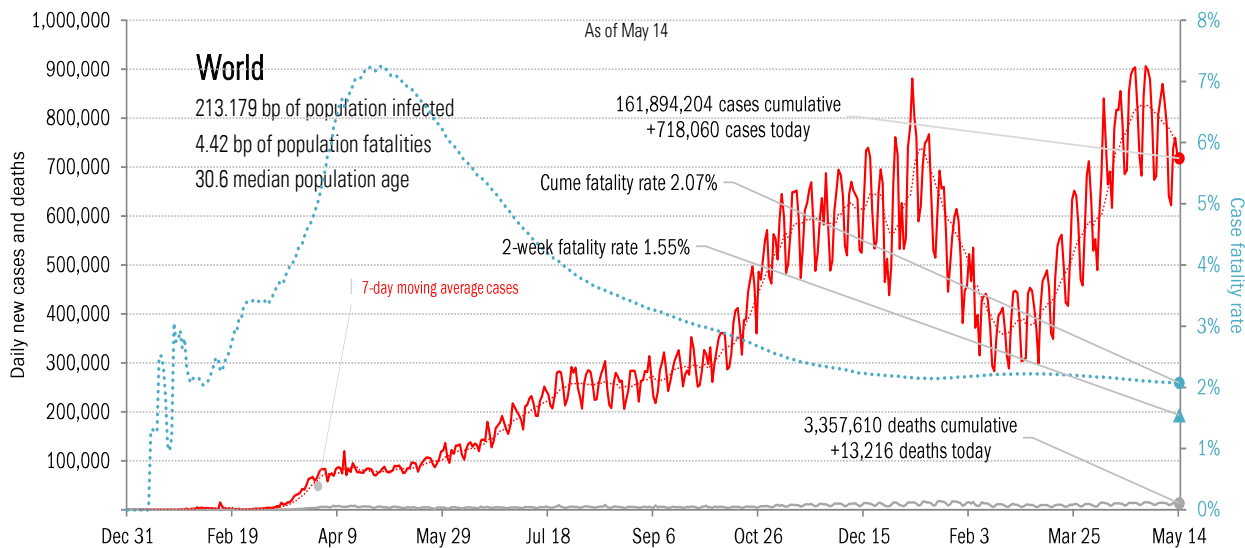
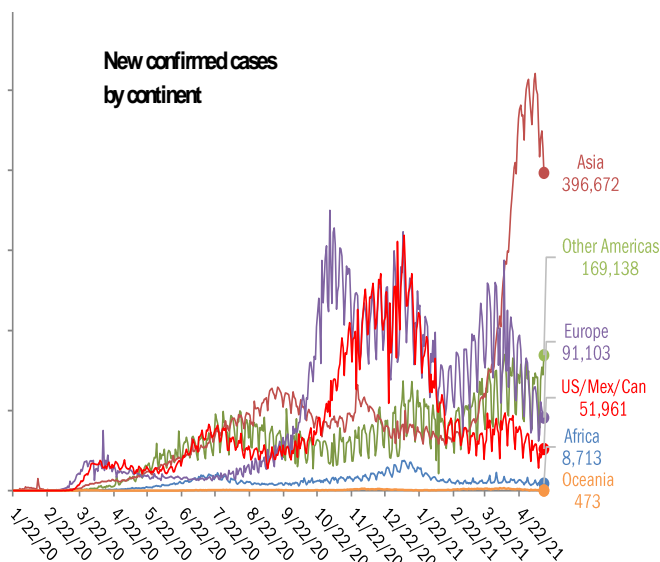


Data Insights: Covid-2019 Monitor

Saturday, May 15, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+326,098	India	+3,890
Brazil	+85,536	Brazil	+2,211
United States	+42,298	United States	+745
Argentina	+27,363	Peru	+710
Colombia	+16,581	Argentina	+599
Peru	+13,410	Colombia	+490
Turkey	+11,394	Russia	+387
Germany	+10,377	Ukraine	+293
Iran	+10,145	Poland	+290
Russia	+9,338	Mexico	+258
+552,540		+9,873	
World	+718,060	World	+13,216
Top ten	77%	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

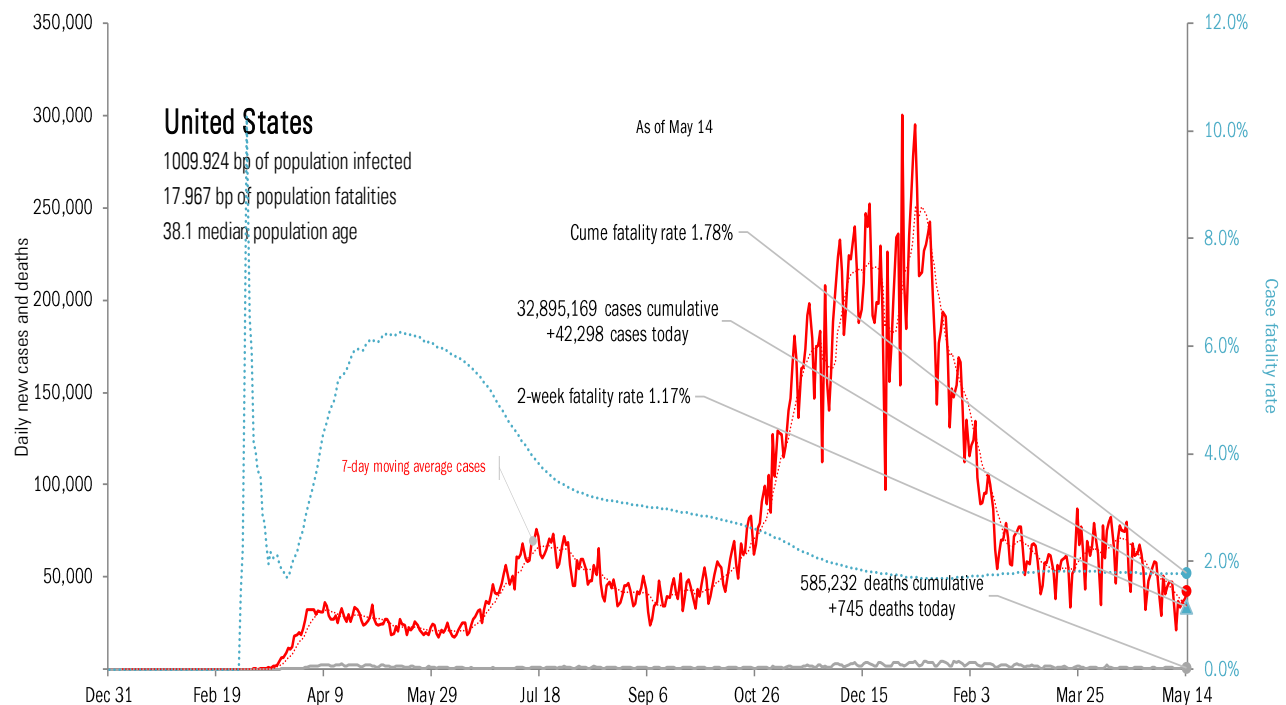
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
AL	+4,918	CH	+87	IL	+49	CA	3,767,052	CA	62,633	TX	242,383	RI	88%	MI	27%						
FL	+3,590	FL	+71	GA	+28	TX	2,927,195	NY	52,903	CA	232,240	MA	84%	ME	19%						
CA	+2,647	TX	+63	CA	+14	FL	2,286,203	TX	50,903	FL	172,361	PA	83%	MD	19%						
TX	+2,429	CA	+60	CO	+14	NY	2,081,823	FL	36,000	NY	130,736	MD	82%	CO	18%						
WA	+2,375	IL	+54	OR	+14	IL	1,363,409	PA	26,693	GA	103,963	MI	81%	MN	16%						
MI	+2,102	NY	+37	CH	+12	PA	1,184,259	NJ	25,932	#VA	0	CT	81%	WA	15%						
NY	+2,074	GA	+32	KY	+10	GA	1,114,329	IL	24,725	CH	169,493	MO	80%	RI	14%						
IL	+1,840	MI	+32	NC	+8	CH	1,089,357	GA	20,482	IL	77,815	FL	79%	PA	14%						
PA	+1,670	VA	+30	NH	+7	NJ	1,009,844	MI	19,678	KY	73,238	GA	79%	IL	14%						
CO	+1,565	PA	+27	WI	+7	NC	989,338	CH	19,528	MI	68,014	DC	79%	ID	14%						
+25,210			+493			+163			17,812,809			339,477			1,270,243						
All states	+42,298		+745		-205	All states	32,895,169		585,232		2,277,129	All states	70%		67%						
Top ten	60%		66%		-80%	Top ten	54%		58%		56%	Median	72%		10%						

Some states not reporting

Five most improved US states

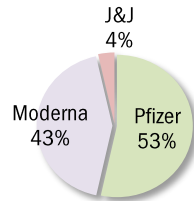
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
PA	-899	MI	-86	LA	-130	RI	+110 bp
FL	-474	CA	-41	AZ	-51	ME	+78 bp
MA	-292	PA	-30	MO	-32	CO	+63 bp
CO	-281	NE	-29	TN	-28	MD	+58 bp
MI	-268	WI	-18	AR	-26	MA	+57 bp



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	354,123,785	0.000 million	US	36.0%	46.4%
Doses administered	277,132,970		UK	28.5%	53.2%
Administered	One dose	% Pop	Immune	% pop	
Total population	159,571,114	48%	123,956,996	37%	France 12.9% 28.6%
Age 12 to 17	2,628,344	10%	1,391,506	6%	Spain 14.9% 31.9%
Age 18 to 64	109,279,259	54%	81,665,279	40%	Germany 10.8% 36.3%
Age 65 and over	47,613,272	87%	40,889,283	75%	Italy 13.7% 30.5%
					Australia 1.9% 0.6%
					Israel 58.9% 62.8%
					Canada 3.6% 43.4%
					Japan 1.2% 3.2%
					Africa 0.4% 1.2%
					India 2.9% 10.1%
					Brazil 7.9% 16.7%



AK
57.9%
43.3%
37.5%

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 72.4 days.
 Daily change data not available today at CDC.
 58.6% of population >18 immunized
 13.8% previously tested positive
 72.4% vs 60% adult herd immunity*

Global data differs from sources, timing

ME
63.4%
58.5%
48.0%

WA	ID	MT	ND	MN	IL	MI	NY	MA		
56.9%	45.5%	51.9%	45.9%	53.5%	55.0%	55.6%	57.1%	64.2%		
51.0%	35.7%	42.6%	40.4%	50.3%	50.0%	45.3%	51.1%	61.5%		
38.9%	30.4%	35.7%	34.9%	40.5%	35.6%	37.7%	41.6%	45.4%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
56.7%	46.6%	45.3%	55.1%	51.7%	46.8%	50.9%	58.6%	59.5%	62.3%	66.6%
49.7%	42.1%	35.1%	46.0%	46.2%	38.8%	42.6%	53.9%	55.4%	58.3%	56.1%
37.8%	33.0%	30.1%	40.5%	39.7%	31.7%	37.1%	38.2%	43.2%	47.0%	44.5%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
58.8%	47.9%	57.8%	51.6%	48.4%	49.2%	51.2%	56.3%	61.5%	60.3%	
52.4%	42.2%	49.7%	45.5%	39.5%	43.1%	37.6%	50.7%	52.5%	50.1%	
37.1%	29.0%	40.1%	39.1%	31.8%	35.6%	32.6%	39.5%	41.4%	38.5%	
AZ	NM	KS	AR	TN	NC	SC	DC			
53.8%	54.8%	52.2%	47.9%	44.8%	53.8%	49.8%	71.6%			
43.2%	53.8%	44.3%	37.2%	36.5%	40.9%	38.4%	52.9%			
32.9%	43.5%	36.0%	28.7%	28.8%	33.6%	31.1%	37.6%			
OK	LA	MS	AL	GA						
51.4%	43.3%	45.1%	47.1%	50.5%						
39.8%	33.9%	32.4%	34.4%	37.2%						
32.0%	29.3%	25.8%	27.2%	28.9%						
HI	TX	FL	PR							
61.0%	52.1%	56.0%	60.3%							
60.1%	40.4%	45.1%	44.5%							
42.1%	31.6%	34.6%	30.3%							

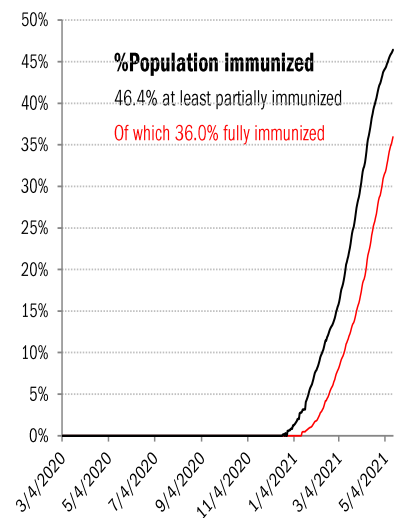
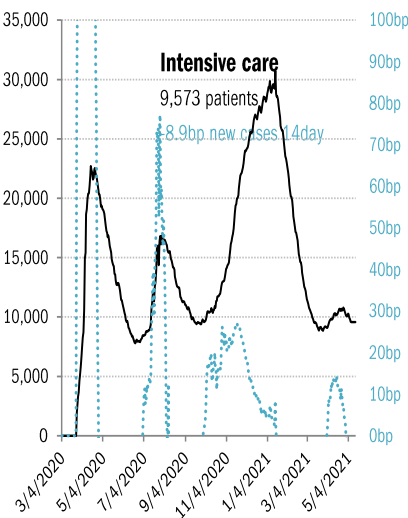
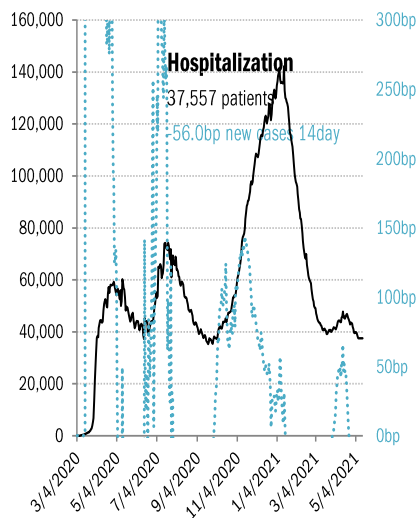
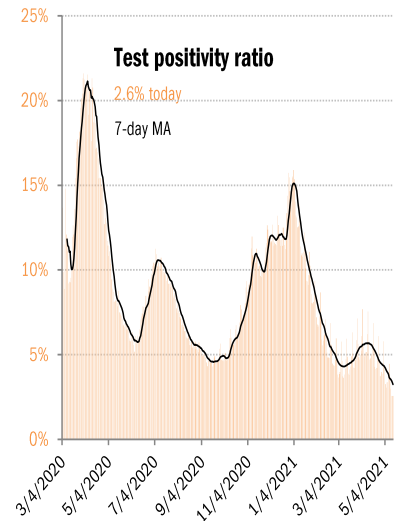
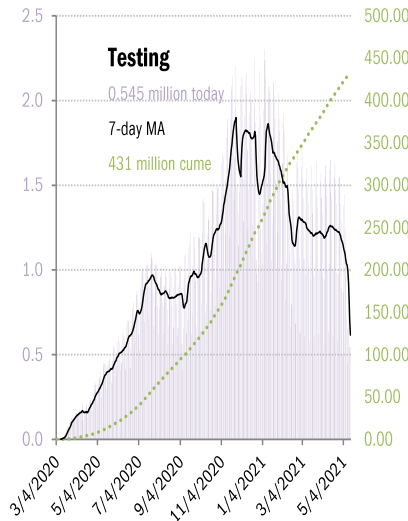
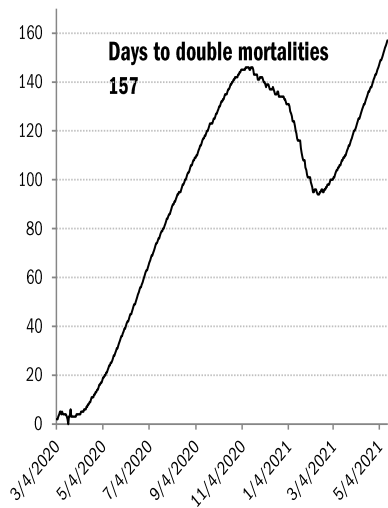
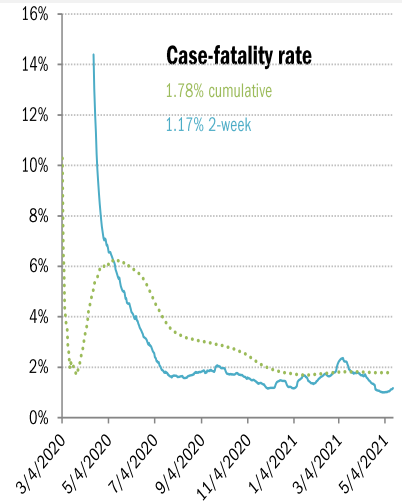
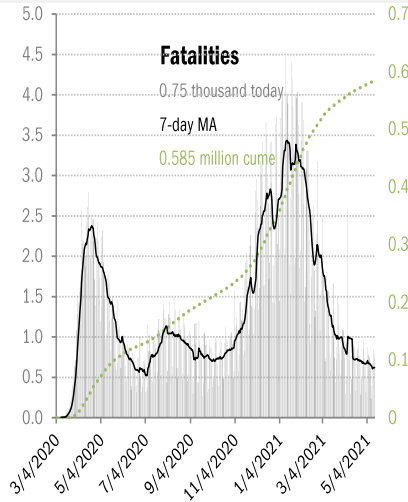
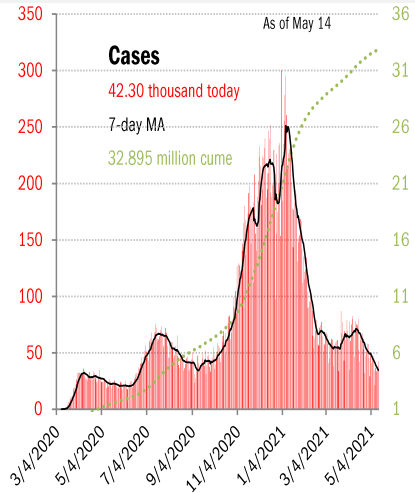
As of May 14

* 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

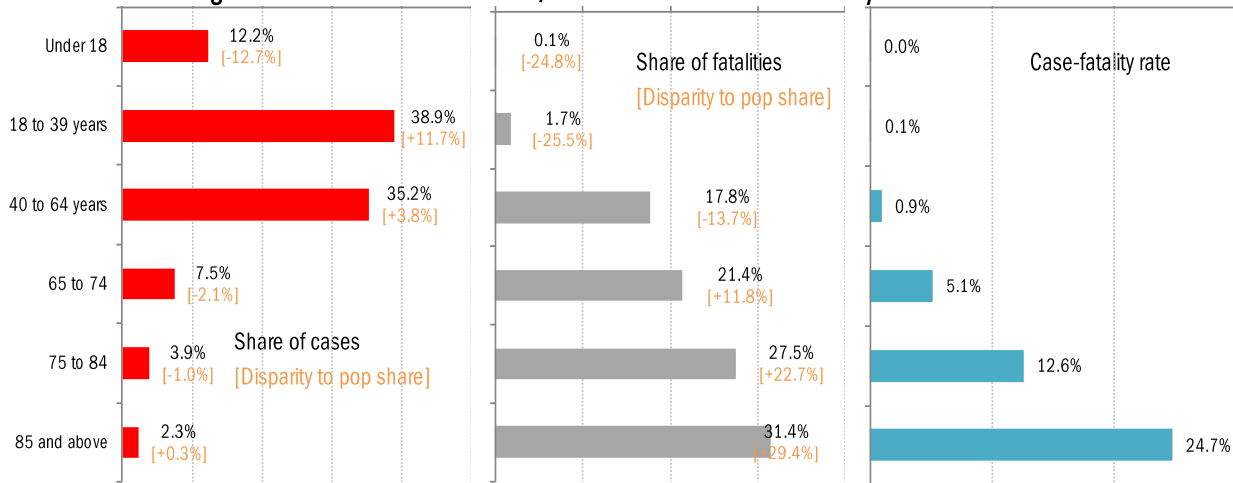
US deep-dive

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

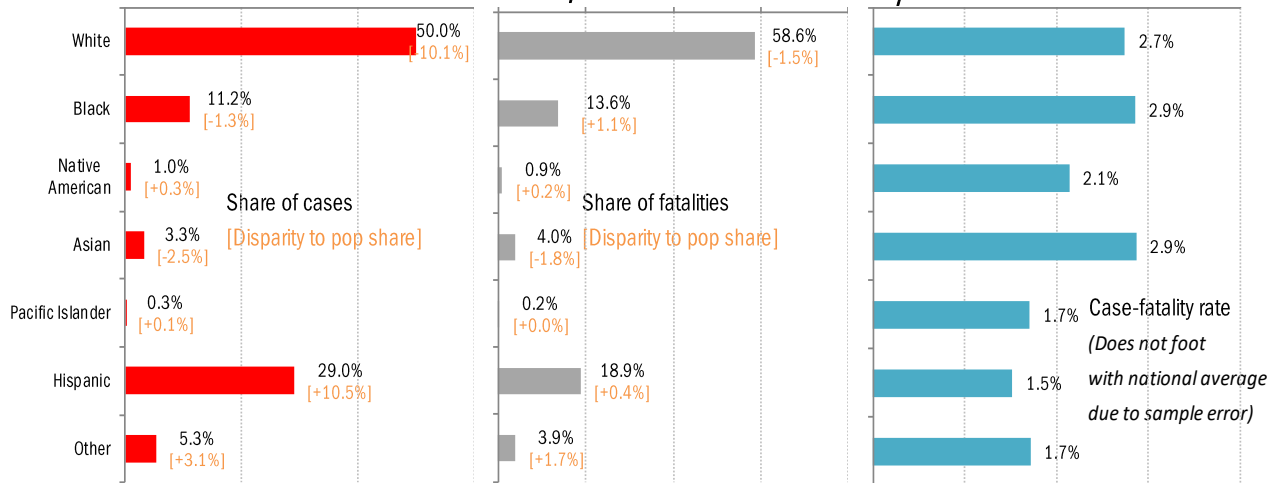


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

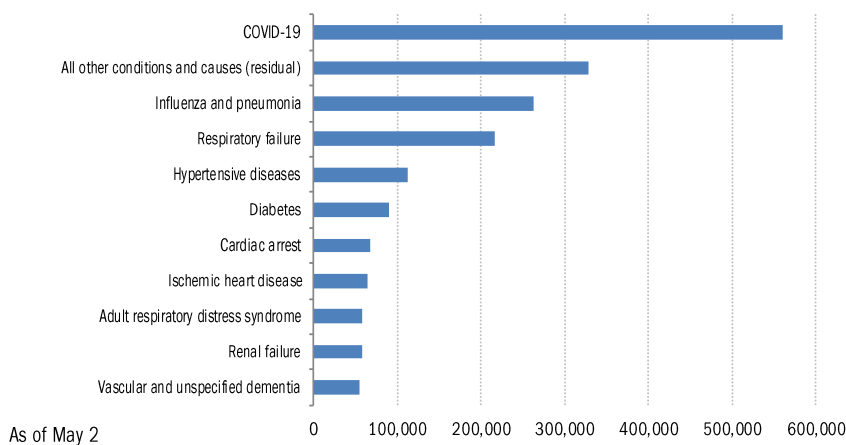


Racial distribution of US cases, fatalities and case-fatality rates



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

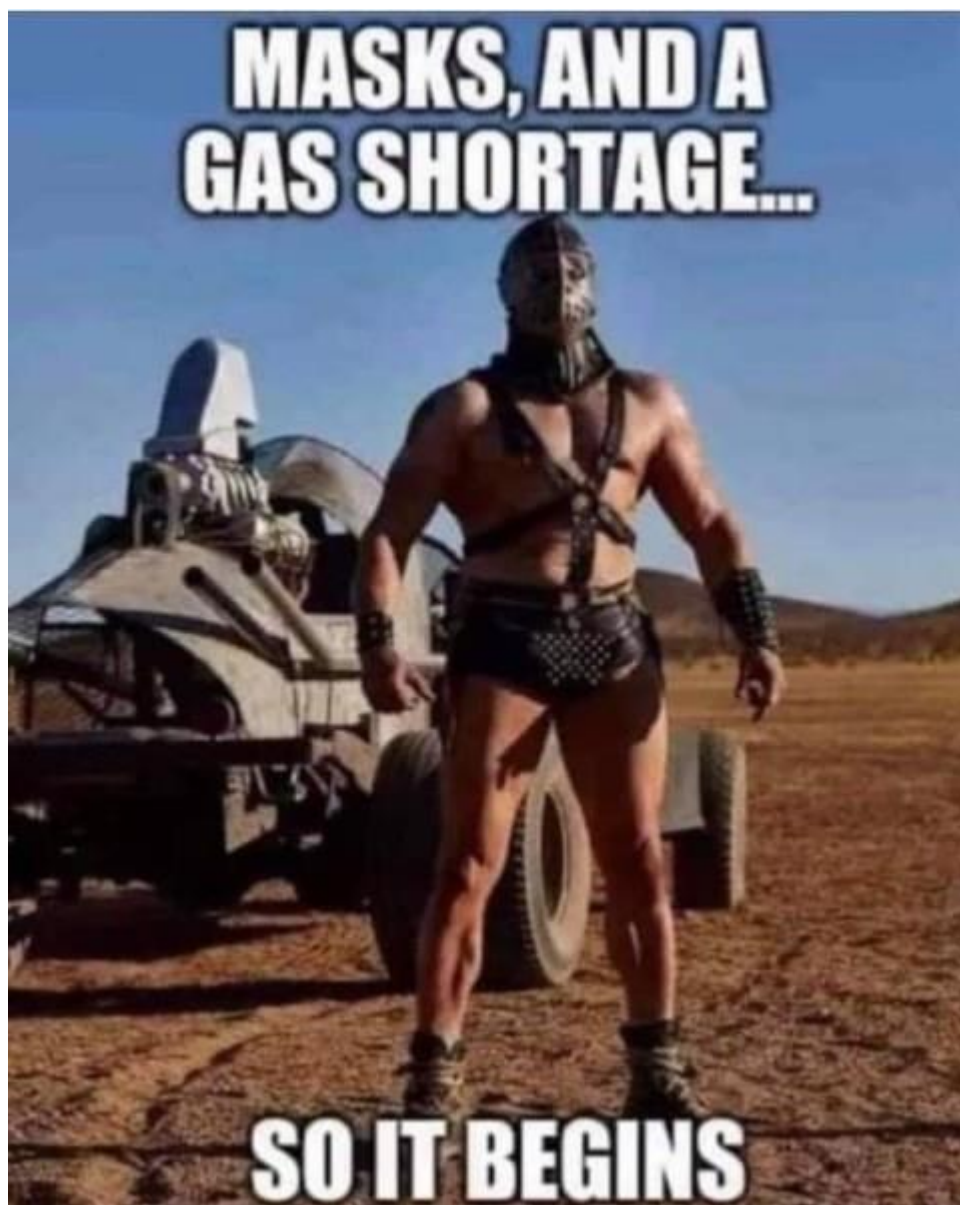
[Federal Mask Retreat Sets Off Confusing Scramble for States and Cities](#)

New York Times
May 14, 2021

[Scientists Demand Answers on Covid Origins](#)

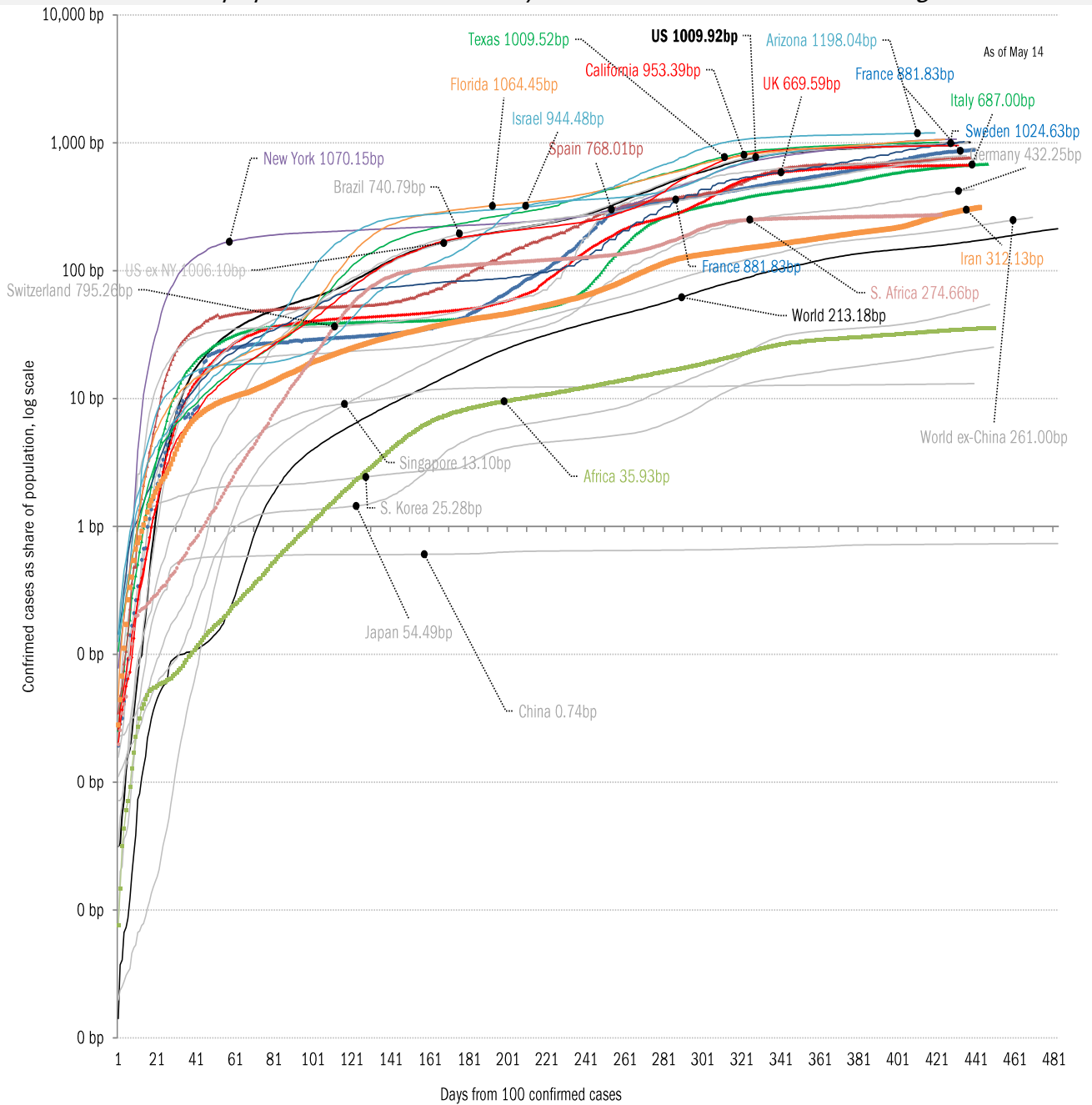
James Freeman
Wall Street Journal
May 14, 2021

Meme of the day



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

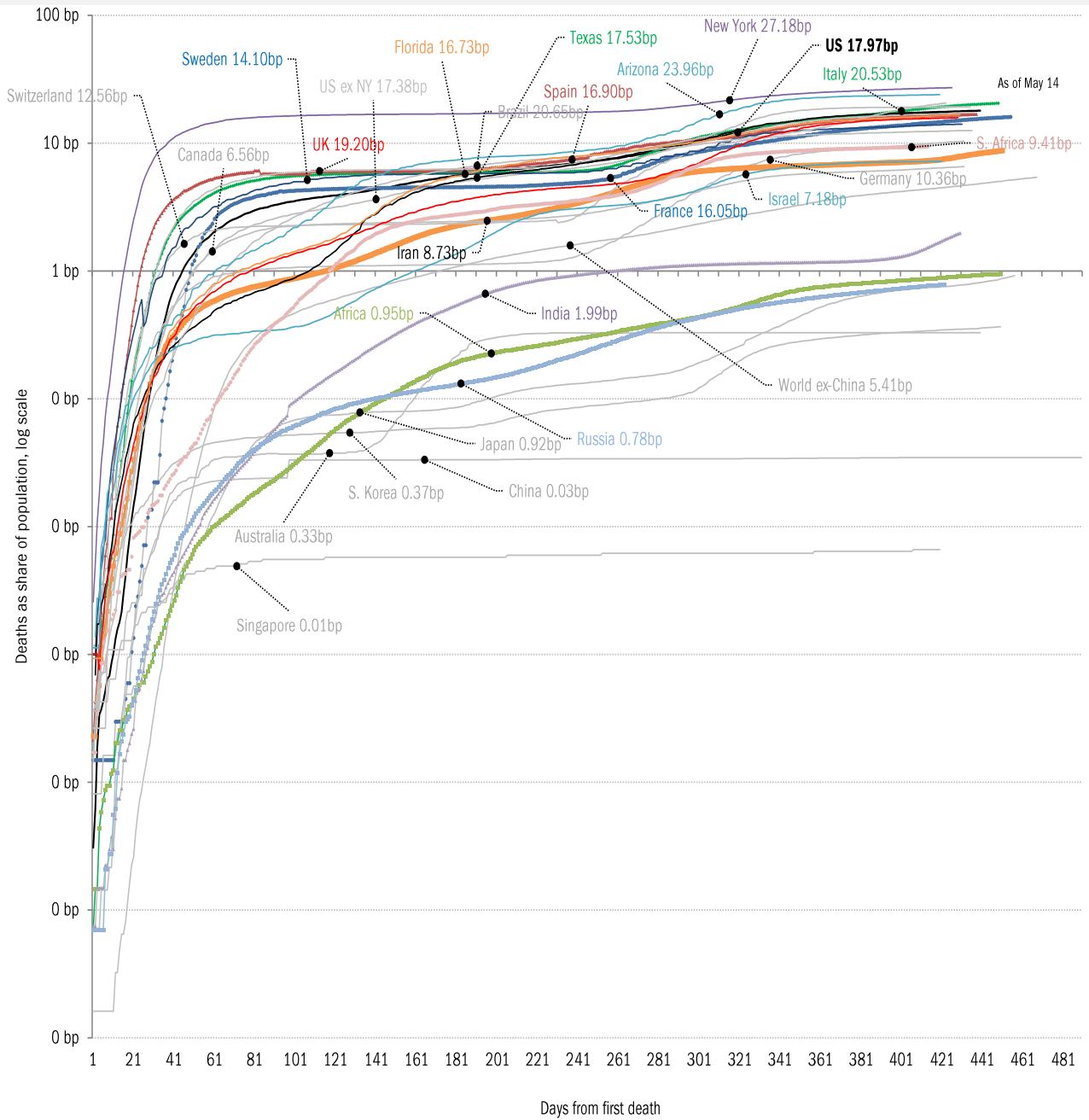
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

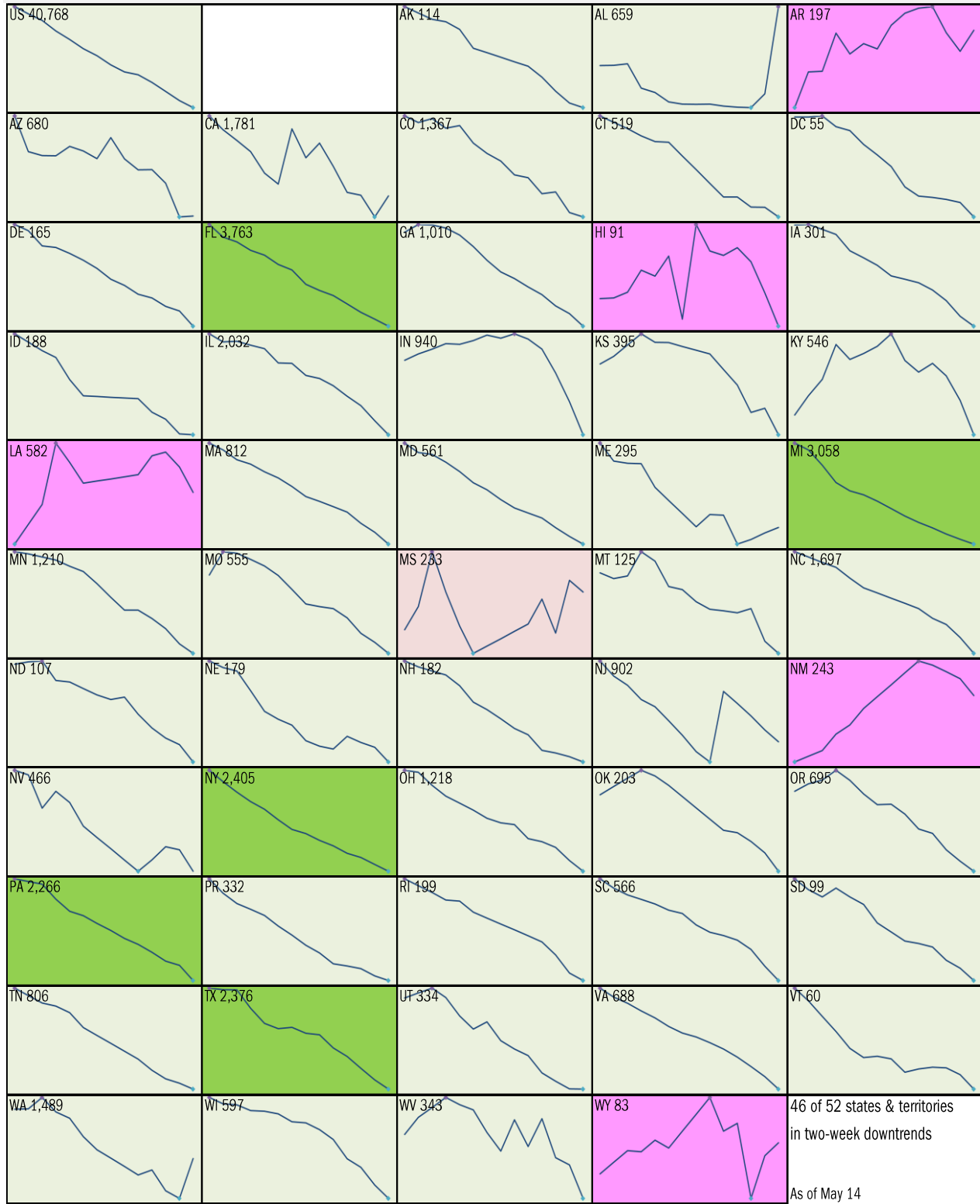


Source: [Johns Hopkins](#), TrendMacro calculations

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

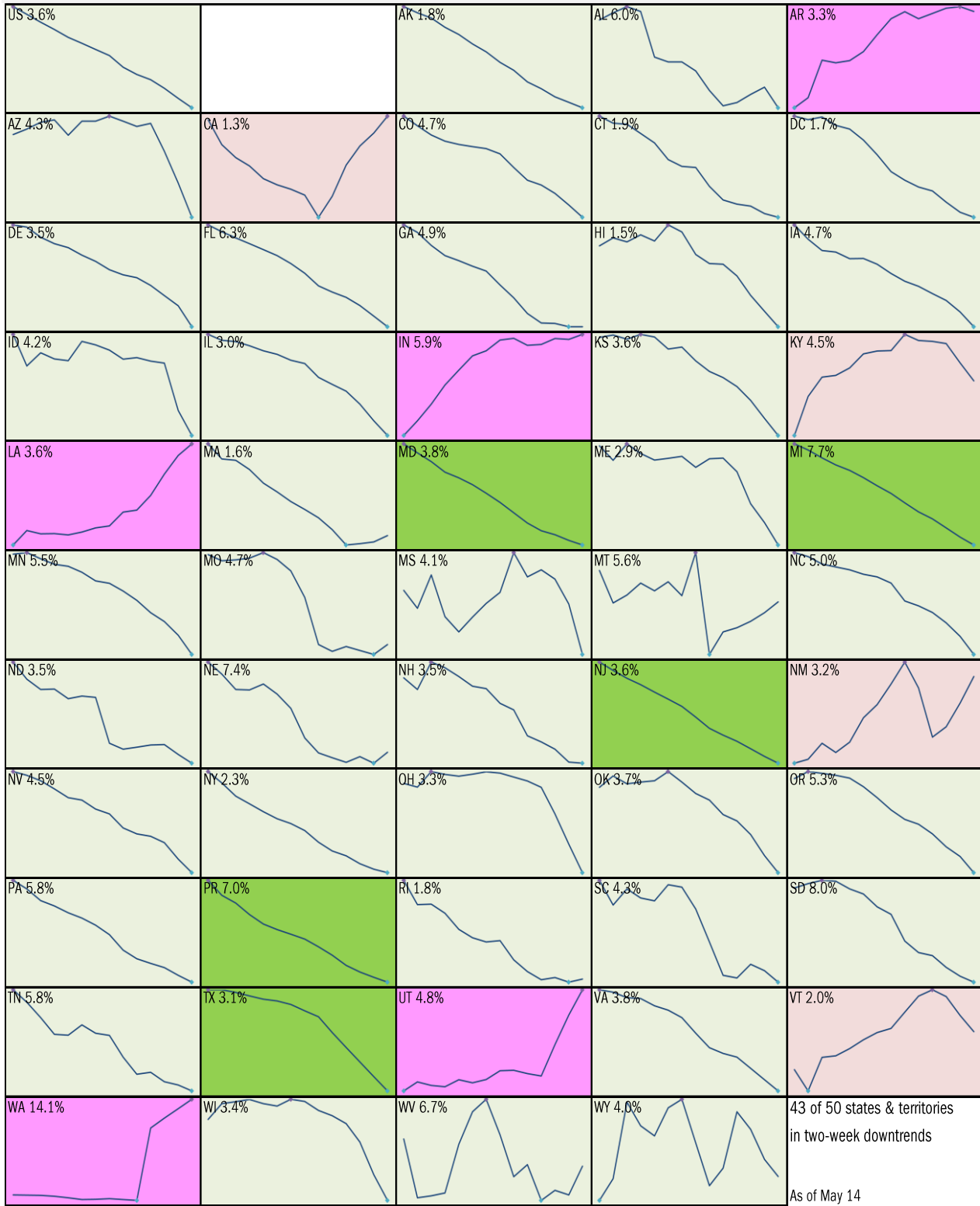


Source: [Johns Hopkins](#), TrendMacro calculations

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

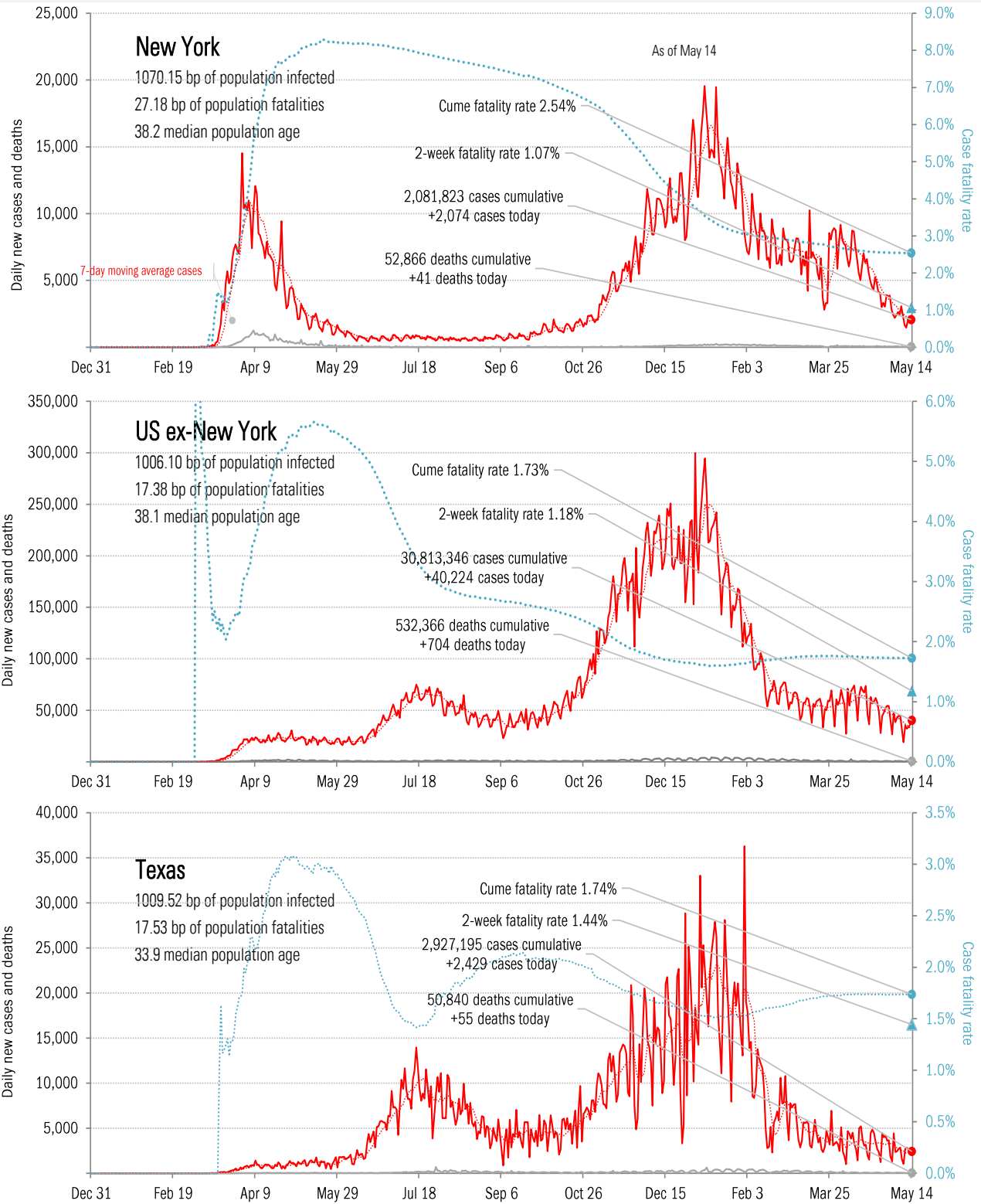
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



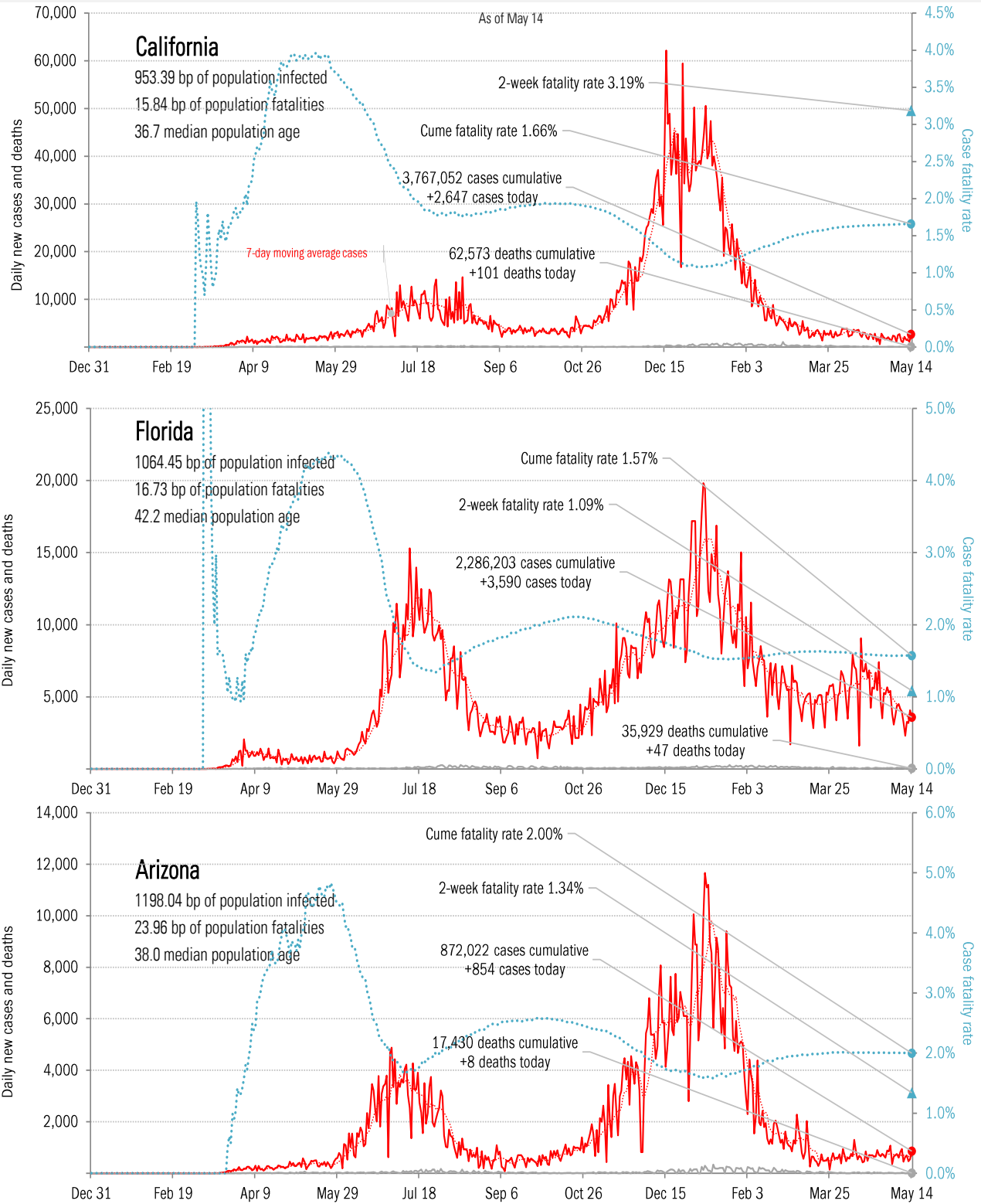
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



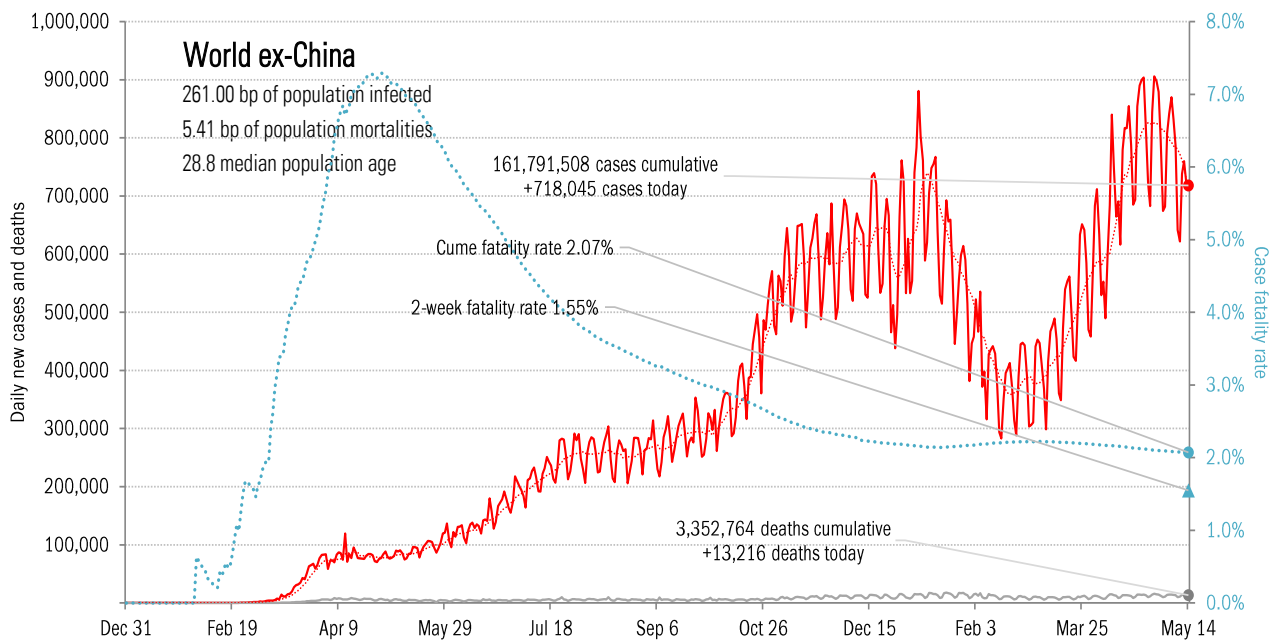
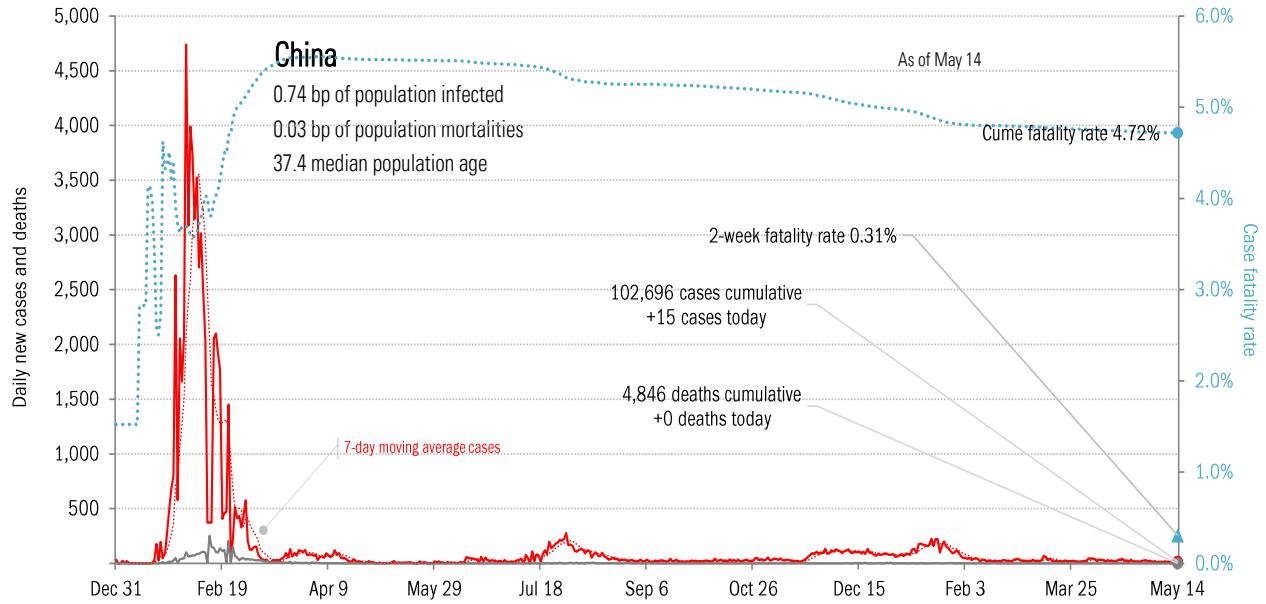
Source: [Johns Hopkins](#), TrendMacro calculations

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



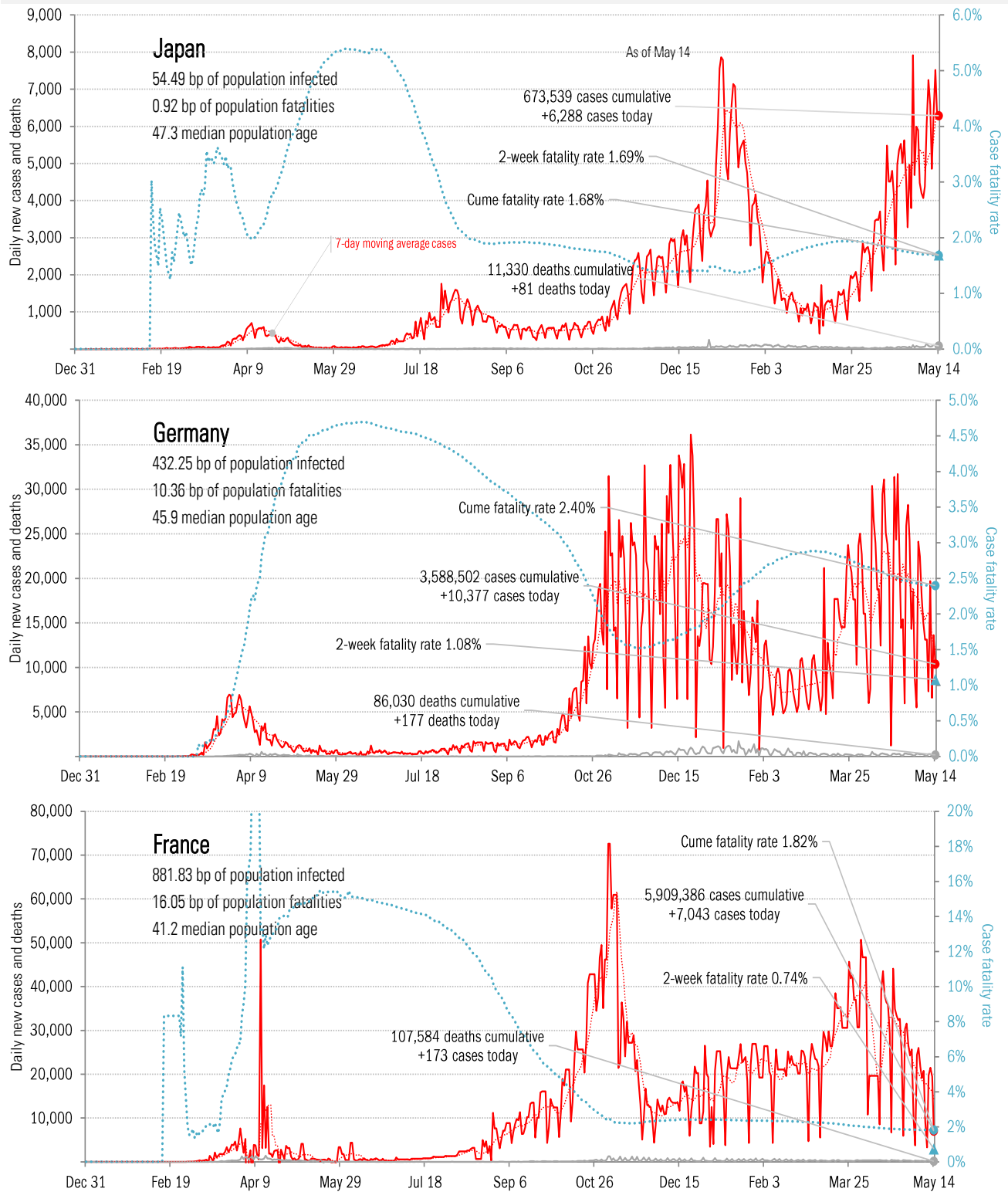
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



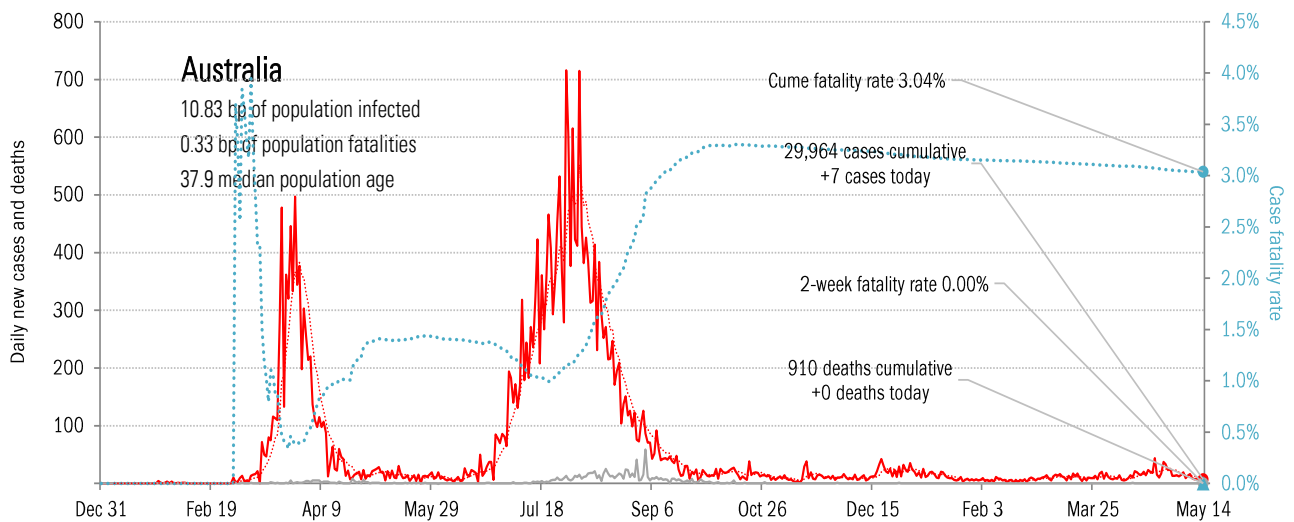
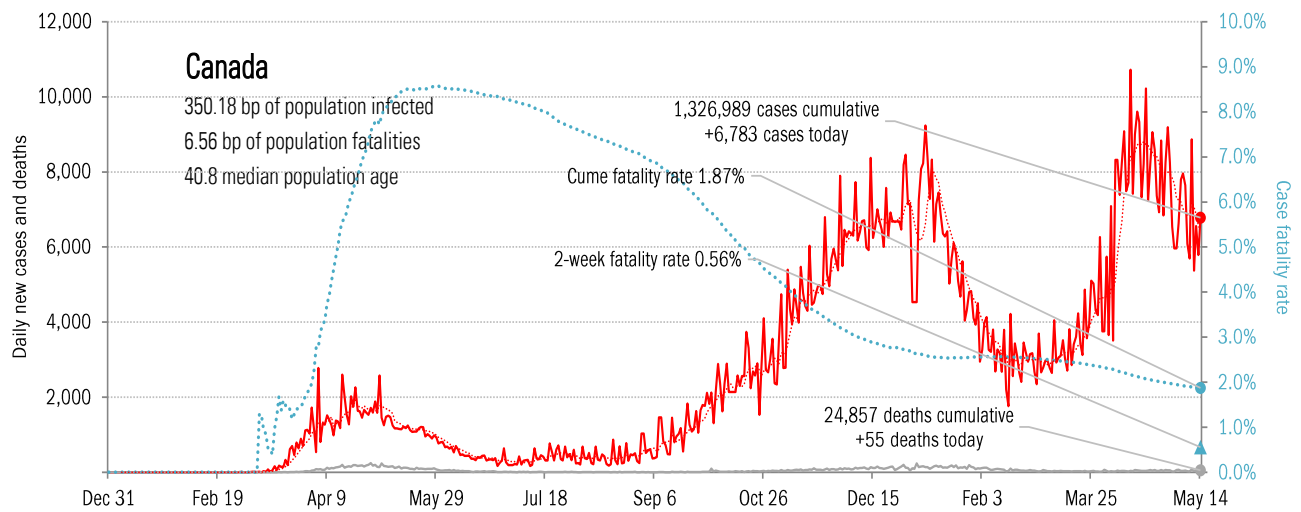
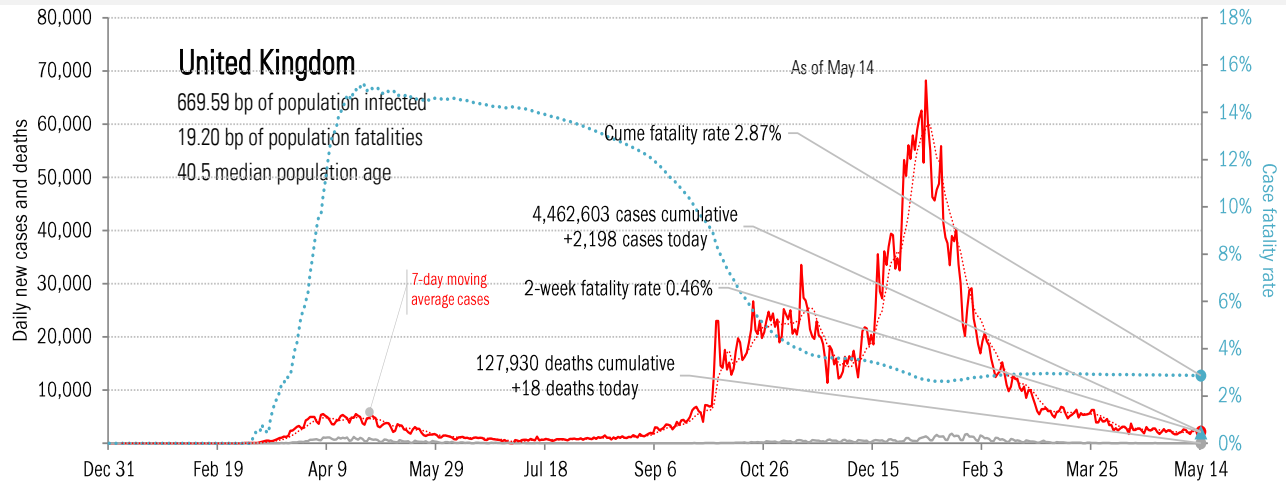
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



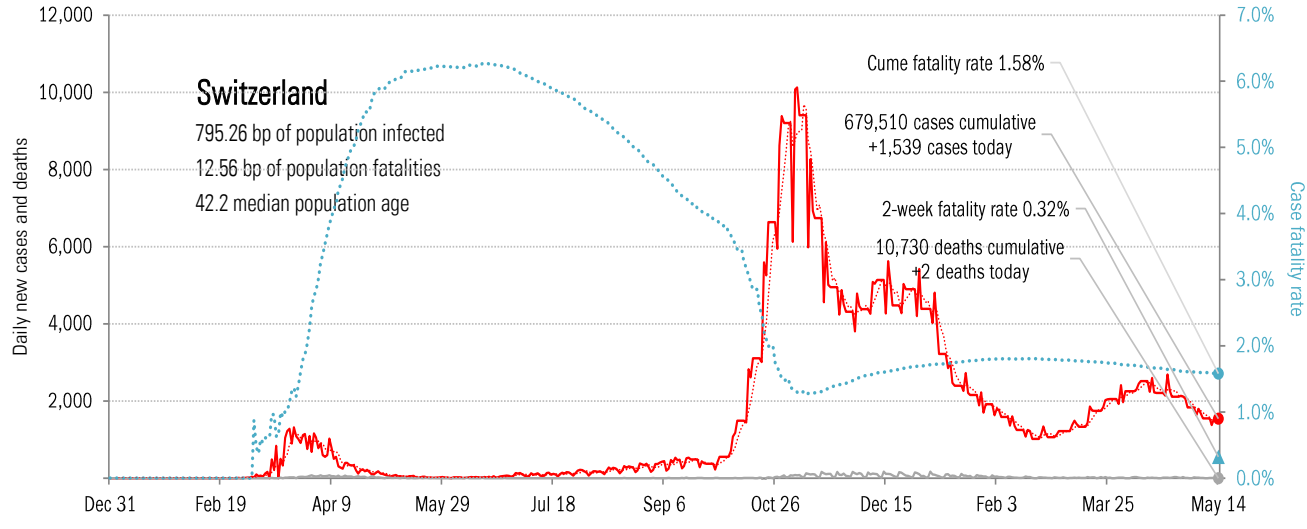
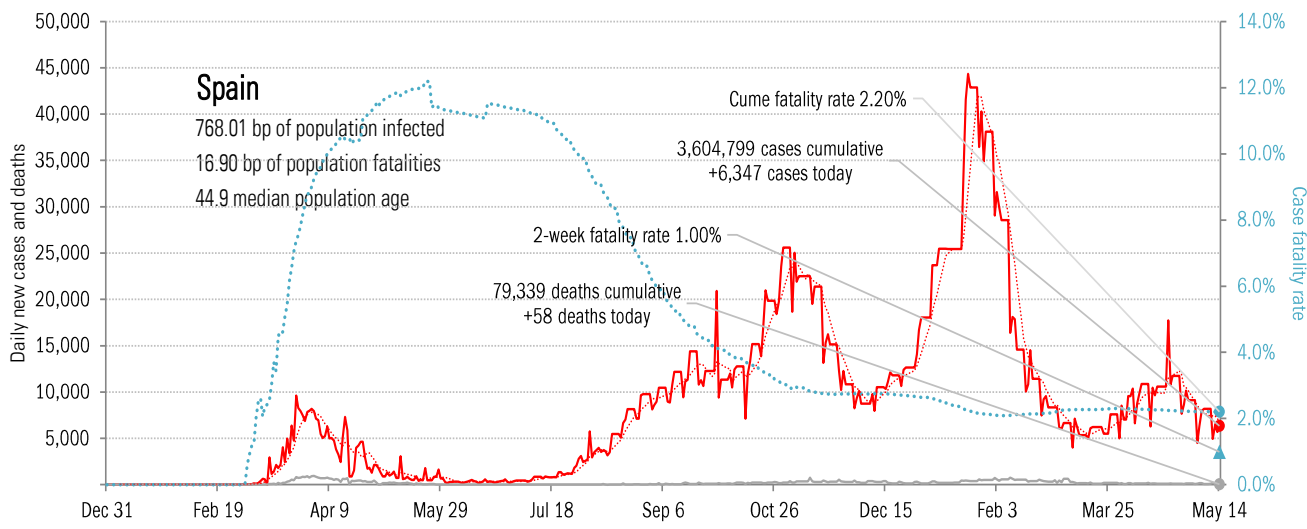
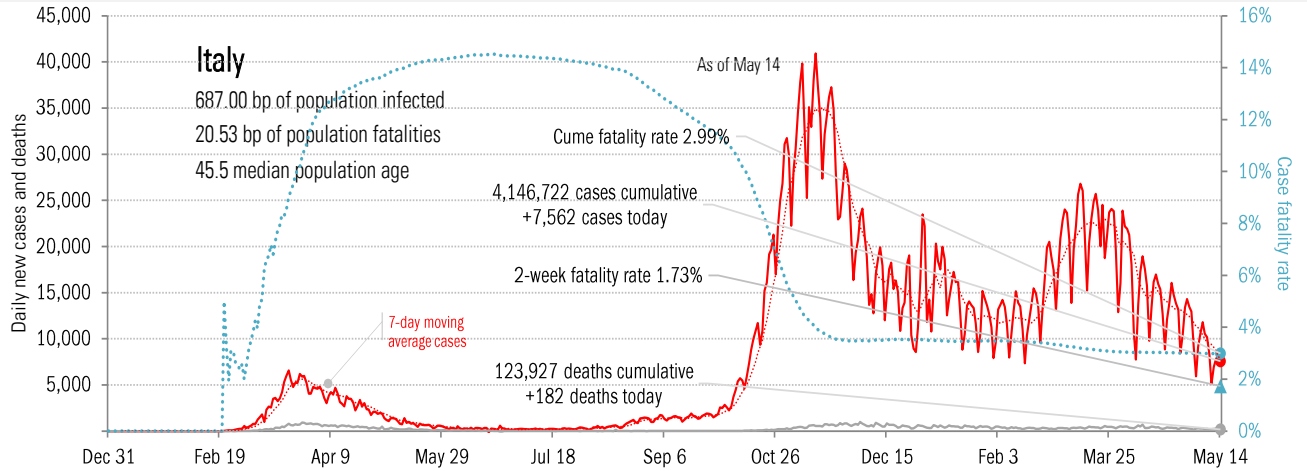
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



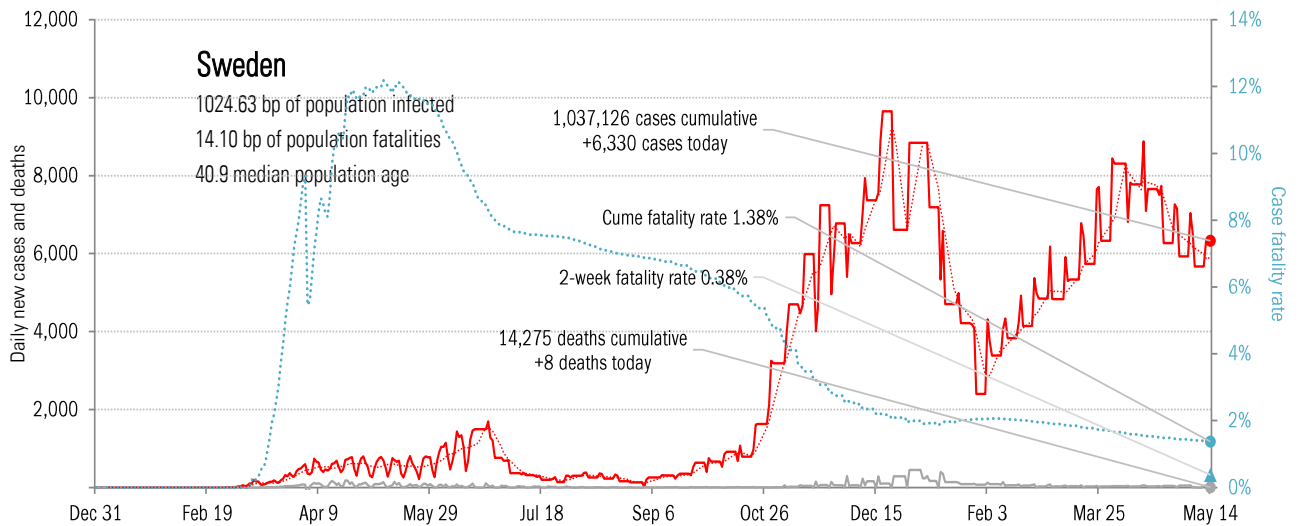
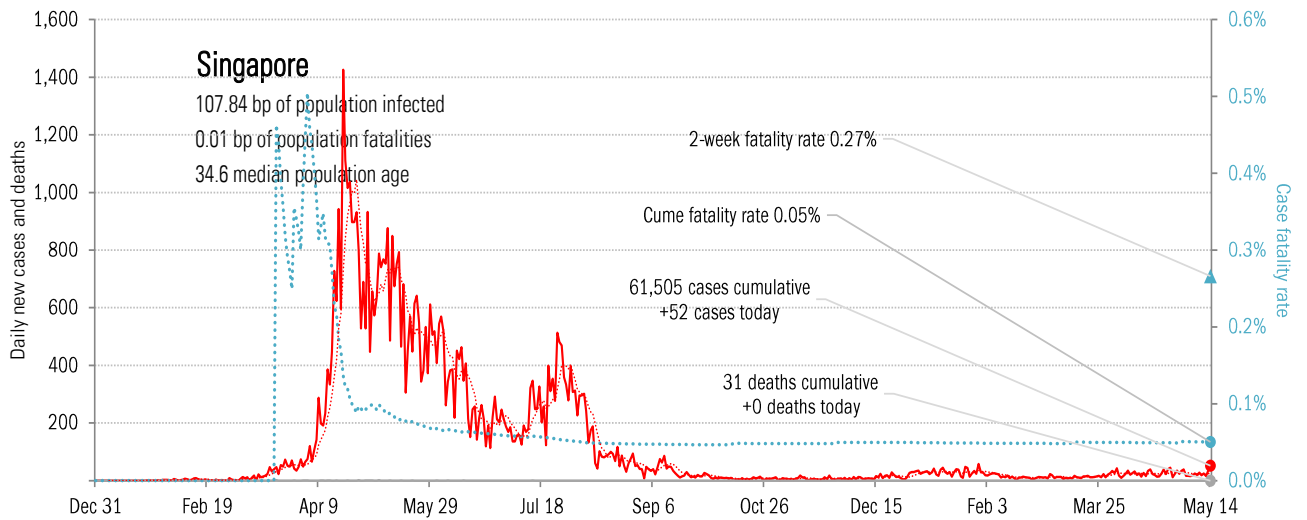
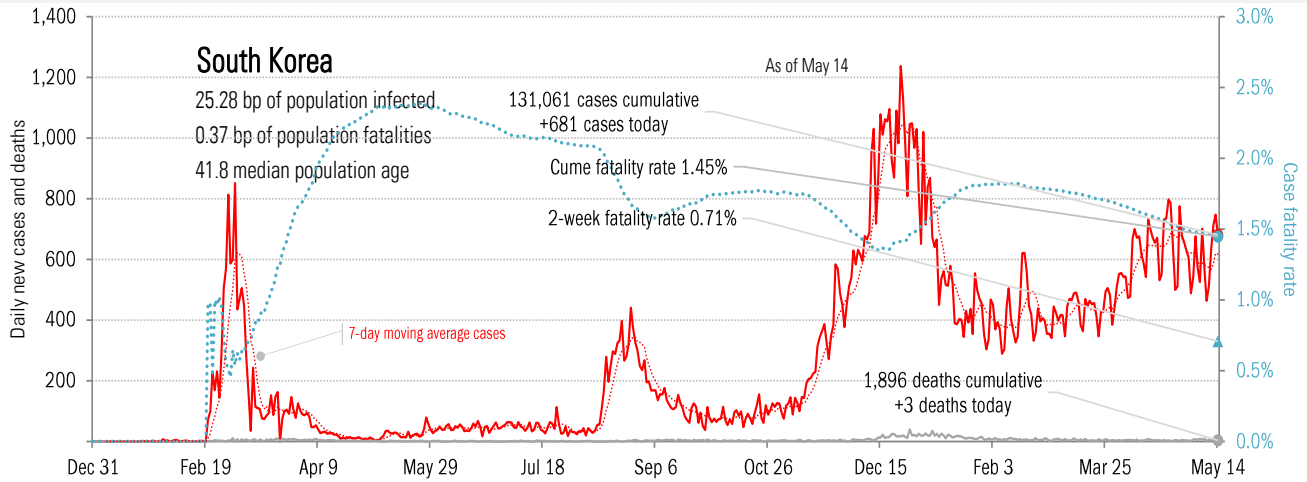
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



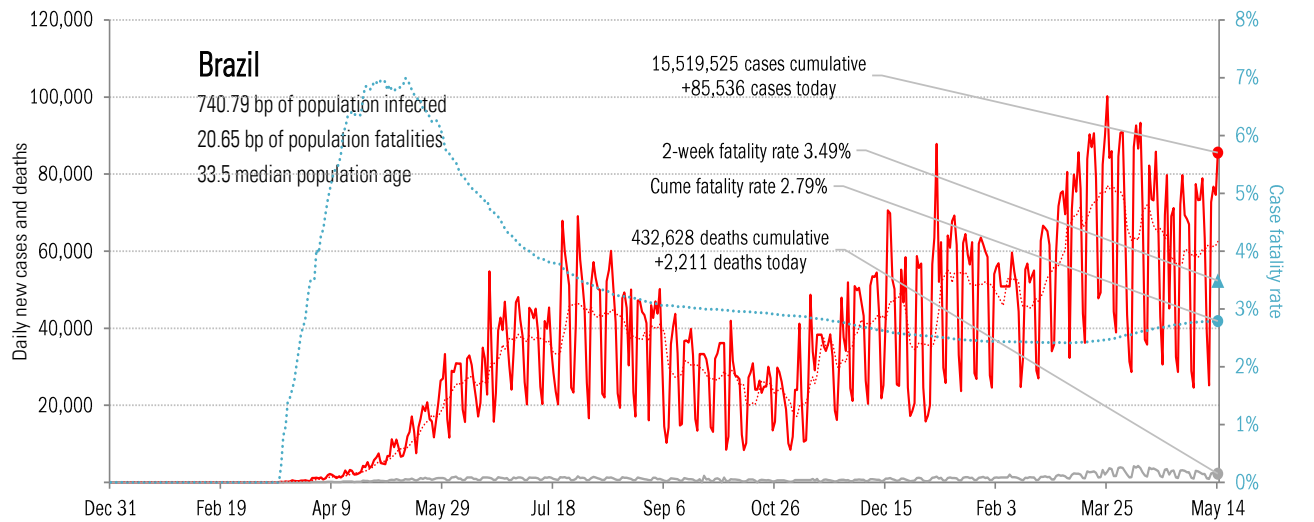
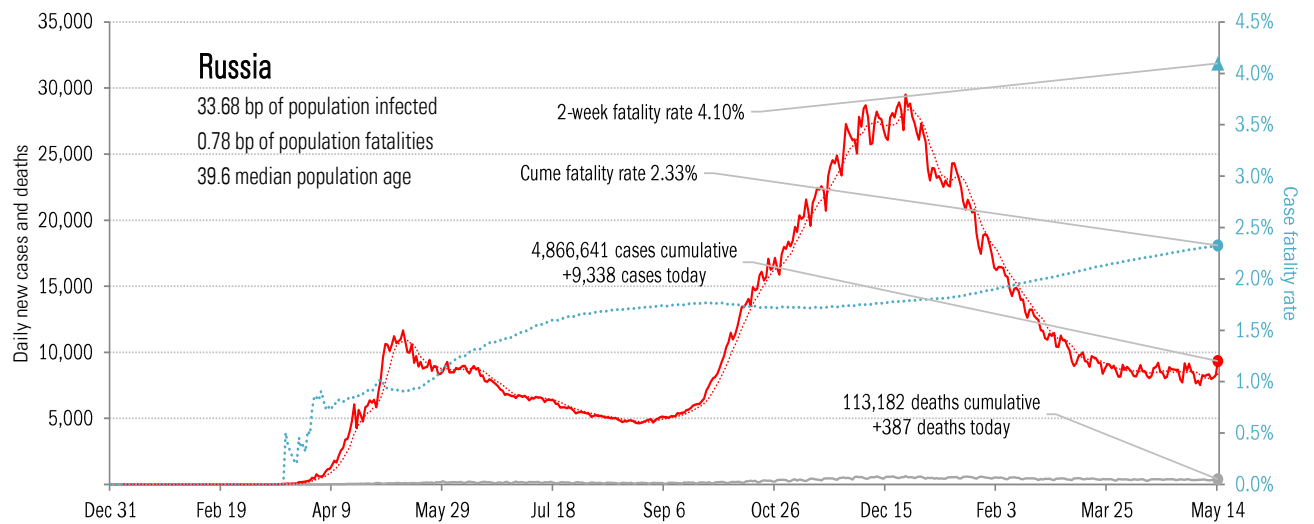
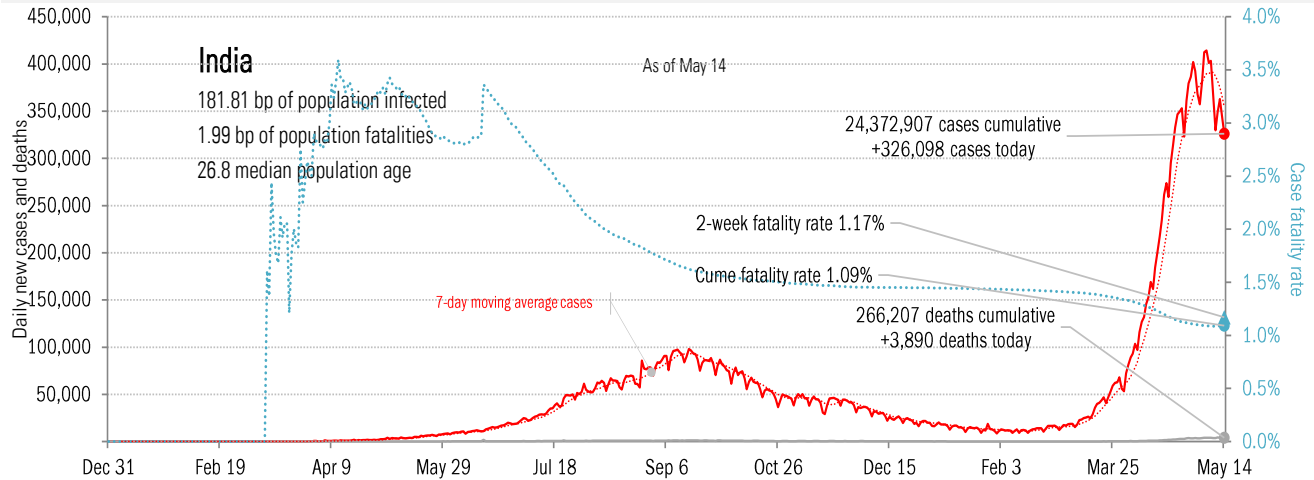
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



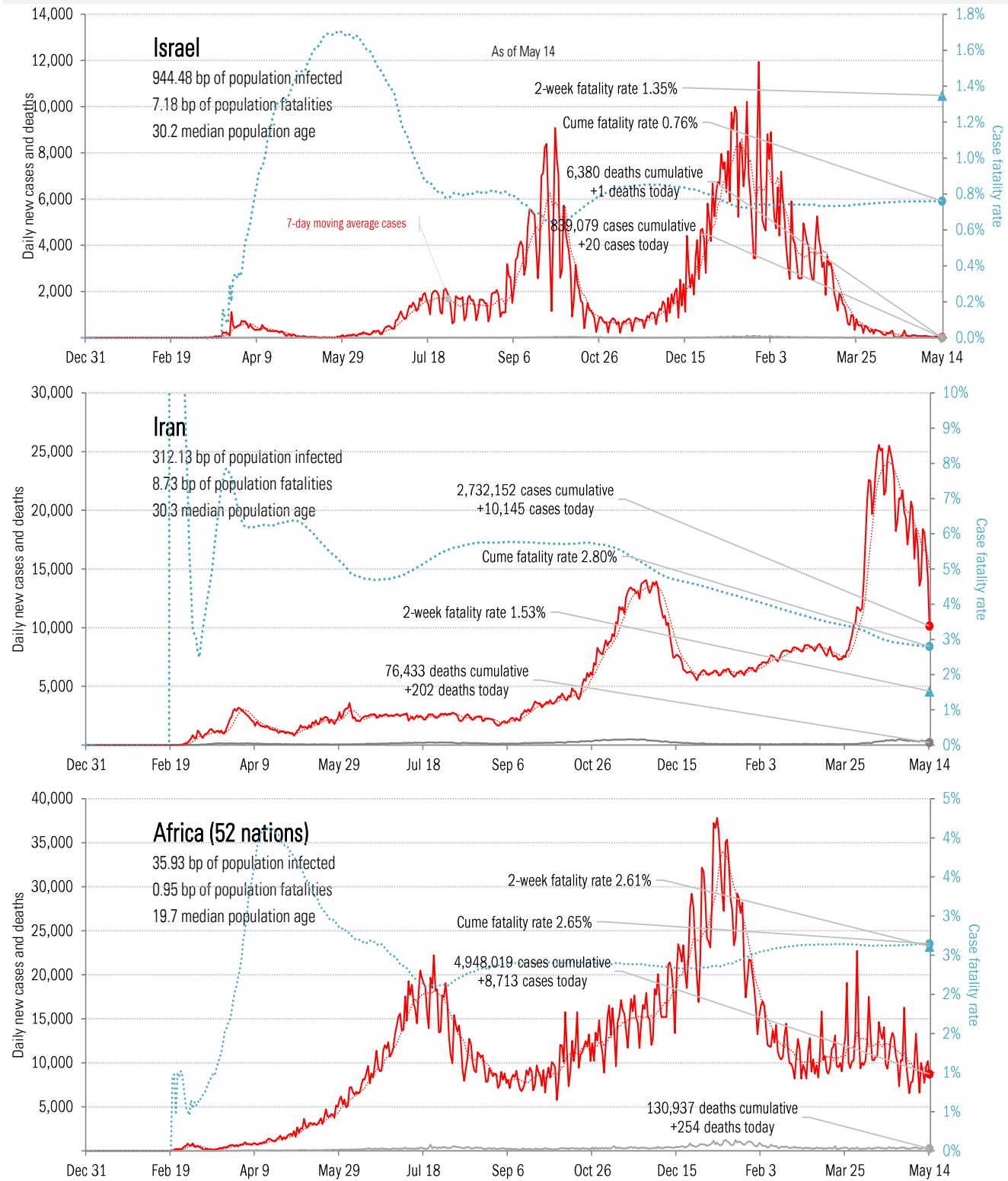
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



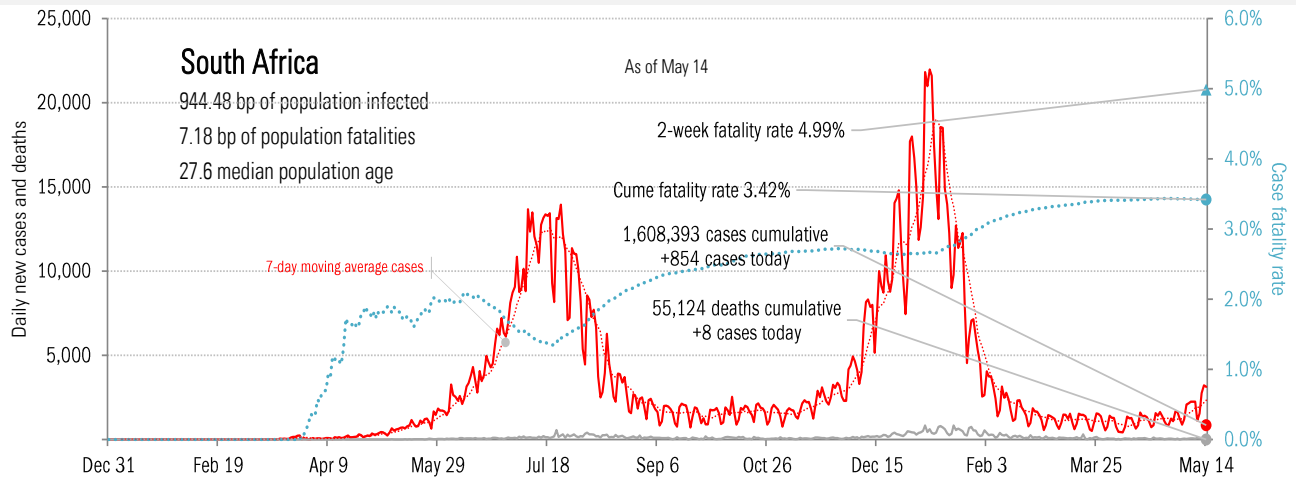
Source: [Johns Hopkins](#), TrendMacro calculations

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