Trend Macrolytics, LLC
Donald Luskin, Chief Investment Officer
Thomas Demas, Managing Director
Michael Warren, Energy Strategist

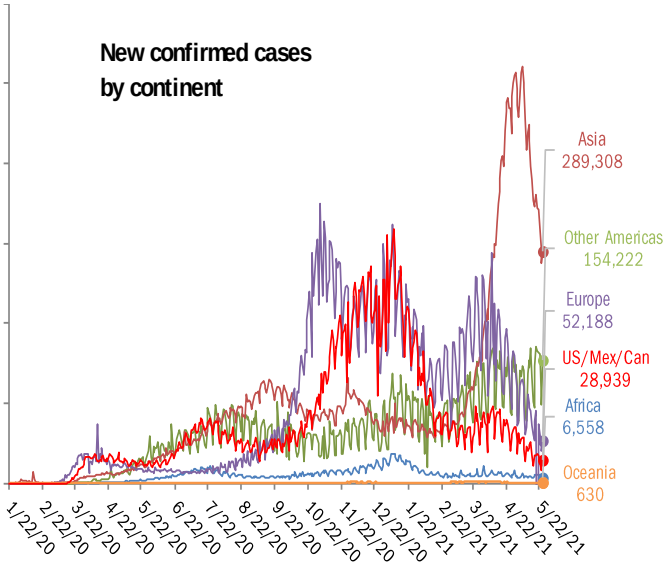
Data Insights: Covid-2019 Monitor

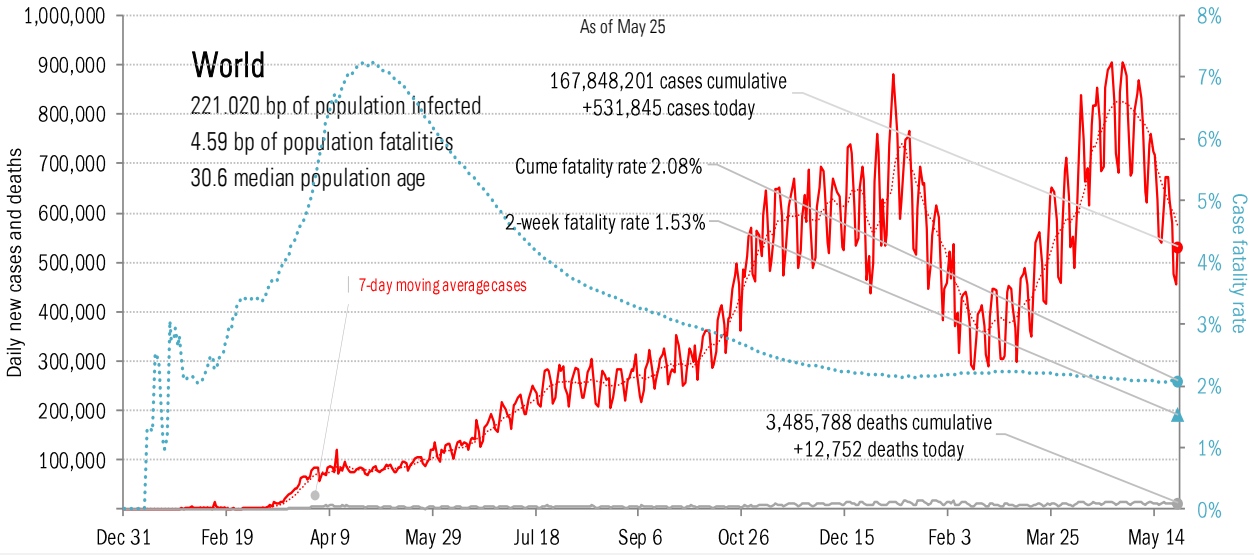
Wednesday, May 26, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+208,921	India	+4,157
Brazil	+73,453	Brazil	+2,173
Argentina	+24,601	United States	+621
United States	+22,756	Argentina	+576
Colombia	+21,181	Colombia	+459
Iran	+11,873	Peru	+417
Turkey	+9,375	Russia	+385
Nepal	+8,387	Germany	+272
Russia	+7,762	Mexico	+265
Malaysia	+7,289	Ukraine	+257
	+395,598		+9,582
World	+531,845	World	+12,752
Top ten	74%	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

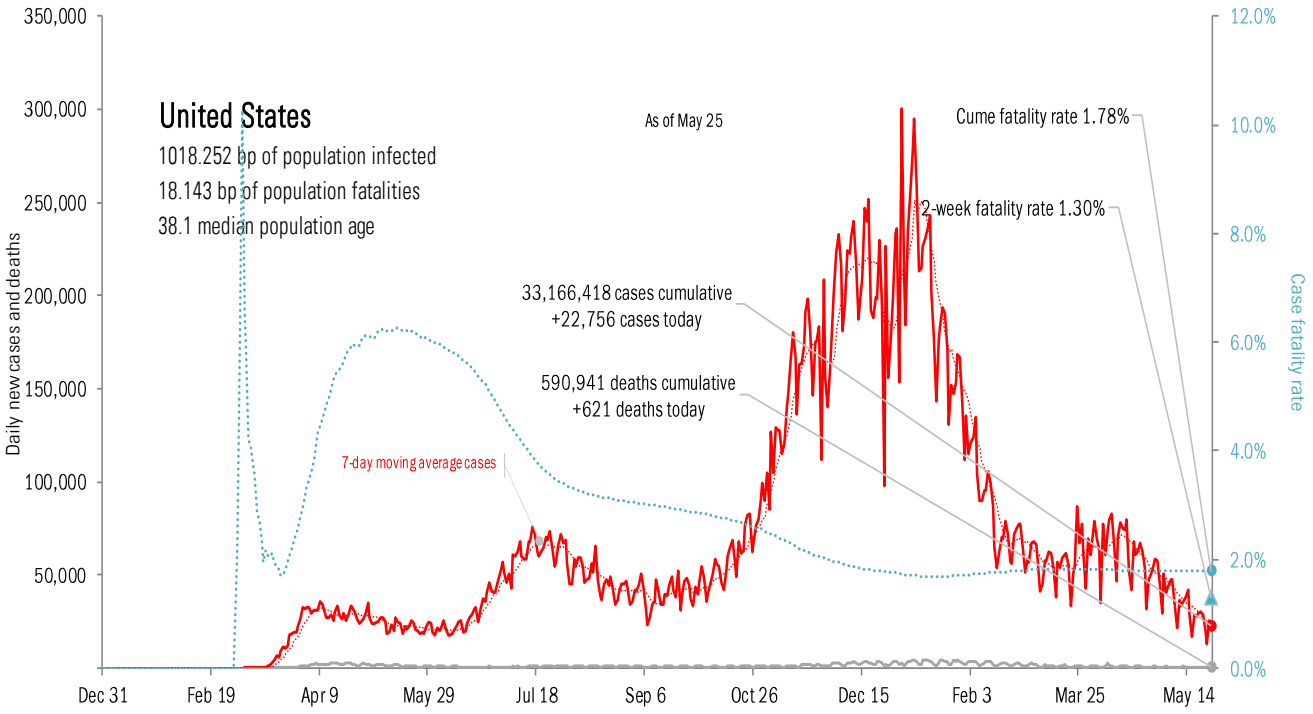
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TX	+2,528	FL	+80	GA	+72	CA	3,779,998	CA	62,986	TX	246,271	RI	92%	MI	19%
FL	+1,874	MI	+71	WA	+23	TX	2,946,793	NY	53,181	CA	234,846	MA	83%	CO	18%
CA	+1,443	MO	+43	KS	+21	FL	2,313,815	TX	51,288	FL	177,500	MO	81%	ME	14%
CO	+1,403	TX	+39	TX	+17	NY	2,097,200	FL	36,581	NY	133,317	GA	81%	MN	13%
LA	+1,043	GA	+38	WV	+10	IL	1,377,165	PA	27,043	GA	105,793	MD	80%	WV	13%
MI	+973	CA	+37	WY	+10	PA	1,198,896	NJ	26,124	PA	88,844	CT	80%	MD	13%
NY	+920	PA	+34	NH	+9	GA	1,120,923	IL	25,029	OH	84,875	PA	80%	MO	12%
WA	+916	NJ	+24	NM	+9	OH	1,098,594	GA	20,699	IL	79,802	MI	80%	NM	12%
PA	+812	VA	+21	MS	+8	NJ	1,014,579	MI	20,225	KY	74,543	DC	78%	ID	12%
IL	+808	IL	+18	DC	+6	NC	998,701	OH	19,709	MI	70,750	MN	78%	GA	12%
	+12,720		+405		+185		17,946,664		342,865		1,296,541				
All states	+22,756		+621		-219	All states	33,166,418		590,941		2,323,393	All states	70%		67%
Top ten	56%		65%		-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	
NC	-1,897	NM	-114	FL	-72	ME	+92 bp
WA	-1,089	NY	-16	KY	-49	UT	+46 bp
MI	-566	NE	-14	NC	-39	VT	+39 bp
TN	-535	NC	-12	AZ	-34	OR	+35 bp
PA	-494	MD	-8	NY	-25	MS	+34 bp



Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

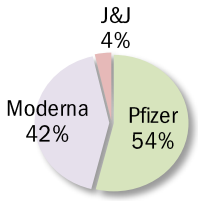
Rolling out the vaccines in the US and the world

US overall	Total				Today
Doses distributed	371,439,175				+1.783 million
Doses administered	296,758,182				+0.899 million
Administered	**One dose**	**% Pop**	**Immune**	**% pop**	**New immune today**
Total population	168,802,152	51%	134,920,795	40%	+0.463 million
Age 12 to 17	5,361,245	21%	2,036,305	8%	+0.031 million
Age 18 to 64	115,012,151	56%	90,951,106	45%	+0.469 million
Age 65 and over	48,263,179	88%	41,924,639	77%	+0.037 million

Immunity	Full	Partial
US	39.2%	49.2%
UK	34.2%	56.3%
France	14.7%	34.6%
Spain	17.7%	36.3%
Germany	14.2%	40.3%
Italy	17.6%	35.9%
Australia	1.6%	12.8%
Israel	59.2%	62.9%
Canada	4.5%	52.8%
Japan	2.3%	5.6%
Africa	0.5%	1.7%
India	3.0%	11.1%
Brazil	9.9%	20.1%

Global data differs from sources, timing

China NA



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

201 days

by Dec 11, 2021

63.5% of population >18 immunized

14.0% previously tested positive

77.5% vs 60% adult herd immunity*

Best

Middle

Worst

AK	WI	VT	NH	ME
59.0%	52.9%	73.9%	65.4%	68.4%
45.3%	50.1%	69.9%	64.5%	62.2%
38.7%	43.5%	53.1%	41.3%	52.9%

WA	ID	MT	ND	MN	IL	MI		NY	MA	
60.6%	47.2%	53.2%	47.2%	57.4%	57.8%	58.1%		60.2%	68.6%	
55.0%	37.0%	44.5%	41.6%	53.3%	53.5%	47.8%		54.3%	65.0%	
44.3%	32.1%	37.5%	36.0%	44.7%	38.9%	40.9%		45.4%	50.8%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
64.2%	48.7%	46.2%	56.0%	54.0%	49.8%	53.1%	61.5%	63.7%	66.1%	71.0%
53.4%	44.5%	36.6%	47.6%	48.4%	40.9%	44.9%	57.0%	58.7%	62.0%	59.6%
42.9%	35.7%	31.4%	41.9%	42.7%	34.4%	39.3%	42.0%	47.3%	51.8%	50.0%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
62.1%	50.1%	60.5%	53.7%	49.9%	50.5%	53.2%	59.3%	66.9%	64.5%	
55.6%	44.6%	53.0%	47.5%	41.5%	45.4%	39.8%	53.9%	55.6%	53.1%	
41.7%	31.7%	43.9%	41.3%	33.7%	37.6%	33.6%	43.5%	45.5%	41.5%	
	AZ	NM	KS	AR	TN	NC	SC	DC		
	55.7%	56.9%	53.2%	48.4%	46.4%	55.9%	51.5%	75.5%		
	45.4%	56.5%	46.0%	38.8%	38.5%	42.7%	40.2%	56.0%		
	35.2%	46.4%	37.6%	30.3%	31.1%	35.4%	32.9%	44.5%		
			OK	LA	MS	AL	GA			
			52.0%	44.1%	45.9%	48.5%	52.5%			
			41.0%	35.1%	33.6%	35.8%	38.7%			
			33.2%	30.6%	26.8%	28.9%	30.7%			
HI			TX					FL		PR
66.4%			54.5%					57.9%		62.9%
65.3%			43.1%					48.0%		47.7%
46.9%			34.4%					37.8%		34.0%

As of May 25

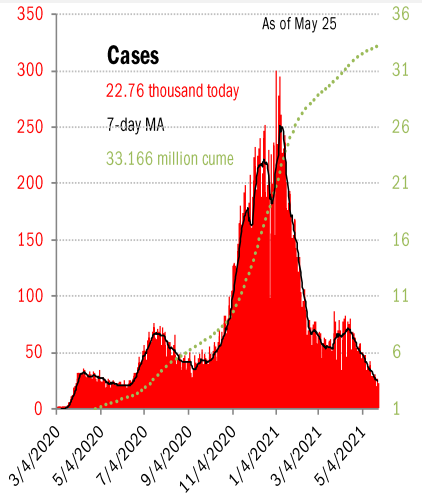
* Includes persons >18 fully immunized or previosuly tested positive, no overlap. Disregards untested positives, natural immunities.

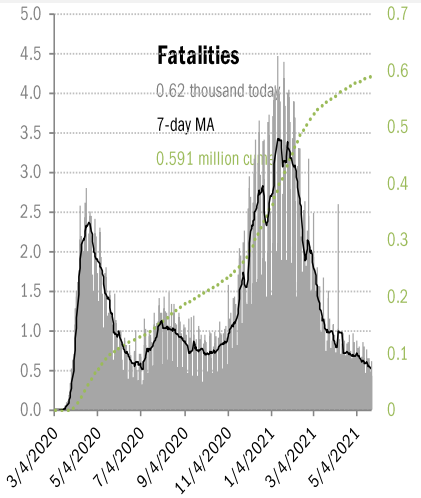
** One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

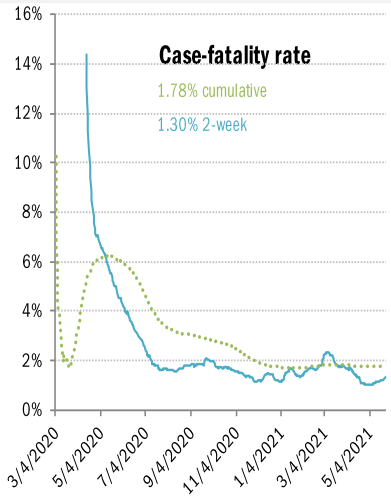
Source: CDC, CDC, Our World in Data, TrendMacro calculations

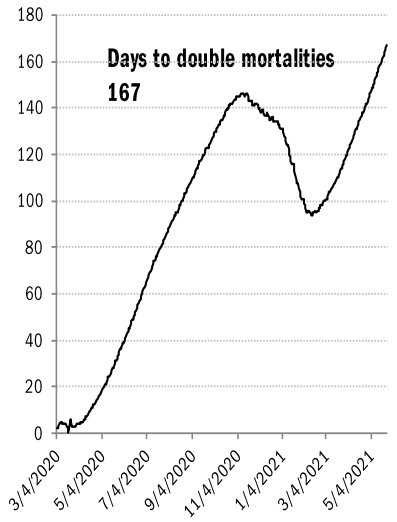
US deep-dive

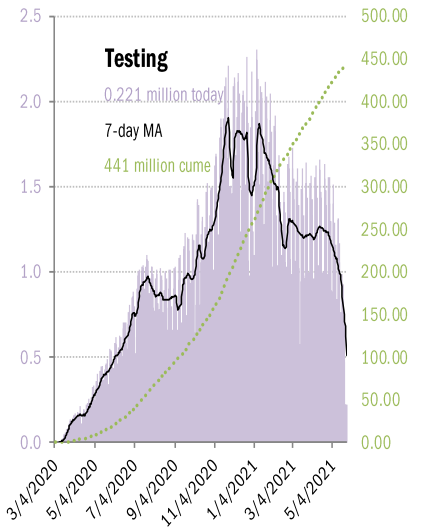
National and state-by-state data do not line up because of different sources

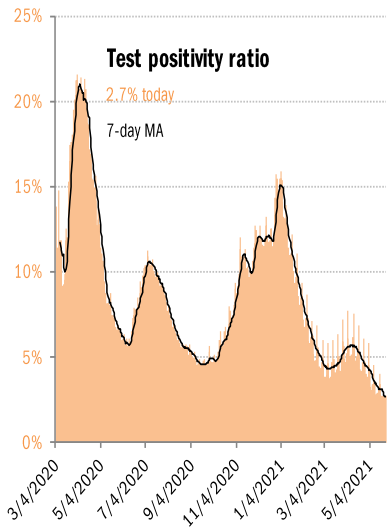


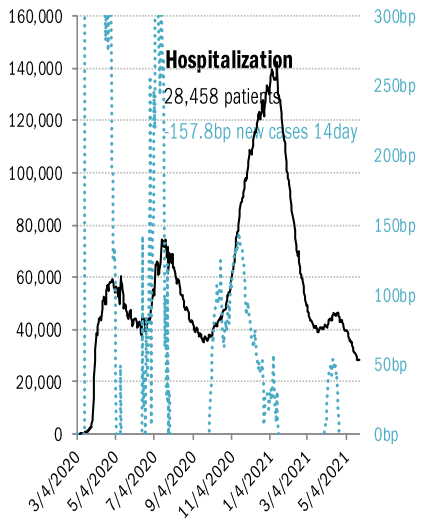


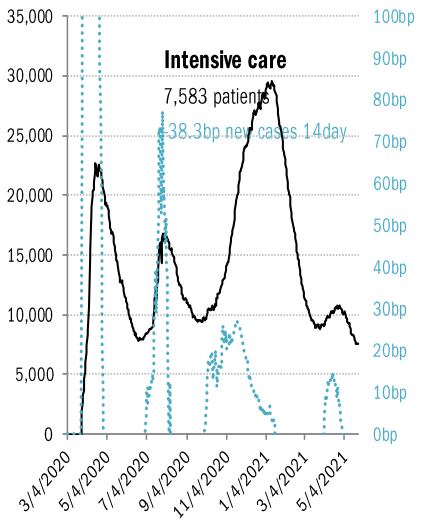


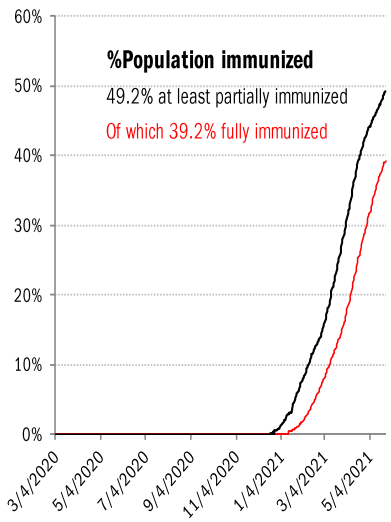












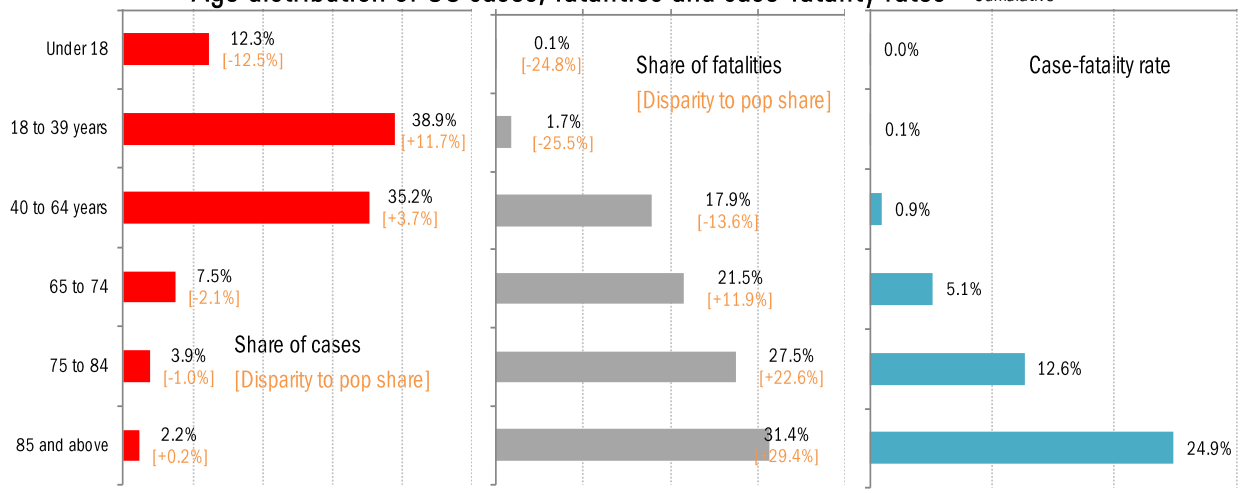
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

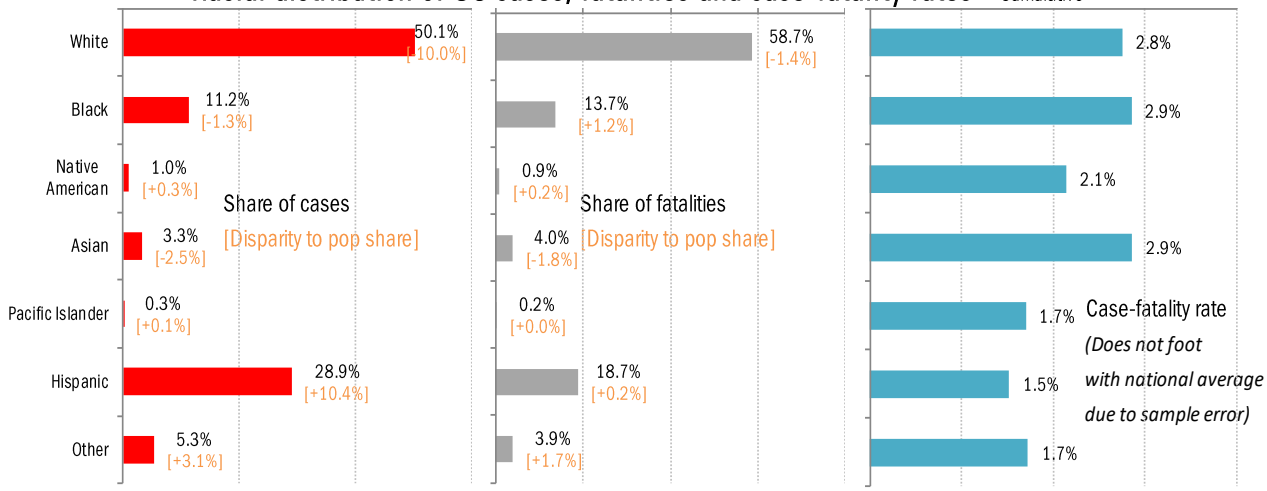
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



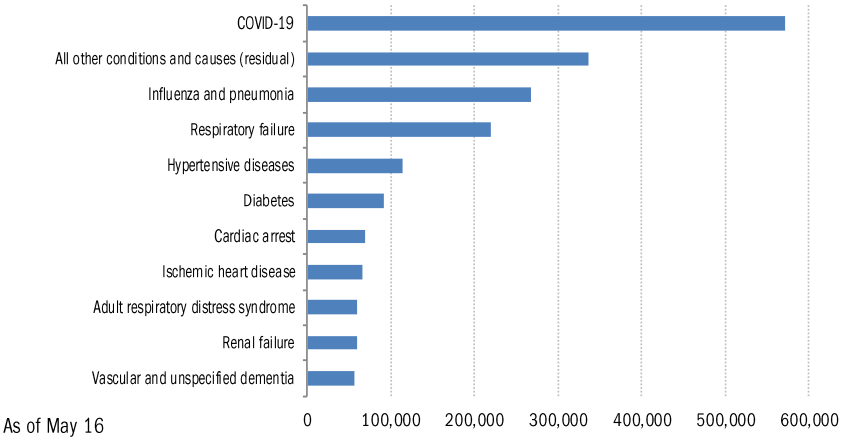
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of May 16

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

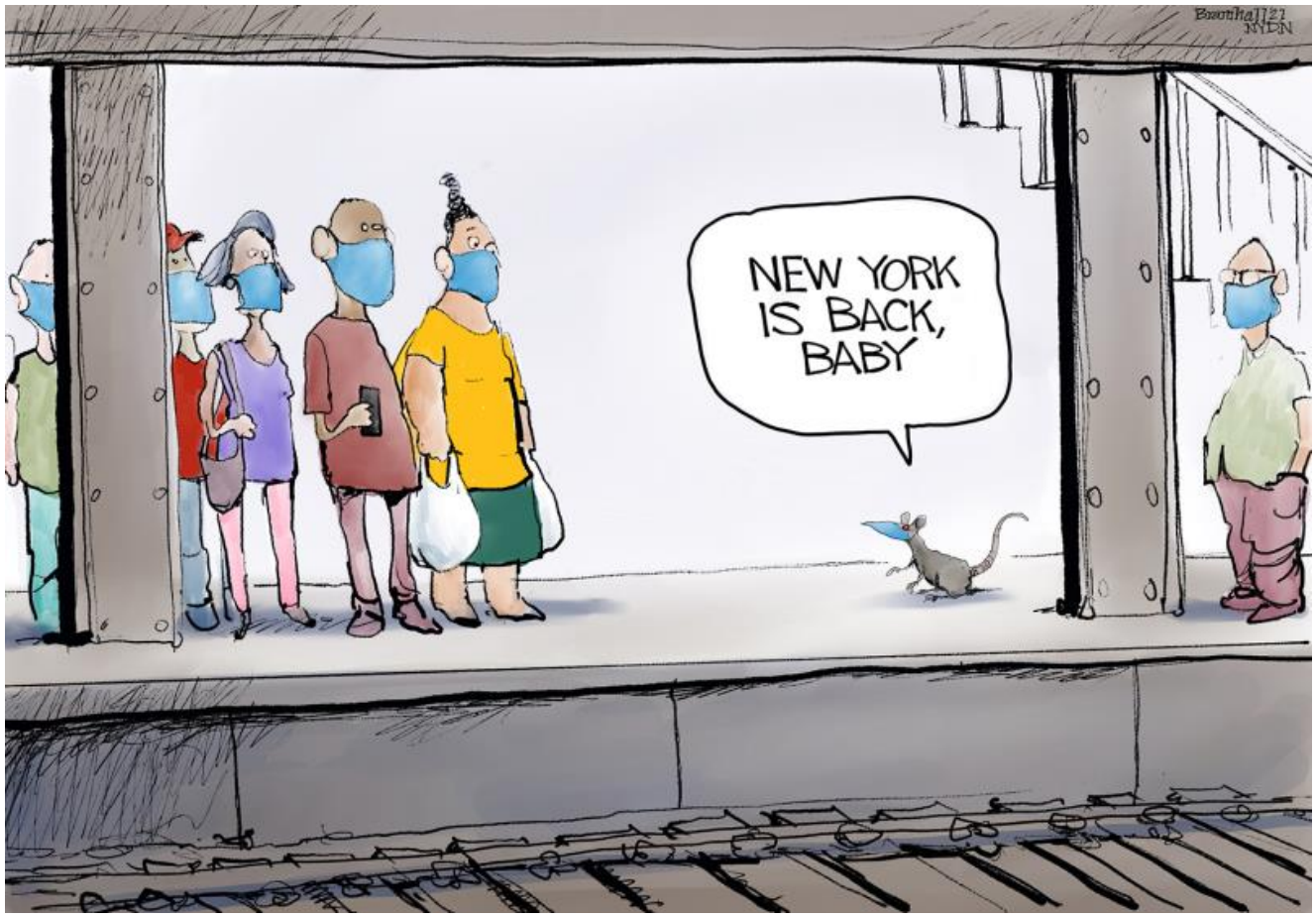
Recommended reading

PolitiFact retracts Wuhan lab theory 'fact-check'
Becket Adams
Washington Examiner
May 22, 2021

If You Thought Working From Home Was Messy, Here Comes Hybrid Work
Chip Cutter
Wall Street Journal
May 25, 2021

C.D.C. Will Not Investigate Mild Infections in Vaccinated Americans
Roni Caryn Rabin
New York Times
May 25, 2021

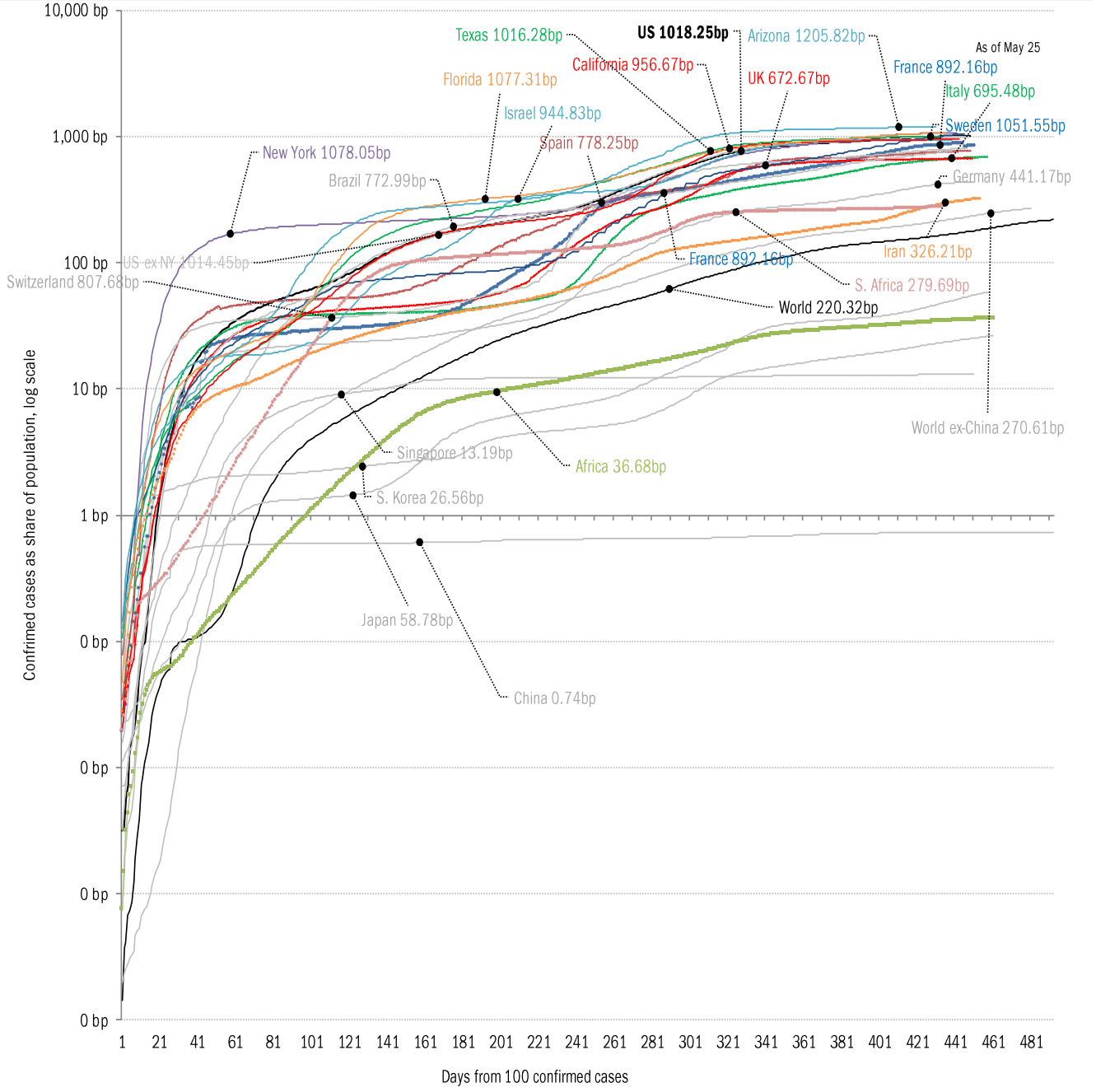
Meme of the day



Source: Our beloved clients, and Power Line blog "The Week in Pictures"

The coronavirus case accelerometer… tracking the world's infection curves

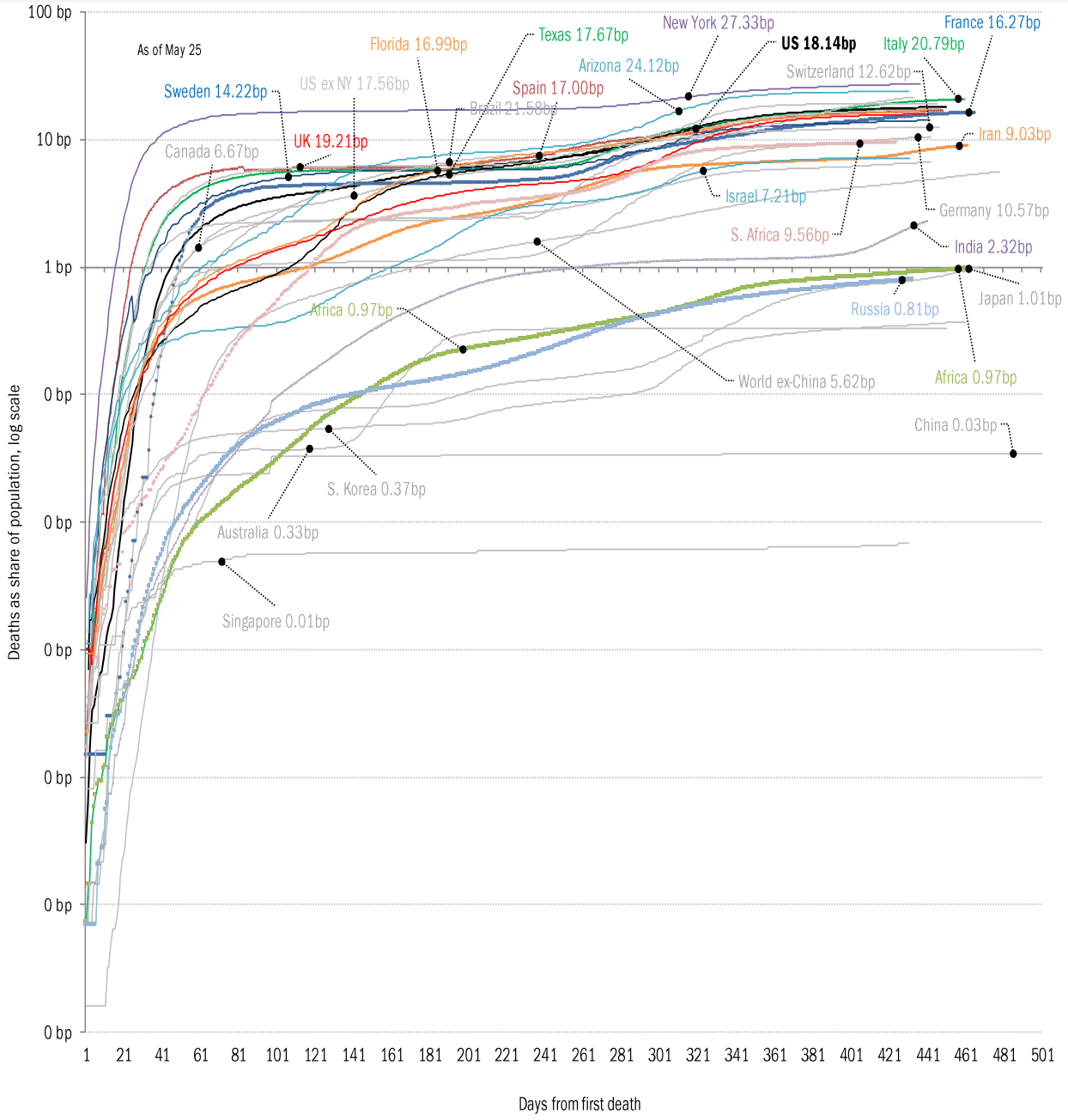
Share of infected population from first day with 100 confirmed cases, log scale



Source: Johns Hopkins, TrendMacro calculations

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

Share of deceased population from day of first fatality

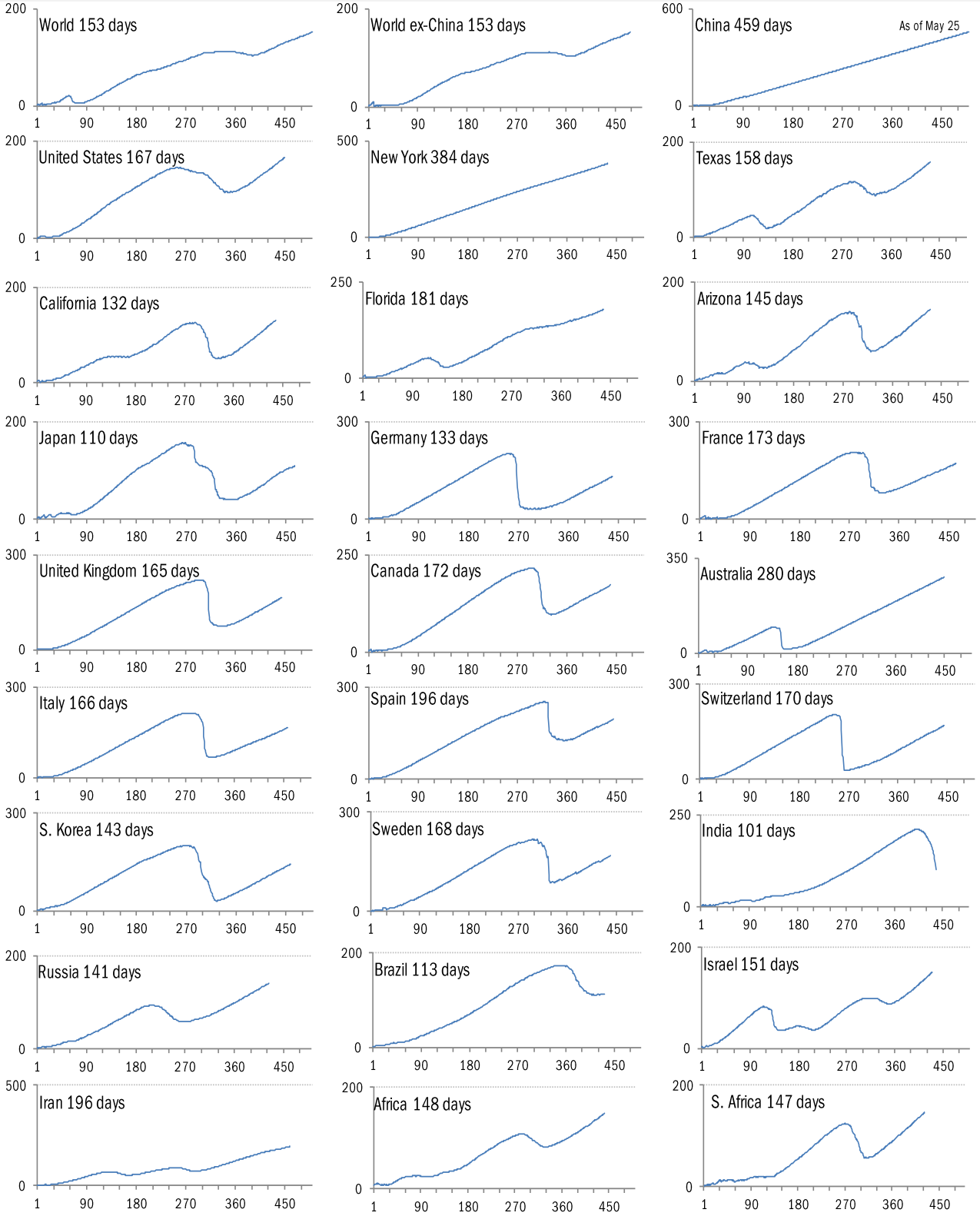


Source: Johns Hopkins, TrendMacro calculations

"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

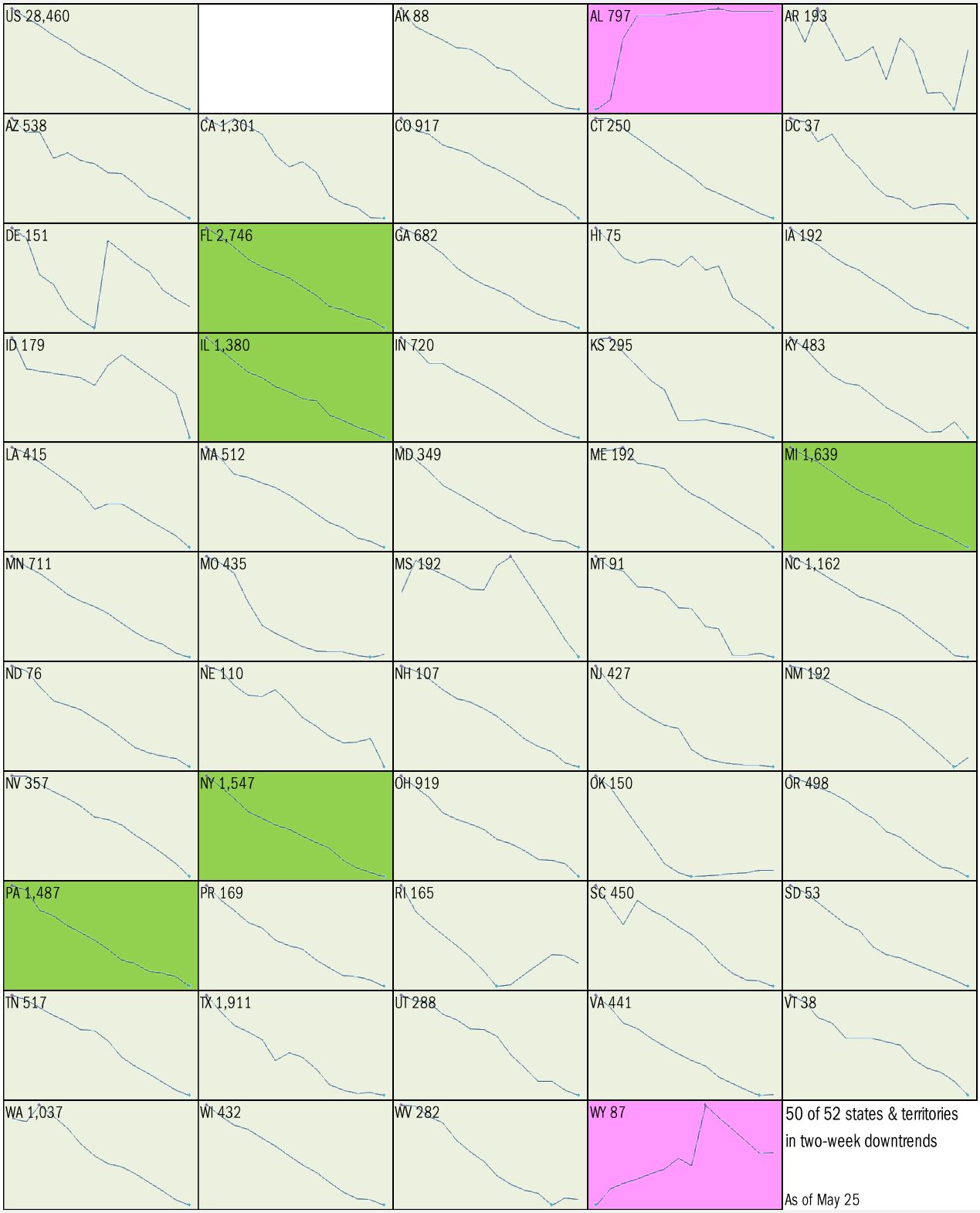


Source: Johns Hopkins, TrendMacro calculations

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

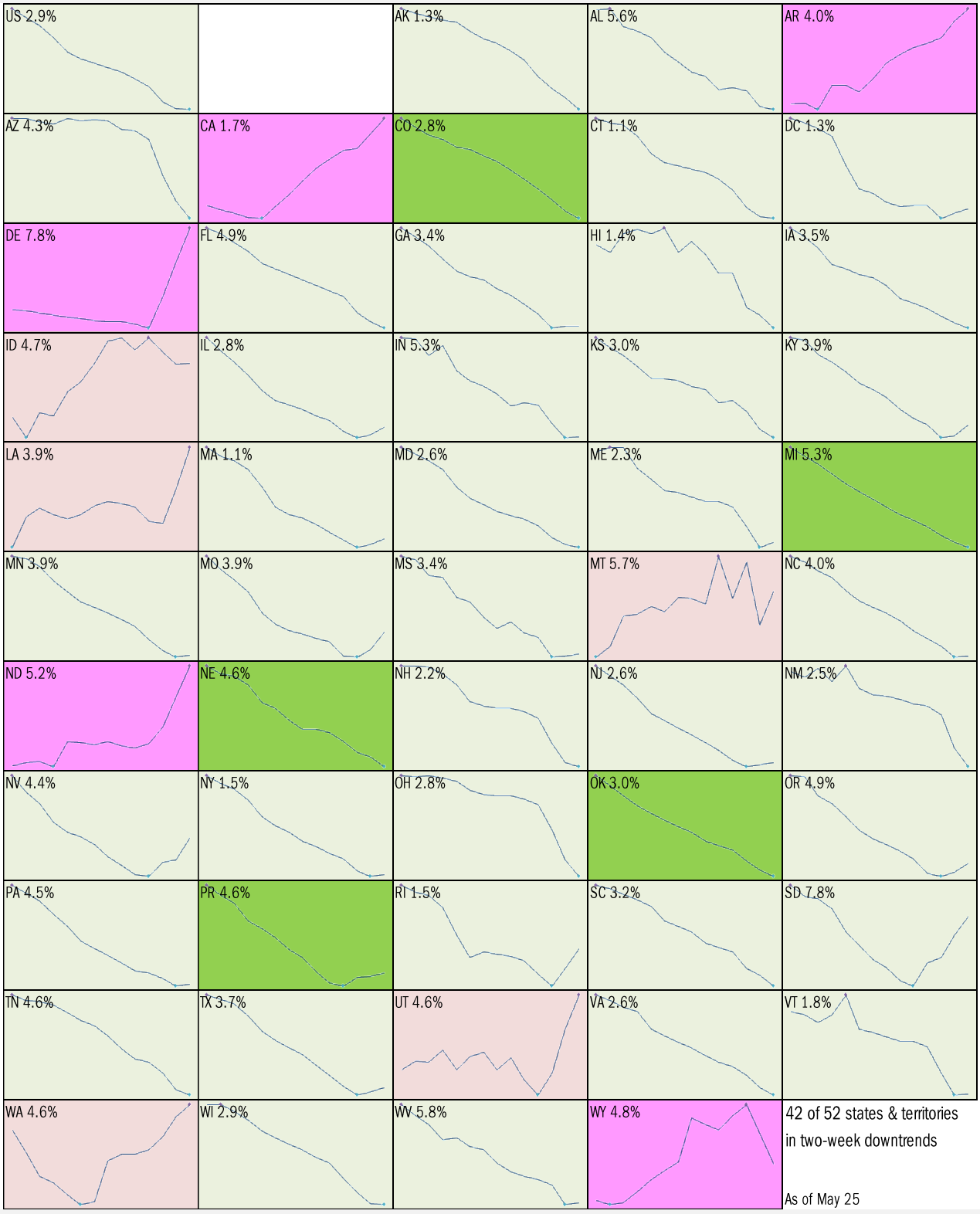


Source: Johns Hopkins, TrendMacro calculations

Alt requirement to Open Up America Again: 14-day "downward trajectory" in pos tests

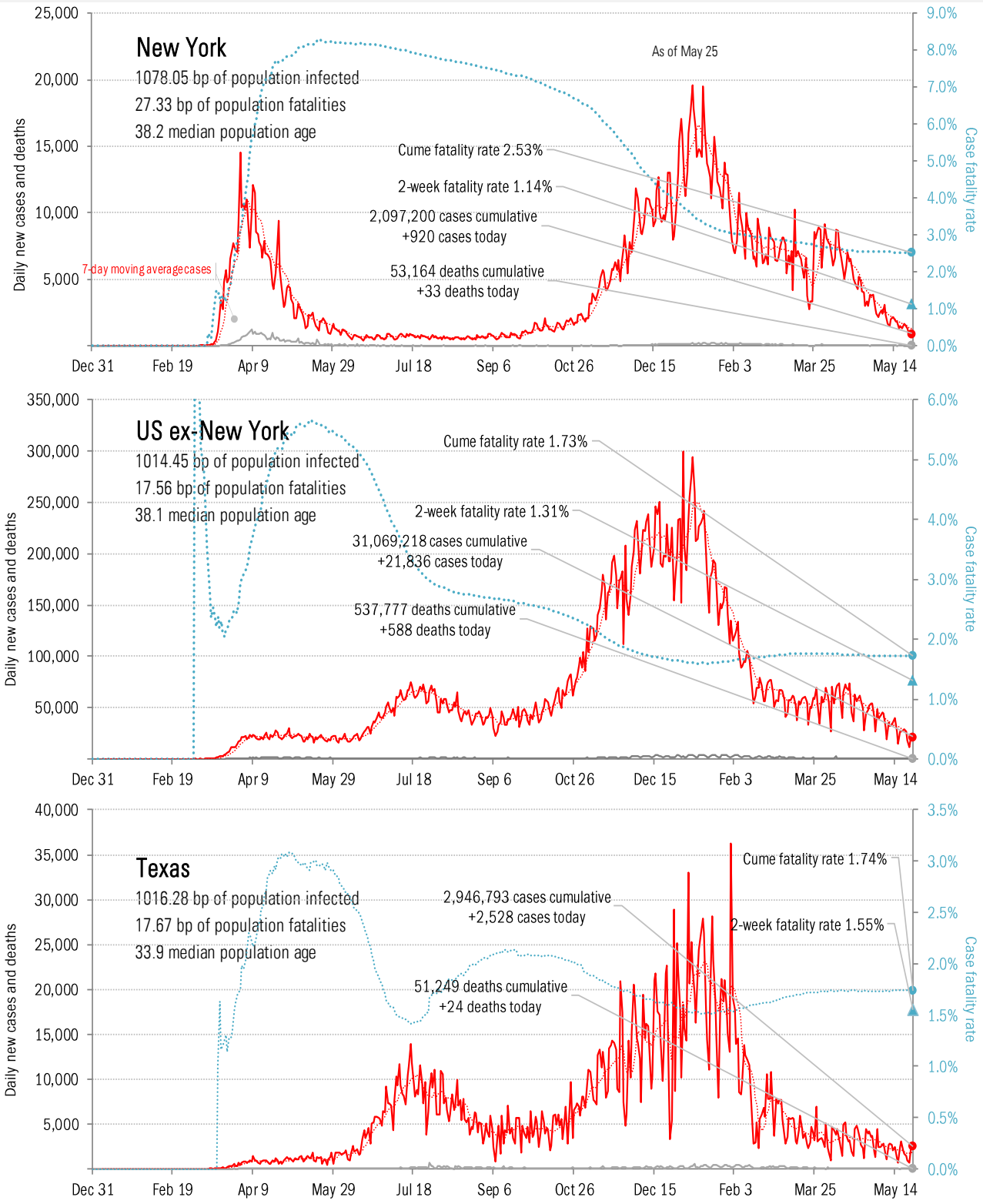
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst



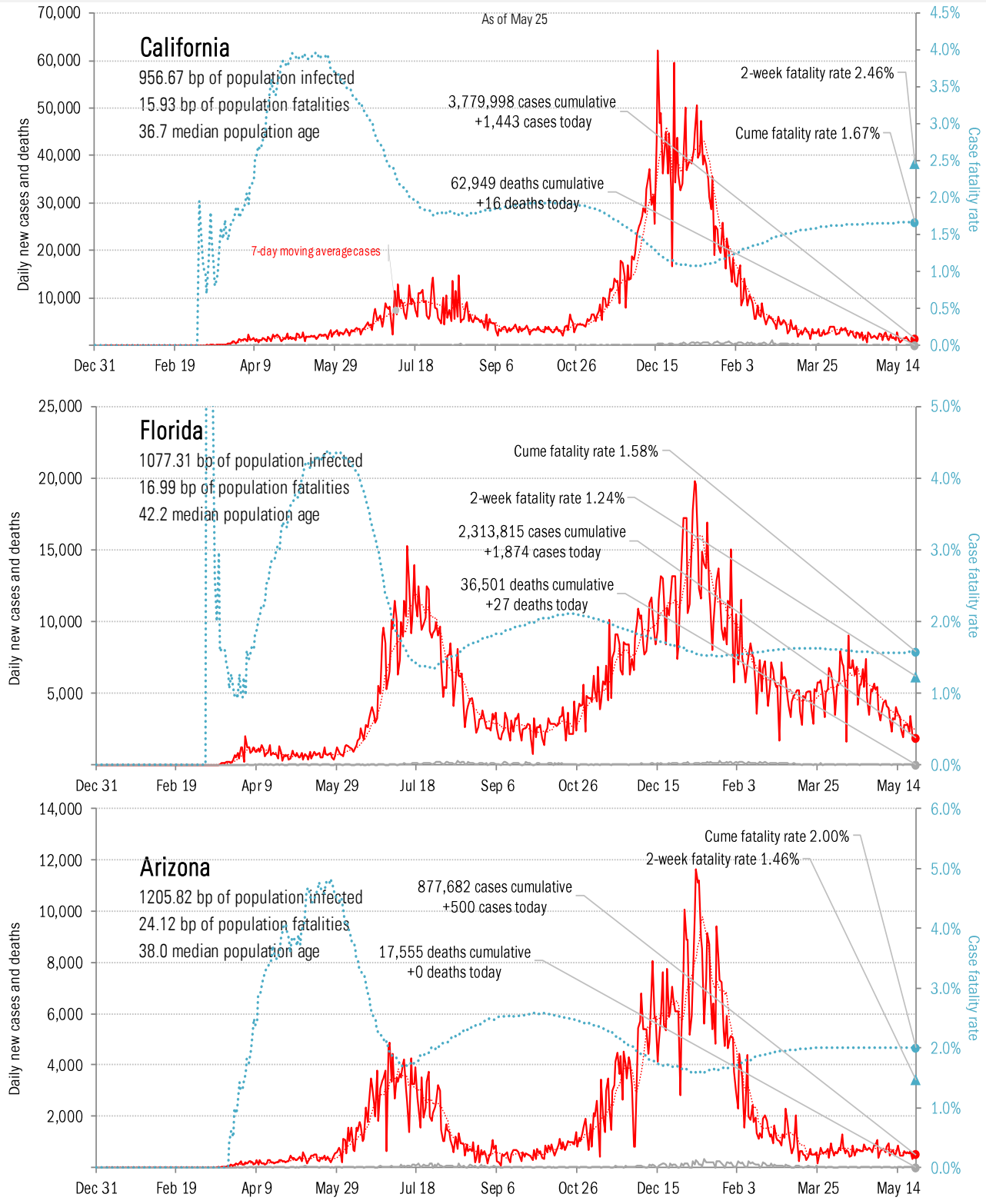
Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande



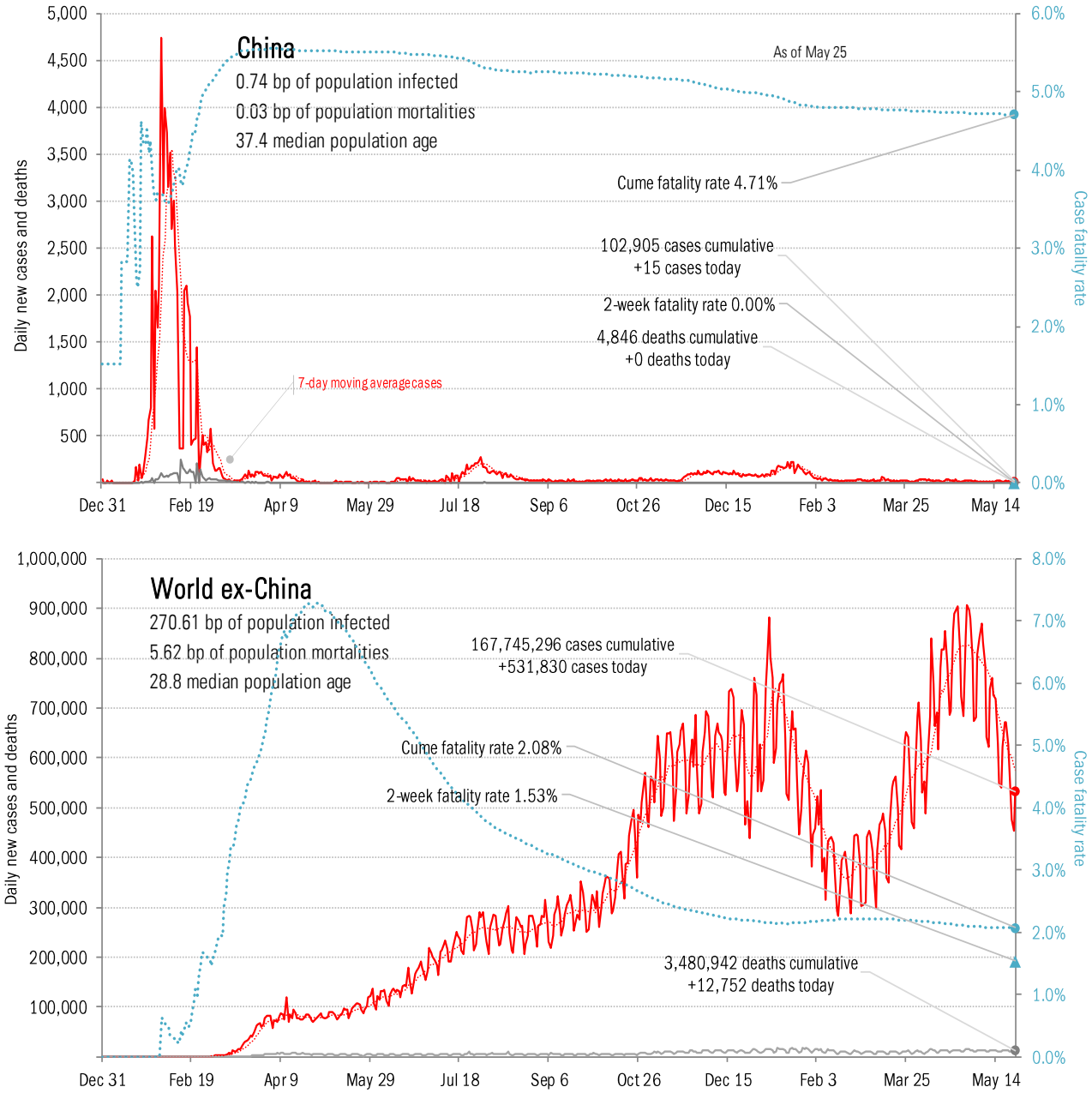
Source: Johns Hopkins, TrendMacro calculations

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



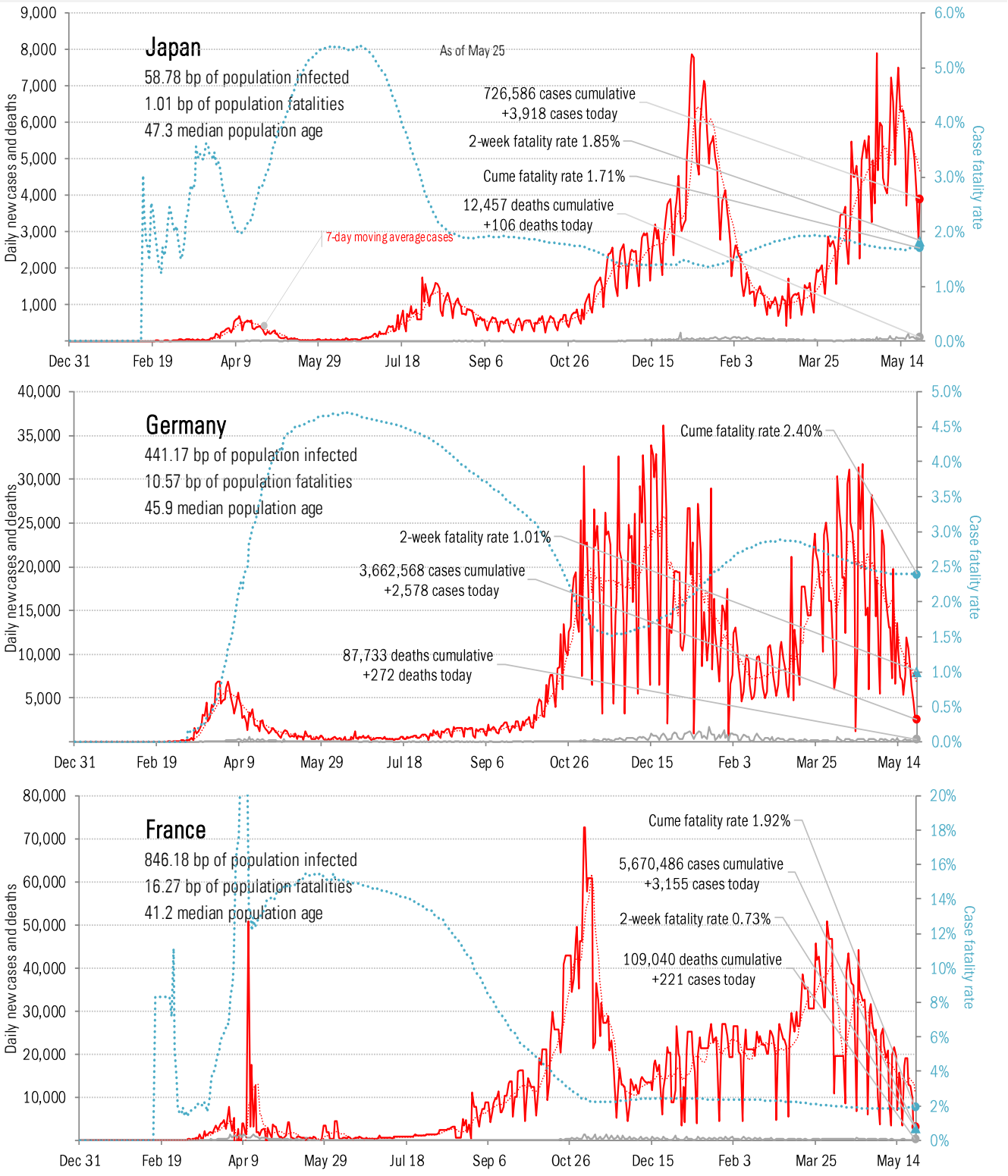
Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else



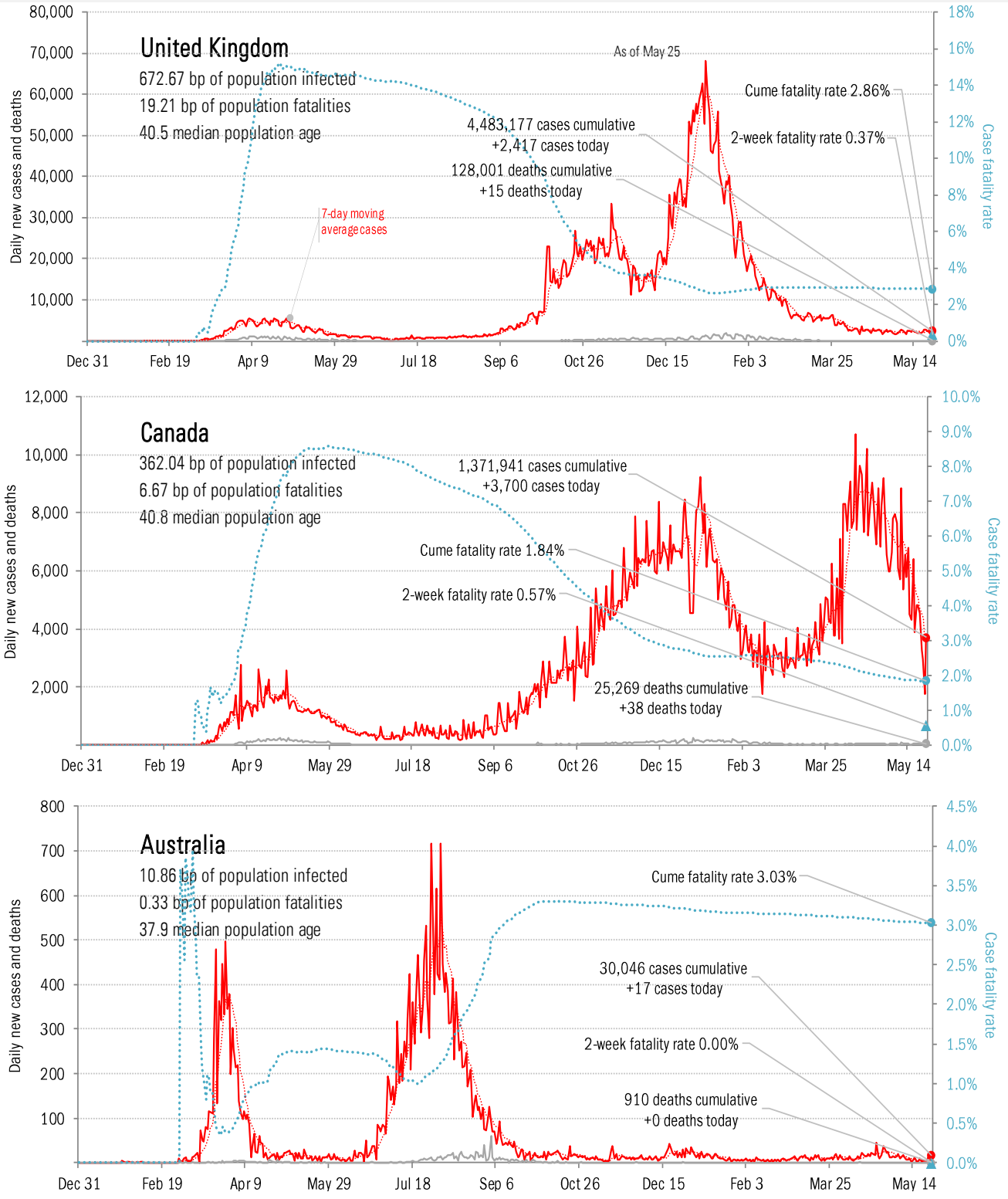
Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies



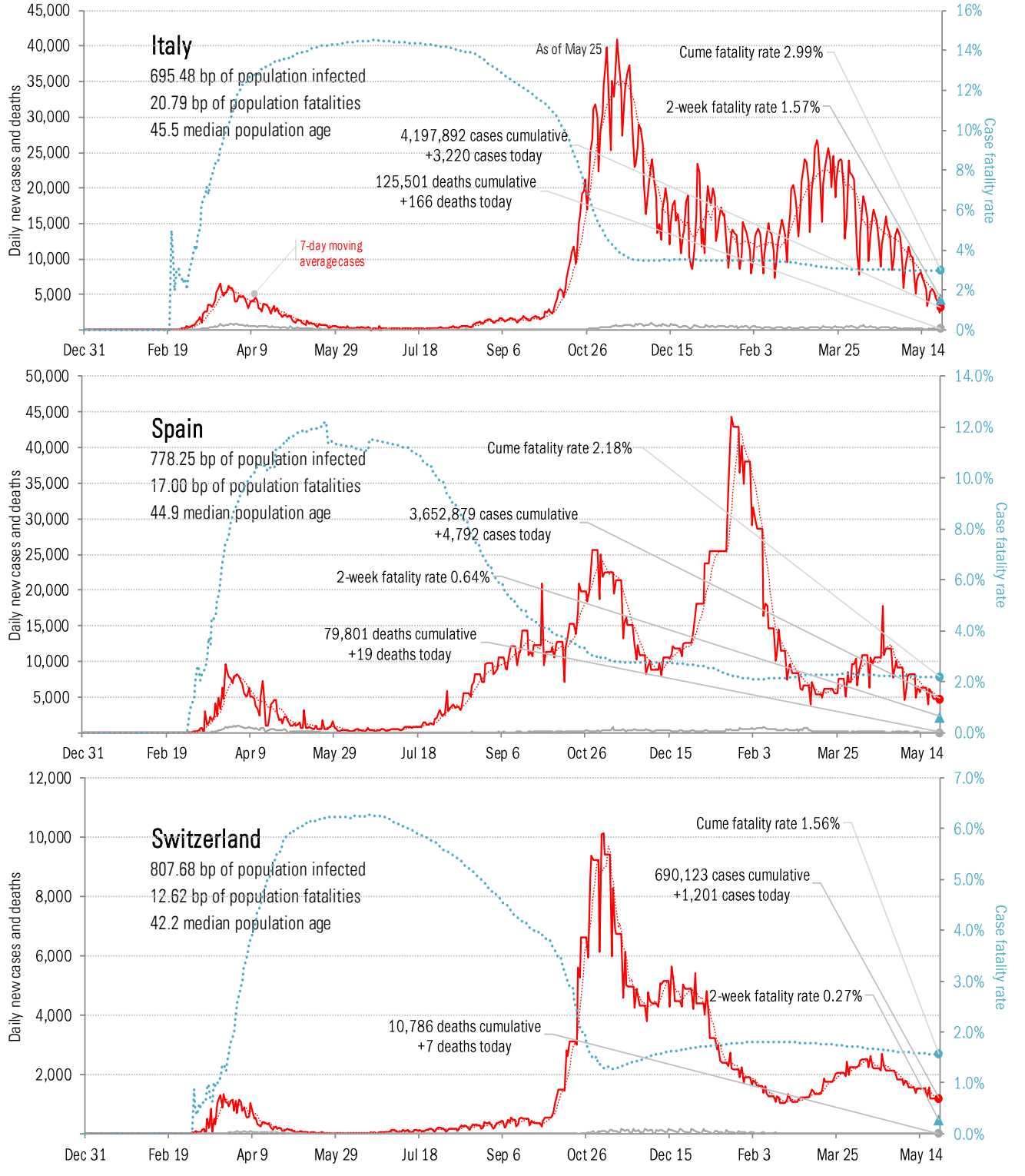
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



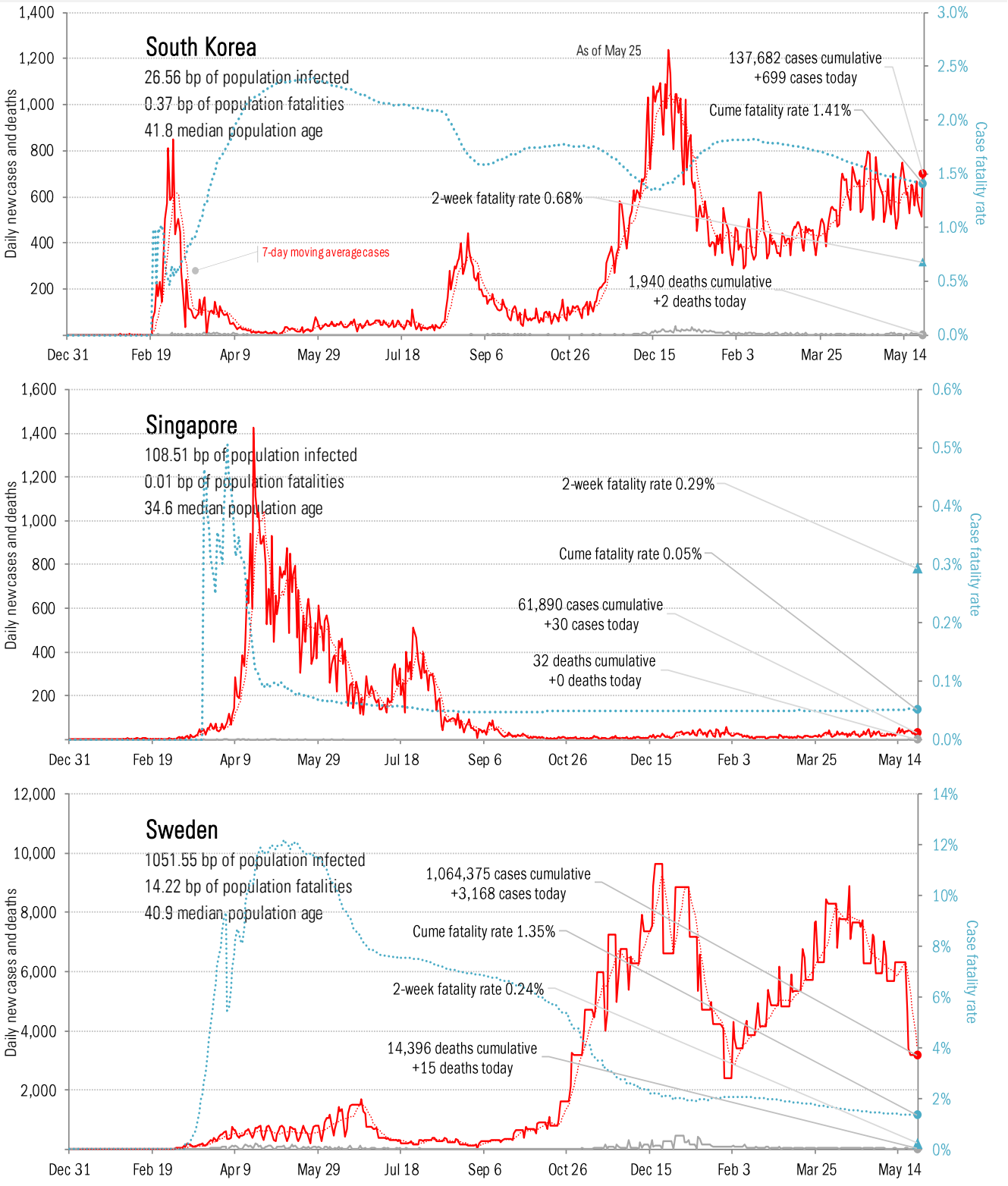
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



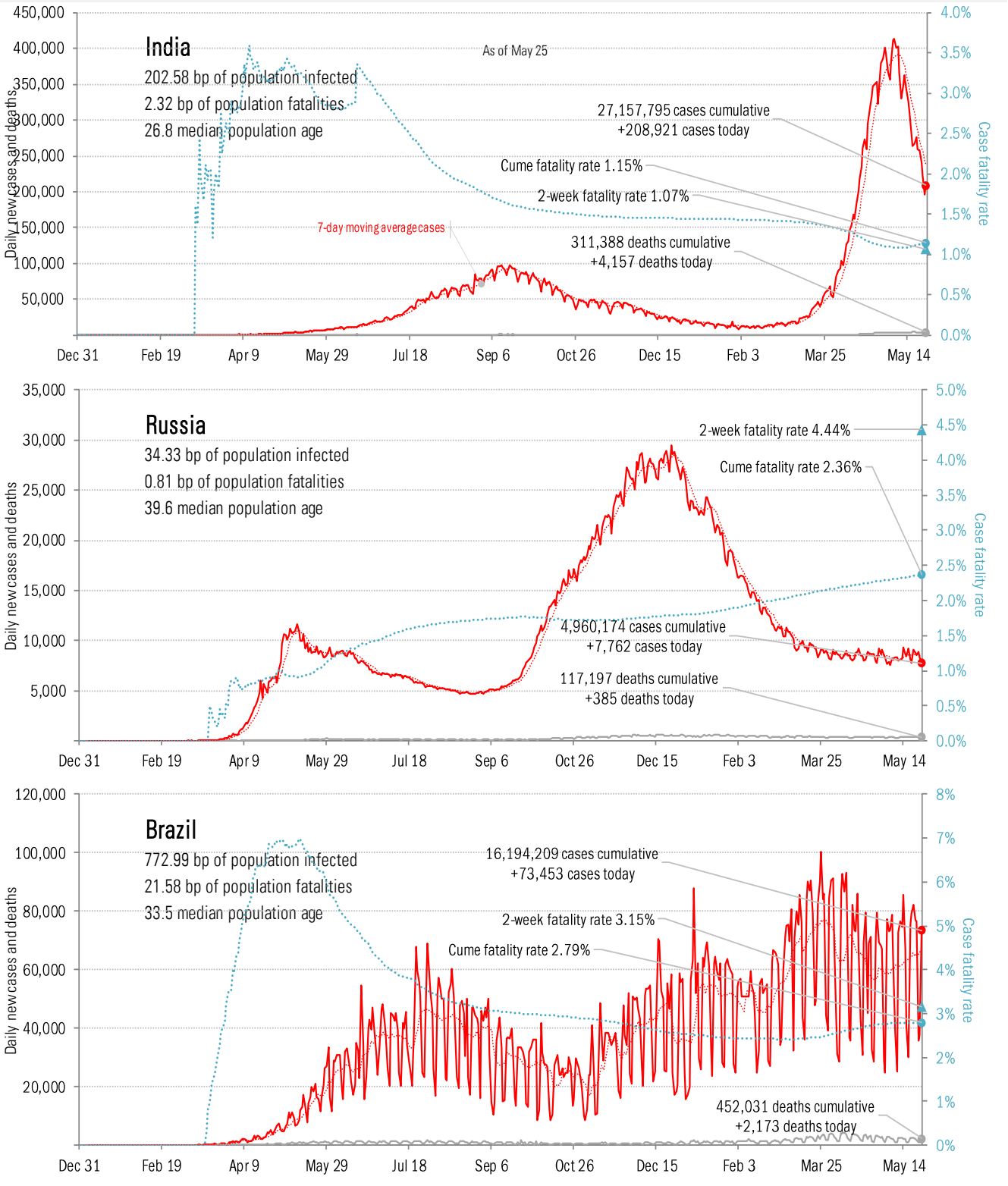
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



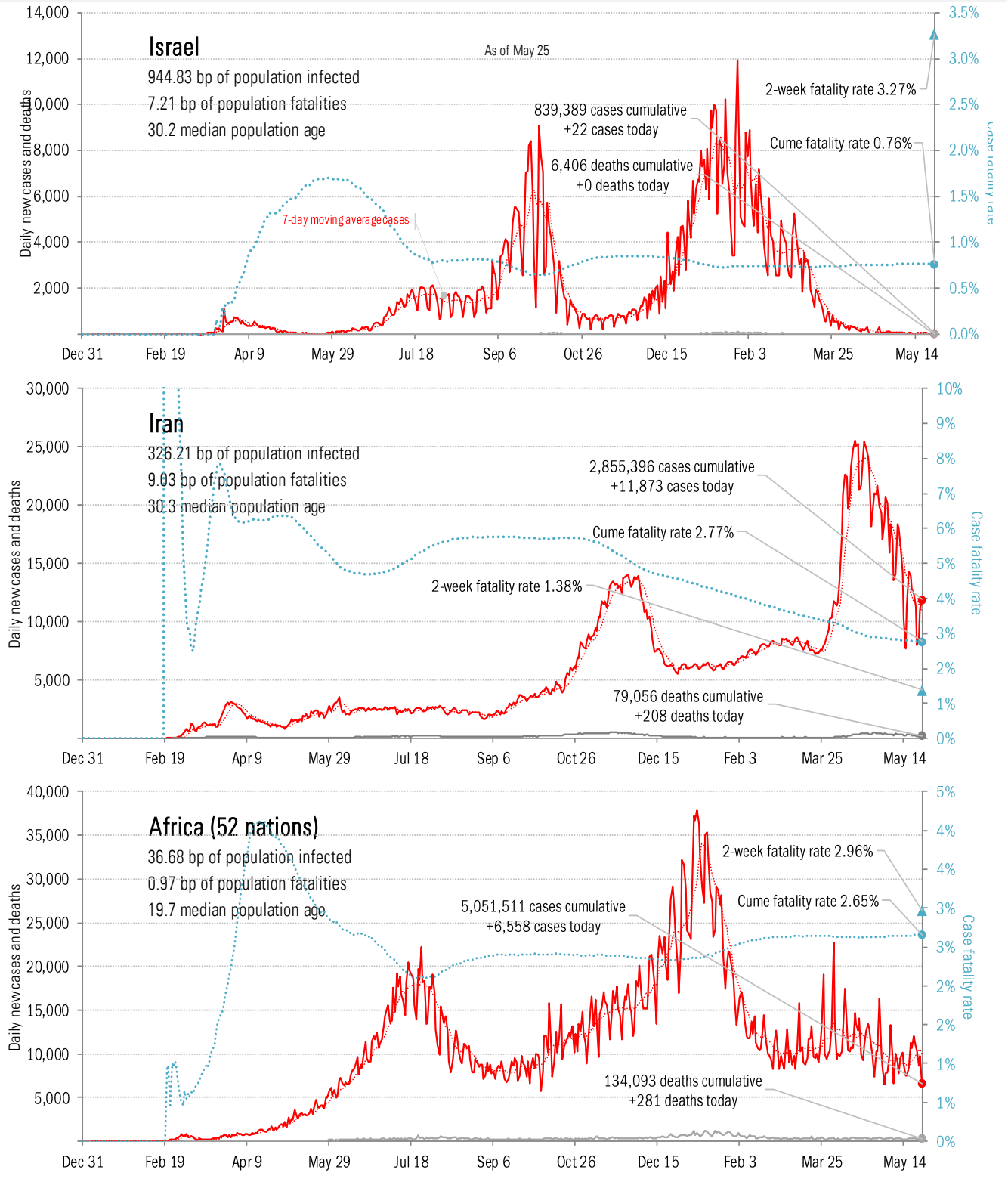
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



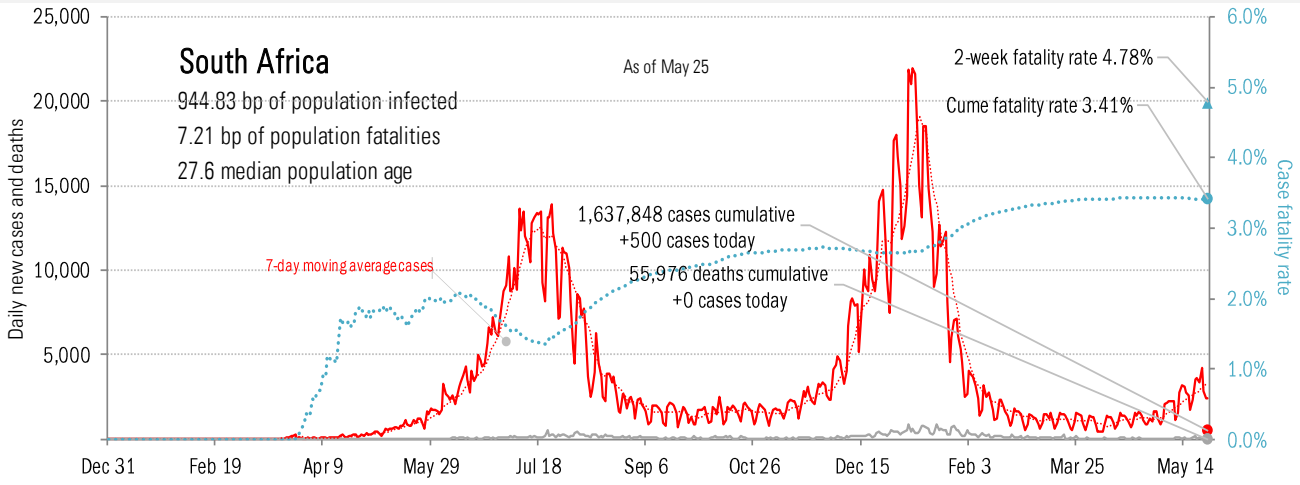
Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued



Source: Johns Hopkins, TrendMacro calculations