Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

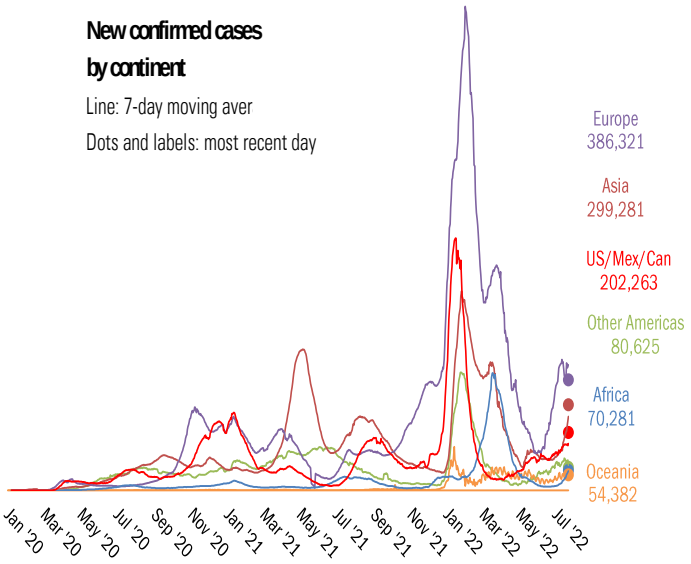
Saturday, July 23, 2022

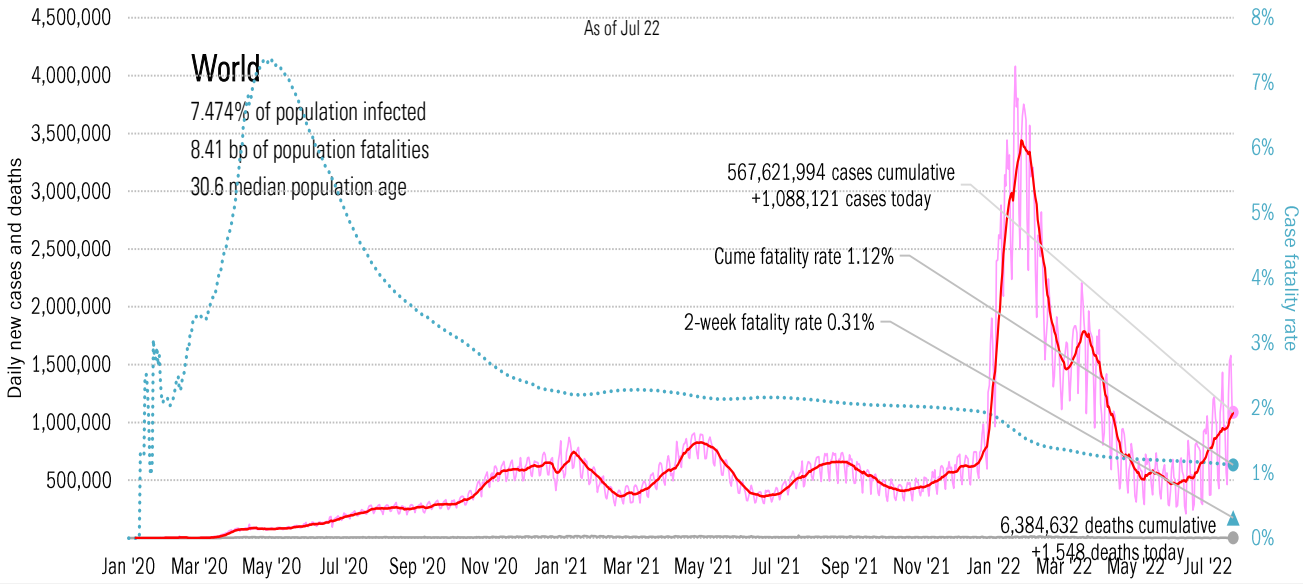
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	234,771	Spain	545
Japan	195,090	United States	496
Germany	92,009	Brazil	280
France	74,738	Italy	155
Spain	72,704	Germany	116
Italy	71,667	France	113
Korea, South	68,521	Australia	106
Brazil	49,799	Mexico	89
Australia	46,310	Taiwan*	86
Mexico	32,175	India	67
	937,784		2,053
World	1,088,121	World	1,548
Top ten	86%	Top ten	133%





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

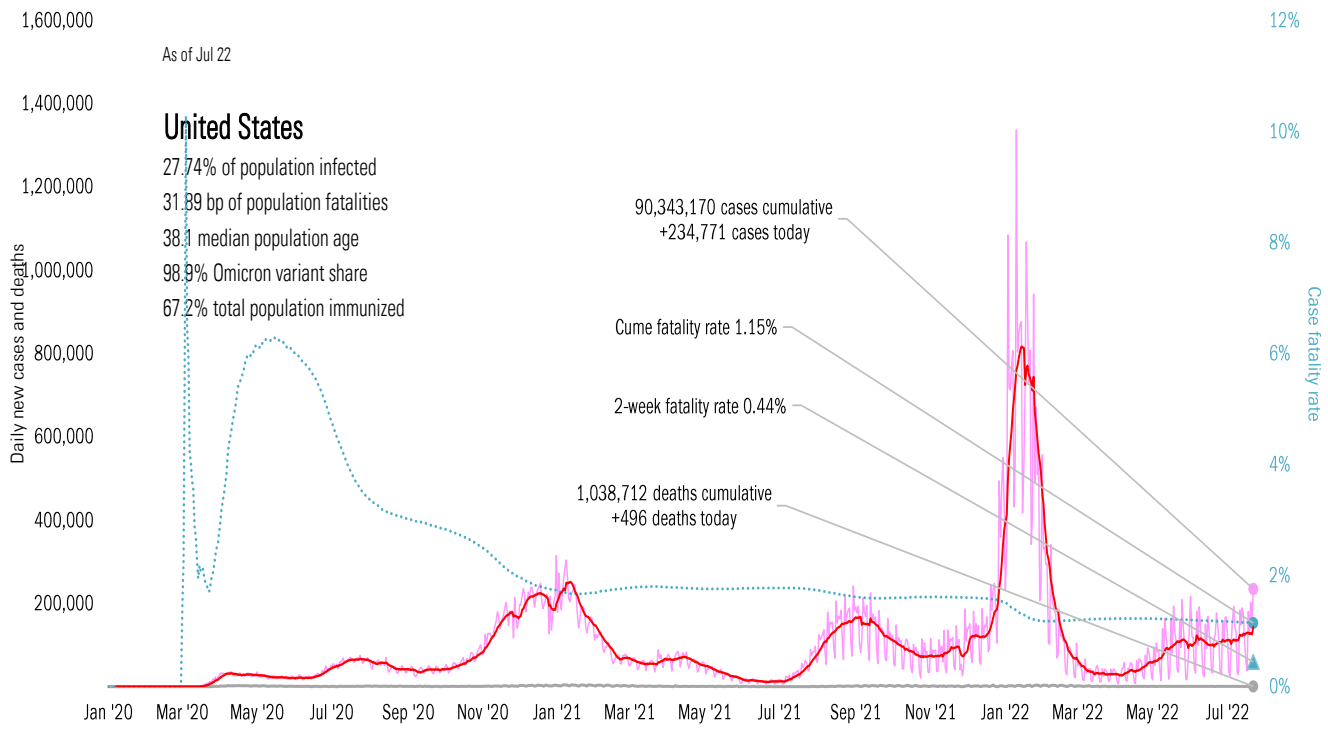
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	56,207	CA	133	TX	668	CA	10,580,256	CA	93,209	TX	516,551	RI	91%	VT	88%
OH	26,610	FL	62	NY	425	TX	7,451,041	TX	89,076	CA	465,318	MA	87%	RI	88%
TX	13,543	MO	53	GA	282	FL	6,698,882	FL	77,039	FL	458,689	MN	86%	TX	84%
NY	12,615	TX	40	MO	172	NY	5,766,596	NY	70,096	NY	278,240	WA	85%	MA	84%
MO	11,648	IN	31	PA	229	IL	3,528,282	PA	46,047	GA	214,150	DE	85%	AL	83%
MA	11,525	OR	26	NC	198	PA	3,058,316	OH	38,981	OH	203,858	MO	84%	WA	82%
MN	9,500	NY	23	SC	112	NC	2,949,198	GA	38,933	PA	190,690	GA	84%	NM	82%
KS	7,444	WA	22	KY	131	OH	2,918,366	IL	38,812	IL	173,208	MD	83%	AK	81%
WA	5,934	NM	19	MI	137	GA	2,721,391	MI	37,291	MI	152,404	MI	83%	GA	81%
IL	5,276	MS	14	AR	85	MI	2,652,659	NJ	34,206	KY	138,062	WV	82%	NC	81%
	160,302		423		2,439		48,324,987		563,690		2,791,170				
All states	234,771		496		6,804	All states	90,343,170		1,038,712		5,066,762	All states	70%		67%
Top ten	68%		85%		36%	Top ten	53%		55%		55%	Median	78%		74%

Some states not reporting

Five most improved US states

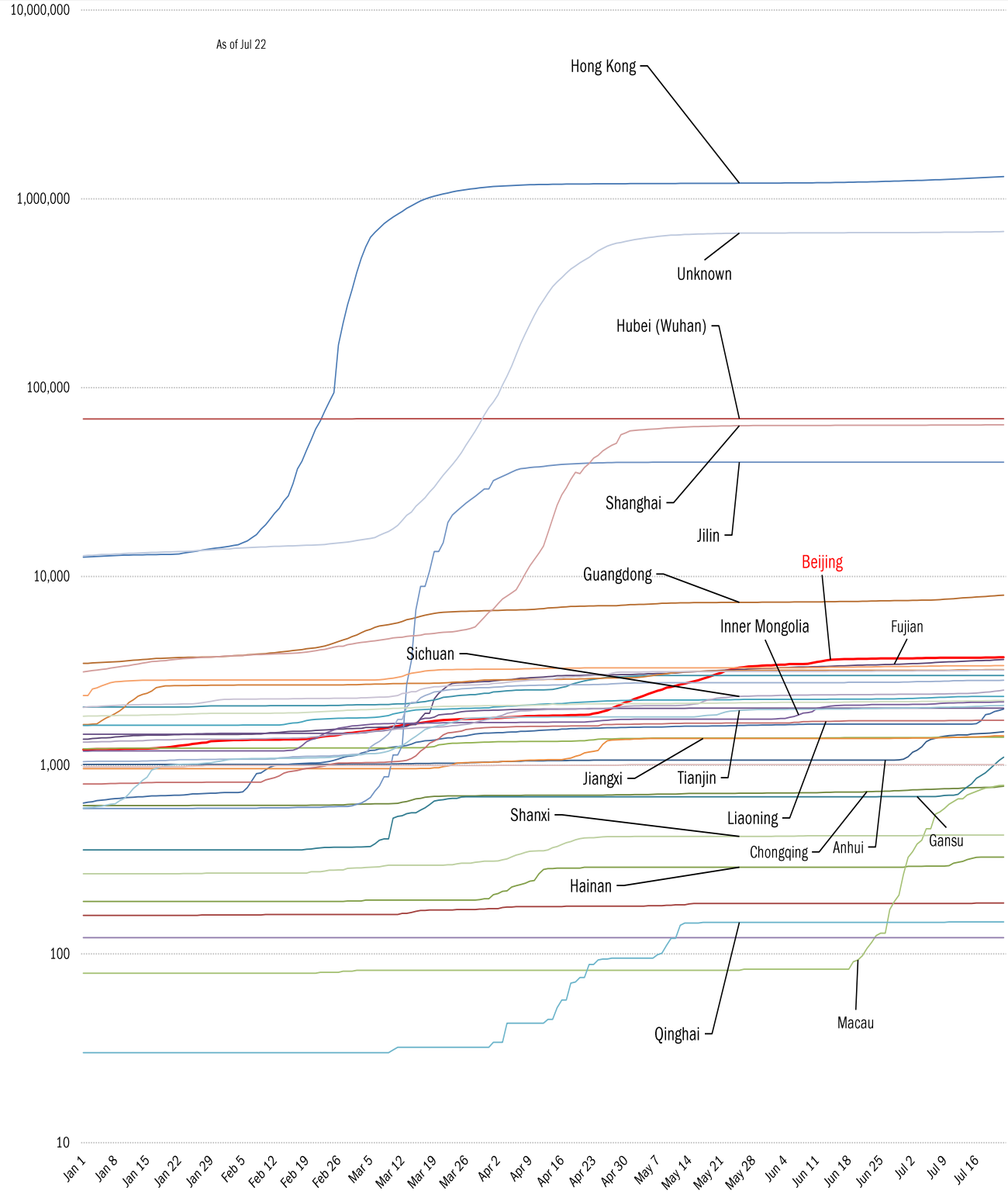
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
FL	-6,138	MA	-59	VA	-62
CO	-4,892	MN	-37	MA	-47
IL	-1,360	OK	-27	MD	-42
LA	-785	NM	-15	NJ	-28
MS	-490	UT	-15	MN	-25



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

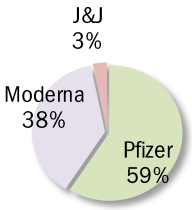
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	616,635,212				+0.323 million
of which boosters	109,477,330				+0.068 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	269,233,447	81%	229,268,362	69%	+0.041 million
Age 12 to 17	18,017,753	71%	15,409,473	61%	+0.003 million
Age 18 to 64	180,243,678	89%	152,968,762	75%	+0.022 million
Age 65 and over	59,543,060	100%	52,083,438	95%	+0.009 million

Immunity	Full	Partial
US	67.2%	78.7%
UK	74.8%	79.8%
France	78.6%	80.8%
Spain	85.5%	86.9%
Germany	76.0%	77.6%
Italy	81.0%	85.8%
Australia	83.8%	86.3%
Israel	66.2%	72.3%
Canada	82.5%	86.0%
Japan	82.2%	83.3%
Africa	20.3%	25.9%
India	65.9%	72.4%
Brazil	79.2%	86.3%
China	88.7%	91.0%

Global data differs due to sources, timing



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

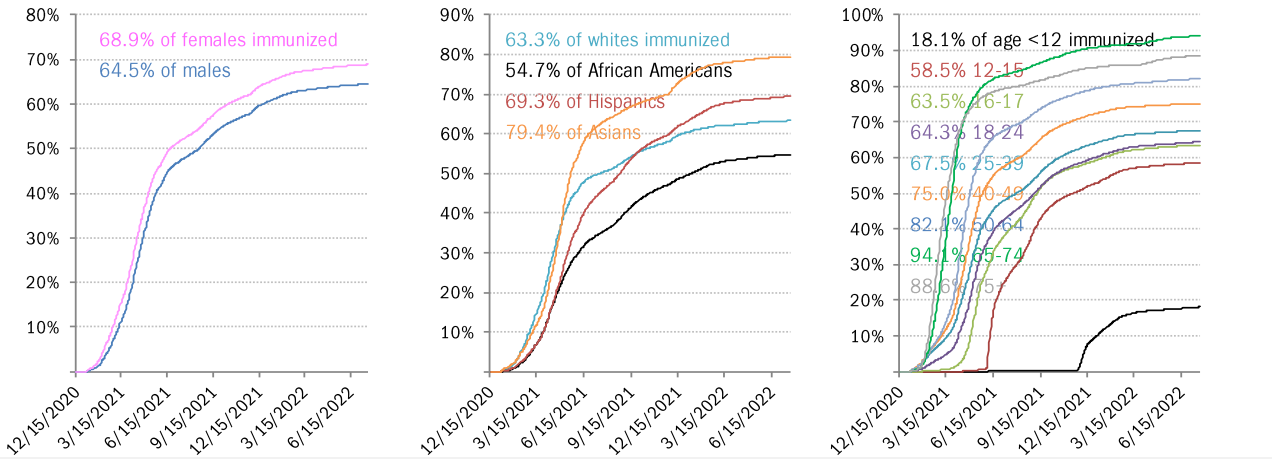
"Immunity" = two doses

Best
Middle
Worst

As of Jul 21

AK					WI					ME
71.0%					72.7%					92.4%
62.9%					66.3%					80.8%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
82.2%	62.6%	66.0%	66.5%	76.1%	76.7%	67.6%		91.4%	95.0%	90.0%
73.2%	56.0%	57.4%	56.2%	69.9%	69.2%	60.7%		78.0%	82.2%	71.8%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
78.9%	76.5%	58.9%	78.1%	68.7%	62.8%	64.0%	86.7%	91.8%	95.0%	
70.4%	61.6%	51.5%	62.8%	62.6%	56.6%	59.0%	69.9%	76.7%	80.2%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
83.4%	73.1%	80.7%	71.1%	67.1%	67.0%	65.8%	87.2%	88.1%	95.0%	95.0%
73.0%	65.0%	71.0%	64.2%	56.9%	58.0%	58.3%	74.0%	76.7%	80.3%	84.1%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	74.7%	89.6%	73.5%	67.6%	62.9%	86.4%	68.7%	95.0%	84.6%	
	62.6%	72.3%	62.8%	55.2%	55.1%	62.9%	57.9%	76.9%	70.3%	
			OK	LA	MS	AL	GA			
			72.2%	61.7%	60.4%	63.5%	66.3%			
			58.2%	54.1%	52.5%	51.8%	55.6%			
HI			TX					FL		PR
89.0%			74.8%					80.4%		95.0%
79.3%			62.5%					67.8%		83.7%

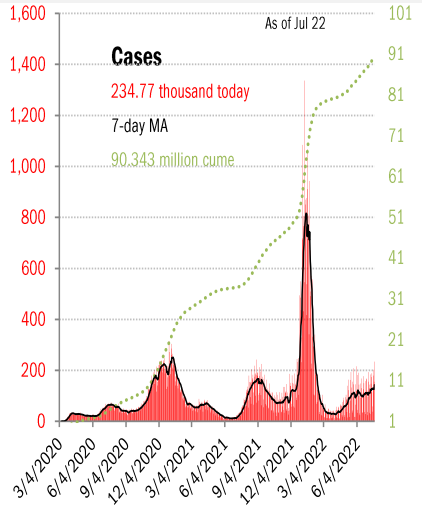
The demographics of US vaccination

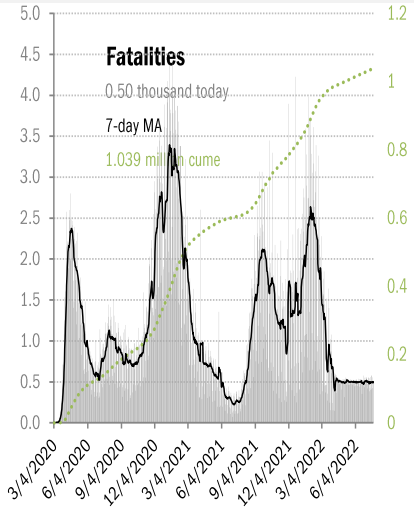


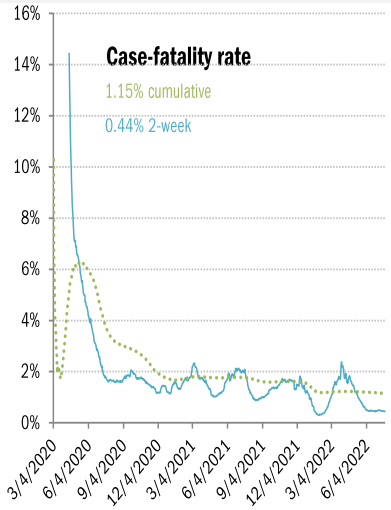
Source: CDC, CDC, Our World in Data, TrendMacro calculations

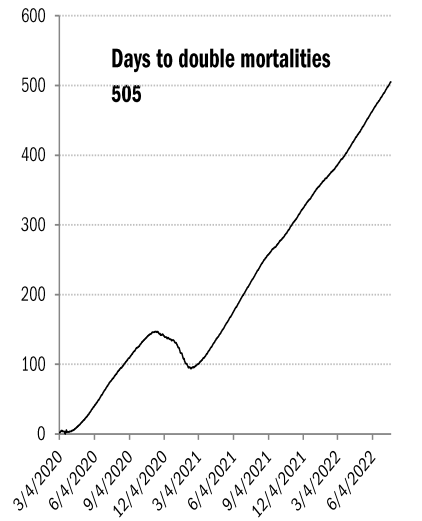
US deep-dive

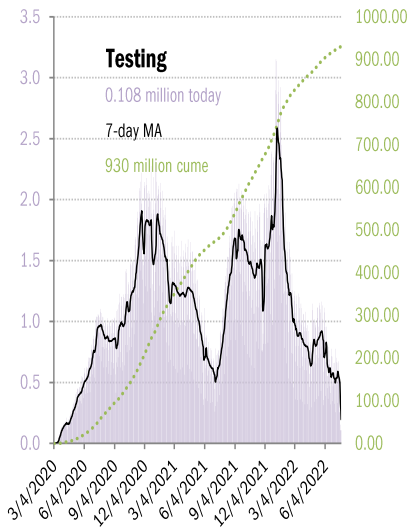
National and state-by-state data do not line up because of different sources

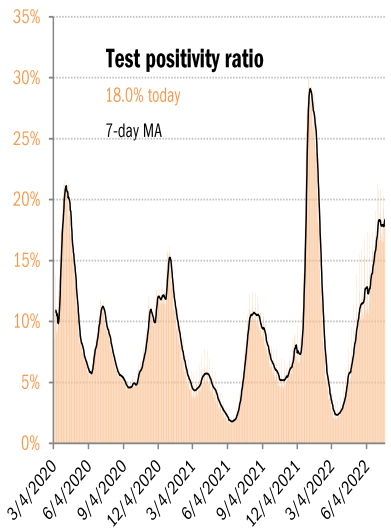


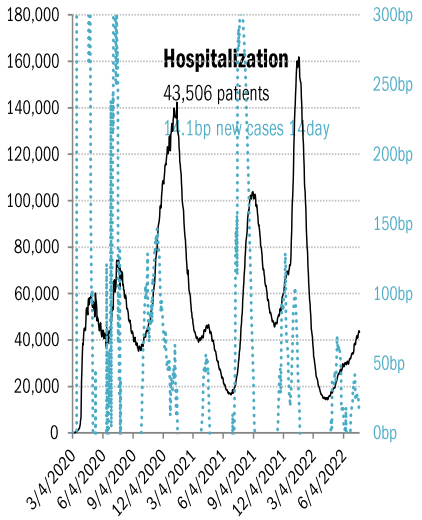


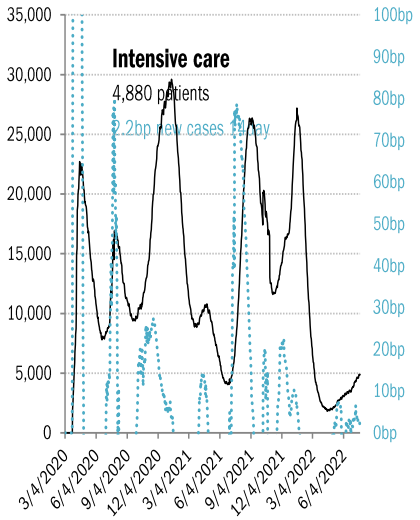


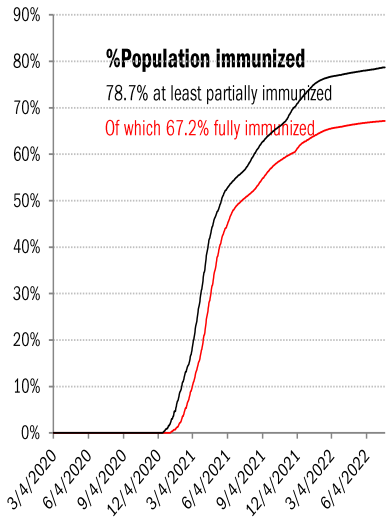












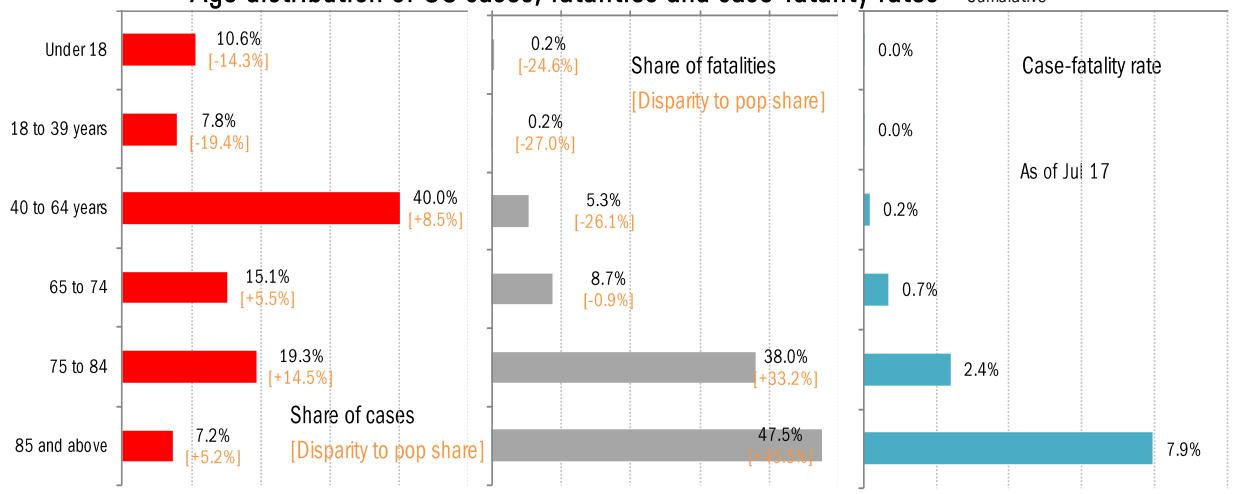
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

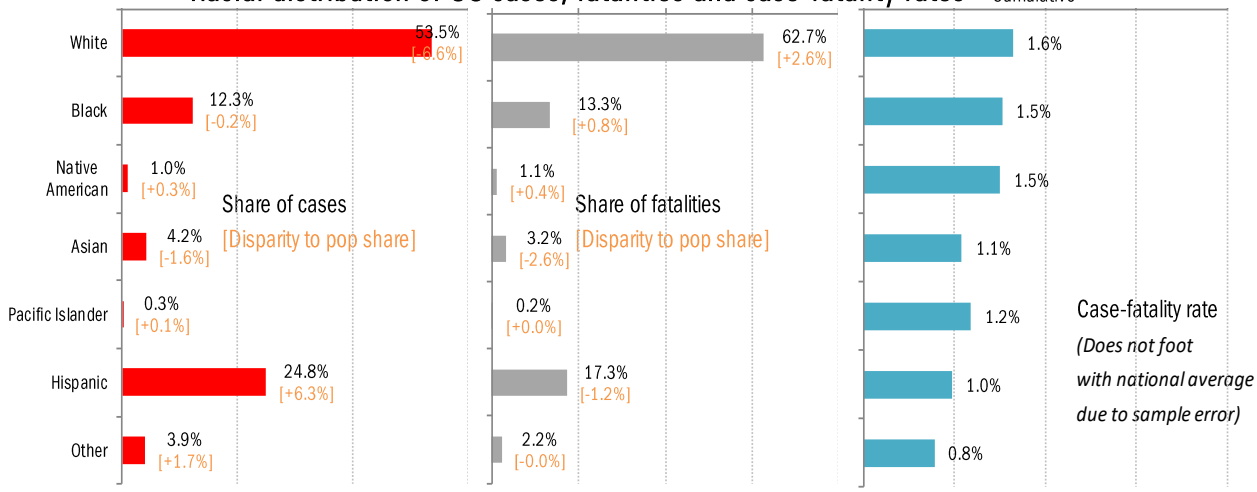
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



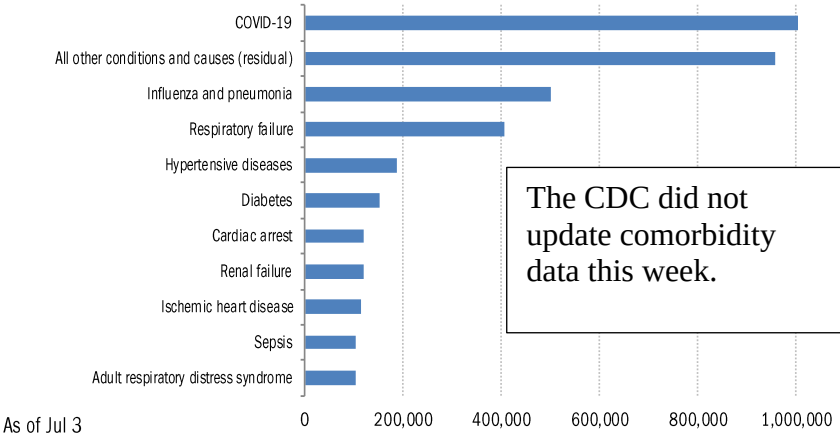
Racial distribution of US cases, fatalities and case-fatality rates

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

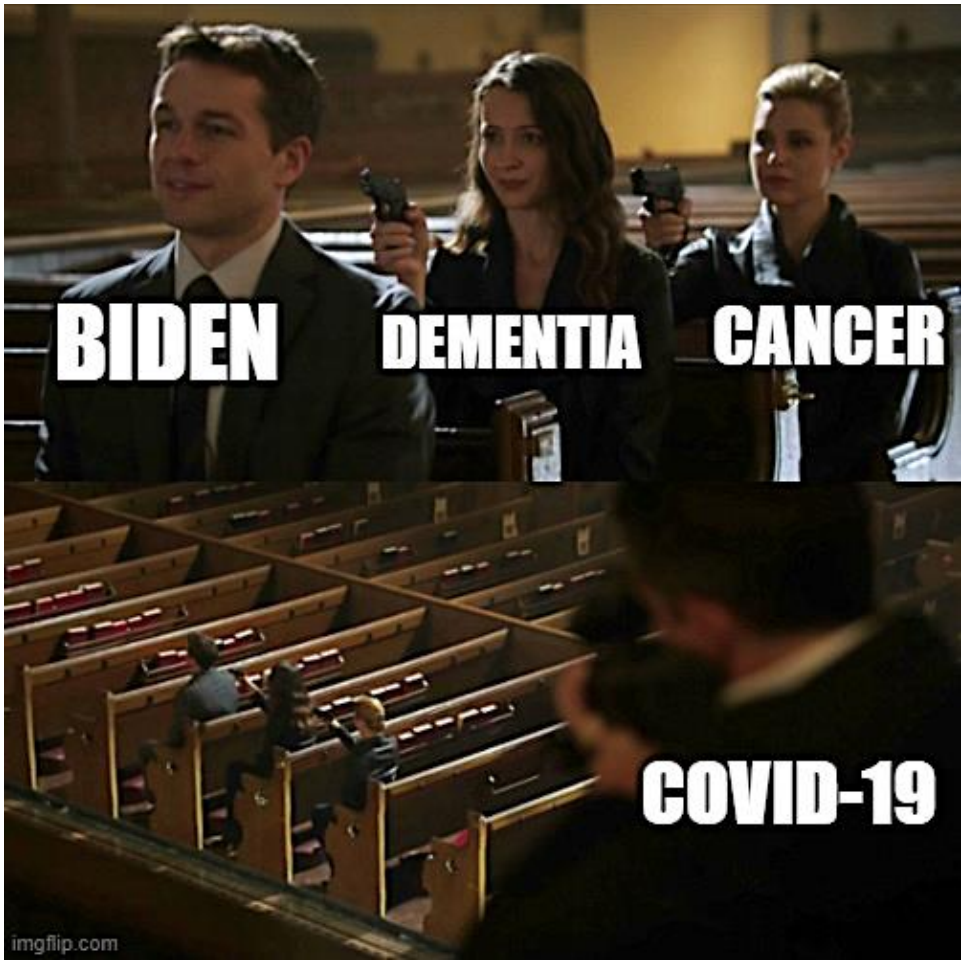
As COVID wave grows, Japan beefs up response but won't limit business activities
Tomoko Otake, Kanako Takahara and Will Fee
Japan Times
July 22, 2022

Electricity Is the New Medical Miracle
Allysia Finley
Wall Street Journal
July 22, 2022

New Covid variants threaten China's mRNA vaccine hopes
Eleanor Olcott
Financial Times
July 6, 2022

Study CDC Relied Upon for School Mask Mandates Was Authored by LA County Public Health Director's Daughter - Who's Also Not an MD
Jennifer Van Laar
Red State
July 20, 2022

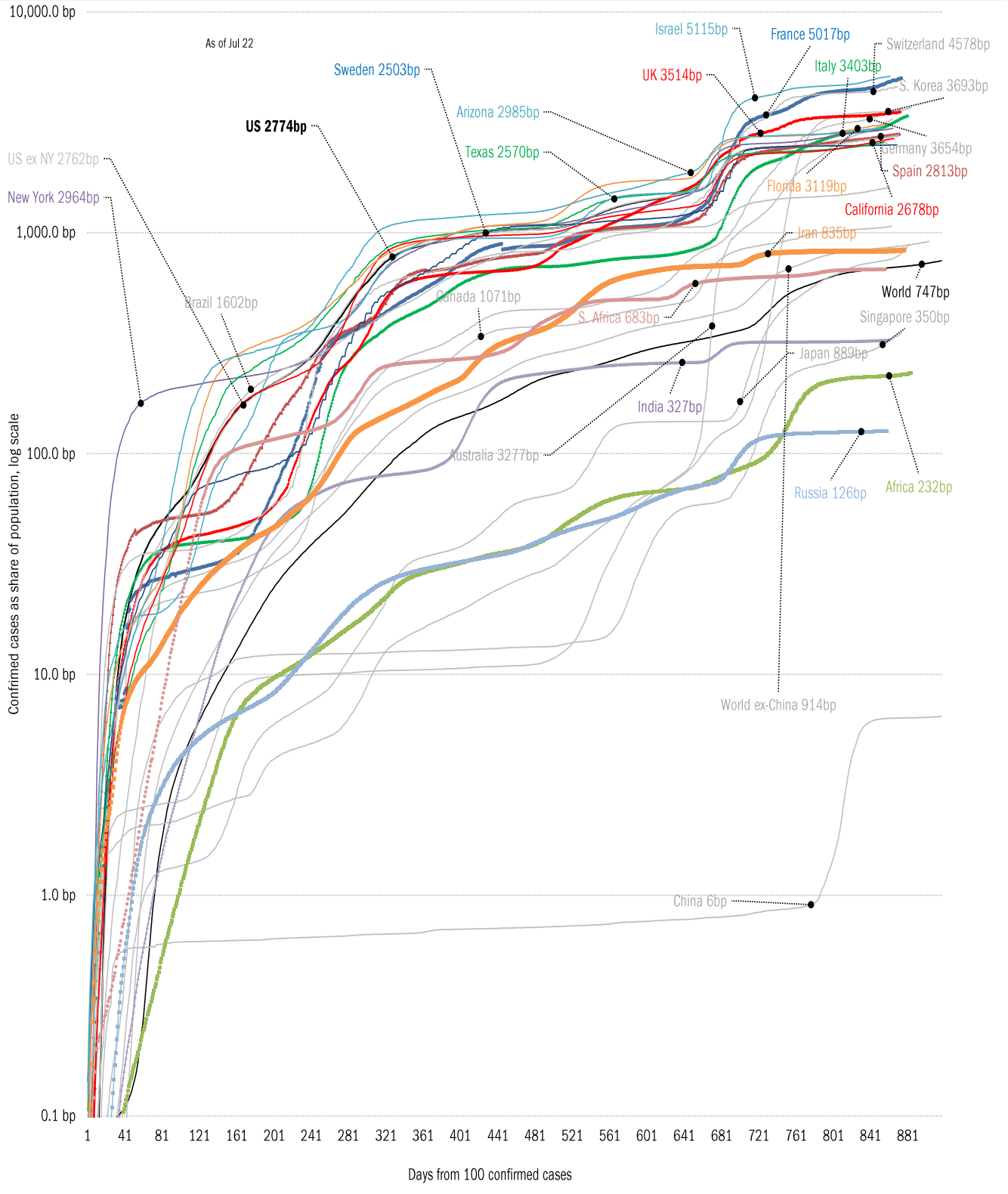
Meme of the day



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

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

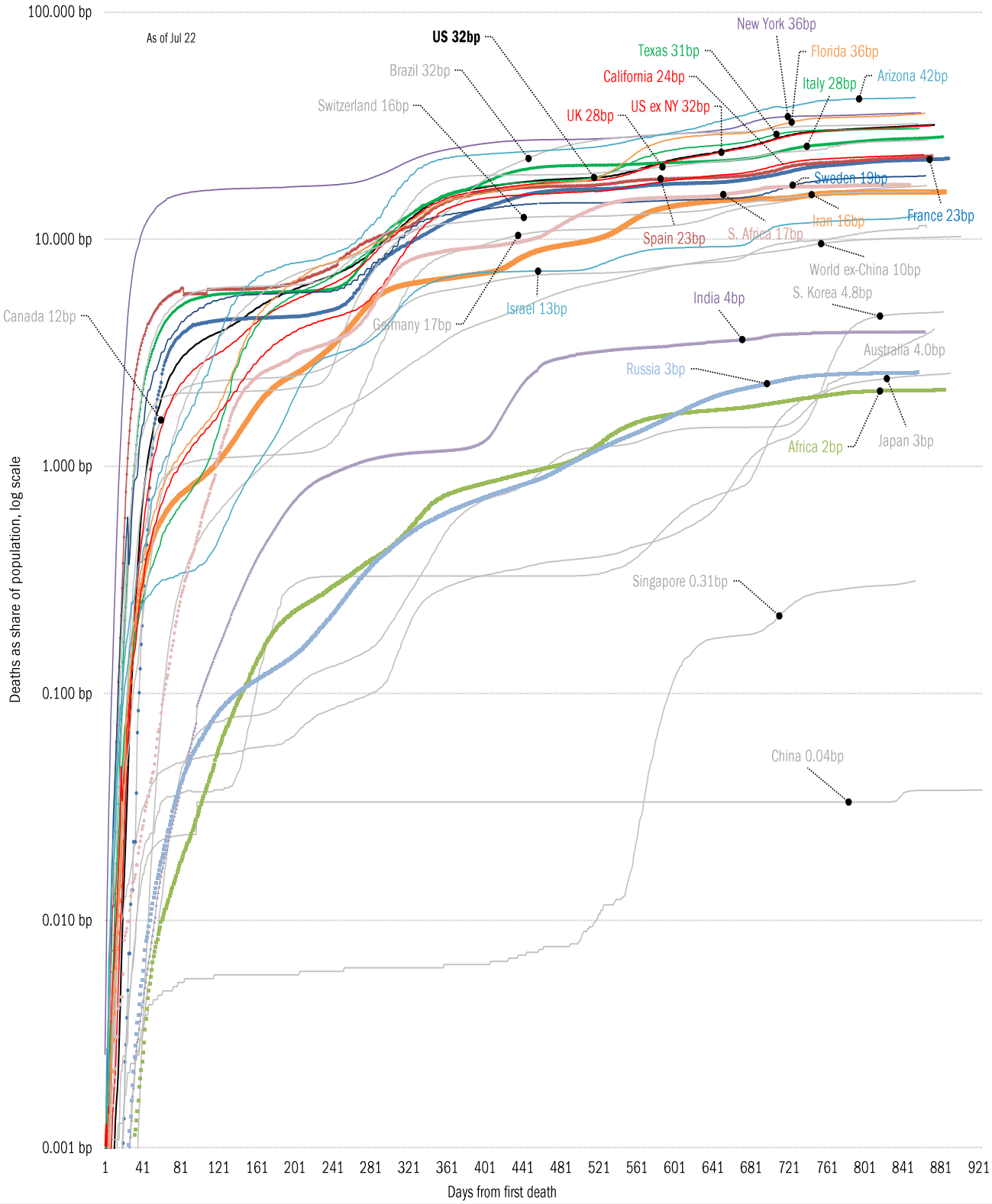
Share of infected population from first day with 100 confirmed cases, log scale



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

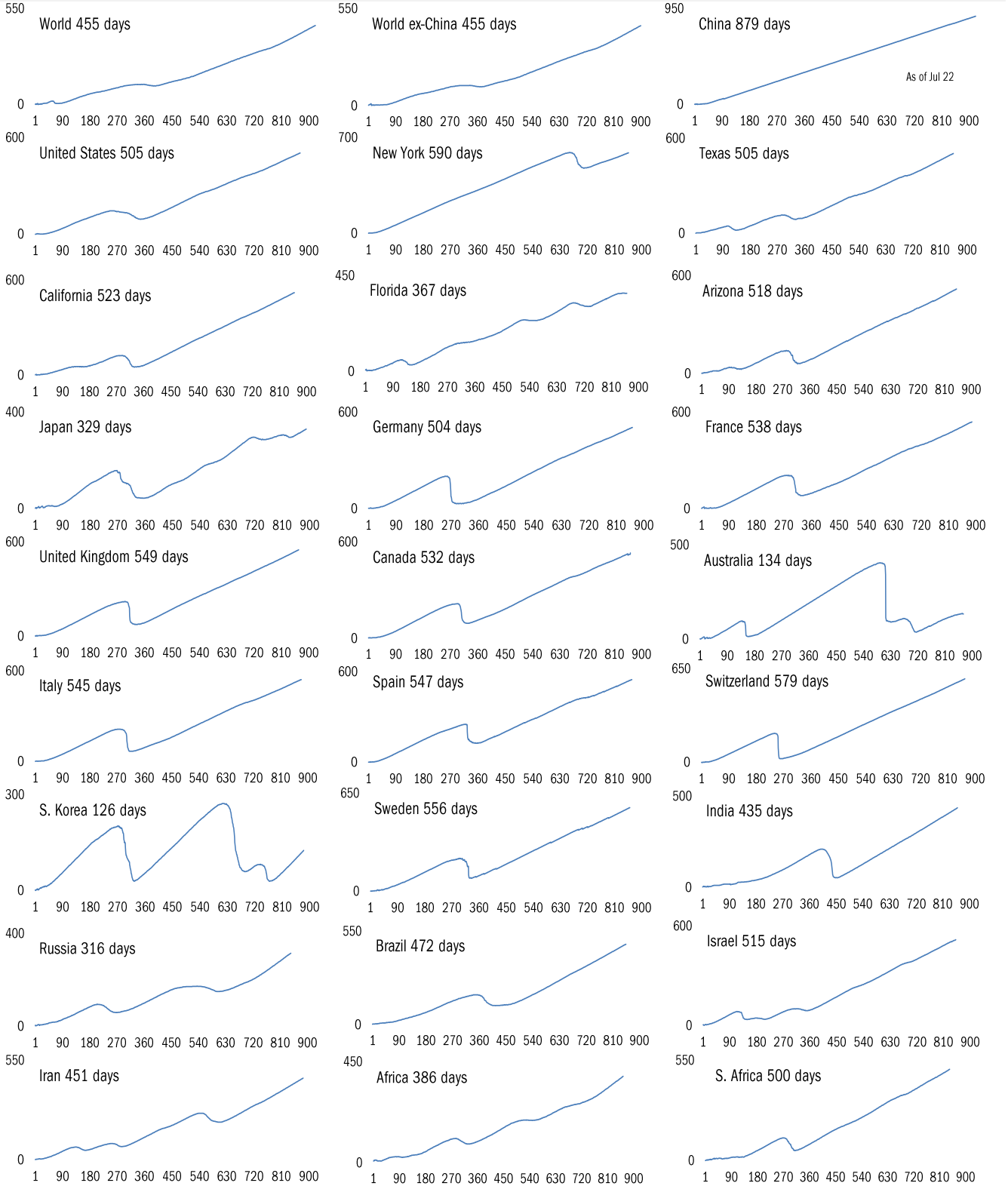


Source: Johns Hopkins, TrendMacro calculations

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

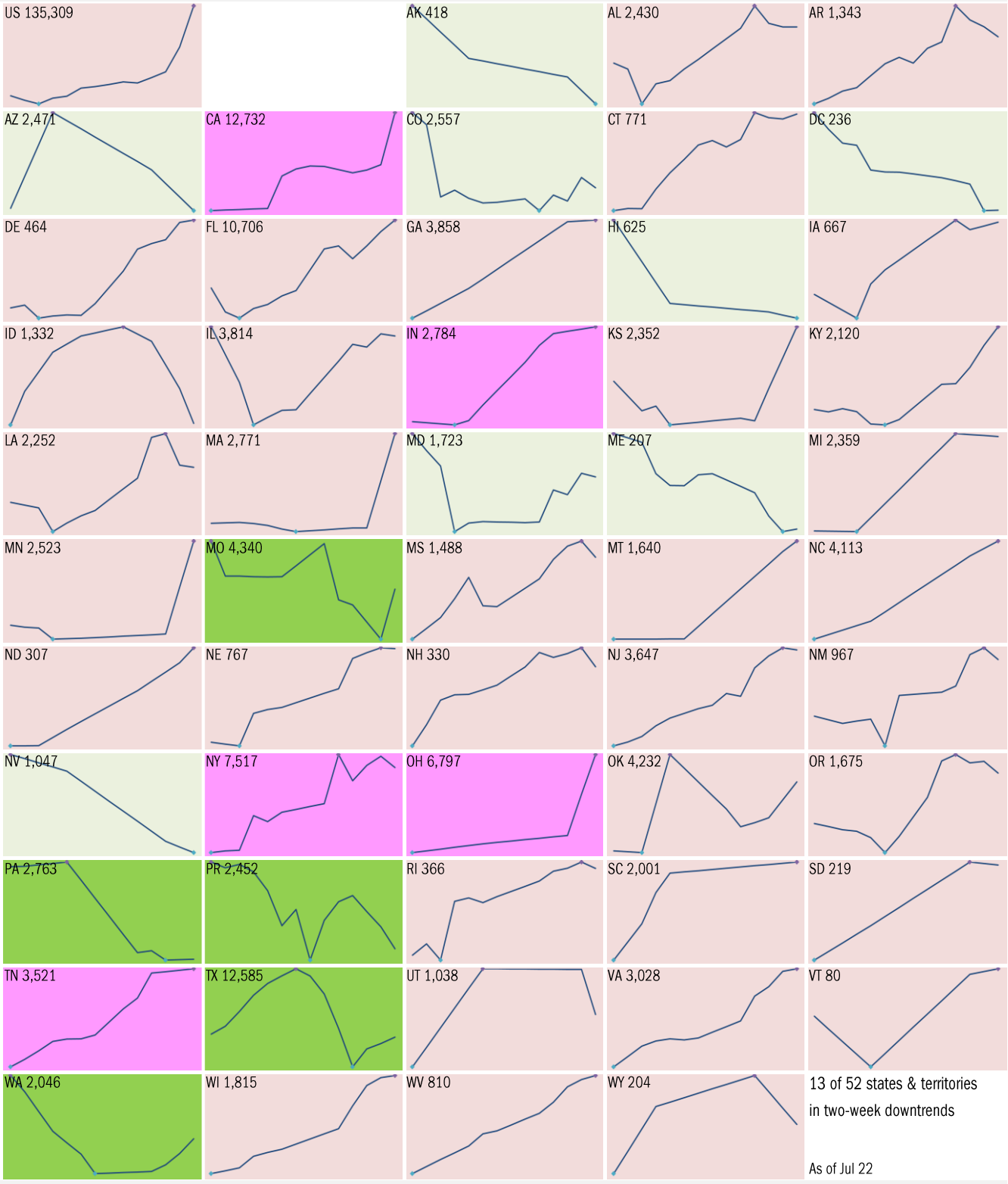


Source: Johns Hopkins, TrendMacro calculations

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

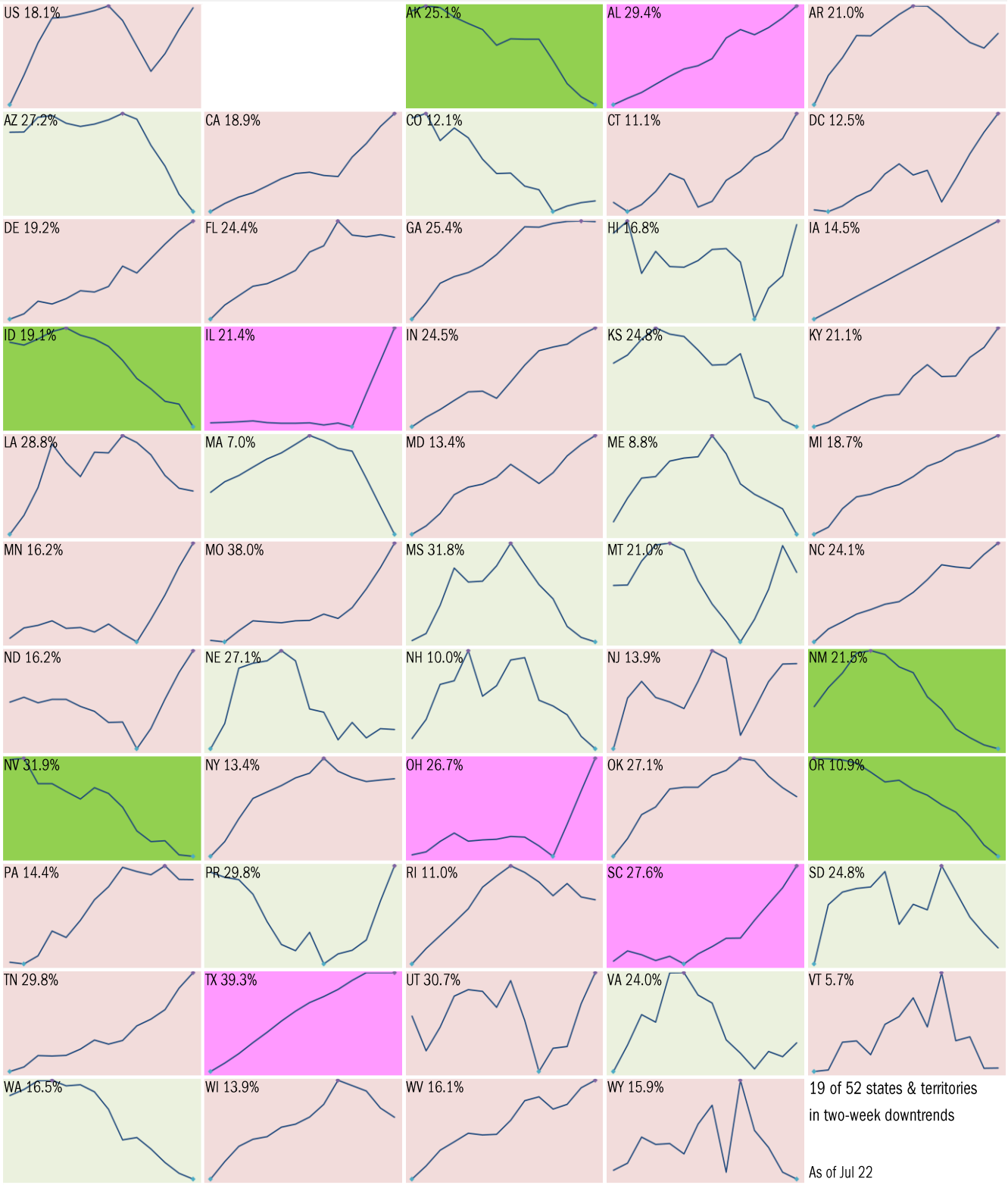


Source: Johns Hopkins, TrendMacro calculations

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

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

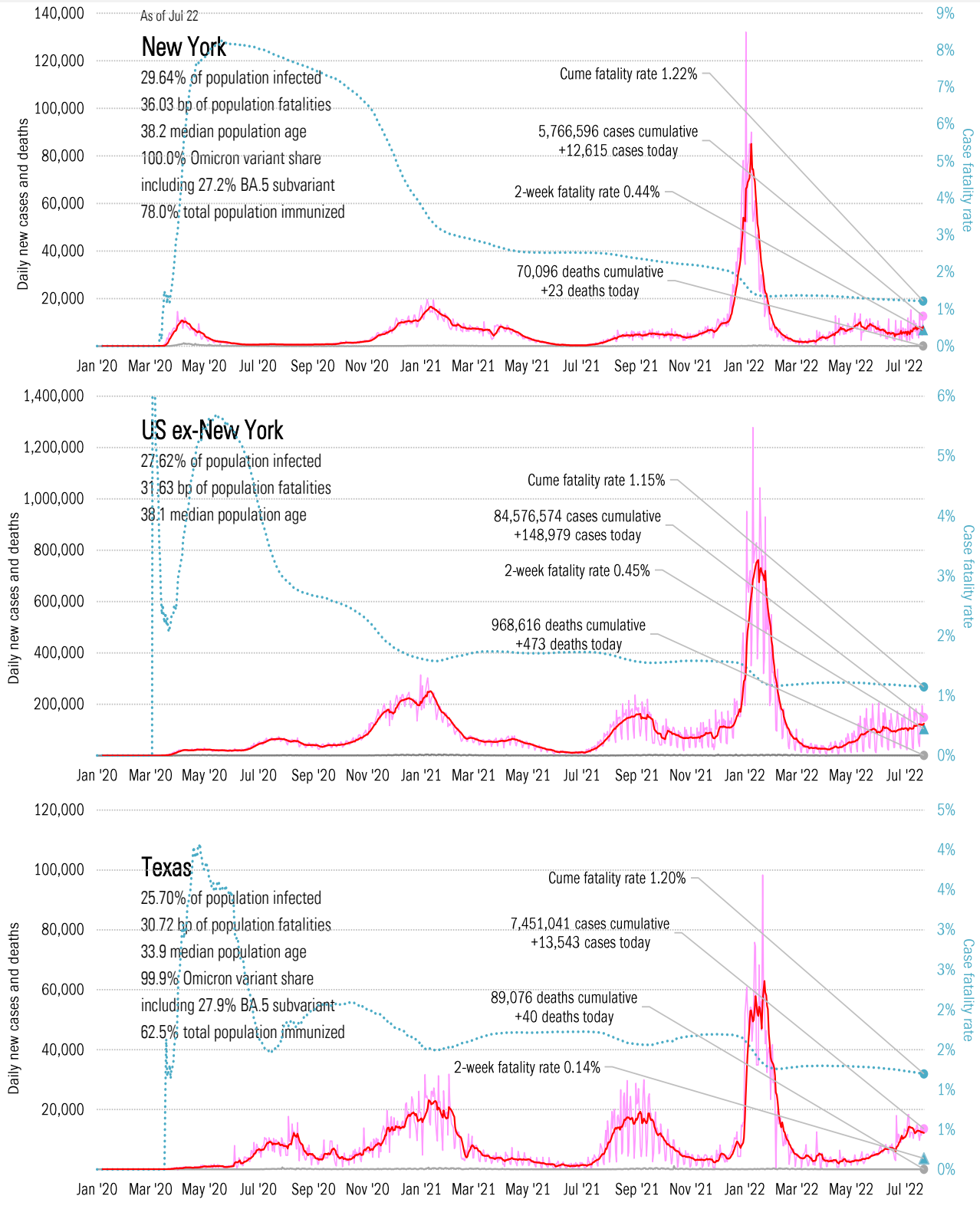
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

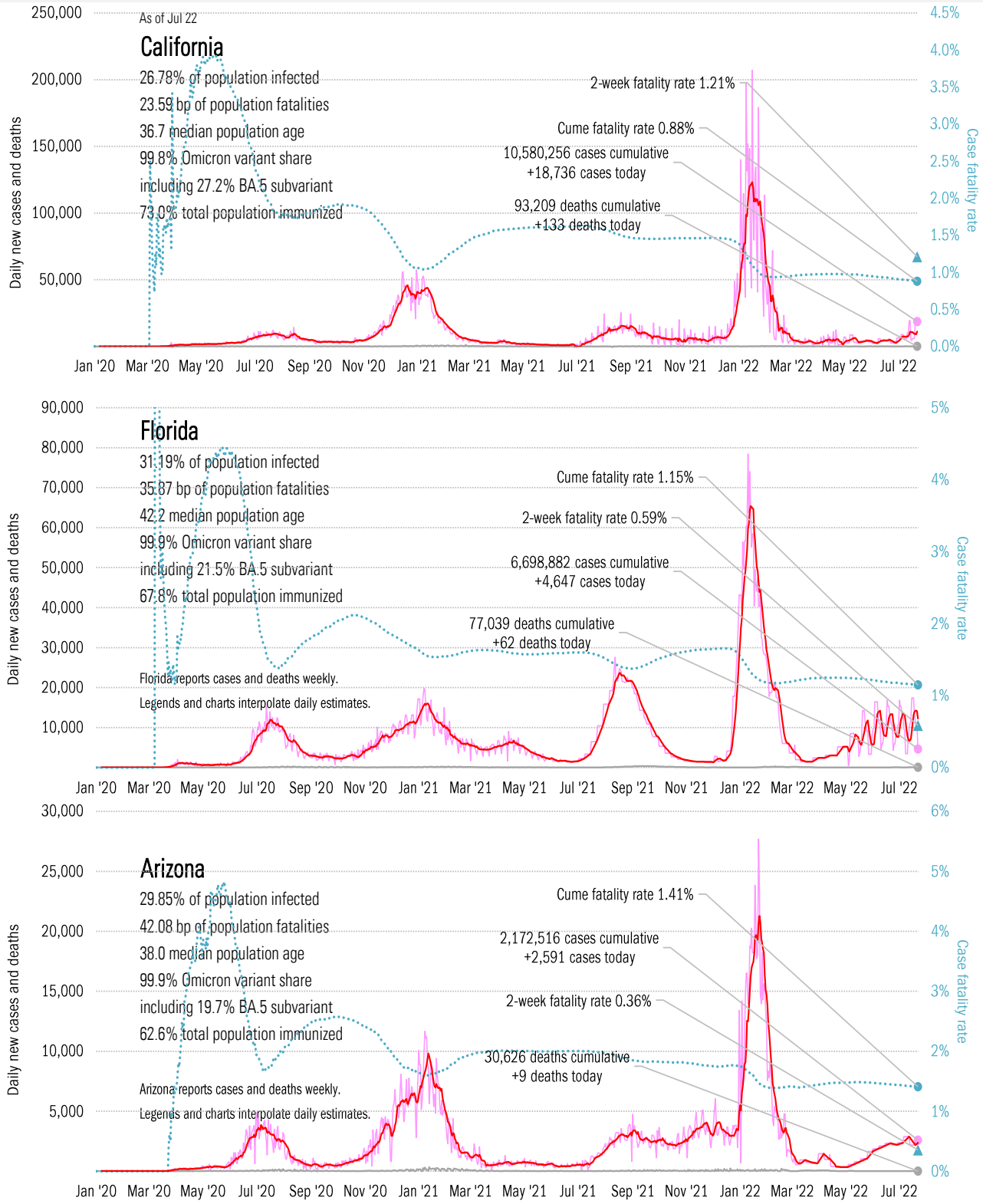
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

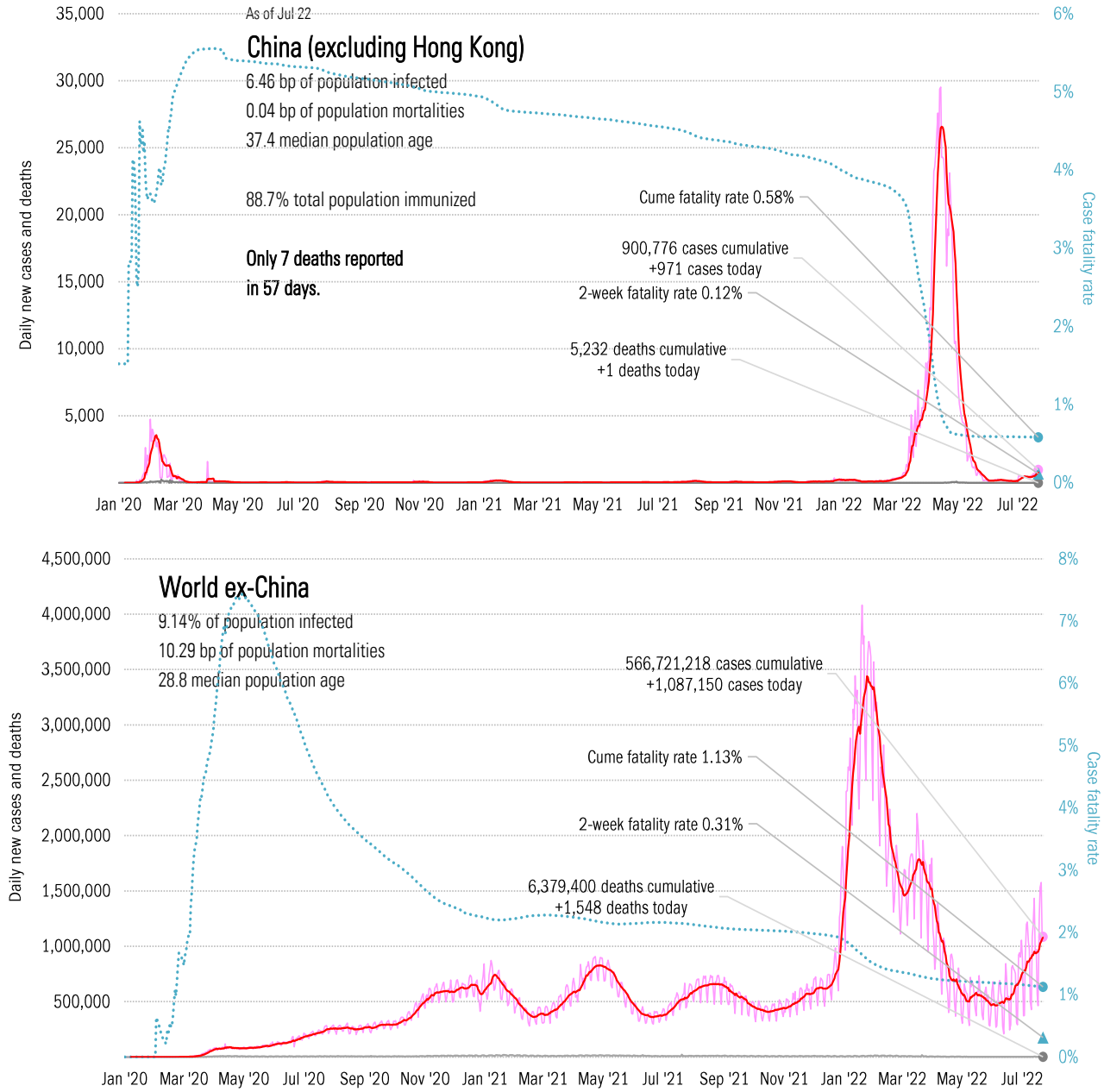
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

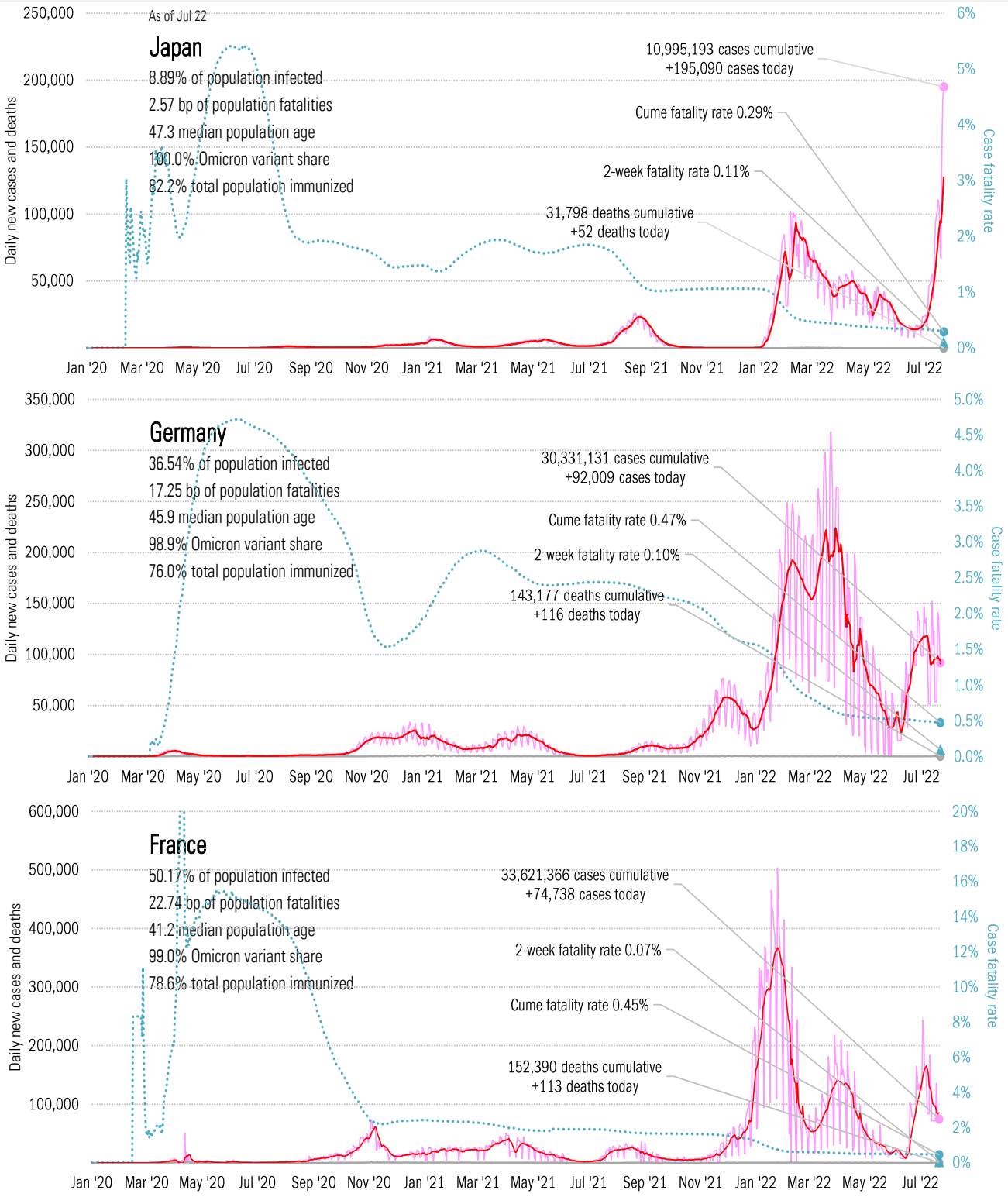
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

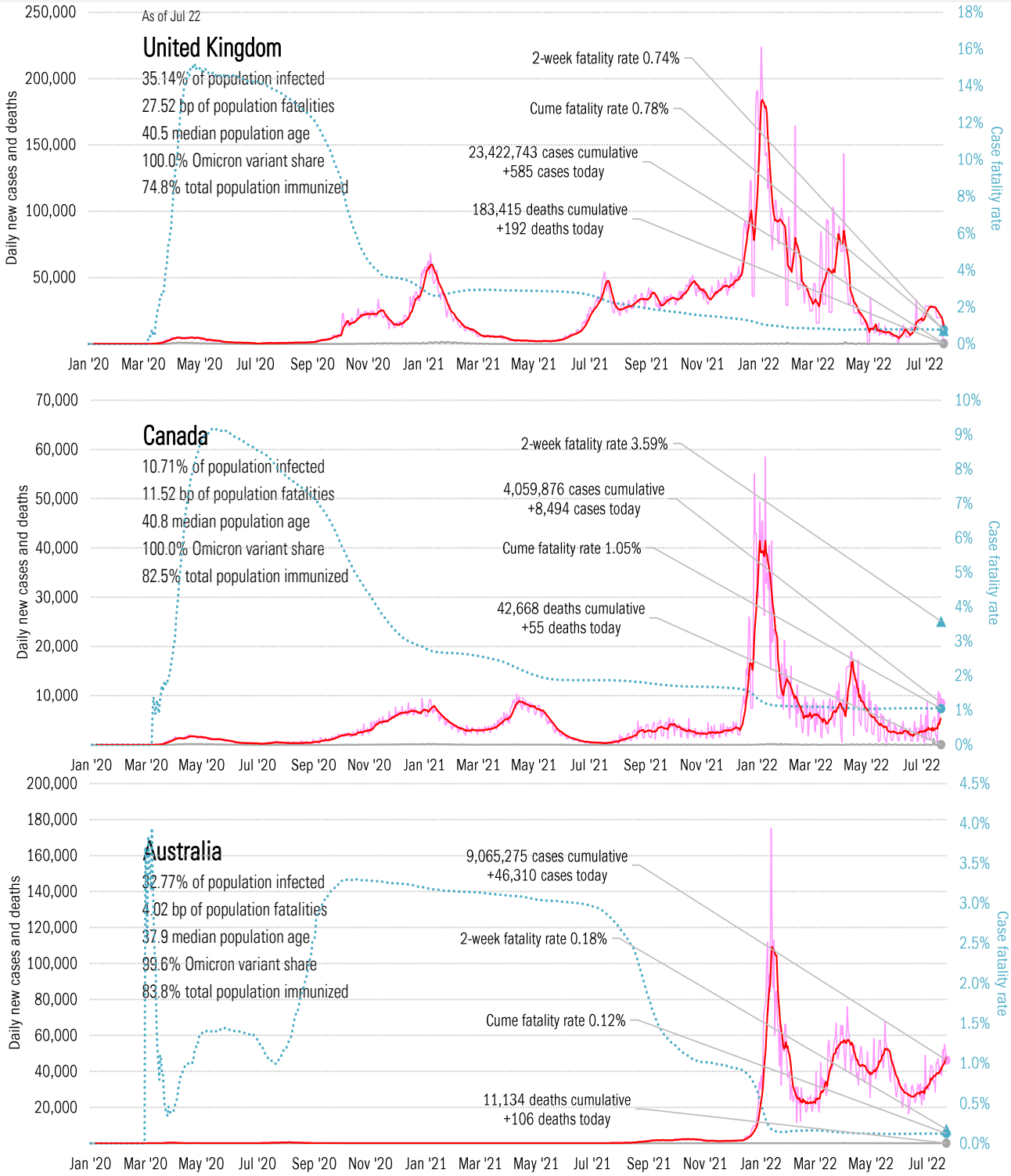
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

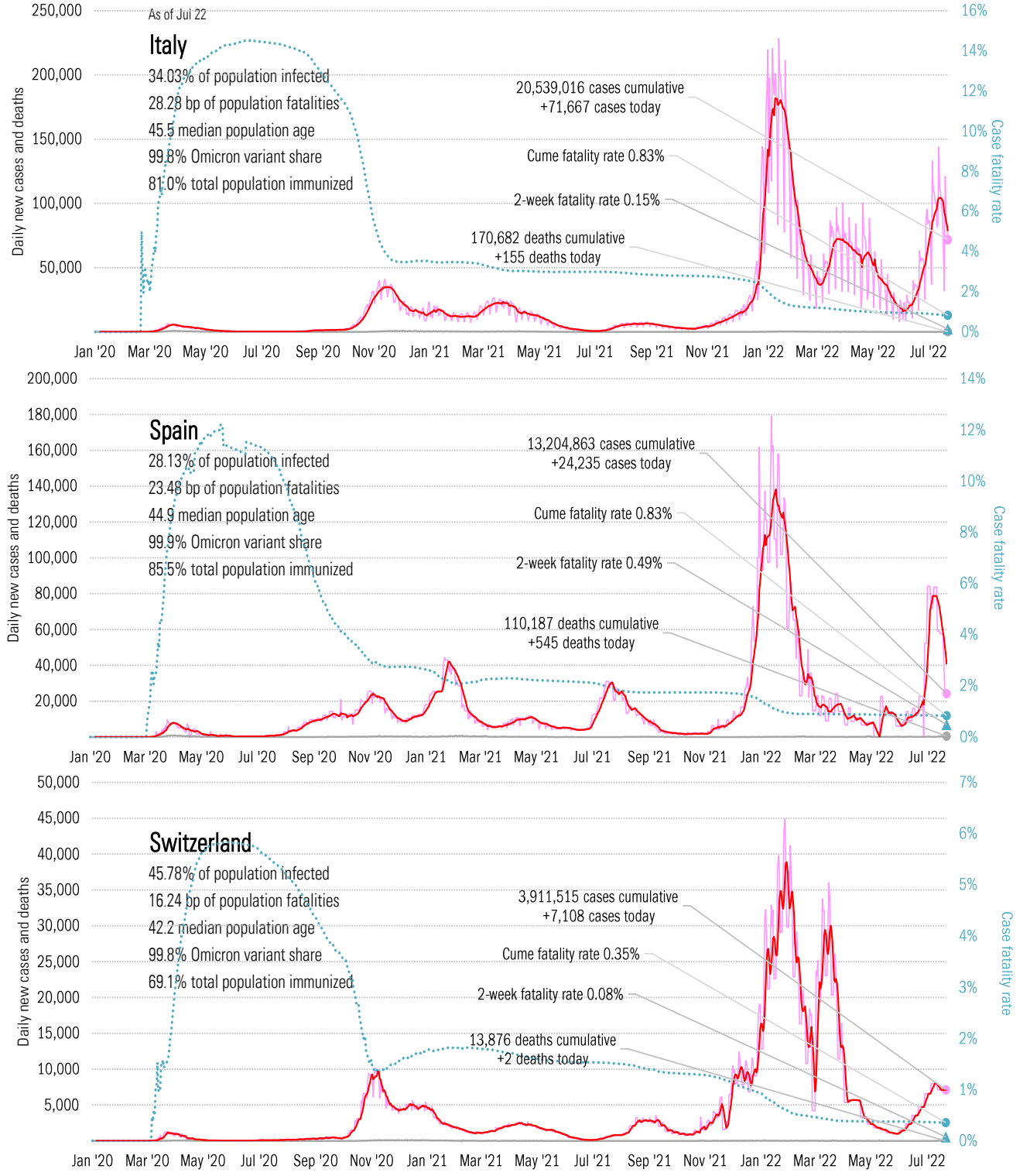
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

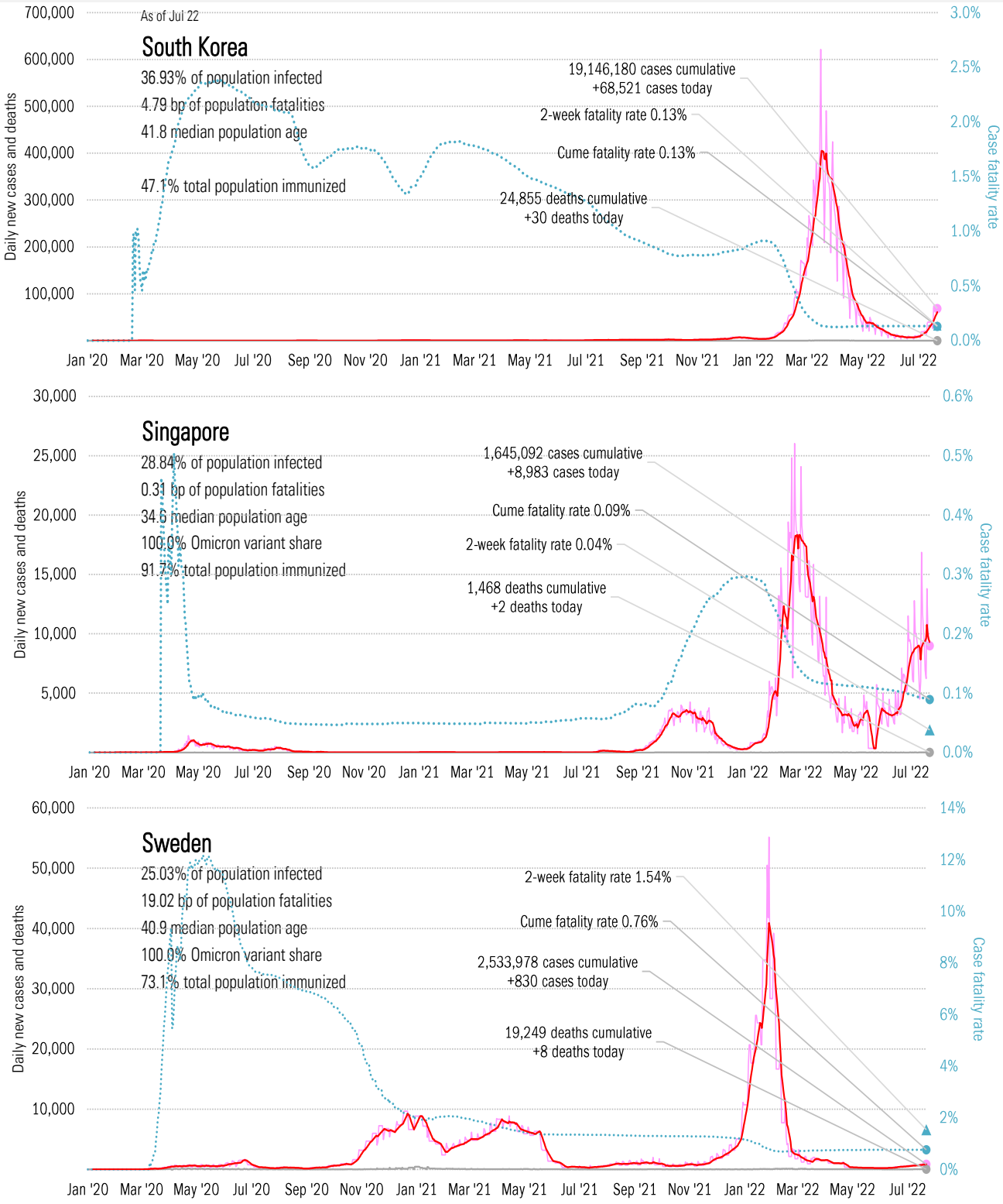
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

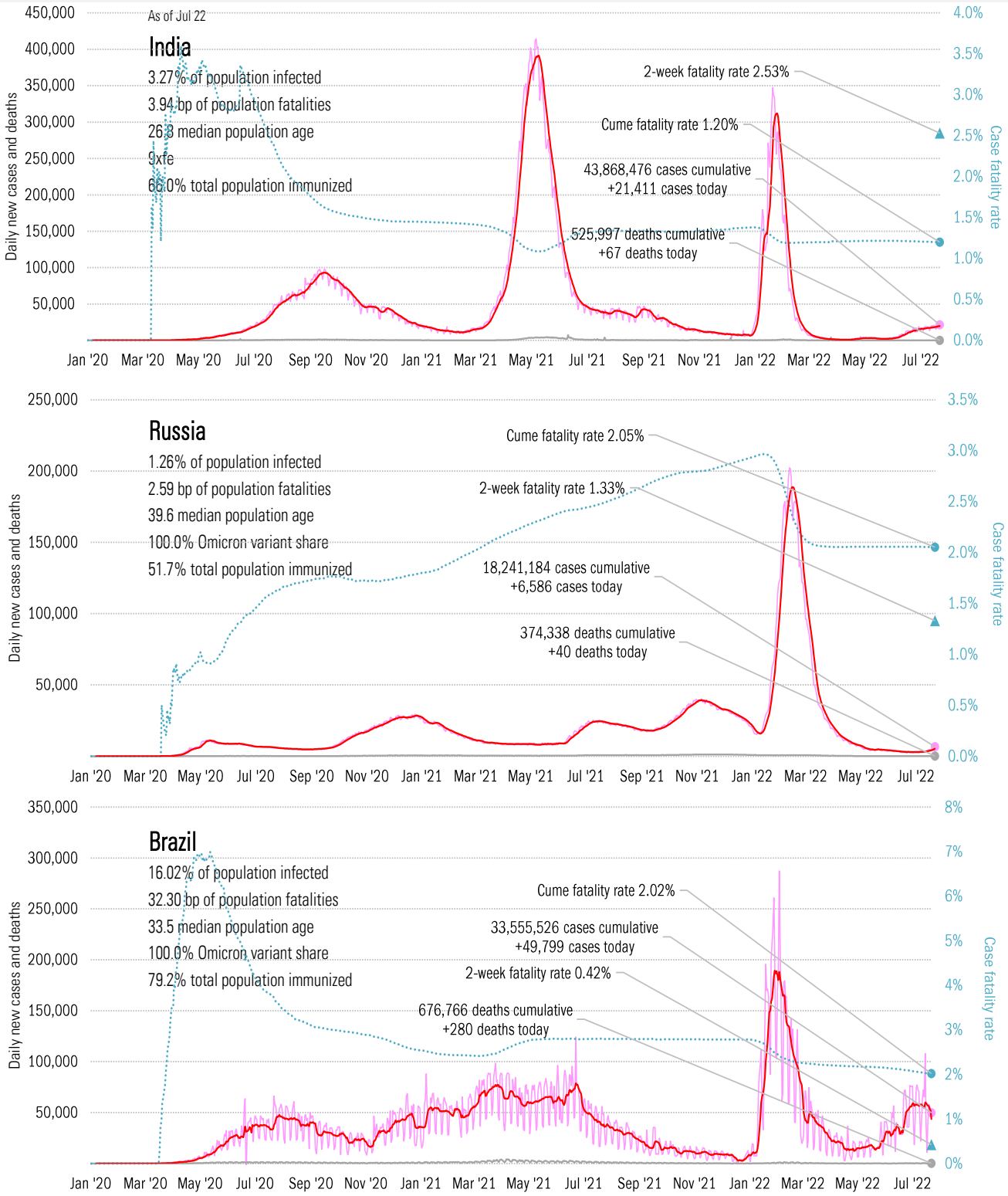
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

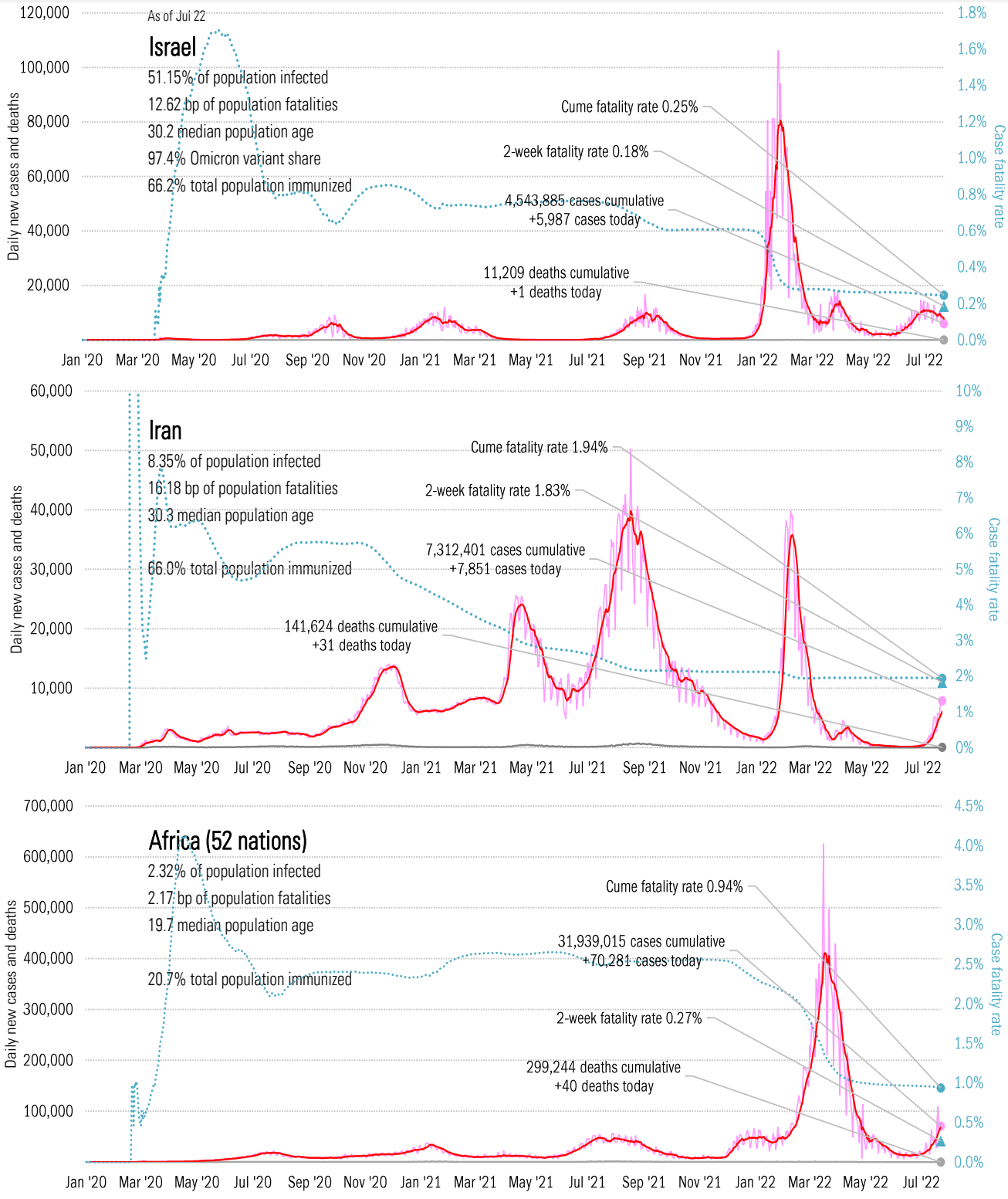
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

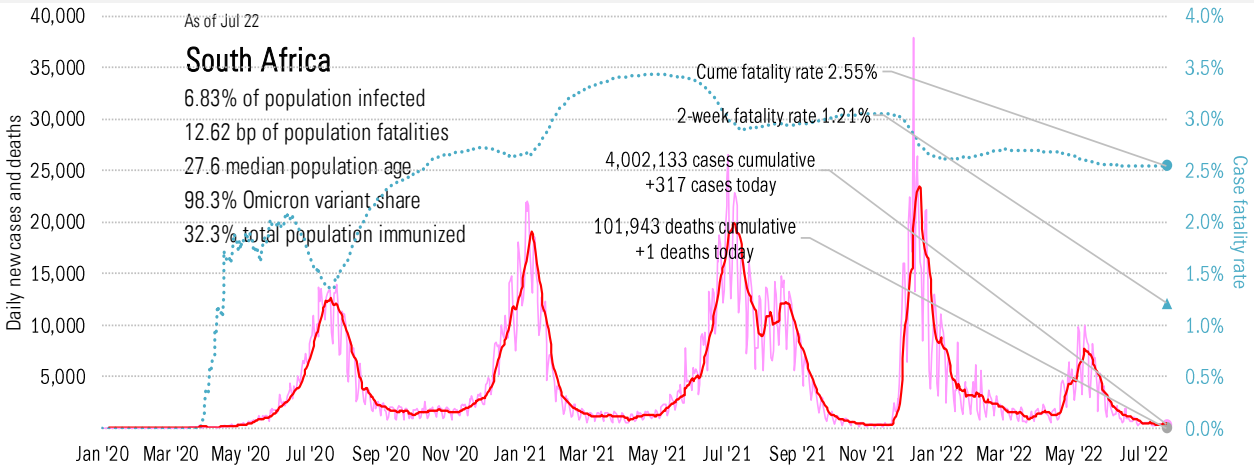
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations