Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

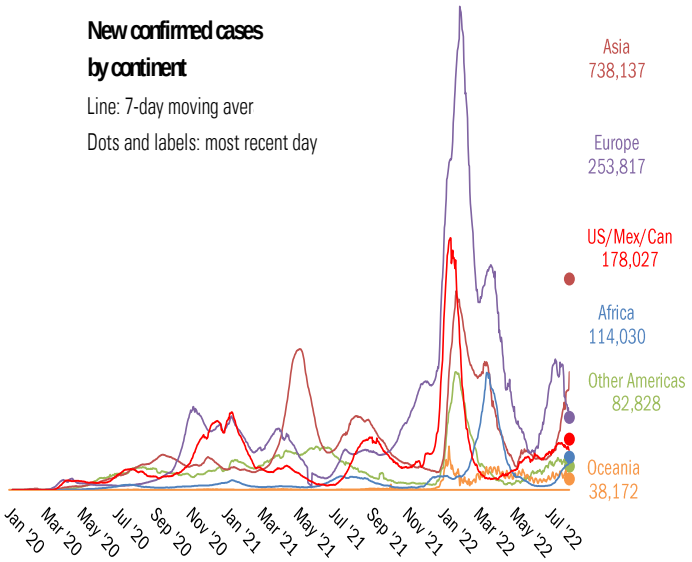
Friday, August 5, 2022

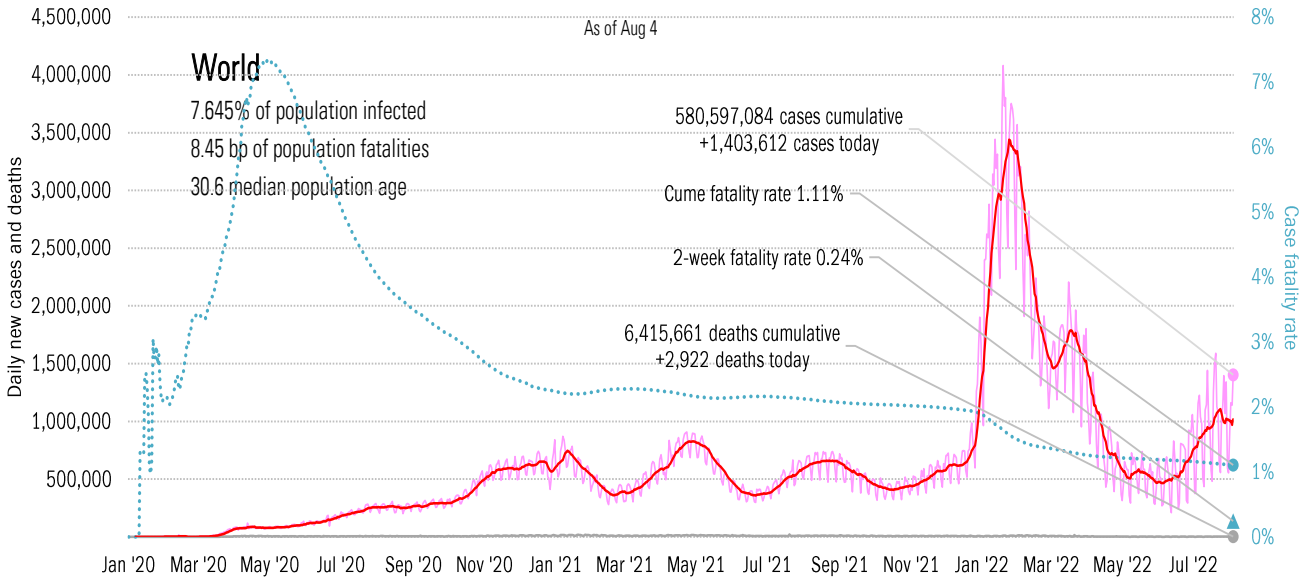
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Vietnam	404,846	United States	579
Japan	238,651	Brazil	261
United States	135,187	Finland	239
Korea, South	112,857	Colombia	230
Germany	59,506	Germany	165
Finland	47,182	Italy	161
Italy	42,959	Japan	161
Brazil	40,433	Mexico	122
France	33,491	Australia	90
Australia	32,546	France	87
	1,147,658		2,095
World	1,403,612	World	2,922
Top ten	82%	Top ten	72%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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The US scorecard

Cases: 7-day average and daily Deaths: Daily

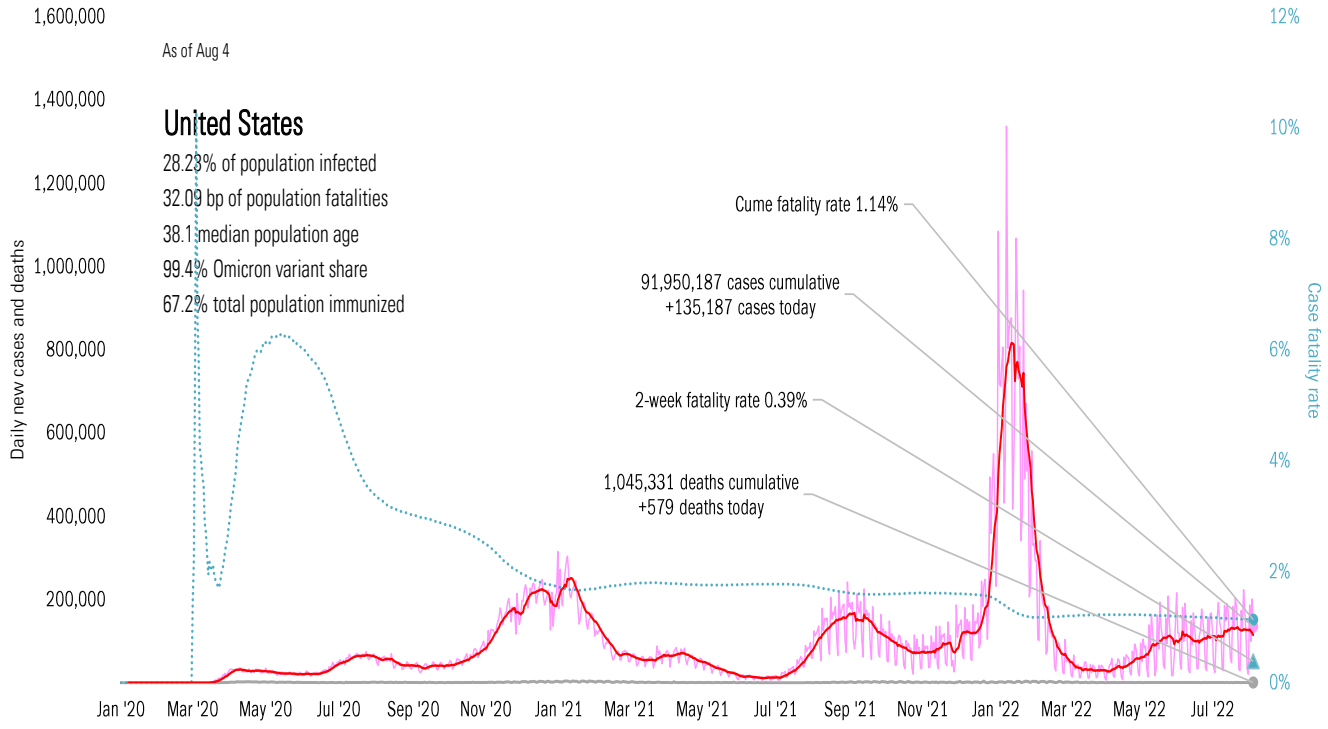
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TX	11,461	NY	69	MI	166	CA	10,773,393	CA	93,688	TX	523,993	RI	91%	RI	88%
NY	11,192	FL	64	IA	72	TX	7,599,710	TX	89,448	CA	473,754	MA	88%	AK	84%
MA	10,584	WA	45	VA	131	FL	6,841,660	FL	77,865	FL	467,971	WA	85%	NC	83%
FL	9,633	IN	41	MN	77	NY	5,853,678	NY	70,459	NY	282,731	GA	85%	AL	82%
KS	6,618	TX	36	NC	196	IL	3,588,158	PA	46,261	GA	216,797	MN	84%	MA	82%
CA	5,337	CA	33	WA	96	PA	3,105,341	GA	39,173	OH	206,760	WV	83%	WA	82%
IN	4,810	IL	33	CT	72	NC	3,016,395	OH	39,133	PA	193,121	MD	83%	TX	81%
NC	4,752	NC	29	OR	60	OH	2,976,027	IL	38,956	IL	176,019	DE	83%	NM	80%
OK	4,367	VA	29	NH	28	GA	2,778,580	MI	37,534	MI	154,162	MI	82%	ID	79%
IL	4,149	OR	18	TN	127	MI	2,692,485	NJ	34,320	KY	139,387	NH	81%	OR	78%
	72,903		397		1,025		49,225,427		566,837		2,834,695				
All states	135,187		579		6,475	All states	91,950,187		1,045,331		5,144,667	All states	70%		67%
Top ten	54%		69%		16%	Top ten	54%		55%		55%	Median	78%		73%

Some states not reporting

Five most improved US states

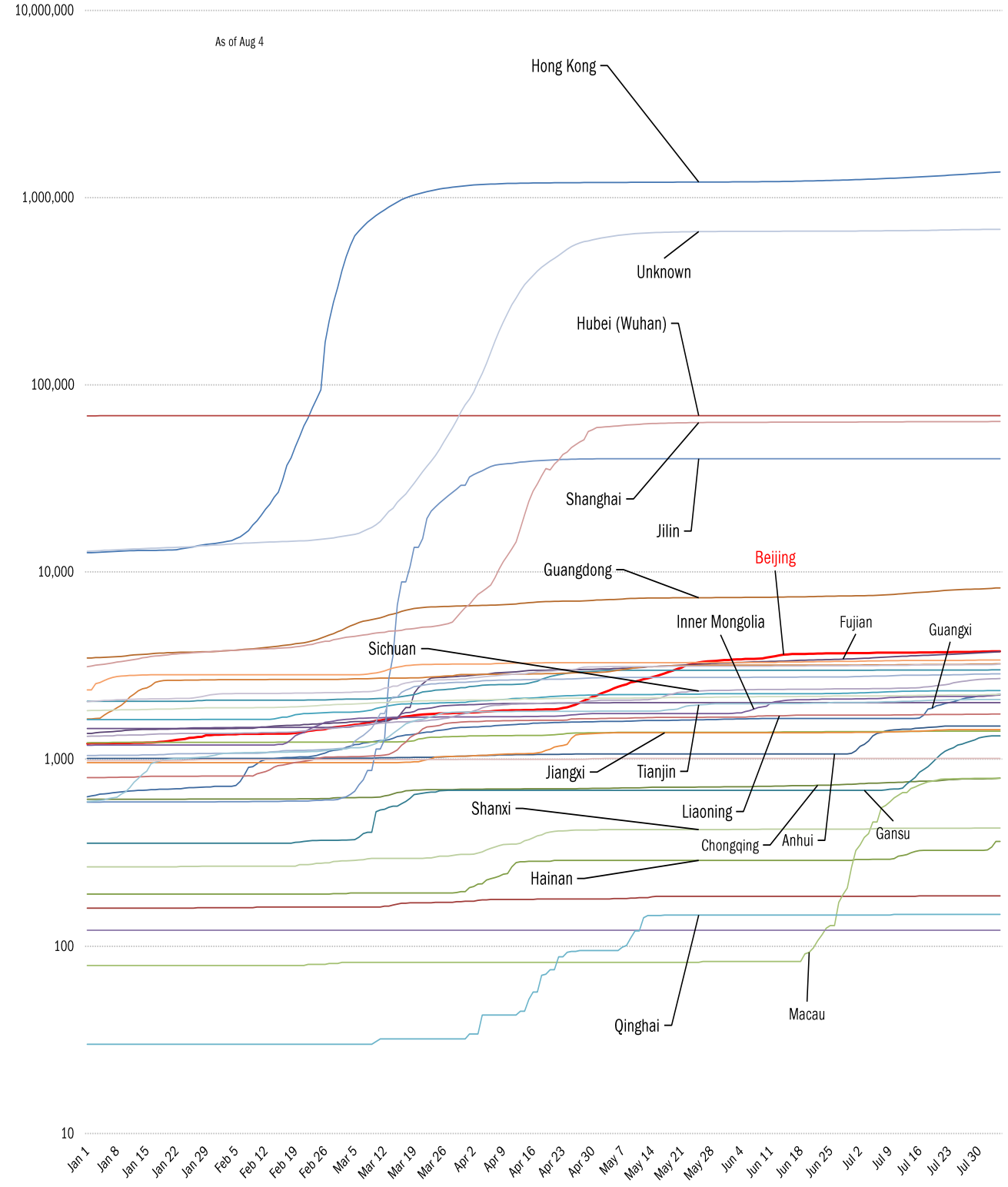
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
TN	-4,936	TN	-81	IN	-80
IA	-3,527	CA	-13	GA	-57
CA	-1,299	MD	-11	MS	-34
OR	-956	TX	-10	OH	-31
IL	-869	MS	-7	PR	-31



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

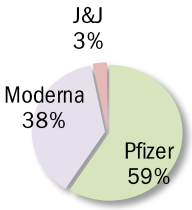
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	618,880,610				+0.321 million
of which boosters	109,944,235				+0.067 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	269,704,032	81%	229,576,521	69%	+0.044 million
Age 12 to 17	18,050,227	71%	15,431,741	61%	+0.003 million
Age 18 to 64	180,435,199	89%	153,104,165	75%	+0.019 million
Age 65 and over	59,610,629	100%	52,148,393	95%	+0.009 million

Immunity	Full	Partial
US	67.2%	78.8%
UK	74.9%	79.8%
France	78.6%	80.9%
Spain	85.5%	86.9%
Germany	76.0%	77.6%
Italy	81.0%	85.8%
Australia	83.8%	86.4%
Israel	66.2%	72.3%
Canada	82.6%	86.0%
Japan	82.3%	83.4%
Africa	20.7%	26.4%
India	66.2%	72.5%
Brazil	79.4%	86.4%
China	88.7%	91.1%

Global data differs due to sources, timing



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

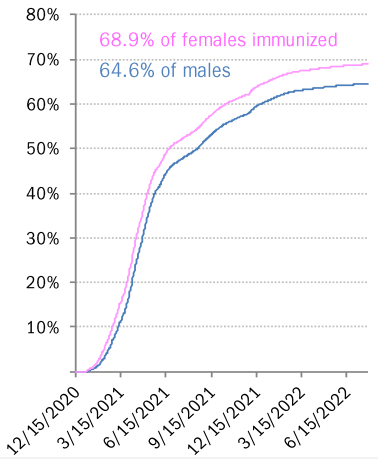
"Immunity" = two doses

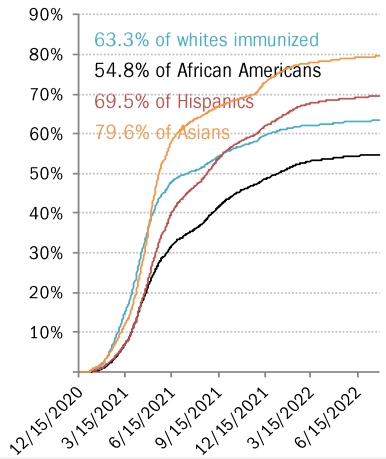
Best
Middle
Worst

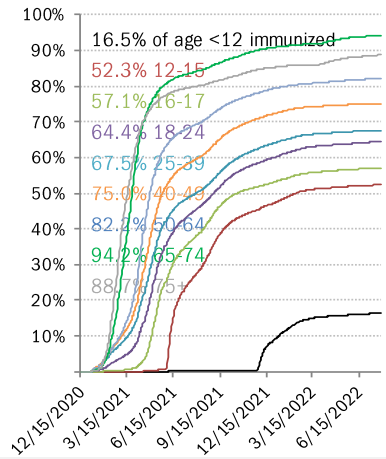
As of Jul 28

AK					WI					ME
71.1%					72.8%					92.6%
63.0%					66.3%					80.9%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
82.3%	62.6%	66.2%	66.6%	76.3%	76.8%	67.7%		91.6%	95.0%	90.0%
73.3%	56.1%	57.5%	56.3%	70.0%	69.3%	60.8%		78.1%	82.3%	71.9%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
79.0%	76.6%	59.0%	78.4%	68.8%	62.9%	64.1%	86.9%	91.9%	95.0%	
70.5%	61.7%	51.6%	63.1%	62.6%	56.6%	59.0%	70.0%	76.8%	80.4%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
83.6%	73.1%	80.8%	71.3%	67.2%	67.1%	65.9%	87.4%	88.3%	95.0%	95.0%
73.1%	65.0%	71.1%	64.4%	57.0%	58.1%	58.3%	74.2%	76.8%	80.4%	84.2%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	74.9%	89.8%	73.7%	67.8%	63.0%	86.6%	68.9%	95.0%	84.7%	
	62.7%	72.4%	62.9%	55.3%	55.1%	63.0%	57.9%	77.6%	70.4%	
			OK	LA	MS	AL	GA			
			72.3%	61.8%	60.5%	63.6%	66.4%			
			58.3%	54.1%	52.6%	51.9%	55.6%			
HI			TX					FL		PR
89.1%			75.0%					80.5%		95.0%
79.4%			62.6%					67.9%		83.7%

The demographics of US vaccination



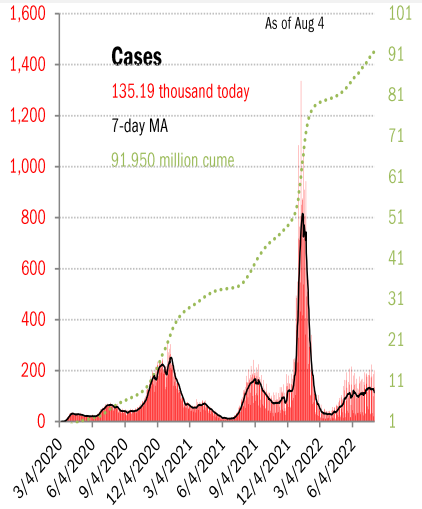


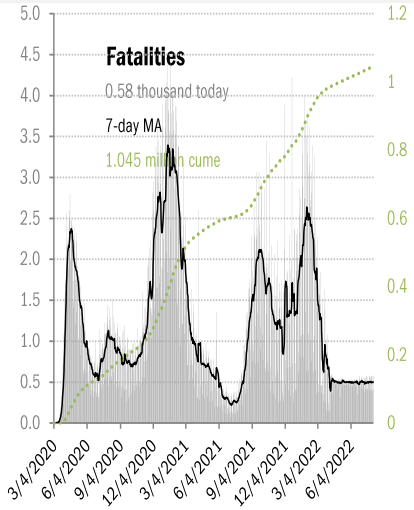


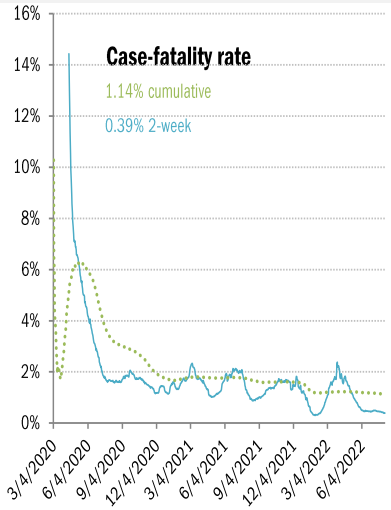
Source: CDC, CDC, Our World in Data, TrendMacro calculations

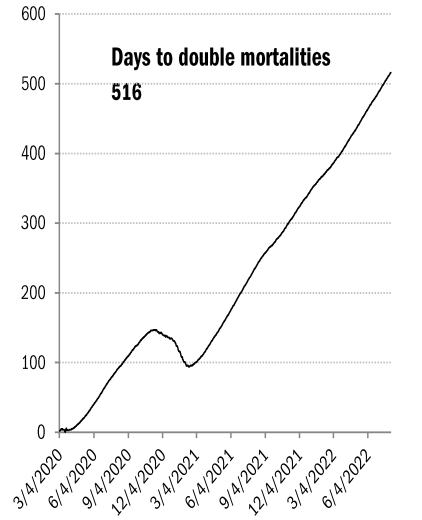
US deep-dive

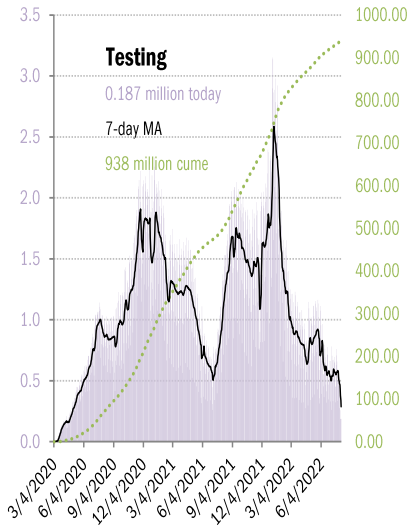
National and state-by-state data do not line up because of different sources

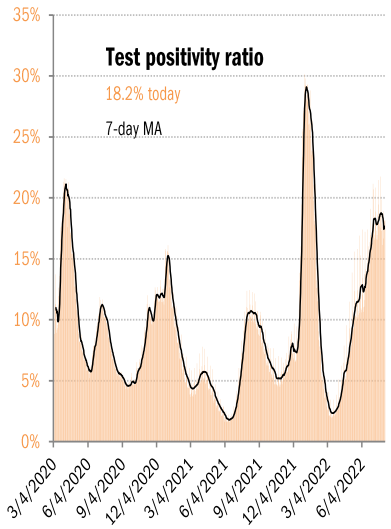


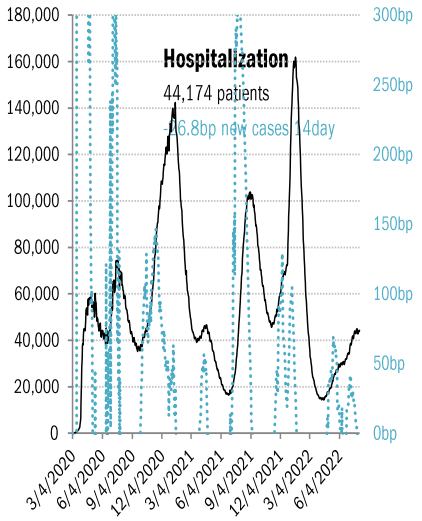


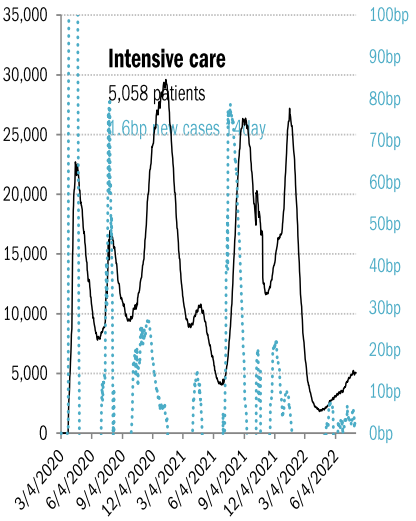


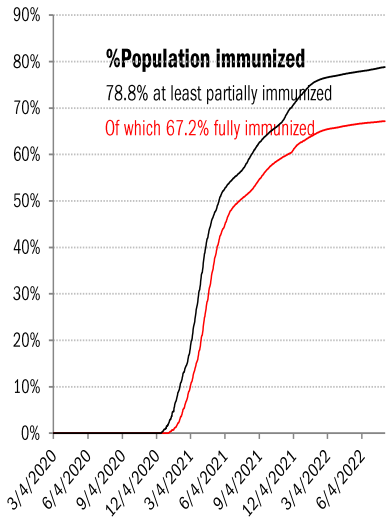












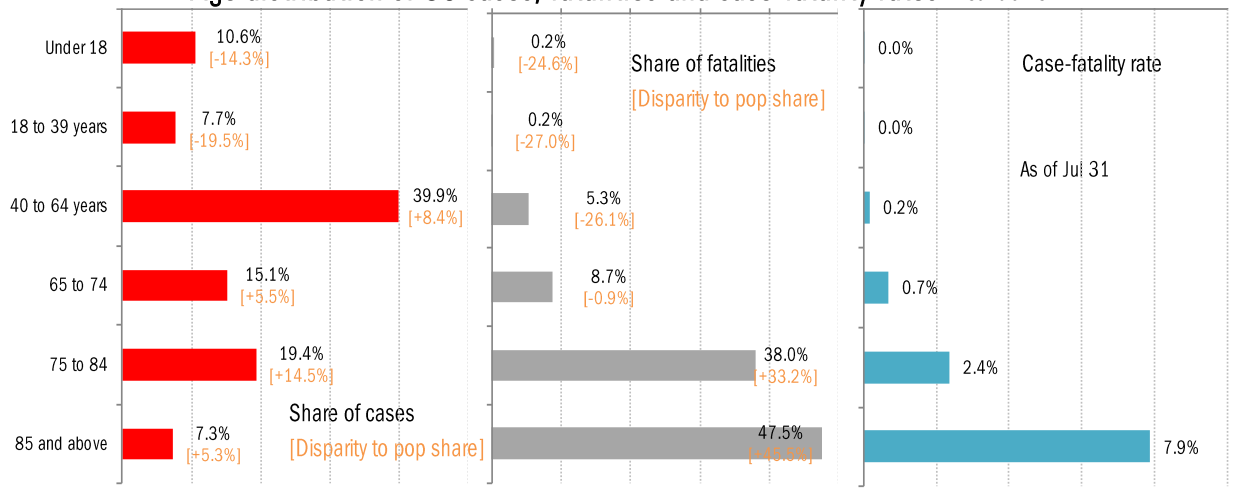
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

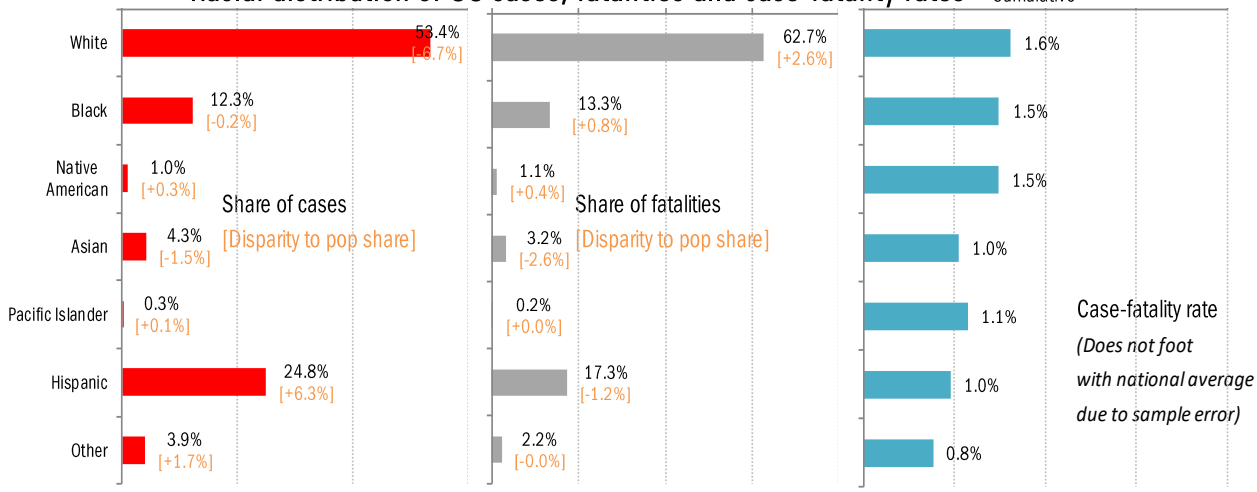
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



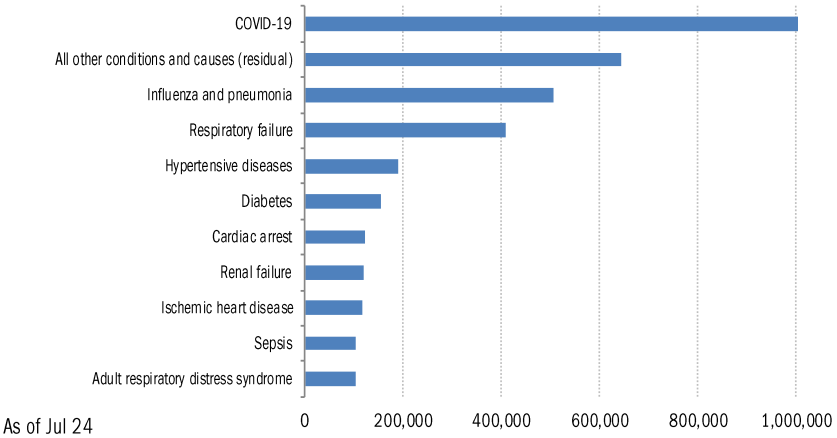
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



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

[The Vaccine Mandate Puts National Security at Risk](#)
James O. Eifert
Wall Street Journal
August 4, 2022

[Experts urge Japan to downgrade COVID to similar class as seasonal flu](#)
Kanako Takahara
Japan Times
August 2, 2022

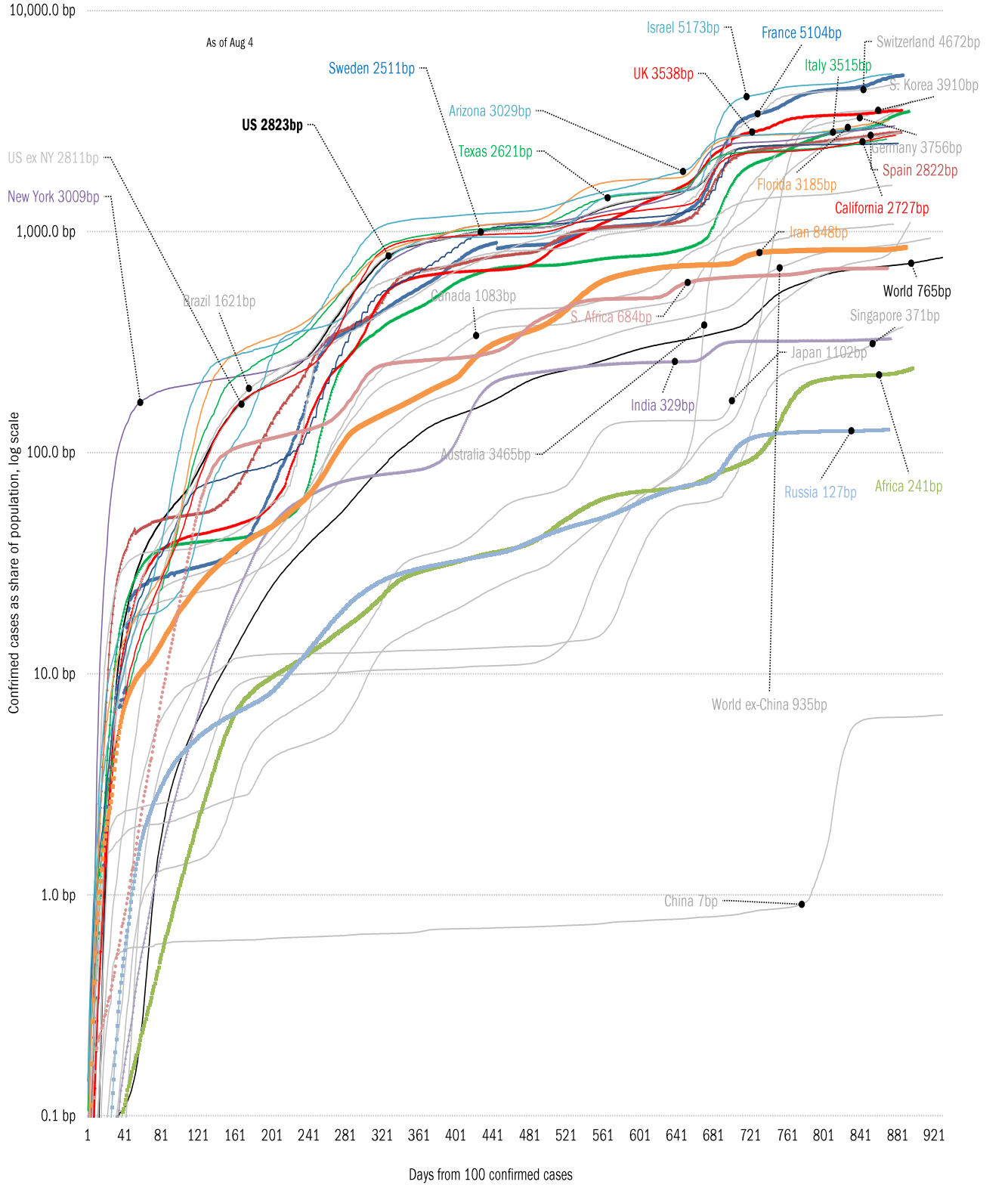
[Japan's biggest COVID wave yet pushes medical system near to its limit](#)
Tomoko Otake
Japan Times
August 3, 2022

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

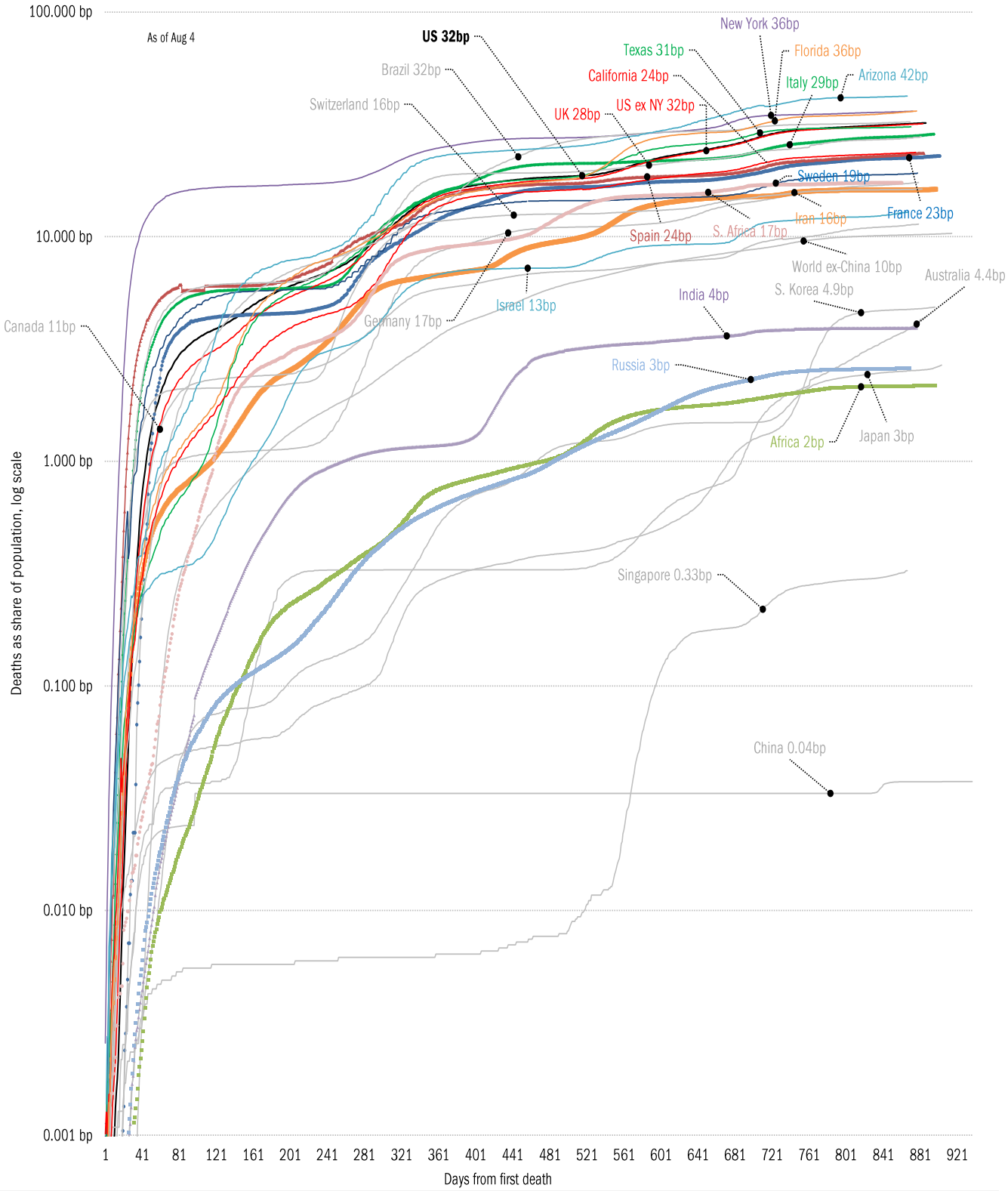
Share of infected population from first day with 100 confirmed cases, log scale



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

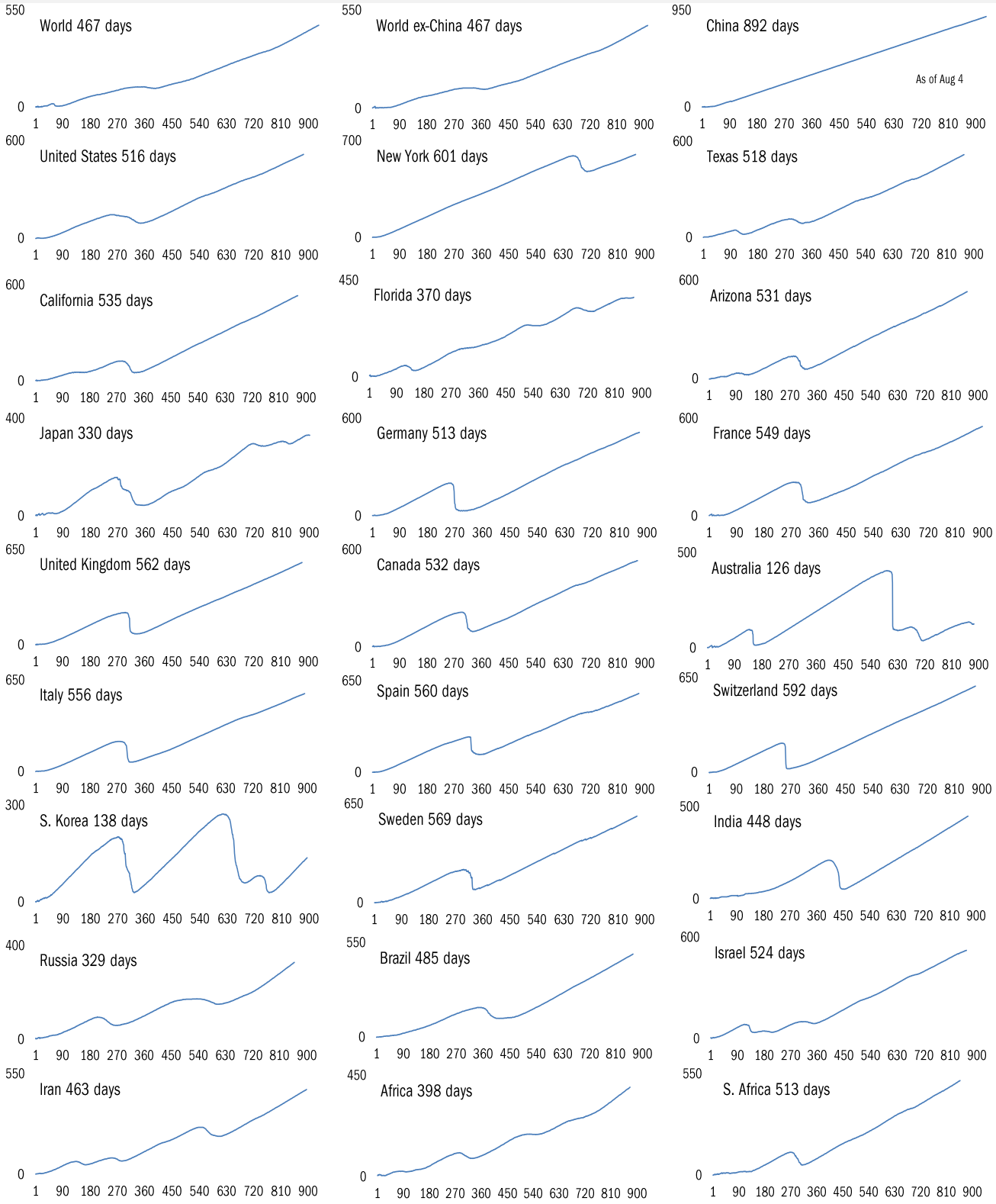


Source: Johns Hopkins, TrendMacro calculations

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

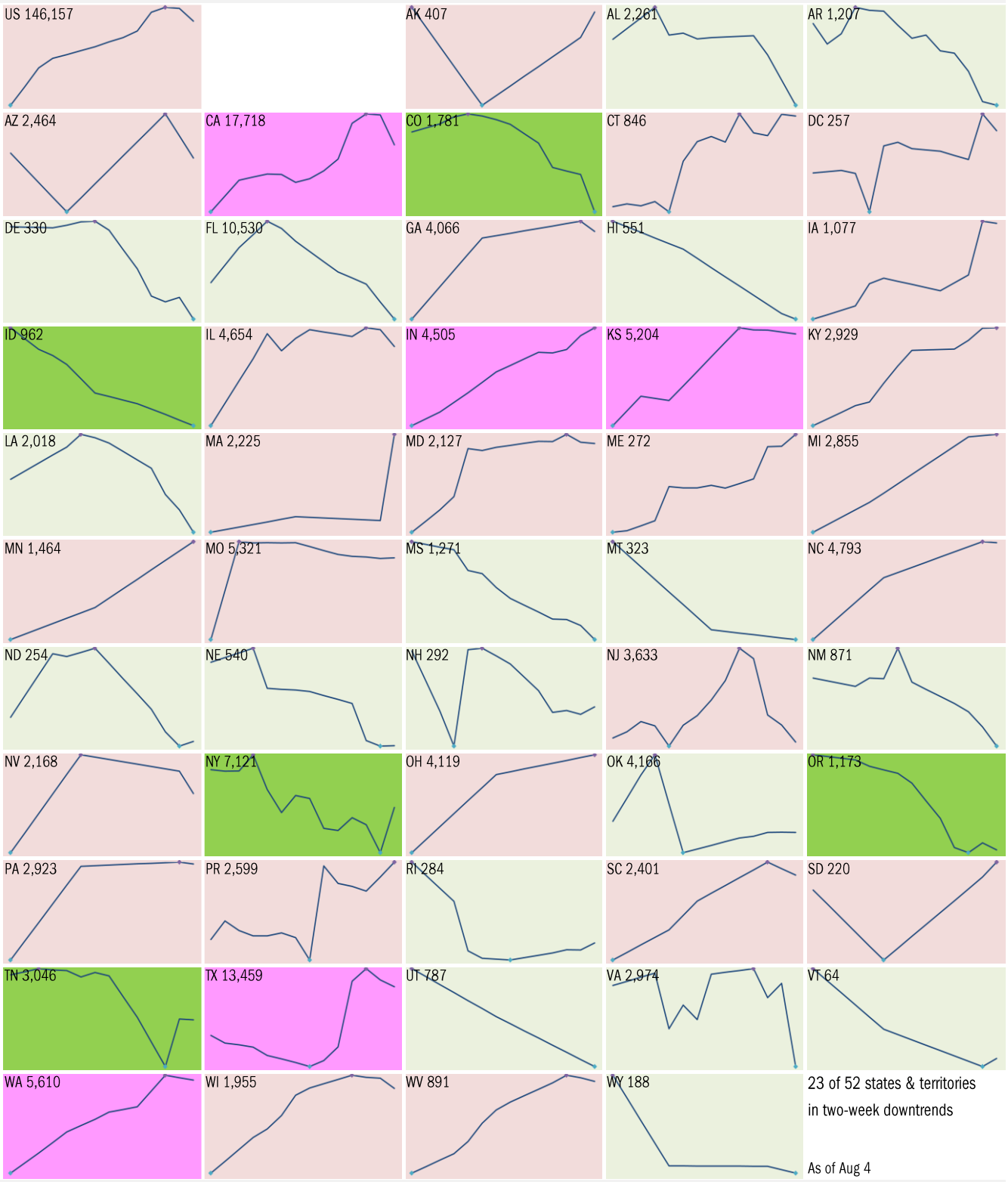


Source: Johns Hopkins, TrendMacro calculations

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

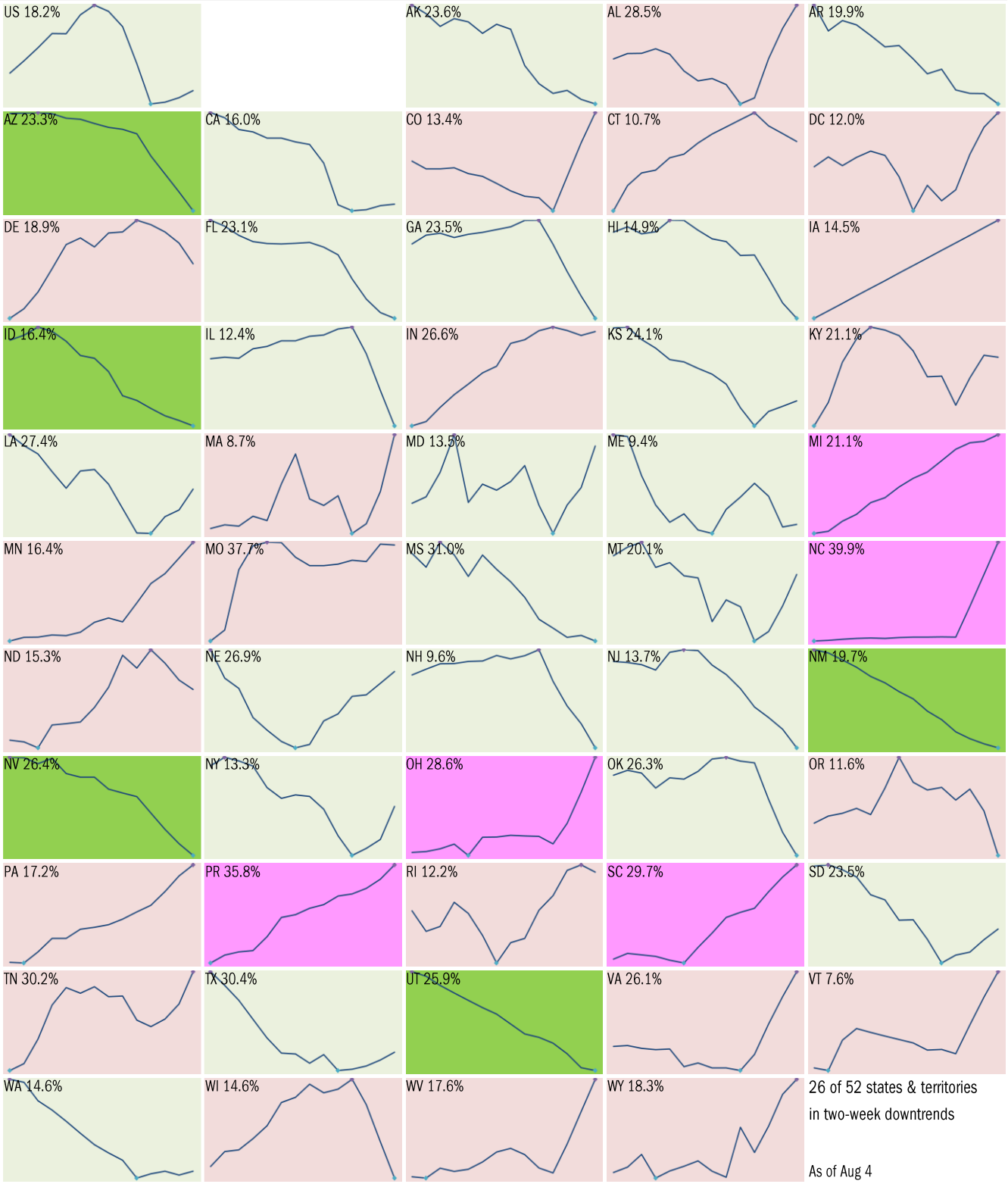


Source: Johns Hopkins, TrendMacro calculations

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

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

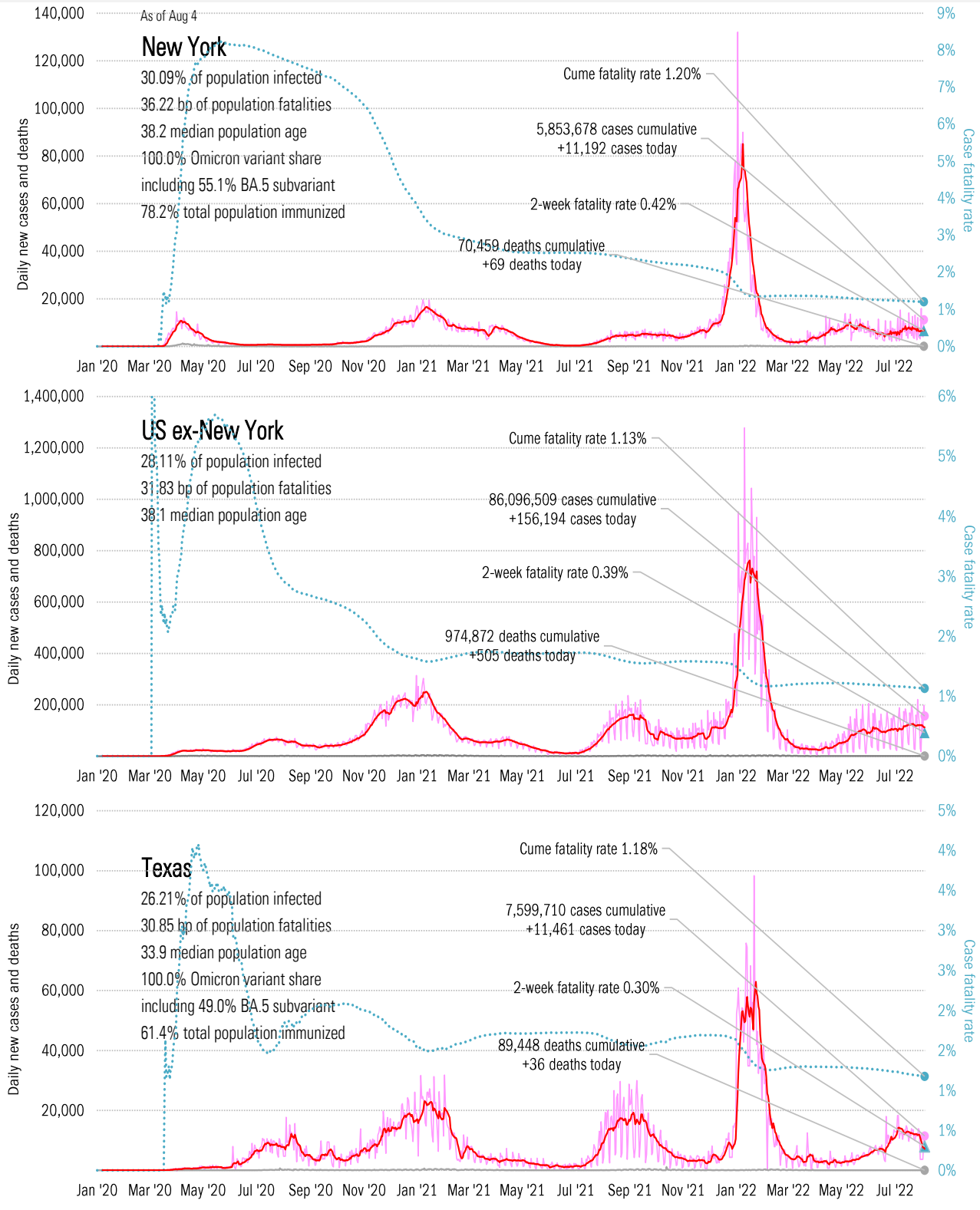
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

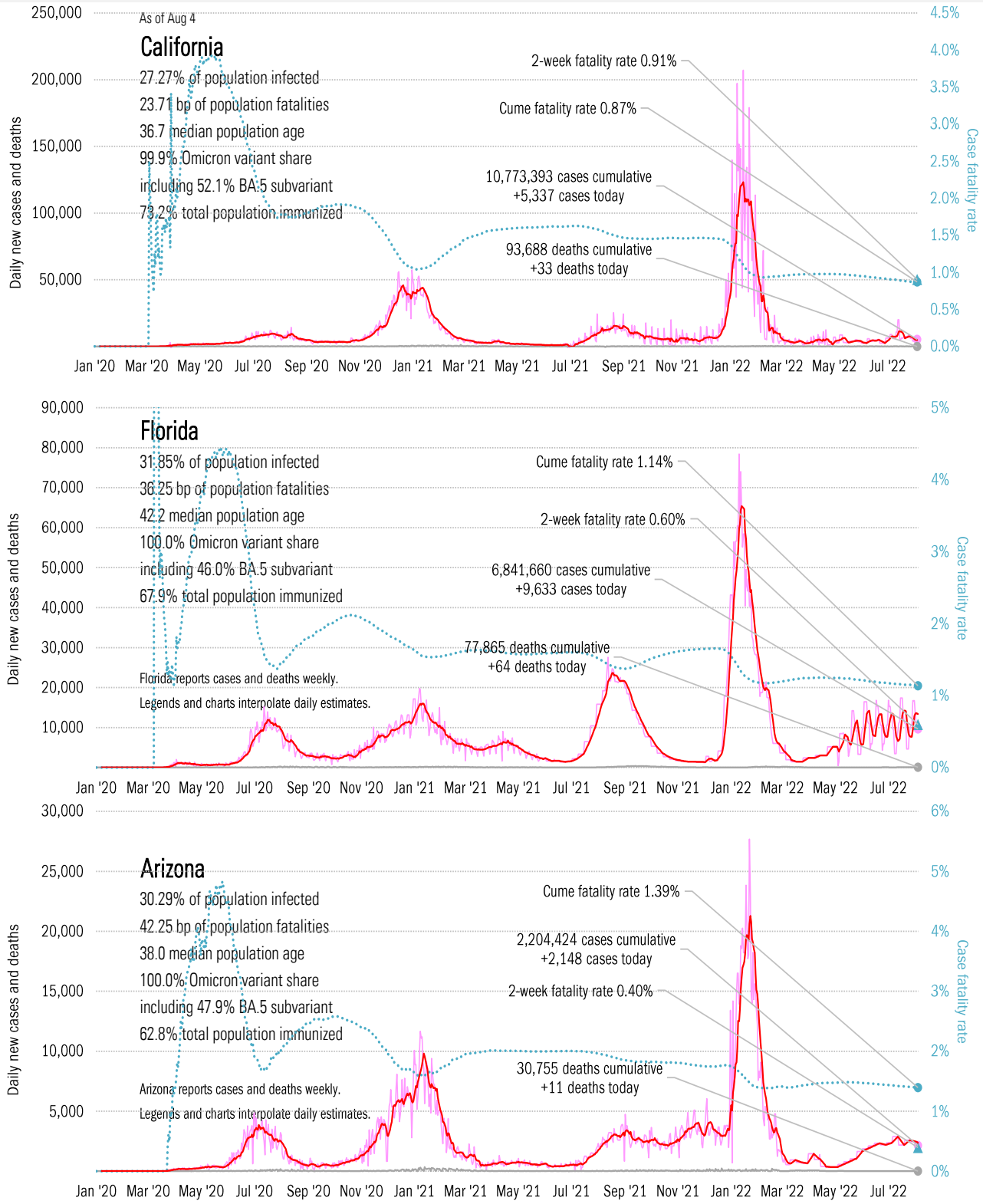
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

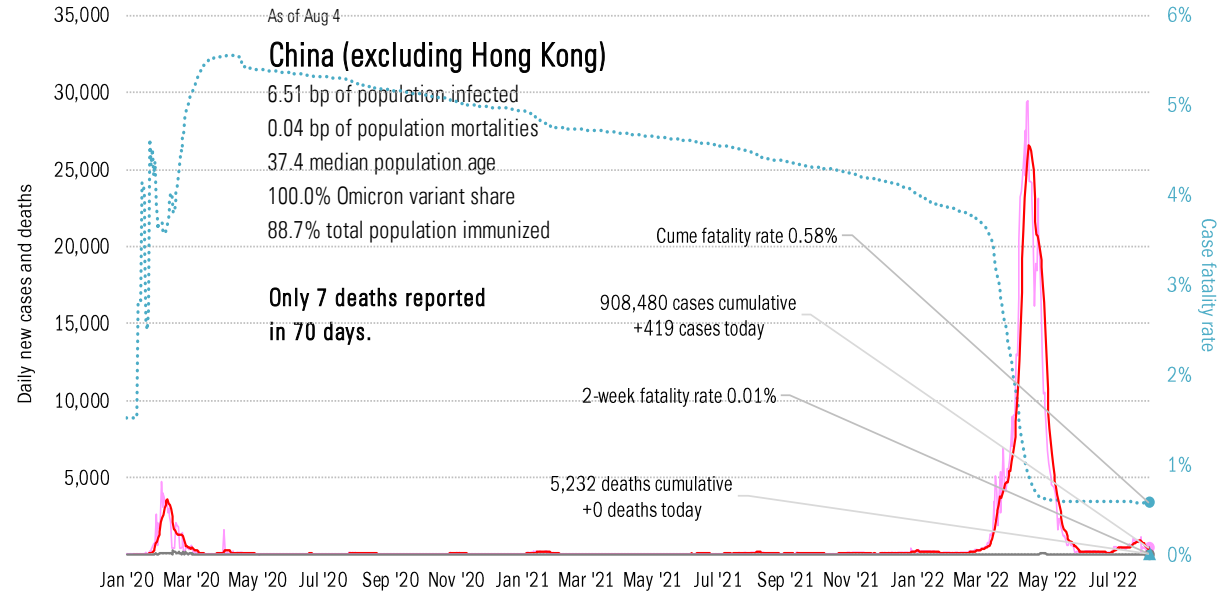
Cases: 7-day average and daily Deaths: Daily

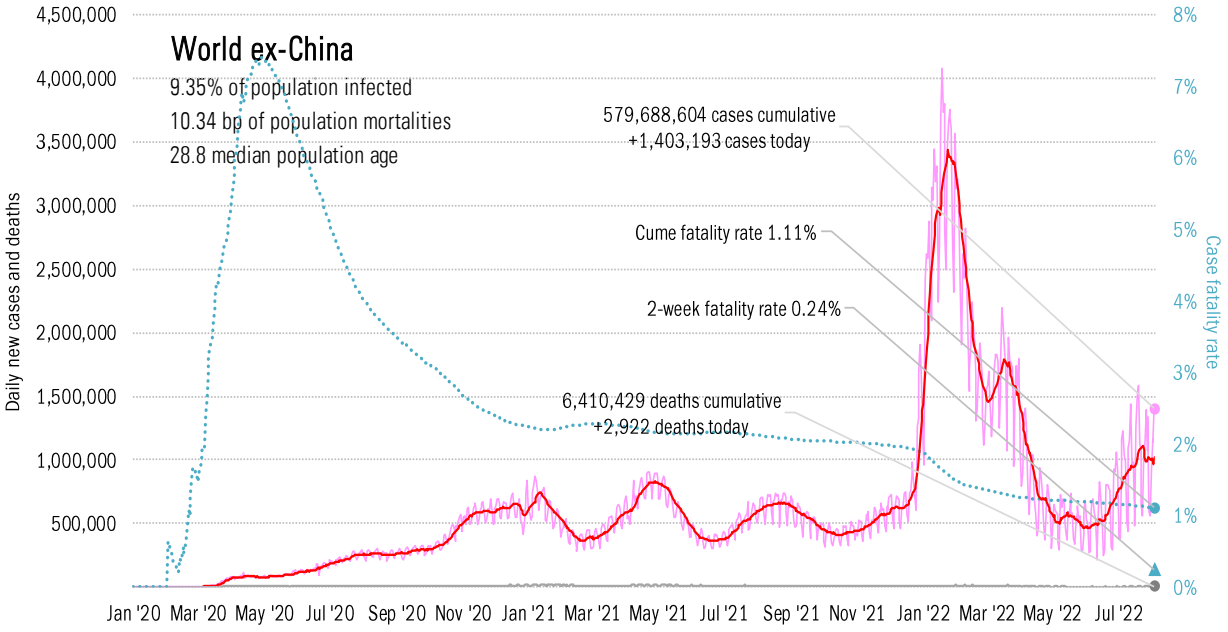


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

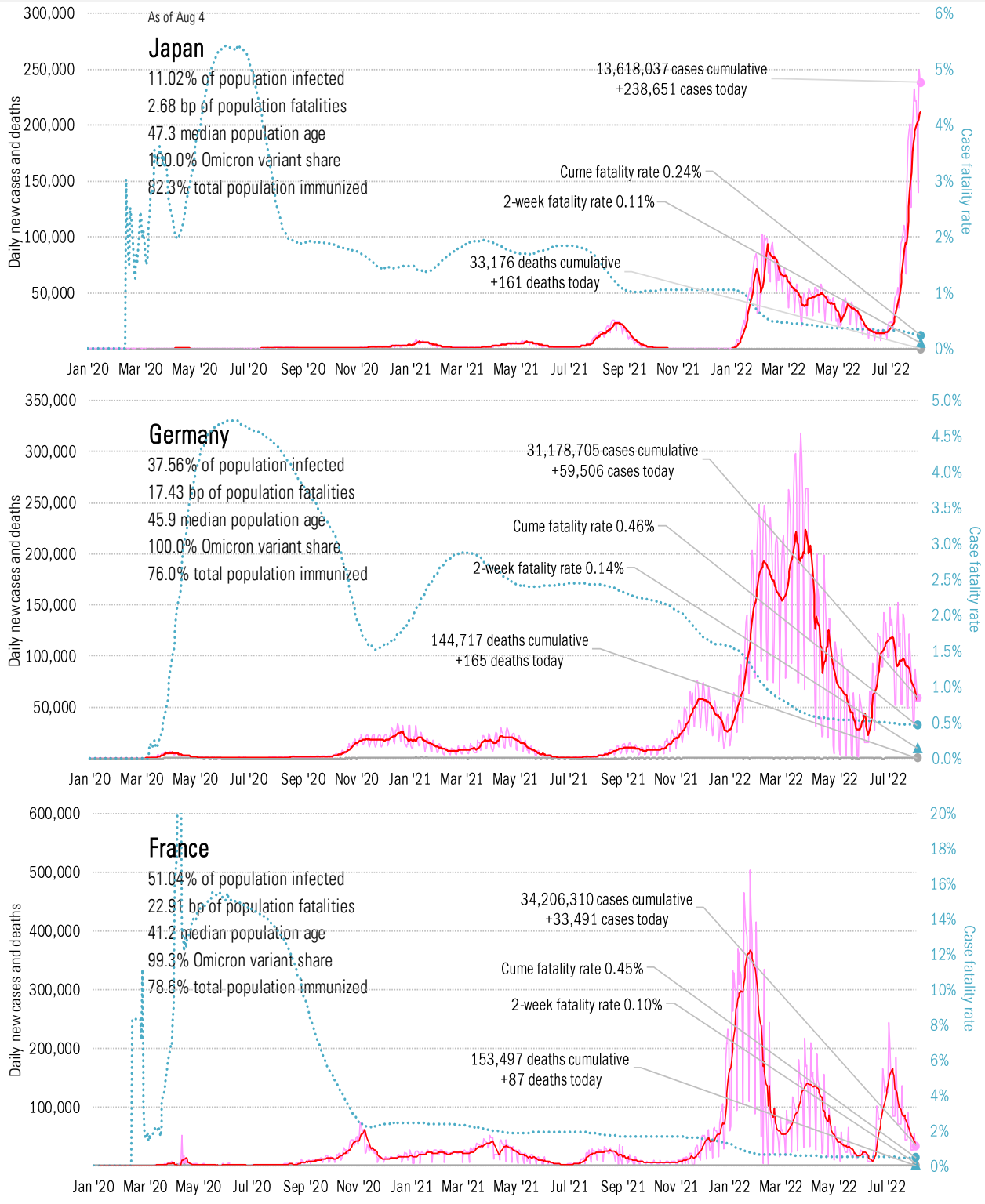




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

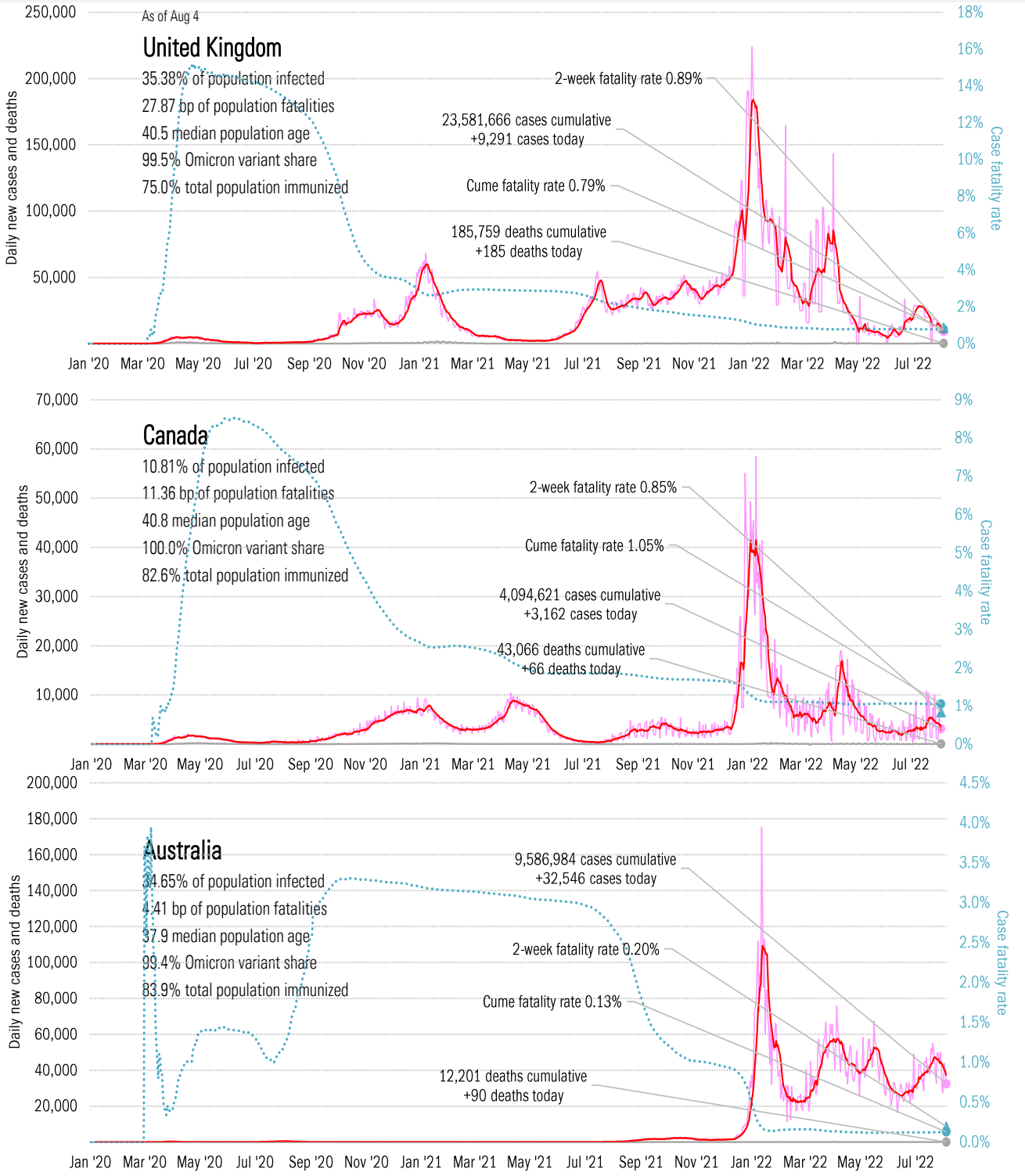
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

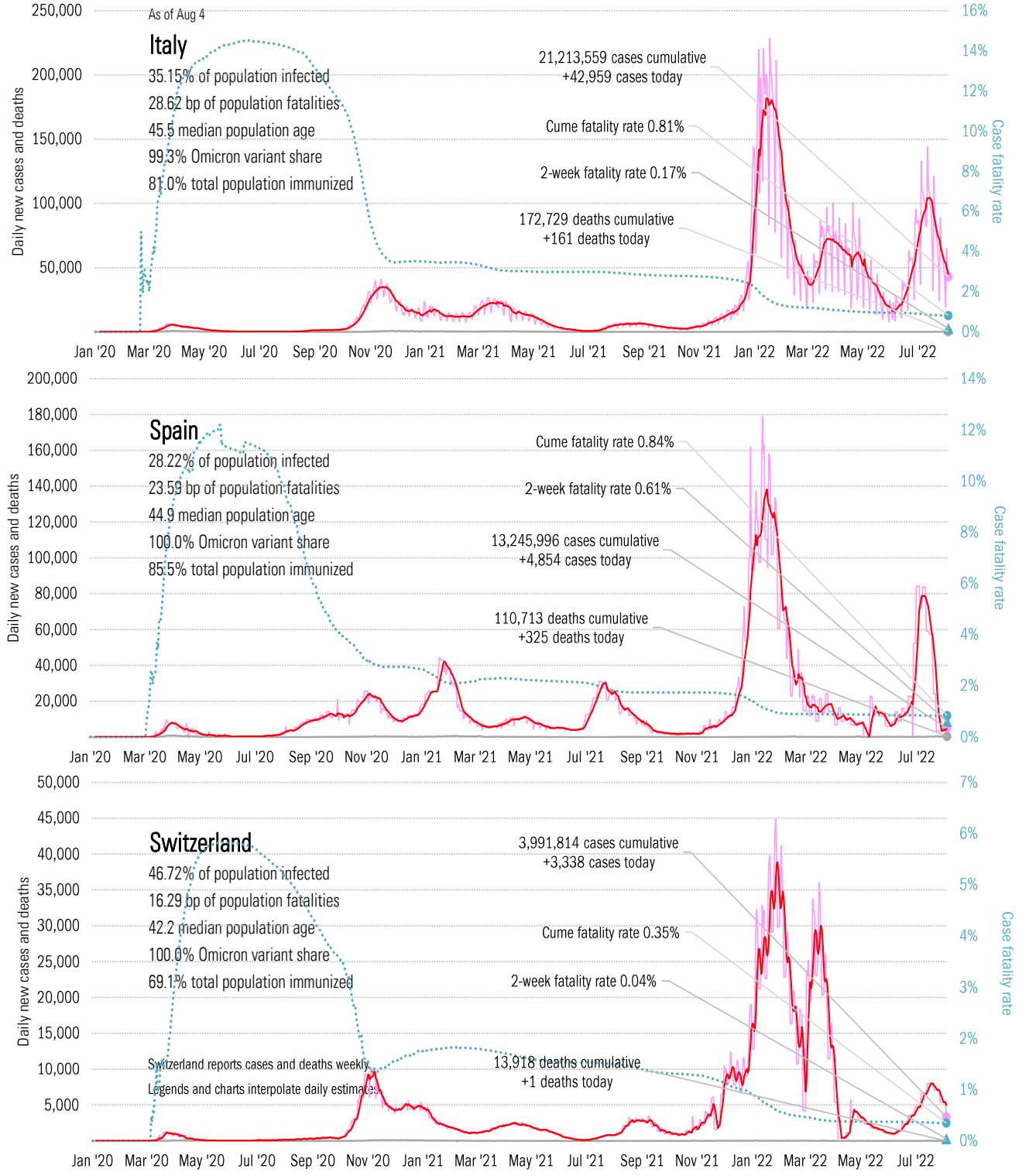
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

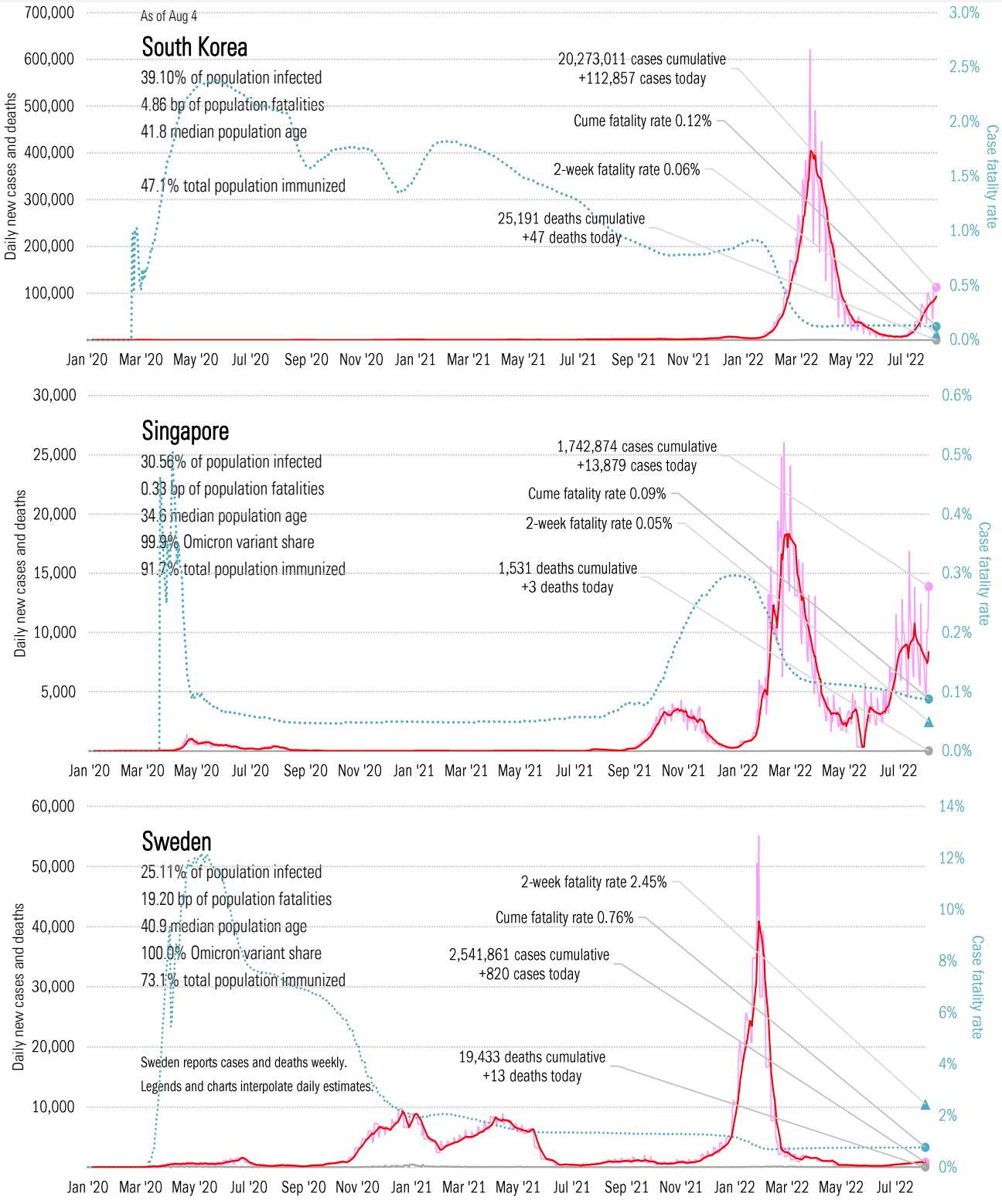
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

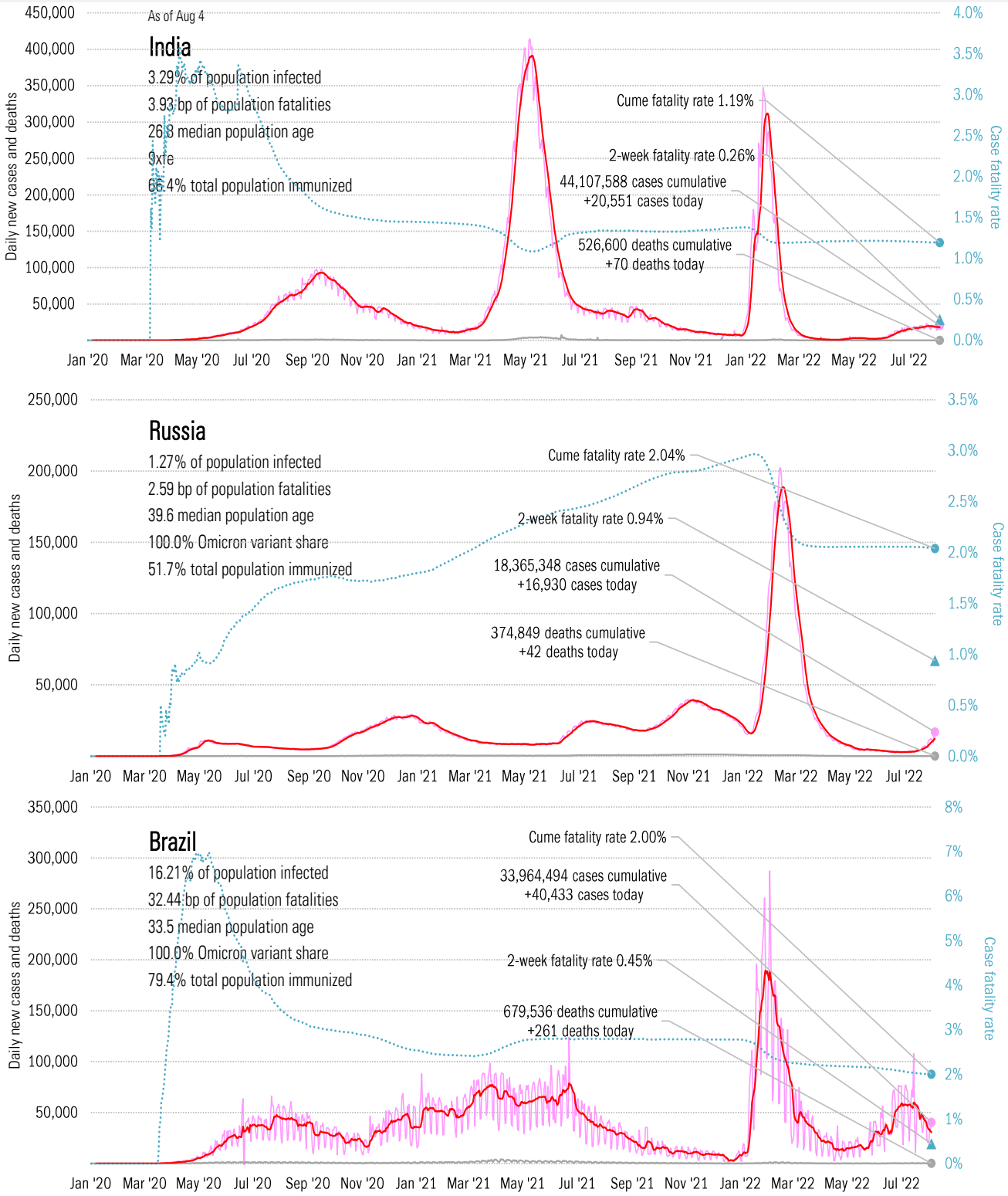
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

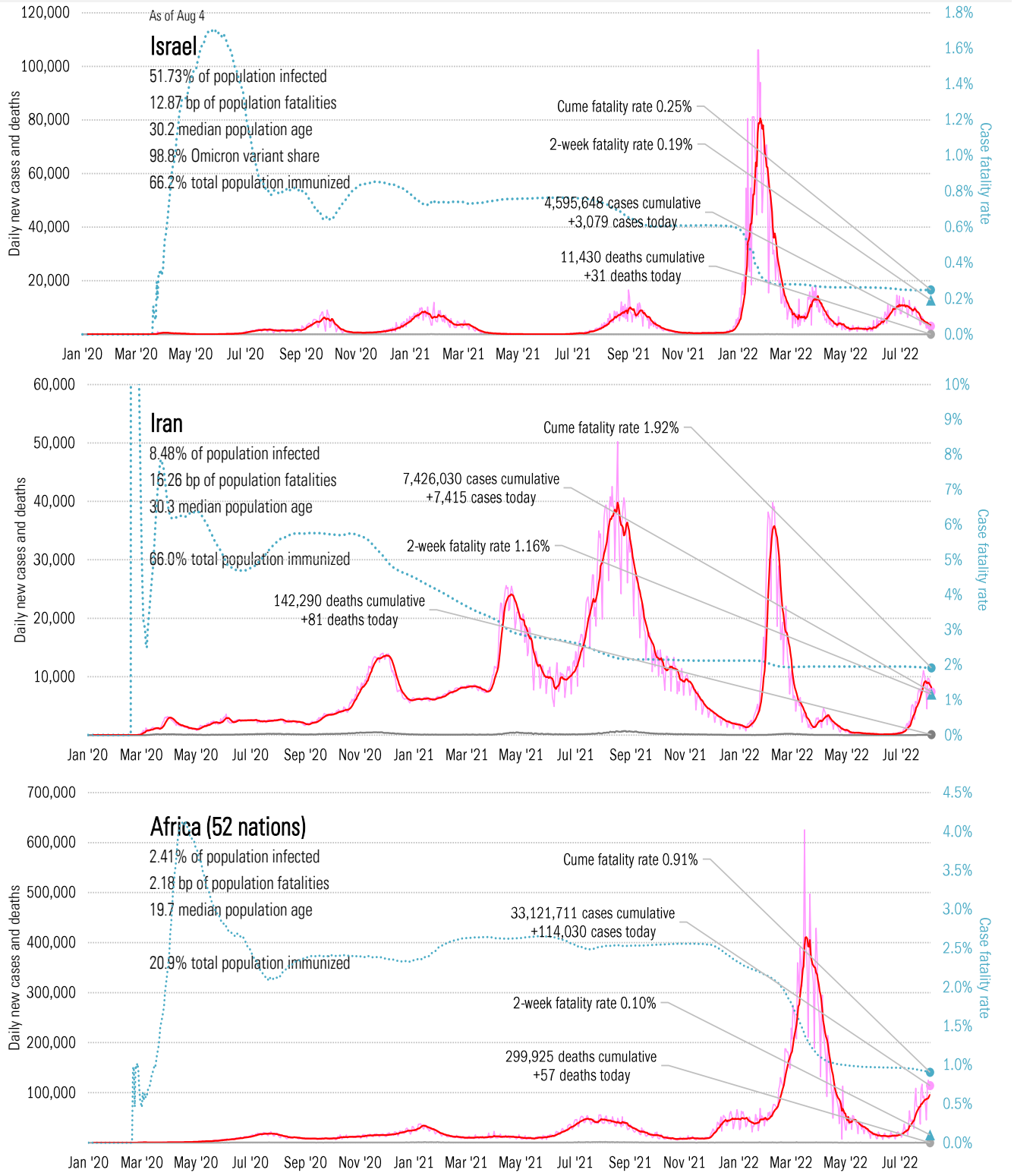
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

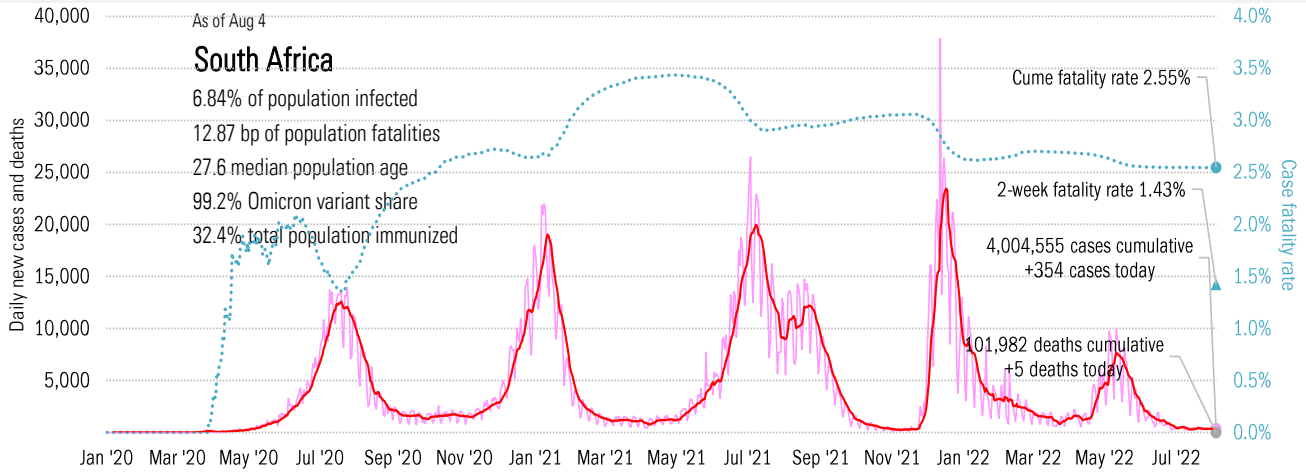
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations