Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

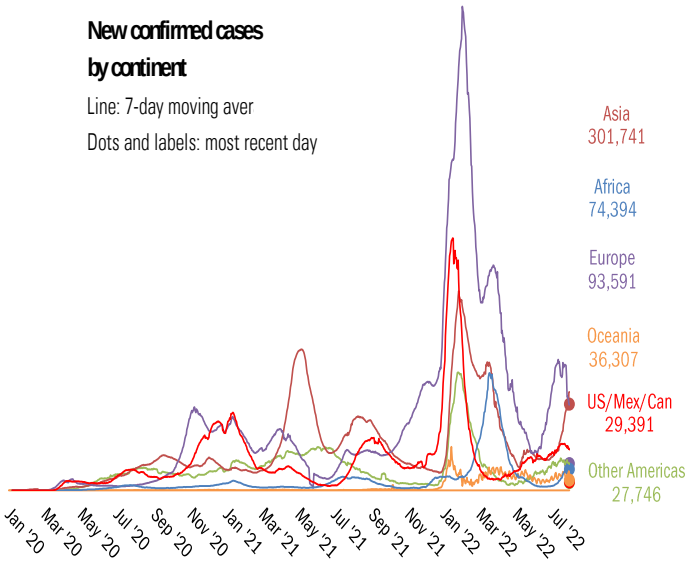
Sunday, July 31, 2022

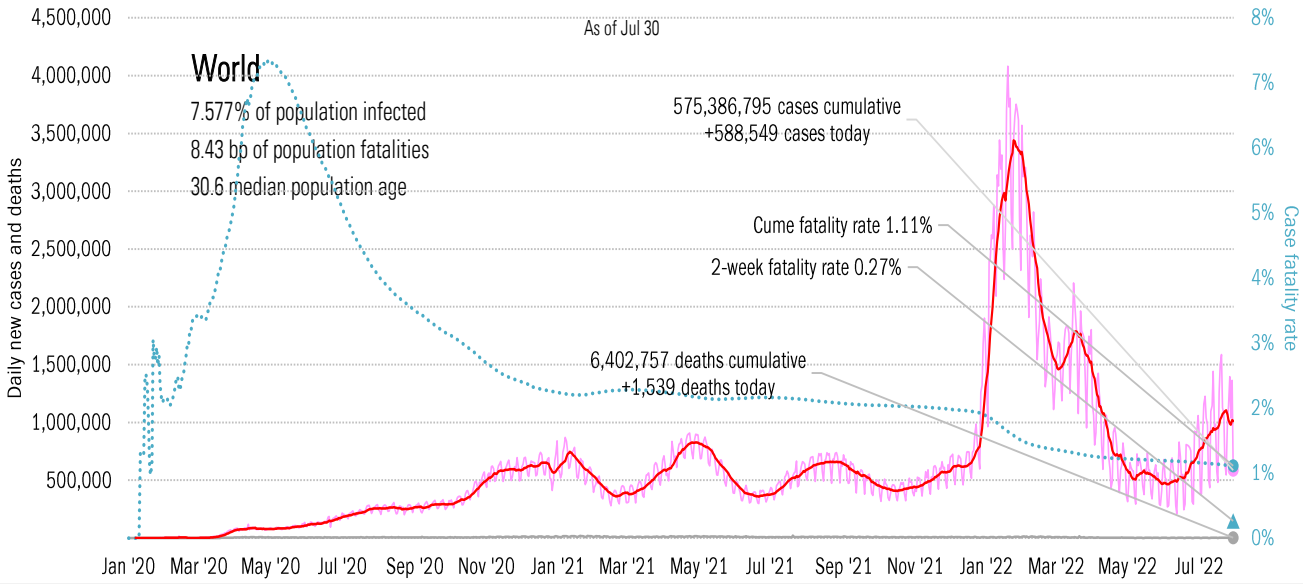
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	222,230	United States	577
United States	211,792	Brazil	173
Korea, South	73,589	Italy	121
Italy	50,297	Japan	101
Australia	31,846	Taiwan*	60
Brazil	22,889	Iran	46
Taiwan*	21,486	India	45
India	19,673	Russia	43
Russia	12,119	Australia	42
Chile	9,188	Peru	41
	675,109		1,249
World	588,549	World	1,539
Top ten	115%	Top ten	81%





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

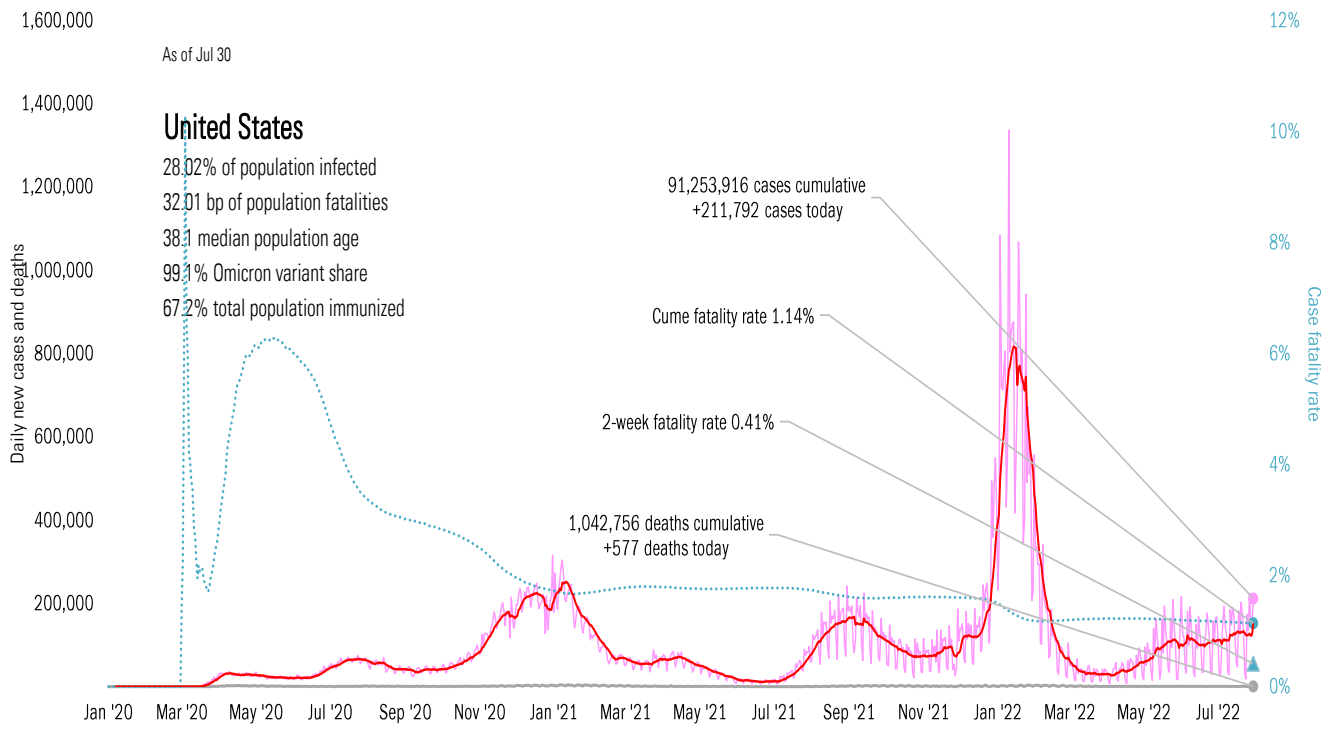
New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	43,390	AL	0	GA	318	CA	10,702,564	CA	93,491	TX	521,401	RI	92%	RI	88%
OH	29,876	AS	0	FL	769	TX	7,533,973	TX	89,260	CA	470,601	GA	88%	DE	87%
FL	16,703	CA	0	PA	237	FL	6,781,483	FL	77,541	FL	464,612	MA	87%	TX	84%
TX	13,108	CO	0	TX	666	NY	5,814,780	NY	70,269	NY	281,139	MN	85%	AL	83%
MO	11,500	CT	0	NY	373	IL	3,563,653	PA	46,164	GA	216,066	MD	84%	NC	81%
KS	7,359	DE	0	KY	123	PA	3,080,593	GA	39,050	OH	205,637	WA	84%	NE	81%
IL	5,913	AS	0	MI	156	NC	2,983,130	OH	39,035	PA	192,308	MO	83%	DC	81%
IN	5,438	CA	0	VA	146	OH	2,948,242	IL	38,882	IL	174,920	DE	83%	MA	80%
NC	4,847	CO	0	OR	70	GA	2,750,915	MI	37,428	MI	153,451	WV	82%	WA	80%
NJ	4,748	CT	0	NE	42	MI	2,672,312	NJ	34,253	KY	138,862	MI	81%	UT	79%
	142,882		99		2,900		48,831,645		565,373		2,818,997				
All states	211,792		577		6,652	All states	91,253,916		1,042,756		5,116,297	All states	70%		67%
Top ten	67%		17%		44%	Top ten	53%		55%		55%	Median	76%		73%

US state fatality data distorted today due to revisions.

Some states not reporting

Five most improved US states

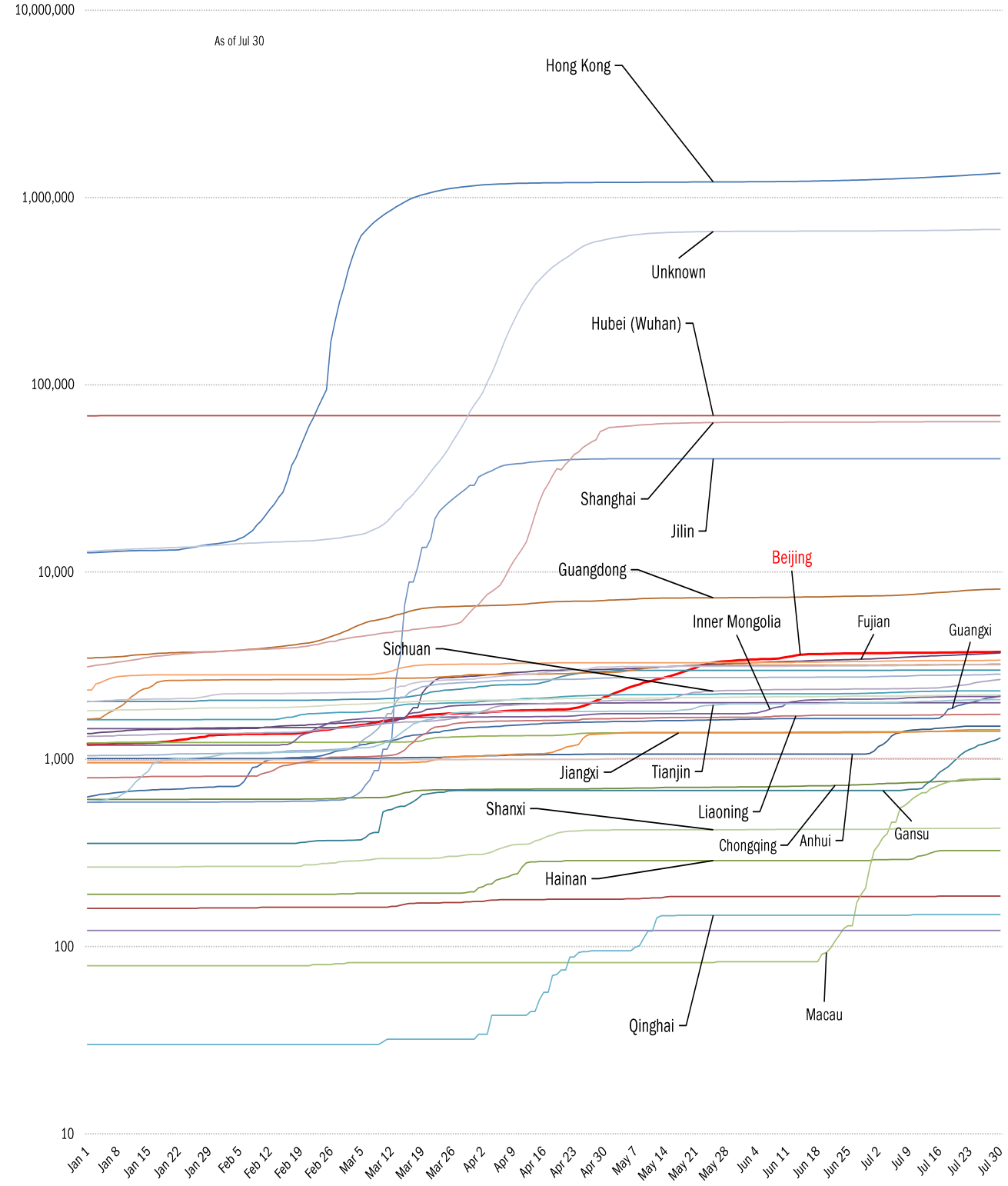
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
NY	-534	CA	-119	CA	-76
CT	-138	TX	-56	NV	-39
ME	-133	MO	-47	SC	-36
AK	0	FL	-30	MO	-35
AL	0	OR	-29	IL	-27



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

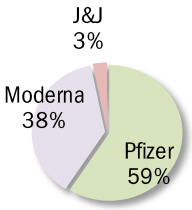
Rolling out the vaccines in the US and the world

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

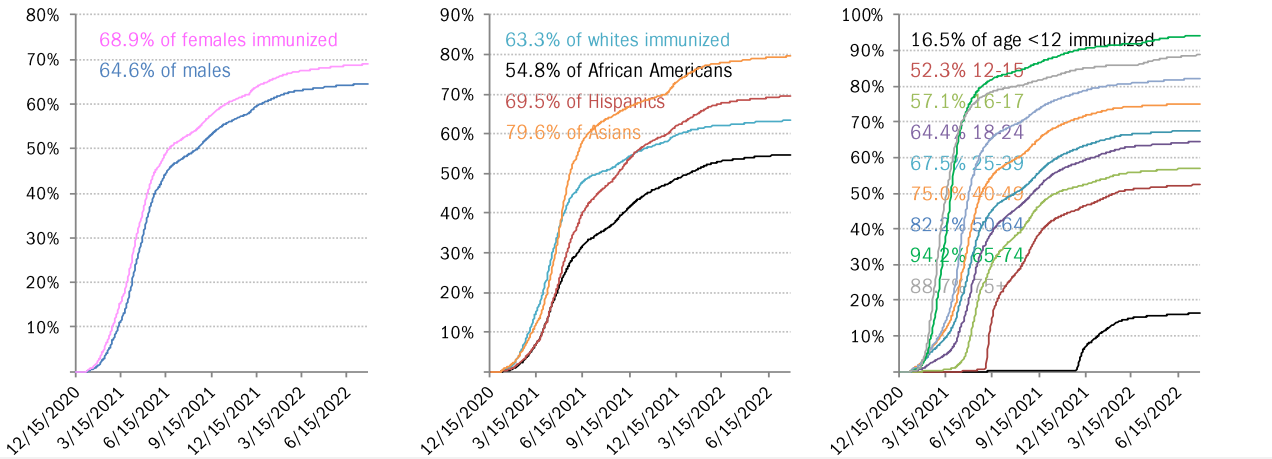
"Immunity" = two doses

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%

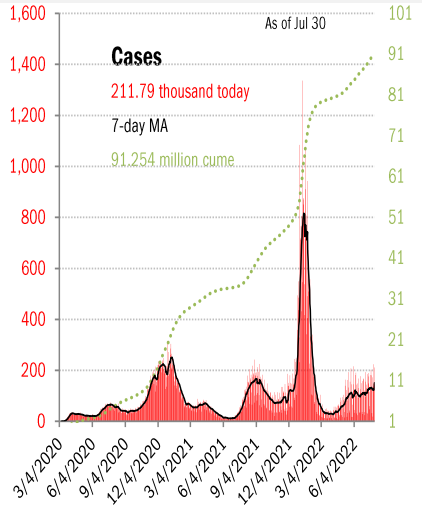
The demographics of US vaccination

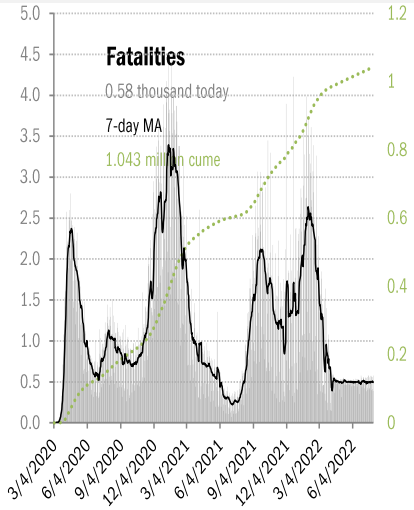


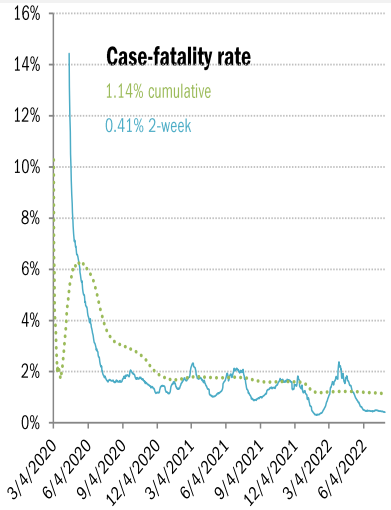
Source: CDC, CDC, Our World in Data, TrendMacro calculations

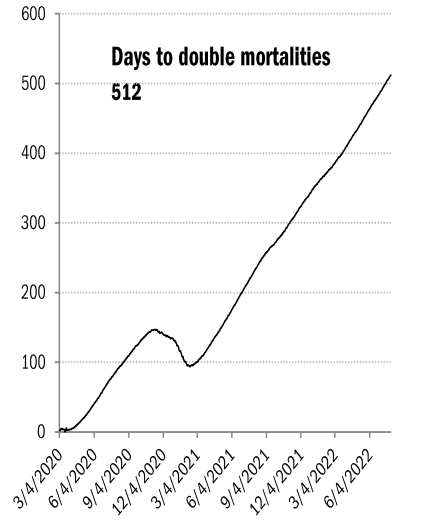
US deep-dive

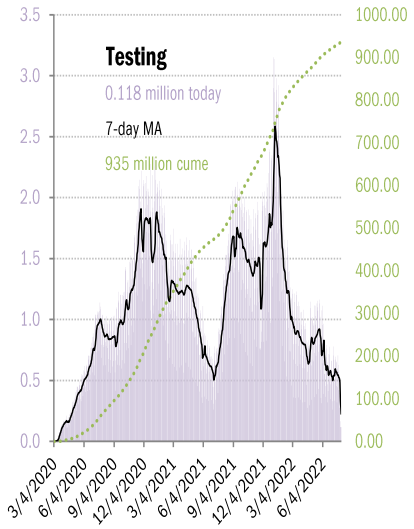
National and state-by-state data do not line up because of different sources

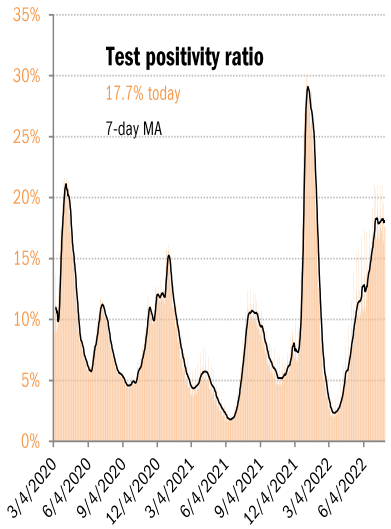


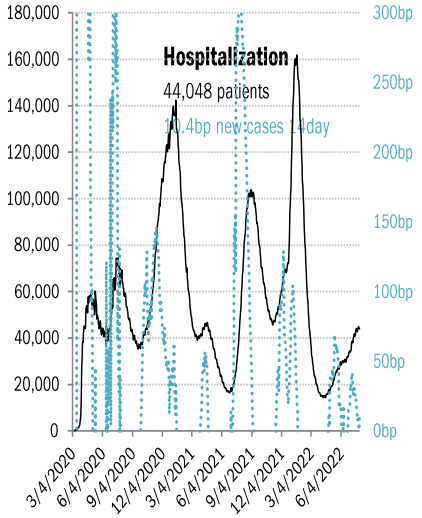


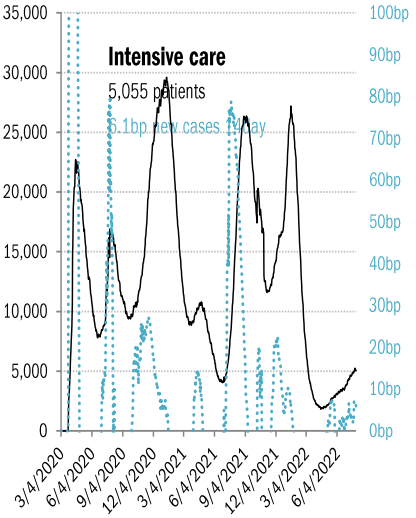


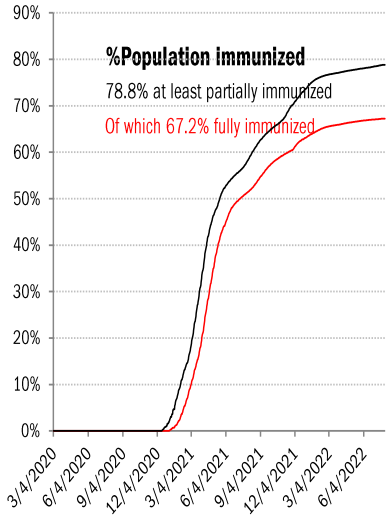












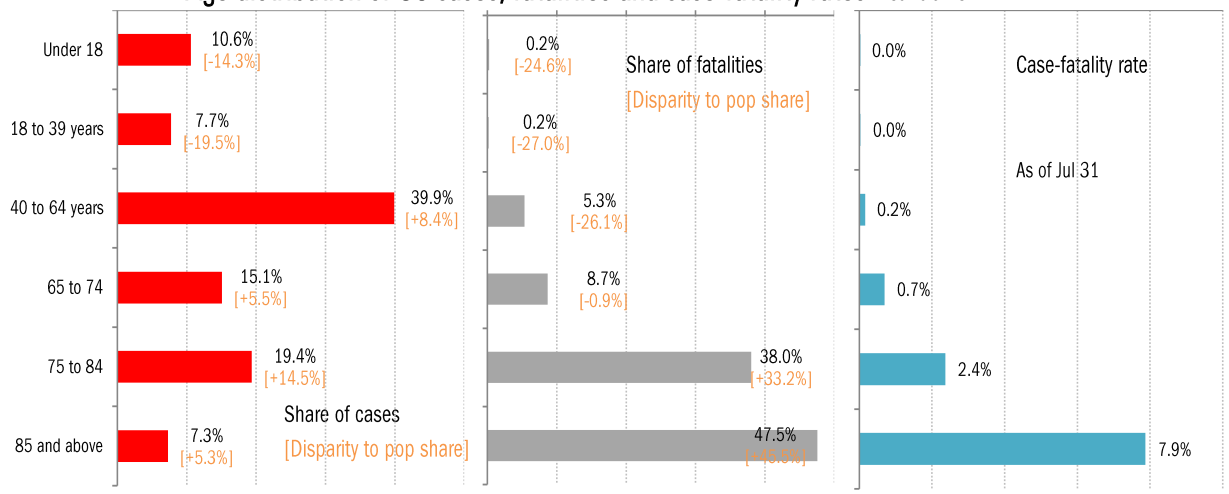
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

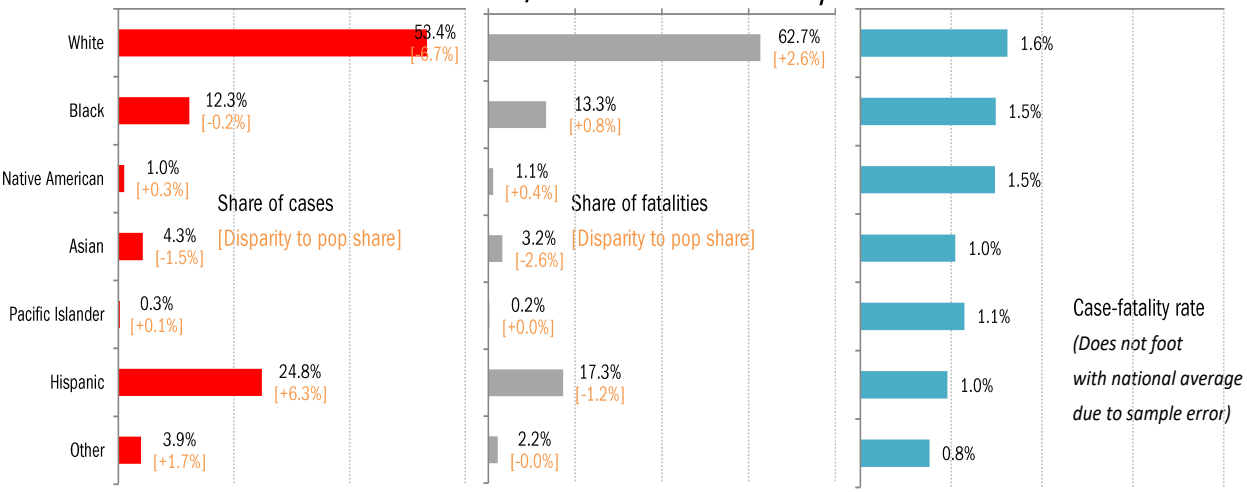
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



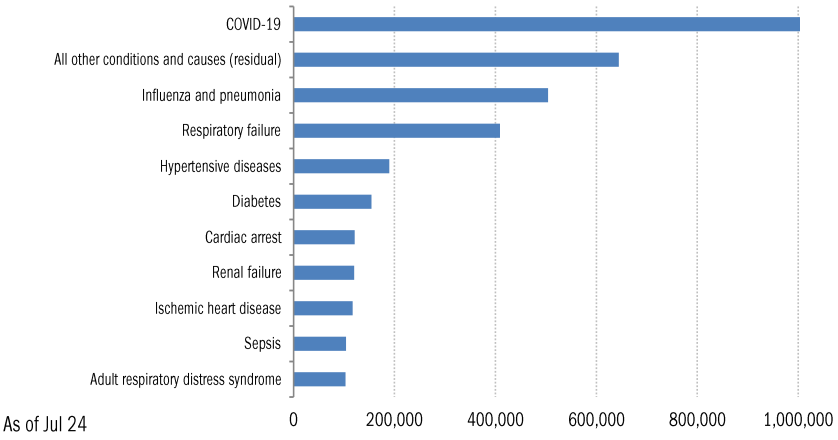
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jul 24

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

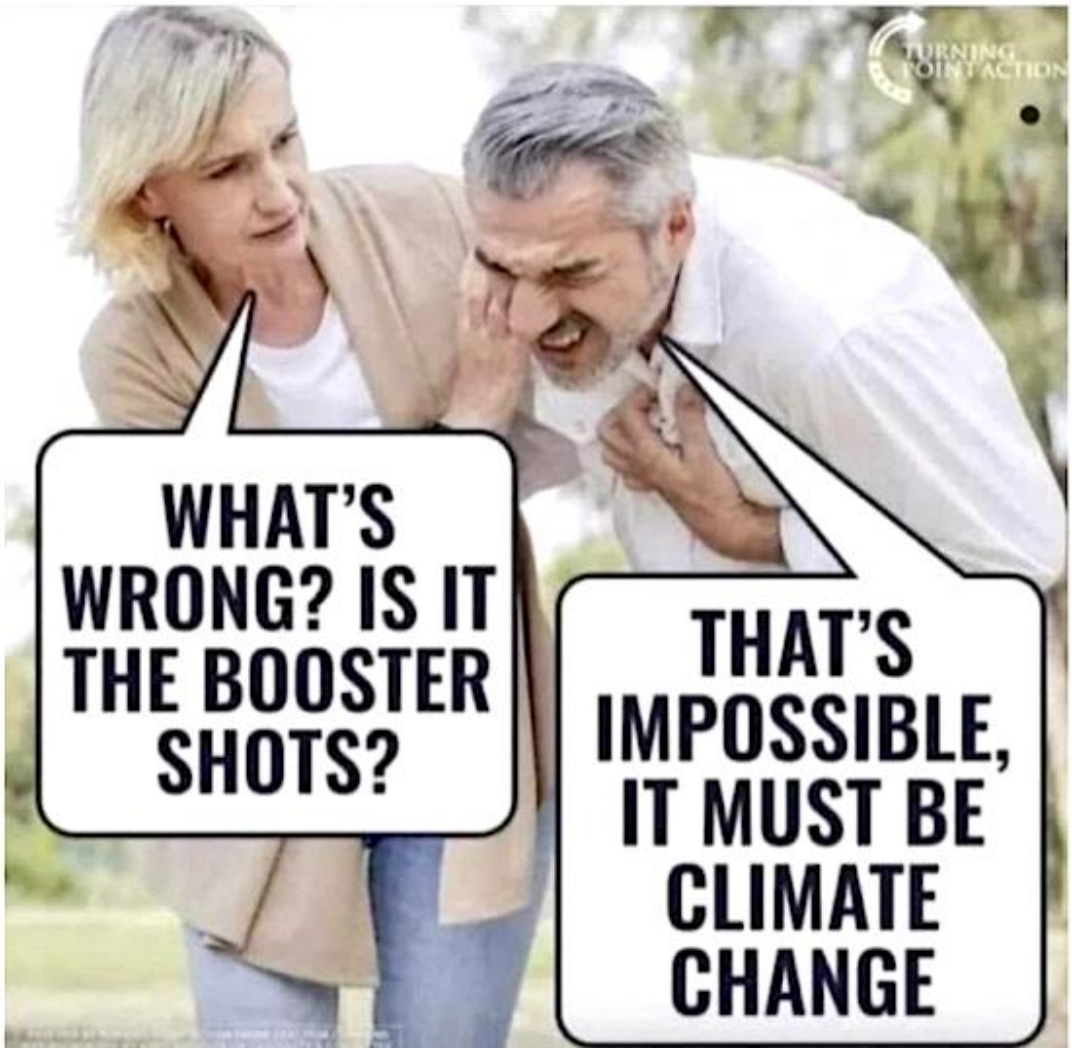
Recommended reading

[Biden tested positive for COVID again after taking Paxlovid. That was a known risk]
Bill Chappell
NPR
July 30, 2022

[President Biden Tests Positive for Covid-19 Again]
Andrew Restuccia
Wall Street Journal
September 30, 2022

[Catch-22, mRNA-style]
Alex Berenson
Unreported Truths
July 30, 2022

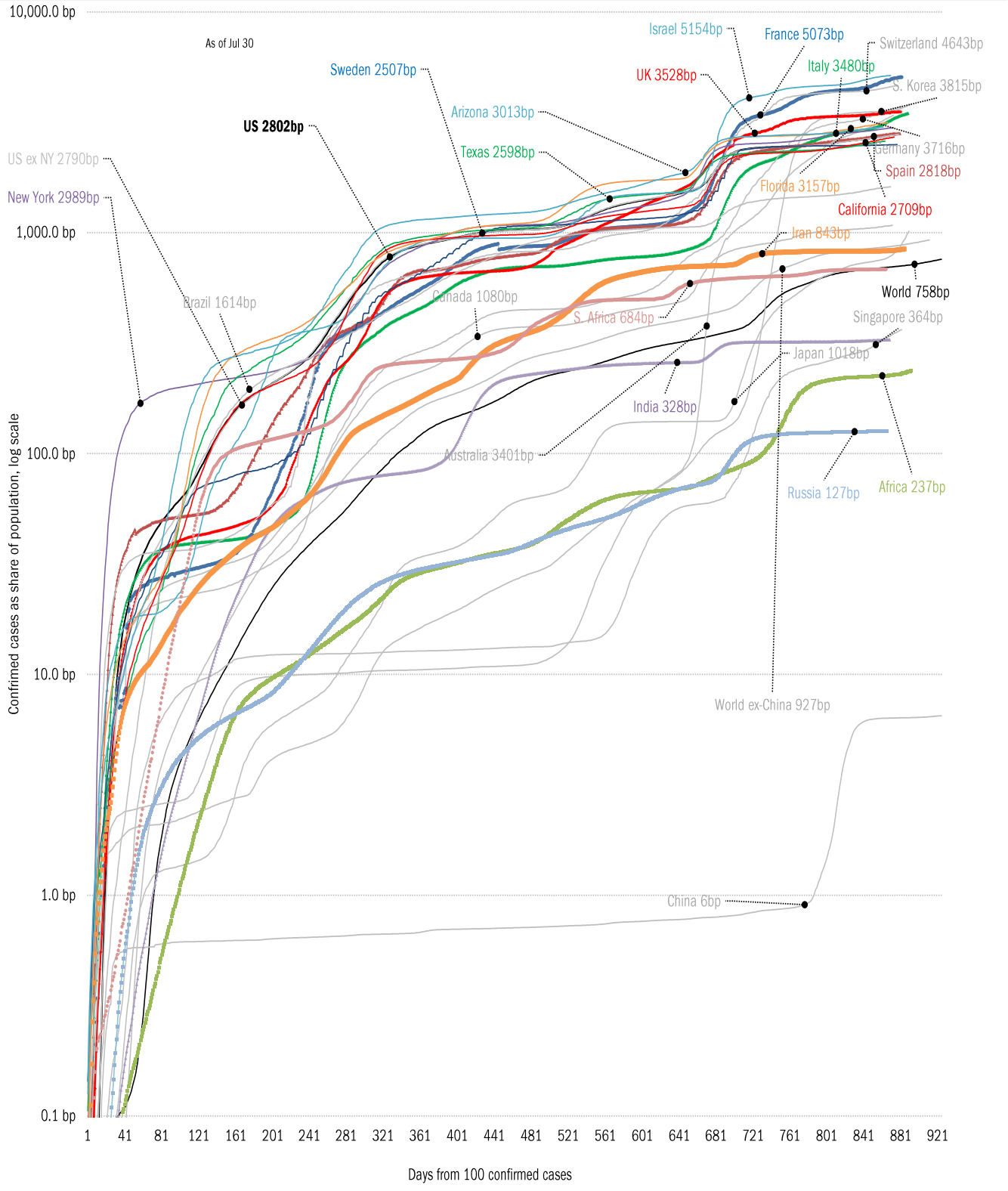
Meme of the day



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

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

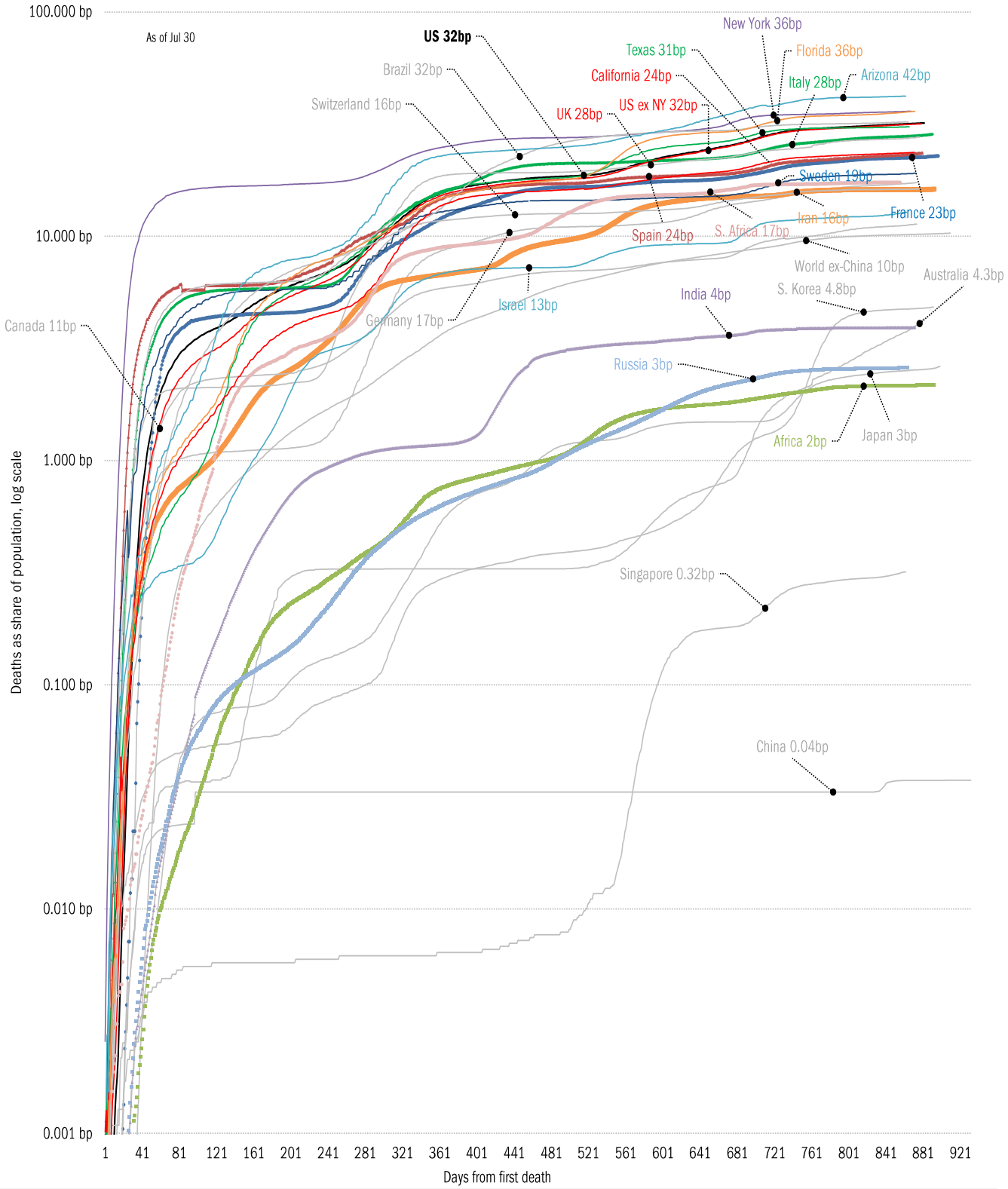
Share of infected population from first day with 100 confirmed cases, log scale



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

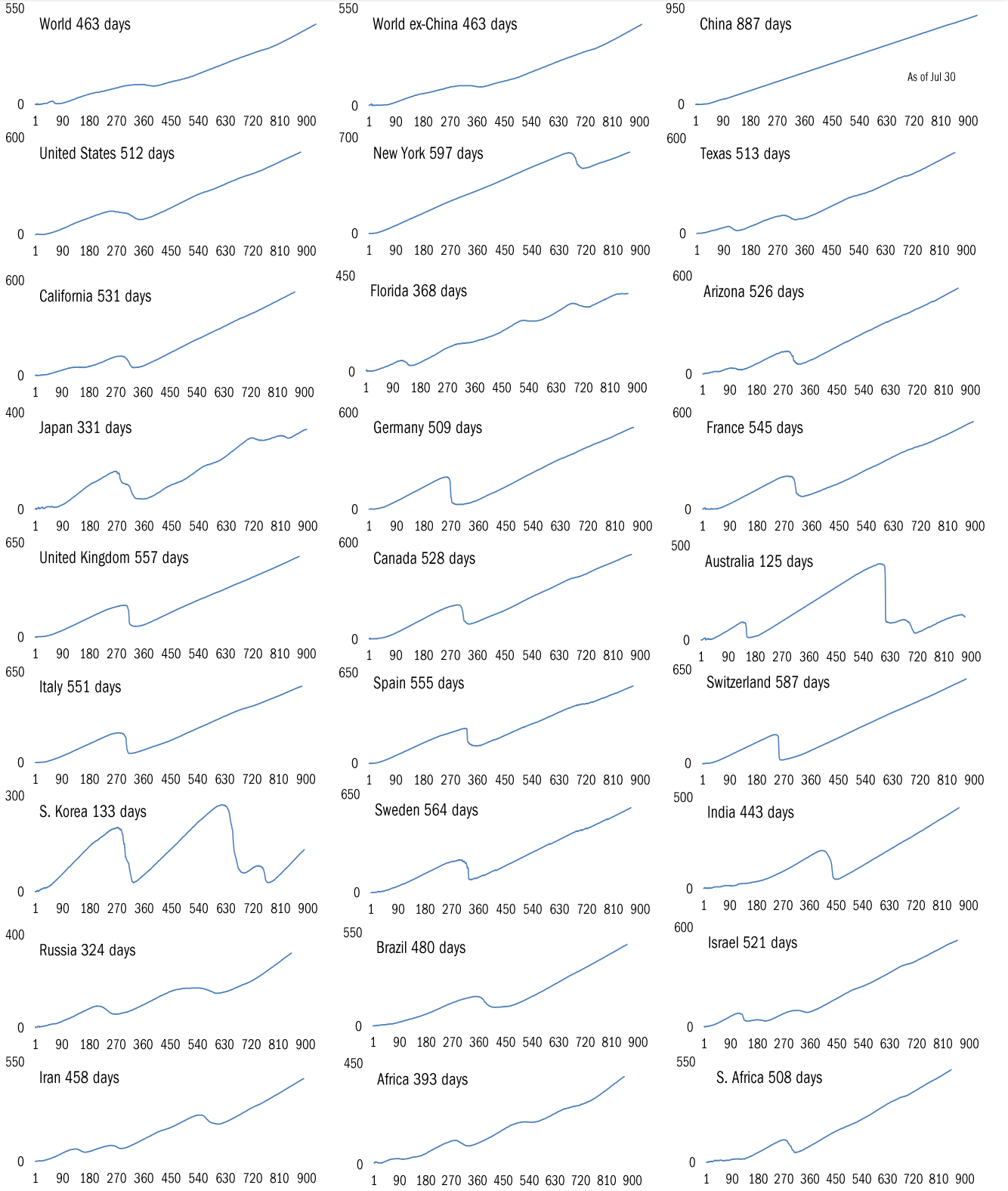


Source: Johns Hopkins, TrendMacro calculations

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

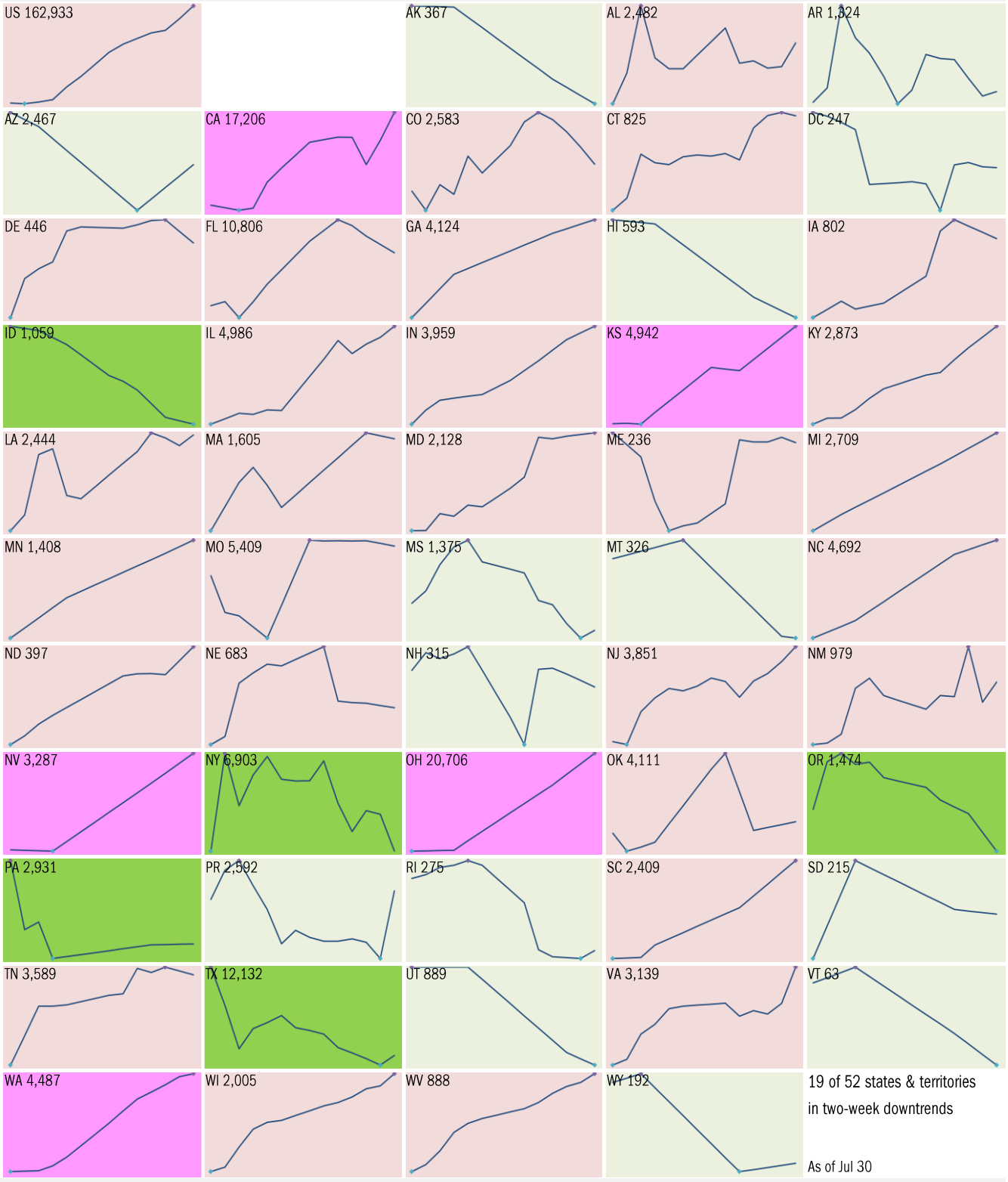


Source: Johns Hopkins, TrendMacro calculations

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

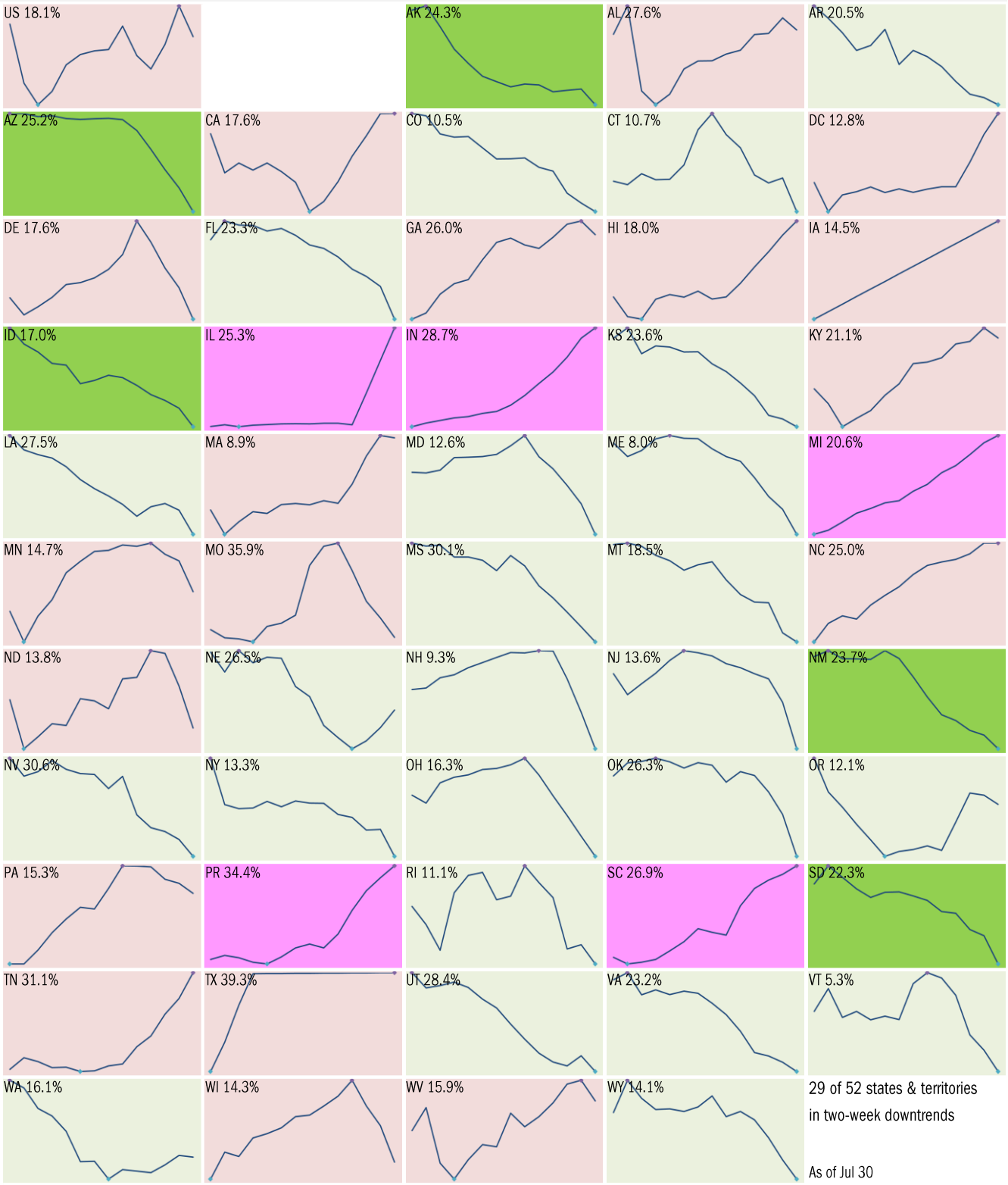


Source: Johns Hopkins, TrendMacro calculations

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

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

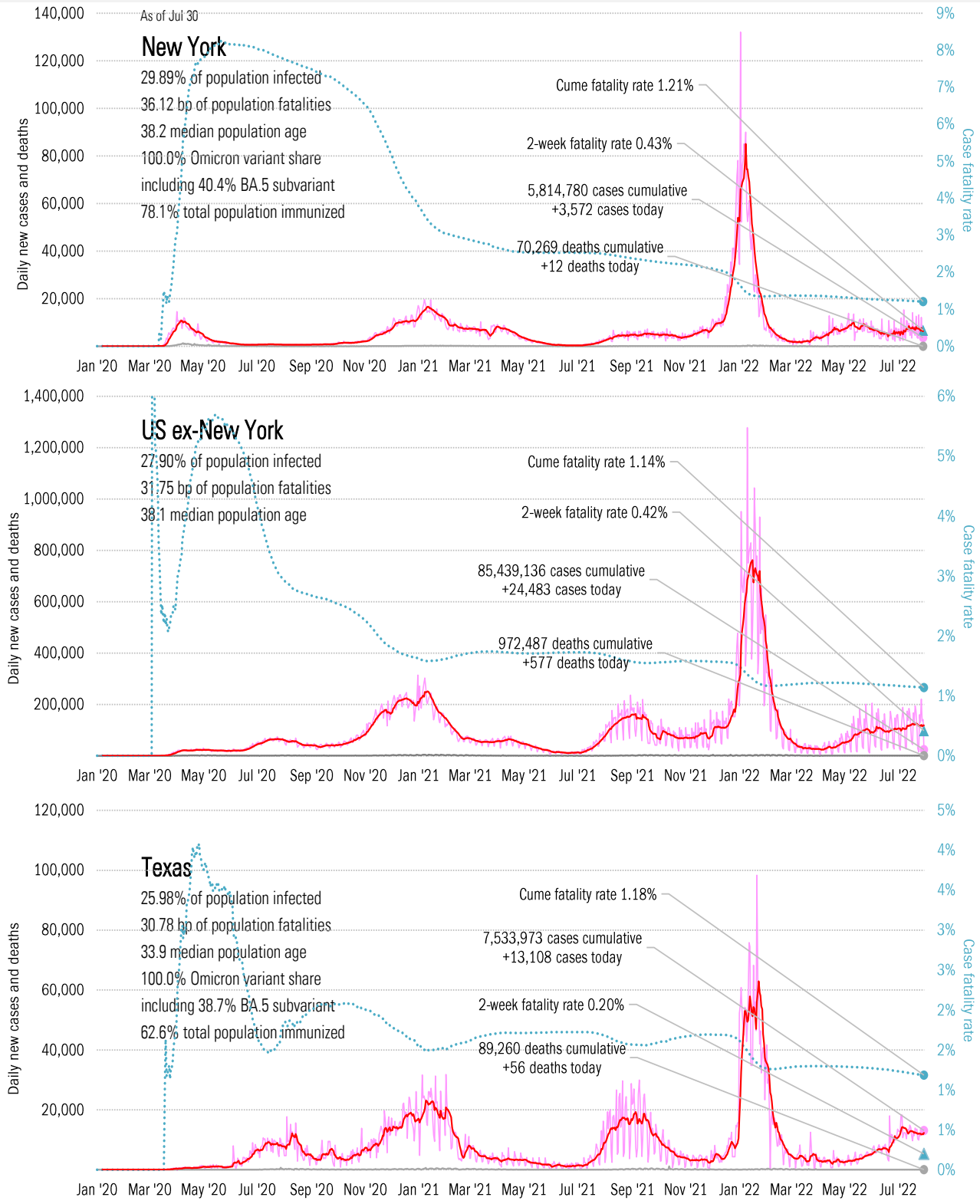
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

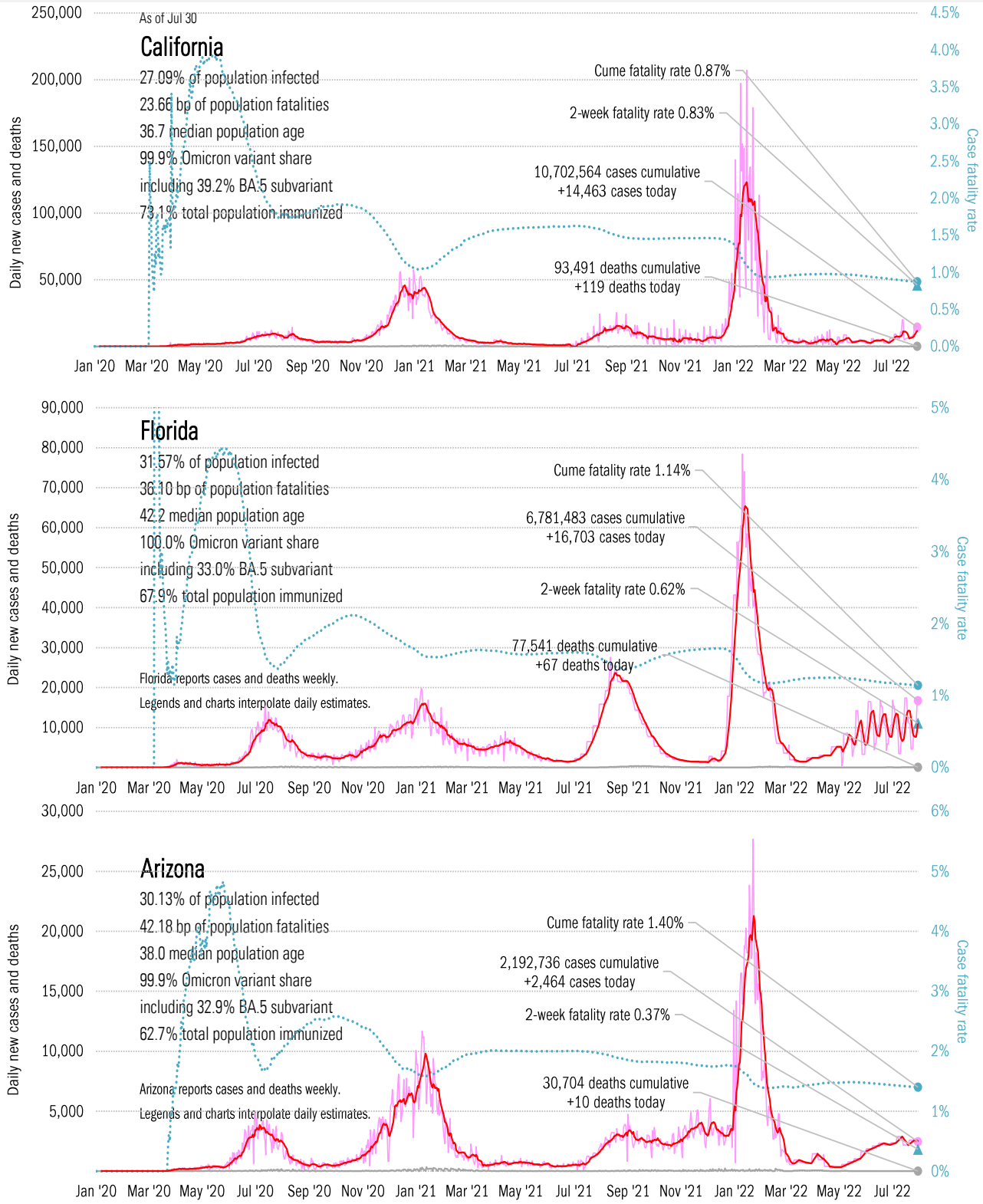
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

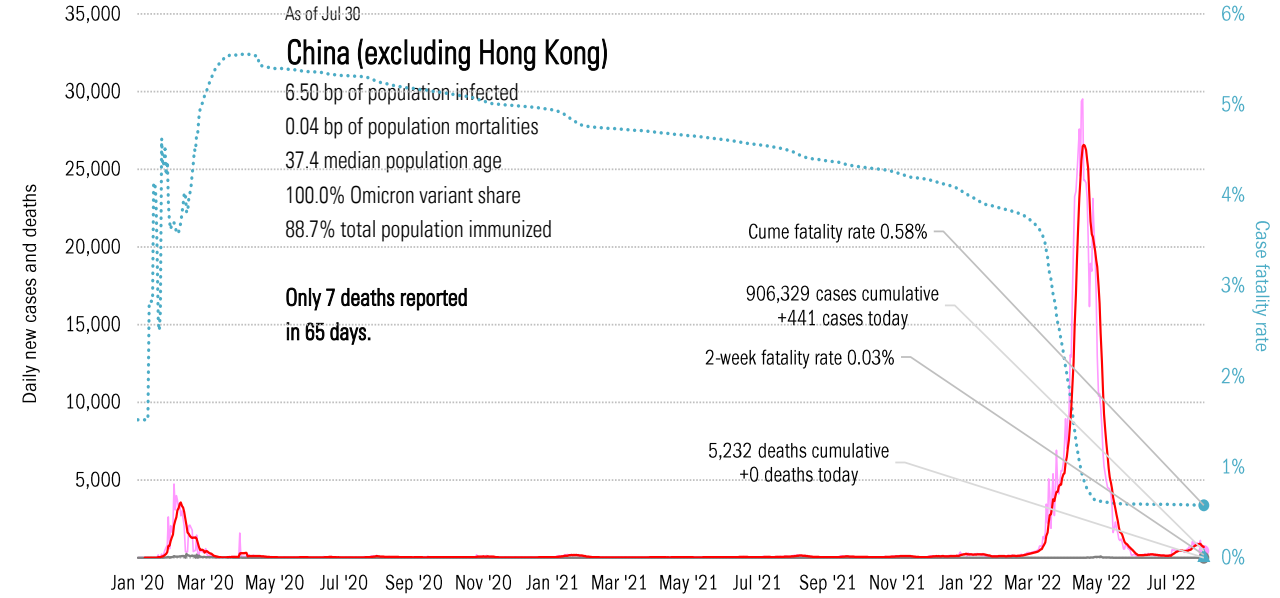
Cases: 7-day average and daily Deaths: Daily

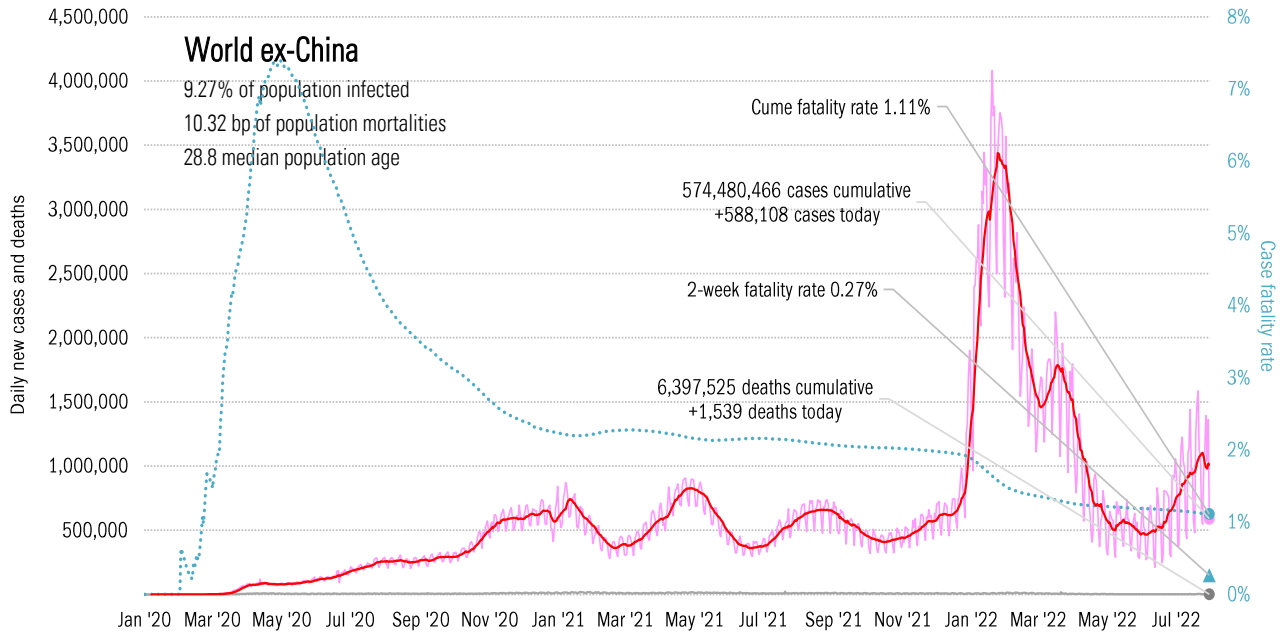


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

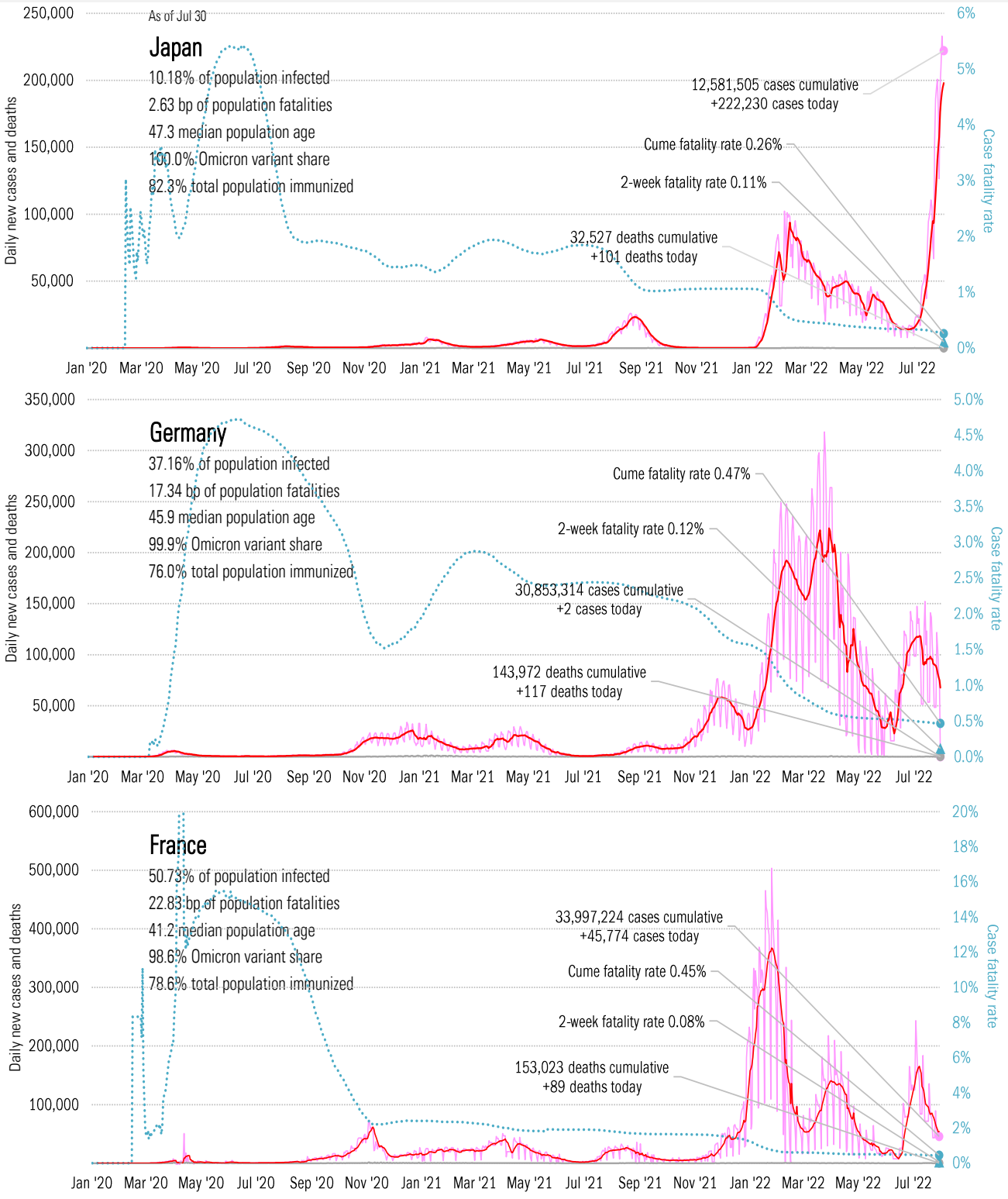




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

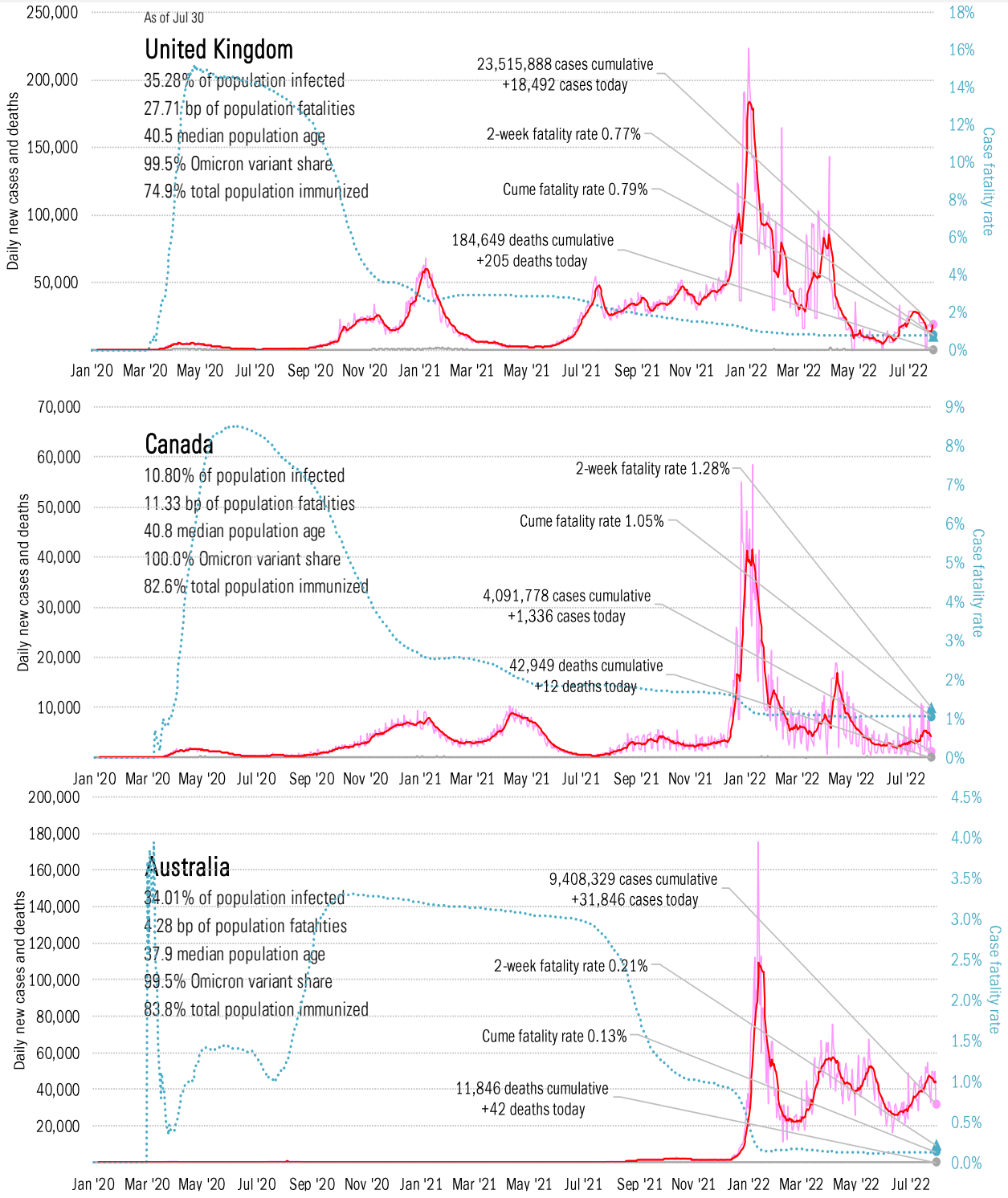
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

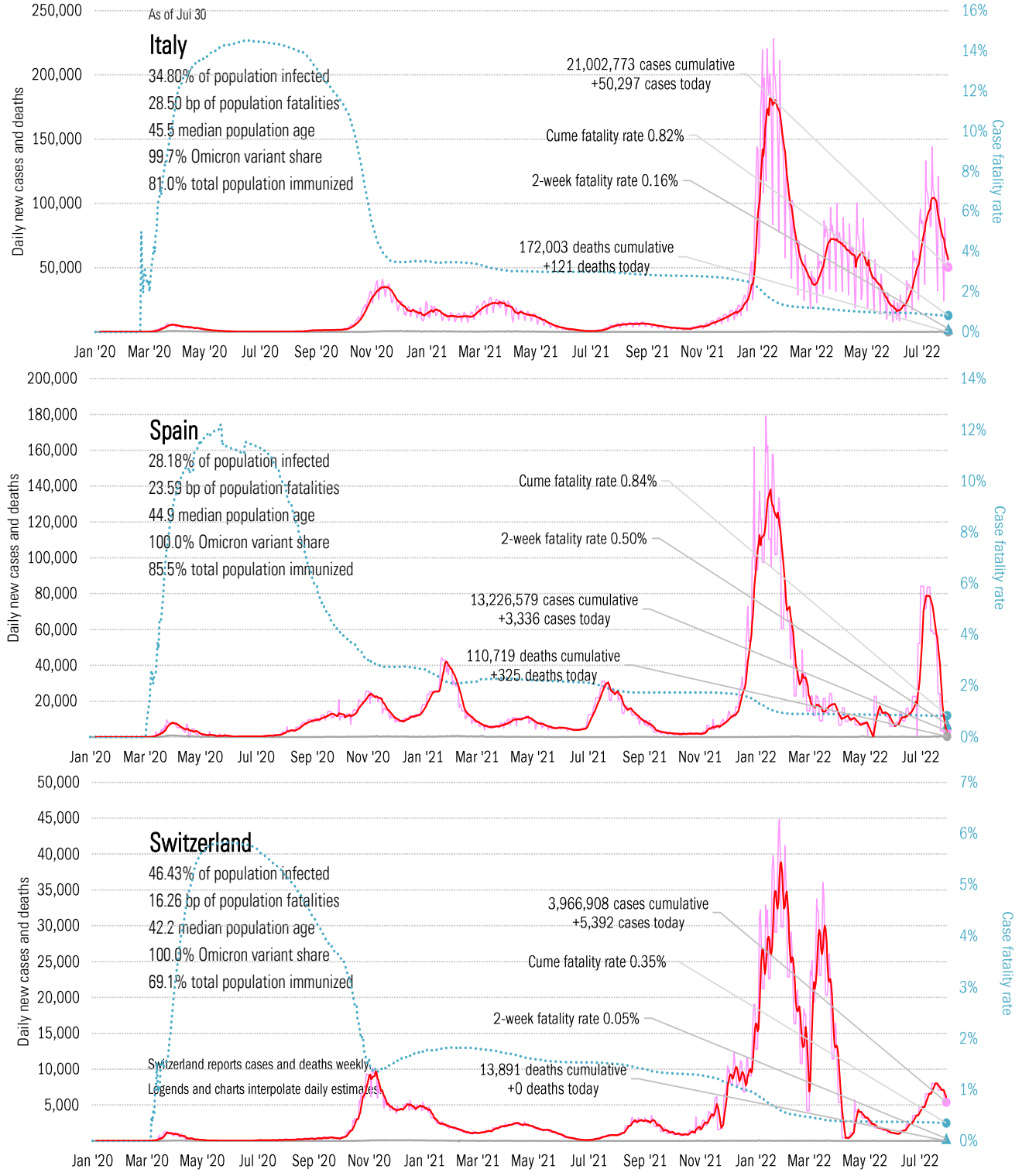
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

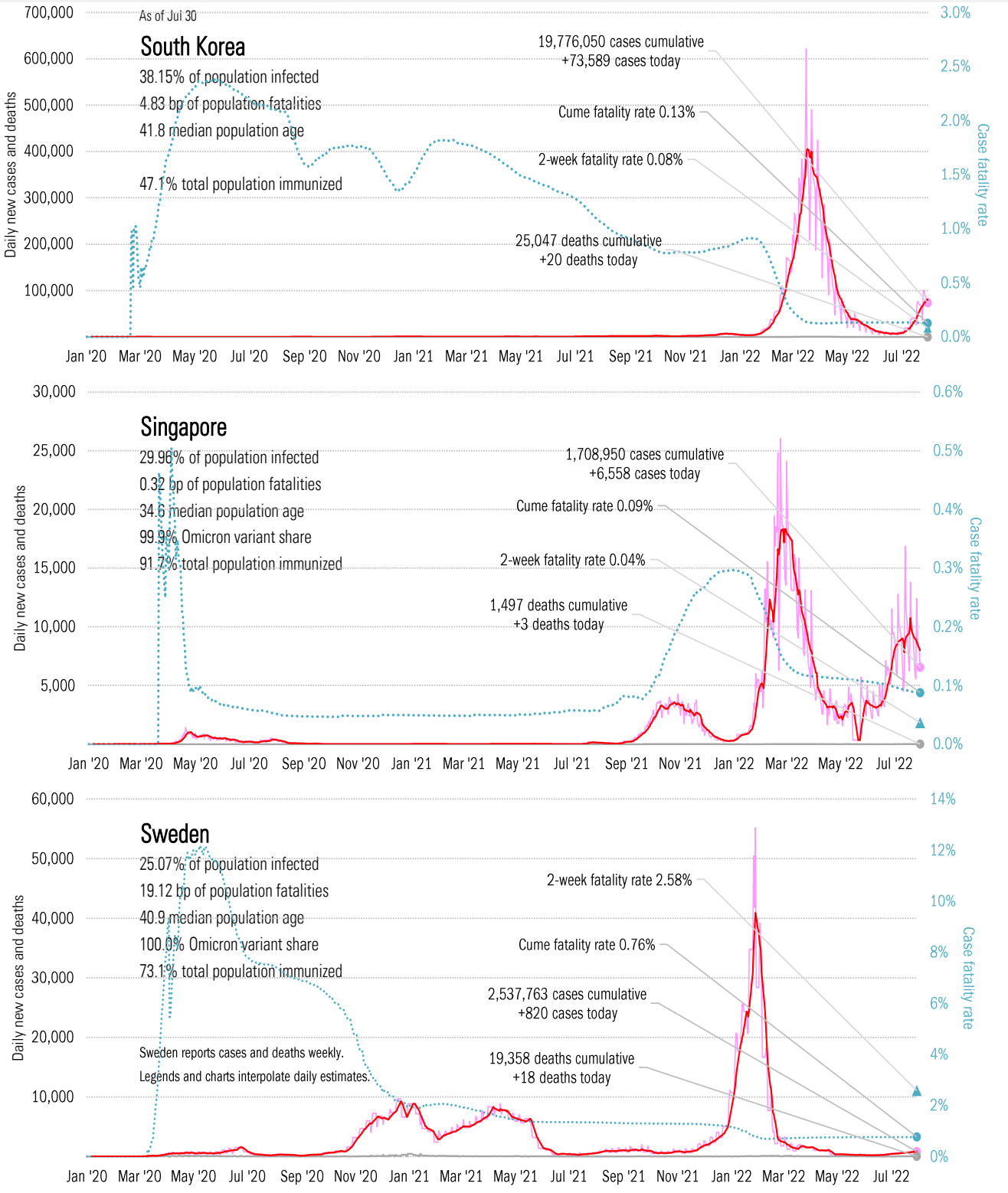
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

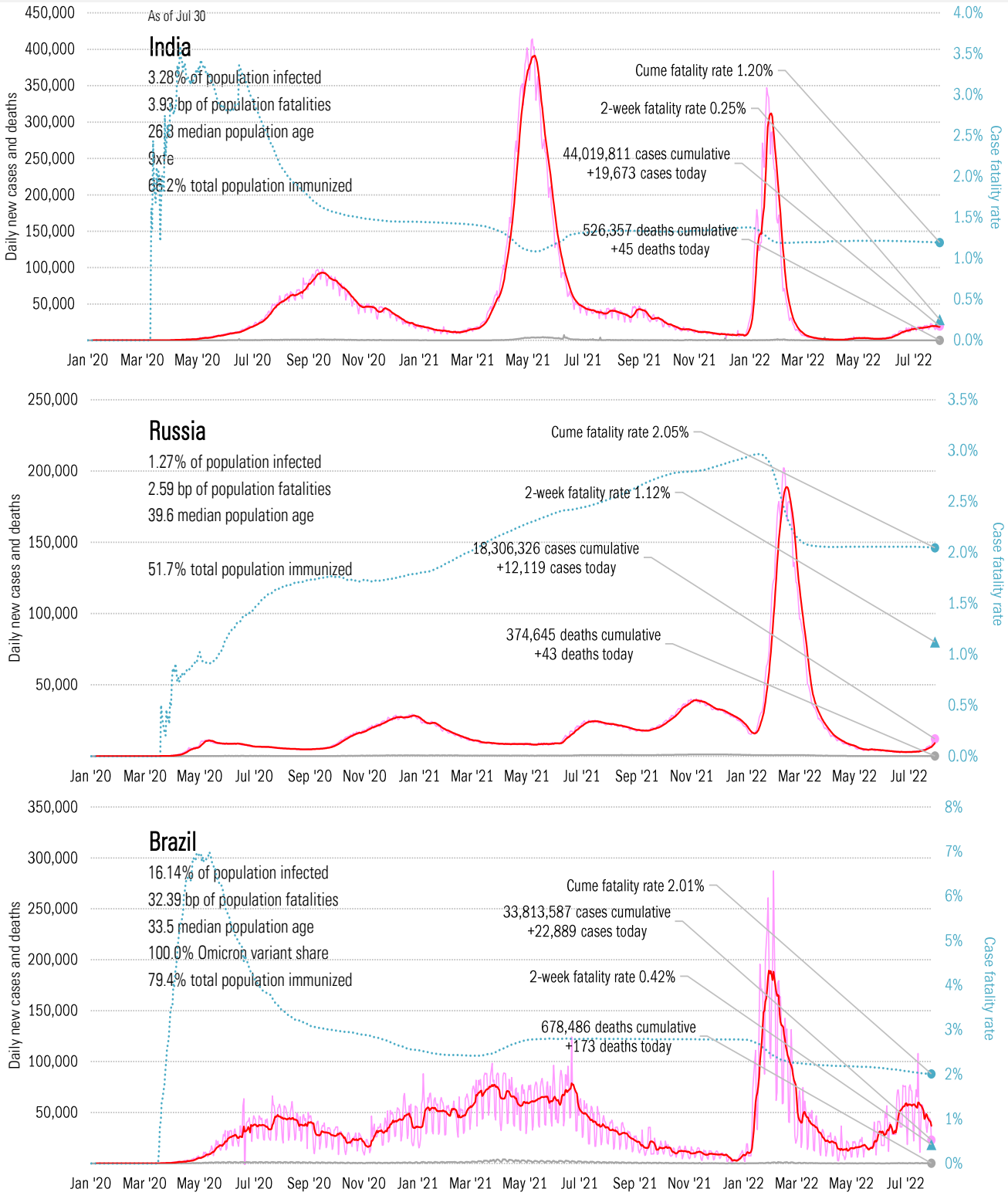
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

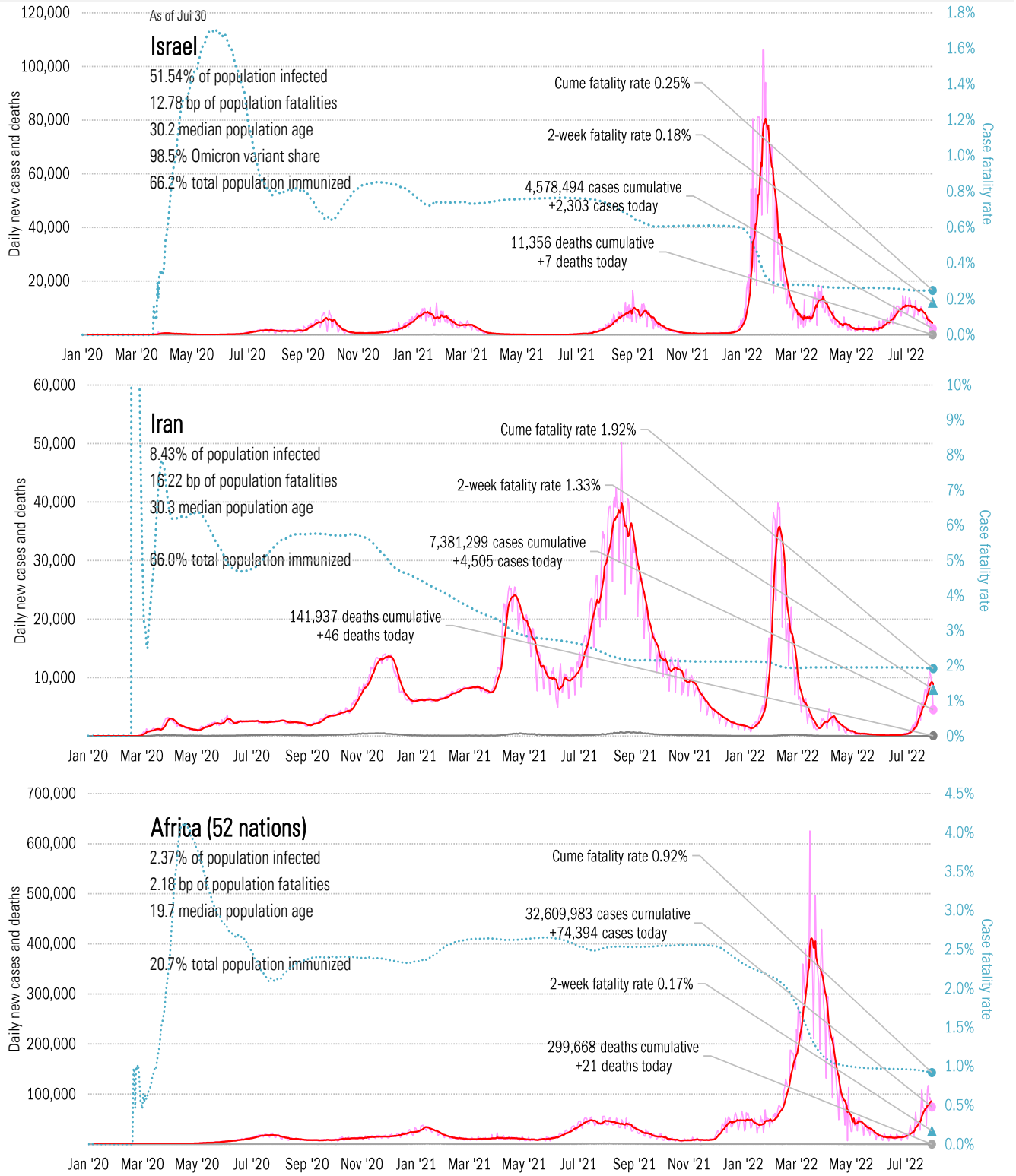
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

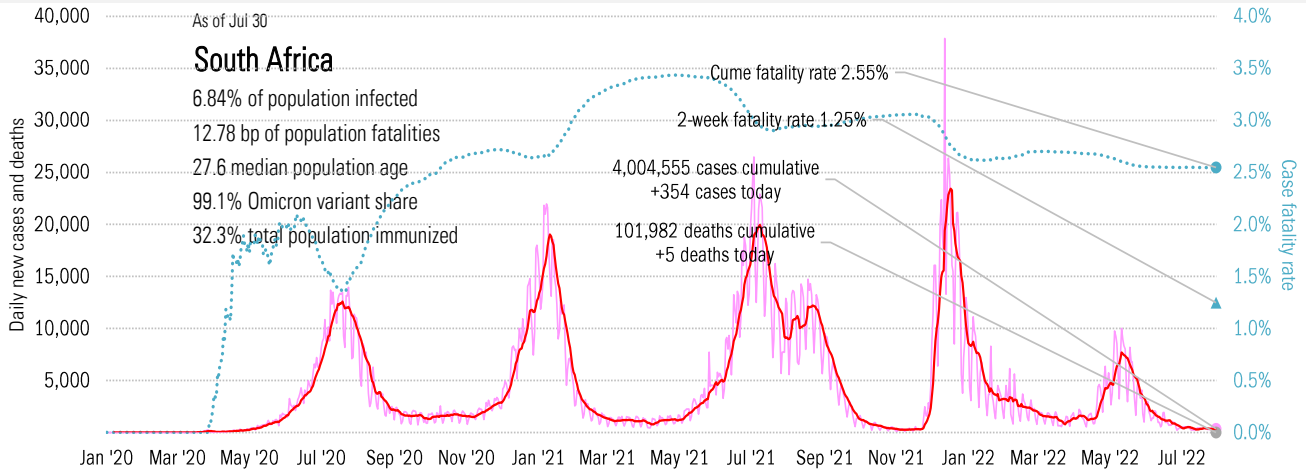
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations