Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

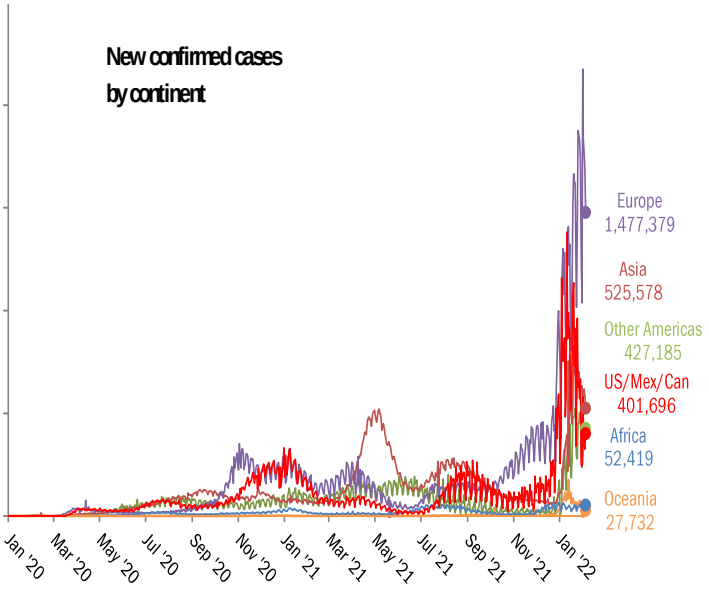
Saturday, February 5, 2022

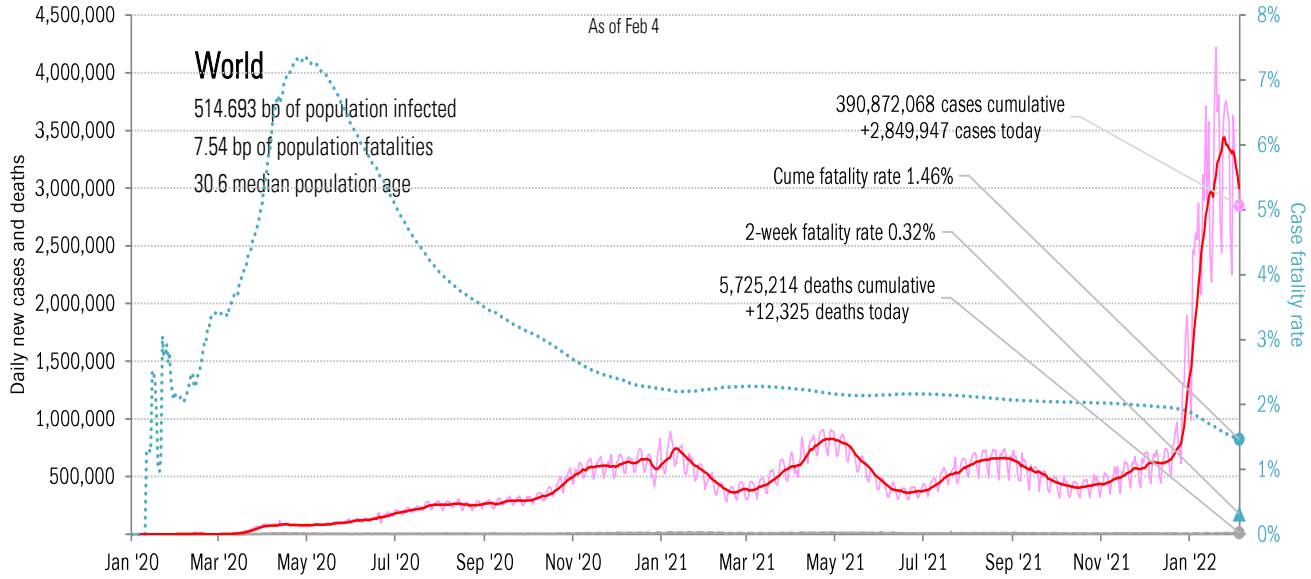
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	309,405	United States	3,335
France	242,349	Mexico	1,336
Brazil	218,560	India	1,059
Germany	214,386	Brazil	964
Russia	166,957	Russia	668
India	127,952	Italy	433
Turkey	111,157	France	355
Italy	100,900	Argentina	287
Japan	98,177	United Kingdom	255
United Kingdom	82,470	Turkey	248
	1,672,313		8,940
World	2,849,947	World	12,325
Top ten	59%	Top ten	73%





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

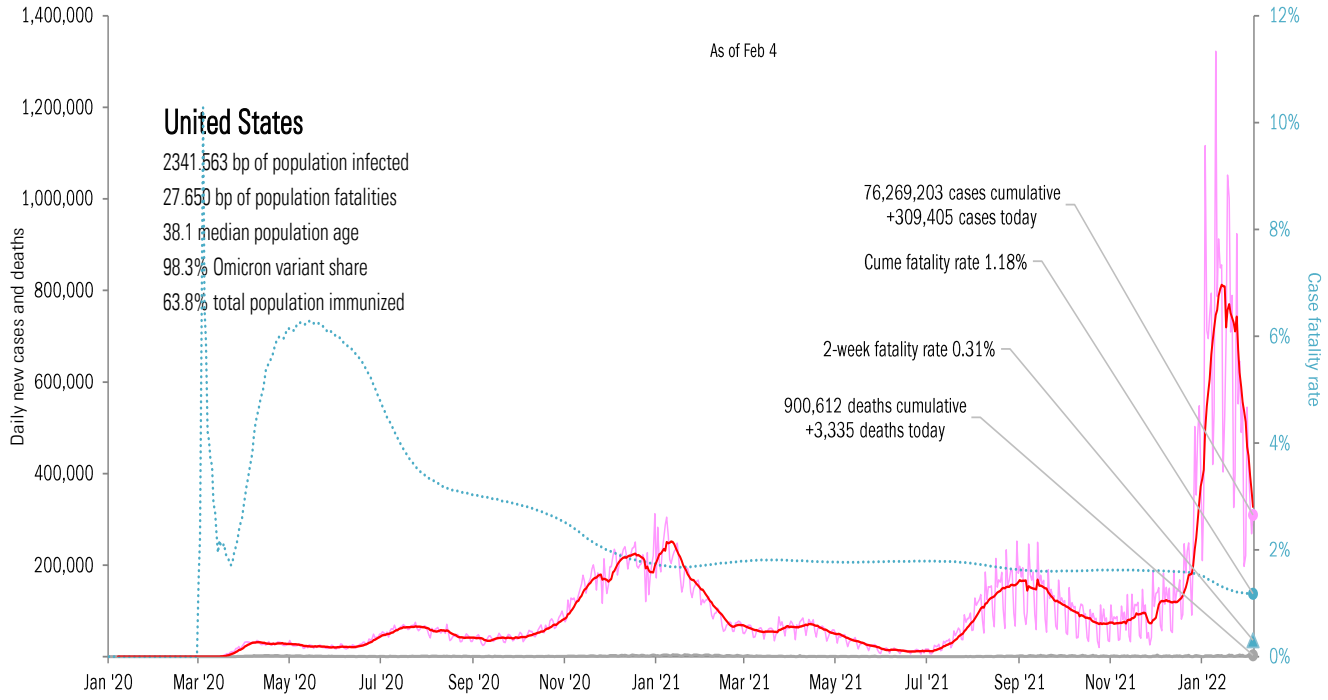
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TN	23,539	CA	239	NM	37	CA	8,610,580	CA	80,917	TX	463,797	GA	88%	AL	93%
CA	22,671	MI	235	ME	15	TX	6,381,378	TX	80,461	CA	396,680	WV	87%	TX	92%
TX	22,164	FL	190	SD	10	FL	5,568,728	NY	65,578	FL	394,465	MA	87%	GA	92%
FL	18,766	IL	173	AR	6	NY	4,839,516	FL	65,503	NY	234,082	MD	85%	NV	91%
IL	18,464	TX	169	UT	4	IL	2,957,563	PA	41,359	GA	195,218	RI	85%	KY	90%
NC	12,385	PA	160	DE	3	PA	2,688,808	OH	34,217	OH	182,354	NH	85%	NH	90%
WA	12,335	NY	157	VT	3	OH	2,605,245	IL	33,729	PA	167,600	PA	84%	RI	90%
MI	12,040	AL	156	WY	3	NC	2,470,242	GA	33,402	IL	149,584	MN	84%	MS	89%
AL	11,196	VA	155	MT	1	GA	2,403,125	MI	32,873	MI	134,022	MO	83%	OK	89%
AZ	9,077	KS	139	AS	0	MI	2,295,050	NJ	31,868	KY	133,541	WA	83%	AR	87%
	162,637		1,773		82		40,820,235		499,907		2,451,343				
All states	309,405		3,335		-3,278	All states	76,269,203		900,612		4,435,453	All states	70%		67%
Top ten	53%		53%		-3%	Top ten	53%		56%		55%	Median	79%		81%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-26,409	TX	-130	KY	-170	AK	+130 bp
TX	-8,071	SC	-88	OK	-168	UT	+20 bp
AR	-2,706	NC	-53	CA	-163	AZ	+10 bp
NC	-2,581	GA	-23	TN	-113	IL	+10 bp
IN	-2,302	IN	-22	CO	-105	IN	+10 bp



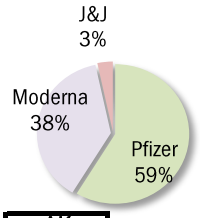
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	555,648,330				+0.603 million
Boosters	90,488,390				+0.310 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	258,256,682	77%	218,550,587	65%	+0.149 million
Age 12 to 17	17,026,583	67%	14,398,732	57%	+0.018 million
Age 18 to 64	174,267,221	86%	147,538,184	73%	+0.067 million
Age 65 and over	57,982,449	100%	50,144,607	92%	+0.005 million

Immunity	Full	Partial
US	63.8%	75.5%
UK	71.1%	76.8%
France	76.6%	79.8%
Spain	82.0%	87.6%
Germany	73.7%	75.3%
Italy	77.0%	83.6%
Australia	78.6%	84.5%
Israel	65.7%	72.0%
Canada	79.6%	85.1%
Japan	79.2%	80.4%
Africa	10.9%	16.1%
India	52.0%	68.1%
Brazil	70.4%	80.3%
China	85.0%	87.7%

Global data differs due to sources, timing



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

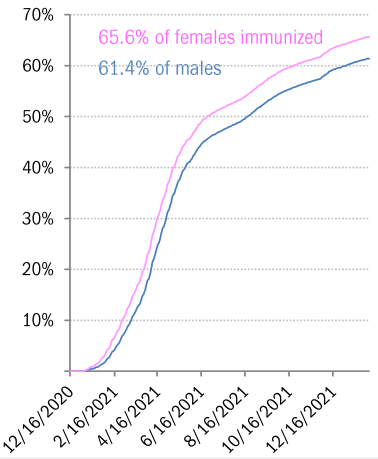
"Immunity" = two doses

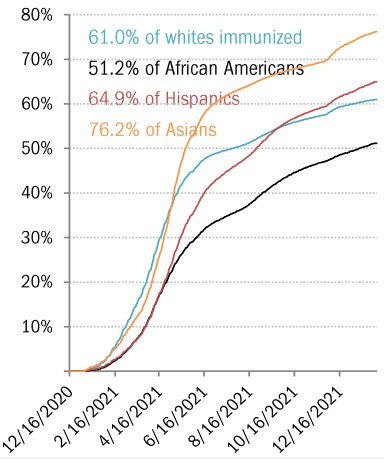
Best
Middle
Worst

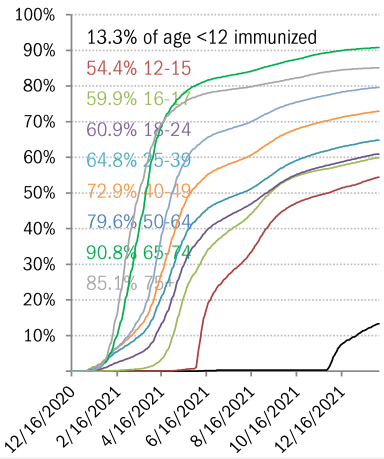
As of Feb 4

					WI					ME
					70.5%					88.7%
					63.8%					77.7%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
78.9%	59.7%	63.9%	64.1%	73.7%	75.4%	65.4%		87.8%	92.3%	95.0%
70.2%	52.4%	55.4%	54.1%	67.3%	66.3%	58.4%		74.4%	79.5%	69.0%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
76.3%	73.1%	57.4%	74.1%	66.8%	60.1%	62.4%	82.3%	87.8%	95.0%	
68.0%	58.7%	50.0%	59.1%	60.5%	53.4%	57.0%	66.0%	73.2%	76.6%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
80.7%	70.1%	77.6%	68.8%	64.8%	64.8%	63.7%	83.4%	83.9%	92.8%	94.9%
69.3%	60.9%	68.4%	61.8%	54.5%	55.8%	56.3%	70.8%	72.9%	76.8%	79.3%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	70.4%	84.8%	72.7%	65.2%	60.8%	81.2%	65.8%	93.6%	80.7%	
	59.0%	68.6%	59.3%	52.9%	52.9%	58.6%	55.1%	70.3%	66.5%	
			OK	LA	MS	AL	GA			
			69.4%	59.6%	58.3%	61.3%	63.8%			
			55.3%	51.9%	50.3%	49.6%	53.0%			
HI			TX					FL		PR
85.3%			69.9%					77.3%		93.6%
76.2%			59.1%					65.2%		79.8%

The demographics of US vaccination



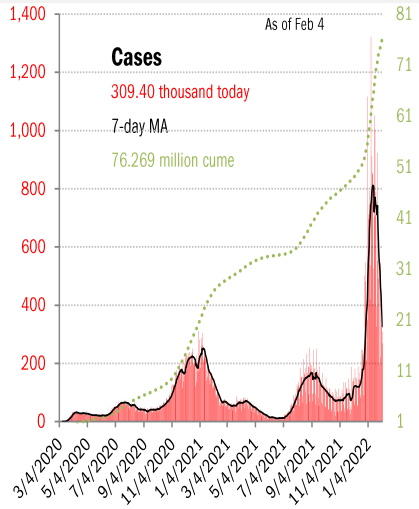


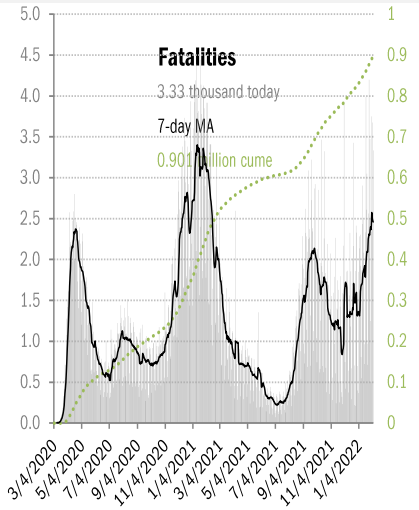


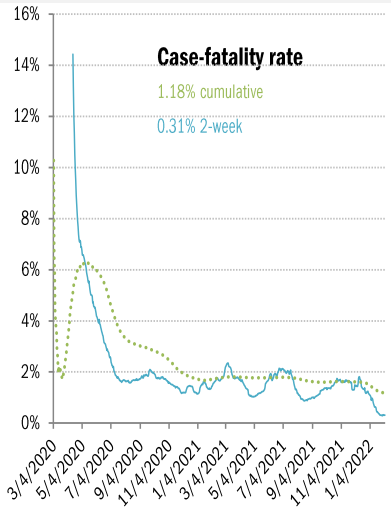
Source: CDC, CDC, Our World in Data, TrendMacro calculations

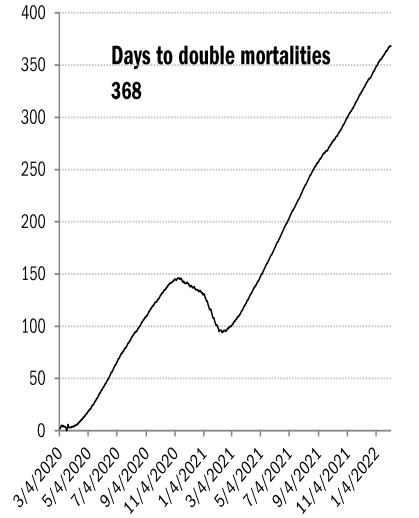
US deep-dive

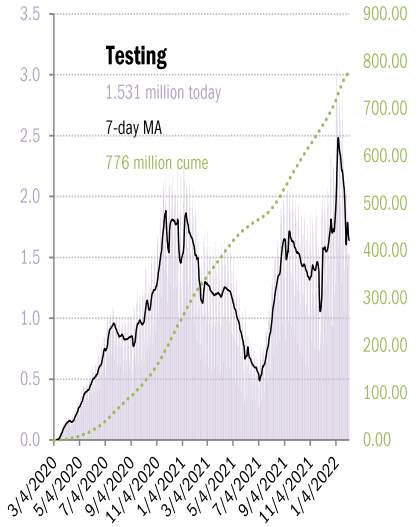
National and state-by-state data do not line up because of different sources

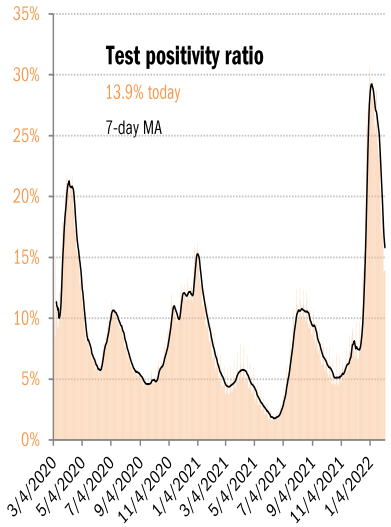


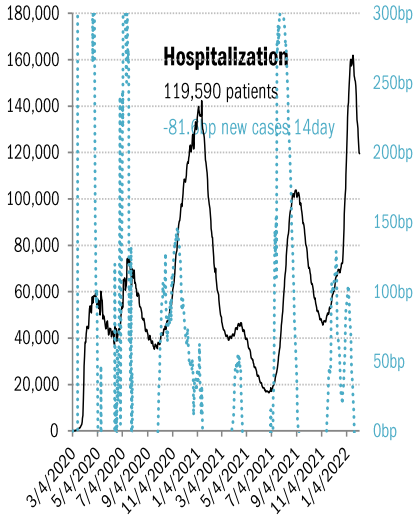


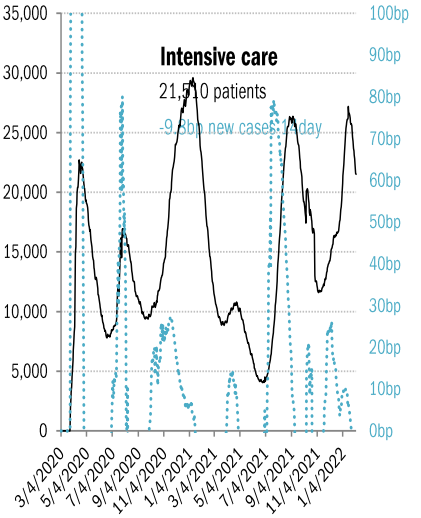


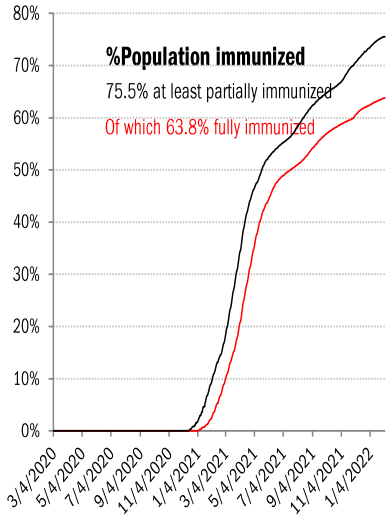










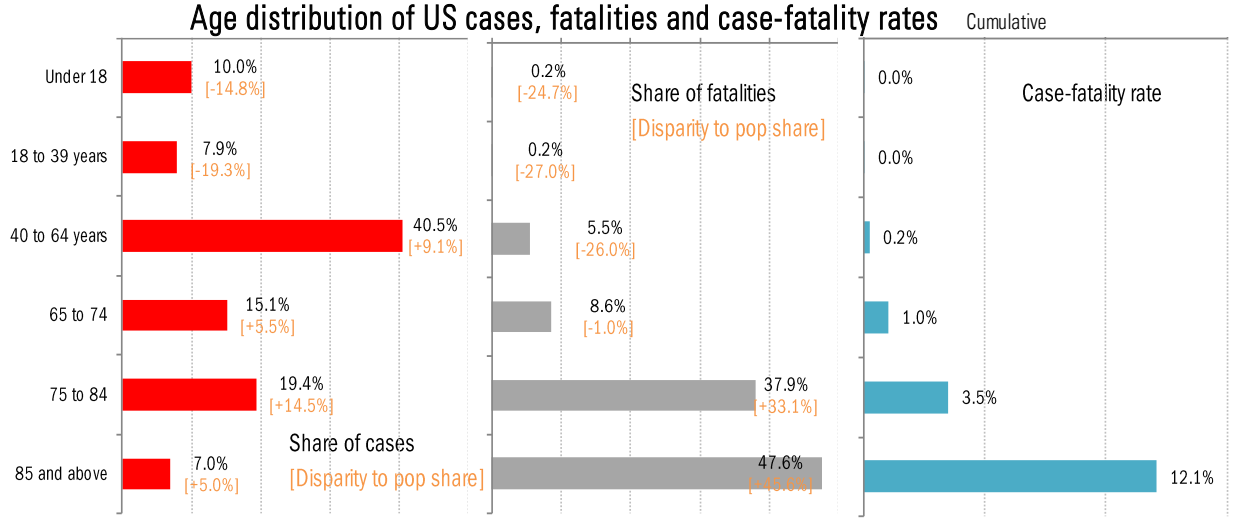


Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

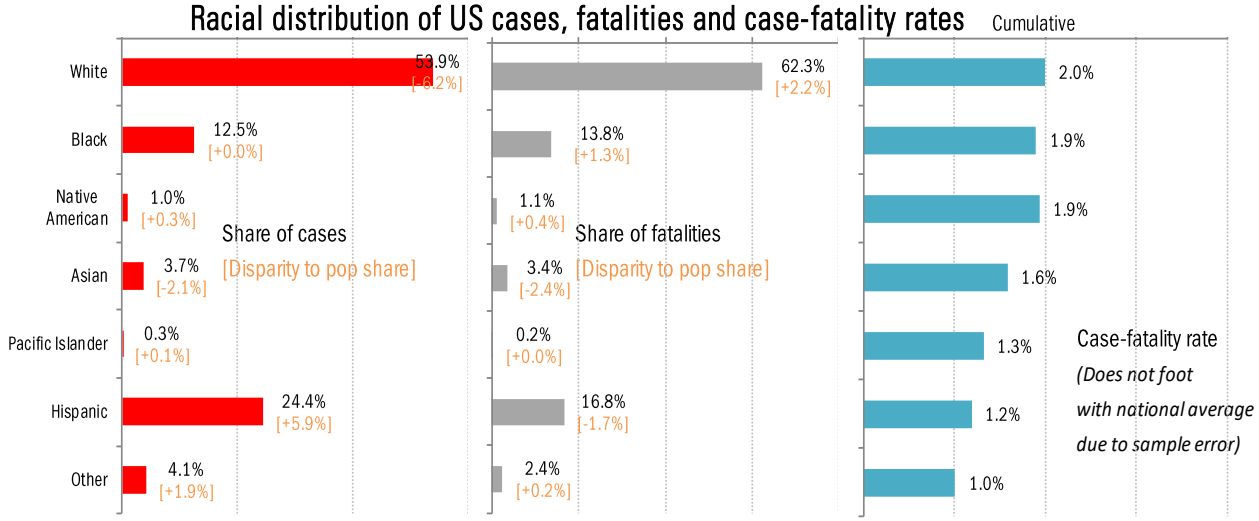
US deep-dive on the demographics of age, race and health

Updates weekly on Sundays

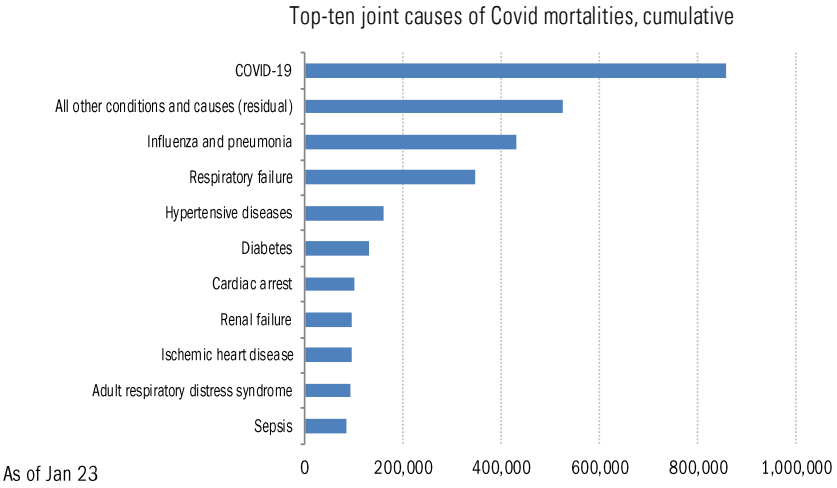
Age distribution of US cases, fatalities and case-fatality rates



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



Comorbidities



As of Jan 23

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 British Medical Journal Story That Exposed Politicized "Fact-Checking"]
Matt Taibbi
TK News
February 1, 2022

[Tear Down These Masks]
James Freeman
Wall Street Journal
February 4, 2022

['Democrats woke a sleeping giant': Why parents say they've had enough]
Story Hinckley
Christian Science Monitor
February 3, 2022

[Kids Full of Life, Adults Obsessed with Death]
Jeffrey H. Anderson
City Journal
February 3, 2022

[Fauci is the villain in new GOP campaign ads]
Stephanie Murray
Politico
February 4, 2022

[Covid-19 Commission Modeled on 9/11 Inquiry Draws Bipartisan Backing]
Sheryl Gay Stolberg
New York Times
February 4, 2022

[Pre-infection 25-hydroxyvitamin D3 levels and association with severity of COVID-19 illness]
Amiel A. Dror et al
PLOS One
February 3, 2022

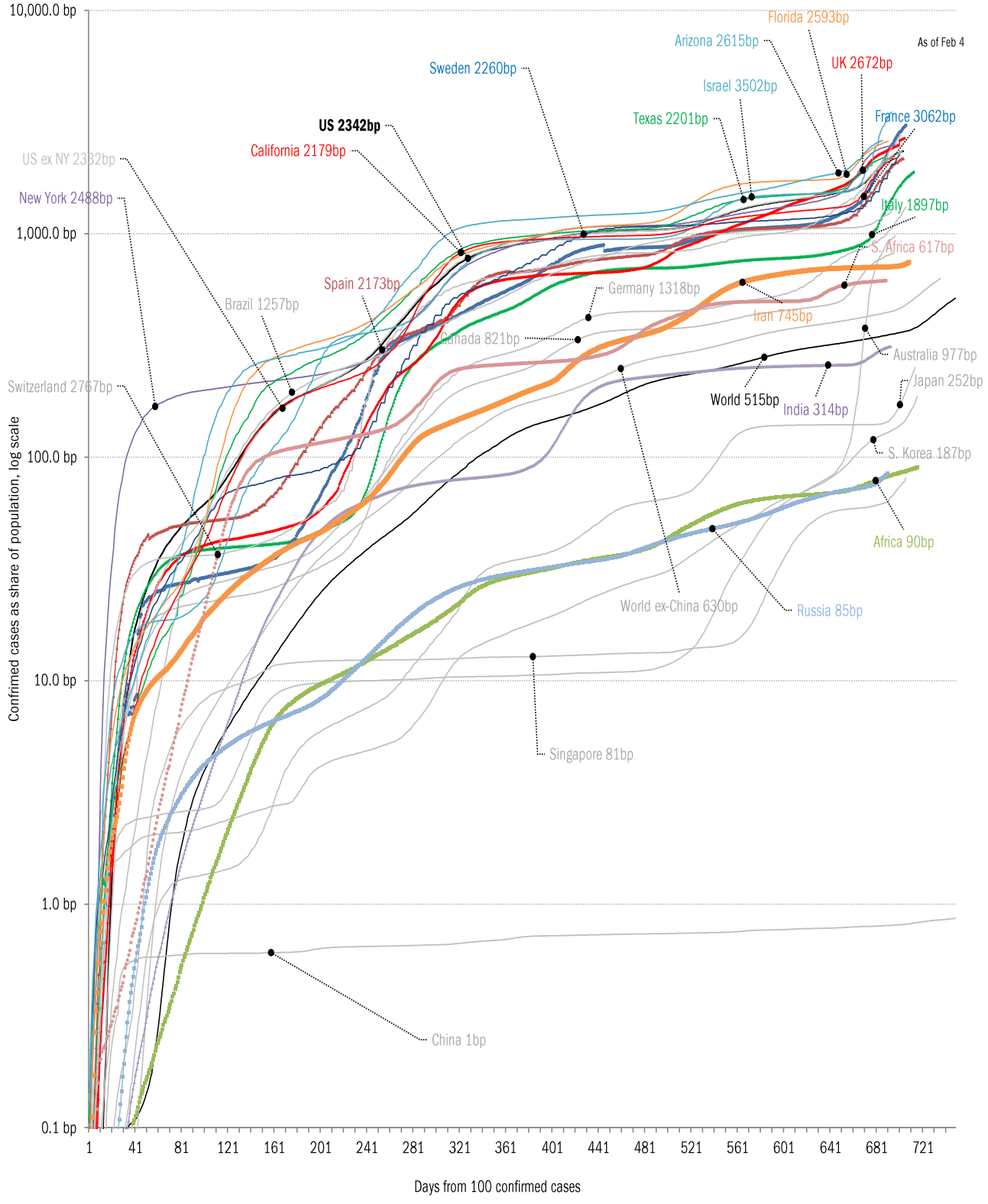
[How a War on 'Misinformation' Led To a Coronavirus Tragedy]
Bret Swanson
RealClear Markets
February 4, 2022

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

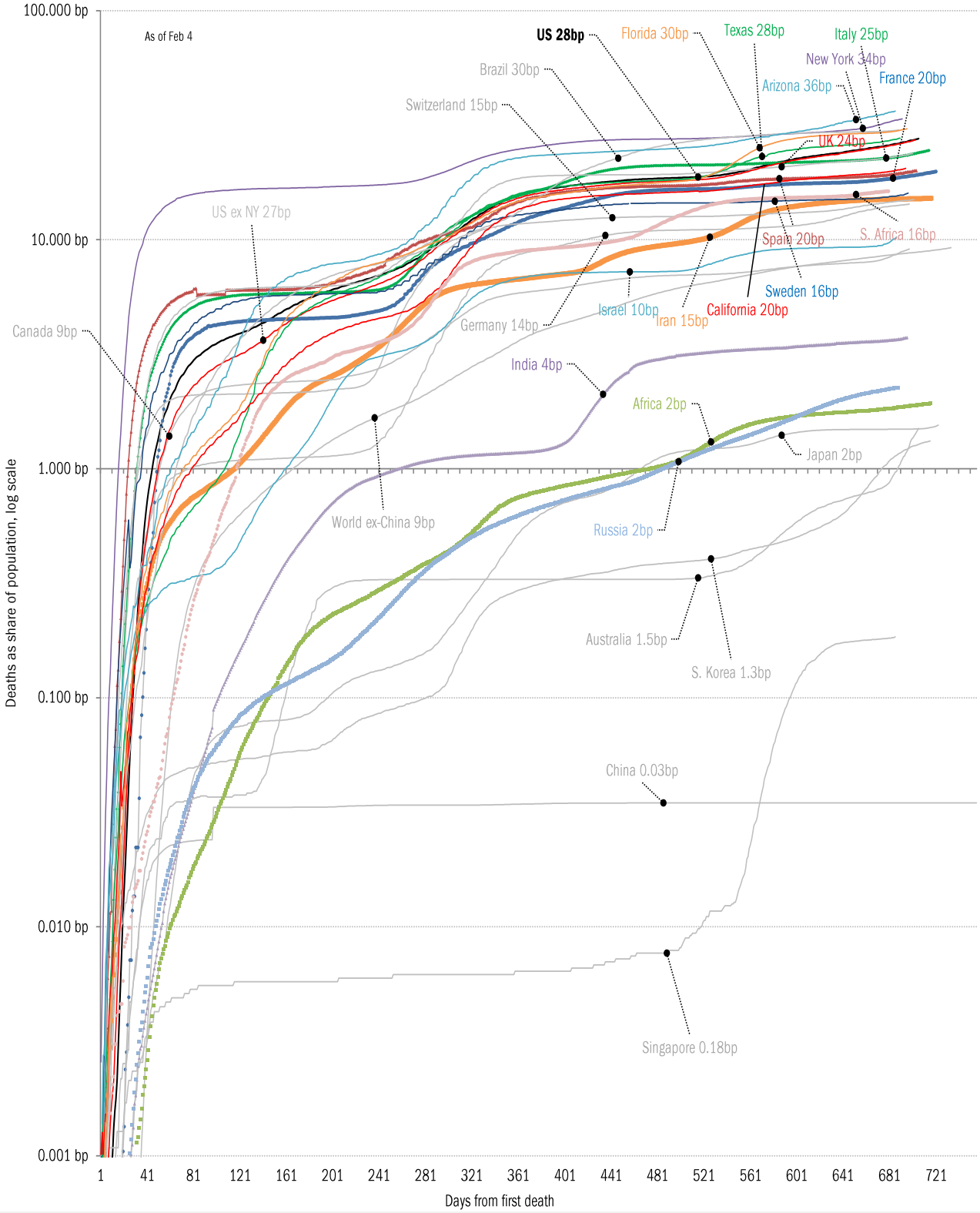
Share of infected population from first day with 100 confirmed cases, log scale



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

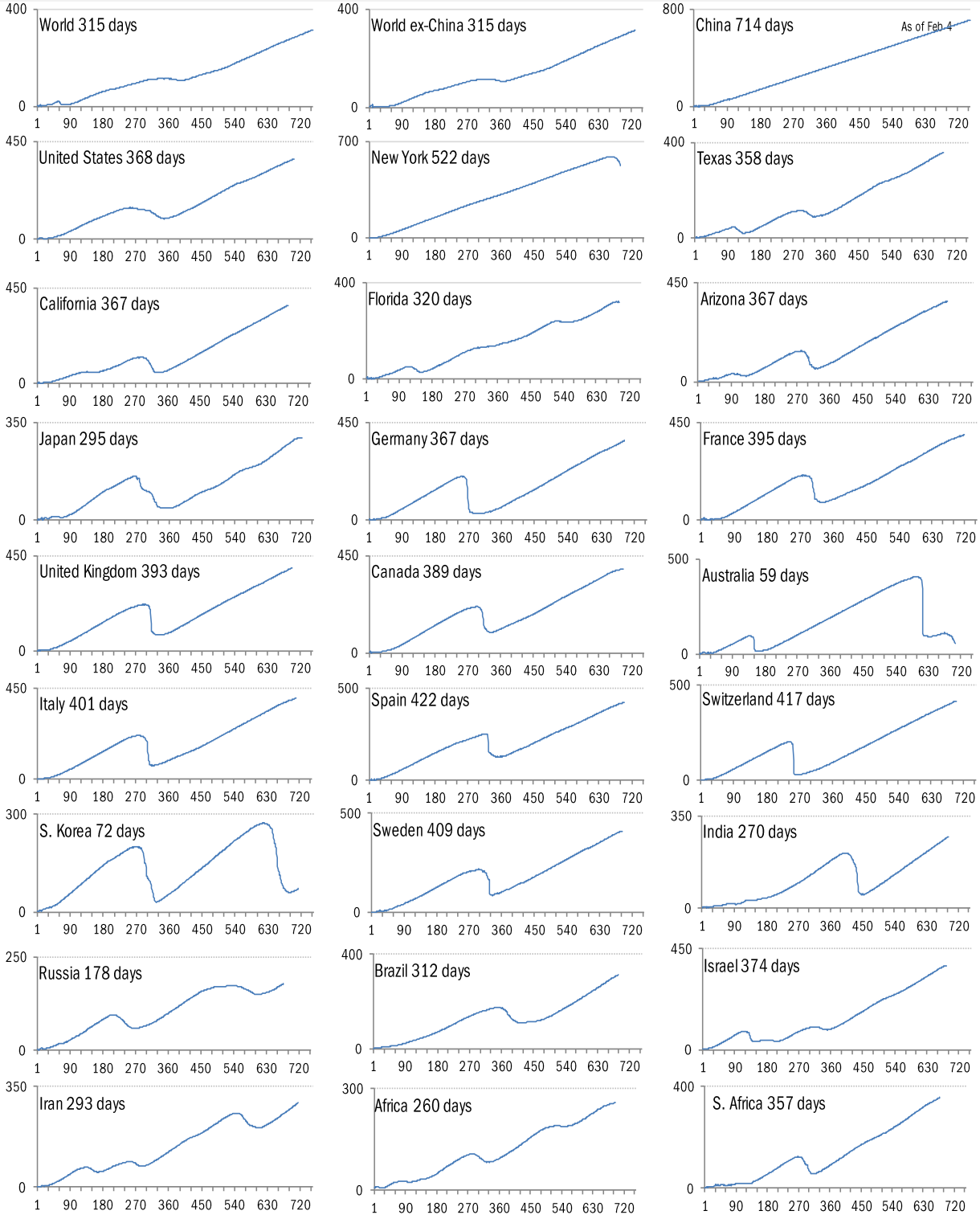


Source: Johns Hopkins, TrendMacro calculations

"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

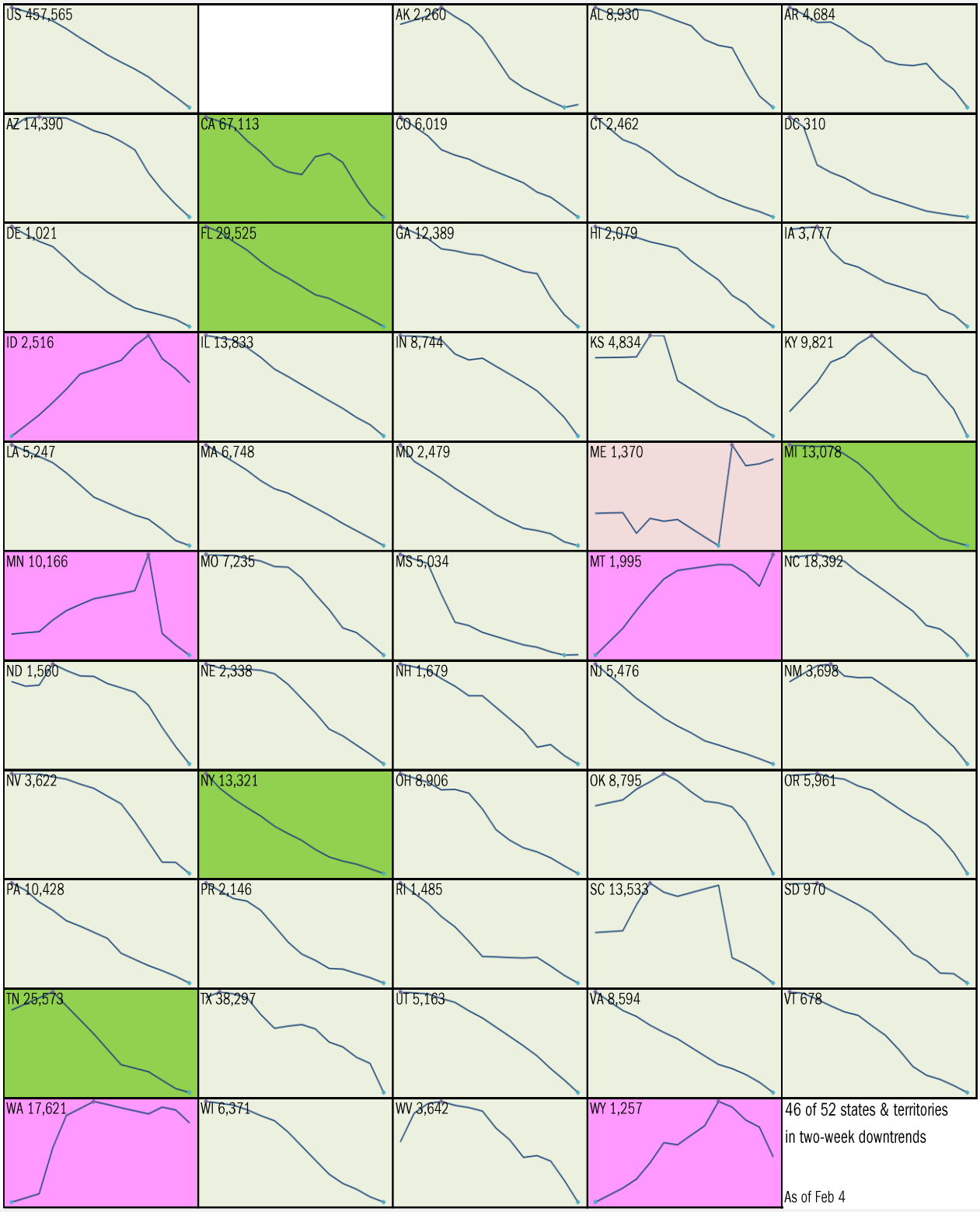


Source: Johns Hopkins, TrendMacro calculations

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

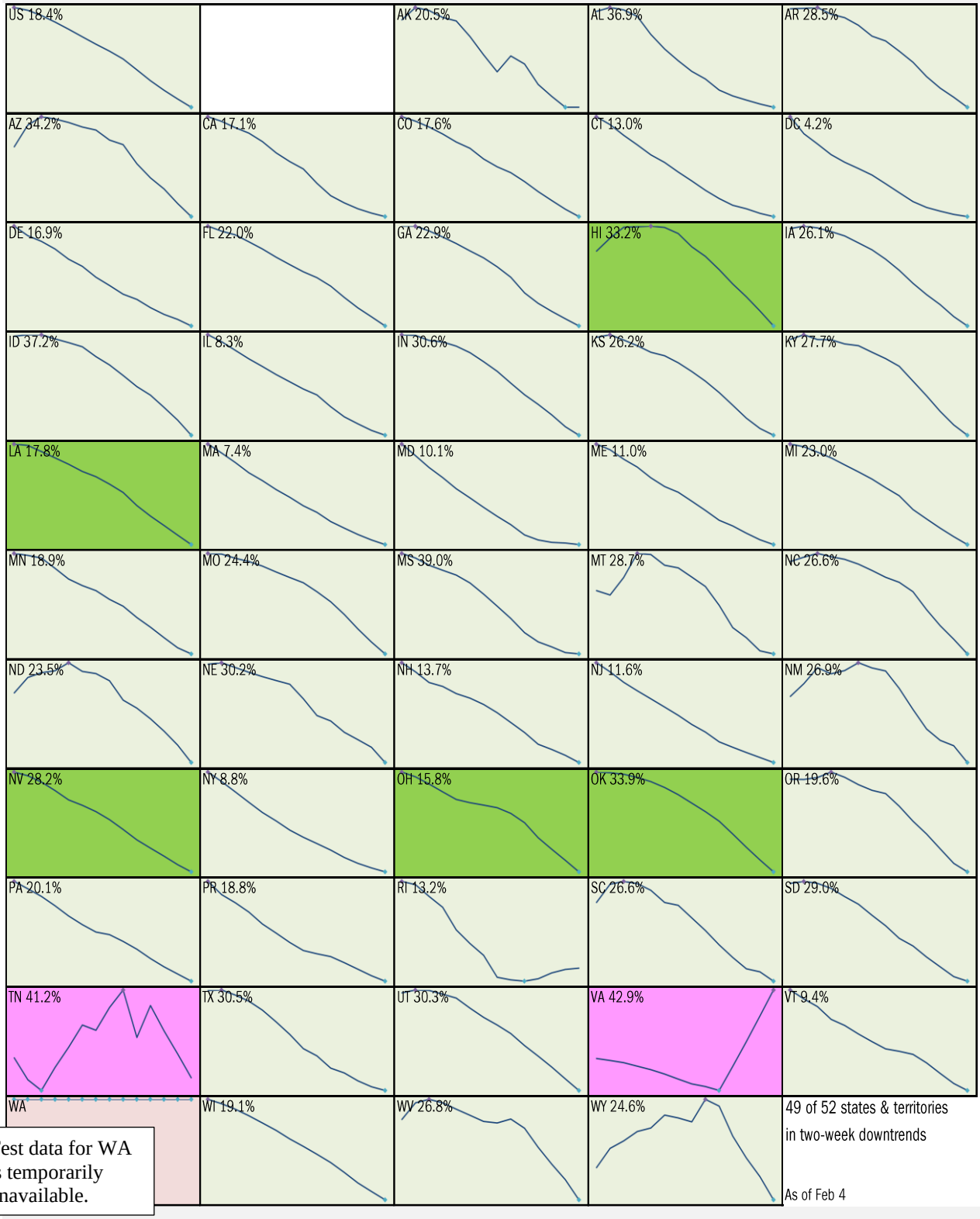


Source: Johns Hopkins, TrendMacro calculations

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

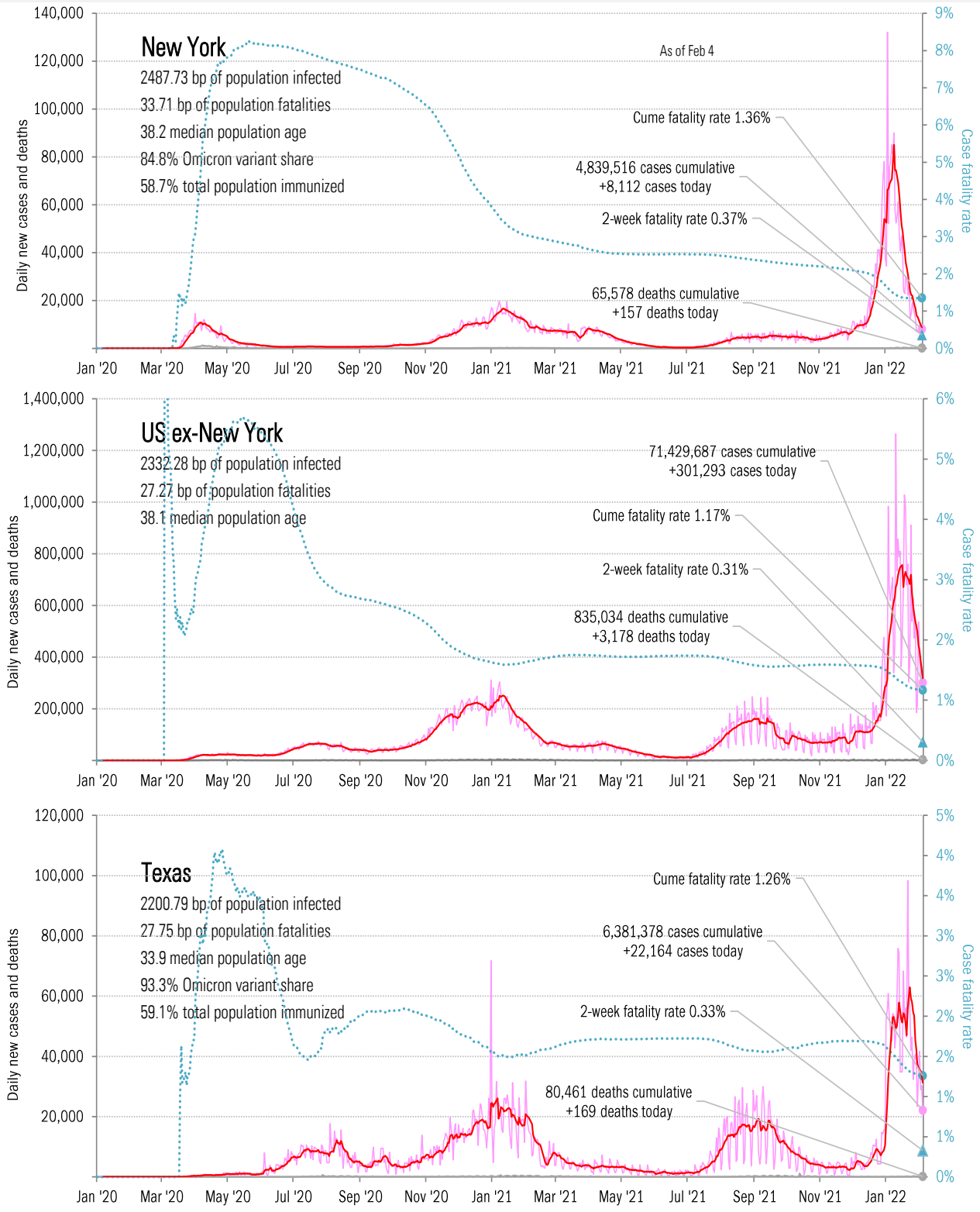


Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

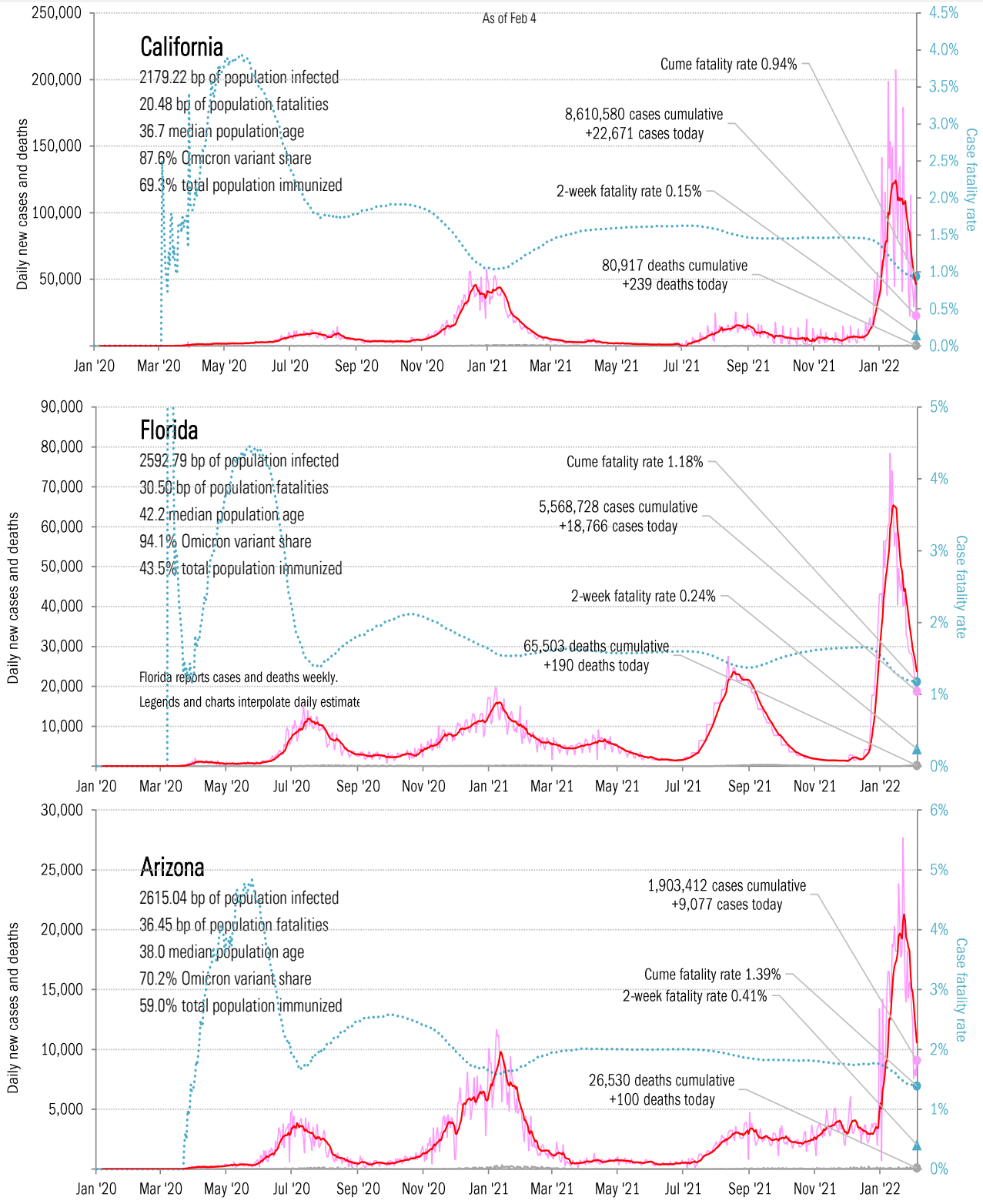
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states (other than Texas)

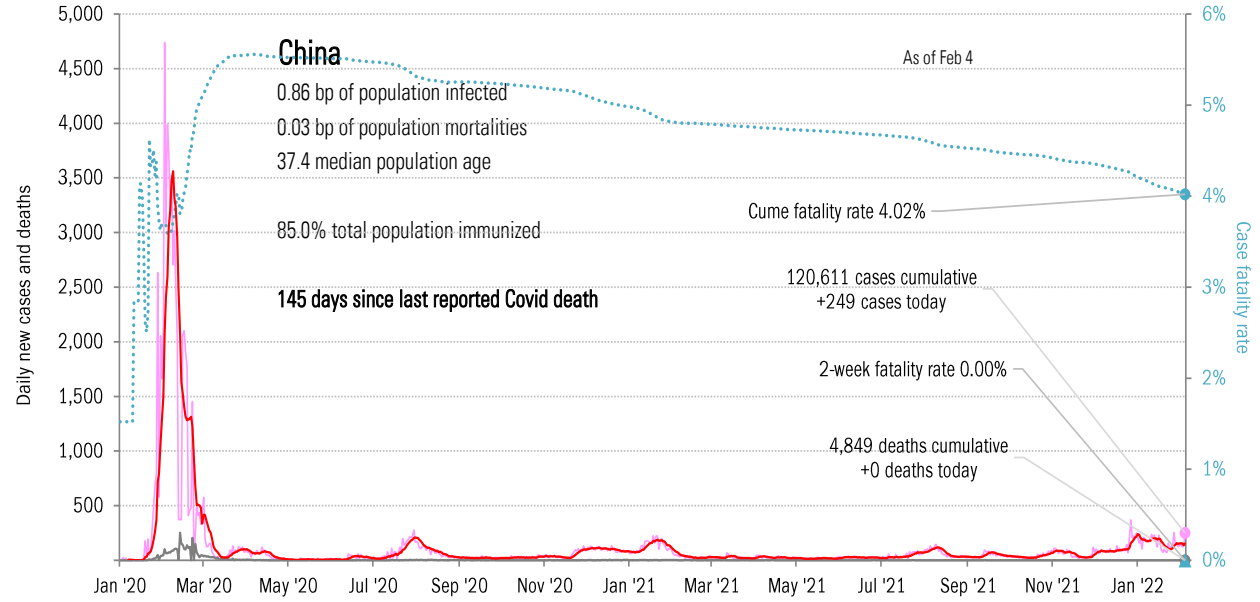
Cases: 7-day average and daily Deaths: Daily

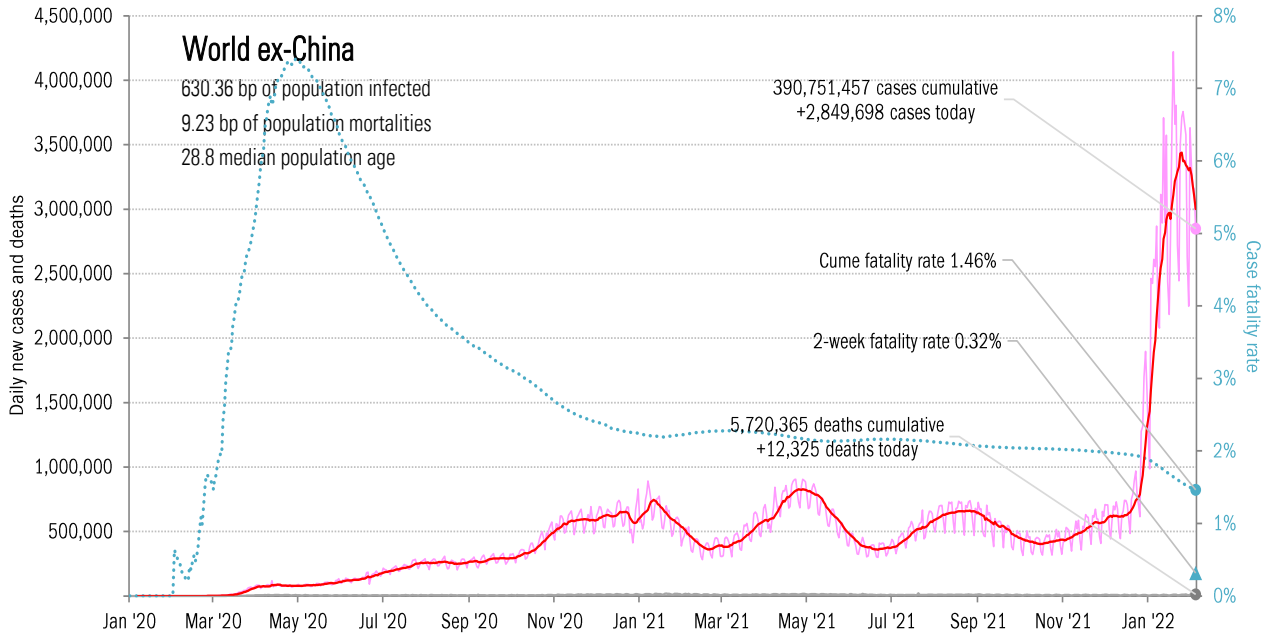


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

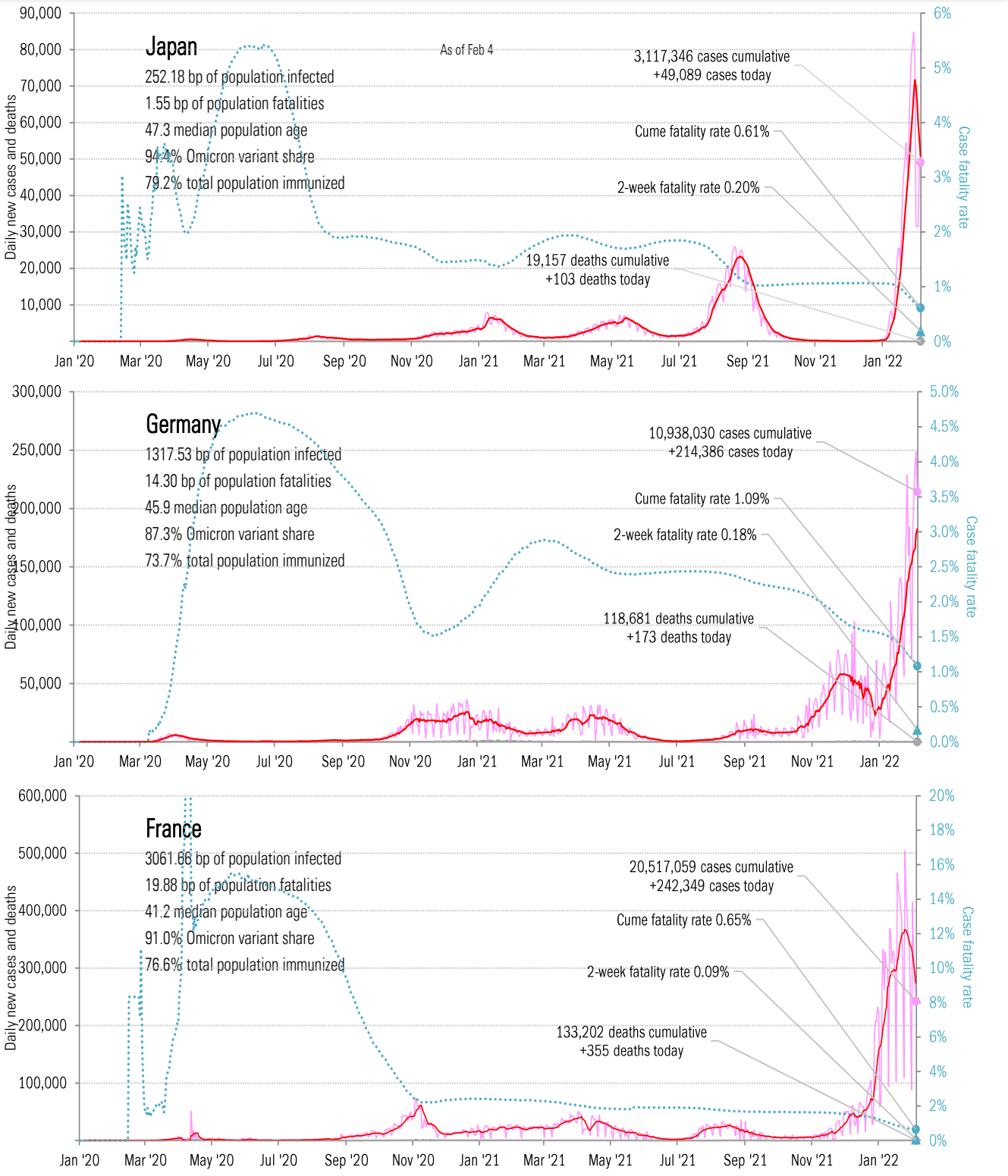




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

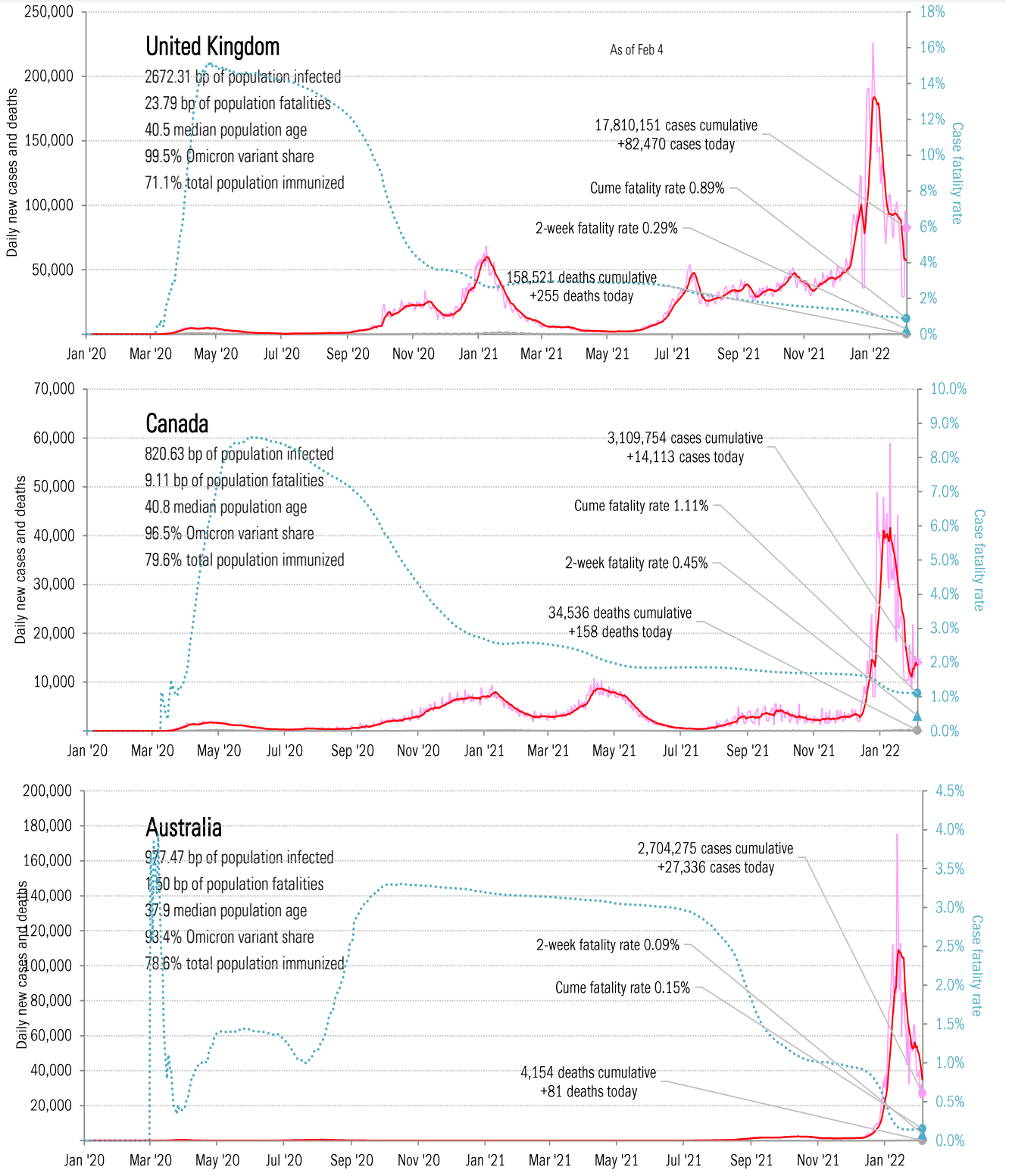
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

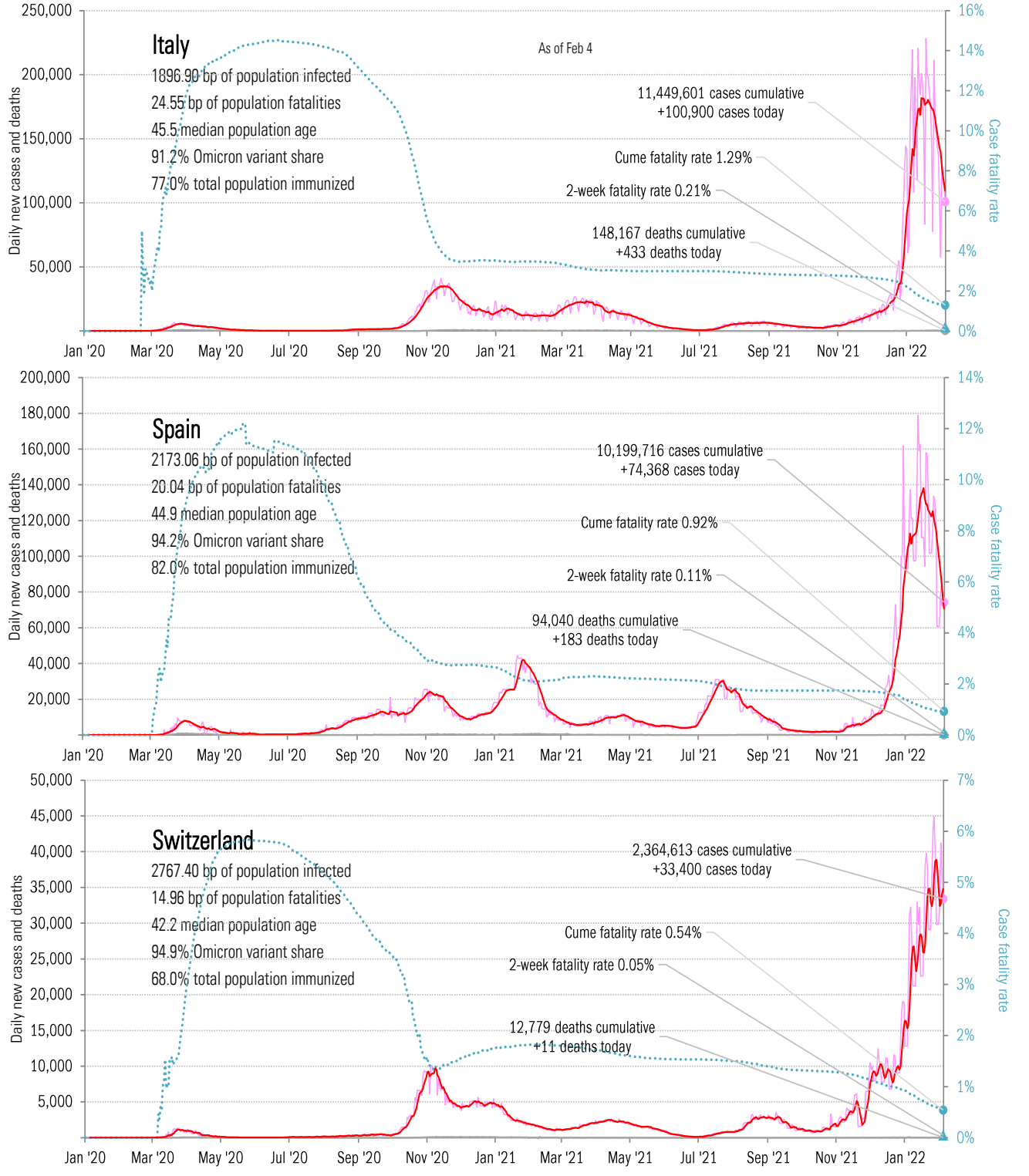
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

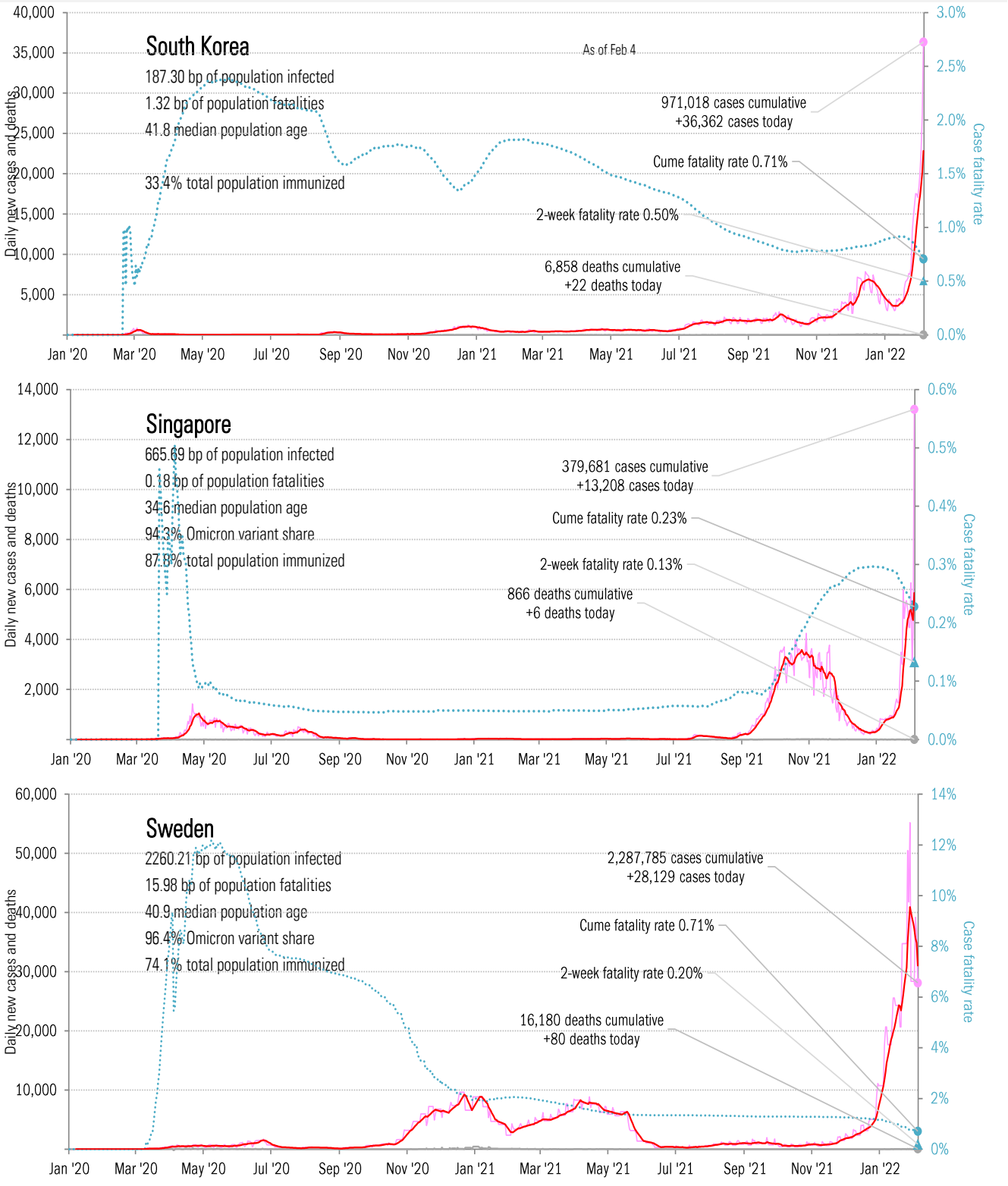
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

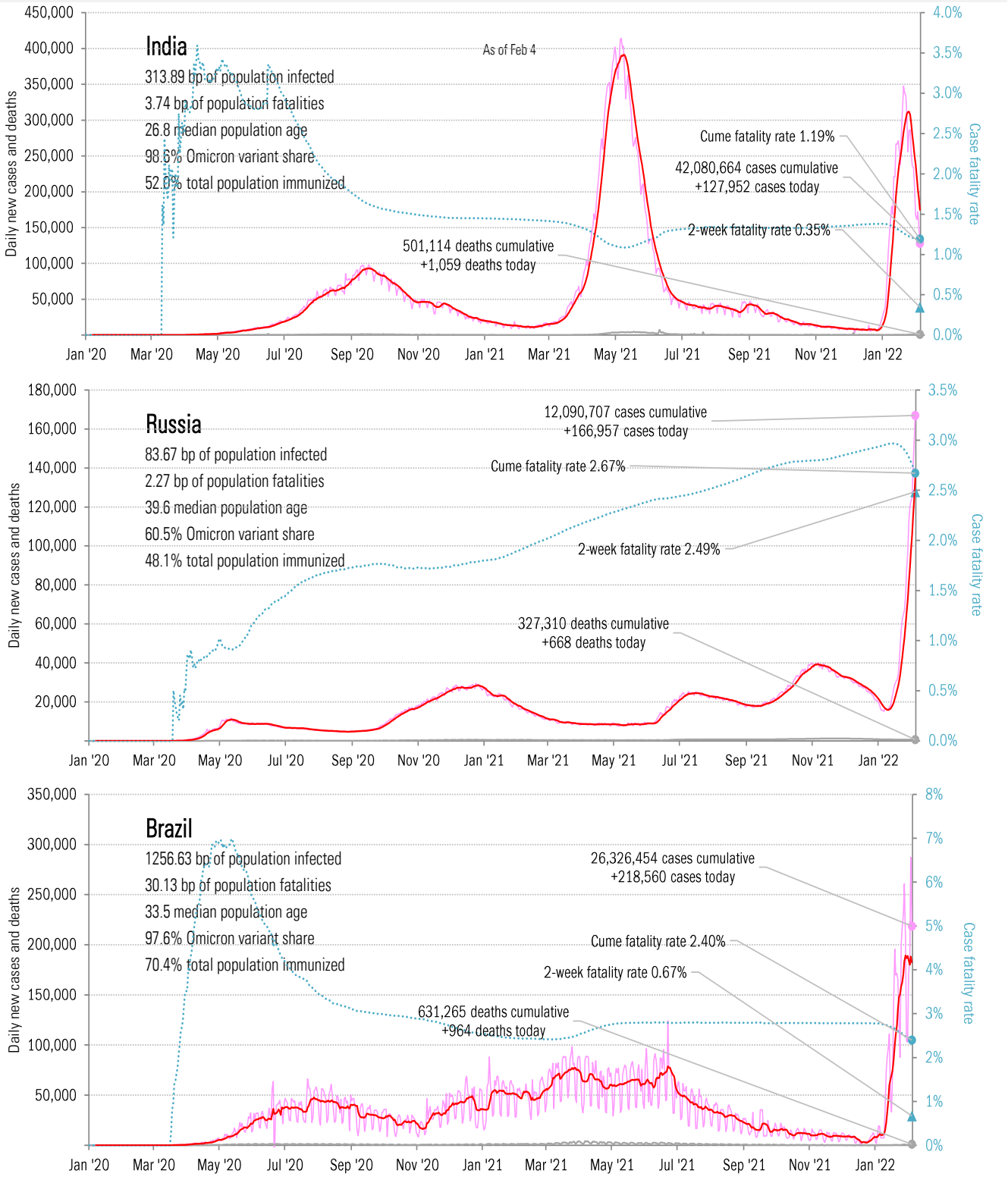
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

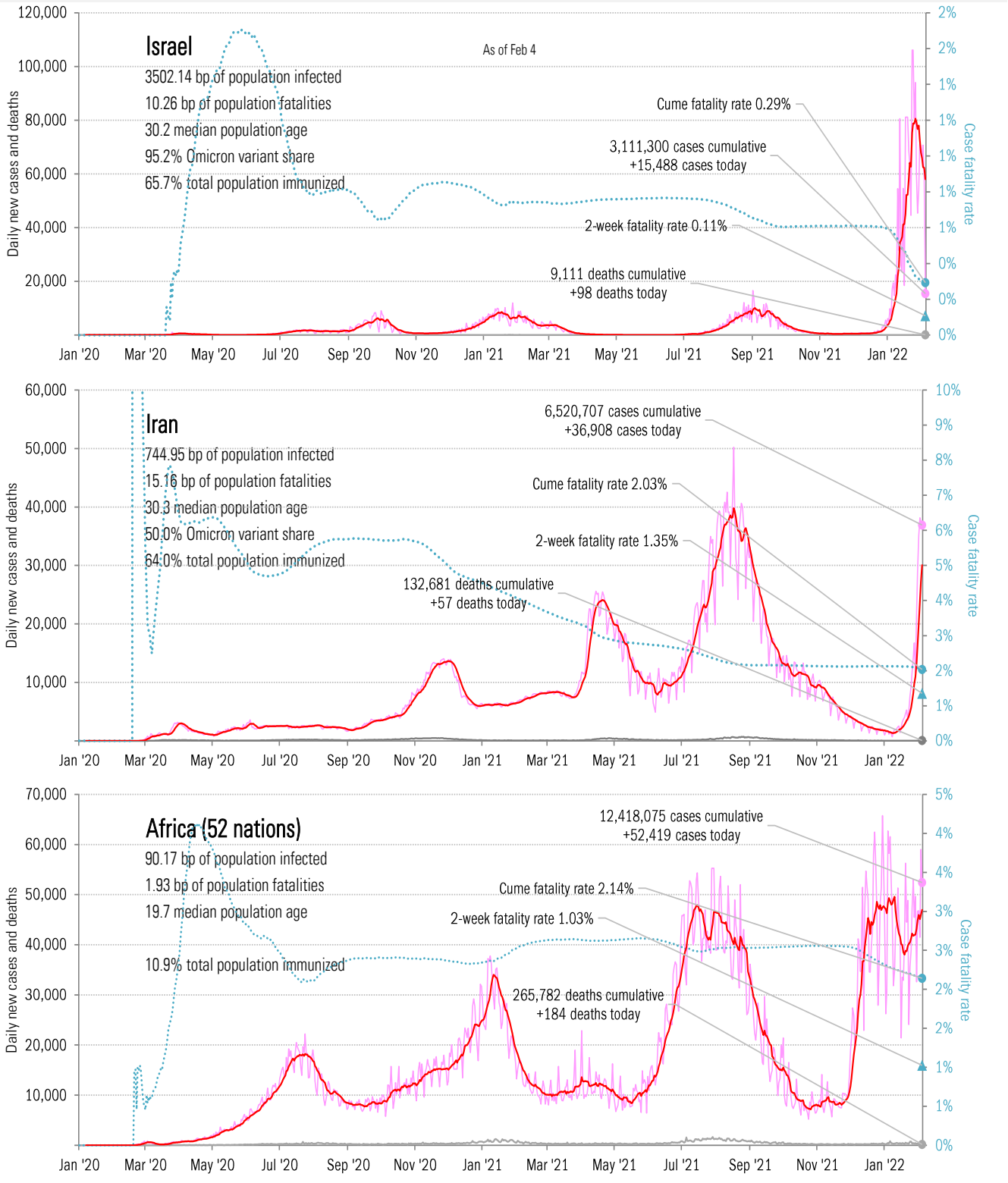
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

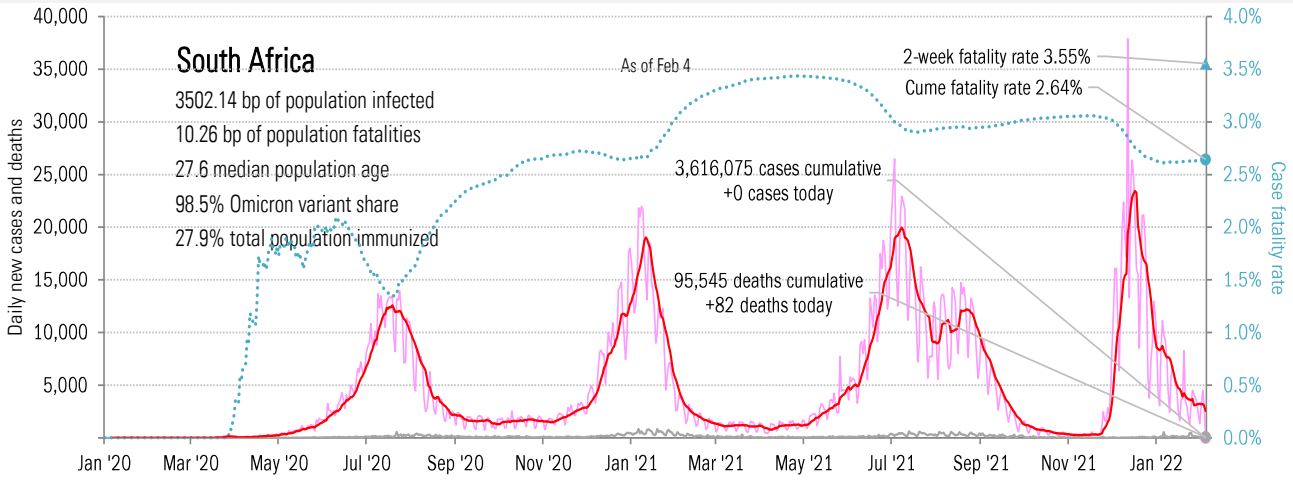
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations