Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

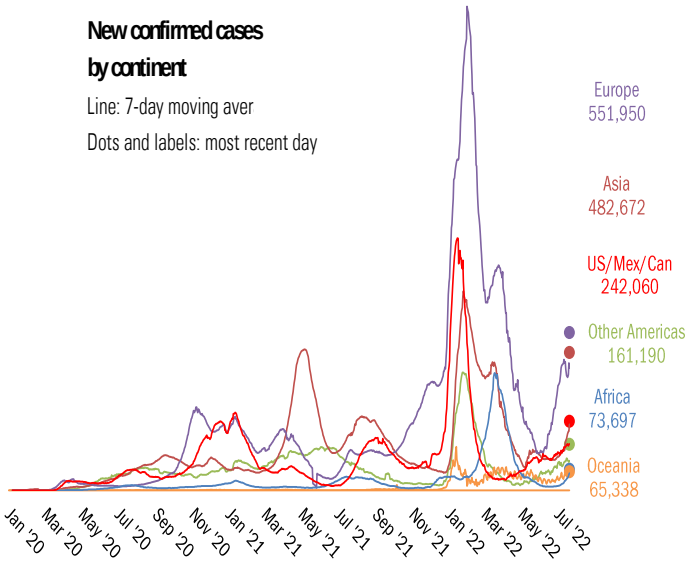
Thursday, July 21, 2022

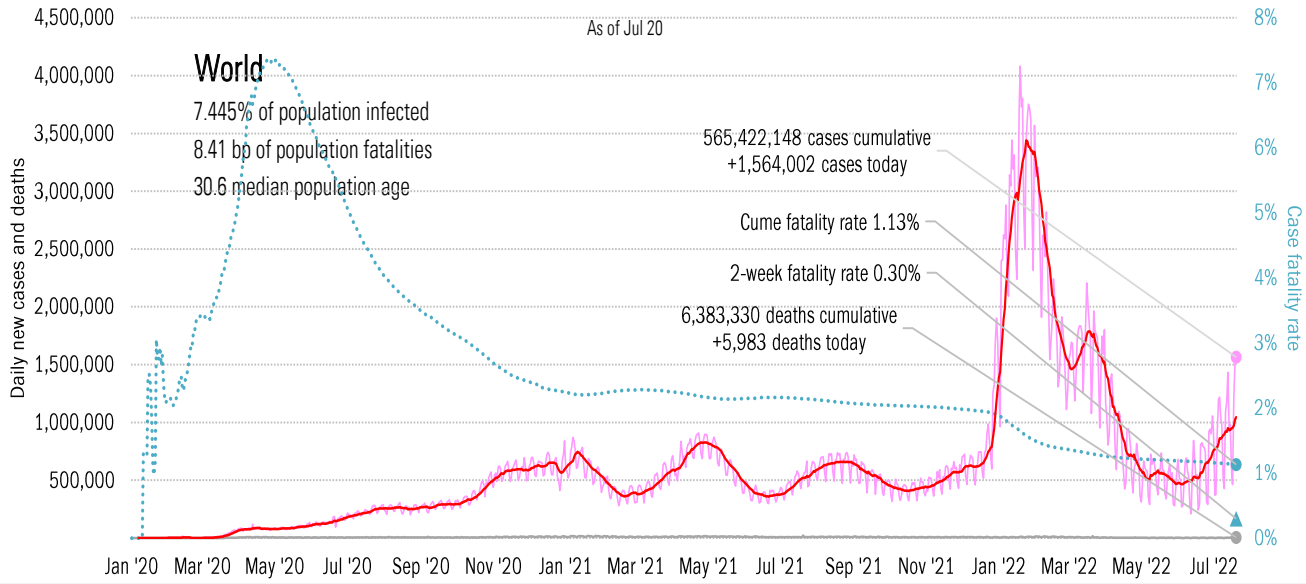
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Turkey	226,532	India	2,612
United States	176,901	United Kingdom	1,153
Japan	152,466	United States	422
United Kingdom	138,785	Brazil	346
Germany	136,624	Germany	177
France	90,310	Italy	157
Italy	86,801	France	125
Korea, South	71,109	Mexico	107
Brazil	56,480	Turkey	96
Costa Rica	55,406	Norway	92
	1,191,414		5,287
World	1,564,002	World	5,983
Top ten	76%	Top ten	88%





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

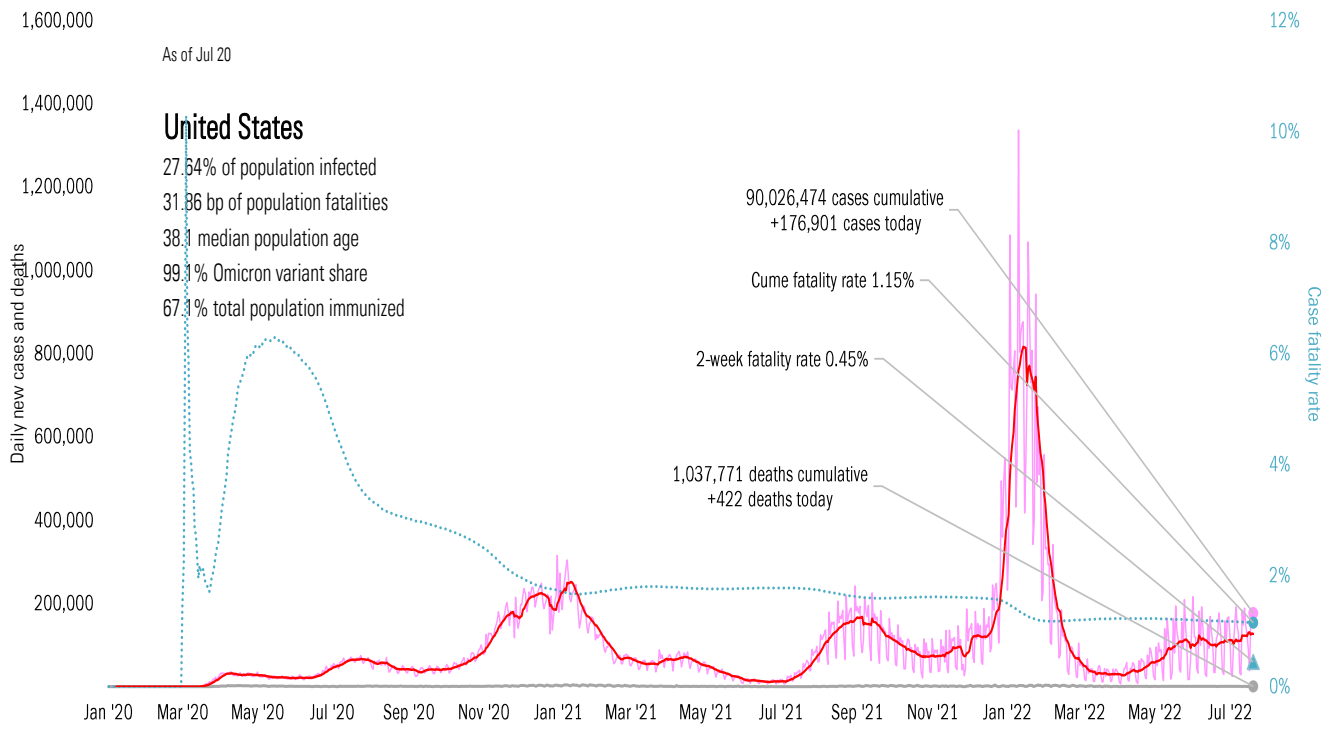
New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
NC	30,130	GA	112	TX	673	CA	10,515,406	CA	93,046	TX	515,343	RI	91%	TX	89%
PA	20,240	PA	98	GA	297	TX	7,424,357	TX	89,018	CA	463,809	MA	85%	VT	87%
TX	13,905			IN	144	FL	6,683,449	FL	76,901	FL	457,167	WA	85%	RI	84%
FL	11,023			LA	171	NY	5,749,409	NY	70,041	NY	277,315	DE	84%	MA	83%
NY	8,213			OH	250	IL	3,516,370	PA	46,047	GA	213,755	MN	84%	AL	82%
KS	7,444			AL	131	PA	3,058,316	OH	38,959	OH	203,410	GA	84%	NE	81%
CA	7,054			SC	108	NC	2,949,198	GA	38,933	PA	190,333	MO	83%	WA	81%
IL	5,303	IA	41	KY	136	OH	2,891,756	IL	38,785	IL	172,721	WV	82%	NH	81%
WA	4,686	NC	40	WA	137	GA	2,721,391	MI	37,291	MI	152,142	MI	81%	NC	80%
NJ	3,961	NY	29	OK	94	MI	2,652,659	NJ	34,189	KY	137,923	AK	81%	MO	79%
	111,959		598		2,141		48,162,311		563,210		2,783,918				
All states	176,901		422		6,685	All states	90,026,474		1,037,771		5,053,905	All states	70%		67%
Top ten	63%		142%		32%	Top ten	53%		55%		55%	Median	77%		73%

US state fatality data distorted today due to revisions.

Some states not reporting

Five most improved US states

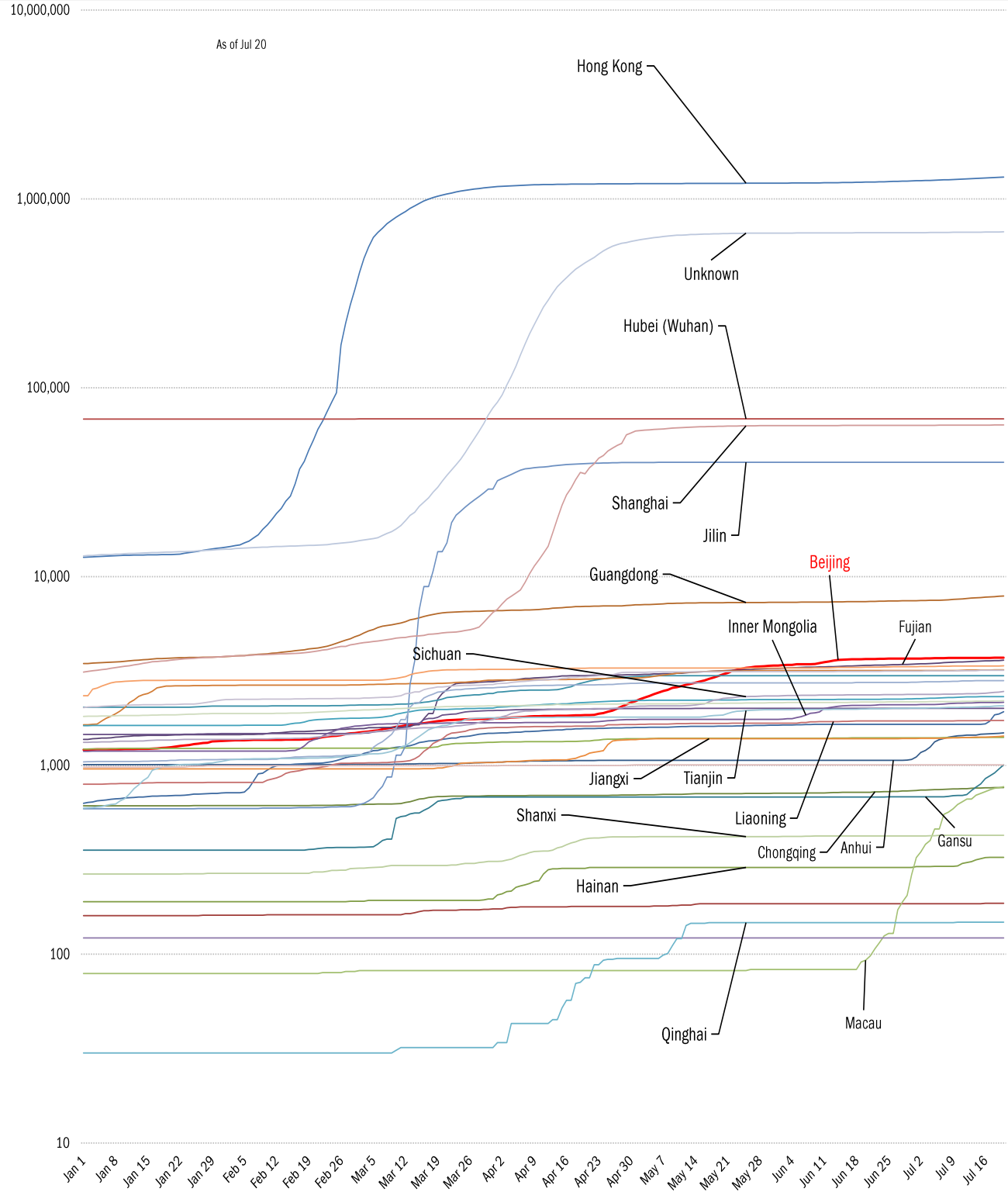
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
CA	-10,609	MI	-149	NY	-161
TN	-2,159	SC	-77	FL	-125
IN	-1,907	CA	-28	PA	-71
MD	-1,478	NY	-26	NC	-61
NE	-1,208	NM	-15	TN	-35



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

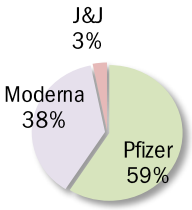
Rolling out the vaccines in the US and the world

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

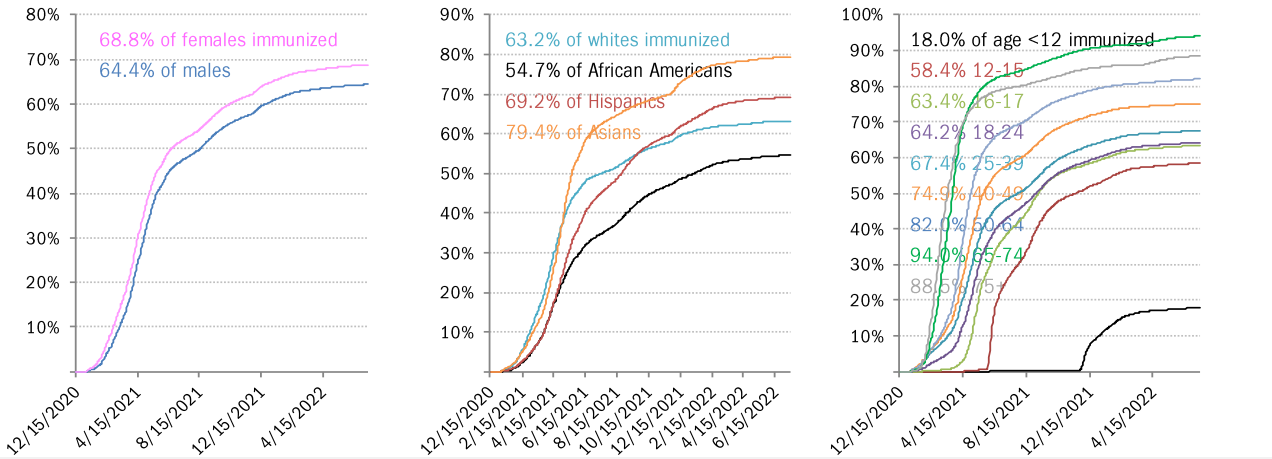
"Immunity" = two doses

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%

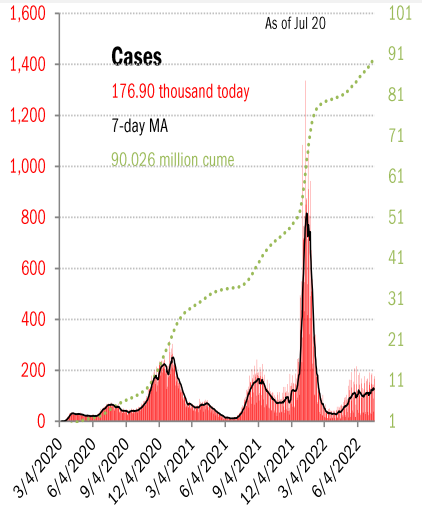
The demographics of US vaccination

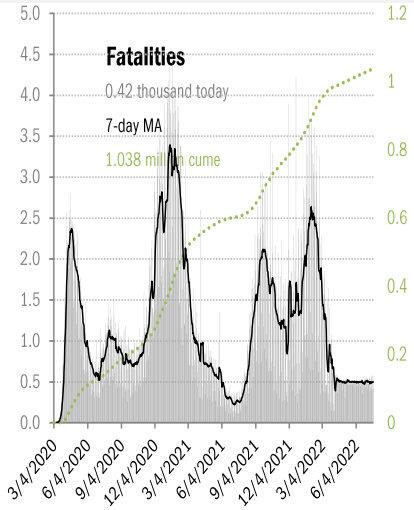


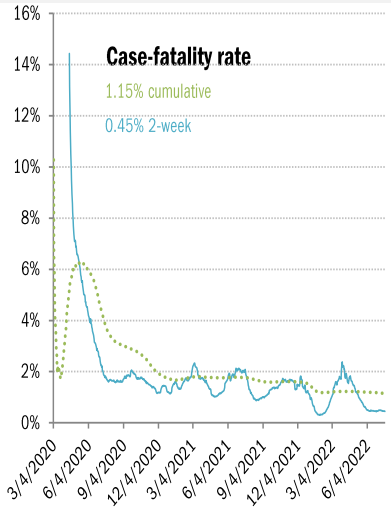
Source: CDC, CDC, Our World in Data, TrendMacro calculations

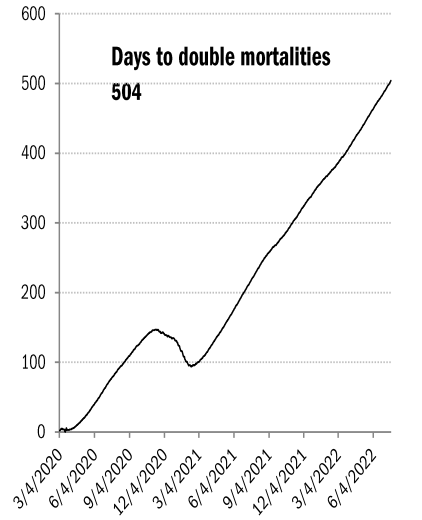
US deep-dive

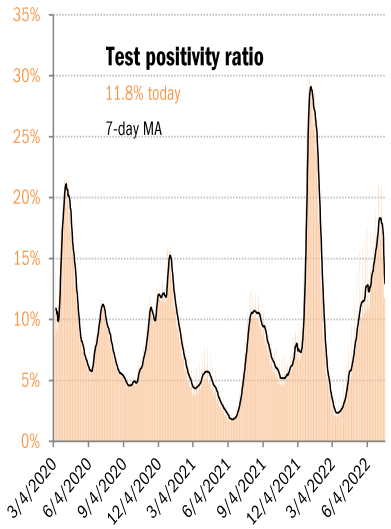
National and state-by-state data do not line up because of different sources

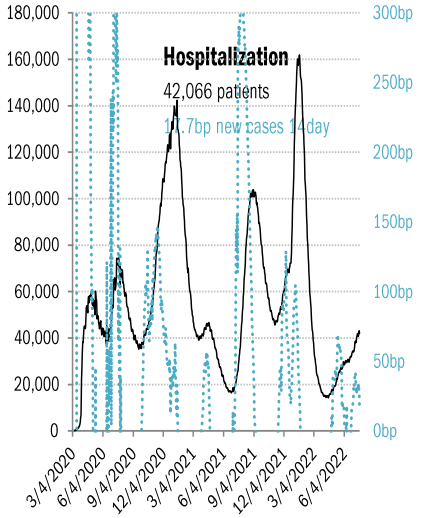


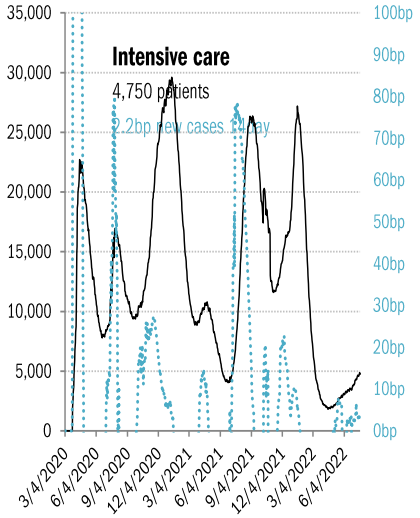


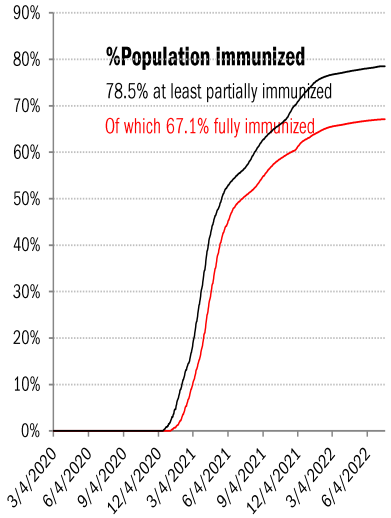












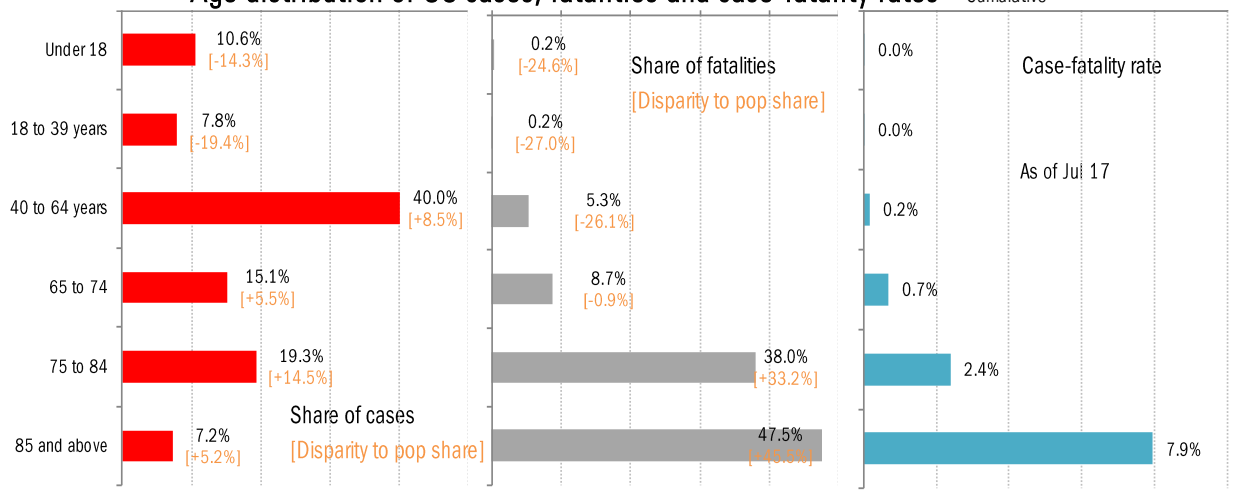
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

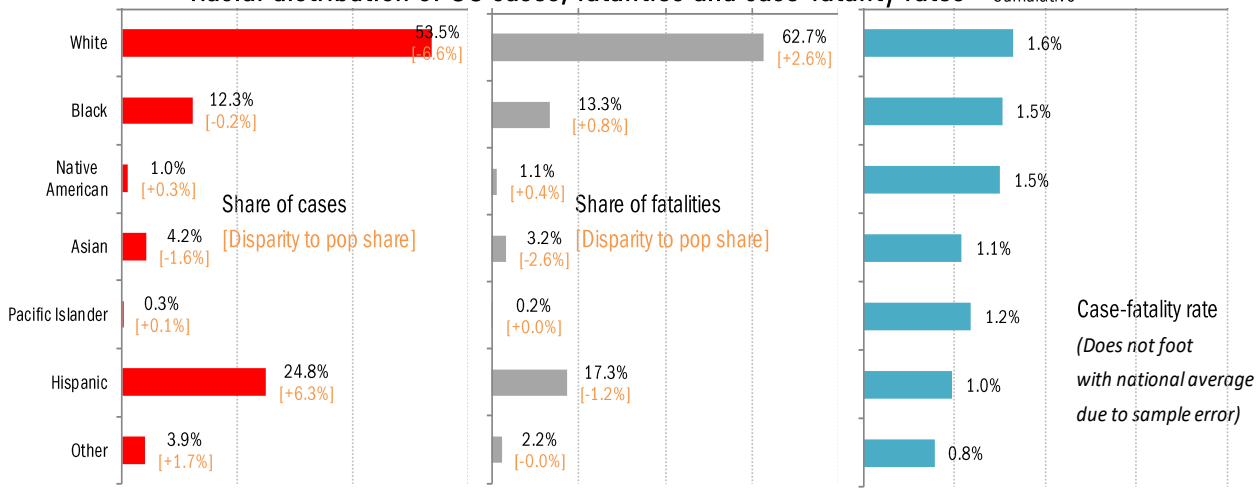
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



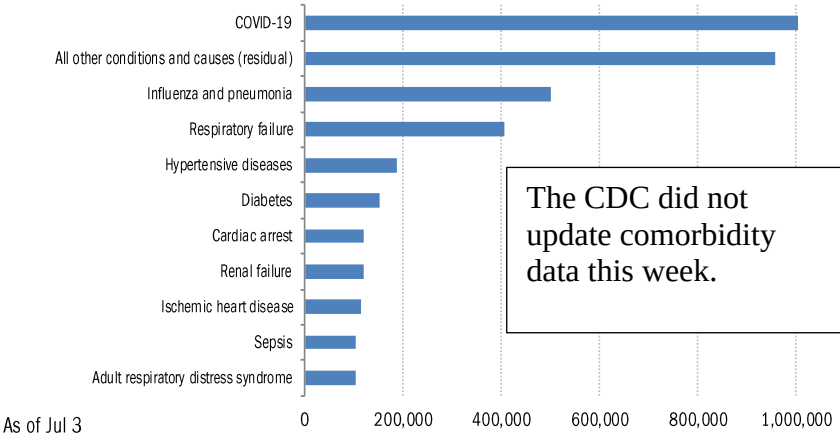
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



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

Endemic Covid-19 Looks Pretty Brutal
David Wallace-Wells
New York Times
July 20, 2022

Officials reorganize HHS to boost pandemic response
Dan Diamond
Washington Post
June 20, 2022

Adverse effects of COVID-19 vaccines and measures to prevent them
Kenji Yamamoto
NIH National Library of Medicine
June 5, 2022

Increased Risk of Herpes Zoster in Adults ≥50 Years Old Diagnosed With COVID-19 in the United States
Amit Bhavsar et al.
Open Forum Infectious Diseases
May 2022

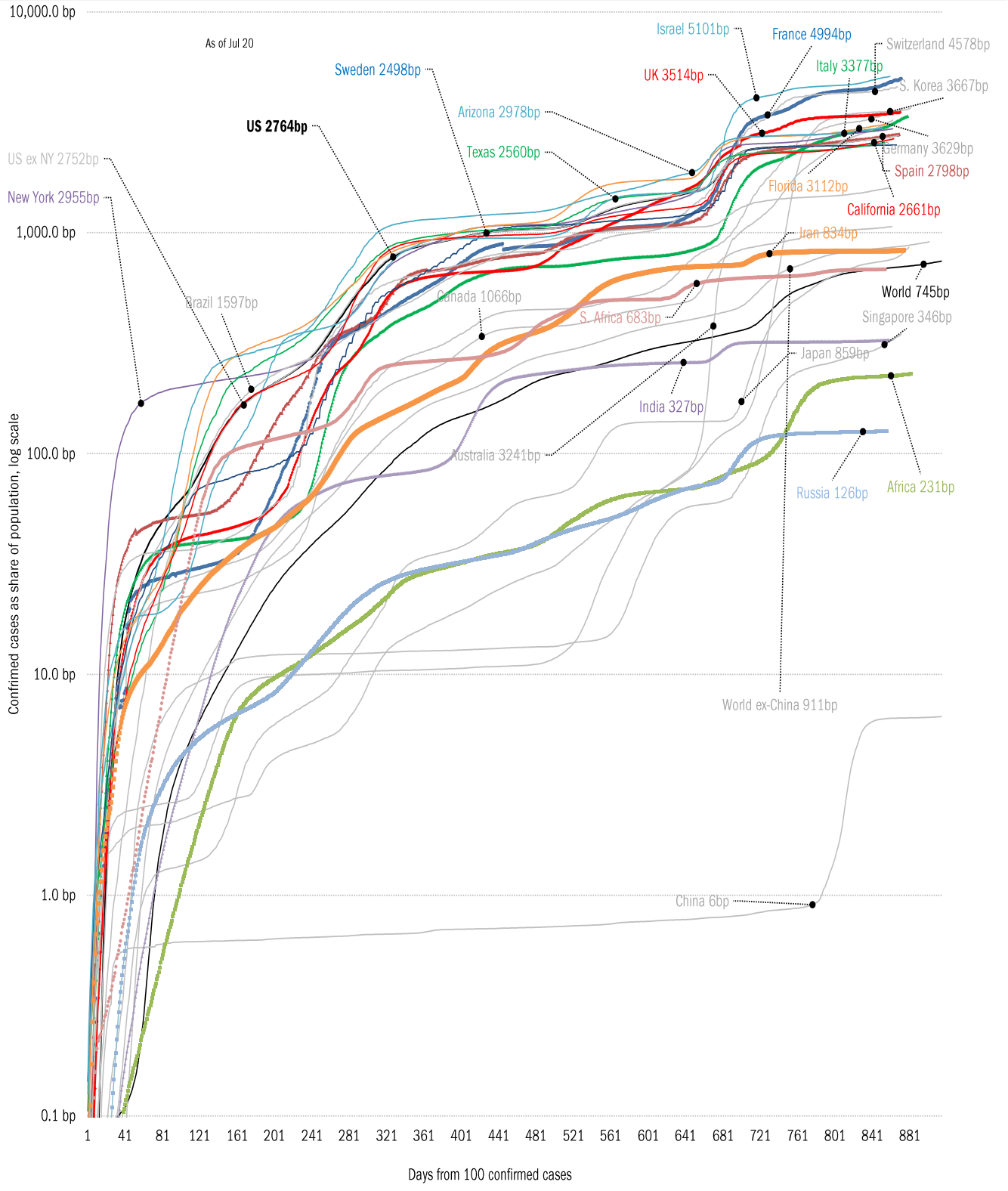
Meme of the day

Retiring Dr. Fauci To Be Honored With 21-Booster Shot Salute

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

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

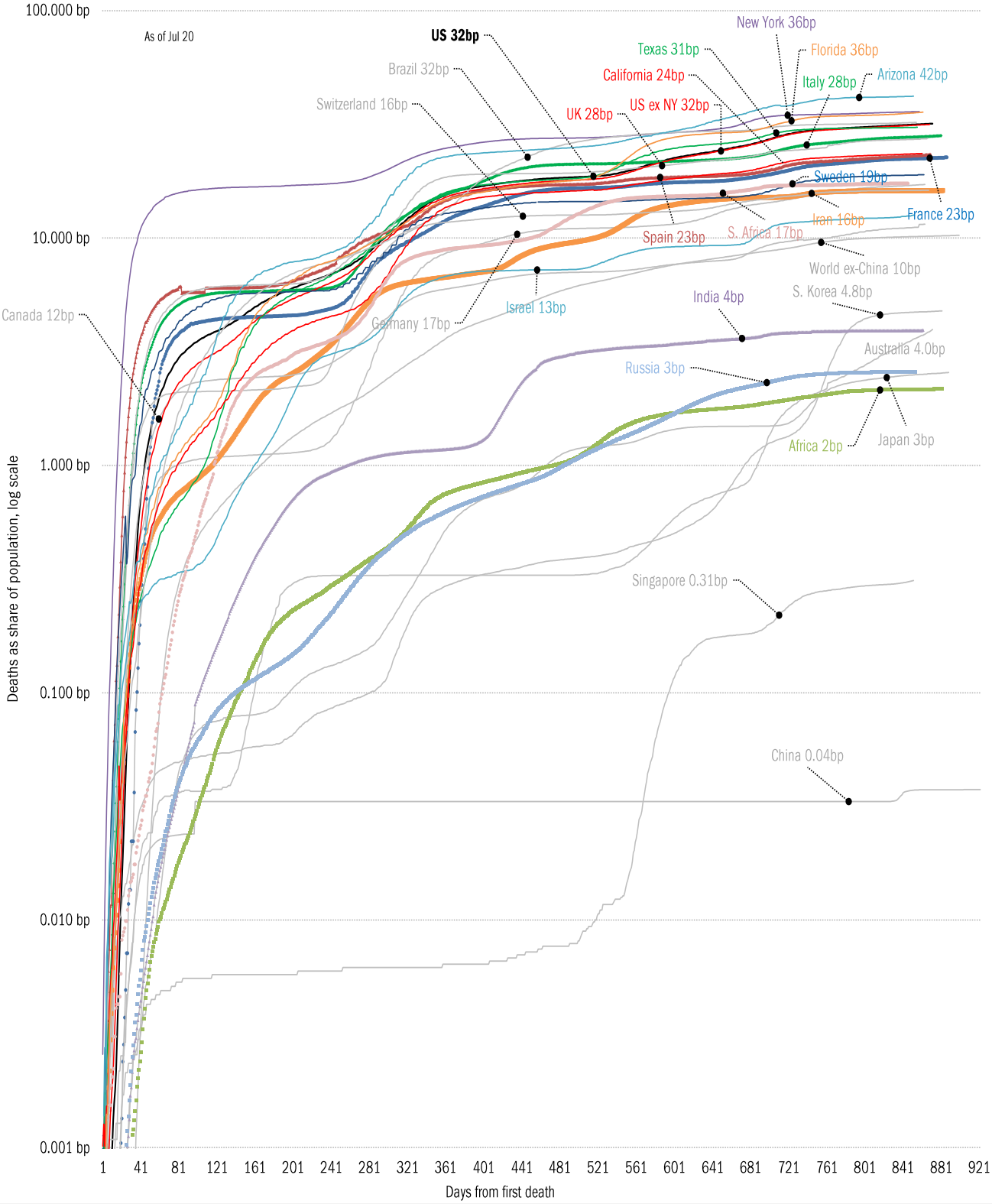
Share of infected population from first day with 100 confirmed cases, log scale



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

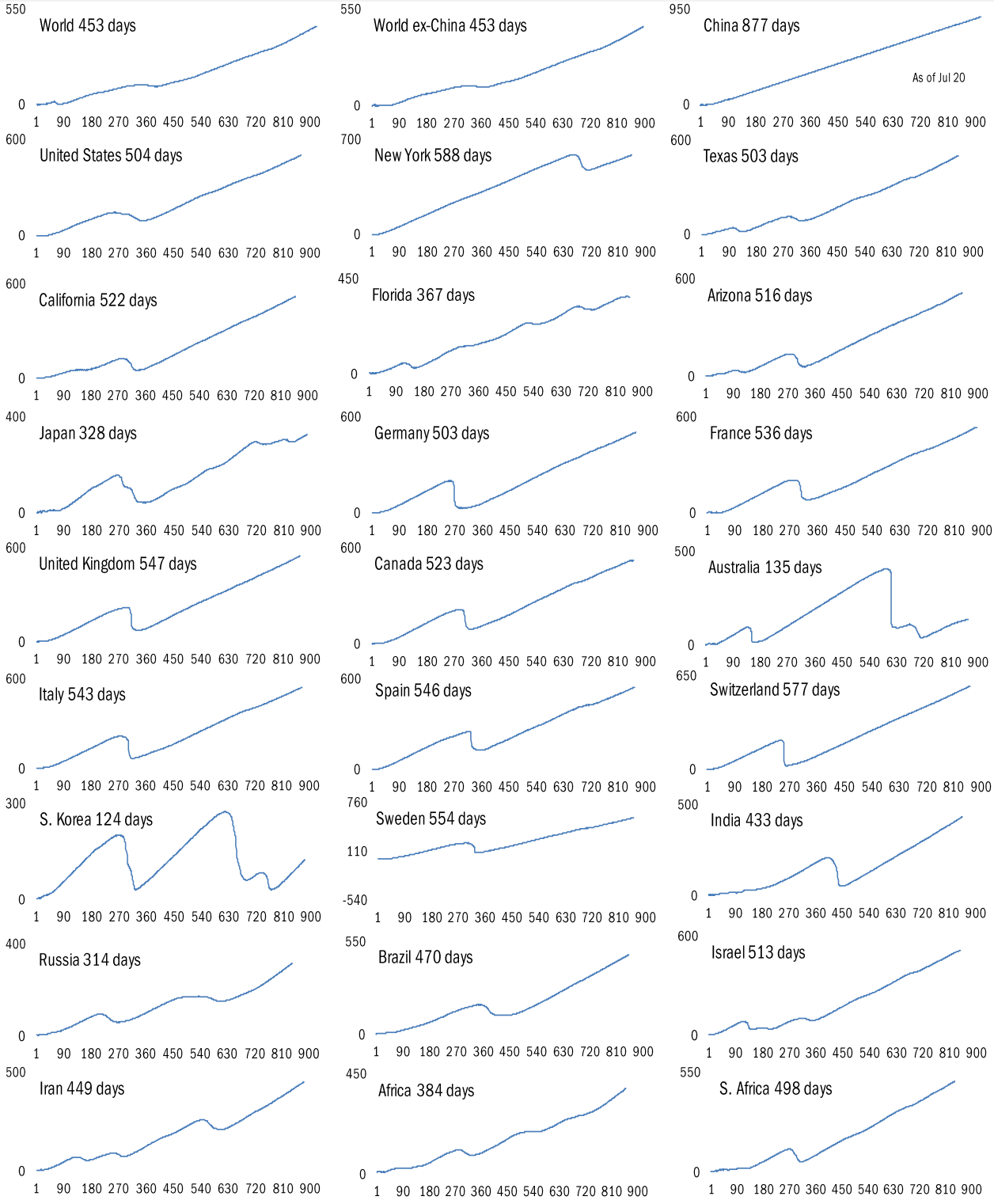


Source: Johns Hopkins, TrendMacro calculations

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

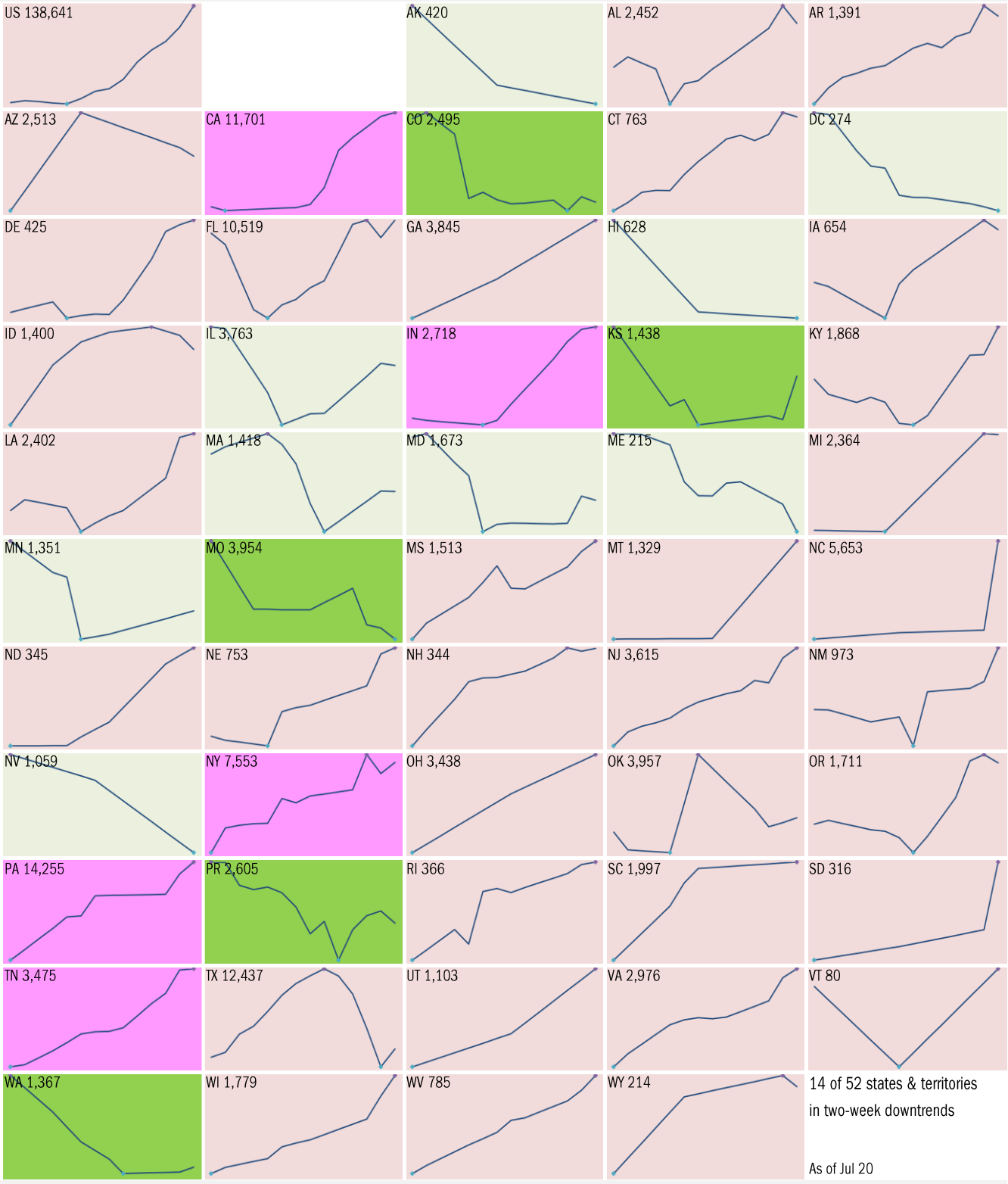


Source: Johns Hopkins, TrendMacro calculations

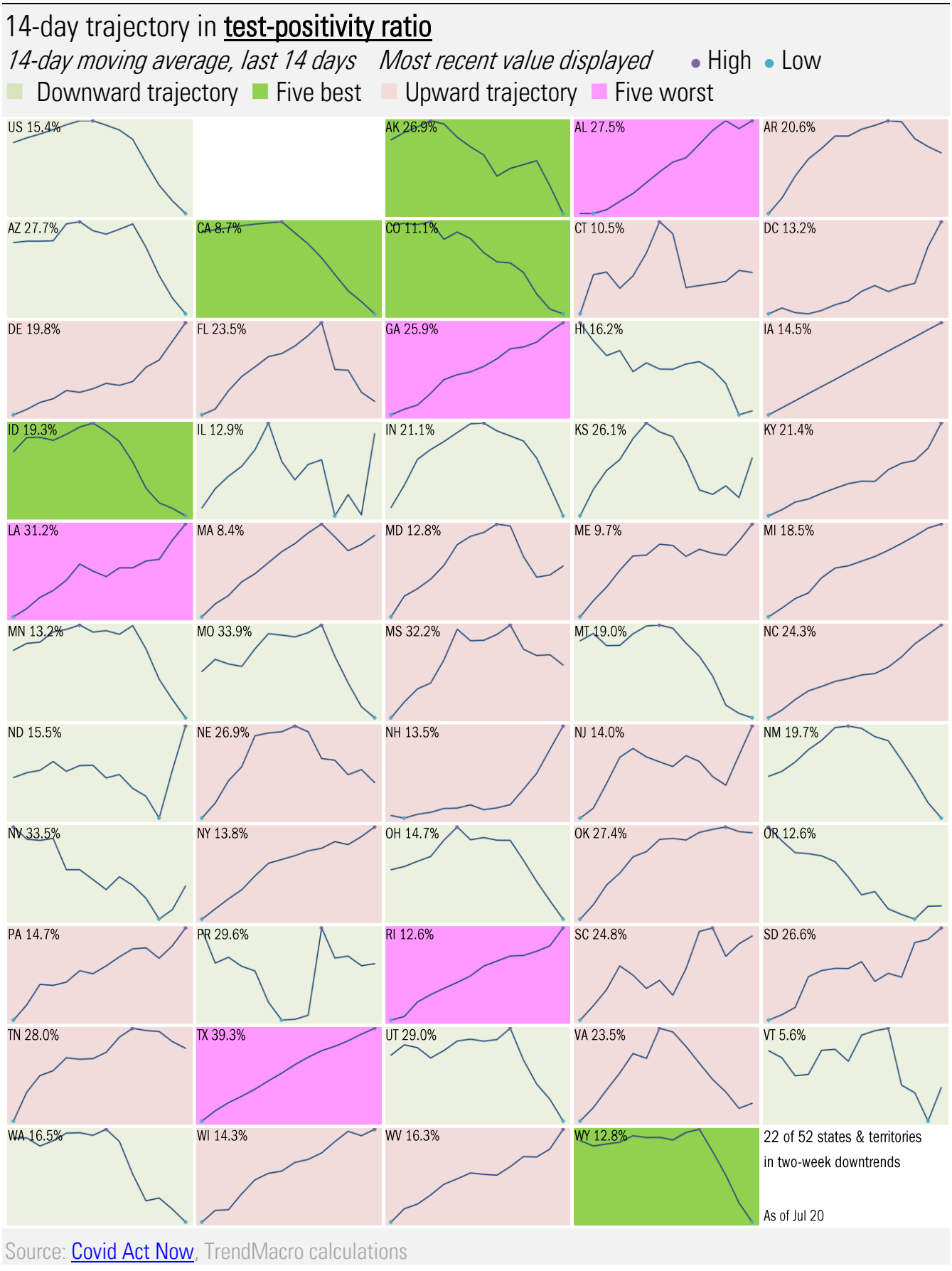
14-day trajectory in new cases

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

Downward trajectory Five best Upward trajectory Five worst



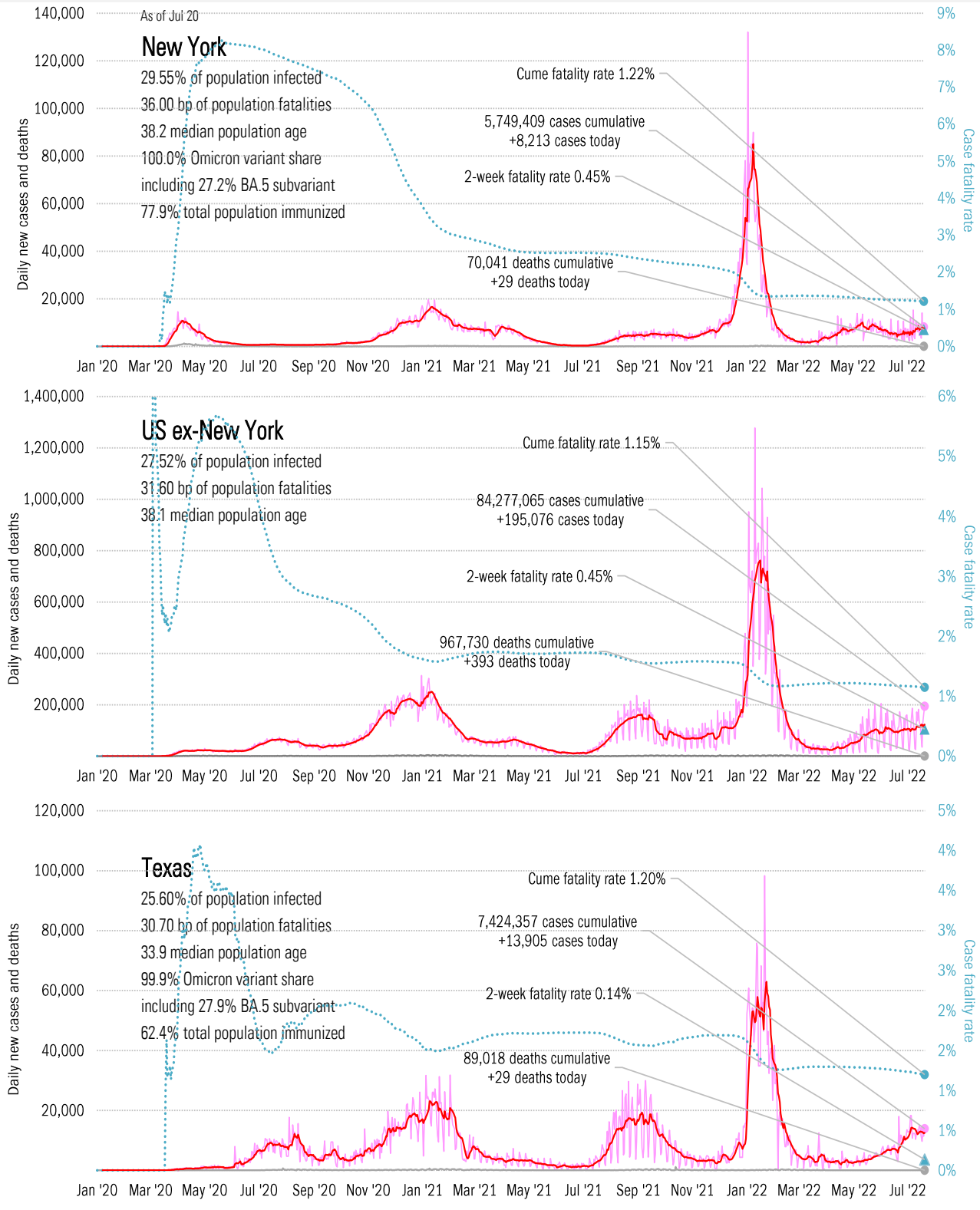
Source: Johns Hopkins, TrendMacro calculations



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

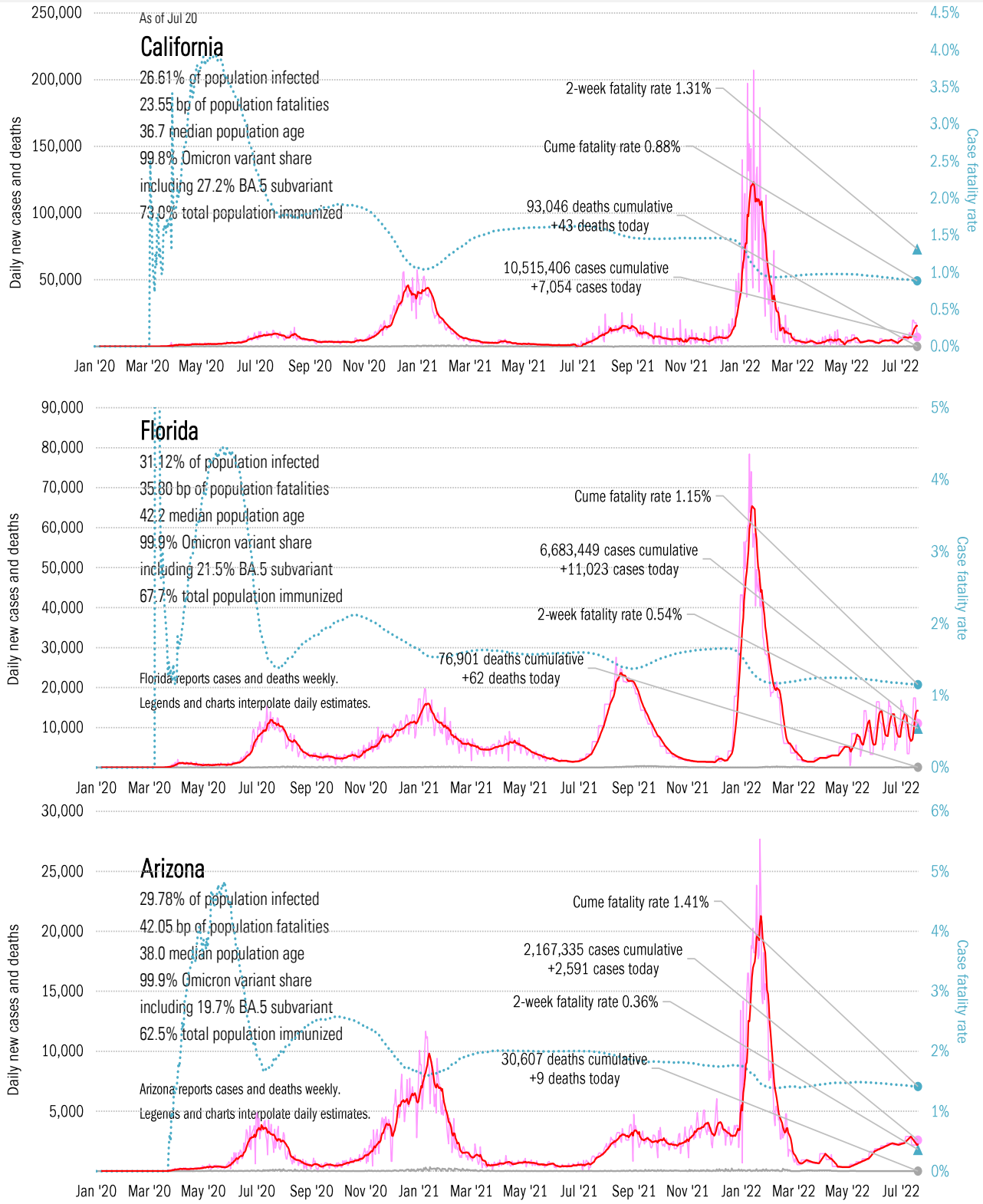
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

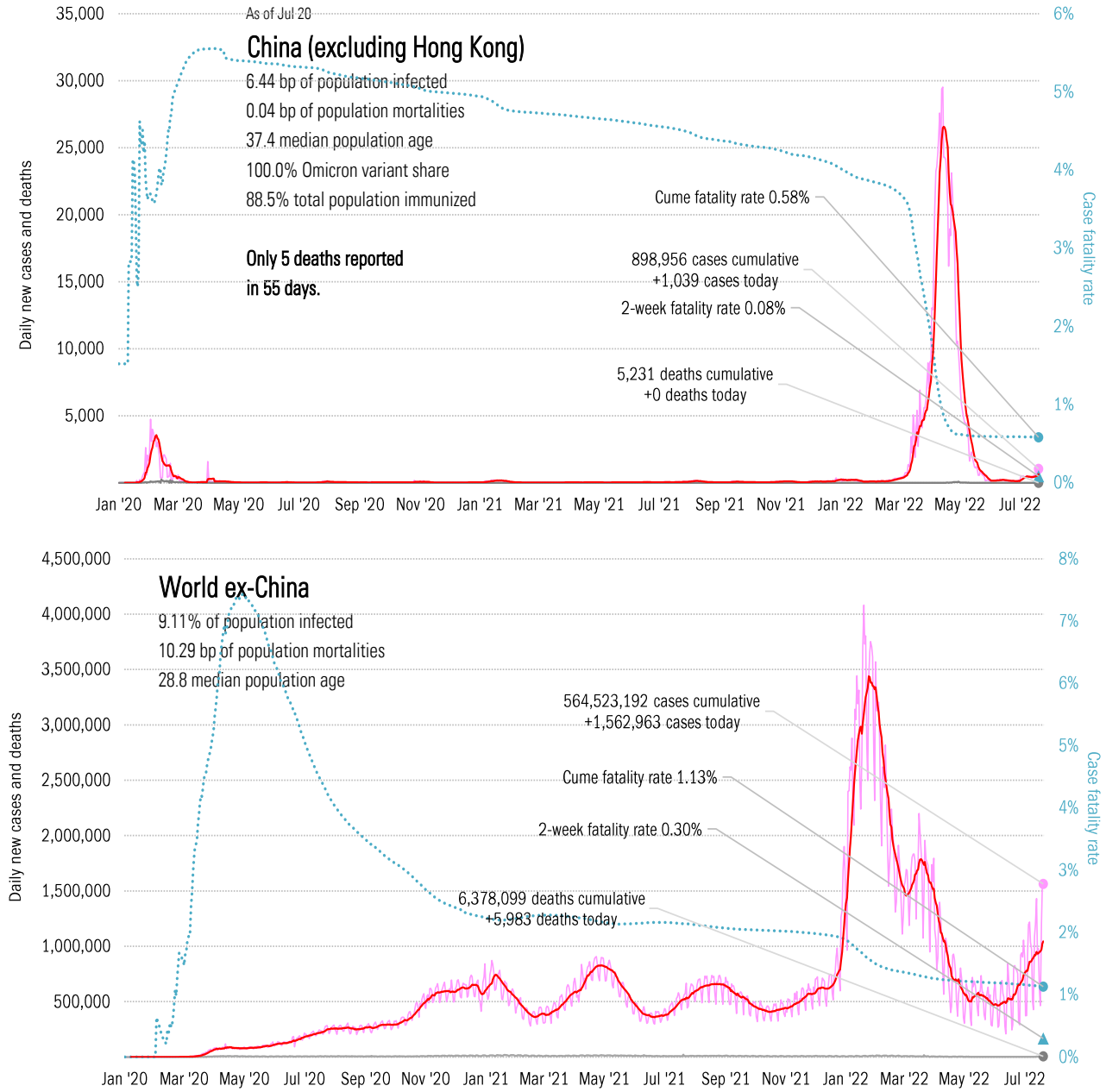
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

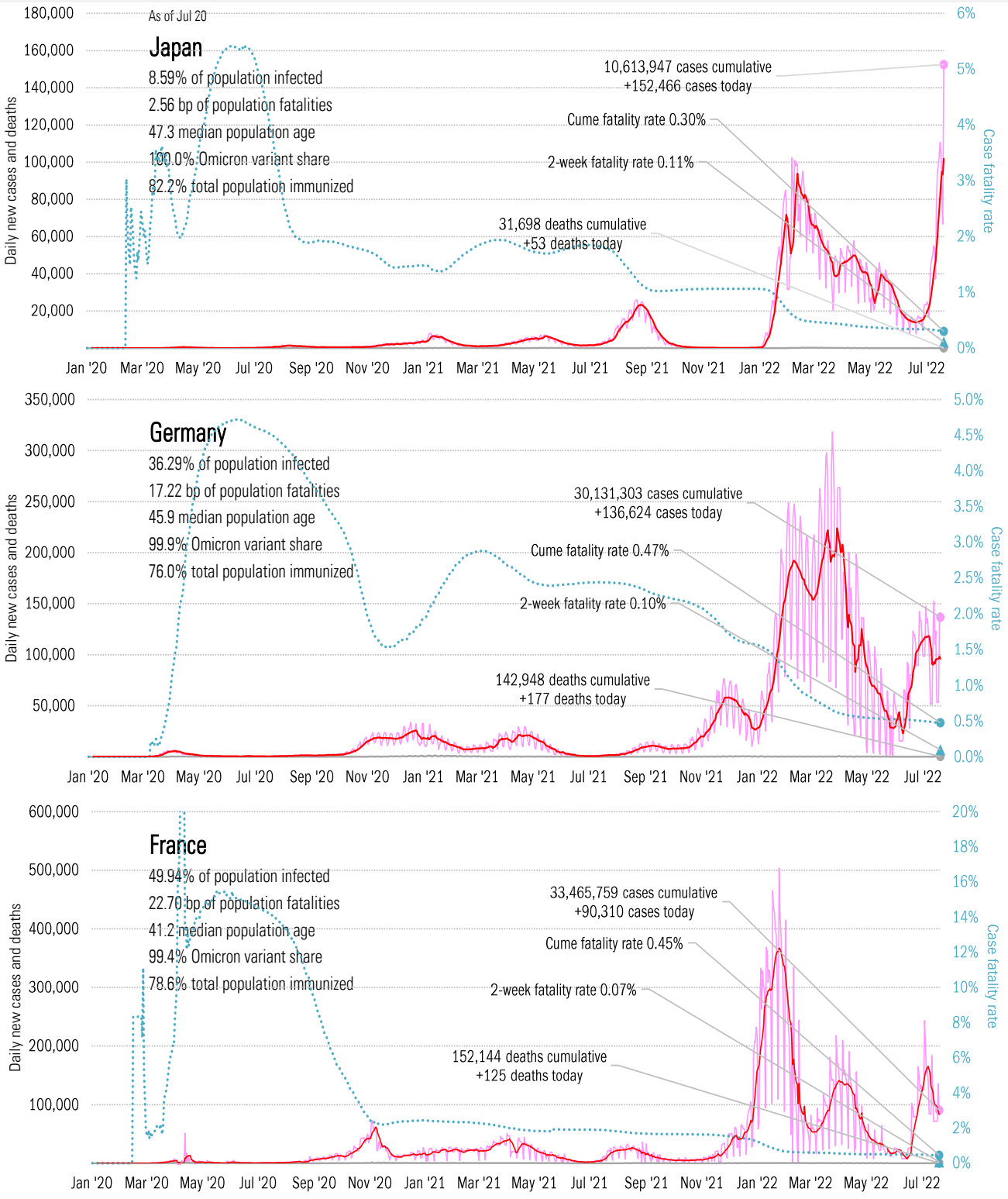
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

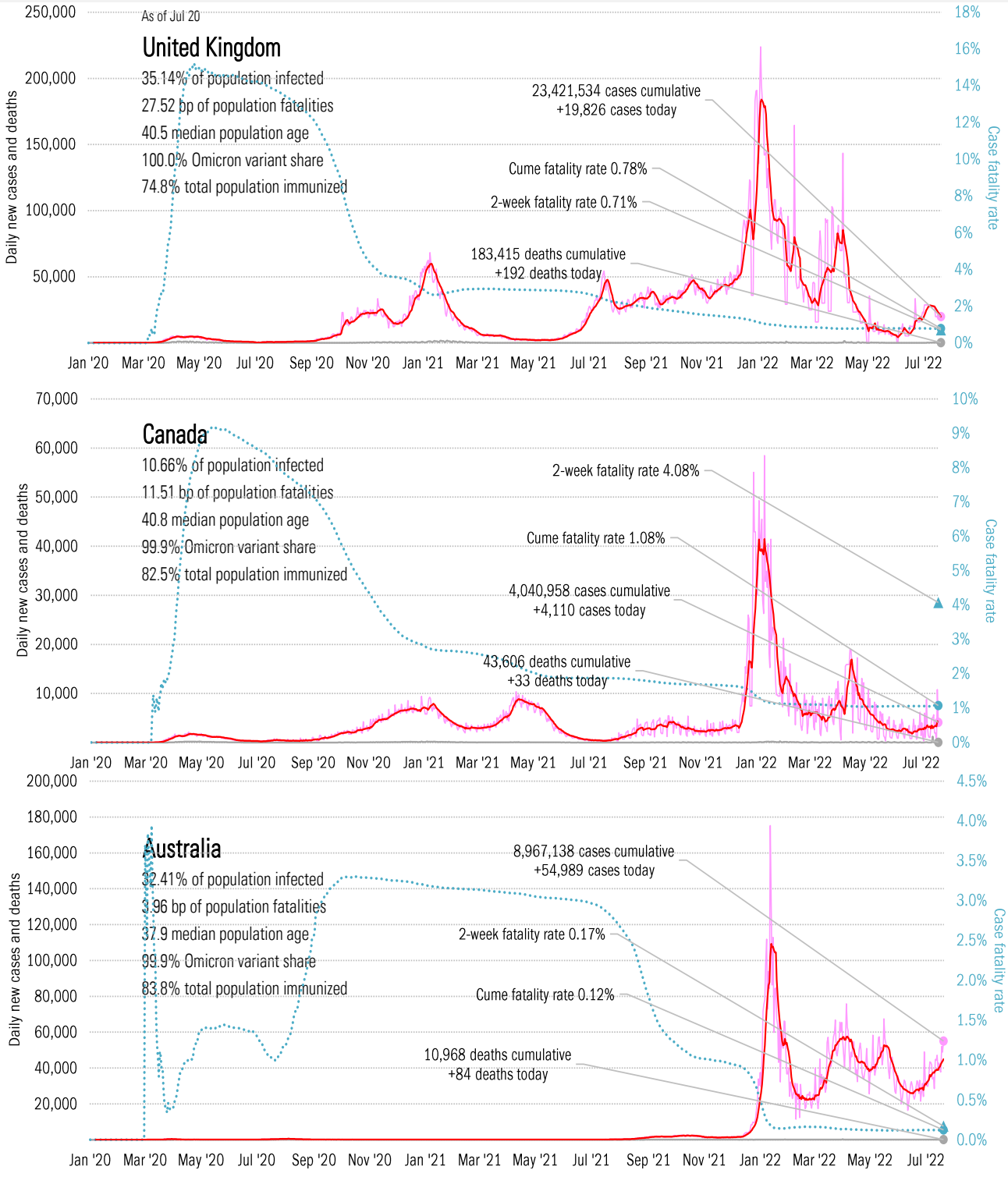
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

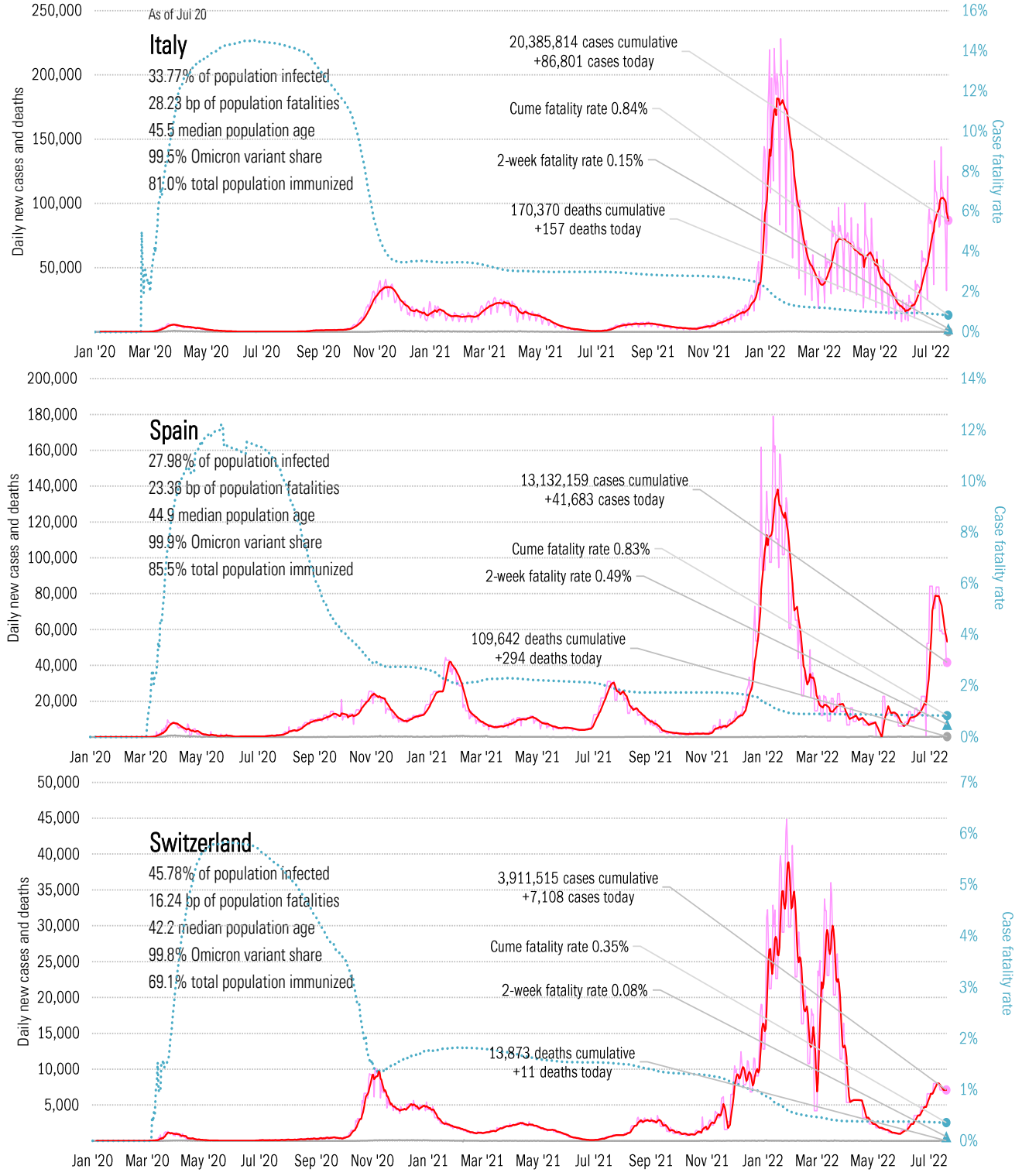
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

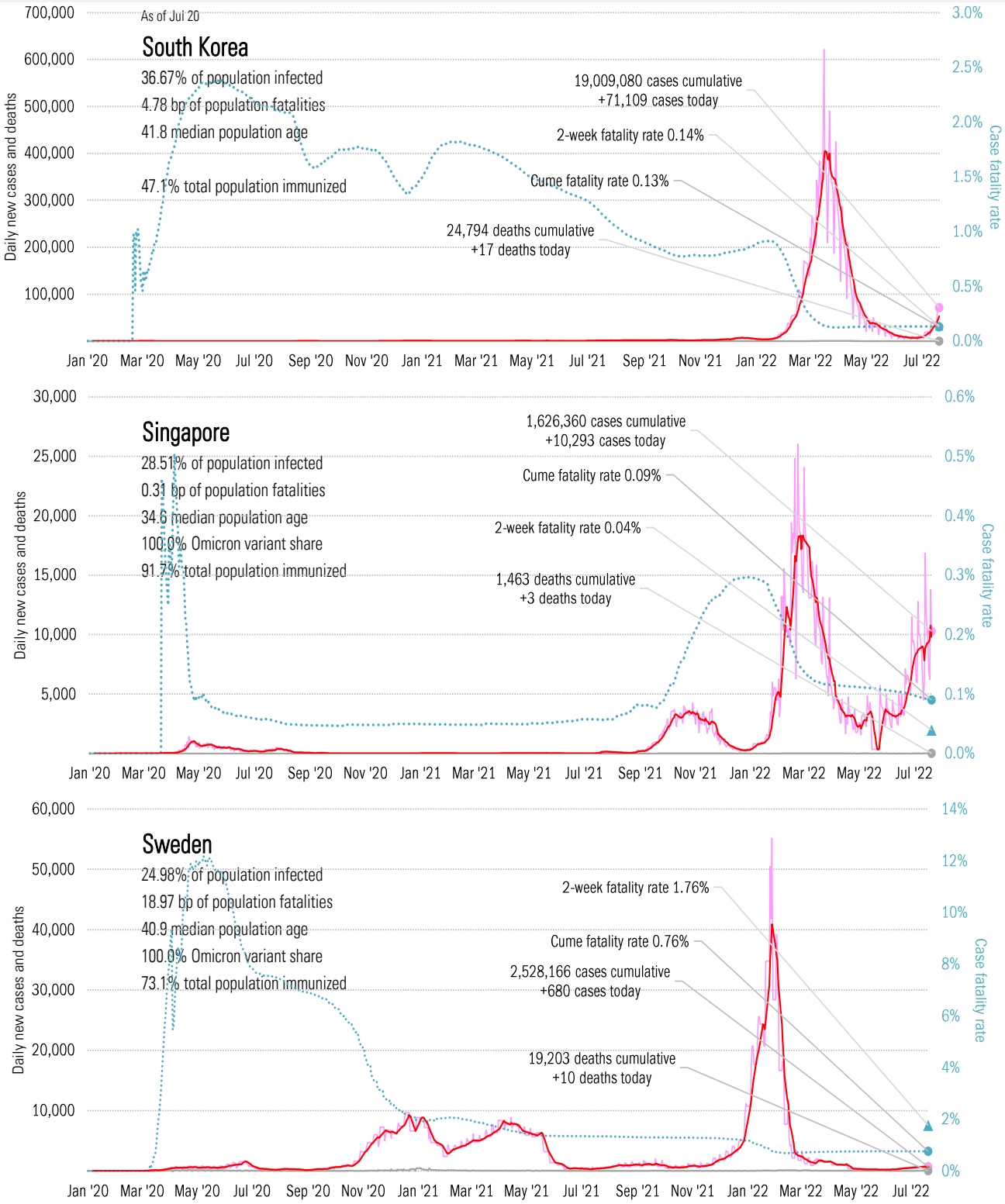
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

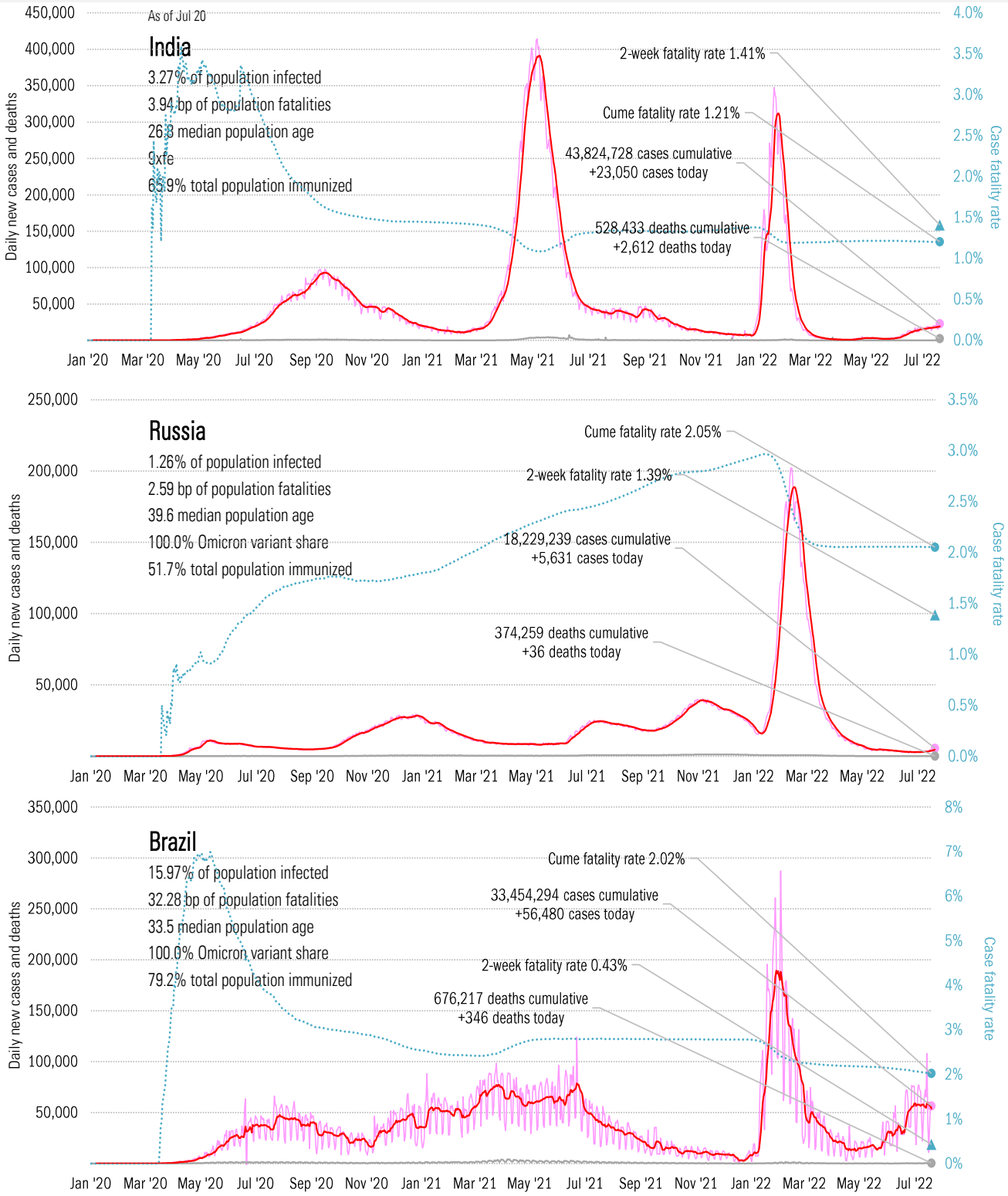
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

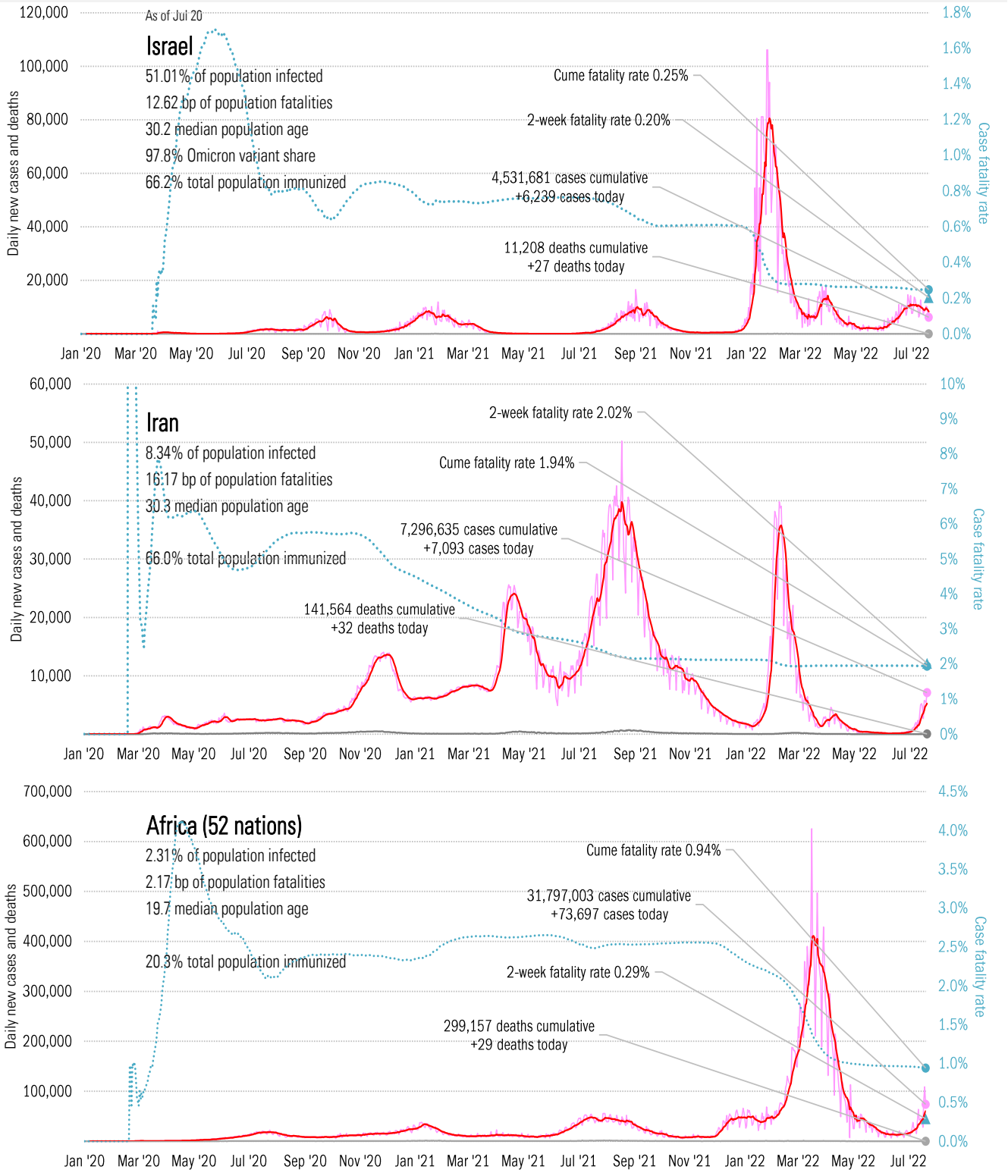
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

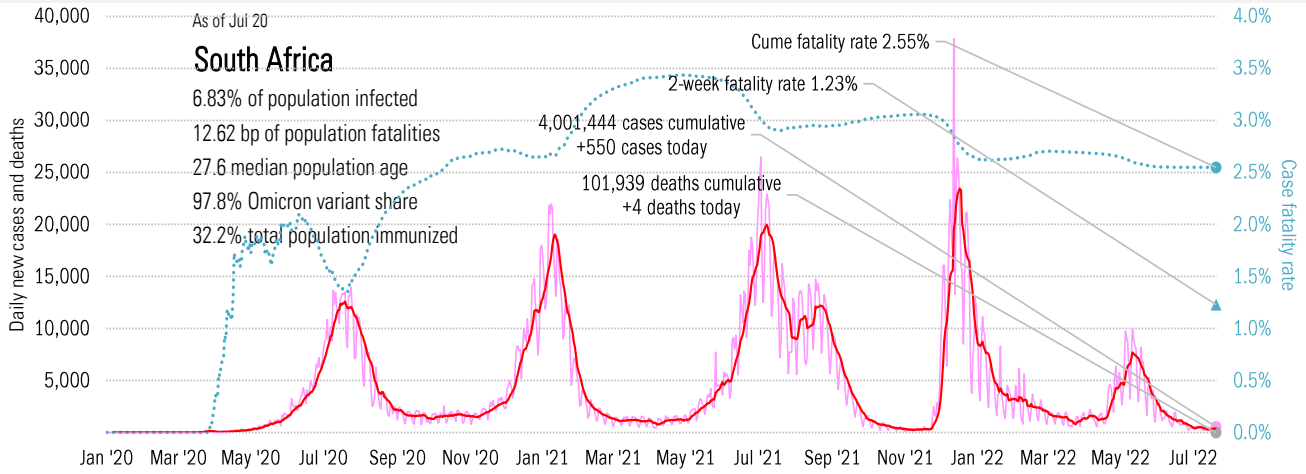
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations