Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

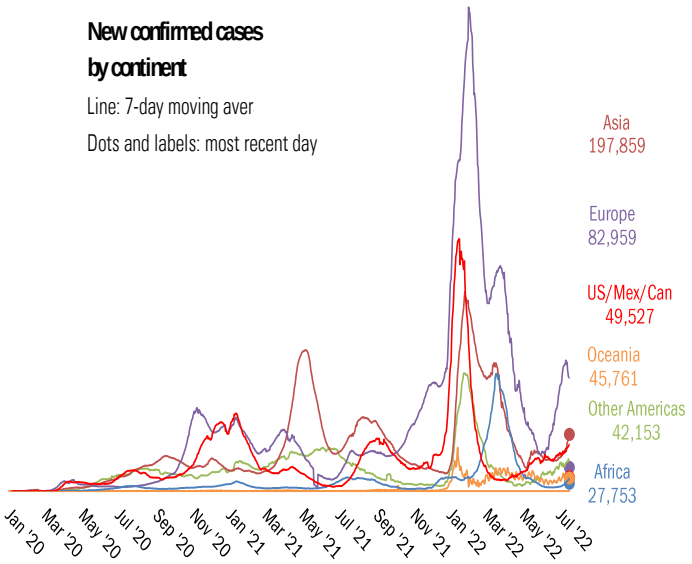
Monday, July 18, 2022

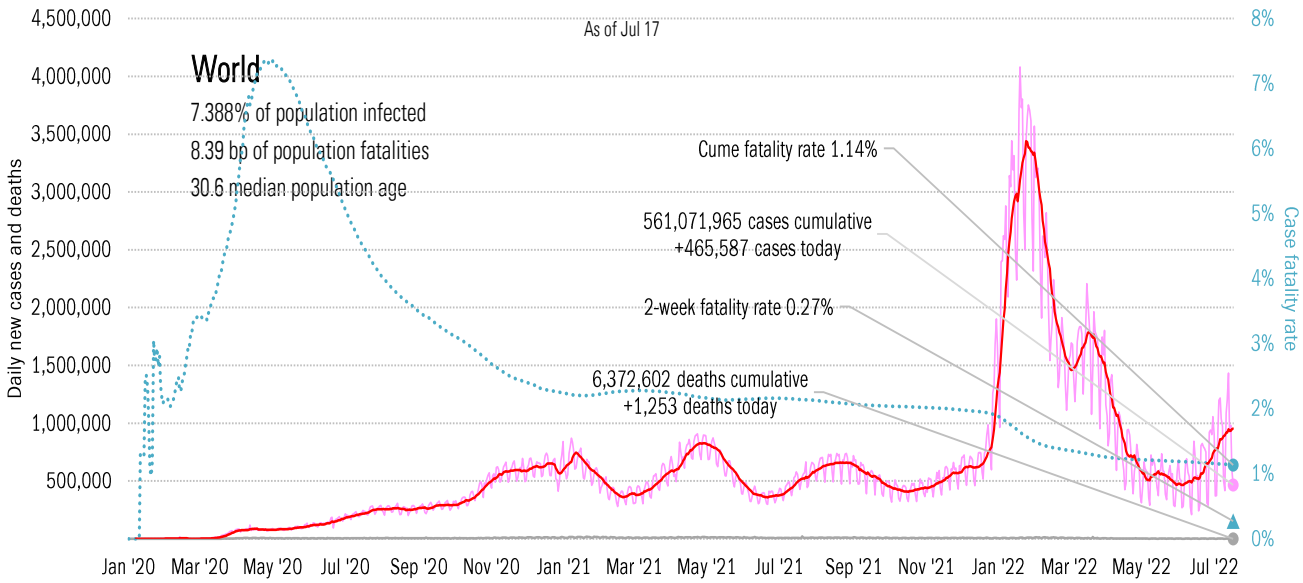
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	105,538	United States	576
Italy	68,996	Italy	79
United States	40,666	Taiwan*	73
Argentina	39,656	Israel	67
Australia	37,787	Argentina	57
Korea, South	26,299	Brazil	55
Taiwan*	24,322	India	51
India	16,935	Chile	47
Brazil	10,852	Russia	45
Israel	10,430	Australia	26
	381,481		1,076
World	465,587	World	1,253
Top ten	82%	Top ten	86%





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

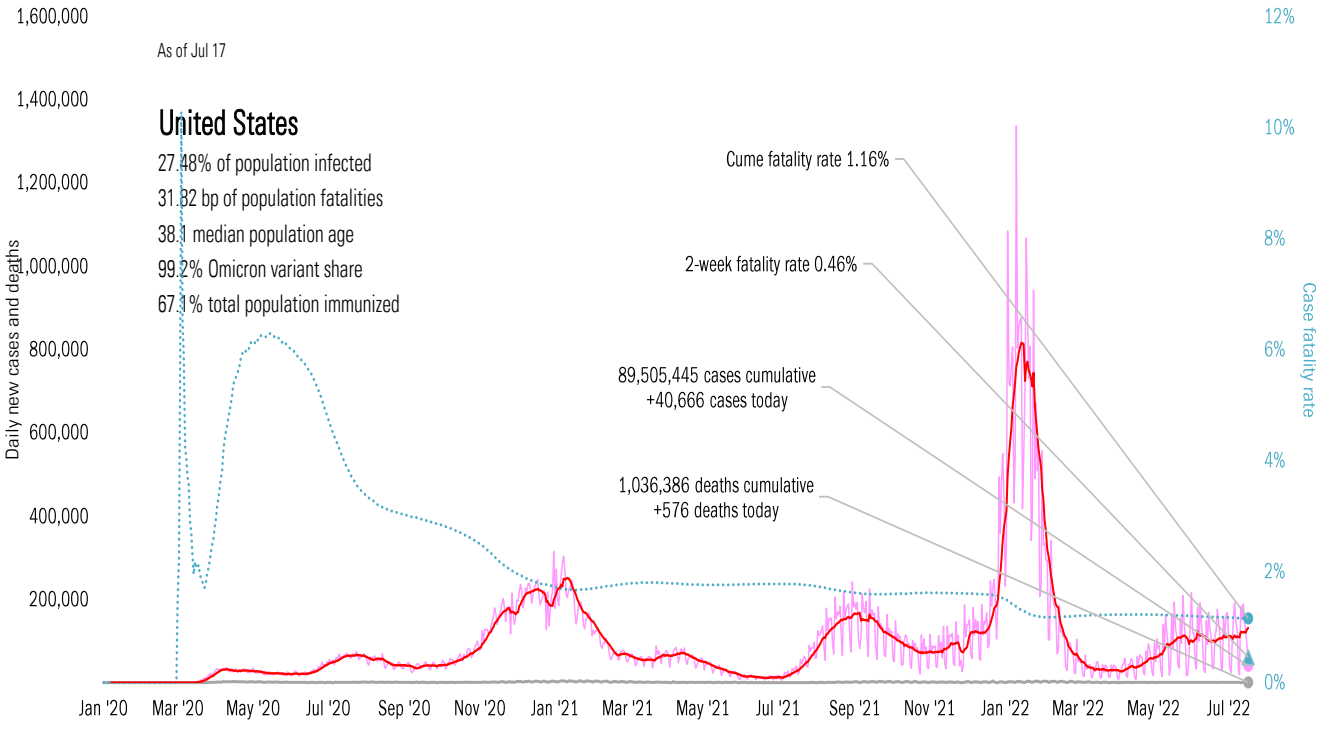
New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
				GA	251	CA	10,436,723	CA	92,903	TX	513,686	RI	91%	RI	90%
				TX	638	TX	7,386,900	TX	88,954	CA	461,825	MA	87%	VT	86%
				KY	135	FL	6,647,585	FL	76,715	FL	455,043	WA	86%	TX	84%
				FL	731	NY	5,721,594	NY	69,934	NY	276,252	MN	84%	AK	83%
NJ	3,133	AK	0	IL	228	IL	3,496,014	PA	45,949	GA	212,979	MO	84%	AL	83%
AZ	2,183	AL	0	CA	791	PA	3,038,076	OH	38,959	OH	202,768	GA	83%	WA	83%
AR	749	AR	0	OH	213	NC	2,919,068	GA	38,821	PA	189,708	WV	83%	MA	83%
CT	145	AS	0	PA	183	OH	2,891,756	IL	38,737	IL	172,073	MD	83%	NC	82%
AK	0	CA	0	AL	136	GA	2,694,160	MI	37,142	MI	151,747	DE	82%	NV	79%
AL	0	CO	0	MI	123	MI	2,636,214	NJ	34,159	KY	137,599	NH	81%	NM	79%
	40,666		87		3,429		47,868,090		562,273		2,773,680				
All states	40,666		576		6,332	All states	89,505,445		1,036,386		5,035,797	All states	70%		67%
Top ten	100%		15%		54%	Top ten	53%		55%		55%	Median	76%		72%

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

Some states not reporting

Five most improved US states

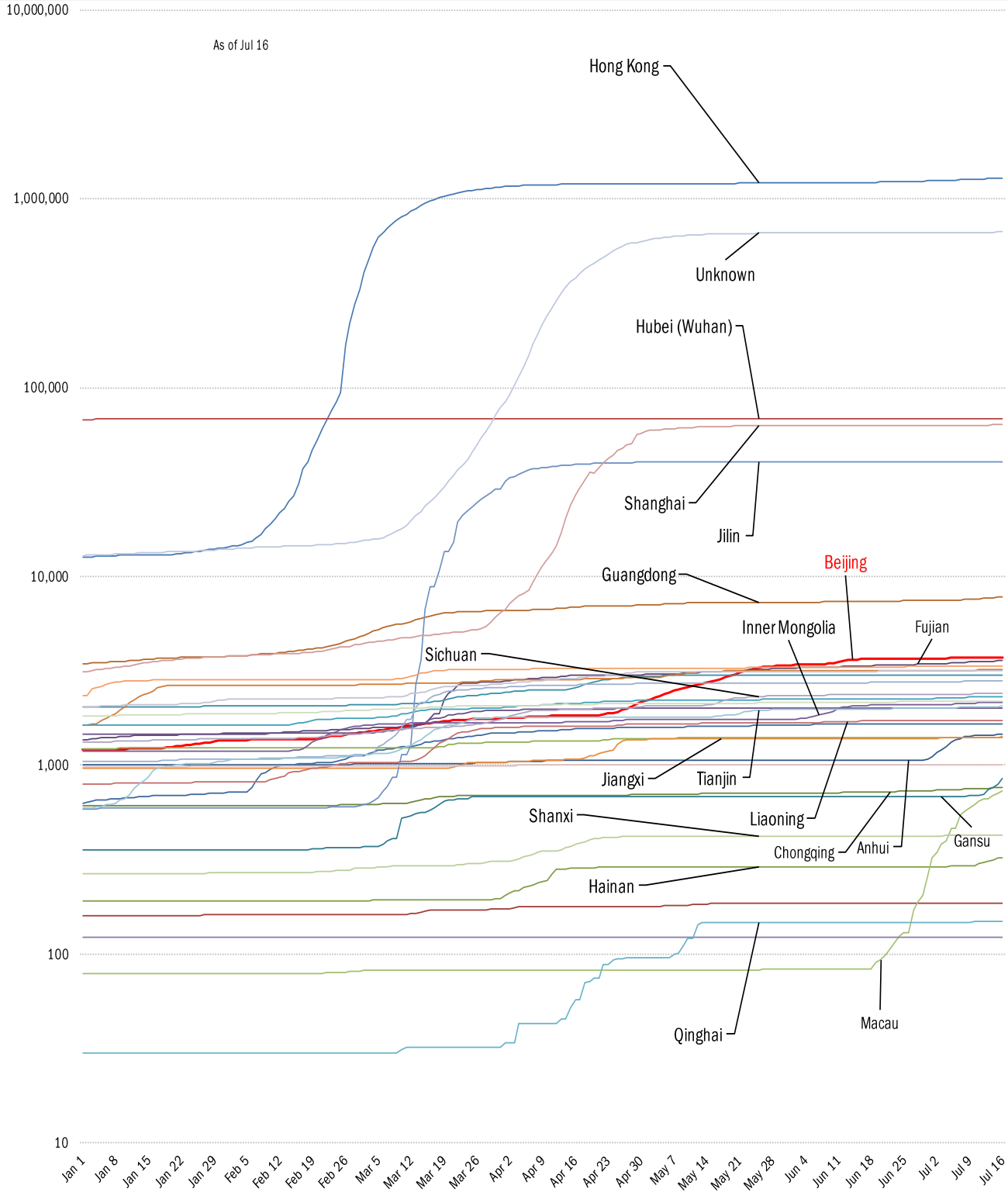
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-39,455	TX	-14	CA	-80	WY	+3156012 bp
NY	-4,511	CO	-10	LA	-49	MO	+1831633 bp
CO	-2,358	NJ	-7	TX	-47	ID	+1545317 bp
TX	-1,886	PR	-7	OK	-34	AZ	+1094142 bp
CT	-685	AR	-4	NY	-23	NV	+970275 bp



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

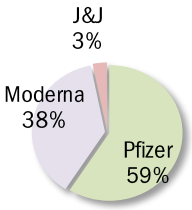
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	614,375,071				+0.243 million
of which boosters	109,001,813				+0.059 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	268,744,531	80%	228,983,309	69%	+0.035 million
Age 12 to 17	17,986,428	71%	15,385,626	61%	+0.003 million
Age 18 to 64	180,059,671	89%	152,815,245	75%	+0.019 million
Age 65 and over	59,481,476	100%	52,022,449	95%	+0.007 million

Immunity	Full	Partial
US	67.1%	78.5%
UK	74.7%	79.7%
France	78.5%	80.8%
Spain	85.5%	86.9%
Germany	76.0%	77.6%
Italy	81.0%	85.8%
Australia	83.7%	86.3%
Israel	66.2%	72.3%
Canada	82.5%	85.9%
Japan	82.2%	83.3%
Africa	20.3%	25.8%
India	65.7%	72.4%
Brazil	79.1%	86.3%
China	88.5%	90.9%

Global data differs due to sources, timing



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

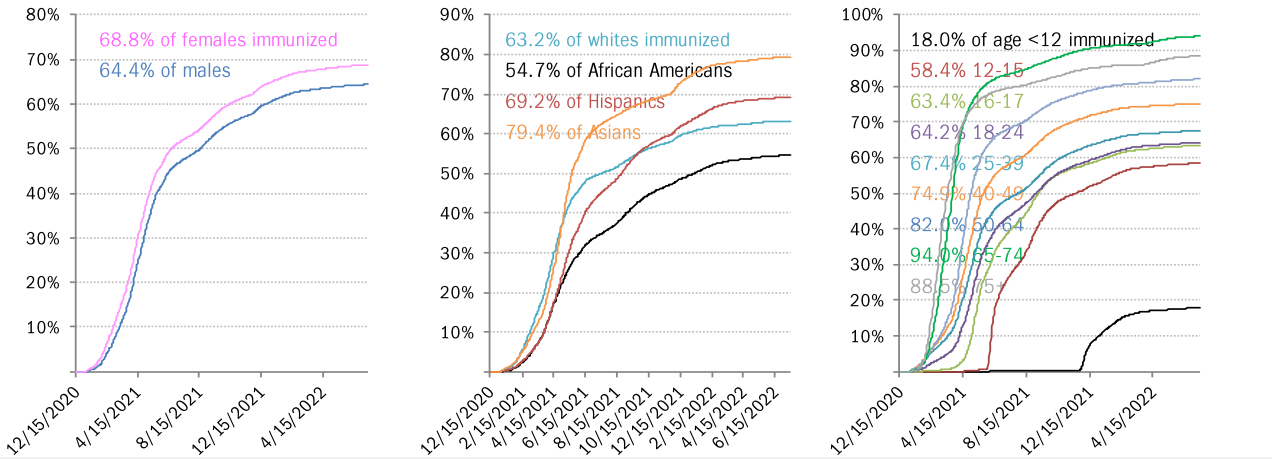
"Immunity" = two doses

Best
Middle
Worst

As of Jul 14

					WI					ME
					72.6%					92.3%
					66.2%					80.7%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
82.0%	62.4%	66.0%	66.4%	76.0%	76.5%	67.6%		91.3%	95.0%	89.8%
73.1%	55.9%	57.4%	56.2%	69.8%	69.2%	60.7%		77.9%	82.1%	71.7%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
78.8%	76.3%	58.8%	78.0%	68.6%	62.7%	63.9%	86.4%	91.6%	95.0%	
70.3%	61.5%	51.5%	62.8%	62.5%	56.5%	58.9%	69.8%	76.6%	80.1%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
83.3%	72.9%	80.5%	71.1%	67.0%	66.9%	65.7%	86.9%	87.9%	95.0%	95.0%
73.0%	64.9%	71.0%	64.2%	56.8%	58.0%	58.2%	73.9%	76.6%	80.2%	84.0%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	74.5%	89.4%	73.4%	67.6%	62.8%	86.2%	68.6%	95.0%	84.5%	
	62.5%	72.1%	62.7%	55.1%	55.0%	62.7%	57.8%	76.6%	70.3%	
			OK	LA	MS	AL	GA			
			72.0%	61.7%	60.3%	63.4%	66.2%			
			58.1%	54.0%	52.5%	51.7%	55.5%			
HI			TX					FL		PR
88.8%			74.6%					80.3%		95.0%
79.3%			62.4%					67.7%		83.7%

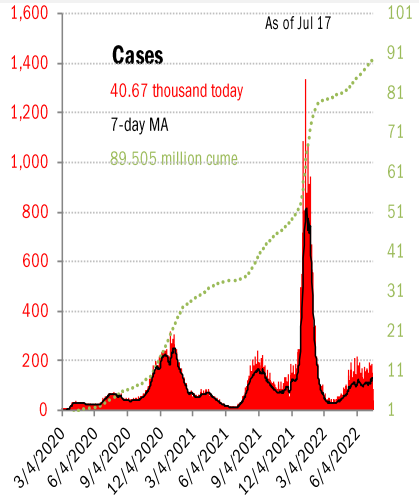
The demographics of US vaccination

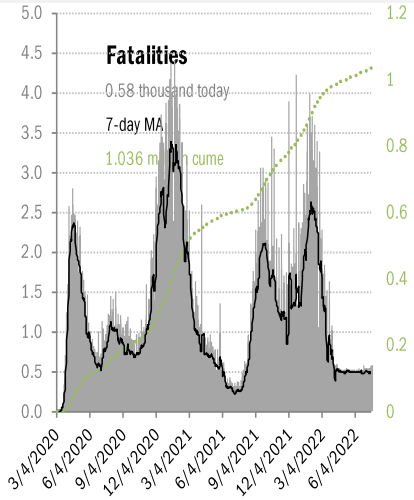


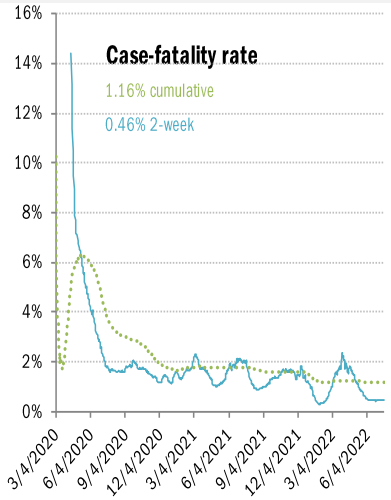
Source: CDC, CDC, Our World in Data, TrendMacro calculations

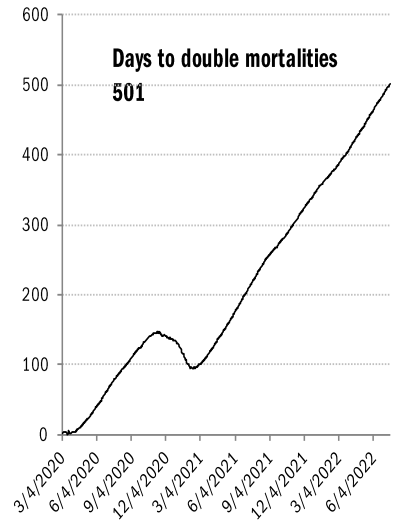
US deep-dive

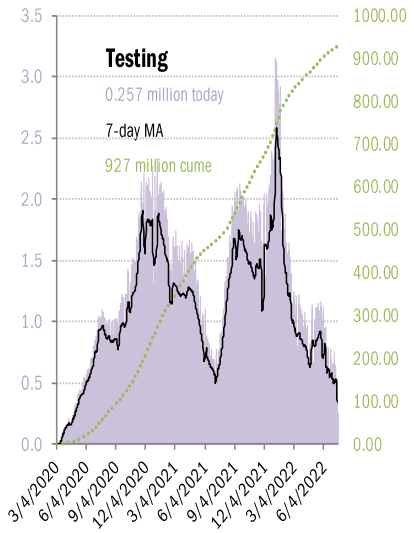
National and state-by-state data do not line up because of different sources

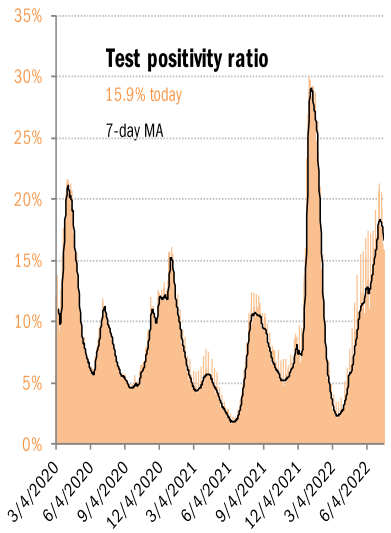


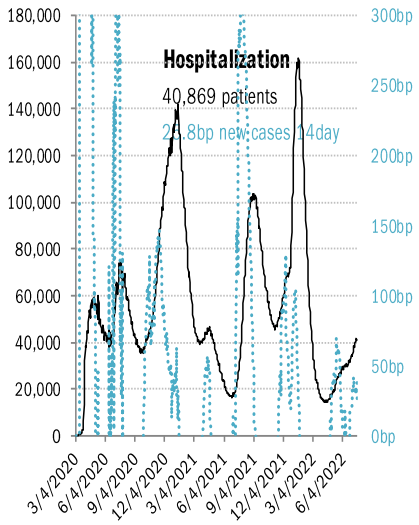


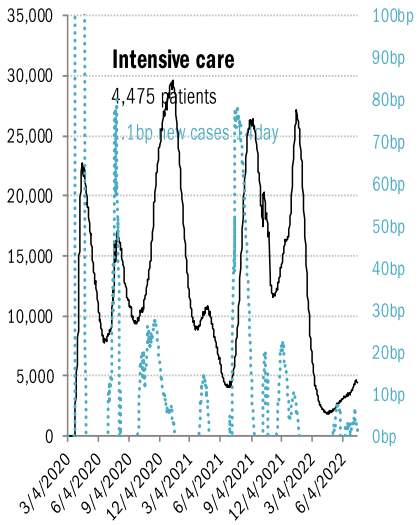


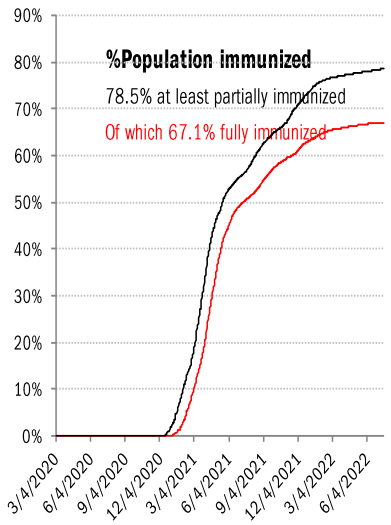












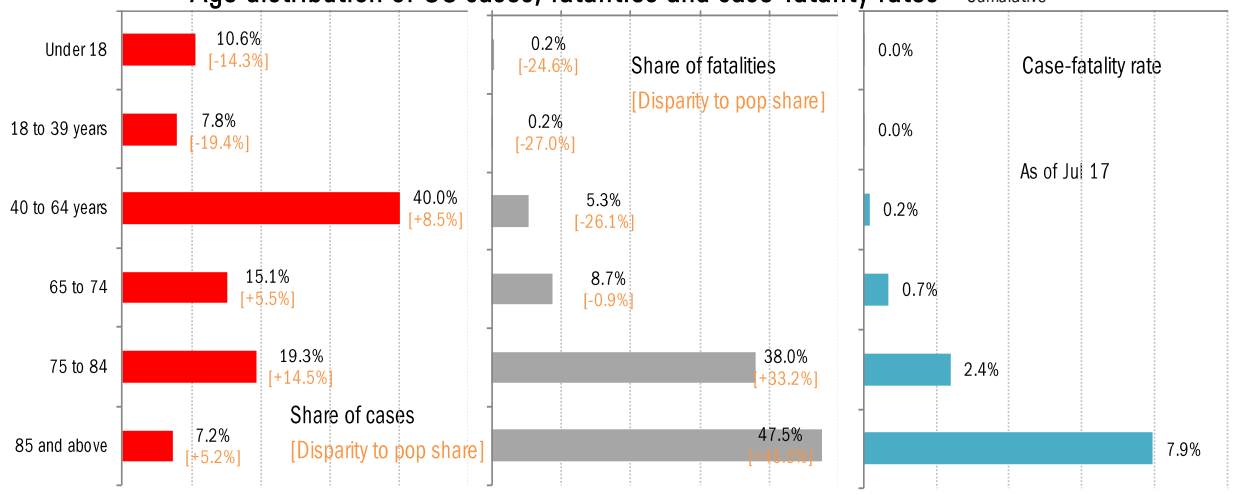
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

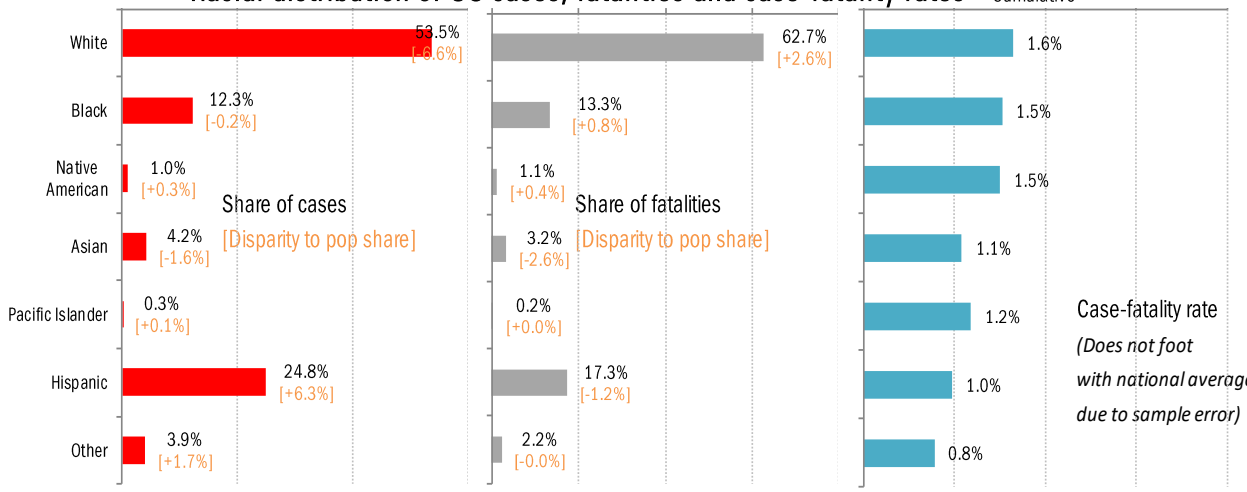
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



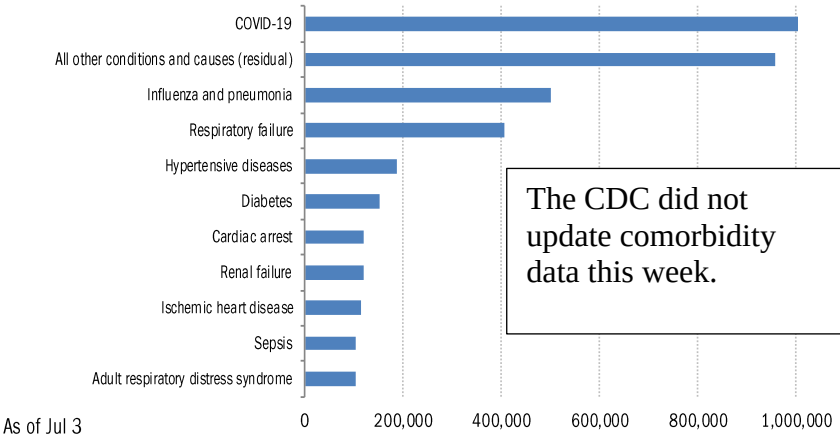
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jul 3

The CDC did not update comorbidity data this week.

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

Bat Virus Studies Raise Questions About Laboratory Tinkering https://trendmacro.com/node/15233/edit?destination=recommended-reading
Carl Zimmer
New York Times
July 15, 2022

How we can win this https://trendmacro.com/node/15231/edit?destination=recommended-reading
Steve Kirsch
Steve Kirsch's Newsletter
July 17, 2022

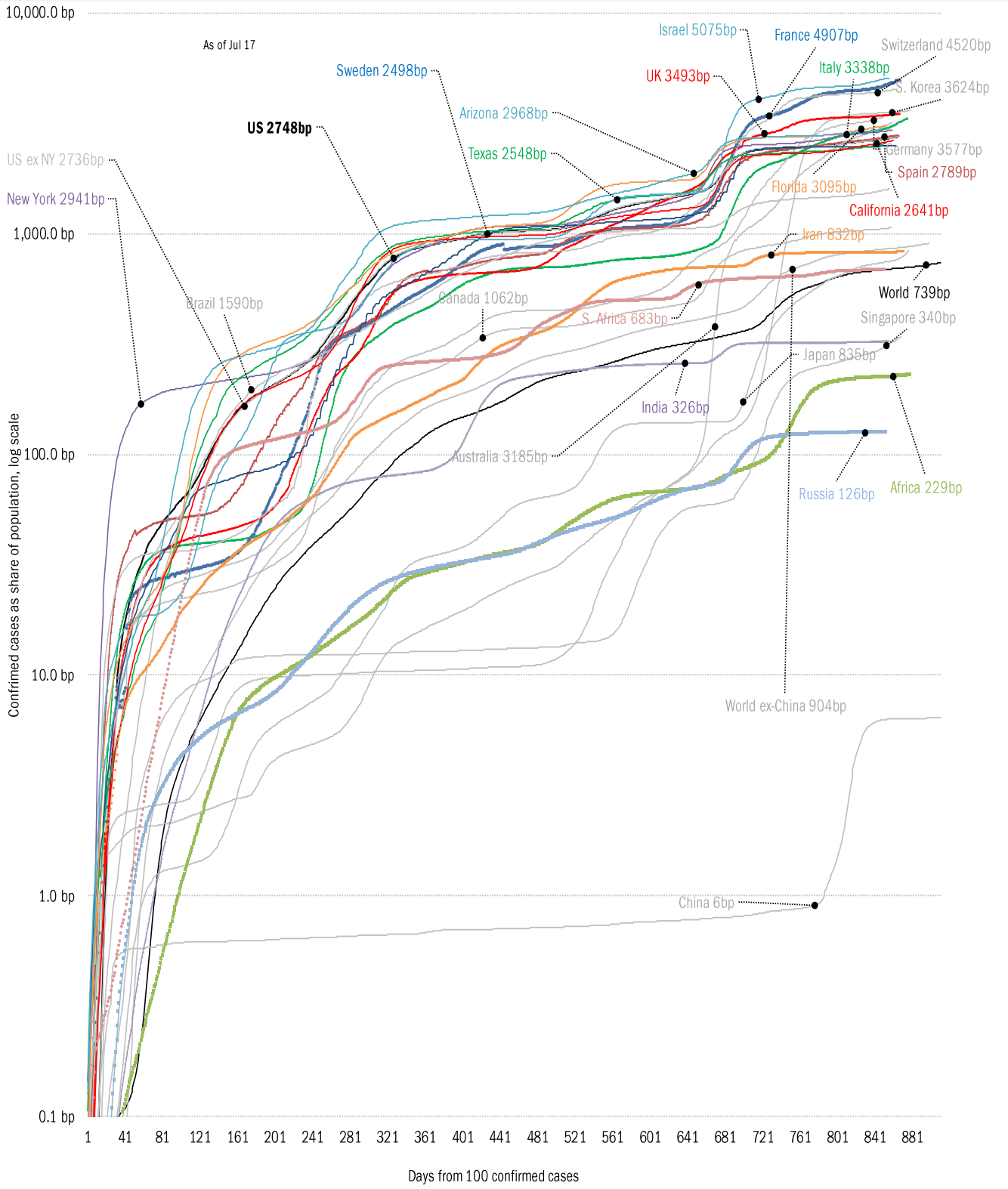
Largest Study to Date Shows How Covid Vaccines Affect Periods https://trendmacro.com/node/15232/edit?destination=recommended-reading
Knvul Sheikh
New York Times
July 15, 2022

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

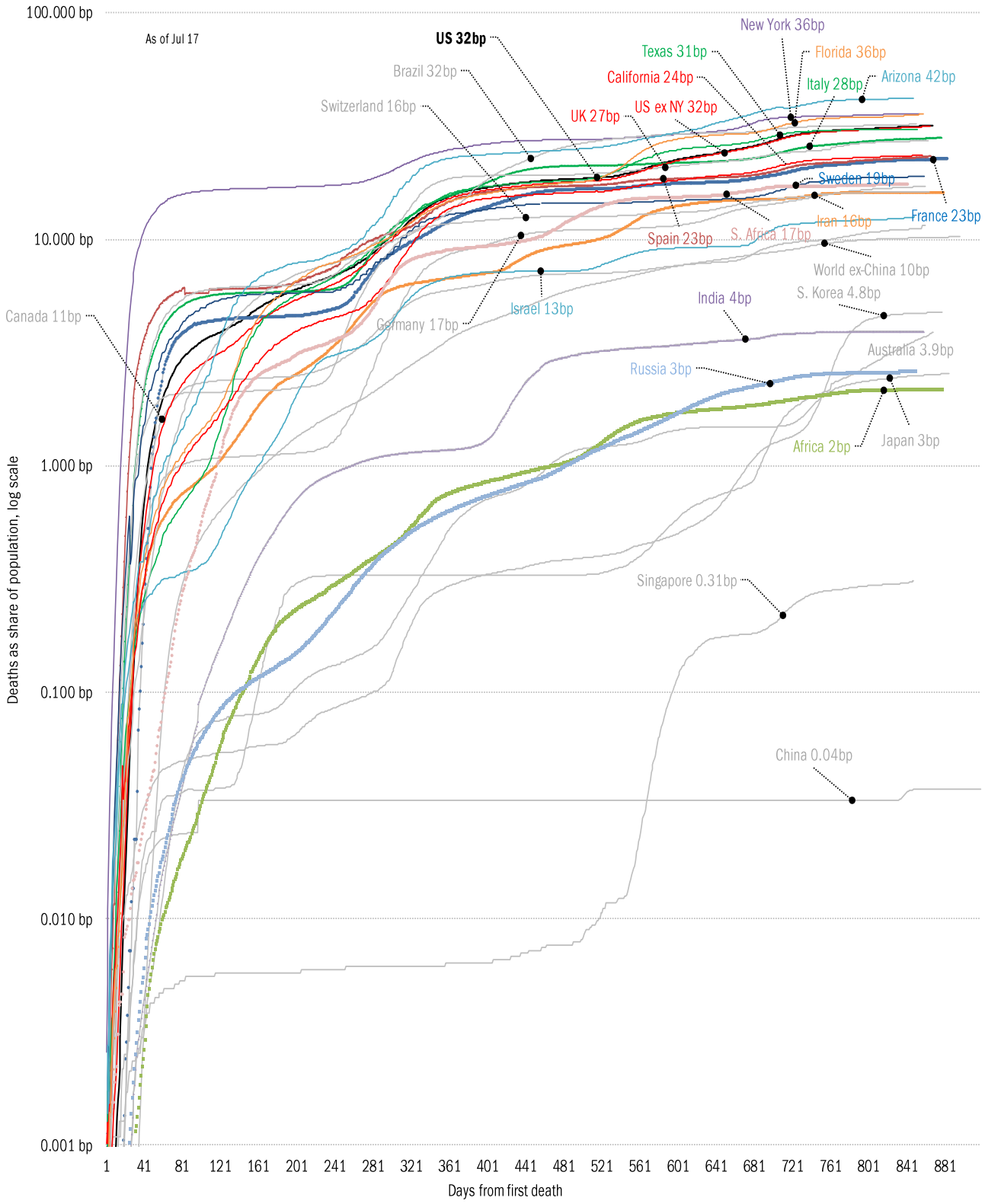
Share of infected population from first day with 100 confirmed cases, log scale



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

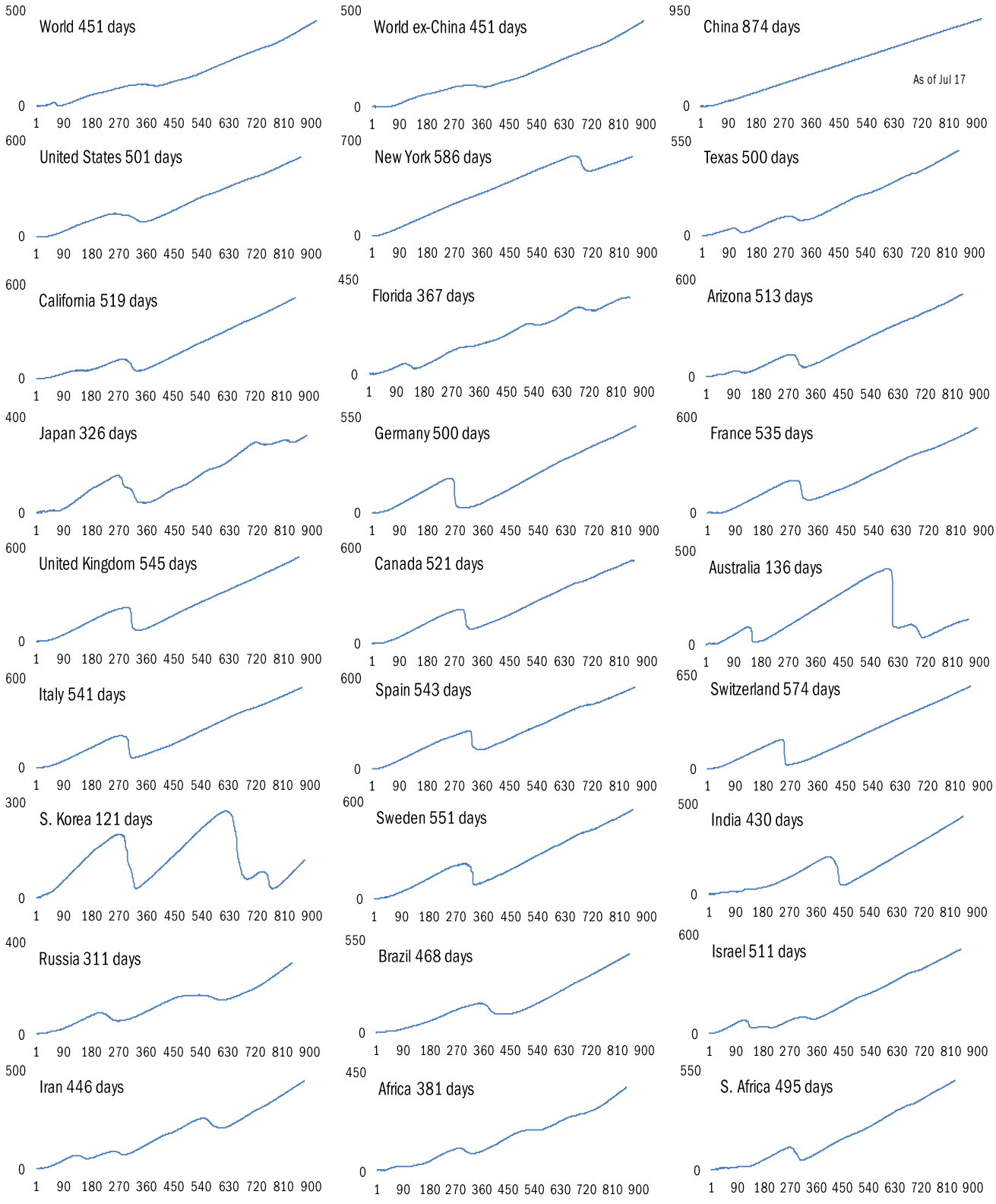


Source: Johns Hopkins, TrendMacro calculations

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

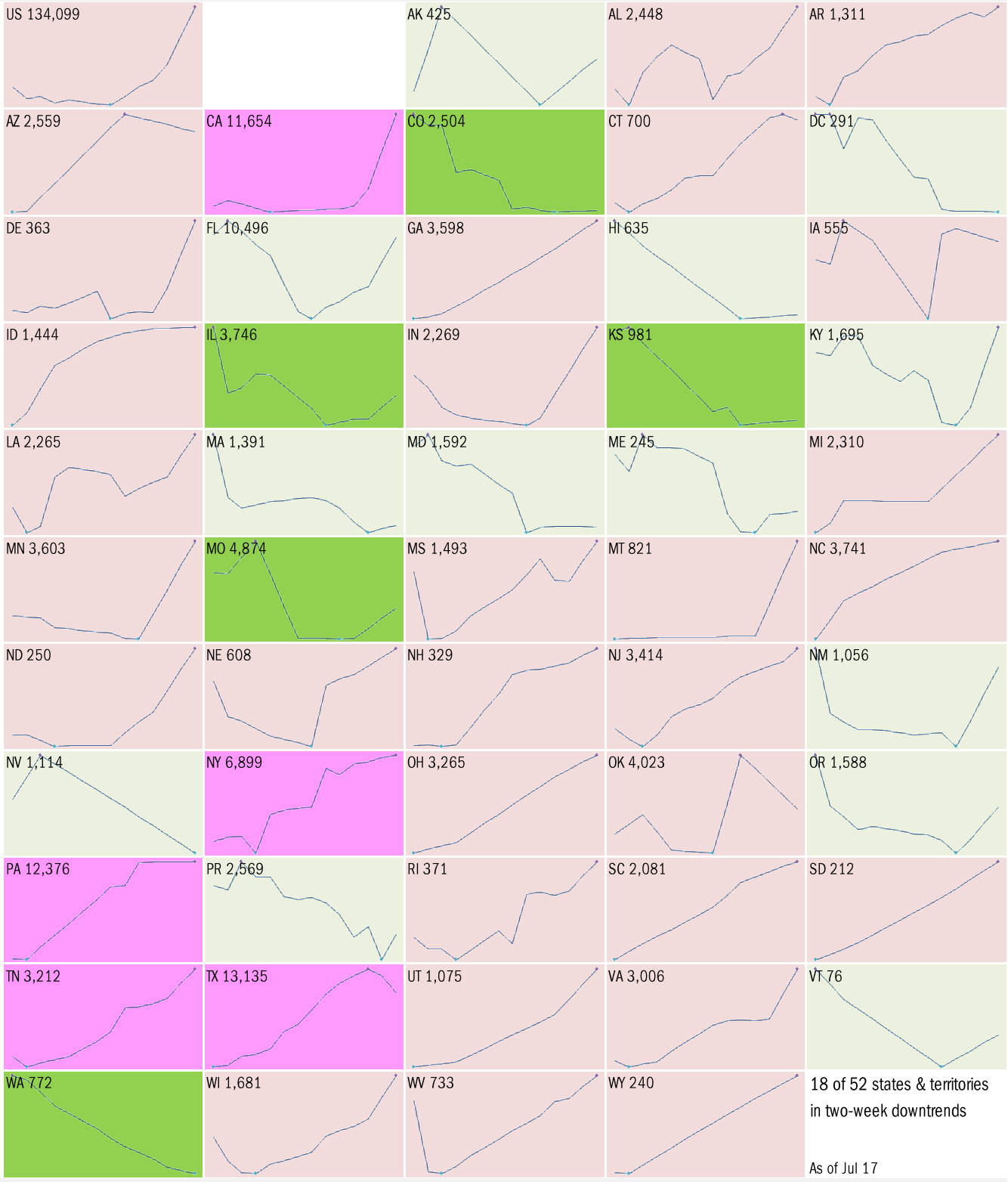


Source: Johns Hopkins, TrendMacro calculations

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

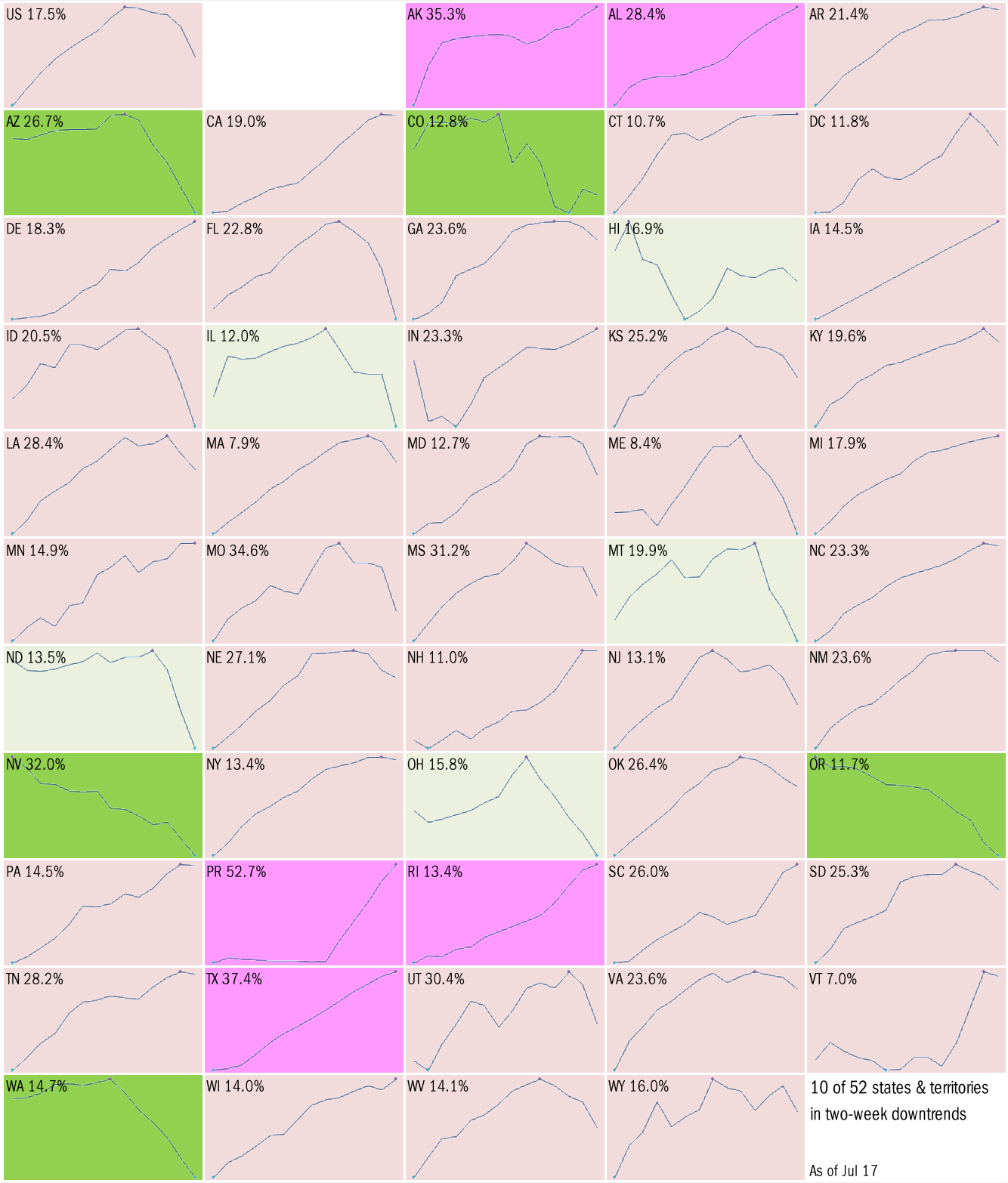


Source: Johns Hopkins, TrendMacro calculations

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

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

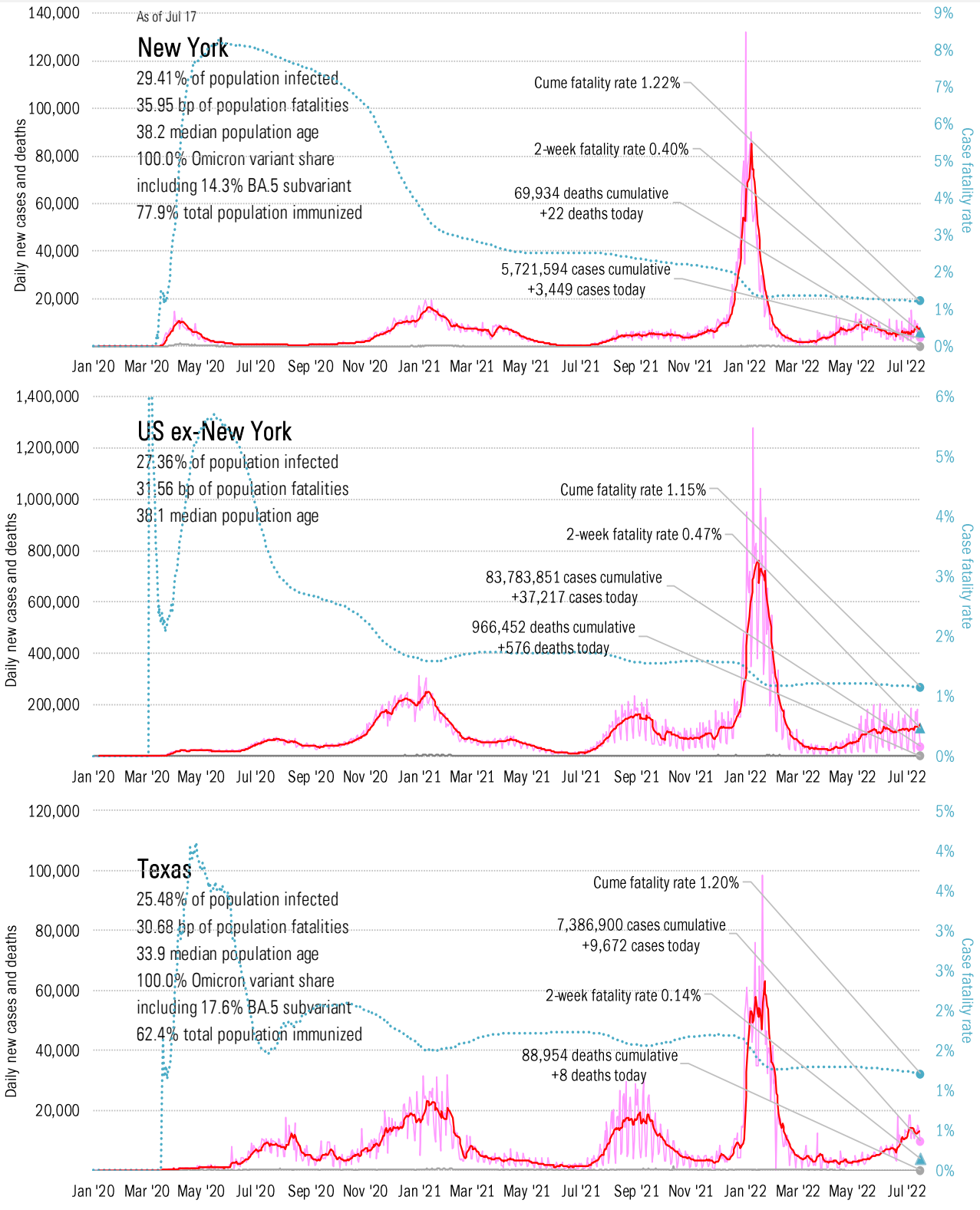
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

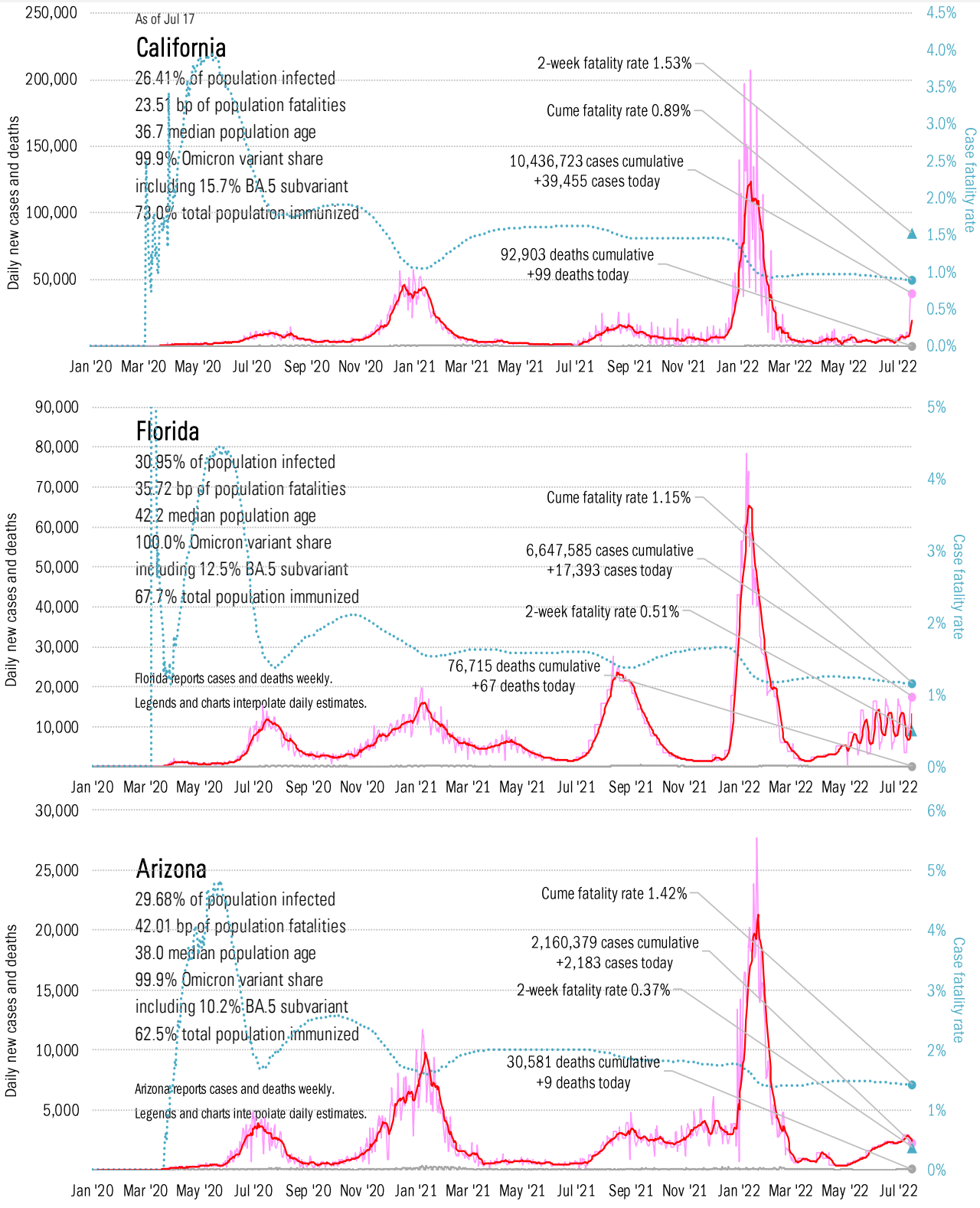
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

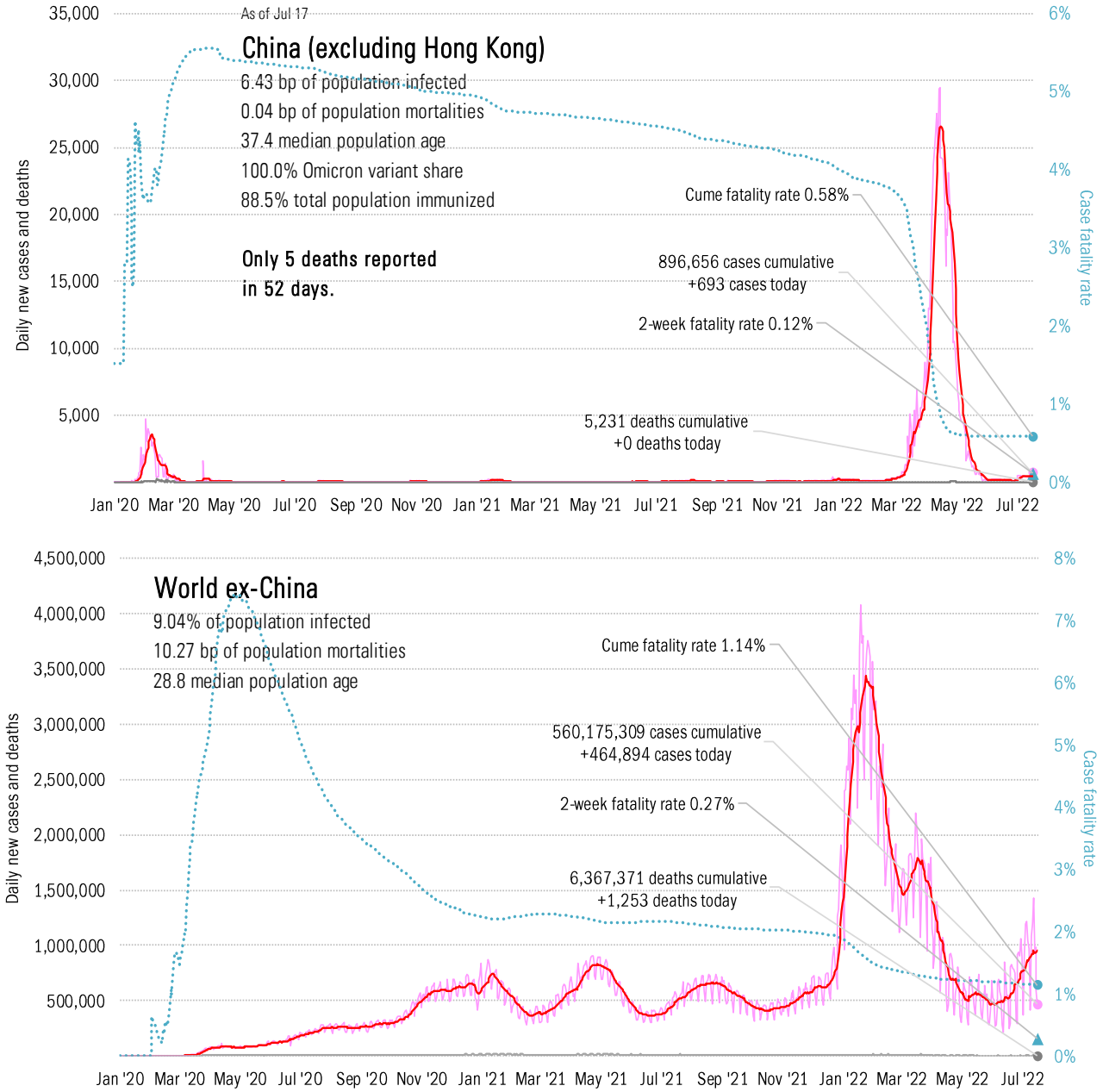
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

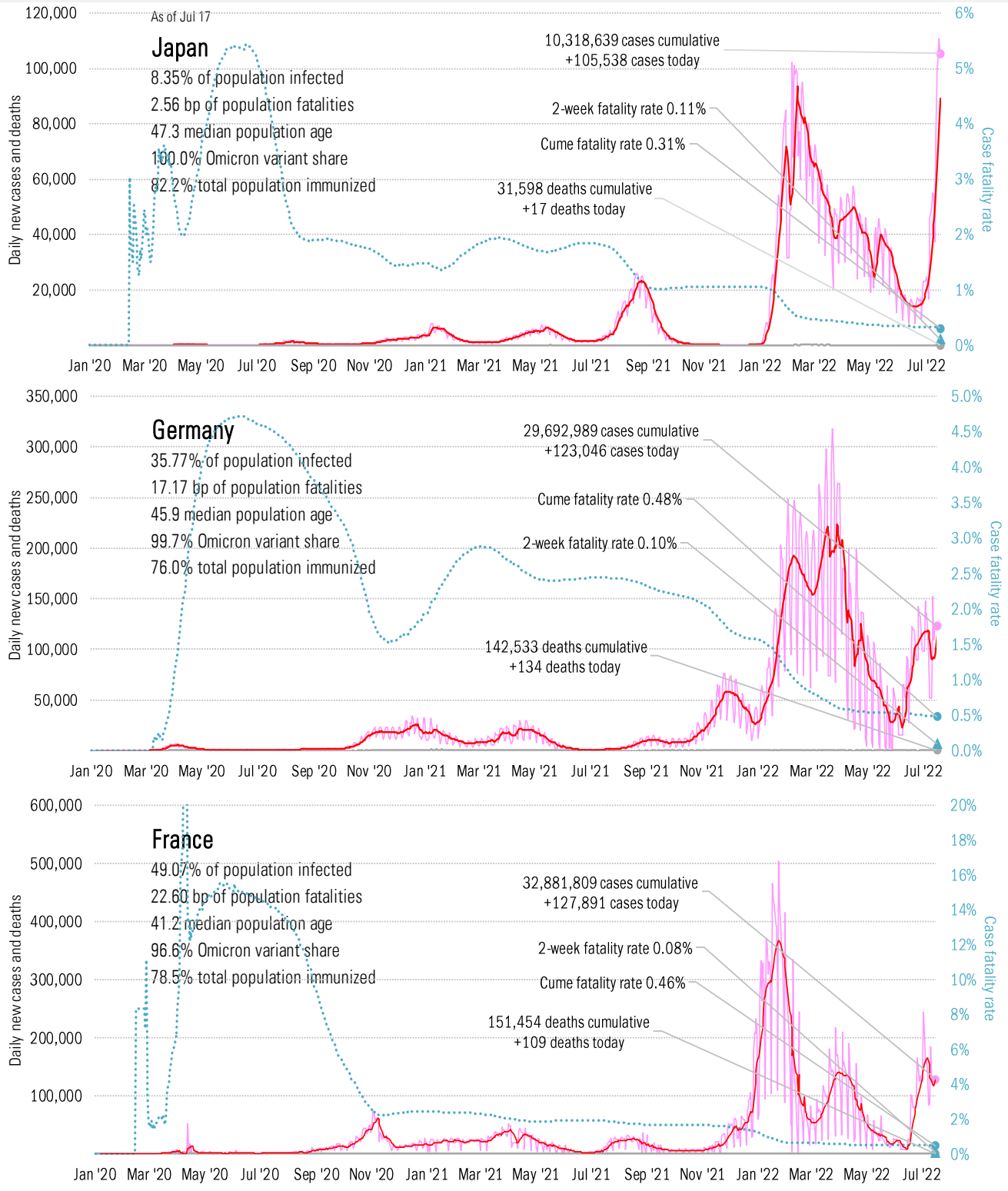
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

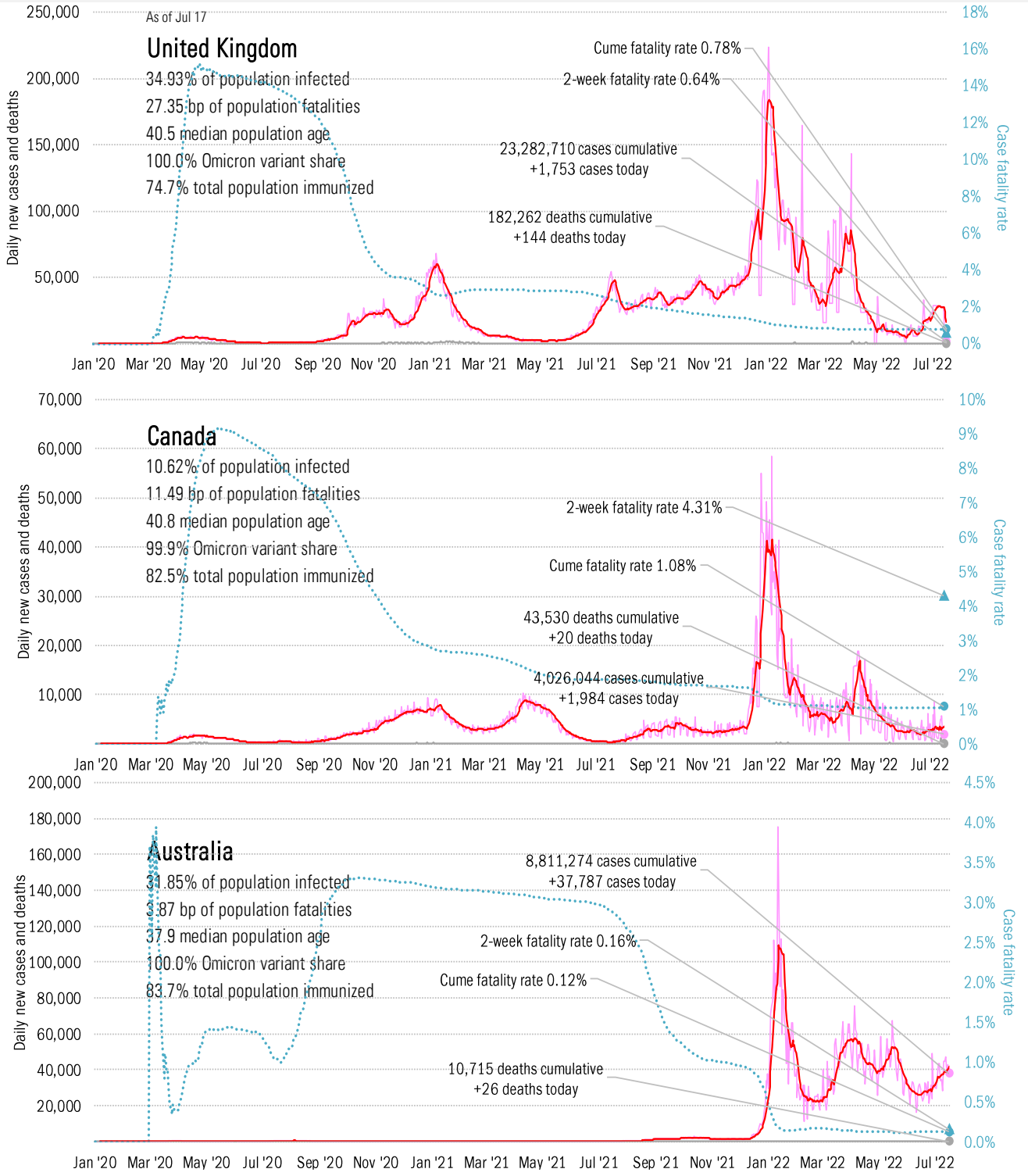
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

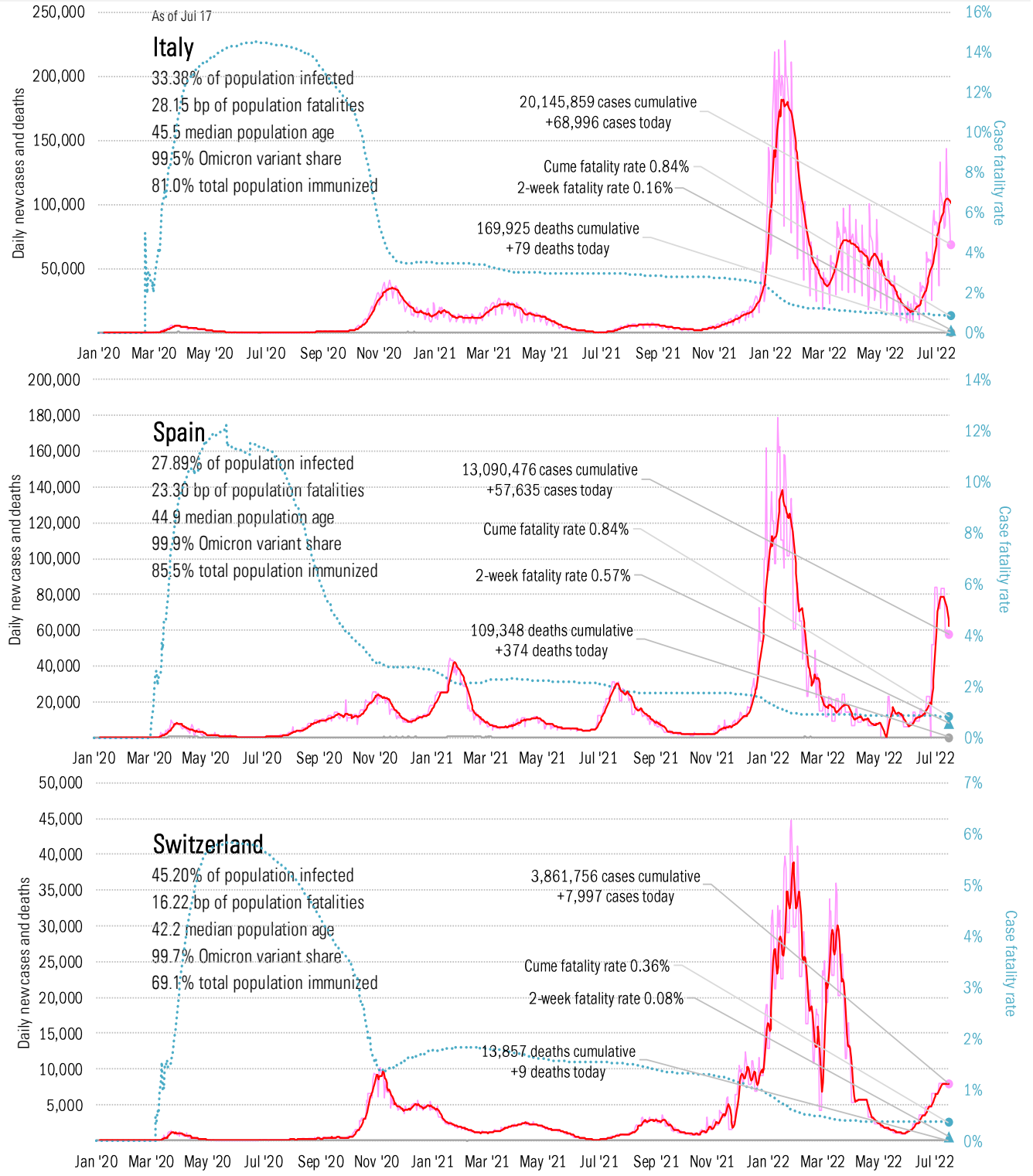
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

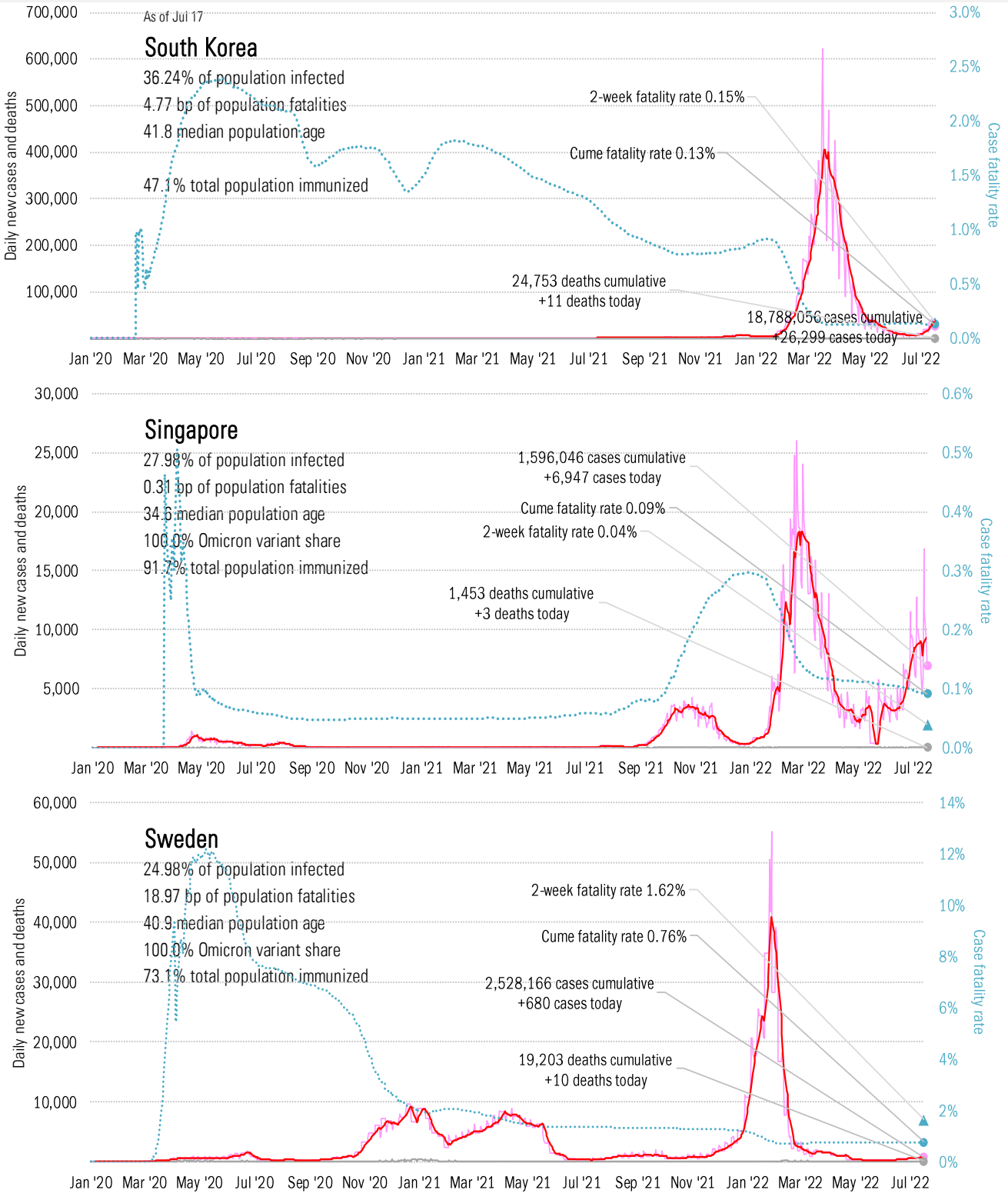
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

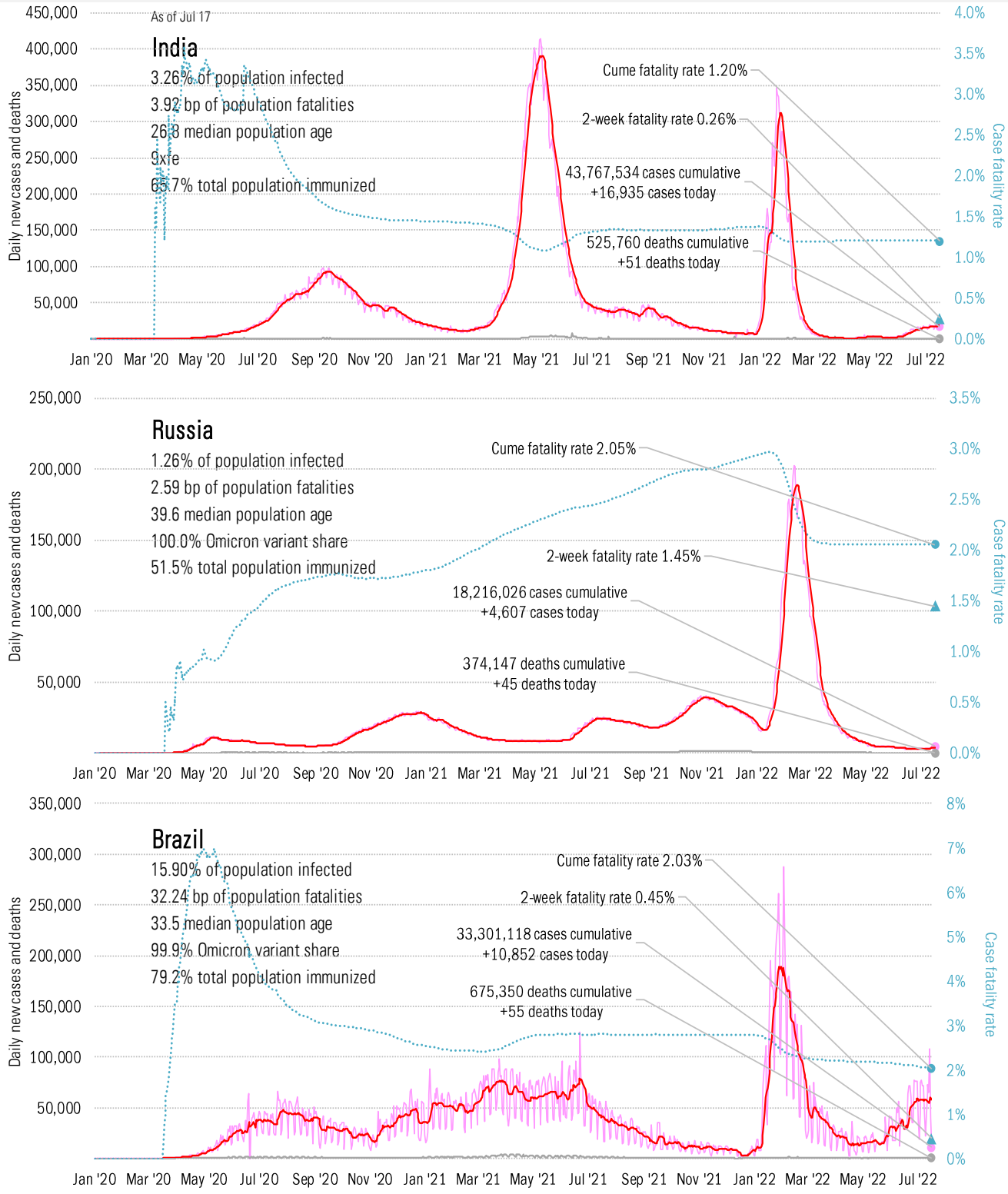
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

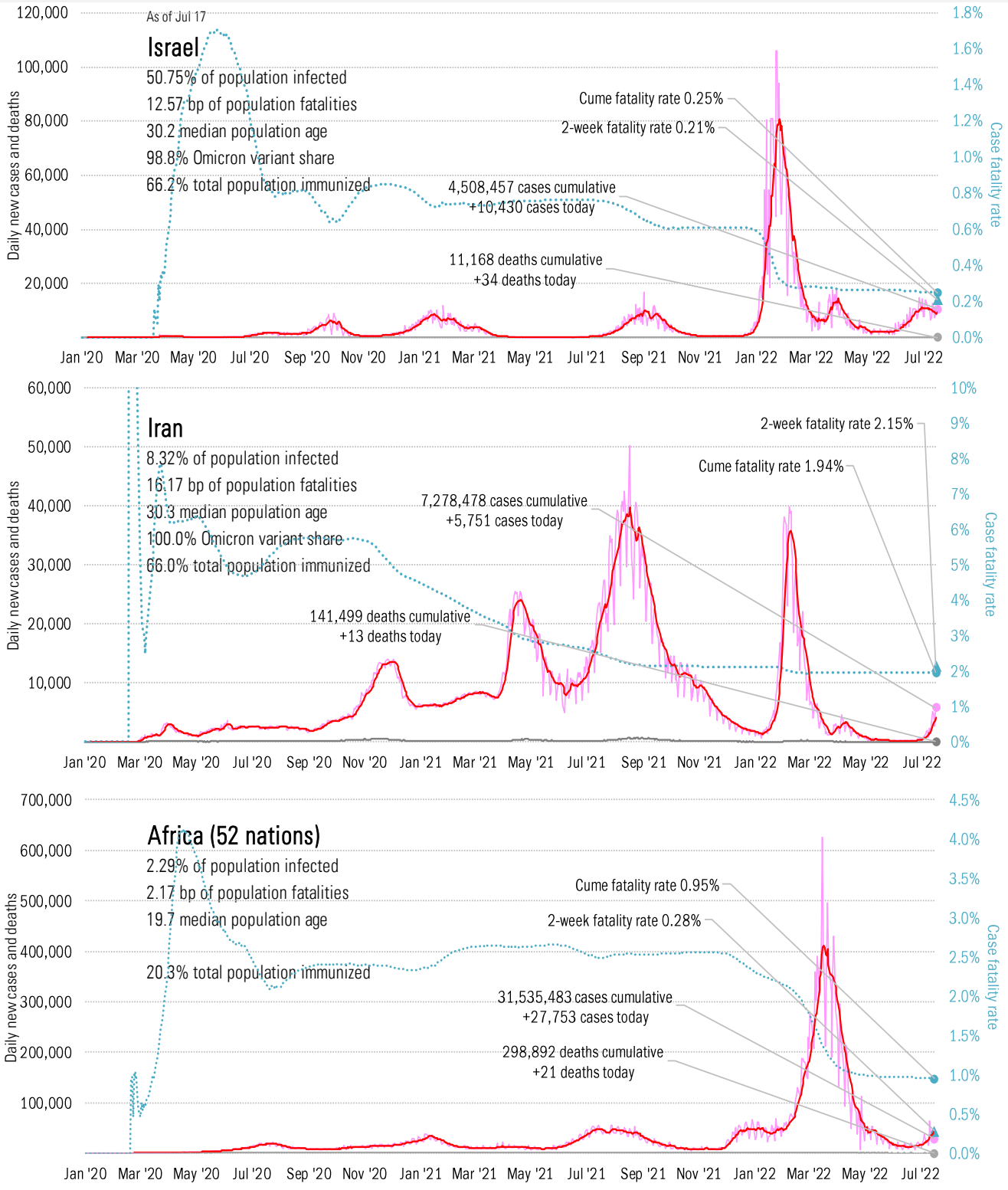
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

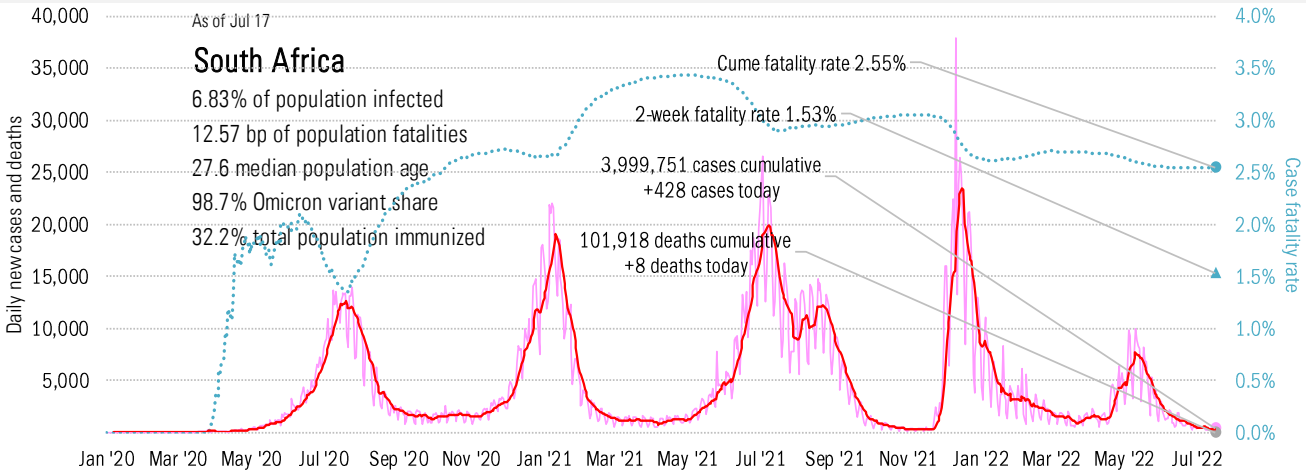
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations