

Data Insights: Covid-2019 Monitor

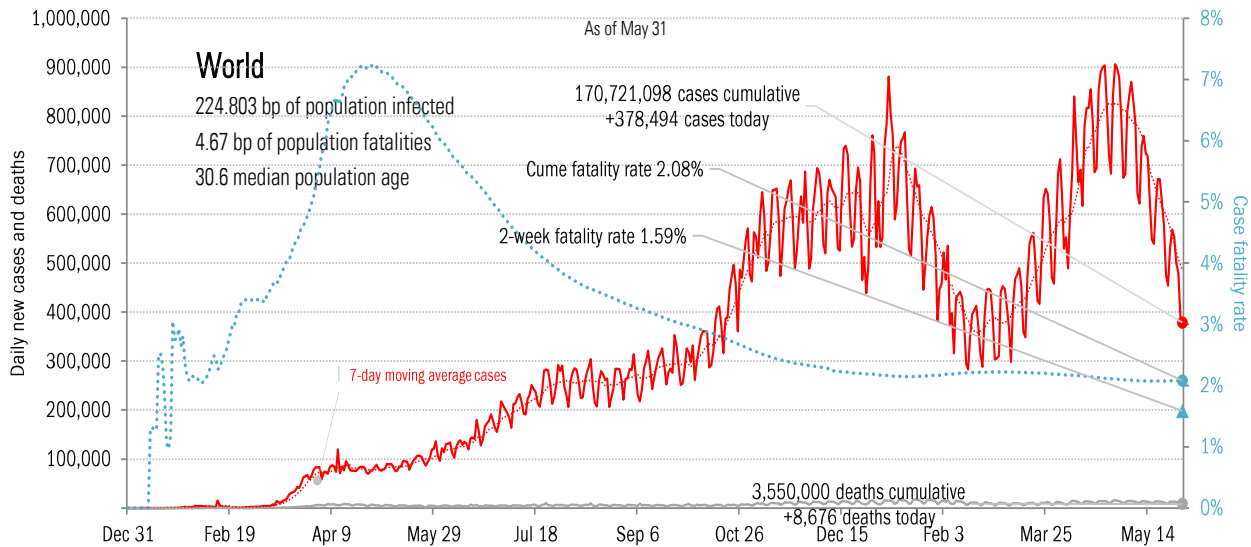
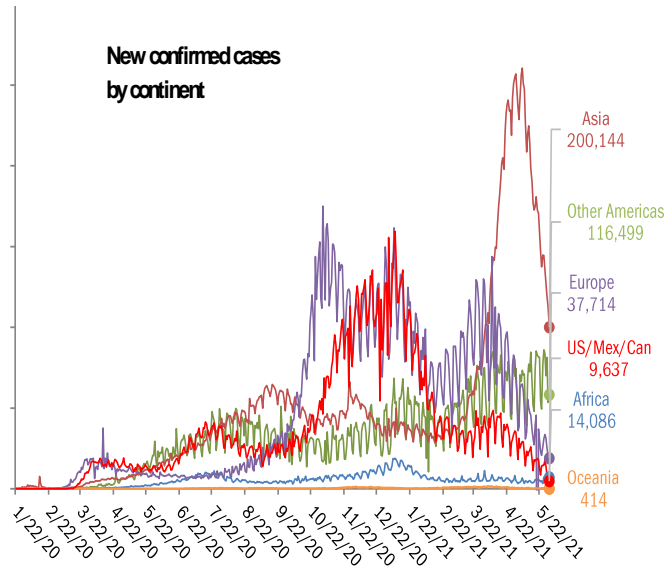
Tuesday, June 1, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+127,510	India	+2,795
Brazil	+30,434	Brazil	+860
Argentina	+28,175	Argentina	+637
Colombia	+23,177	Colombia	+492
Iran	+11,042	Peru	+364
Spain	+9,732	Russia	+334
Russia	+8,341	Iran	+217
Peru	+7,914	Indonesia	+174
Chile	+6,839	Germany	+170
Malaysia	+6,824	South Africa	+143
+259,988		+6,186	
World	+378,494	World	+8,676
Top ten	69%	Top ten	71%

New confirmed cases by continent



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

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The US scorecard

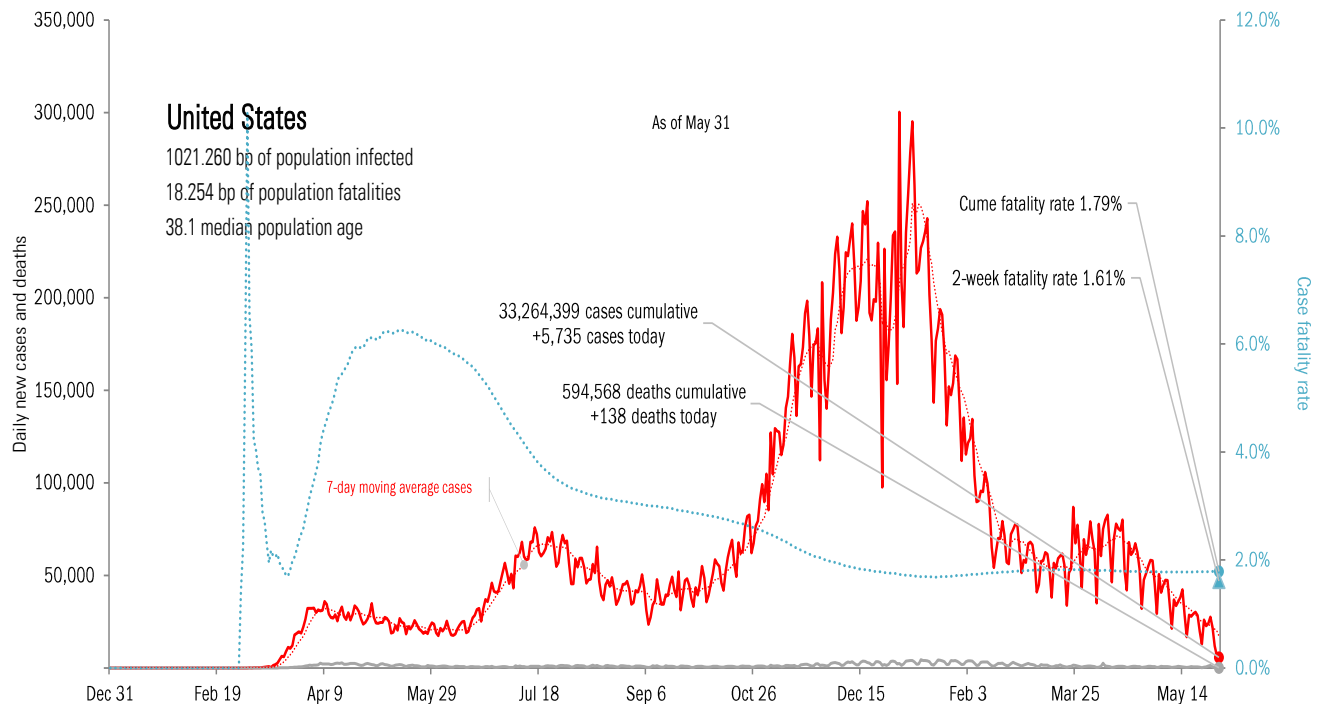
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
AZ	+984		IL	+38		LA	+67		CA	3,789,572		CA	63,249		TX	247,997		R	92%	ME	17%
NY	+529		WI	+26		HI	+65		TX	2,953,409		NY	53,303		CA	235,981		MA	84%	WA	15%
IL	+522		NY	+18		GA	+37		FL	2,320,818		TX	51,508		FL	179,681		MO	81%	MI	14%
WI	+417		VA	+13		MO	+22		NY	2,102,404		FL	36,774		NY	134,248		PA	81%	CO	13%
CA	+345		MD	+7		FL	+12		IL	1,382,101		PA	27,201		GA	106,566		MD	80%	WV	13%
PA	+307		MS	+6		SC	+9		PA	1,203,685		NJ	26,212		PA	89,851		GA	79%	ID	13%
MS	+306		NJ	+5		MS	+8		GA	1,123,841		IL	25,223		CH	85,751		MI	79%	MO	12%
CO	+285		PA	+5		NM	+5		CH	1,101,934		GA	20,837		IL	80,728		SC	79%	WY	11%
GA	+237		FR	+4		MT	+4		NJ	1,016,332		MI	20,376		KY	75,247		DC	79%	NM	11%
CR	+215		SC	+4		AR	+3		NC	1,001,154		CH	19,861		MI	71,646		CT	78%	MS	11%
+4,147			+126			+232			17,995,250			344,544			1,307,696						
All states	+5,735		+138			-219			All states	33,264,399		594,568			2,328,539			All states	70%	67%	
Top ten	72%		91%			-106%			Top ten	54%		58%			56%			Median	71%	8%	

Some states not reporting

Five most improved US states

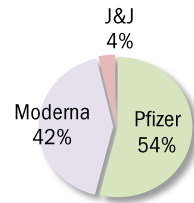
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CH	-377	TX	-11	IN	-85	VT	+73 bp
IN	-358	CA	-9	IL	-79	MP	+55 bp
NY	-291	MN	-8	CA	-66	CR	+49 bp
MN	-279	IN	-5	TX	-63	MA	+48 bp
TX	-200	CO	-4	OK	-50	FR	+46 bp



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	378,798,785				+0.002 million	US	40.4%	50.2%
Doses administered	304,040,191				+1.241 million	UK	37.6%	58.0%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	16.4%	37.7%
Total population	172,220,626	52%	138,996,245	42%	+0.677 million	Spain	19.7%	38.6%
Age 12 to 17	6,122,542	24%	2,253,690	9%	+0.038 million	Germany	17.4%	43.2%
Age 18 to 64	117,444,597	58%	94,339,460	46%	+0.563 million	Italy	20.0%	38.9%
Age 65 and over	48,577,471	89%	42,394,120	78%	+0.076 million	Australia	2.0%	14.7%
						Israel	59.3%	63.0%
						Canada	5.5%	57.7%
						Japan	2.7%	7.7%
						Africa	0.6%	1.8%
						India	3.1%	12.1%
						Brazil	10.4%	21.4%



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 **141 days** by Oct 19, 2021
 65.4% of population >18 immunized
 14.0% previously tested positive
79.4% vs 60% adult herd immunity*

Global data differs from sources, timing

AK
59.1%
46.1%
39.3%

ME
70.3%
63.1%
54.4%

WI	VT	NH								
53.7%	76.0%	68.1%								
51.0%	70.2%	59.7%								
44.5%	55.4%	48.5%								
WA	ID	MT	ND	MN	IL	MI	NY	MA		
61.7%	47.8%	54.0%	47.5%	58.8%	59.1%	59.4%	61.4%	70.7%		
56.5%	37.6%	45.2%	42.2%	54.3%	54.8%	48.7%	55.7%	66.2%		
46.4%	32.7%	38.3%	36.6%	46.0%	40.0%	42.1%	46.7%	53.4%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
66.9%	50.0%	46.6%	56.2%	55.7%	50.9%	53.9%	62.9%	65.1%	67.3%	71.8%
54.8%	45.5%	37.0%	48.2%	49.2%	41.8%	45.8%	58.3%	60.2%	63.1%	60.8%
45.1%	36.8%	31.8%	42.4%	43.7%	35.4%	40.2%	43.5%	48.7%	53.4%	51.5%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
63.3%	51.0%	61.7%	54.6%	50.7%	51.3%	54.3%	60.5%	69.2%	66.2%	
56.7%	44.9%	54.1%	48.2%	42.2%	46.4%	40.6%	55.2%	57.2%	54.6%	
43.0%	32.0%	45.2%	42.1%	34.3%	38.4%	34.0%	45.0%	47.7%	43.2%	
AZ	NM	KS	AR	TN	NC	SC	DC			
56.6%	57.5%	54.1%	48.8%	47.2%	57.2%	52.4%	76.8%			
46.2%	57.8%	46.8%	39.5%	39.1%	43.4%	40.8%	57.0%			
35.9%	47.8%	38.4%	31.2%	31.7%	36.1%	33.7%	46.2%			
OK	LA	MS	AL	GA						
52.5%	44.5%	46.4%	49.5%	53.4%						
41.5%	35.7%	34.0%	36.0%	39.0%						
33.7%	31.2%	27.1%	29.2%	31.1%						
HI	TX	FL	PR							
67.8%	55.6%	59.0%	63.4%							
66.5%	44.2%	49.0%	50.8%							
47.6%	35.4%	38.9%	37.1%							

As of May 31

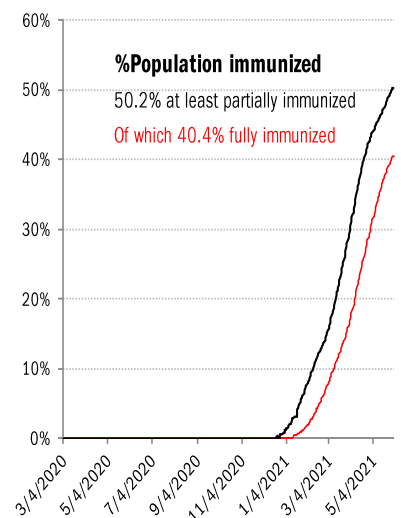
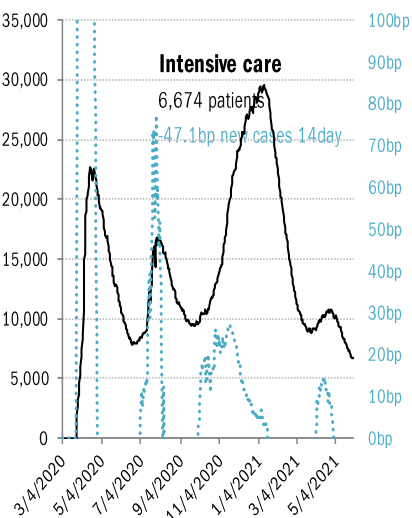
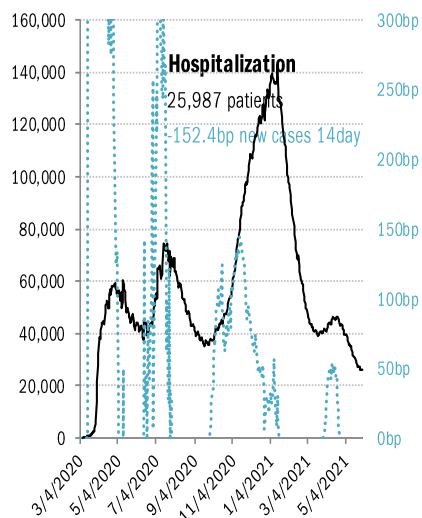
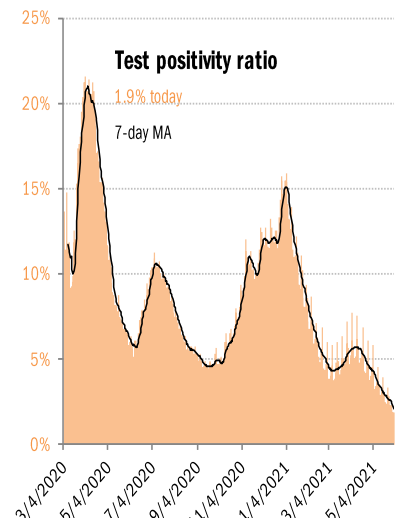
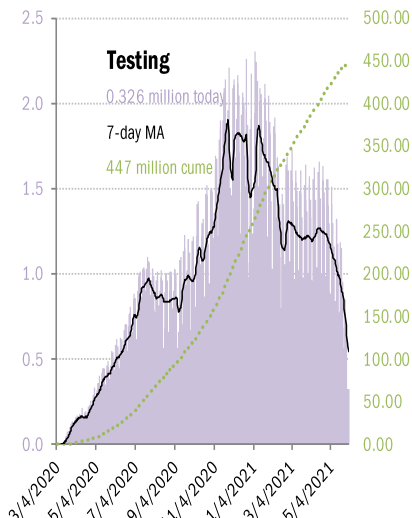
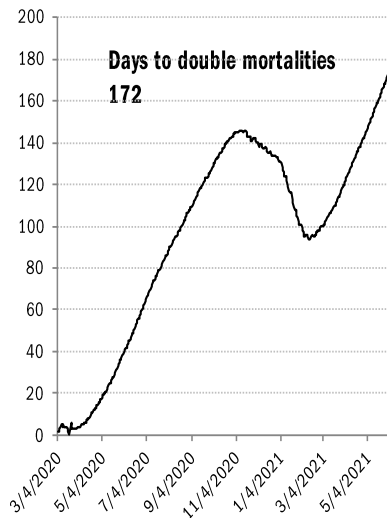
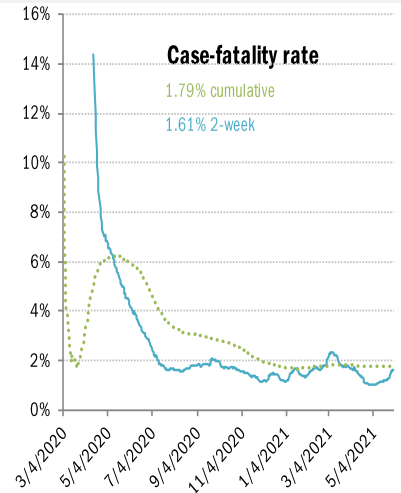
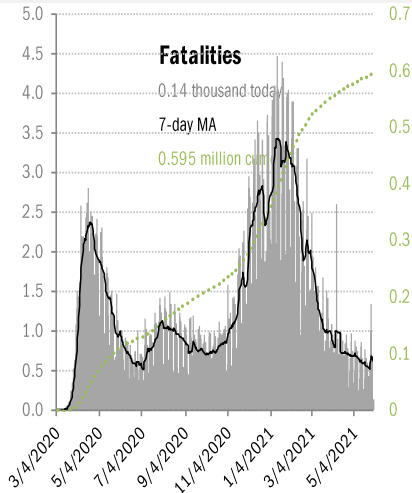
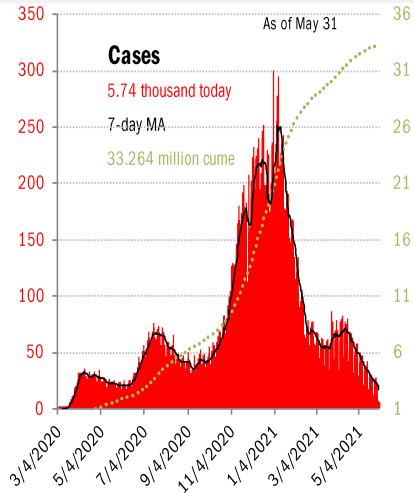
* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.

** 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

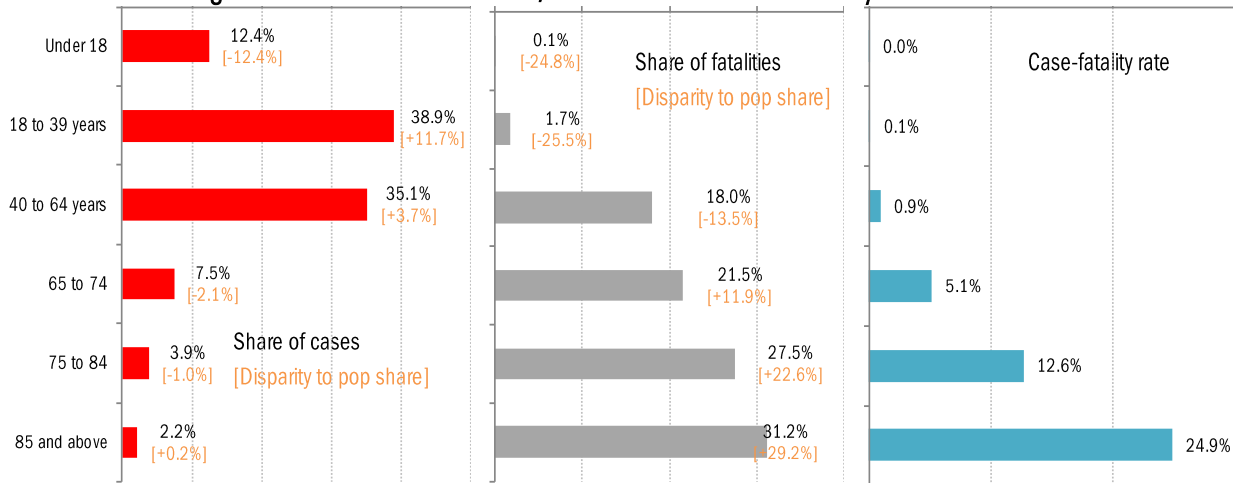
US deep-dive

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

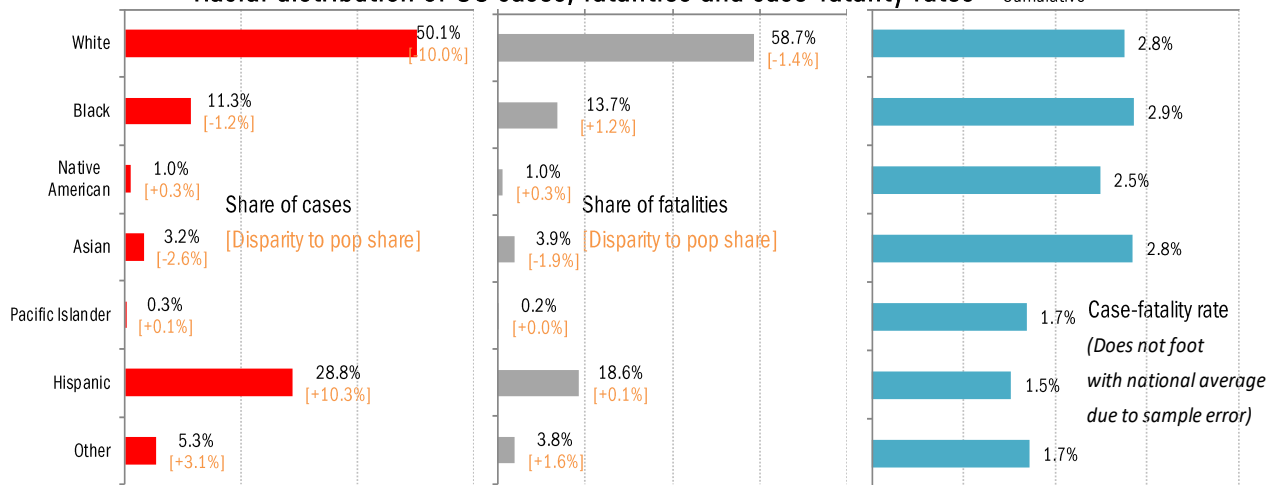


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

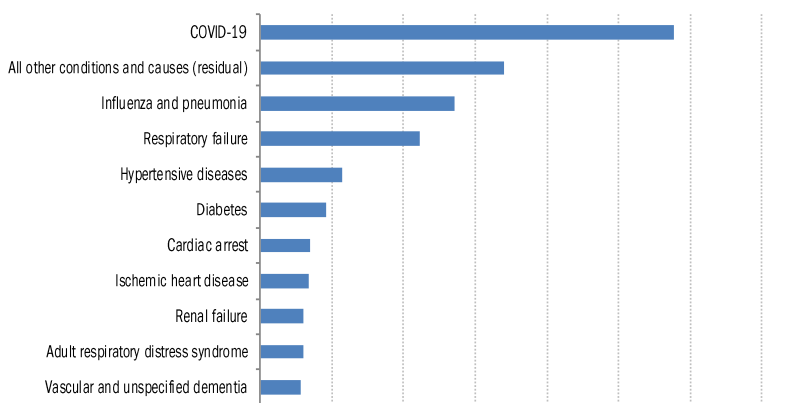


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of May 23

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.

Recommended reading

[Stopping Racial Bias in Covid Relief](#)

Wall Street Journal

May 30, 2021

[Brazil's Experiment to Vaccinate Town With Chinese CoronaVac Reduced Covid-19 Deaths by 95%](#)

Samantha Pearson

Wall Street Journal

May 31, 2021

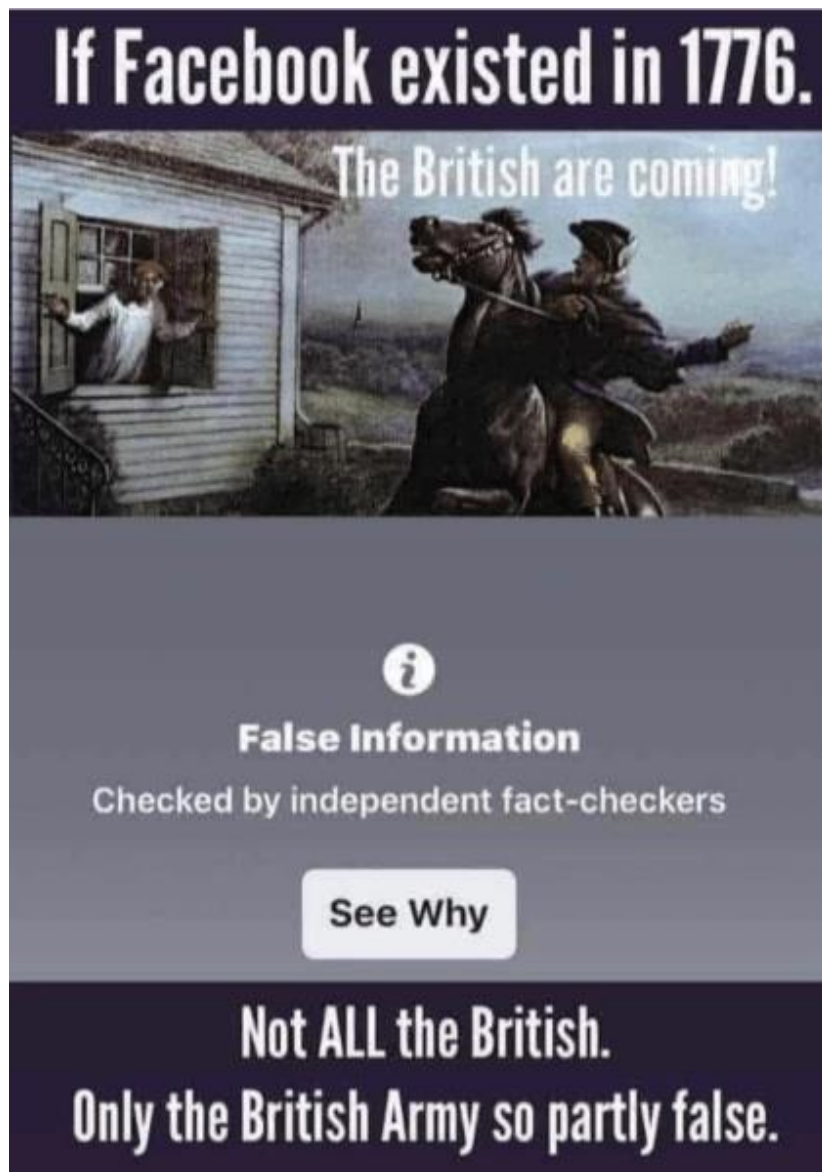
[The Pandemic in the U.S. Has Vastly Improved. For These Families, the Worst Has Just Begun.](#)

Sarah Mervosh

New York Times

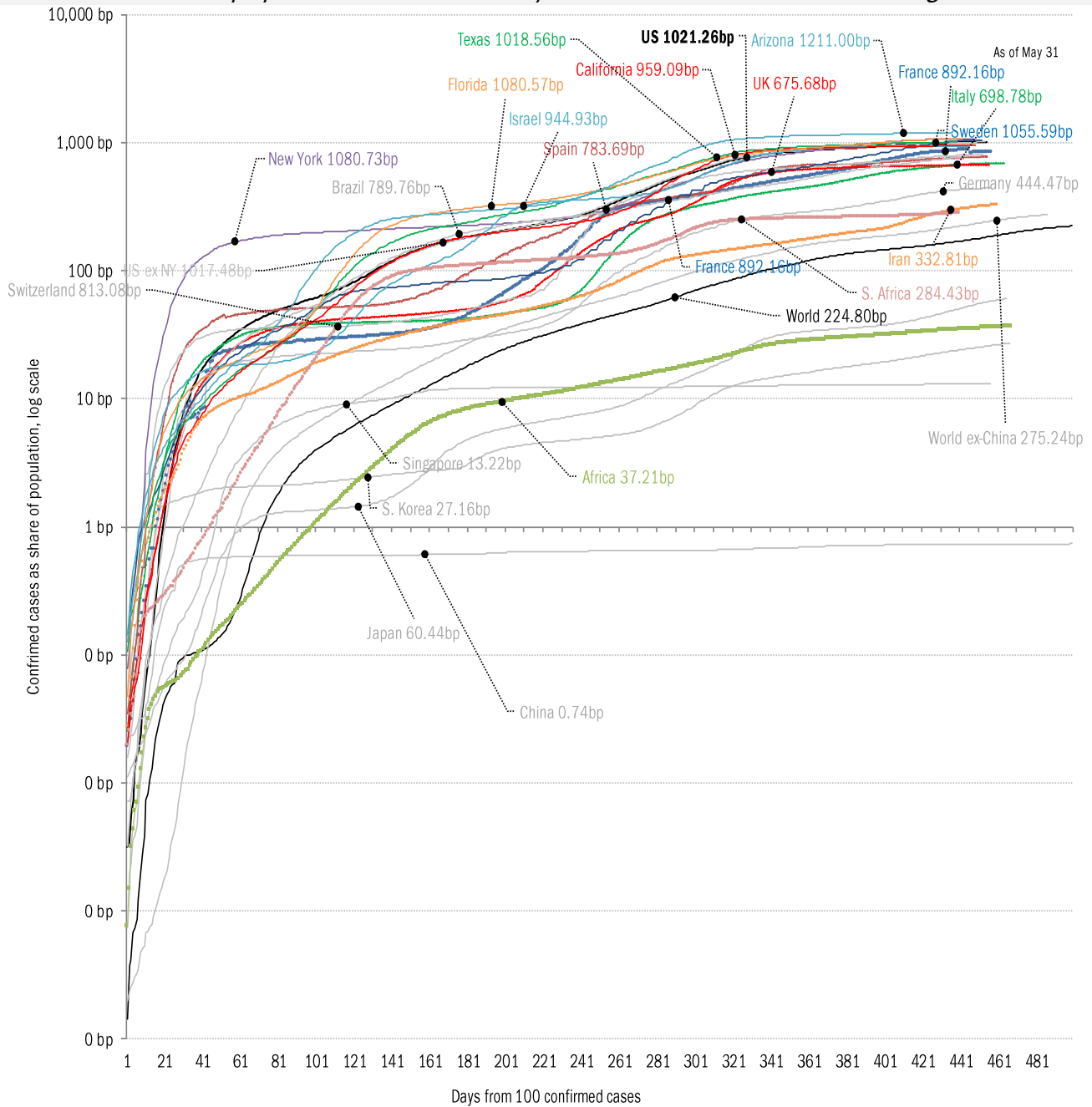
May 31, 2021

Meme of the day



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

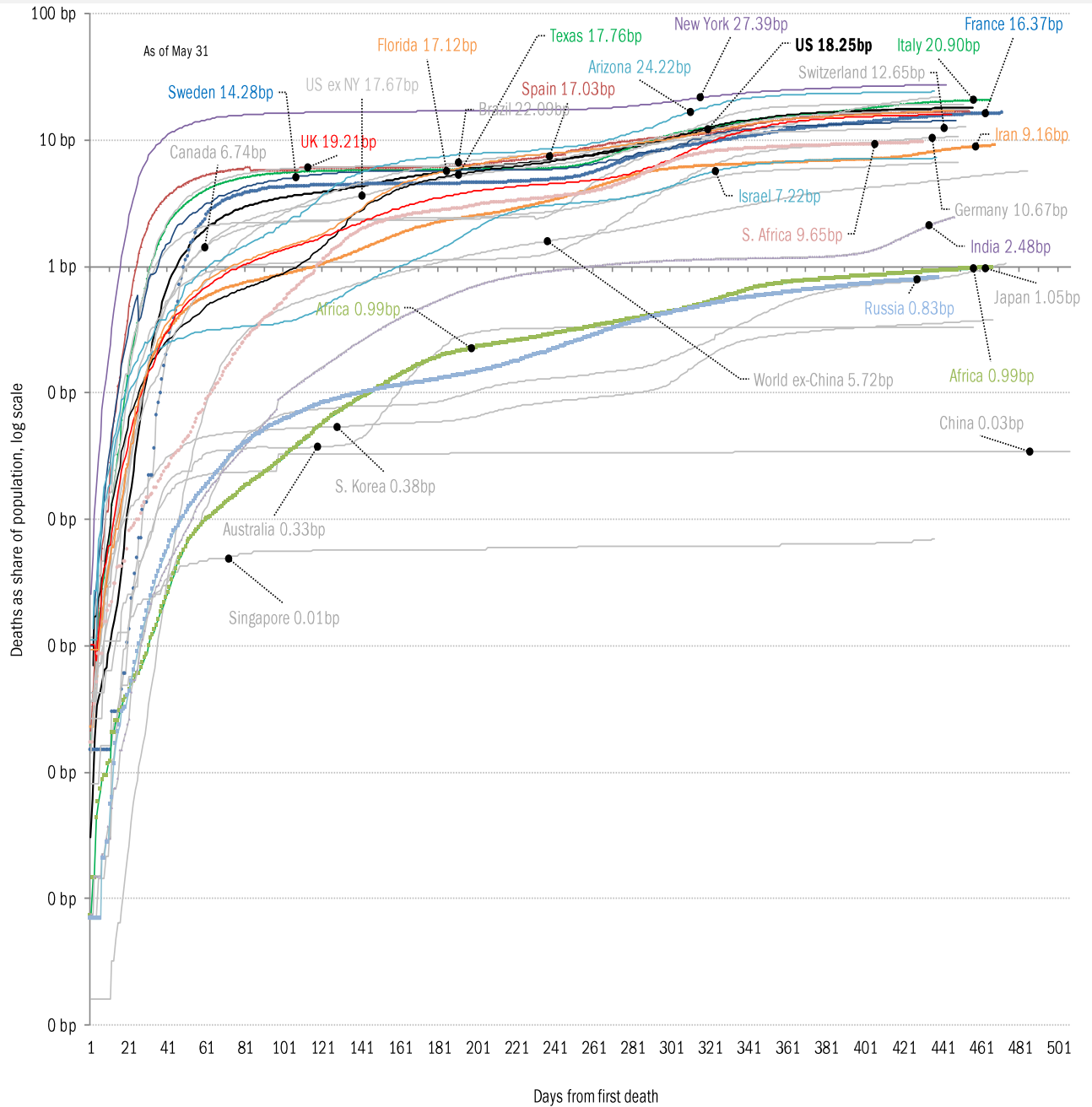
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

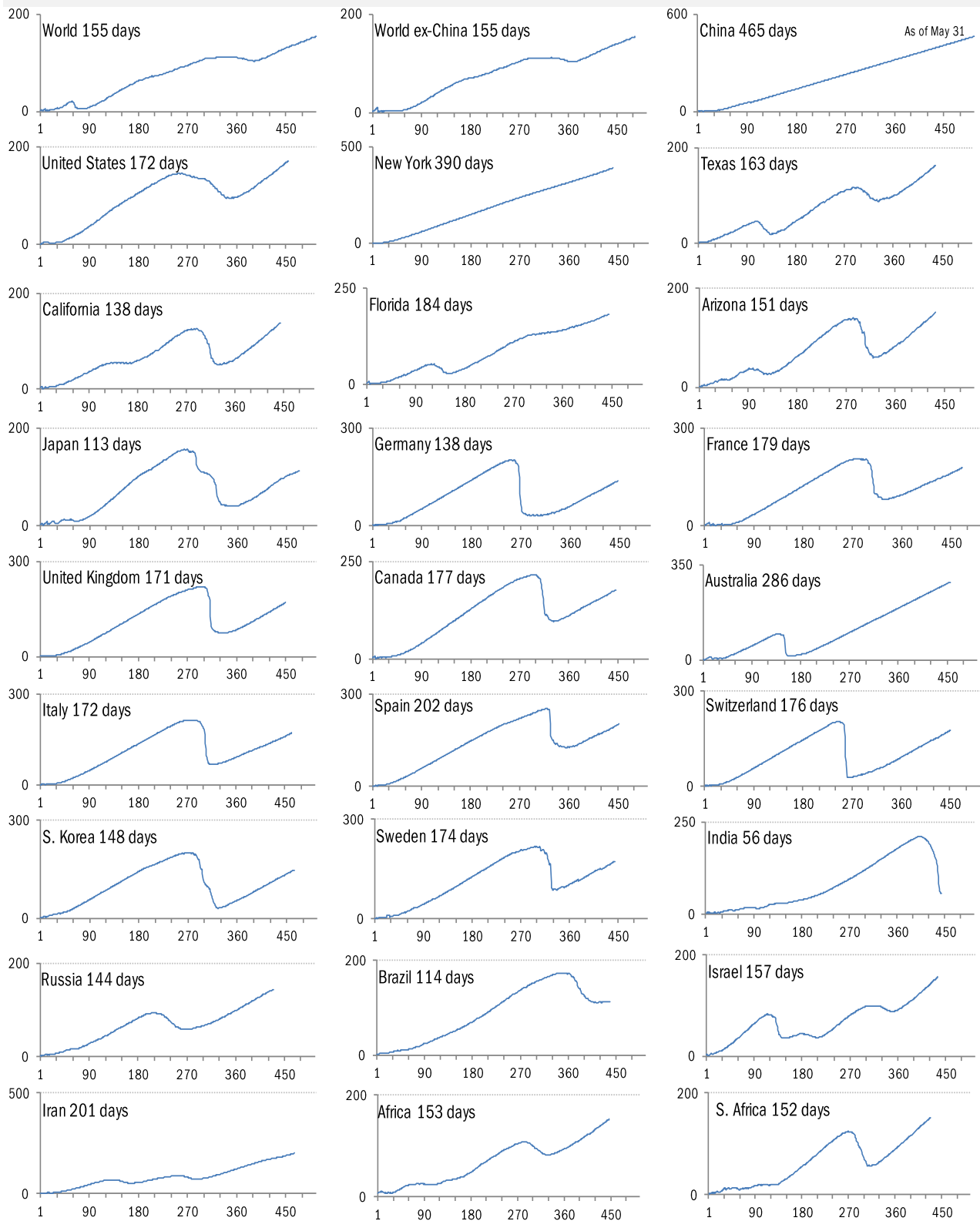


Source: [Johns Hopkins](#), TrendMacro calculations

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

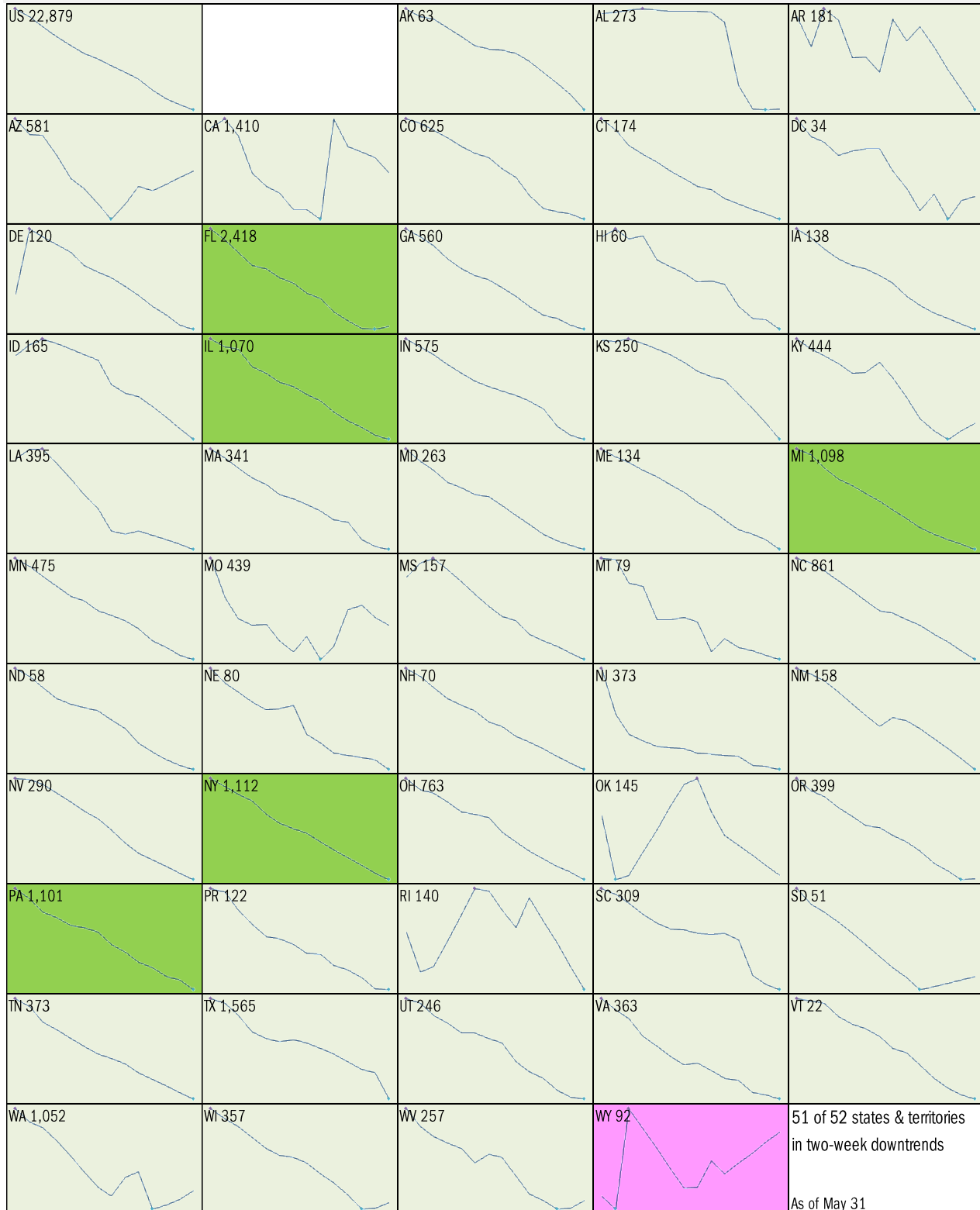
Vertical: days to double deaths Horizontal: days from first death

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

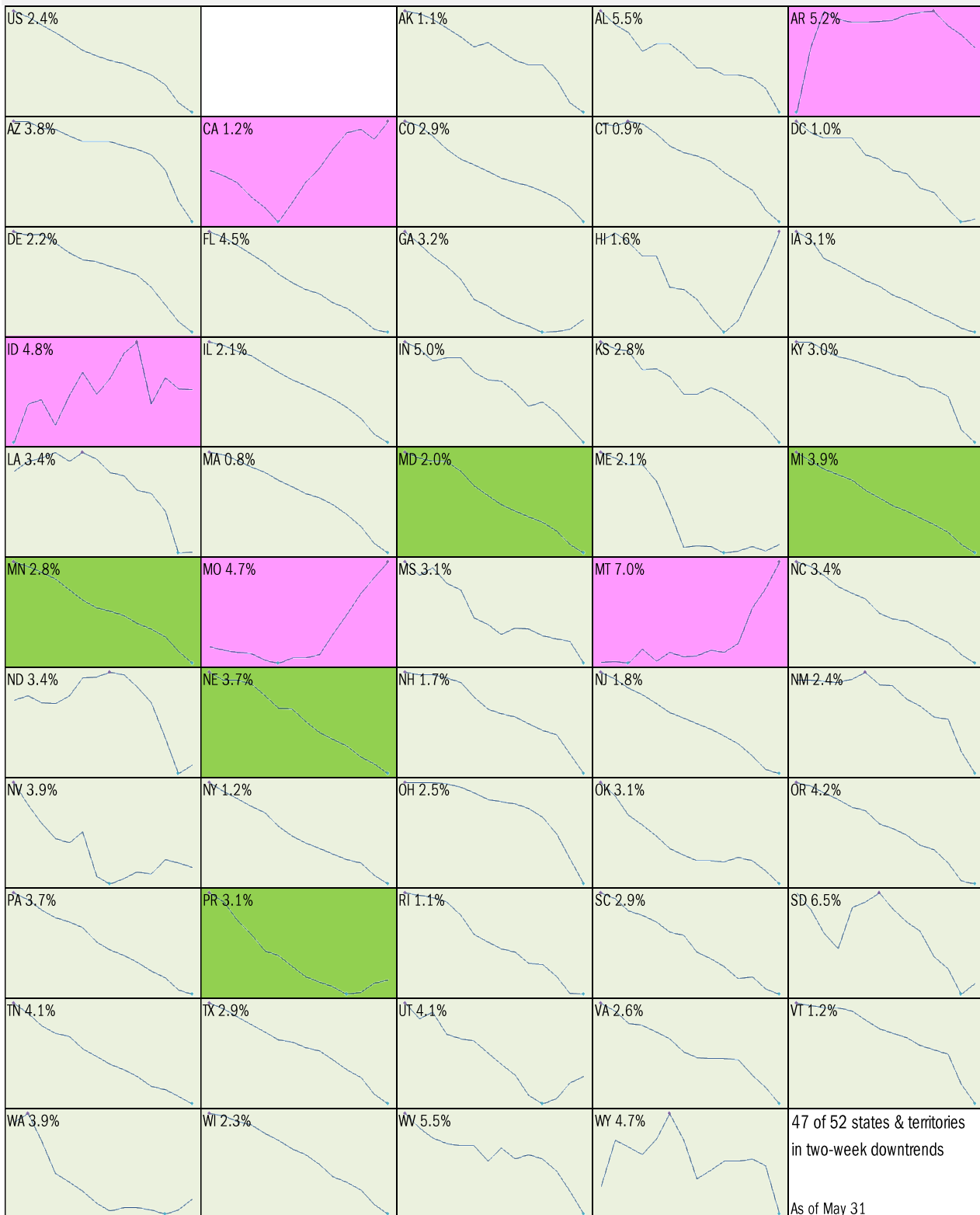


Source: [Johns Hopkins](#), TrendMacro calculations

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

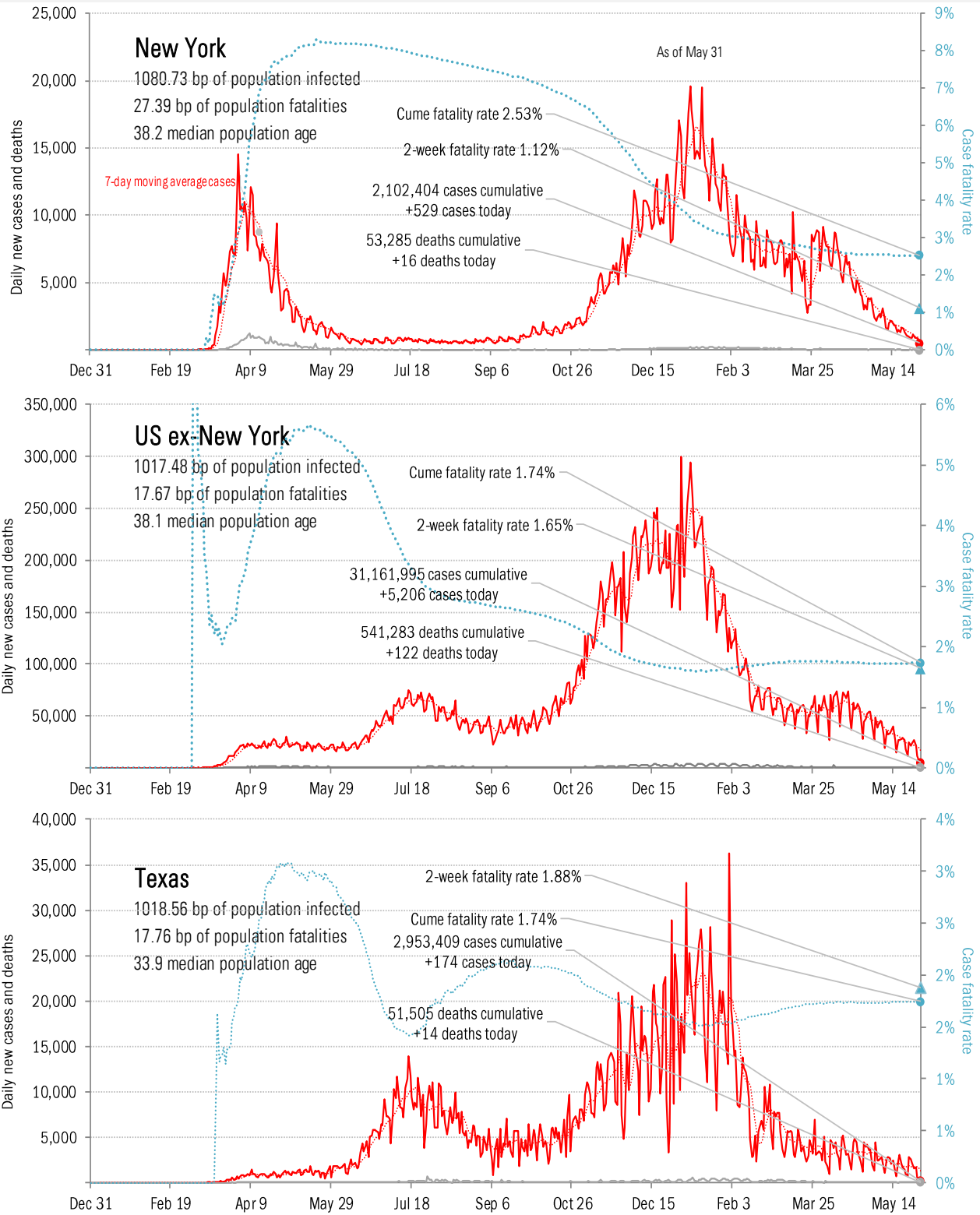
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



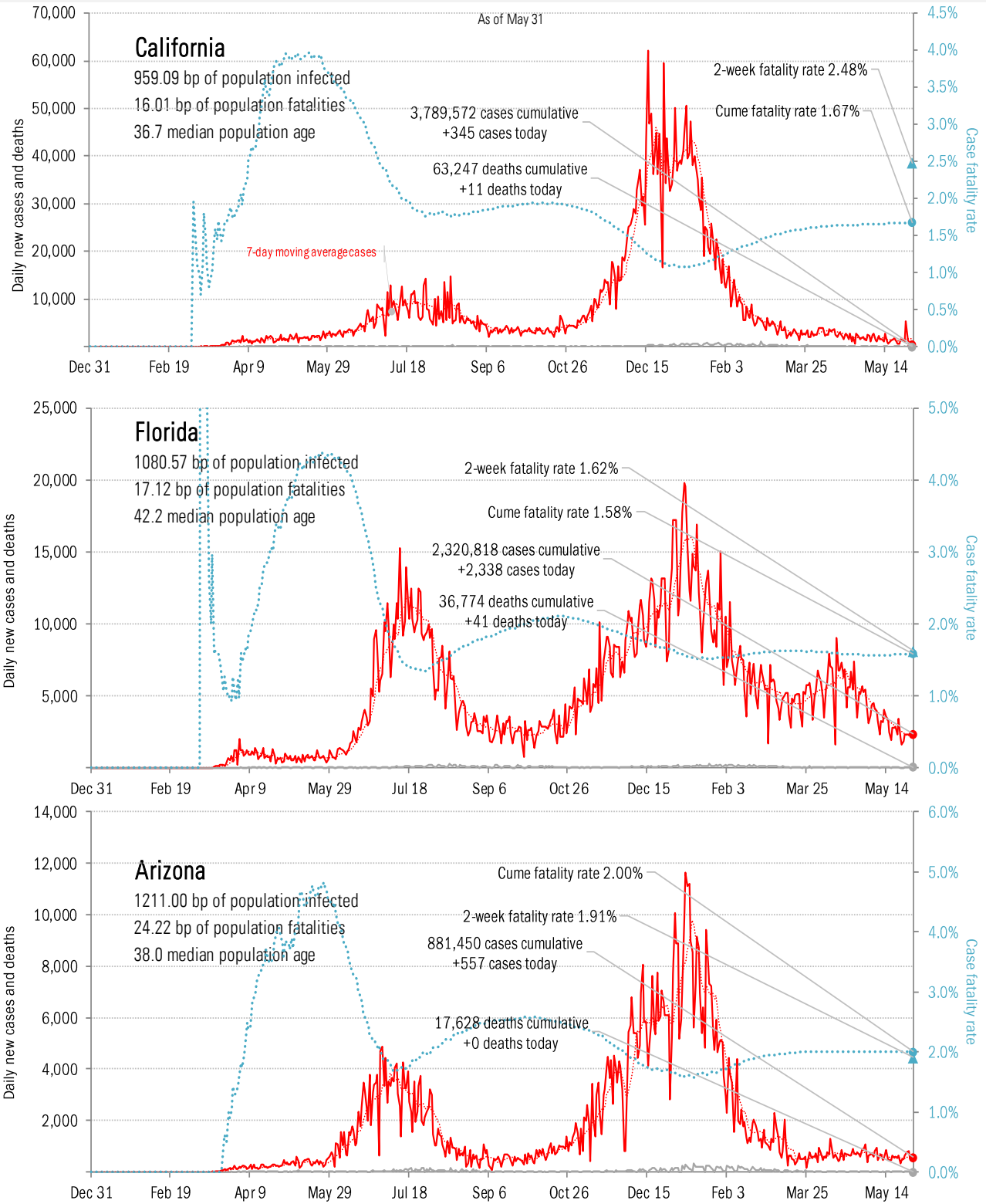
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



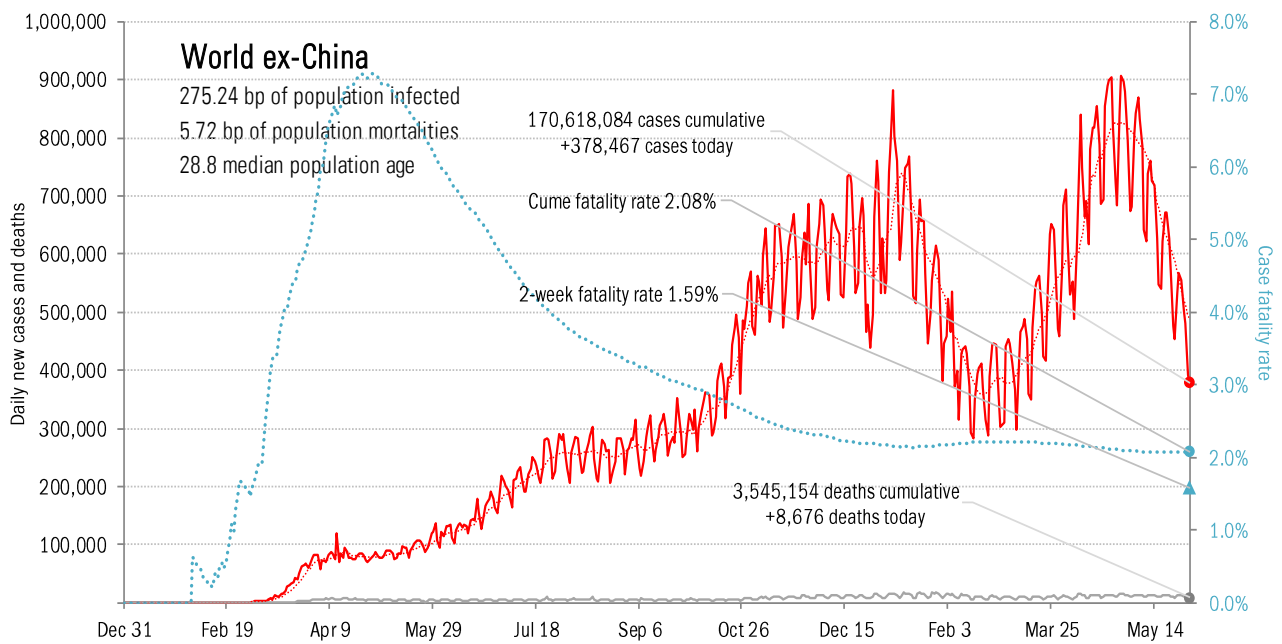
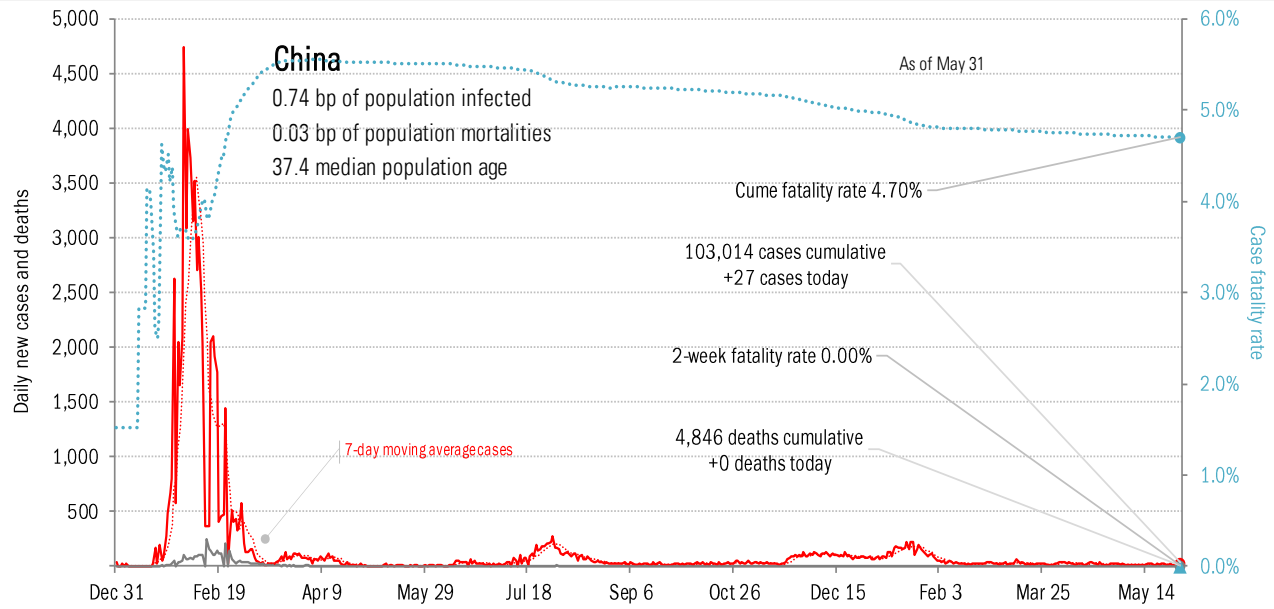
Source: [Johns Hopkins](#), TrendMacro calculations

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



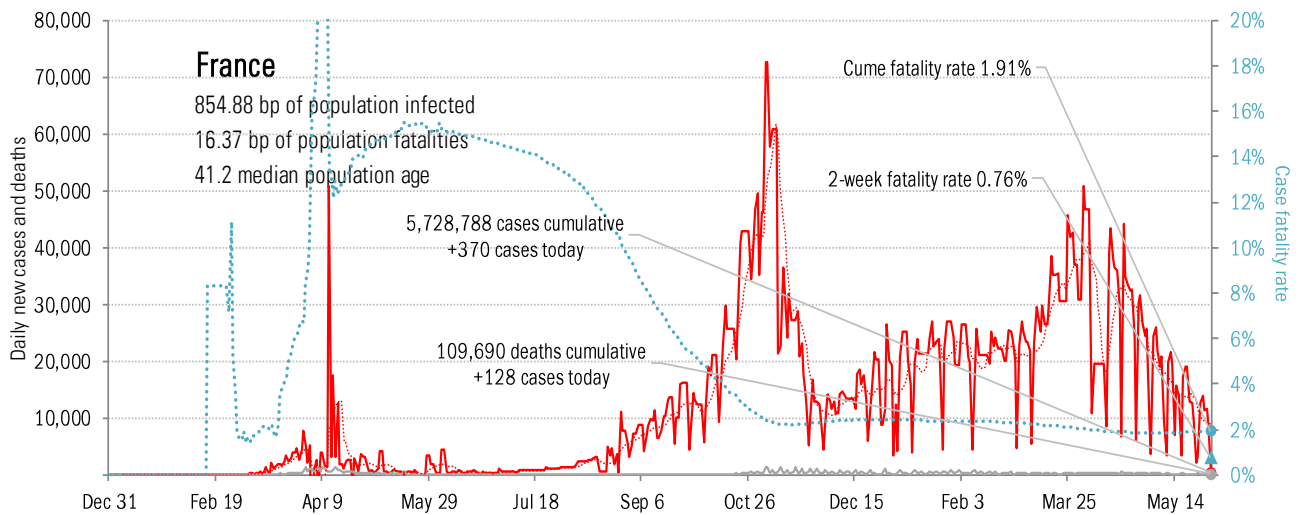
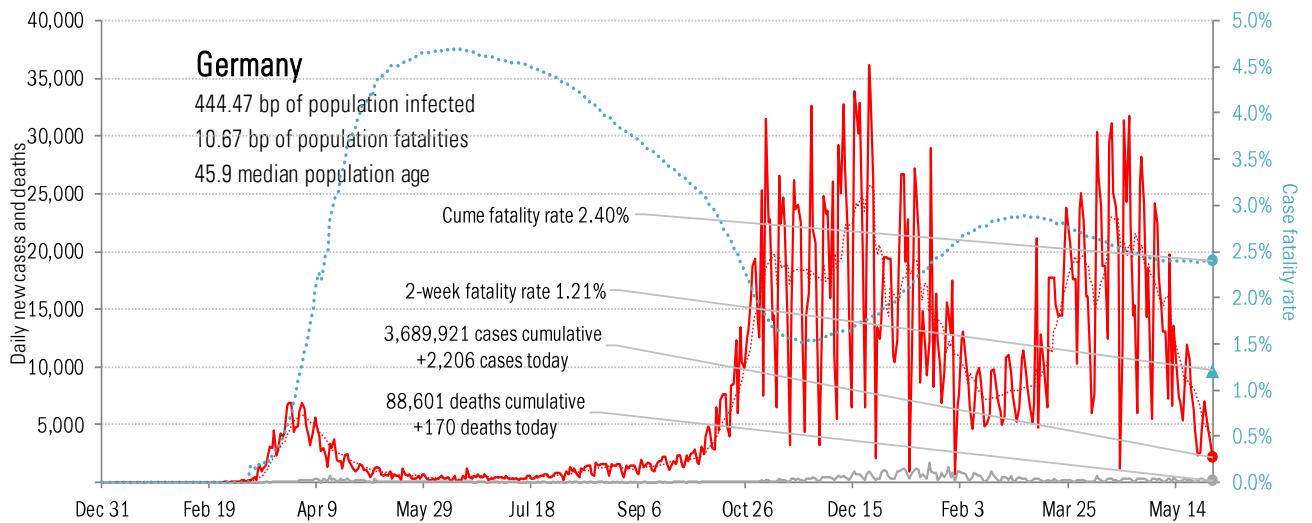
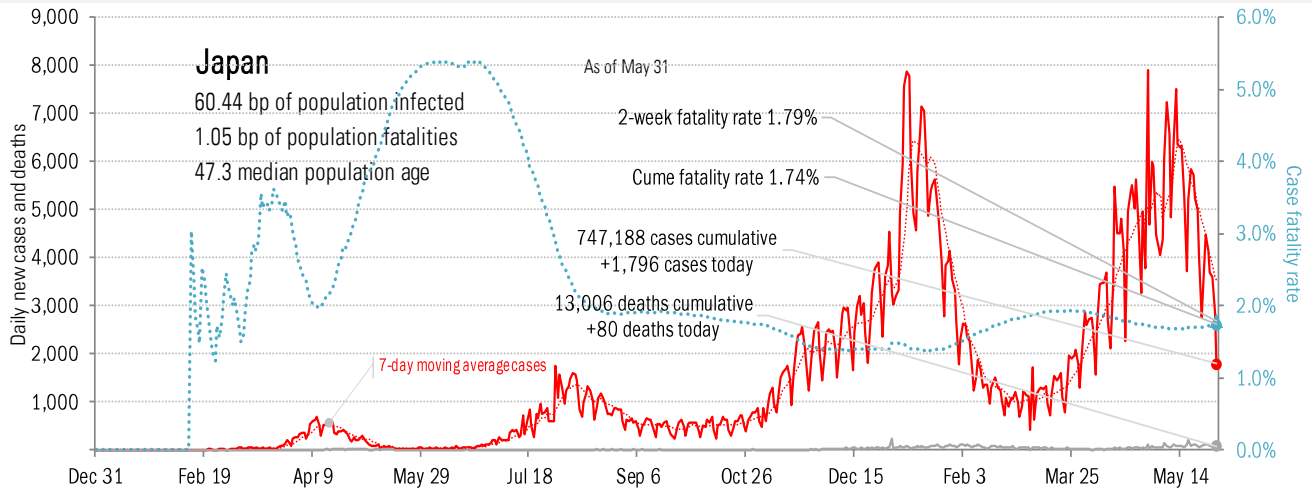
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



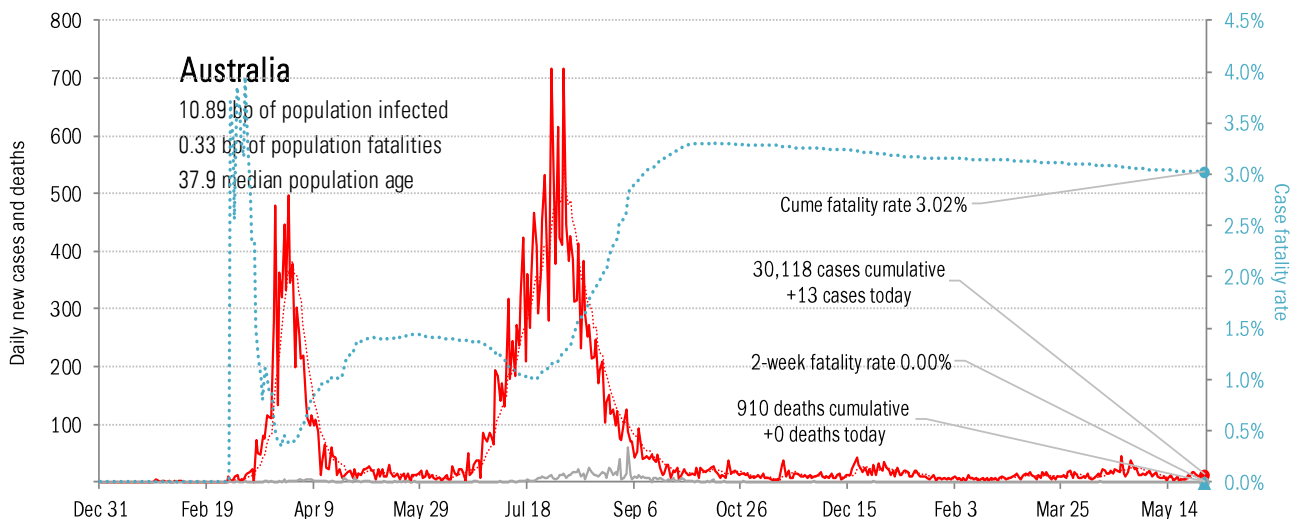
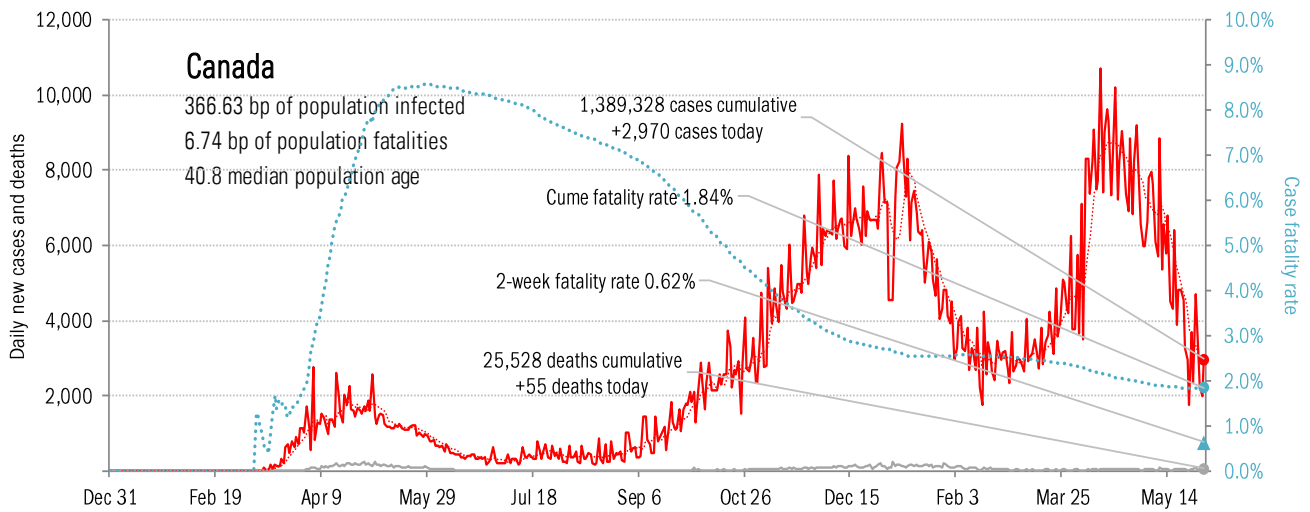
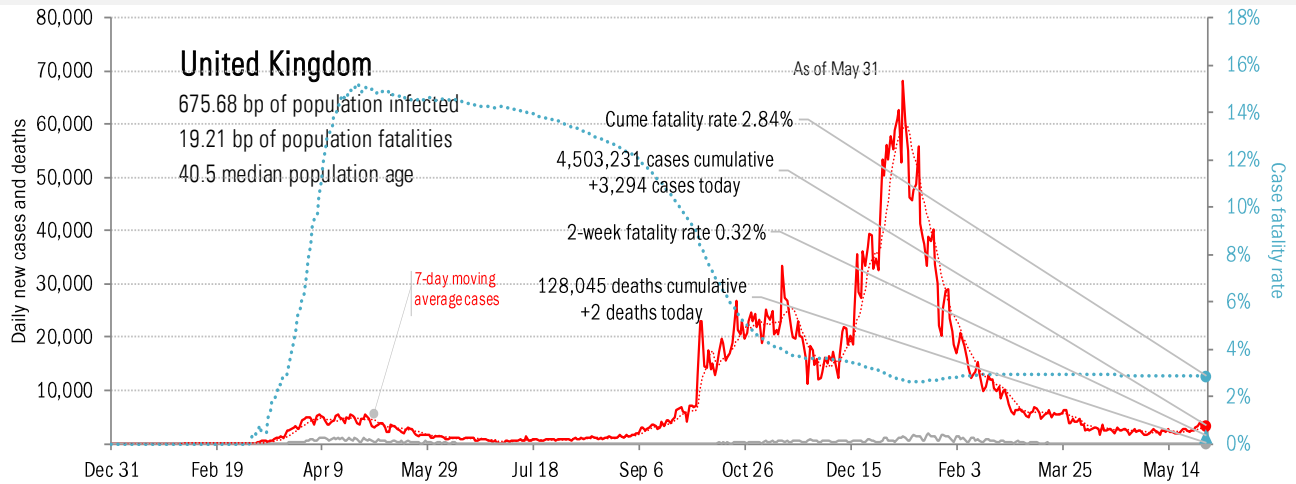
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



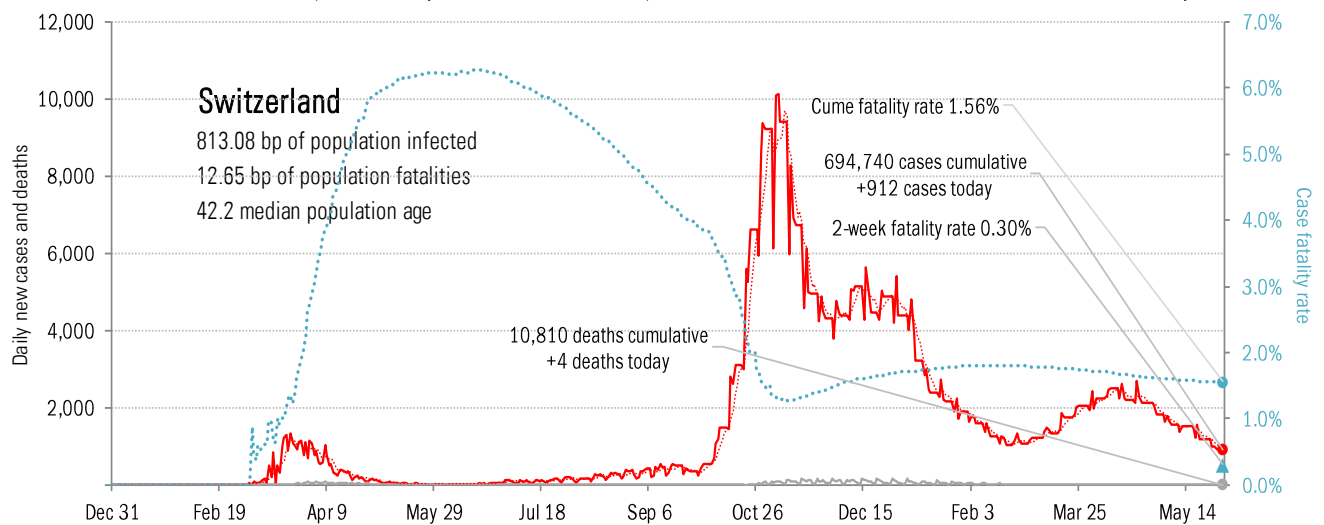
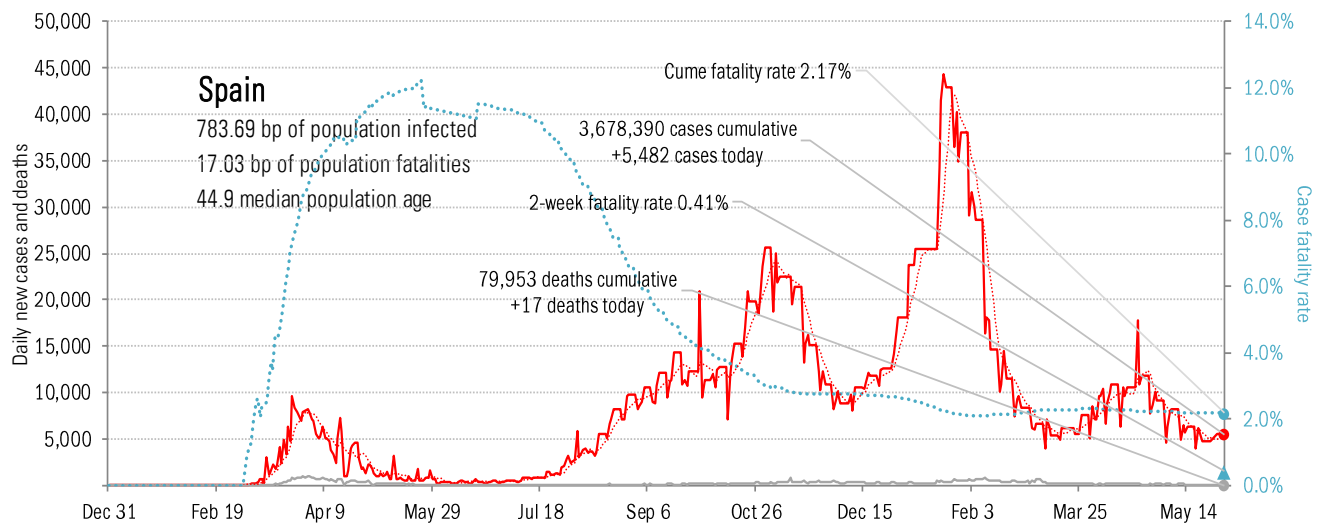
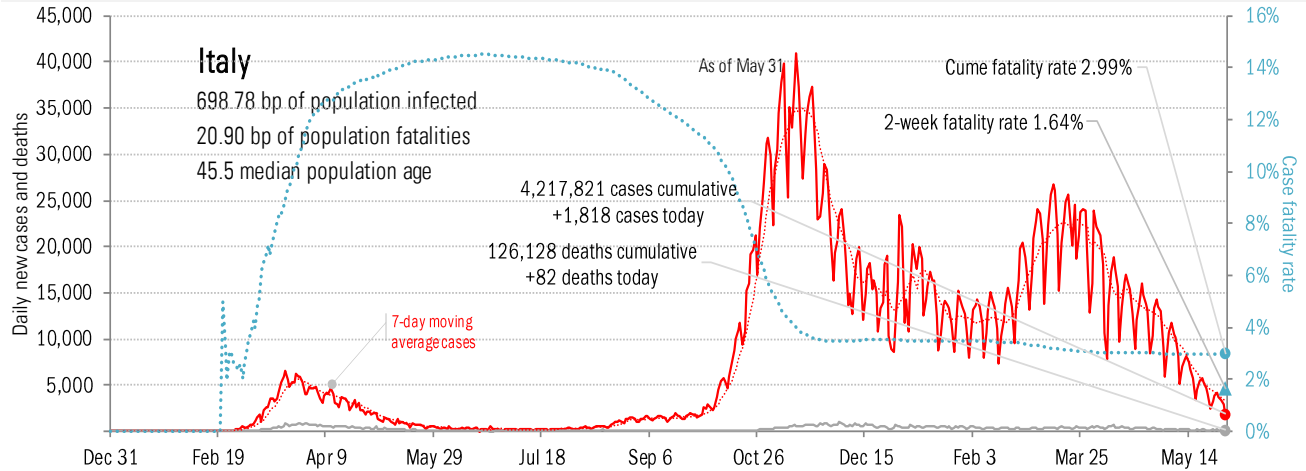
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



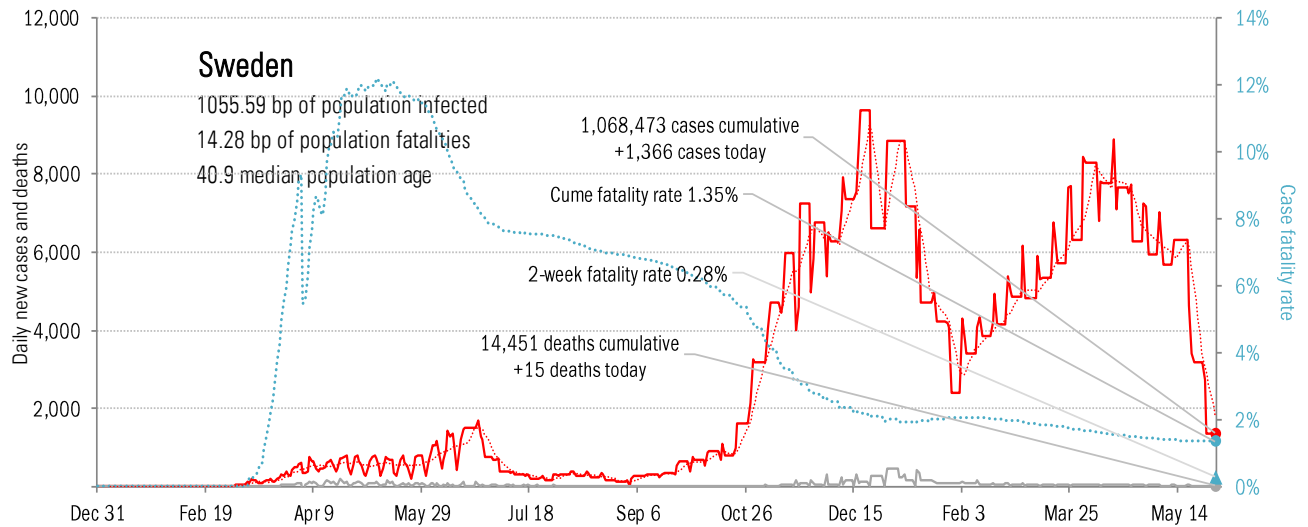
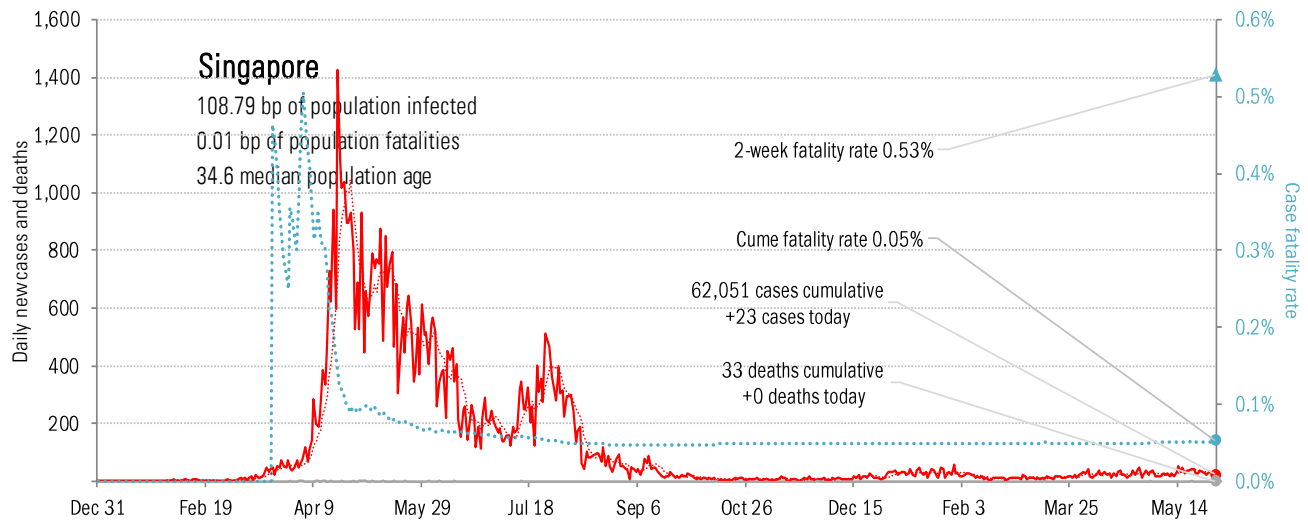
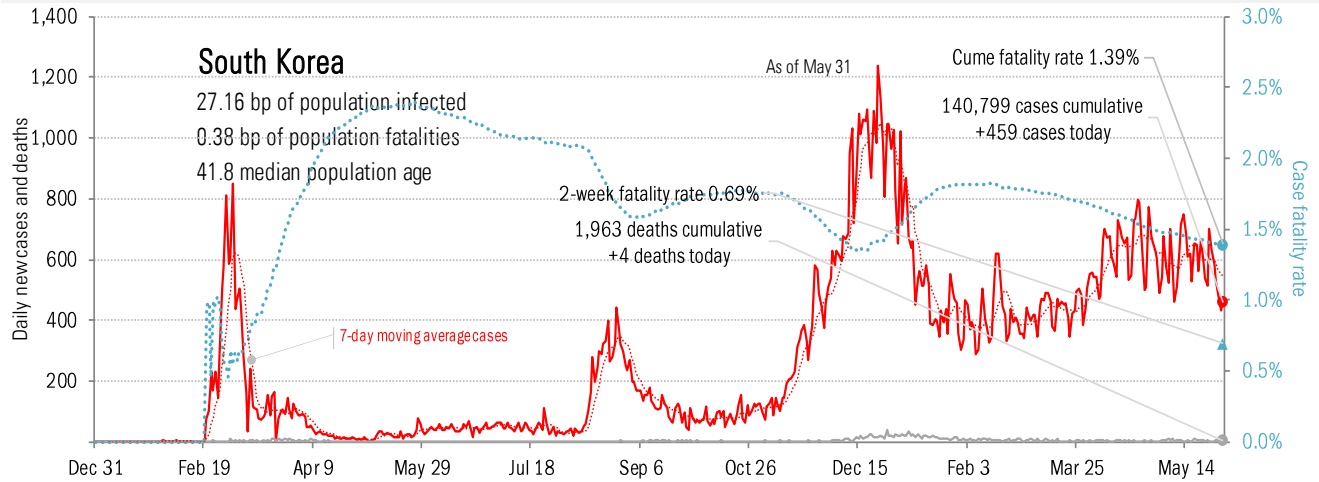
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



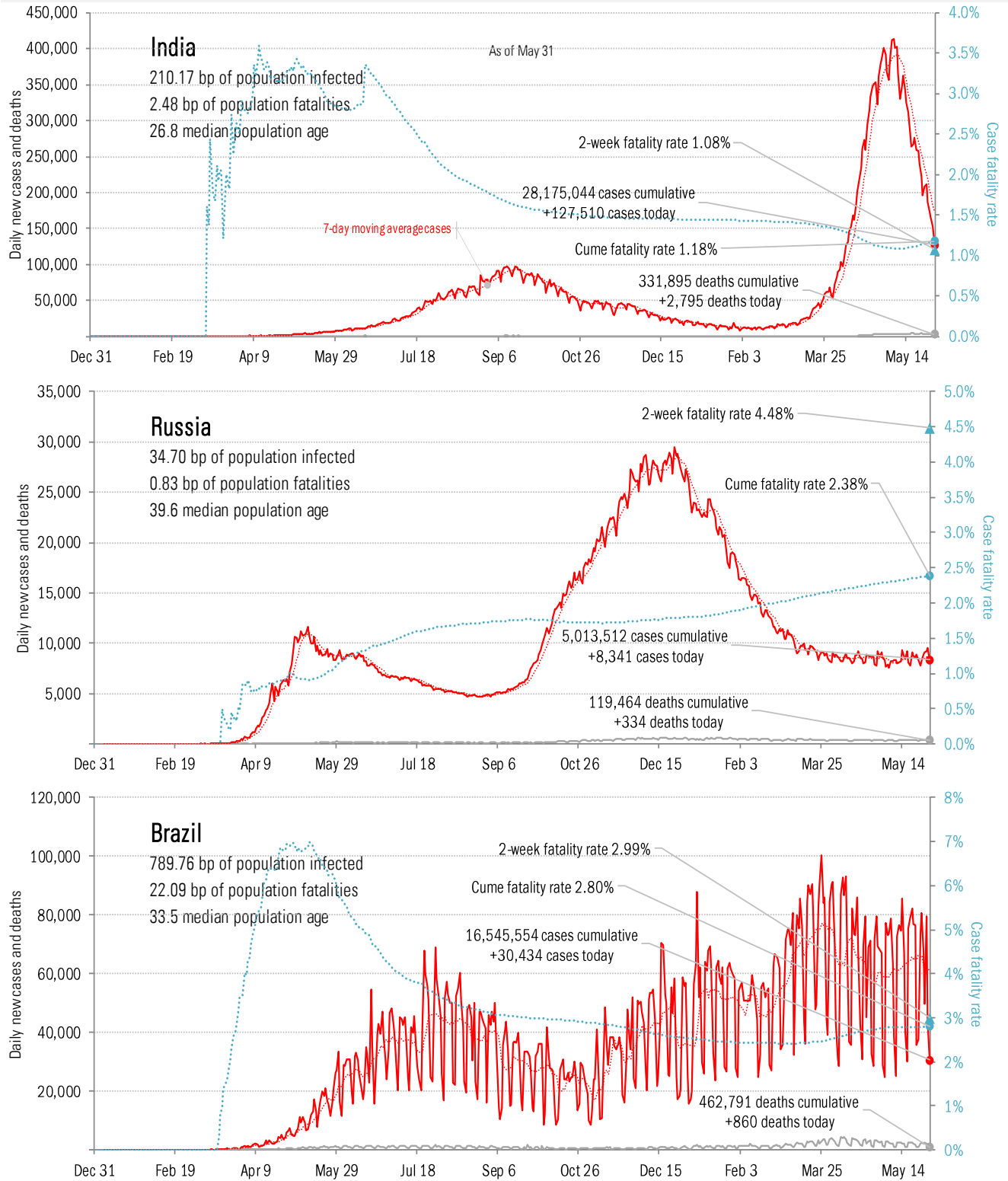
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



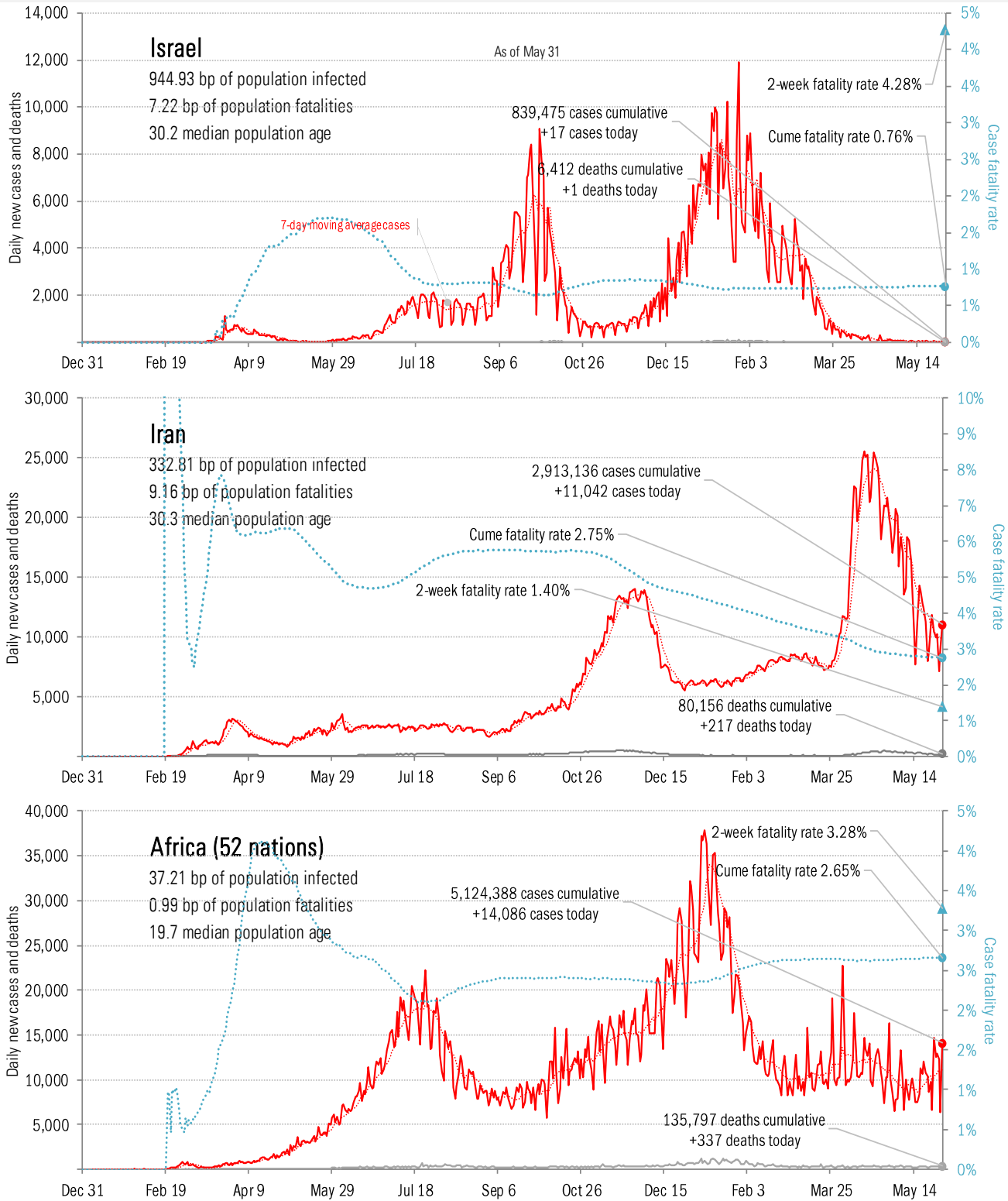
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



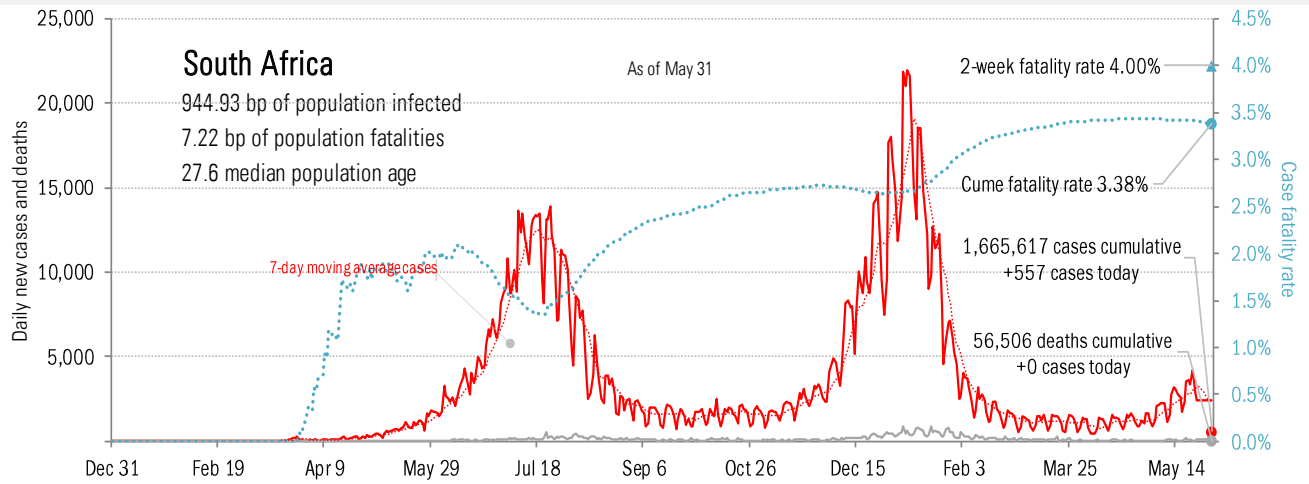
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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