Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

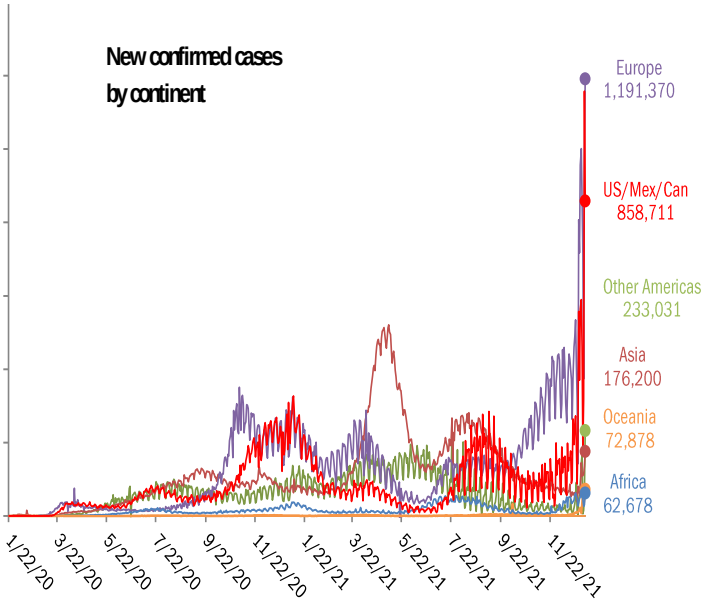
Wednesday, January 5, 2022

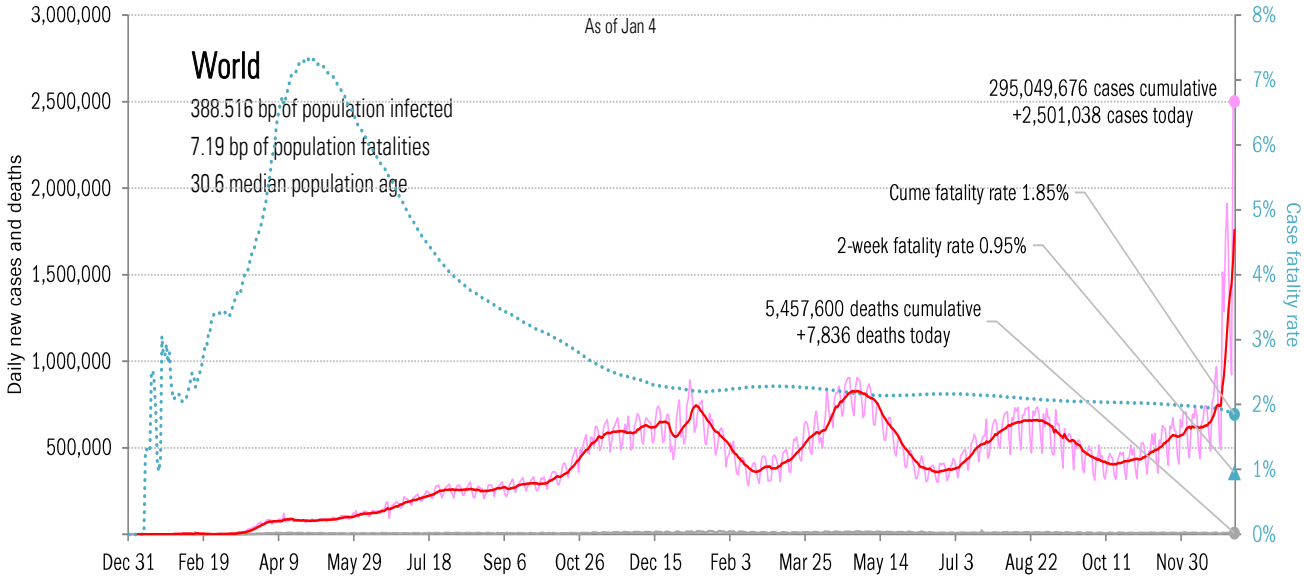
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	775,357	United States	2,369
France	271,974	Russia	810
United Kingdom	225,760	India	534
Italy	170,837	Poland	433
Spain	117,775	France	351
Canada	83,354	Germany	345
Argentina	81,210	Italy	259
Australia	71,495	Vietnam	224
Germany	61,905	Brazil	181
India	58,097	Ukraine	159
	1,917,764		5,665
World	2,501,038	World	7,836
Top ten	77%	Top ten	72%





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

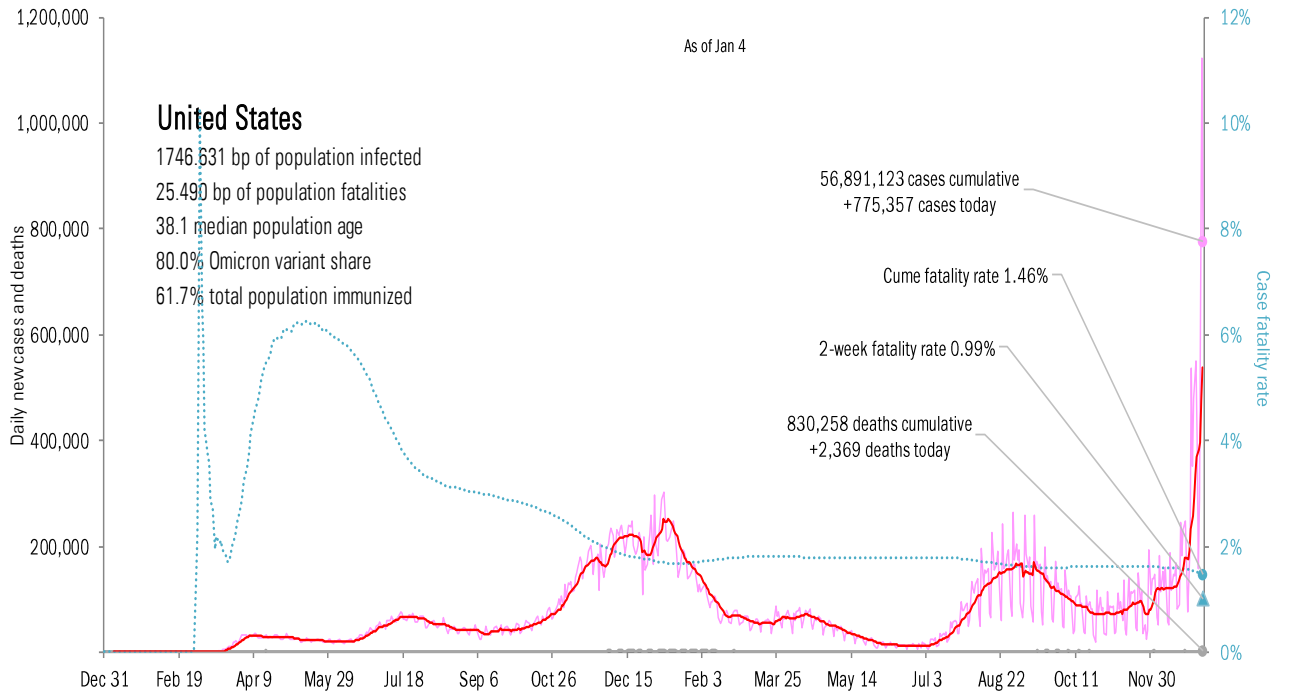
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	146,784	OH	227	FL	504	CA	5,749,984	CA	76,634	TX	406,936	GA	87%	KY	91%
GA	65,039	IN	172	CA	372	TX	4,804,721	TX	76,031	FL	342,314	RI	87%	RI	89%
FL	56,421	MO	169	GA	259	FL	4,192,567	FL	62,667	CA	339,694	DE	85%	IN	89%
TX	53,543	PA	169	NY	252	NY	3,736,399	NY	59,865	NY	198,561	WA	84%	NM	89%
NY	52,247	AZ	154	NJ	154	IL	2,263,166	PA	36,968	GA	173,171	PA	83%	MO	86%
SC	35,951	NY	105	TX	125	PA	2,122,986	GA	31,494	OH	158,552	MD	83%	TX	86%
NJ	29,614	MA	95	MD	117	OH	2,093,074	IL	30,510	PA	146,279	MA	83%	OK	86%
MO	26,182	CA	94	NC	103	GA	1,904,918	OH	29,674	IL	129,232	IN	81%	AL	86%
IL	24,423	IL	79	PA	86	MI	1,775,882	MI	29,343	KY	121,413	WV	81%	DC	86%
PA	21,967	NJ	78	MA	78	NC	1,742,844	NJ	29,151	MI	119,432	MI	81%	OH	85%
	512,171		1,342		2,050		30,386,541		462,337		2,135,584				
All states	775,357		2,369		2,457	All states	56,891,123		830,258		3,856,460	All states	70%		67%
Top ten	66%		57%		83%	Top ten	53%		56%		55%	Median	76%		81%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-109,328	MI	-323	TX	-509	IL	+159 bp
NY	-79,846	TX	-159	NY	-265	MP	+90 bp
MI	-65,557	FL	-120	IL	-217	MS	+60 bp
IL	-64,772	IL	-98	NJ	-188	NV	+30 bp
NC	-35,625	KY	-95	OH	-158	AK	+20 bp



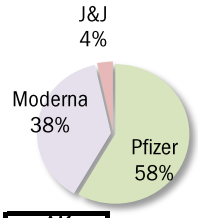
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	525,952,733				+1.010 million
Boosters	72,687,267				+0.569 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	250,940,483	75%	211,722,956	63%	+0.155 million
Age 12 to 17	15,272,720	64%	12,824,875	54%	+0.012 million
Age 18 to 64	169,754,886	83%	143,872,801	71%	+0.079 million
Age 65 and over	57,831,075	100%	49,683,128	91%	+0.011 million

Immunity	Full	Partial
US	61.7%	73.8%
UK	69.6%	76.0%
France	73.5%	78.3%
Spain	81.4%	85.3%
Germany	70.8%	73.7%
Italy	74.3%	80.4%
Australia	76.8%	79.4%
Israel	64.0%	71.0%
Canada	77.4%	83.5%
Japan	78.9%	80.3%
Africa	9.3%	14.3%
India	44.1%	61.6%
Brazil	67.2%	77.8%
China	83.6%	87.2%

Global data differs due to sources, timing



Every American >18 immunized in

521 days

by Jun 9, 2023

75.0% of population >18 immunized

20.0% previously tested positive

95.0% vs 60% adult herd immunity

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

Best

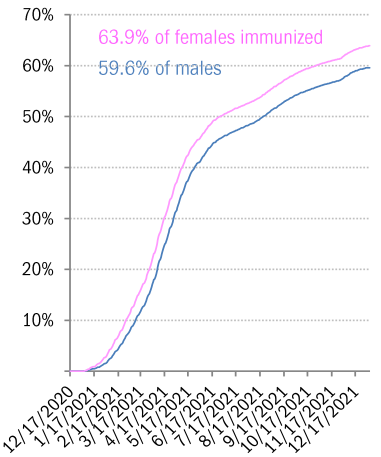
Middle

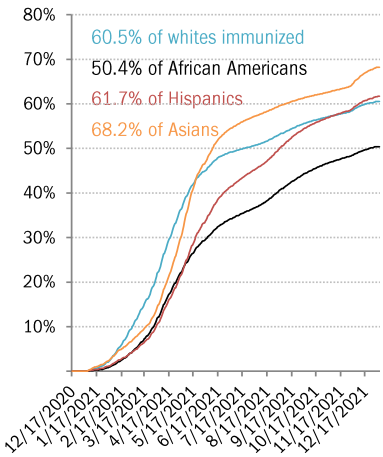
Worst

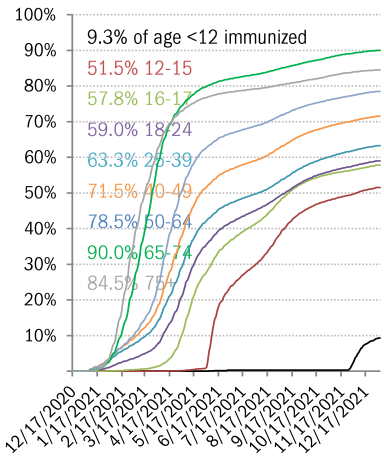
As of Jan 4

AK					WI				ME
65.2%					68.5%				86.3%
56.5%					62.2%				76.0%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
75.9%	52.3%	62.2%	62.5%	71.7%	72.6%	63.7%		84.6%	89.8%	95.0%
68.1%	46.3%	54.1%	52.8%	65.6%	64.4%	57.0%		72.0%	77.7%	67.4%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
74.2%	69.9%	56.1%	71.3%	65.2%	58.0%	60.7%	78.8%	84.2%	91.2%	
66.5%	56.7%	47.7%	57.3%	59.2%	52.1%	55.4%	64.1%	70.7%	74.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
83.3%	67.6%	74.9%	66.7%	62.5%	62.7%	62.2%	79.5%	80.8%	89.3%	89.6%
66.4%	59.0%	66.5%	60.1%	53.1%	54.4%	55.2%	68.2%	70.6%	74.9%	76.8%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	67.7%	81.0%	69.7%	63.0%	59.0%	77.1%	63.1%	89.2%	77.1%	
	57.2%	66.4%	57.2%	51.4%	51.5%	56.9%	53.3%	67.8%	64.4%	
			OK	LA	MS	AL	GA			
			66.4%	57.7%	56.2%	58.8%	61.5%			
			53.7%	50.4%	48.7%	47.8%	51.2%			
HI			TX					FL		PR
89.3%			67.2%					74.9%		89.3%
63.9%			57.2%					63.5%		77.2%

The demographics of US vaccination



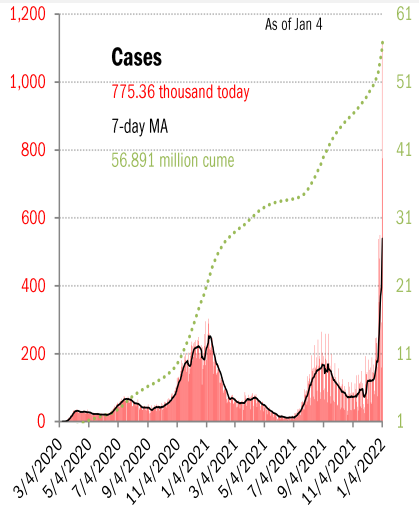


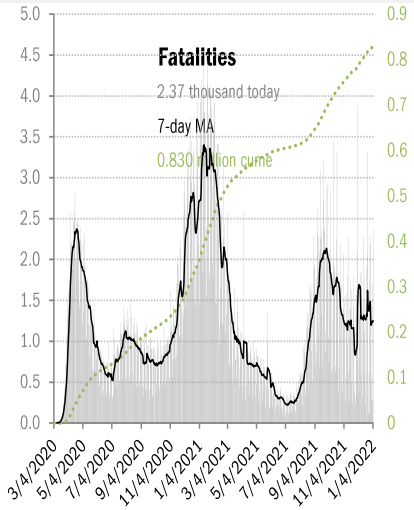


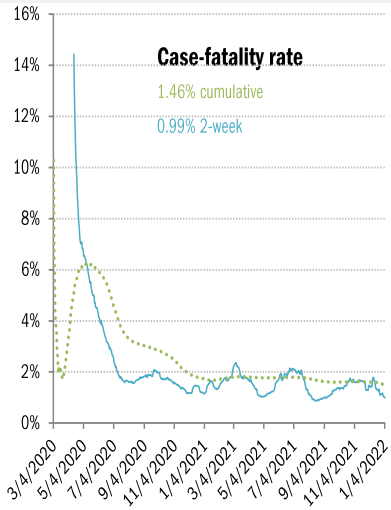
Source: CDC, CDC, Our World in Data, TrendMacro calculations

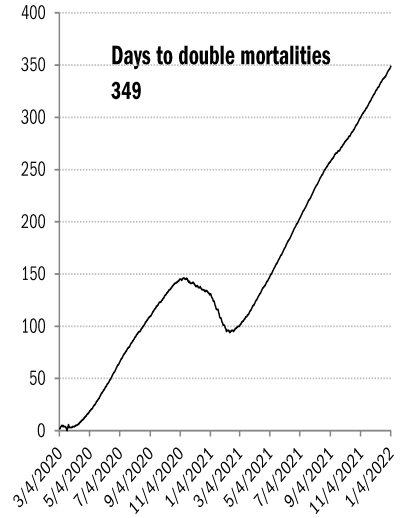
US deep-dive

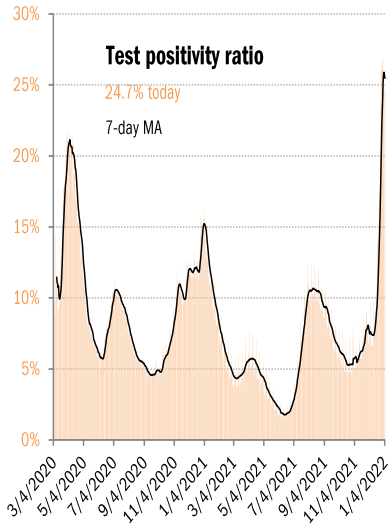
National and state-by-state data do not line up because of different sources

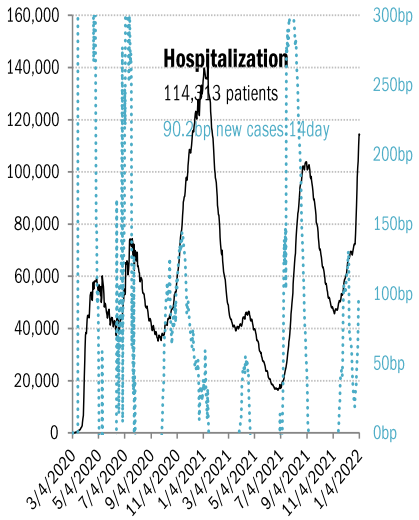


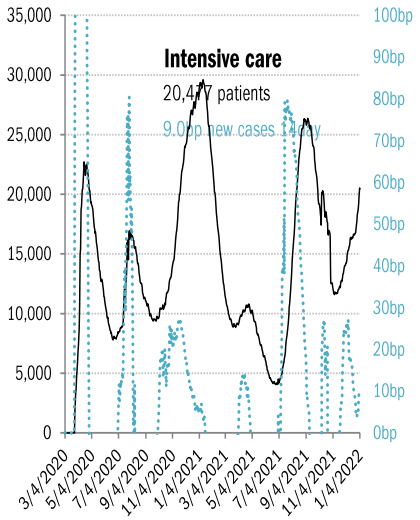


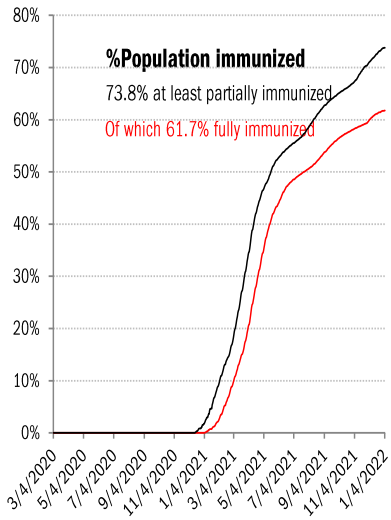












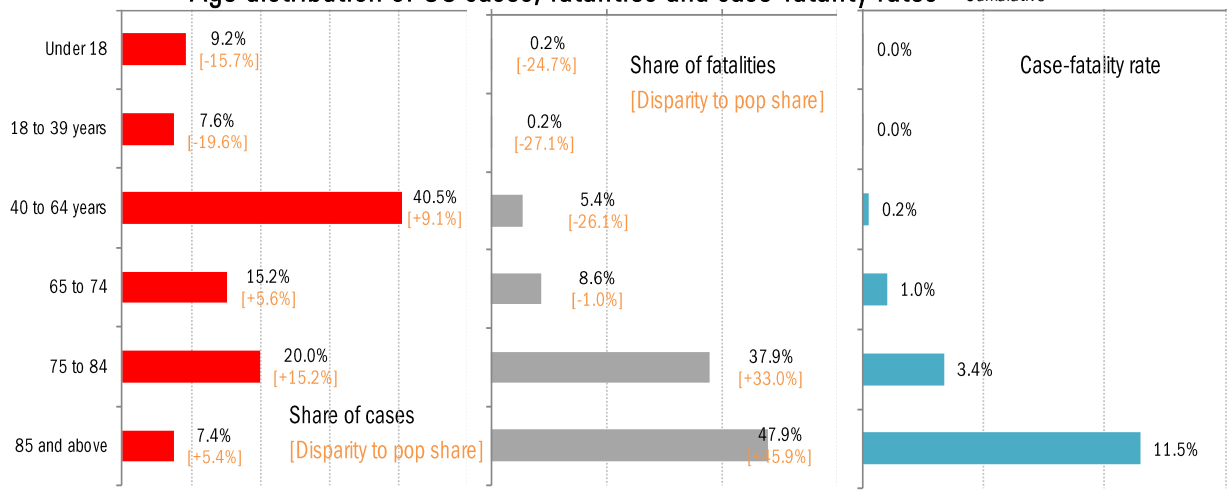
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

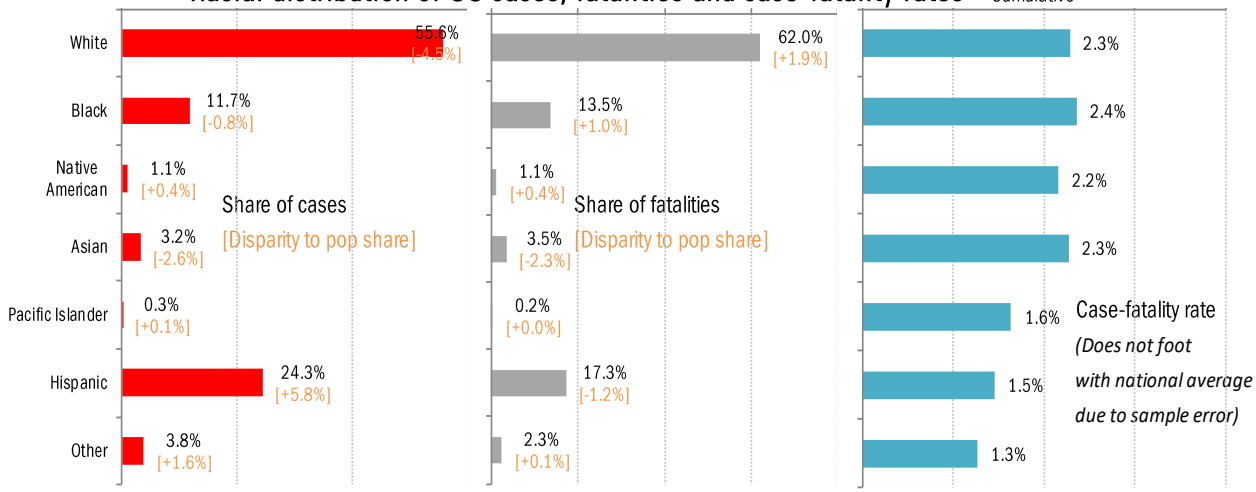
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



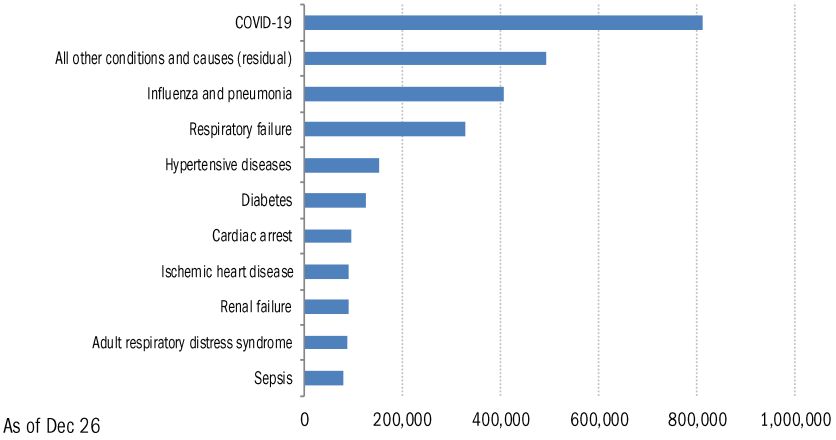
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Dec 26

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

[In a Clash With the Teachers' Union, Chicago Cancels Classes for a Day]
Mitch Smith and Dana Goldstein
New York Times
January 4, 2022

[In Omicron Hot Spots, Hospitals Fill Up, but I.C.U.s May Not]
Emily Anthes and Azeen Ghorayshi
New York Times
January 4, 2022

[Will pandemic babies catch up?]
Joanne Jacobs
Linking and Thinking on Education
January 3, 2022

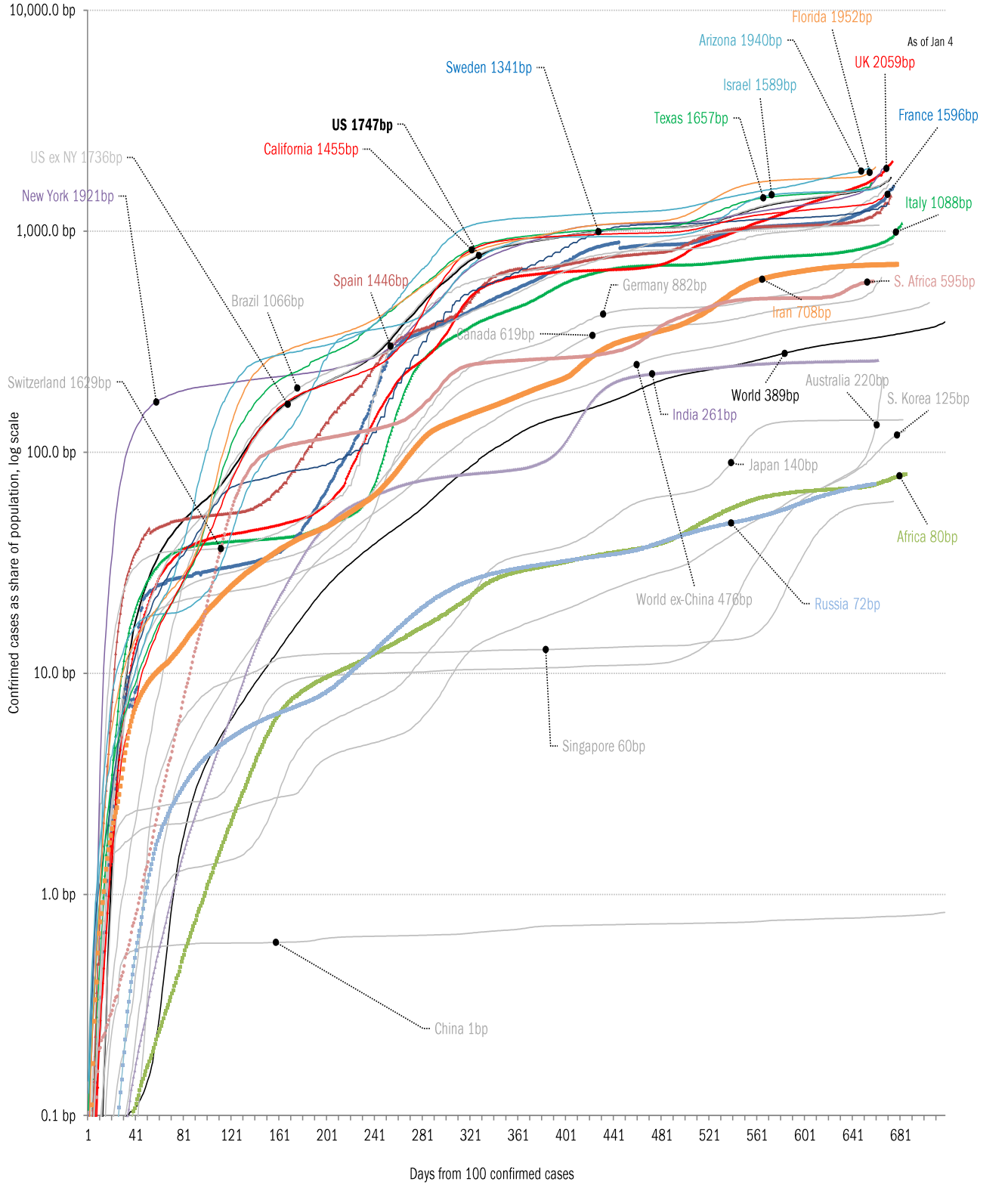
[Transcript of Joe Rogan Interviewing Dr. Robert Malone]
The Last Refuge
January 3, 2021

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

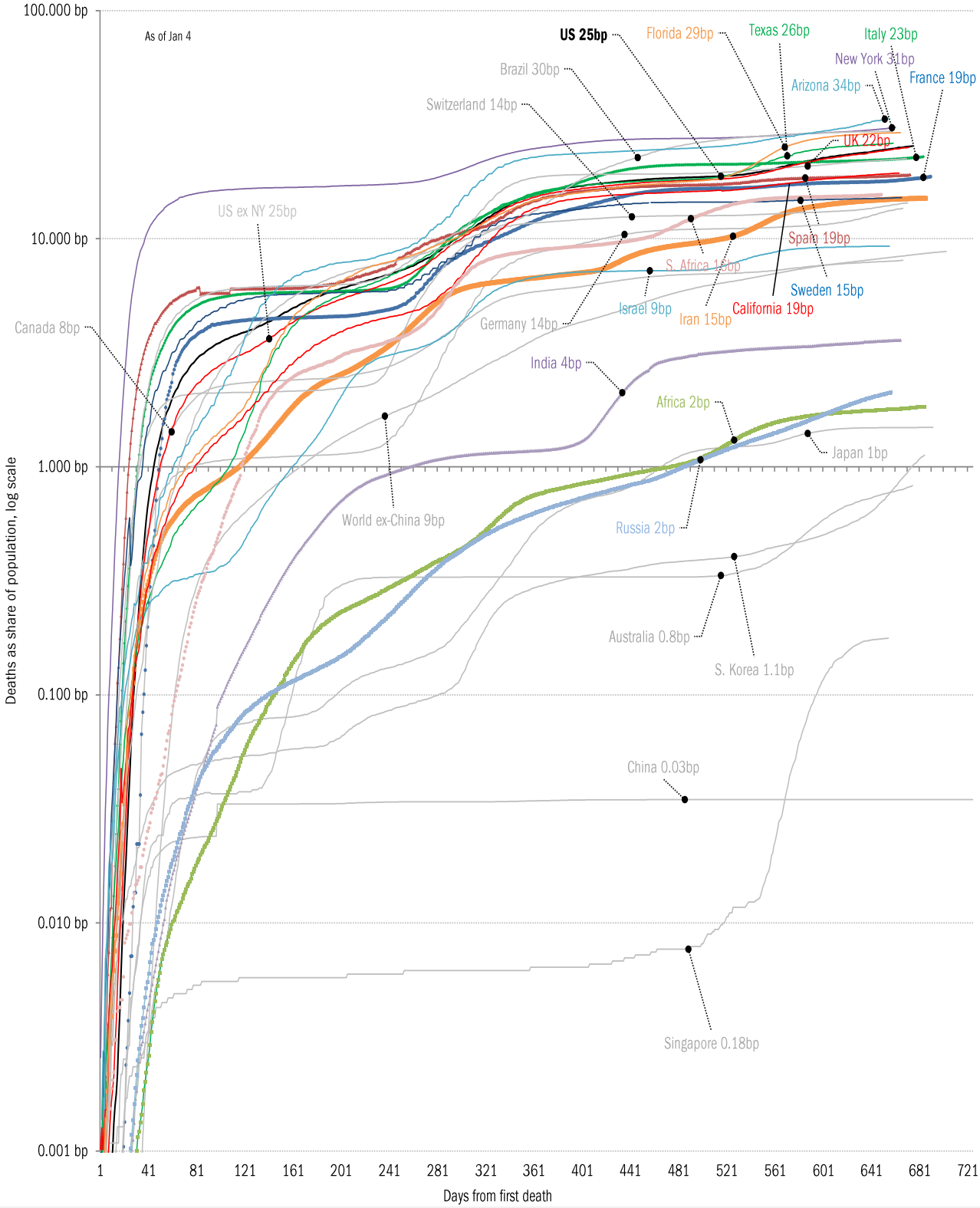
Share of infected population from first day with 100 confirmed cases, log scale



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

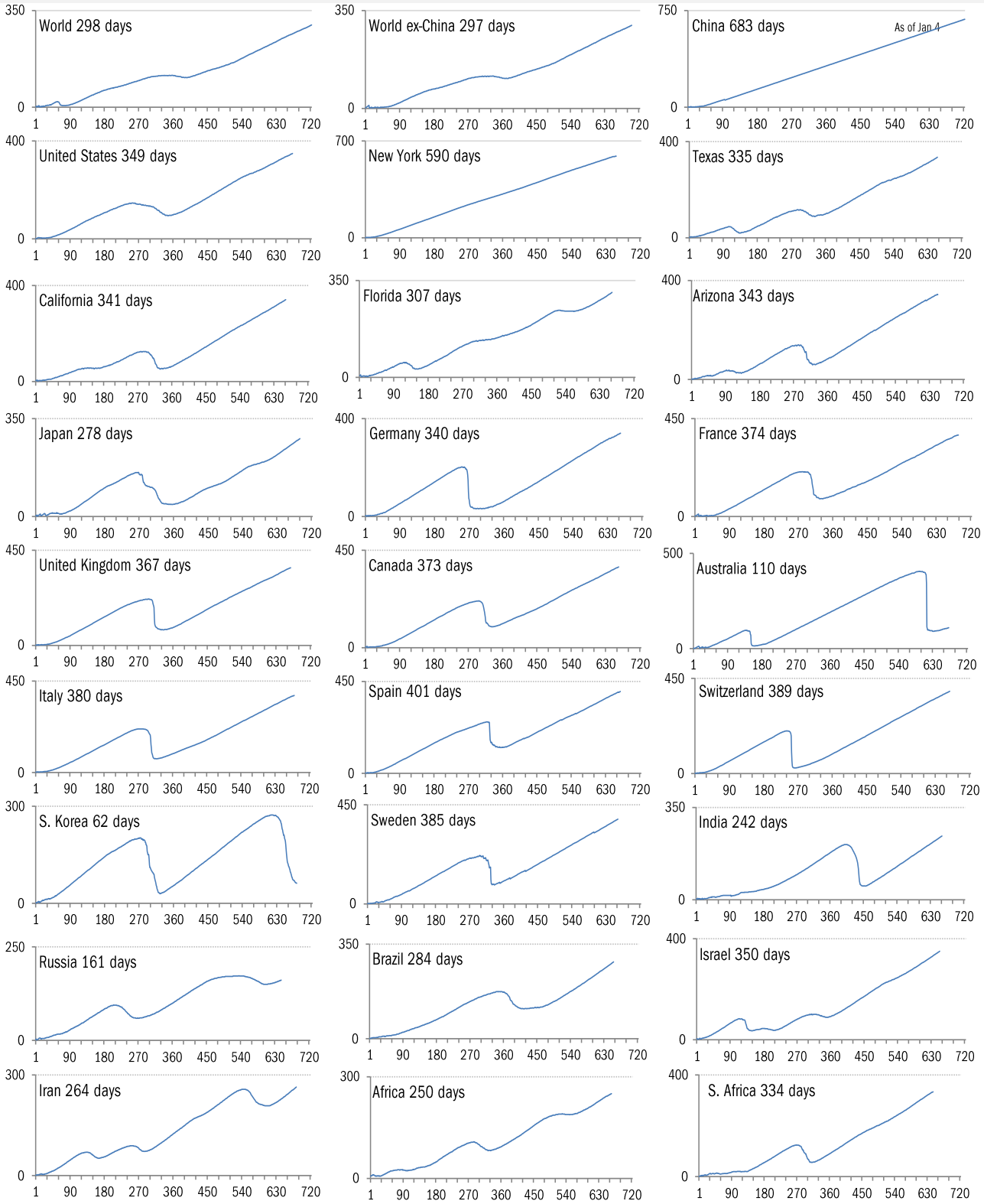


Source: Johns Hopkins, TrendMacro calculations

"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

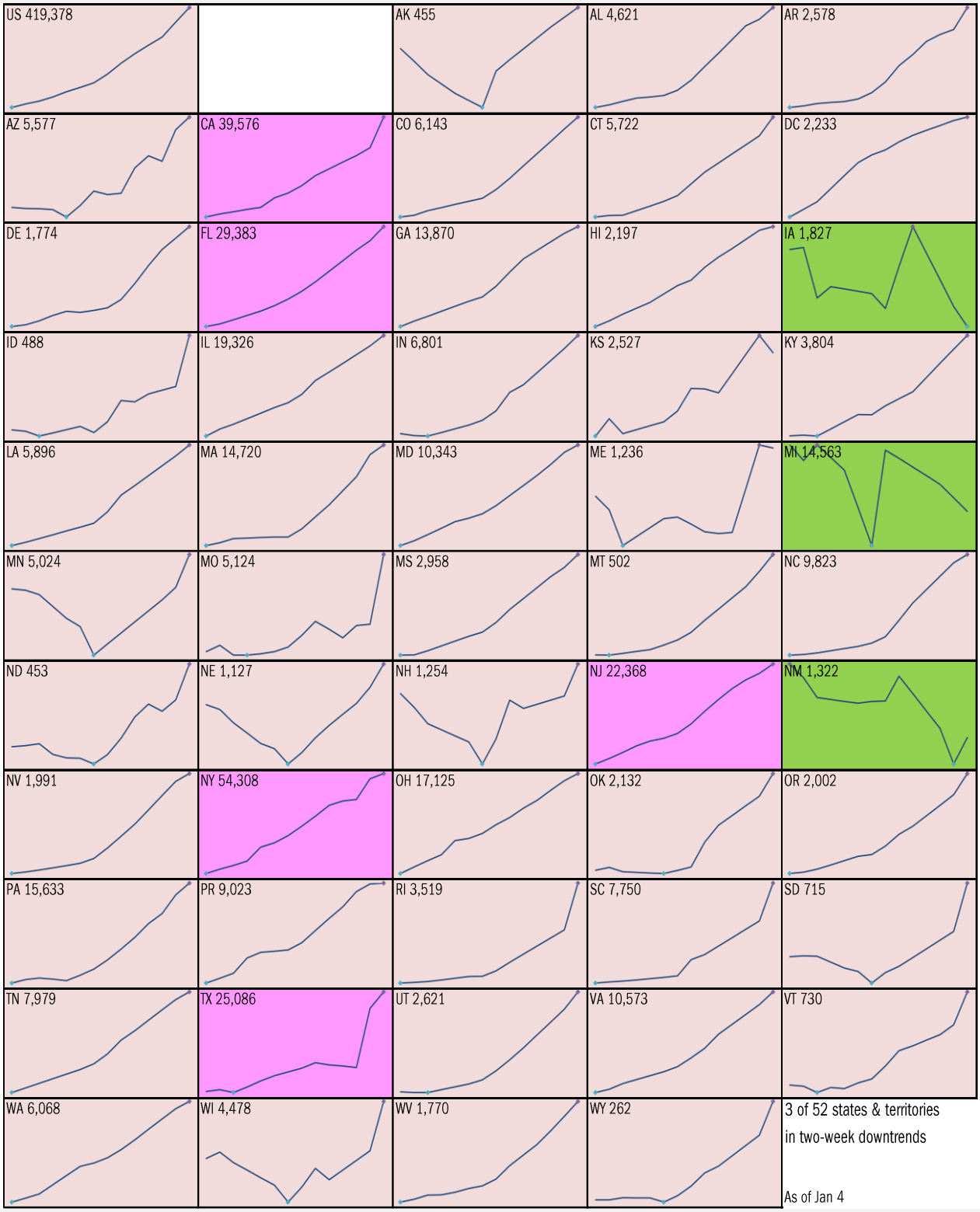


Source: Johns Hopkins, TrendMacro calculations

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

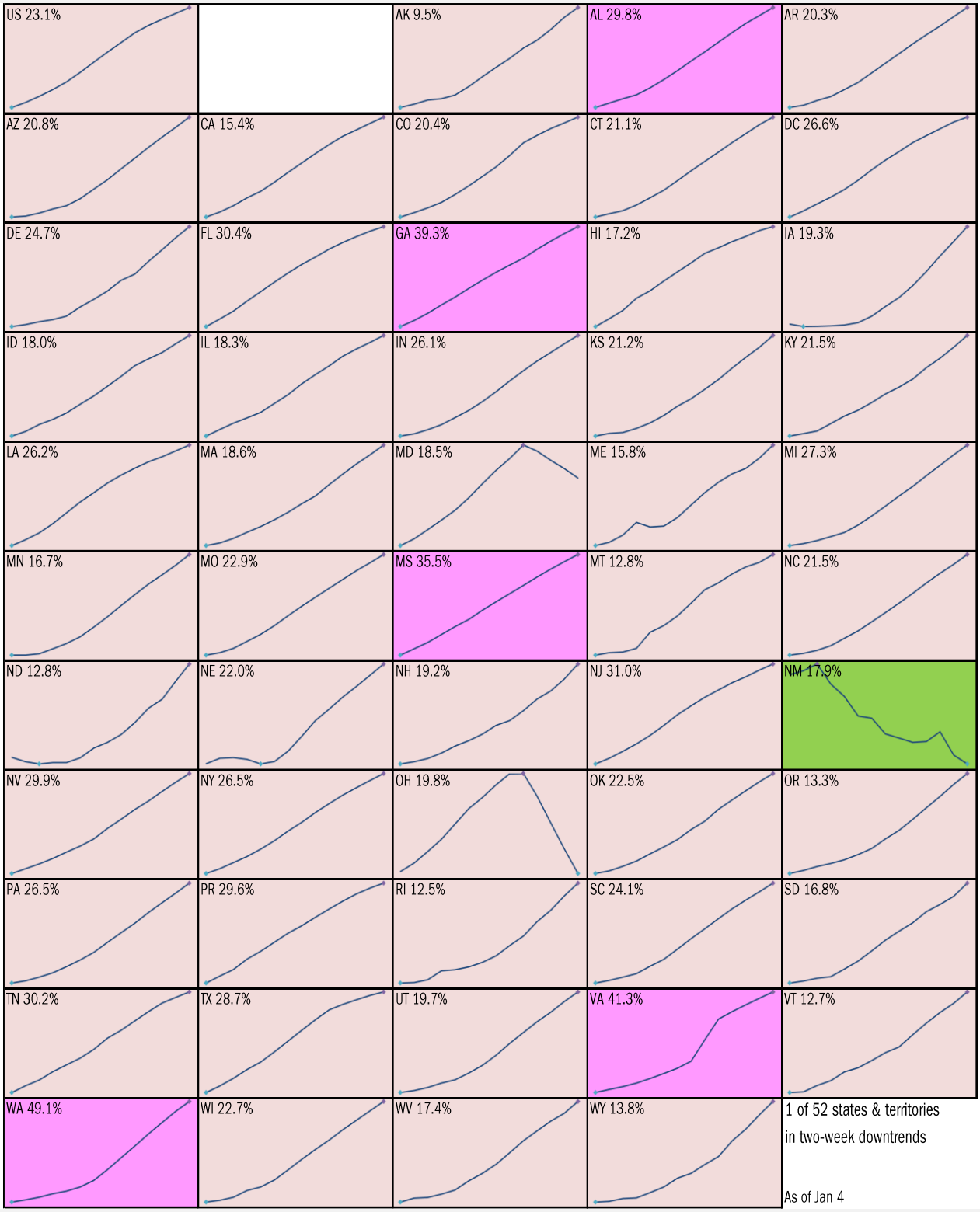


Source: Johns Hopkins, TrendMacro calculations

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

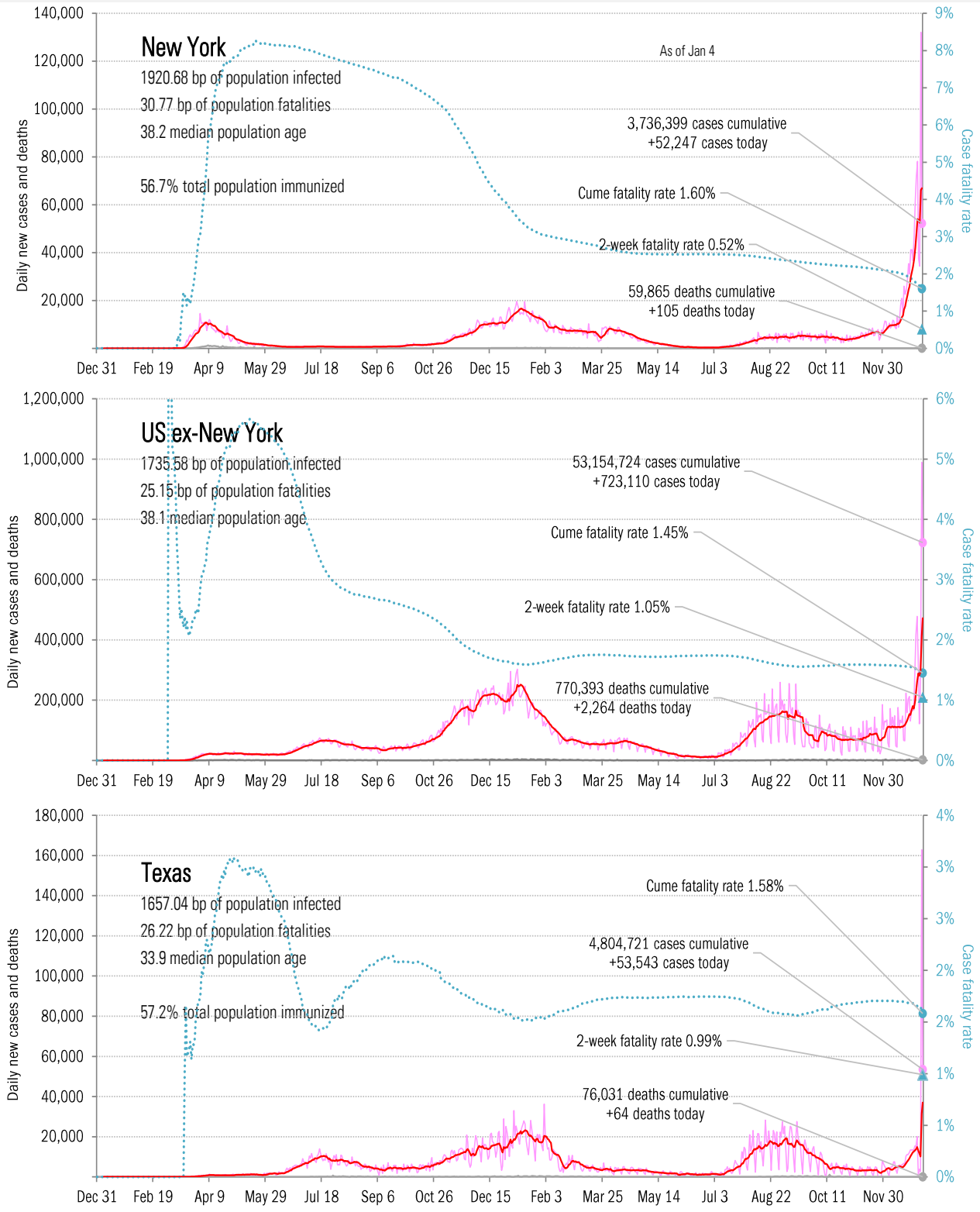
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

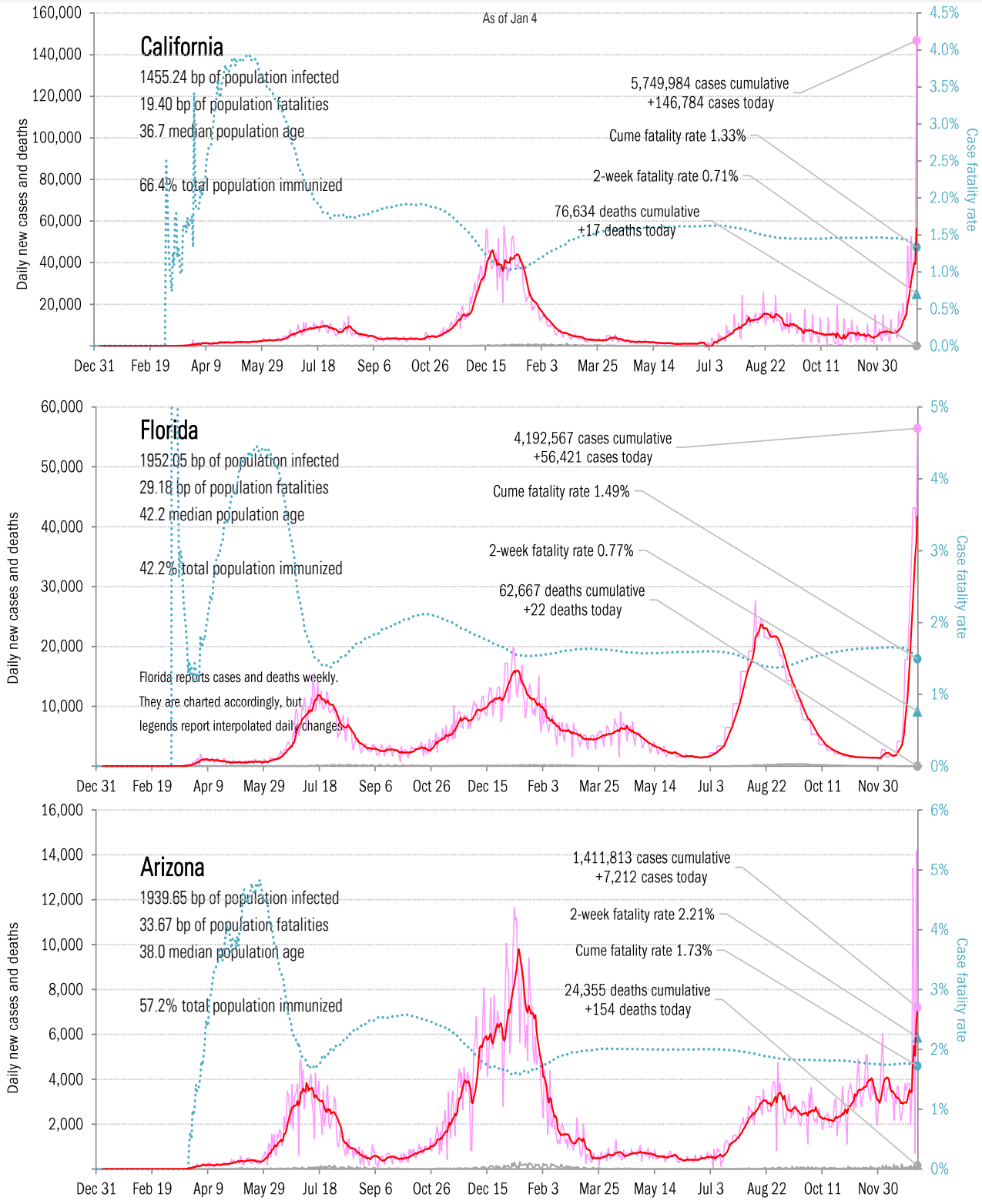
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

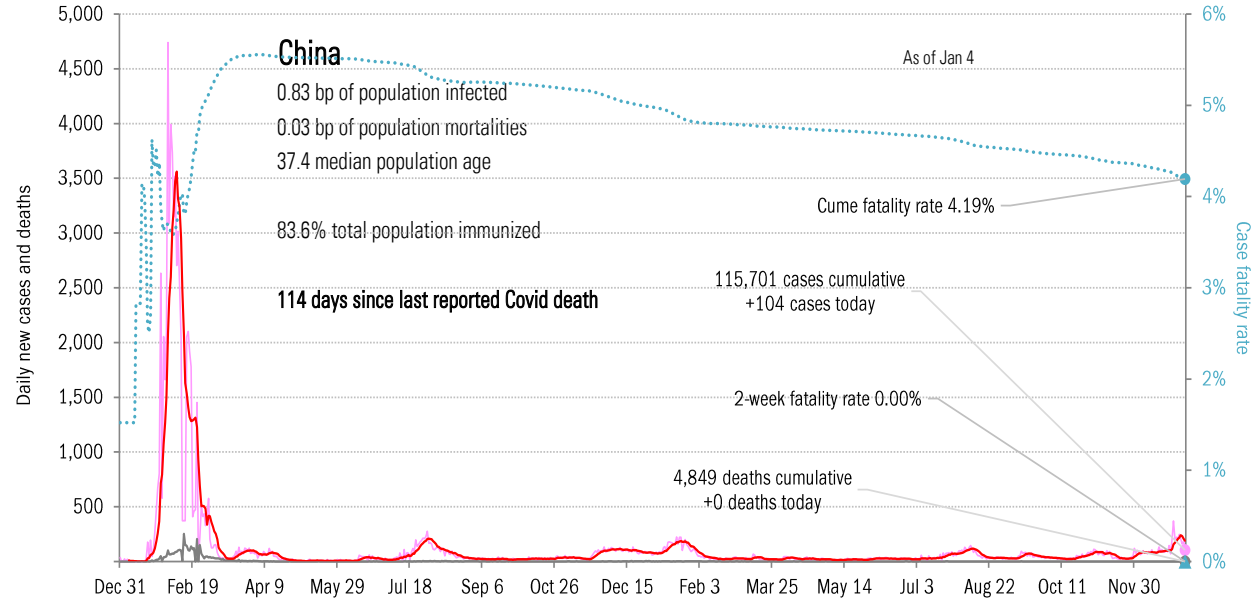
Cases: 7-day average and daily Deaths: Daily

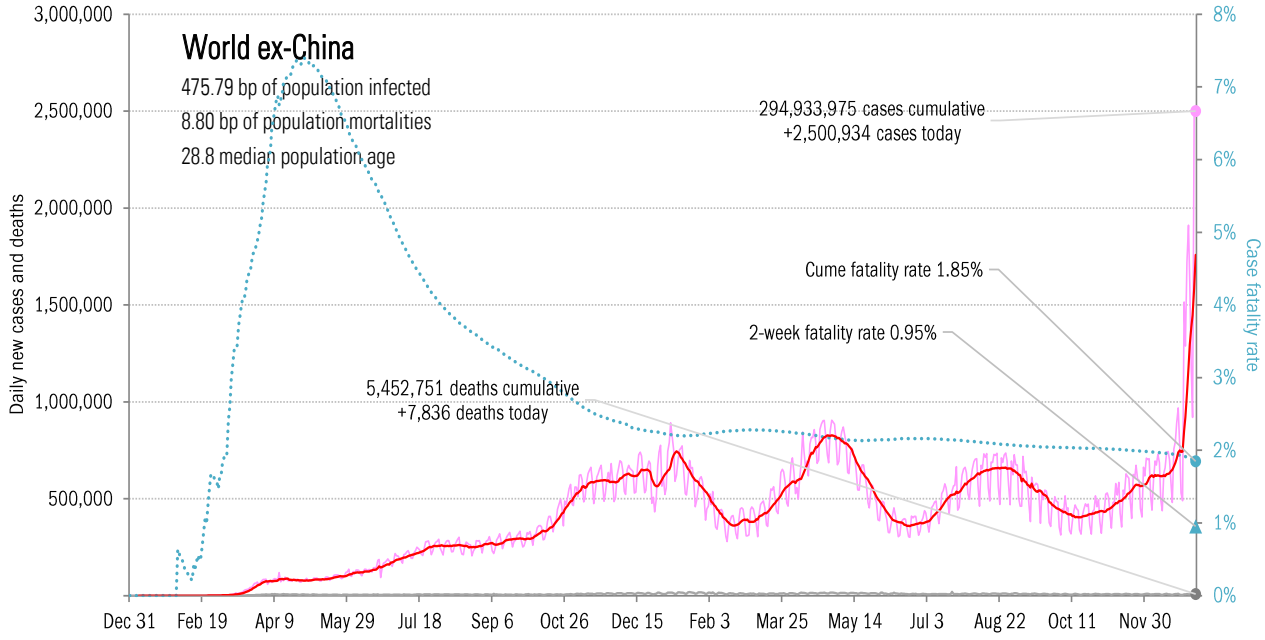


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

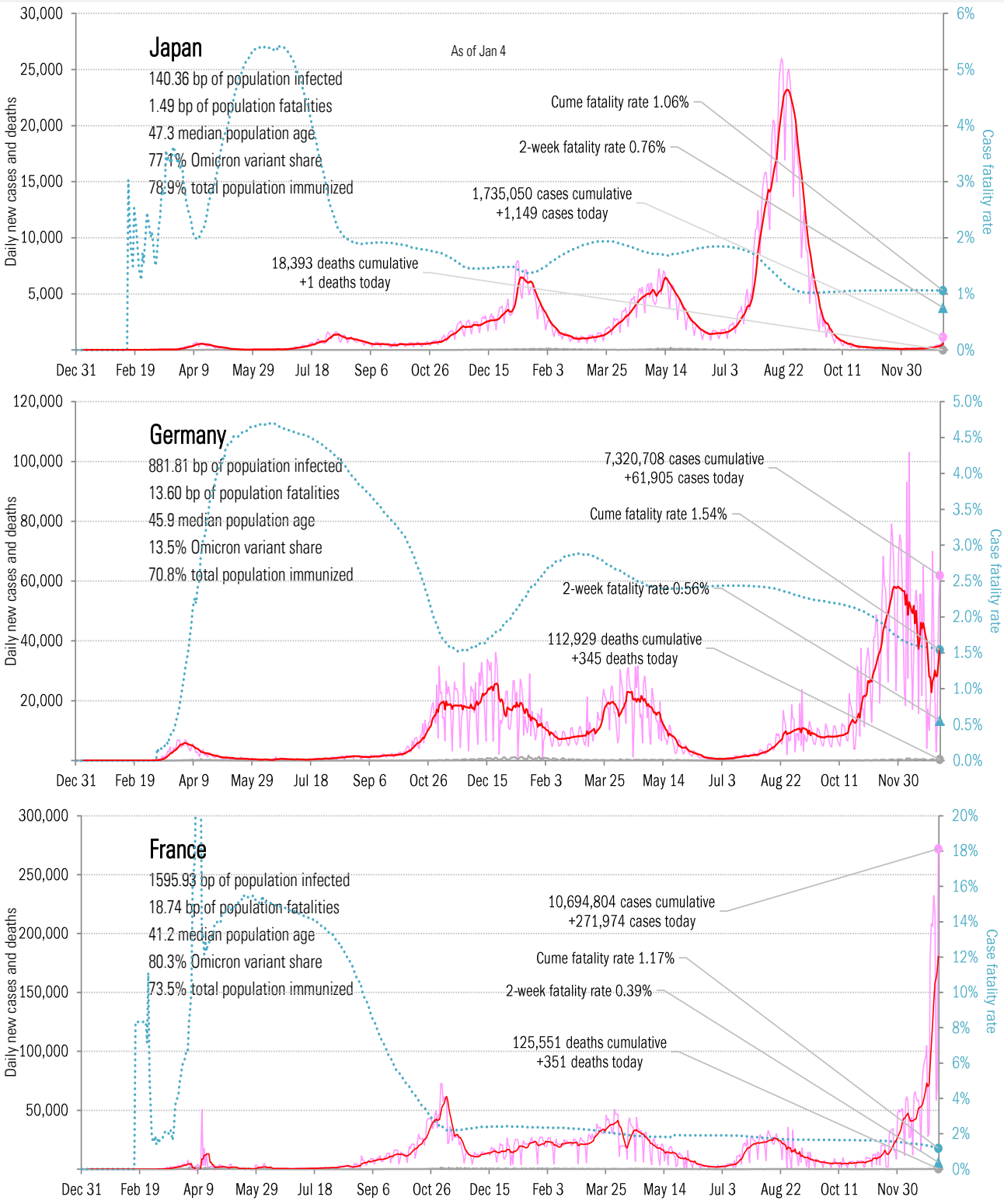




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

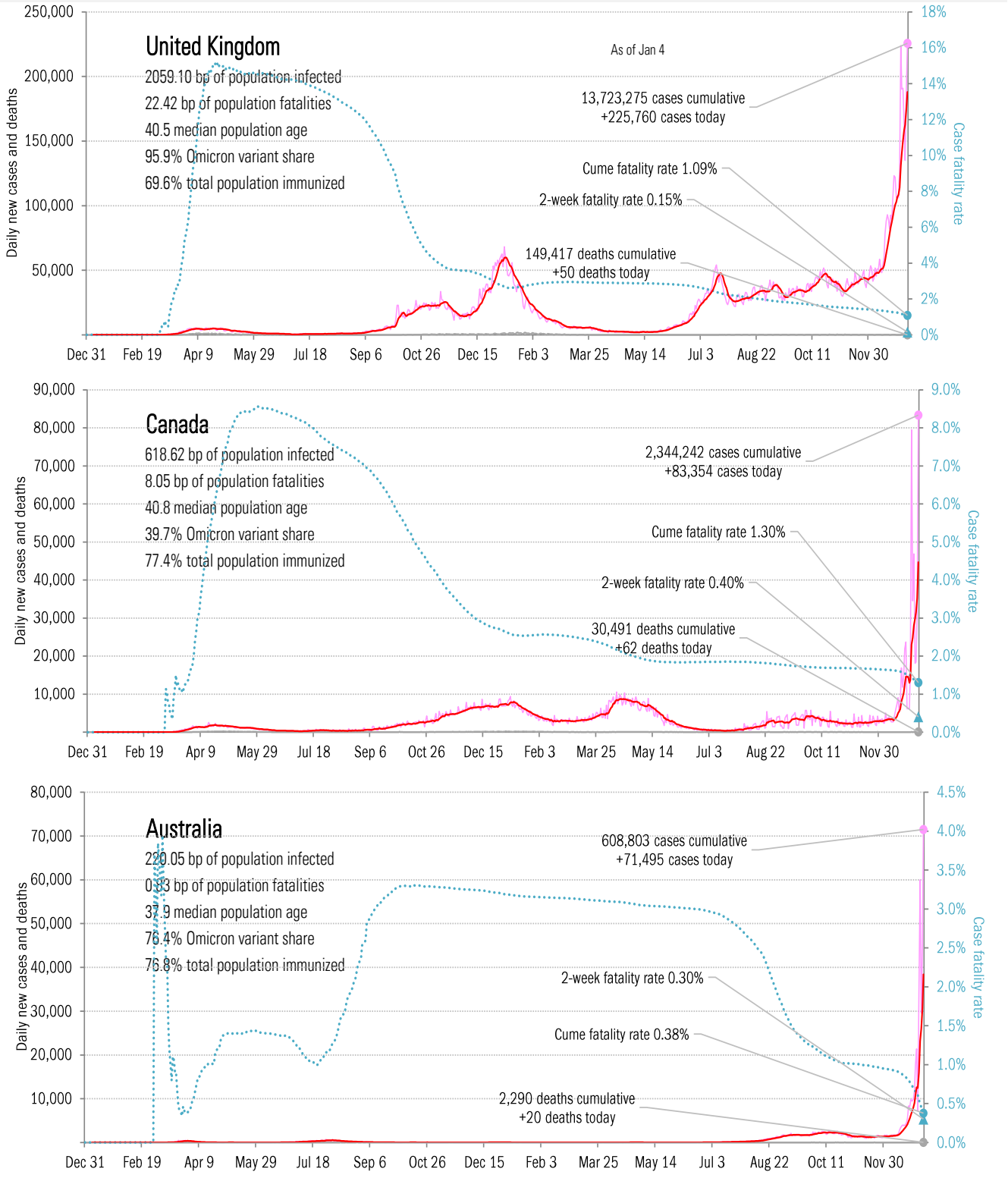
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

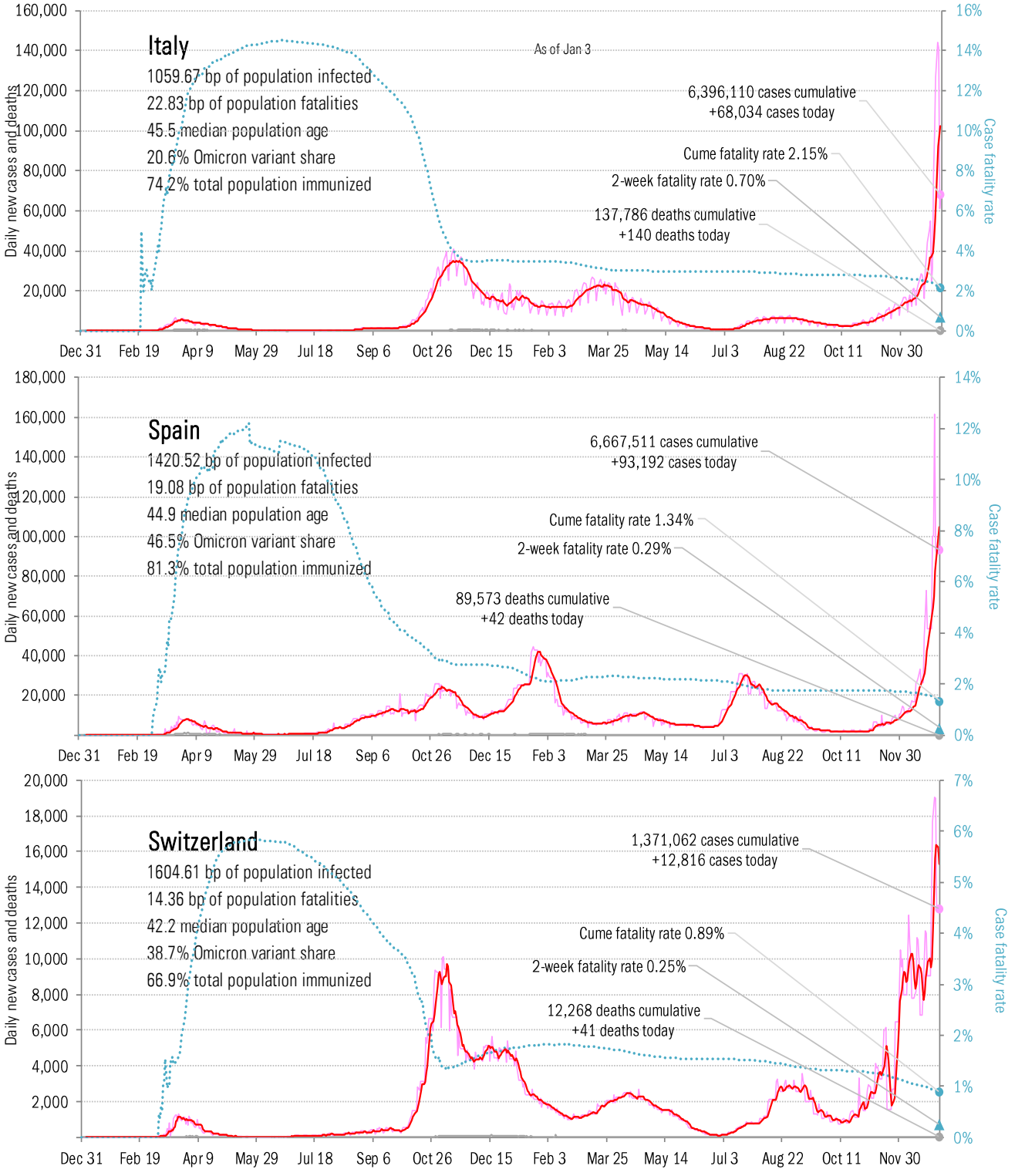
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

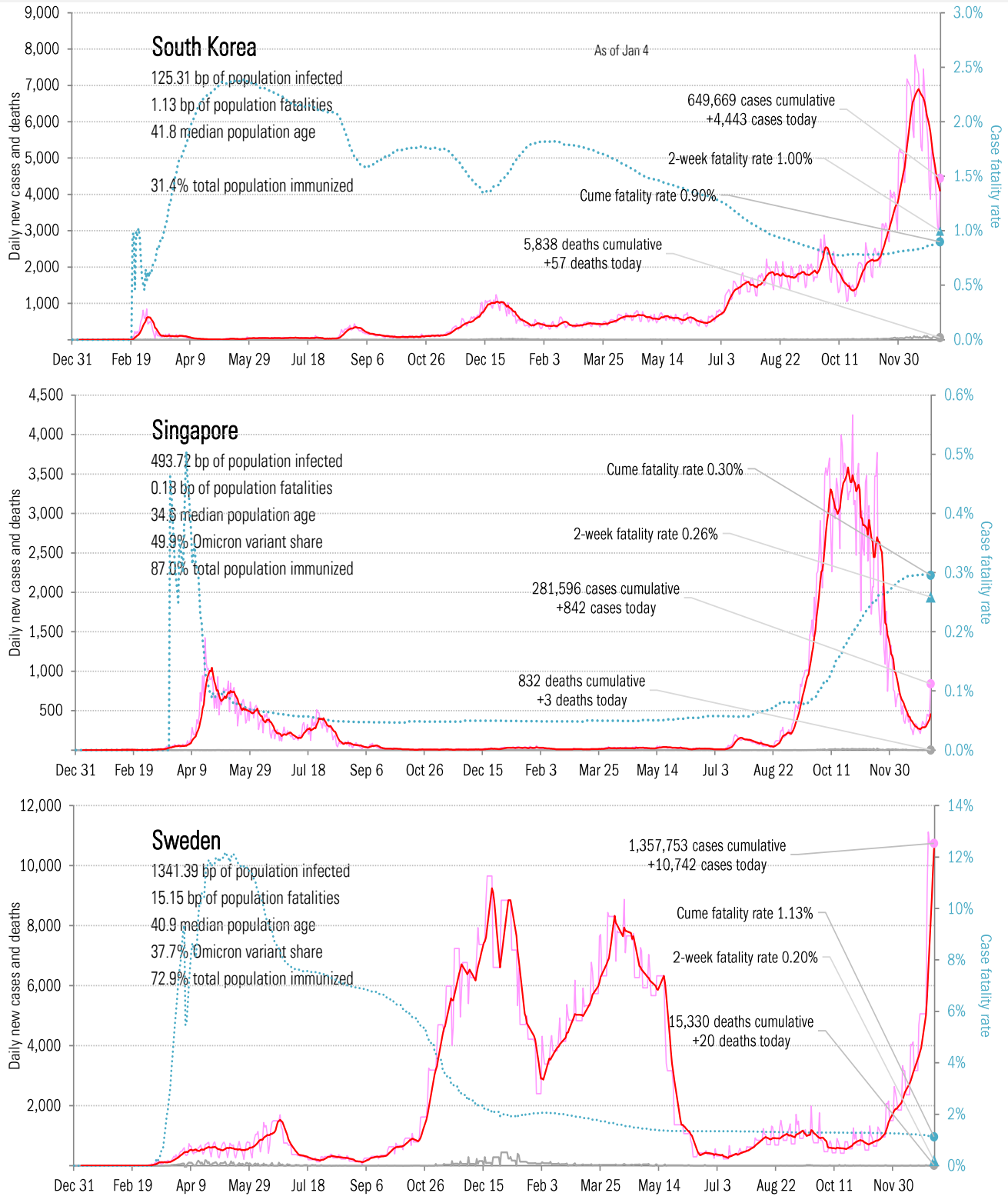
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

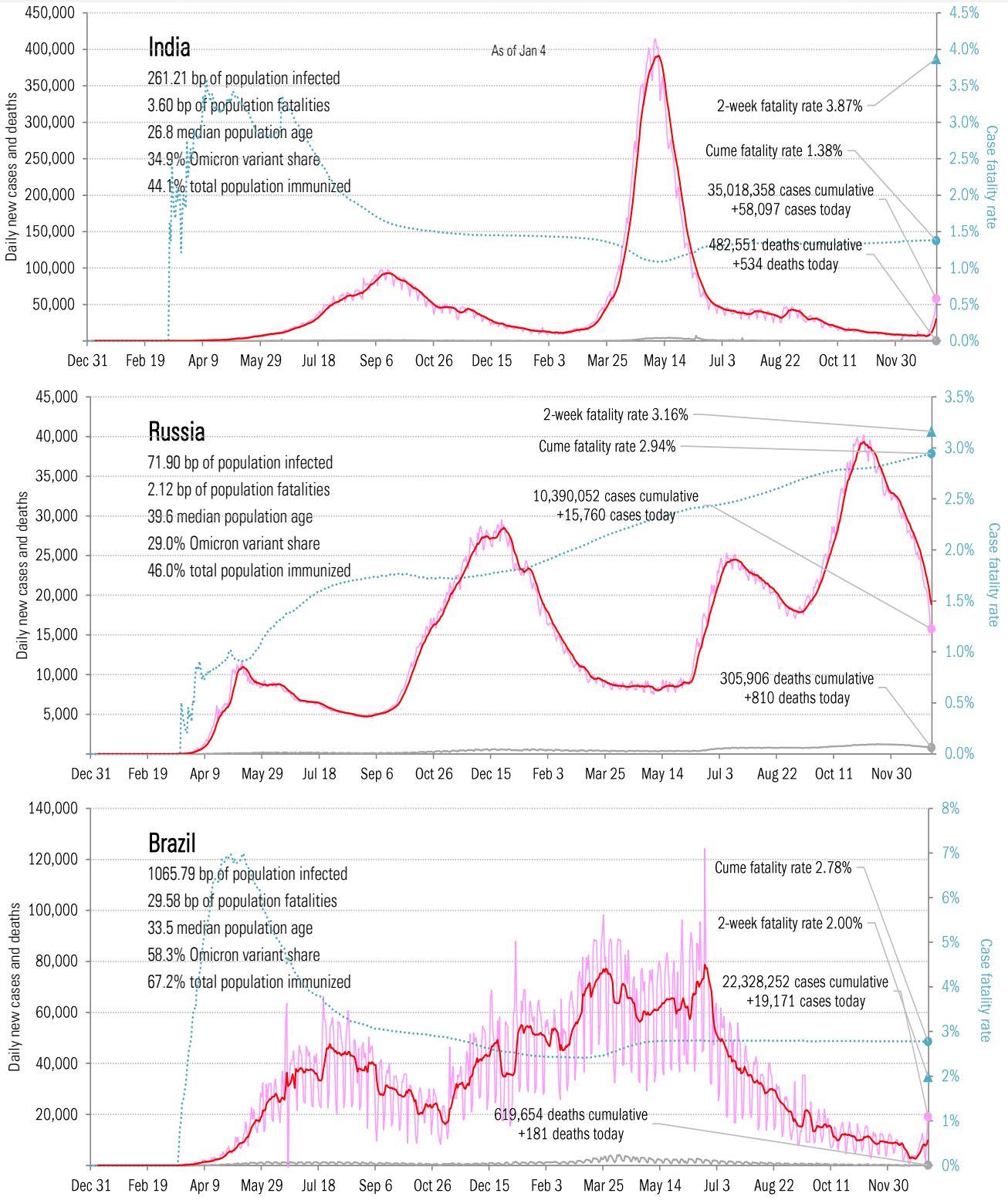
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

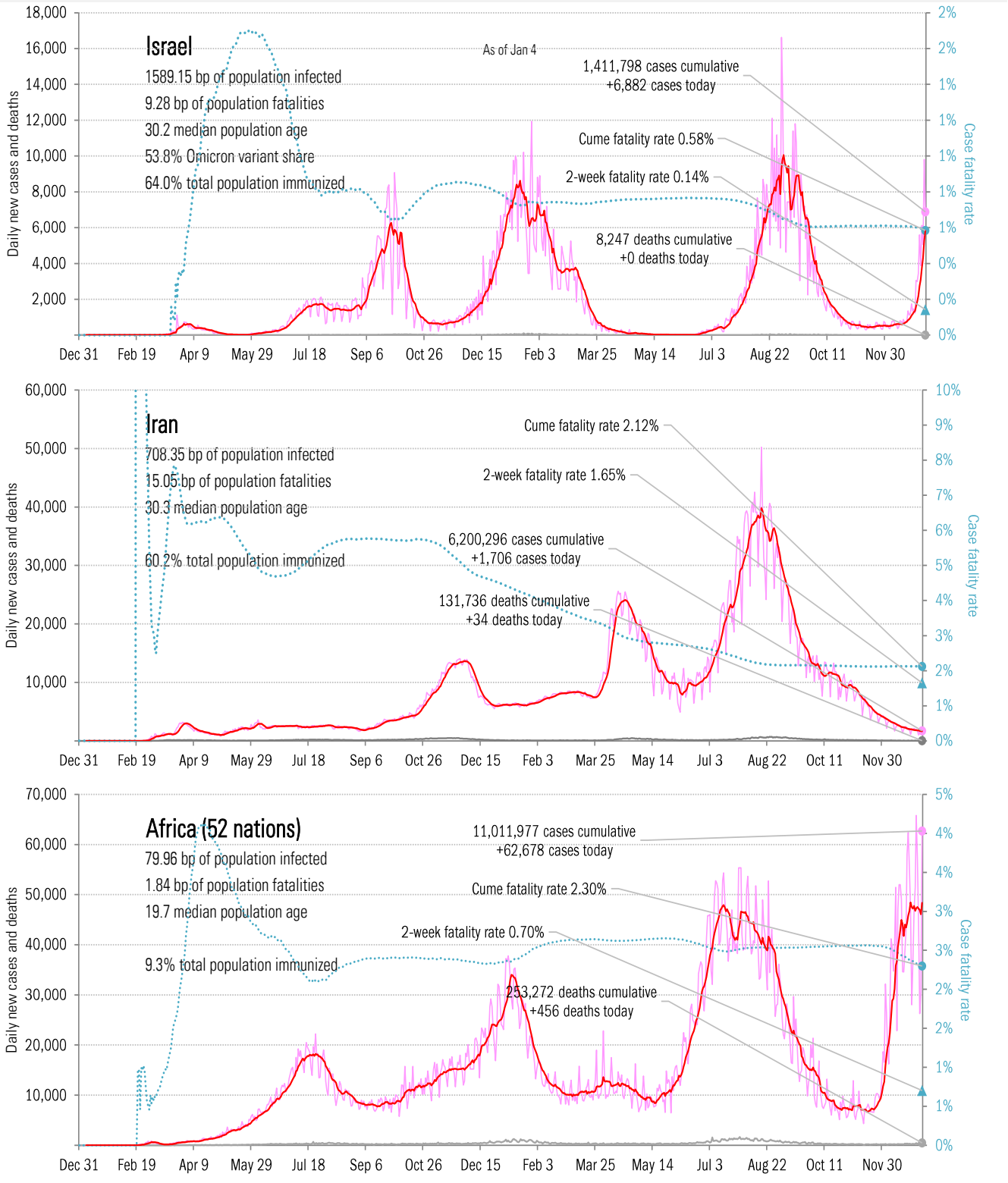
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

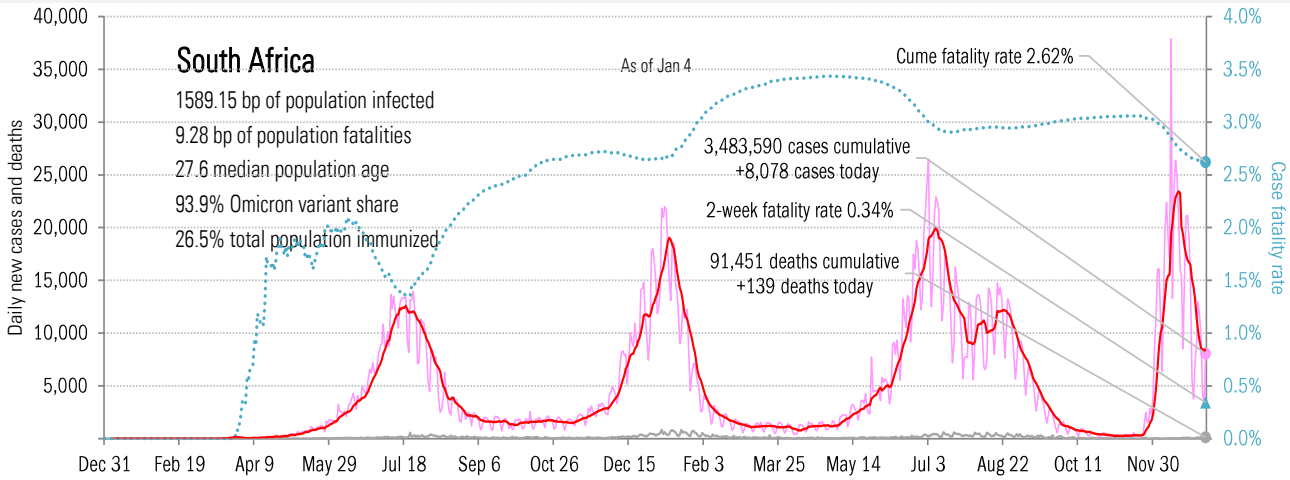
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations