

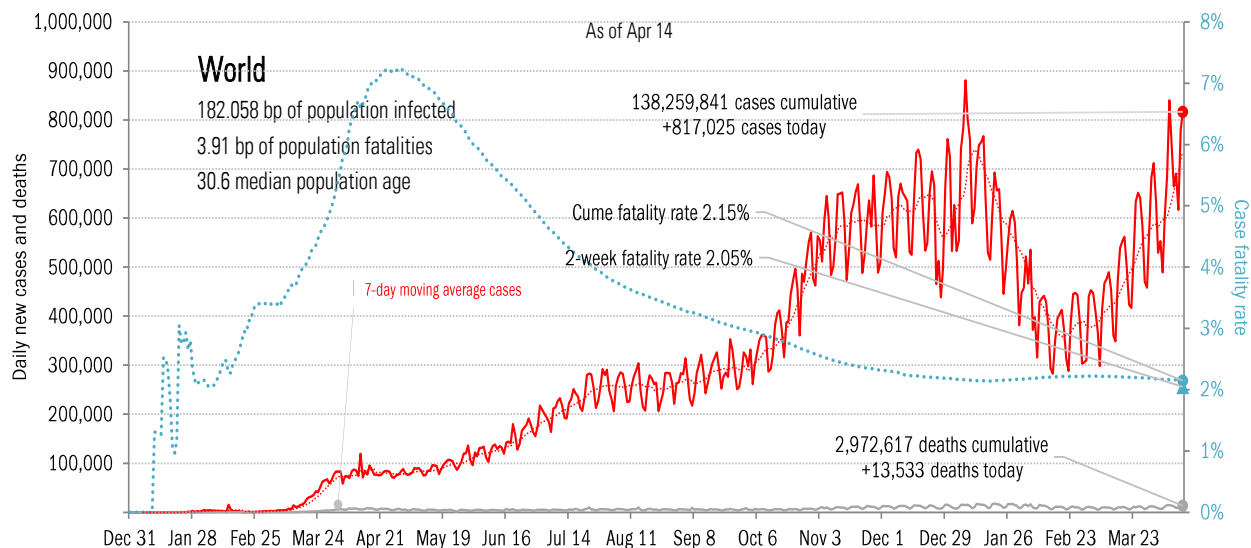
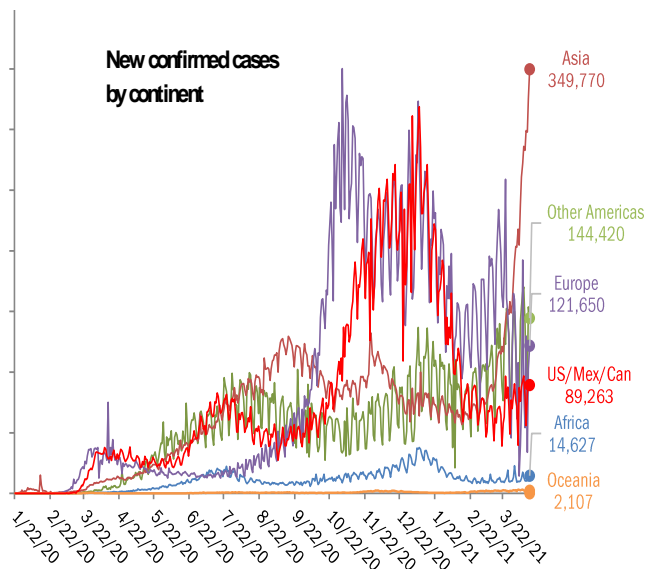
Data Insights: Covid-2019 Monitor

Thursday, April 15, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+200,739	Brazil	+3,459
United States	+75,375	India	+1,038
Brazil	+73,513	United States	+956
Turkey	+62,797	Poland	+804
France	+43,507	Mexico	+530
Germany	+31,117	Ukraine	+473
Iran	+25,582	Italy	+469
Argentina	+25,157	Russia	+393
Poland	+21,266	Argentina	+368
Colombia	+16,487	Colombia	+337
+575,540		+8,827	
World	+817,025	World	+13,533
Top ten	70%	Top ten	65%



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

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

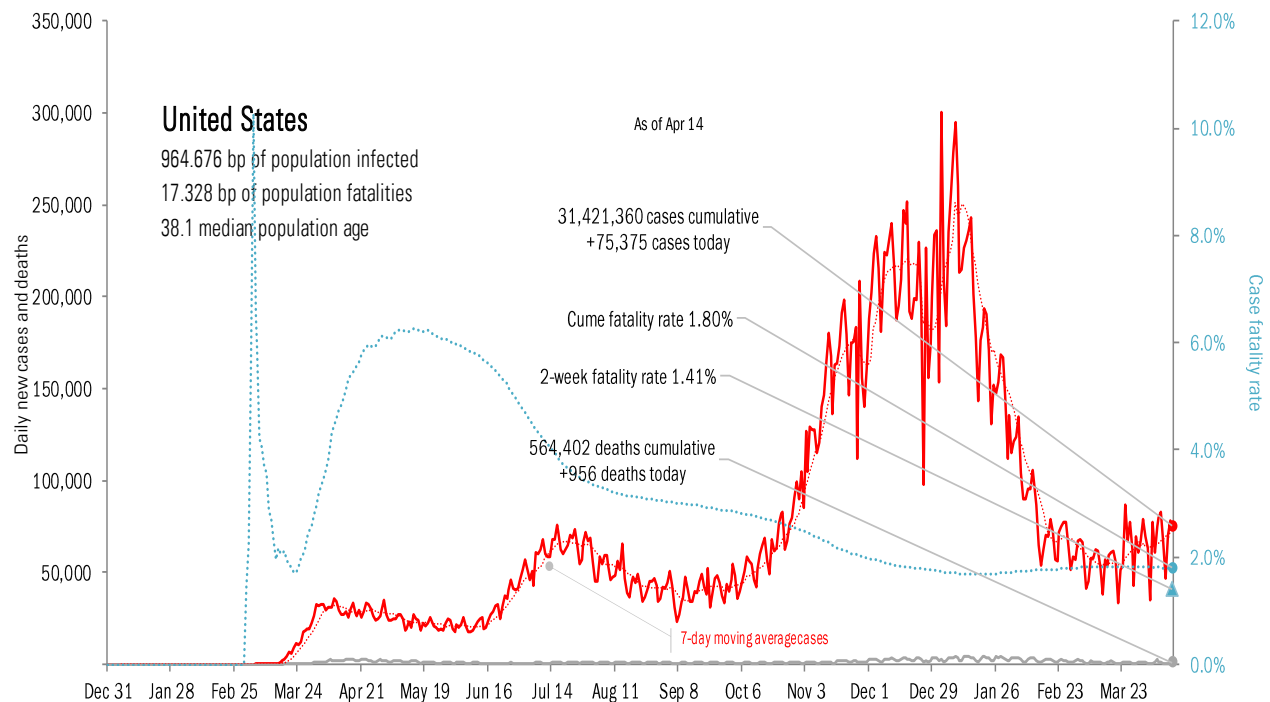
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use									
MI	+9,349	CA	+170	PR	+205	CA	3,708,716	CA	60,717	TX	230,397	RI	90%	MI	29%														
FL	+6,772	NY	+92	MI	+124	TX	2,840,869	NY	51,350	CA	225,627	MA	84%	MD	25%														
PA	+6,275	TX	+70	GA	+108	FL	2,141,686	TX	49,359	FL	157,459	MD	83%	RI	20%														
NY	+6,060	NJ	+61	IL	+54	NY	1,973,308	FL	34,164	NY	120,811	PA	81%	NY	18%														
TX	+3,709	GA	+52	FL	+38	IL	1,288,844	PA	25,502	GA	96,993	MO	81%	DC	18%														
NJ	+3,563	PA	+51	NJ	+30	PA	1,090,228	NJ	25,006	CH	77,697	MI	80%	PA	16%														
IL	+3,546	FL	+44	ND	+25	GA	1,078,379	IL	23,865	PA	77,625	CT	80%	MN	16%														
NC	+2,359	IL	+39	MN	+24	CH	1,045,945	GA	19,600	IL	70,990	MN	79%	NJ	14%														
CO	+2,326	MI	+37	WA	+21	NJ	963,484	CH	18,917	KY	69,597	FL	78%	TX	14%														
MA	+2,244	OK	+28	CO	+18	NC	938,784	MI	17,694	AZ	59,058	WV	78%	WV	13%														
+46,203			+644			+647			17,070,243			326,174			1,186,254														
All states			+75,375			+956			+776			All states			31,421,360			564,402			2,115,580			All states		70%		67%	
Top ten			61%			67%			83%			Top ten			54%			58%			56%			Median		71%		10%	

Some states not reporting

Five most improved US states

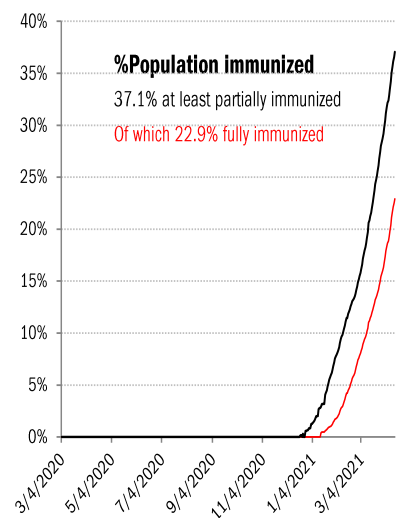
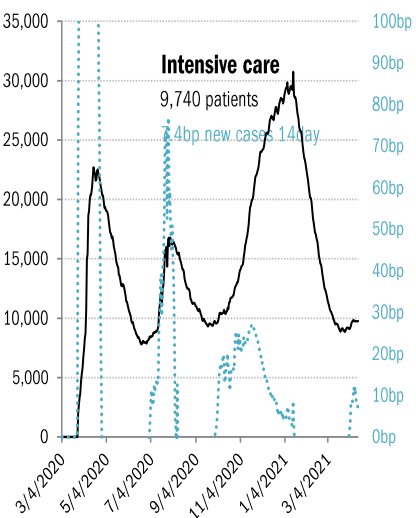
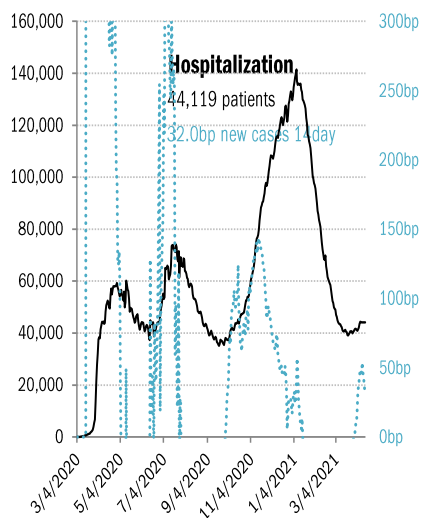
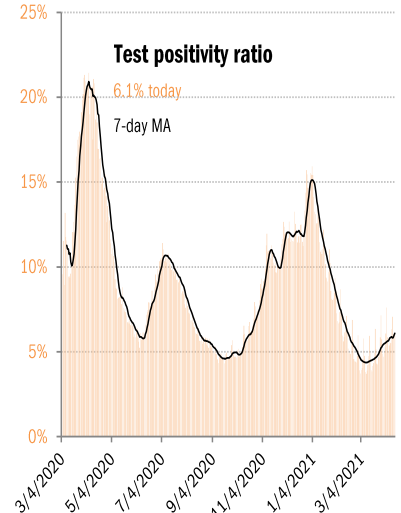
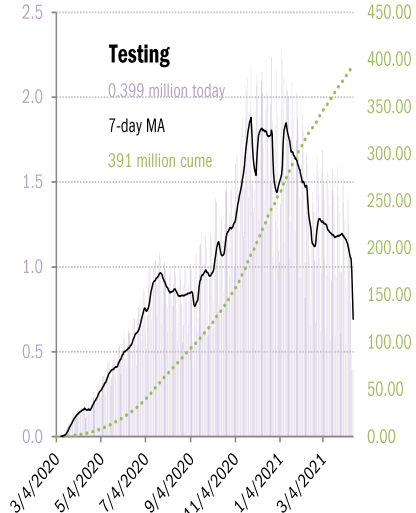
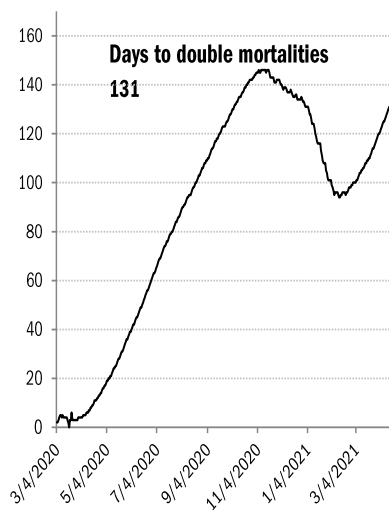
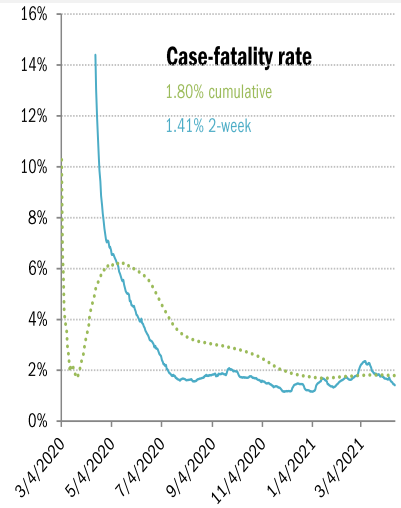
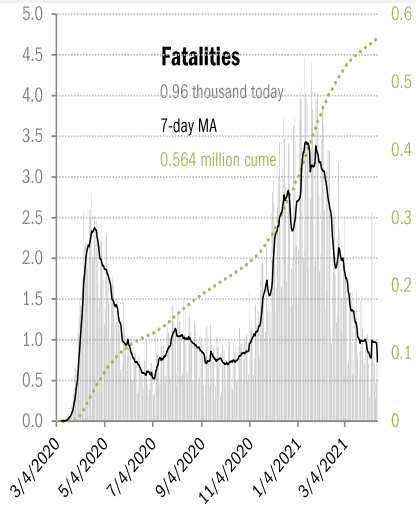
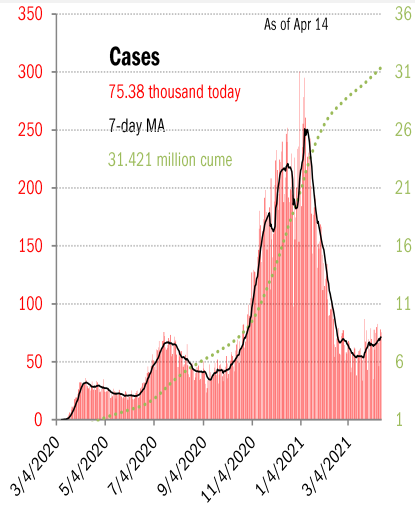
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
FL	-2,296	MO	-58	MI	-93	KY	+74 bp
TX	-1,479	MI	-44	MD	-69	DE	+70 bp
RI	-1,200	FL	-20	KY	-68	MA	+66 bp
AL	-1,155	MS	-20	CT	-27	H	+63 bp
MI	-928	VA	-16	IN	-26	VT	+62 bp



Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

US deep-dive

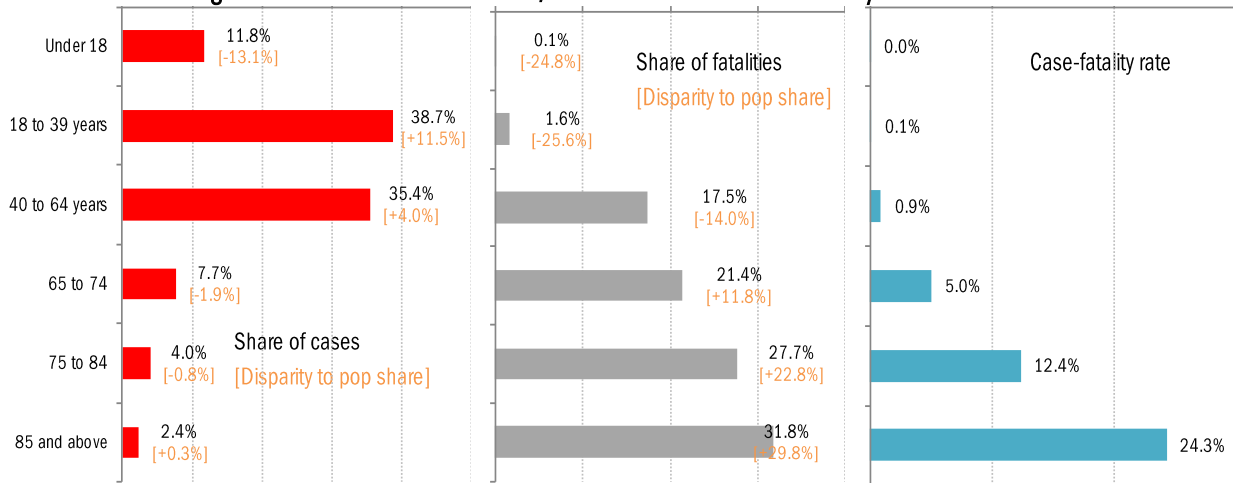
National and state-by-state data do not line up because of different sources



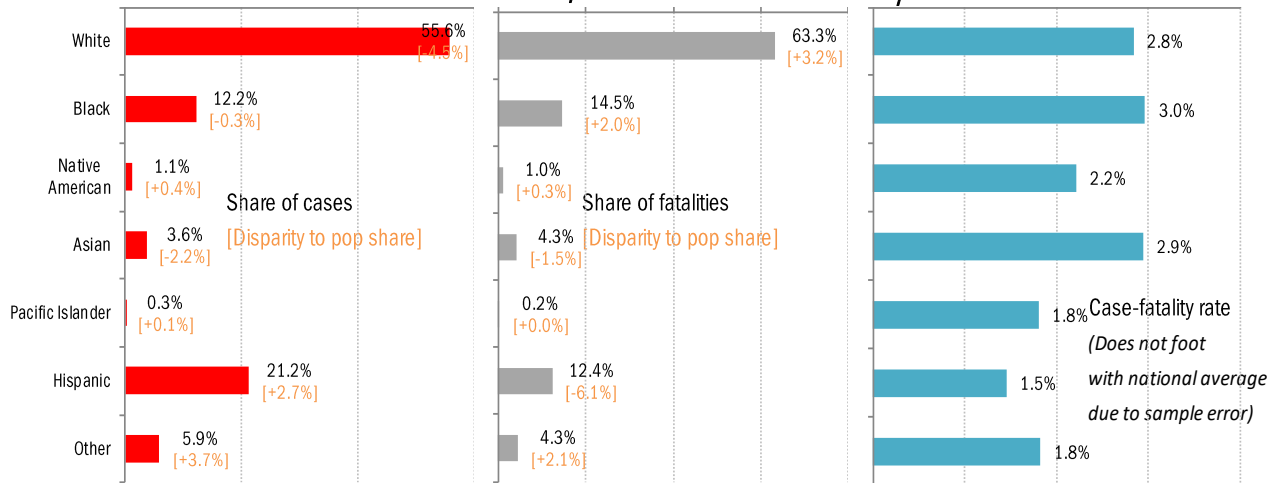
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

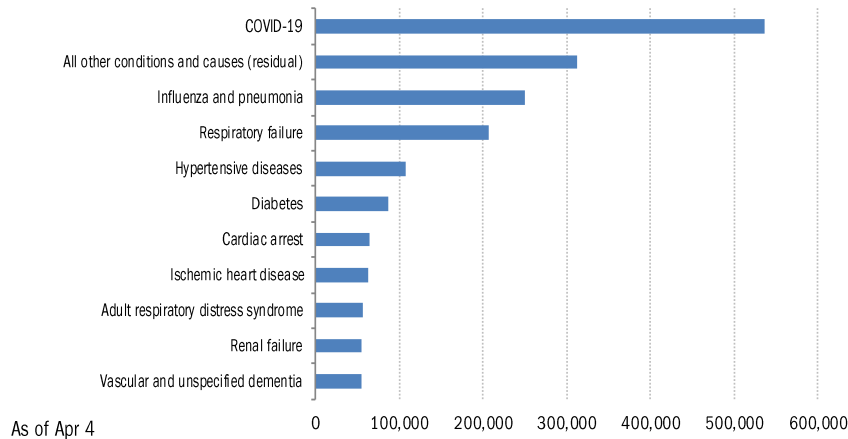


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



For 6% of these deaths, COVID-19 was the only cause mentioned on the death certificate. For deaths with conditions or causes in addition to COVID-19, on average, there were 4.0 additional conditions or causes per death.

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

Recommended reading

[J&J Vaccine and Blood Clots: The Risks, if Any, Are Very Low](#)

Denise Grady and Carl Zimmer
New York Times
April 13, 2021

[C.D.C. Panel Keeps Pause on Use of J&J Vaccine, Citing Need to Assess Potential Risks](#)

Denise Grady and Carl Zimmer
New York Times
April 14, 2021

[One factor in rising gun sales in Chicago? Cash from coronavirus relief checks](#)

Frank Main
Chicago Sun Times
April 9, 2021

[DeSantis Sues CDC In Major Challenge To Agency's Sweeping COVID Power Grab](#)

Chris Donaldson
Trending Politics
April 10, 2021

[Covid and the lockdown effect: a look at the evidence](#)

Simon Wood
The Spectator
April 14, 2021

[Inferring UK COVID-19 fatal infection trajectories from daily mortality data: Were infections already in decline before the UK lockdowns?](#)

Simon Wood
Biometrics
March 30, 2021

[Was \$R < 1\$ before the English lockdowns? On modelling mechanistic detail, causality and inference about Covid-19](#)

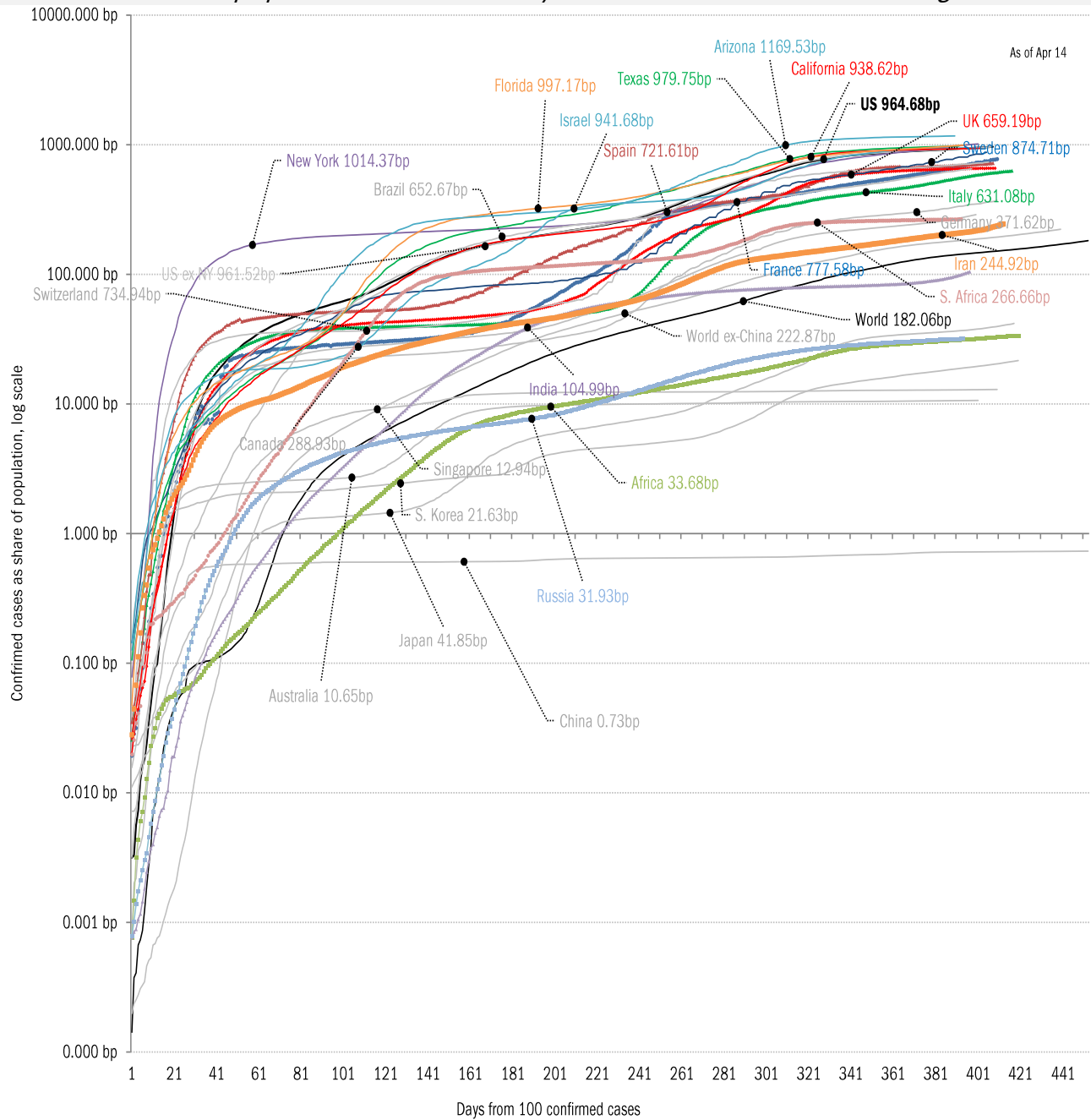
S. N. Wood et al.
medRxiv
March 20, 2021

Meme of the day



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

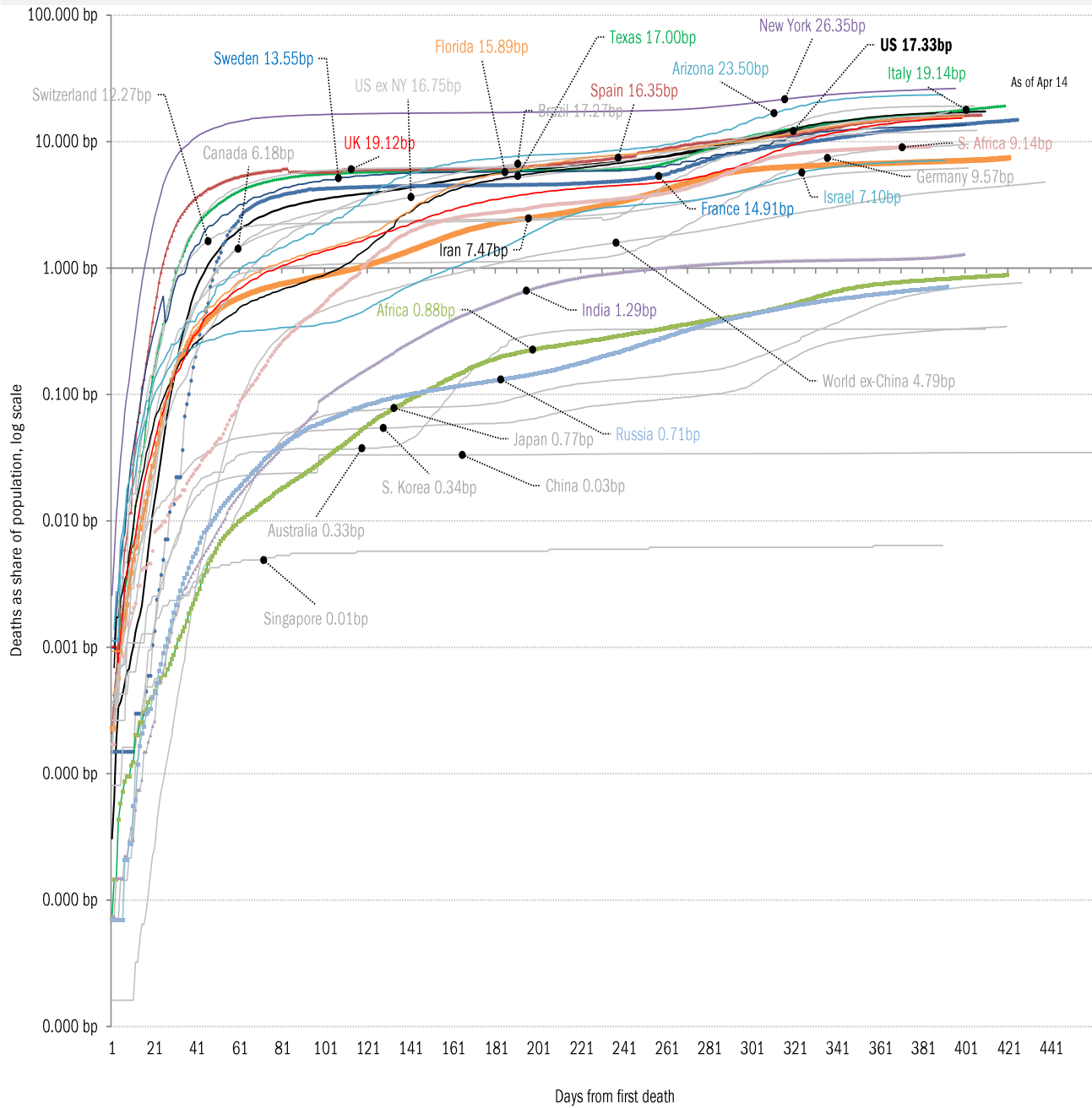
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality



Source: [Johns Hopkins](#), 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

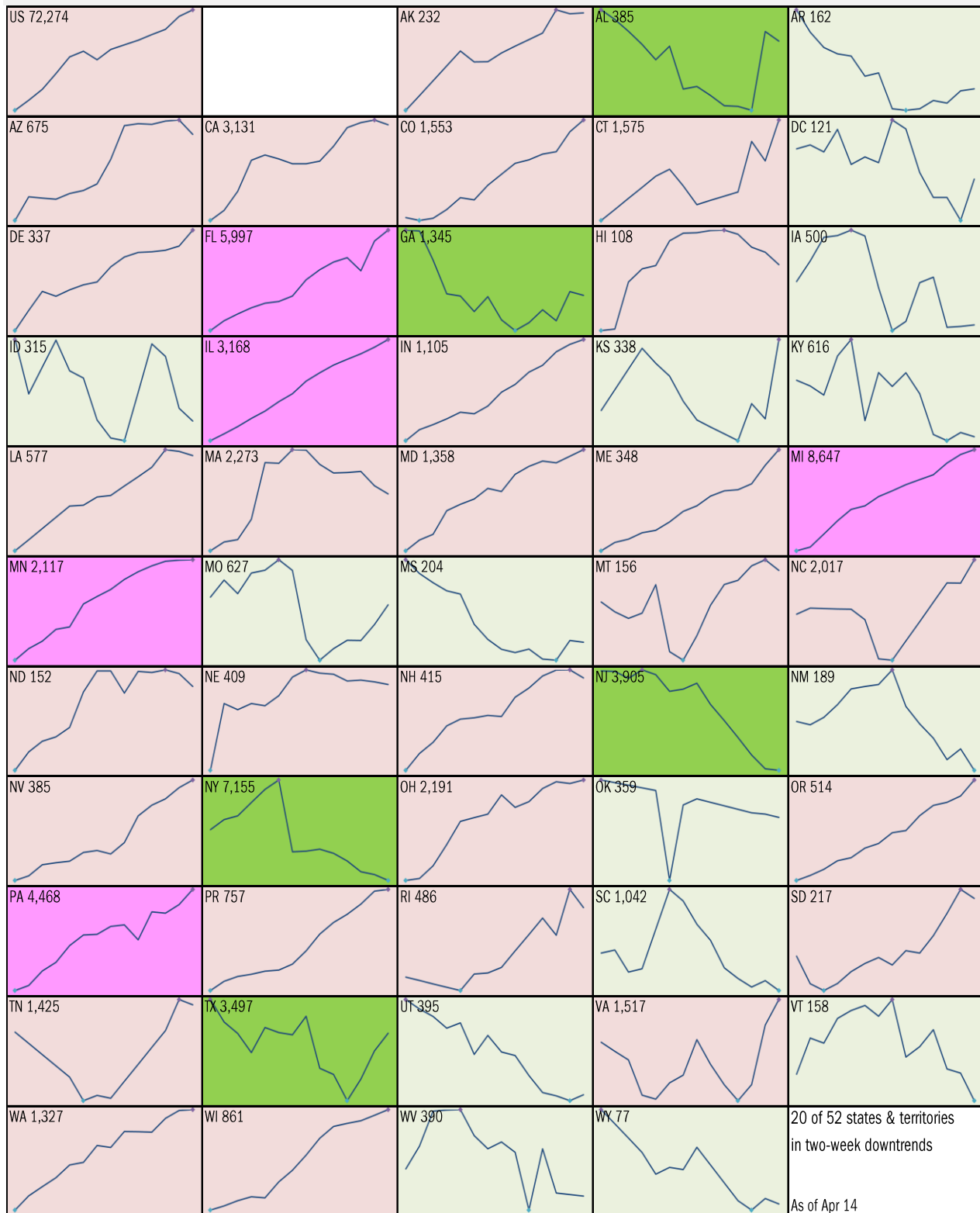


Source: [Johns Hopkins](#), TrendMacro calculations

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

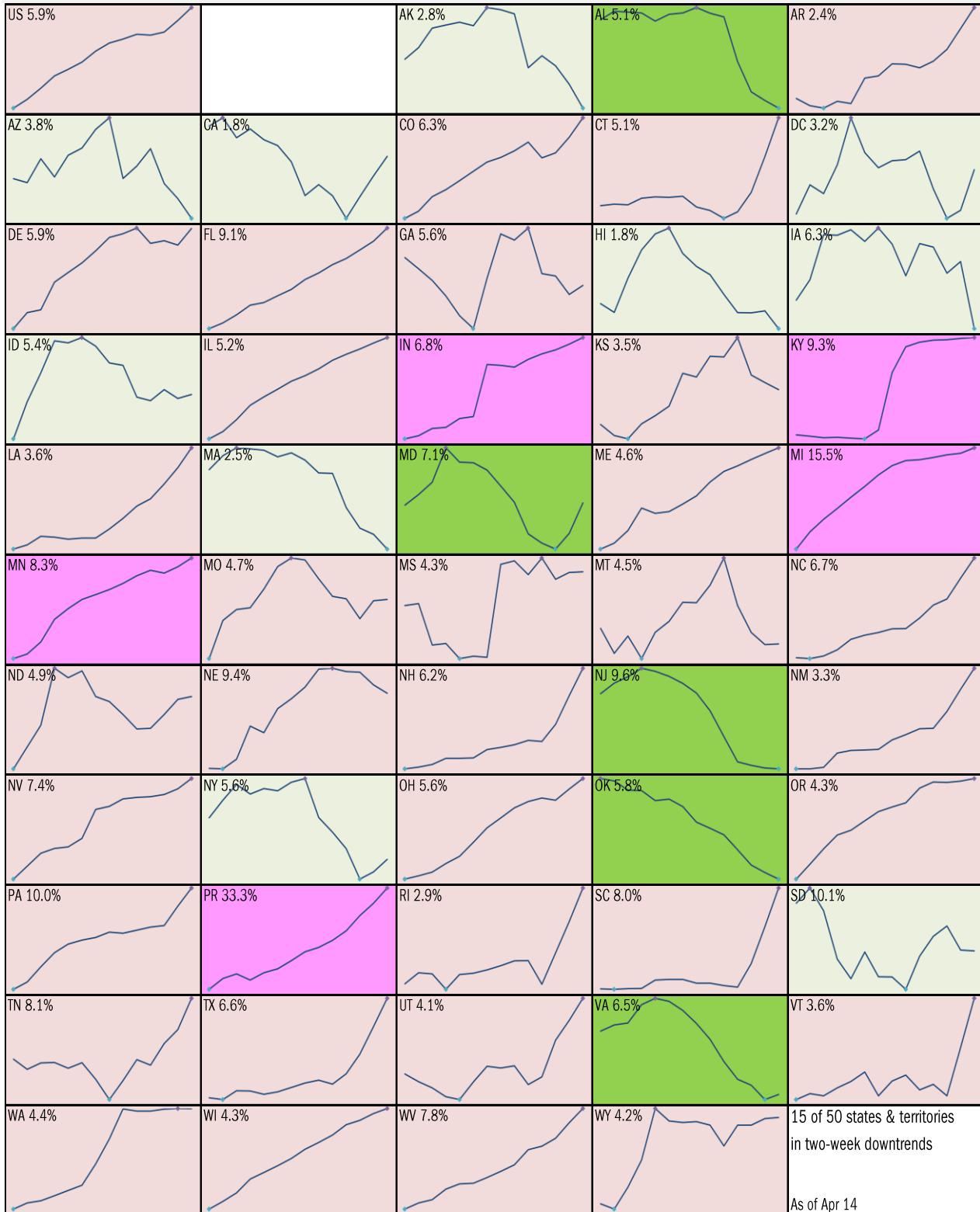


Source: [Johns Hopkins](#), TrendMacro calculations

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

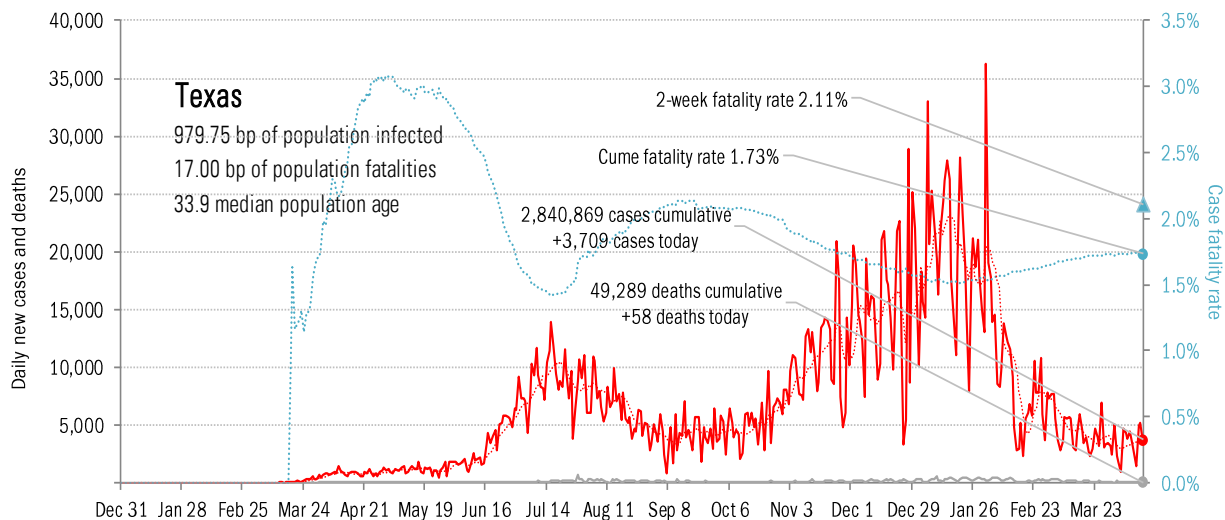
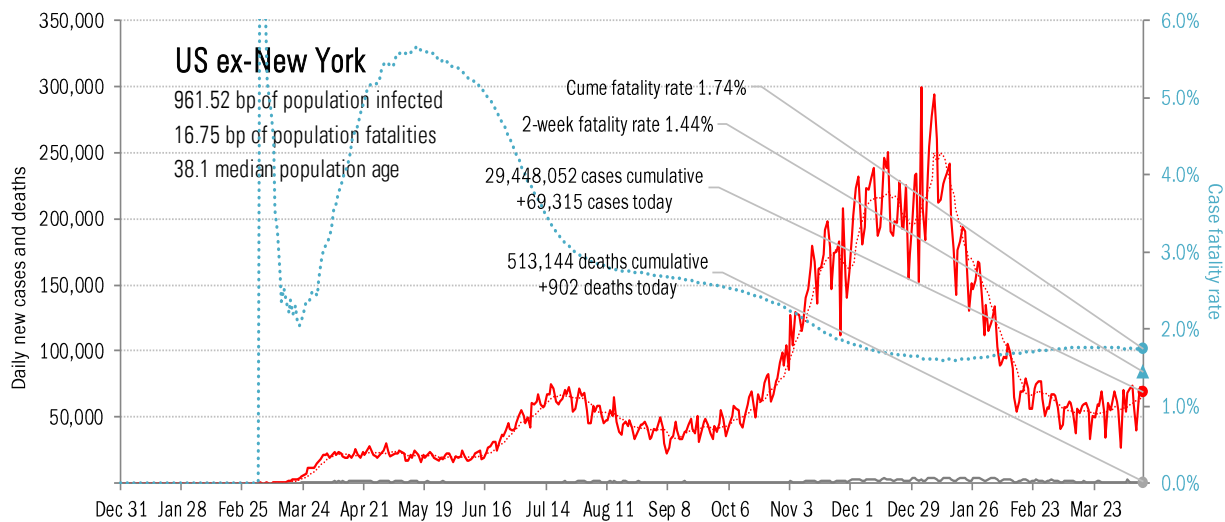
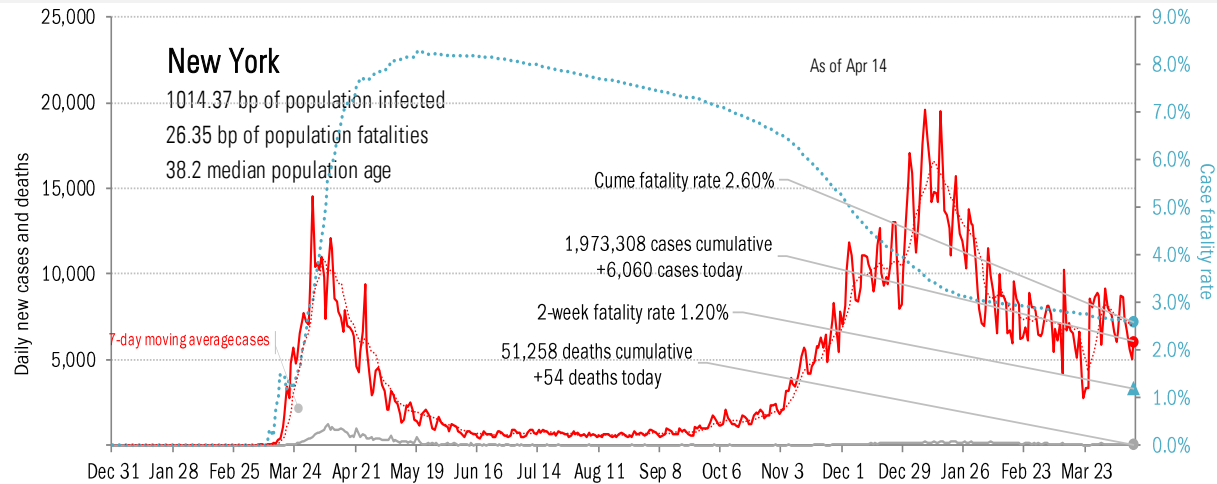
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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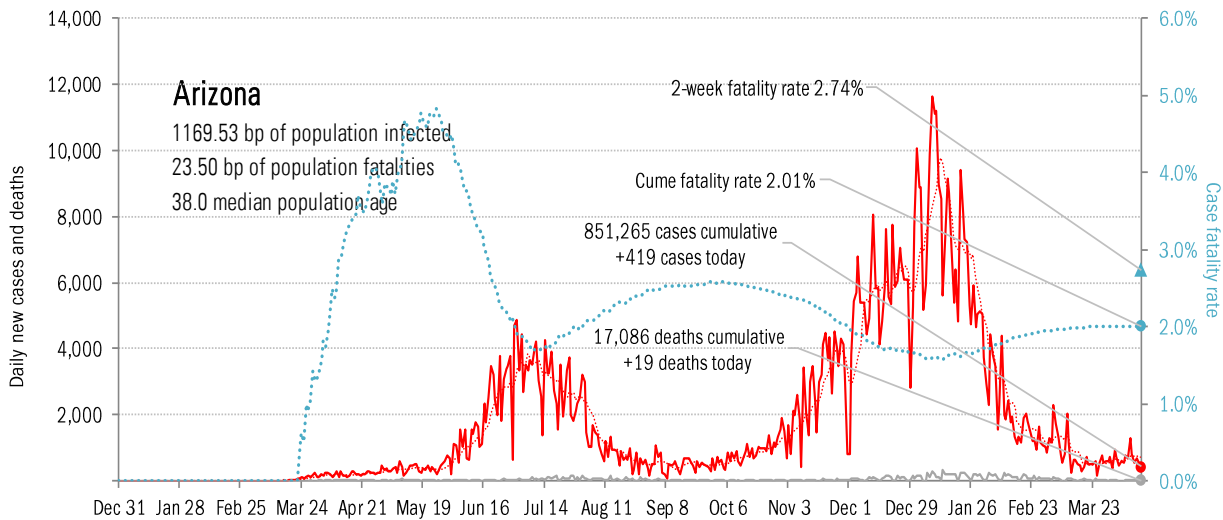
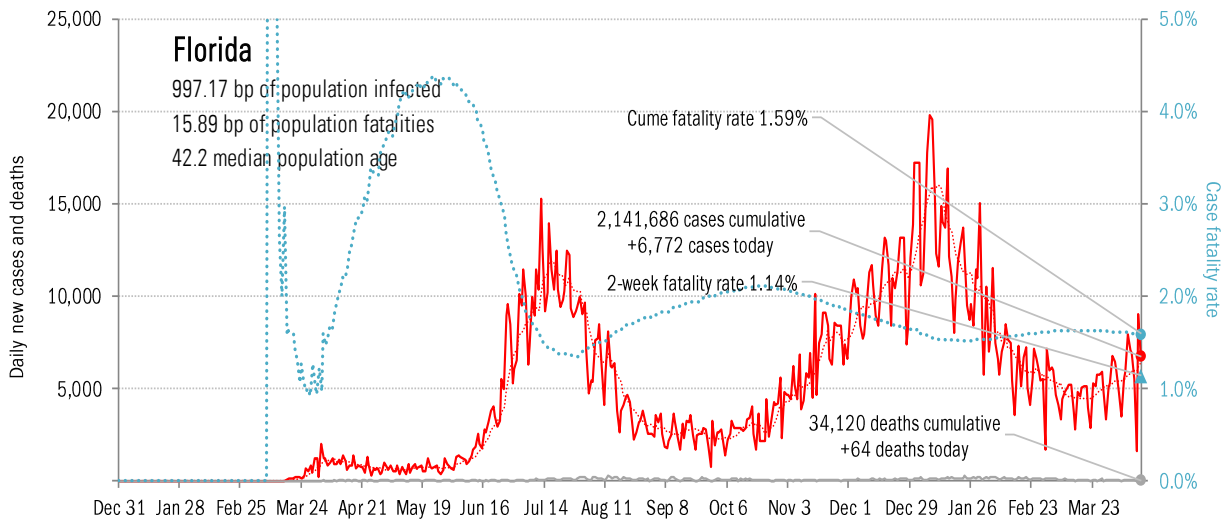
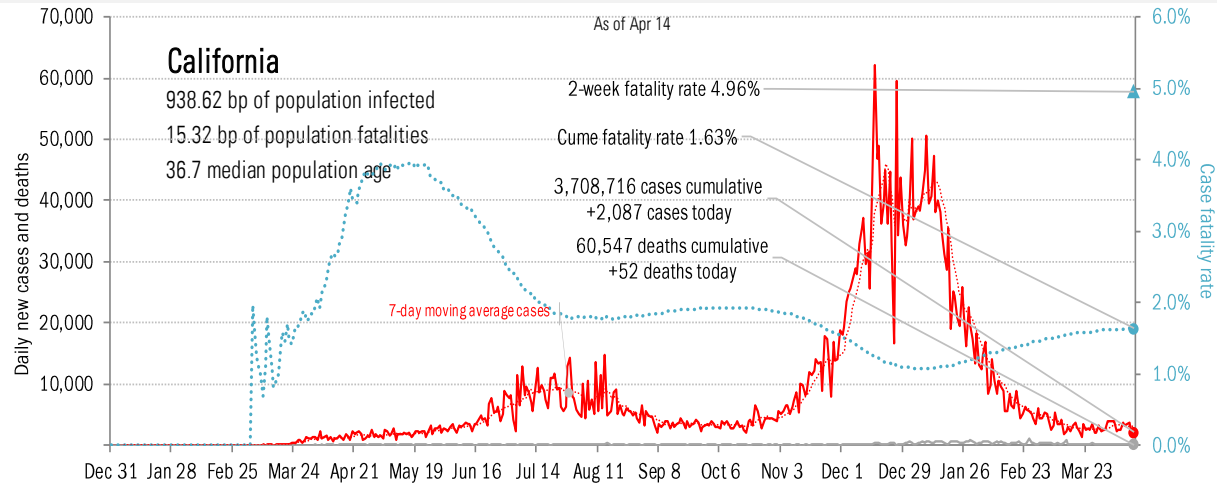
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



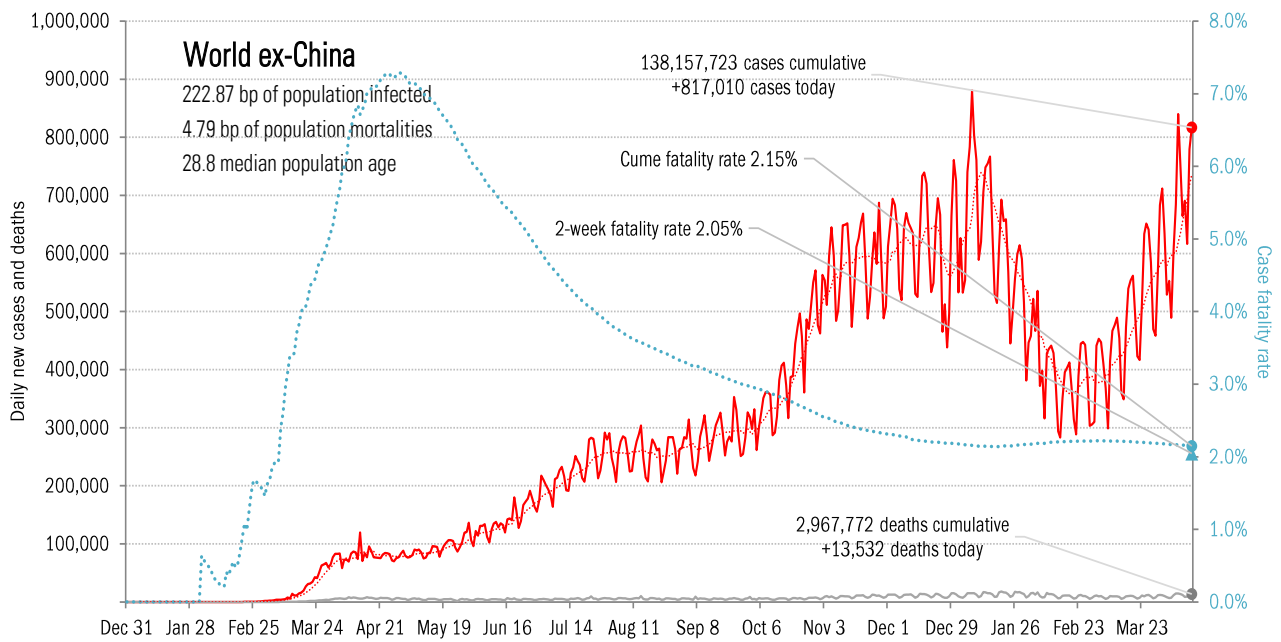
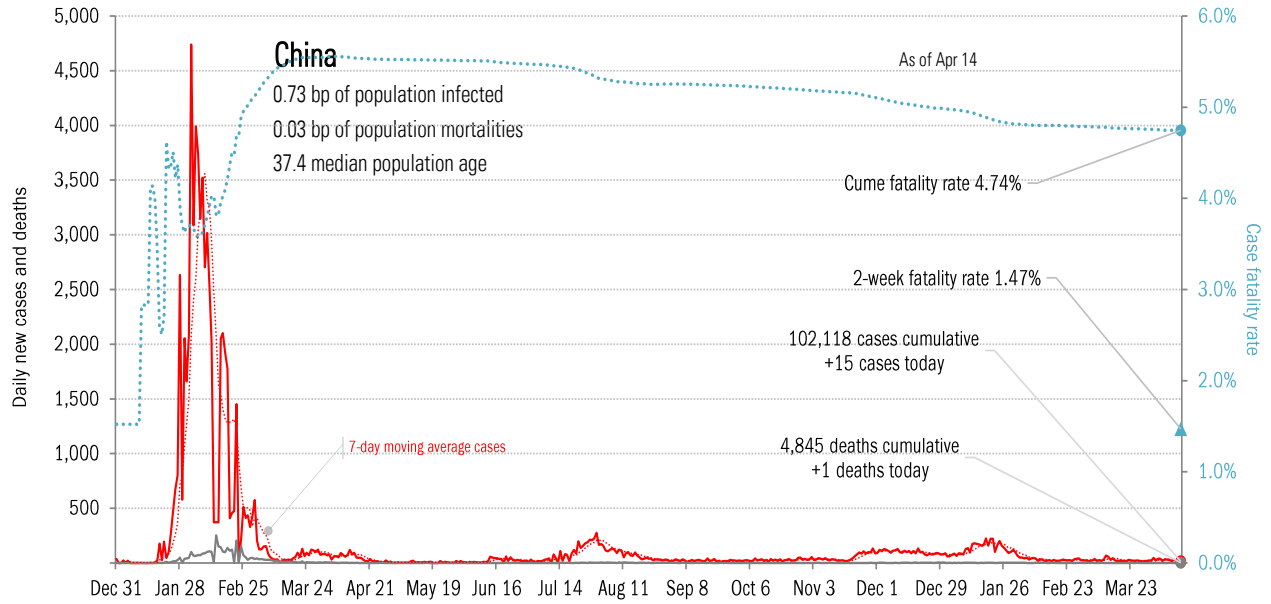
Source: [Johns Hopkins](#), TrendMacro calculations

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



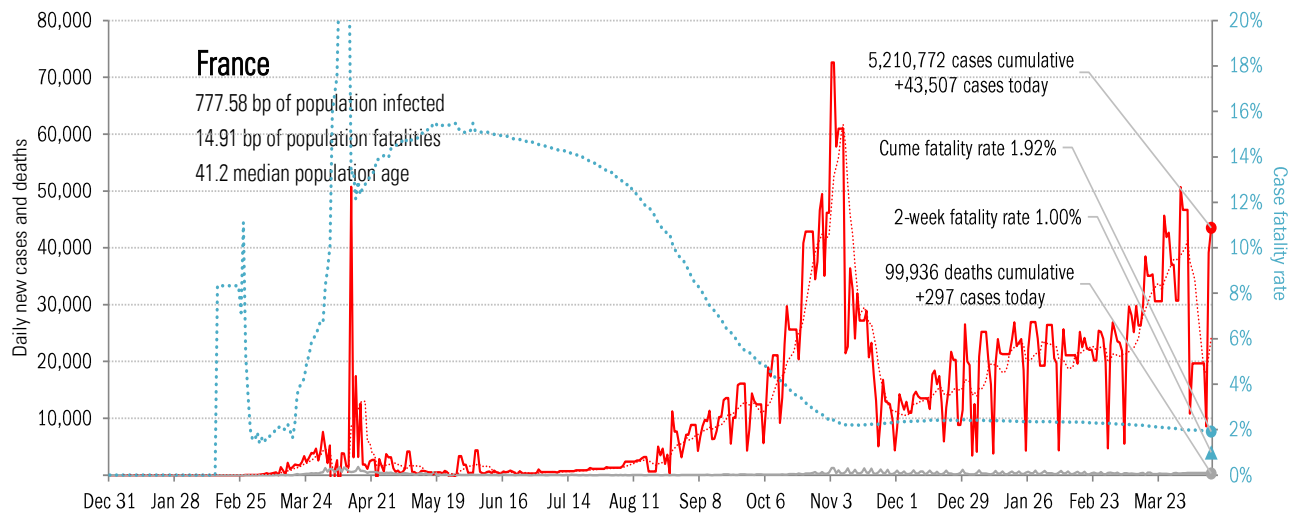
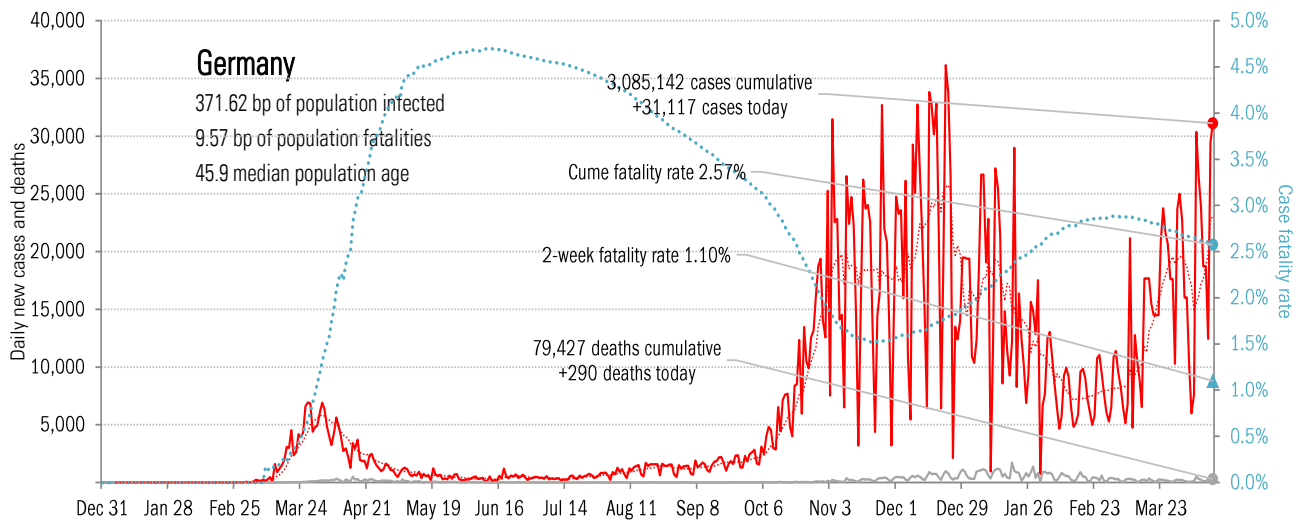
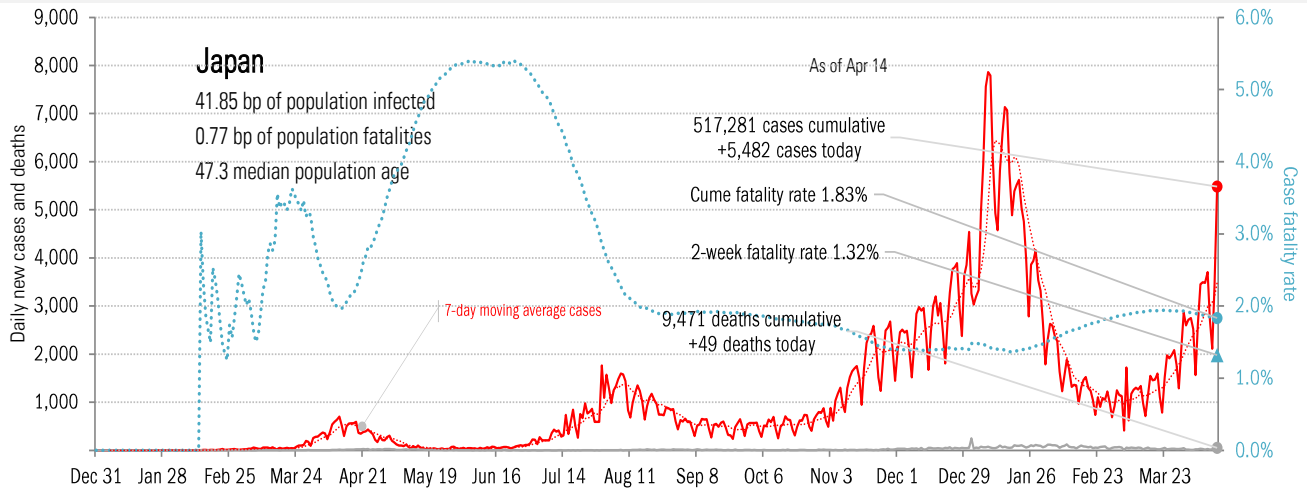
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



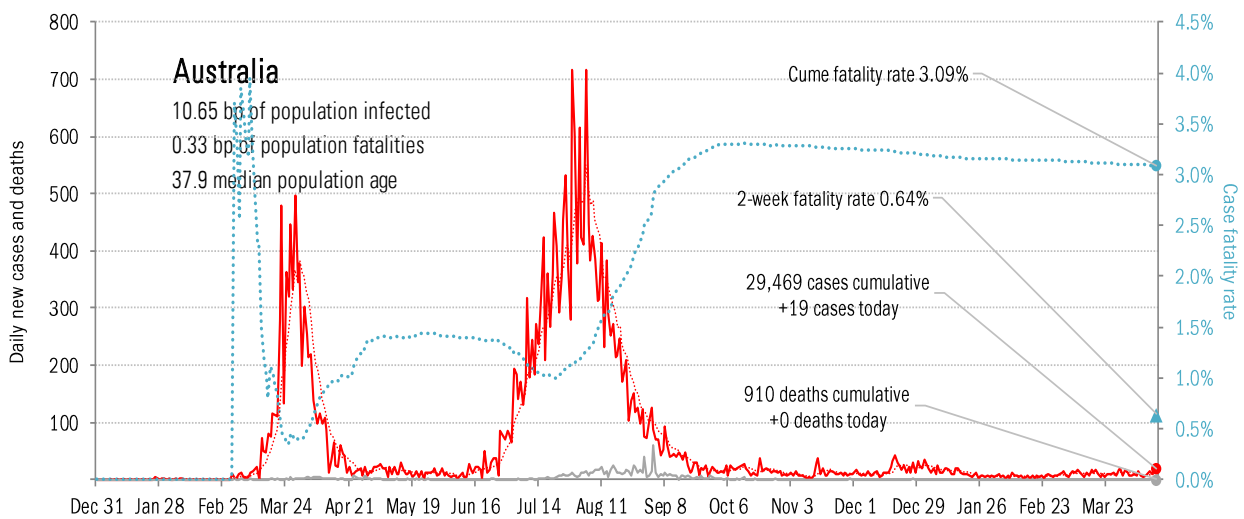
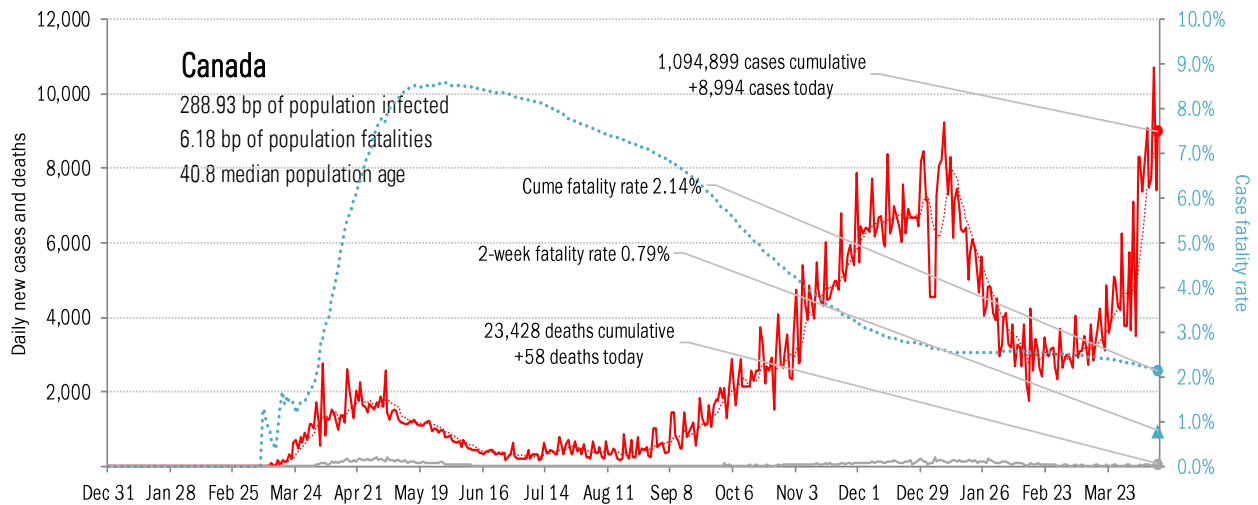
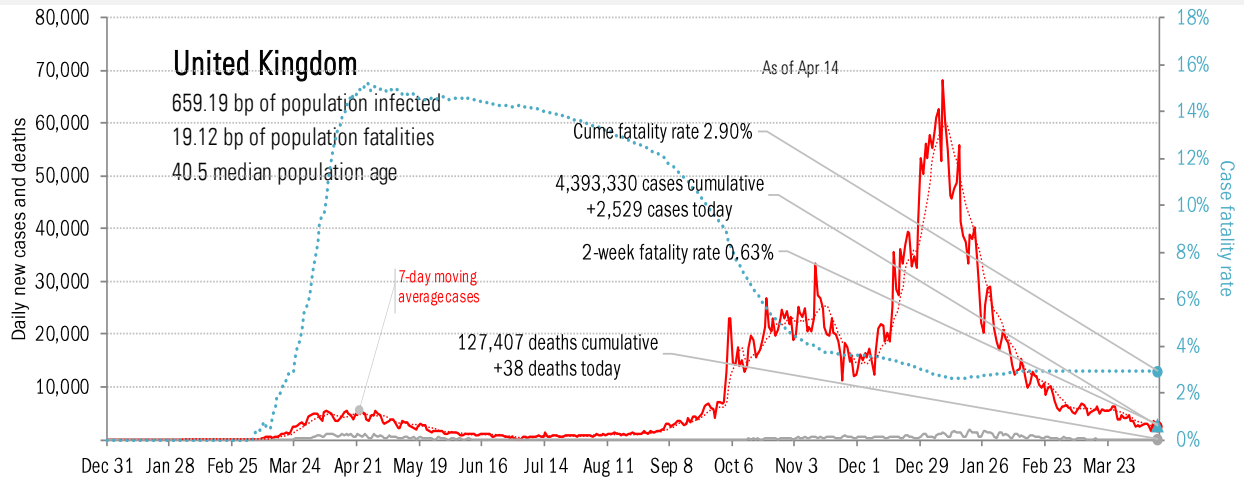
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



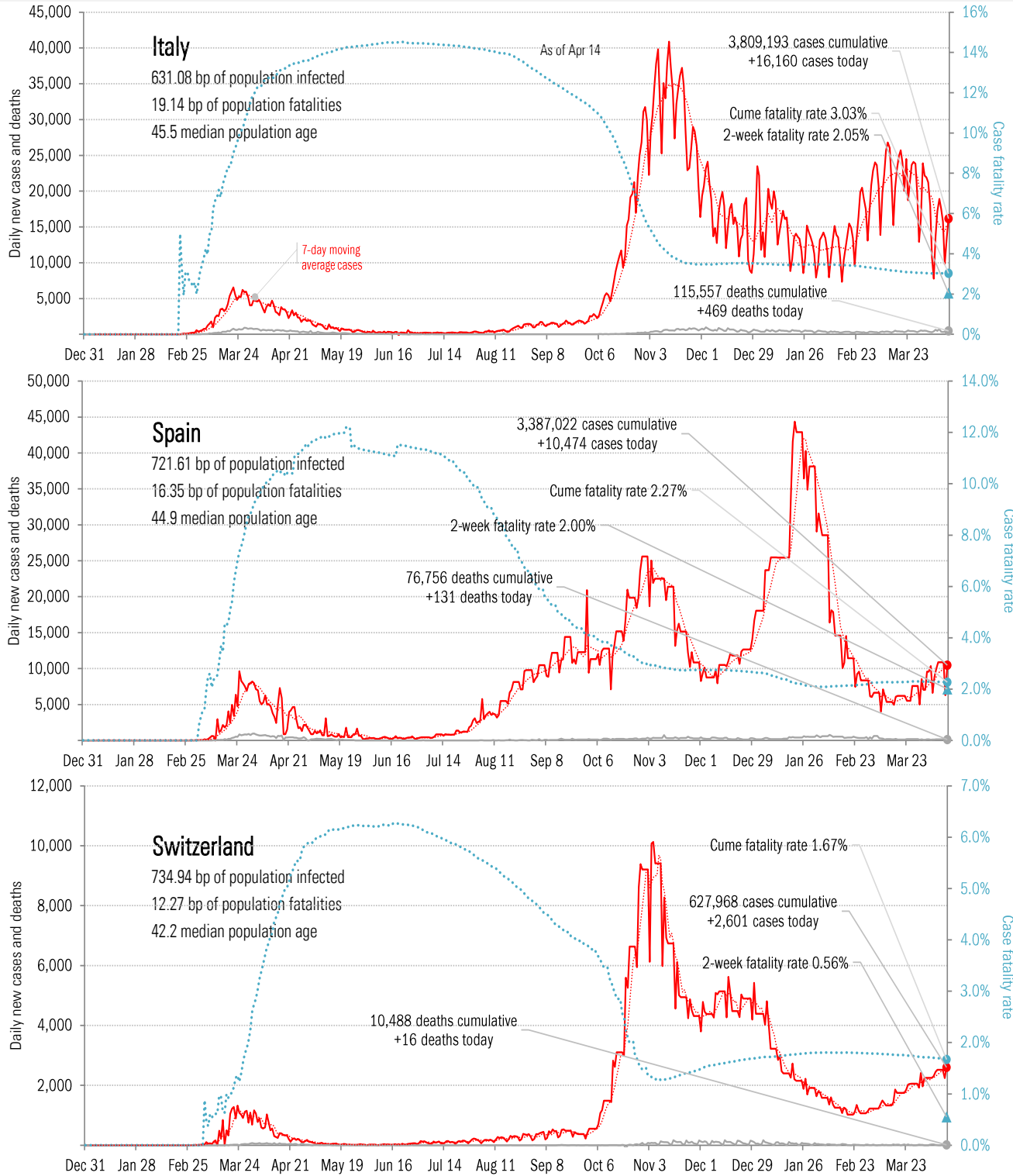
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



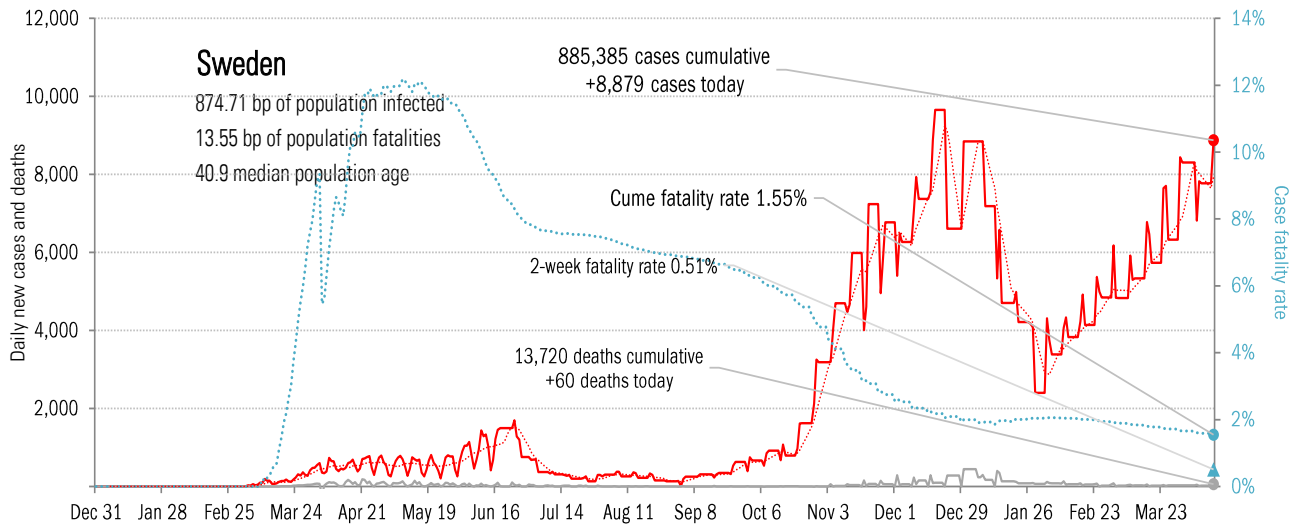
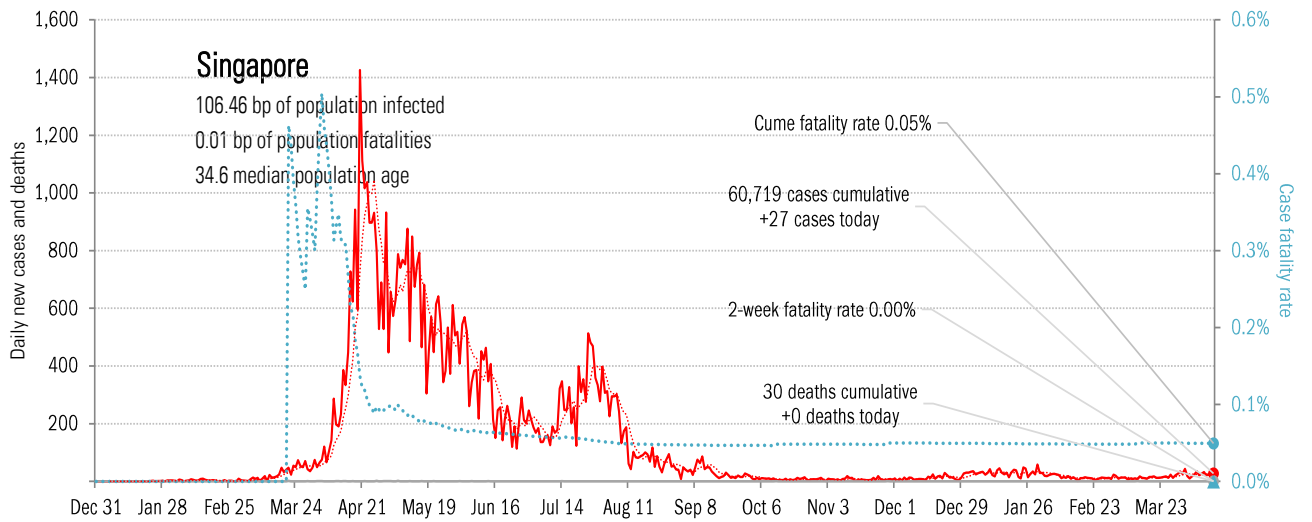
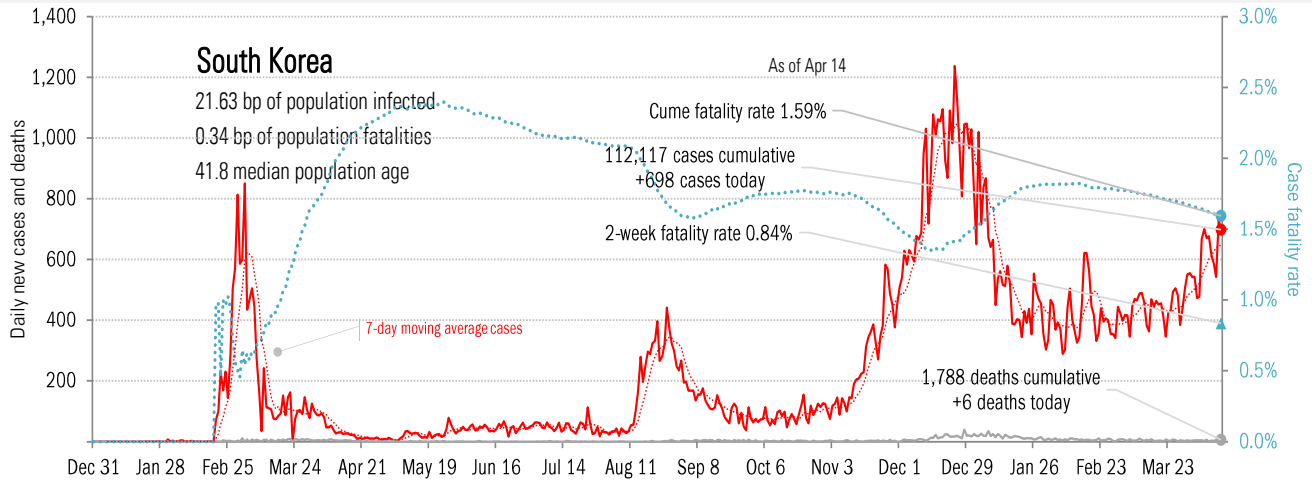
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



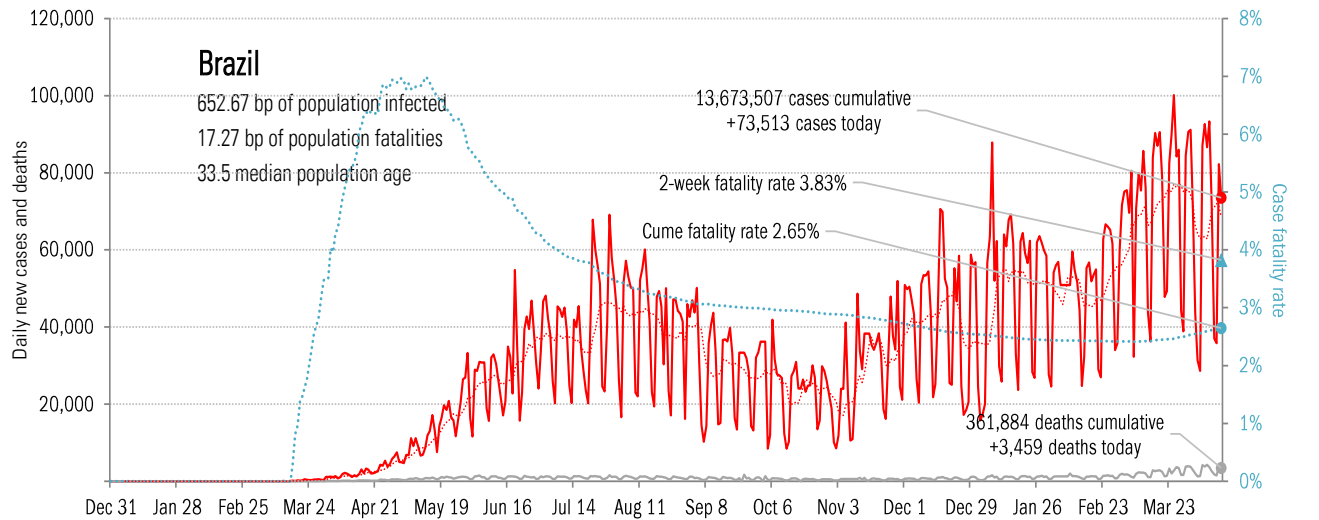
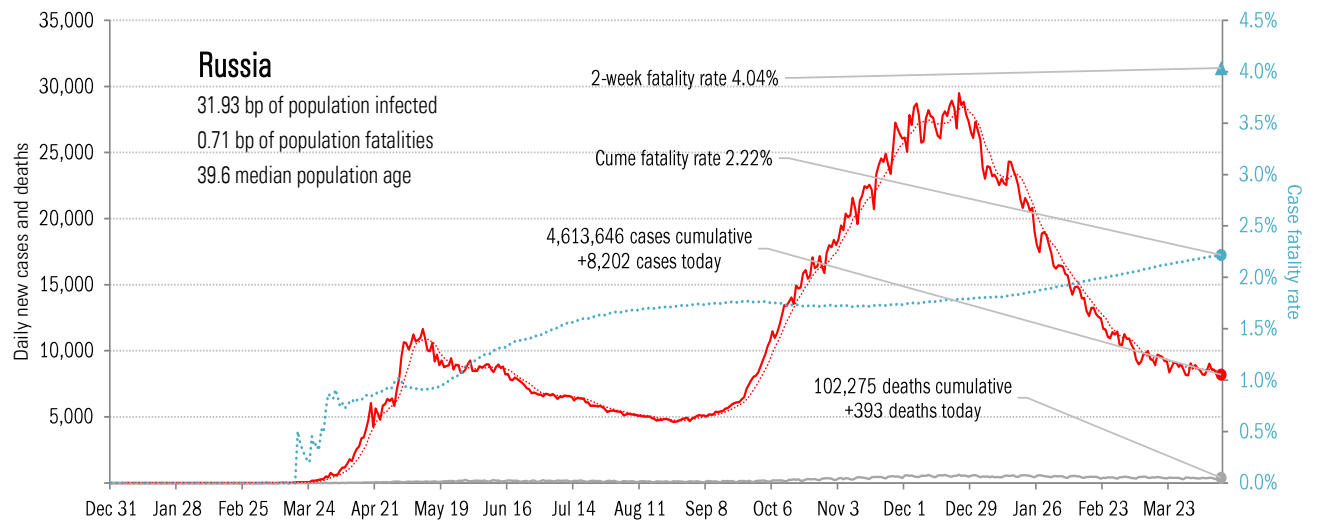
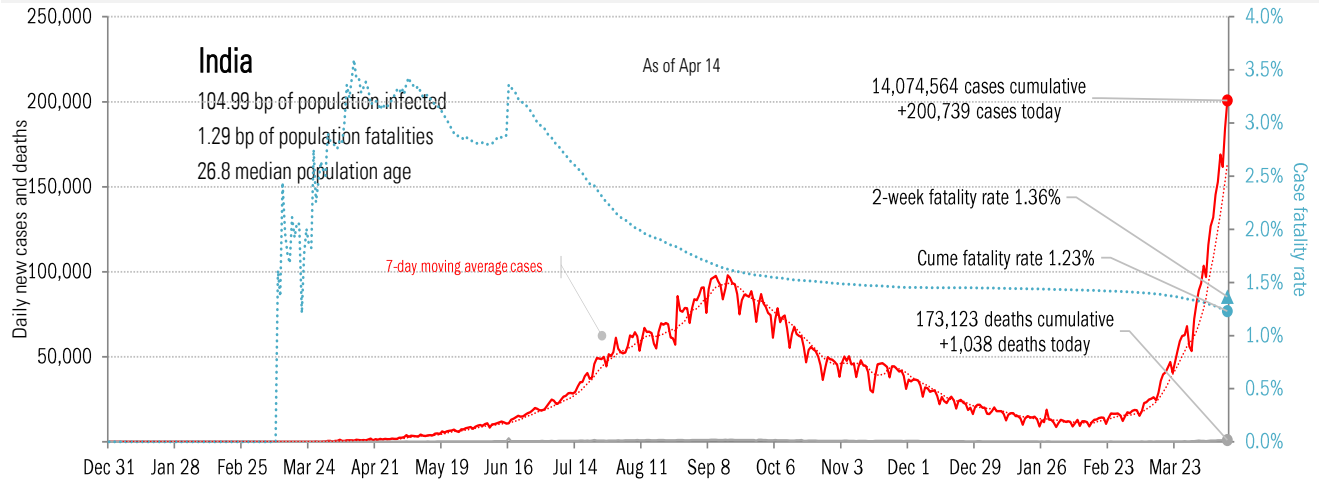
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



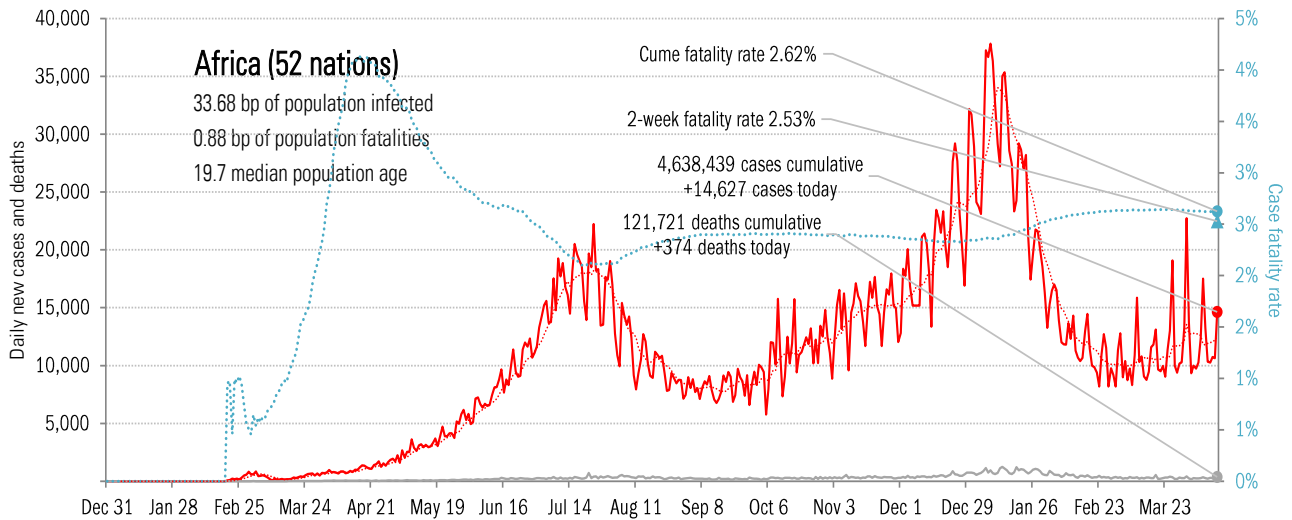
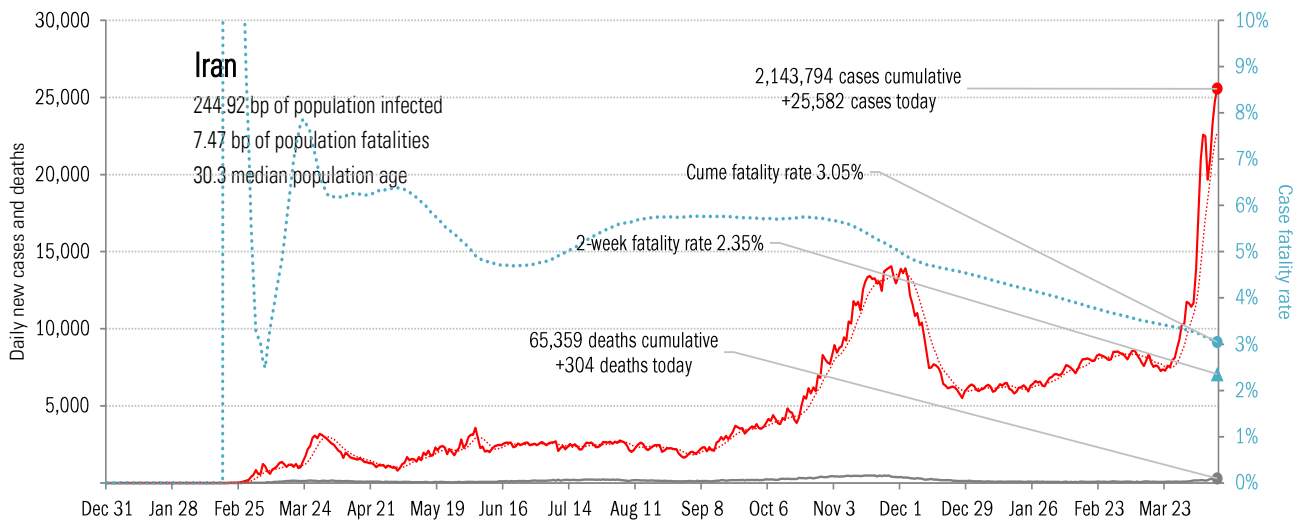
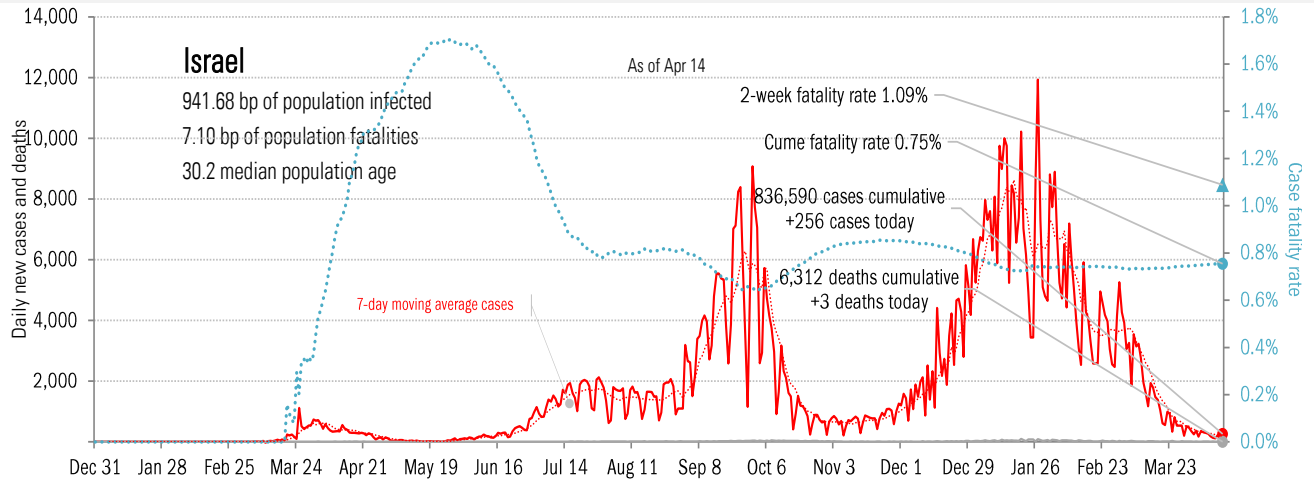
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



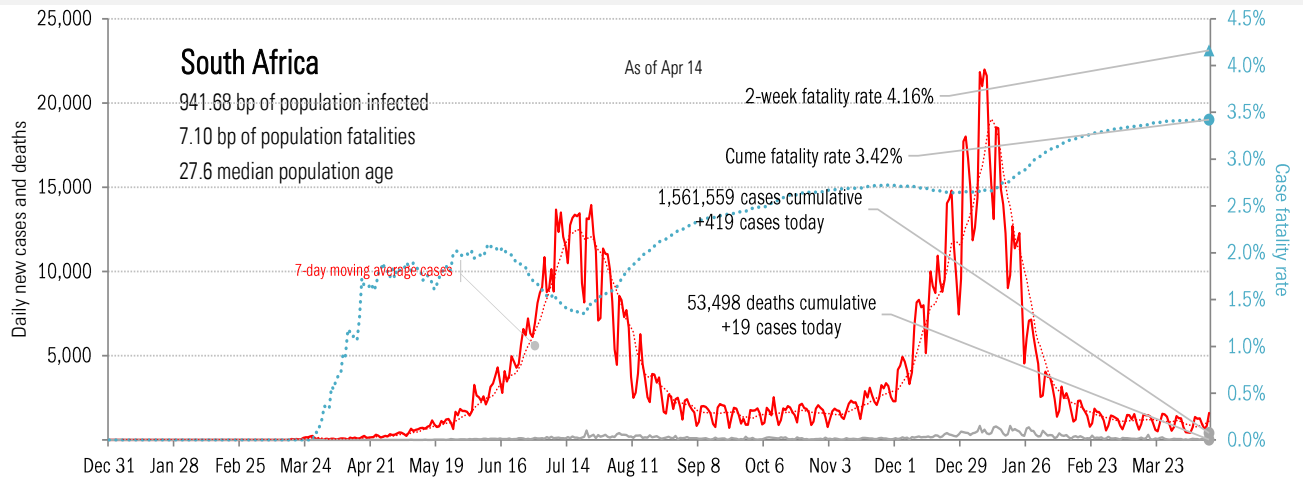
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations