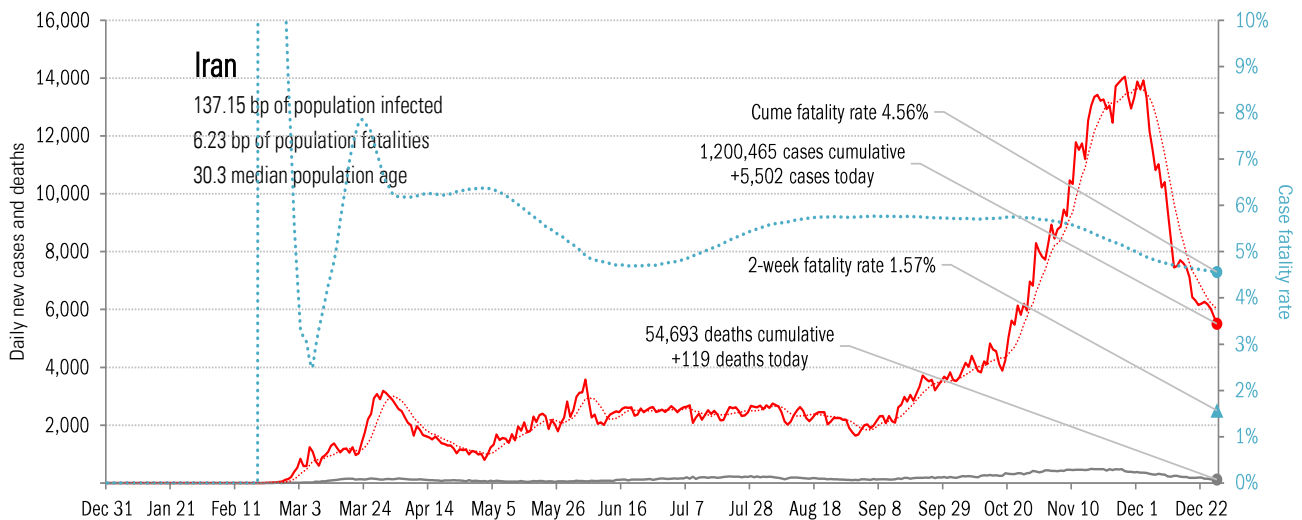
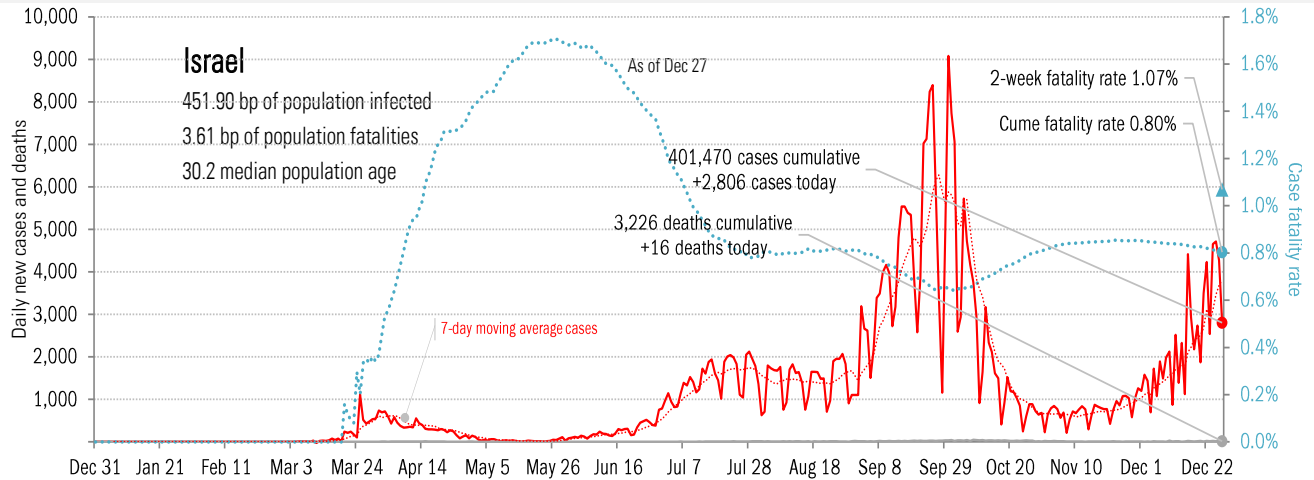
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [Johns Hopkins](#), TrendMacro calculations