Trend Macrolytics, LLC
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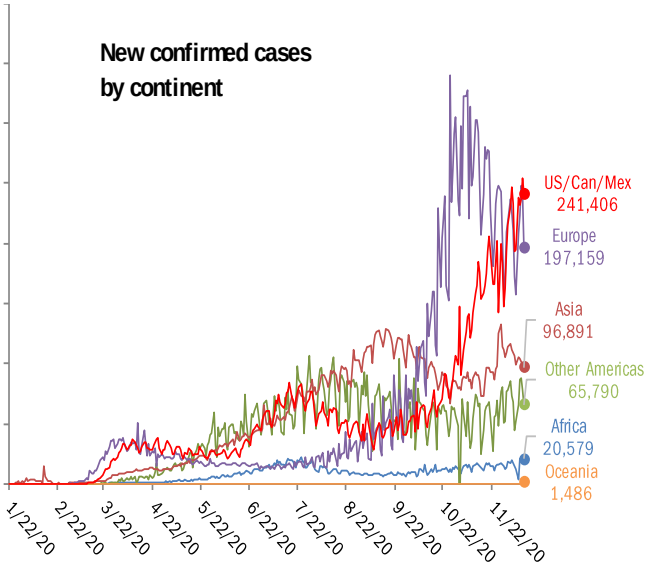
Data Insights: Covid-2019 Monitor

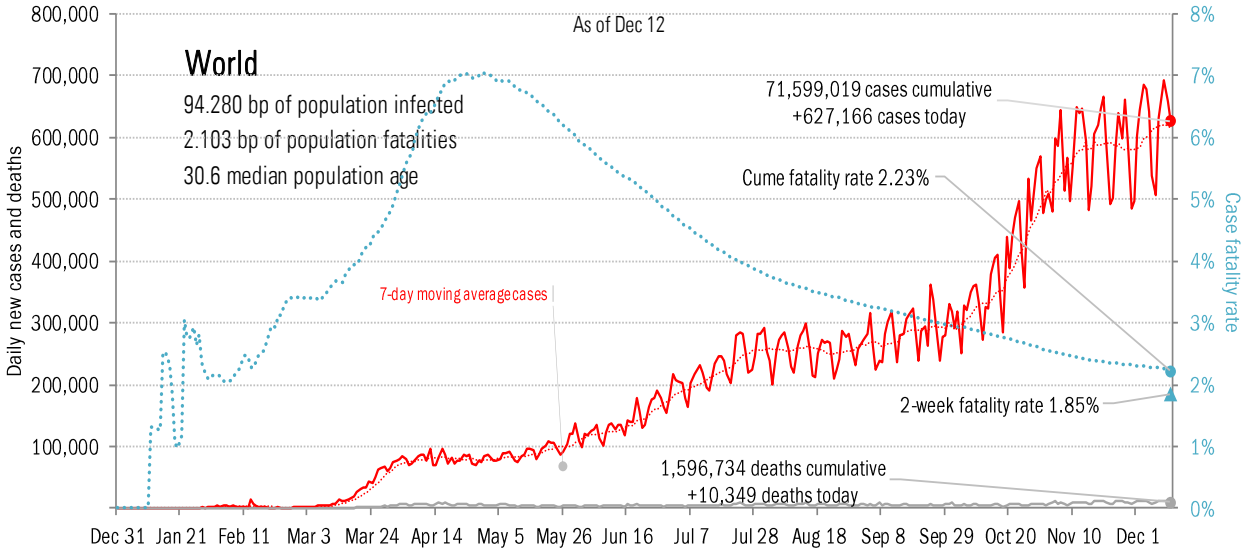
Sunday, December 13, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+223,365	United States	+2,477
Brazil	+43,900	Brazil	+686
India	+30,254	Mexico	+685
Turkey	+29,136	Italy	+649
Russia	+27,729	Russia	+553
#N/A	+21,792	United Kingdom	+520
#N/A	+21,554	Poland	+502
#N/A	+19,902	India	+391
#N/A	+13,219	Germany	+333
Mexico	+12,057	Ukraine	+250
	+442,908		+7,046
World	+627,166	World	+10,349
Top ten	71%	Top ten	68%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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The US scorecard

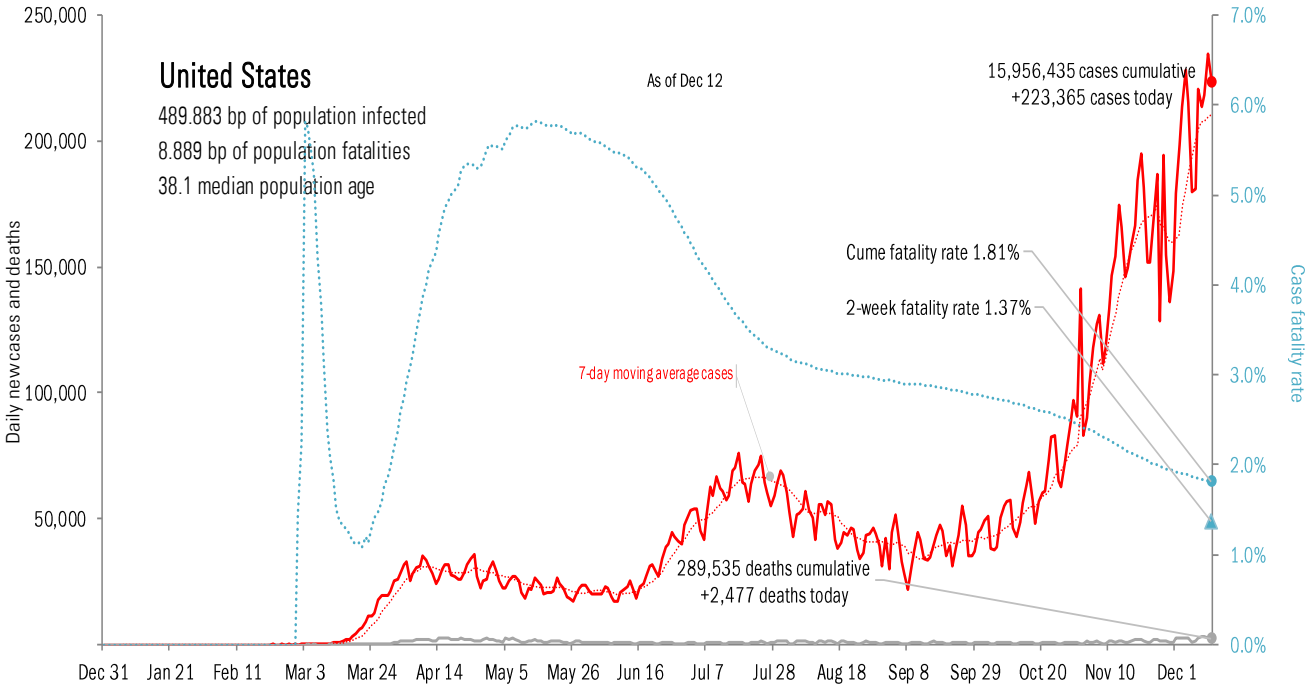
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
CA	+35,729	TX	+249	CA	+470	CA	1,521,432	NY	27,675	NY	89,995
TX	+16,360	MI	+230	PA	+272	TX	1,464,362	TX	23,800	FL	58,750
OH	+11,252	CA	+225	TX	+83	FL	1,098,341	CA	20,847	NJ	43,712
NY	+11,129	PA	+201	MA	+65	IL	841,688	FL	20,049	GA	37,550
PA	+11,084	IL	+165	NC	+63	NY	764,966	NJ	17,732	OH	31,803
FL	+10,385	NY	+88	AZ	+52	OH	553,461	IL	15,232	AZ	30,687
IL	+8,737	IN	+85	AL	+50	PA	481,118	PA	12,436	IN	30,533
AZ	+8,077	AZ	+77	NY	+38	GA	471,734	MA	11,307	AL	28,146
IN	+7,401	TN	+73	TN	+29	WI	465,991	MI	11,195	MD	23,189
TN	+6,691	FL	+72	SC	+16	MI	465,159	GA	10,075	MN	19,428
	+126,845		+1,465		+1,138		8,128,252		170,348		393,793
All states	+223,365	All states	+2,477	All states	+379	All states	15,956,435	All states	289,535	All states	612,495
Top ten	57%	Top ten	59%	Top ten	300%	Top ten	51%	Top ten	59%	Top ten	64%

Some states not reporting

Five most improved US states

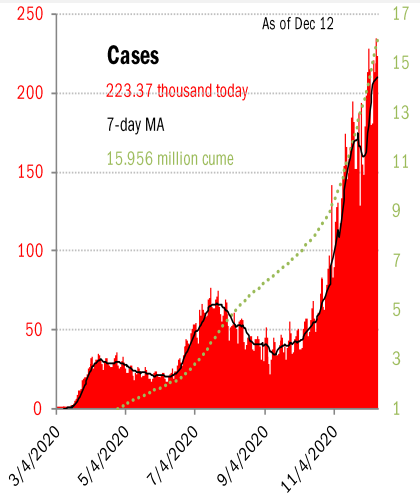
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
KS	-5,491	KS	-131	MO	-239	MI	+38,619
CT	-3,782	OH	-77	FL	-186	TX	+10,641
LA	-2,862	CO	-62	GA	-140	OH	+9,646
PA	-1,661	IA	-62	NY	-119	MN	+7,749
RI	-1,571	IL	-57	IL	-96	PA	+6,429

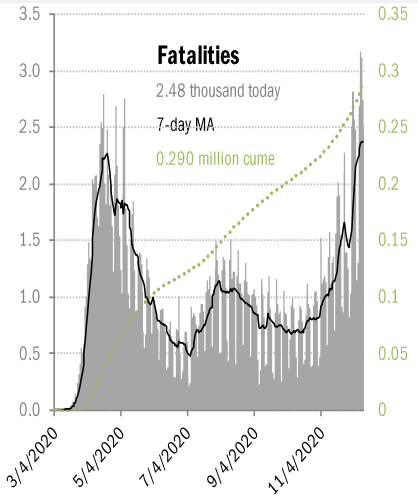


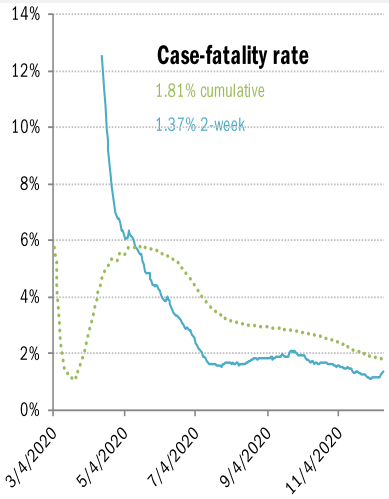
Source: Covid Tracking Project, TrendMacro calculations

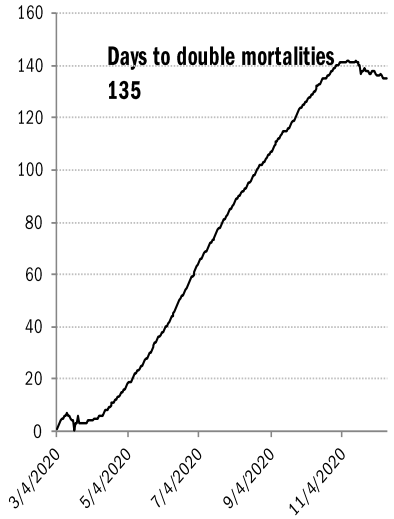
US deep-dive

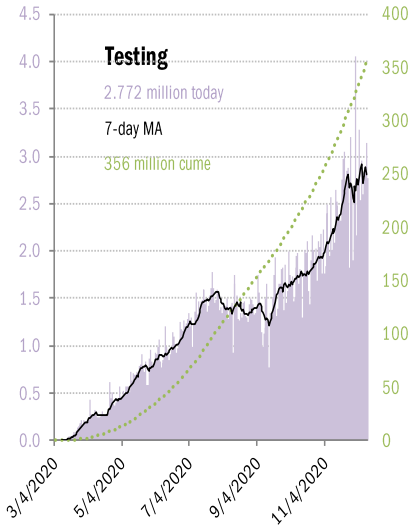
National and state-by-state data do not line up because of different sources

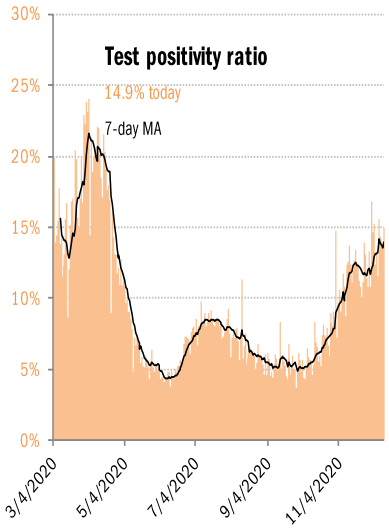


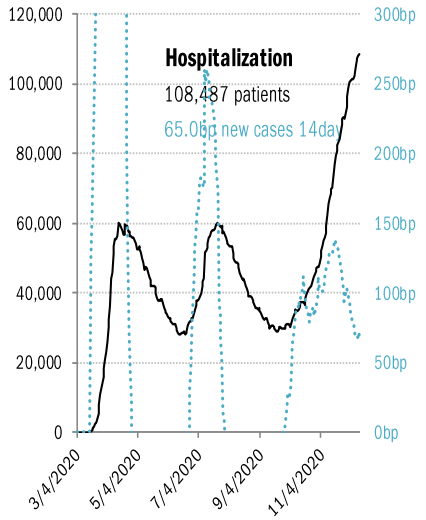


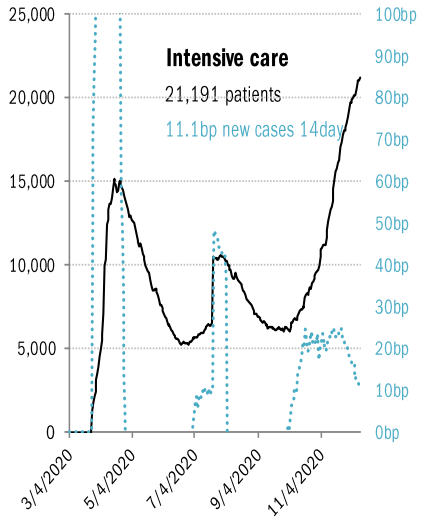


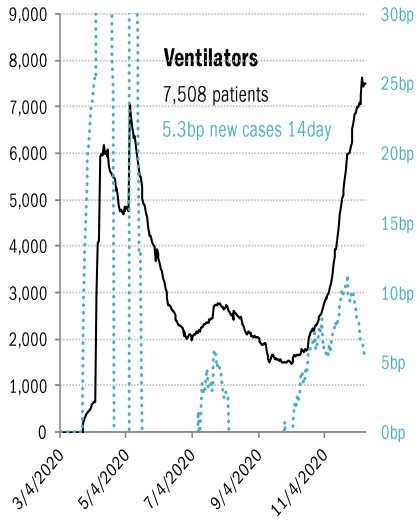






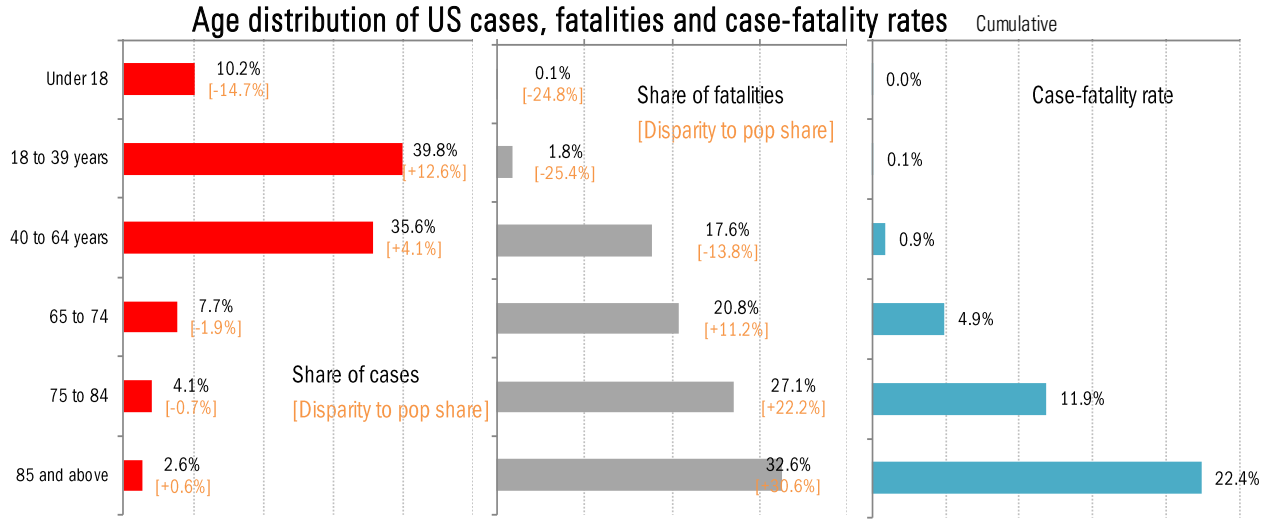


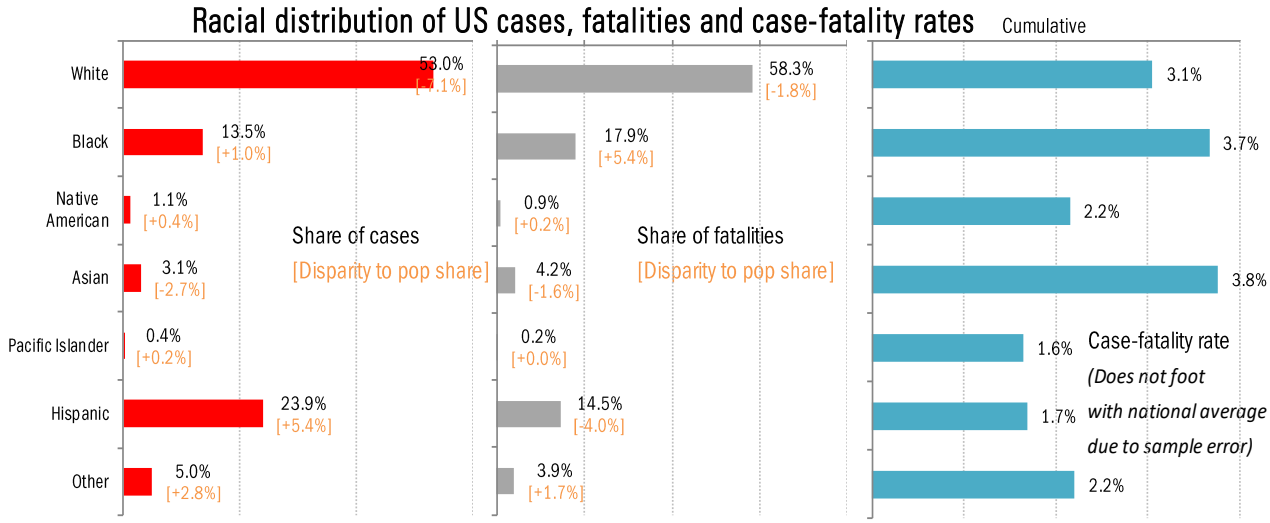




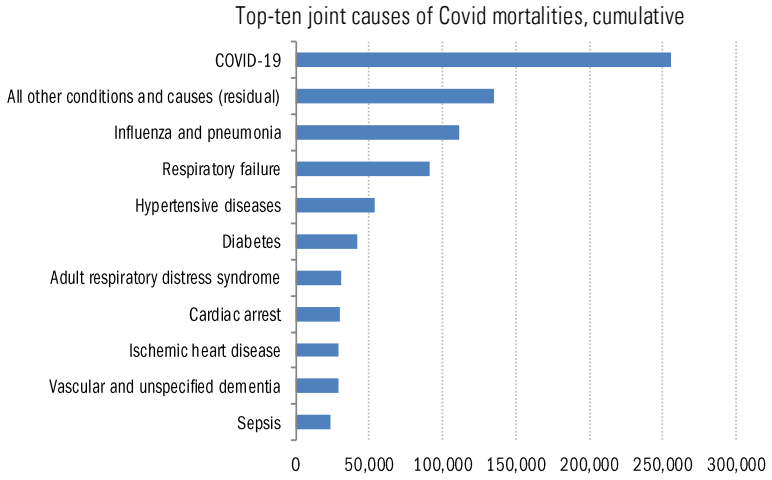
Source: Covid Tracking Project, TrendMacro calculations

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





Comorbidites



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.

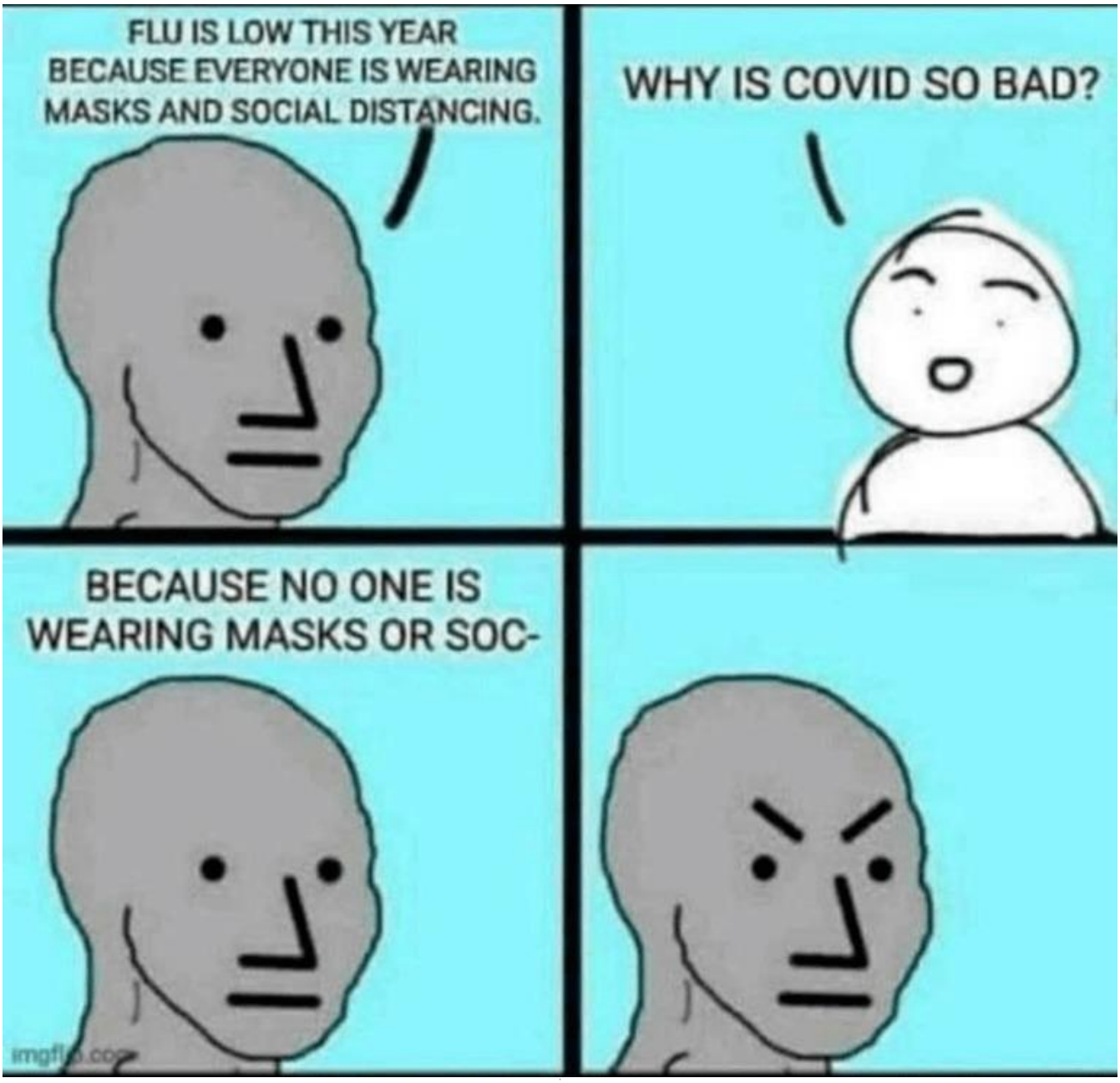
Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

[Pandemic Housing Shifts Will Speed Recovery in 2021]
Conor Sen
Bloomberg
December 12, 2020

[Google's YouTube Shuts Down Dilbert Creator Scott Adams]
Tristan Justice
The Federalist
December 11, 2020

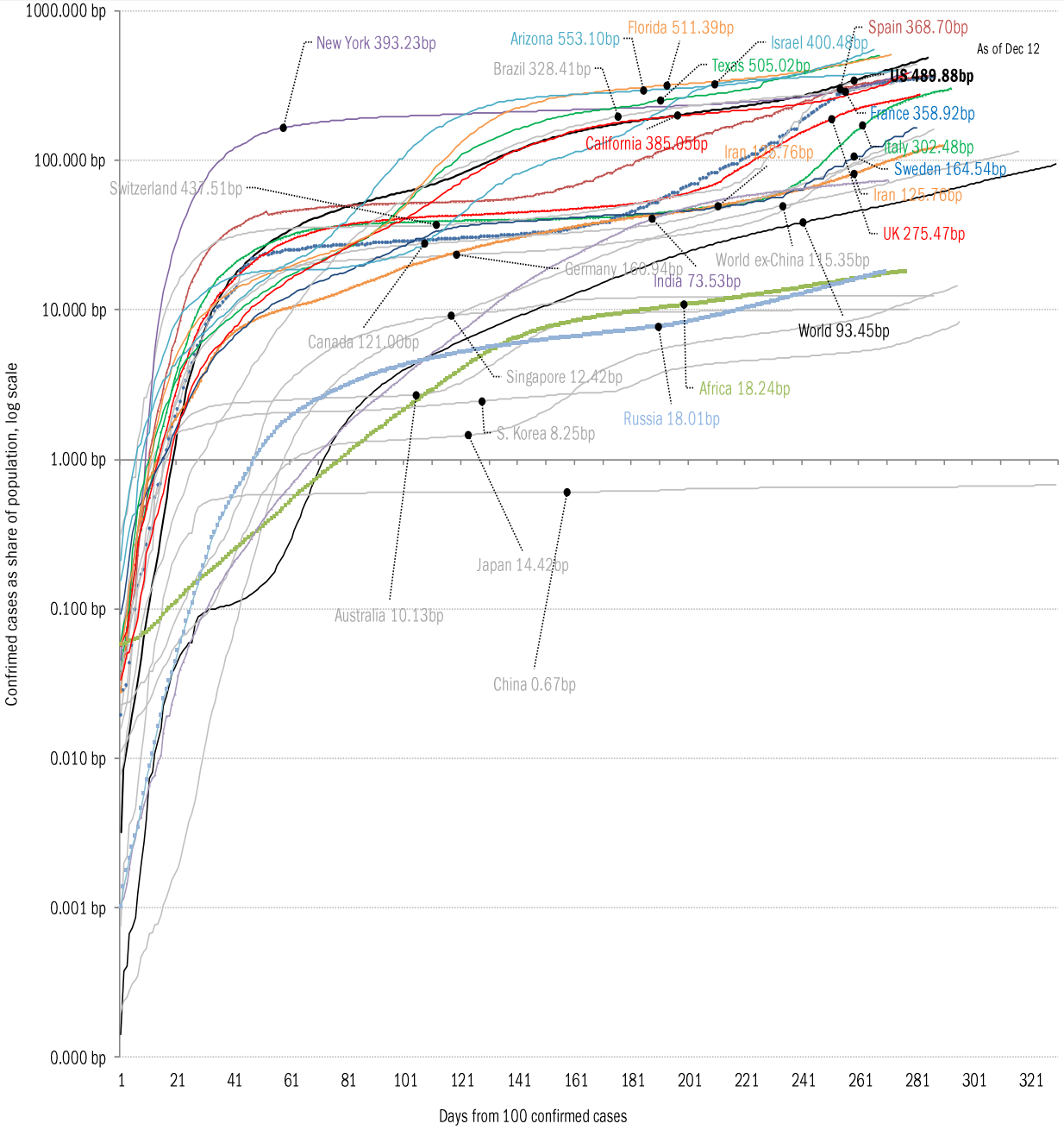
Meme of day



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

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

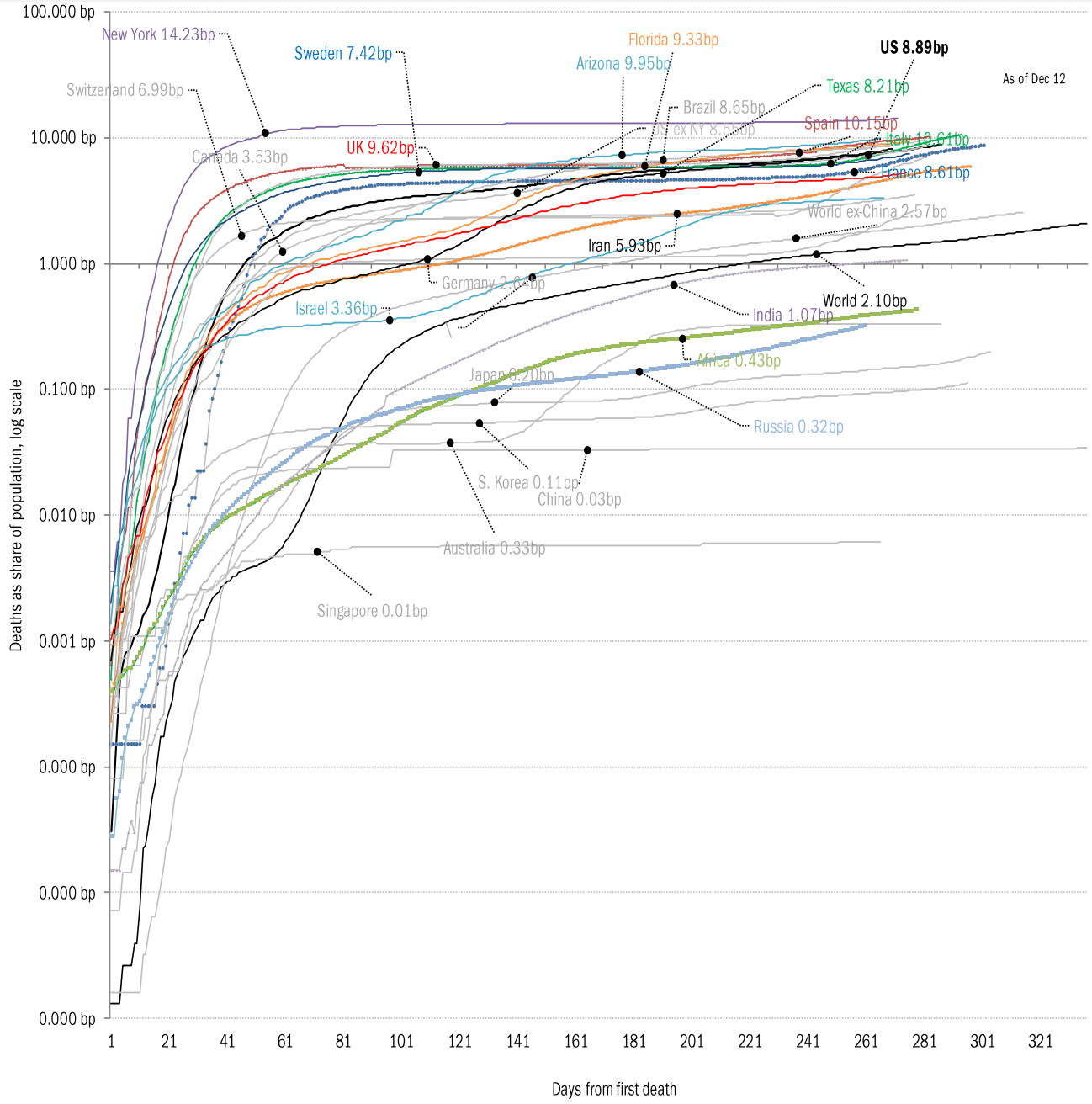
Share of infected population from first day with 100 confirmed cases, log scale



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

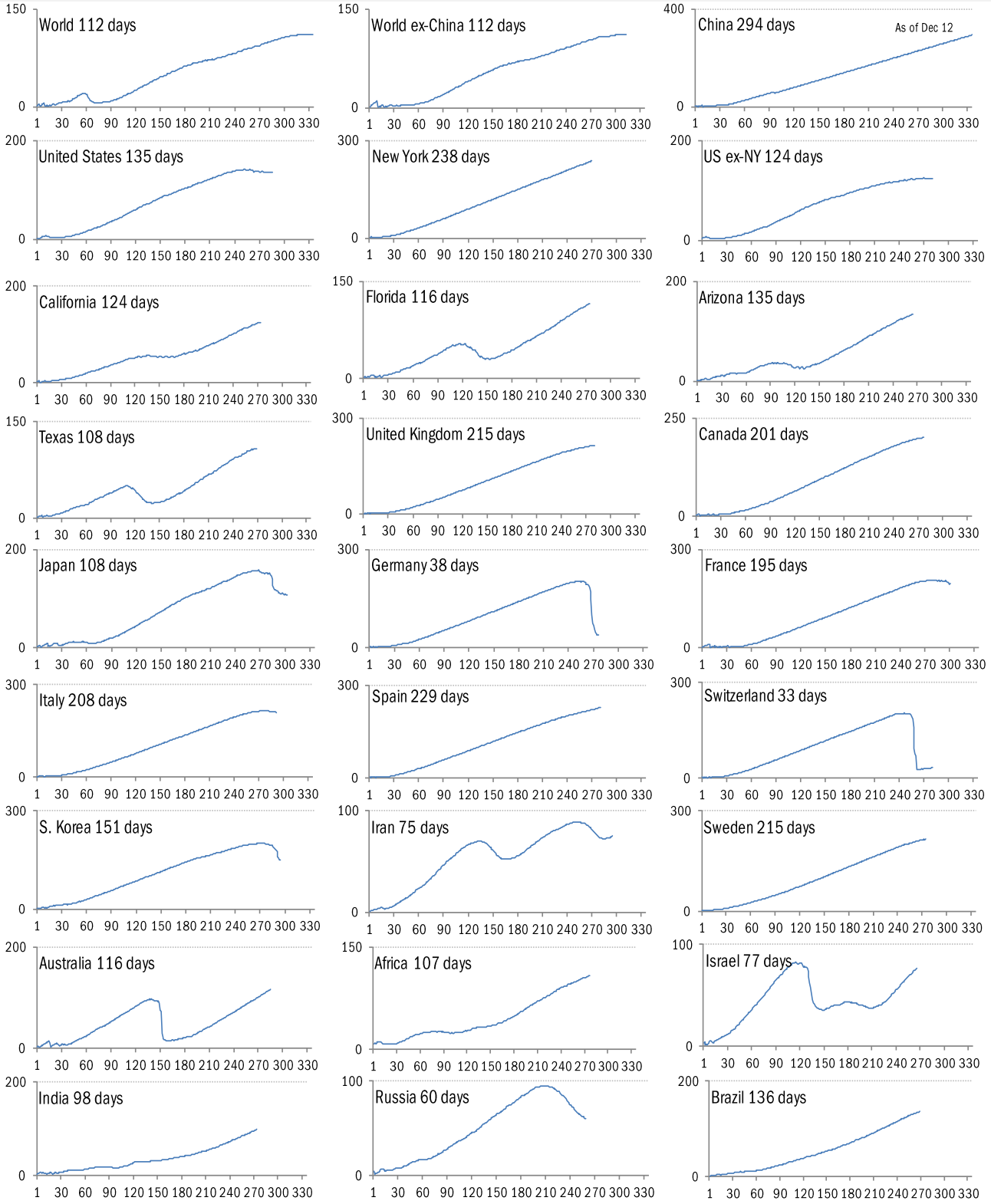


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

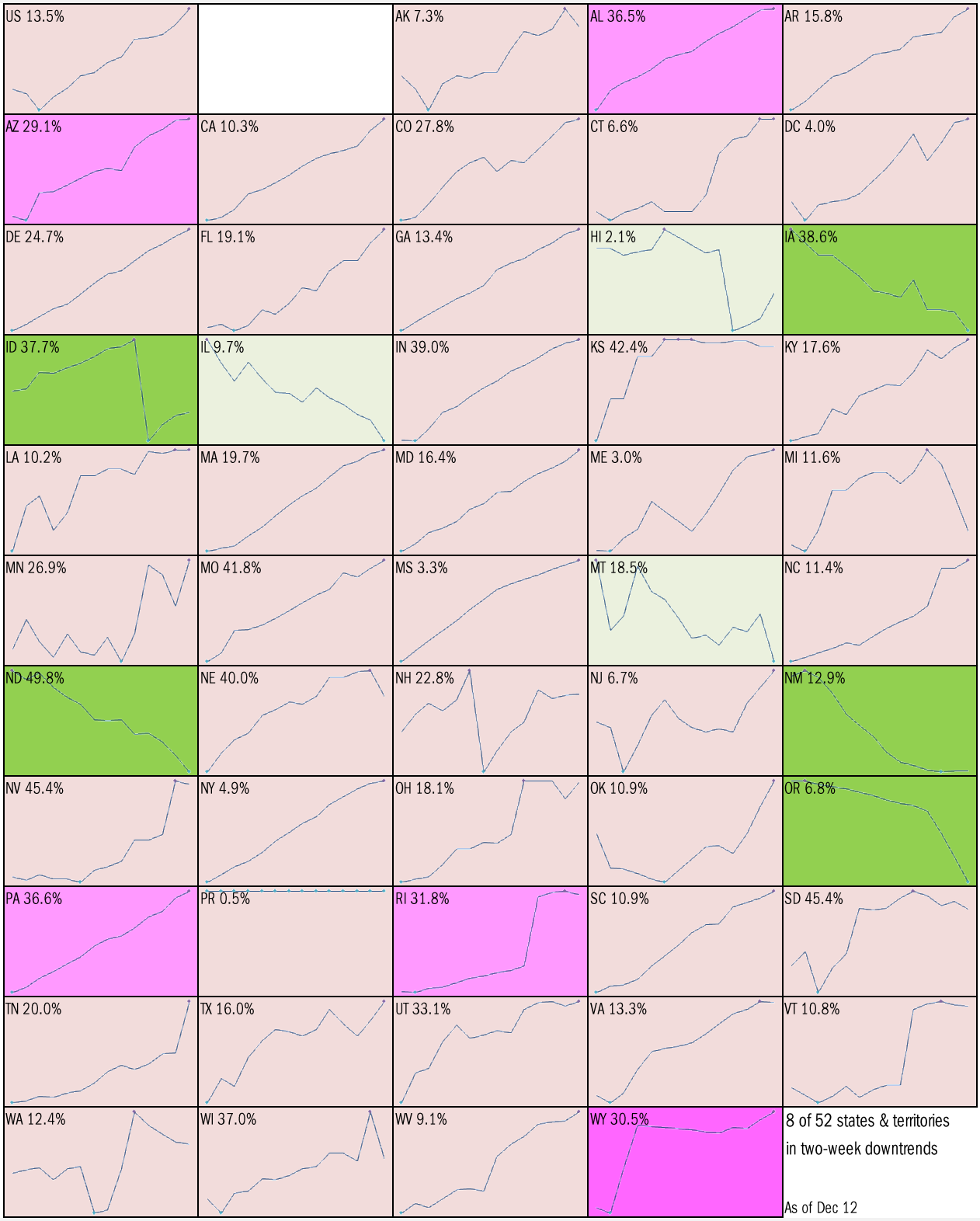
Downward trajectory Five best Upward trajectory Five worst

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

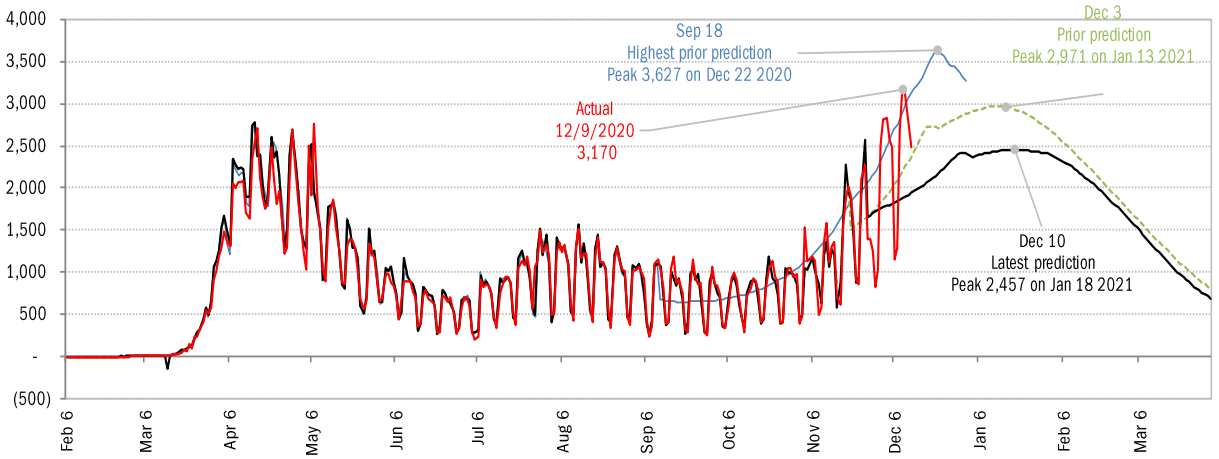


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

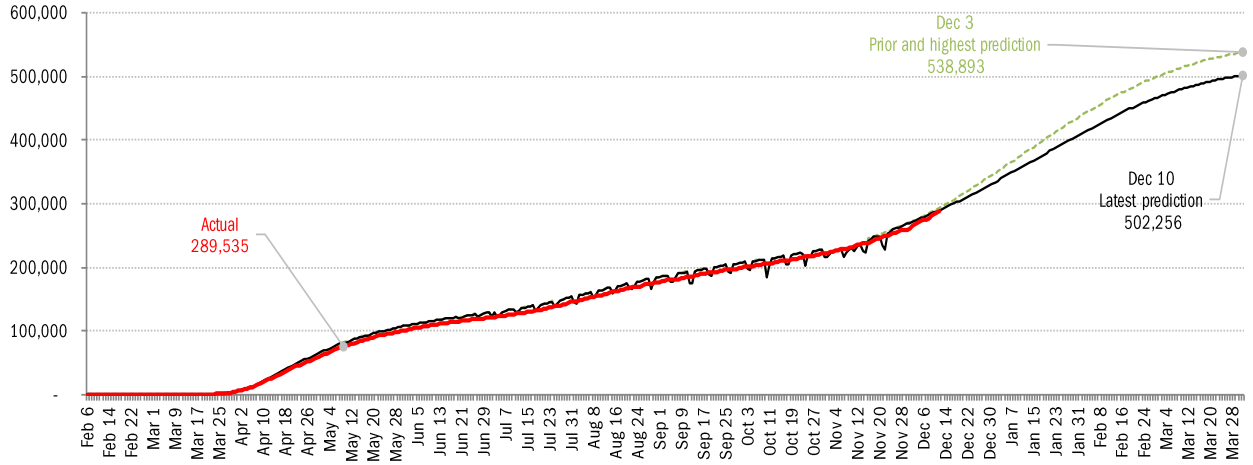
New daily fatalities As of Dec 12

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

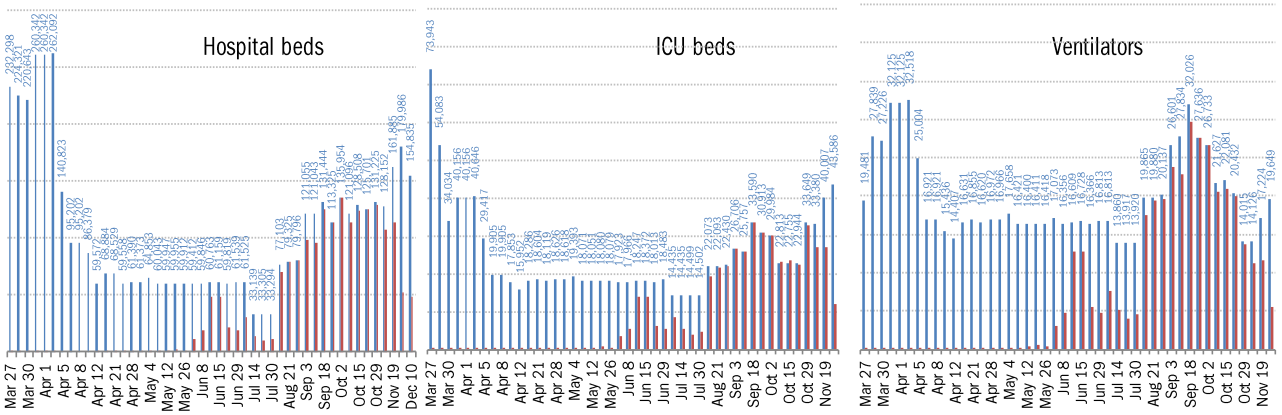


Cumulative fatalities

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

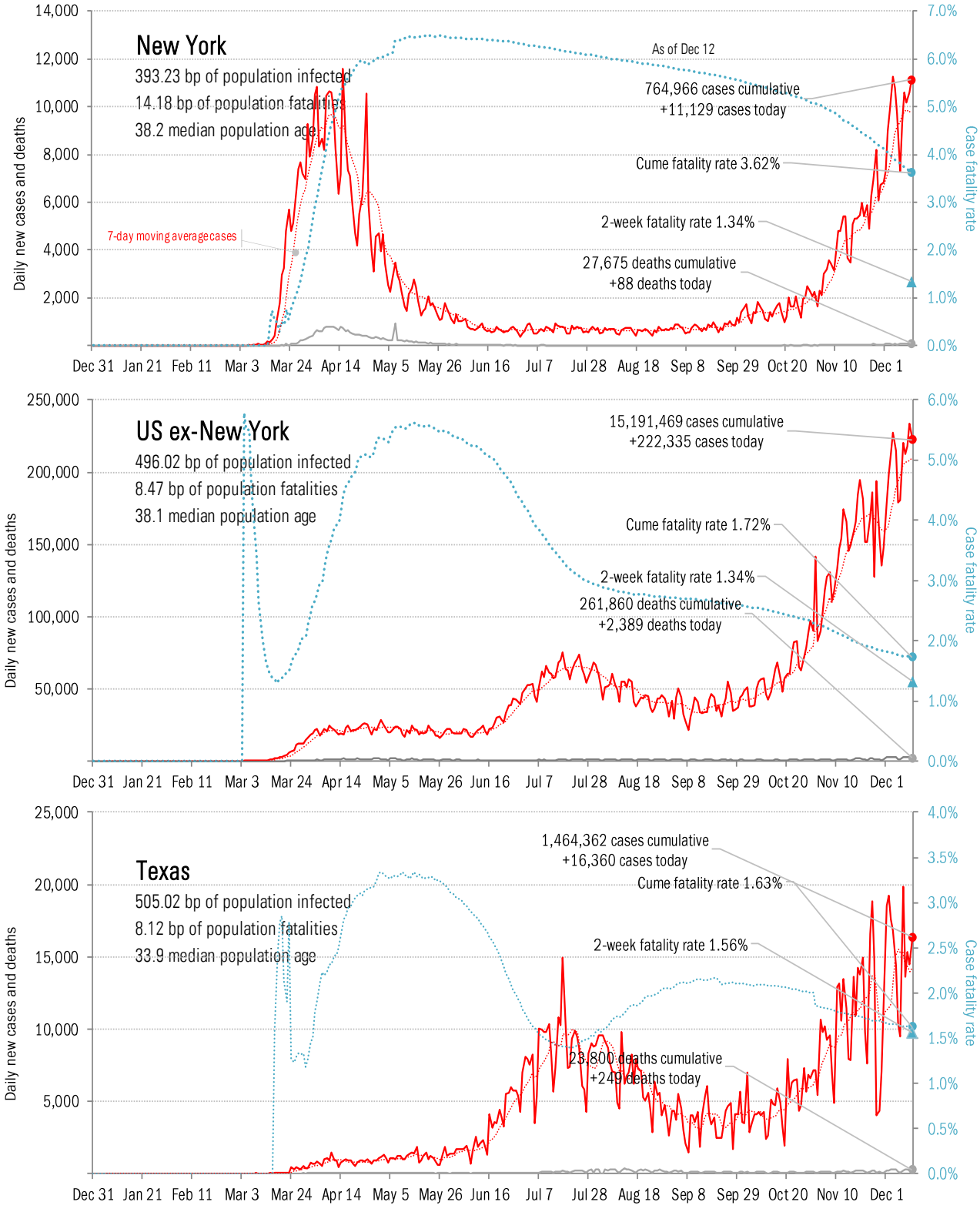


Healthcare system stress, peak and ultimate estimated at each model revision



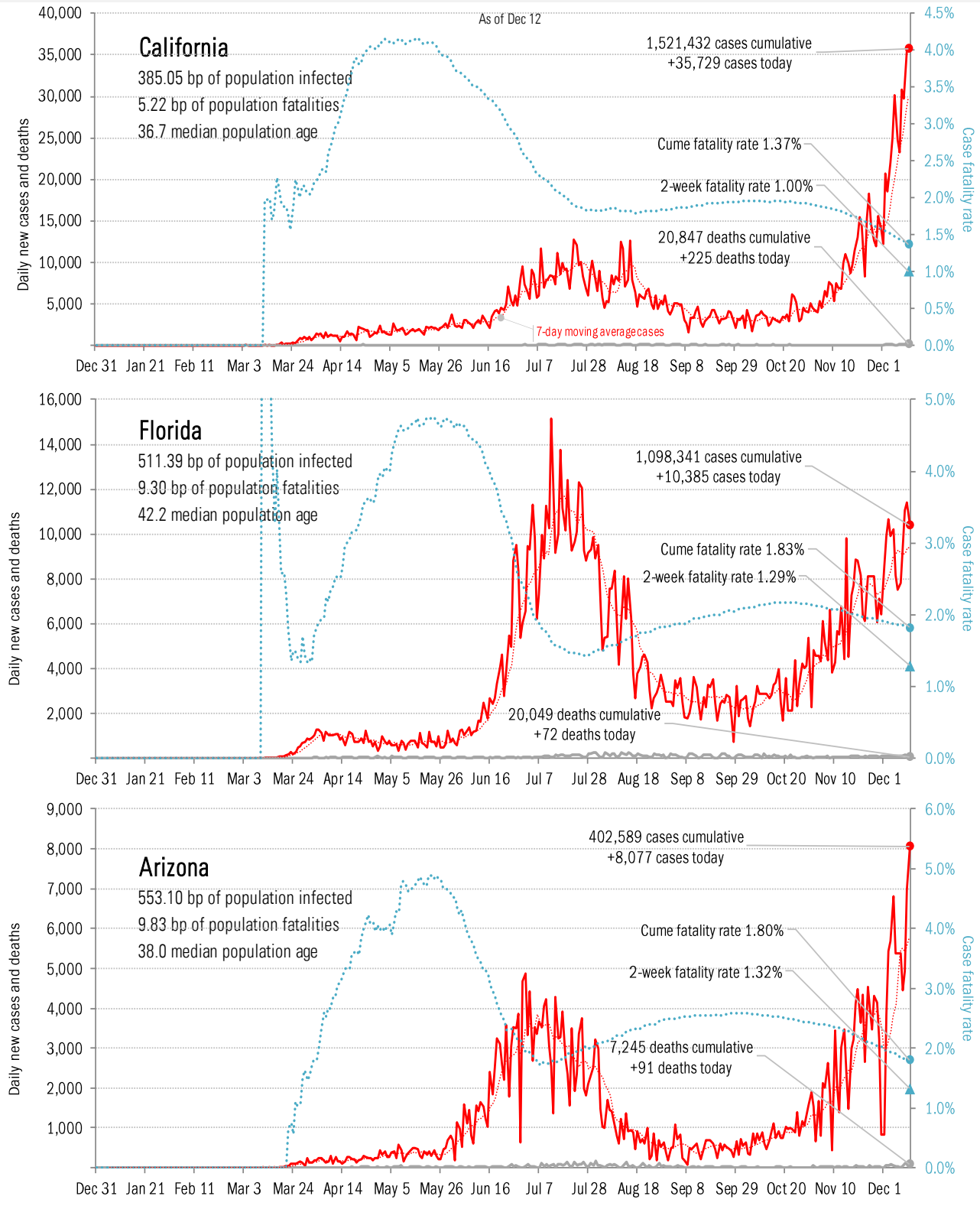
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



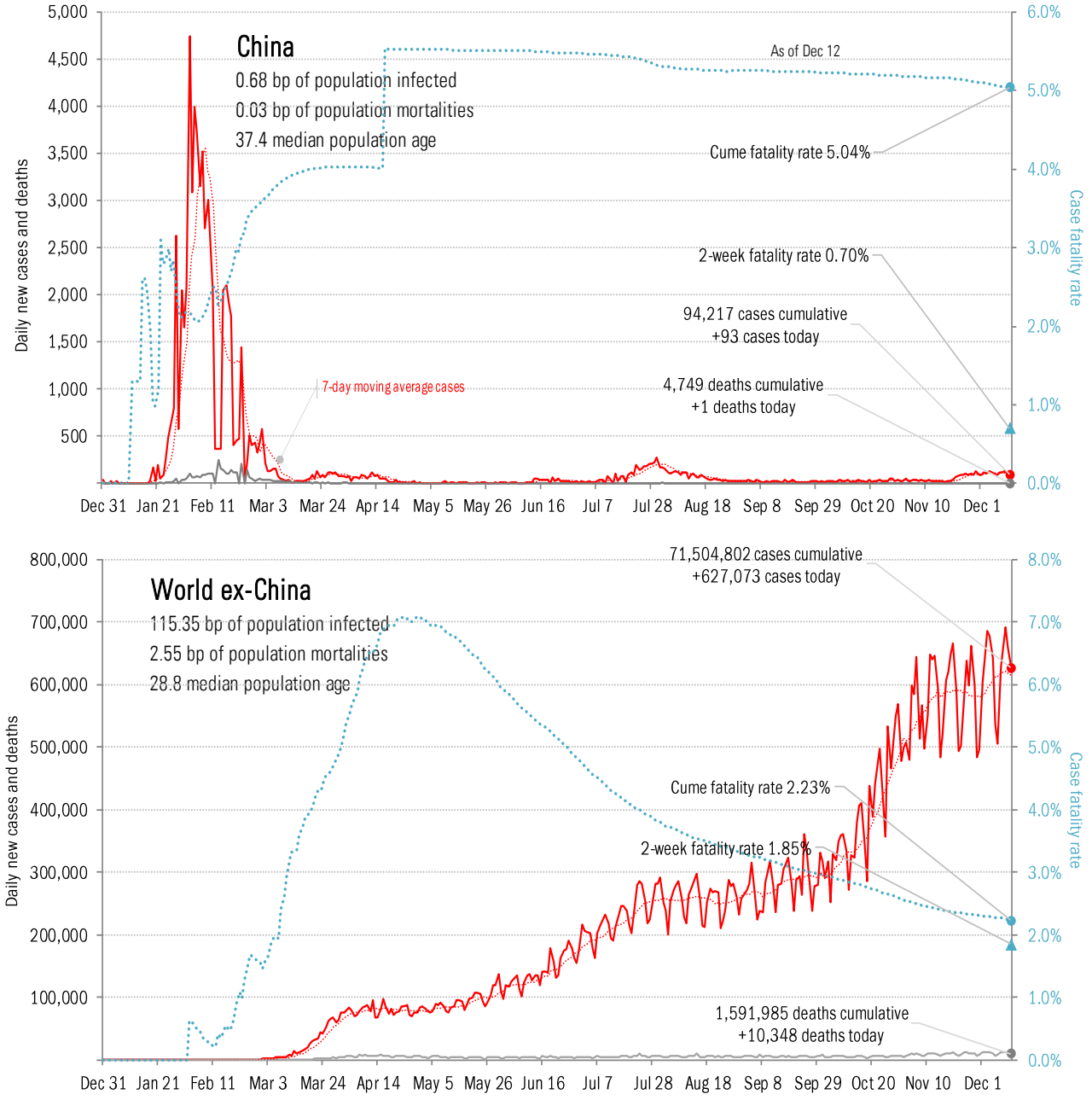
Source: Covid Tracking Project,, TrendMacro calculations

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



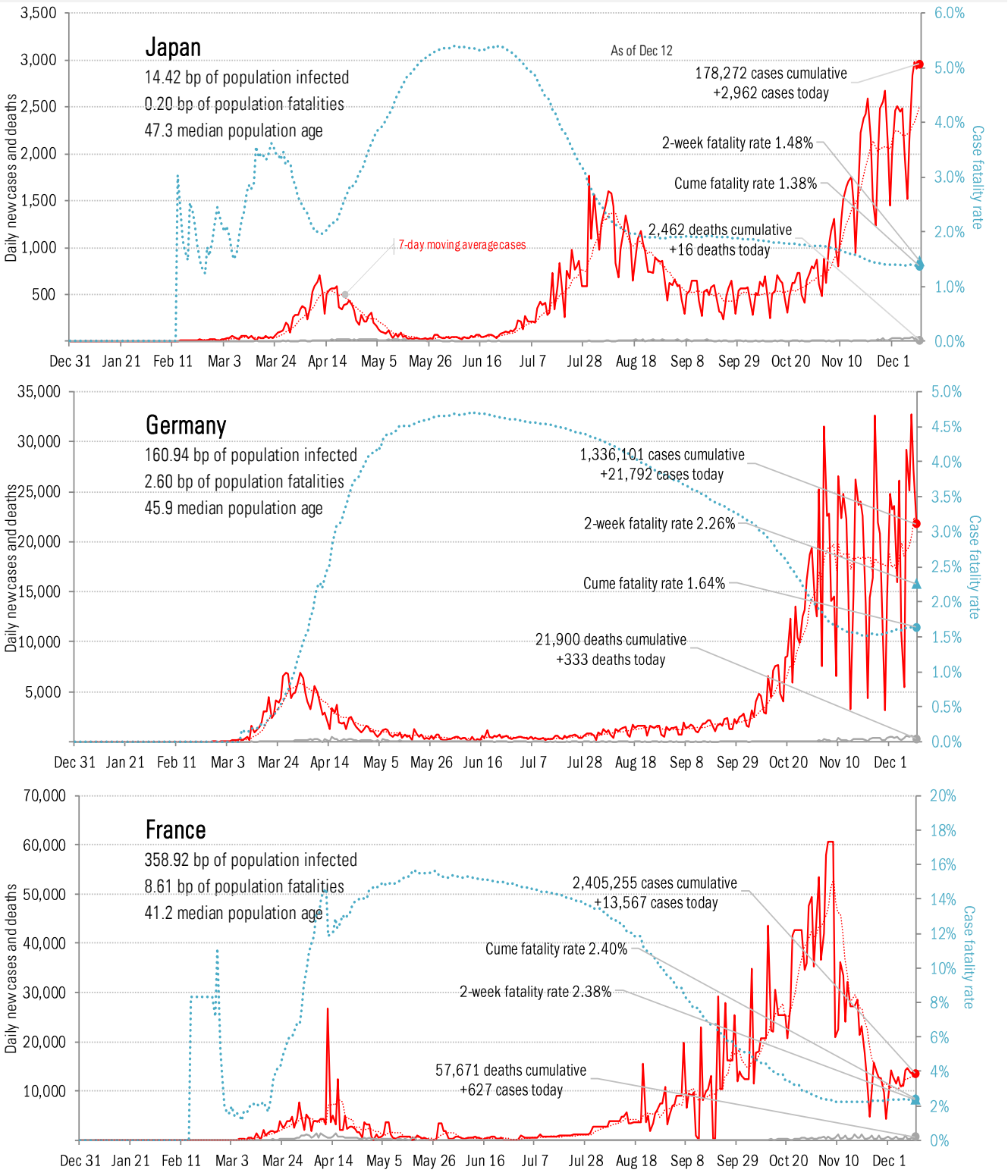
Source: Covid Tracking Project,, TrendMacro calculations

Patient zero… and then everyone else



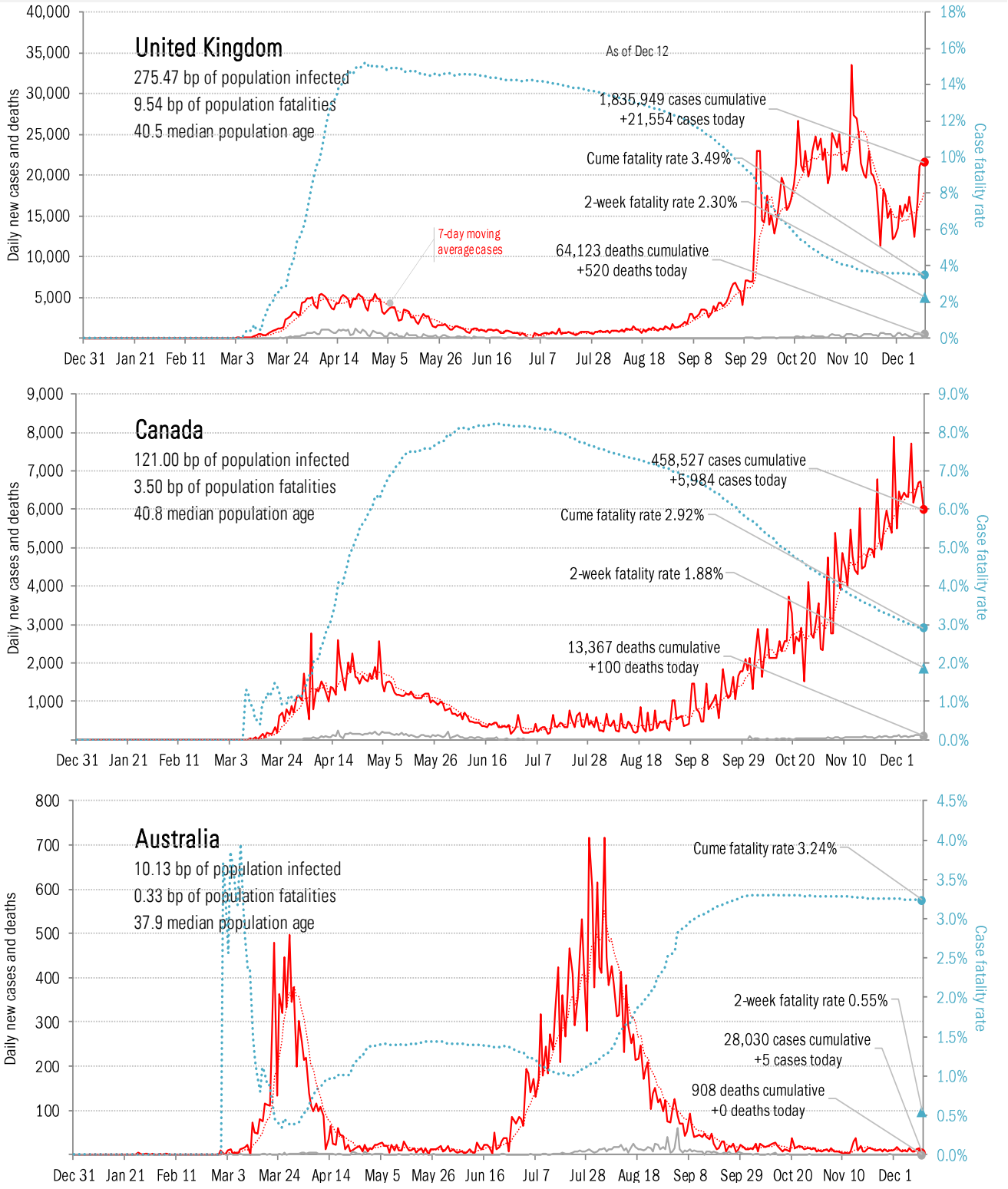
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



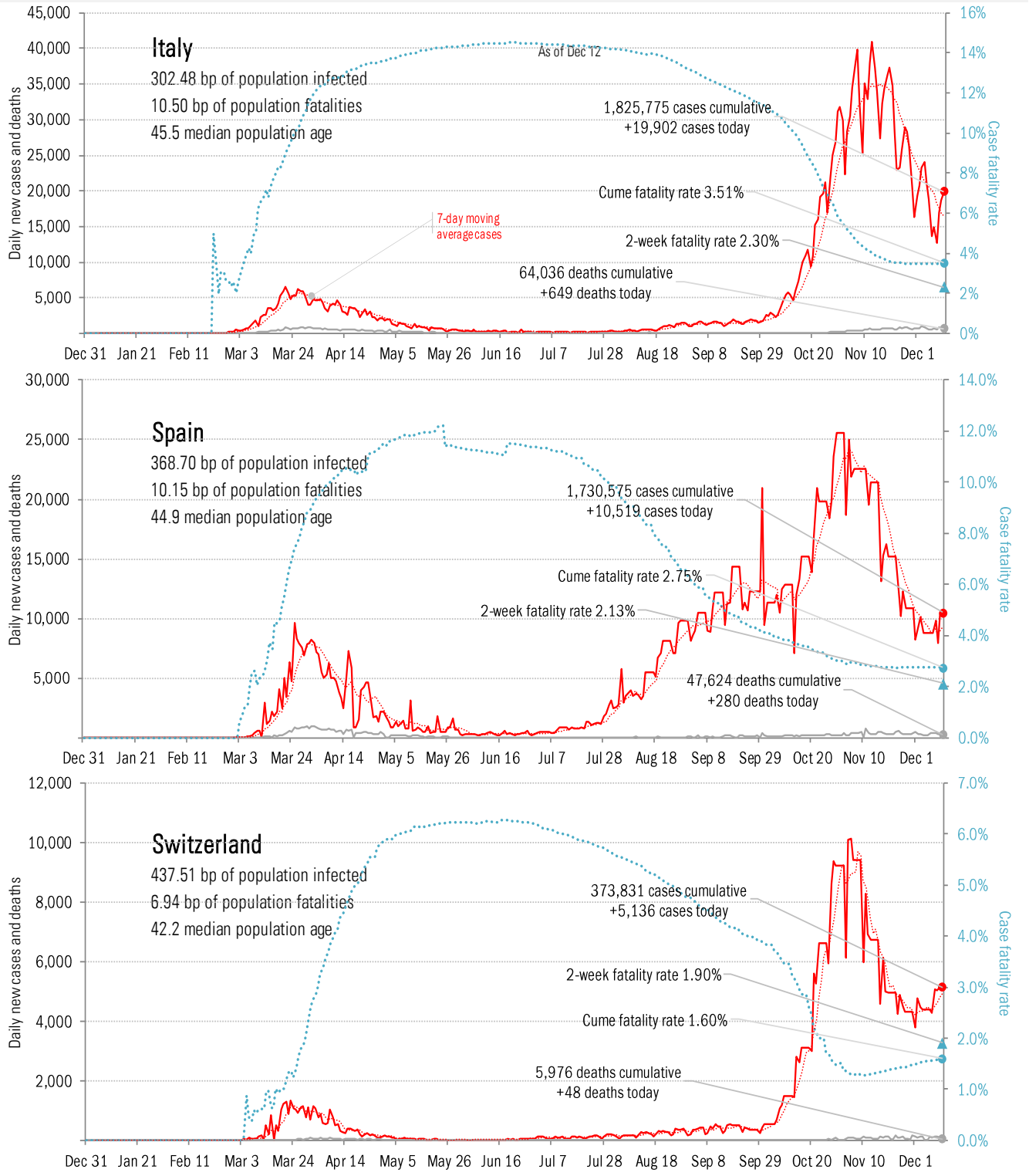
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



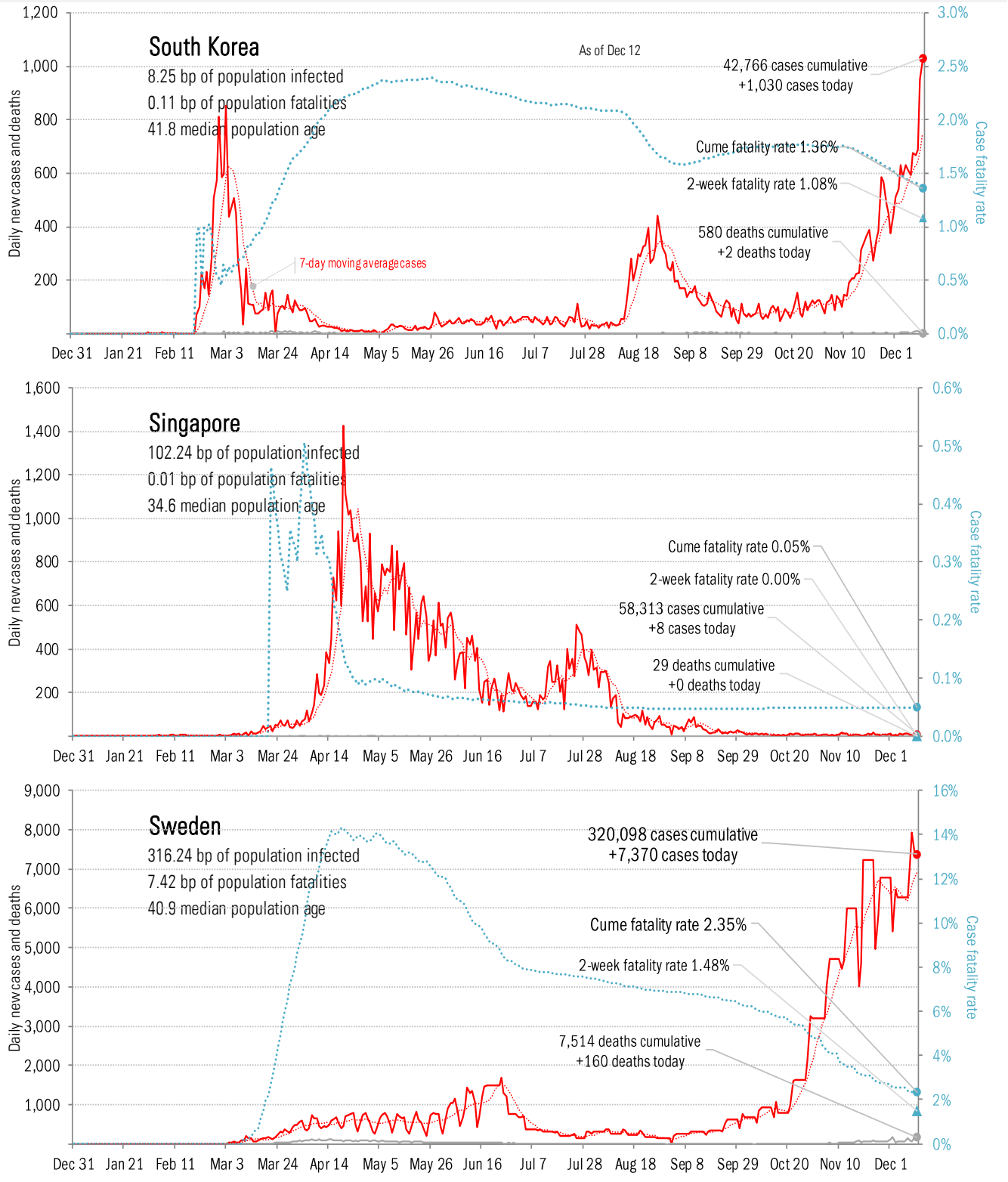
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



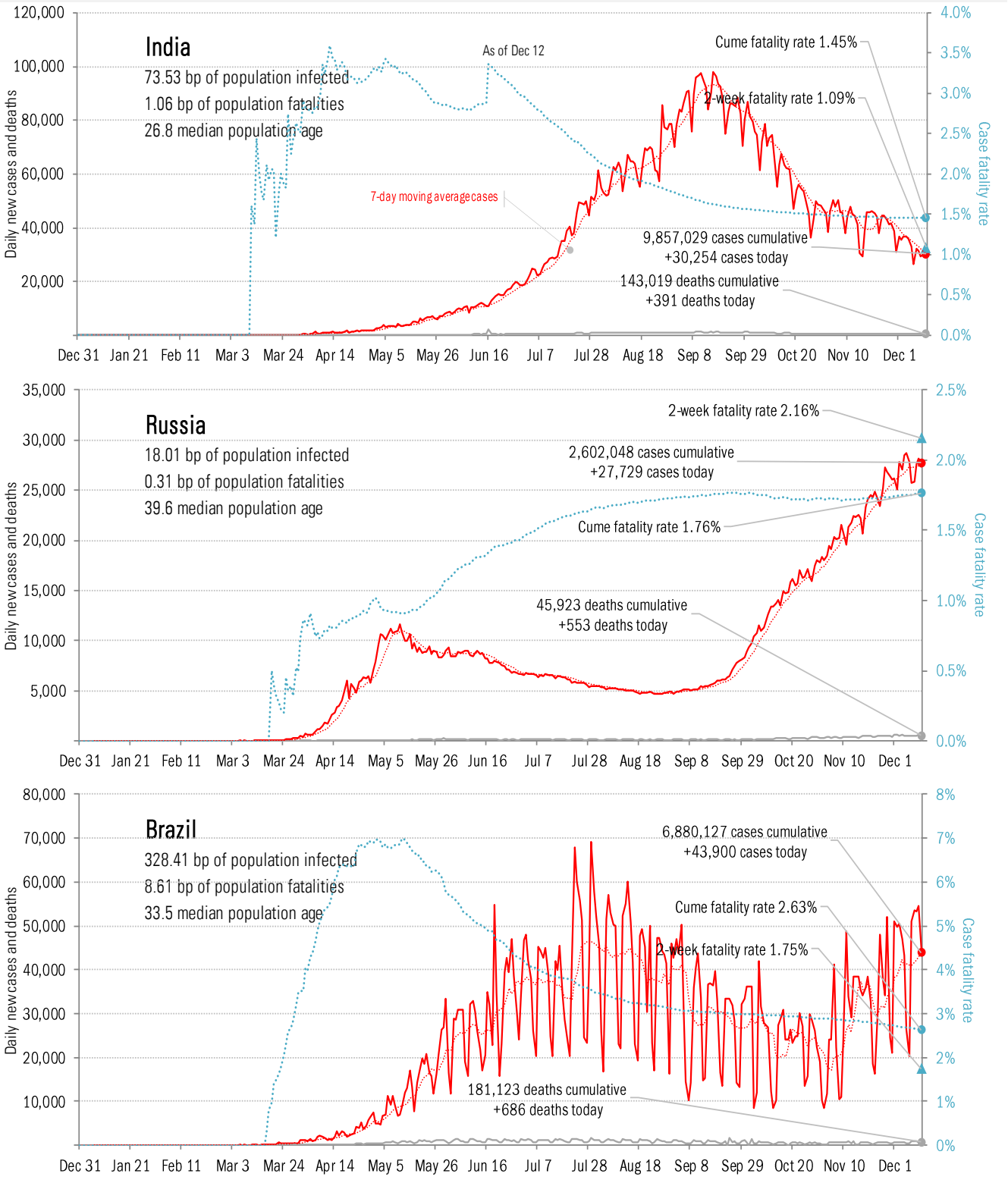
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



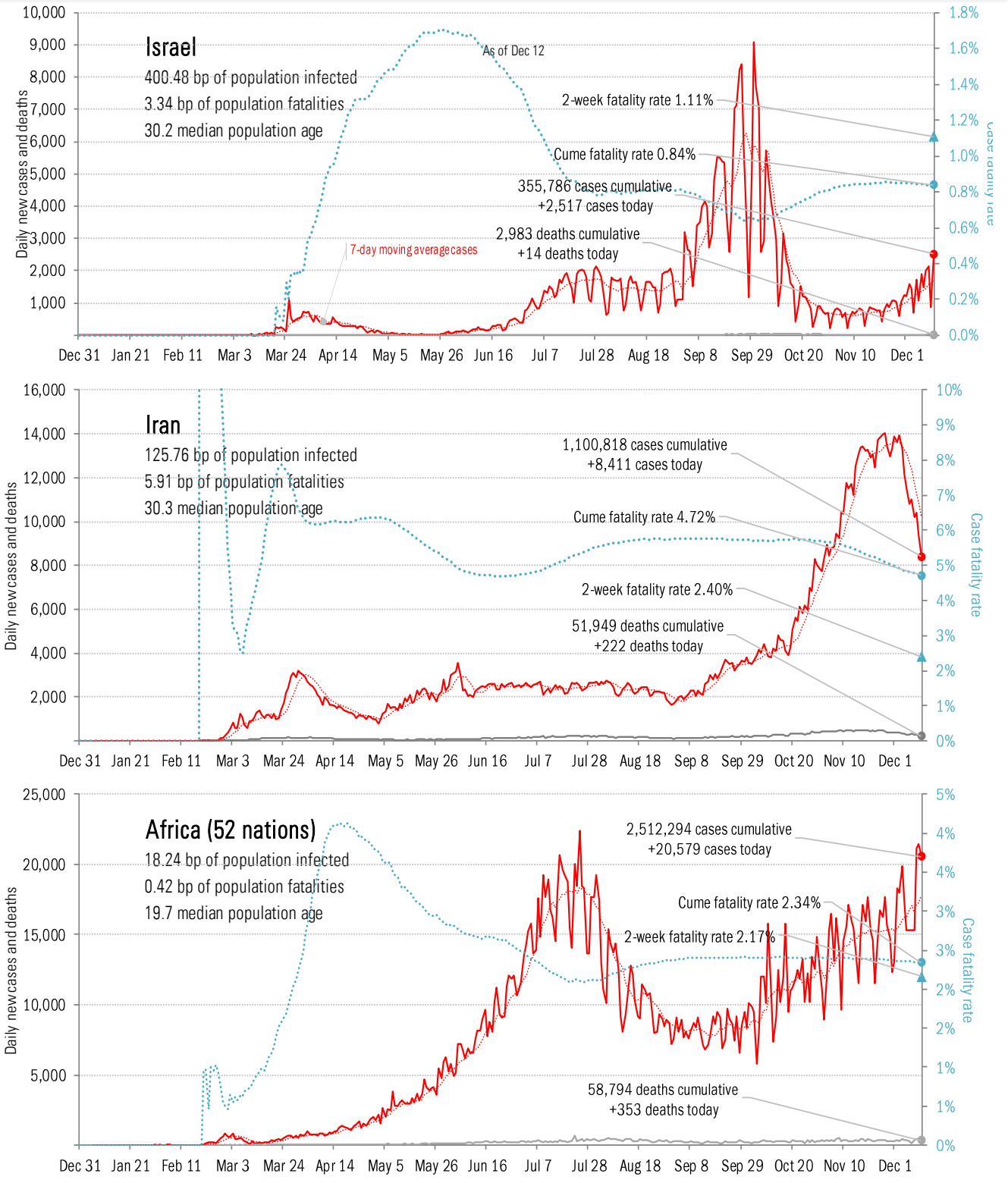
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations