Trend Macrolytics, LLC
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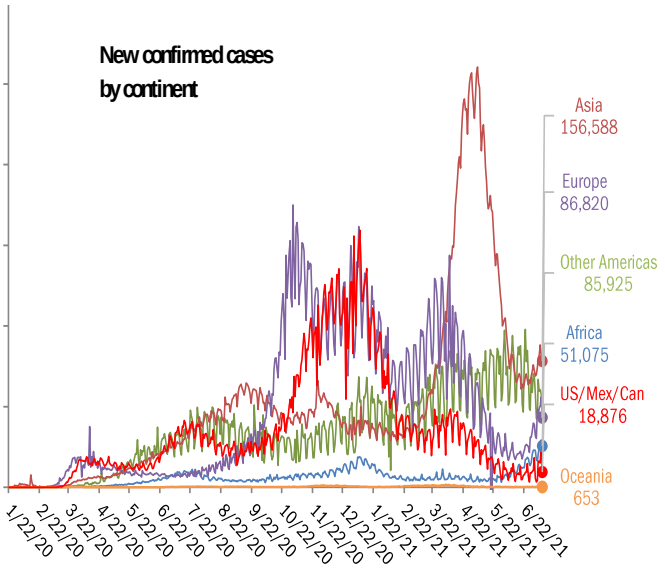
Data Insights: Covid-2019 Monitor

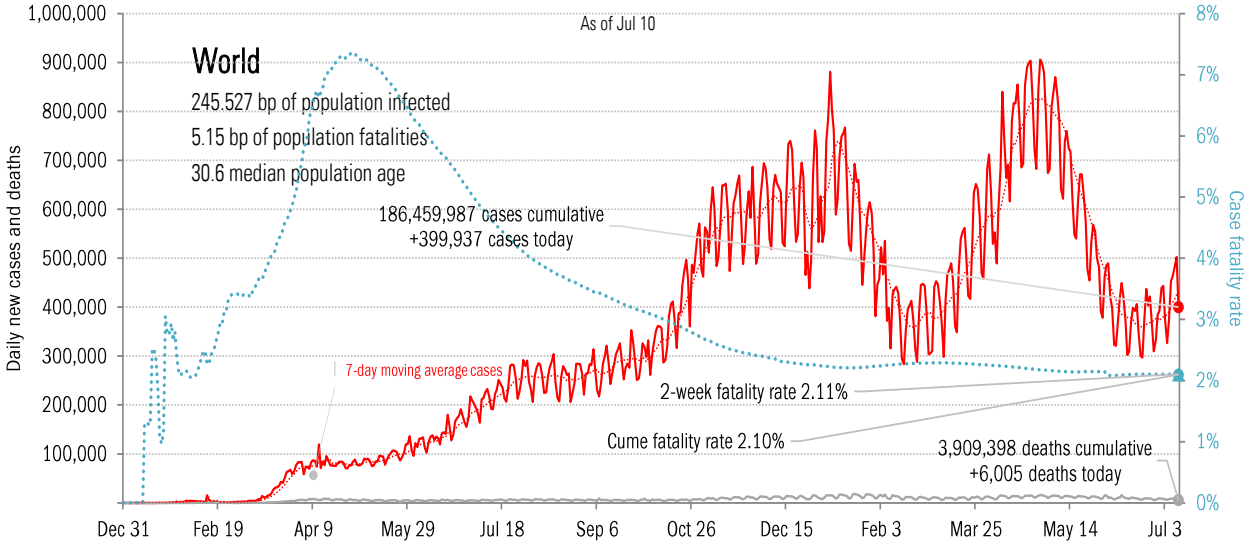
Sunday, July 11, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
Brazil	+48,504	Brazil	+1,205
India	+41,506	India	+895
Indonesia	+35,094	Indonesia	+826
United Kingdom	+31,835	Russia	+740
Russia	+24,607	Argentina	+353
South Africa	+21,610	South Africa	+265
Iran	+11,664	Mexico	+232
Argentina	+11,561	Tunisia	+194
Netherlands	+10,299	Bangladesh	+185
Mexico	+9,581	Iran	+151
	+246,261		+5,046
World	+399,937	World	+6,005
Top ten	62%	Top ten	84%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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The US scorecard

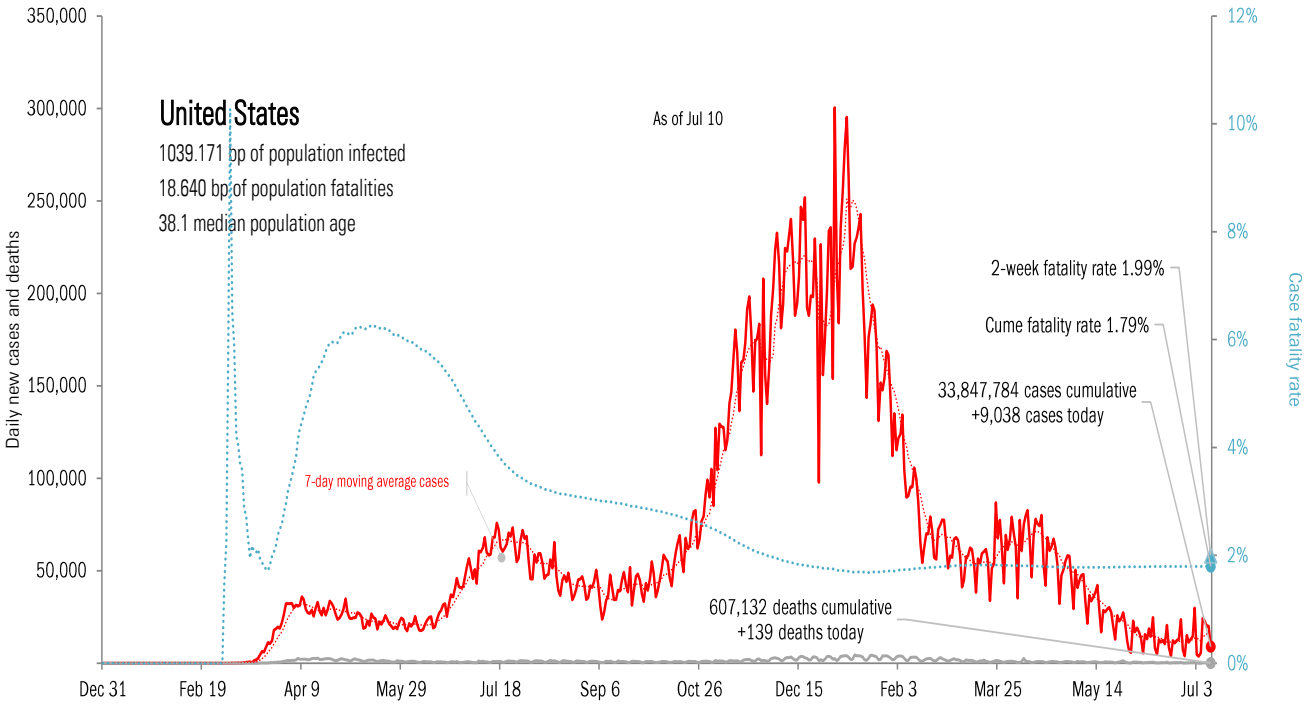
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	+5,633	CA	+57	FL	+186	CA	3,834,068	CA	63,932	TX	257,212	RI	86%	MO	23%
CA	+2,008	FL	+28	TX	+69	TX	3,016,891	NY	53,733	CA	242,568	MA	85%	AR	17%
MO	+1,597	AZ	+20	GA	+58	FL	2,395,687	TX	52,624	FL	191,728	MD	83%	UT	16%
TX	+1,371	TX	+18	CA	+51	NY	2,119,692	FL	38,088	NY	137,112	MO	83%	NV	15%
AZ	+807	CO	+11	AR	+37	IL	1,395,497	PA	27,743	GA	110,516	PA	82%	TX	10%
NY	+732	NY	+7	MS	+26	PA	1,218,490	NJ	26,501	PA	92,146	DC	80%	WY	10%
AL	+534	PA	+7	IL	+25	GA	1,139,396	IL	25,730	OH	88,387	GA	80%	FL	10%
CO	+489	MO	+5	LA	+23	OH	1,114,036	GA	21,486	IL	83,152	MN	79%	OK	9%
NJ	+311	NJ	+5	NV	+19	NJ	1,025,788	MI	21,059	KY	78,941	NV	79%	ID	9%
OH	+299	AL	+4	OH	+17	NC	1,017,435	OH	20,380	MI	73,531	FL	78%	MS	9%
	+13,781		+162		+511		18,276,980		351,276		1,355,293				
All states	+14,671		+167		+650	All states	33,847,784		607,132		2,415,106	All states	70%		67%
Top ten	94%		97%		79%	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	
FL	-3,273	FL	-47	NY	-24	CO	+30 bp
AR	-1,155	MI	-28	MO	-23	MP	+20 bp
LA	-969	WI	-24	AZ	-17	PR	+20 bp
TX	-933	TX	-21	OR	-13	FL	+20 bp
GA	-904	GA	-16	WY	-12	NJ	+20 bp



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

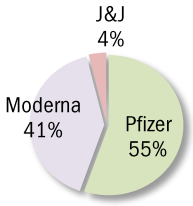
Rolling out the vaccines in the US and the world

US overall	Total				Today
Doses distributed	399,594,415				+0.929 million
Doses administered	343,371,738				+0.609 million
Administered	**One dose**	**% Pop**	**Immune**	**% pop**	**New immune today**
Total population	188,562,181	56%	163,174,189	49%	+0.330 million
Age 12 to 17	9,335,011	37%	7,245,013	29%	+0.063 million
Age 18 to 64	128,884,088	63%	111,092,127	55%	+0.226 million
Age 65 and over	50,119,449	92%	44,708,547	82%	+0.040 million

Immunity	Full	Partial
US	47.5%	55.0%
UK	50.9%	67.5%
France	36.1%	52.3%
Spain	44.9%	58.9%
Germany	41.8%	57.8%
Italy	37.5%	59.2%
Australia	8.8%	26.5%
Israel	60.0%	66.2%
Canada	42.5%	69.4%
Japan	16.8%	28.5%
Africa	1.3%	2.9%
India	5.3%	22.0%
Brazil	14.1%	40.1%

Global data differs from sources, timing

China NA



At today's dosing pace,
every American >18 immune in
224 days
by Feb 20, 2022

60.3% of population >18 immunized
11.5% previously tested positive
71.9% vs 60% adult herd immunity*

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

Best
Middle
Worst

AK		
61.5%		
50.3%		
44.4%		

											ME
					WI				VT	NH	73.6%
					56.0%				78.9%	72.7%	67.1%
					54.3%				74.4%	63.4%	62.4%
					50.6%				66.3%	57.2%	
WA	ID	MT	ND	MN	IL	MI		NY	MA		
65.8%	50.5%	55.7%	50.0%	61.5%	62.0%	61.9%		65.8%	74.5%		
62.3%	40.0%	48.2%	44.3%	57.5%	60.2%	51.9%		60.9%	71.1%		
55.8%	36.6%	43.4%	39.3%	52.6%	47.0%	47.8%		55.2%	62.5%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI	
71.1%	54.0%	47.9%	58.3%	58.6%	53.5%	56.4%	66.1%	69.4%	70.6%	75.1%	
59.3%	50.8%	40.3%	51.1%	51.9%	45.7%	48.7%	63.6%	63.8%	67.8%	65.3%	
54.6%	42.8%	35.7%	46.0%	48.6%	43.0%	45.4%	50.6%	56.3%	61.6%	59.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE		
66.2%	53.8%	64.6%	57.4%	53.0%	53.7%	56.6%	64.7%	74.6%	70.0%		
62.5%	49.5%	58.7%	52.1%	45.8%	50.1%	45.6%	59.8%	62.8%	58.9%		
50.9%	38.1%	52.9%	48.2%	39.7%	44.3%	38.7%	52.8%	57.1%	51.0%		
	AZ	NM	KS	AR	TN	NC	SC	DC			
	59.6%	60.5%	56.6%	50.6%	49.8%	59.5%	55.2%	79.8%			
	51.2%	63.7%	49.8%	42.8%	42.8%	49.3%	44.9%	62.2%			
	43.9%	55.6%	42.6%	34.8%	37.9%	42.5%	39.4%	53.3%			
			OK	LA	MS	AL	GA				
			54.1%	46.8%	48.1%	52.7%	56.1%				
			45.5%	39.1%	37.1%	40.6%	44.0%				
			39.0%	35.7%	33.3%	33.2%	37.1%				

HI								FL		PR
72.0%			TX					62.7%		69.3%
70.3%			58.9%					54.7%		66.2%
52.5%			49.0%					46.9%		57.3%
			42.1%							

As of Jul 11

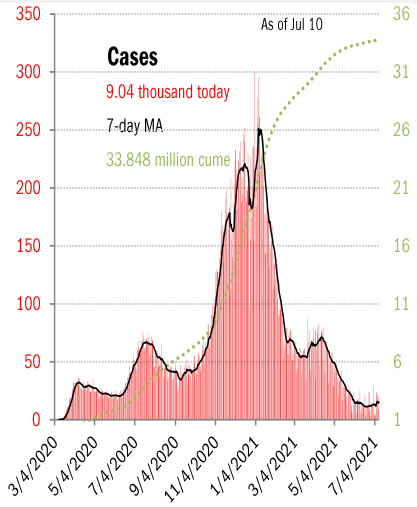
* Includes persons >18 fully immunized or previosuly tested positive, no overlap. Disregards untested positives, natural immunities.

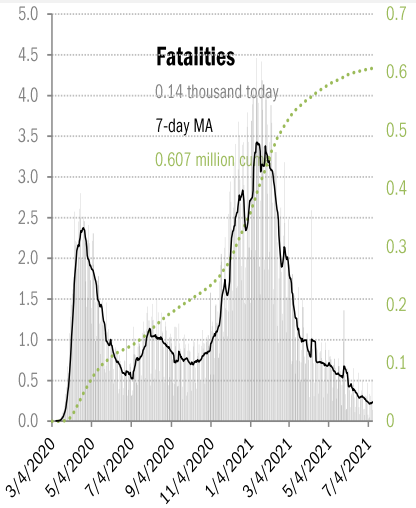
** One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

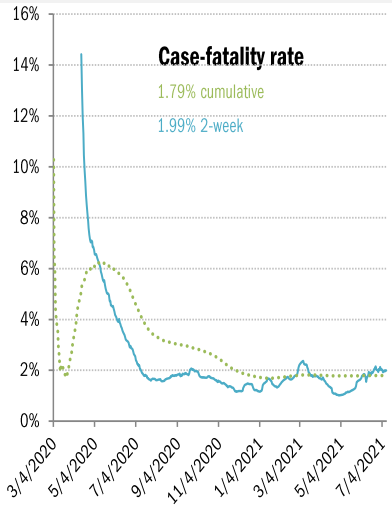
Source: CDC, CDC, Our World in Data, TrendMacro calculations

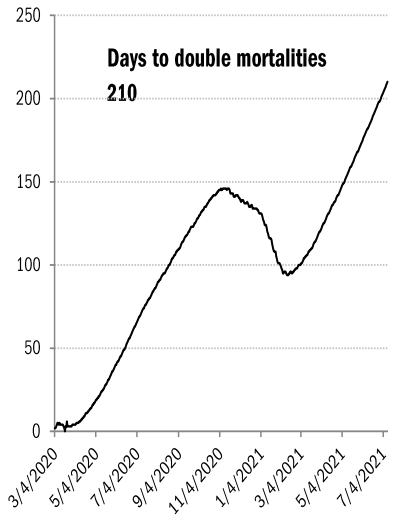
US deep-dive

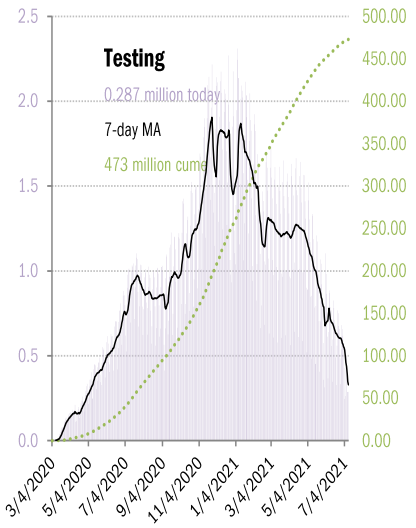
National and state-by-state data do not line up because of different sources

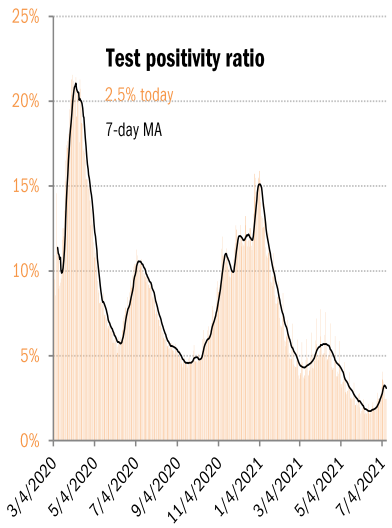


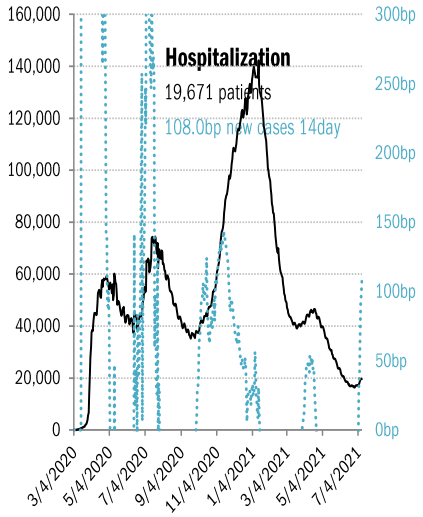


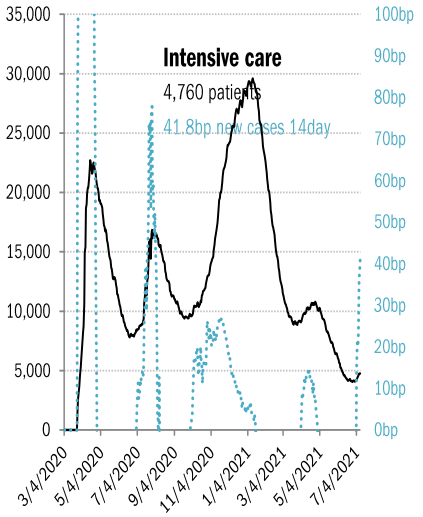


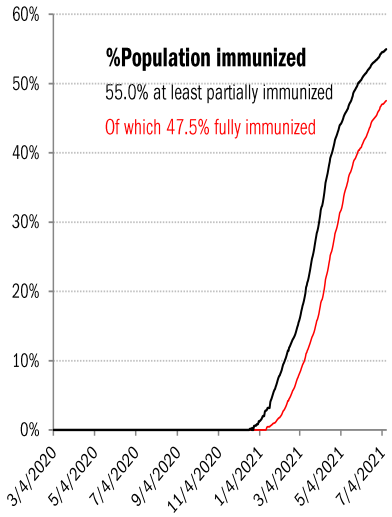












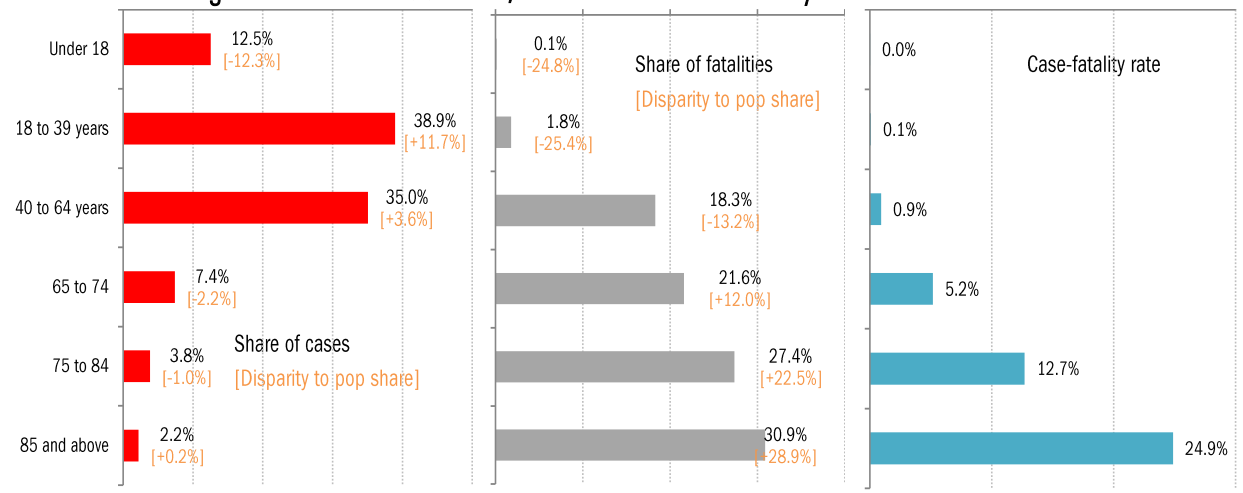
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

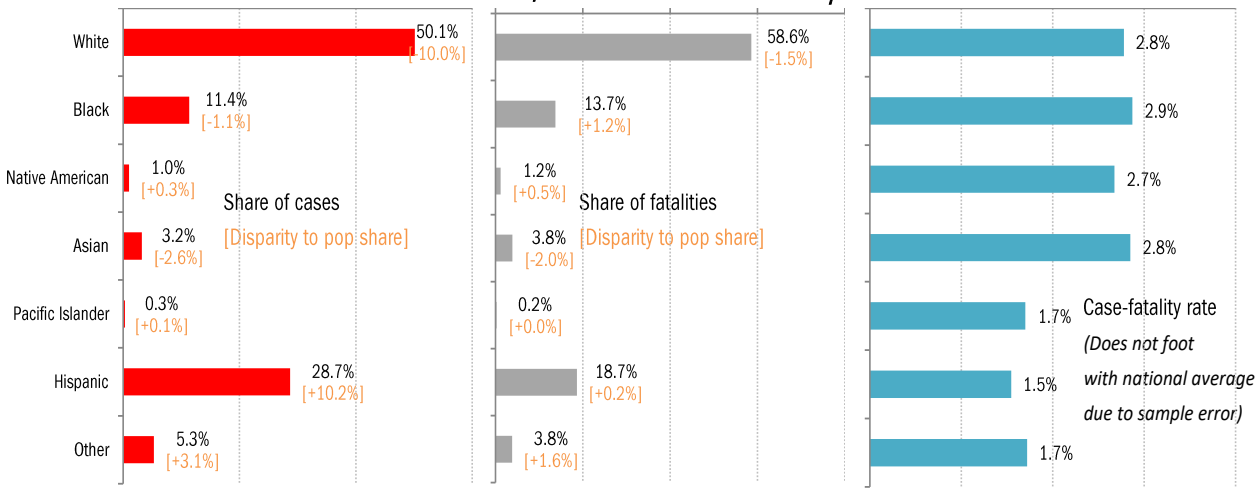
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



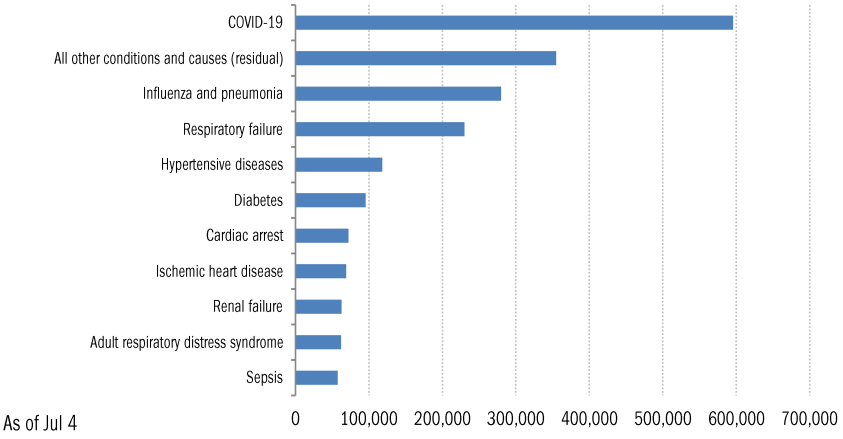
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jul 4

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

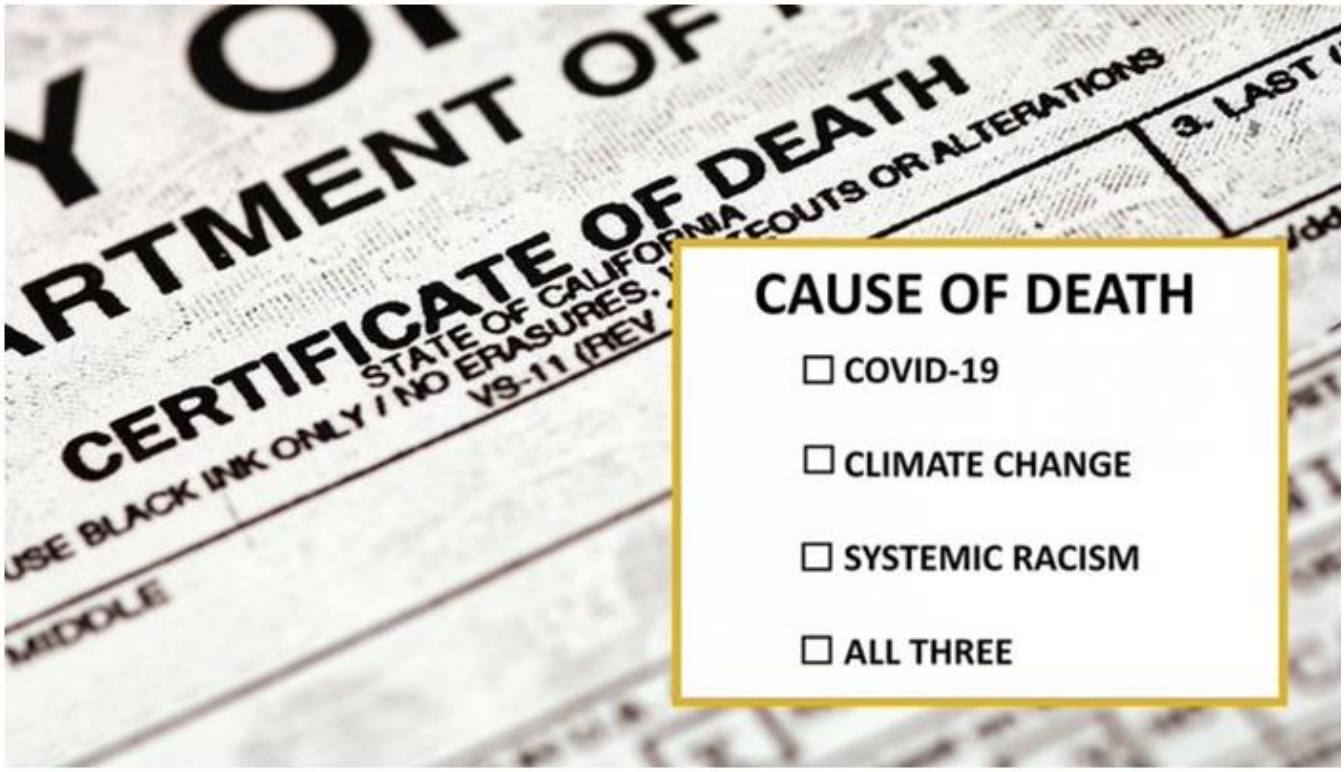
[Woman Infected With Two Covid-19 Variants Highlights Next Risk]
Suzi Ring
Bloomberg
July 10, 2021

[Unmasking Schoolchildren Could Improve Public Health]
Stephen L. Carter
Bloomberg
July 11, 2021

[People in England 'Expected' to Wear Masks After Curbs Lifted]
Emily Ashton
Bloomberg
July 11, 2021

[Indonesia's Kimia Farma to Start Selling Vaccines to Public]
Grace Sihombing
Bloomberg
July 11, 2021

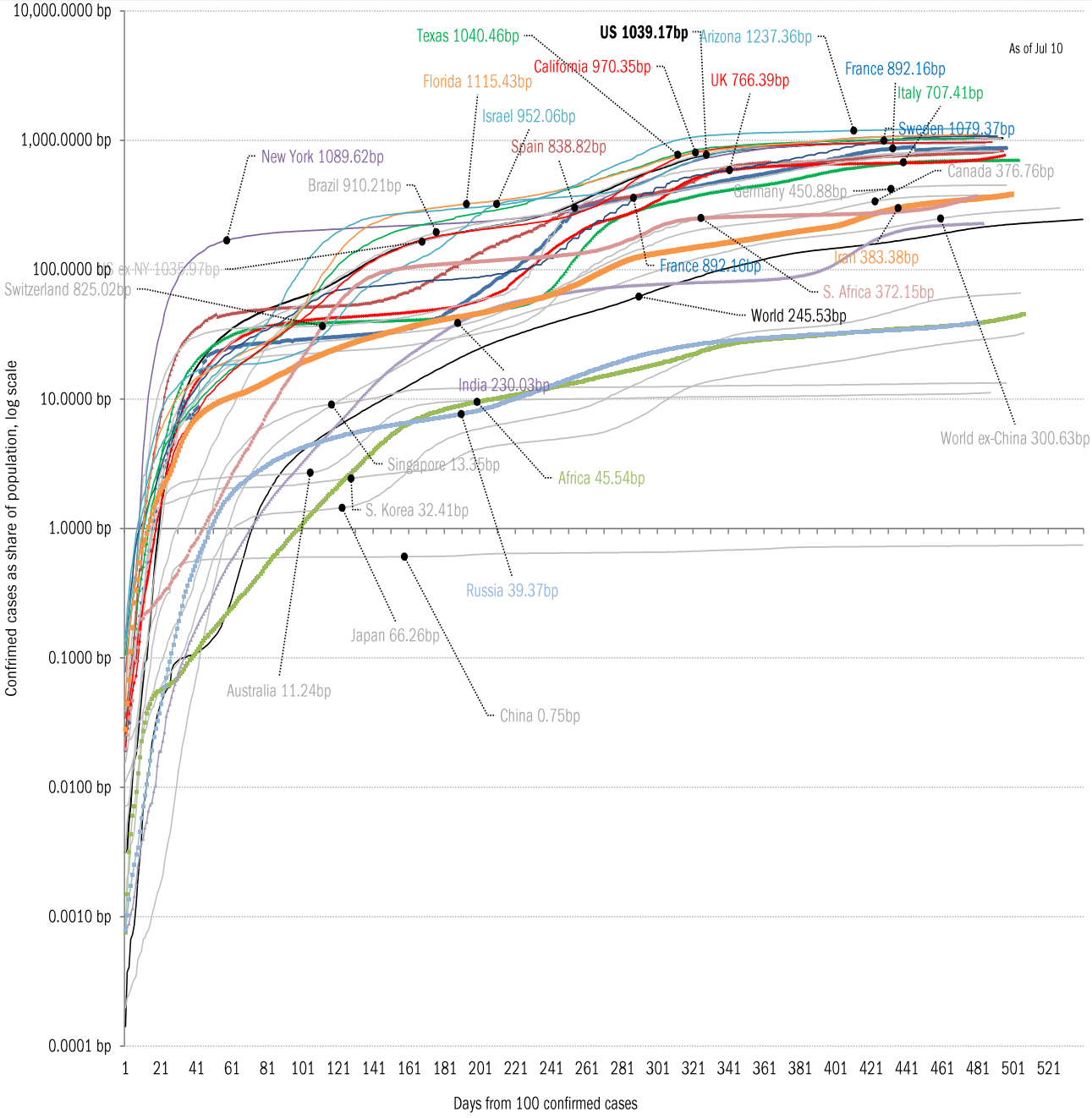
Meme of the day



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

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

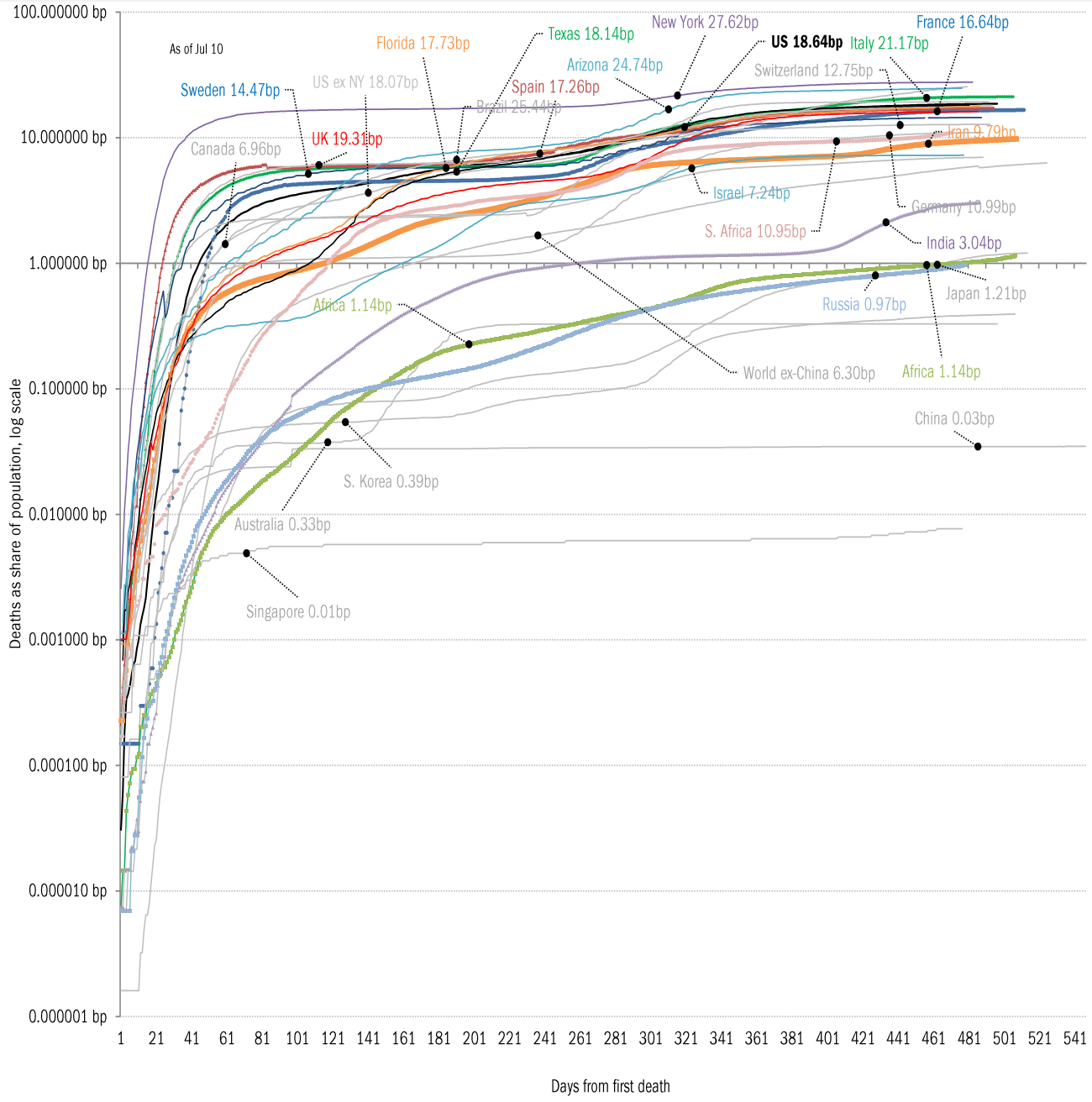
Share of infected population from first day with 100 confirmed cases, log scale



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

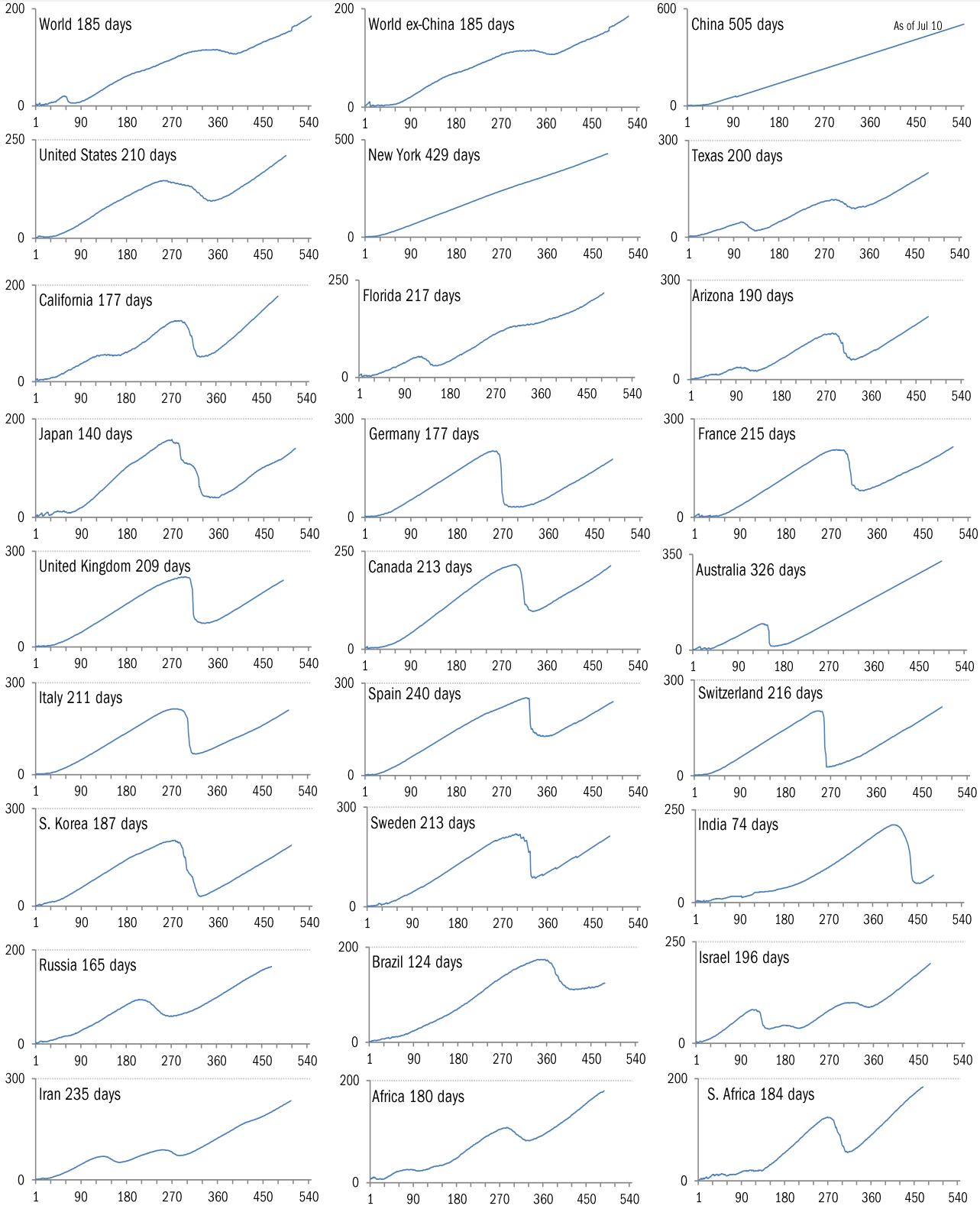


Source: Johns Hopkins, TrendMacro calculations

"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

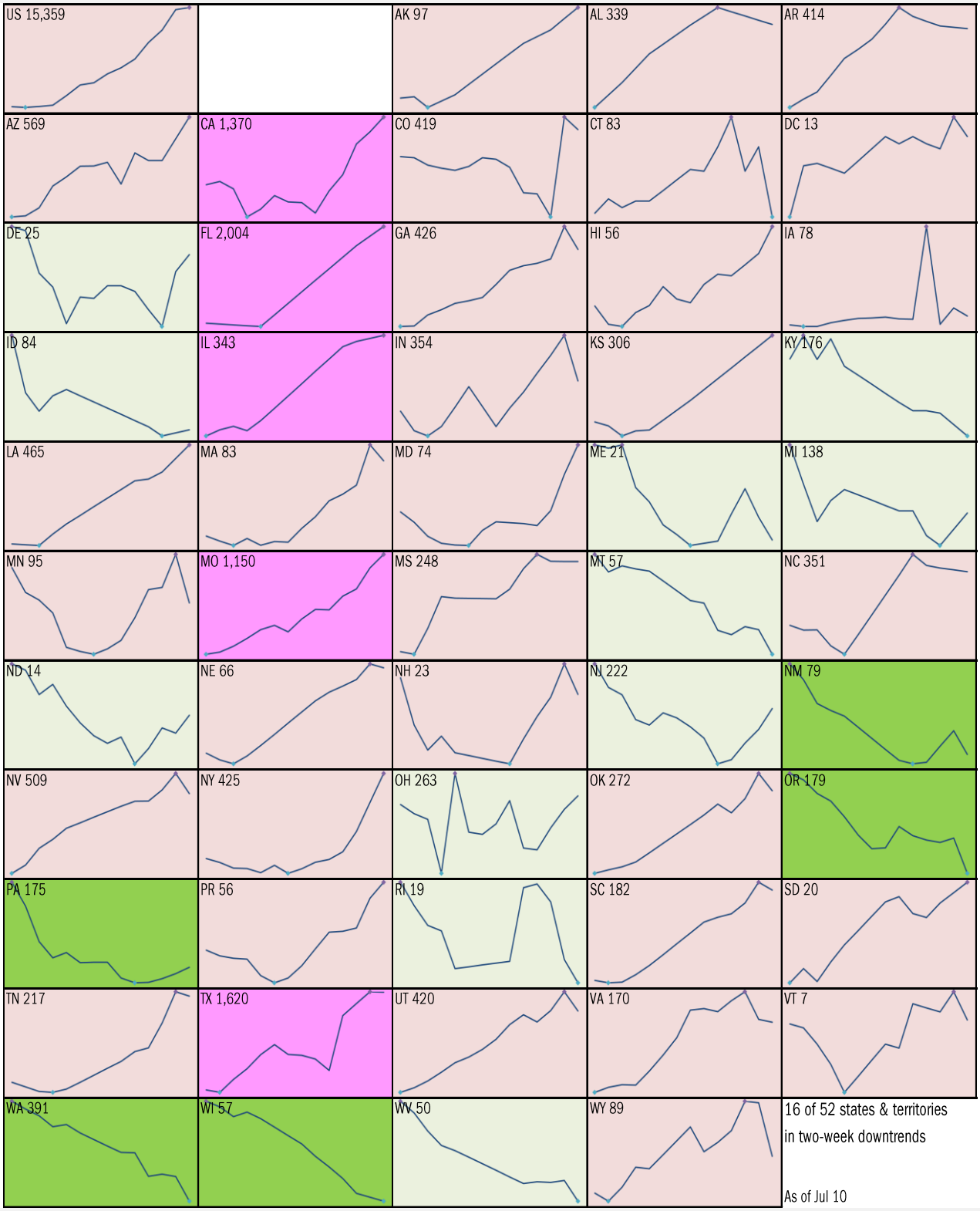


Source: Johns Hopkins, TrendMacro calculations

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

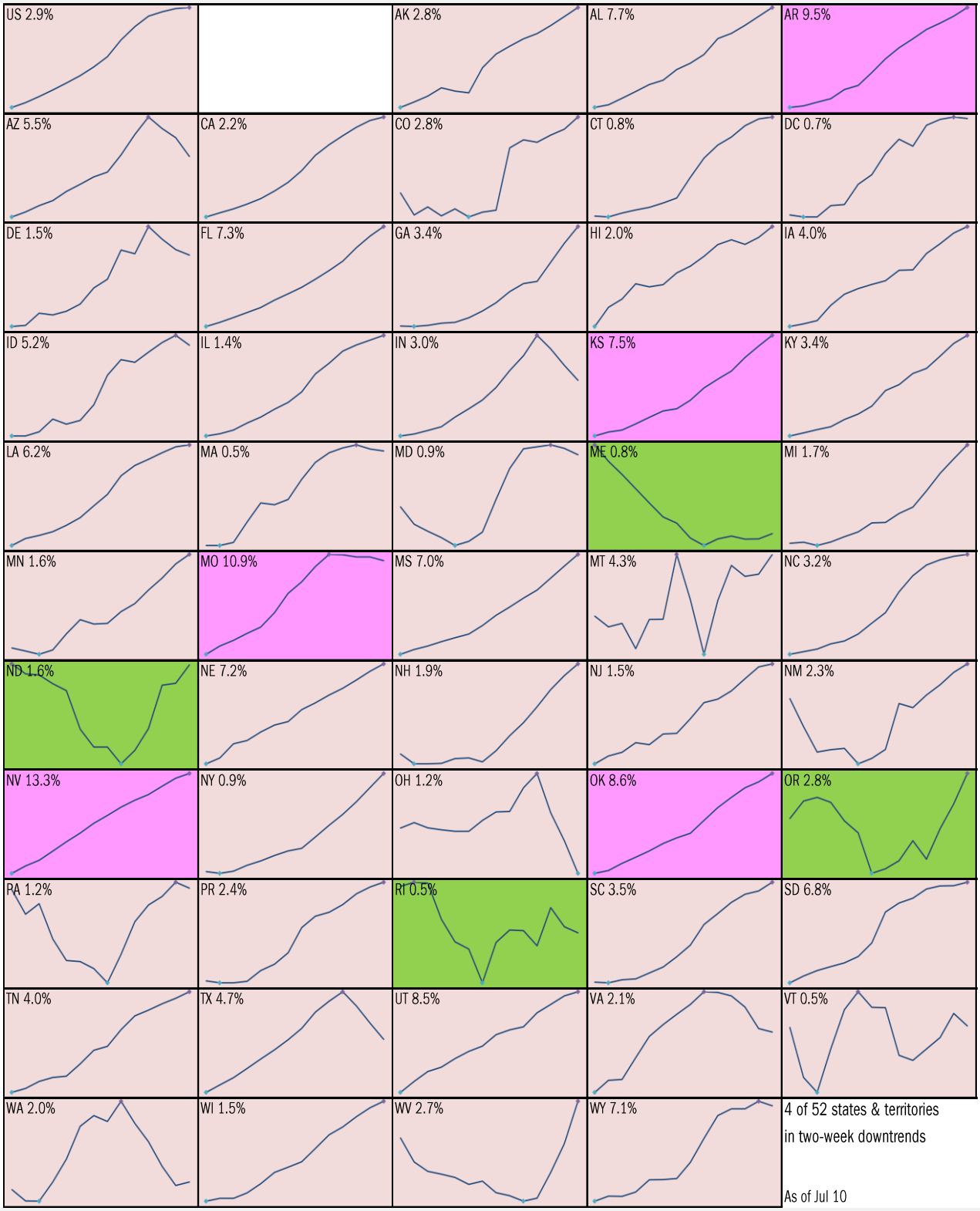


Source: Johns Hopkins, TrendMacro calculations

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

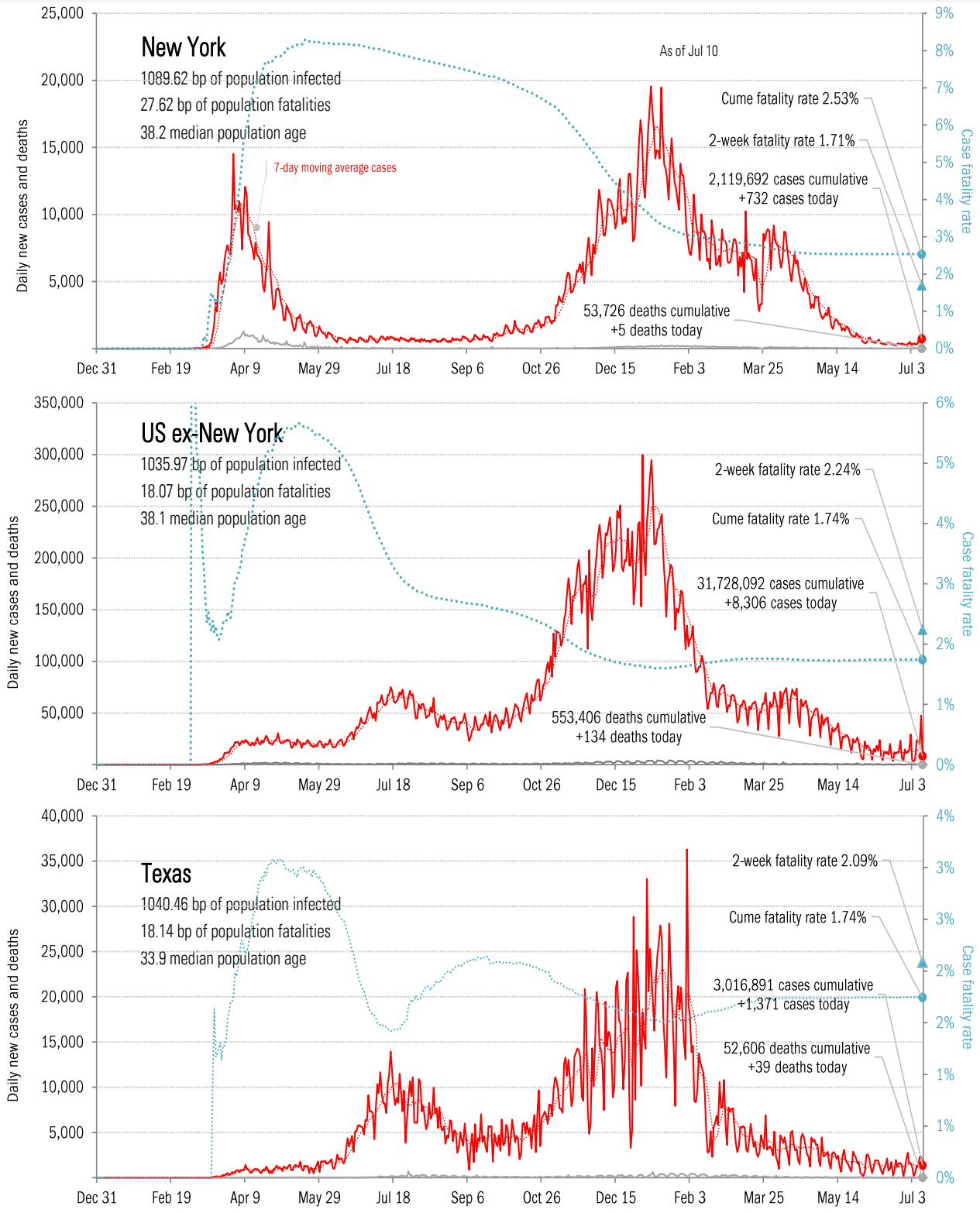
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst



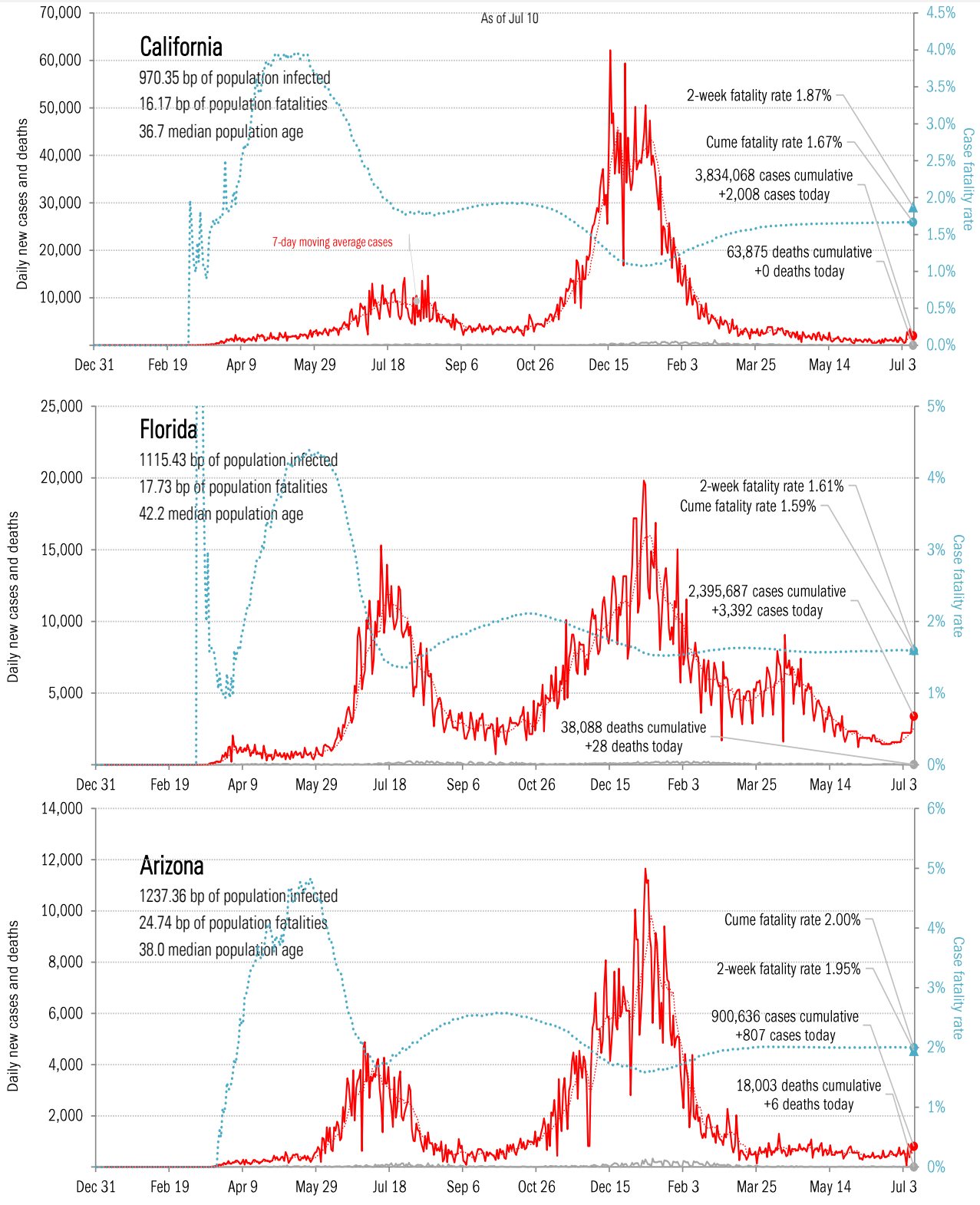
Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande



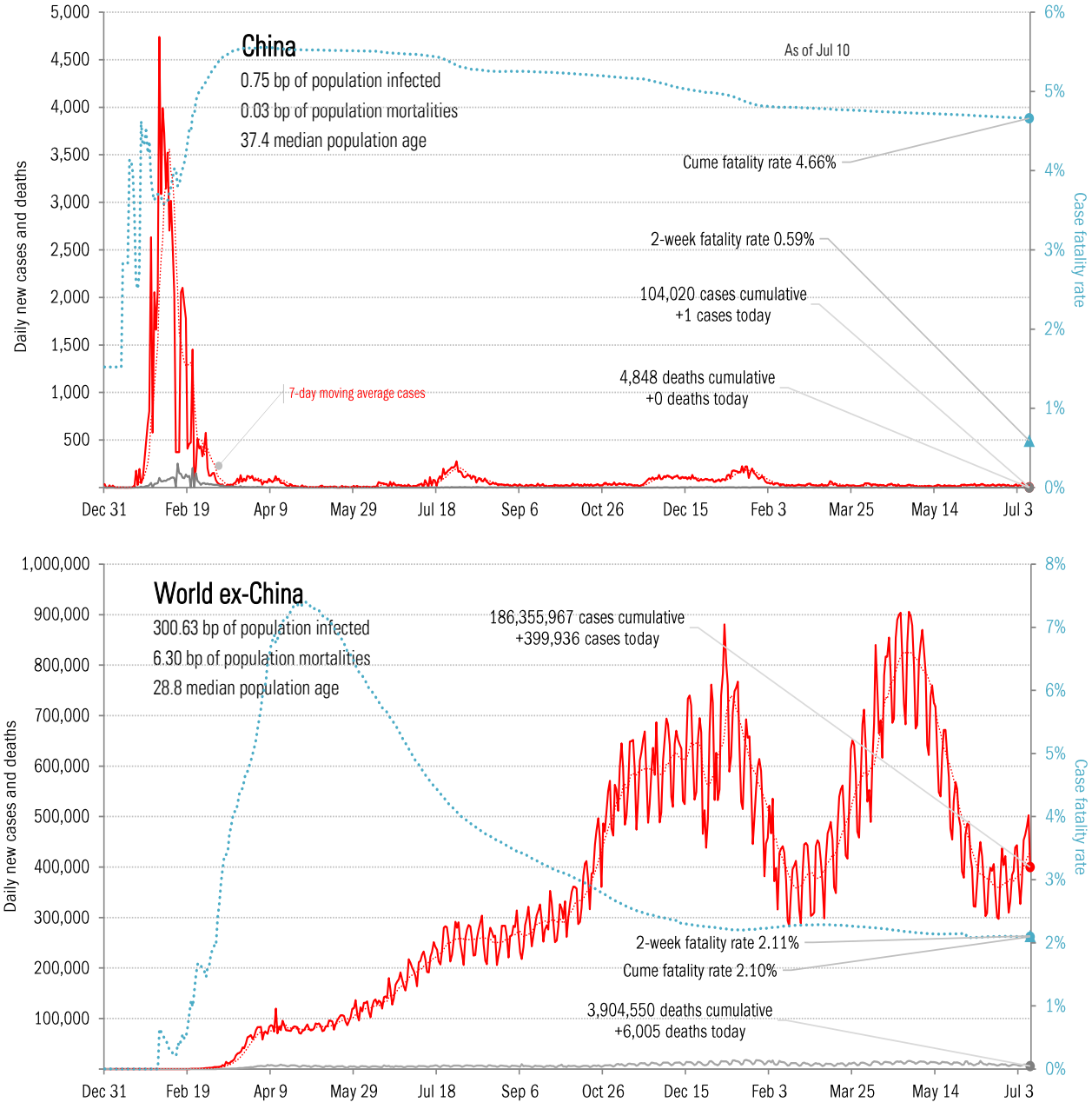
Source: Johns Hopkins, TrendMacro calculations

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



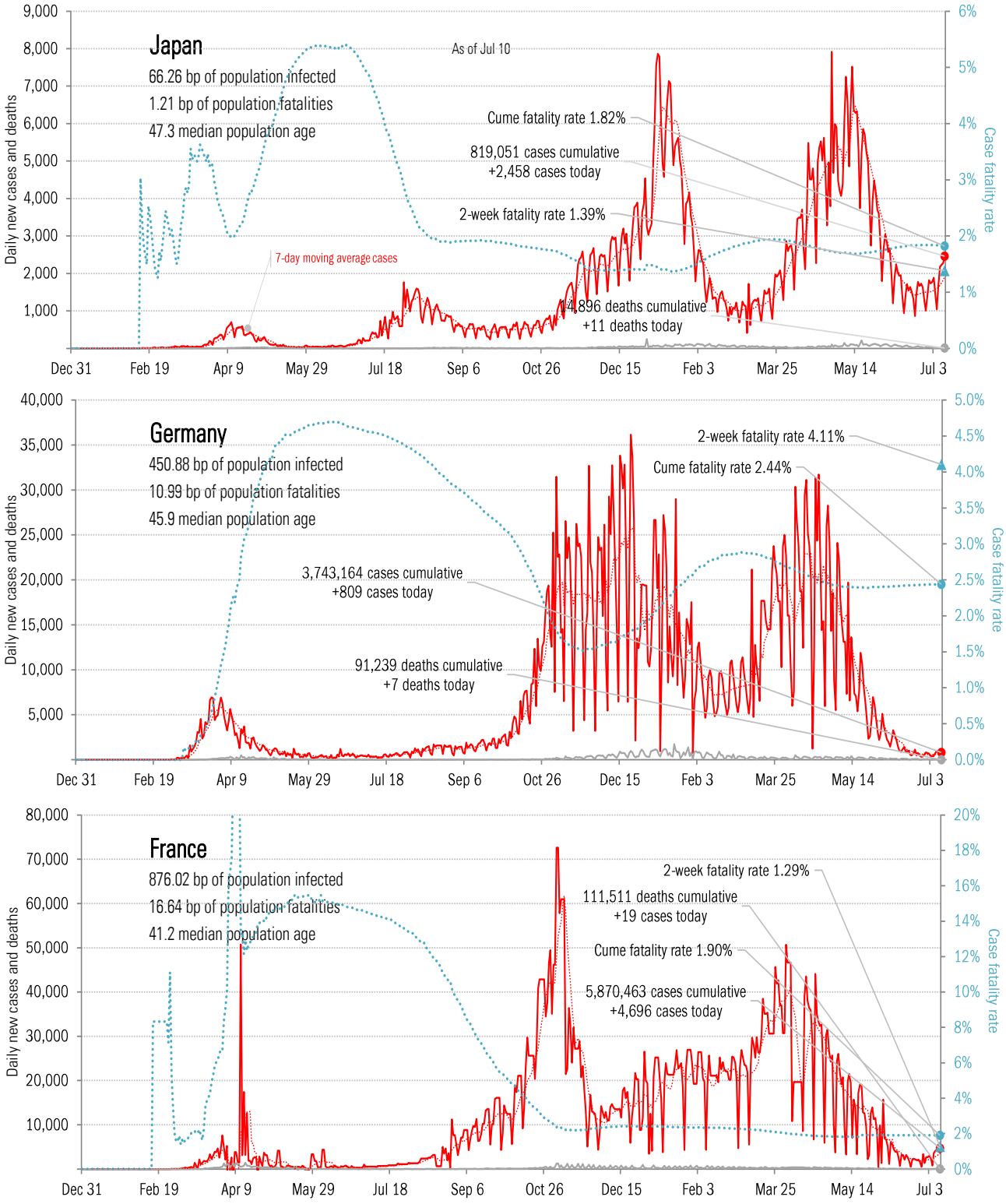
Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else



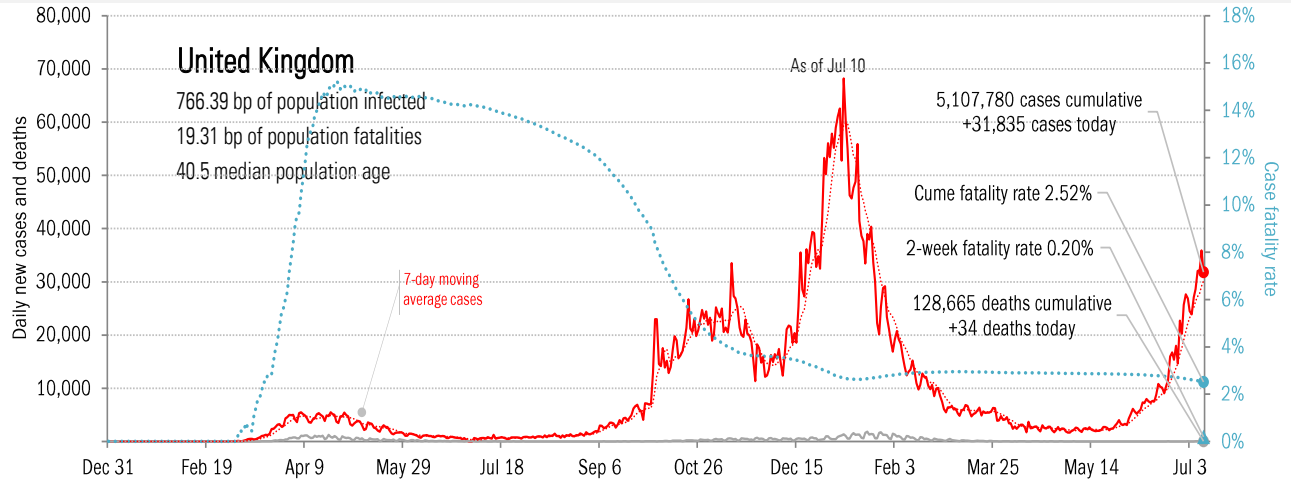
Source: Johns Hopkins, TrendMacro calculations

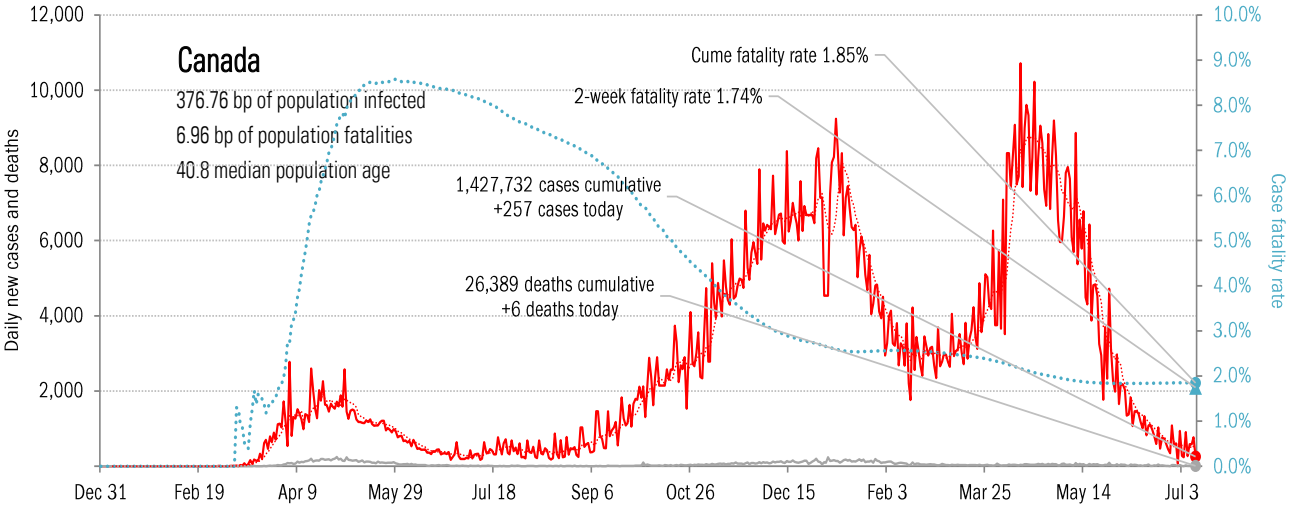
Impact in the largest economies

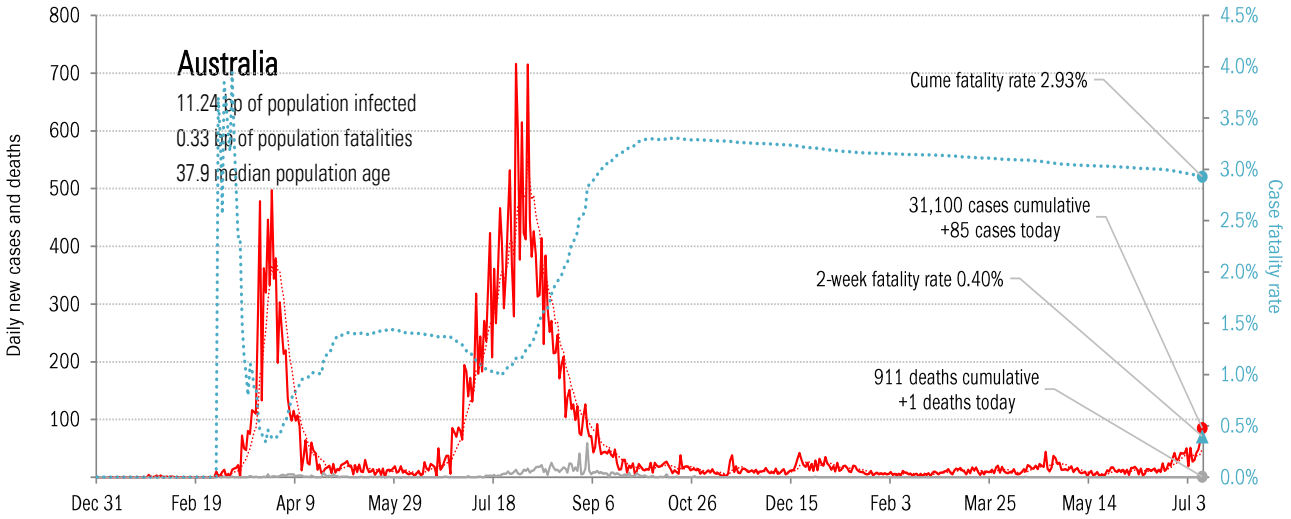


Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

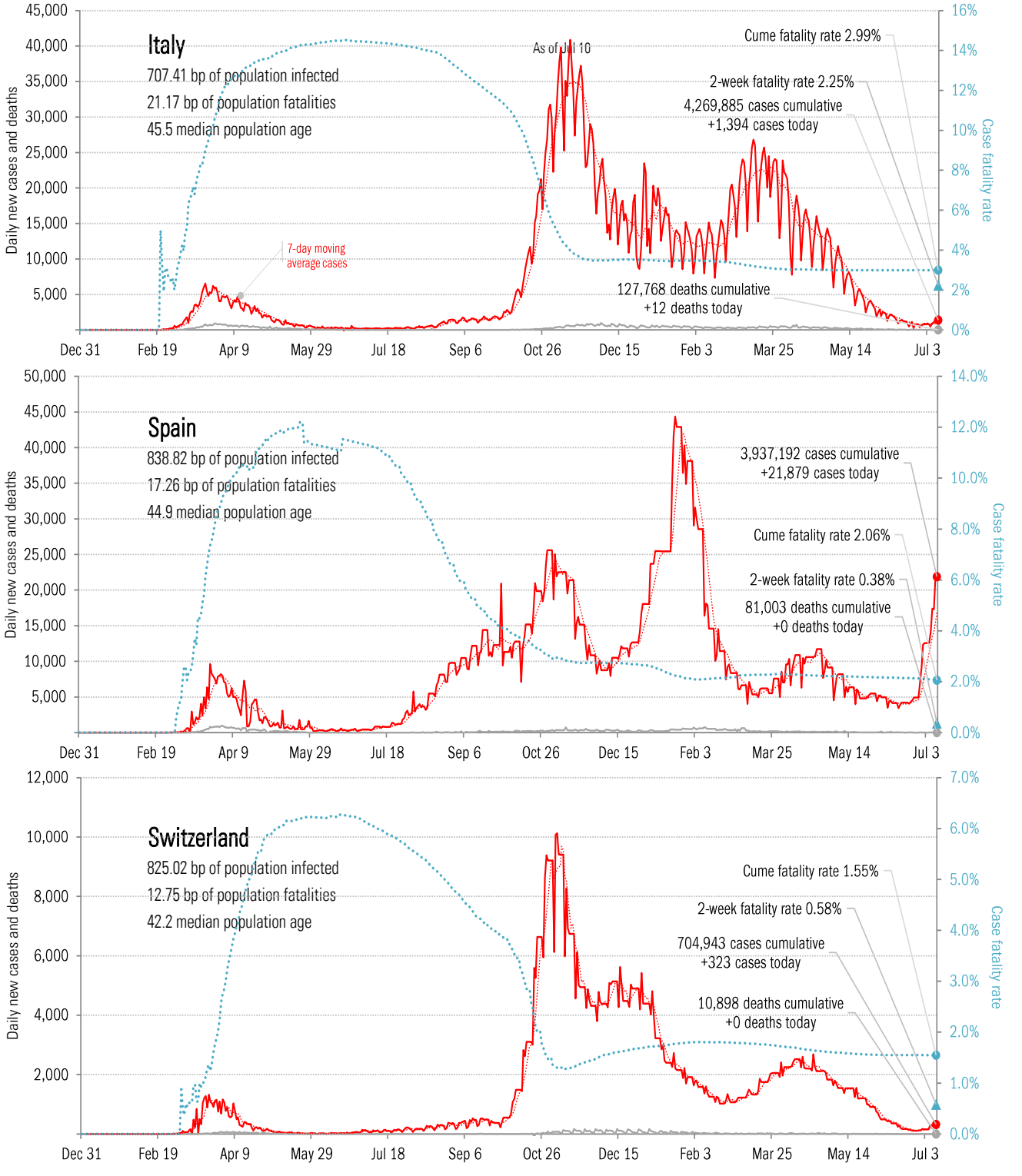






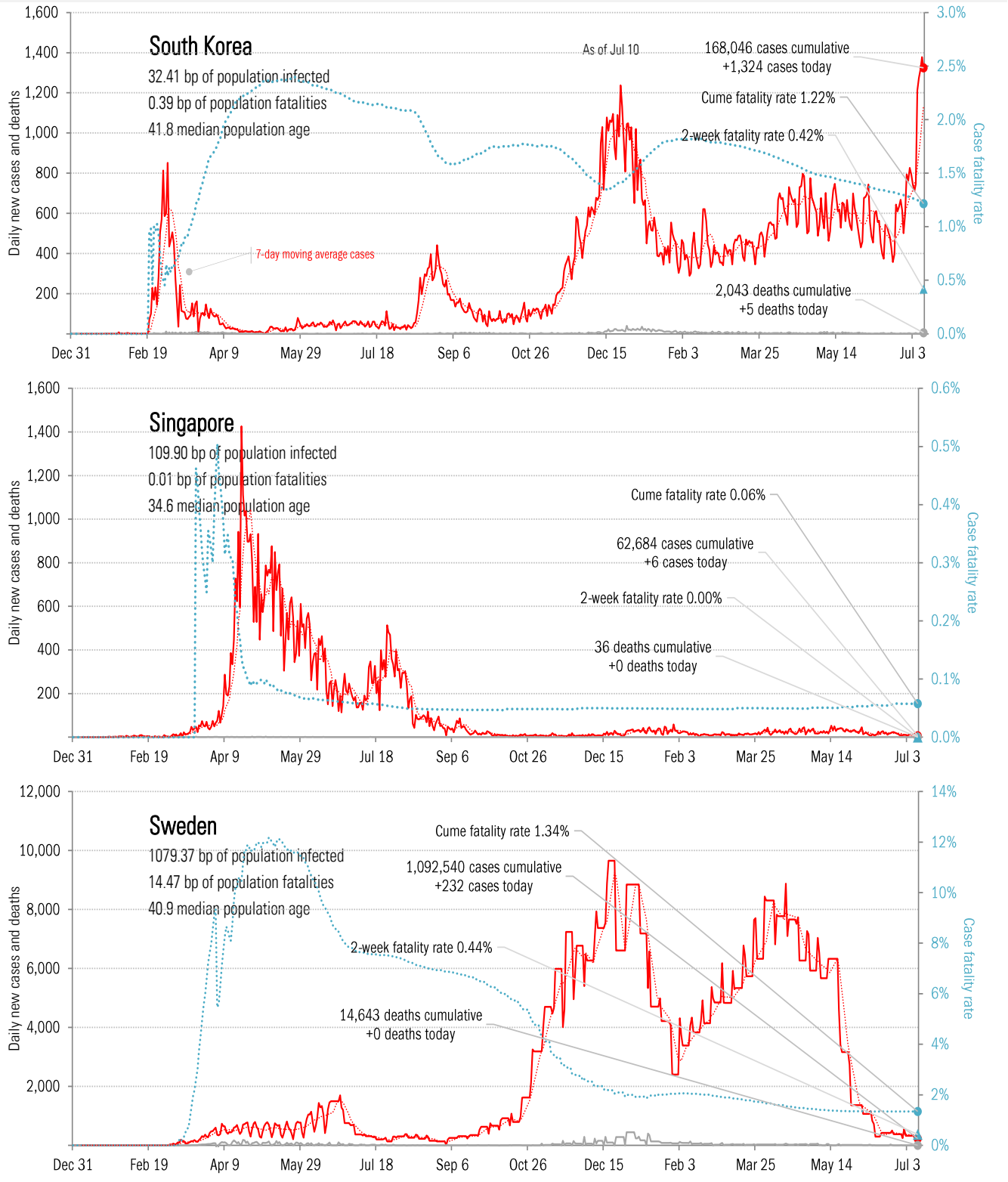
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



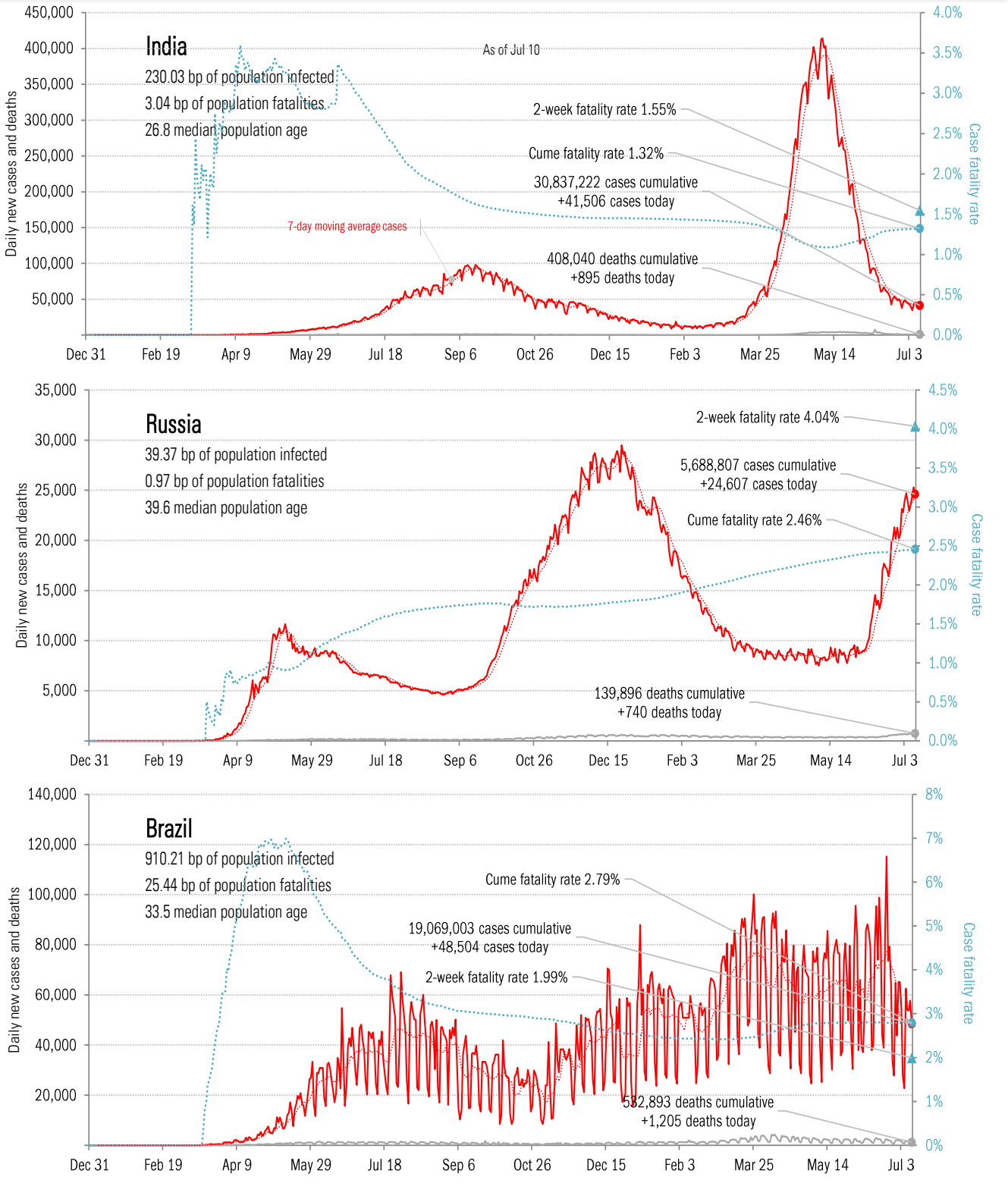
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



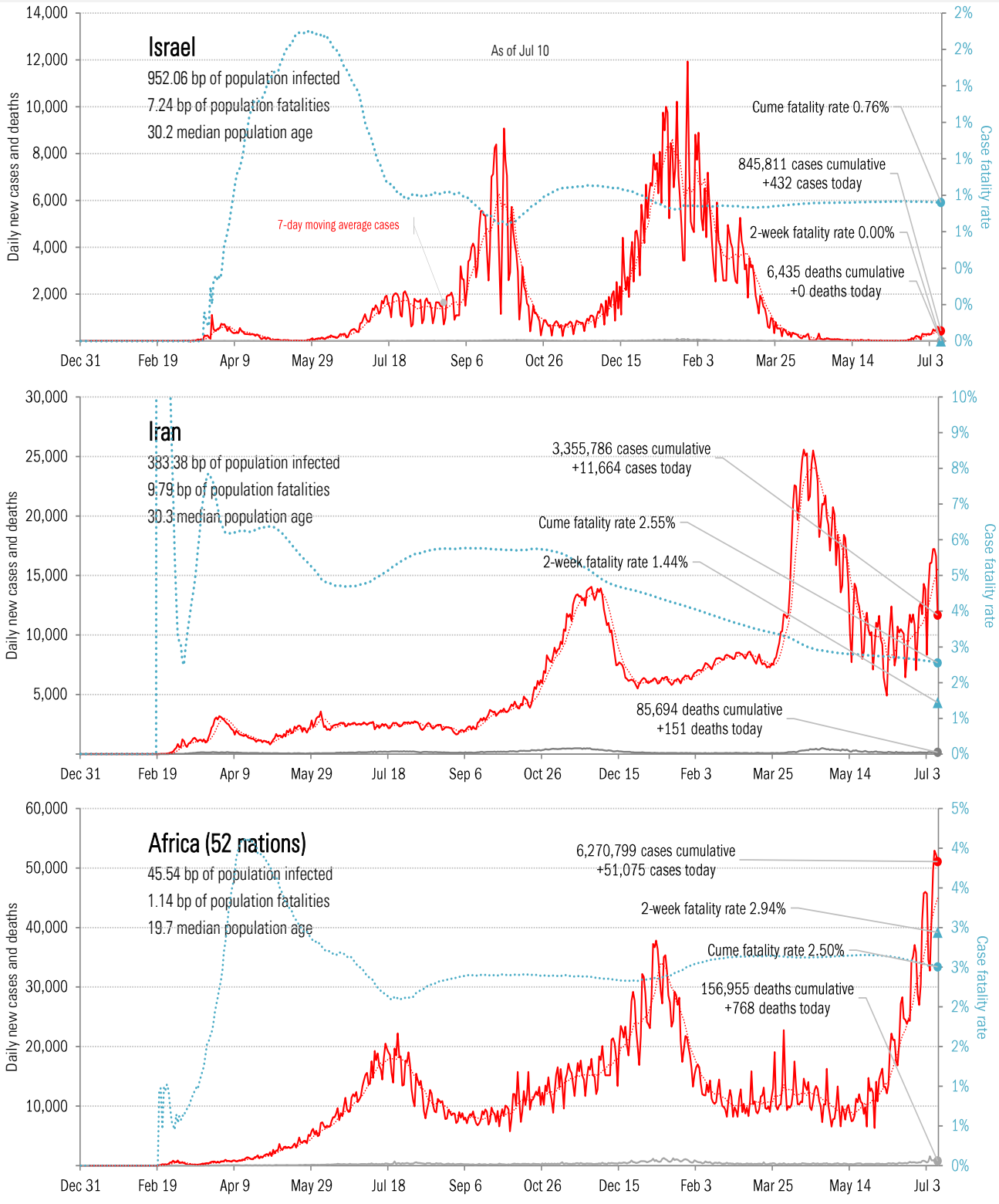
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



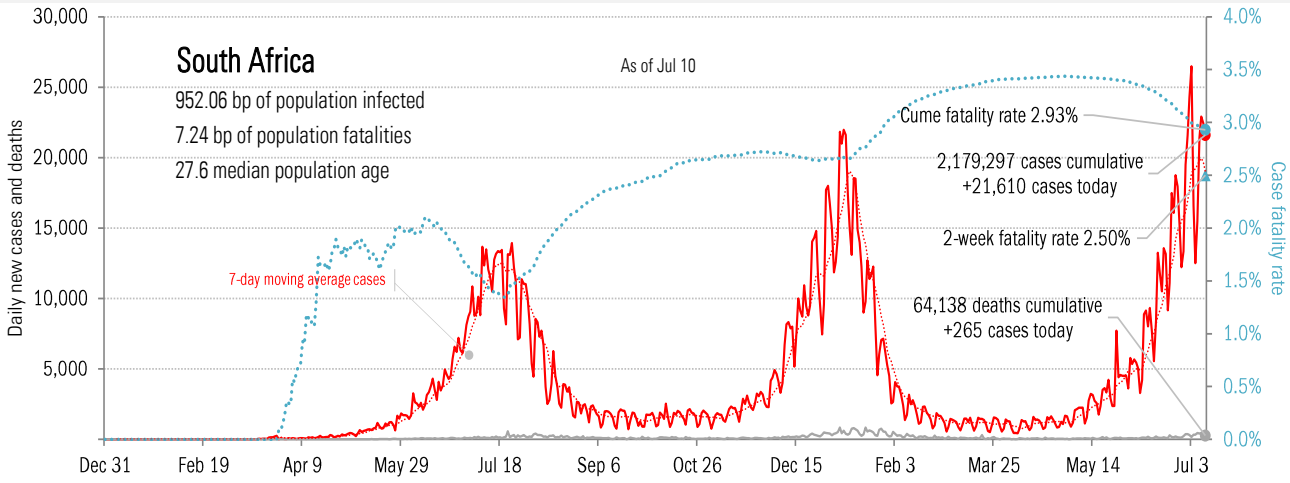
Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued



Source: Johns Hopkins, TrendMacro calculations