Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

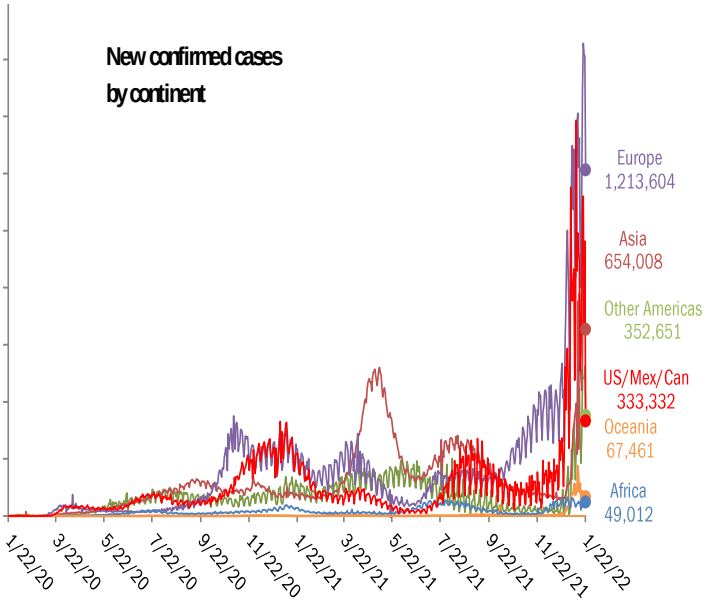
Sunday, January 23, 2022

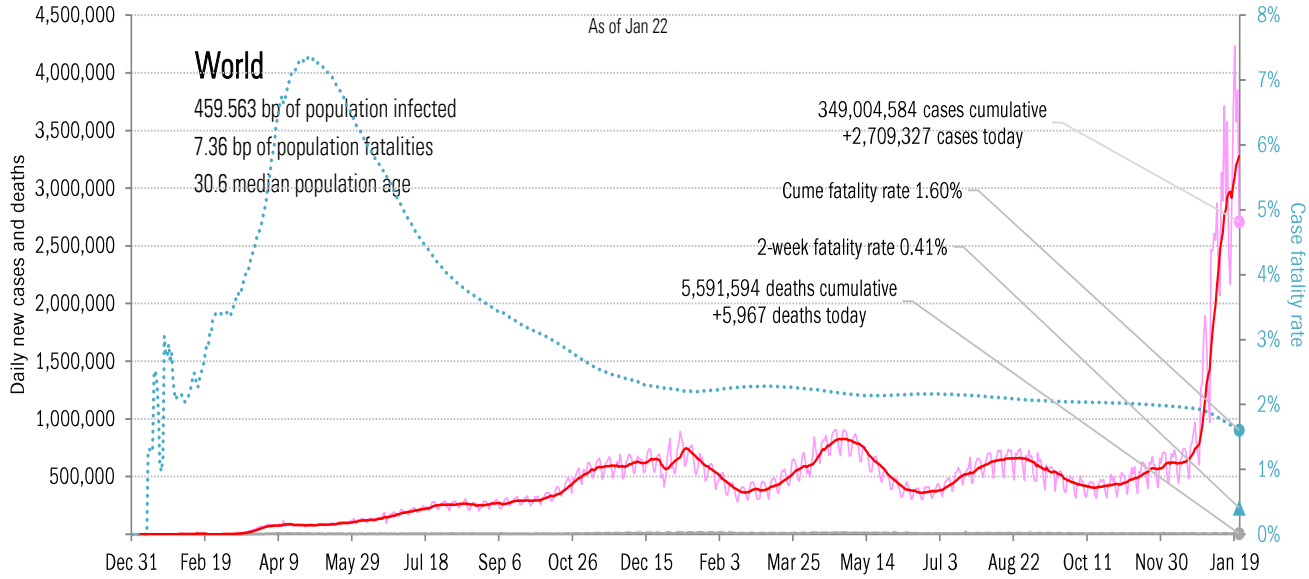
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
France	389,342	United States	899
India	333,533	Russia	669
United States	325,293	India	525
Italy	177,335	Italy	333
Brazil	165,110	Brazil	316
Argentina	98,146	United Kingdom	297
Germany	81,343	Colombia	199
United Kingdom	77,288	Poland	193
Turkey	72,856	Turkey	184
Australia	67,182	France	167
	1,787,428		3,782
World	2,709,327	World	5,967
Top ten	66%	Top ten	63%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

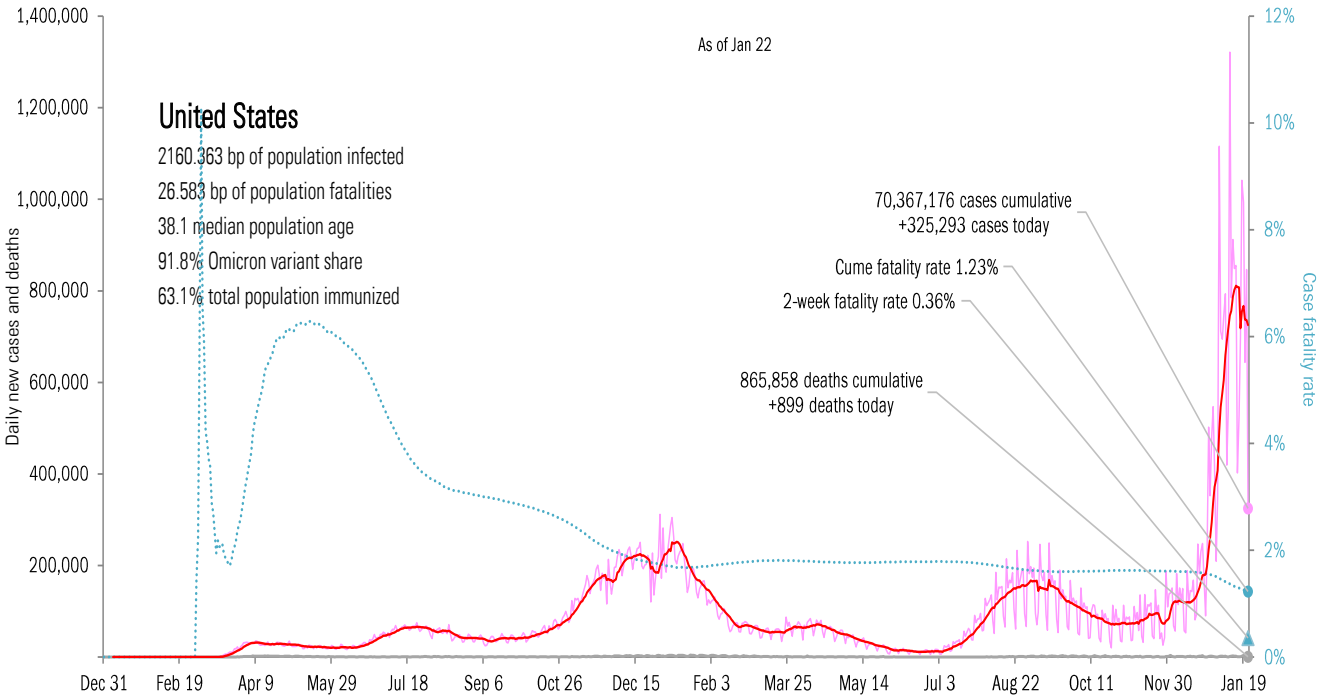
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TX	60,395	TX	161	TX	100	CA	7,664,368	CA	78,553	TX	442,087	MD	88%	AL	94%
FL	40,360	NJ	128	OK	92	TX	5,905,609	TX	78,055	FL	377,174	RI	88%	TX	93%
CA	40,183	PA	125	NC	76	FL	5,195,740	FL	63,653	CA	375,398	GA	87%	OK	90%
AZ	27,681	NY	93	WA	66	NY	4,675,346	NY	63,191	NY	225,058	MA	87%	NV	90%
NY	22,321	FL	86	KY	53	IL	2,773,362	PA	39,487	GA	187,675	PA	86%	GA	90%
PA	17,351	CA	71	AL	50	PA	2,560,167	GA	32,294	OH	174,902	WV	85%	MS	90%
AL	16,506	TN	69	PA	47	OH	2,496,243	IL	32,278	PA	161,468	MN	85%	RI	88%
OH	15,677	MD	66	KS	38	GA	2,229,675	OH	31,987	IL	143,962	WA	85%	MO	88%
OK	13,571	AZ	55	MN	35	NC	2,212,752	MI	31,502	MI	129,145	NH	84%	DE	88%
IA	12,658	PR	42	TN	33	MI	2,124,225	NJ	30,746	KY	128,039	NV	84%	NM	88%
	266,703		896		590		37,837,487		481,746		2,344,908				
All states	325,293		899		-949	All states	70,367,176		865,858		4,230,830	All states	70%		67%
Top ten	82%		100%		-62%	Top ten	54%		56%		55%	Median	80%		83%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-95,127	MI	-221	CA	-335	MP	+20 bp
MI	-41,164	MO	-205	FL	-215	AK	+10 bp
IL	-40,642	PA	-144	TX	-172	AL	+10 bp
TX	-37,960	IL	-137	OH	-164	AR	+10 bp
NC	-35,395	NY	-132	KY	-144	AZ	+10 bp



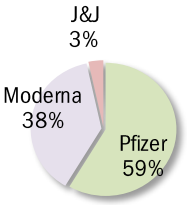
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	547,446,859				+1.079 million
Boosters	84,712,764				+0.550 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	258,029,205	77%	216,272,515	65%	+0.210 million
Age 12 to 17	15,859,376	67%	13,230,718	56%	+0.021 million
Age 18 to 64	174,327,615	86%	146,465,784	72%	+0.103 million
Age 65 and over	58,455,997	100%	50,016,657	91%	+0.013 million

Immunity	Full	Partial
US	63.1%	75.5%
UK	70.5%	76.5%
France	75.7%	79.5%
Spain	81.8%	87.2%
Germany	72.6%	74.7%
Italy	75.5%	82.5%
Australia	78.0%	82.7%
Israel	65.2%	71.9%
Canada	78.2%	84.5%
Japan	79.0%	80.4%
Africa	10.2%	15.4%
India	48.9%	66.6%
Brazil	69.4%	78.5%
China	84.8%	87.6%

Global data differs due to sources, timing



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

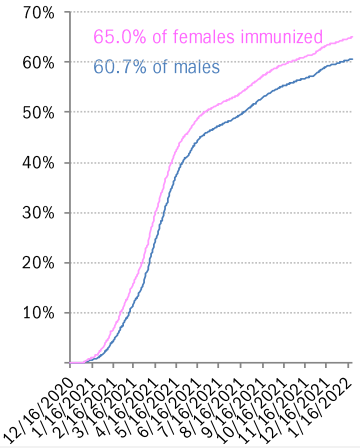
"Immunity" = two doses

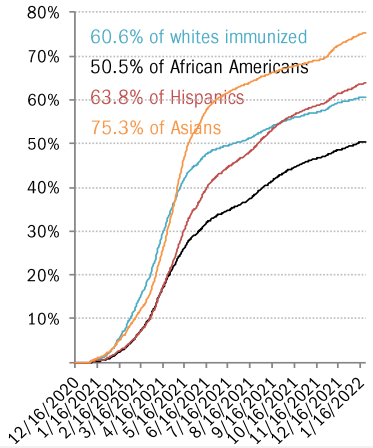
Best
Middle
Worst

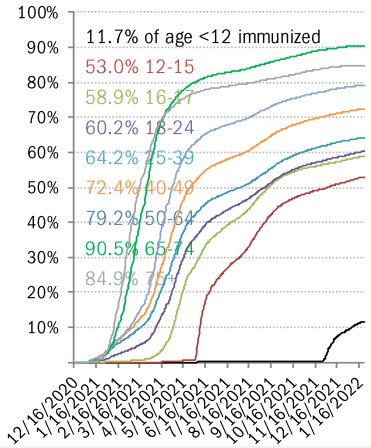
As of Jan 24

AK					WI					ME
67.6%					70.0%					88.2%
58.1%					63.2%					77.2%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
78.1%	54.1%	63.4%	63.7%	73.1%	74.7%	64.9%		86.9%	91.6%	95.0%
69.6%	47.6%	55.0%	53.8%	66.7%	65.6%	57.9%		73.6%	79.0%	68.4%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
75.7%	72.4%	56.9%	73.4%	66.4%	59.5%	62.0%	81.3%	86.7%	94.0%	
67.5%	58.0%	49.6%	58.5%	60.1%	52.9%	56.4%	65.3%	72.1%	76.0%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
86.0%	69.0%	77.0%	68.3%	64.2%	64.3%	63.3%	82.7%	83.1%	91.9%	93.7%
68.4%	60.2%	67.9%	61.2%	54.1%	55.4%	55.9%	70.3%	72.1%	76.2%	78.3%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	69.5%	83.8%	72.0%	64.7%	60.3%	80.2%	65.3%	92.3%	79.6%	
	58.4%	67.9%	58.7%	52.4%	52.5%	58.1%	54.6%	69.5%	65.8%	
			OK	LA	MS	AL	GA			
			68.7%	59.2%	57.8%	60.6%	63.3%			
			54.8%	51.5%	49.8%	49.0%	52.5%			
HI			TX					FL		PR
84.4%			69.2%					76.8%		91.7%
75.5%			58.4%					64.7%		78.7%

The demographics of US vaccination



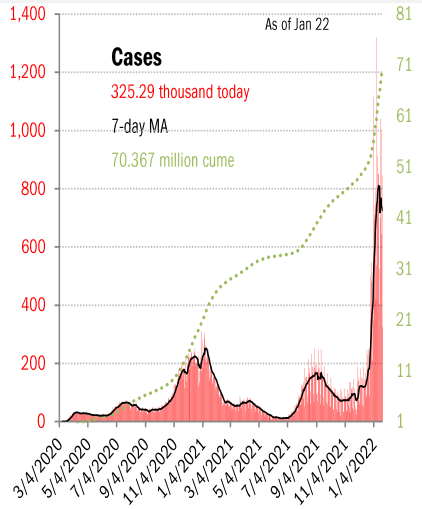


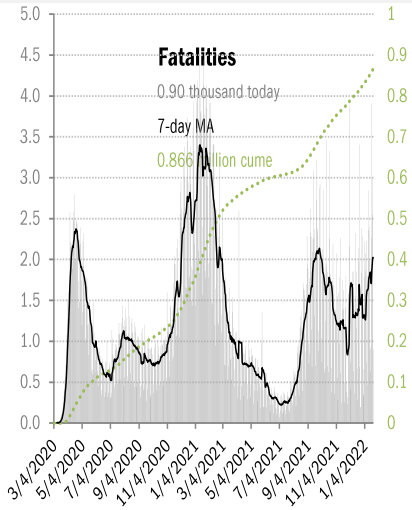


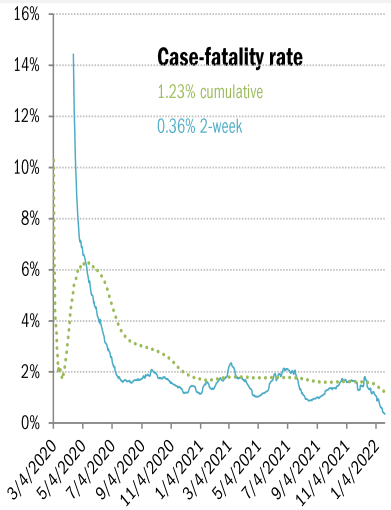
Source: CDC, CDC, Our World in Data, TrendMacro calculations

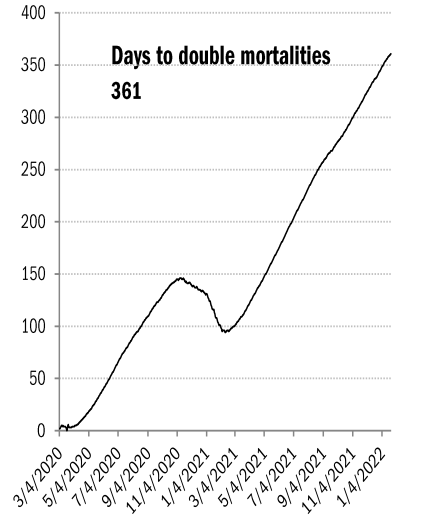
US deep-dive

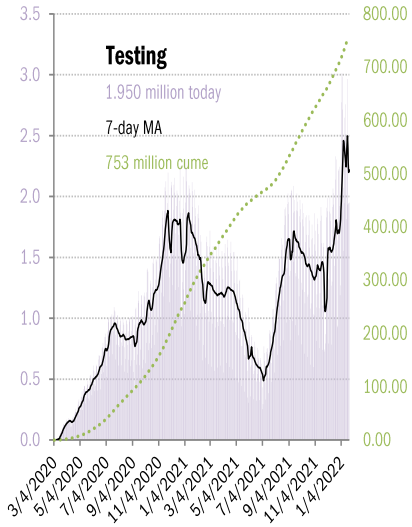
National and state-by-state data do not line up because of different sources

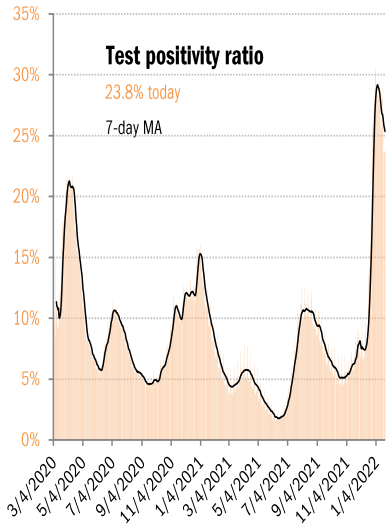


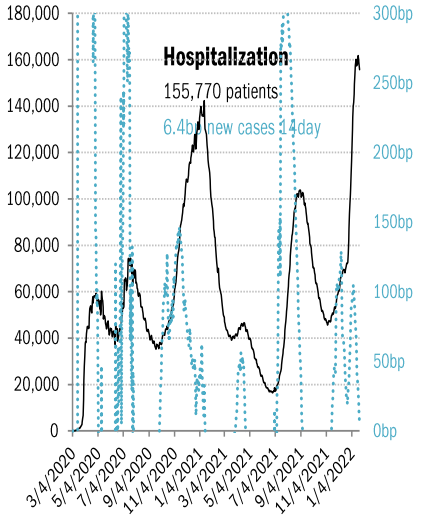


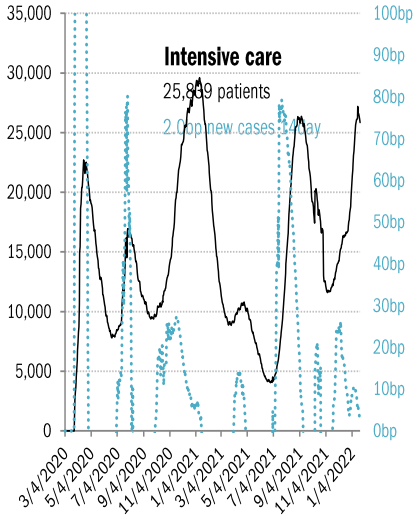


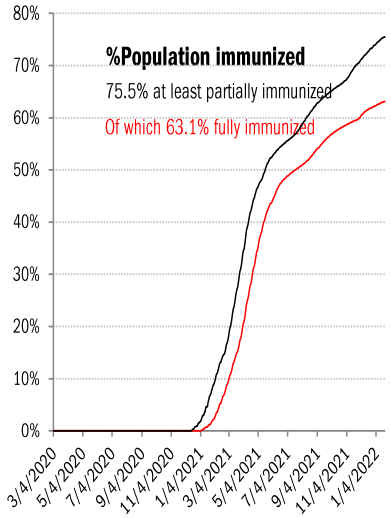












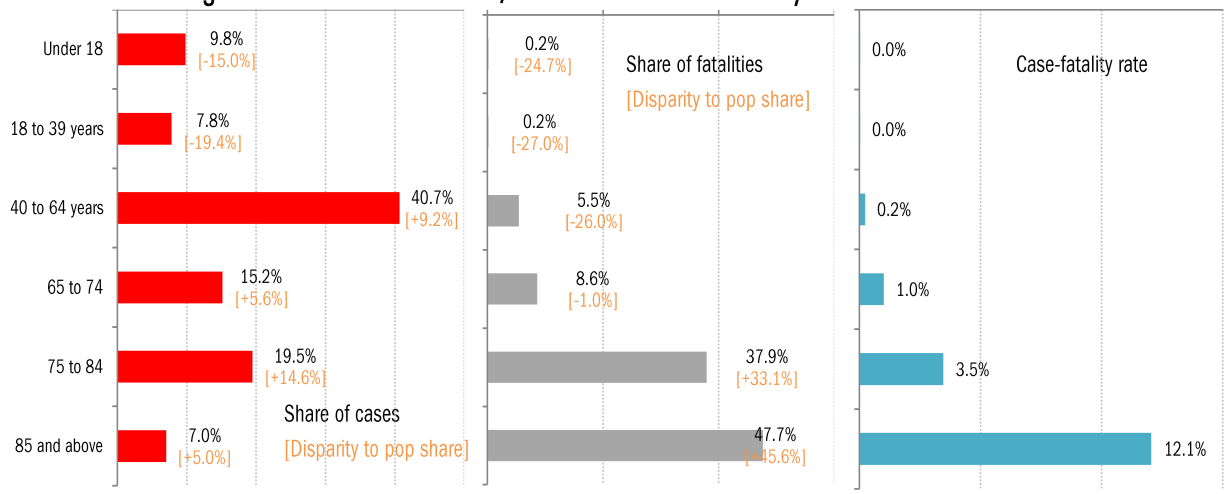
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

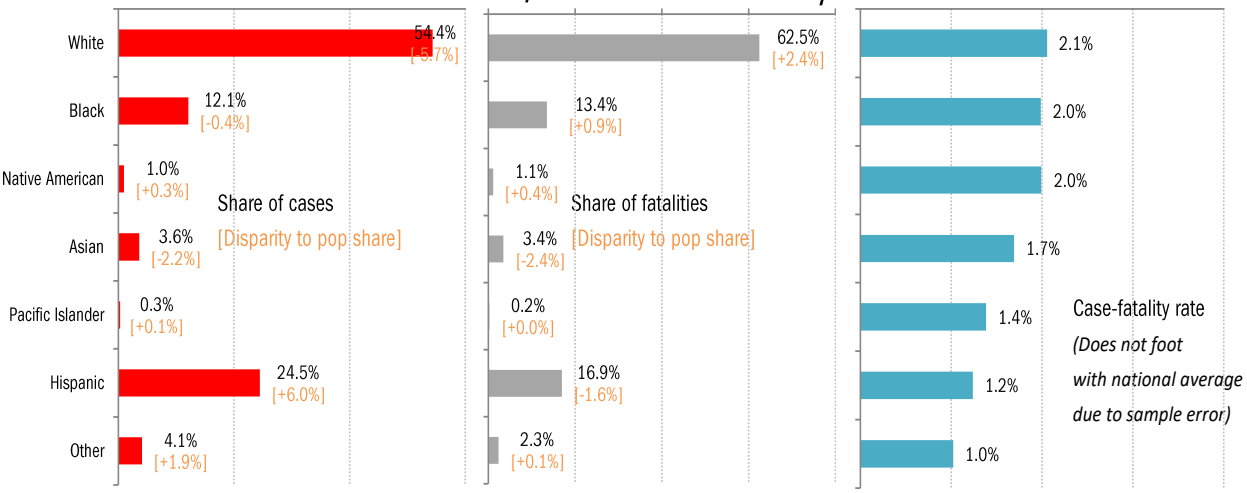
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



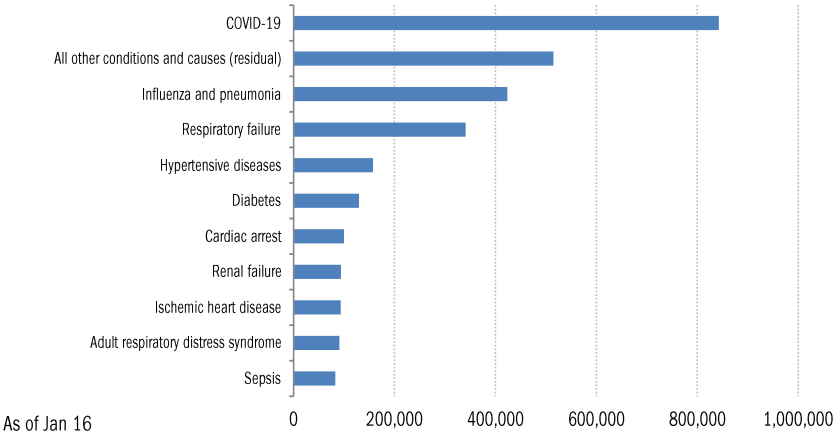
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jan 16

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

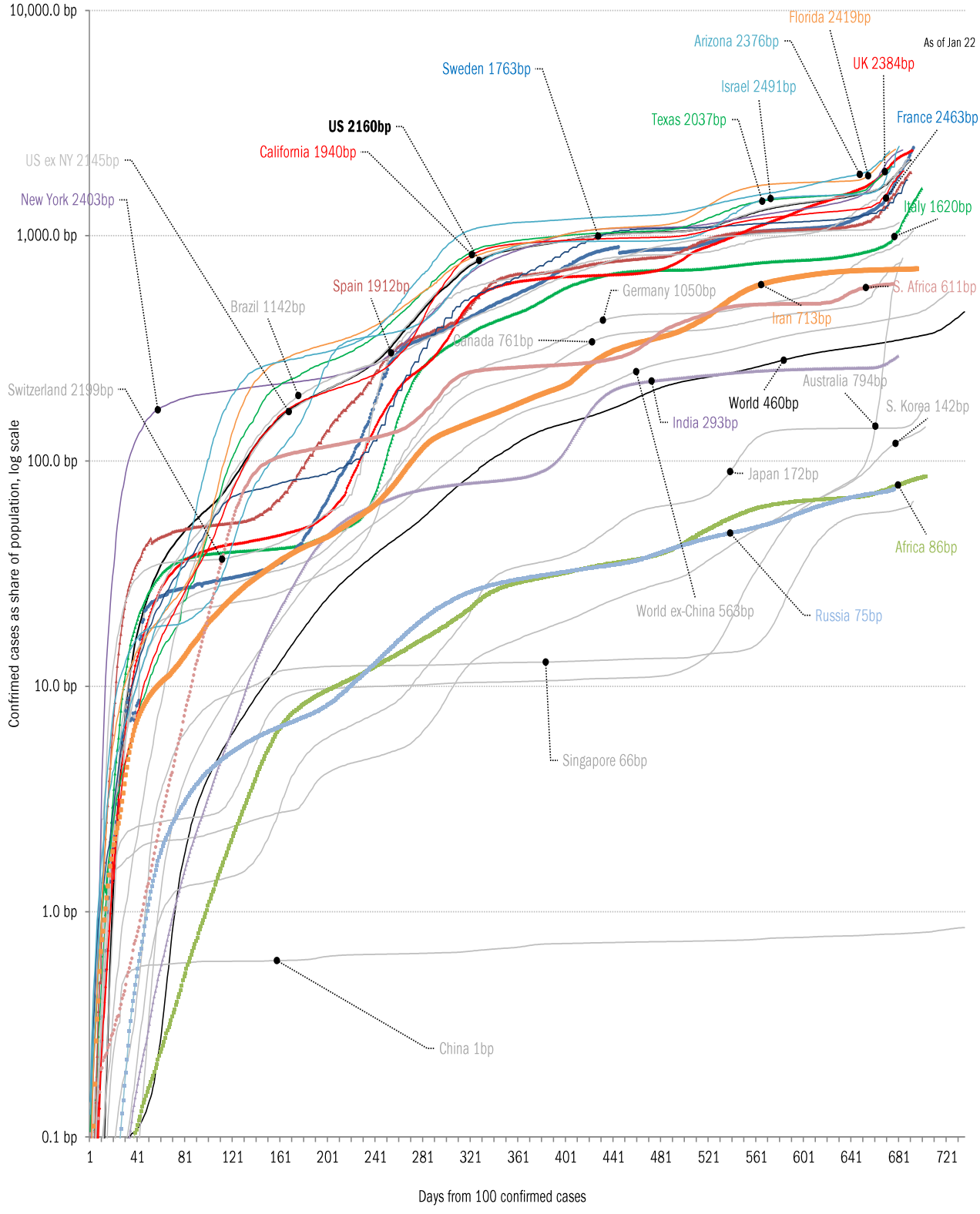
COVID-19 will continue but the end of the pandemic is near
Christopher J L Murray
The Lancet
January 19, 2022

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

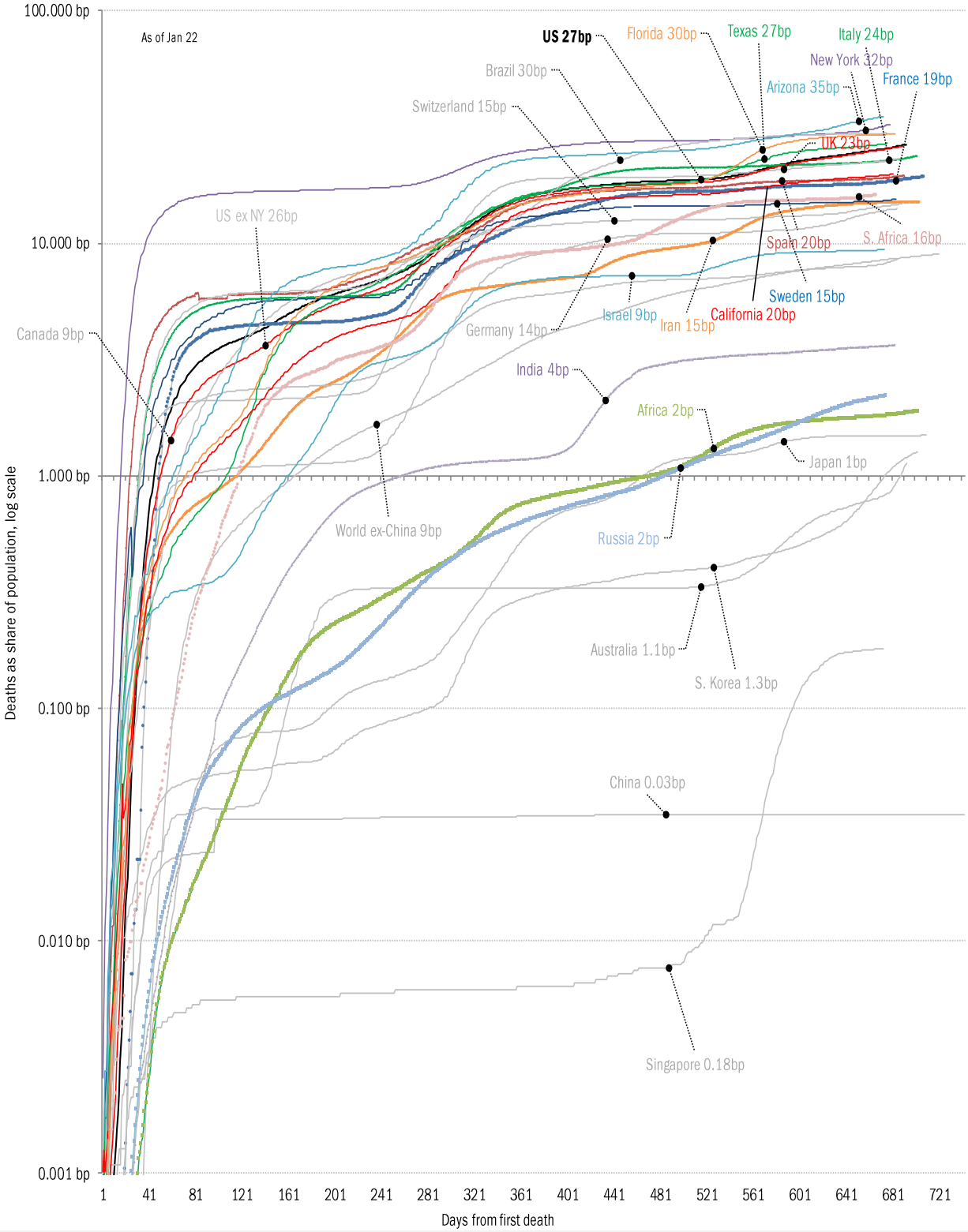
Share of infected population from first day with 100 confirmed cases, log scale



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

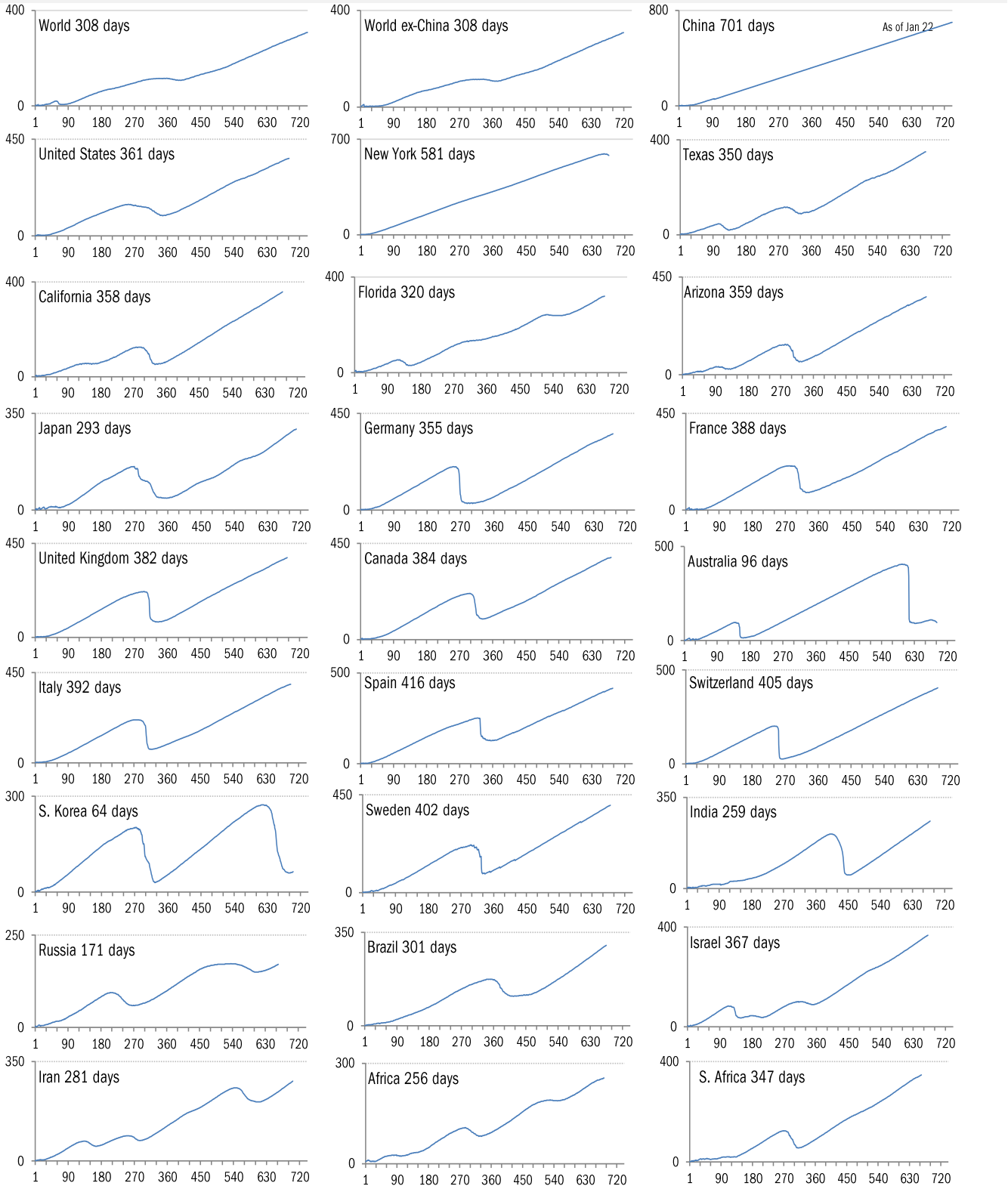


Source: Johns Hopkins, TrendMacro calculations

"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

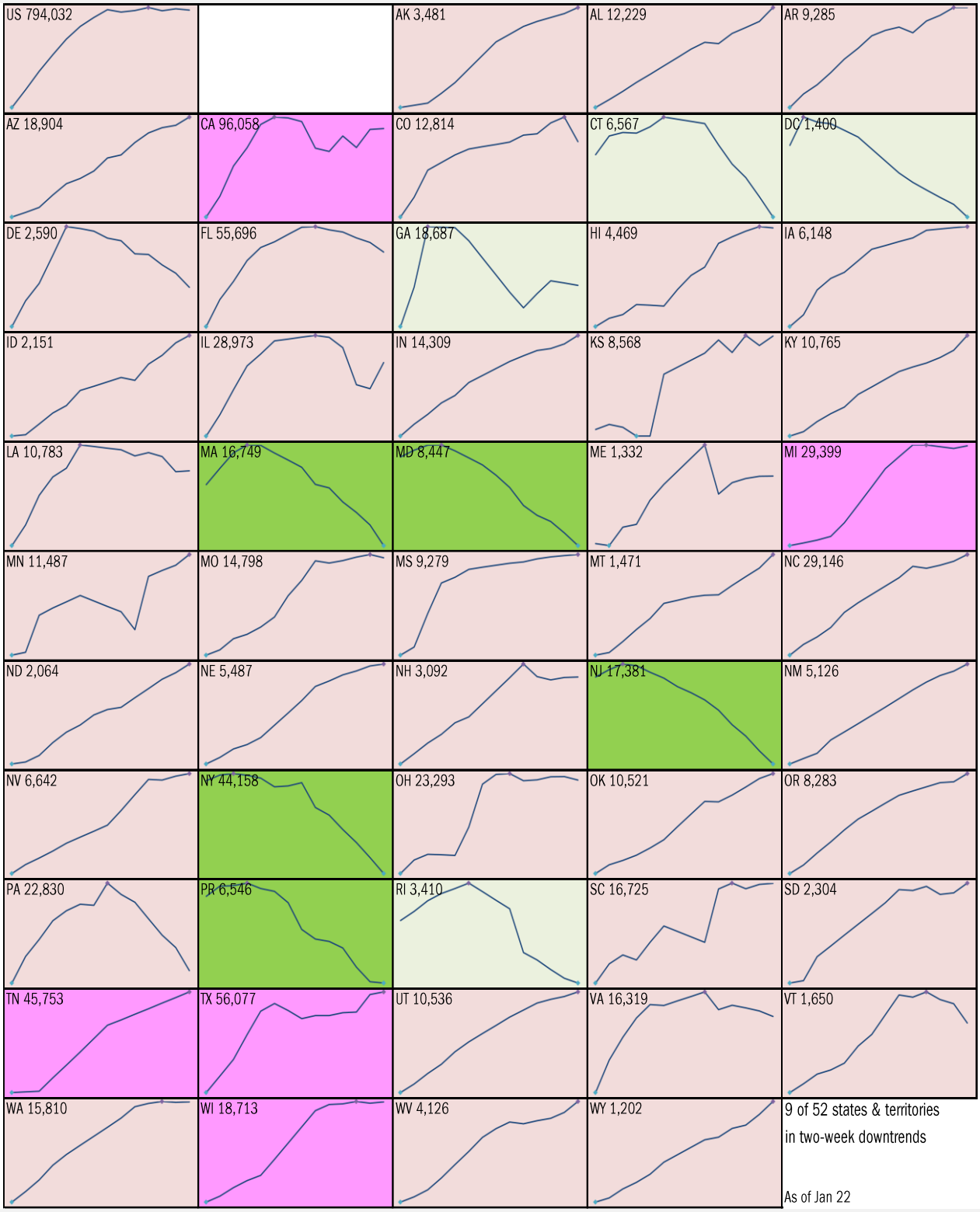


Source: Johns Hopkins, TrendMacro calculations

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

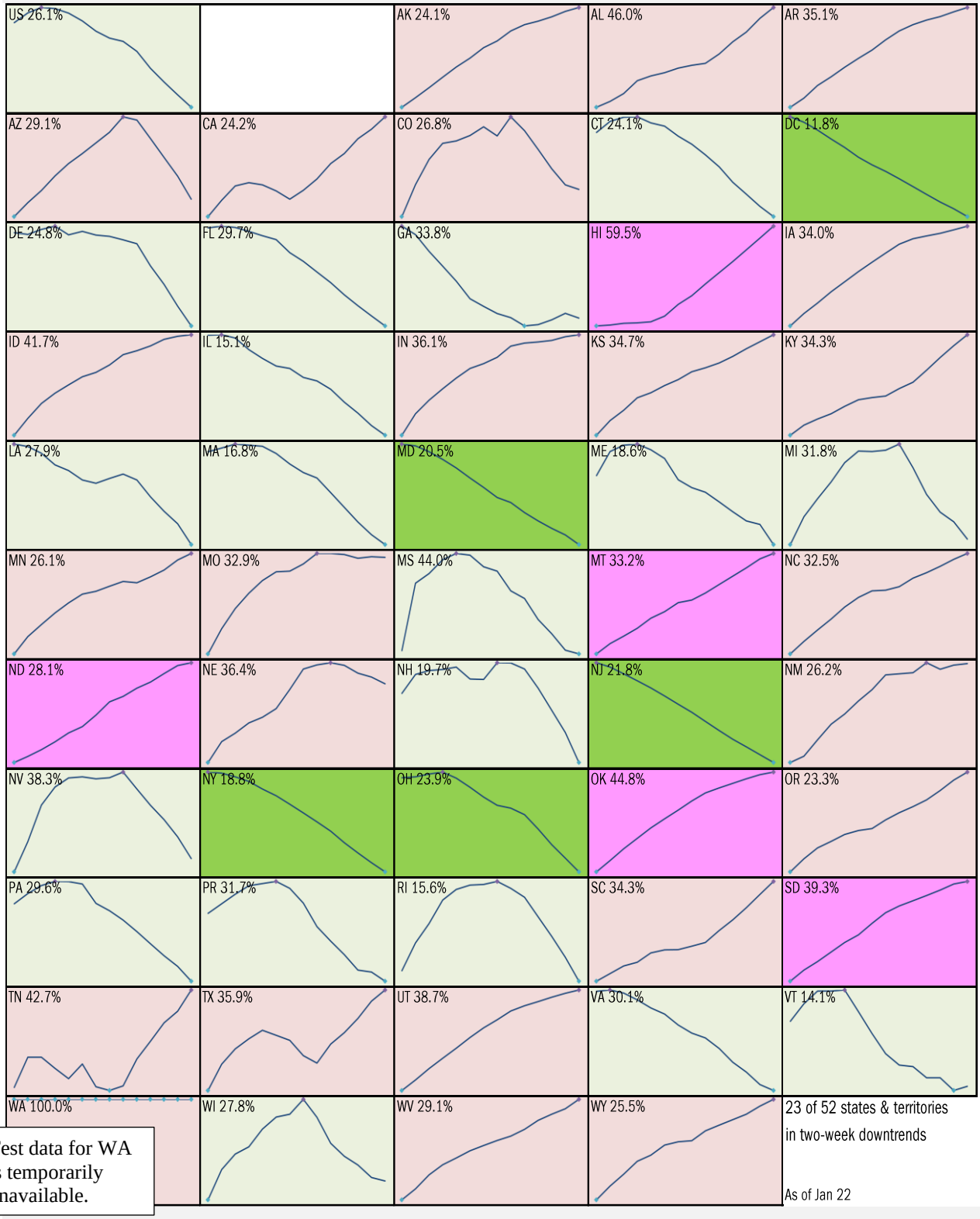


Source: Johns Hopkins, TrendMacro calculations

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

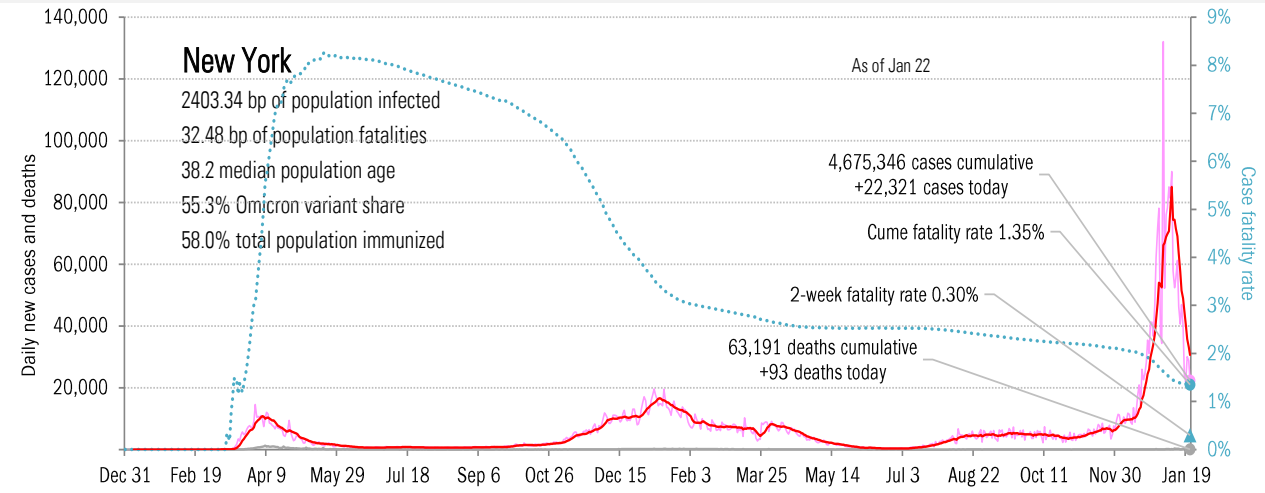


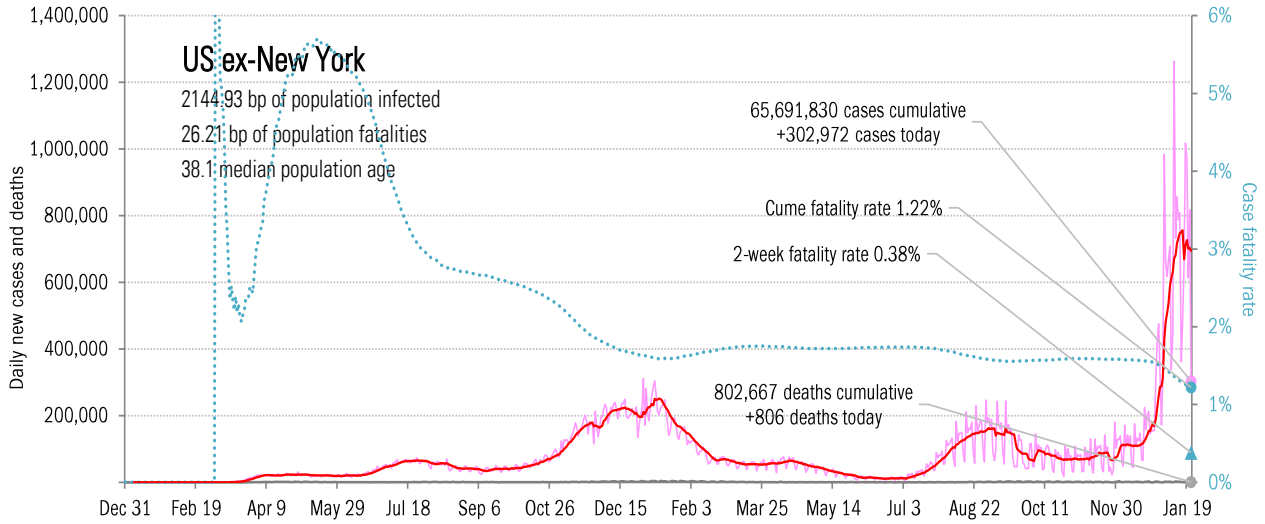
Test data for WA is temporarily unavailable.

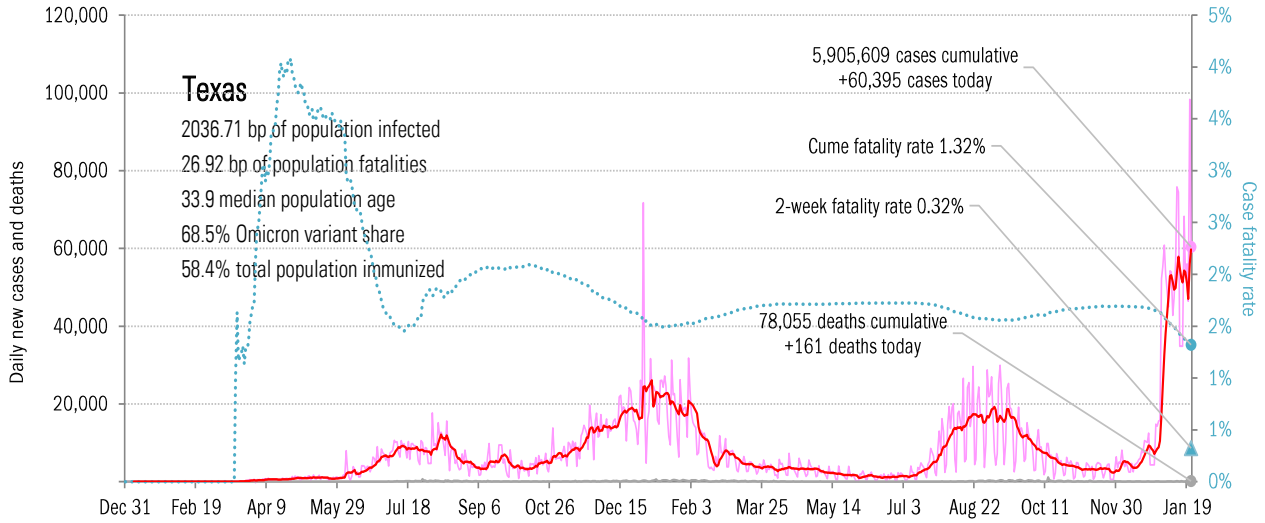
Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

Cases: 7-day average and daily Deaths: Daily



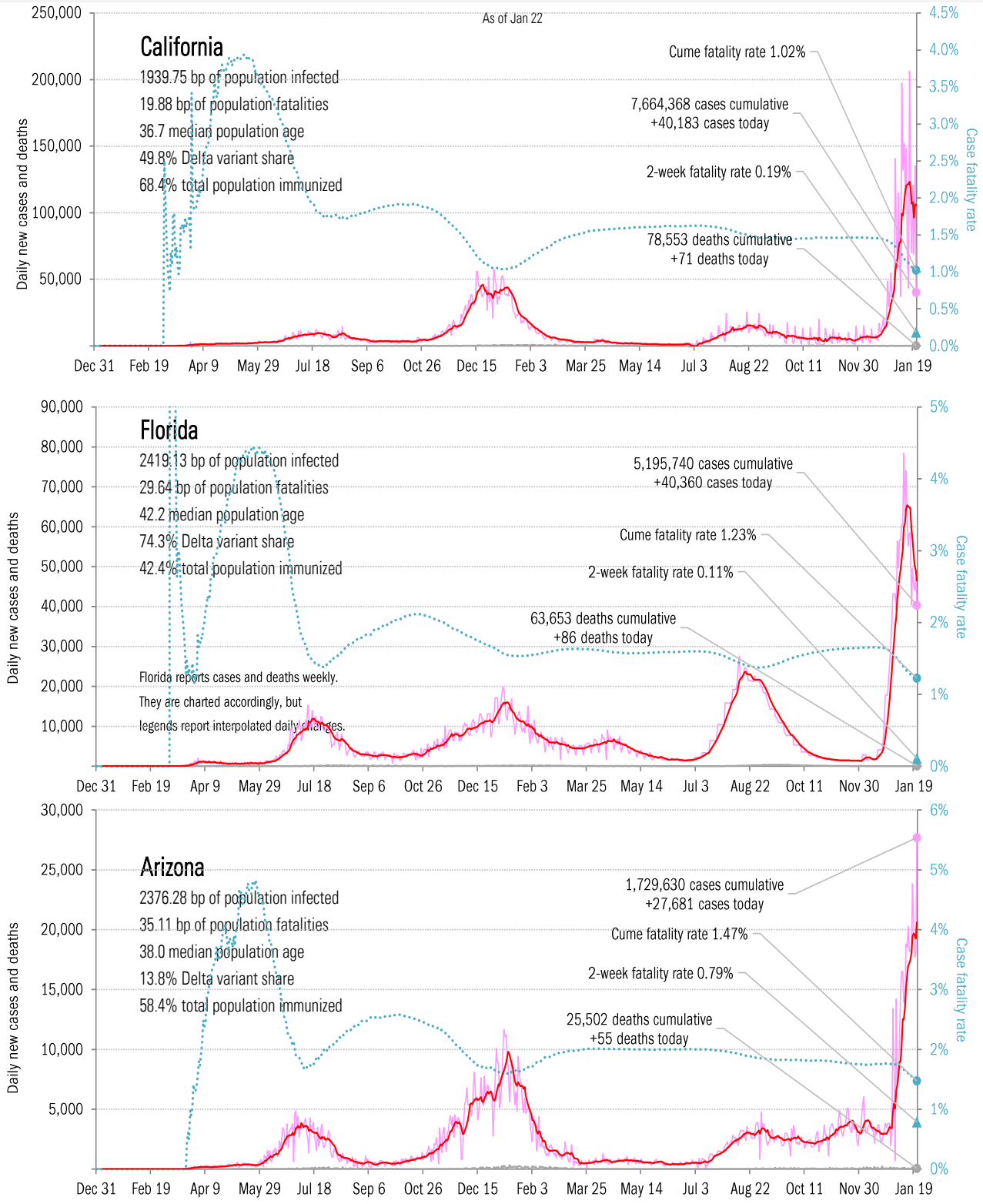




Source: Johns Hopkins, TrendMacro calculations

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

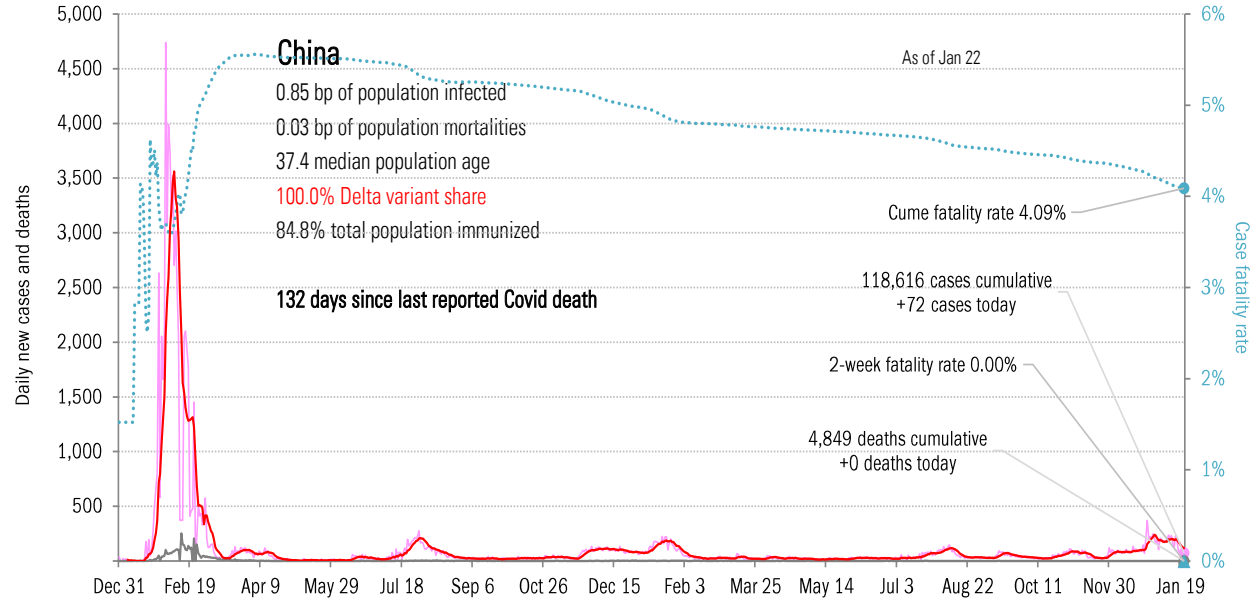
Cases: 7-day average and daily Deaths: Daily

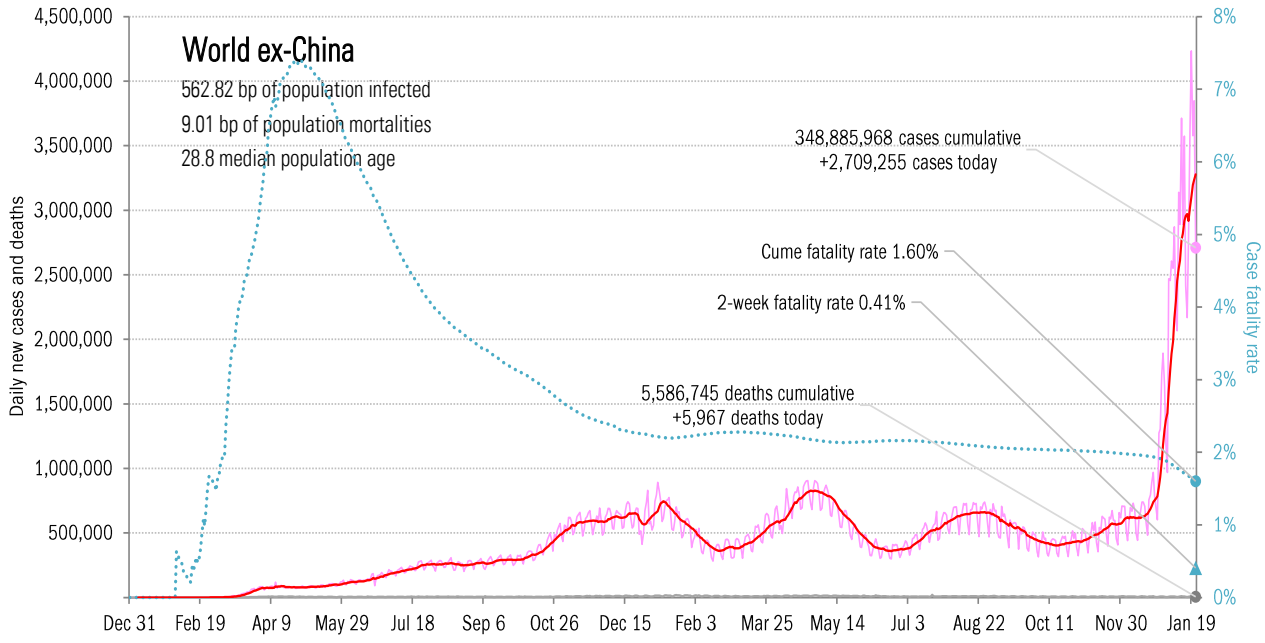


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

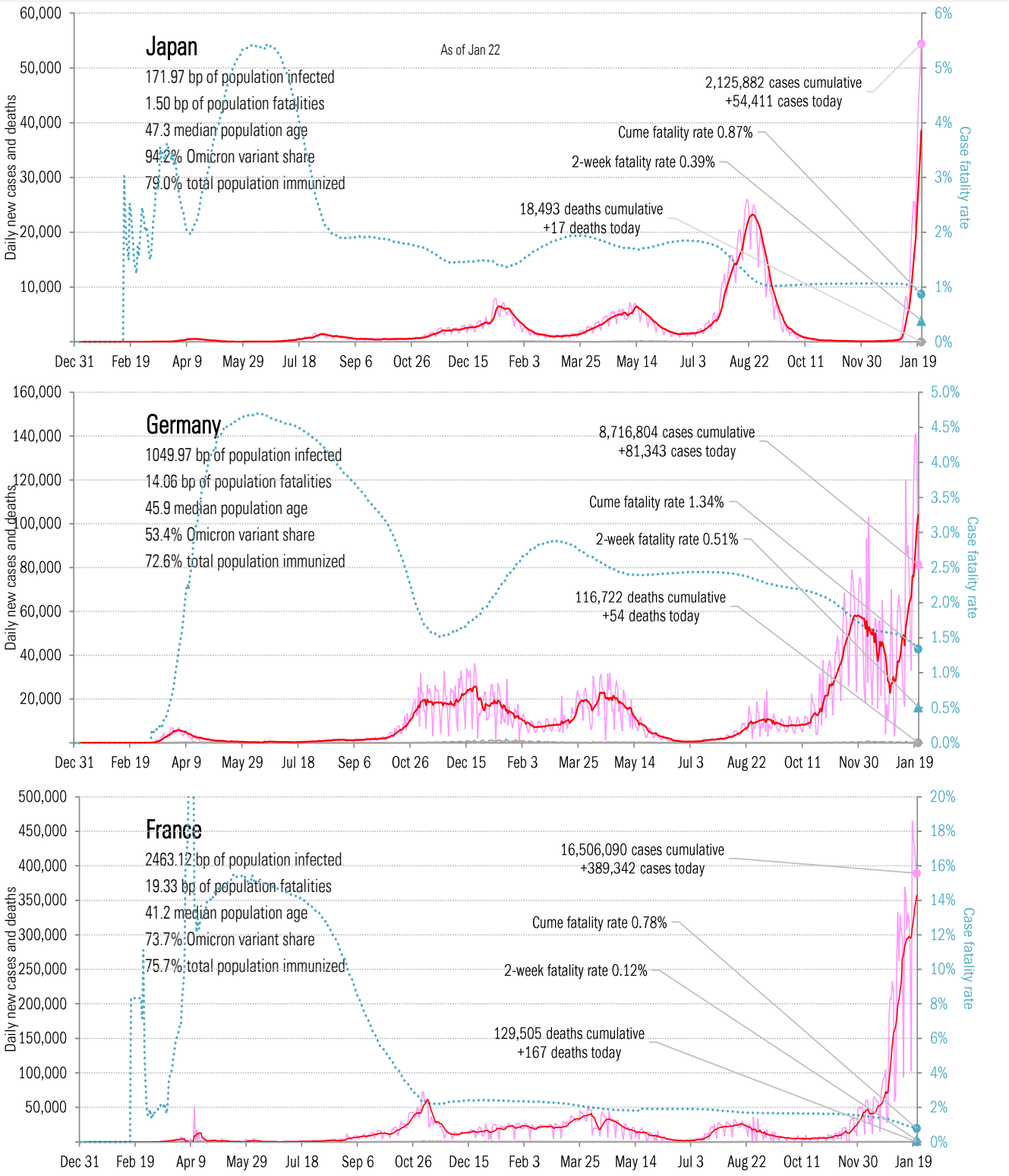




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

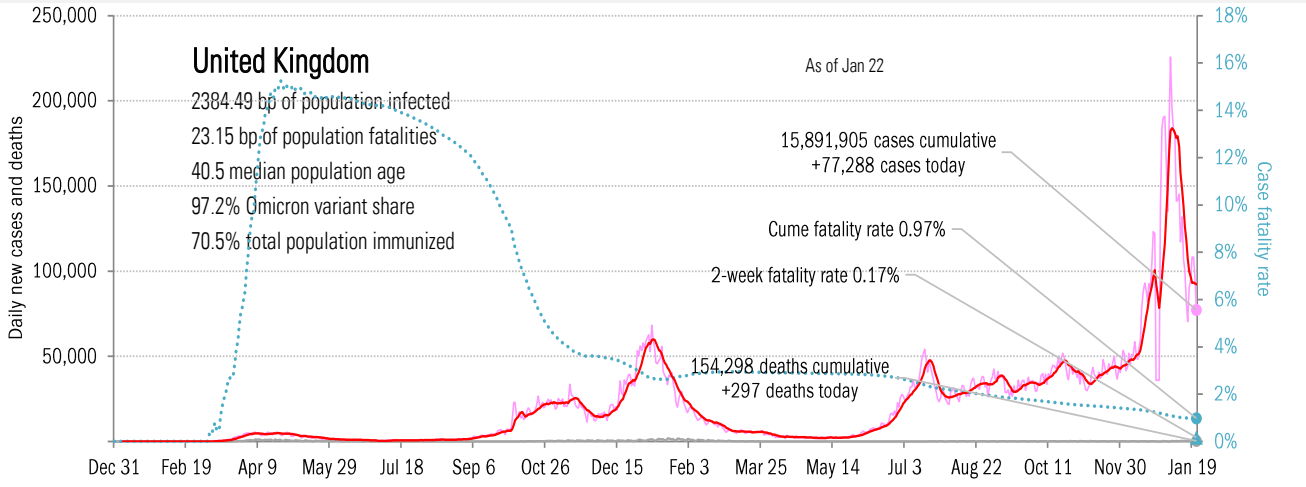
Cases: 7-day average and daily Deaths: Daily

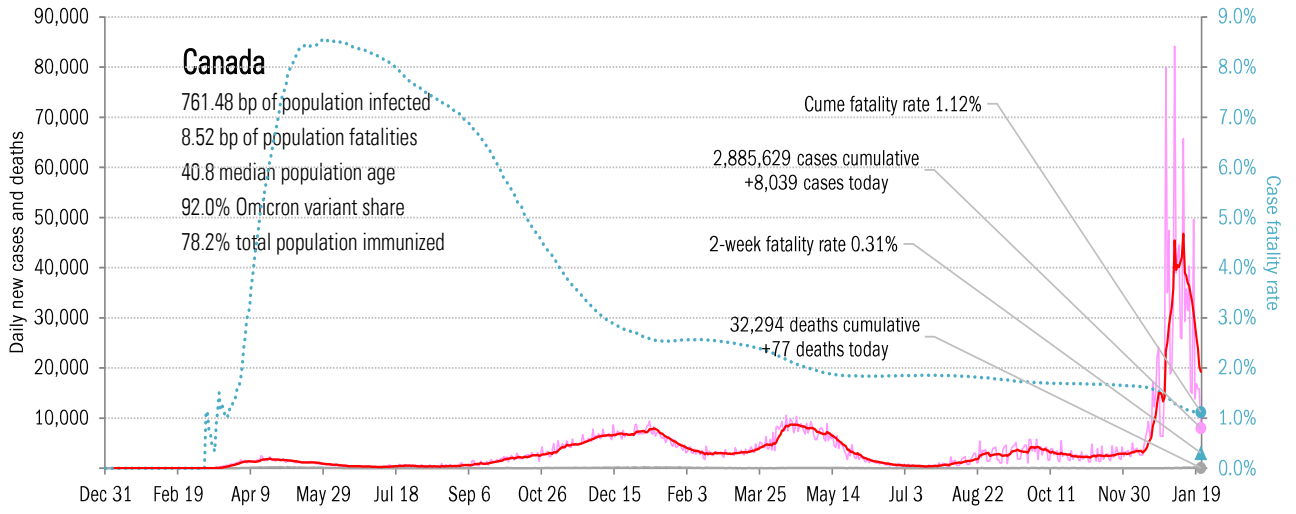


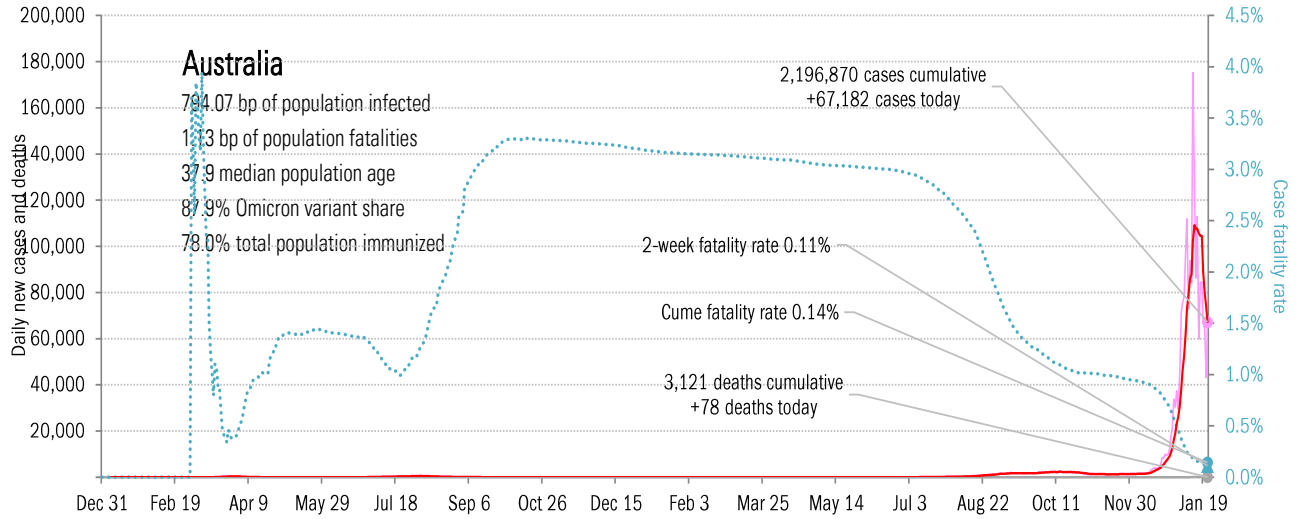
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily



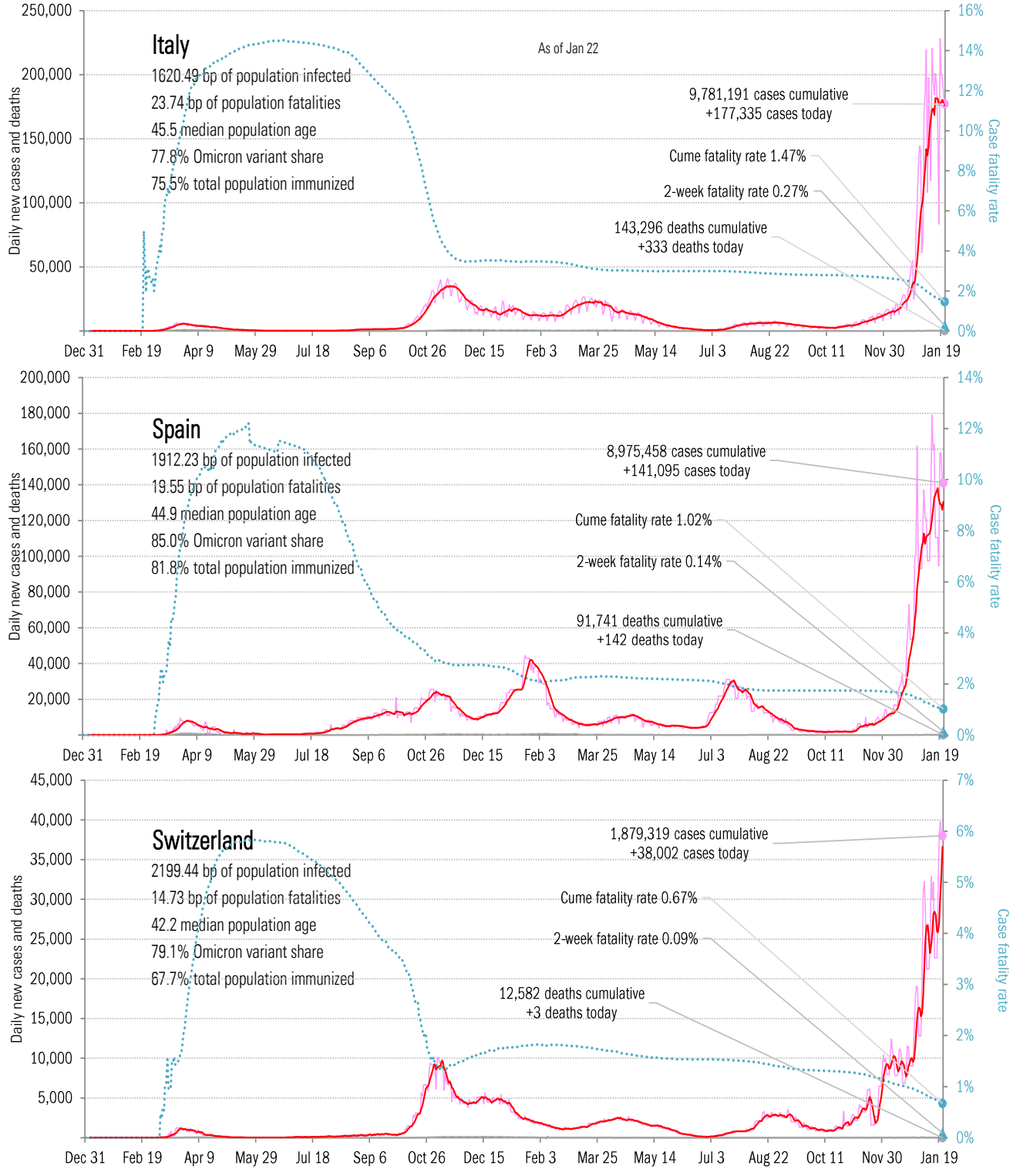




Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

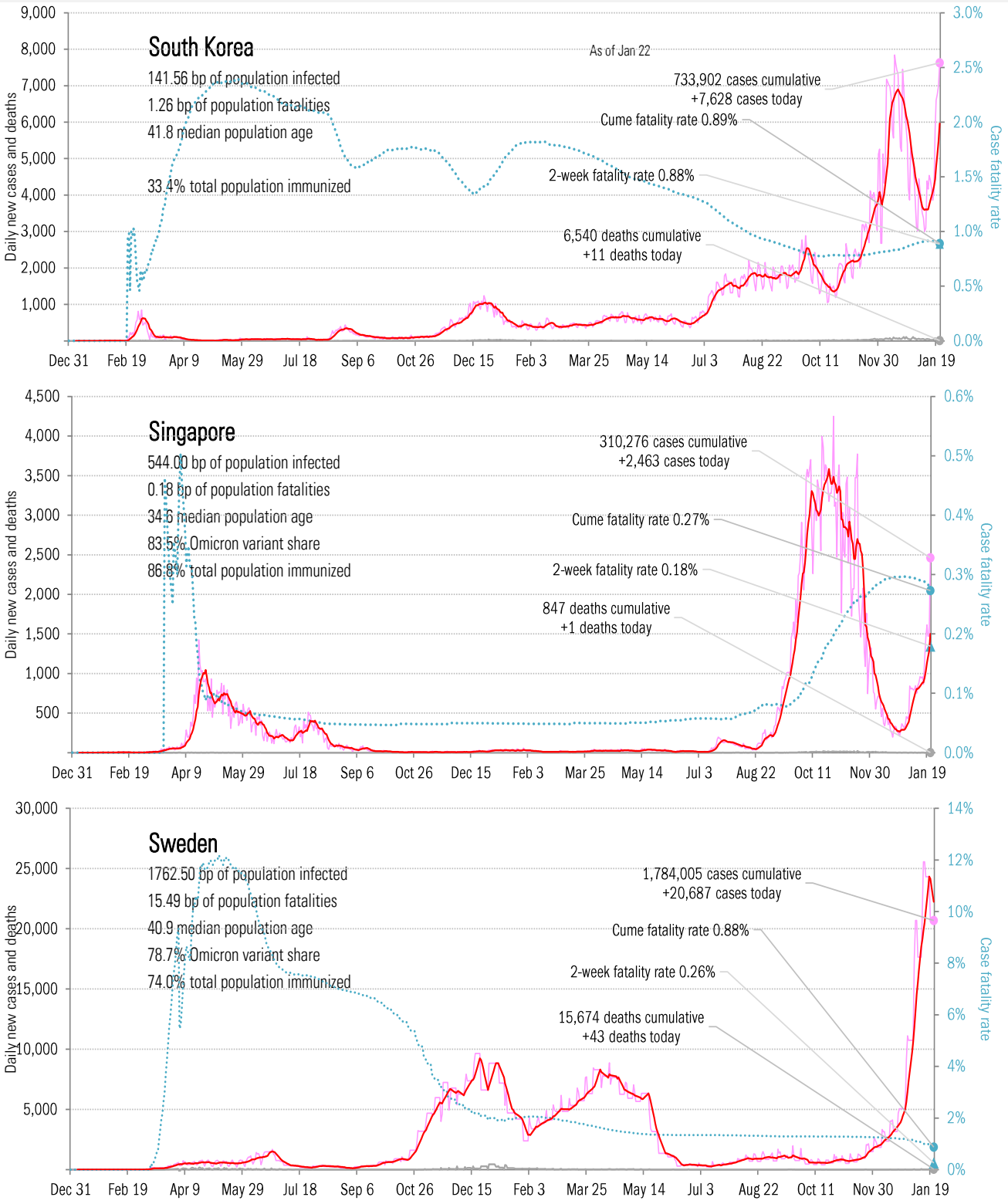
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

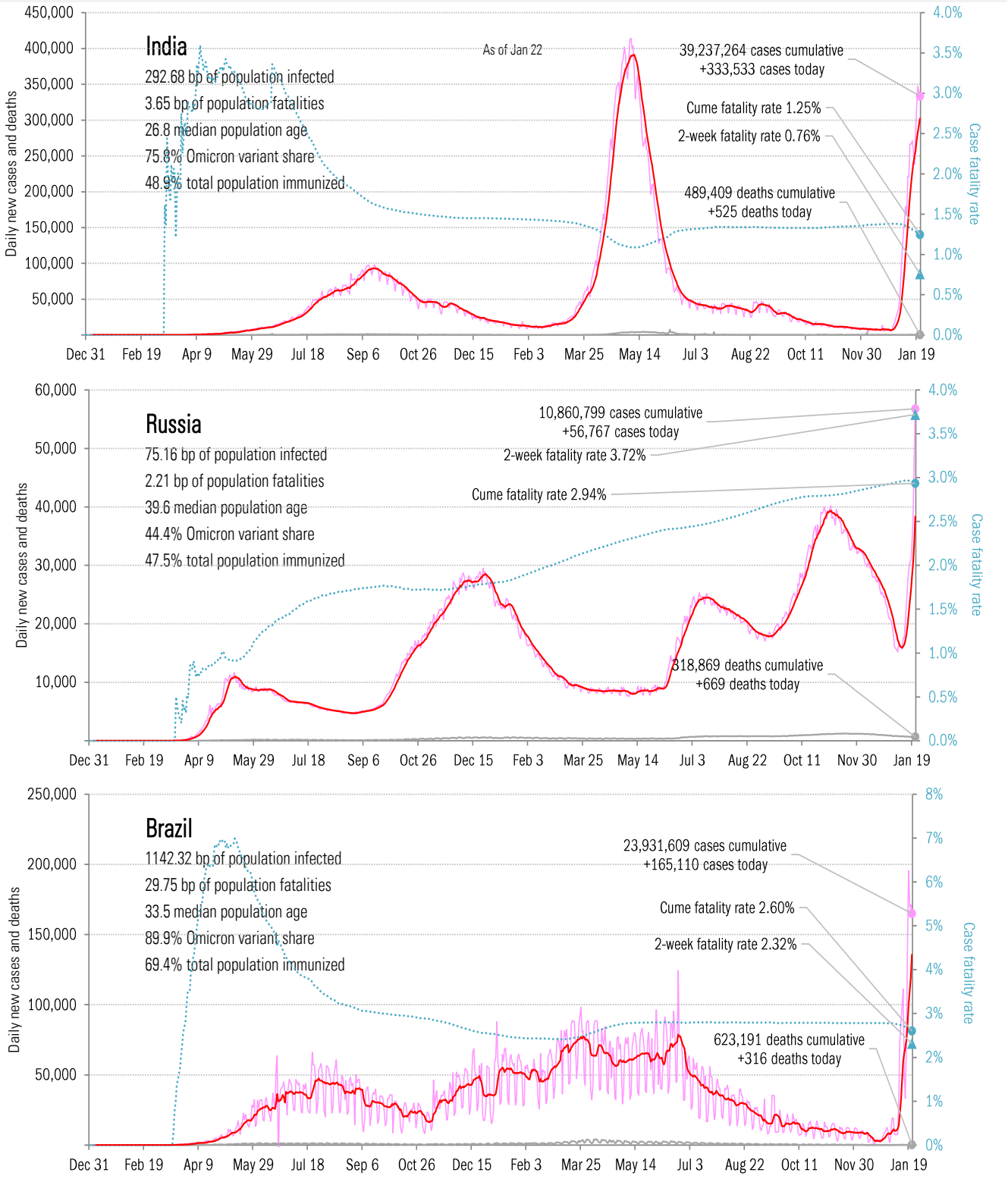
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

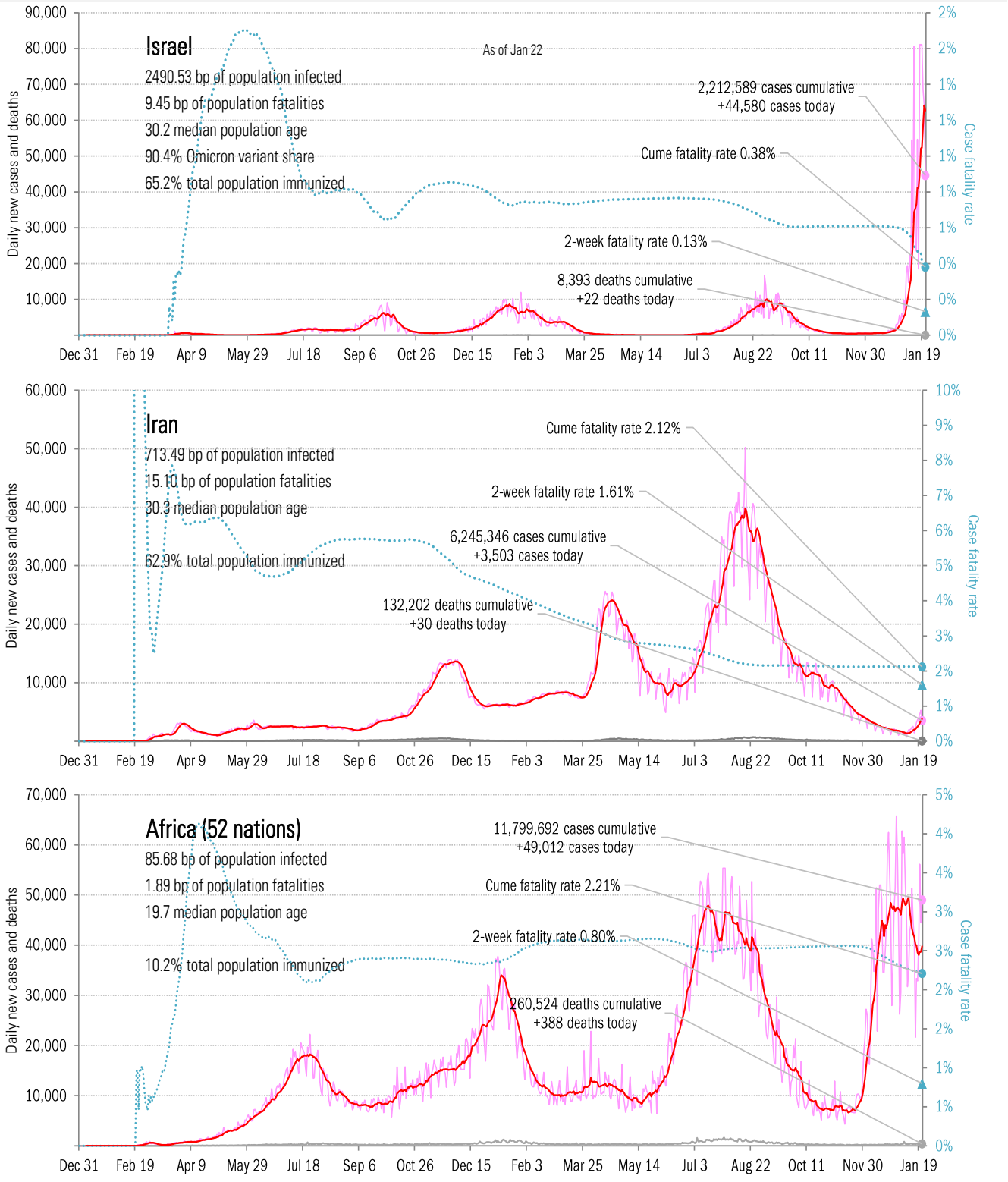
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

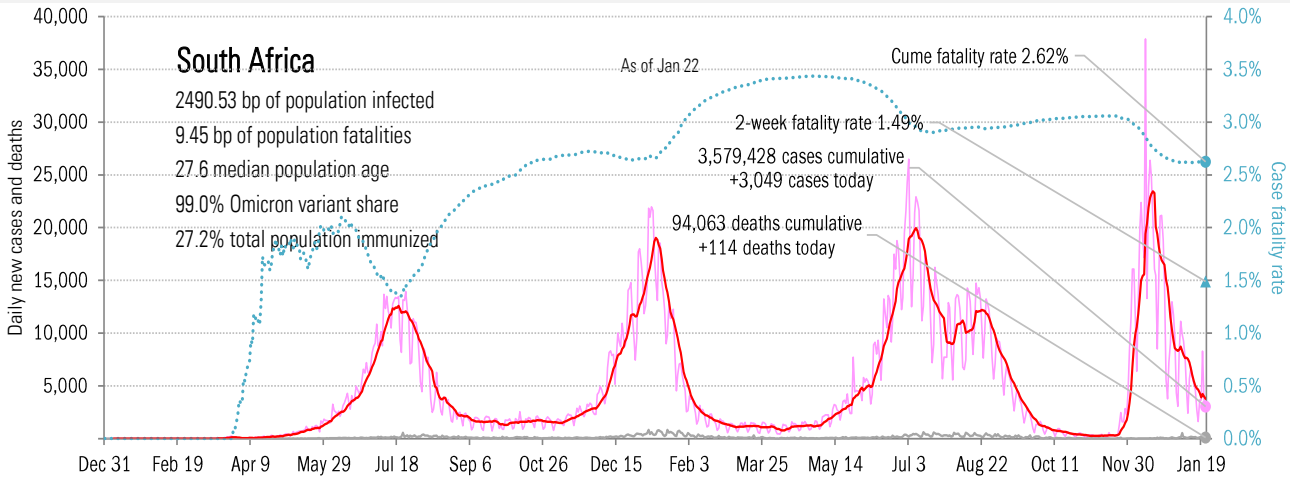
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations