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

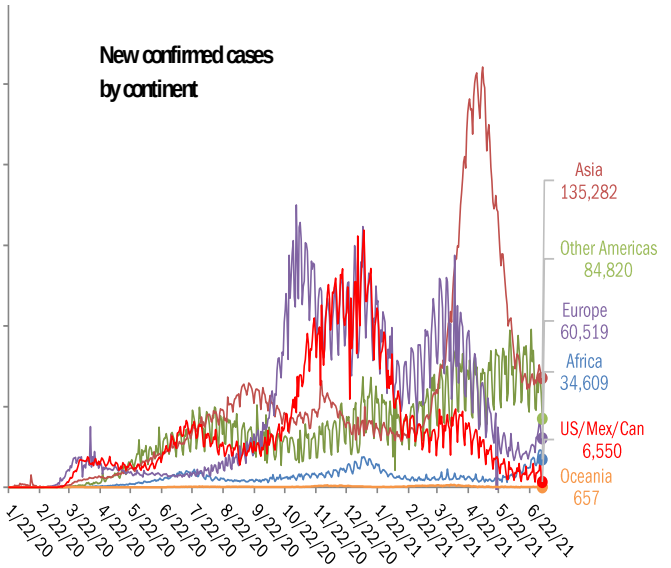
Data Insights: Covid-2019 Monitor

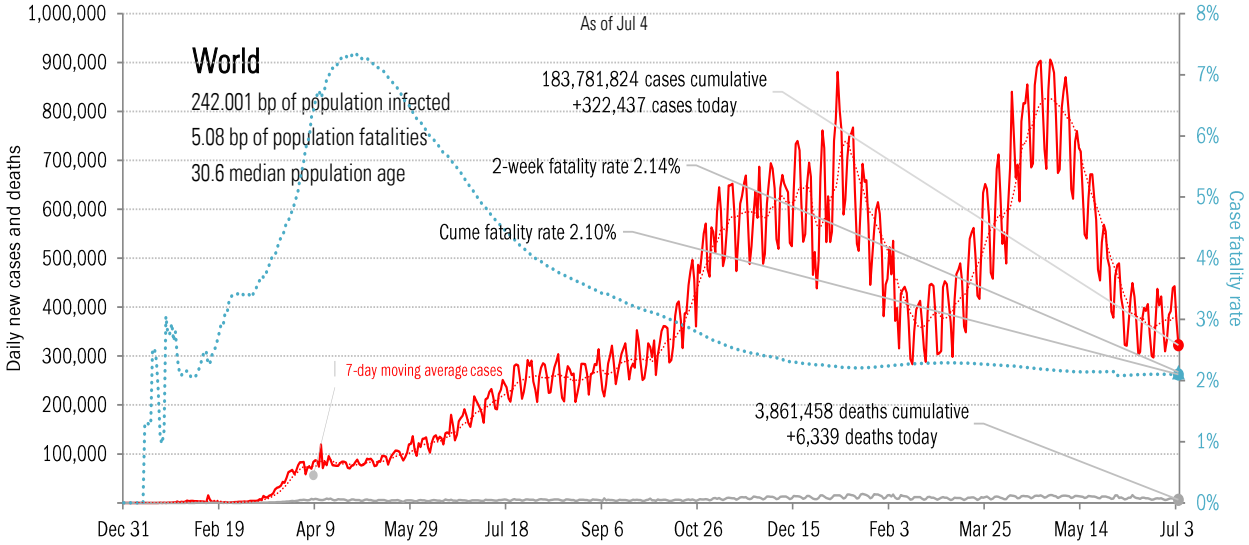
Monday, July 5, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+39,796	Brazil	+830
Brazil	+27,783	India	+723
Indonesia	+27,233	Russia	+650
Colombia	+26,265	Colombia	+582
Russia	+24,693	Indonesia	+555
United Kingdom	+23,896	Peru	+543
South Africa	+16,585	South Africa	+333
Iran	+13,781	Argentina	+310
Argentina	+9,000	Iran	+165
Bangladesh	+8,661	Bangladesh	+153
	+217,693		+4,844
World	+322,437	World	+6,339
Top ten	68%	Top ten	76%





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

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The US scorecard

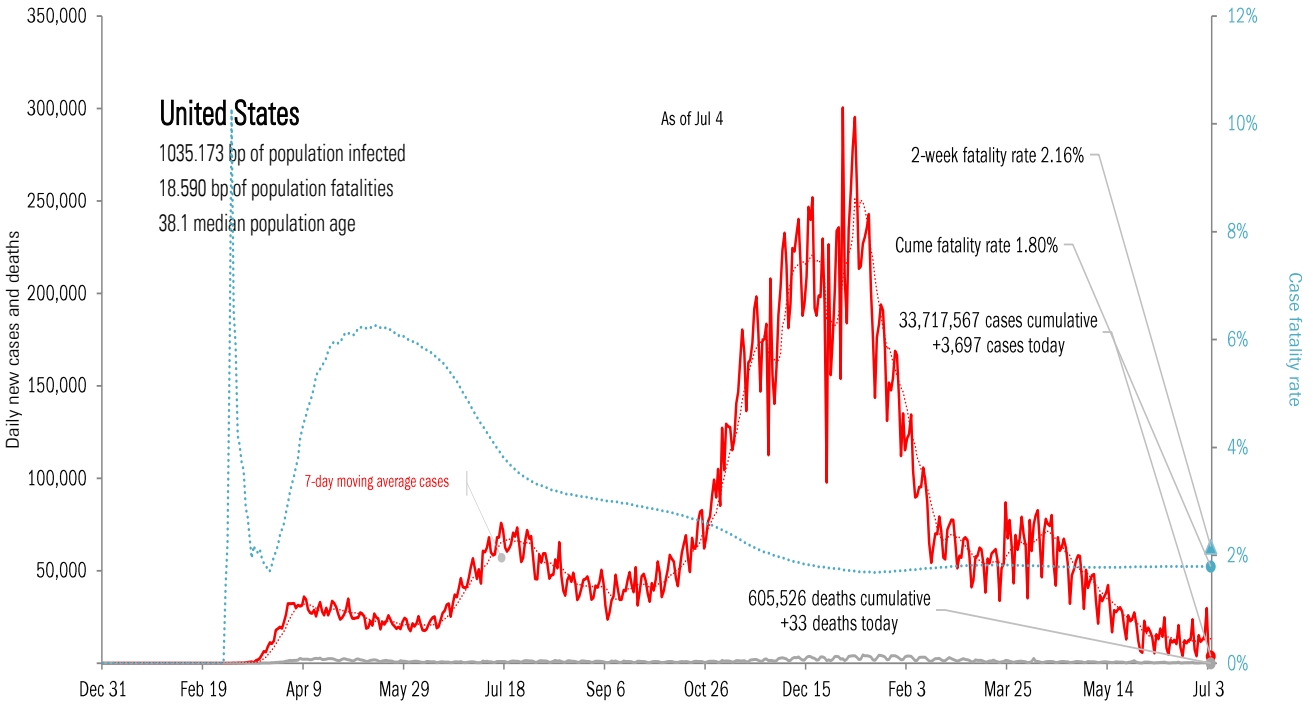
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	+2,241	FL	+28	TX	+57	CA	3,820,921	CA	63,650	TX	255,227	RI	92%	MO	18%
MO	+1,258	NY	+9	FL	+53	TX	3,004,684	NY	53,701	CA	241,196	MA	84%	AR	15%
CA	+479	TX	+9	NV	+41	FL	2,377,700	TX	52,482	FL	188,774	AL	84%	UT	14%
AZ	+442	AZ	+4	CA	+28	NY	2,116,516	FL	37,988	NY	136,755	MO	82%	NV	11%
NY	+350	VA	+4	NY	+21	IL	1,392,552	PA	27,706	GA	109,737	MD	82%	WA	9%
CO	+262	CO	+3	AZ	+16	PA	1,217,389	NJ	26,473	PA	91,888	PA	82%	TX	9%
TX	+219	MO	+2	GA	+9	GA	1,135,526	IL	25,678	OH	88,127	WV	79%	CO	8%
VA	+168	PA	+2	WA	+9	OH	1,112,289	GA	21,443	IL	82,815	CT	79%	AK	8%
NJ	+112	NJ	+1	MO	+8	NJ	1,024,225	MI	21,009	KY	78,415	MI	78%	FL	7%
PA	+101	AK	+0	NE	+8	NC	1,014,359	OH	20,344	MI	73,305	MN	78%	NM	7%
	+5,632		+62		+250		18,216,161		350,474		1,346,239				
All states	+5,938		+61		+145	All states	33,717,567		605,526		2,398,355	All states	70%		67%
Top ten	95%		102%		172%	Top ten	54%		58%		56%	Median	72%		4%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-968	TX	-11	LA	-53	WI	+40 bp
CA	-301	AZ	-10	OK	-25	PR	+30 bp
AZ	-203	CO	-9	NJ	-20	NJ	+21 bp
OH	-201	PA	-7	KY	-19	AK	+20 bp
CO	-190	MO	-6	CA	-17	CA	+20 bp



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

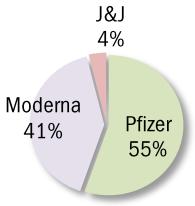
Rolling out the vaccines in the US and the world

US overall	Total				Today
Doses distributed	395,672,025				+0.001 million
Doses administered	340,325,273				+0.668 million
Administered	**One dose**	**% Pop**	**Immune**	**% pop**	**New immune today**
Total population	187,111,682	56%	161,509,666	48%	+0.351 million
Age 12 to 17	9,070,534	36%	6,937,416	27%	+0.068 million
Age 18 to 64	127,842,788	63%	109,901,551	54%	+0.248 million
Age 65 and over	49,975,547	91%	44,542,756	81%	+0.035 million

Immunity	Full	Partial
US	47.0%	54.5%
UK	49.5%	66.7%
France	31.2%	50.3%
Spain	39.5%	55.5%
Germany	38.6%	56.1%
Italy	33.2%	57.5%
Australia	7.3%	24.9%
Israel	59.8%	65.2%
Canada	35.0%	68.6%
Japan	13.8%	25.0%
Africa	1.2%	2.7%
India	4.6%	20.6%
Brazil	13.0%	36.5%

Global data differs from sources, timing

China NA



At today's dosing pace,
every American >18 immune in
211 days
by Jan 30, 2022

59.8% of population >18 immunized
11.5% previously tested positive
71.3% vs 60% adult herd immunity*

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

Best
Middle
Worst

AK			HI			ME		
60.9%			71.7%			72.9%		
49.8%			70.1%			66.7%		
43.8%			52.2%			61.9%		

					WI			VT	NH
					55.4%			78.3%	71.6%
					54.0%			74.2%	62.9%
					50.3%			66.0%	56.7%
WA	ID	MT	ND	MN	IL	MI		NY	MA	
65.1%	49.6%	55.3%	49.5%	61.0%	61.3%	61.4%		65.0%	74.0%	
61.8%	39.8%	48.0%	44.1%	57.3%	59.9%	51.6%		60.5%	70.8%	
55.1%	36.3%	43.2%	39.1%	52.3%	46.6%	47.3%		54.6%	62.1%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
70.6%	53.1%	47.6%	57.7%	57.9%	53.0%	55.9%	65.4%	68.6%	69.9%	74.4%
59.1%	50.2%	39.9%	50.8%	51.6%	45.5%	48.5%	63.1%	63.3%	67.4%	64.9%
54.2%	42.4%	35.4%	45.6%	48.3%	42.6%	45.1%	50.0%	55.7%	61.1%	59.3%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
65.6%	53.1%	64.1%	57.0%	52.6%	53.1%	56.1%	64.0%	73.7%	69.2%	
61.9%	48.9%	58.3%	51.8%	45.4%	49.8%	43.9%	59.5%	62.3%	58.6%	
50.4%	37.5%	52.3%	47.8%	39.4%	43.9%	37.5%	52.3%	56.5%	50.5%	
	AZ	NM	KS	AR	TN	NC	SC	DC		
	58.9%	59.9%	56.0%	50.2%	49.1%	58.9%	54.6%	79.1%		
	50.9%	63.3%	49.5%	42.4%	42.6%	49.0%	44.6%	61.7%		
	43.5%	55.1%	42.3%	34.5%	37.6%	42.1%	39.0%	52.9%		
			OK	LA	MS	AL	GA			
			53.7%	46.4%	47.6%	52.3%	55.7%			
			45.1%	38.7%	36.3%	40.2%	43.7%			
			38.7%	35.3%	29.9%	32.9%	36.8%			
			TX					FL		PR
			58.3%					62.1%		69.0%
			48.5%					54.2%		65.4%
			41.6%					46.4%		56.2%

As of Jul 4

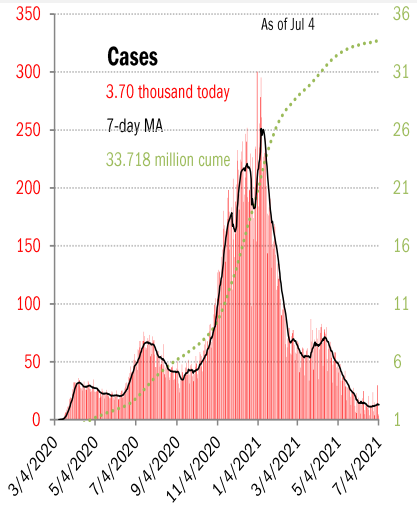
* Includes persons >18 fully immunized or previosuly tested positive, no overlap. Disregards untested positives, natural immunities.

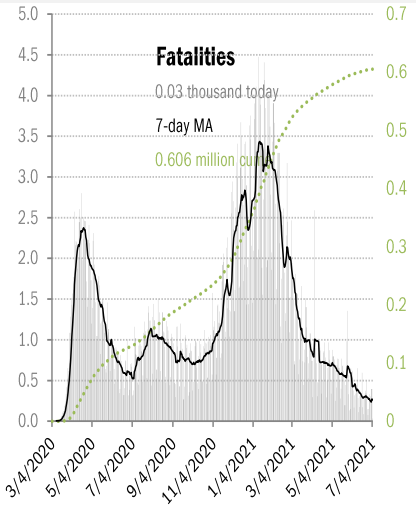
** One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

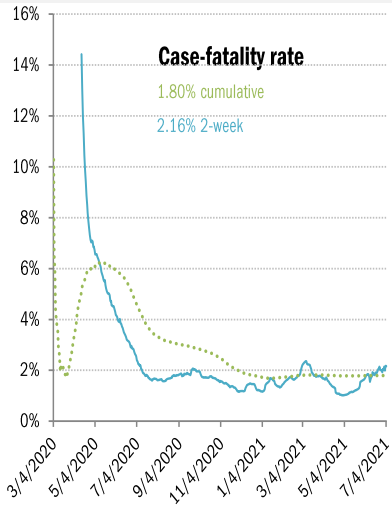
Source: CDC, CDC, Our World in Data, TrendMacro calculations

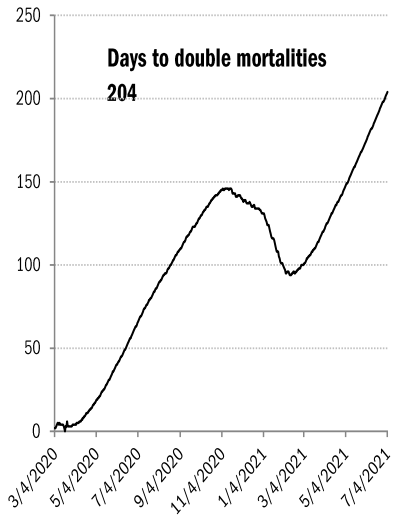
US deep-dive

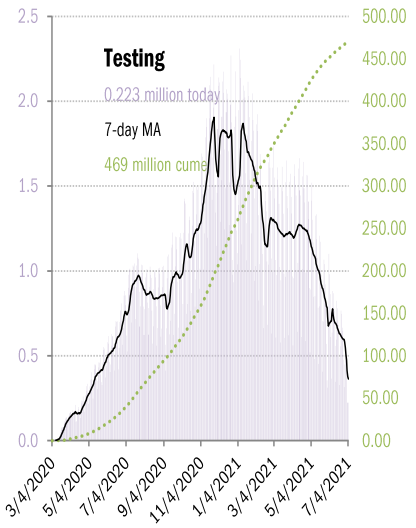
National and state-by-state data do not line up because of different sources

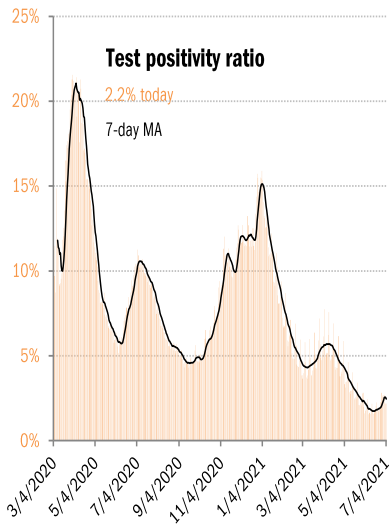


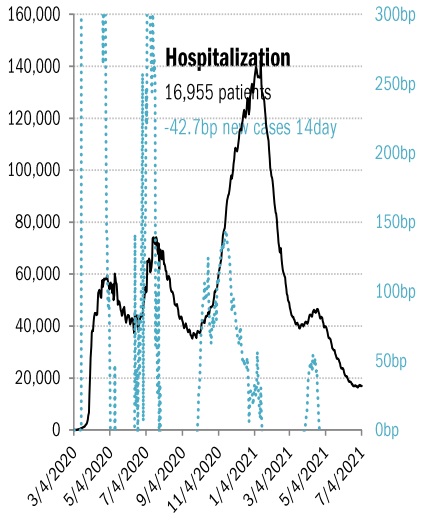


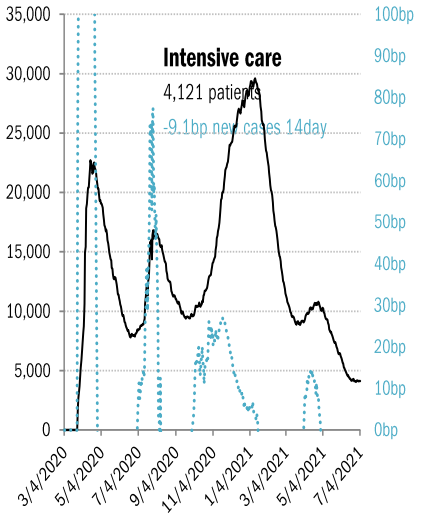


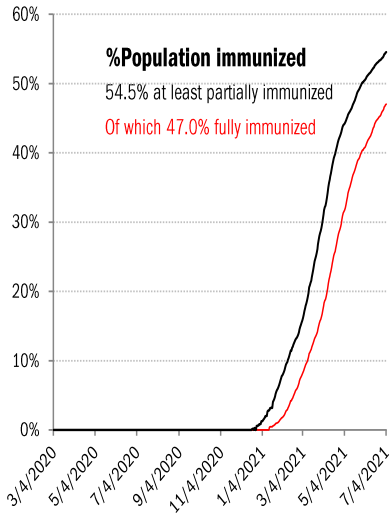












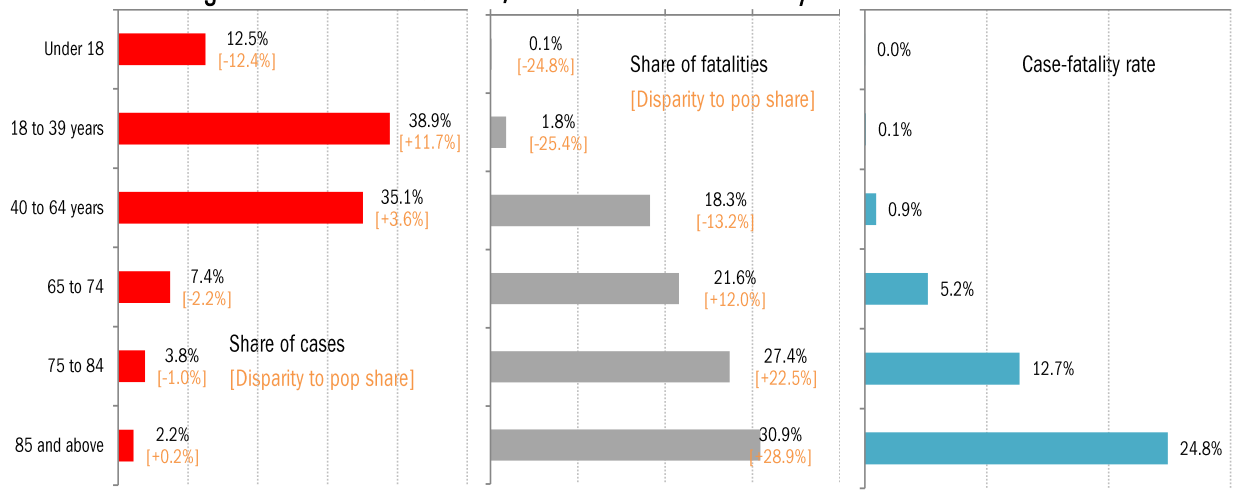
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

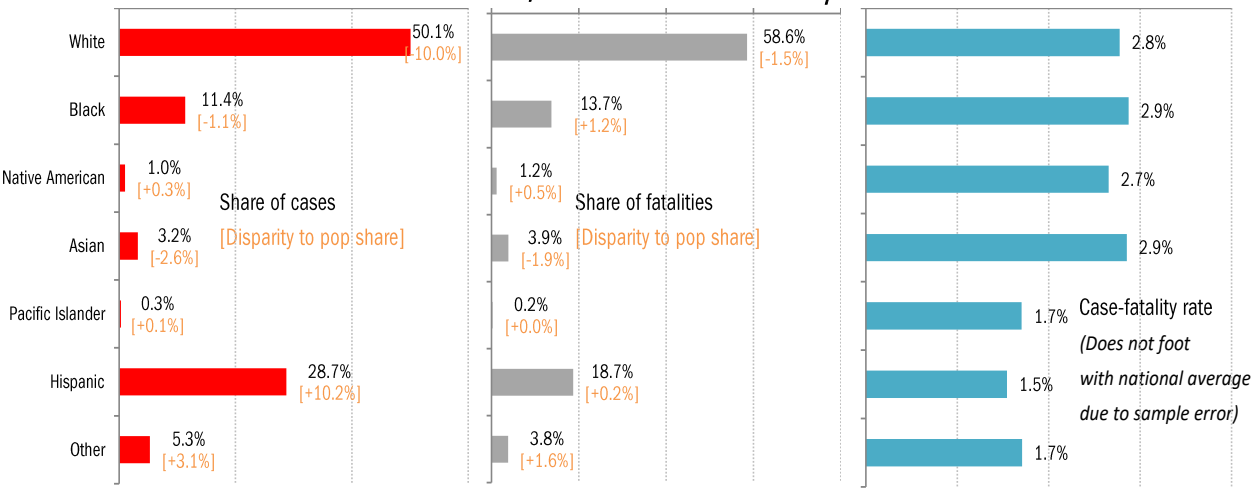
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



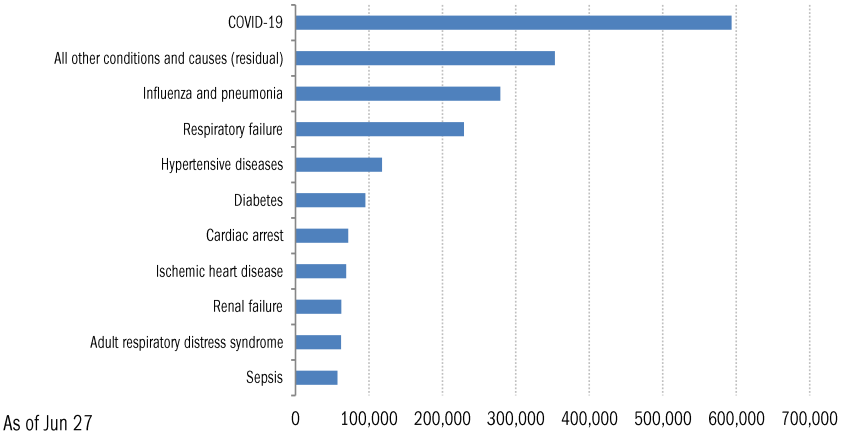
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jun 27

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

As COVID Vaccinations Slow, Parts Of The U.S. Remain Far Behind 70% Goal
Martha Bebinger and Blake Farmer
NPR
July 5, 2021

Should People With Immune Problems Get Third Vaccine Doses?
Apoorva Mandavilli
New York Times
July 4, 2021

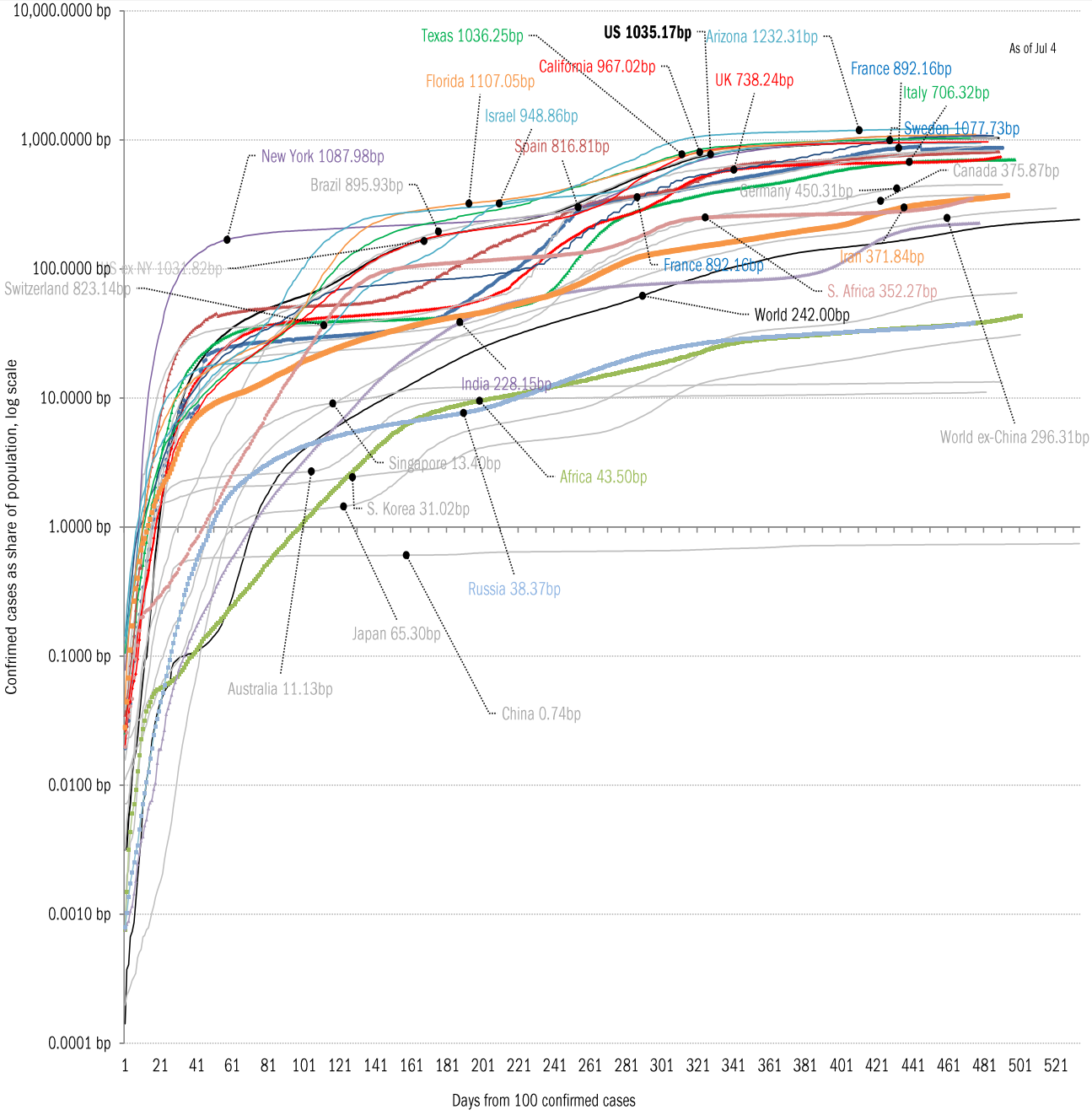
Vacation cancelled: NYC's summer school begins
The Economist
July 5, 2021

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

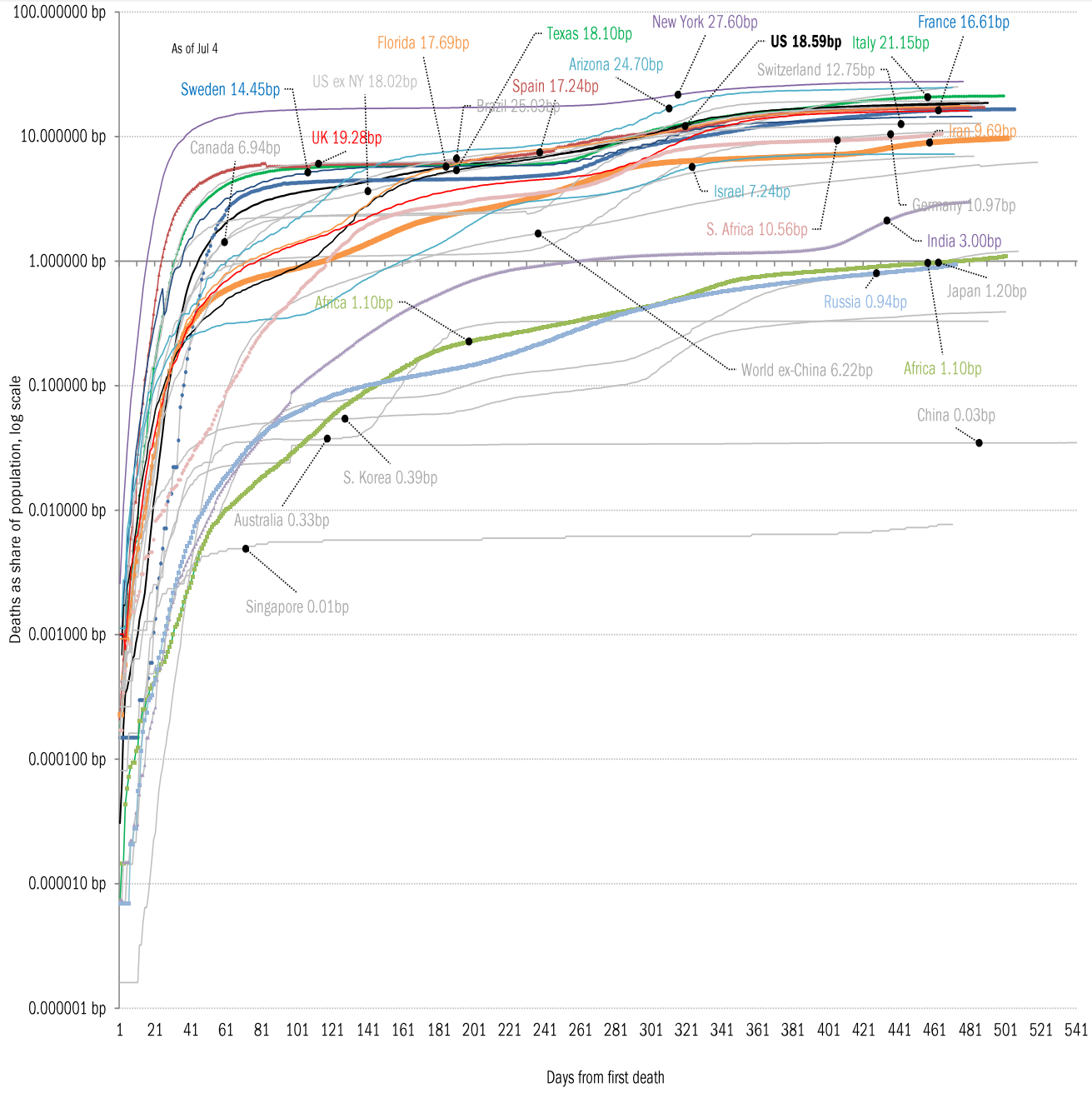
Share of infected population from first day with 100 confirmed cases, log scale



Source: Johns Hopkins, TrendMacro calculations

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

Share of deceased population from day of first fatality, log scale

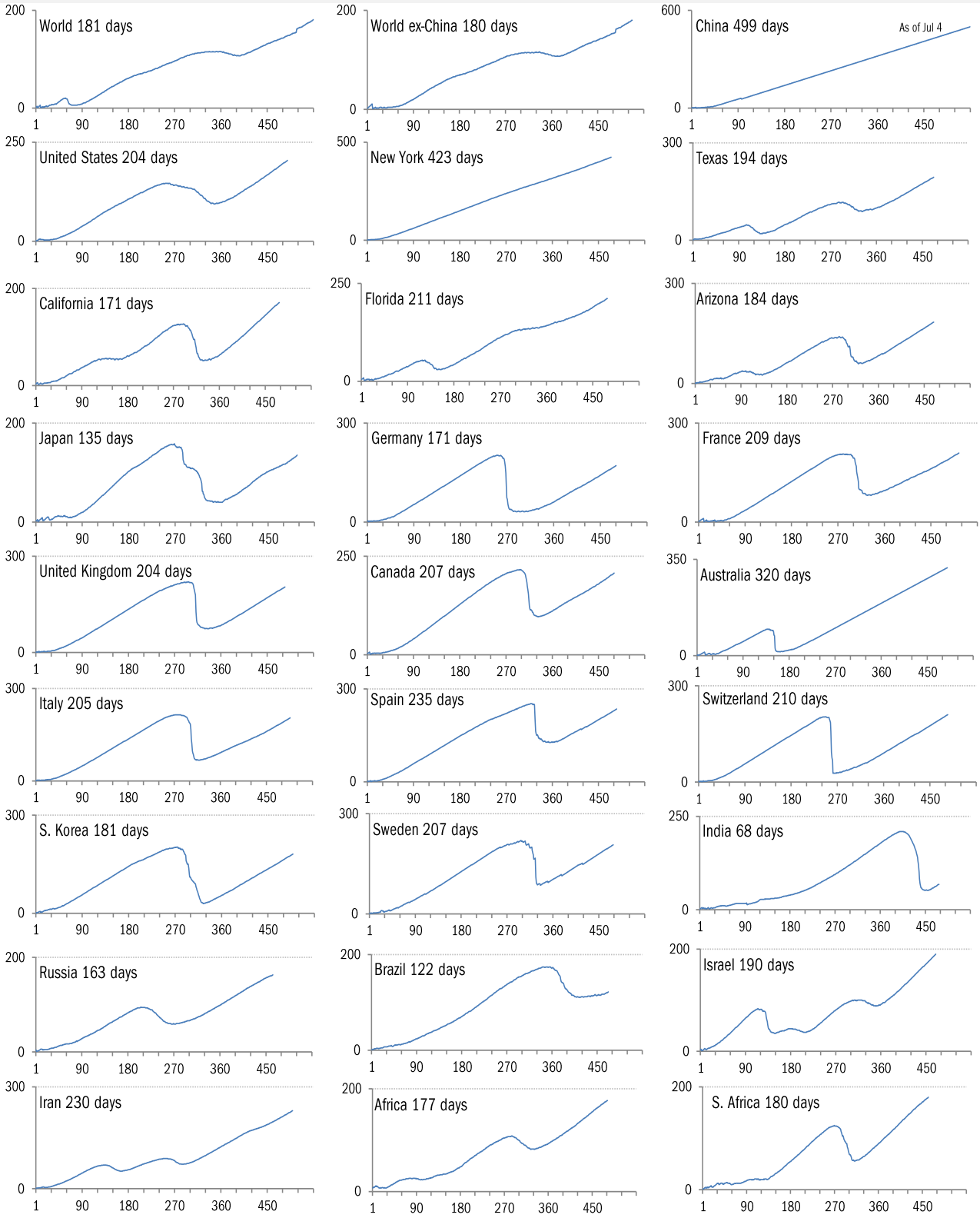


Source: Johns Hopkins, TrendMacro calculations

"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

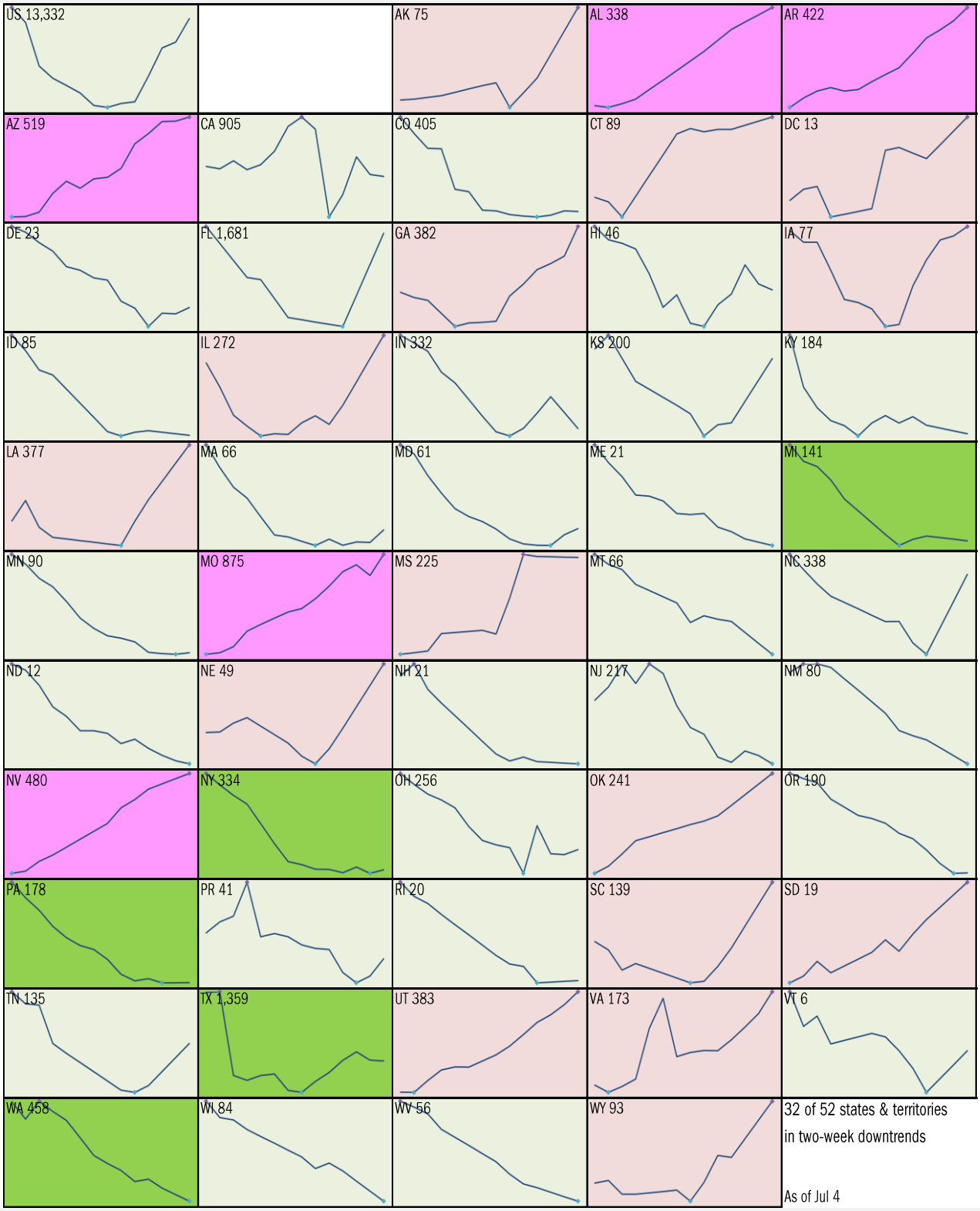


Source: Johns Hopkins, TrendMacro calculations

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

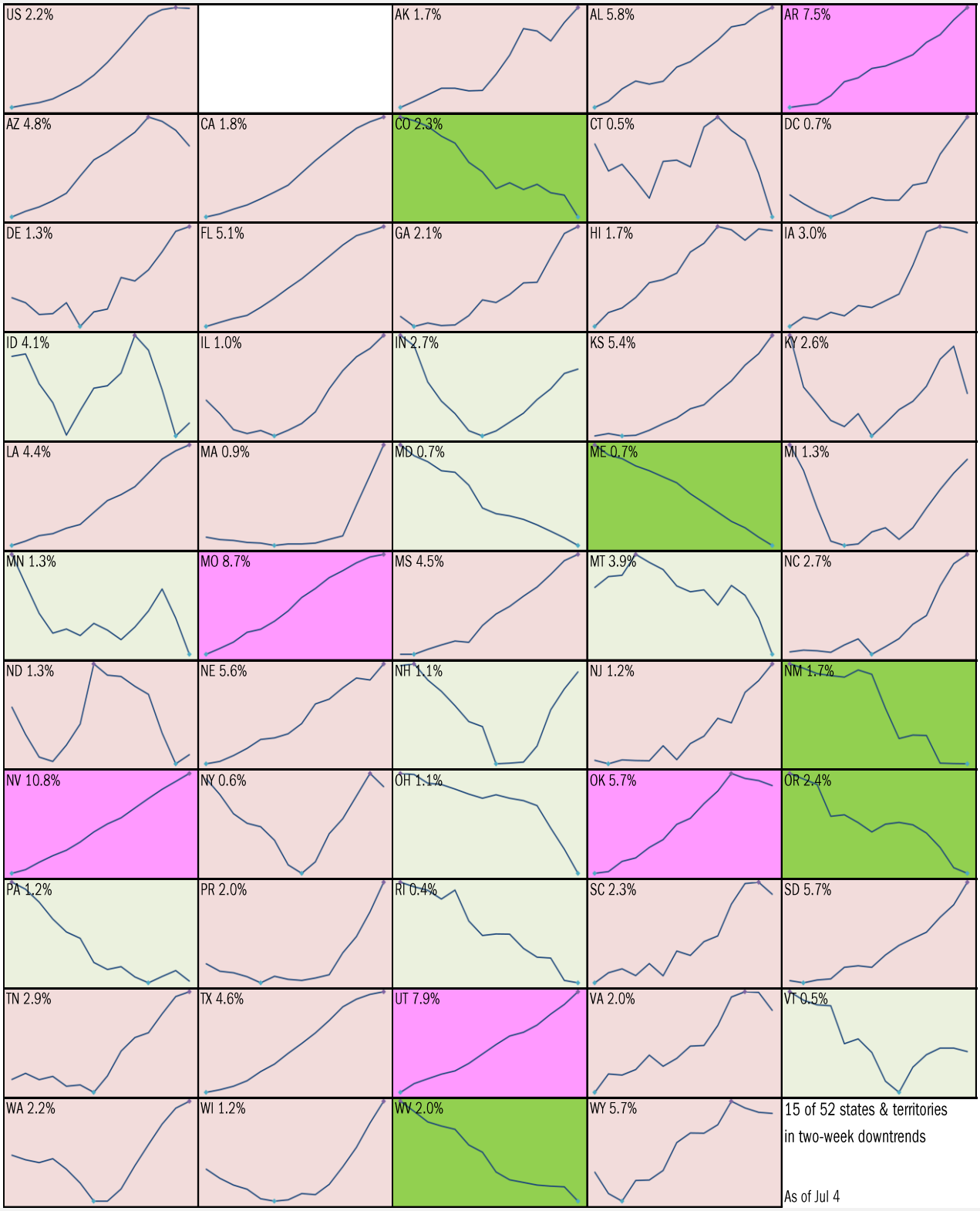


Source: Johns Hopkins, TrendMacro calculations

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

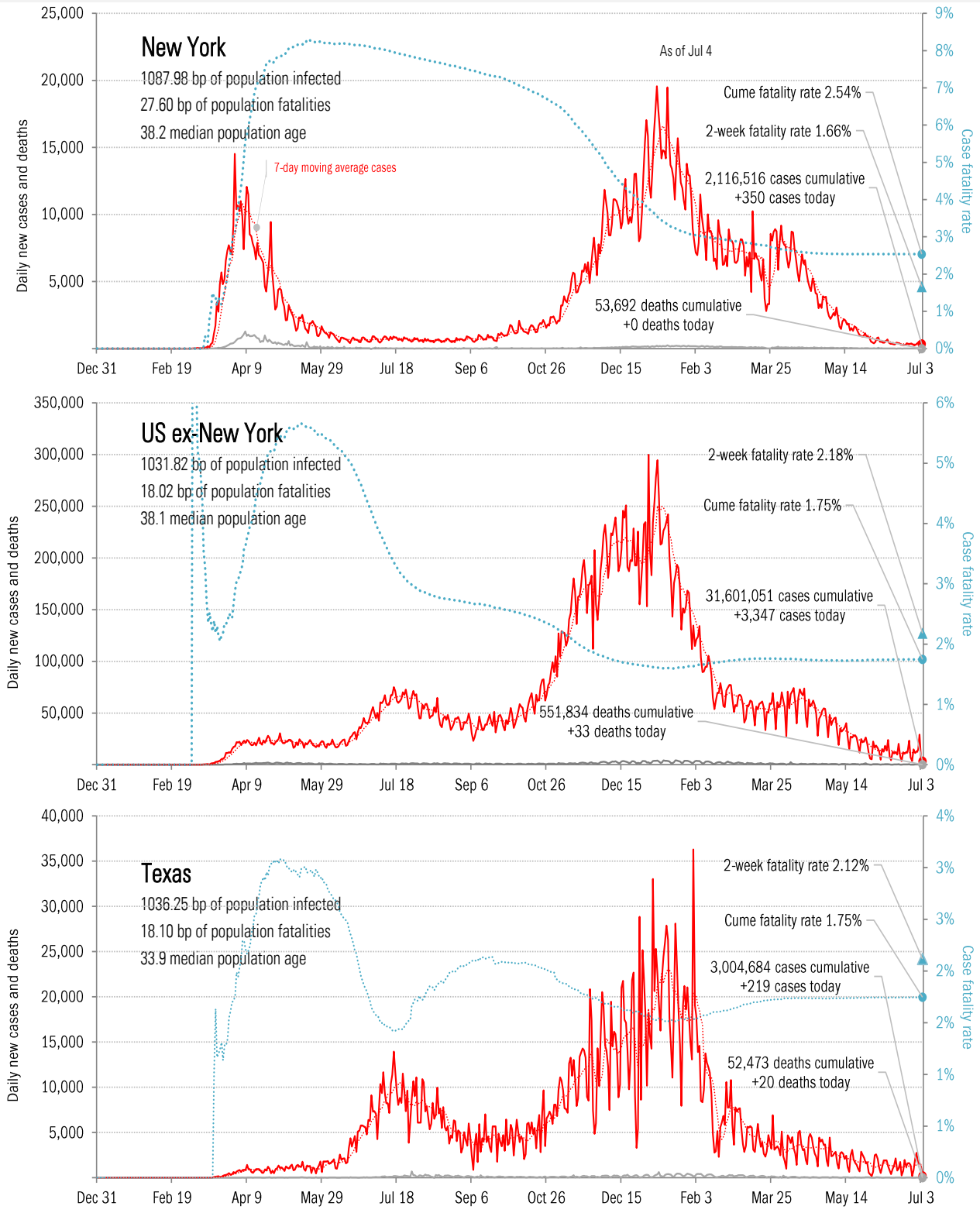
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst



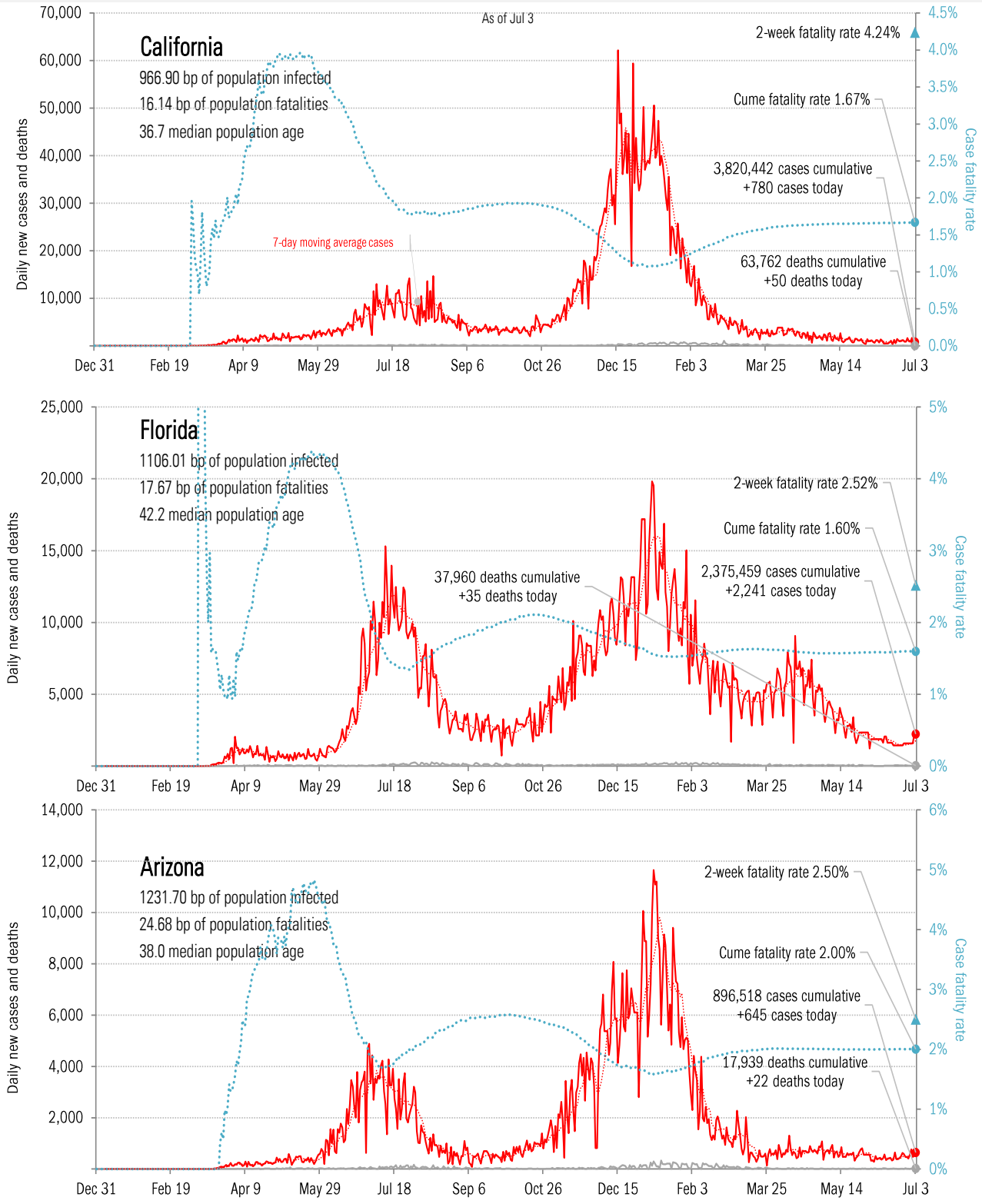
Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande



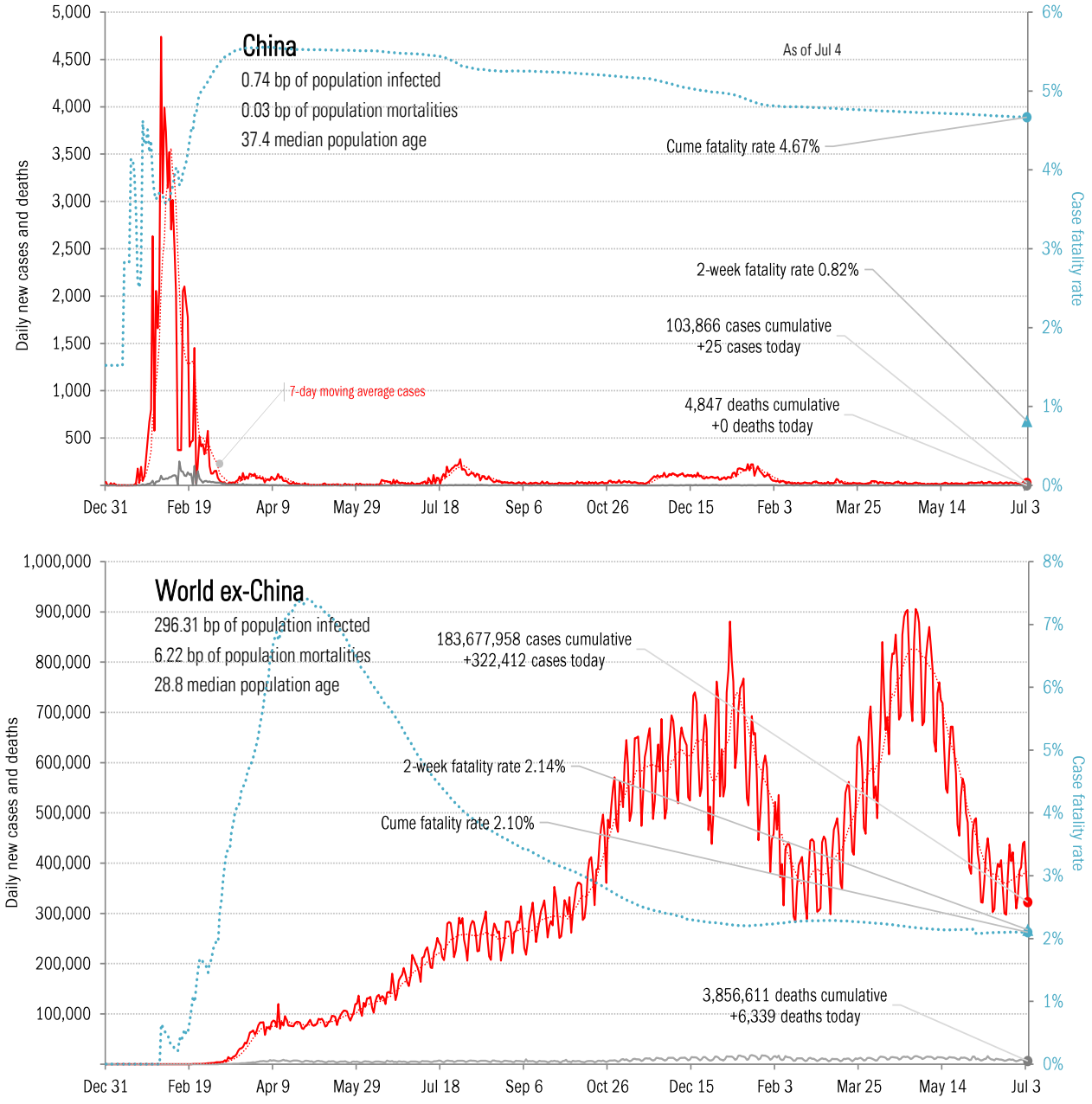
Source: Johns Hopkins, TrendMacro calculations

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



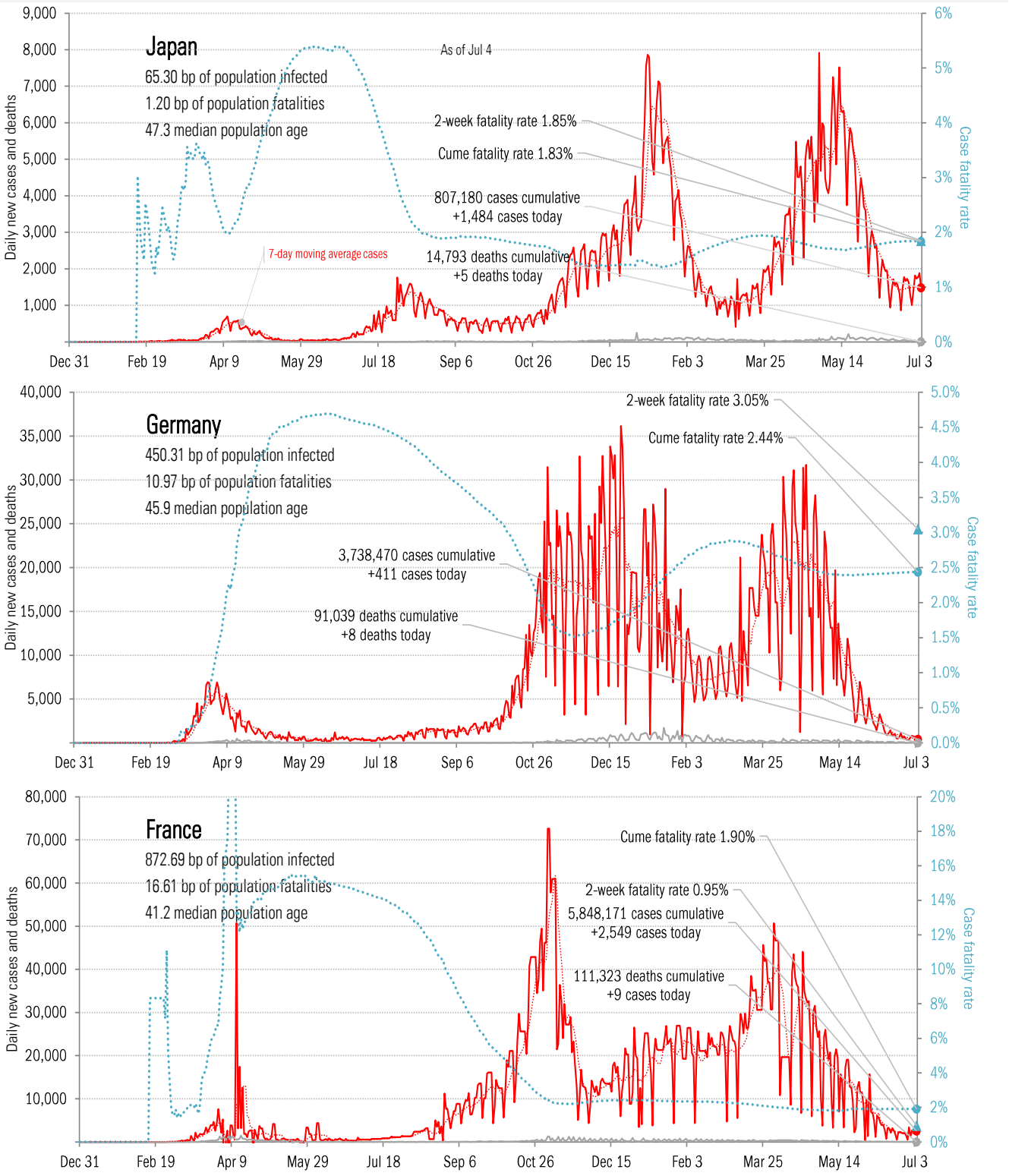
Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else



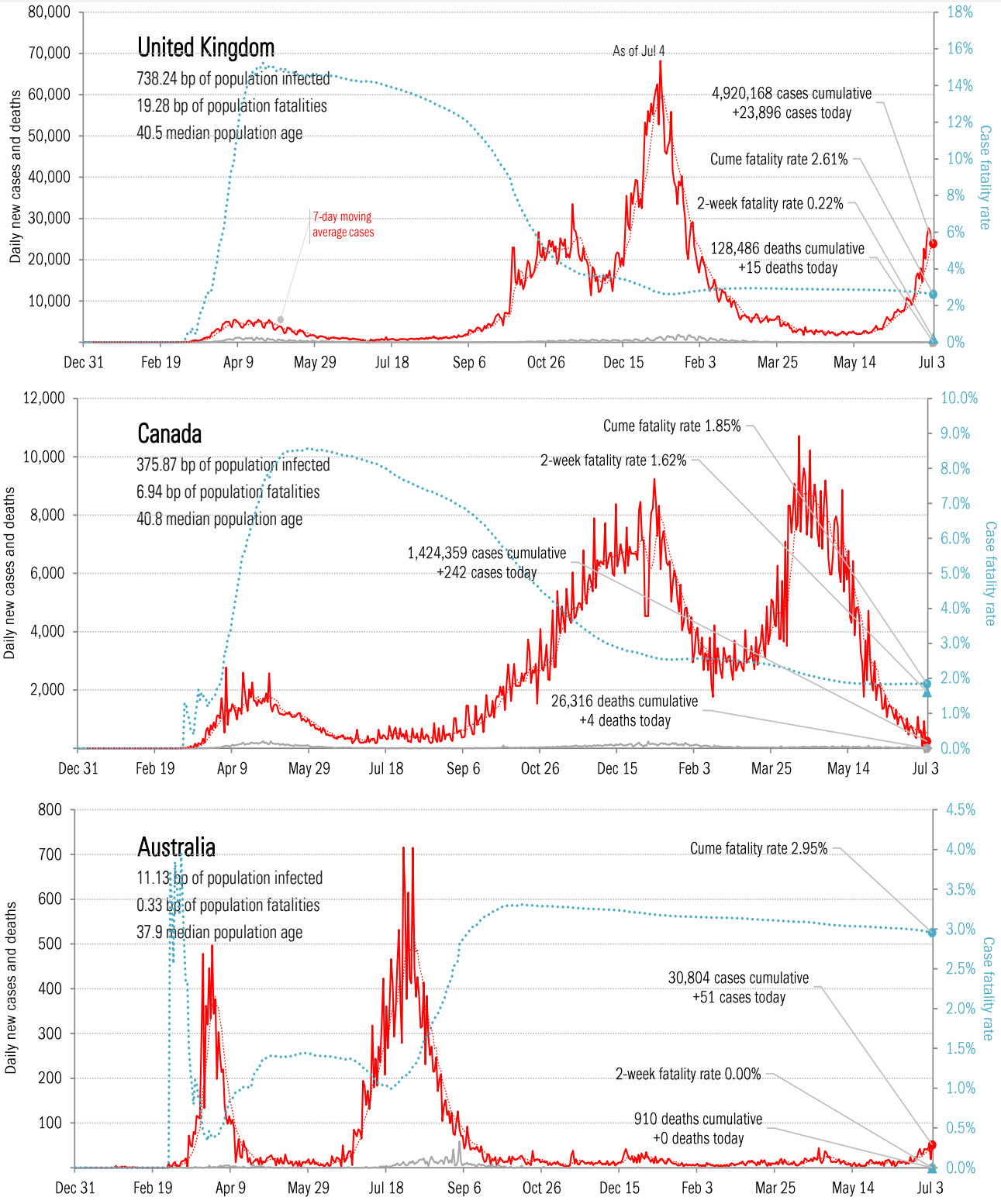
Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies



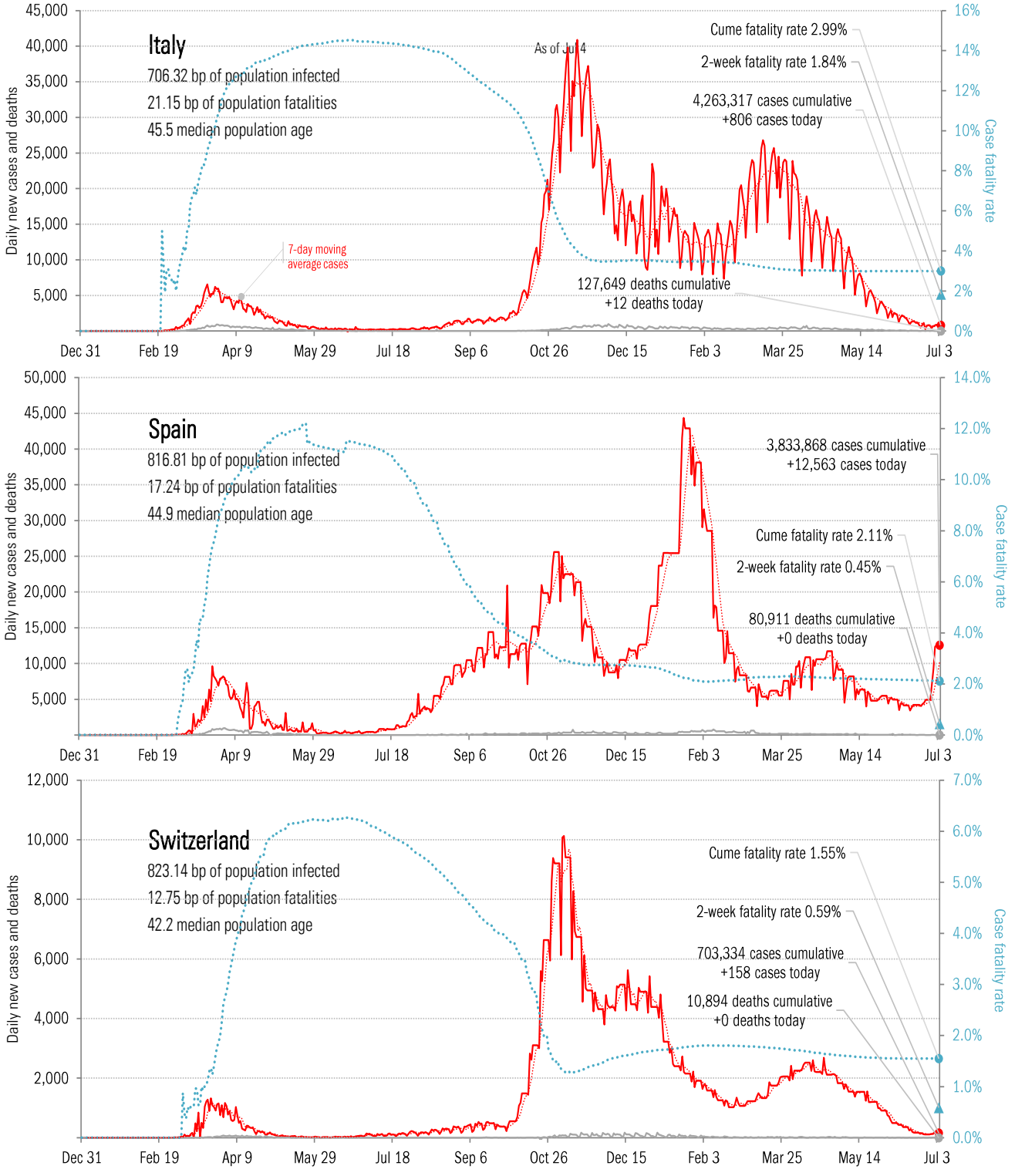
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



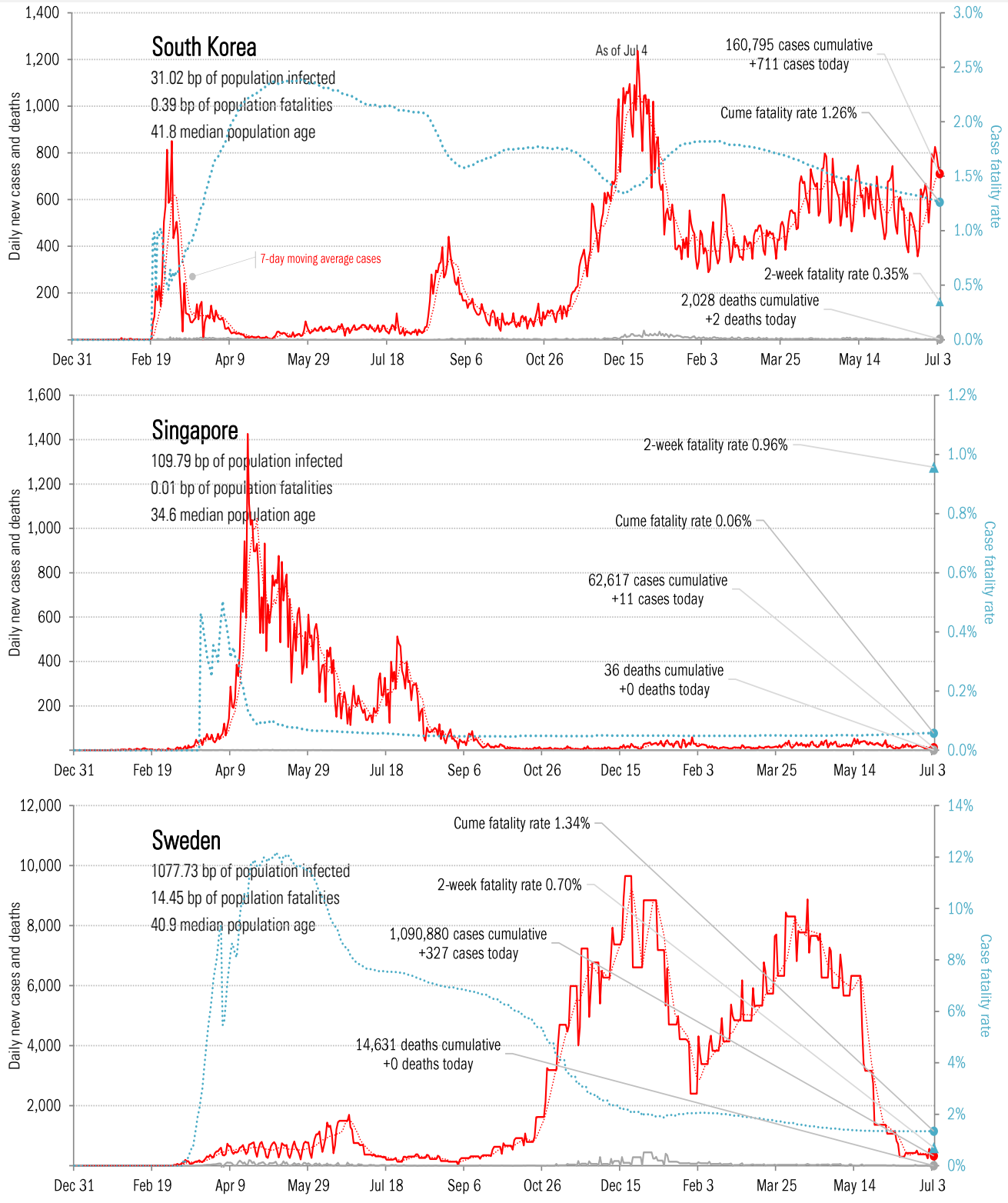
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



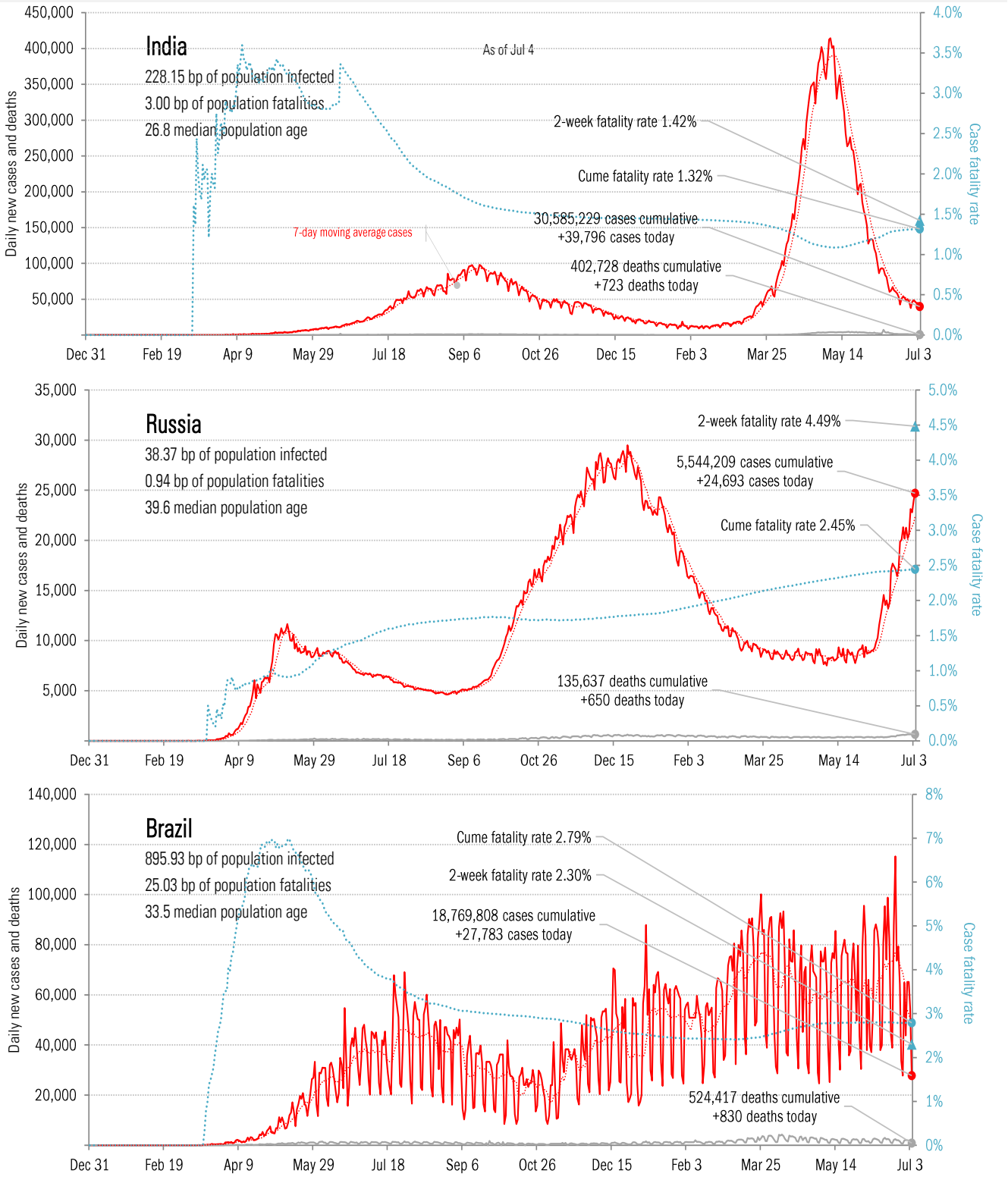
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



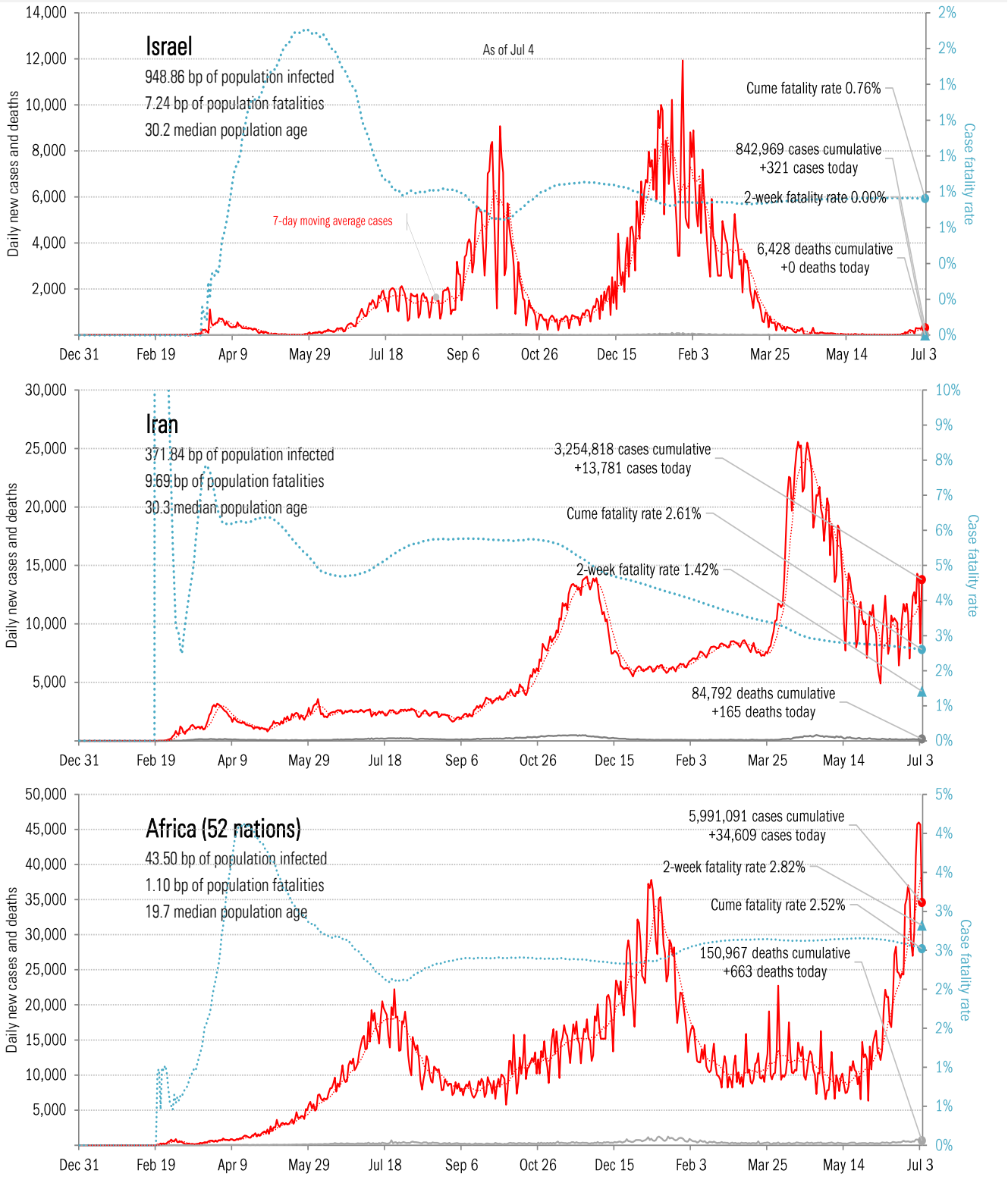
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



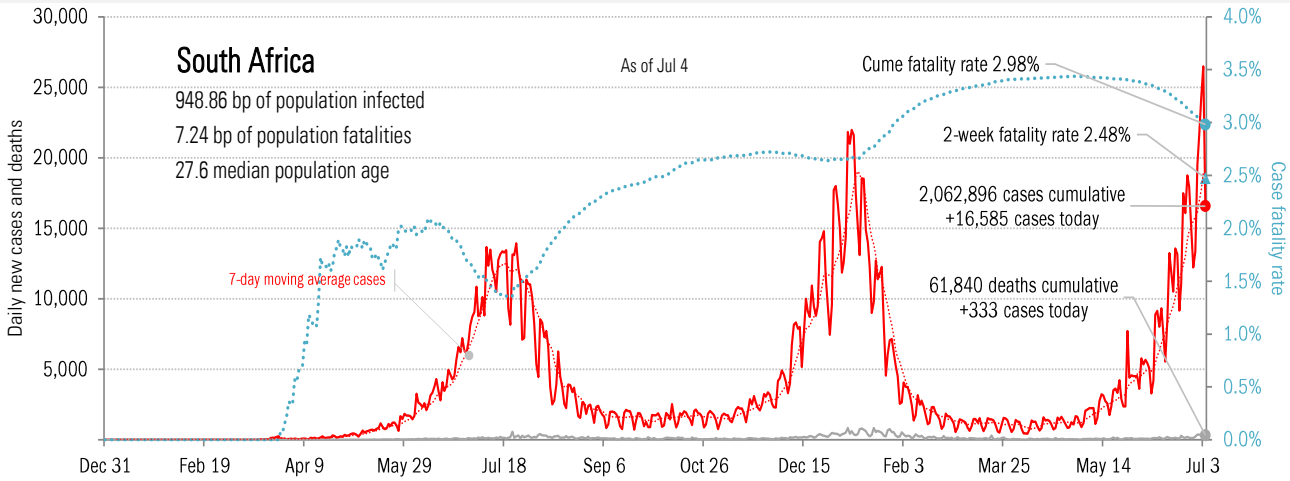
Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued



Source: Johns Hopkins, TrendMacro calculations