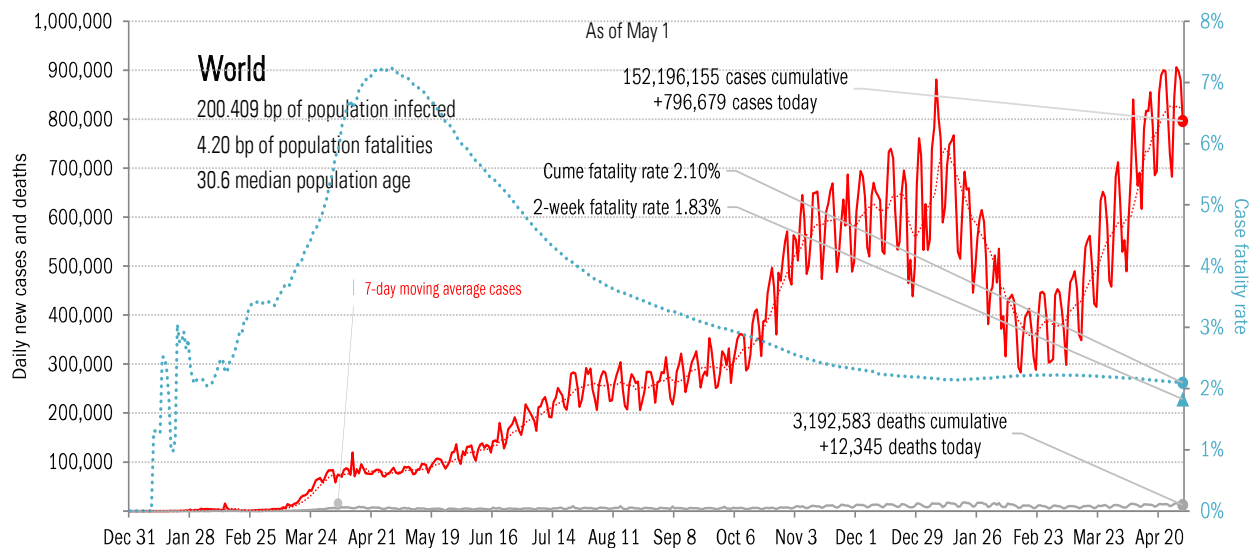
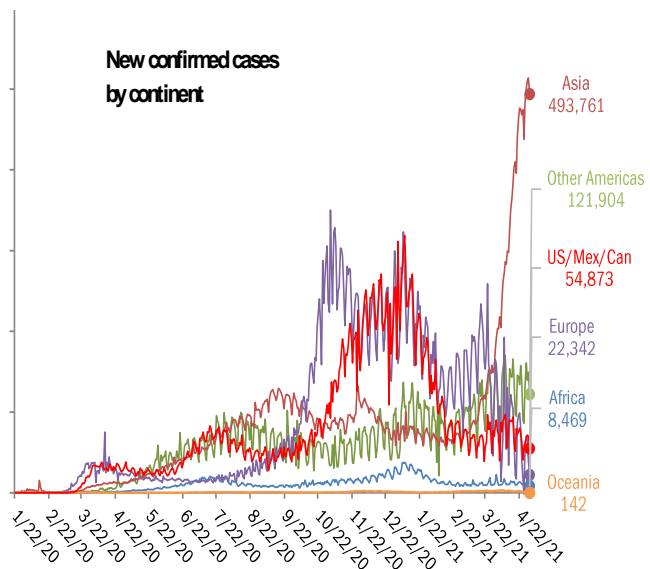


Data Insights: Covid-2019 Monitor

Sunday, May 2, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+392,488	India	+3,689
Brazil	+66,964	Brazil	+2,656
United States	+45,303	United States	+490
Turkey	+28,817	Poland	+422
France	+25,670	Russia	+385
Germany	+18,535	Turkey	+373
Colombia	+18,022	Ukraine	+358
Iran	+17,080	Iran	+332
Argentina	+16,502	Colombia	+272
Italy	+12,964	Mexico	+261
+642,345		+9,238	
World	+796,679	World	+12,345
Top ten	81%	Top ten	75%



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

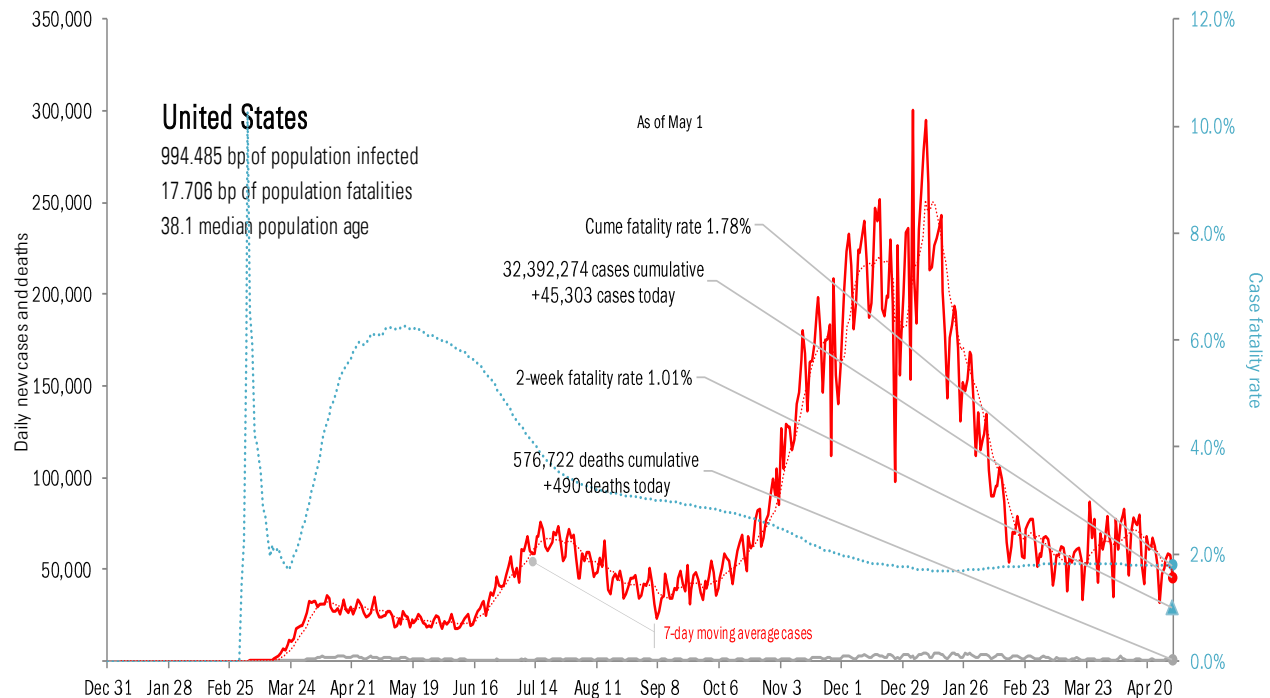
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
FL	+5,419	MI	+140	GA	+92	CA	3,743,681	CA	61,866	TX	238,313	RI	91%	MI	32%						
NY	+3,872	OH	+96	LA	+58	TX	2,895,810	NY	52,309	CA	230,813	MA	84%	MD	22%						
MI	+3,708	FL	+78	NV	+33	FL	2,238,937	TX	50,274	FL	168,332	PA	82%	ME	19%						
IL	+2,805	TX	+55	CA	+26	NY	2,052,022	FL	35,239	NY	128,946	CT	82%	RI	18%						
PA	+2,604	NY	+51	IL	+25	IL	1,337,760	PA	26,219	GA	101,032	MO	82%	MN	18%						
TX	+1,882	IL	+39	TN	+22	PA	1,155,140	NJ	25,588	PA	84,578	MD	82%	CO	17%						
CO	+1,838	NJ	+34	KY	+19	GA	1,101,487	IL	24,330	CH	81,827	MI	81%	PA	16%						
MN	+1,712	PA	+27	WV	+18	CH	1,074,019	GA	20,212	IL	76,129	GA	80%	ID	15%						
CH	+1,707	GA	+22	AR	+17	NJ	998,812	CH	19,284	KY	72,134	MIN	79%	WA	14%						
WA	+1,669	MD	+20	CH	+12	NC	969,752	MI	18,893	MI	65,918	FL	78%	WV	14%						
+27,216			+562			+322			17,567,420			334,214			1,248,022						
All states +45,303			+490			+7			All states 32,392,274			576,722			2,222,932			All states 70%		67%	
Top ten 60%			115%			4600%			Top ten 54%			58%			56%			Median 72%		10%	

Some states not reporting

Five most improved US states

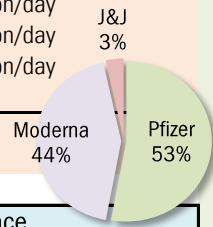
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NC	-2,231	CA	-618	CR	-44	SD	+110 bp
PA	-1,811	NC	-20	IN	-27	UT	+98 bp
TX	-1,789	IA	-17	WA	-25	FL	+87 bp
TN	-958	CT	-13	NM	-21	CA	+85 bp
CT	-786	VA	-12	FL	-19	CT	+84 bp



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

Rolling out the vaccines in the US and the world

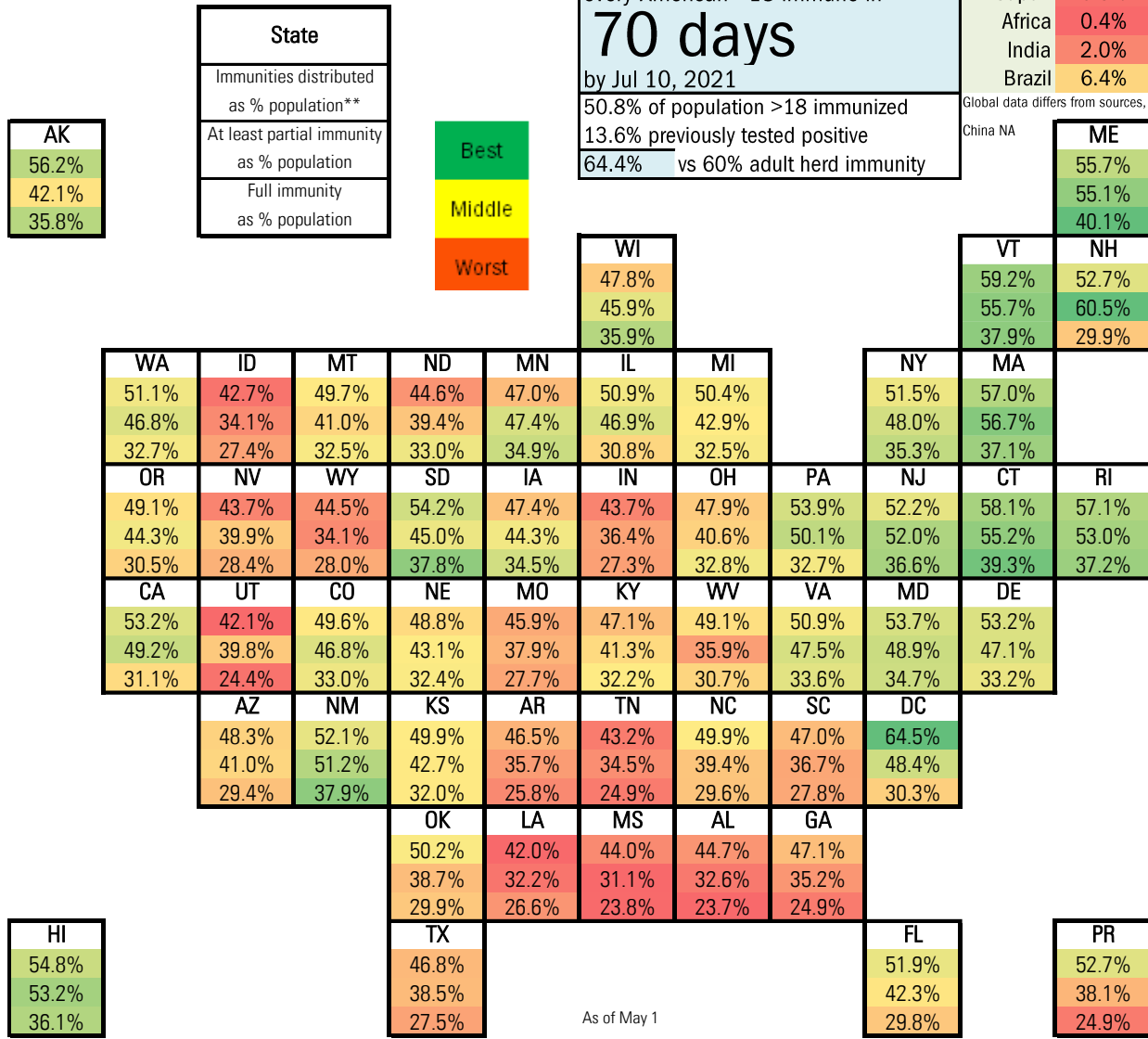
US overall	Over last day	Immunity	Full	Partial
324.37 million doses distributed	+3.74 million/day	US	30.9%	43.7%
251.72 million doses administered	+3.35 million/day	UK	22.0%	50.6%
150.43 million persons partially immunized	+1.36 million/day	France	9.6%	22.9%
106.86 million persons fully immunized	+2.04 million/day	Spain	10.0%	25.2%
		Germany	7.6%	26.7%
		Italy	10.1%	23.7%
		Australia	1.4%	0.6%
		Israel	58.9%	62.5%
		Canada	3.0%	33.2%
		Japan	0.8%	2.0%
		Africa	0.4%	1.0%
		India	2.0%	9.2%
		Brazil	6.4%	13.8%



77.6% of distributed doses administered
45.0% of US pop partial 32.0% full immunity

At today's dosing pace,
every American >18 immune in
70 days
by Jul 10, 2021
50.8% of population >18 immunized
13.6% previously tested positive
64.4% vs 60% adult herd immunity

Global data differs from sources, timing

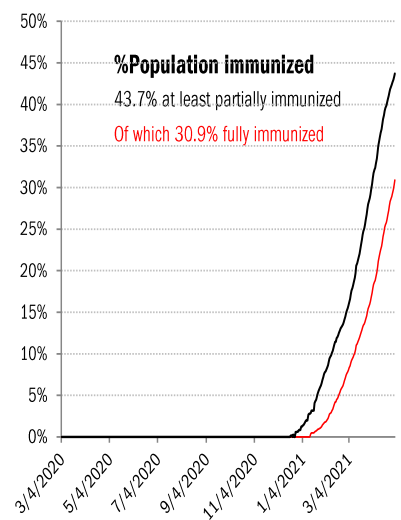
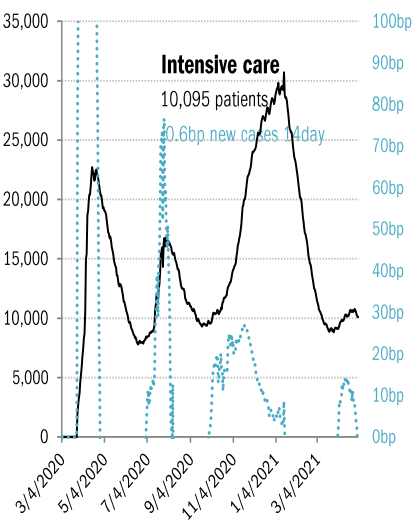
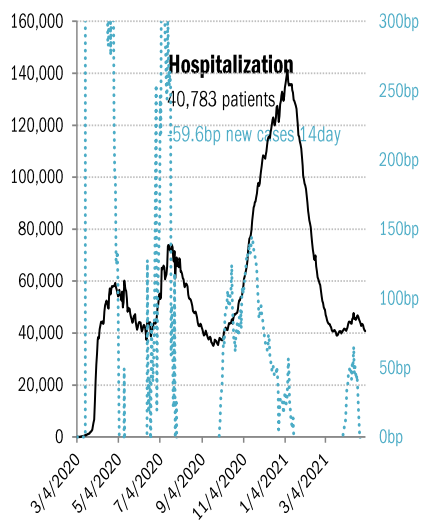
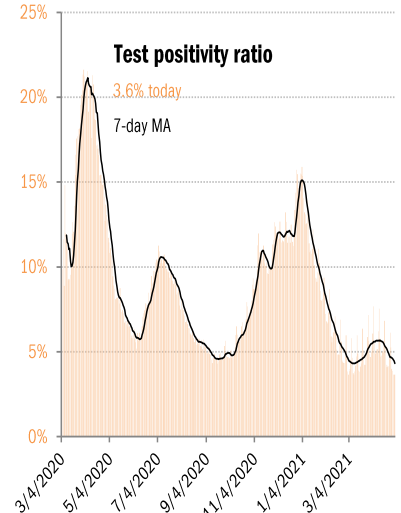
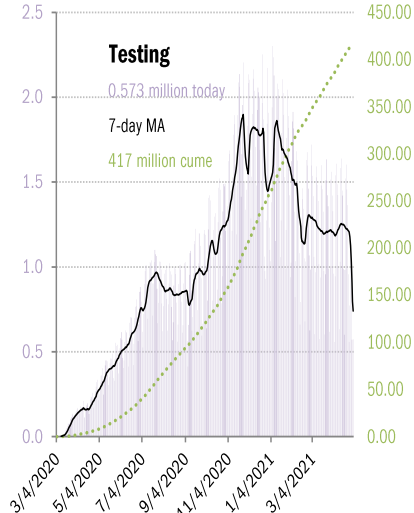
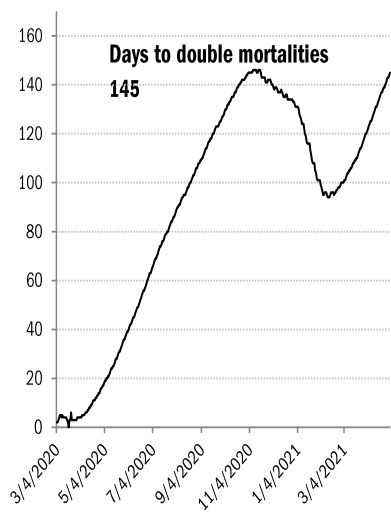
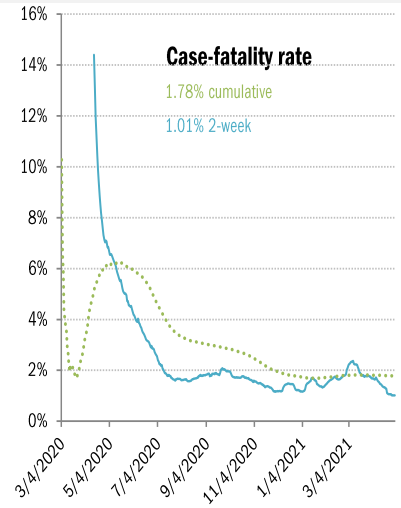
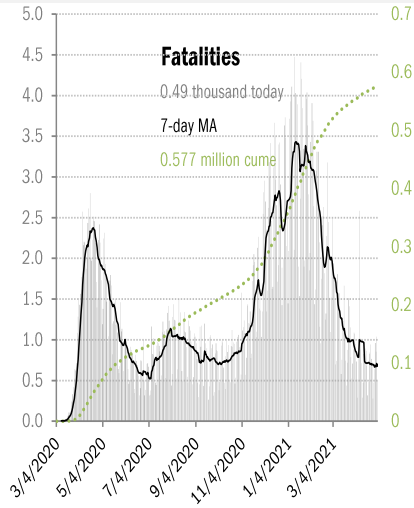
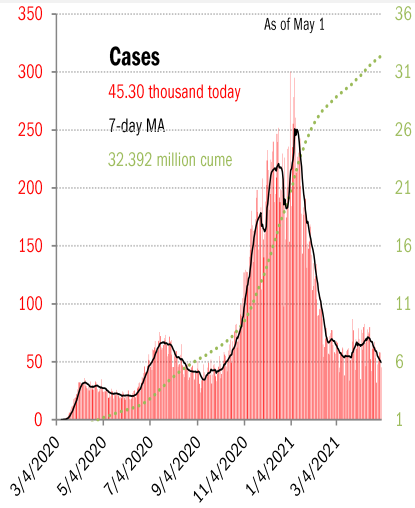


** One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

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

US deep-dive

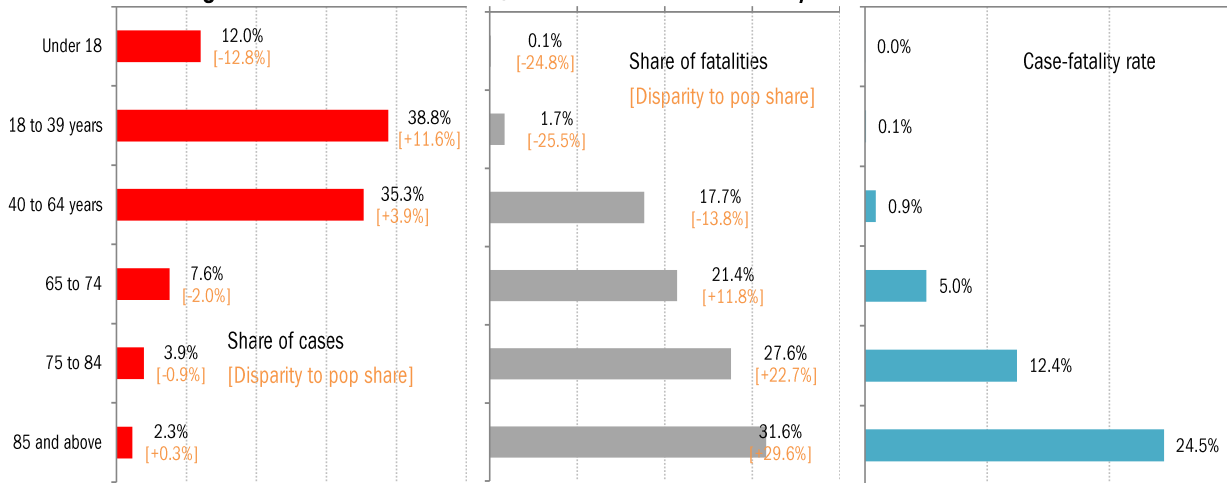
National and state-by-state data do not line up because of different sources



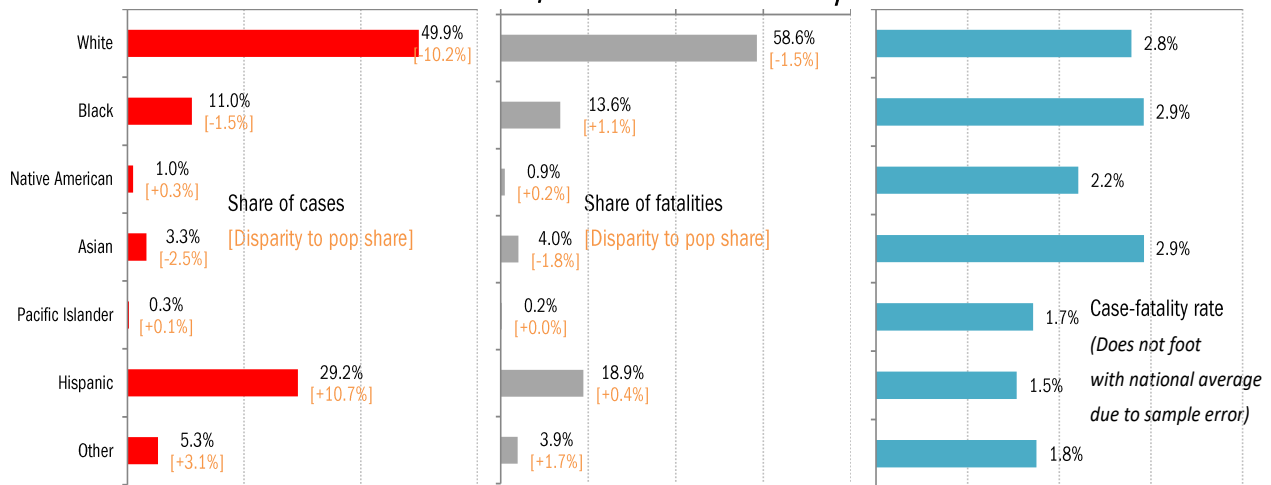
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

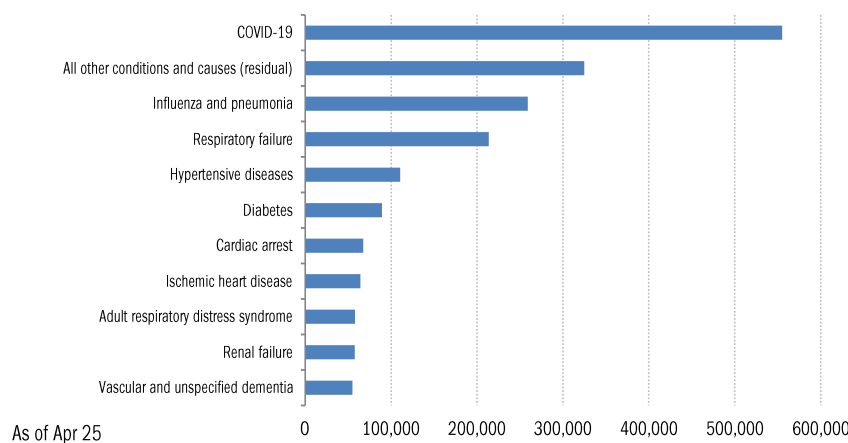


Racial distribution of US cases, fatalities and case-fatality rates Cumulative



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

[SpaceX Makes First Nighttime Splash Down With Astronauts Since 1968](#)

Kenneth Chang
New York Times
May 2, 2021

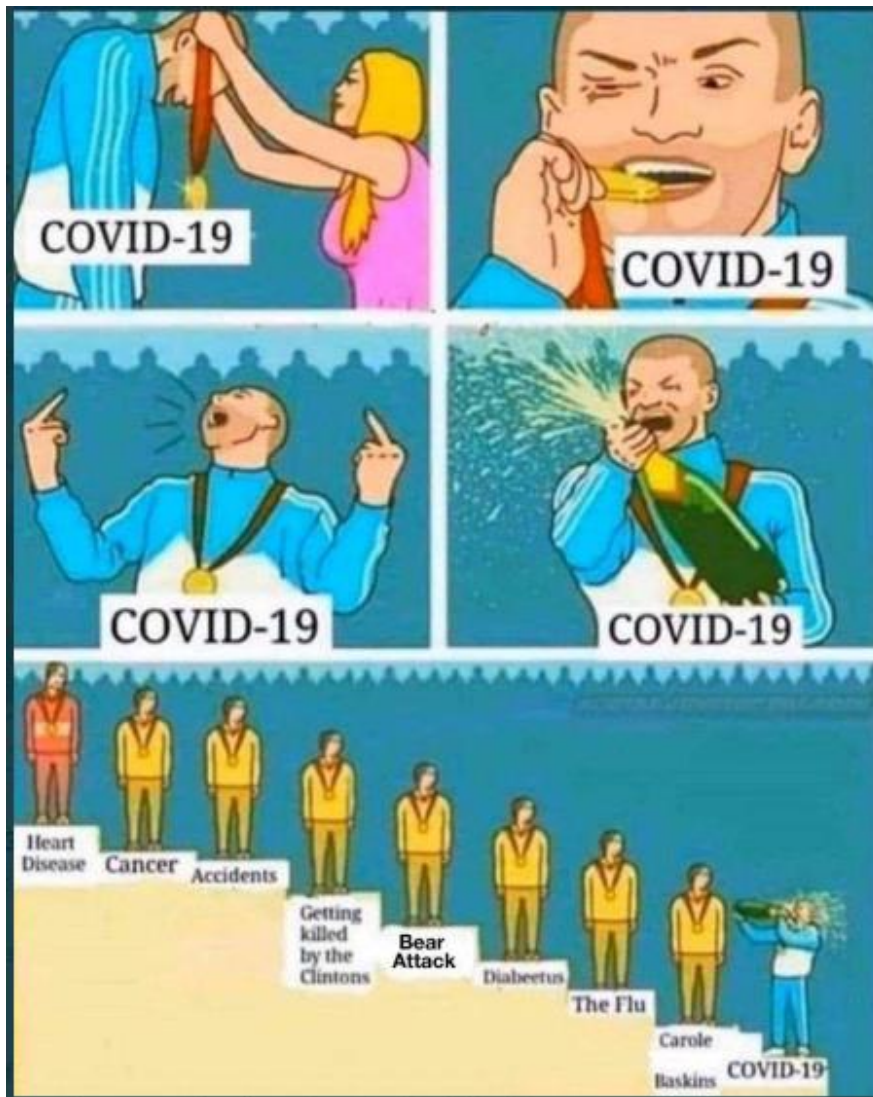
[How Will Camps Keep Kids Safe This Summer?](#)

Melinda Wenner Moyer
New York Times
April 29, 2021

[Was COVID-19 the only culprit behind the extraordinary increase in deaths last year?](#)

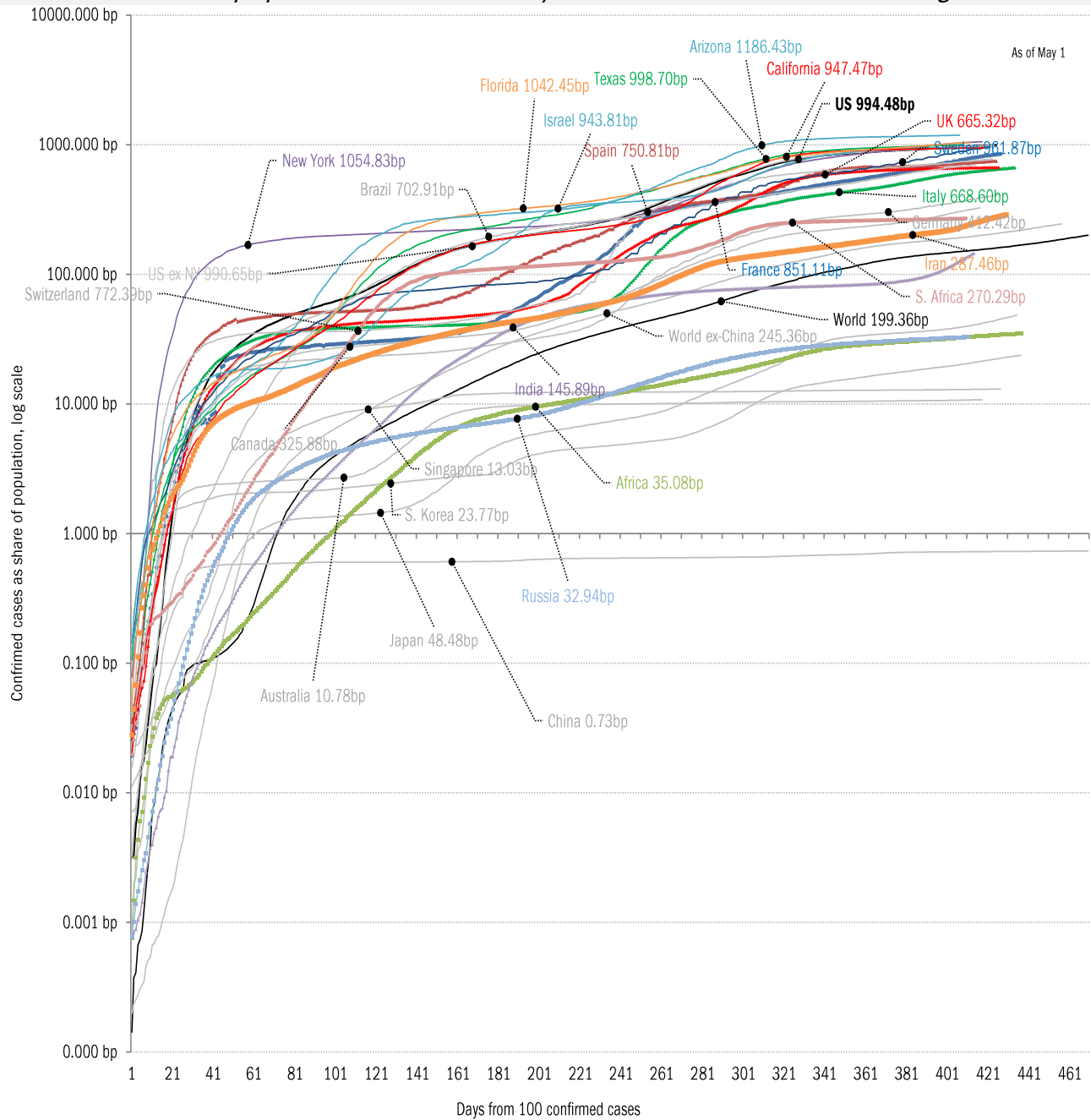
Peter Attia
Peter Attia MD
May 2, 2021

Meme of the day



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

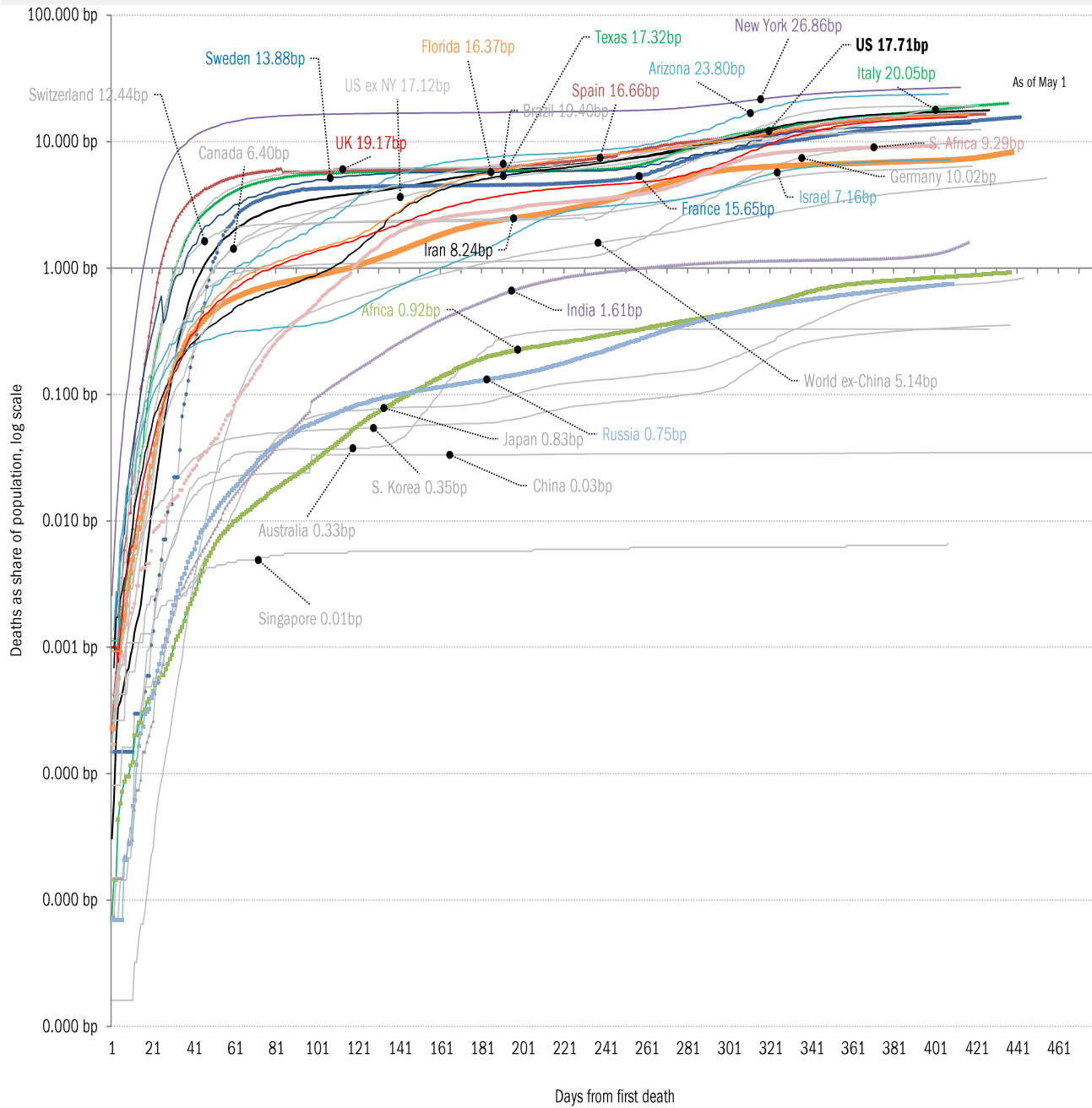
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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-19

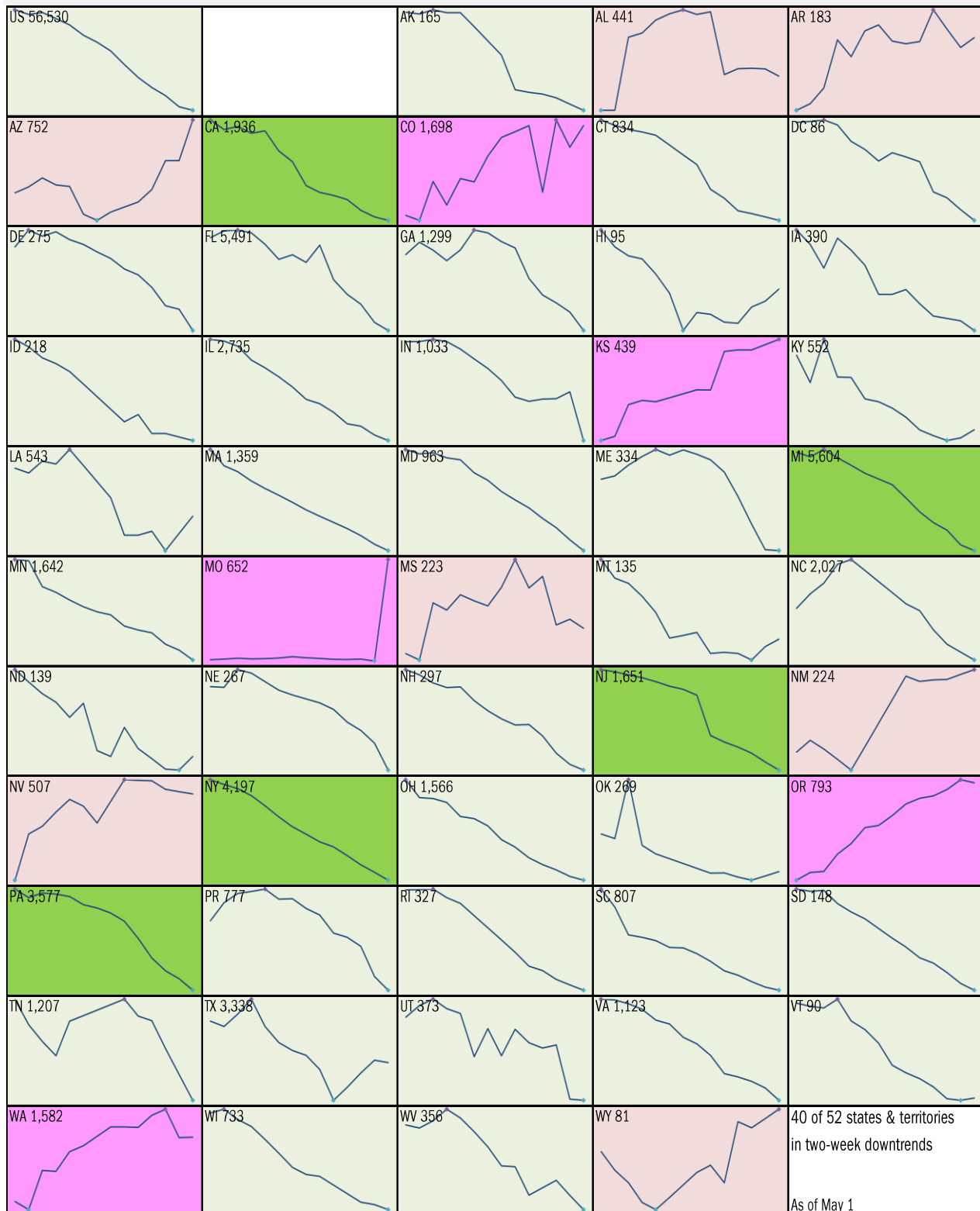
Vertical: days to double deaths Horizontal: days from first death

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

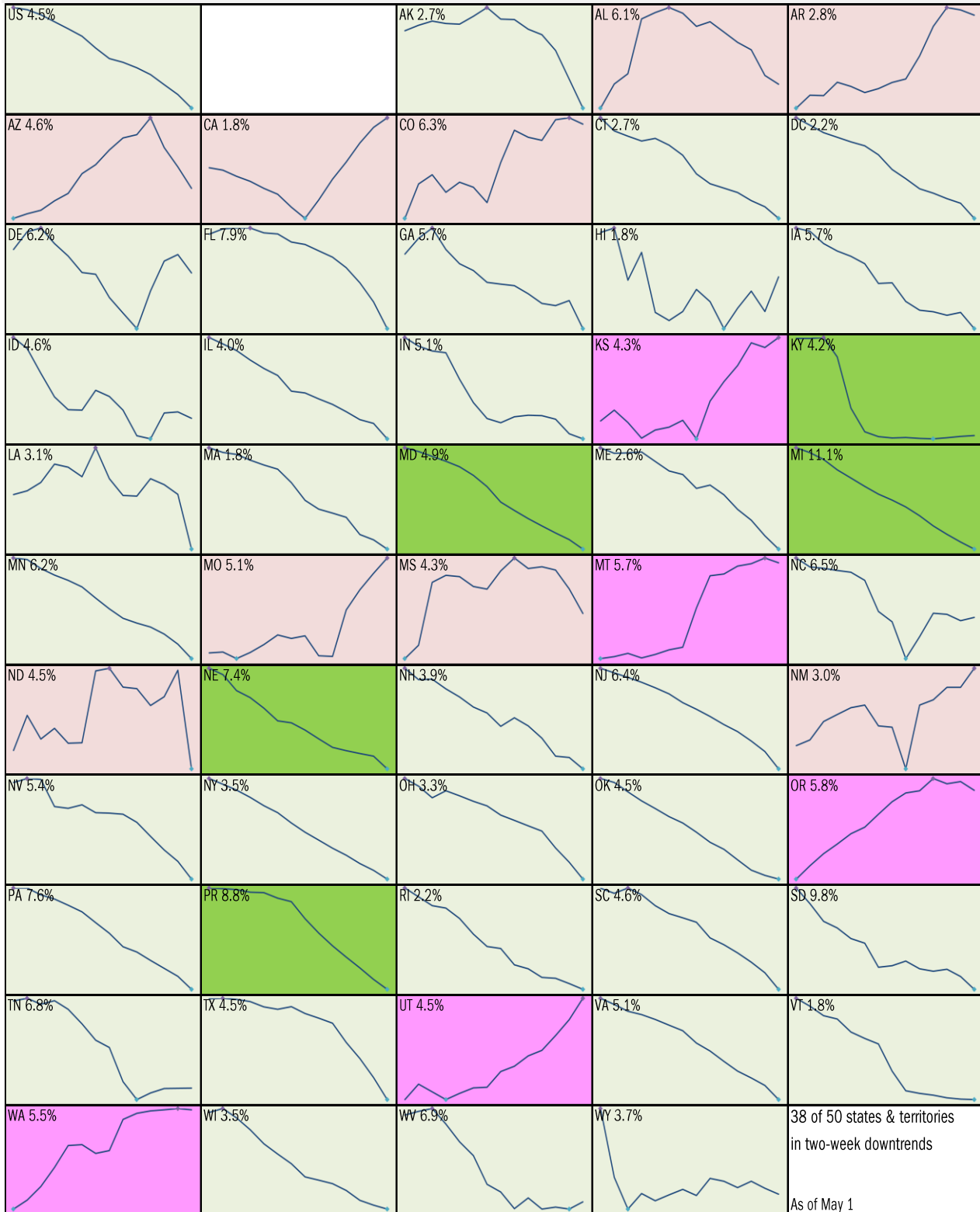


Source: [Johns Hopkins](#), TrendMacro calculations

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

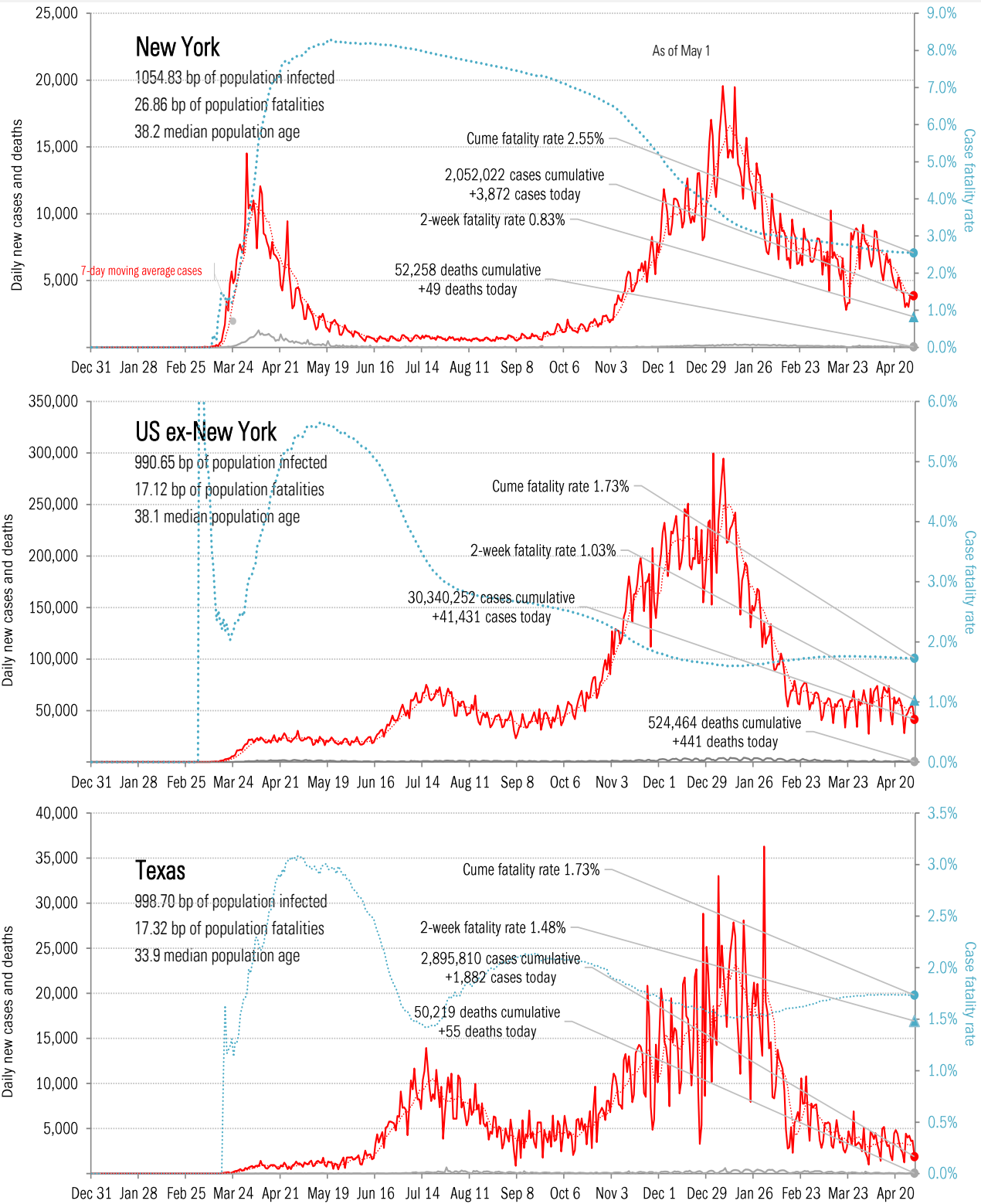
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



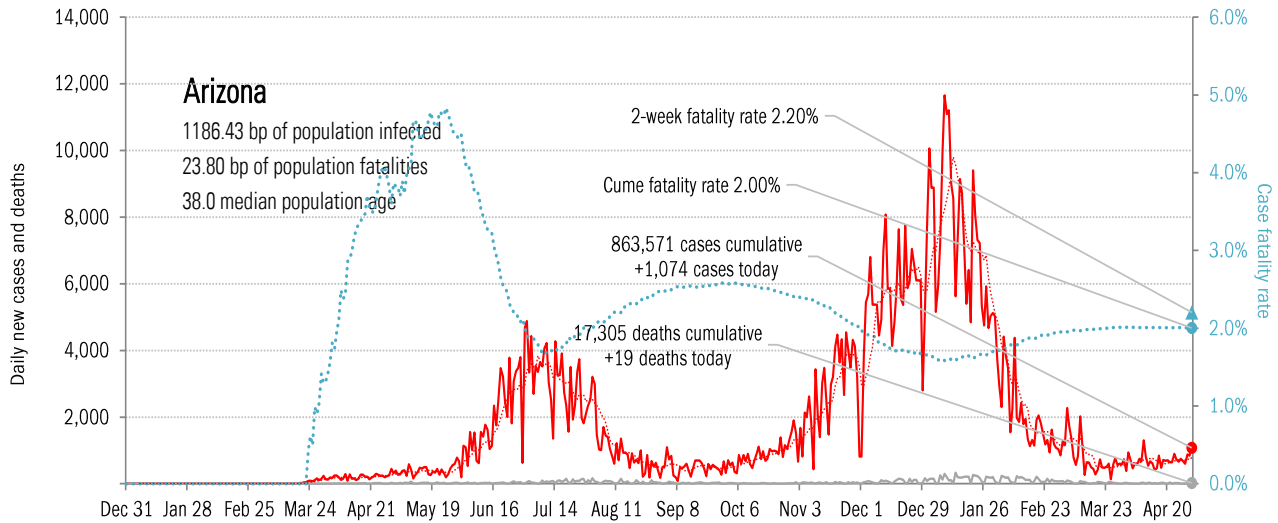
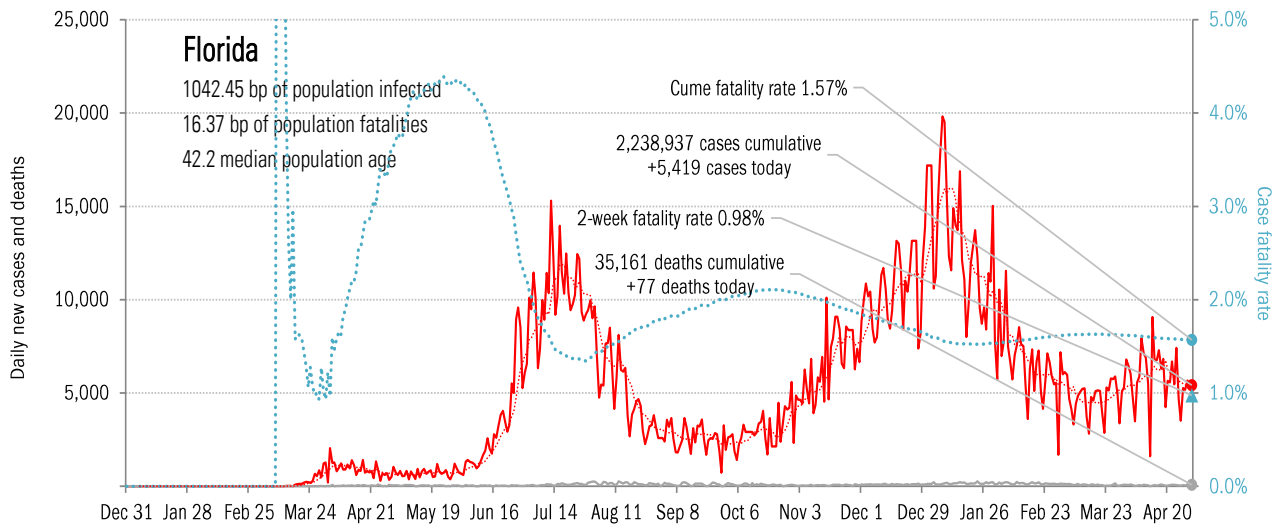
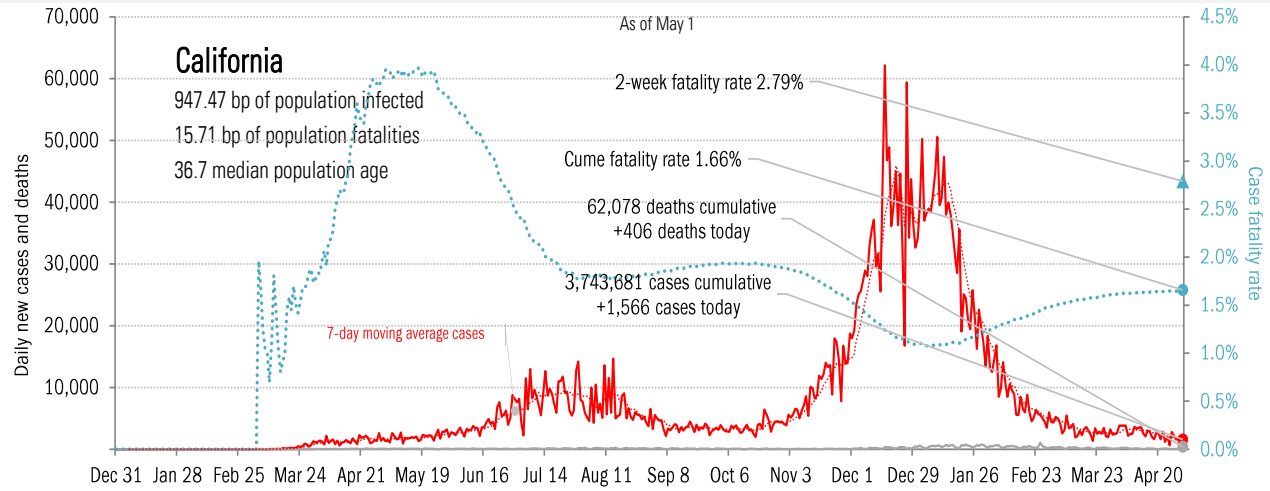
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



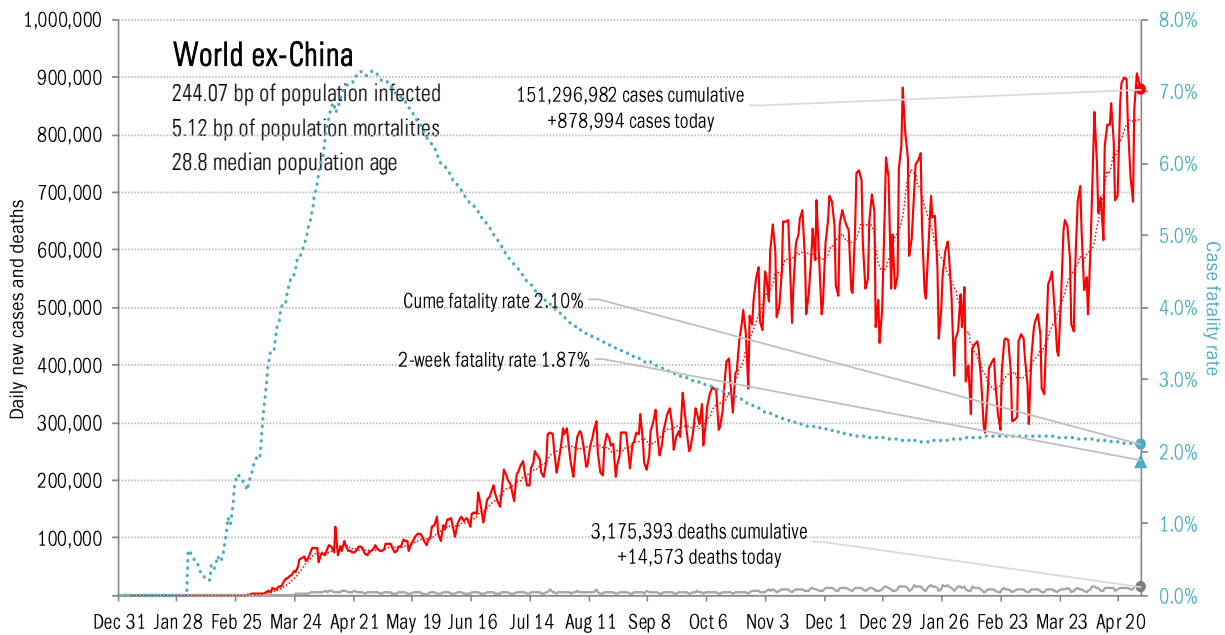
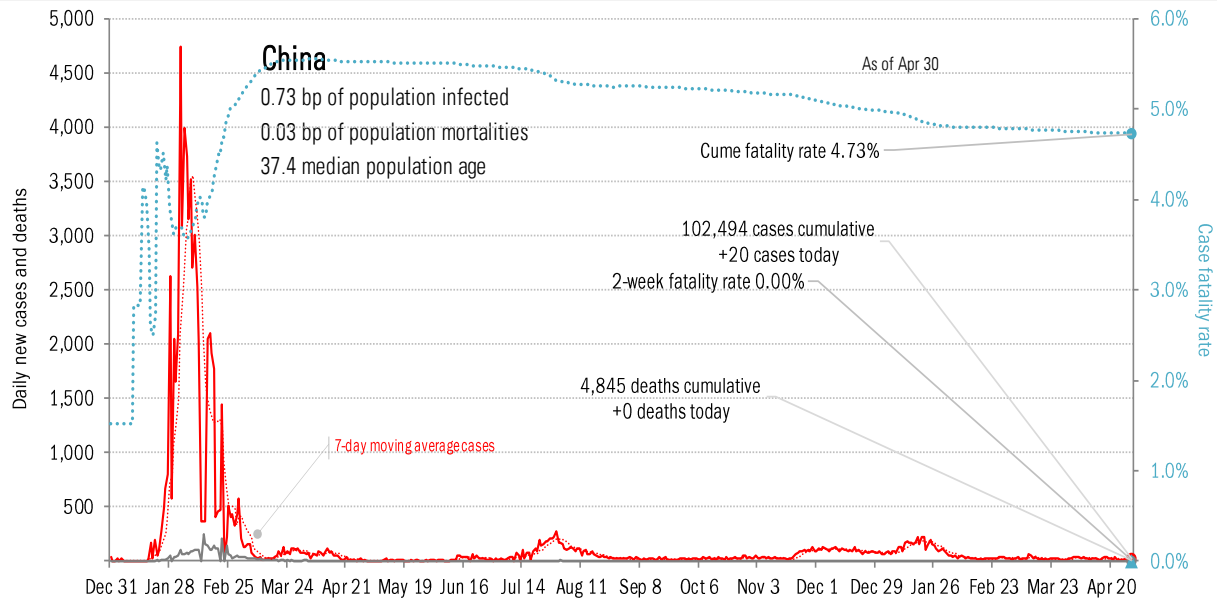
Source: [Johns Hopkins](#), TrendMacro calculations

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



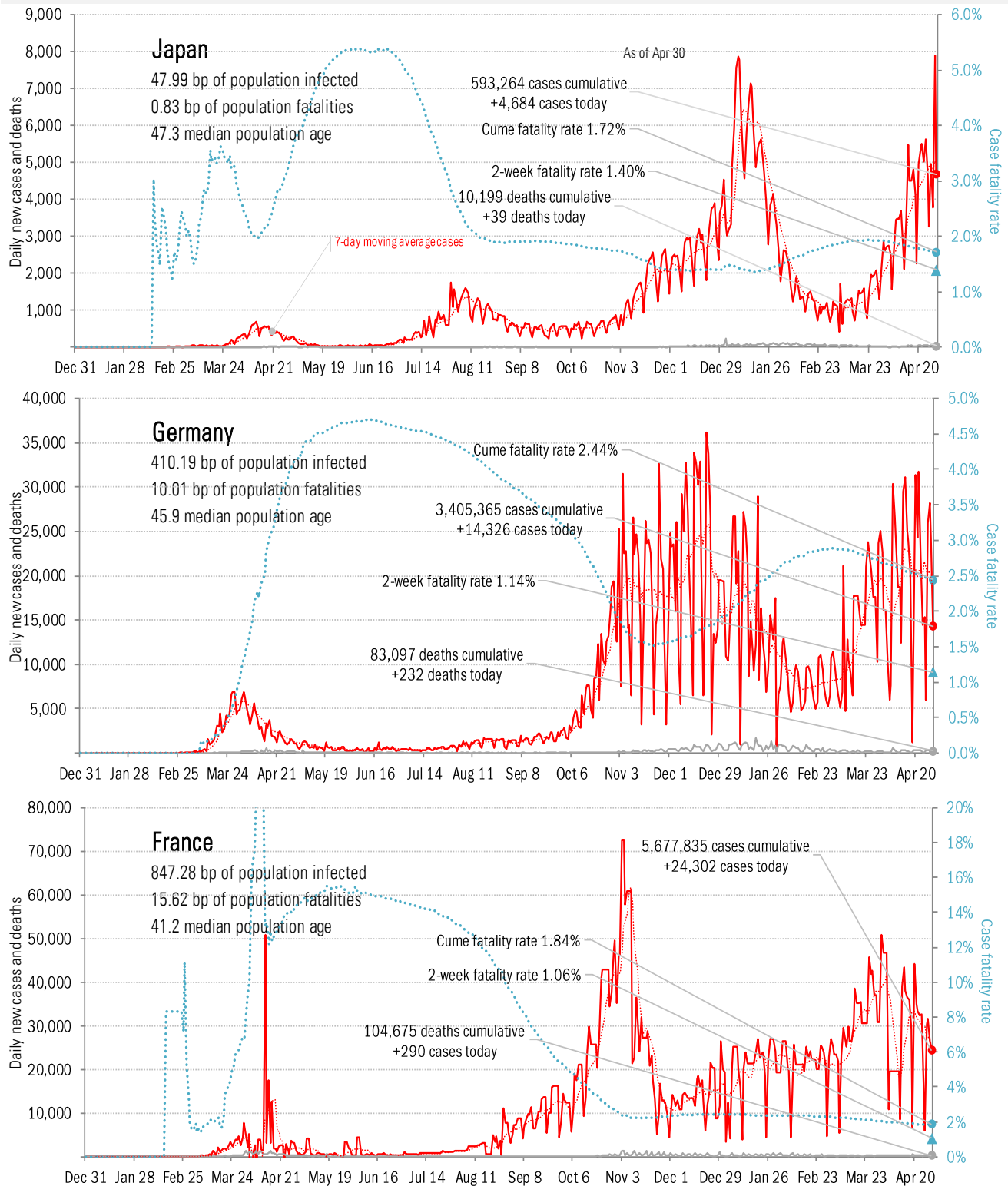
Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

Patient zero... and then everyone else



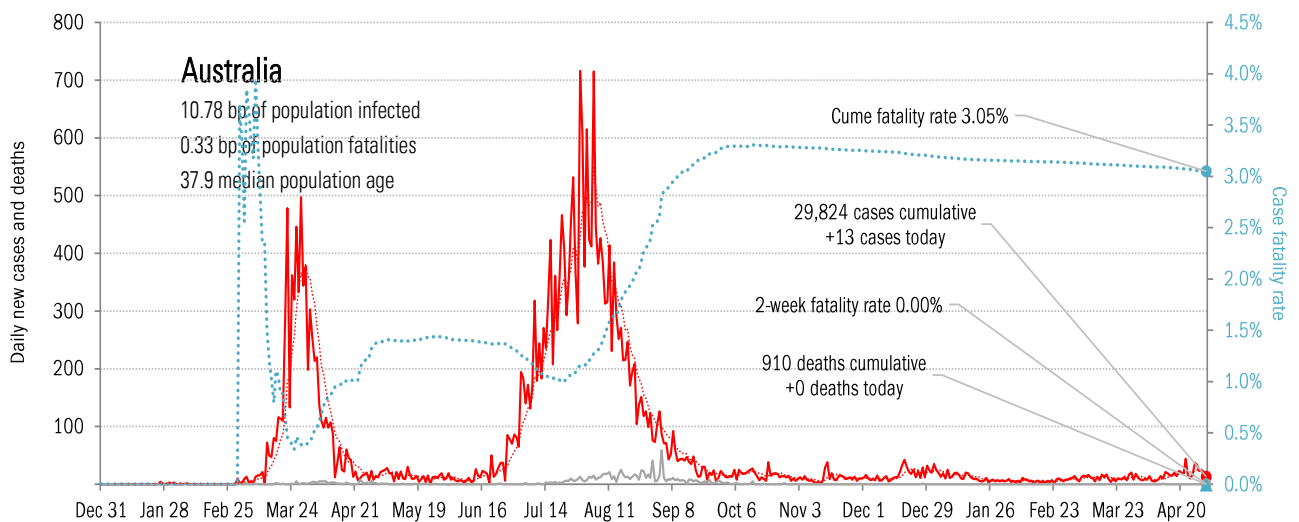
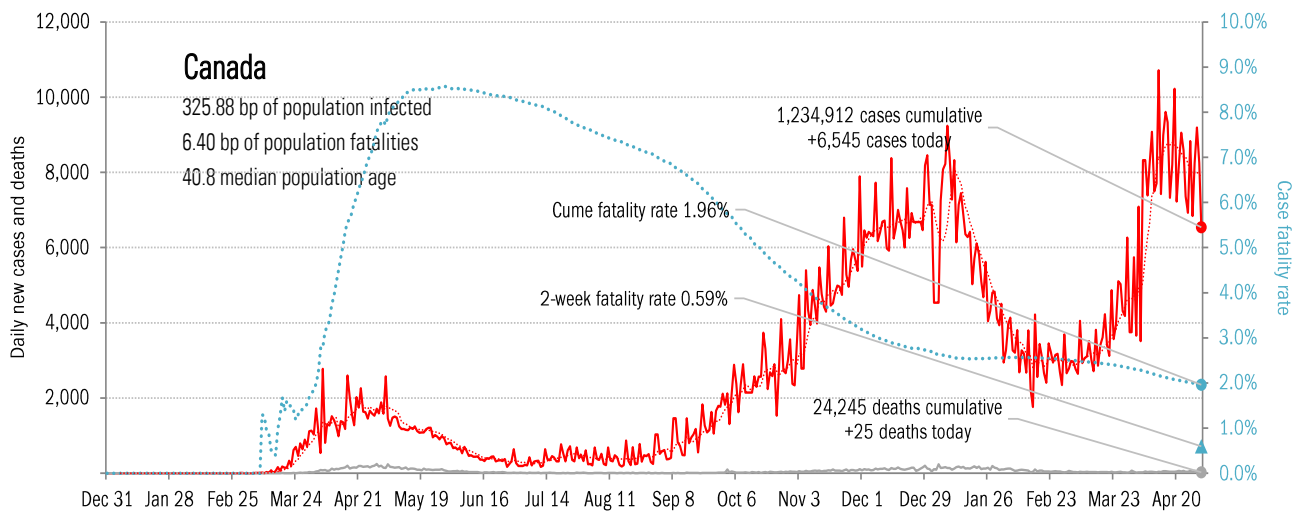
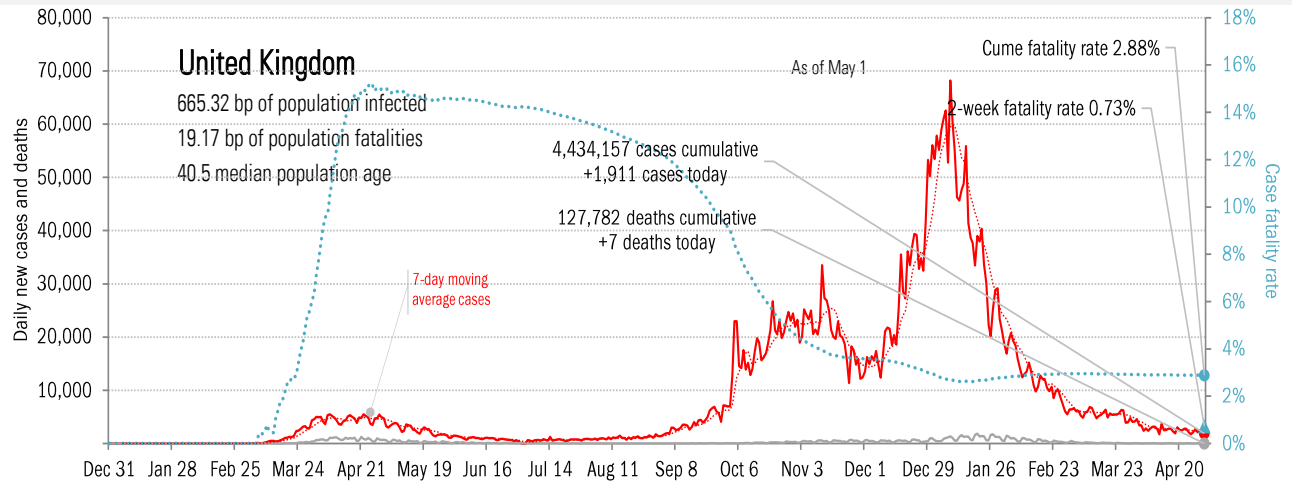
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



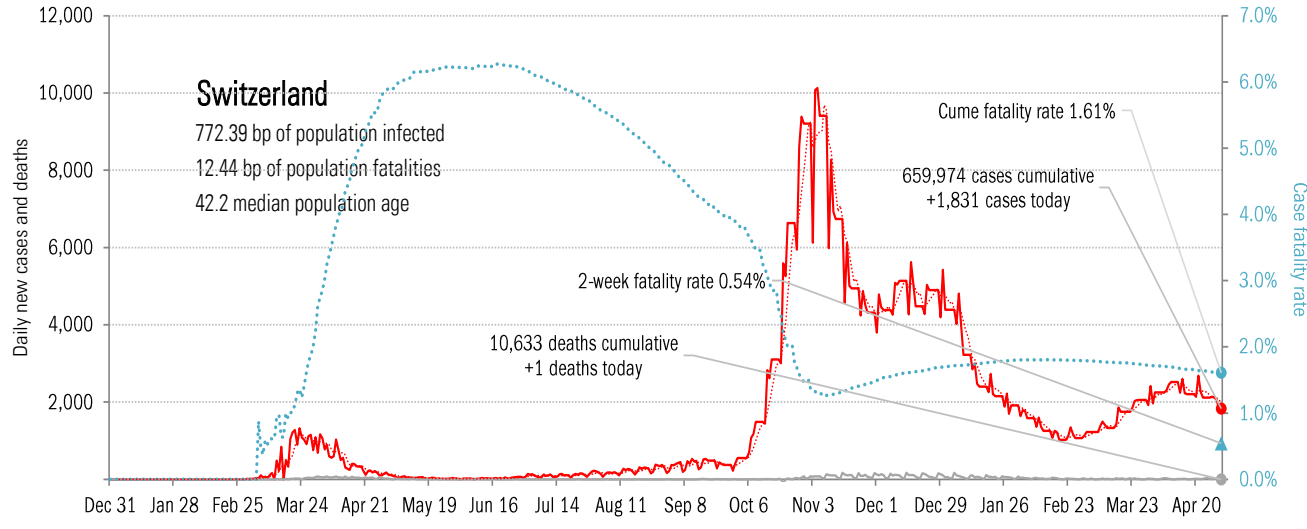
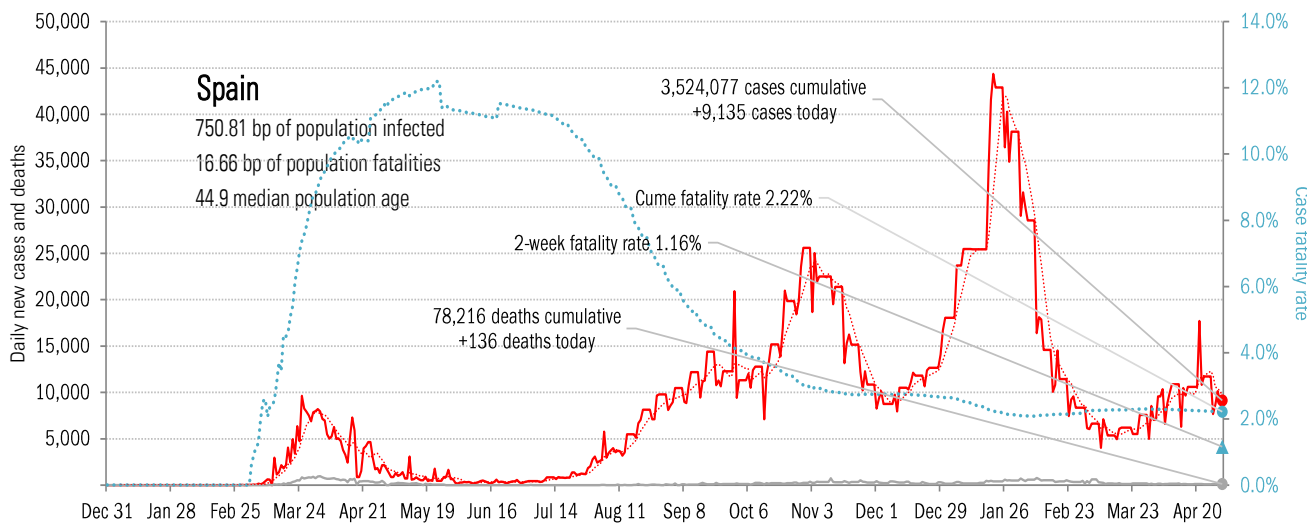
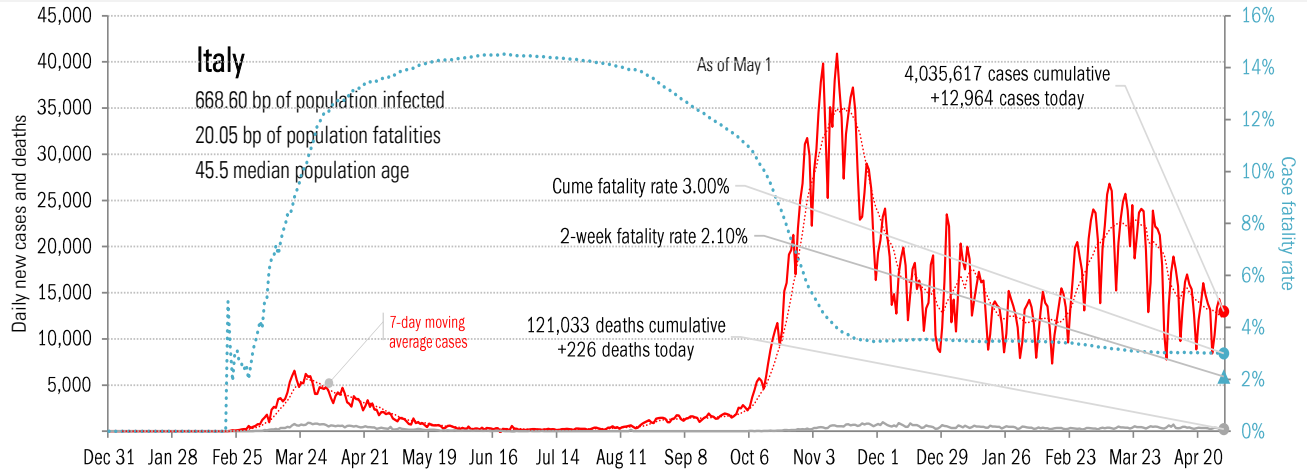
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



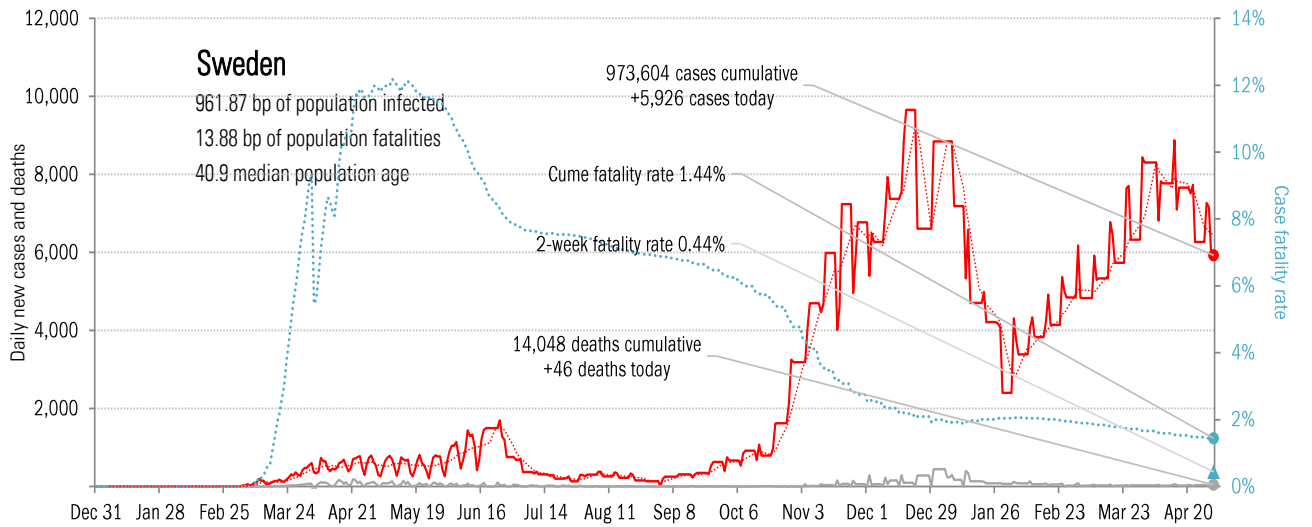
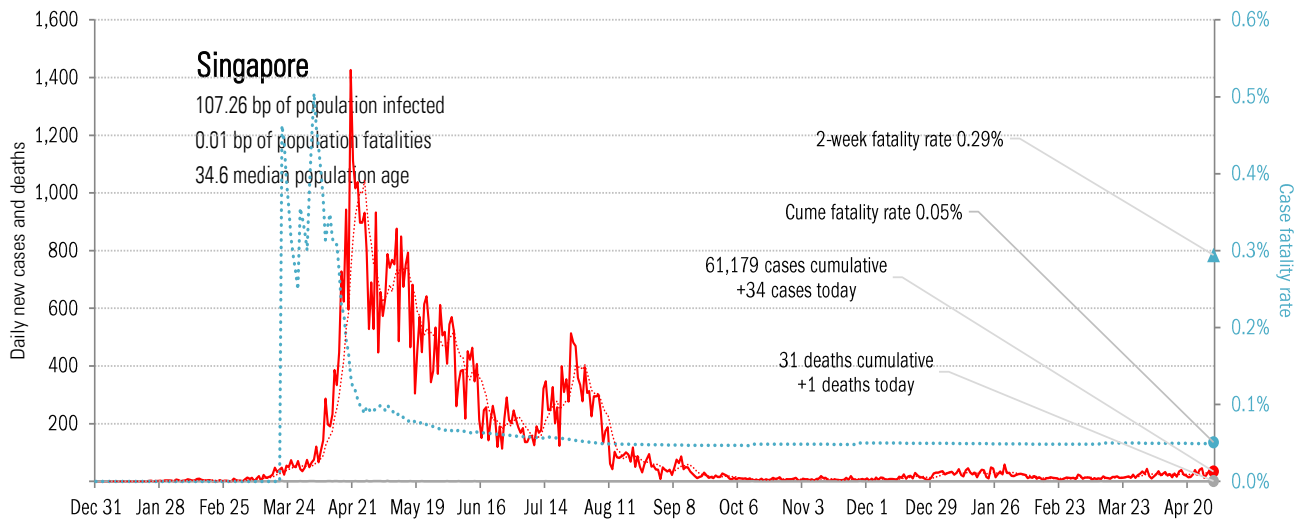
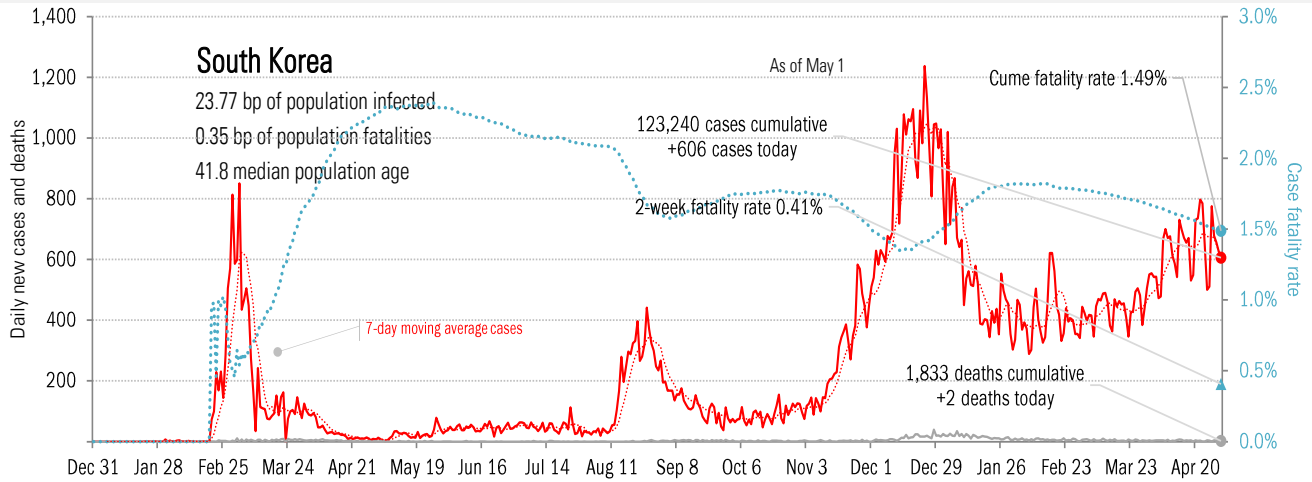
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



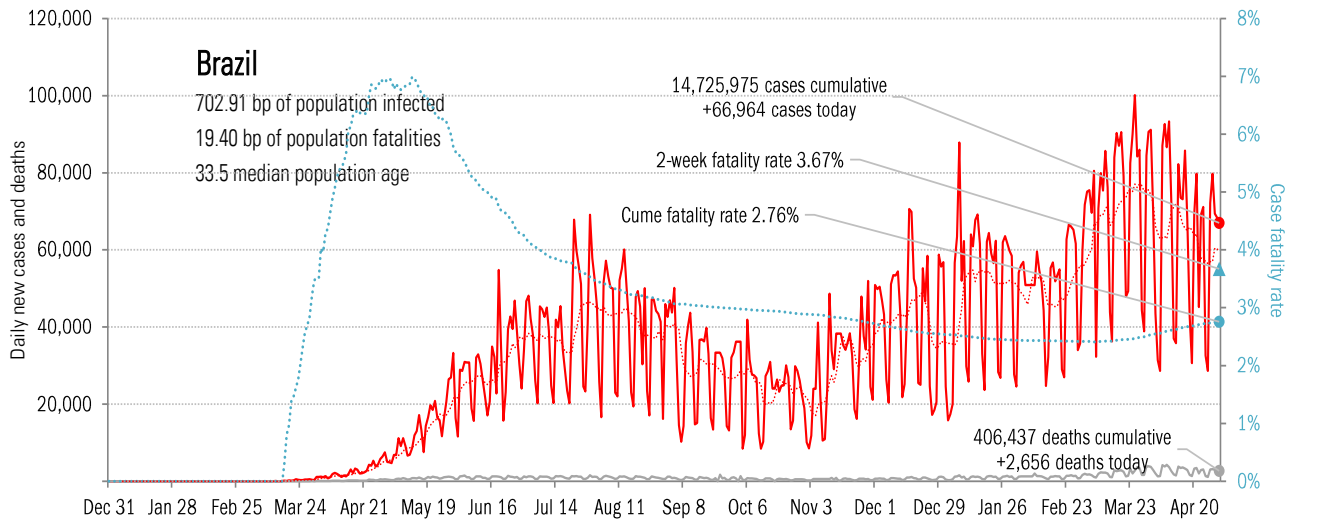
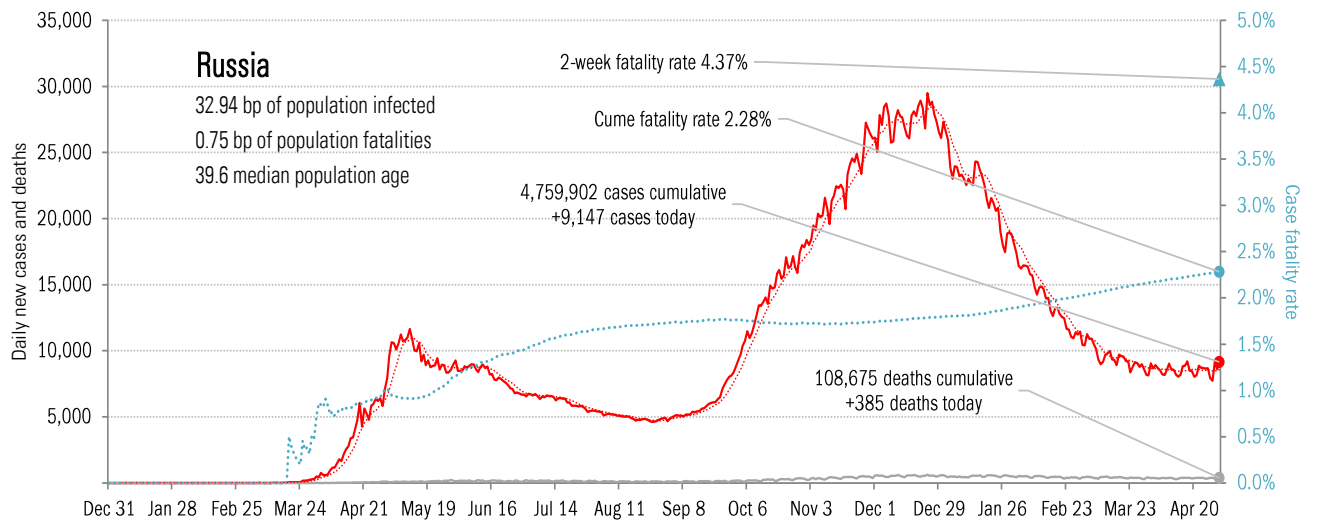
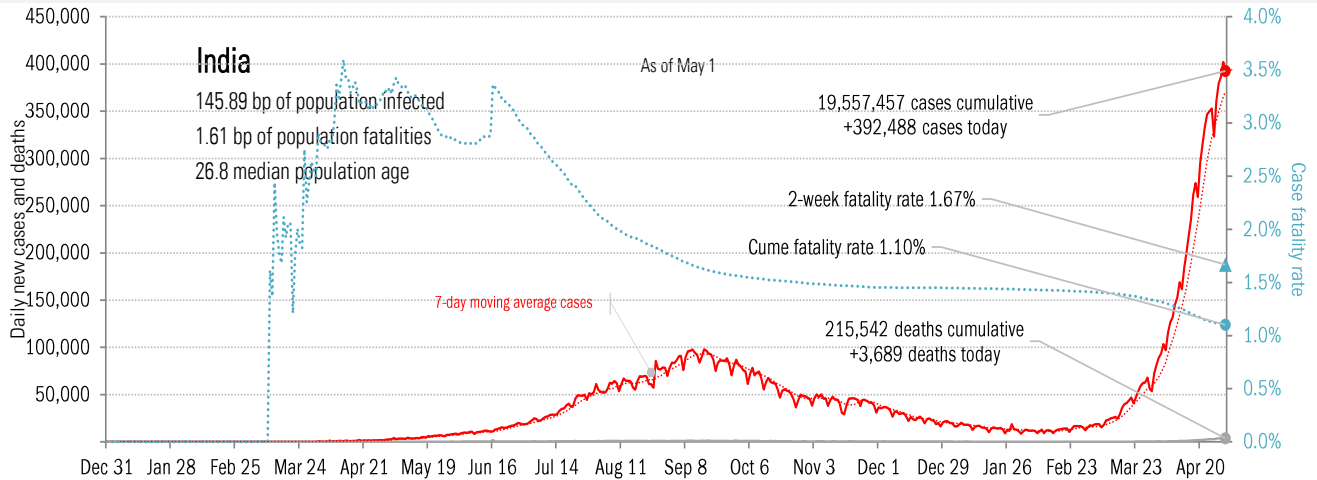
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



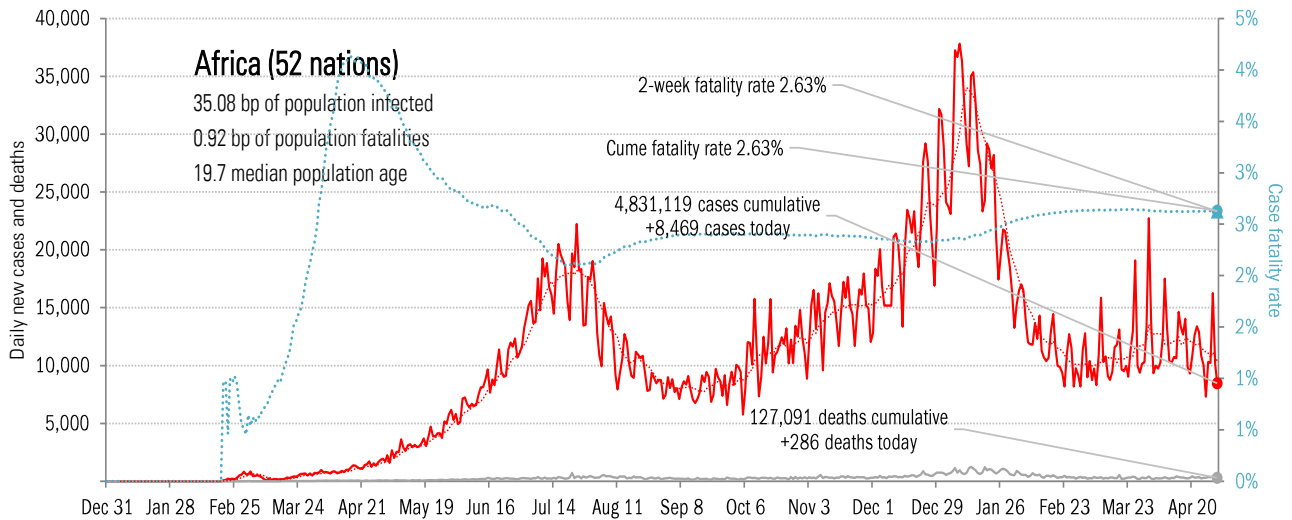
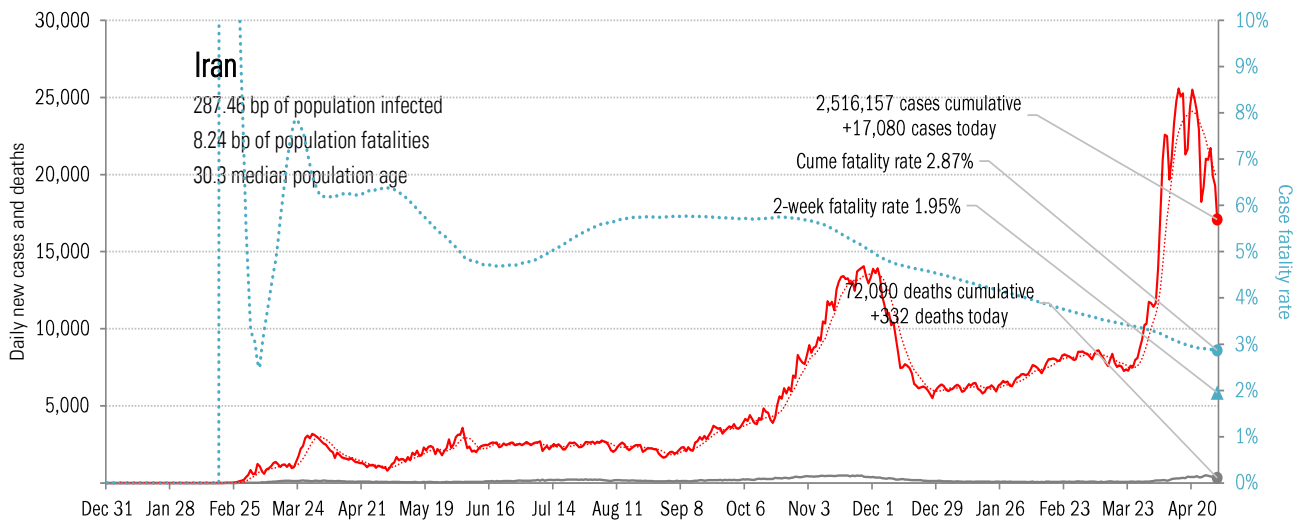
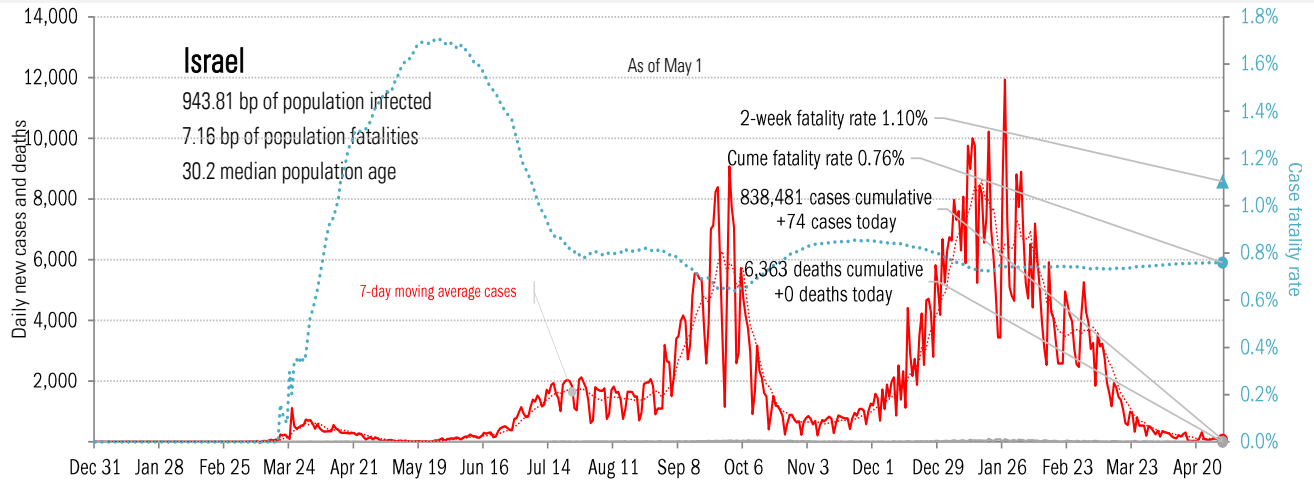
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



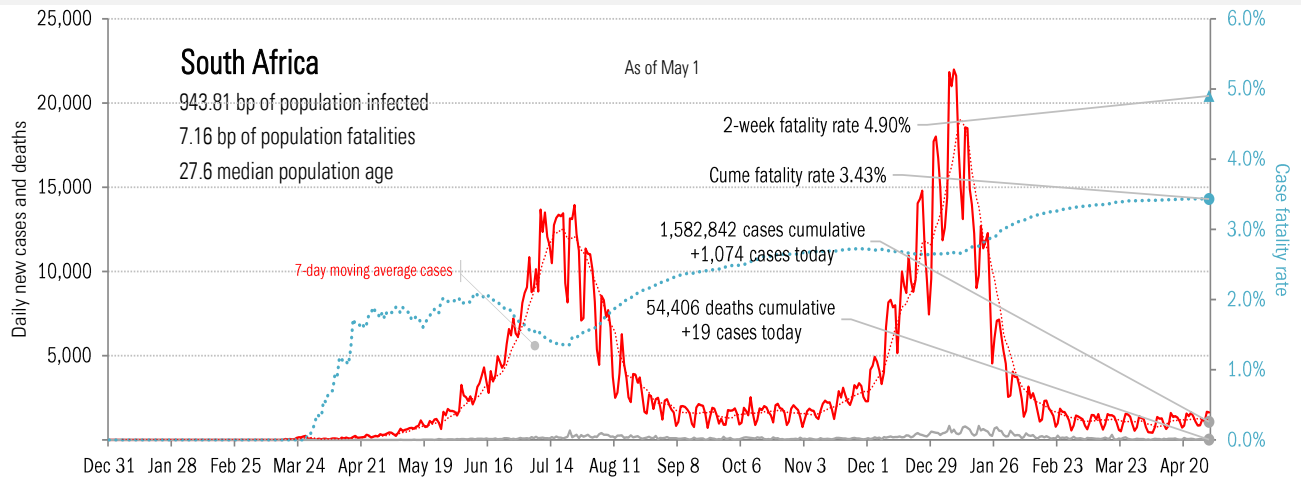
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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