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

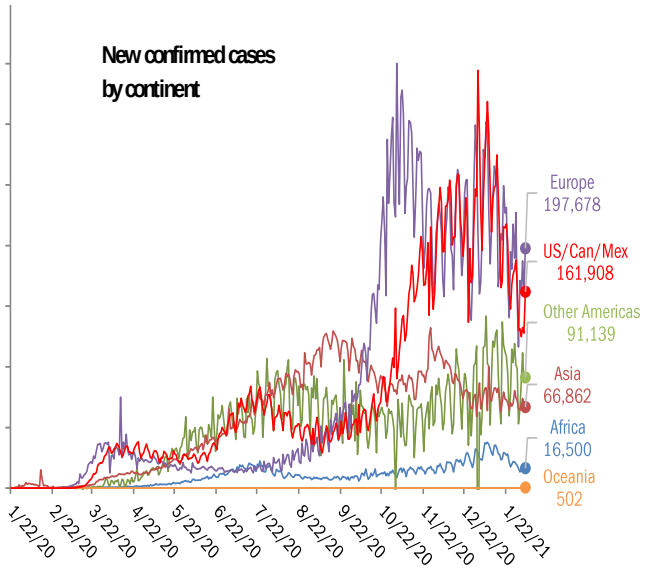
Data Insights: Covid-2019 Monitor

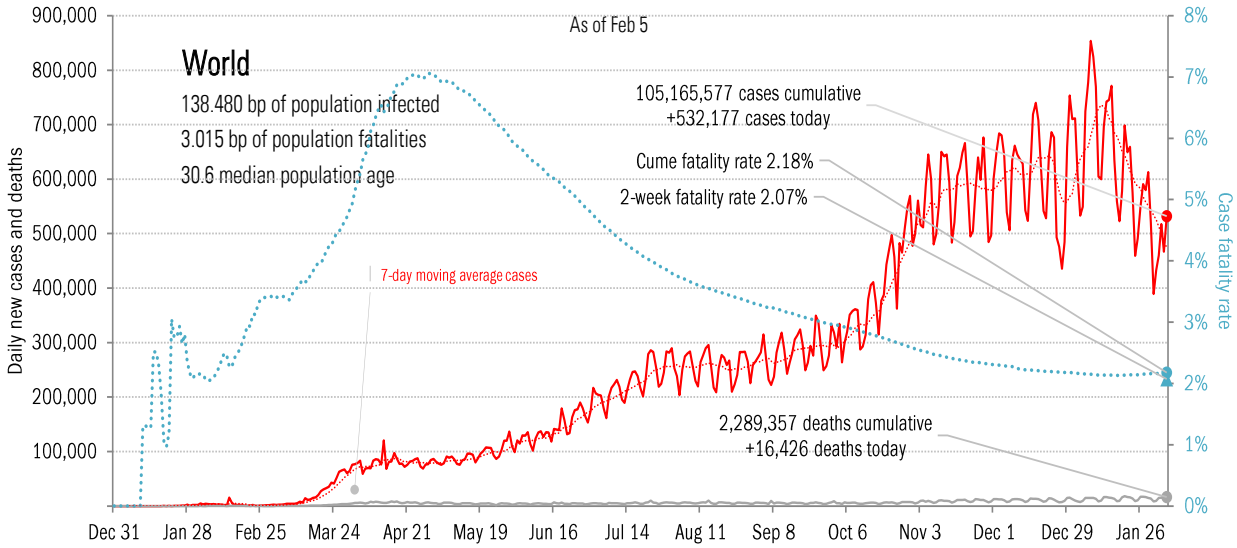
Saturday, February 6, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+131,146	United States	+3,543
Brazil	+50,872	Mexico	+3,050
France	+45,607	Brazil	+1,239
Spain	+28,565	United Kingdom	+1,015
Mexico	+26,626	France	+1,008
United Kingdom	+19,204	Germany	+690
Russia	+16,444	Spain	+584
Italy	+14,213	Russia	+515
Indonesia	+11,749	Italy	+377
India	+11,713	Poland	+368
	+356,139		+12,389
World	+532,177	World	+16,426
Top ten	67%	Top ten	75%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

For more information contact us:
Donald Luskin: 312 273 6766 don@trendmacro.com
Thomas Demas: 704 552 3625 tdemas@trendmacro.com

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The US scorecard

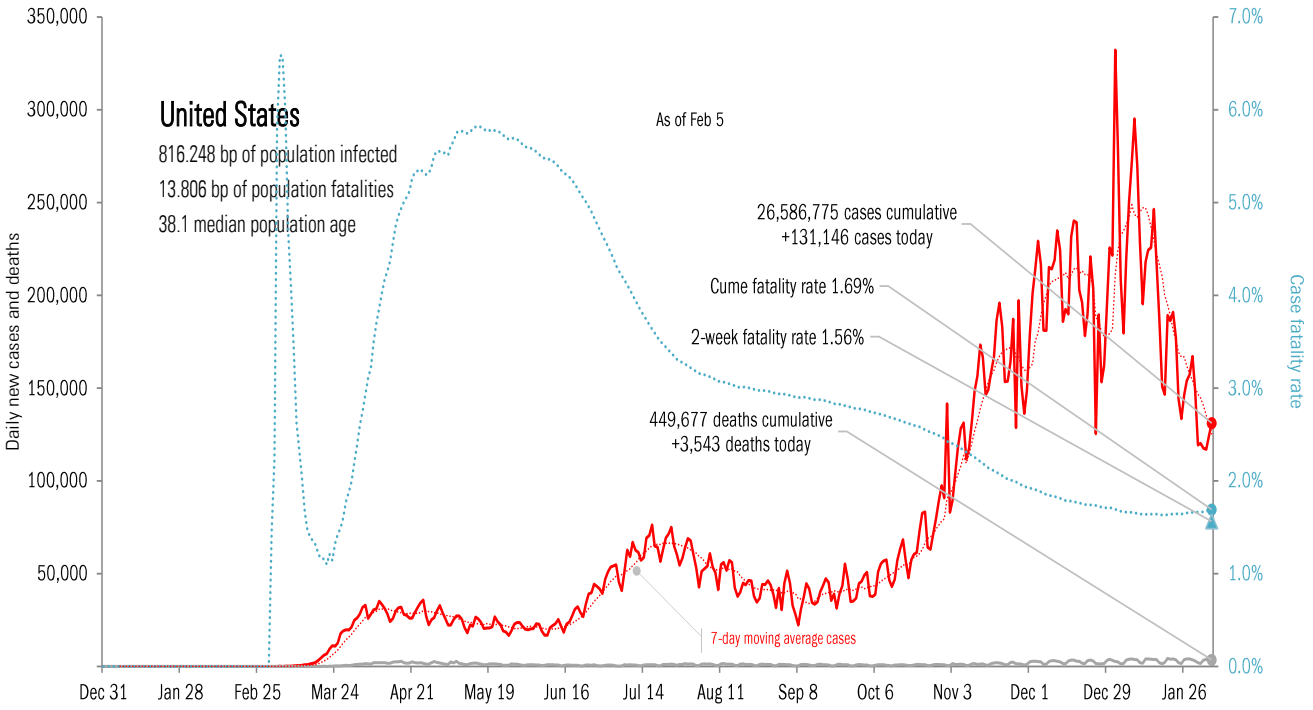
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TX	+14,495	CA	+558	MD	+18	CA	3,308,468	CA	43,024	NY	89,995	RI	101%	GA	89%
CA	+14,021	TX	+401	PR	+8	TX	2,462,886	TX	38,128	FL	75,062	GA	82%	AL	88%
FL	+11,171	FL	+215	HI	+7	FL	1,731,931	NY	35,920	NJ	61,333	SC	81%	RI	87%
NY	+8,777	KS	+206	MO	+7	NY	1,449,495	FL	27,913	AZ	54,309	MA	80%	TX	85%
SC	+6,096	TN	+203	NE	+7	IL	1,141,219	PA	22,239	GA	51,479	CA	80%	OK	84%
NC	+5,547	AZ	+196	AL	+5	GA	932,912	NJ	21,886	OH	47,338	CT	80%	CA	84%
VA	+5,069	NY	+153	DC	+3	OH	914,530	IL	21,603	AL	43,005	FL	80%	NC	84%
GA	+4,842	PA	+138	AK	+1	PA	861,674	MI	15,750	IN	40,891	MD	79%	DC	84%
PA	+4,688	NC	+113	GU	+1	NC	787,349	MA	14,859	MD	32,687	MO	79%	FL	83%
NJ	+4,228	IL	+106	AS	+0	AZ	775,622	GA	14,858	WI	24,734	PA	78%	MO	82%
	+78,934		+2,289		+57		14,366,086		256,180		520,833				
All states	+131,146		+3,543		-2295	All states	26,586,775		449,677		822,320	All states	74%		75%
Top ten	60%		65%		-2%	Top ten	54%		57%		63%	Median	72%		73%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
LA	-1,894	IN	-1,497	NJ	-131	TX	+22,590
AL	-1,271	CA	-97	MI	-80	OH	+6,310
IN	-878	AL	-78	CO	-54	PA	+3,938
GA	-864	GA	-67	IN	-54	TN	+3,510
TX	-786	MI	-56	UT	-52	OK	+2,829



Source: Covid Tracking Project, Dept. of Health and Human Services, CDC, TrendMacro calculations

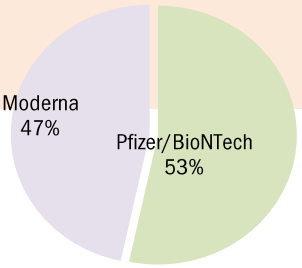
Rolling out the vaccines in the US

US overall	Over last day
58.38 million doses distributed	+0.89 million/day
36.82 million doses administered	+1.62 million/day
28.91 million persons with one or more shot	+1.00 million/day
7.50 million persons with two or more shots	+0.58 million/day
4.42 million shots long-term care residents/staff	+0.21 million/day

63.1% of distributed doses administered

11.2% of US pop at least 1 shot **2.3% 2 shots**

98.7% of LTC at least 1 shot **20.1% 2 shots**



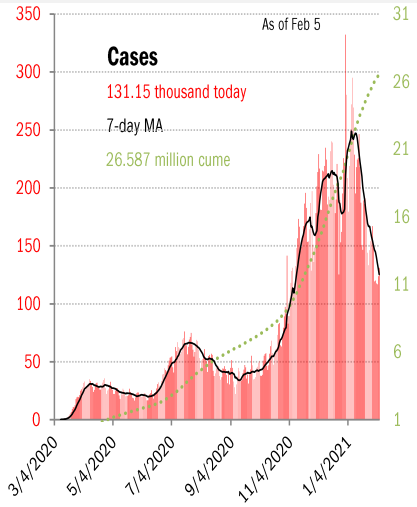
State	
Doses distributed as % population	Best
One shot received as % population	Middle
Two shots received as % population	Worst

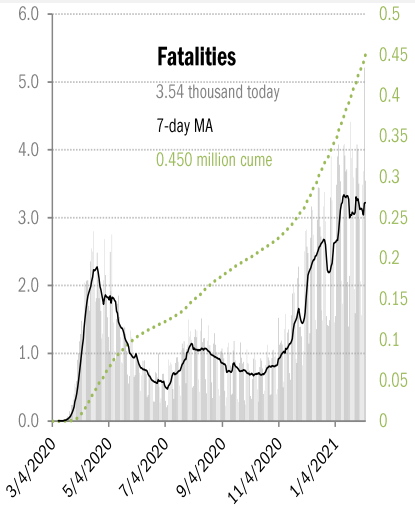
AK											ME
33.6%											18.9%
13.8%											8.9%
4.5%											2.9%
						WI				VT	NH
						15.9%				18.6%	18.0%
						8.4%				9.2%	8.3%
						1.7%				3.6%	3.0%
WA	ID	MT	ND	MN	IL	MI			NY	MA	
15.4%	14.7%	15.3%	17.3%	16.6%	16.5%	16.4%			17.4%	18.1%	
8.6%	6.7%	8.6%	10.3%	8.2%	7.6%	8.7%			8.3%	7.8%	
2.1%	1.6%	2.9%	4.0%	2.3%	2.1%	2.5%			2.2%	2.1%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI	
17.4%	13.8%	17.6%	17.3%	16.1%	16.6%	16.3%	17.9%	16.2%	18.7%	16.9%	
9.0%	8.2%	9.3%	9.7%	6.8%	8.4%	8.0%	7.8%	8.2%	10.9%	7.4%	
2.5%	1.6%	2.2%	4.0%	2.4%	2.1%	2.1%	2.2%	1.8%	3.0%	2.7%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE		
17.1%	15.4%	17.2%	17.9%	15.6%	16.7%	18.3%	16.3%	16.7%	16.6%		
8.2%	8.5%	8.6%	7.6%	6.7%	8.7%	11.4%	9.4%	7.9%	9.5%		
1.7%	2.5%	2.8%	2.9%	1.9%	2.1%	4.9%	1.9%	1.9%	2.2%		
	AZ	NM	KS	AR	TN	NC	SC	DC			
	16.3%	17.4%	16.9%	17.7%	16.2%	16.4%	13.3%	23.7%			
	8.2%	11.1%	7.1%	9.1%	7.3%	8.6%	8.1%	9.9%			
	1.7%	3.4%	1.9%	2.4%	3.2%	2.0%	1.9%	3.2%			
			OK	LA	MS	AL	GA				
			17.7%	16.1%	16.7%	16.3%	15.9%				
			9.9%	8.7%	8.0%	7.2%	8.1%				
			2.9%	2.8%	1.3%	1.6%	1.6%				
HI			TX					FL		PR	
18.6%			14.6%					17.7%		19.5%	
8.9%			7.8%					8.4%		6.9%	
2.4%			2.3%		As of Feb 5			2.0%		2.0%	

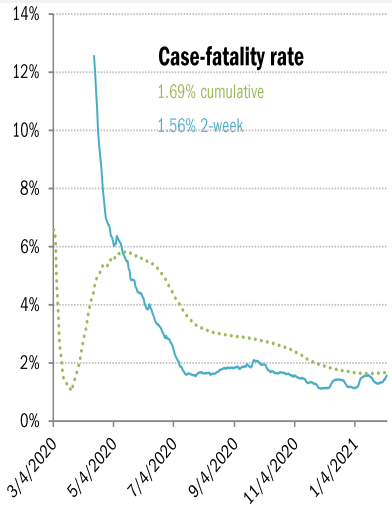
Source: CDC, CDC, TrendMacro calculations

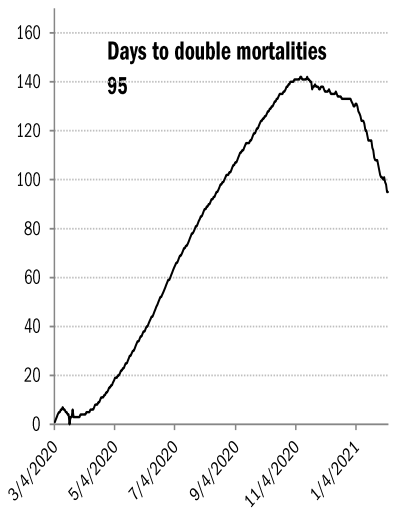
US deep-dive

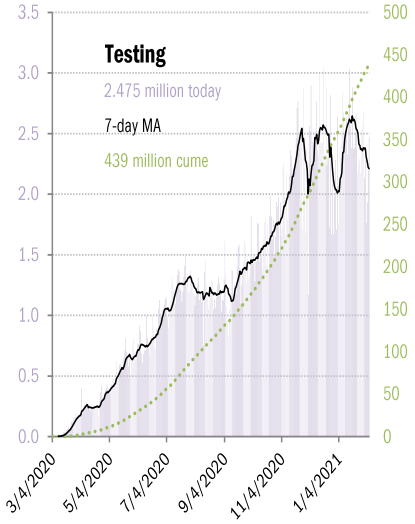
National and state-by-state data do not line up because of different sources

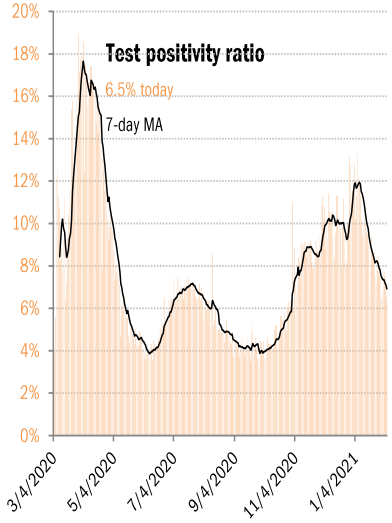


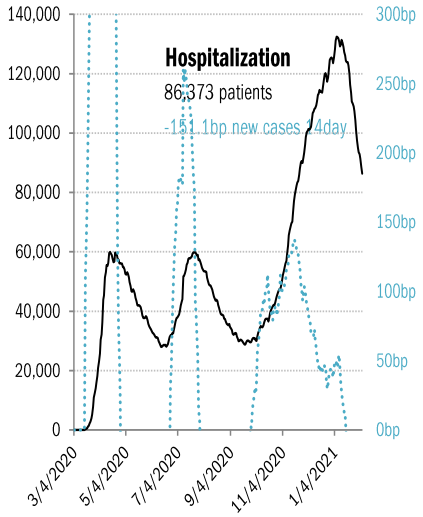


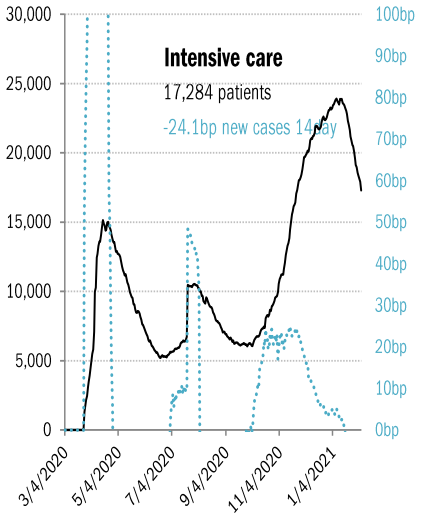


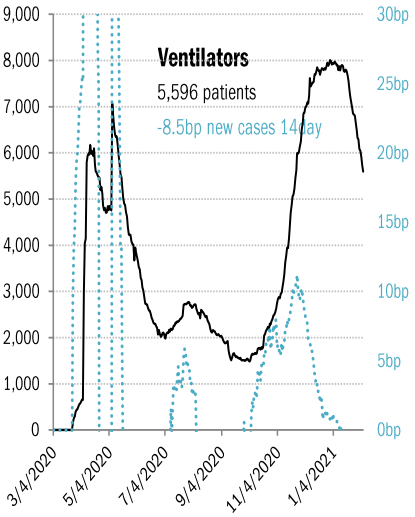






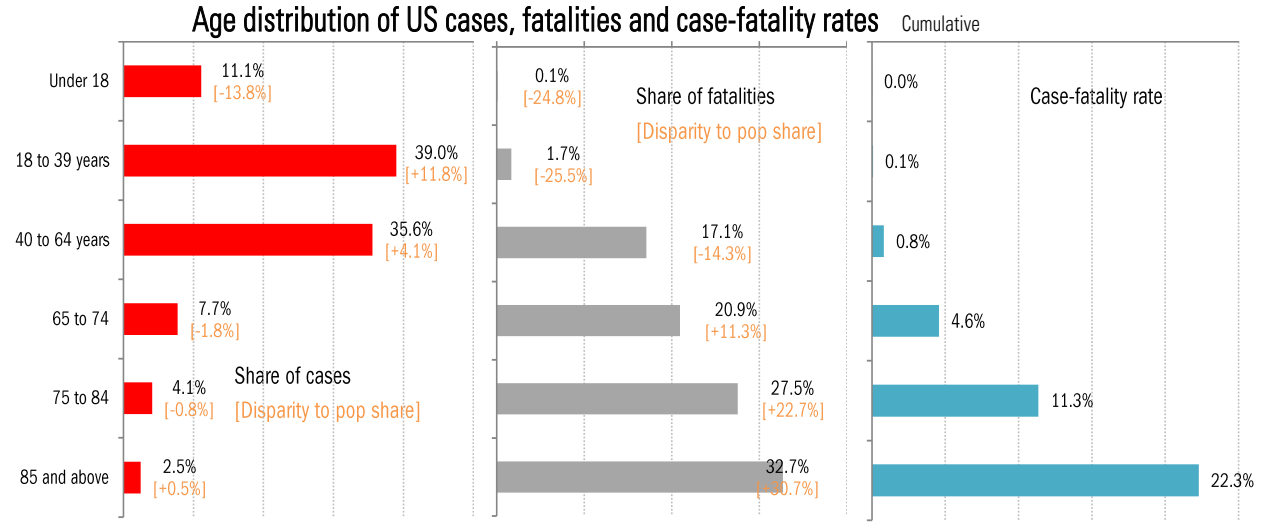


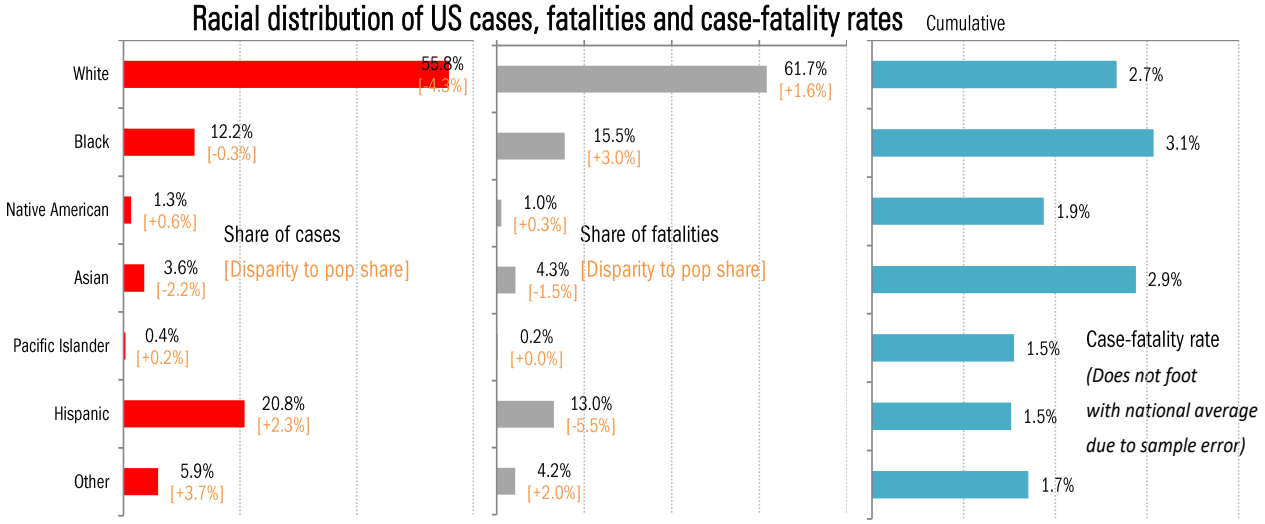


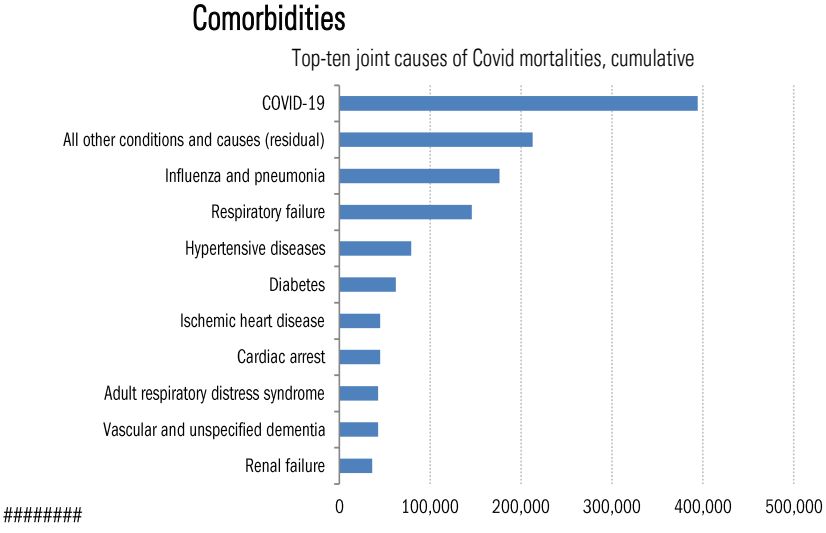


Source: Covid Tracking Project, TrendMacro calculations

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







For 6% of the deaths, COVID-19 was the only cause mentioned. For deaths with conditions or causes in addition to COVID-19, on average, there were 2.9 additional conditions or causes per death.

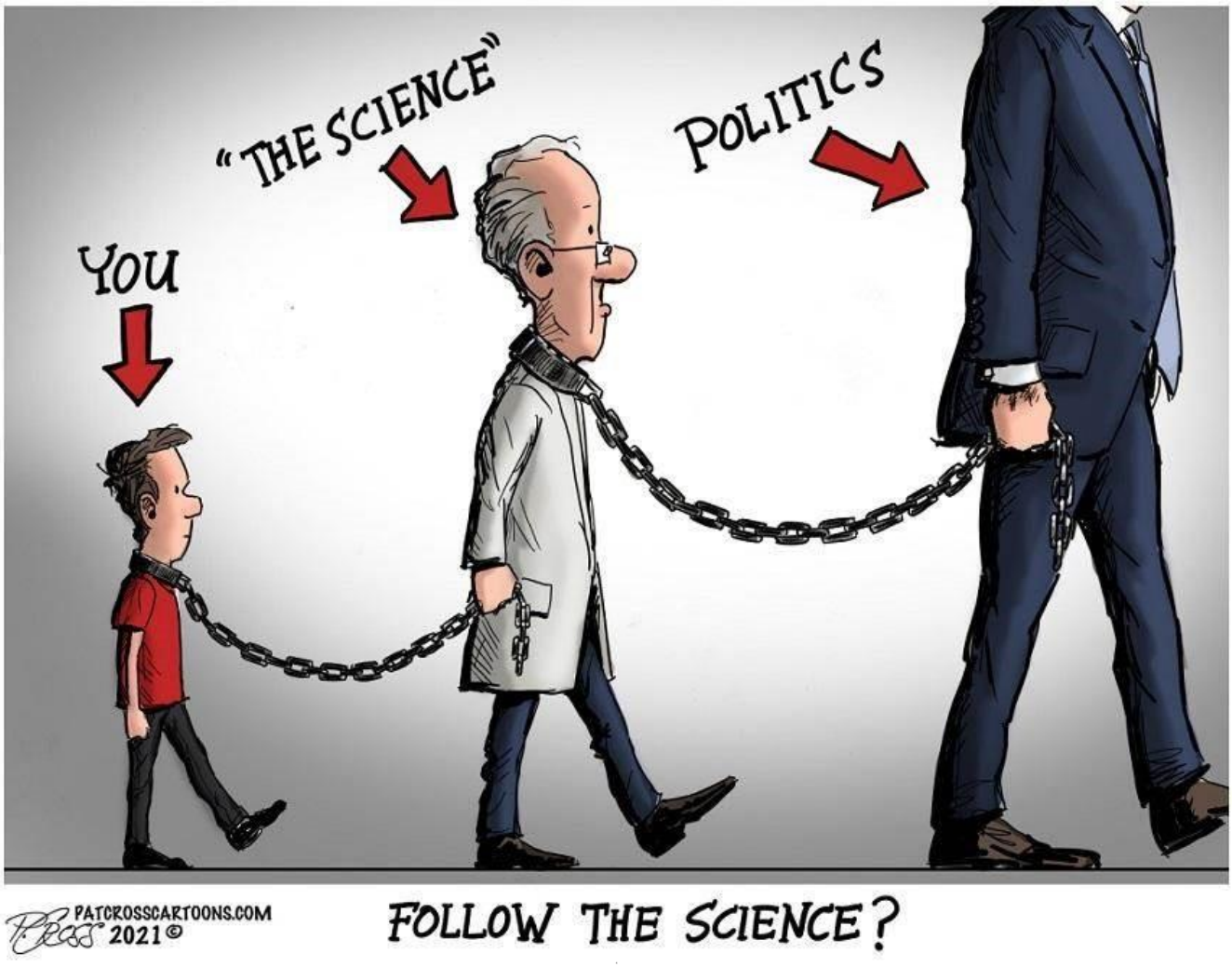
Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

[Fluid dynamics and epidemiology: Seasonality and transmission dynamics]
Talib Dbouk and Dimitris Drikakis
Physics of Fluids
February 2, 2021

[How anger over Covid closures can fuel the school choice movement]
Robert Pondiscio
Fordham Institute
February 4, 2021

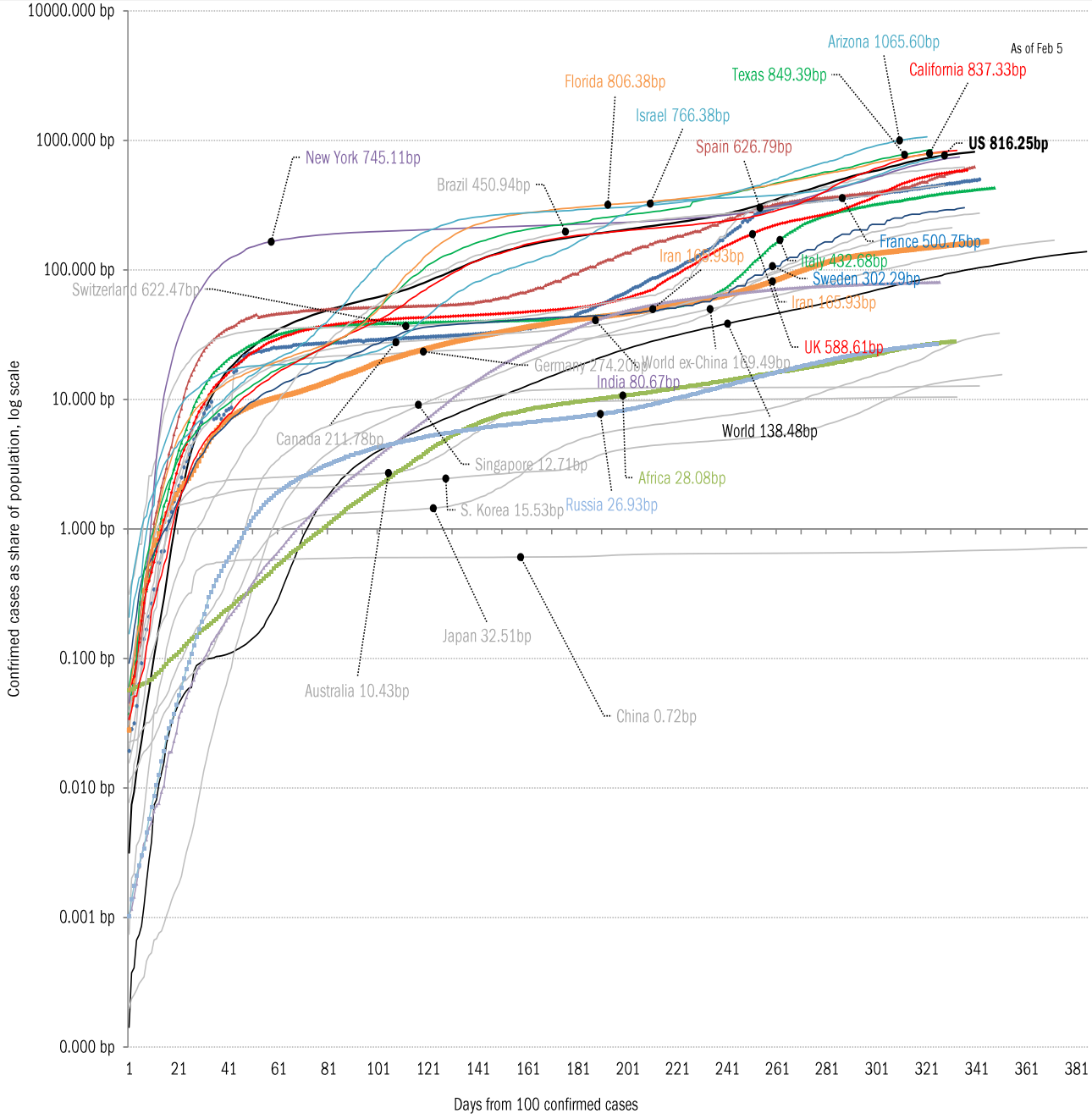
Meme of day



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

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

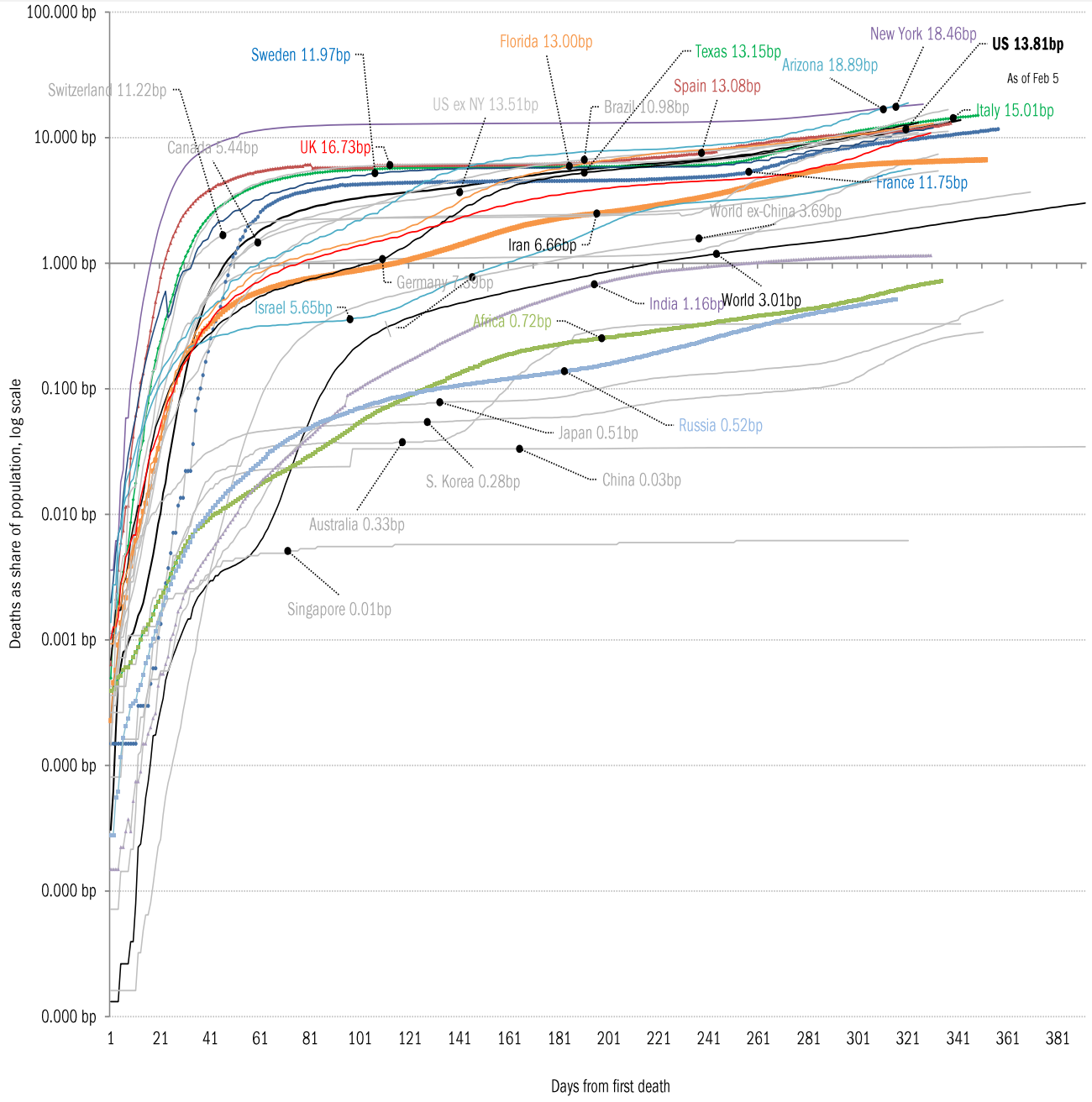
Share of infected population from first day with 100 confirmed cases, log scale



Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

The coronavirus mortality accelerometer … tracking the world's fatality curves

Share of deceased population from day of first fatality

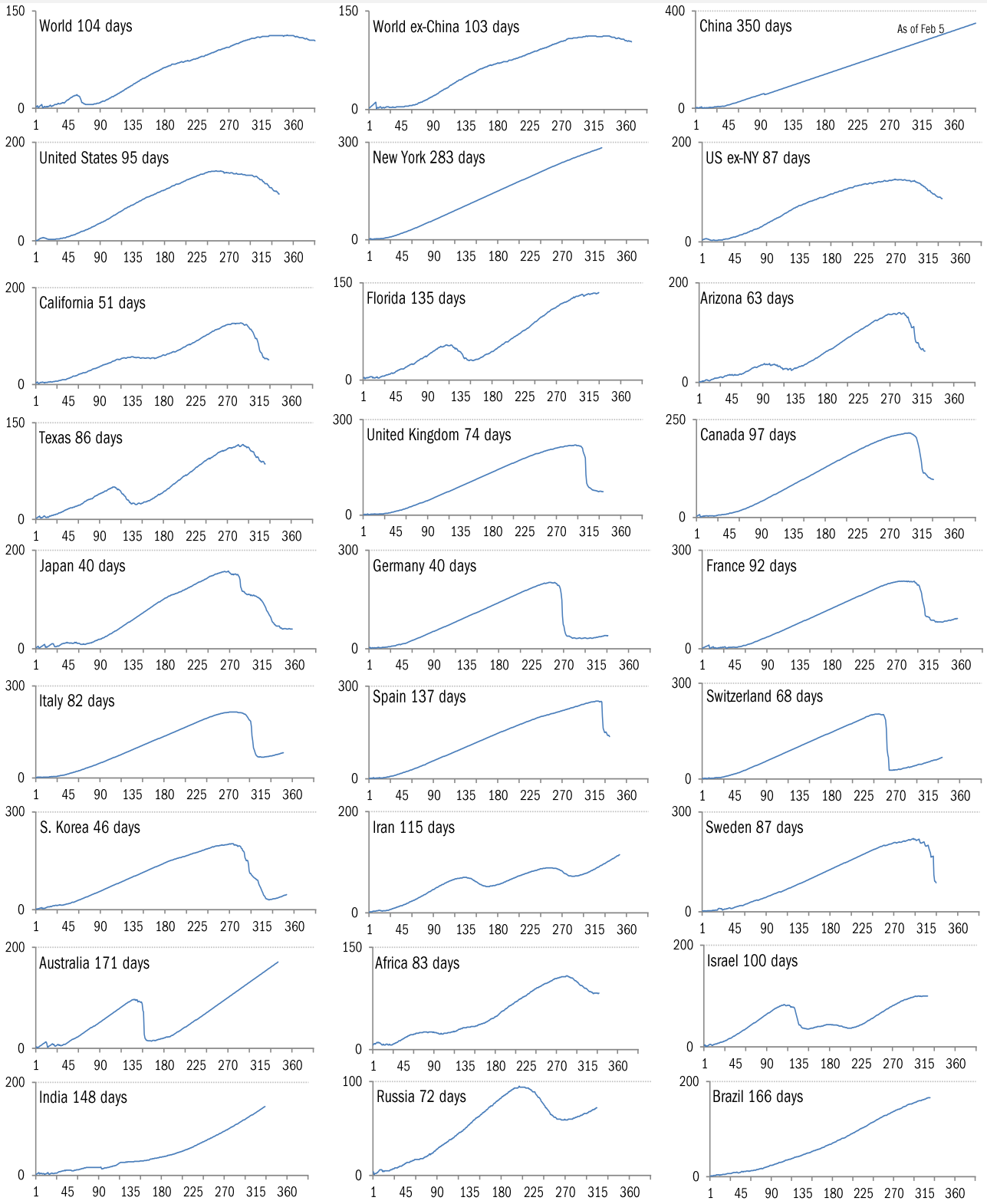


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

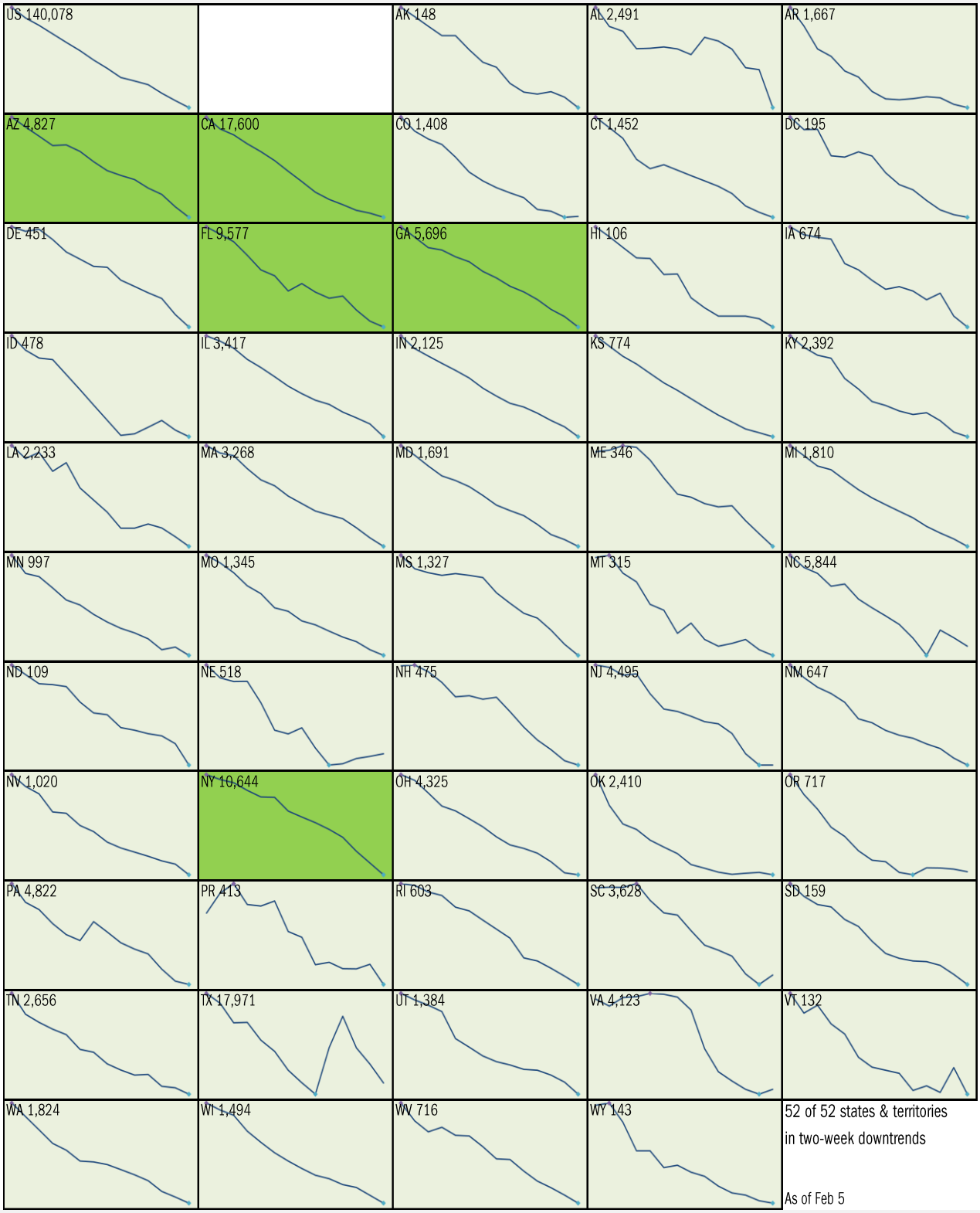


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

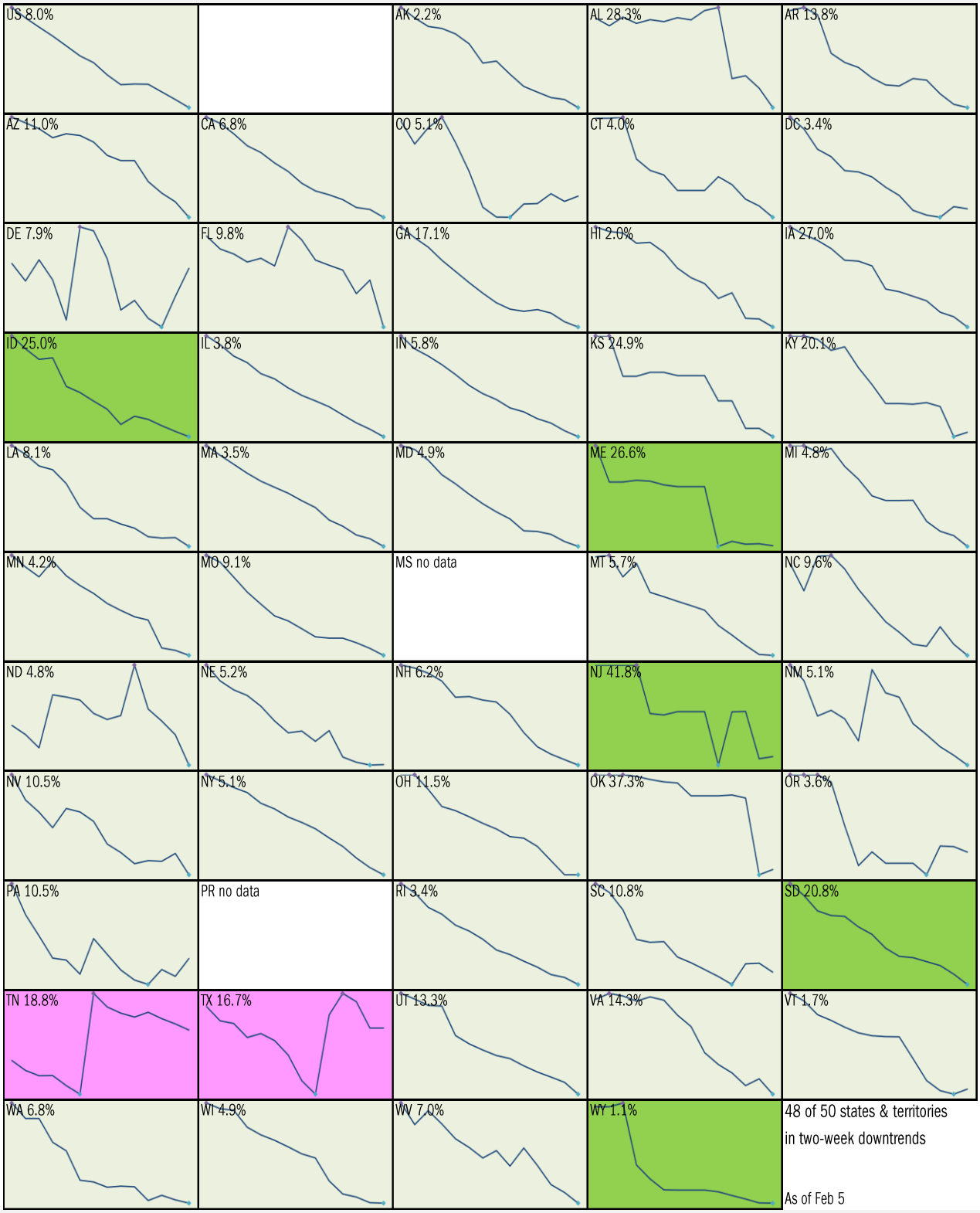


Source: Covid Tracking Project, TrendMacro calculations

Alt requirement to Open Up America Again: 14-day "downward trajectory" in pos tests

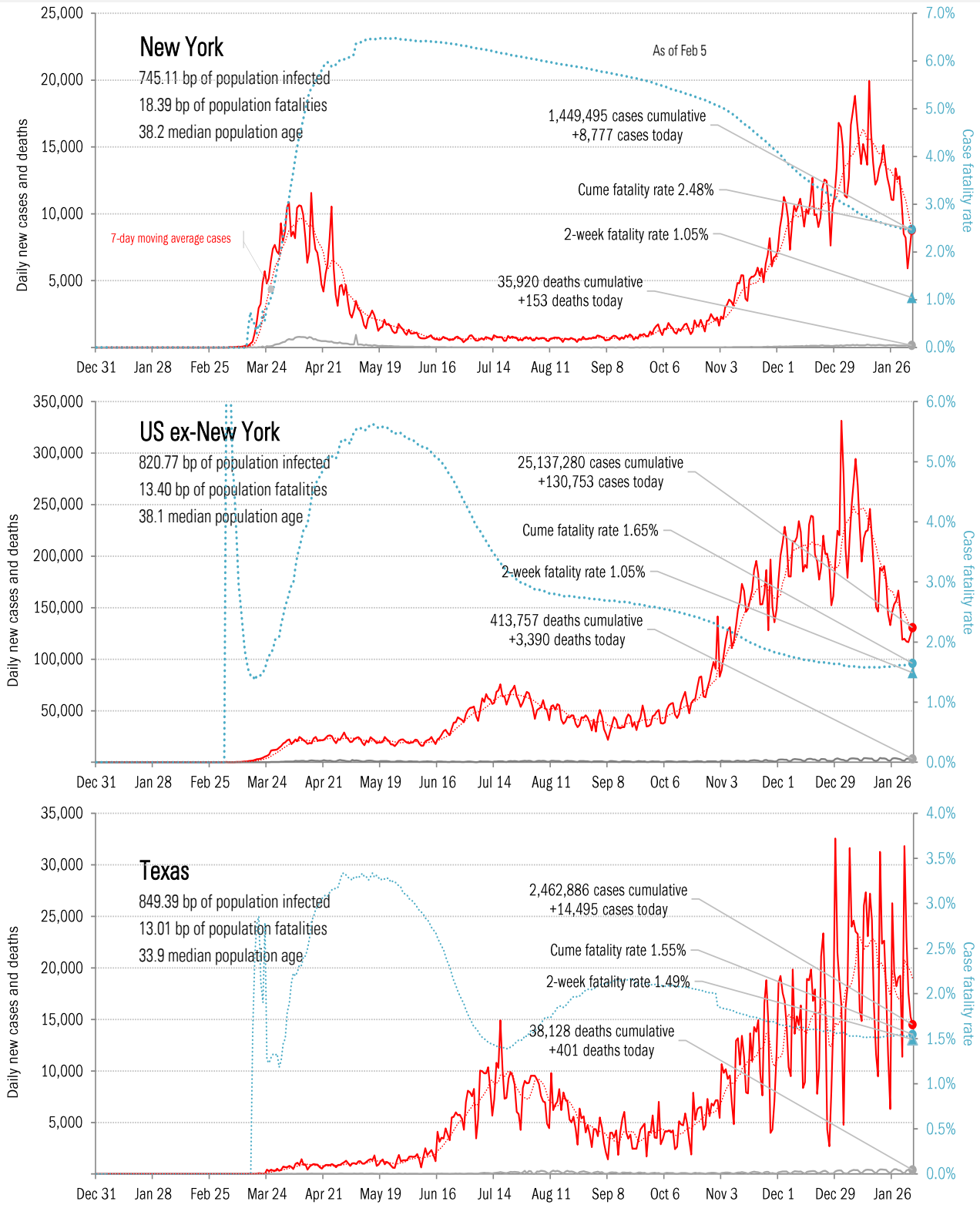
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst



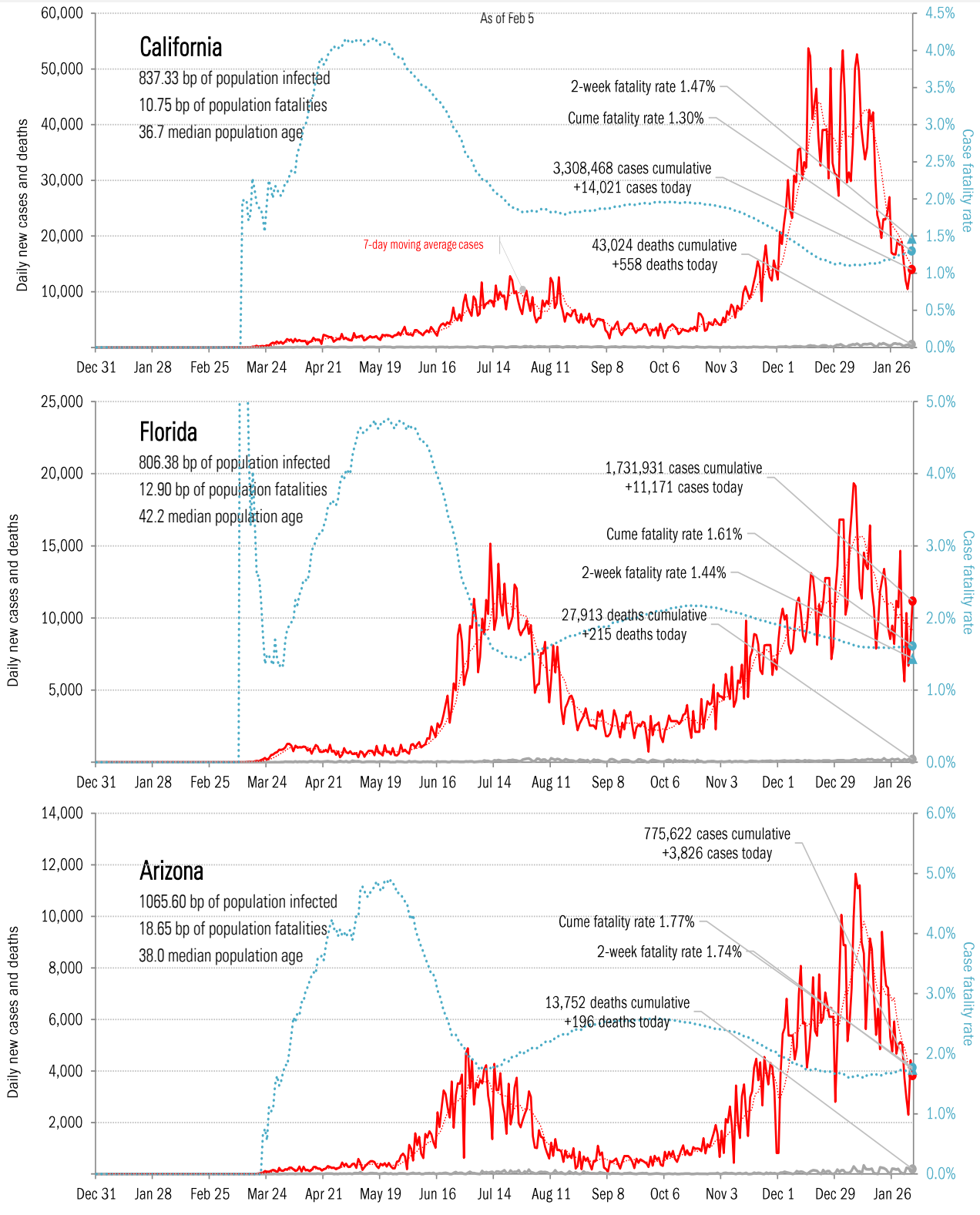
Source: Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



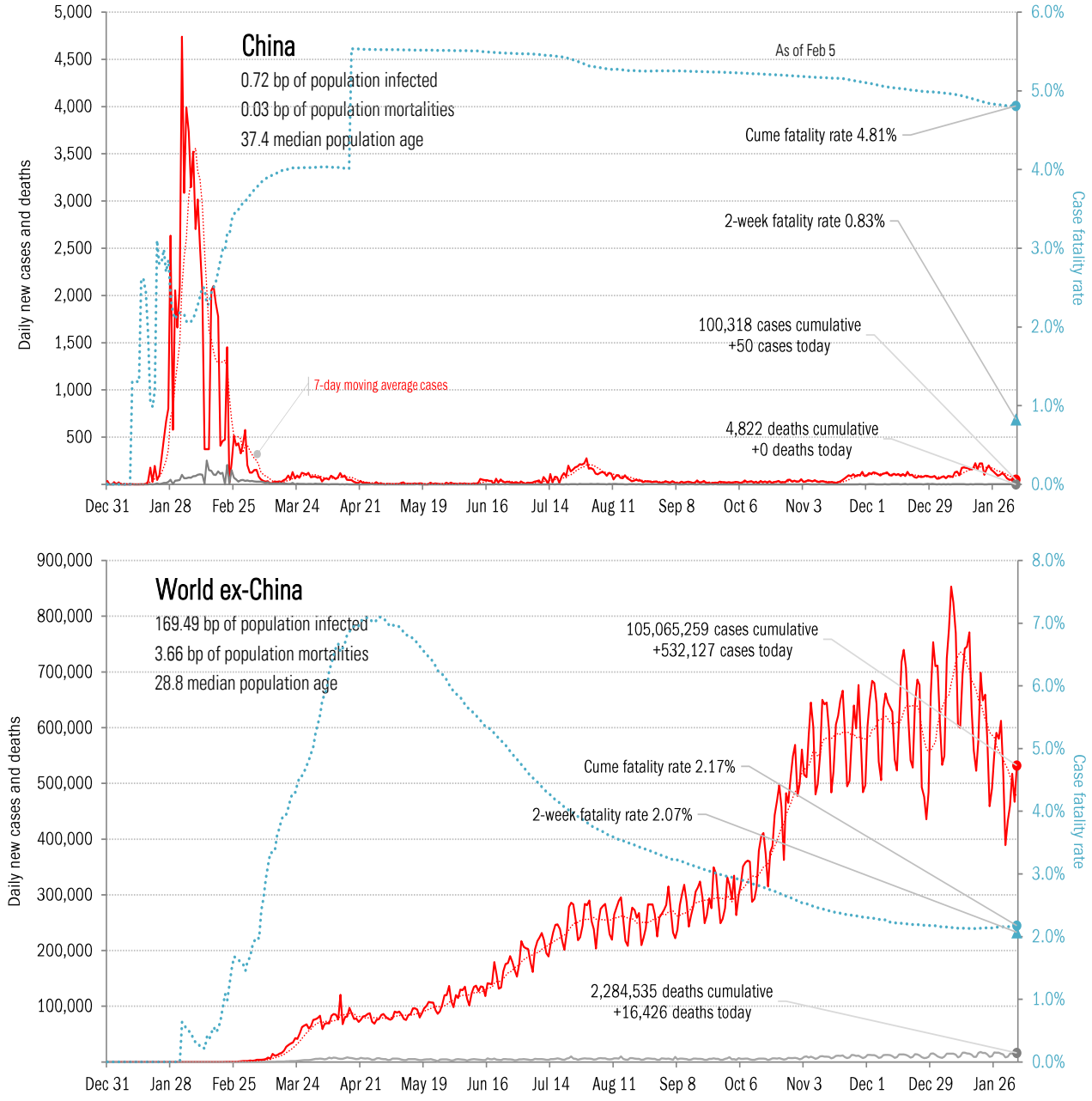
Source: Covid Tracking Project., TrendMacro calculations

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



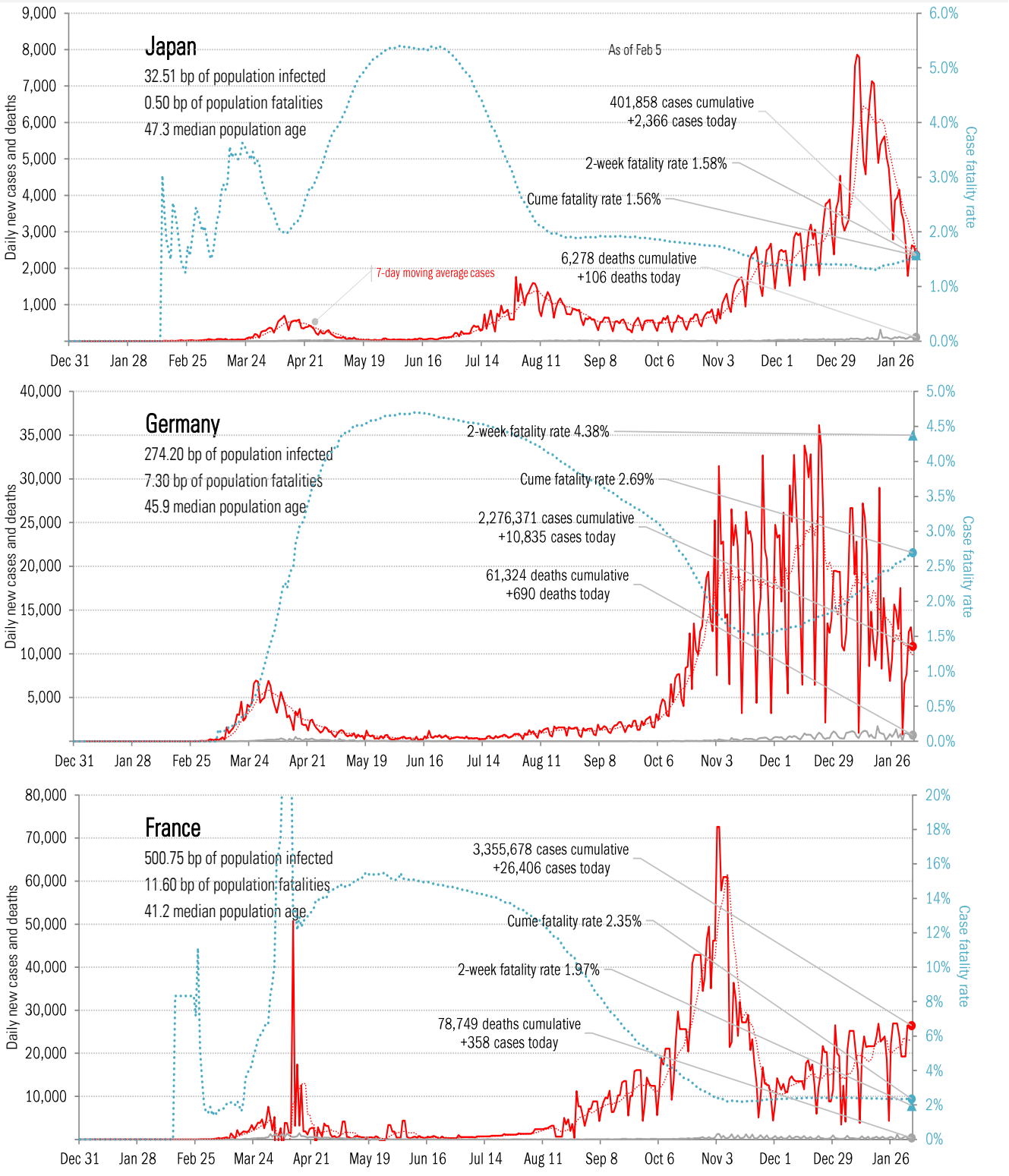
Source: Covid Tracking Project., TrendMacro calculations

Patient zero… and then everyone else



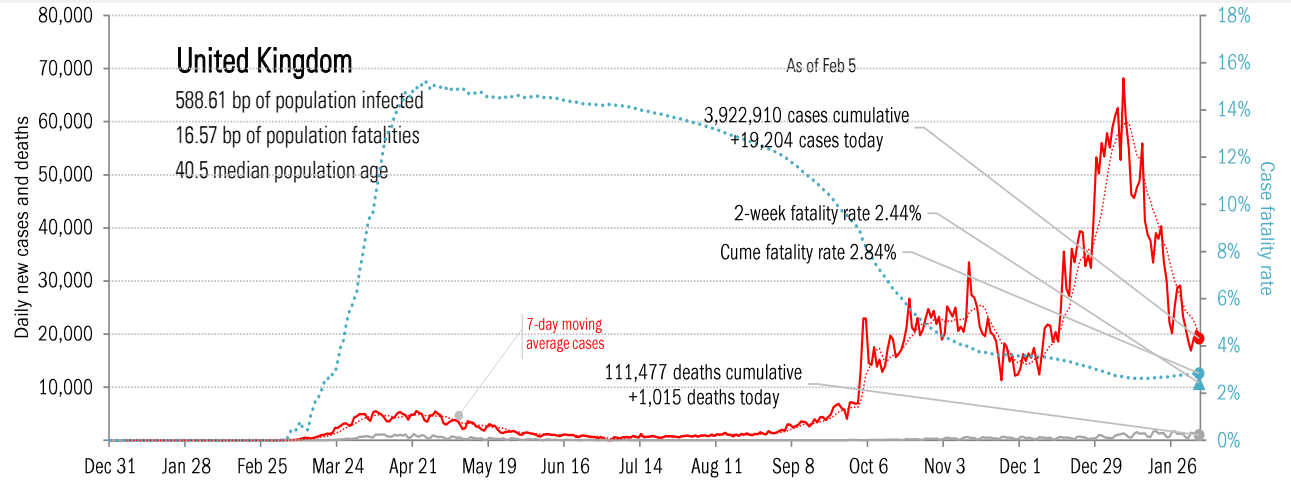
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

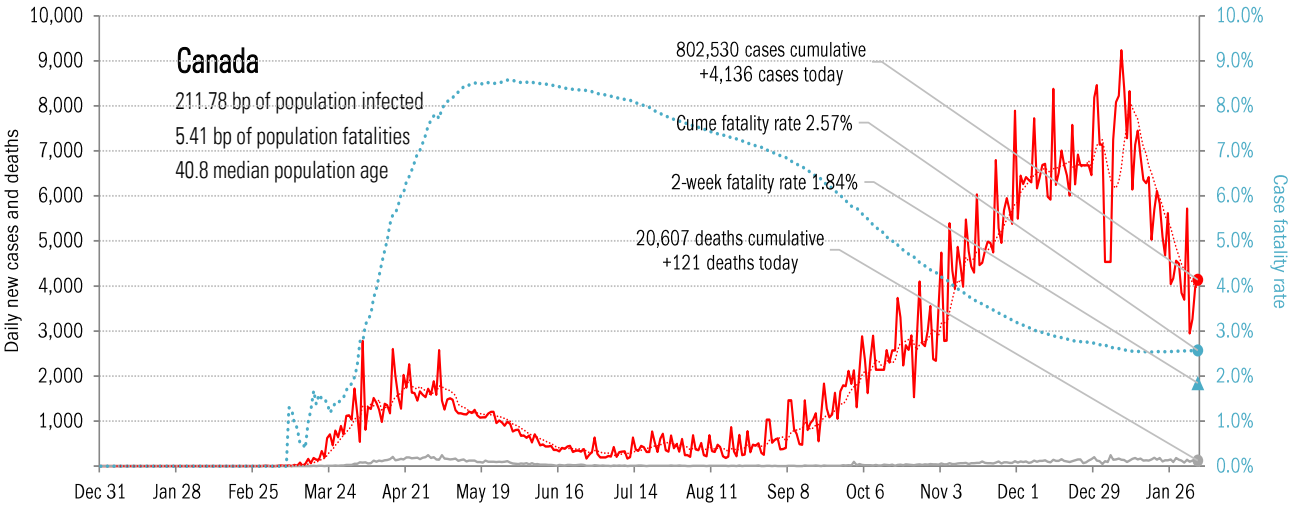
Impact in the largest economies

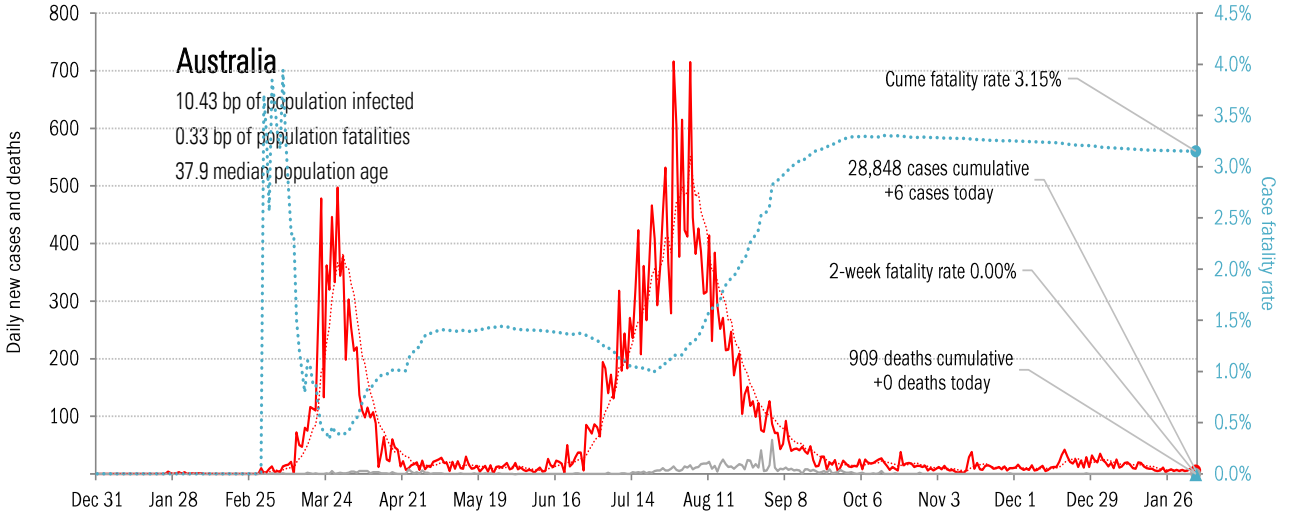


Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

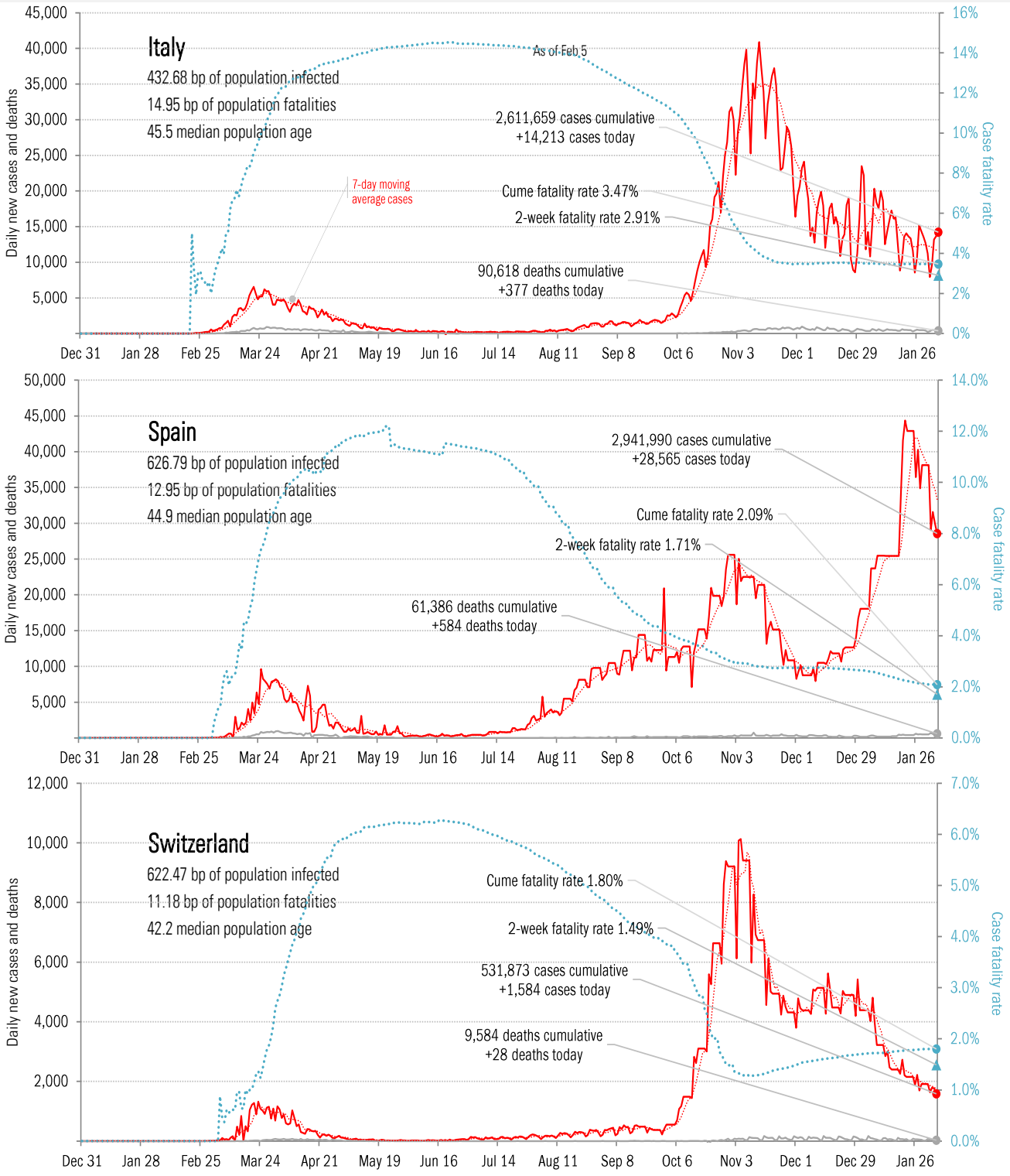






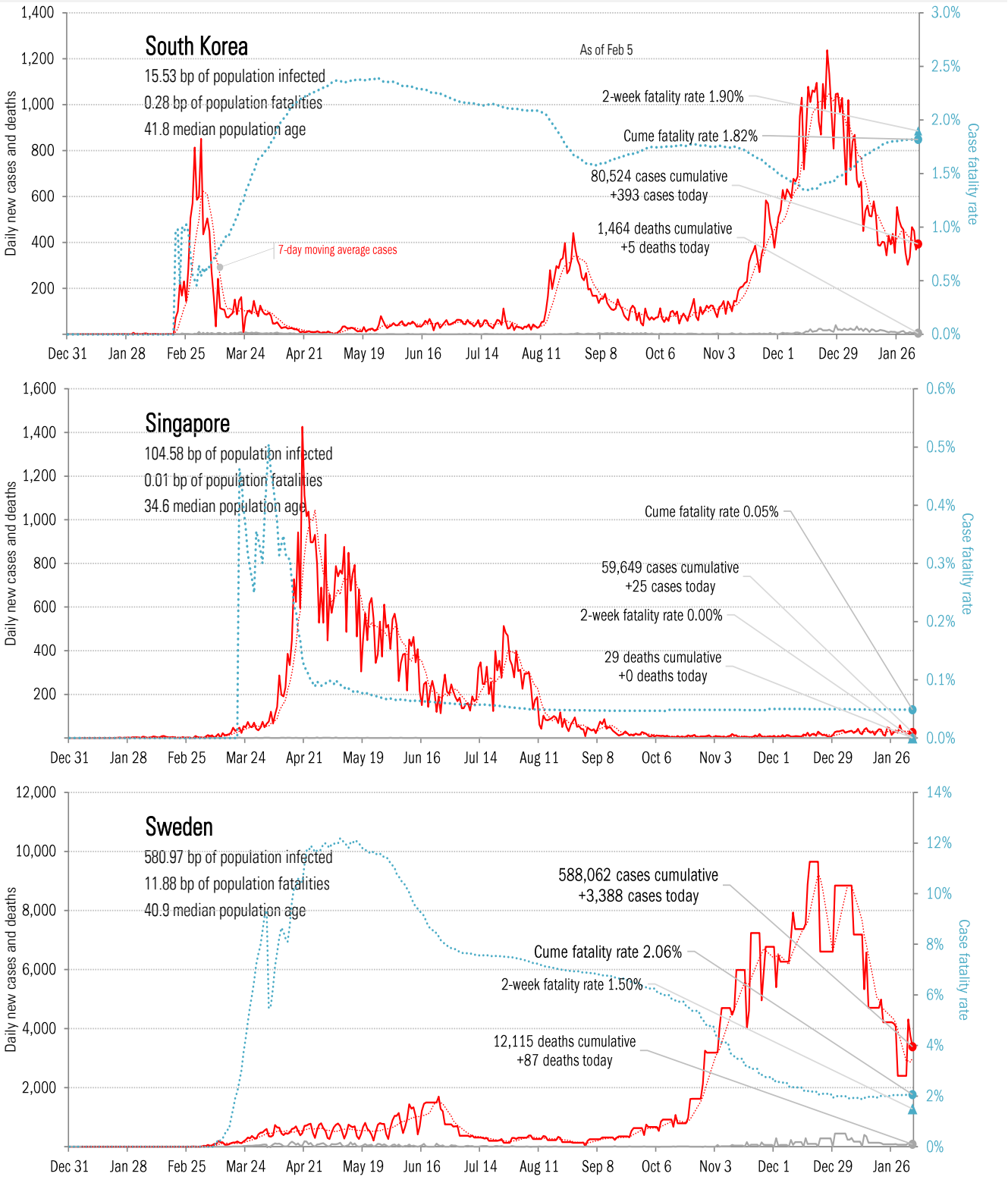
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



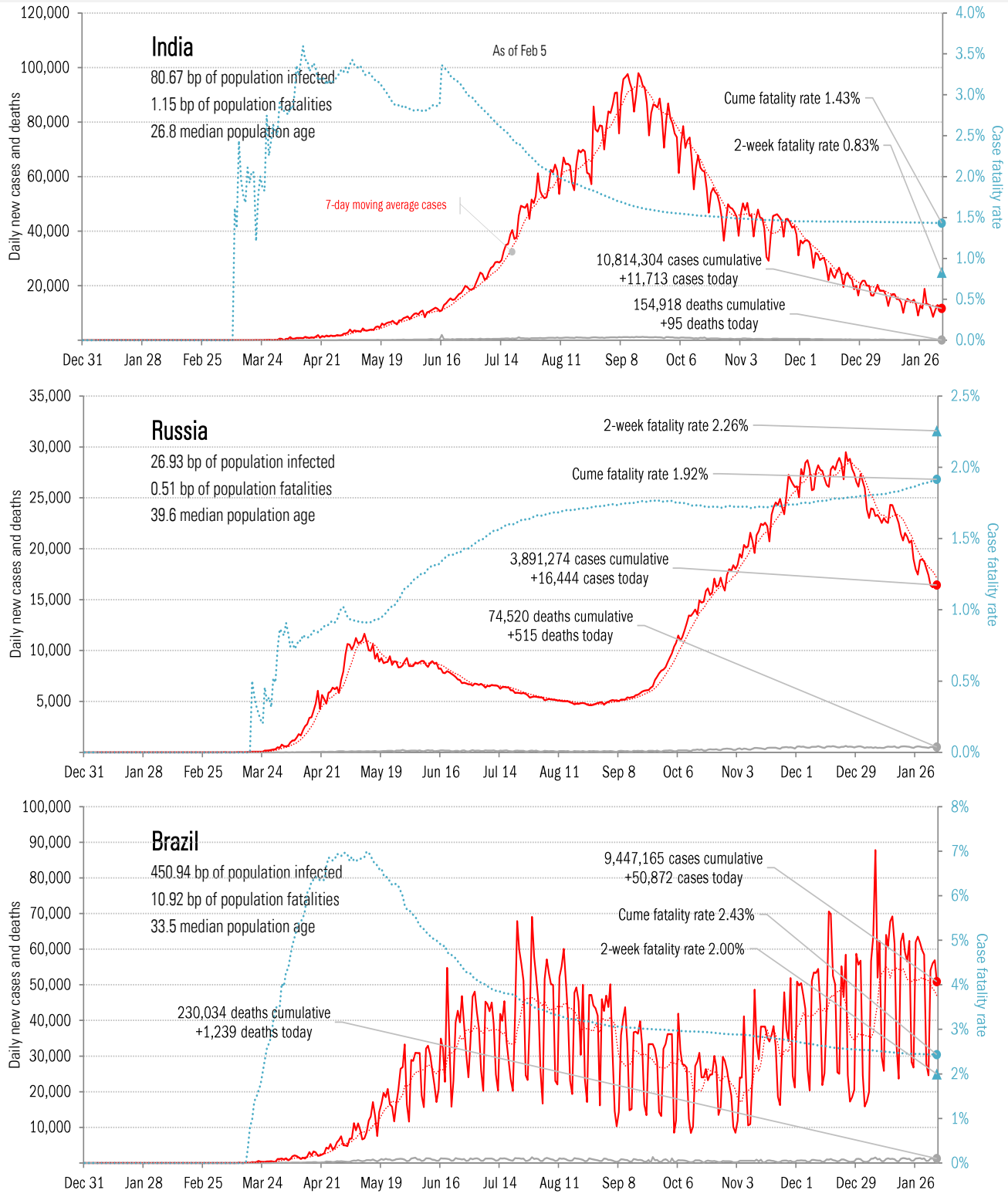
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



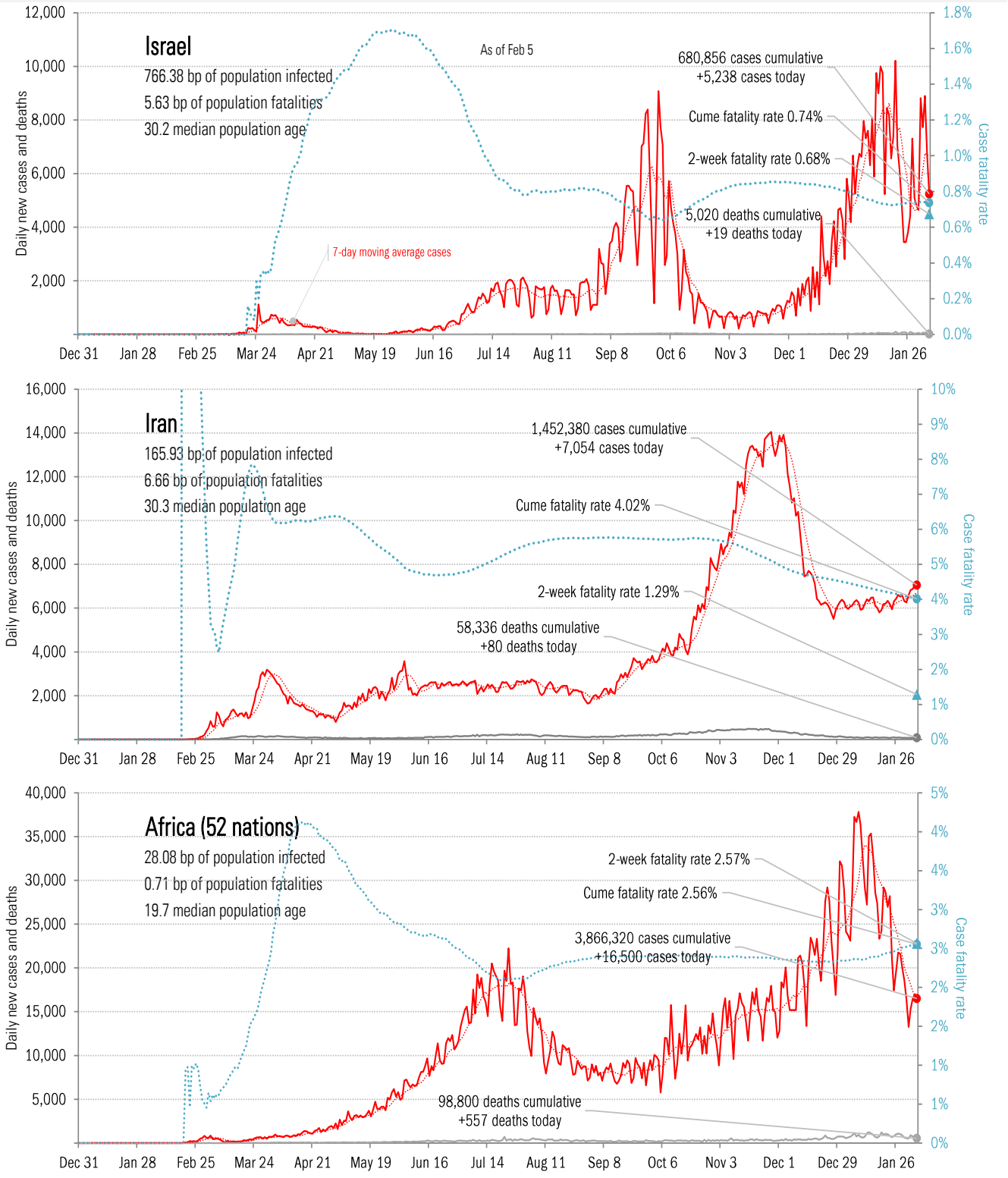
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations