Trend Macrolytics, LLC
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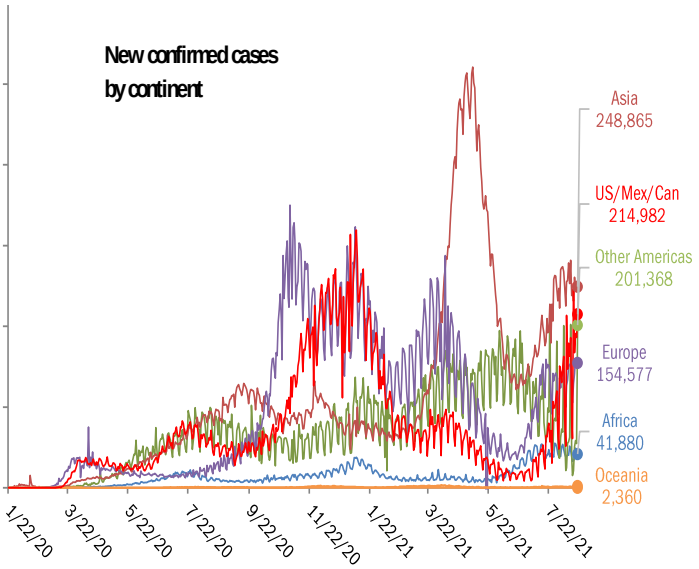
Data Insights: Covid-2019 Monitor

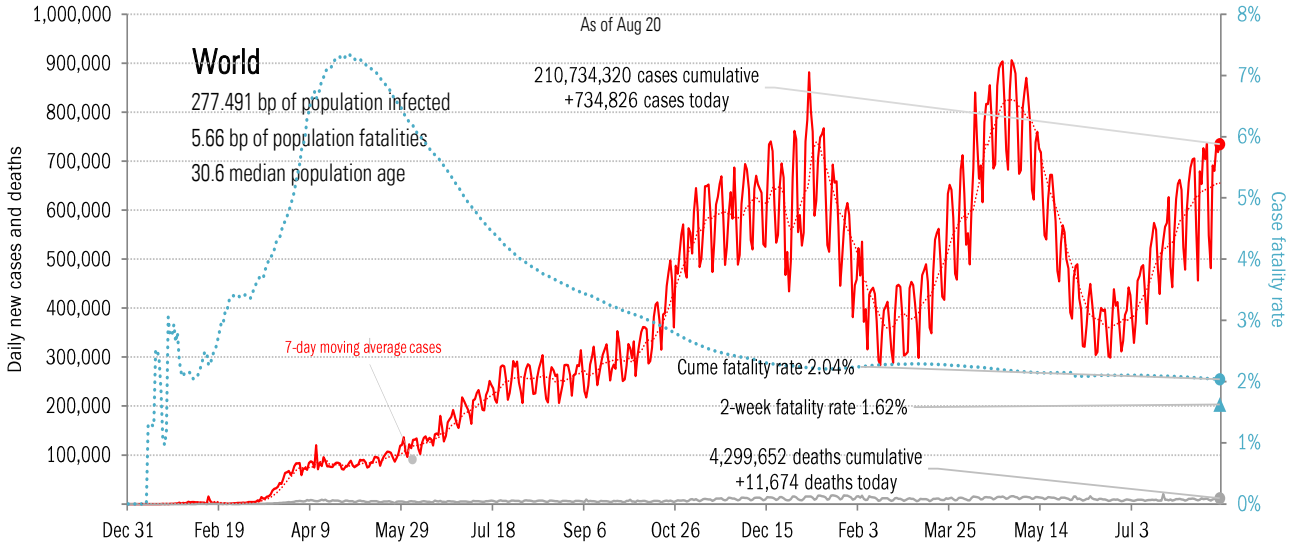
Saturday, August 21, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+190,250	United States	+2,677
United Kingdom	+37,128	Indonesia	+1,348
India	+34,457	Brazil	+870
Brazil	+33,887	Mexico	+775
Iran	+28,833	Russia	+764
Japan	+25,892	Iran	+555
Malaysia	+23,564	Vietnam	+390
France	+23,482	India	+375
Mexico	+21,734	Philippines	+317
Russia	+20,402	South Africa	+289
	+439,629		+8,360
World	+734,826	World	+11,674
Top ten	60%	Top ten	72%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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The US scorecard

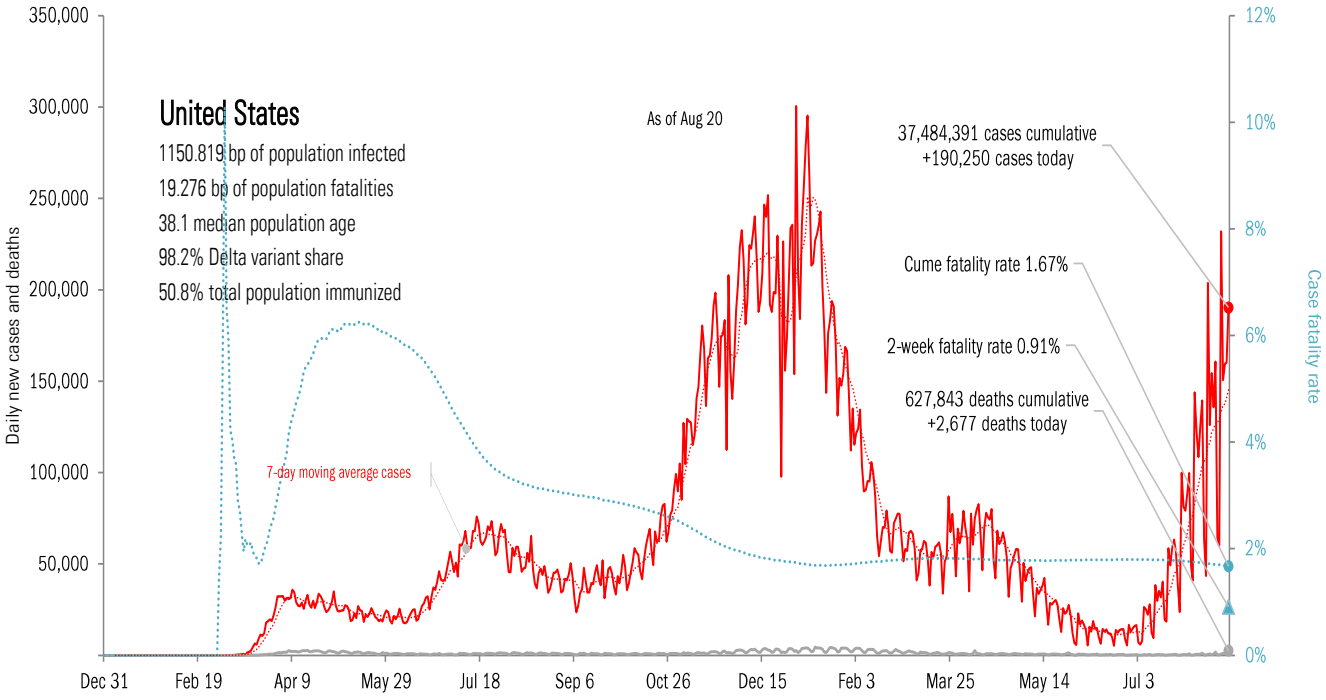
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	+25,908	TX	+192	GA	+228	CA	4,214,548	CA	65,021	TX	302,428	GA	90%	MS	59%
TX	+22,928	FL	+129	TX	+158	TX	3,442,026	TX	55,055	CA	268,343	RI	89%	FL	54%
FL	+21,534	CA	+101	KY	+96	FL	2,942,283	NY	53,974	FL	256,483	FL	86%	AL	53%
GA	+9,581	KS	+98	IN	+85	NY	2,227,140	FL	41,021	NY	143,649	MA	85%	LA	51%
TN	+7,232	LA	+67	CA	+78	IL	1,482,369	PA	28,059	GA	127,484	MD	84%	GA	51%
NC	+6,631	MS	+54	DC	+78	GA	1,307,084	NJ	26,739	PA	95,832	MO	84%	AR	49%
LA	+5,922	NC	+54	CO	+60	PA	1,267,612	IL	26,150	OH	94,064	NV	84%	TX	49%
KS	+5,495	AZ	+53	NC	+59	OH	1,175,340	GA	22,199	IL	89,600	PA	83%	OK	43%
SC	+5,228	GA	+48	SC	+53	NC	1,144,894	MI	21,393	KY	88,601	SC	82%	ID	41%
MS	+5,048	TN	+46	OK	+41	NJ	1,070,698	OH	20,689	MI	76,348	AL	82%	MO	40%
	+115,507		+842		+936		20,273,994		360,300		1,542,832				
All states	+190,250		+1,320		+1144	All states	37,484,391		627,843		2,732,566	All states	70%		67%
Top ten	61%		64%		82%	Top ten	54%		57%		56%	Median	75%		22%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
PA	-1,364	CT	-16	FL	-168	MO	+40 bp
AR	-1,142	TX	-16	NY	-143	MS	+40 bp
NY	-995	AL	-14	TX	-111	LA	+30 bp
KY	-970	ME	-11	VA	-90	AL	+20 bp
OR	-827	SC	-11	TN	-45	AR	+20 bp



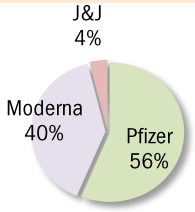
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	370,786,027				+1.029 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	205,311,400	61%	174,380,085	52%	+0.414 million
Age 12 to 17	11,762,628	49%	8,716,434	37%	+0.075 million
Age 18 to 64	141,005,524	69%	118,975,166	58%	+0.288 million
Age 65 and over	51,548,017	94%	45,871,990	84%	+0.049 million

Immunity	Full	Partial
US	50.8%	59.9%
UK	60.9%	70.0%
France	54.5%	69.6%
Spain	66.5%	75.8%
Germany	58.1%	63.3%
Italy	58.1%	68.4%
Australia	23.2%	41.5%
Israel	62.8%	68.0%
Canada	65.3%	73.1%
Japan	40.0%	51.6%
Africa	2.4%	4.5%
India	9.2%	32.3%
Brazil	25.1%	58.7%
China	54.0%	43.2%

Global data differs from sources, timing



State
At least partial immunity as % population
Full immunity as % population

Best
Middle
Worst

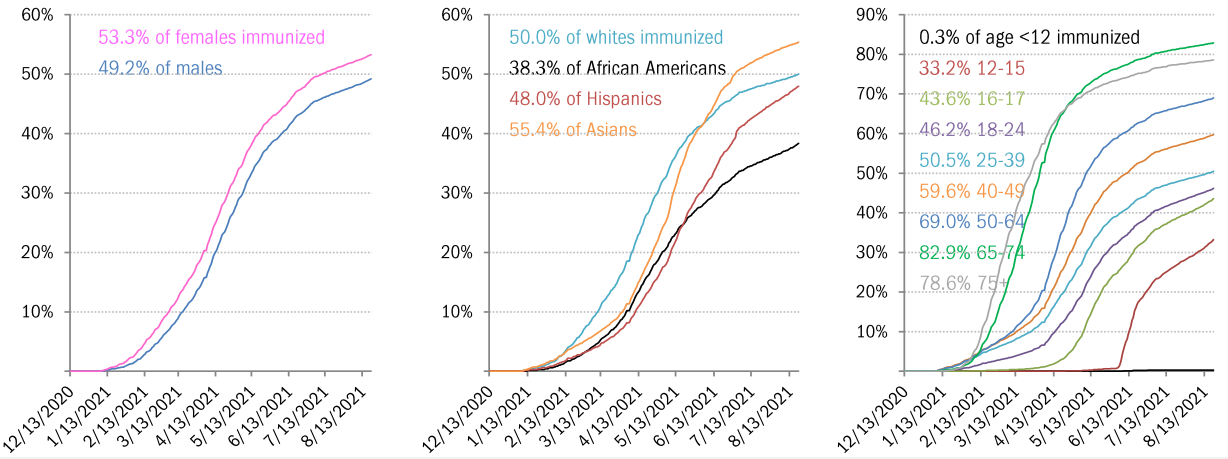
Every American >18 immune in
113 days
by Dec 11, 2021

63.8% of population >18 immunized
12.8% previously tested positive
76.6% vs 60% adult herd immunity

As of Aug 20

AK					WI					ME
53.1%					57.6%					70.3%
46.5%					52.9%					65.0%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
66.3%	43.0%	51.3%	47.2%	60.9%	64.8%	54.5%		65.9%	75.4%	66.3%
59.2%	38.3%	45.3%	41.0%	55.0%	50.2%	49.8%		58.9%	67.3%	59.1%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
62.7%	56.6%	43.9%	55.0%	55.3%	49.1%	51.6%	68.0%	68.6%	74.4%	
57.2%	46.4%	37.8%	48.3%	50.8%	45.4%	47.6%	54.0%	60.2%	65.1%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
67.5%	54.9%	62.4%	56.2%	51.5%	55.3%	46.7%	64.2%	67.0%	72.3%	70.1%
54.7%	46.5%	55.9%	50.8%	43.7%	47.2%	39.4%	56.1%	60.4%	64.9%	63.5%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	55.5%	68.2%	56.0%	51.5%	47.8%	54.0%	49.9%	66.3%	62.9%	
	46.8%	58.7%	46.9%	39.4%	40.6%	45.1%	42.1%	56.5%	54.2%	
			OK	LA	MS	AL	GA			
			51.4%	47.7%	44.8%	47.5%	49.5%			
			42.1%	39.4%	36.6%	36.1%	40.2%			
HI			TX					FL		PR
73.2%			55.4%					62.1%		72.0%
54.5%			45.9%					51.0%		61.8%

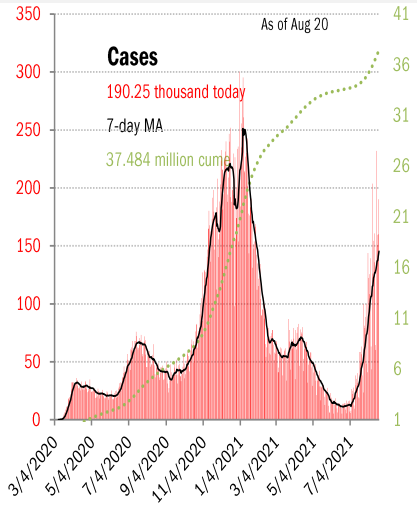
The demographics of US vaccination

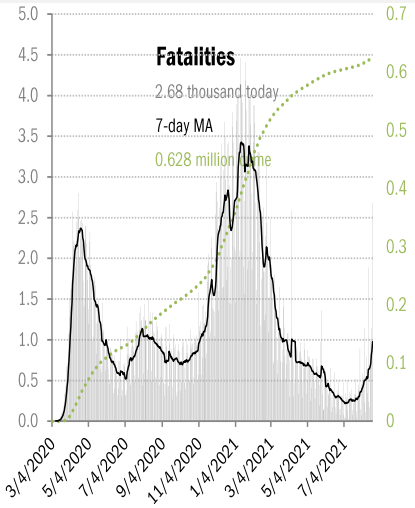


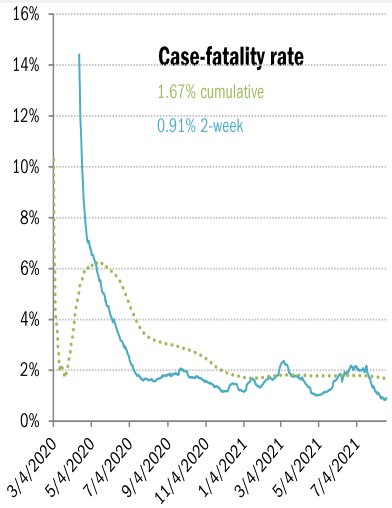
Source: CDC, CDC, Our World in Data, TrendMacro calculations

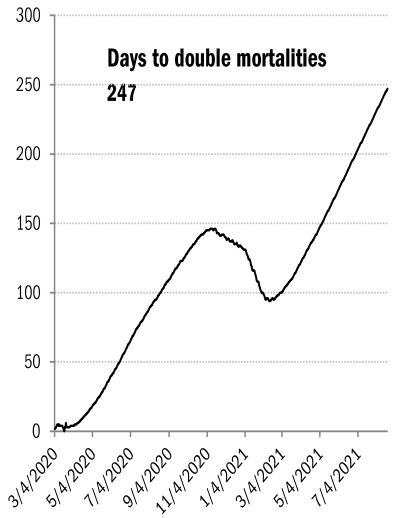
US deep-dive

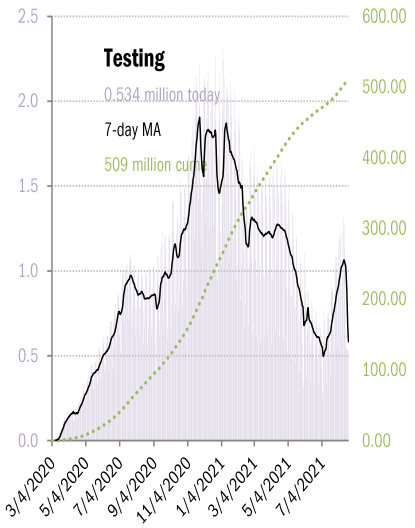
National and state-by-state data do not line up because of different sources

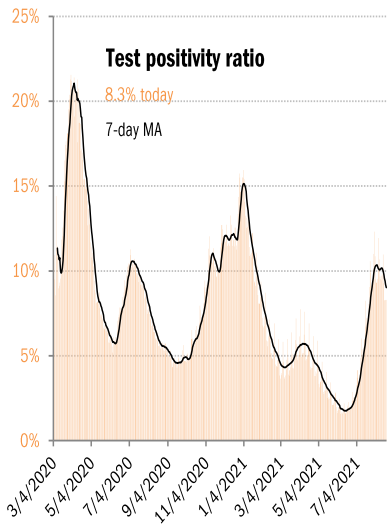


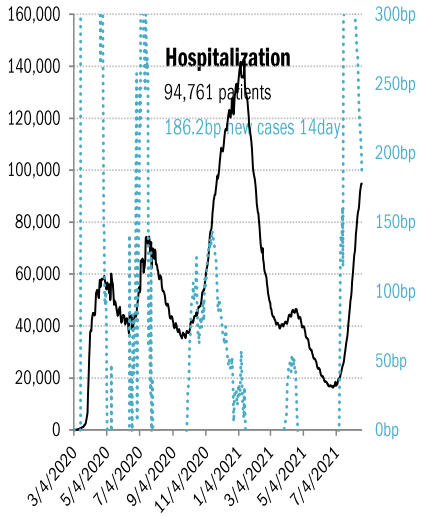


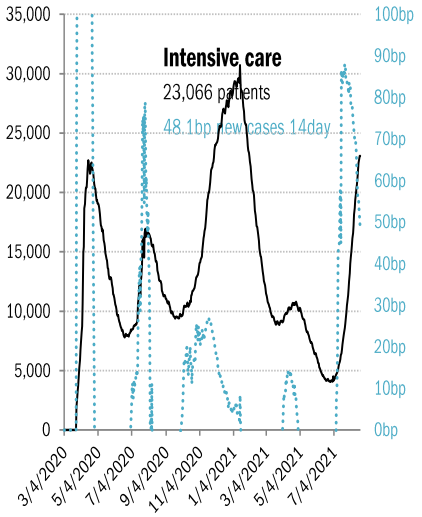


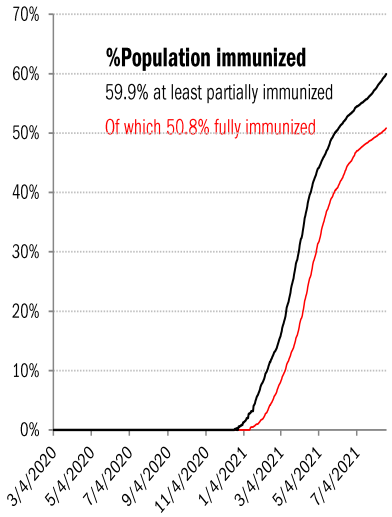












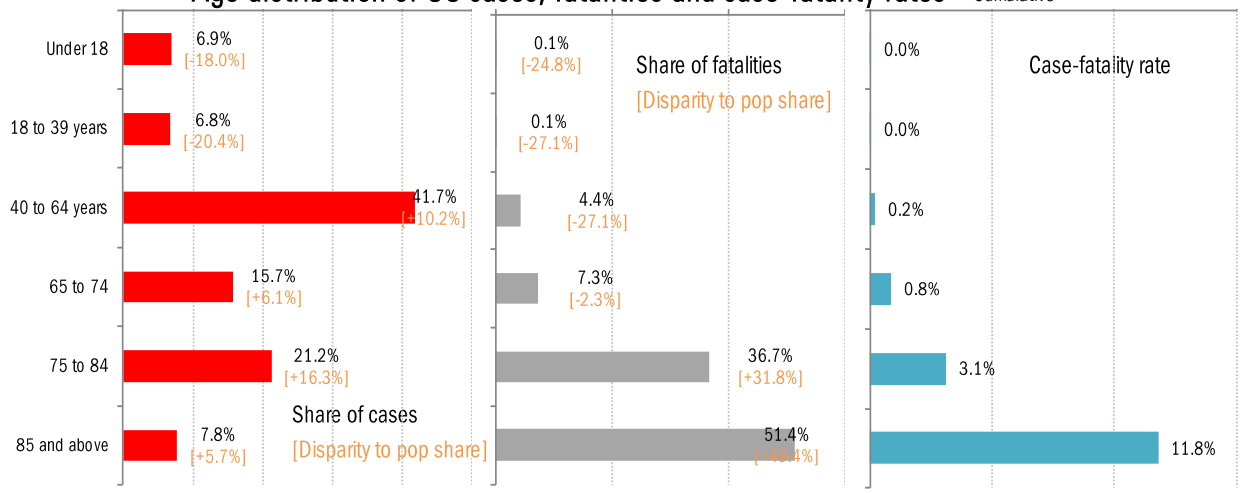
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

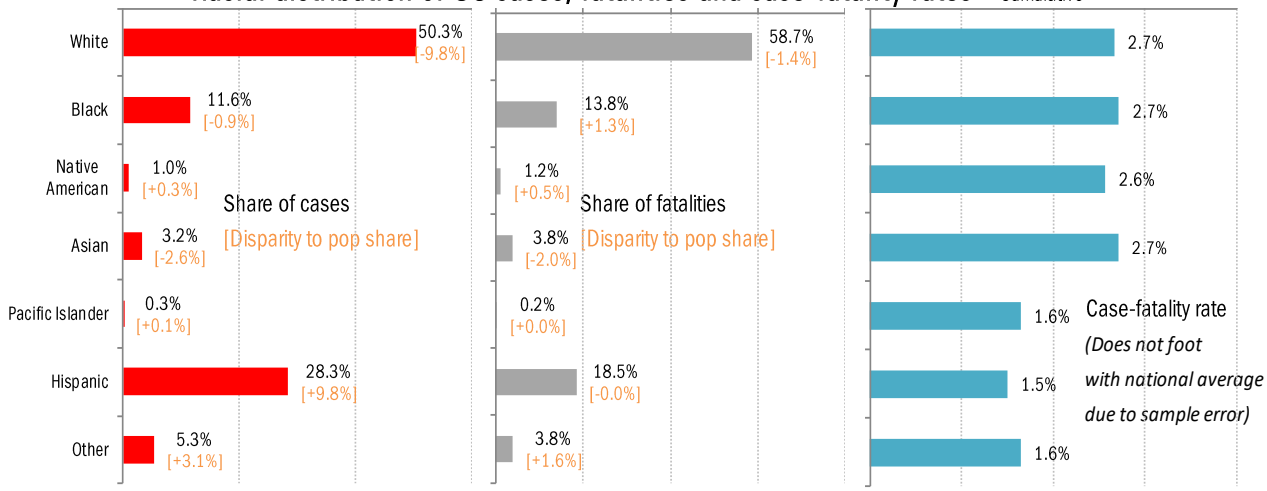
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



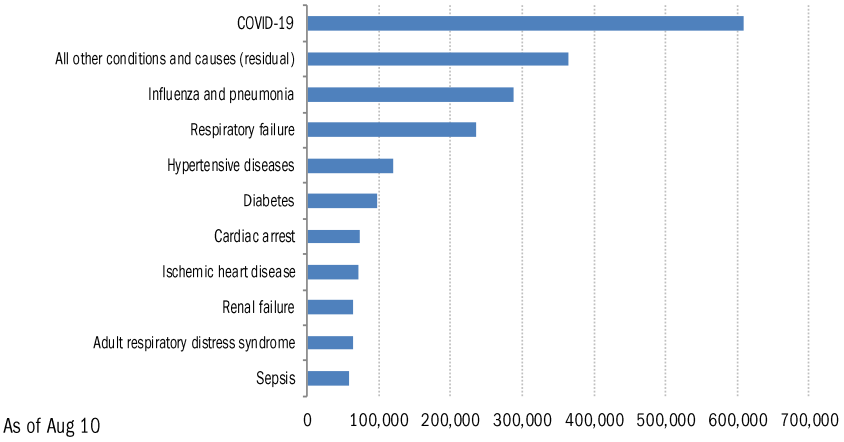
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Aug 10

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

[China insists its zero-Covid strategy is correct. Challenging it can be dangerous]
Nectar Gan and Steve George,
CNN
August 20, 2021

[Biden administration officials say enhanced unemployment benefits will expire September 6]
Sarah Ewall-Wice
CBS News
August 19, 2021

[Delta Could Force States to Expand Jobless Aid, Labor Chief Says]
Katia Dmitrieva, Josh Eidelson, and Benjamin Penn
Bloomberg
August 20, 2021

[Those Anti-Covid Plastic Barriers Probably Don't Help and May Make Things Worse]
Tara Parker-Pope
New York Times
August 19, 2021

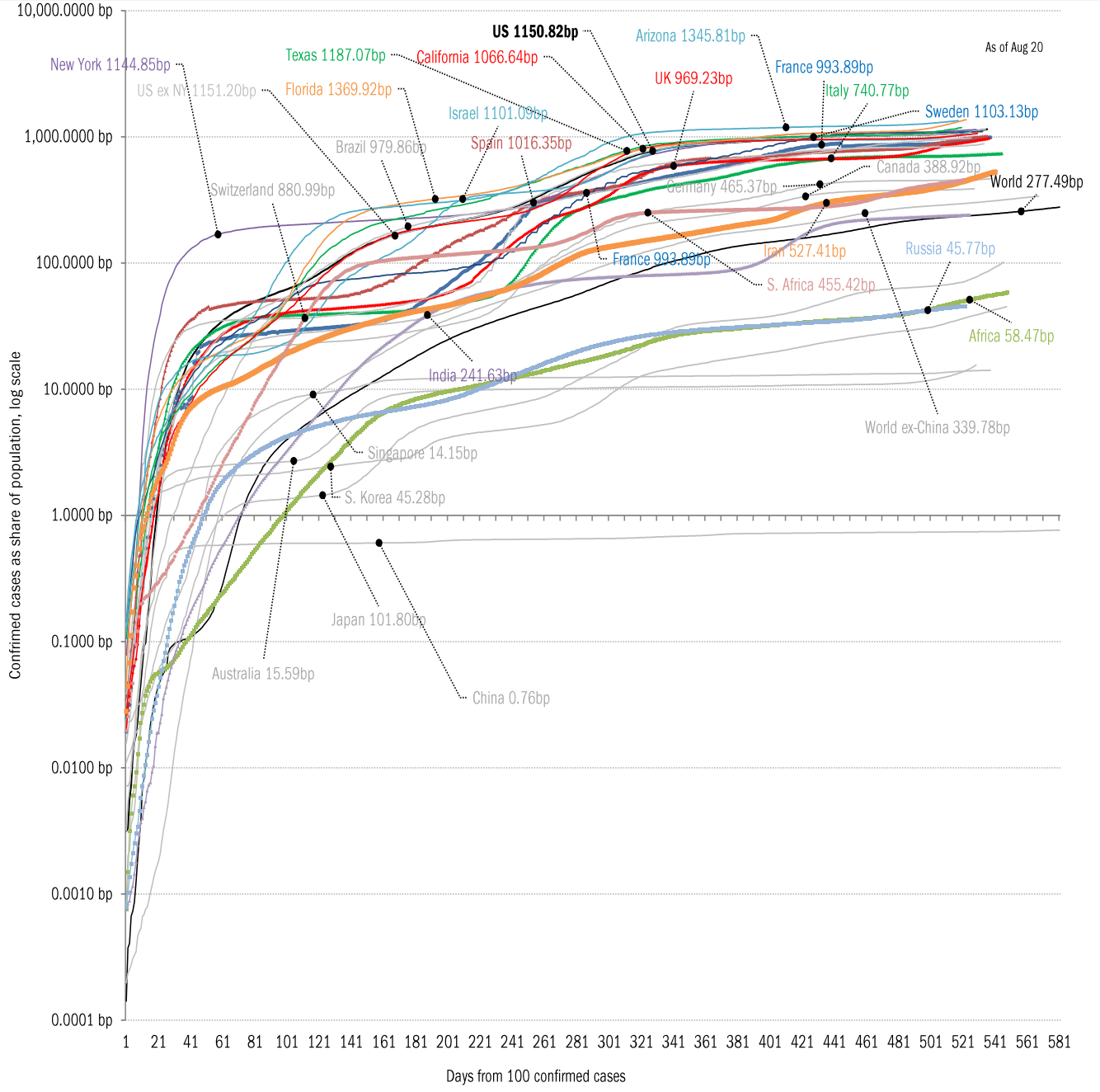
Meme of the day

'Pfizer+' Monthly Booster Subscription Program Announced

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

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

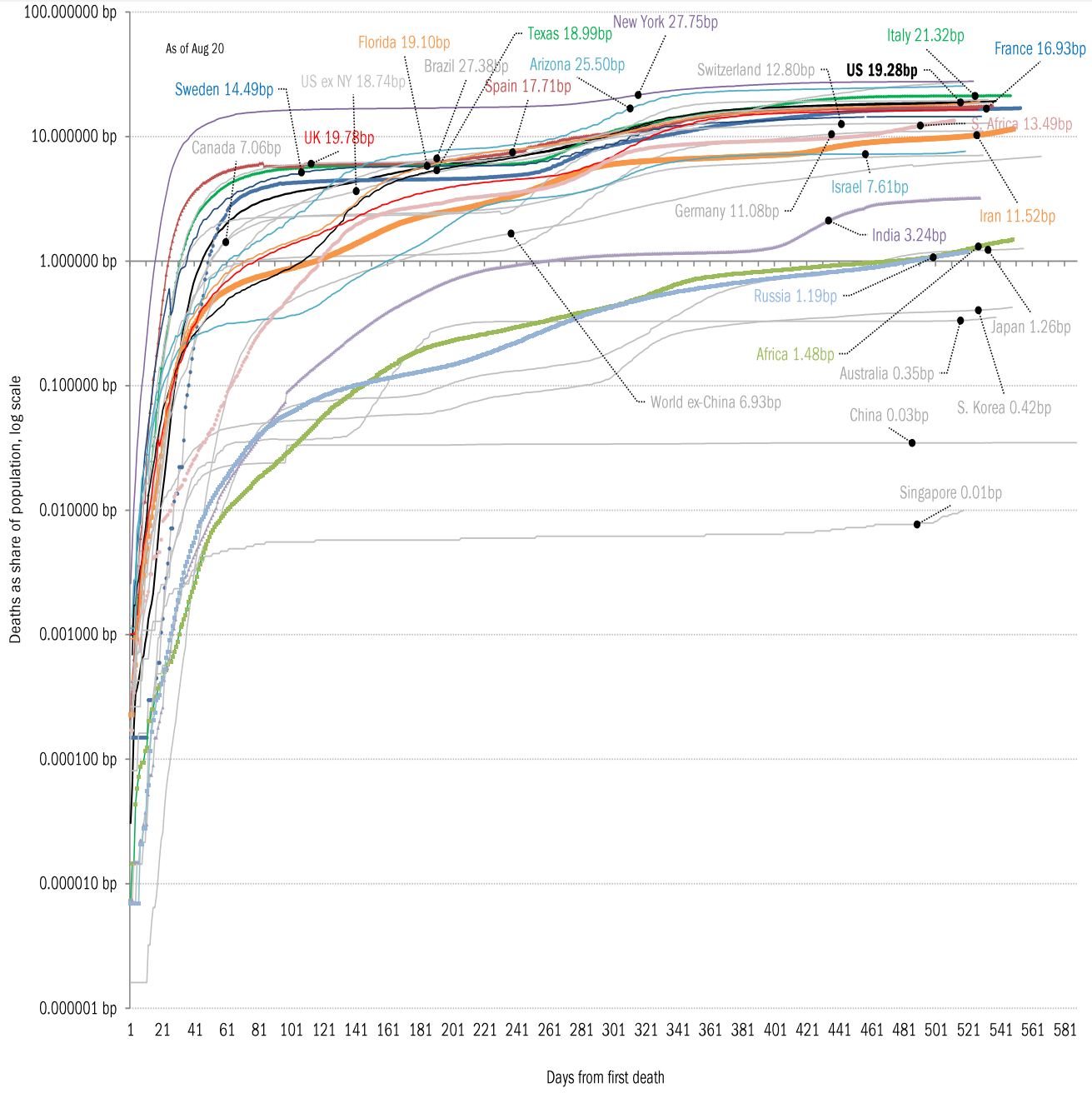
Share of infected population from first day with 100 confirmed cases, log scale



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

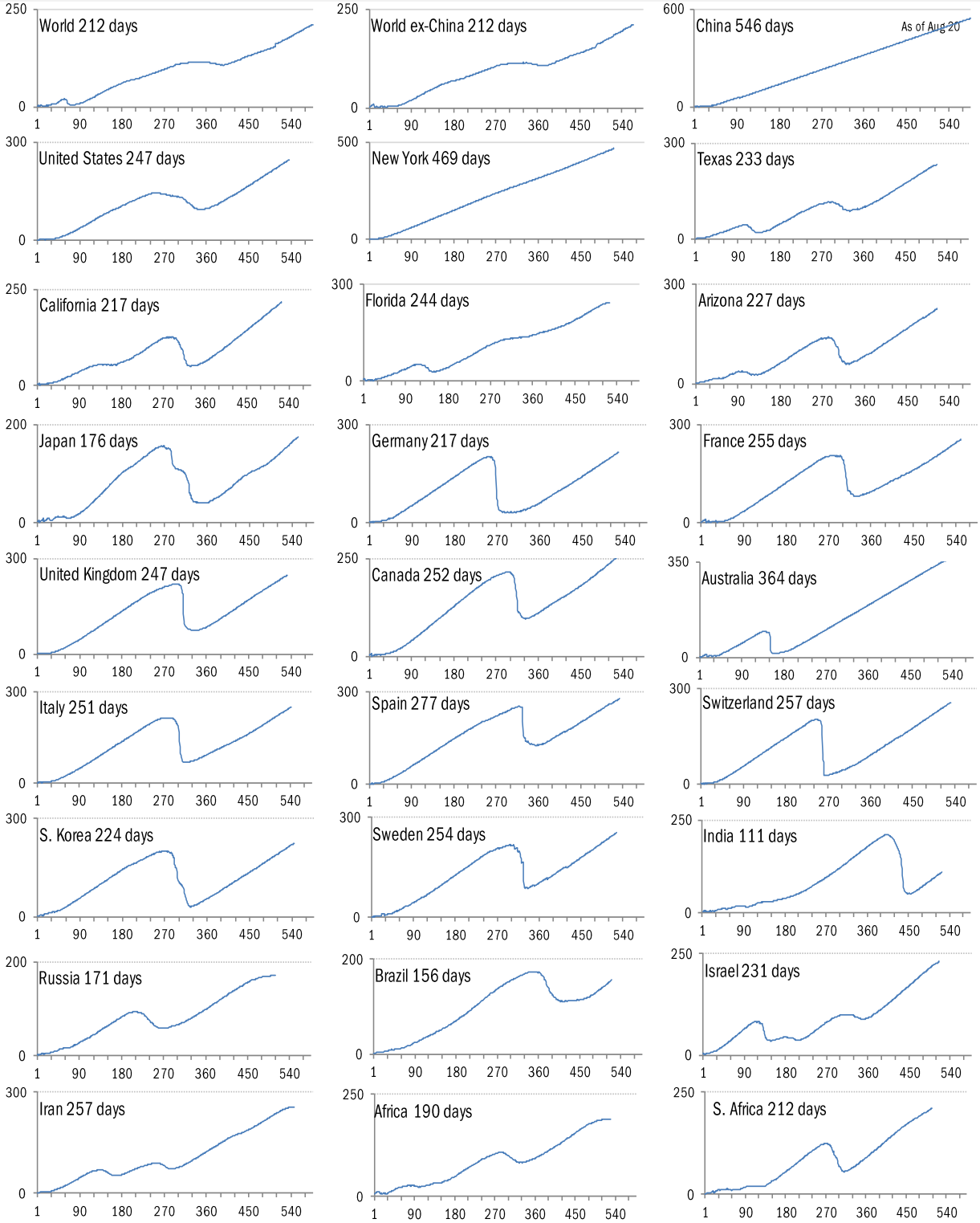


Source: Johns Hopkins, TrendMacro calculations

"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

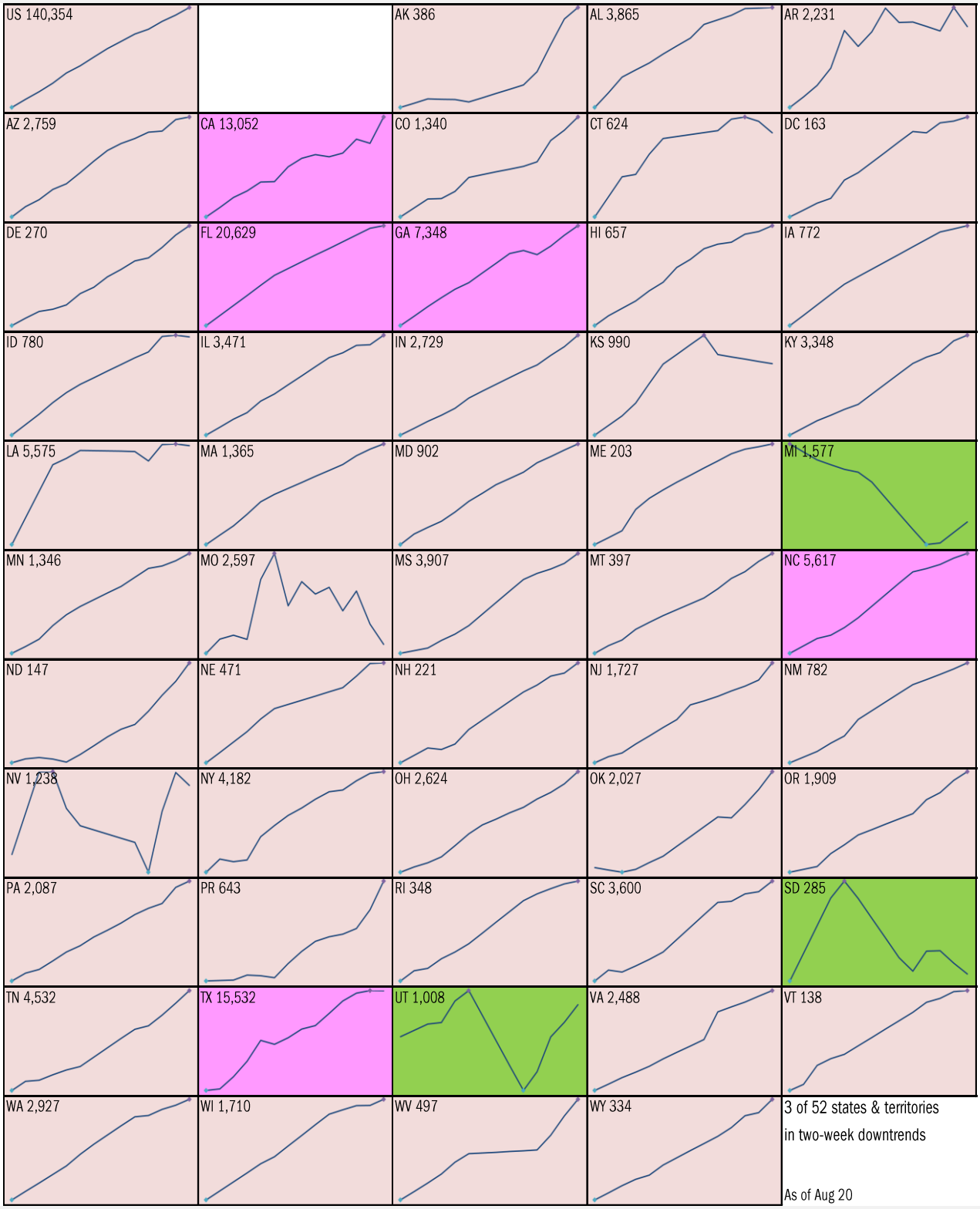


Source: Johns Hopkins, TrendMacro calculations

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

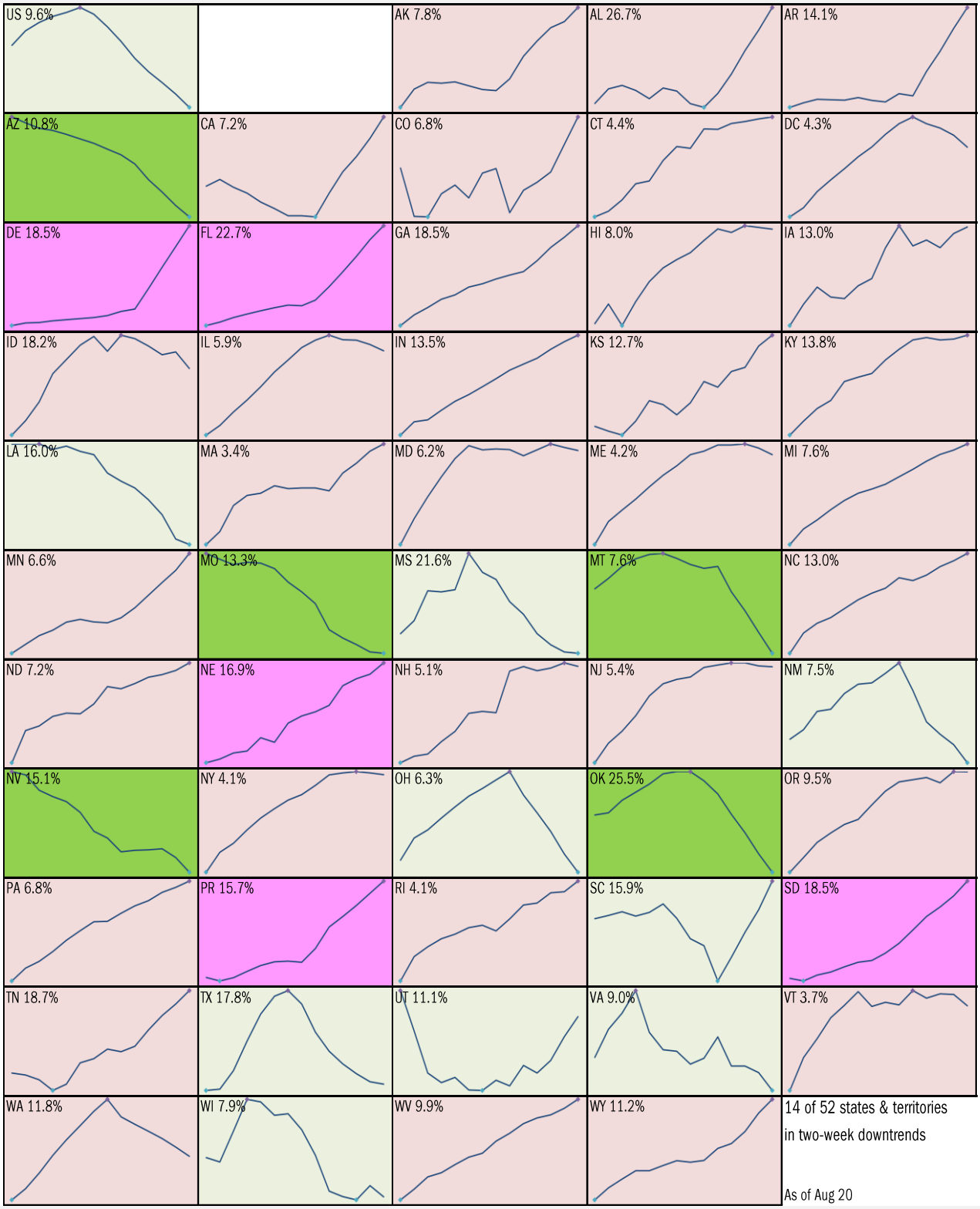


Source: Johns Hopkins, TrendMacro calculations

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

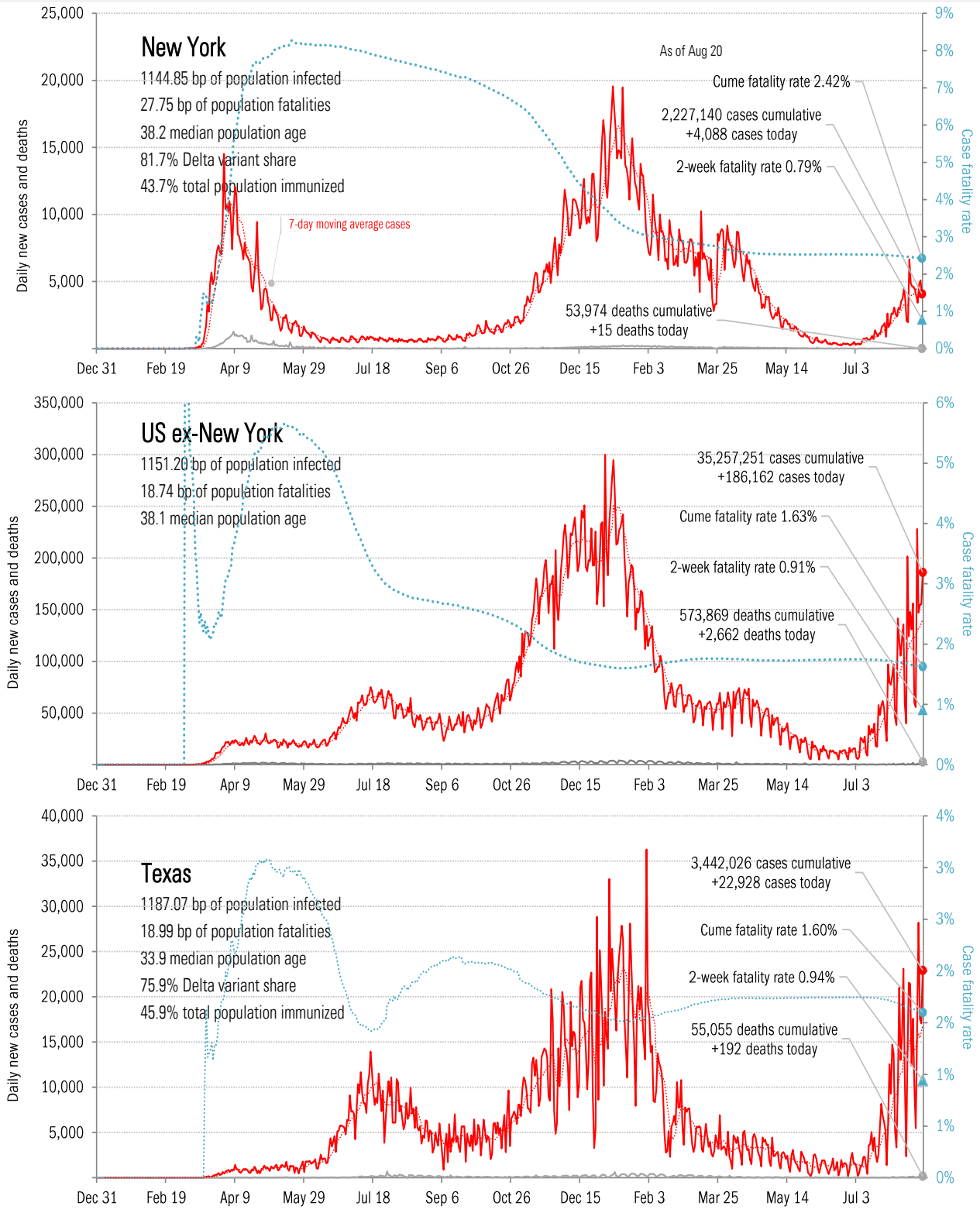
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst



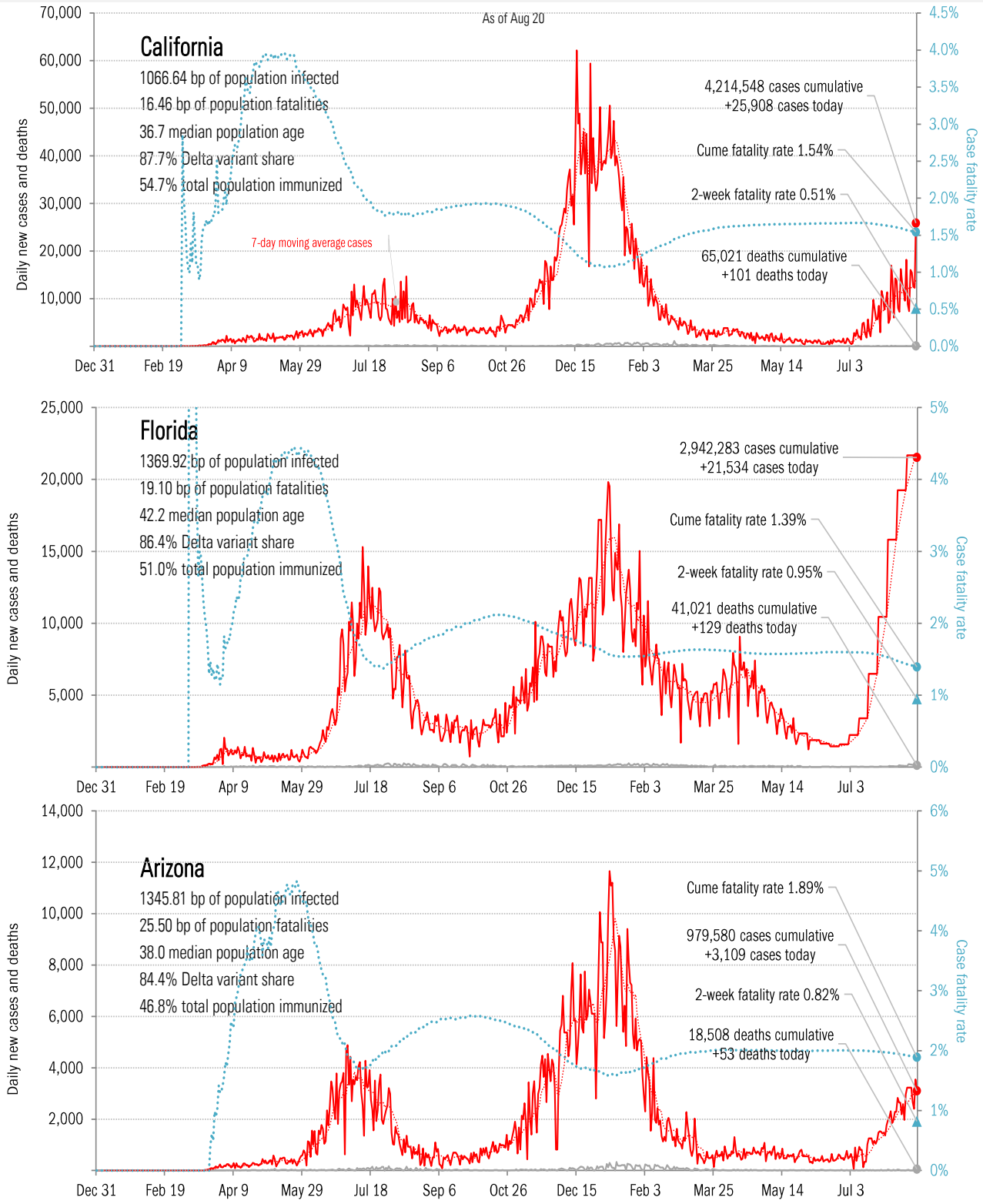
Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande



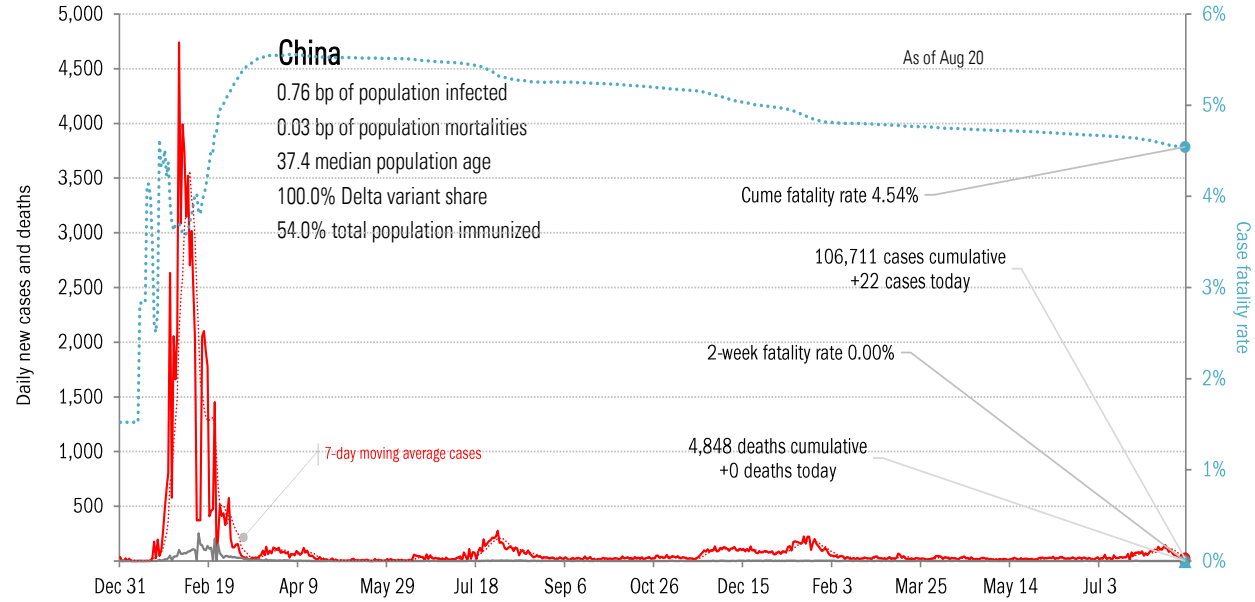
Source: Johns Hopkins, TrendMacro calculations

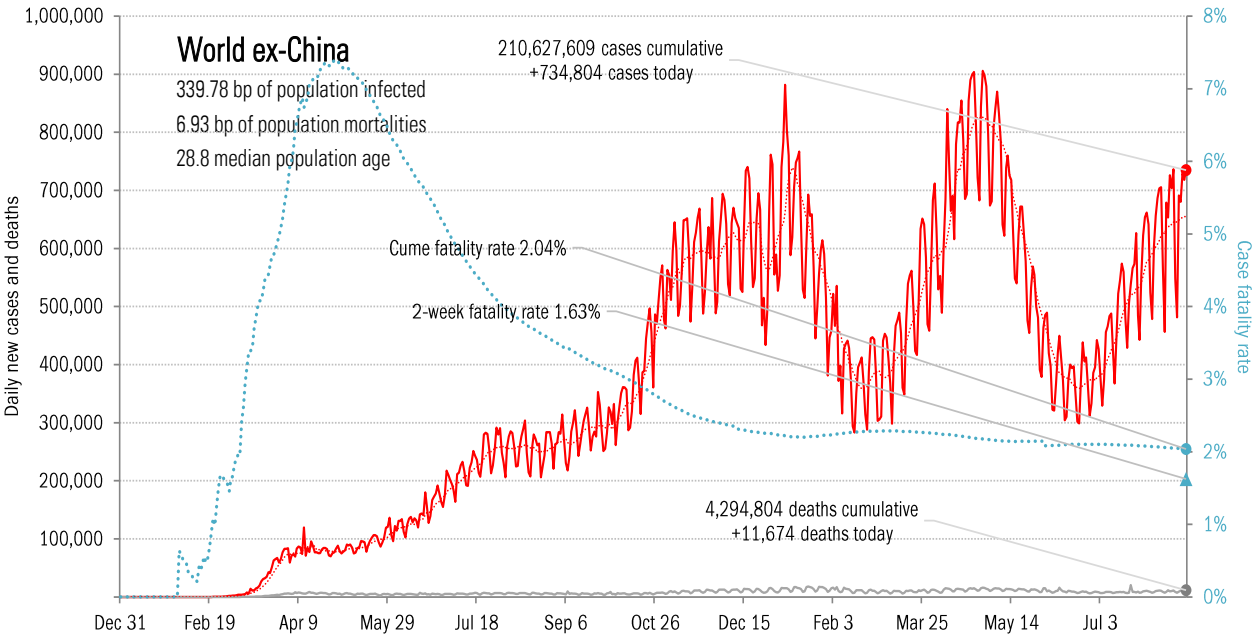
The sun-belt hot-spot states (other than Texas)



Source: Johns Hopkins, TrendMacro calculations

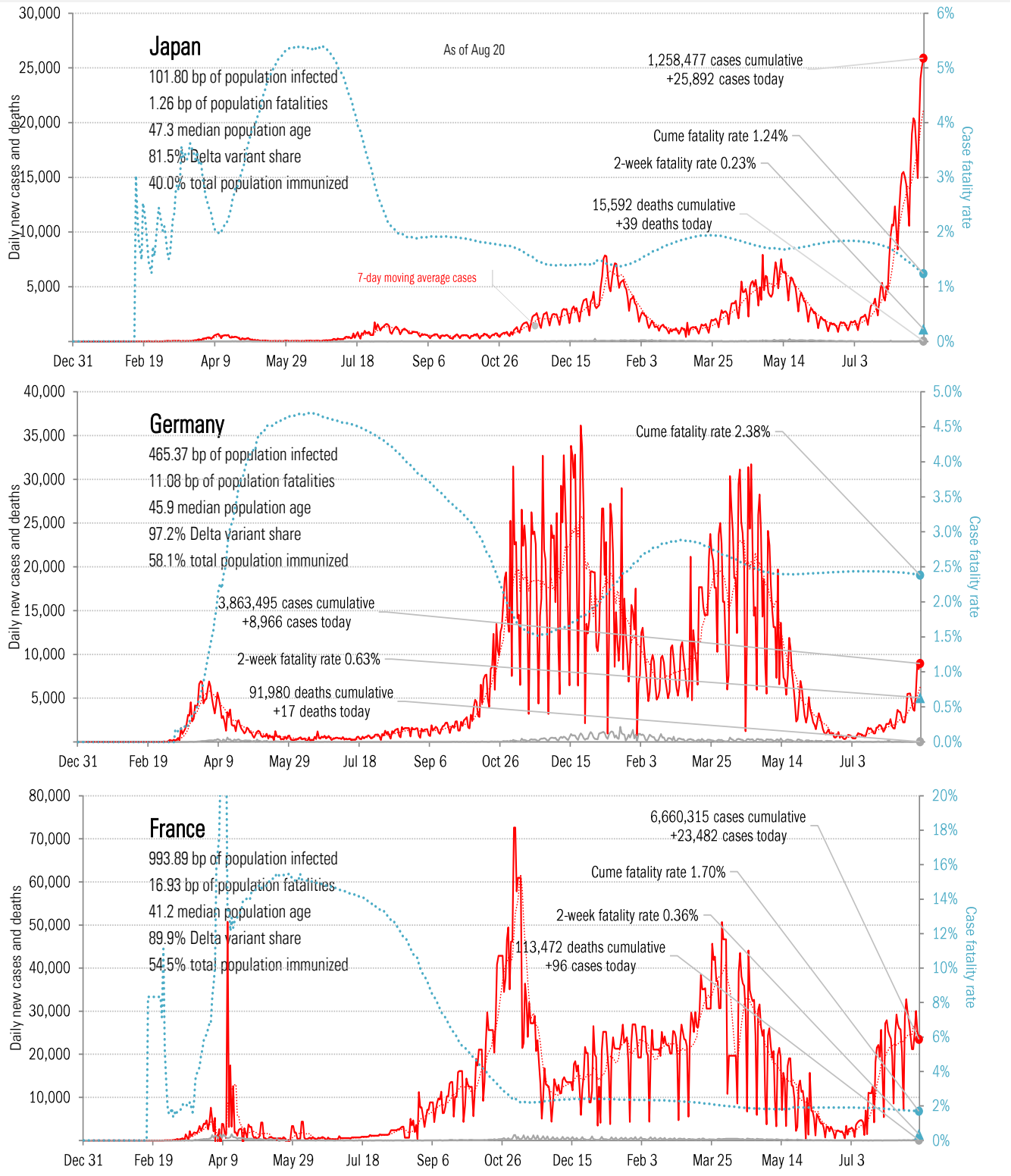
Patient zero… and then everyone else





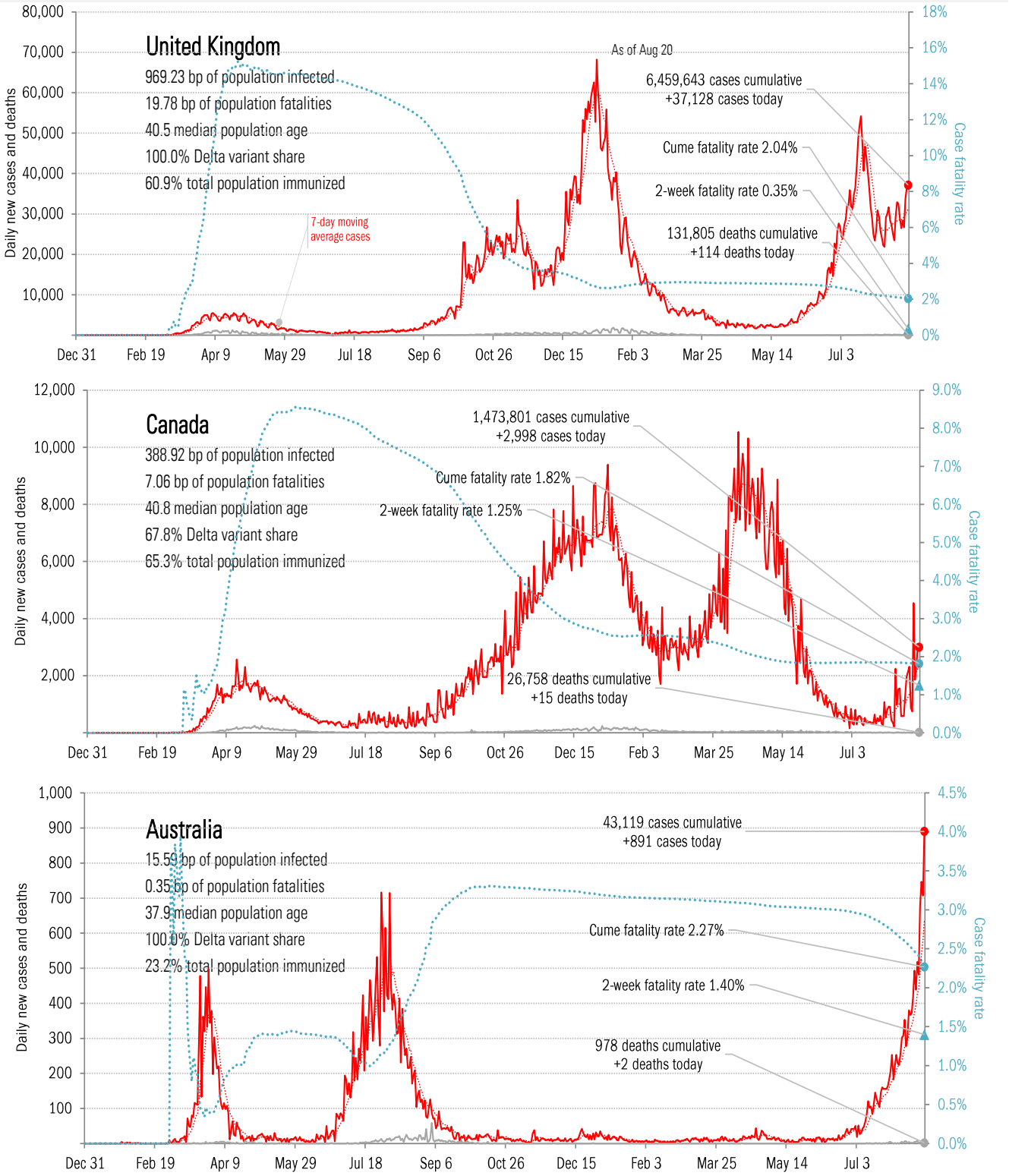
Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies



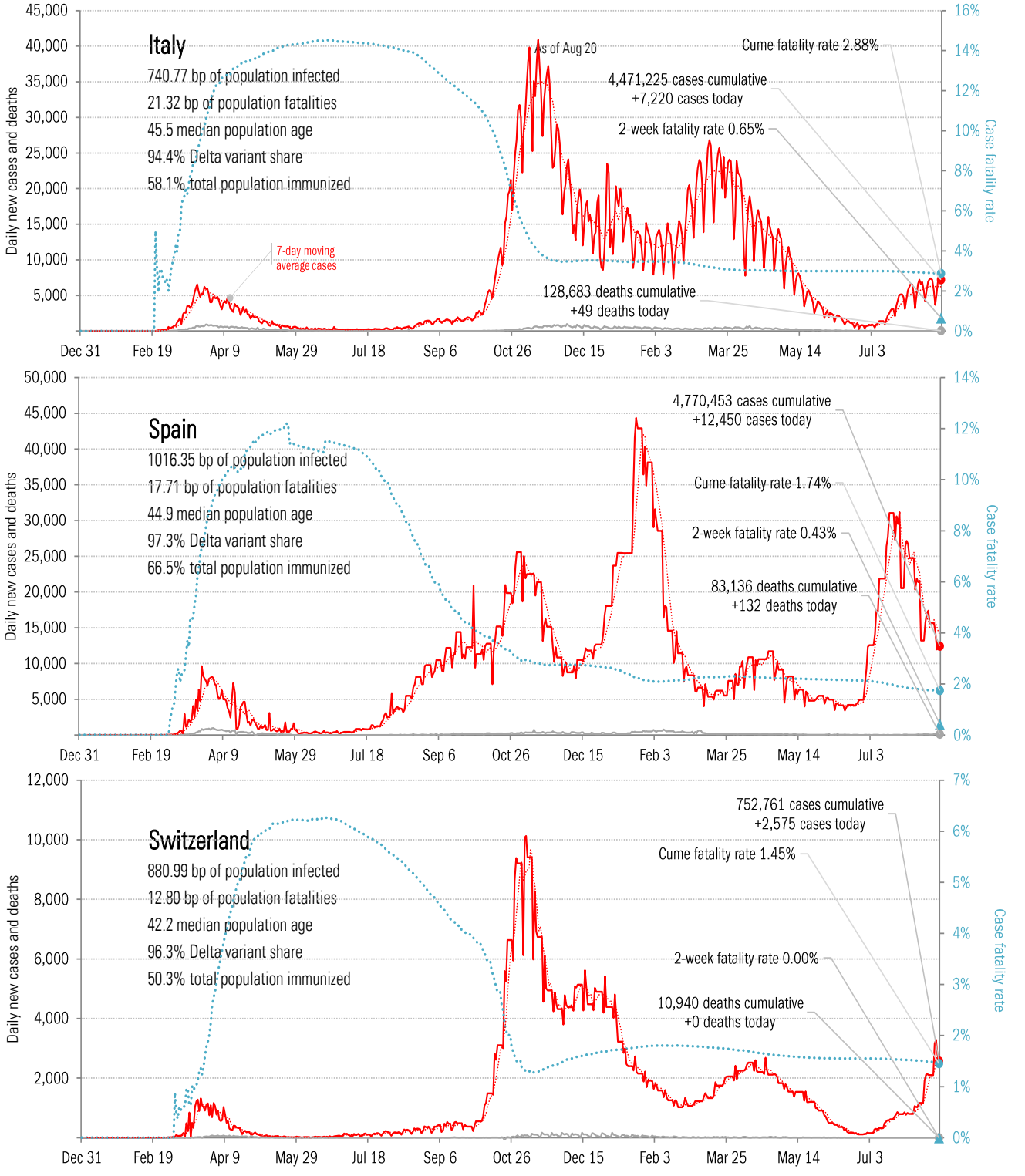
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



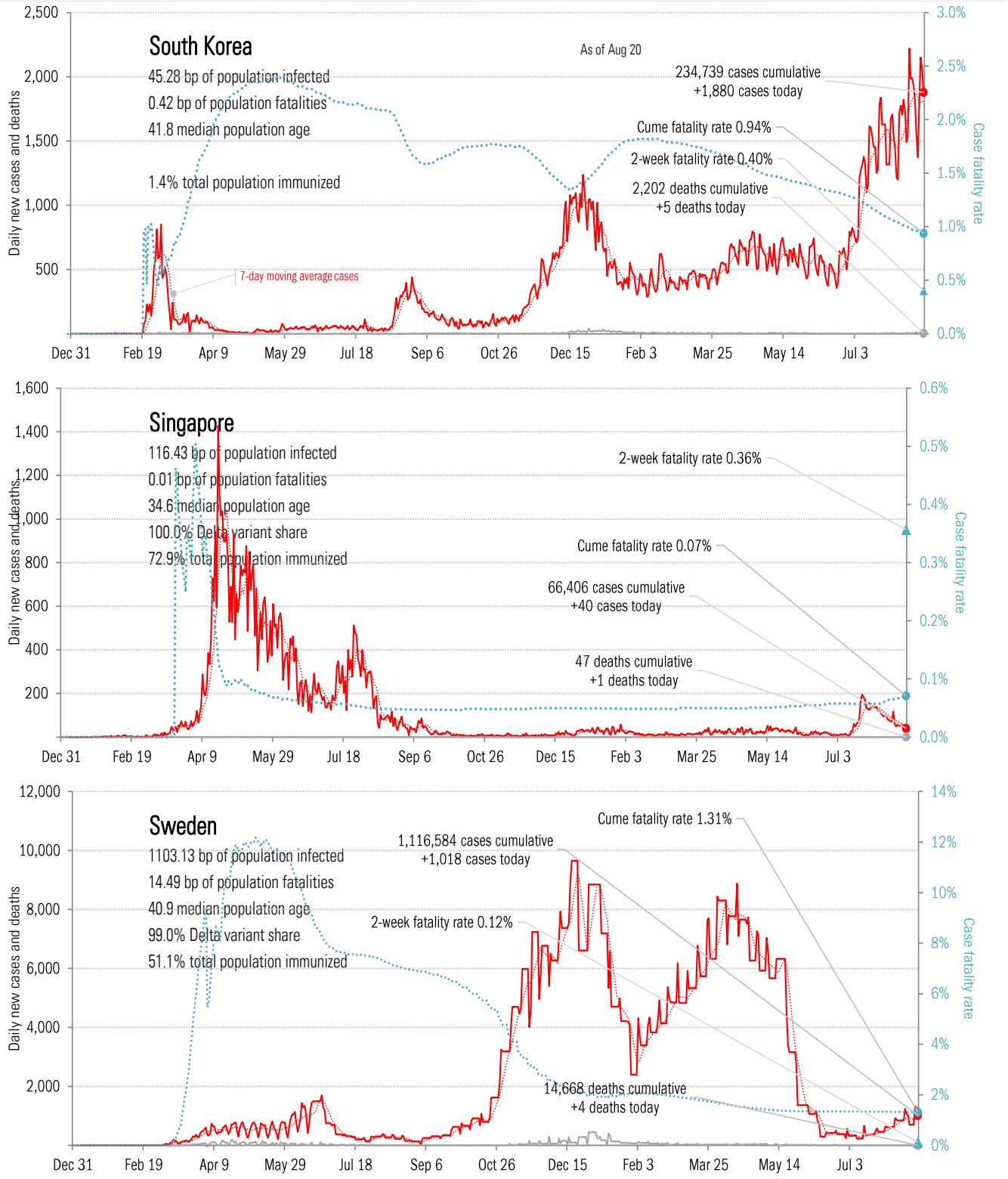
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



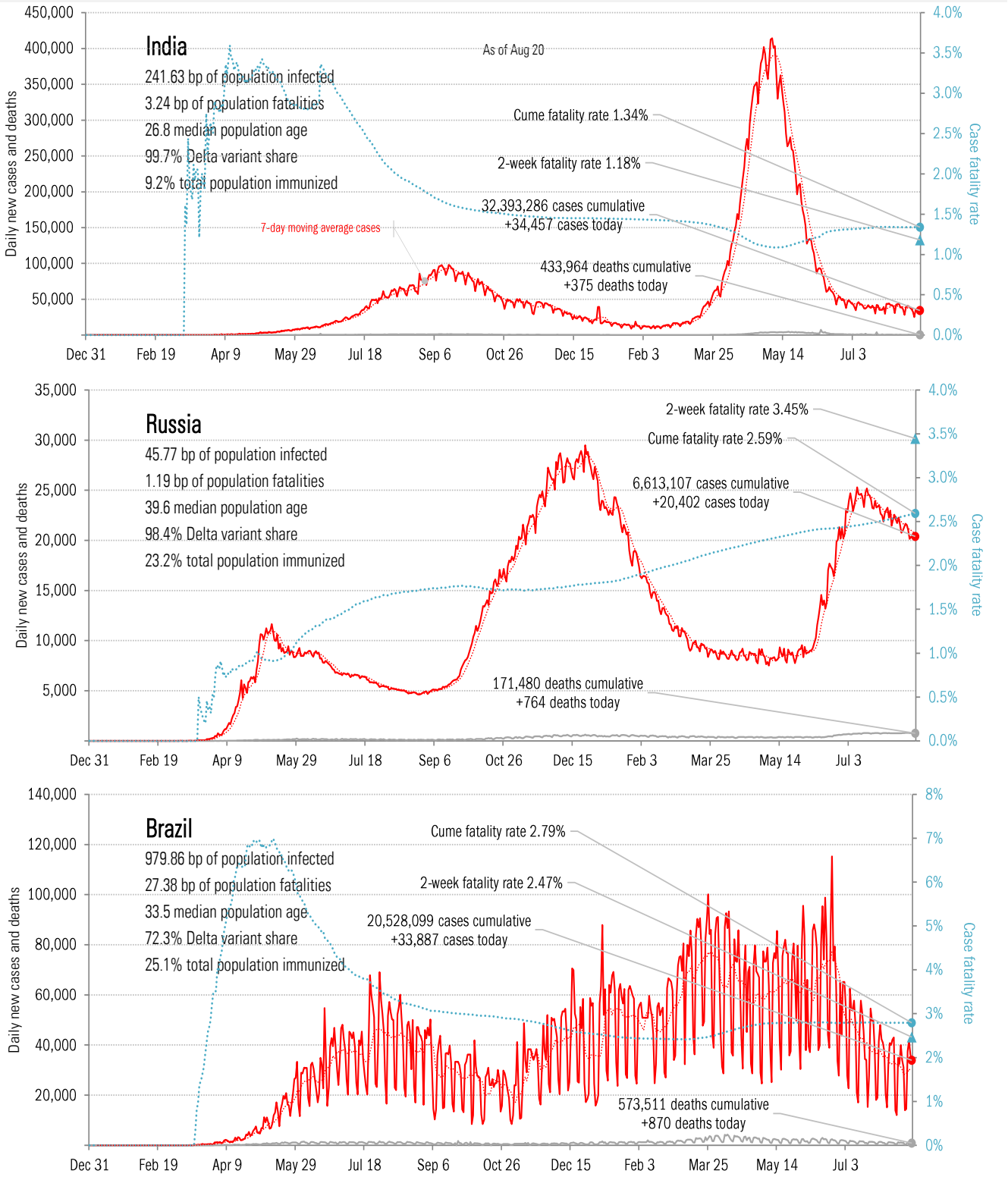
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



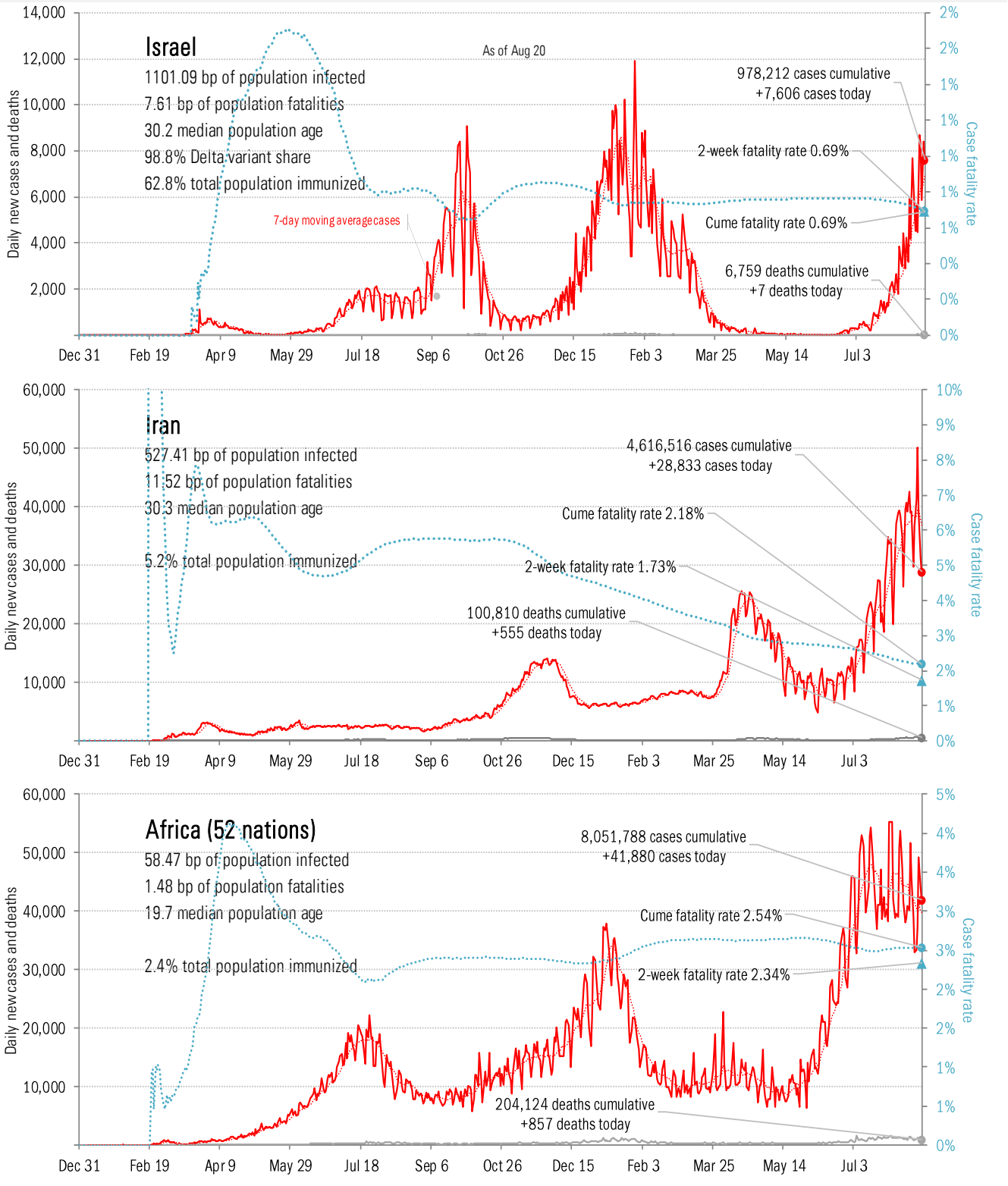
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



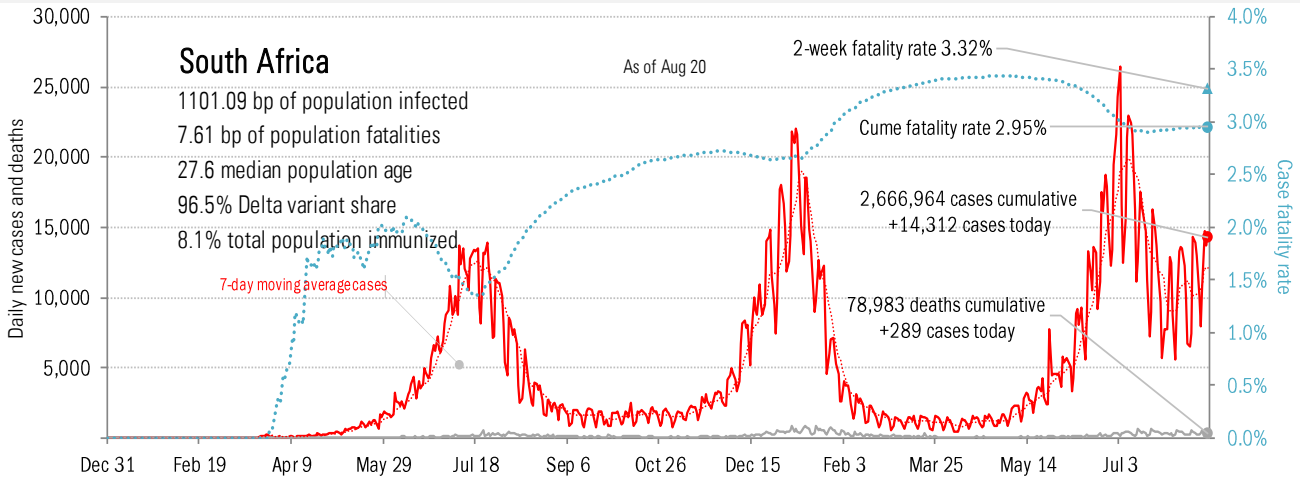
Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued



Source: Johns Hopkins, TrendMacro calculations