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

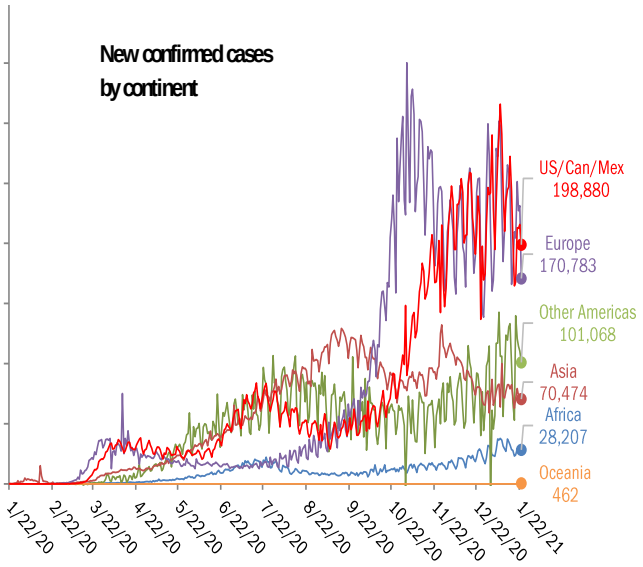
Data Insights: Covid-2019 Monitor

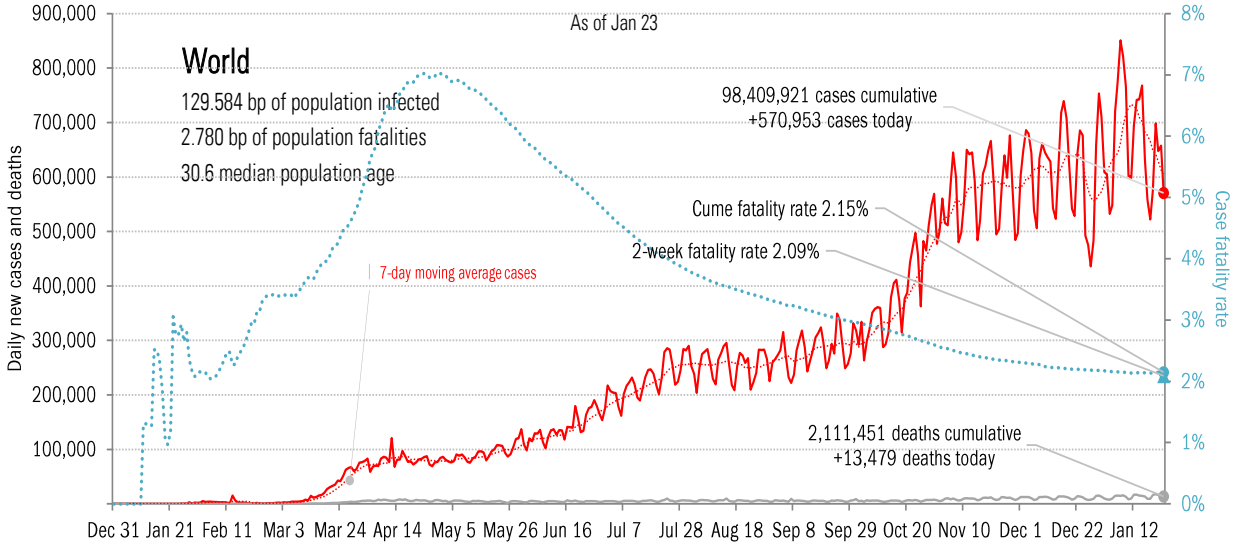
Sunday, January 24, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+173,729	United States	+3,577
Brazil	+62,334	Mexico	+1,470
United Kingdom	+33,652	United Kingdom	+1,352
France	+23,924	Brazil	+1,202
Russia	+20,585	Russia	+543
Mexico	+20,057	South Africa	+498
Colombia	+15,551	Italy	+488
Portugal	+15,333	Colombia	+396
India	+14,849	Poland	+345
Italy	+13,331	Portugal	+274
	+393,345		+10,145
World	+570,953	World	+13,479
Top ten	69%	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

The US scorecard

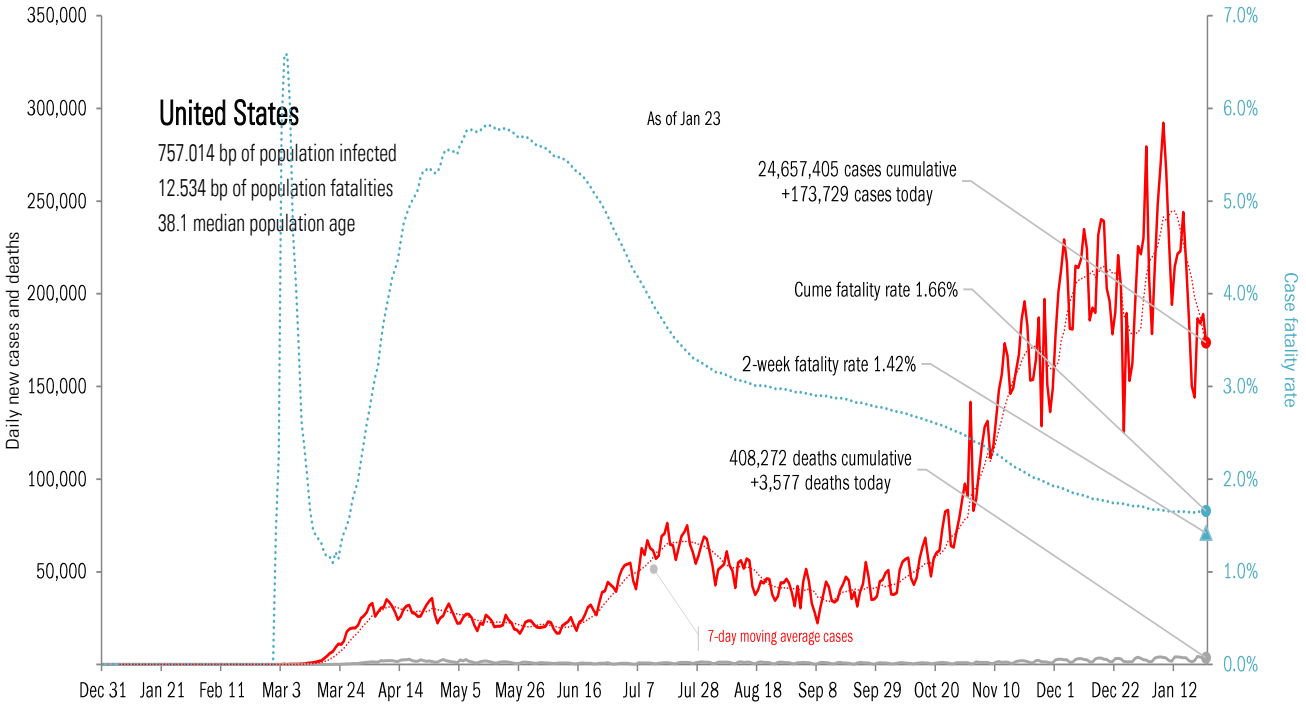
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	+22,972	CA	+593	KY	+43	CA	3,085,040	CA	36,361	NY	89,995	RI	101%	AL	96%
TX	+17,672	TX	+407	AK	+5	TX	2,228,961	TX	34,114	FL	71,037	GA	83%	GA	92%
NY	+13,786	MI	+230	MT	+3	FL	1,609,953	NY	33,907	NJ	59,264	SC	83%	CA	90%
FL	+12,104	PA	+205	NM	+3	NY	1,314,267	FL	25,561	AZ	49,963	MA	83%	TN	89%
AZ	+7,316	GA	+186	VT	+3	IL	1,098,527	NJ	20,934	GA	48,270	MD	82%	OK	87%
NC	+7,181	AL	+171	DC	+1	OH	859,841	IL	20,645	OH	44,685	CA	82%	TX	87%
NJ	+7,147	AZ	+169	AS	+0	PA	799,957	PA	20,526	AL	40,514	FL	81%	RI	87%
GA	+6,572	FL	+156	CT	+0	AZ	715,357	MI	15,181	IN	39,396	CT	81%	DE	86%
OH	+5,859	NY	+144	HI	+0	GA	714,322	MA	14,064	MD	30,866	PA	80%	NC	85%
PA	+5,785	NC	+122	KS	+0	NC	712,716	GA	13,246	MN	23,865	MO	80%	FL	85%
	+106,394		+2,383		+58		13,138,941		234,539		497,855				
All states	+173,729		+3,577		-2655	All states	24,657,405		408,272		783,036	All states	75%		78%
Top ten	61%		67%		-2%	Top ten	53%		57%		64%	Median	73%		75%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TX	-4,974	CA	-171	WA	-131	MI	+20,698
KS	-3,241	FL	-121	AL	-80	TX	+12,401
CT	-2,019	WA	-76	FL	-74	TN	+5,139
LA	-1,937	AZ	-60	CO	-45	PA	+4,571
IL	-1,890	NJ	-56	ID	-34	OK	+4,165



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
41.41 million doses distributed	+1.52 million/day
20.54 million doses administered	+1.43 million/day
17.39 million persons with one or more shot	+1.15 million/day
3.03 million persons with two or more shots	+0.27 million/day
2.44 million shots in long-term care	+0.15 million/day

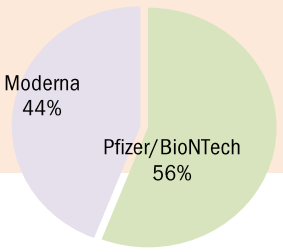
49.6% of distributed doses administered

6.3% of US population vaccinated

5.3% of US population one shot

0.9% of US population two shots

1.7 doses per long-term care resident



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

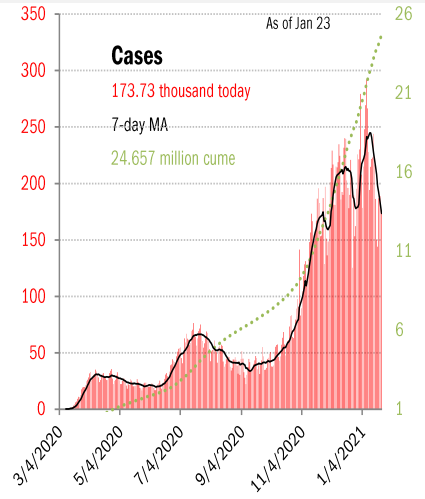
AK										ME
21.3%										13.1%
9.2%										5.2%
1.9%										1.1%
					WI				VT	NH
					10.3%				13.6%	12.0%
					3.8%				6.2%	5.4%
					0.7%				1.3%	0.9%
WA	ID	MT	ND	MN	IL	MI		NY	MA	
10.9%	10.1%	11.2%	11.4%	12.0%	9.5%	11.0%		12.2%	12.4%	
4.3%	3.6%	5.1%	6.7%	4.0%	3.8%	5.0%		5.4%	4.6%	
0.8%	0.7%	1.1%	1.6%	1.0%	1.0%	0.9%		0.7%	0.8%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
11.6%	9.1%	12.0%	11.3%	10.7%	12.5%	10.5%	11.5%	10.7%	13.4%	12.9%
5.2%	3.4%	5.2%	6.4%	4.6%	5.1%	4.3%	4.2%	4.6%	7.0%	4.7%
0.8%	0.7%	0.8%	1.6%	0.7%	1.1%	0.4%	0.9%	0.6%	0.9%	1.1%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
11.9%	10.7%	11.7%	12.3%	10.7%	10.4%	12.9%	12.5%	12.0%	11.9%	
3.7%	5.5%	5.4%	5.1%	3.5%	5.1%	8.1%	4.1%	4.2%	4.7%	
0.8%	0.6%	1.1%	0.9%	1.1%	0.5%	2.0%	0.5%	0.5%	0.9%	
	AZ	NM	KS	AR	TN	NC	SC	DC		
	11.3%	11.8%	11.6%	12.0%	11.7%	11.4%	8.8%	12.8%		
	3.9%	6.2%	4.0%	5.6%	4.8%	4.3%	3.7%	6.3%		
	0.7%	1.4%	0.7%	1.0%	1.1%	0.7%	0.7%	1.7%		
			OK	LA	MS	AL	GA			
			12.5%	10.9%	11.6%	10.6%	11.6%			
			6.3%	5.5%	4.6%	3.6%	5.0%			
			0.9%	0.9%	0.5%	0.5%	0.6%			
HI			TX					FL		PR
13.5%			9.9%					12.2%		10.6%
4.8%			4.9%					5.5%		4.0%
1.2%			0.8%					0.6%		1.0%

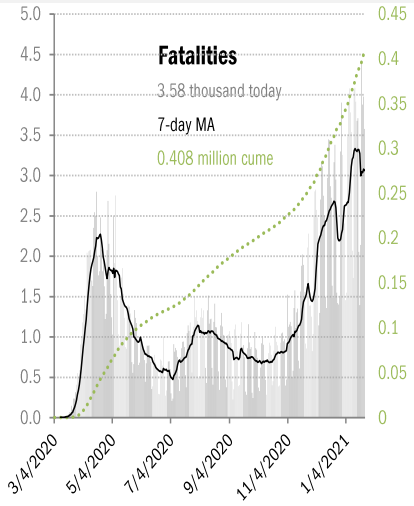
As of Jan 23

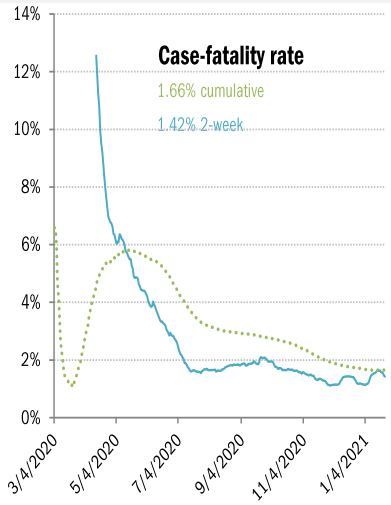
Source: CDC, TrendMacro calculations

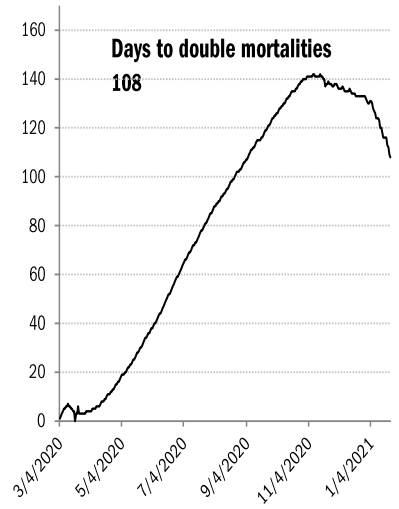
US deep-dive

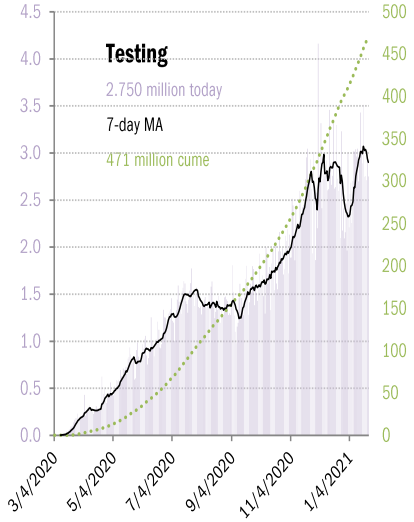
National and state-by-state data do not line up because of different sources

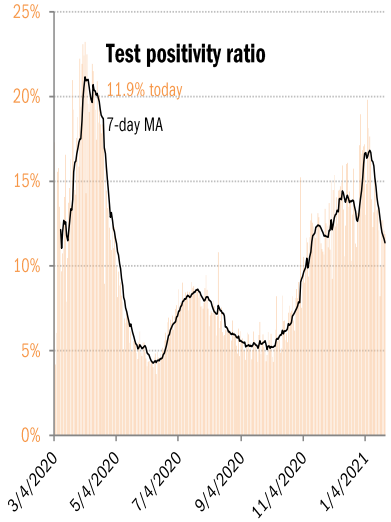


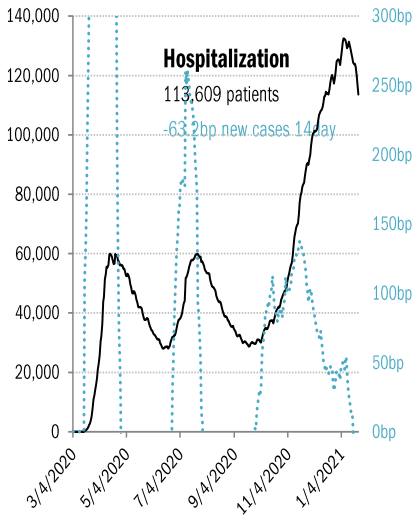


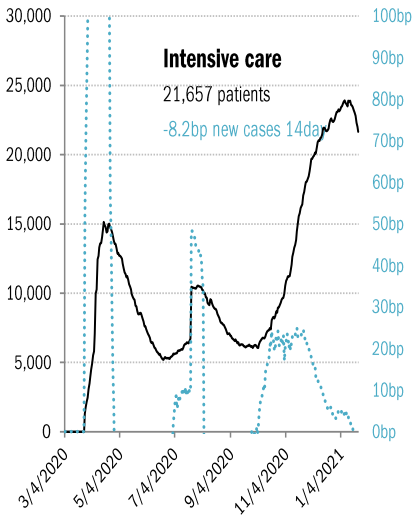


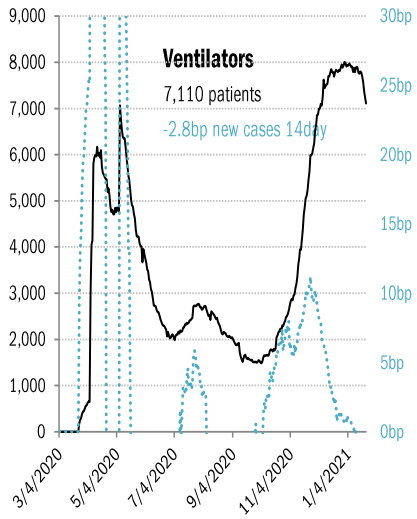






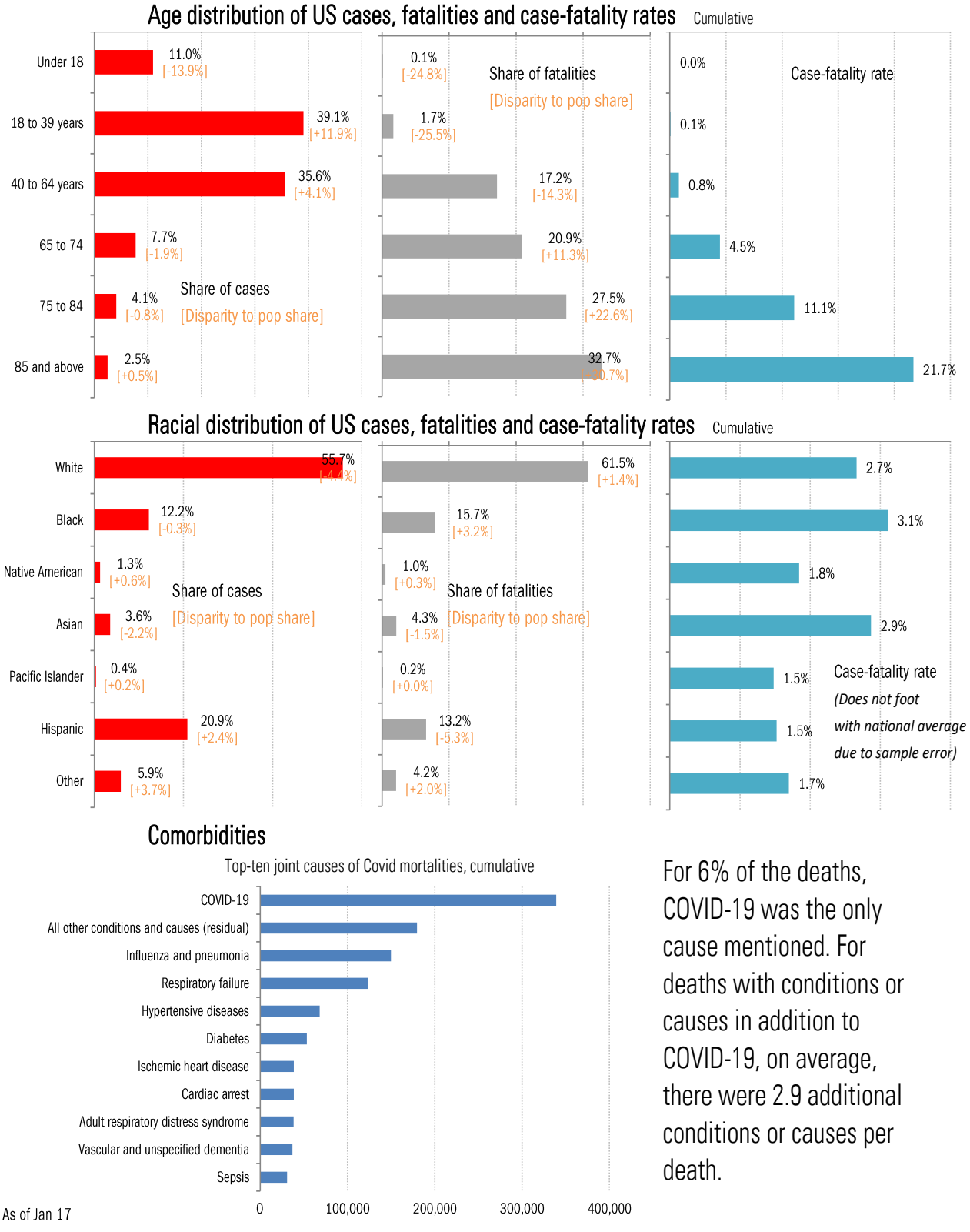






Source: Covid Tracking Project, TrendMacro calculations

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



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

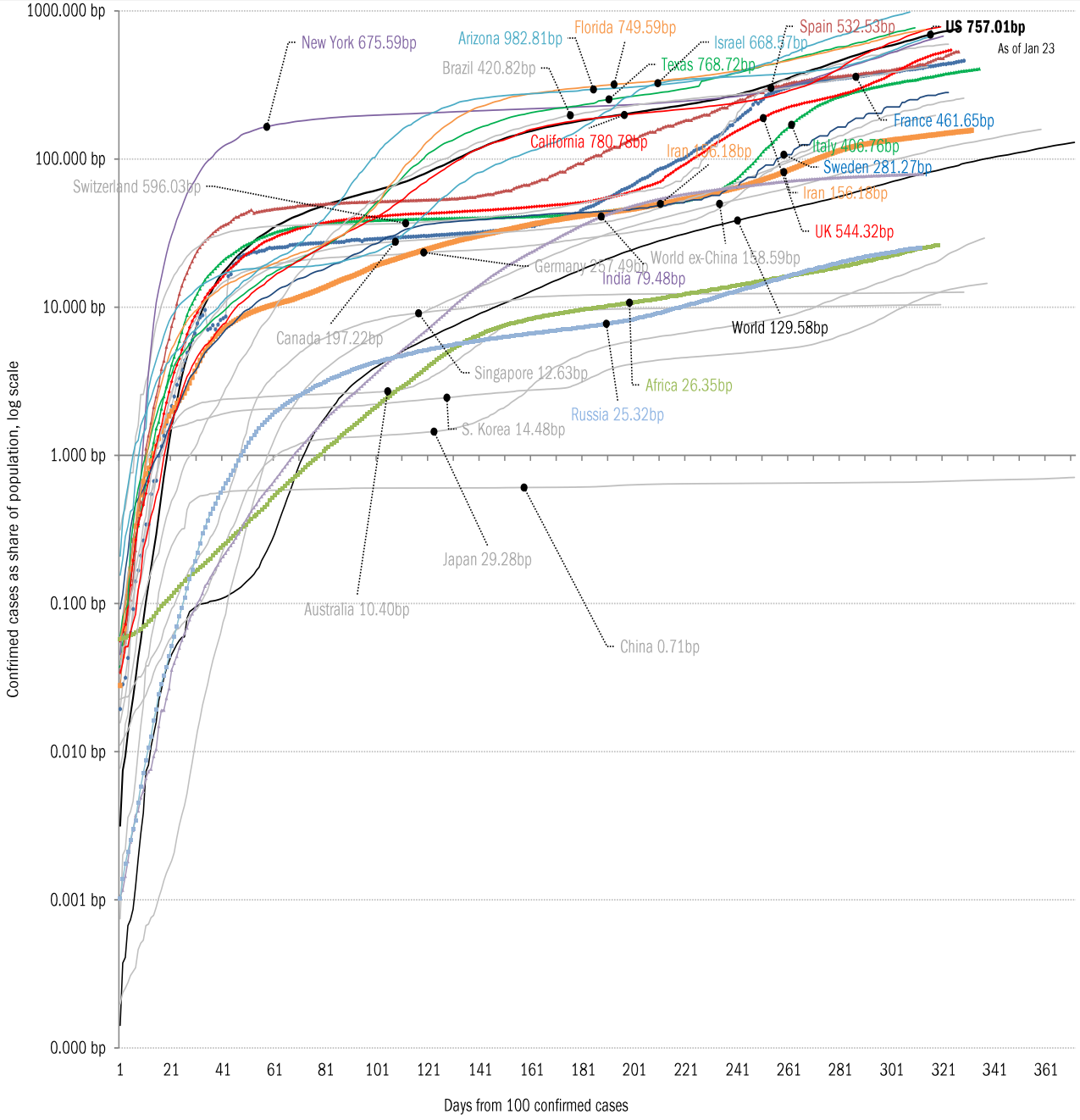
[How Beijing Turned China's Covid-19 Tragedy to Its Advantage]
Li Yuan
New York Times
January 22, 2021

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

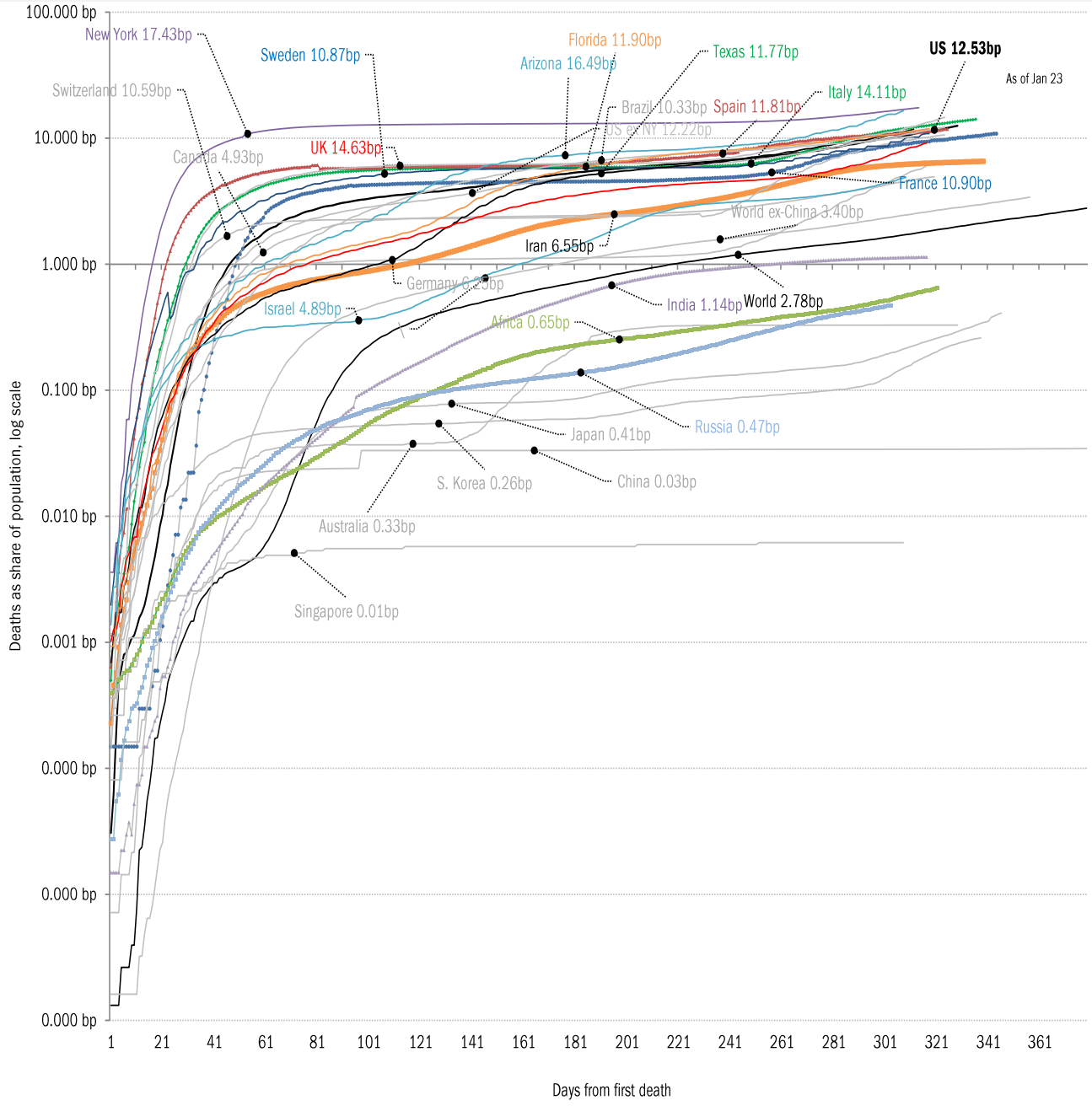
Share of infected population from first day with 100 confirmed cases, log scale



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

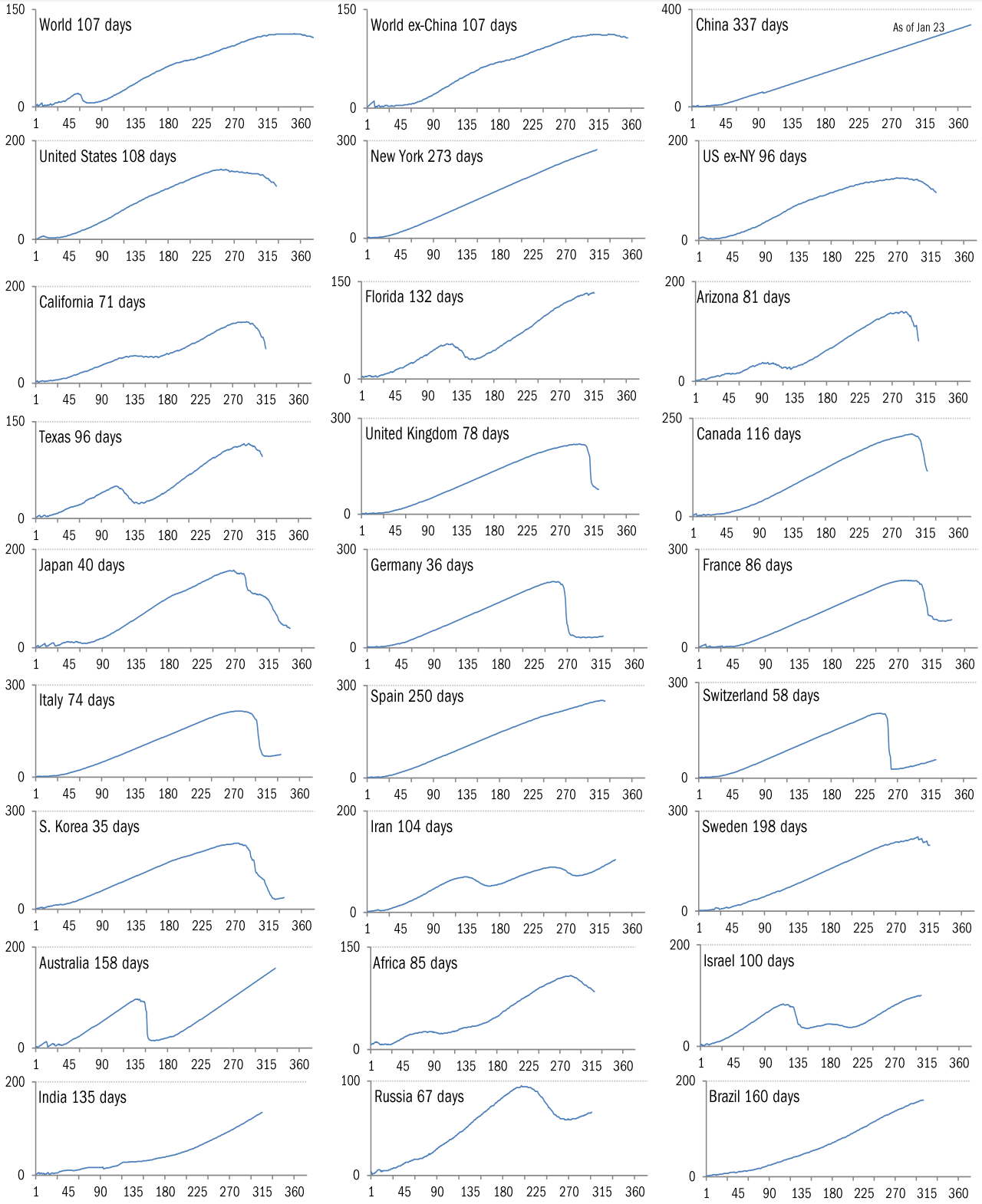


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

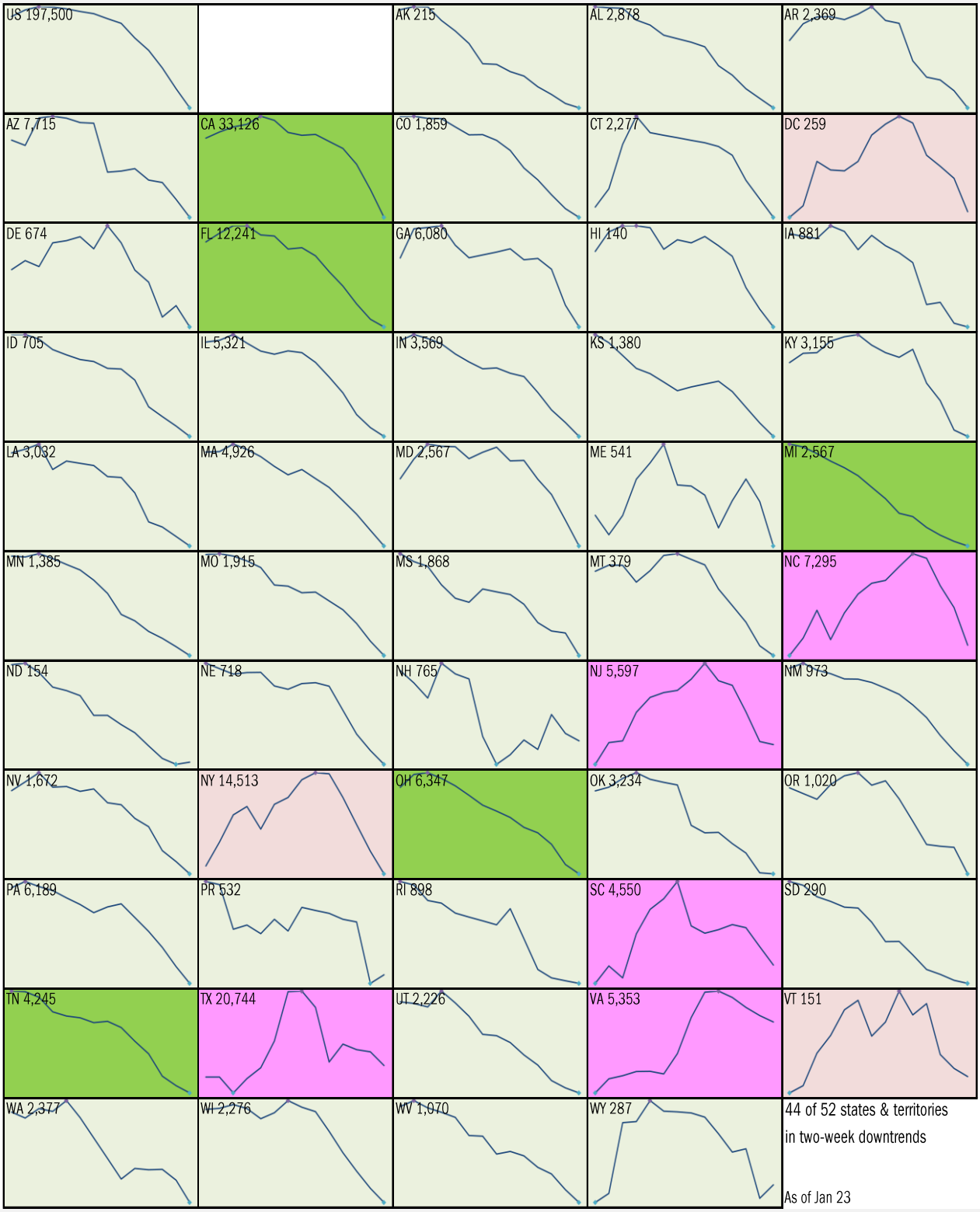


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

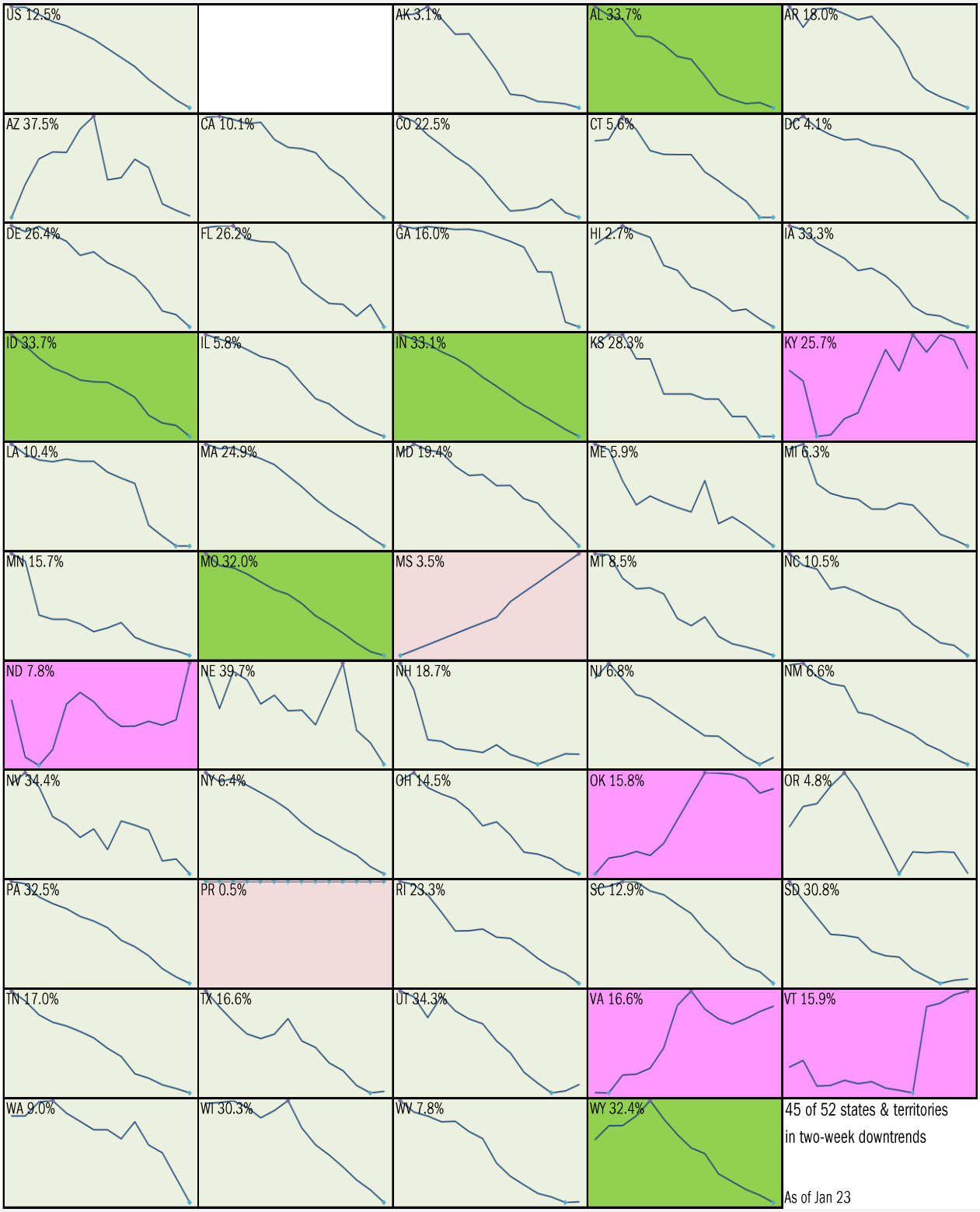


Source: Covid Tracking Project, TrendMacro calculations

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

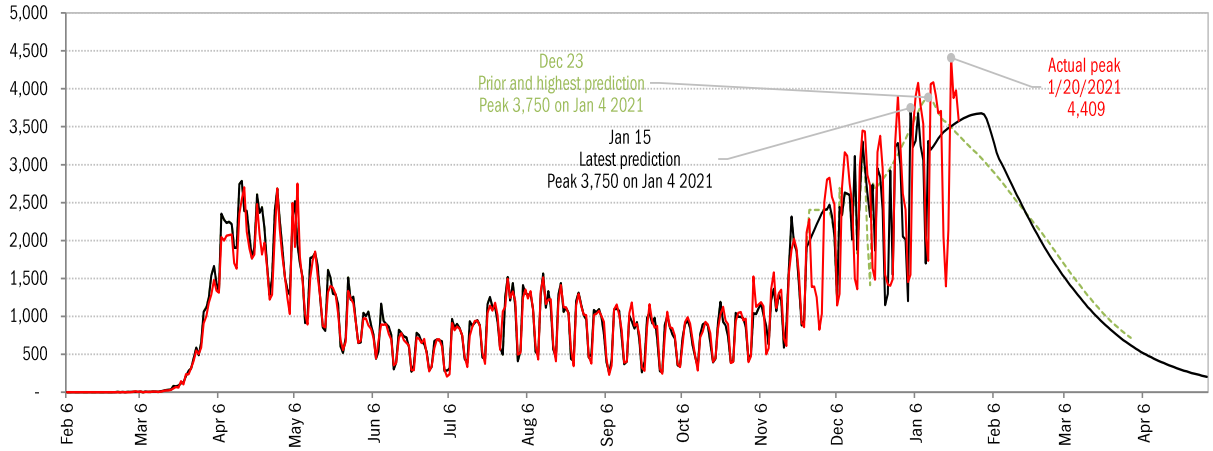


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

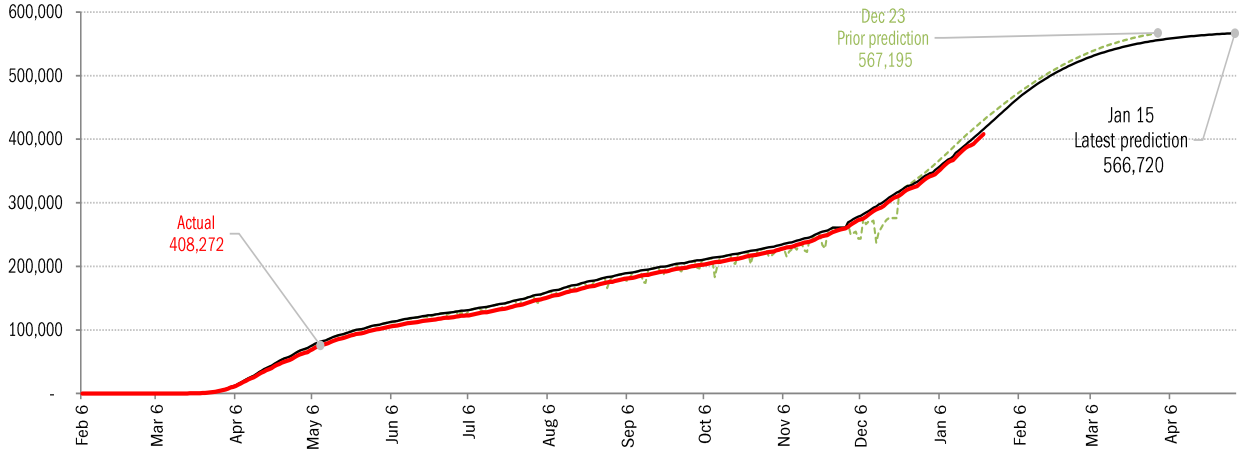
New daily fatalities As of Jan 23

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

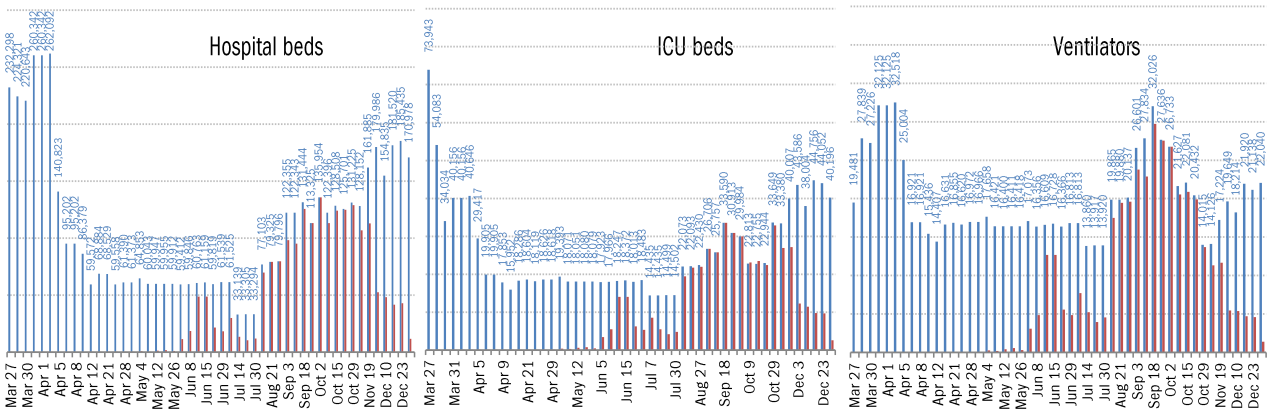


Cumulative fatalities

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

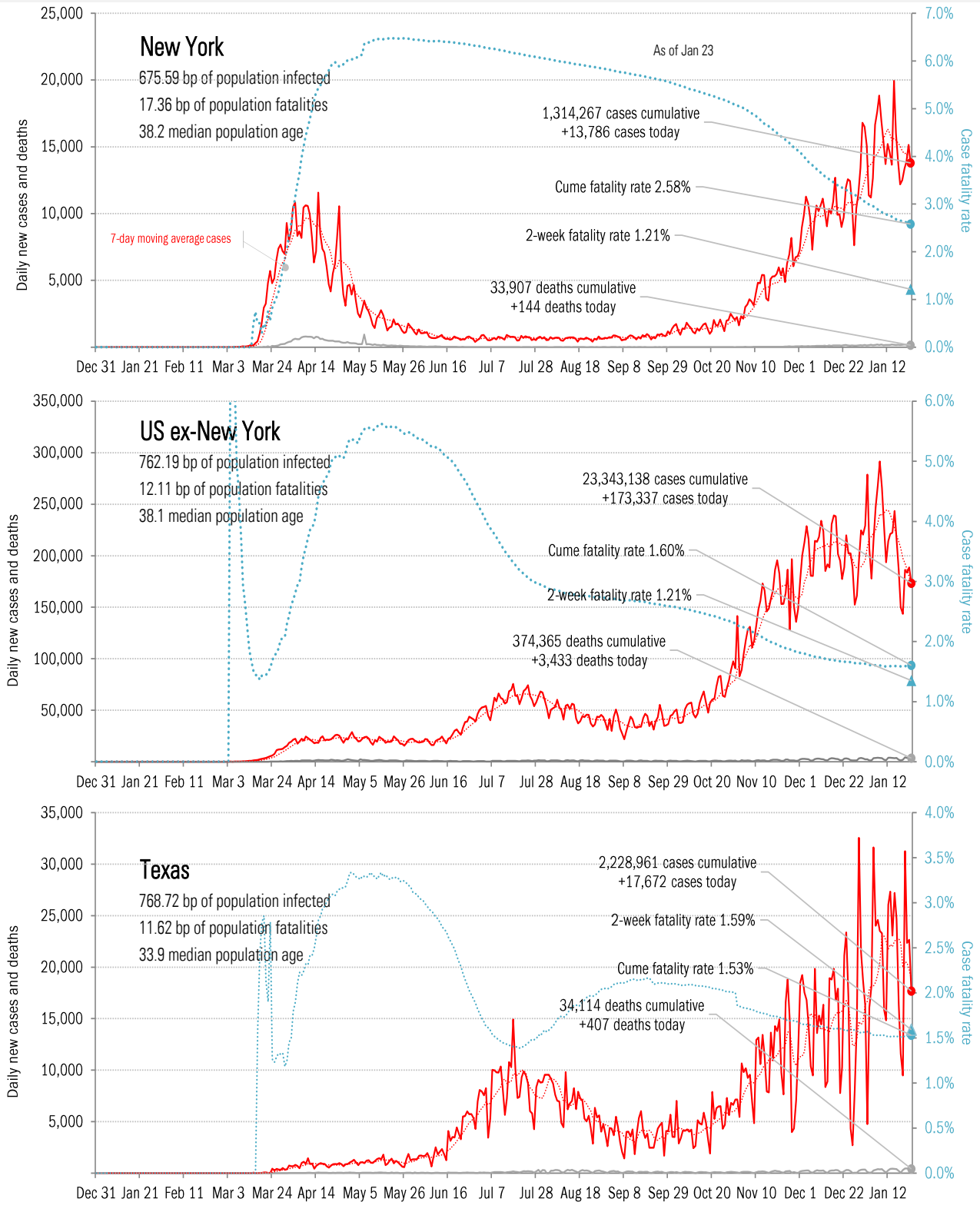


Healthcare system stress, peak and ultimate estimated at each model revision



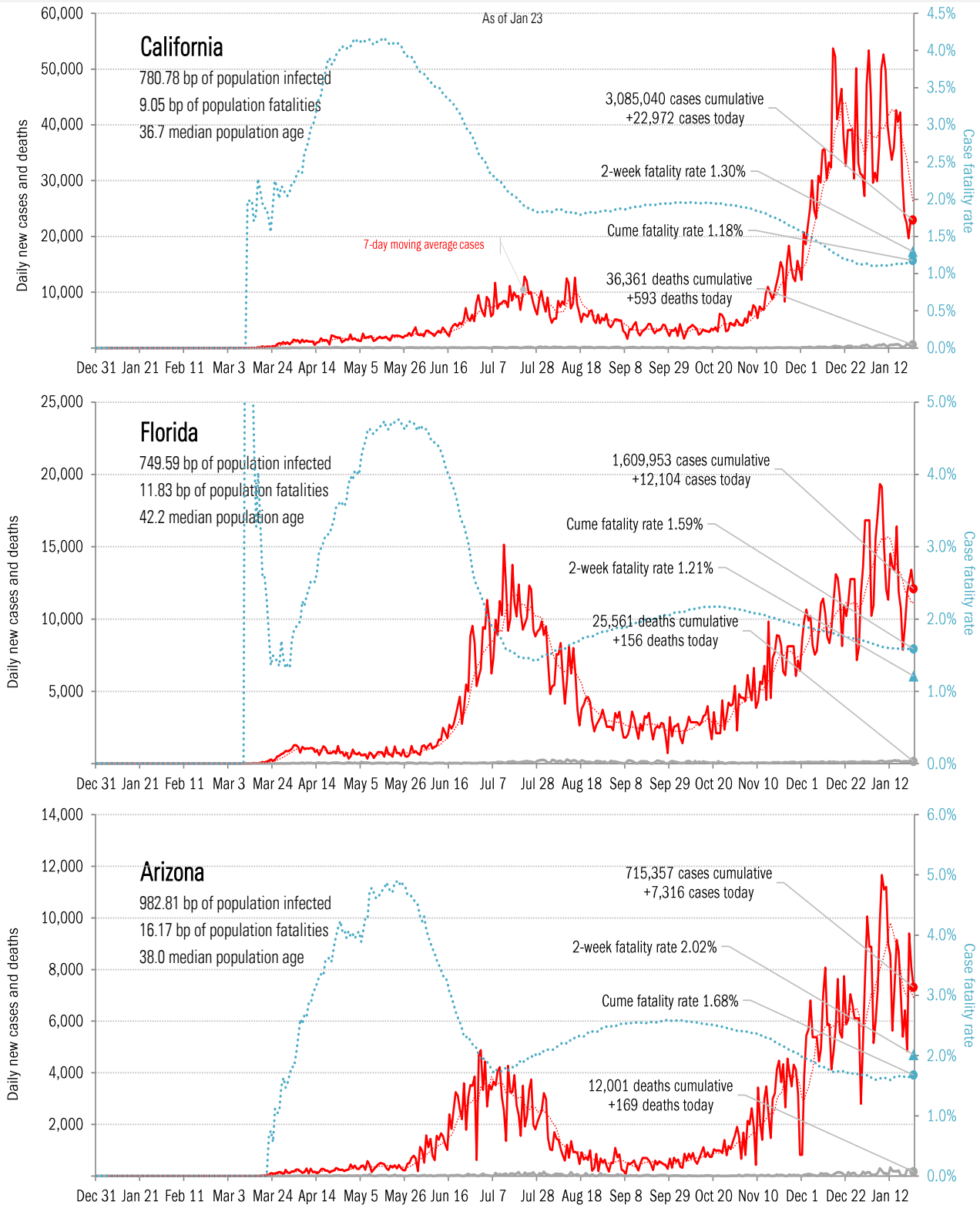
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



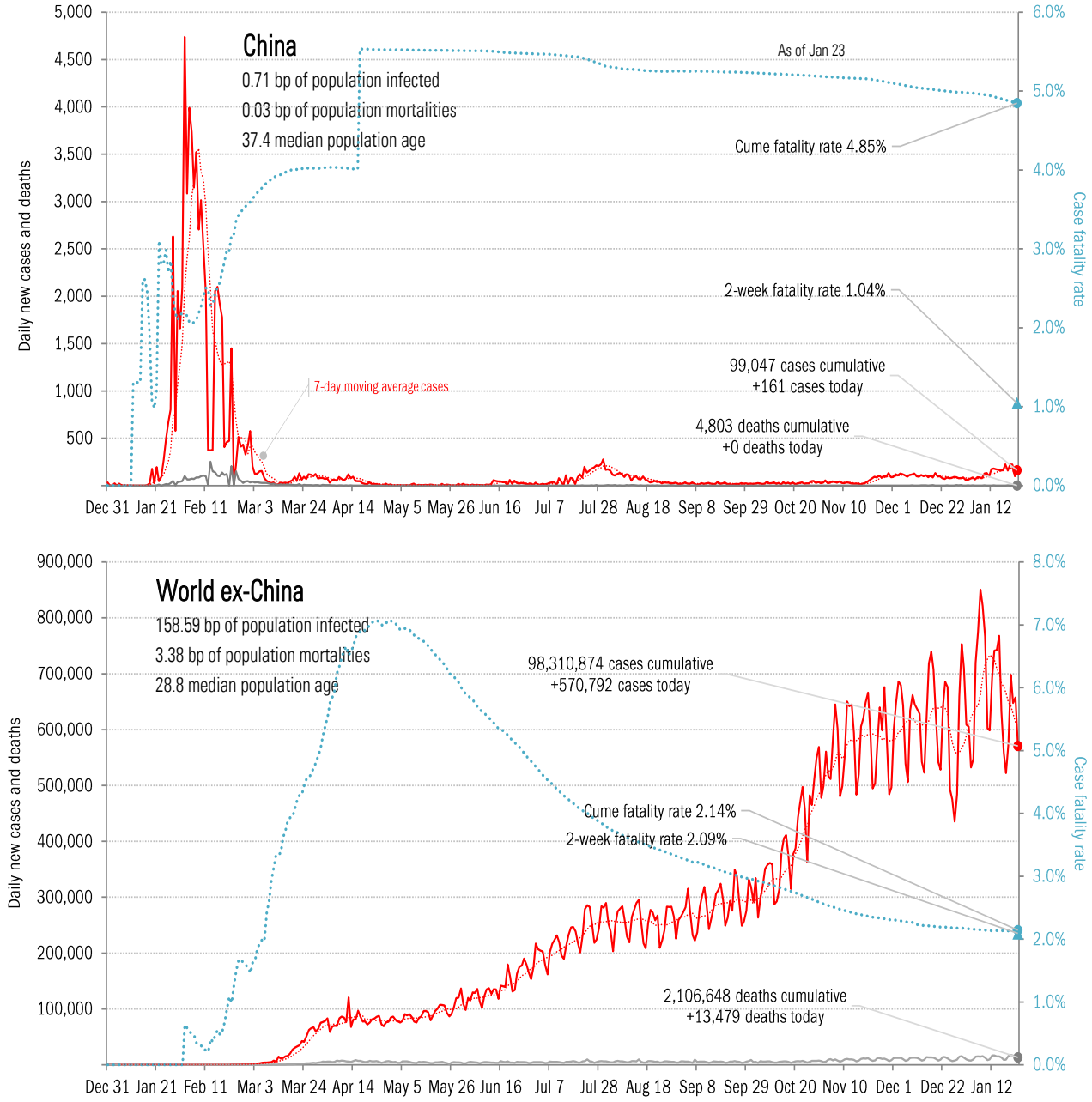
Source: Covid Tracking Project, , TrendMacro calculations

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



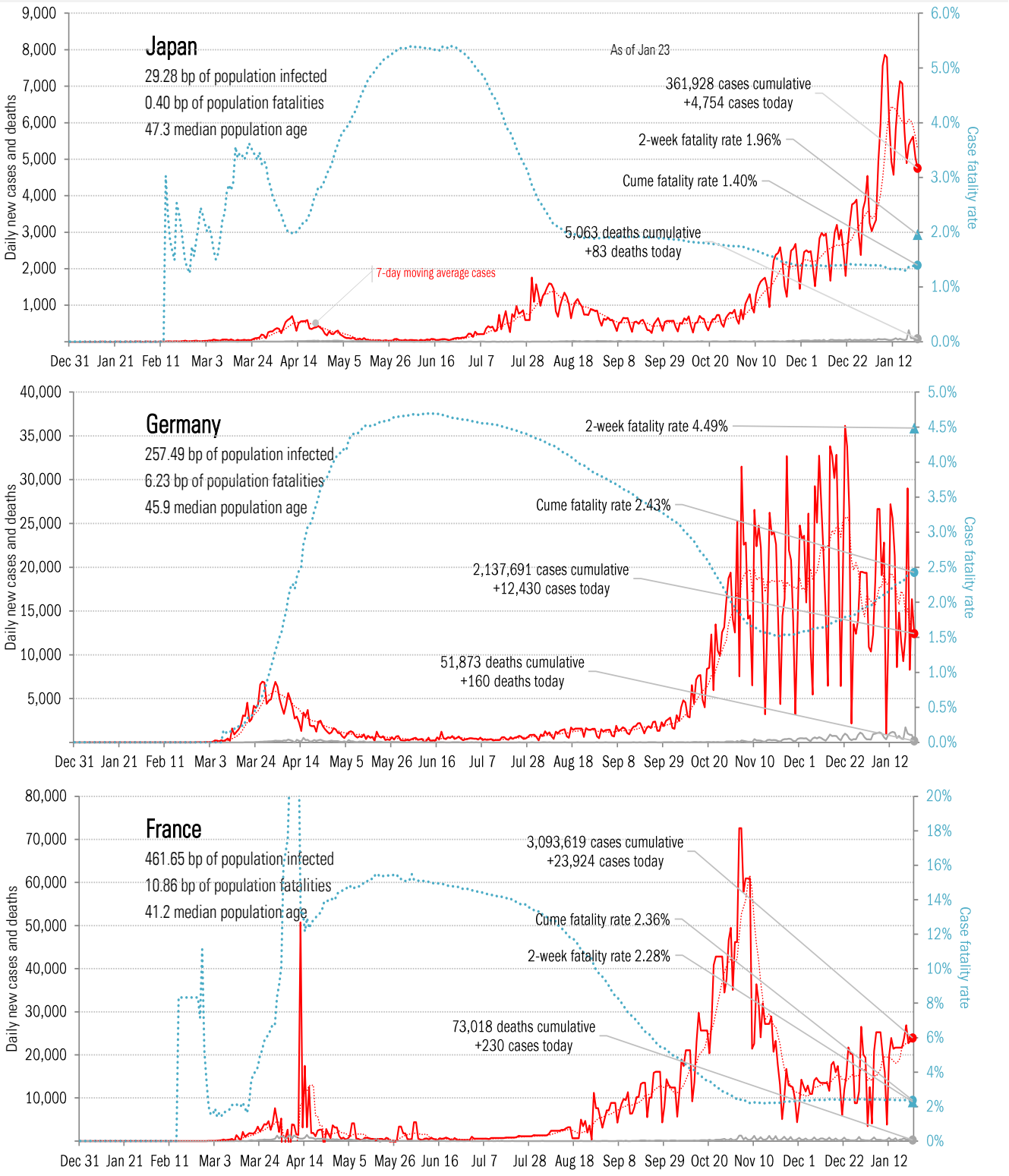
Source: Covid Tracking Project, , TrendMacro calculations

Patient zero… and then everyone else



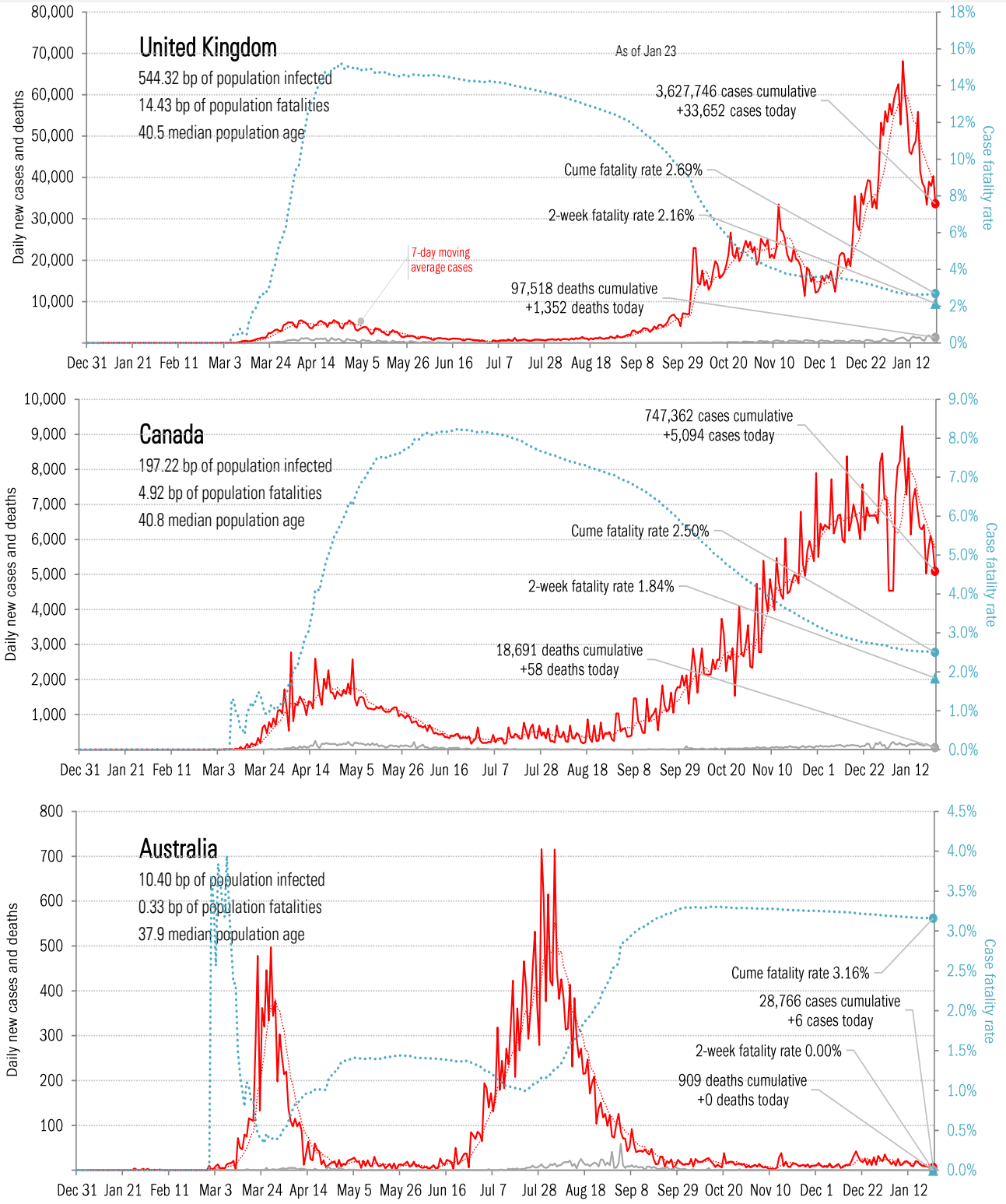
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



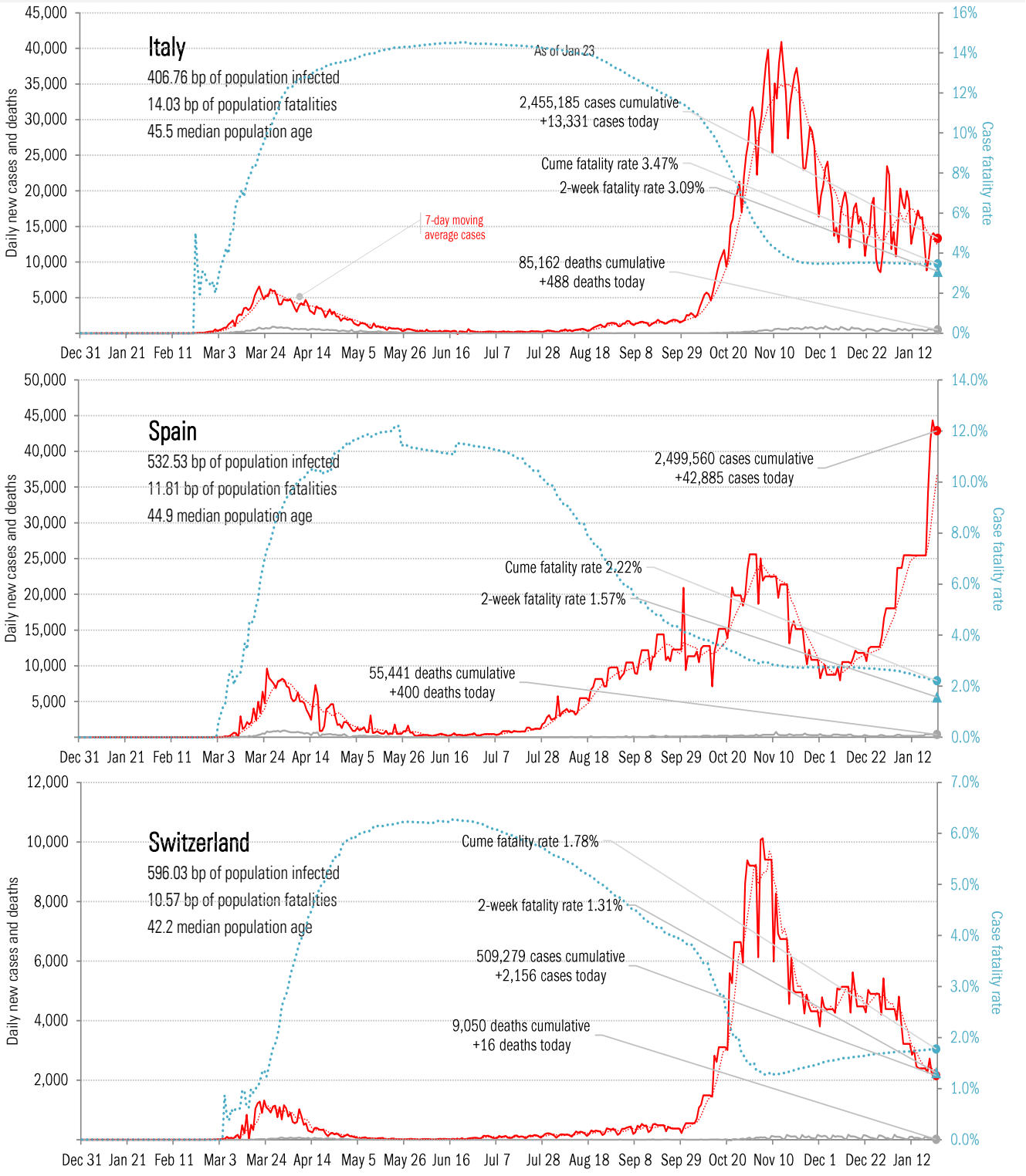
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



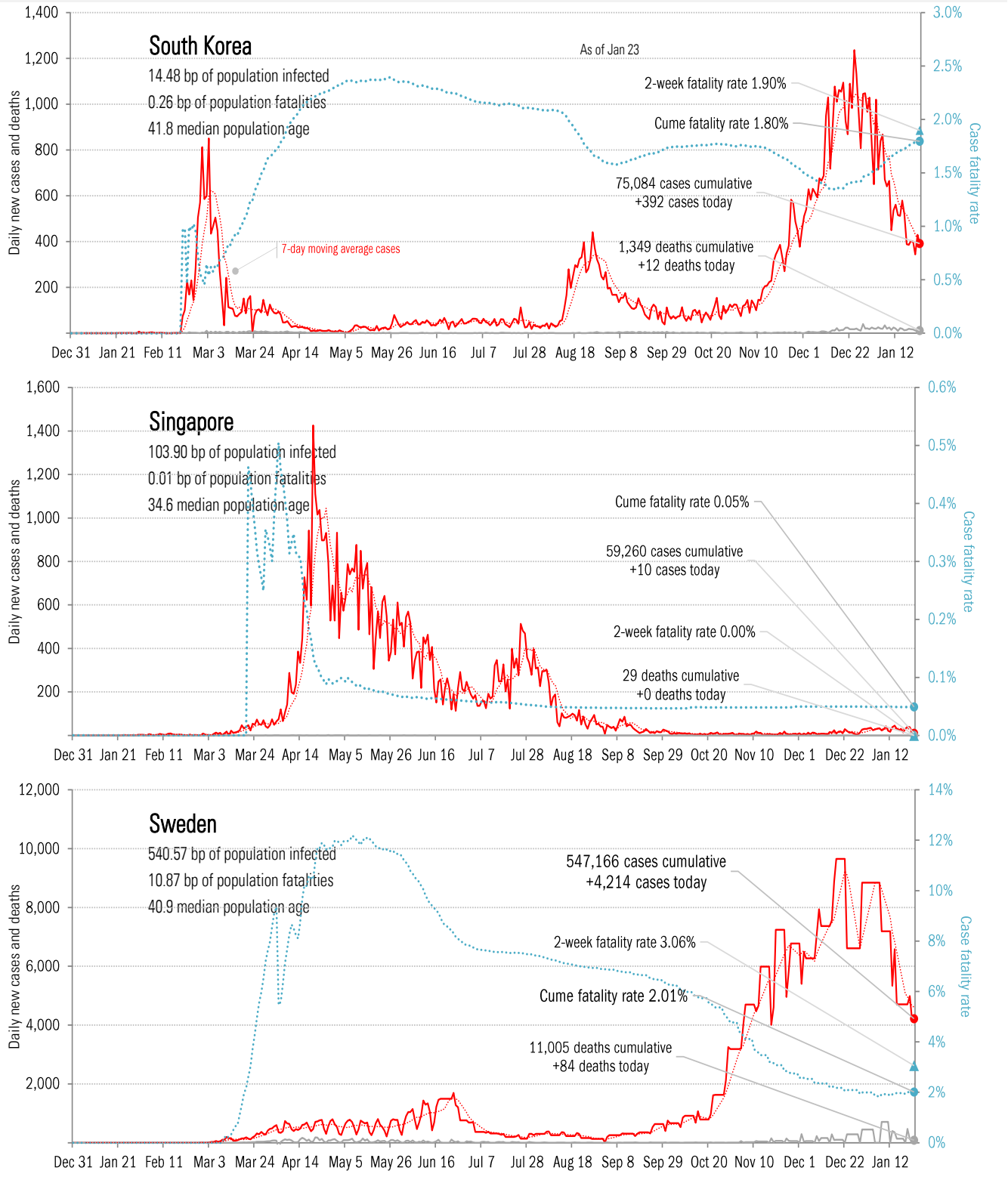
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



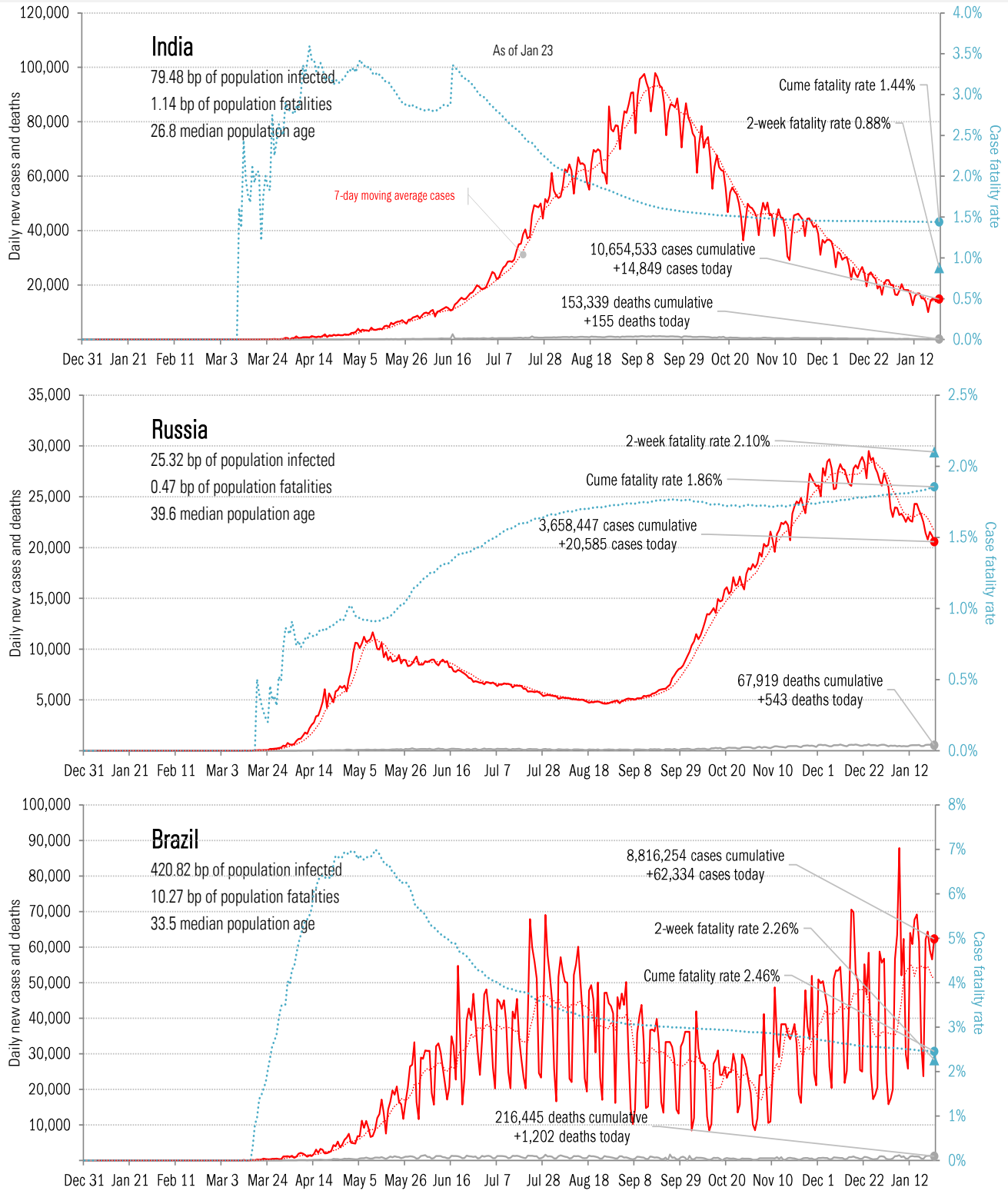
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



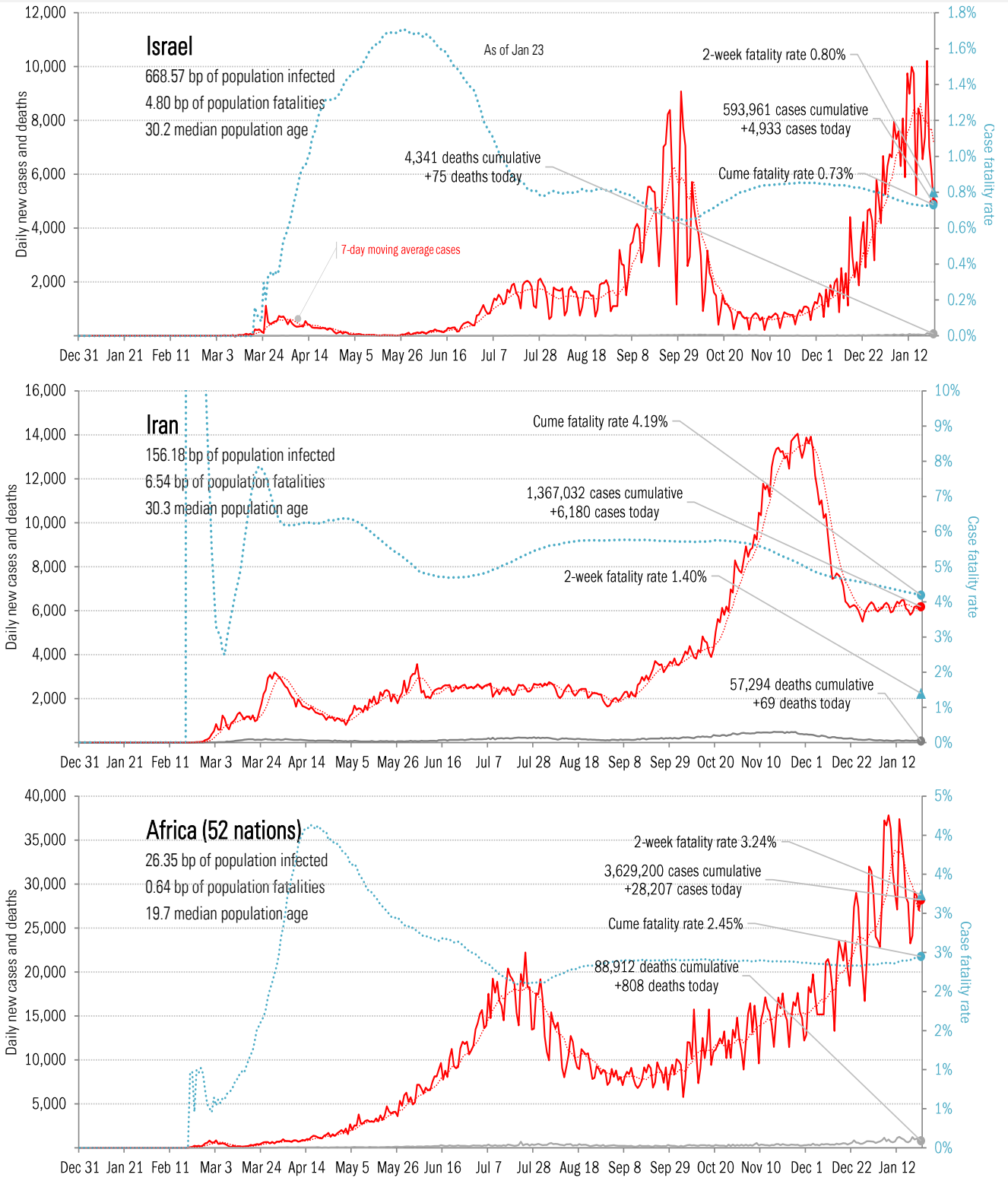
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations