Trend Macrolytics, LLC
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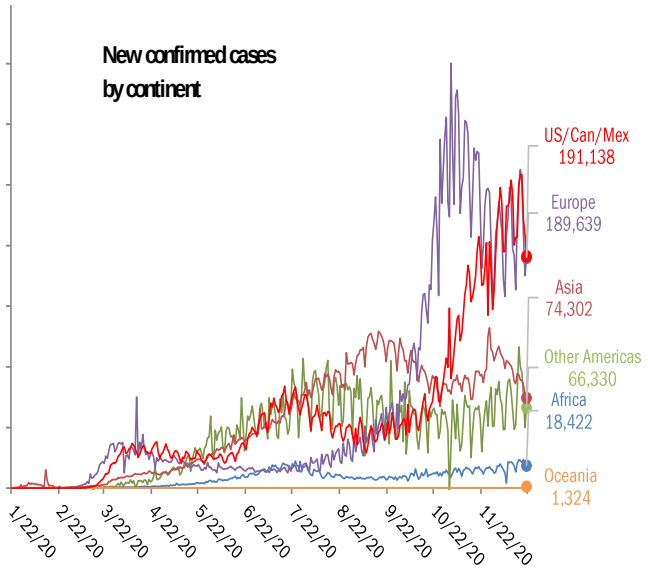
Data Insights: Covid-2019 Monitor

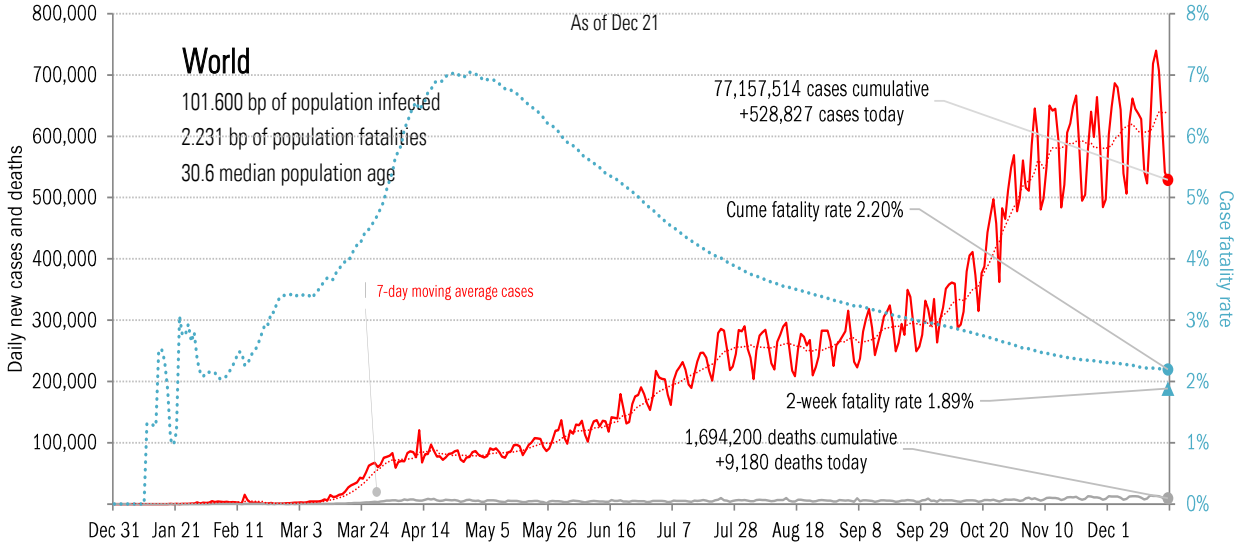
Tuesday, December 22, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+178,191	United States	+1,485
United Kingdom	+33,517	Germany	+710
Russia	+28,917	Brazil	+527
Brazil	+25,019	Russia	+481
Spain	+22,013	Italy	+415
India	+19,556	Mexico	+396
Germany	+19,256	France	+354
Turkey	+19,103	Spain	+334
Netherlands	+11,218	India	+301
Italy	+10,869	Turkey	+254
	+367,659		+5,257
World	+528,827	World	+9,180
Top ten	70%	Top ten	57%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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The US scorecard

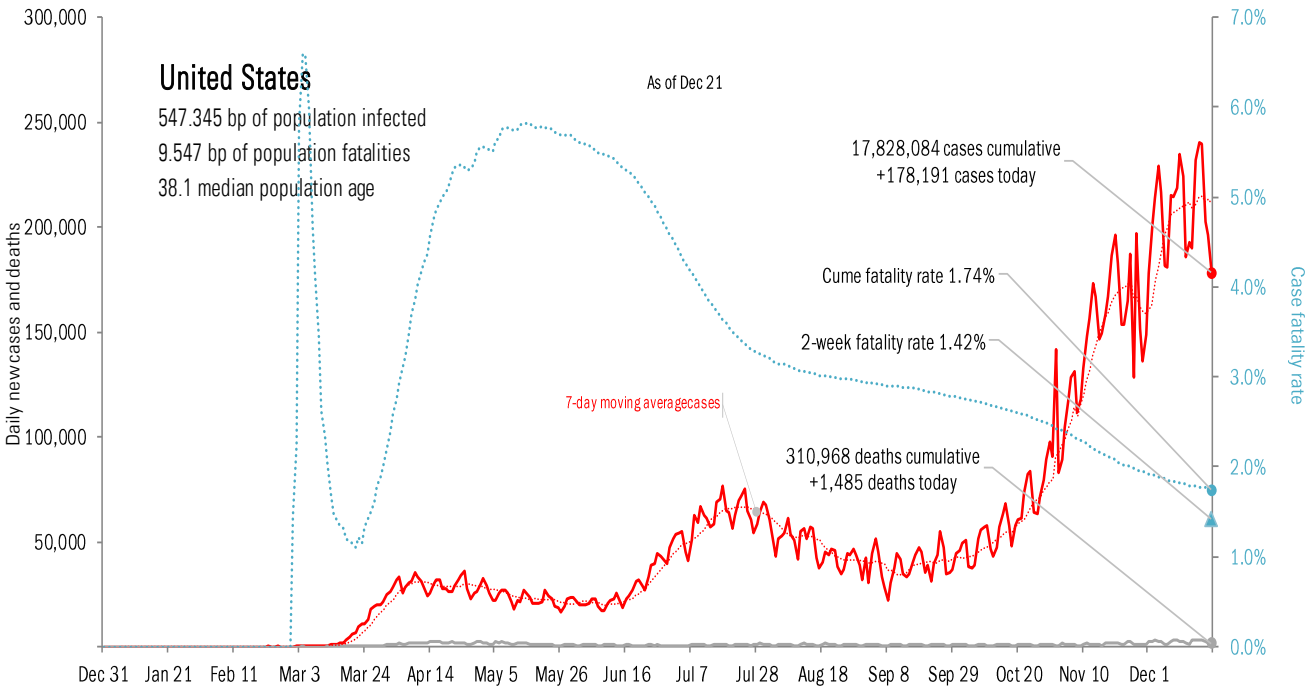
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	+37,892	IL	+120	CA	+609	CA	1,892,348	NY	28,709	NY	89,995	RI	90%	NM	96%
FL	+10,907	FL	+115	FL	+277	TX	1,591,948	TX	25,415	FL	60,953	GA	82%	AL	90%
TX	+10,280	NY	+111	AL	+189	FL	1,192,456	CA	22,676	NJ	45,284	SC	81%	GA	89%
TN	+9,891	KS	+107	GA	+173	IL	905,069	FL	20,976	GA	39,502	MD	81%	NV	89%
NY	+9,007	CT	+95	TX	+153	NY	857,049	NJ	18,223	OH	35,048	DC	81%	RI	88%
PA	+7,887	CA	+83	NY	+146	OH	629,354	IL	16,527	AZ	33,195	NV	79%	OK	88%
AZ	+7,748	MI	+79	MA	+72	PA	563,589	PA	13,981	IN	32,710	FL	79%	MS	87%
OH	+6,548	OH	+75	NV	+72	TN	529,578	MI	12,153	AL	30,994	NC	79%	CA	85%
MI	+5,059	TX	+67	IL	+71	GA	512,699	MA	11,759	MD	24,758	CA	78%	TX	85%
IL	+4,699	LA	+65	NC	+69	MI	501,115	GA	10,399	MN	20,629	AZ	77%	MO	84%
	+109,918		+917		+1,831		9,175,205		180,818		413,068				
All states	+178,191		+1,485		+1750	All states	17,828,084		310,968		647,080	All states	73%		77%
Top ten	62%		62%		105%	Top ten	51%		58%		64%	Median	70%		74%

Some states not reporting

Five most improved US states

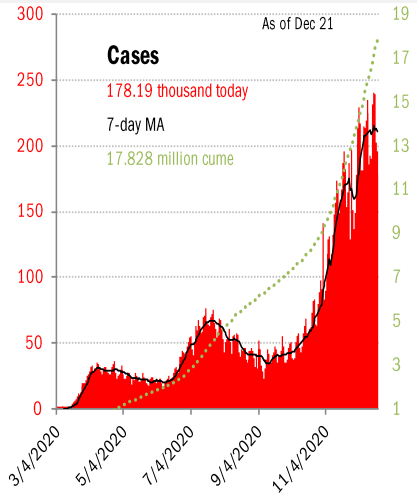
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CA	-8,582	CA	-78	MI	-105	NC	+38,215
TN	-6,145	IA	-56	MN	-104	TX	+10,053
IN	-2,618	TX	-55	MO	-64	PA	+9,211
LA	-2,595	MN	-48	KS	-58	IN	+8,280
NC	-2,421	TN	-46	RI	-30	OH	+6,912

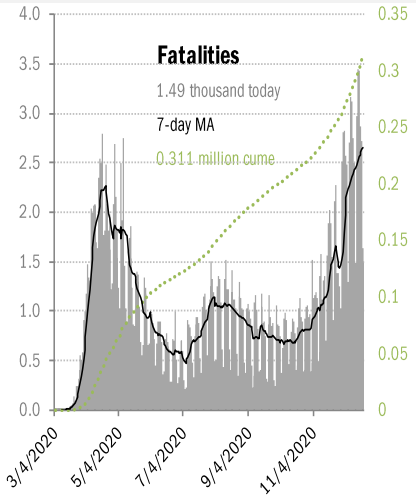


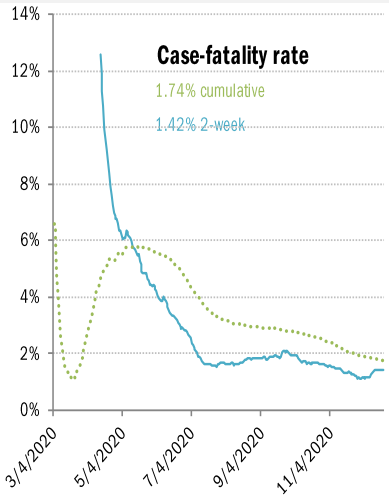
Source: Covid Tracking Project, Dept. of Health and Human Services, TrendMacro calculations

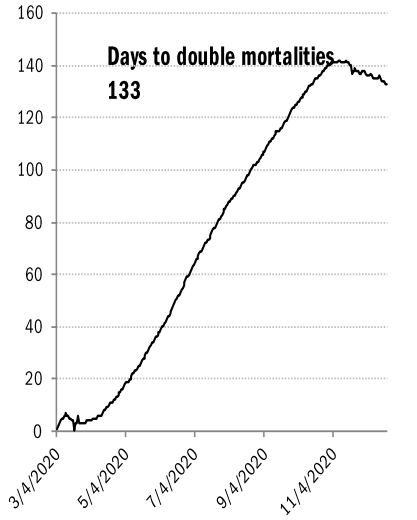
US deep-dive

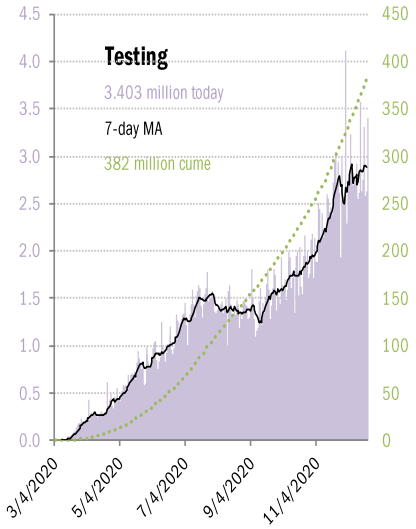
National and state-by-state data do not line up because of different sources

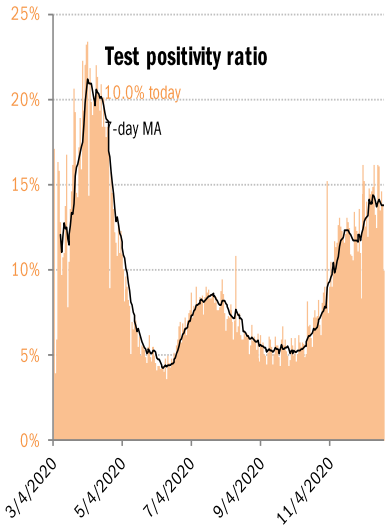


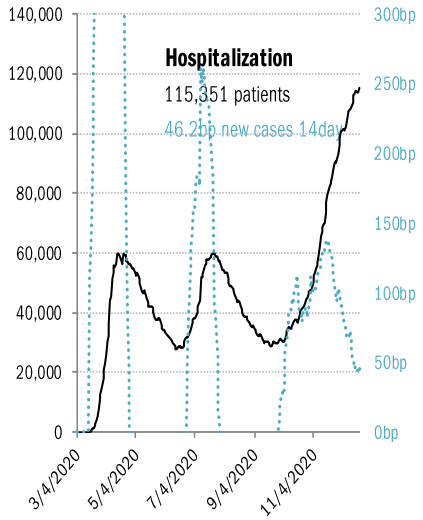


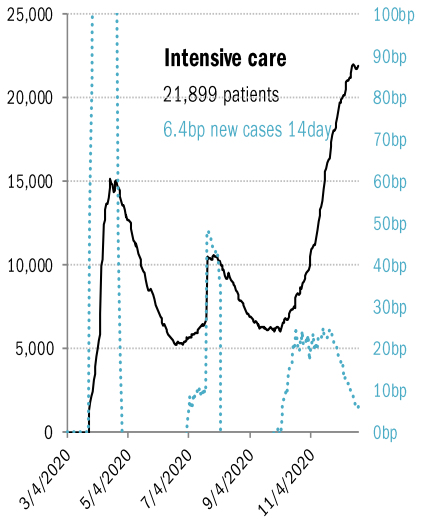


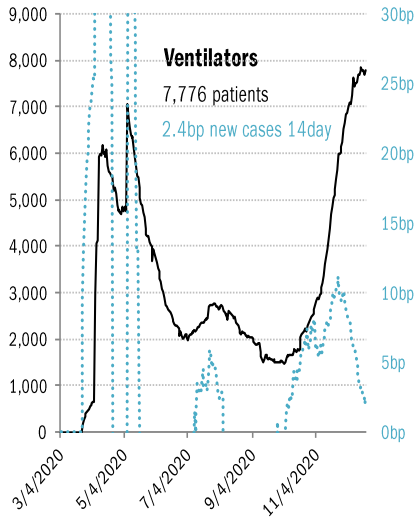






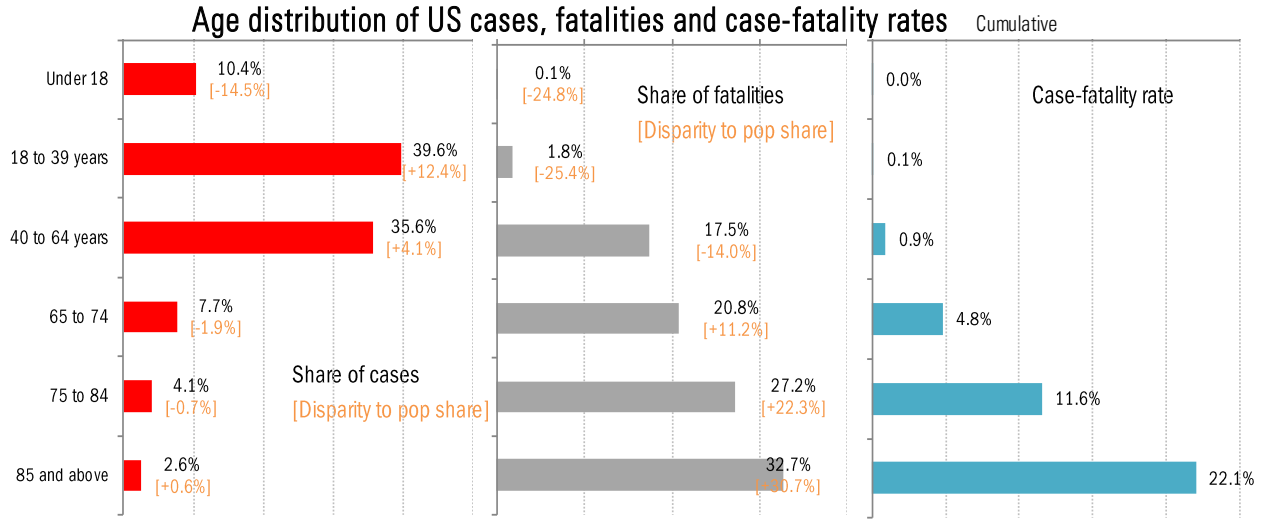


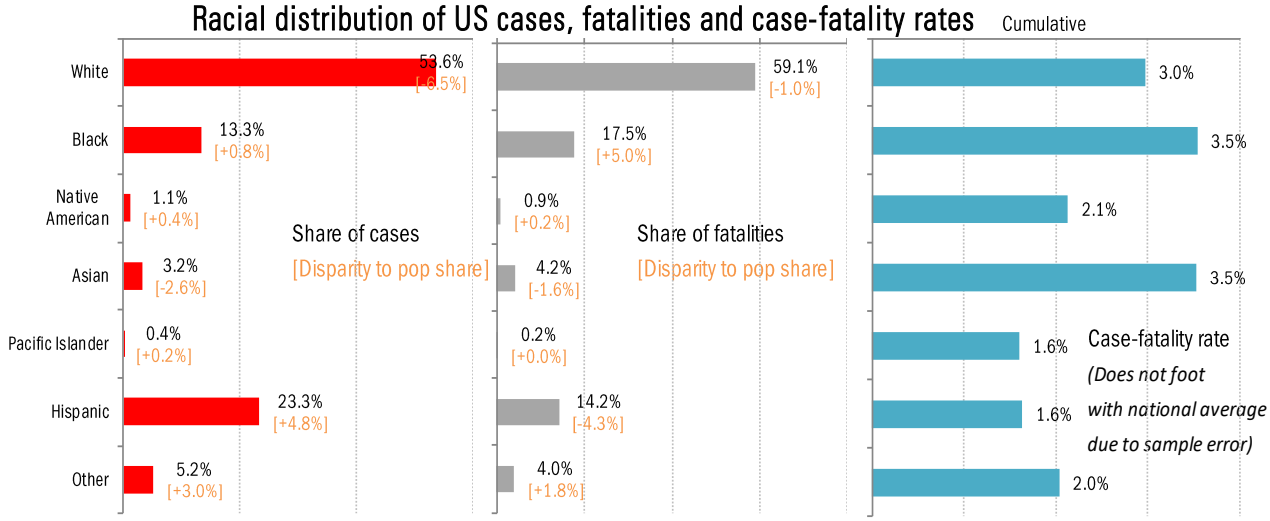


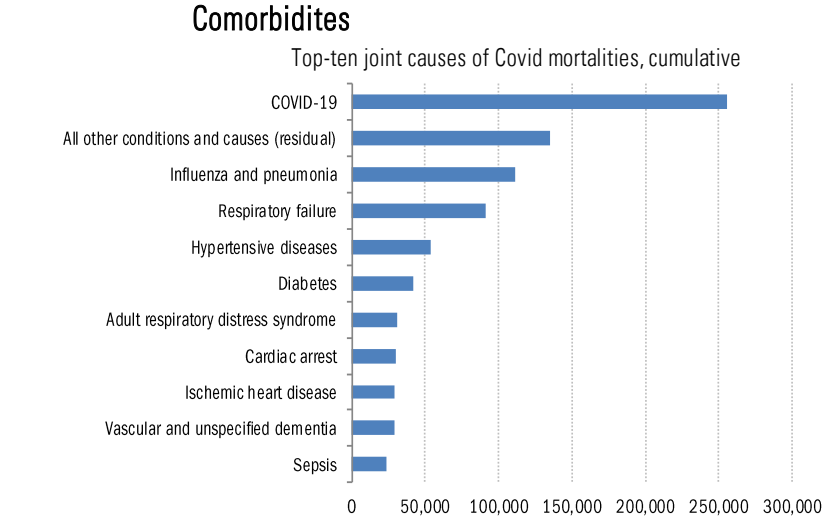


Source: Covid Tracking Project, TrendMacro calculations

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

BioNTech's co-founder says there is no evidence its vaccine would not work on the new virus variant.
New York Times
December 22, 2020

A Pandemic of Misinformation
Scott Atlas
Wall Street Journal
December 21, 2020

The Economic Effects of Pandemic Unemployment Programs: An Update
Casey B. Mulligan
Committee to Unleash Prosperity
November 2020

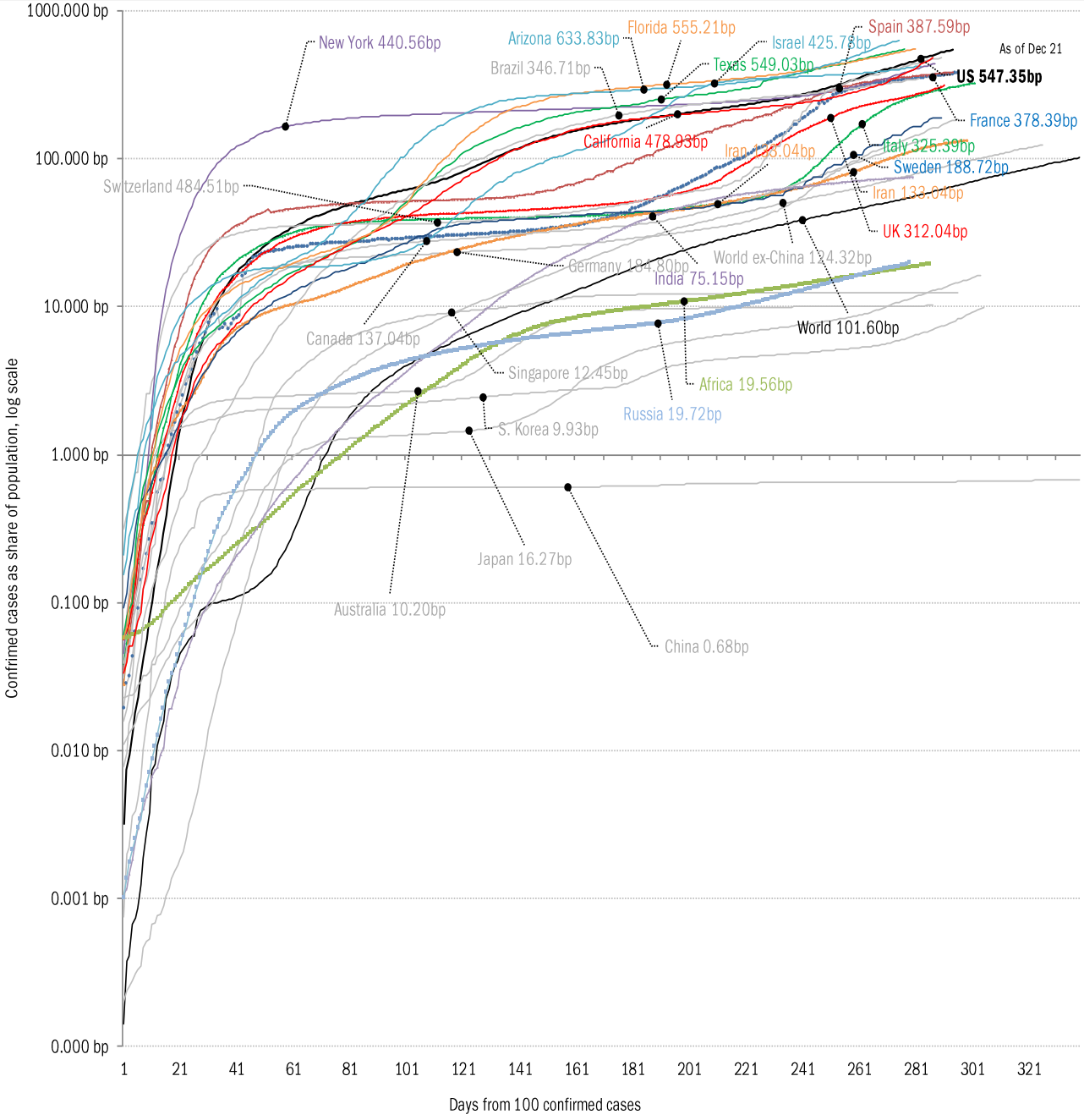
Horowitz: Comprehensive analysis of 50 states shows greater spread with mask mandates
Daniel Horowitz
The Blaze
December 21, 2020

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

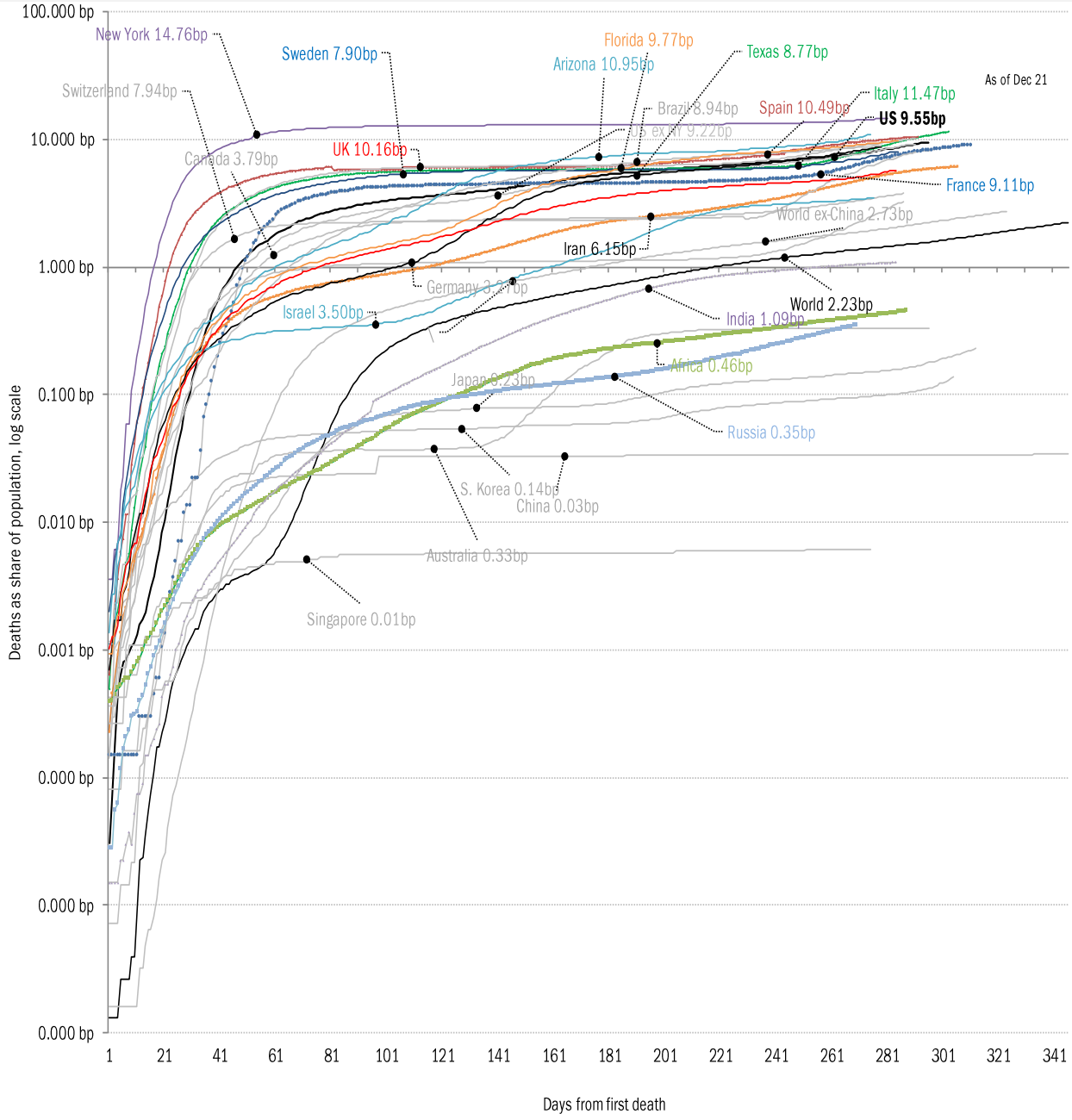
Share of infected population from first day with 100 confirmed cases, log scale



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

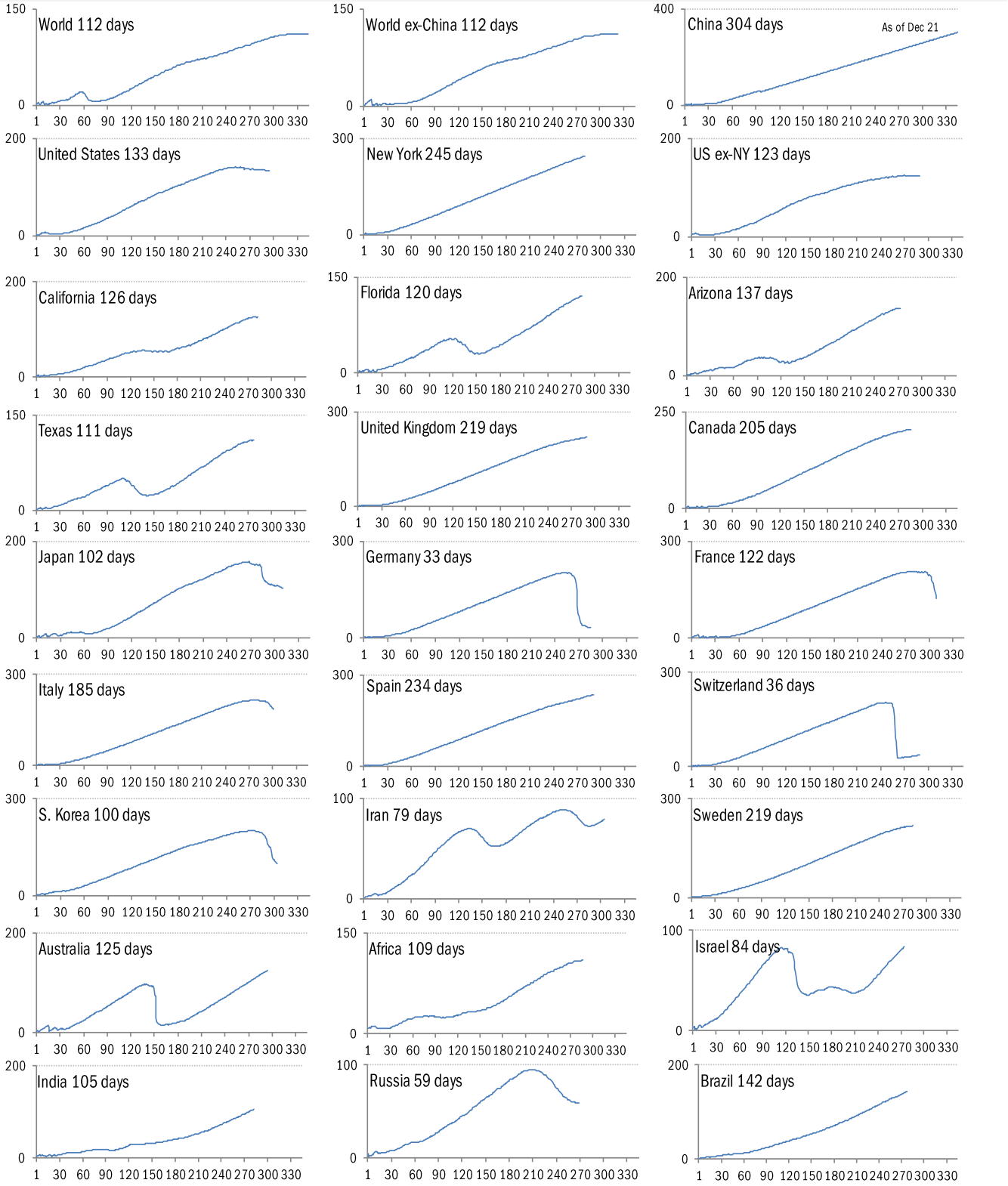


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

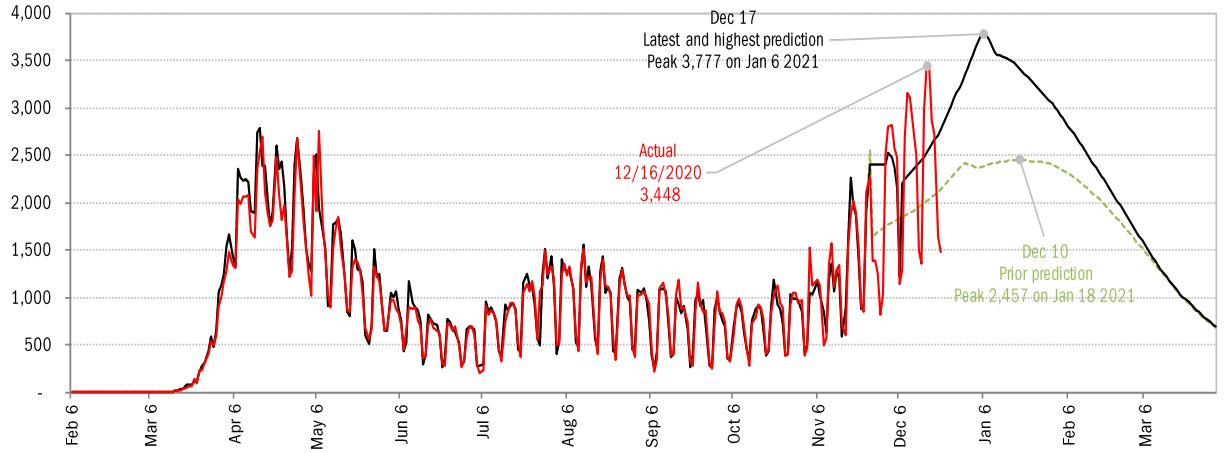
Downward trajectory Five best Upward trajectory Five worst

Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

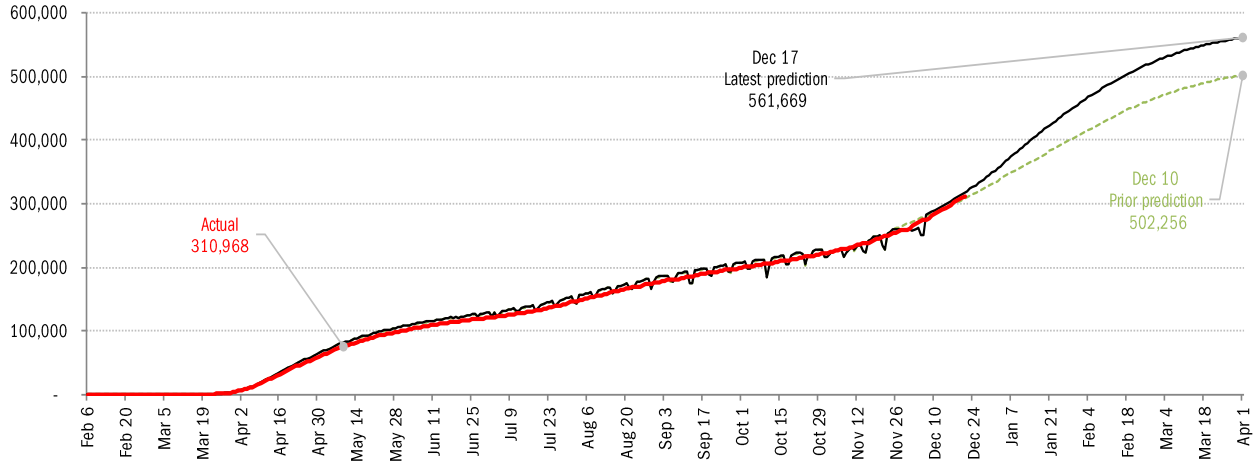
New daily fatalities As of Dec 21

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

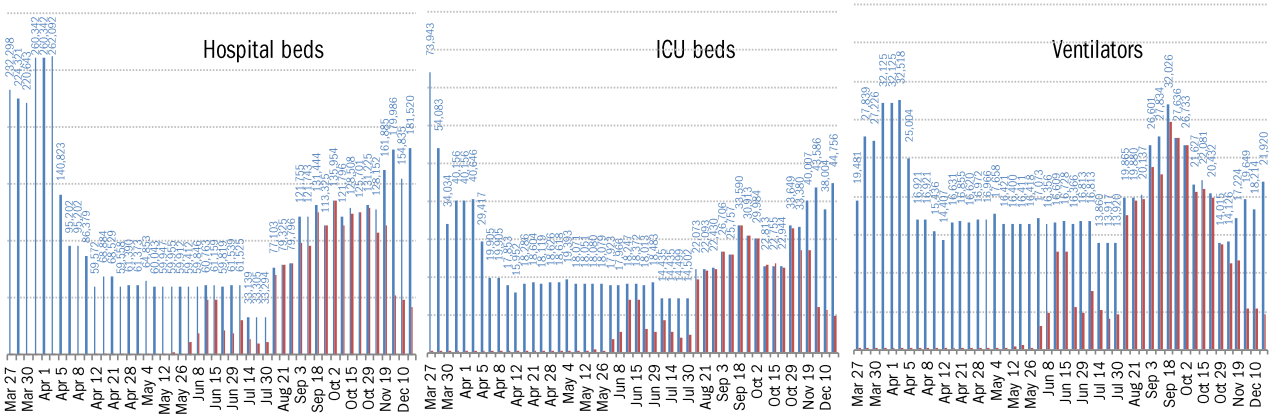


Cumulative fatalities

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

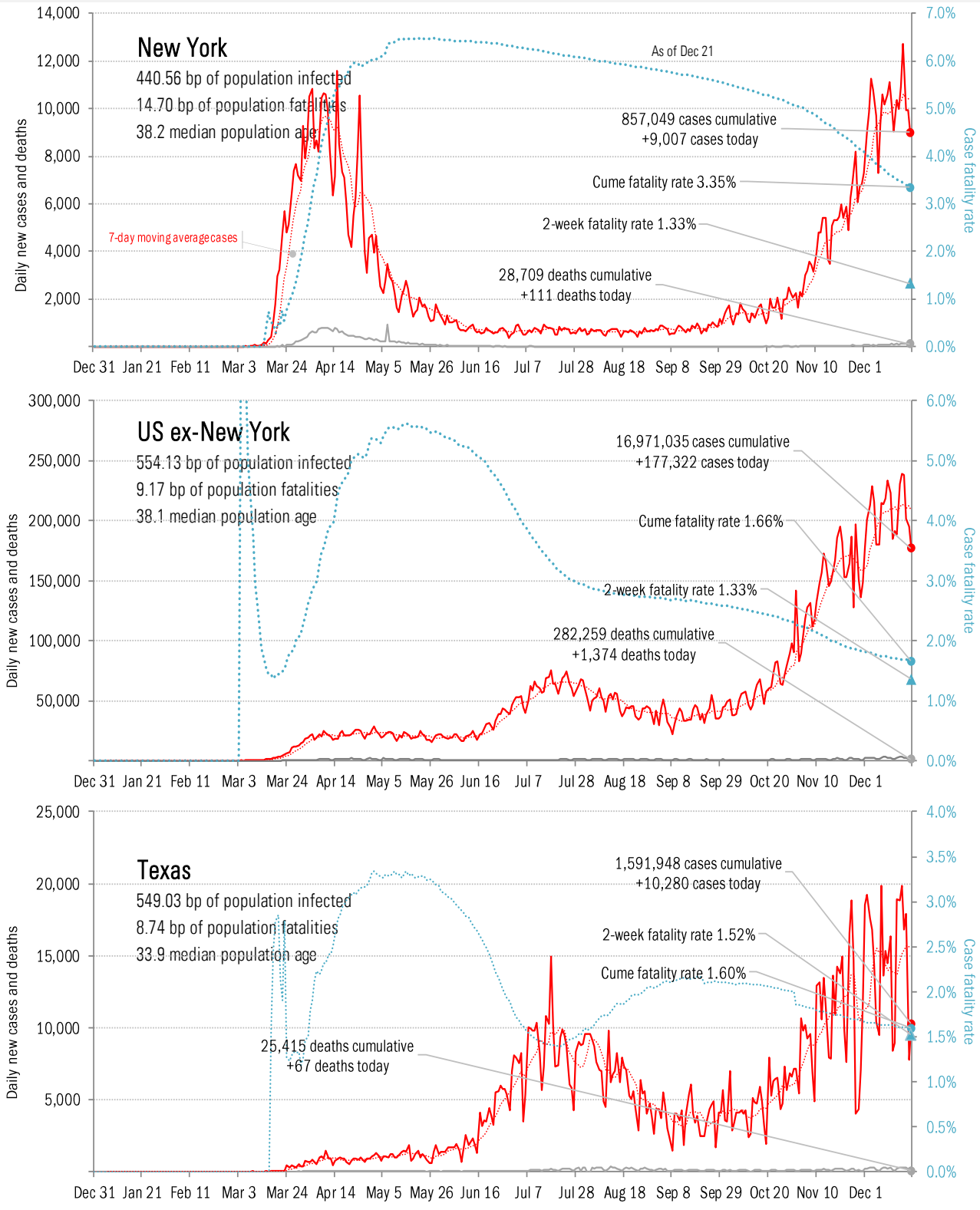


Healthcare system stress, peak and ultimate estimated at each model revision



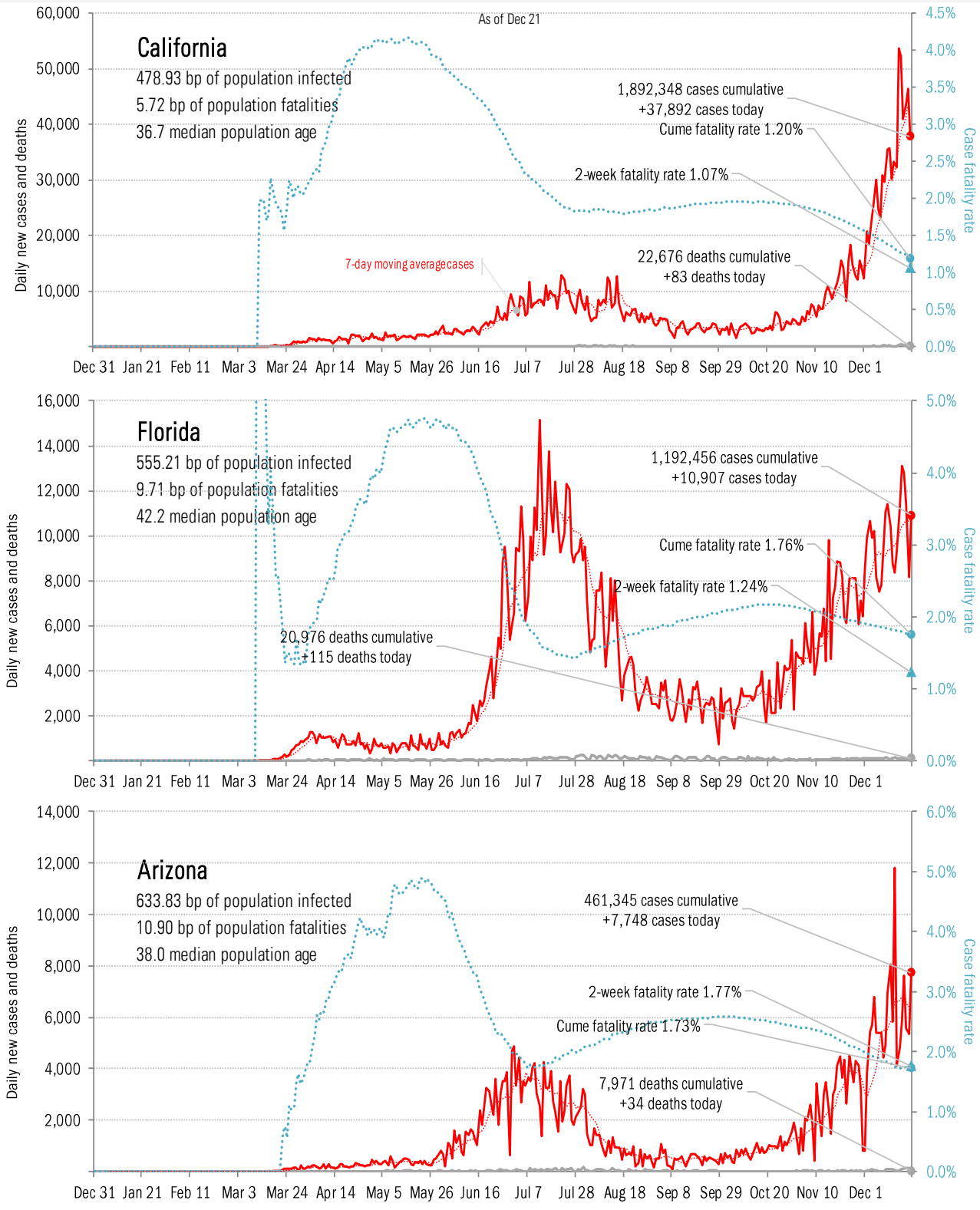
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



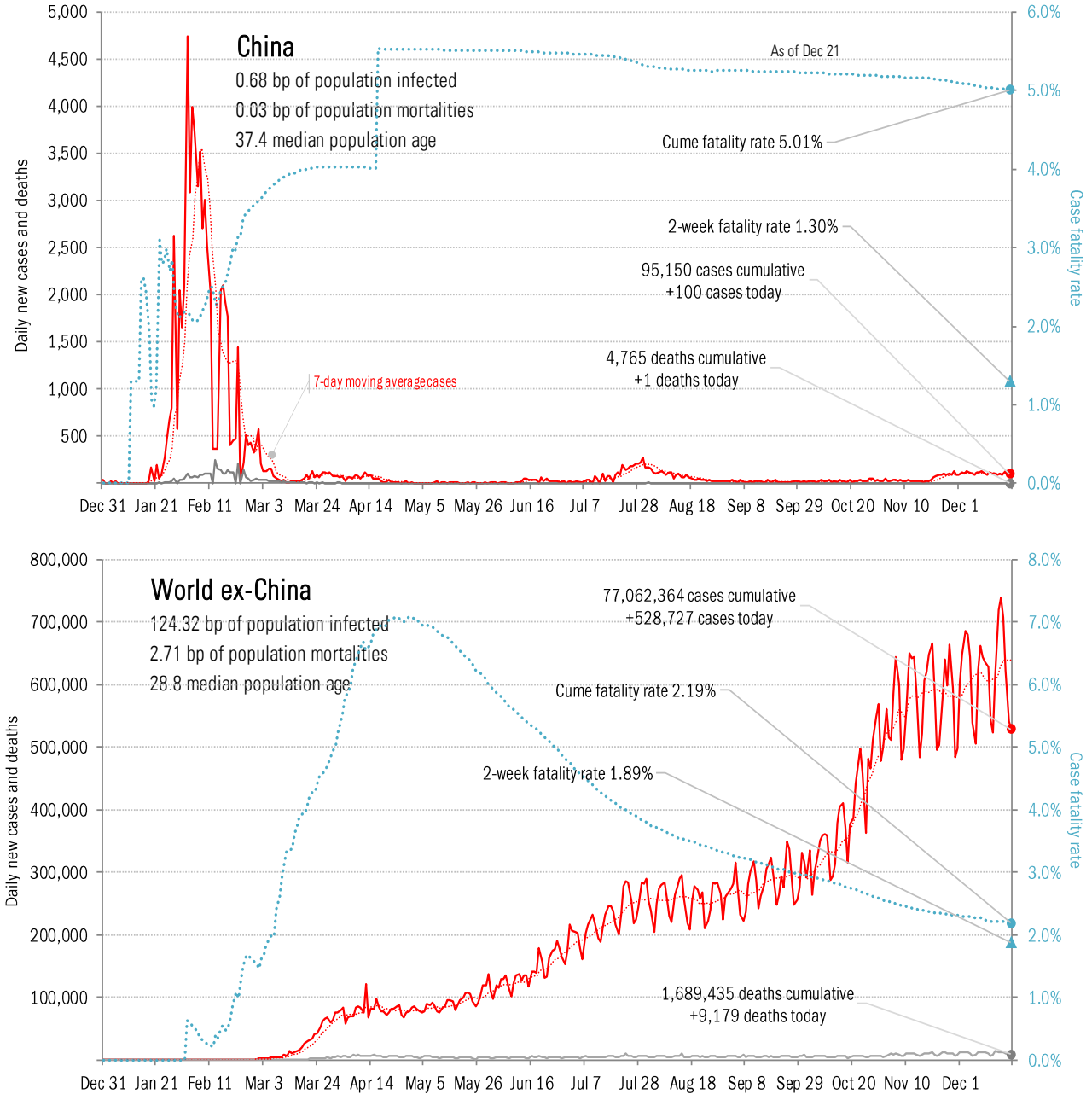
Source: Covid Tracking Project,, TrendMacro calculations

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



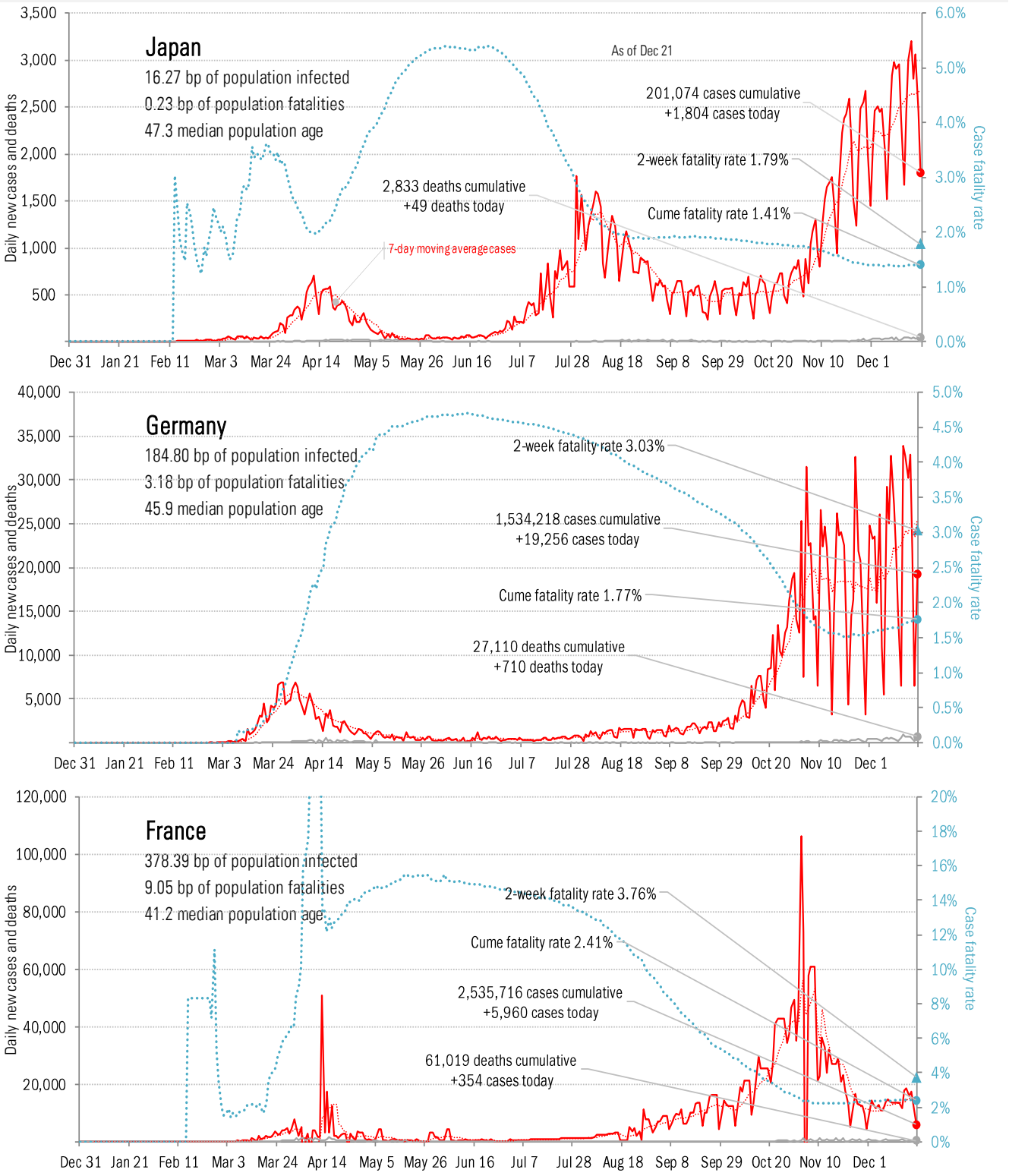
Source: Covid Tracking Project,, TrendMacro calculations

Patient zero… and then everyone else



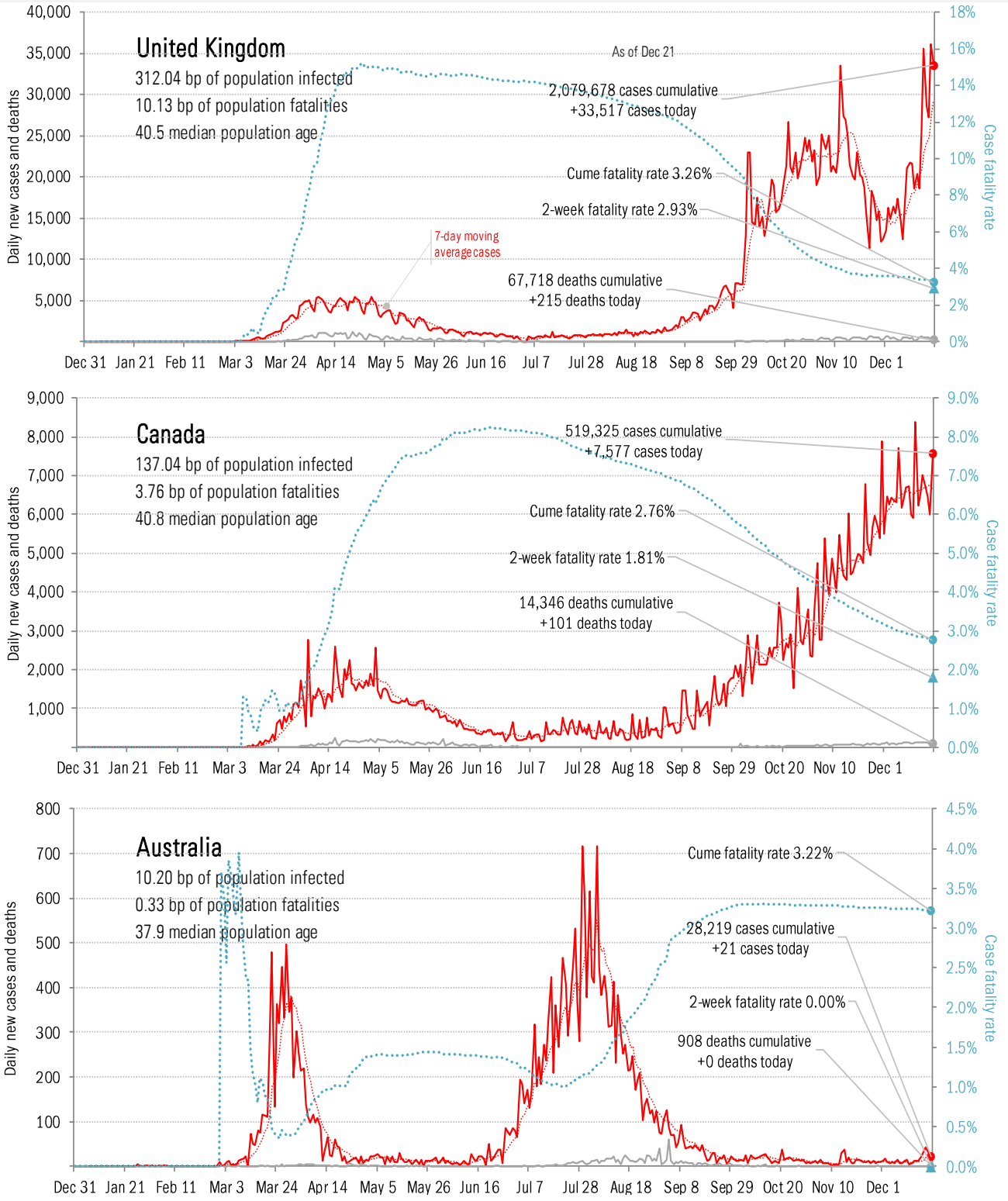
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



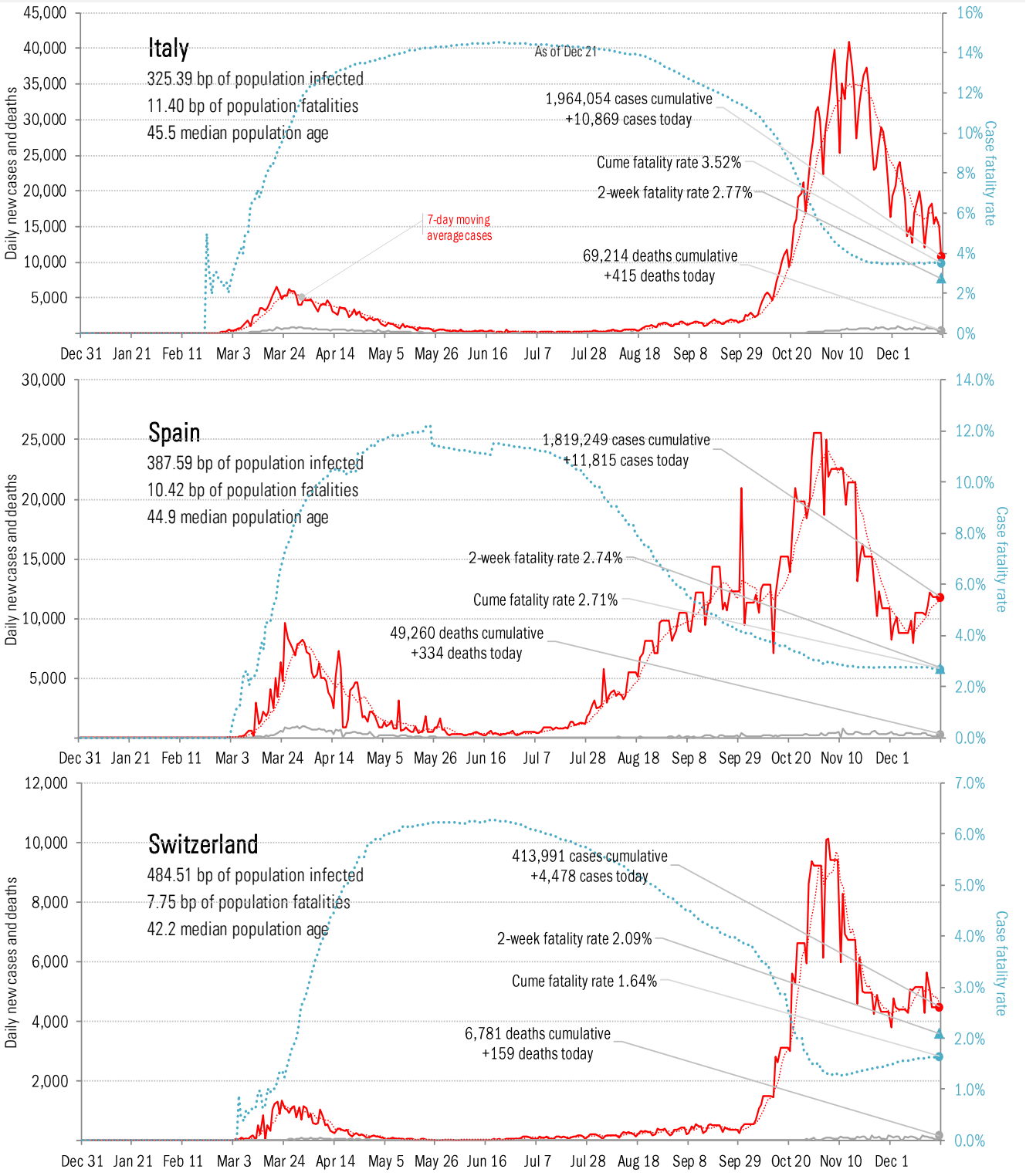
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



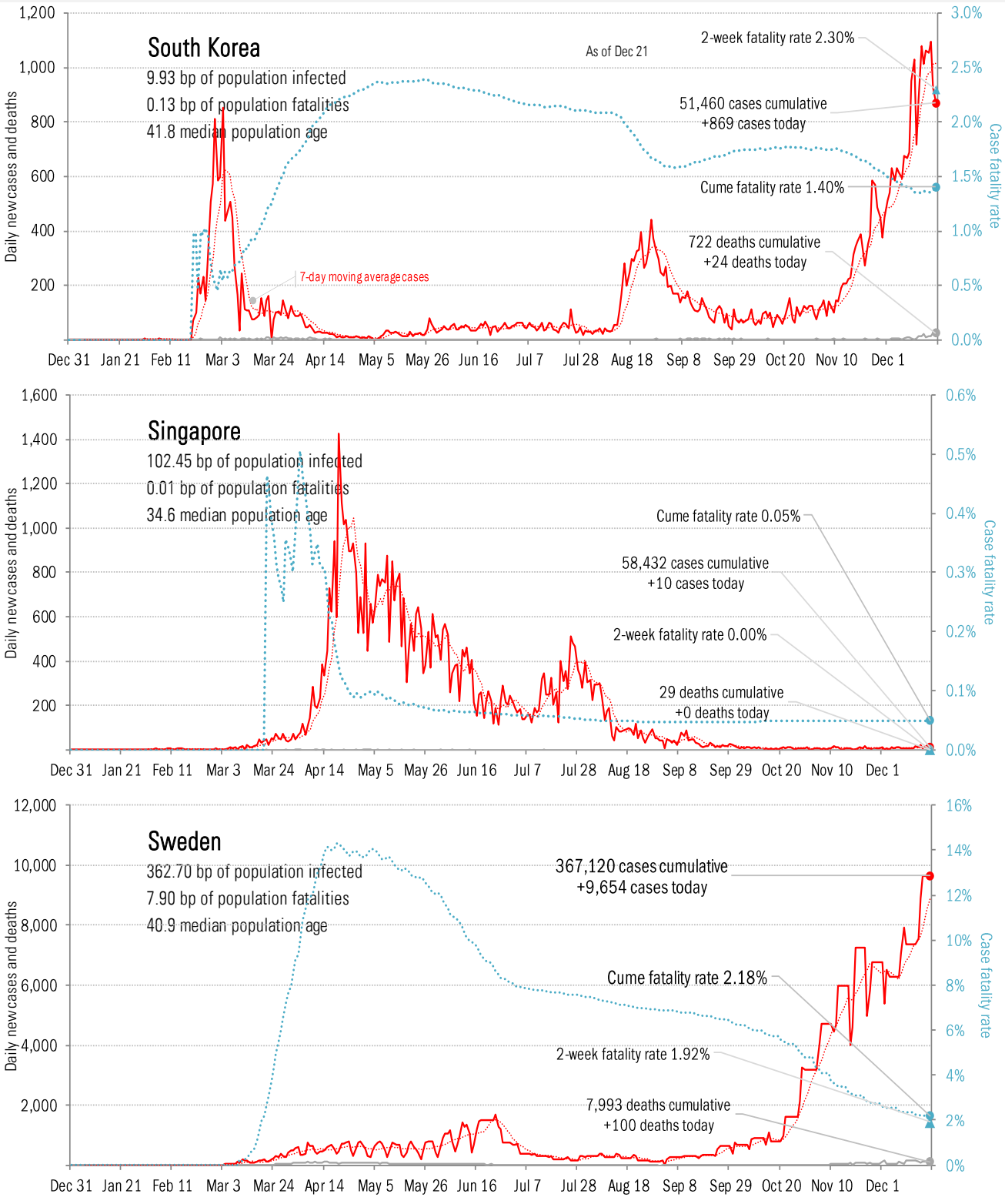
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



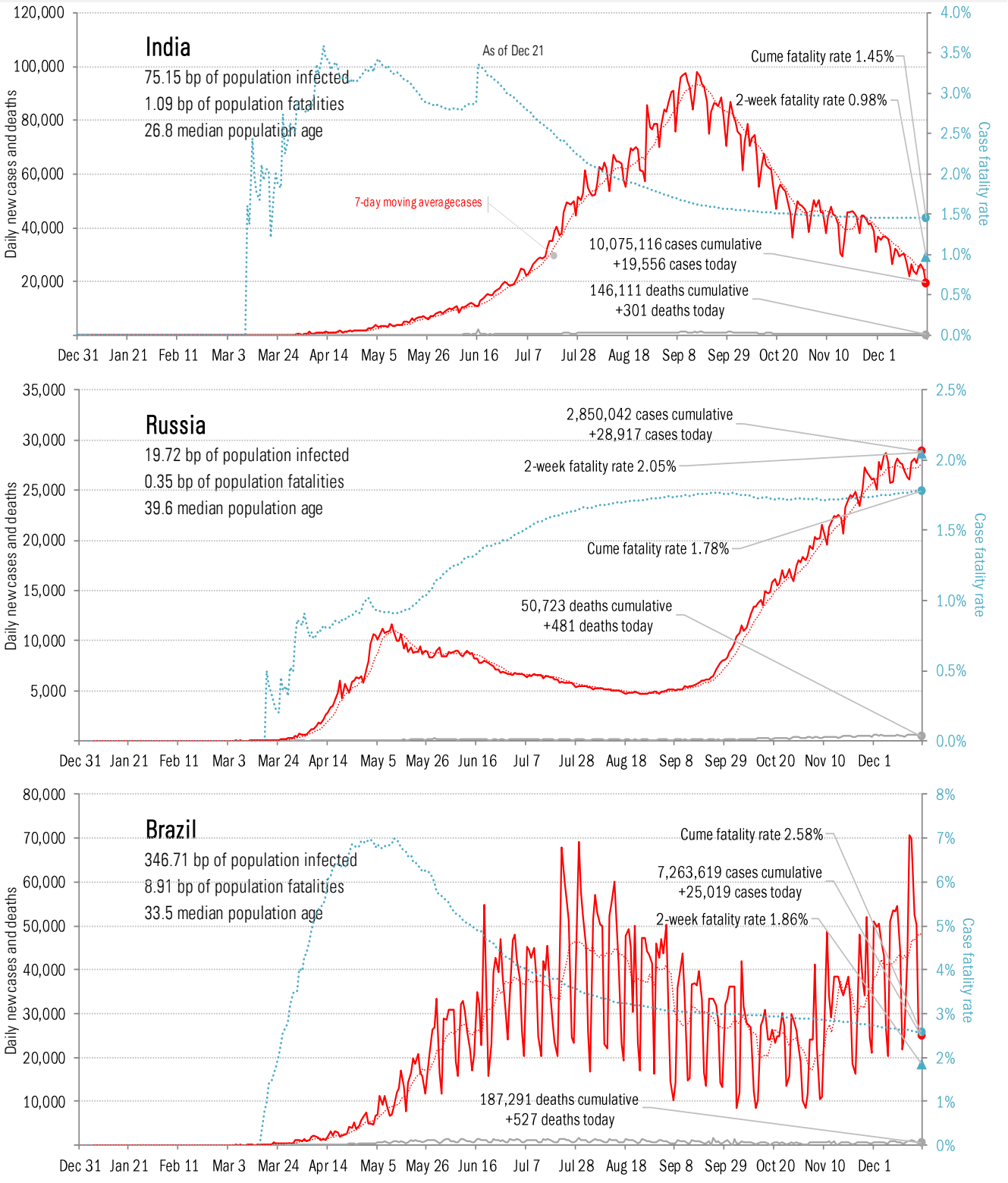
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



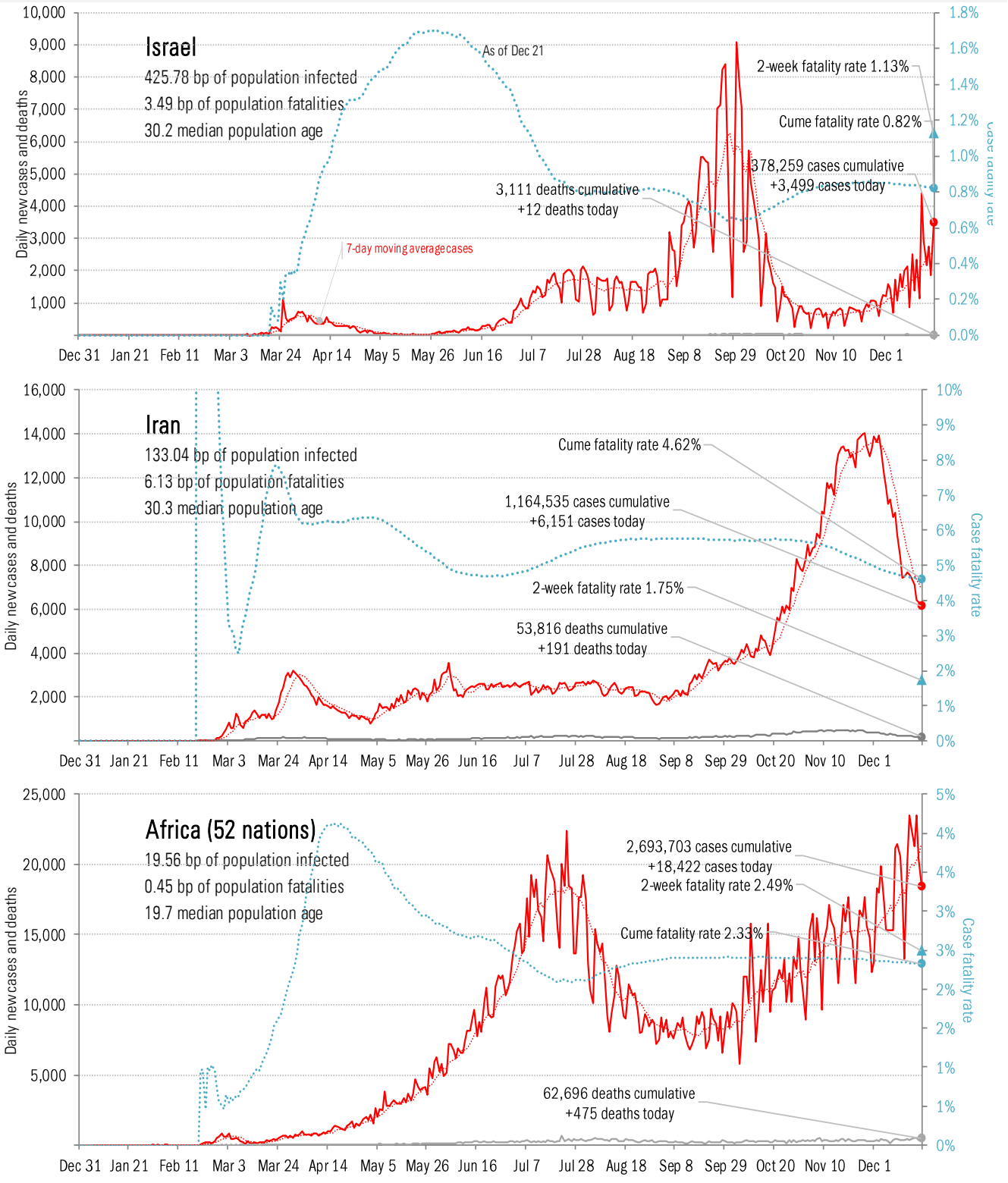
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations