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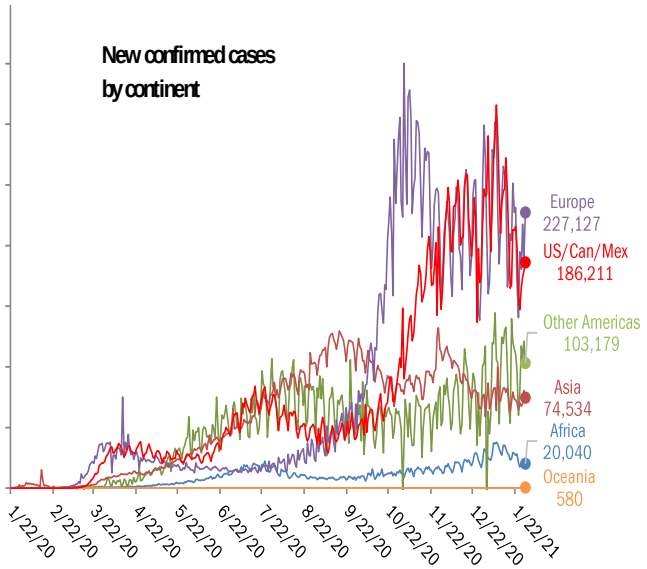
Data Insights: Covid-2019 Monitor

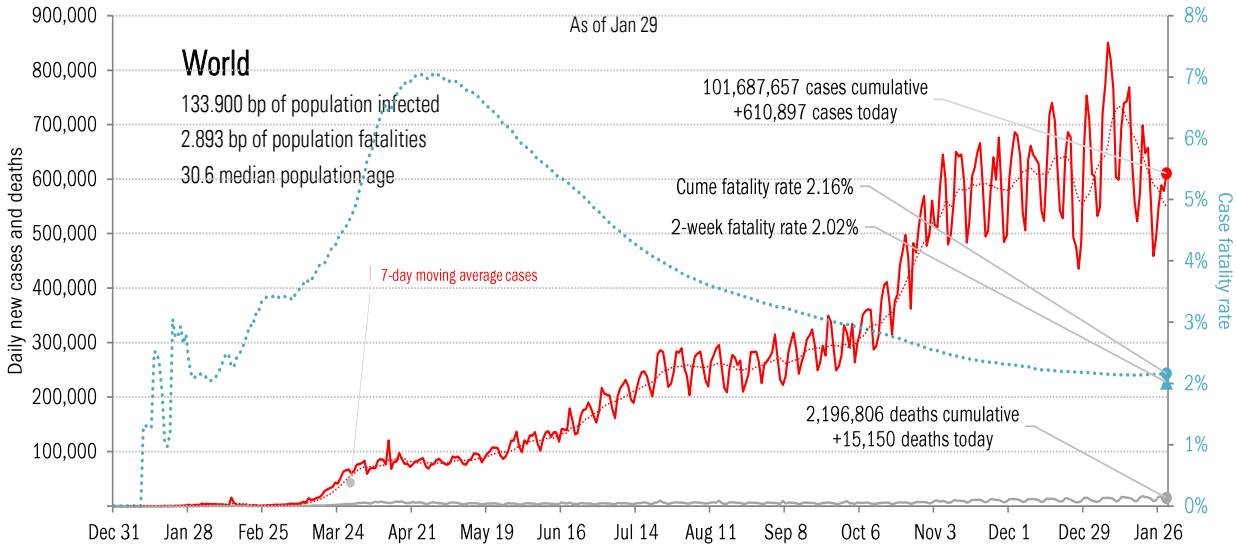
Saturday, January 30, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+165,339	United States	+3,503
Brazil	+59,826	Mexico	+1,434
France	+46,495	United Kingdom	+1,248
Spain	+38,118	France	+1,164
United Kingdom	+29,145	Brazil	+1,119
Russia	+18,966	South Africa	+528
Mexico	+16,374	Russia	+521
Indonesia	+13,802	Spain	+513
Italy	+13,563	Italy	+477
Portugal	+13,200	Germany	+403
	+414,828		+10,910
World	+610,897	World	+15,150
Top ten	68%	Top ten	72%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

For more information contact us:
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The US scorecard

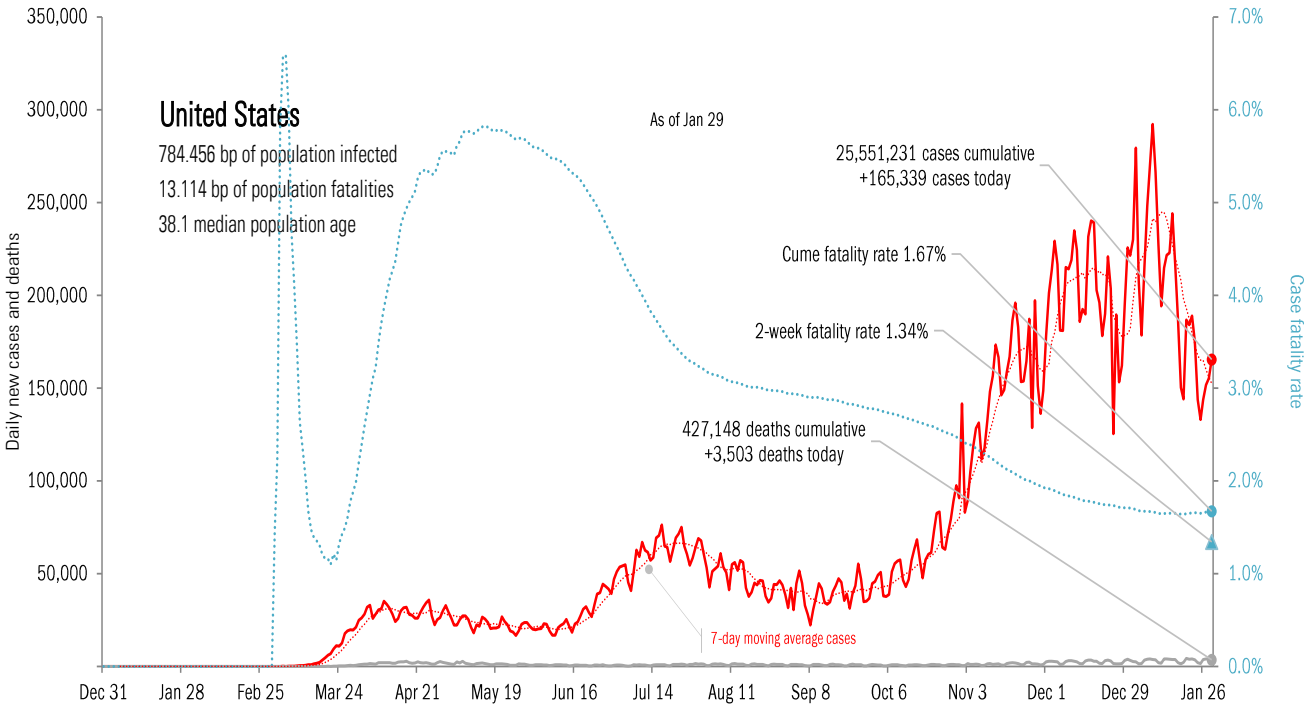
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	+19,337	CA	+617	AK	+6	CA	3,205,947	CA	39,578	NY	89,995	RI	102%	AL	93%
TX	+19,076	TX	+349	ME	+5	TX	2,330,028	TX	35,988	FL	72,944	GA	86%	GA	92%
NY	+12,579	FL	+229	ND	+2	FL	1,667,442	NY	34,893	NJ	60,326	SC	84%	CA	89%
FL	+10,745	AL	+226	AS	+0	NY	1,387,059	FL	26,685	AZ	51,571	MA	83%	TX	88%
PA	+9,643	AZ	+203	GU	+0	IL	1,120,528	PA	21,462	GA	49,869	FL	82%	OK	87%
NC	+6,959	GA	+159	HI	+0	OH	888,590	NJ	21,383	OH	45,952	CT	81%	FL	86%
NJ	+5,986	PA	+159	ID	+0	PA	834,048	IL	21,146	AL	41,483	MD	81%	NC	84%
AZ	+5,028	NY	+151	MO	+0	AZ	748,260	MI	15,410	IN	40,150	DC	81%	DE	84%
TN	+4,908	NC	+111	MP	+0	NC	746,459	MA	14,444	MD	31,759	CA	80%	NV	83%
OH	+4,874	MA	+96	VI	+0	GA	741,991	GA	13,986	MN	24,200	PA	80%	SC	83%
	+99,135		+2,300		+13		13,670,352		244,975		508,249				
All states	+165,339		+3,503		-3300	All states	25,551,231		427,148		801,634	All states	75%		78%
Top ten	60%		66%		0%	Top ten	54%		57%		63%	Median	73%		75%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
MA	-1,513	SC	-191	IN	-203	TX	+18,297
VA	-883	TX	-122	NC	-123	PA	+7,810
NY	-819	CA	-120	KS	-99	OH	+6,117
AL	-800	MI	-80	FL	-76	TN	+4,768
GA	-593	TN	-57	MS	-56	UT	+3,824

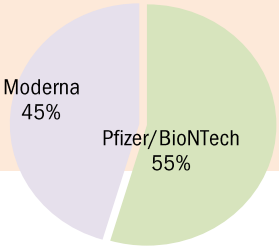


Source: Covid Tracking Project, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US

US overall	Over last day
49.22 million doses distributed	+0.83 million/day
27.88 million doses administered	+1.69 million/day
22.86 million persons with one or more shot	+1.16 million/day
4.78 million persons with two or more shots	+0.52 million/day

56.7% of distributed doses administered
8.5% of US population vaccinated
7.0% of US population one shot
1.5% of US population two shots



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

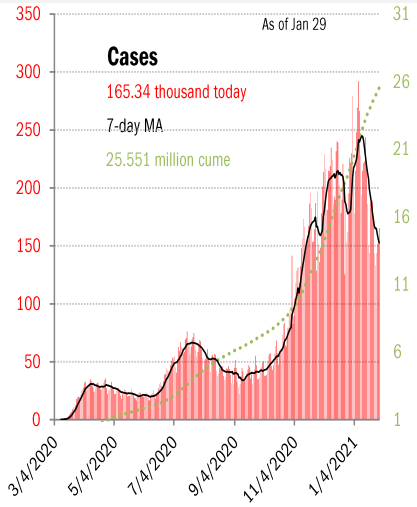
AK										ME
26.3%										15.7%
12.1%										7.0%
3.0%										2.1%
					WI				VT	NH
					13.6%				16.0%	15.0%
					5.8%				7.6%	6.8%
					1.1%				2.3%	1.8%
WA	ID	MT	ND	MN	IL	MI		NY	MA	
13.2%	12.4%	13.3%	14.0%	14.8%	13.1%	13.6%		14.5%	15.3%	
6.5%	5.0%	6.7%	8.4%	6.0%	5.4%	7.0%		7.0%	6.1%	
1.3%	1.1%	2.0%	2.7%	1.7%	1.4%	1.6%		1.4%	1.4%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
14.6%	11.0%	14.8%	14.0%	12.6%	13.8%	13.3%	15.4%	13.9%	16.2%	14.9%
7.1%	5.8%	7.2%	8.0%	5.5%	7.1%	6.1%	6.1%	6.9%	9.2%	6.0%
1.4%	0.9%	1.3%	3.0%	1.5%	1.6%	1.1%	1.5%	1.2%	1.9%	1.9%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
14.3%	12.5%	14.1%	14.9%	13.6%	14.6%	15.5%	13.9%	14.6%	14.8%	
6.1%	6.8%	7.1%	6.2%	5.1%	7.0%	10.1%	7.0%	6.2%	7.5%	
1.2%	1.3%	1.9%	1.9%	1.5%	1.2%	3.2%	1.2%	1.1%	1.5%	
	AZ	NM	KS	AR	TN	NC	SC	DC		
	13.9%	15.2%	14.2%	15.0%	14.0%	13.4%	10.8%	21.0%		
	6.0%	9.0%	5.4%	7.3%	5.9%	7.0%	6.3%	8.1%		
	1.1%	2.2%	1.1%	1.5%	2.1%	1.2%	1.2%	2.3%		
			OK	LA	MS	AL	GA			
			15.0%	13.3%	14.3%	13.4%	13.6%			
			8.2%	7.3%	6.4%	5.2%	6.5%			
			1.5%	1.3%	0.7%	0.9%	0.9%			
HI			TX					FL		PR
16.0%			12.6%					15.0%		16.6%
6.3%			6.2%					7.2%		5.5%
1.5%			1.4%					1.1%		1.5%

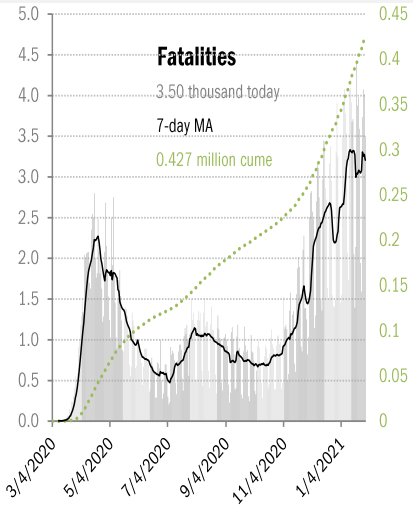
As of Jan 29

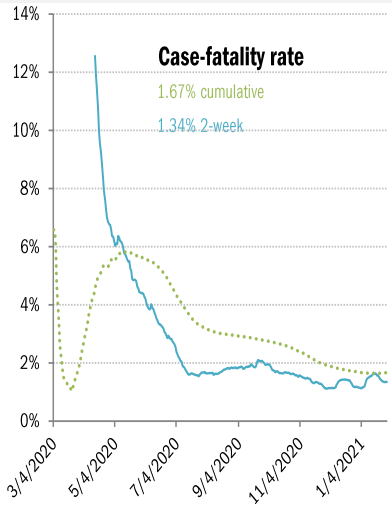
Source: CDC, TrendMacro calculations

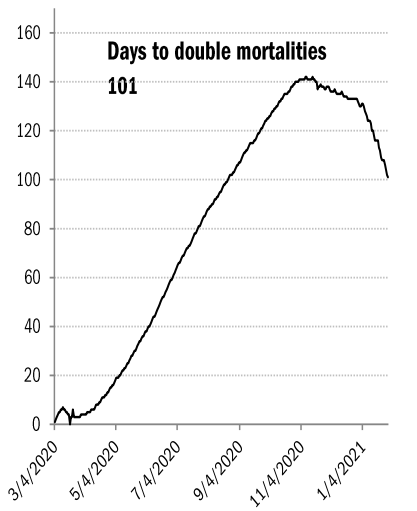
US deep-dive

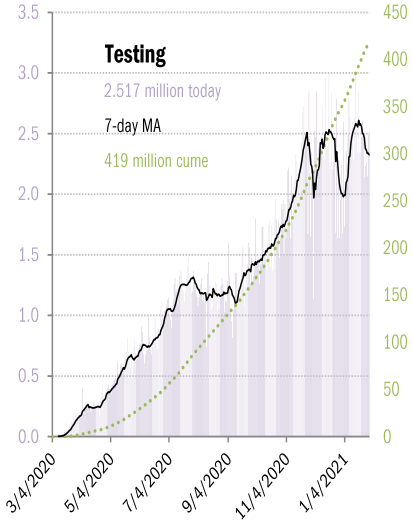
National and state-by-state data do not line up because of different sources

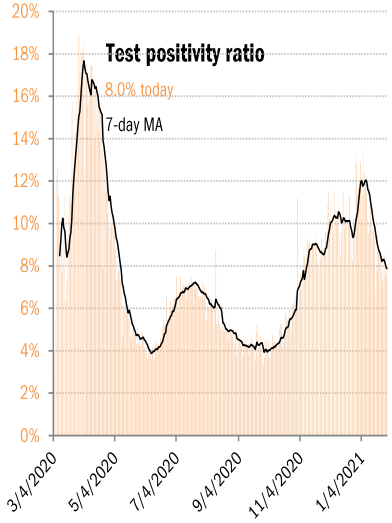


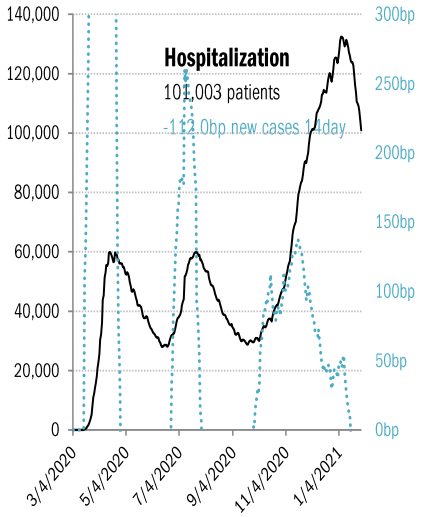


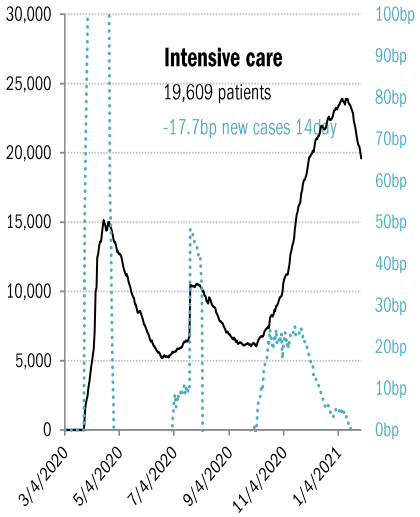


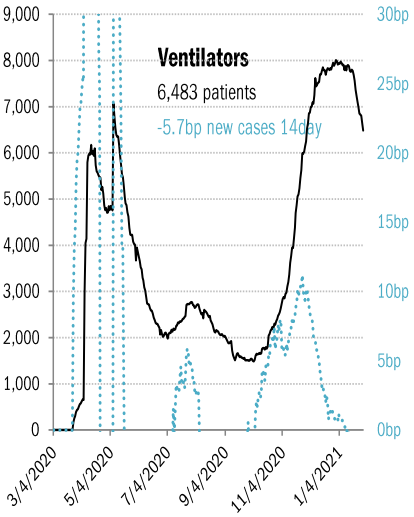






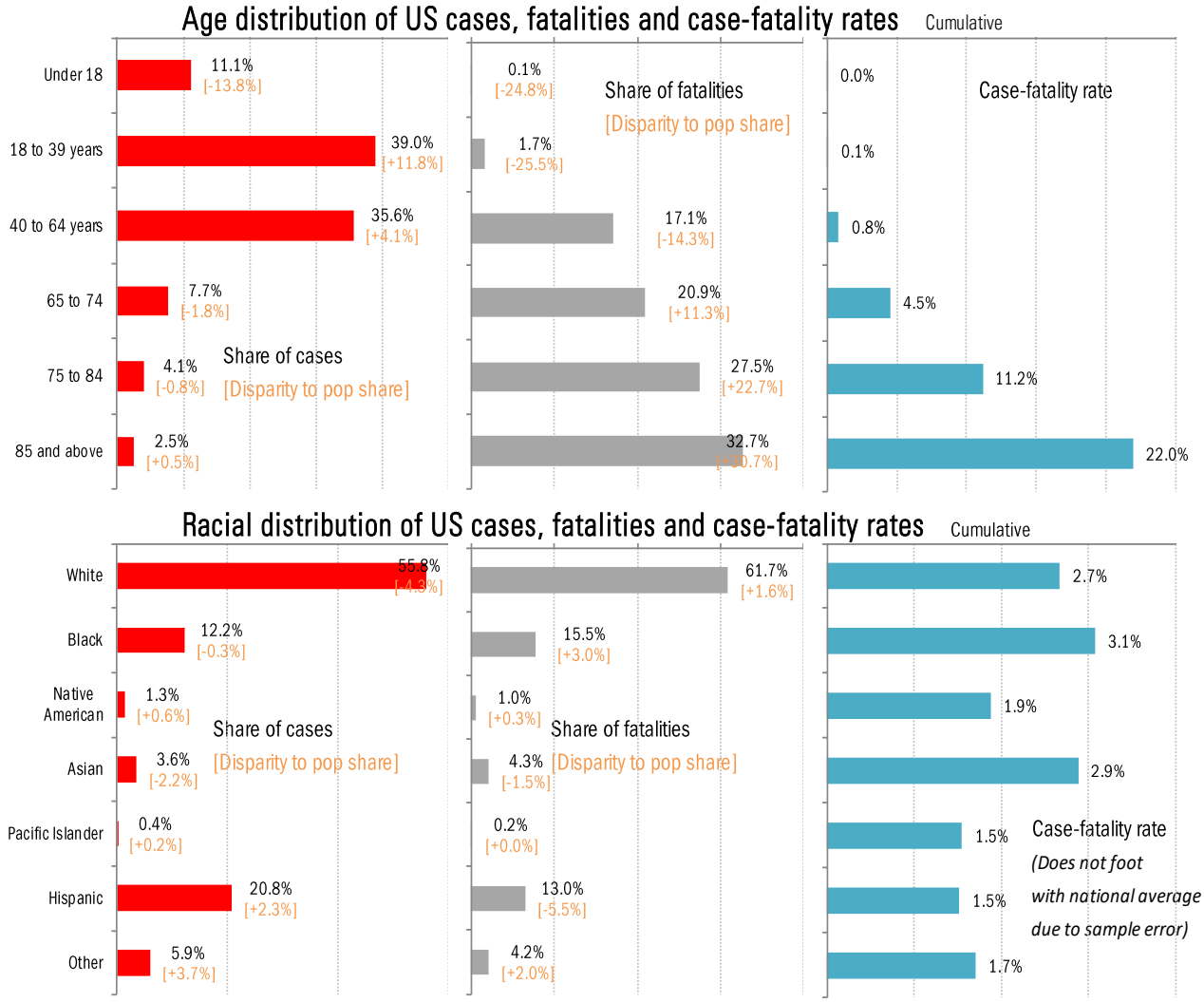




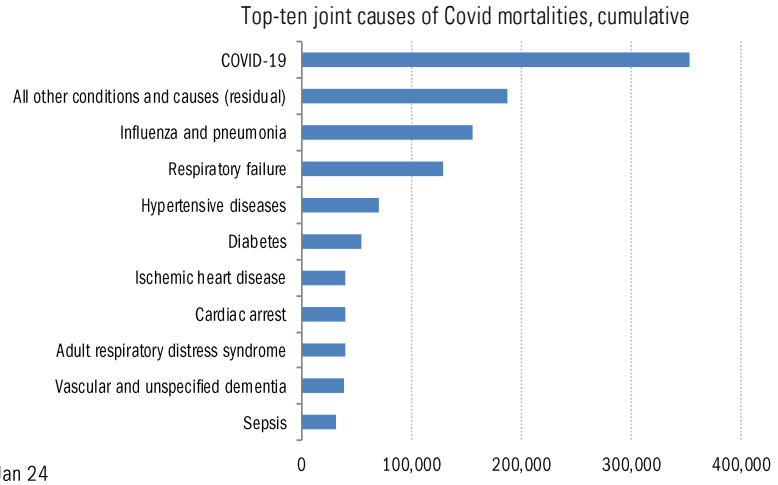


Source: Covid Tracking Project, TrendMacro calculations

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



Comorbidities



As of Jan 24

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

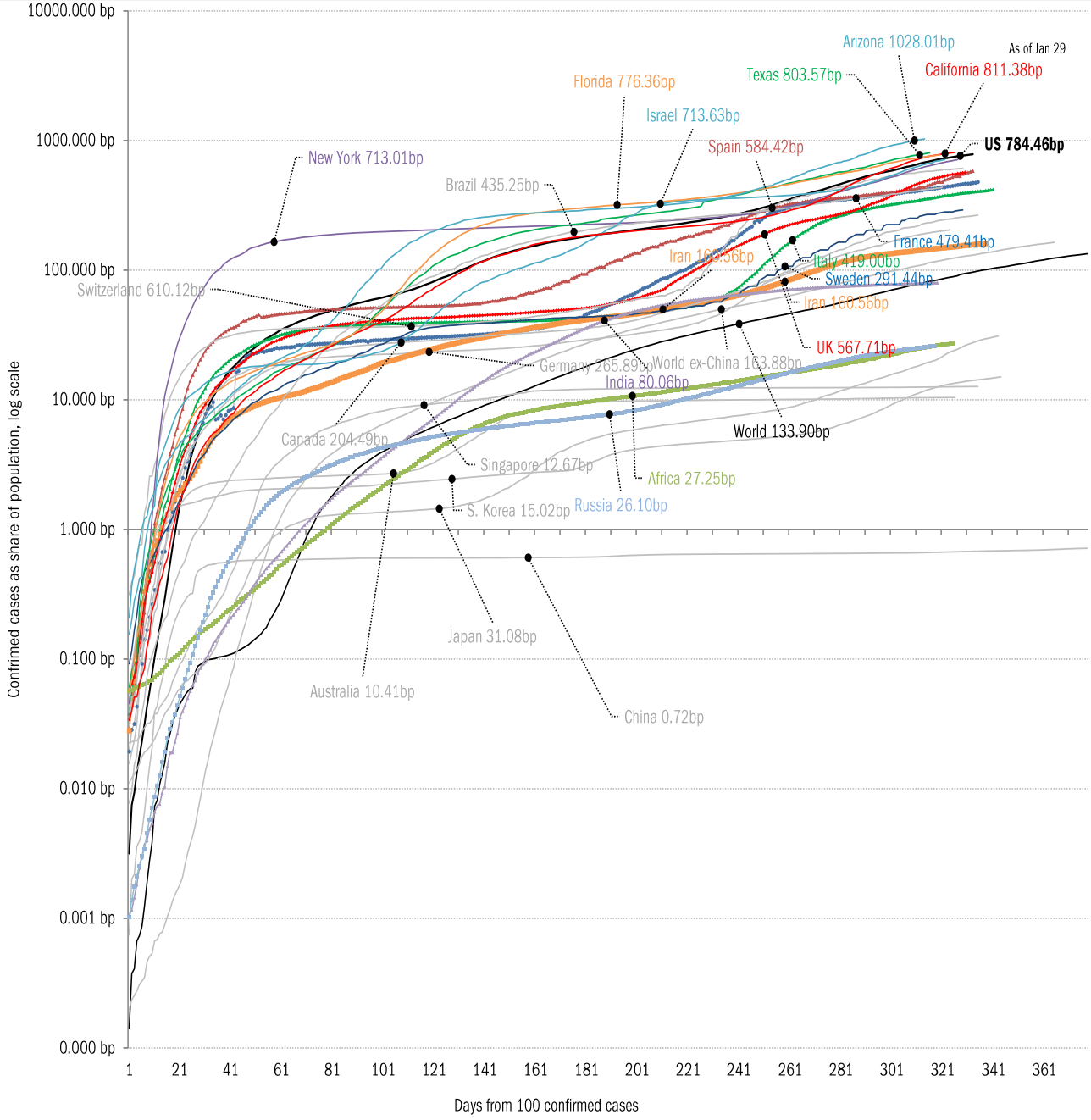
DeSantis is right: Florida doesn't need Biden's vaccine plan. His has been a flaming success
Carl Hiaasen
Miami Herald
January 29, 2021

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

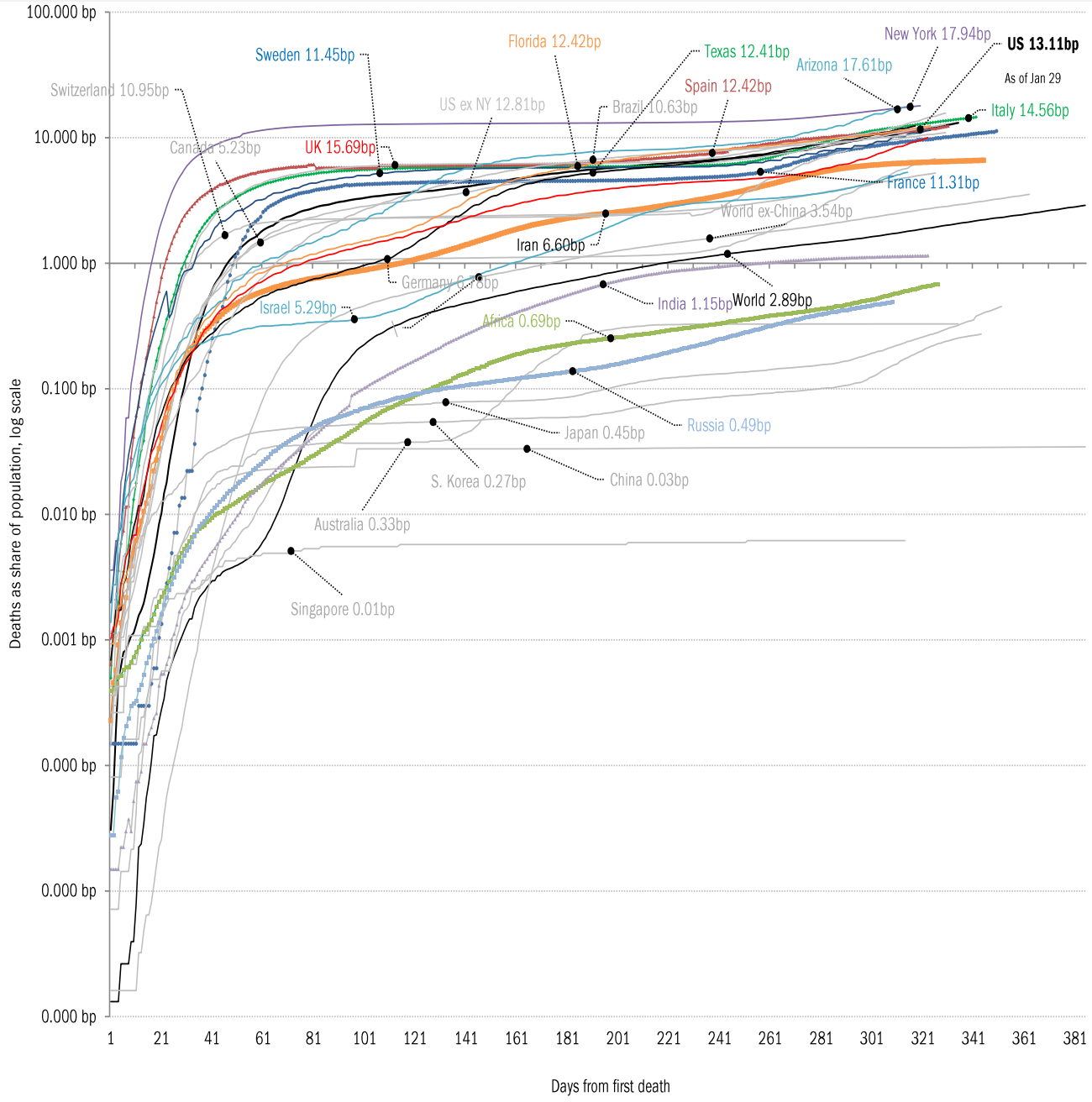
Share of infected population from first day with 100 confirmed cases, log scale



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

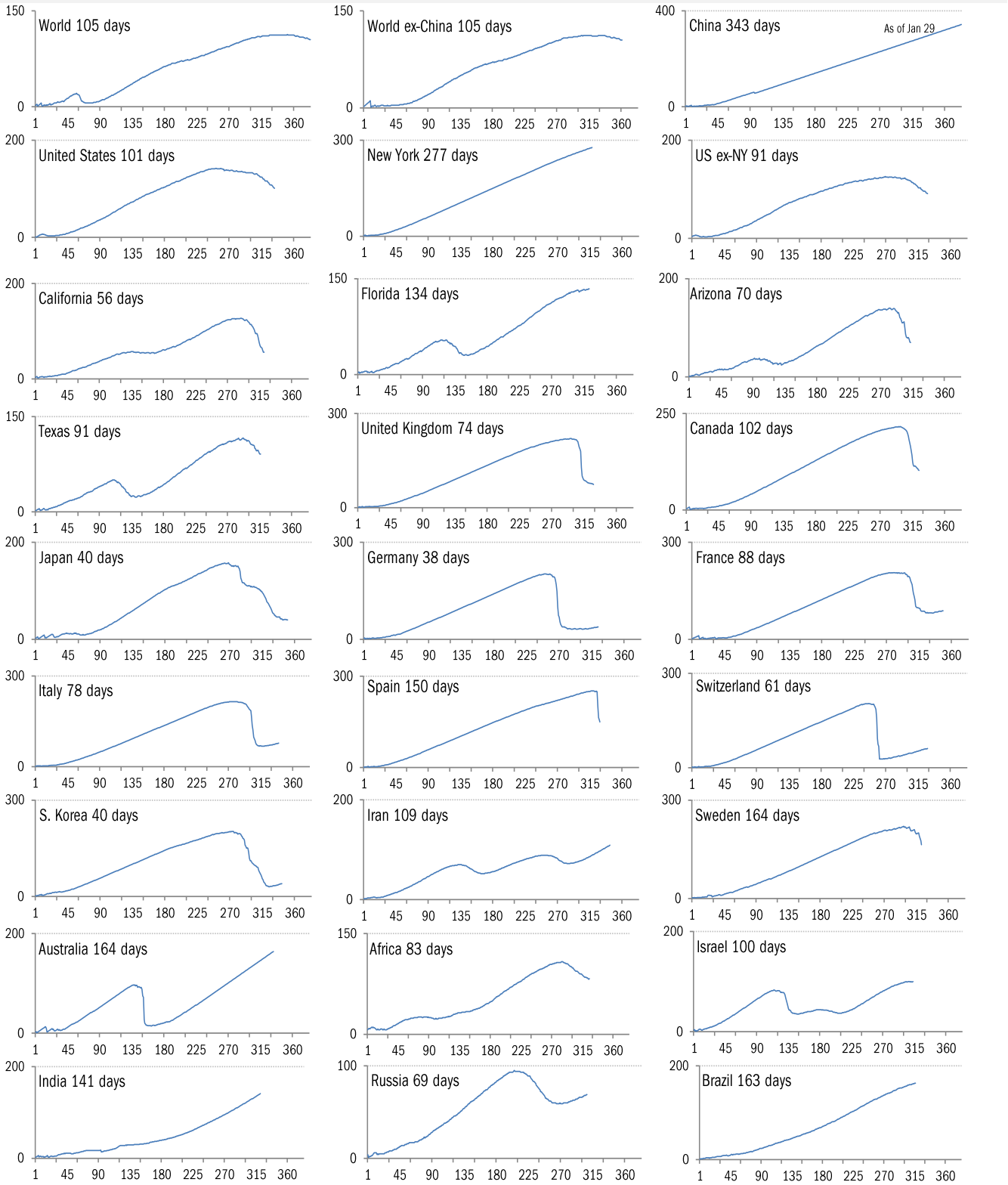


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

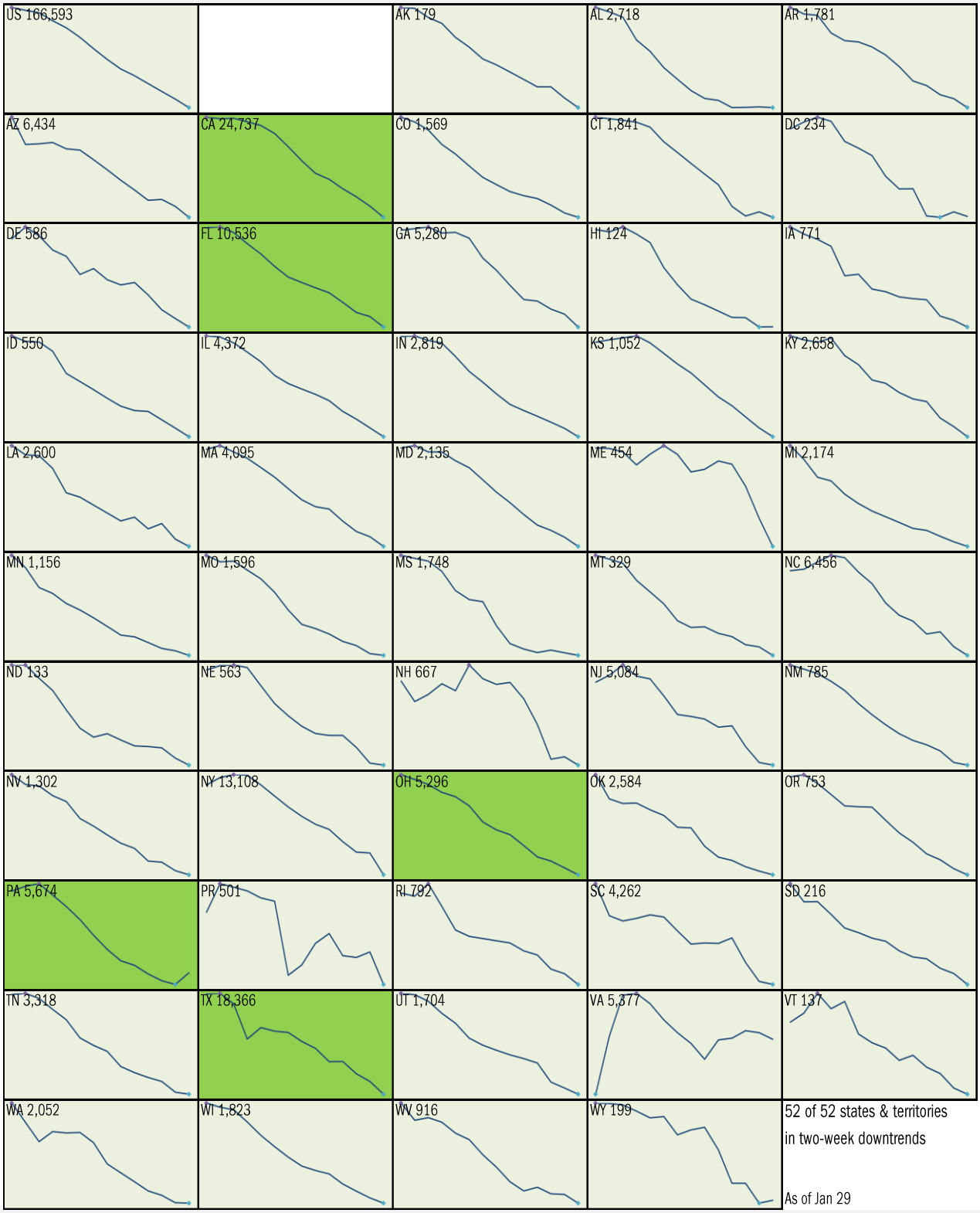


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

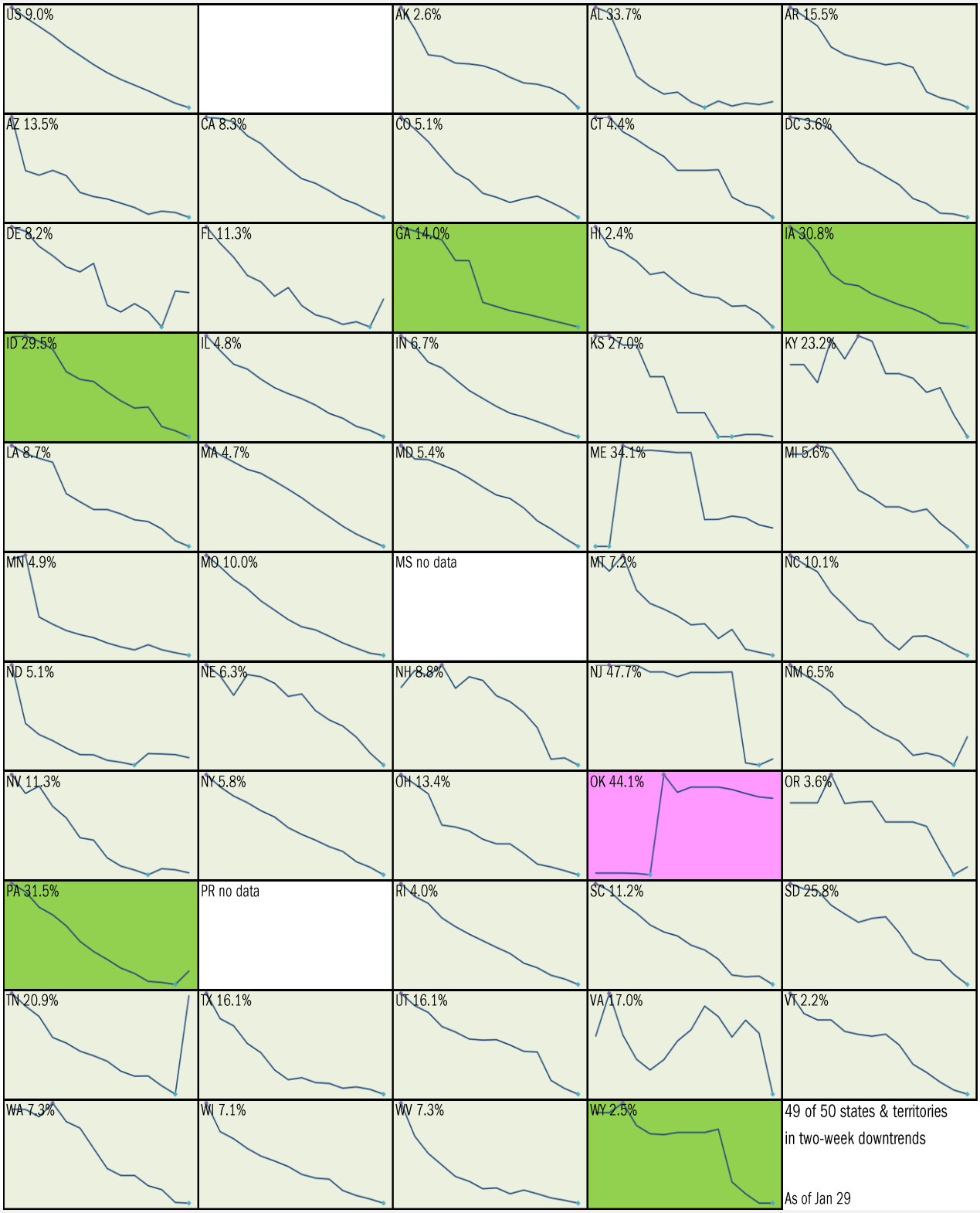


Source: Covid Tracking Project, TrendMacro calculations

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

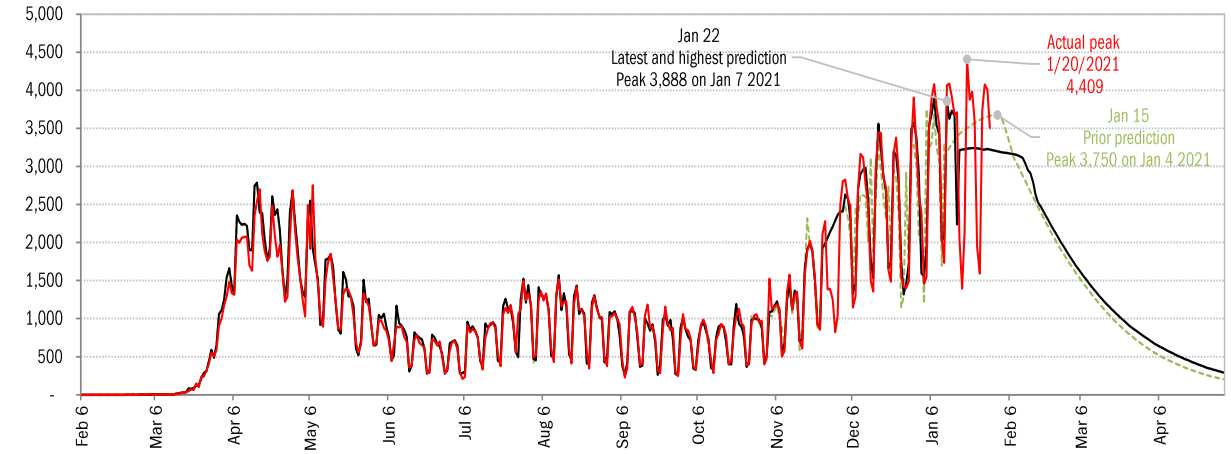


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

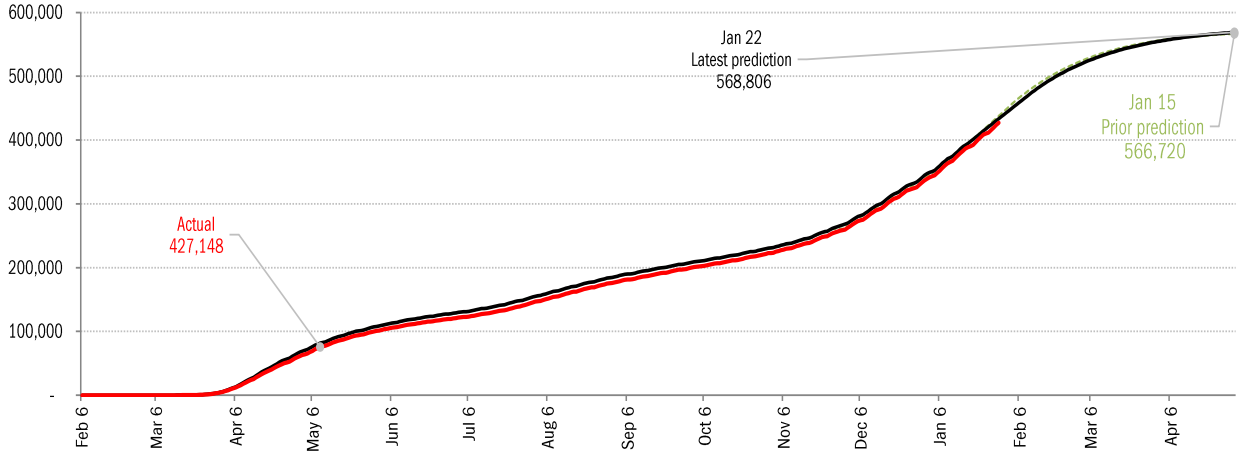
New daily fatalities As of Jan 29

Actual versus first, highest, lowest and latest model mean predictions

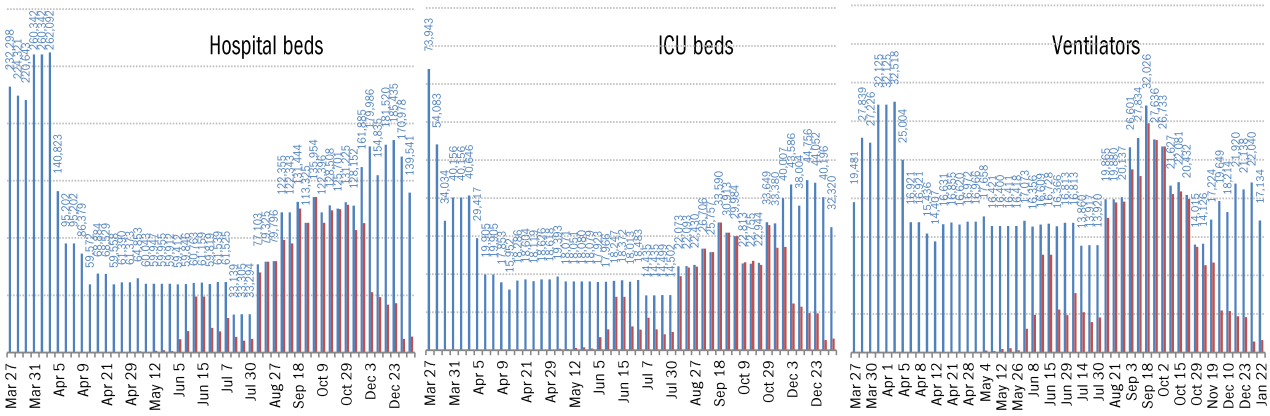


Cumulative fatalities

Actual versus first, highest, lowest and latest model mean predictions

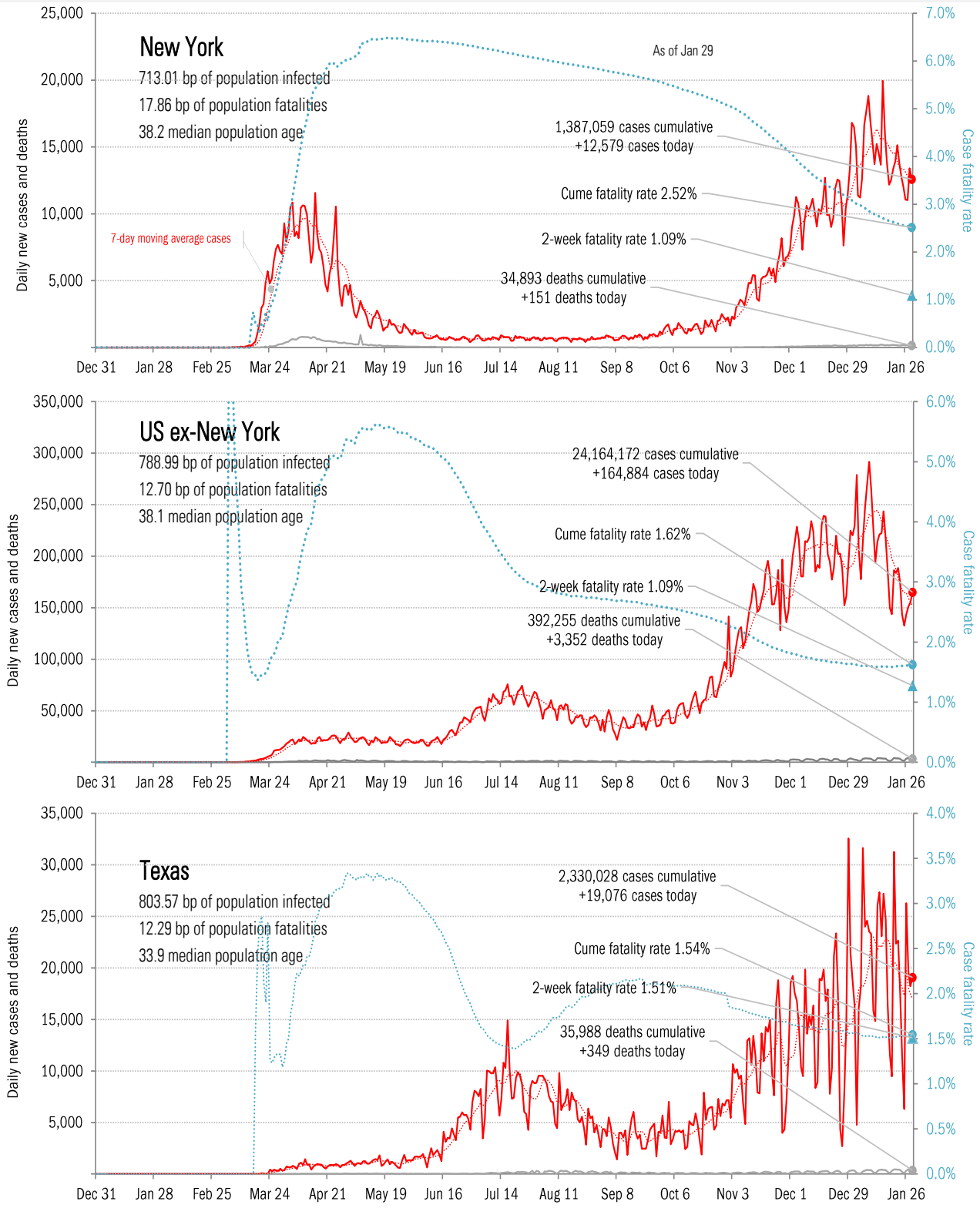


Healthcare system stress, peak and ultimate estimated at each model revision



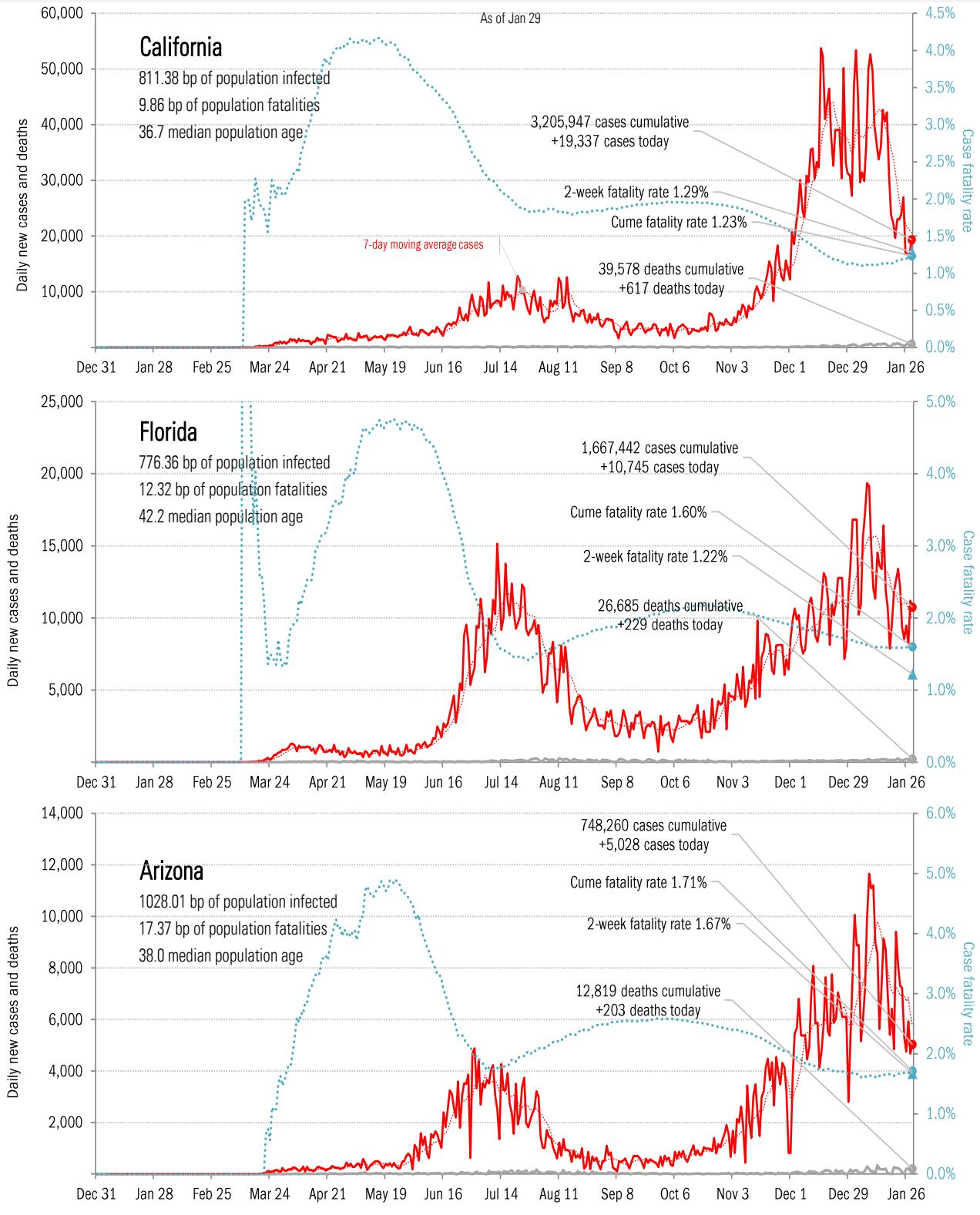
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



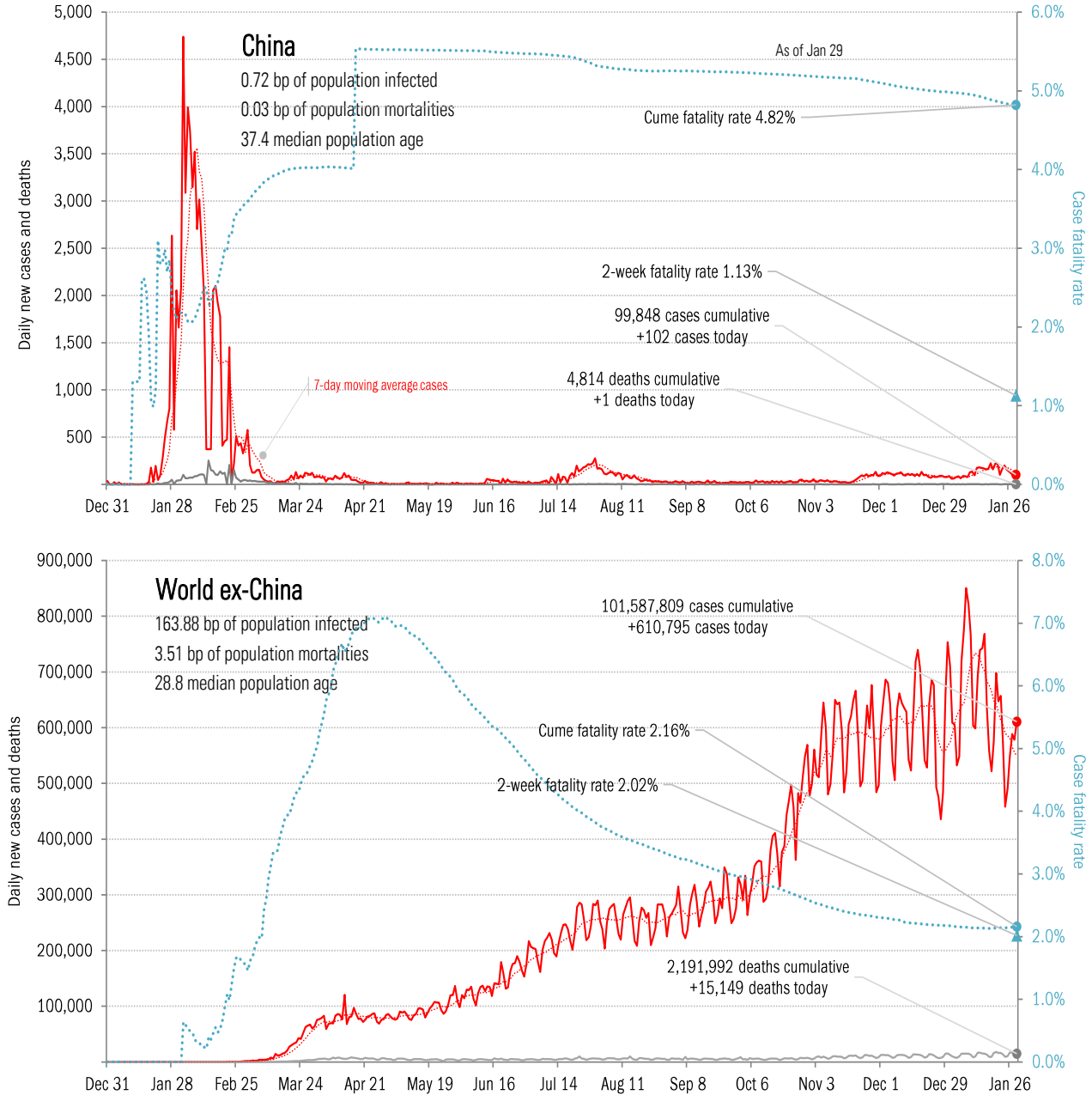
Source: Covid Tracking Project., TrendMacro calculations

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



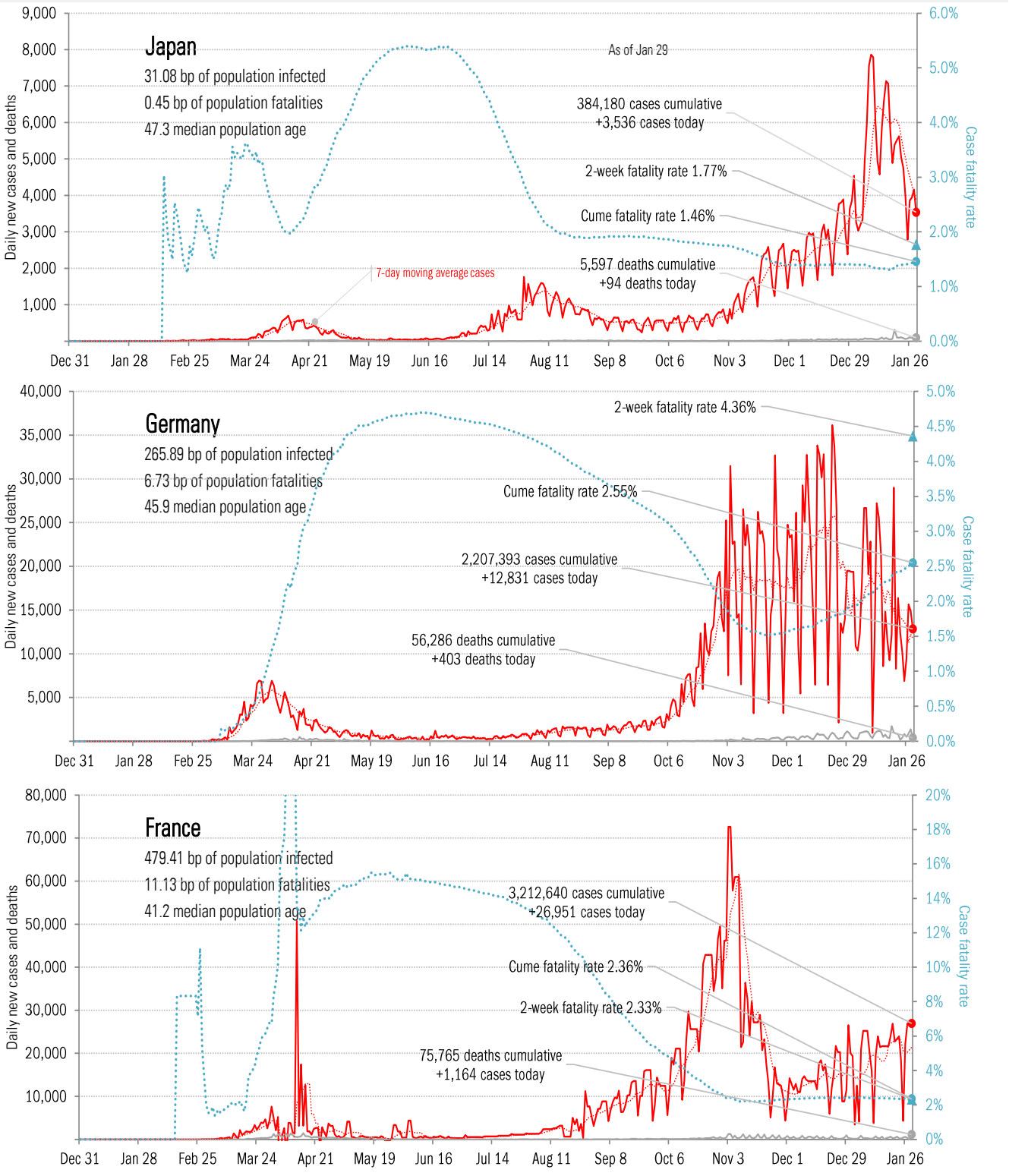
Source: Covid Tracking Project., TrendMacro calculations

Patient zero… and then everyone else



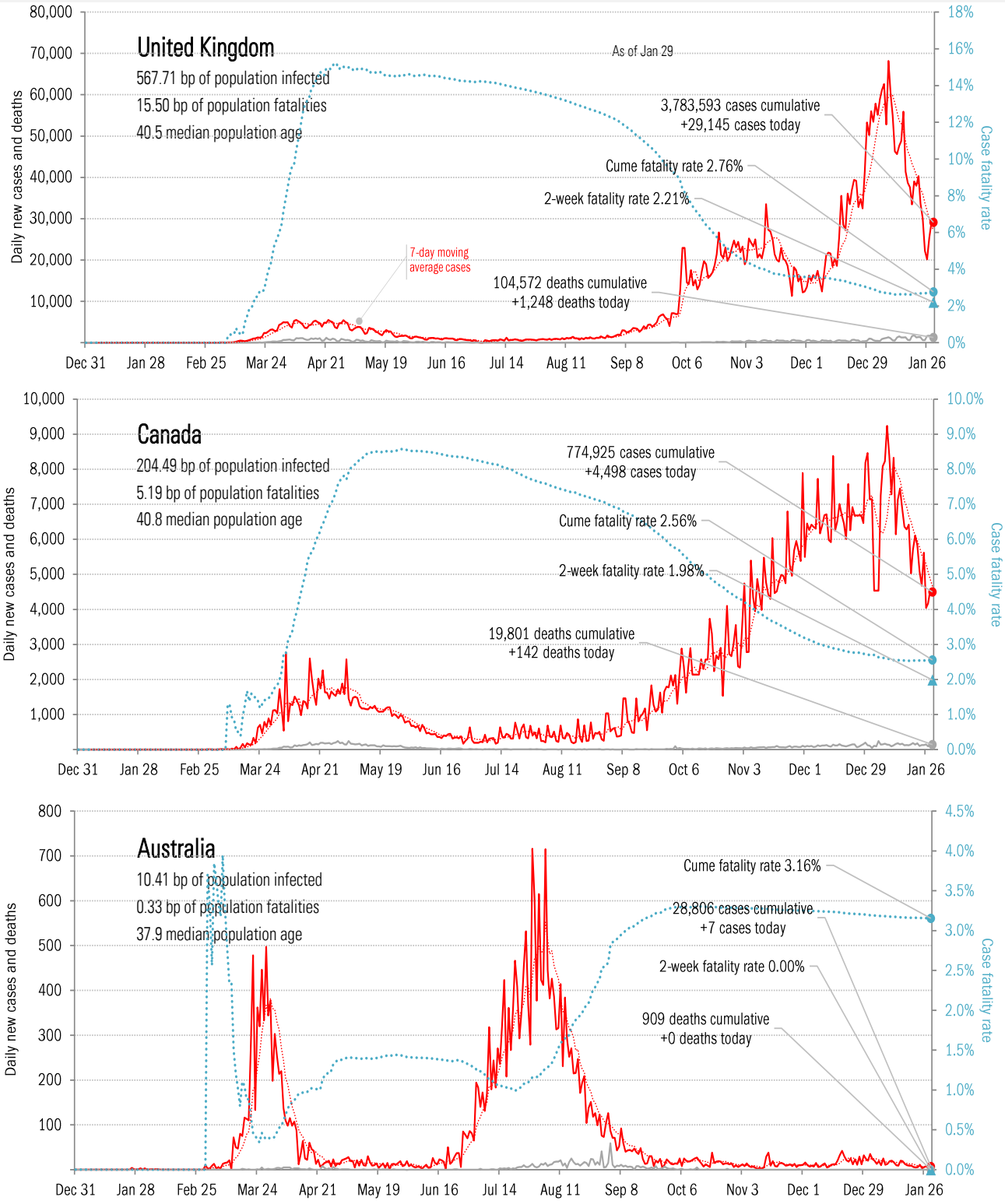
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



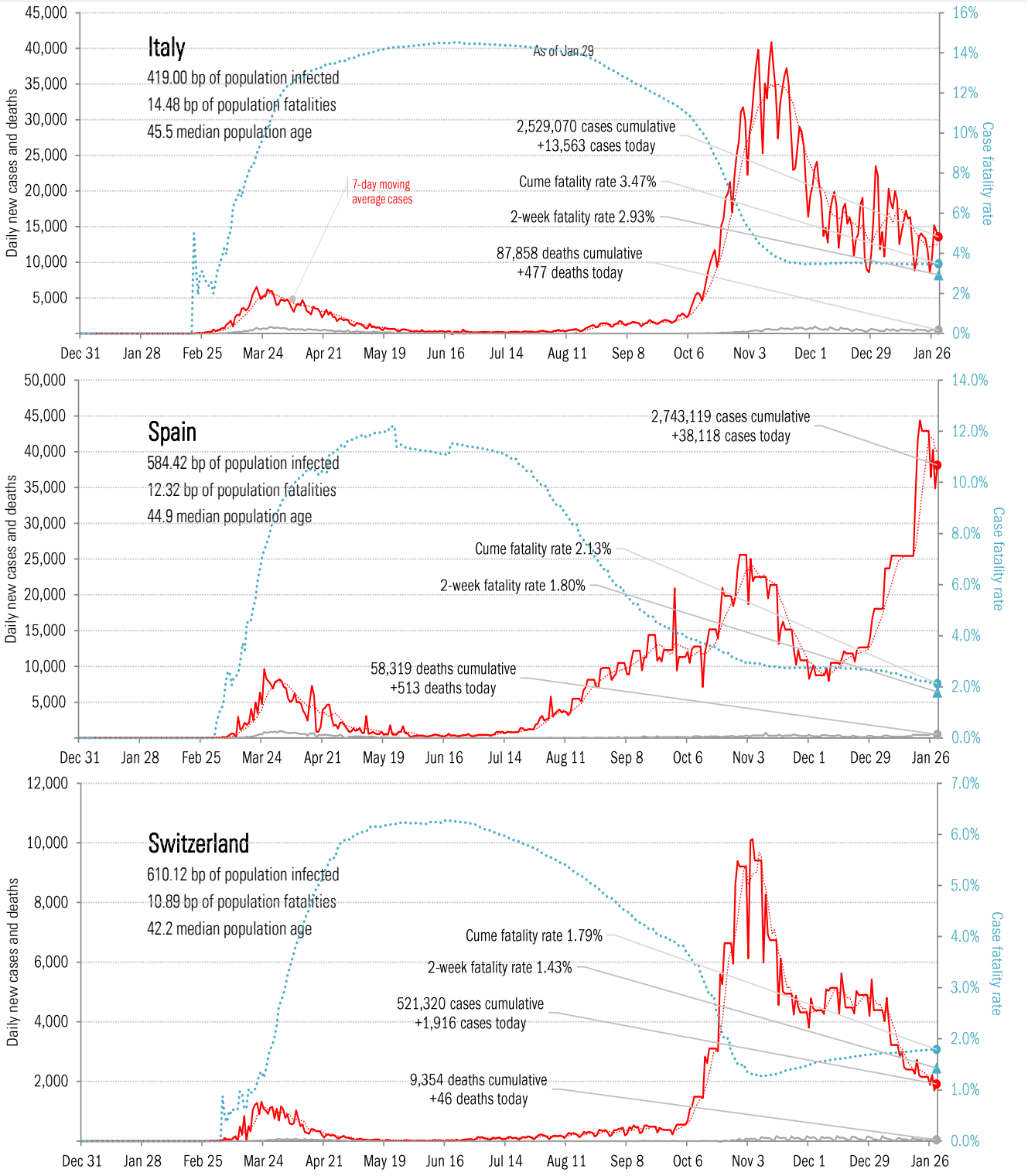
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



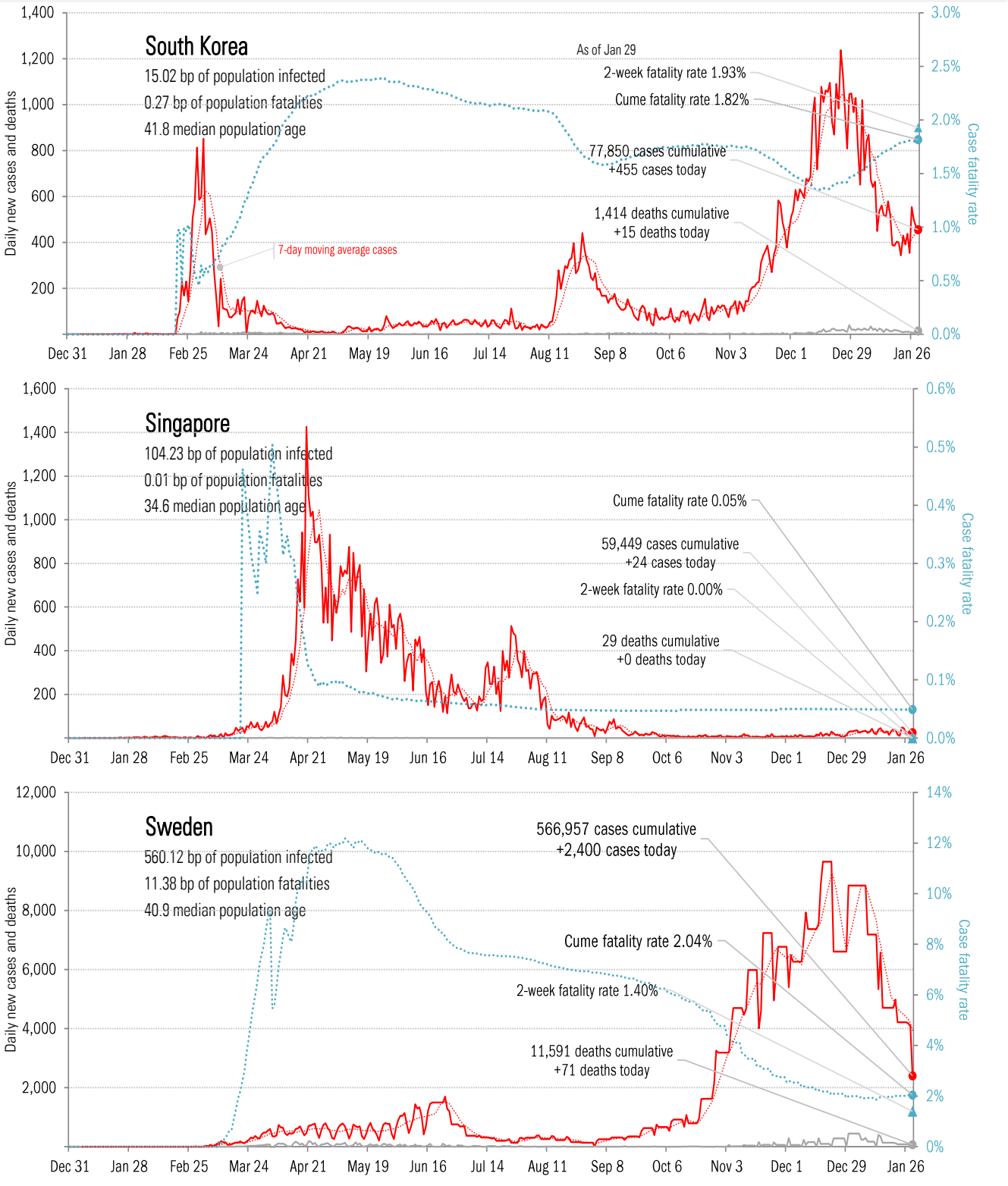
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



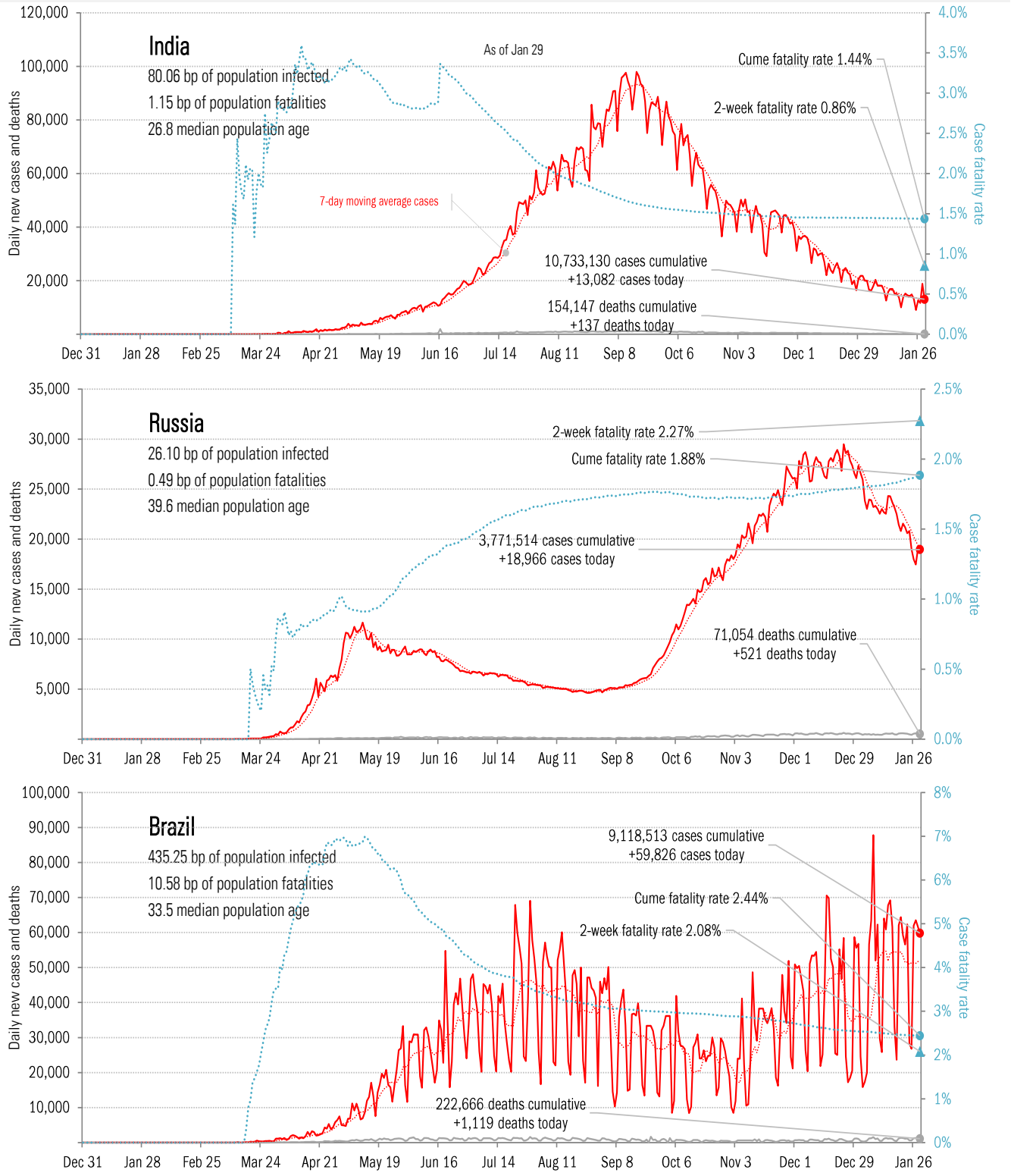
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



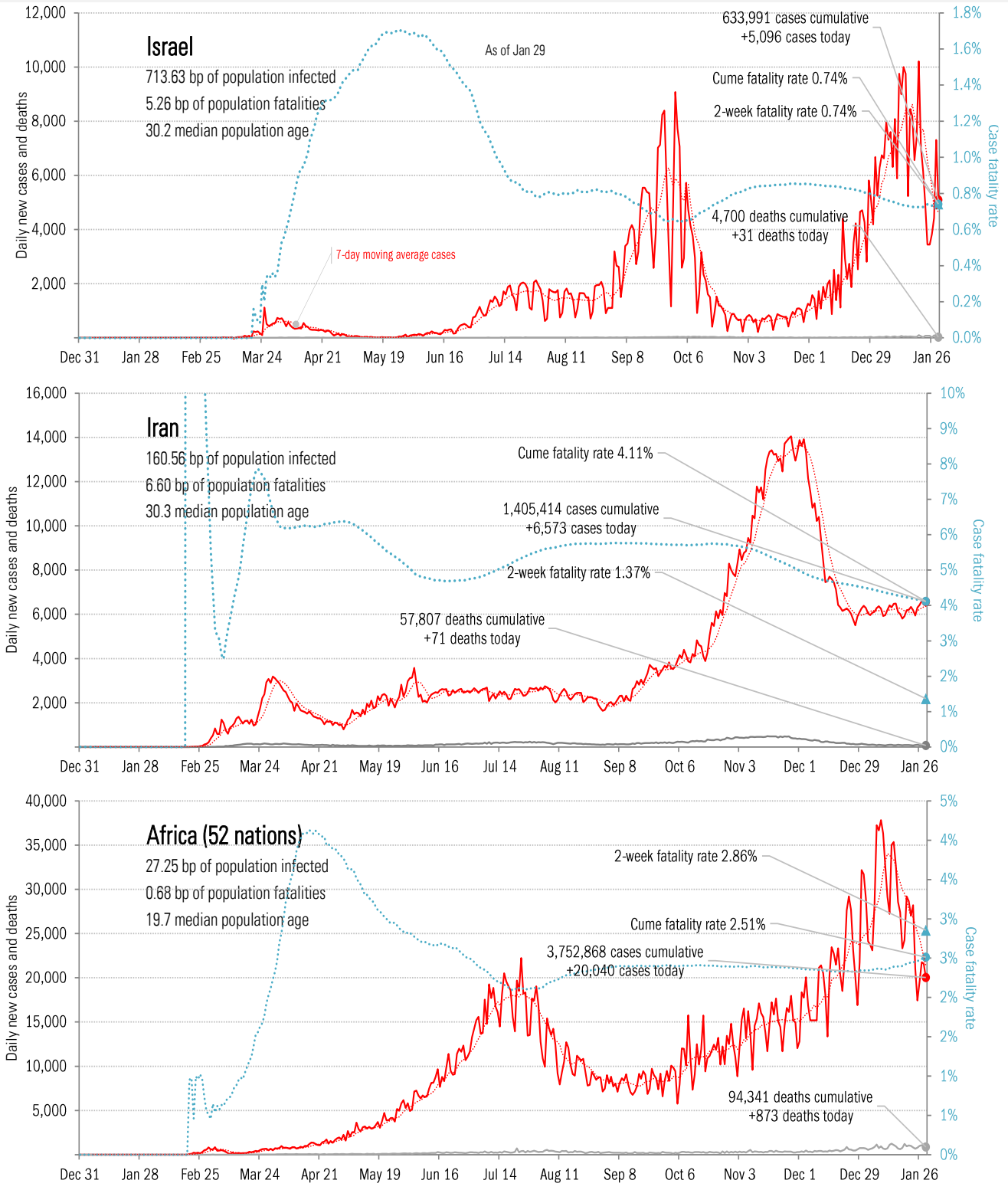
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations