

Data Insights: Covid-2019 Monitor

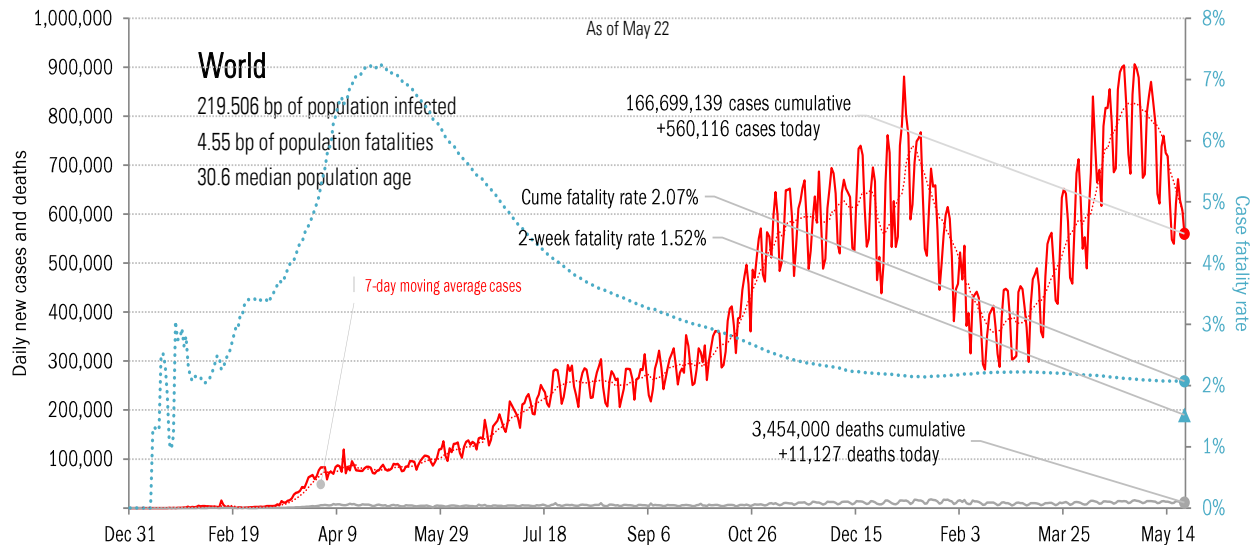
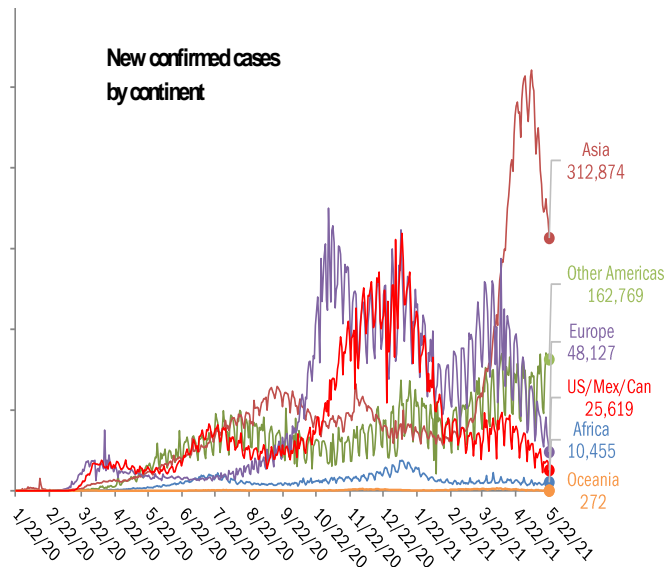
Sunday, May 23, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+240,842	India	+3,741
Brazil	+76,490	Brazil	+1,899
Argentina	+32,171	Peru	+554
United States	+19,778	Colombia	+509
Colombia	+18,737	United States	+480
Peru	+10,491	Russia	+380
Turkey	+8,697	Mexico	+341
Nepal	+8,591	Argentina	+297
Russia	+8,585	Turkey	+231
Iran	+8,005	Poland	+191
+432,387		+8,623	
World	+560,116	World	+11,127
Top ten	77%	Top ten	77%

New confirmed cases by continent



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

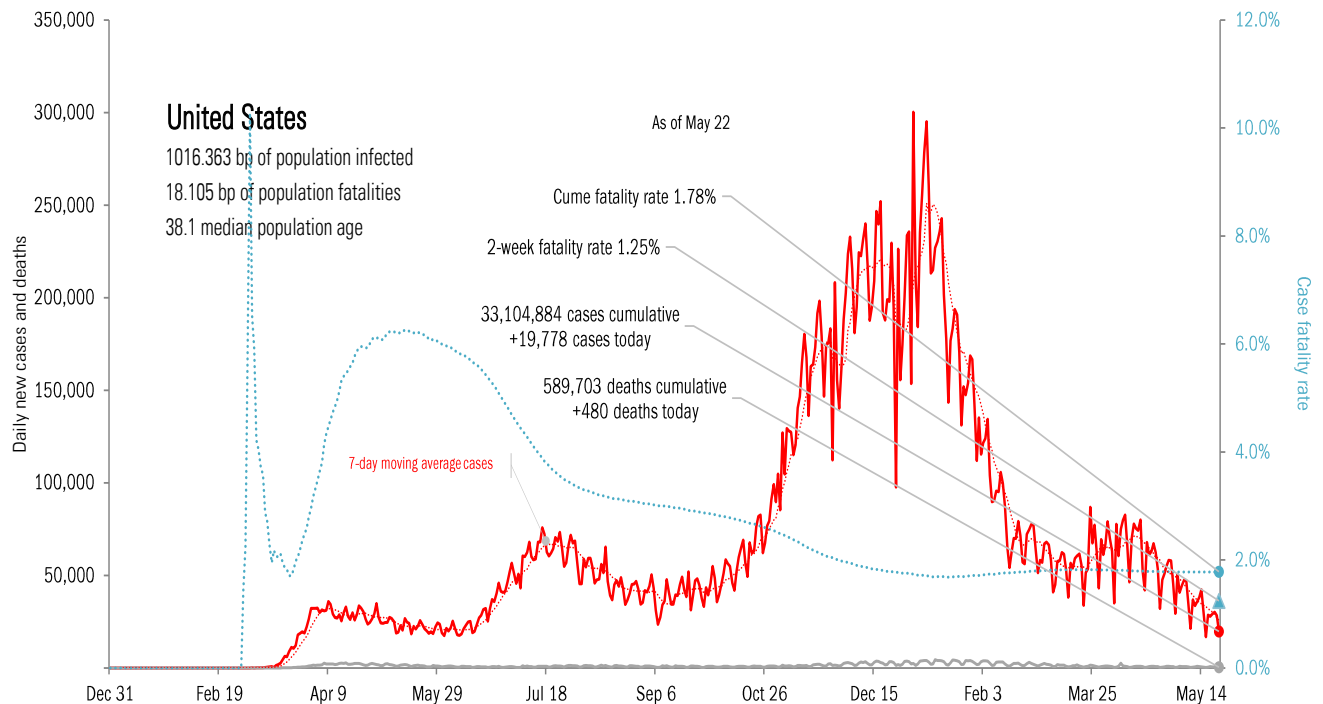
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
FL	+3,406		MI	+89		GA	+72		CA	3,776,346		CA	62,911		TX	246,271		R	92%	MI	19%
NY	+1,329		CA	+49		WA	+23		TX	2,940,679		NY	53,112		CA	234,846		MA	83%	CO	18%
PA	+1,236		IL	+41		KS	+21		FL	2,308,266		TX	51,209		FL	177,500		MO	81%	ME	14%
MI	+1,206		TX	+39		TX	+17		NY	2,094,245		FL	36,463		NY	133,317		GA	81%	MN	13%
IL	+1,109		PA	+36		WV	+10		IL	1,374,479		PA	26,978		GA	105,793		MD	80%	WV	13%
TX	+982		AL	+32		WY	+10		PA	1,195,979		NJ	26,084		PA	88,844		CT	80%	MD	13%
CH	+871		GA	+24		NH	+9		GA	1,119,614		IL	24,976		CH	84,875		PA	80%	MO	12%
CO	+841		VA	+23		NM	+9		CH	1,096,617		GA	20,661		IL	79,802		MI	80%	NM	12%
CA	+727		FL	+22		MS	+8		NJ	1,013,787		MI	20,140		KY	74,543		DC	78%	ID	12%
IN	+665		MD	+17		DC	+6		NC	995,754		CH	19,709		MI	70,750		MN	78%	GA	12%
+12,372			+372			+185			17,915,766			342,243			1,296,541						
All states	+19,778		+480			-219			All states	33,104,884		589,703			2,323,393			All states	70%	67%	
Top ten	63%		78%			-84%			Top ten	54%		58%			56%			Median	72%	8%	

Some states not reporting

Five most improved US states

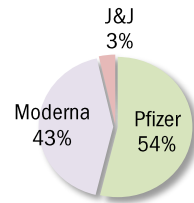
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
WA	-1,646	CH	-81	FL	-72	CO	+88 bp
NC	-1,020	FL	-72	KY	-49	MA	+81 bp
PA	-829	GA	-22	NC	-39	OR	+70 bp
IL	-470	IN	-16	AZ	-34	WA	+66 bp
TX	-454	TN	-16	NY	-25	MIN	+60 bp



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	369,656,325				+2.366 million	US	38.6%	48.6%
Doses administered	292,868,480				+2.381 million	UK	32.5%	55.6%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	14.5%	33.4%
Total population	166,878,398	50%	132,828,434	40%	+1.246 million	Spain	16.8%	35.0%
Age 12 to 17	4,699,483	19%	1,906,529	8%	+0.067 million	Germany	13.5%	39.7%
Age 18 to 64	113,978,367	56%	89,113,028	44%	+1.048 million	Italy	16.5%	34.5%
Age 65 and over	48,207,298	88%	41,800,228	76%	+0.130 million	Australia	2.1%	5.3%
						Israel	59.1%	62.9%
						Canada	4.3%	50.6%
						Japan	2.0%	4.4%
						Africa	0.5%	1.6%
						India	3.0%	10.8%
						Brazil	8.7%	18.4%



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 **79 days** by Aug 8, 2021
 62.6% of population >18 immunized
 13.9% previously tested positive
76.5% vs 60% adult herd immunity*

Global data differs from sources, timing

AK
58.8%
45.0%
38.5%

ME
68.1%
61.3%
51.8%

WA	ID	MT	ND	MN	IL	MI	NY	MA		
59.7%	46.9%	53.2%	46.7%	56.6%	57.6%	58.0%	60.0%	68.2%		
54.1%	36.7%	44.2%	41.3%	52.8%	52.7%	47.3%	53.6%	64.3%		
43.0%	31.7%	37.2%	35.8%	43.9%	38.3%	40.3%	44.6%	49.8%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
61.9%	48.5%	46.2%	55.9%	53.8%	49.4%	52.9%	61.1%	63.6%	65.4%	70.9%
52.5%	44.0%	36.3%	47.4%	47.9%	40.5%	44.4%	56.5%	58.1%	61.2%	58.8%
41.6%	35.2%	31.1%	41.8%	42.2%	33.9%	38.8%	41.3%	46.6%	50.9%	49.3%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
61.7%	50.0%	60.3%	53.7%	49.8%	50.5%	53.2%	58.8%	66.4%	63.9%	
54.9%	44.1%	52.3%	47.1%	41.1%	44.9%	39.4%	53.2%	55.0%	52.3%	
40.7%	31.3%	43.2%	40.9%	33.4%	37.3%	33.4%	42.7%	44.8%	40.7%	
AZ	NM	KS	AR	TN	NC	SC	DC			
55.6%	56.3%	53.2%	48.3%	46.3%	55.8%	51.3%	75.3%			
44.8%	55.7%	45.6%	38.5%	38.2%	42.3%	39.8%	55.3%			
34.7%	45.7%	37.2%	30.1%	30.7%	35.0%	32.6%	43.4%			
OK	LA	MS	AL	GA						
52.0%	44.0%	45.9%	48.4%	52.3%						
40.8%	34.9%	33.2%	35.4%	38.6%						
33.0%	30.4%	26.5%	28.5%	30.5%						
HI	TX	FL	PR							
65.2%	54.3%	57.8%	62.6%							
64.4%	42.5%	47.4%	47.0%							
46.2%	33.8%	37.2%	33.2%							

As of May 22

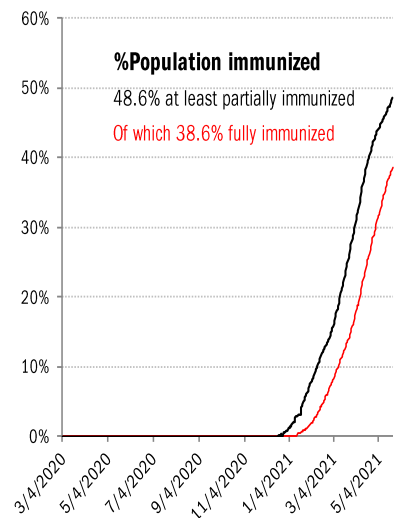
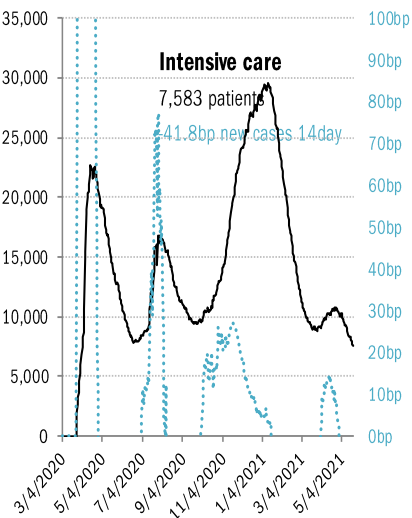
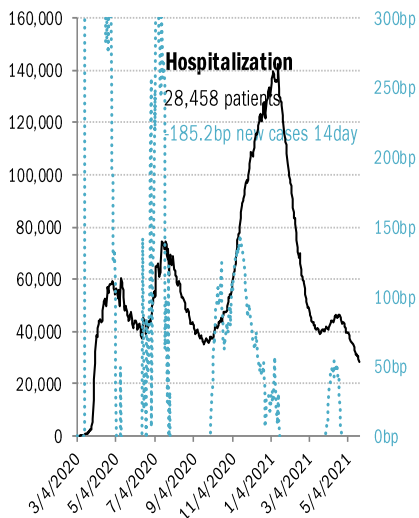
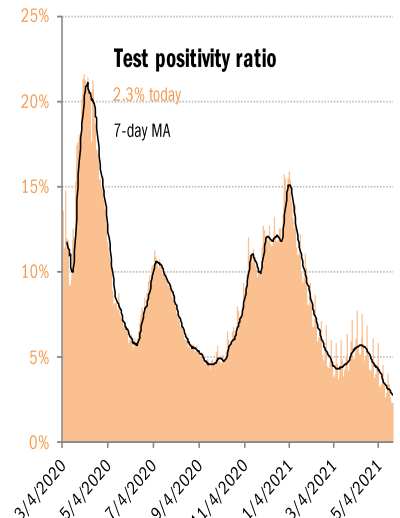
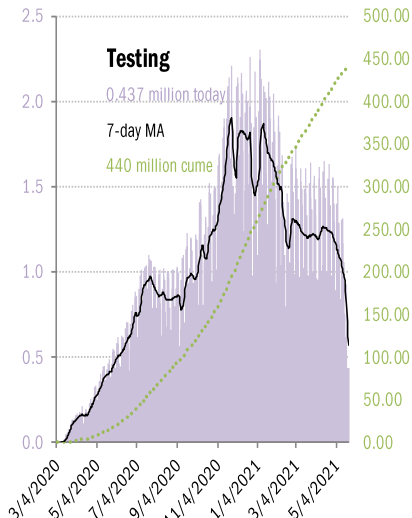
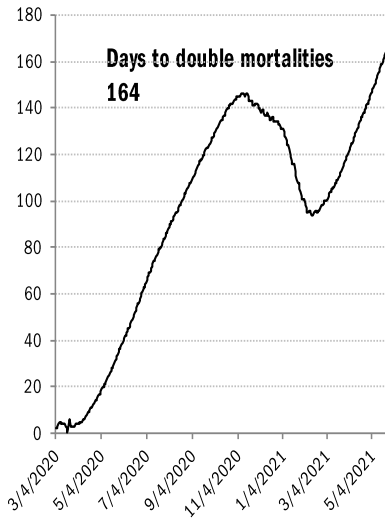
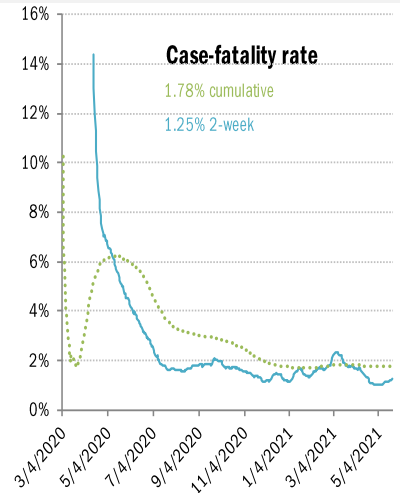
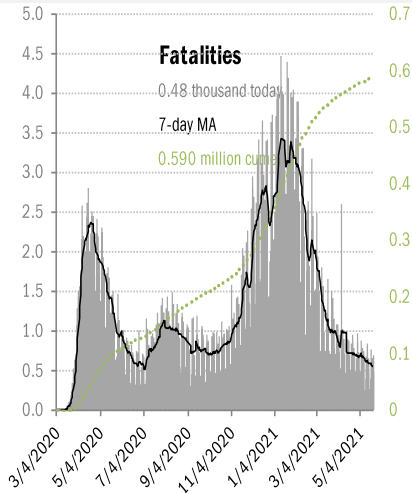
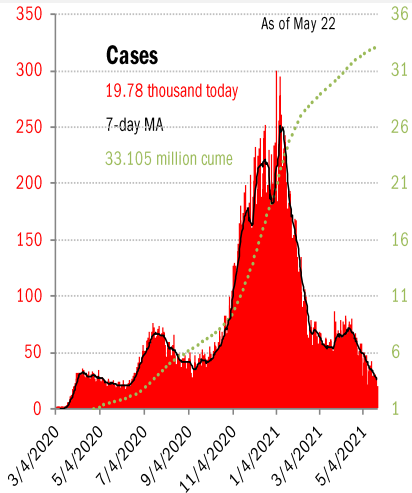
* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.

** 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

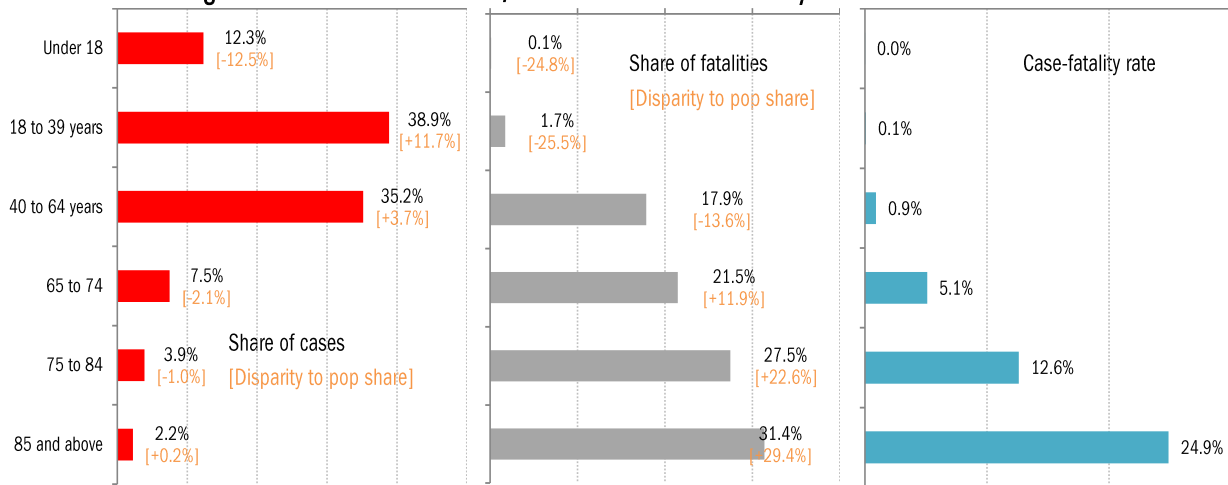
US deep-dive

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

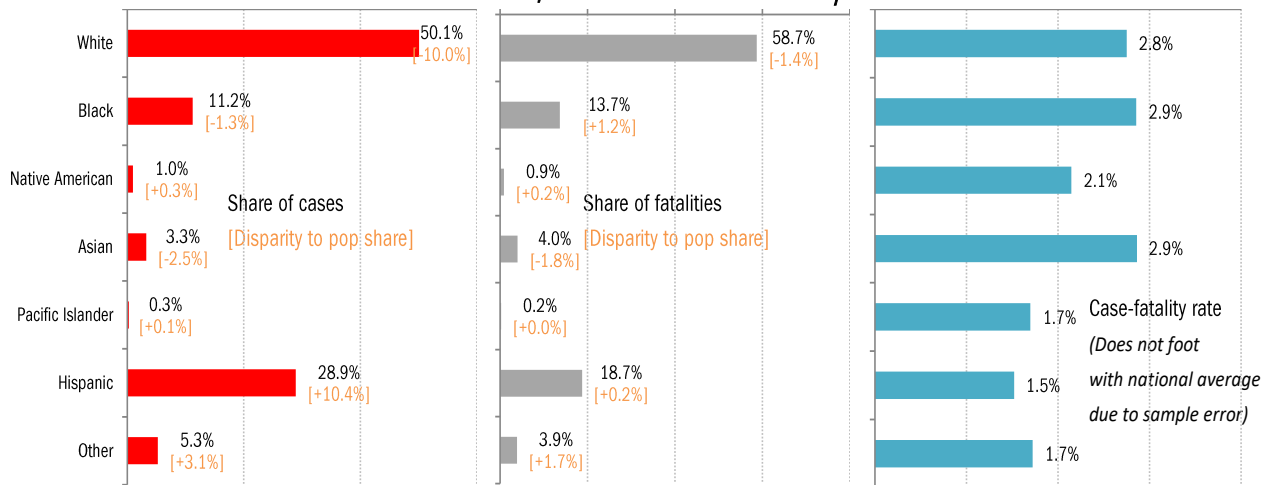


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

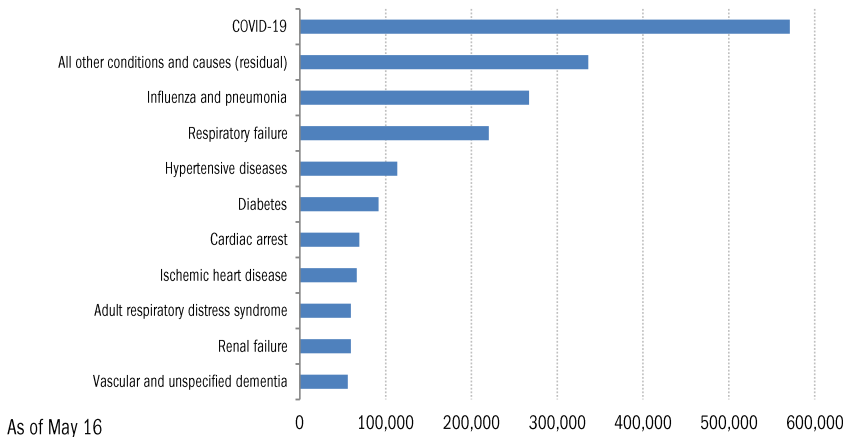


Racial distribution of US cases, fatalities and case-fatality rates Cumulative



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

[Review: From 'The Good Wife' to the Covid Zombie Apocalypse](#)

Mike Hale
New York Times
May 20, 2021

[How much have childcare challenges slowed the US jobs market recovery?](#)

Jason Furman and Wilson Powell III
Petersen Institute
May 17, 2021

[C.D.C. Is Investigating a Heart Problem in a Few Young Vaccine Recipients](#)

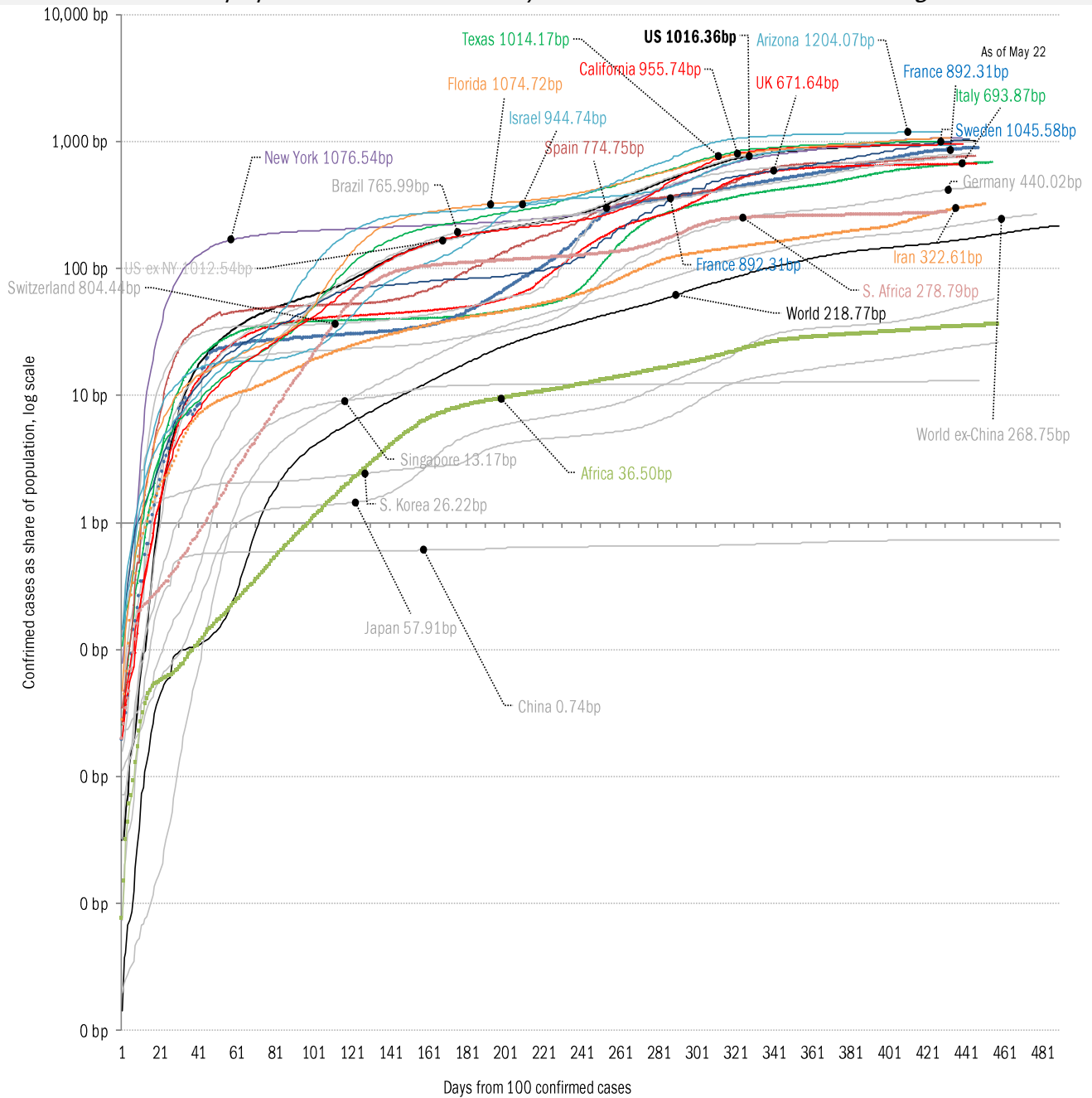
Apoorva Mandavilli
New York Times
May 22, 2021

Meme of the day



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

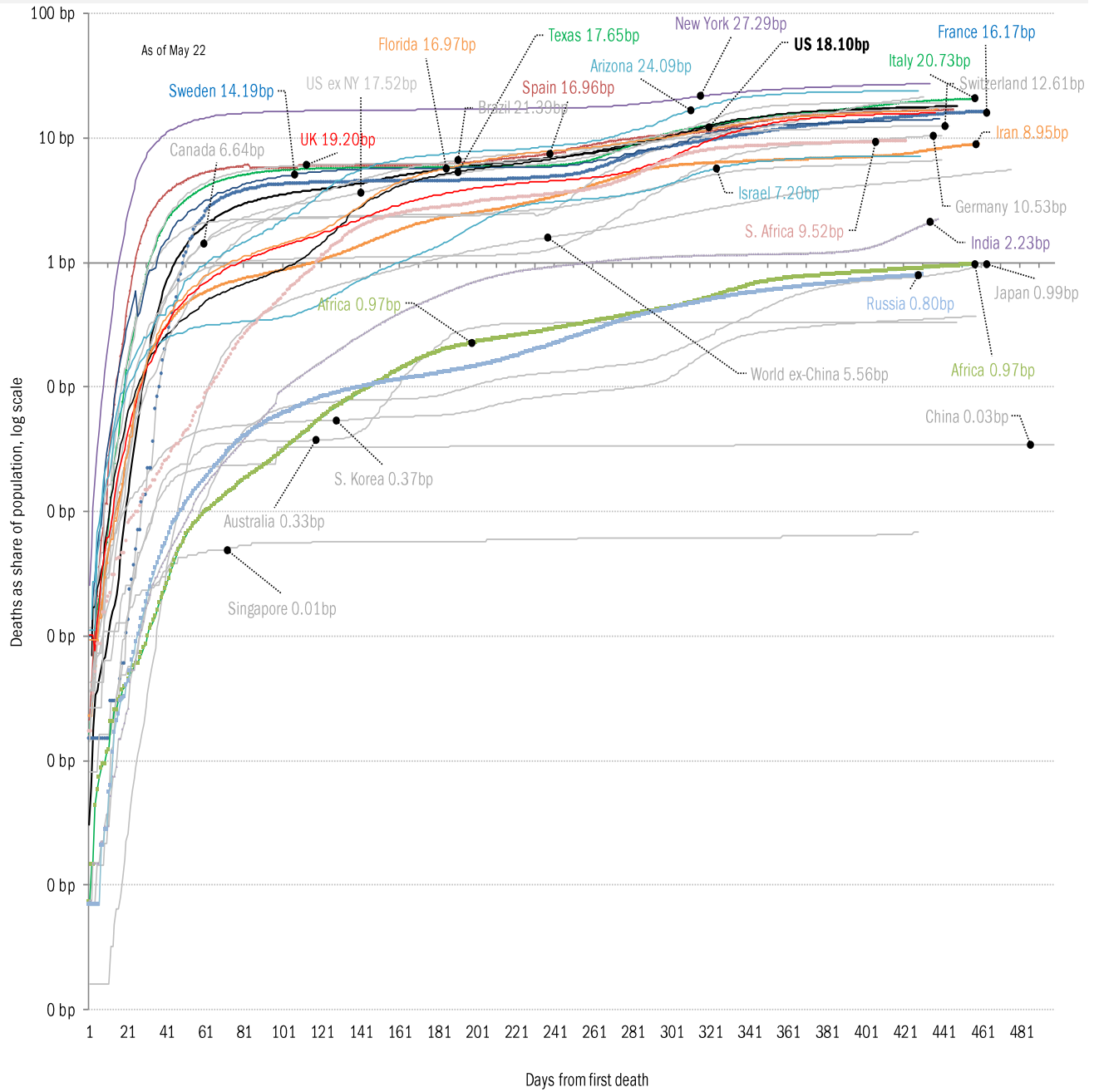
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

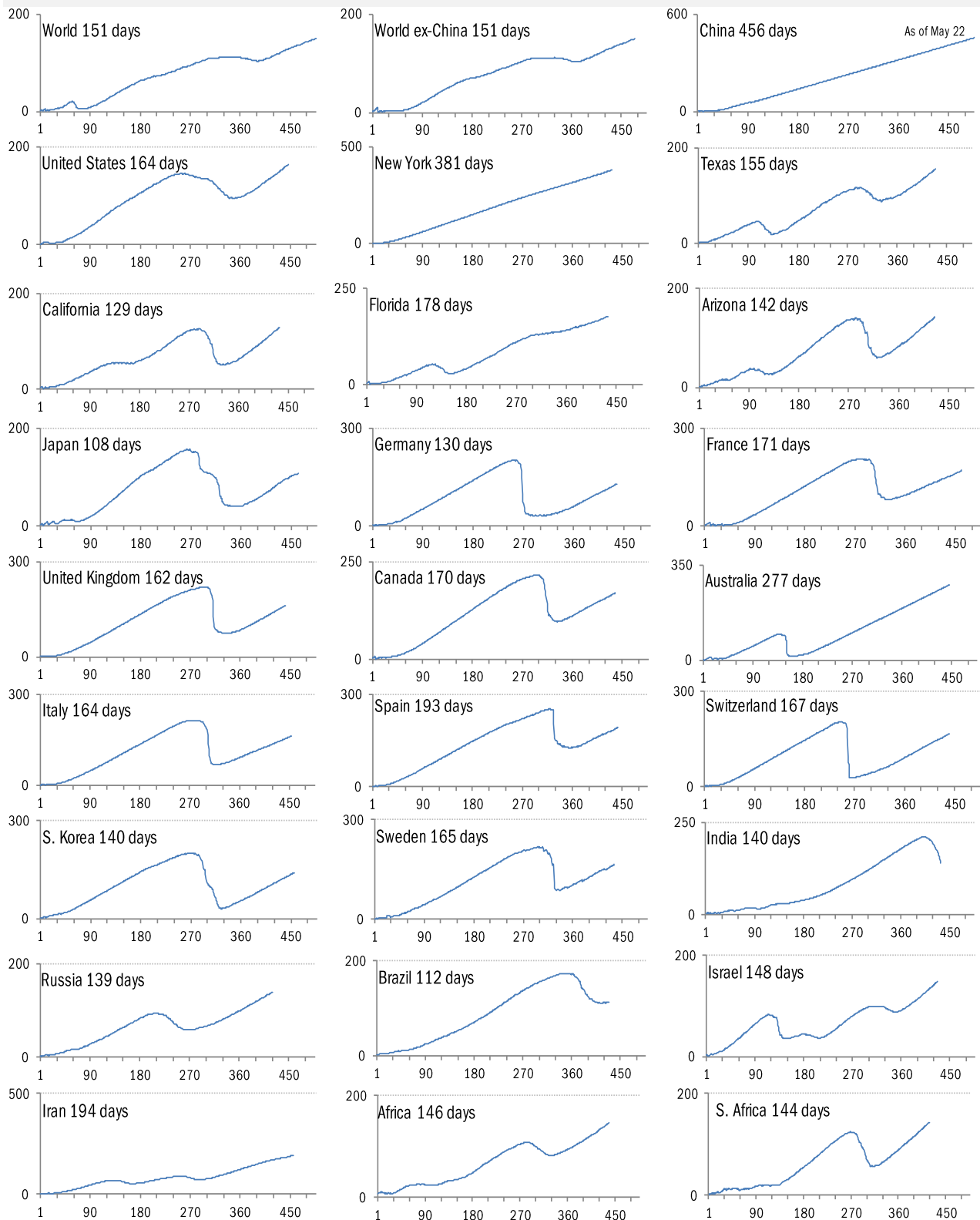


Source: [Johns Hopkins](#), TrendMacro calculations

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

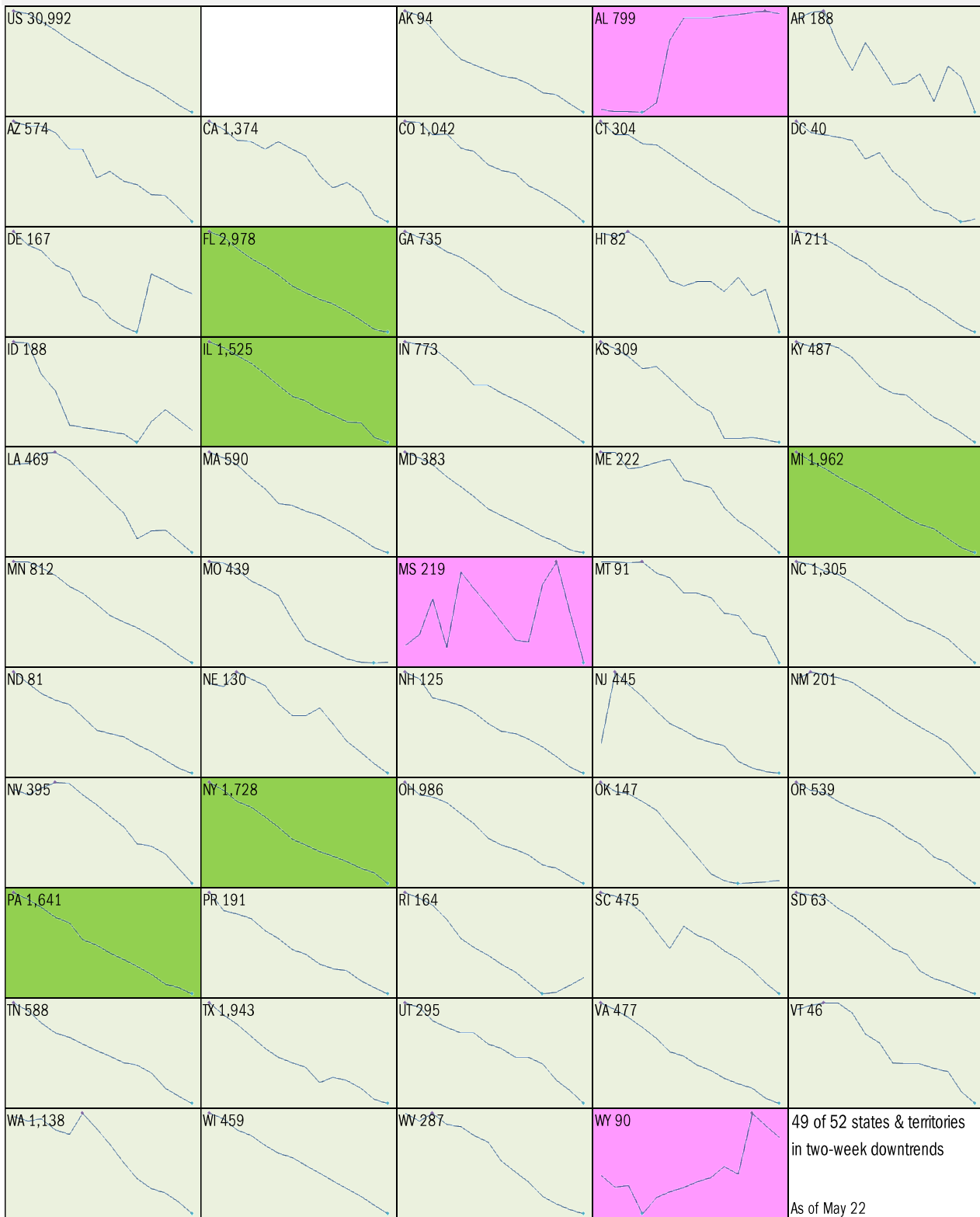
Vertical: days to double deaths Horizontal: days from first death

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



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

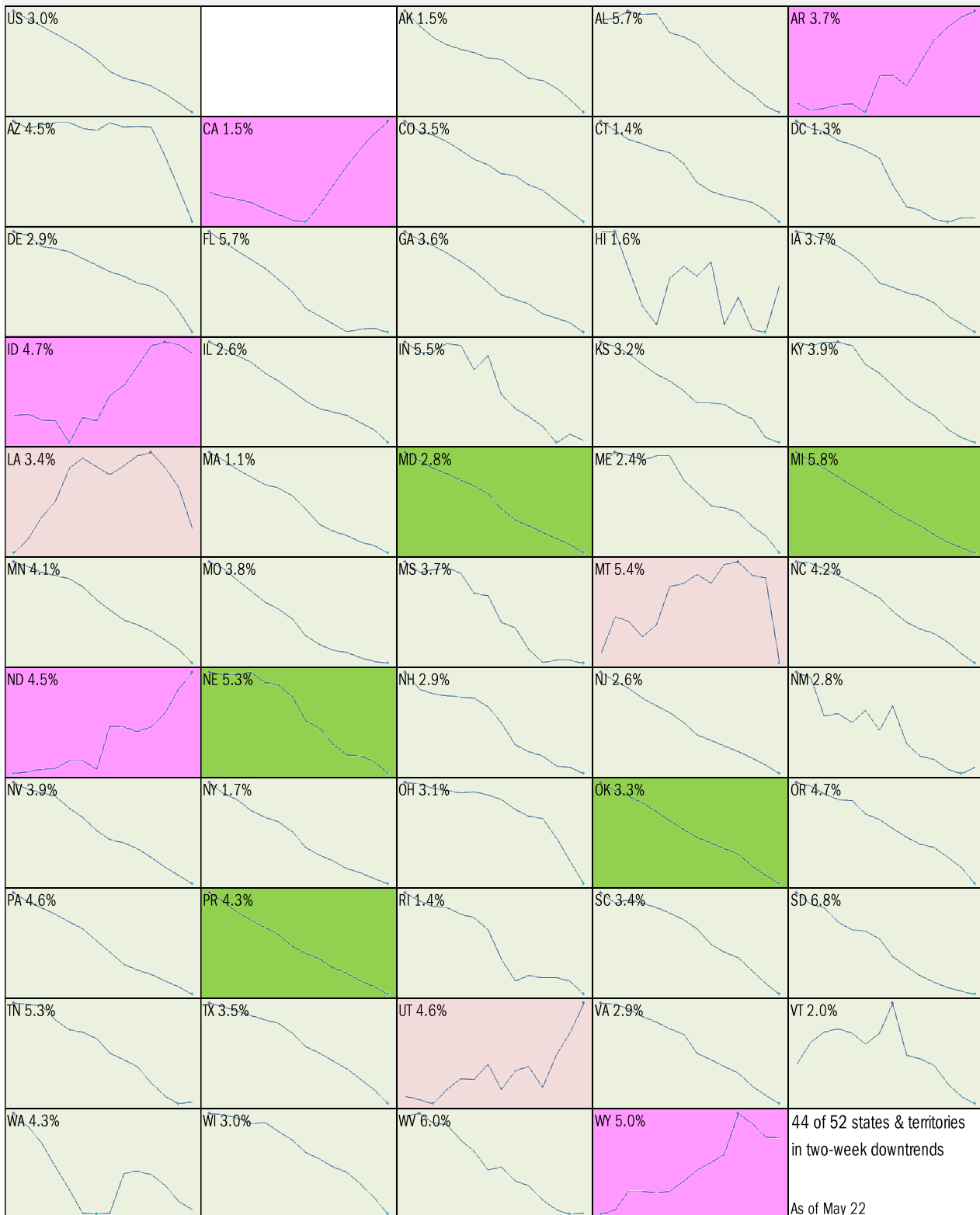


Source: [Johns Hopkins](#), TrendMacro calculations

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

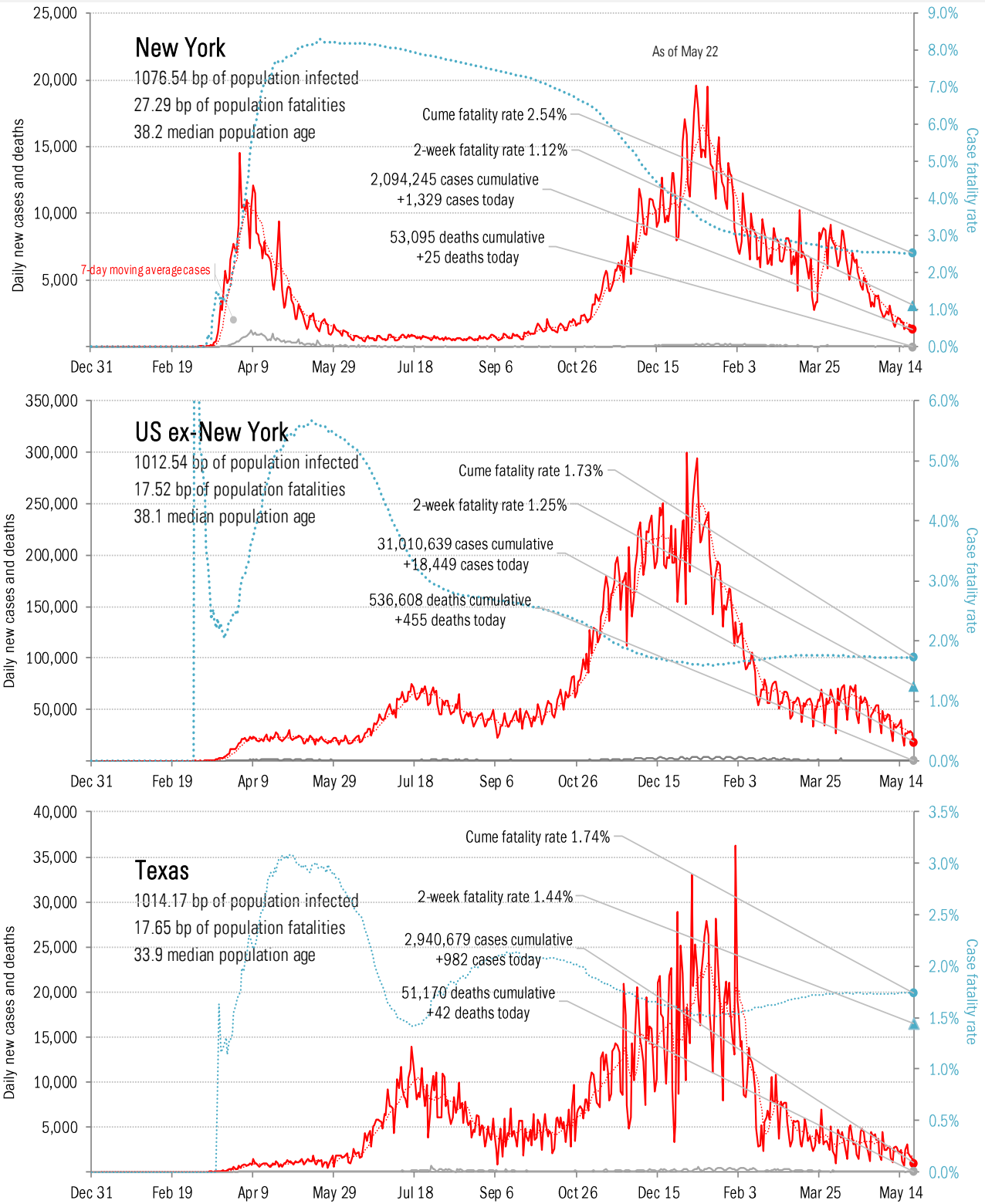
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



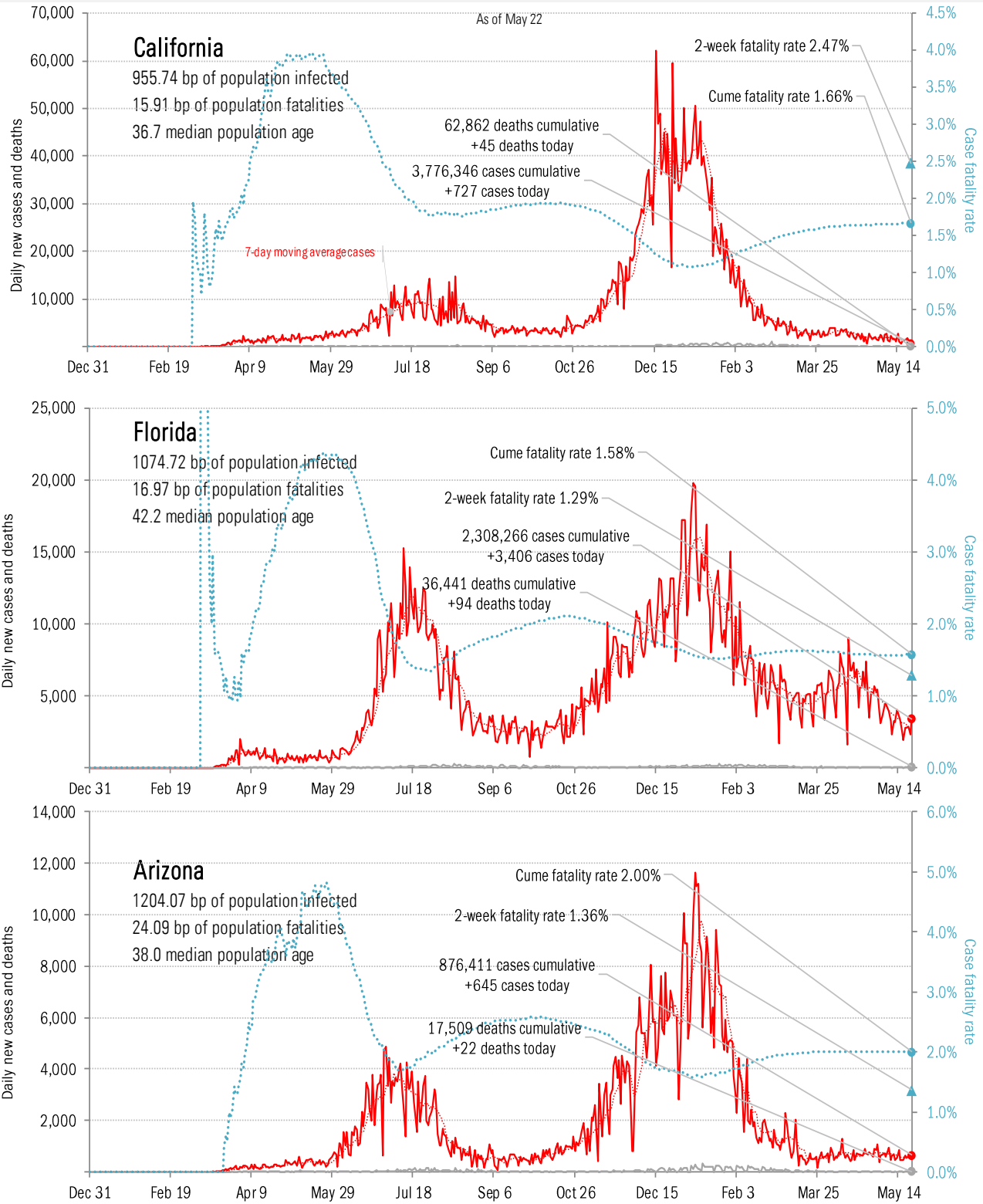
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



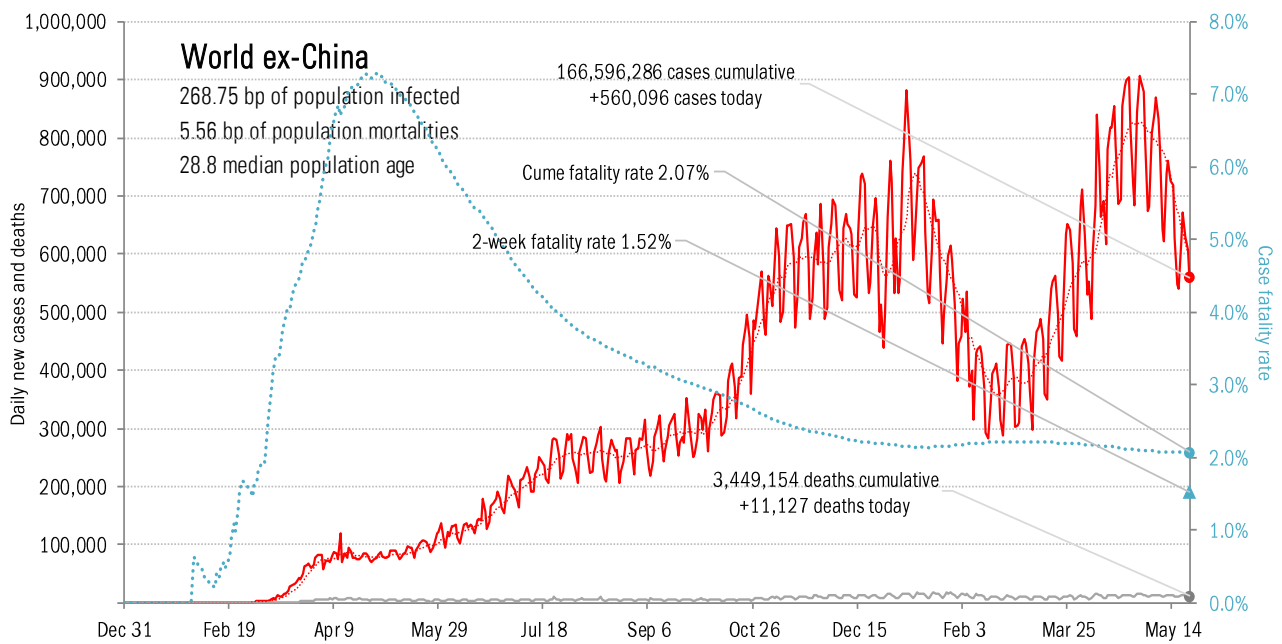
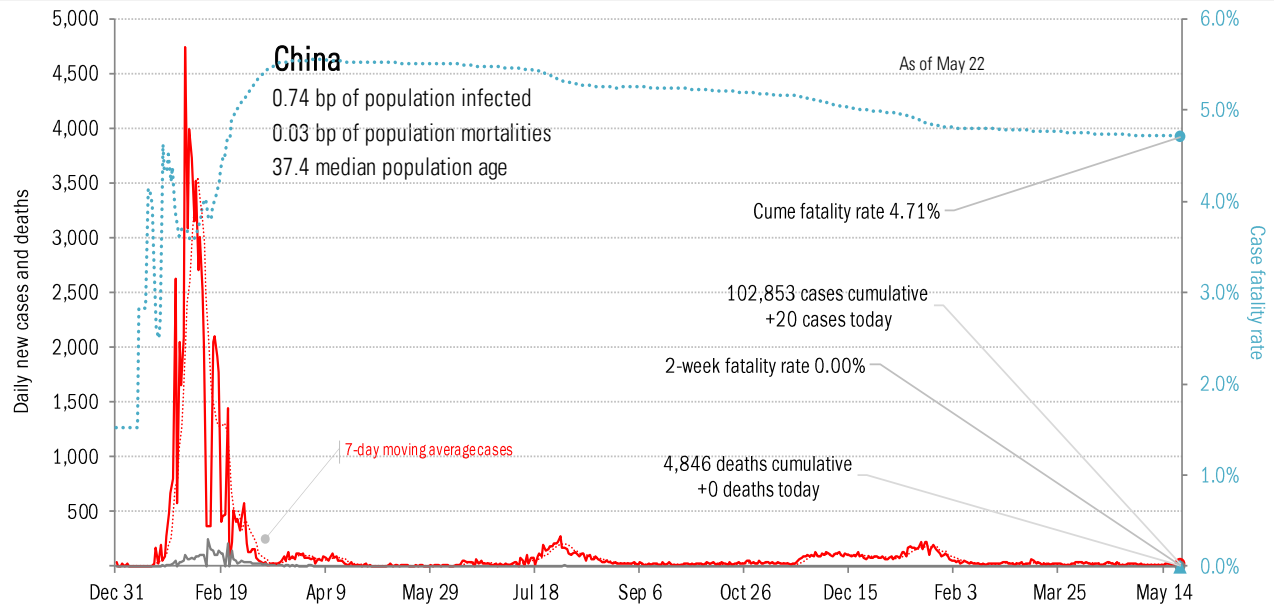
Source: [Johns Hopkins](#), TrendMacro calculations

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



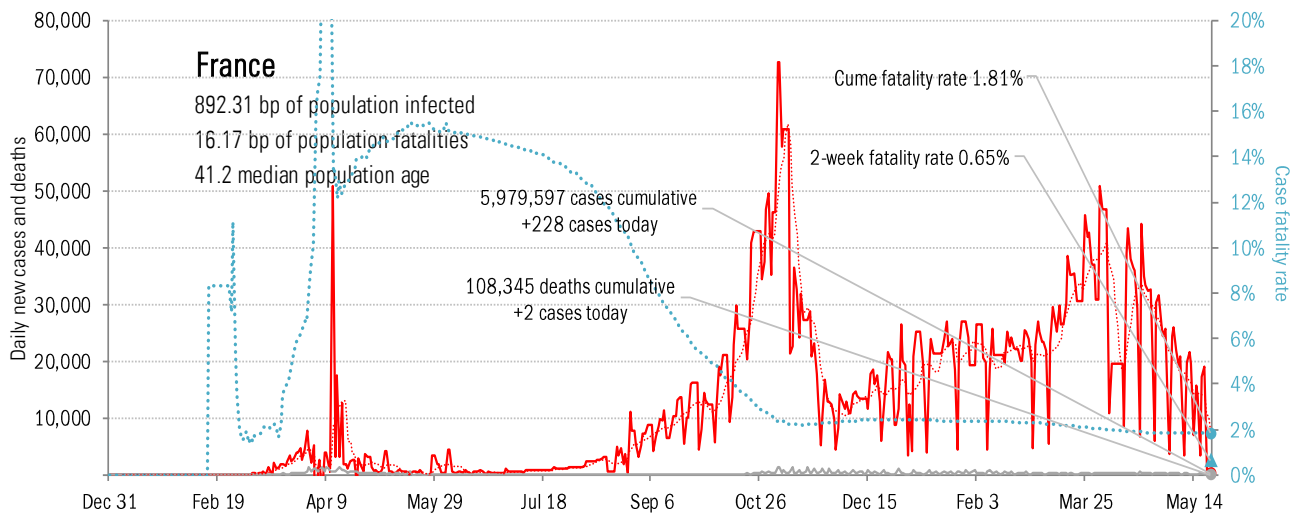
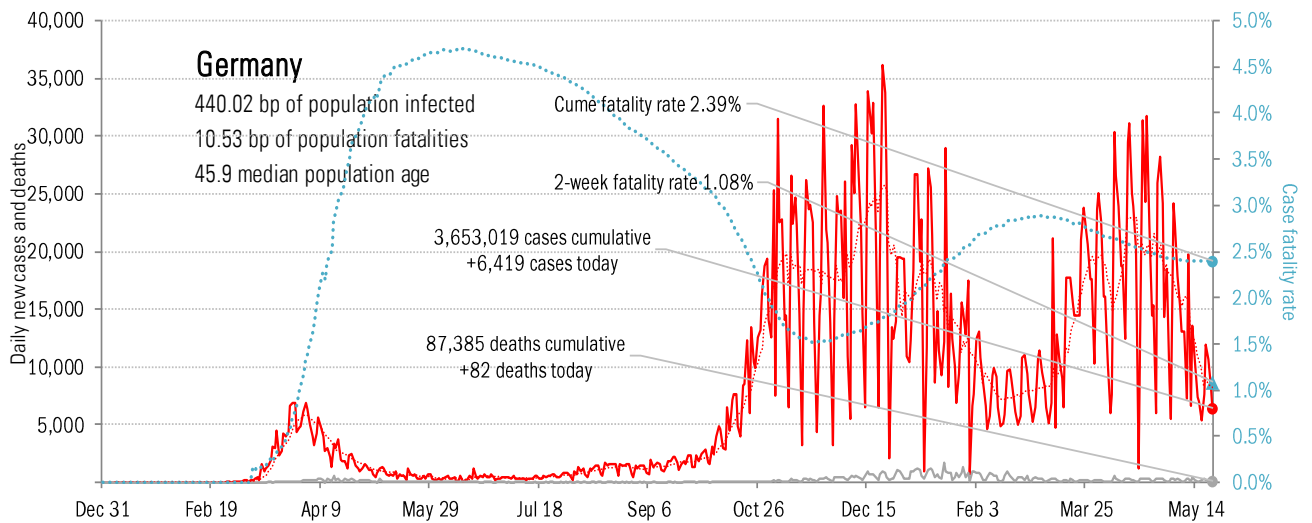
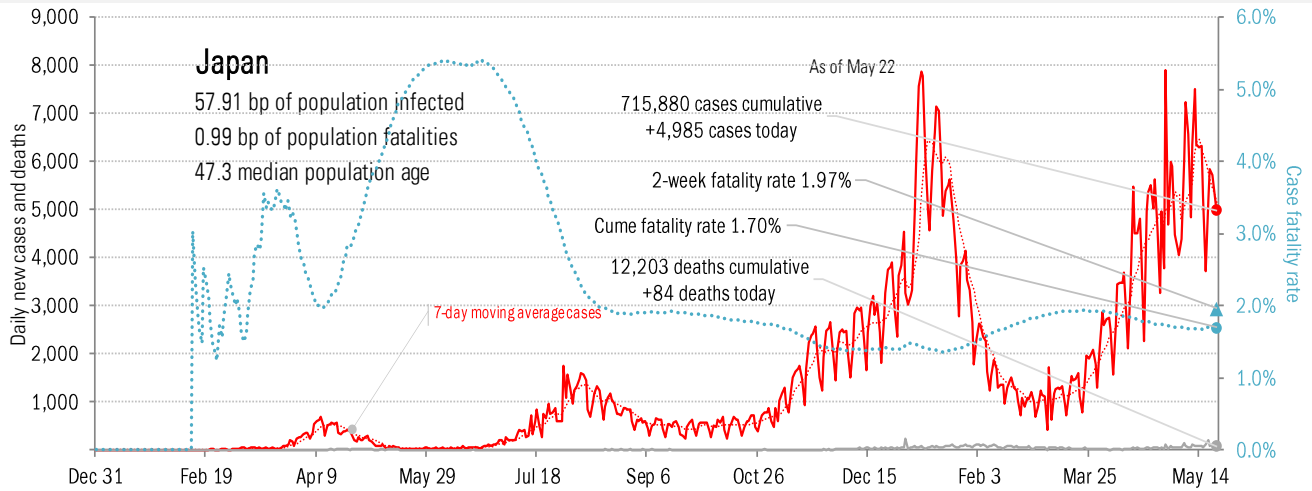
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



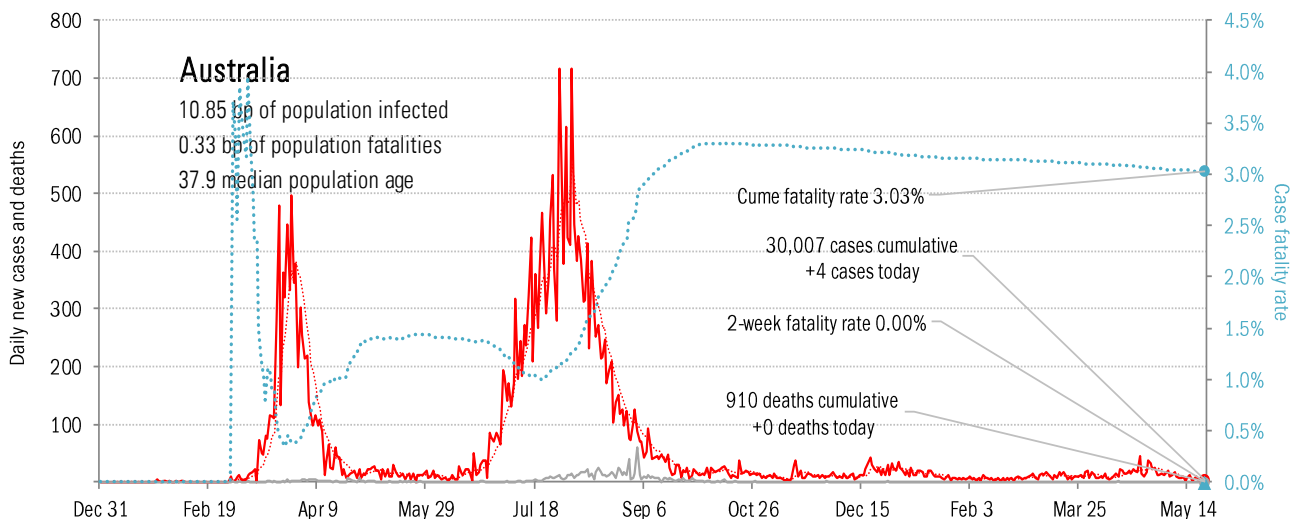
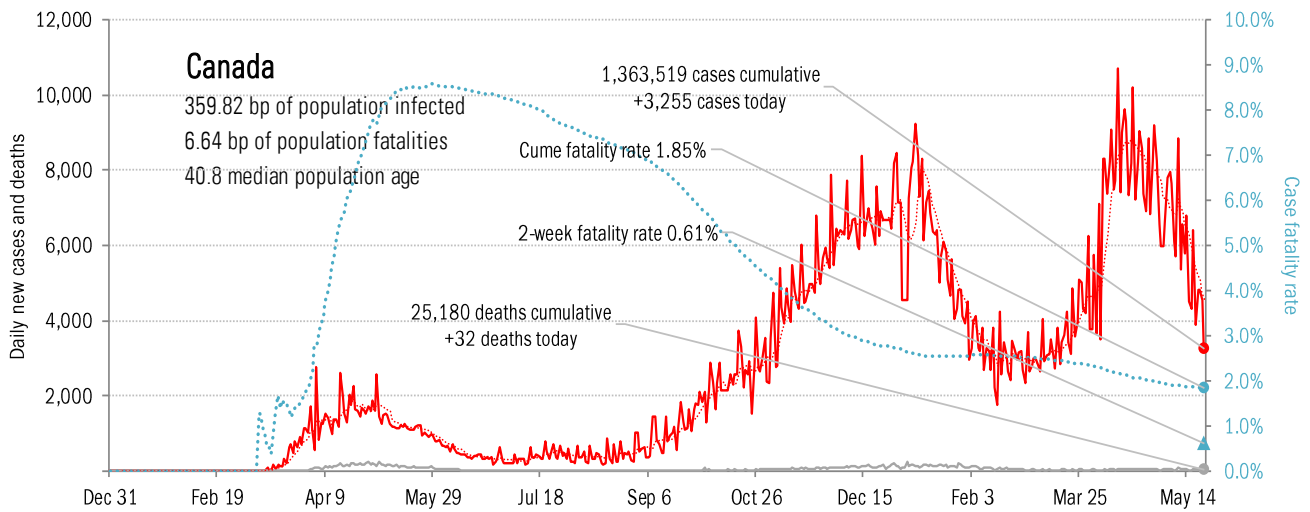
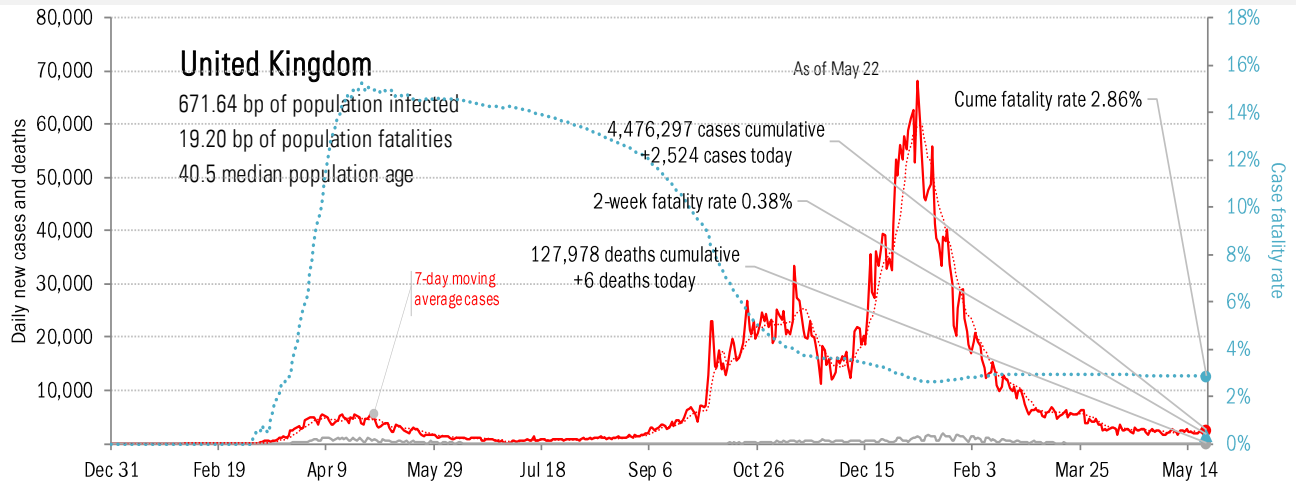
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



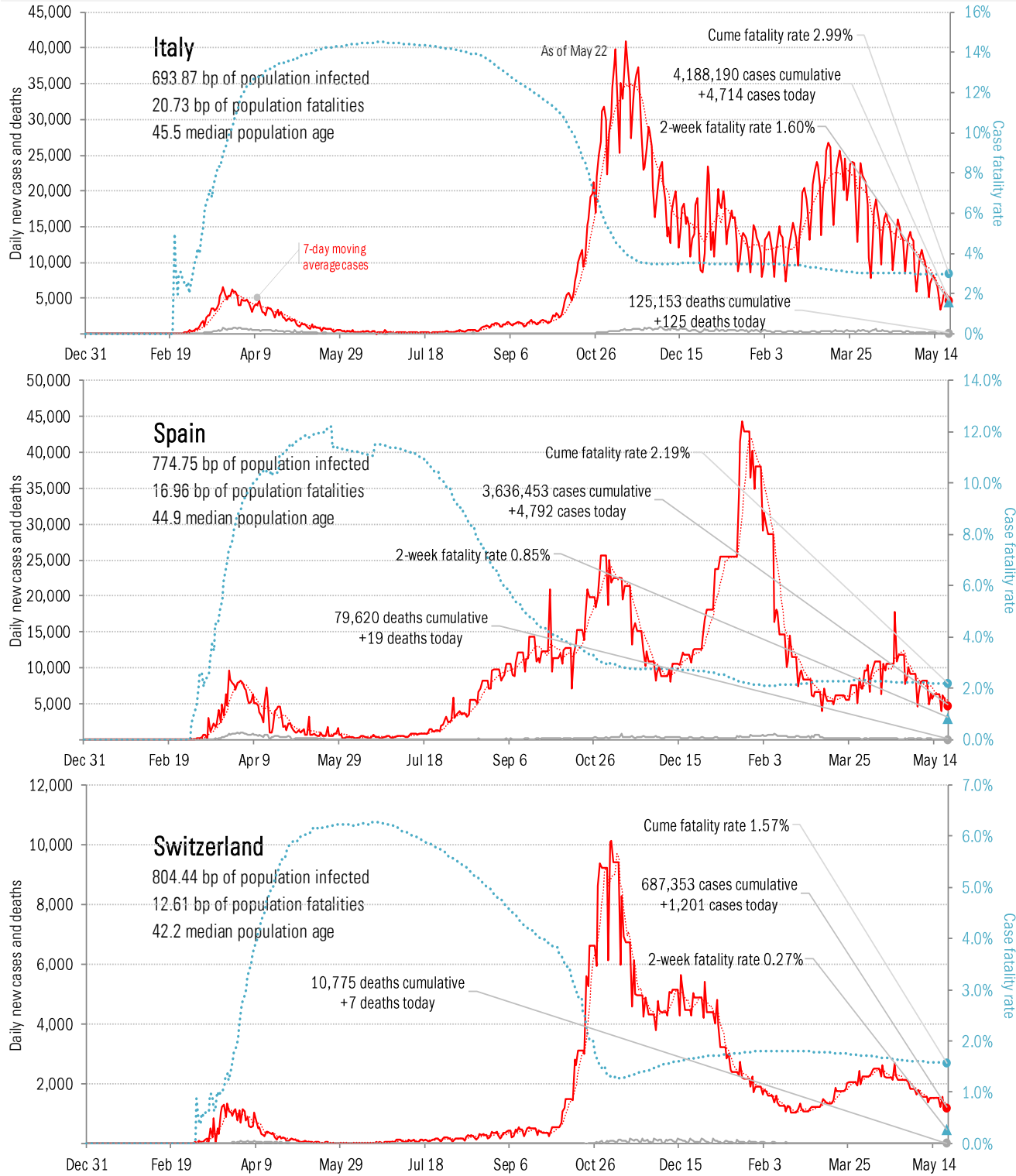
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



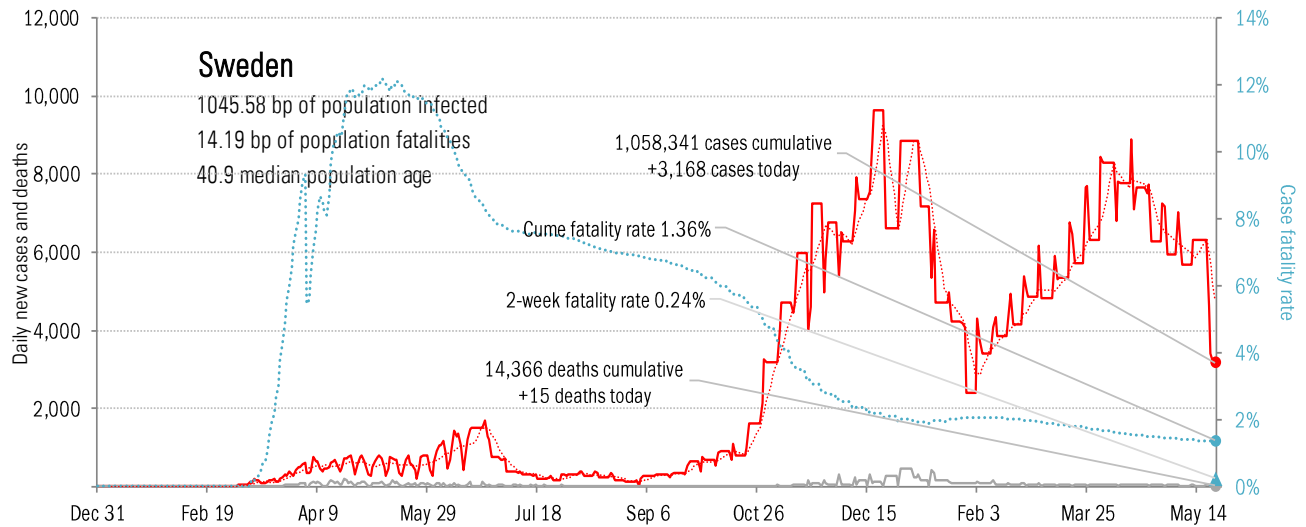
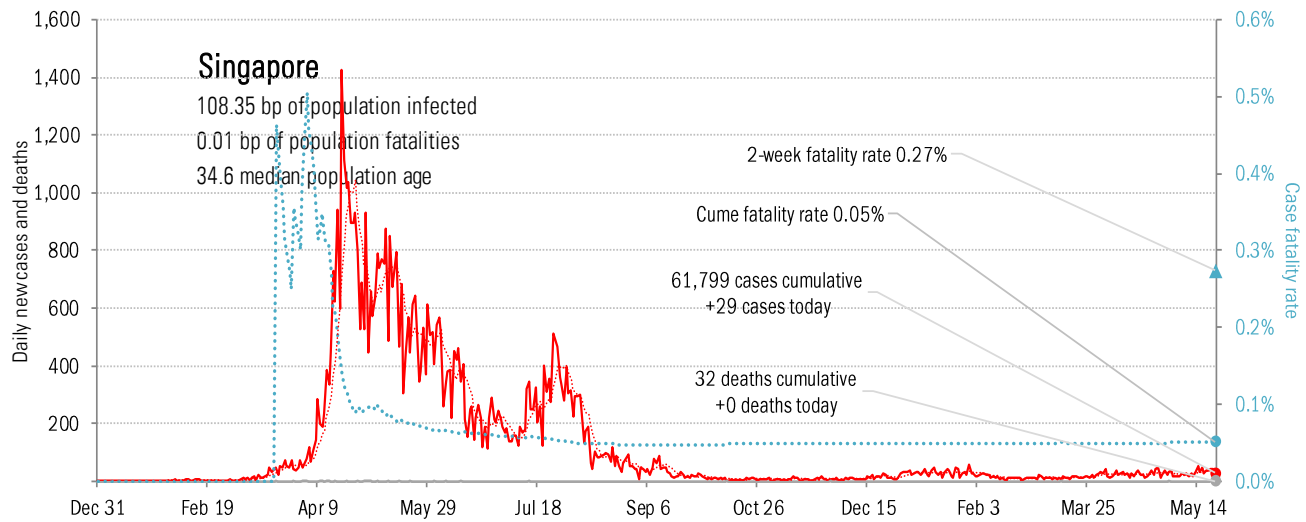
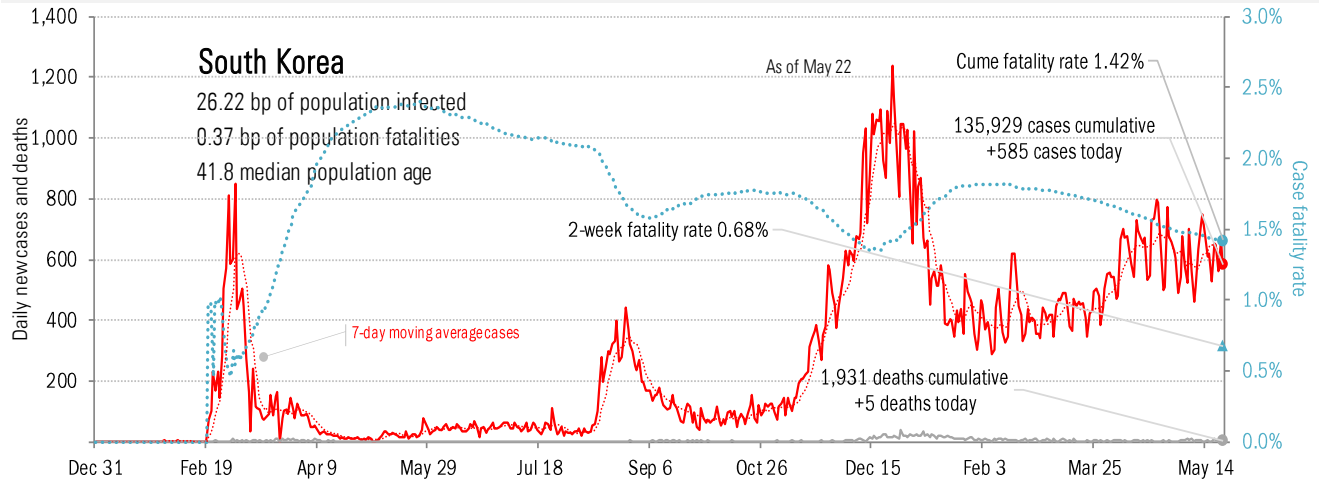
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



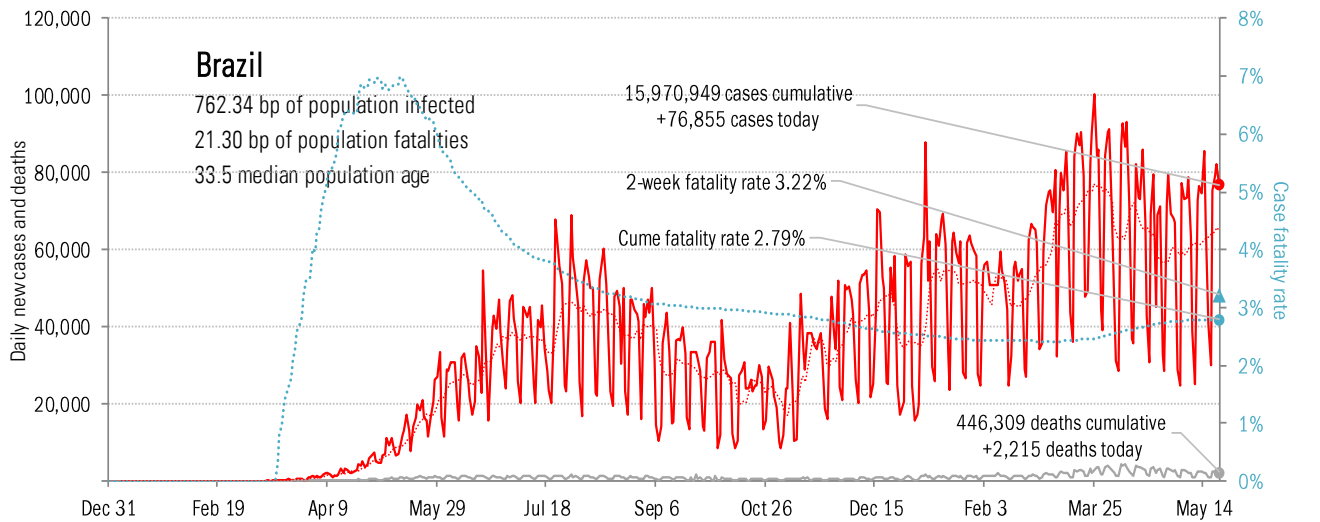
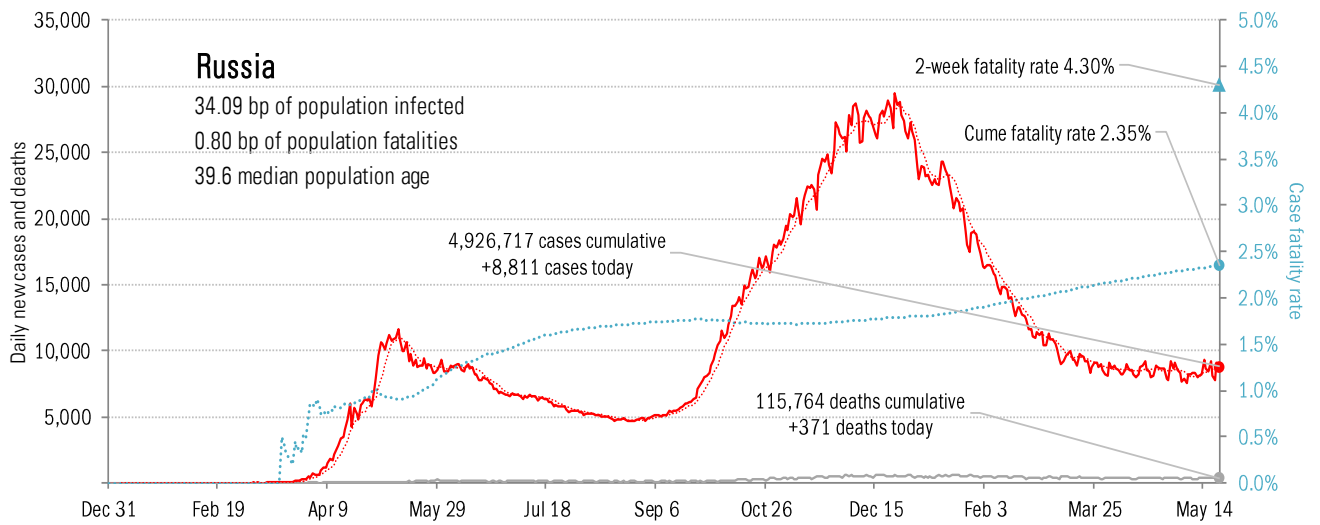
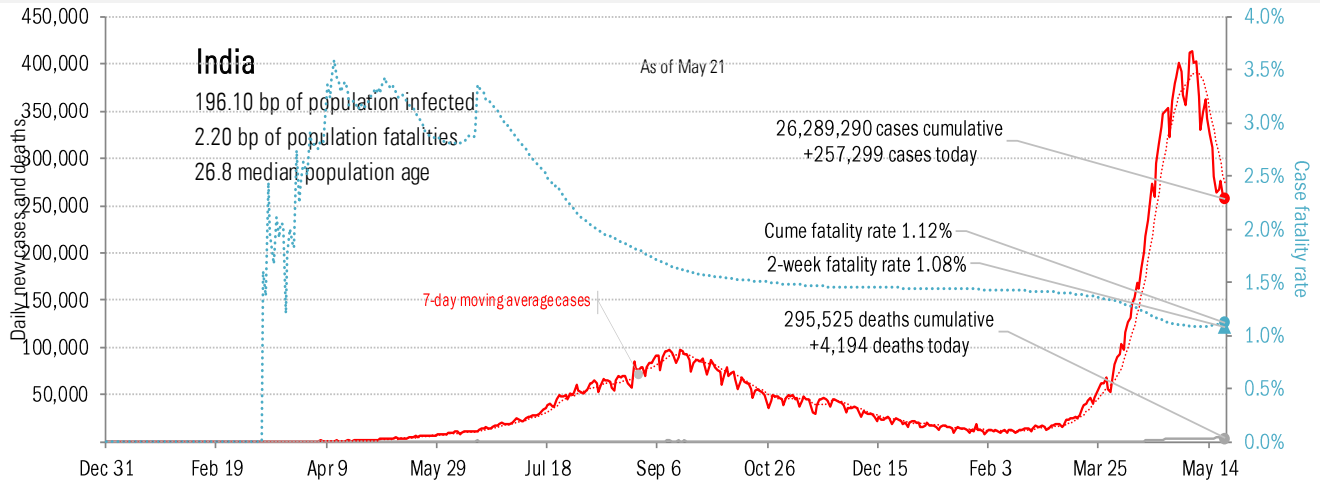
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



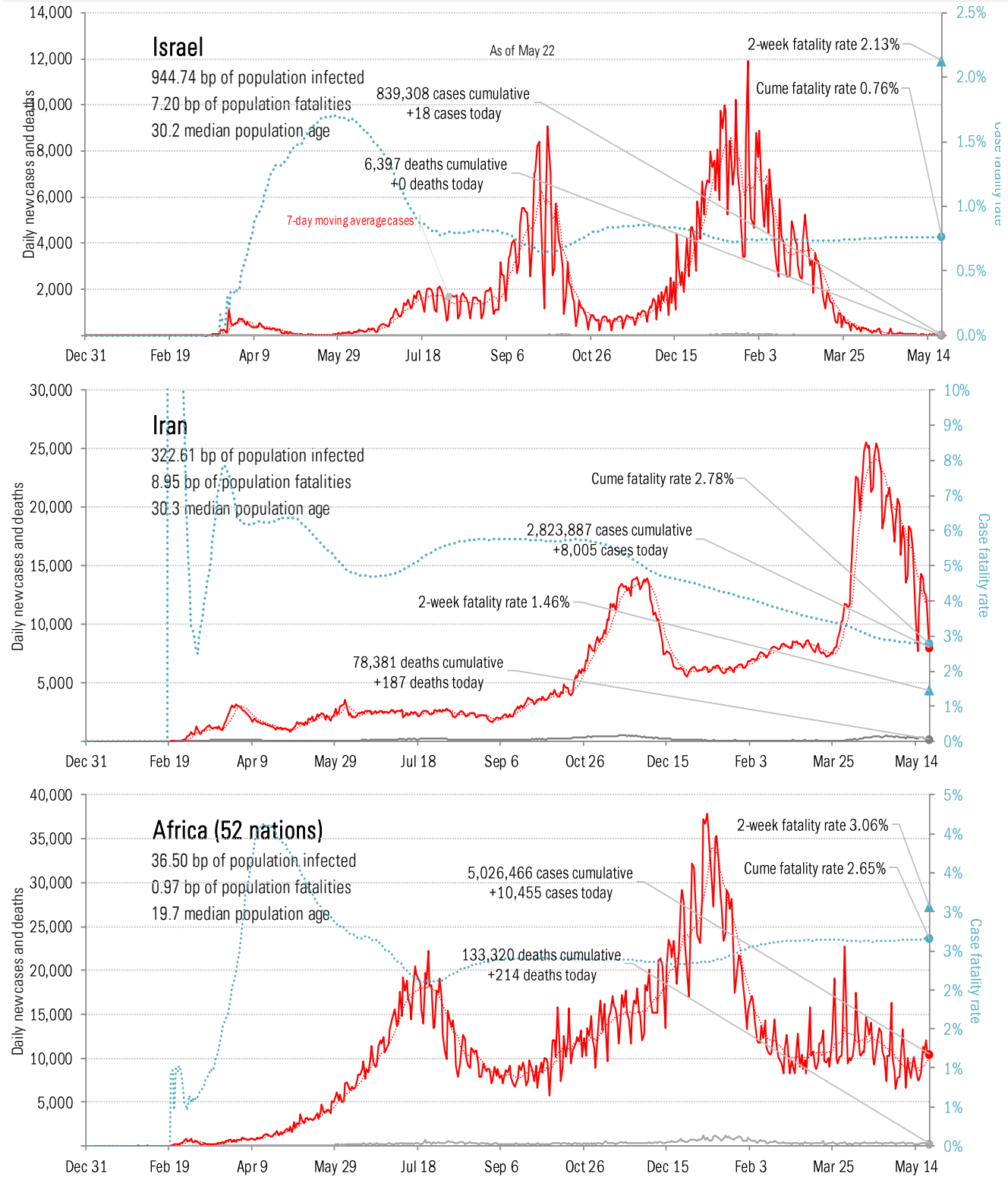
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



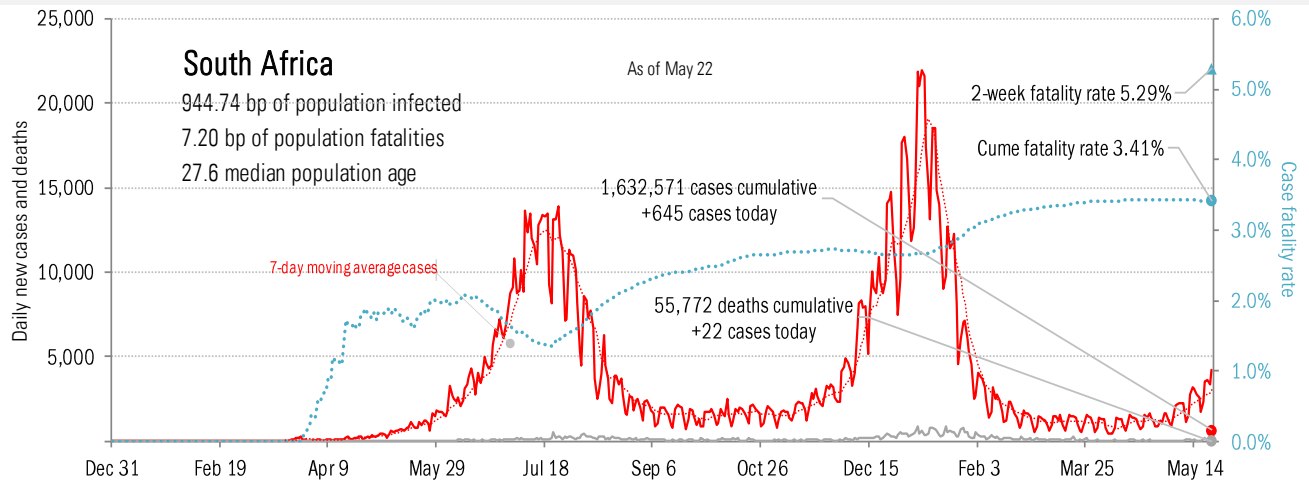
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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