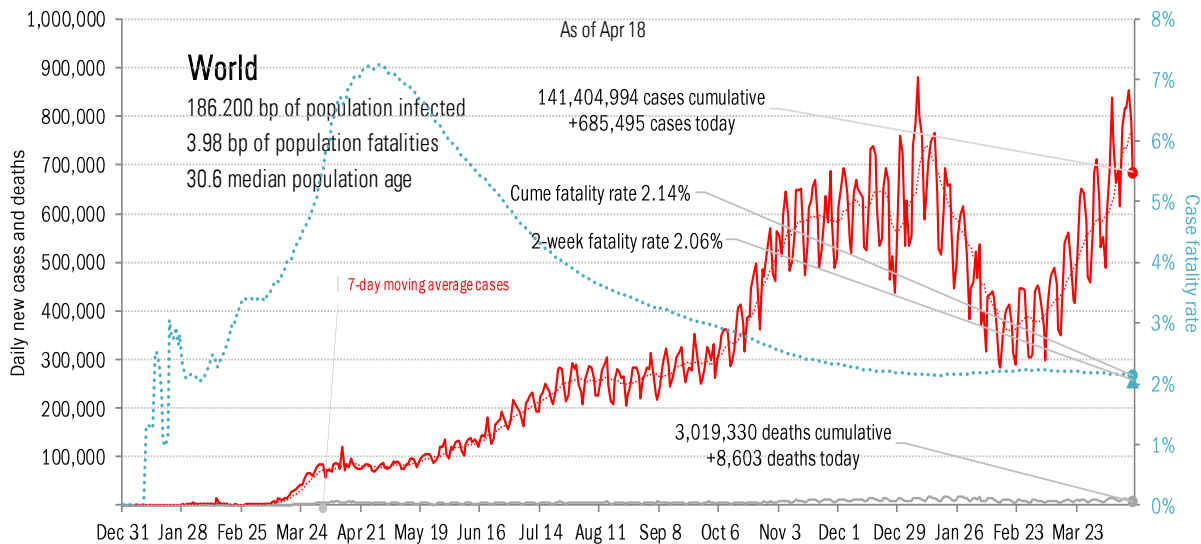
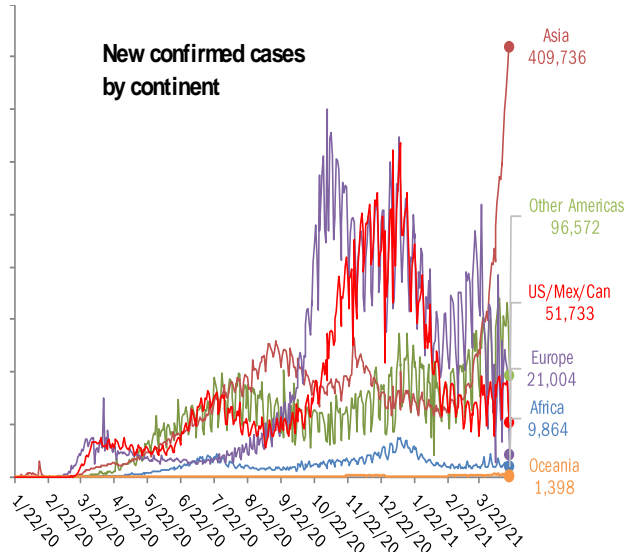


Data Insights: Covid-2019 Monitor

Monday, April 19, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+273,802	Brazil	+1,657
Turkey	+55,802	India	+1,619
Brazil	+42,980	Iran	+405
United States	+42,018	Colombia	+397
France	+29,345	Russia	+383
Iran	+21,644	Turkey	+318
Colombia	+16,871	United States	+313
Argentina	+16,267	Ukraine	+256
Italy	+12,688	Italy	+251
Poland	+12,151	Poland	+207
+523,568		+5,806	
World	+685,495	World	+8,603
Top ten	76%	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

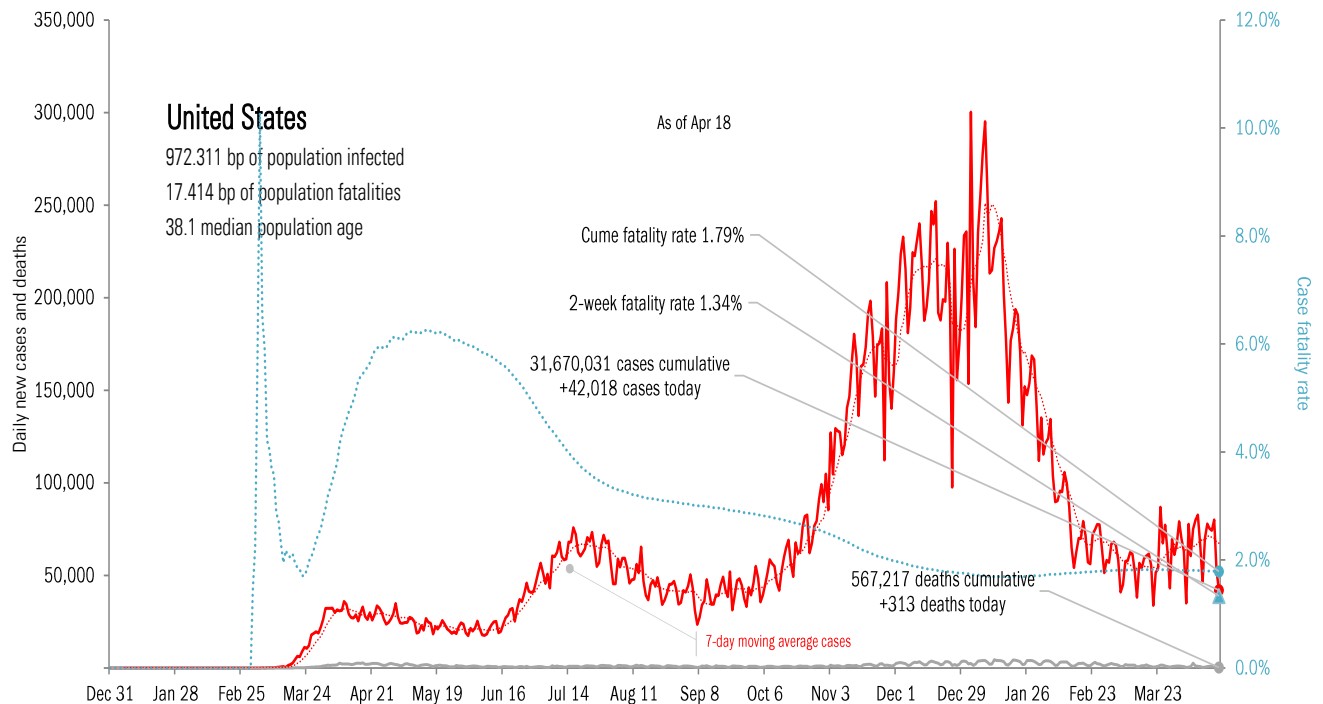
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
FL	+6,834		CA	+44		FR	+215		CA	3,718,210		CA	61,038		TX	233,223		R	92%	MI	31%
NY	+5,641		NY	+42		IL	+106		TX	2,850,575		NY	51,579		CA	227,481		MA	84%	MD	26%
NJ	+3,149		FL	+35		MI	+41		FL	2,168,901		TX	49,595		FL	161,133		MD	82%	MN	20%
IL	+2,659		TX	+33		GA	+38		NY	1,998,912		FL	34,439		NY	124,095		PA	82%	RI	19%
PA	+2,612		PA	+21		TN	+36		IL	1,302,134		PA	25,665		GA	98,306		MI	82%	NY	18%
MN	+1,845		MD	+17		NY	+30		PA	1,107,673		NJ	25,143		PA	80,126		CT	81%	PA	16%
CA	+1,631		VA	+17		CH	+30		GA	1,084,272		IL	23,955		CH	79,205		MO	80%	CO	14%
TX	+1,503		MN	+15		WI	+29		CH	1,053,175		GA	19,758		IL	72,842		FL	79%	IL	14%
MA	+1,407		SC	+15		KY	+28		NJ	978,853		CH	18,991		KY	70,459		MN	79%	DC	14%
FR	+1,348		CO	+11		WA	+27		NC	943,693		MI	17,934		MI	59,811		SC	79%	ME	13%
+28,629			+250			+580			17,206,398			328,097			1,206,681						
All states	+42,018			+313			+477		All states	31,670,031			567,217			2,153,974		All states	70%		67%
Top ten	68%			80%			122%		Top ten	54%			58%			56%		Median	73%		10%

Some states not reporting

Five most improved US states

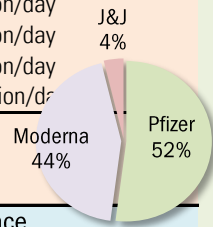
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-6,076	MI	-76	NJ	-113	VT	+121 bp
WA	-1,655	AL	-51	TX	-74	MD	+110 bp
PA	-1,592	FL	-39	CO	-56	FL	+79 bp
IN	-1,523	GA	-38	FL	-51	WI	+78 bp
NY	-949	NJ	-31	PA	-47	MS	+73 bp



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

Rolling out the vaccines in the US and the world

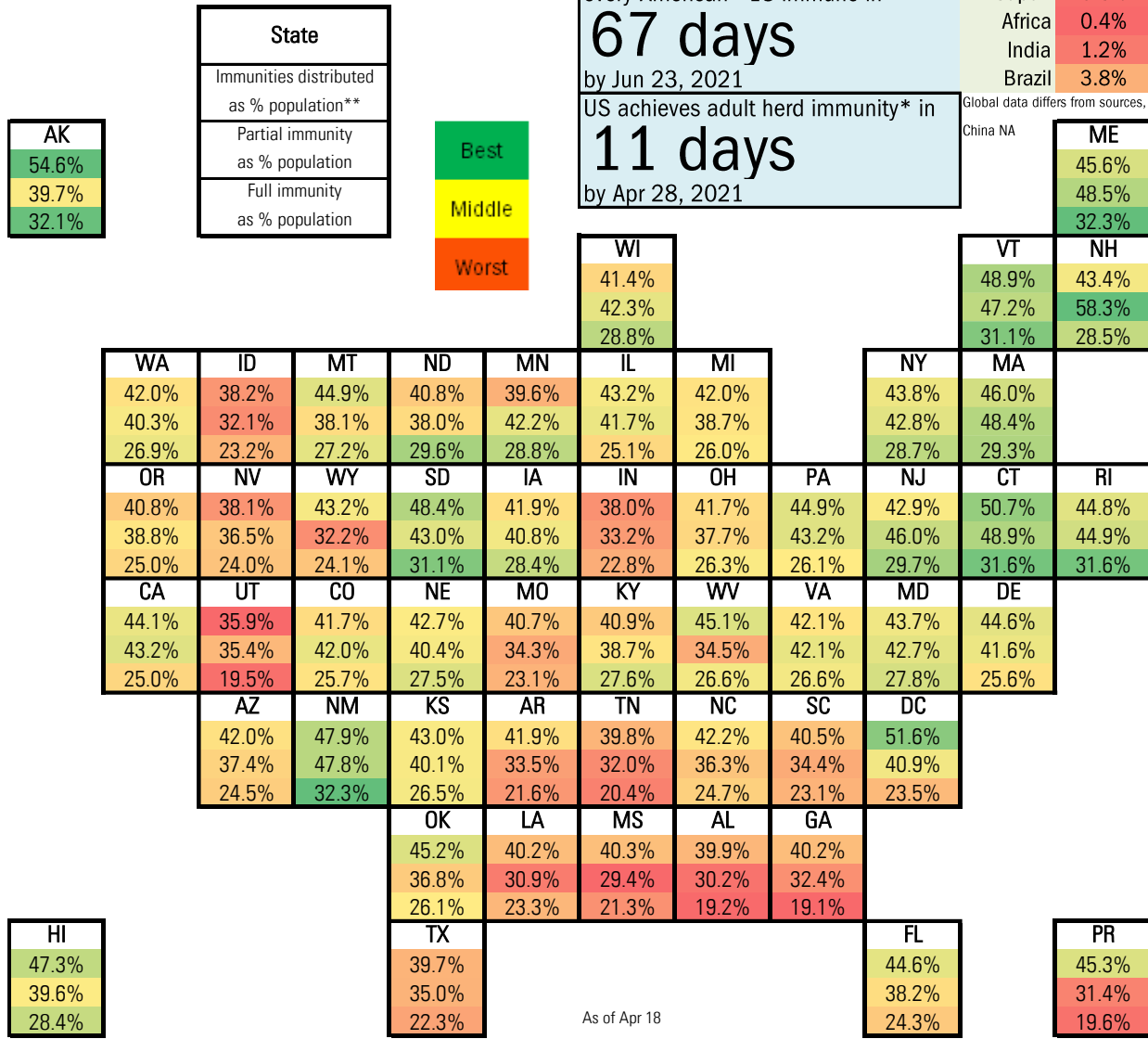
US overall	Over last day	Immunity	Full	Partial
275.52 million doses distributed	+0.01 million/day	US	25.2%	39.2%
217.05 million doses administered	+3.62 million/day	UK	14.6%	48.4%
135.26 million persons partially immunized	+1.79 million/day	France	6.6%	18.4%
87.34 million persons fully immunized	+1.84 million/day	Spain	7.1%	19.3%
7.78 million shots long-term care residents/staff	+0.002 million/day	Germany	6.6%	19.6%
		Italy	7.4%	17.8%
		Australia	0.9%	0.6%
		Israel	57.5%	61.8%
		Canada	2.4%	24.0%
		Japan	0.6%	1.0%
		Africa	0.4%	0.8%
		India	1.2%	7.8%
		Brazil	3.8%	11.7%



78.8% of distributed doses administered
40.5% of US pop partial **26.1% full immunity**
100% of LTC partial **64.0% full immunity**

At today's dosing pace,
 every American >18 immune in
67 days
 by Jun 23, 2021
 US achieves adult herd immunity* in
11 days
 by Apr 28, 2021

Global data differs from sources, timing
 China NA

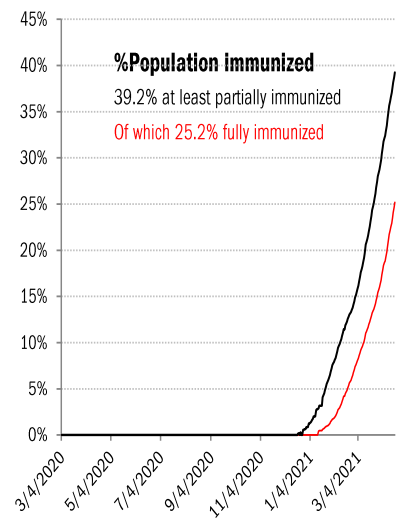
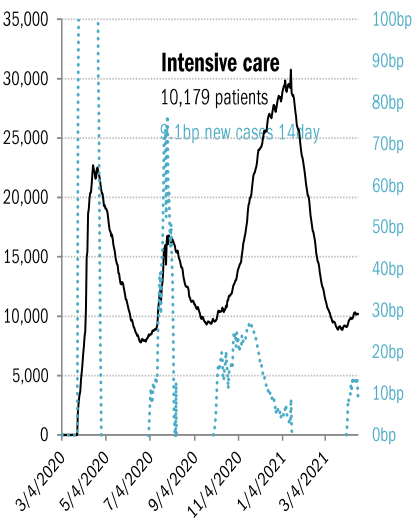
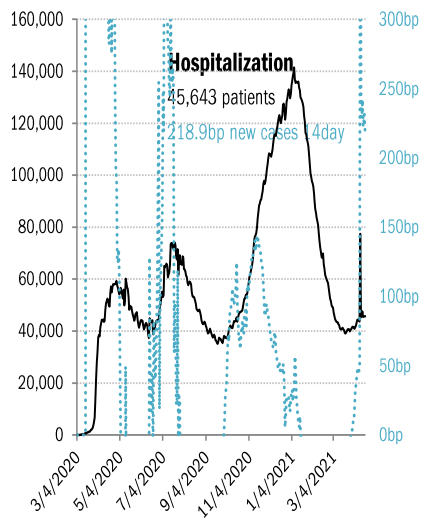
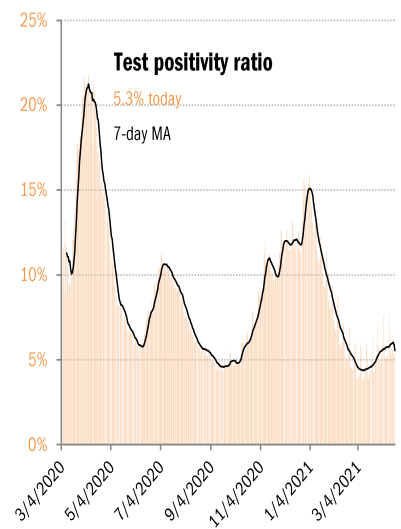
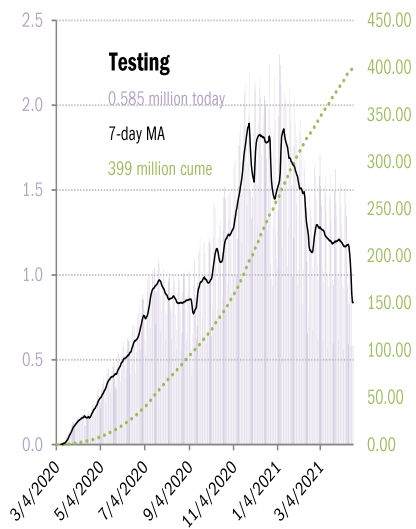
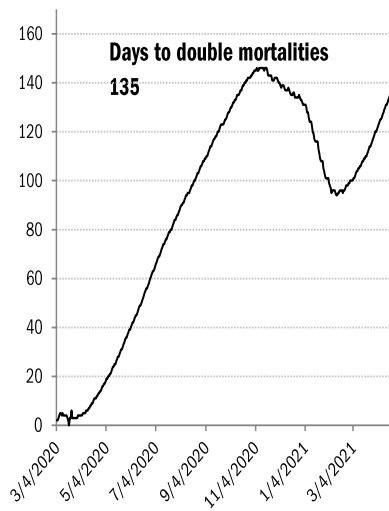
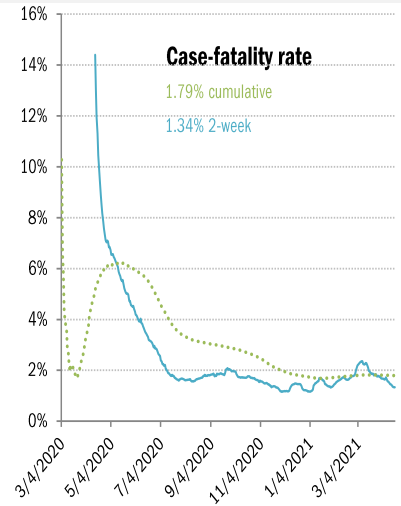
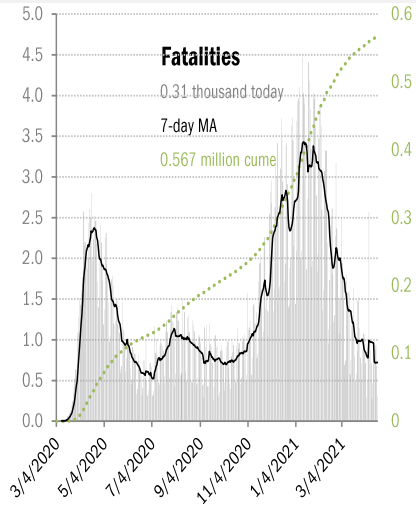
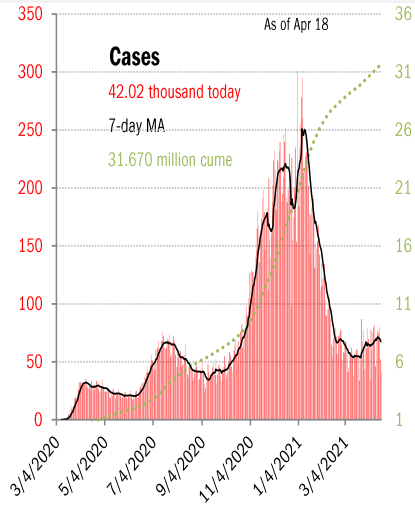


* Adult herd immunity is 60% of population over 18 years either fully vaccinated or prior tested positive, no overlap
 ** One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

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

US deep-dive

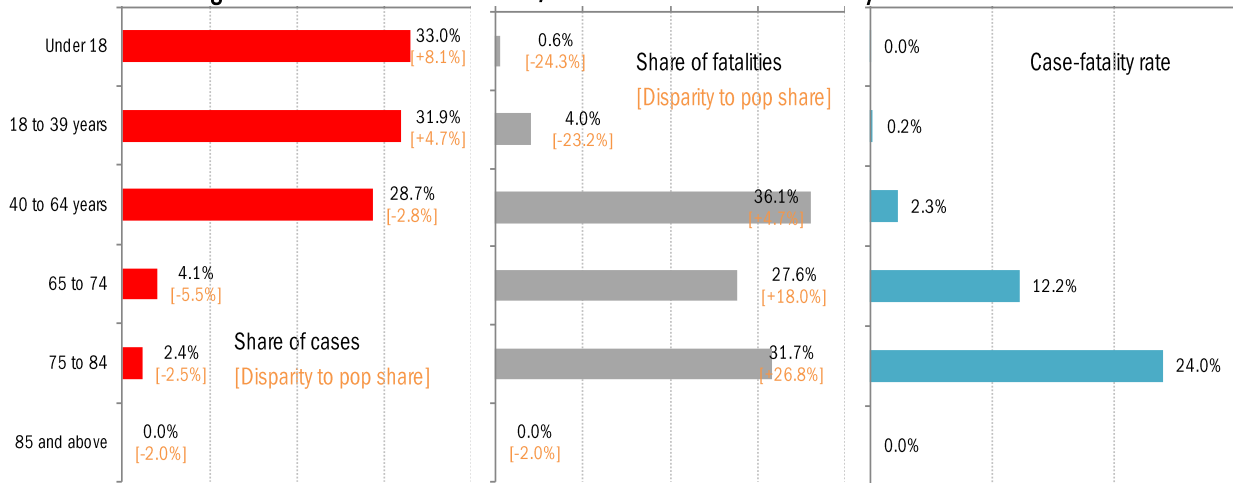
National and state-by-state data do not line up because of different sources



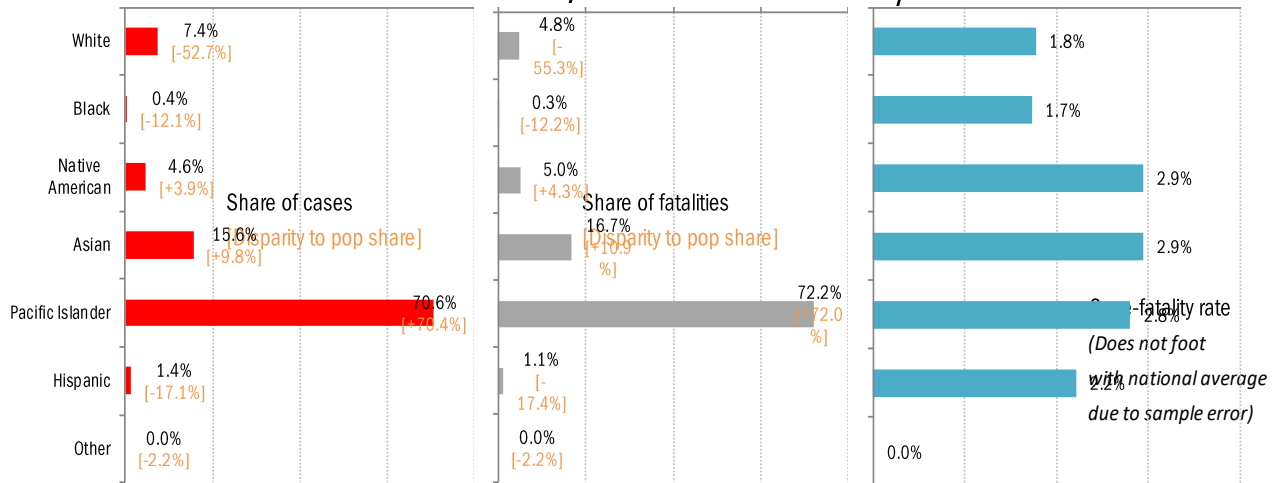
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

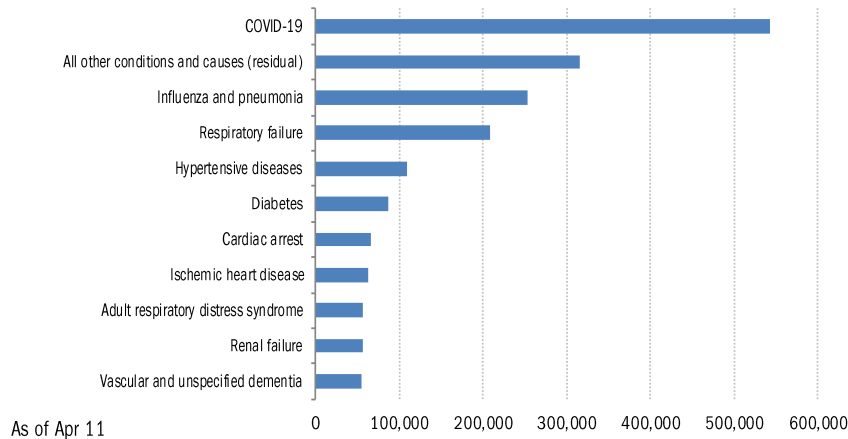


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



For over 5% 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

[Vaccines Won't Protect Millions of Patients With Weakened Immune Systems](#)

Apoorva Mandavilli
New York Times
April 15, 2021

[Drug Safety Is FDA's Job, Not CDC's](#)

Scott Gottlieb
Wall Street Journal
April 18, 2021

[COVID House Arrest and Mass Shootings](#)

S. Christopher Michaels
American Thinker
April 17, 2021

[Whitmer: State won't close down again following GOP lawsuits](#)

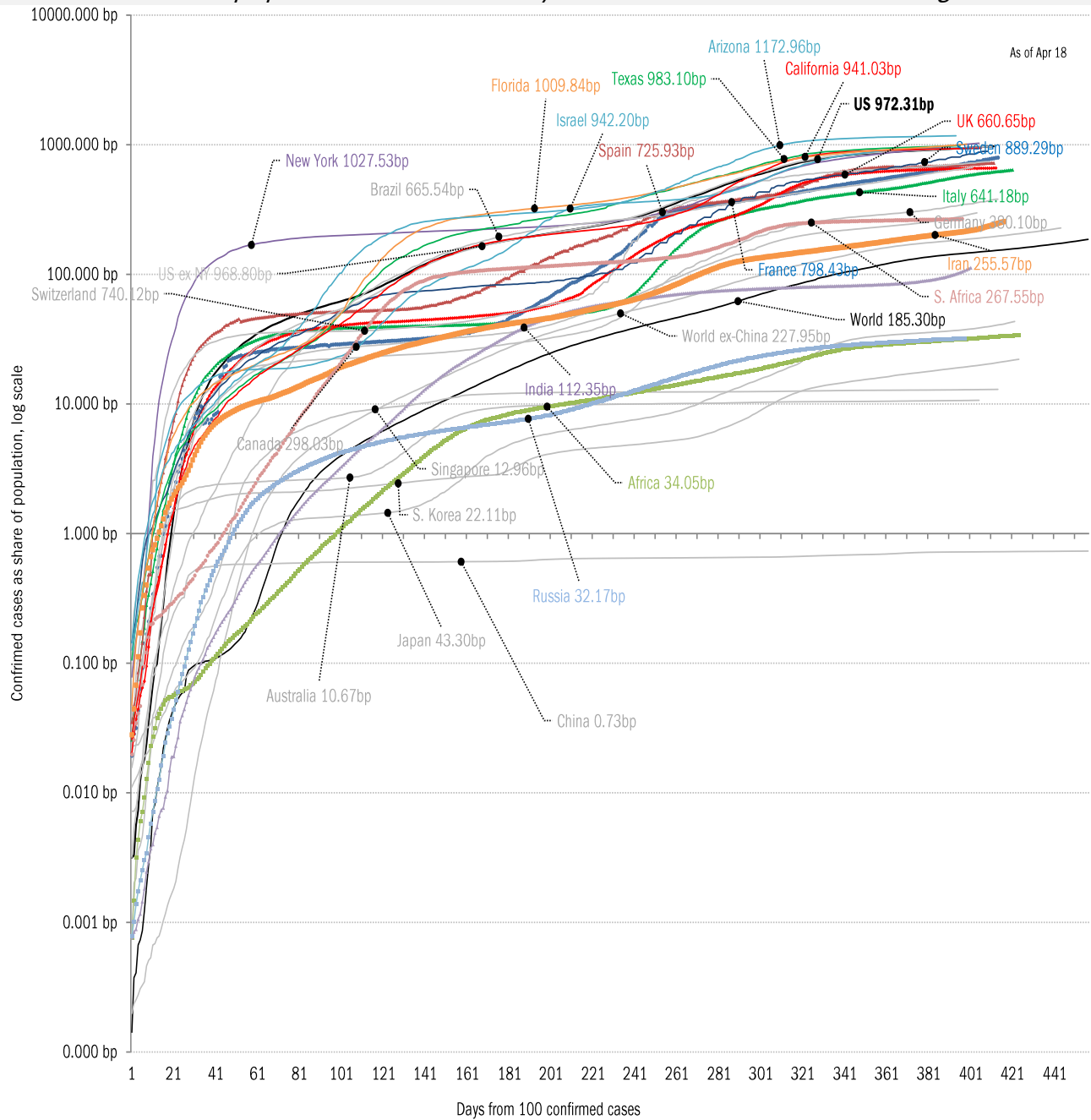
John Bowden
The Hill
April 18, 2021

Meme of the day



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

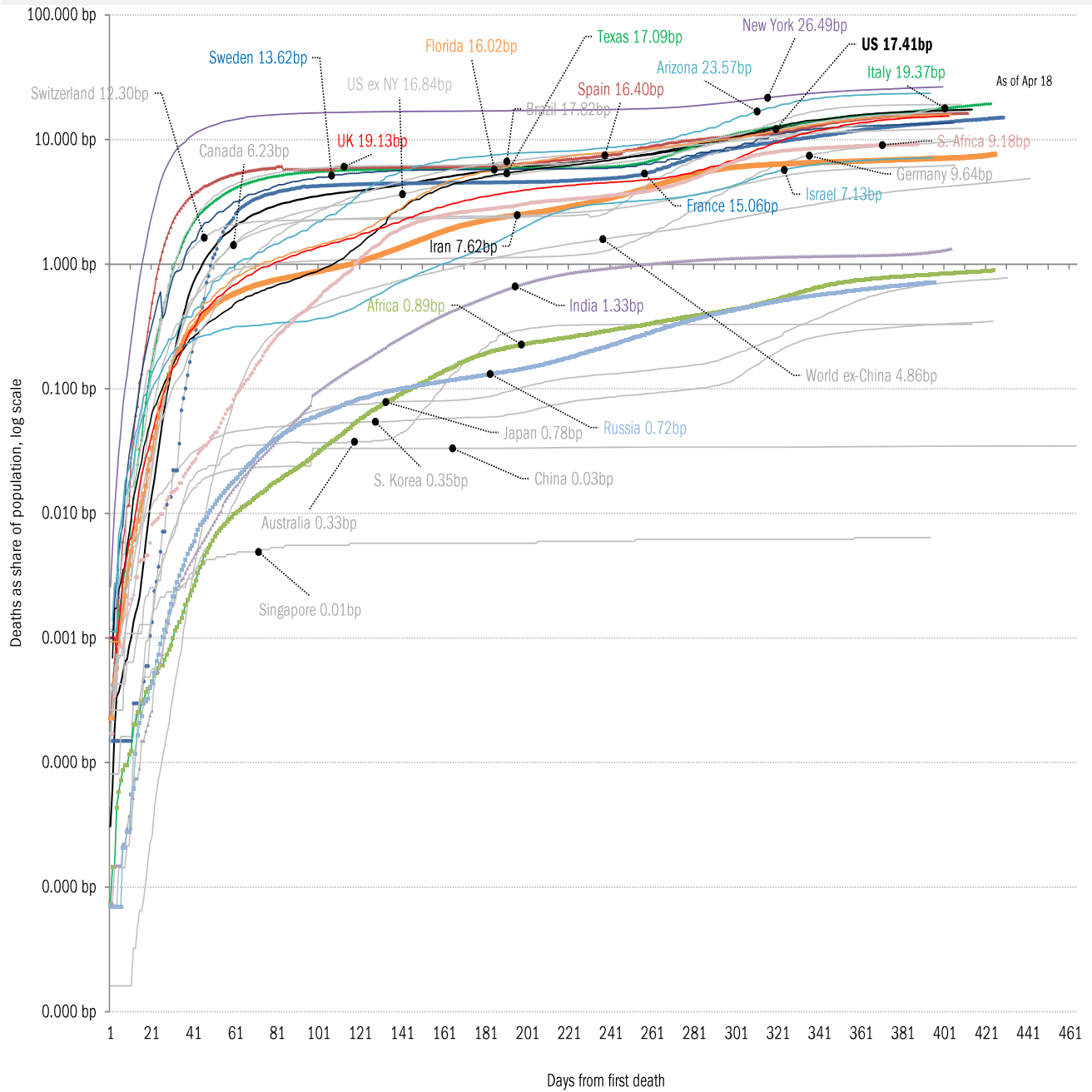
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

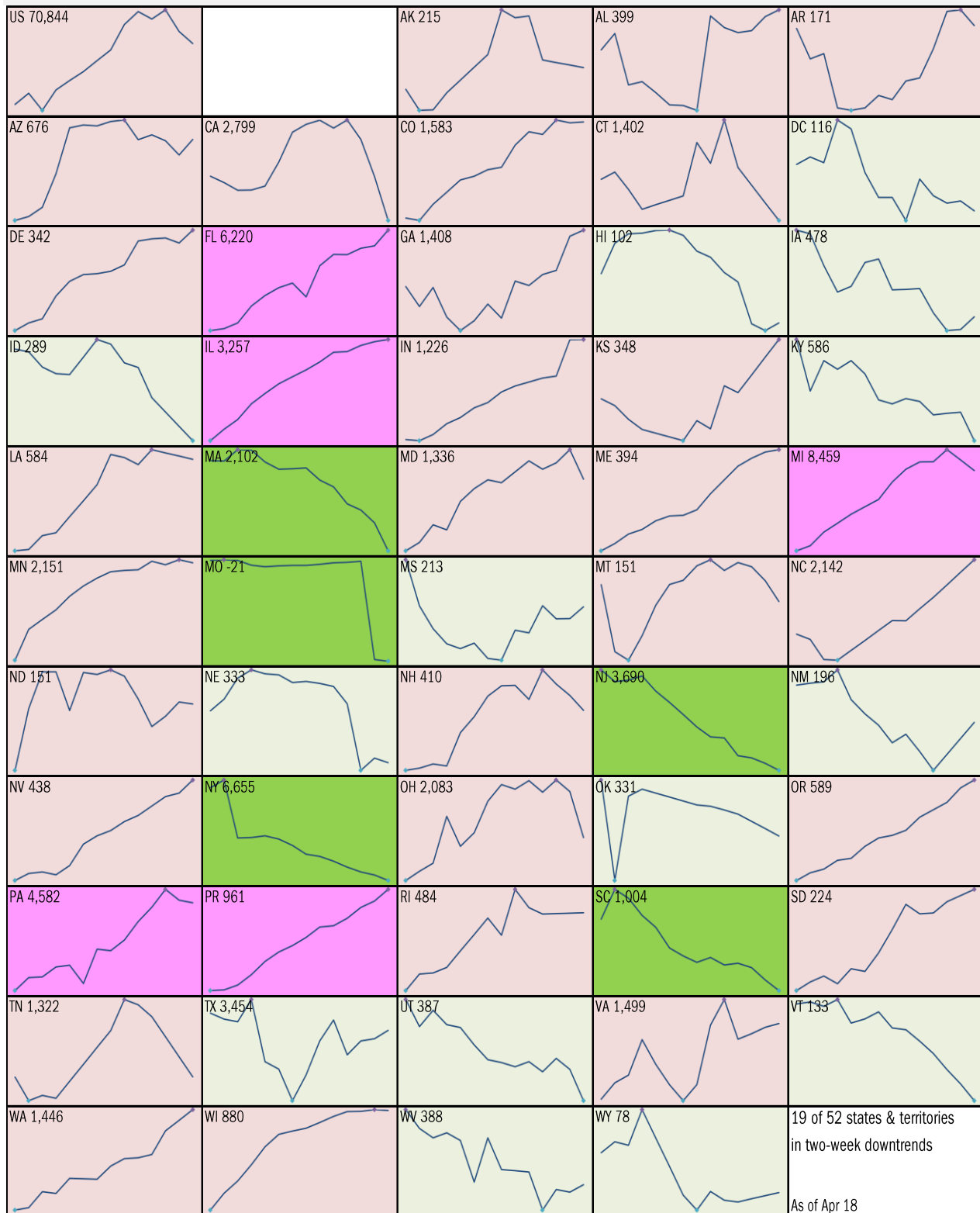


Source: [Johns Hopkins](#), TrendMacro calculations

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

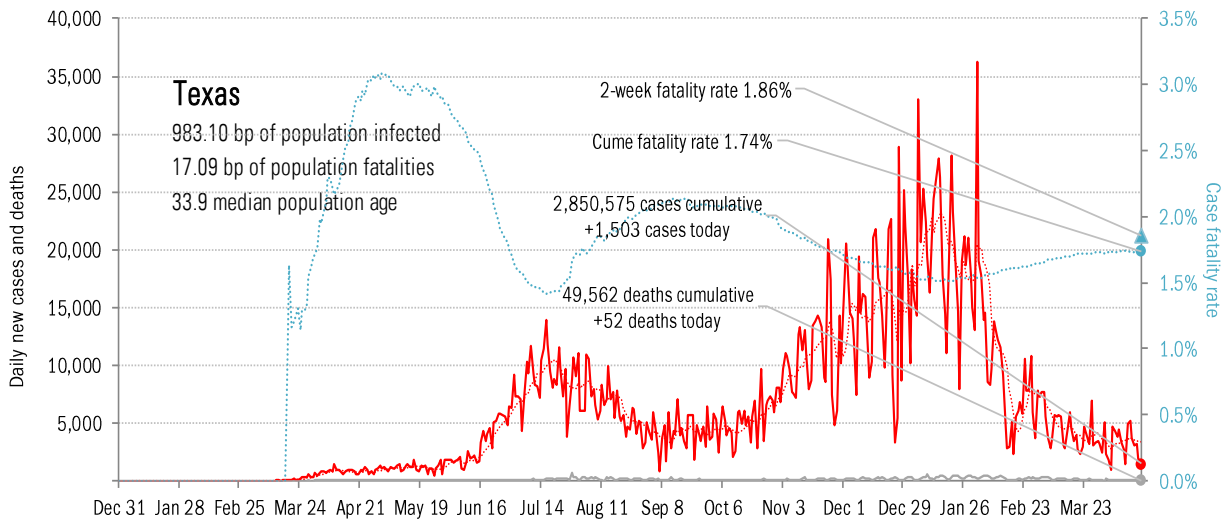
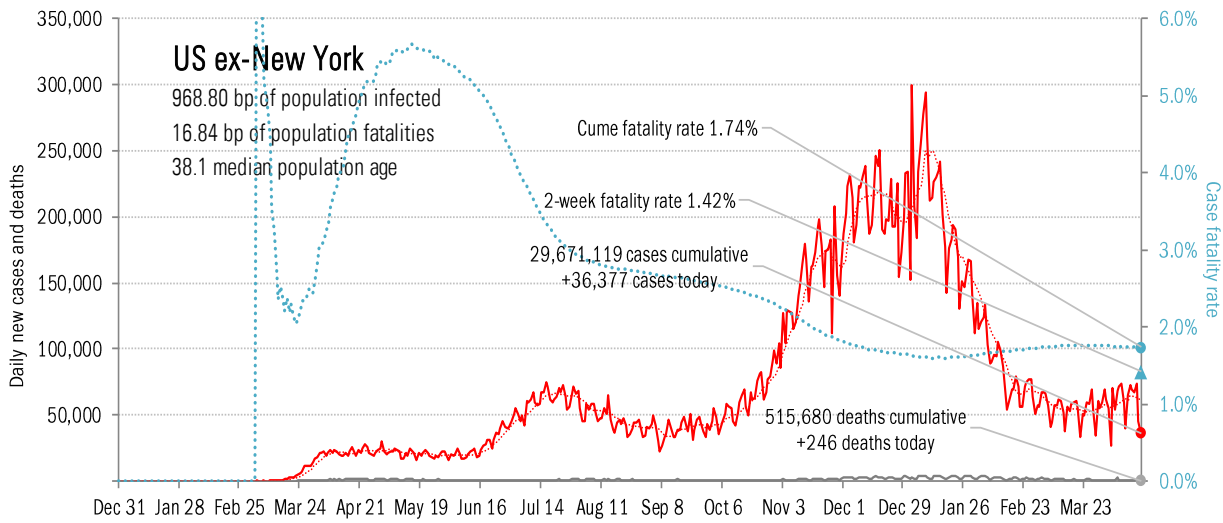
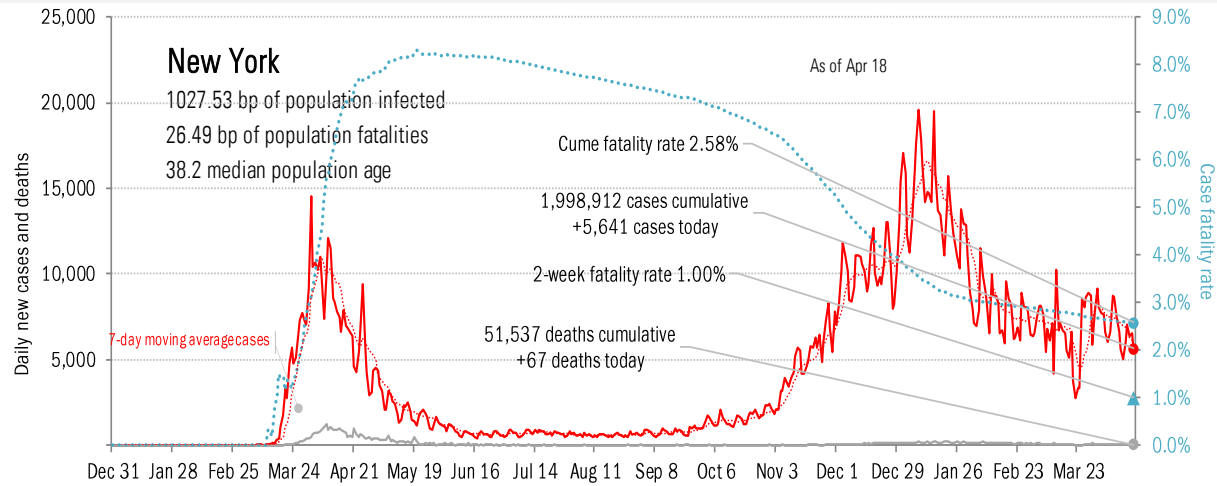
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



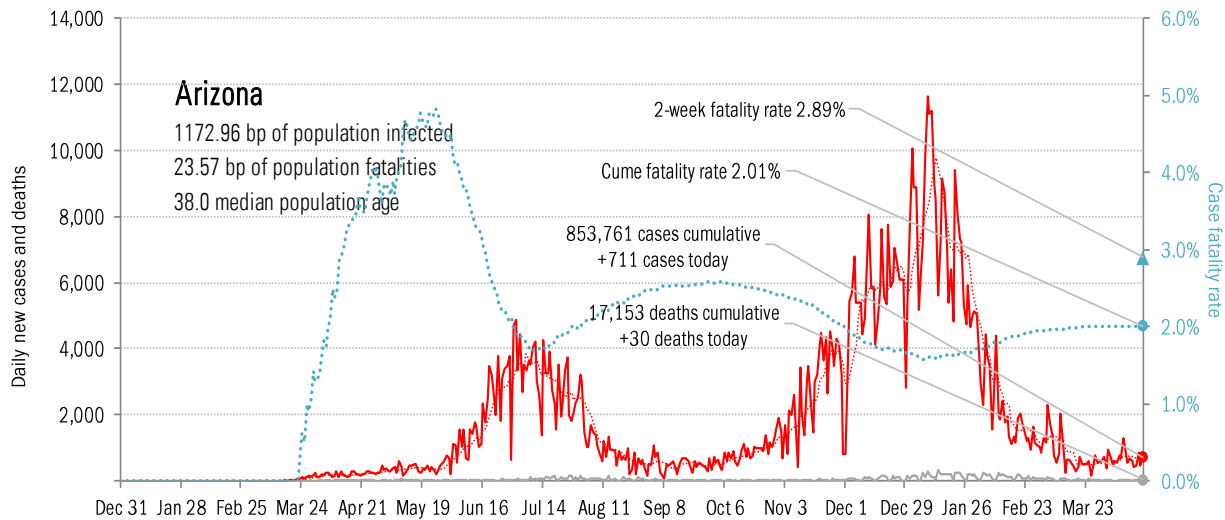
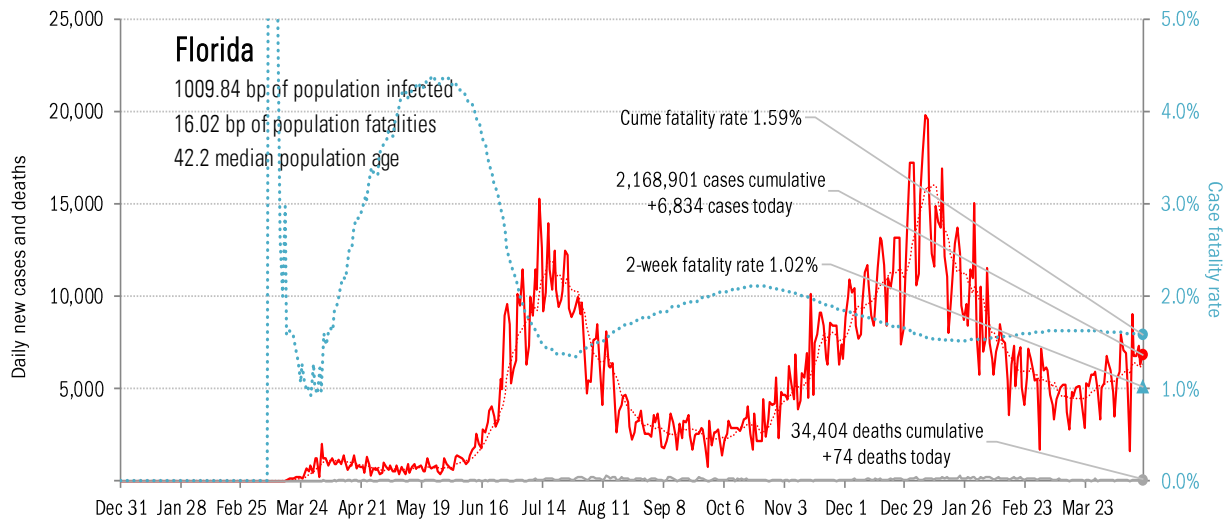
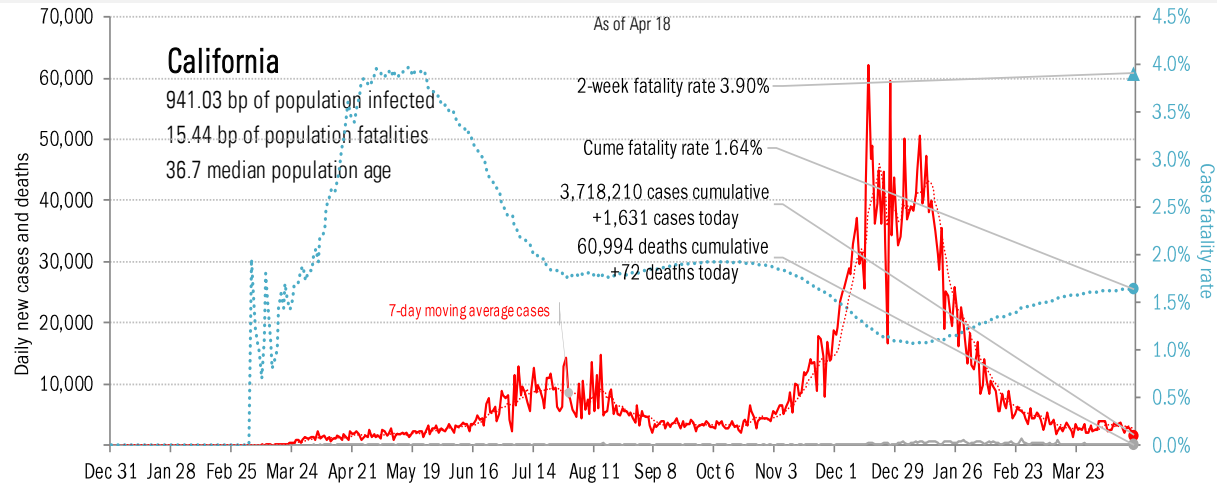
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



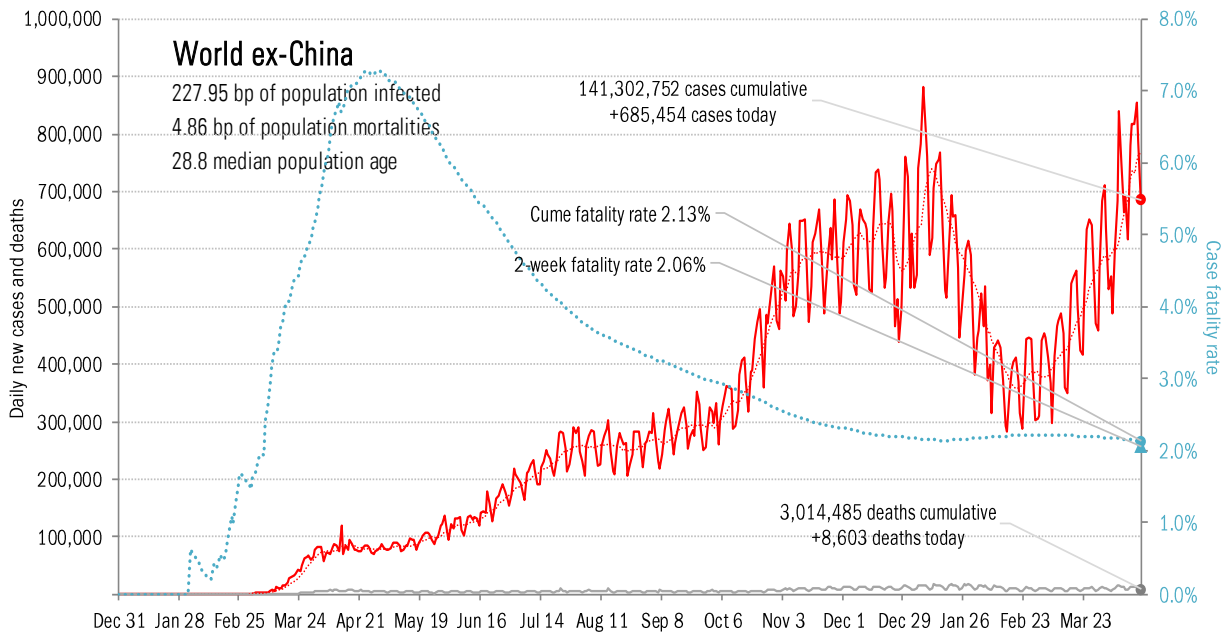
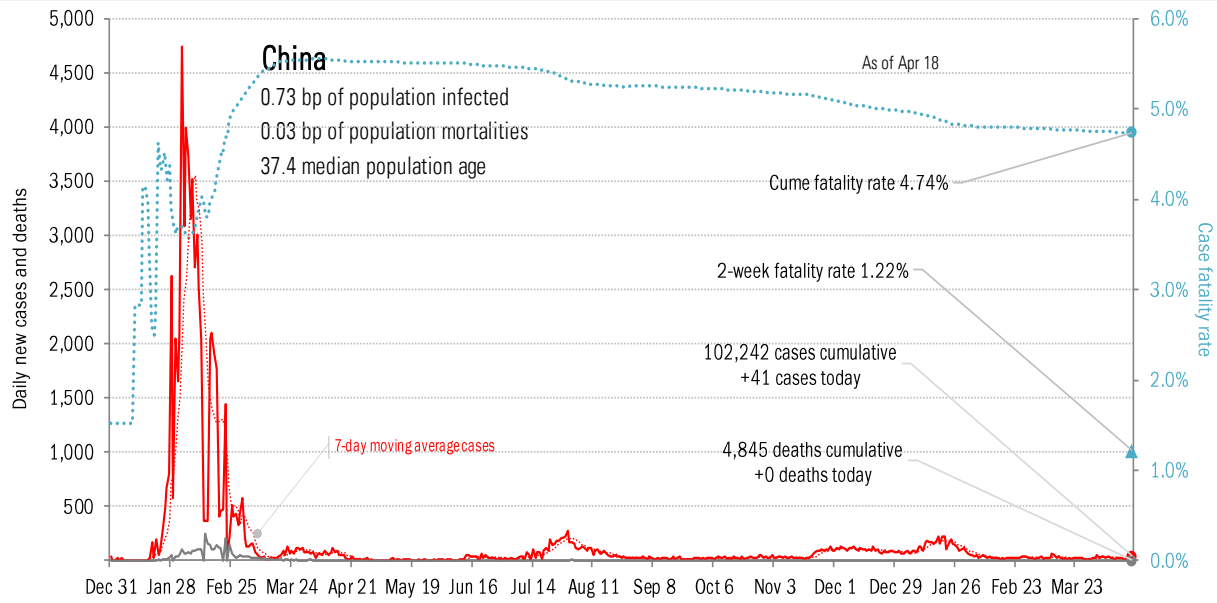
Source: [Johns Hopkins](#), TrendMacro calculations

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



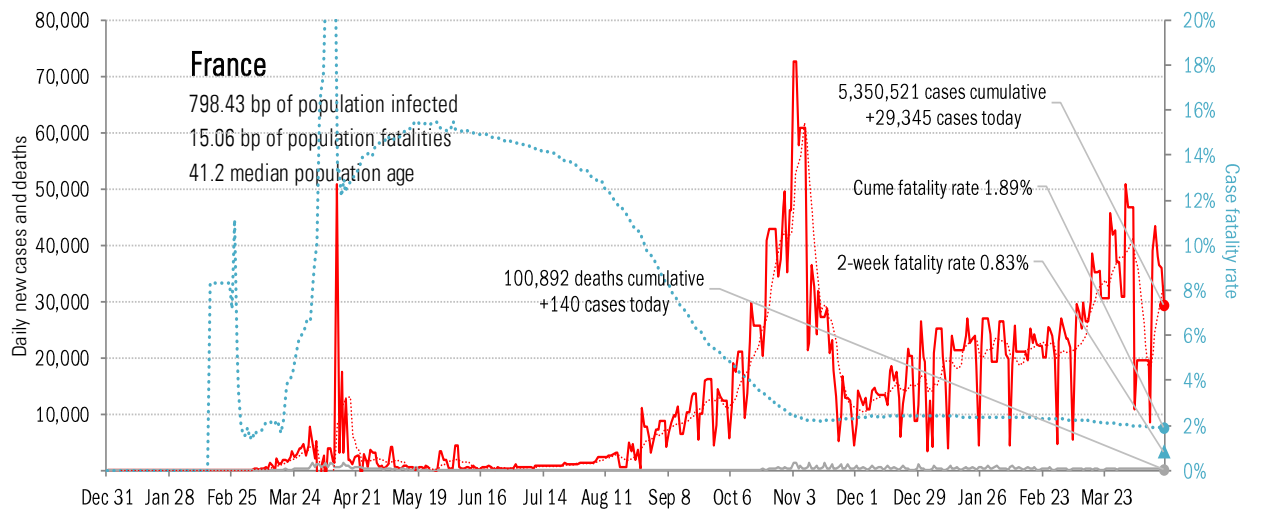
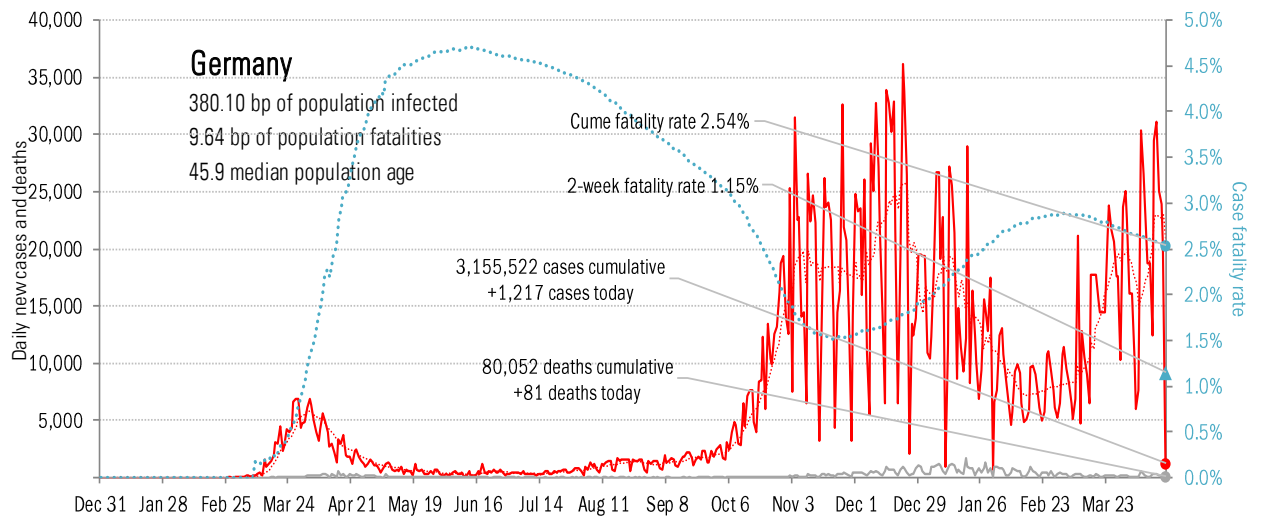
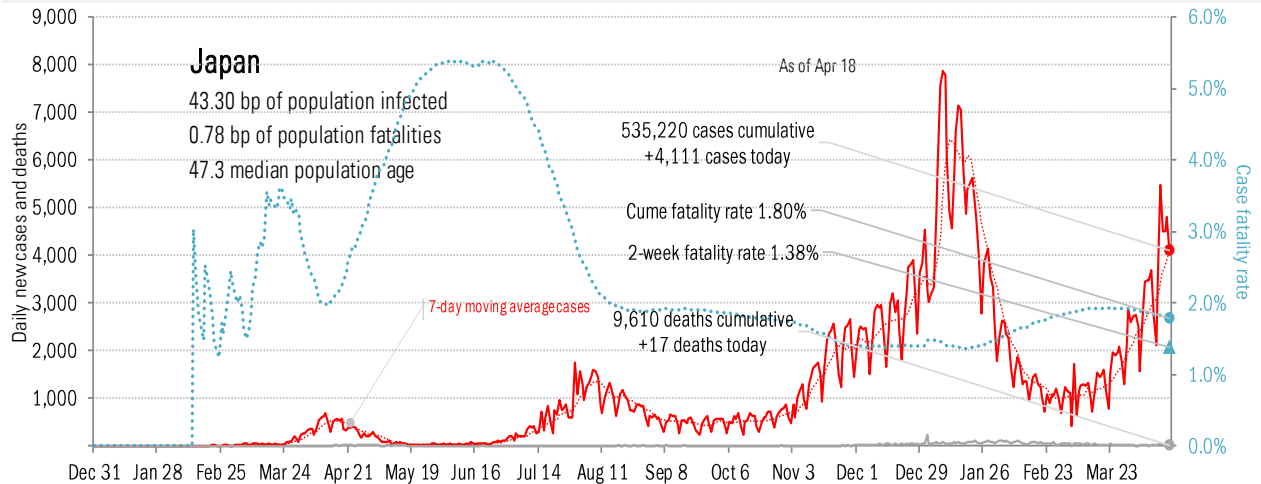
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



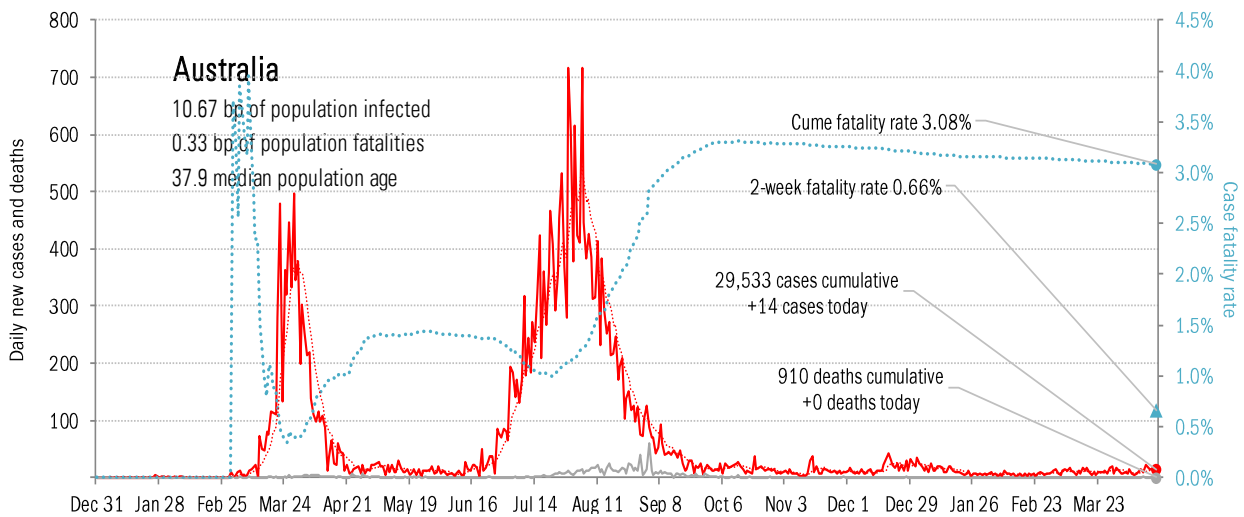
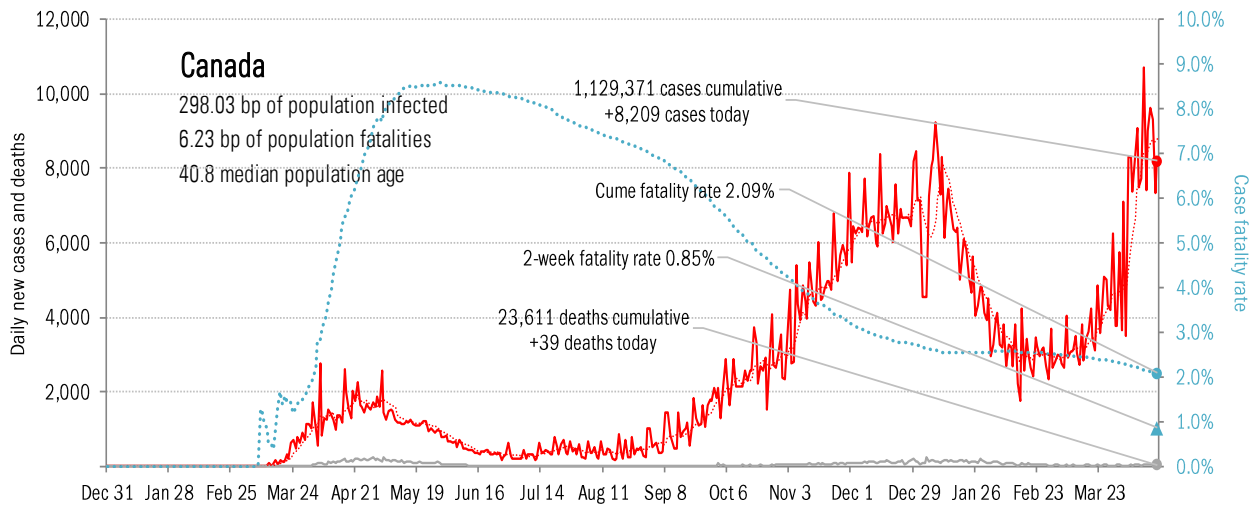
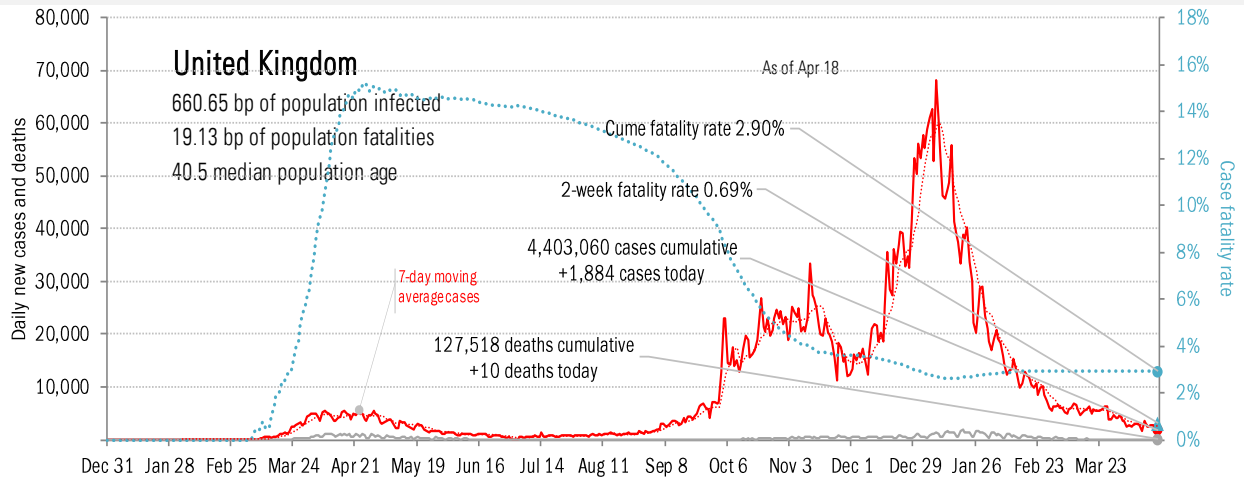
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



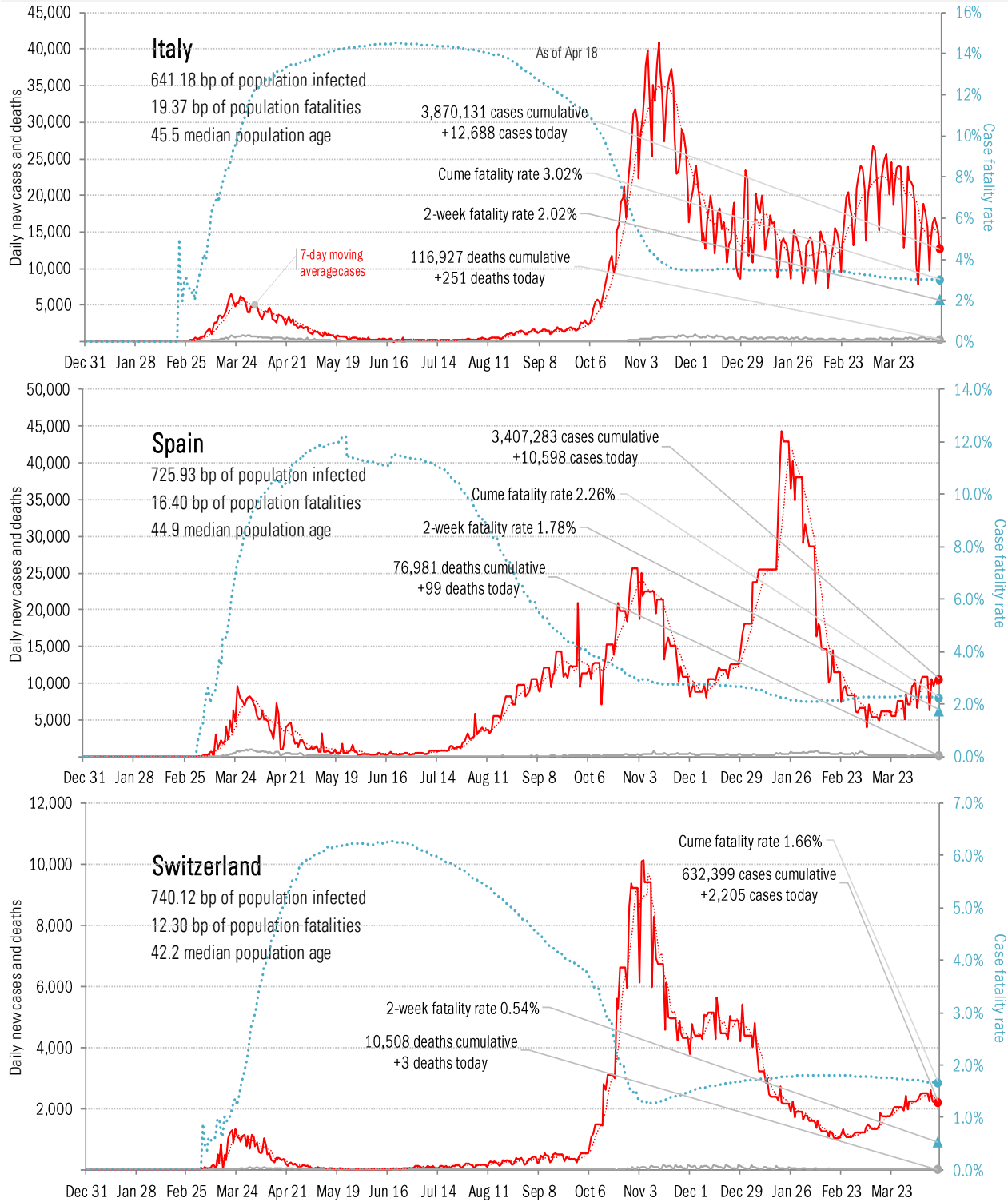
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



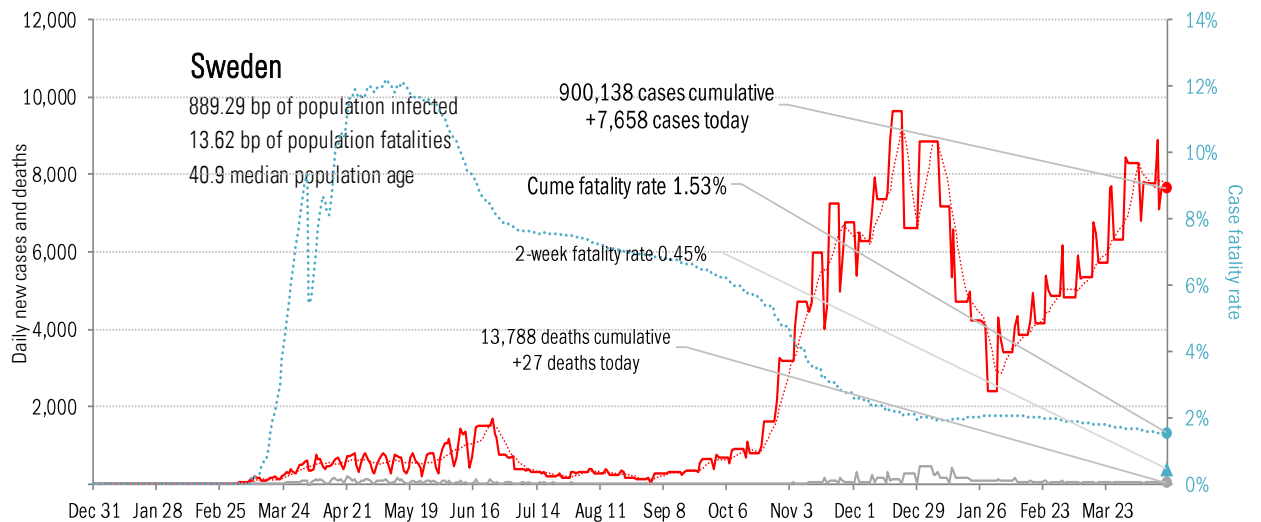
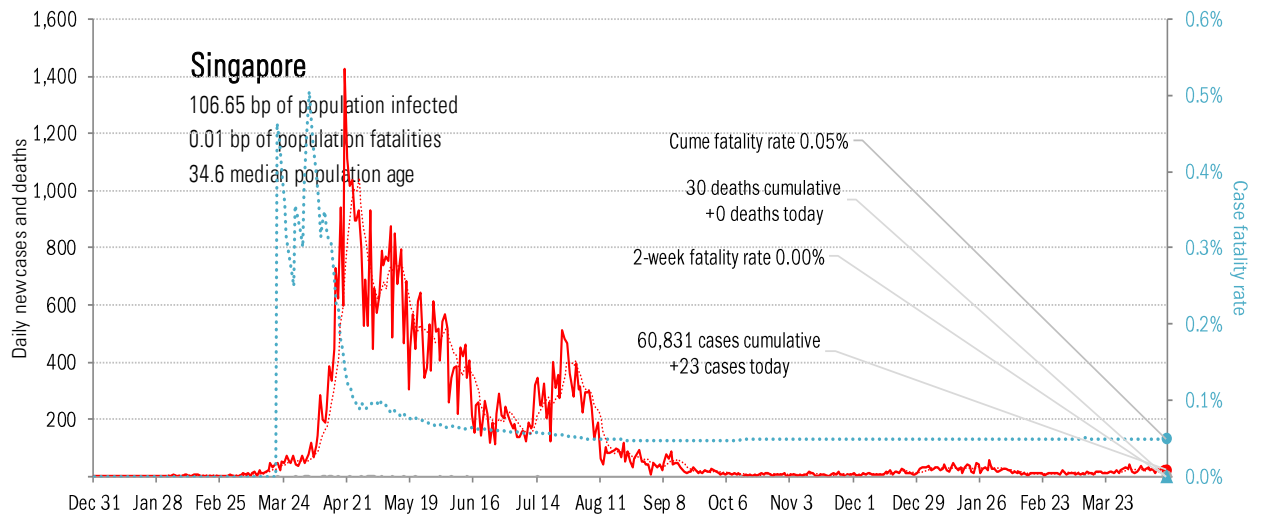
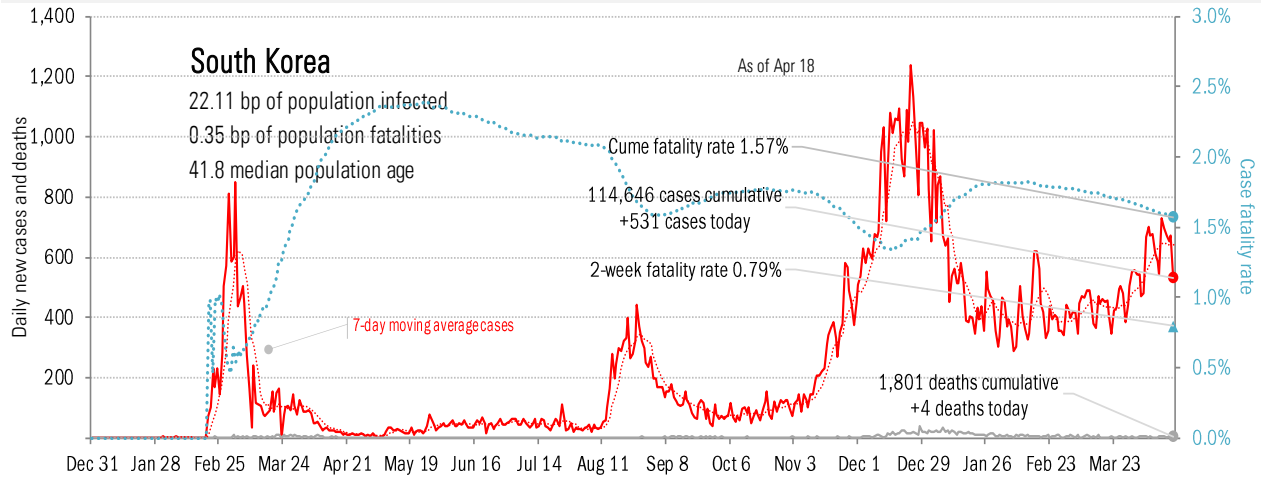
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



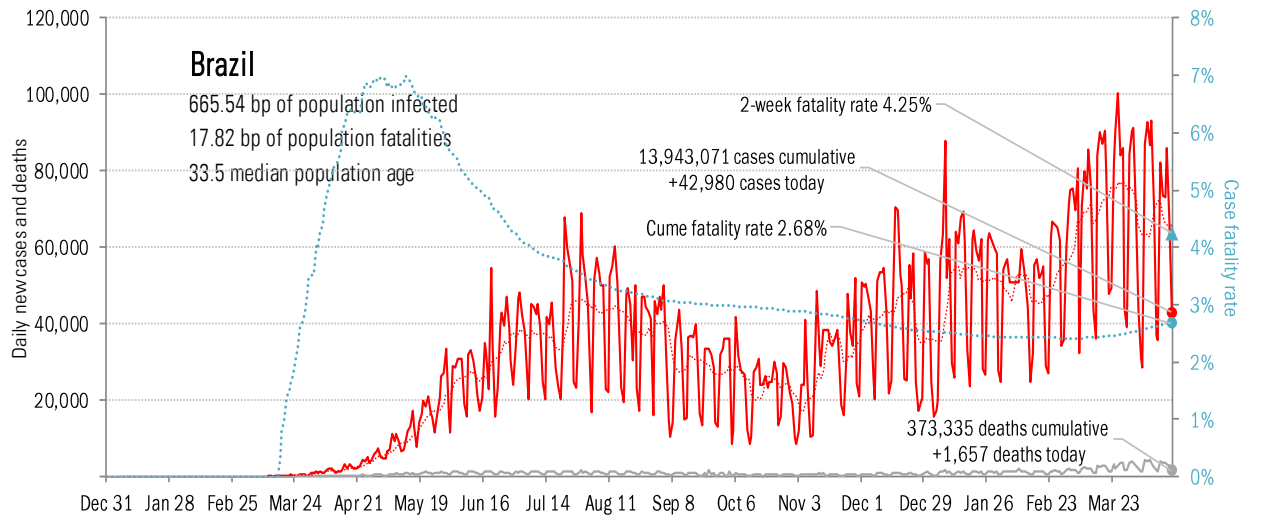
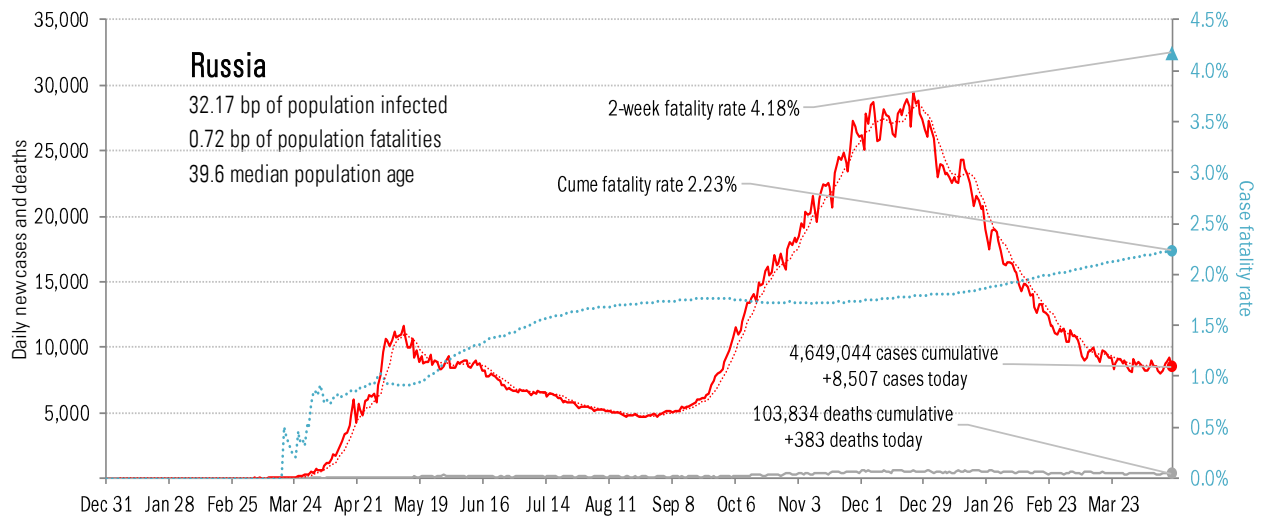
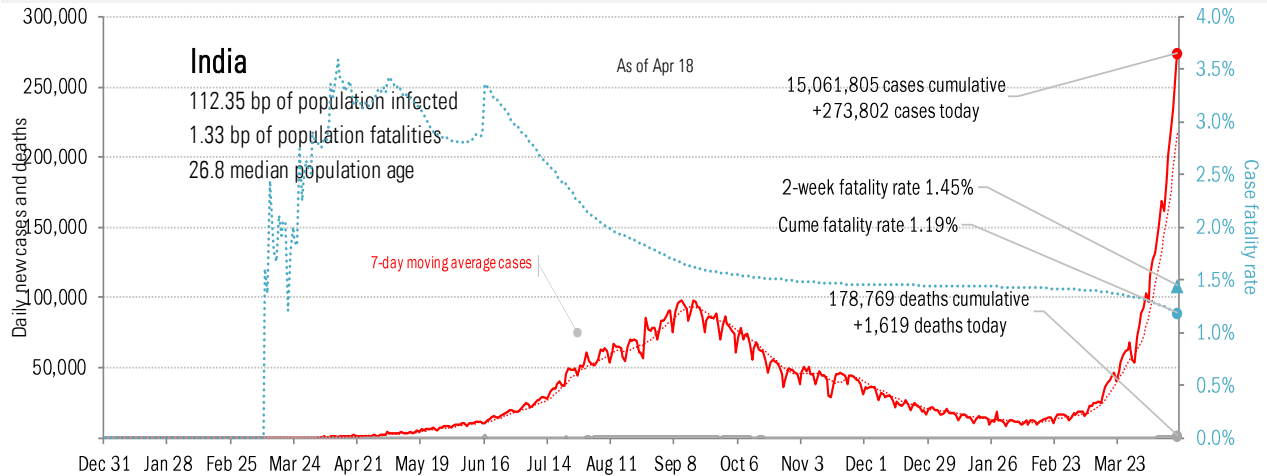
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



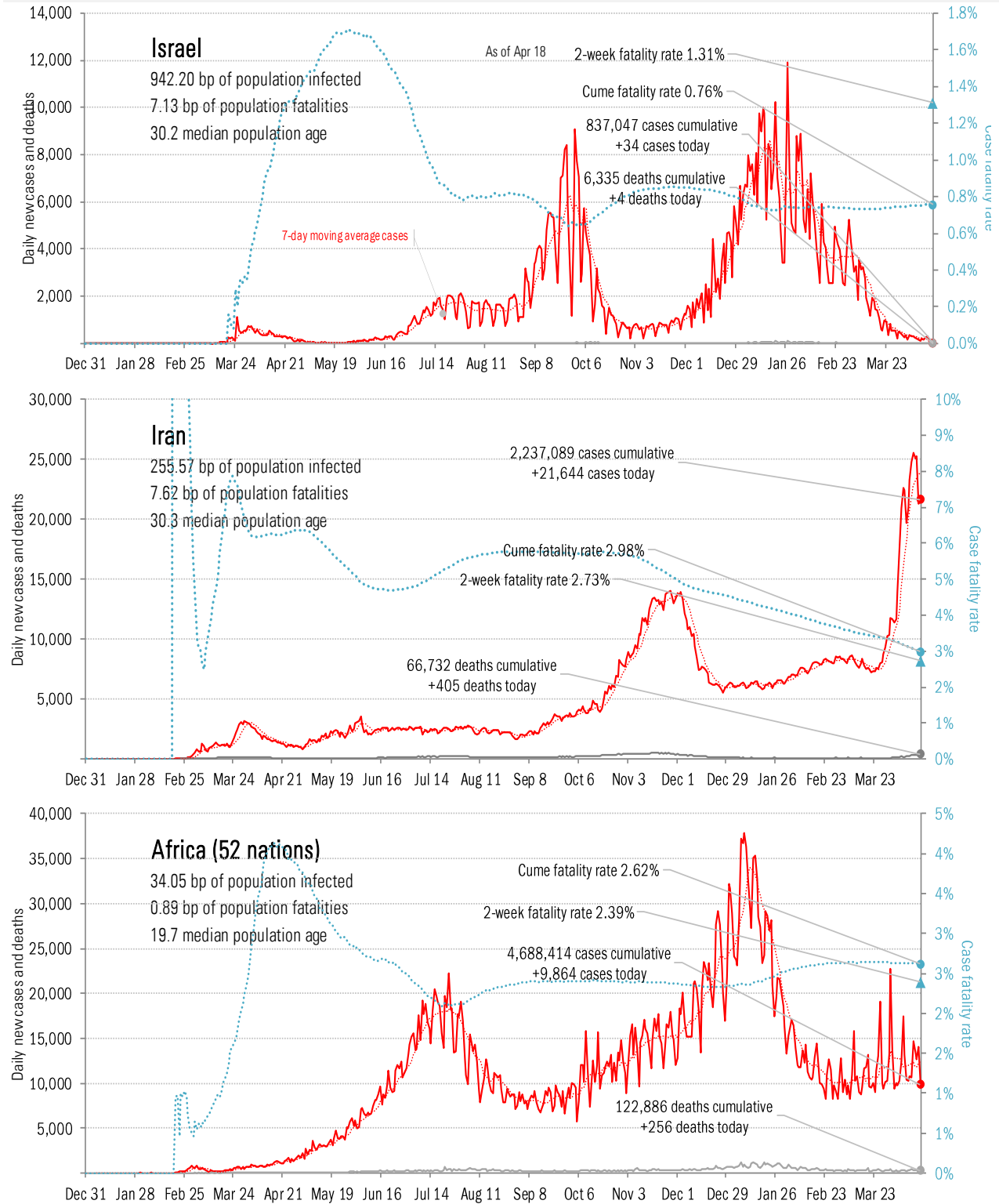
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



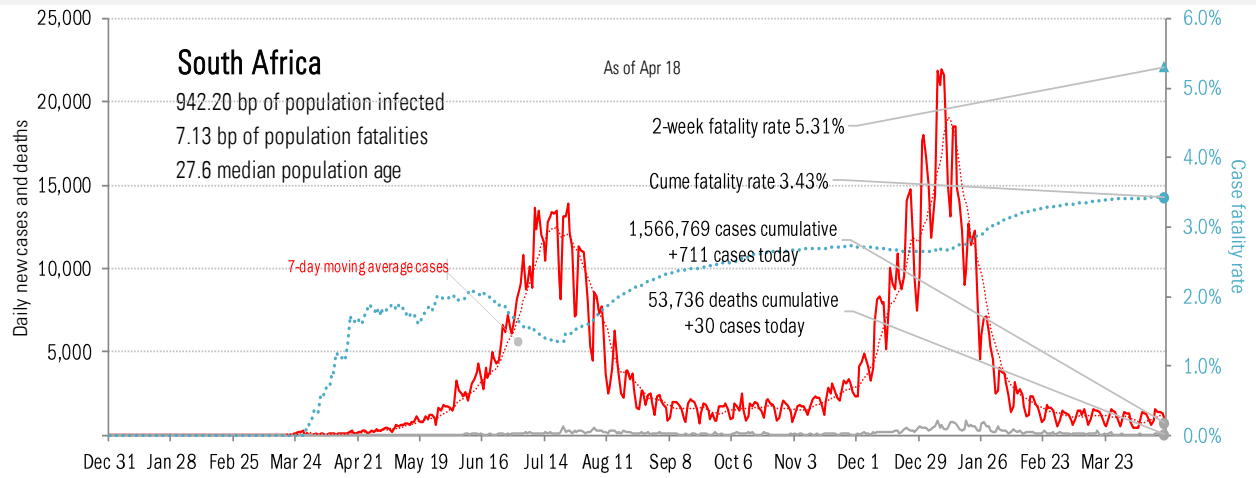
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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