Trend Macrolytics, LLC
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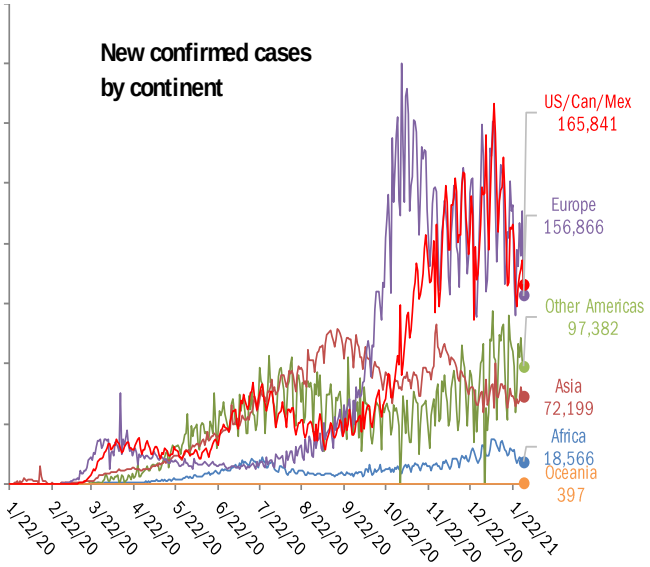
Data Insights: Covid-2019 Monitor

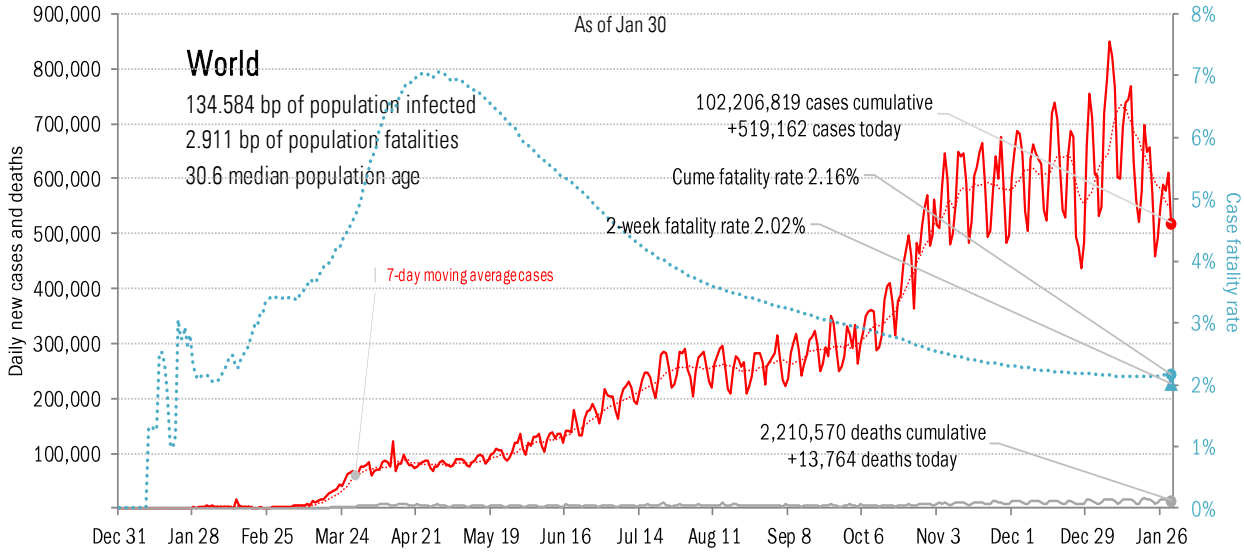
Sunday, January 31, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+146,657	United States	+2,972
Brazil	+58,462	Mexico	+1,495
France	+24,045	Brazil	+1,279
United Kingdom	+23,400	United Kingdom	+1,205
Russia	+18,751	Germany	+819
Germany	+17,518	Russia	+502
Mexico	+15,337	Italy	+421
#N/A	+14,518	Peru	+373
Peru	+13,337	Colombia	+366
India	+13,044	Lebanon	+351
	+345,069		+9,783
World	+519,162	World	+13,764
Top ten	66%	Top ten	71%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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The US scorecard

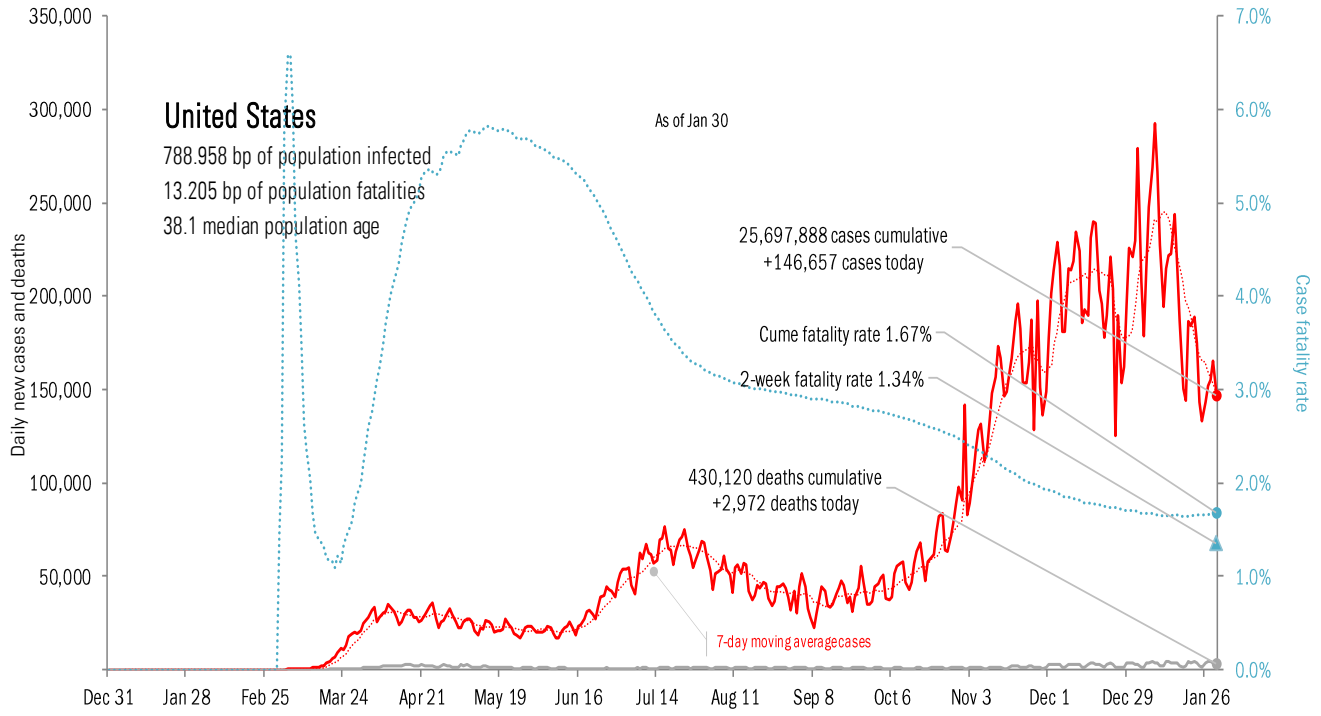
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TX	+19,234	CA	+638	NM	+10	CA	3,224,374	CA	40,216	NY	89,995	RI	104%	GA	90%
CA	+18,427	TX	+332	DC	+6	TX	2,349,262	TX	36,320	FL	73,220	MA	81%	RI	89%
FL	+14,654	GA	+210	NH	+3	FL	1,682,096	NY	35,036	NJ	60,471	SC	80%	CA	88%
NY	+12,804	NY	+143	HI	+2	NY	1,399,863	FL	26,795	AZ	52,006	CT	80%	AL	88%
NC	+6,168	PA	+140	VT	+2	IL	1,123,873	PA	21,602	GA	50,132	GA	80%	DE	88%
NJ	+5,274	NC	+130	AS	+0	OH	892,781	NJ	21,455	OH	46,135	MD	80%	FL	85%
PA	+5,191	MI	+115	CO	+0	PA	839,239	IL	21,213	AL	41,859	CA	79%	TX	84%
AZ	+5,119	TN	+113	CT	+0	AZ	753,379	MI	15,525	IN	40,266	FL	79%	OK	83%
GA	+4,876	FL	+110	GU	+0	NC	752,627	MA	14,531	MD	31,888	DC	77%	DC	81%
VA	+4,309	MA	+87	KS	+0	GA	746,867	GA	14,196	MN	24,269	MO	77%	NC	81%
	+96,056		+2,018		+23		13,764,361		246,889		510,241				
All states	+146,657		+2,972		-3442	All states	25,697,888		430,120		804,781	All states	73%		75%
Top ten	65%		68%		-1%	Top ten	54%		57%		63%	Median	71%		73%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
PA	-4,452	AL	-226	TX	-109	TX	+19,833
AL	-2,848	AZ	-127	TN	-105	MI	+18,695
TN	-2,657	FL	-119	CA	-78	PA	+12,597
LA	-2,367	KS	-61	OH	-77	OH	+5,296
KS	-2,168	LA	-58	IL	-68	TN	+3,969



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
49.93 million doses distributed	+0.72 million/day
29.58 million doses administered	+1.69 million/day
24.06 million persons with one or more shot	+1.21 million/day
5.26 million persons with two or more shots	+0.48 million/day
3.51 million shots in long-term care	+0.19 million/day

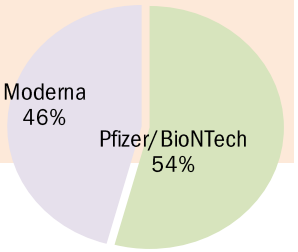
59.2% of distributed doses administered

9.0% of US population vaccinated

7.3% of US population 1 shot **1.6% 2 shots**

78.2% of US LTC resident/staff vaccinated

66.7% of LTC resident/staff 1 shot **11.3% 2 shots**



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

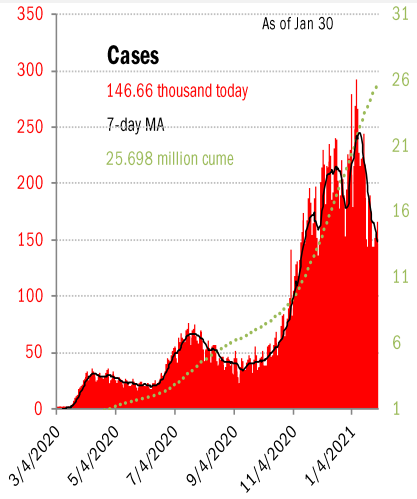
AK										ME
26.3%										15.7%
12.1%										7.0%
3.0%										2.1%
					WI				VT	NH
					13.6%				16.0%	15.0%
					5.8%				7.6%	6.8%
					1.1%				2.3%	1.8%
WA	ID	MT	ND	MN	IL	MI		NY	MA	
13.2%	12.4%	13.3%	14.0%	14.8%	13.1%	13.6%		14.5%	15.3%	
6.5%	5.0%	6.7%	8.4%	6.0%	5.4%	7.0%		7.0%	6.1%	
1.3%	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%

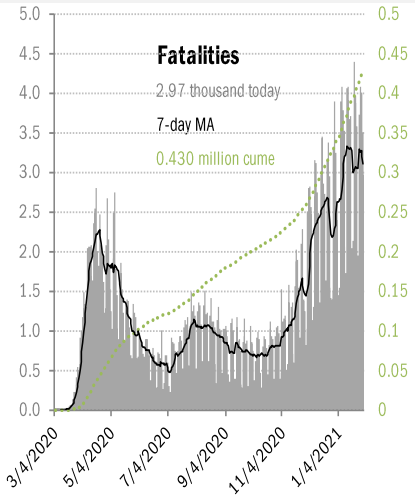
As of Jan 30

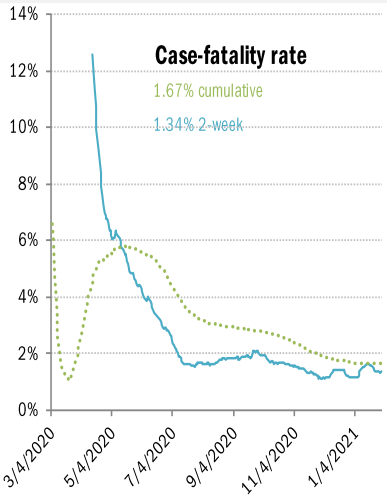
Source: CDC, CDC, TrendMacro calculations

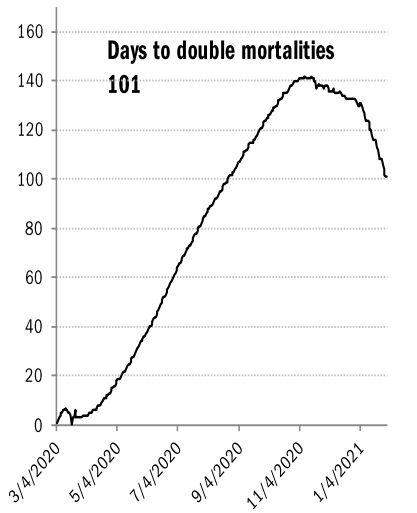
US deep-dive

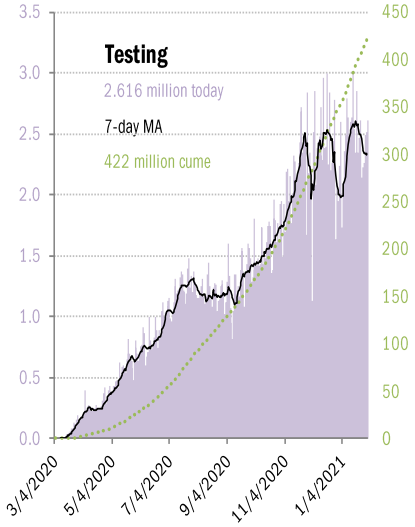
National and state-by-state data do not line up because of different sources

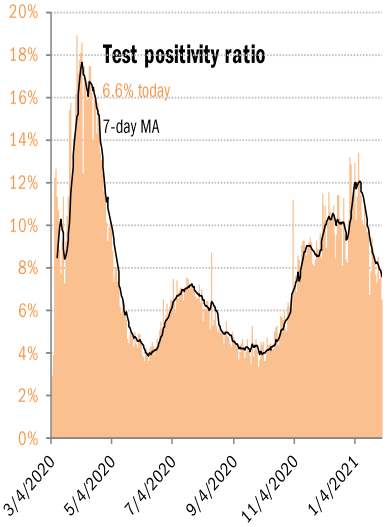


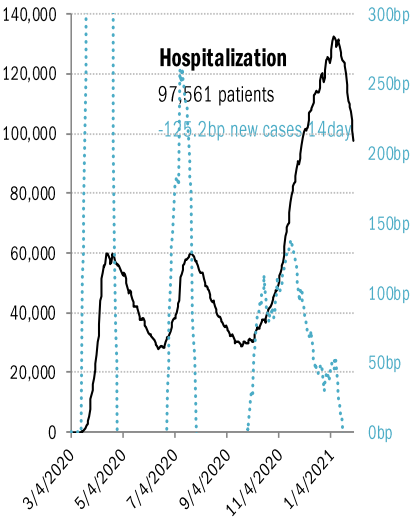


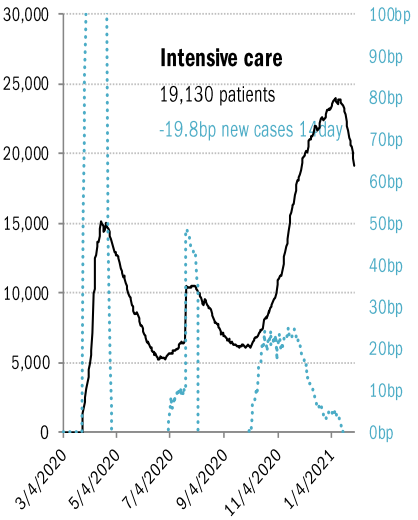


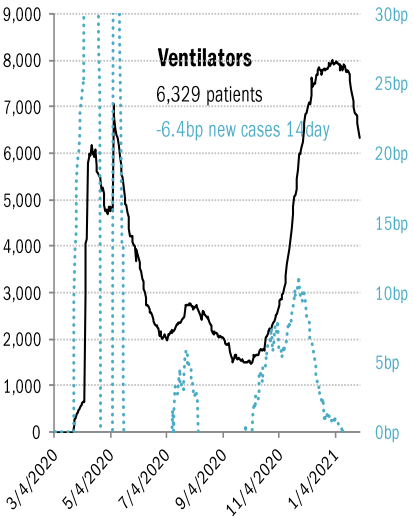






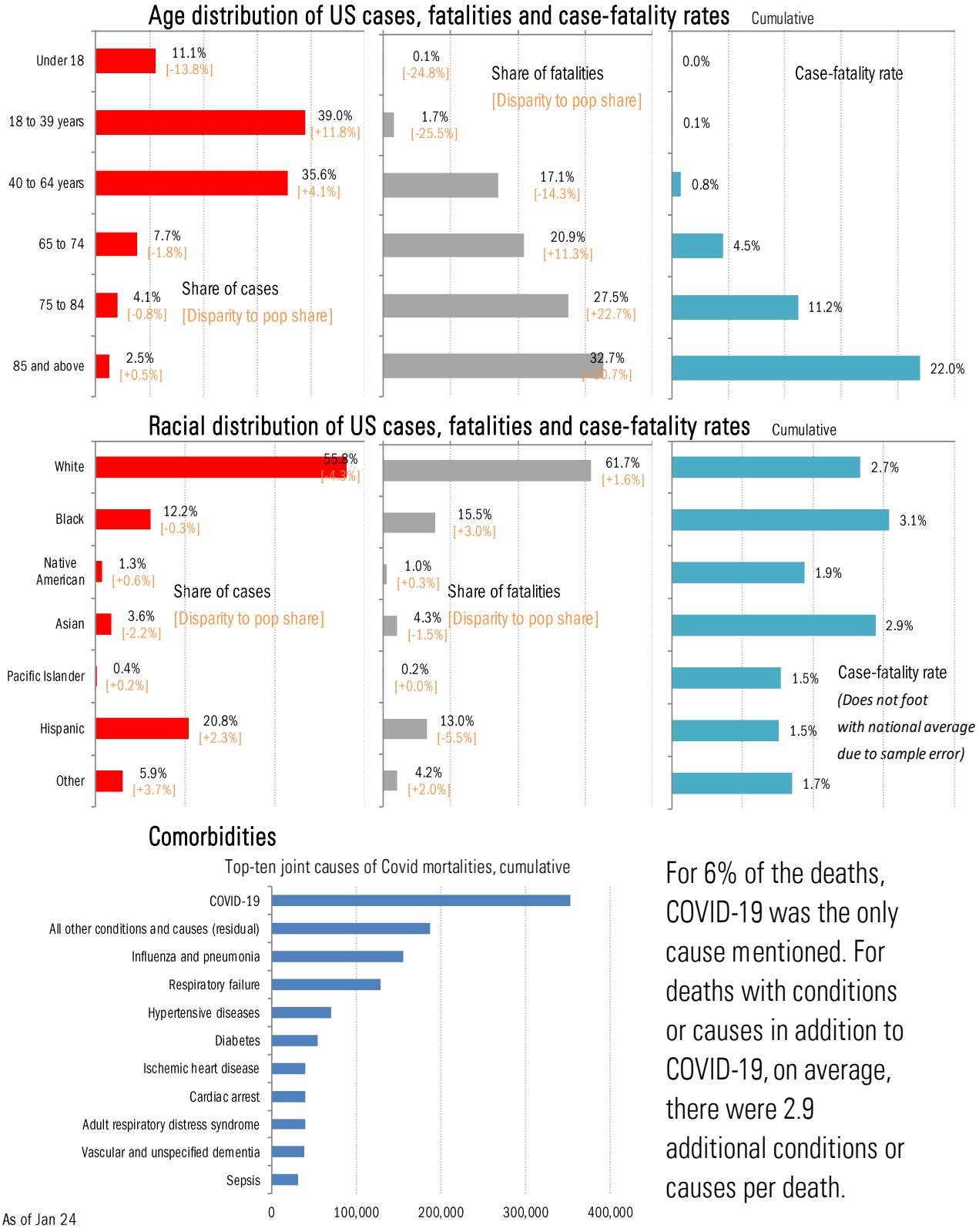






Source: Covid Tracking Project, TrendMacro calculations

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



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.

