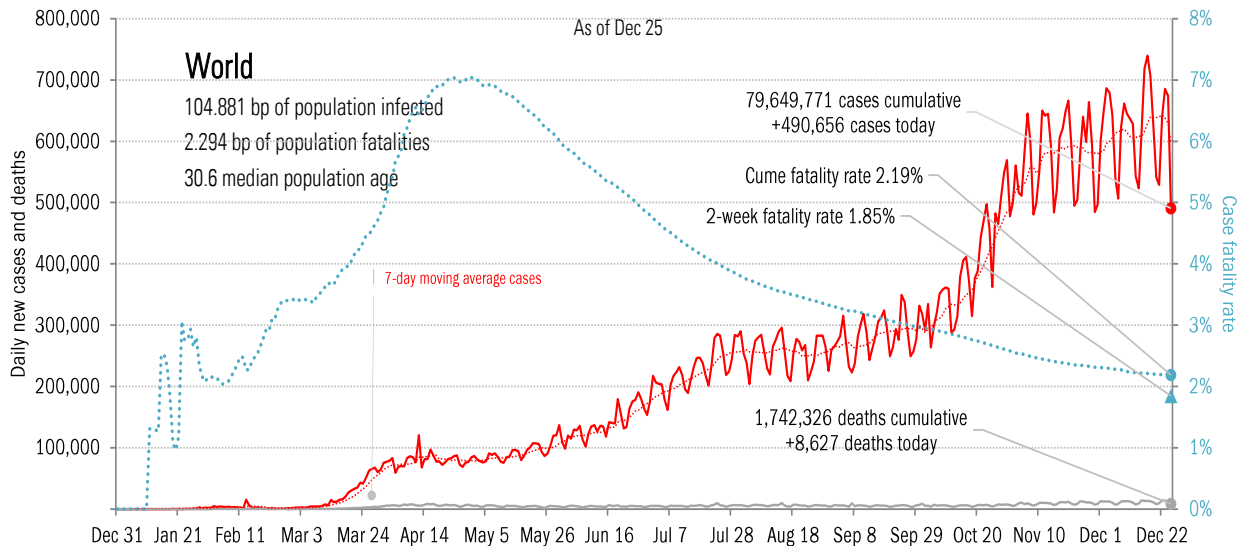
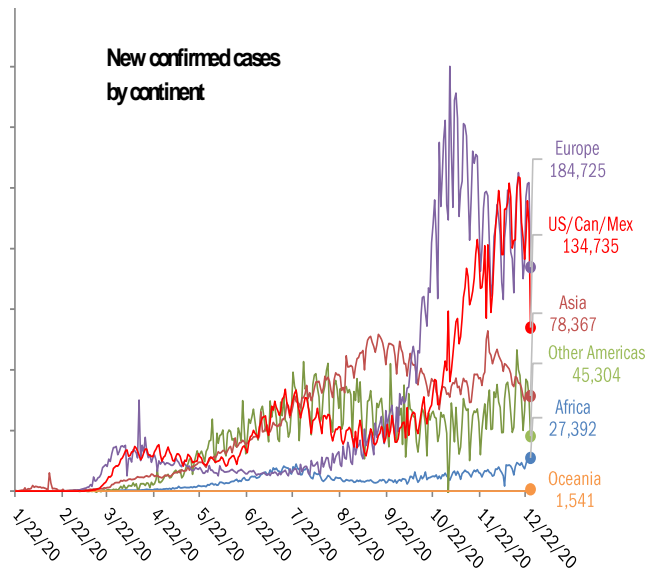


Data Insights: Covid-2019 Monitor

Saturday, December 26, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+124,498	United States	+1,541
United Kingdom	+32,803	Mexico	+665
Russia	+28,595	United Kingdom	+570
Brazil	+24,615	Russia	+551
India	+22,273	Brazil	+506
France	+20,262	Italy	+459
Italy	+19,037	South Africa	+293
Turkey	+17,543	Indonesia	+258
Colombia	+14,941	Turkey	+256
South Africa	+14,796	India	+251
+319,363		+5,350	
World	+490,656	World	+8,627
Top ten	65%	Top ten	62%



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

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

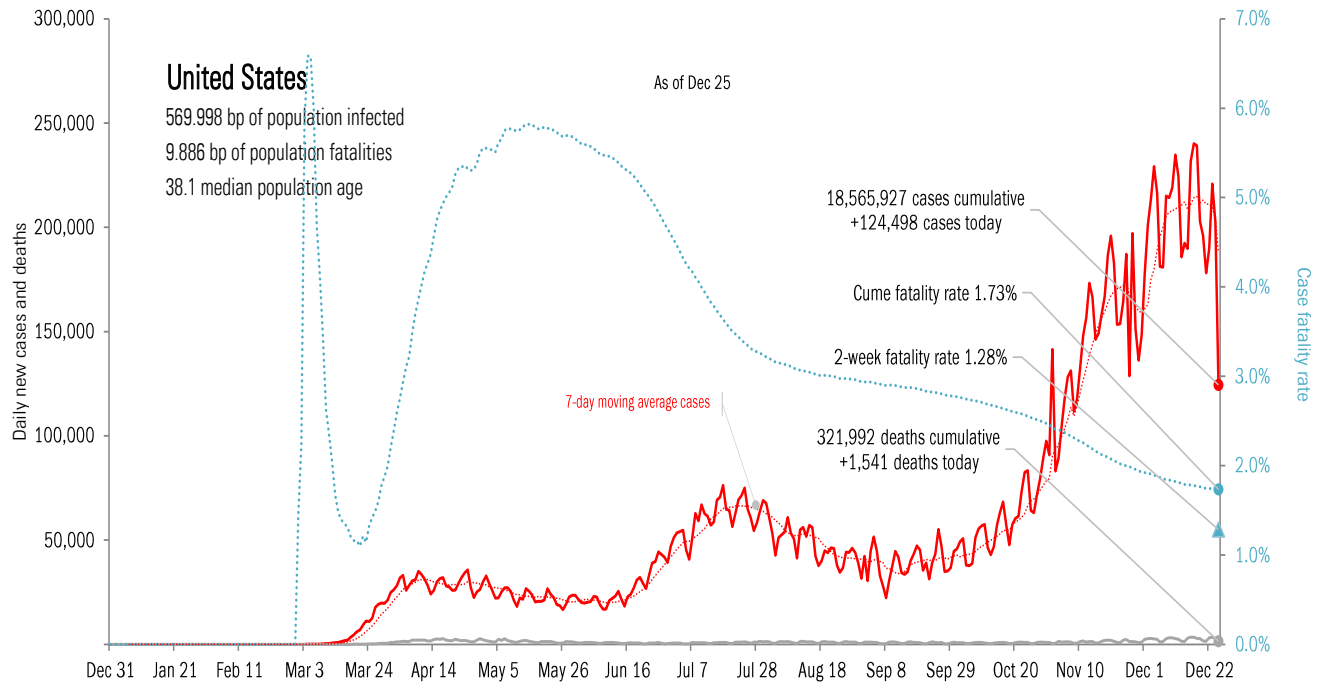
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
CA	+39,144		CA	+312		TX	+144		CA	2,042,290		NY	29,270		NY	89,995		R	90%	NM	96%
NY	+12,446		TX	+200		MO	+113		TX	1,657,857		TX	26,408		FL	61,922		GA	84%	NV	91%
PA	+7,174		IL	+194		NY	+22		FL	1,226,530		CA	23,947		NJ	46,202		MD	82%	AL	91%
AZ	+6,616		PA	+139		AZ	+5		IL	930,849		FL	21,295		GA	40,630		DC	82%	RI	90%
IL	+5,742		NY	+121		AK	+0		NY	903,716		NJ	18,595		CH	36,345		SC	82%	GA	89%
IN	+5,446		AZ	+115		AS	+0		CH	653,650		IL	17,154		AZ	34,977		NV	81%	OK	88%
GA	+5,125		NJ	+51		CA	+0		PA	597,560		PA	14,857		IN	33,664		FL	79%	CA	86%
NJ	+5,060		GA	+49		CT	+0		TN	546,497		MI	12,415		AL	31,954		CA	79%	MO	85%
TX	+4,335		IN	+40		DC	+0		GA	537,079		MA	11,963		MD	25,541		AZ	79%	DC	85%
VA	+4,078		CO	+36		ID	+0		MI	508,449		GA	10,631		MN	21,105		MA	78%	TX	84%
+95,166			+1,257			+284			9,604,477			186,535			422,335						
All states	+124,498			+1,541			-1203		All states	18,565,927			321,992			662,675		All states	73%		78%
Top ten	76%			82%			-24%		Top ten	52%			58%			64%		Median	71%		76%

Some states not reporting

Five most improved US states

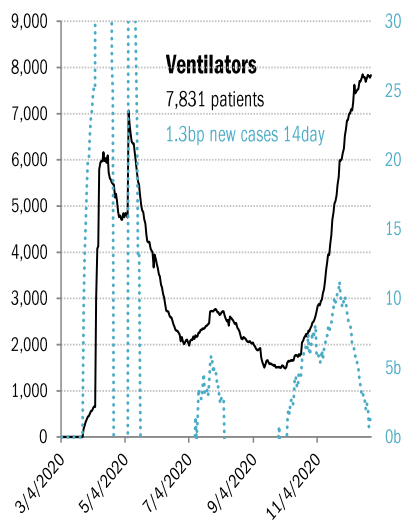
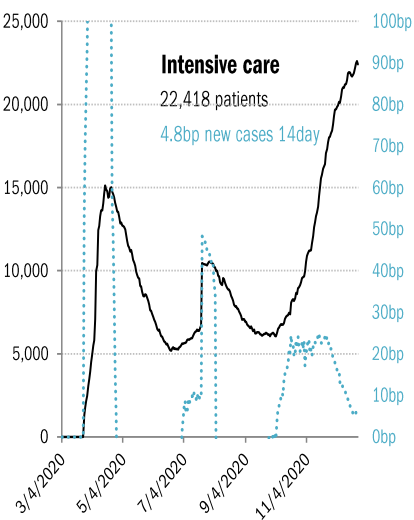
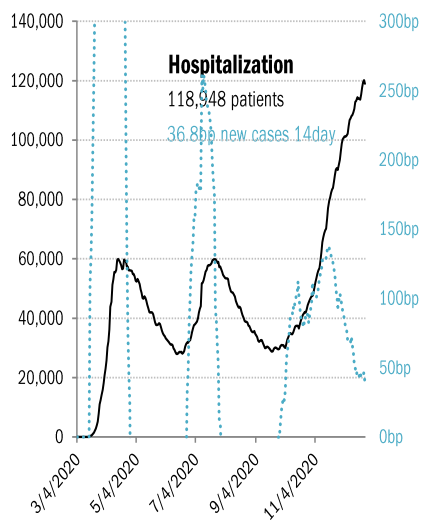
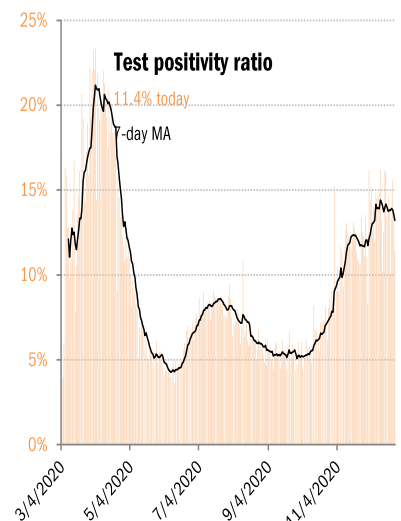
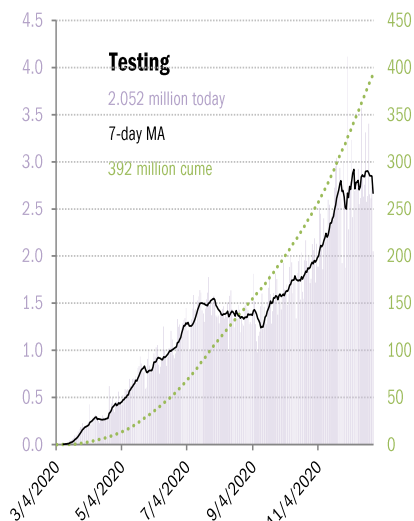
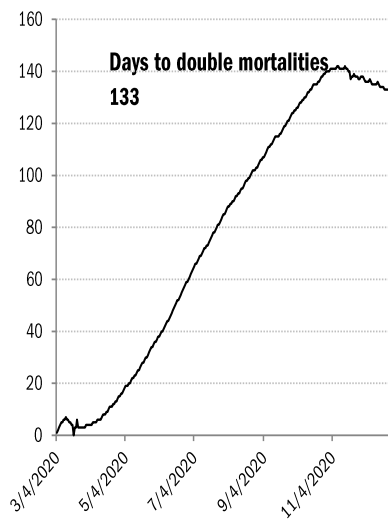
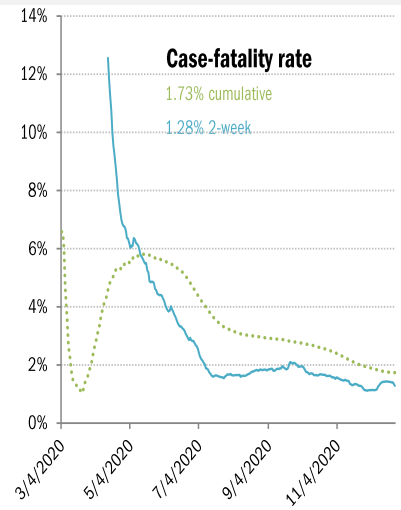
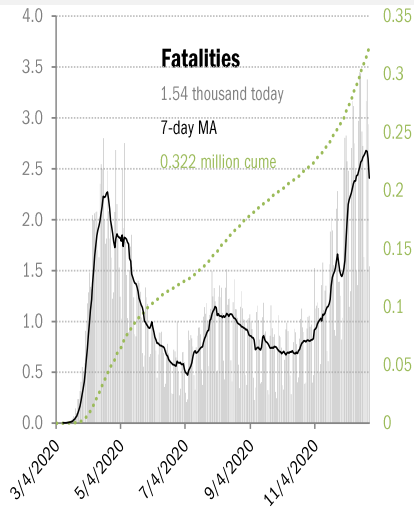
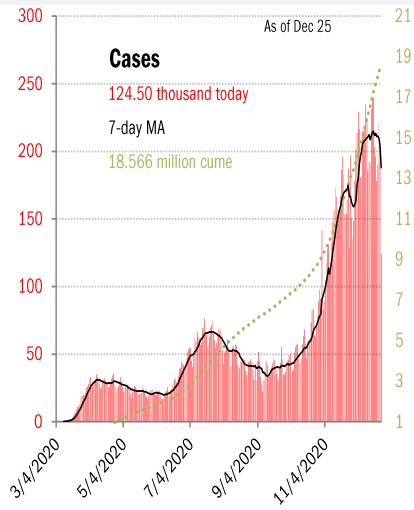
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
FL	-12,770	PA	-137	WA	-430	TX	+5,938
TX	-12,729	FL	-122	CA	-410	IN	+5,204
CH	-8,828	TX	-108	OK	-215	WI	+3,220
MA	-5,937	CH	-95	FL	-191	NE	+2,267
TN	-5,257	AL	-85	GA	-107	AR	+2,090



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

US deep-dive

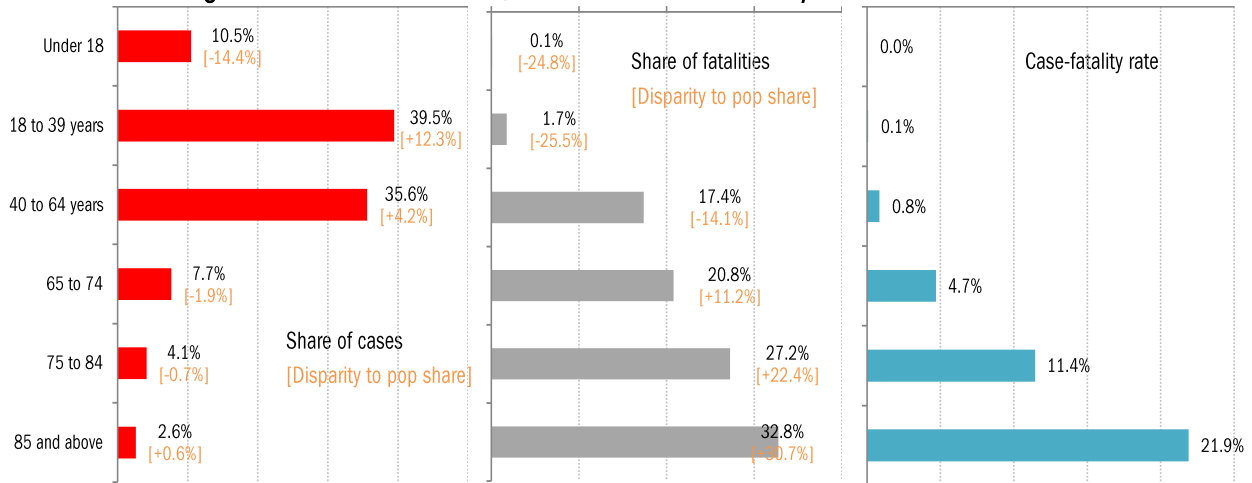
National and state-by-state data do not line up because of different sources



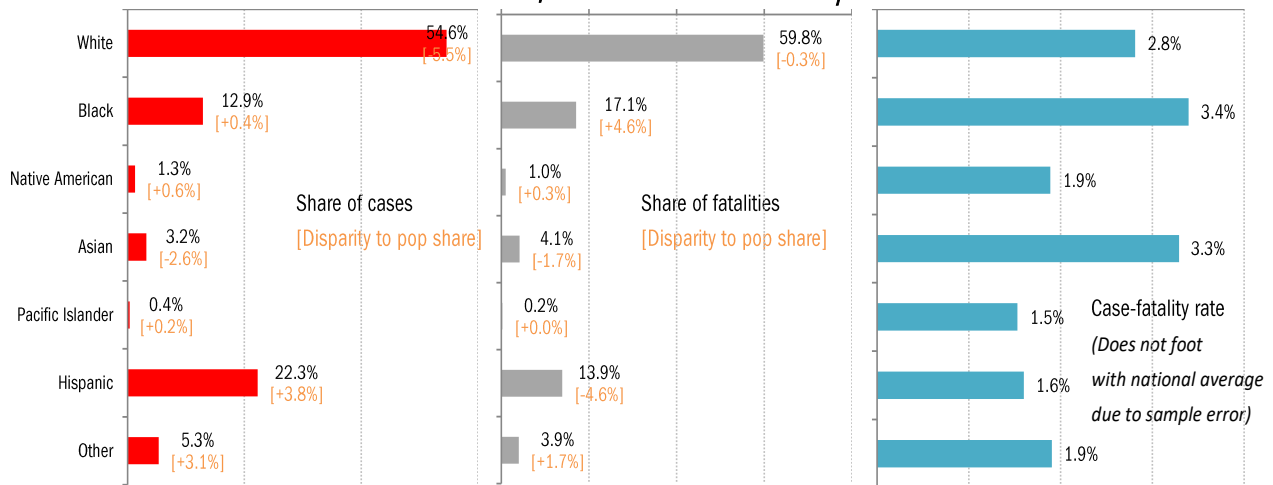
Source: [Covid Tracking Project](https://covidtracking.com), TrendMacro calculations

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

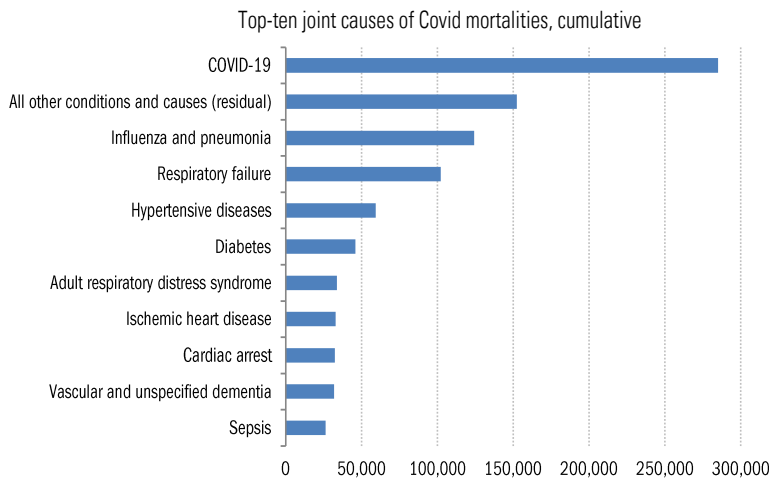
Age distribution of US cases, fatalities and case-fatality rates



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

[Covid-19 Patient Is Bludgeoned to Death in California Hospital](#)

Concepción de León
New York Times
December 24, 2020

[Hospital Workers Start to 'Turn Against Each Other' to Get Vaccine](#)

Joseph Goldstein
New York Times
December 24, 2020

['Vodka in Your Coffee Cup': When Pandemic Drinking Goes Too Far](#)

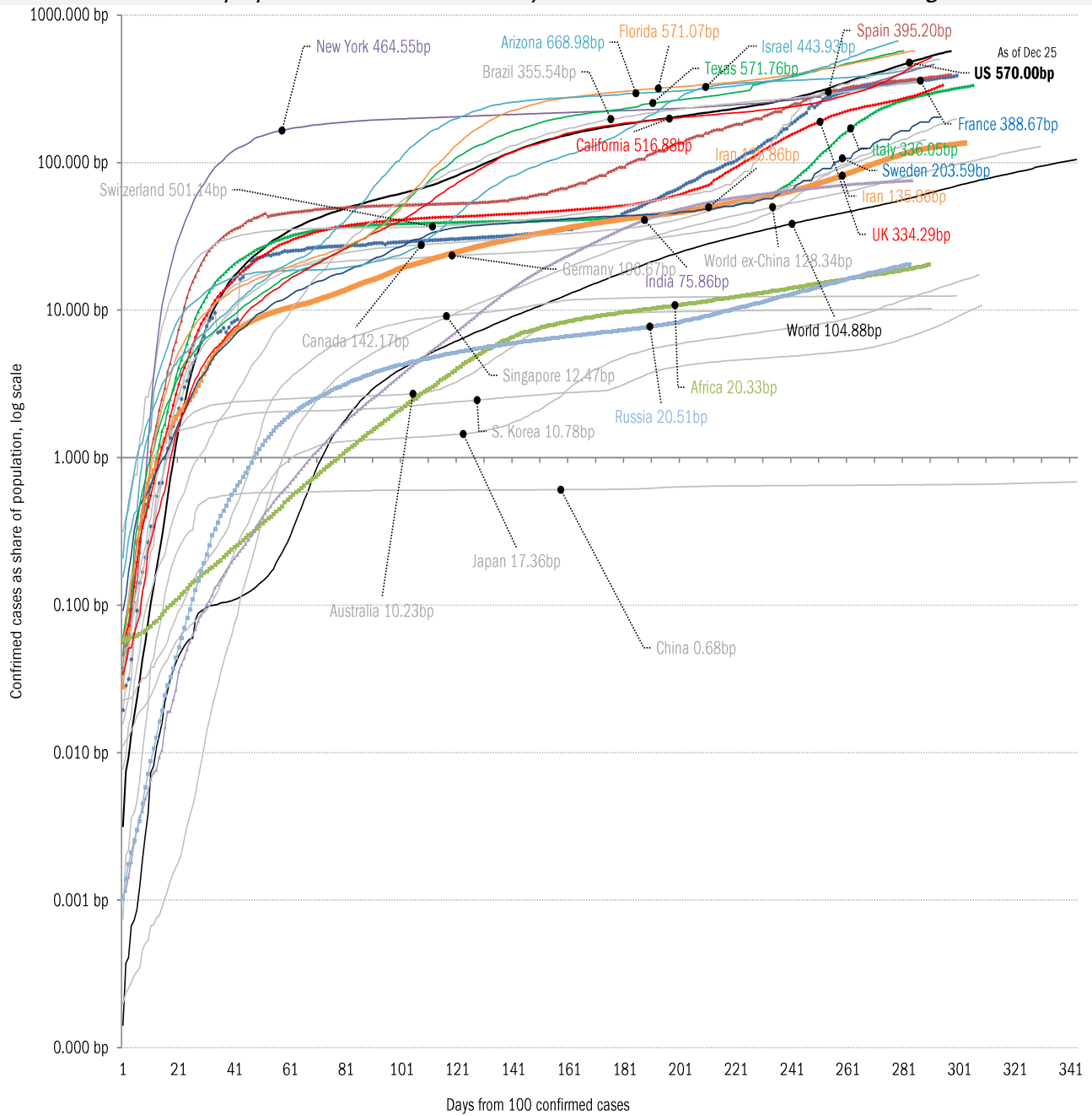
Alix Strauss
New York Times
December 25, 2020

Meme of day



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

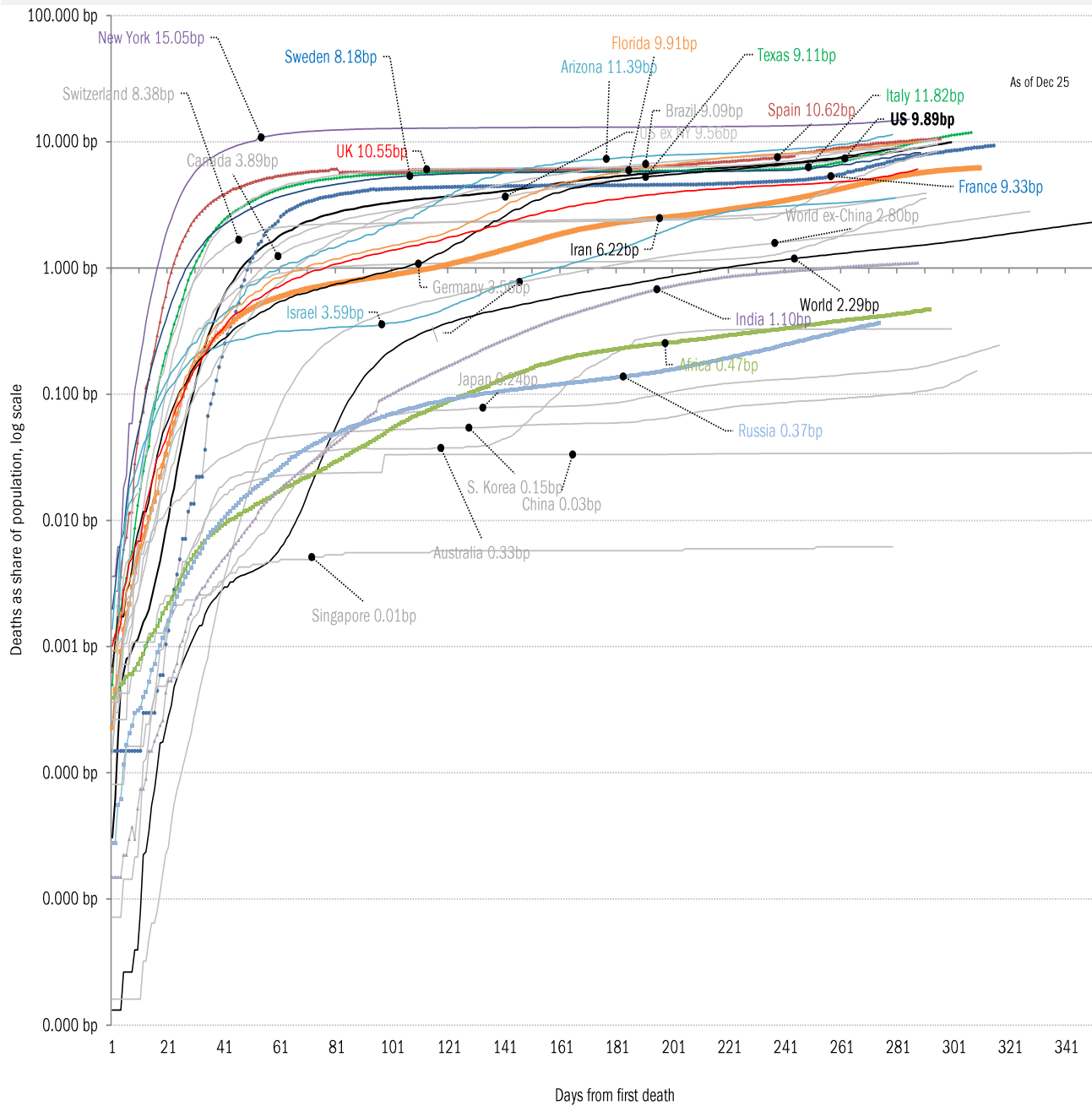
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

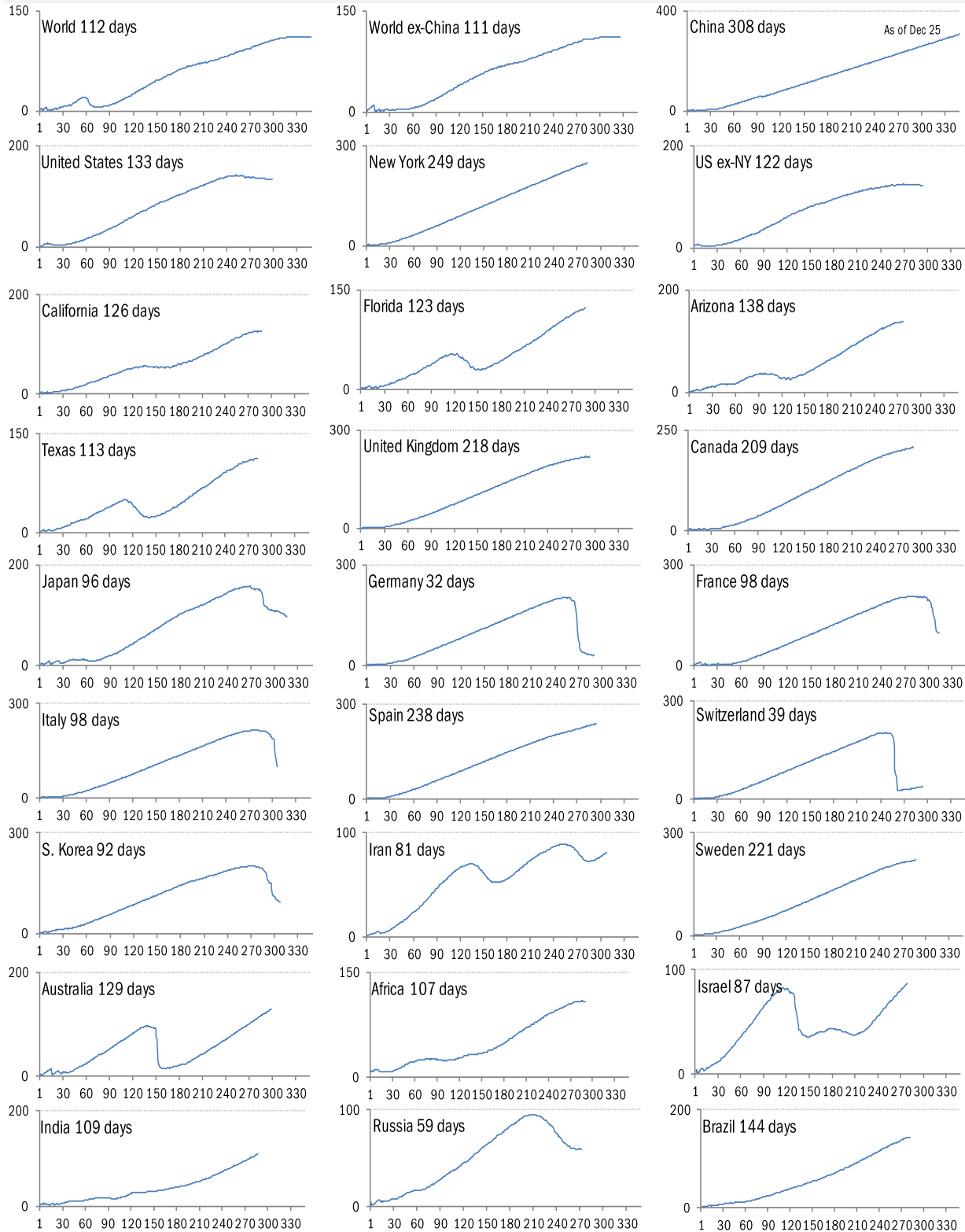


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-19

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

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

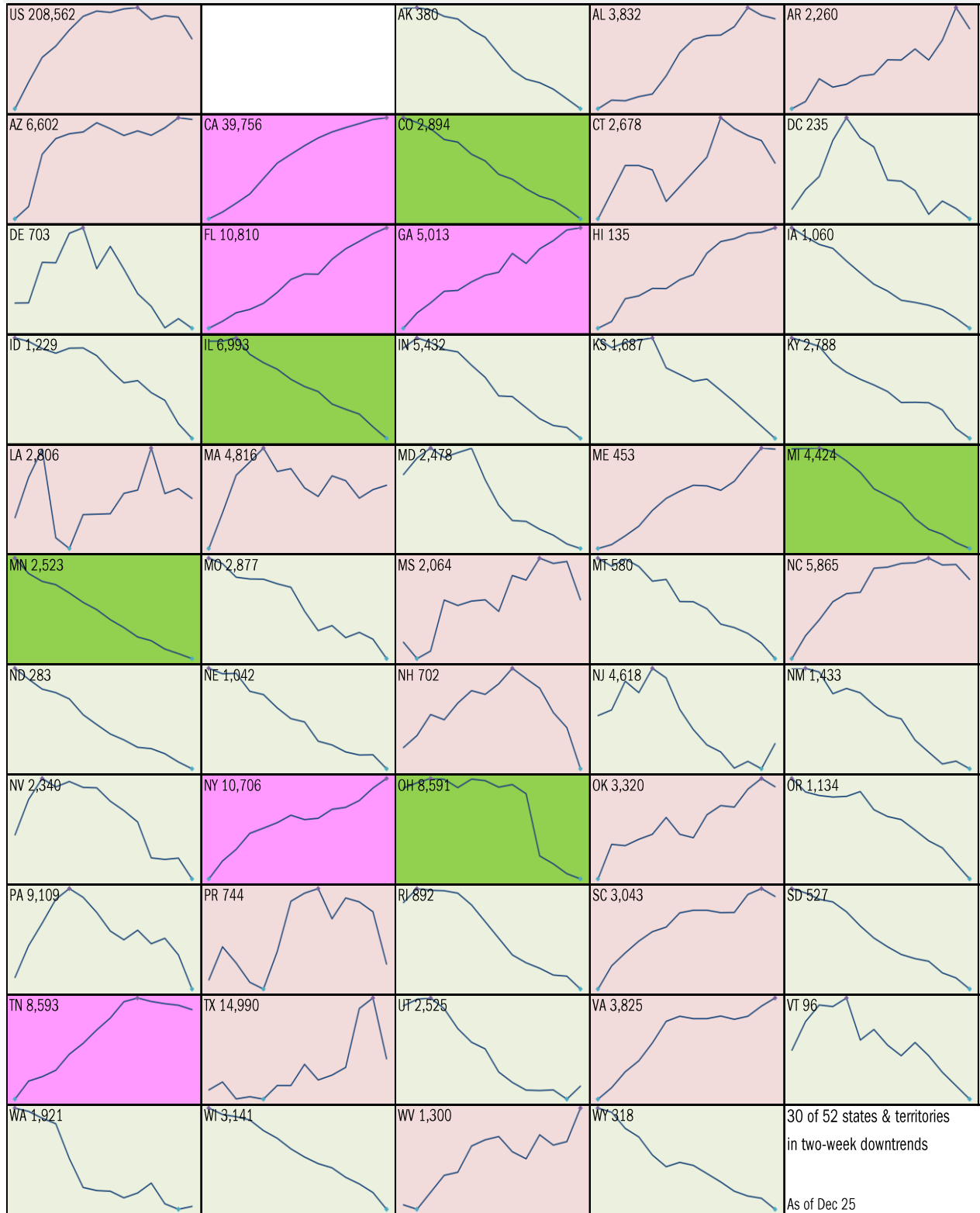


Source: [Johns Hopkins, Covid Tracking Project](#), TrendMacro calculations

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

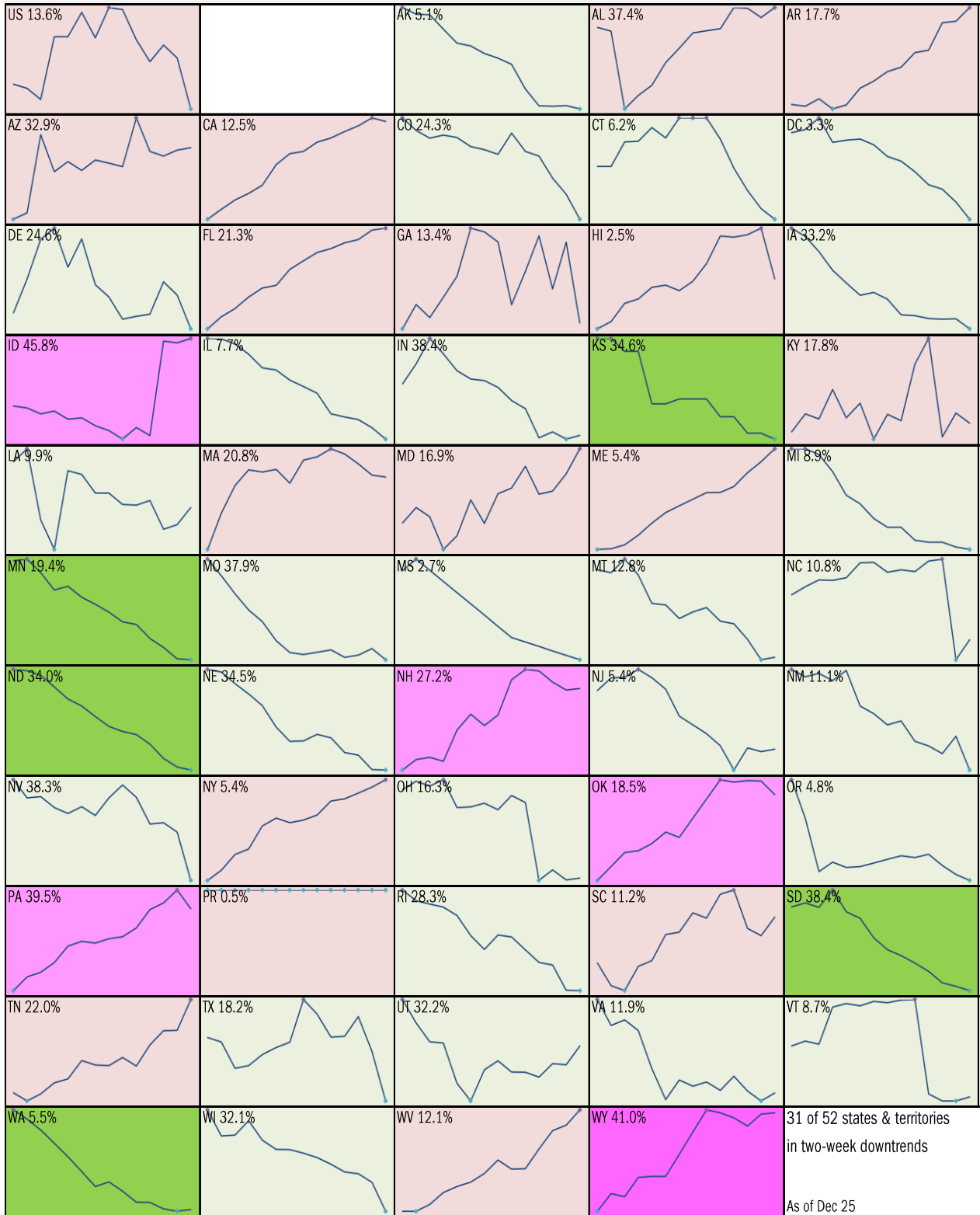
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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



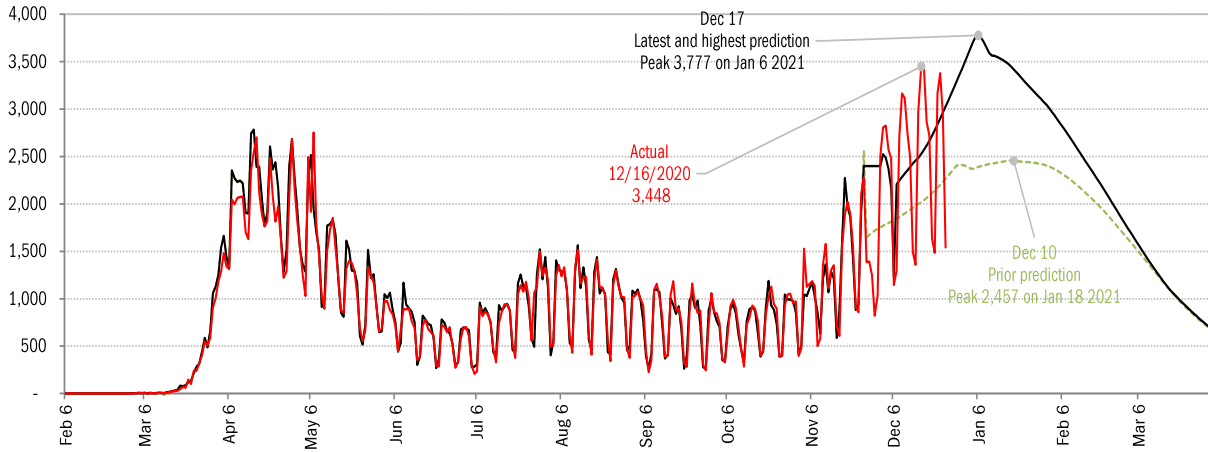
Source: [Covid Tracking Project](#), TrendMacro calculations

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

New daily fatalities

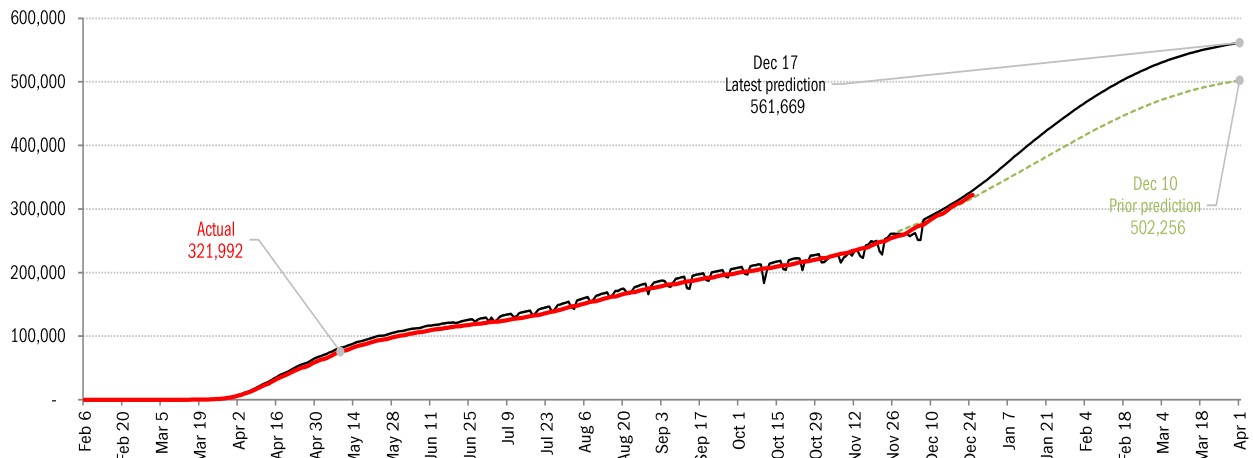
As of Dec 25

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

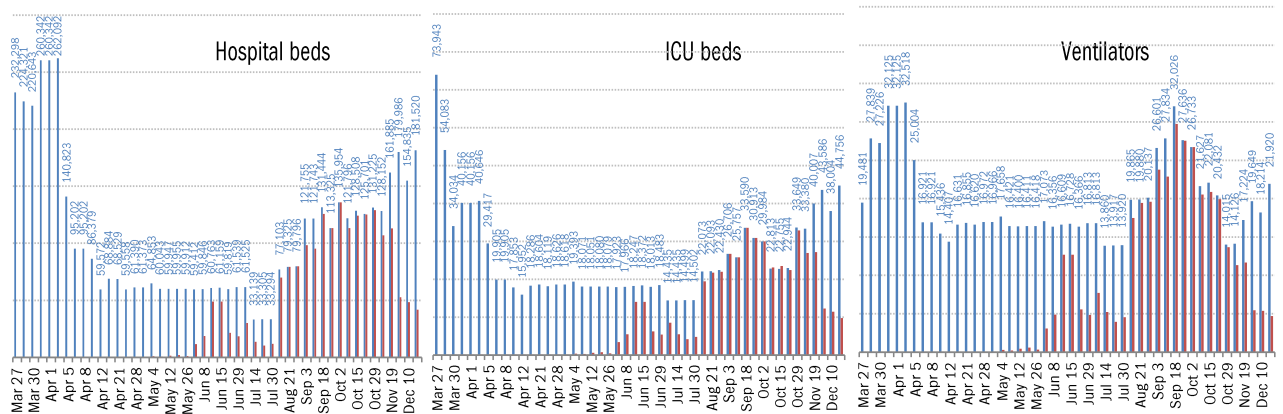


Cumulative fatalities

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

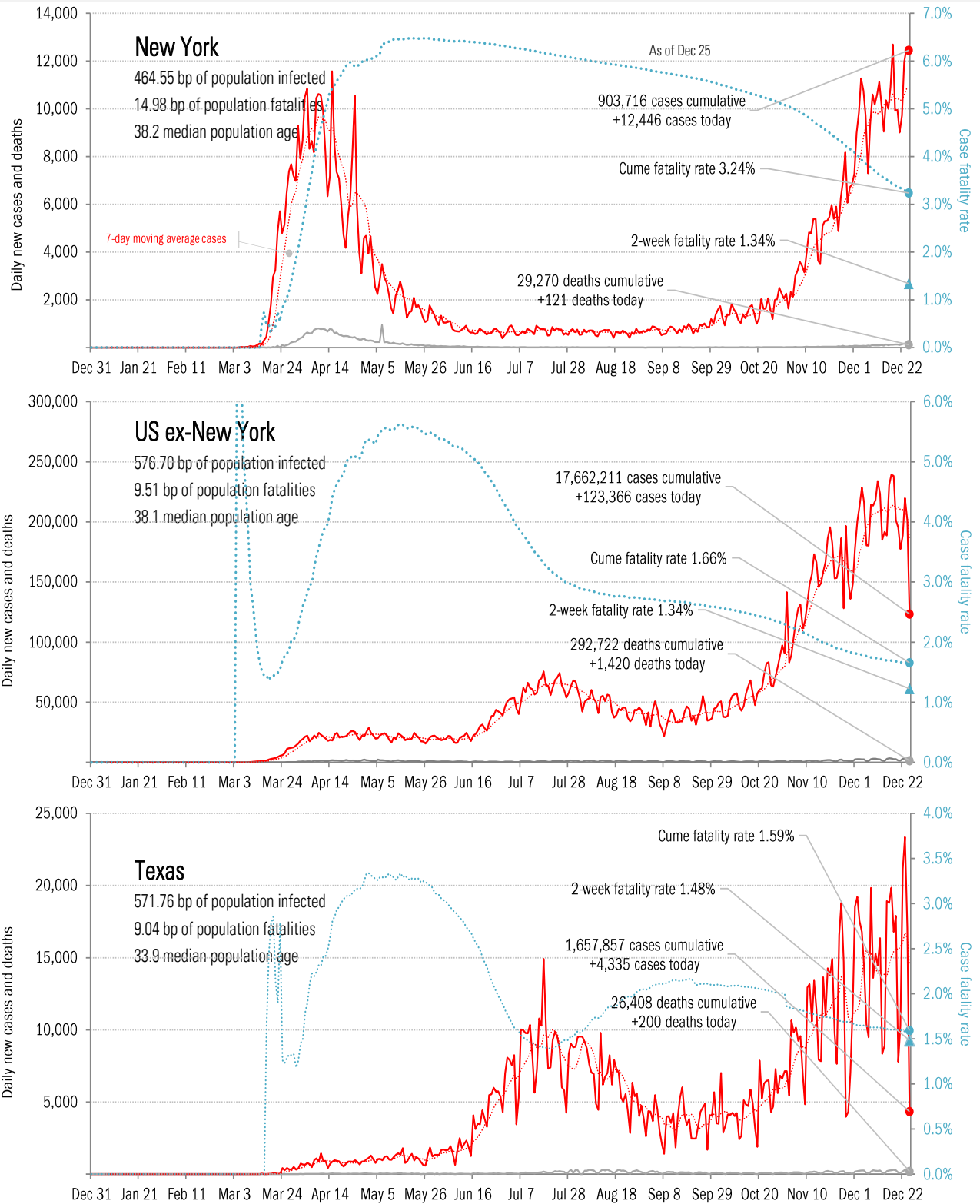


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



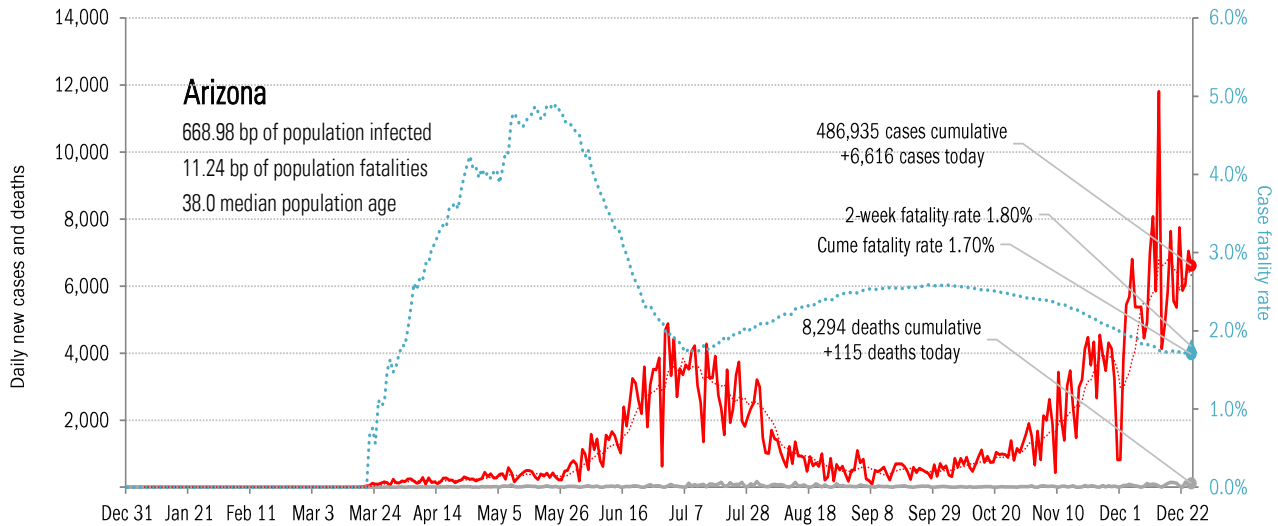
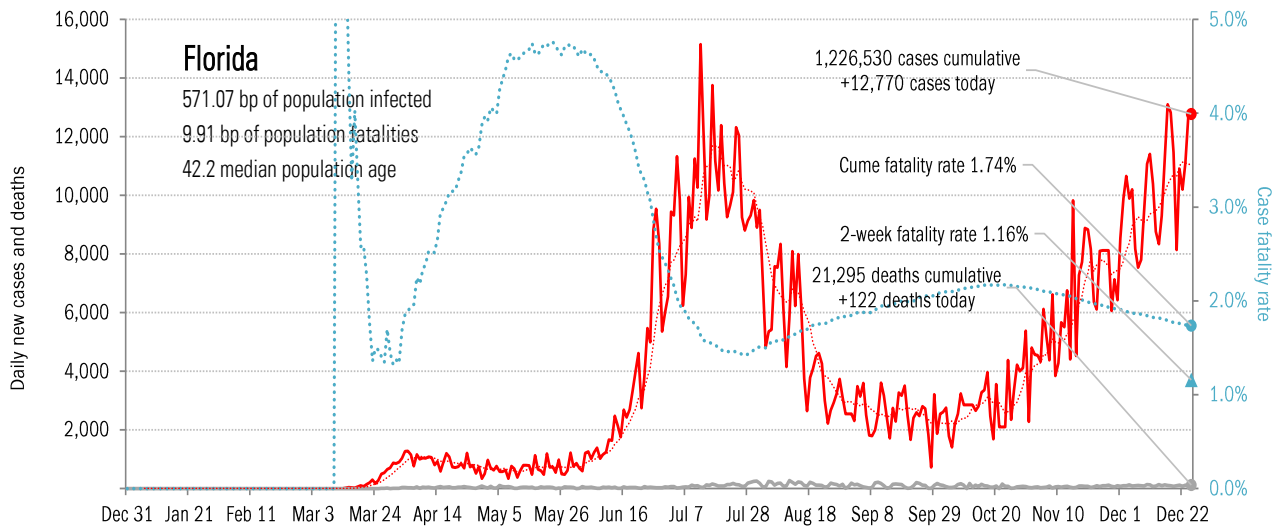
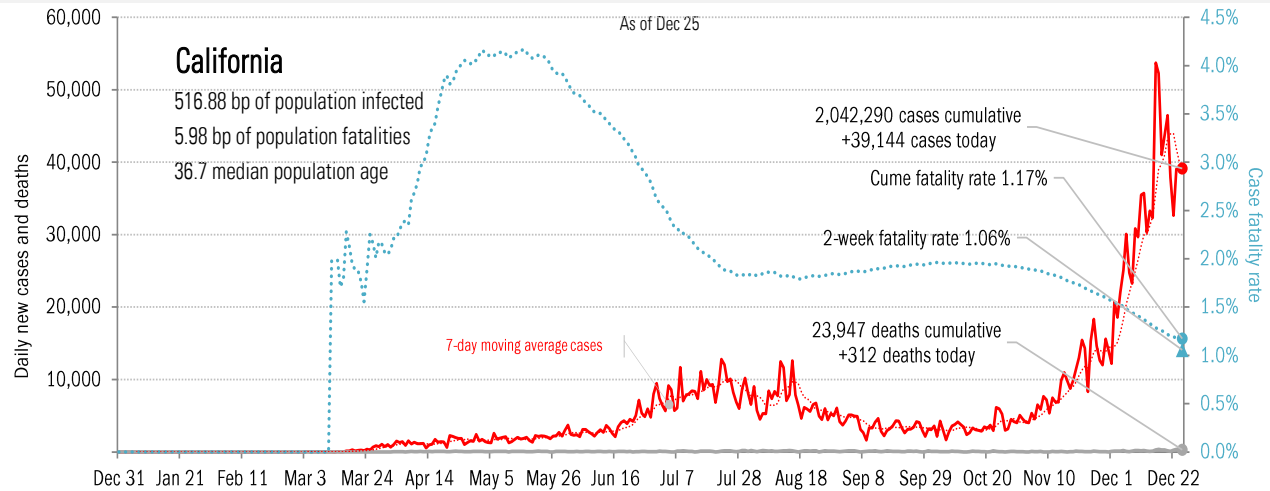
Source: [IHME Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



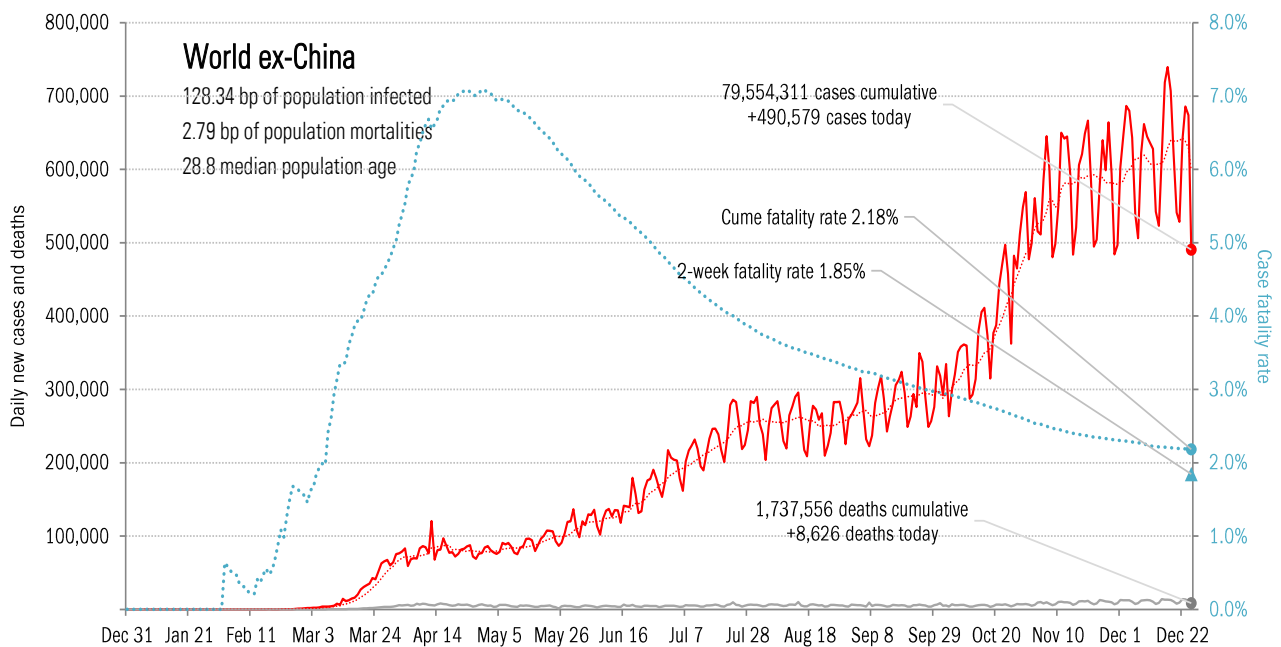
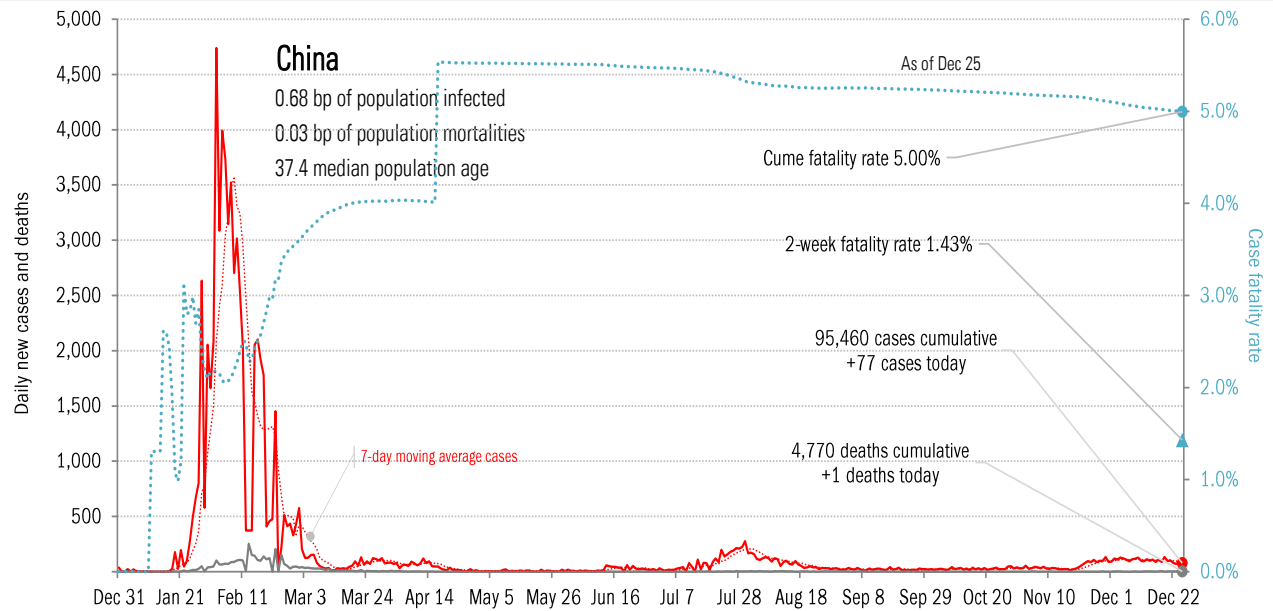
Source: [Covid Tracking Project](#), TrendMacro calculations

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



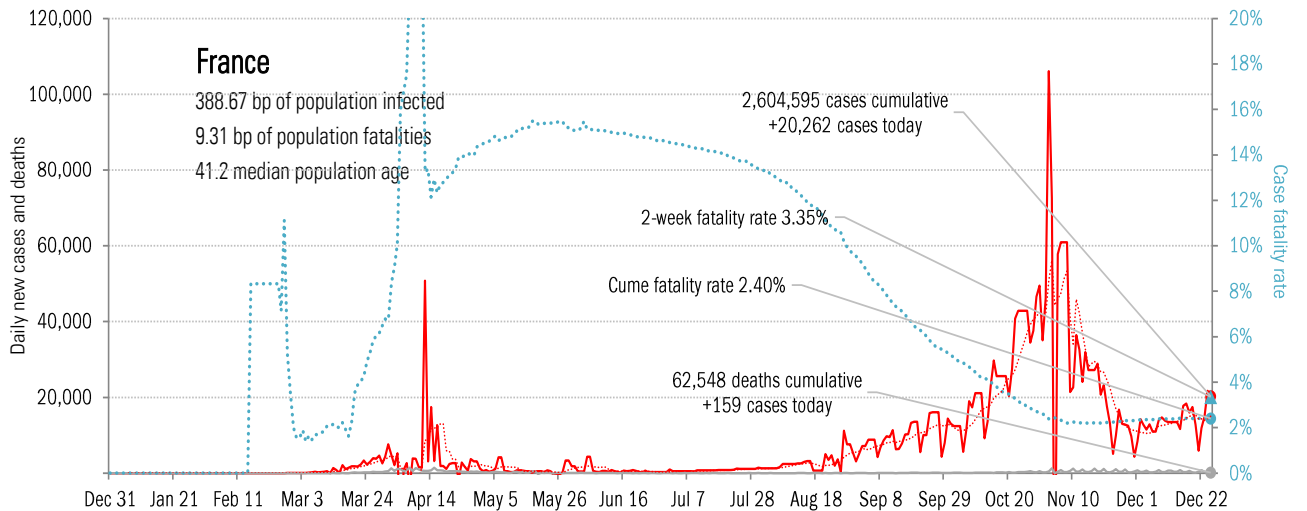
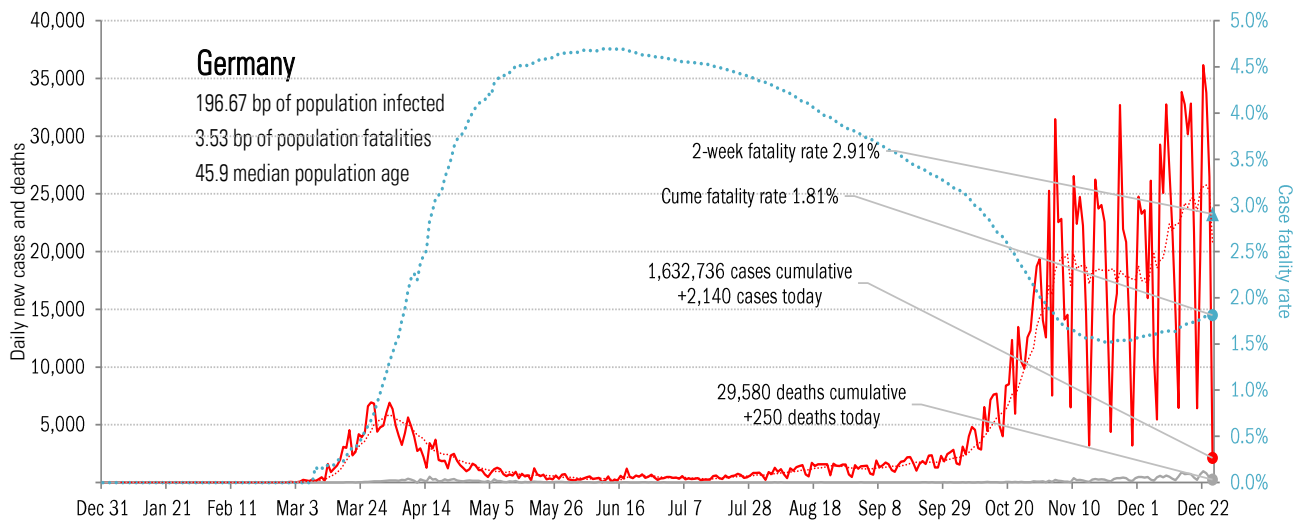
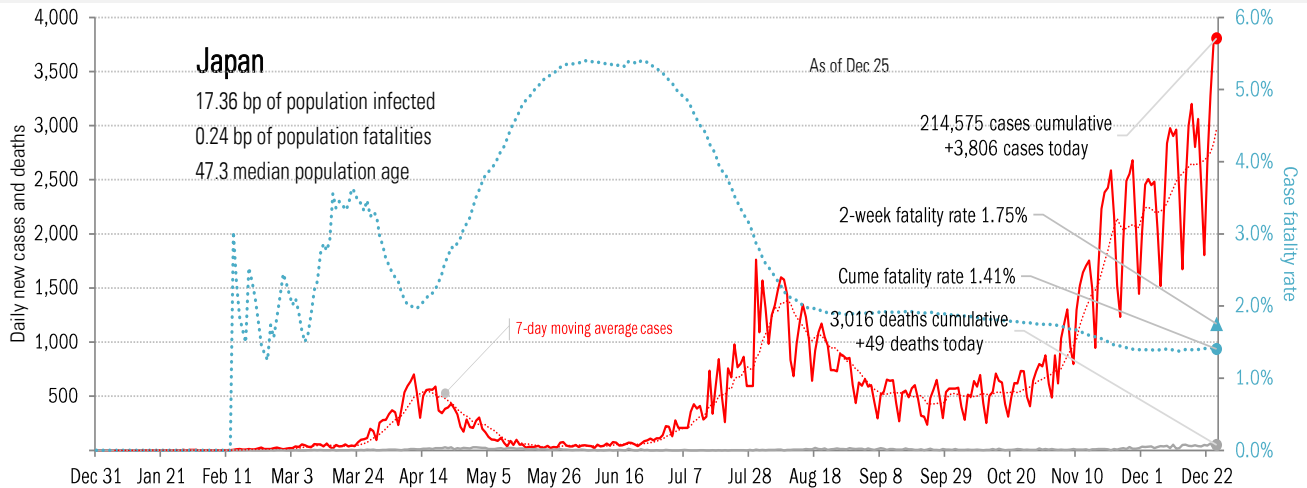
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



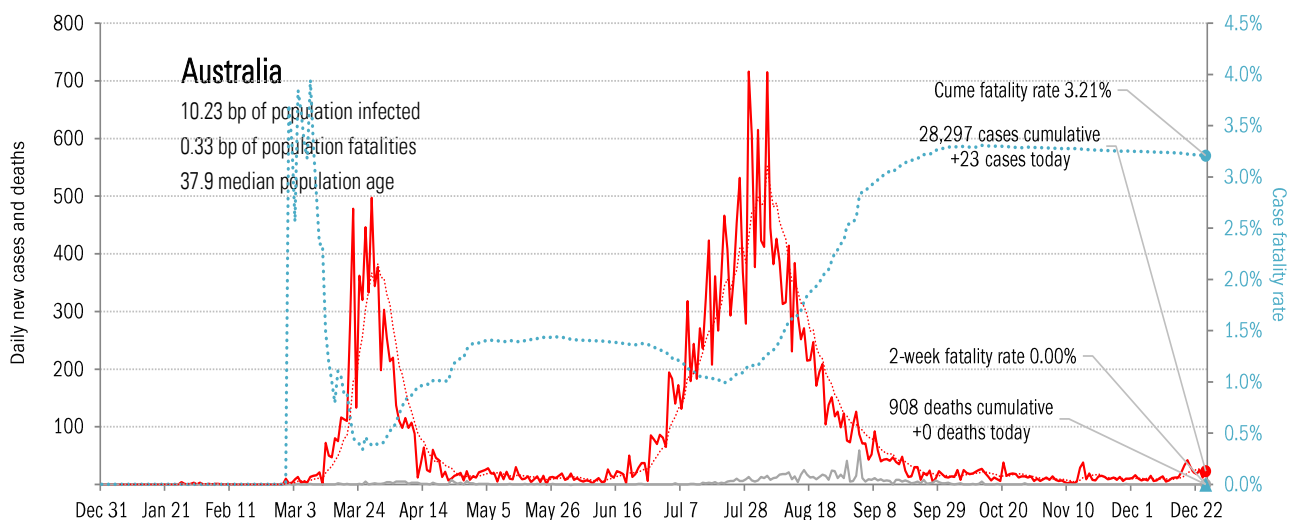
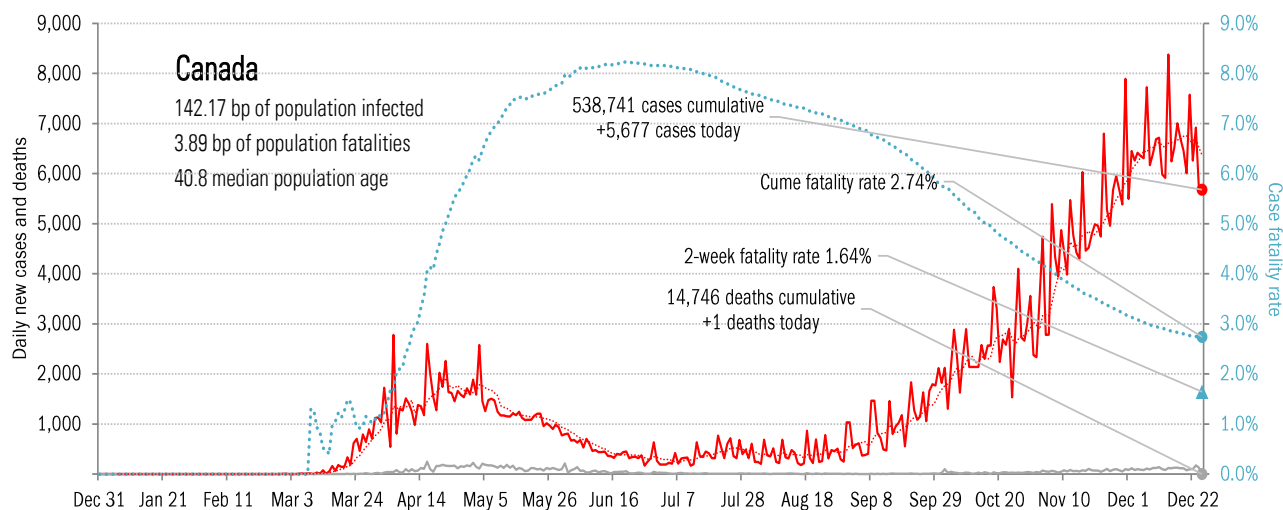
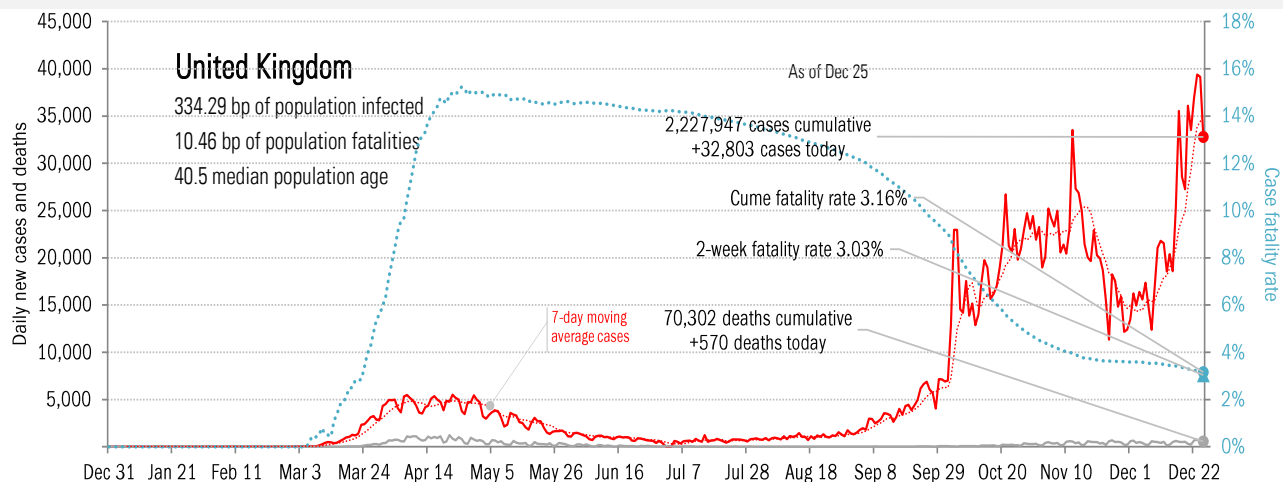
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



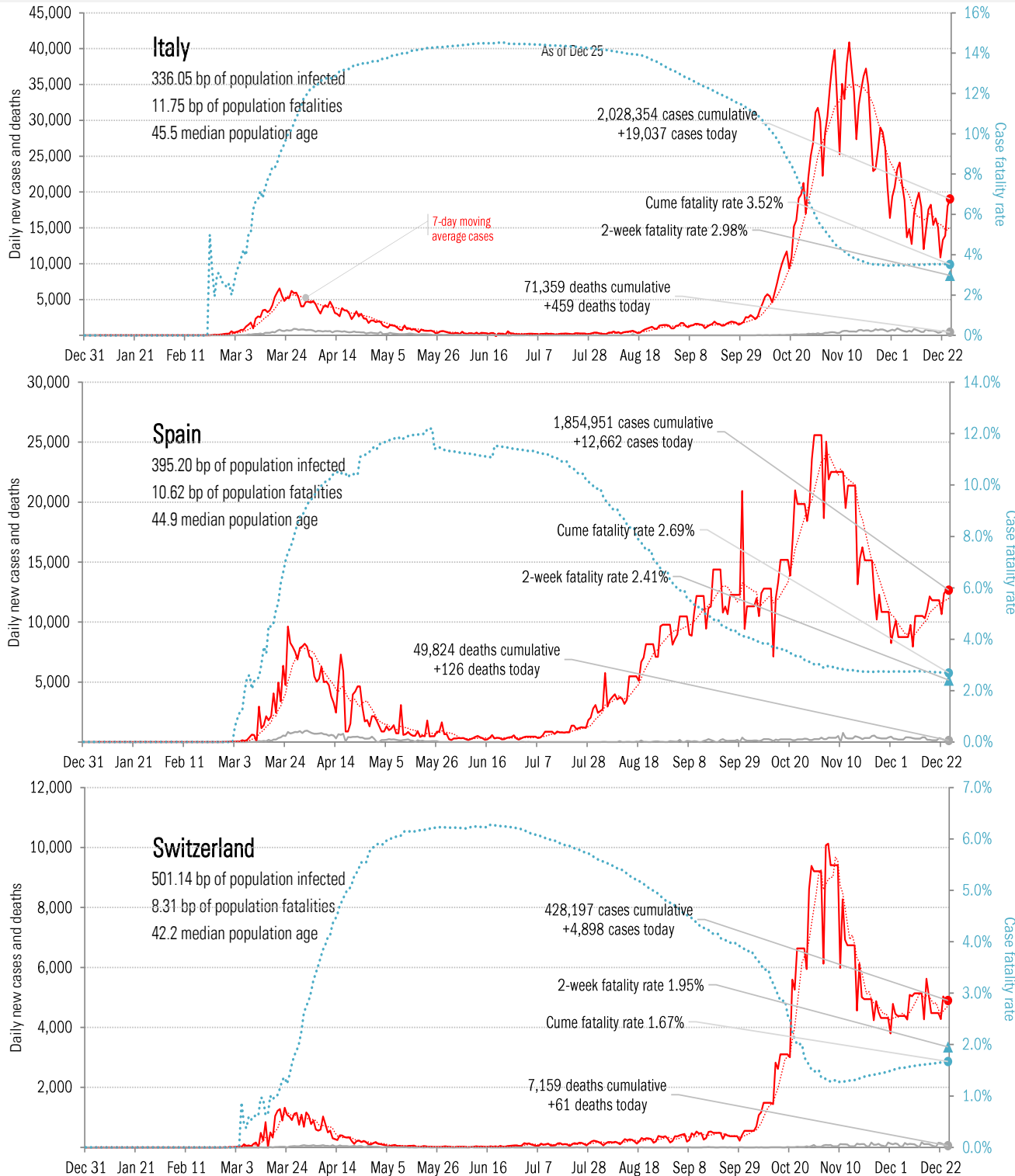
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



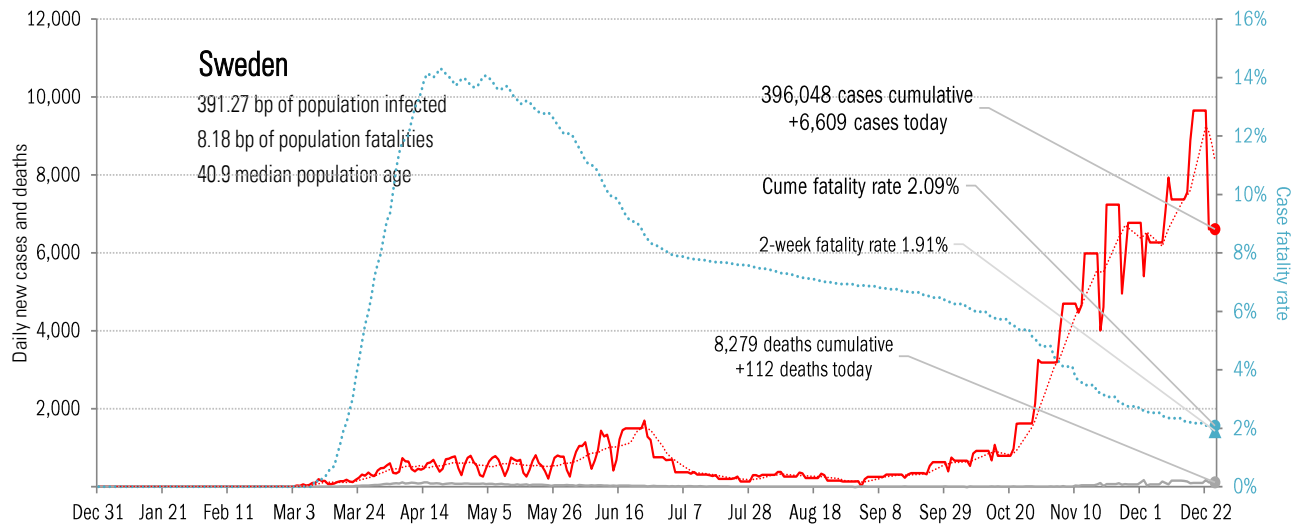
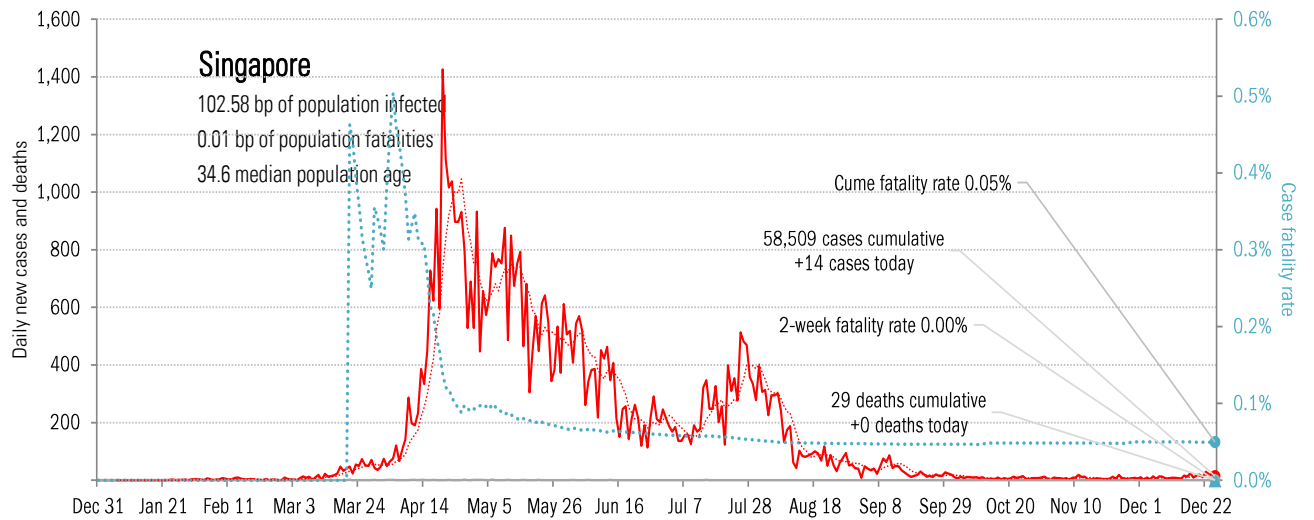
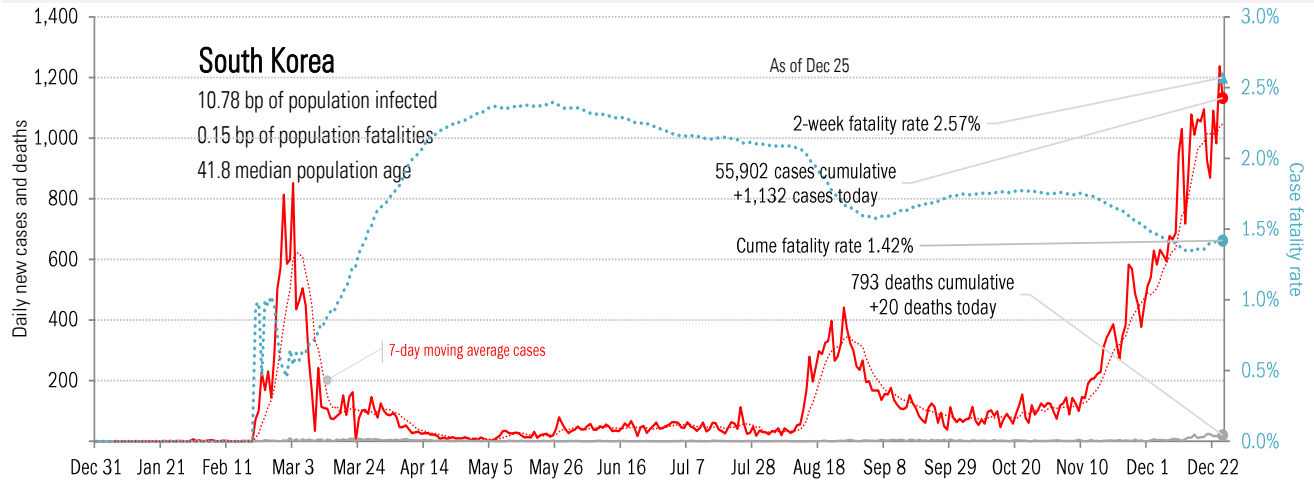
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



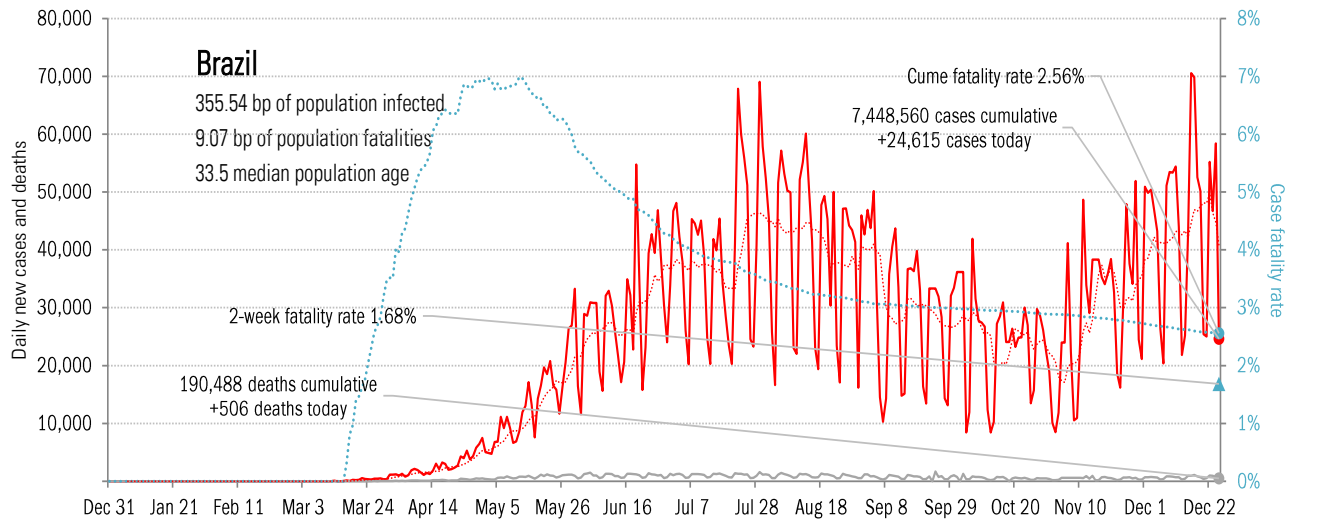
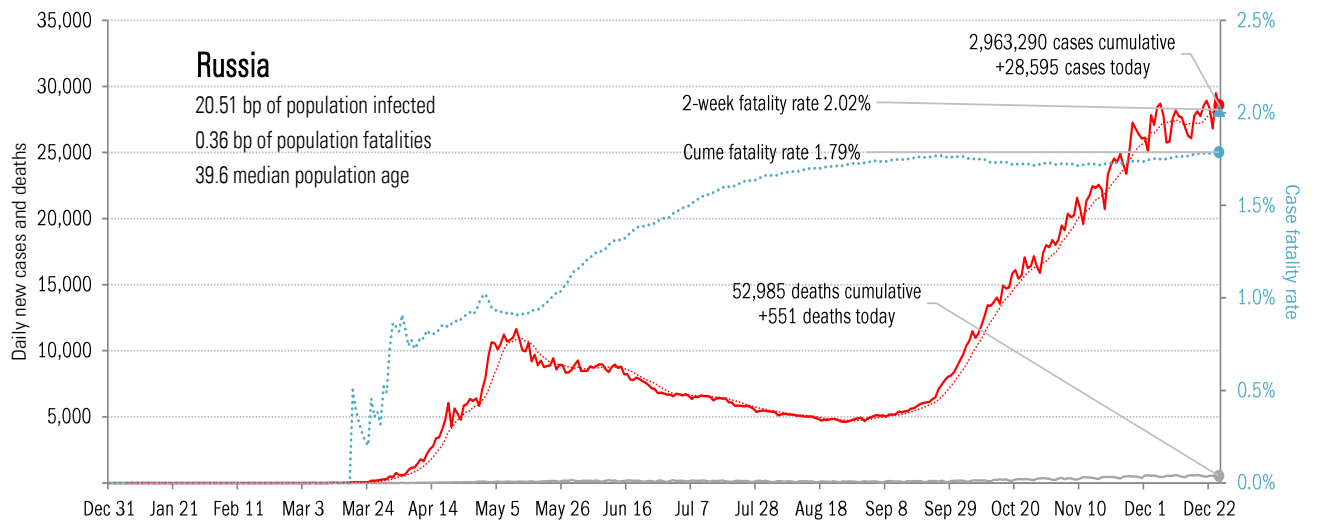
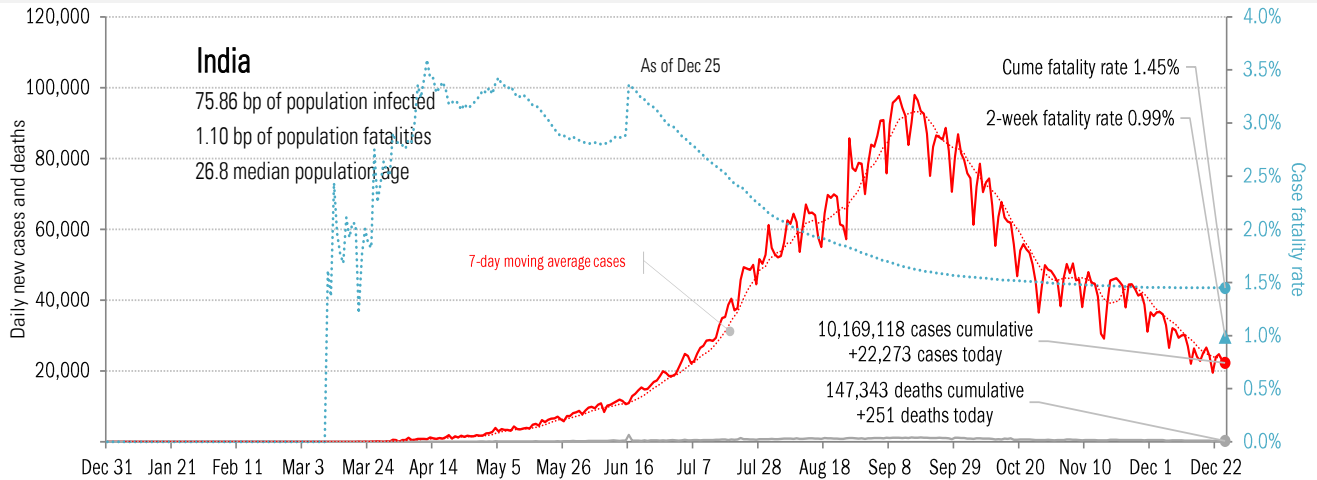
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



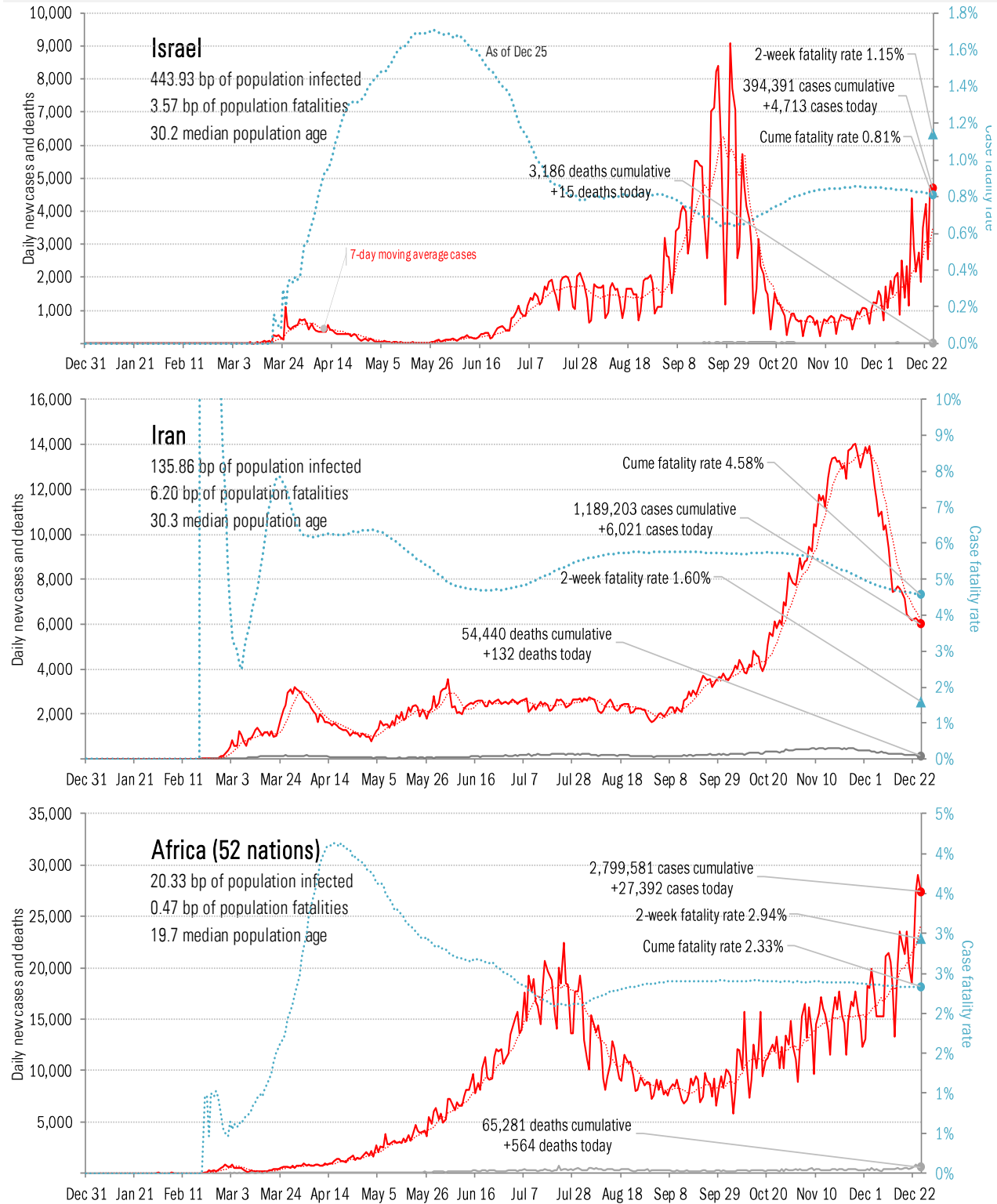
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



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

Impact in the Middle East and Africa



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