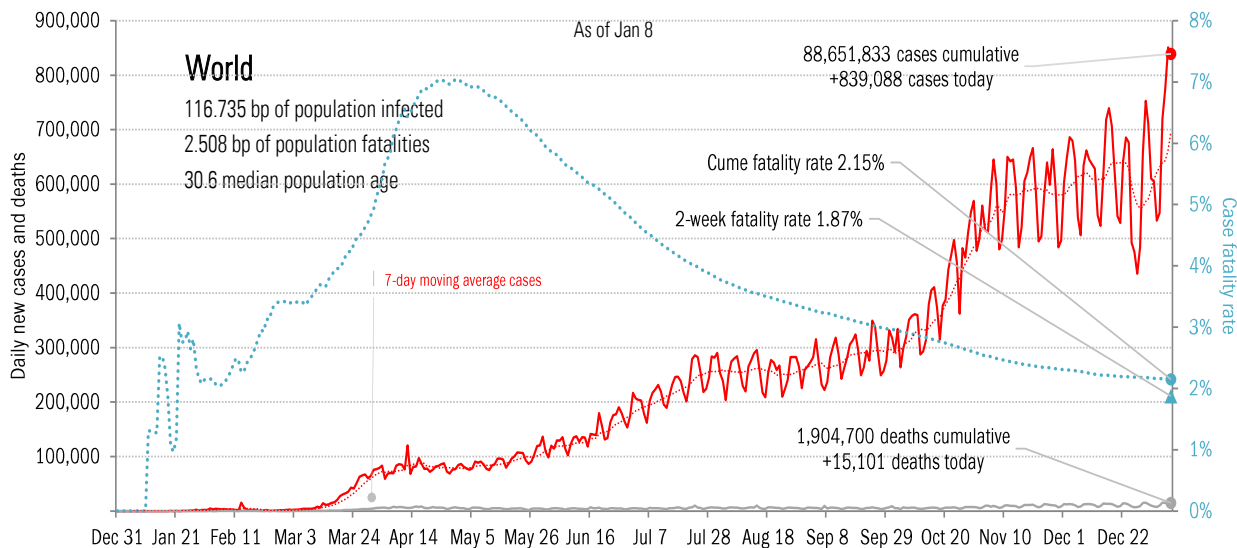
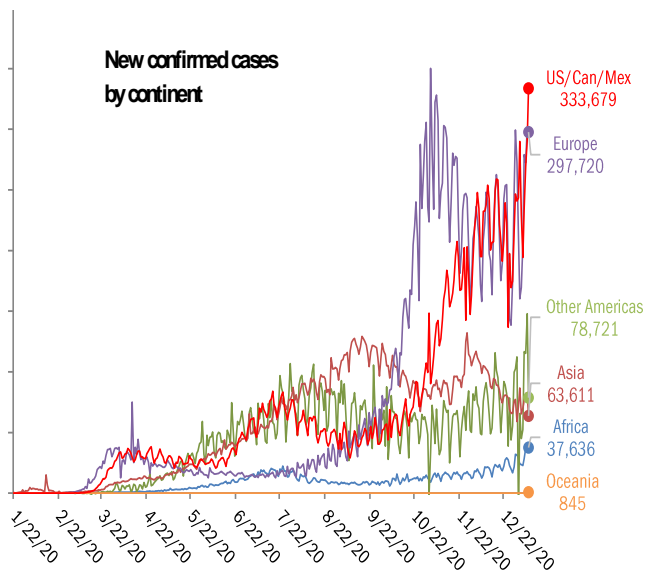


Data Insights: Covid-2019 Monitor

Saturday, January 9, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+310,080	United States	+3,777
United Kingdom	+68,192	United Kingdom	+1,333
Brazil	+52,035	Mexico	+1,038
France	+41,373	Germany	+1,035
Spain	+25,456	Brazil	+962
Russia	+23,330	France	+866
South Africa	+21,980	Italy	+620
Germany	+19,077	South Africa	+616
Colombia	+18,221	Russia	+439
Italy	+17,529	Colombia	+364
+597,273		+11,050	
World	+839,088	World	+15,101
Top ten	71%	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

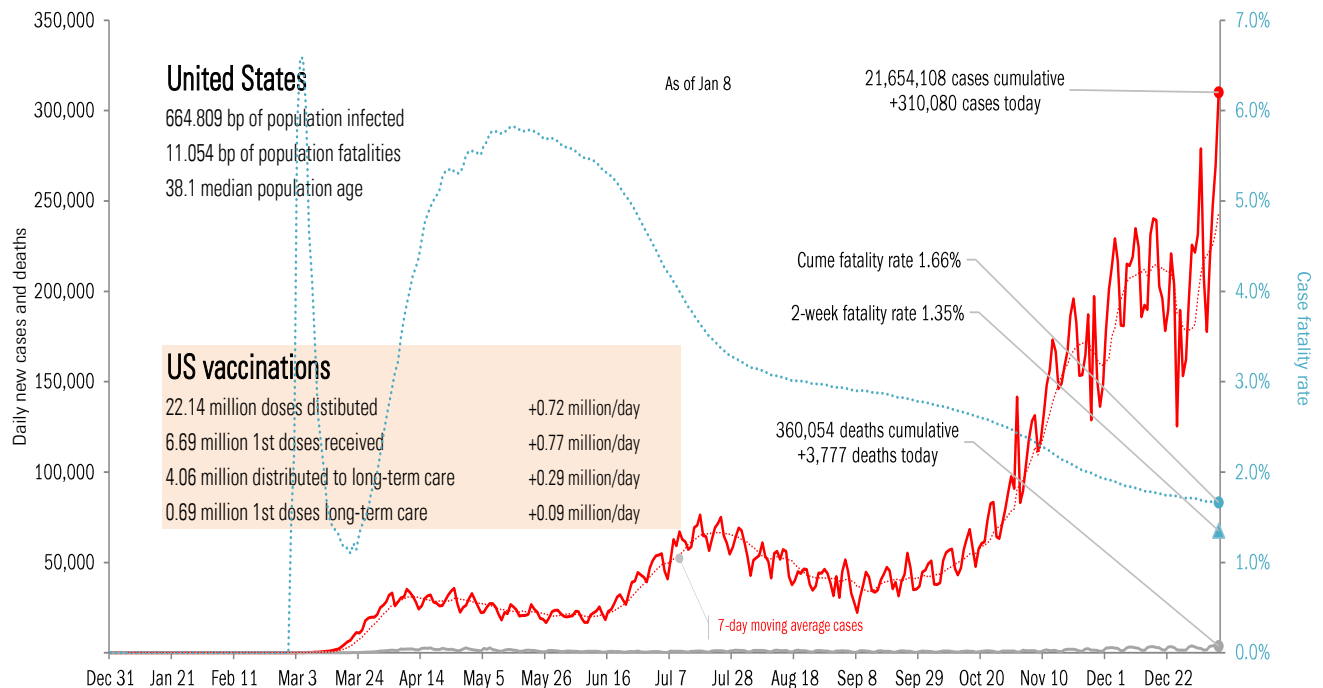
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
CA	+50,030		CA	+493		GA	+148		CA	2,568,641		NY	31,329		NY	89,995		RI	90%	AL	96%
NJ	+23,925		TX	+372		TX	+137		TX	1,915,261		TX	29,310		FL	65,986		GA	89%	GA	94%
TX	+23,520		PA	+215		FL	+80		FL	1,423,510		CA	28,538		NJ	49,737		SC	88%	RI	91%
FL	+19,136		AZ	+197		MO	+57		NY	1,094,144		FL	23,011		GA	44,187		MD	86%	OK	91%
NY	+18,832		FL	+194		MD	+51		IL	1,017,322		NJ	19,756		AZ	42,718		DC	84%	CA	89%
AZ	+11,658		IL	+167		WA	+38		OH	762,603		IL	19,108		CH	40,787		FL	83%	NM	89%
GA	+10,379		NY	+165		LA	+36		PA	703,265		PA	17,394		IN	36,766		CA	81%	TN	89%
PA	+10,178		TN	+126		AL	+31		TN	640,606		MI	13,913		AL	36,754		PA	81%	TX	88%
NC	+10,028		KS	+121		KS	+31		GA	620,247		MA	12,985		MD	28,068		AZ	81%	MS	87%
CH	+9,535		NC	+115		CT	+22		NC	602,774		GA	11,314		MN	22,617		MA	81%	SC	87%
+187,221			+2,165			+631			11,348,373			206,658			457,615						
All states	+310,080			+3,777			-481		All states	21,654,108			360,054			720,767		All states	76%		80%
Top ten	60%			57%			-131%		Top ten	52%			57%			63%		Median	73%		78%

Some states not reporting

Five most improved US states

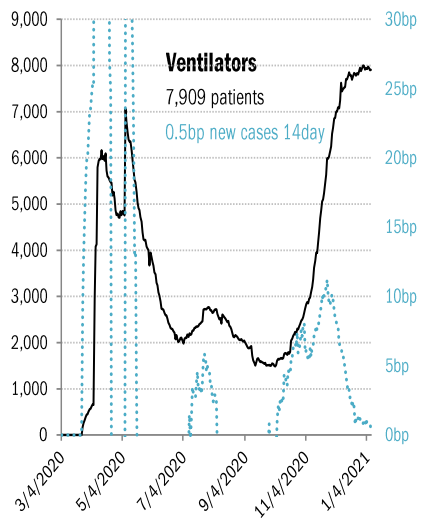
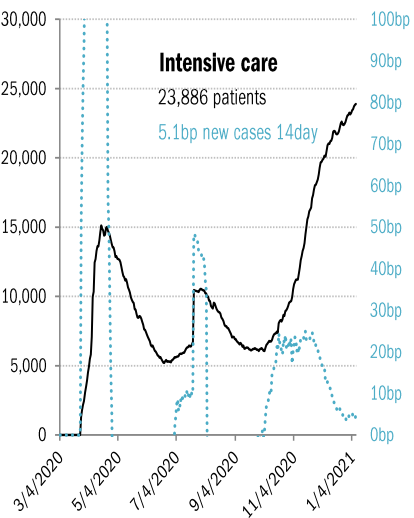
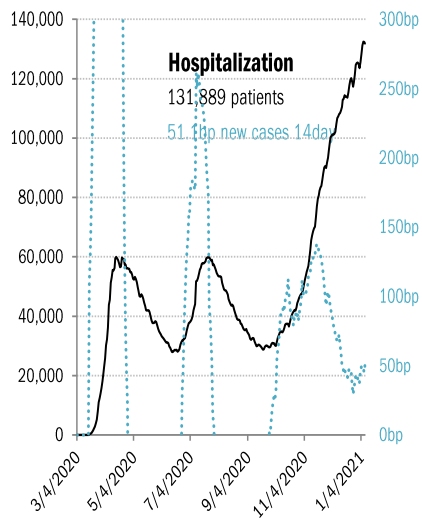
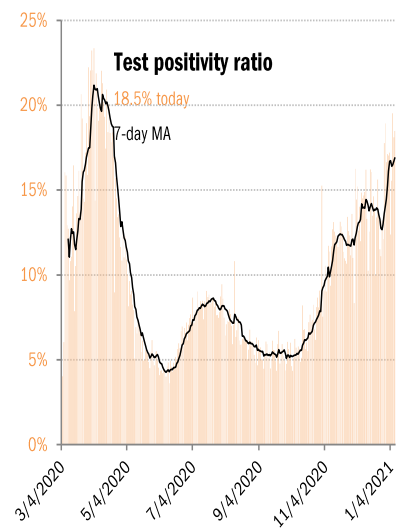
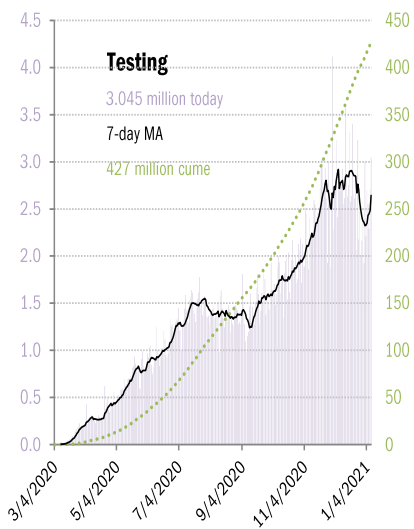
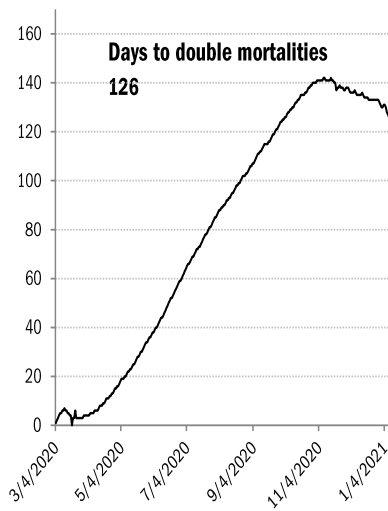
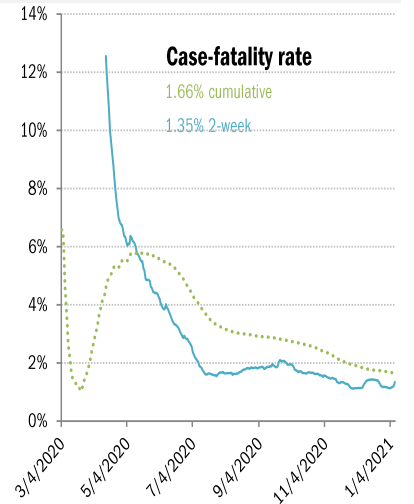
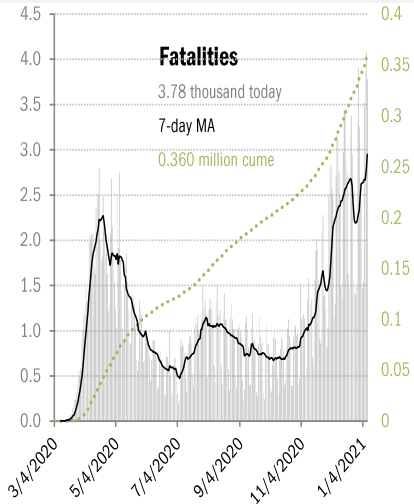
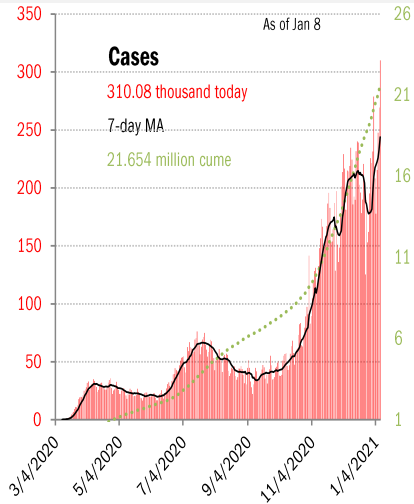
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TN	-2,631	MI	-166	IL	-137	TX	+14,585
IN	-1,175	AZ	-100	ID	-112	PA	+14,361
LA	-1,153	CA	-90	VA	-84	CH	+7,767
MS	-1,080	PA	-50	WI	-75	SC	+4,875
TX	-1,058	SC	-45	IN	-73	TN	+3,991



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

US deep-dive

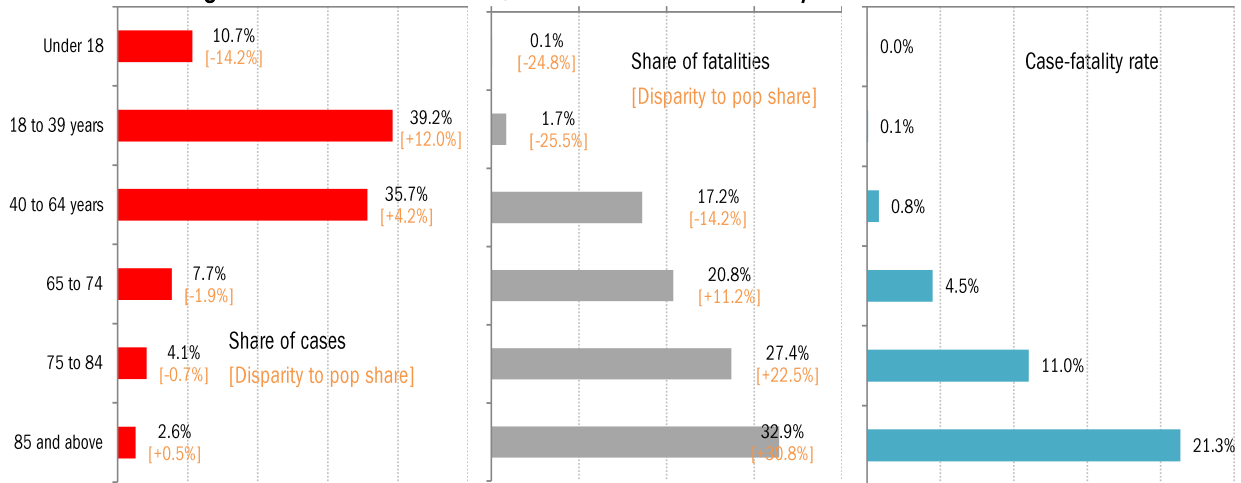
National and state-by-state data do not line up because of different sources



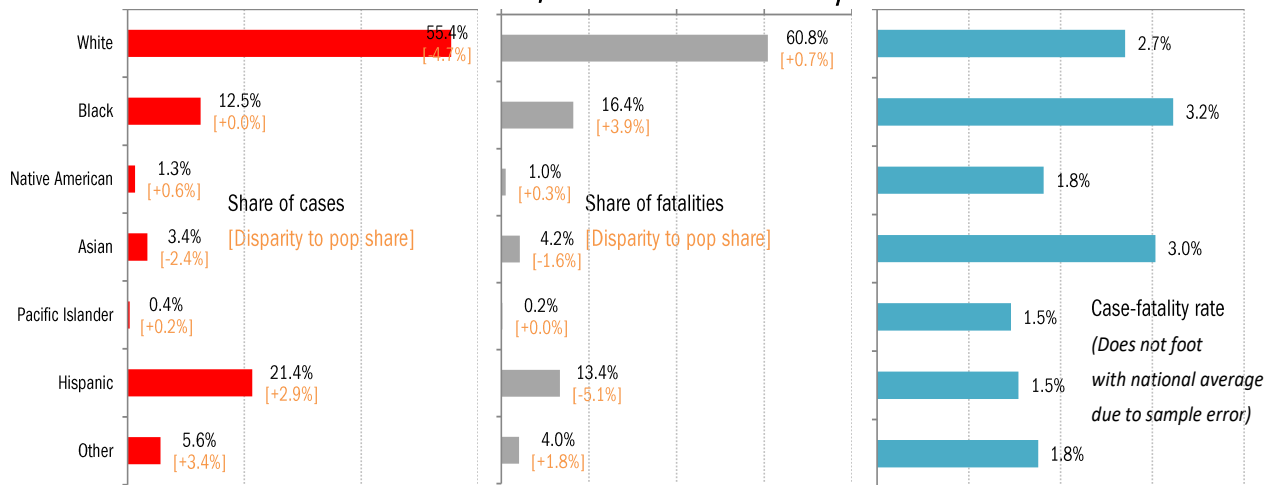
Source: [Covid Tracking Project](#), TrendMacro calculations

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

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

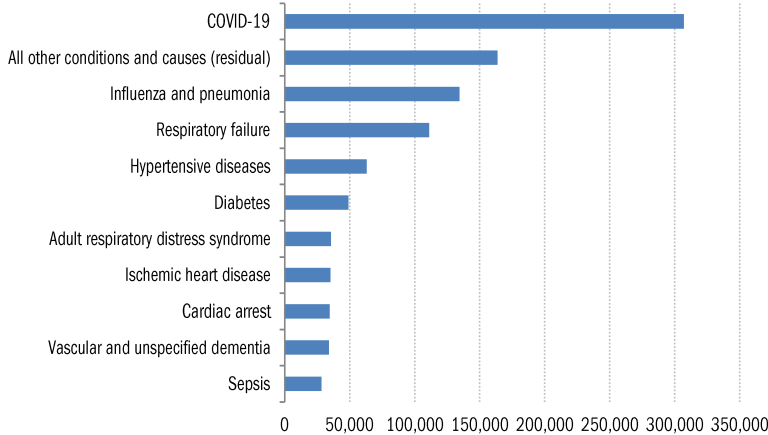


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidites

Top-ten joint causes of Covid mortalities, cumulative



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](#), Comorbidites [CDC](#), TrendMacro calculations

Recommended reading

[Biden plans to release nearly all available vaccine doses in an attempt to speed delivery.](#)

Sheryl Gay Stolberg, Katherine J. Wu, Michael Crowley and Karen Zraick
New York Times
January 8, 2021

[Fauci sees greater China role in COVID-19 spread, one year on](#)

Eileen Drage O'Reilly
Axios
January 7, 2021

[Open Schools, Covid-19, and Child and Teacher Morbidity in Sweden](#)

Jonas F. Ludvigsson et al.
New England Journal of Medicine
January 6, 2021

[Covid-19 immunity likely lasts for years](#)

Neel V. Patel
MIT Technology Review
January 6, 2021

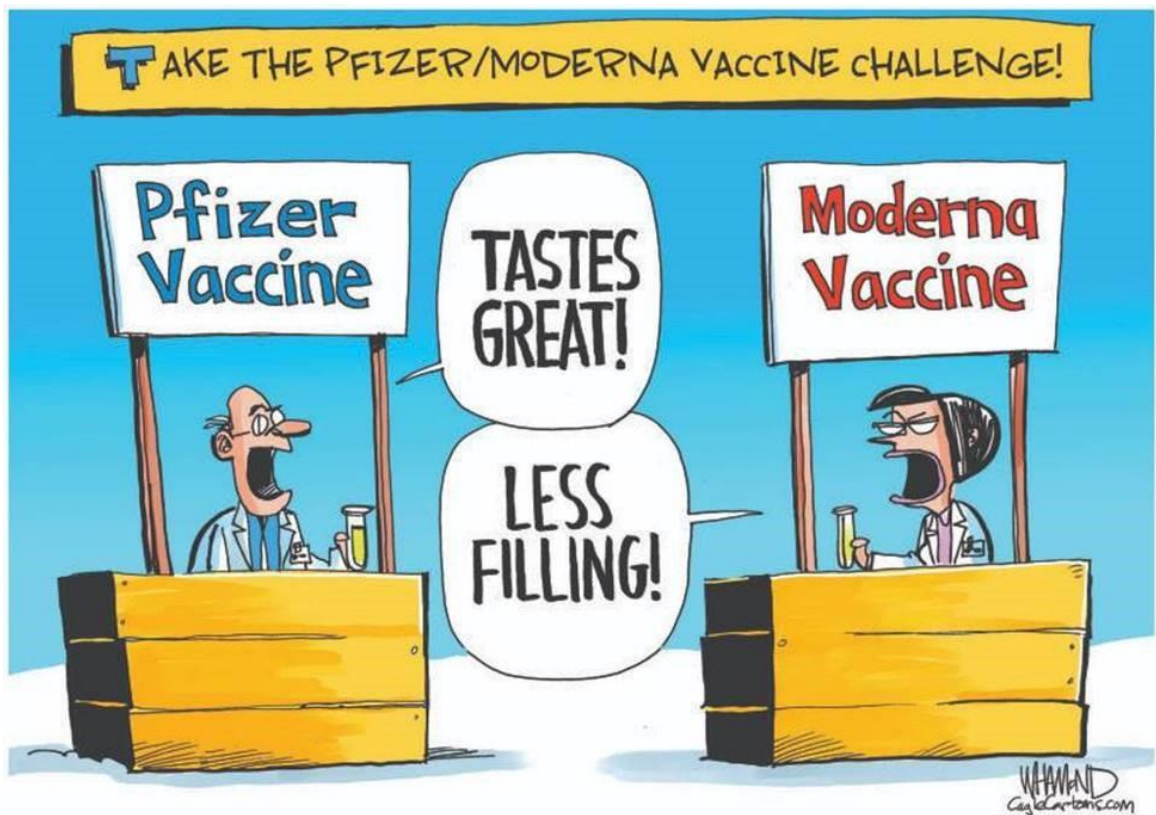
[Neutralization of N501Y mutant SARS-CoV-2 by BNT162b2 vaccine-elicited sera](#)

Xuping Xie et al.
bioRxiv
January 7, 2021

[Pfizer, BioNTech Shot May Defeat New Variants, Study Shows](#)

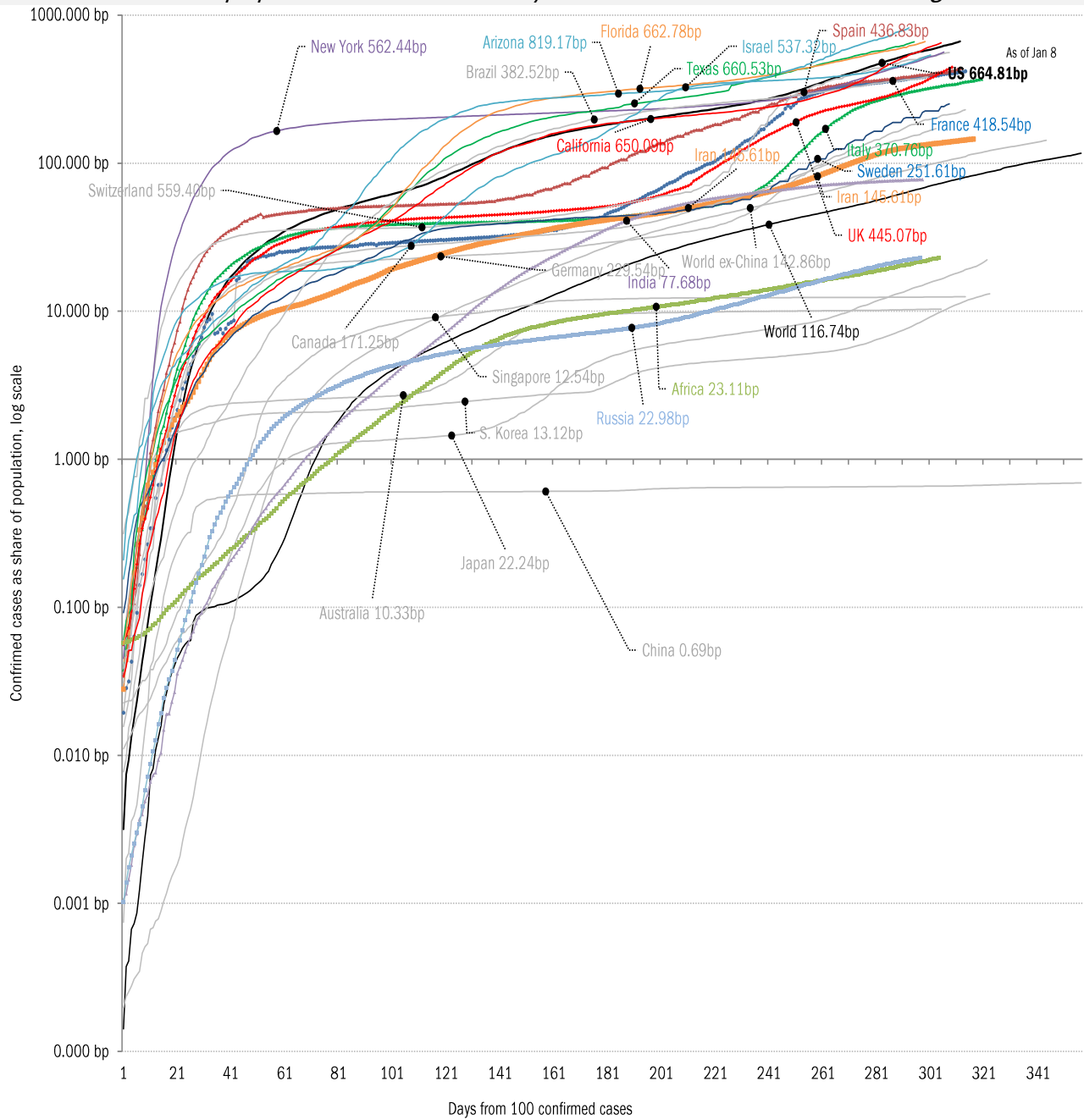
Naomi Kresge and Jason Gale
Bloomberg
January 8, 2021

Meme of day



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

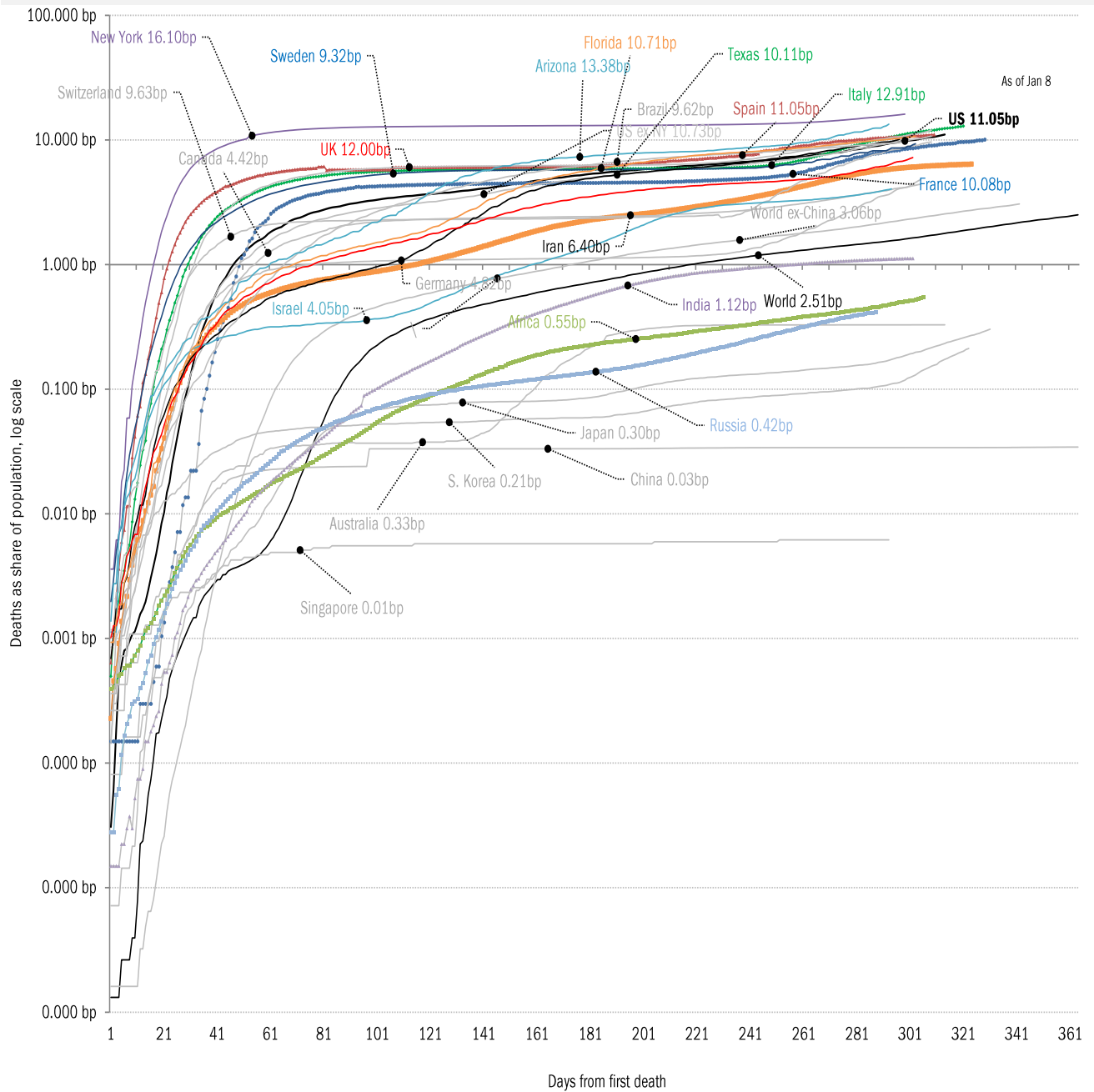
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

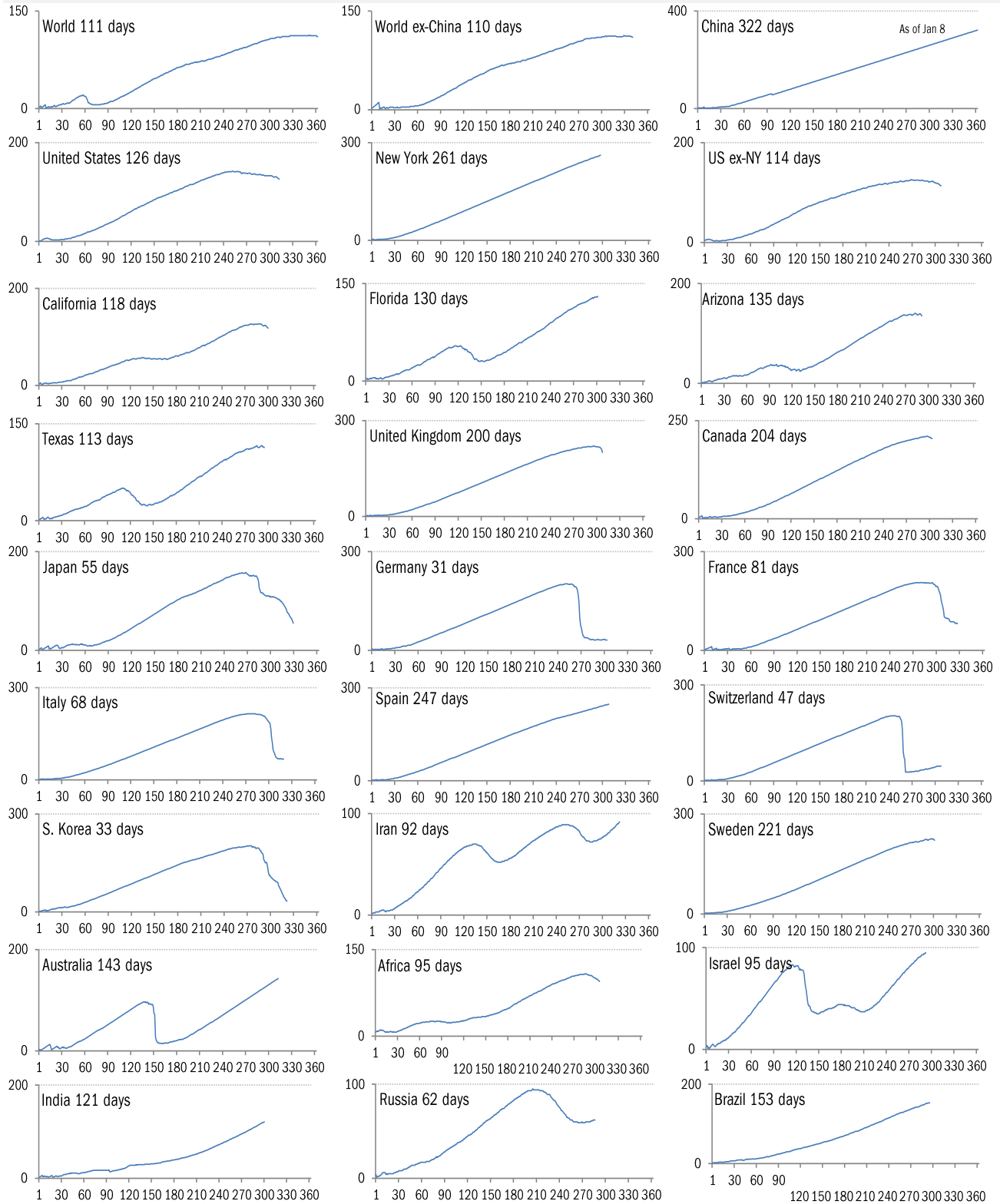


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

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

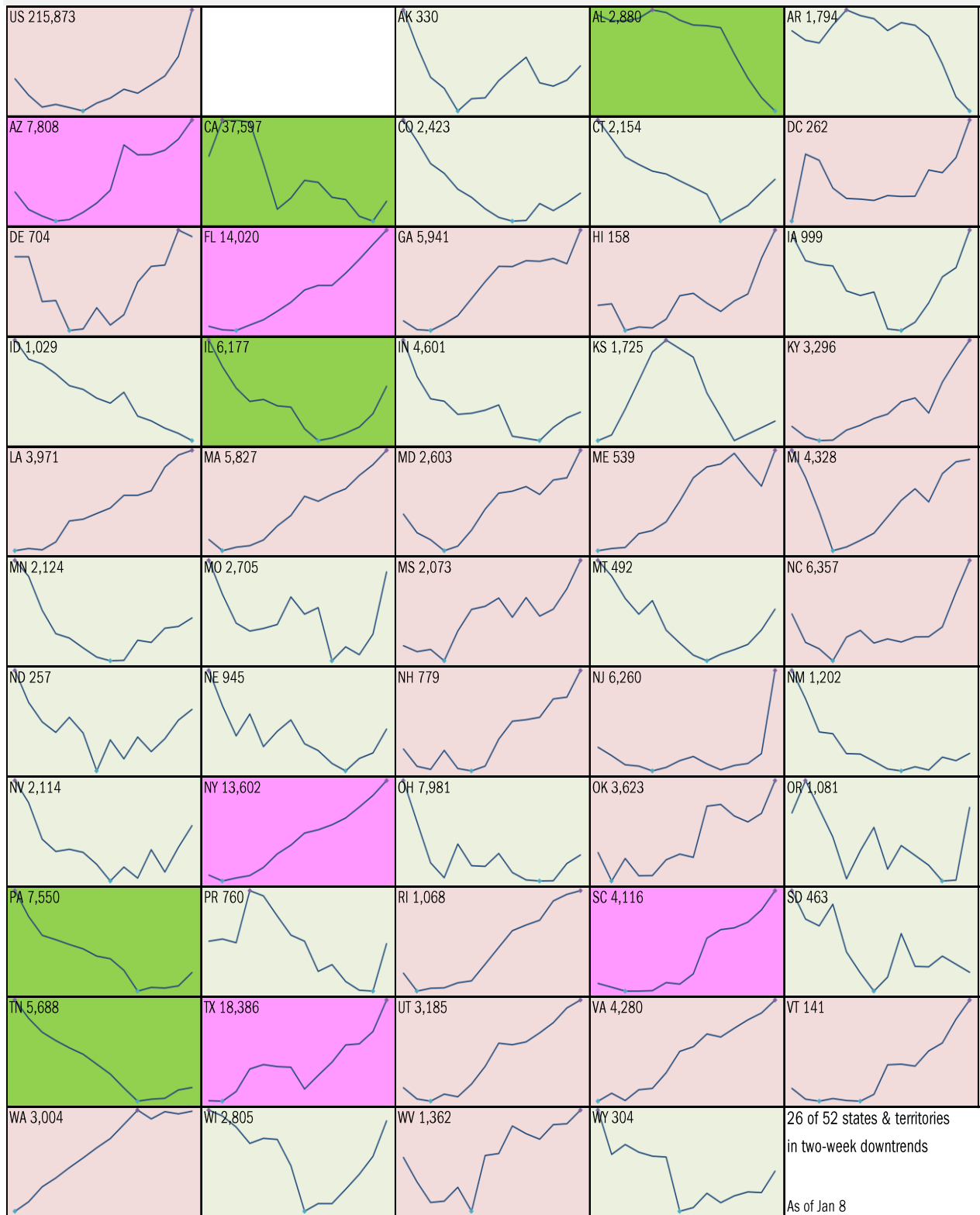
Vertical: days to double deaths Horizontal: days from first death

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

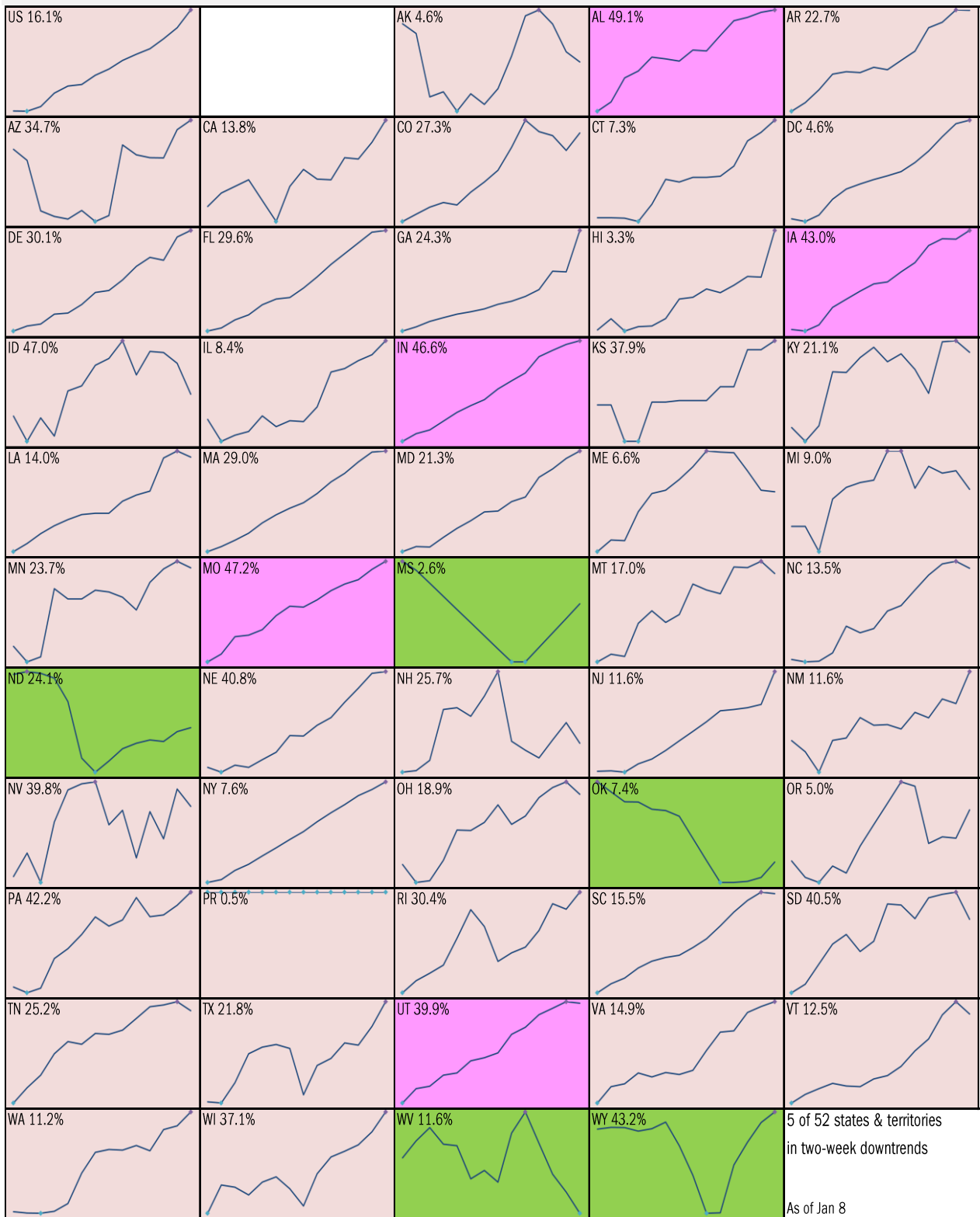


Source: [Covid Tracking Project](#), TrendMacro calculations

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



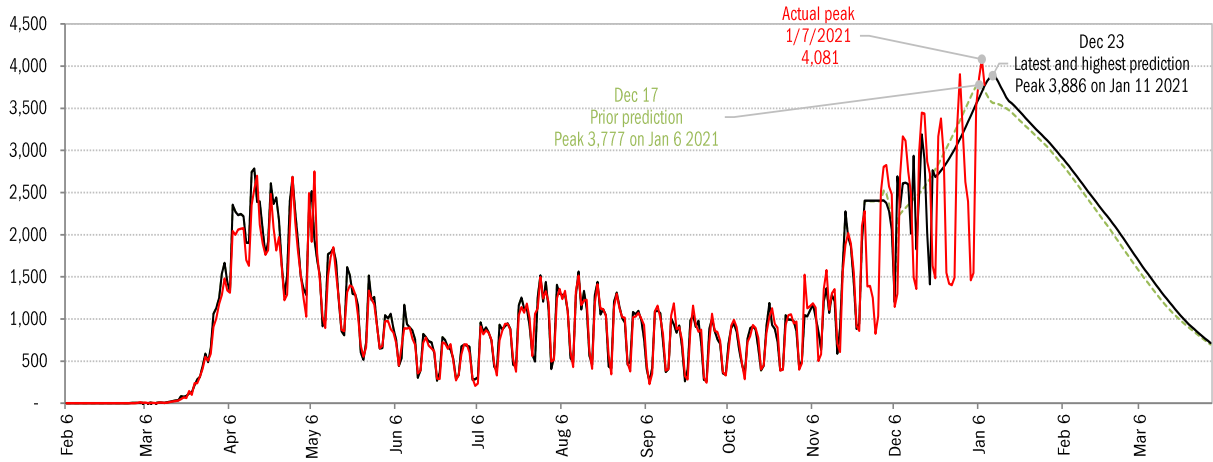
Source: [Covid Tracking Project](#), TrendMacro calculations

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

New daily fatalities

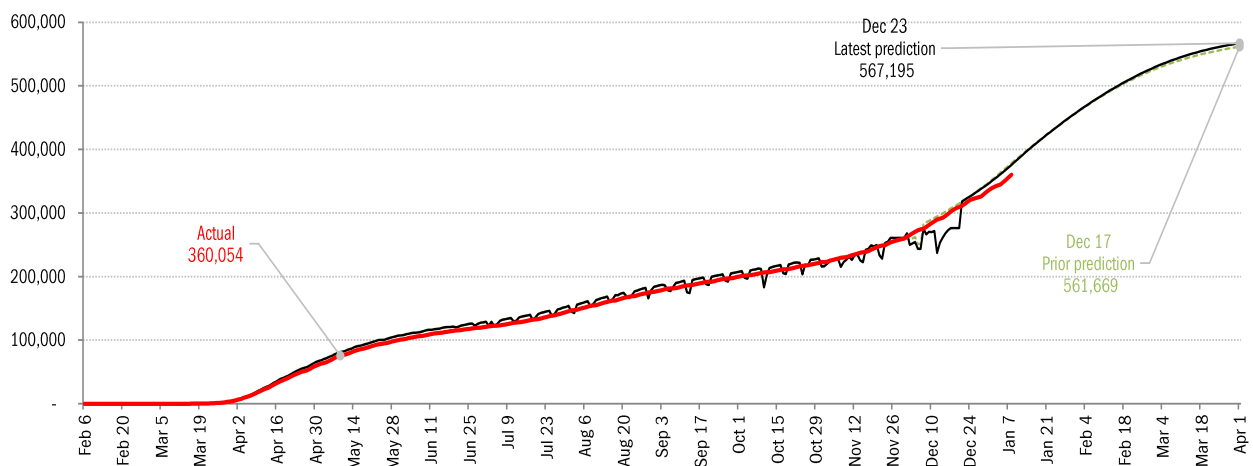
As of Jan 8

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

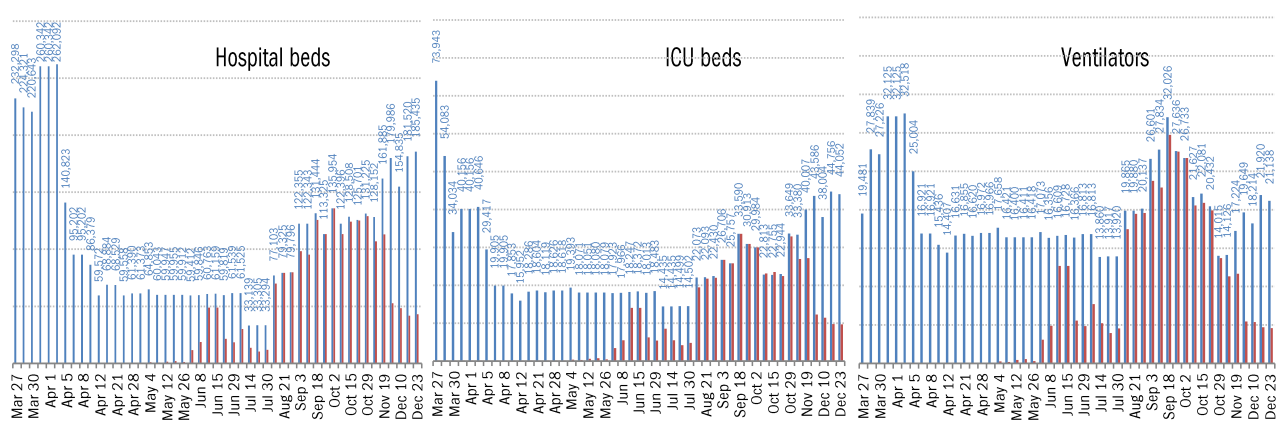


Cumulative fatalities

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

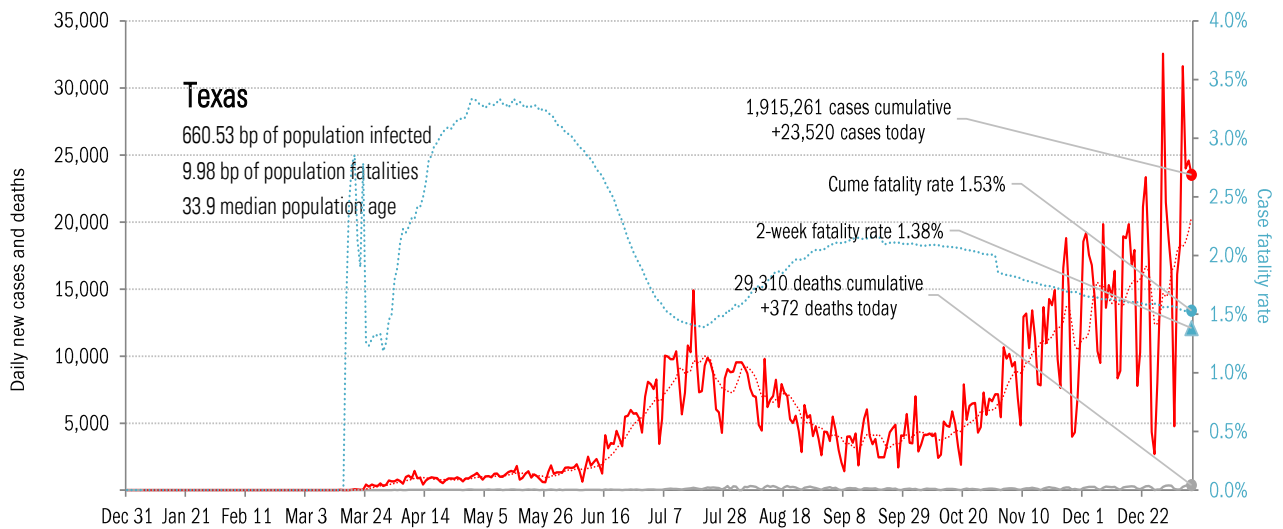
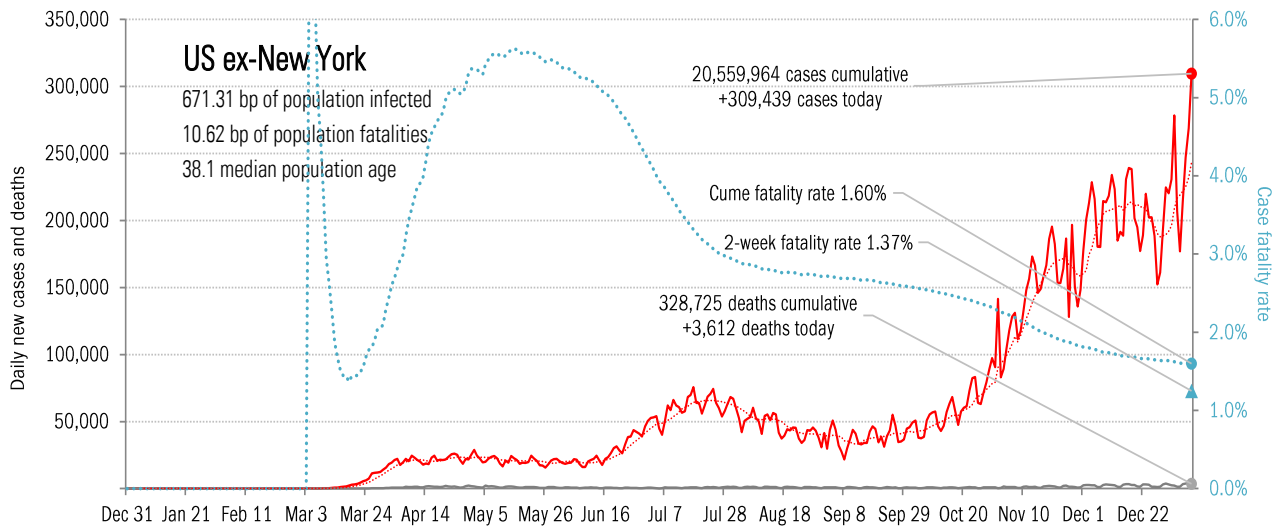
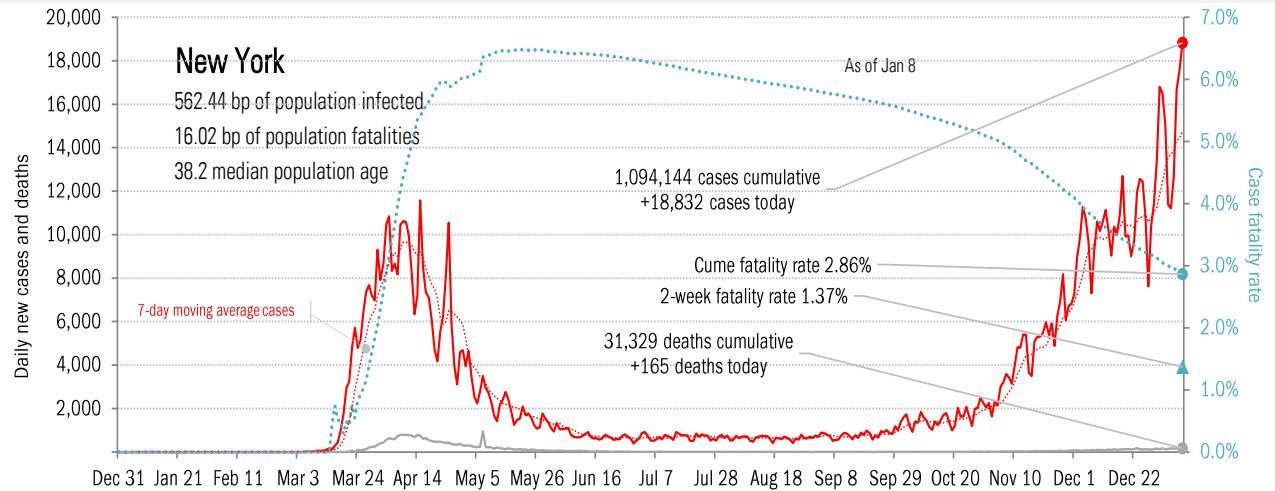


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



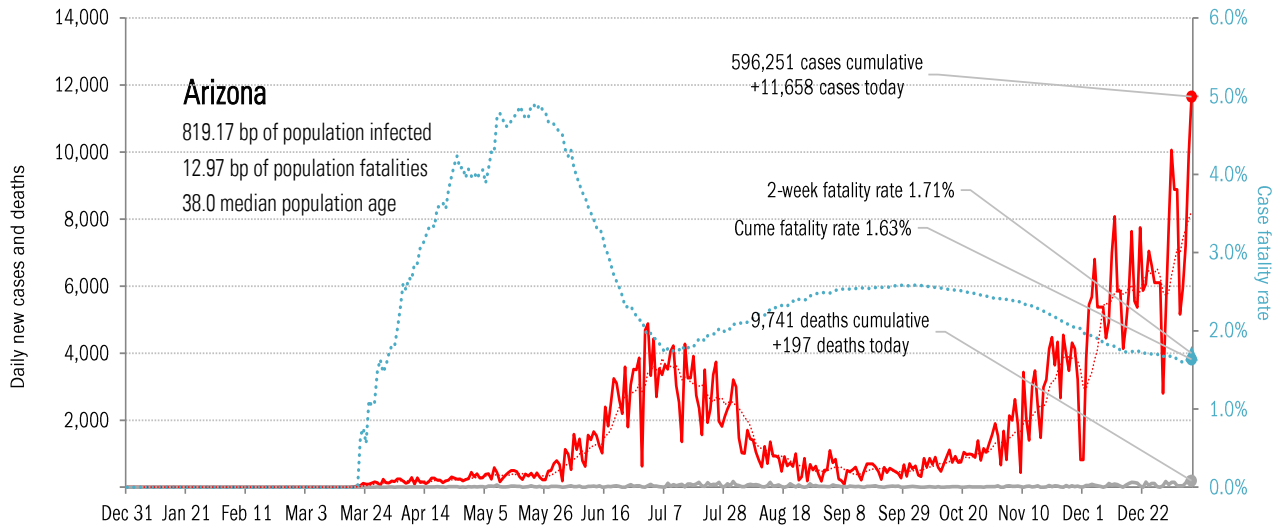
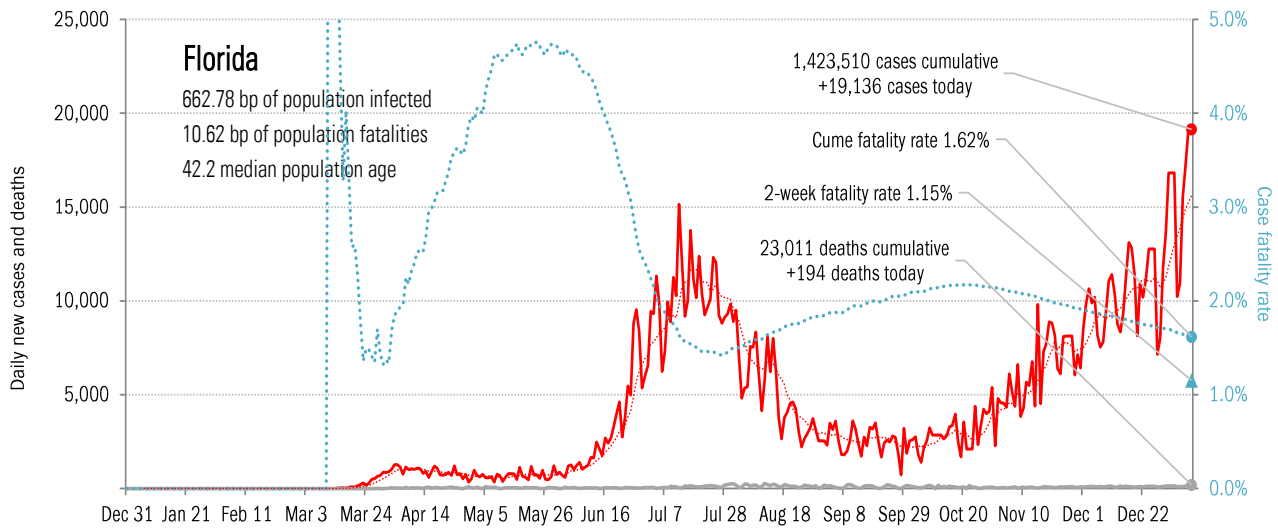
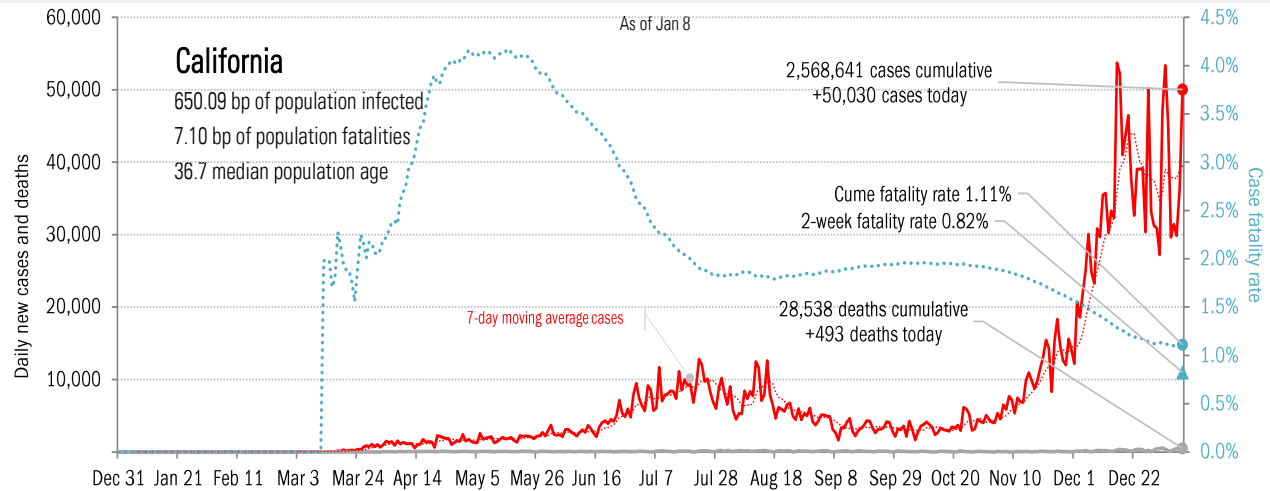
Source: [IHME Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



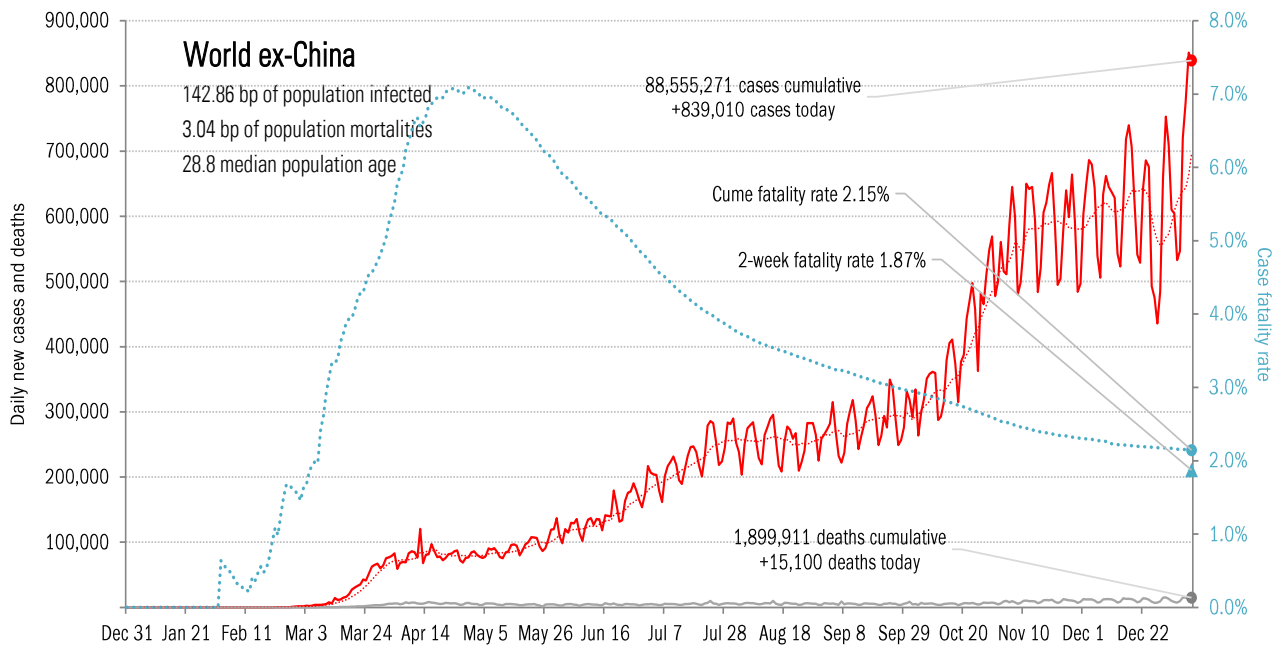
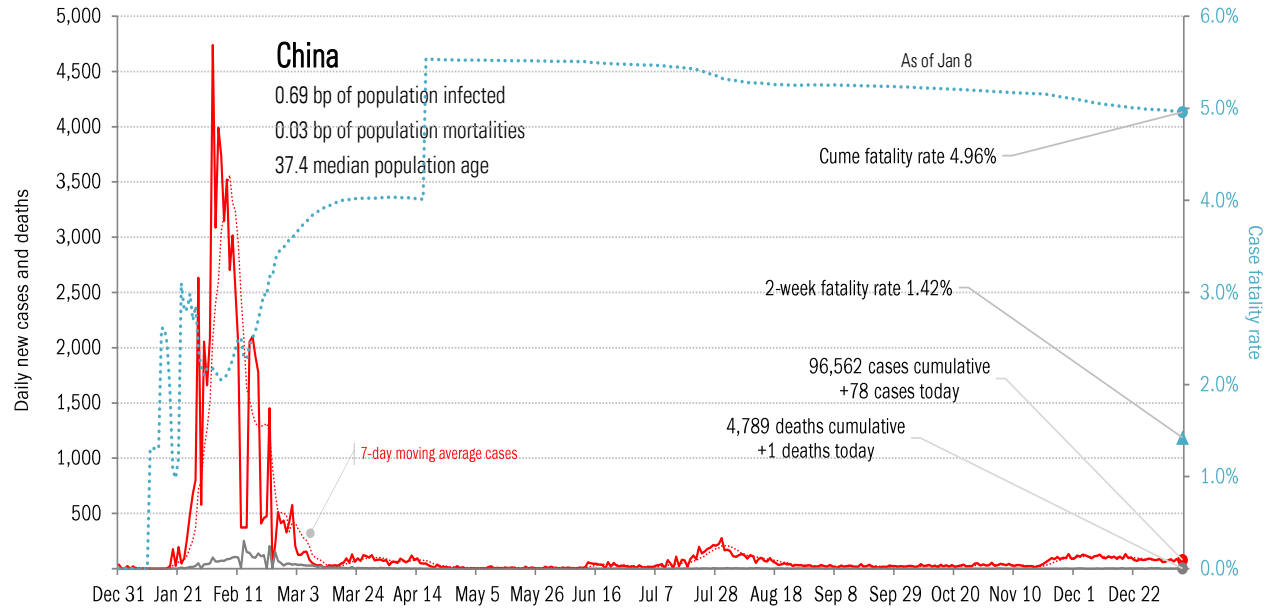
Source: [Covid Tracking Project](#), TrendMacro calculations

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



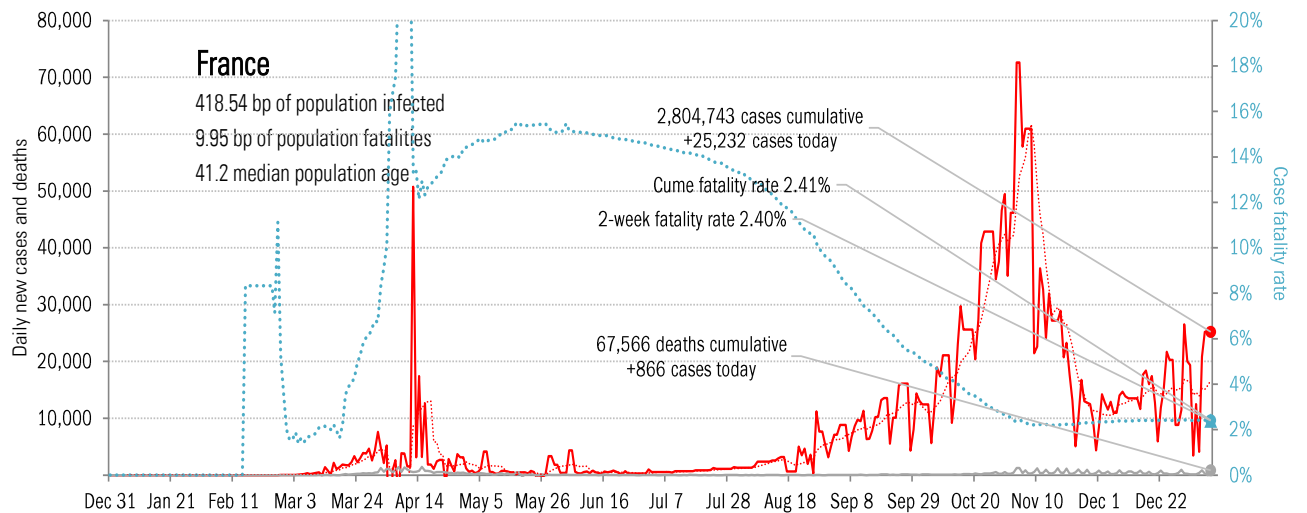
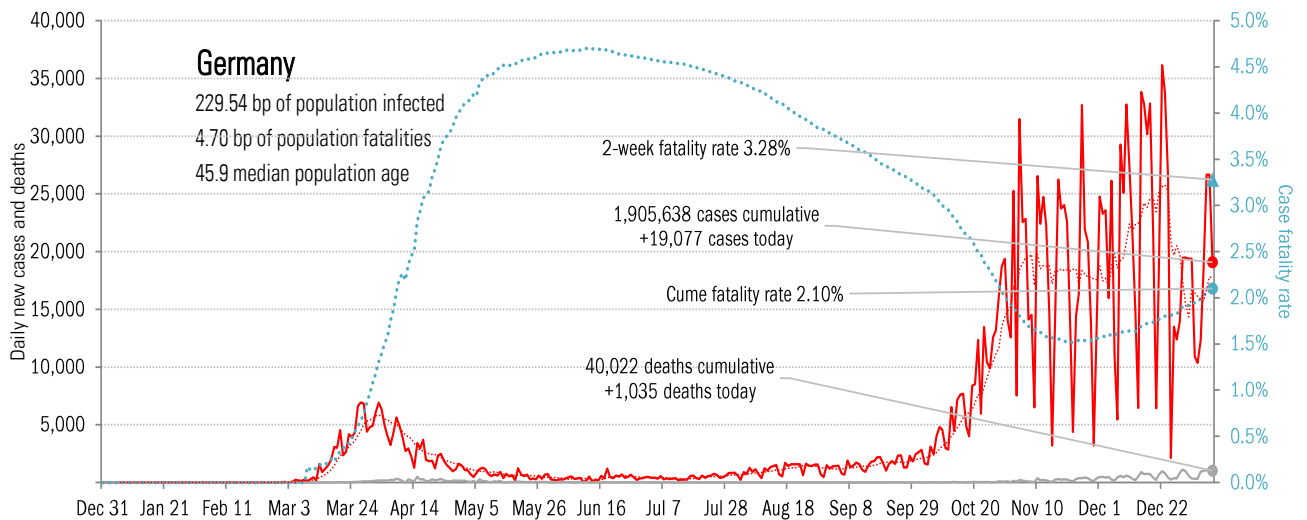
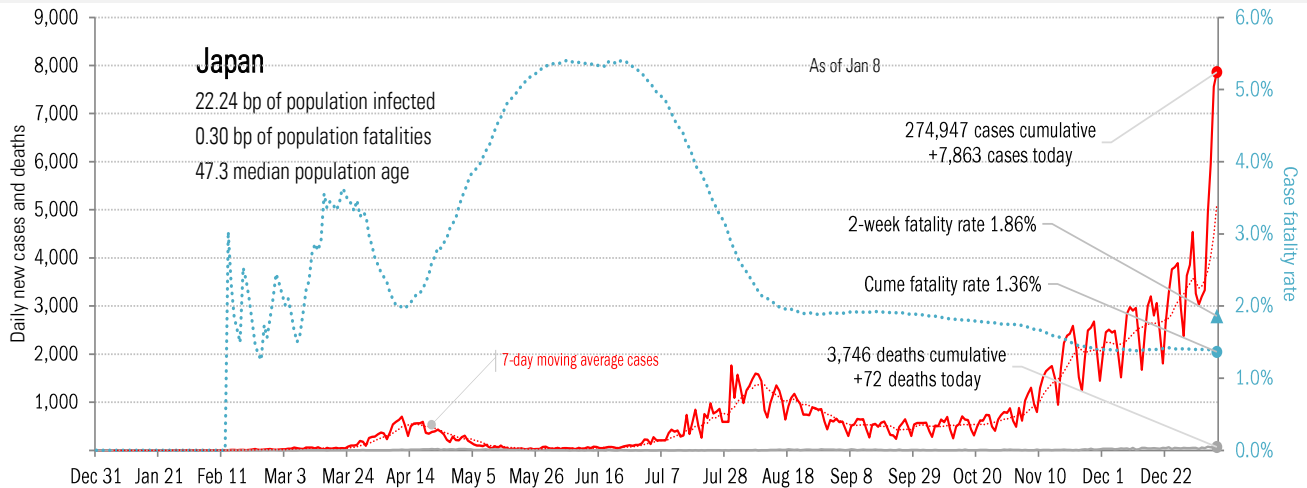
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



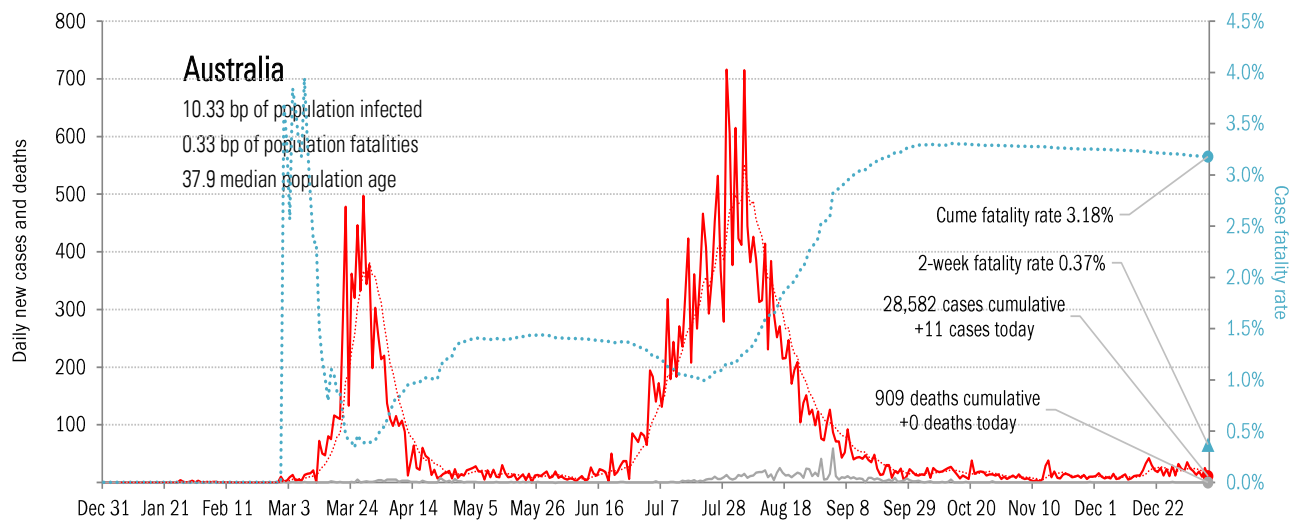
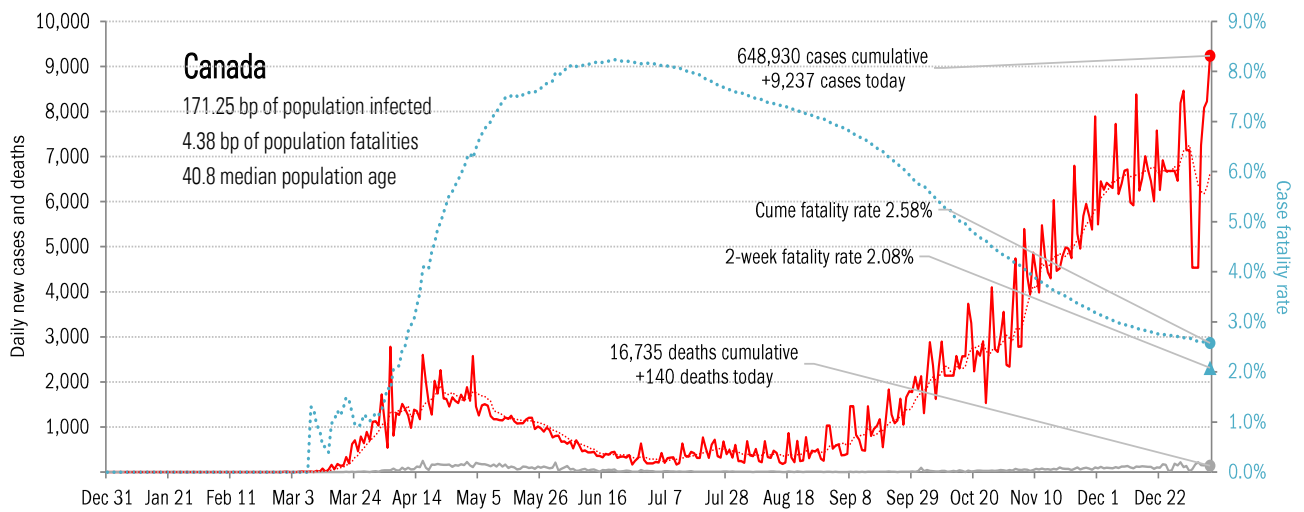
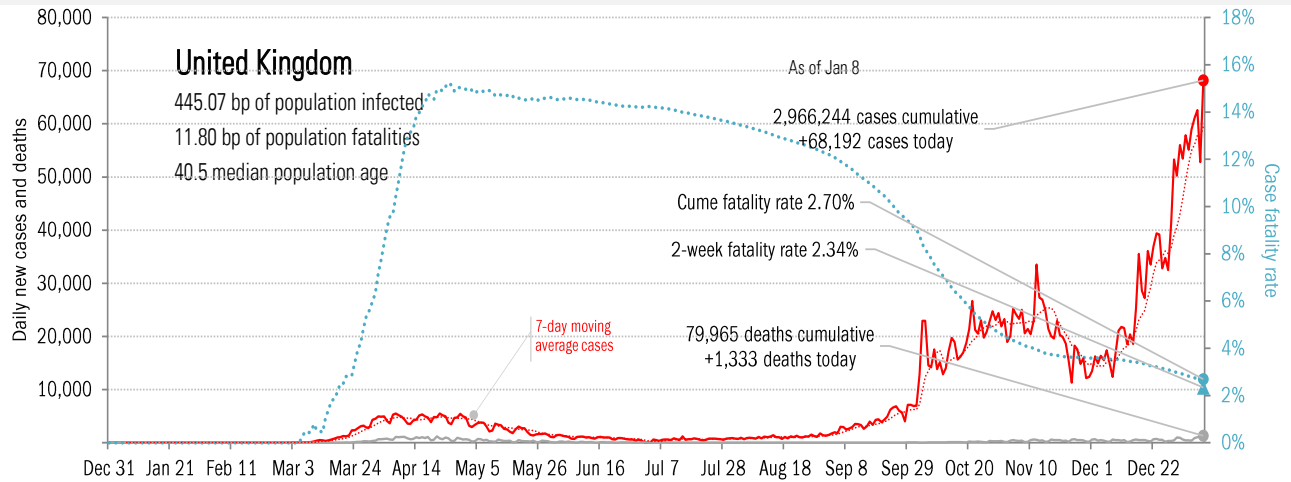
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



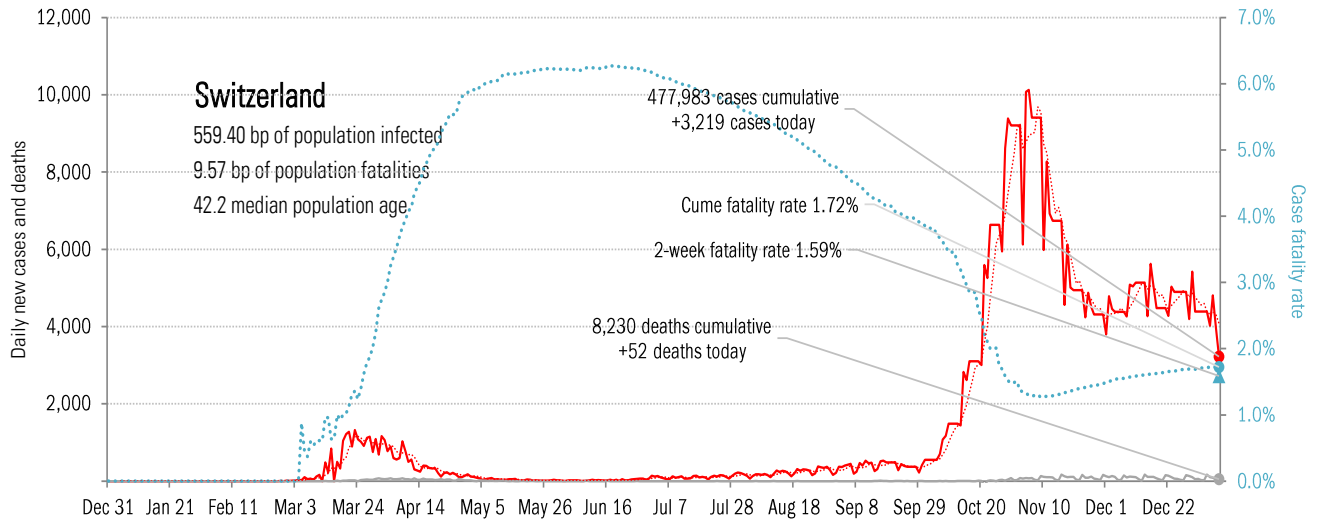
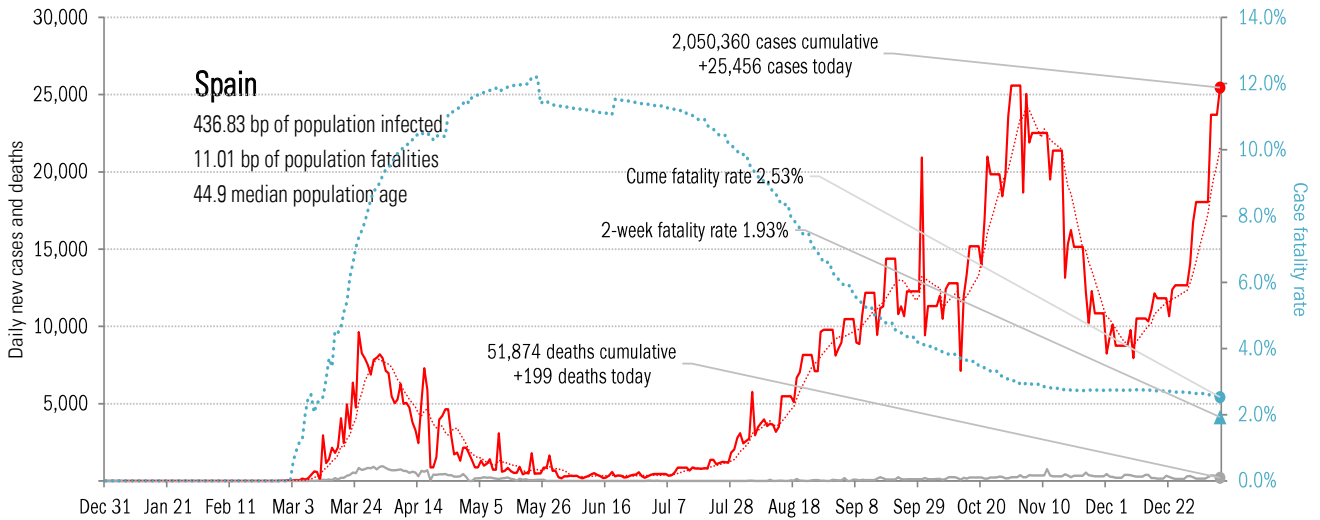
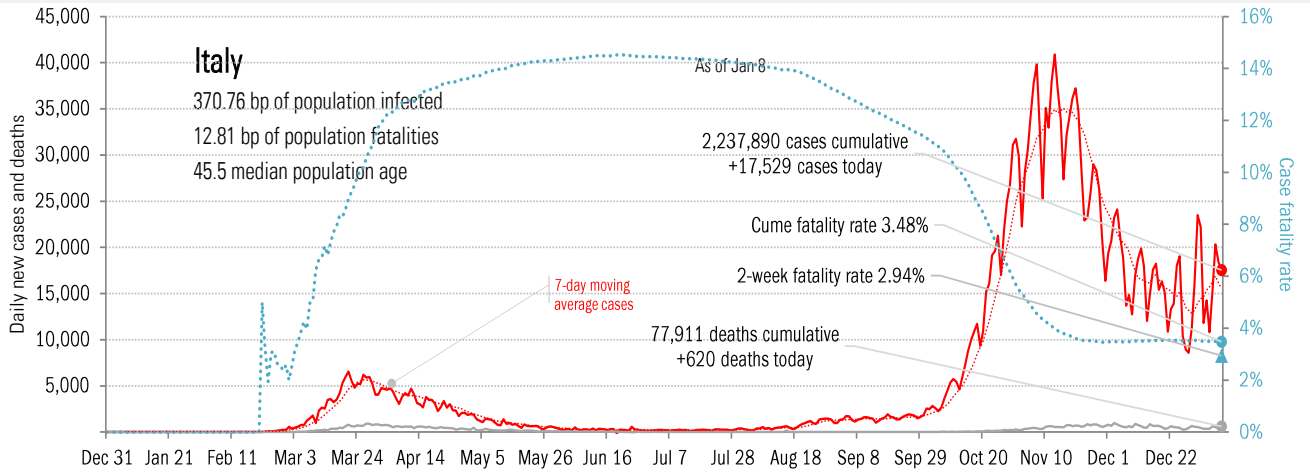
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



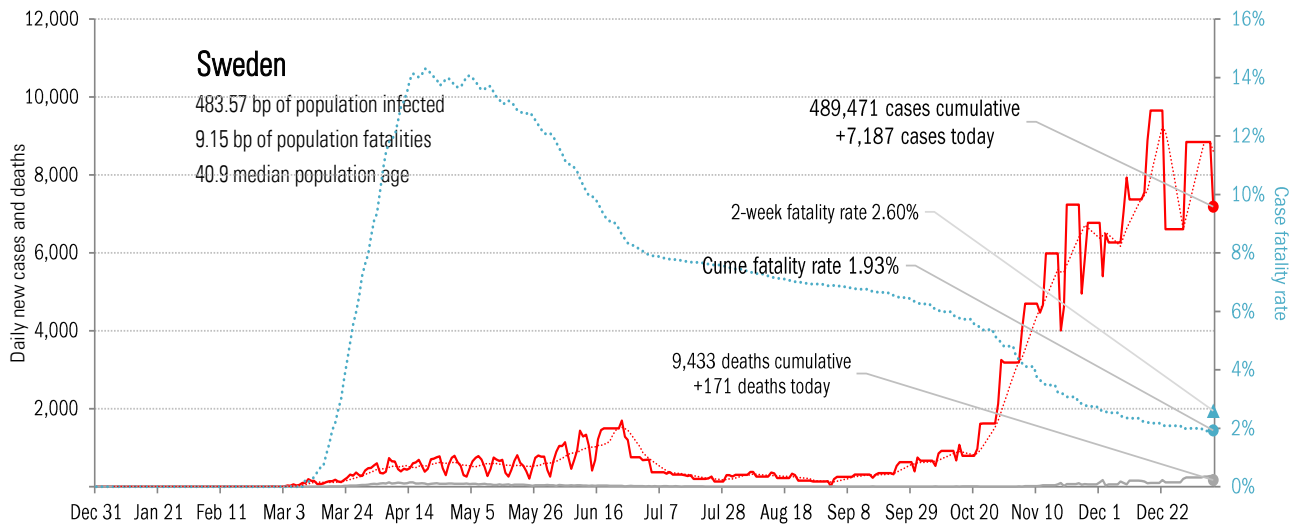
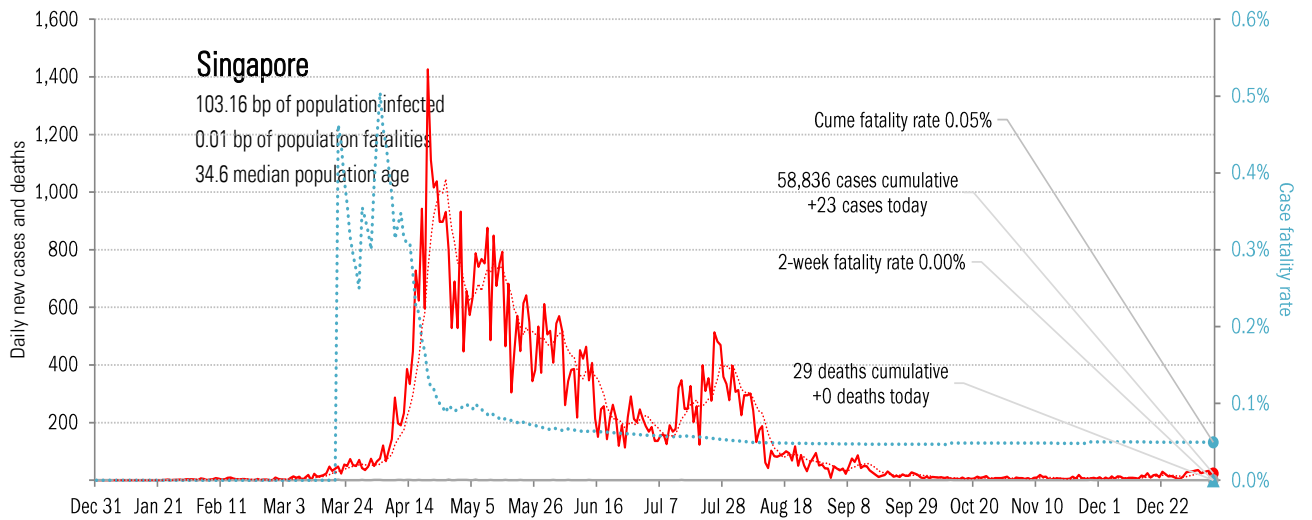
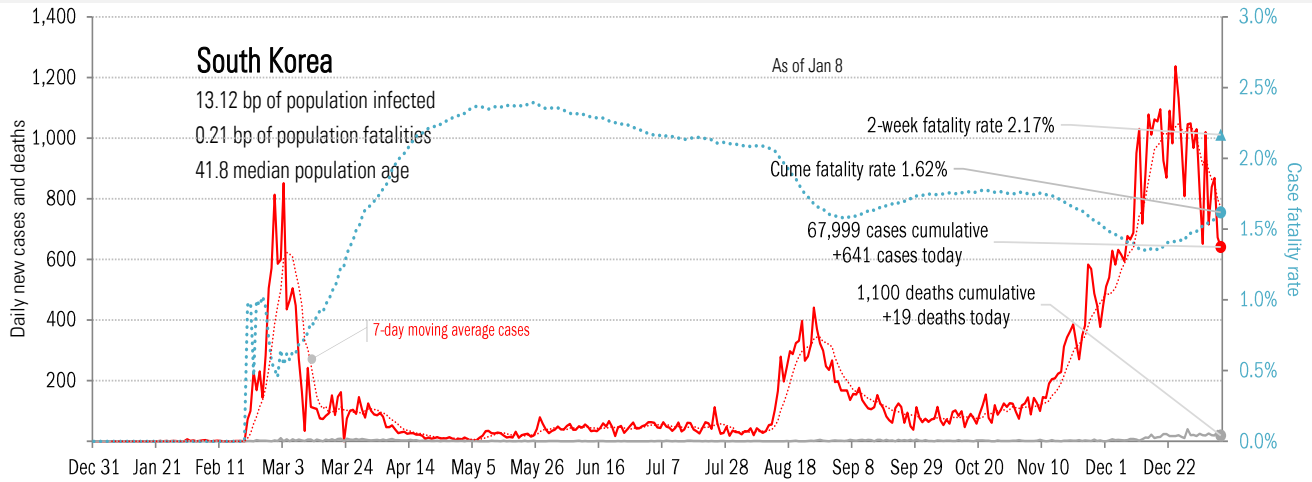
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



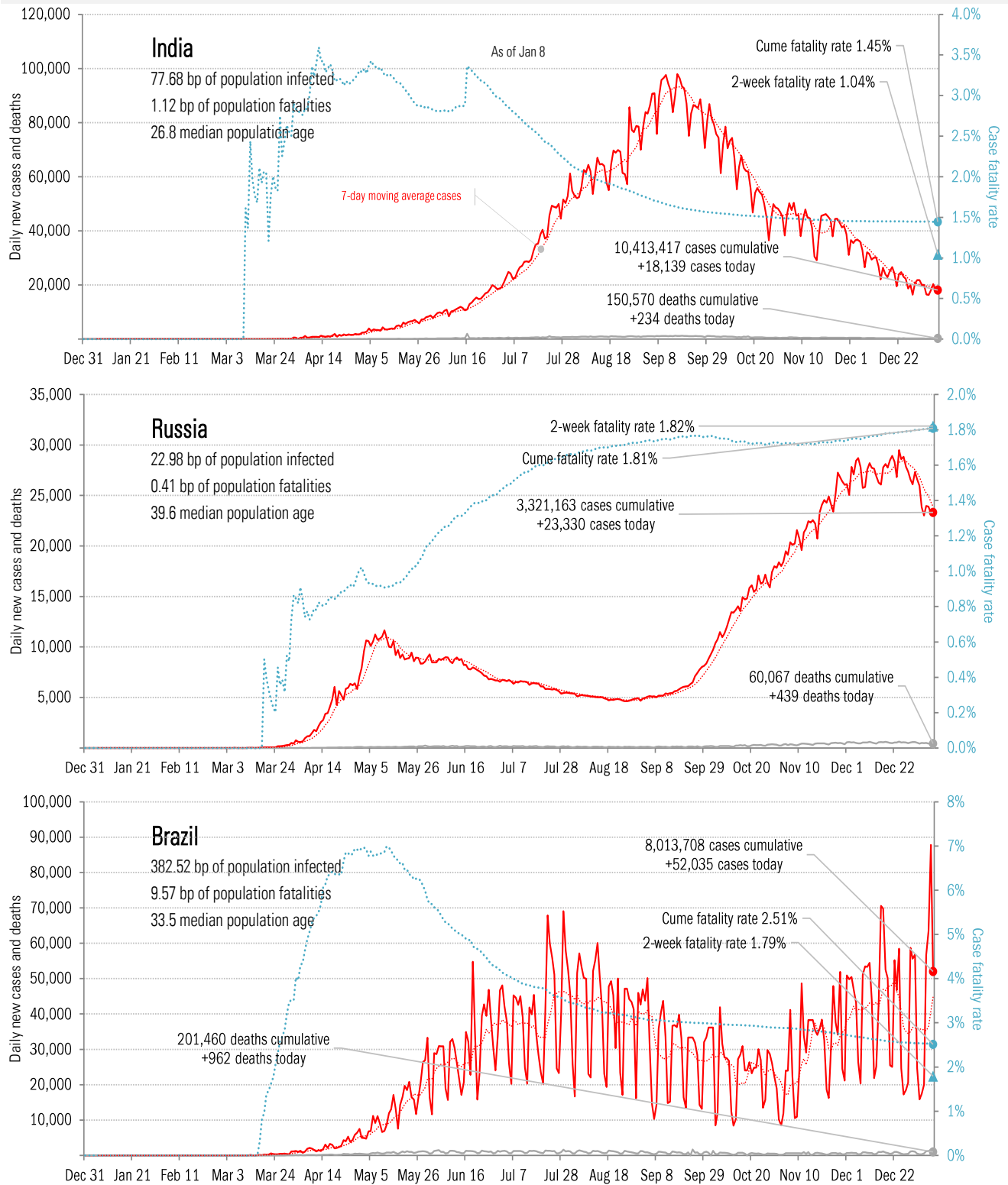
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



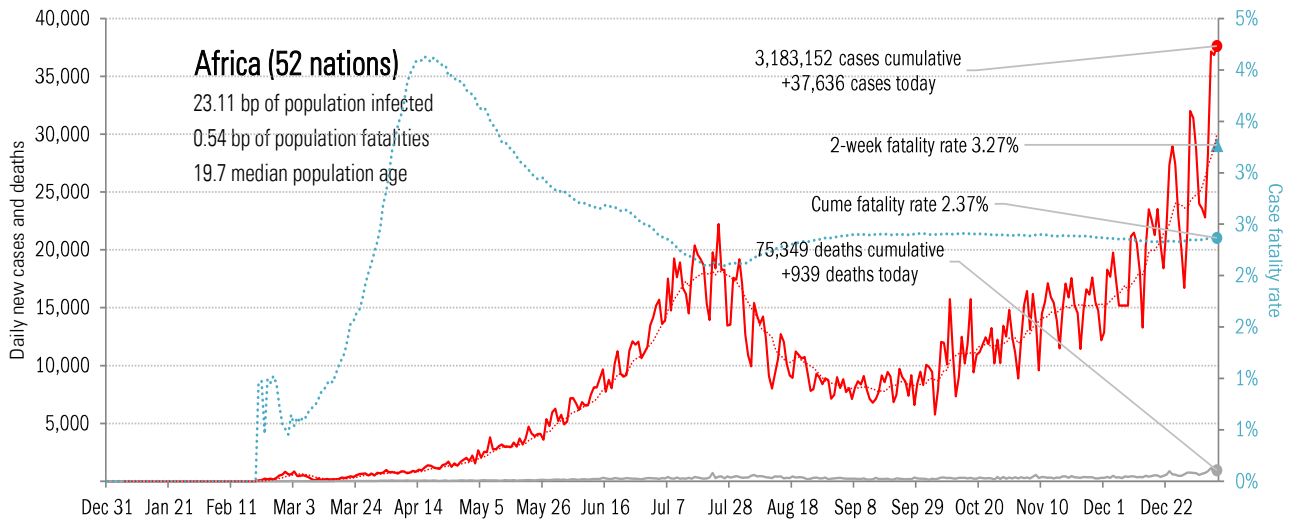
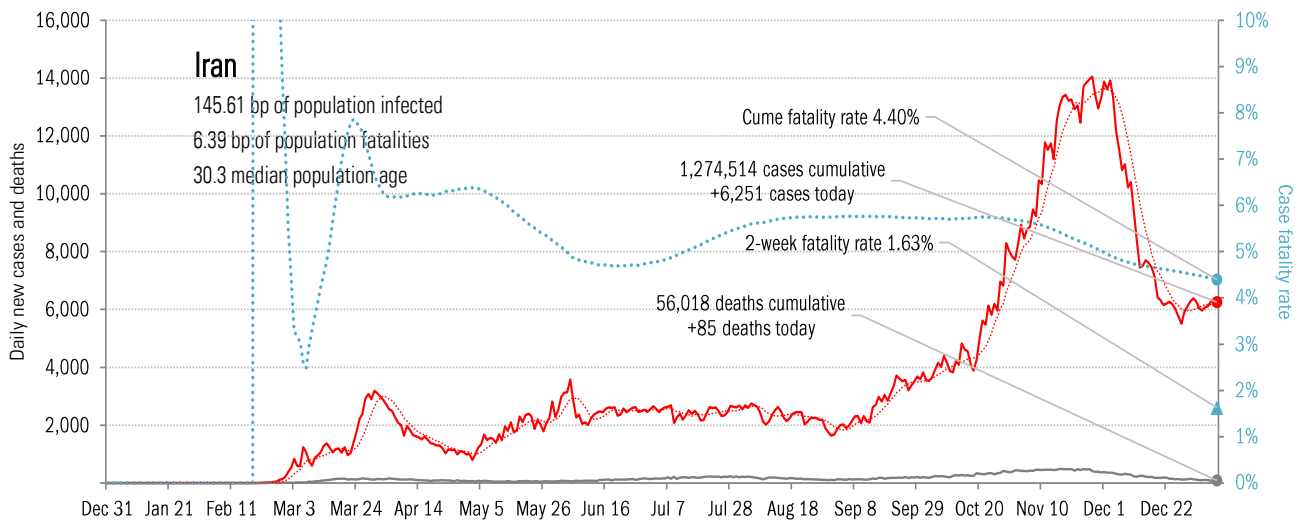
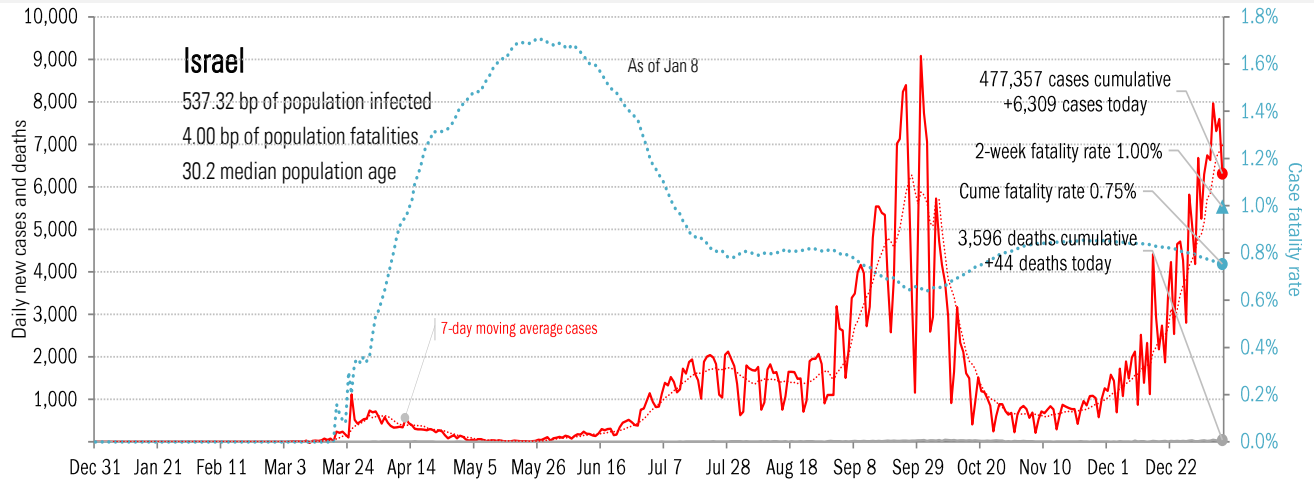
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



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

Impact in the Middle East and Africa



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