Trend Macrolytics, LLC
Donald Luskin, Chief Investment Officer
Thomas Demas, Managing Director
Michael Warren, Energy Strategist

Data Insights: Covid-2019 Monitor

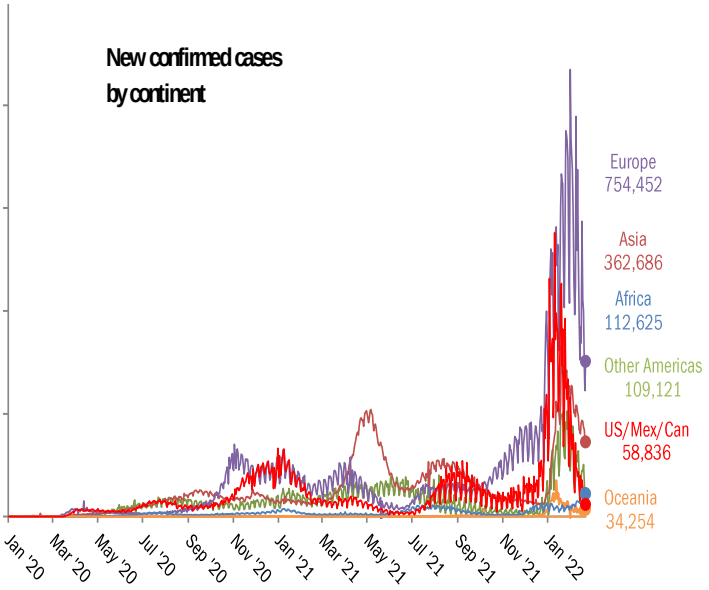
Tuesday, February 22, 2022

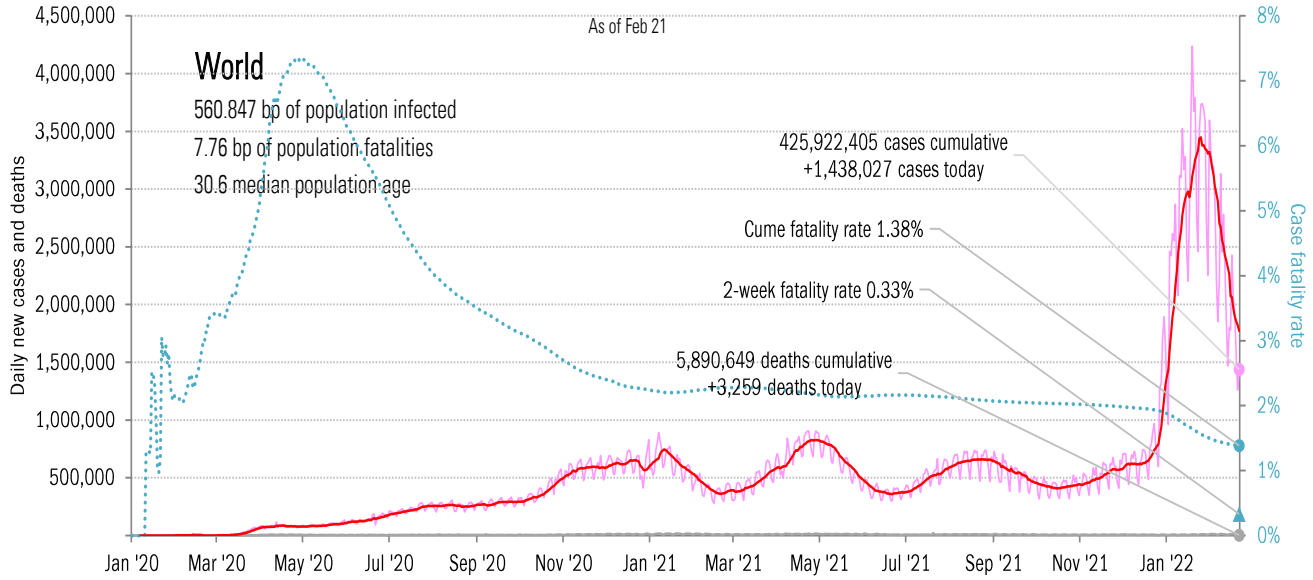
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Russia	149,866	United States	797
Germany	137,844	Russia	724
Korea, South	99,550	Spain	464
Turkey	85,026	Brazil	326
United States	56,018	Germany	305
Japan	51,909	Turkey	268
United Kingdom	49,422	Iran	236
Spain	48,778	India	235
Vietnam	46,880	Hungary	233
Brazil	40,278	Italy	201
	765,571		3,789
World	1,438,027	World	3,259
Top ten	53%	Top ten	116%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
Donald Luskin: 214 550 2121 don@trendmacro.com
Thomas Demas: 704 552 3625 tdemas@trendmacro.com

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

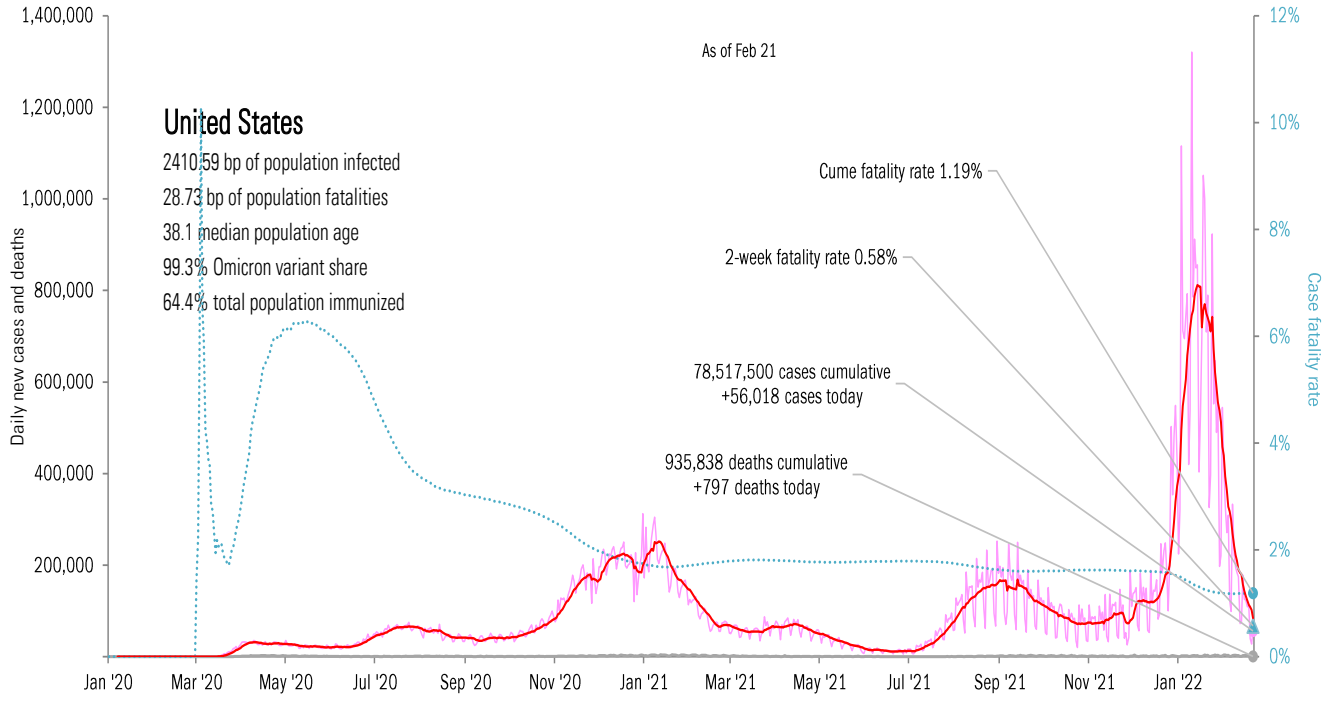
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
NC	9,888	FL	142	ME	18	CA	8,895,647	CA	84,024	TX	477,251	RI	90%	RI	93%
FL	6,053	GA	139	GA	9	TX	6,581,927	TX	83,759	CA	411,443	MD	87%	TX	90%
KY	5,882	NC	89	MA	7	FL	5,807,107	FL	68,750	FL	406,163	WV	86%	AL	89%
TX	4,889	KY	82	CT	6	NY	4,910,920	NY	67,034	NY	239,832	MA	86%	KY	87%
CO	4,012	TN	69	MS	6	IL	3,013,709	PA	42,789	GA	199,945	MN	83%	MS	85%
GA	3,665	NY	68	NC	6	PA	2,744,145	OH	35,493	OH	186,965	WA	83%	NV	85%
WV	3,105	LA	65	LA	5	OH	2,645,679	GA	34,896	PA	171,929	GA	82%	OK	84%
NY	2,605	IN	46	PR	5	NC	2,569,681	IL	34,732	IL	153,248	MO	81%	DE	83%
IN	2,528	TX	41	AL	3	GA	2,455,573	MI	33,998	MI	137,516	NC	80%	NC	83%
WI	2,386	CA	22	RI	2	MI	2,343,162	NJ	32,647	KY	137,429	CT	80%	NM	82%
	45,013		763		67		41,967,550		518,122		2,521,721				
All states	56,018		797		-1,204	All states	78,517,500		935,838		4,572,996	All states	70%		67%
Top ten	80%		96%		-6%	Top ten	53%		55%		55%	Median	75%		75%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
AZ	-4,780	AZ	-109	KY	-66	WY	+10 bp
ME	-4,167	PA	-103	VA	-29	AR	+10 bp
PA	-1,393	CA	-34	HI	-14	IN	+10 bp
CA	-1,307	TX	-29	CO	-8	KY	+10 bp
MD	-1,089	MD	-8	ND	-8	MI	+10 bp



Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

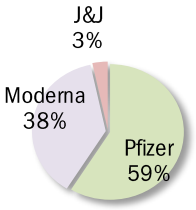
Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	564,838,765				+0.528 million
Boosters	94,037,755				+0.221 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	260,402,463	78%	220,949,703	66%	+0.146 million
Age 12 to 17	17,232,772	68%	14,646,241	58%	+0.015 million
Age 18 to 64	175,597,844	86%	14[illegible]	[illegible]%	[illegible] million
Age 65 and over	58,158,285	100%	5[illegible]		[illegible]

Immunity	Full	Partial
US	64.2%	76.0%
UK	71.5%	77.0%
France	77.1%	80.0%
Spain	82.1%	87.7%
Germany	74.2%	75.4%
Italy	77.8%	83.7%
Australia	79.0%	85.0%
Israel	65.8%	72.1%
Canada	80.4%	85.3%
Japan	79.3%	80.6%
Africa	11.5%	16.8%
India	54.2%	68.8%
Brazil	71.3%	81.5%
China	85.1%	87.7%

Global data differs due to sources, timing

The CDC did not update vaccination today due to the holiday.



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

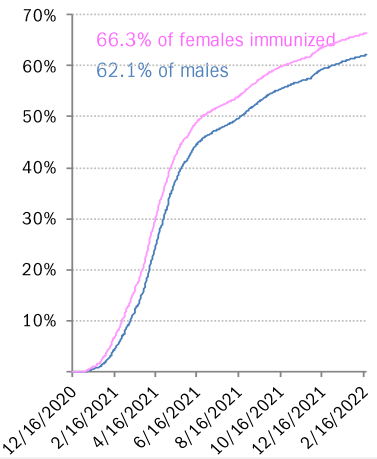
Best
Middle
Worst

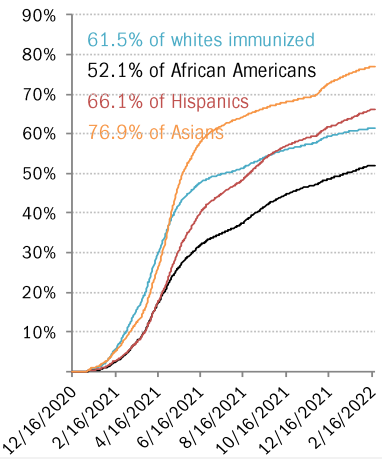
"Immunity" = two doses

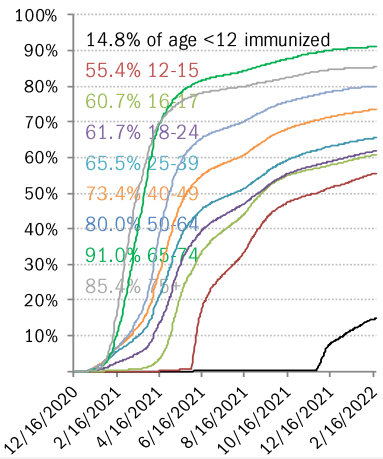
As of Feb 19

AK					WI					ME
68.4%					70.9%					89.1%
60.8%					64.4%					78.2%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
79.5%	60.1%	64.4%	64.4%	74.2%	75.8%	65.9%		88.6%	92.7%	95.0%
71.2%	52.9%	55.8%	54.3%	67.9%	67.1%	59.0%		75.2%	80.0%	69.6%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
76.8%	73.8%	57.9%	74.7%	67.1%	60.5%	62.7%	83.0%	88.6%	95.0%	
68.5%	59.5%	50.5%	59.7%	60.9%	53.9%	57.4%	66.7%	74.0%	77.4%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
81.5%	71.1%	78.2%	69.2%	65.2%	65.2%	64.1%	84.3%	84.6%	93.6%	95.0%
70.1%	63.1%	69.0%	62.3%	54.9%	56.3%	56.6%	71.7%	73.7%	77.5%	80.3%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	71.2%	85.6%	73.2%	65.6%	61.2%	82.0%	66.2%	94.7%	81.5%	
	59.8%	69.3%	59.9%	53.3%	53.4%	59.1%	55.5%	71.1%	67.3%	
			OK	LA	MS	AL	GA			
			69.8%	60.0%	58.6%	61.7%	64.2%			
			55.8%	52.4%	50.7%	50.0%	53.4%			
HI			TX					FL		PR
86.0%			70.6%					77.8%		94.8%
76.9%			59.7%					65.7%		80.8%

The demographics of US vaccination



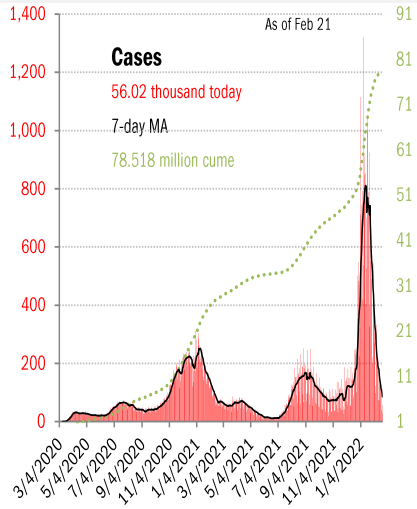


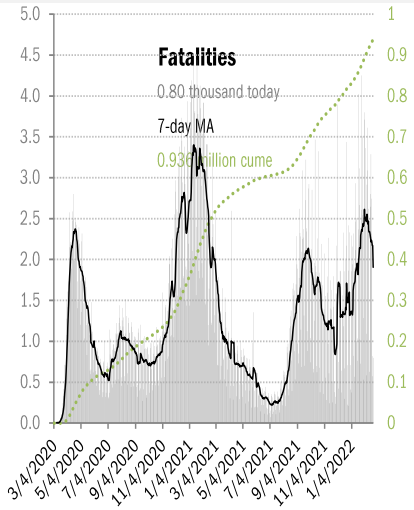


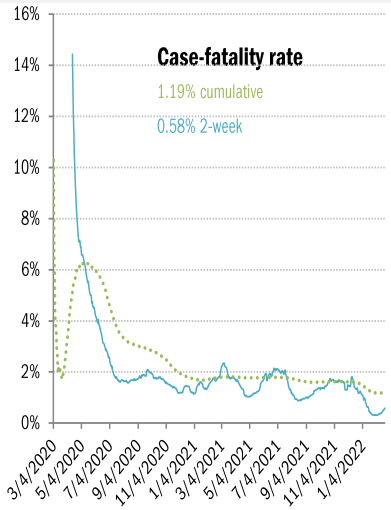
Source: CDC, CDC, Our World in Data, TrendMacro calculations

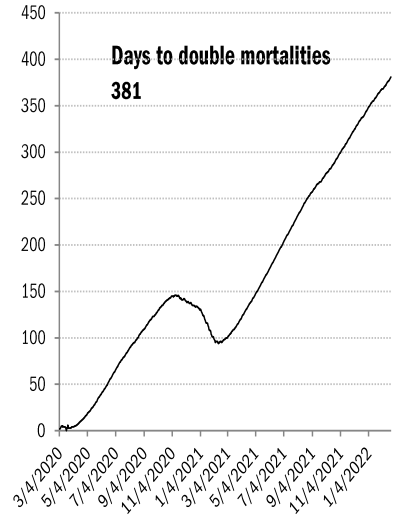
US deep-dive

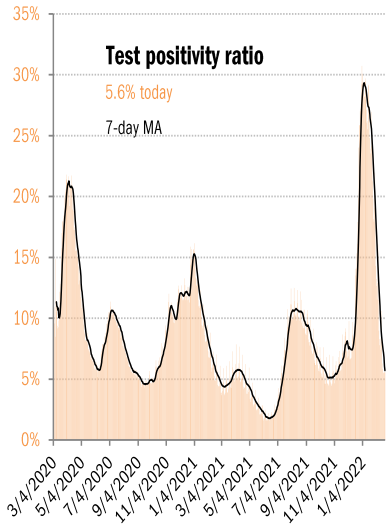
National and state-by-state data do not line up because of different sources

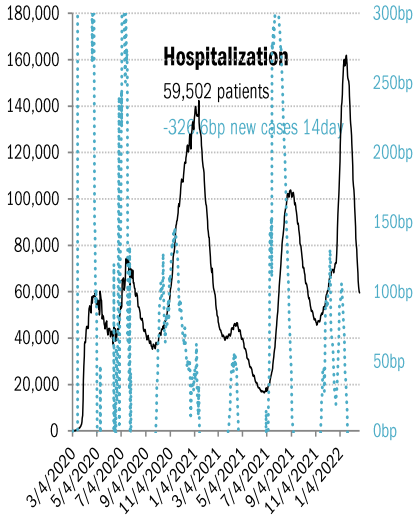


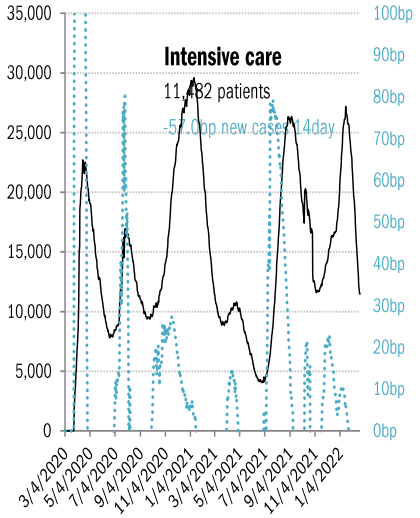


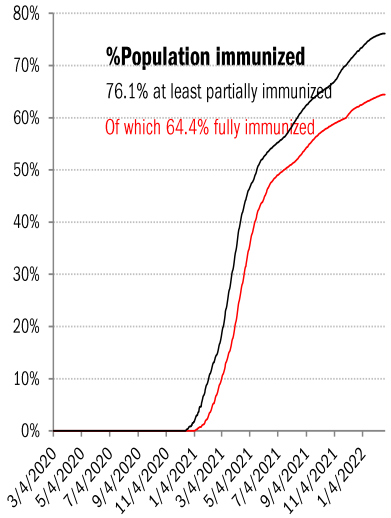












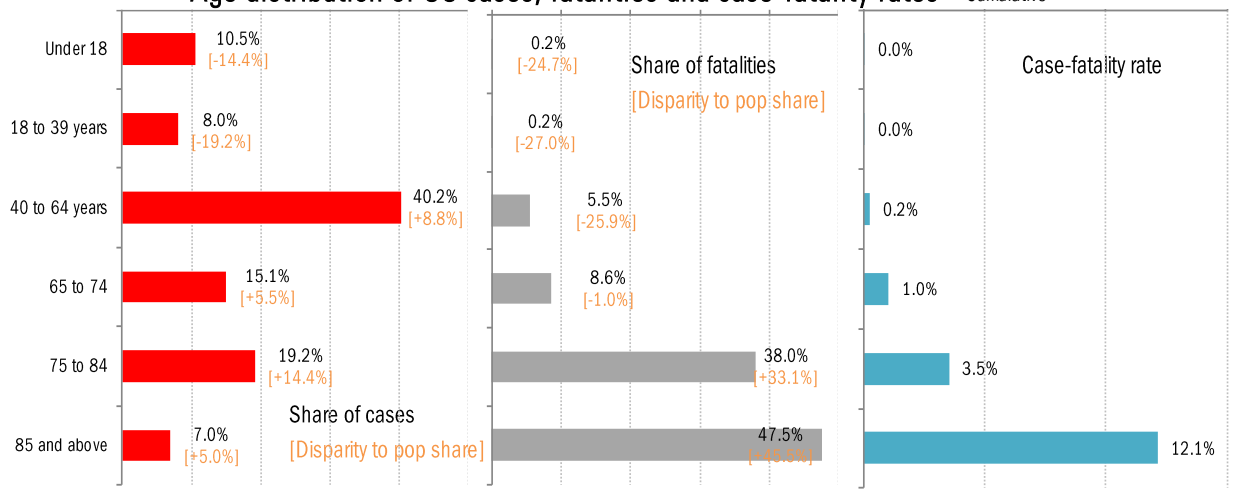
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

US deep-dive on the demographics of age, race and health

Updates weekly on Sundays

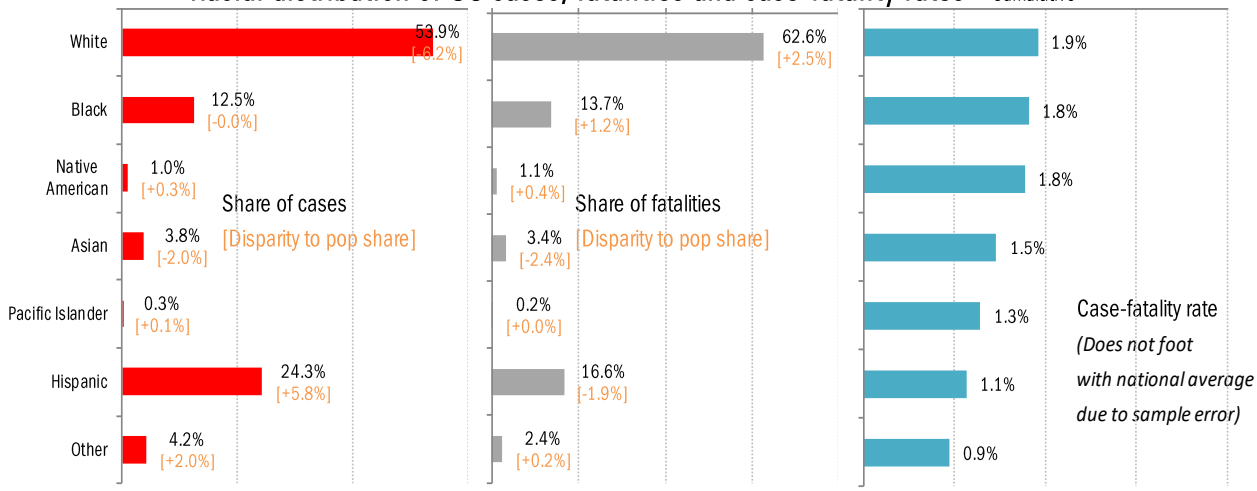
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



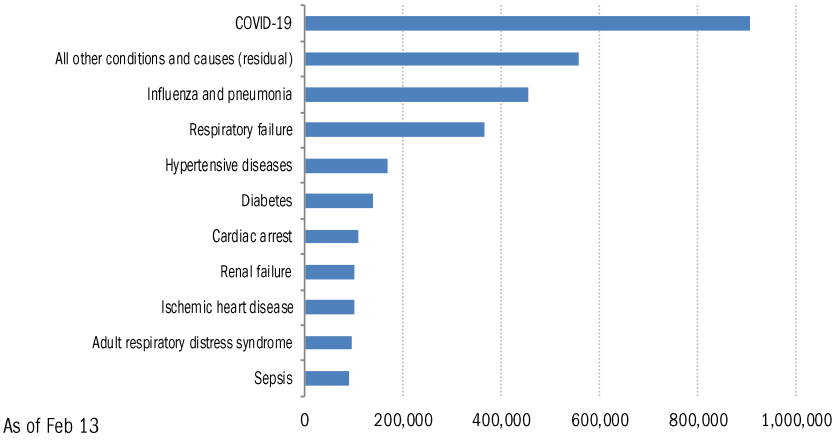
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Feb 13

The CDC website now omits the following text, which had been included every day for over a year:

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

Canada's illiberal response to protesters
Financial Times
February 18, 2022

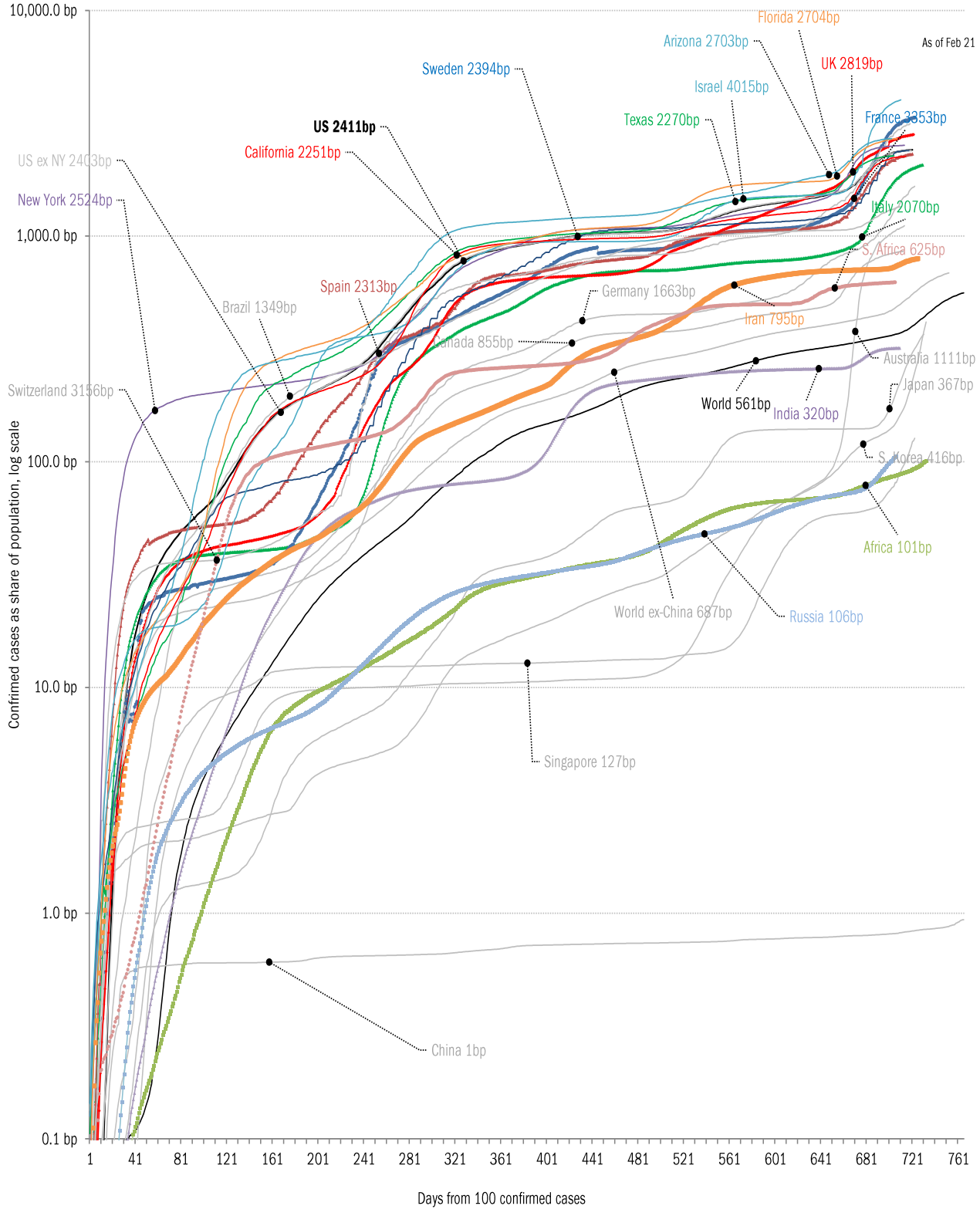
Boris Johnson announces end of Covid legal restrictions in England
George Parker, Jasmine Cameron-Chileshe and Sarah Neville
Financial Times
February 21, 2022

Meme of the day

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

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

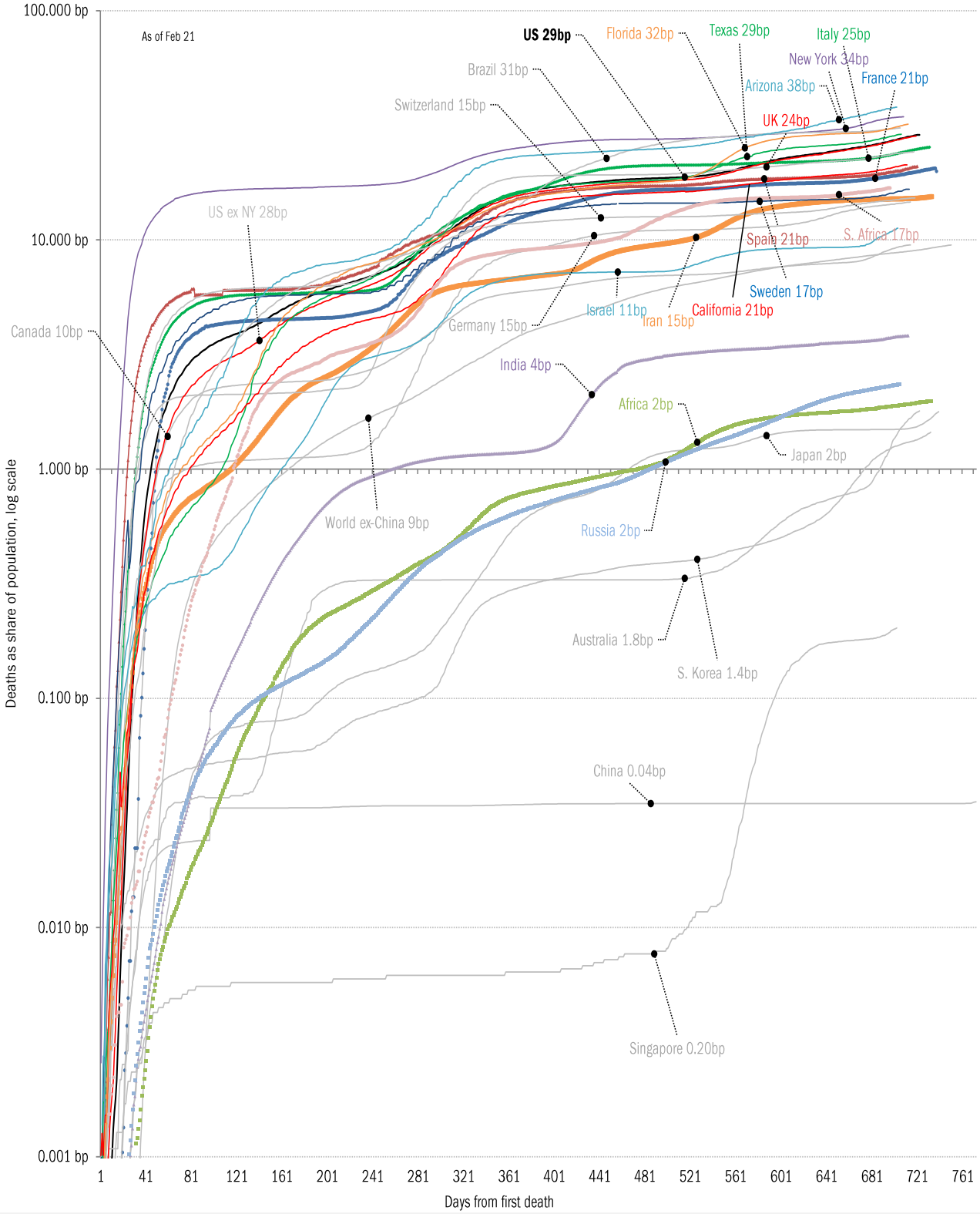
Share of infected population from first day with 100 confirmed cases, log scale



Source: Johns Hopkins, TrendMacro calculations

The coronavirus mortality accelerometer … tracking the world's fatality curves

Share of deceased population from day of first fatality, log scale

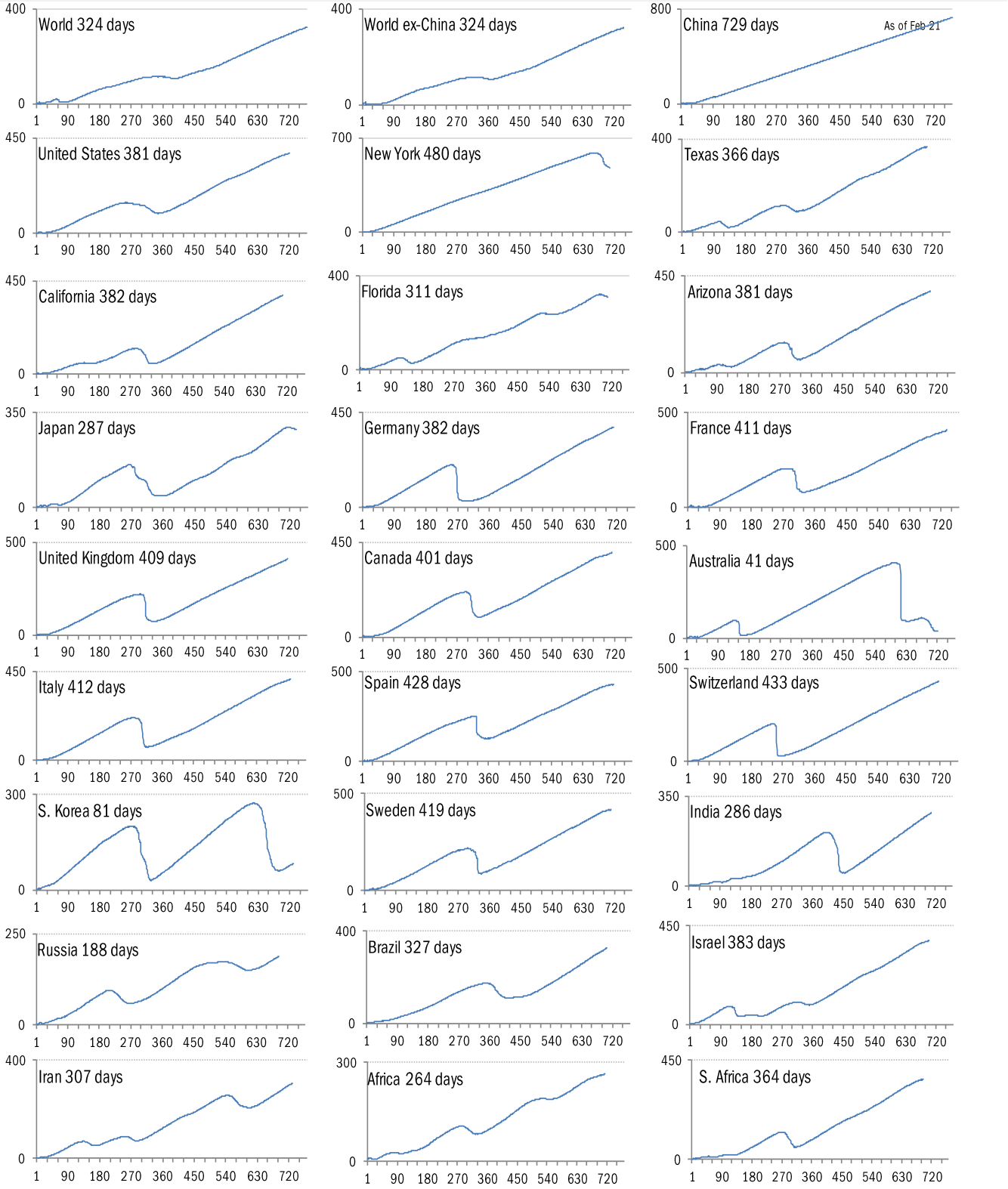


Source: Johns Hopkins, TrendMacro calculations

"Exponential"? 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

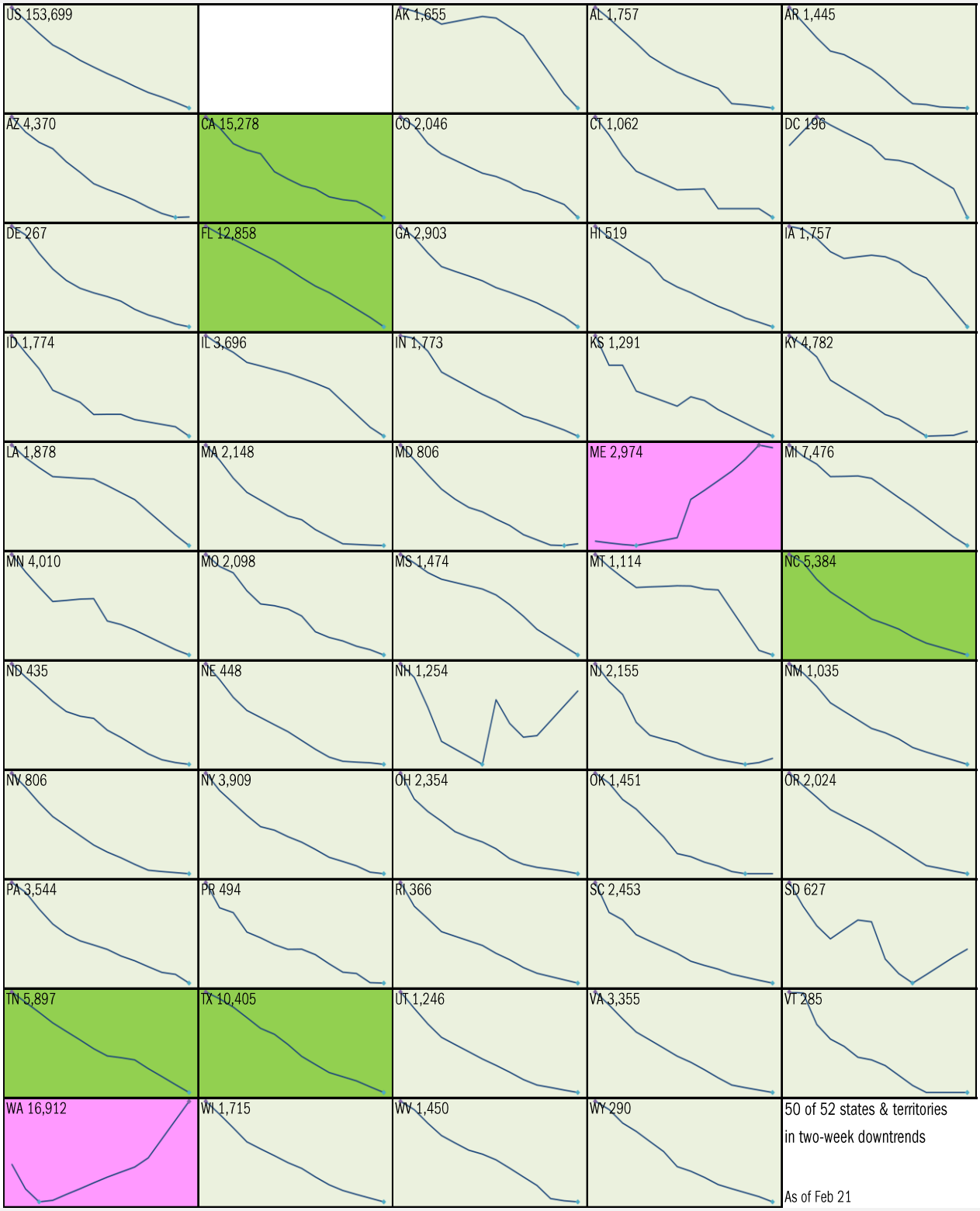


Source: Johns Hopkins, TrendMacro calculations

Requirement to Open Up America Again: 14-day "downward 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

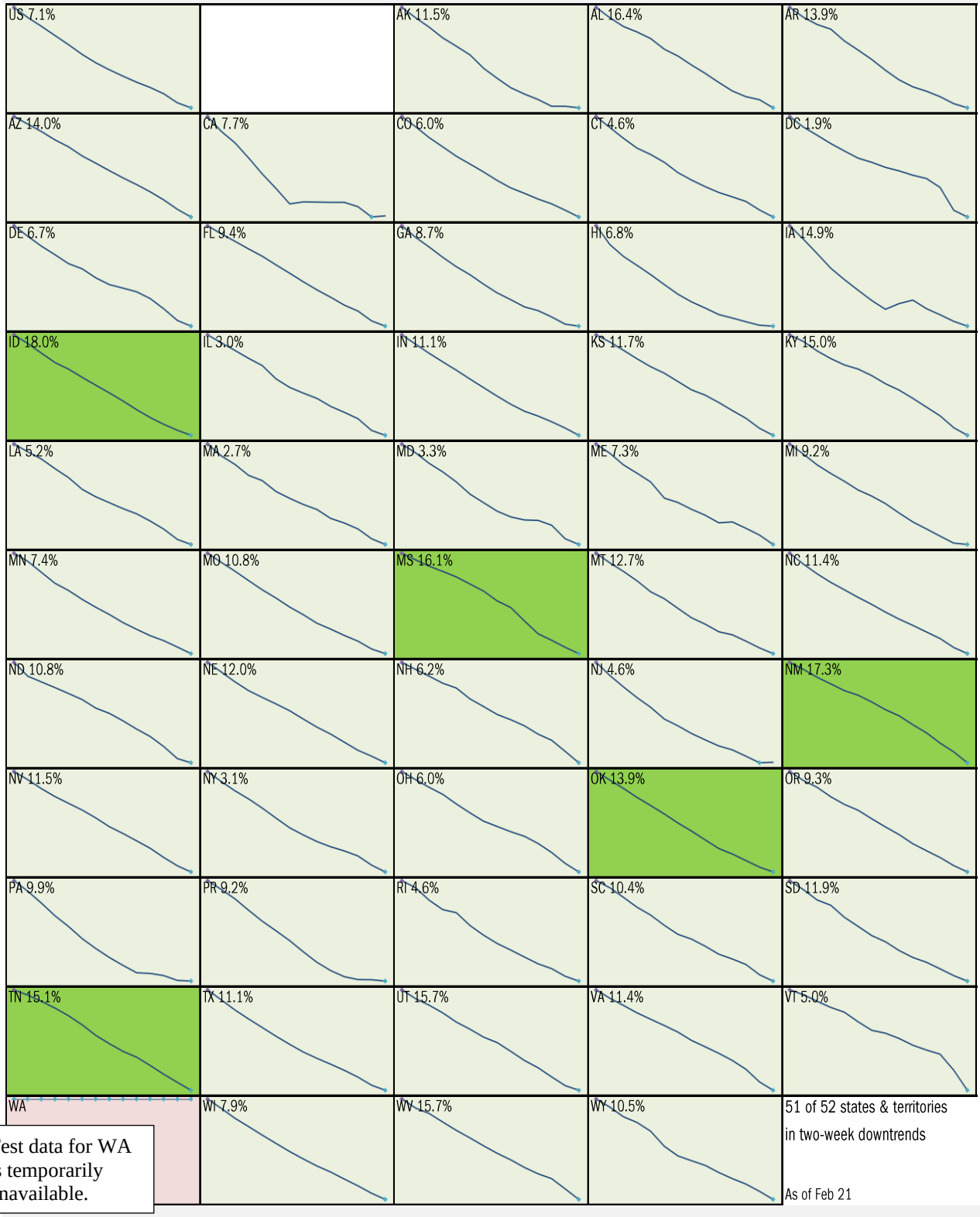


Source: Johns Hopkins, TrendMacro calculations

Alt requirement to Open Up America Again: 14-day "downward trajectory" in pos tests

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

Downward trajectory Five best Upward trajectory Five worst

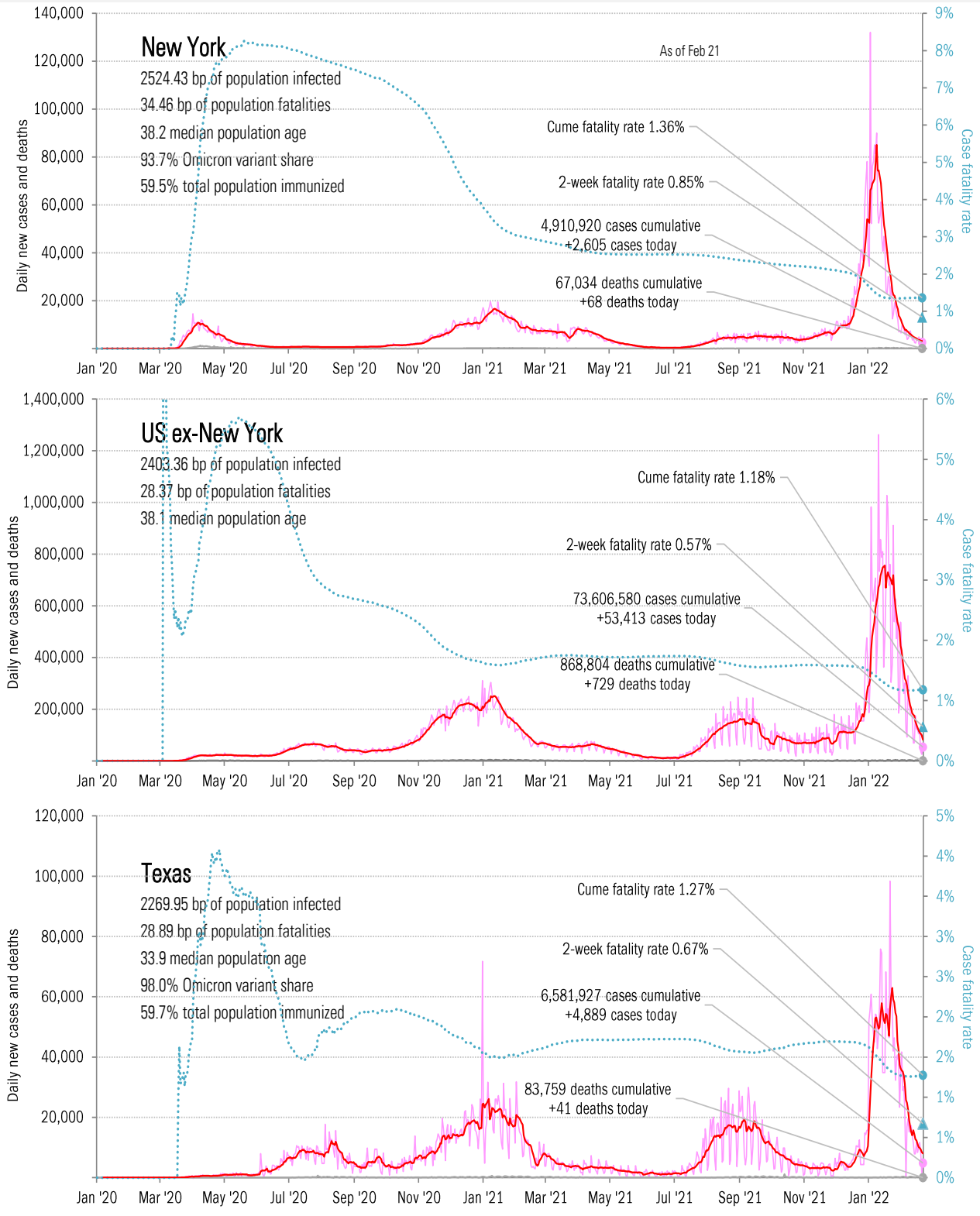


Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

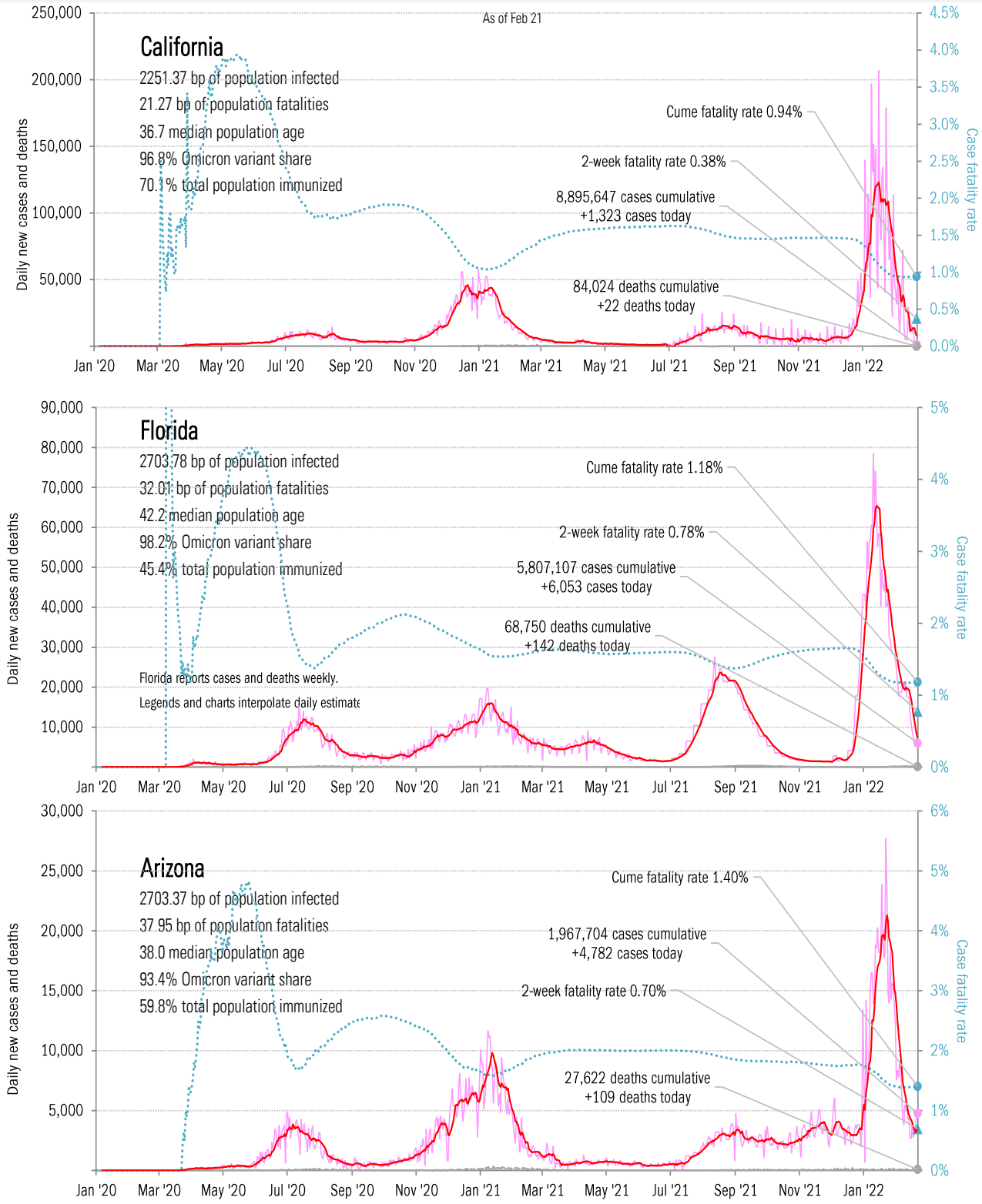
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

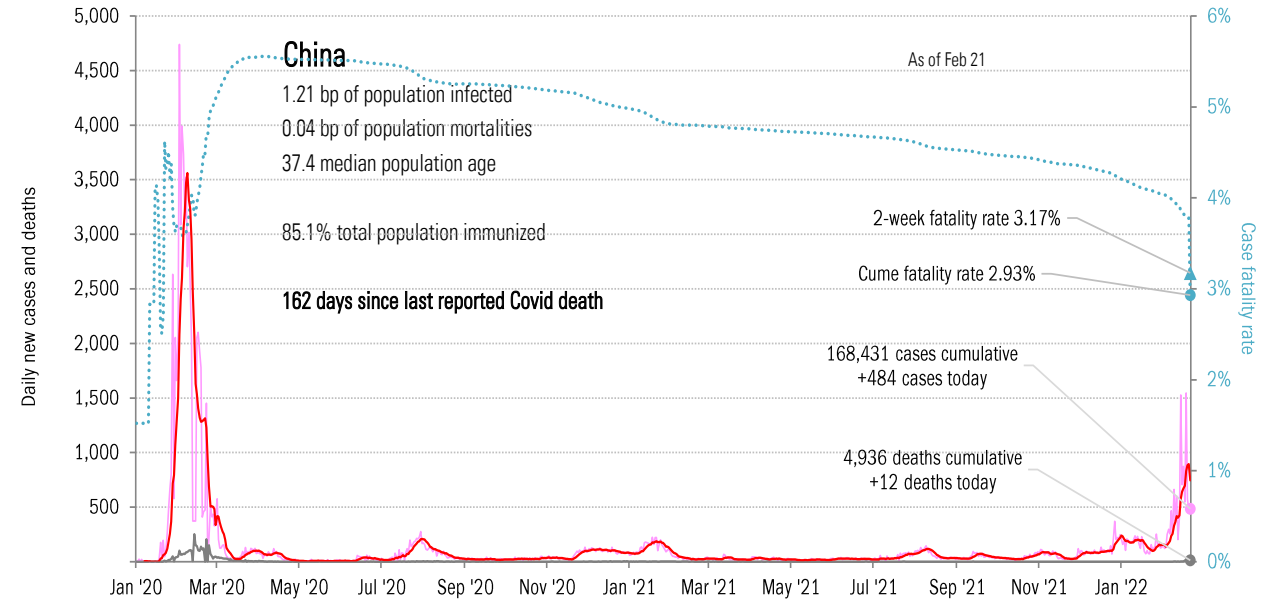
Cases: 7-day average and daily Deaths: Daily

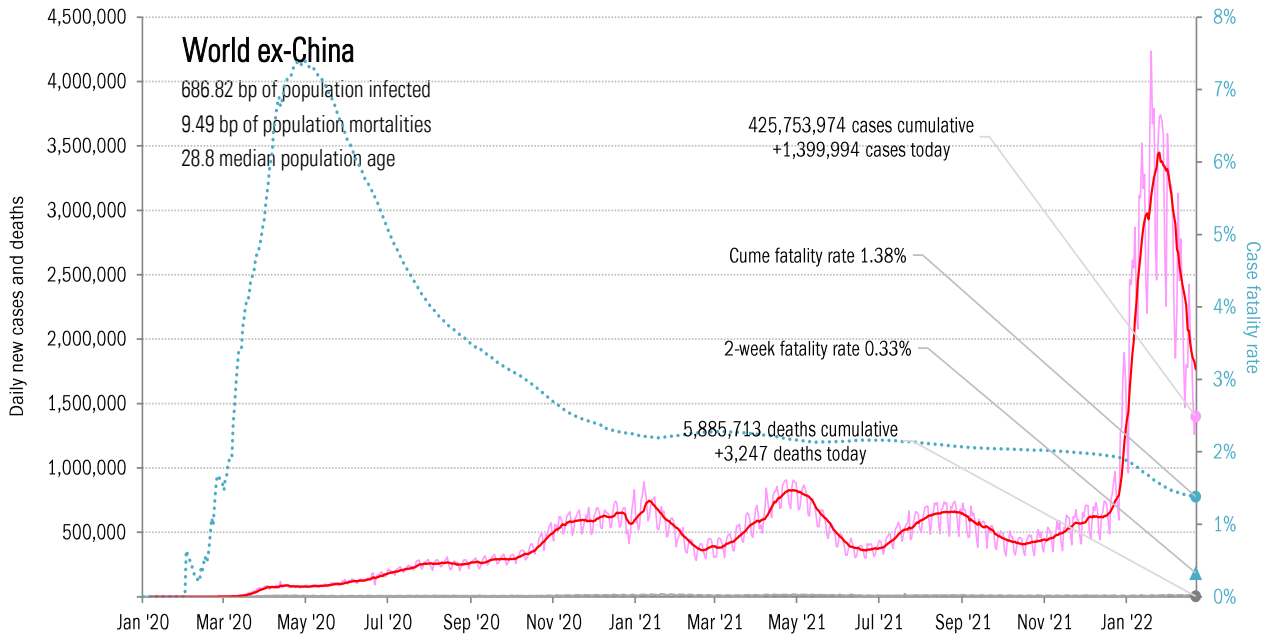


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

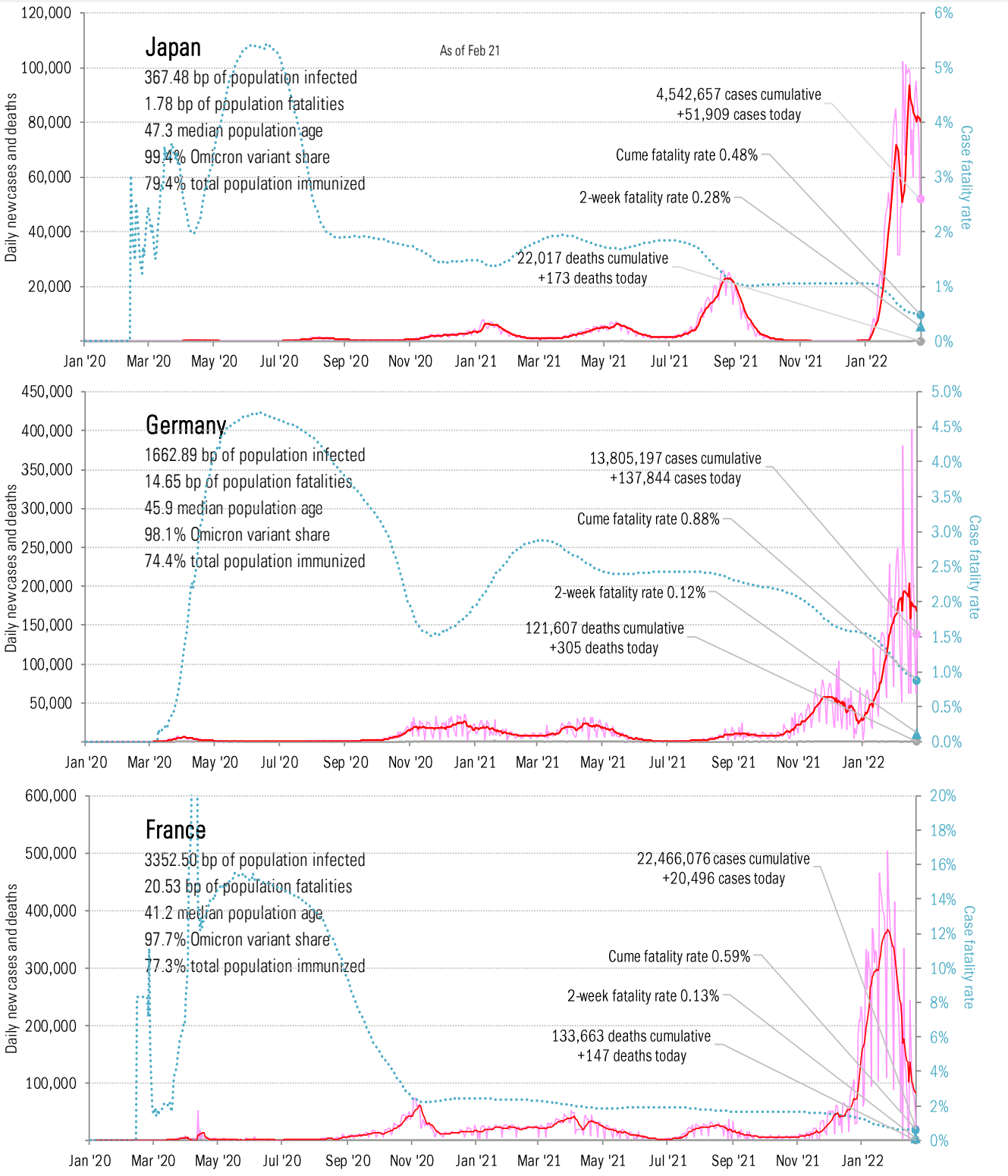




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

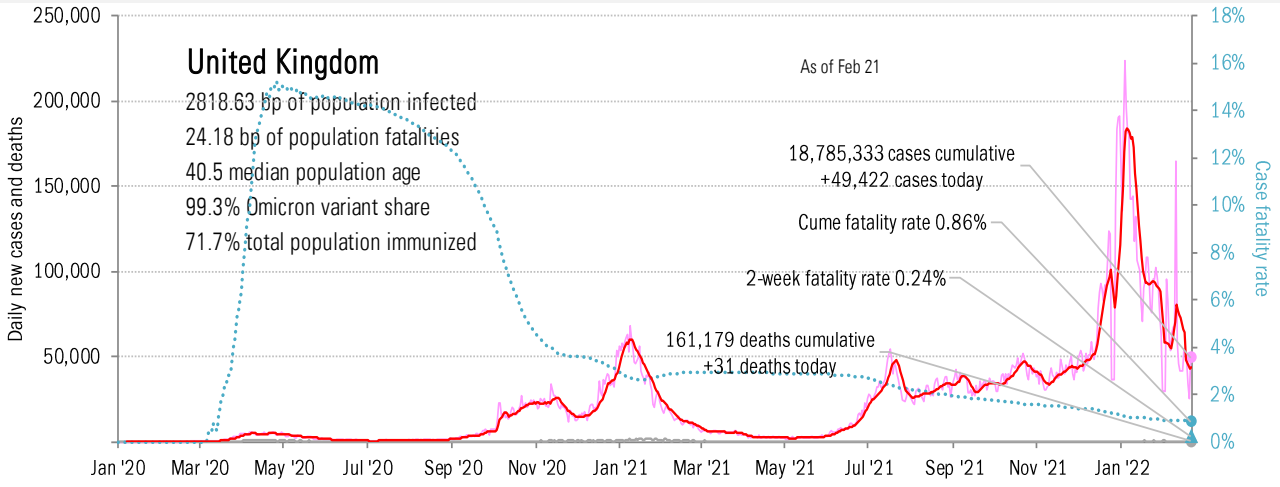
Cases: 7-day average and daily Deaths: Daily

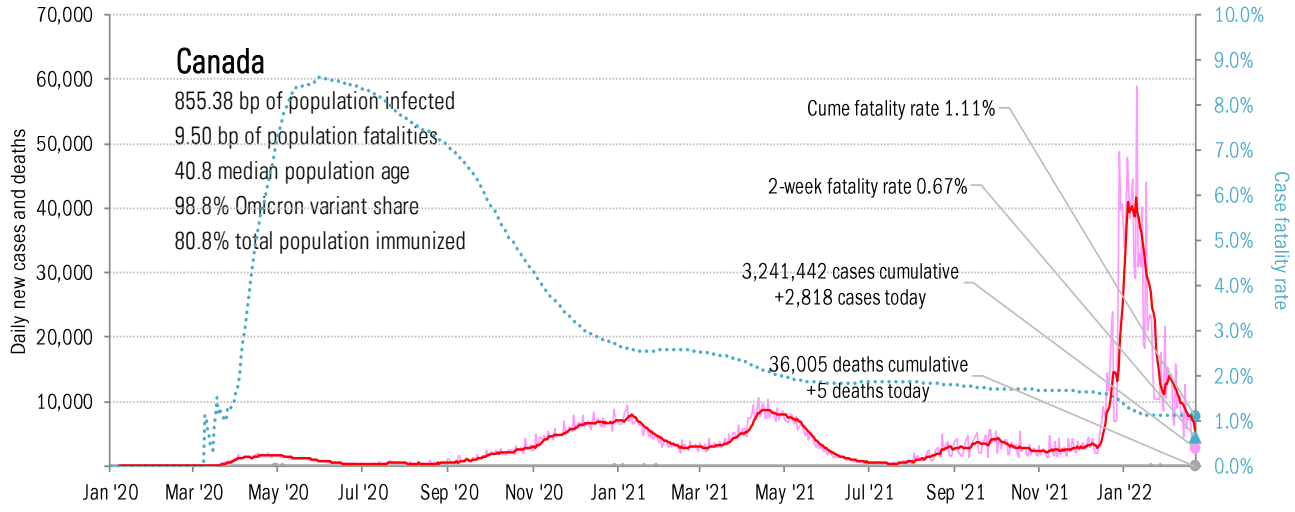


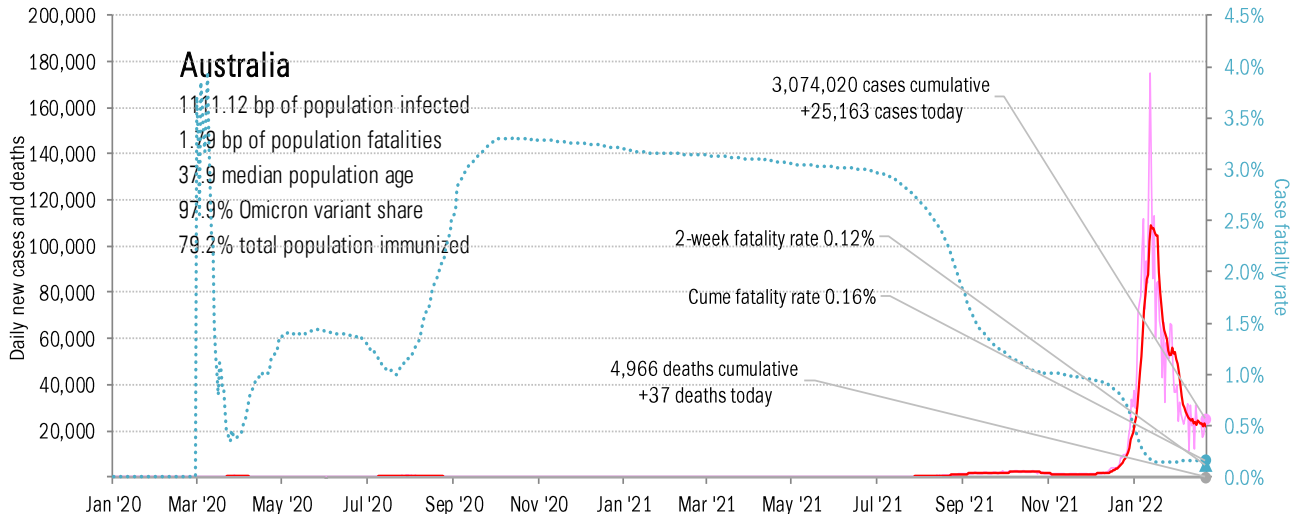
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily



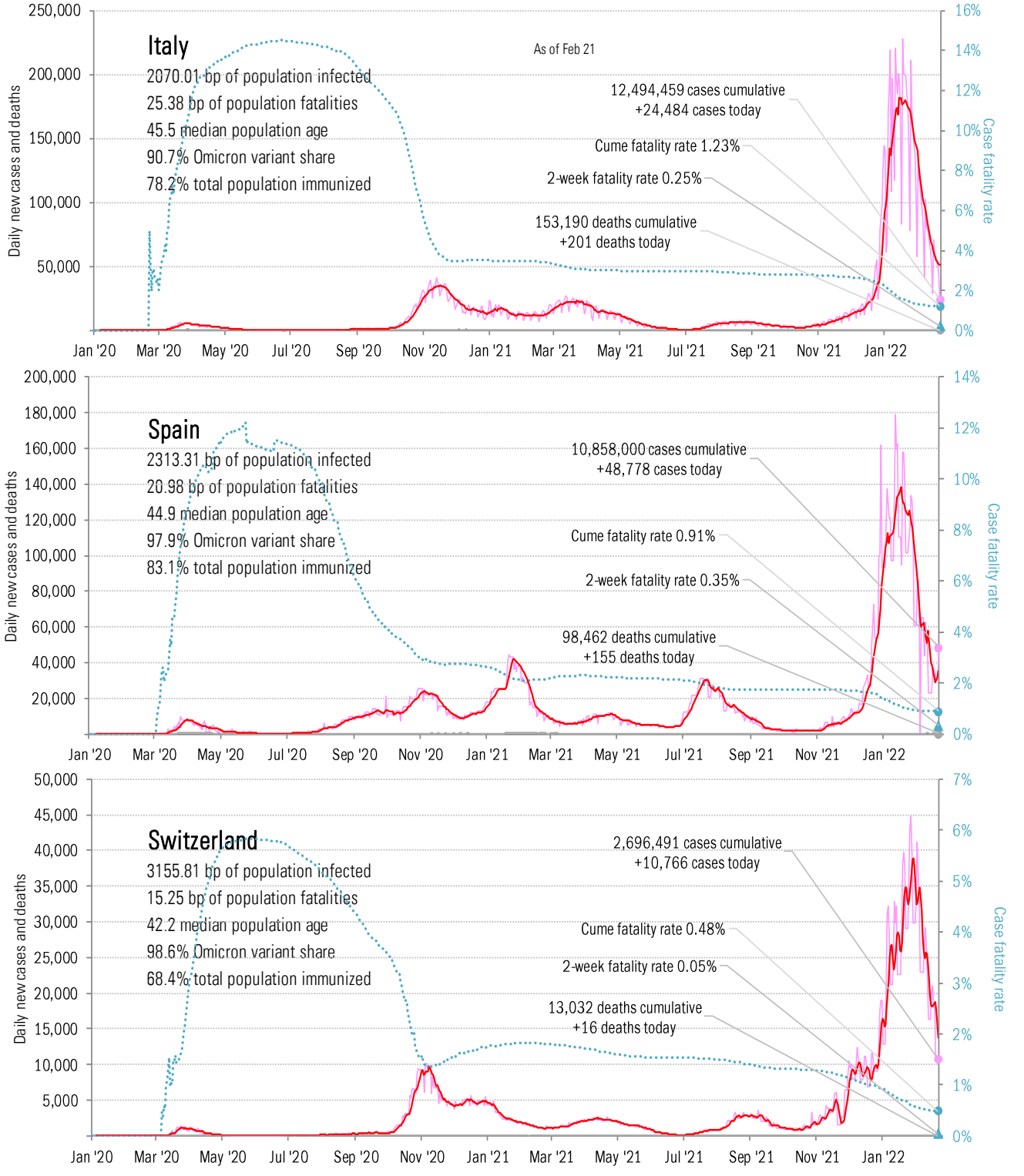




Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

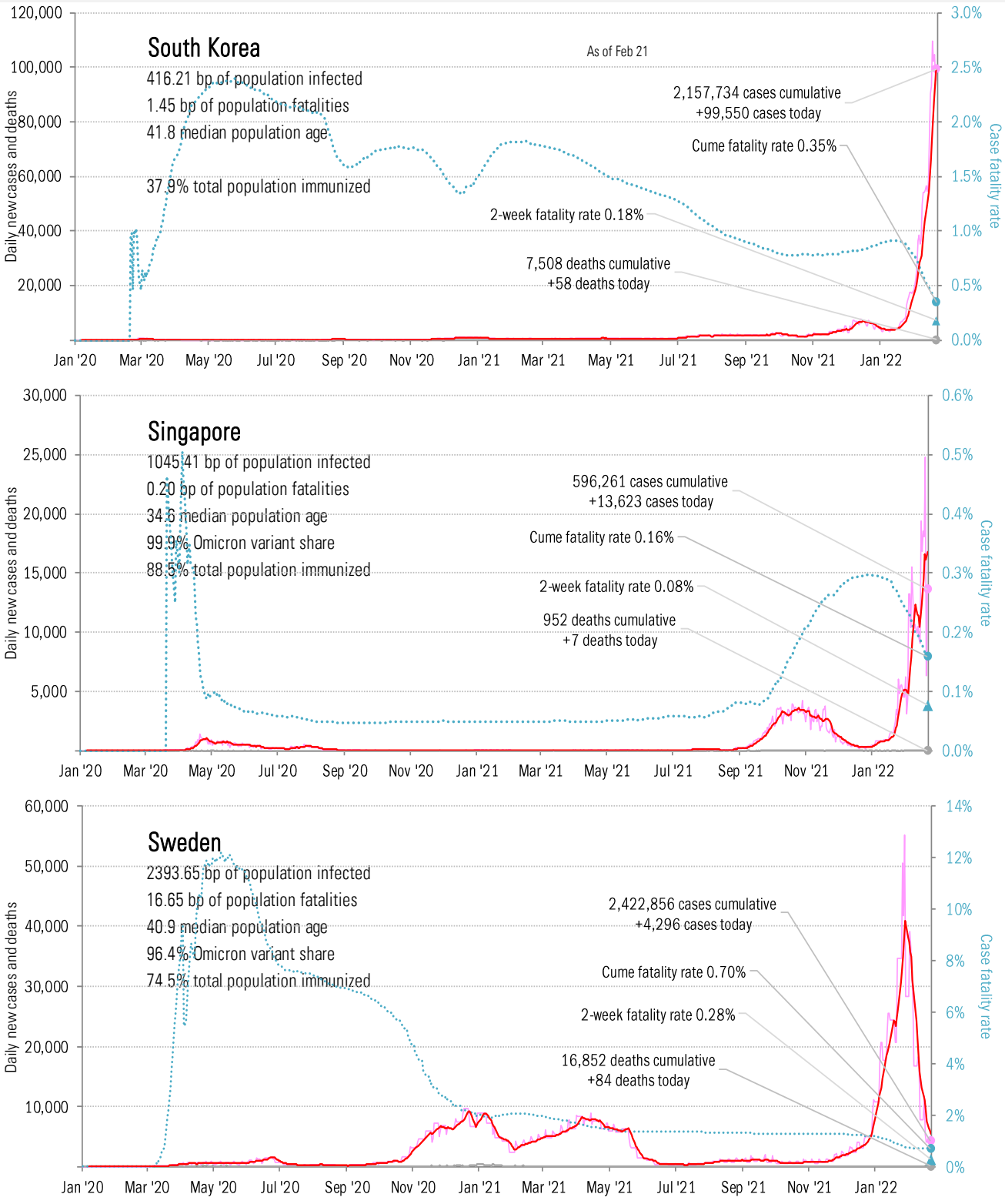
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

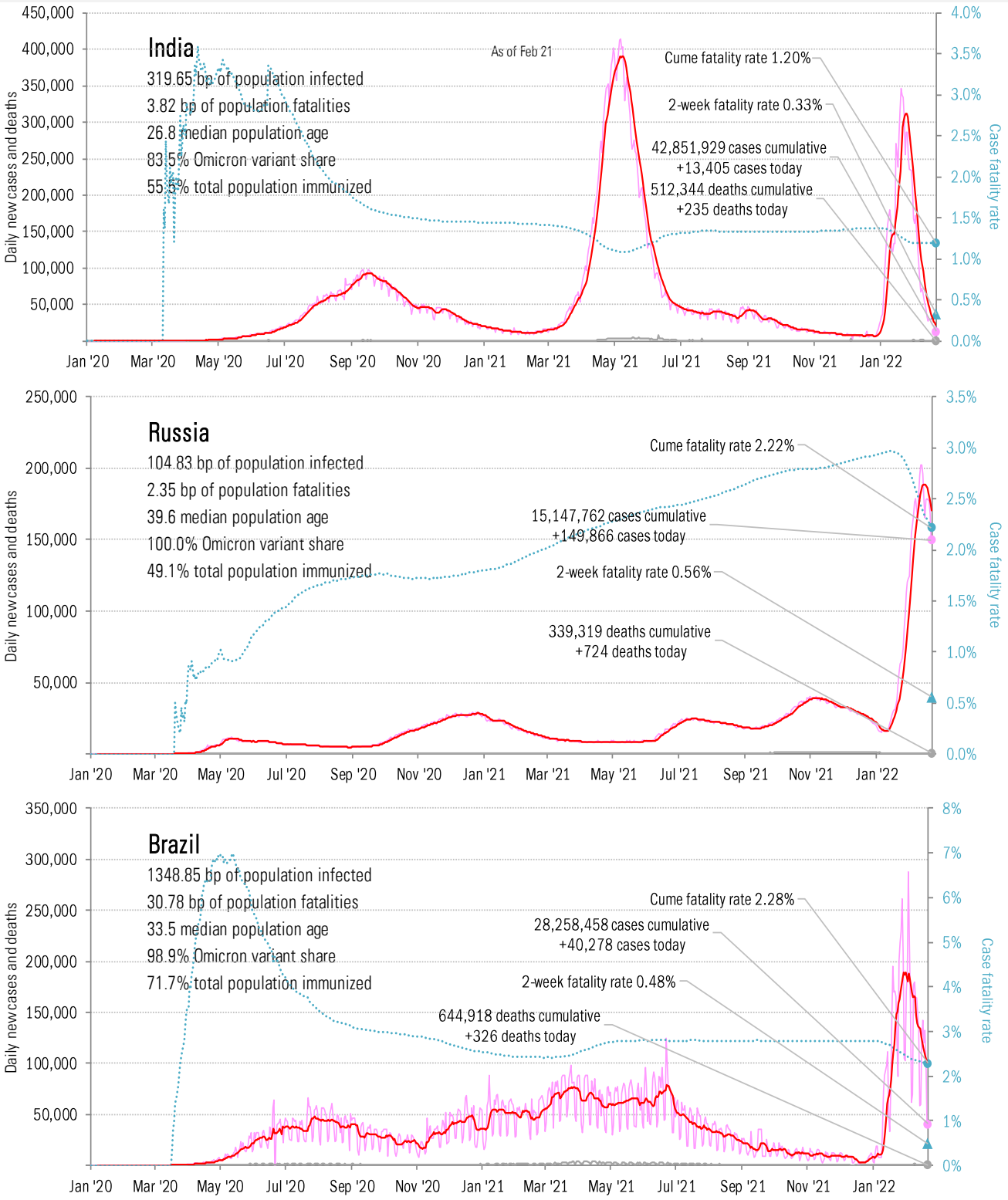
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

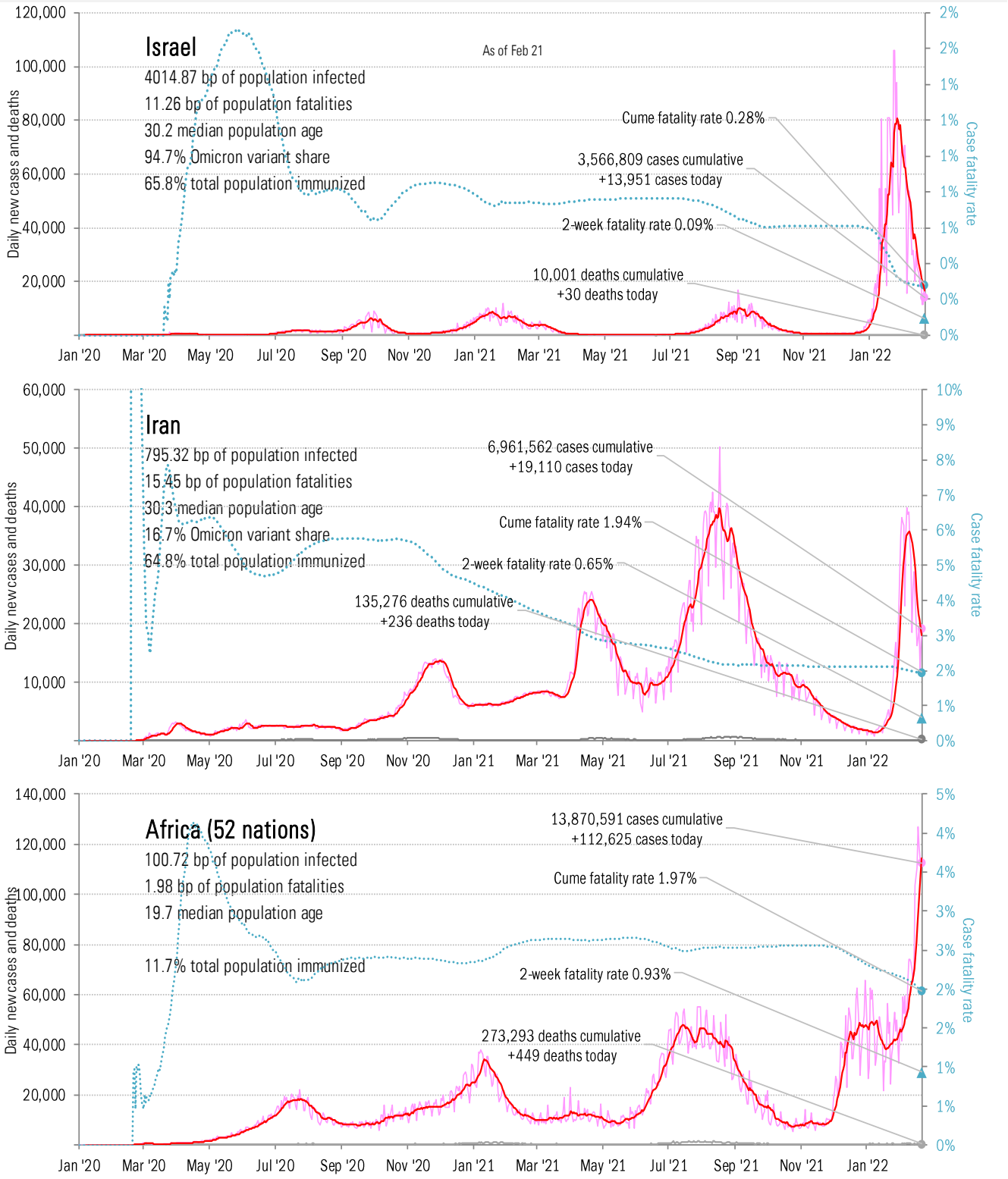
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

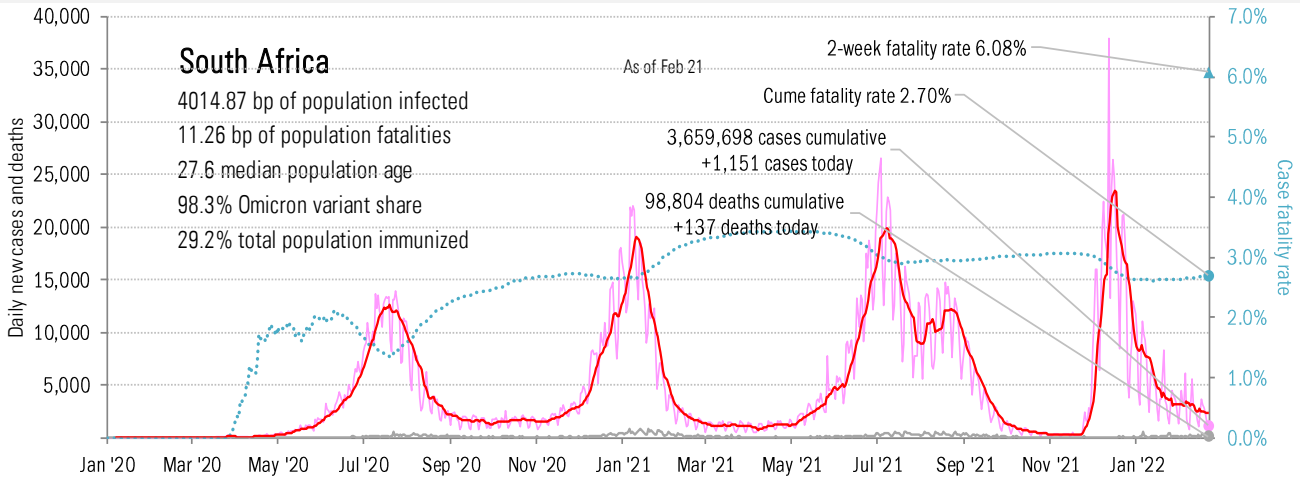
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations