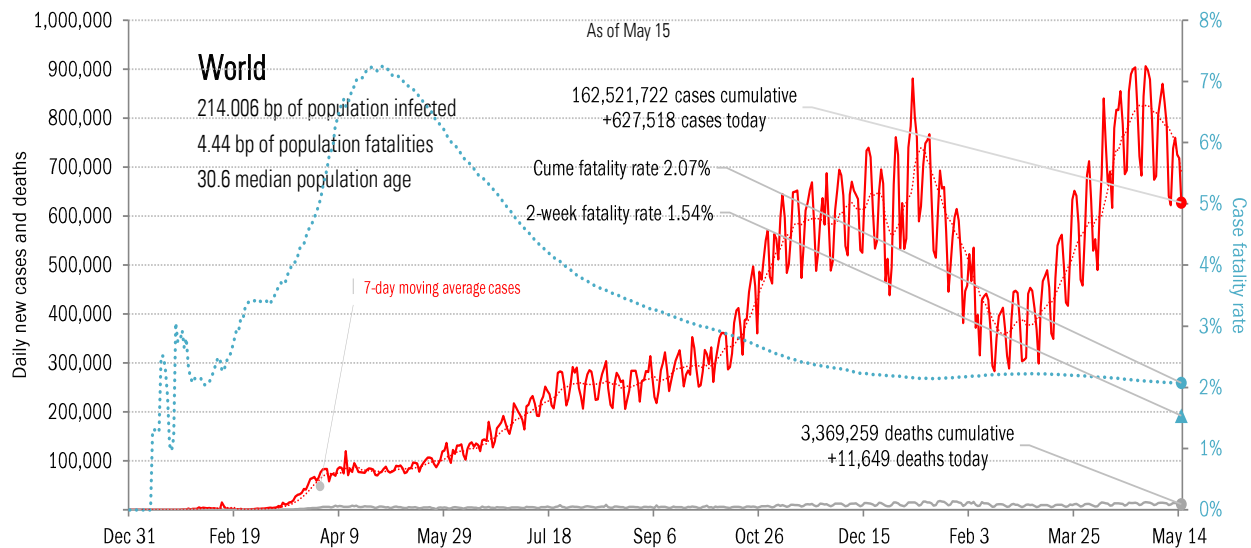
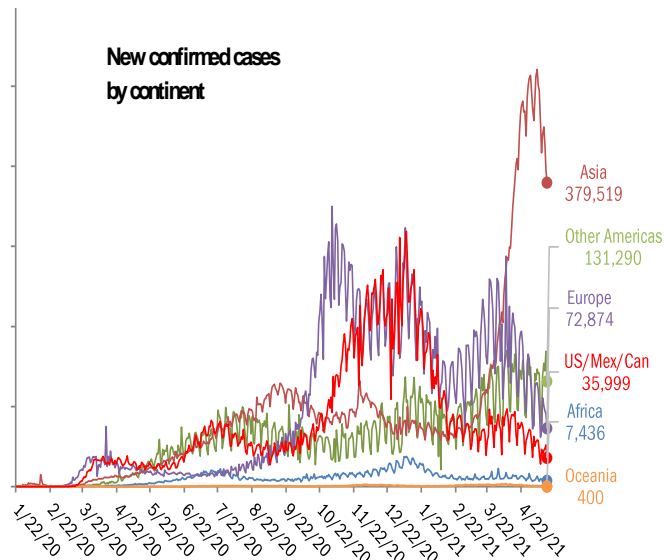


Data Insights: Covid-2019 Monitor

Sunday, May 16, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+311,170	India	+4,077
Brazil	+67,009	Brazil	+2,087
United States	+28,813	Colombia	+530
Argentina	+21,469	United States	+476
Colombia	+18,873	Argentina	+400
France	+15,685	Russia	+359
Turkey	+11,472	Ukraine	+327
Russia	+8,667	Poland	+298
Nepal	+8,046	Turkey	+236
Iran	+7,723	Mexico	+225
+498,927		+9,015	
World	+627,518	World	+11,649
Top ten	80%	Top ten	77%



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

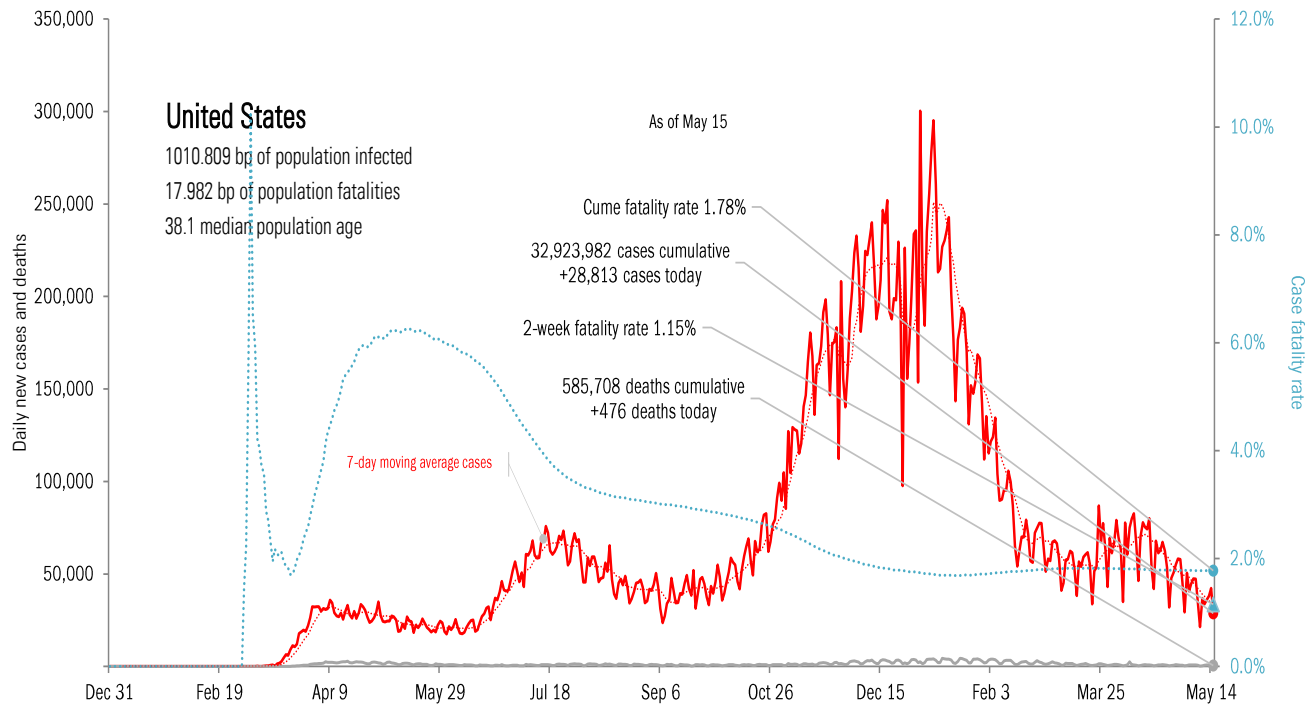
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
FL	+3,319		MI	+112		MN	+28		CA	3,768,087		CA	62,656		TX	244,459		RI	92%	MI	23%
AL	+2,016		FL	+56		NV	+11		TX	2,928,389		NY	52,914		CA	233,543		MA	83%	CO	17%
NY	+1,800		IL	+45		WI	+11		FL	2,289,522		TX	50,940		FL	175,123		MD	82%	MD	15%
PA	+1,693		TX	+37		AL	+8		NY	2,083,623		FL	36,056		NY	132,106		PA	81%	MN	15%
SC	+1,525		CA	+23		UT	+7		IL	1,364,919		PA	26,712		GA	104,915		MO	80%	WA	14%
IL	+1,510		GA	+23		NC	+6		PA	1,185,952		NJ	25,952		PA	87,812		CT	79%	ME	14%
MI	+1,491		NJ	+20		RI	+5		GA	1,115,072		IL	24,770		CH	83,908		FL	78%	VW	14%
TX	+1,194		PA	+19		AZ	+4		CH	1,090,276		GA	20,505		IL	78,829		DC	78%	MO	13%
MA	+1,153		MD	+17		ME	+3		NJ	1,010,490		MI	19,790		KY	74,032		GA	78%	ND	12%
IN	+1,145		VA	+17		MS	+3		NC	989,338		CH	19,528		MI	69,526		MN	78%	GA	12%
+16,846			+369			+86			17,825,668			339,823			1,284,253						
All states	+28,813		+476			-531			All states	32,923,982		585,708			2,302,479			All states	70%	67%	
Top ten	58%		78%			-16%			Top ten	54%		58%			56%			Median	72%	9%	

Some states not reporting

Five most improved US states

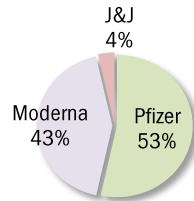
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
AL	-2,902	CH	-87	NM	-156	RI	+110 bp
CA	-1,612	CA	-37	TX	-71	ME	+78 bp
NC	-1,501	NY	-26	GA	-70	CO	+63 bp
WA	-1,467	TX	-26	CA	-36	MD	+58 bp
TX	-1,235	FL	-15	KS	-28	MA	+57 bp



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

Rolling out the vaccines in the US and the world

US overall	Total				Today	Immunity	Full	Partial
Doses distributed	356,813,365				+2.690 million	US	36.4%	46.7%
Doses administered	279,565,704				+2.433 million	UK	29.0%	53.5%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	13.1%	29.2%
Total population	160,551,384	48%	125,490,858	38%	+1.534 million	Spain	14.9%	31.9%
Age 12 to 17	2,832,411	11%	1,465,230	6%	+0.074 million	Germany	10.8%	36.3%
Age 18 to 64	110,067,073	54%	82,956,488	41%	+1.291 million	Italy	14.0%	31.0%
Age 65 and over	47,717,698	87%	41,060,892	75%	+0.172 million	Australia	1.9%	0.6%



AK
58.0%
43.6%
37.7%

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



At today's dosing pace, every American >18 immune in **82 days** by Aug 5, 2021

59.3% of population >18 immunized
13.9% previously tested positive
73.2% vs 60% adult herd immunity*

Global data differs from sources, timing

China NA	ME
64.2%	64.2%
58.8%	58.8%
48.7%	48.7%

WI	VT	NH
51.5%	68.7%	60.1%
48.0%	64.1%	59.6%
41.3%	46.1%	35.4%

WA	ID	MT	ND	MN	IL	MI	NY	MA
57.6%	45.8%	52.2%	45.9%	53.9%	55.7%	56.1%	57.5%	64.9%
51.4%	35.8%	42.8%	40.5%	50.7%	50.2%	45.5%	51.4%	61.9%
39.4%	30.6%	36.0%	35.1%	41.0%	36.0%	38.2%	42.1%	46.0%

OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
57.1%	47.0%	45.6%	55.4%	51.9%	47.4%	51.2%	59.1%	60.3%	62.8%	67.0%
50.1%	42.3%	35.3%	46.3%	46.3%	39.0%	42.8%	54.2%	55.8%	58.6%	56.4%
38.3%	33.4%	30.3%	41.0%	40.1%	32.1%	37.4%	38.6%	43.8%	47.6%	45.5%

CA	UT	CO	NE	MO	KY	WV	VA	MD	DE
59.2%	48.3%	58.4%	52.1%	48.7%	49.5%	51.3%	56.8%	62.7%	60.8%
52.7%	42.2%	50.0%	45.5%	39.6%	43.3%	37.9%	51.0%	52.9%	50.3%
37.7%	29.0%	40.6%	39.1%	32.0%	35.9%	32.8%	40.0%	41.9%	38.8%

AZ	NM	KS	AR	TN	NC	SC	DC
54.1%	54.9%	52.4%	48.0%	45.1%	54.7%	50.0%	71.8%
43.4%	54.0%	44.5%	37.4%	36.8%	41.1%	38.6%	53.2%
33.2%	44.0%	36.2%	29.0%	29.2%	33.8%	31.4%	38.2%

OK	LA	MS	AL	GA
51.5%	43.4%	45.2%	47.3%	50.8%
40.0%	34.0%	32.5%	34.6%	37.4%
32.2%	29.5%	25.8%	27.5%	29.2%

HI	TX	FL	PR
61.2%	52.5%	56.1%	60.5%
60.9%	40.7%	45.7%	45.1%
43.1%	32.0%	35.4%	31.0%

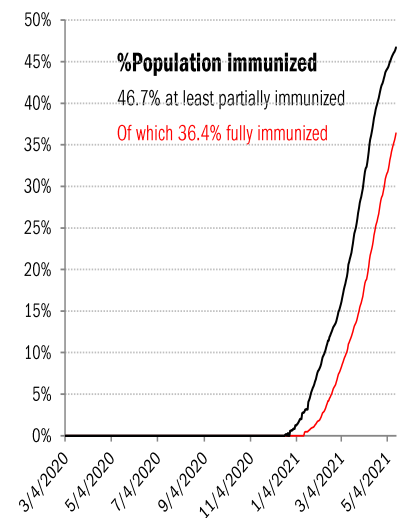
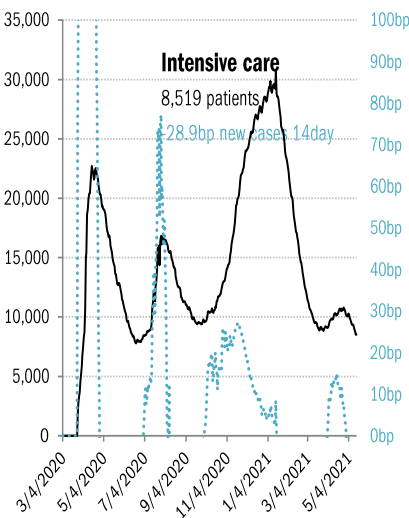
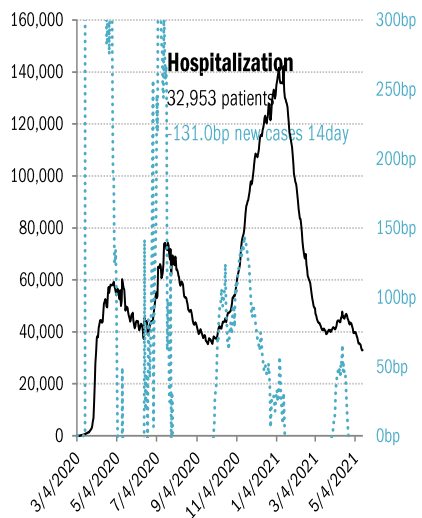
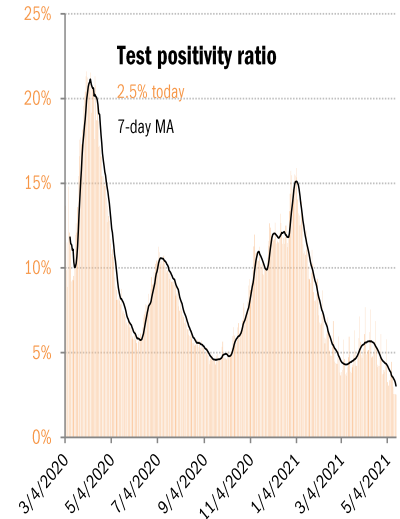
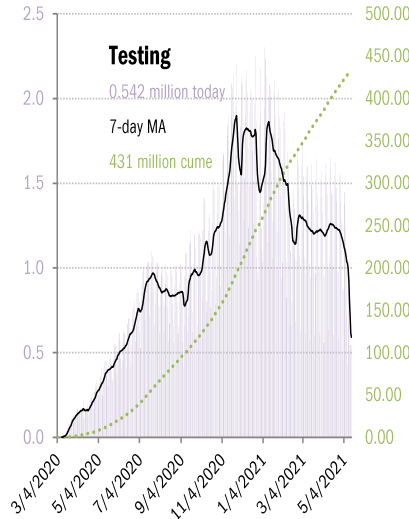
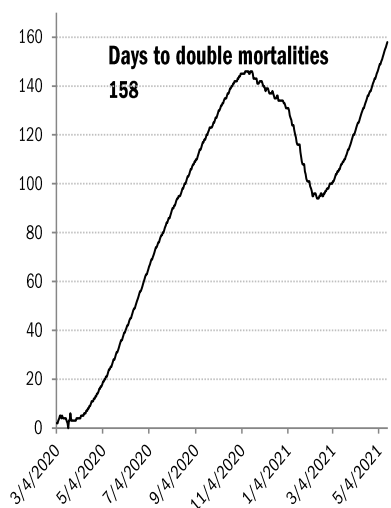
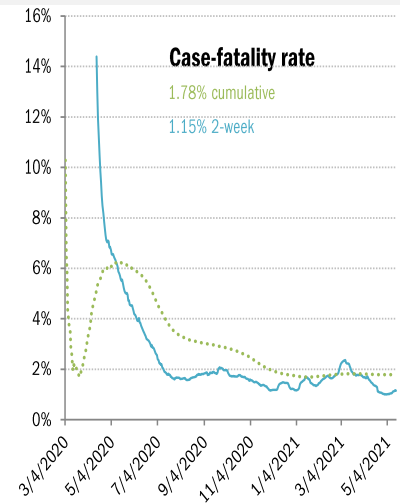
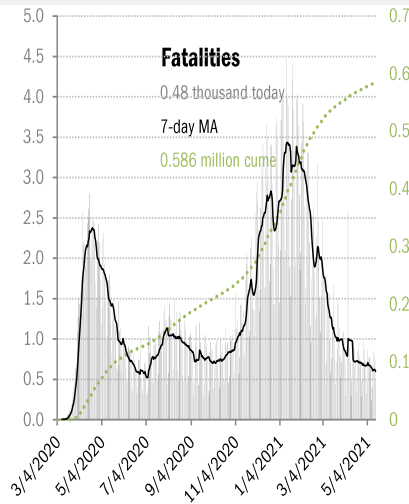
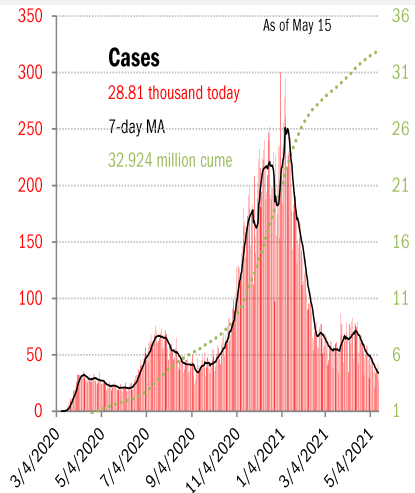
As of May 15

* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.
** 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

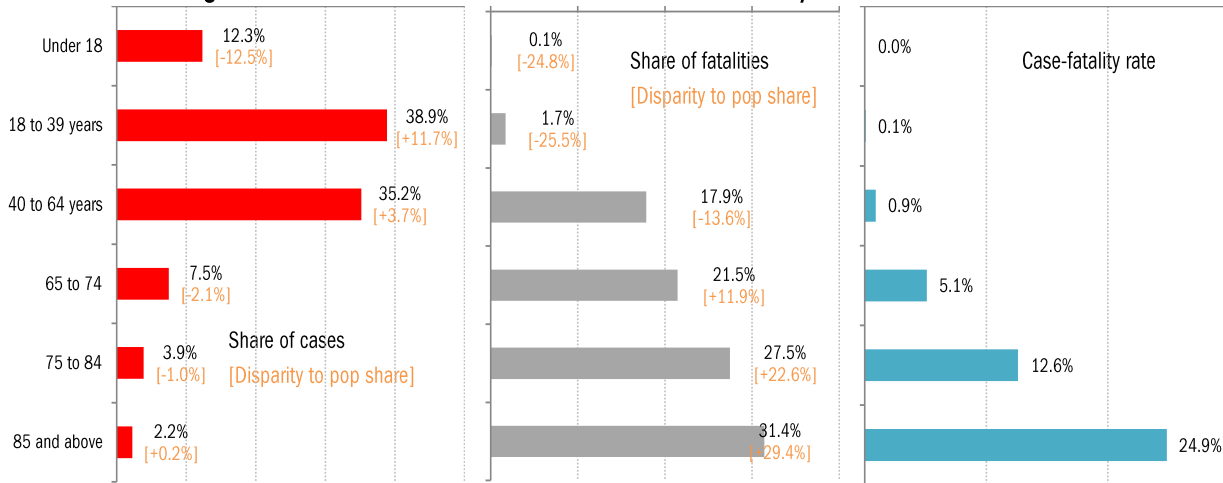
US deep-dive

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

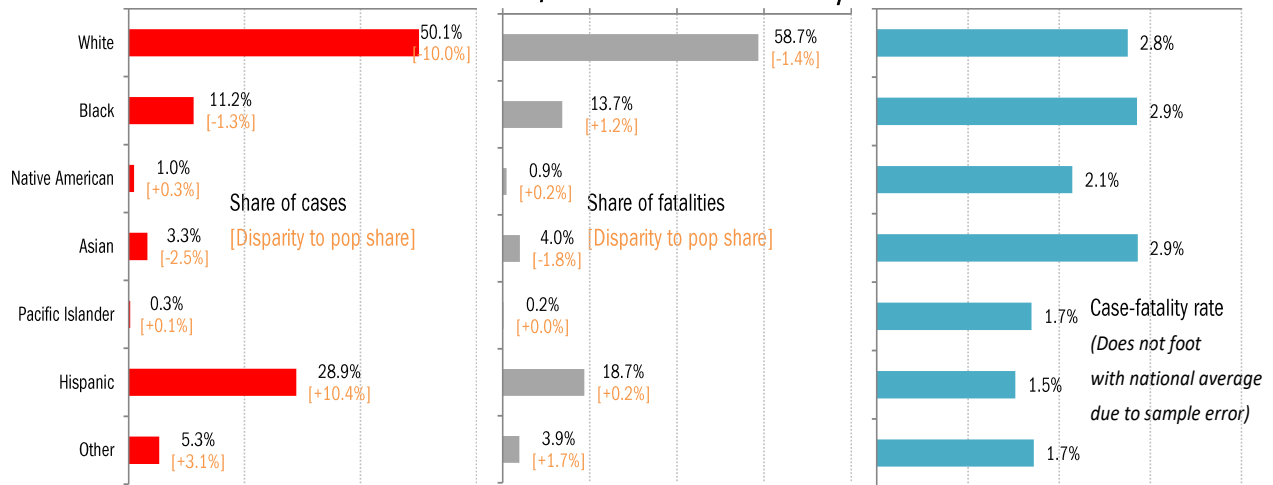


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

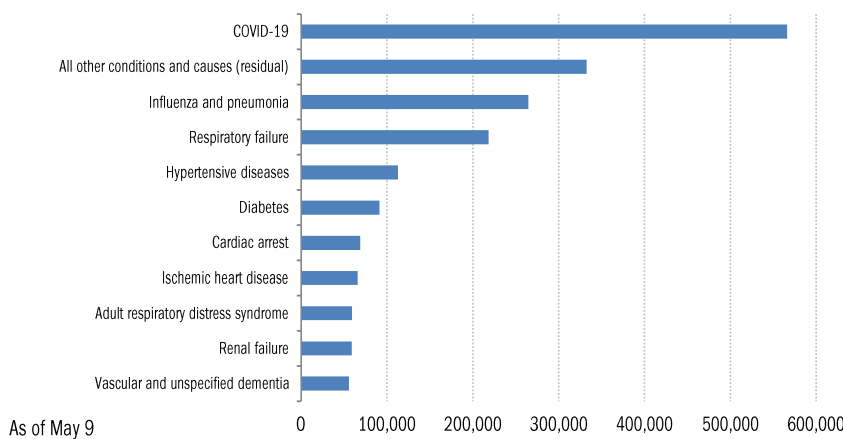


Racial distribution of US cases, fatalities and case-fatality rates Cumulative



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

[723 Epidemiologists on When and How the U.S. Can Fully Return to Normal](#)

Claire Cain Miller, Kevin Quealy and Margot Sanger-Katz
New York Times
May 15, 2021

[‘I Feel Like I’m Just Drowning’: Sophomore Year in a Pandemic](#)

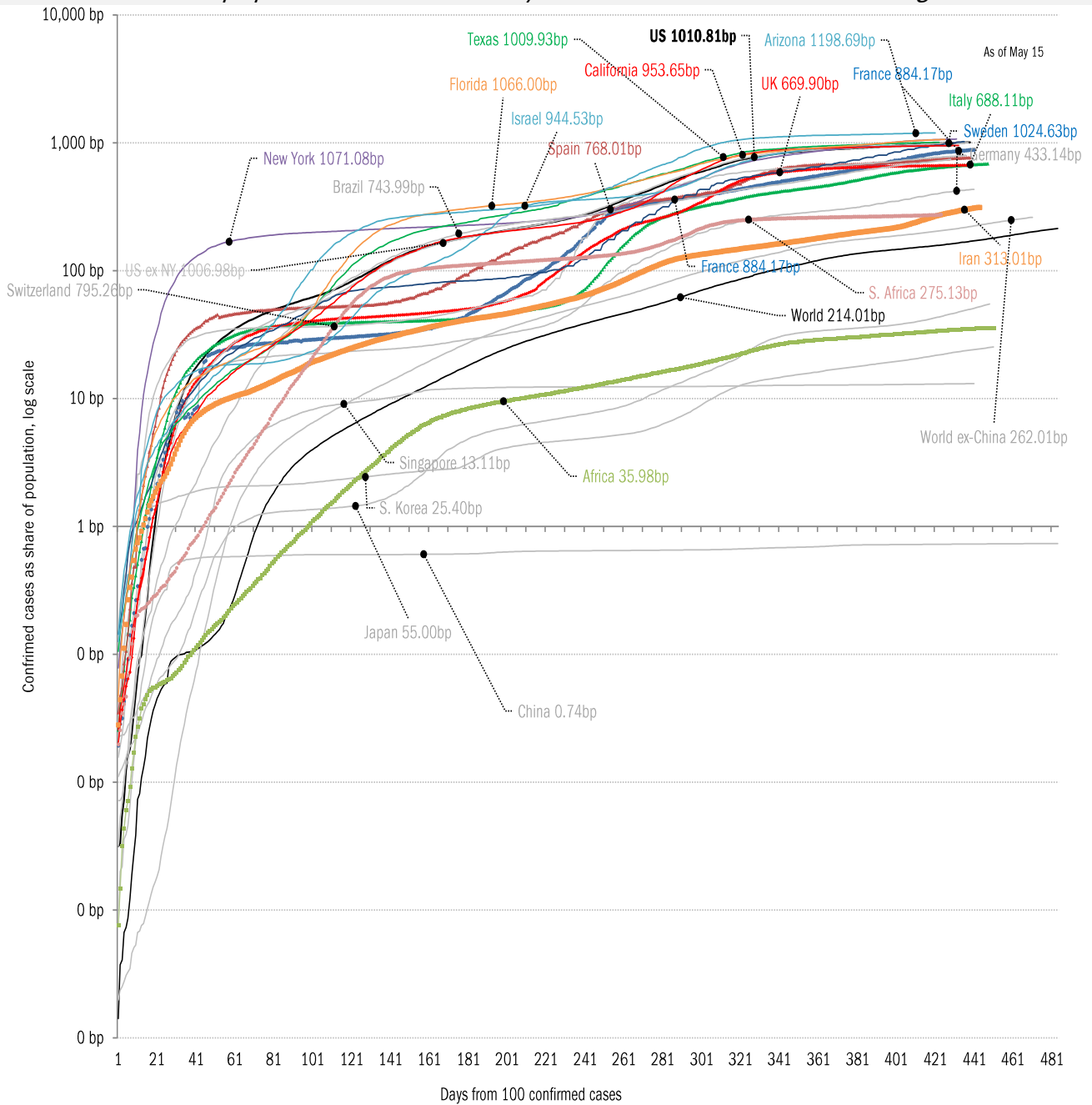
Susan Dominus
New York Times Magazine
May 13, 2021

Meme of the day



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

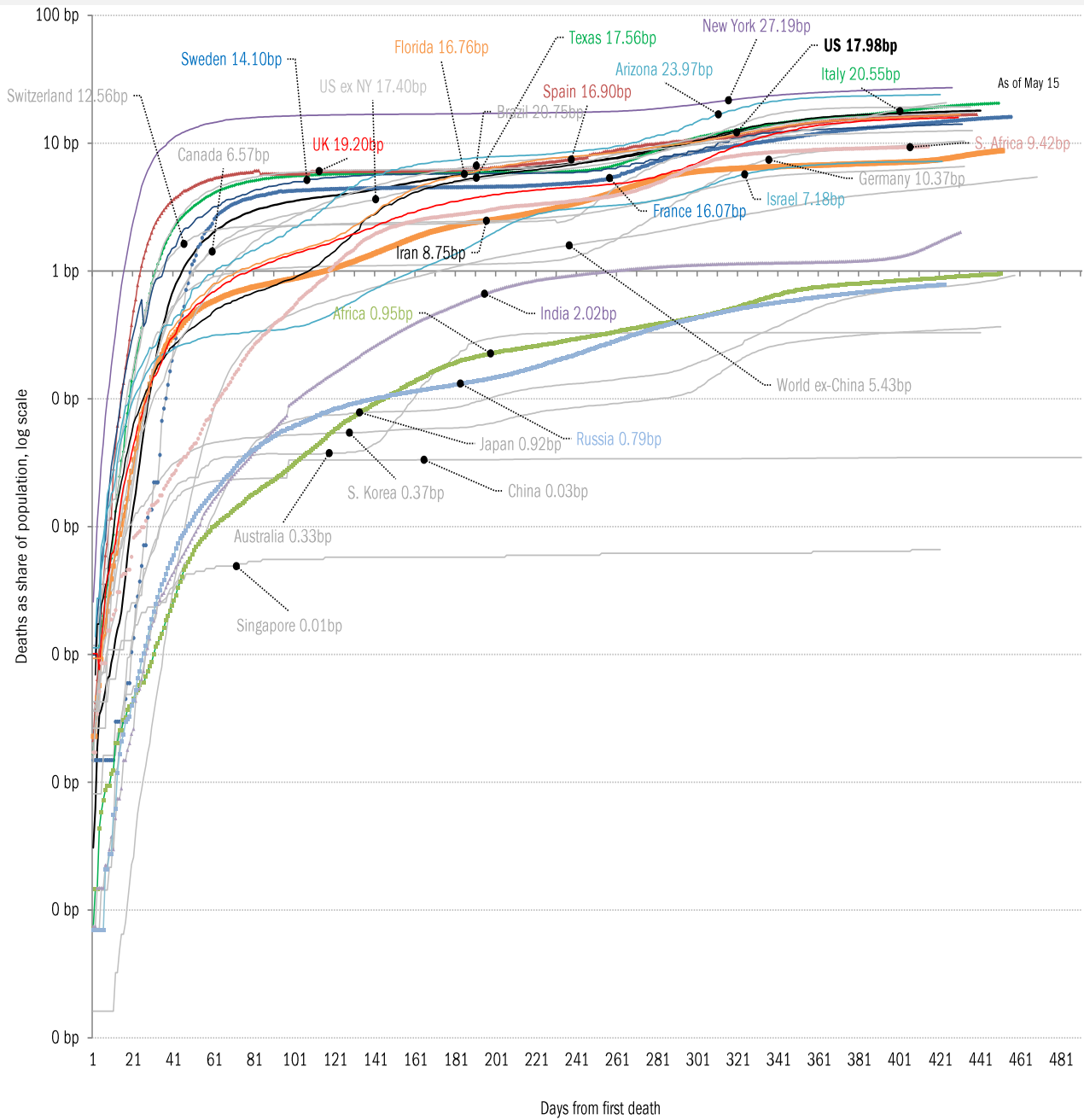
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

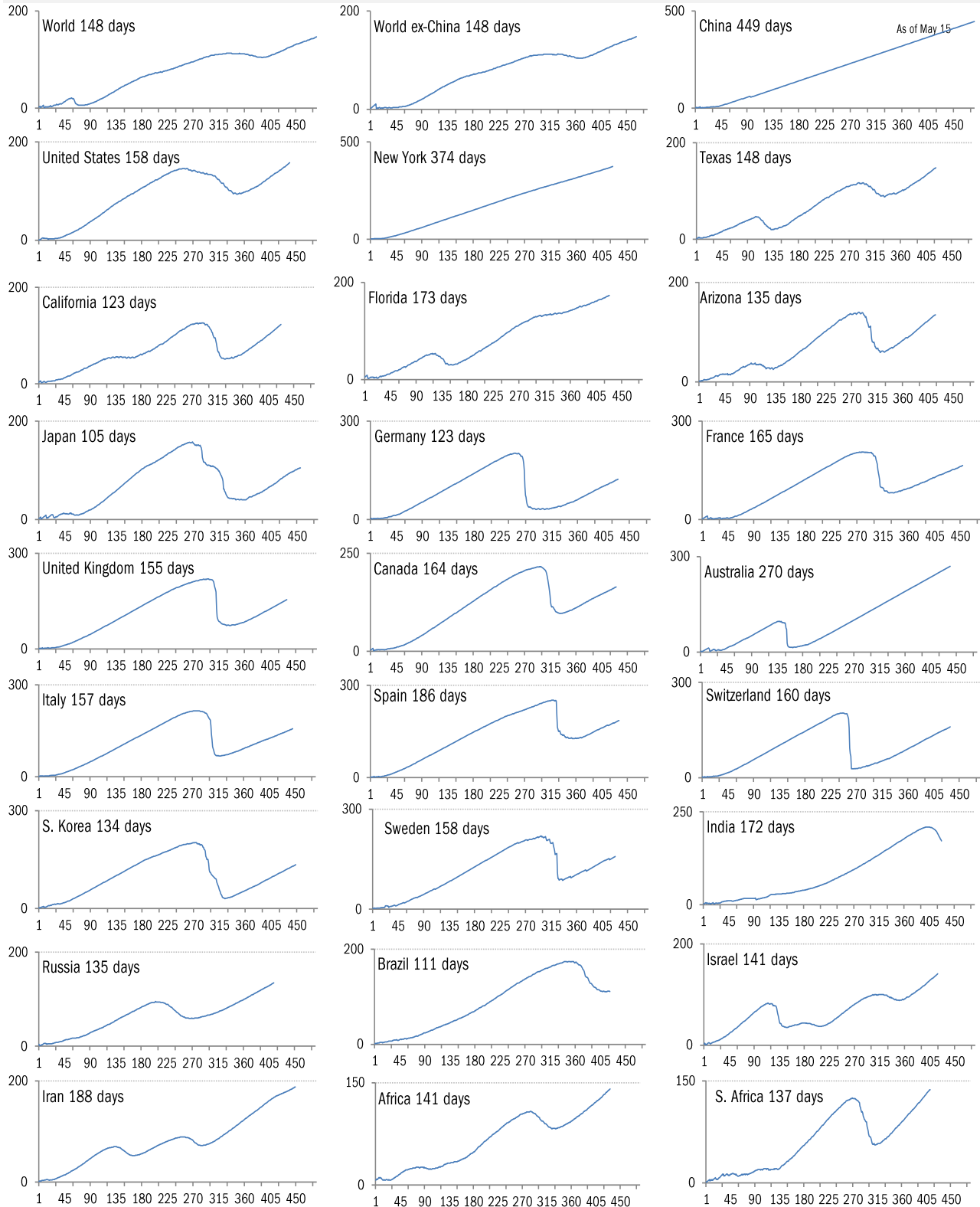


Source: [Johns Hopkins](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

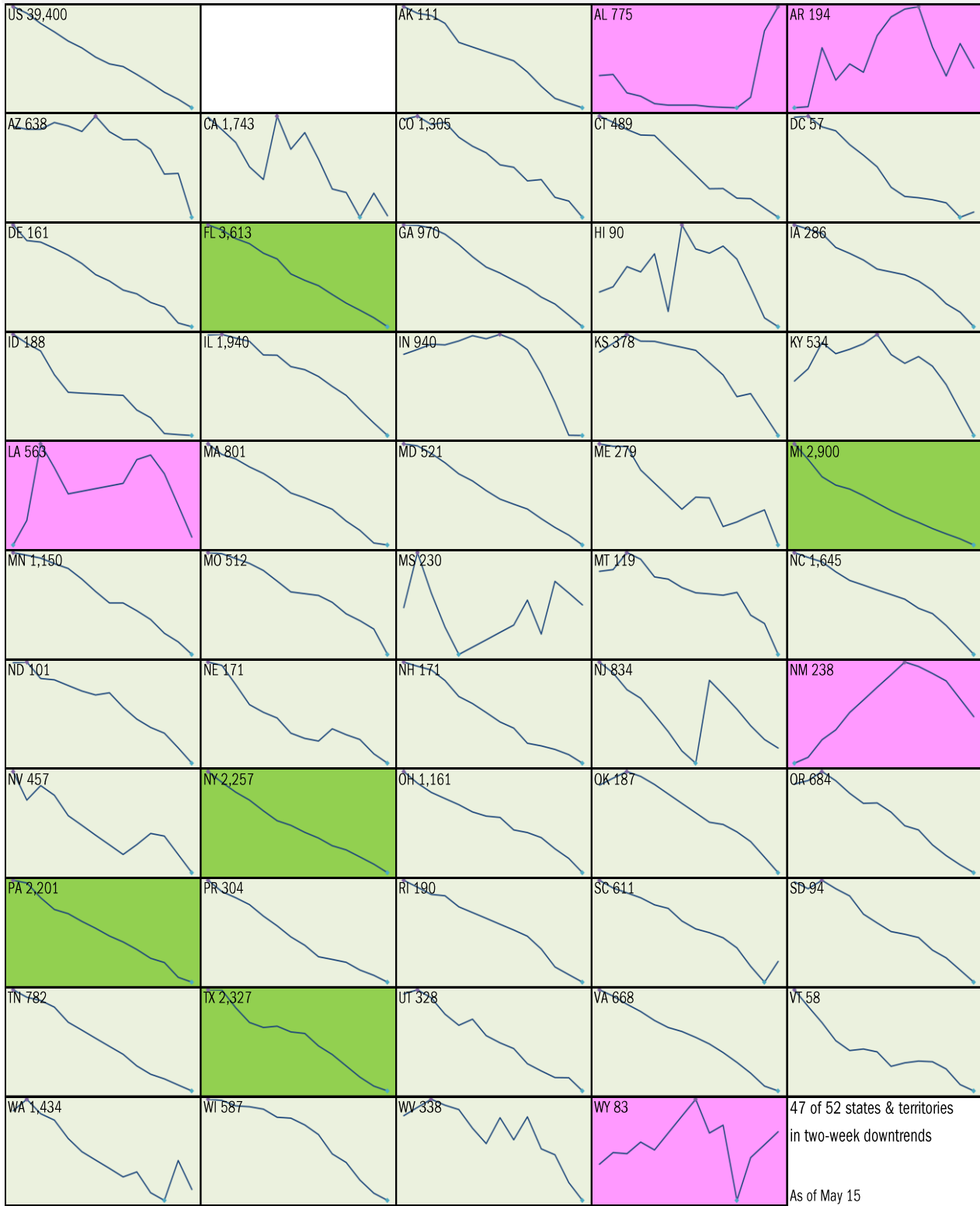
Vertical: days to double deaths Horizontal: days from first death

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

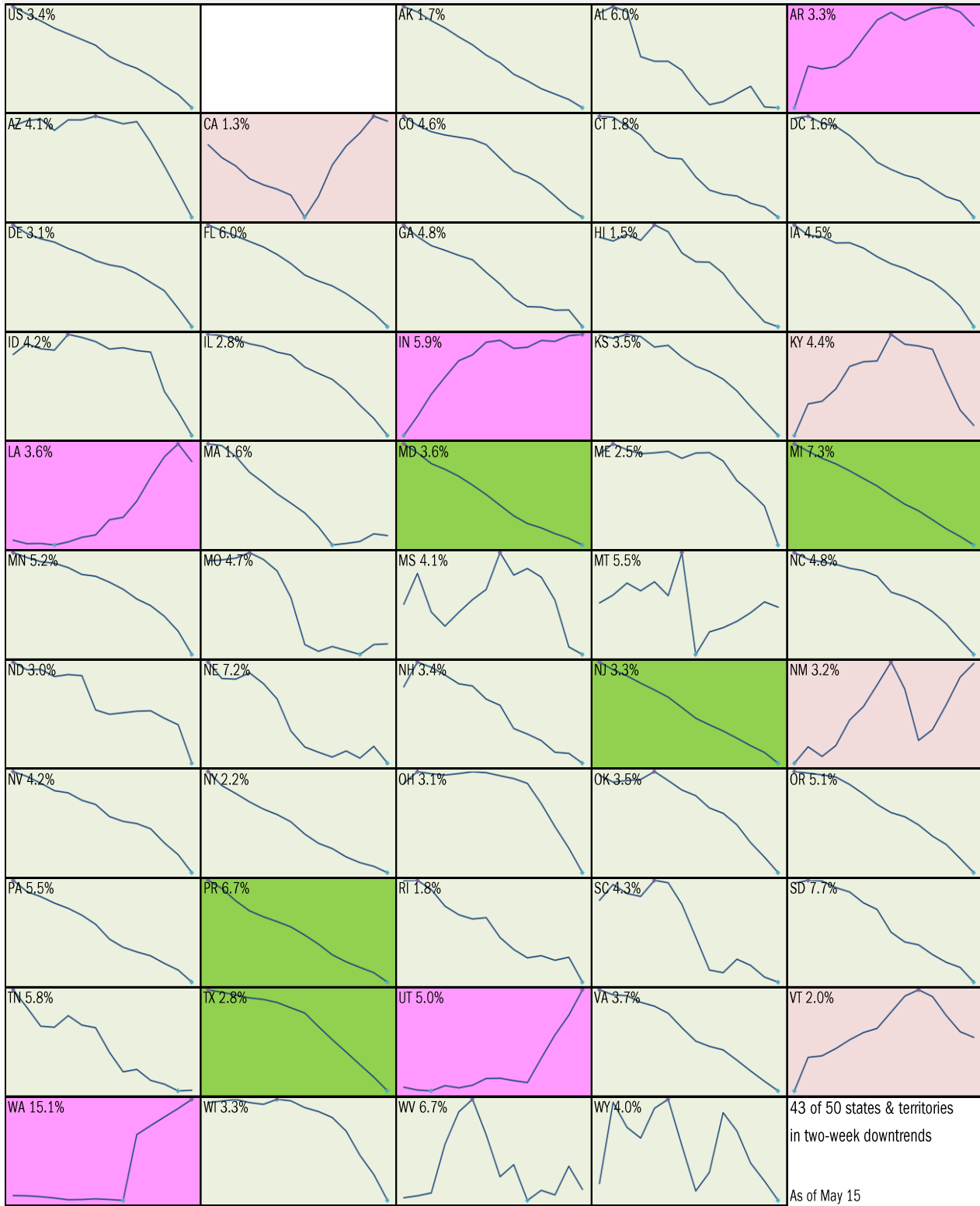


Source: [Johns Hopkins](#), TrendMacro calculations

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

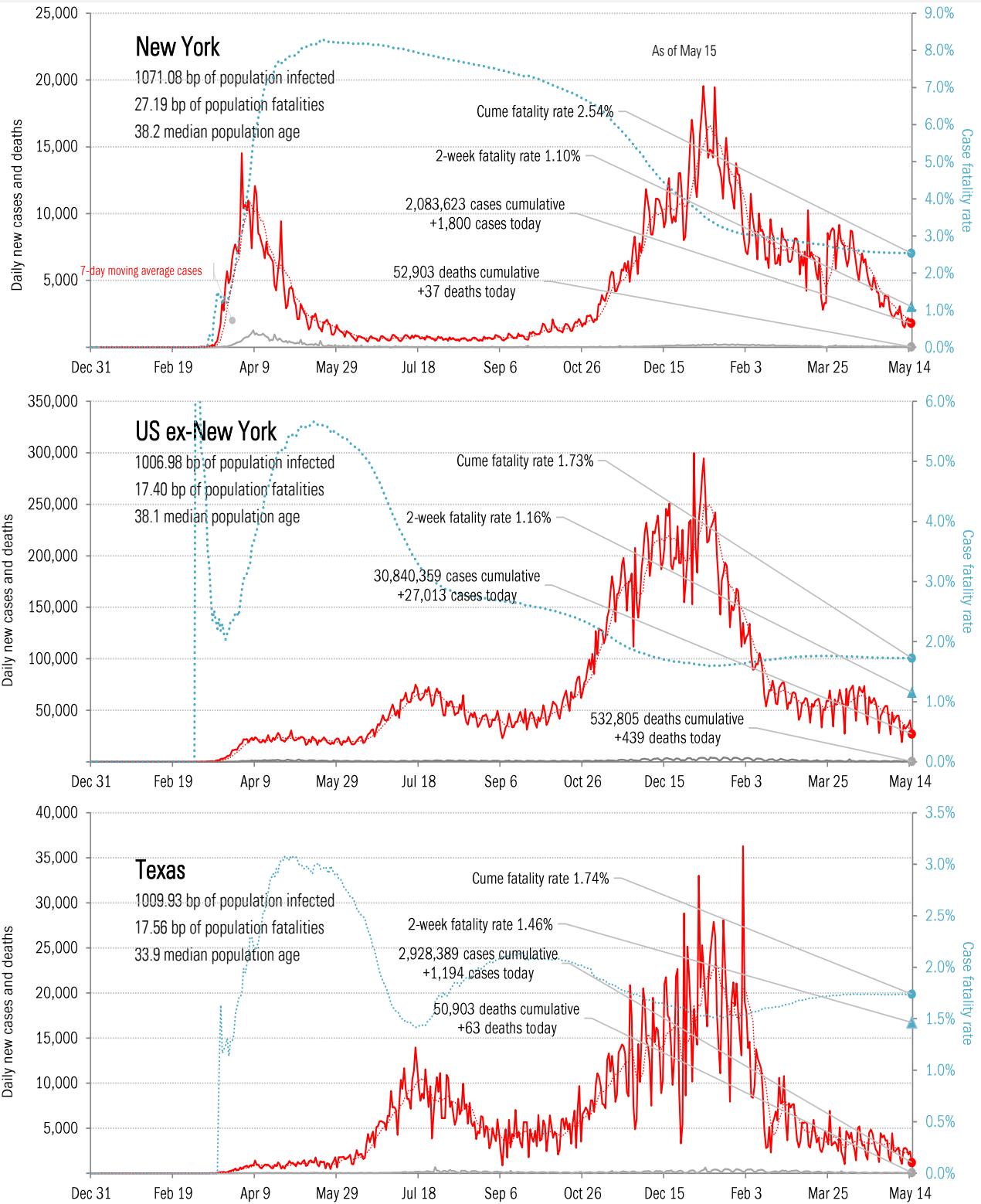
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



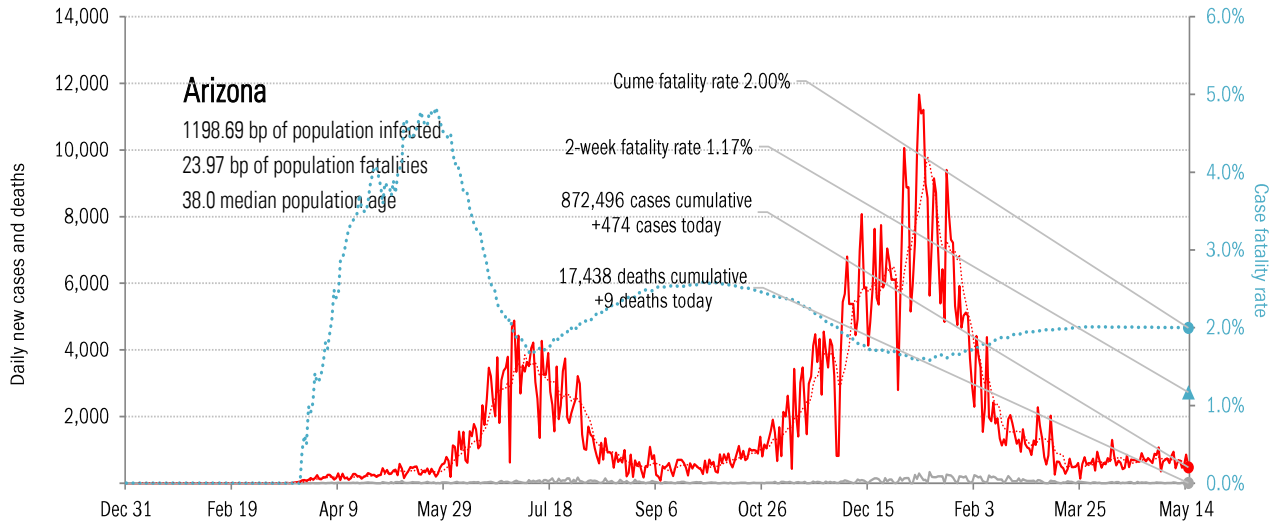
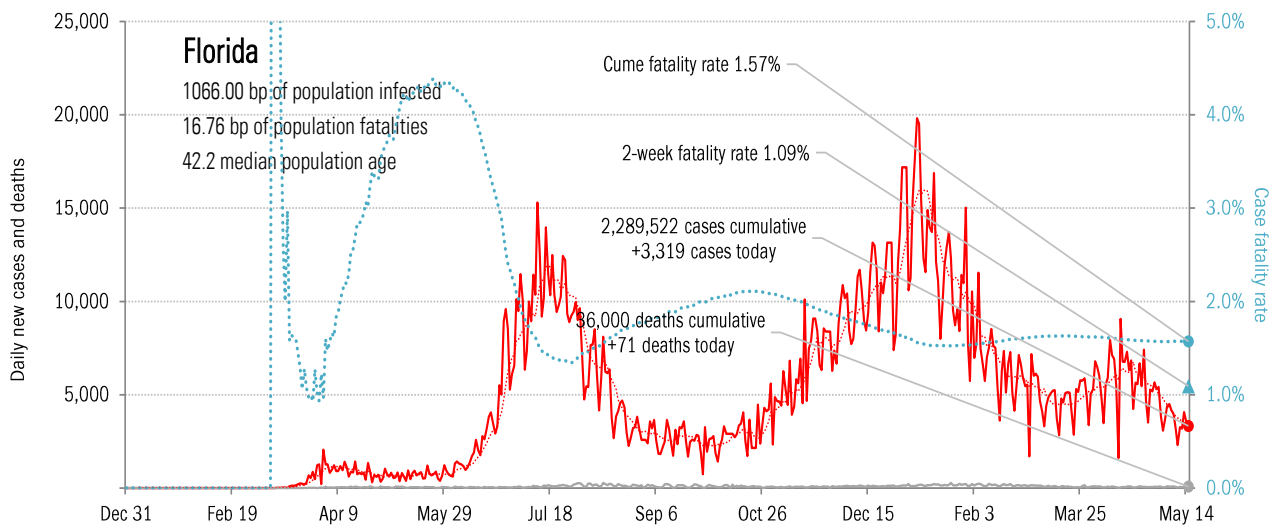
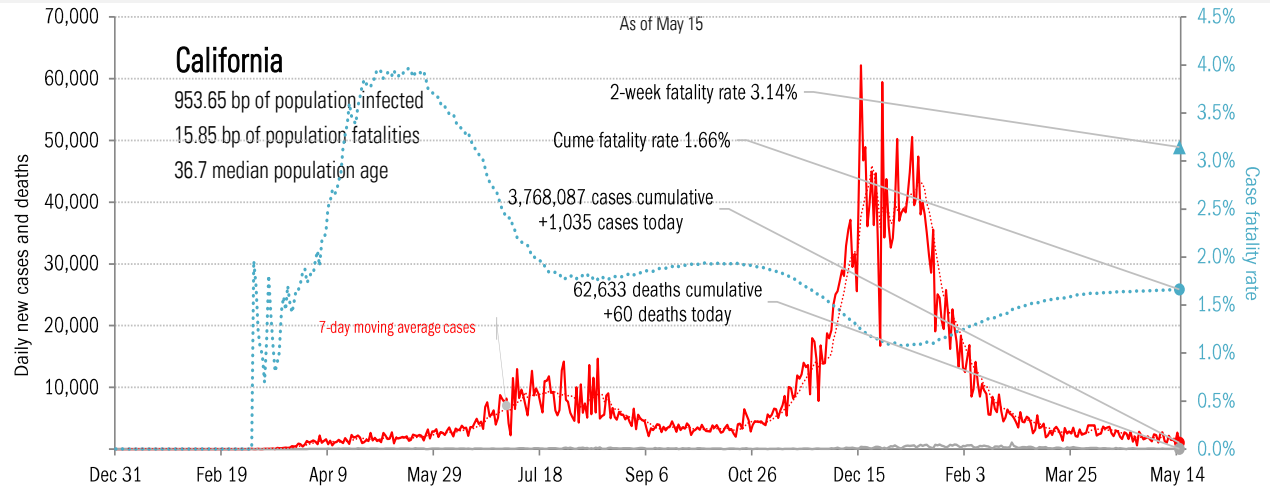
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



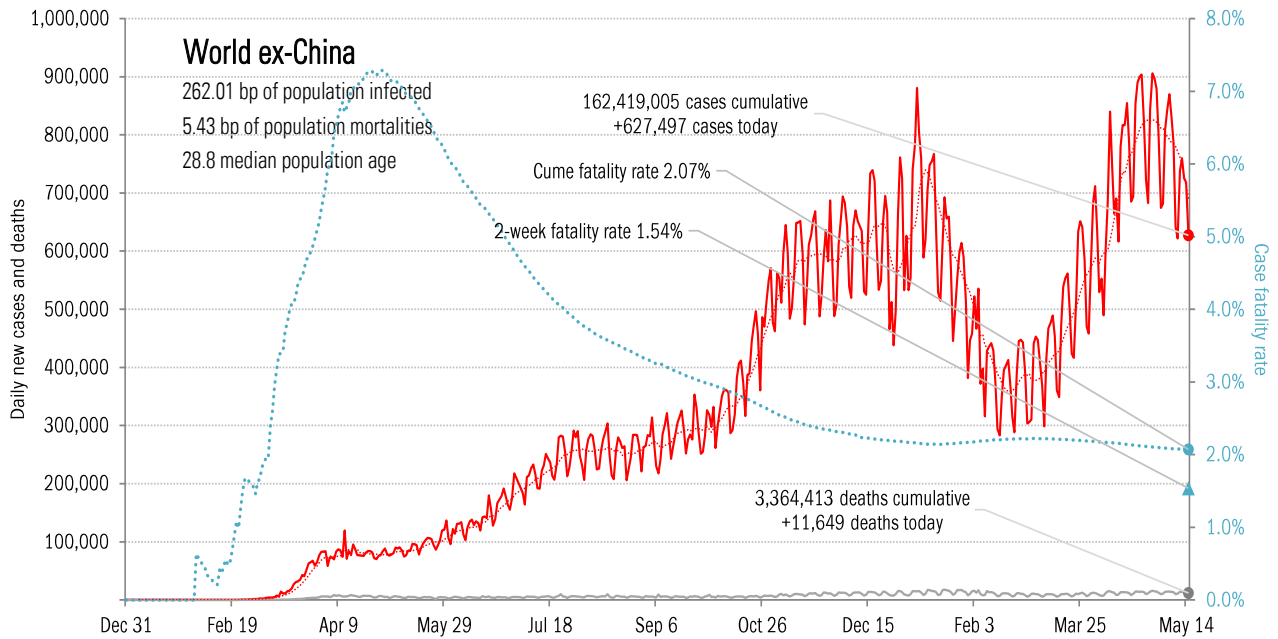
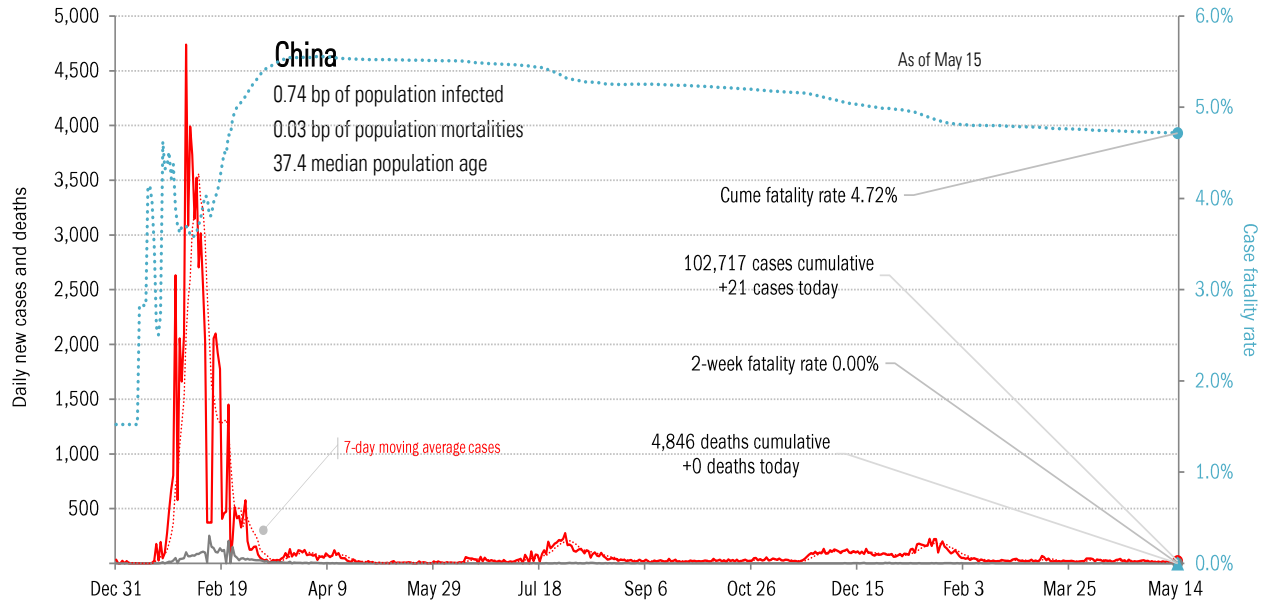
Source: [Johns Hopkins](#), TrendMacro calculations

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



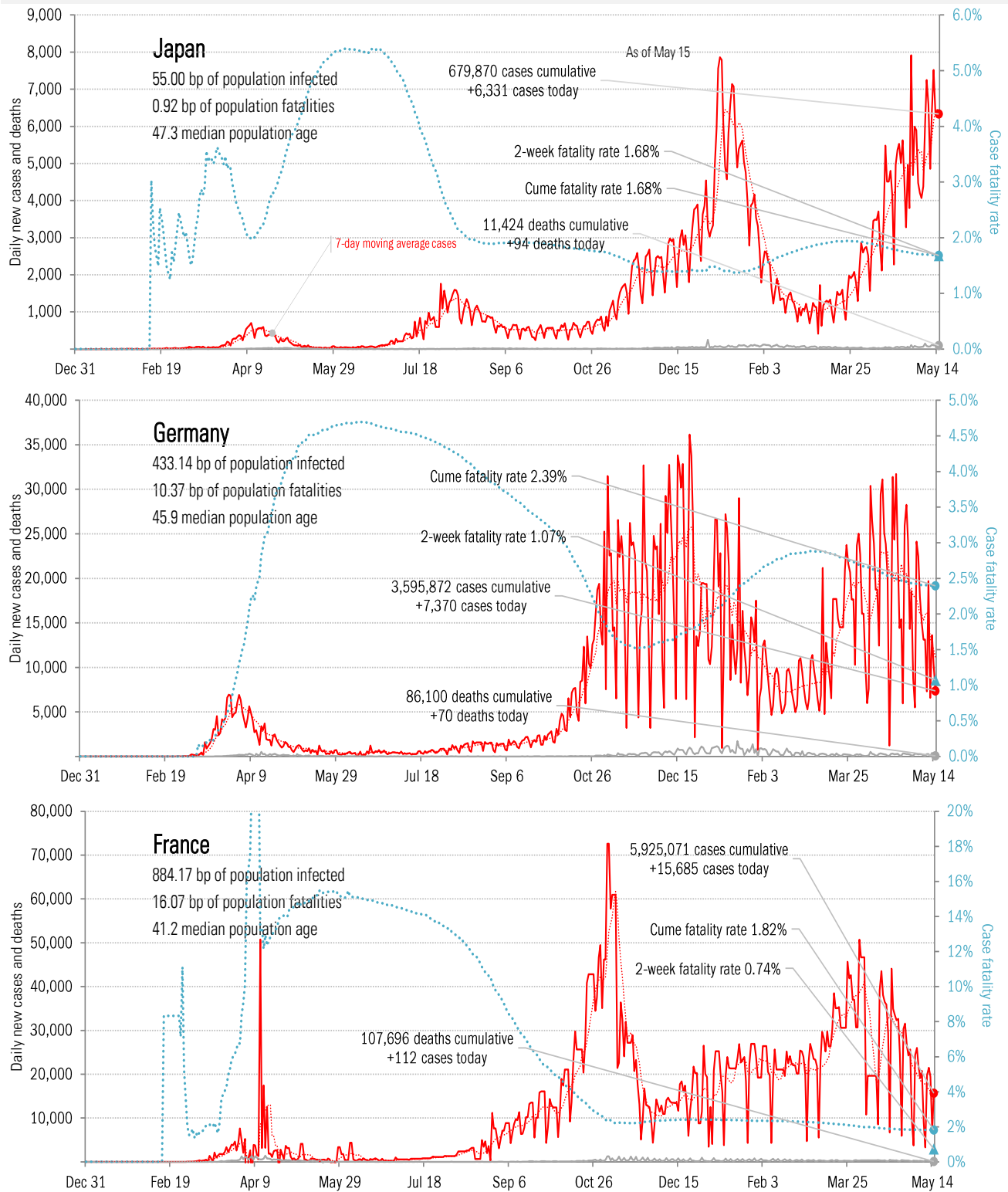
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



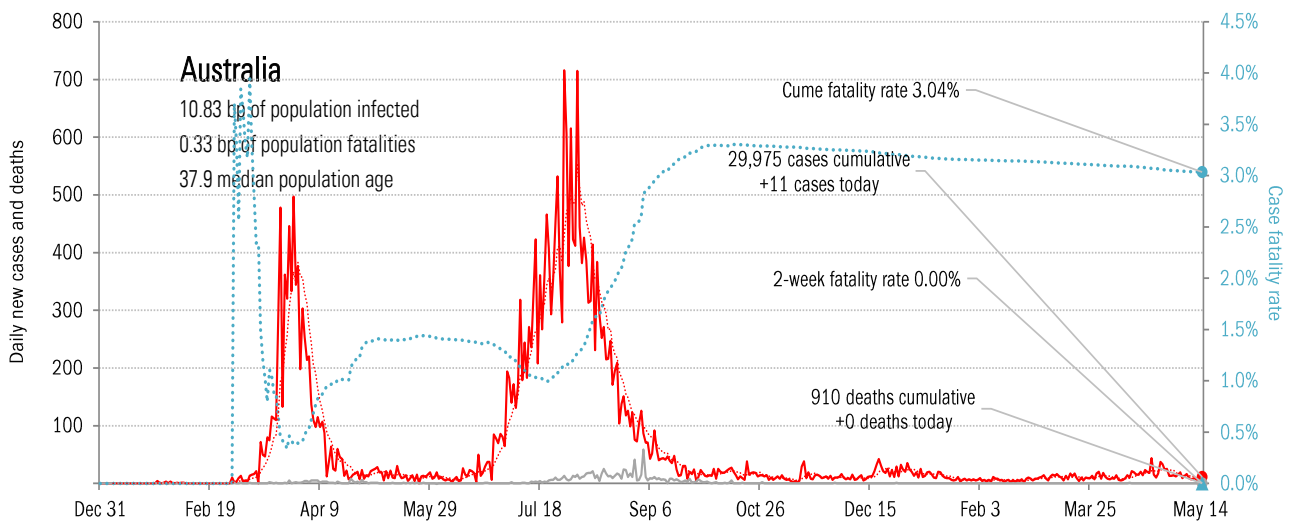
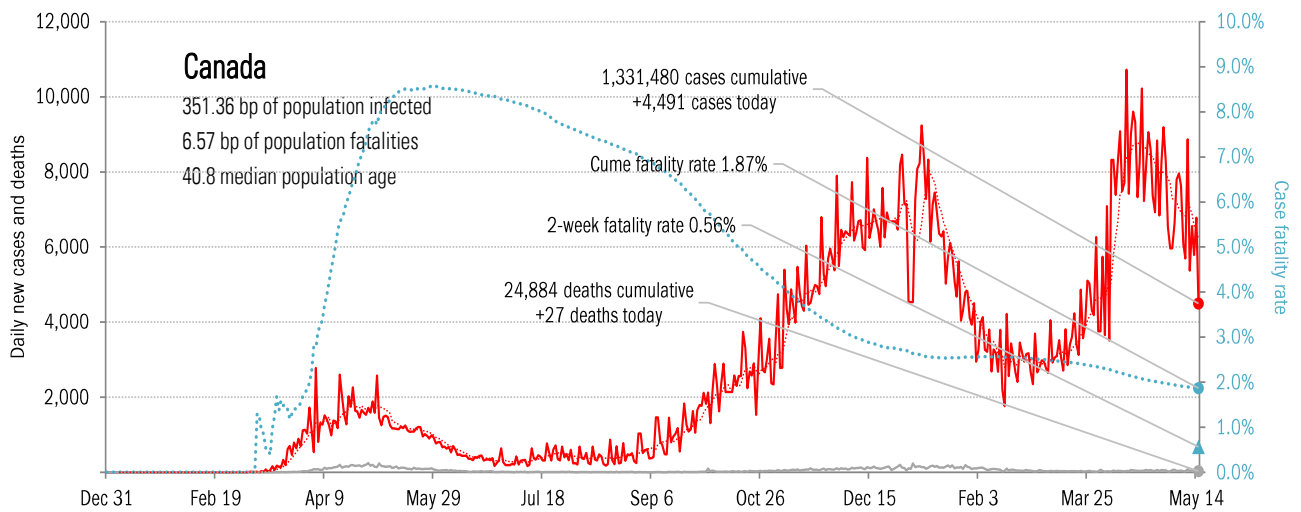
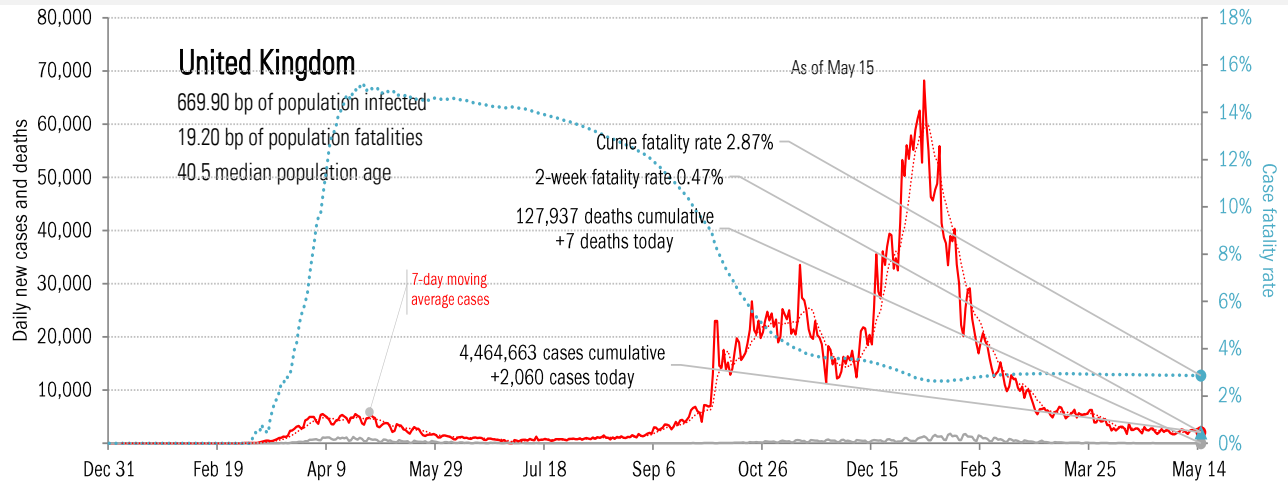
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



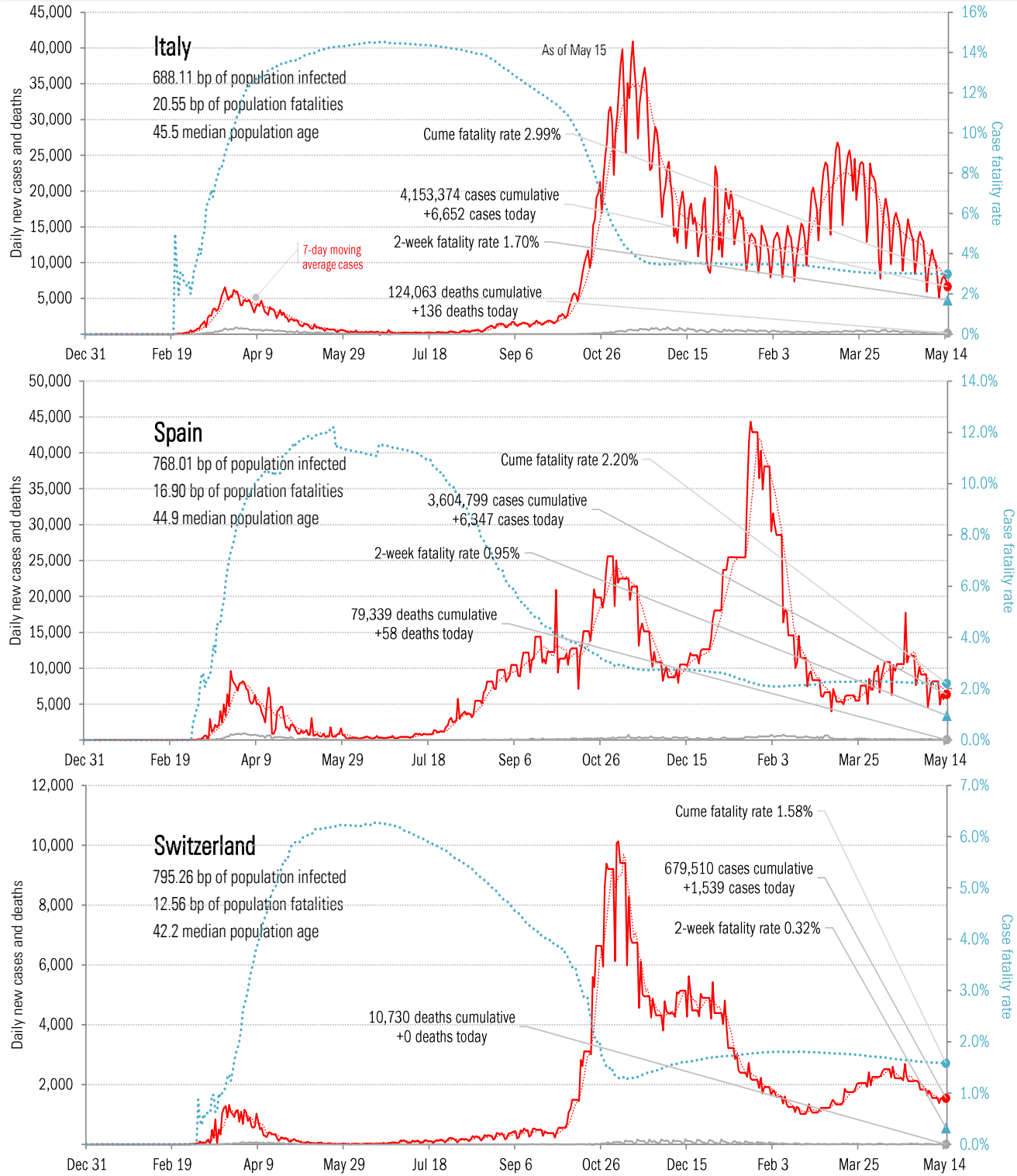
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



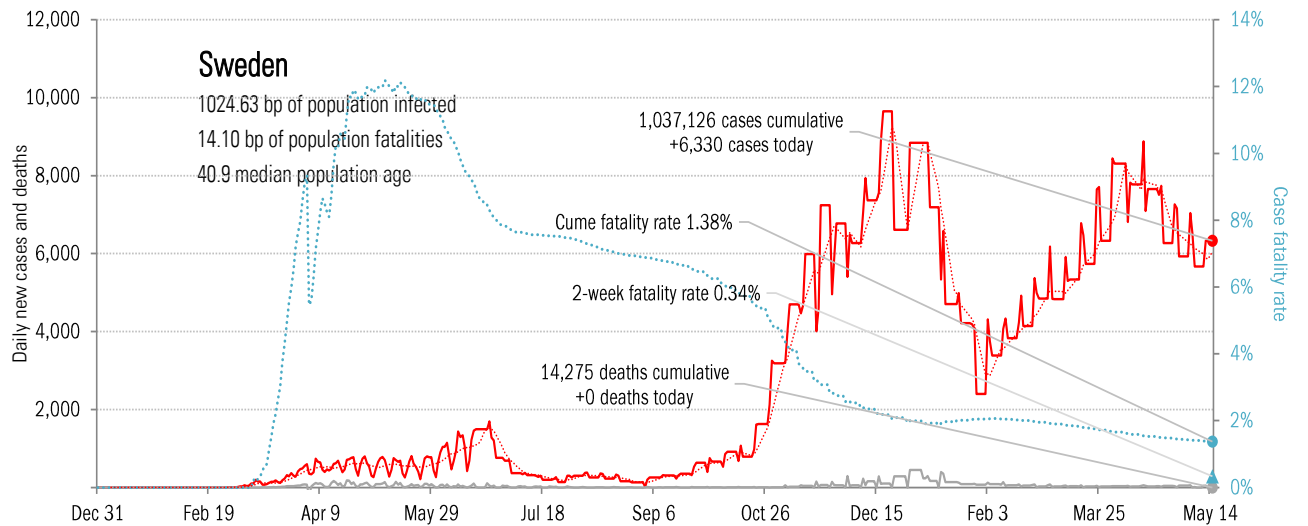
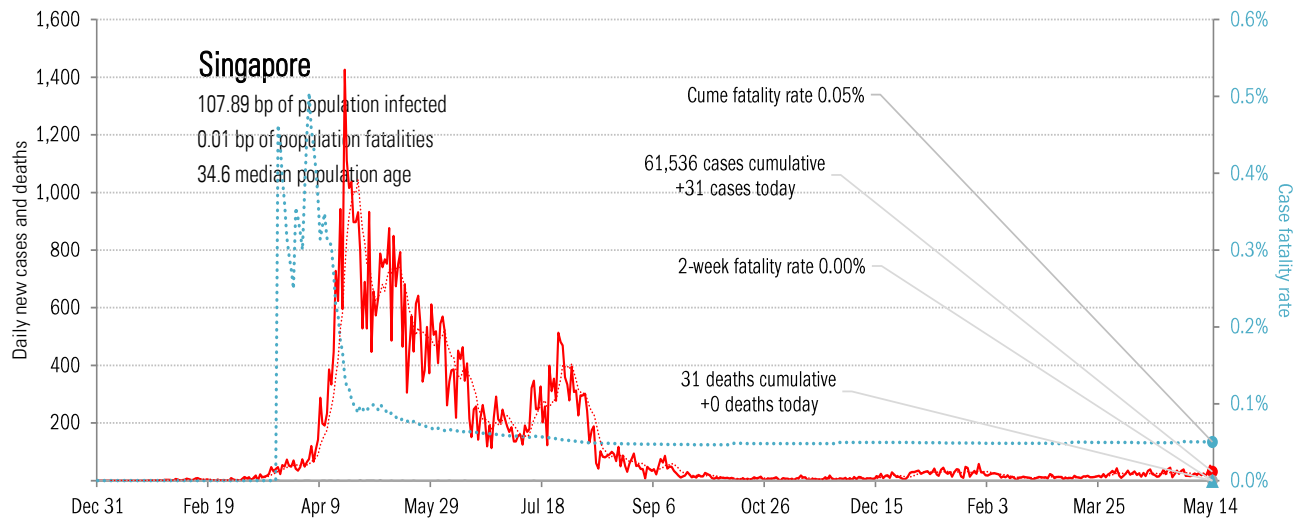
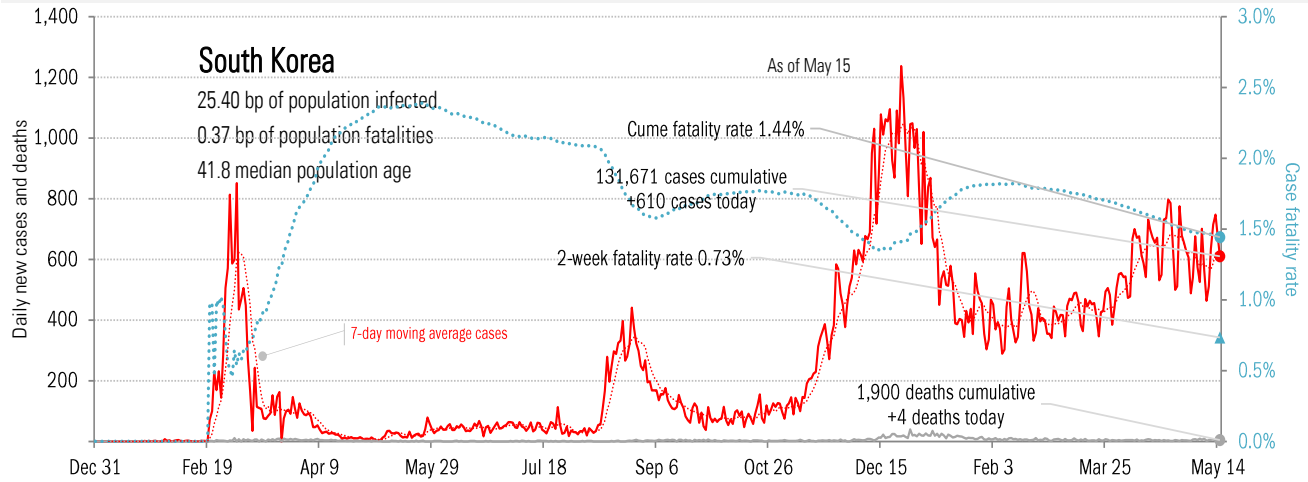
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



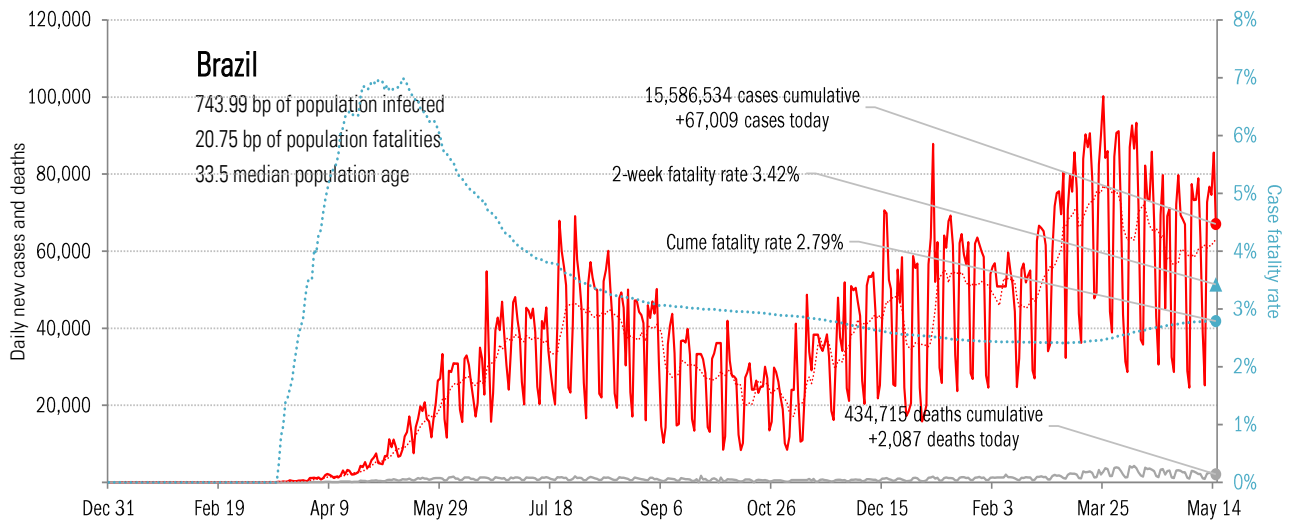
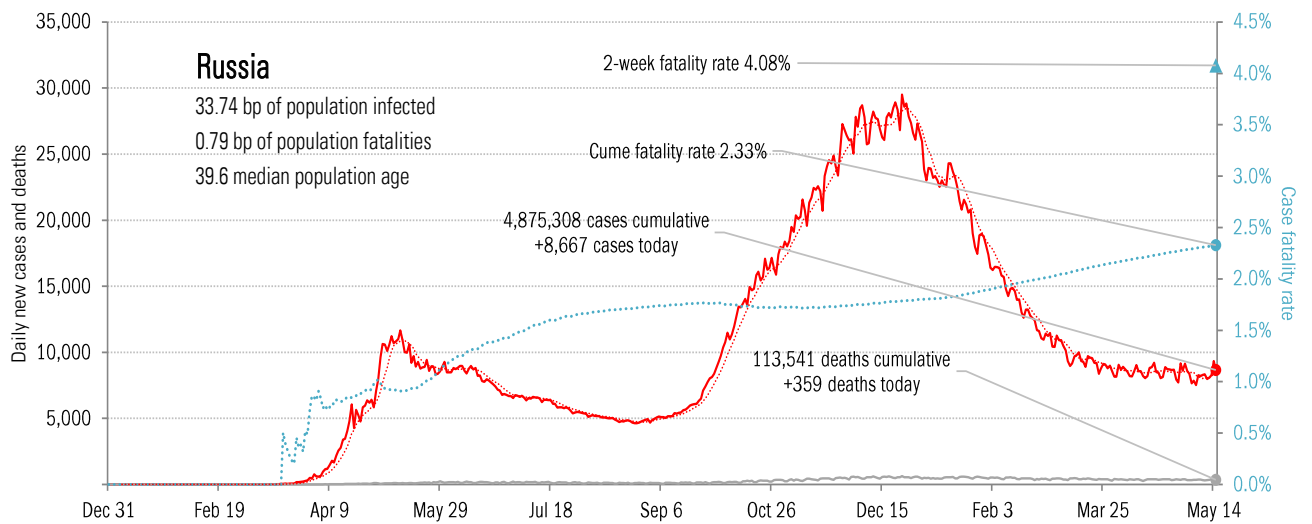
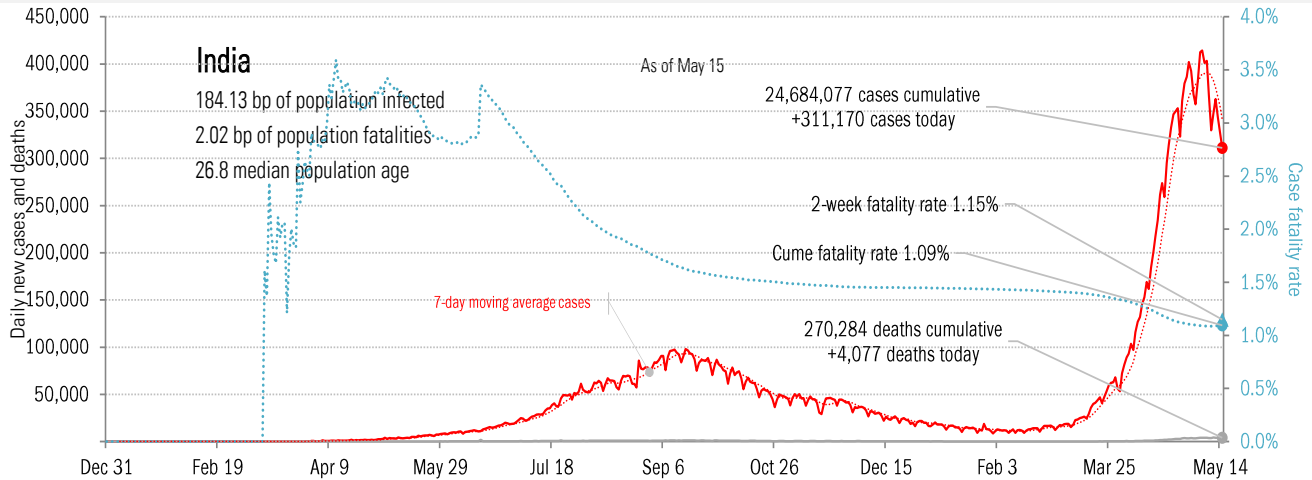
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



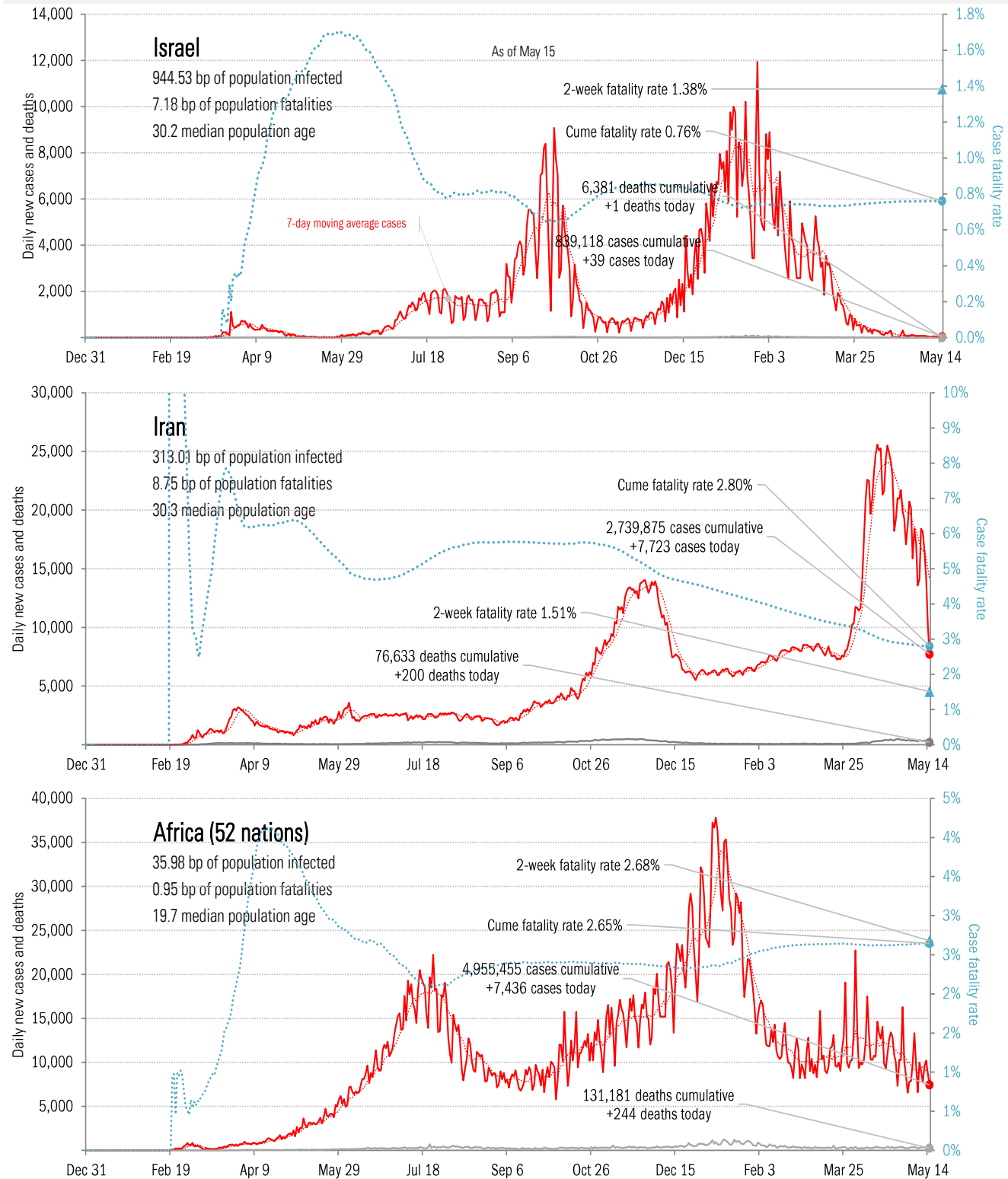
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



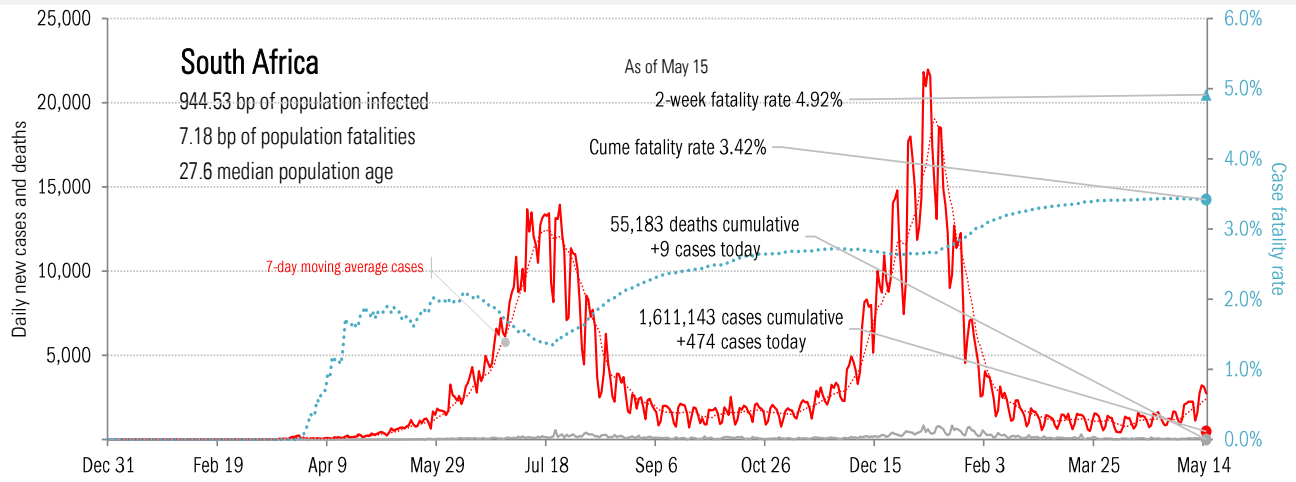
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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