Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

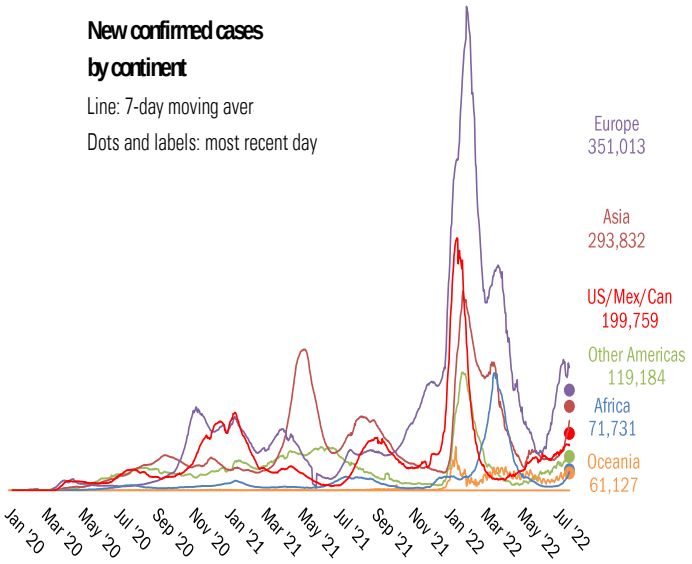
Friday, July 22, 2022

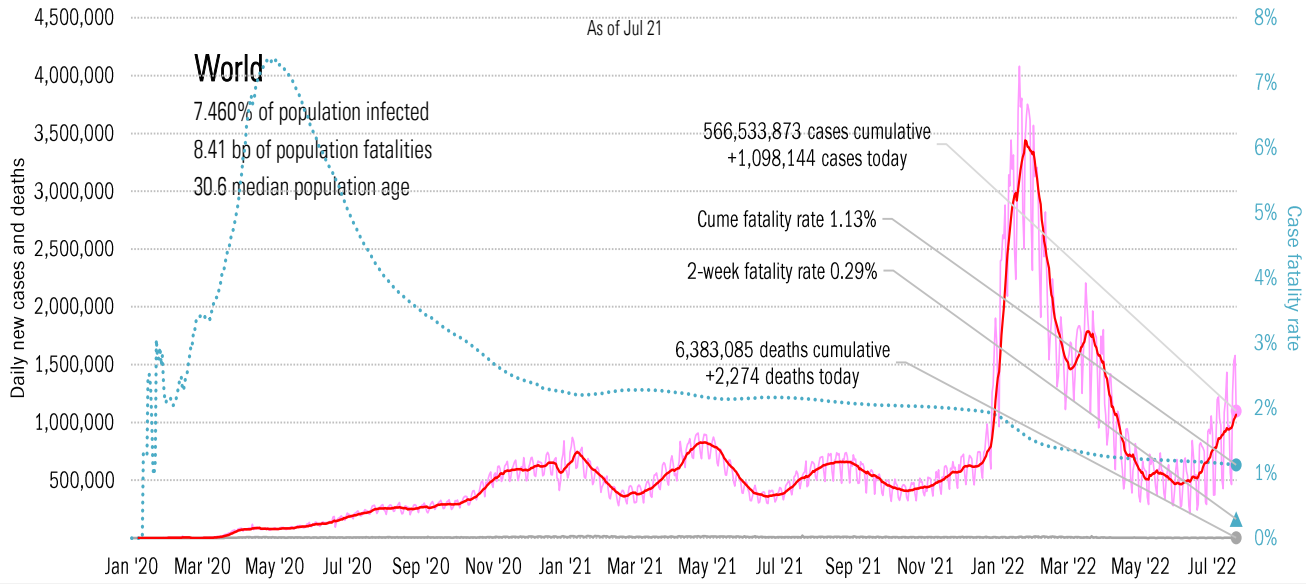
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	186,156	United States	485
United States	181,882	Brazil	269
Germany	107,819	Colombia	238
Italy	81,535	Italy	157
France	80,869	France	133
Korea, South	68,579	Mexico	115
Australia	51,827	Germany	113
Brazil	51,433	Taiwan*	74
Mexico	33,660	Chile	70
Taiwan*	25,151	Australia	60
	868,911		1,714
World	1,098,144	World	2,274
Top ten	79%	Top ten	75%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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Thomas Demas: 704 552 3625 tdemas@trendmacro.com

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

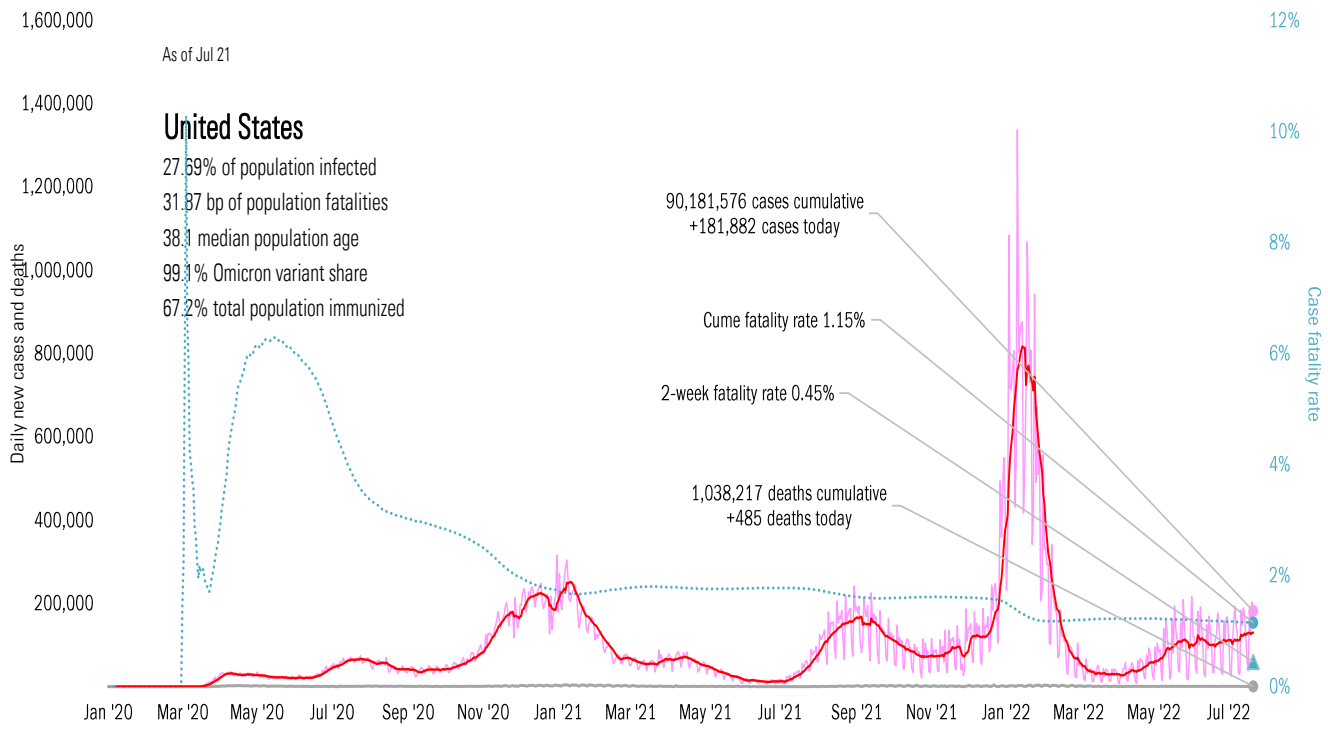
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
OH	26,610	FL	76	NC	194	CA	10,524,049	CA	93,076	TX	515,854	RI	91%	TX	89%
TX	13,141	MA	59	NY	407	TX	7,437,498	TX	89,036	CA	464,488	MA	88%	RI	85%
MA	11,525	MN	37	PA	219	FL	6,694,234	FL	76,977	FL	457,899	GA	86%	VT	85%
FL	10,785	NM	34	TX	639	NY	5,753,981	NY	70,073	NY	277,777	MN	86%	MA	84%
MN	9,500	NY	32	MA	131	IL	3,523,006	PA	46,047	GA	213,861	DE	84%	AK	82%
CA	9,216	CA	30	GA	262	PA	3,058,316	OH	38,981	OH	203,650	WA	84%	NM	82%
KS	7,444	OK	27	OH	252	NC	2,949,198	GA	38,933	PA	190,447	MO	84%	AL	82%
CO	7,065	TX	18	FL	753	OH	2,918,366	IL	38,799	IL	172,957	MD	82%	NC	81%
IL	6,636	CO	15	WI	116	GA	2,721,391	MI	37,291	MI	152,252	MI	82%	GA	80%
WA	4,686	OR	15	KY	123	MI	2,652,659	NJ	34,196	KY	137,921	WV	82%	WA	80%
	106,608		343		3,096		48,232,698		563,409		2,787,106				
All states	181,882		485		6,759	All states	90,181,576		1,038,217		5,059,870	All states	70%		67%
Top ten	59%		71%		46%	Top ten	53%		55%		55%	Median	78%		74%

