Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

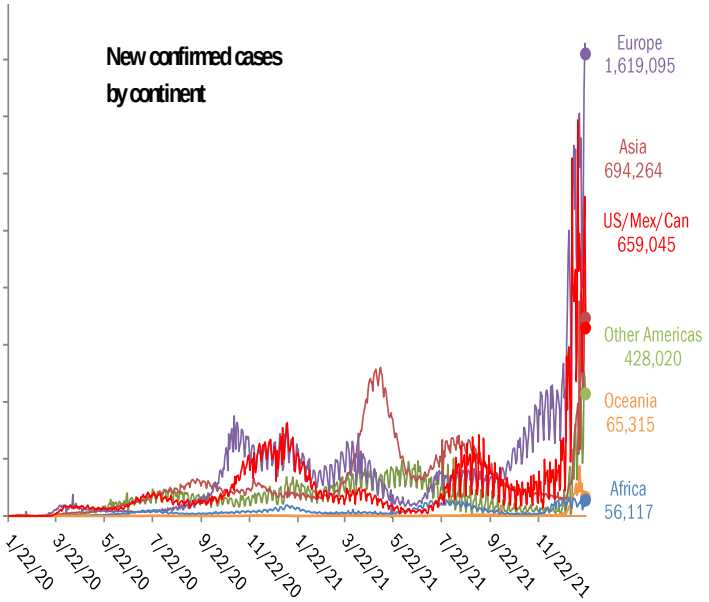
Friday, January 21, 2022

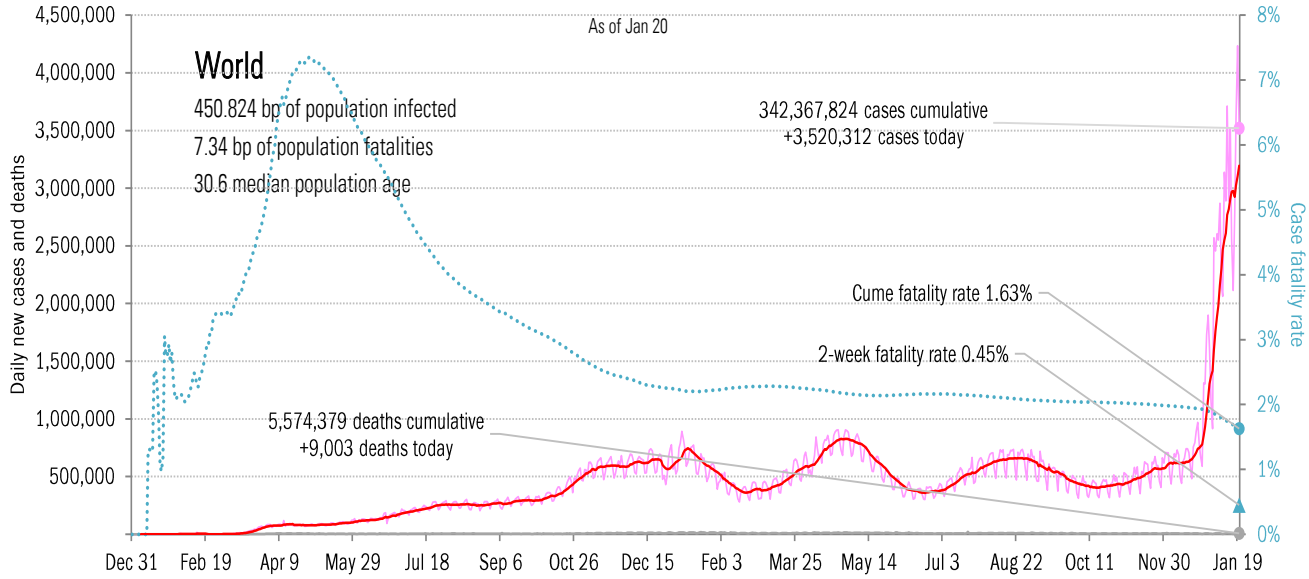
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	643,270	United States	2,479
France	427,315	India	703
India	347,254	Russia	671
Italy	198,865	France	464
Brazil	169,786	Italy	385
Spain	157,447	Brazil	351
Germany	140,870	United Kingdom	332
Argentina	129,709	Poland	316
United Kingdom	108,124	South Africa	275
Turkey	71,843	Colombia	190
	2,394,483		6,166
World	3,520,312	World	9,003
Top ten	68%	Top ten	68%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

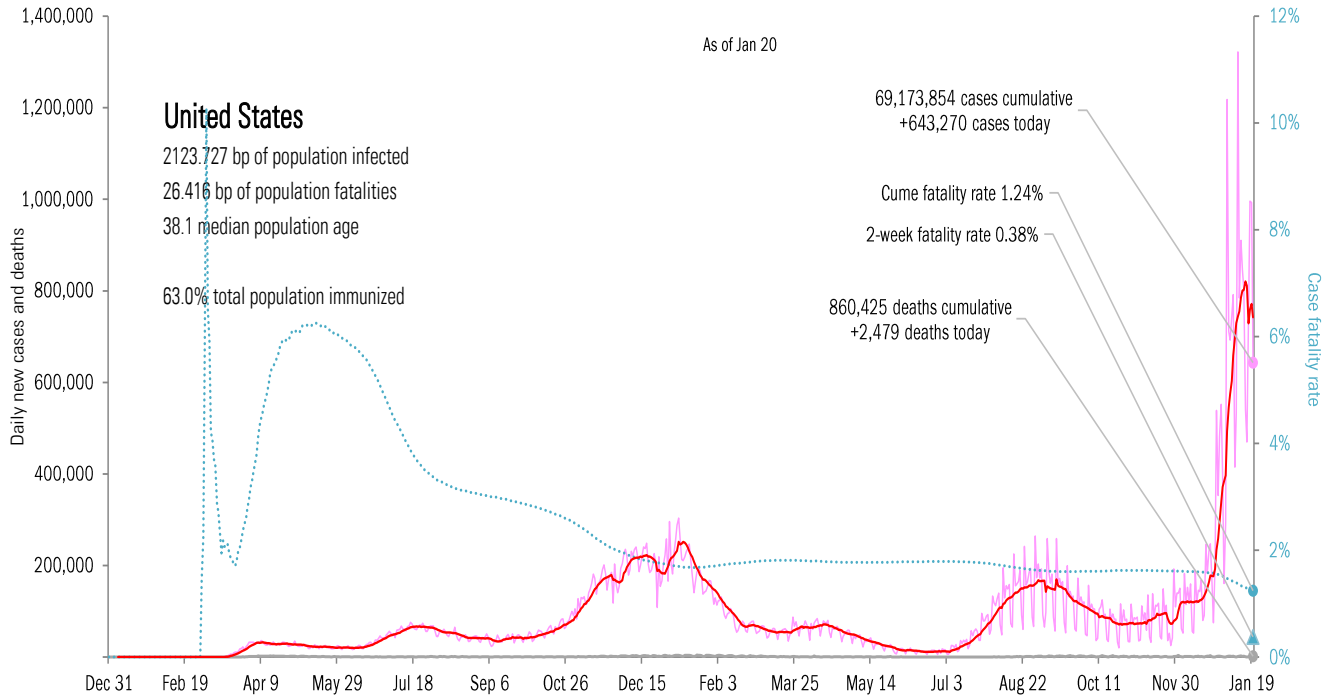
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	68,979	PA	326	KY	277	CA	7,488,875	CA	78,307	TX	437,834	GA	90%	GA	98%
TX	45,800	CA	206	TX	162	TX	5,725,110	TX	77,698	FL	373,702	RI	87%	TX	95%
FL	44,124	NY	201	AR	100	FL	5,108,129	NY	62,873	CA	370,886	MA	87%	AL	93%
NY	30,075	IL	198	OK	90	NY	4,624,257	FL	62,682	NY	222,936	PA	86%	OK	91%
NC	29,580	TX	183	SC	67	IL	2,732,720	PA	39,093	GA	186,033	MN	85%	NV	91%
IL	23,246	NJ	161	TN	62	PA	2,523,956	GA	32,206	OH	173,309	NH	85%	MO	89%
GA	22,684	IN	137	KS	47	OH	2,460,869	IL	32,141	PA	159,693	WA	85%	MS	89%
OH	21,664	GA	134	AZ	37	GA	2,211,004	MI	31,275	IL	142,624	MD	85%	IN	89%
WI	18,127	WA	109	NE	33	NC	2,177,357	OH	31,245	MI	128,104	AZ	84%	NM	88%
AZ	17,724	MA	87	ID	30	MI	2,082,983	NJ	30,476	KY	127,253	WV	83%	MA	87%
	322,003		1,742		905		37,135,260		477,996		2,322,374				
All states	643,270		2,479		-684	All states	69,173,854		860,425		4,189,492	All states	70%		67%
Top ten	50%		70%		-132%	Top ten	54%		56%		55%	Median	79%		84%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TN	-112,629	MI	-566	CA	-609	VA	+110 bp
MI	-98,927	FL	-178	FL	-295	AK	+90 bp
CA	-51,740	KS	-130	PA	-290	WA	+70 bp
KS	-38,474	MA	-121	PR	-231	GA	+60 bp
MN	-33,191	MO	-121	OH	-162	KS	+60 bp



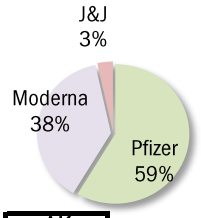
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	545,364,302				+1.448 million
Boosters	83,592,893				+0.765 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	257,473,955	77%	215,877,880	65%	+0.336 million
Age 12 to 17	15,807,347	66%	13,190,798	55%	+0.027 million
Age 18 to 64	173,988,697	86%	146,278,369	72%	+0.184 million
Age 65 and over	58,408,325	100%	49,991,623	91%	+0.049 million

Immunity	Full	Partial
US	63.0%	75.3%
UK	70.5%	76.5%
France	75.6%	79.4%
Spain	81.8%	87.0%
Germany	72.5%	74.7%
Italy	75.5%	82.3%
Australia	77.9%	82.3%
Israel	65.1%	71.9%
Canada	78.1%	84.5%
Japan	79.0%	80.4%
Africa	10.1%	15.3%
India	48.2%	66.2%
Brazil	69.2%	78.4%
China	84.5%	87.5%

Global data differs due to sources, timing



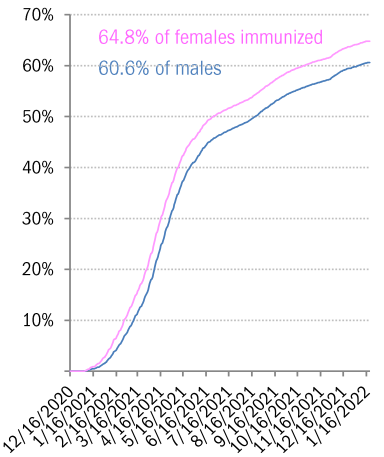
State
At least partial immunity as % population
Full immunity as % population

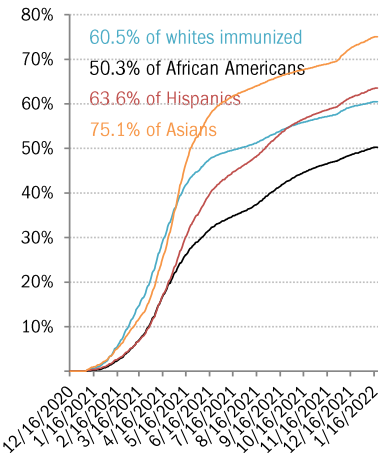
Best
Middle
Worst

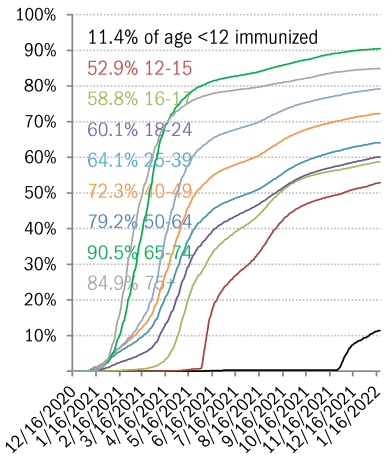
As of Jan 21

AK					WI					ME
67.5%					69.8%					88.0%
58.0%					63.1%					77.1%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
78.1%	54.0%	63.4%	63.6%	73.0%	74.8%	64.8%		86.7%	91.5%	95.0%
69.5%	47.6%	55.0%	53.7%	66.6%	65.6%	57.8%		73.4%	78.9%	68.4%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
75.5%	72.2%	56.8%	73.2%	66.3%	59.4%	61.9%	81.1%	86.4%	93.7%	
67.4%	57.9%	49.5%	58.4%	60.0%	52.9%	56.3%	65.2%	71.9%	75.9%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
85.8%	69.0%	76.8%	68.2%	64.1%	64.2%	63.2%	82.6%	82.8%	91.7%	93.4%
68.2%	60.2%	67.7%	61.1%	54.0%	55.3%	55.9%	70.2%	72.0%	76.0%	78.1%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	69.4%	83.5%	71.8%	64.6%	60.3%	80.0%	65.2%	92.1%	79.4%	
	58.3%	67.8%	58.6%	52.3%	52.4%	58.0%	54.5%	69.4%	65.7%	
			OK	LA	MS	AL	GA			
			68.5%	59.1%	57.7%	60.4%	63.2%			
			54.7%	51.4%	49.7%	48.9%	52.4%			
HI			TX					FL		PR
84.2%			69.0%					76.6%		91.4%
75.4%			58.3%					64.6%		78.5%

The demographics of US vaccination



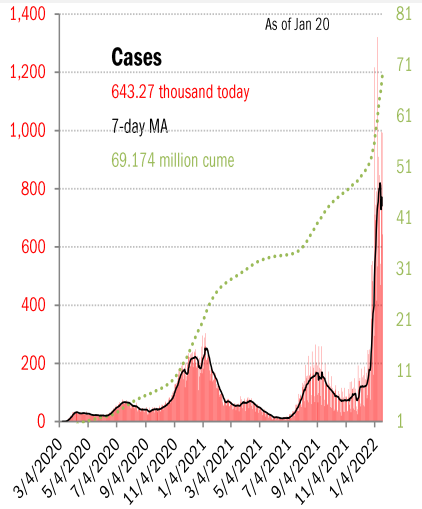


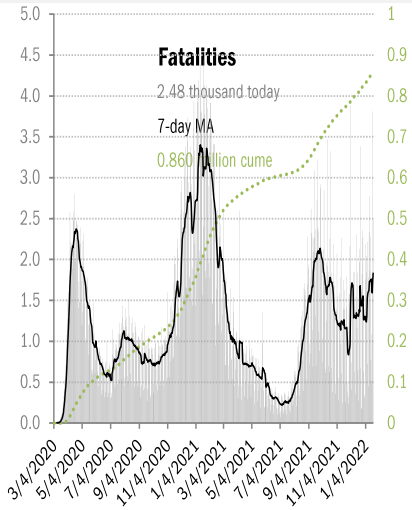


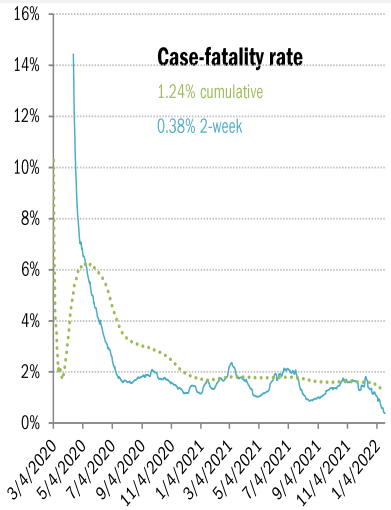
Source: CDC, CDC, Our World in Data, TrendMacro calculations

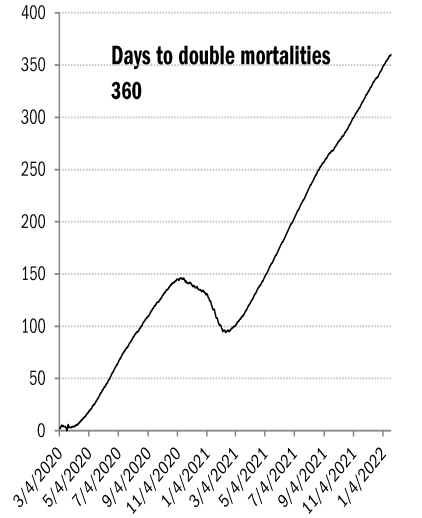
US deep-dive

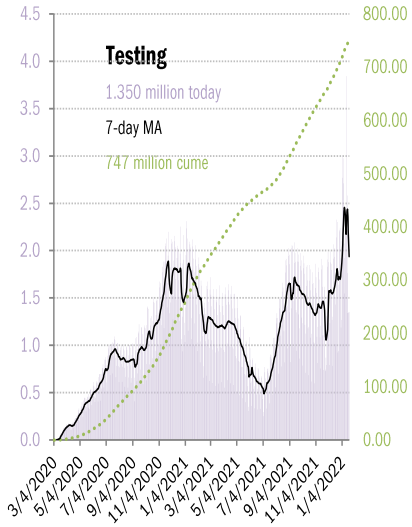
National and state-by-state data do not line up because of different sources

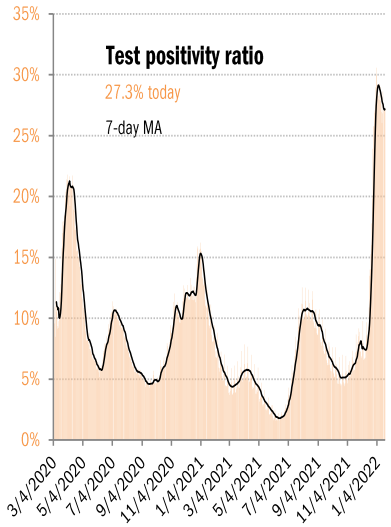


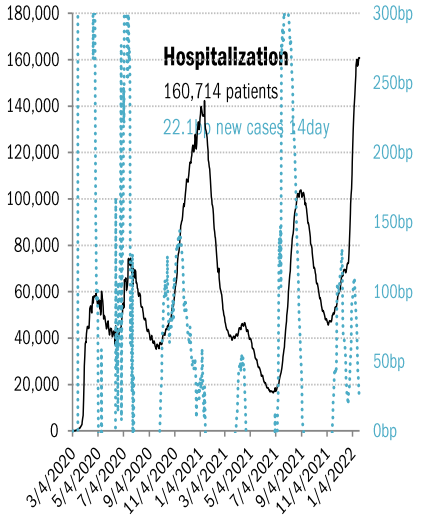


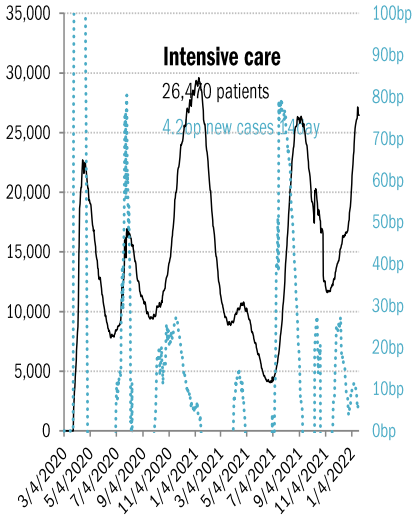


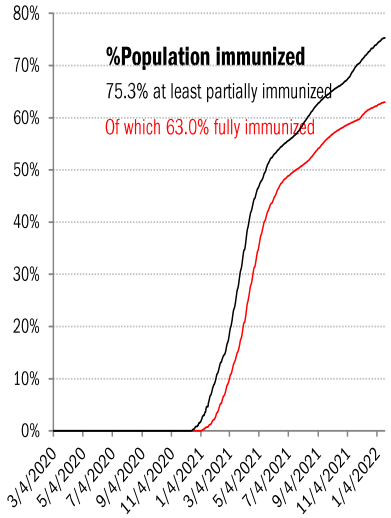












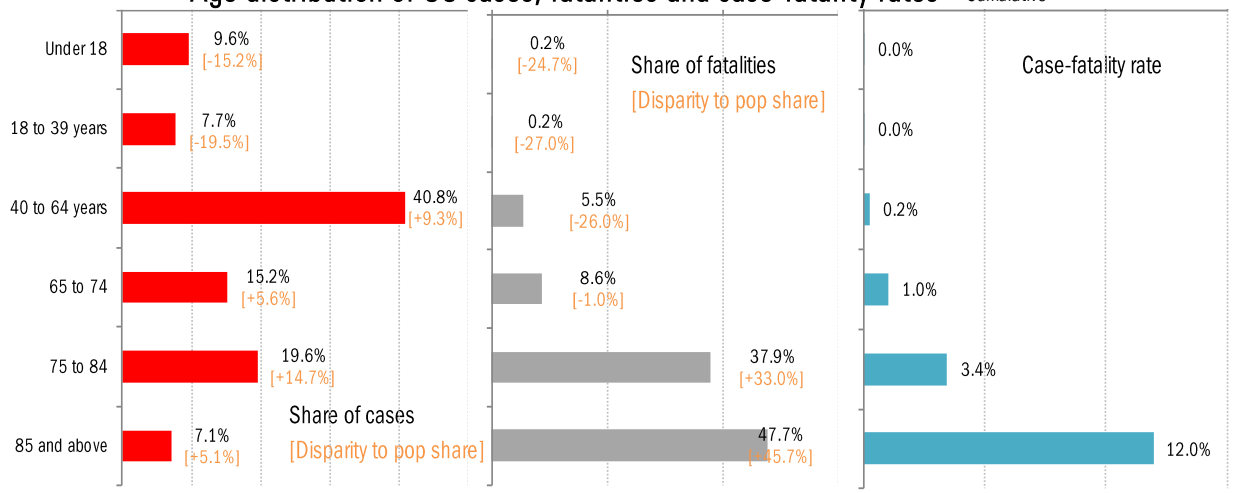
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

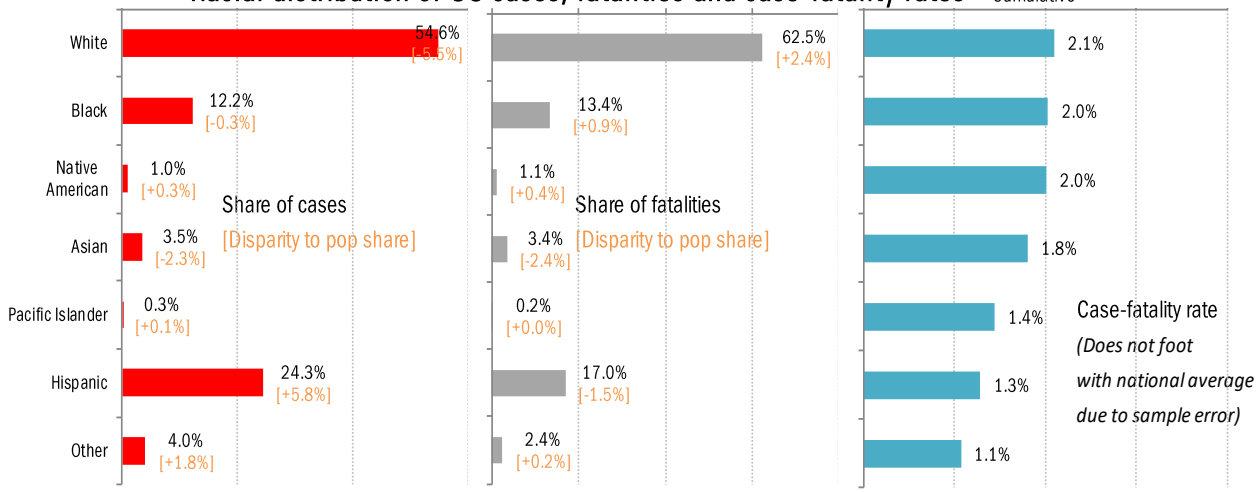
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



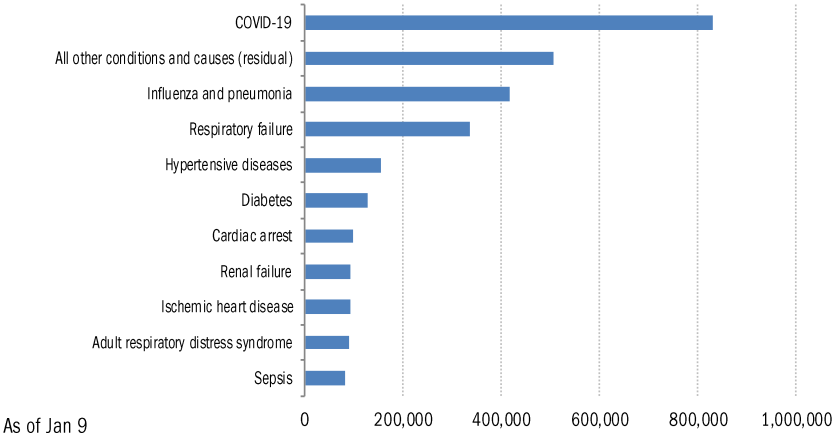
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jan 9

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.

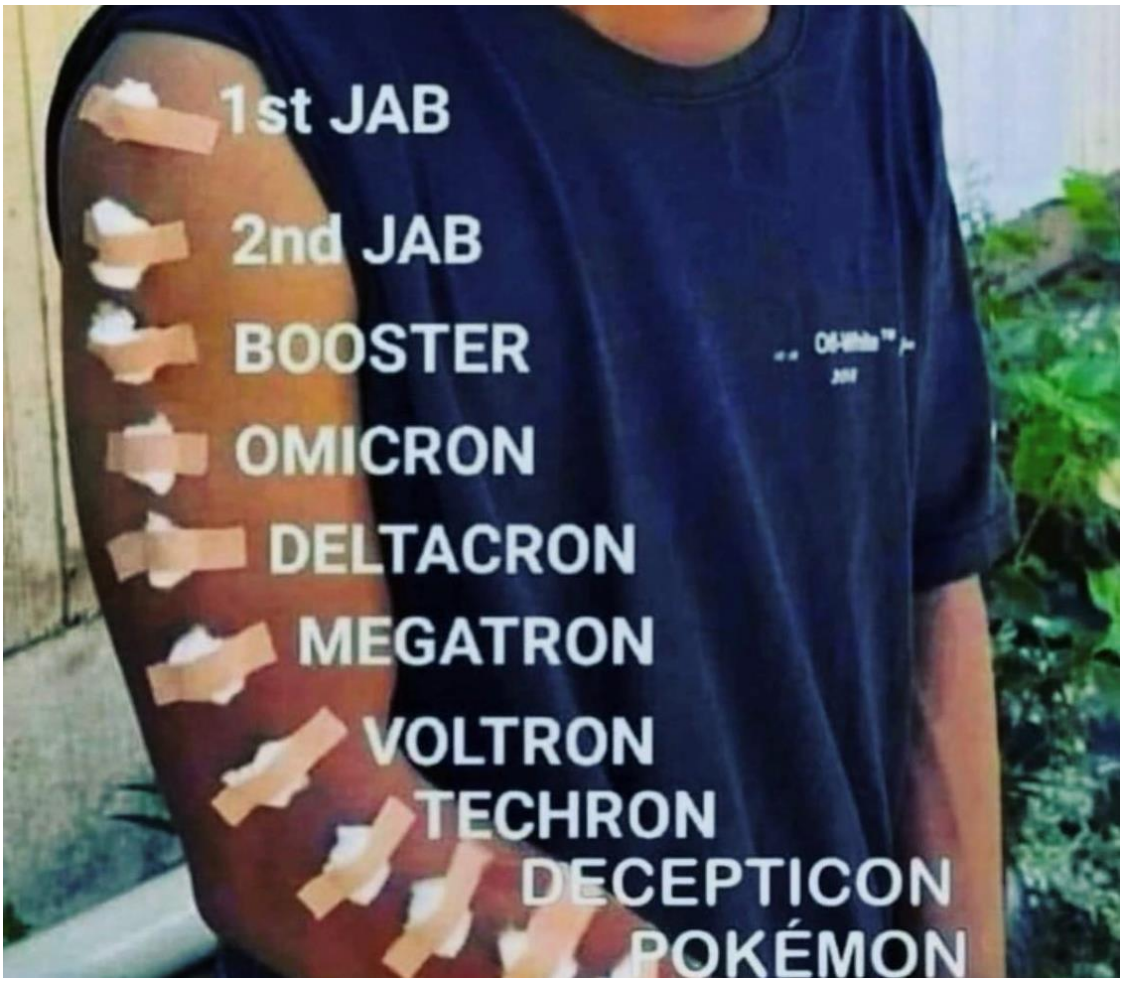
Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

New research suggests COVID was less deadly than thought in first year of pandemic
Greg Piper
Just the News
January 18, 2022

Roberts, Sotomayor and Gorsuch Address Reports of Conflicts Over Masks
Adam Liptak
New York Times
January 19, 2022

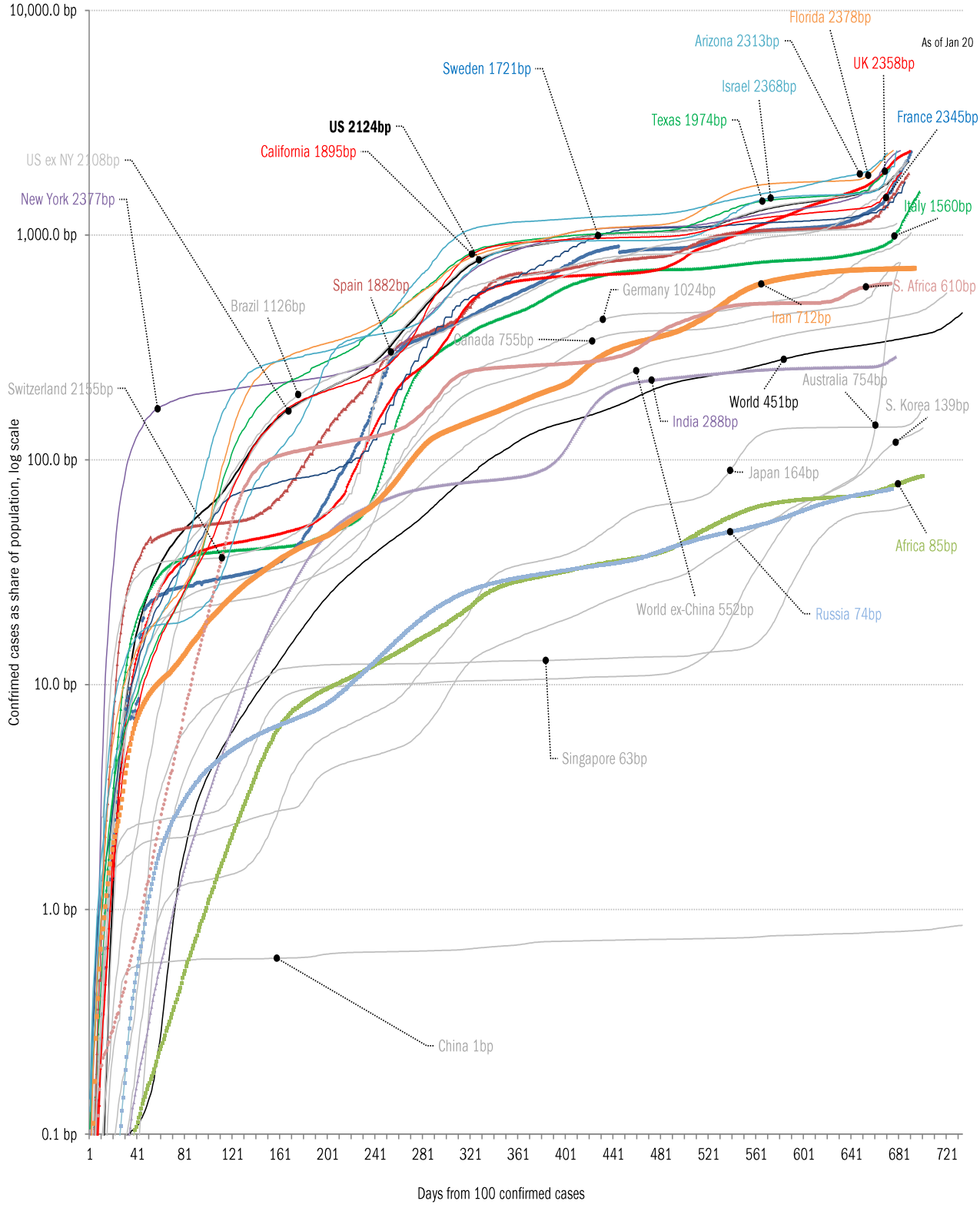
Meme of the day



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

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

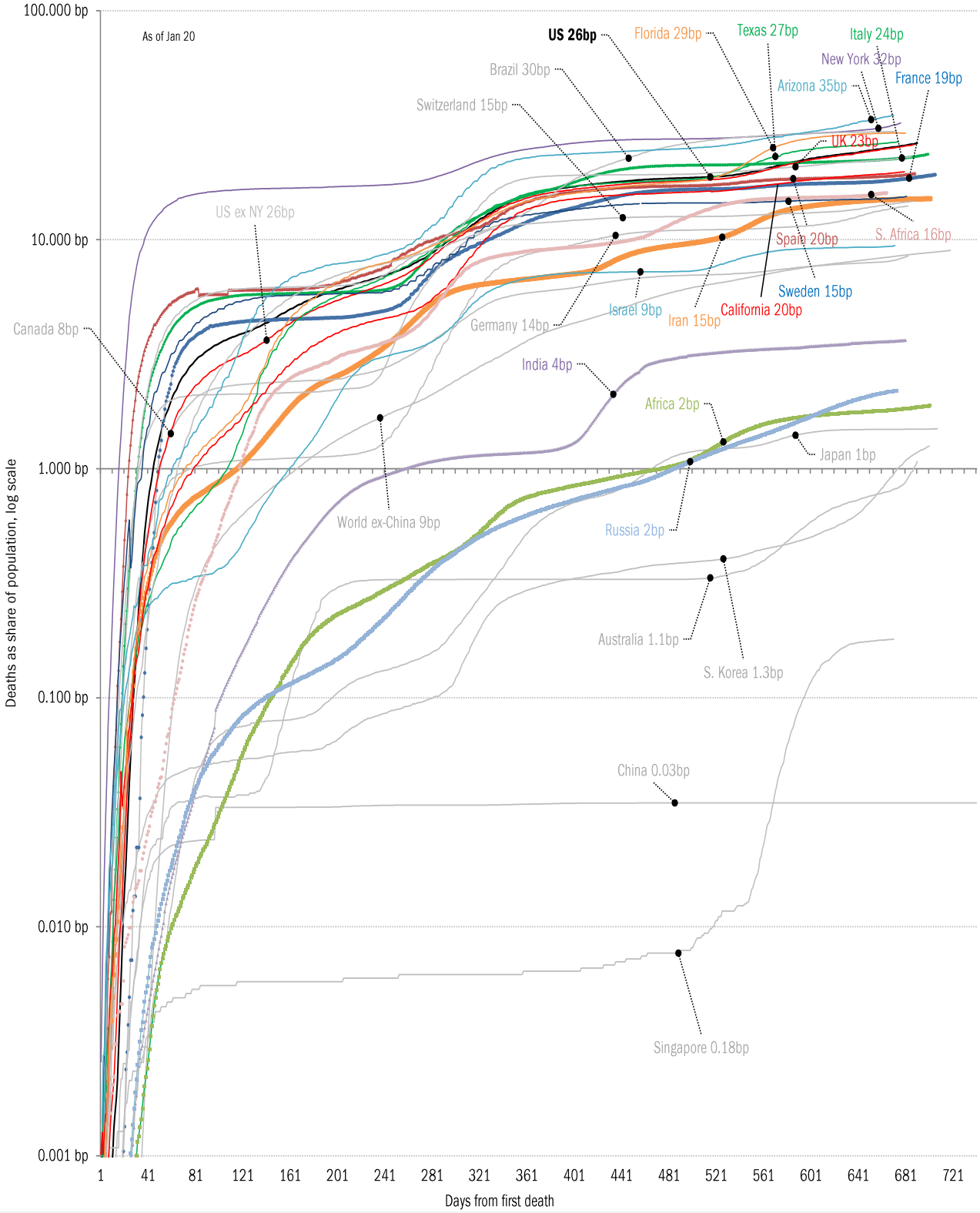
Share of infected population from first day with 100 confirmed cases, log scale



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

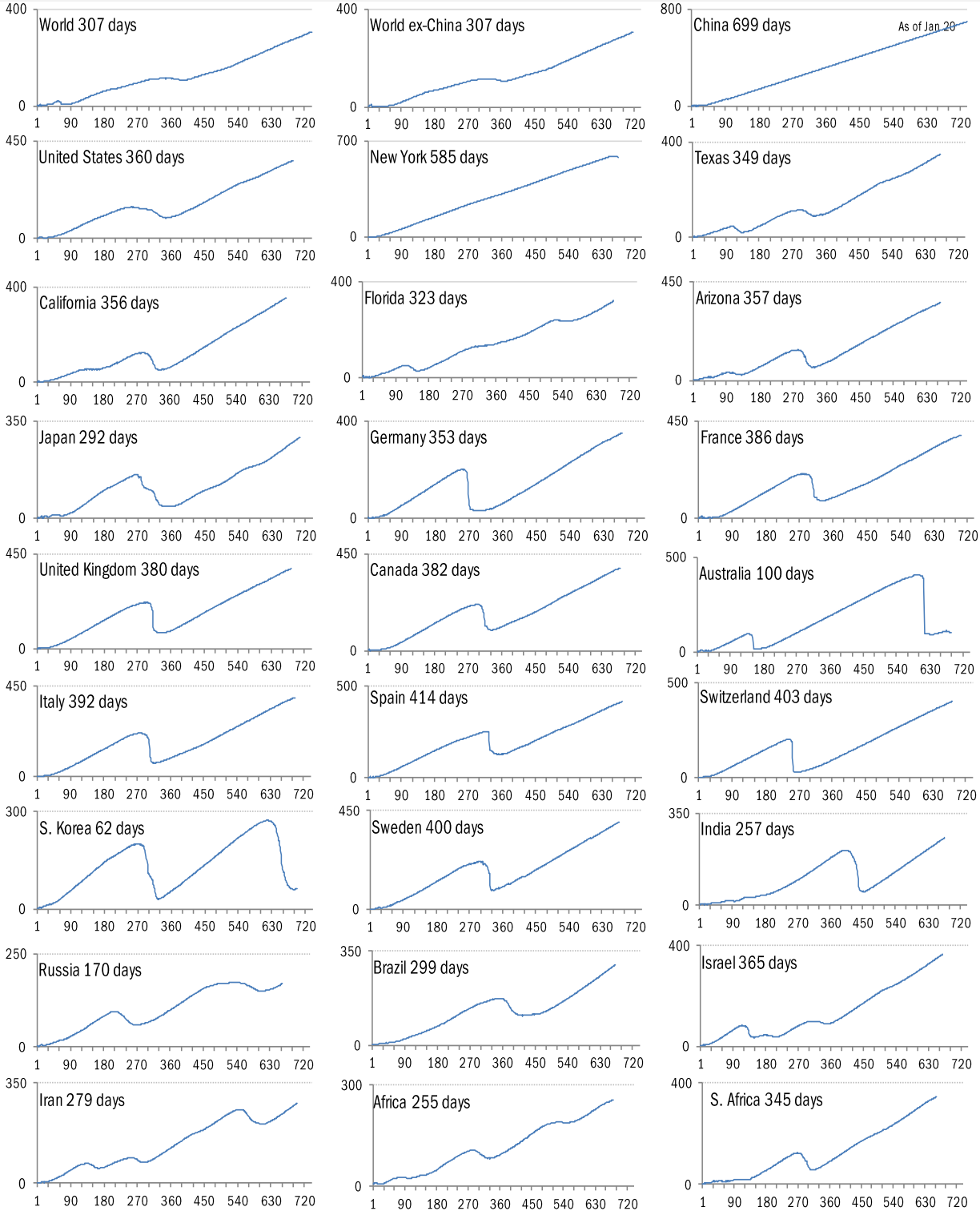


Source: Johns Hopkins, TrendMacro calculations

"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

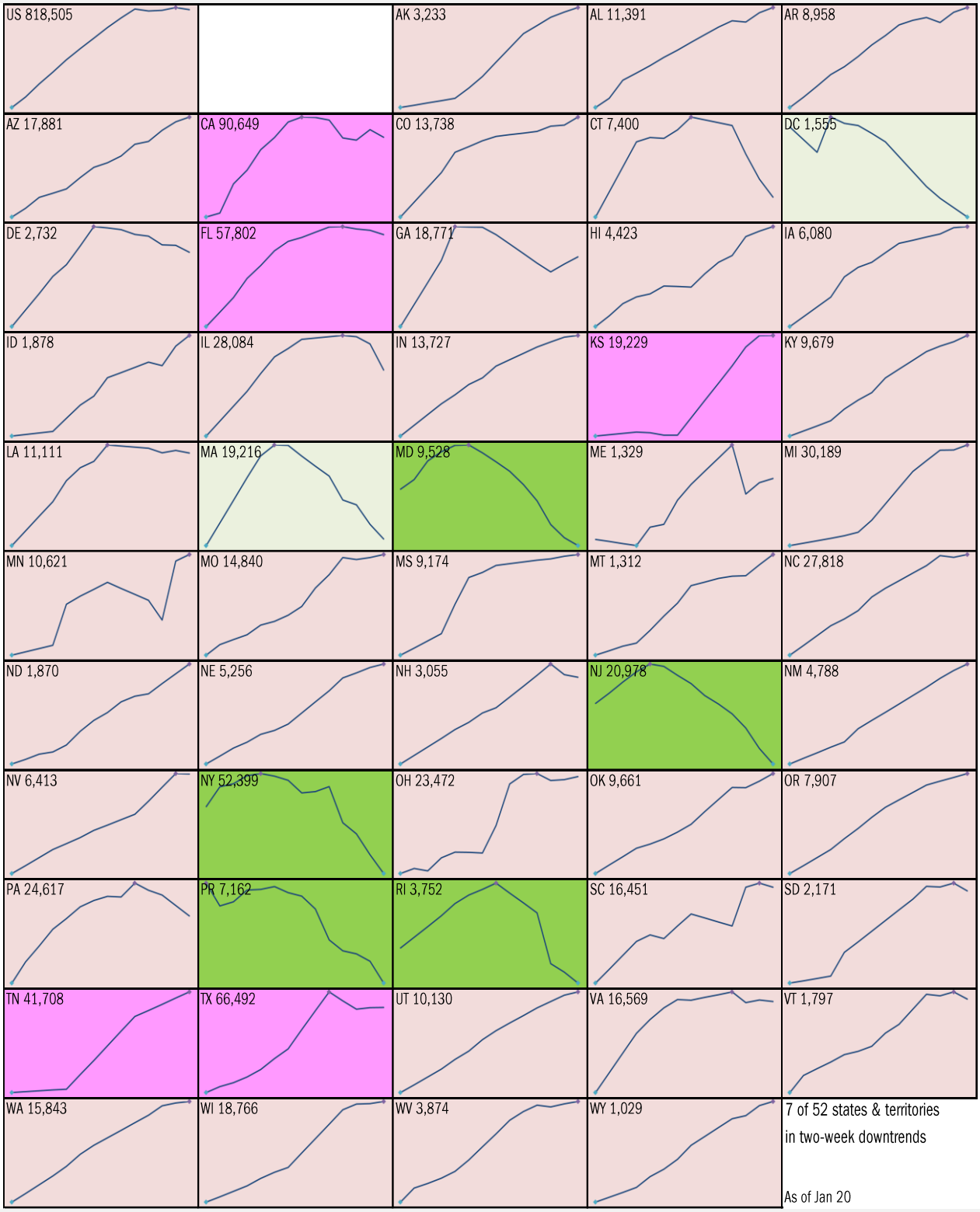


Source: Johns Hopkins, TrendMacro calculations

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

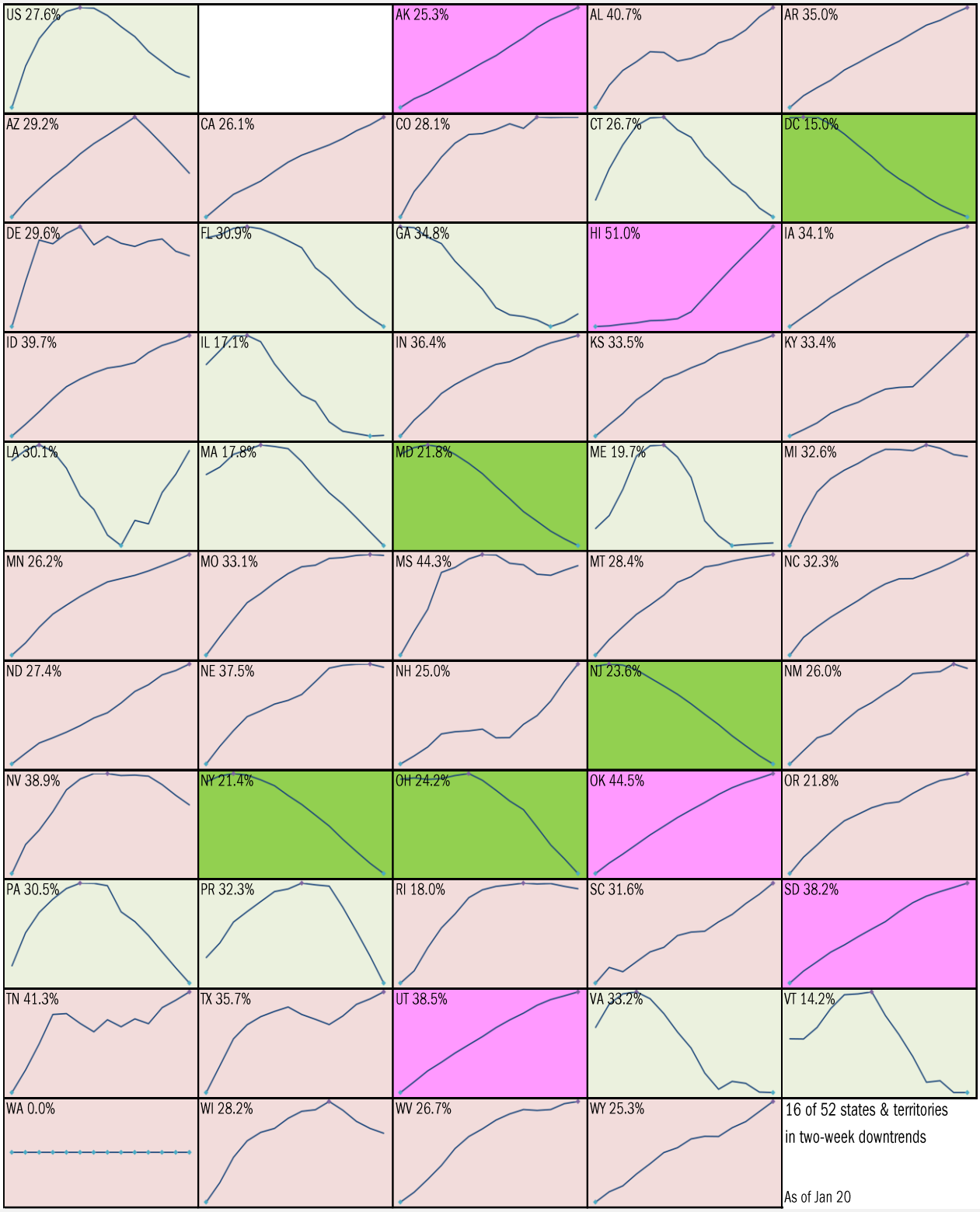


Source: Johns Hopkins, TrendMacro calculations

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

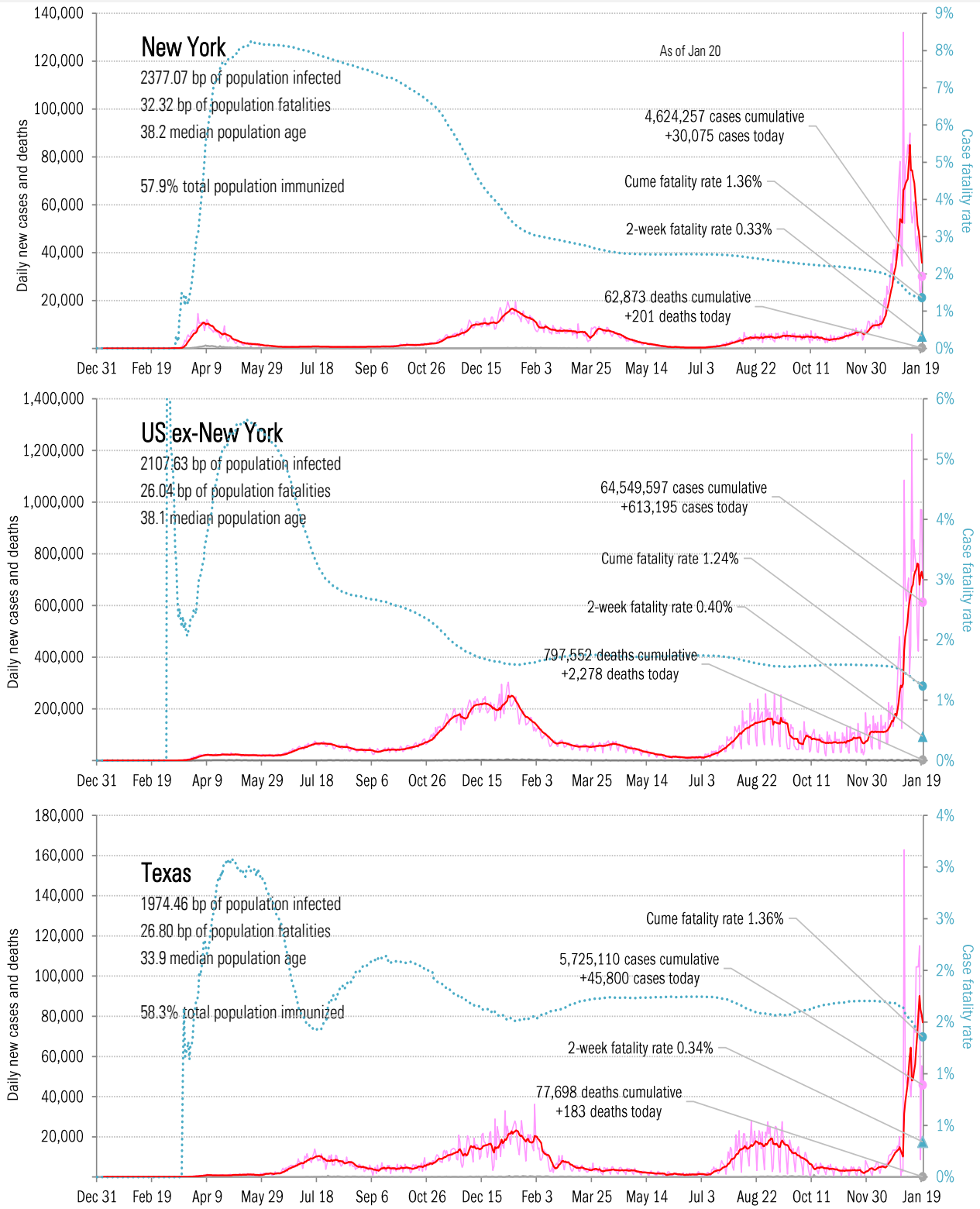
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

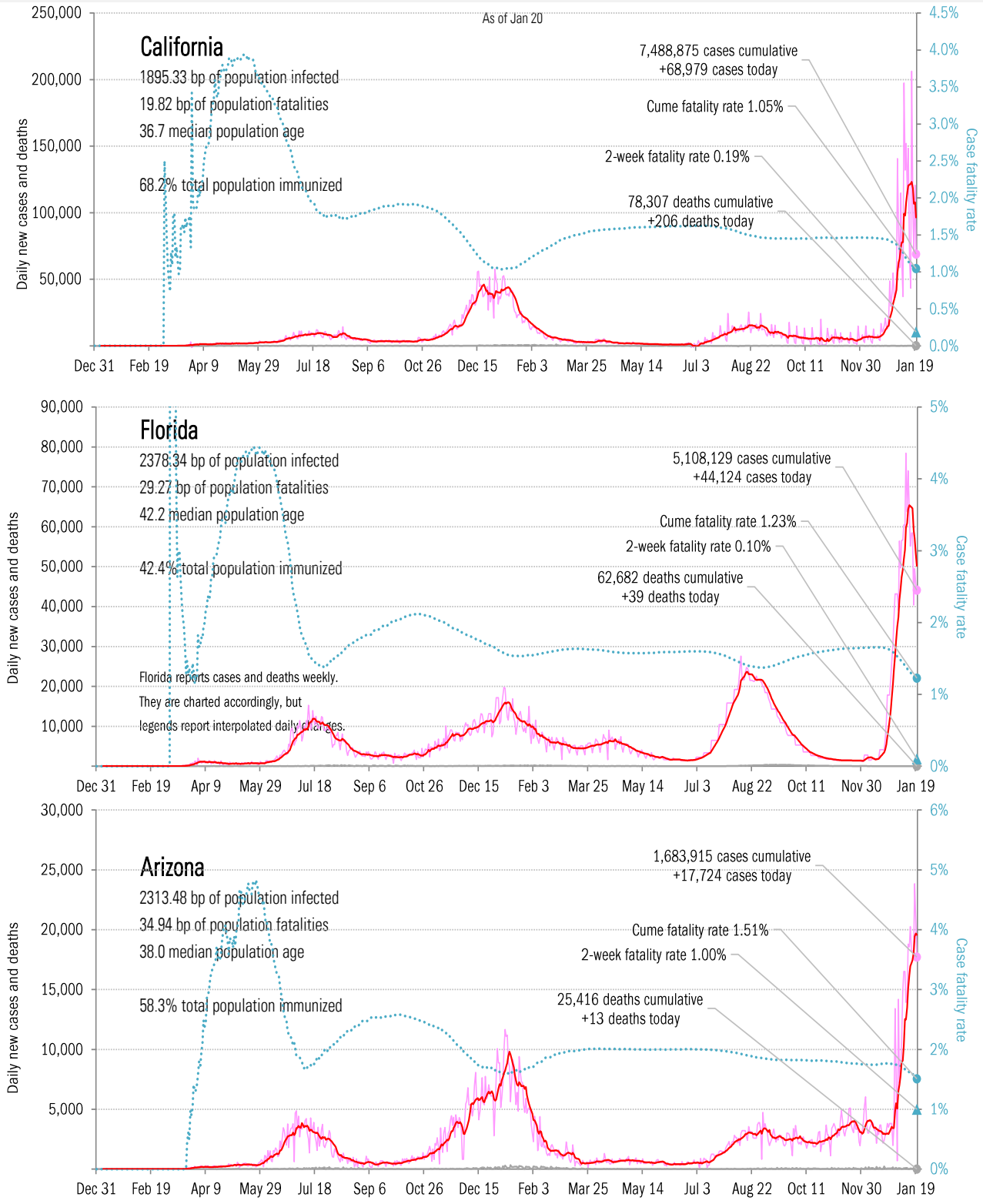
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

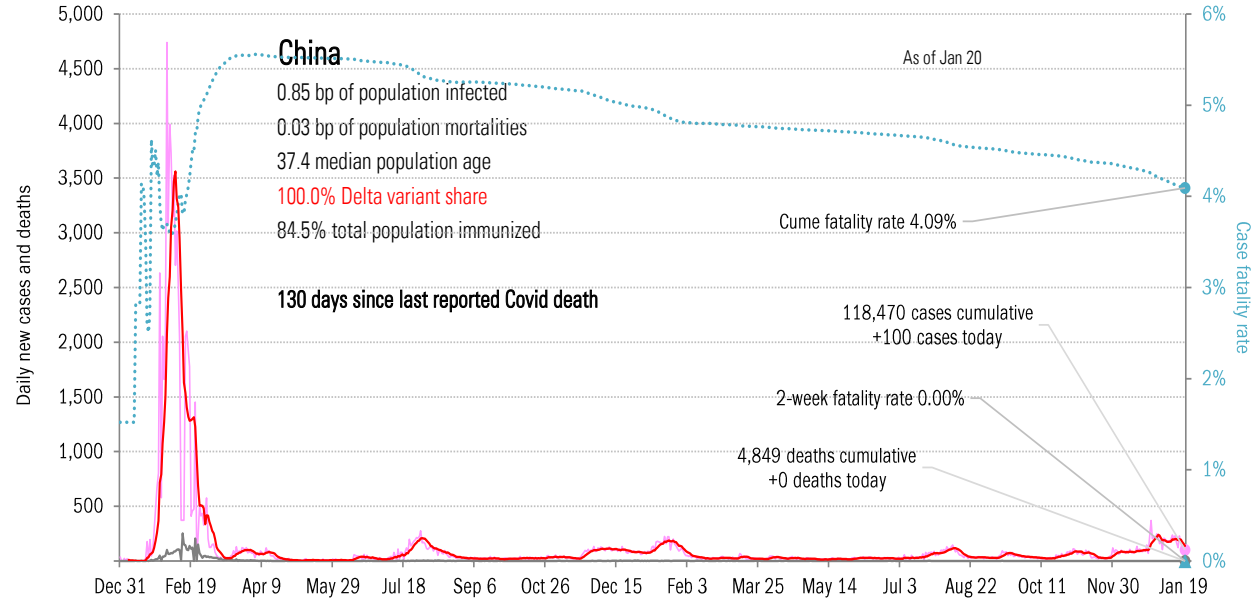
Cases: 7-day average and daily Deaths: Daily

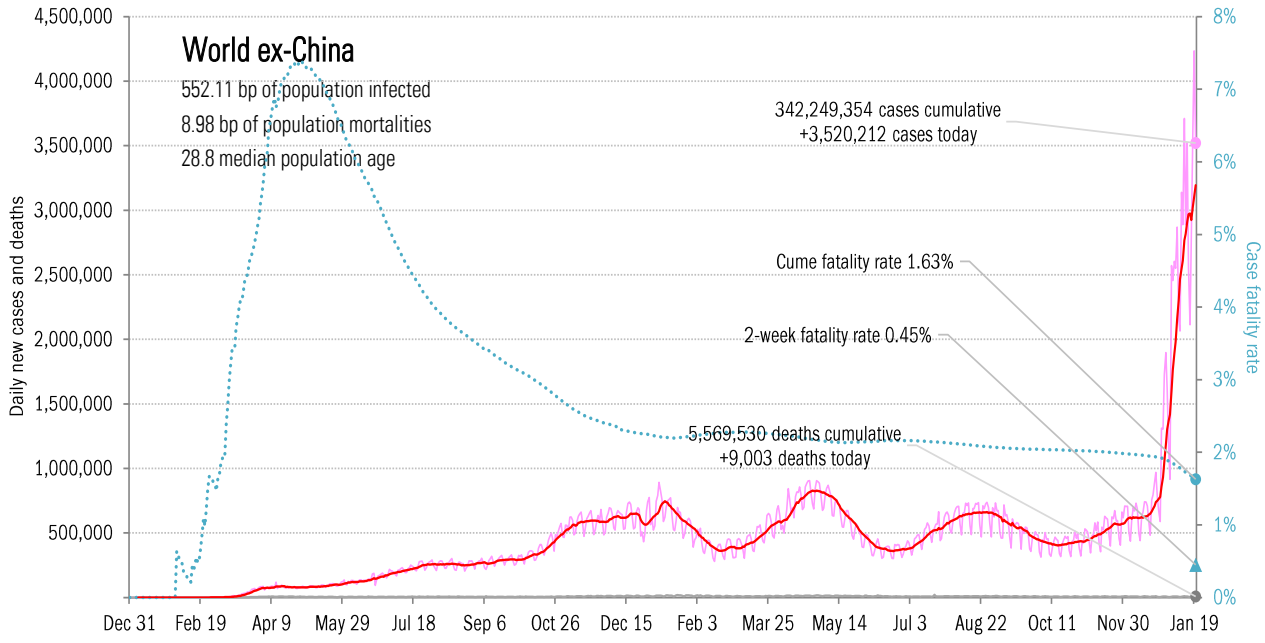


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

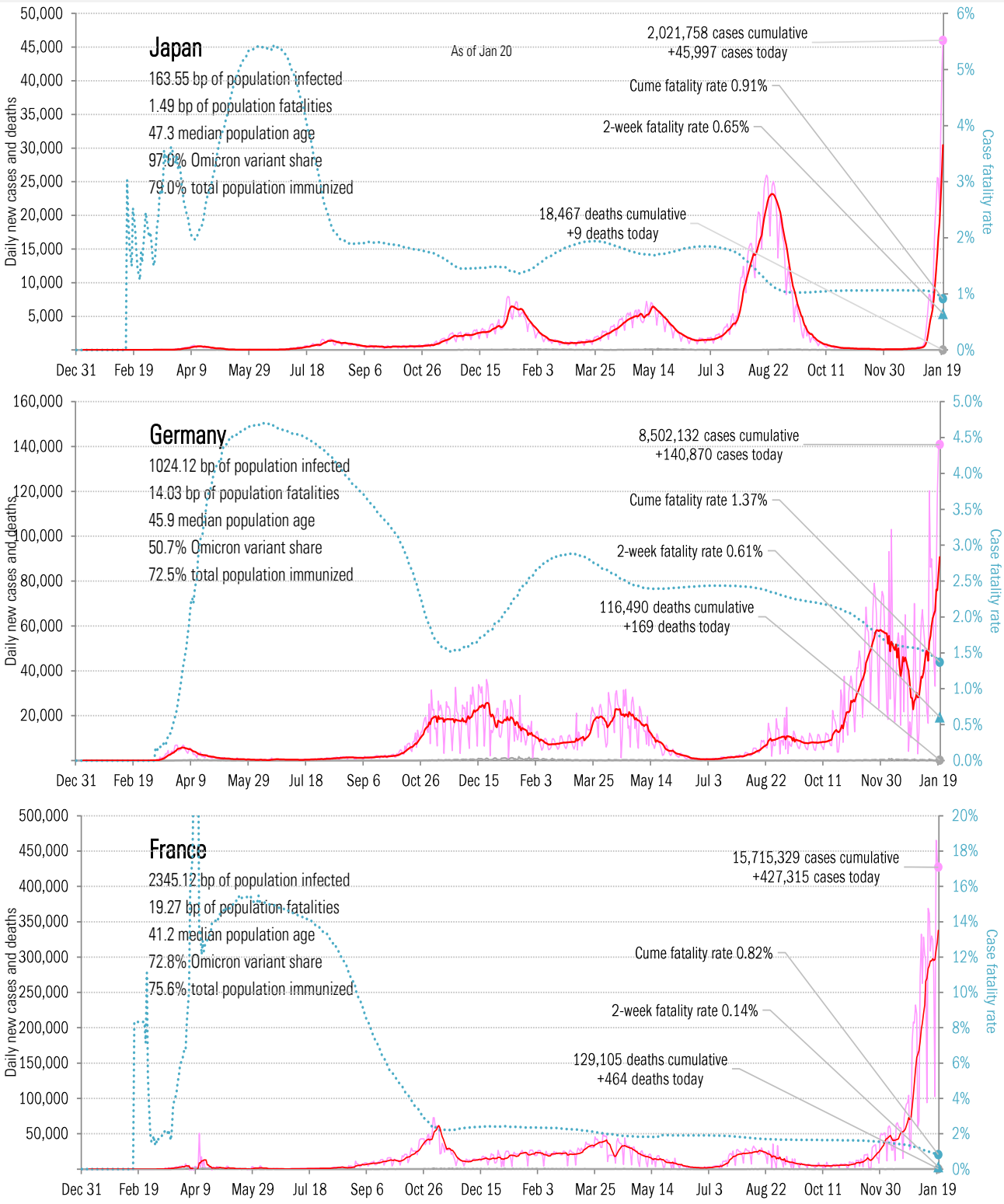




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

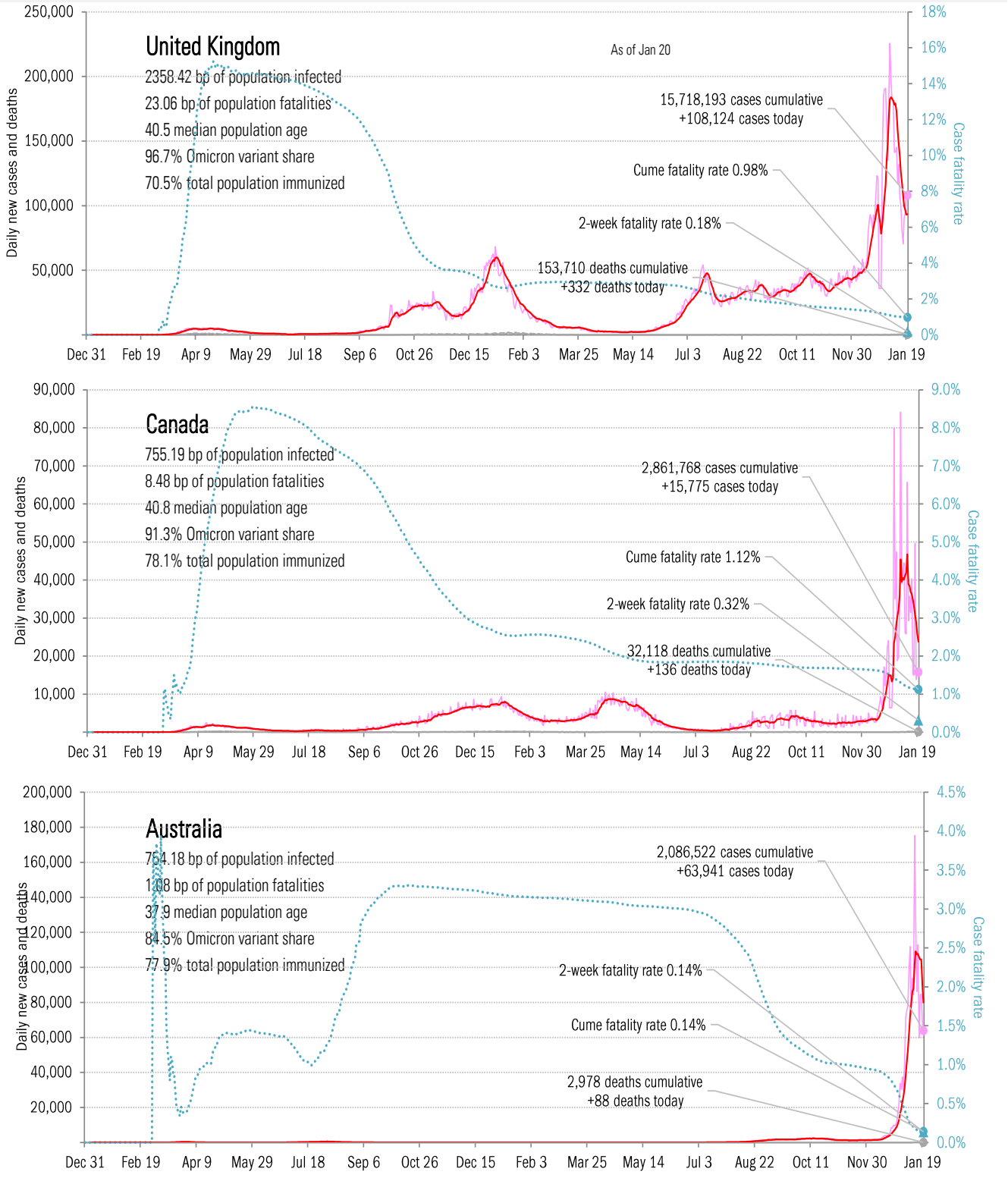
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

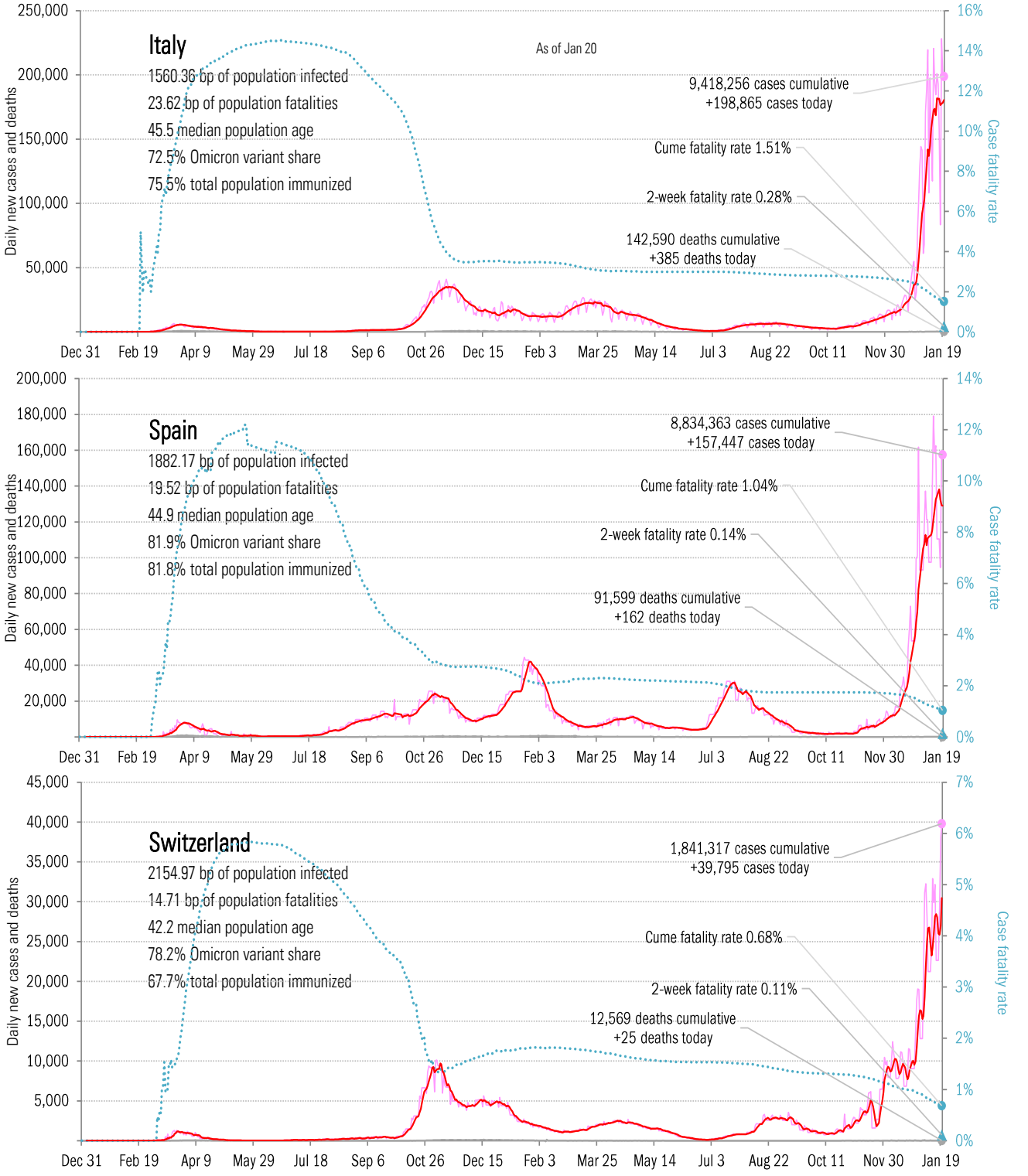
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

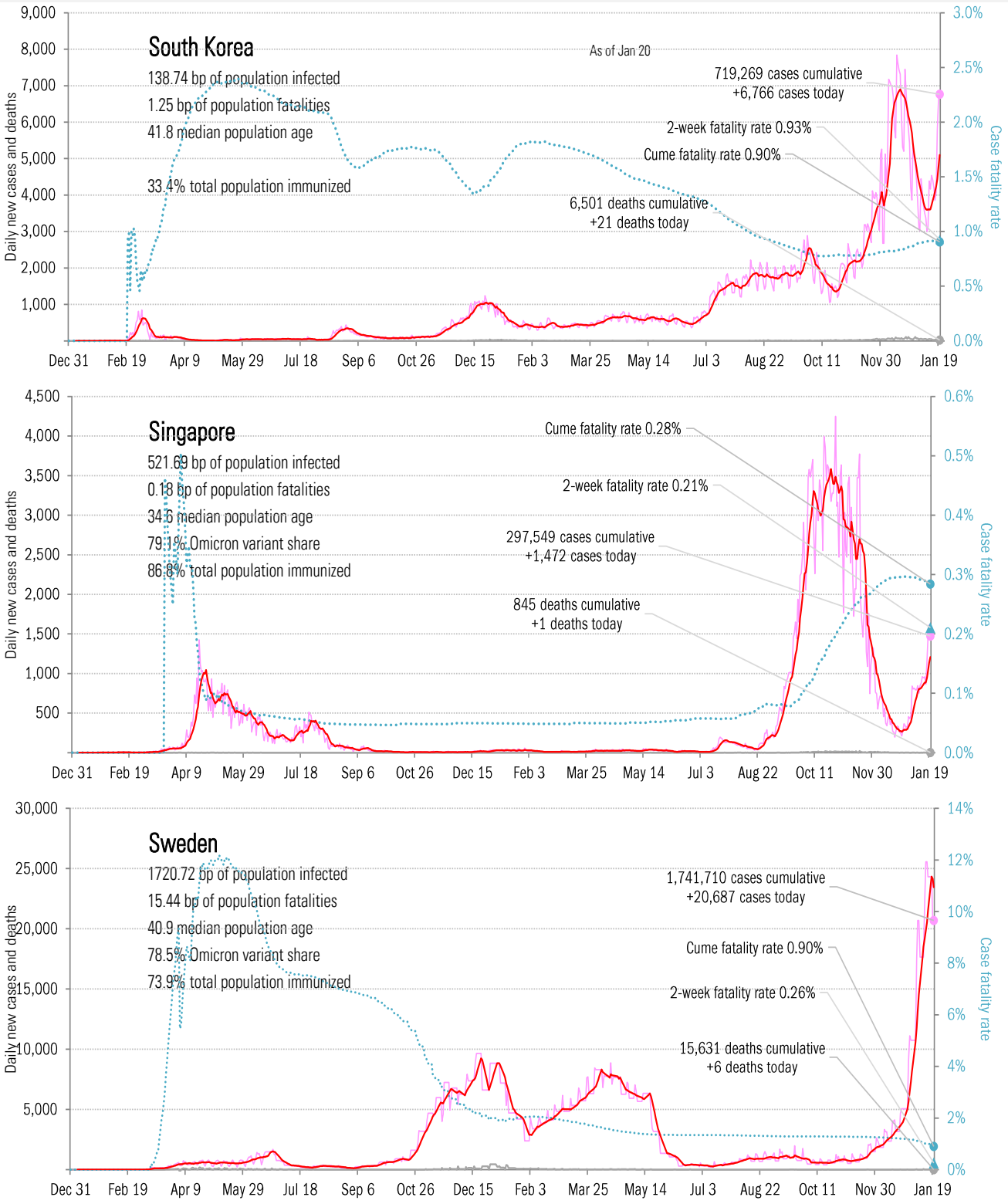
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

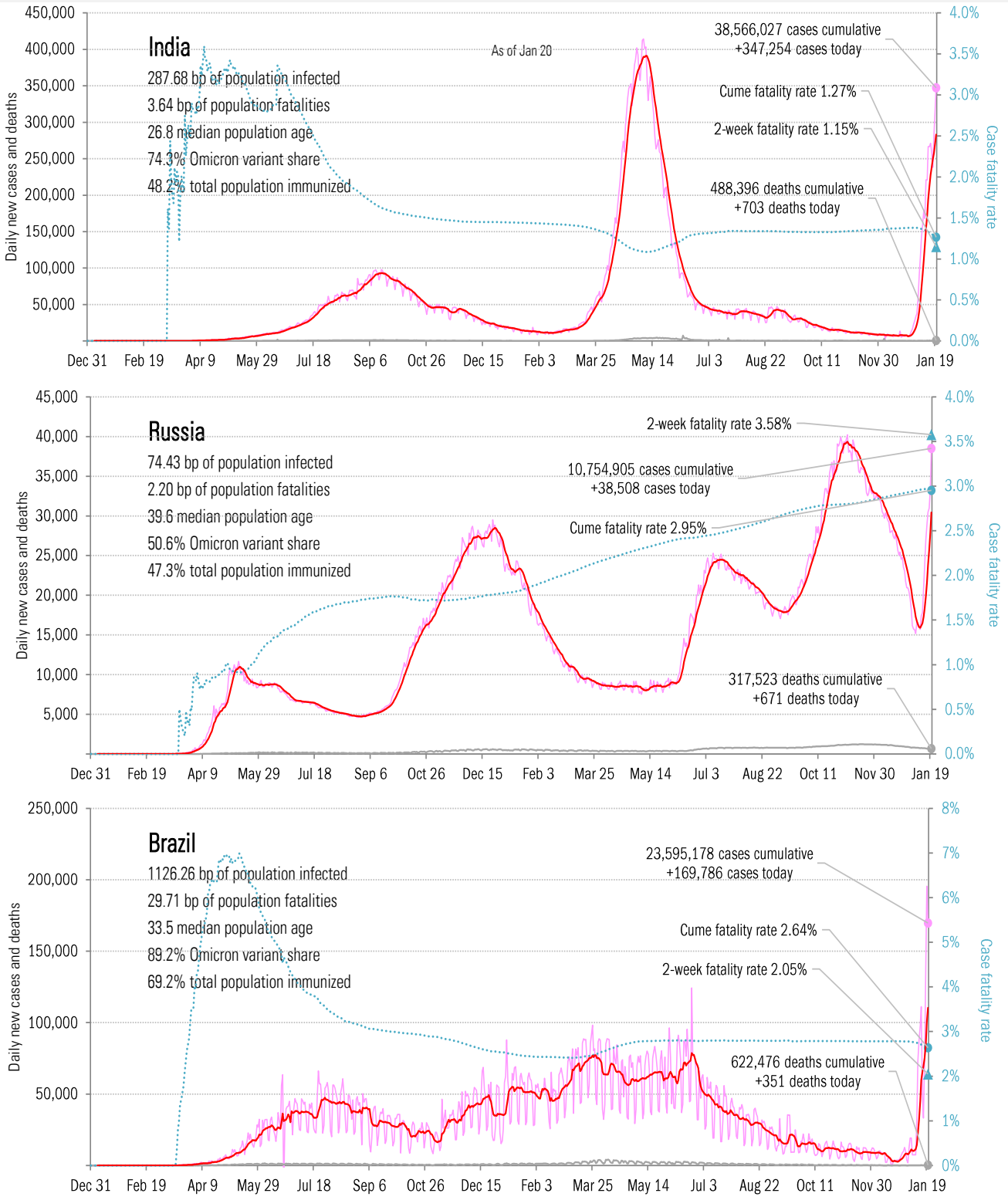
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

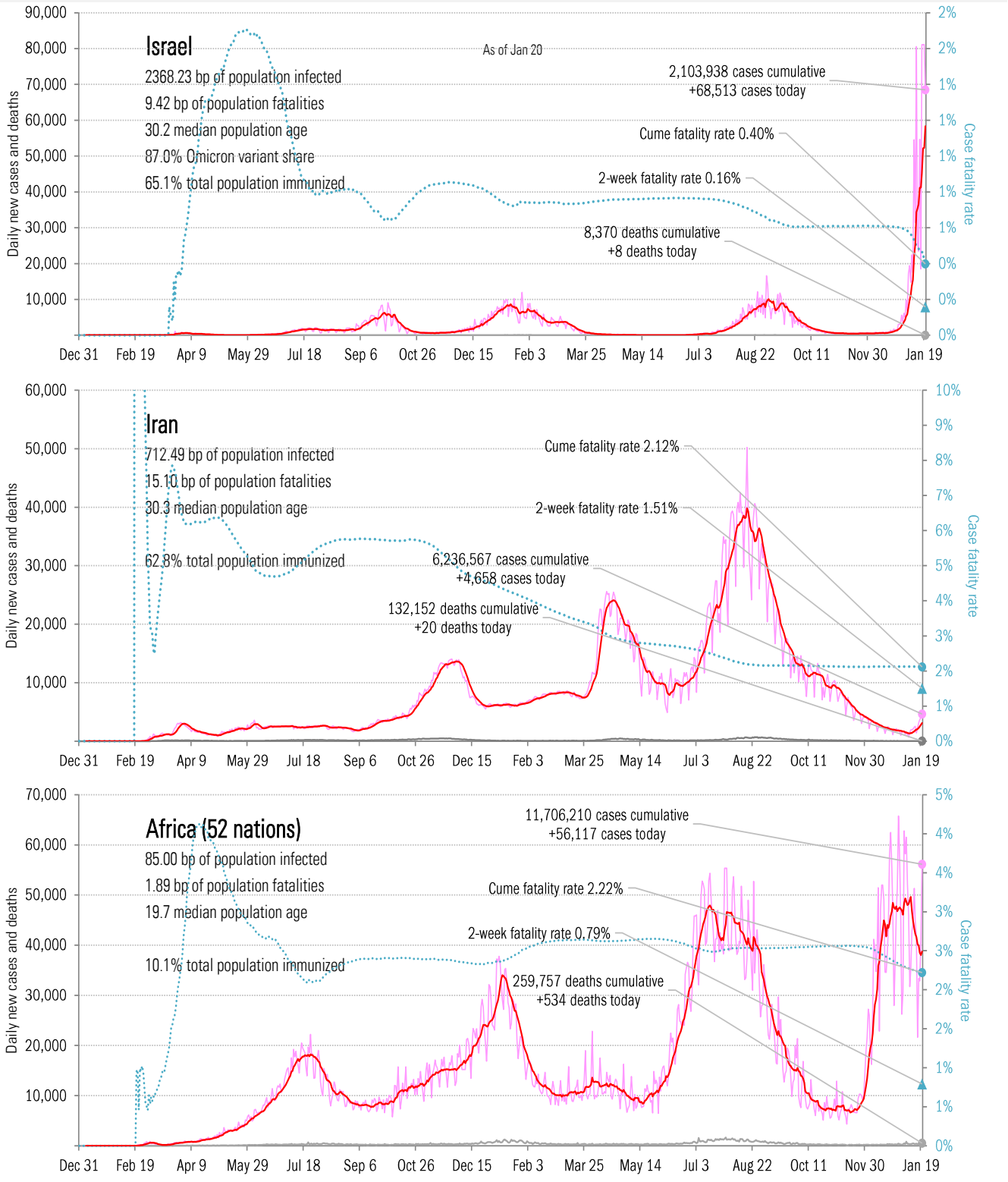
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

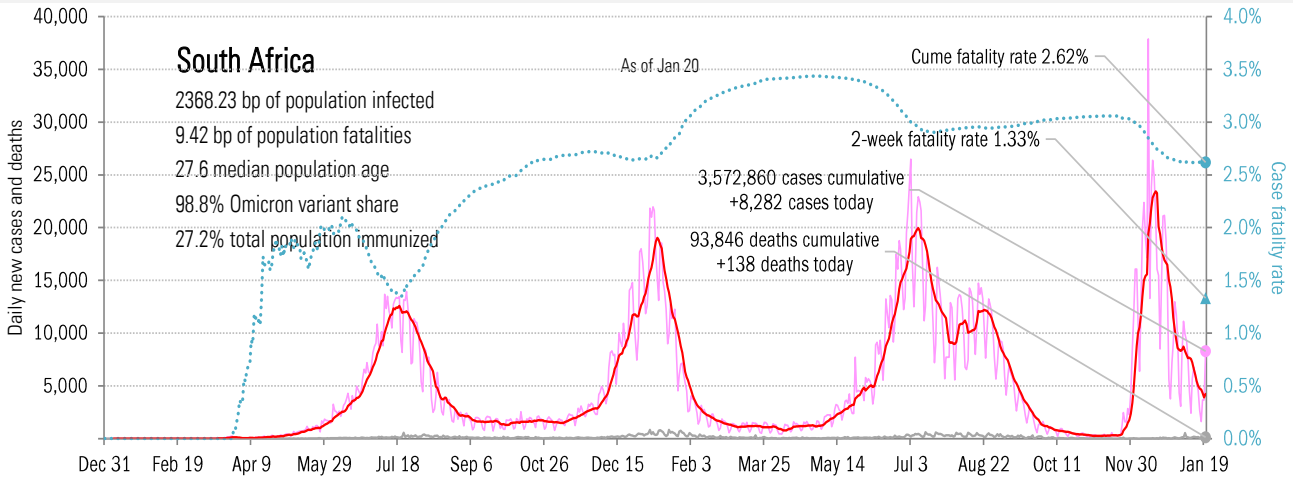
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations