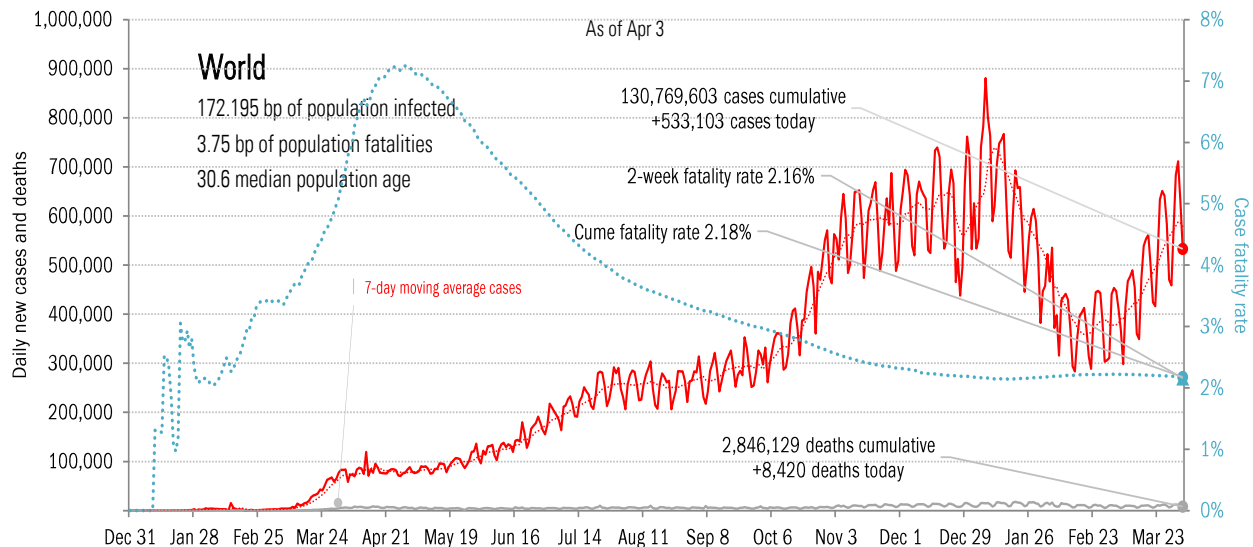
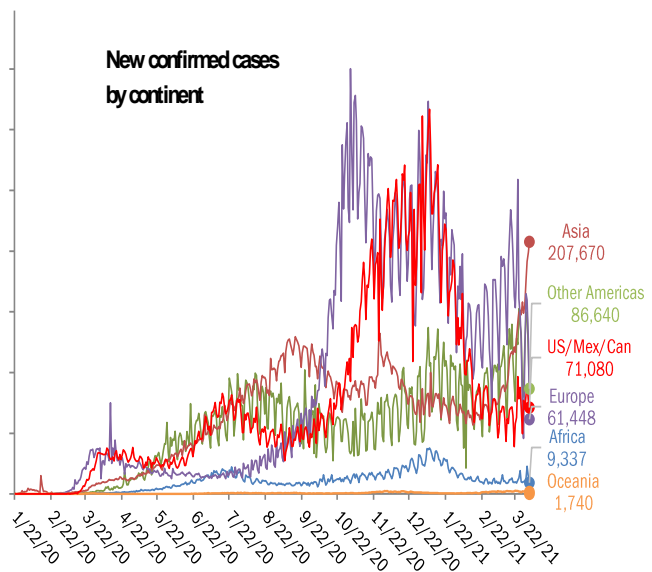


Data Insights: Covid-2019 Monitor

Sunday, April 4, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+93,249	Brazil	+1,987
United States	+62,154	United States	+676
Turkey	+44,756	Poland	+572
Brazil	+43,515	India	+513
Poland	+28,073	Ukraine	+403
Italy	+21,247	Russia	+377
Ukraine	+20,456	Italy	+376
Philippines	+12,546	Peru	+294
Iran	+11,420	Hungary	+242
Argentina	+10,384	Turkey	+186
+347,800		+5,626	
World	+533,103	World	+8,420
Top ten	65%	Top ten	67%



Source: [Johns Hopkins](#), 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

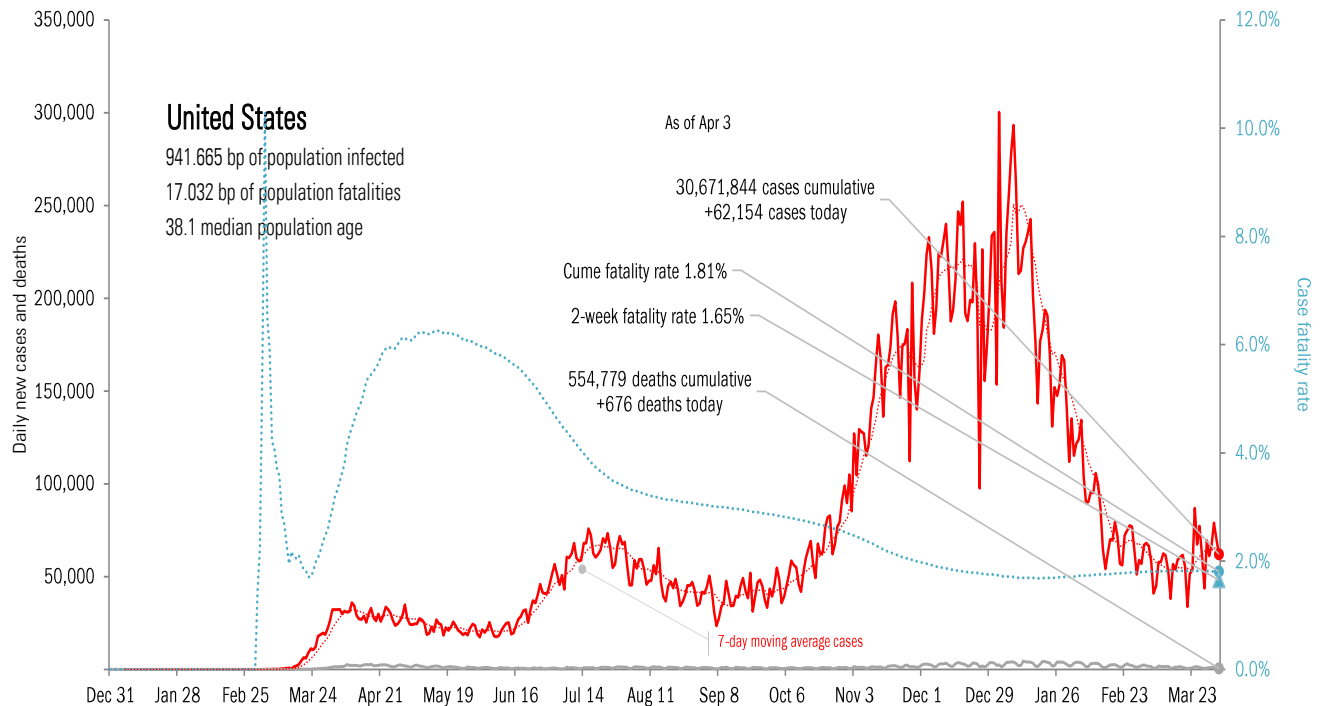
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
MI	+9,292		NY	+93		FR	+199		CA	3,675,272		CA	59,614		TX	227,856		R	90%	MI	22%
NY	+7,755		TX	+77		MI	+167		TX	2,801,218		NY	50,551		CA	223,829		MD	83%	MD	21%
FL	+6,017		IA	+68		PA	+66		FL	2,077,032		TX	48,676		FL	154,044		MA	83%	NY	19%
PA	+5,133		FL	+66		IL	+50		NY	1,898,101		FL	33,652		NY	117,289		CT	79%	PA	14%
NJ	+4,445		MI	+65		IN	+29		IL	1,254,091		PA	25,166		GA	95,447		PA	79%	MN	13%
IL	+2,836		GA	+34		MN	+24		GA	1,063,680		NJ	24,632		CH	76,322		MI	78%	WV	13%
MA	+2,453		MA	+32		FL	+20		PA	1,040,692		IL	23,635		PA	75,283		MO	78%	TX	13%
CH	+2,293		PA	+31		SC	+20		CH	1,024,011		GA	19,210		IL	69,309		FL	78%	DC	13%
MN	+2,064		AL	+30		NC	+19		NJ	923,396		CH	18,643		KY	68,680		WV	77%	ID	13%
TX	+1,843		MD	+23		WA	+19		NC	916,159		MA	17,281		AZ	58,624		GA	76%	NJ	13%
+44,131			+519			+613			16,673,652			321,060			1,166,683						
All states	+62,154		+676			+447			All states	30,671,844		554,779			2,077,072			All states	70%		67%
Top ten	71%		77%			137%			Top ten	54%		58%			56%			Median	70%		9%

Some states not reporting

Five most improved US states

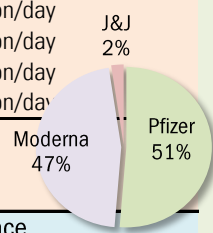
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-3,761	CA	-203	NY	-162	NY	+200 bp
CT	-1,488	CH	-34	CH	-133	WV	+117 bp
NE	-1,012	TX	-27	NJ	-73	ND	+105 bp
TX	-522	FL	-26	VA	-53	ME	+91 bp
FL	-473	AL	-24	GA	-39	R	+82 bp



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

Rolling out the vaccines in the US and the world

US overall	Over last day	Immunity	Full	Partial
217.14 million doses distributed	+3.28 million/day	US	17.9%	31.2%
168.27 million doses administered	+4.18 million/day	UK	7.7%	46.3%
107.81 million persons partially immunized	+2.45 million/day	France	4.5%	13.4%
62.36 million persons fully immunized	+1.92 million/day	Spain	6.1%	12.2%
7.74 million shots long-term care residents/staff	+0.00 million/day	Germany	5.2%	12.0%
77.5% of distributed doses administered		Italy	5.7%	12.5%
32.3% of US pop partial	18.7% full immunity	Australia	0.7%	0.6%
100% of LTC partial	63.5% full immunity	Israel	55.6%	60.7%
		Canada	1.9%	14.7%
		Japan	0.1%	0.7%
		Africa	0.3%	0.6%
		India	0.7%	4.8%
		Brazil	2.2%	7.7%



At today's dosing pace,
every American >18 immune in
67 days
by Jun 8, 2021

US achieves adult herd immunity* in
32 days
by May 5, 2021

Global data differs due to sources
China NA

State	
Doses distributed as % population	Best
Partial immunity as % population	Middle
Full immunity as % population	Worst

AK
87.0%
34.8%
23.3%

ME
68.1%
36.9%
21.9%

WI
59.6%
34.2%
20.4%

VT
73.3%
36.4%
21.3%

NH
62.0%
40.1%
19.2%

WA	ID	MT	ND	MN	IL	MI	NY	MA		
63.5%	57.5%	67.6%	64.3%	59.7%	63.3%	61.1%	65.4%	66.8%		
31.6%	27.3%	32.4%	34.3%	33.5%	33.2%	30.5%	33.4%	36.6%		
19.5%	17.6%	20.8%	22.6%	20.6%	17.7%	18.6%	20.1%	20.6%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
60.5%	57.5%	70.1%	75.5%	60.8%	54.1%	63.4%	63.9%	62.1%	72.3%	64.6%
30.1%	29.2%	27.9%	37.0%	33.5%	27.0%	31.1%	34.2%	35.7%	37.6%	34.5%
18.1%	17.2%	18.9%	24.1%	21.3%	17.9%	18.3%	18.2%	20.8%	22.3%	23.0%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
64.1%	54.1%	61.3%	65.8%	61.4%	61.1%	69.6%	61.0%	63.0%	65.3%	
32.7%	28.0%	31.9%	32.5%	27.6%	32.7%	31.6%	33.7%	33.3%	33.5%	
17.3%	13.0%	18.8%	19.9%	16.7%	19.3%	21.0%	18.6%	19.1%	17.7%	
AZ	NM	KS	AR	TN	NC	SC	DC			
62.4%	72.2%	64.7%	63.2%	60.3%	62.6%	59.3%	76.9%			
31.3%	40.2%	32.9%	28.3%	26.8%	30.6%	28.4%	29.6%			
18.3%	25.5%	18.4%	15.9%	15.1%	17.8%	15.9%	15.2%			
OK	LA	MS	AL	GA						
71.7%	62.5%	61.9%	59.0%	58.7%						
32.6%	27.5%	25.5%	25.2%	25.7%						
19.7%	17.9%	16.3%	14.4%	13.1%						
HI	TX	FL	PR							
71.5%	58.1%	64.6%	65.3%							
33.0%	27.5%	29.5%	23.8%							
20.5%	15.4%	17.2%	13.8%							

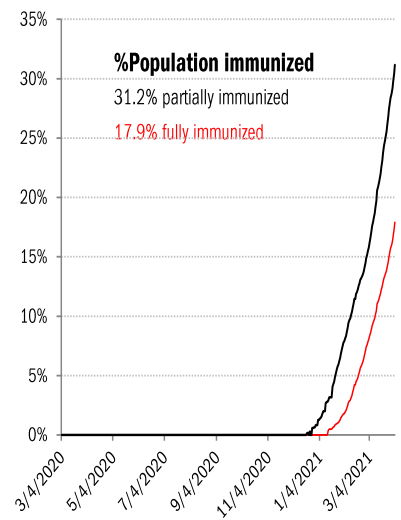
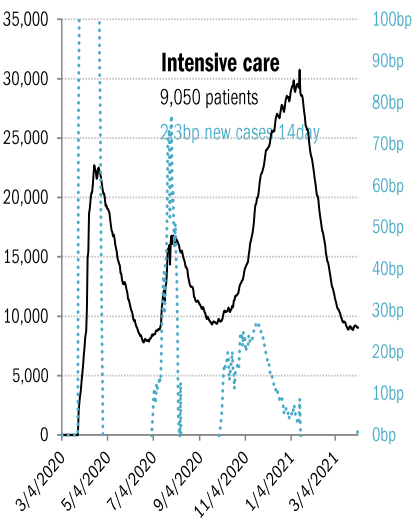
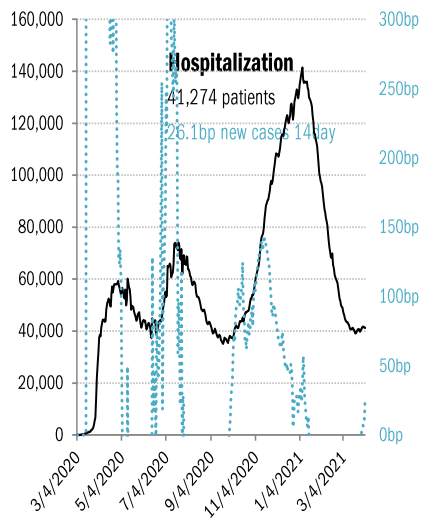
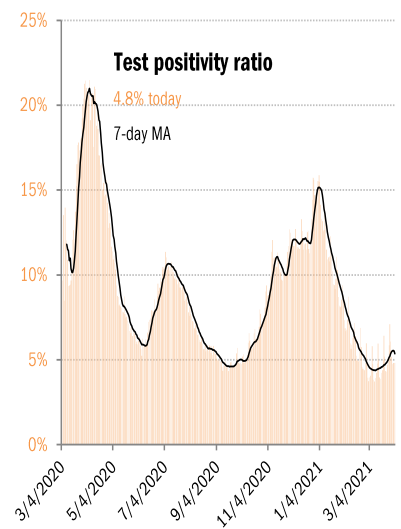
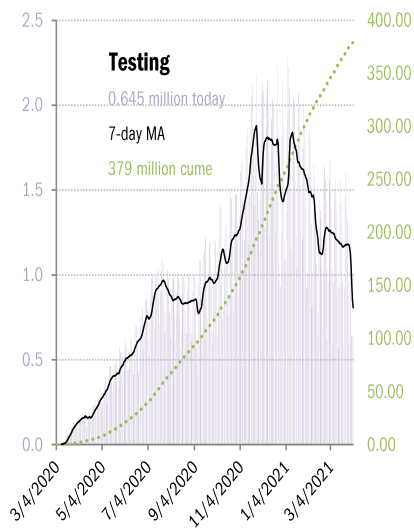
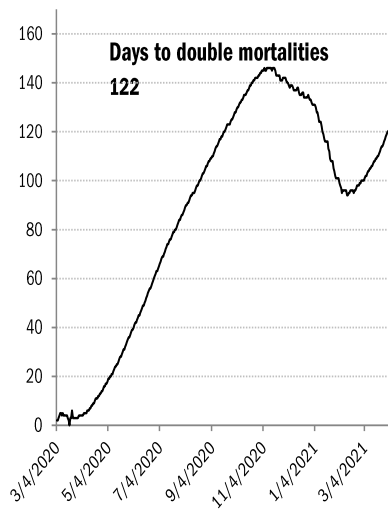
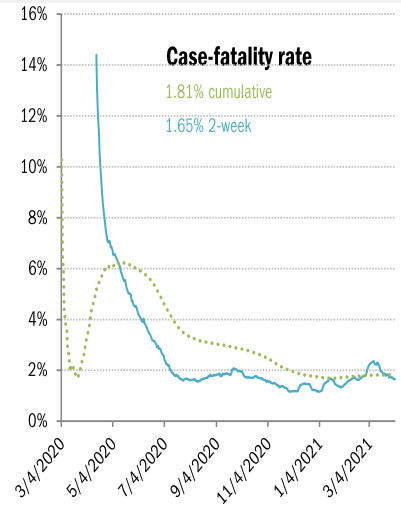
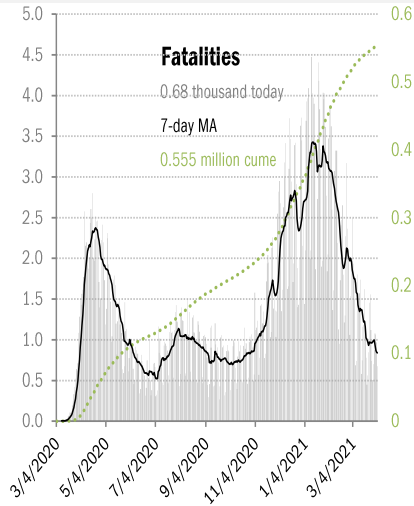
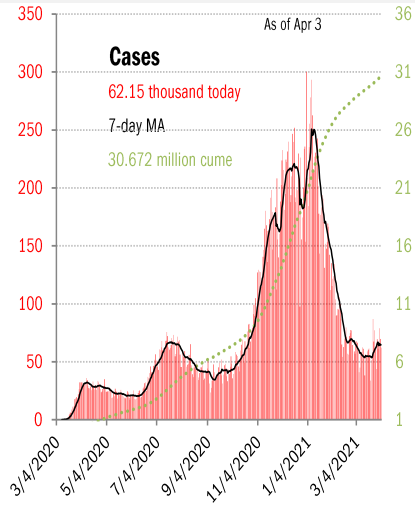
As of Apr 3

* Adult herd immunity is 60% of population over 18 years either fully vaccinated or prior tested positive, no overlap

Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

US deep-dive

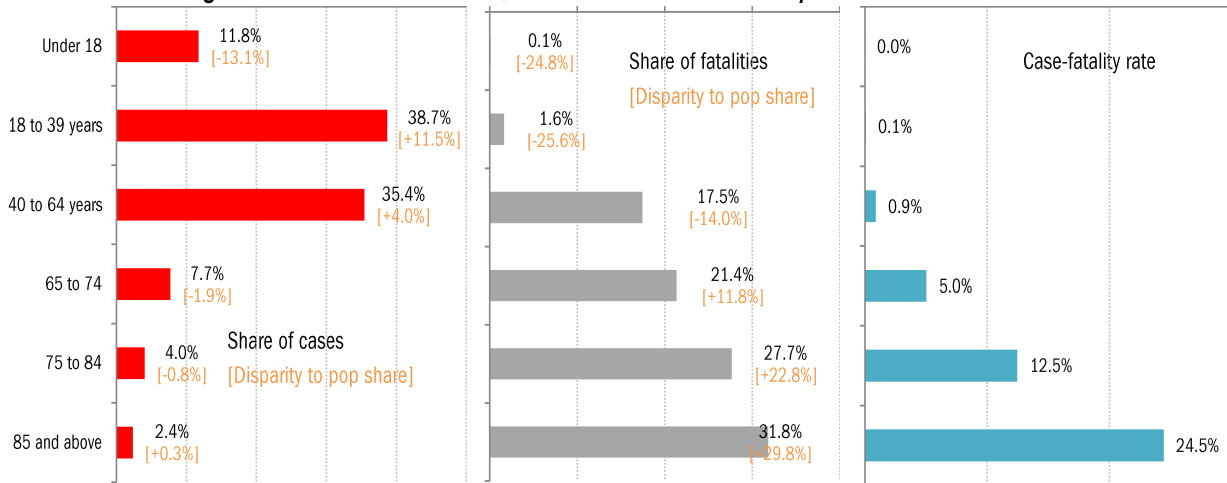
National and state-by-state data do not line up because of different sources



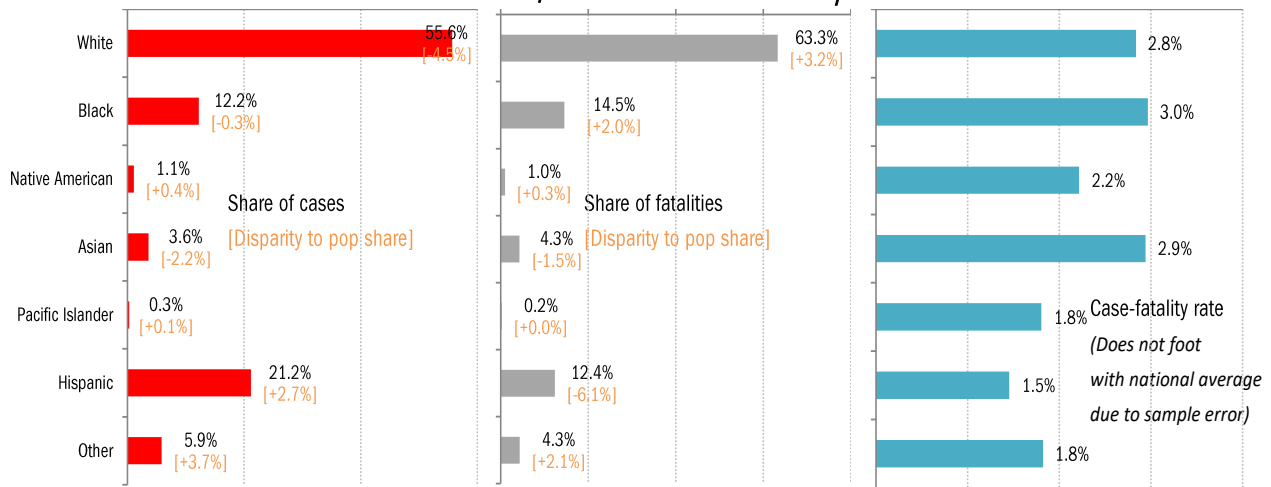
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

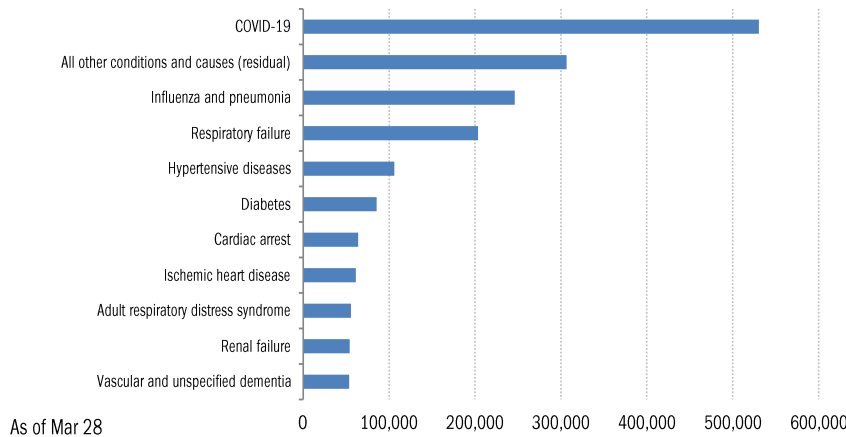


Racial distribution of US cases, fatalities and case-fatality rates Cumulative



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

[Returning to the Office Sparks Anxiety and Dread for Some](#)

Julie Creswell and Peter Eavis
New York Times
April 3, 2021

[Fed Up With Remote Learning, Governors Make a Push to Reopen Schools](#)

Kate Taylor
New York Times
April 3, 2021

[Broadway Reopened. For 36 Minutes. It's a Start.](#)

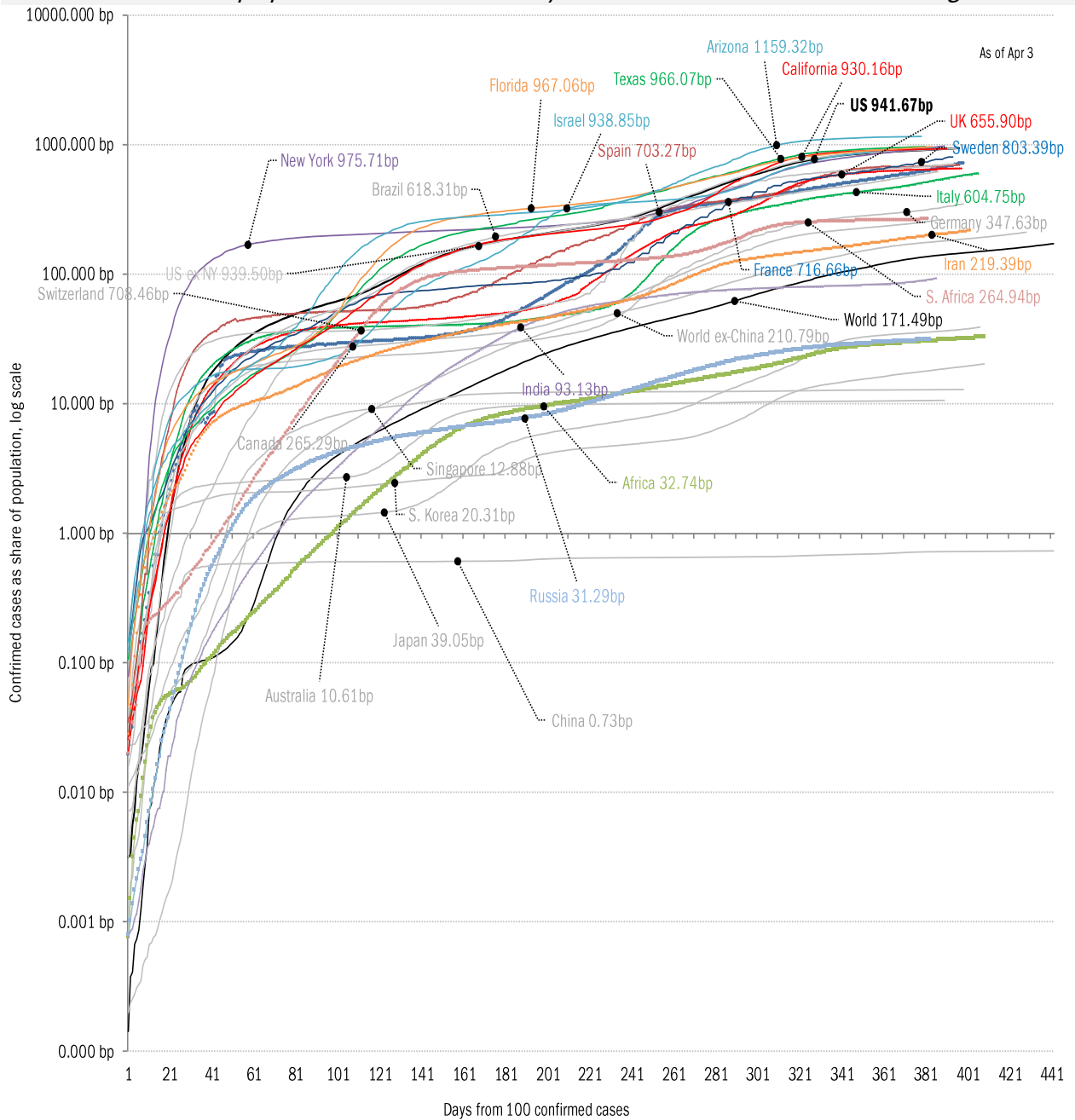
Michael Paulson
New York Times
April 3, 2021

Meme of day



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

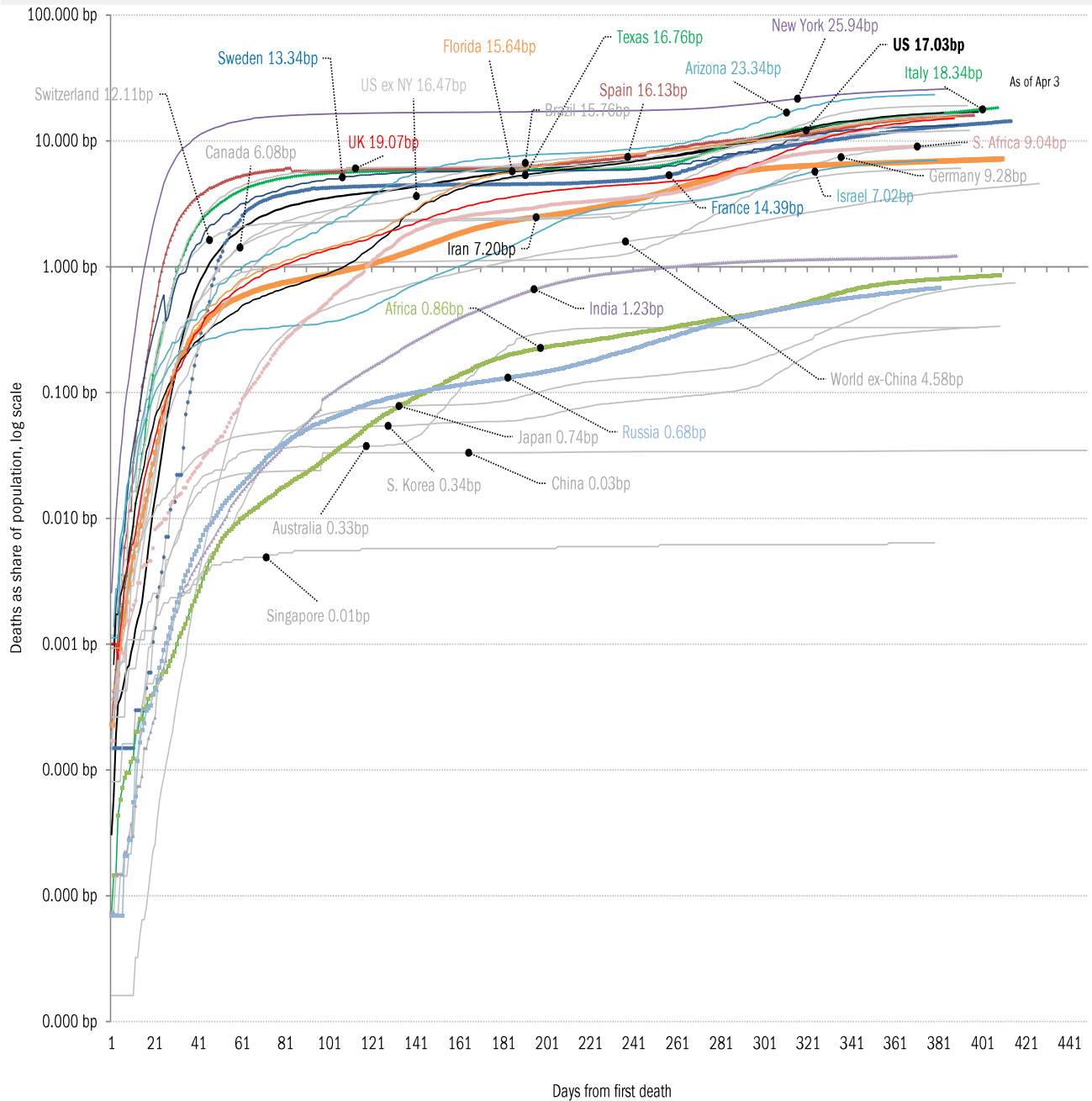
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [Johns Hopkins](#), 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

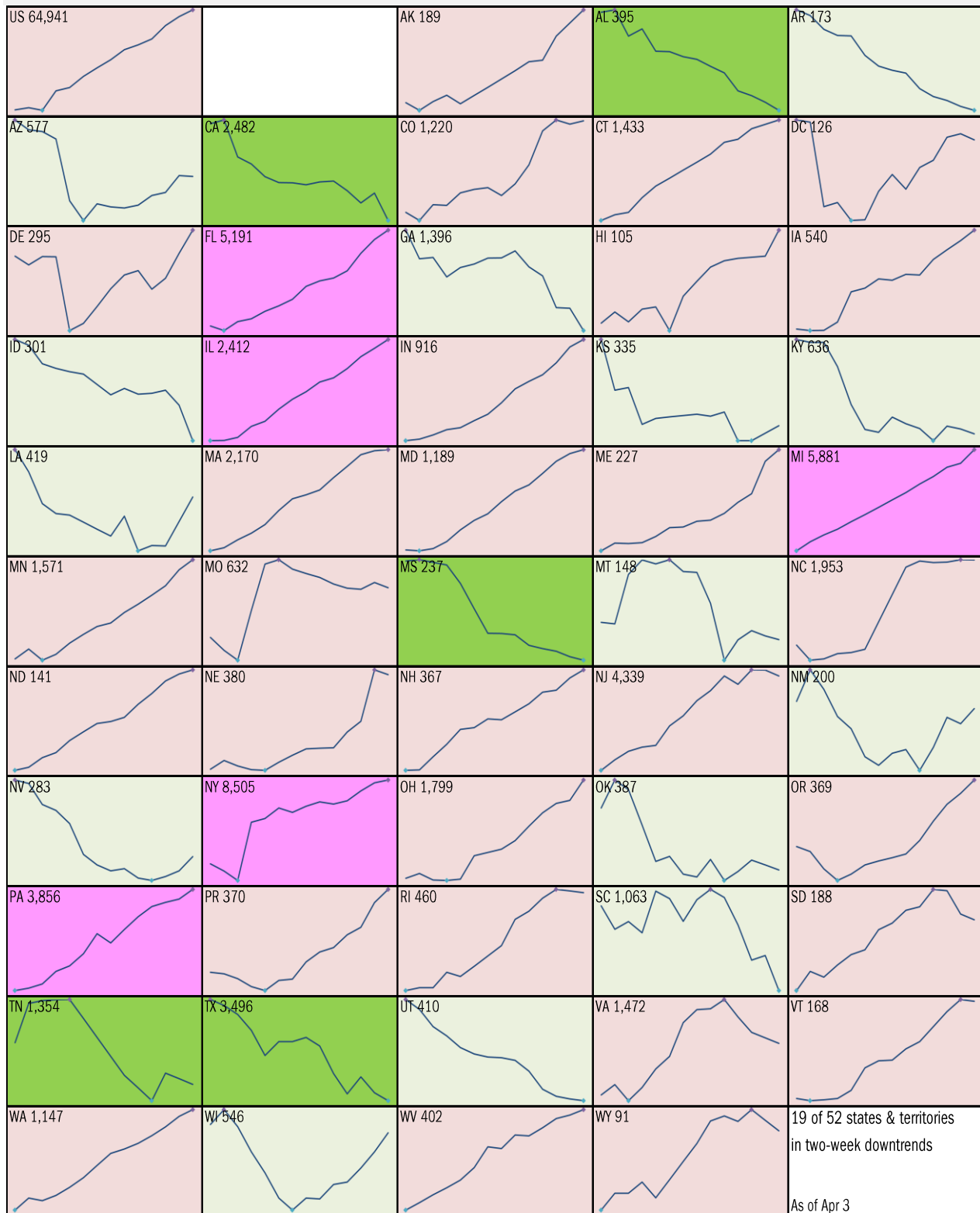


Source: [Johns Hopkins](#), TrendMacro calculations

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

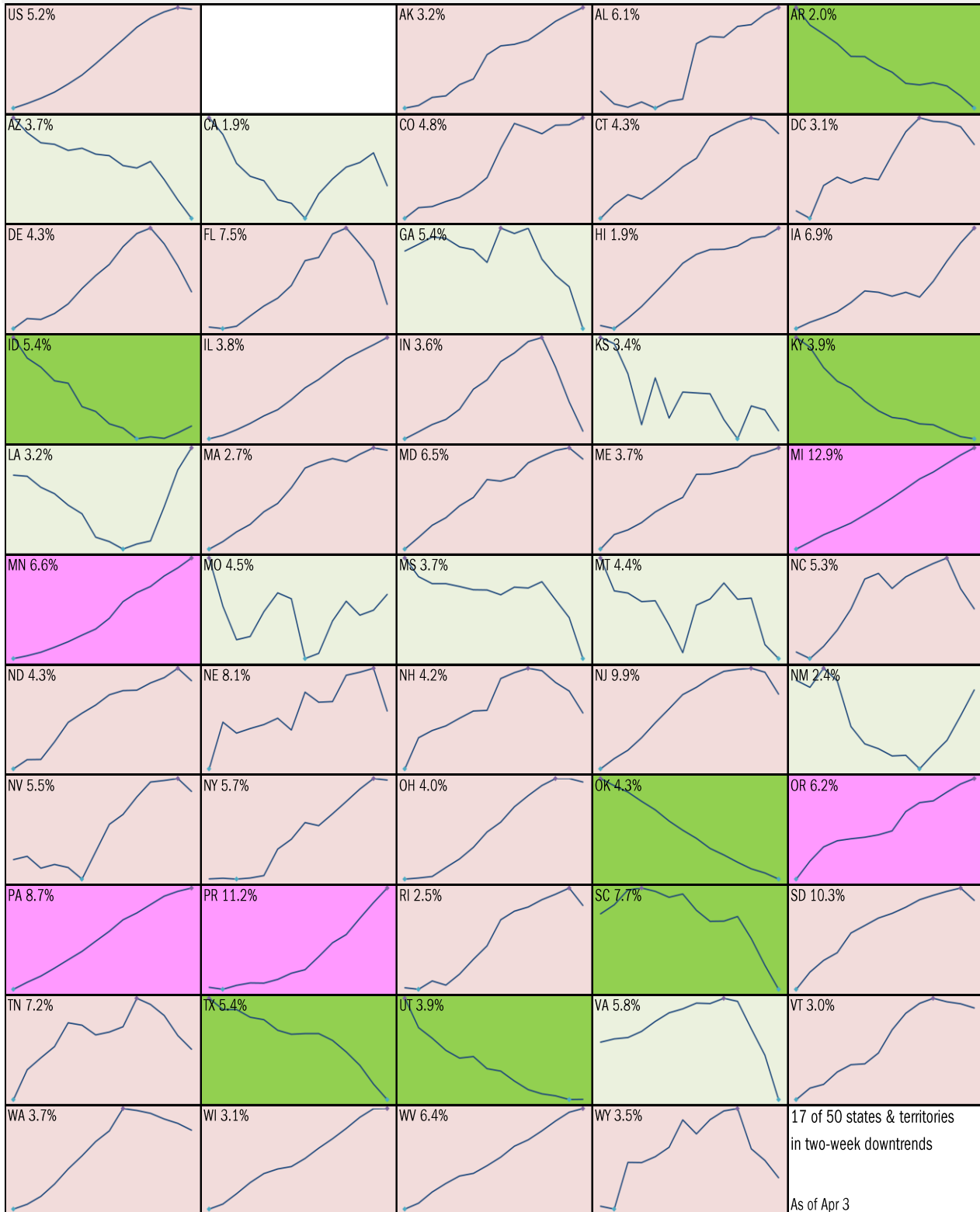


Source: [Johns Hopkins](#), TrendMacro calculations

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

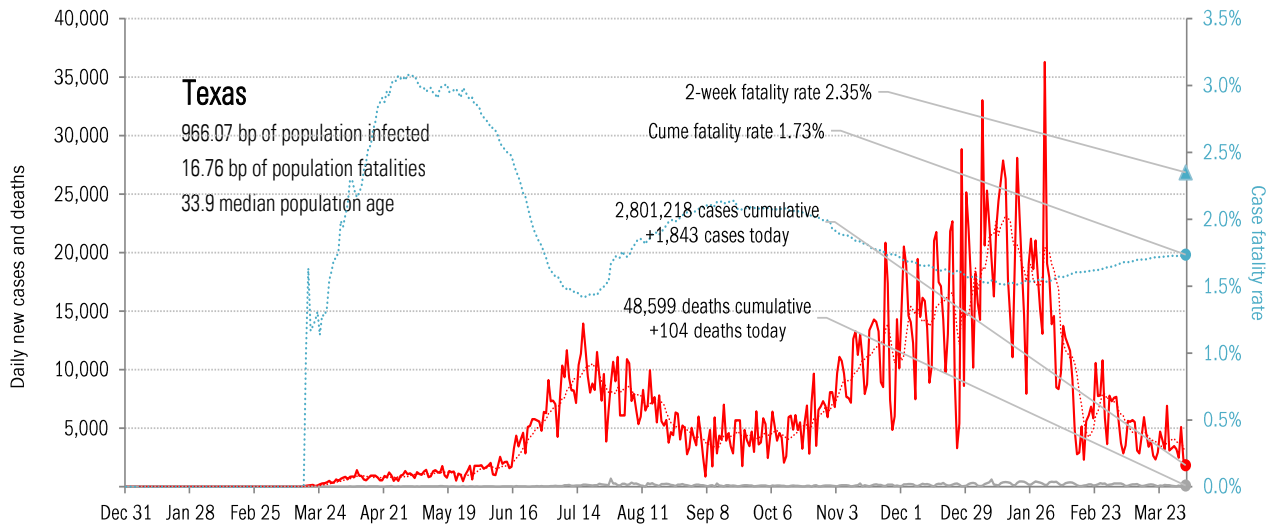
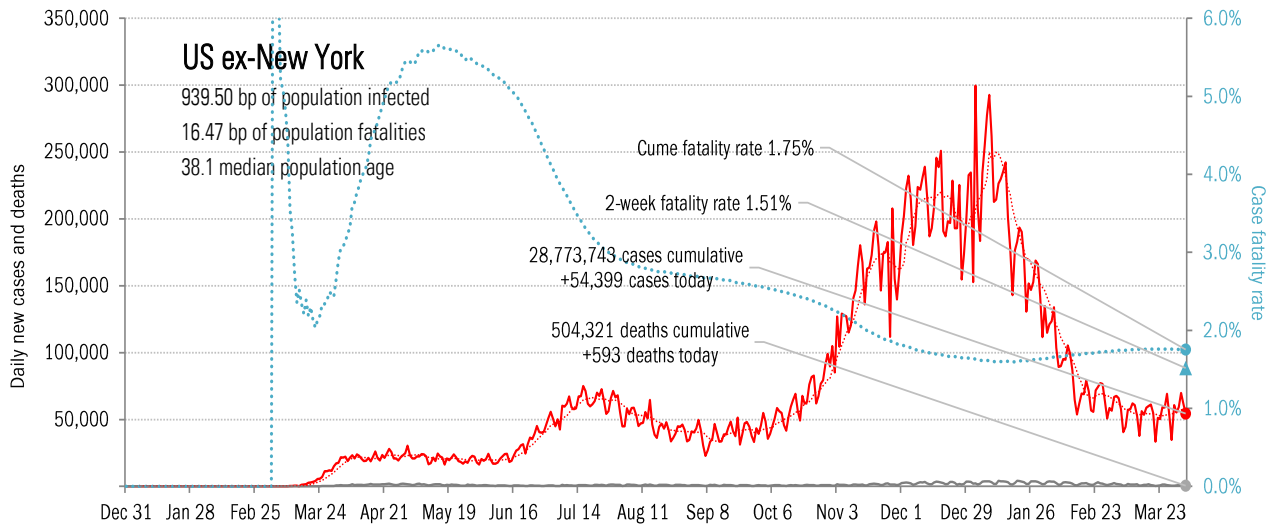
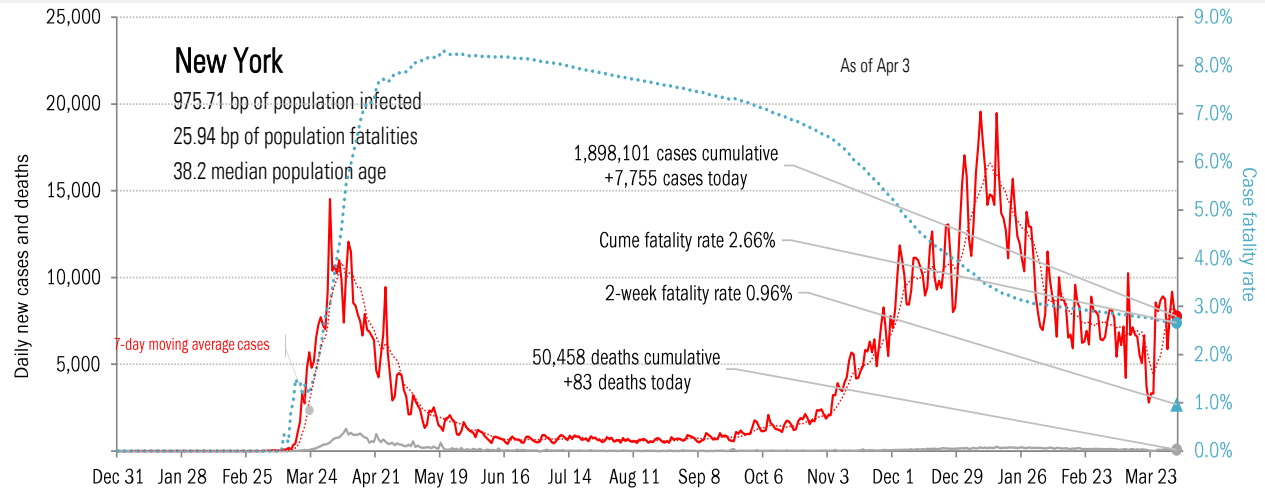
14-day moving average, last 14 days *Most recent value displayed* ● High ● Low

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



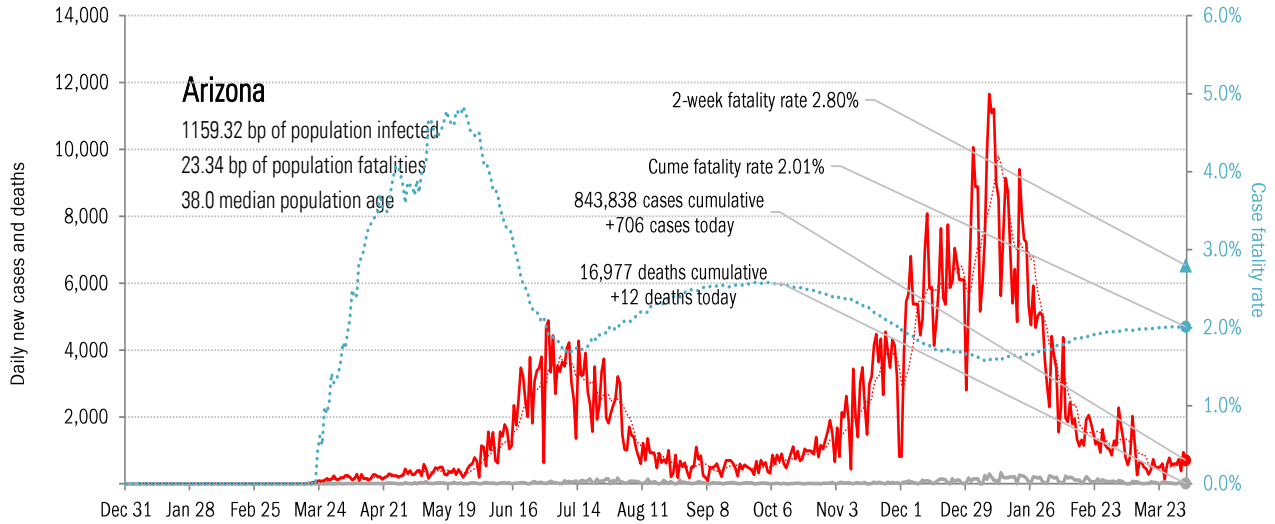
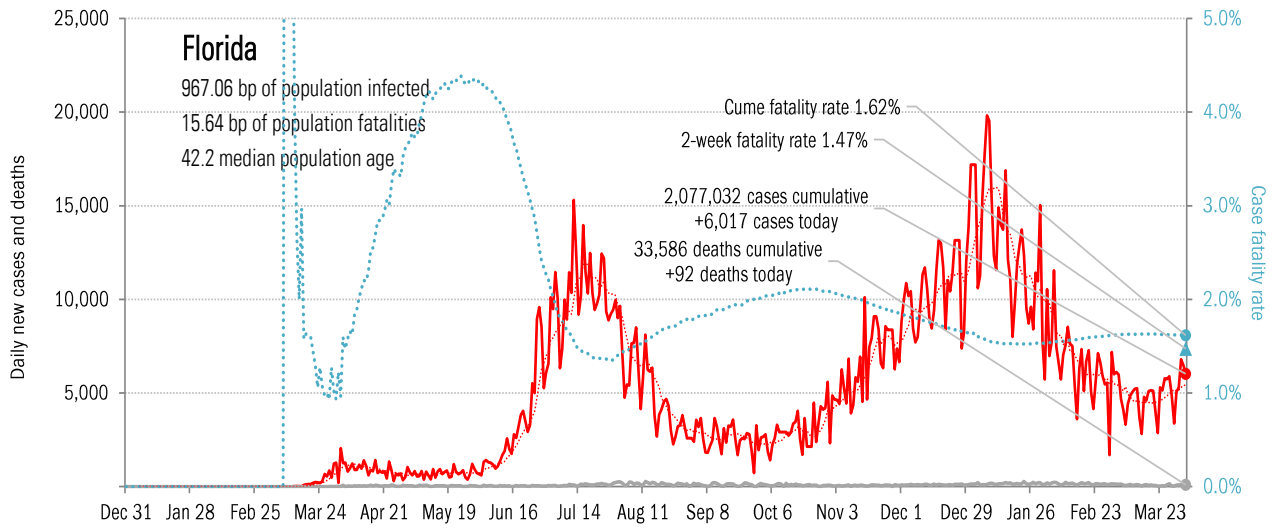
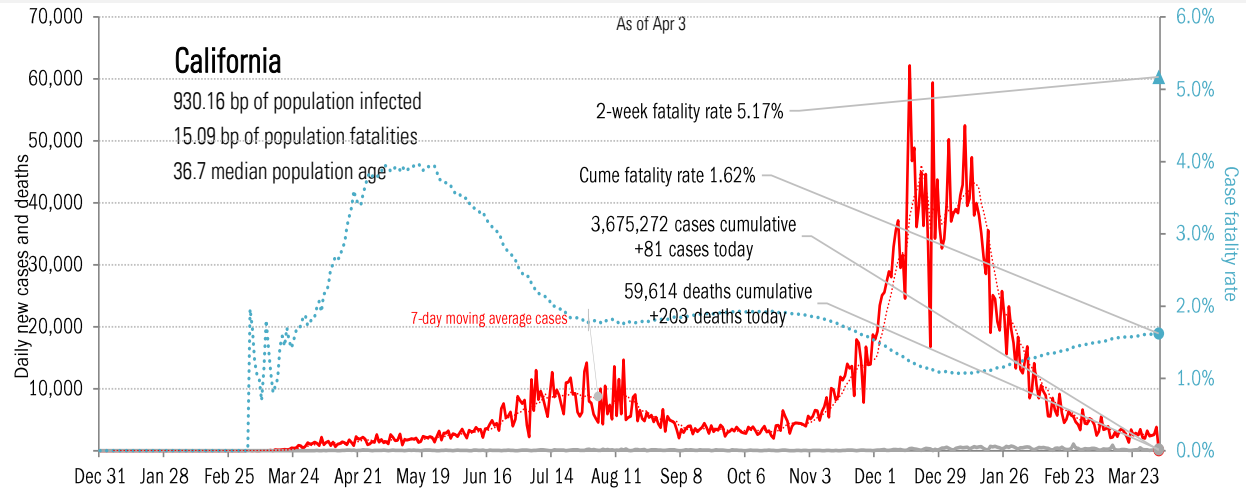
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



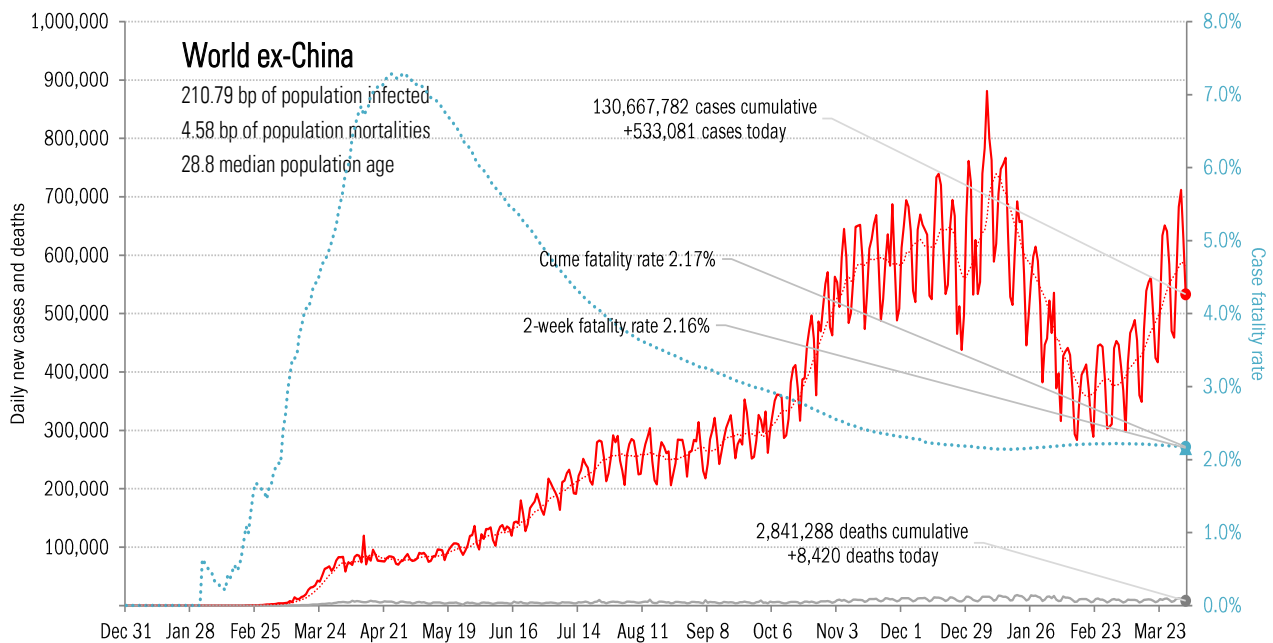
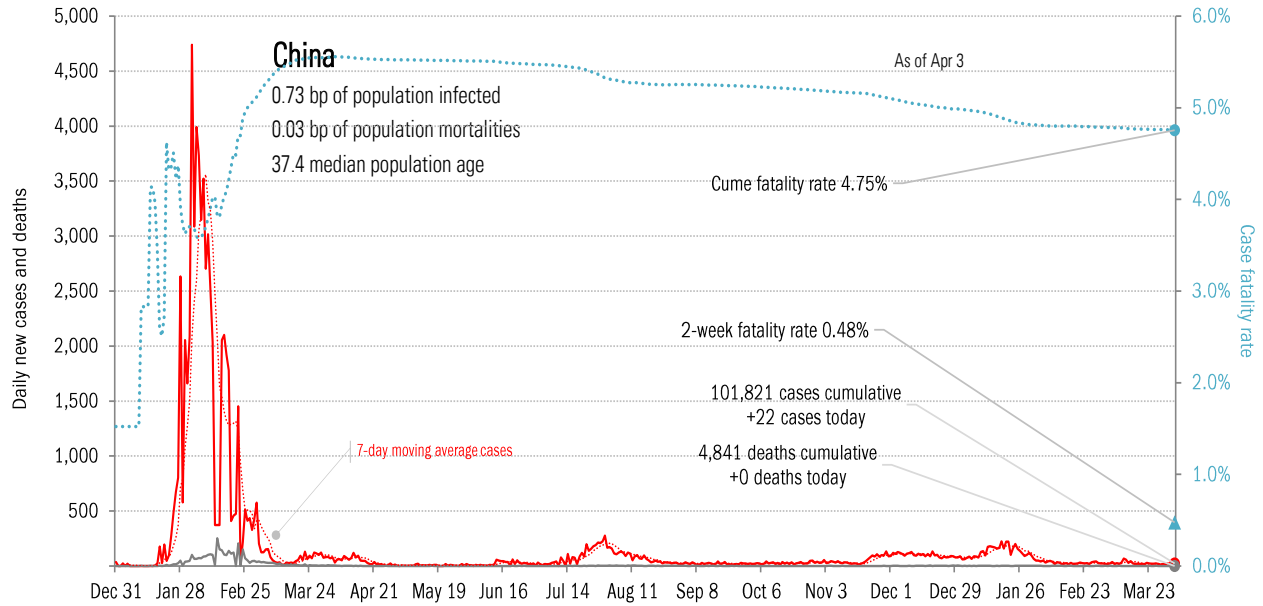
Source: [Johns Hopkins](#), TrendMacro calculations

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



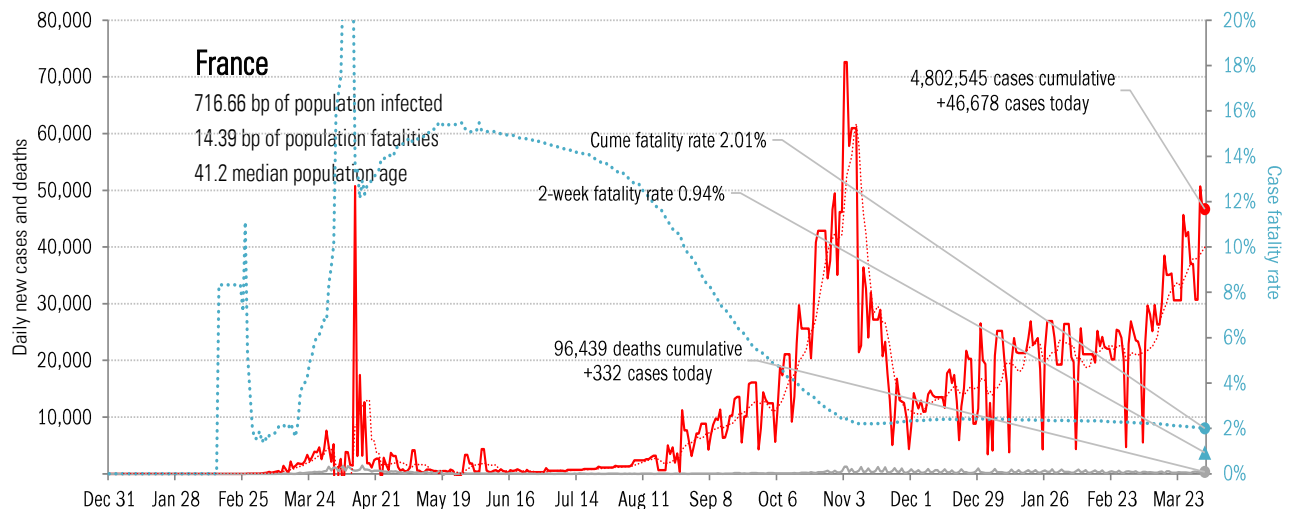
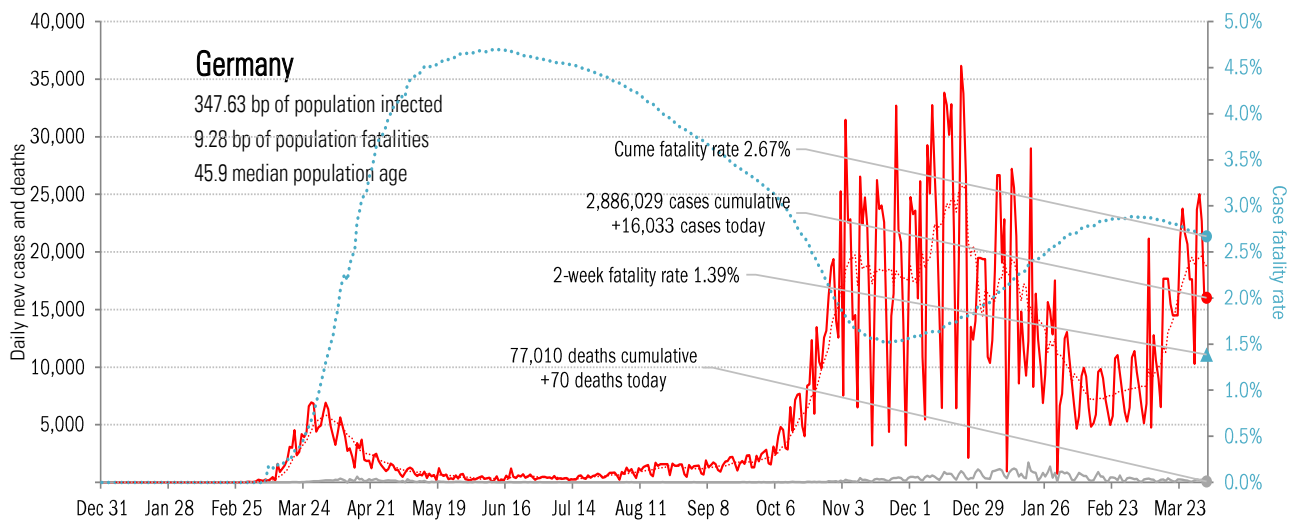
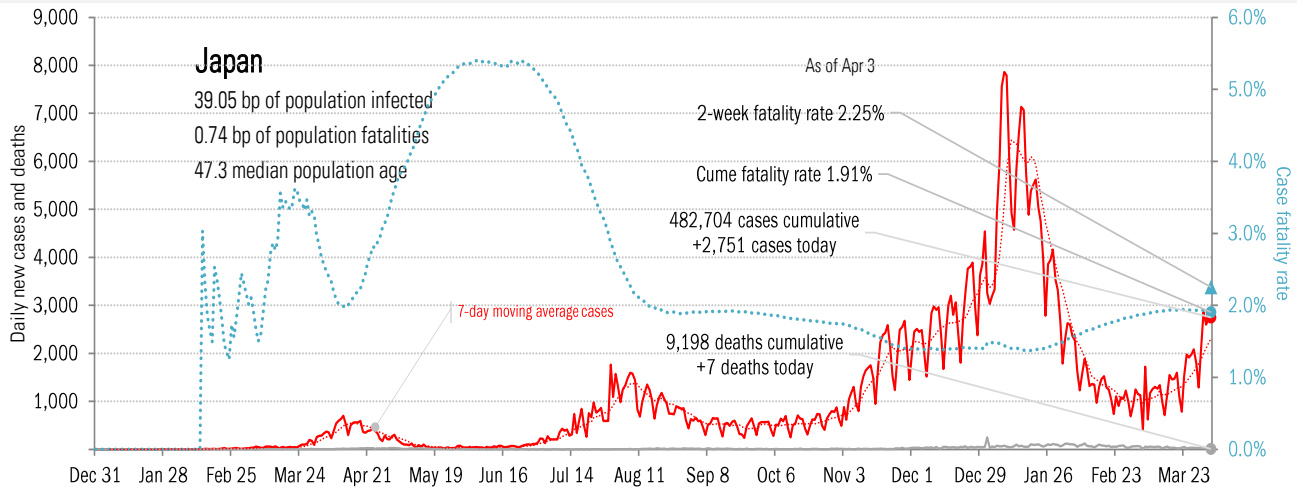
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



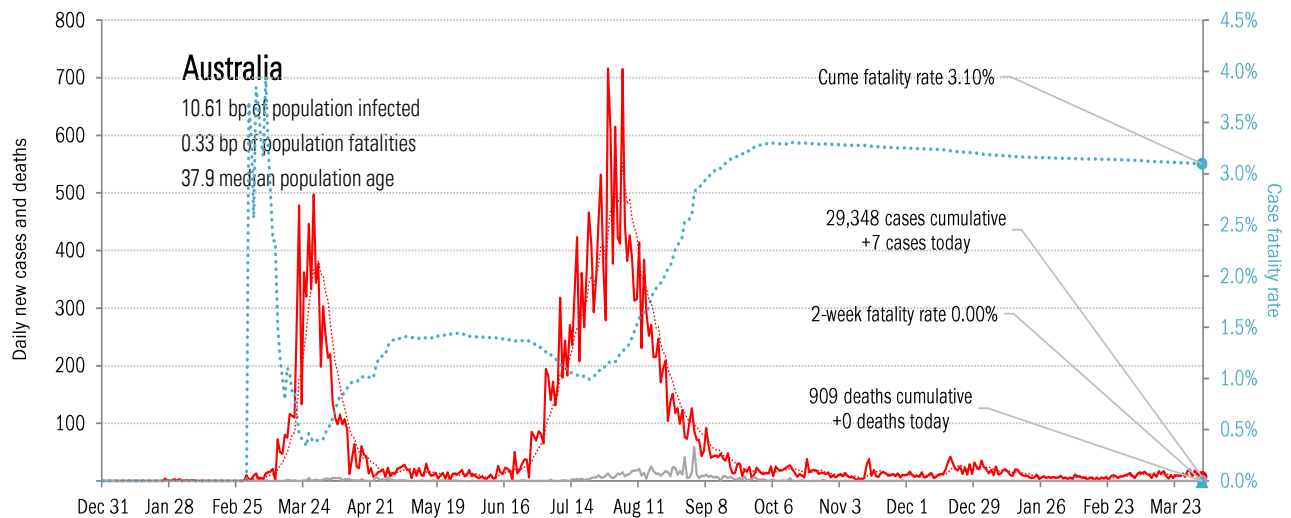
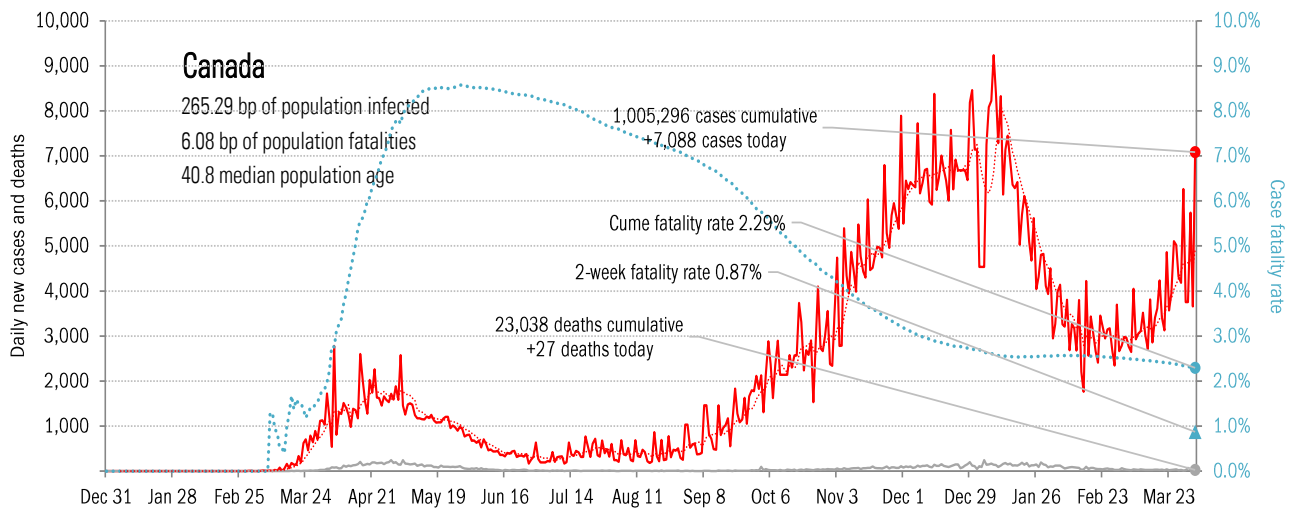
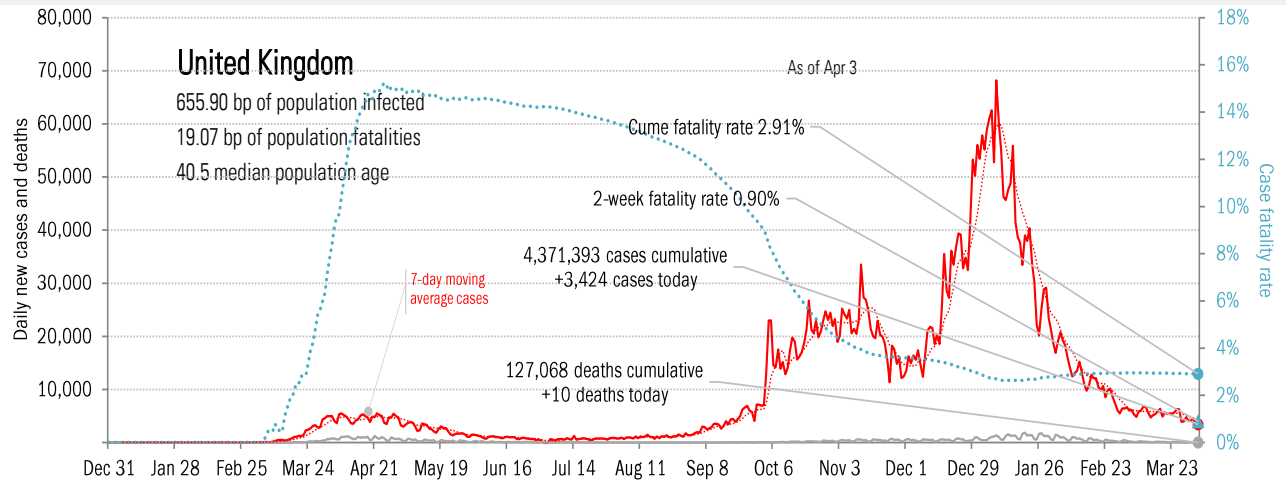
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



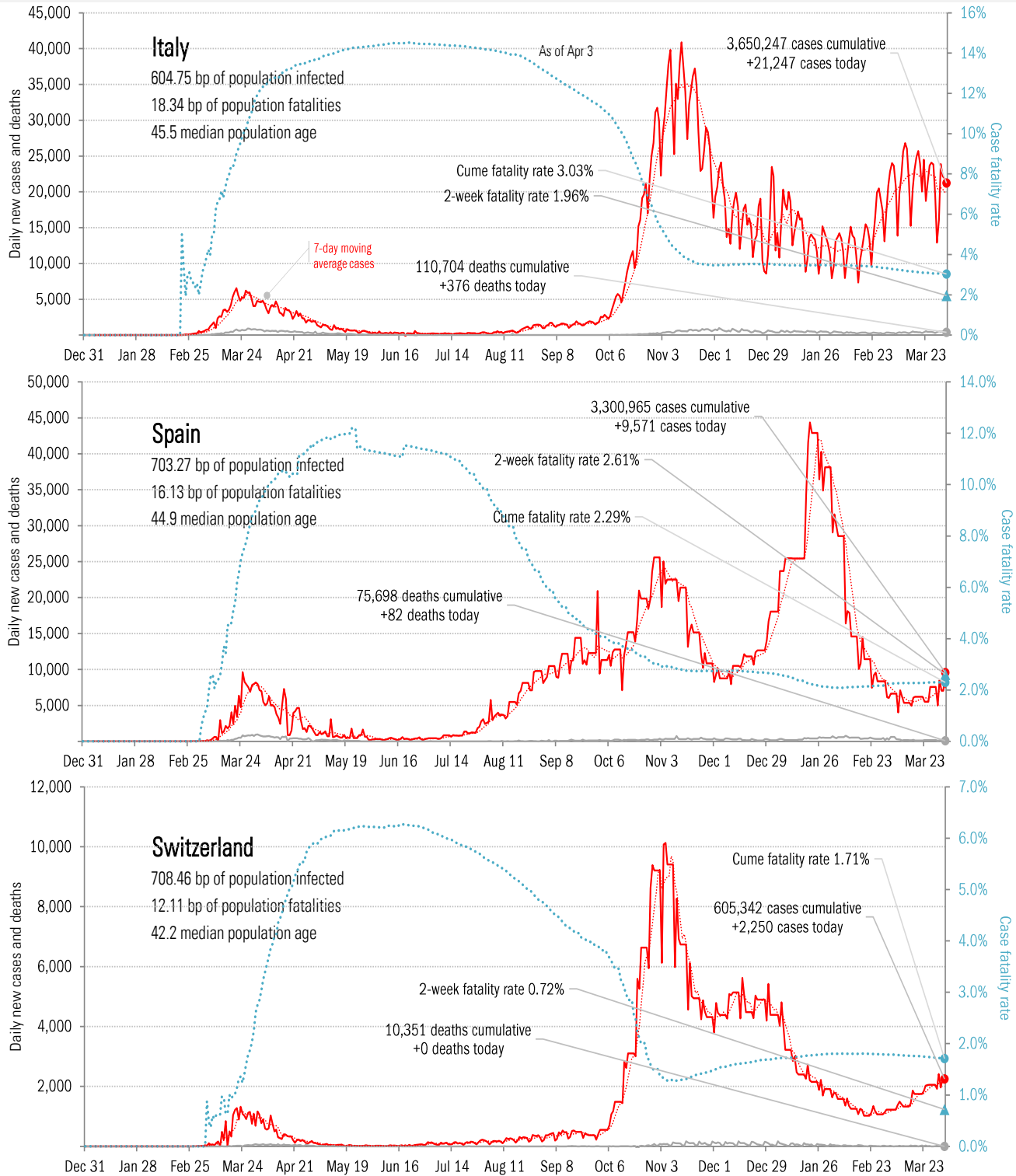
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



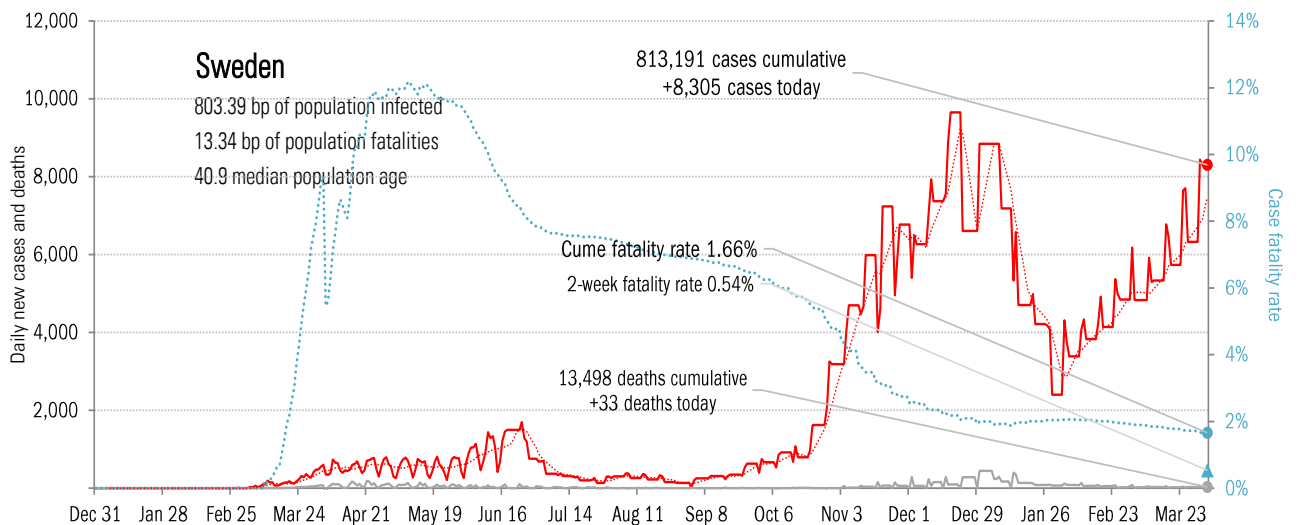
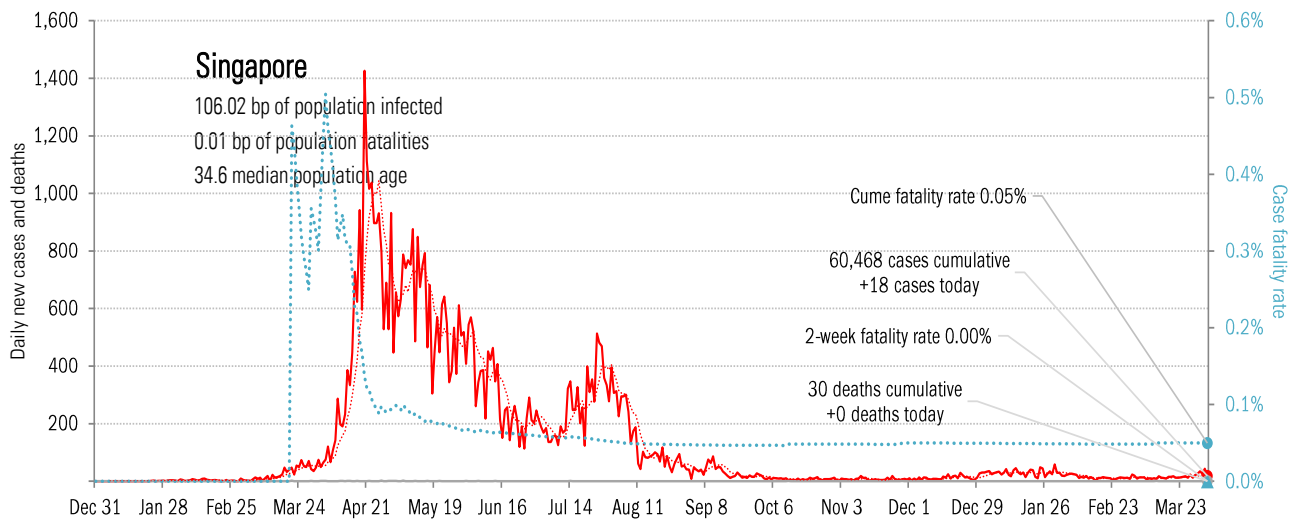
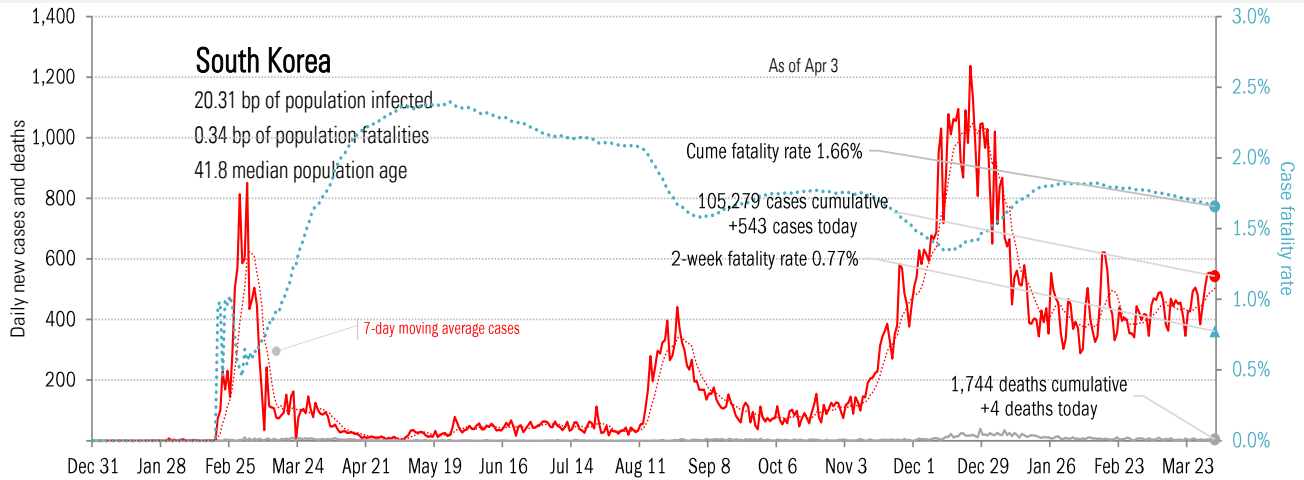
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



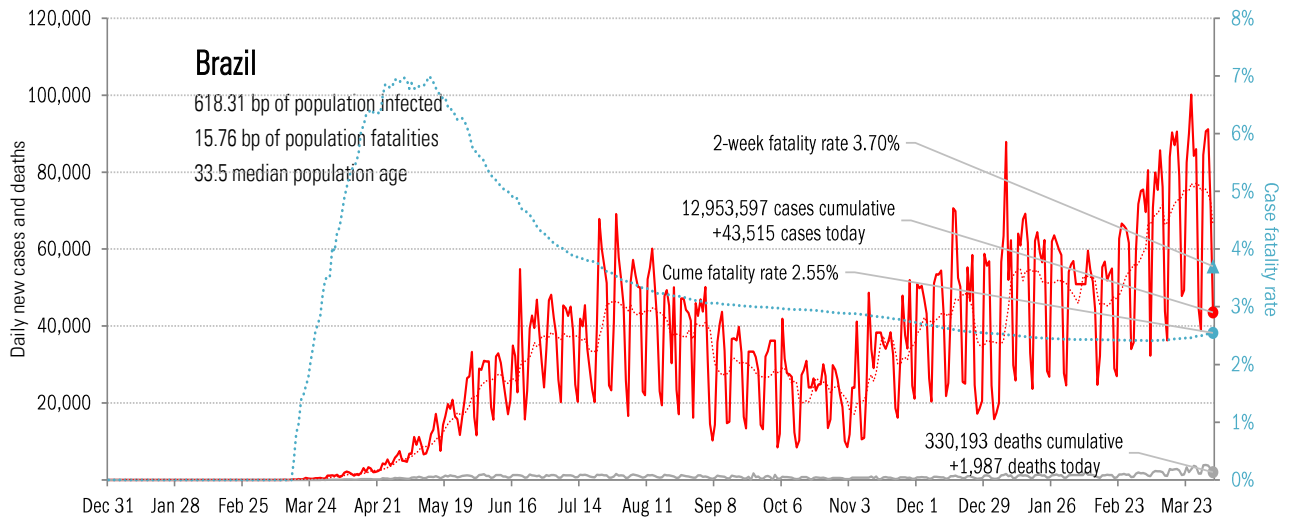
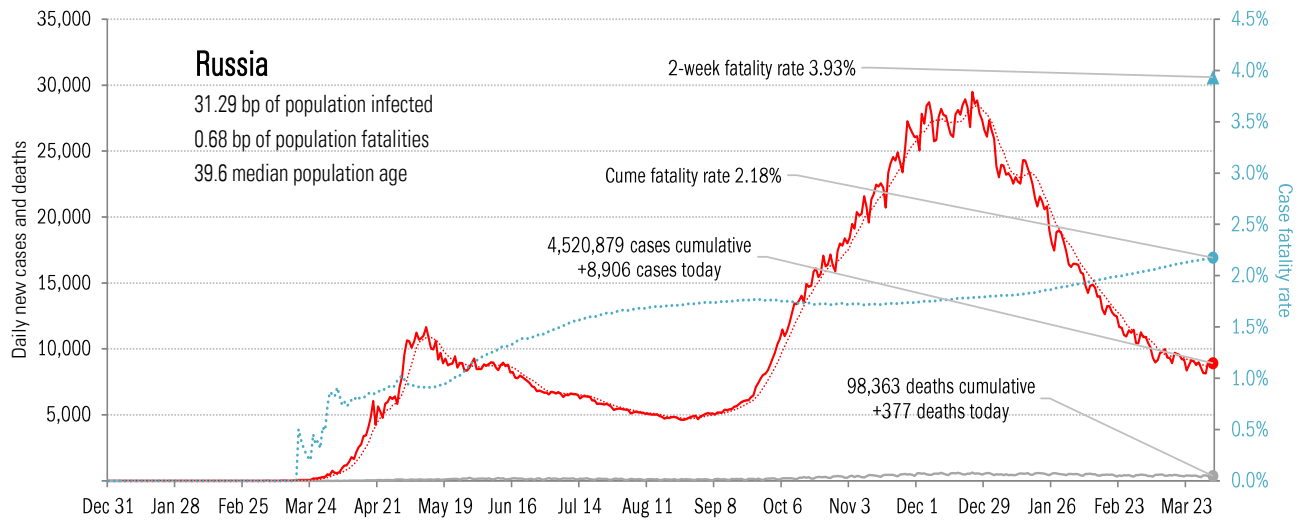
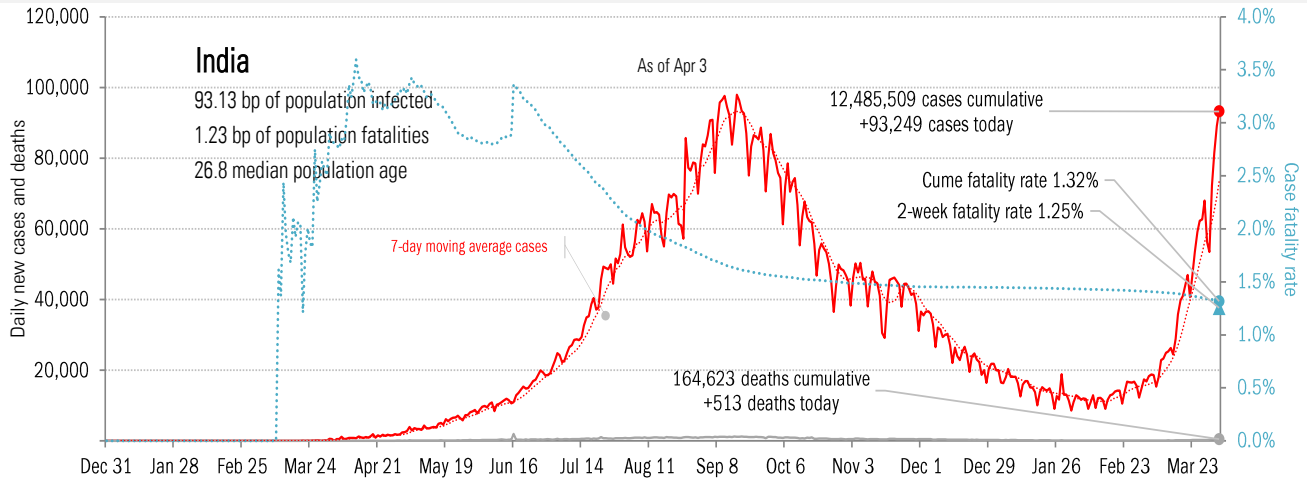
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



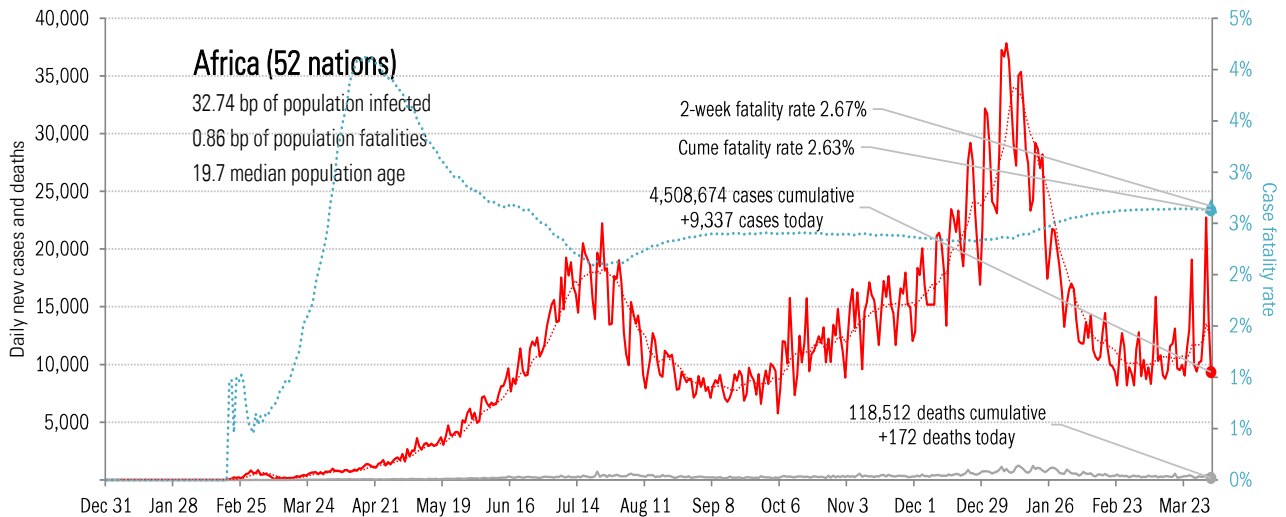
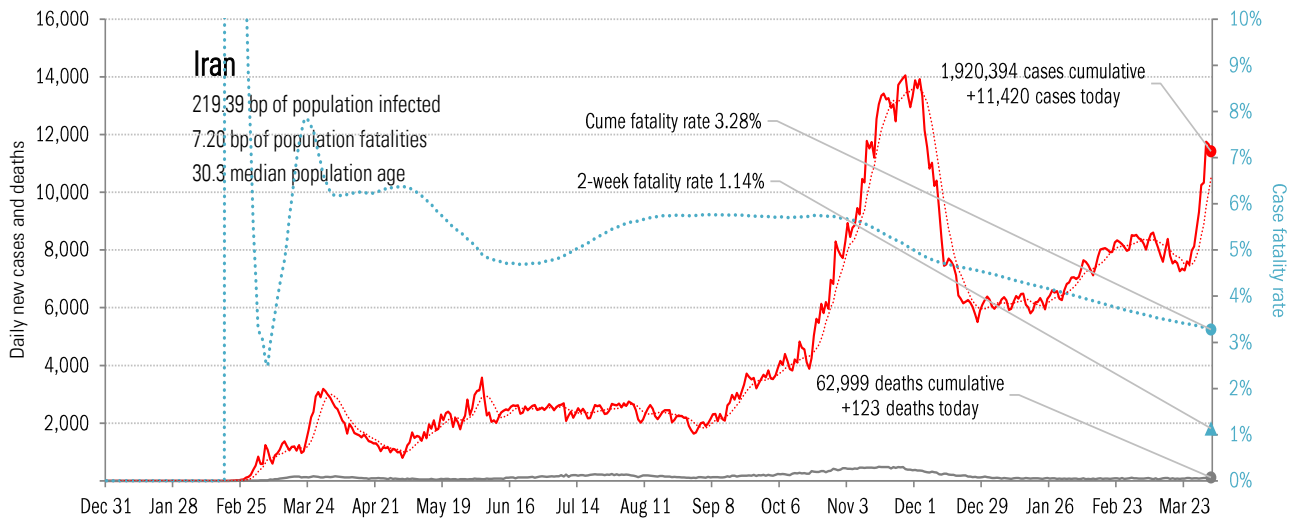
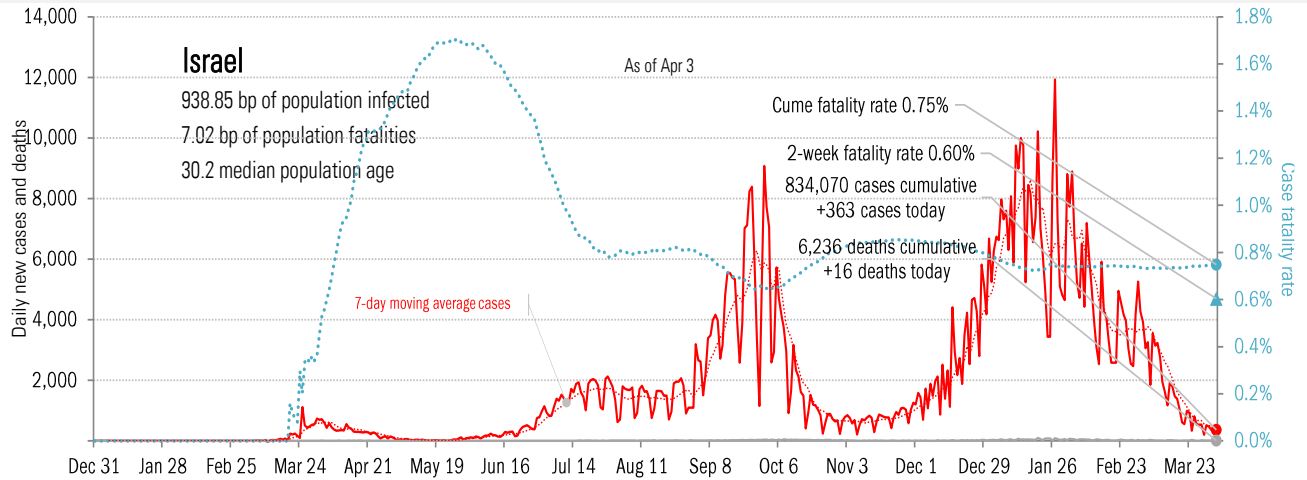
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



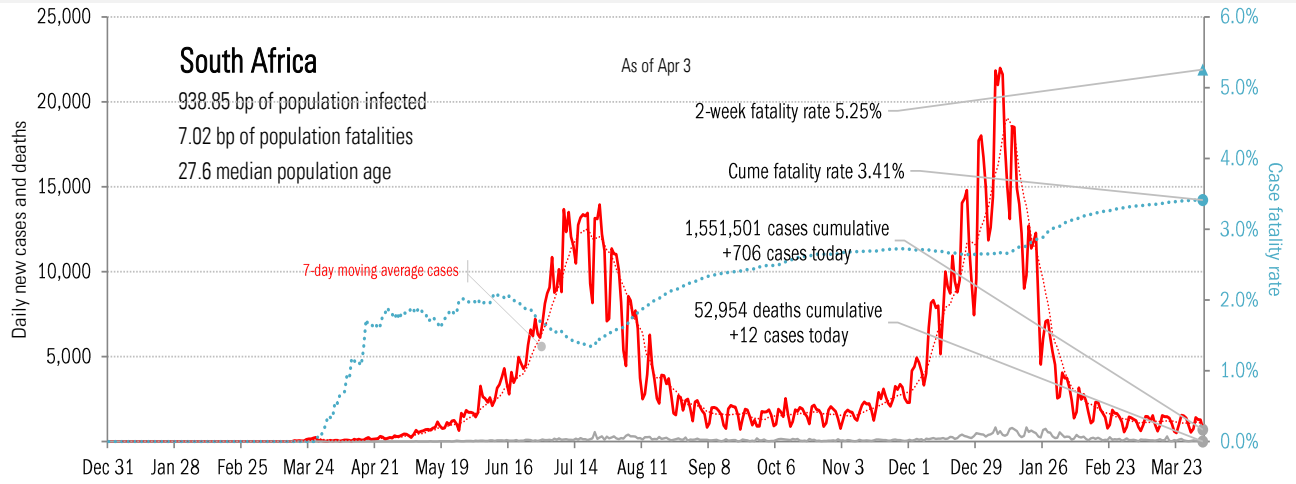
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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