Some states not reporting

Five most improved US states

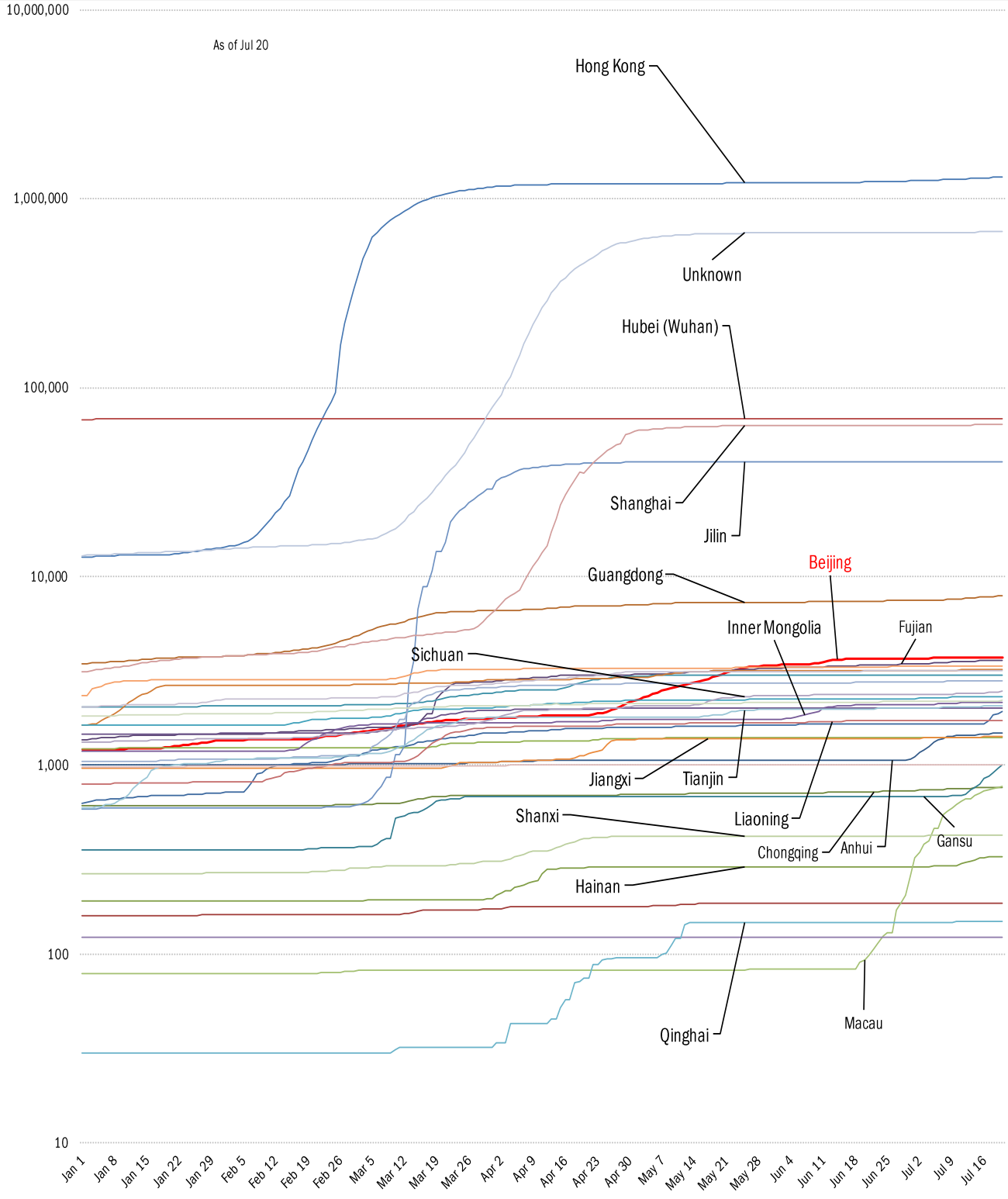
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
NY	-3,641	GA	-112	IL	-76
TX	-764	PA	-98	WA	-47
AR	-309	TN	-79	LA	-45
FL	-237	NV	-48	AZ	-32
IA	-194	WA	-46	KS	-25



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

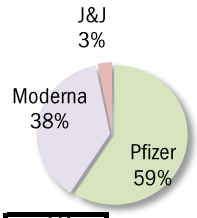
Rolling out the vaccines in the US and the world

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

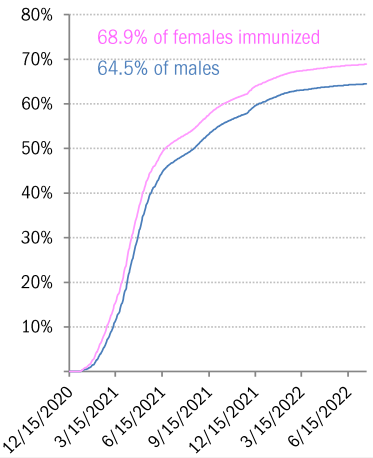
"Immunity" = two doses

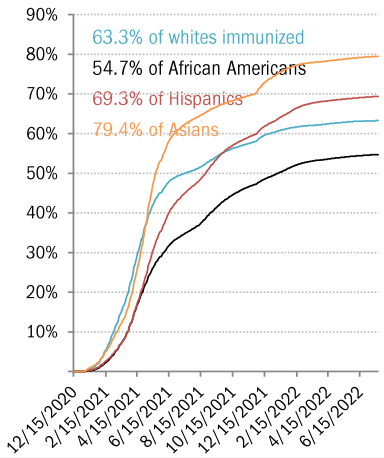
Best
Middle
Worst

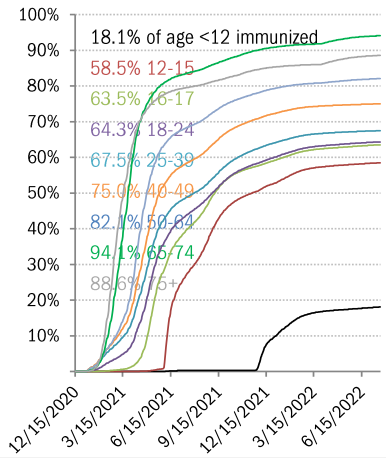
As of Jul 21

					WI					ME
					72.7%					92.4%
					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



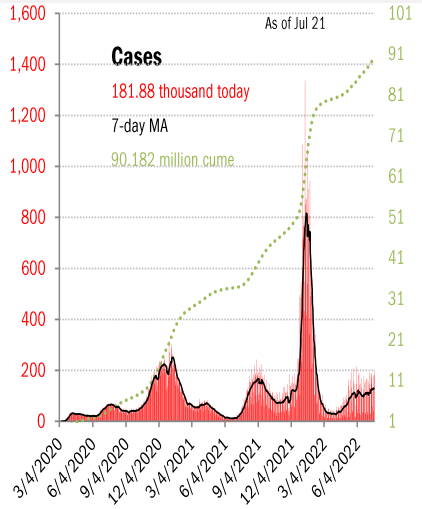


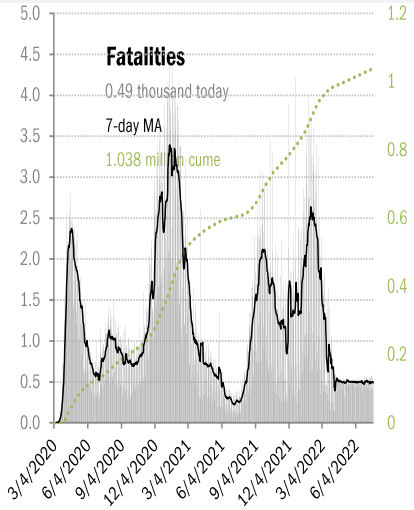


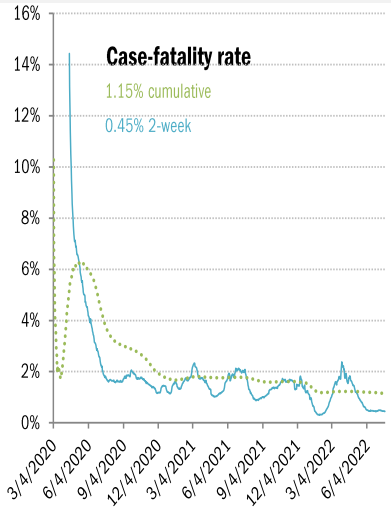
Source: CDC, CDC, Our World in Data, TrendMacro calculations

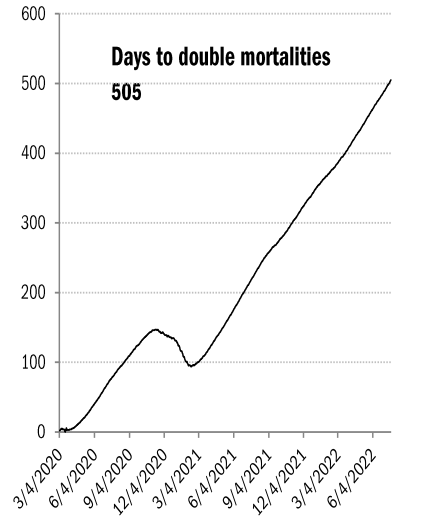
US deep-dive

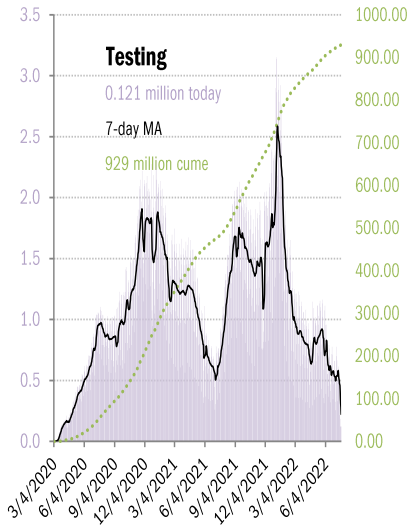
National and state-by-state data do not line up because of different sources

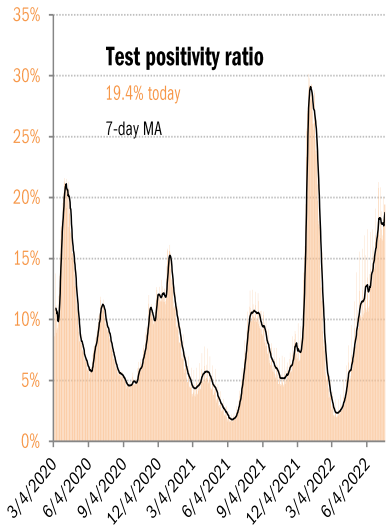


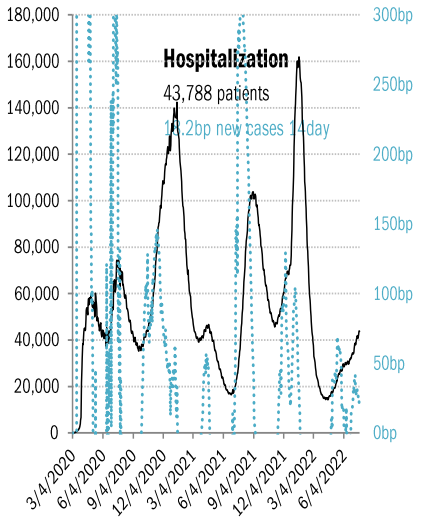


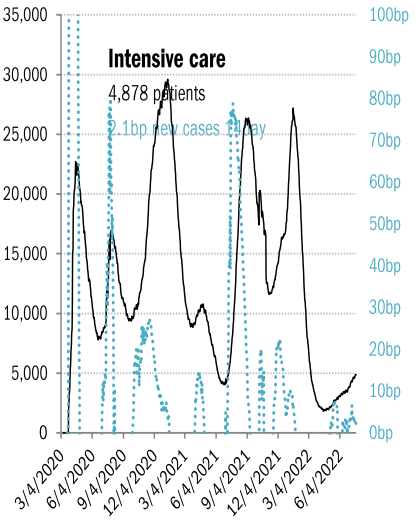


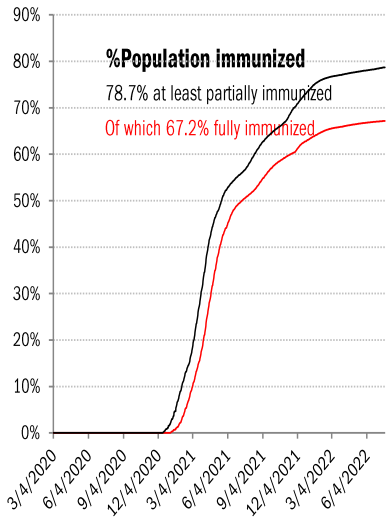












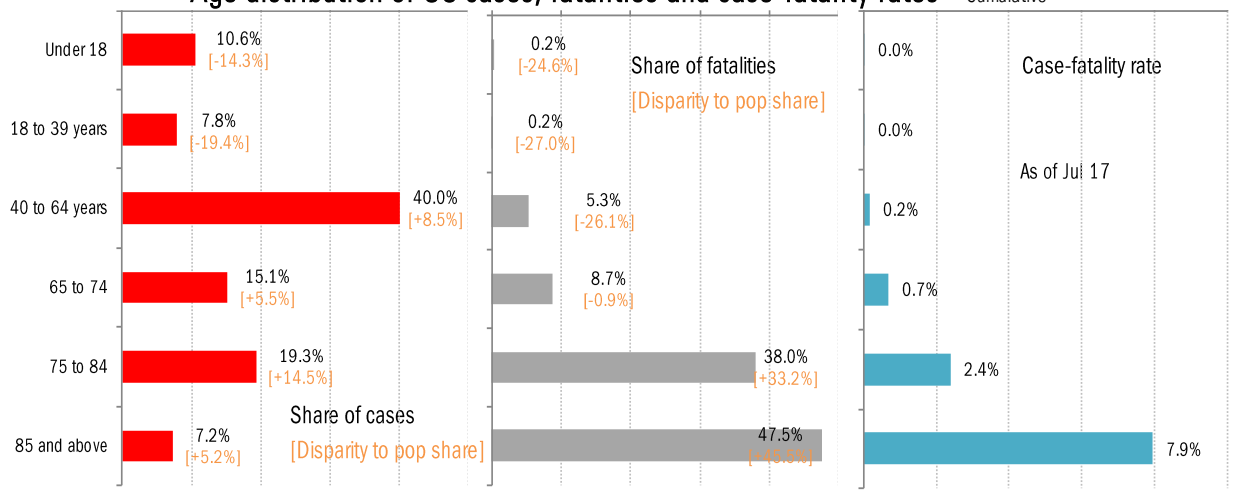
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

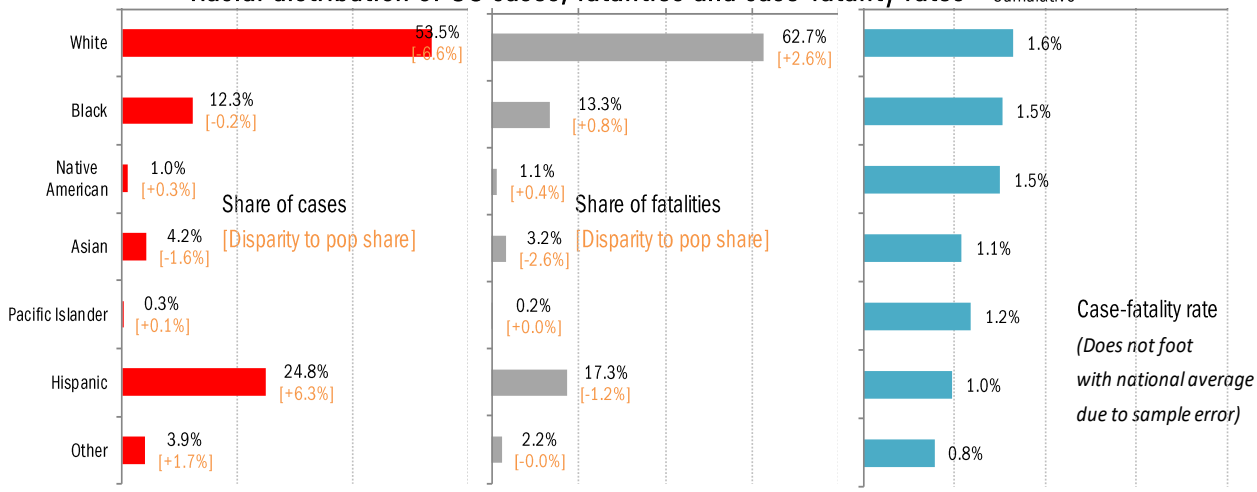
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



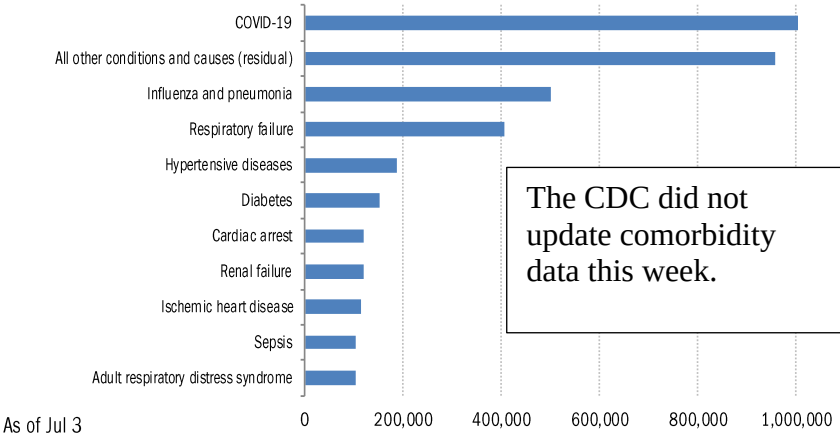
Racial distribution of US cases, fatalities and case-fatality rates

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

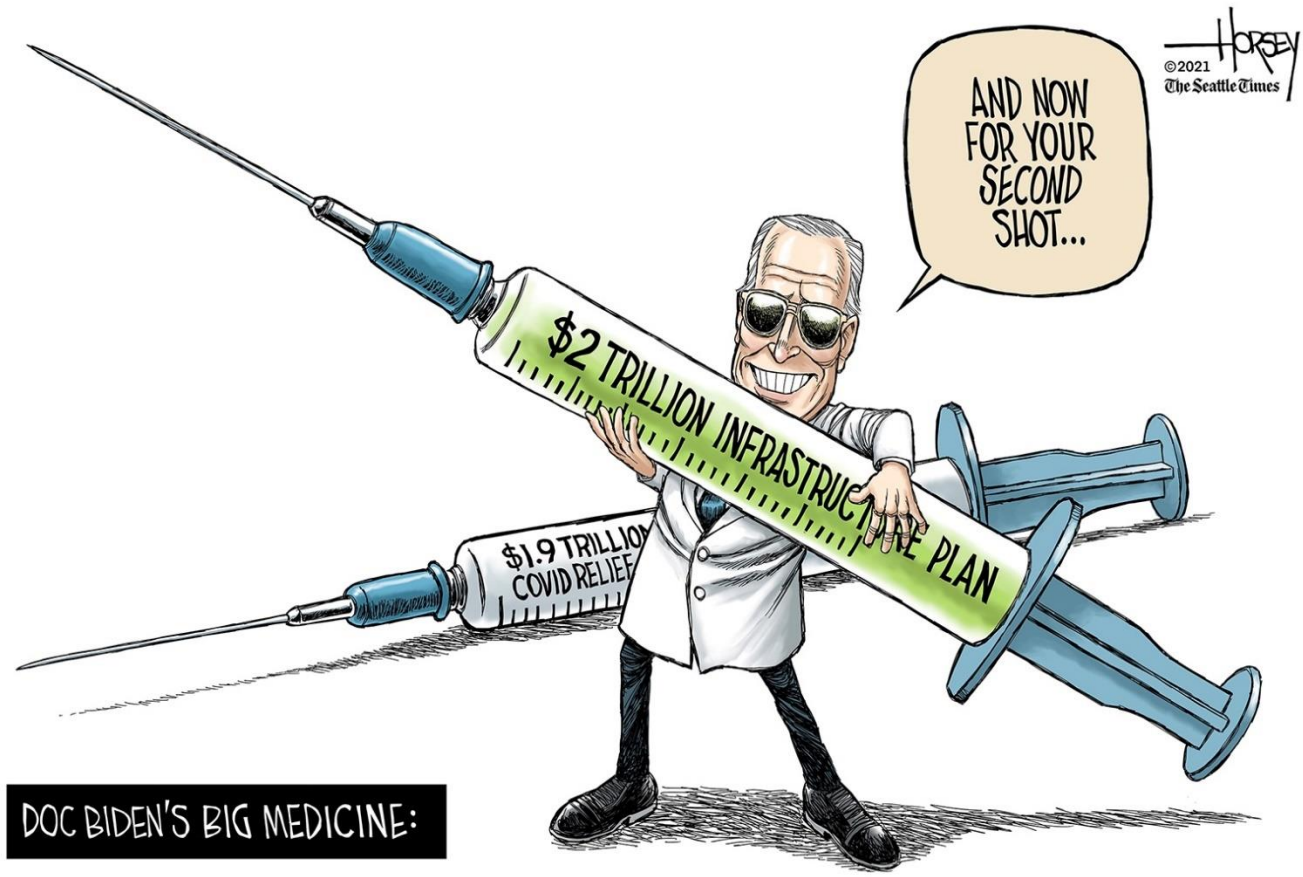
Recommended reading

[What to know about Paxlovid, the COVID drug President Biden is using to speed recovery]
Bill Chappell
NPR
July 21, 2022

[Biden had received a second booster. Here's why it wasn't enough to prevent infection.]
Apoorva Mandavilli
New York Times
July 21, 2022

[President Biden Tests Positive for Covid-19]
Catherine Lucey, Ken Thomas and Andrew Restuccia
Wall Street Journal
July 21, 2022

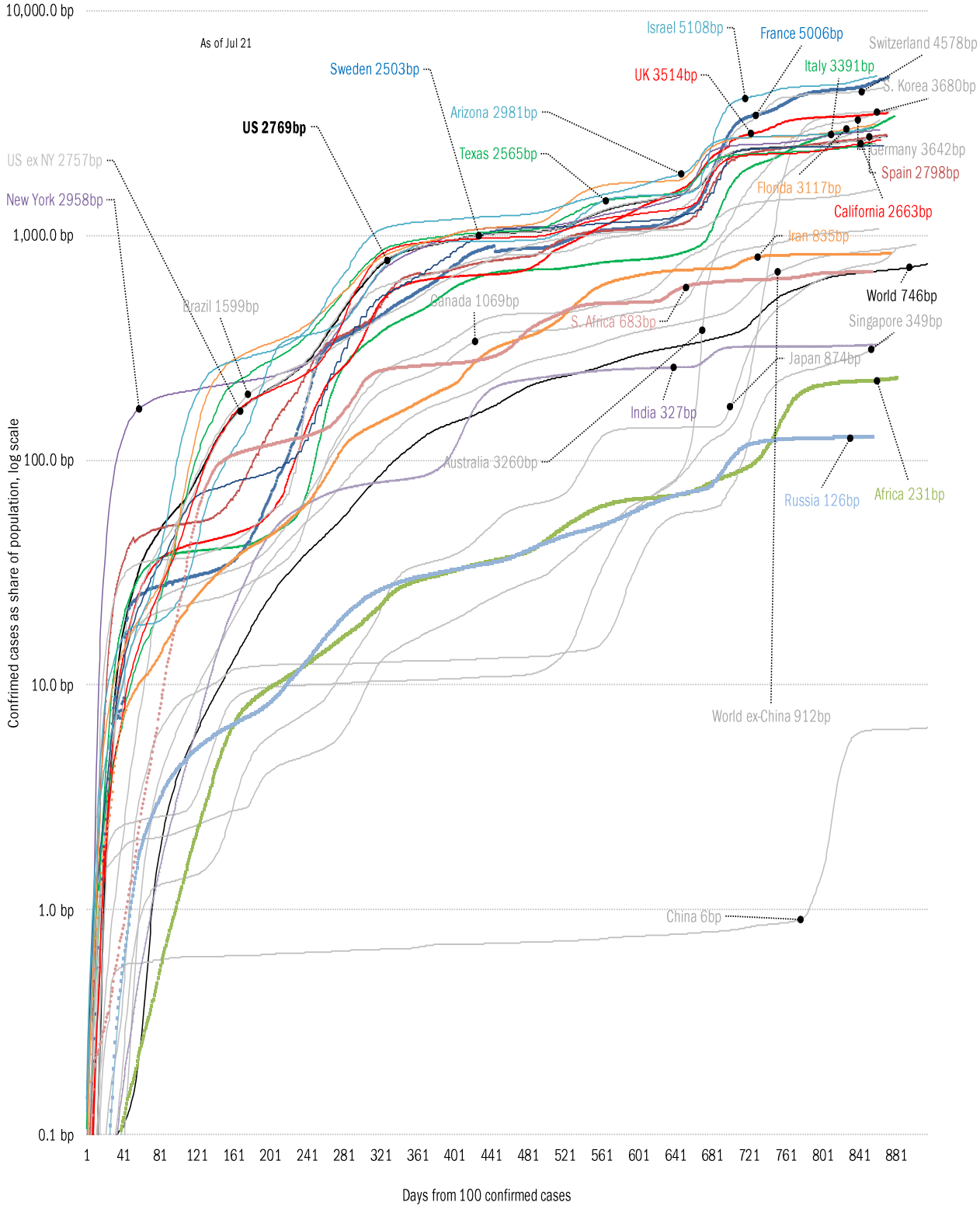
Meme of the day



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

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

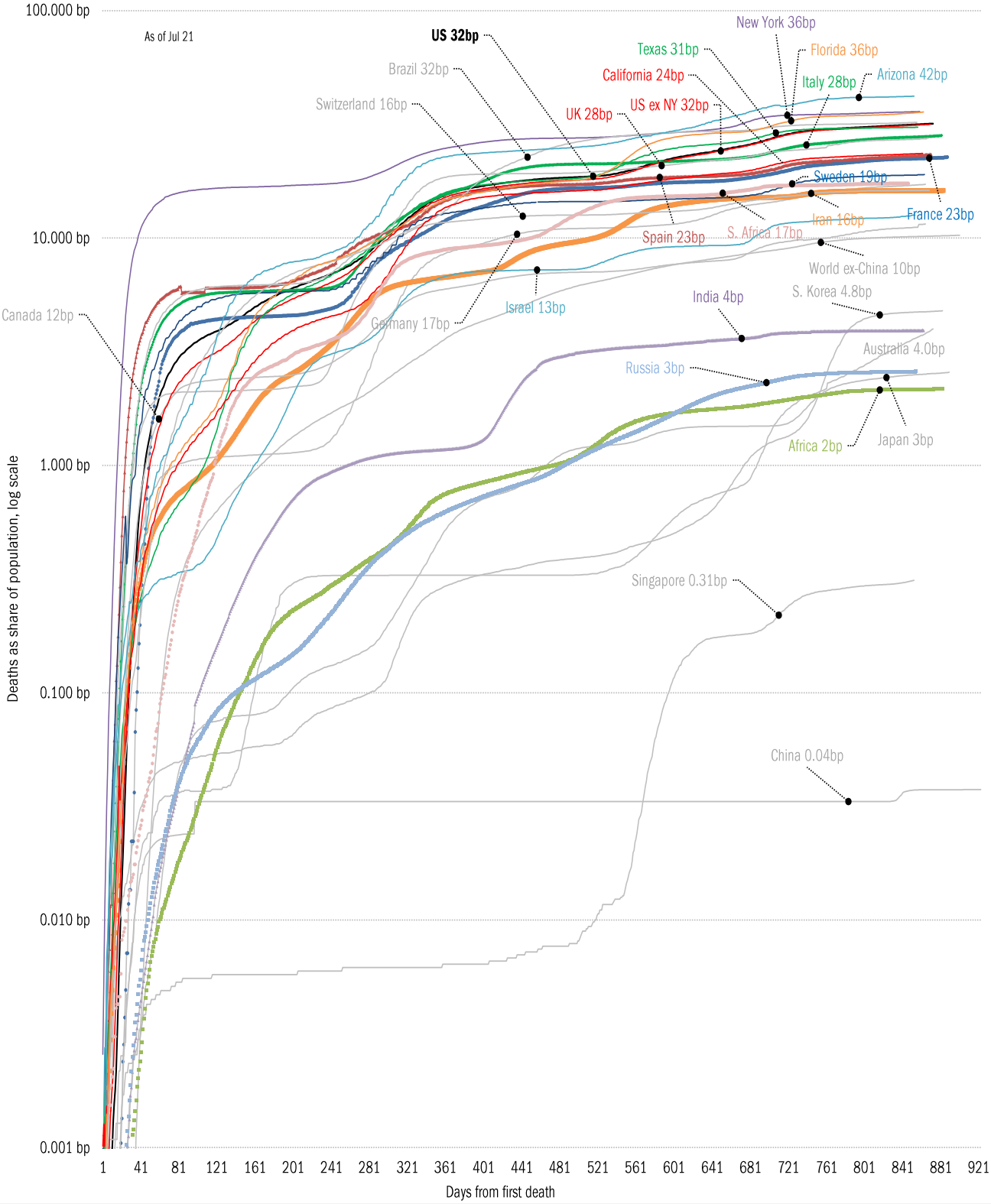
Share of infected population from first day with 100 confirmed cases, log scale



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

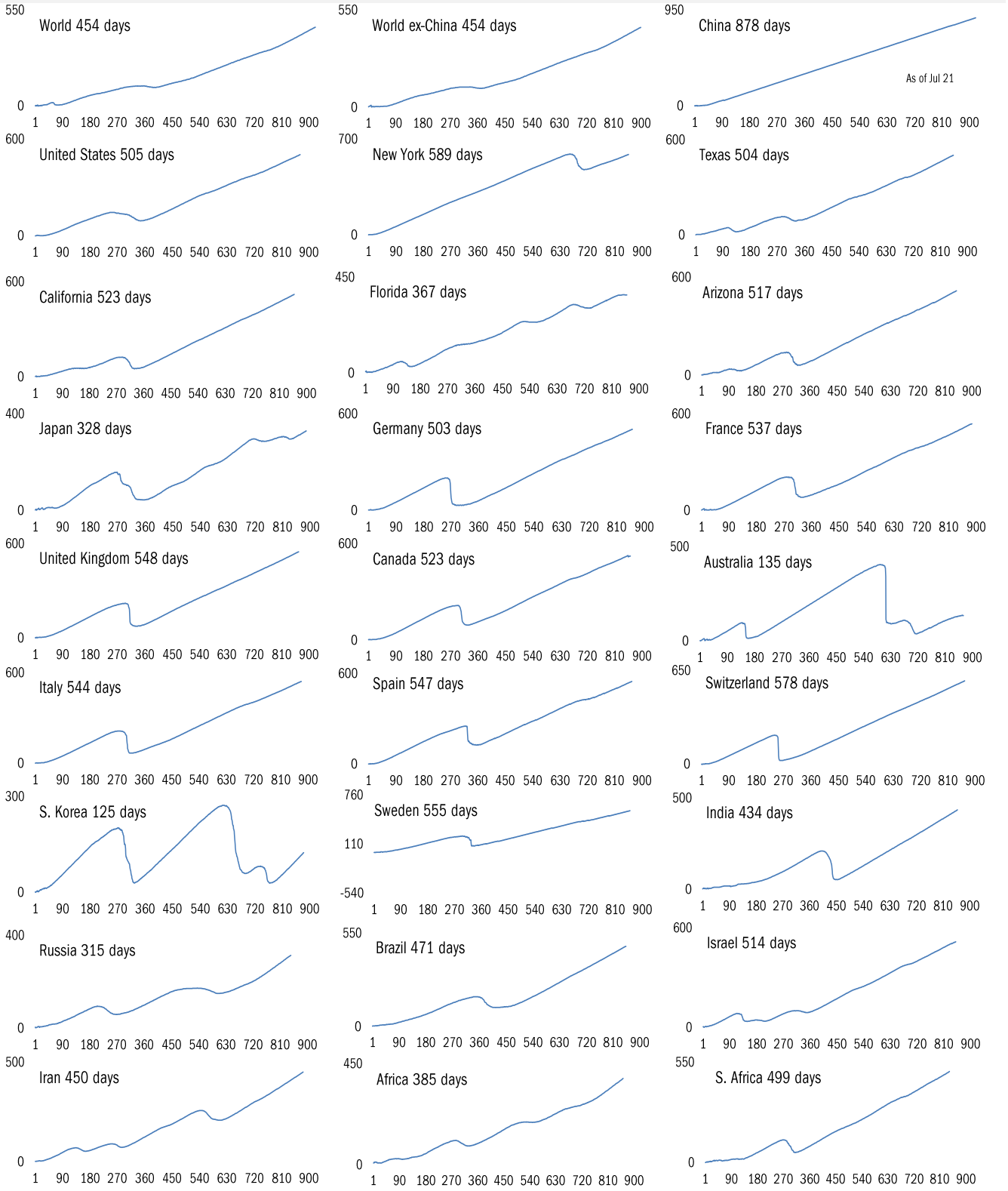


Source: Johns Hopkins, TrendMacro calculations

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

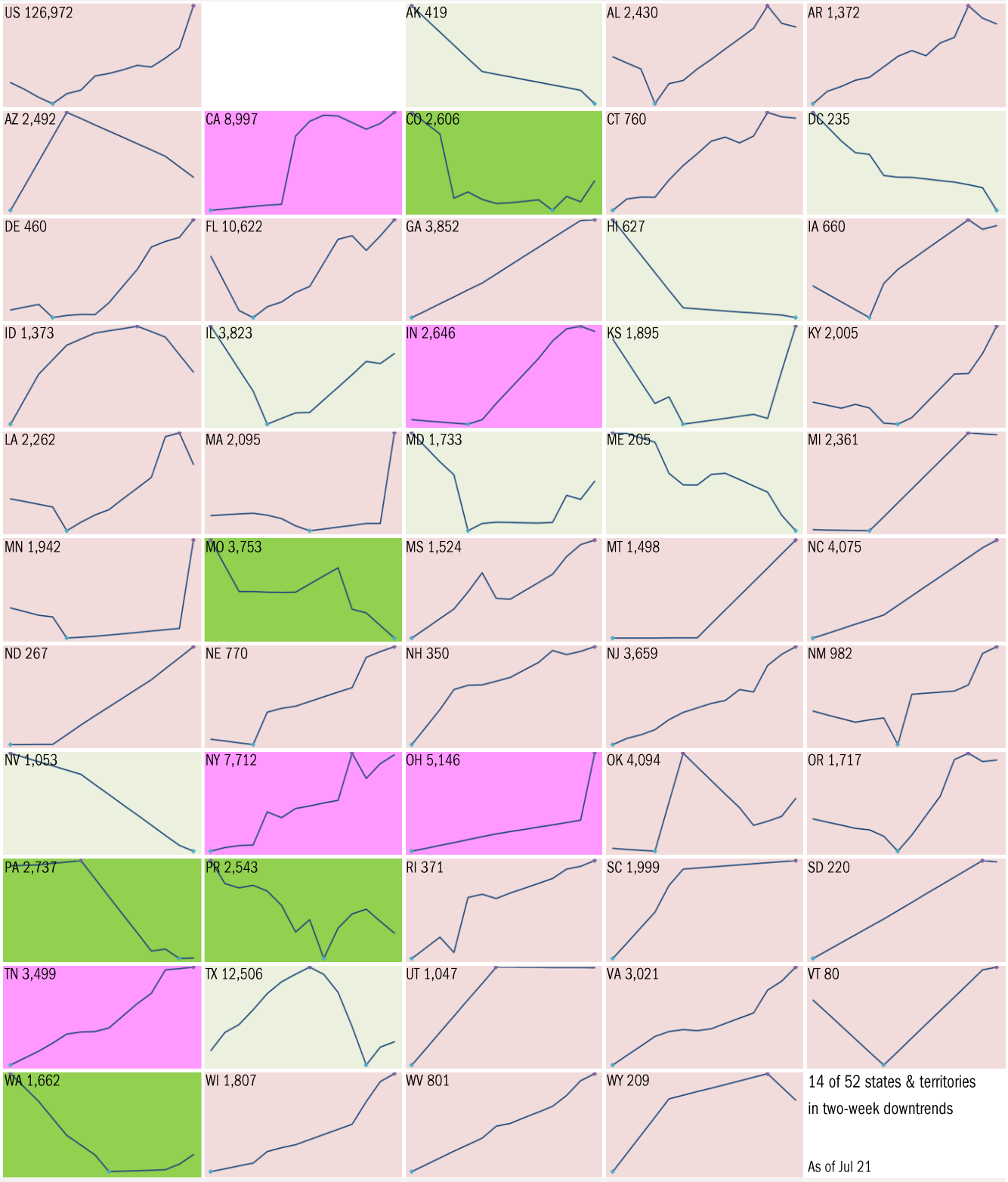


Source: Johns Hopkins, TrendMacro calculations

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

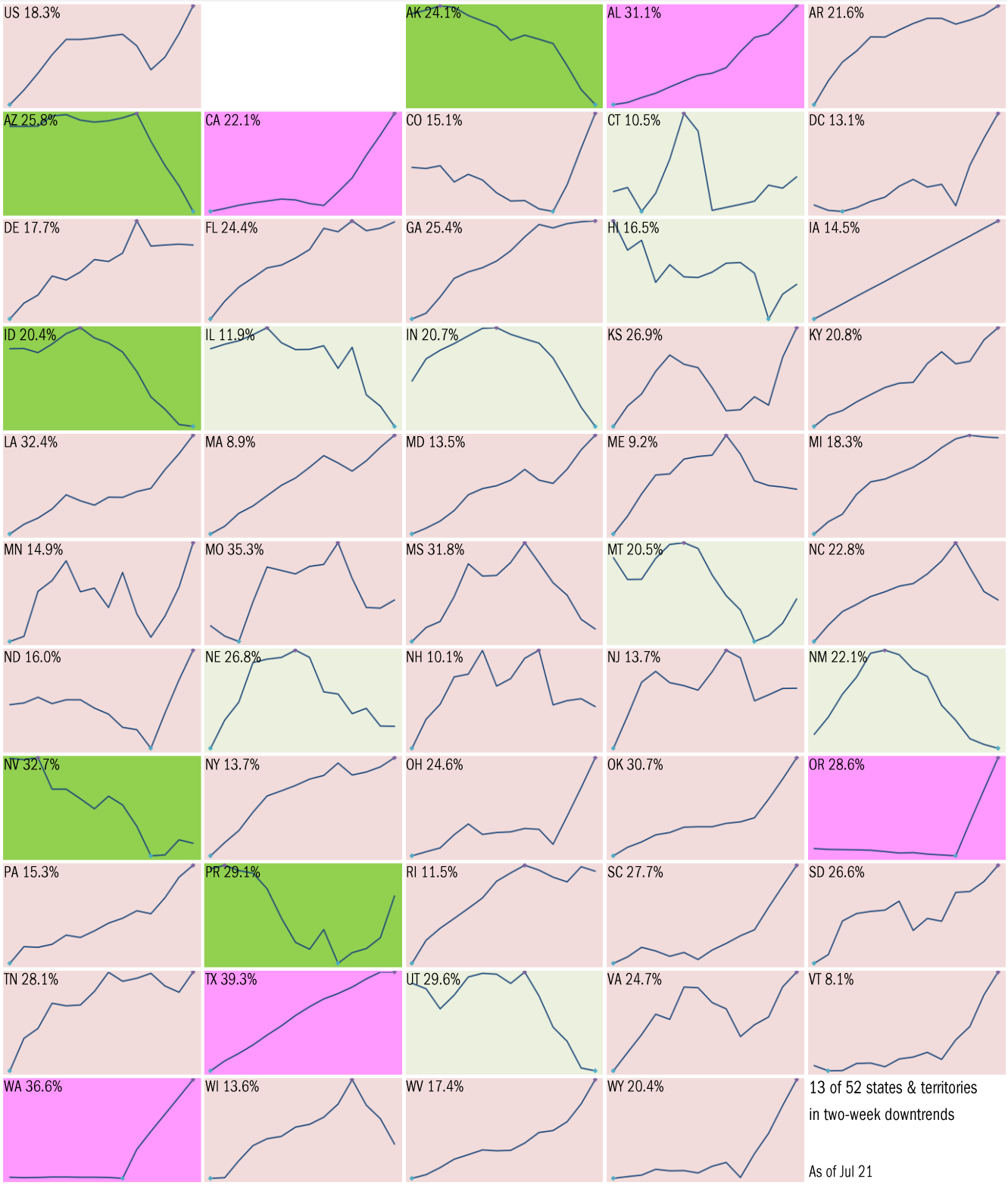


Source: Johns Hopkins, TrendMacro calculations

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

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

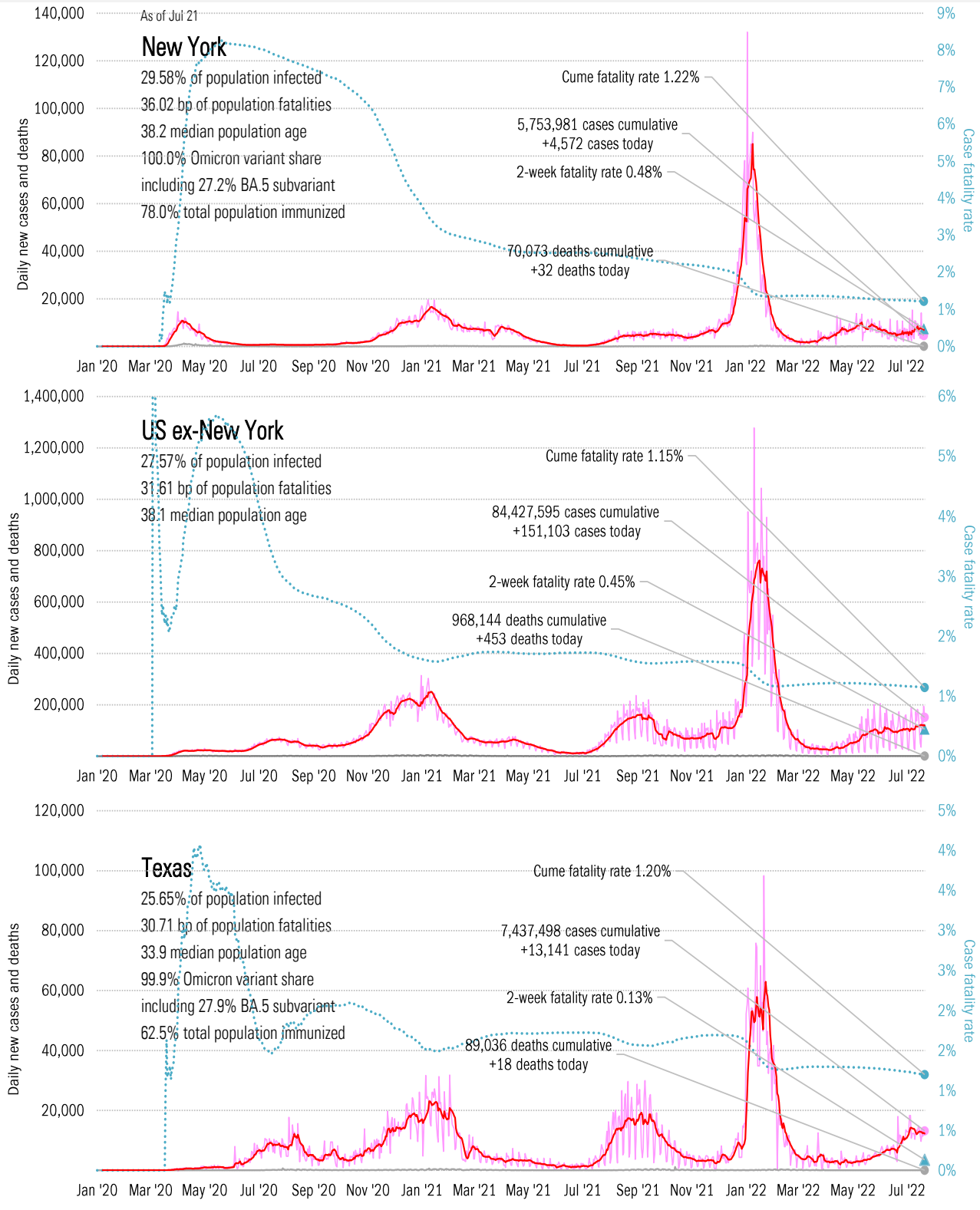
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

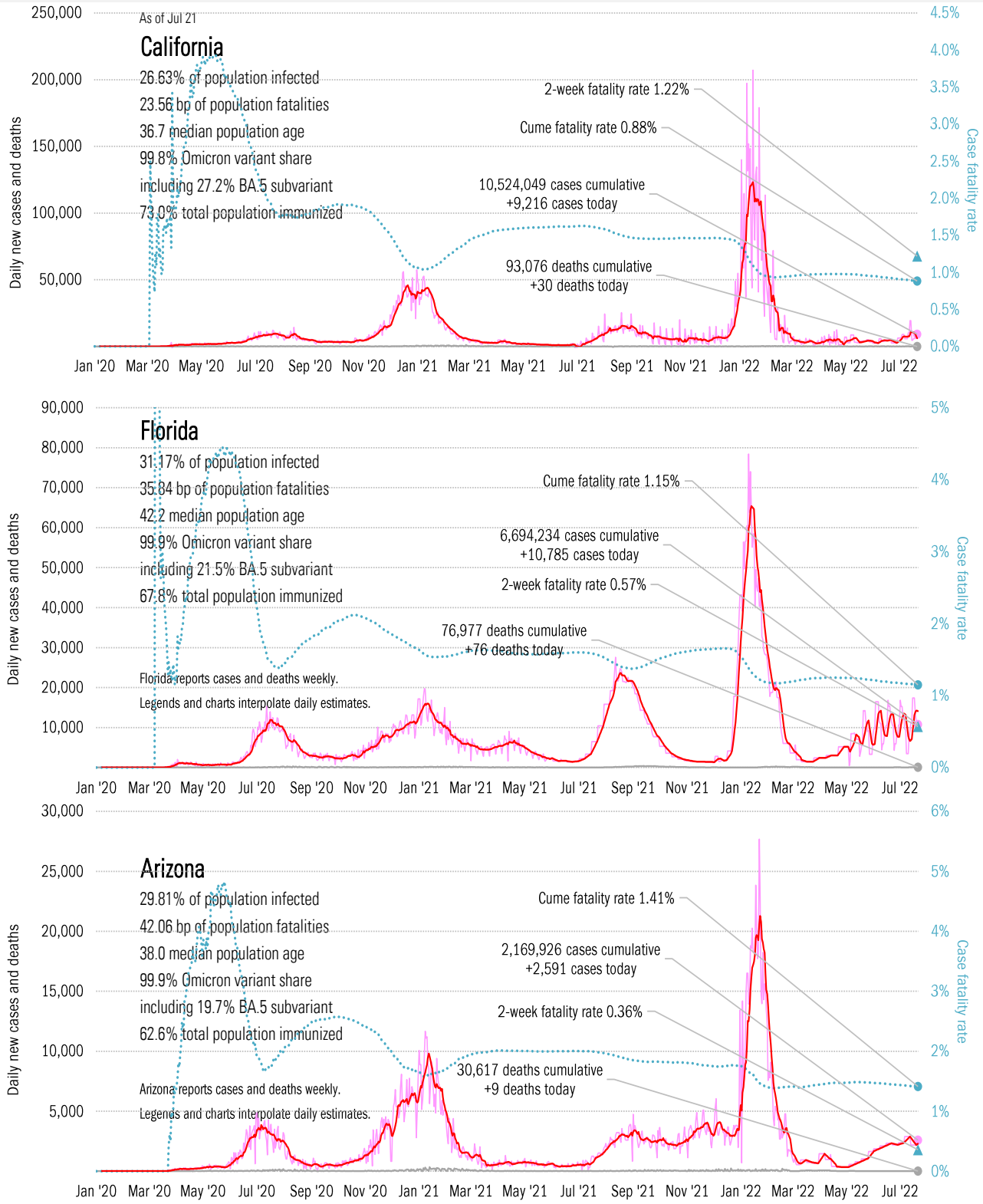
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

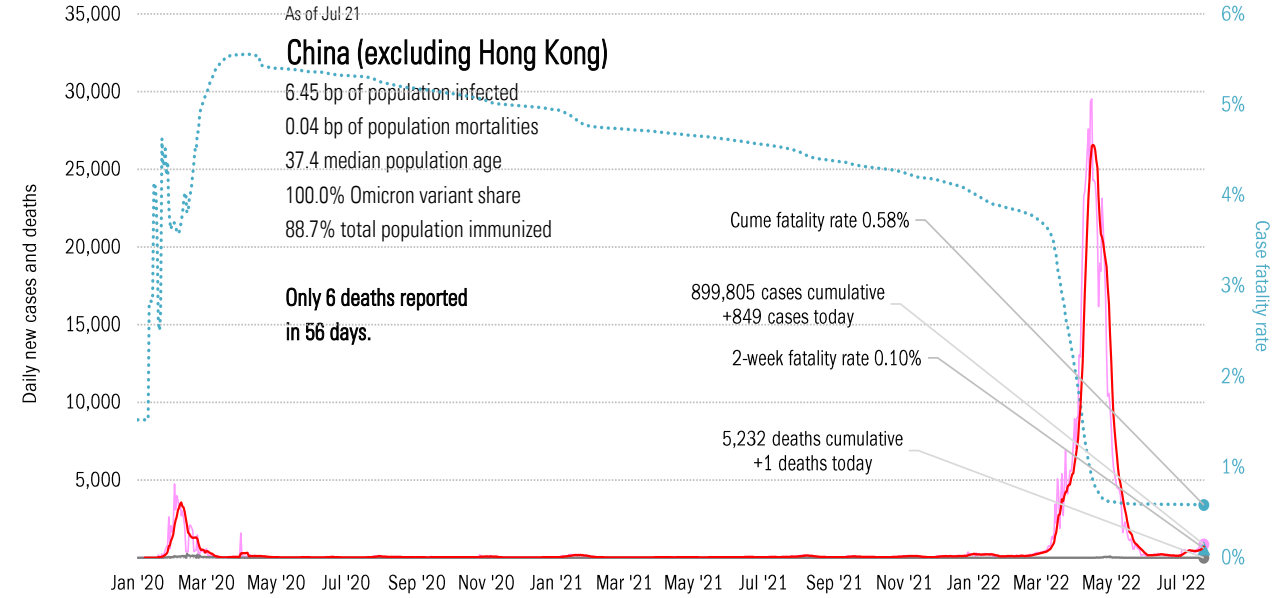
Cases: 7-day average and daily Deaths: Daily

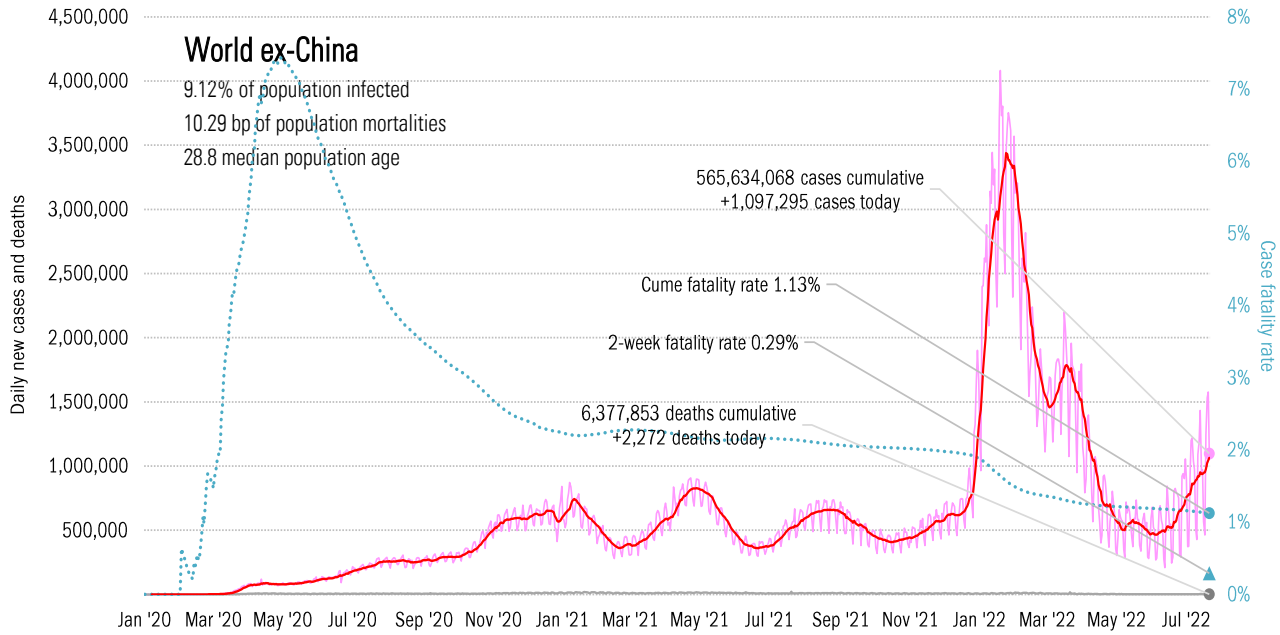


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

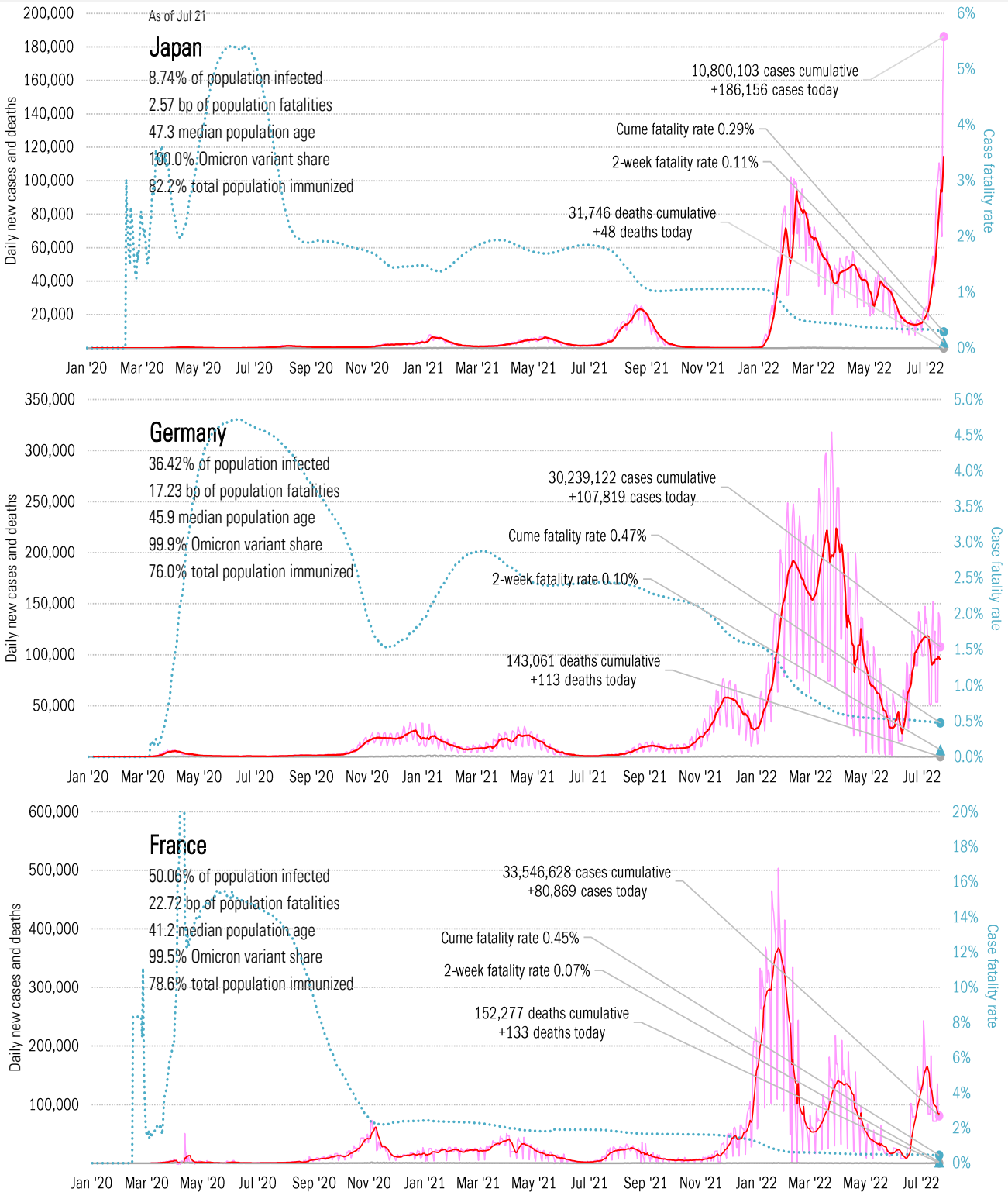




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

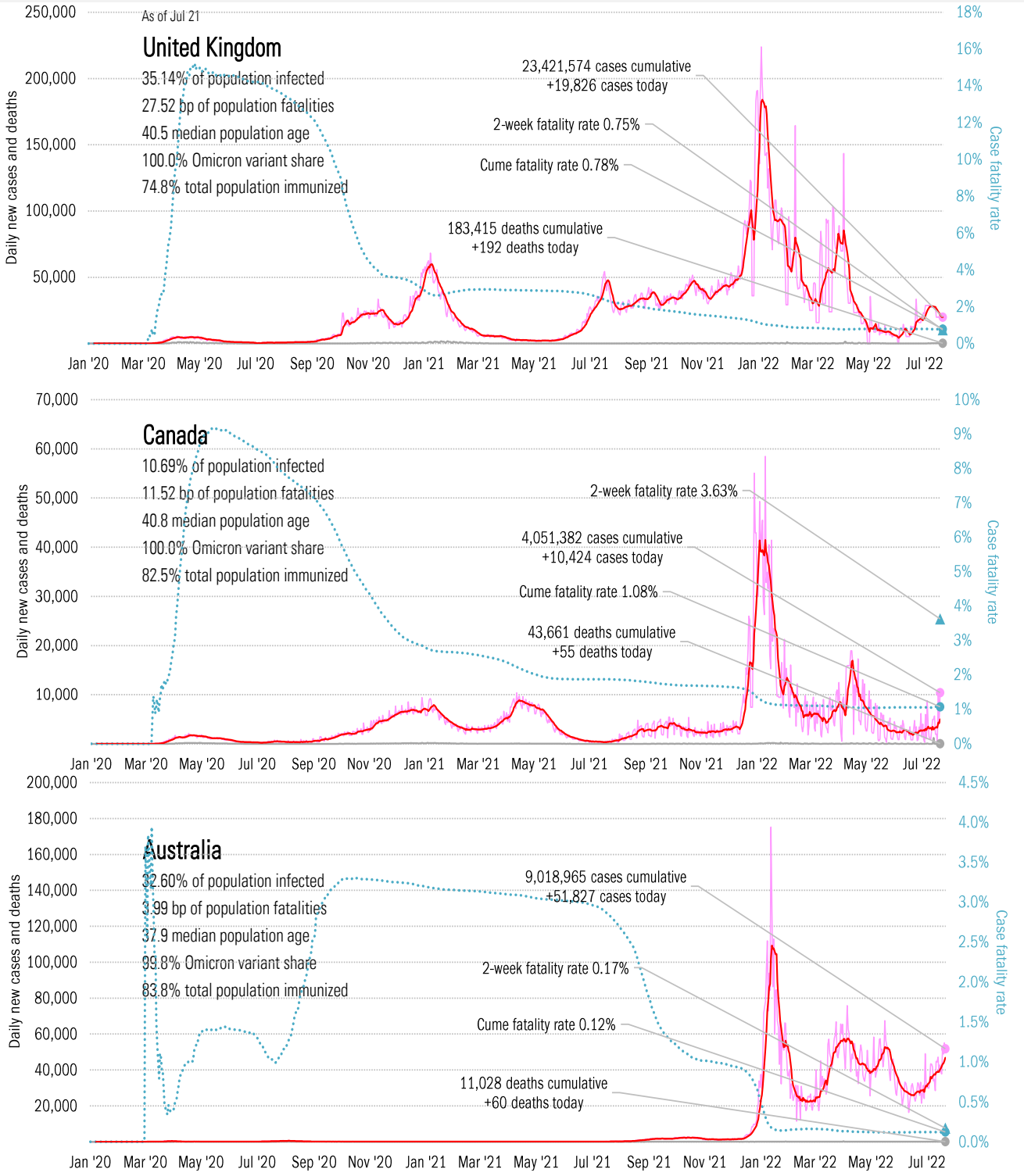
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

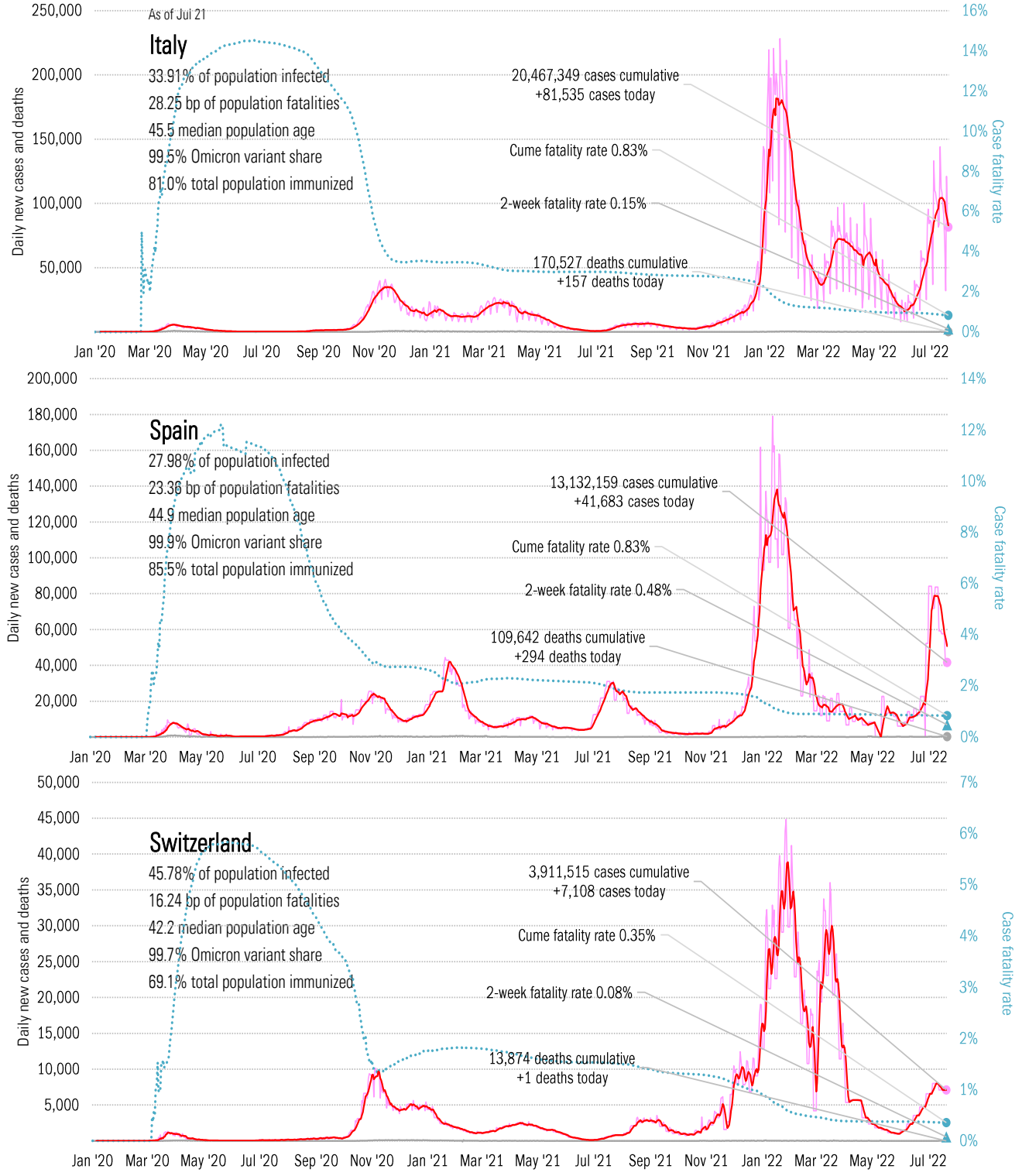
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

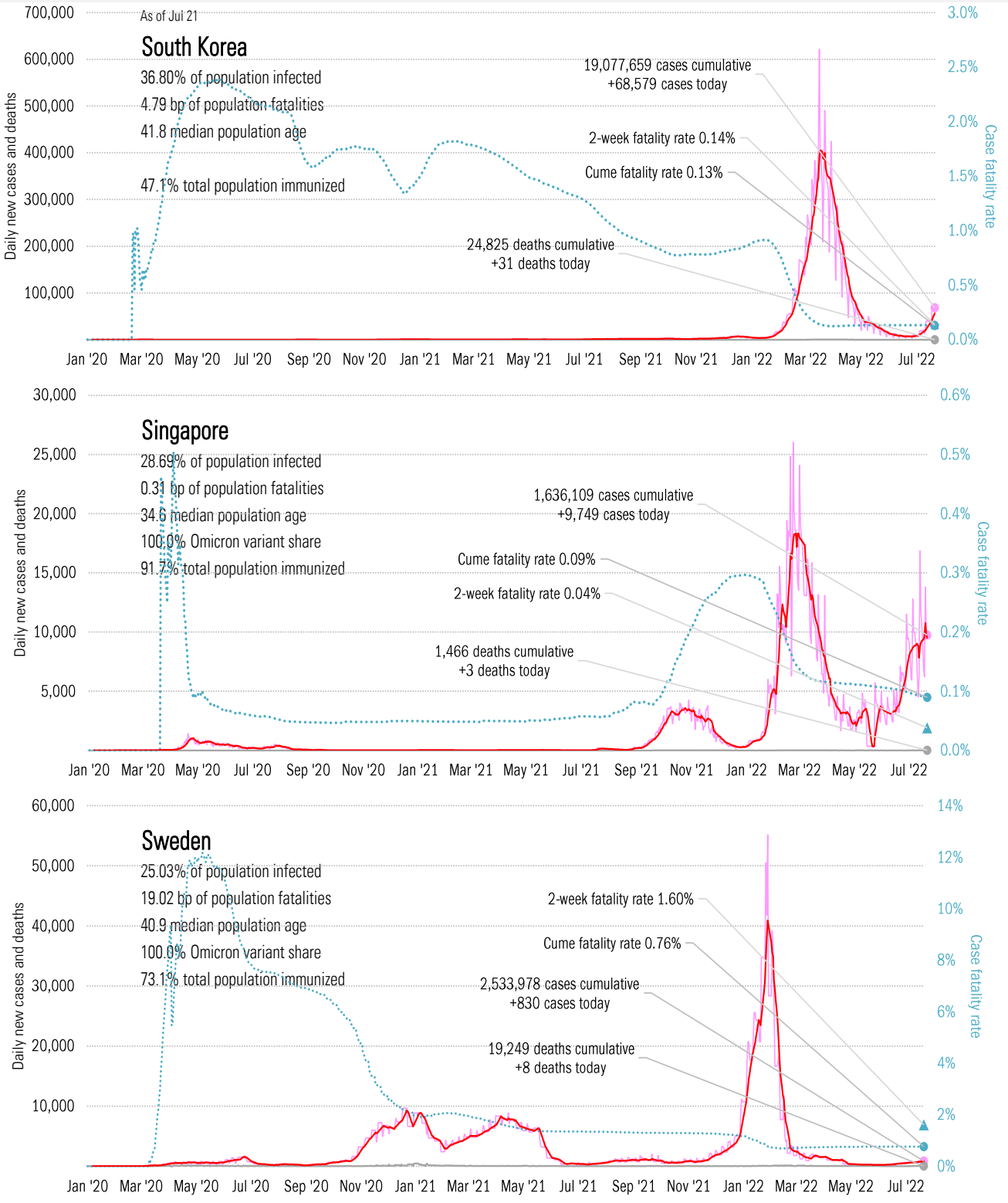
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

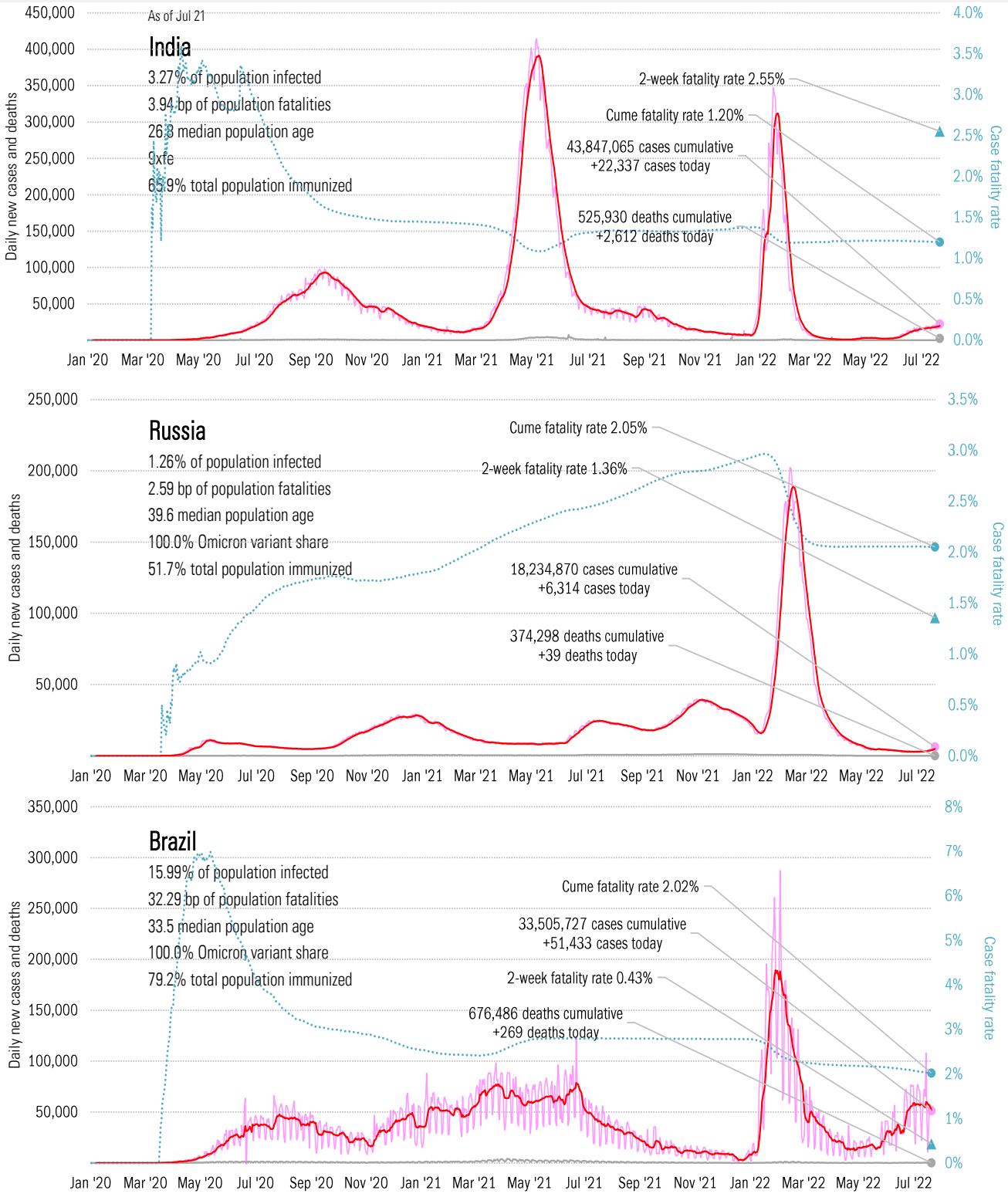
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

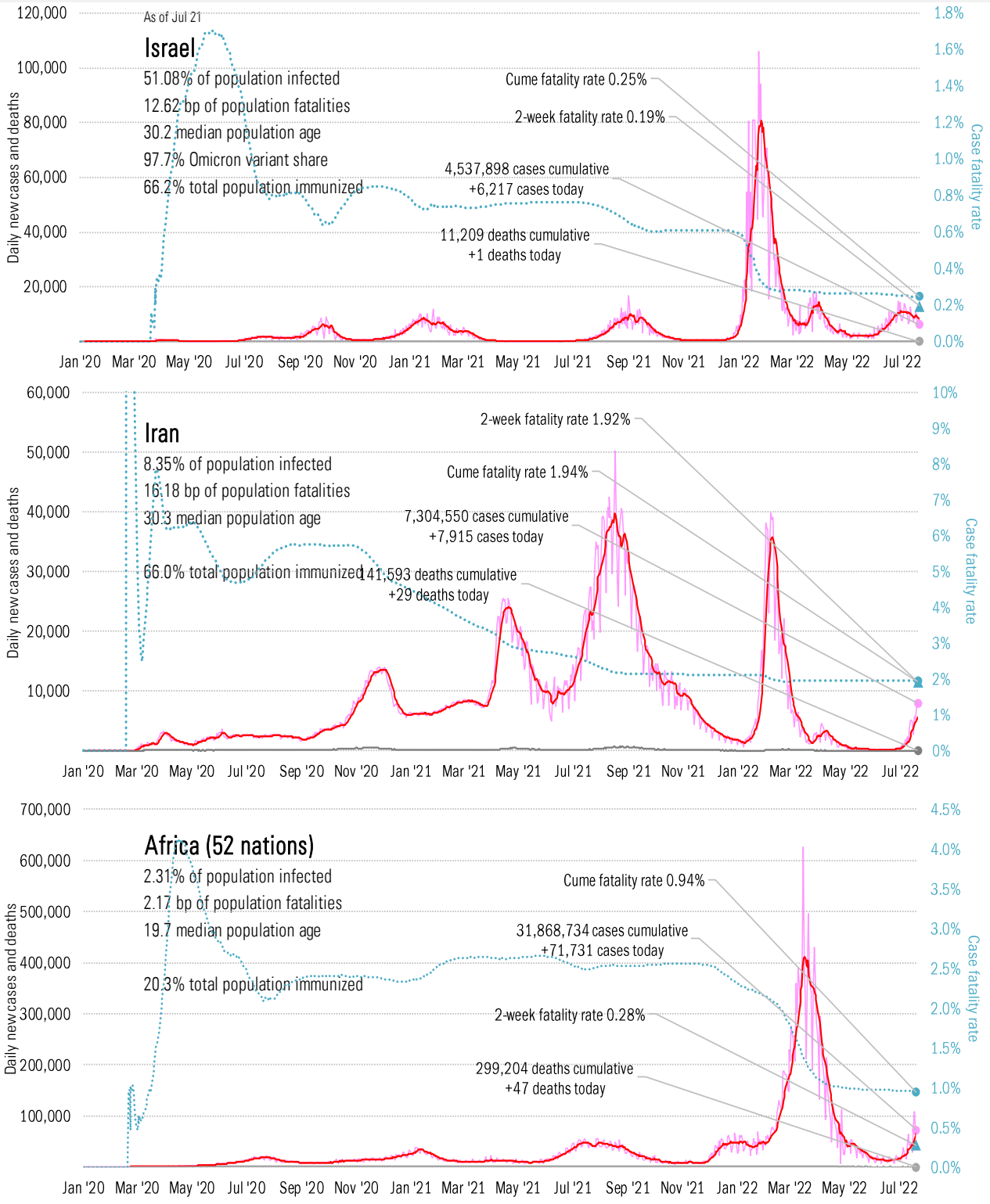
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

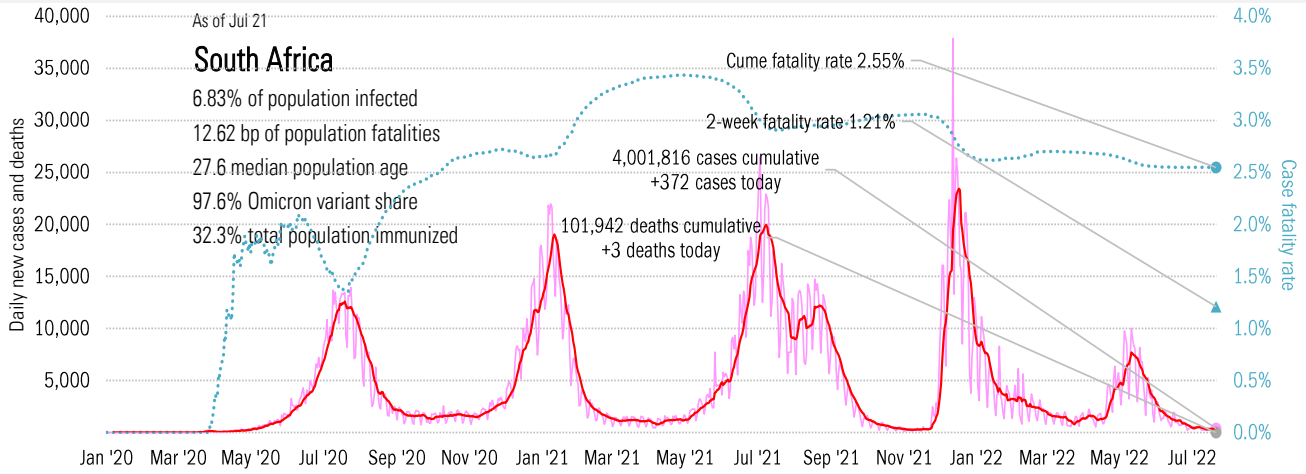
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations