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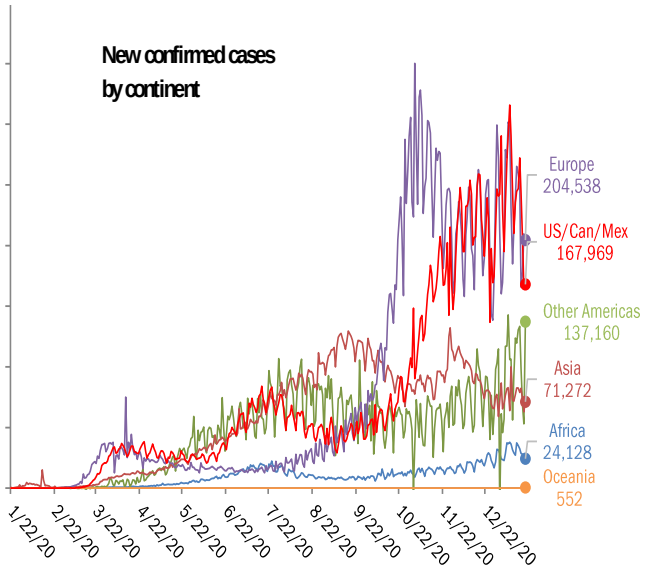
Data Insights: Covid-2019 Monitor

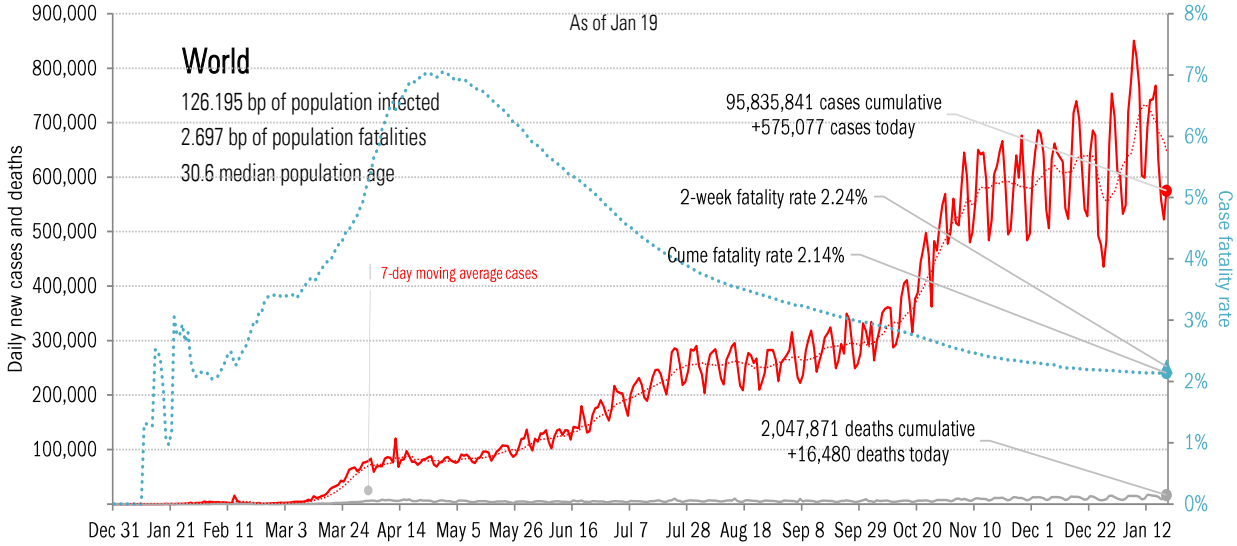
Wednesday, January 20, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+144,047	United States	+2,141
Brazil	+62,094	Germany	+1,734
Spain	+34,291	United Kingdom	+1,612
United Kingdom	+33,454	Mexico	+1,584
France	+23,895	Brazil	+1,192
Russia	+21,442	South Africa	+839
Mexico	+18,894	France	+656
Colombia	+15,939	Italy	+603
India	+13,816	Russia	+573
Germany	+12,233	Spain	+404
	+380,105		+11,338
World	+575,077	World	+16,480
Top ten	66%	Top ten	69%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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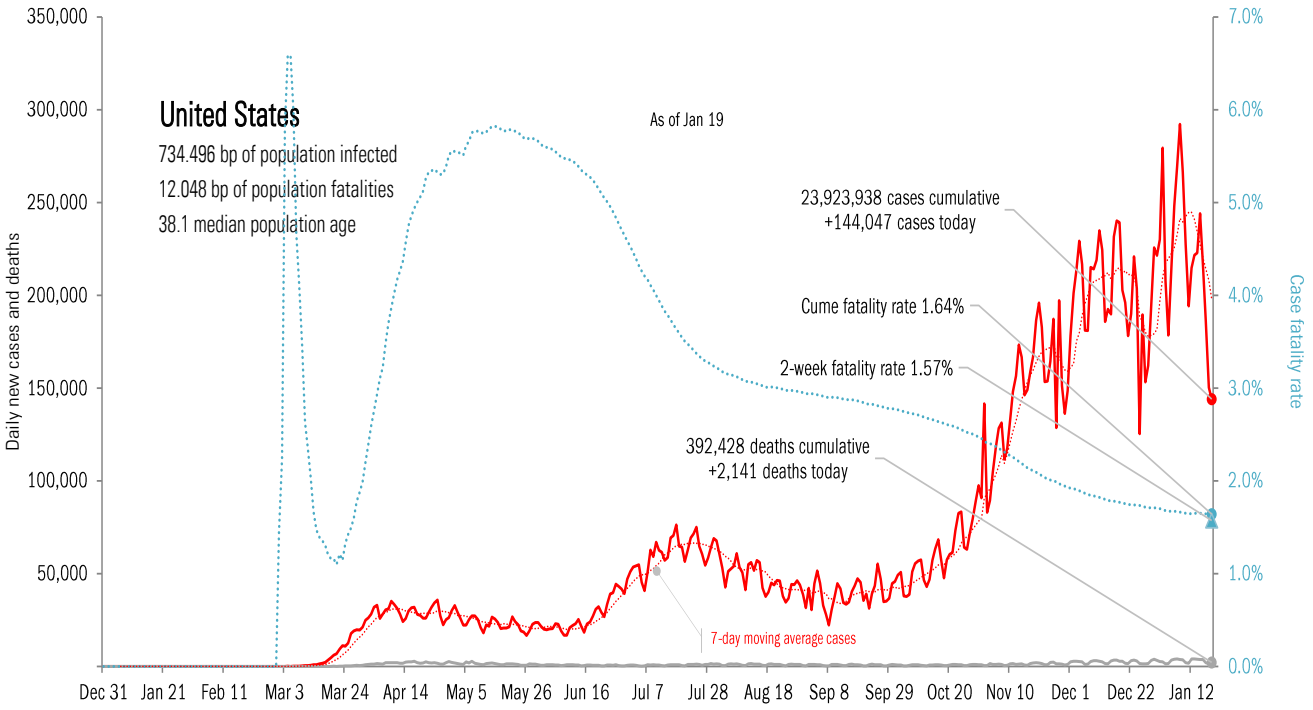
The US scorecard

The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	+23,794	TX	+310	NY	+368	CA	2,996,968	CA	33,739	NY	89,995	RI	90%	AL	96%
NY	+12,512	GA	+222	NJ	+74	TX	2,135,028	NY	33,224	FL	69,483	GA	89%	GA	94%
NC	+9,860	NY	+172	TX	+70	FL	1,560,015	TX	32,394	NJ	54,802	SC	88%	RI	91%
FL	+9,571	FL	+163	KY	+46	NY	1,258,087	FL	24,820	AZ	47,721	MD	86%	OK	91%
TX	+9,476	CA	+146	NM	+32	IL	1,076,532	NJ	20,512	GA	47,006	DC	84%	CA	89%
AZ	+6,417	IN	+126	MS	+31	OH	836,055	IL	20,153	OH	43,605	FL	83%	NM	89%
PA	+5,341	PA	+77	AZ	+28	PA	777,186	PA	19,467	AL	39,504	CA	81%	TN	89%
OH	+4,989	LA	+71	CT	+27	TN	689,808	MI	14,735	IN	38,695	PA	81%	TX	88%
GA	+4,913	VA	+59	MD	+25	GA	689,676	MA	13,749	MD	30,157	AZ	81%	MS	87%
NJ	+4,628	NC	+56	VA	+22	AZ	685,699	GA	12,582	MN	23,517	MA	81%	SC	87%
	+91,501		+1,402		+723		12,705,054		225,375		484,485				
All states	+144,047		+2,141		-28	All states	23,923,938		392,428		762,901	All states	76%		80%
Top ten	64%		65%		-2582%	Top ten	53%		57%		64%	Median	73%		78%
										Some states not reporting				*Not reported daily*	

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CA	-6,905	CT	-64	OH	-201	NC	+58,098
CT	-4,609	CA	-55	AL	-156	TX	+13,737
WA	-3,969	IL	-33	FL	-108	OH	+10,833
KS	-3,688	OH	-26	MO	-104	TN	+9,586
VA	-2,719	KS	-23	IN	-92	OK	+4,965



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

Rolling out the vaccines in the US

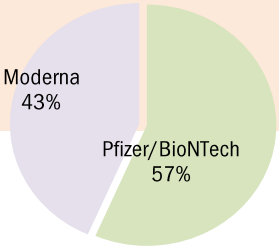
US overall	Over last 4 days
31.16 million doses distributed	+0.00 million/day
15.71 million doses administered	-+0.86 million/day
13.60 million persons with one or more shot	-+0.75 million/day
2.02 million persons with two or more shots	-+0.10 million/day
1.75 million shots in long-term care	-+0.09 million/day

50.4% of distributed doses administered

4.8% of US population vaccinated

4.1% of US population one shot

0.6% of US population two shots



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

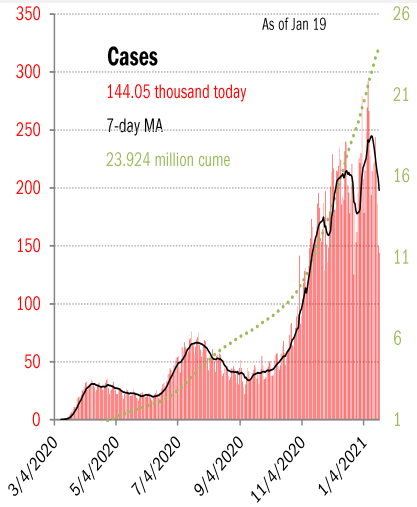
AK										ME
20.6%										10.2%
7.6%										4.7%
1.5%										0.7%
					WI				VT	NH
					7.5%				11.9%	9.4%
					3.2%				5.5%	4.7%
					0.4%				1.0%	0.5%
WA	ID	MT	ND	MN	IL	MI		NY	MA	
9.1%	9.0%	9.2%	9.0%	9.2%	8.0%	7.7%		9.7%	9.7%	
3.5%	3.0%	4.4%	6.2%	3.7%	3.3%	4.2%		4.5%	4.0%	
0.6%	0.6%	0.8%	1.1%	0.7%	0.8%	0.6%		0.5%	0.6%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
7.9%	6.9%	10.2%	10.6%	8.5%	9.5%	8.3%	8.4%	7.4%	9.2%	10.2%
4.6%	2.8%	4.3%	5.8%	4.1%	4.2%	3.8%	3.6%	4.0%	5.7%	4.2%
0.6%	0.5%	0.6%	1.1%	0.4%	0.8%	0.2%	0.6%	0.5%	0.6%	0.9%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
9.0%	8.4%	9.2%	10.9%	8.6%	7.6%	11.5%	10.0%	9.3%	9.4%	
3.0%	4.5%	4.8%	4.6%	3.1%	4.5%	7.2%	3.4%	3.7%	3.7%	
0.7%	0.5%	0.9%	0.7%	0.7%	0.3%	1.3%	0.4%	0.4%	0.7%	
	AZ	NM	KS	AR	TN	NC	SC	DC		
	7.9%	9.8%	9.0%	9.9%	9.6%	9.5%	6.8%	9.7%		
	3.2%	5.4%	3.5%	3.9%	4.4%	3.3%	3.0%	5.6%		
	0.4%	1.1%	0.5%	0.7%	0.7%	0.5%	0.6%	1.4%		
			OK	LA	MS	AL	GA			
			10.7%	8.0%	7.8%	9.1%	9.5%			
			5.3%	4.8%	3.5%	2.3%	2.6%			
			0.8%	0.7%	0.3%	0.3%	0.3%			
HI			TX					FL		PR
10.9%			7.3%					9.6%		9.7%
3.7%			4.2%					5.0%		3.4%
0.8%			0.6%					0.5%		0.7%

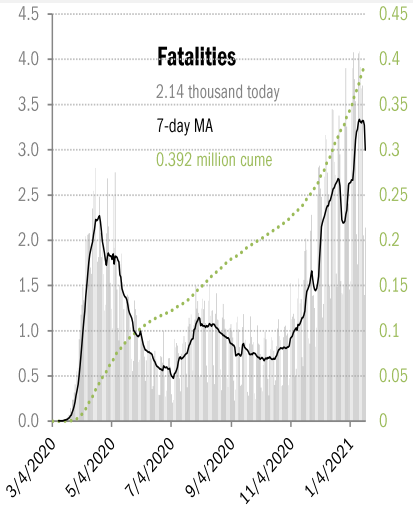
As of Jan 19

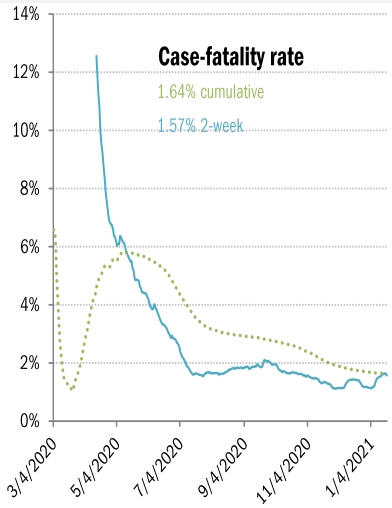
Source: CDC, TrendMacro calculations

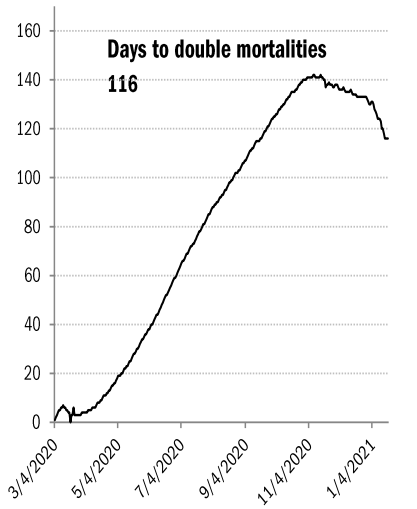
US deep-dive

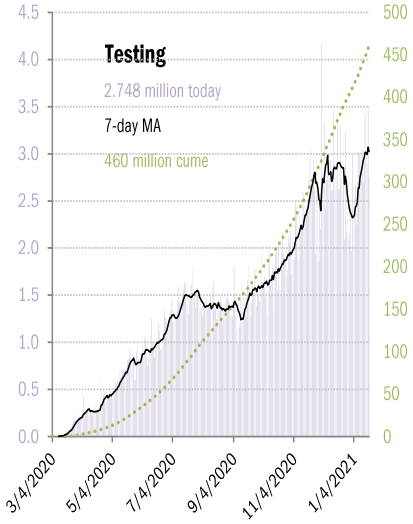
National and state-by-state data do not line up because of different sources

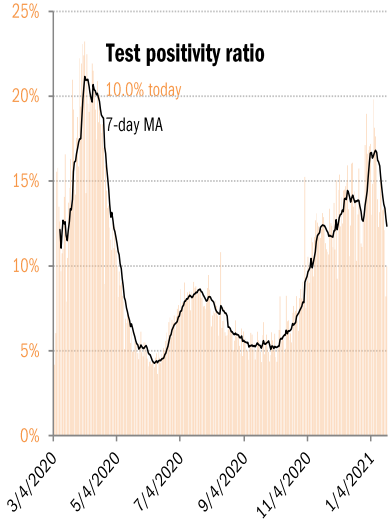


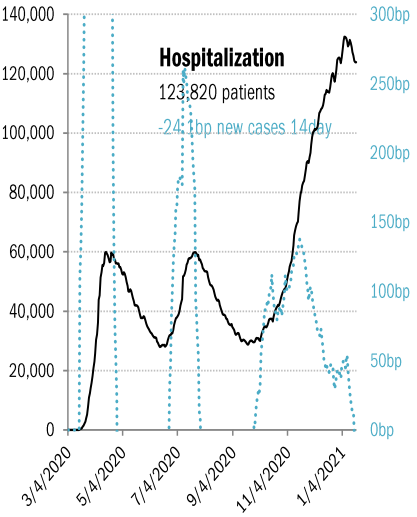


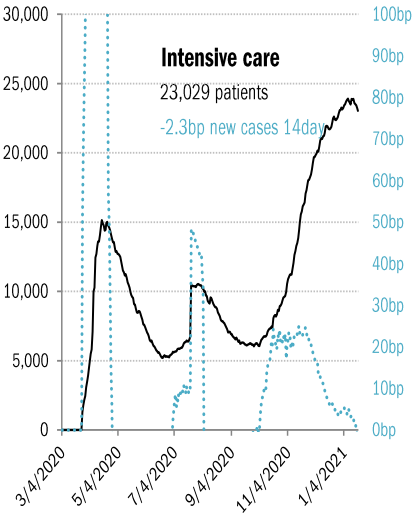


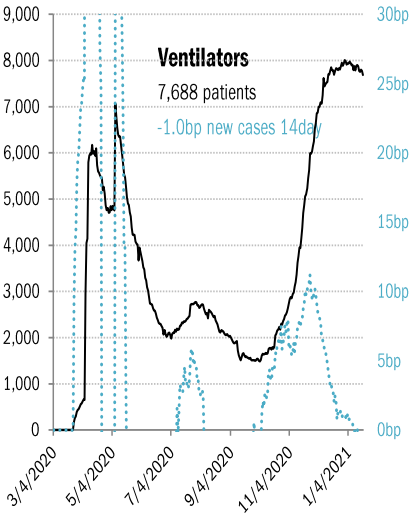






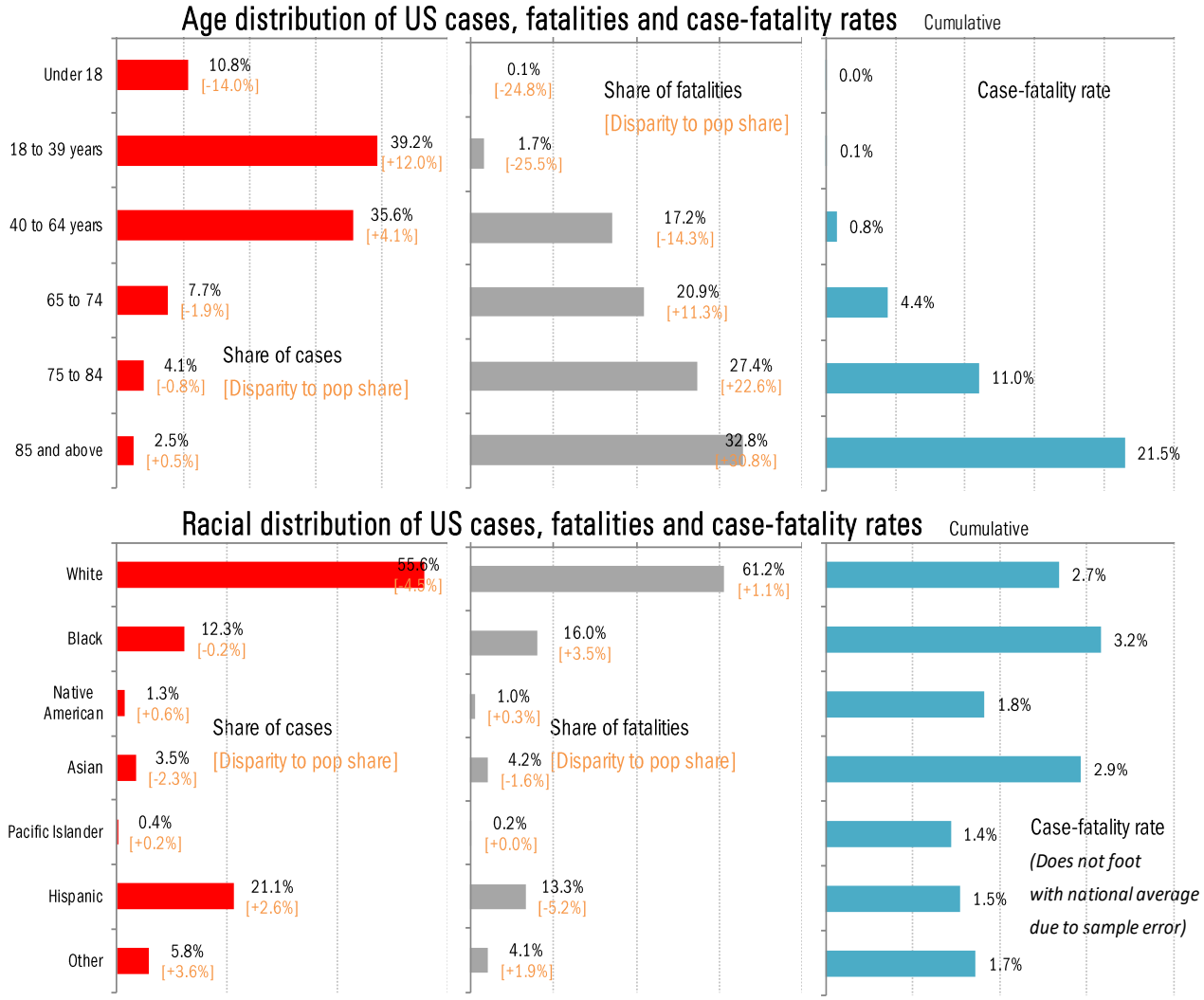




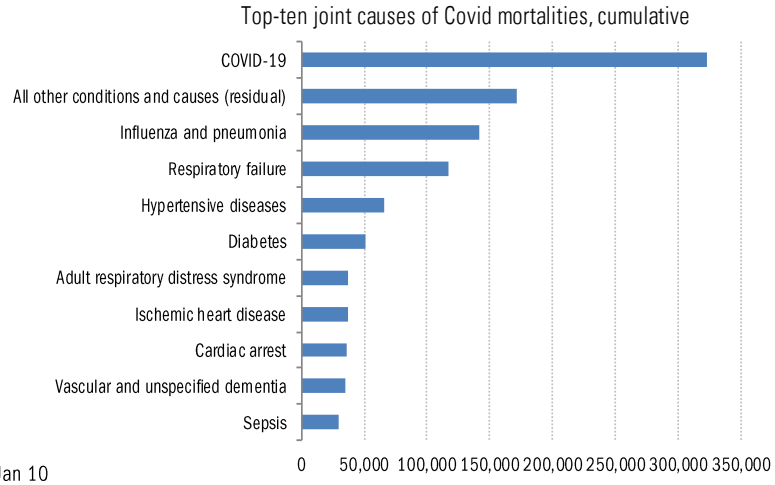


Source: Covid Tracking Project, TrendMacro calculations

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



Comorbidities



As of Jan 10

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

Children's Screen Time Has Soared in the Pandemic, Alarming Parents and Researchers
Matt Richtel
New York Times
January 16, 2021

COVID antibodies increase 6-20 times week after 2nd dose of Pfizer shot, study says
Adir Yanko
Y-net
January 18, 2021

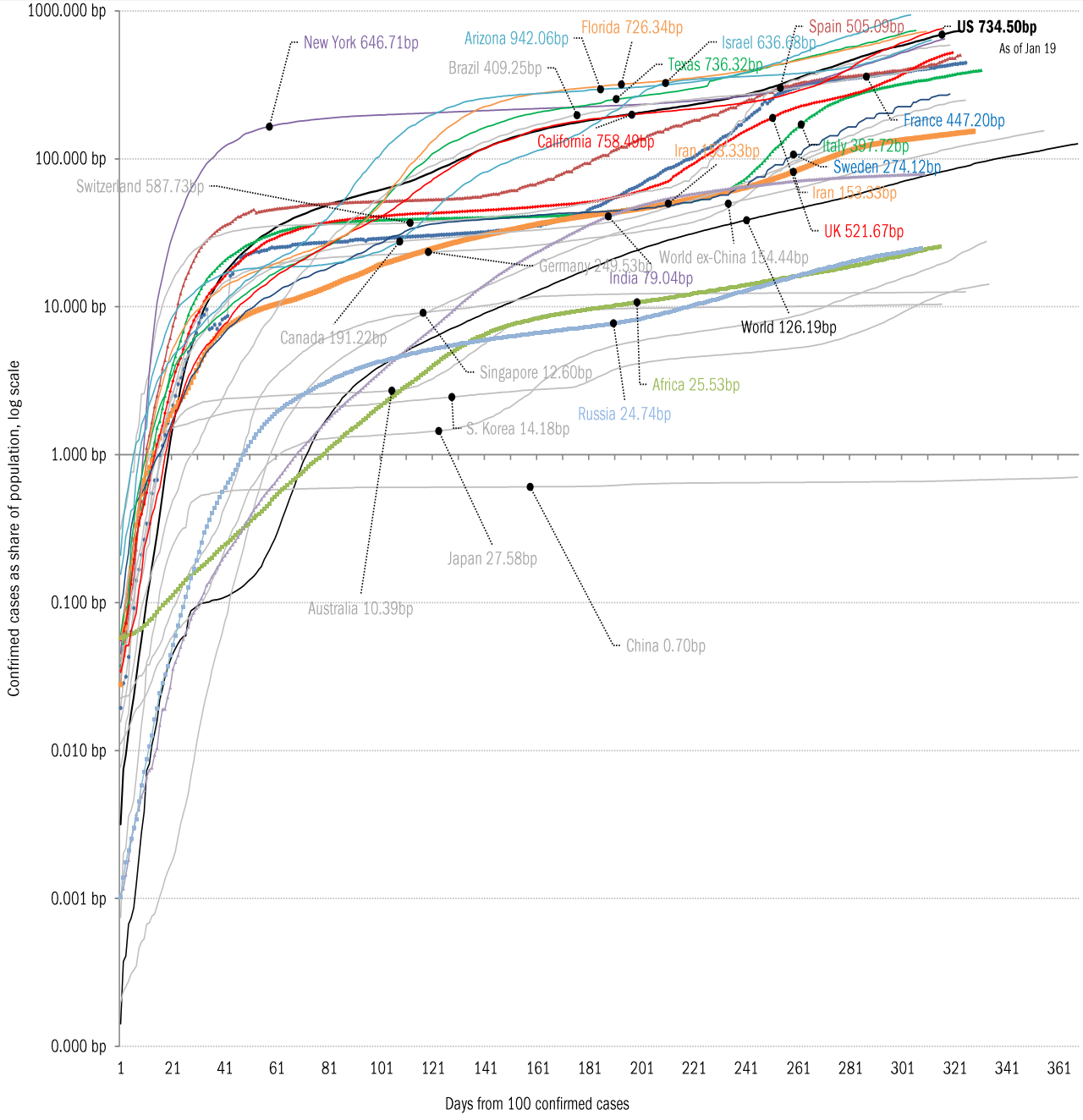
Scientists at Wuhan lab admit being bitten while collecting samples in cave which is home to Covid-infected bats
Daily Mail
January 18, 2021

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

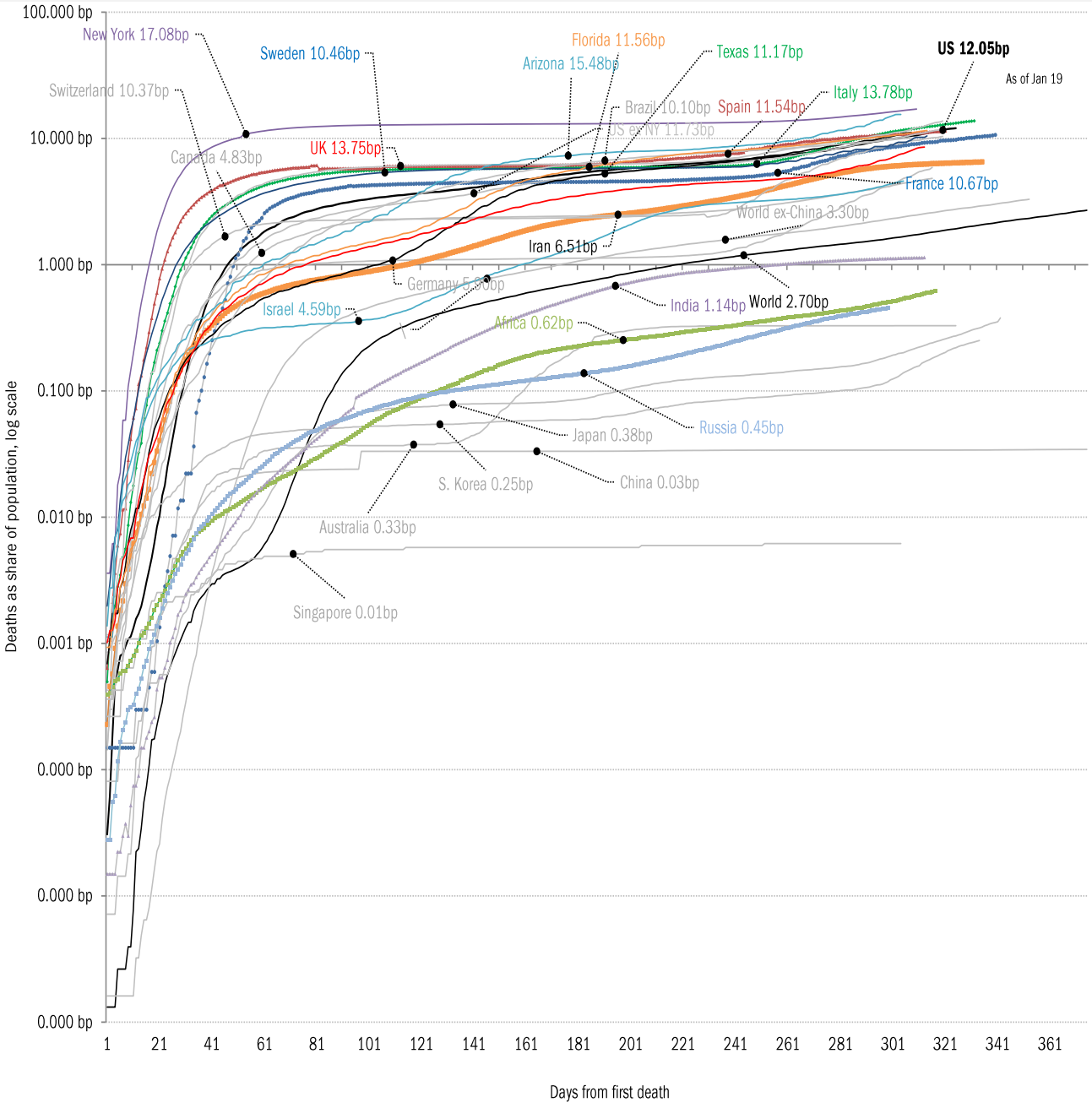
Share of infected population from first day with 100 confirmed cases, log scale



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

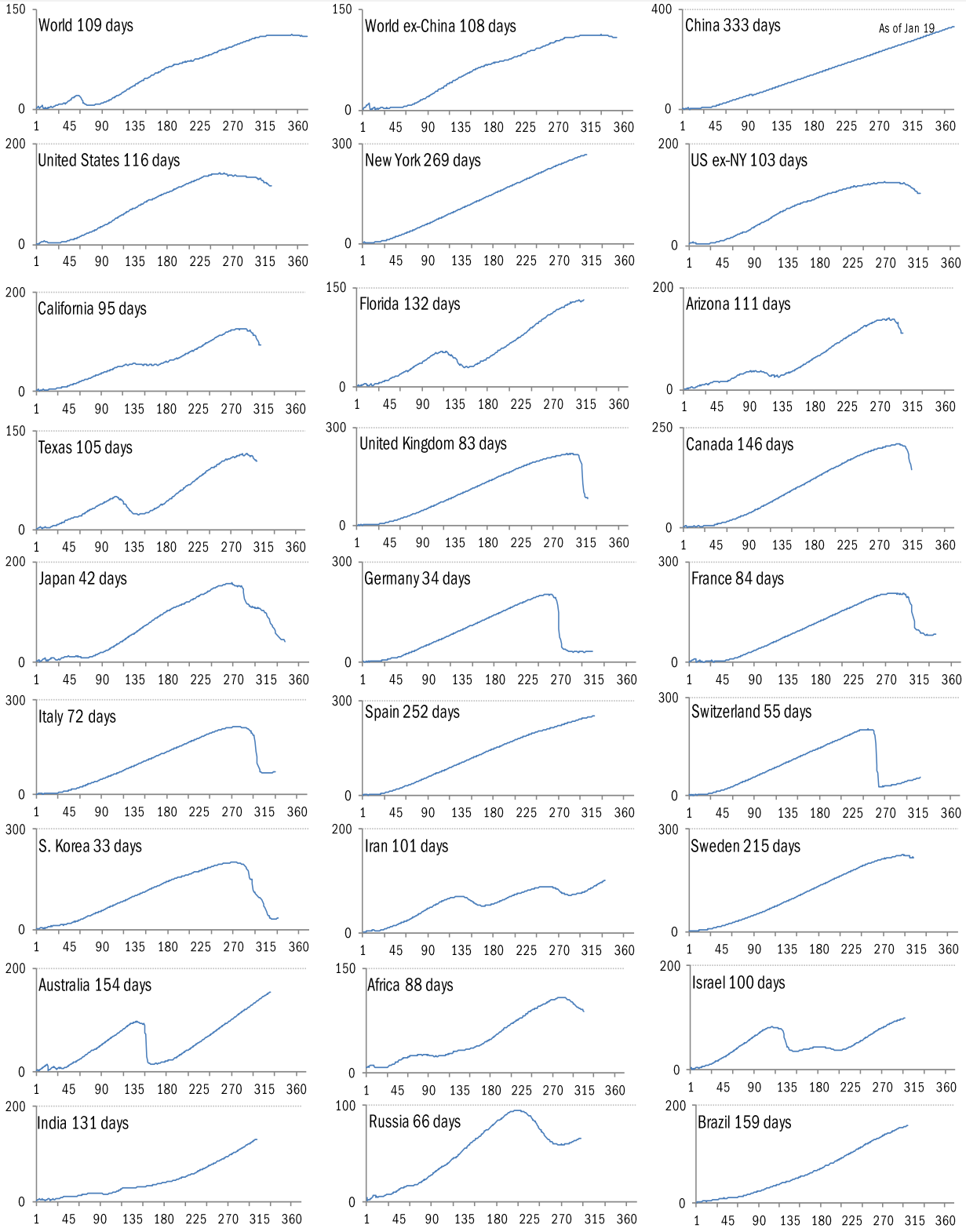


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

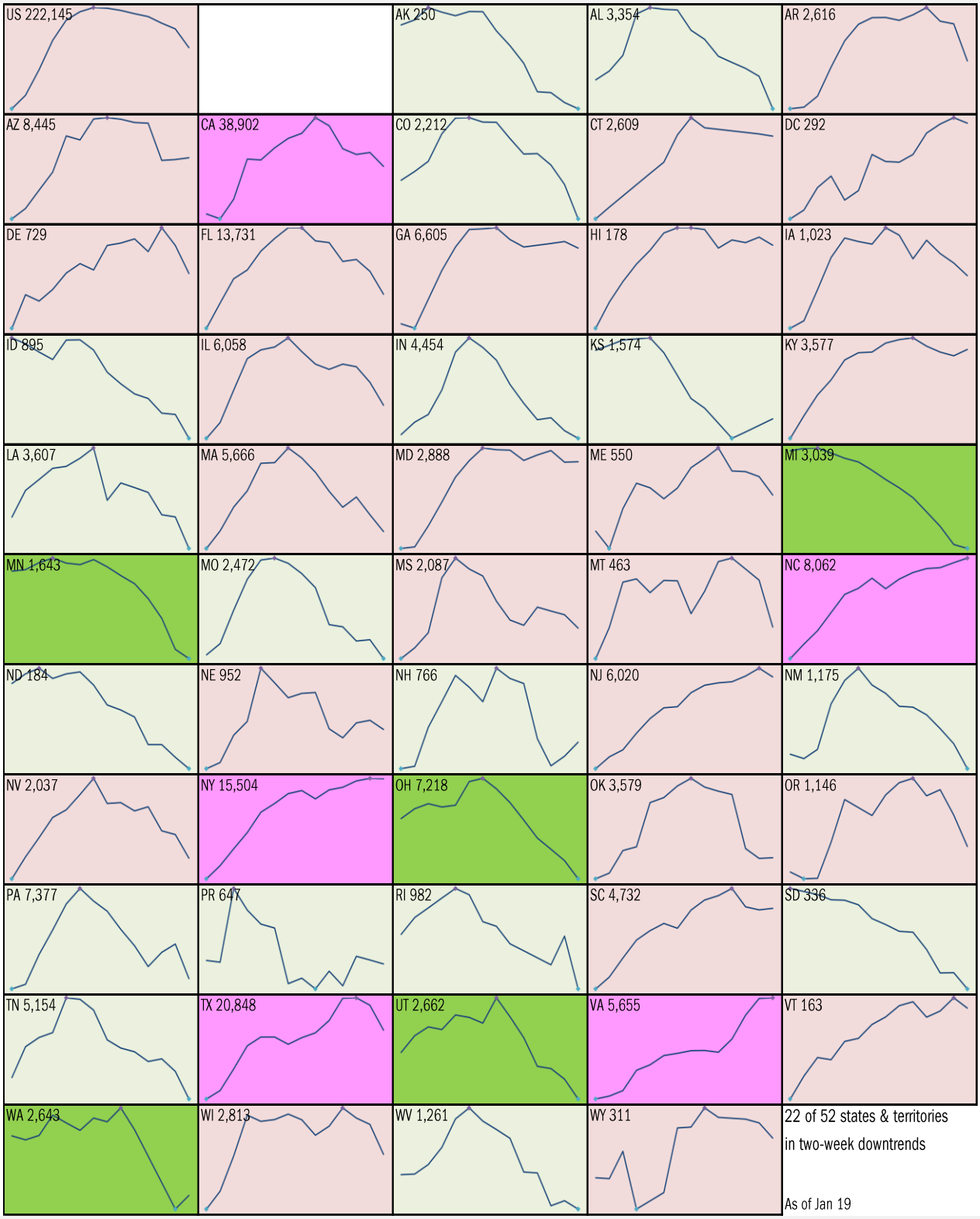


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

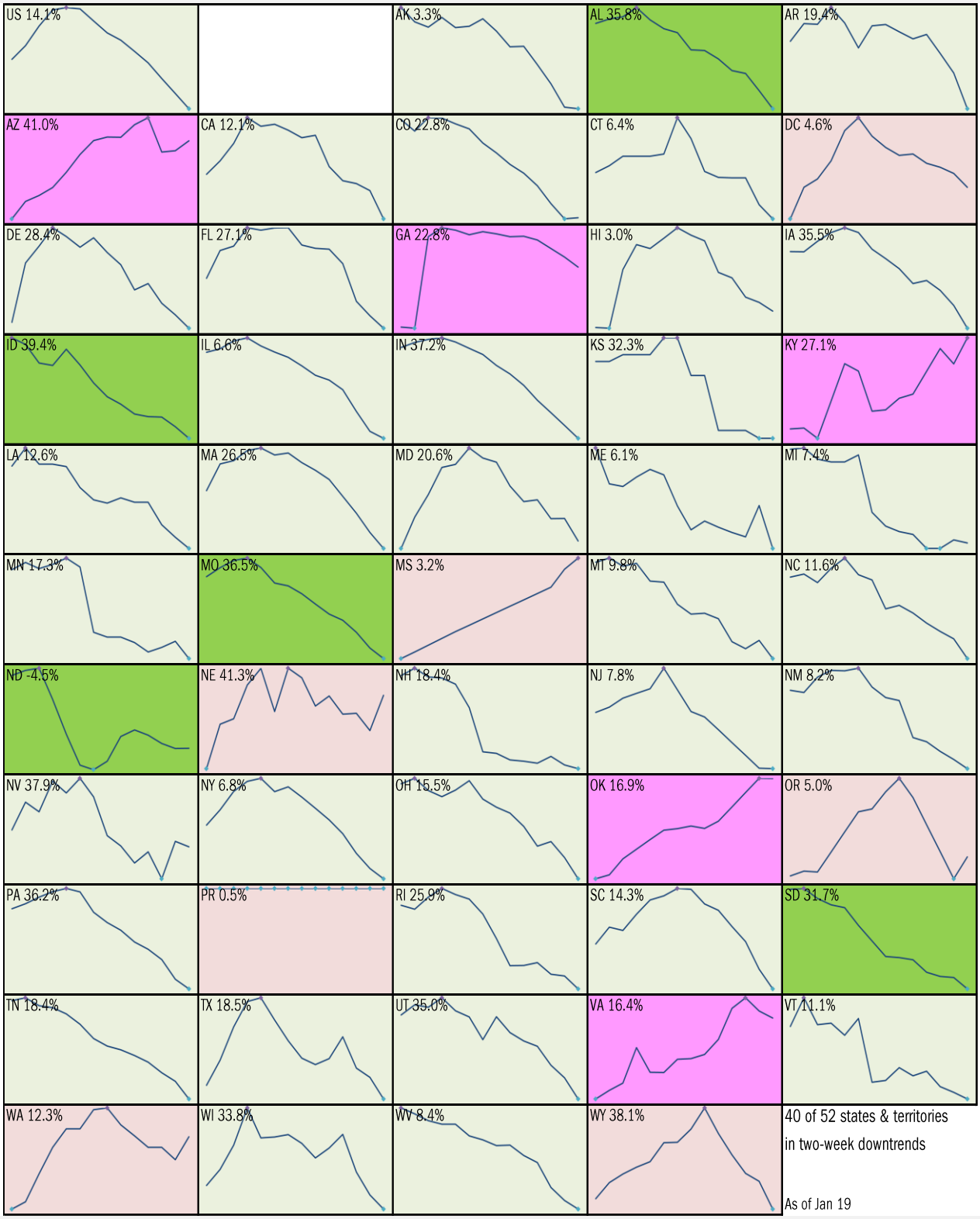


Source: Covid Tracking Project, TrendMacro calculations

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

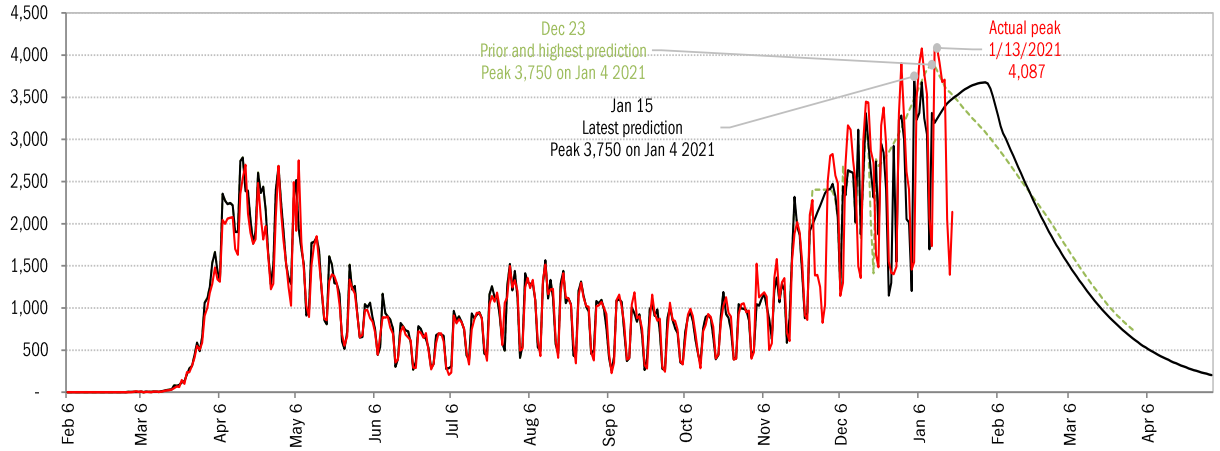


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

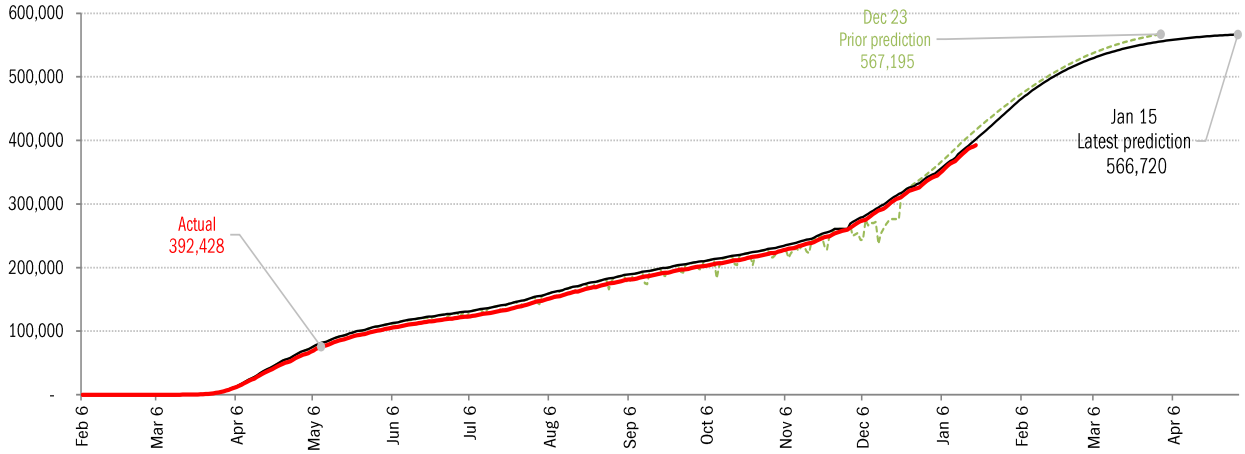
New daily fatalities As of Jan 19

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

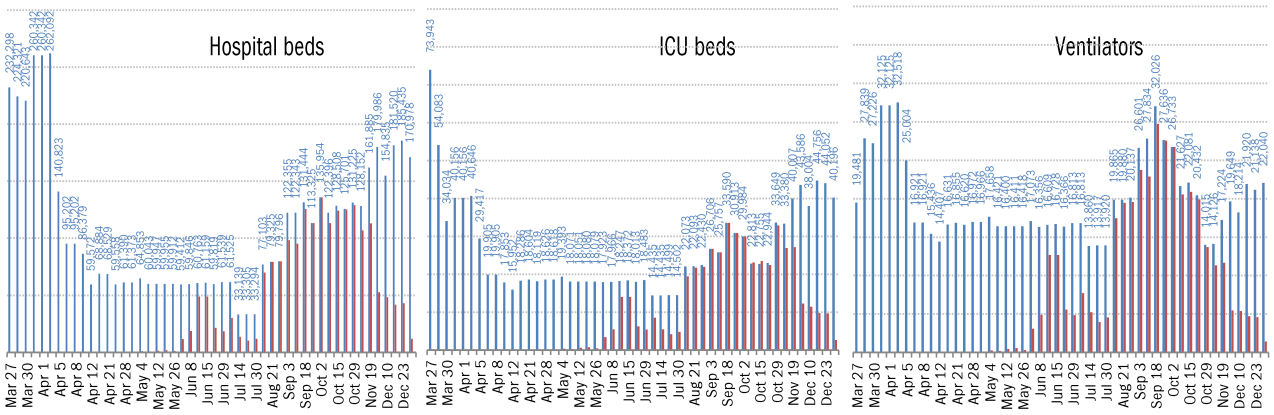


Cumulative fatalities

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

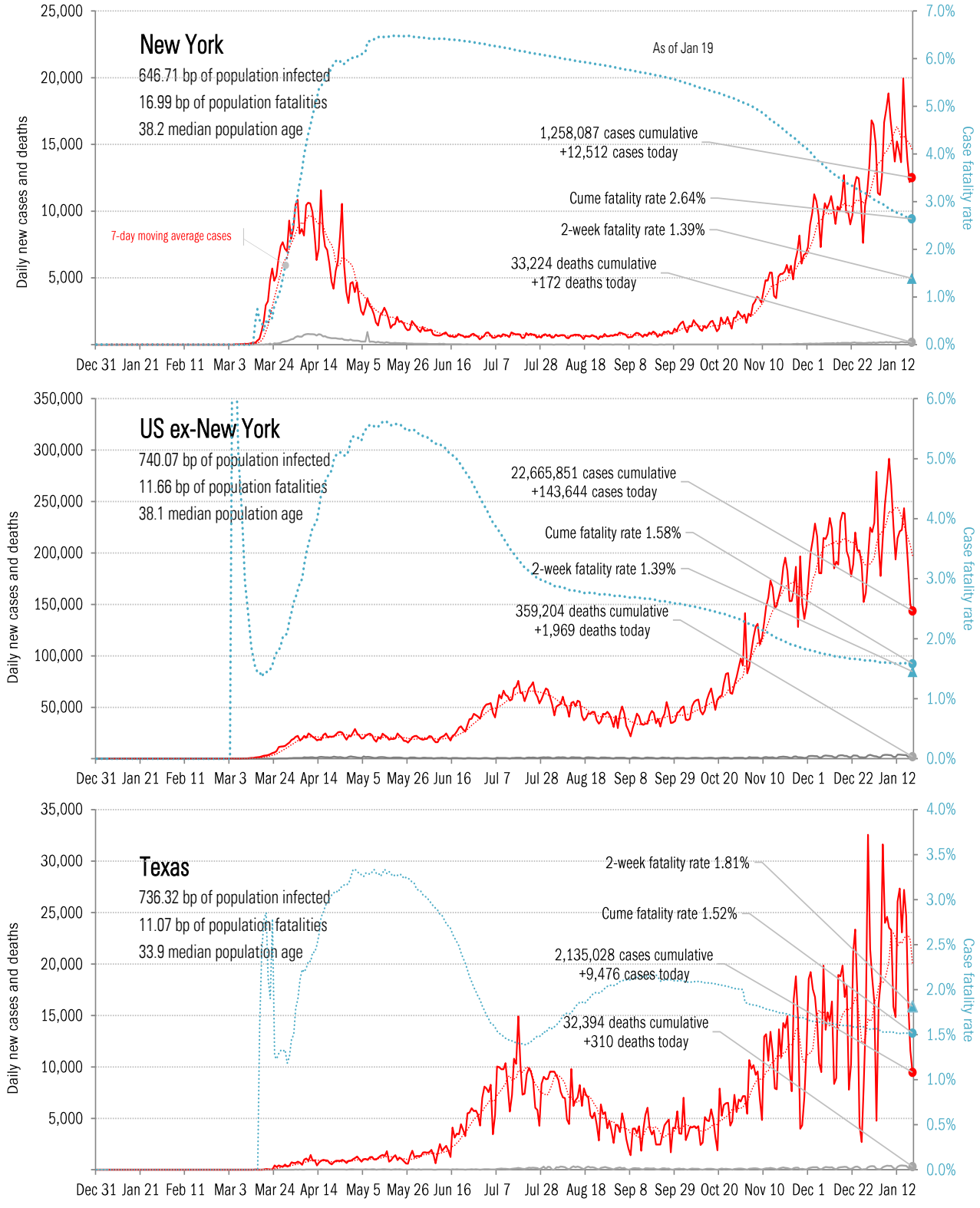


Healthcare system stress, peak and ultimate estimated at each model revision



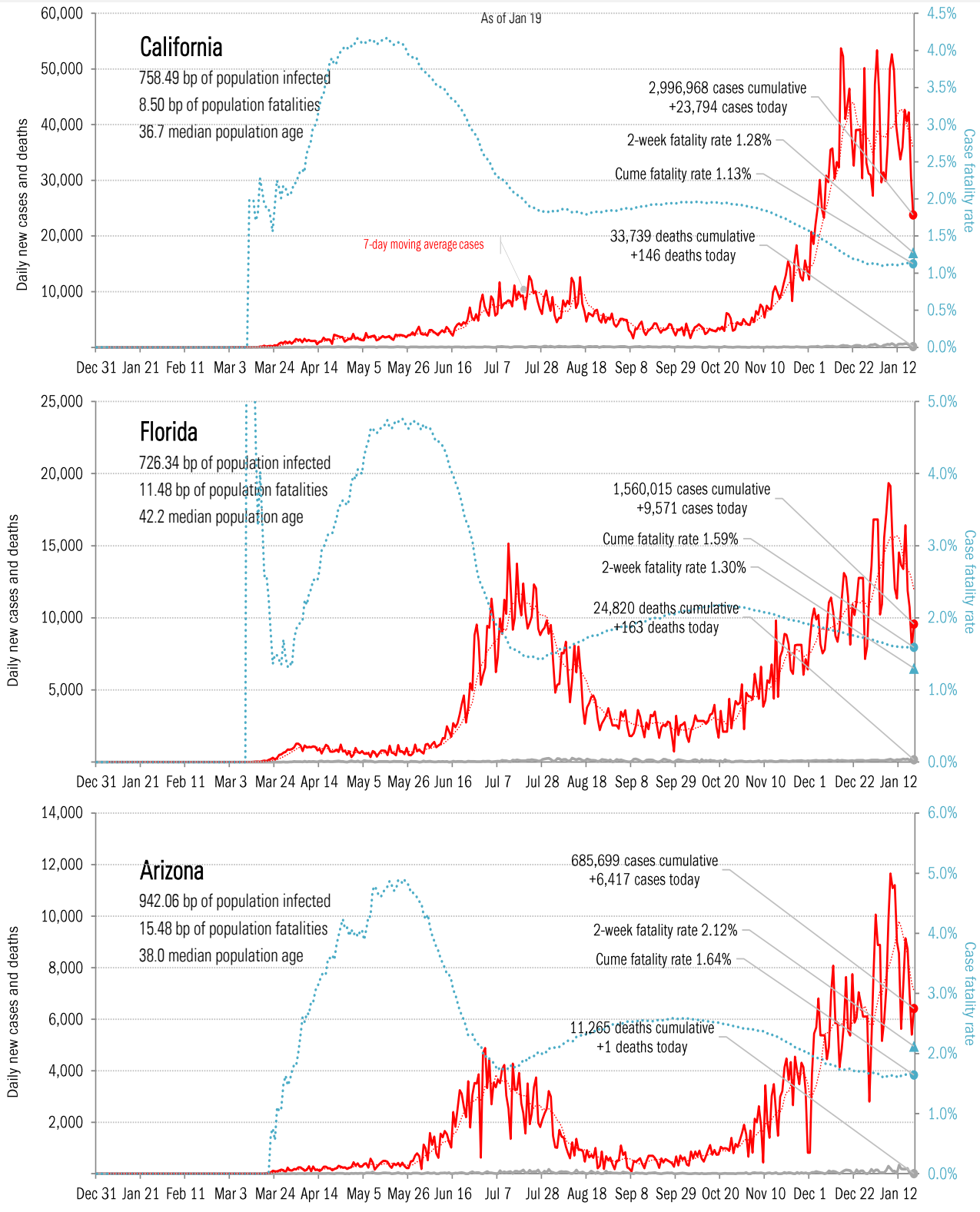
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



Source: Covid Tracking Project,, TrendMacro calculations

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



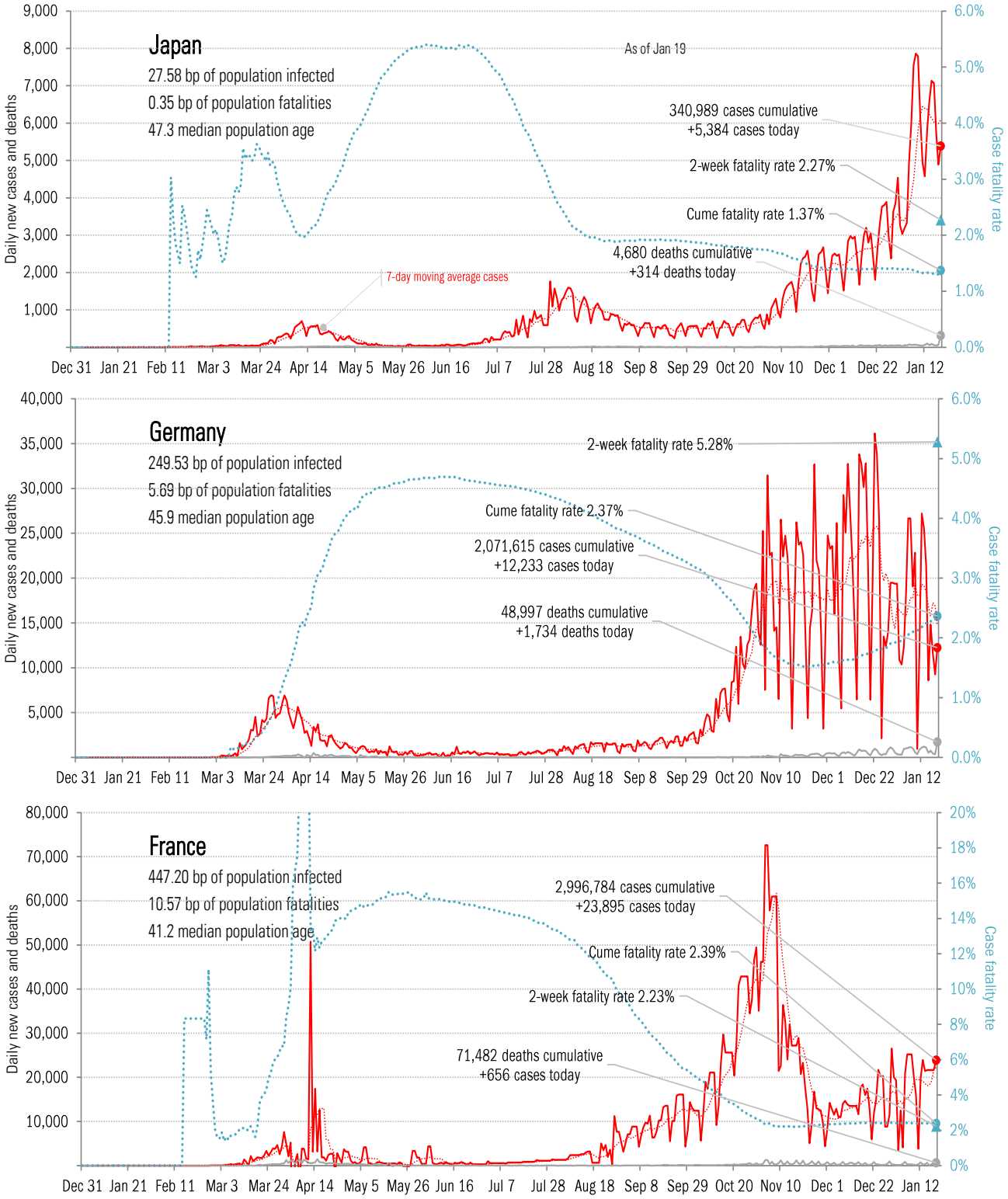
Source: Covid Tracking Project,, TrendMacro calculations

Patient zero… and then everyone else

s

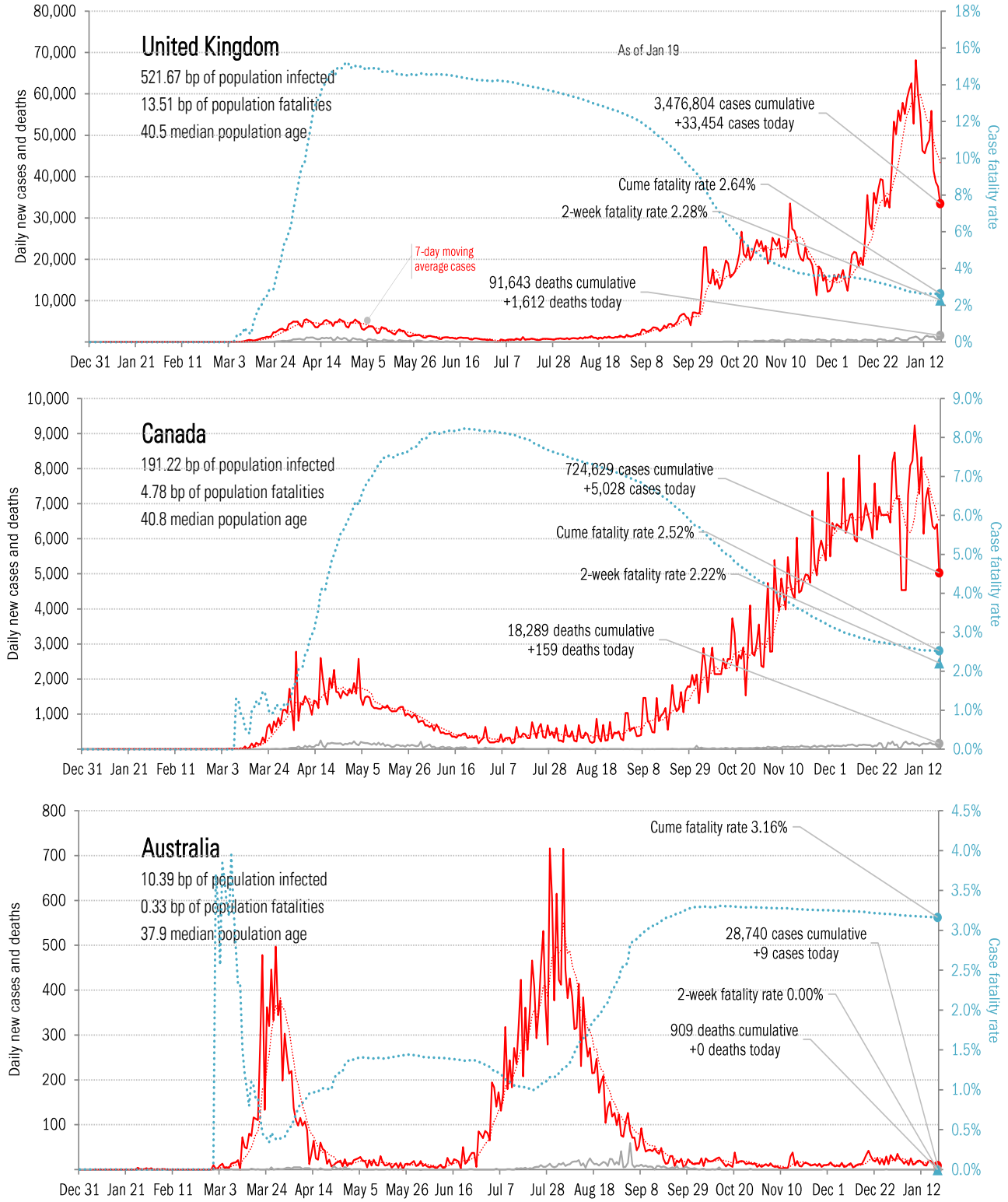
Source: Johns Hopkins, Covid Tracking Project,TrendMacro calculations

Impact in the largest economies



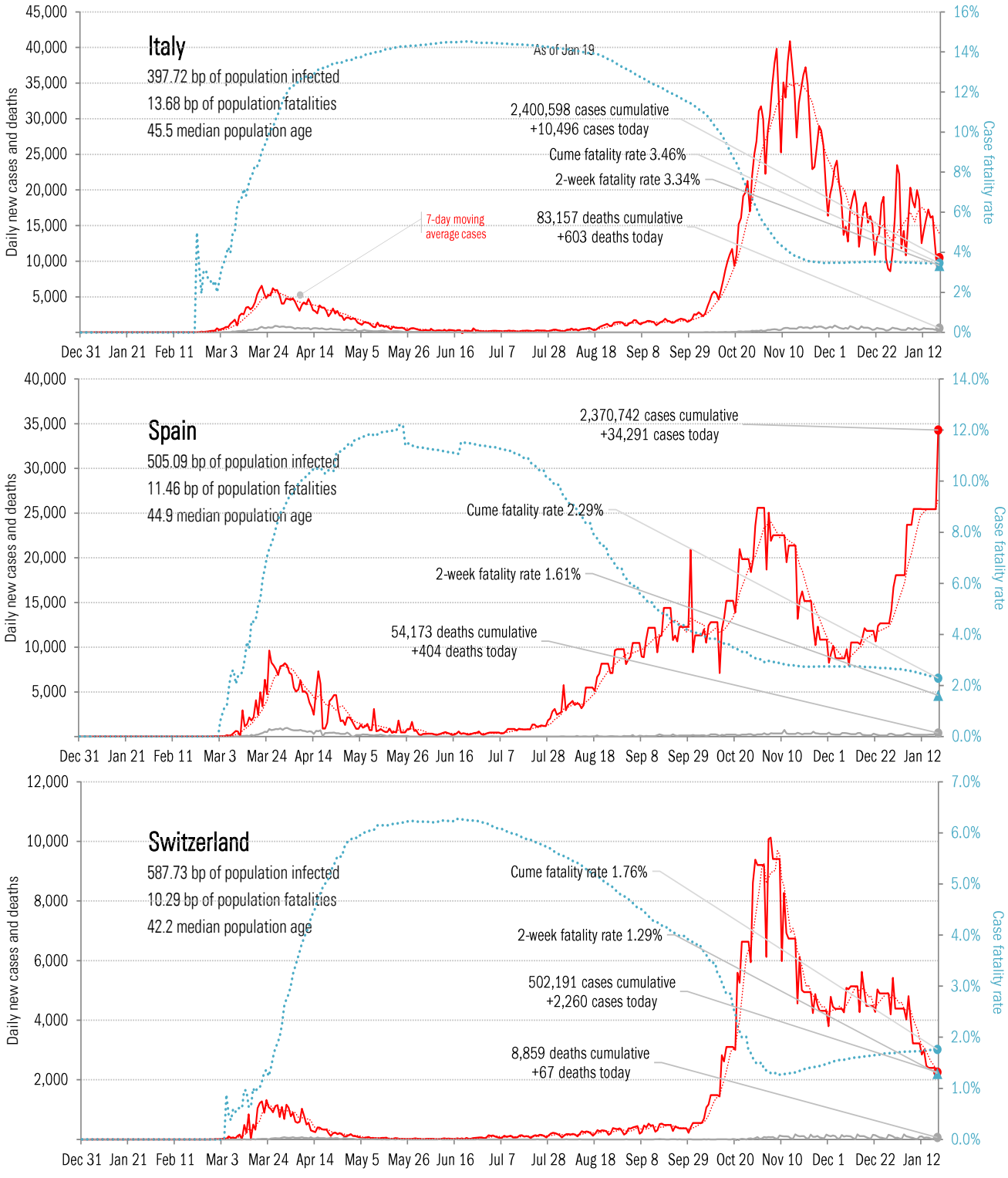
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



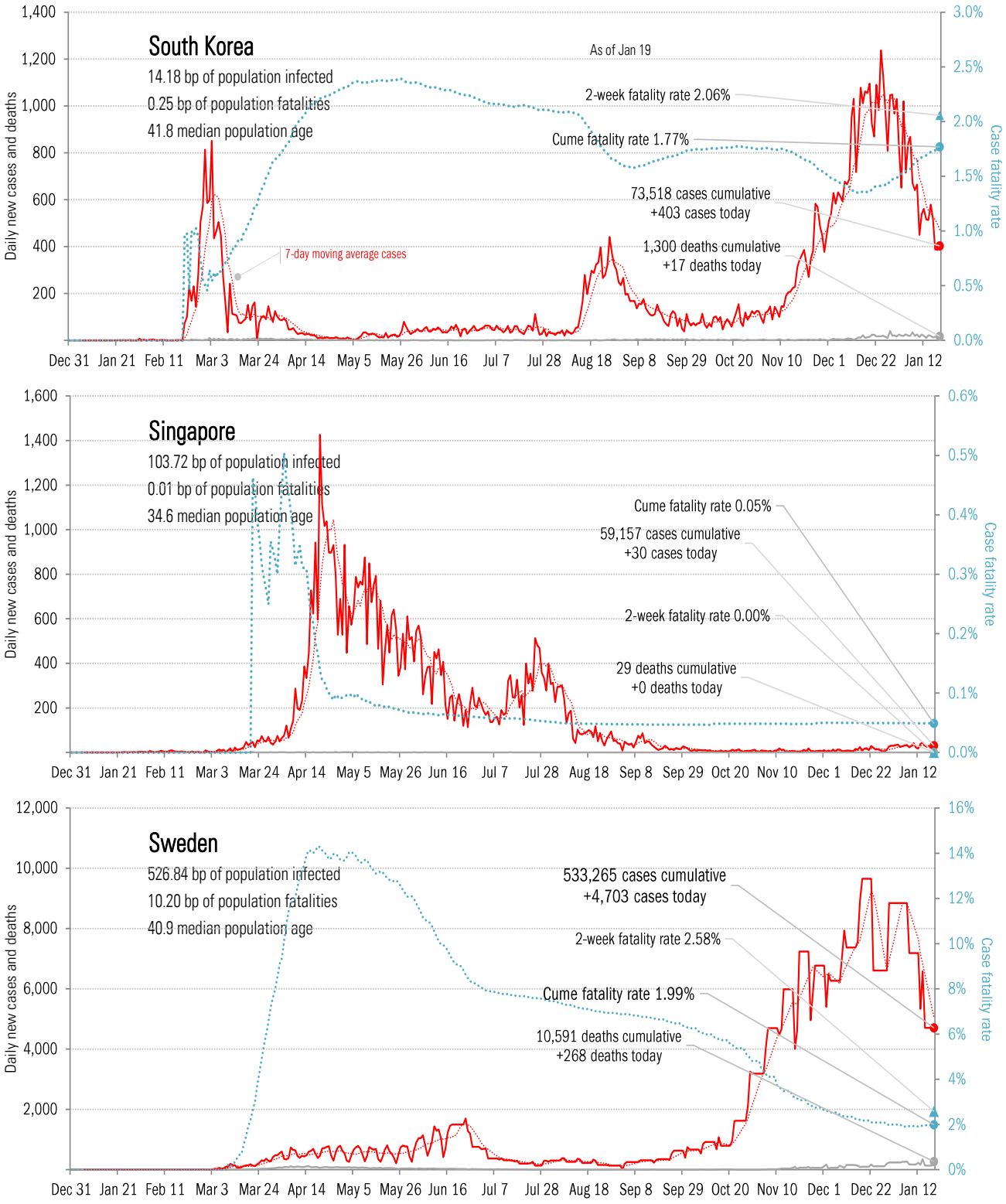
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



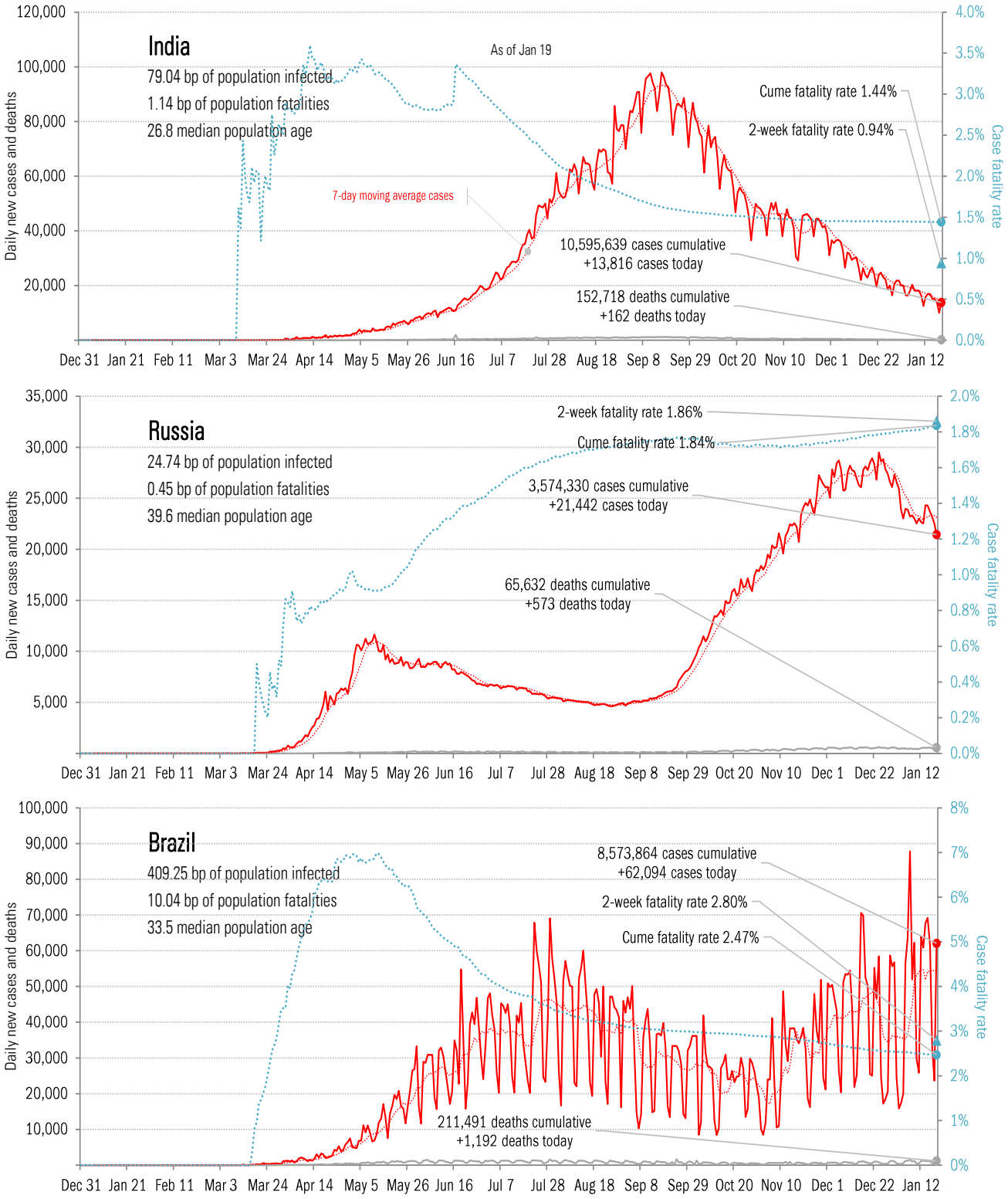
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



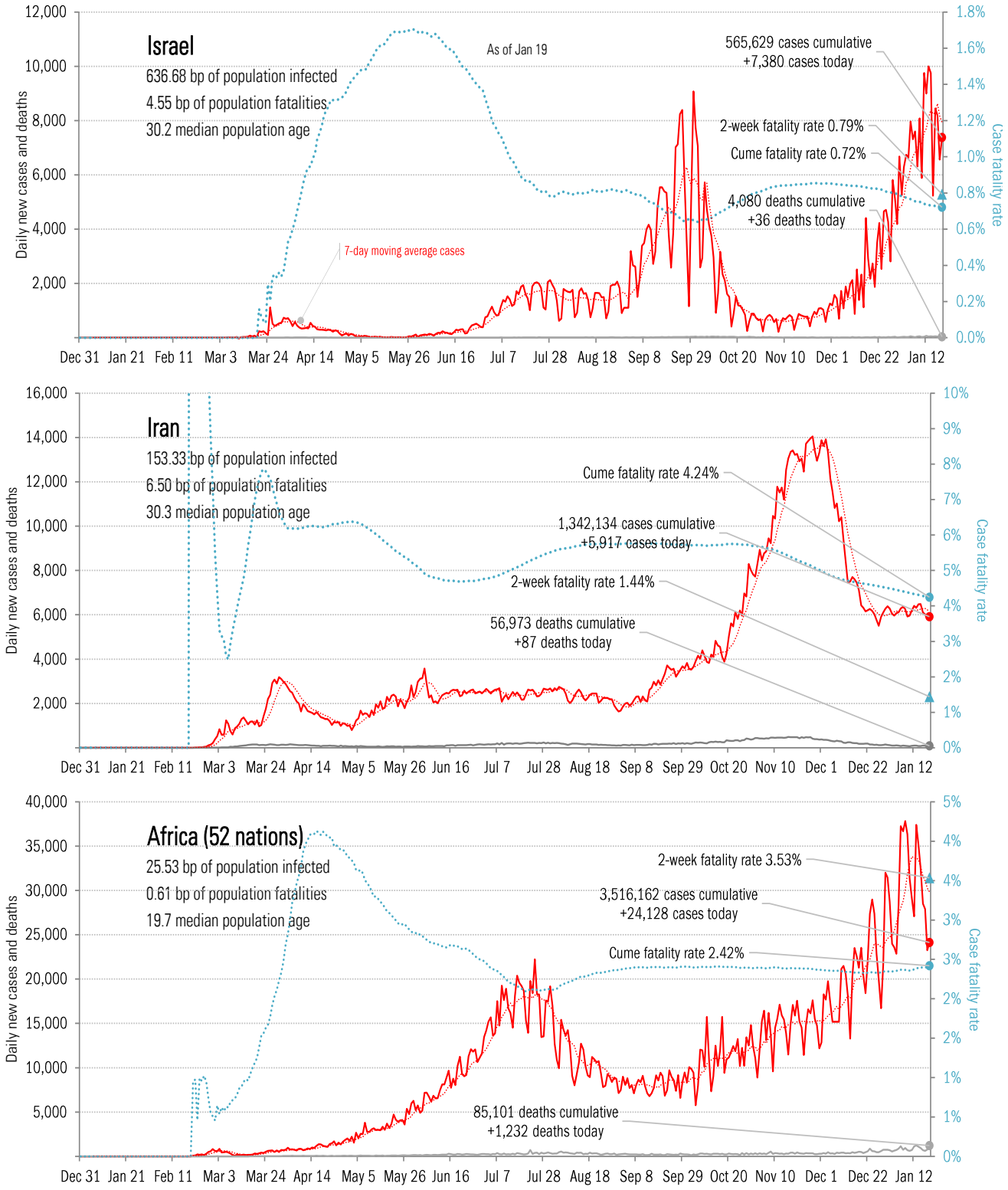
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations