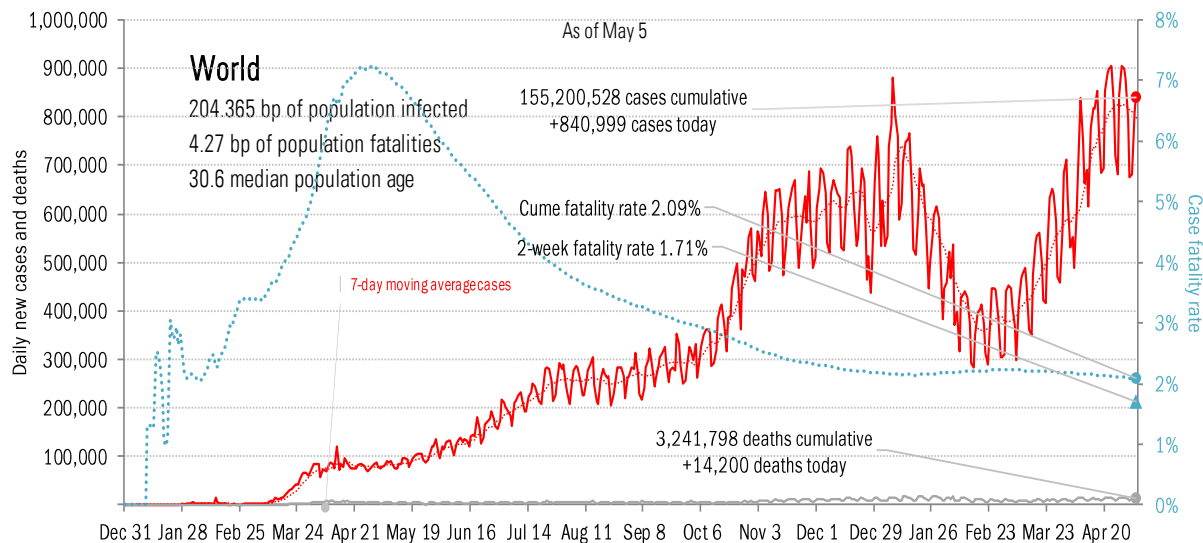
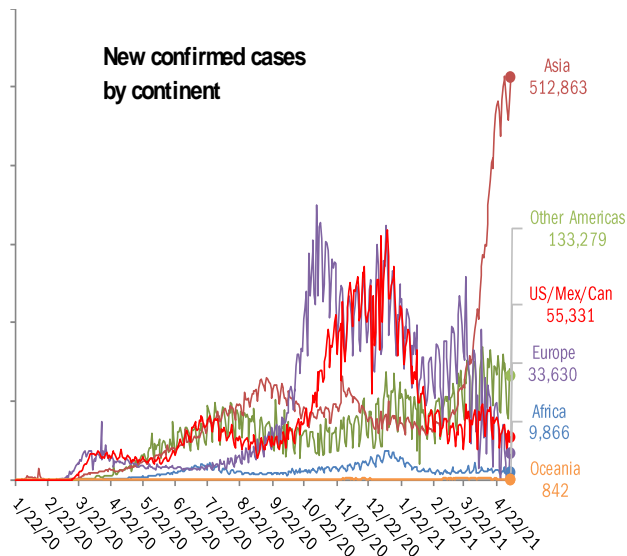


Data Insights: Covid-2019 Monitor

Thursday, May 6, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+412,431	India	+3,980
Brazil	+73,295	Brazil	+2,811
United States	+44,510	United States	+776
Turkey	+26,476	Argentina	+663
France	+26,004	Colombia	+388
Argentina	+24,079	Turkey	+356
Germany	+22,458	Russia	+352
Iran	+15,872	Iran	+349
Colombia	+14,806	Poland	+349
Italy	+10,579	Italy	+267
+670,510		+10,291	
World	+840,999	World	+14,200
Top ten	80%	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

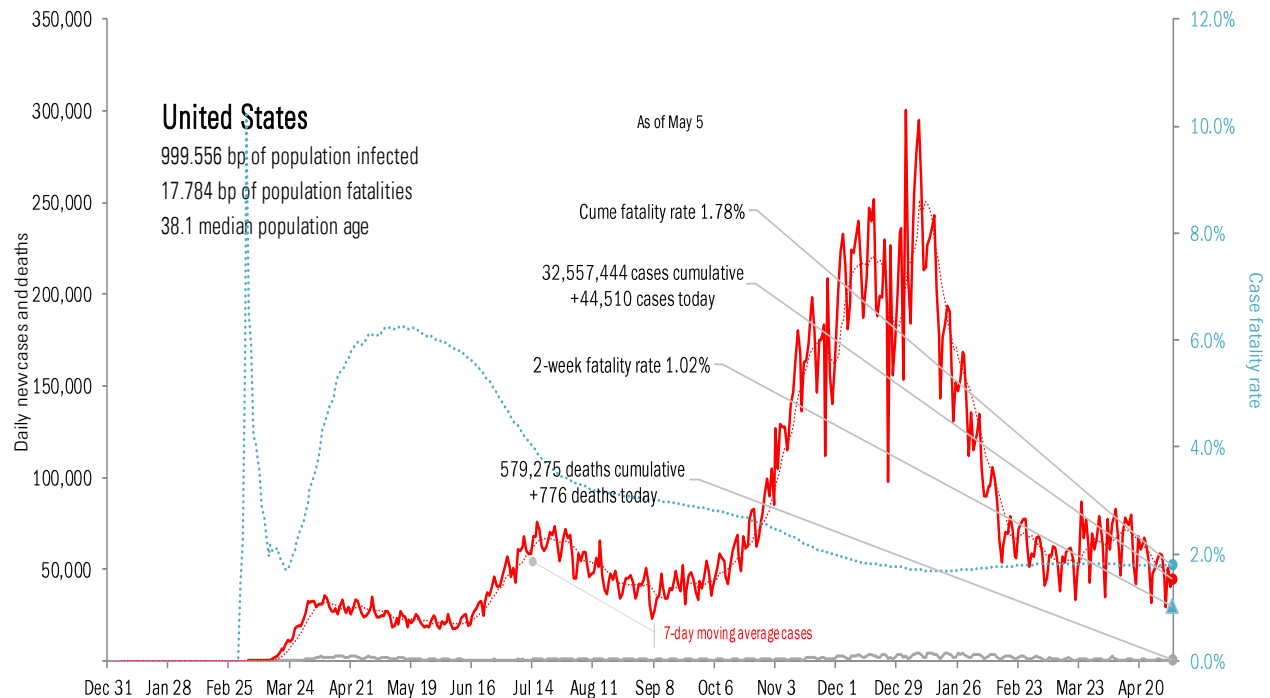
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
FL	+4,394		FL	+79		GA	+92		CA	3,750,644		CA	62,070		TX	238,313		RI	91%	MI	32%
MI	+3,047		TX	+60		LA	+58		TX	2,906,362		NY	52,538		CA	230,813		MA	84%	MD	22%
NJ	+2,528		NY	+55		NV	+33		FL	2,253,929		TX	50,471		FL	168,332		PA	82%	ME	19%
TX	+2,428		PA	+50		CA	+26		NY	2,061,887		FL	35,478		NY	128,946		CT	82%	RI	18%
IL	+2,419		NJ	+49		IL	+25		IL	1,346,294		PA	26,349		GA	101,032		MO	82%	MN	18%
NY	+2,402		MI	+45		TN	+22		PA	1,164,827		NJ	25,707		PA	84,578		MD	82%	CO	17%
PA	+2,370		OK	+44		KY	+19		GA	1,105,855		IL	24,443		CH	81,827		MI	81%	PA	16%
CO	+1,611		CA	+41		WV	+18		CH	1,078,734		GA	20,273		IL	76,129		GA	80%	ID	15%
NC	+1,468		IL	+33		AR	+17		NJ	1,004,525		CH	19,344		KY	72,134		MN	79%	WA	14%
CH	+1,450		GA	+32		CH	+12		NC	976,768		MI	19,100		MI	65,918		FL	78%	WV	14%
	+24,117			+488			+322			17,649,825			335,773			1,248,022					
All states	+44,510			+776			+7		All states	32,557,444			579,275			2,222,932		All states	70%		67%
Top ten	54%			63%			4600%		Top ten	54%			58%			56%		Median	72%		10%

Some states not reporting

Five most improved US states

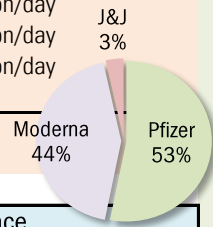
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-1,179	MI	-88	CR	-44	MD	+63 bp
LA	-531	CH	-60	IN	-27	NJ	+61 bp
PA	-271	MO	-53	WA	-25	NY	+60 bp
OK	-169	CA	-21	NM	-21	CT	+54 bp
GA	-160	TX	-20	FL	-19	CO	+54 bp



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
333.50 million doses distributed	+3.12 million/day	US	31.8%	74.1%
257.95 million doses administered	+1.83 million/day	UK	23.4%	74.7%
152.79 million persons partially immunized	+0.68 million/day	France	10.3%	34.3%
110.86 million persons fully immunized	+1.20 million/day	Spain	11.5%	38.3%
		Germany	8.3%	37.6%
		Italy	10.8%	35.8%
		Australia	1.5%	9.1%
		Israel	58.5%	121.0%
		Canada	3.1%	37.9%
		Japan	0.8%	2.8%
		Africa	0.4%	1.4%
		India	2.1%	11.4%
		Brazil	6.9%	21.3%



77.3% of distributed doses administered
45.7% of US pop partial 33.2% full immunity

At today's dosing pace, every American >18 immune in **123 days** by Sep 4, 2021
52.6% of population >18 immunized
13.7% previously tested positive
66.3% vs 60% adult herd immunity

Global data differs from sources, timing

AK
56.6%
42.3%
36.2%

State
Immunities distributed as % population**
At least partial immunity as % population
Full immunity as % population



ME
57.3%
56.1%
42.0%

WA	ID	MT	ND	MN	IL	MI	NY	MA	VT	NH
53.0%	43.3%	50.1%	44.8%	49.1%	52.2%	52.5%	53.0%	59.6%	61.1%	53.9%
48.0%	34.6%	41.4%	39.6%	48.2%	47.6%	43.5%	48.9%	58.0%	58.4%	61.2%
34.1%	28.2%	33.3%	33.4%	36.1%	31.8%	33.6%	37.0%	39.0%	40.2%	30.3%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
52.0%	44.5%	44.7%	54.3%	48.3%	44.5%	48.6%	54.9%	54.2%	59.3%	58.6%
46.2%	40.4%	34.4%	45.2%	44.9%	36.9%	41.1%	51.2%	52.8%	56.2%	53.8%
32.6%	29.4%	28.6%	38.3%	36.1%	28.3%	33.7%	34.1%	38.4%	41.1%	38.9%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
54.5%	43.7%	51.8%	49.6%	46.2%	47.7%	49.3%	52.3%	55.1%	55.4%	
50.1%	40.5%	47.6%	43.8%	38.3%	41.6%	36.0%	48.4%	49.9%	47.9%	
32.4%	25.5%	34.8%	34.7%	28.9%	32.9%	31.0%	35.0%	36.1%	34.8%	
AZ	NM	KS	AR	TN	NC	SC	DC			
50.3%	52.8%	50.1%	46.7%	43.3%	50.9%	47.8%	66.7%			
41.5%	52.0%	43.1%	36.1%	34.9%	39.9%	37.1%	49.5%			
30.2%	39.3%	32.9%	26.6%	25.8%	30.9%	28.5%	31.8%			
OK	LA	MS	AL	GA						
50.4%	42.3%	44.2%	45.3%	48.6%						
39.0%	32.4%	31.6%	33.0%	35.6%						
30.6%	26.9%	24.5%	24.5%	26.0%						
HI	TX						FL			PR
56.4%	49.4%						53.4%			55.1%
54.1%	39.0%						42.8%			39.5%
37.0%	28.4%						30.5%			26.1%

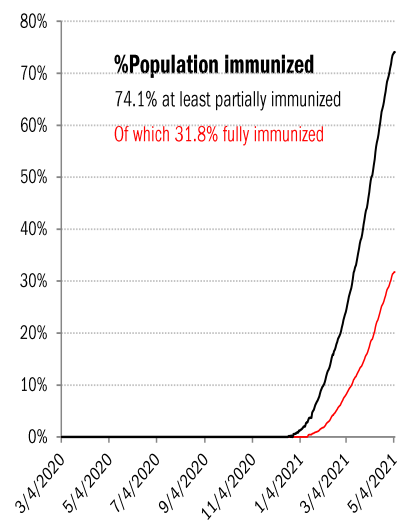
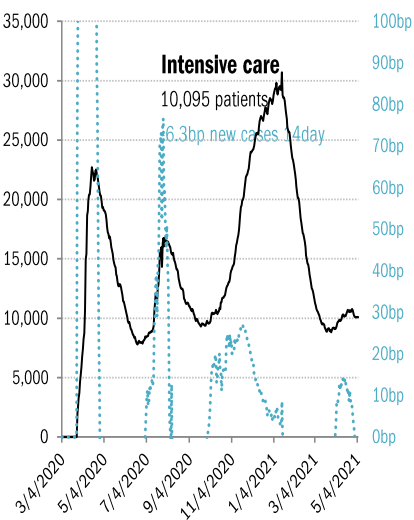
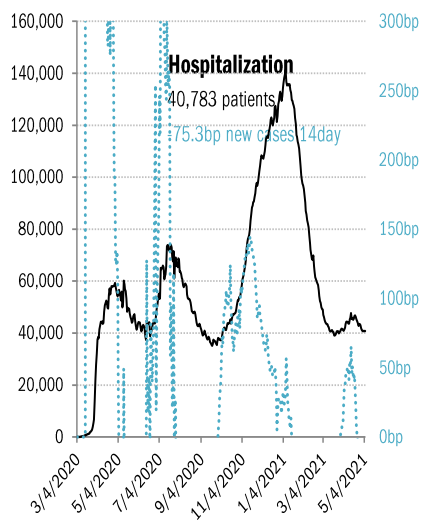
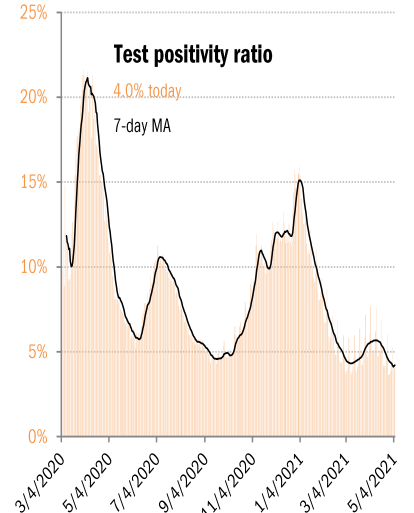
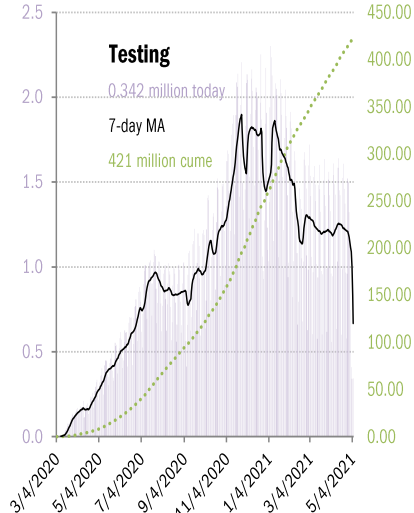
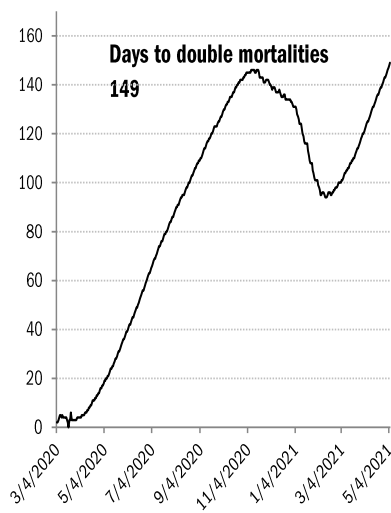
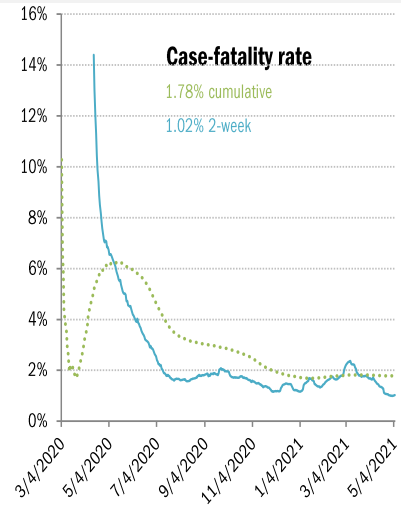
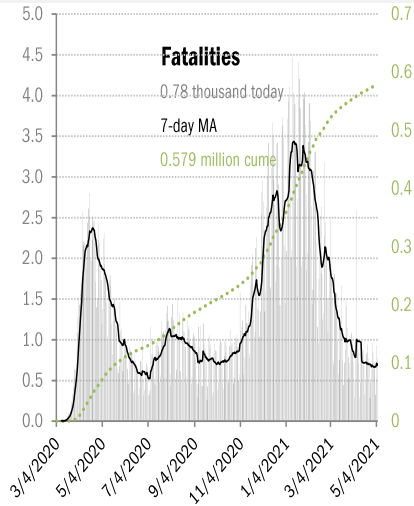
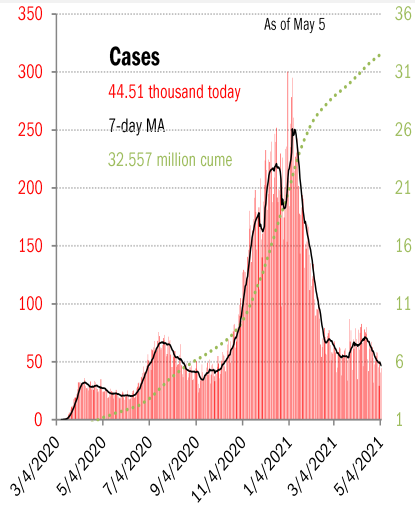
As of May 5

** 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

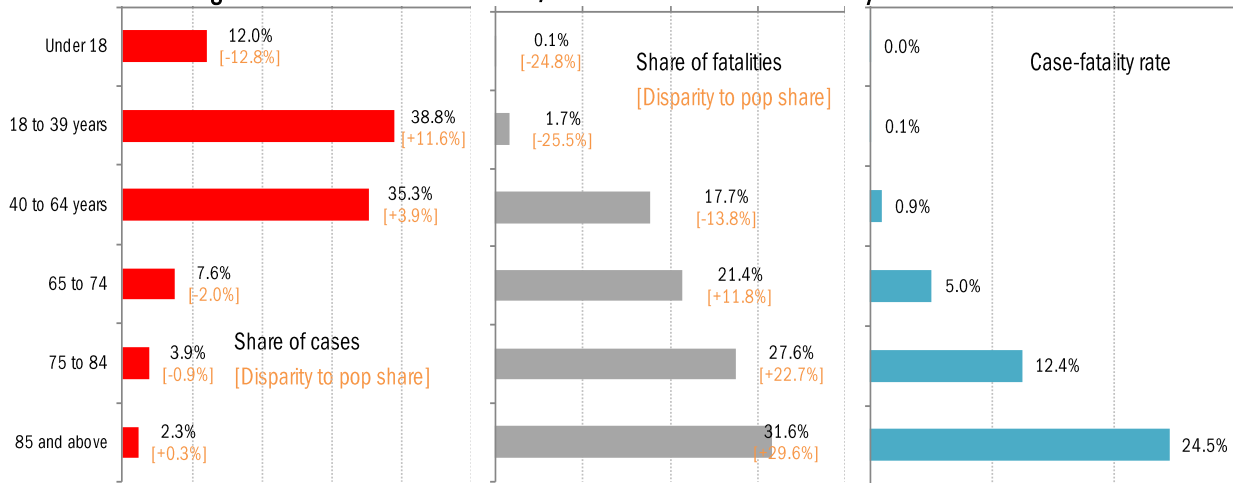
National and state-by-state data do not line up because of different sources



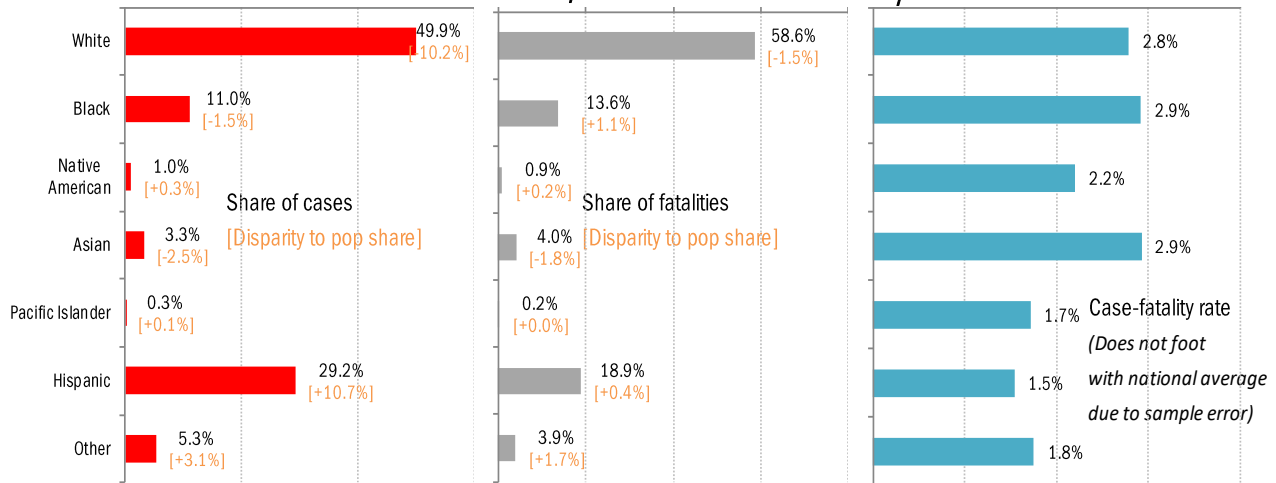
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

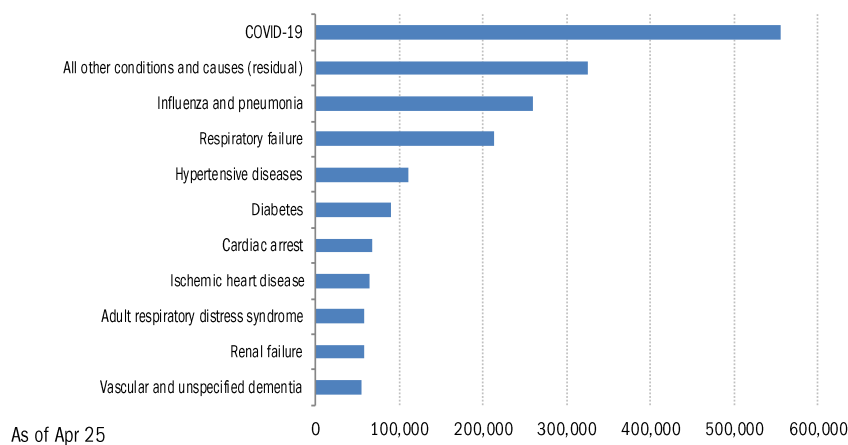


Racial distribution of US cases, fatalities and case-fatality rates



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 origin of COVID: Did people or nature open Pandora's box at Wuhan?](#)

Nicholas Wade
Bulletin of the Atomic Scientists
May 5, 2021

[Imperial College Predicted Catastrophe in Every Country on Earth. Then the Models Failed.](#)

Phillip W. Magness
American Institute for Economic Research
May 5, 2021

[Adults Race to Straighten Their Teeth, Bracing for Pandemic's End](#)

Kathryn Dill
Wall Street Journal
May 5, 2021

[German Intelligence Puts Coronavirus Deniers Under Surveillance](#)

Christopher F. Schuetze
New York Times
April 28, 2021

[Federal Judge Invalidates National Eviction Moratorium](#)

Andrew Ackerman
Wall Street Journal
May 5, 2021

[World's Most Vaccinated Nation Activates Curbs as Cases Rise](#)

Kamlesh Bhuckory and Antony Sguazzino
Bloomberg
May 4, 2021

[Masks at summer camp? That's crazy](#)

Joanne Jacobs
Linking and Thinking on Education
May 5, 2021

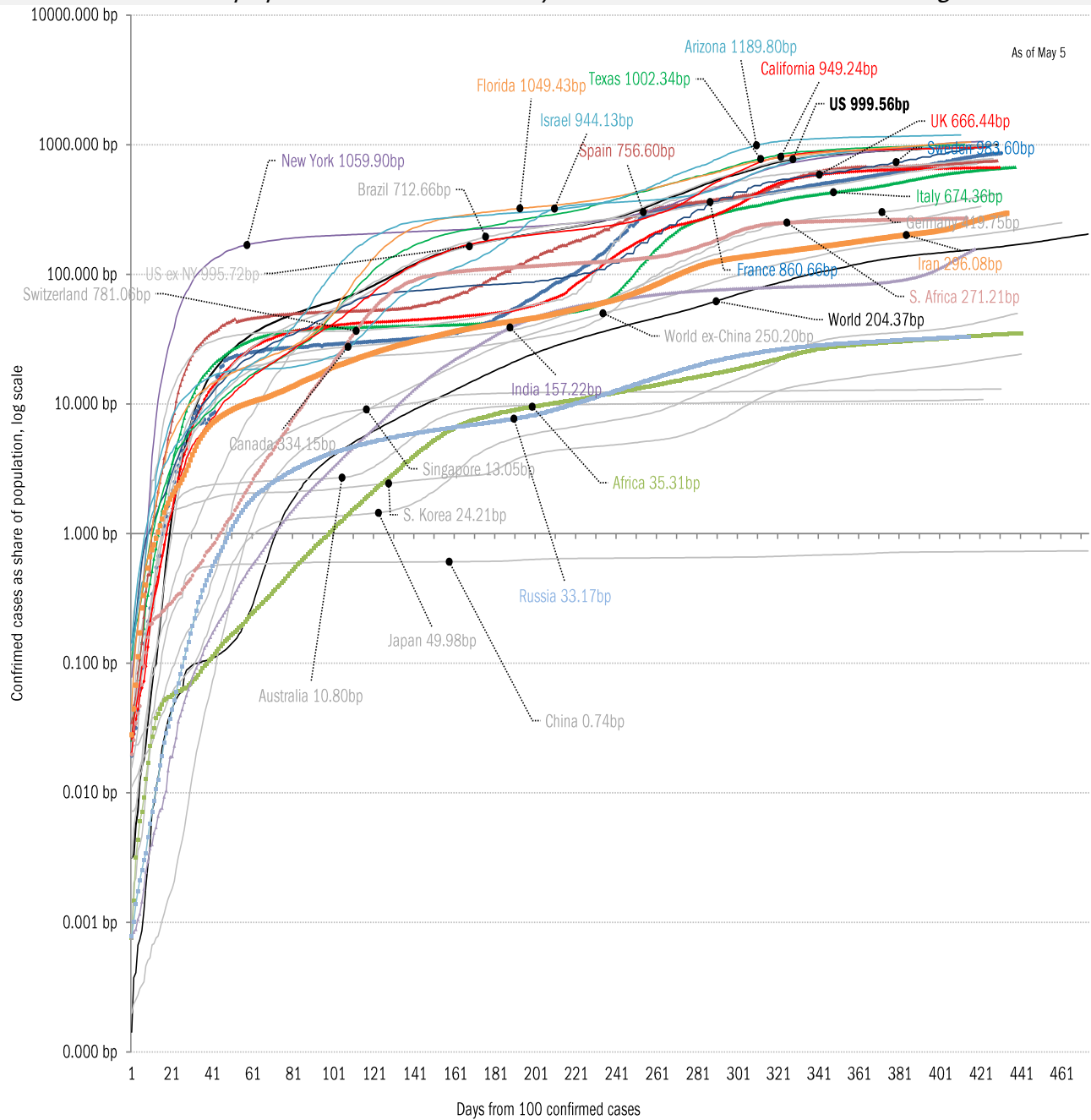
Meme of the day

Gov Cooper, announcing school will remain closed through summer



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

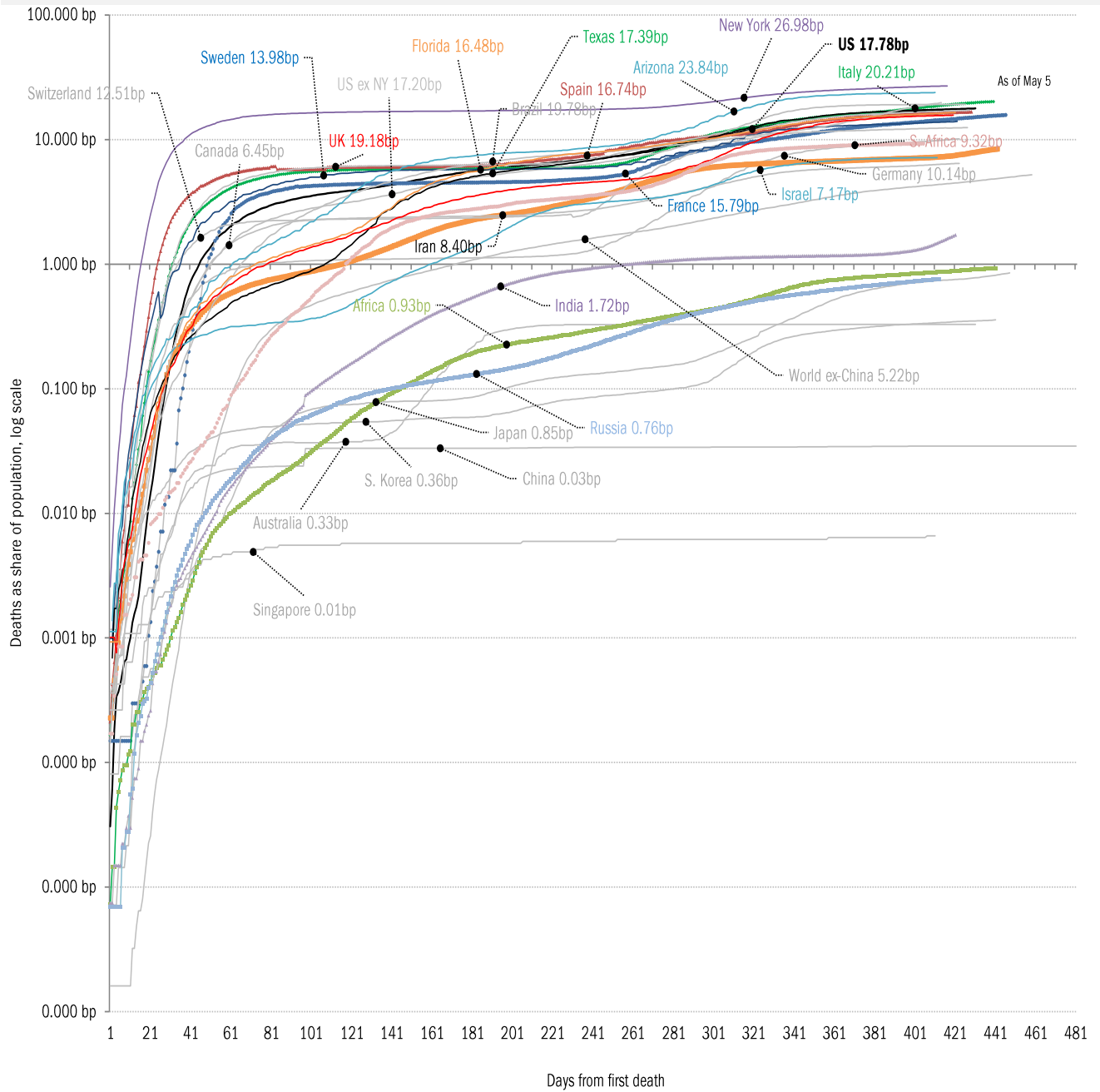
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

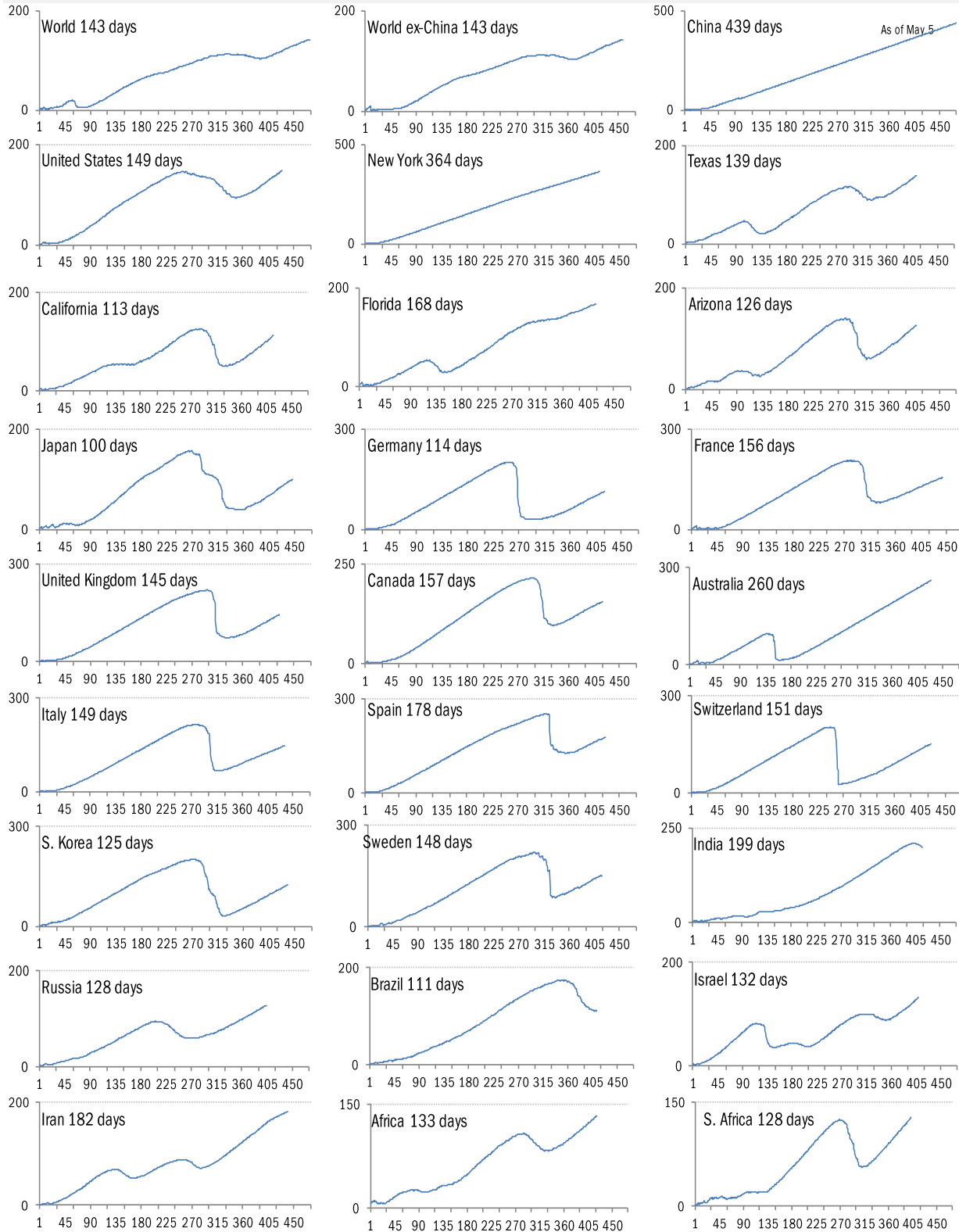


Source: [Johns Hopkins](#), TrendMacro calculations

"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

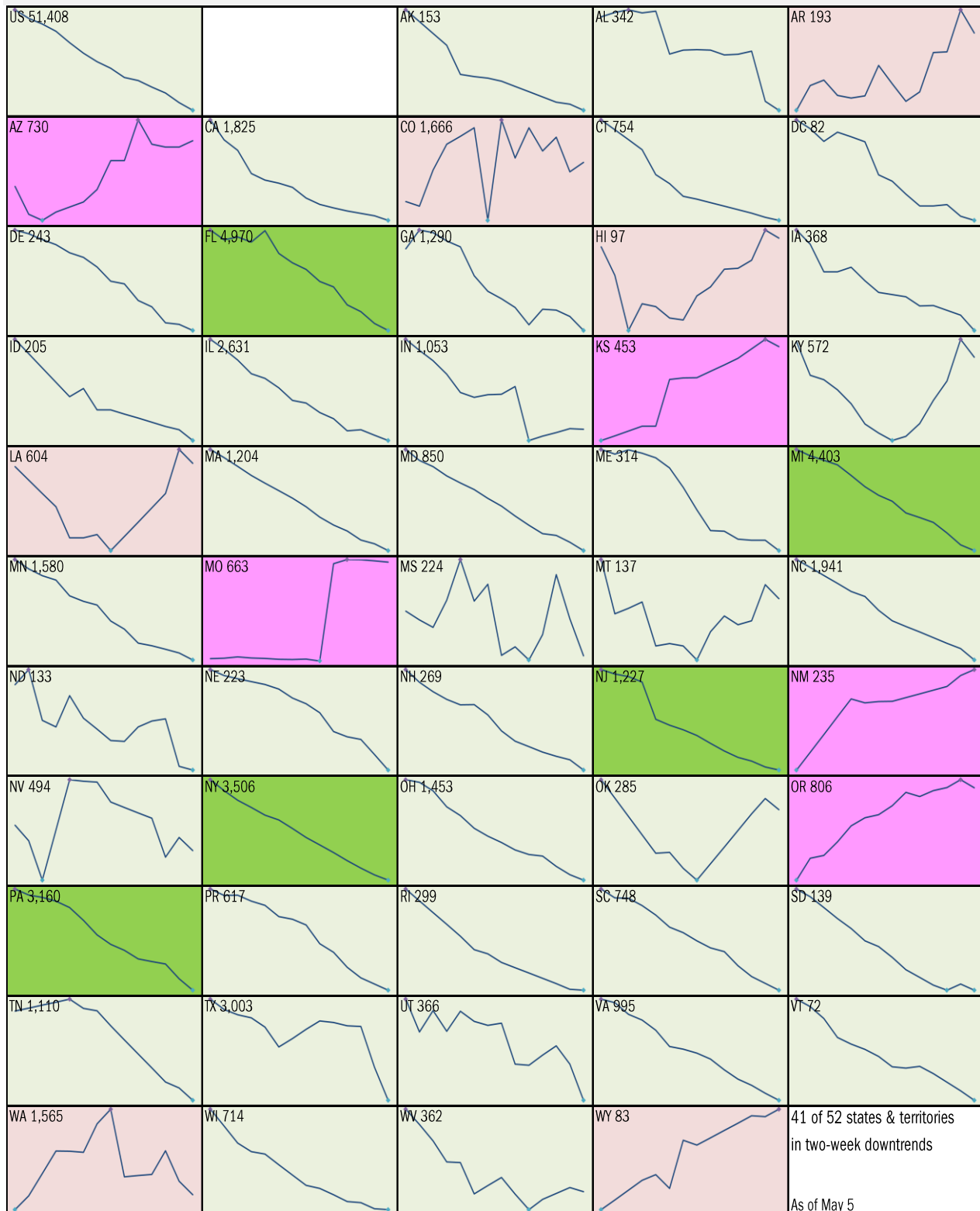


Source: [Johns Hopkins](#), TrendMacro calculations

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

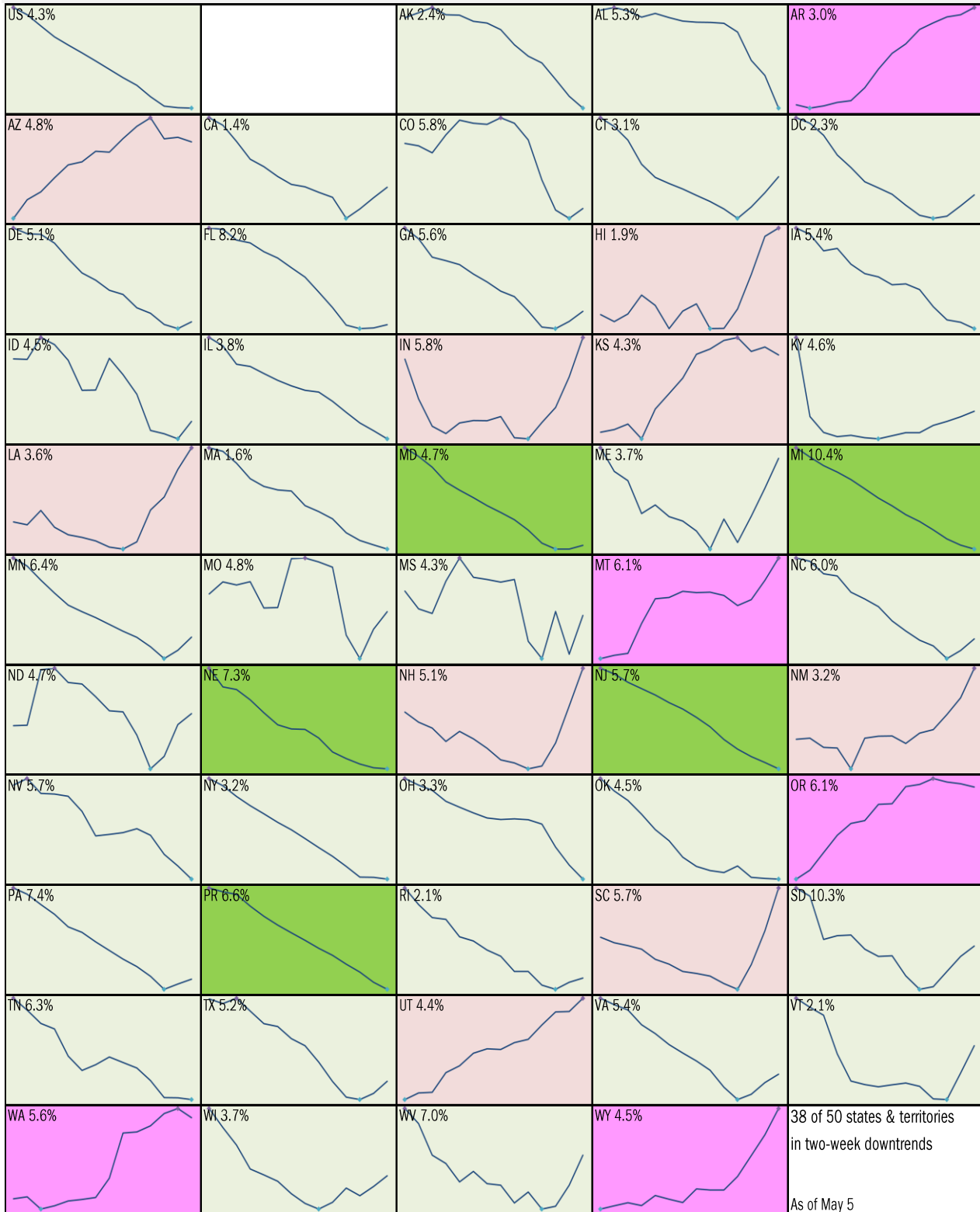


Source: [Johns Hopkins](#), TrendMacro calculations

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

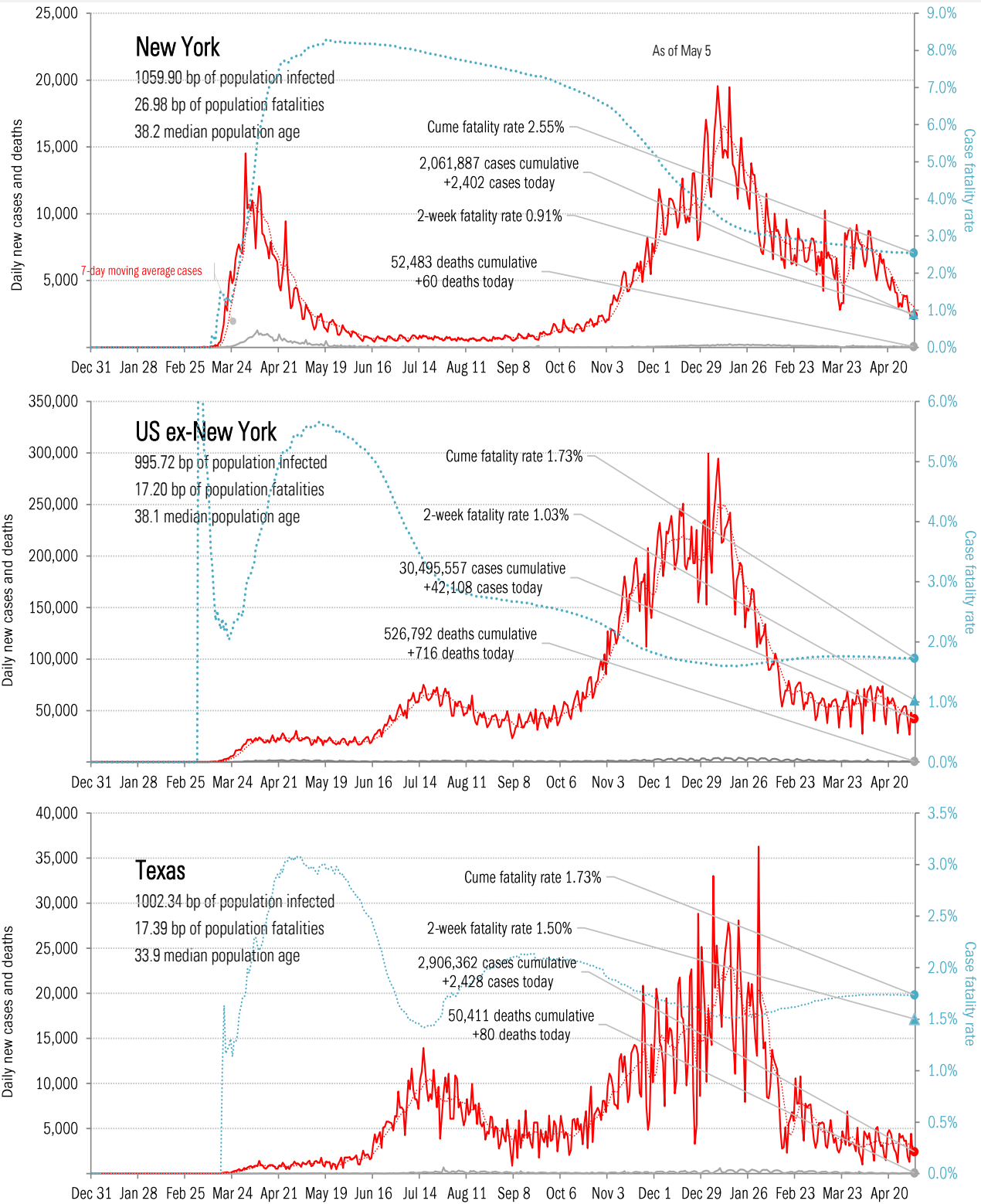
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



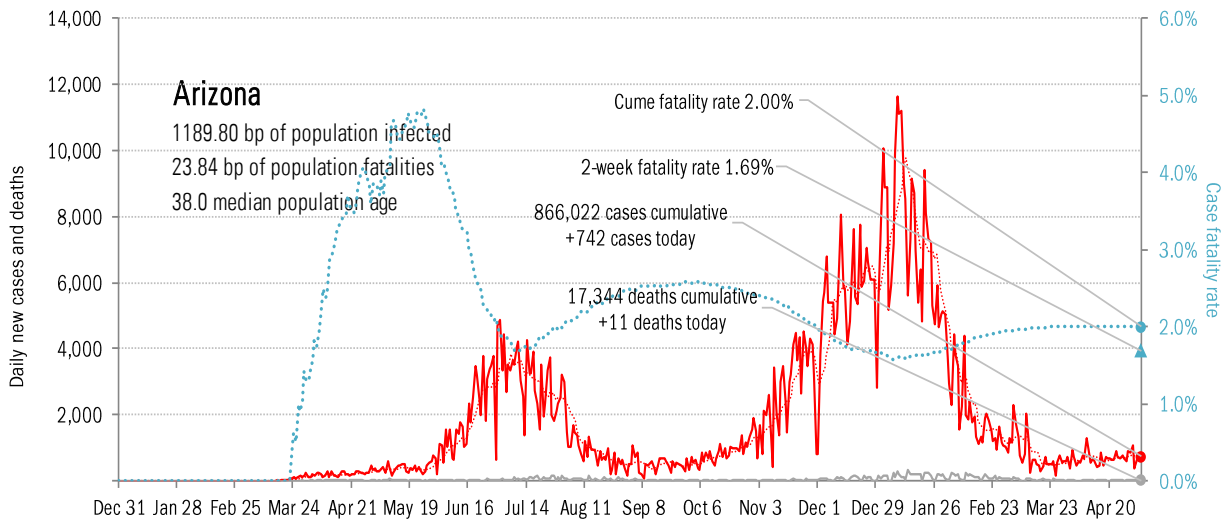
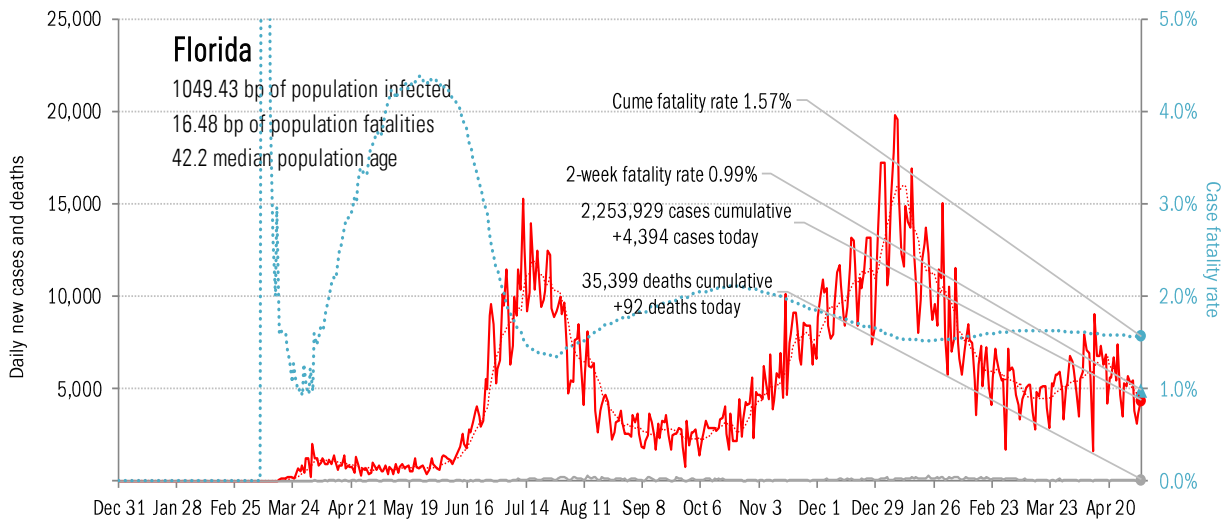
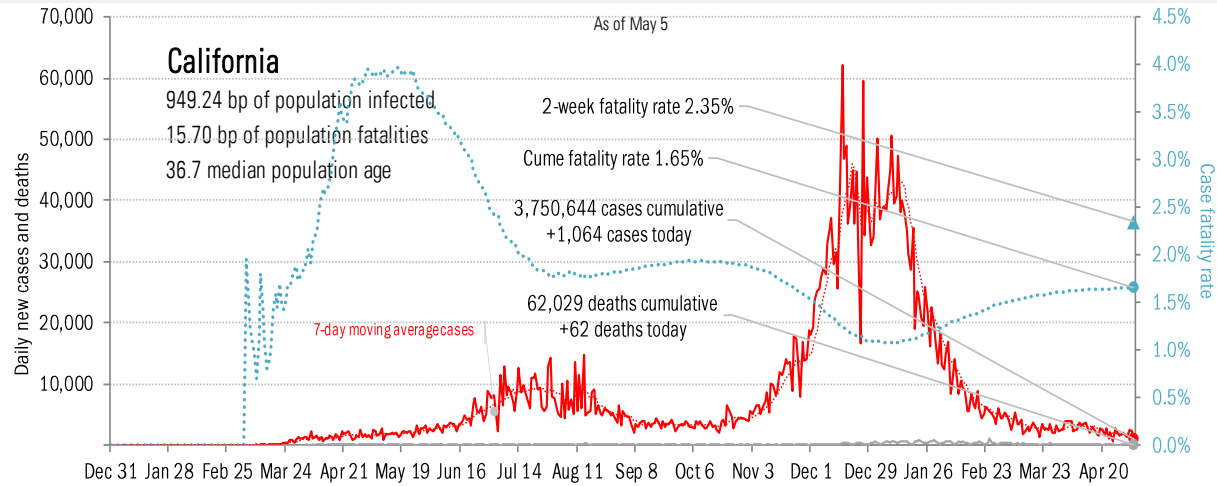
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



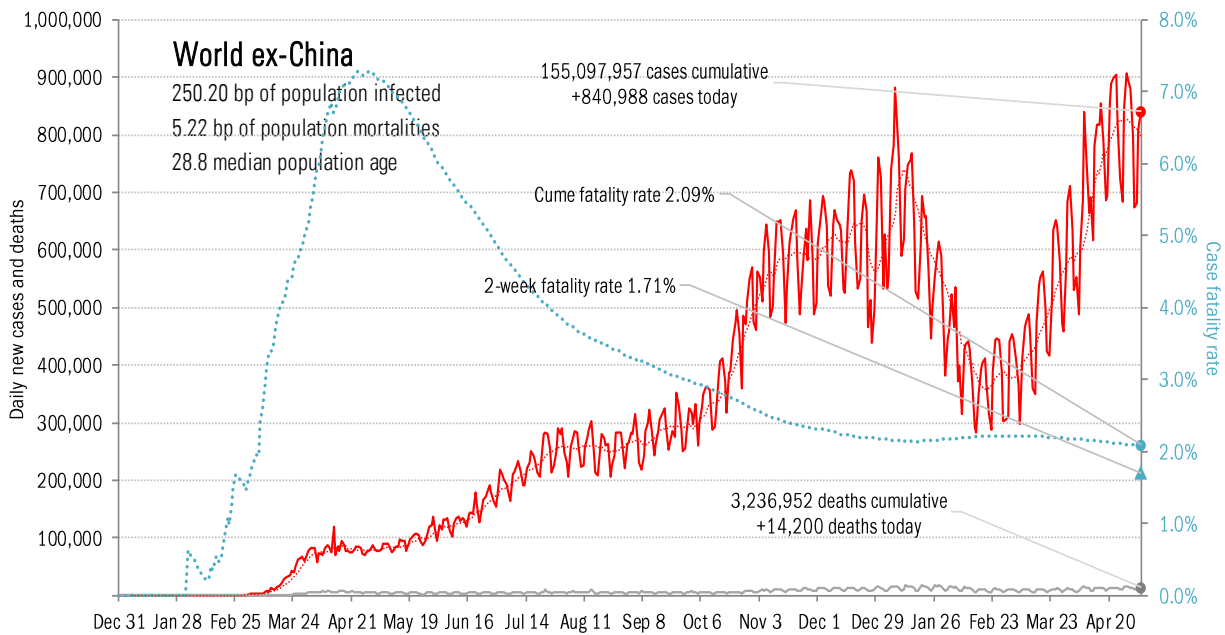
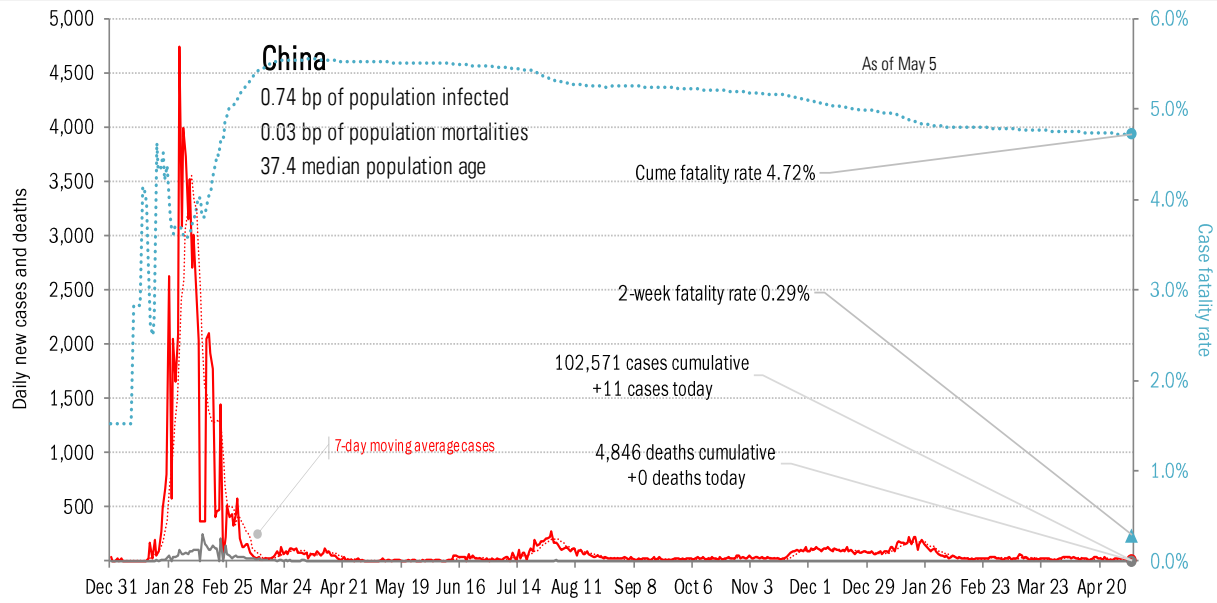
Source: [Johns Hopkins](#), TrendMacro calculations

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



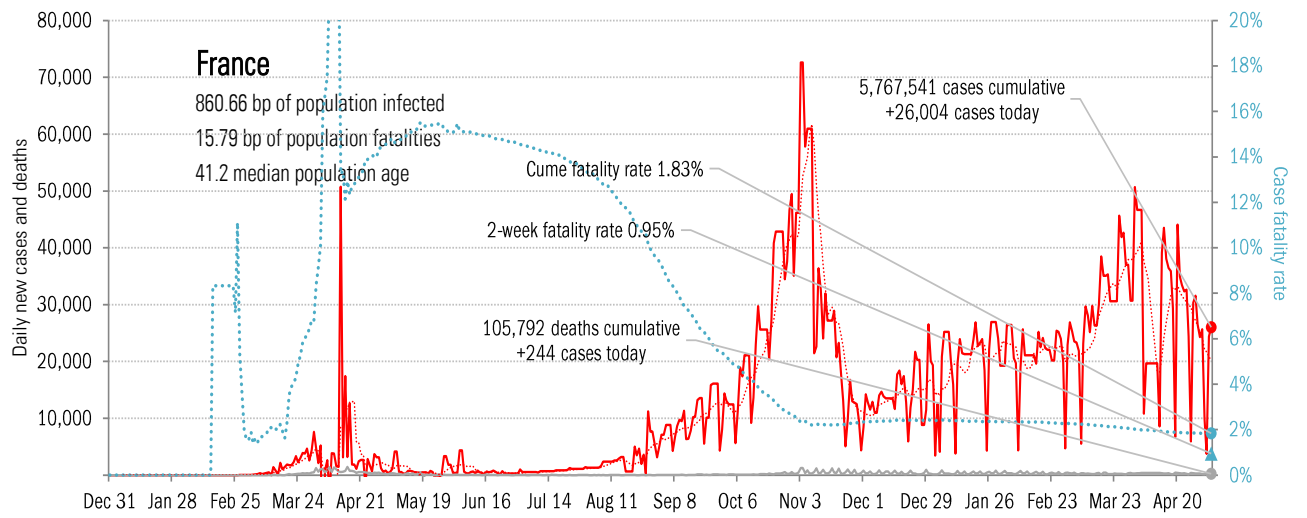
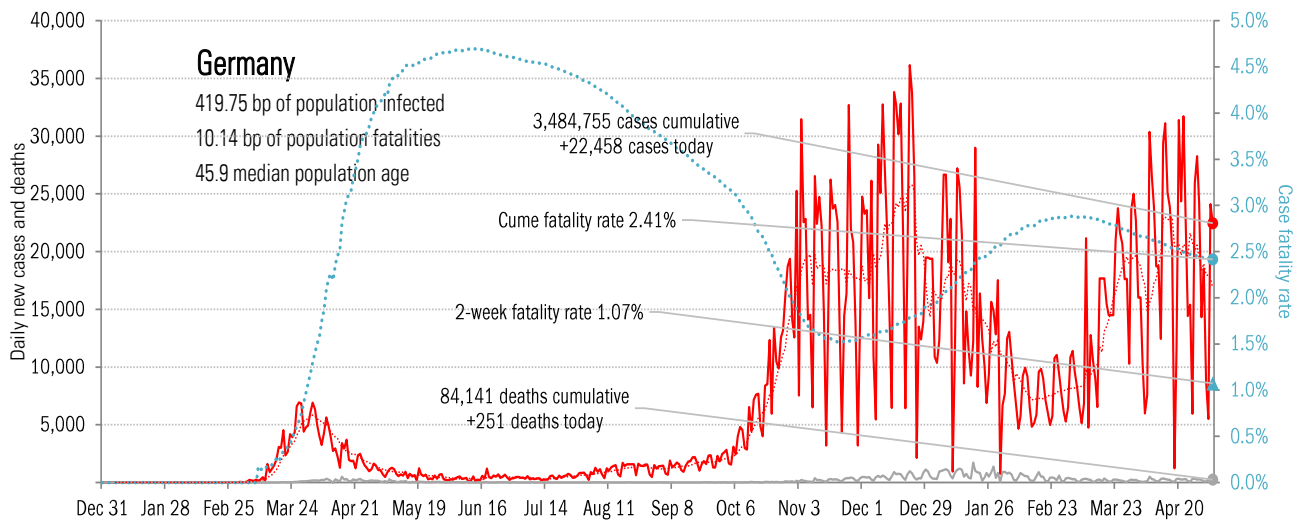
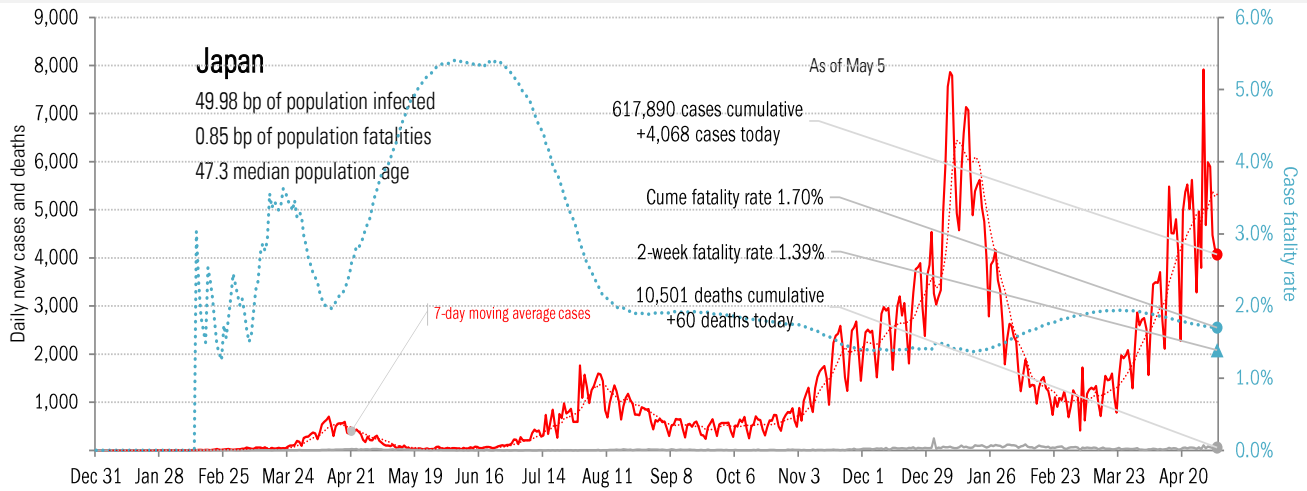
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



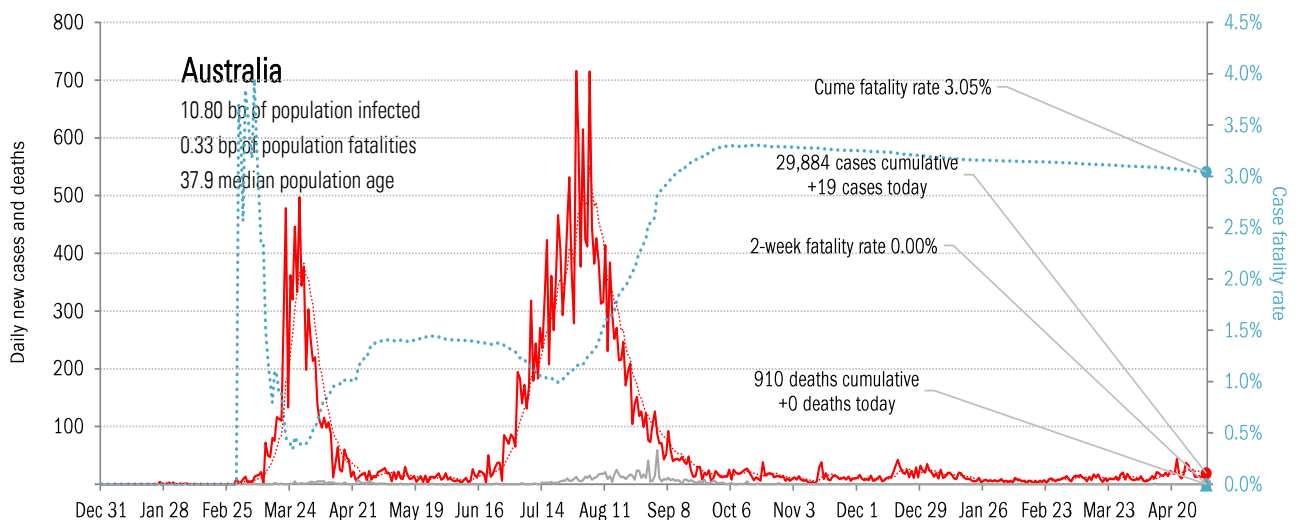
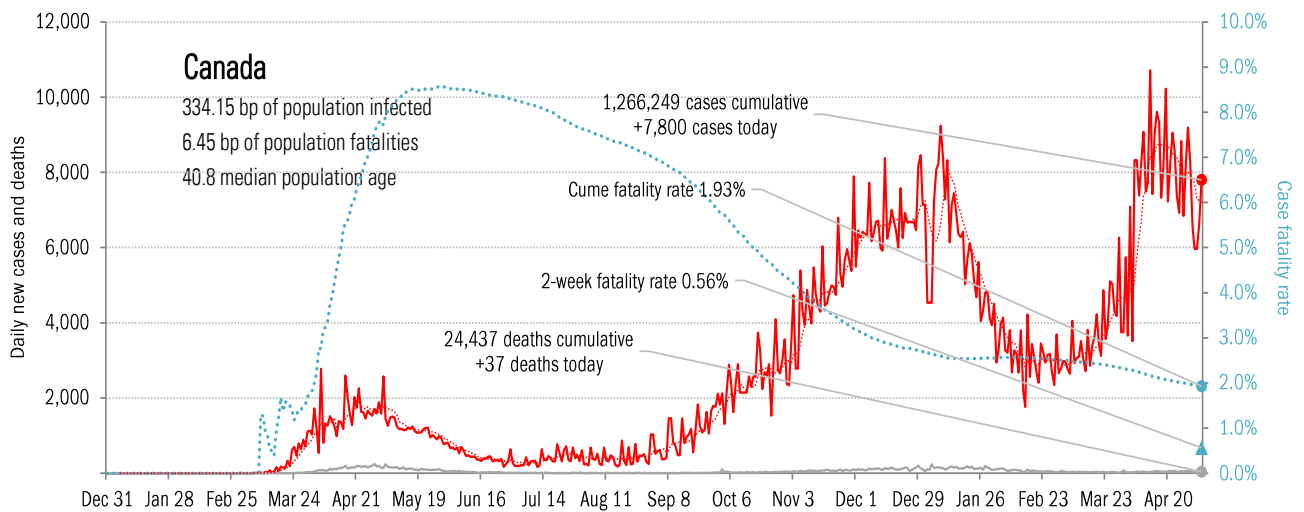
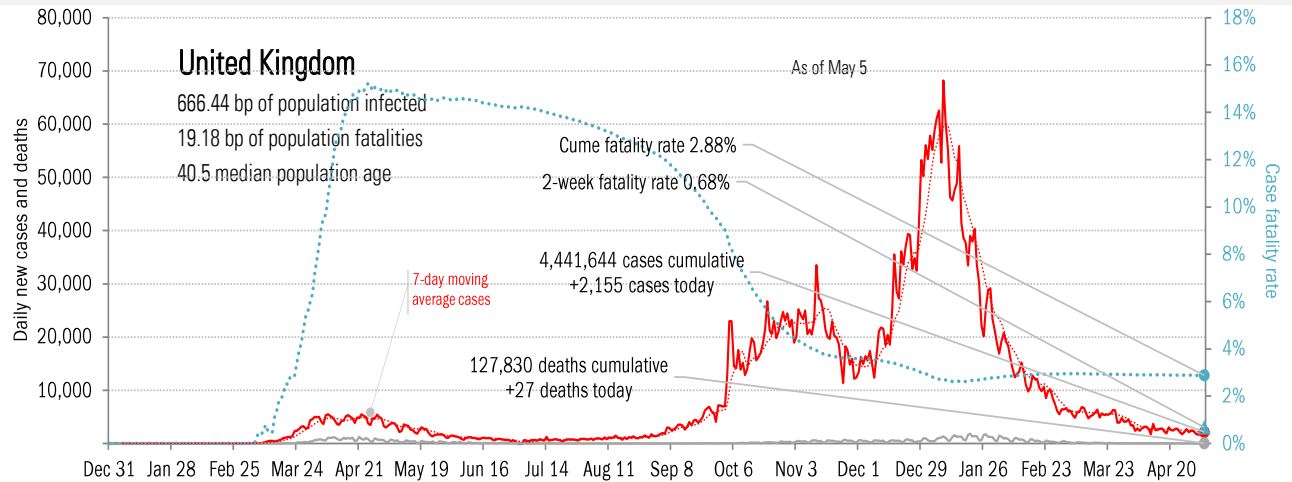
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



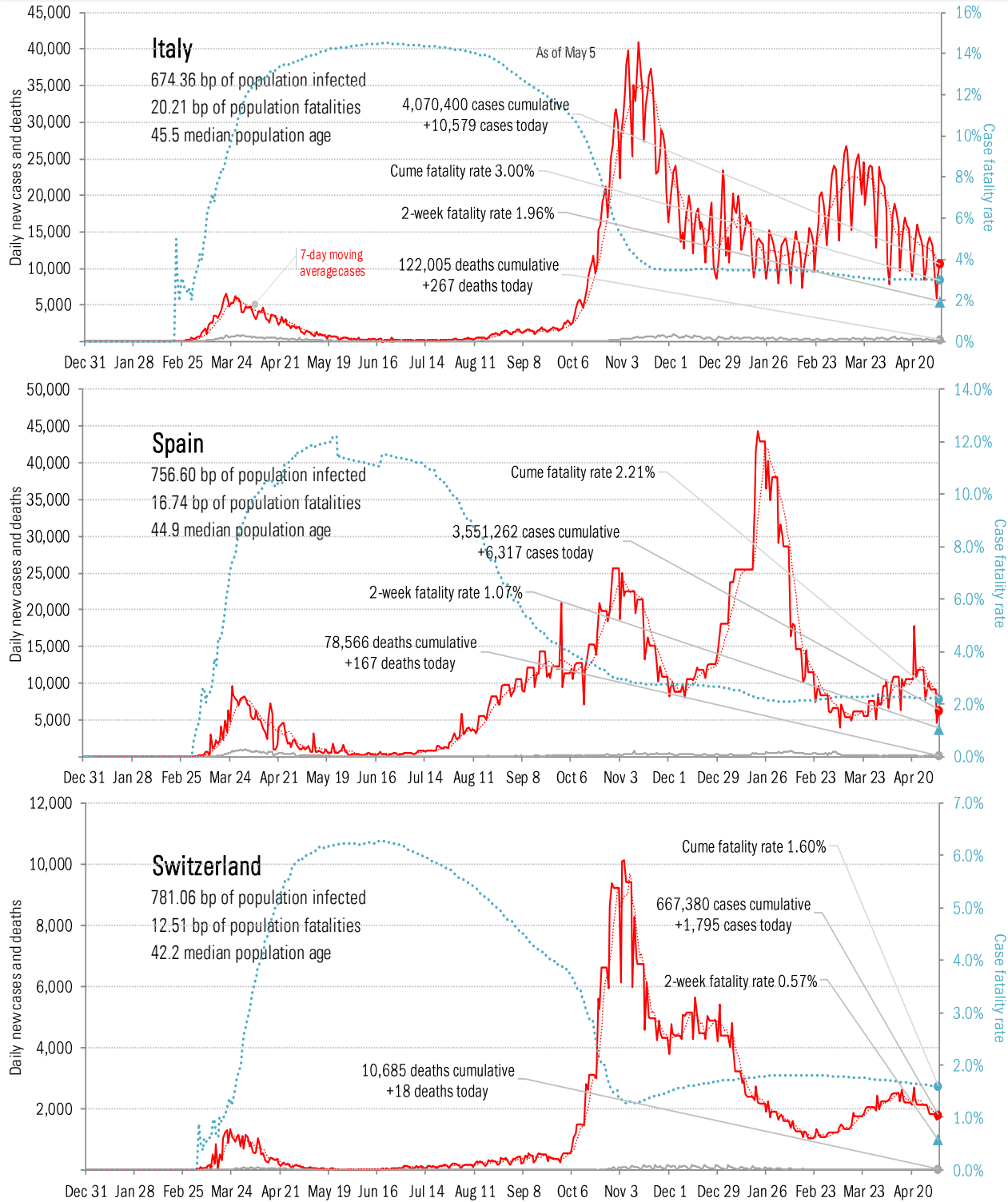
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



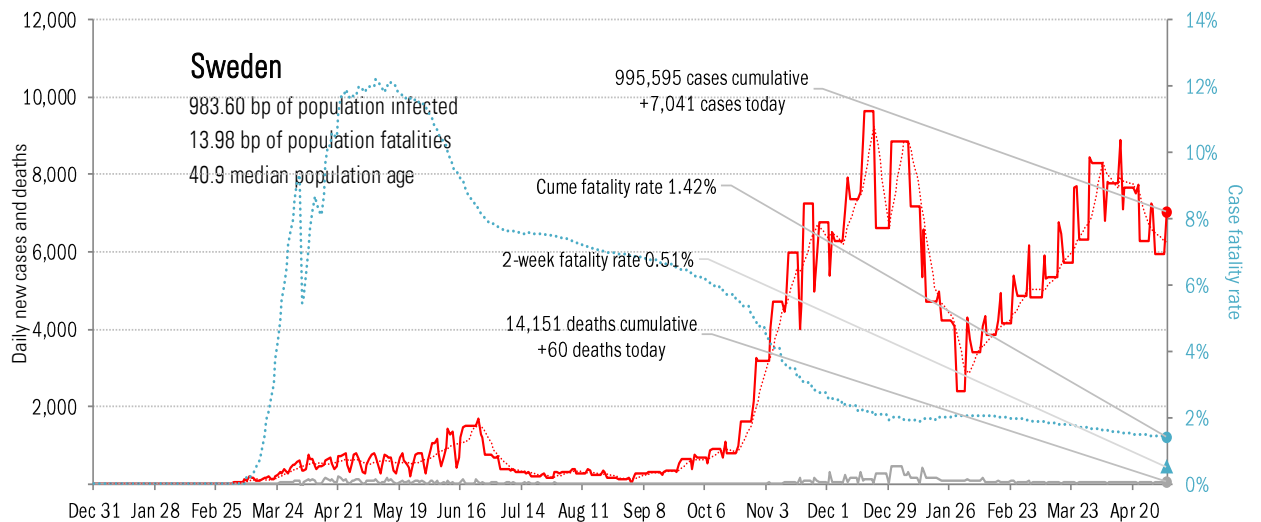
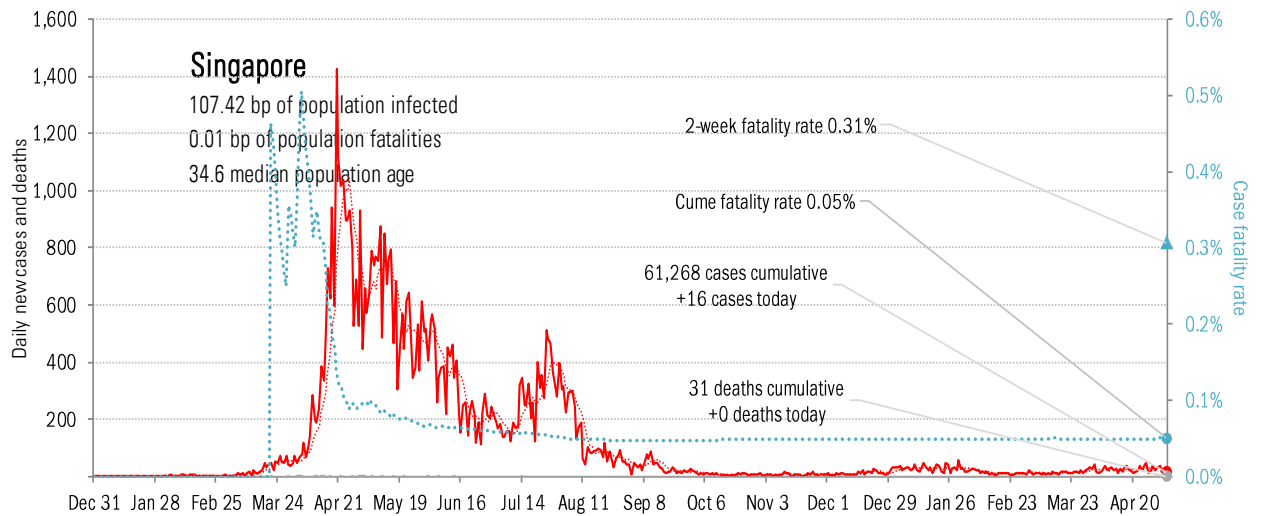
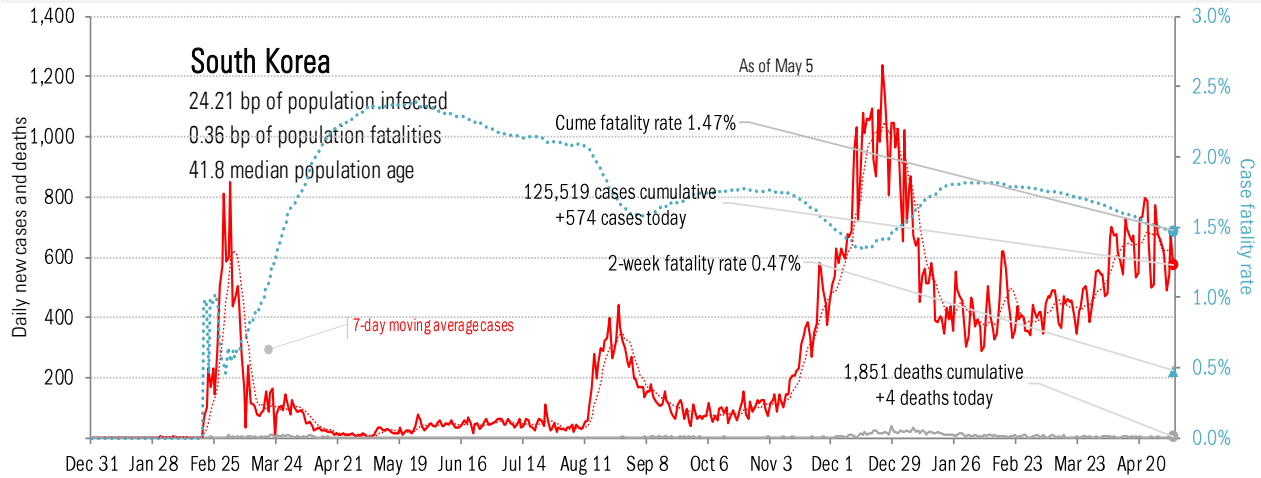
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



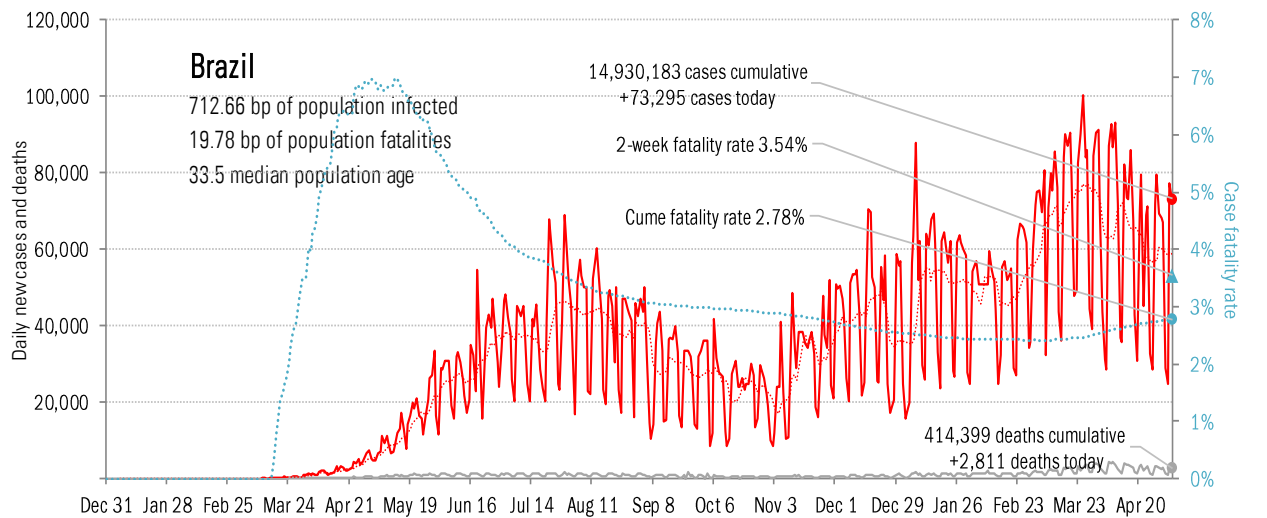
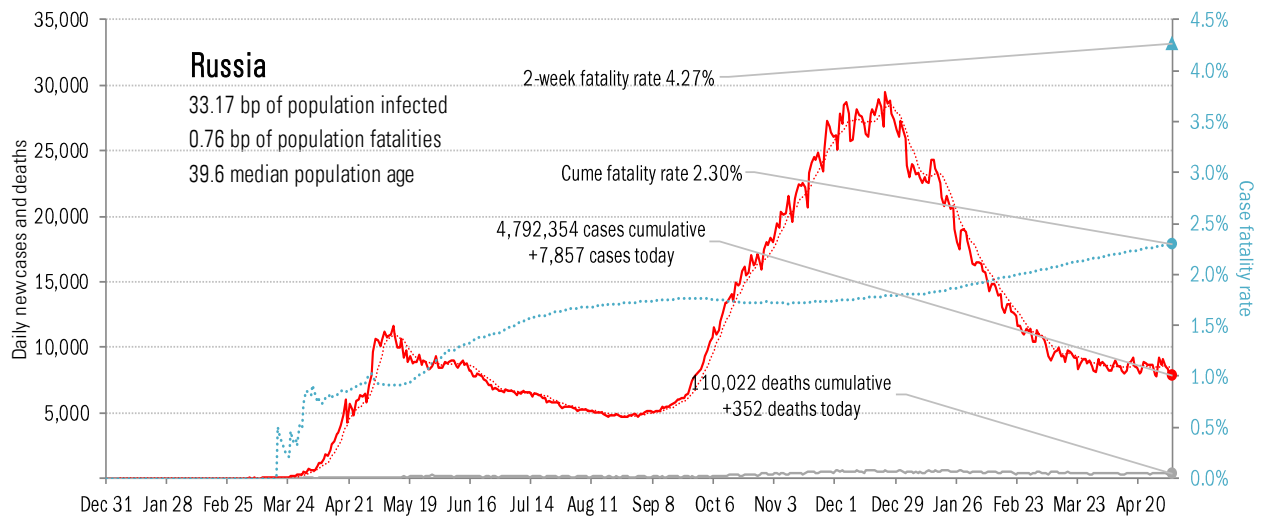
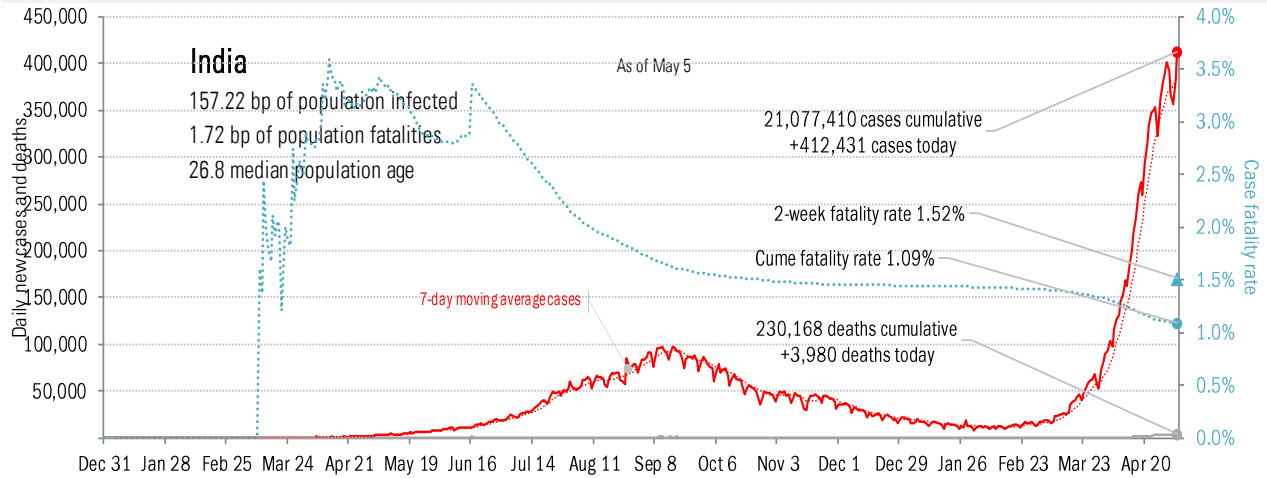
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



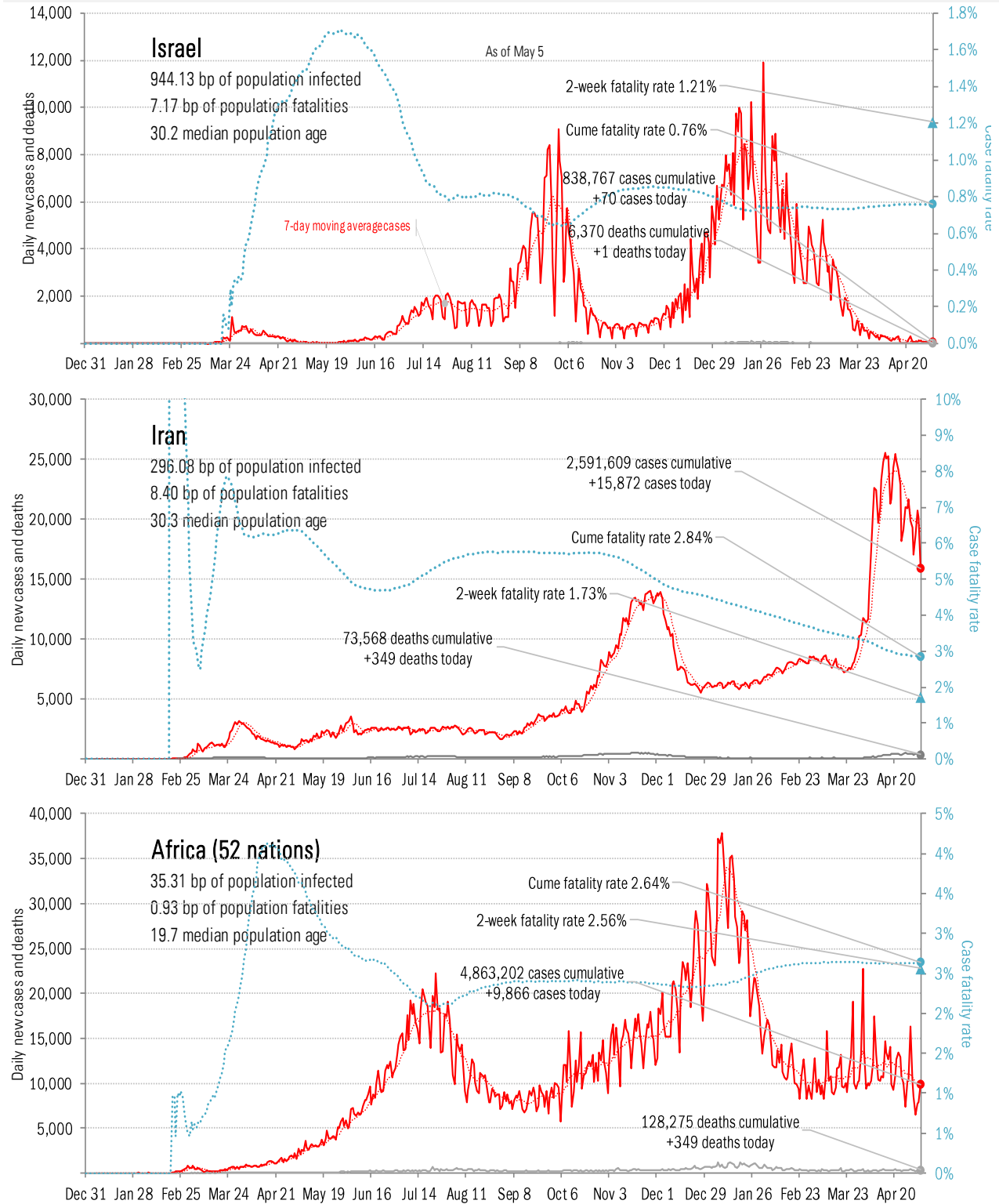
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



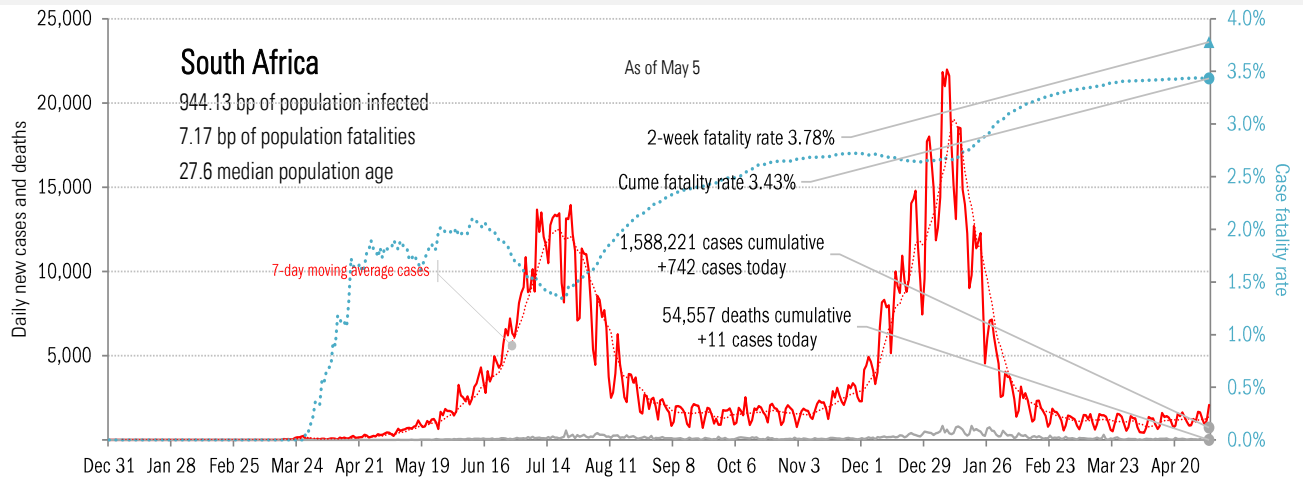
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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