Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

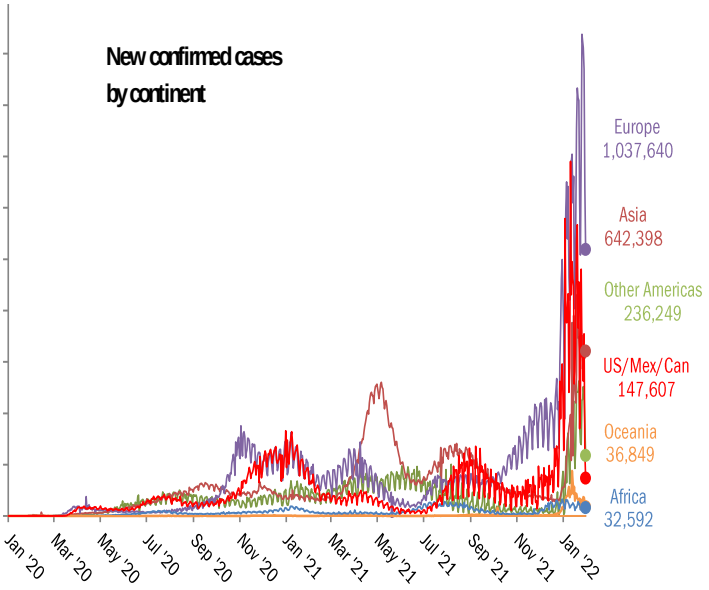
Monday, January 31, 2022

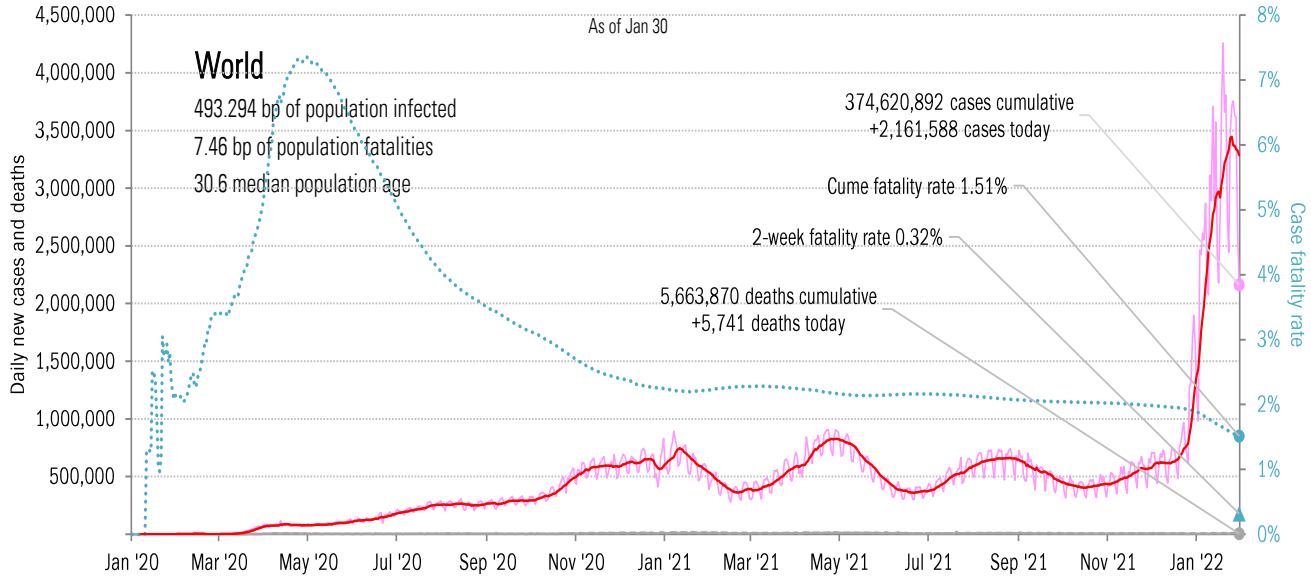
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
France	249,467	India	959
India	209,918	Russia	608
United States	125,140	United States	491
Russia	120,324	Peru	393
Brazil	104,449	Brazil	280
Italy	104,110	Colombia	247
Turkey	88,145	Italy	235
Japan	78,003	Turkey	189
Netherlands	75,373	Argentina	152
Germany	71,185	Mexico	131
	1,226,114		3,685
World	2,161,588	World	5,741
Top ten	57%	Top ten	64%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

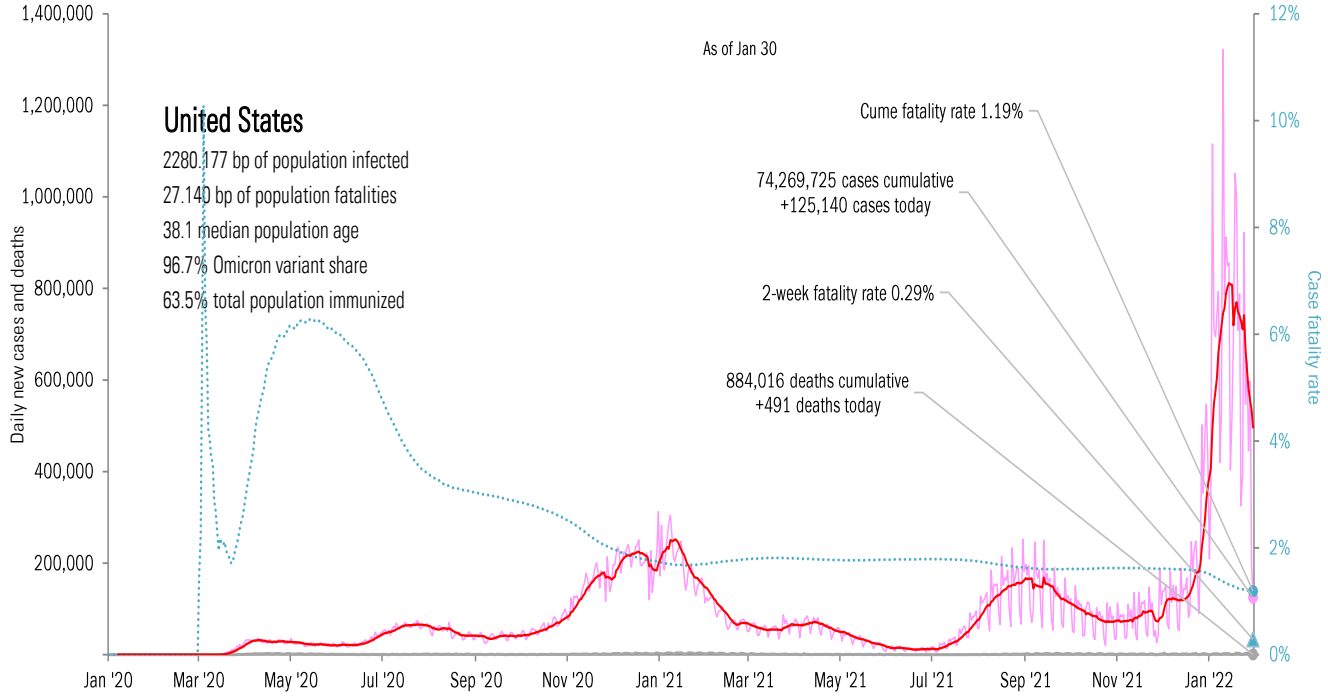
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	28,253	FL	170	KY	233	CA	8,292,735	CA	79,801	TX	456,452	RI	86%	AL	95%
TX	23,370	TX	107	NC	189	TX	6,224,480	TX	79,374	CA	389,895	GA	85%	NM	93%
CA	17,362	TN	69	TX	168	FL	5,458,930	NY	64,778	FL	388,853	MN	85%	OK	93%
AZ	13,473	NY	60	GA	129	NY	4,797,903	FL	64,711	NY	231,892	WV	85%	TX	91%
PA	7,340	CA	37	TN	75	IL	2,897,174	PA	40,563	GA	192,448	MD	85%	RI	90%
NY	7,002	MD	33	OR	69	PA	2,656,587	IL	33,121	OH	180,033	WA	84%	NV	90%
AL	6,490	AZ	23	CO	56	OH	2,576,245	OH	33,071	PA	165,541	MO	84%	GA	89%
OH	5,224	NJ	21	SC	48	NC	2,374,866	GA	32,868	IL	147,900	MA	83%	MS	89%
MO	3,157	PR	17	WA	45	GA	2,346,518	MI	32,197	MI	132,285	PA	83%	KY	88%
WV	2,855	PA	15	AL	43	MI	2,235,180	NJ	31,412	KY	131,531	NV	82%	IN	87%
	114,526		552		1,055		39,860,618		491,896		2,416,830				
All states	125,140		491		262	All states	74,269,725		884,016		4,368,543	All states	70%		67%
Top ten	92%		112%		403%	Top ten	54%		56%		55%	Median	78%		80%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-15,188	AZ	-159	OK	-92	AR	+10 bp
OK	-10,539	NY	-142	AZ	-88	CA	+10 bp
IA	-8,922	PA	-139	NM	-57	CO	+10 bp
MO	-5,556	TX	-93	NV	-47	CT	+10 bp
NY	-5,162	NJ	-50	NH	-42	DE	+10 bp



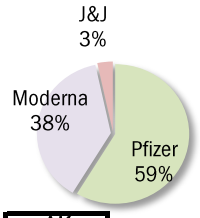
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	552,442,424				+0.756 million
Boosters	88,947,410				+0.382 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	257,395,376	77%	217,756,147	65%	+0.166 million
Age 12 to 17	16,940,677	67%	14,308,966	57%	+0.018 million
Age 18 to 64	173,746,553	85%	147,152,852	72%	+0.075 million
Age 65 and over	57,912,004	100%	50,100,985	91%	+0.009 million

Immunity	Full	Partial
US	63.5%	75.3%
UK	70.9%	76.7%
France	76.1%	79.7%
Spain	81.9%	87.5%
Germany	73.3%	75.1%
Italy	76.3%	83.1%
Australia	78.3%	84.0%
Israel	65.5%	72.0%
Canada	79.1%	84.9%
Japan	79.1%	80.5%
Africa	10.8%	15.9%
India	50.6%	67.5%
Brazil	70.0%	79.4%
China	85.0%	87.7%

Global data differs due to sources, timing



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

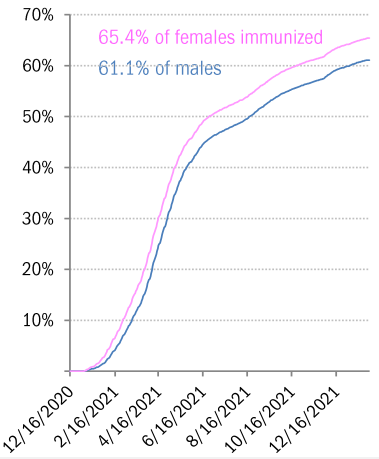
"Immunity" = two doses

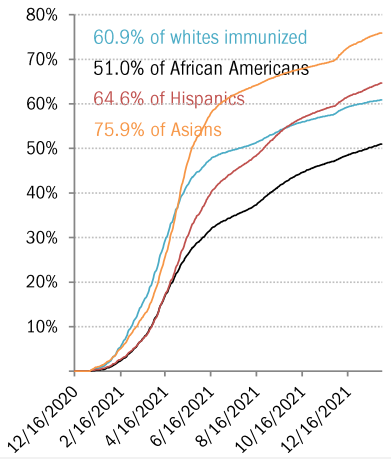
Best
Middle
Worst

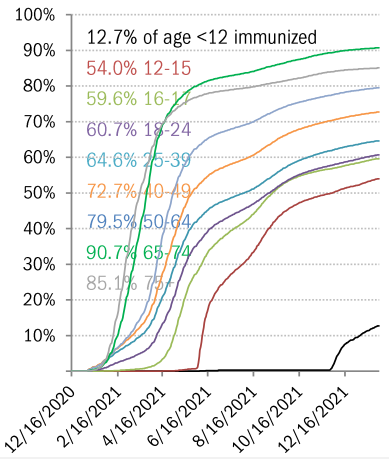
As of Jan 30

AK					WI					ME
67.8%					70.3%					88.5%
58.3%					63.6%					77.5%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
78.6%	59.5%	63.8%	64.0%	73.5%	75.3%	65.2%		87.6%	92.1%	95.0%
69.9%	52.2%	55.2%	54.0%	67.1%	66.1%	58.2%		74.1%	79.4%	68.7%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
76.1%	72.9%	57.2%	73.8%	66.6%	59.9%	62.3%	82.0%	87.4%	94.8%	
67.8%	58.4%	49.8%	58.8%	60.3%	53.2%	56.8%	65.7%	72.6%	76.4%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
80.4%	69.7%	77.4%	68.6%	64.6%	64.6%	63.5%	83.1%	83.6%	92.5%	94.5%
69.0%	60.6%	68.2%	61.5%	54.3%	55.7%	56.1%	70.6%	72.6%	76.6%	78.9%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	70.1%	84.5%	72.5%	65.0%	60.6%	80.8%	65.7%	93.2%	80.3%	
	58.8%	68.3%	59.1%	52.7%	52.7%	58.4%	54.9%	70.0%	66.2%	
			OK	LA	MS	AL	GA			
			69.2%	59.5%	58.0%	61.2%	63.6%			
			55.1%	51.8%	50.0%	49.4%	52.8%			
HI			TX					FL		PR
85.0%			69.7%					77.2%		93.1%
75.9%			58.8%					65.1%		79.4%

The demographics of US vaccination



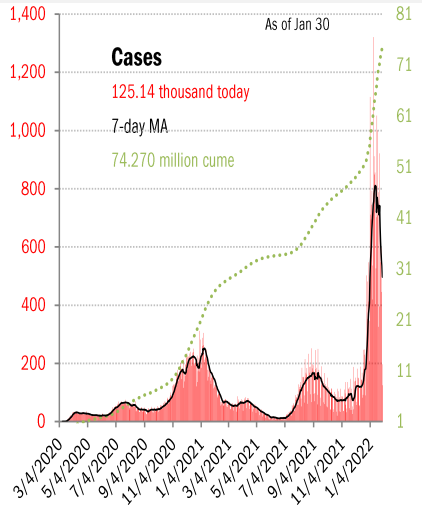


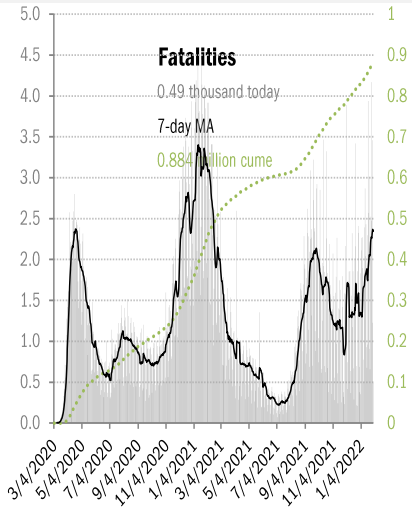


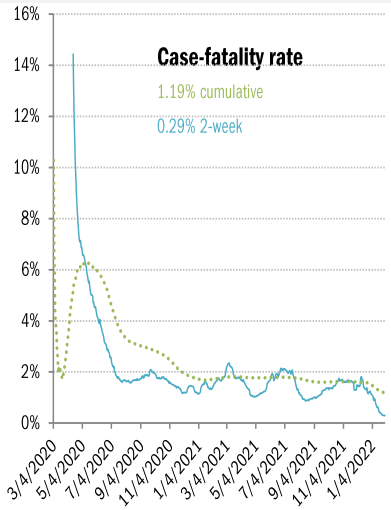
Source: CDC, CDC, Our World in Data, TrendMacro calculations

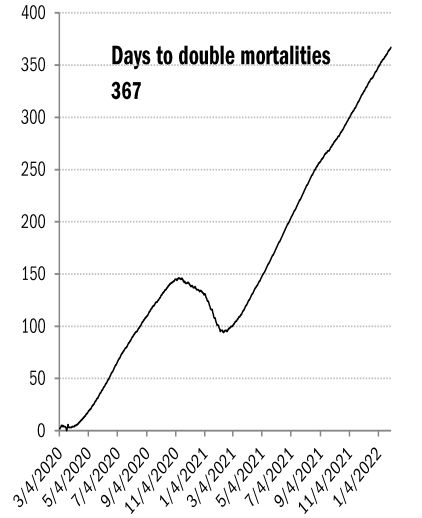
US deep-dive

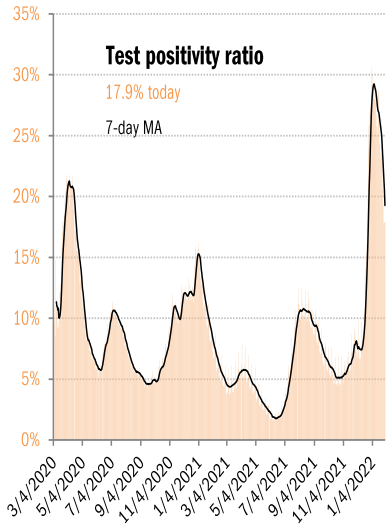
National and state-by-state data do not line up because of different sources

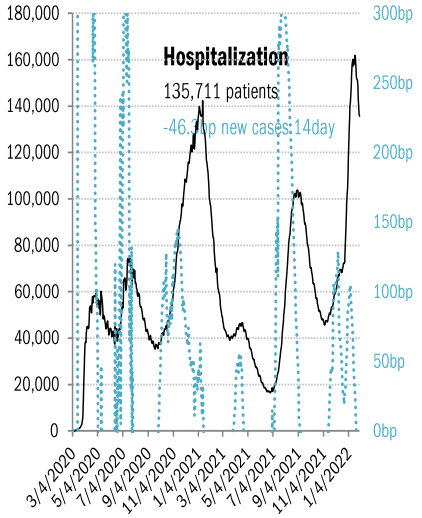


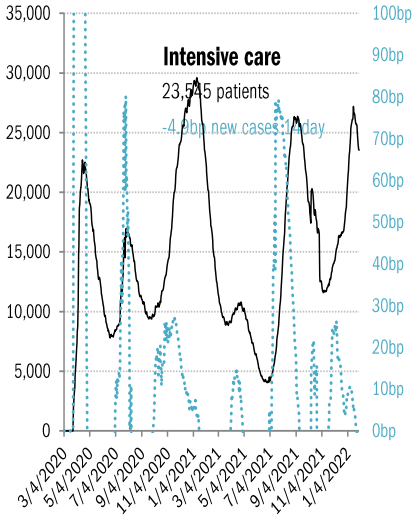


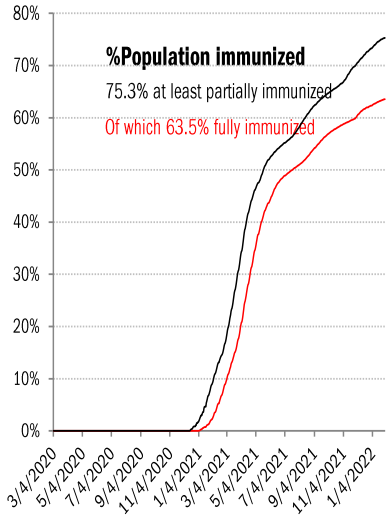










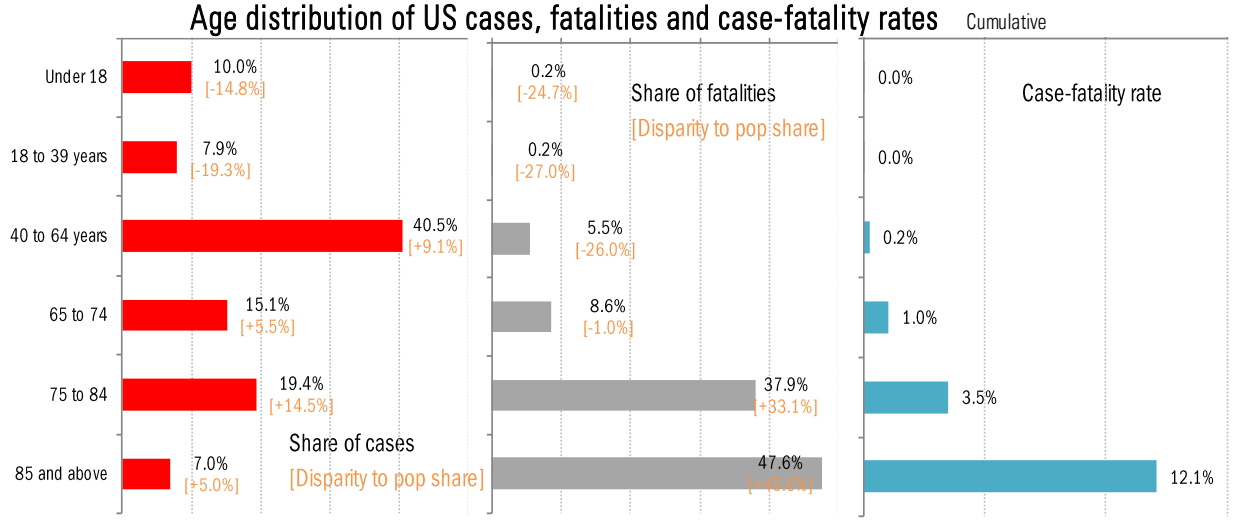


Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

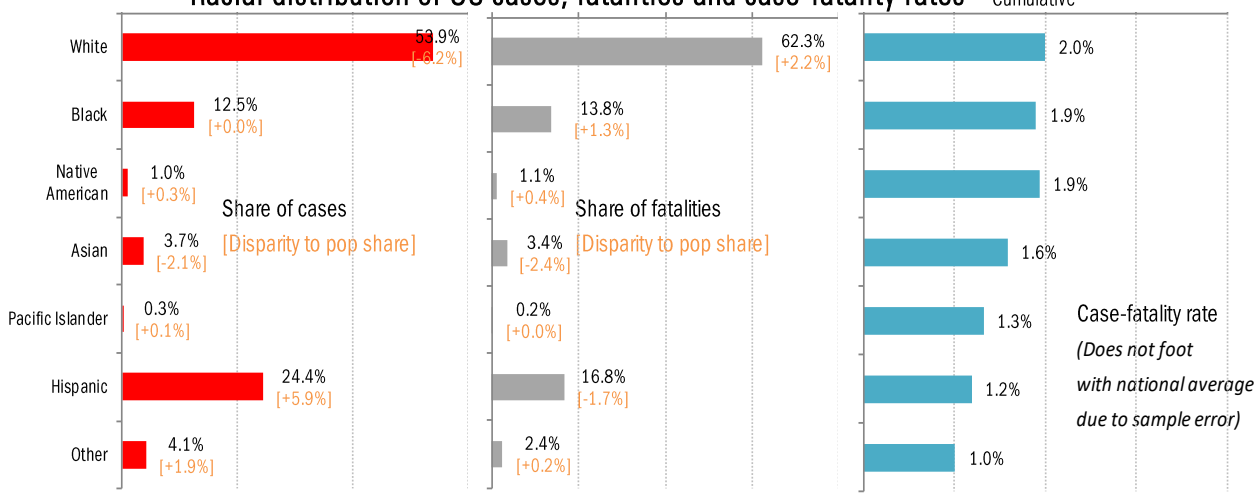
US deep-dive on the demographics of age, race and health

Updates weekly on Sundays

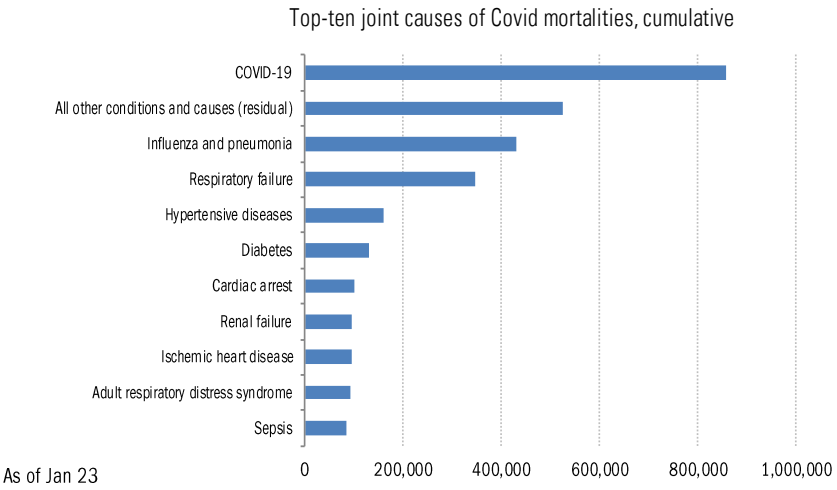
Age distribution of US cases, fatalities and case-fatality rates



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

How Do You Respond When an Anti-Vaxxer Dies of Covid?
James Martin
New York Times
January 30, 2022

Robert Califf for the FDA
Wall Street Journal
January 30, 2022

Spotify and Joe Rogan Respond to Complaints About Covid Misinformation
Ben Sisario
New York Times
January 30, 2022

When Omicron Isn't So Mild
Reed Abelson and Christina Jewett
New York Times
January 30, 2022

Living by the Code: In China, Covid-Era Controls May Outlast the Virus
Chris Buckley, Vivian Wang and Keith Bradsher
New York Times
January 30, 2022

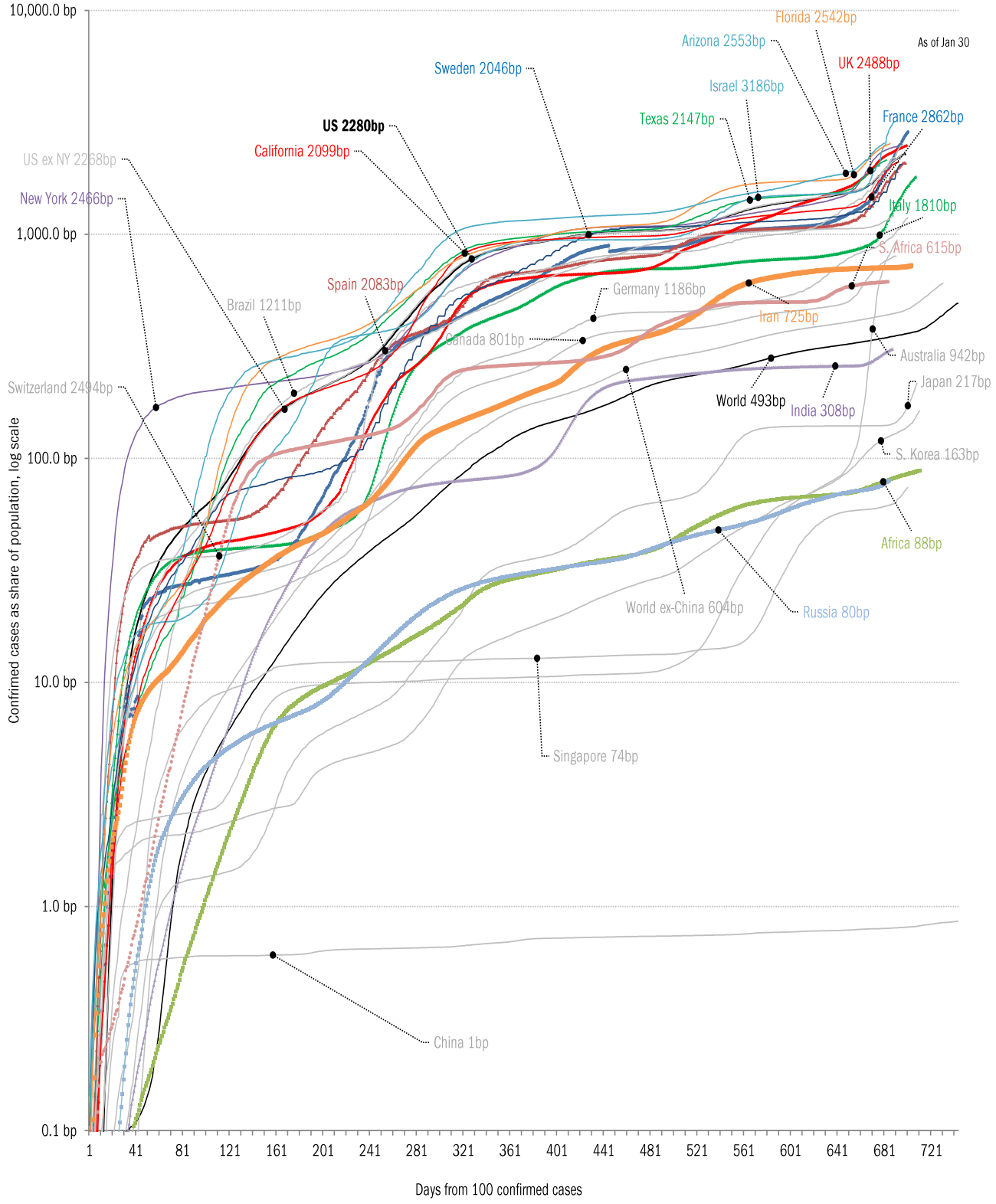
Walter Kirn: The Emerging Dystopia, a Combination of Orwellian Tyranny and Huxleian Self-Indulgence
Jan Jekielek
American Thought Leaders
January 22, 2022

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

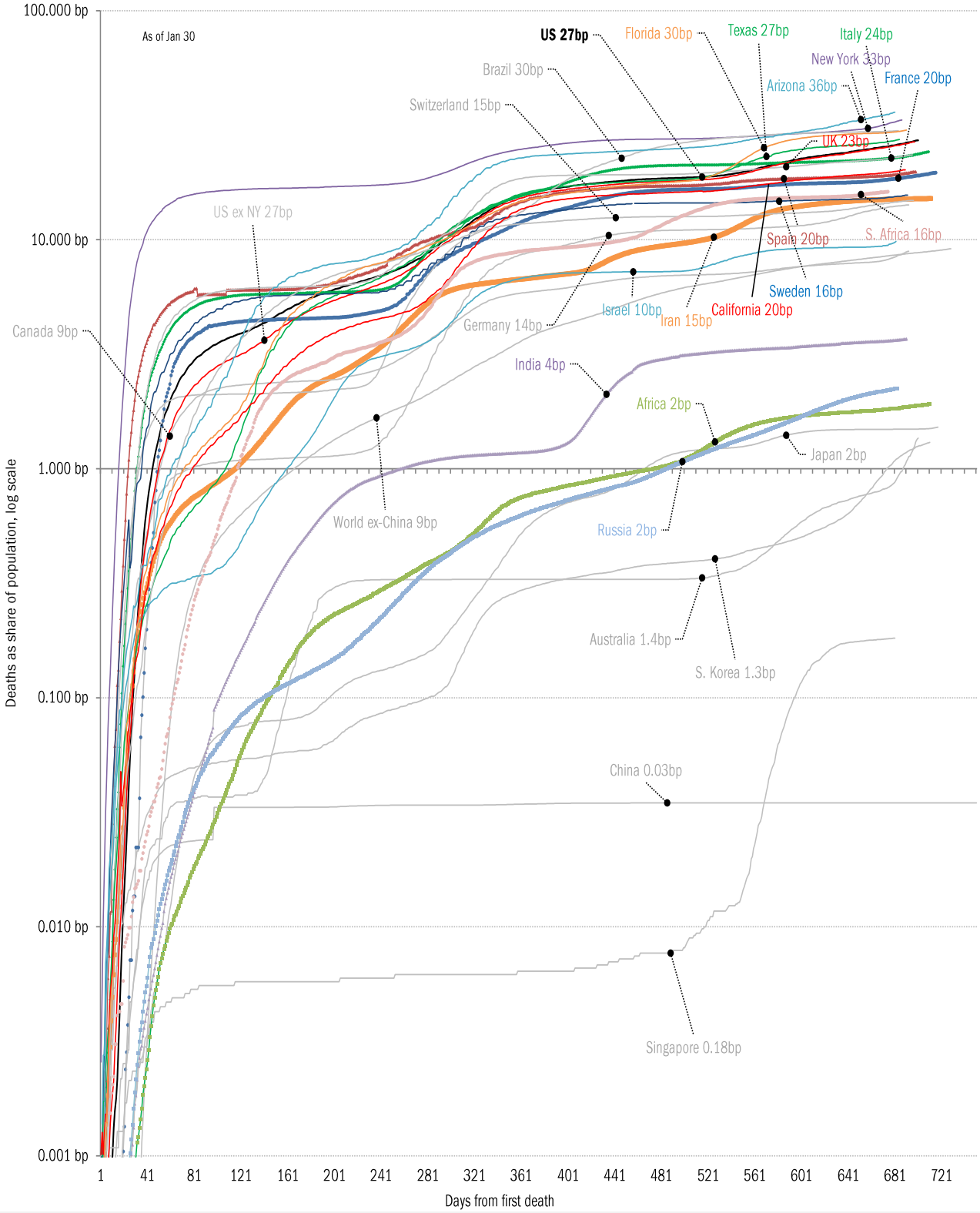
Share of infected population from first day with 100 confirmed cases, log scale



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

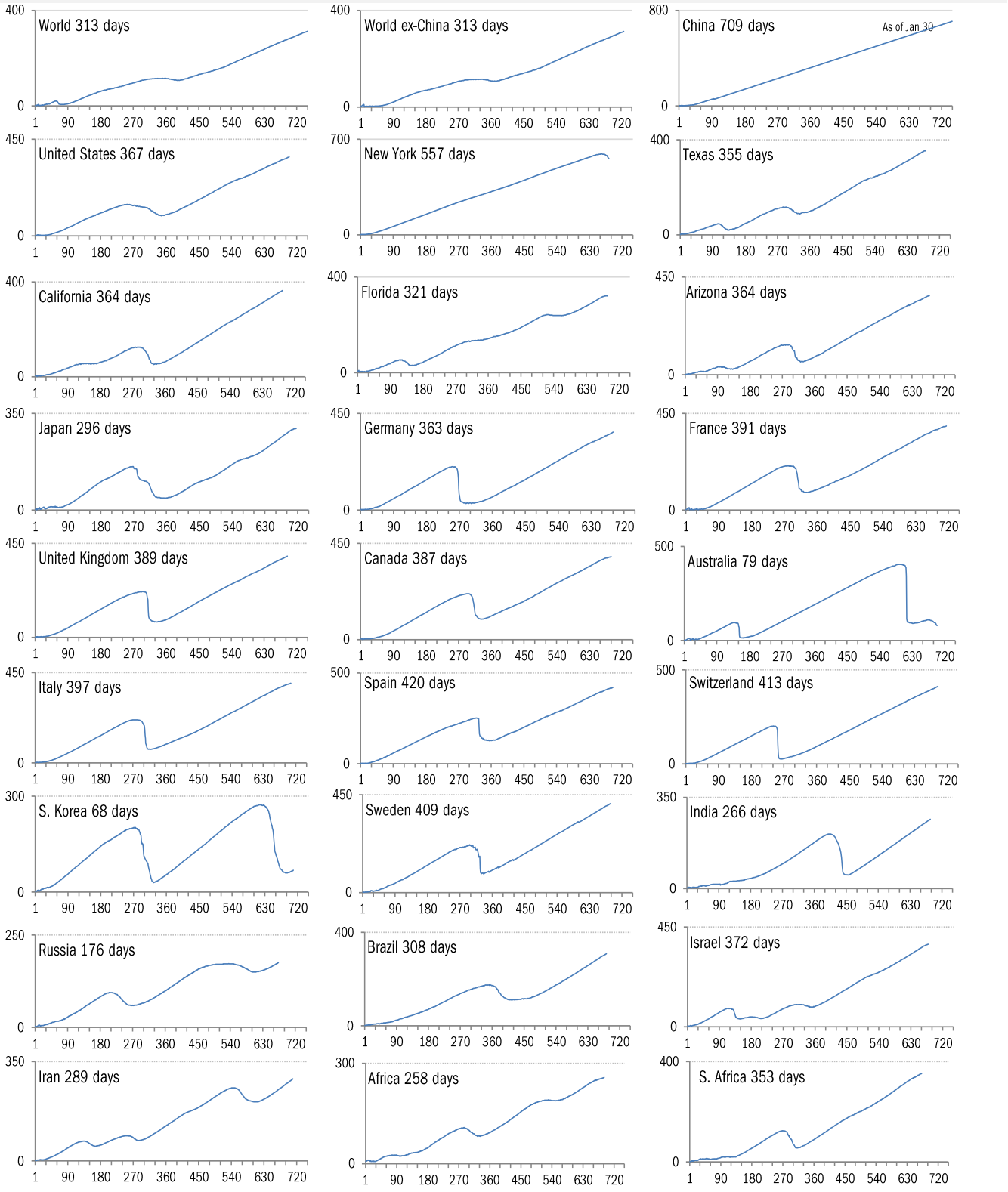


Source: Johns Hopkins, TrendMacro calculations

"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

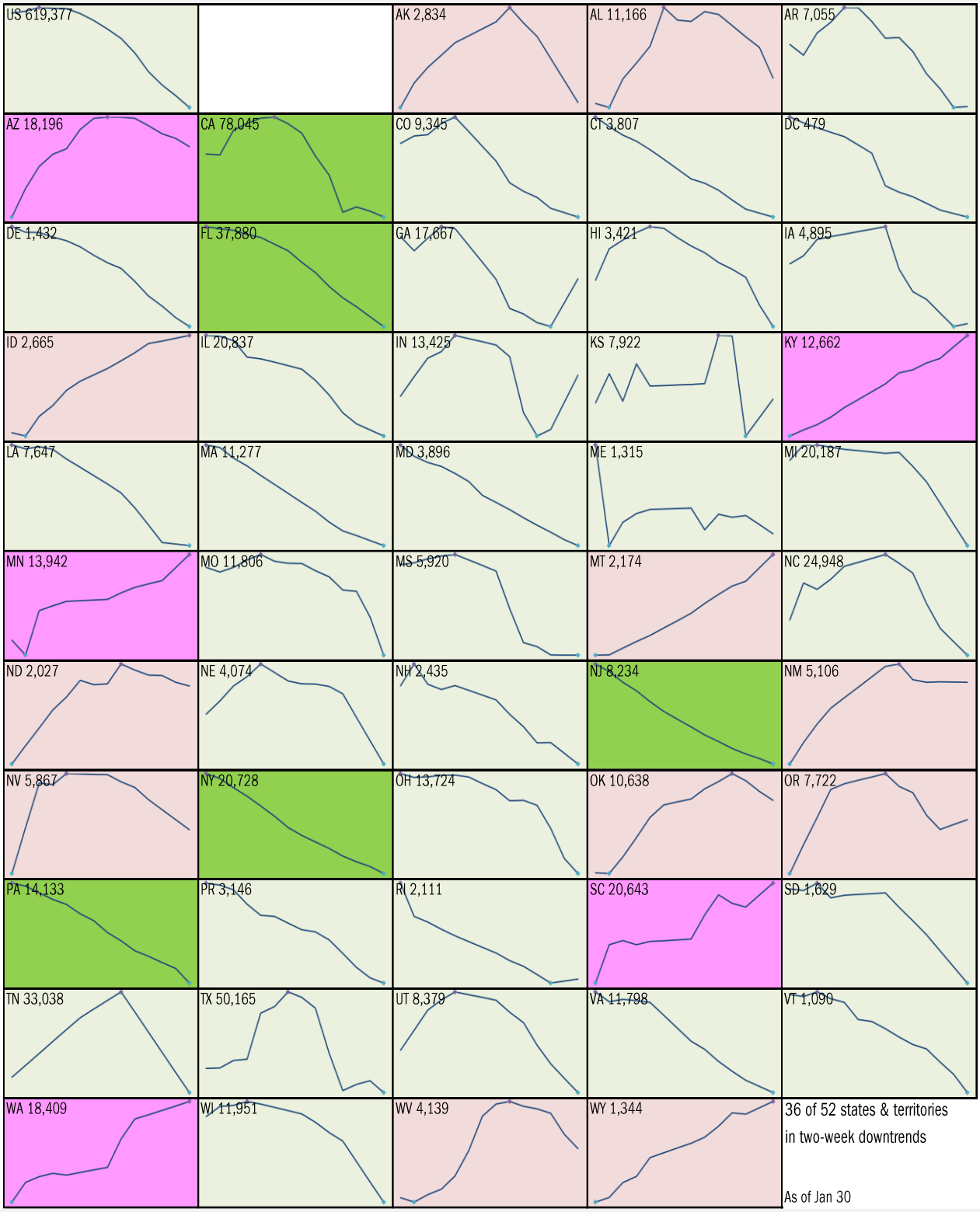


Source: Johns Hopkins, TrendMacro calculations

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

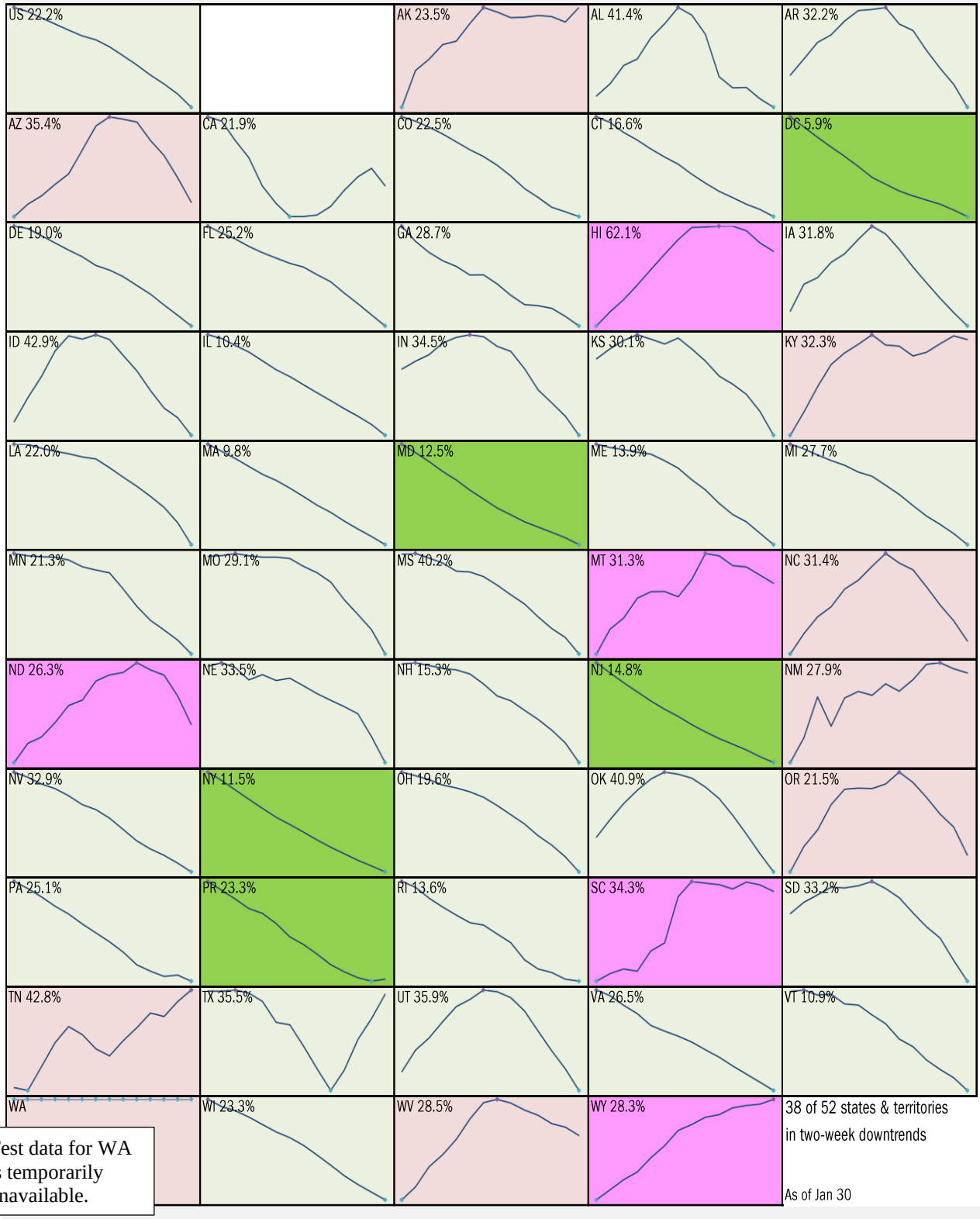


Source: Johns Hopkins, TrendMacro calculations

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

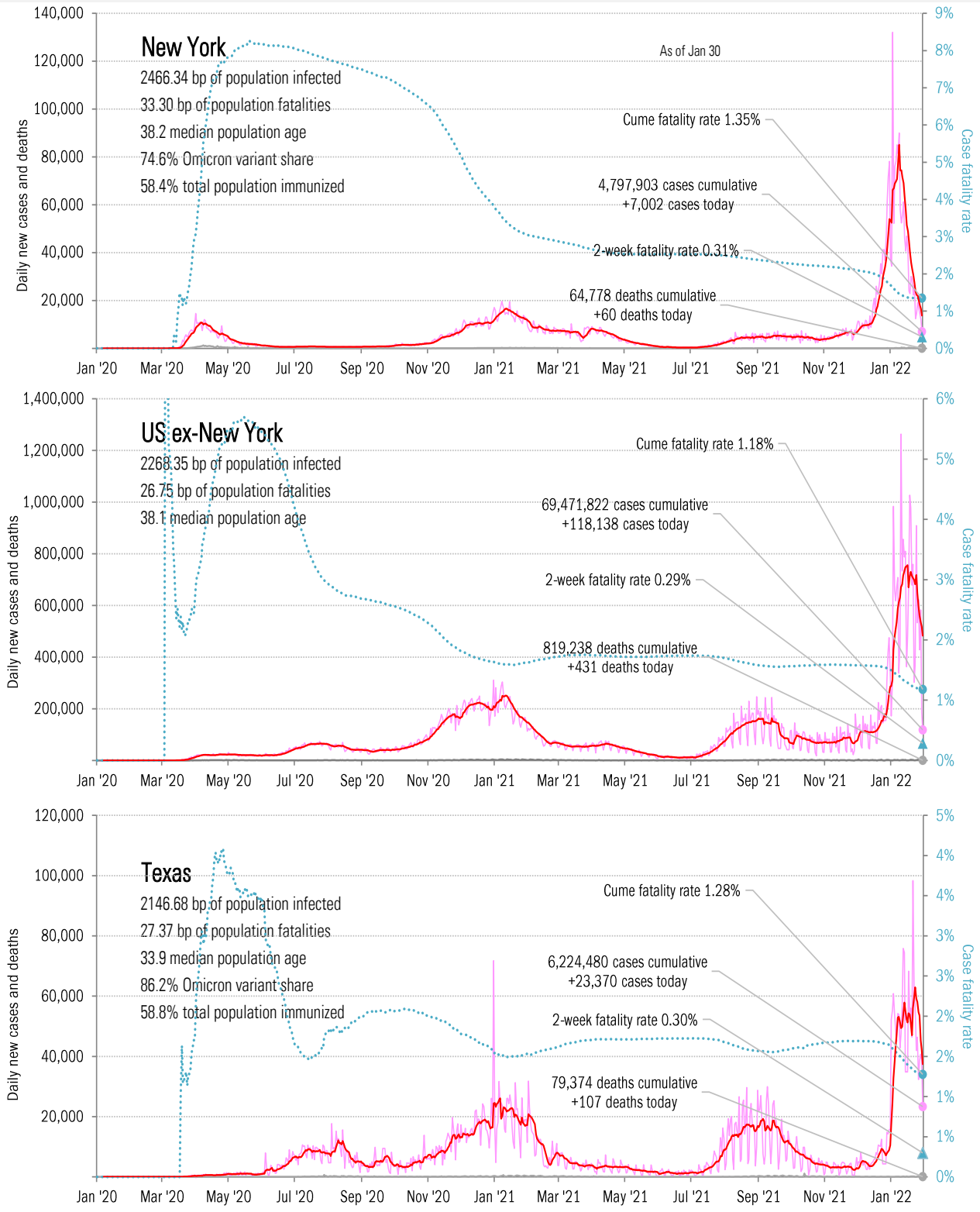


Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

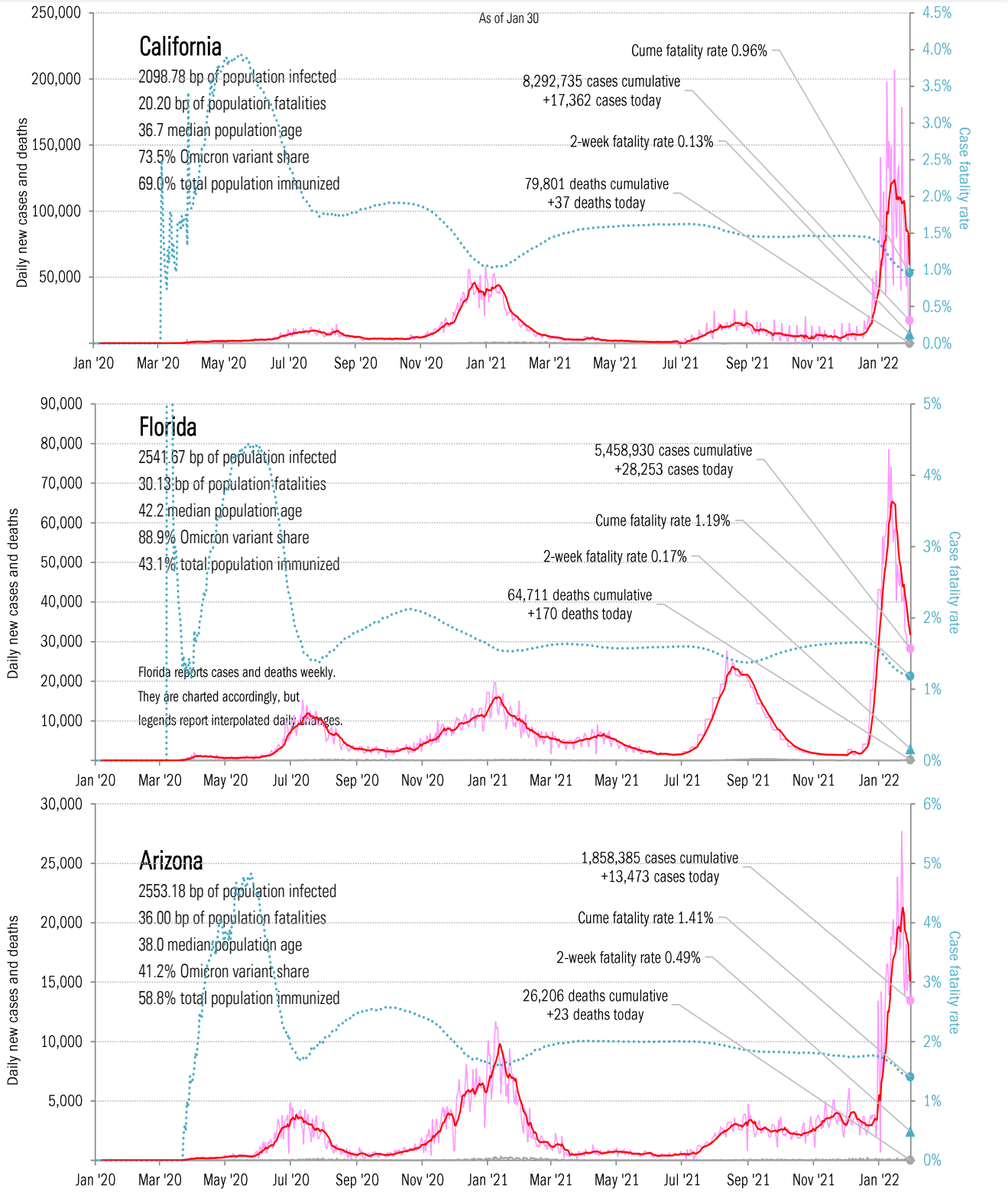
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

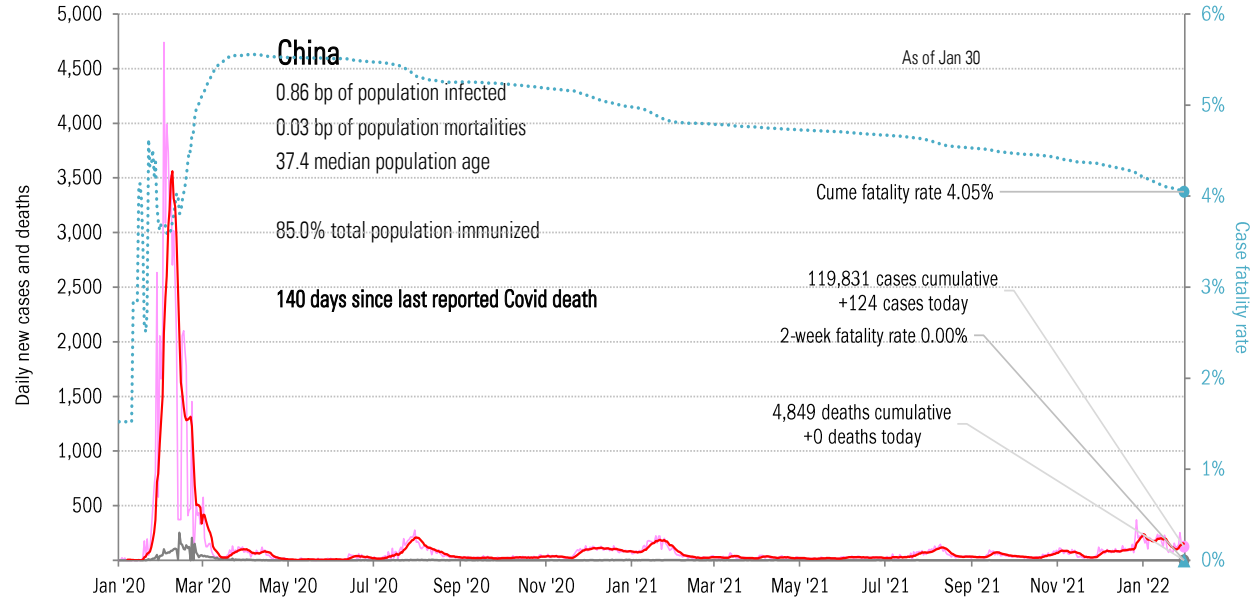
Cases: 7-day average and daily Deaths: Daily

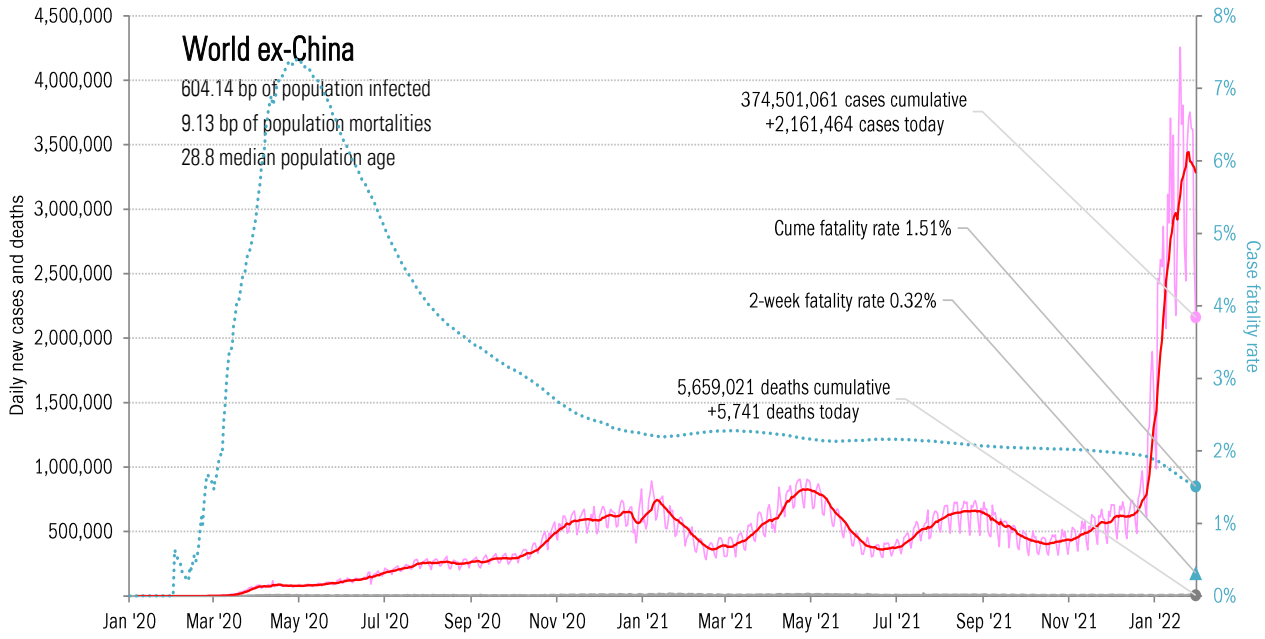


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

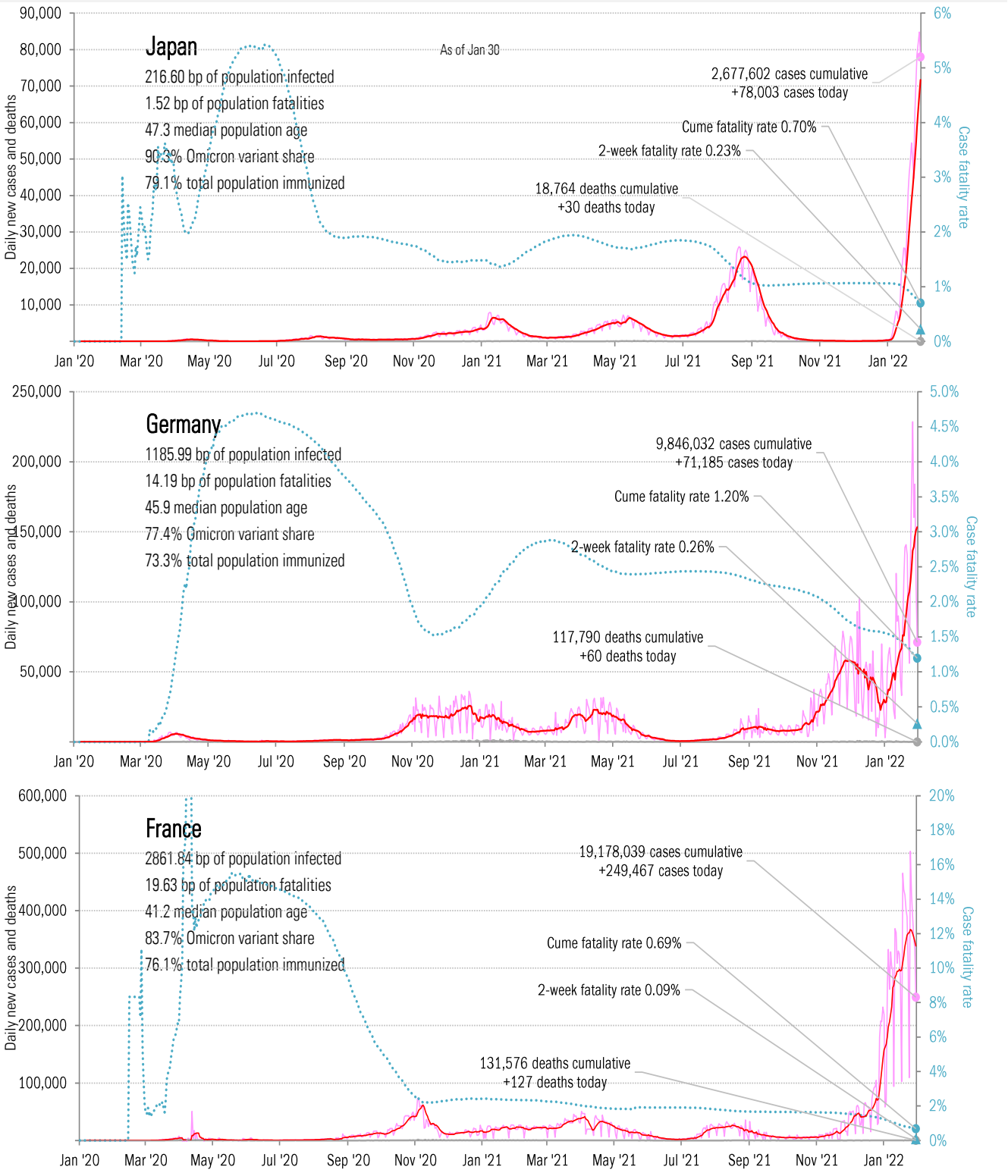




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

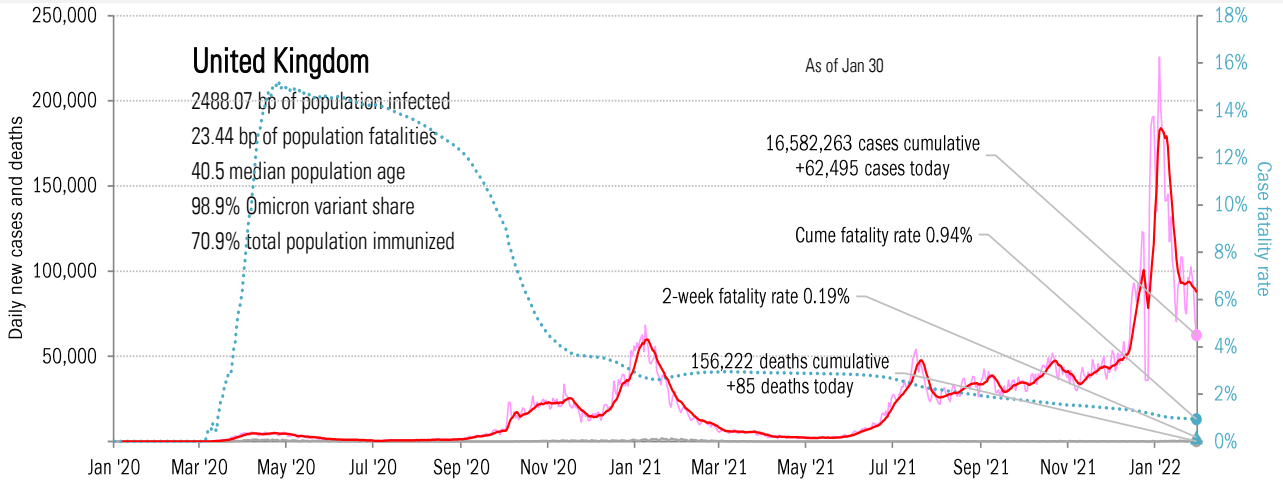
Cases: 7-day average and daily Deaths: Daily

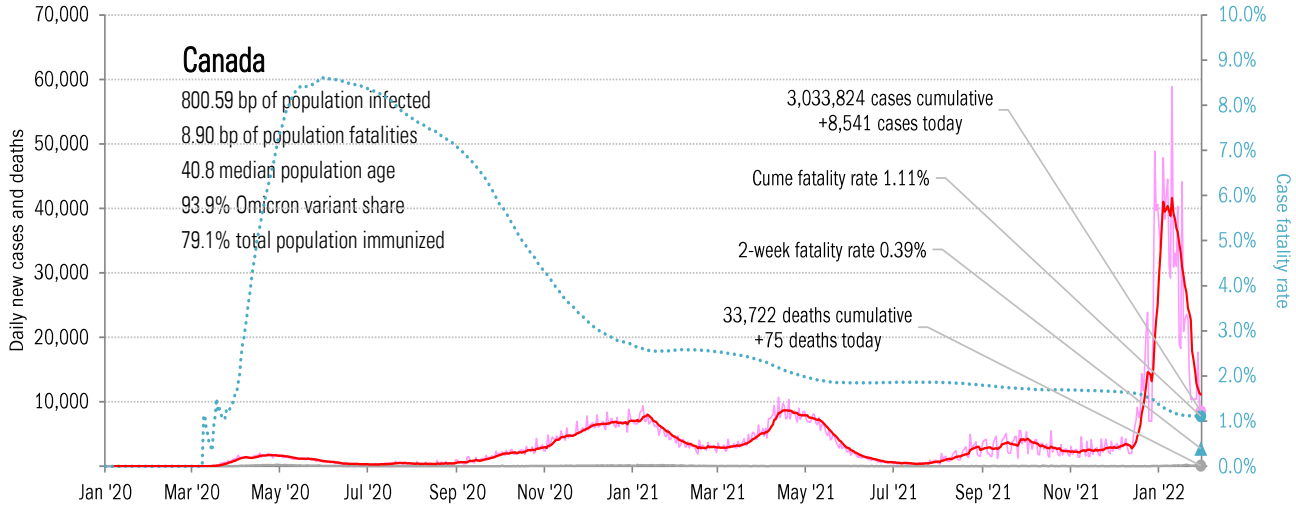


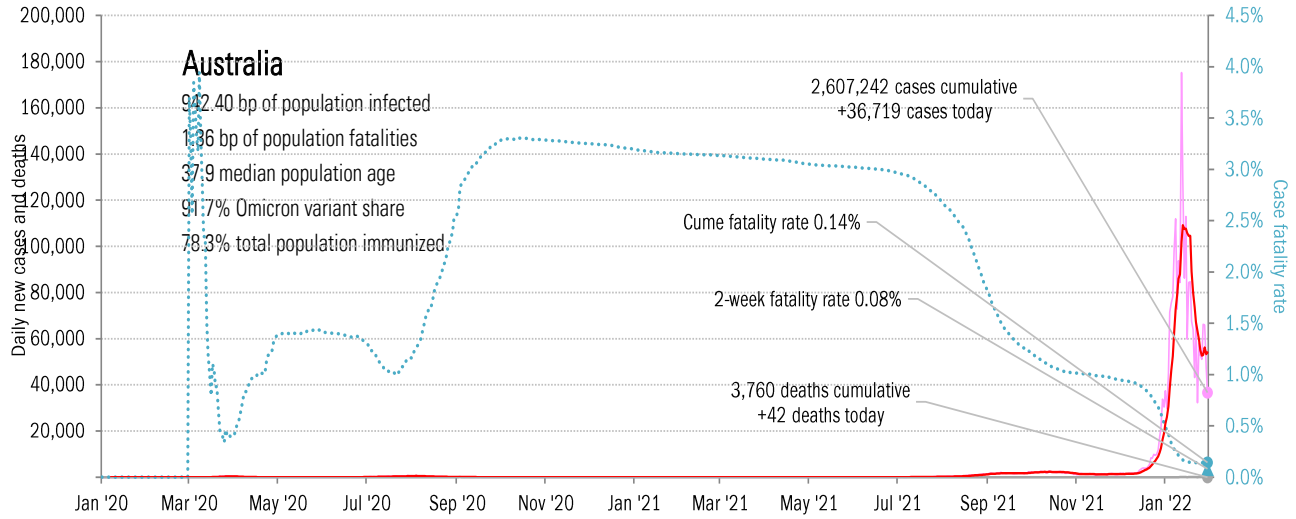
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily



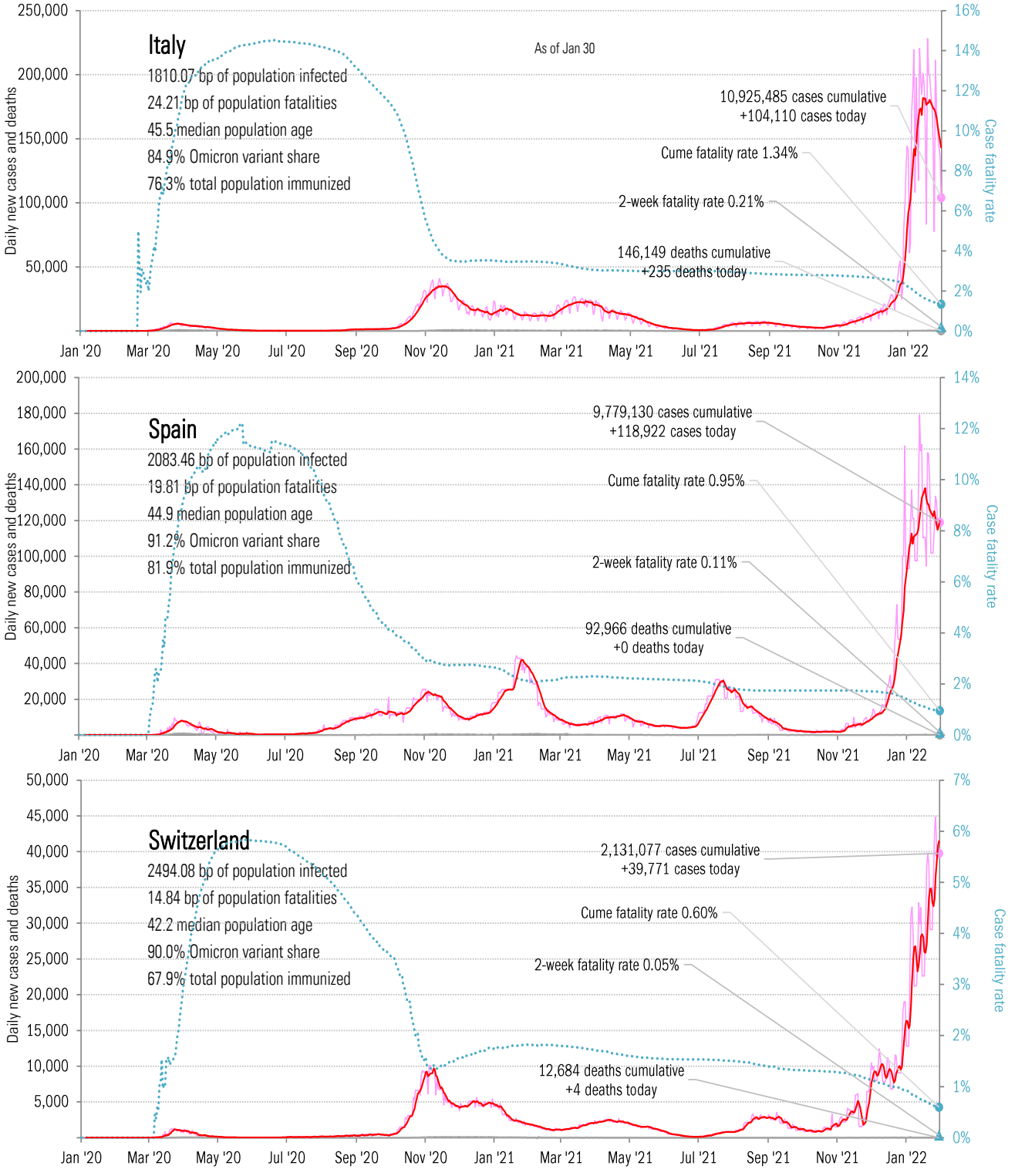




Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

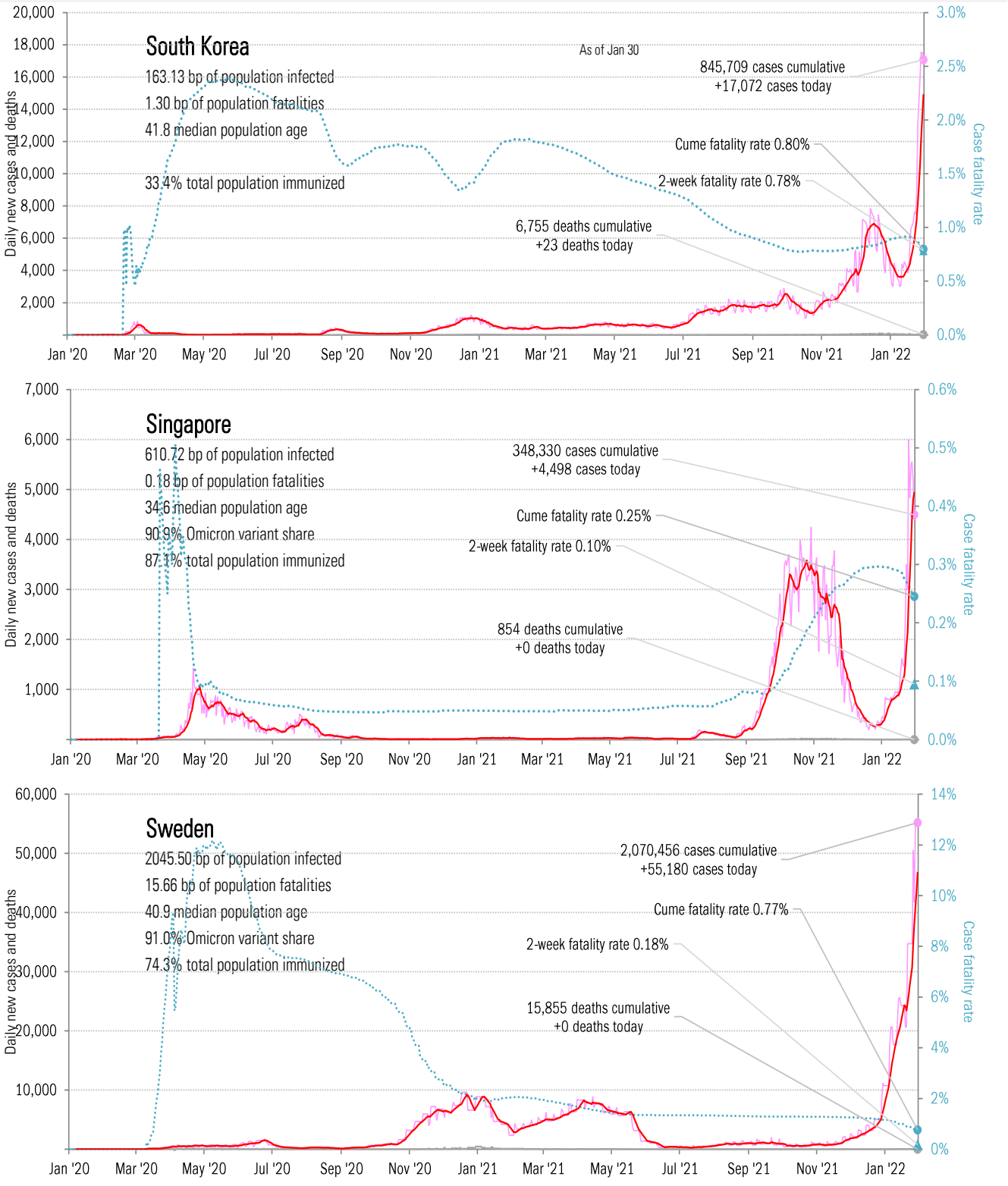
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

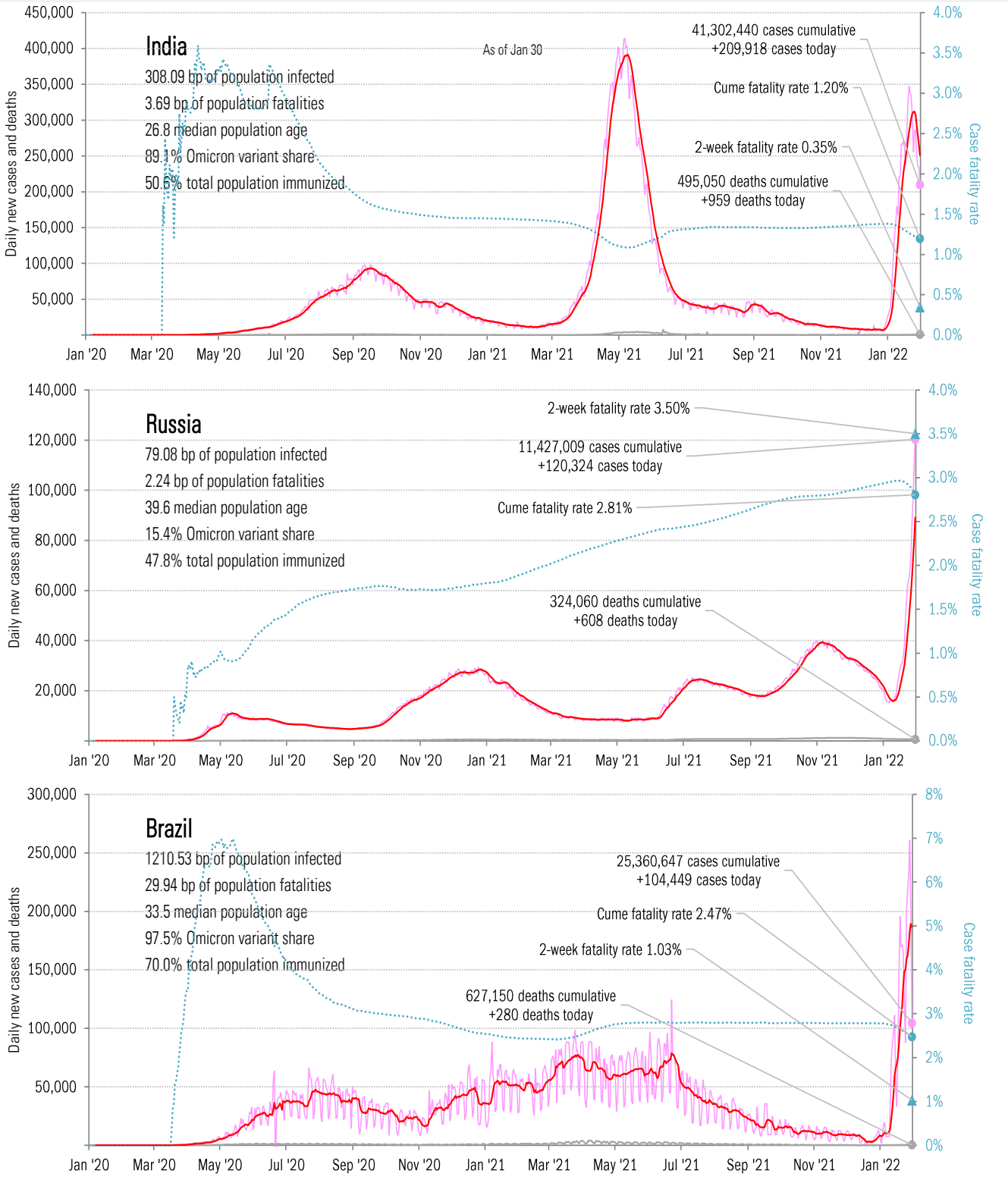
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

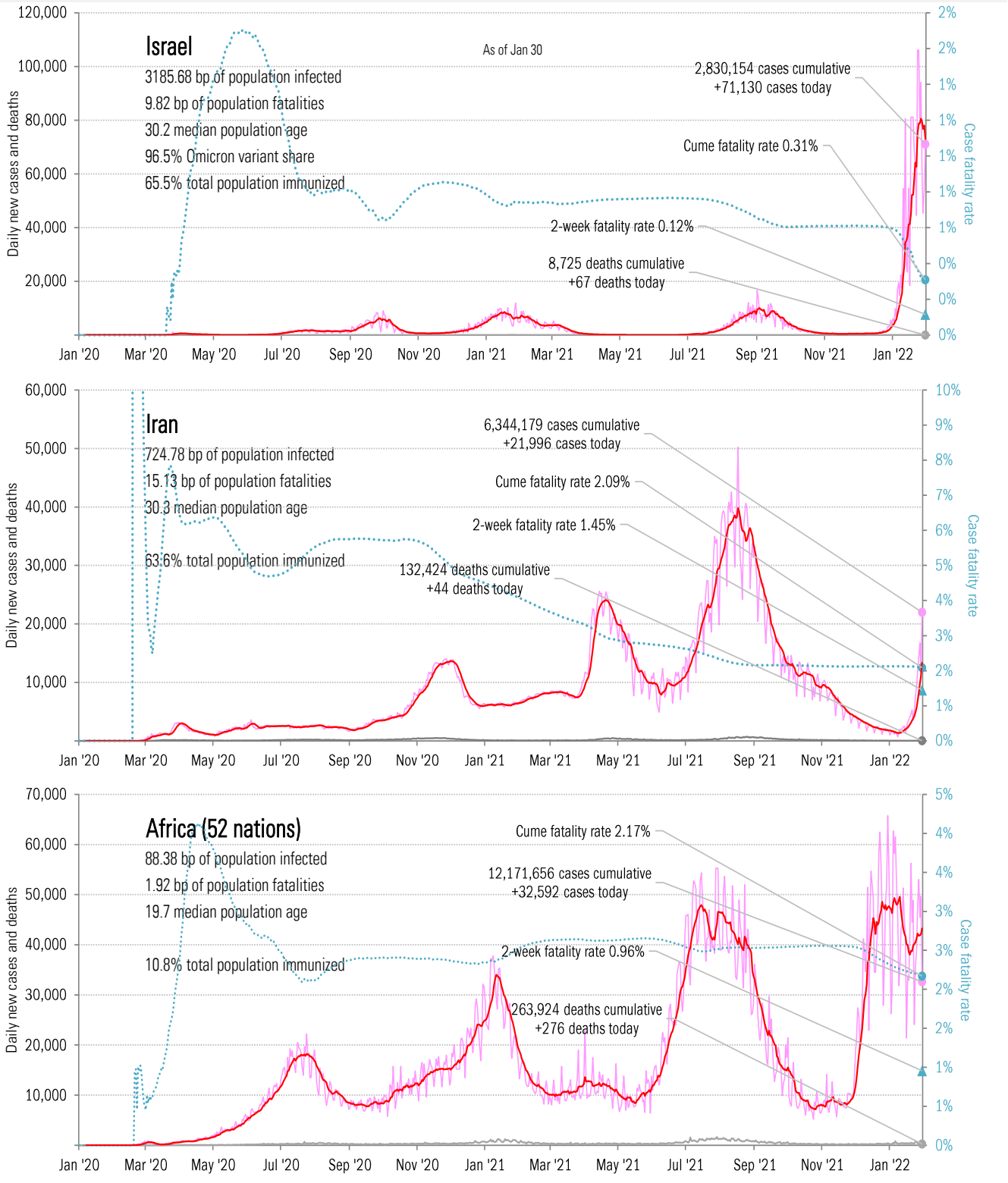
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

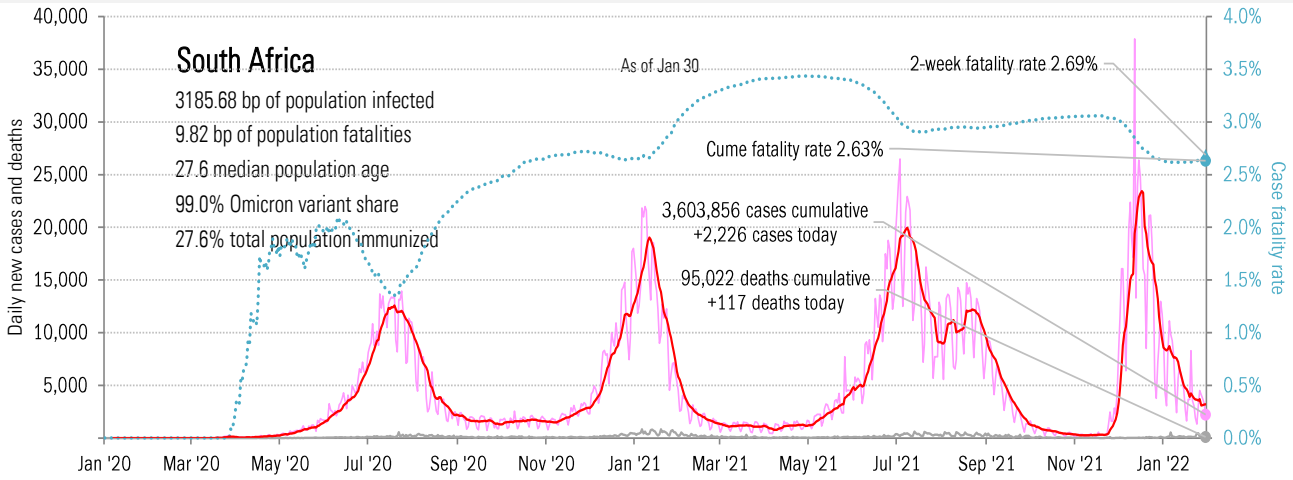
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations