Trend Macrolytics, LLC
Donald Luskin, Chief Investment Officer
Thomas Demas, Managing Director
Michael Warren, Energy Strategist

Data Insights: Covid-2019 Monitor

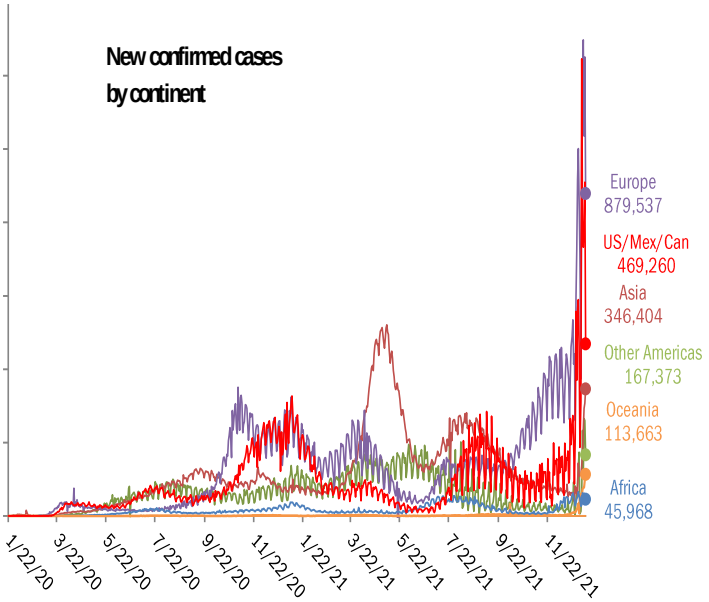
Sunday, January 9, 2022

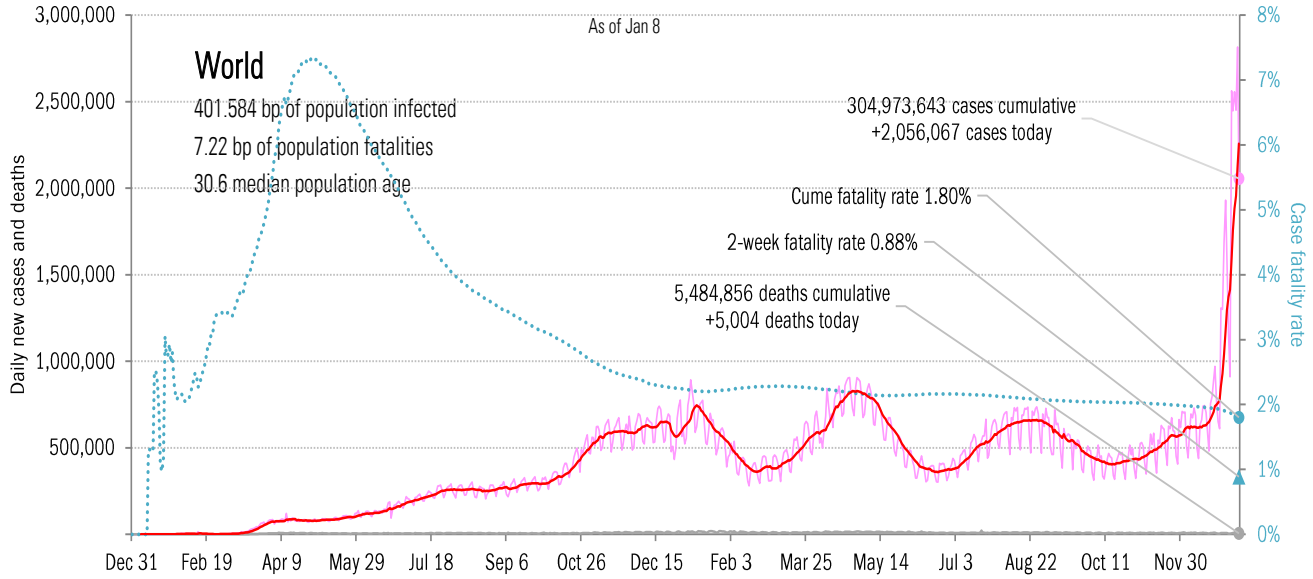
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	412,554	Russia	783
France	298,598	United States	687
Italy	197,535	India	327
India	159,632	United Kingdom	314
United Kingdom	141,251	Poland	292
Australia	111,907	Philippines	264
Argentina	101,689	Vietnam	240
Turkey	66,237	Mexico	202
Greece	37,670	Italy	184
Germany	32,128	Turkey	141
	1,559,201		3,434
World	2,056,067	World	5,004
Top ten	76%	Top ten	69%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
Donald Luskin: 214 550 2121 don@trendmacro.com
Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

Cases: 7-day average and daily Deaths: Daily

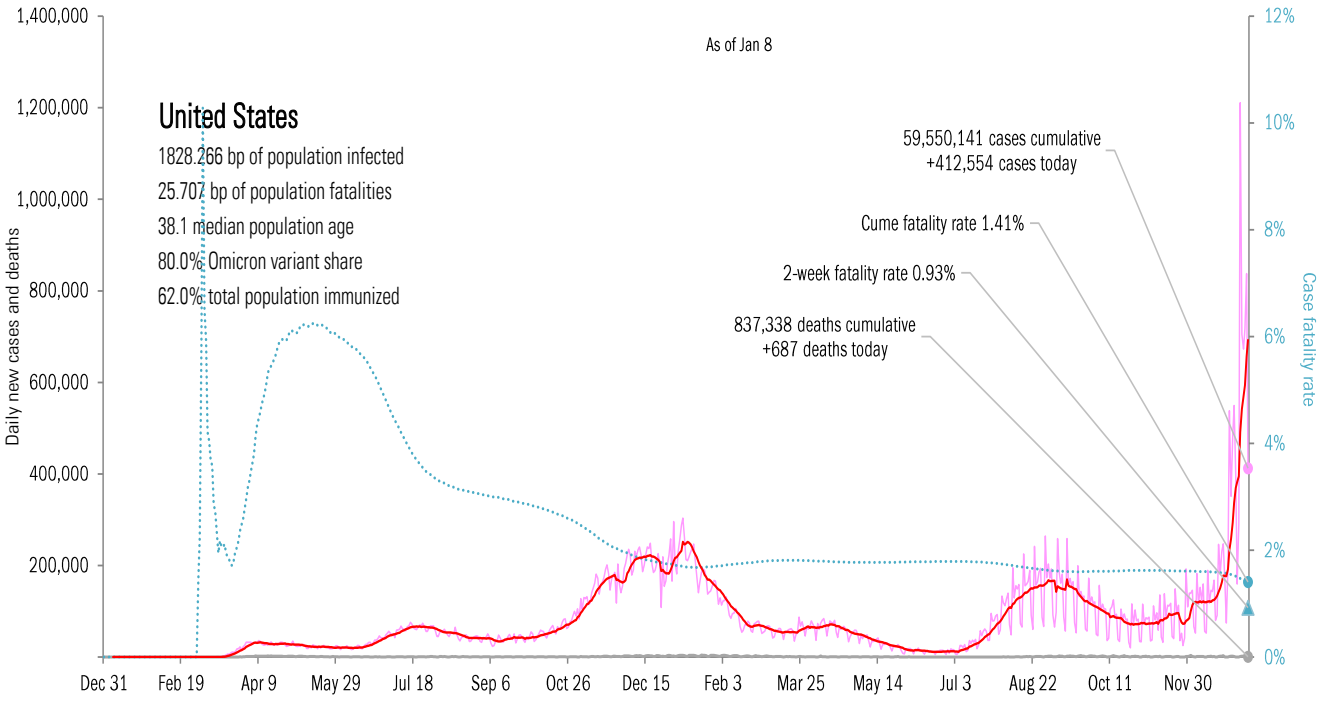
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
NY	81,388	PA	120	CA	853	CA	6,037,516	CA	77,043	TX	414,524	MD	87%	KY	92%
FL	60,450	TX	96	GA	690	TX	4,999,623	TX	76,461	FL	350,286	MN	87%	MO	91%
TX	49,690	AZ	88	FL	618	FL	4,415,997	FL	62,762	CA	346,954	GA	87%	NM	91%
CA	34,364	NY	85	TX	541	NY	4,057,133	NY	60,441	NY	205,859	MA	86%	TX	90%
PA	33,650	NJ	70	NY	400	IL	2,382,437	PA	37,642	GA	177,450	PA	86%	AL	90%
NJ	32,700	TN	69	PA	251	PA	2,240,549	GA	31,521	OH	162,962	MO	85%	NH	89%
OH	18,310	MD	51	IL	183	OH	2,170,139	IL	30,794	PA	149,919	RI	84%	IN	88%
AZ	16,504	AL	39	CT	177	GA	1,928,942	OH	30,072	IL	133,108	NH	84%	AR	87%
MO	13,619	DE	35	NJ	173	MI	1,855,658	MI	29,955	KY	122,663	WV	84%	NE	87%
MD	12,945	FL	26	VA	168	NC	1,816,380	NJ	29,444	MI	121,849	AZ	84%	DE	87%
	353,620		679		4,054		31,904,374		466,135		2,185,574				
All states	412,554		687		6,113	All states	59,550,141		837,338		3,942,995	All states	70%		67%
Top ten	86%		99%		66%	Top ten	54%		56%		55%	Median	78%		83%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-74,027	OH	-398	NY	-246	AK	+10 bp
MI	-46,920	MI	-296	OH	-204	AZ	+10 bp
IL	-42,903	CA	-217	NJ	-195	CA	+10 bp
MA	-29,163	IN	-166	FL	-149	CO	+10 bp
NC	-28,474	NY	-105	TX	-123	CT	+10 bp



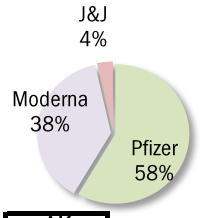
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	531,384,148				+1.443 million
Boosters	75,702,726				+0.812 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	252,458,463	76%	212,601,937	64%	+0.224 million
Age 12 to 17	15,376,864	65%	12,892,739	54%	+0.018 million
Age 18 to 64	170,694,658	84%	144,313,246	71%	+0.110 million
Age 65 and over	57,967,612	100%	49,747,507	91%	+0.016 million

Immunity	Full	Partial
US	62.0%	74.2%
UK	69.8%	76.1%
France	74.1%	78.7%
Spain	81.4%	85.5%
Germany	71.1%	73.9%
Italy	74.5%	80.8%
Australia	77.2%	79.6%
Israel	64.2%	71.3%
Canada	77.5%	83.8%
Japan	78.9%	80.3%
Africa	9.6%	14.7%
India	45.0%	63.2%
Brazil	67.2%	77.8%
China	84.0%	87.2%

Global data differs due to sources, timing



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

Best
Middle
Worst

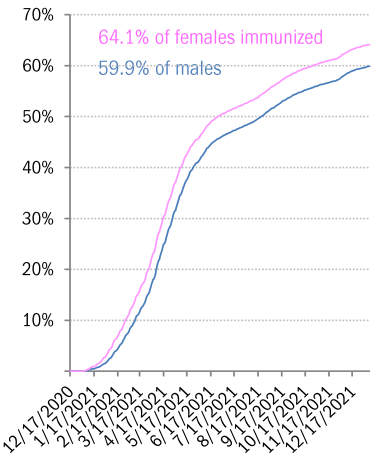
Every American >18 immunized in
362 days
by Jan 5, 2023

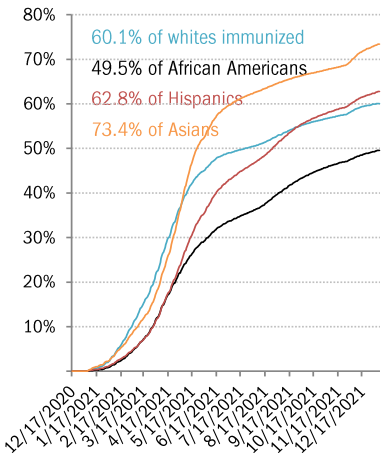
75.2% of population >18 immunized
21.0% previously tested positive
96.1% vs 60% adult herd immunity

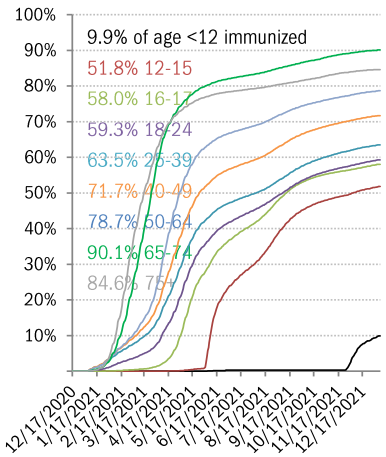
As of Jan 8

					WI					ME
					68.8%					86.7%
					62.4%					76.4%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
76.3%	52.5%	62.4%	62.7%	72.0%	73.0%	64.0%		85.2%	90.1%	95.0%
68.3%	46.4%	54.3%	53.0%	65.9%	64.7%	57.2%		72.4%	78.0%	67.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
74.5%	70.4%	56.4%	71.7%	65.4%	58.4%	61.0%	79.4%	84.8%	91.8%	
66.8%	56.9%	47.9%	57.6%	59.4%	52.3%	55.7%	64.4%	71.1%	75.1%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
83.9%	67.9%	75.2%	66.9%	62.8%	63.0%	62.4%	79.8%	81.2%	90.0%	90.5%
66.8%	59.3%	66.7%	60.3%	53.3%	54.6%	55.4%	68.4%	70.9%	75.2%	77.1%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	68.1%	81.5%	70.1%	63.4%	59.2%	77.9%	63.5%	89.7%	77.6%	
	57.5%	66.7%	57.5%	51.6%	51.7%	57.2%	53.5%	68.1%	64.7%	
			OK	LA	MS	AL	GA			
			66.9%	58.0%	56.4%	59.1%	61.7%			
			53.9%	50.6%	48.8%	48.0%	51.4%			
HI			TX					FL		PR
90.9%			67.6%					75.2%		89.7%
64.3%			57.4%					63.8%		77.4%

The demographics of US vaccination



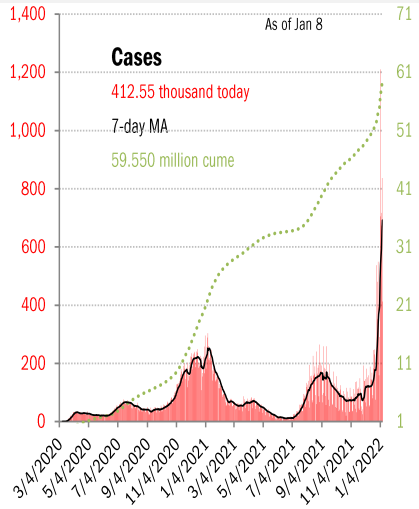


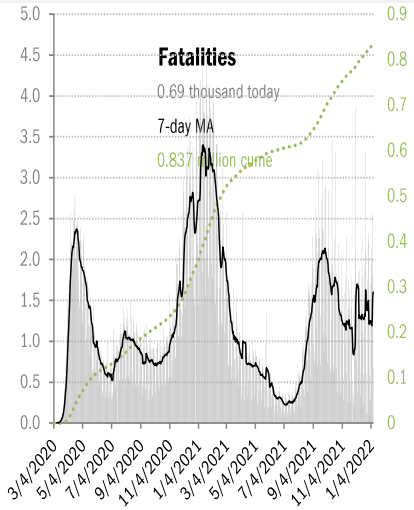


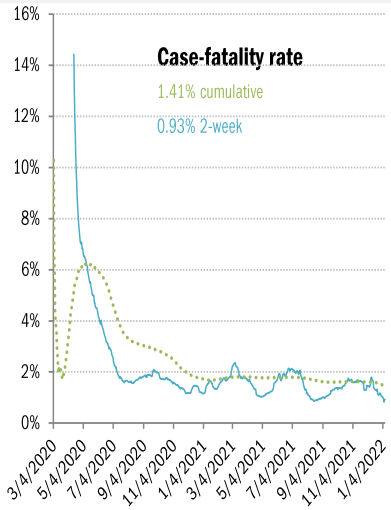
Source: CDC, CDC, Our World in Data, TrendMacro calculations

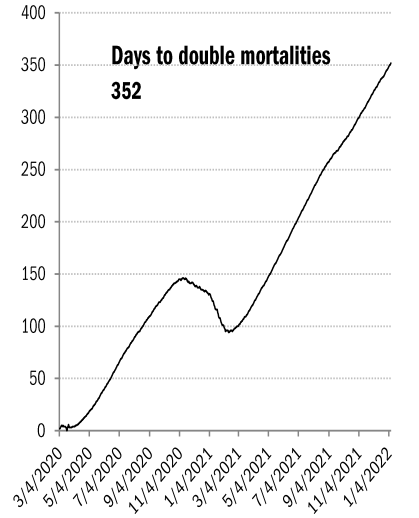
US deep-dive

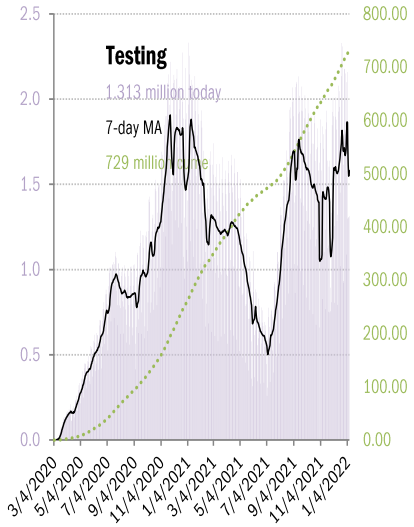
National and state-by-state data do not line up because of different sources

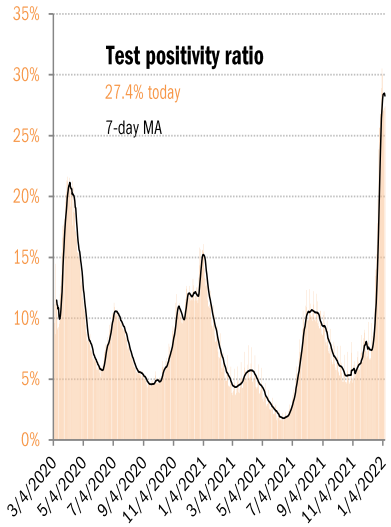


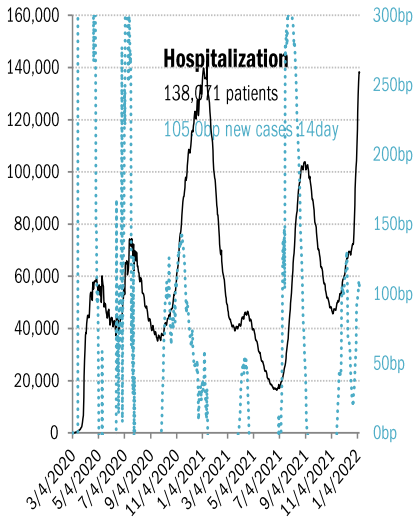


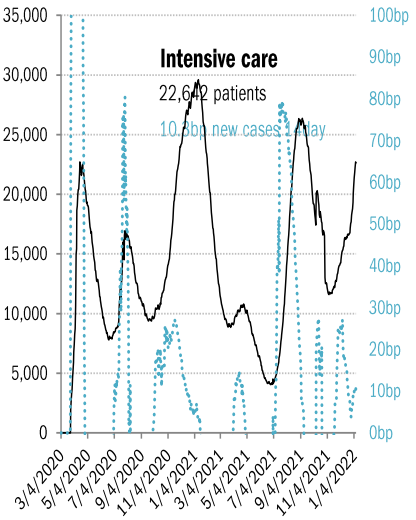


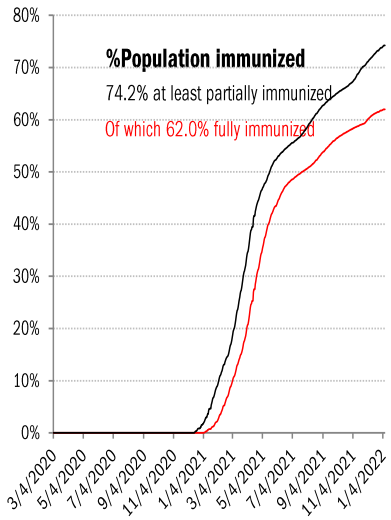












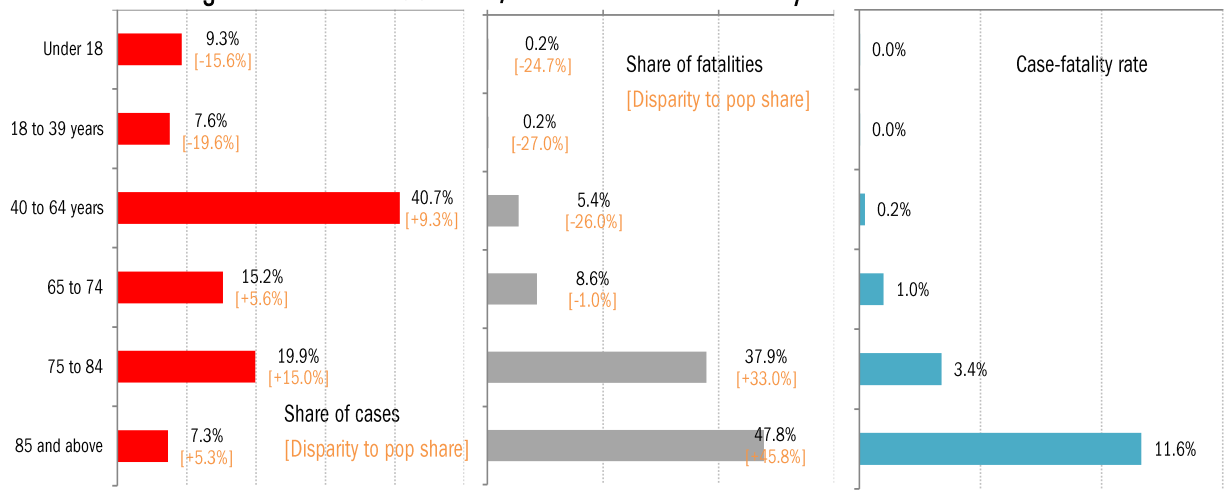
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

