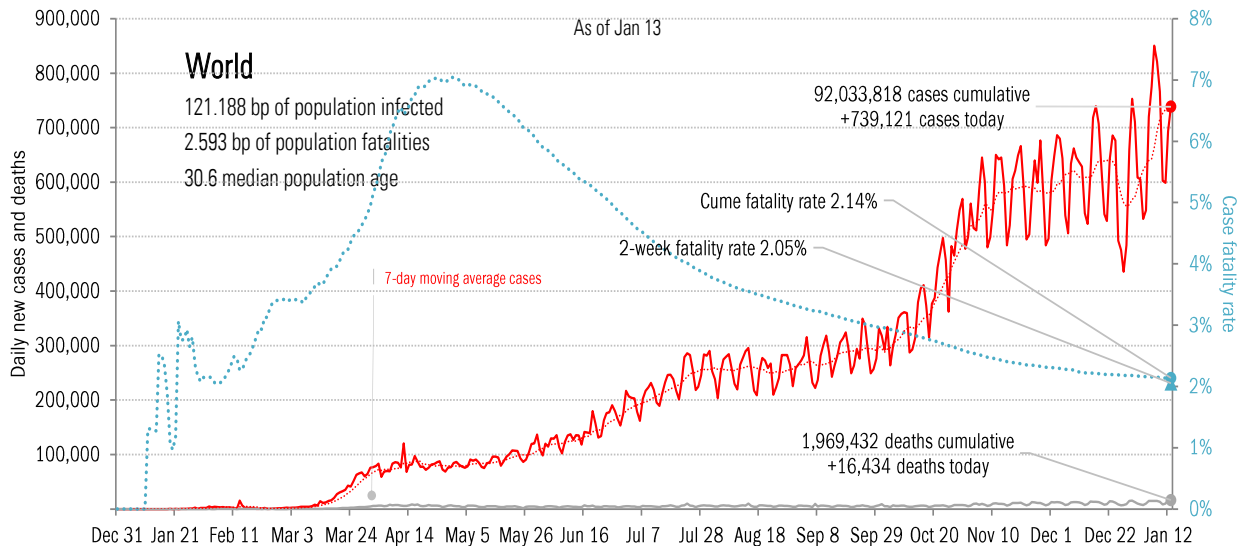
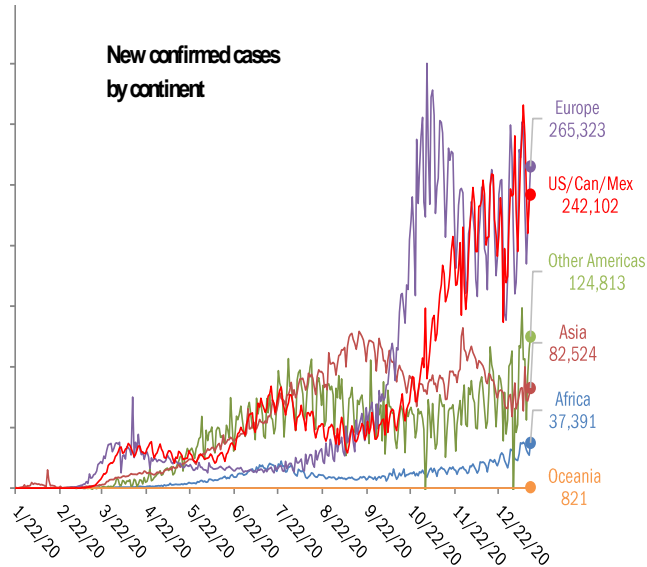


Data Insights: Covid-2019 Monitor

Thursday, January 14, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+219,090	United States	+4,022
Brazil	+60,899	United Kingdom	+1,568
United Kingdom	+47,662	Brazil	+1,274
Spain	+38,869	Mexico	+1,235
Germany	+25,566	Germany	+1,207
France	+23,932	South Africa	+806
Russia	+22,544	Russia	+555
South Africa	+18,555	Italy	+507
India	+16,946	Poland	+481
Colombia	+15,898	Colombia	+342
World		World	
+489,961		+11,997	
World +739,121		World +16,434	
Top ten 66%		Top ten 73%	



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

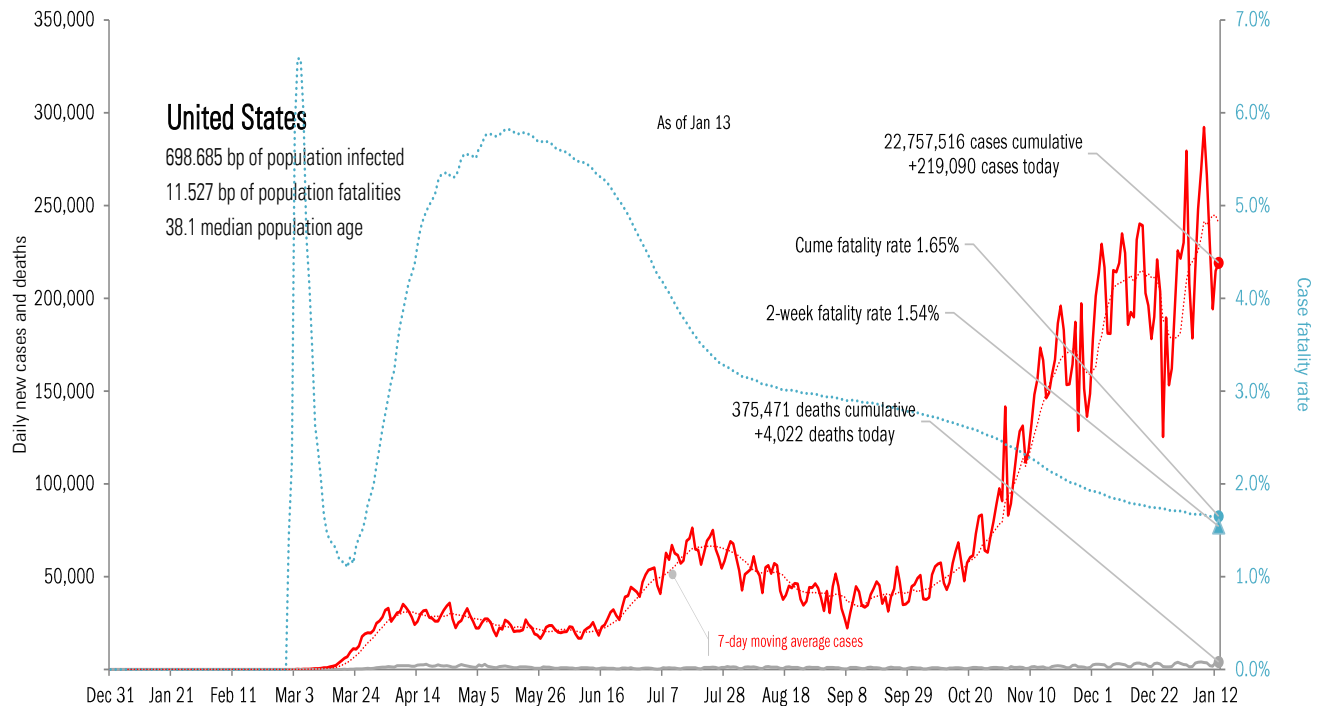
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
CA	+33,751		CA	+589		KS	+302		CA	2,781,039		NY	32,175		NY	89,995		RI	90%	AL	96%
TX	+27,343		TX	+405		IL	+89		TX	2,022,635		CA	31,102		FL	67,598		GA	89%	GA	94%
NY	+14,577		PA	+349		VA	+24		FL	1,490,148		TX	30,624		NJ	53,814		SC	88%	RI	91%
FL	+13,664		AZ	+191		NJ	+23		NY	1,169,947		FL	23,759		GA	45,533		MD	86%	OK	91%
PA	+7,960		AL	+187		SC	+13		IL	1,046,030		NJ	20,161		AZ	44,863		DC	84%	CA	89%
NJ	+7,880		FL	+174		SD	+13		OH	799,639		IL	19,617		CH	42,151		FL	83%	NM	89%
CH	+6,701		NY	+168		MT	+12		PA	741,389		PA	18,429		AL	38,229		CA	81%	TN	89%
SC	+6,021		GA	+141		GA	+11		TN	665,499		MI	14,336		IN	37,679		PA	81%	TX	88%
MA	+5,918		TN	+137		NC	+11		GA	654,356		MA	13,359		MD	28,986		AZ	81%	MS	87%
IL	+5,862		NJ	+122		DC	+10		AZ	641,729		GA	11,803		MN	23,018		MA	81%	SC	87%
+129,677			+2,463			+508			12,012,411			215,365			471,866			All states 76%		80%	
All states +219,090			+4,022			-943			All states 22,757,516			375,471			753,633			All states 76%		80%	
Top ten 59%			61%			-54%			Top ten 53%			57%			63%			Median 73%		78%	

Some states not reporting

Five most improved US states

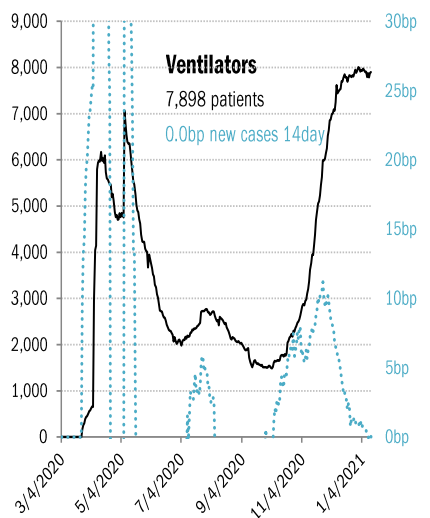
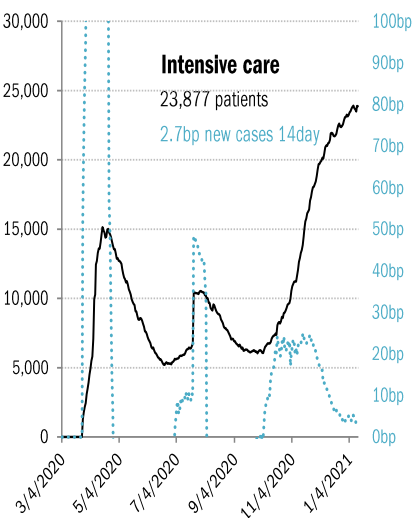
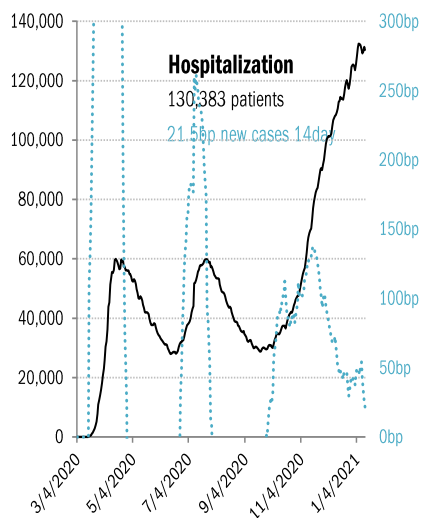
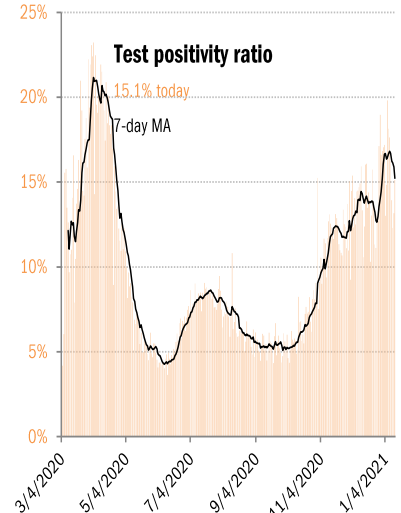
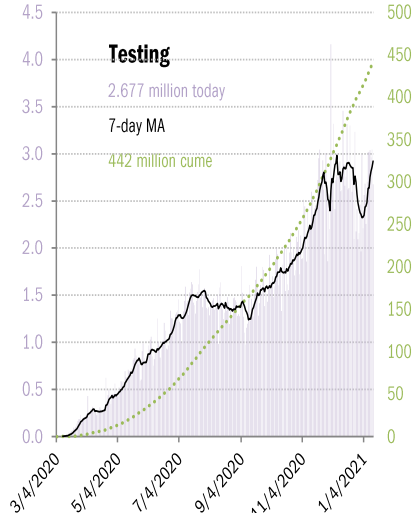
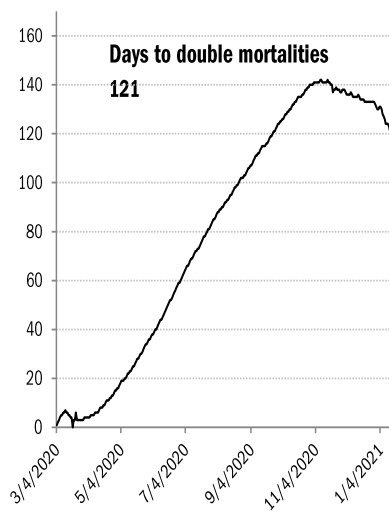
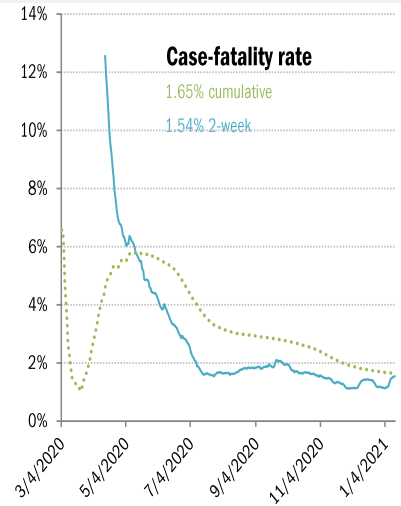
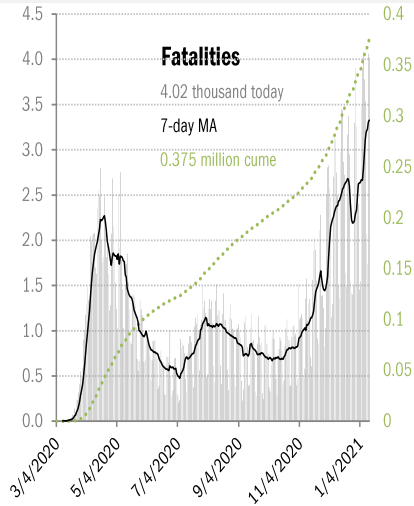
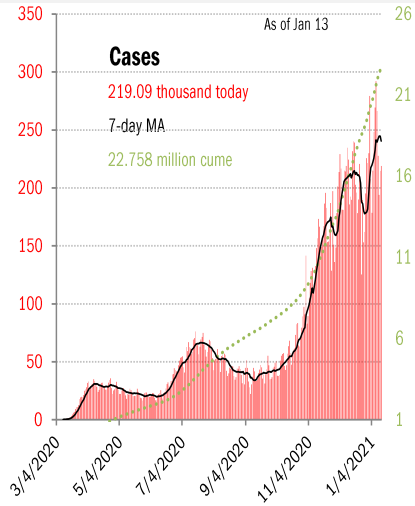
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
WA	-3,233	MO	-188	TX	-933	LA	+18,241
AR	-3,209	AZ	-144	NY	-278	TX	+16,588
AZ	-2,930	IA	-73	MI	-244	PA	+13,304
CA	-2,736	MS	-67	FL	-206	TN	+9,629
LA	-1,809	MI	-64	CA	-147	CH	+7,709



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

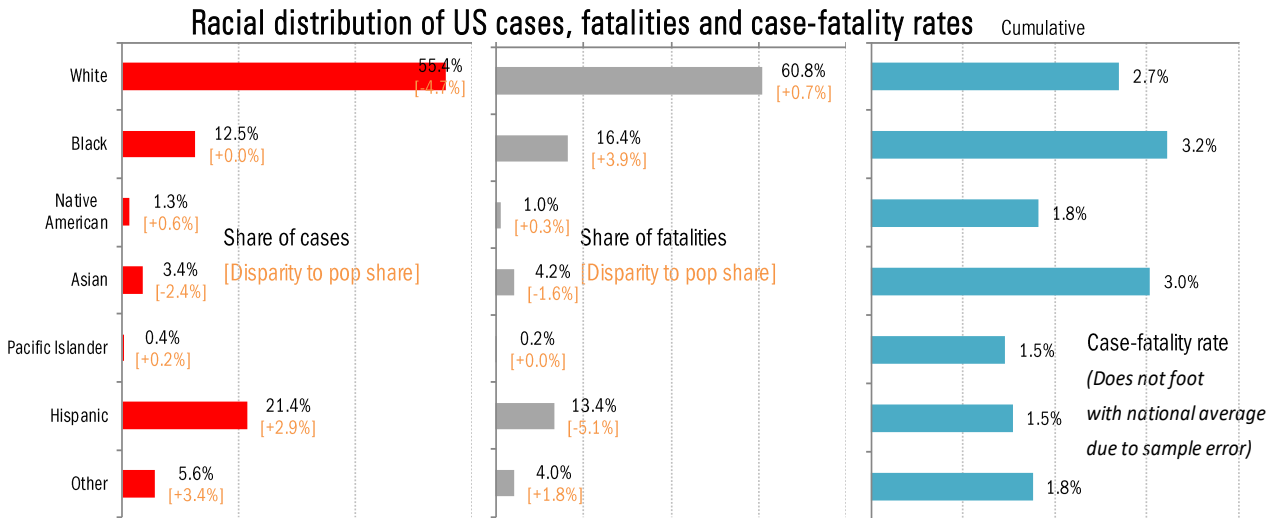
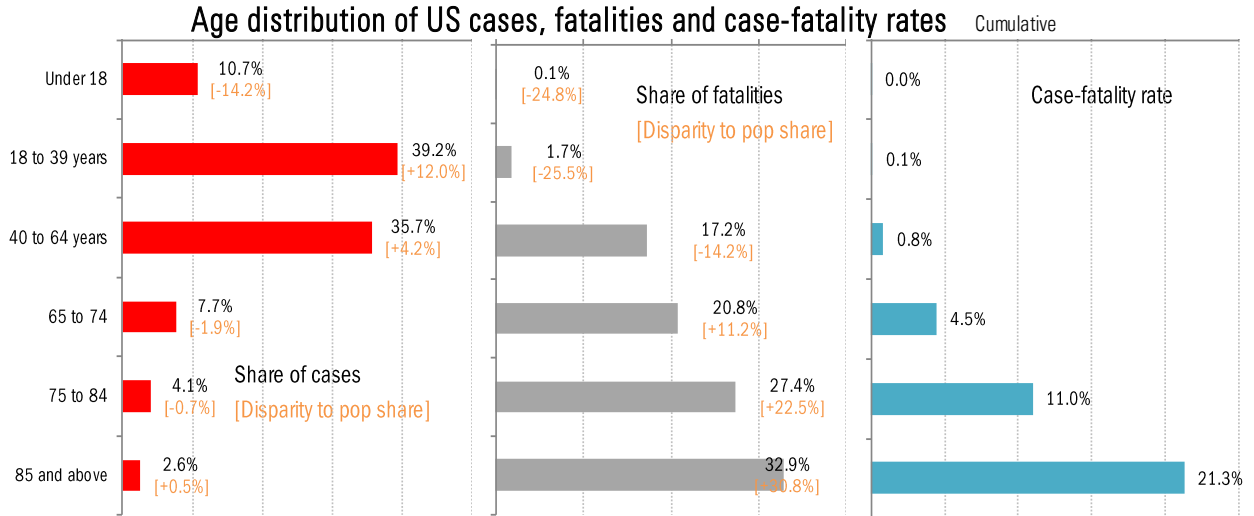
US deep-dive

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

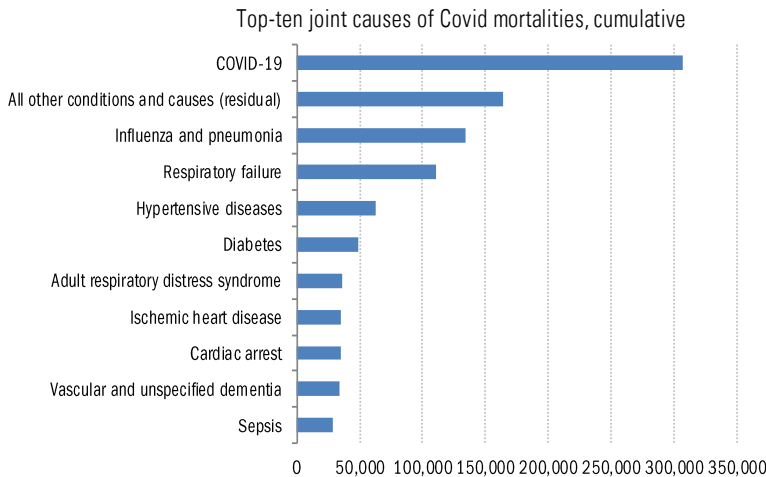


Source: [Covid Tracking Project](#), TrendMacro calculations

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



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

[I Hate the Mom That Covid Has Made Me](#)

Kristen Howerton
New York Times
December 28, 2020

[Cuomo says NYS will follow new CDC guidelines on COVID-19 vaccine distribution](#)

ABC News 10
January 12, 2021

[Pfizer Investigates Post-Vaccine Death for Possible Connection](#)

Riley Griffin
Bloomberg
January 12, 2021

[Johnson & Johnson's Covid-19 Vaccine Could Alter the Course of the Pandemic. Investors Will Soon Know if It Works.](#)

Josh Nathan-Kazis
Barron's
January 12, 2021

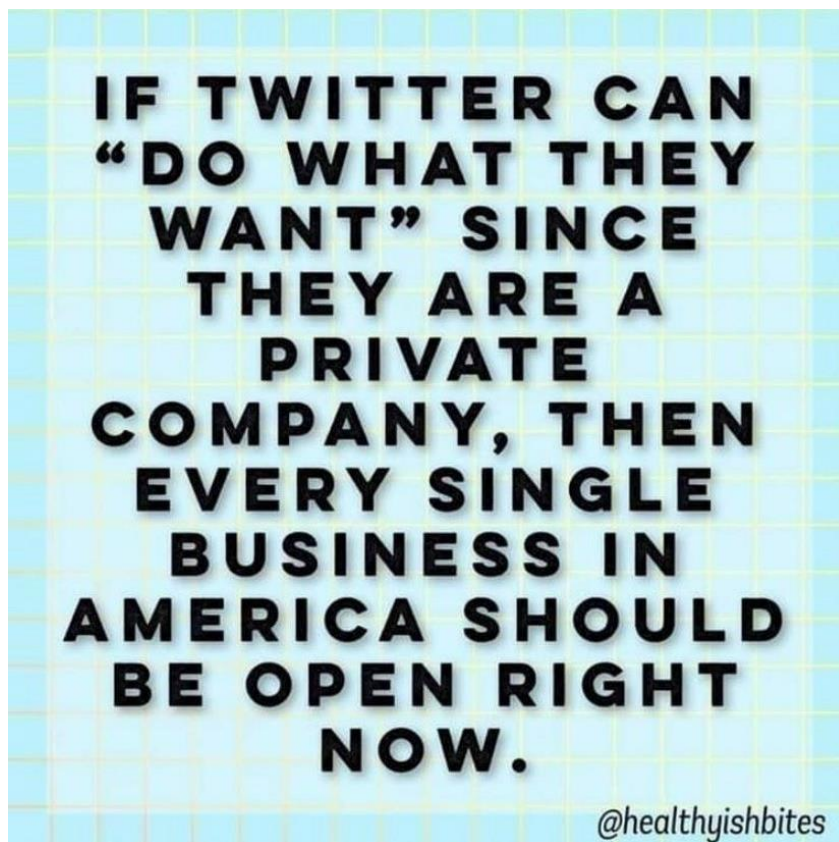
[FLASHBACK: Fans Were Told Players Would Die If College Football Was Played](#)

David Hookstead
Daily Caller
January 12, 2021

[Twelve Forgotten Principles of Public Health](#)

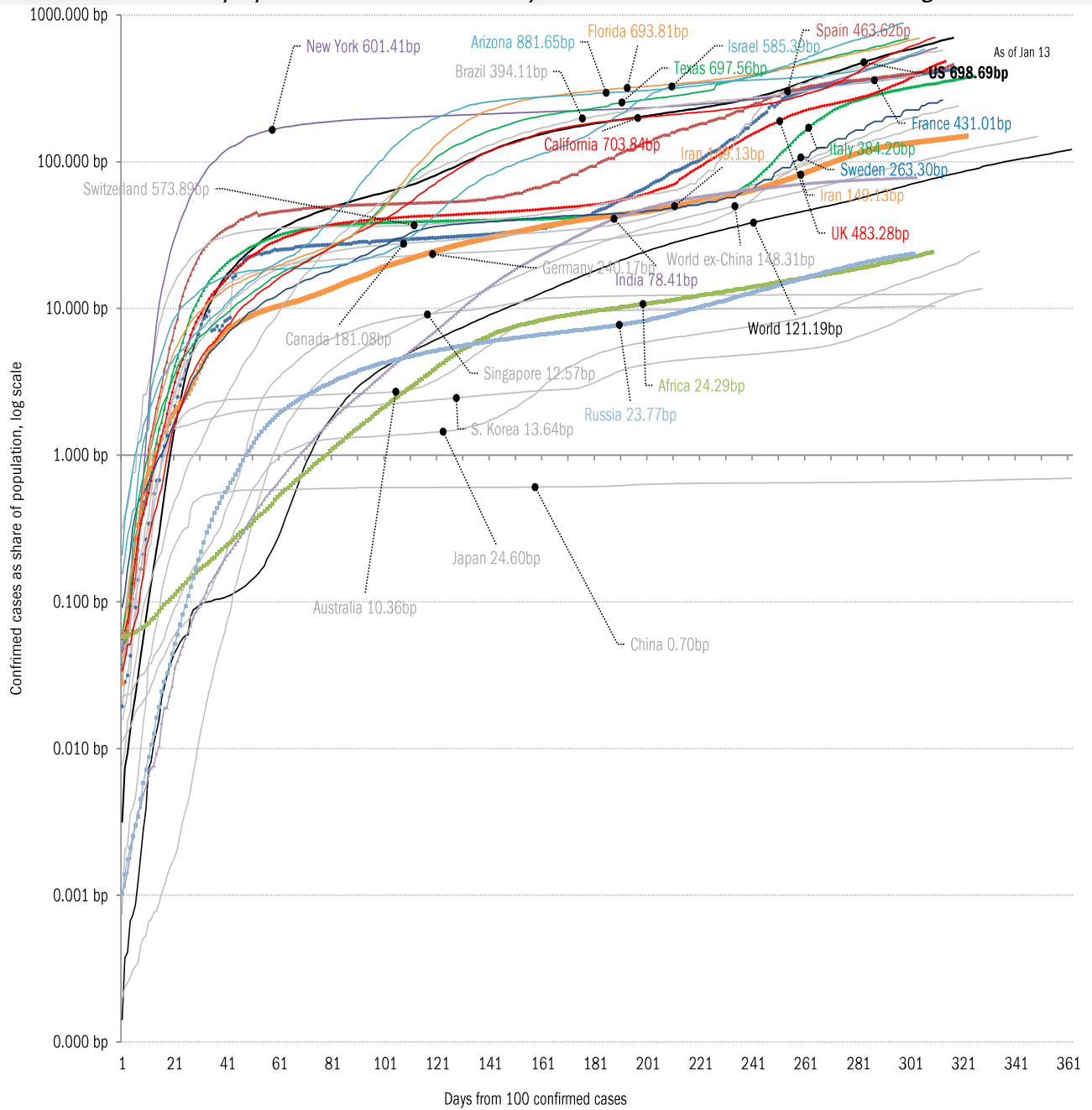
Martin Kulldorff
American Institute for Economic Research
December 21, 2020

Meme of day



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

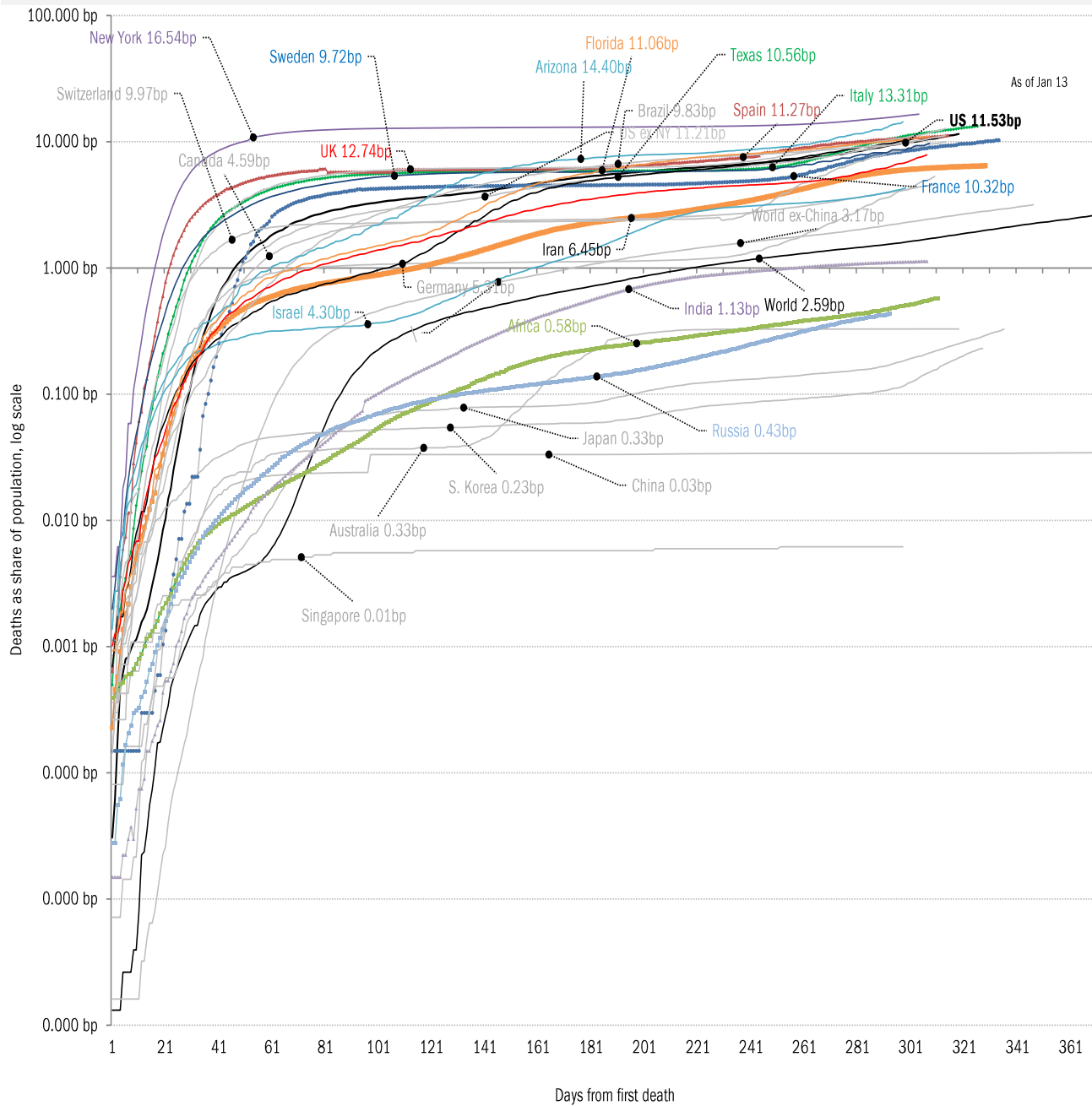
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

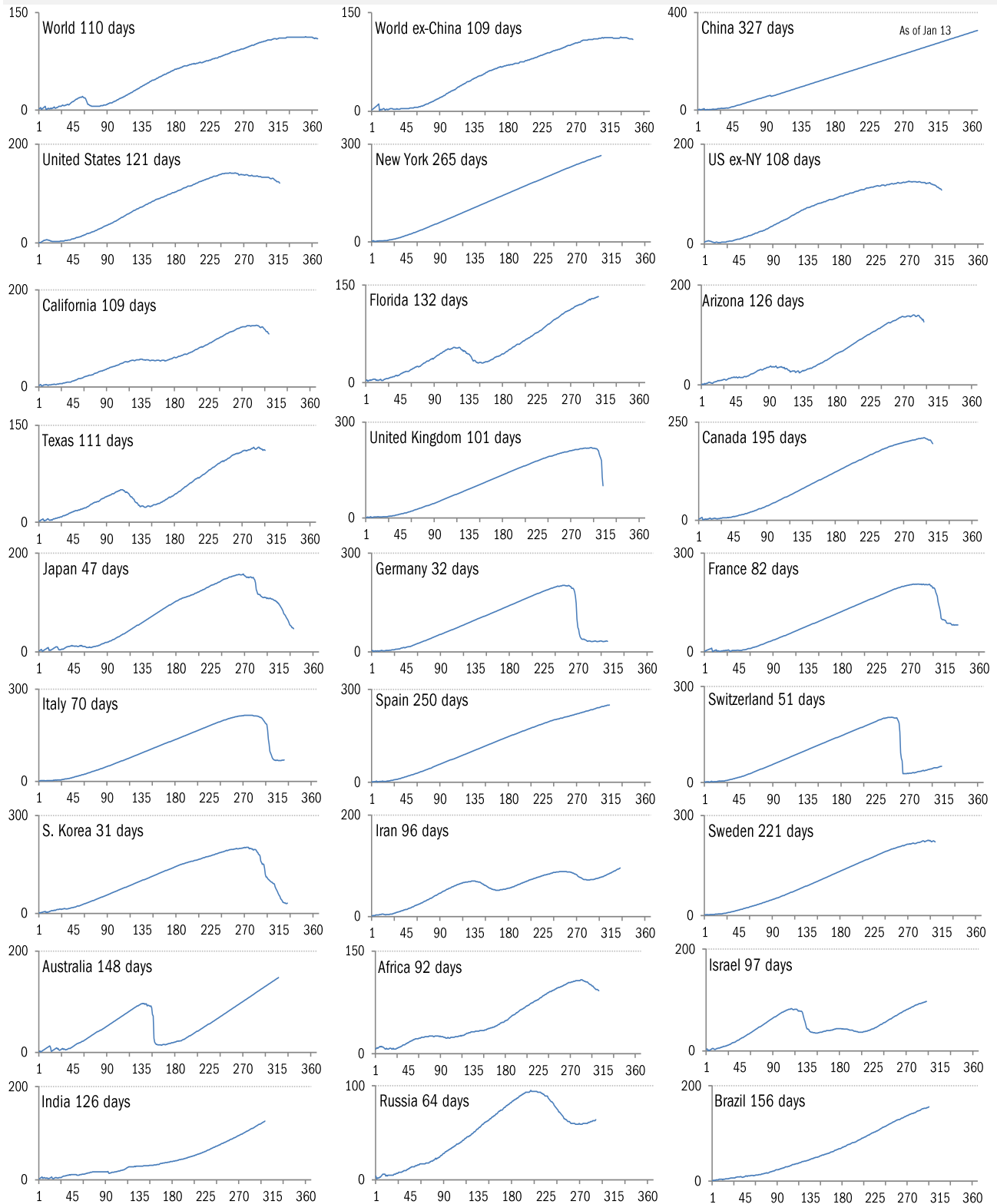


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

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

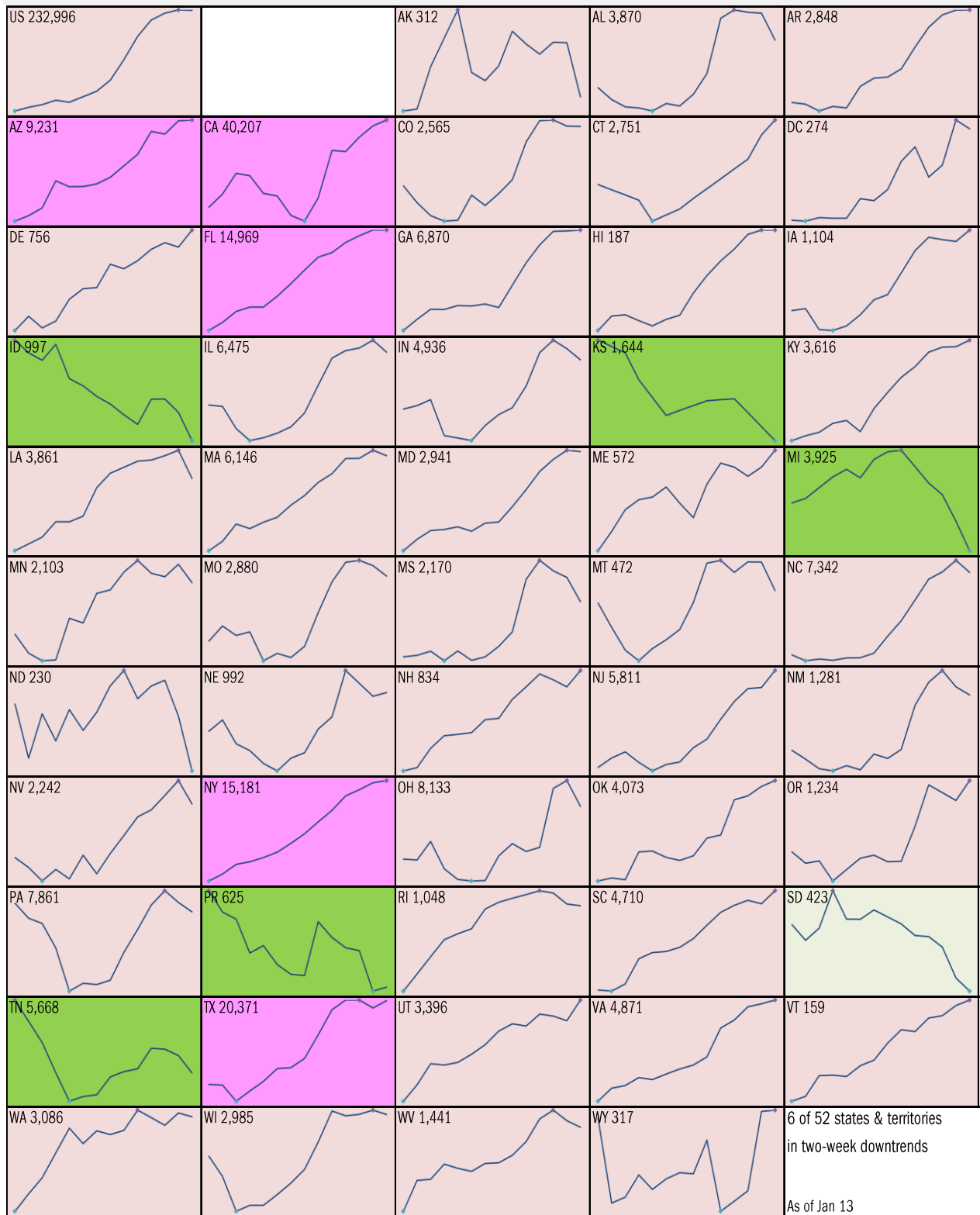
Vertical: days to double deaths Horizontal: days from first death

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

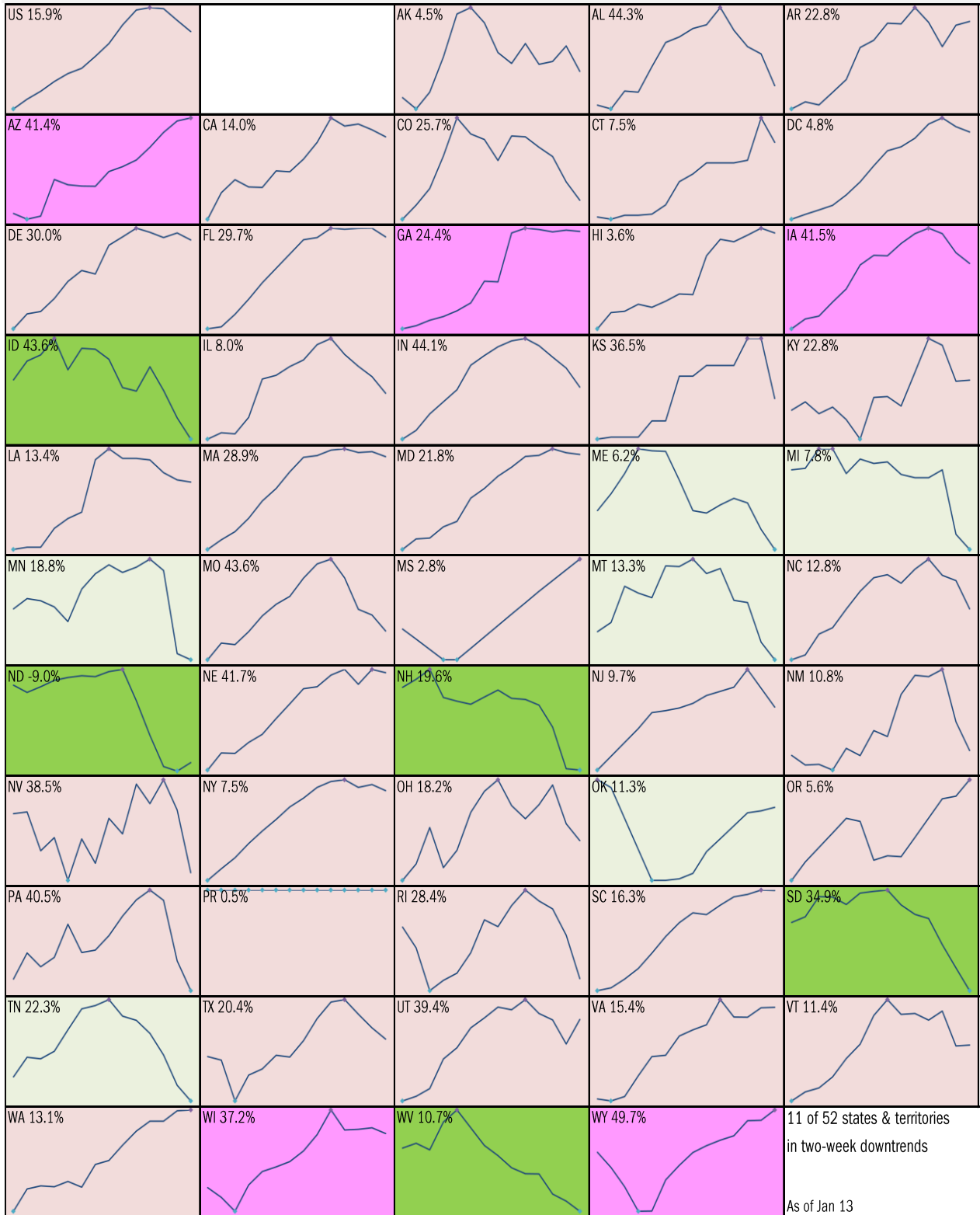


Source: [Covid Tracking Project](#), TrendMacro calculations

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



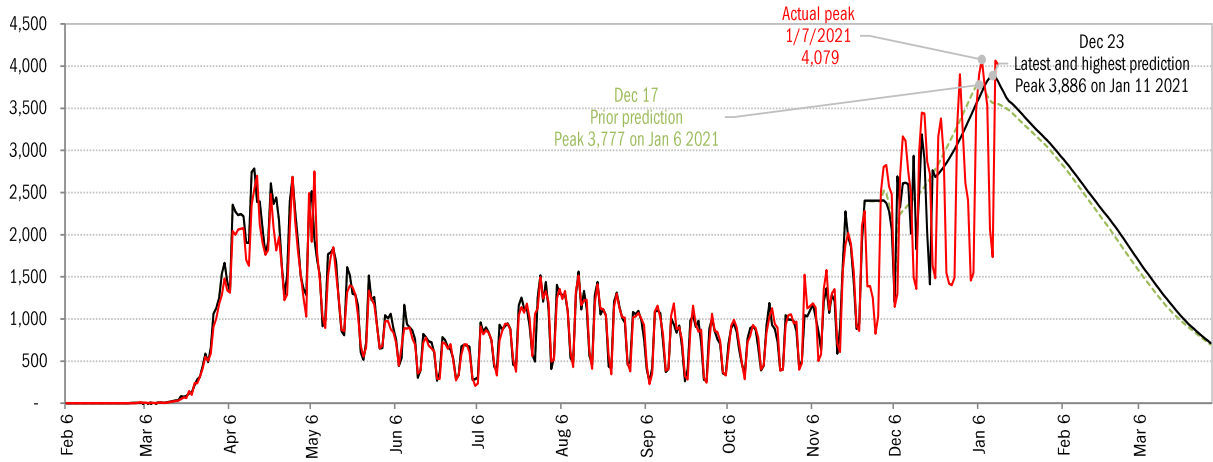
Source: [Covid Tracking Project](#), TrendMacro calculations

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

New daily fatalities

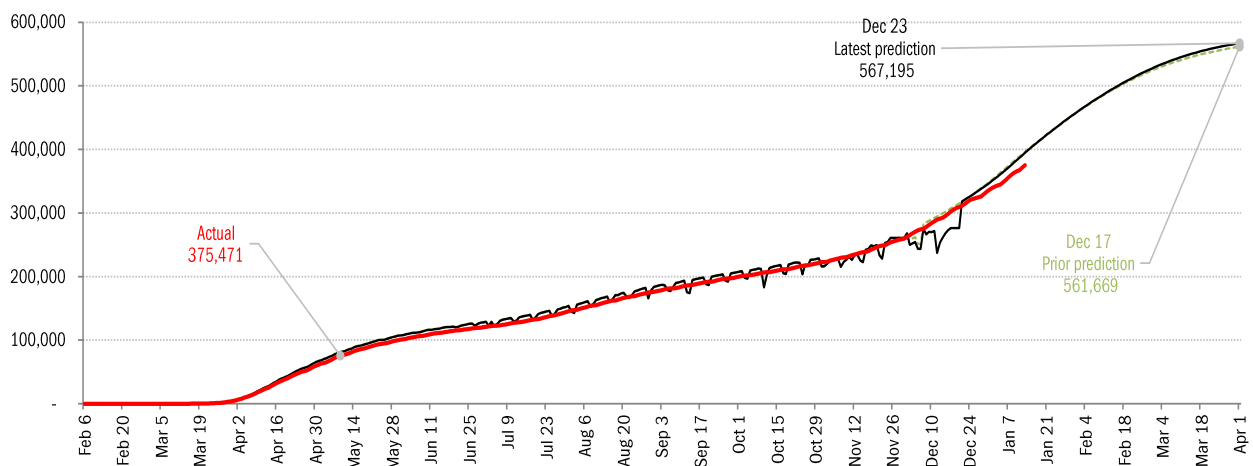
As of Jan 13

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

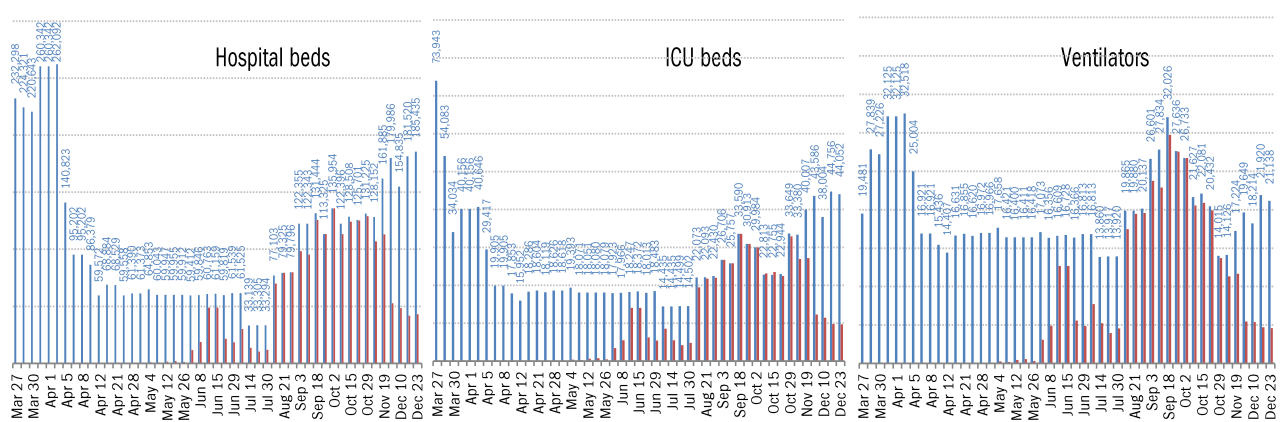


Cumulative fatalities

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

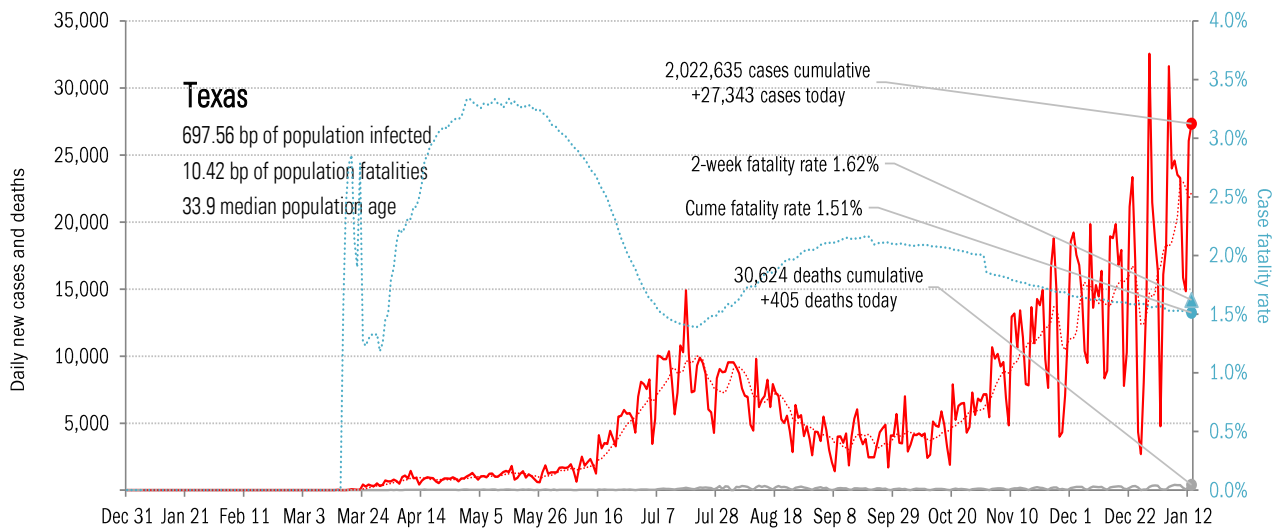
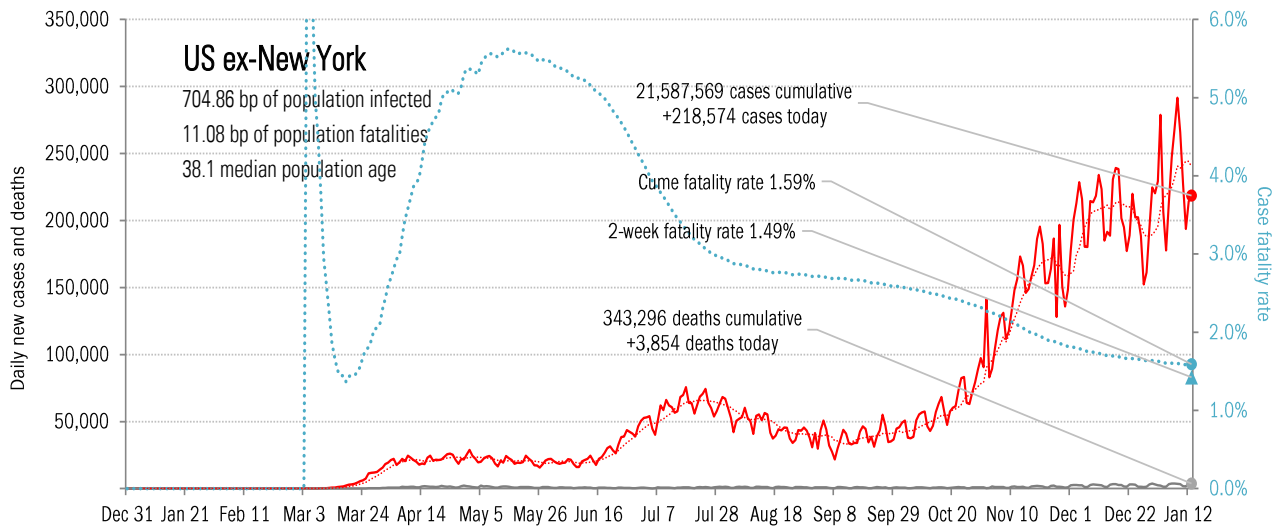
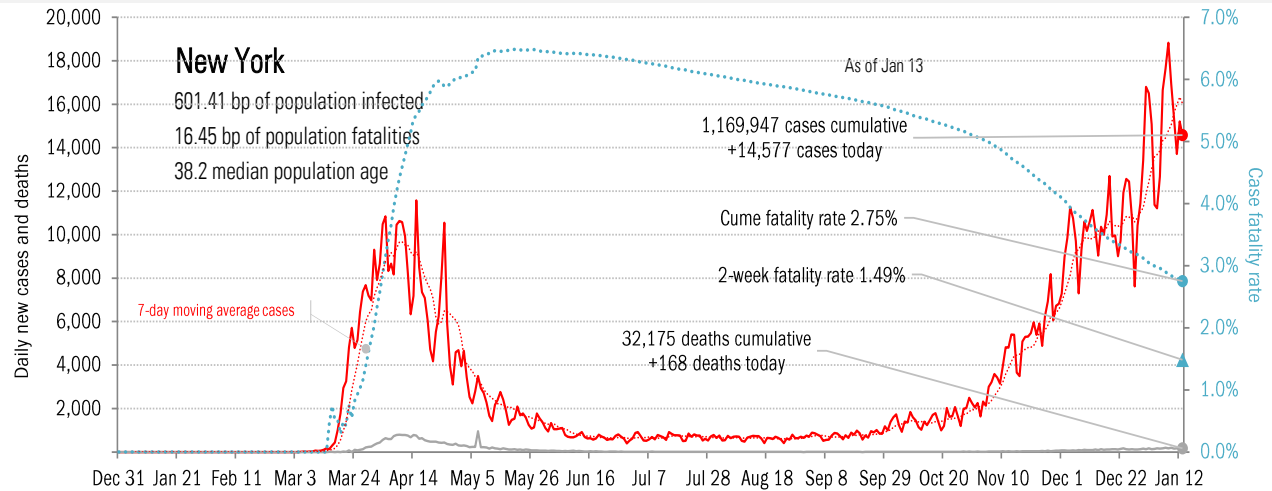


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



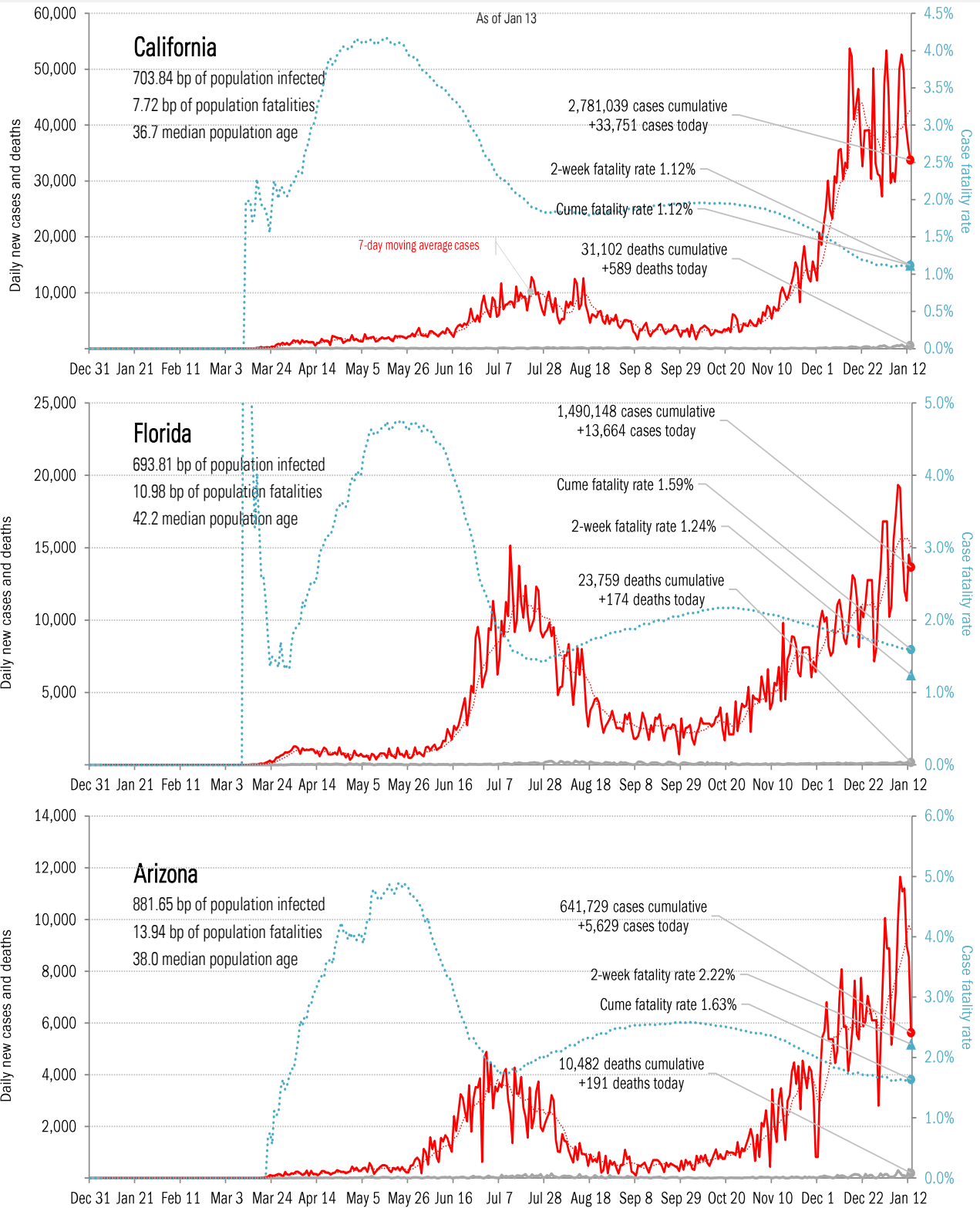
Source: [IHME Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



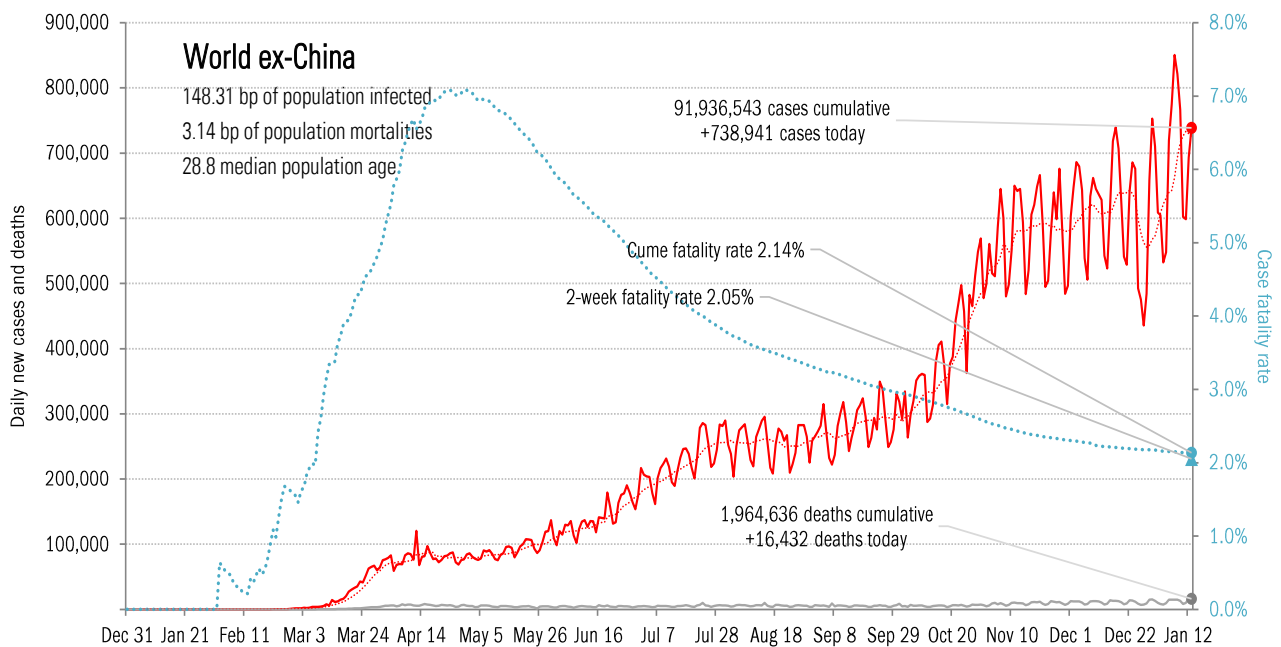
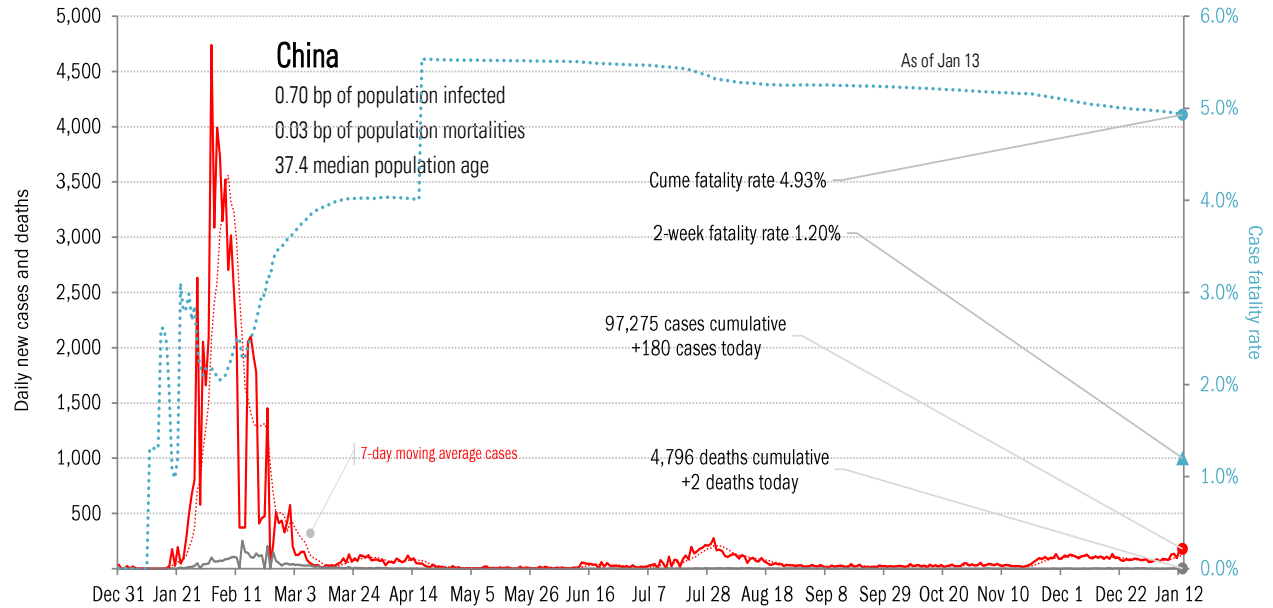
Source: [Covid Tracking Project](#), TrendMacro calculations

