Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

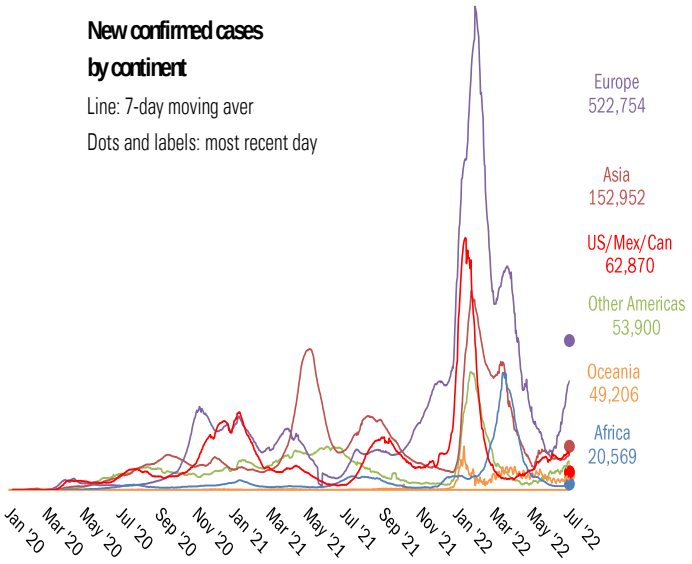
Tuesday, July 5, 2022

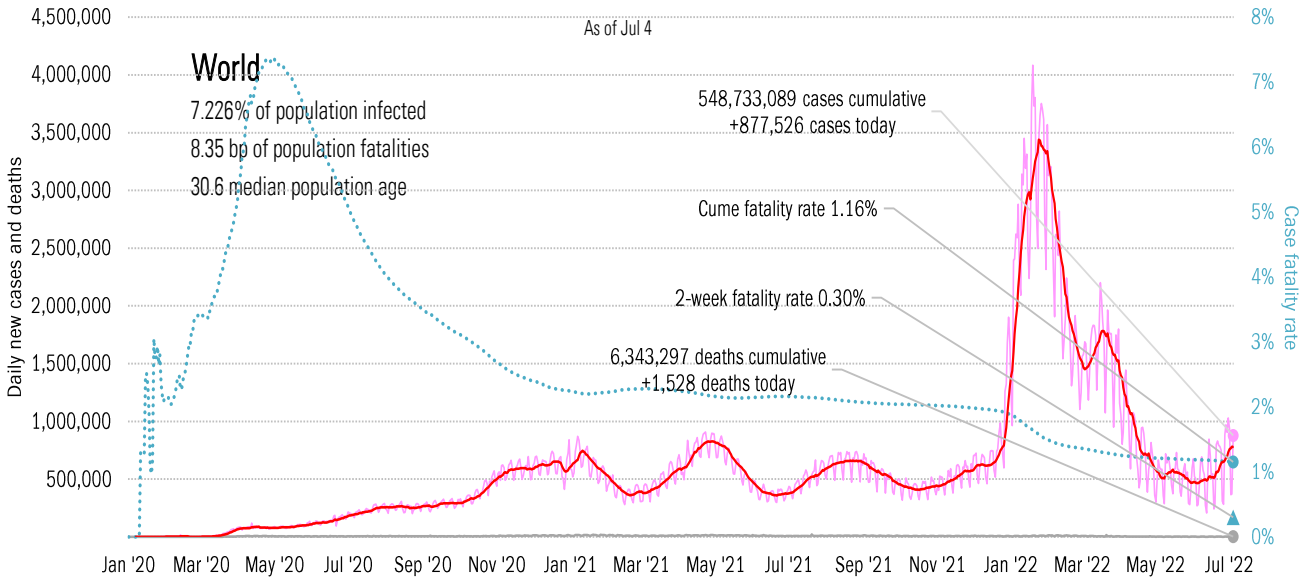
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
France	243,366	United States	542
Germany	147,489	France	141
United States	58,303	Brazil	122
Turkey	57,113	Germany	102
Brazil	45,501	Taiwan*	69
Italy	36,885	Italy	59
Australia	36,552	Australia	45
Austria	28,418	Russia	43
Taiwan*	23,115	Belgium	34
Belgium	19,218	Chile	28
	695,960		1,185
World	877,526	World	1,528
Top ten	79%	Top ten	78%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

The ten worst US states

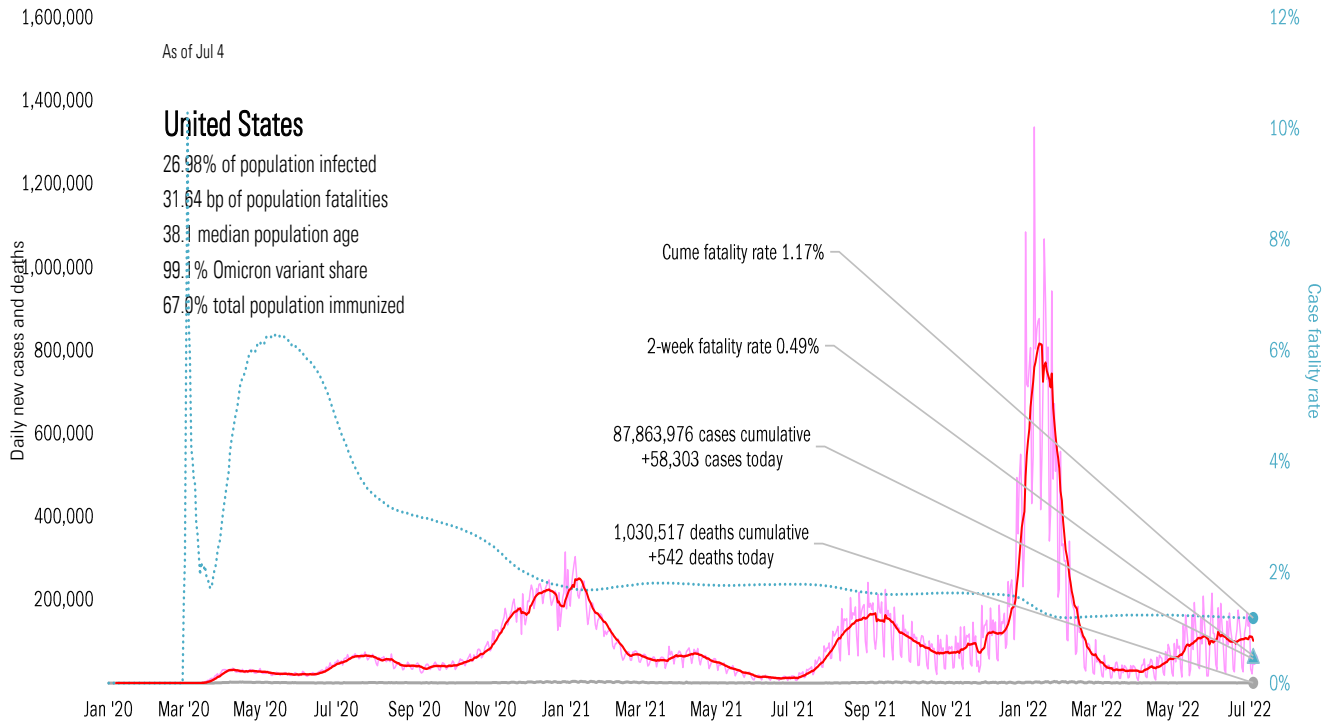
New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	15,316	FL	33	TX	486	CA	10,172,430	CA	92,403	TX	506,176	RI	91%	NM	87%
FL	12,916	VA	24	GA	216	TX	7,203,015	TX	88,735	CA	452,430	MA	86%	RI	86%
VA				FL	648	FL	6,513,559	FL	76,003	FL	445,911	MN	85%	TX	81%
CO				CA	608	NY	5,627,346	NY	69,698	NY	271,833	WA	84%	MA	81%
NJ				NJ	156	IL	3,435,405	PA	45,766	GA	210,632	NV	83%	NC	80%
WI				AL	111	PA	3,006,257	OH	38,852	OH	200,395	GA	80%	NV	80%
AL	3,337	CO	4	WI	64	NC	2,867,218	IL	38,601	PA	187,434	DE	80%	WA	79%
AZ	2,359	PR	2	KY	88	OH	2,848,453	GA	38,579	IL	169,302	WV	80%	MN	79%
NY	2,342	NJ	1	NC	128	GA	2,647,568	MI	36,918	MI	150,308	MO	80%	DC	78%
DE	686	AK	0	MI	111	MI	2,606,431	NJ	34,065	KY	136,407	DC	79%	DE	78%
	56,895		109		2,616		46,927,682		559,620		2,730,828				
All states	58,303		542		5,063	All states	87,863,976		1,030,517		4,960,121	All states	70%		67%
Top ten	98%		20%		52%	Top ten	53%		55%		55%	Median	73%		71%

US state case and fatality data distorted today due to weekend delays.

Some states not reporting

Five most improved US states

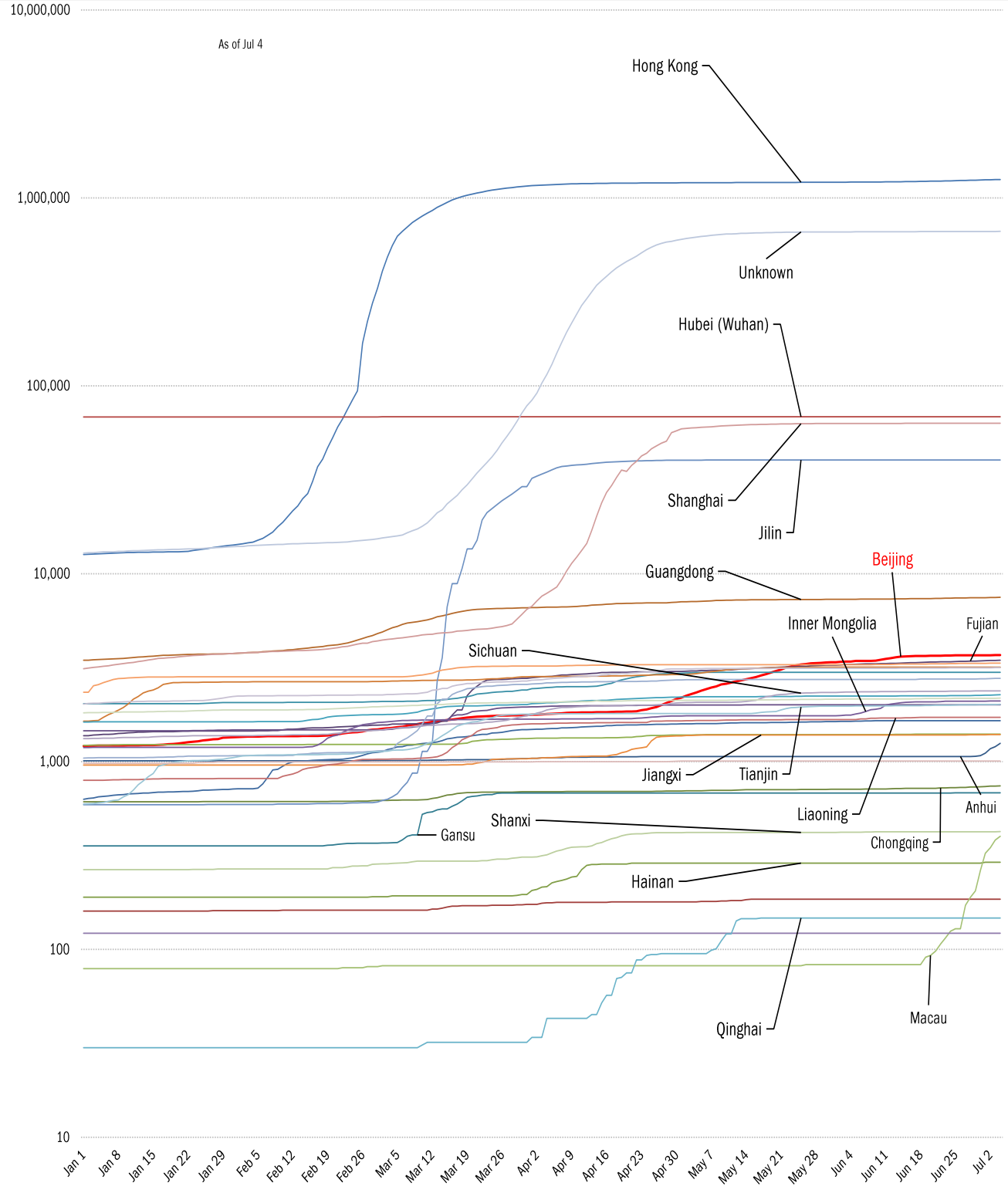
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
PR	-1,311	FL	-46	CA	-72	WY	+384 bp
NY	-454	AK	0	NY	-64	PA	+377 bp
AK	0	AR	0	MD	-52	MO	+377 bp
AS	0	AS	0	MA	-31	AZ	+370 bp
DC	0	CT	0	WA	-26	ID	+363 bp



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

China provincial coronavirus case accelerometer… tracking the "zero Covid" curves

Cumulative reported cases this year, log scale: flat line indicates "zero Covid"



Source: Johns Hopkins, TrendMacro calculations

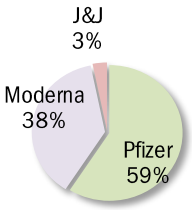
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	611,219,538				+0.273 million
of which boosters	108,244,239				+0.258 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	267,952,785	80%	228,544,890	68%	+0.011 million
Age 12 to 17	17,933,269	71%	15,342,644	61%	+0.002 million
Age 18 to 64	179,772,602	88%	152,575,922	75%	+0.013 million
Age 65 and over	59,401,488	100%	51,938,445	95%	+0.013 million

Immunity	Full	Partial
US	66.9%	78.1%
UK	73.5%	78.6%
France	78.5%	80.8%
Spain	86.8%	88.3%
Germany	75.5%	77.1%
Italy	79.4%	84.2%
Australia	84.0%	86.7%
Israel	66.1%	72.3%
Canada	82.6%	86.1%
Japan	81.2%	82.3%
Africa	18.5%	23.7%
India	65.6%	73.0%
Brazil	78.9%	86.3%
China	87.3%	89.6%

Global data differs due to sources, timing



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

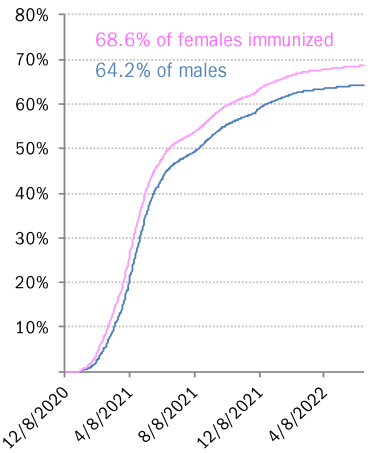
"Immunity" = two doses

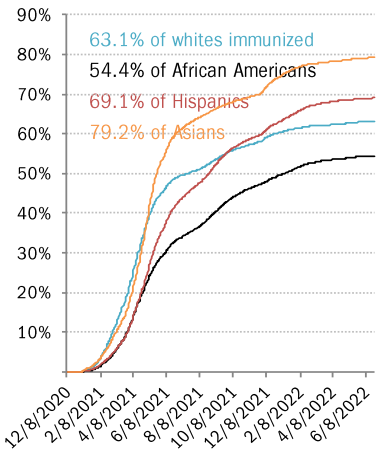
Best
Middle
Worst

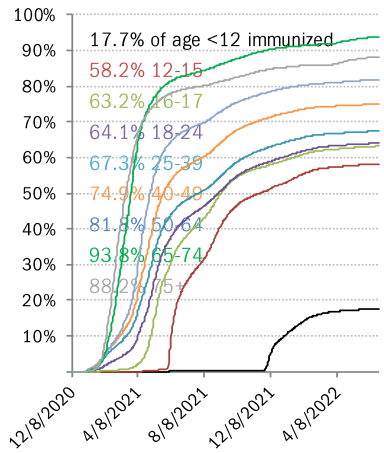
As of Jun 30

					WI					ME
					72.4%					91.9%
					66.1%					80.5%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
81.7%	62.3%	65.8%	66.2%	75.7%	76.3%	67.5%		91.1%	94.6%	89.6%
73.0%	55.8%	57.3%	56.1%	69.7%	69.0%	60.7%		77.8%	82.0%	71.6%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
78.6%	76.2%	58.7%	77.7%	68.4%	62.6%	63.7%	86.2%	91.4%	95.0%	
70.2%	61.4%	51.4%	62.6%	62.4%	56.4%	58.8%	69.6%	76.5%	80.0%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
83.0%	72.8%	80.2%	70.9%	66.8%	66.7%	65.6%	86.8%	87.6%	95.0%	95.0%
72.8%	64.8%	70.8%	64.1%	56.7%	57.9%	58.1%	73.8%	76.5%	80.1%	83.7%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	74.3%	89.1%	73.1%	67.4%	62.7%	85.8%	68.5%	95.0%	84.2%	
	62.4%	72.0%	62.6%	55.0%	54.9%	62.5%	57.7%	76.2%	70.1%	
			OK	LA	MS	AL	GA			
			71.8%	61.5%	60.2%	63.3%	66.1%			
			57.9%	53.9%	52.3%	51.6%	55.4%			
HI			TX					FL		PR
88.5%			74.4%					80.2%		95.0%
79.0%			62.3%					67.6%		83.6%

The demographics of US vaccination



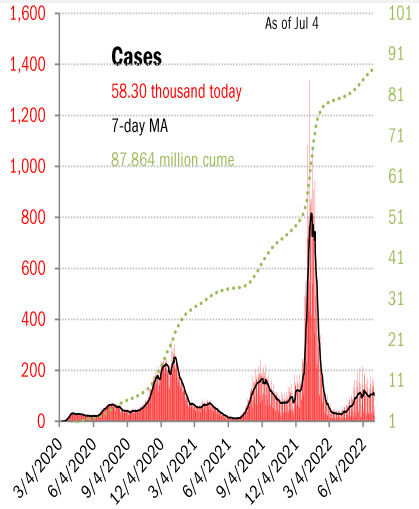


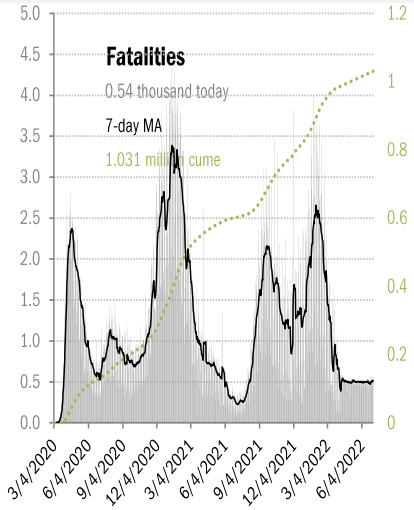


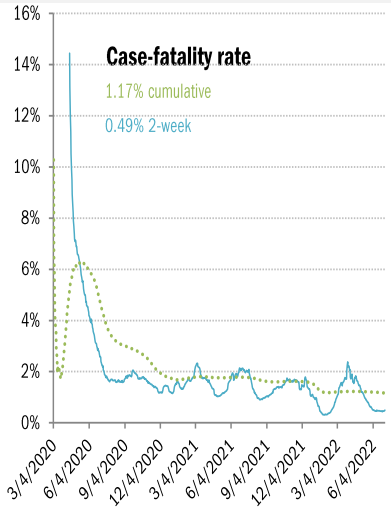
Source: CDC, CDC, Our World in Data, TrendMacro calculations

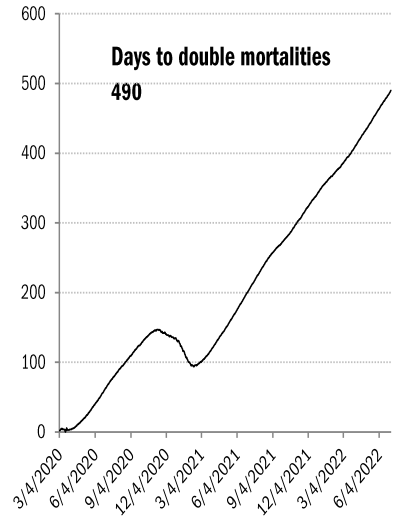
US deep-dive

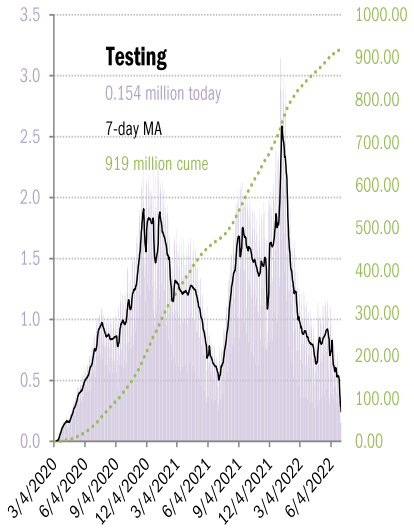
National and state-by-state data do not line up because of different sources

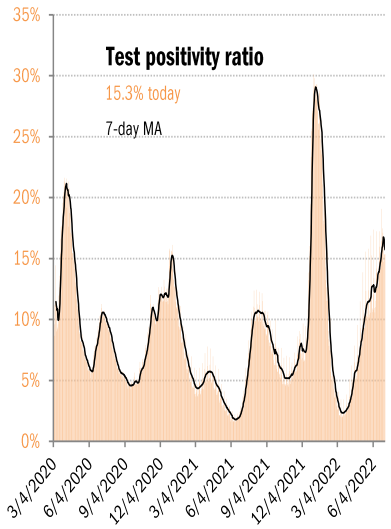


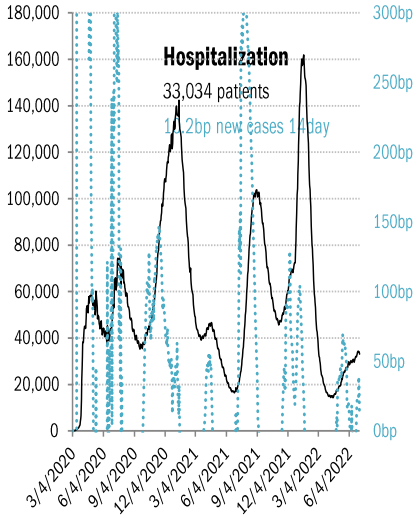


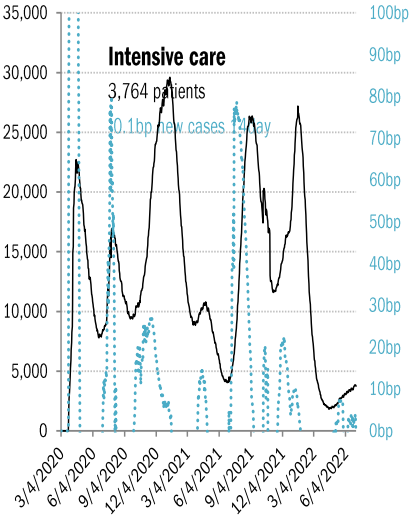


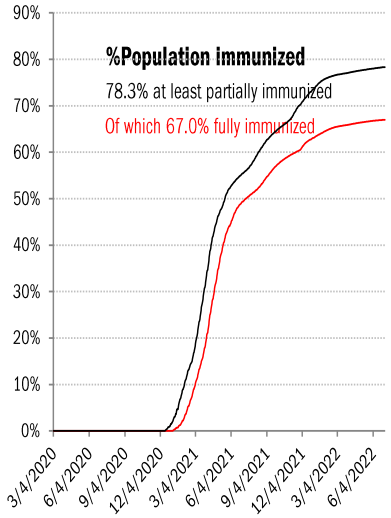












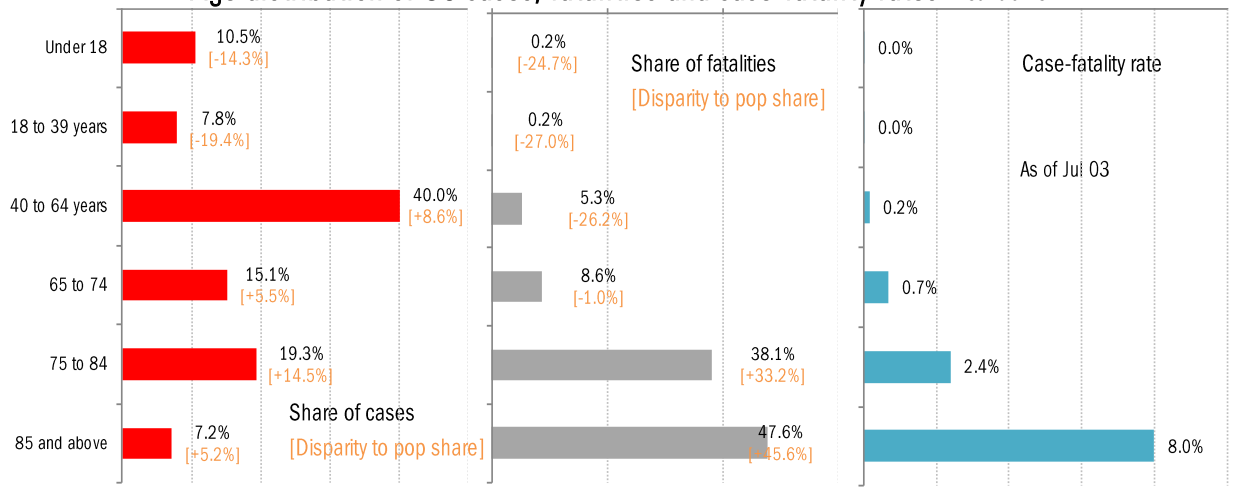
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

US deep-dive: demographics of age, race and health

Updates weekly on Sunday, 1 week lag

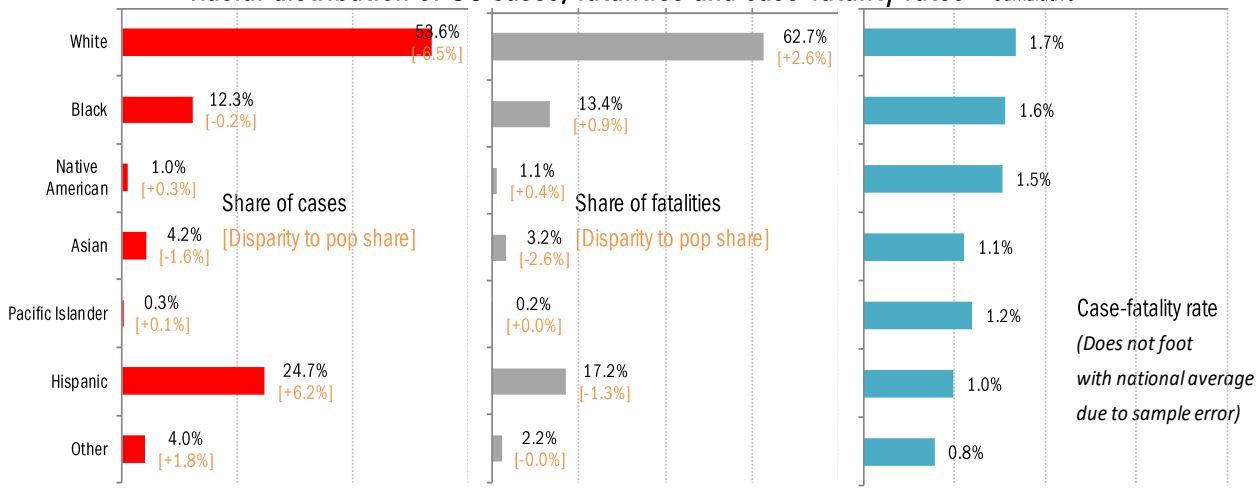
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



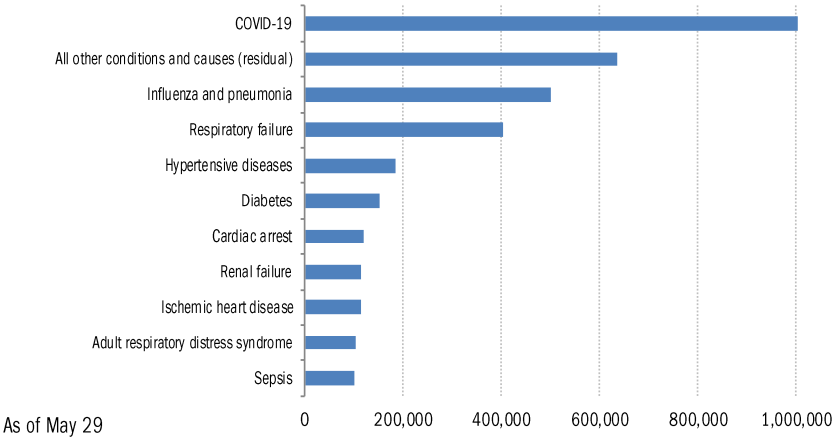
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of May 29

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

Comorbidity data has been paused by the CDC while making "system upgrades."

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

China tiptoes towards living with Covid-19 under evolving 'dynamic zero' policy
Zhou Xin
South China Morning Post
July 5, 2022

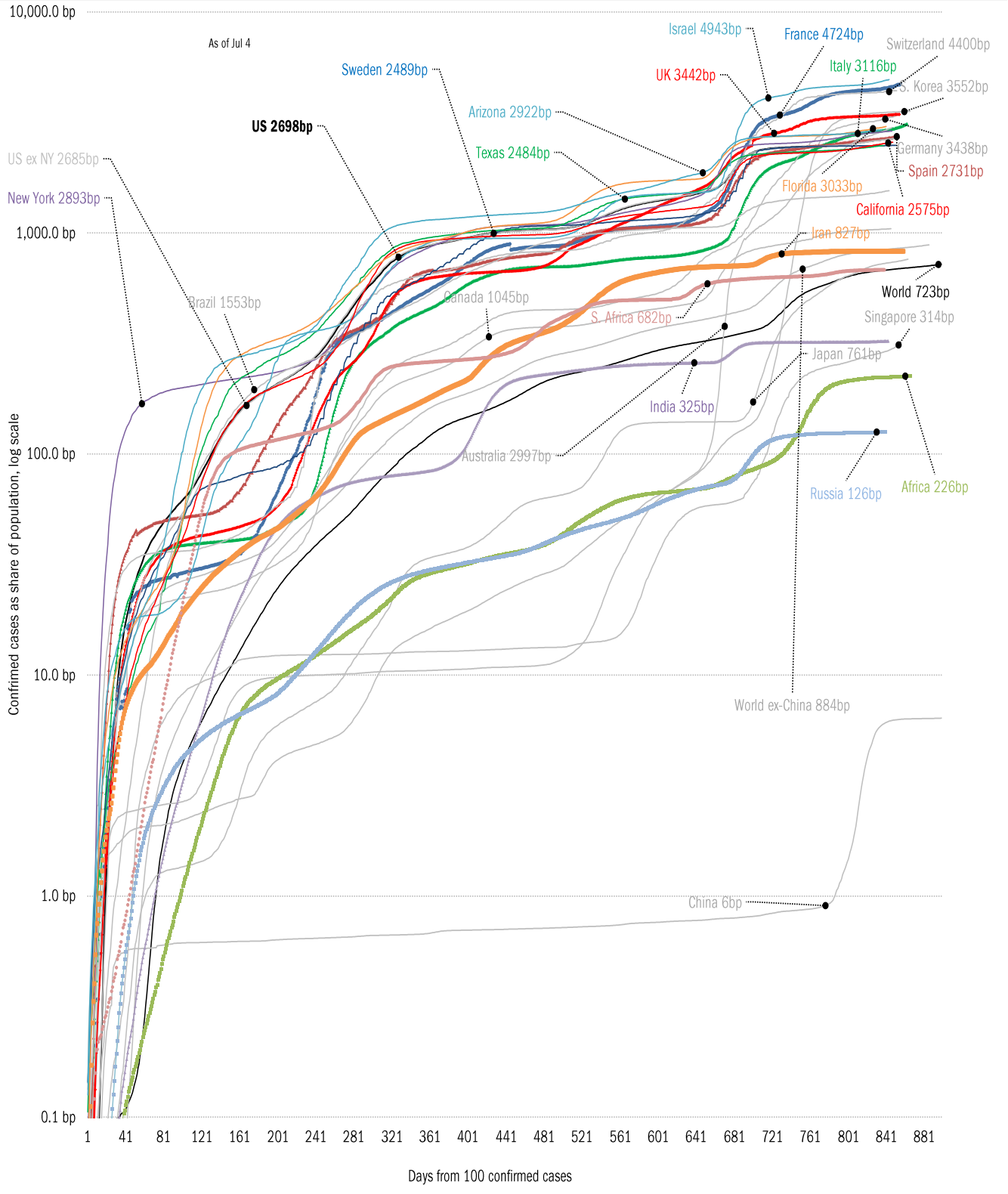
Macau COVID outbreak hits more than 900 as infections spread
Reuters
July 4, 2022

Meme of the day

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

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

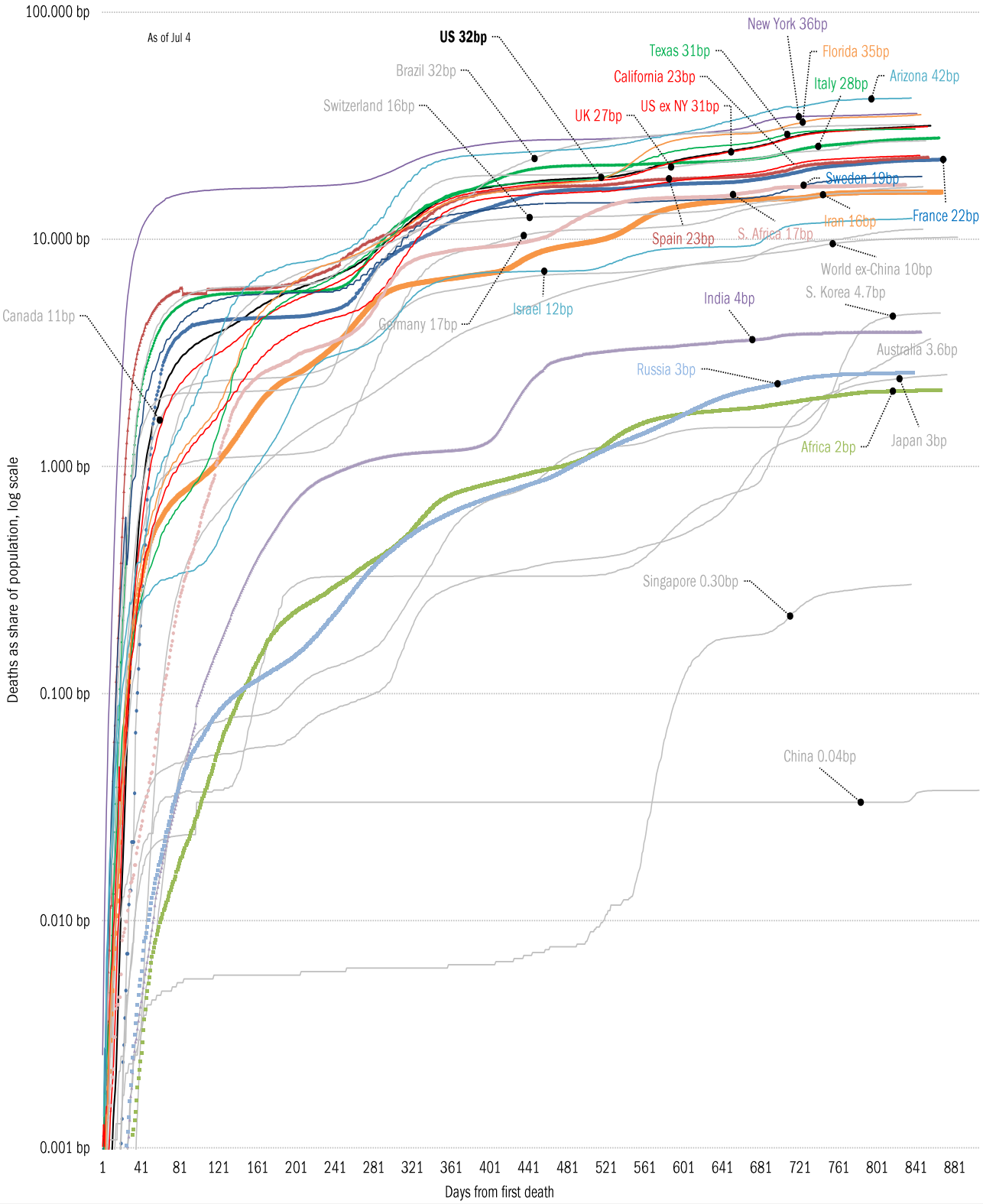
Share of infected population from first day with 100 confirmed cases, log scale



Source: Johns Hopkins, TrendMacro calculations

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

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

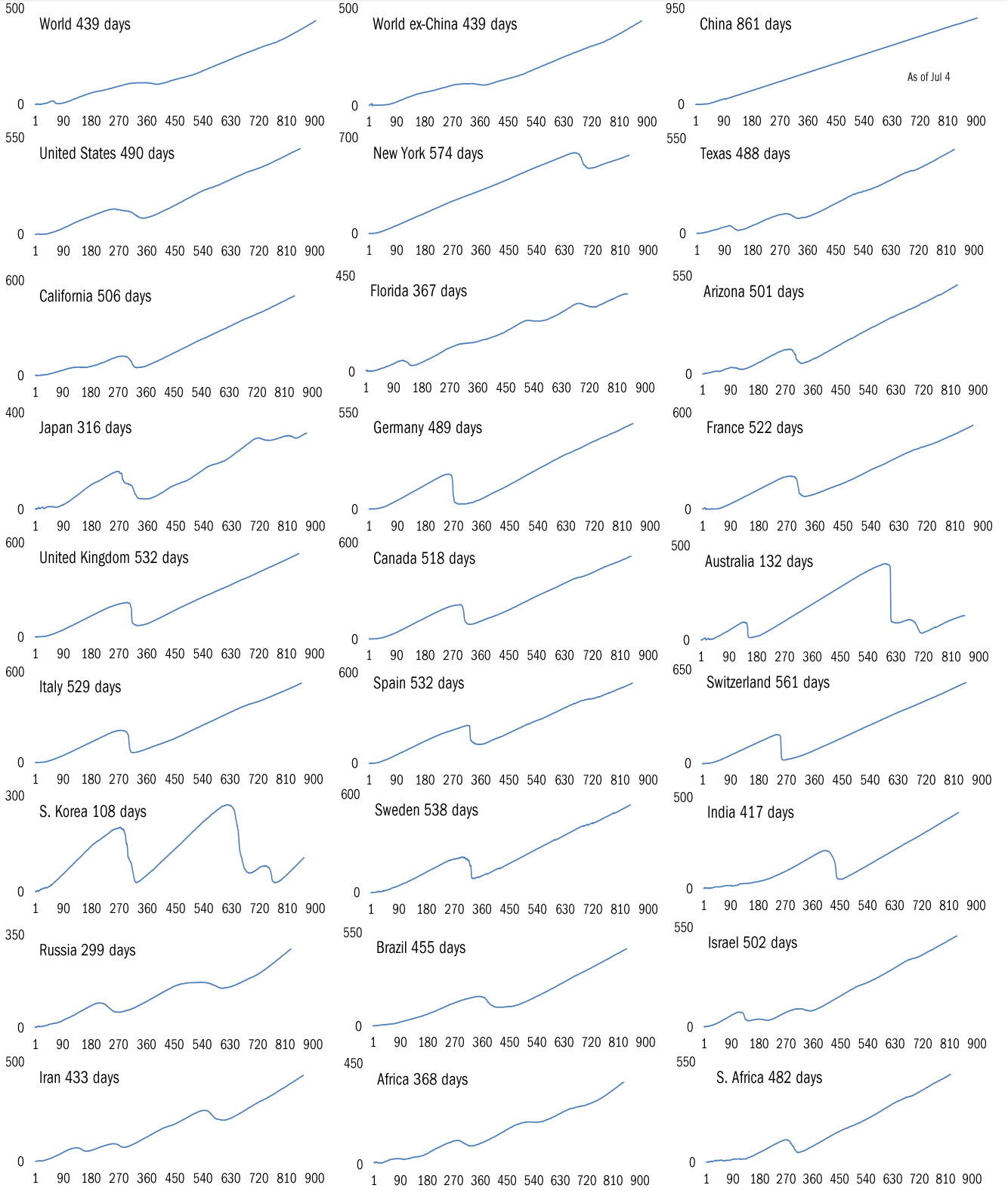


Source: Johns Hopkins, TrendMacro calculations

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

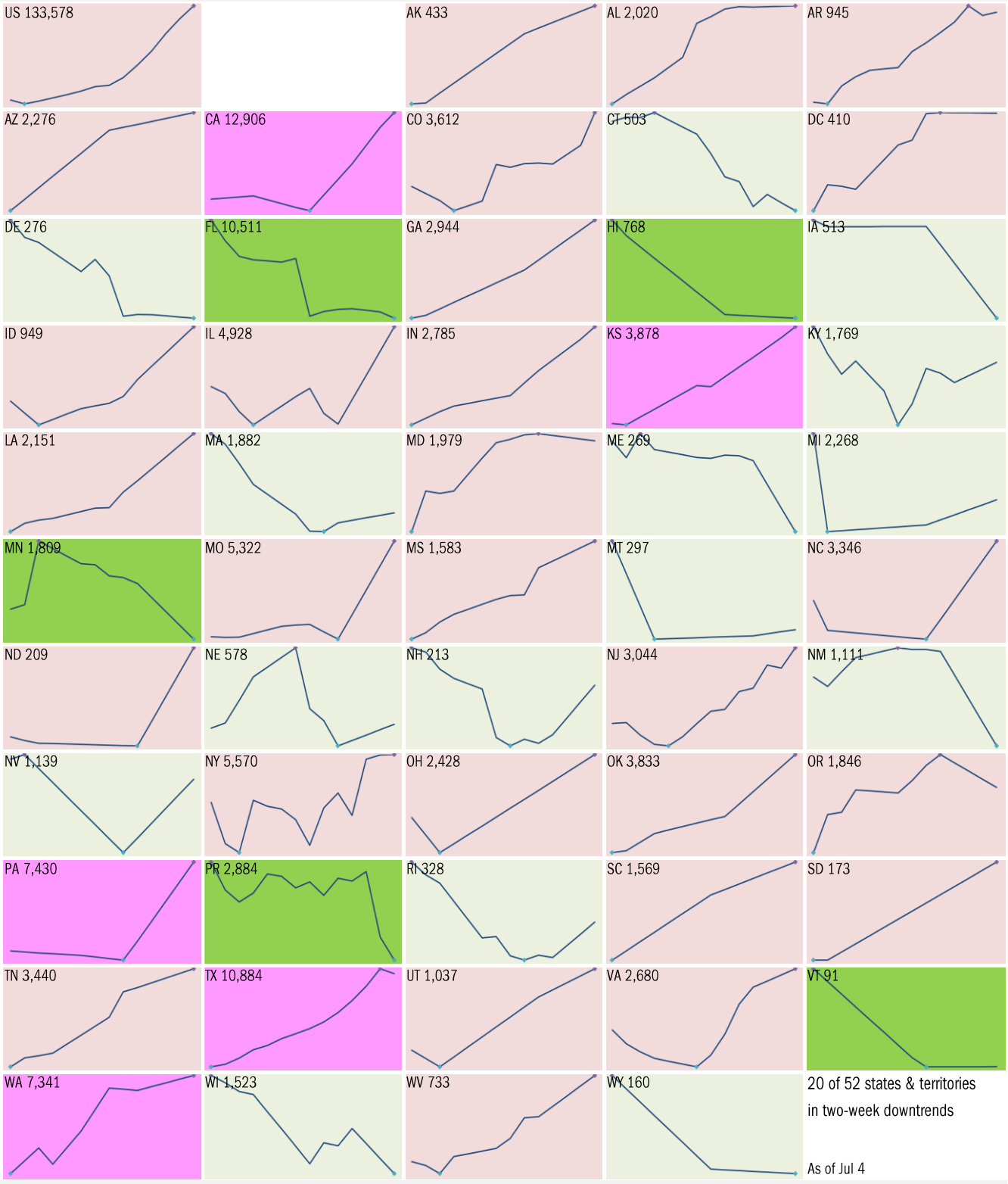


Source: Johns Hopkins, TrendMacro calculations

14-day 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

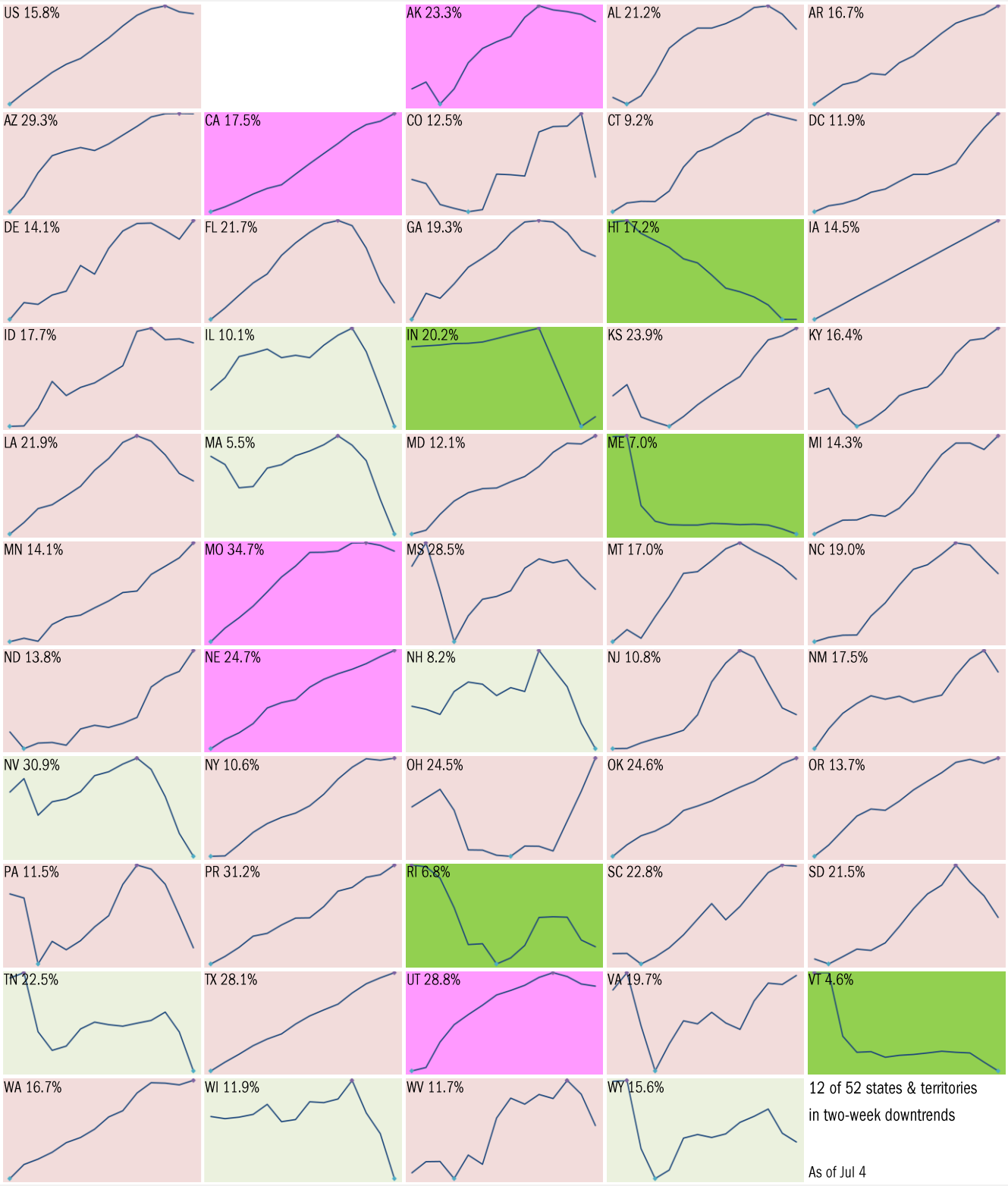


Source: Johns Hopkins, TrendMacro calculations

14-day trajectory in **test-positivity ratio**

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

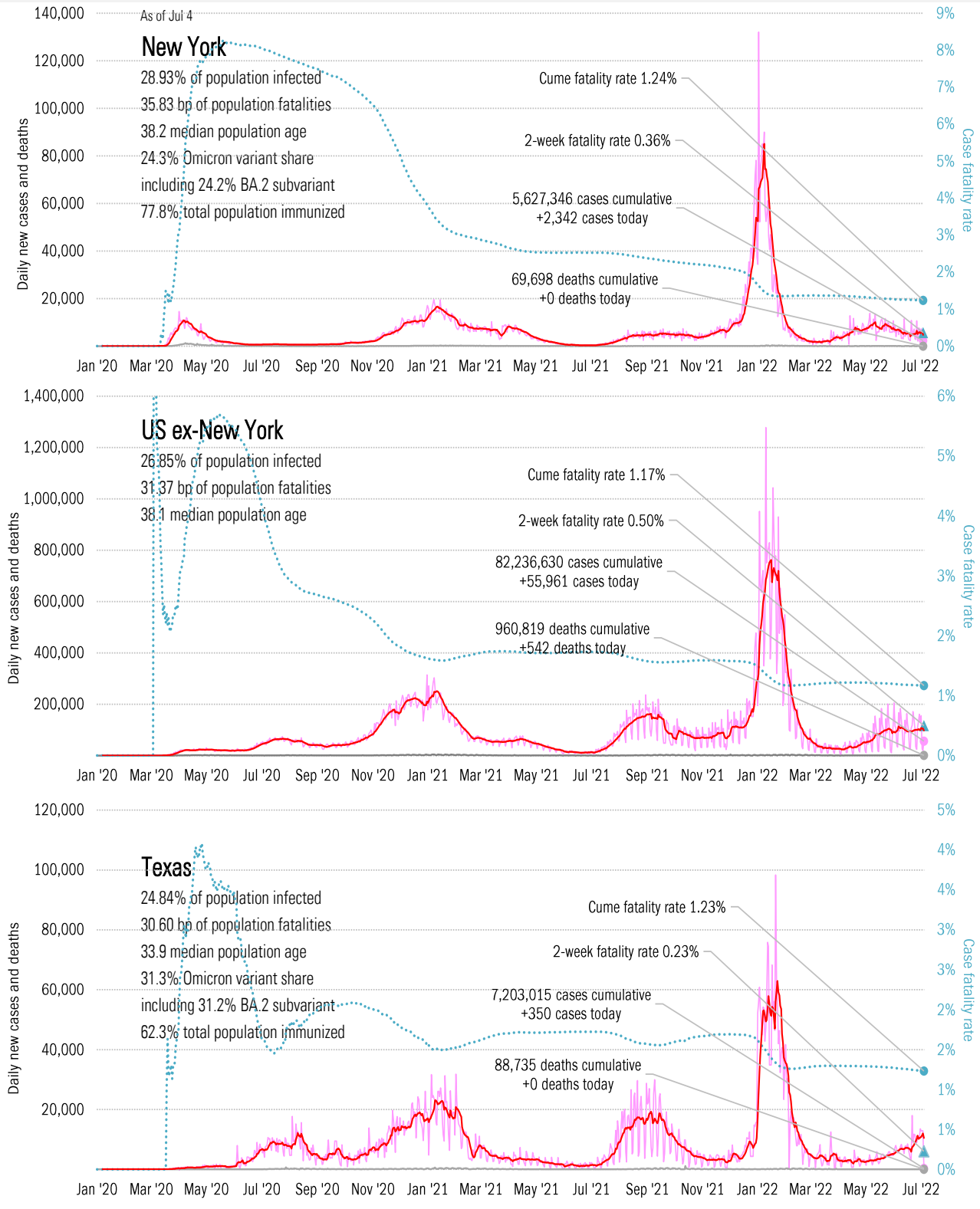
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

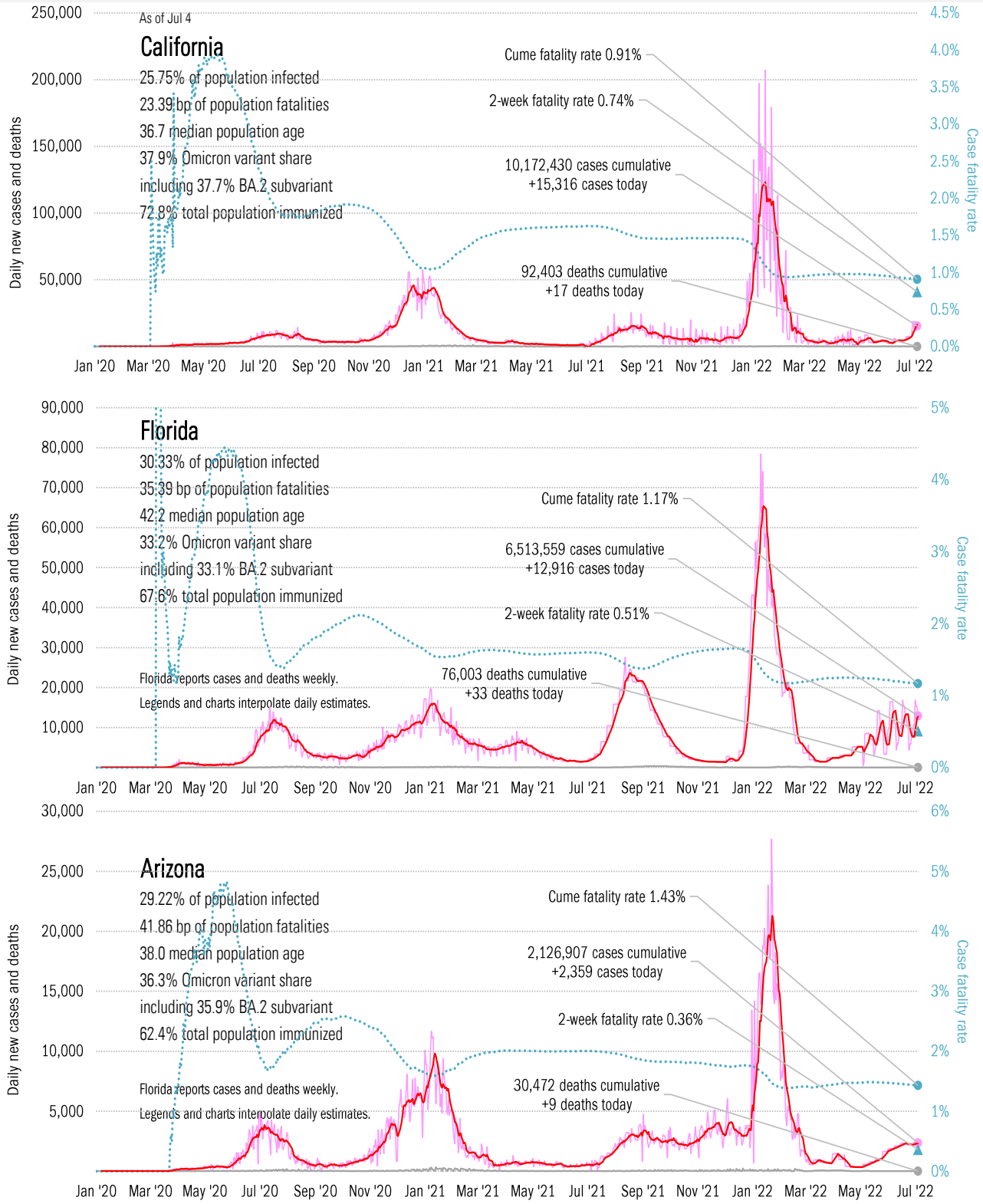
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

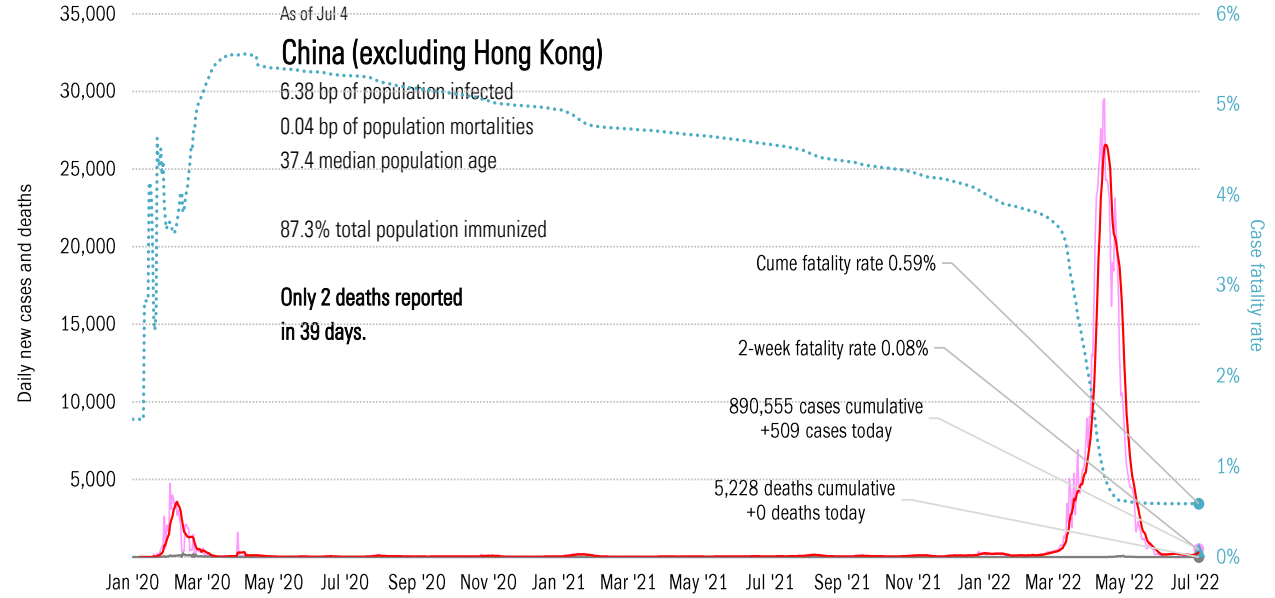
Cases: 7-day average and daily Deaths: Daily

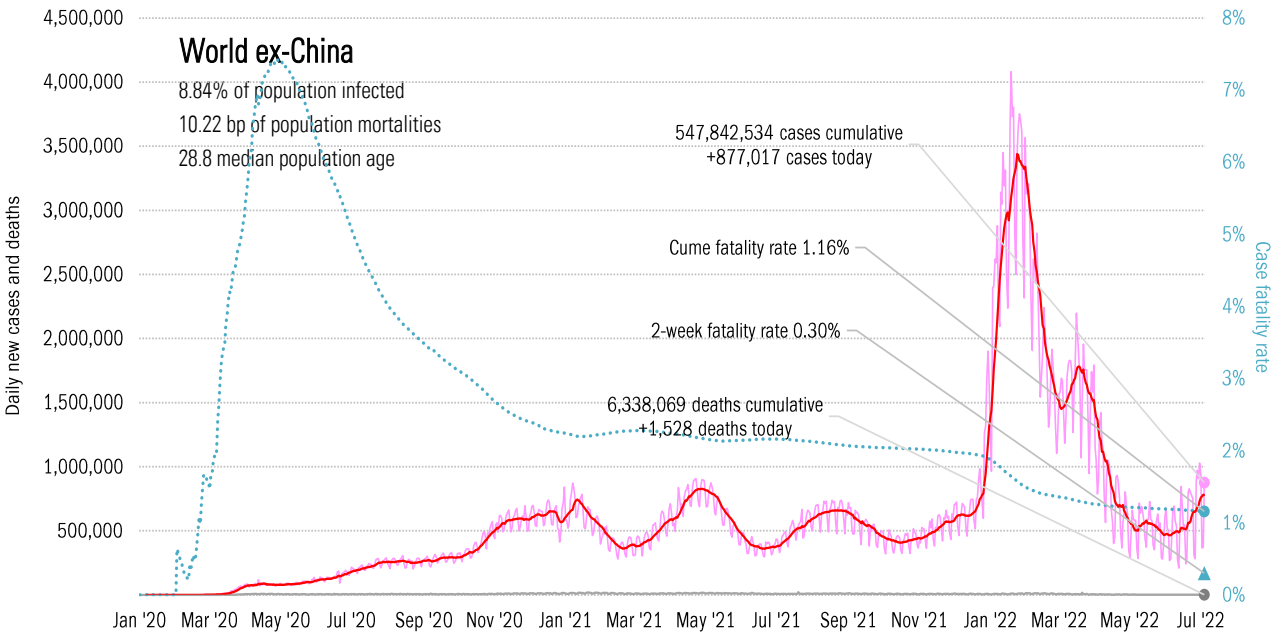


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

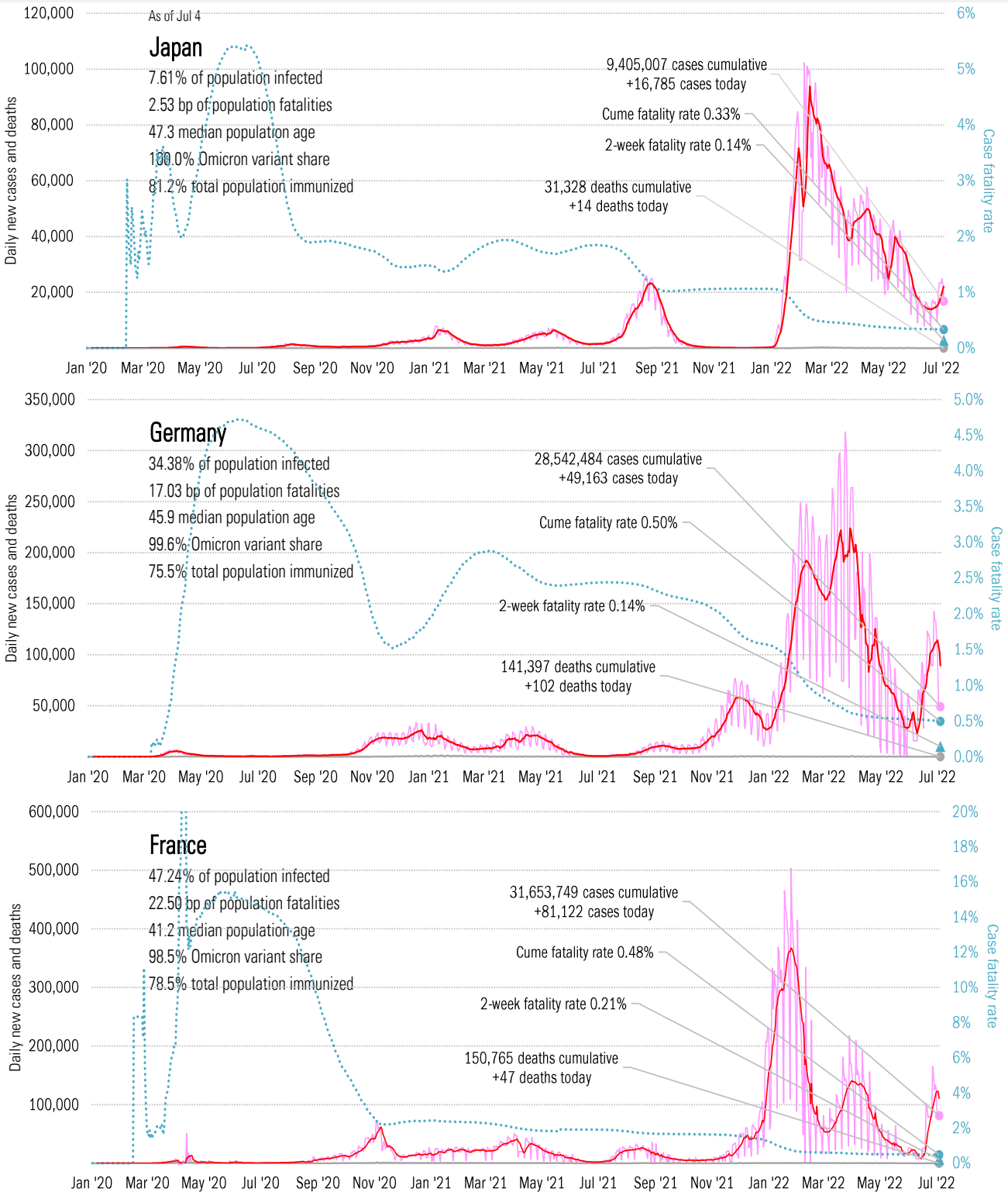




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

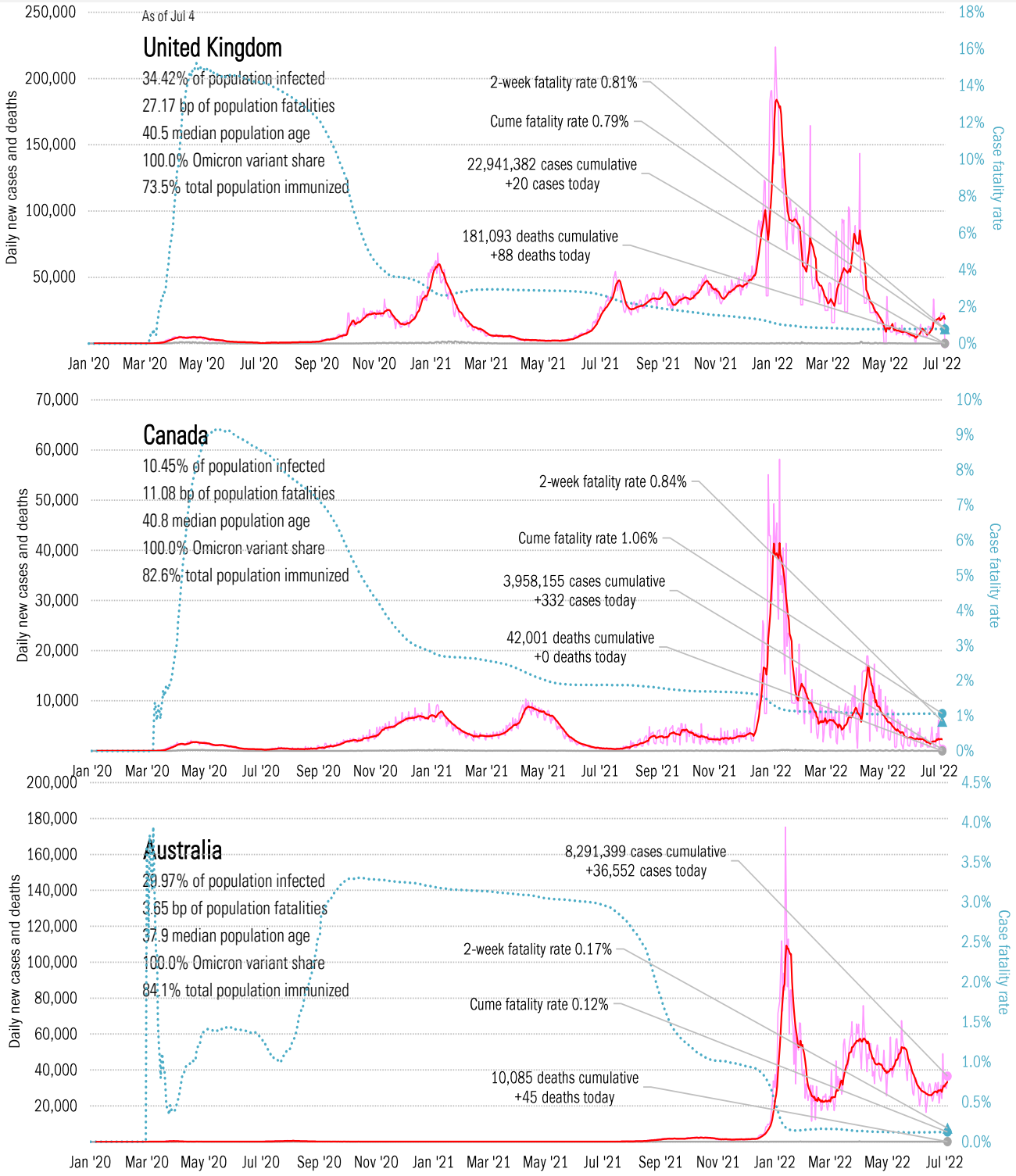
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

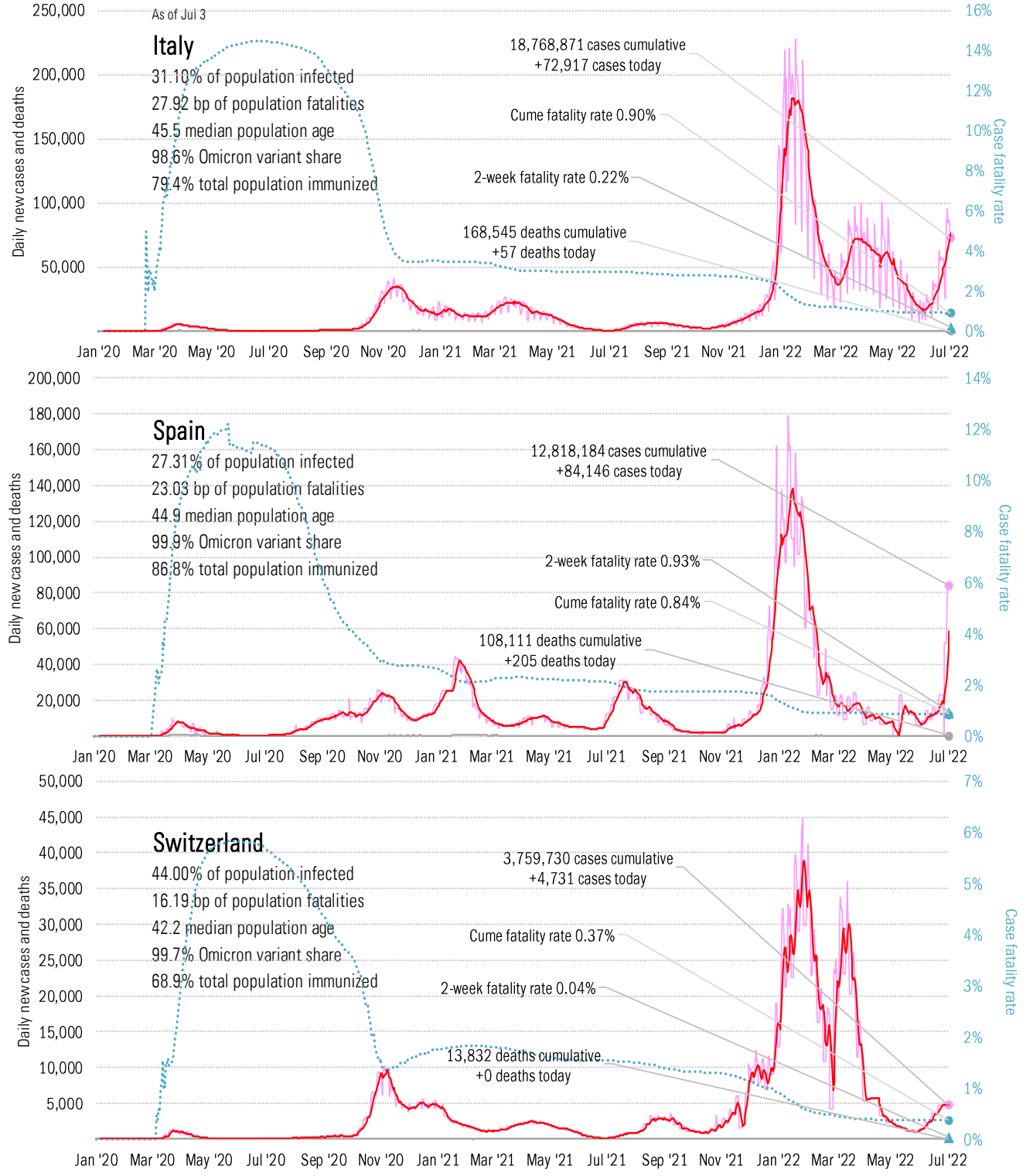
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

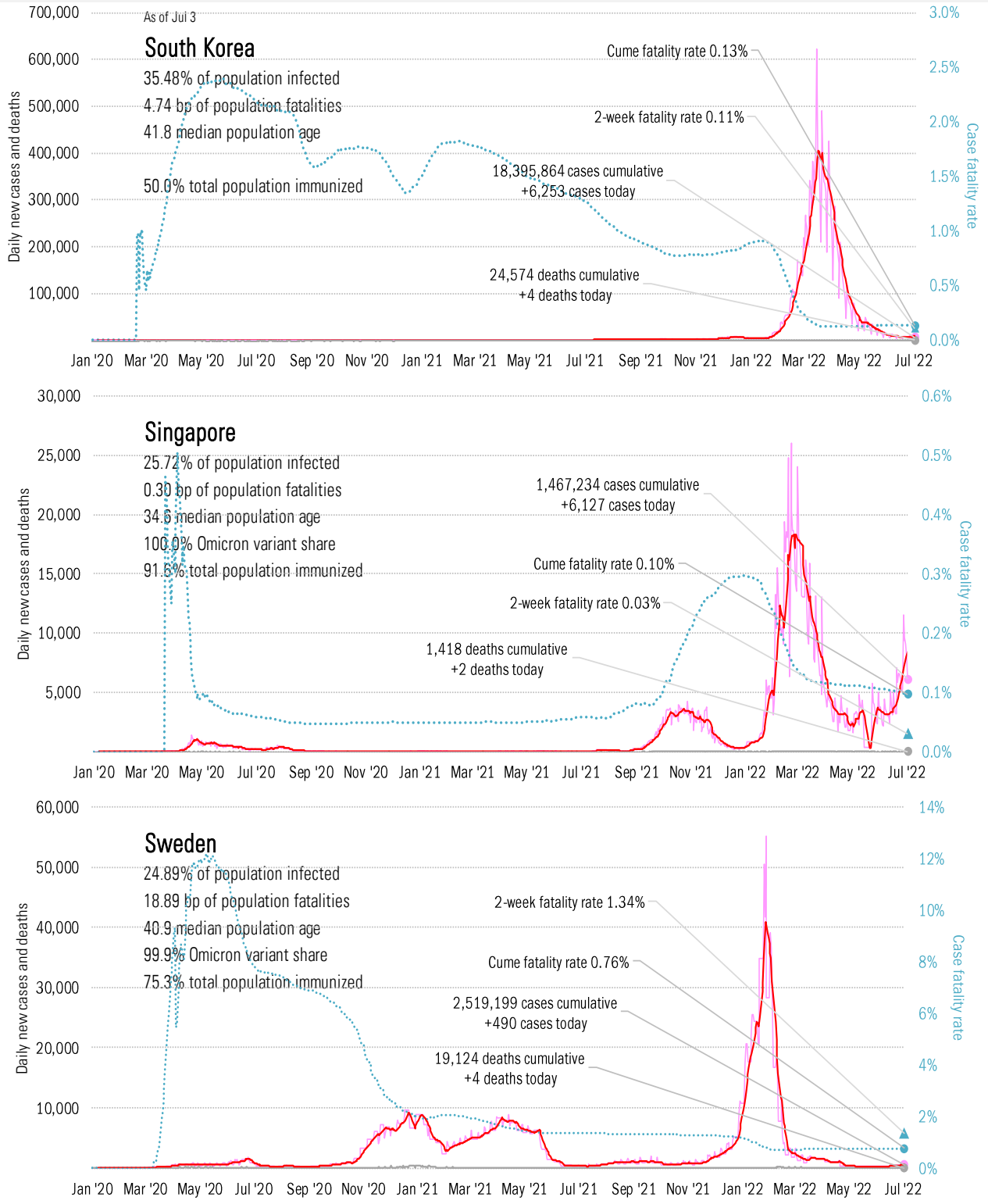
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

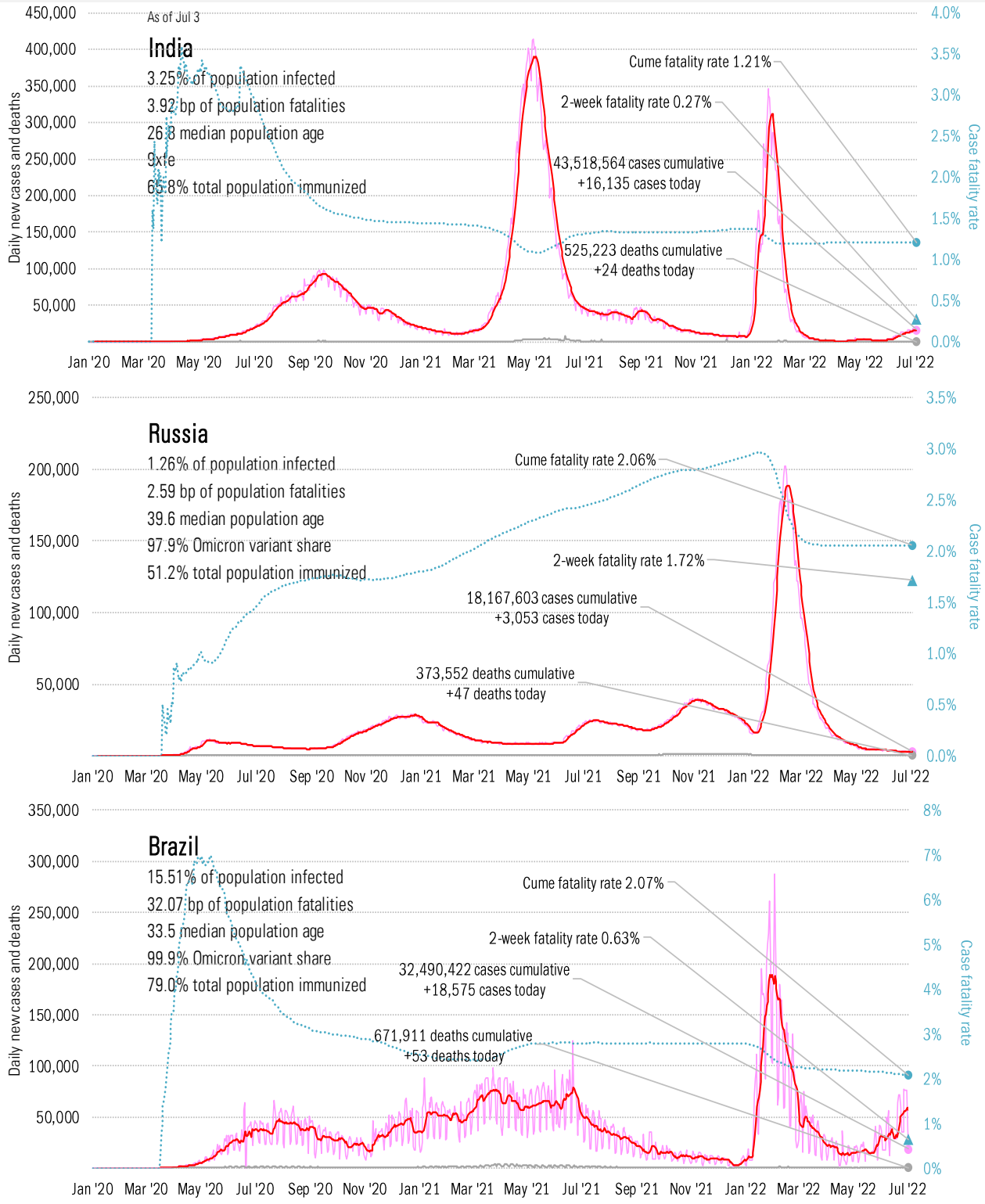
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

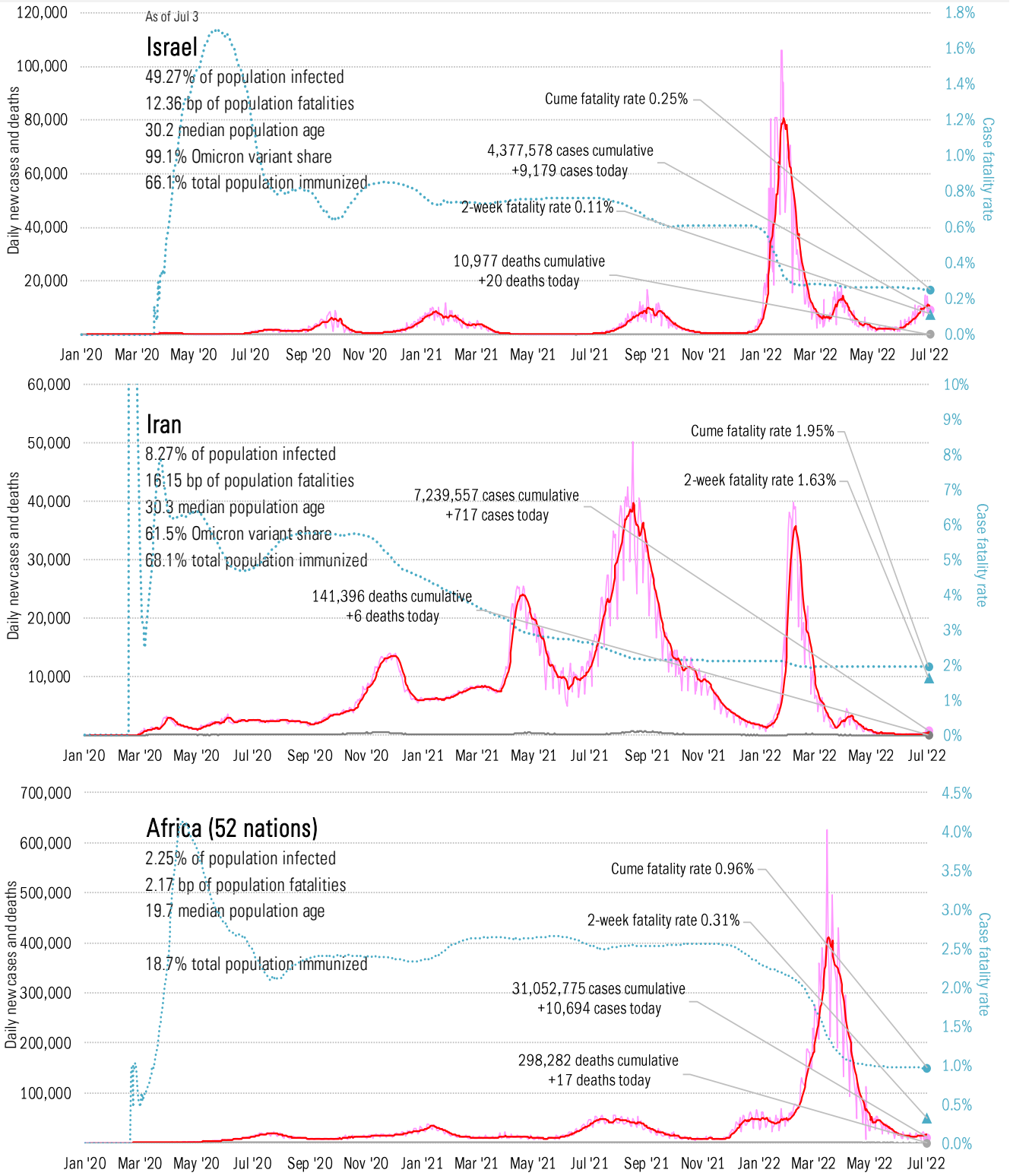
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

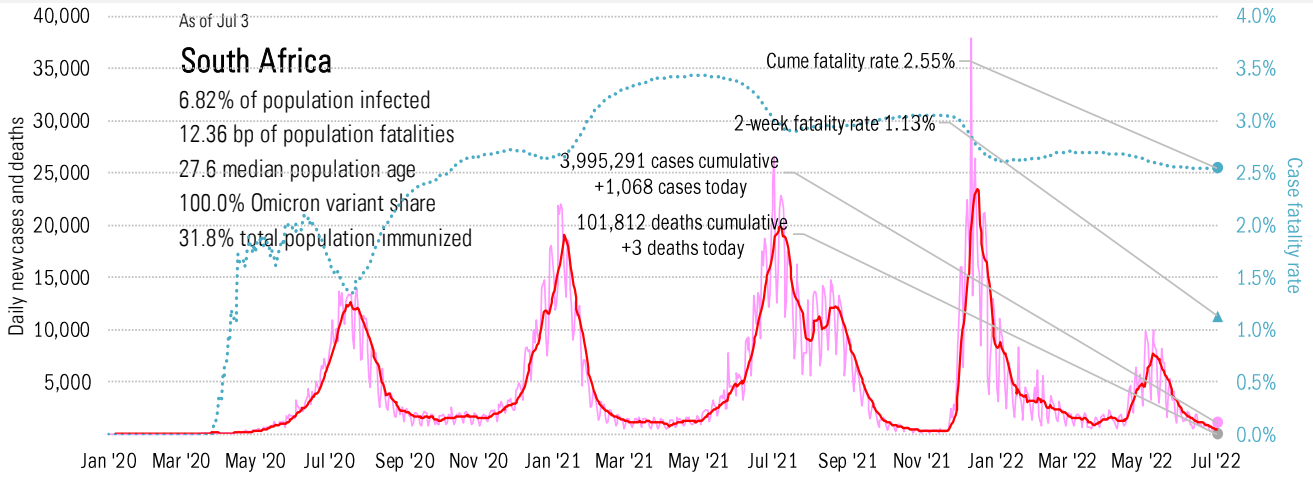
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations