Trend Macrolytics, LLC
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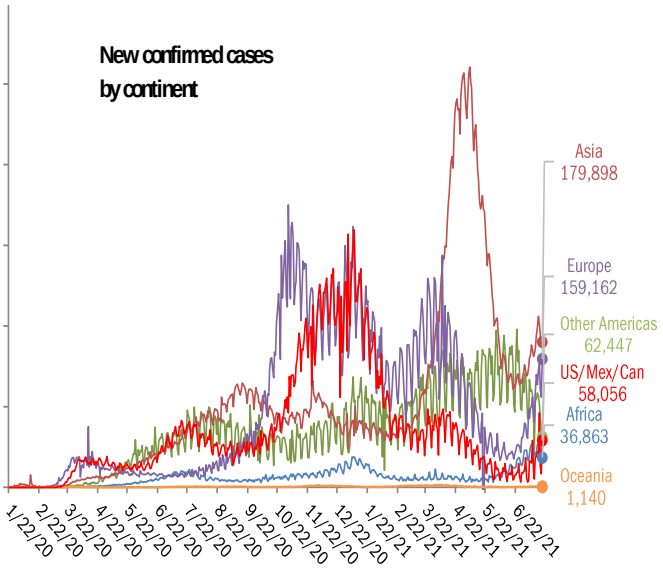
Data Insights: Covid-2019 Monitor

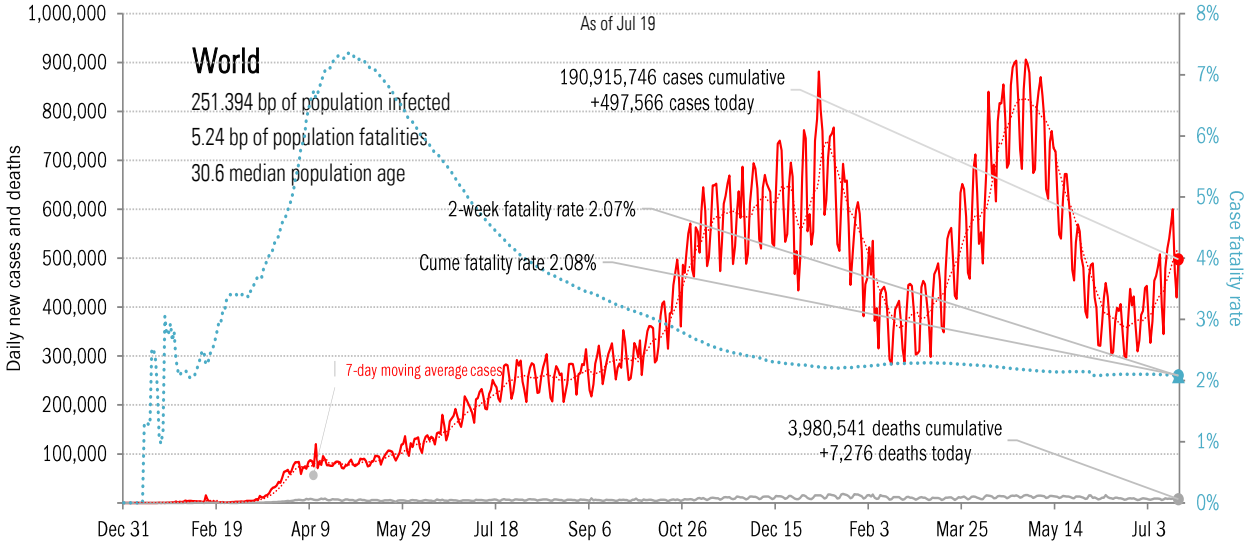
Tuesday, July 20, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
Spain	+61,628	Indonesia	+1,338
United Kingdom	+40,671	Russia	+711
United States	+34,359	Brazil	+542
Indonesia	+34,257	Colombia	+446
India	+30,093	Argentina	+406
Iran	+25,441	India	+374
Russia	+24,098	Burma	+281
Colombia	+16,455	Bangladesh	+231
Turkey	+15,347	Afghanistan	+230
Brazil	+15,271	South Africa	+221
	+297,620		+4,780
World	+497,566	World	+7,276
Top ten	60%	Top ten	66%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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Thomas Demas: 704 552 3625 tdemas@trendmacro.com

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The US scorecard

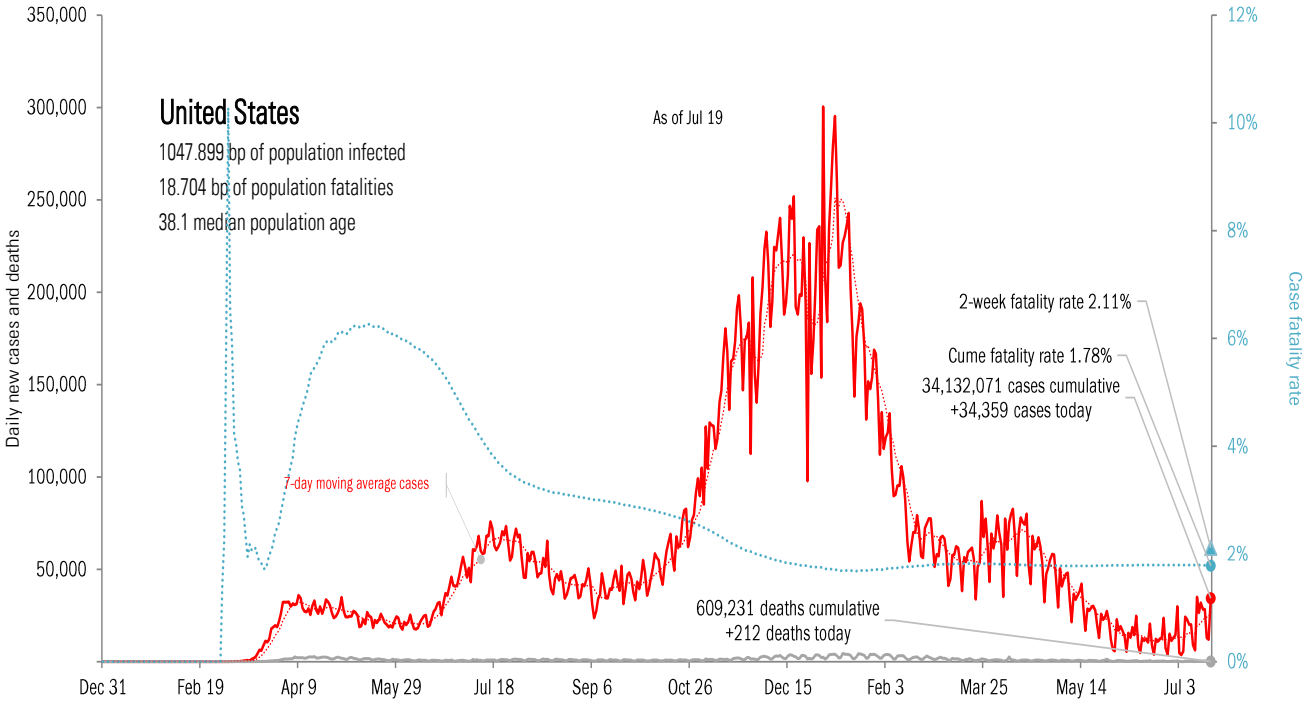
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	+6,493	CA	+39	FL	+206	CA	3,865,655	CA	64,133	TX	260,020	RI	89%	MO	27%
CA	+5,156	FL	+36	TX	+100	TX	3,044,072	NY	53,780	CA	244,496	MA	85%	AR	23%
LA	+3,987	IL	+20	CA	+80	FL	2,442,013	TX	52,839	FL	196,191	MD	85%	NV	22%
GA	+3,290	KY	+17	GA	+55	NY	2,127,592	FL	38,316	NY	137,570	MO	84%	UT	20%
NC	+2,950	AR	+15	LA	+48	IL	1,402,763	PA	27,795	GA	111,387	PA	82%	WY	17%
IL	+2,817	LA	+13	AL	+43	PA	1,221,350	NJ	26,545	PA	92,342	FL	81%	MS	15%
TX	+2,662	IN	+12	AZ	+33	GA	1,149,266	IL	25,810	OH	88,864	CT	81%	FL	14%
AR	+2,552	NC	+12	NY	+28	OH	1,117,769	GA	21,564	IL	83,639	NV	81%	TX	13%
MS	+2,326	TX	+12	NV	+24	NJ	1,029,243	MI	21,109	KY	80,000	DC	81%	OK	13%
OK	+2,126	OR	+9	UT	+23	NC	1,025,826	OH	20,437	MI	73,744	MN	80%	ID	13%
	+34,359		+185		+640		18,425,549		352,328		1,368,253				
All states	+58,604		+248		+611	All states	34,132,071		609,231		2,437,679	All states	70%		67%
Top ten	59%		75%		105%	Top ten	54%		58%		56%	Median	73%		5%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
AZ	-1,098	TN	-87	KY	-364	GA	+40 bp
MO	-328	AZ	-17	AR	-57	NE	+20 bp
NY	-233	NY	-5	OH	-44	CA	+10 bp
NJ	-116	SC	-5	MO	-33	CT	+10 bp
CO	-79	CO	-2	MS	-24	DC	+10 bp



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

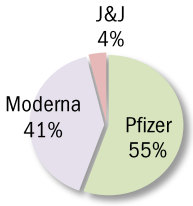
Rolling out the vaccines in the US and the world

US overall	Total				Today
Doses distributed	402,080,395				+0.074 million
Doses administered	348,140,656				+0.509 million
Administered	**One dose**	**% Pop**	**Immune**	**% pop**	**New immune today**
Total population	191,078,015	57%	165,734,238	50%	+0.242 million
Age 12 to 17	9,848,295	39%	7,712,379	31%	+0.047 million
Age 18 to 64	130,658,503	64%	112,902,088	55%	+0.192 million
Age 65 and over	50,346,457	92%	44,990,552	82%	+0.003 million

Immunity	Full	Partial
US	48.3%	55.7%
UK	53.2%	68.2%
France	40.1%	54.4%
Spain	51.4%	63.1%
Germany	46.0%	59.5%
Italy	44.3%	60.6%
Australia	11.1%	28.6%
Israel	60.6%	66.4%
Canada	50.7%	70.3%
Japan	22.5%	34.4%
Africa	1.5%	3.1%
India	6.2%	23.7%
Brazil	16.0%	44.3%

Global data differs from sources, timing

China NA



At today's dosing pace,
every American >18 immune in
267 days
by Apr 12, 2022

61.1% of population >18 immunized
11.6% previously tested positive
72.8% 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		
61.7%			72.1%			73.9%		
51.0%			70.8%			67.5%		
45.0%			53.0%			62.8%		

					WI			VT	NH	
					56.4%			79.3%	73.2%	
					54.7%			74.9%	63.9%	
					51.1%			67.0%	57.7%	
WA	ID	MT	ND	MN	IL	MI		NY	MA	
66.1%	50.9%	55.9%	50.1%	61.8%	62.4%	62.3%		66.2%	74.8%	
63.0%	40.4%	48.6%	44.7%	58.0%	61.1%	52.3%		61.7%	71.7%	
56.7%	36.9%	43.9%	39.7%	53.1%	47.7%	48.2%		56.0%	63.2%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
71.3%	54.7%	48.0%	58.5%	58.7%	53.8%	56.6%	66.5%	69.8%	71.0%	75.5%
59.9%	51.9%	40.7%	51.5%	52.3%	46.2%	49.1%	64.3%	64.6%	68.6%	66.0%
55.3%	43.4%	36.0%	46.3%	49.0%	43.6%	45.9%	51.3%	57.1%	62.4%	60.5%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
66.5%	54.1%	65.0%	57.7%	53.8%	54.0%	56.8%	65.1%	75.1%	70.5%	
63.4%	50.7%	59.2%	52.8%	46.8%	50.8%	45.8%	60.5%	63.5%	59.6%	
51.8%	43.8%	53.5%	48.9%	40.3%	44.8%	38.8%	53.6%	57.9%	51.8%	
	AZ	NM	KS	AR	TN	NC	SC	DC		
	60.1%	60.7%	57.0%	51.0%	50.2%	59.8%	55.5%	80.2%		
	51.9%	64.3%	50.4%	44.1%	43.5%	49.9%	45.5%	63.0%		
	44.5%	56.3%	43.1%	35.4%	38.5%	43.1%	39.9%	54.1%		
			OK	LA	MS	AL	GA			
			54.3%	47.2%	48.4%	53.0%	56.5%			
			46.3%	39.9%	37.7%	41.3%	44.9%			
			39.6%	36.2%	33.8%	33.7%	37.9%			
			TX					FL		PR
			59.3%					63.1%		69.4%
			49.8%					55.6%		67.6%
			42.9%					47.8%		58.7%

As of Jul 20

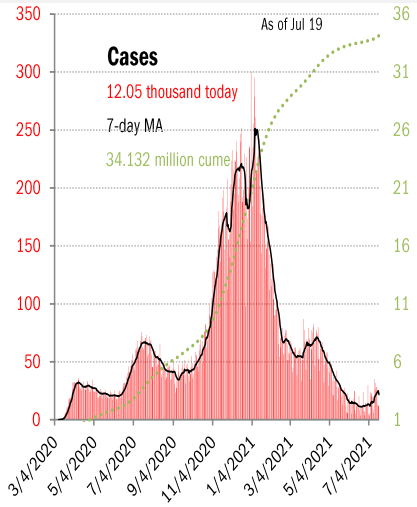
* Includes persons >18 fully immunized or previosuly tested positive, no overlap. Disregards untested positives, natural immunities.

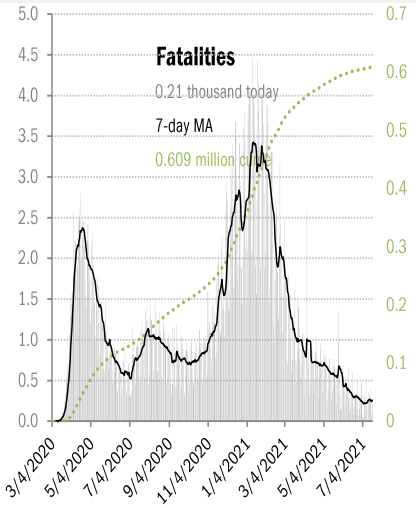
** One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

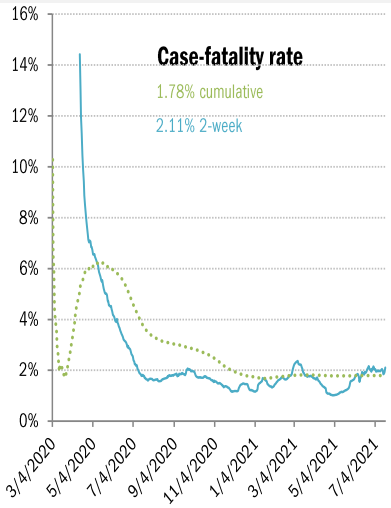
Source: CDC, CDC, Our World in Data, TrendMacro calculations

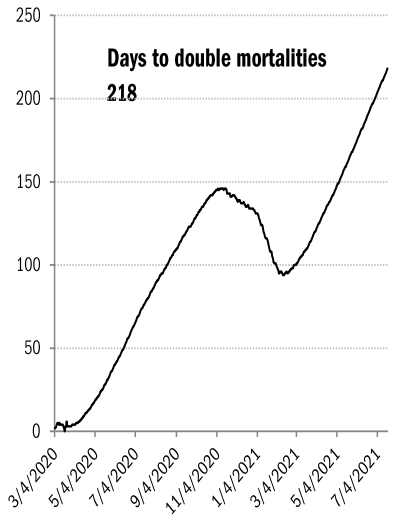
US deep-dive

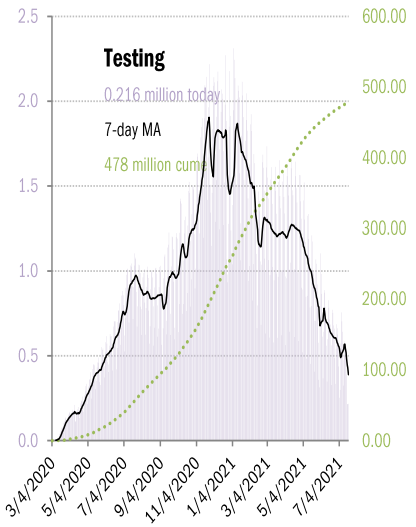
National and state-by-state data do not line up because of different sources

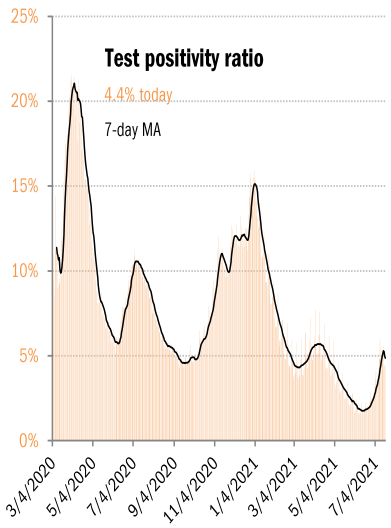


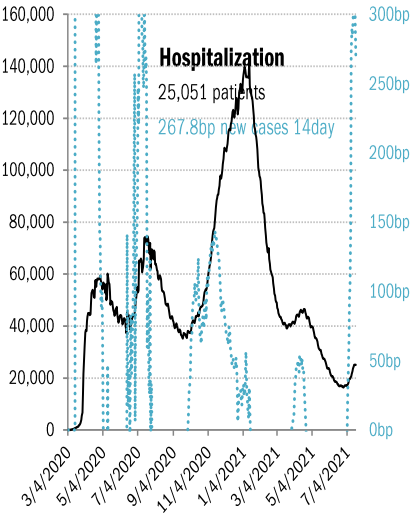


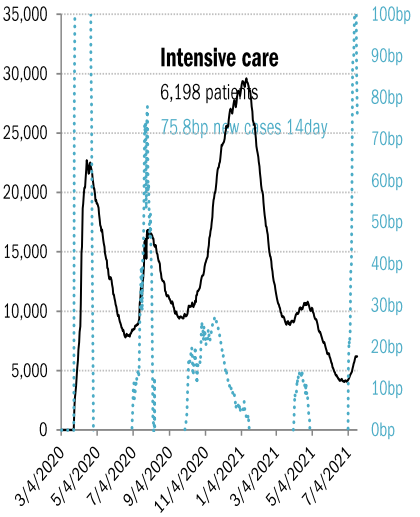


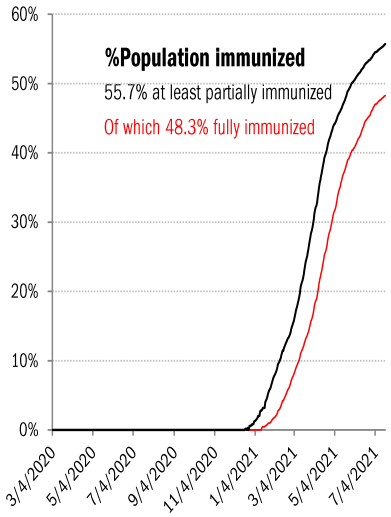












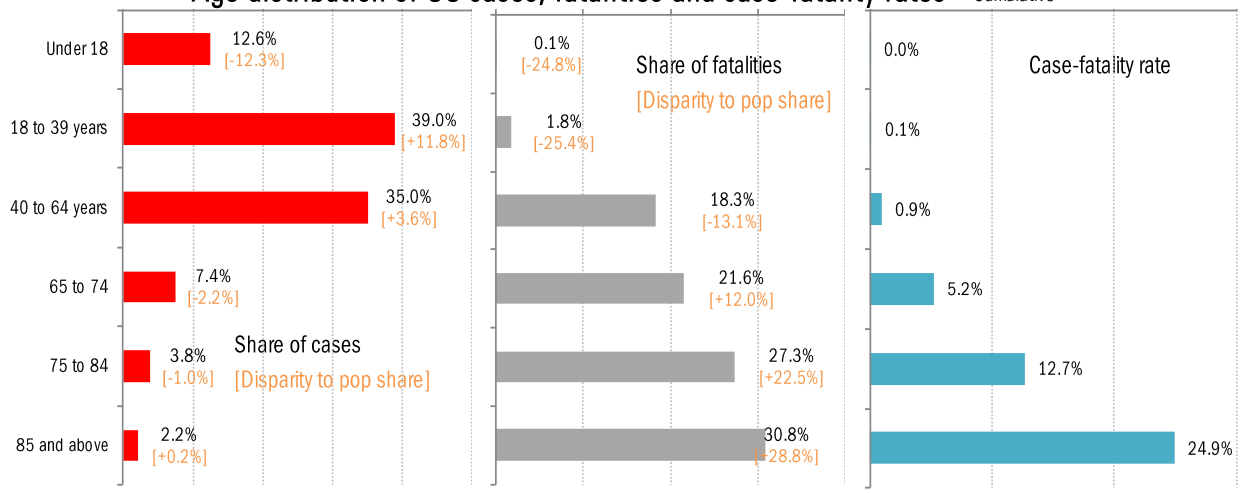
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

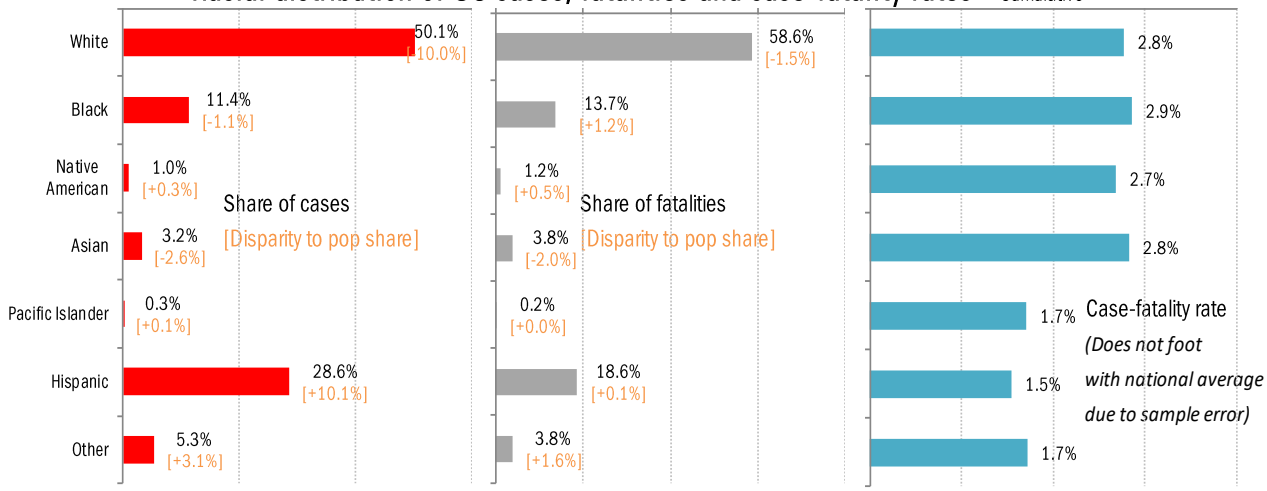
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



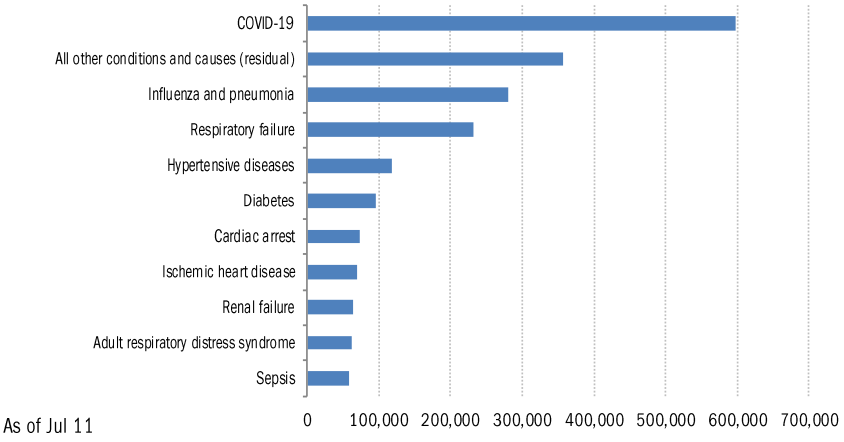
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jul 11

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

COVID-19 Guidance for Safe Schools
American Academy of Pediatrics
July 18, 2021

The American Academy of Pediatrics recommends universal masking in schools this fall.
Emily Anthes
New York Times
July 19, 2021

The Flimsy Evidence Behind the CDC's Push to Vaccinate Children
Marty Makary
Wall Street Journal
July 19, 2021

Facebook exec says platform is a 'scapegoat' for Biden's vaccine failure
Mary Kay Linge
New York Post
July 17, 2021

In Undervaccinated Arkansas, Covid Upends Life All Over Again
Sharon LaFraniere
New York Times
July 17, 2021

Determination of the April 2020 Trough in US Economic Activity
Business Cycle Dating Committee
NBER
July 19, 2021

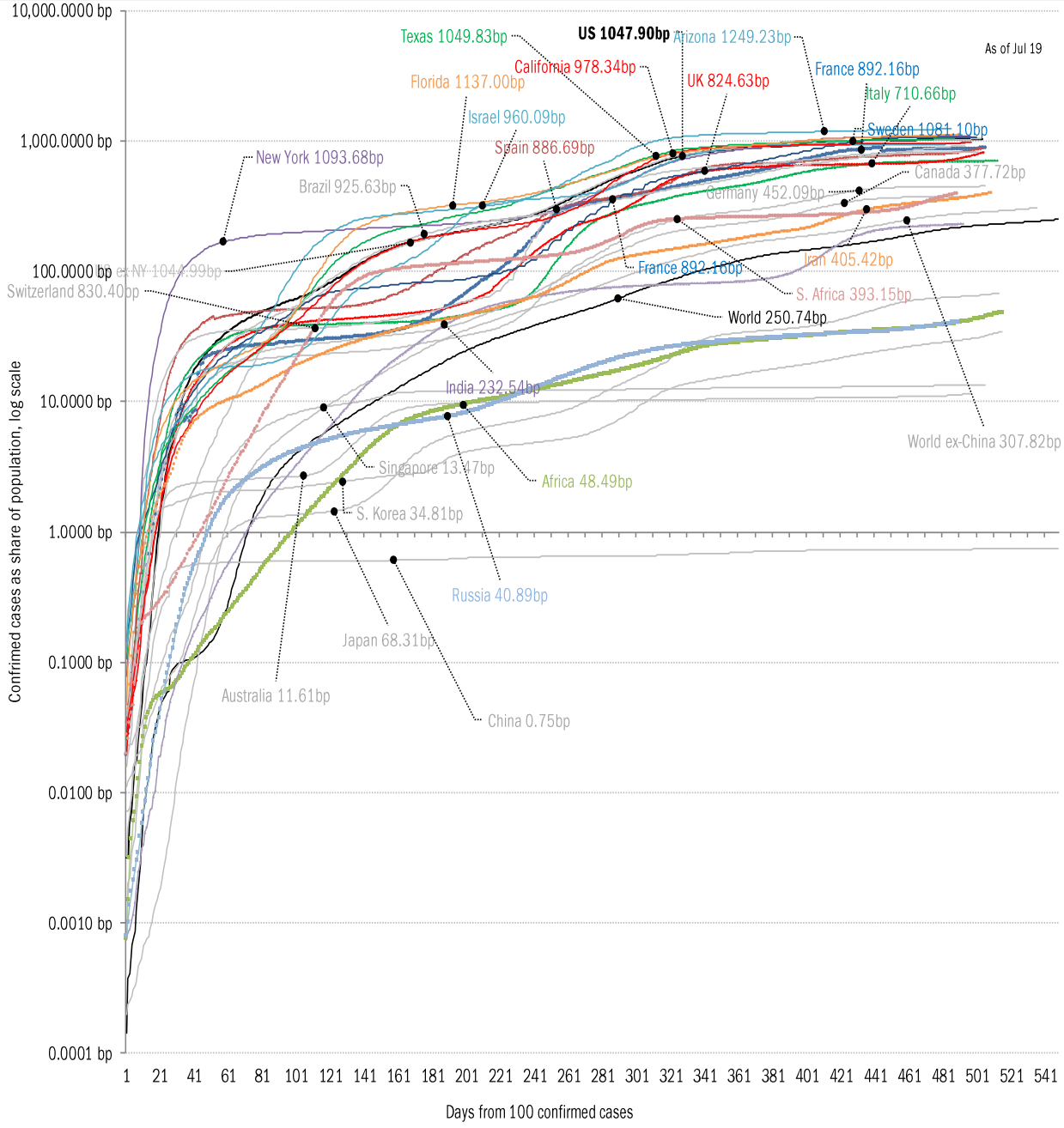
Meme of the day

ALARMING COVID SURGE: Cases Double From 2 To 4 In Just One Week

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

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

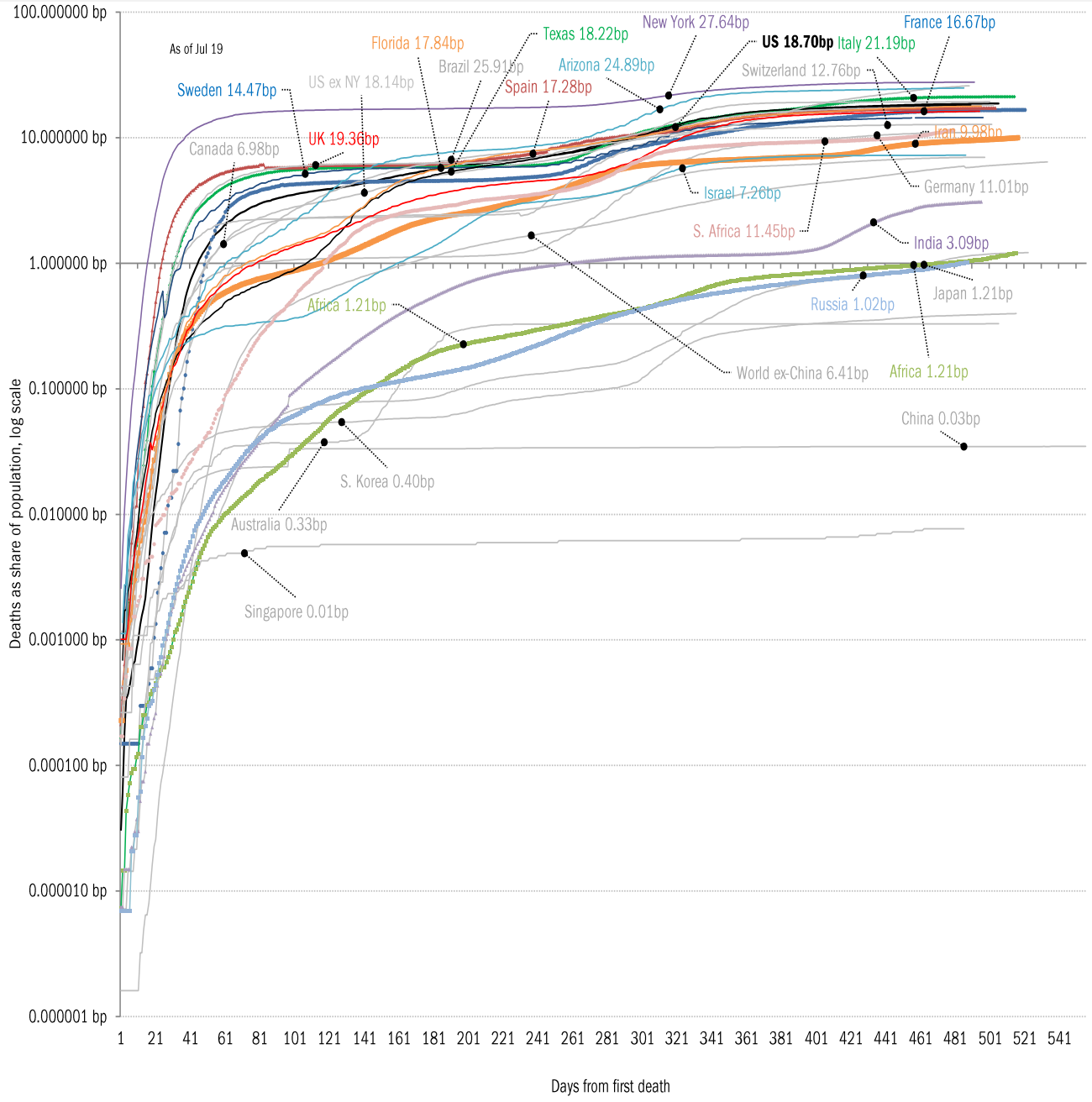
Share of infected population from first day with 100 confirmed cases, log scale



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

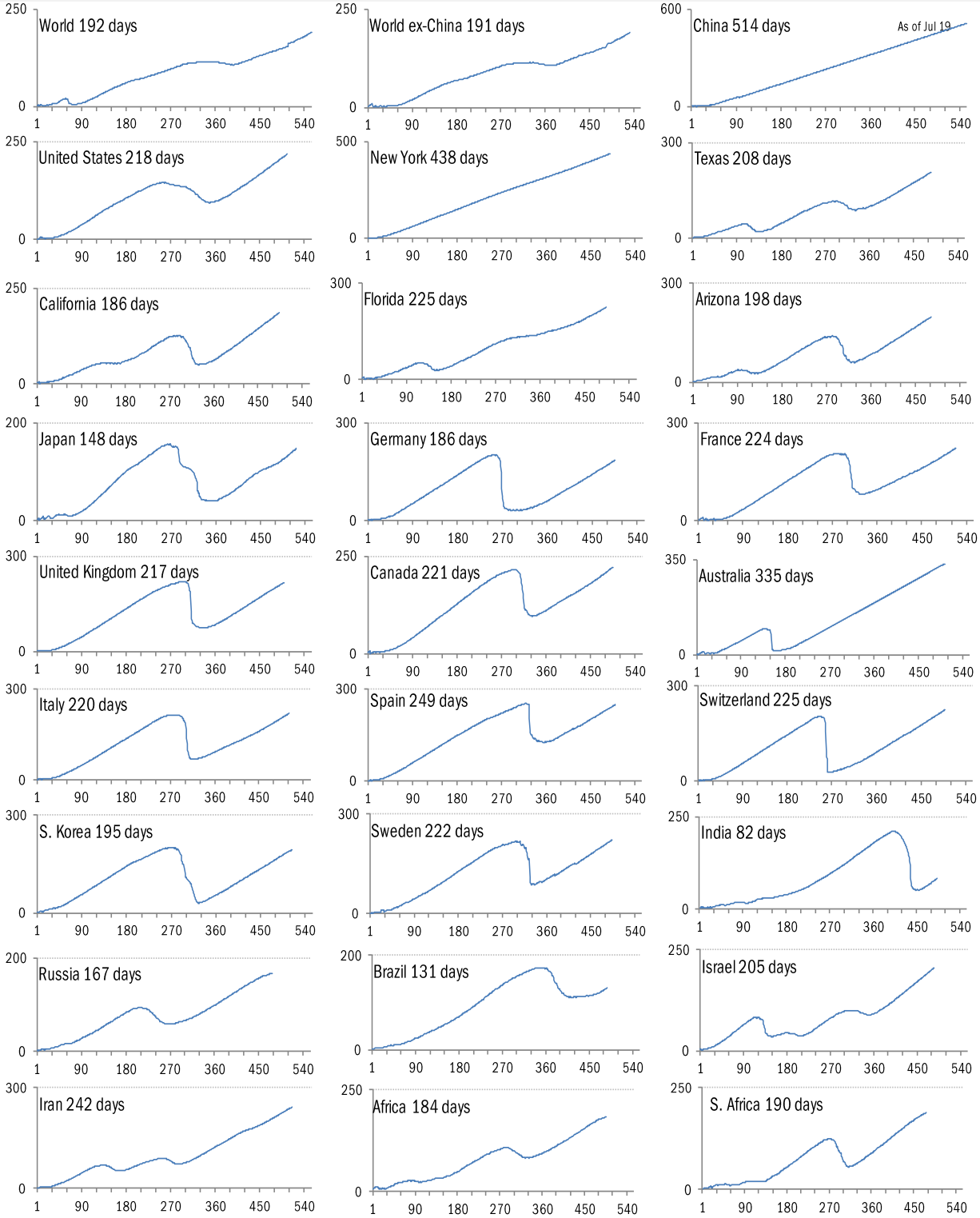


Source: Johns Hopkins, TrendMacro calculations

"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

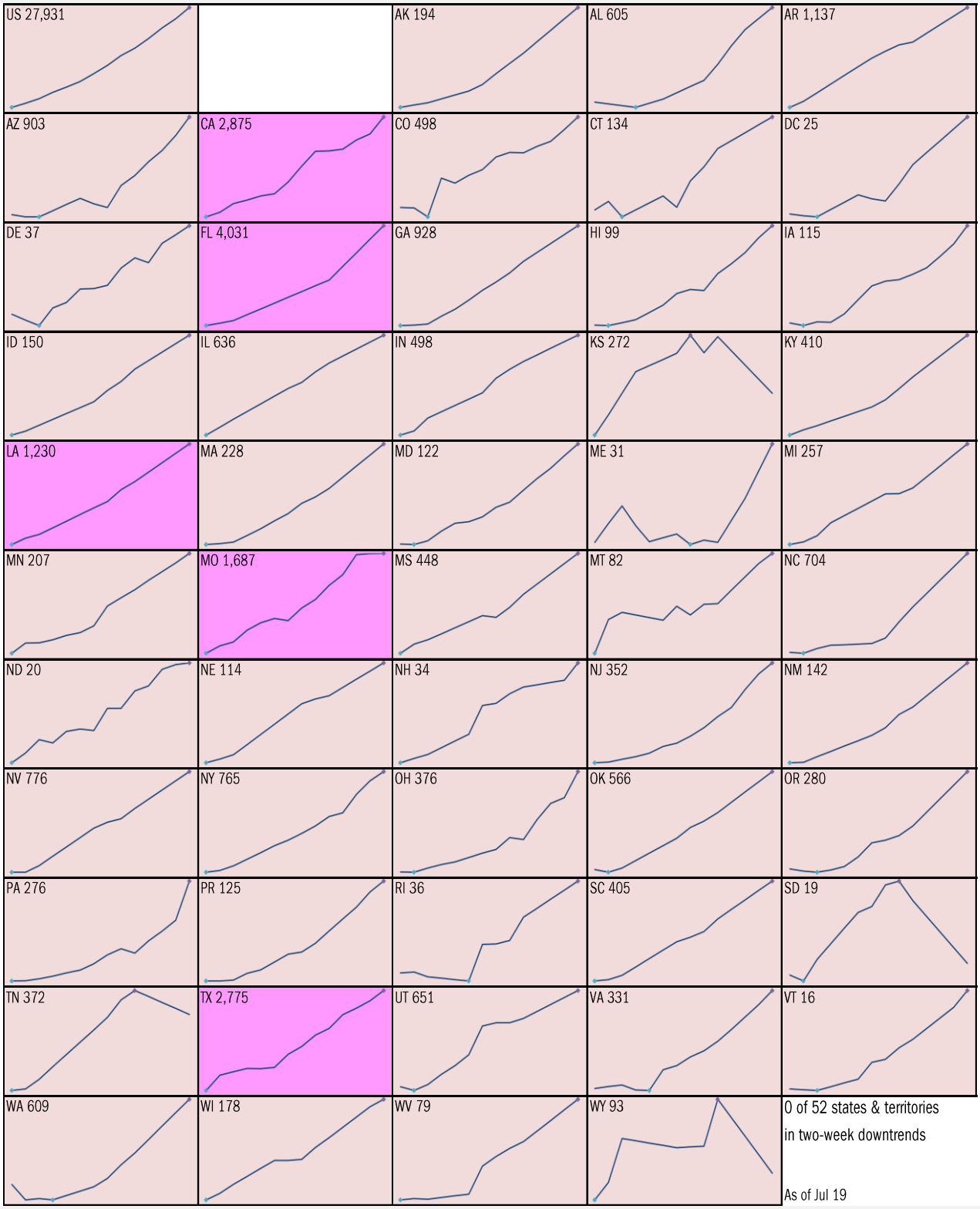


Source: Johns Hopkins, TrendMacro calculations

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

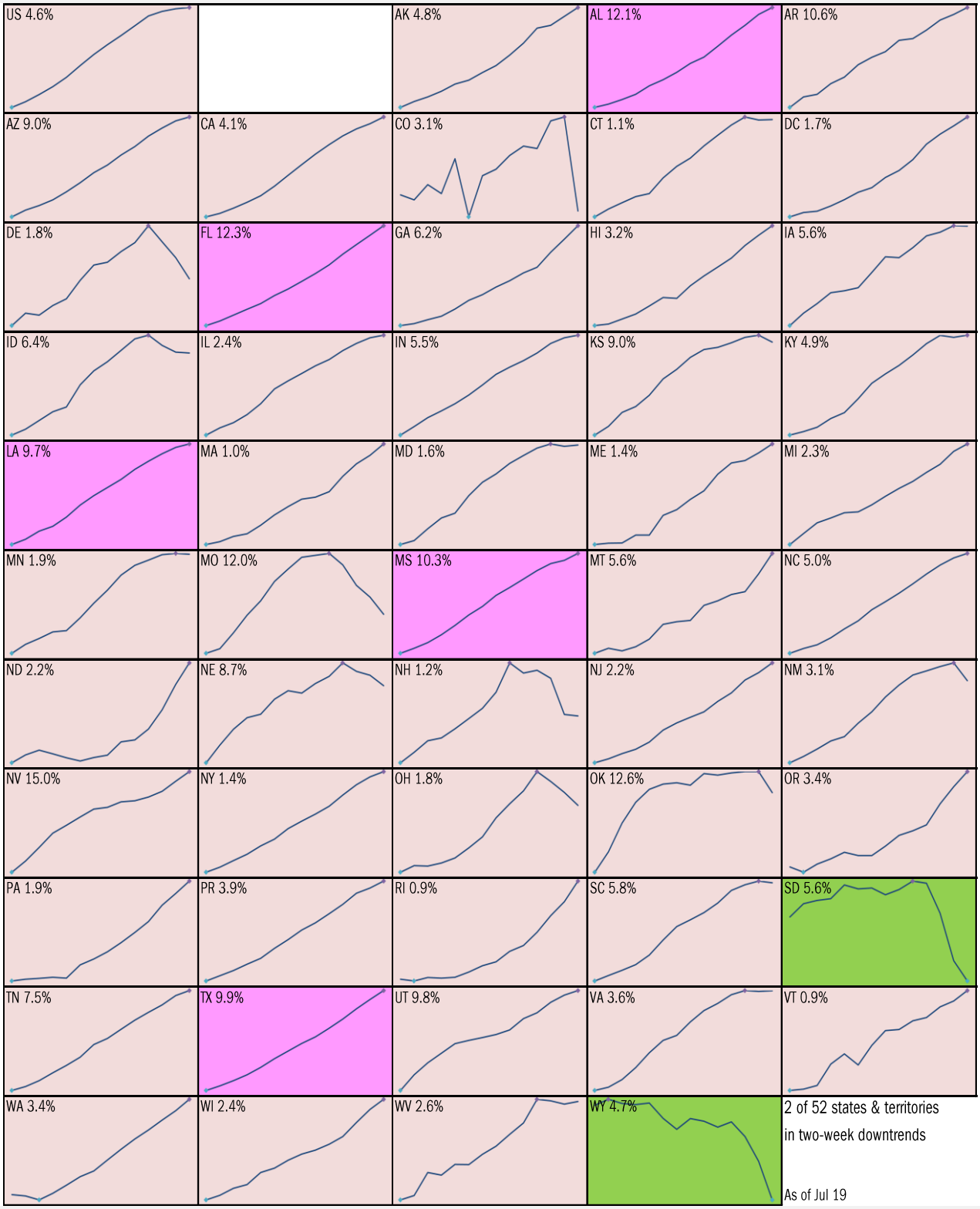


Source: Johns Hopkins, TrendMacro calculations

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

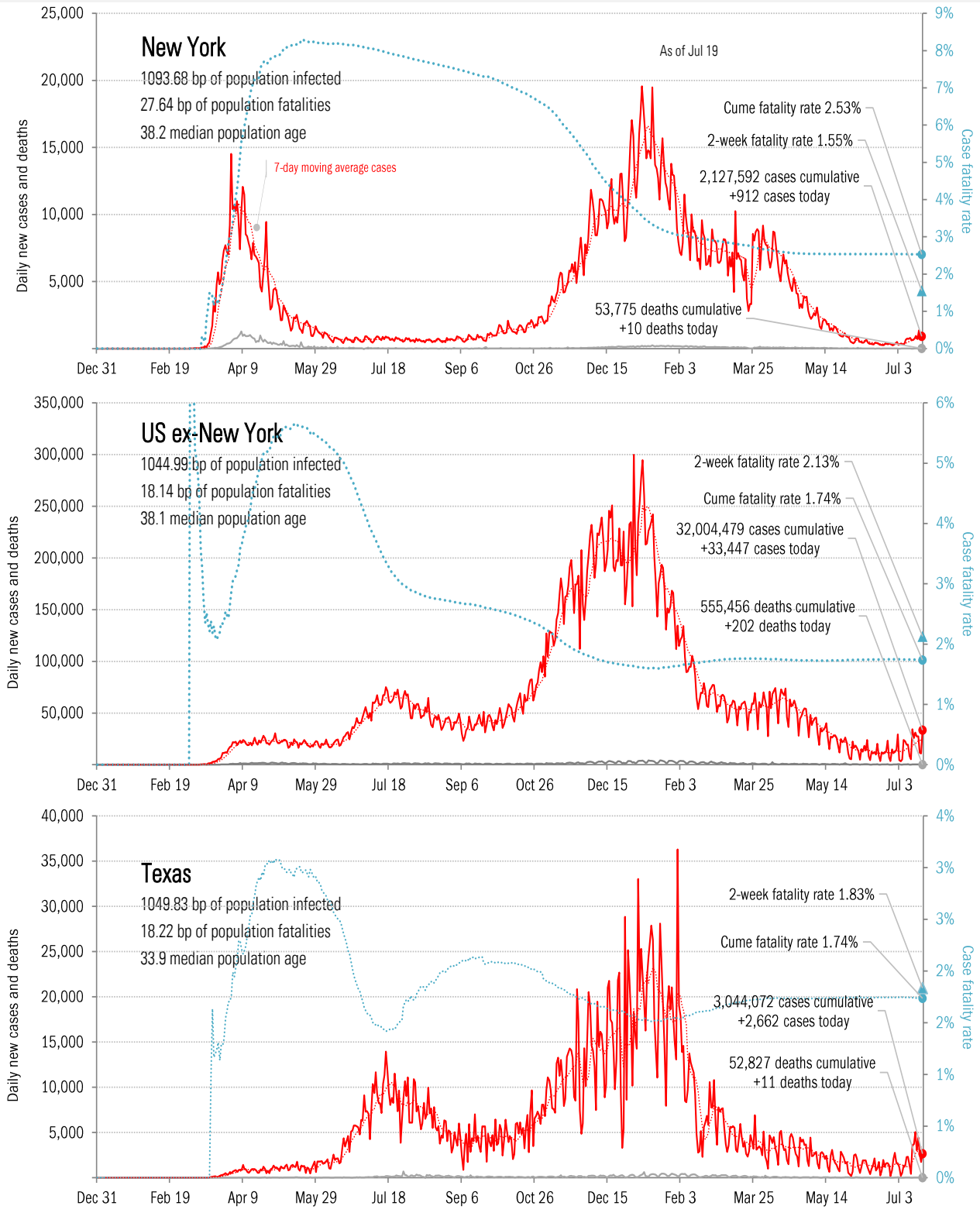
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst



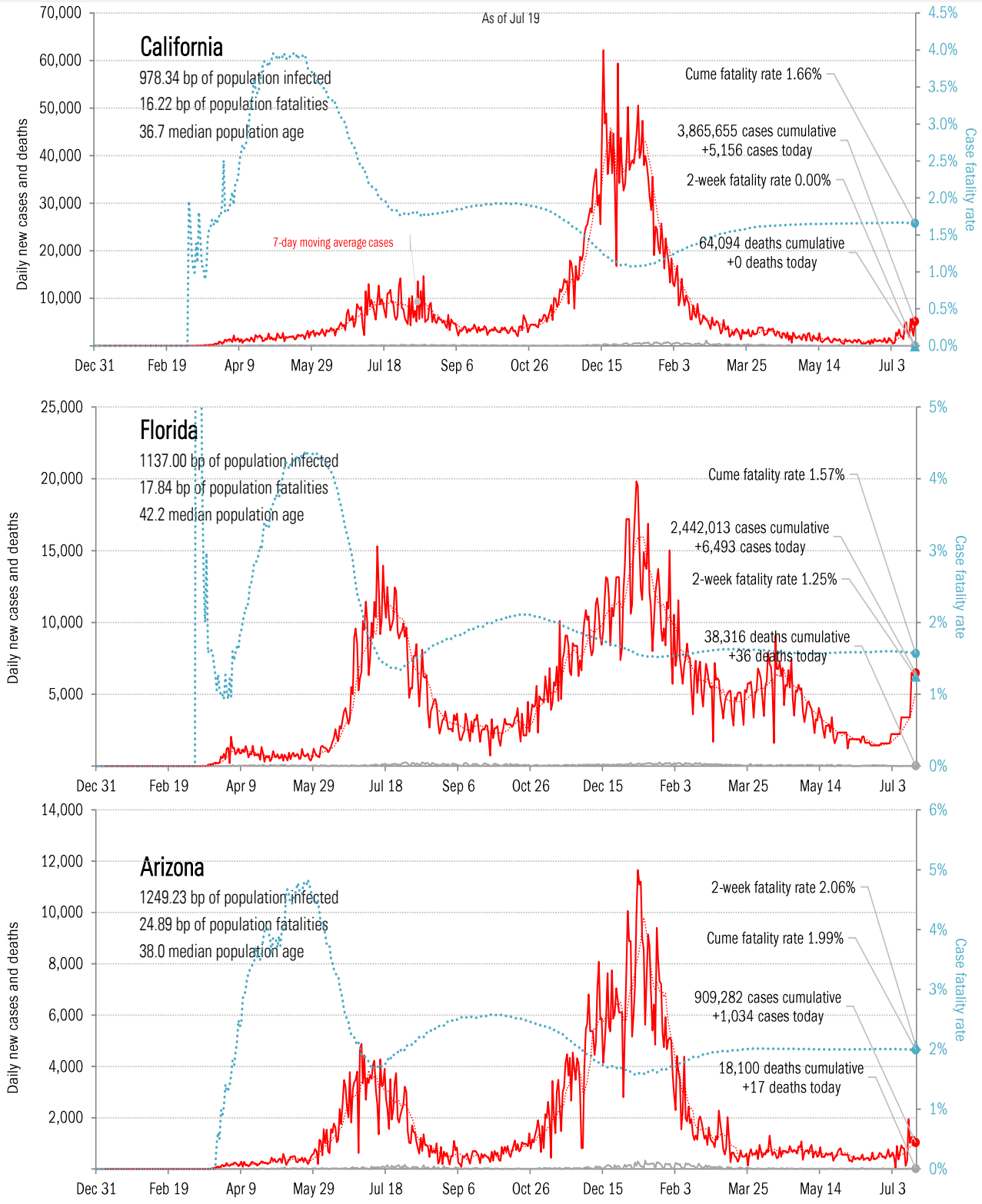
Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande



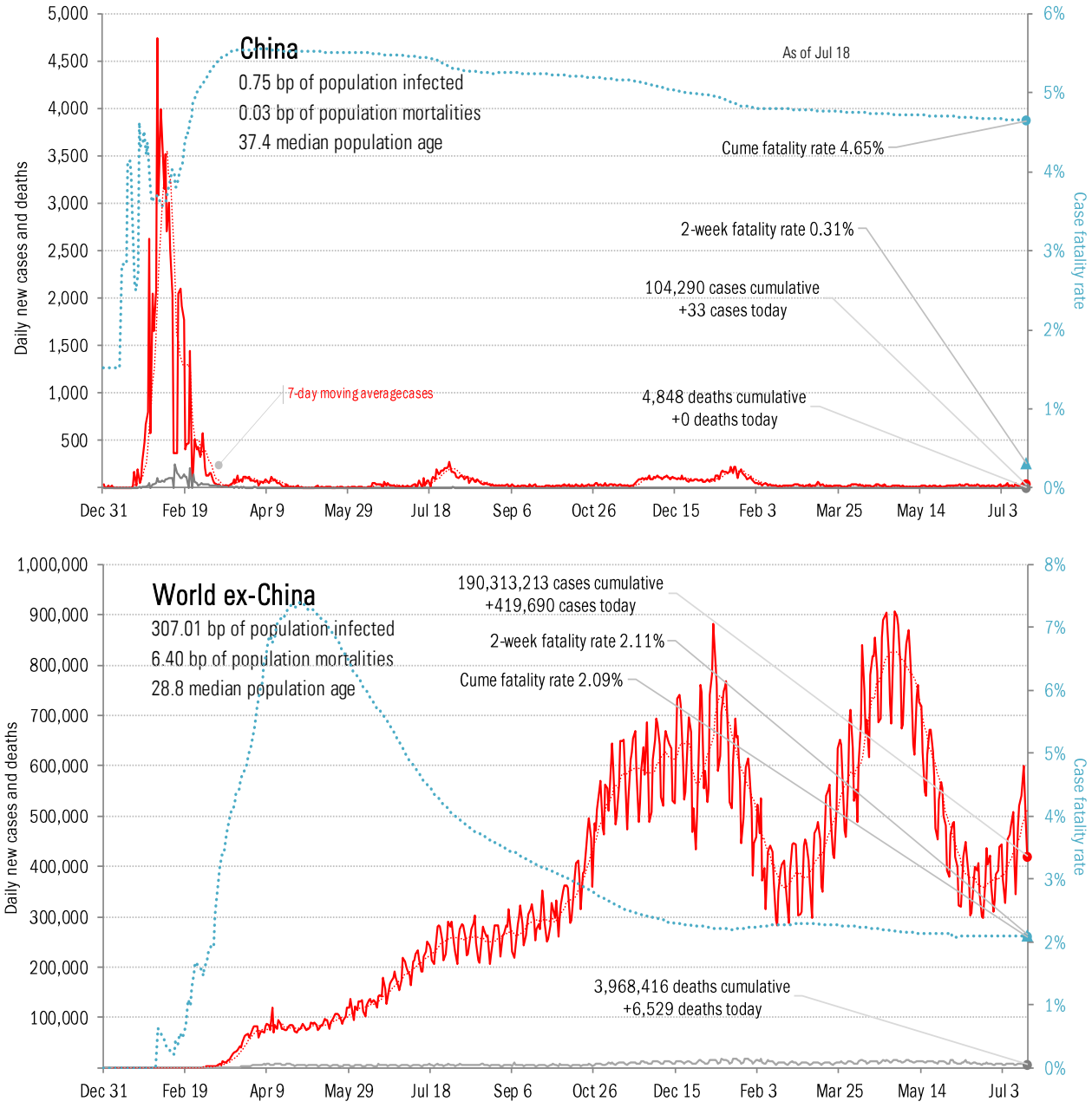
Source: Johns Hopkins, TrendMacro calculations

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



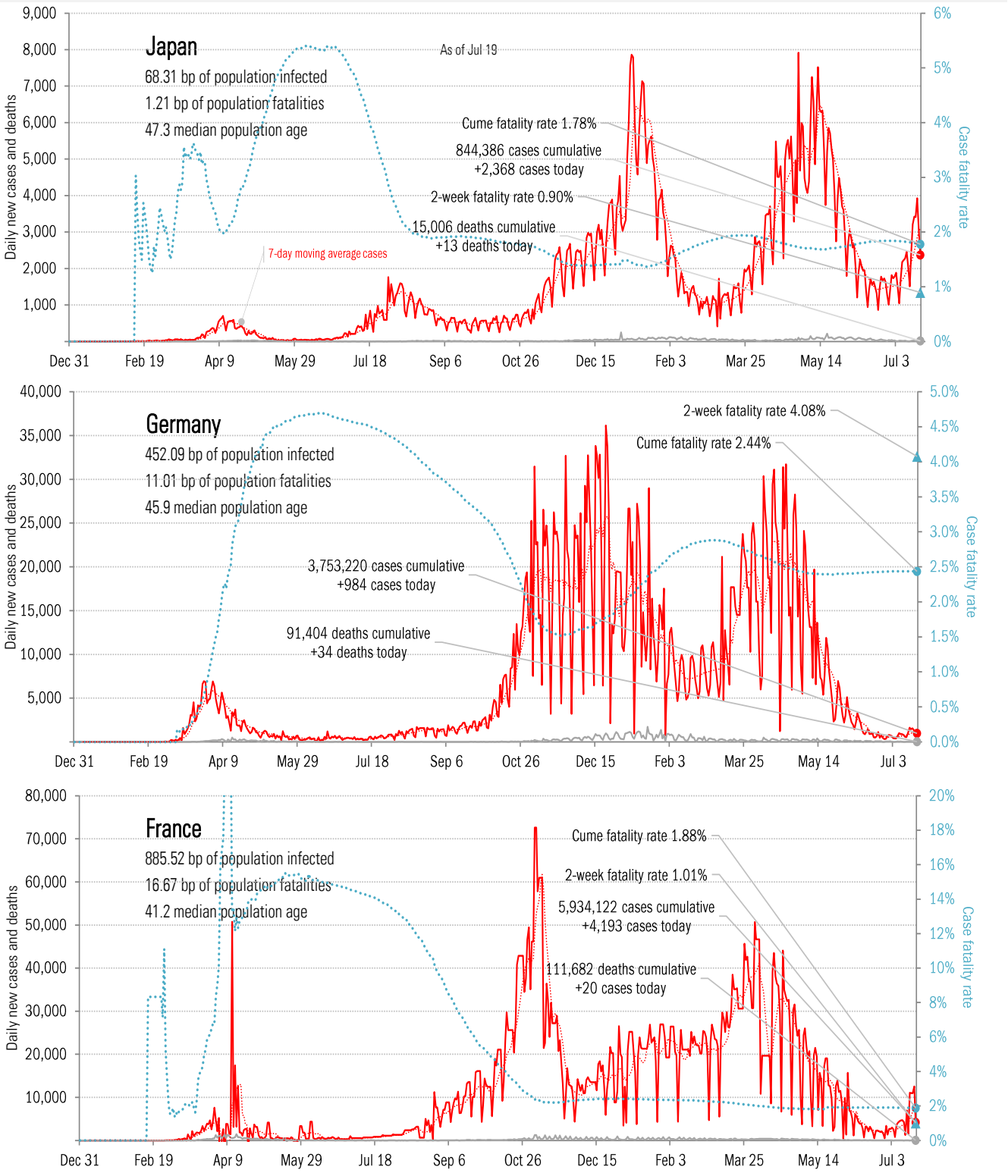
Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else



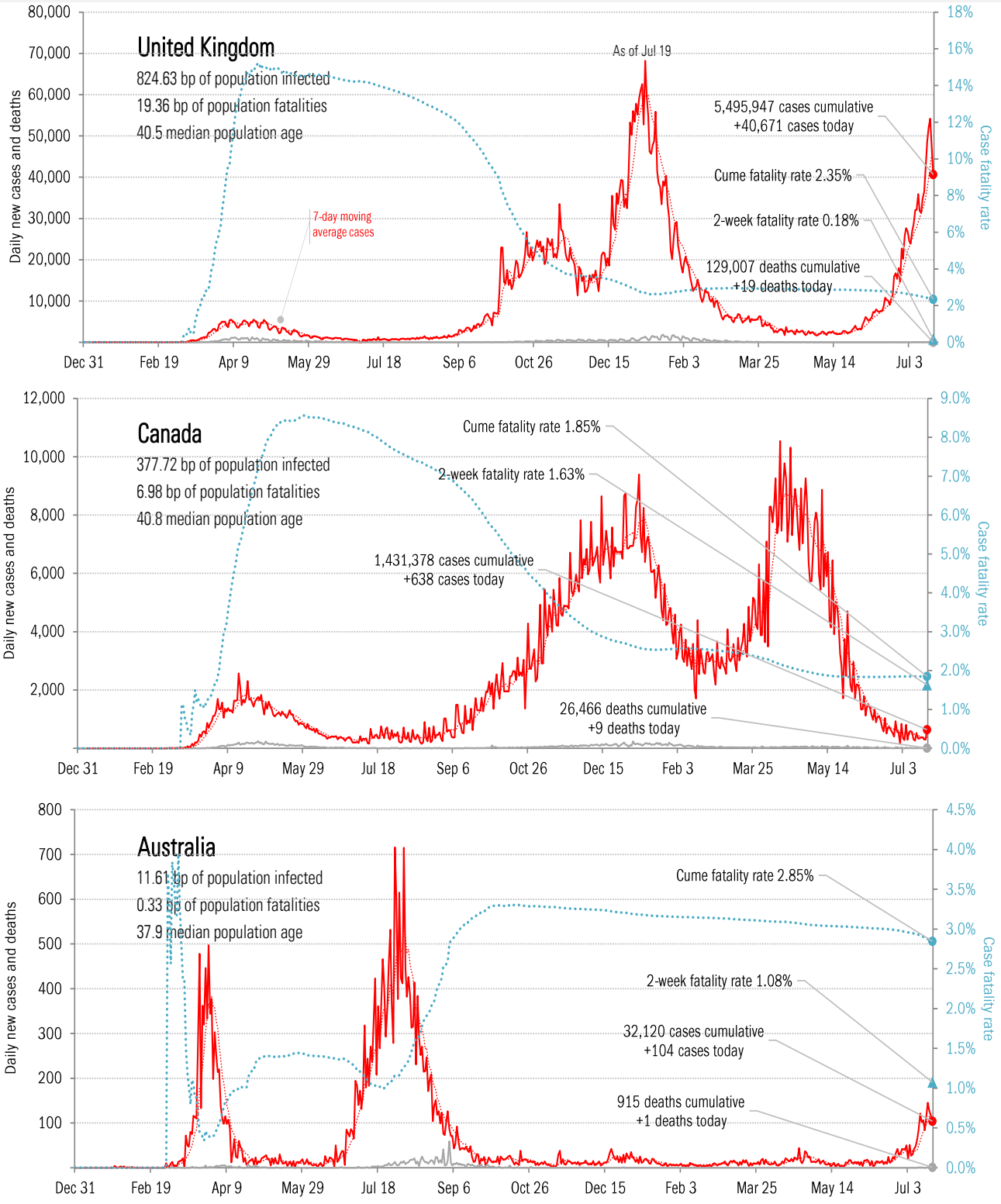
Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies



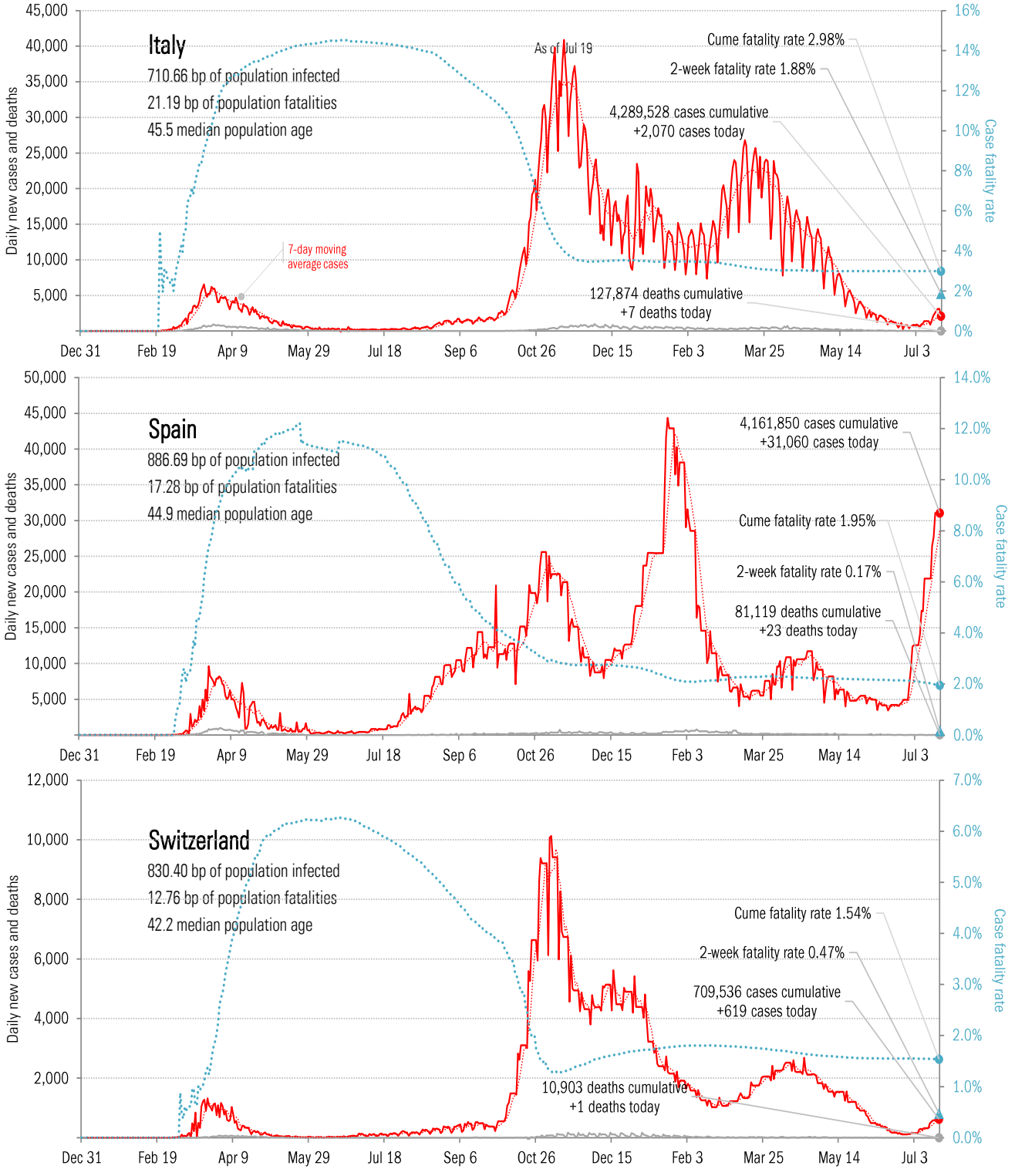
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



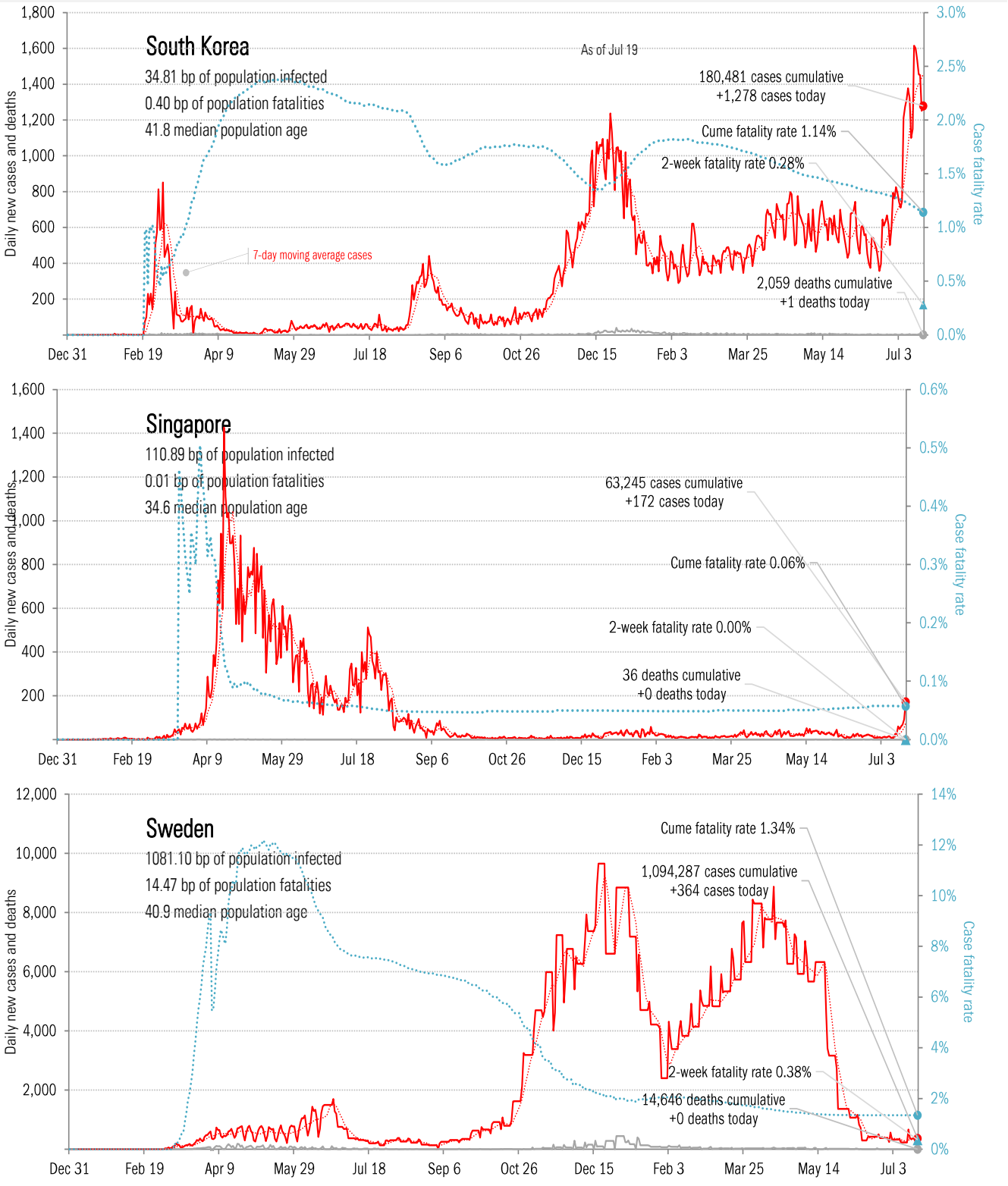
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



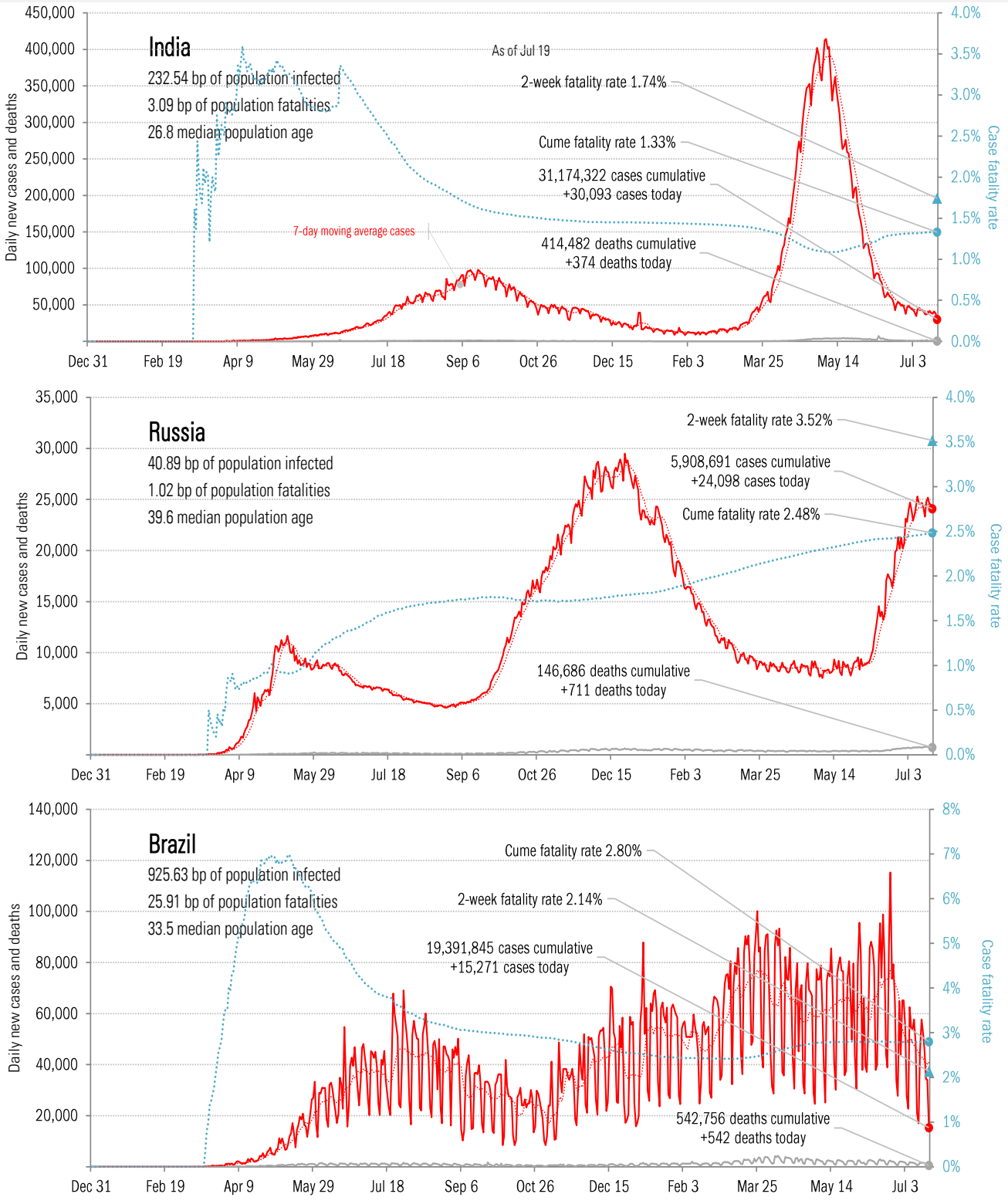
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



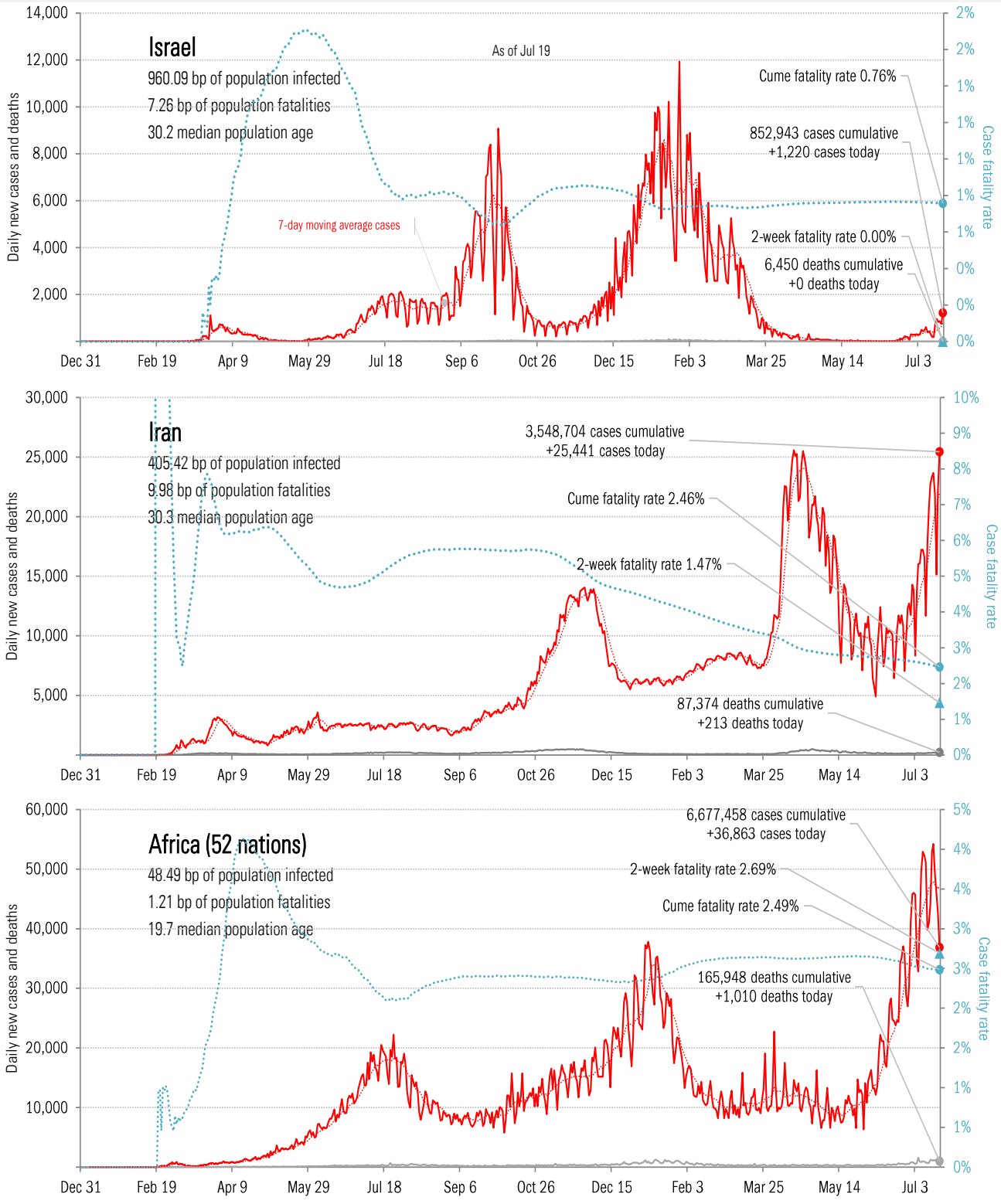
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



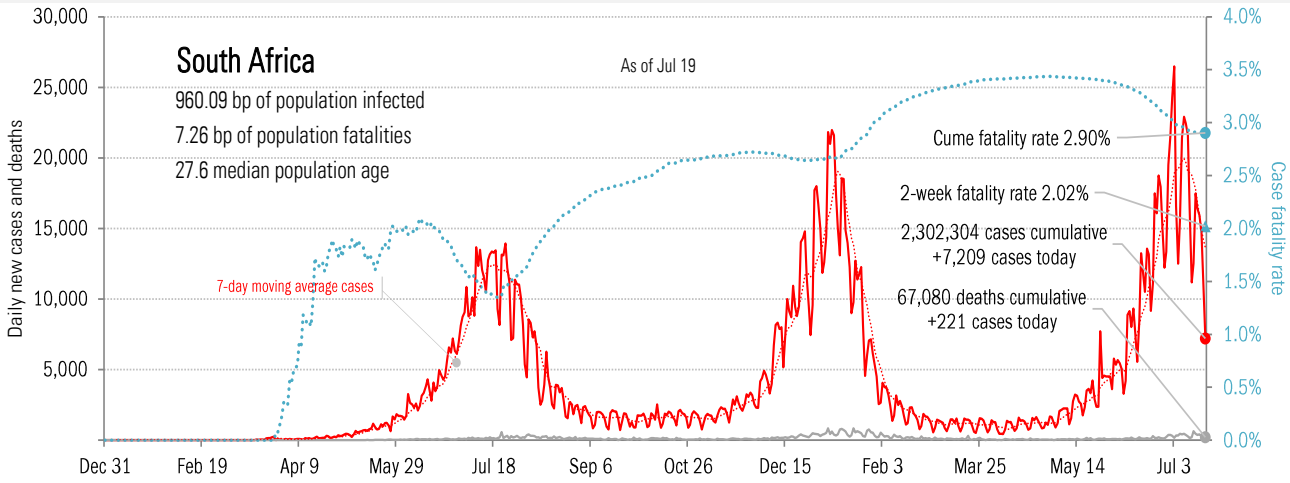
Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued



Source: Johns Hopkins, TrendMacro calculations