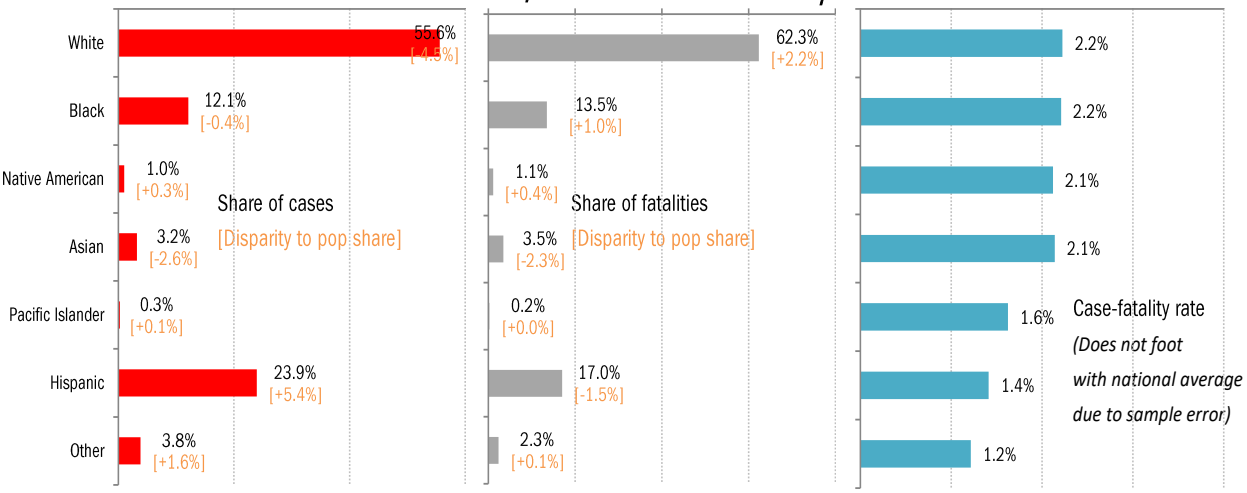
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



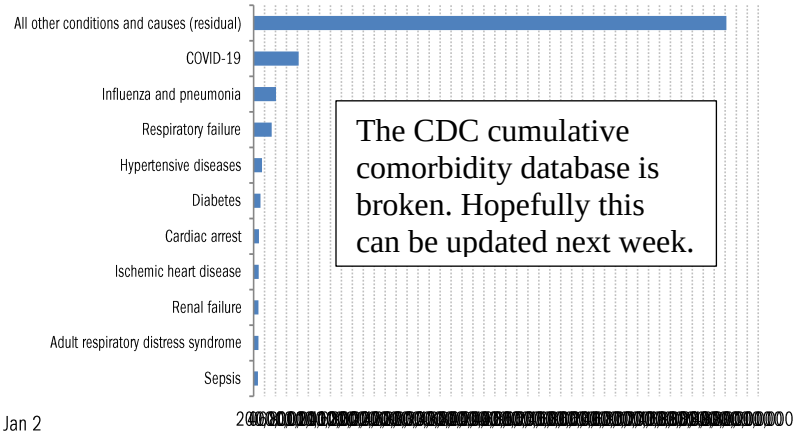
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jan 2

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 to Think About Covid Data Right Now
Lazaro Gamio, Lisa Waananen Jones and Amy Schoenfeld Walker
New York Times
January 7, 2022

Early signals of significantly increased vaccine breakthrough, decreased hospitalization rates, and less severe disease in patients with COVID-19 caused by the Omicron variant of SARS-CoV-2 in Houston, Texas
https://www.medrxiv.org/content/10.1101/2021.12.30.21268560v2
medRvx
January 4, 2022

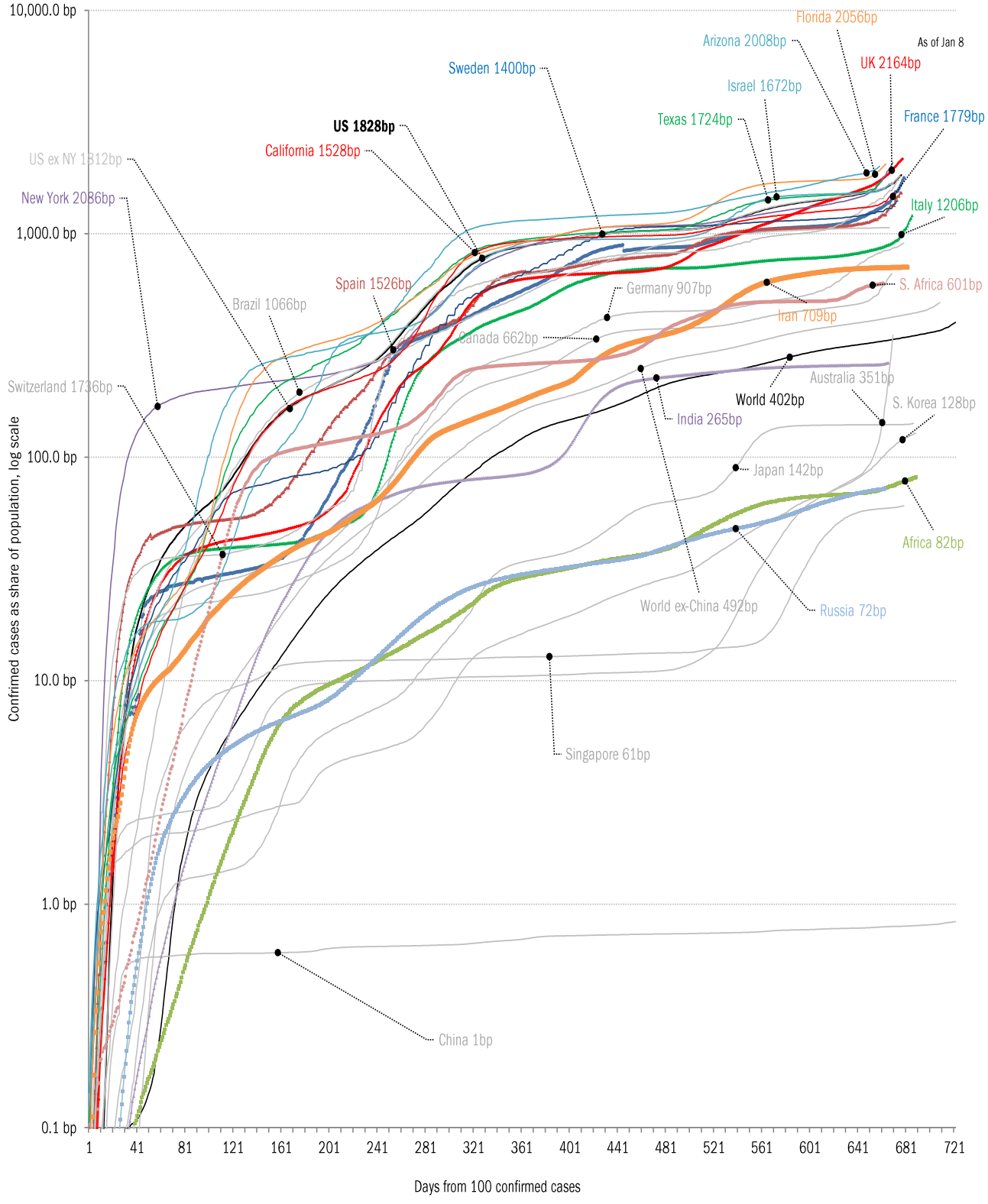
New Omicron Studies Help Explain Why the Variant Is Mild but Spreads Fast
Nidhi Subbaraman
Wall Street Journal
January 8, 2022

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

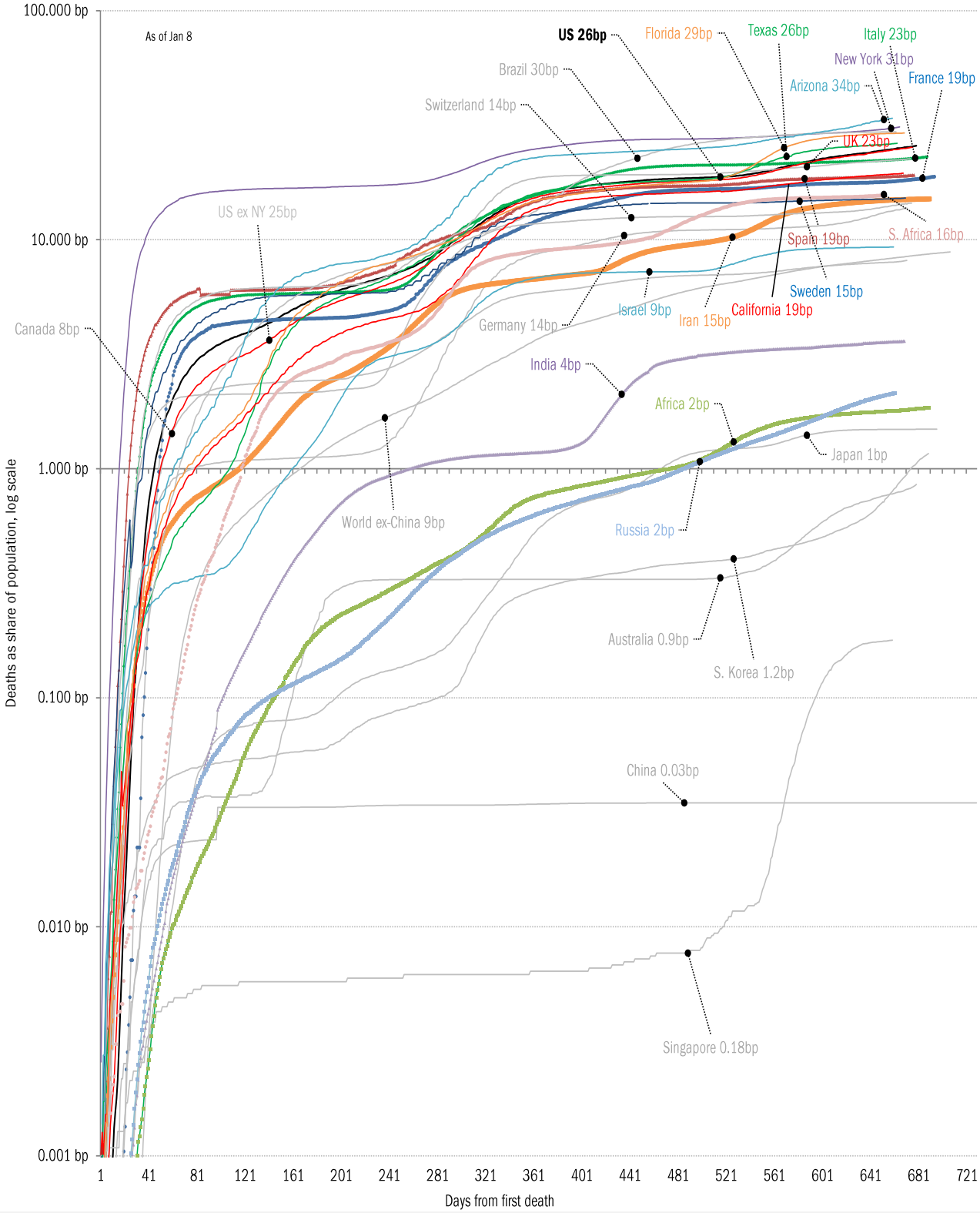
Share of infected population from first day with 100 confirmed cases, log scale



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

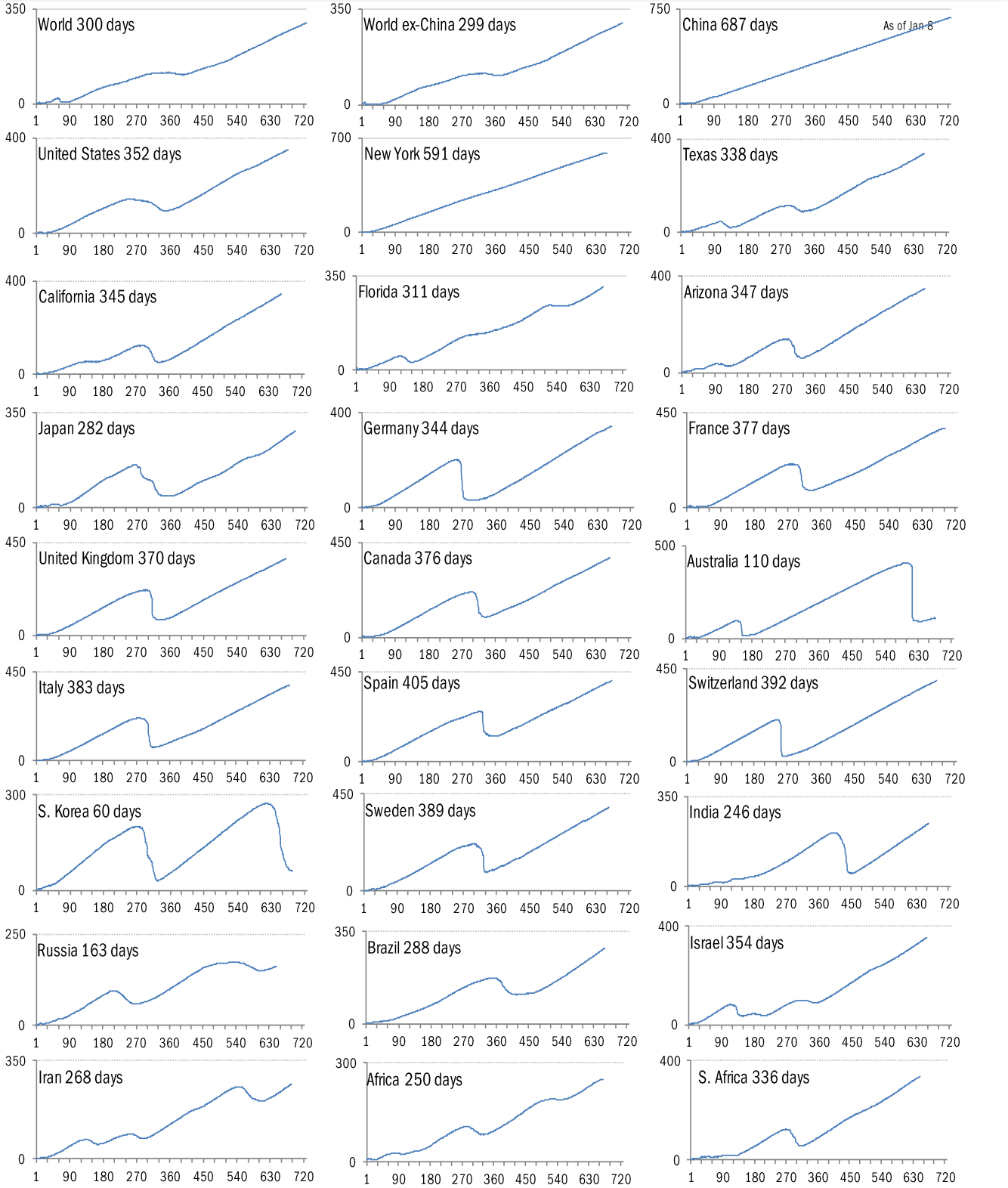


Source: Johns Hopkins, TrendMacro calculations

"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

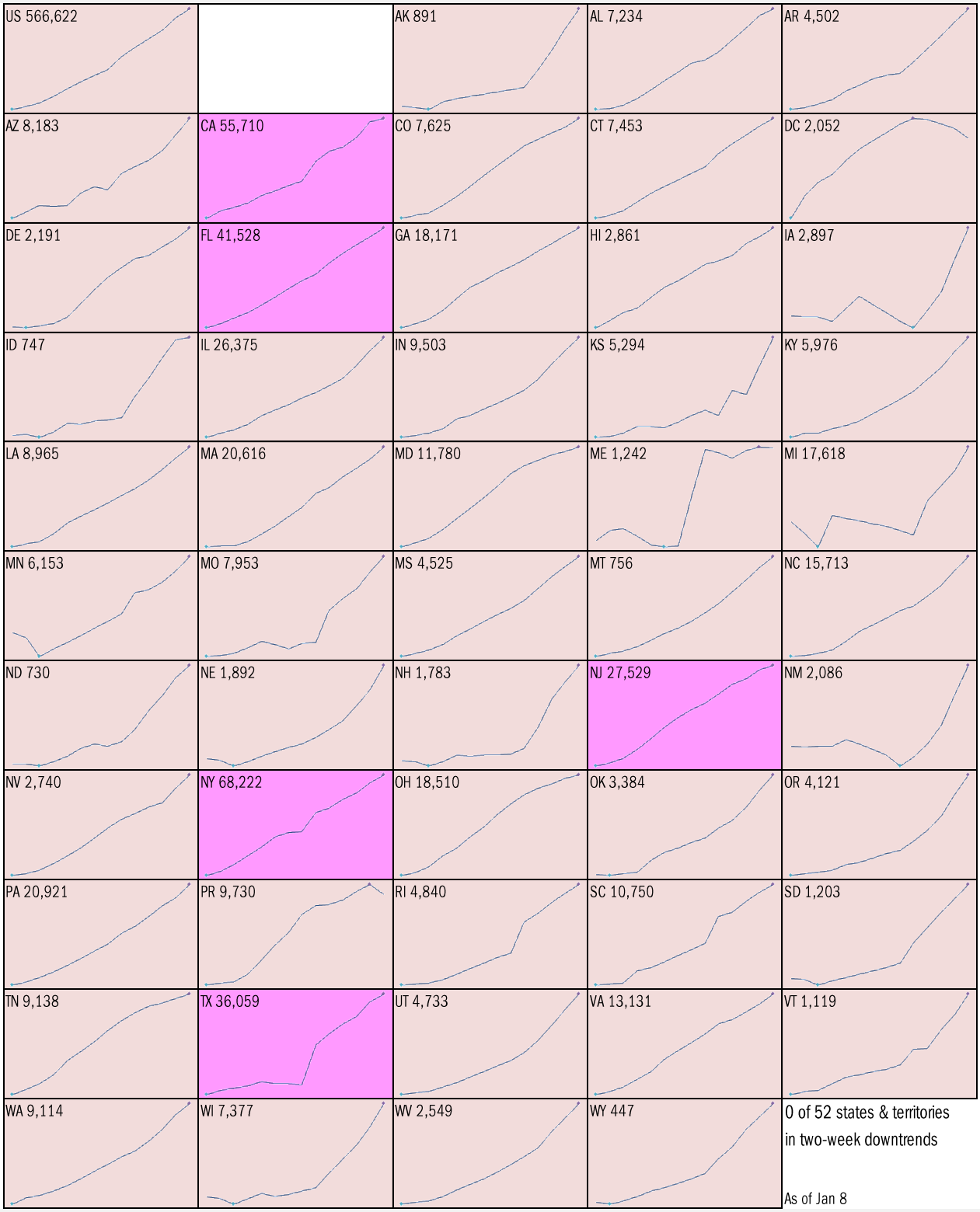


Source: Johns Hopkins, TrendMacro calculations

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

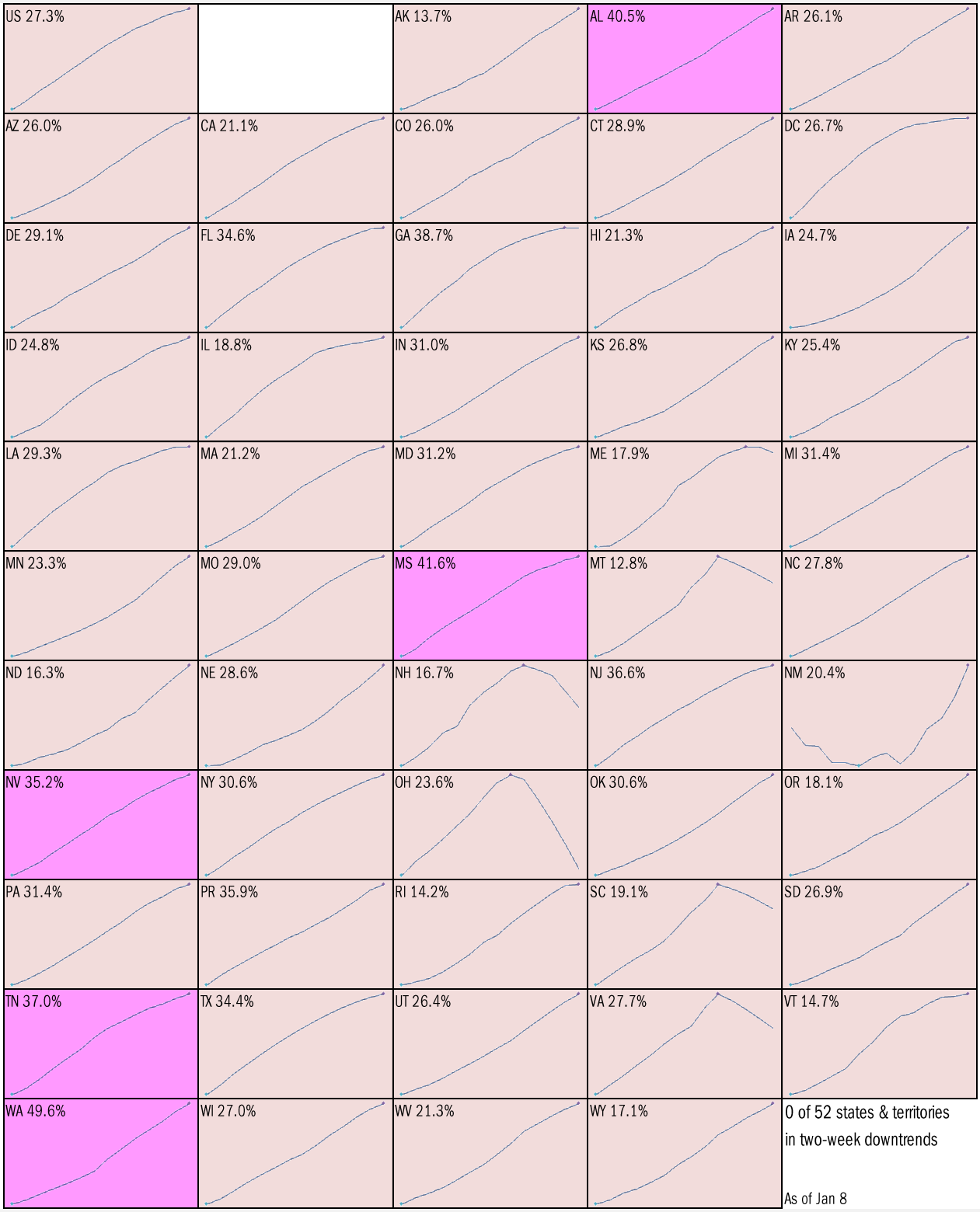


Source: Johns Hopkins, TrendMacro calculations

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

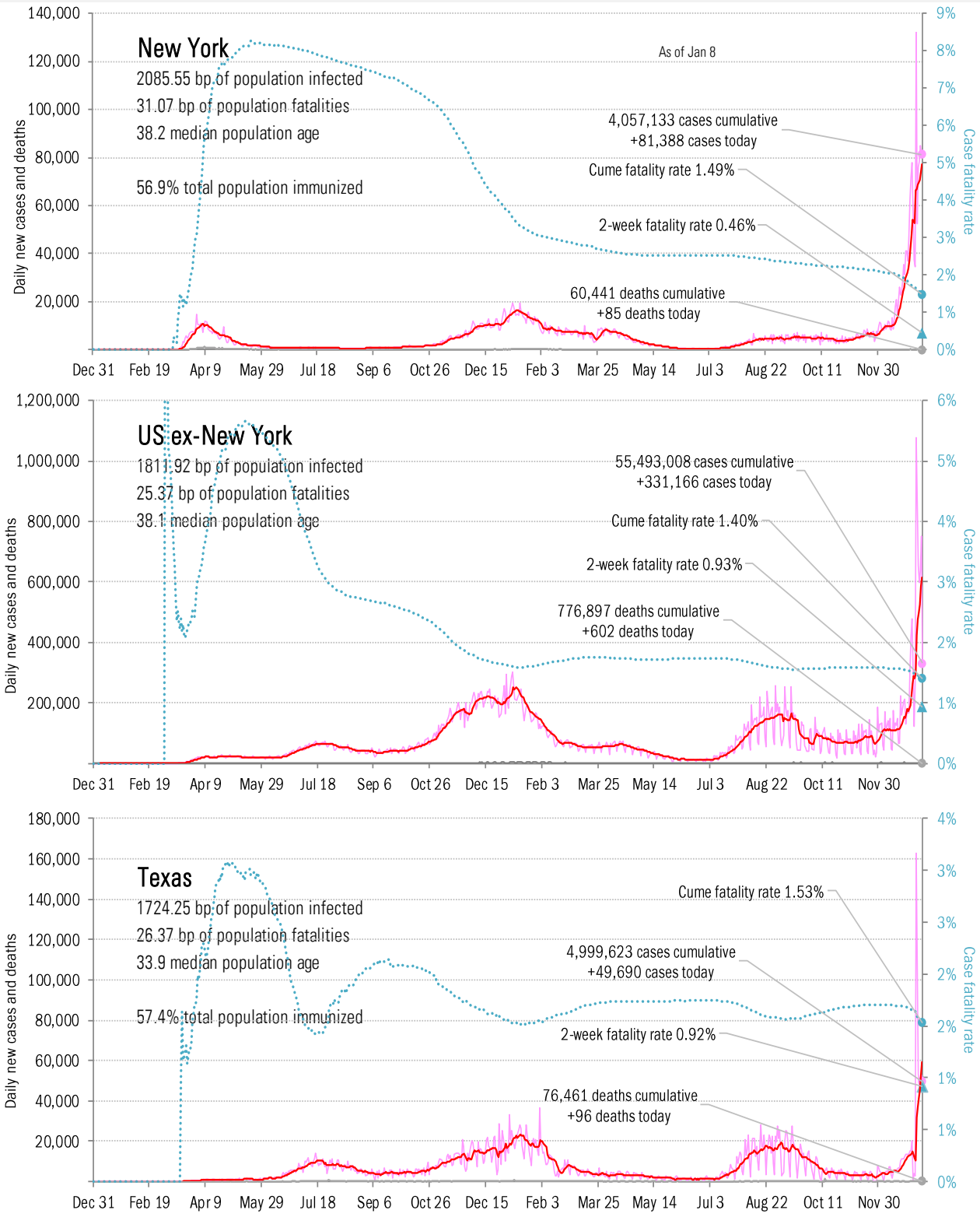
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

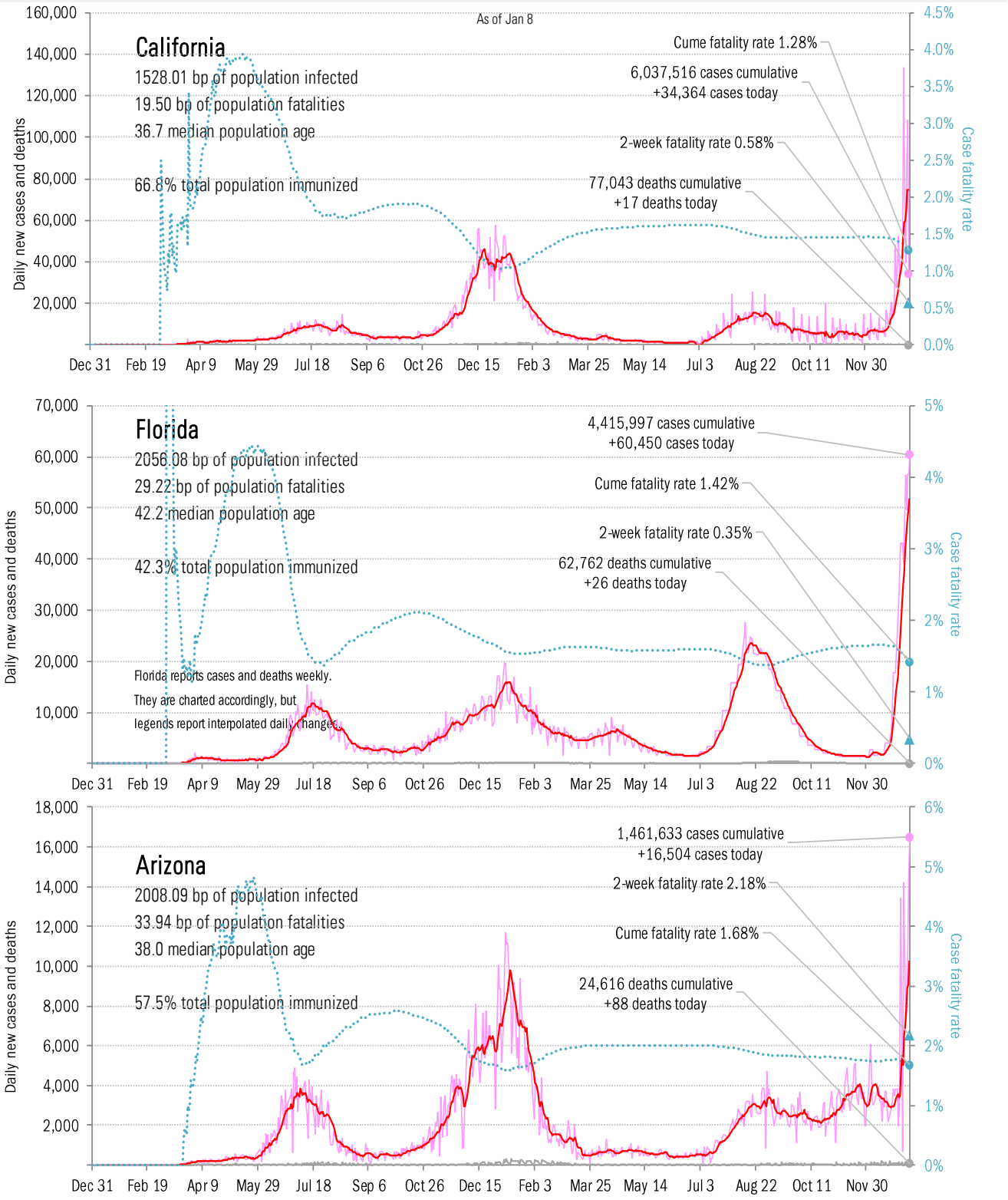
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

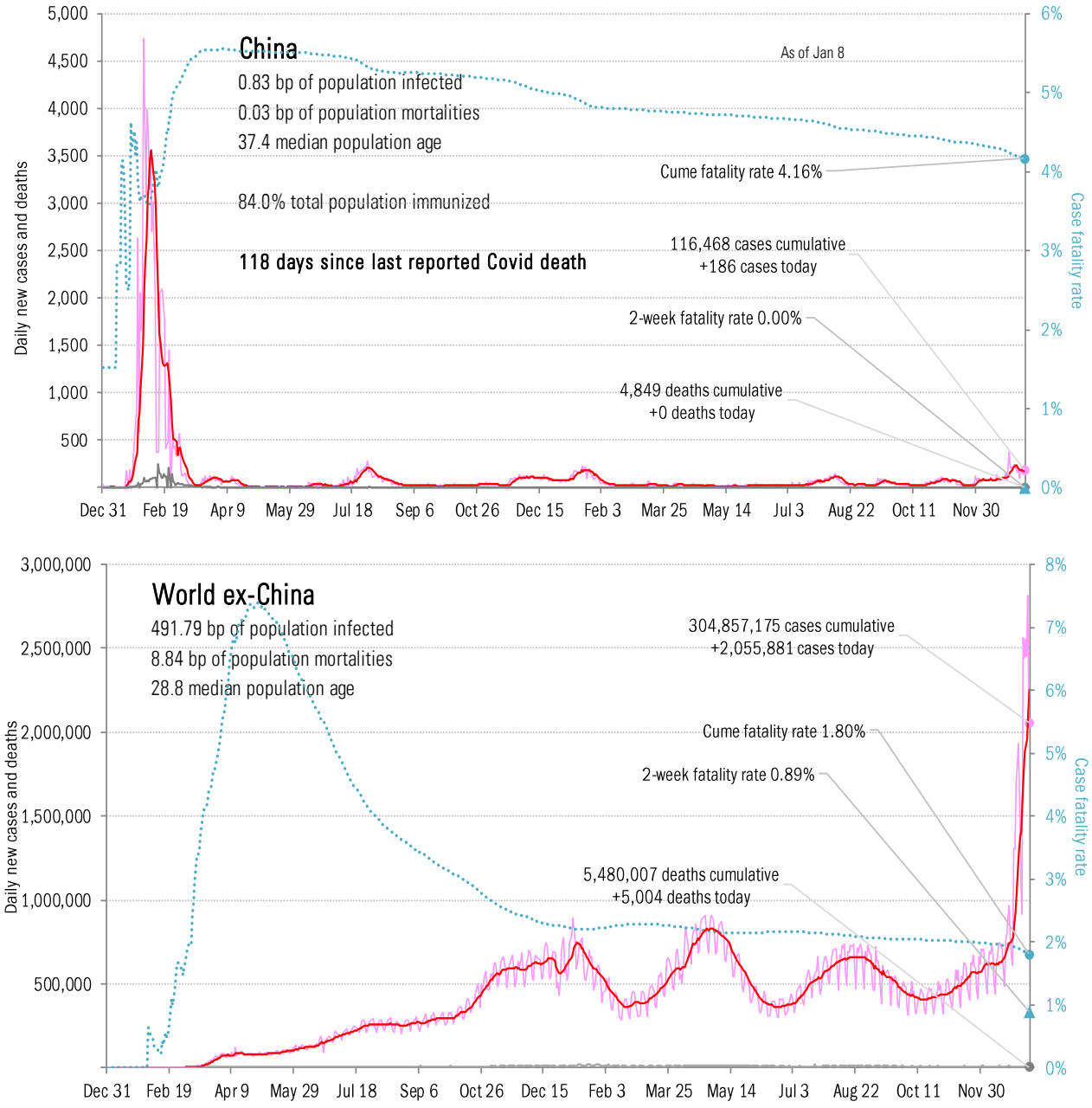
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

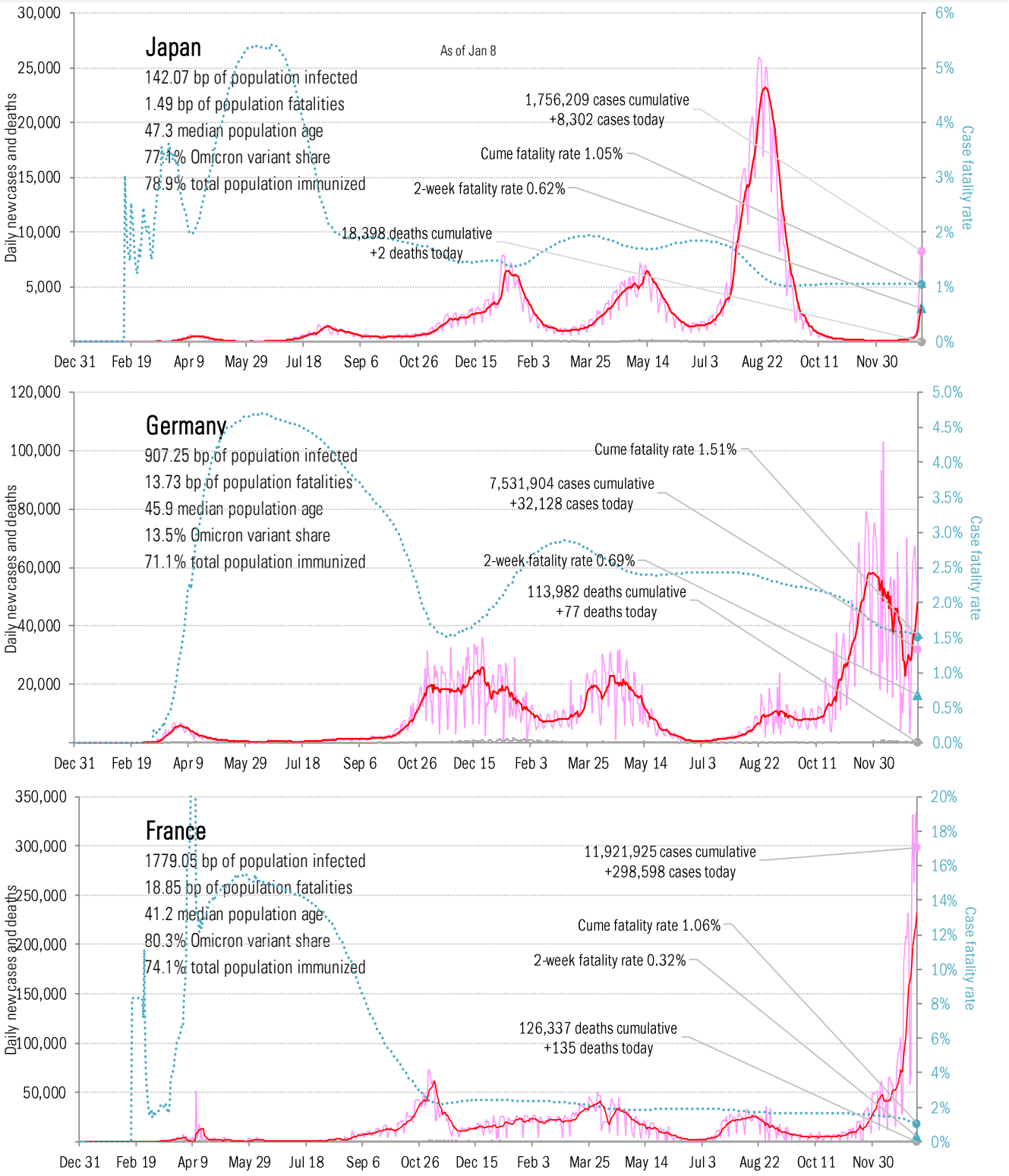
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

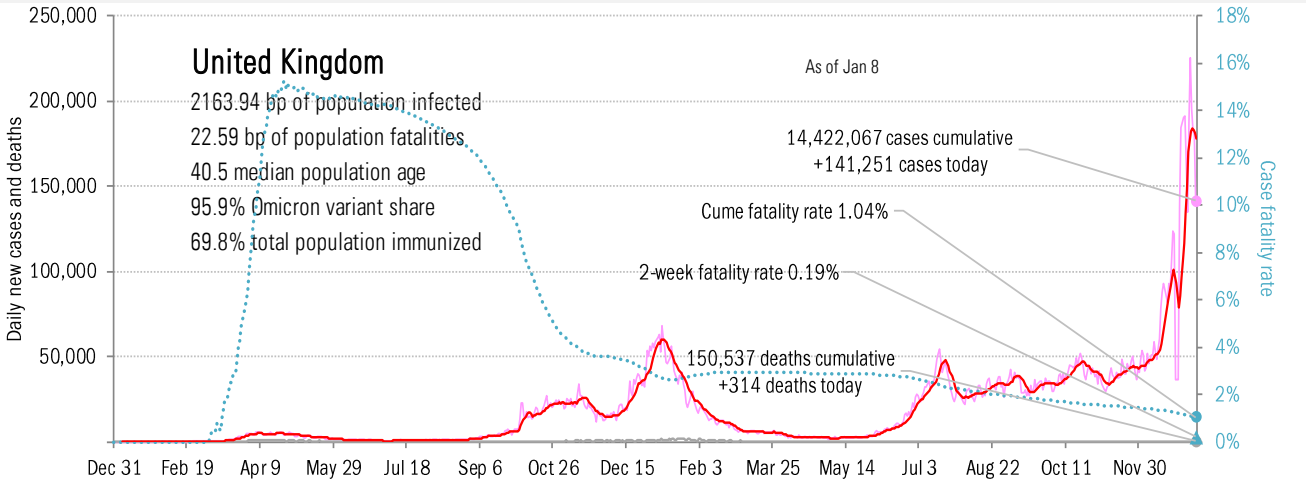
Cases: 7-day average and daily Deaths: Daily

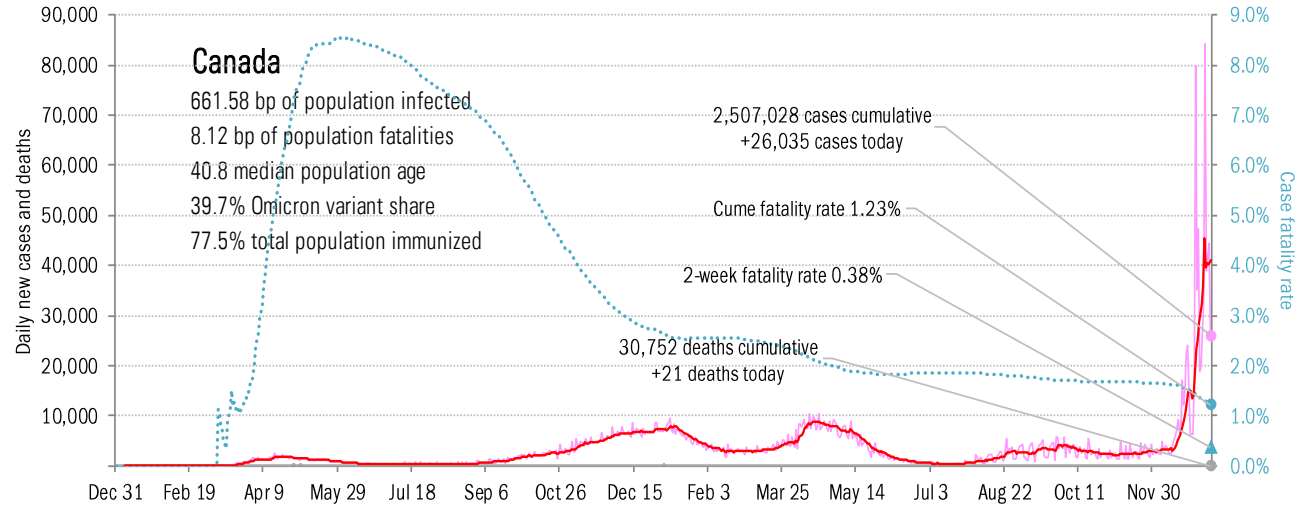


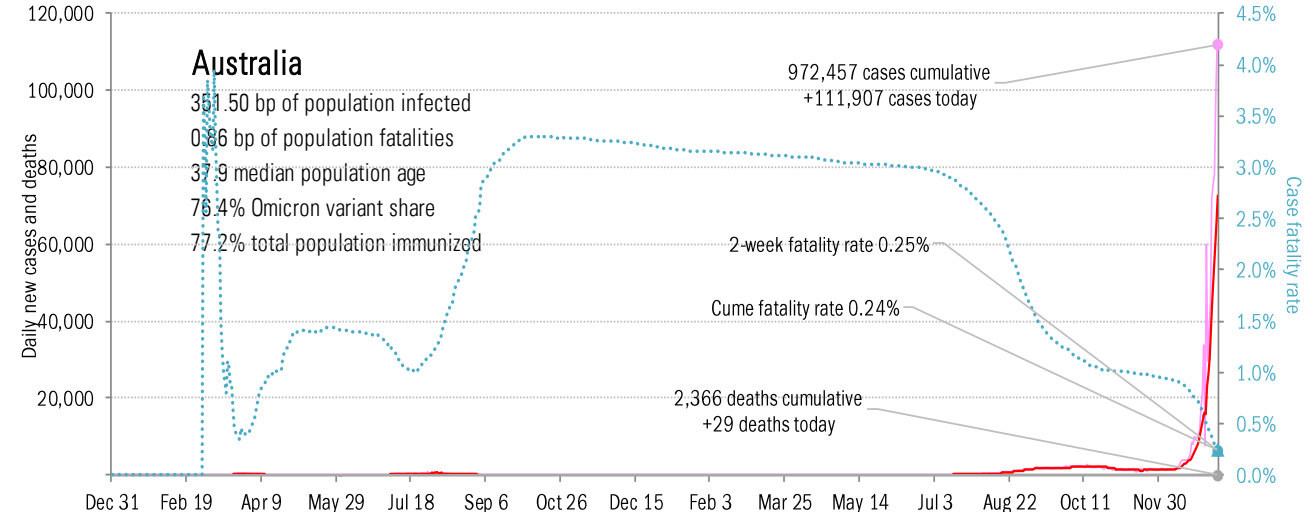
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily



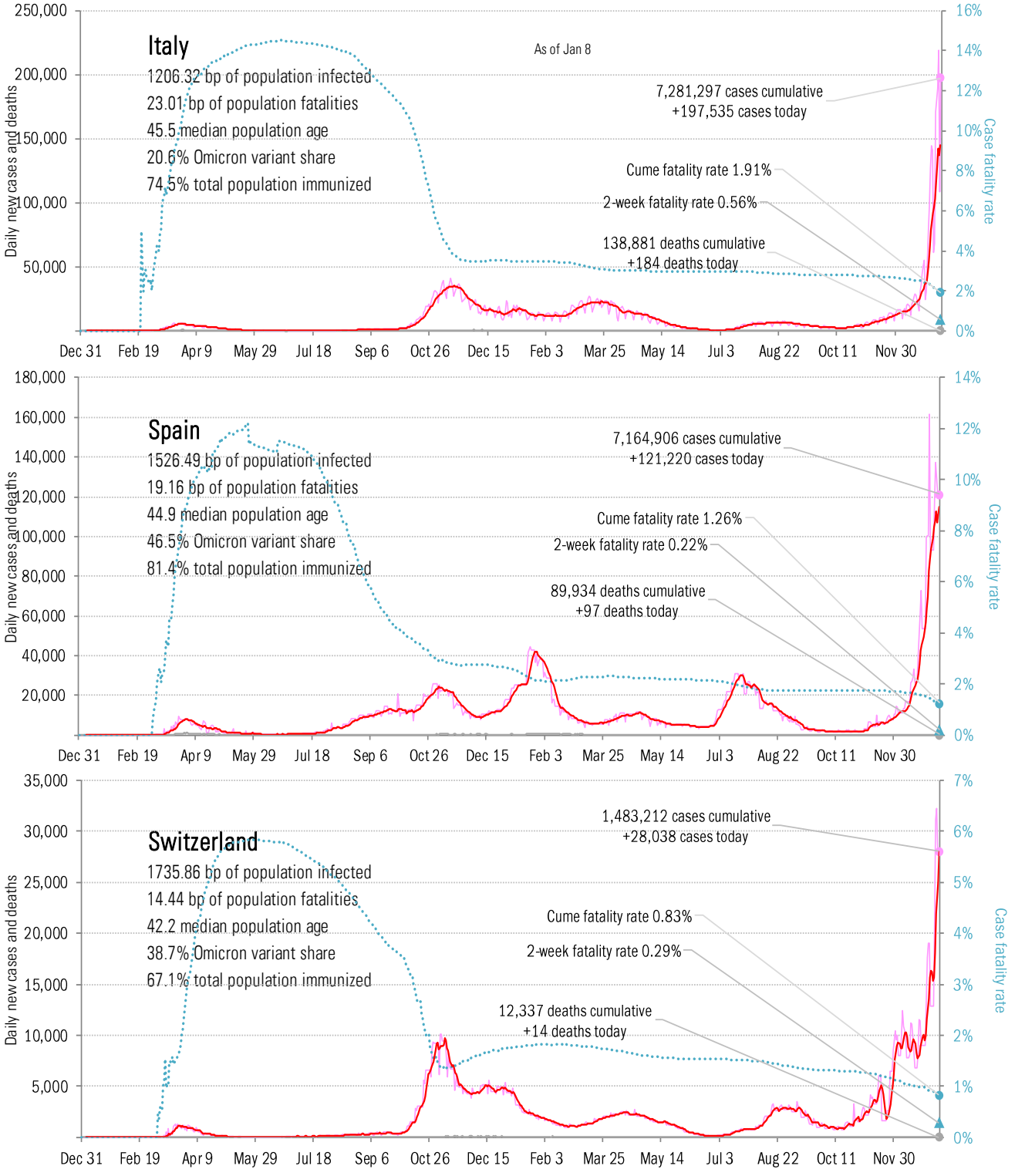




Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

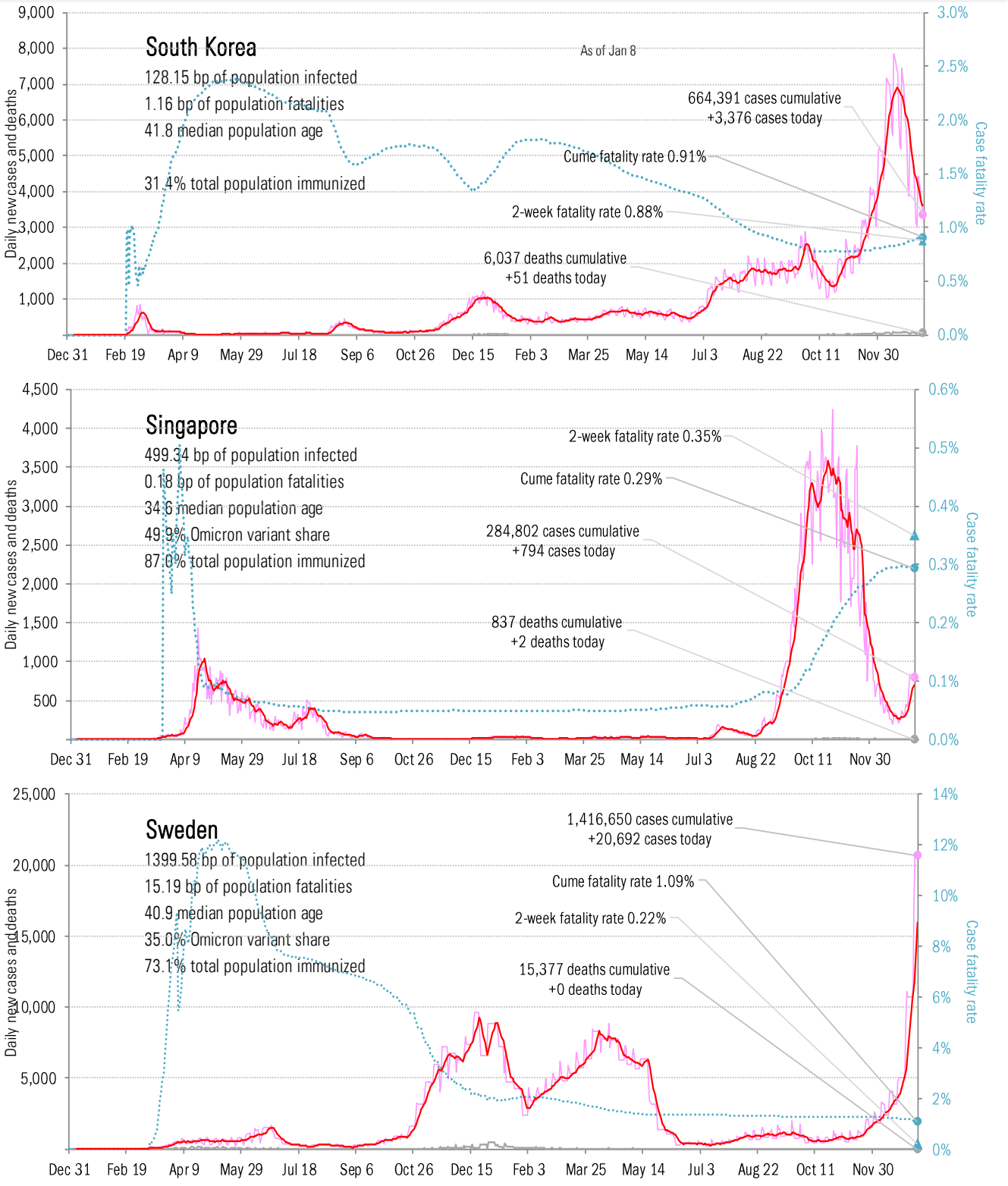
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

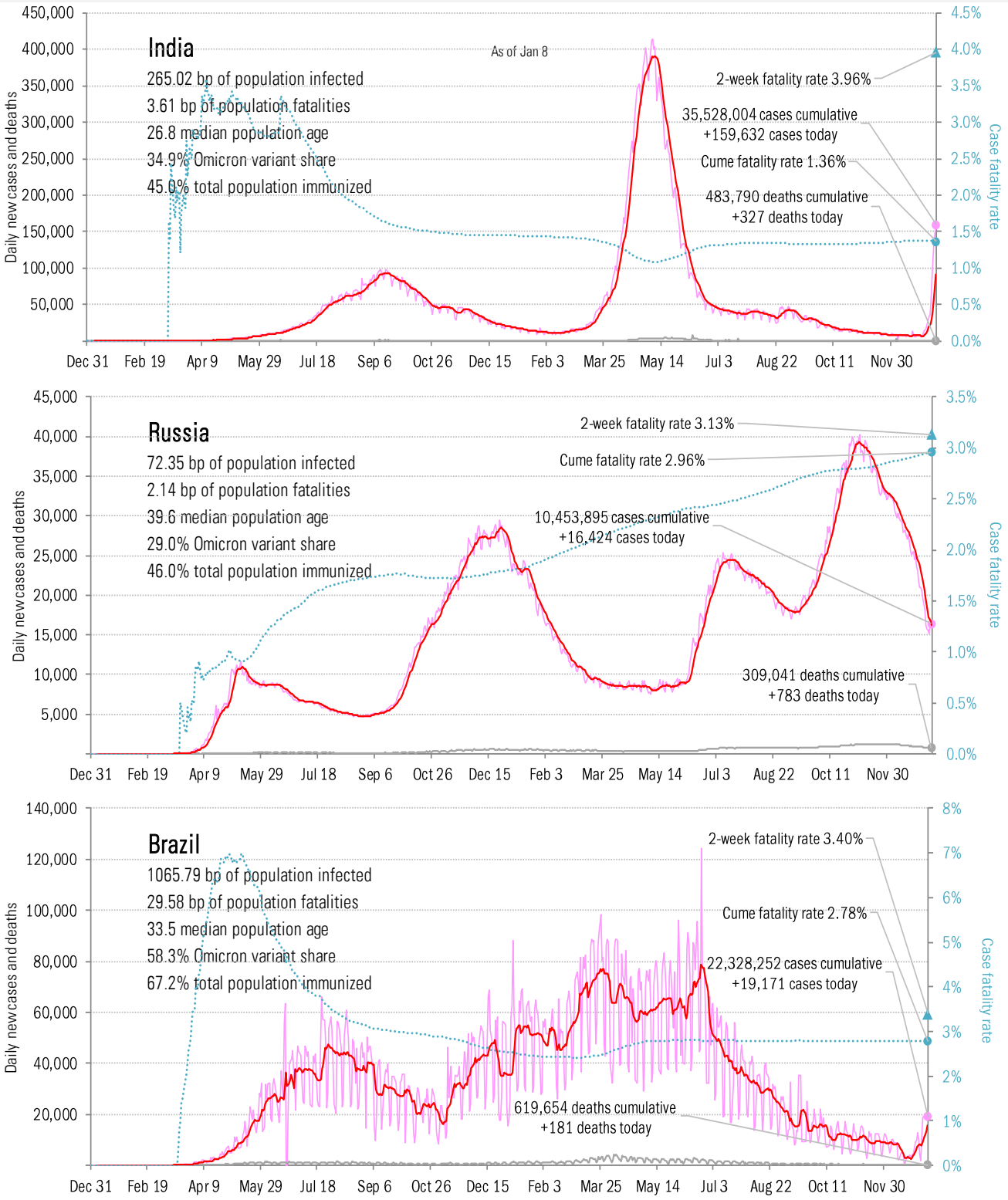
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

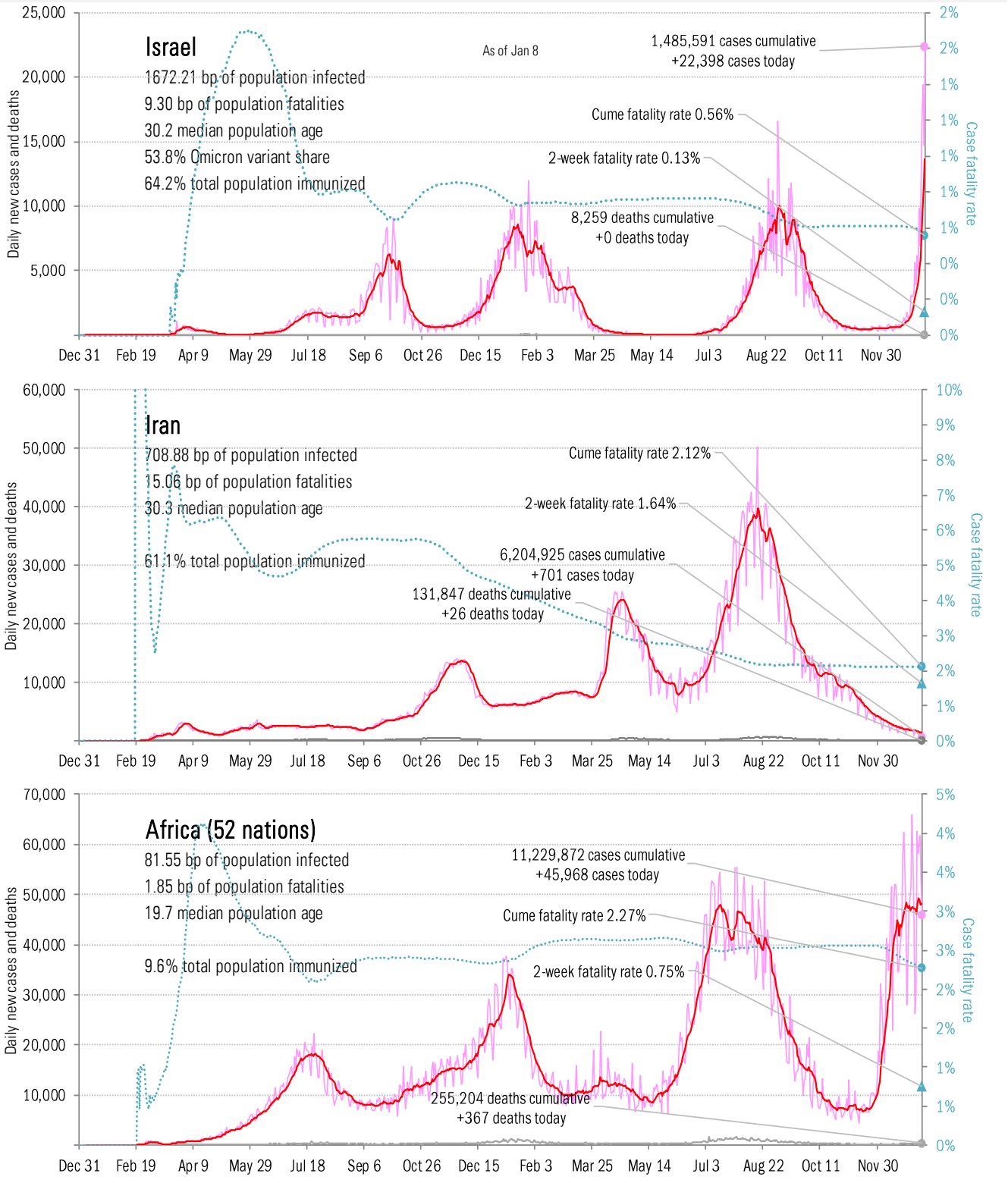
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

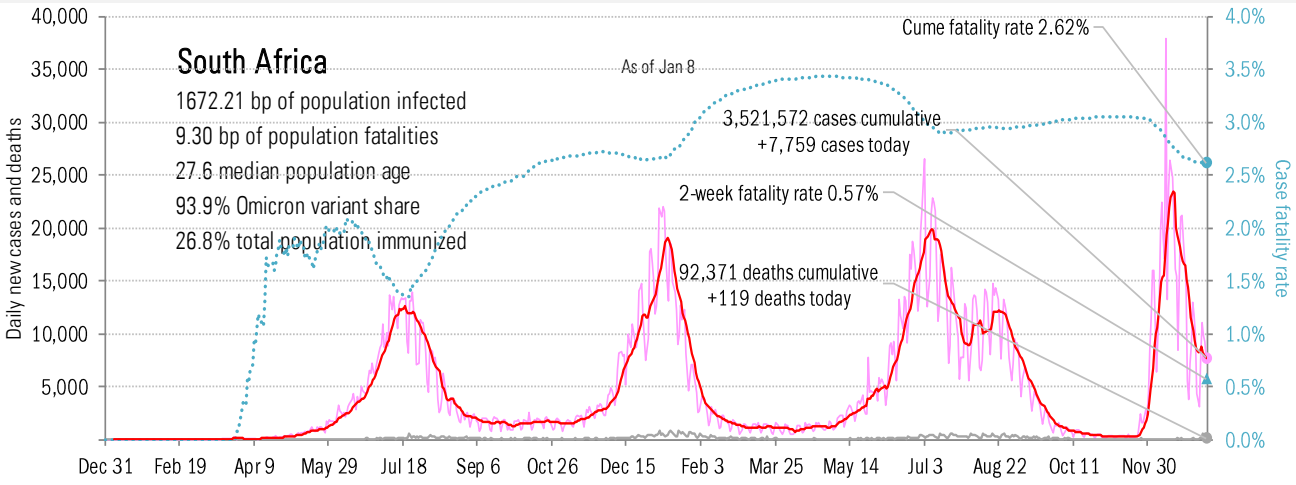
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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