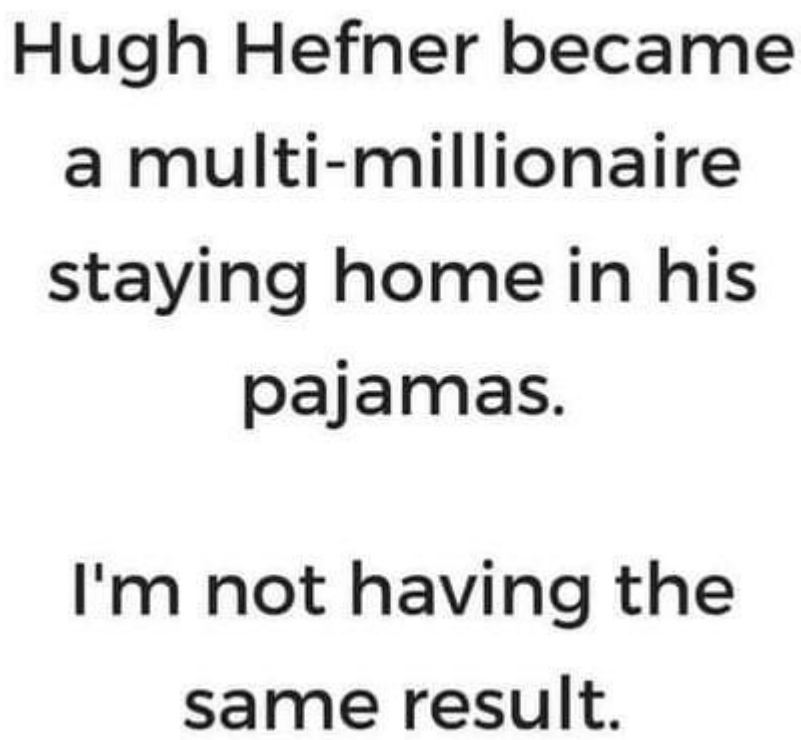
Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

The C.D.C. issued an order that requires masks for domestic travel.
Zach Montague
New York Times
January 30, 2021

Does vitamin D deficiency raise COVID-19 risk?
Peter Attia
Peter Attia
January 31, 2021

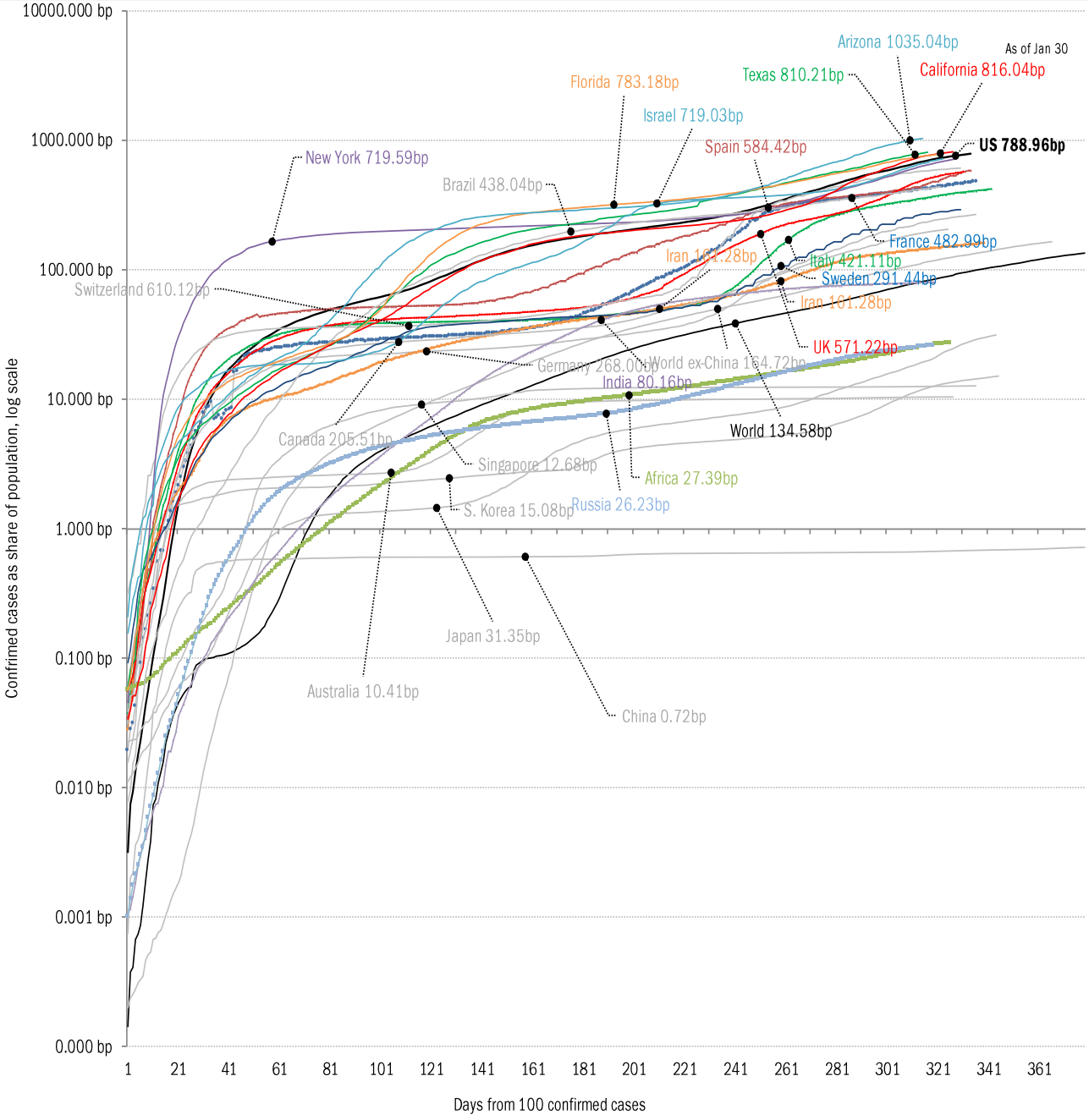
Meme of day



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

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

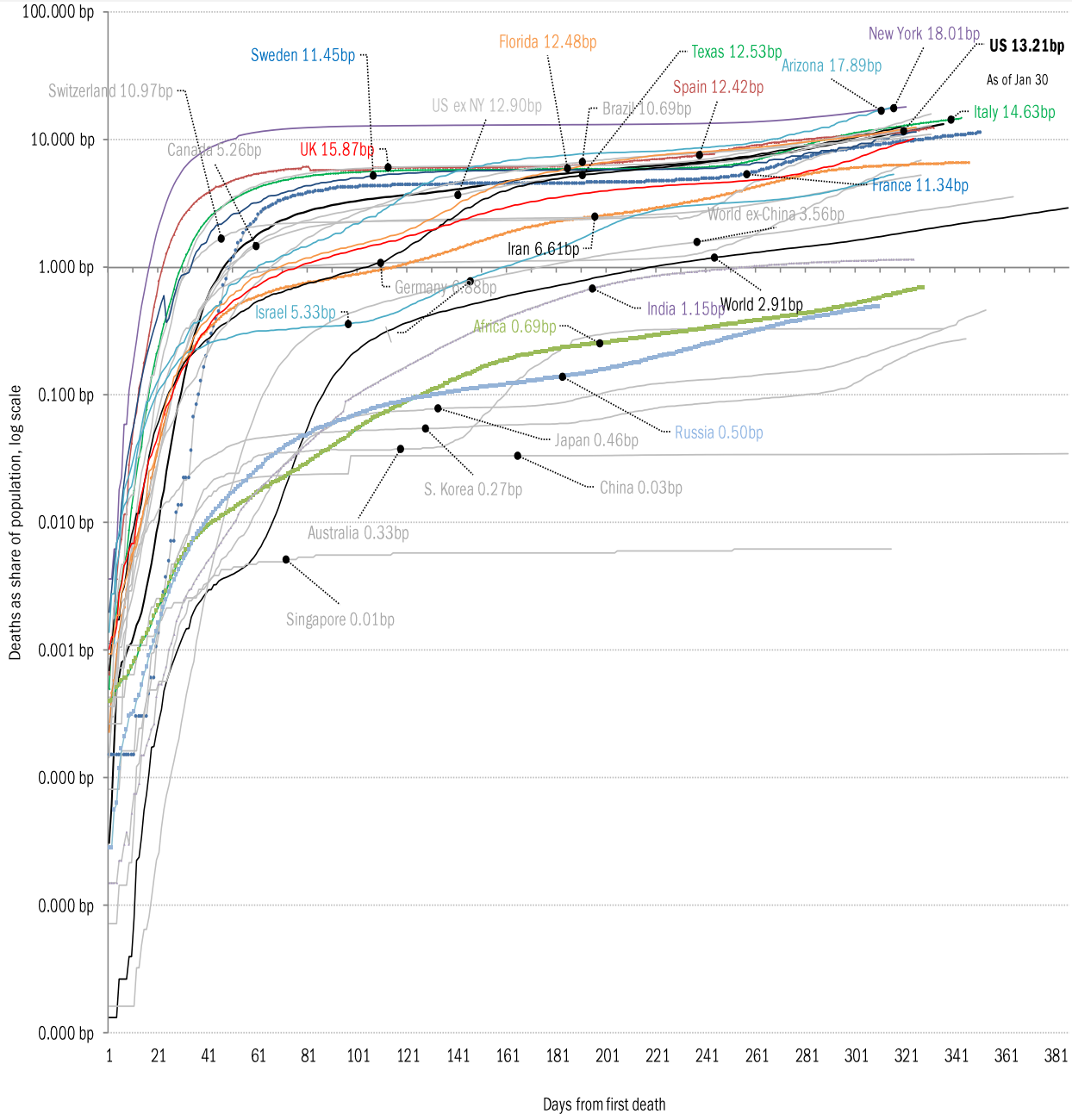
Share of infected population from first day with 100 confirmed cases, log scale



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

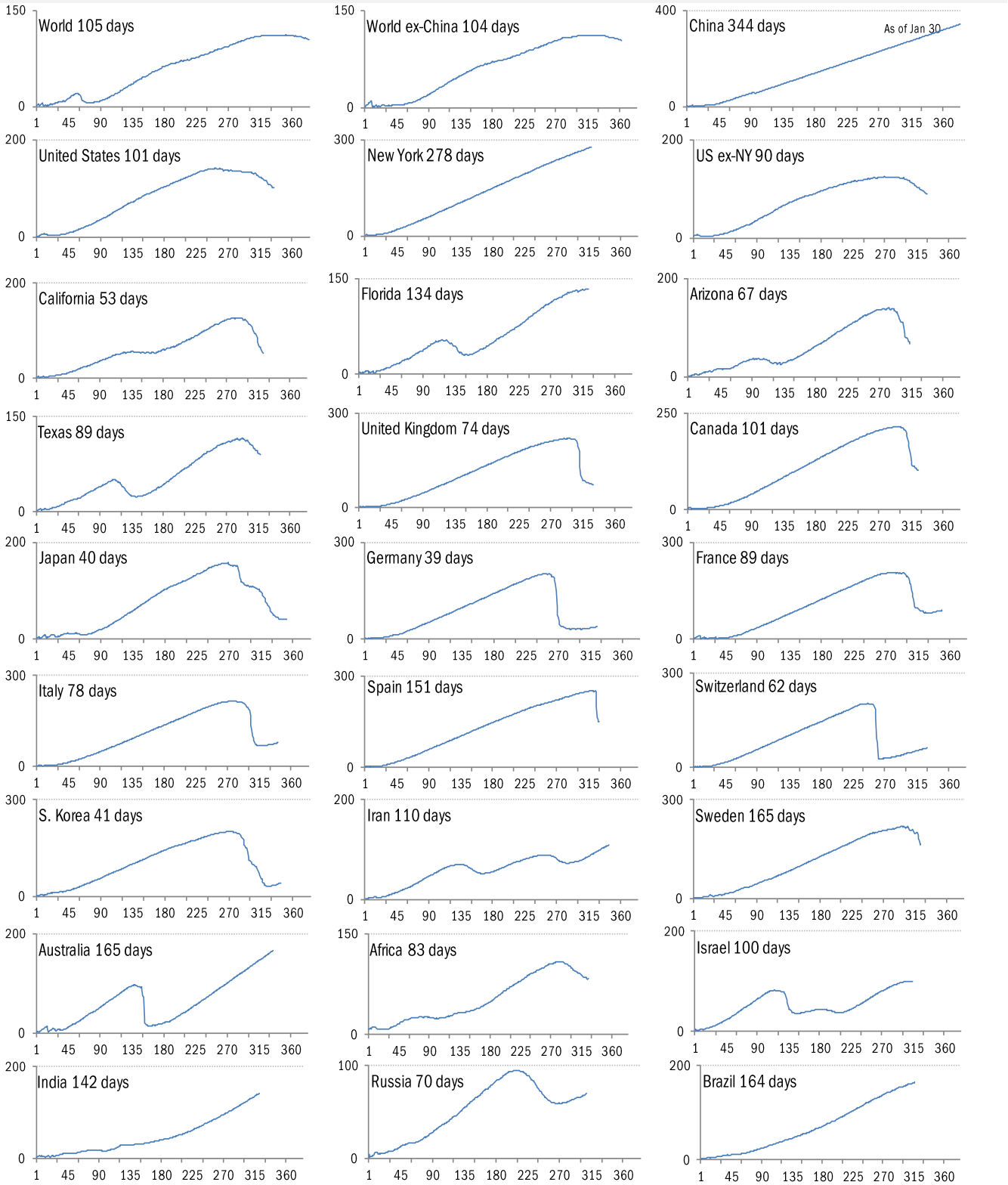


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

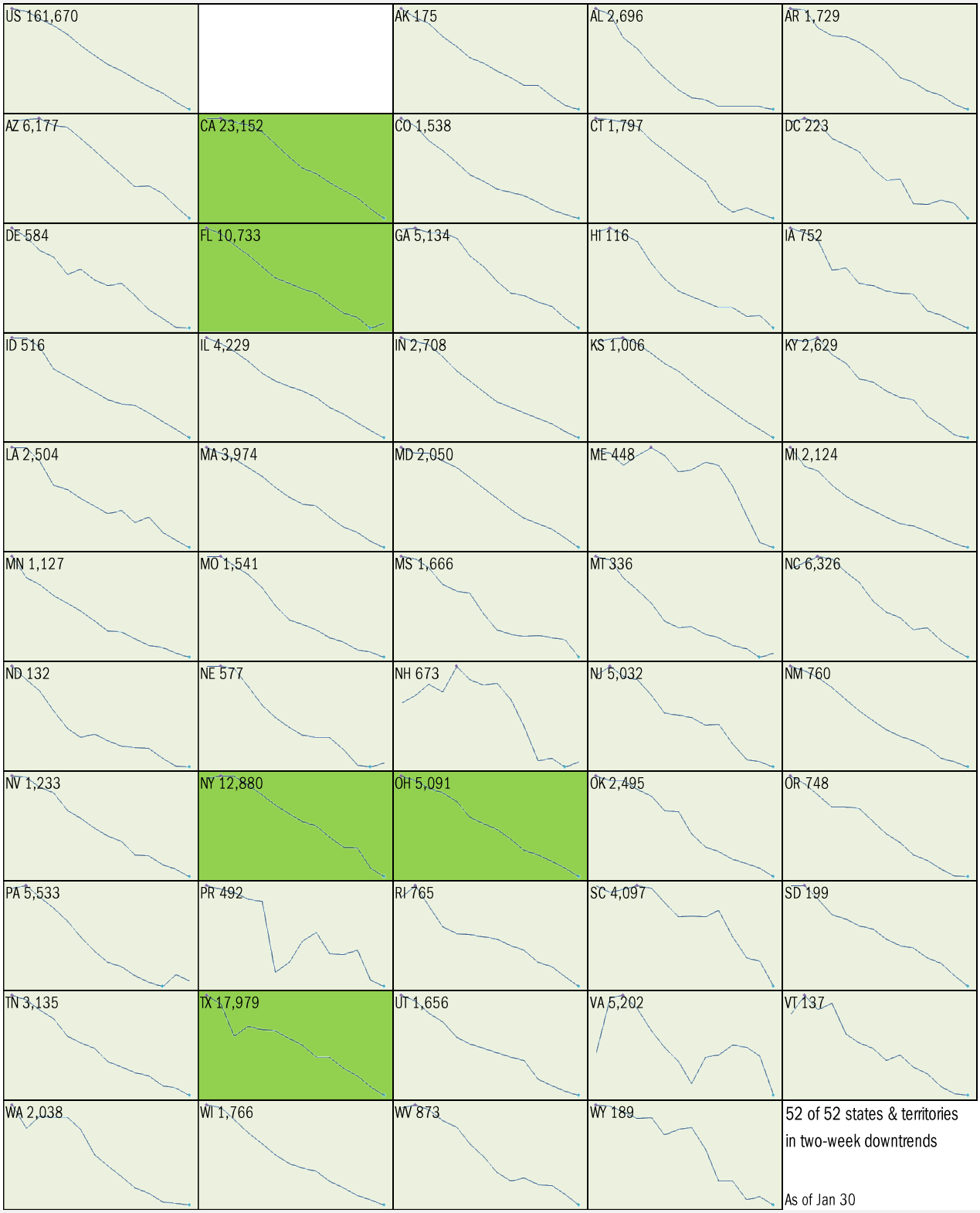


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

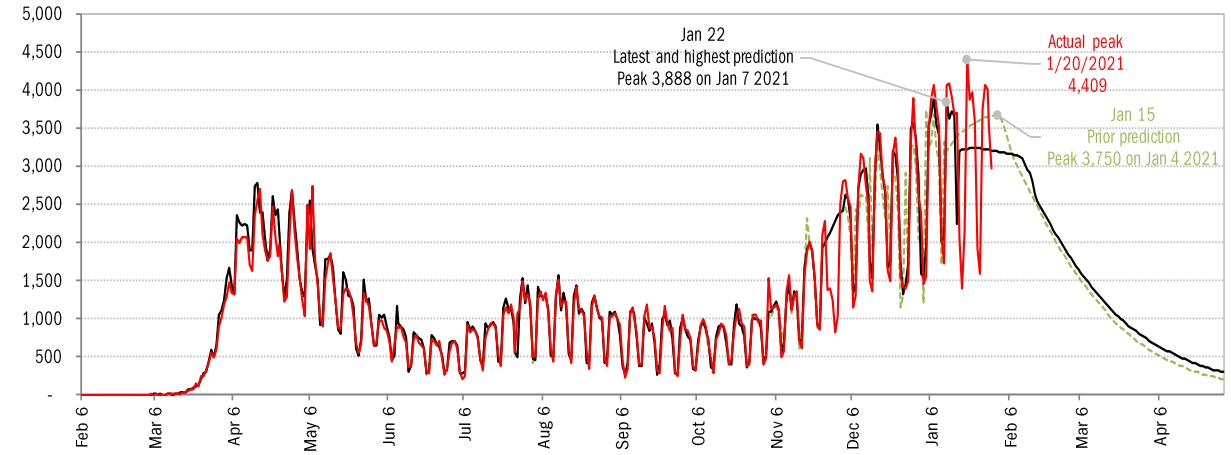
Downward trajectory Five best Upward trajectory Five worst

Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

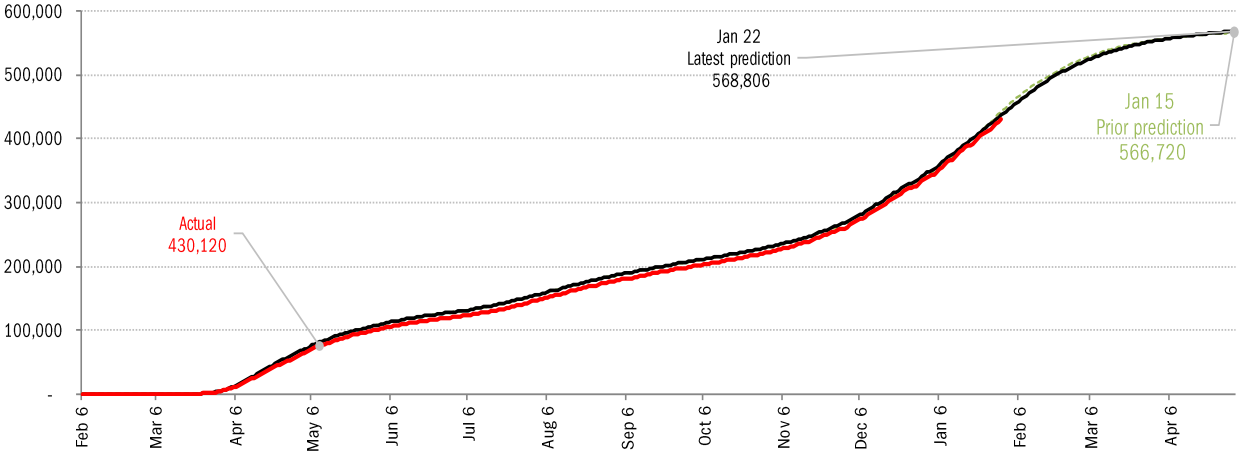
New daily fatalities As of Jan 30

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

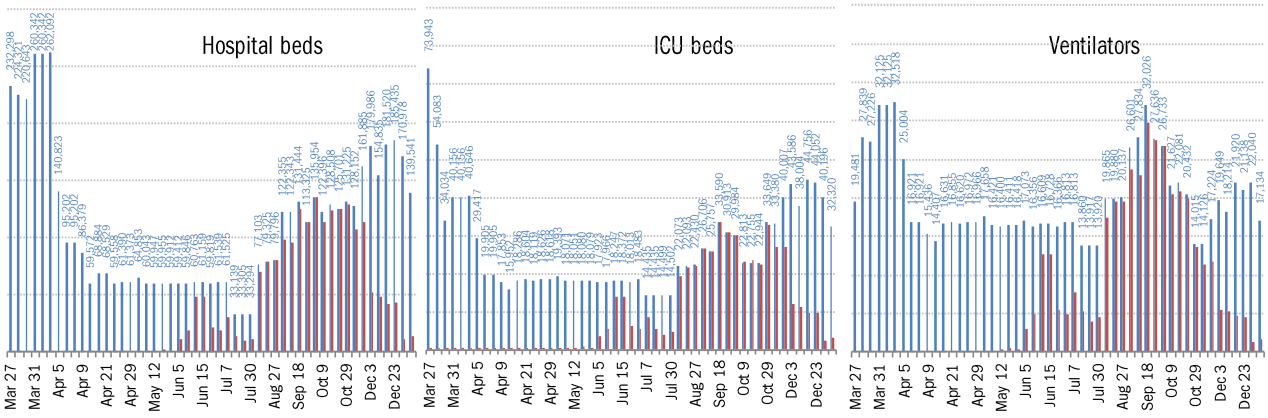


Cumulative fatalities

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

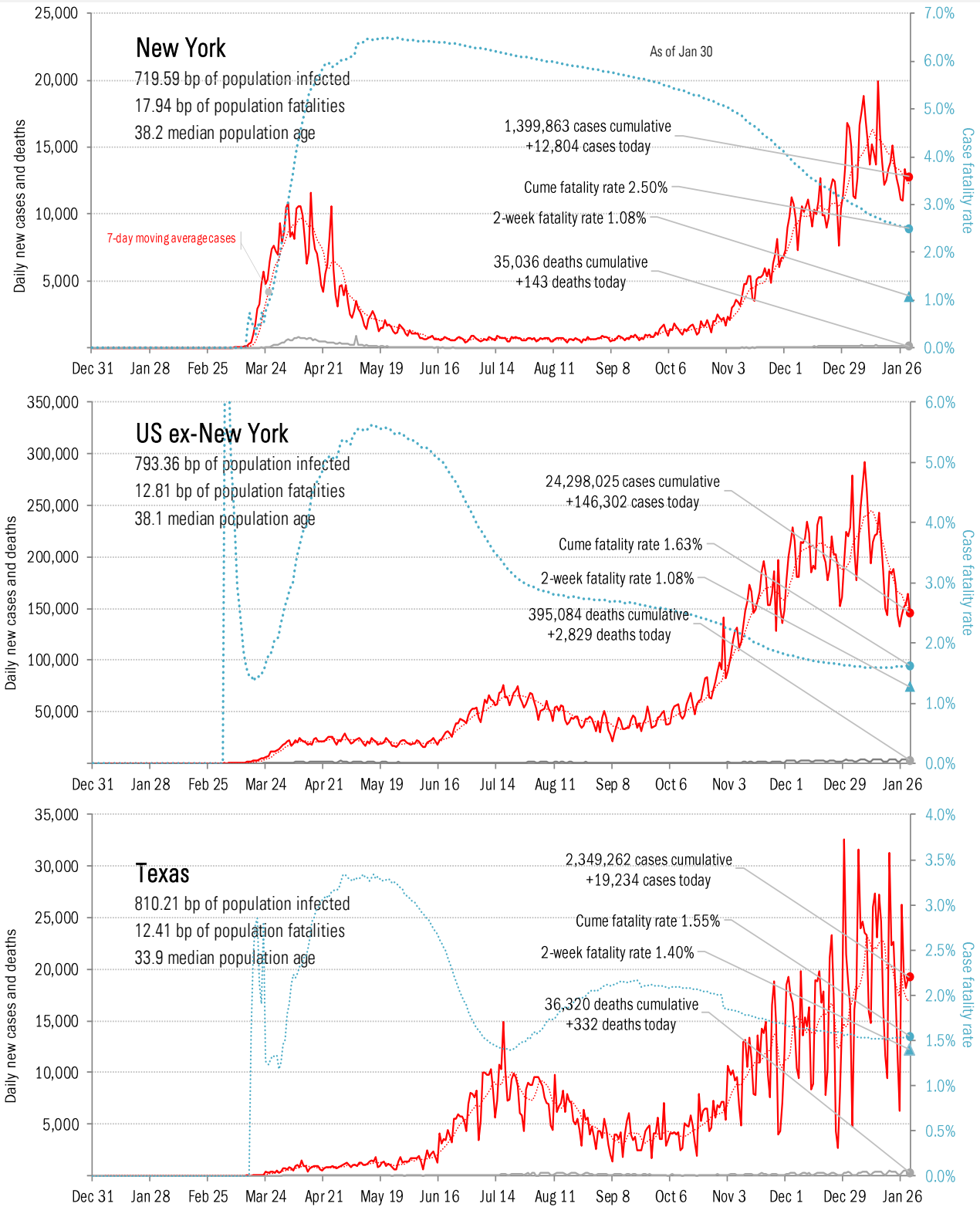


Healthcare system stress, peak and ultimate estimated at each model revision



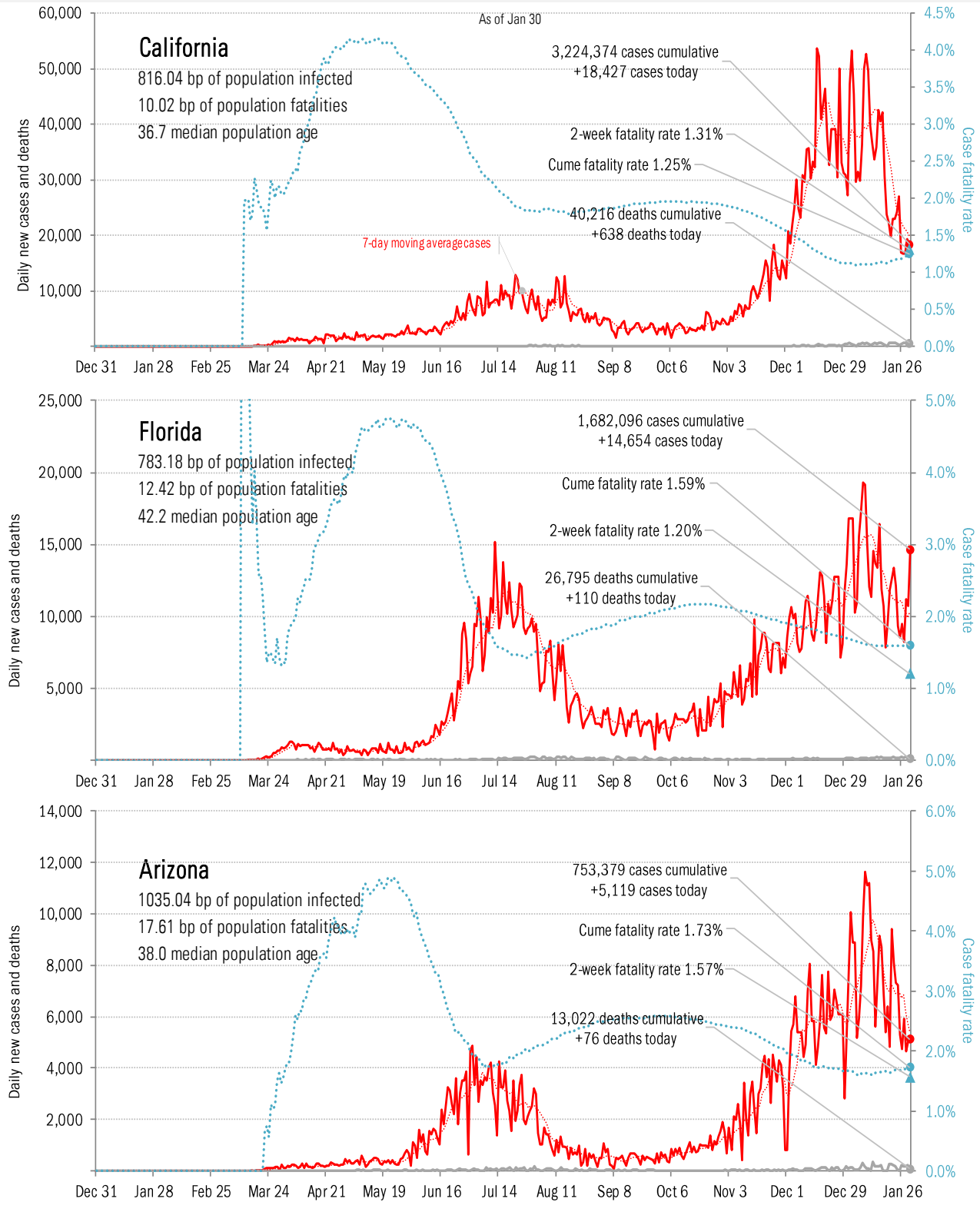
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



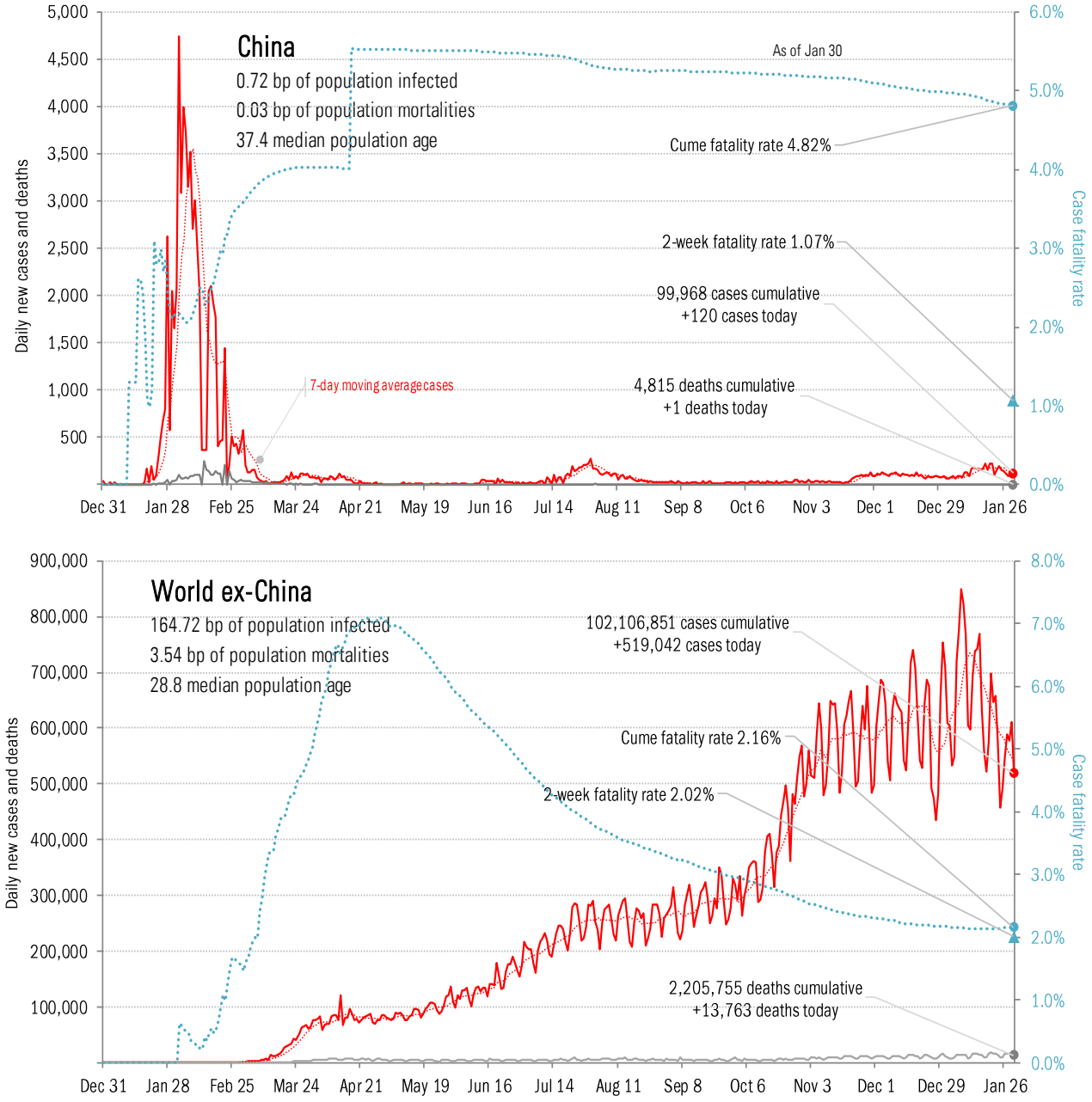
Source: Covid Tracking Project., TrendMacro calculations

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



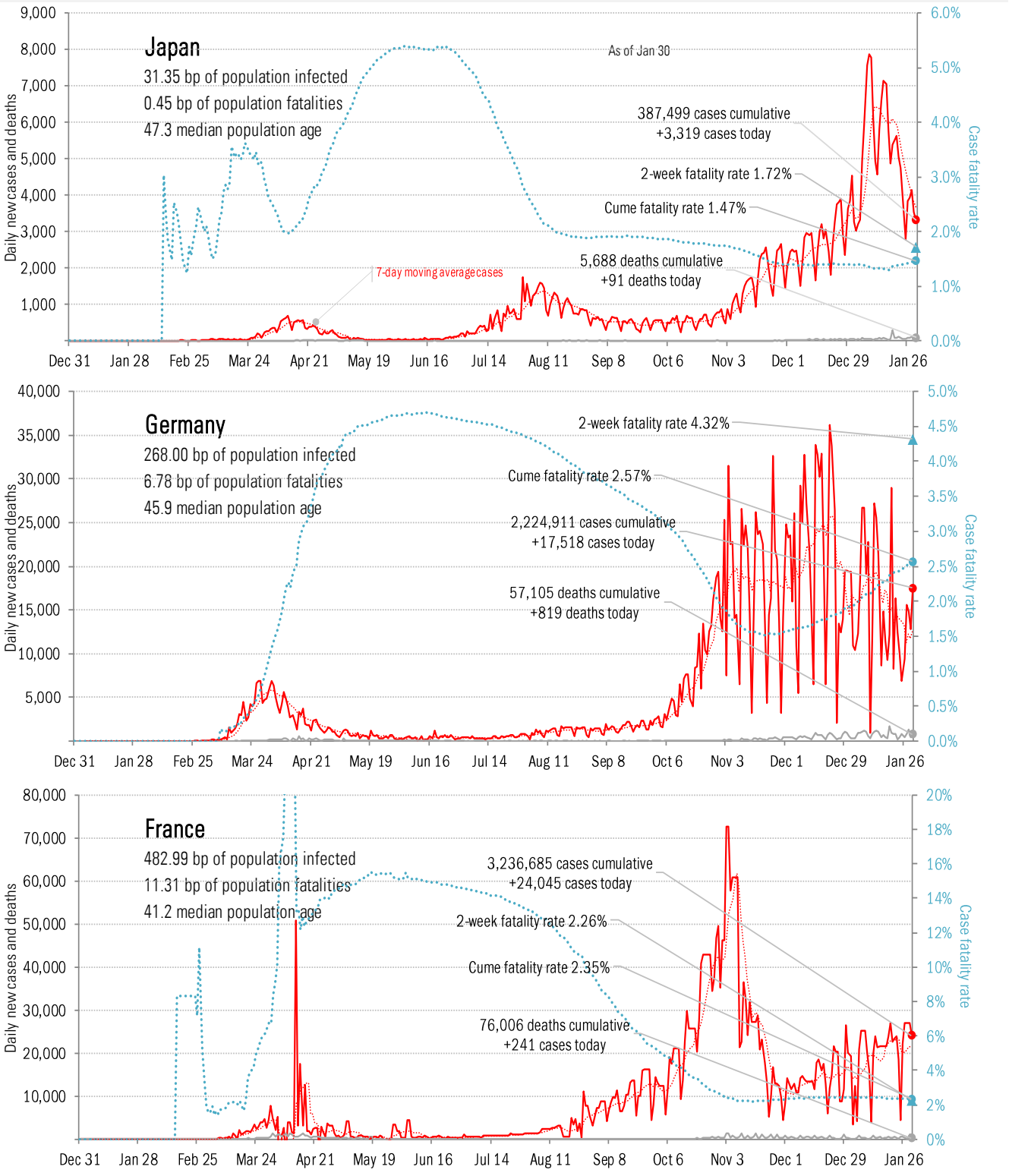
Source: Covid Tracking Project., TrendMacro calculations

Patient zero… and then everyone else



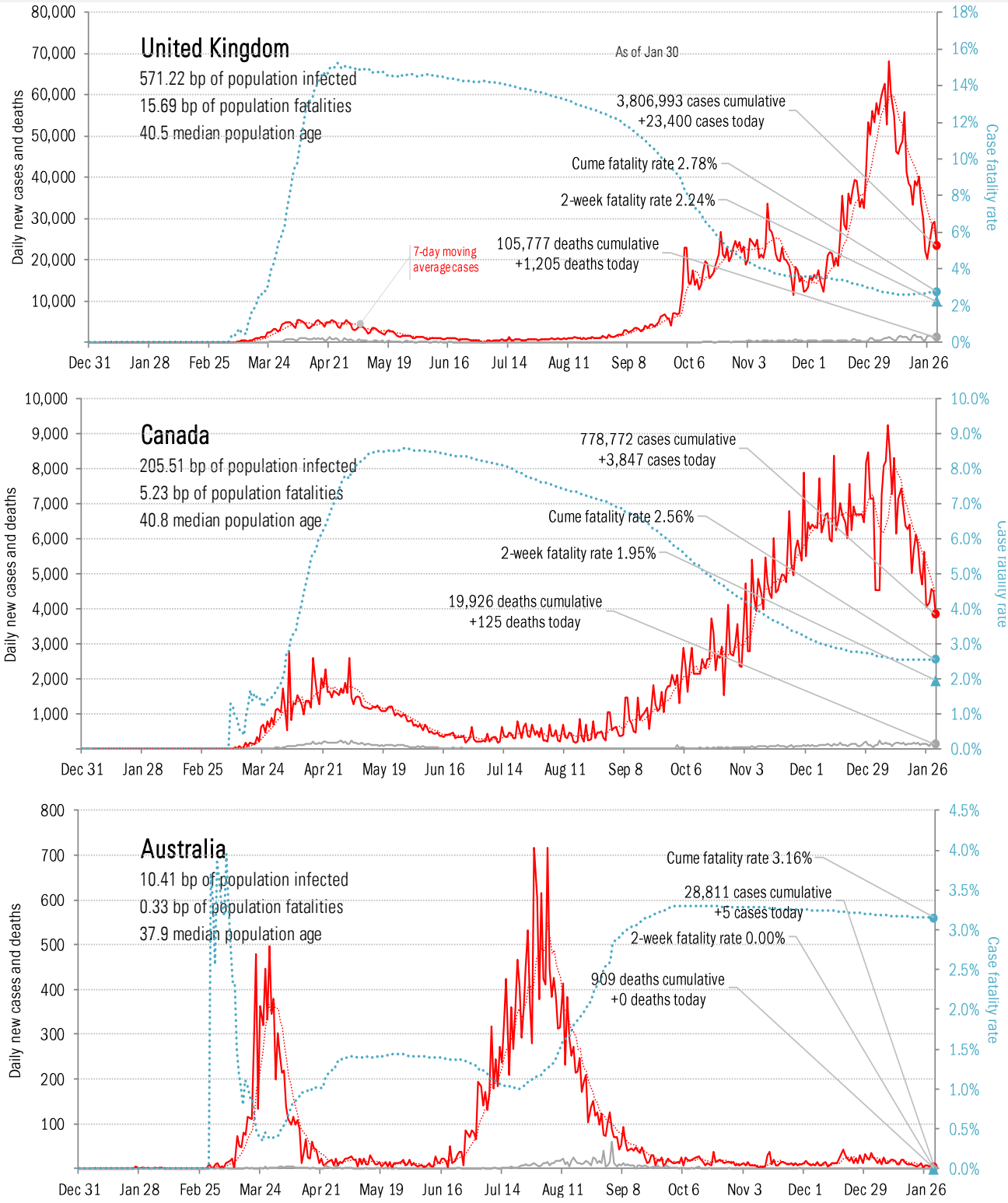
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



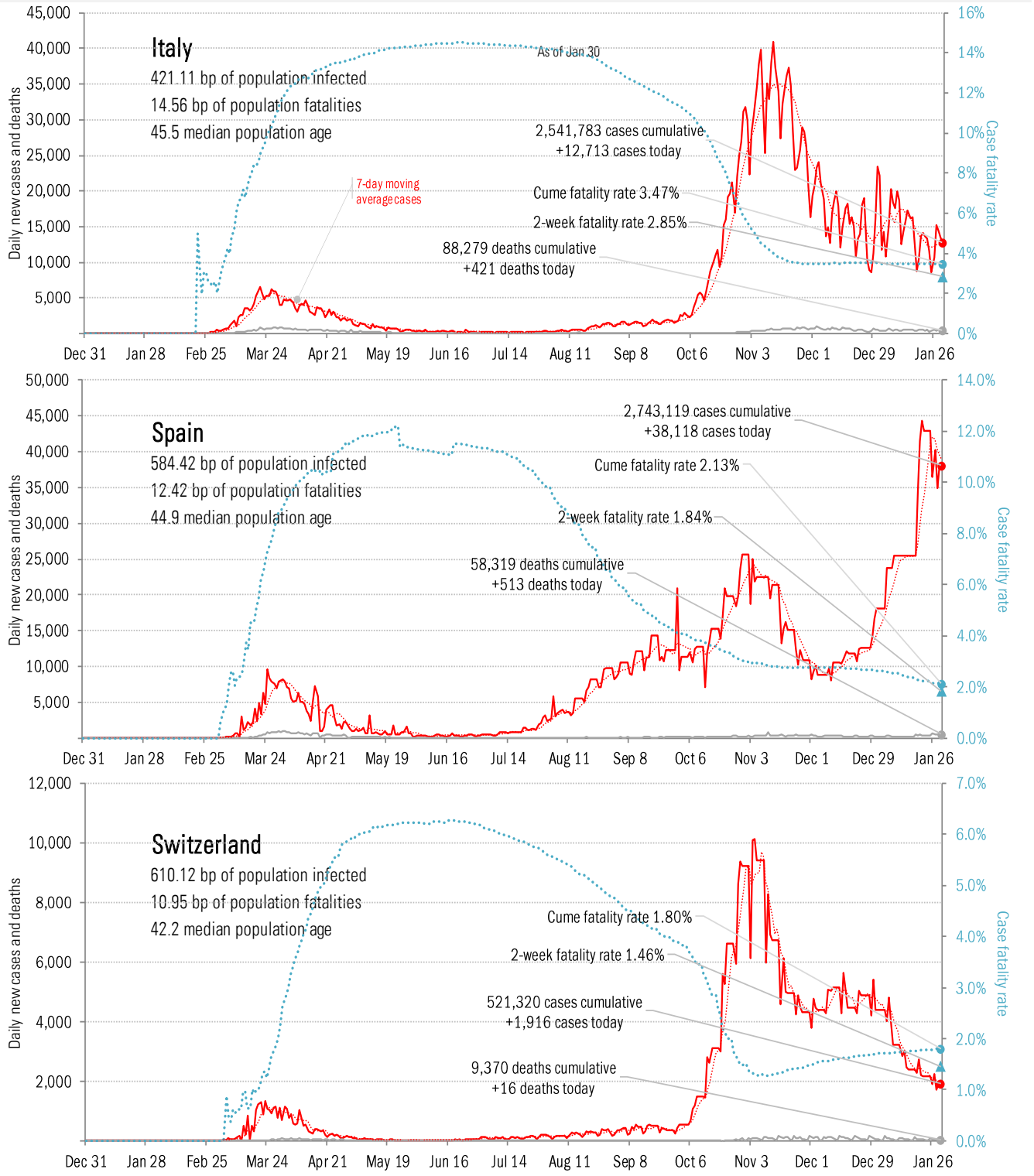
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



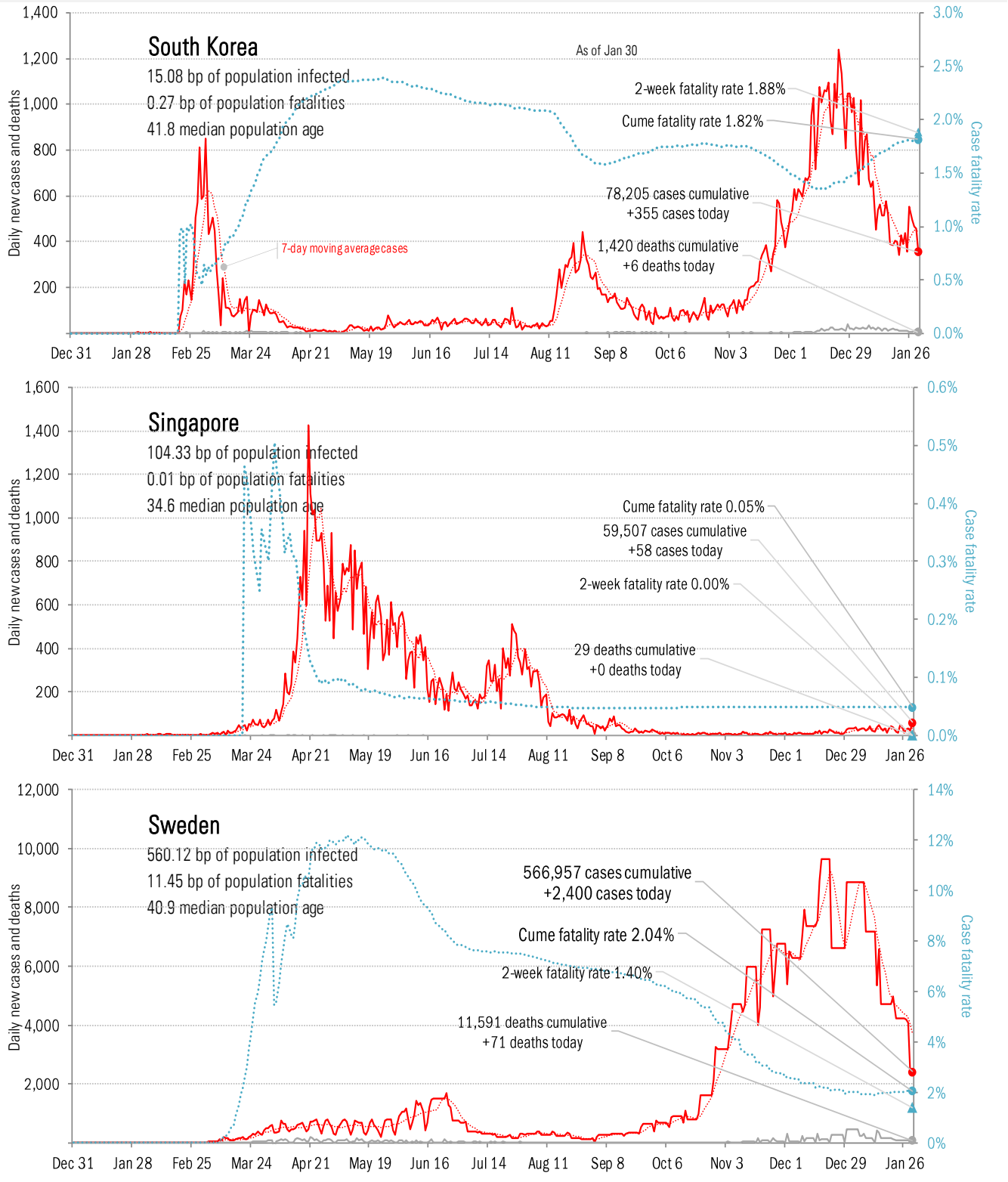
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



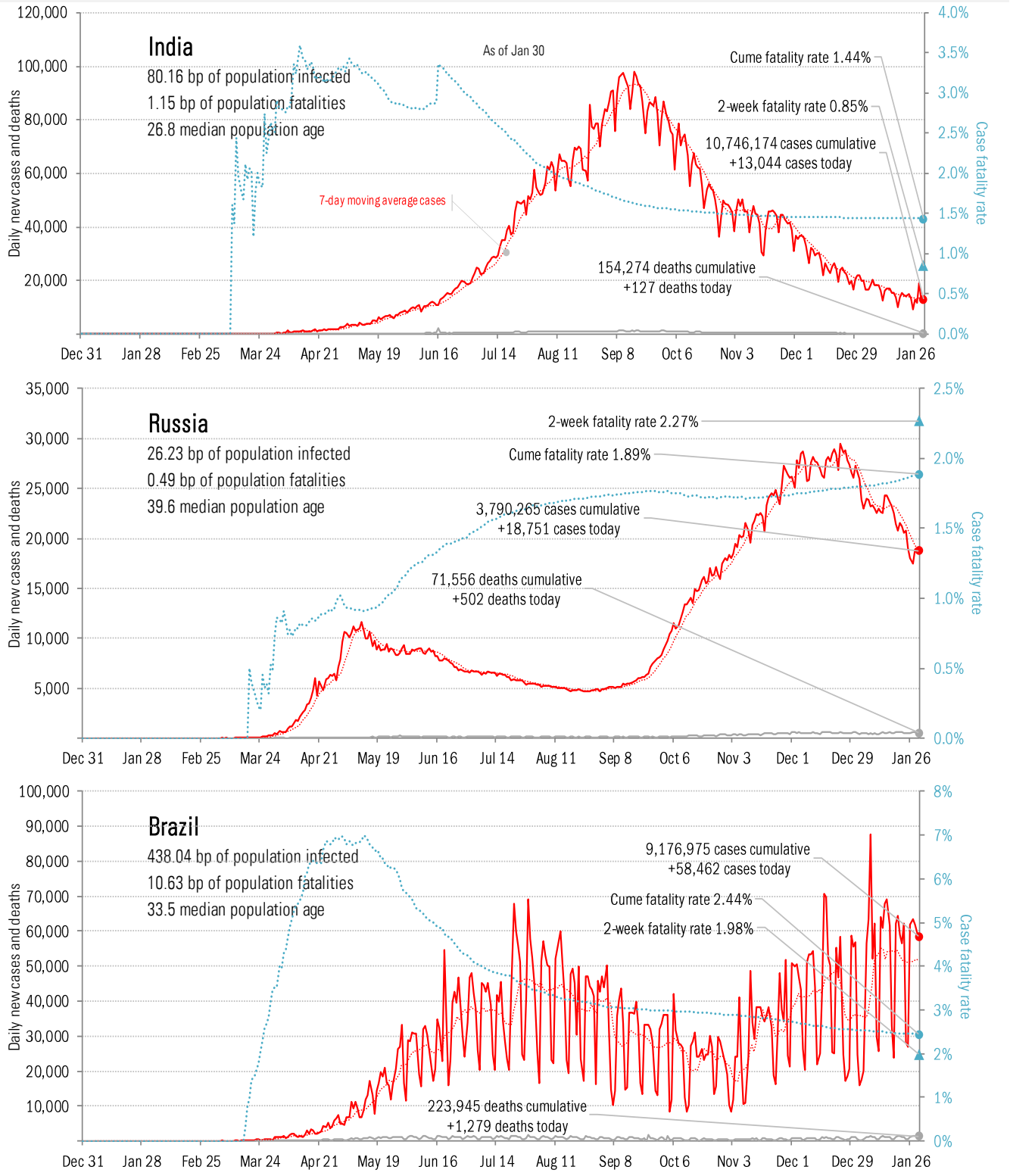
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



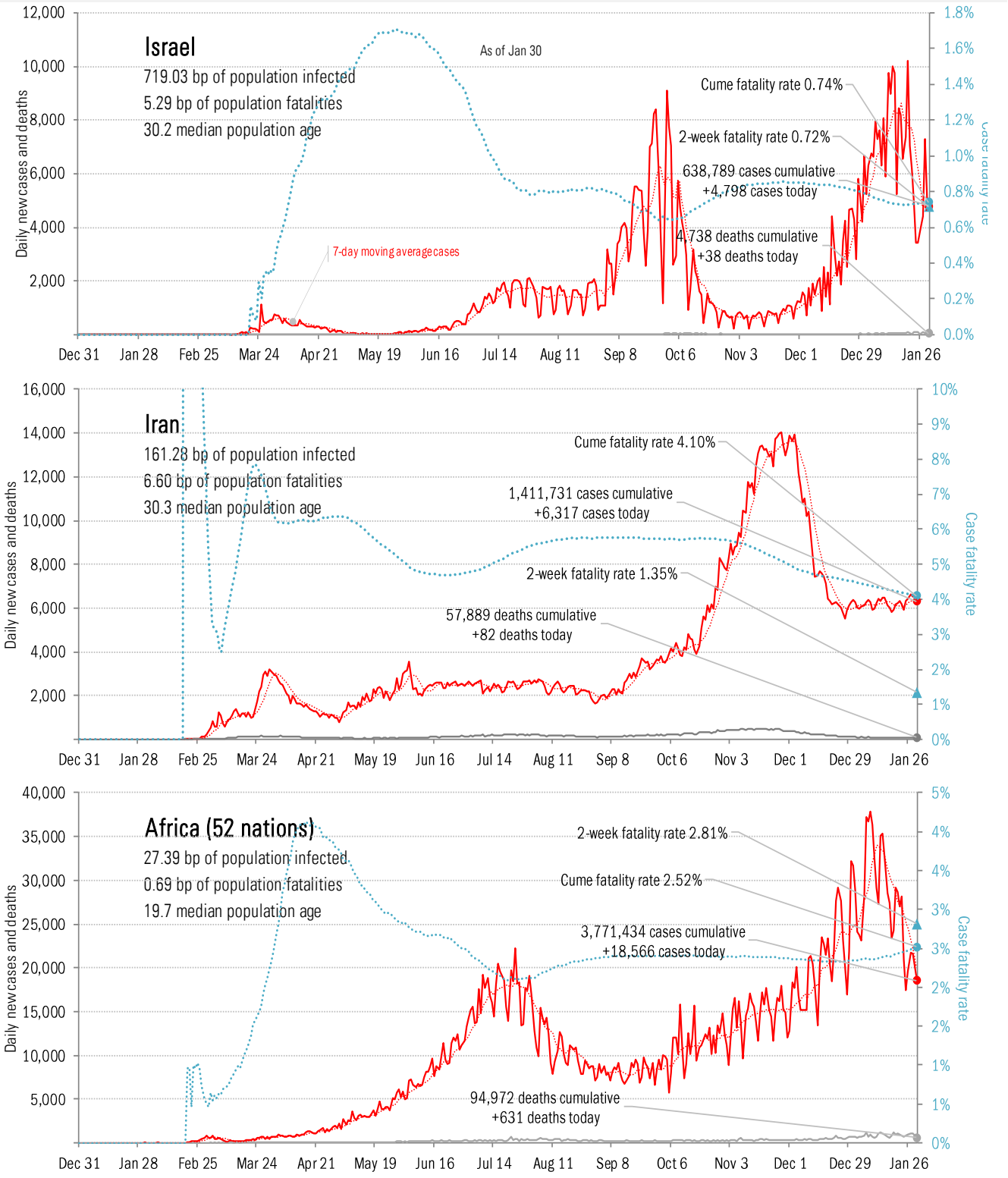
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations