Trend Macrolytics, LLC
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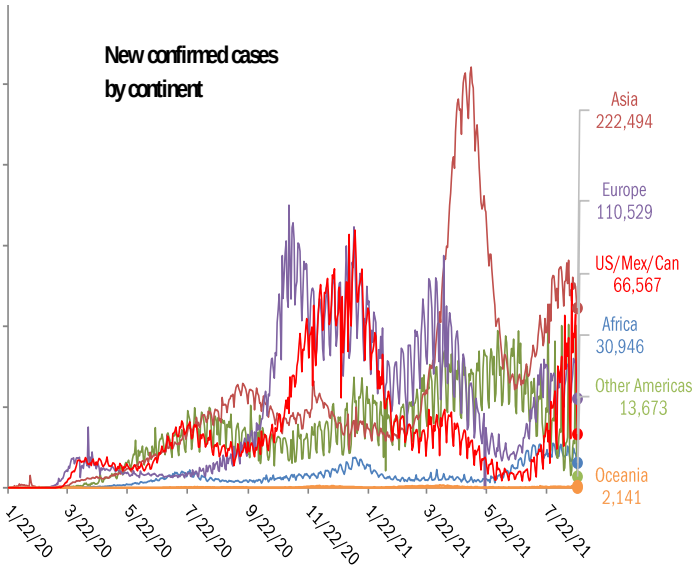
Data Insights: Covid-2019 Monitor

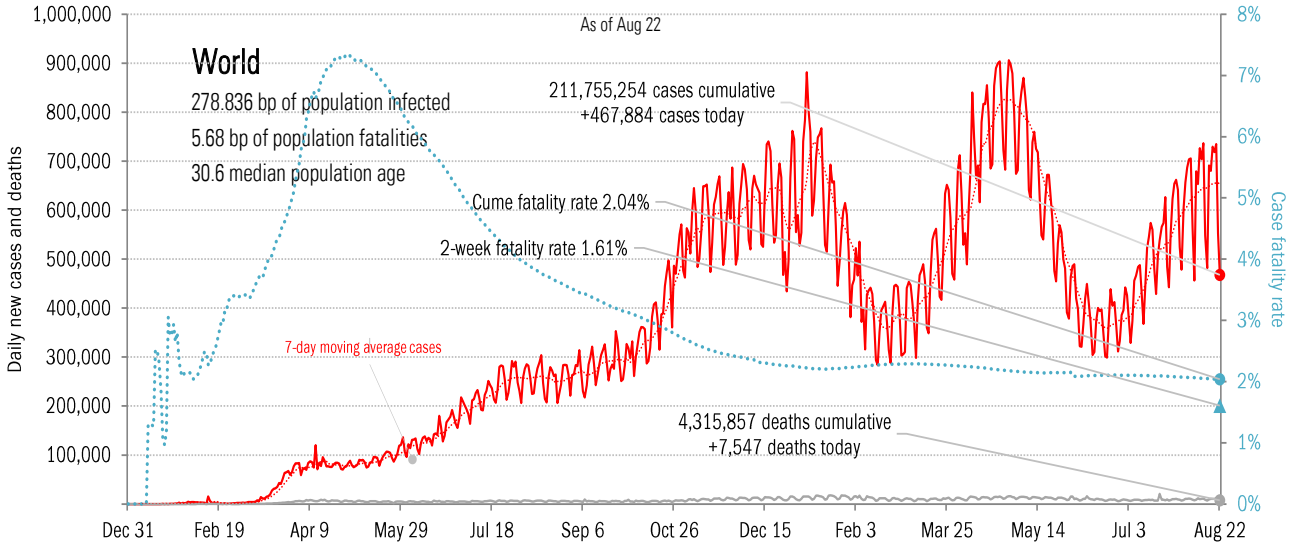
Monday, August 23, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+58,226	Indonesia	+1,030
Iran	+36,419	Russia	+746
United Kingdom	+32,034	Vietnam	+737
India	+25,072	Iran	+684
Japan	+22,364	India	+389
Russia	+19,977	Brazil	+318
Malaysia	+19,807	Thailand	+233
Thailand	+19,014	Malaysia	+232
Turkey	+18,622	Mexico	+228
France	+17,300	Philippines	+214
	+268,835		+4,811
World	+467,884	World	+7,547
Top ten	57%	Top ten	64%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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The US scorecard

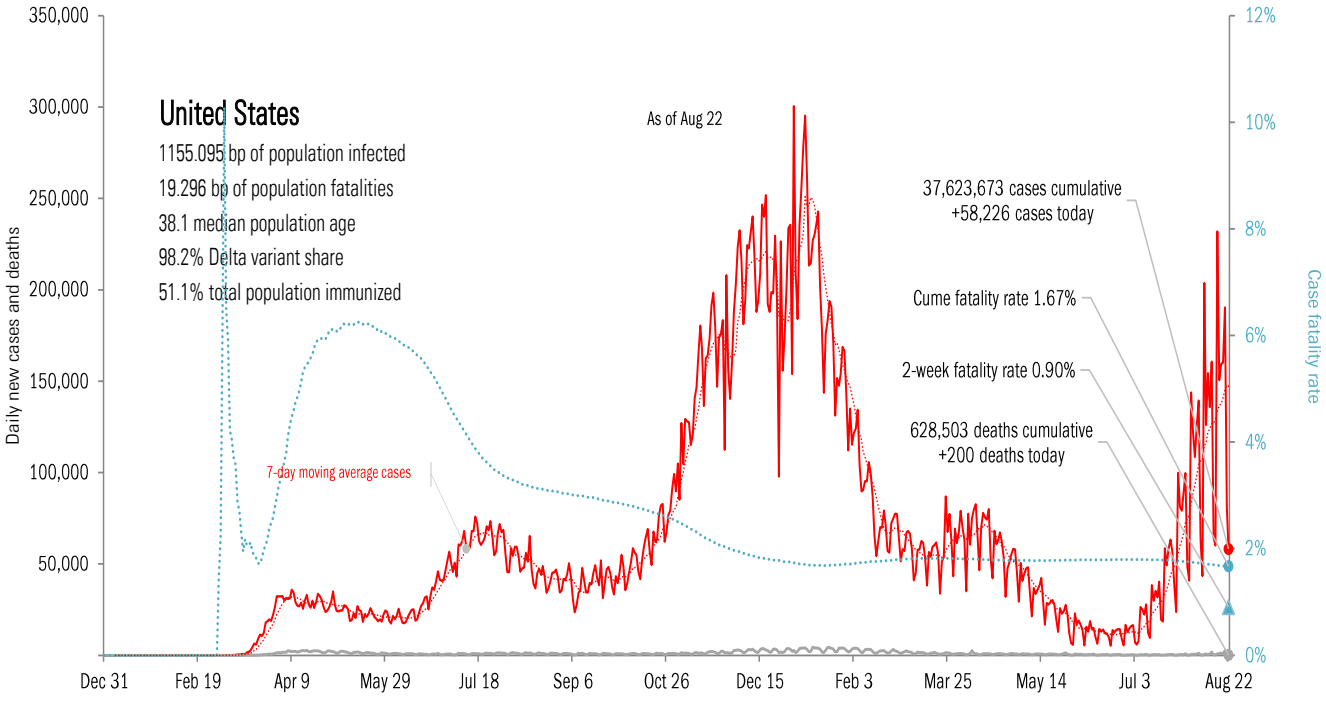
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	+21,534	FL	+284	GA	+377	CA	4,234,699	CA	65,139	TX	305,909	RI	87%	MS	61%
CA	+7,270	TX	+57	TX	+326	TX	3,462,334	TX	55,283	CA	270,327	GA	87%	AL	55%
AZ	+6,502	CA	+42	FL	+232	FL	2,985,352	NY	54,029	FL	260,916	FL	85%	FL	53%
NY	+4,556	AZ	+39	CA	+132	NY	2,237,639	FL	41,617	NY	144,188	MD	84%	GA	52%
AL	+3,315	AR	+29	KY	+124	IL	1,482,369	PA	28,075	GA	128,848	MA	84%	AR	50%
TX	+3,274	NY	+17	OH	+70	GA	1,307,084	NJ	26,752	PA	96,244	MO	83%	LA	50%
OH	+2,194	MD	+5	NC	+67	PA	1,271,753	IL	26,150	OH	94,578	NV	82%	TX	46%
PA	+1,834	PR	+4	PA	+66	OH	1,180,986	GA	22,199	IL	90,152	SC	81%	OK	46%
MO	+1,733	MO	+3	AL	+52	NC	1,144,894	MI	21,393	KY	89,202	PA	81%	ID	43%
NJ	+1,450	NJ	+2	OR	+52	NJ	1,074,306	OH	20,689	MI	76,625	CT	80%	MO	40%
	+53,662		+482		+1,498		20,381,416		361,326		1,556,989				
All states	+58,226		+484		+1928	All states	37,623,673		628,503		2,755,514	All states	70%		67%
Top ten	92%		100%		78%	Top ten	54%		58%		57%	Median	74%		22%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-13,760	TX	-114	SC	-63	AR	+40 bp
CA	-5,611	AL	-58	MD	-44	FL	+40 bp
AL	-2,895	CA	-34	WI	-37	LA	+30 bp
NY	-1,387	NY	-21	IN	-35	KS	+20 bp
AR	-1,291	MO	-20	CO	-30	MO	+20 bp



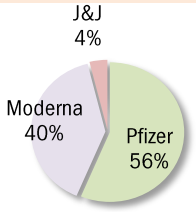
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	372,842,110				+0.989 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	206,328,913	62%	175,216,003	52%	+0.421 million
Age 12 to 17	11,911,327	50%	8,869,162	37%	+0.079 million
Age 18 to 64	141,756,993	70%	119,561,350	59%	+0.295 million
Age 65 and over	51,659,630	94%	45,965,794	84%	+0.046 million

Immunity	Full	Partial
US	51.1%	60.2%
UK	61.4%	70.2%
France	54.5%	69.6%
Spain	66.5%	75.8%
Germany	58.3%	63.5%
Italy	58.3%	68.6%
Australia	24.1%	42.6%
Israel	62.9%	68.2%
Canada	65.6%	73.2%
Japan	40.9%	52.6%
Africa	2.5%	4.6%
India	9.4%	32.7%
Brazil	25.7%	59.5%
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

117 days

by Dec 16, 2021

64.1% of population >18 immunized

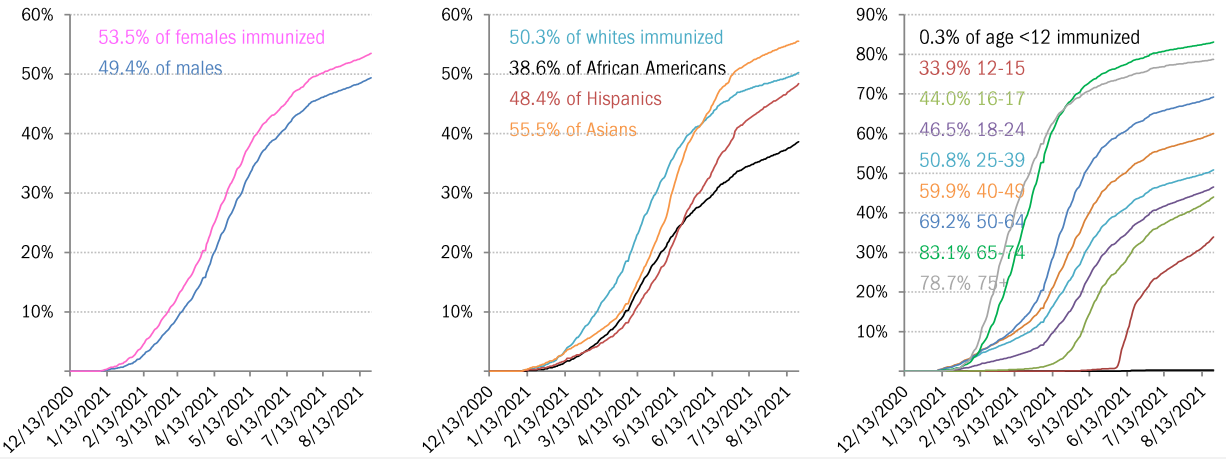
12.8% previously tested positive

76.9% vs 60% adult herd immunity

As of Aug 22

AK					WI					ME
53.3%					57.8%					70.4%
46.6%					53.1%					65.1%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
66.6%	43.3%	51.4%	47.5%	61.2%	65.0%	54.7%		66.2%	75.6%	66.4%
59.4%	38.5%	45.4%	41.2%	55.1%	50.4%	50.0%		59.1%	67.4%	59.3%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
63.0%	56.9%	44.1%	55.2%	55.5%	49.3%	51.8%	68.3%	68.9%	74.6%	
57.4%	46.6%	37.9%	48.4%	50.9%	45.6%	47.8%	54.3%	60.4%	65.3%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
67.8%	55.3%	62.6%	56.6%	51.8%	55.8%	46.8%	64.4%	67.2%	72.6%	70.4%
54.9%	46.7%	56.1%	51.1%	44.0%	47.6%	39.5%	56.3%	60.6%	65.1%	63.7%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	55.7%	68.5%	56.3%	52.0%	48.2%	54.3%	50.3%	66.6%	63.1%	
	47.0%	58.9%	47.2%	39.9%	40.8%	45.4%	42.3%	56.6%	54.3%	
			OK	LA	MS	AL	GA			
			51.8%	48.2%	45.1%	47.8%	49.9%			
			42.4%	39.9%	36.8%	36.3%	40.4%			
HI			TX					FL		PR
73.4%			55.8%					62.6%		72.2%
54.7%			46.1%					51.6%		61.9%

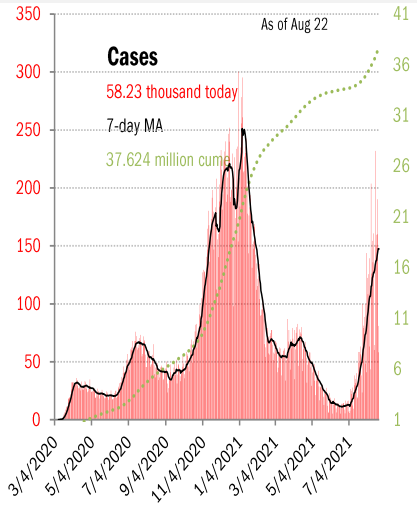
The demographics of US vaccination

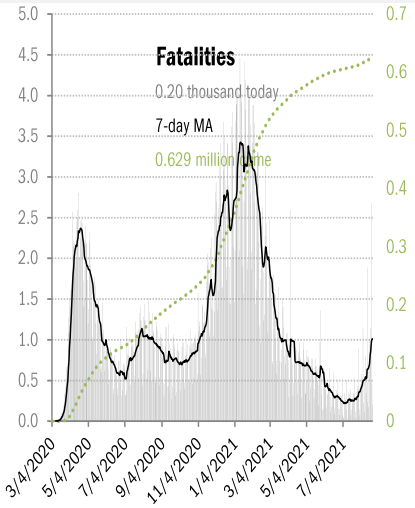


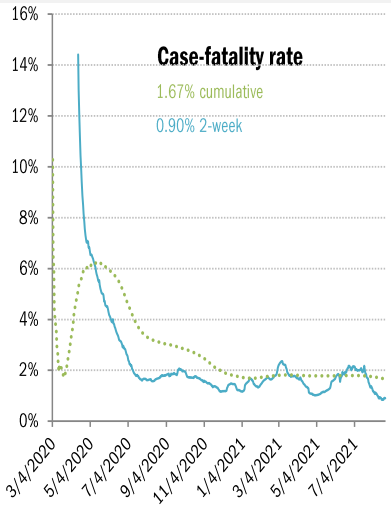
Source: CDC, CDC, Our World in Data, TrendMacro calculations

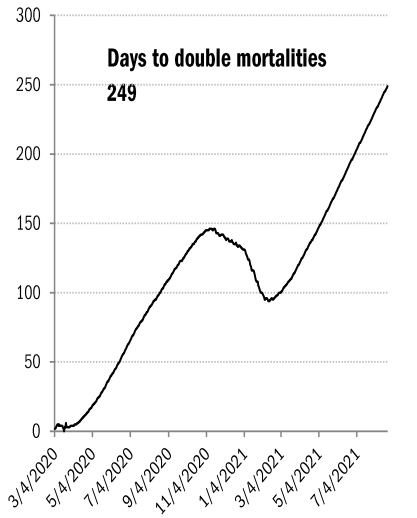
US deep-dive

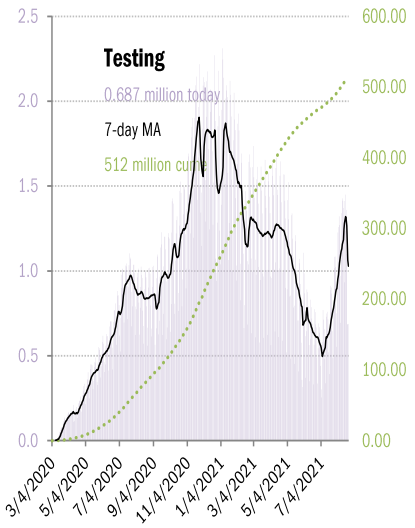
National and state-by-state data do not line up because of different sources

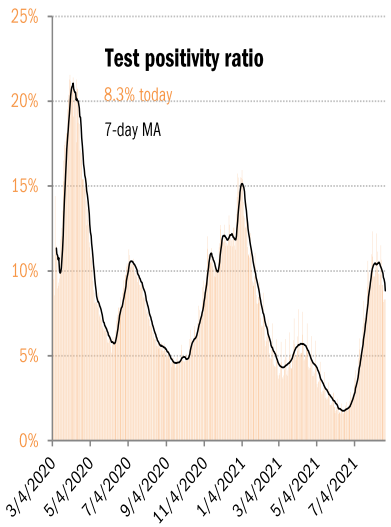


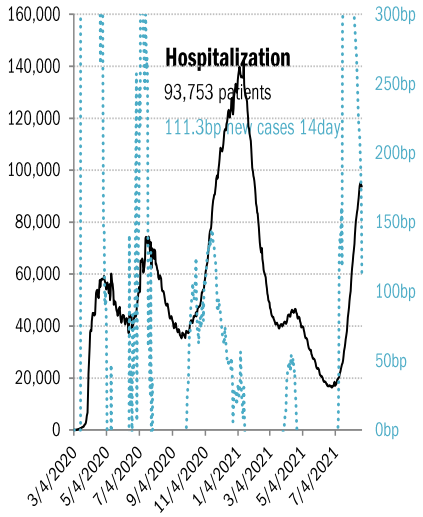


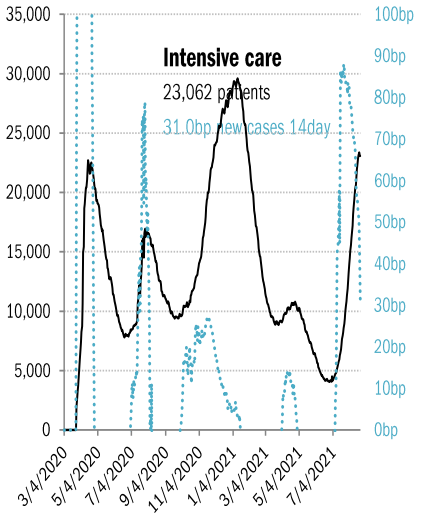


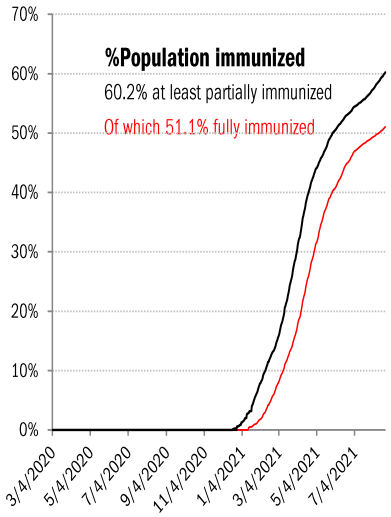










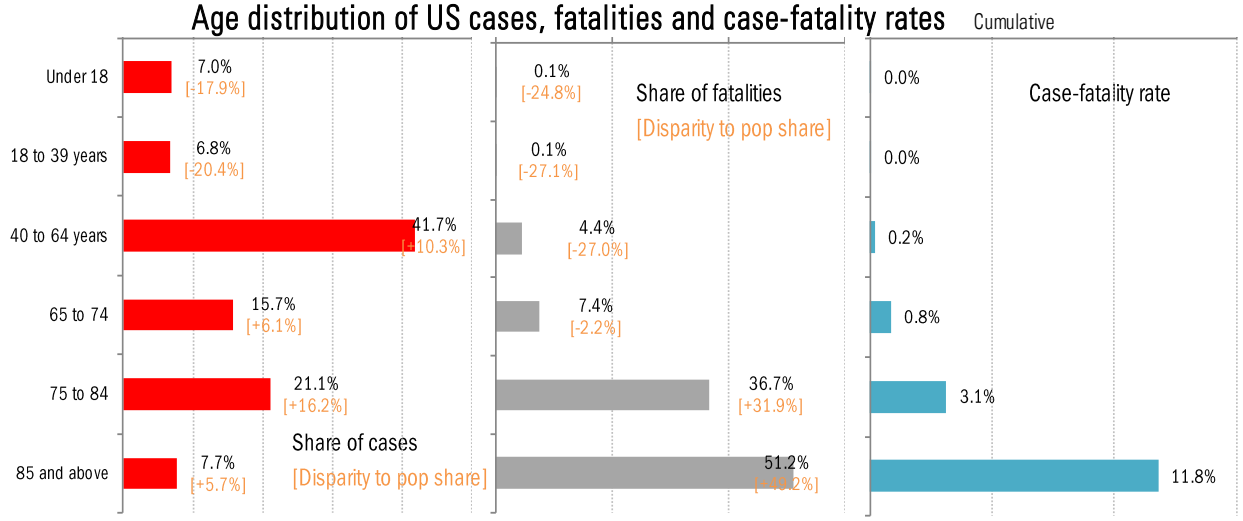


Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

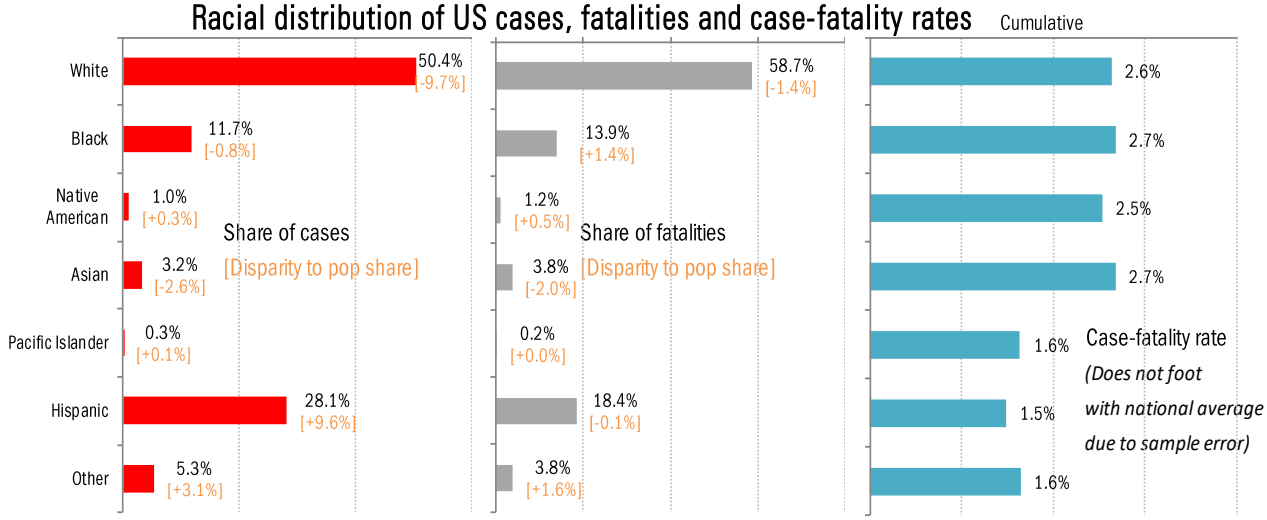
US deep-dive on the demographics of age, race and health

Updates weekly on Sundays

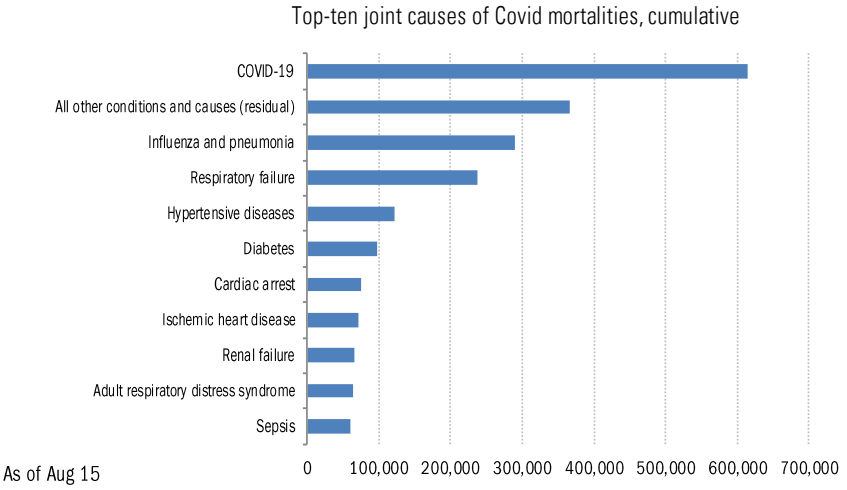
Age distribution of US cases, fatalities and case-fatality rates



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



Comorbidities



As of Aug 15

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

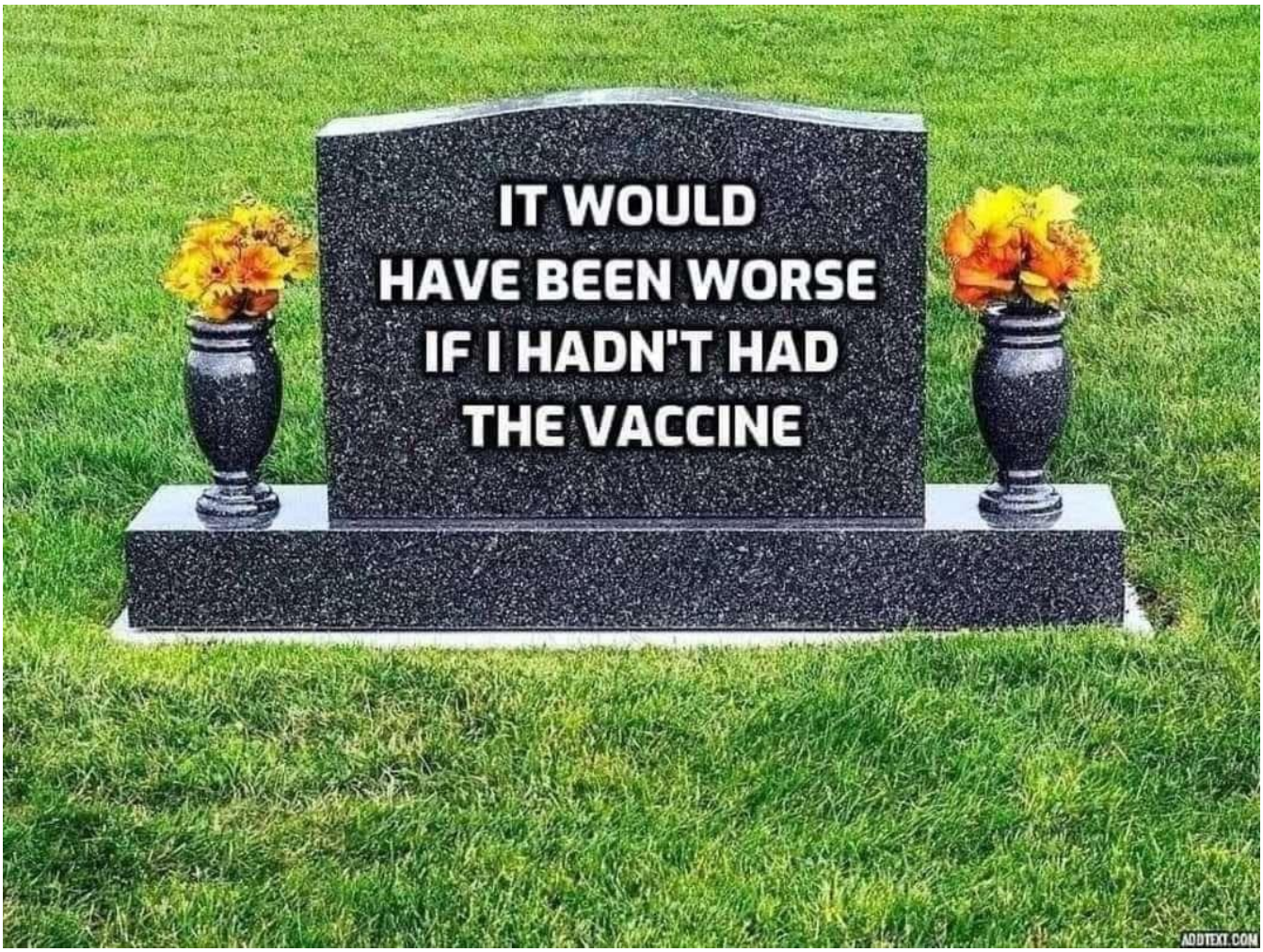
A Better Way to Encourage Vaccination
Richard Menger
Wall Street Journal
August 22, 2021

Lipid nanoparticles for mRNA delivery
Xucheng Hou
Nature Reviews: Materials
August 10, 2021

Rescue dogs shot dead by NSW council due to COVID-19 restrictions
Angus Thompson
Sydney Morning Herald
August 22, 2021

Early Withdrawal of Pandemic Unemployment Insurance: Effects on Earnings, Employment and Consumption
Kyle Coombs et al.
August 20, 2021

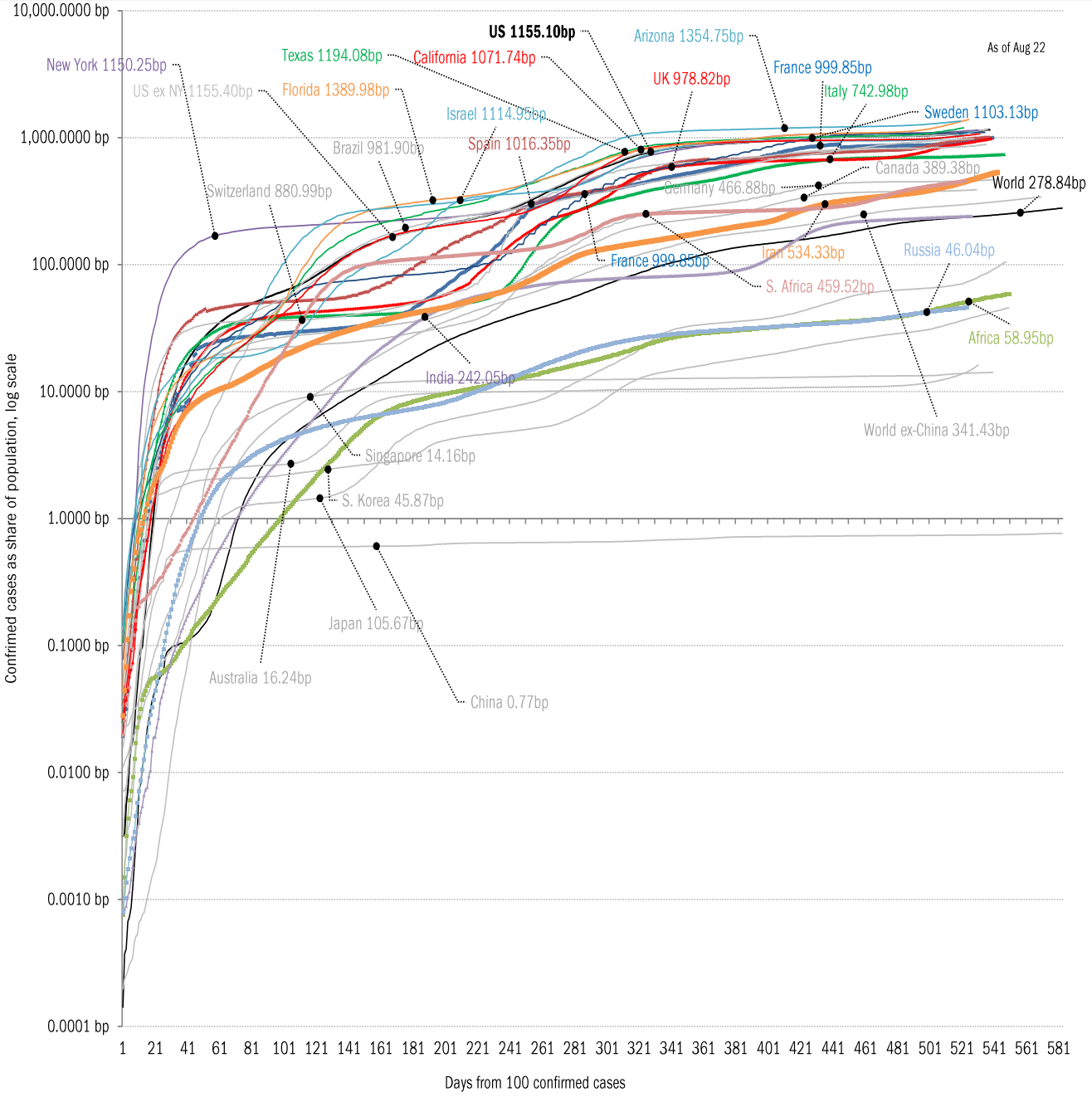
Meme of the day



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

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

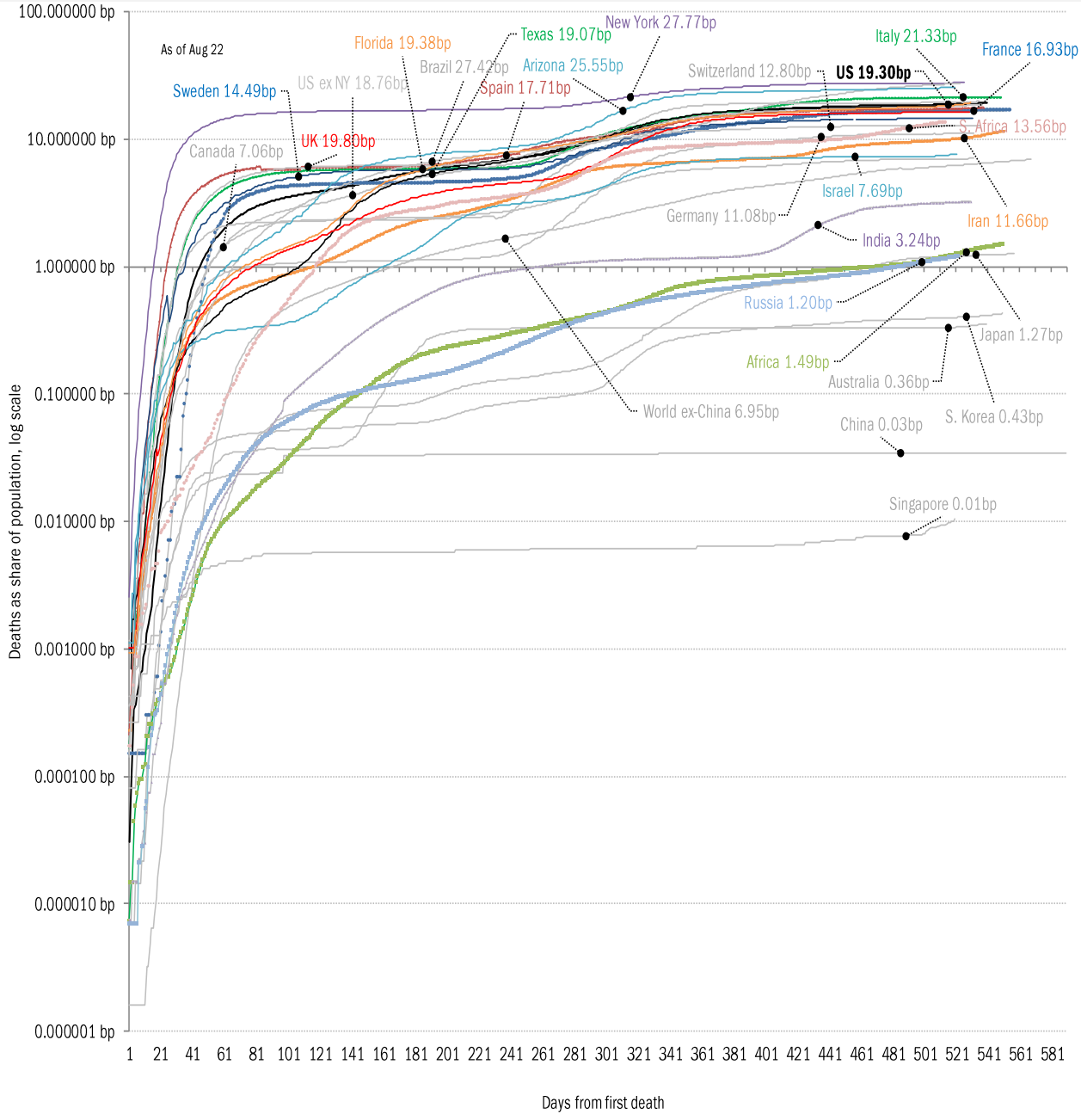
Share of infected population from first day with 100 confirmed cases, log scale



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

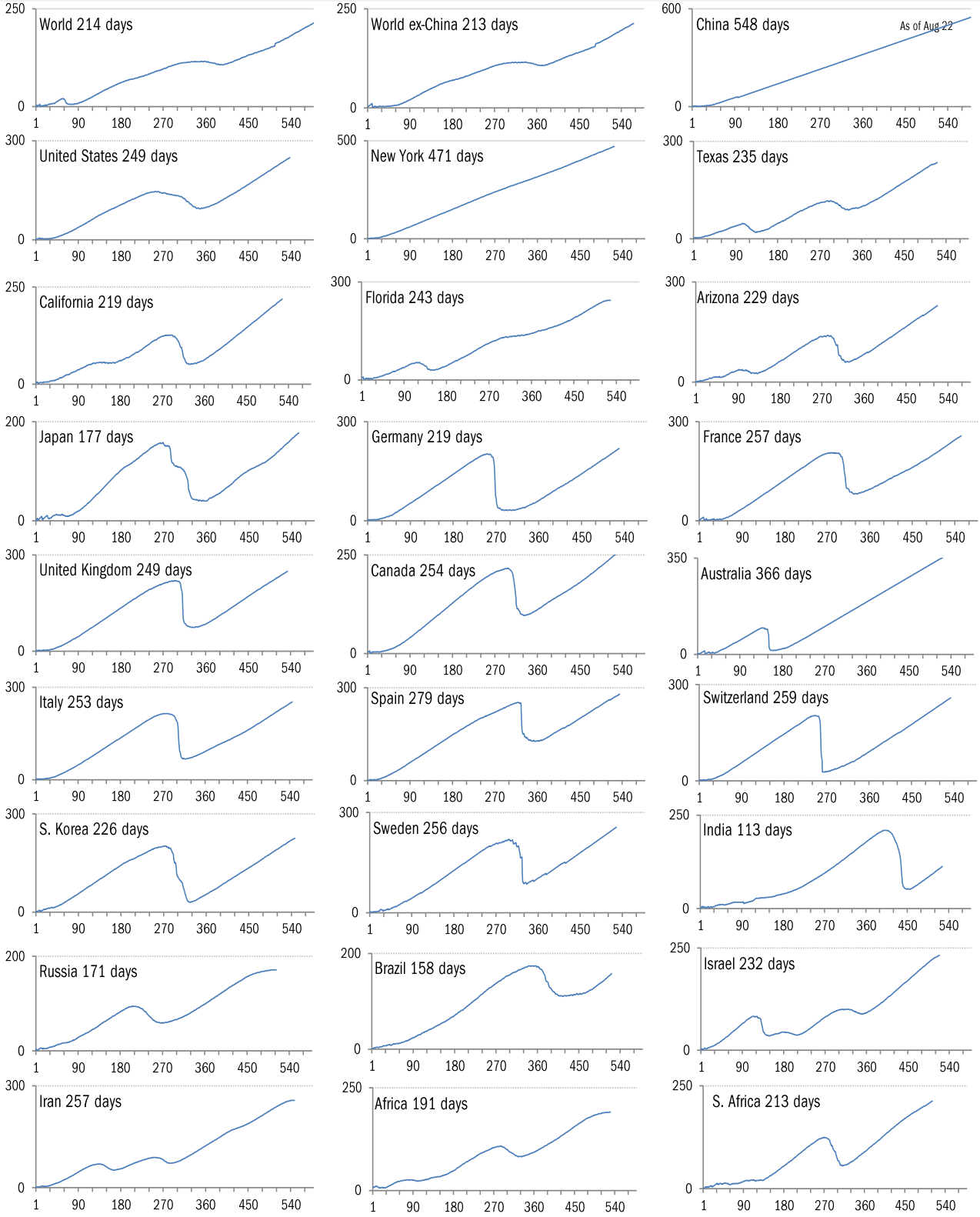


Source: Johns Hopkins, TrendMacro calculations

"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

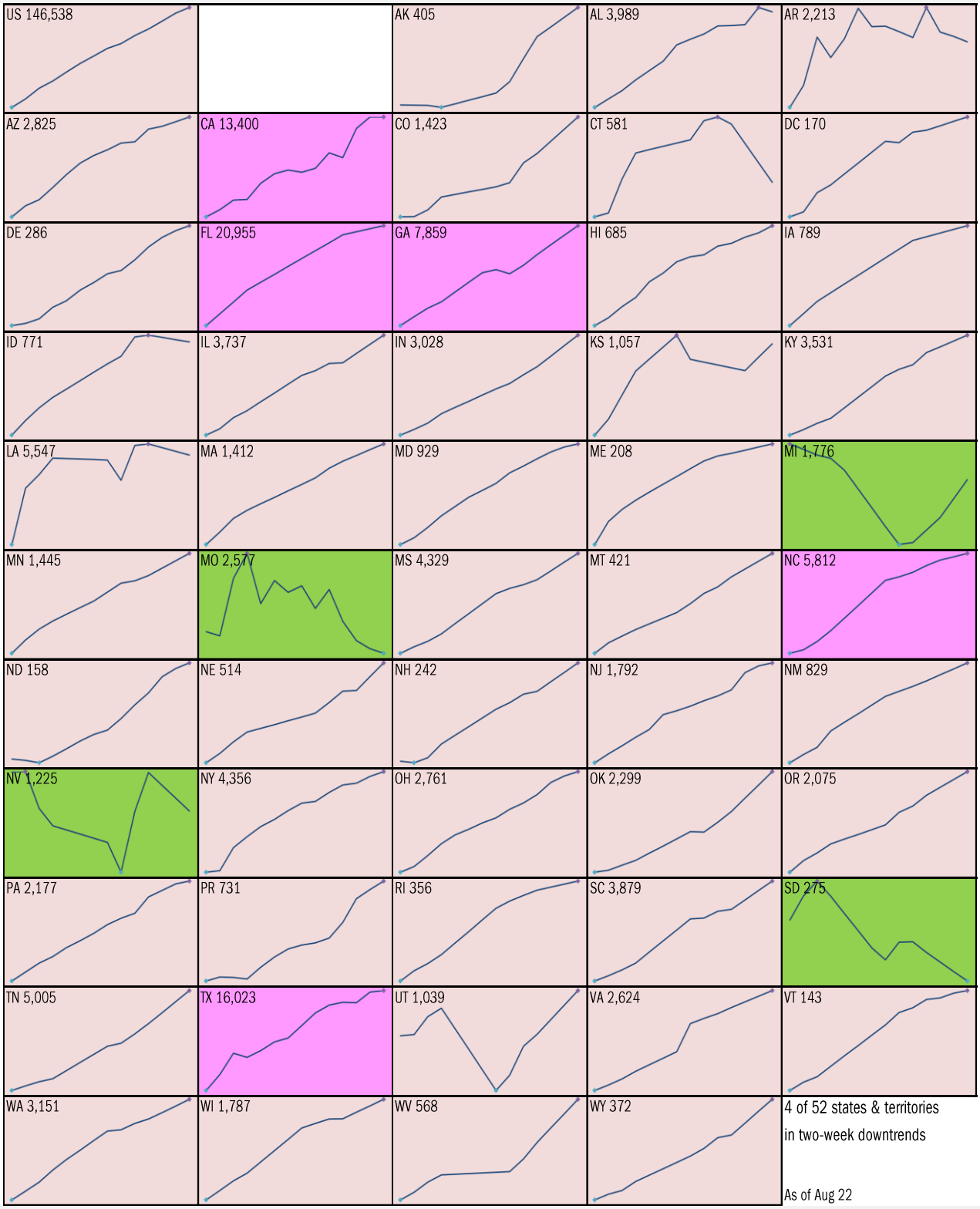


Source: Johns Hopkins, TrendMacro calculations

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

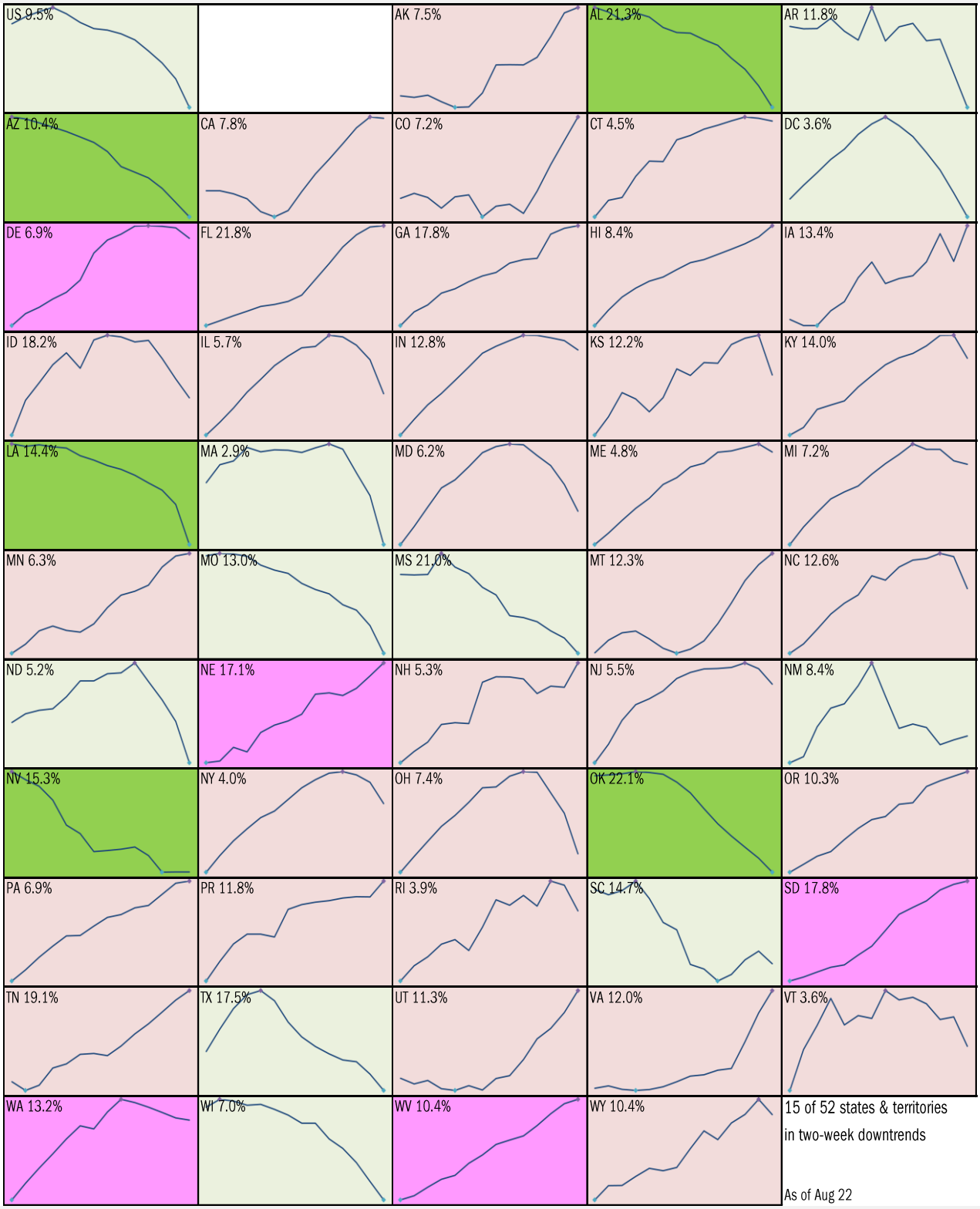


Source: Johns Hopkins, TrendMacro calculations

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

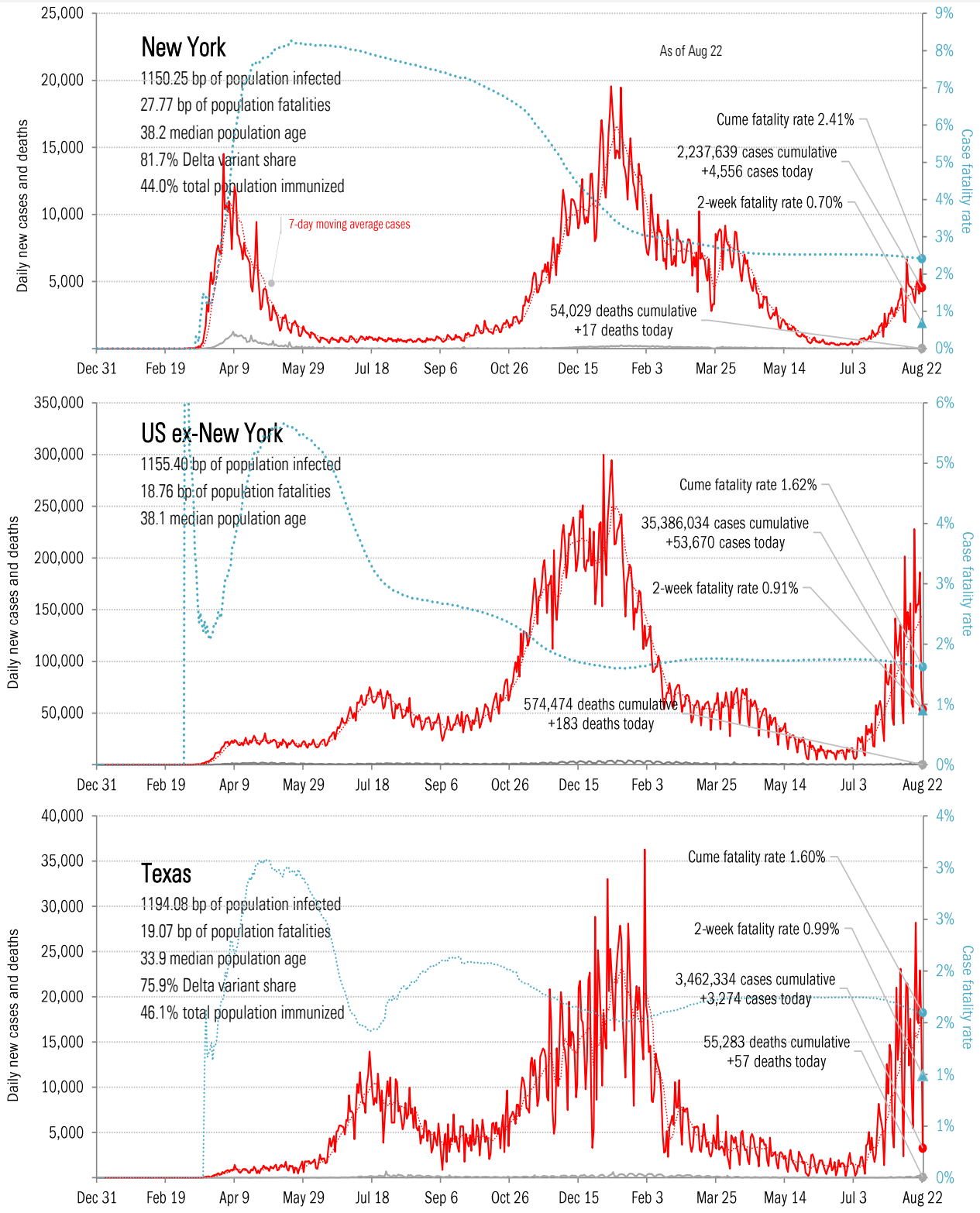
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst



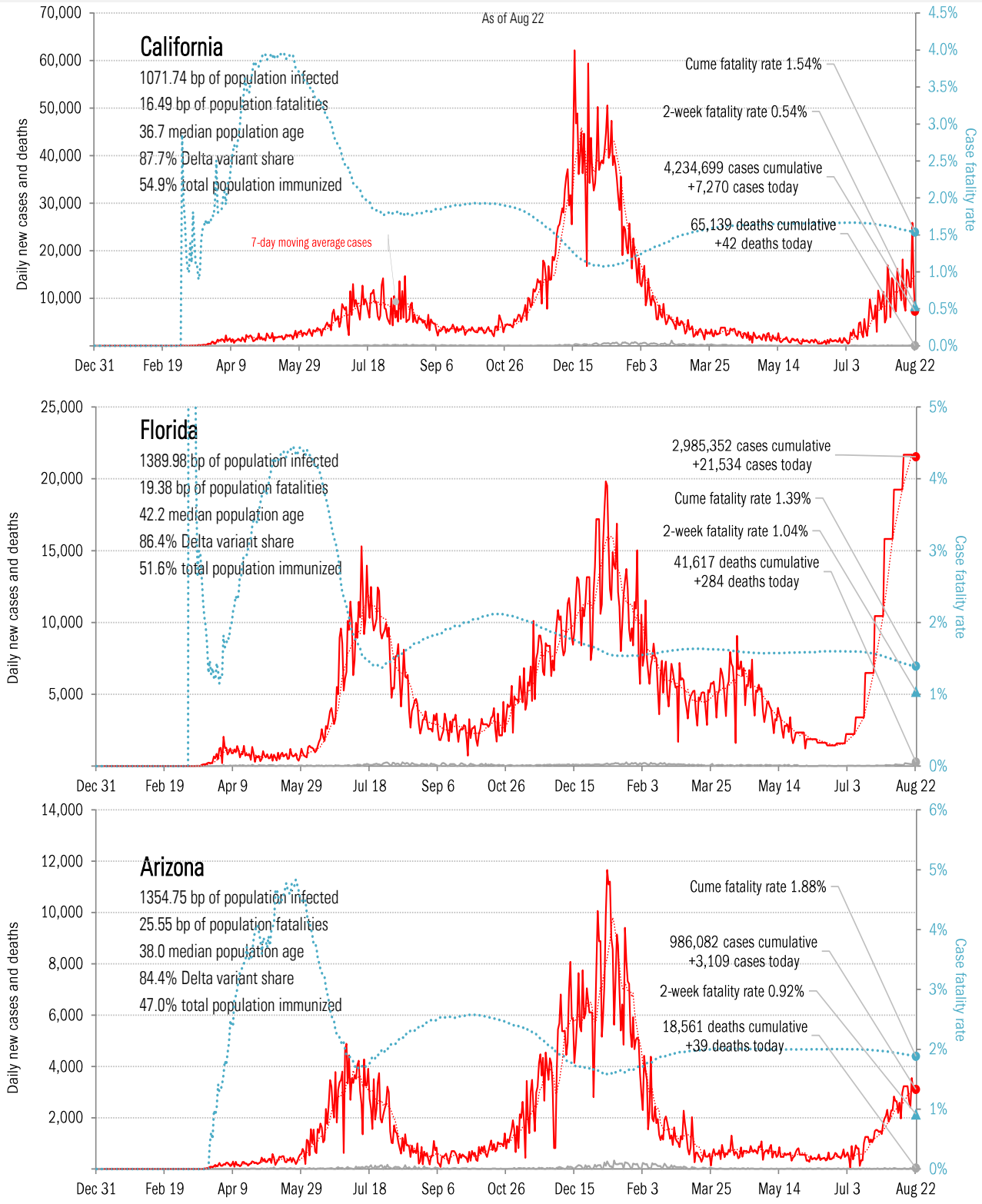
Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande



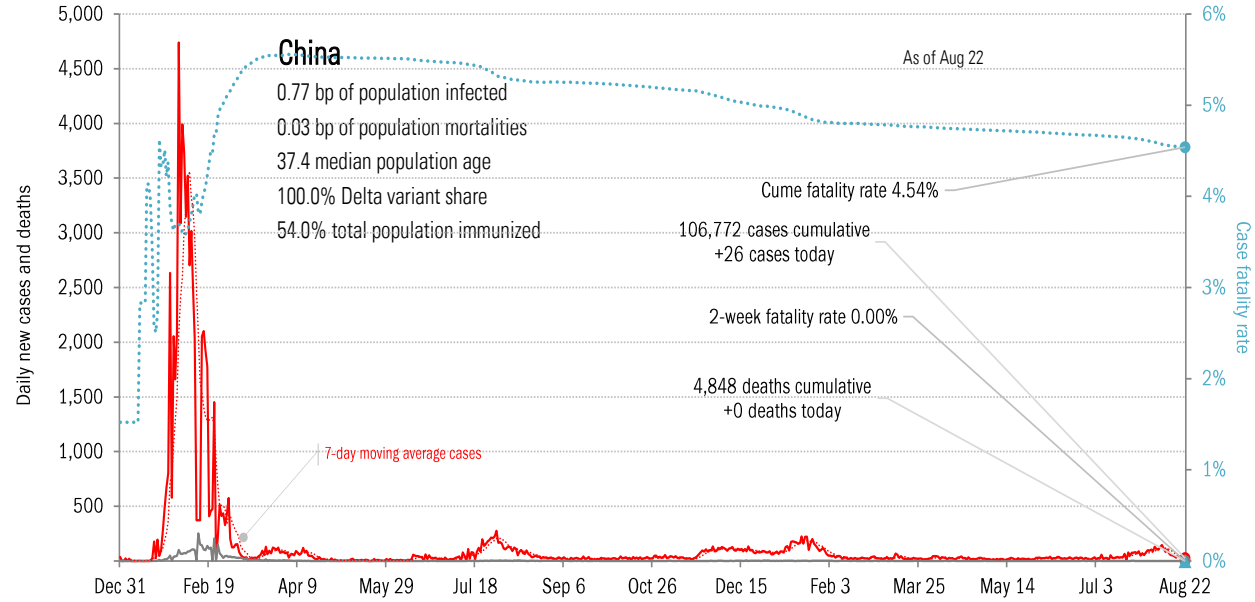
Source: Johns Hopkins, TrendMacro calculations

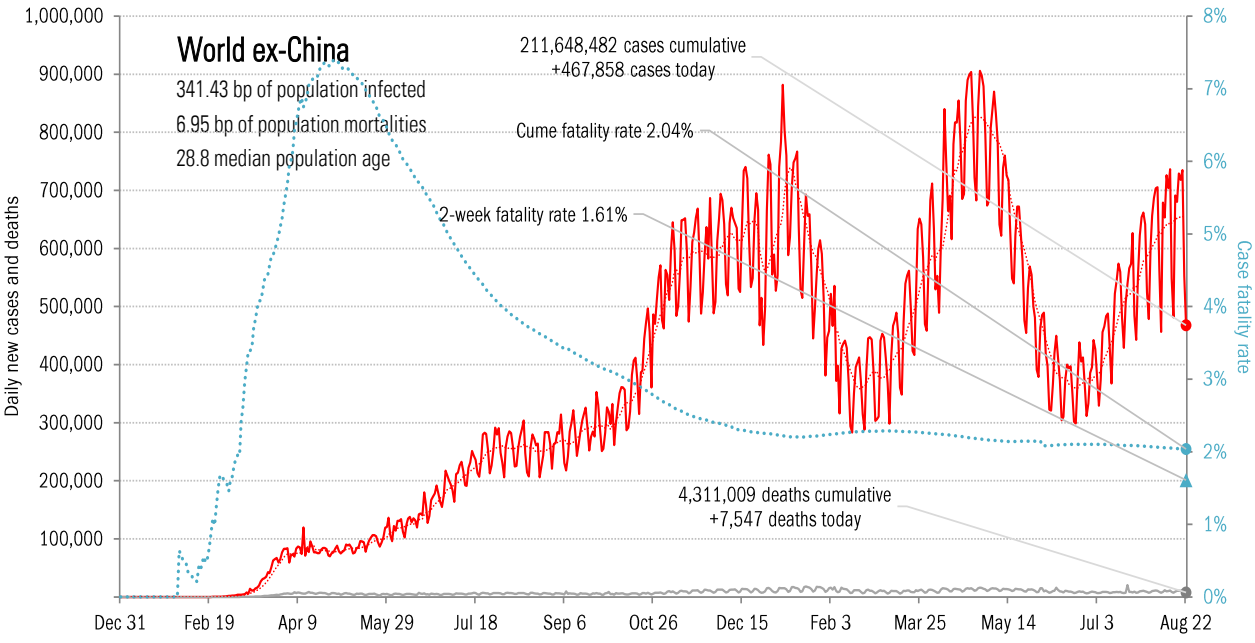
The sun-belt hot-spot states (other than Texas)



Source: Johns Hopkins, TrendMacro calculations

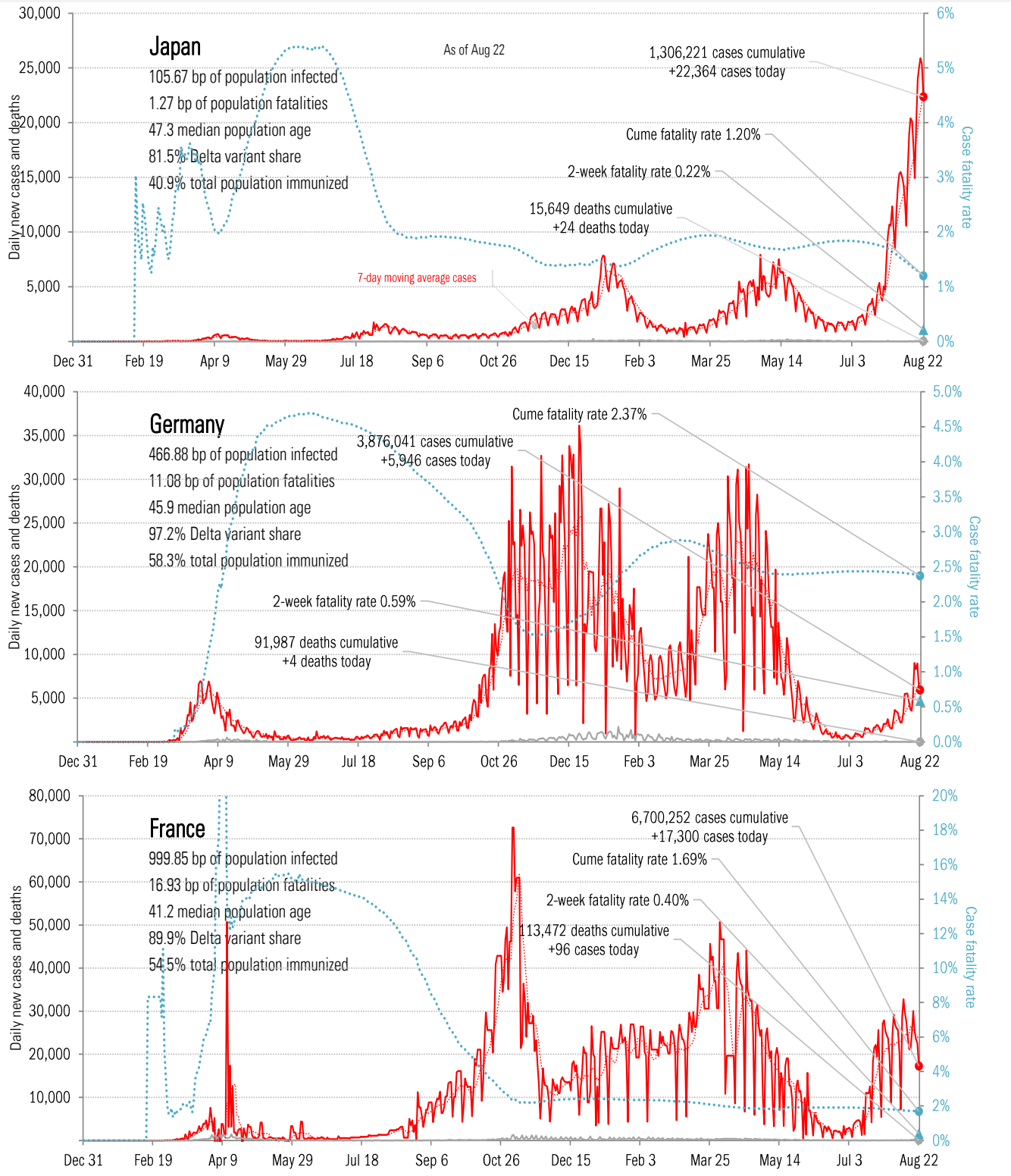
Patient zero… and then everyone else





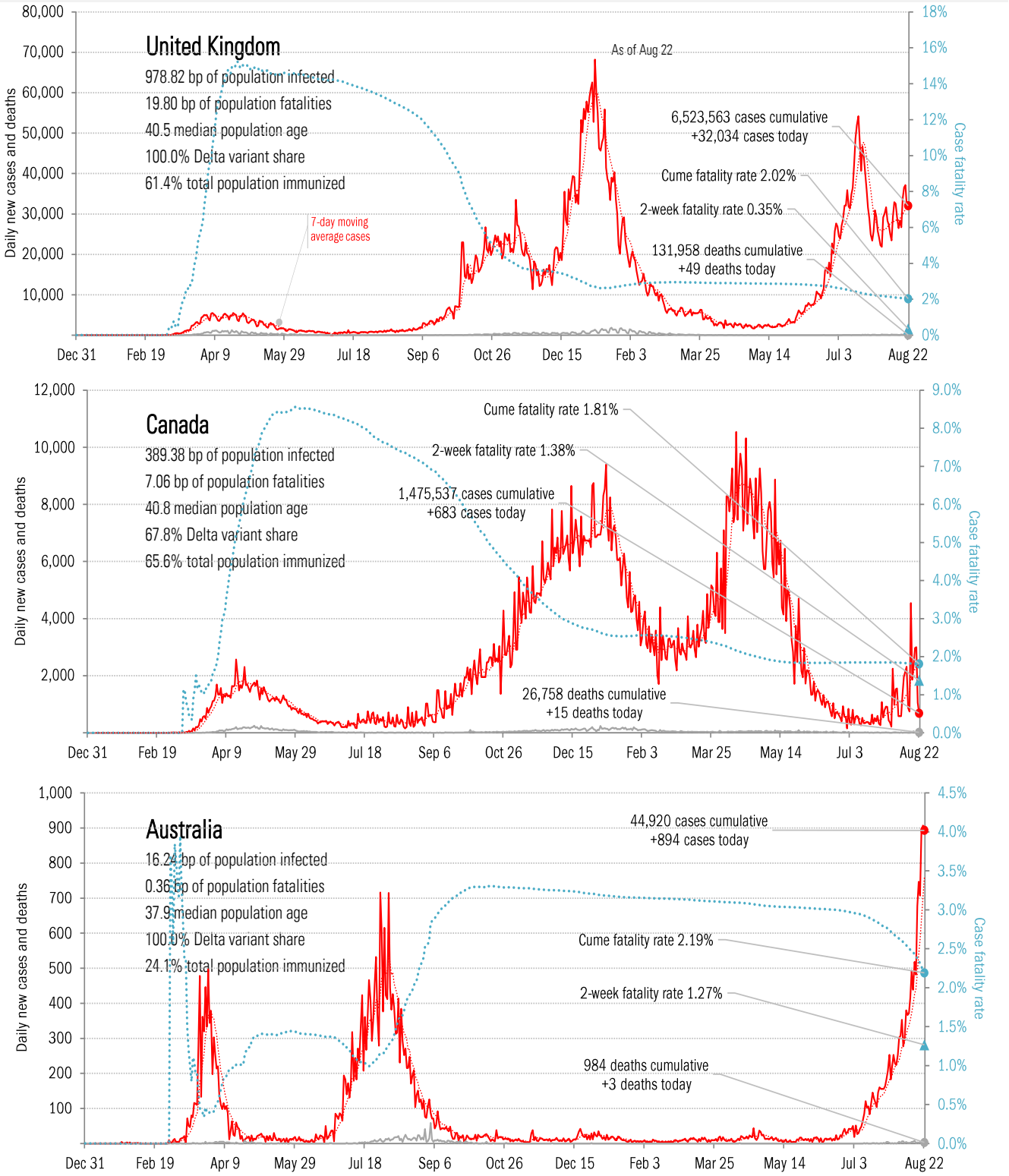
Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies



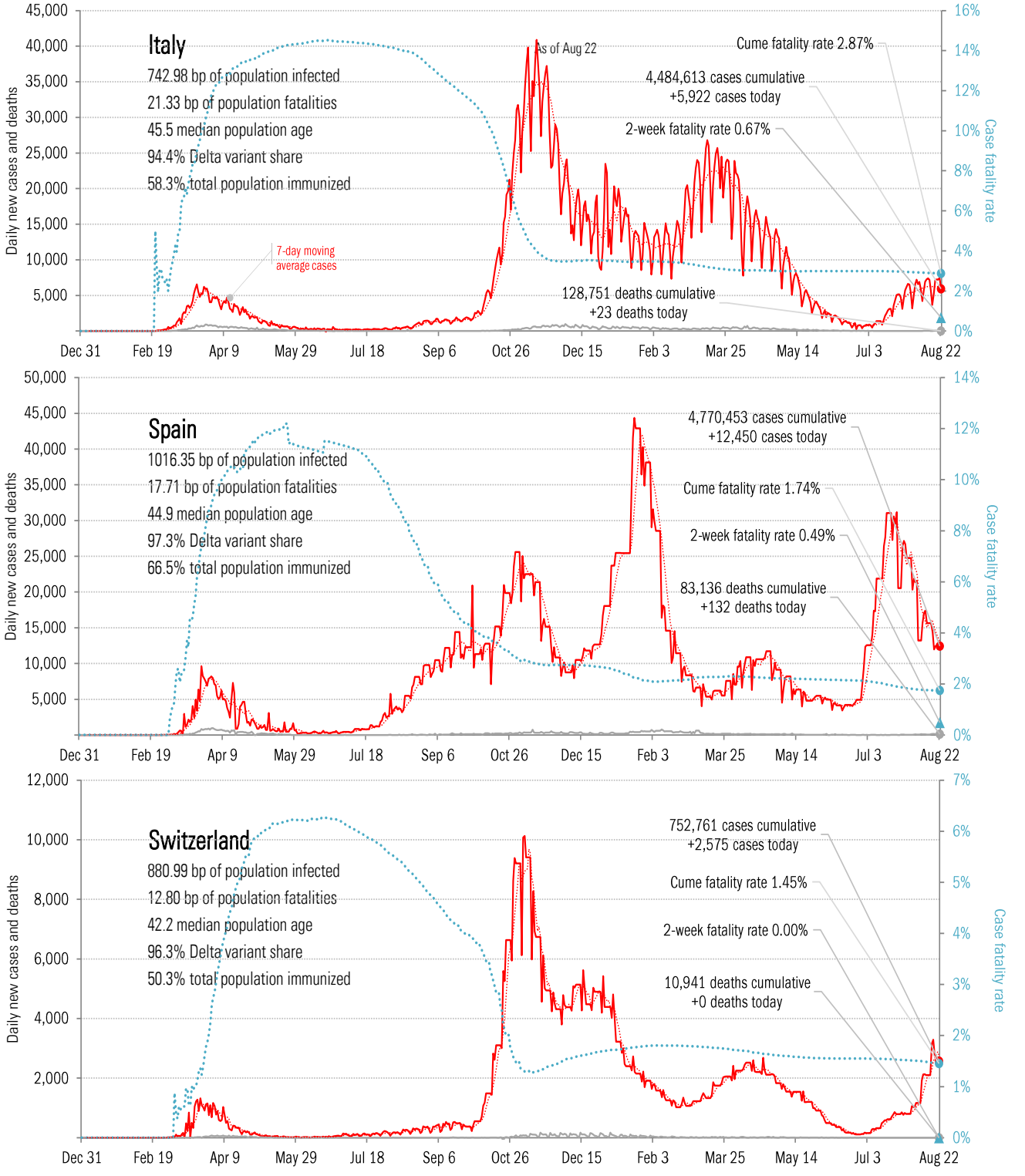
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



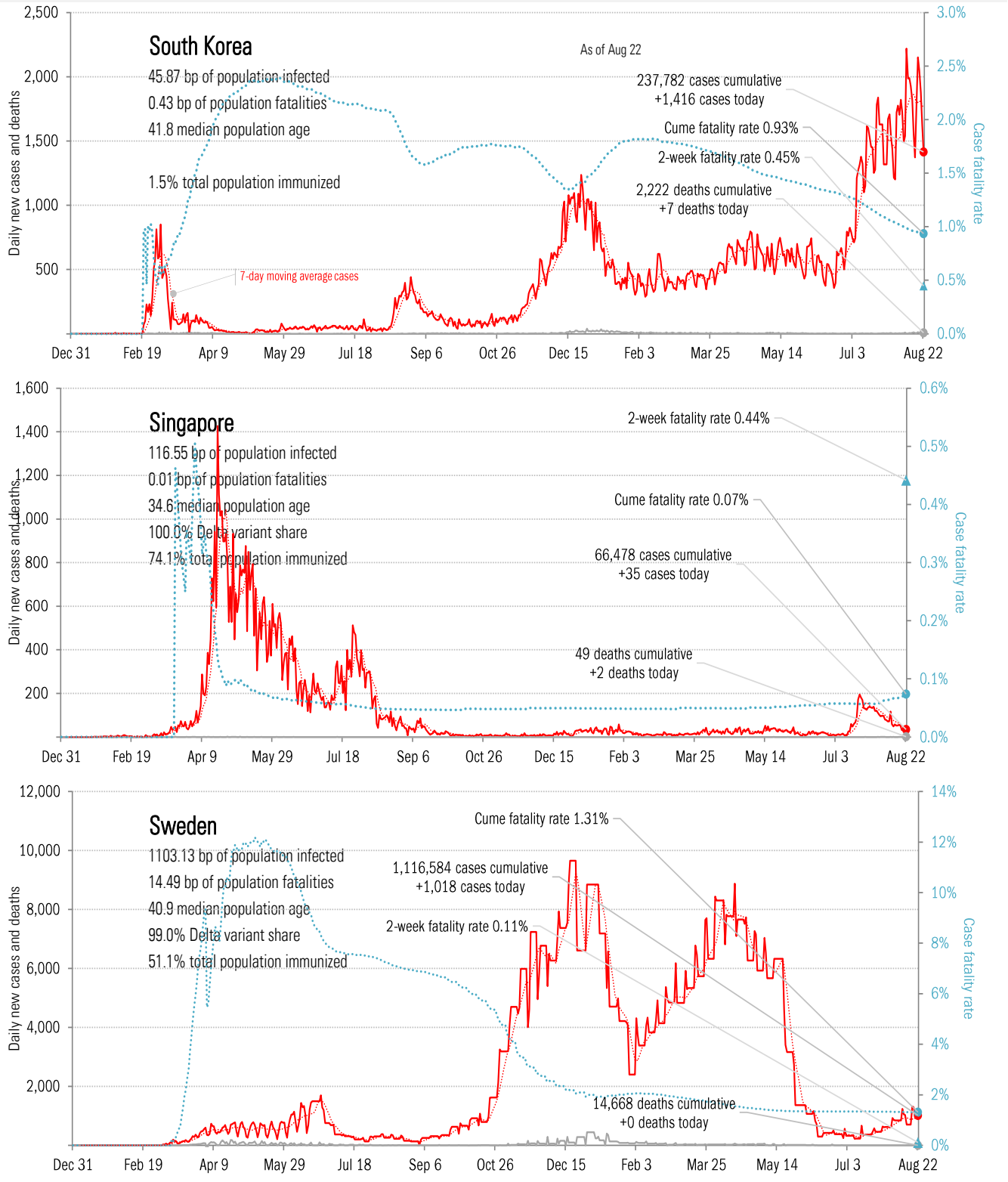
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



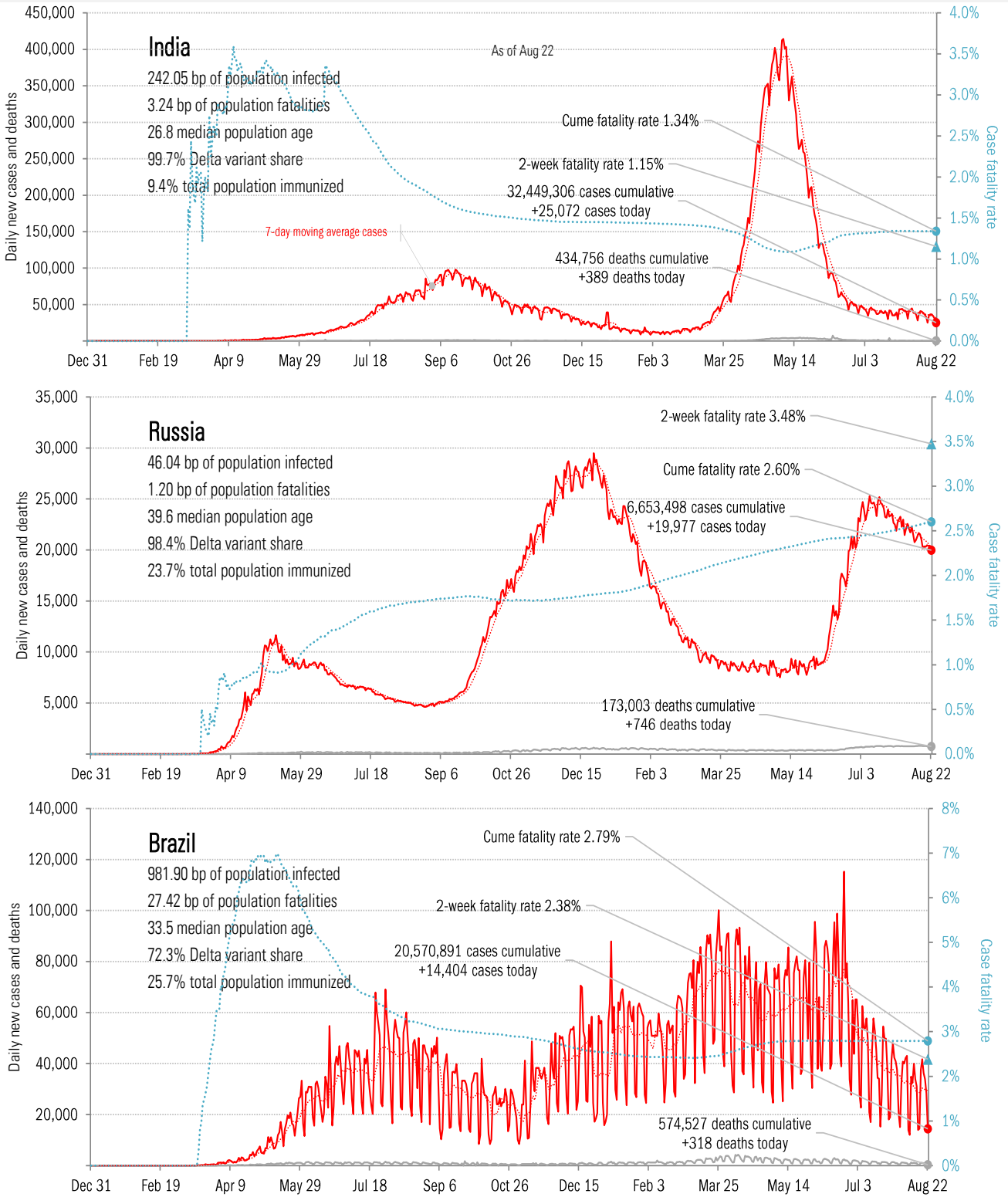
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



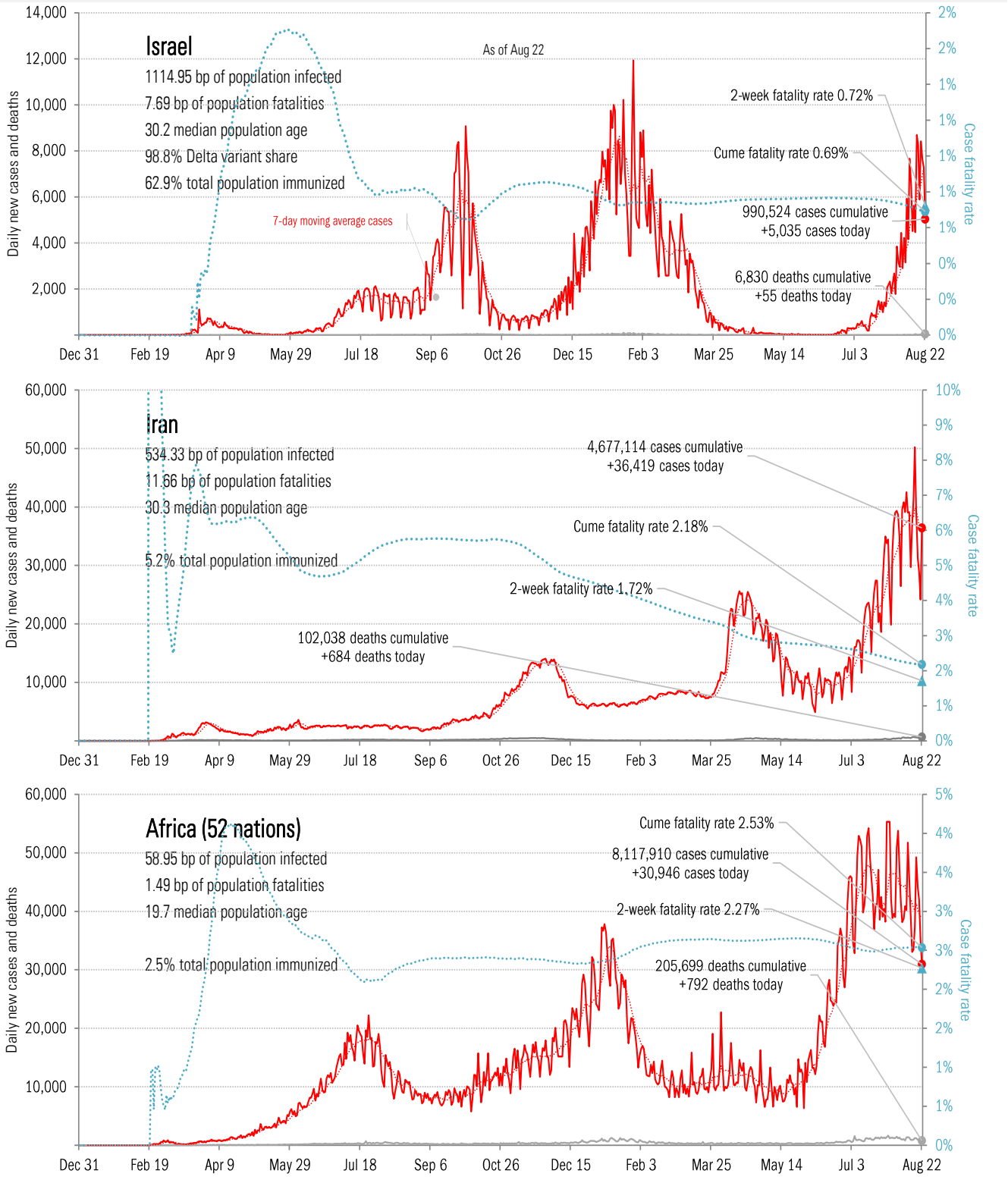
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



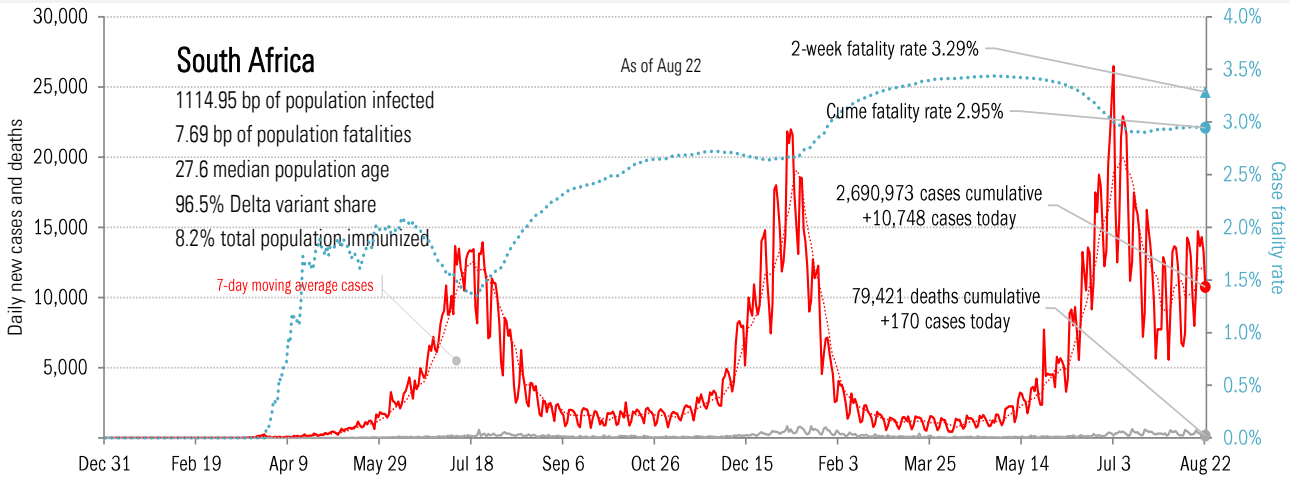
Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued



Source: Johns Hopkins, TrendMacro calculations