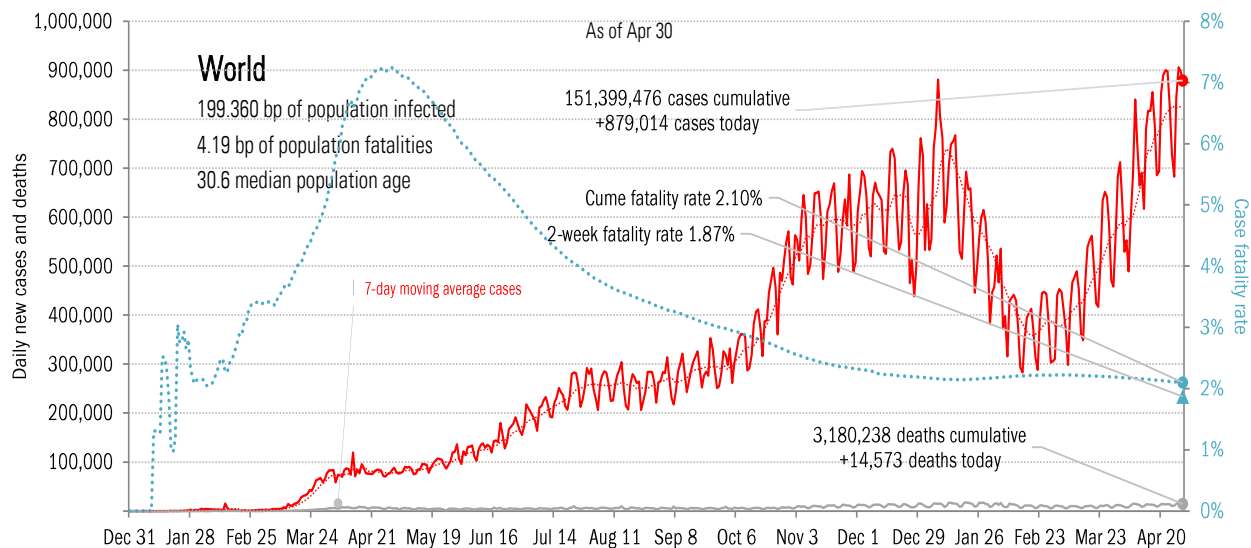
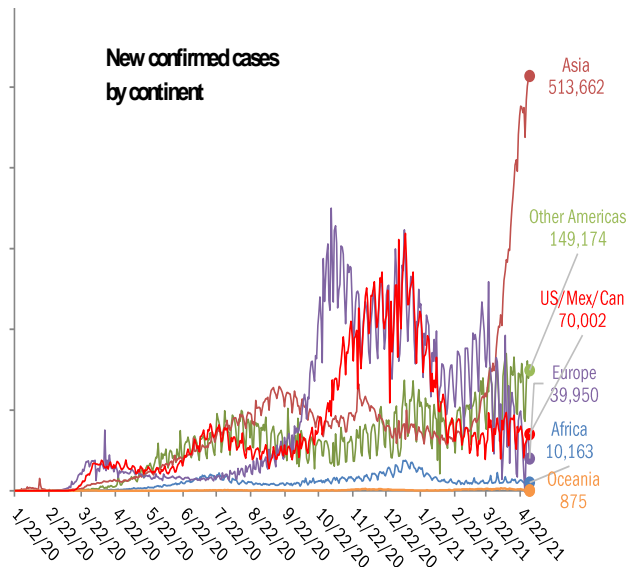


Data Insights: Covid-2019 Monitor

Saturday, May 1, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+401,993	India	+3,523
Brazil	+68,333	Brazil	+2,595
United States	+57,922	United States	+1,038
Turkey	+31,891	Peru	+735
France	+24,302	Colombia	+490
Argentina	+22,420	Mexico	+460
Iran	+19,272	Poland	+429
Colombia	+17,790	Iran	+407
Peru	+16,106	Turkey	+394
Germany	+14,326	Russia	+388
+674,355		+10,459	
World	+879,014	World	+14,573
Top ten	77%	Top ten	72%



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

For more information contact us:

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

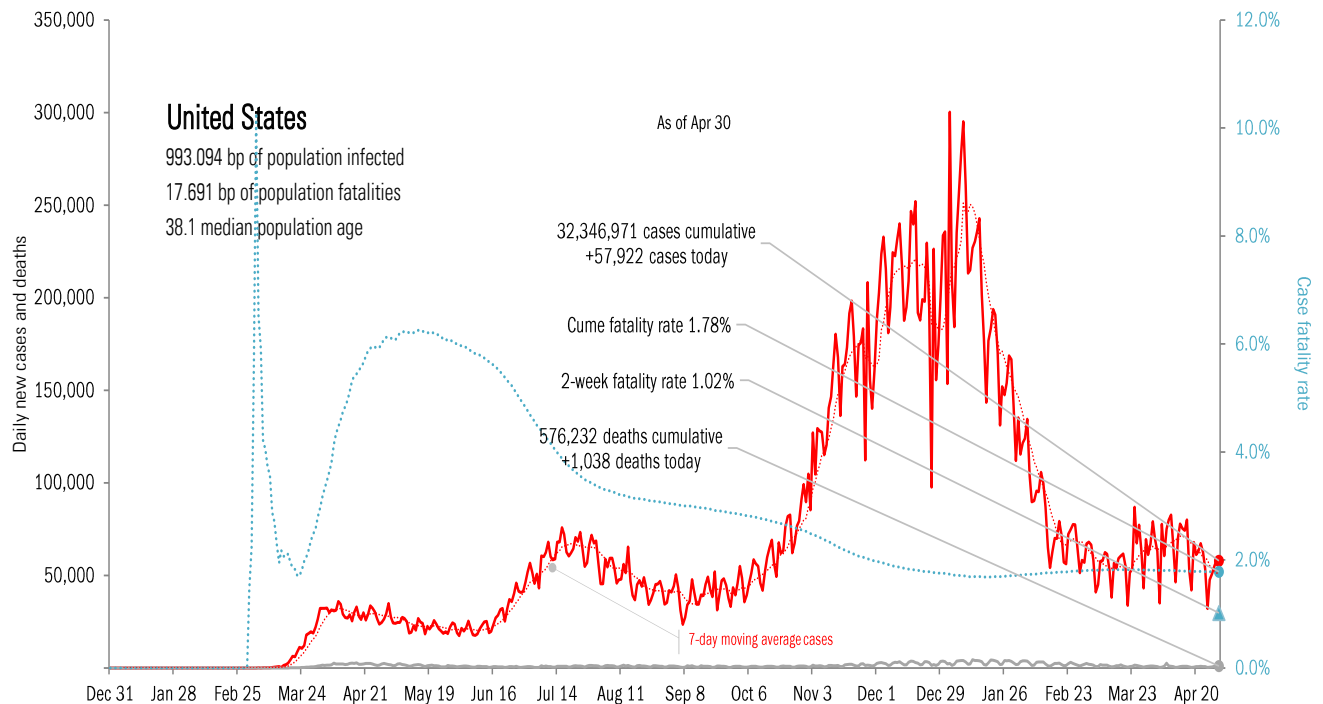
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
FL	+5,306		CA	+406		LA	+90		CA	3,742,115		CA	62,078		TX	237,970		R	90%	MI	32%
PA	+4,415		FL	+77		CR	+80		TX	2,893,928		NY	52,258		CA	230,531		MA	84%	MD	23%
MI	+3,863		TX	+55		CO	+39		FL	2,233,518		TX	50,219		FL	167,867		PA	83%	MN	20%
NY	+3,805		NY	+49		GA	+30		NY	2,048,150		FL	35,161		NY	128,701		MI	82%	RI	19%
TX	+3,671		IL	+39		KY	+30		IL	1,334,955		PA	26,192	#N/A	0	MO	82%	ME	18%		
IL	+3,208		MI	+37		IN	+27		PA	1,152,536		NJ	25,554		GA	184,955		CT	82%	CO	18%
NC	+2,231		GA	+32		MO	+25		GA	1,100,187		IL	24,291		CH	81,655		MD	81%	PA	17%
CA	+2,077		PA	+32		AR	+21		CH	1,072,312		GA	20,190		IL	75,949		FL	79%	WA	16%
MN	+1,874		MD	+26		NV	+21		NJ	997,223		CH	19,188		KY	72,005		GA	79%	NY	14%
NJ	+1,858		NJ	+25		NM	+16		NC	969,752		MI	18,753		MI	65,522		NC	78%	GA	14%
+32,308			+778			+379			17,544,676			333,884			1,245,155						
All states	+57,922			+1,038			-159		All states	32,346,971			576,232			2,219,565		All states	70%		67%
Top ten	56%			75%			-238%		Top ten	54%			58%			56%		Median	73%		10%

Some states not reporting

Five most improved US states

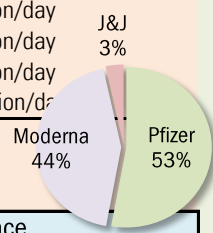
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CO	-1,017	MI	-79	FL	-96	RI	+85 bp
NJ	-384	GA	-28	AZ	-61	ME	+84 bp
FL	-360	SC	-21	PA	-47	VA	+74 bp
MI	-334	NY	-20	CA	-42	NY	+73 bp
FR	-247	PA	-16	CH	-30	WI	+73 bp



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
320.64 million doses distributed	+3.37 million/day	US	30.3%	43.3%
248.37 million doses administered	+2.85 million/day	UK	21.4%	50.4%
149.07 million persons partially immunized	+1.12 million/day	France	9.3%	22.4%
104.81 million persons fully immunized	+1.77 million/day	Spain	10.0%	25.2%
7.80 million shots long-term care residents/staff	+0.002 million/day	Germany	7.6%	26.7%
		Italy	9.9%	23.2%
		Australia	1.4%	0.6%
		Israel	58.8%	62.4%
		Canada	2.9%	32.7%
		Japan	0.8%	2.0%
		Africa	0.4%	1.0%
		India	1.9%	9.1%
		Brazil	6.4%	13.7%



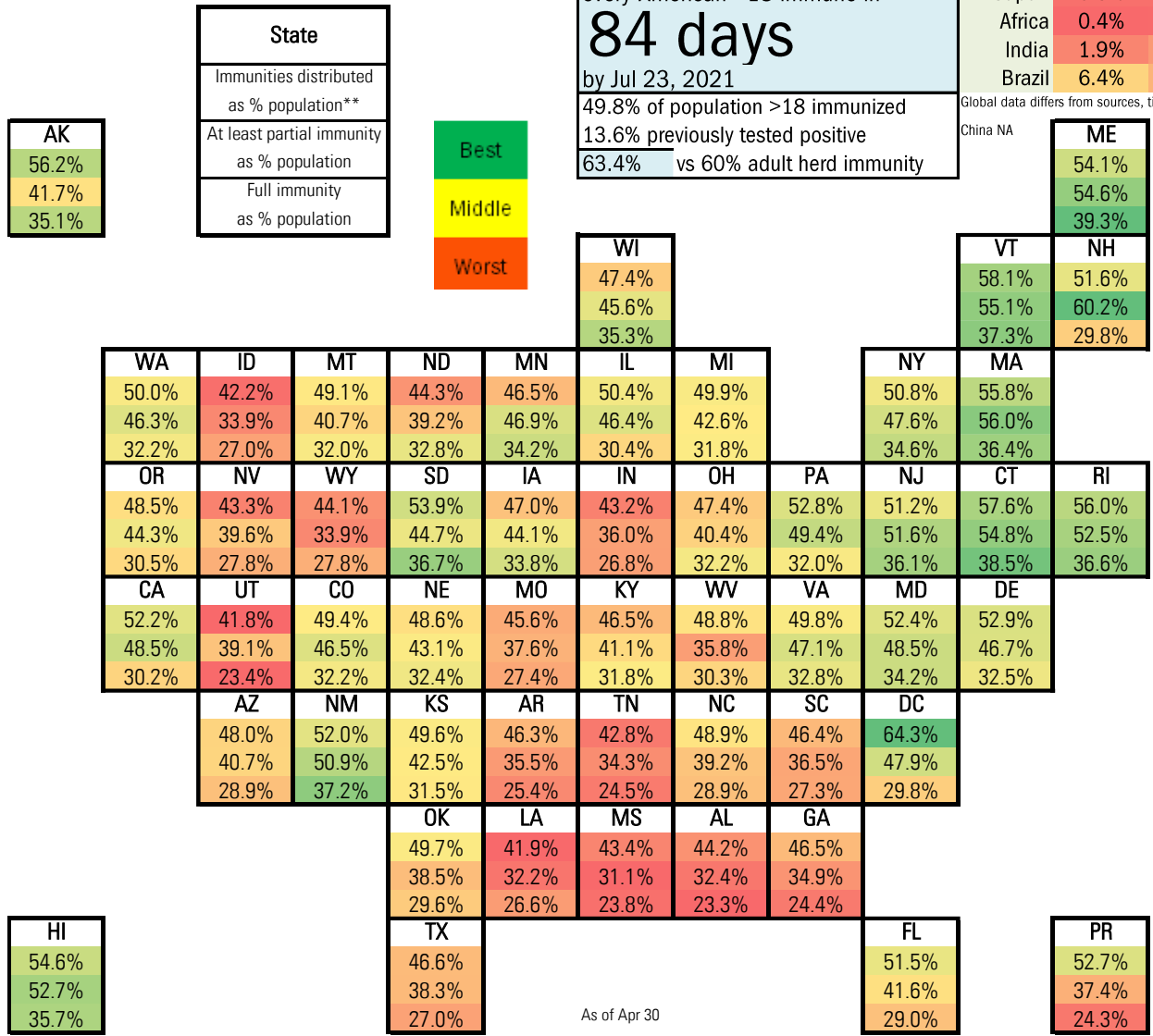
77.5% of distributed doses administered
 44.6% of US pop partial
 100% of LTC partial

31.4% full immunity
 64.1% full immunity

At today's dosing pace,
 every American >18 immune in
84 days
 by Jul 23, 2021

49.8% of population >18 immunized
 13.6% previously tested positive
 63.4% vs 60% adult herd immunity

Global data differs from sources, timing



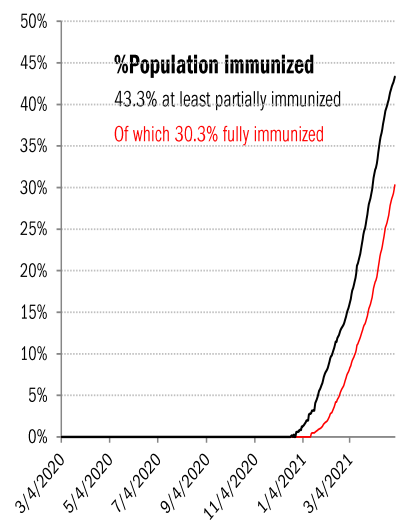
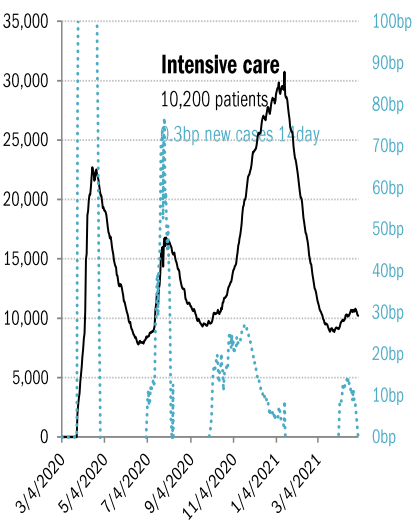
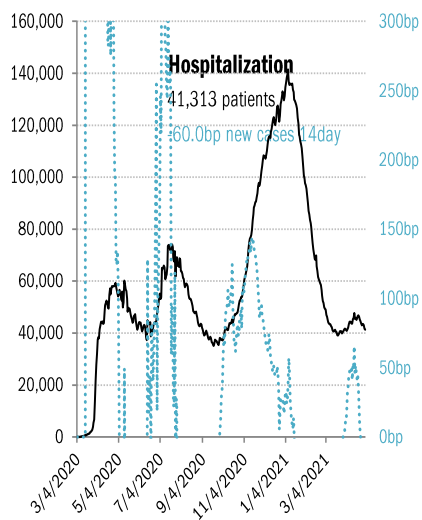
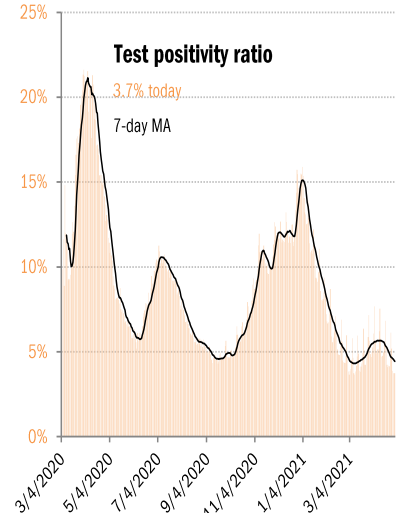
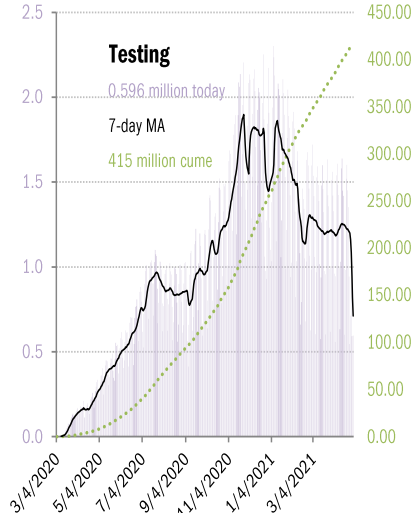
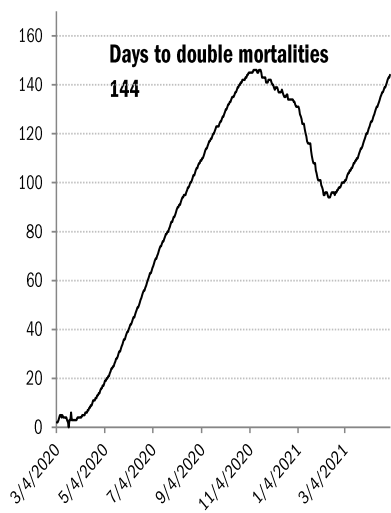
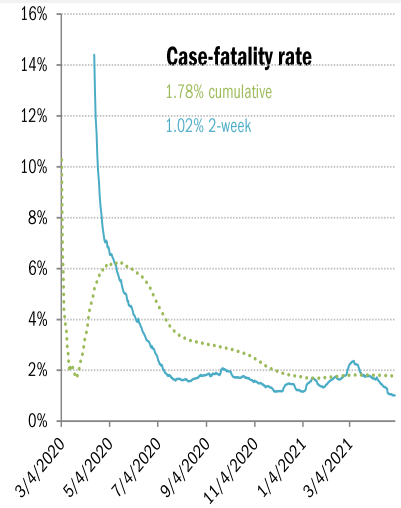
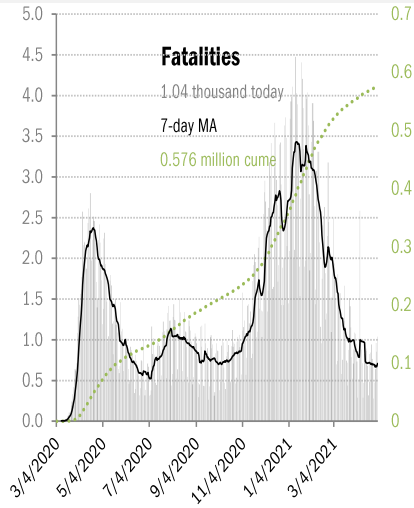
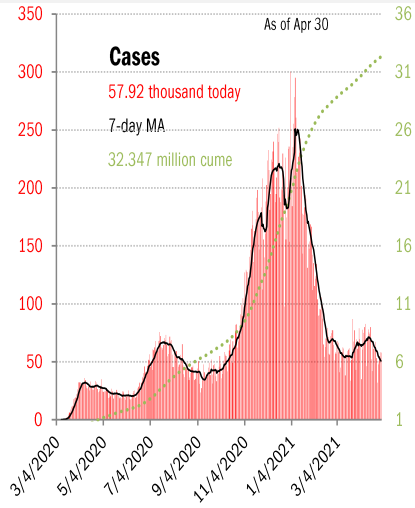
As of Apr 30

** 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

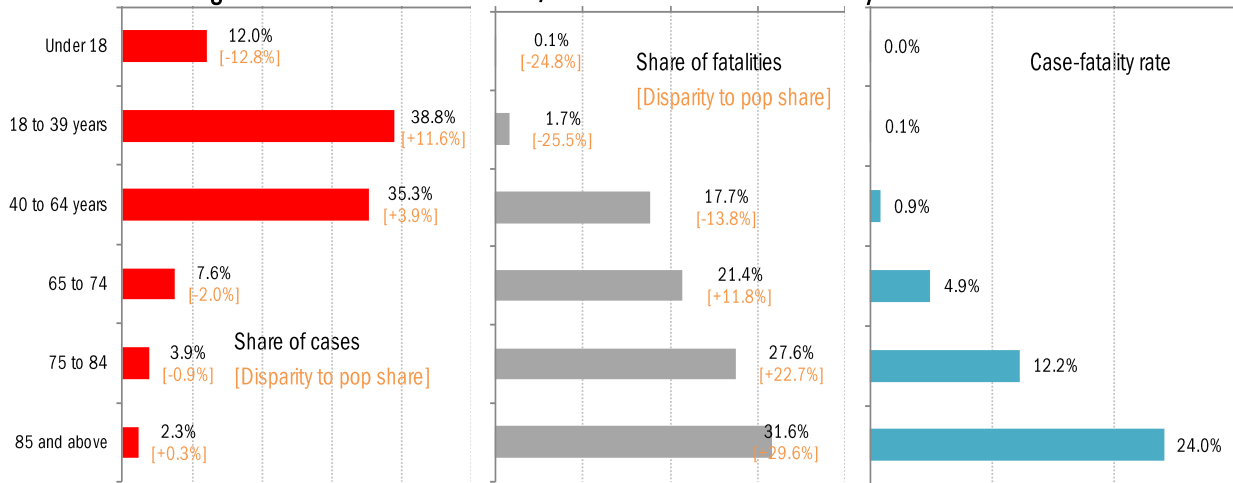
National and state-by-state data do not line up because of different sources



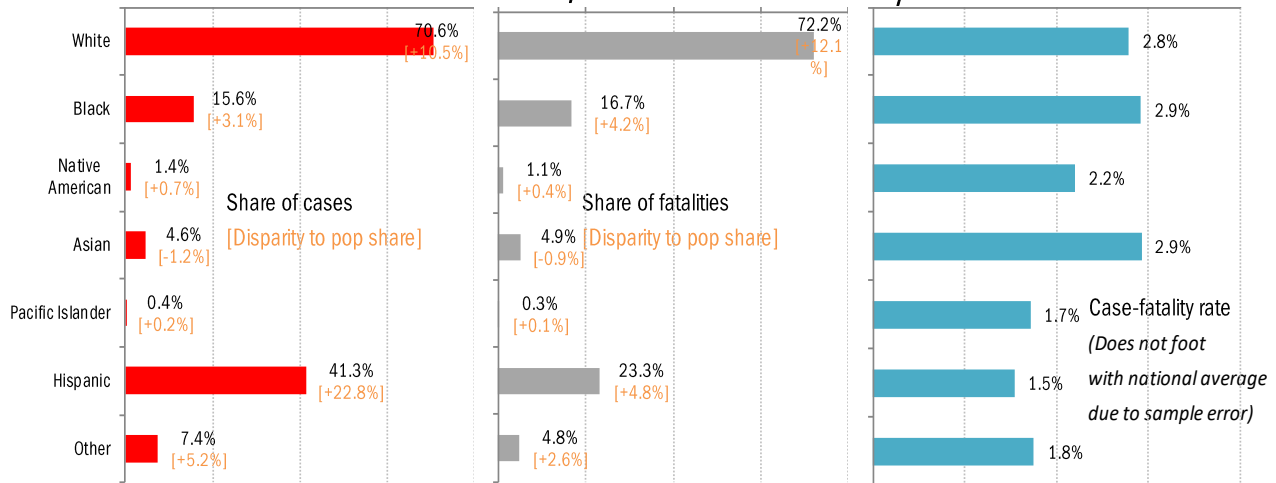
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

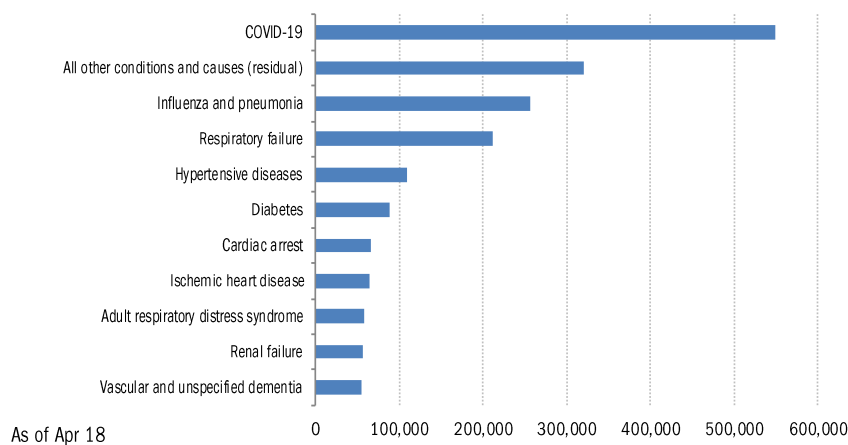


Racial distribution of US cases, fatalities and case-fatality rates



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

[The Man They Couldn't Cancel](#)

Barton Swaim
Wall Street Journal
April 30, 2021

[Saturday profile: Adar Poonawalla, India's vaccine prince](#)

The Economist
May 1, 2021

[Unmasked voters won't be allowed into polling places, Murphy says](#)

Nikita Biryukov
New Jersey Globe
April 28, 2021

[Did Emergency PPP Loans Work? Nearly \\$800 Billion Later, We Still Don't Know](#)

Scott Horsley
NPR
April 27, 2021

Meme of the day

anti-vaxxer noun

 Save Word

an·ti-vax·xer | \ ,an-tē-'vak-sər , ,an-,tī- \

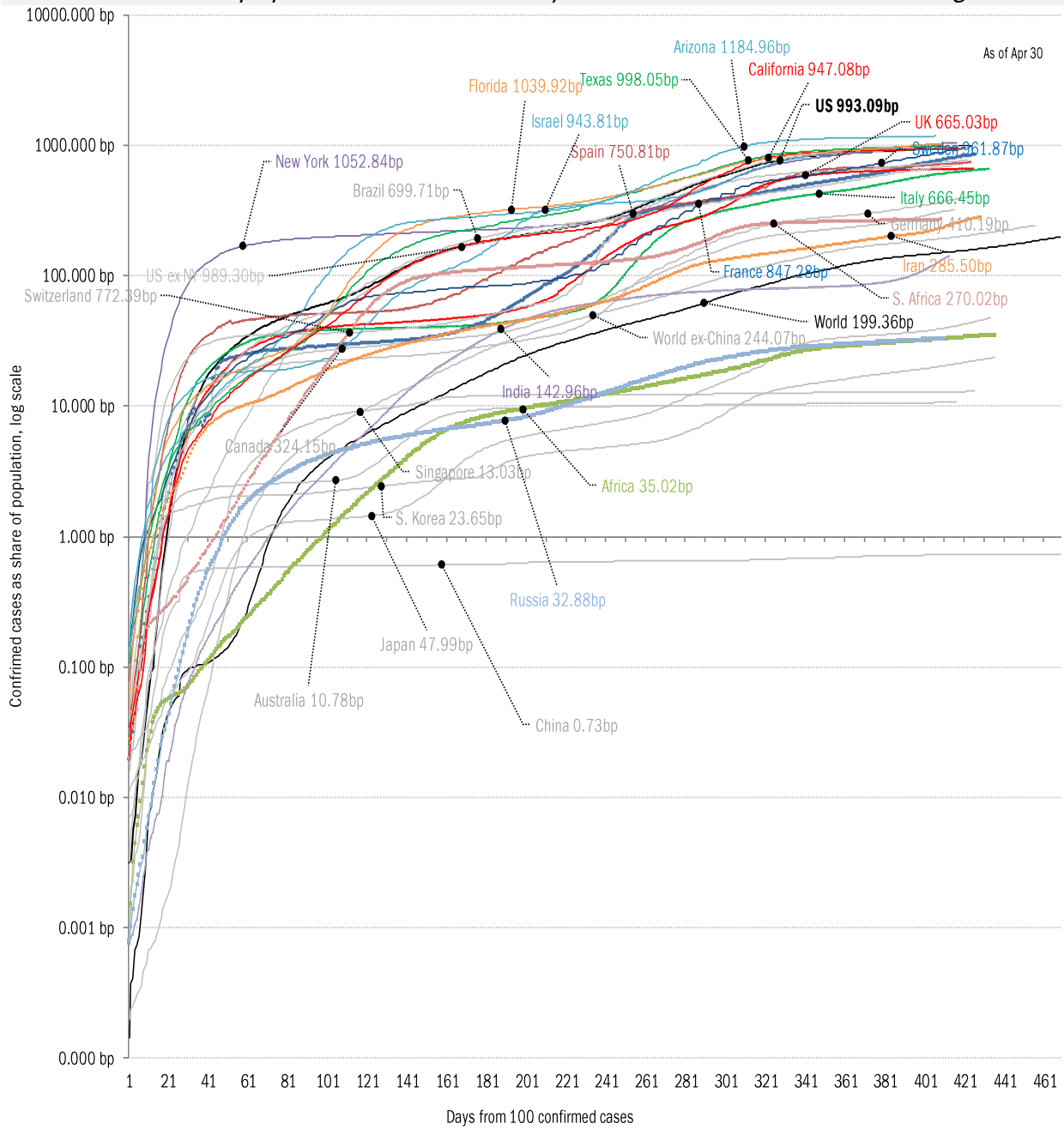
plural **anti-vaxxers**

Definition of *anti-vaxxer*

: a person who encourages or requires vaccinated people to mask or distance.

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

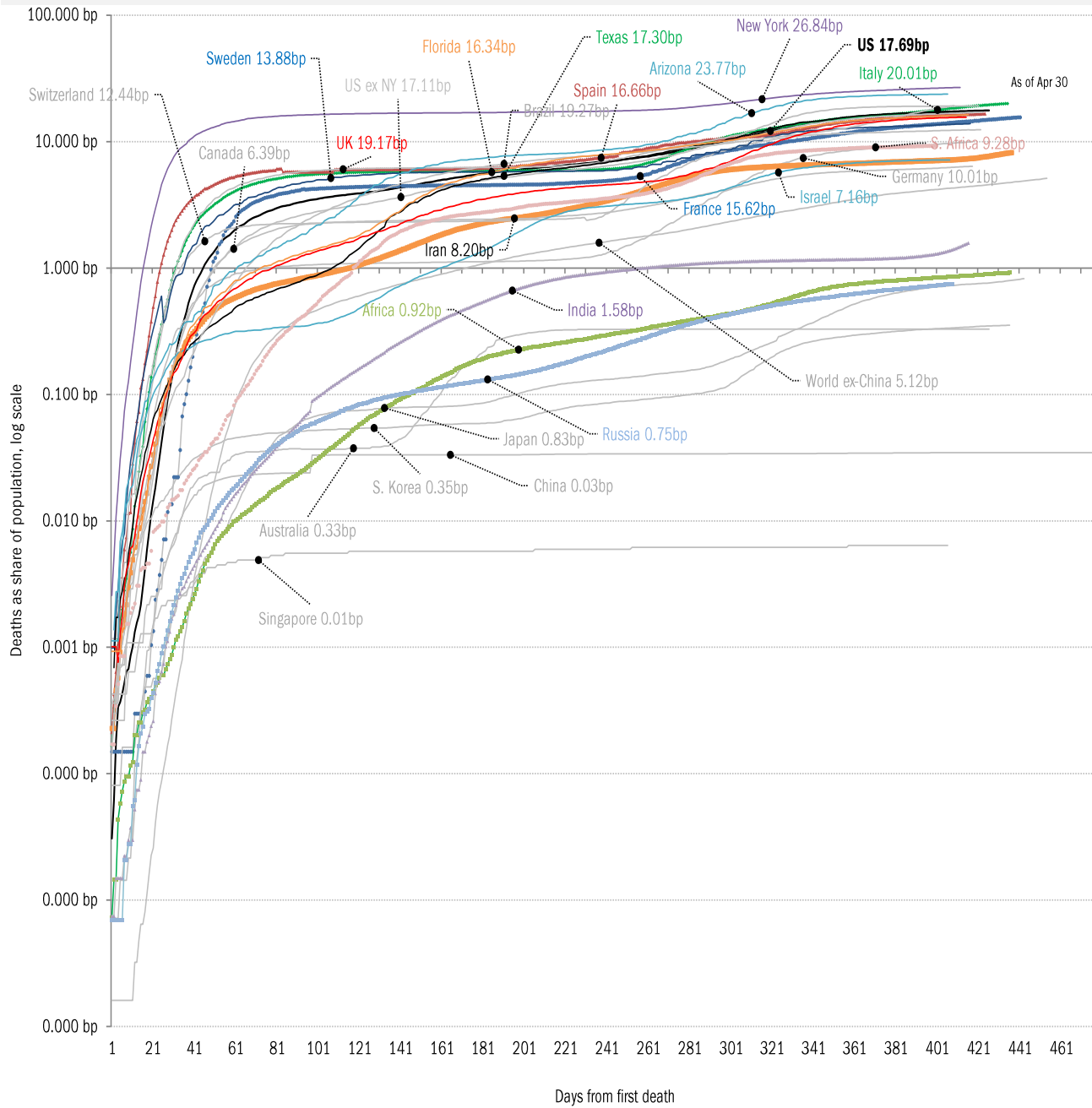
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

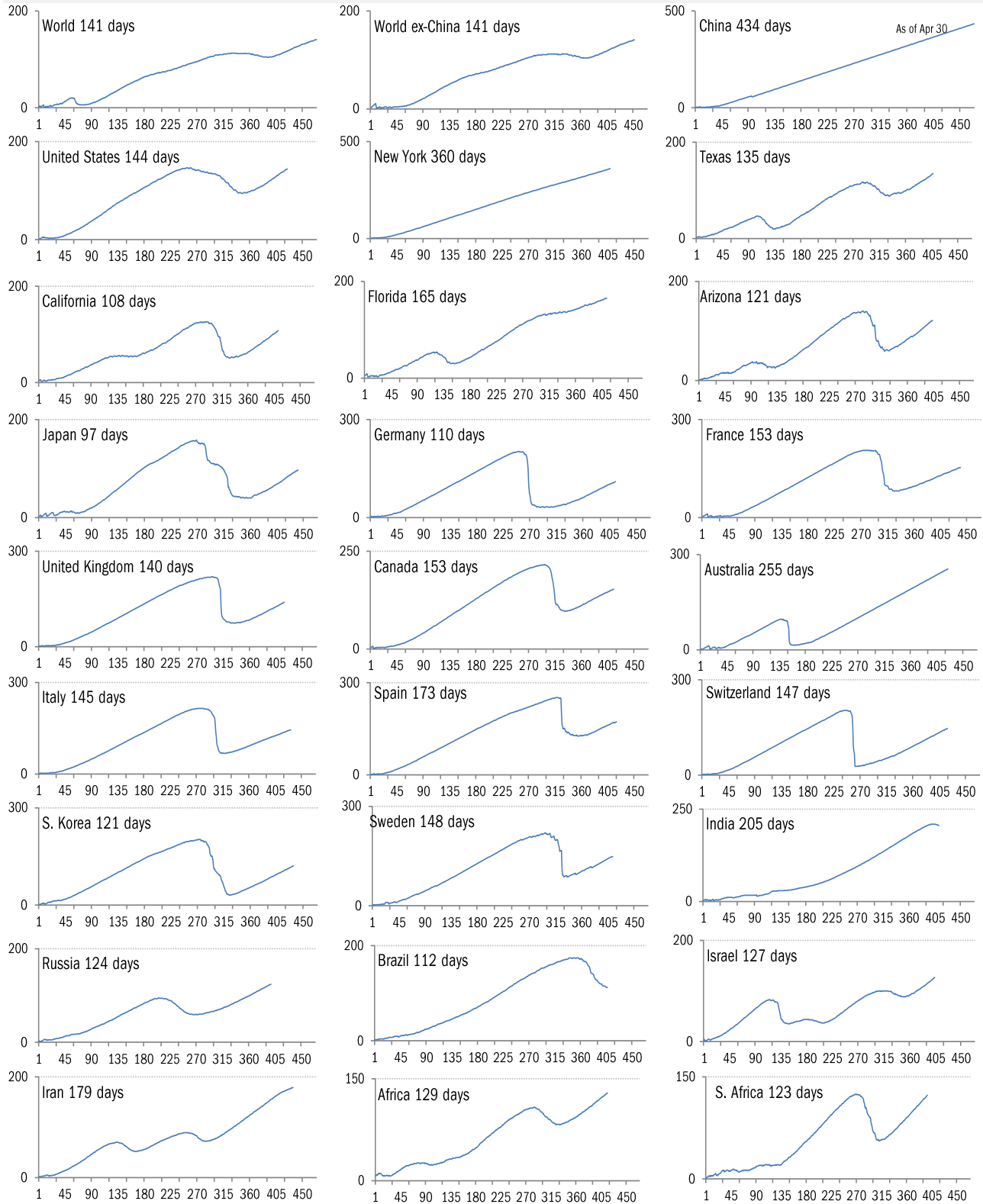


Source: [Johns Hopkins](#), TrendMacro calculations

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

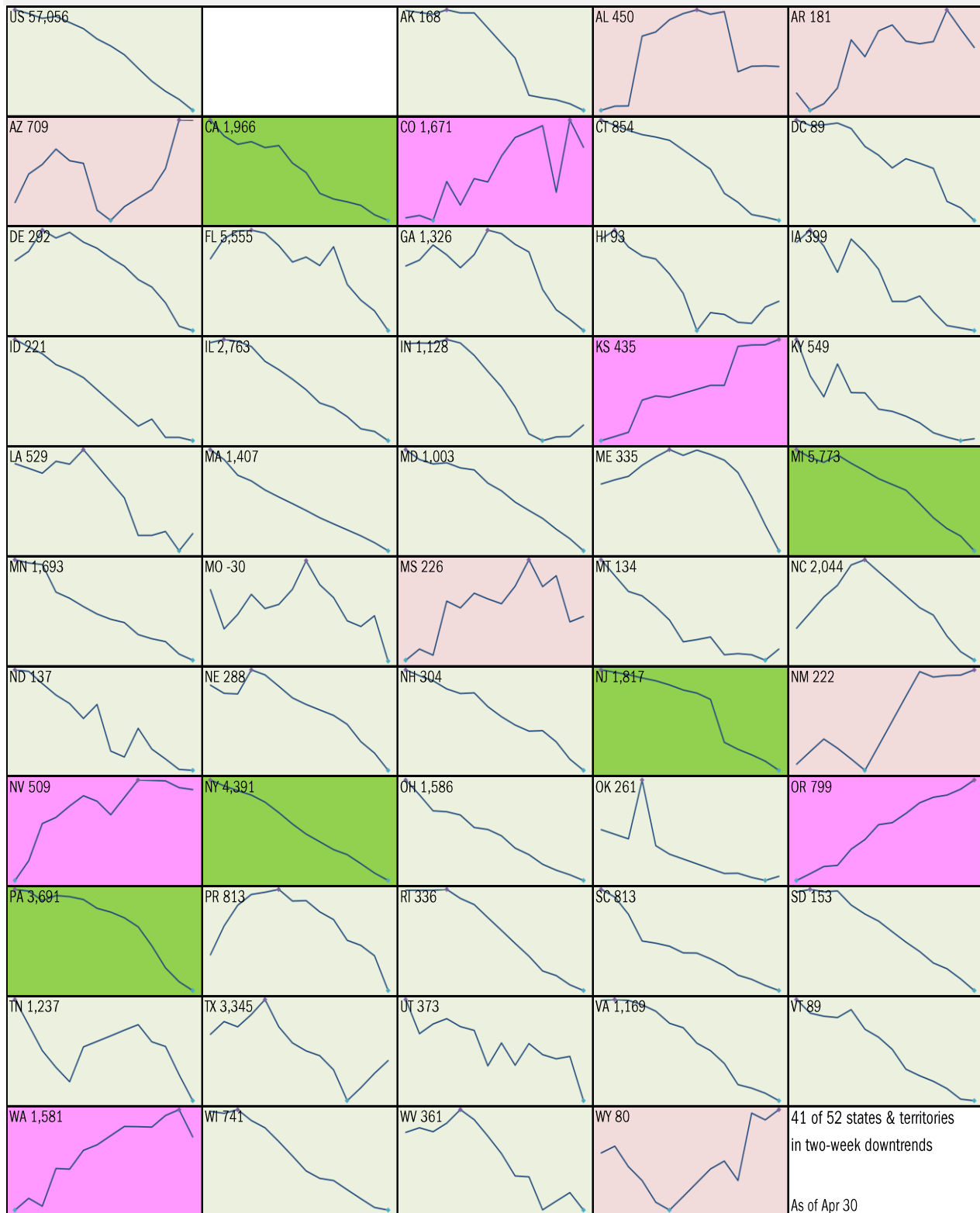
Vertical: days to double deaths Horizontal: days from first death

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread



Source: [Johns Hopkins](#), 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

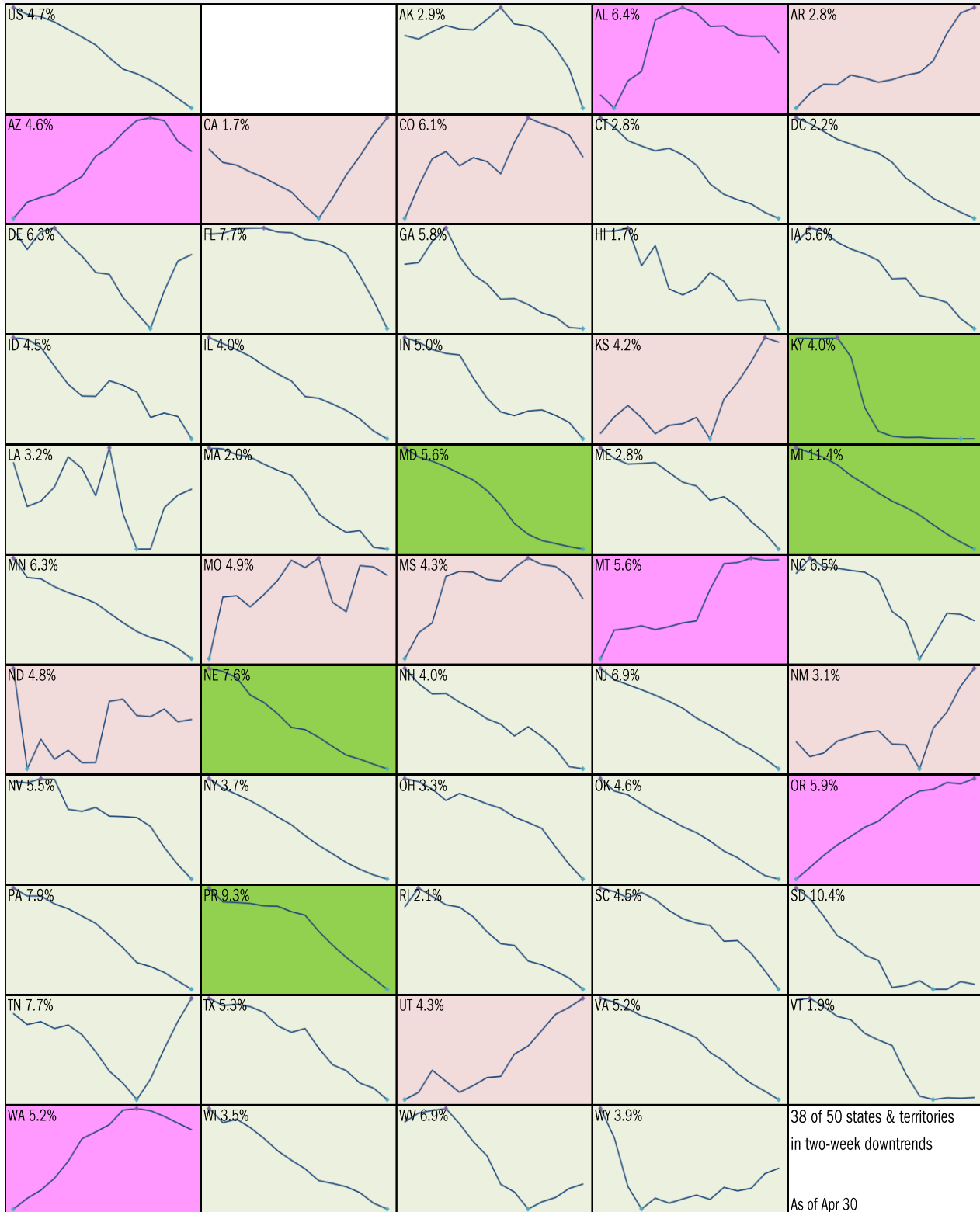


Source: [Johns Hopkins](#), TrendMacro calculations

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

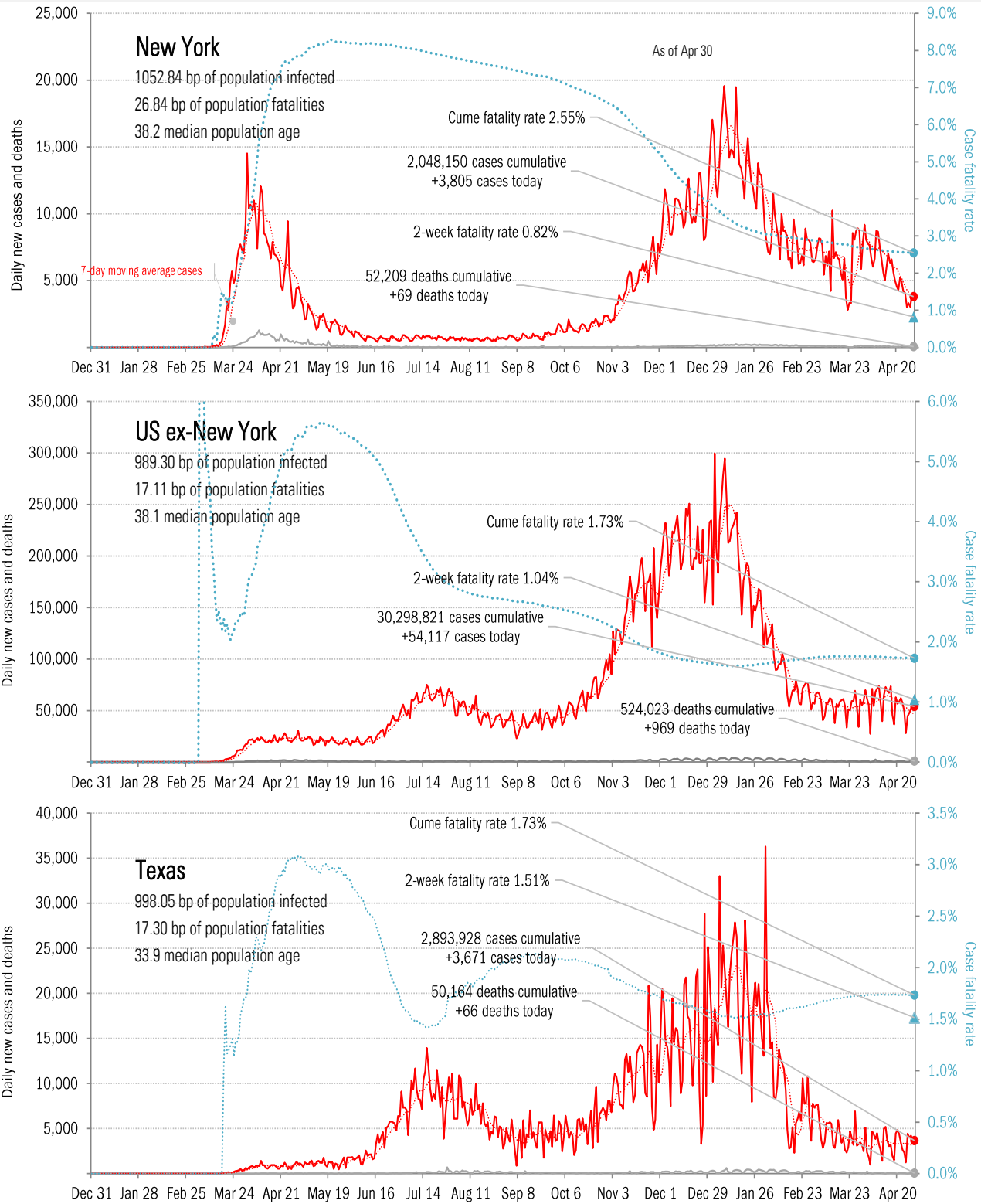
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



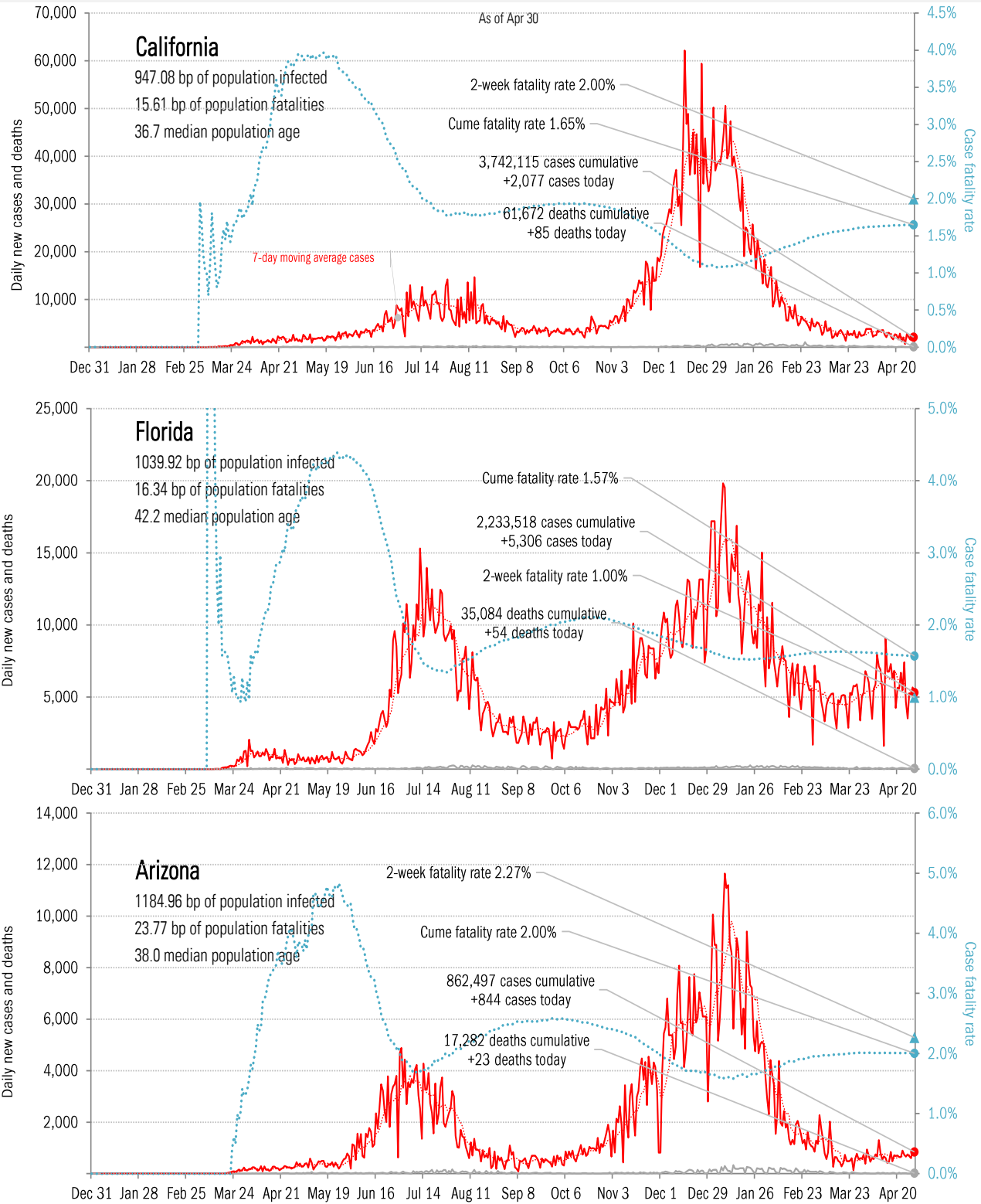
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



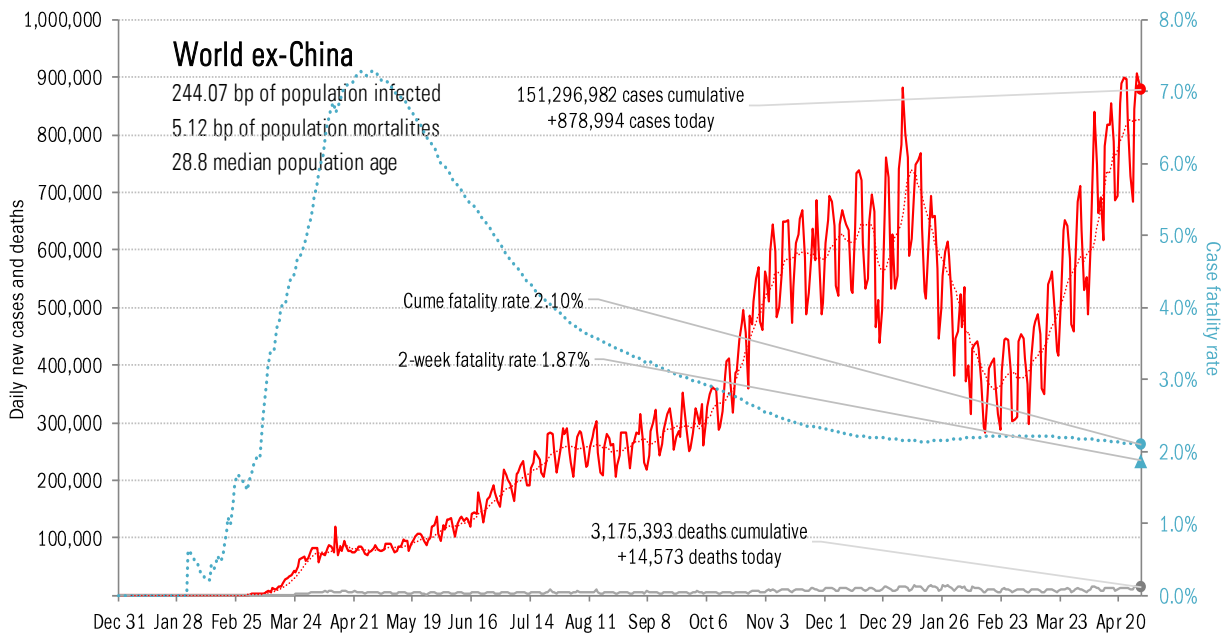
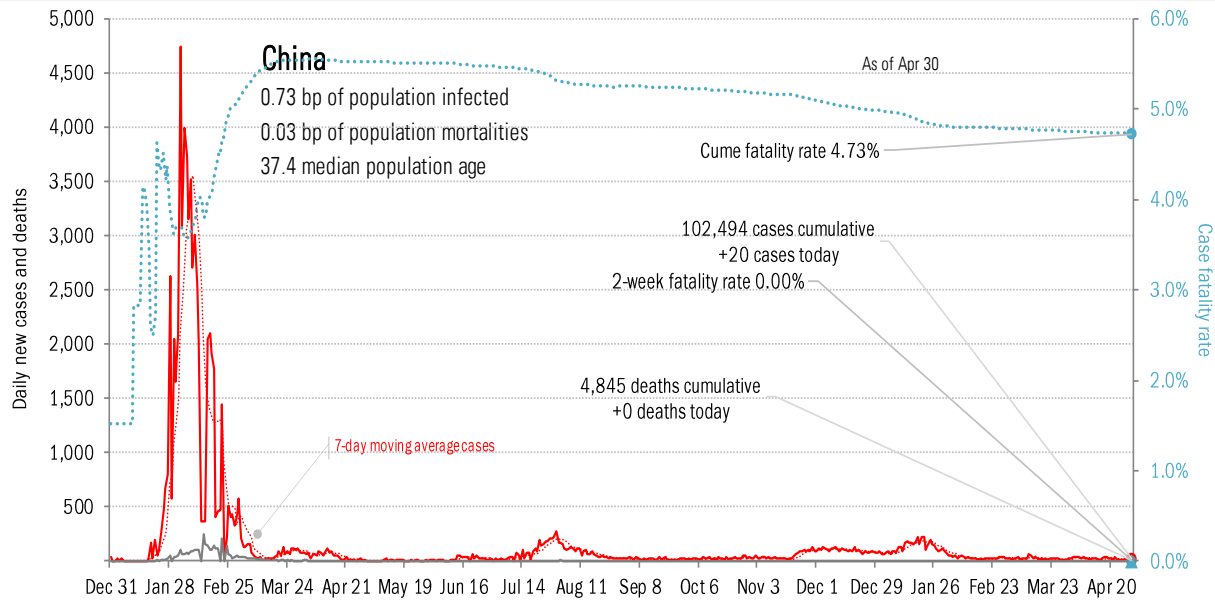
Source: [Johns Hopkins](#), TrendMacro calculations

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



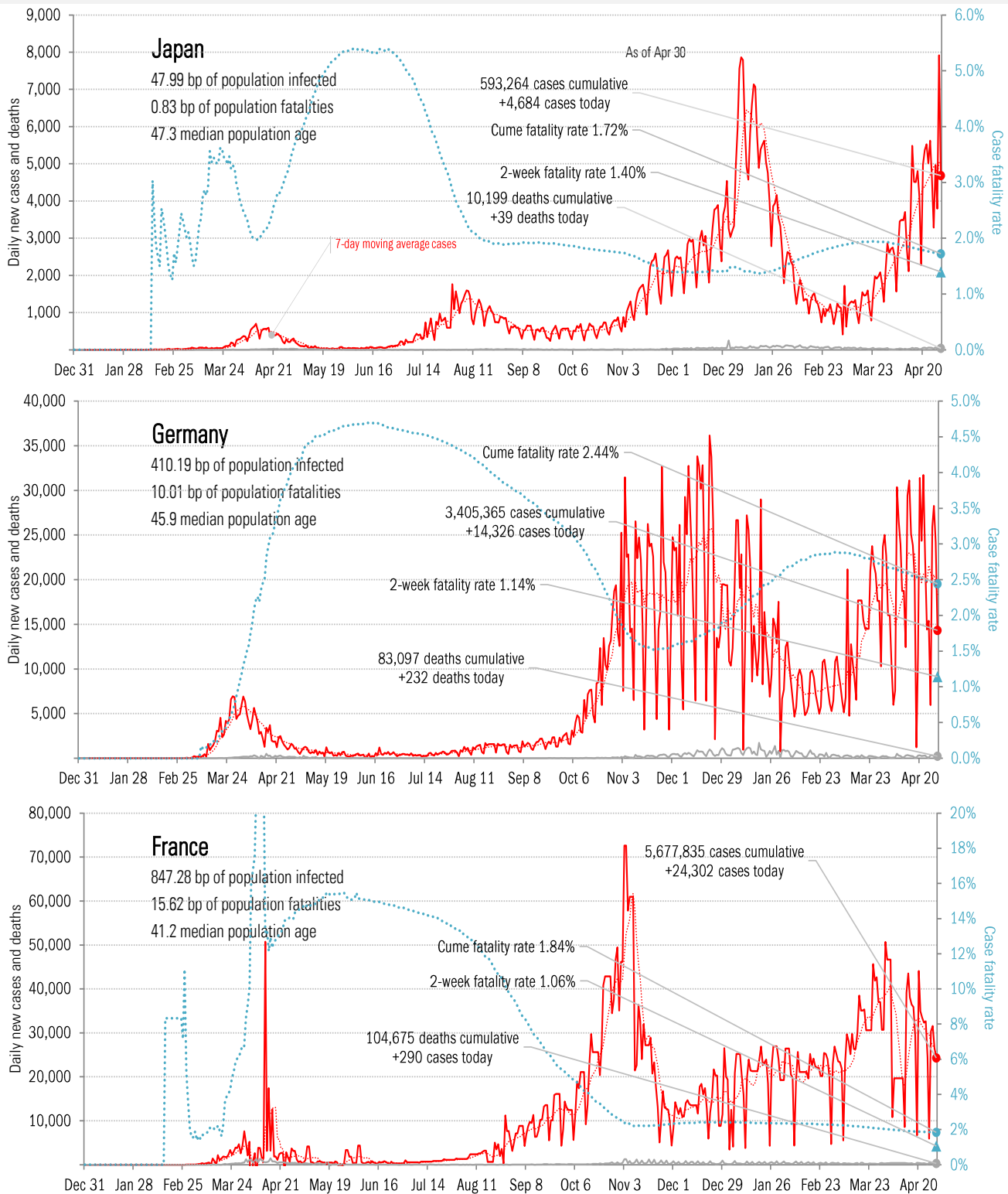
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



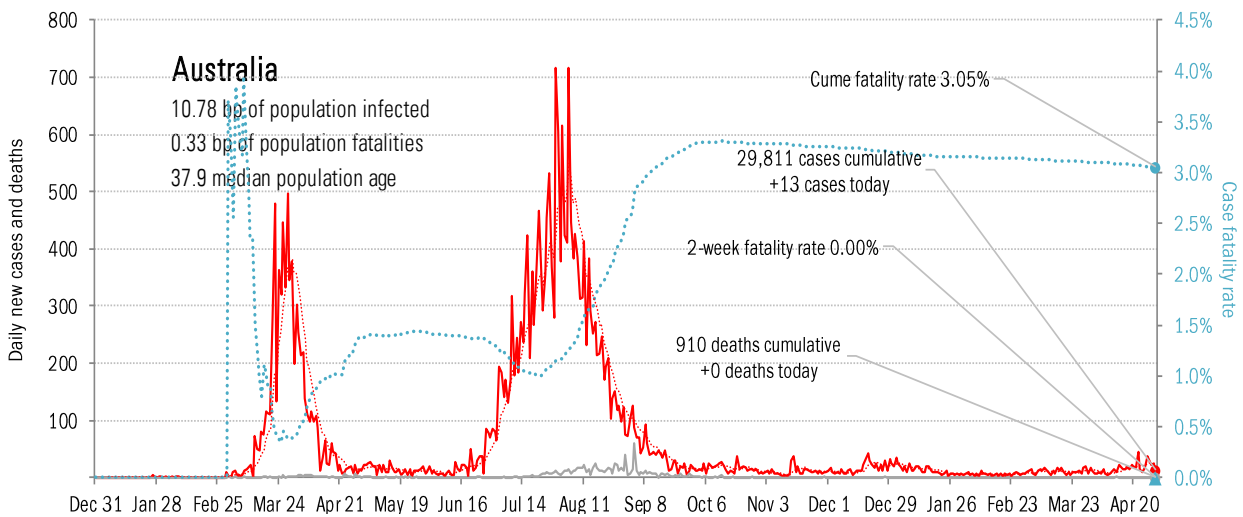
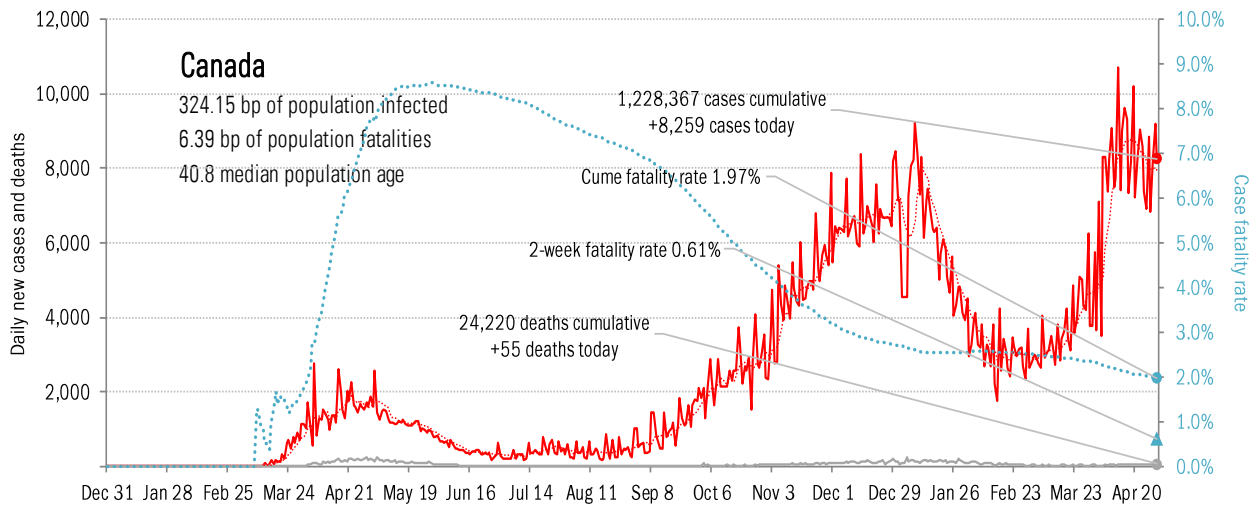
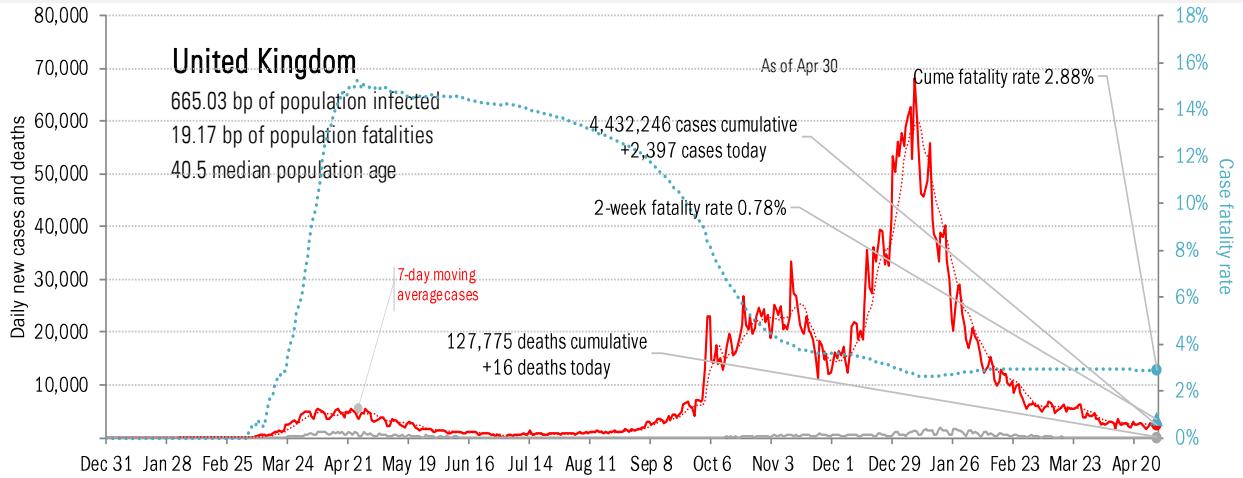
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



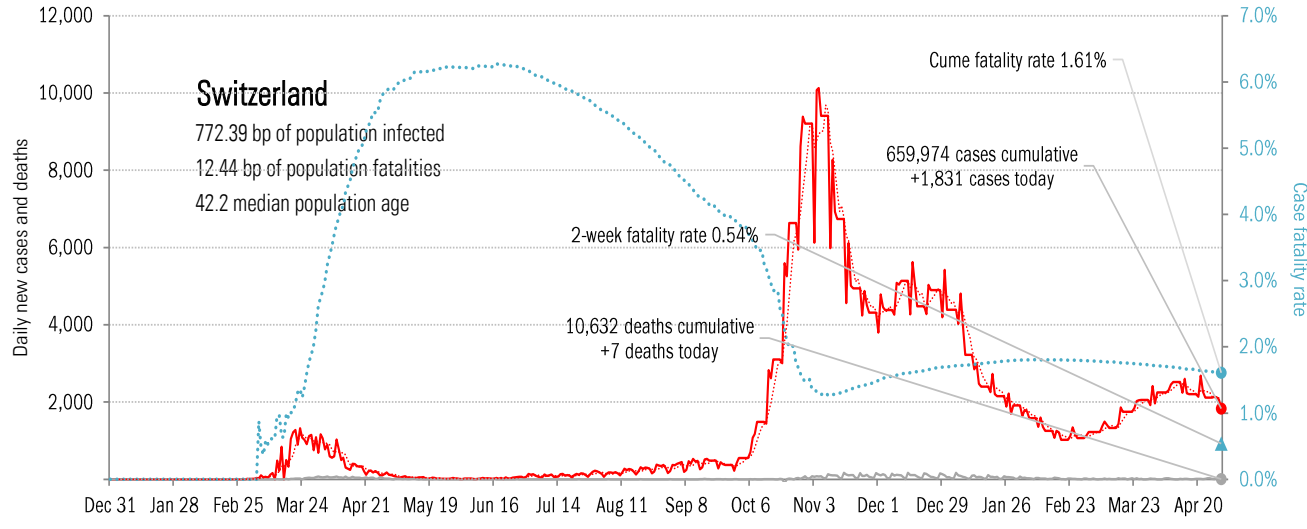
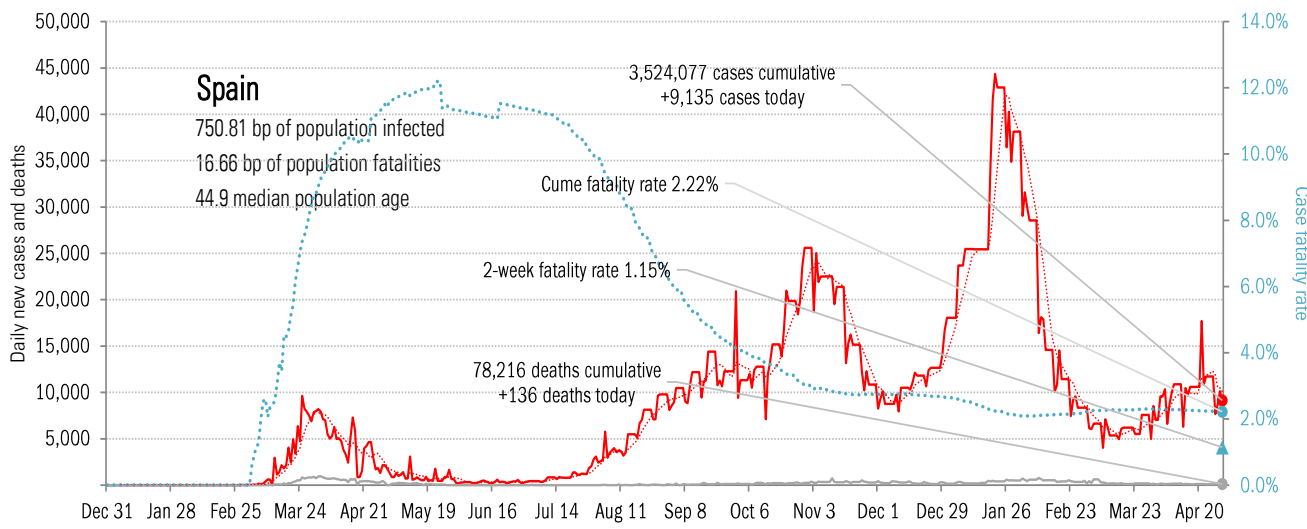
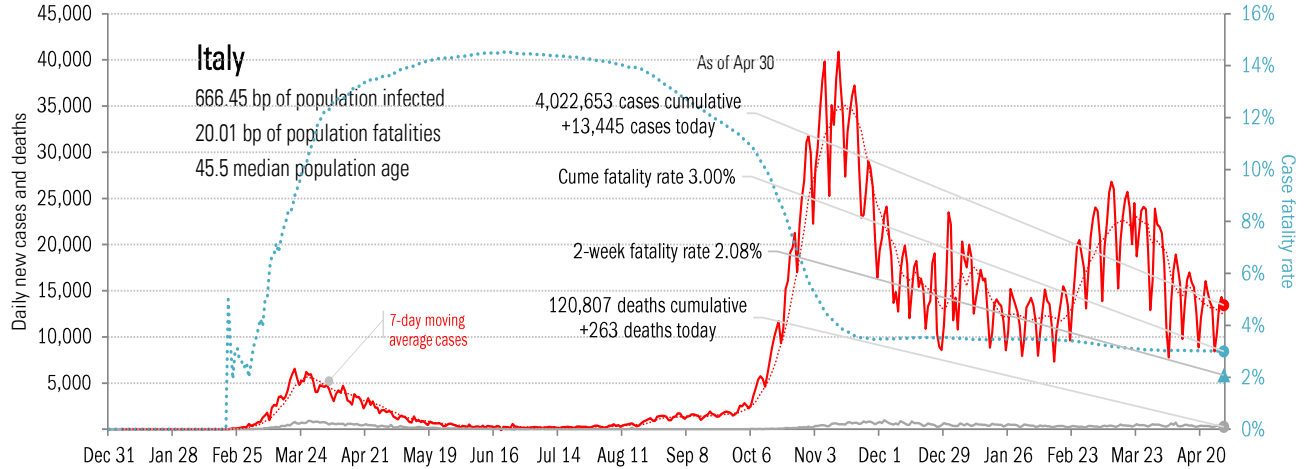
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



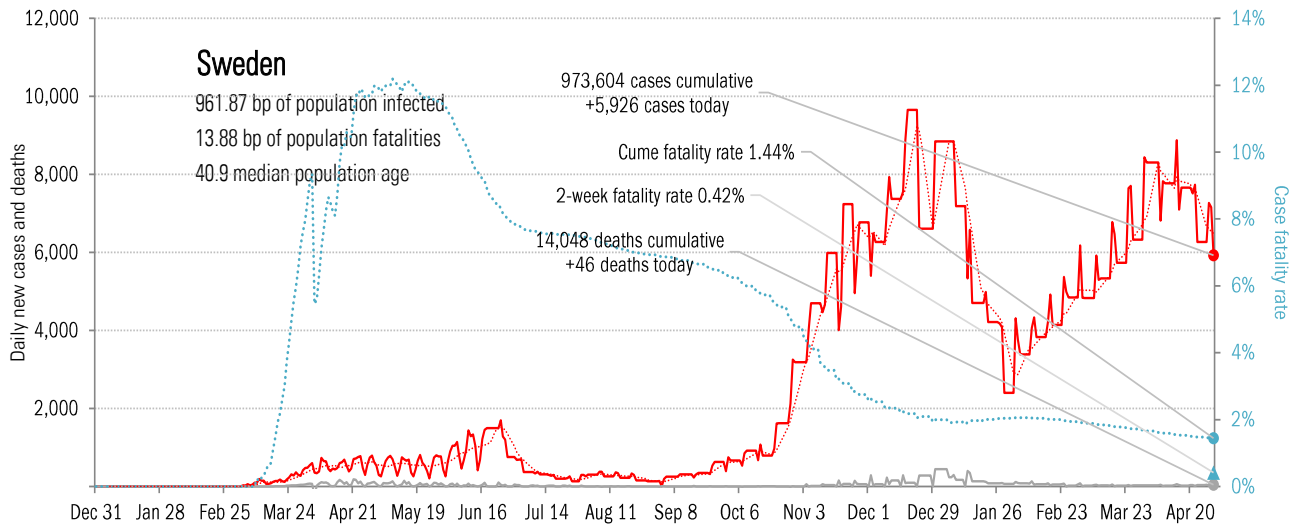
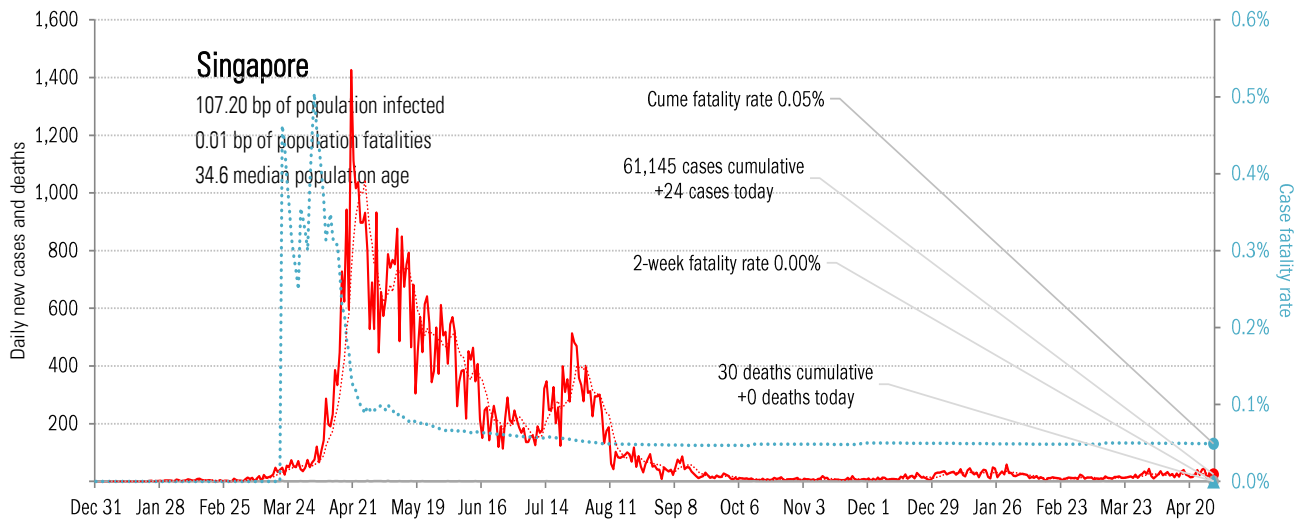
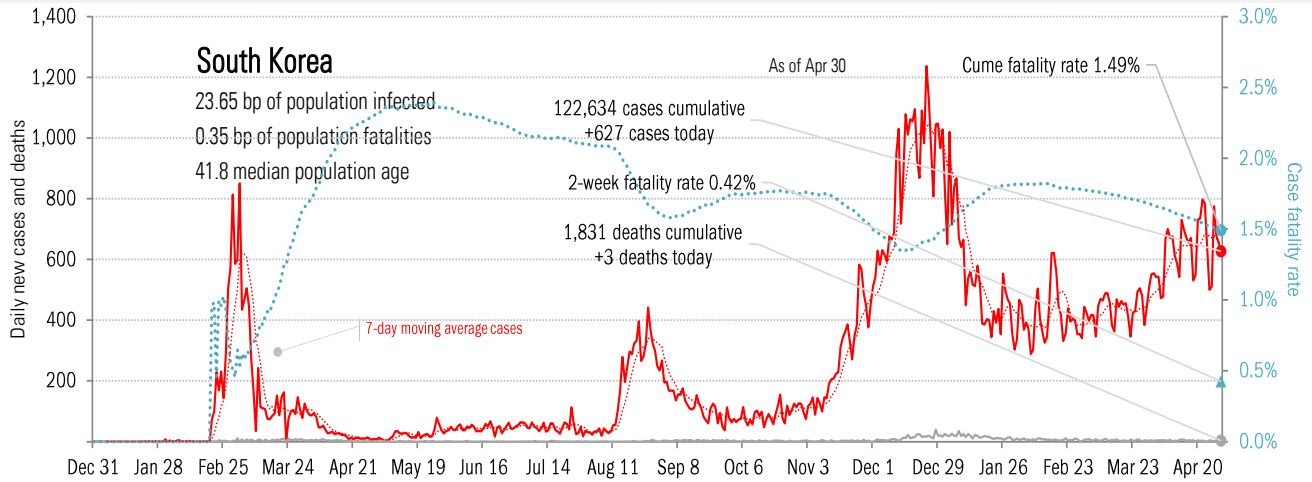
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



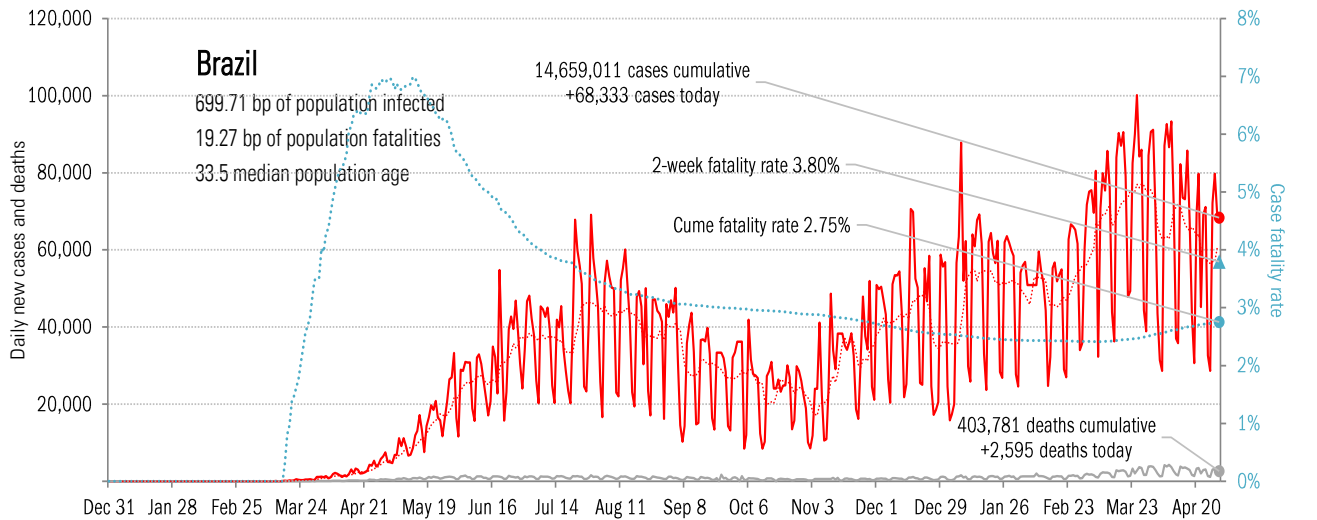
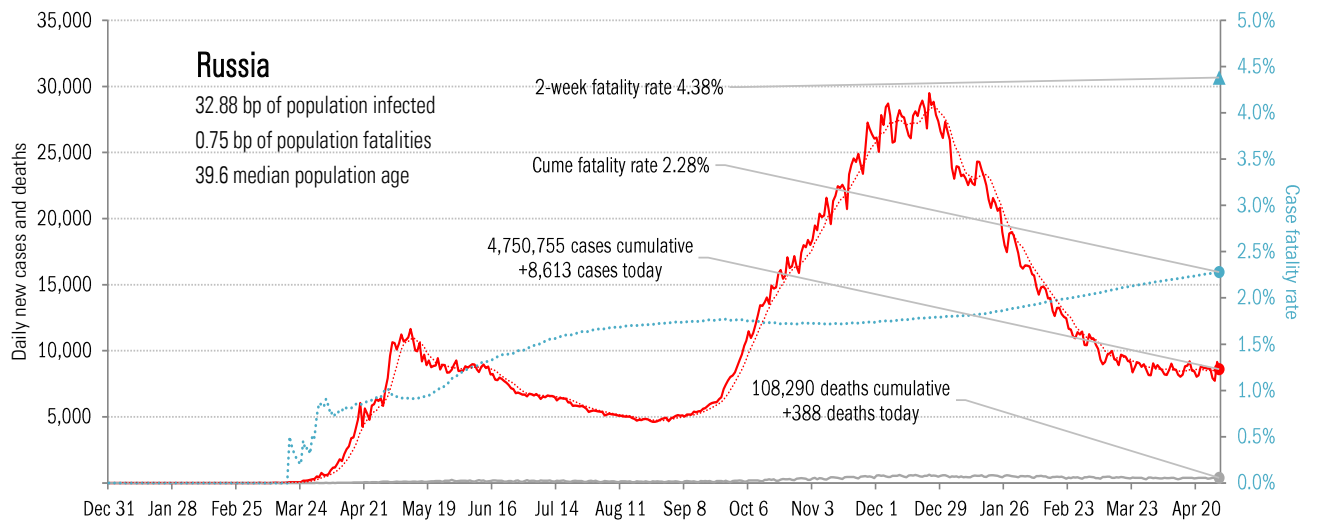
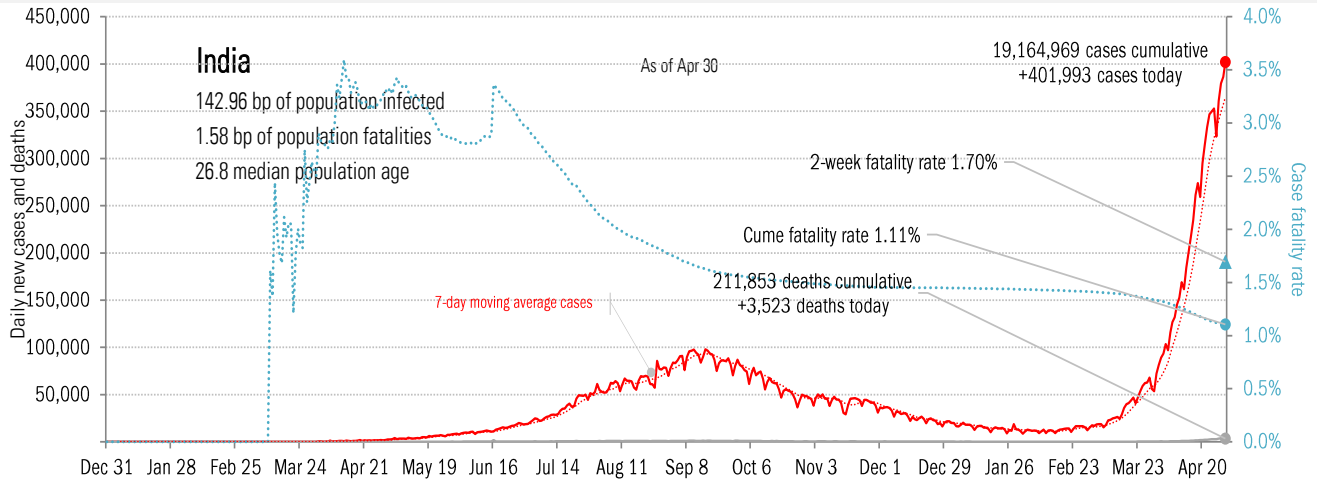
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



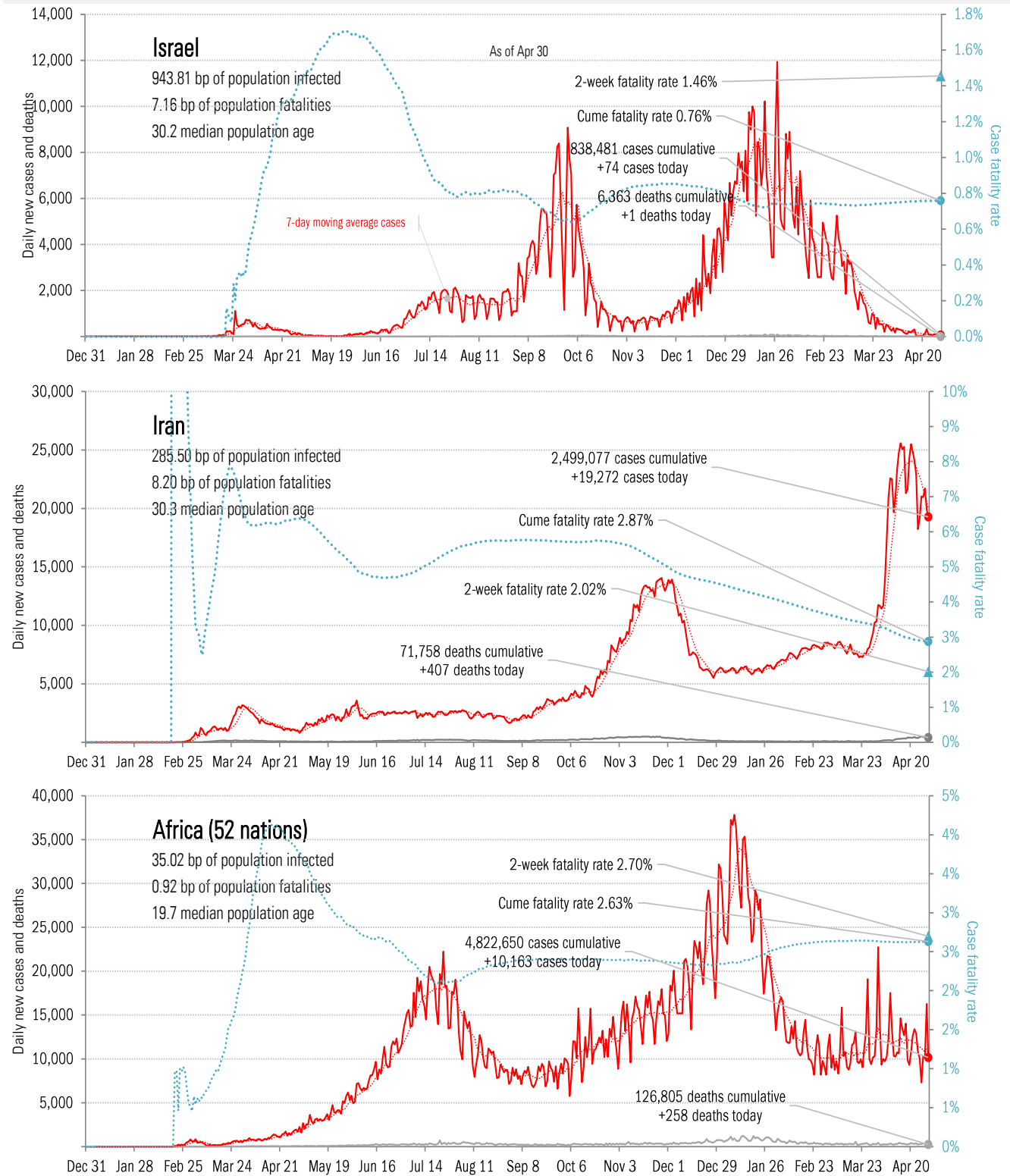
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



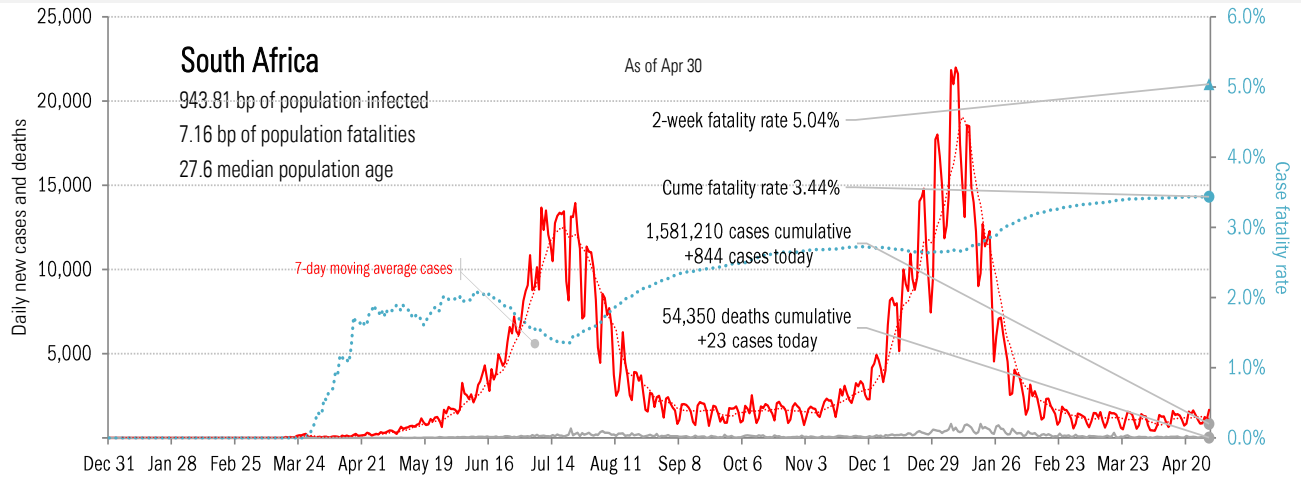
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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