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



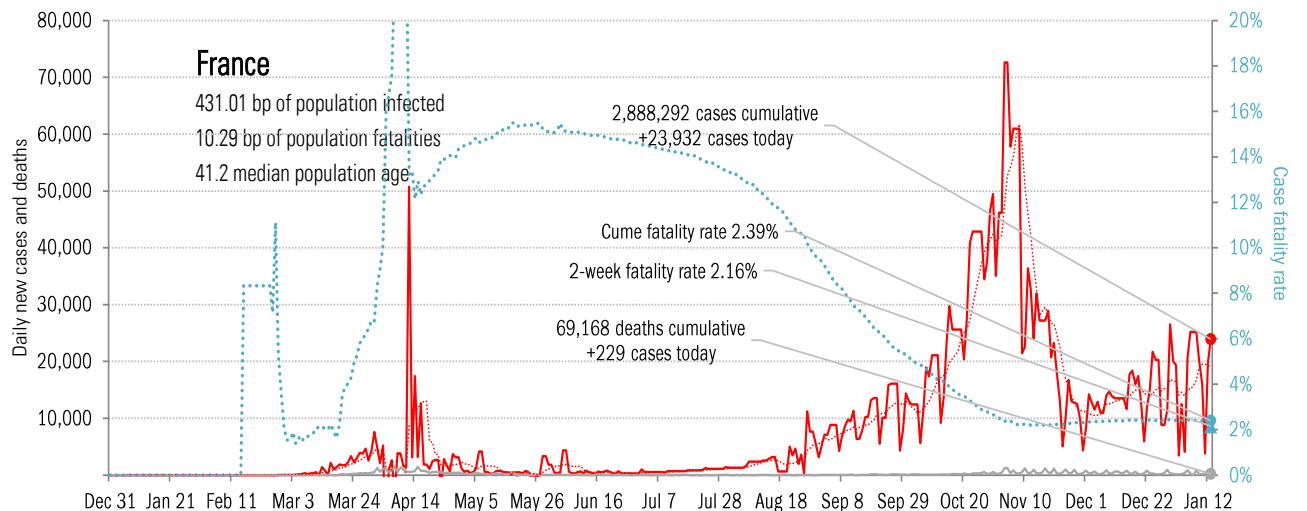
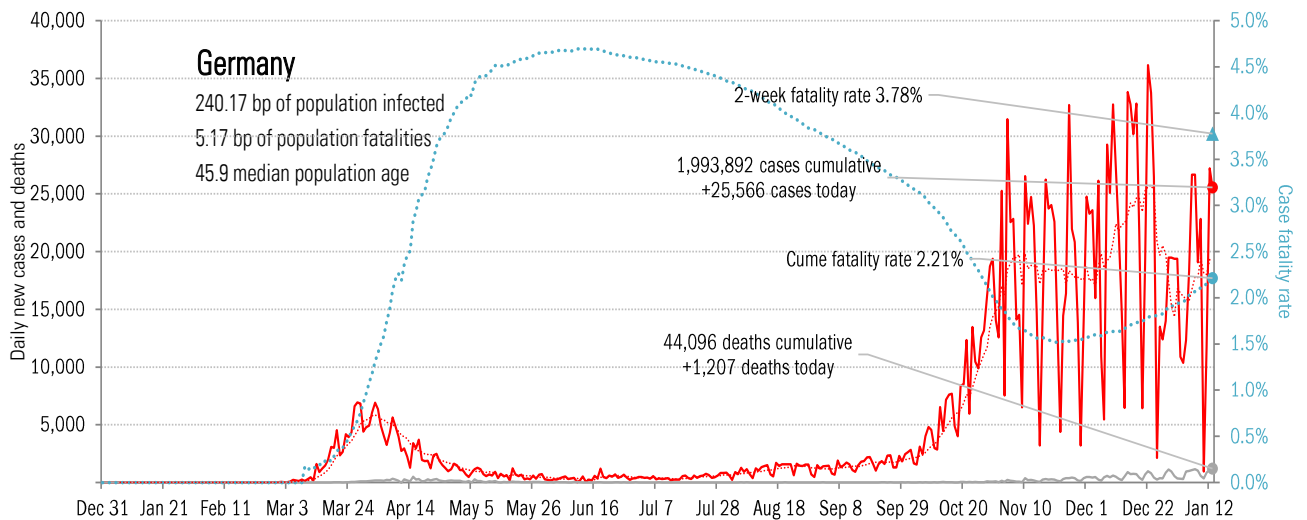
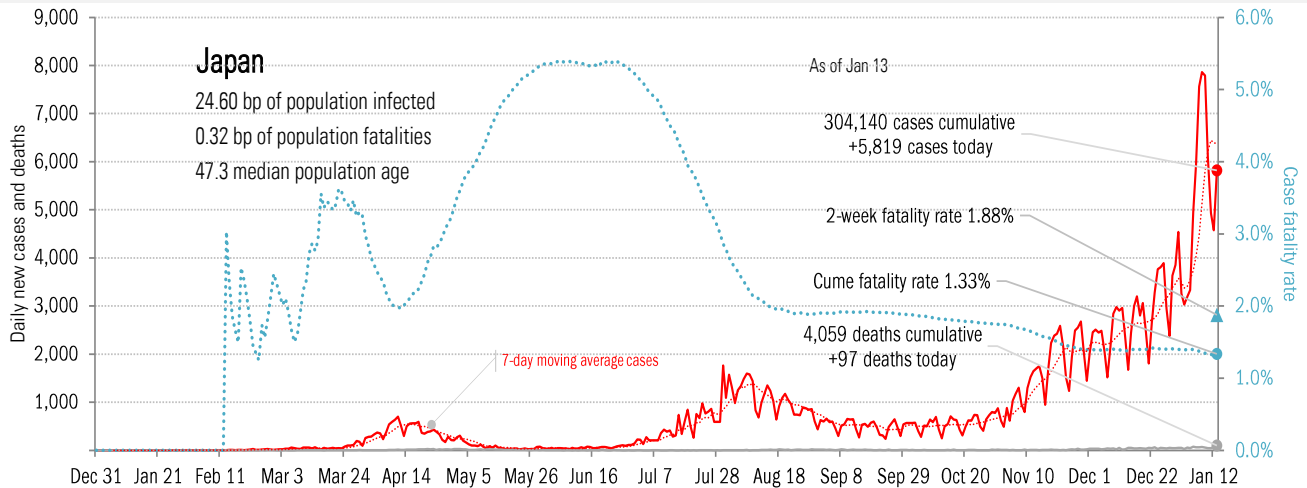
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



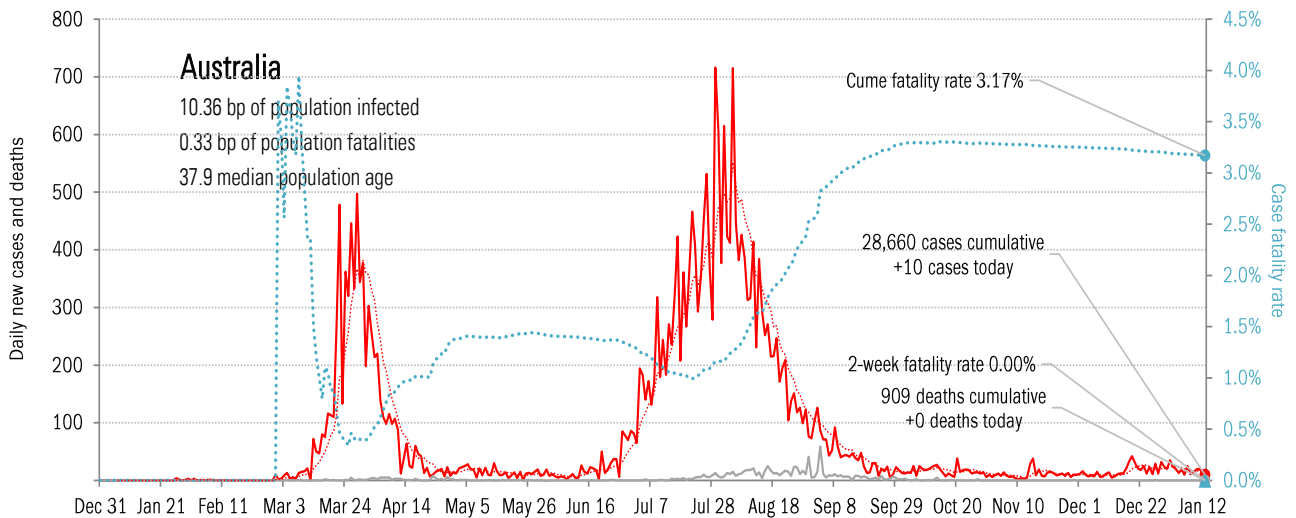
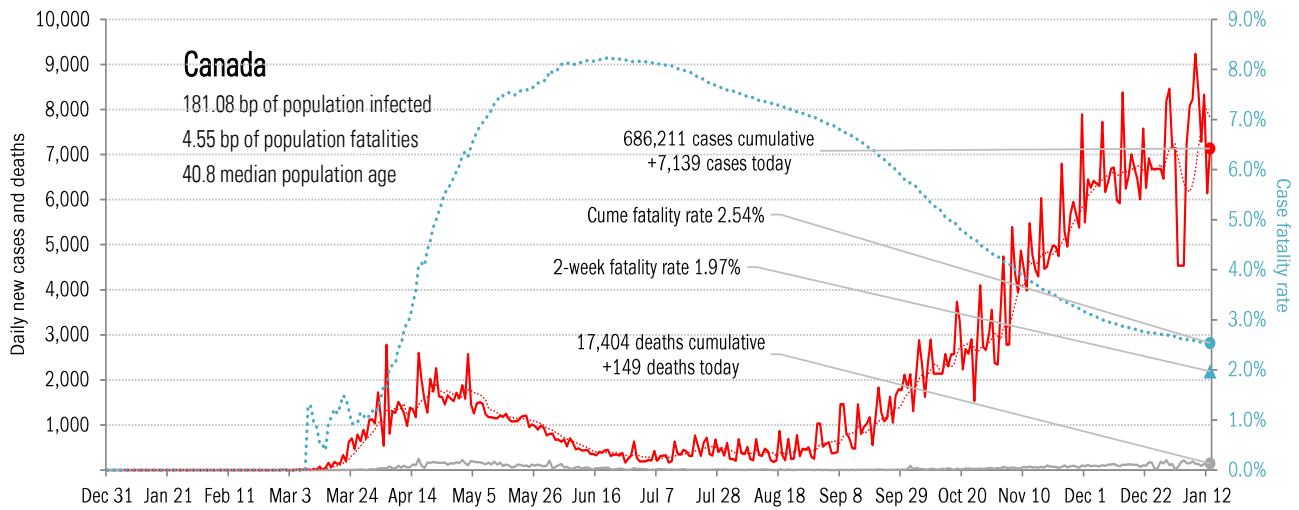
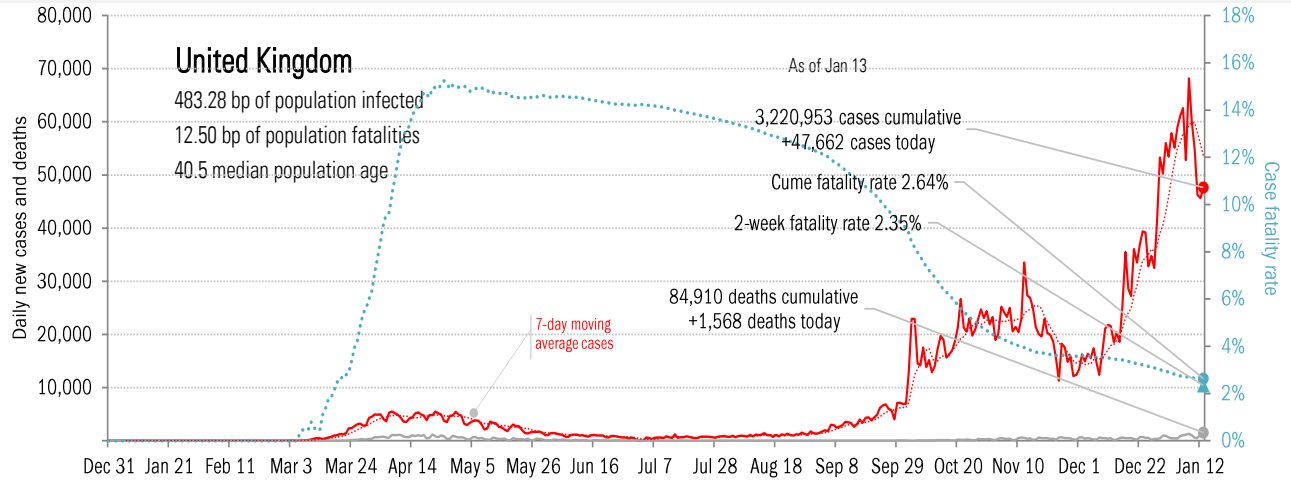
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



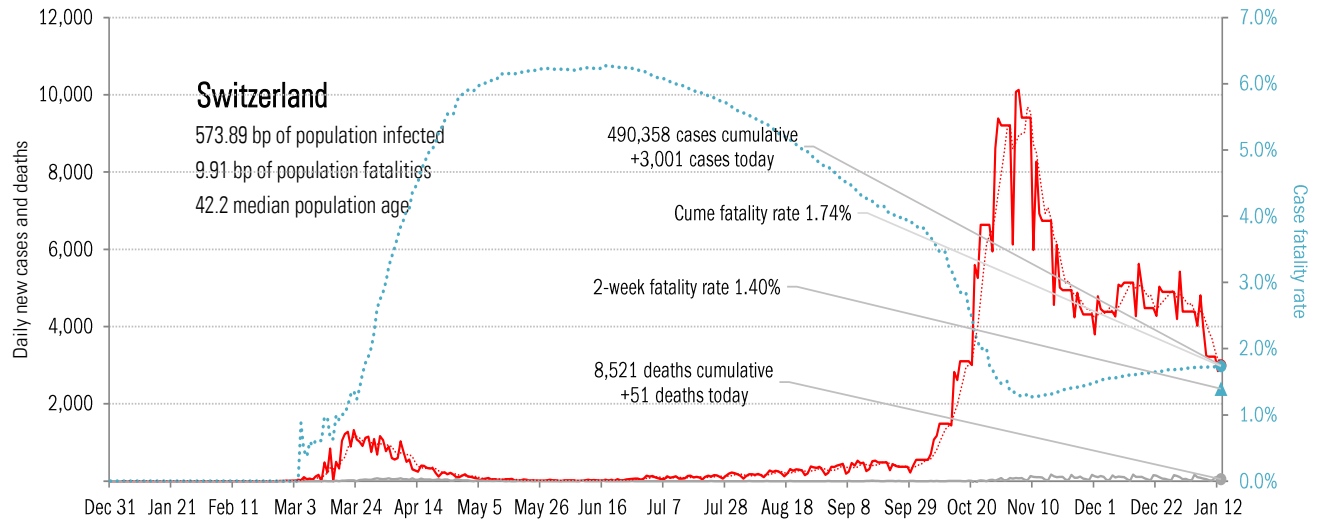
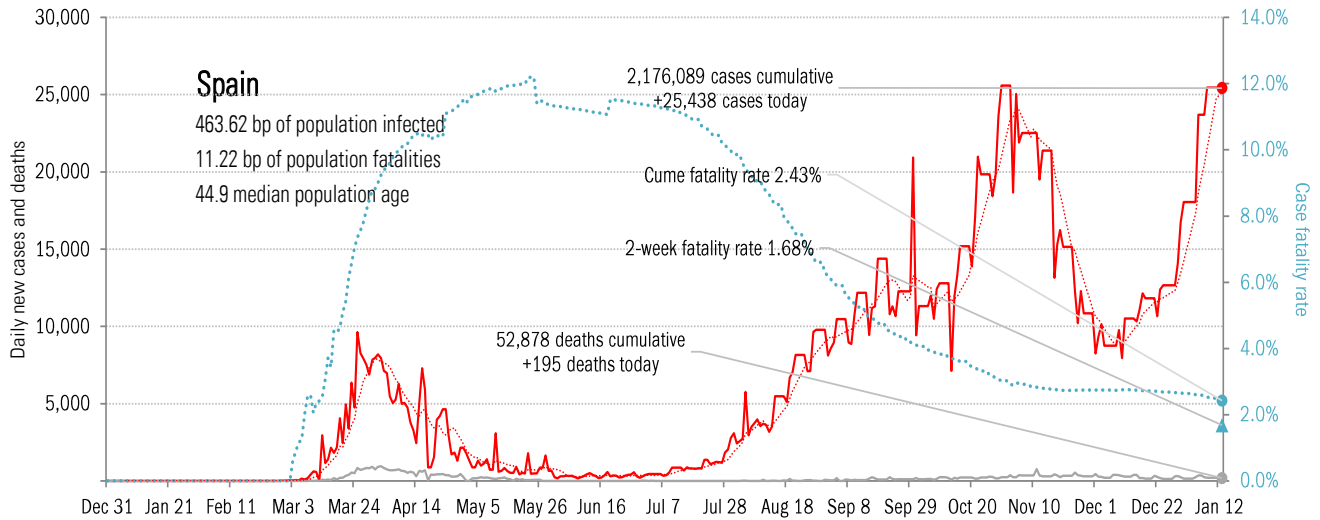
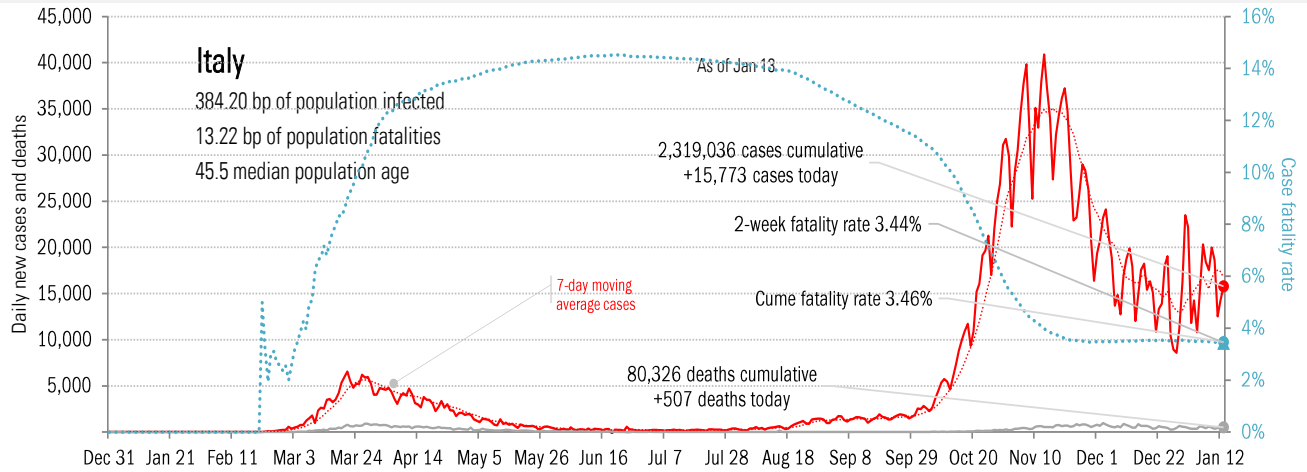
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



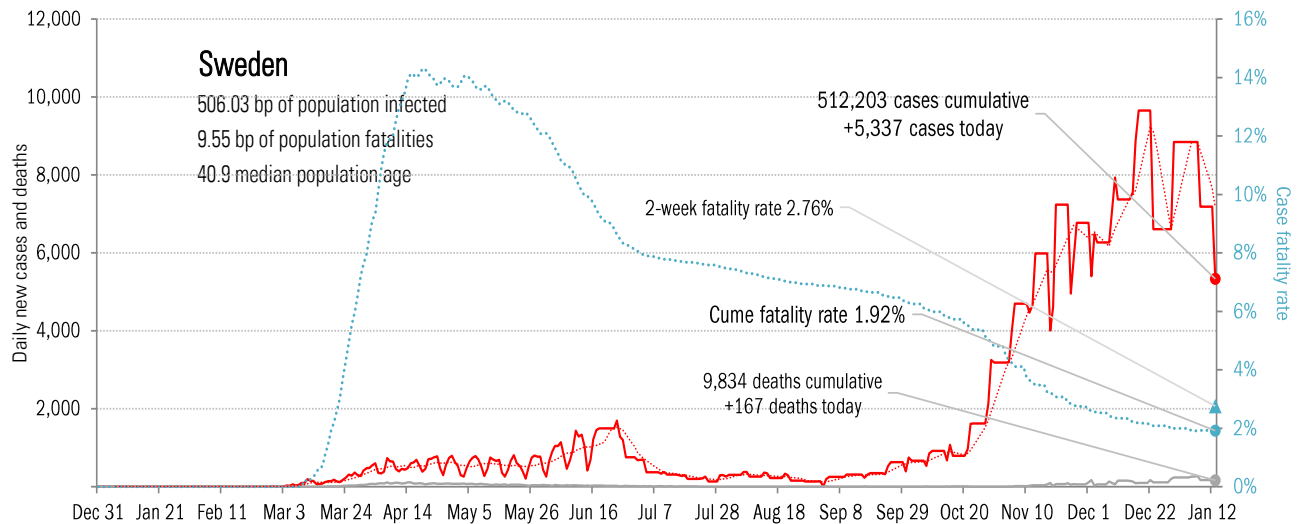
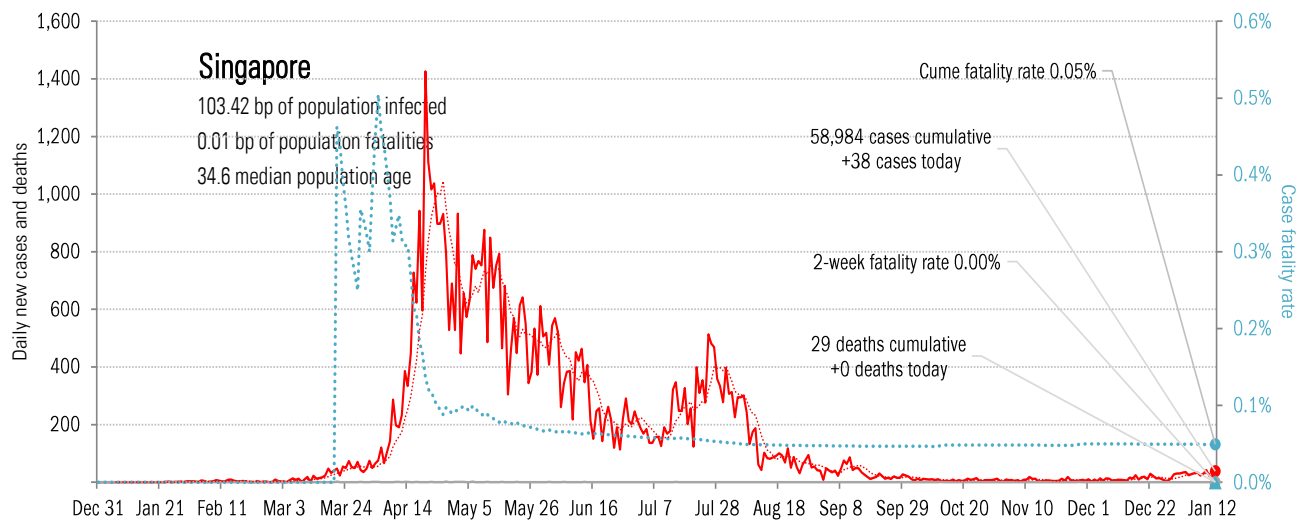
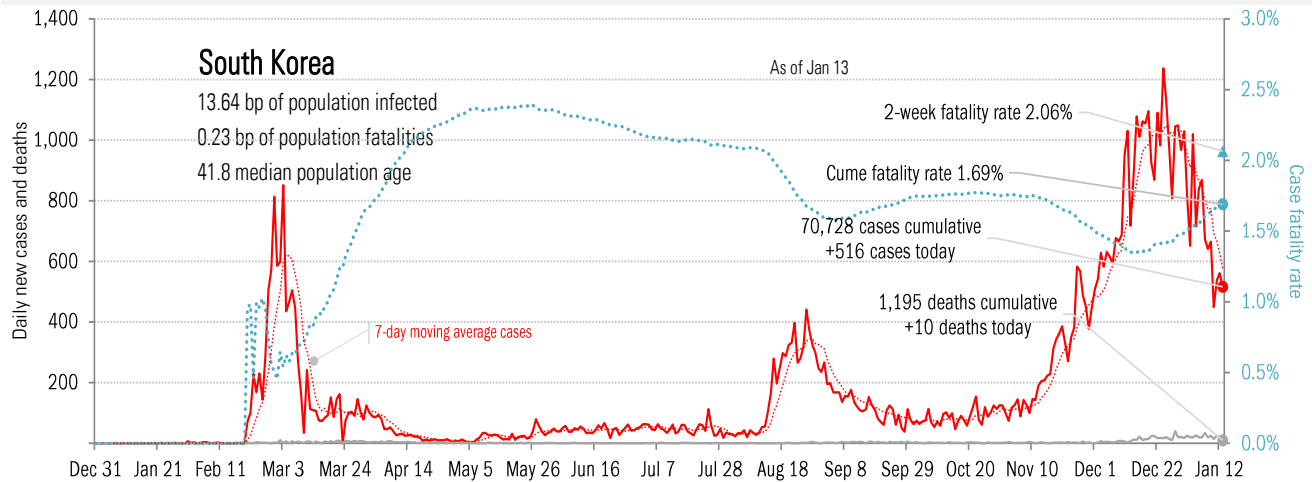
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



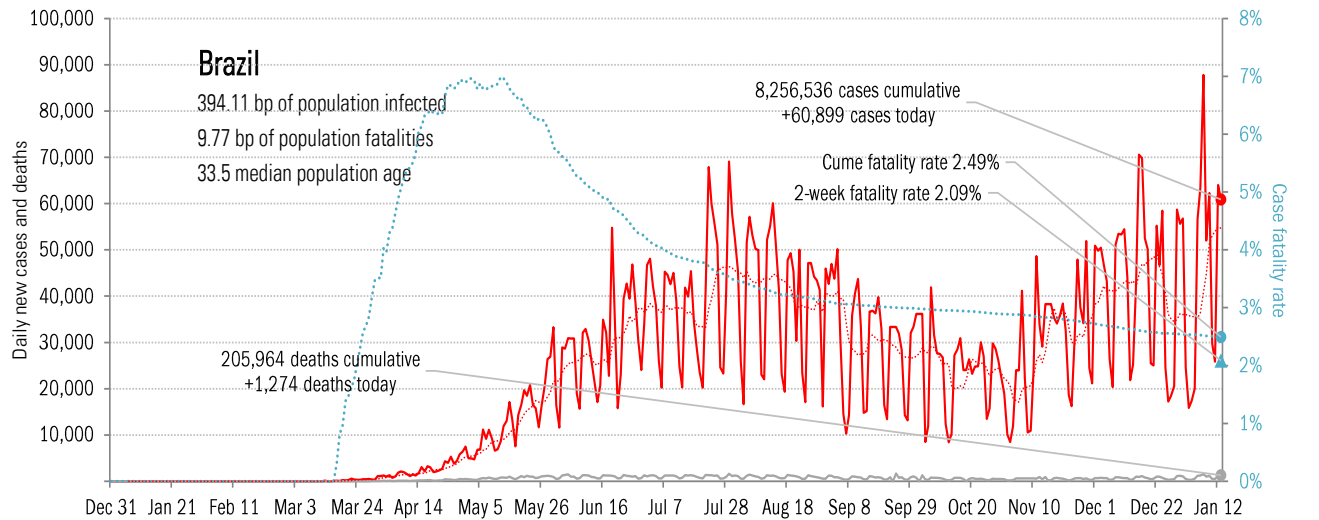
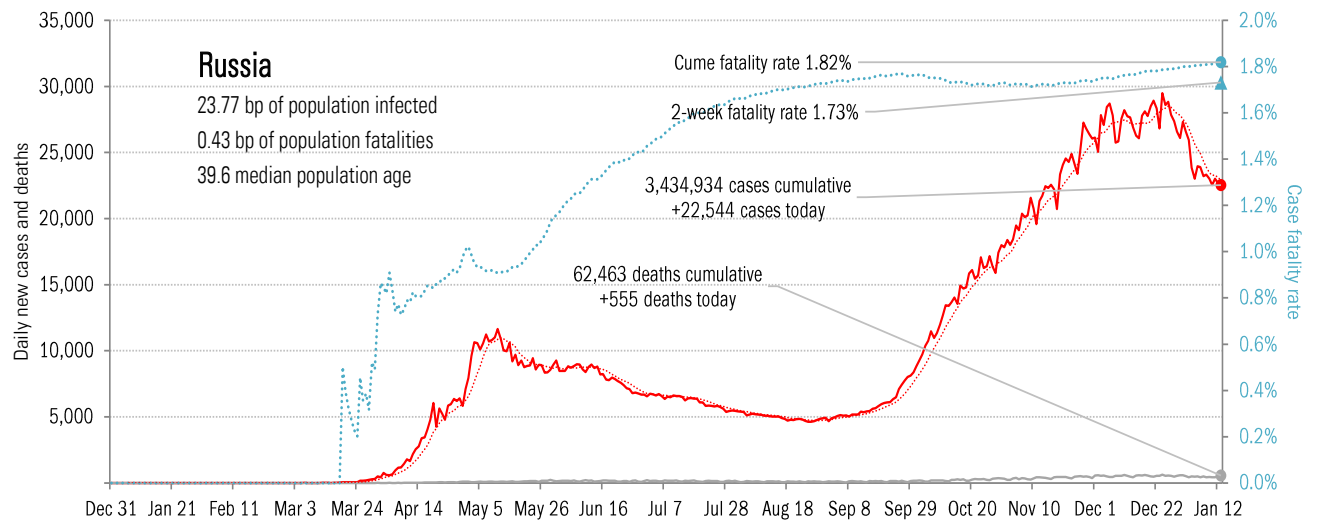
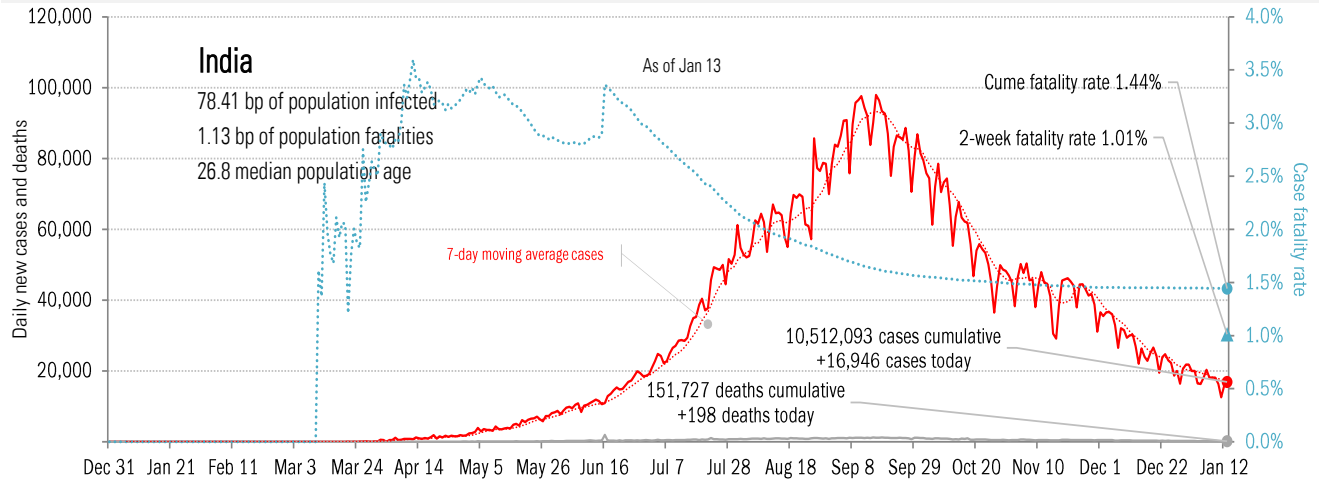
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



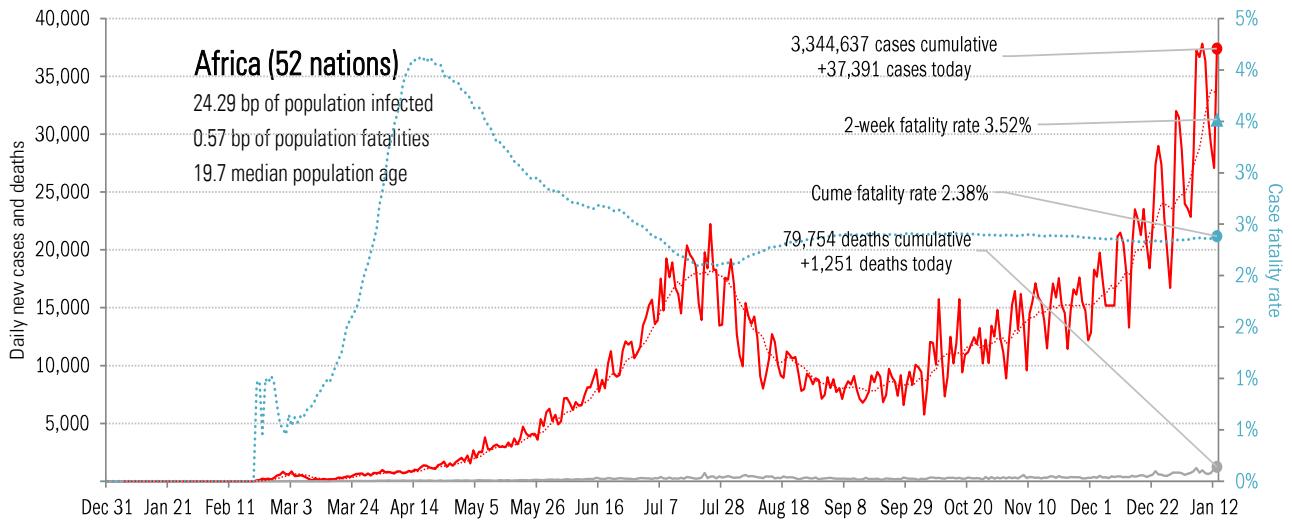
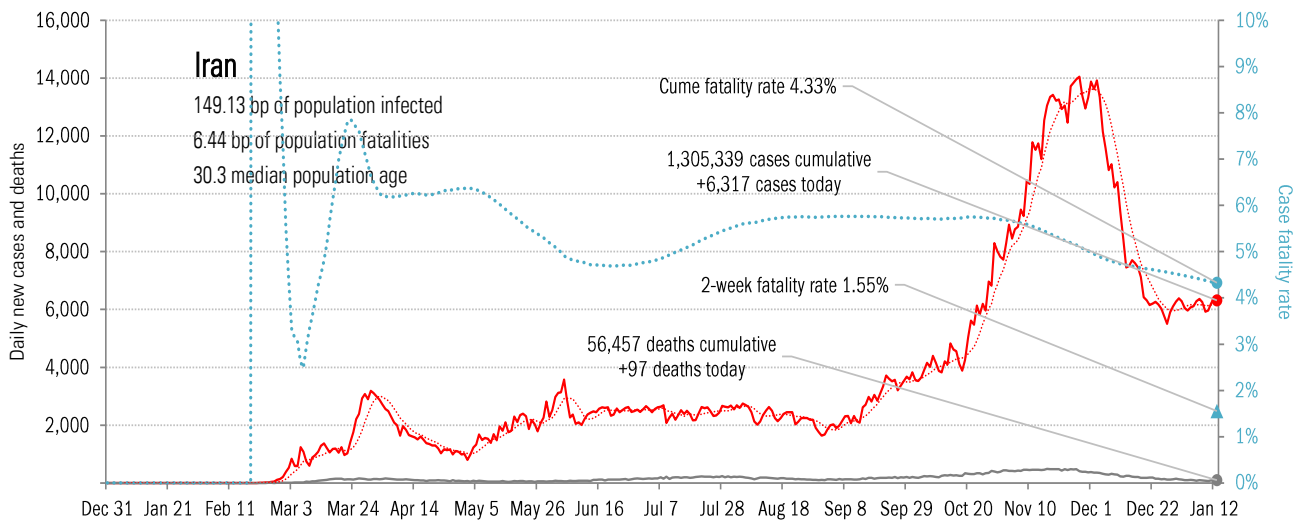
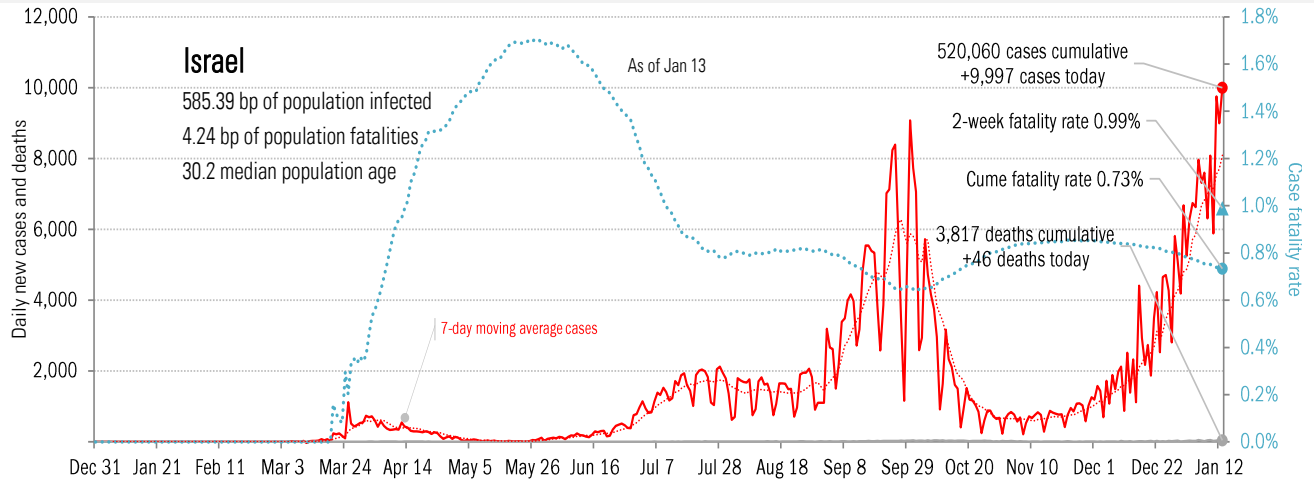
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



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

Impact in the Middle East and Africa



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