Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

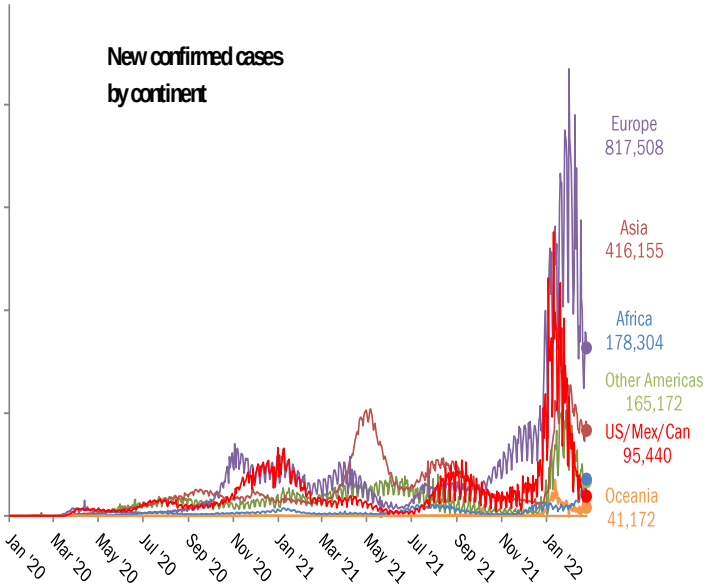
Friday, February 25, 2022

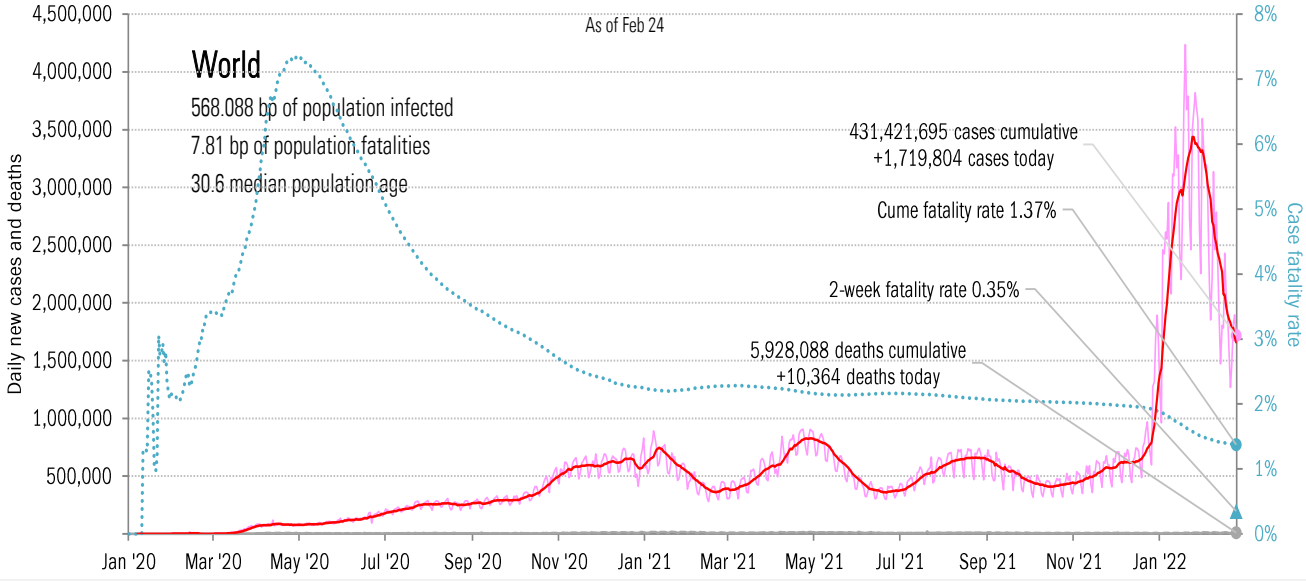
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Germany	206,627	United States	2,483
Korea, South	165,889	Brazil	989
Russia	131,249	Russia	752
Brazil	95,899	Mexico	362
Turkey	79,708	Poland	341
United States	71,544	Indonesia	317
Vietnam	69,128	India	302
France	68,957	Ukraine	286
Japan	61,152	France	282
Indonesia	57,426	Turkey	281
	1,007,579		6,395
World	1,719,804	World	10,364
Top ten	59%	Top ten	62%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

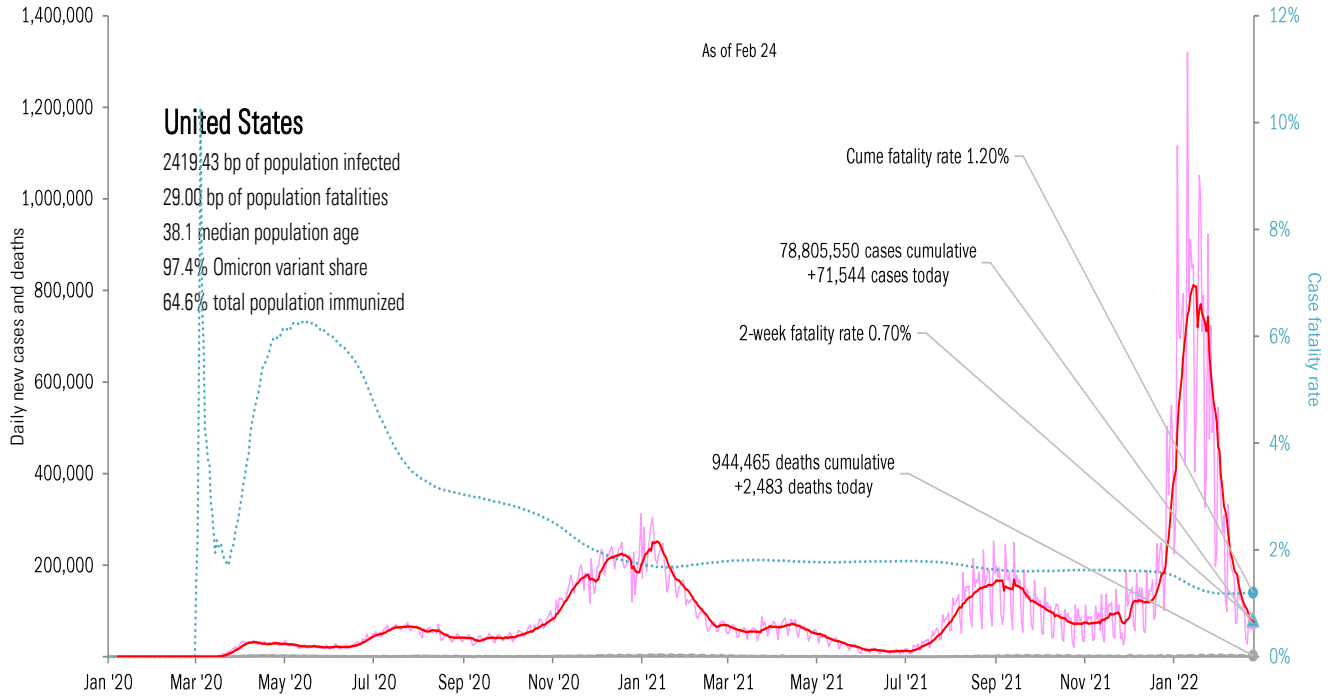
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	14,179	MO	387	DC	3	CA	8,946,146	CA	84,728	TX	479,024	ID	96%	ID	104%
TX	6,457	CA	260	PR	2	TX	6,600,661	TX	84,462	CA	413,023	RI	86%	TX	92%
FL	6,053	TX	251	NH	1	FL	5,825,267	FL	69,188	FL	407,219	WV	86%	NM	90%
NC	3,650	FL	140	AK	0	NY	4,917,723	NY	67,220	NY	240,325	MA	85%	AL	88%
NY	2,669	VA	102	AS	0	IL	3,024,663	PA	43,069	GA	200,489	GA	85%	MS	88%
TN	2,639	GA	99	DE	0	PA	2,751,629	OH	36,267	OH	187,400	PA	85%	AK	87%
ID	2,409	AL	95	GU	0	OH	2,649,692	GA	35,194	PA	172,434	MN	84%	OK	85%
VA	2,176	AZ	86	MP	0	NC	2,578,517	IL	35,013	IL	153,741	MO	83%	GA	84%
GA	2,157	TN	69	VI	0	GA	2,461,103	MI	34,370	MI	138,009	MD	82%	KY	83%
IL	1,979	PA	67	HI	-1	MI	2,350,468	NJ	32,800	KY	137,852	DC	82%	NC	83%
	44,368		1,556		5		42,105,869		522,311		2,529,516				
All states	71,544		2,483		-1,708	All states	78,805,550		944,465		4,587,549	All states	70%		67%
Top ten	62%		63%		0%	Top ten	53%		55%		55%	Median	78%		76%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-7,306	MI	-372	TN	-25	CA	+10 bp
WA	-5,383	PA	-146	MO	-24	CT	+10 bp
PR	-4,892	IA	-137	MS	-18	ID	+10 bp
MN	-2,919	MA	-90	AR	-16	IL	+10 bp
KY	-2,666	NJ	-69	VA	-14	KY	+10 bp



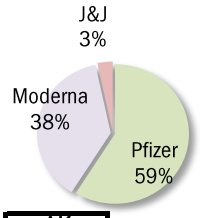
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	566,768,337				+0.489 million
Boosters	94,878,181				+0.218 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	260,923,664	78%	221,461,142	66%	+0.125 million
Age 12 to 17	17,292,153	68%	14,707,805	58%	+0.015 million
Age 18 to 64	175,910,431	86%	149,073,360	73%	+0.065 million
Age 65 and over	58,196,557	100%	50,327,547	92%	+0.008 million

Immunity	Full	Partial
US	64.6%	76.3%
UK	71.8%	77.1%
France	77.4%	80.0%
Spain	83.3%	87.8%
Germany	74.6%	75.6%
Italy	78.5%	83.8%
Australia	79.3%	85.4%
Israel	65.9%	72.1%
Canada	81.0%	85.5%
Japan	79.5%	80.7%
Africa	12.8%	17.9%
India	56.1%	69.2%
Brazil	72.1%	82.8%
China	85.3%	87.8%

Global data differs due to sources, timing



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

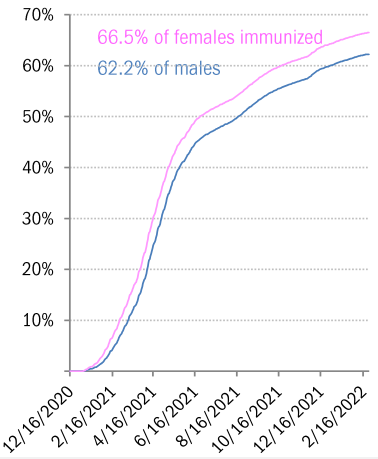
"Immunity" = two doses

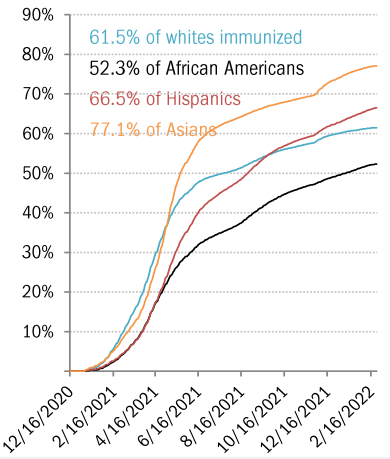
Best
Middle
Worst

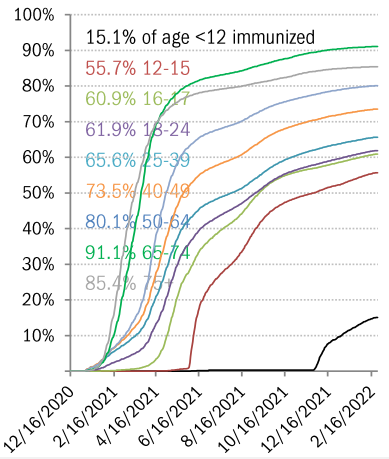
As of Feb 24

					WI					ME
					71.0%					89.2%
					64.5%					78.3%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
79.7%	60.2%	64.4%	64.4%	74.3%	76.0%	66.0%		88.8%	92.8%	95.0%
71.3%	53.0%	55.9%	54.4%	68.1%	67.4%	59.1%		75.4%	80.1%	69.8%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
76.9%	73.9%	57.9%	74.8%	67.2%	60.6%	62.8%	83.2%	88.9%	95.0%	
68.6%	59.6%	50.5%	59.8%	61.0%	54.0%	57.5%	66.9%	74.1%	77.6%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
81.7%	71.2%	78.3%	69.3%	65.3%	65.2%	64.1%	84.4%	84.7%	93.8%	95.0%
70.3%	63.3%	69.1%	62.4%	55.0%	56.4%	56.7%	71.9%	73.9%	77.7%	80.5%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	71.3%	85.9%	73.3%	65.7%	61.3%	82.2%	66.4%	95.0%	81.6%	
	60.0%	69.5%	60.0%	53.4%	53.5%	59.3%	55.8%	71.3%	67.5%	
			OK	LA	MS	AL	GA			
			69.9%	60.0%	58.7%	61.8%	64.3%			
			56.0%	52.4%	50.8%	50.2%	53.5%			
HI			TX					FL		PR
86.1%			70.8%					78.0%		95.0%
77.1%			59.9%					65.8%		81.2%

The demographics of US vaccination



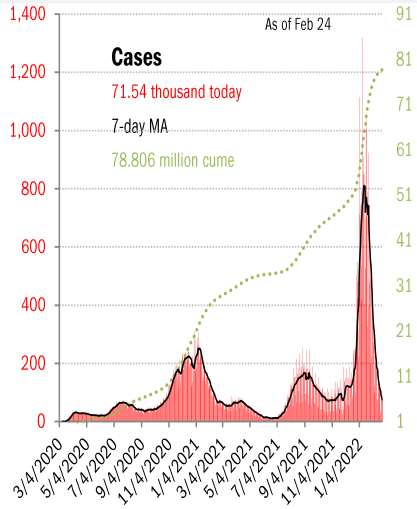


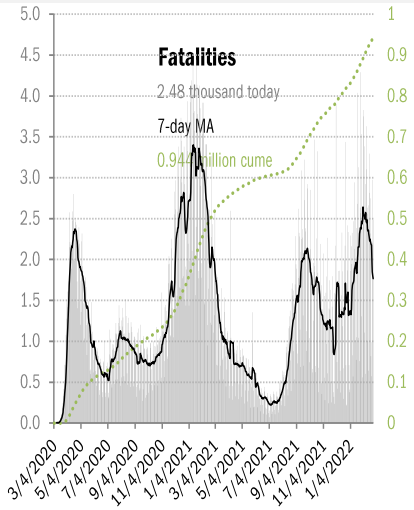


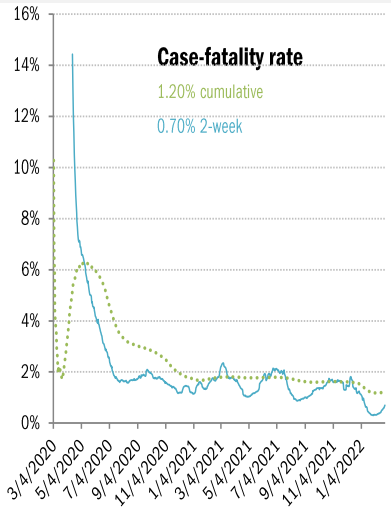
Source: CDC, CDC, Our World in Data, TrendMacro calculations

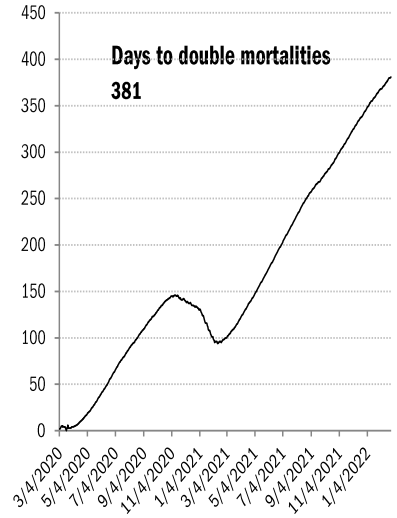
US deep-dive

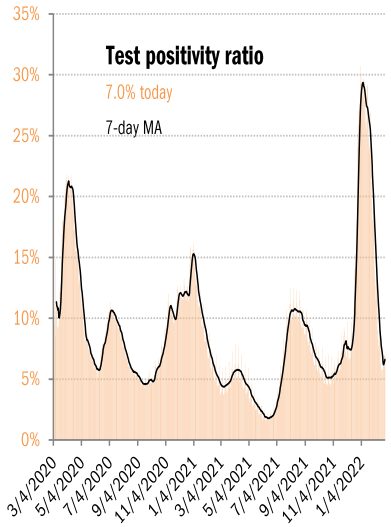
National and state-by-state data do not line up because of different sources

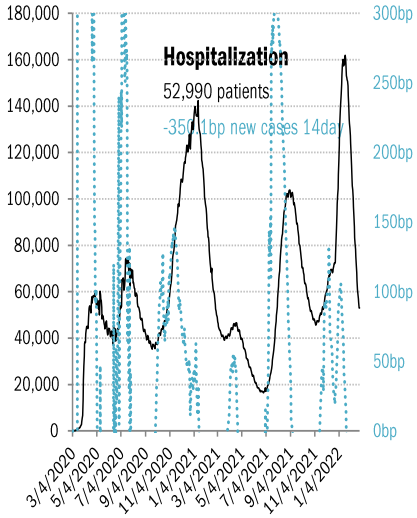


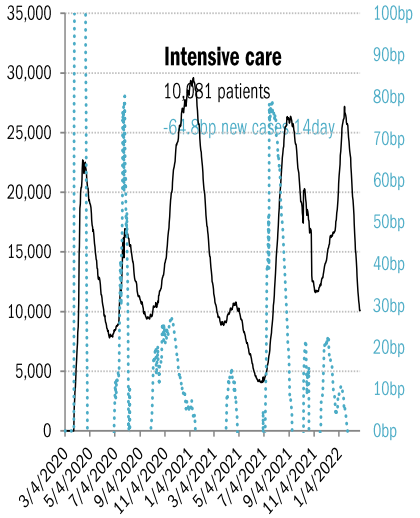


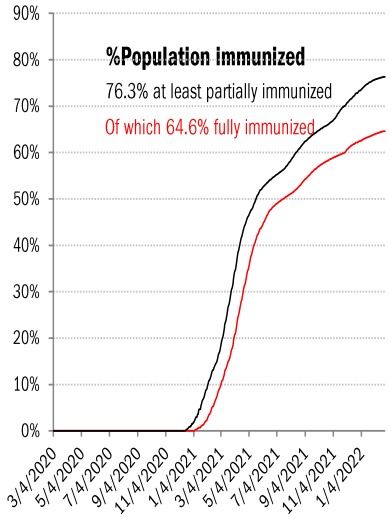












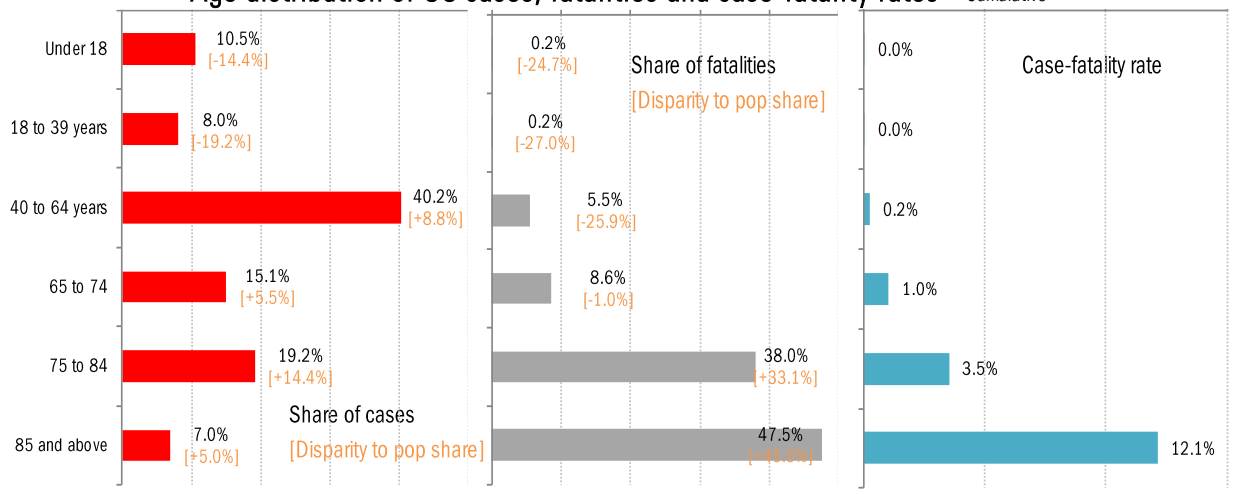
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

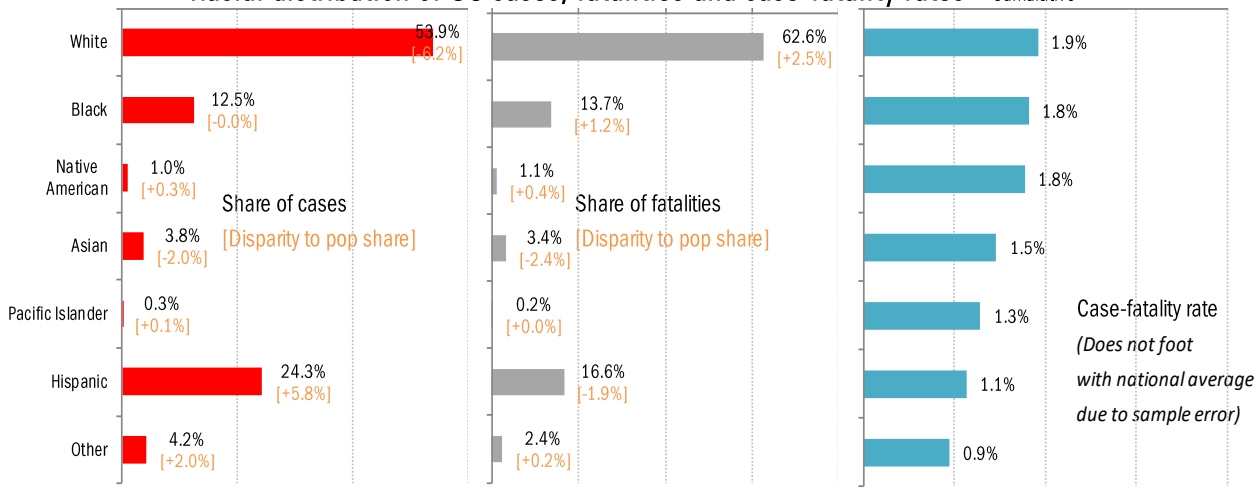
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



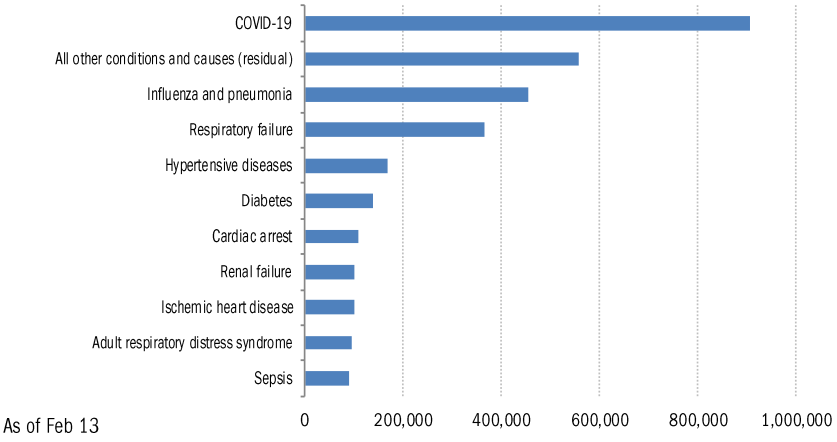
Racial distribution of US cases, fatalities and case-fatality rates

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

The School Shutdowns and Lost Literacy
Wall Street Journal
February 24, 2022

More evidence Covid was tinkered with in a lab? Now scientists find virus contains tiny chunk of DNA that matches sequence patented by Moderna THREE YEARS before pandemic began
Connor Boyd
Daily Mail
February 23, 2022

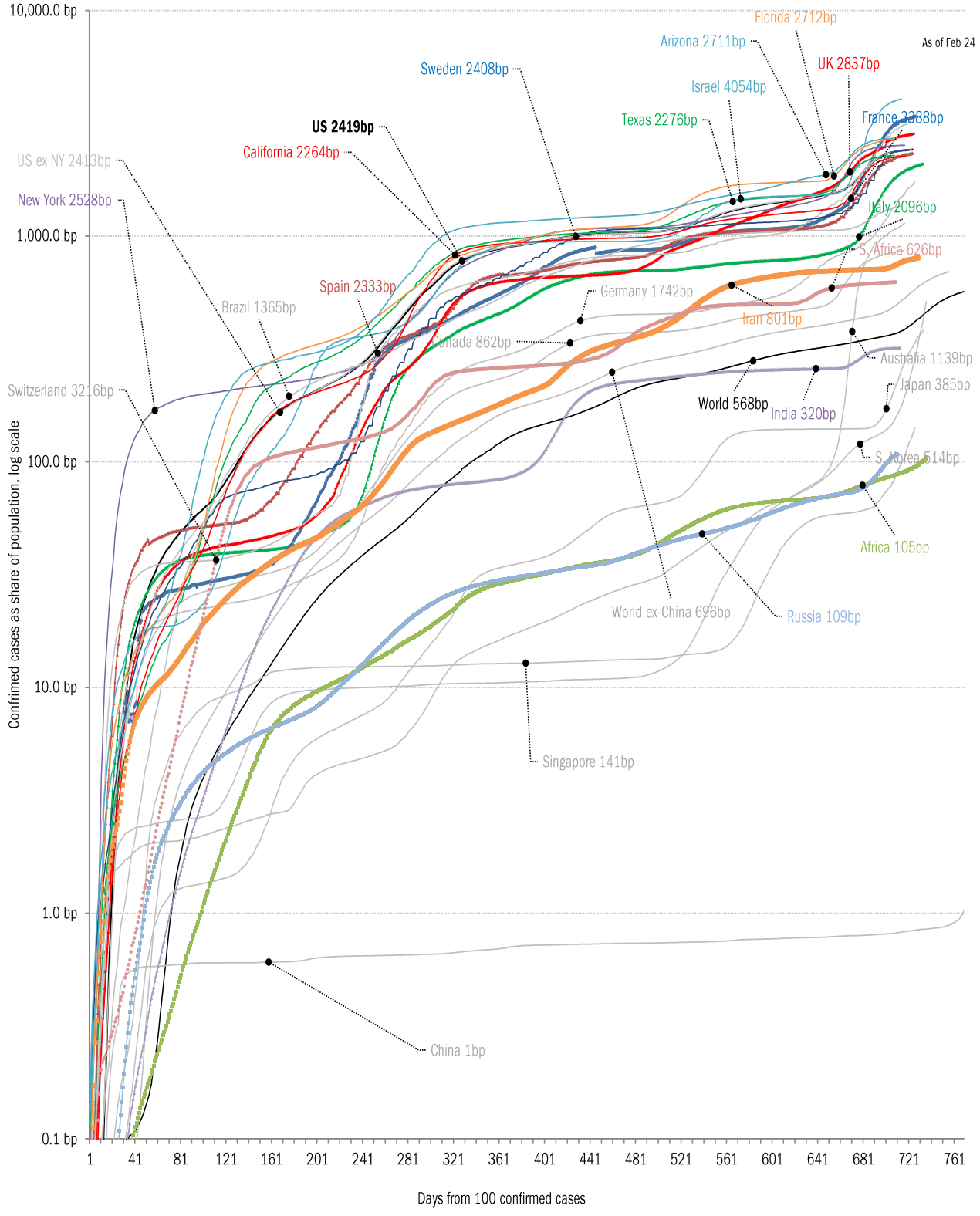
MSH3 Homology and Potential Recombination Link to SARS-CoV-2 Furin Cleavage Site
Balamurali K. Ambati et al.
Frontiers in Virology
February 21, 2022

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

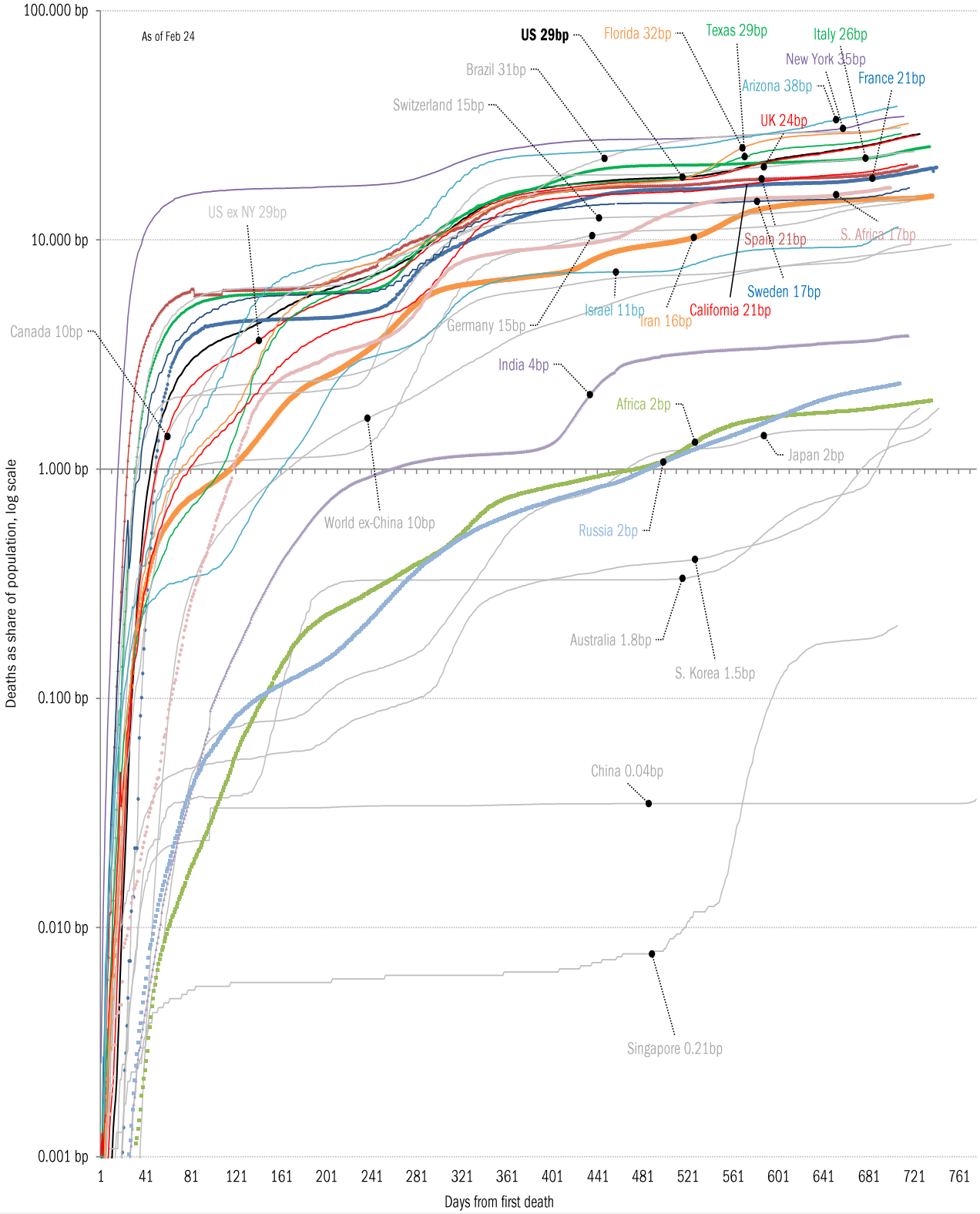
Share of infected population from first day with 100 confirmed cases, log scale



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

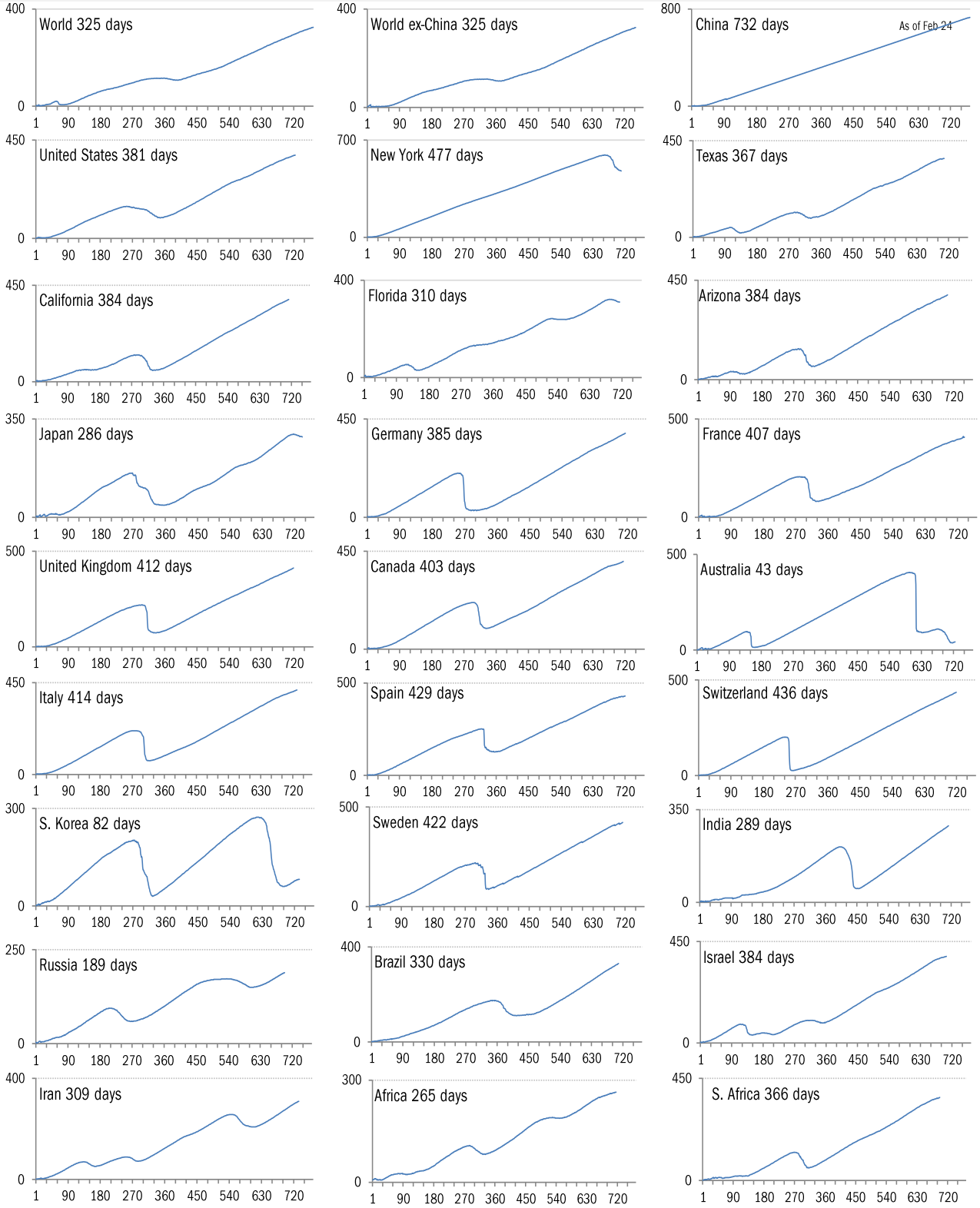


Source: Johns Hopkins, TrendMacro calculations

"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

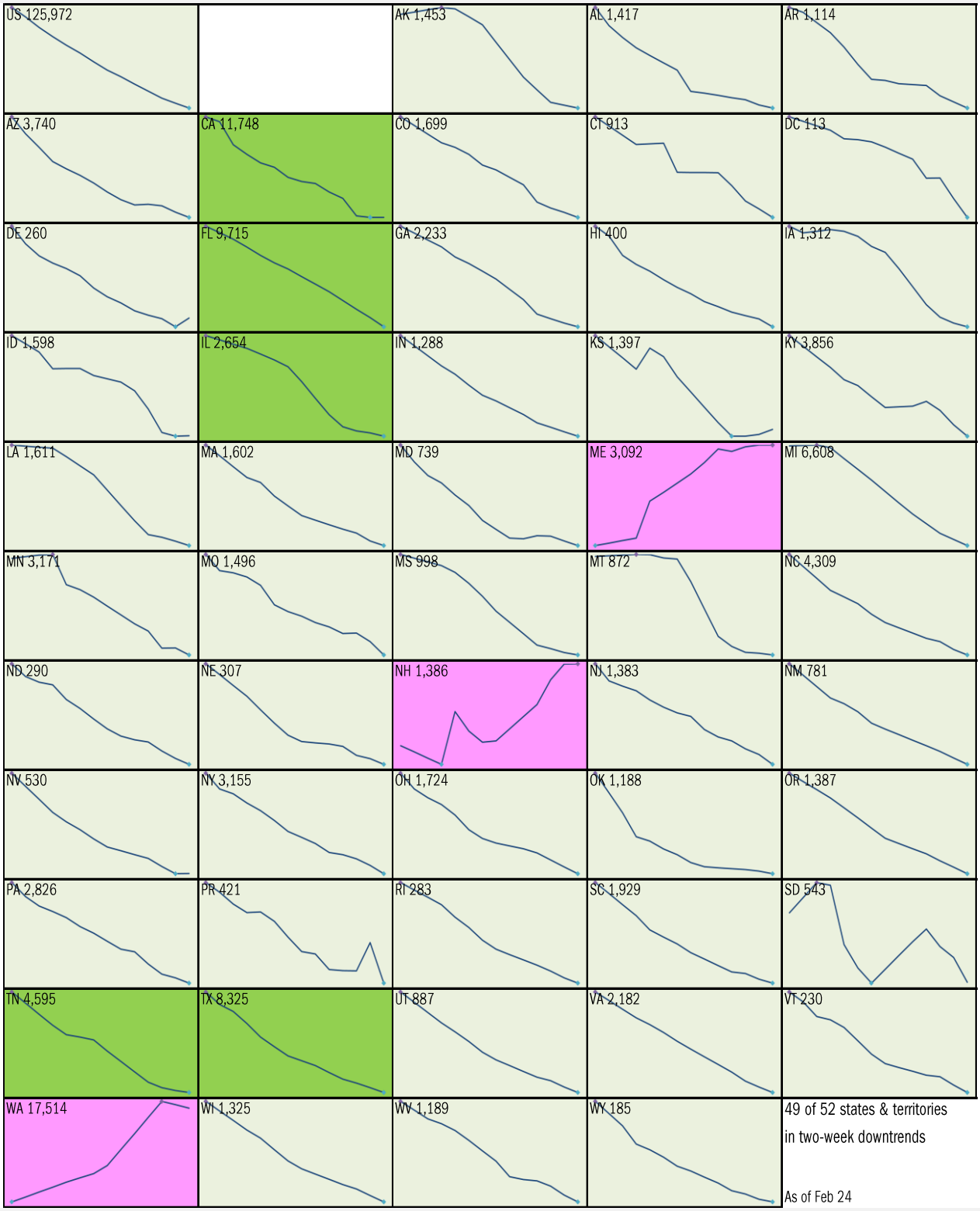


Source: Johns Hopkins, TrendMacro calculations

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

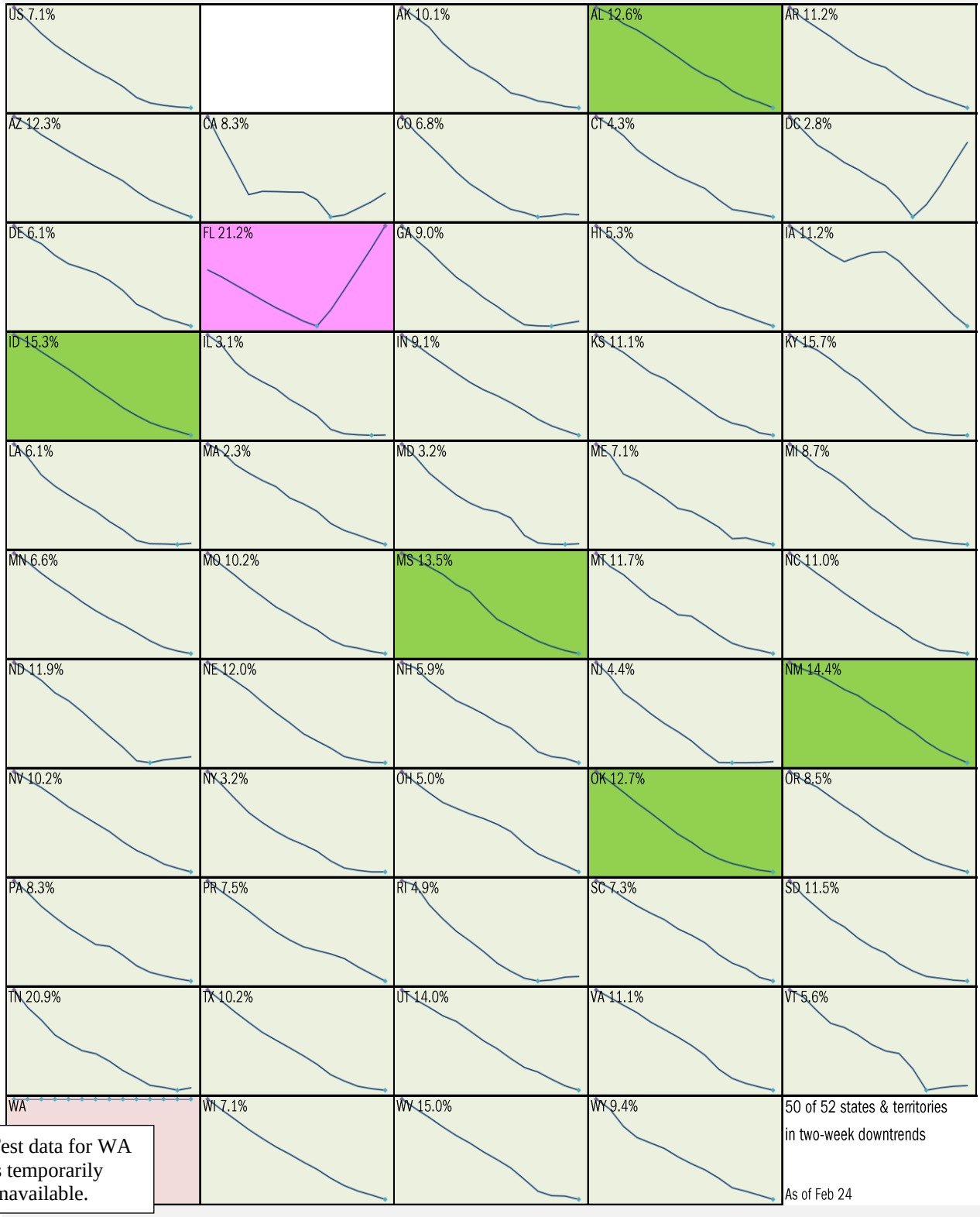


Source: Johns Hopkins, TrendMacro calculations

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

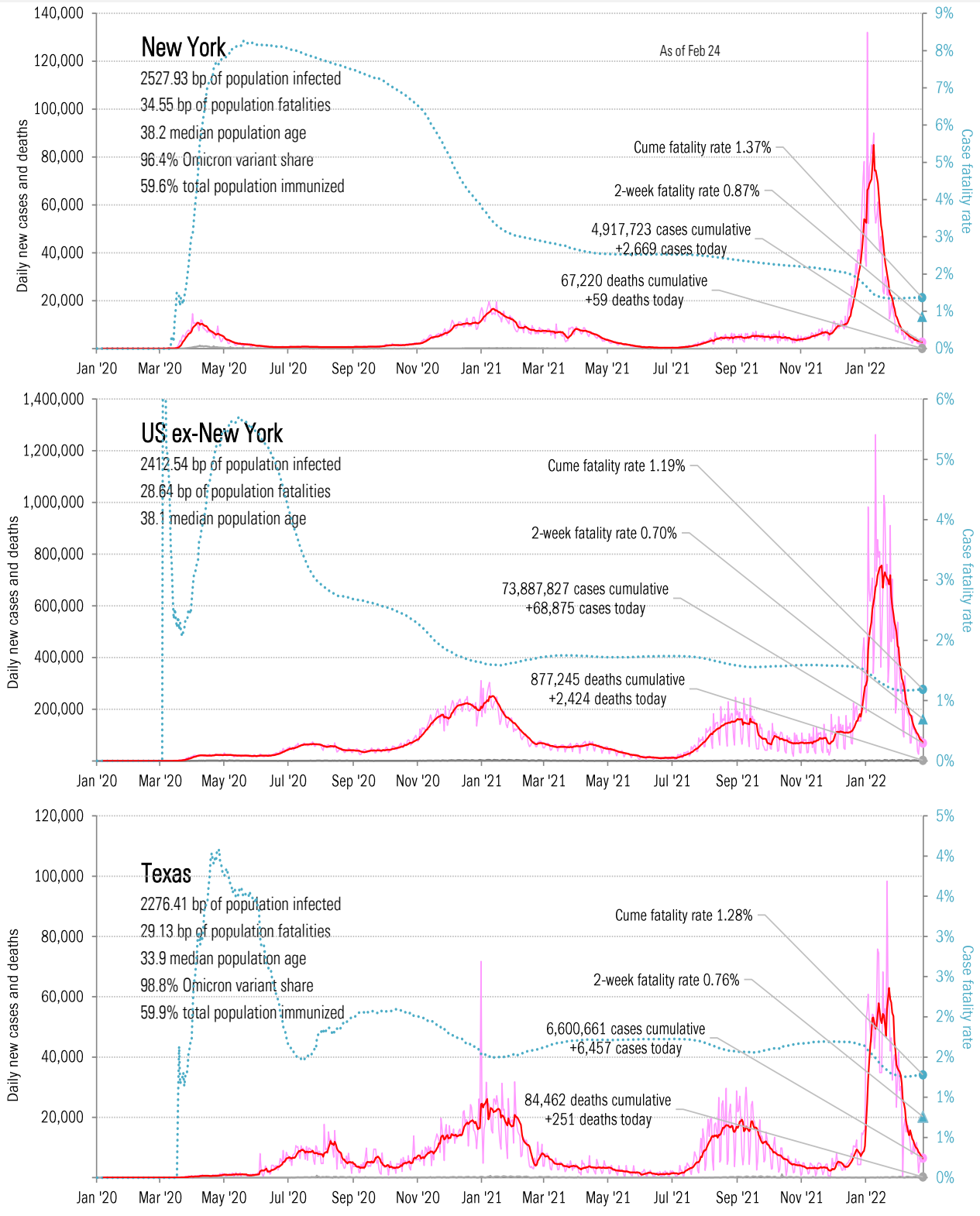


Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

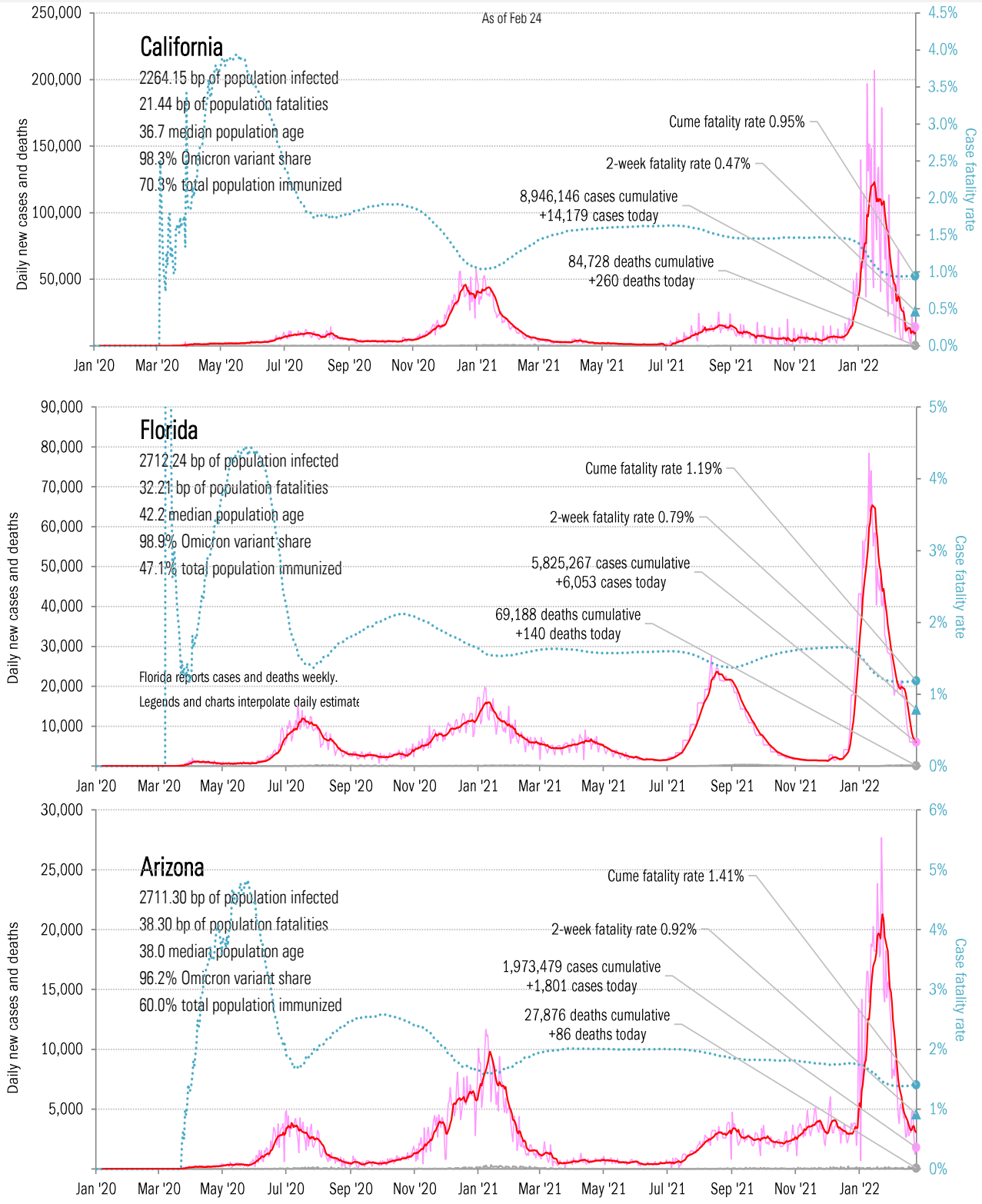
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

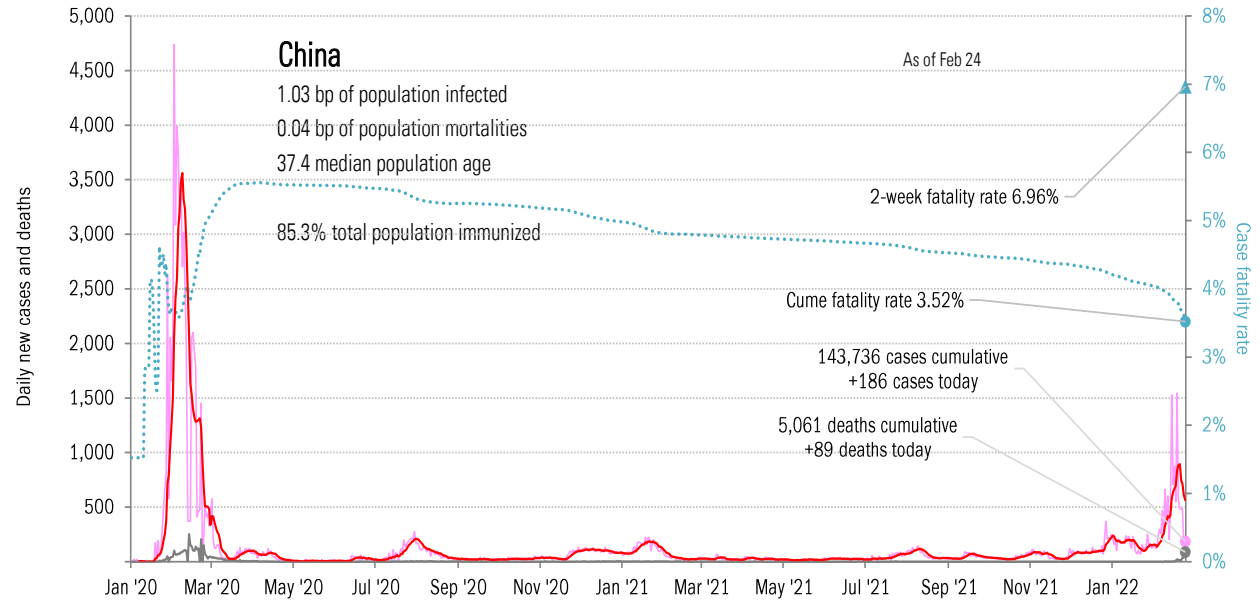
Cases: 7-day average and daily Deaths: Daily

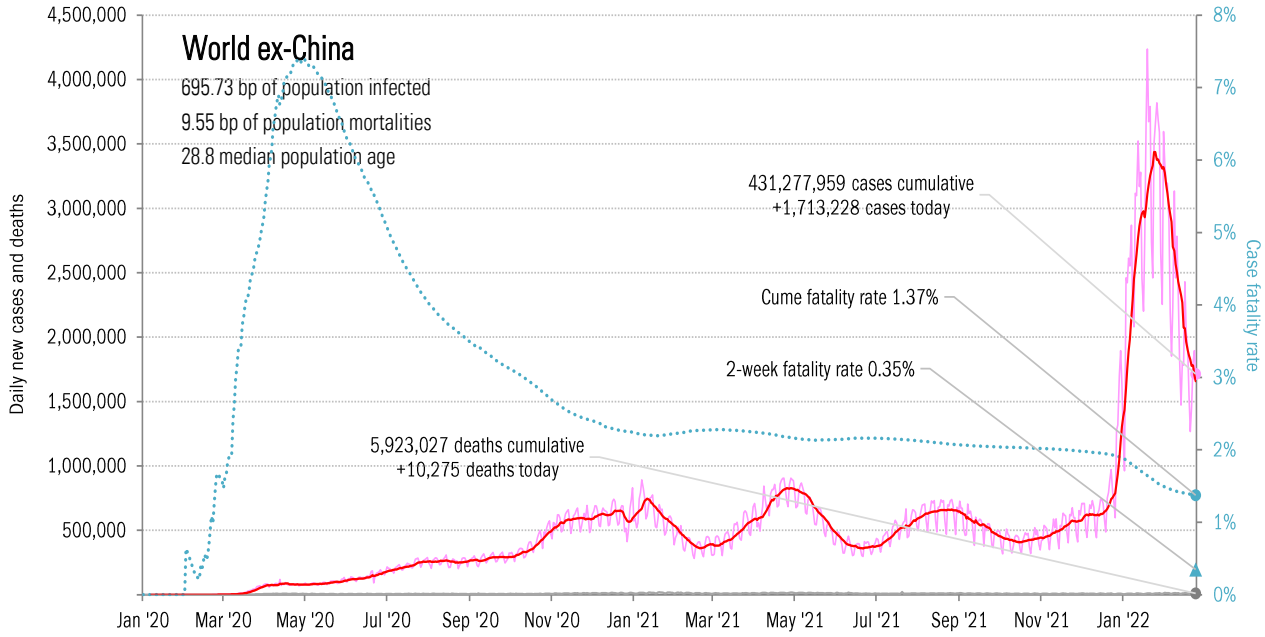


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

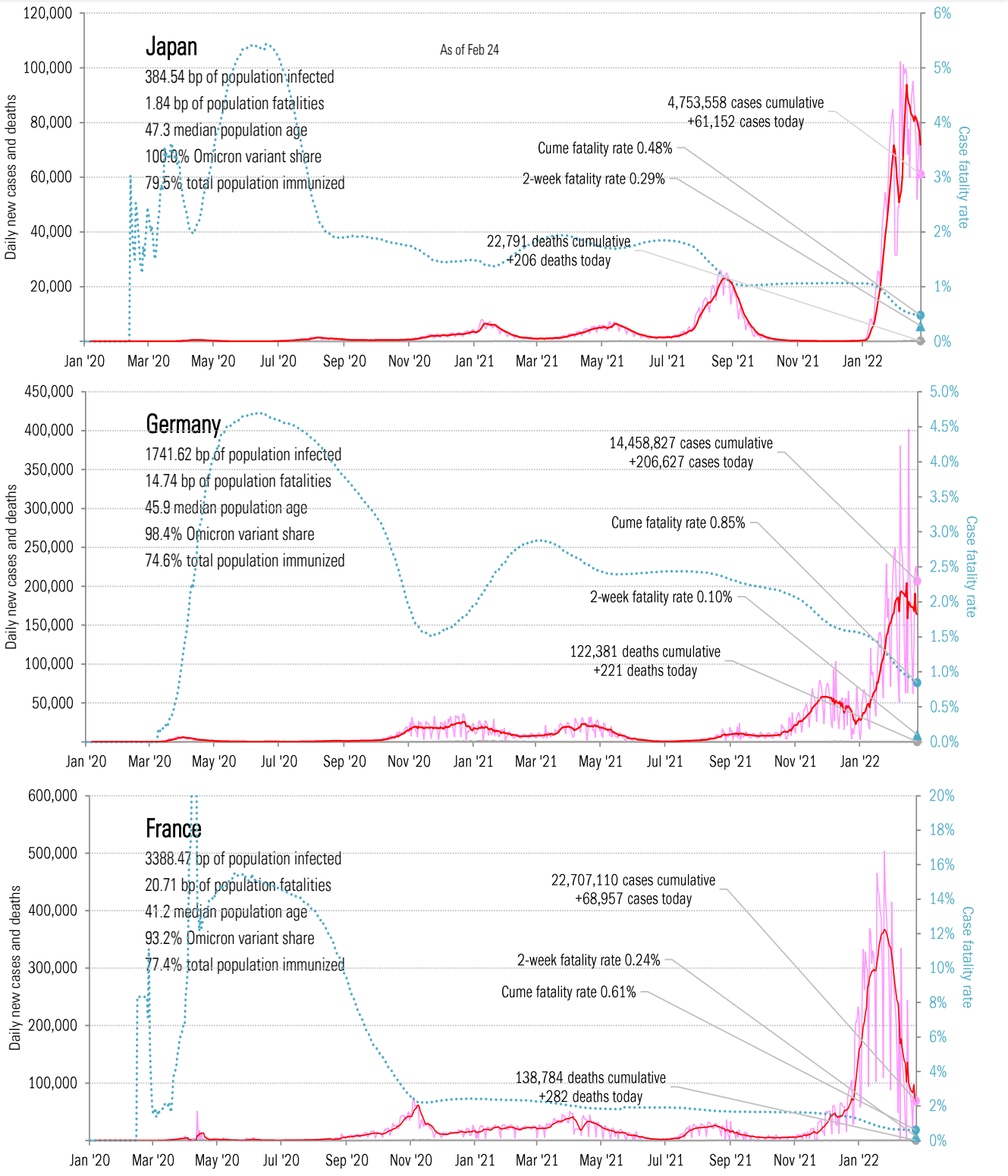




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

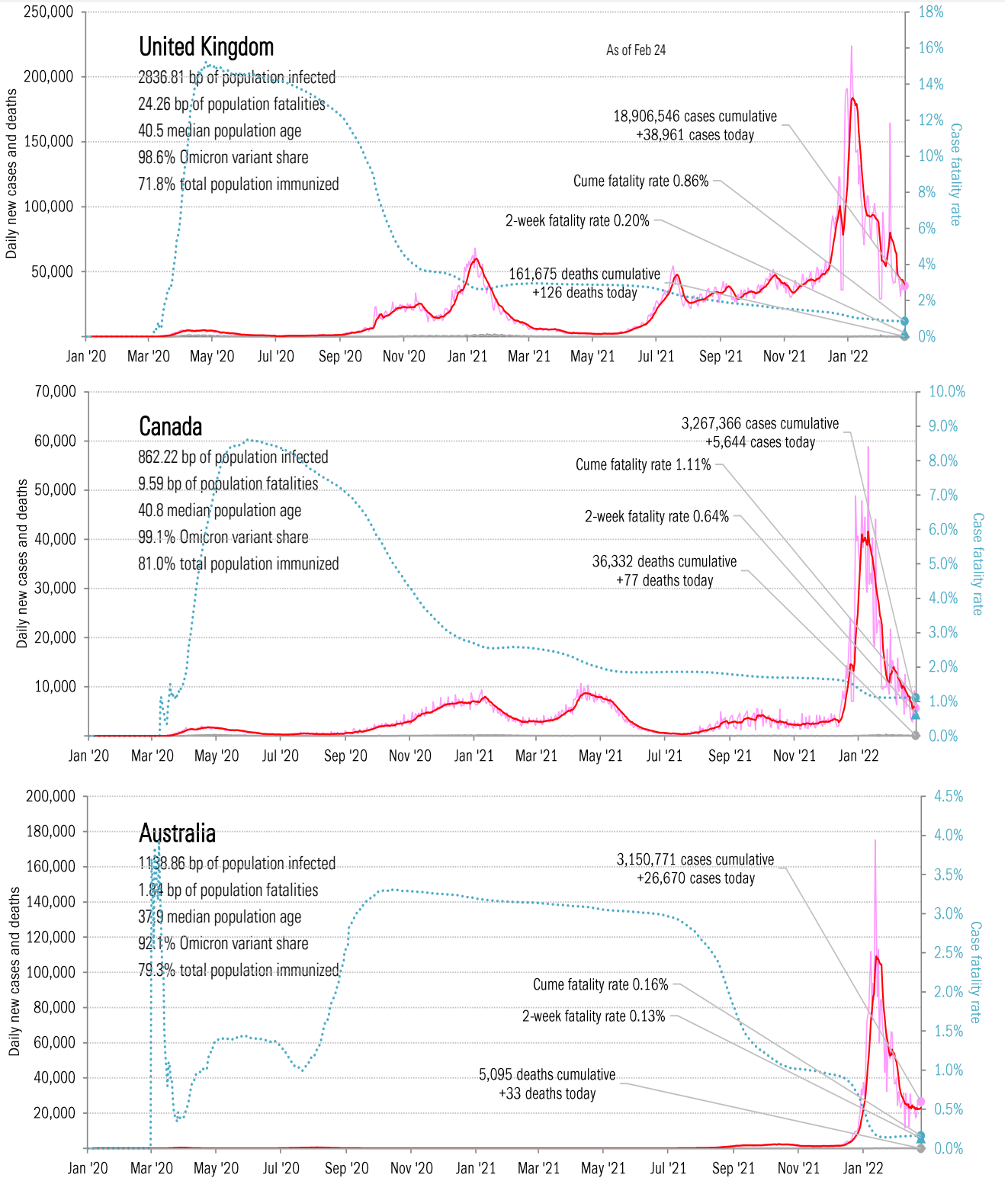
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

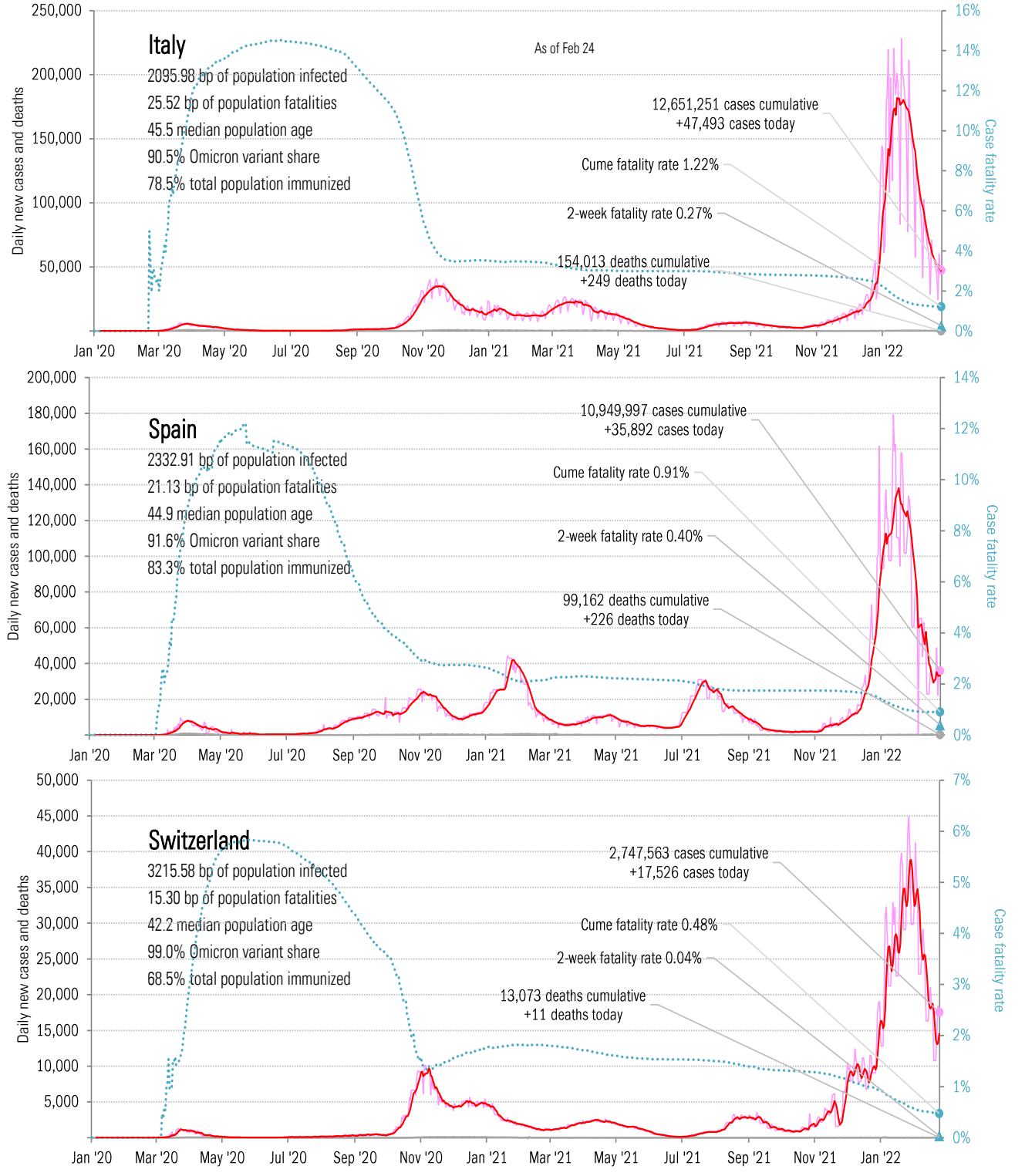
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

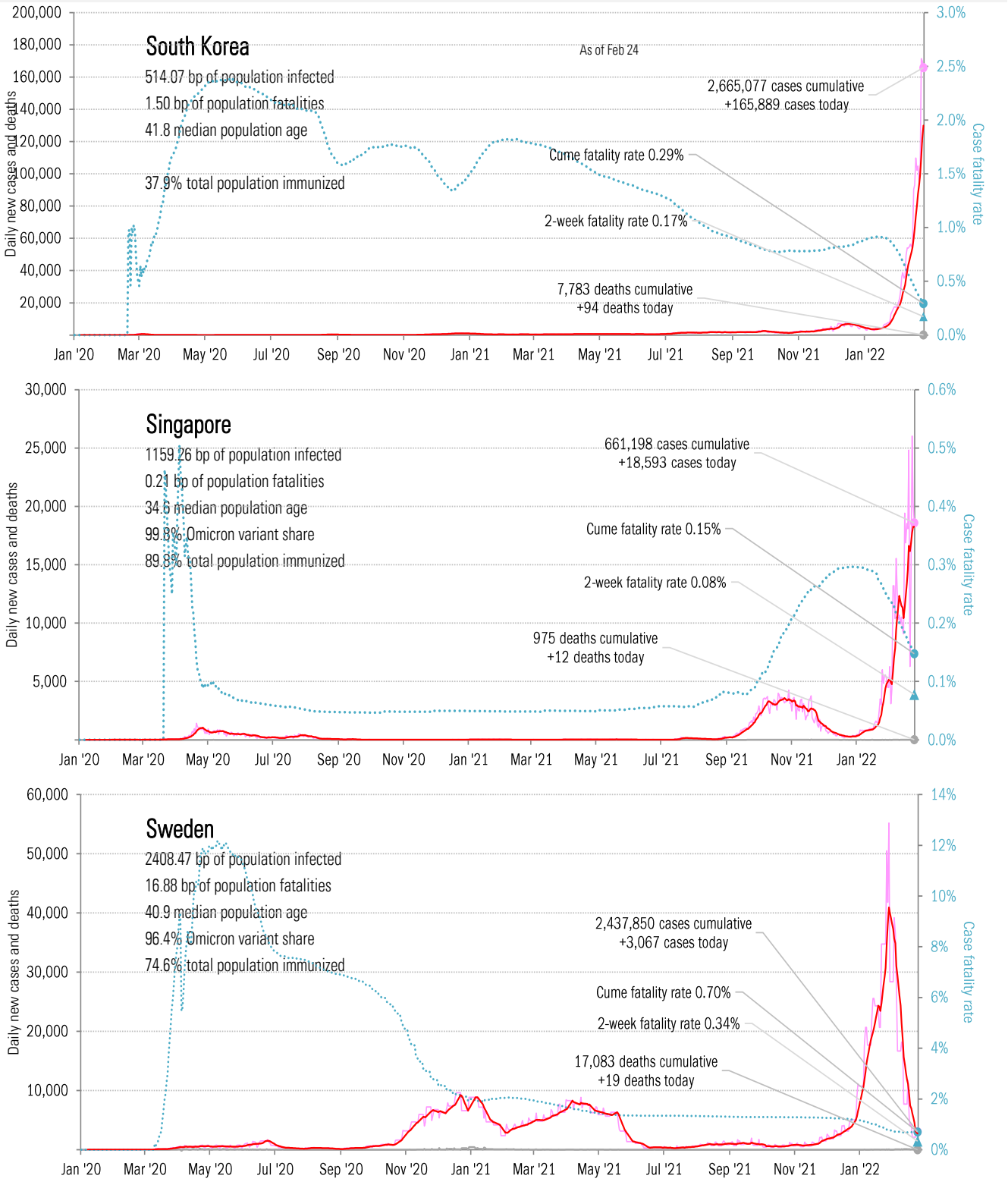
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

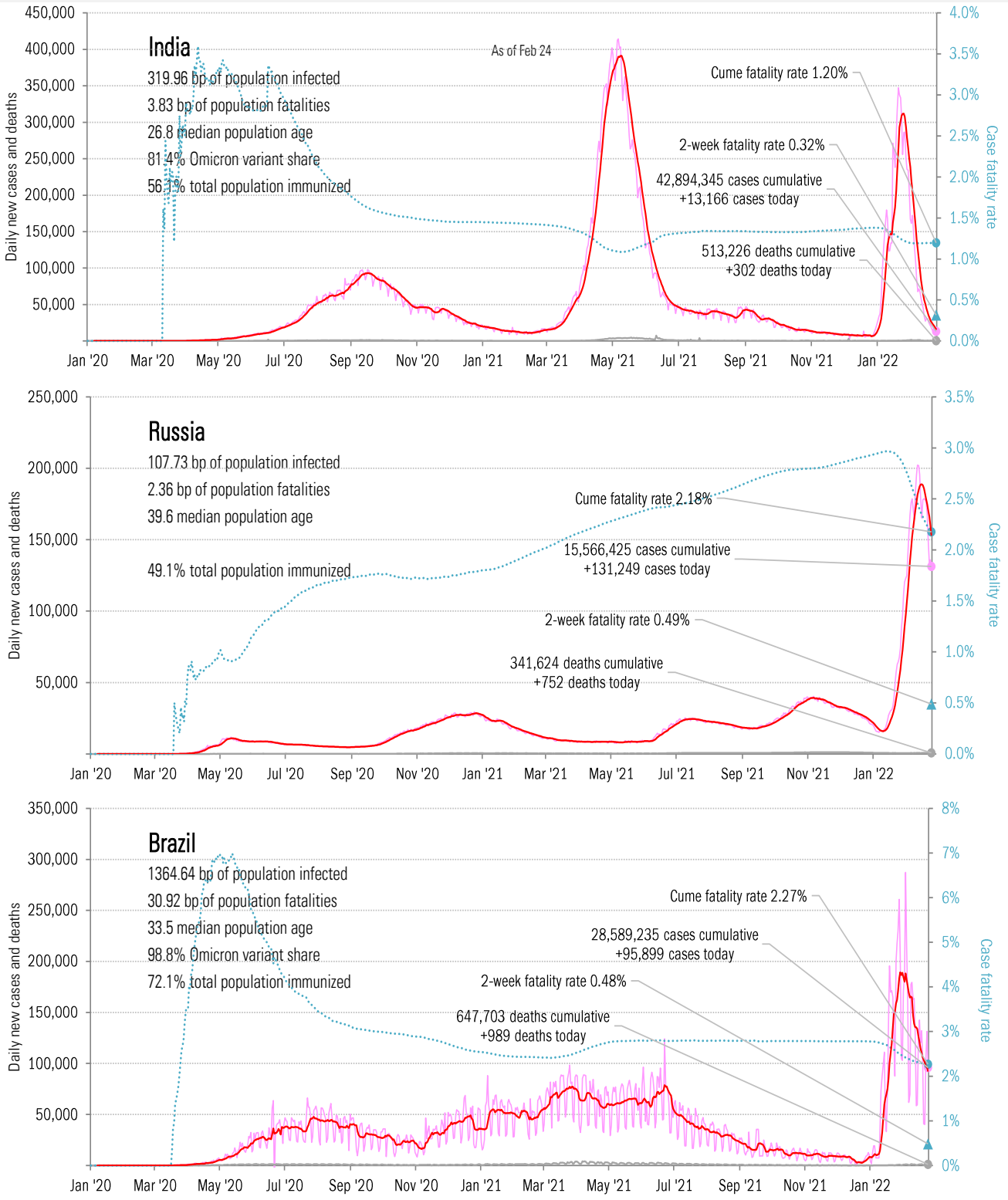
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

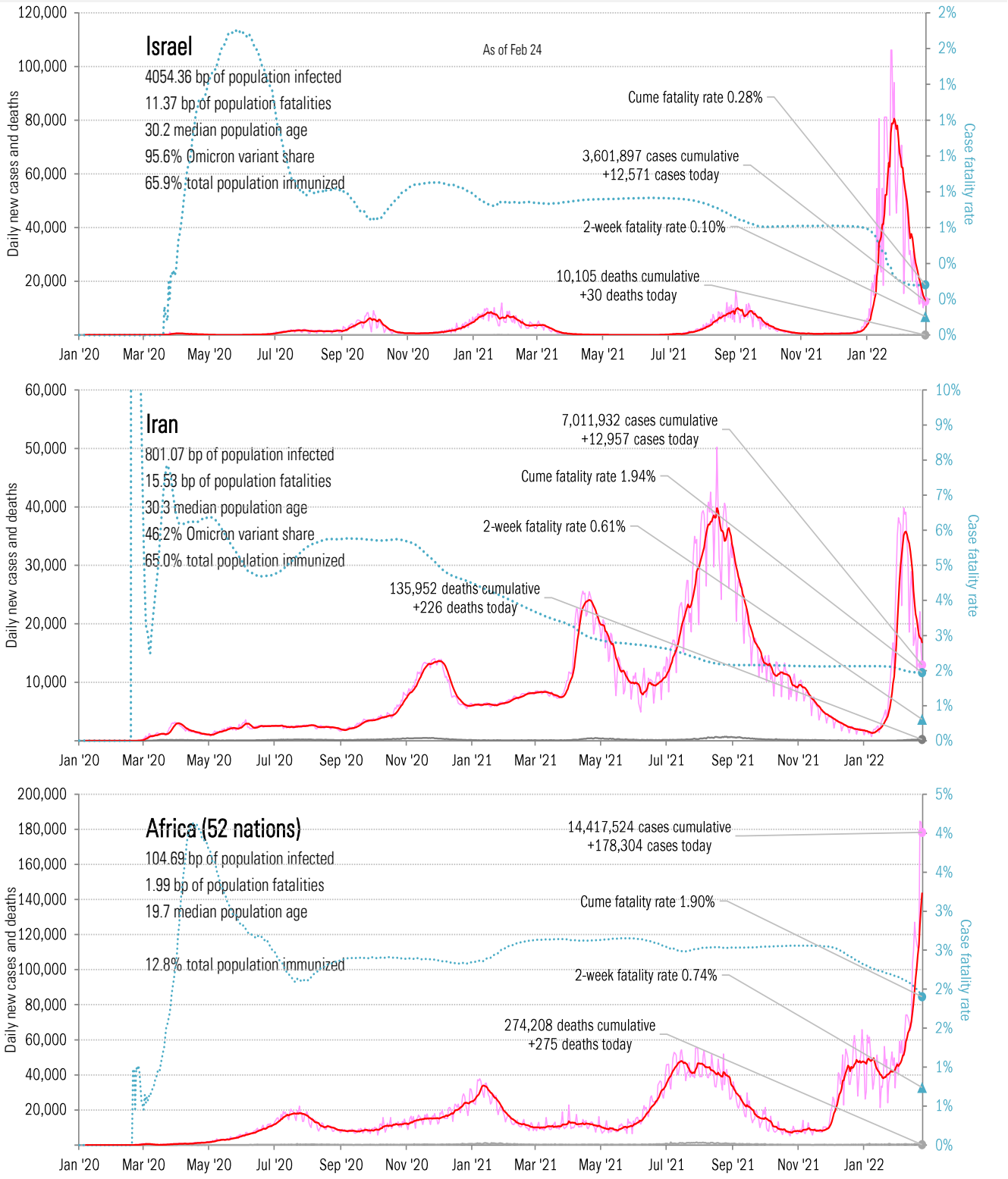
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

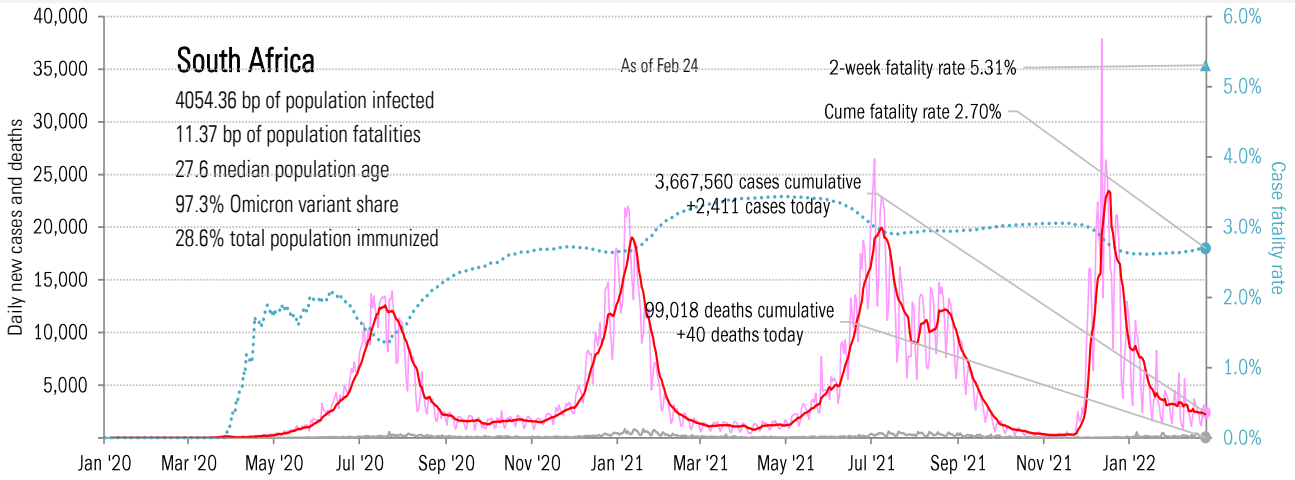
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations