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

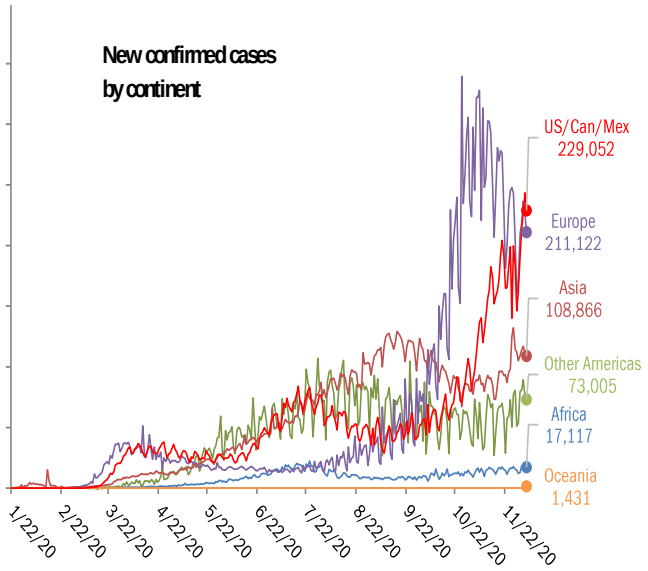
Data Insights: Covid-2019 Monitor

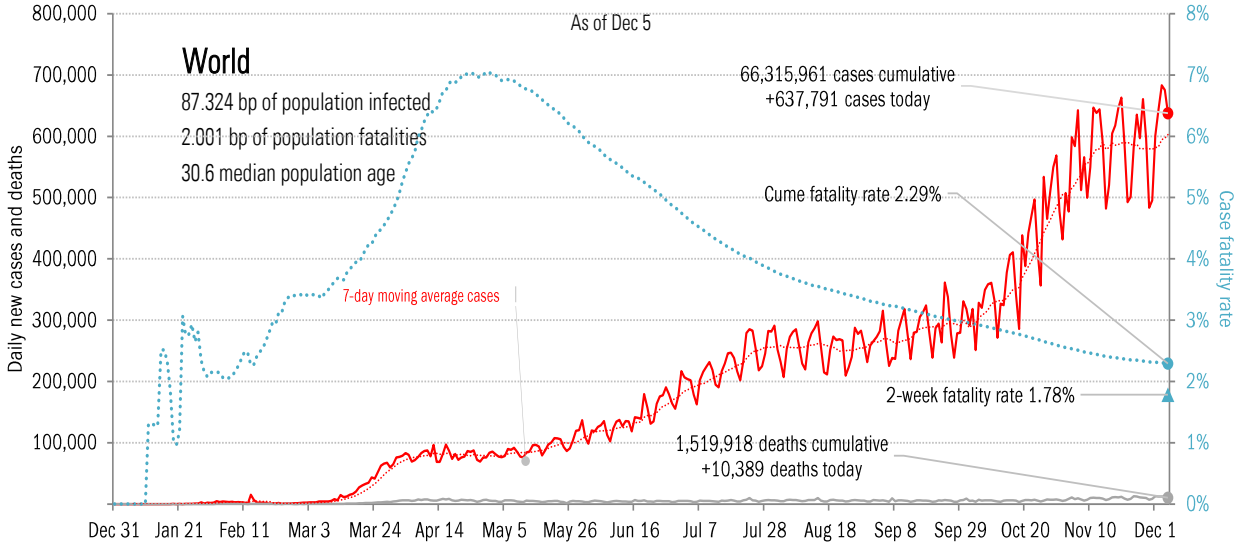
Sunday, December 6, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+211,073	United States	+2,445
Brazil	+43,209	Brazil	+664
India	+36,011	Italy	+662
Turkey	+31,896	Mexico	+593
Russia	+28,450	Poland	+502
Germany	+26,126	Russia	+498
Italy	+21,052	India	+482
United Kingdom	+15,579	United Kingdom	+397
Ukraine	+14,157	Iran	+321
France	+12,923	Germany	+262
	+440,476		+6,826
World	+637,791	World	+10,389
Top ten	69%	Top ten	66%





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

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The US scorecard

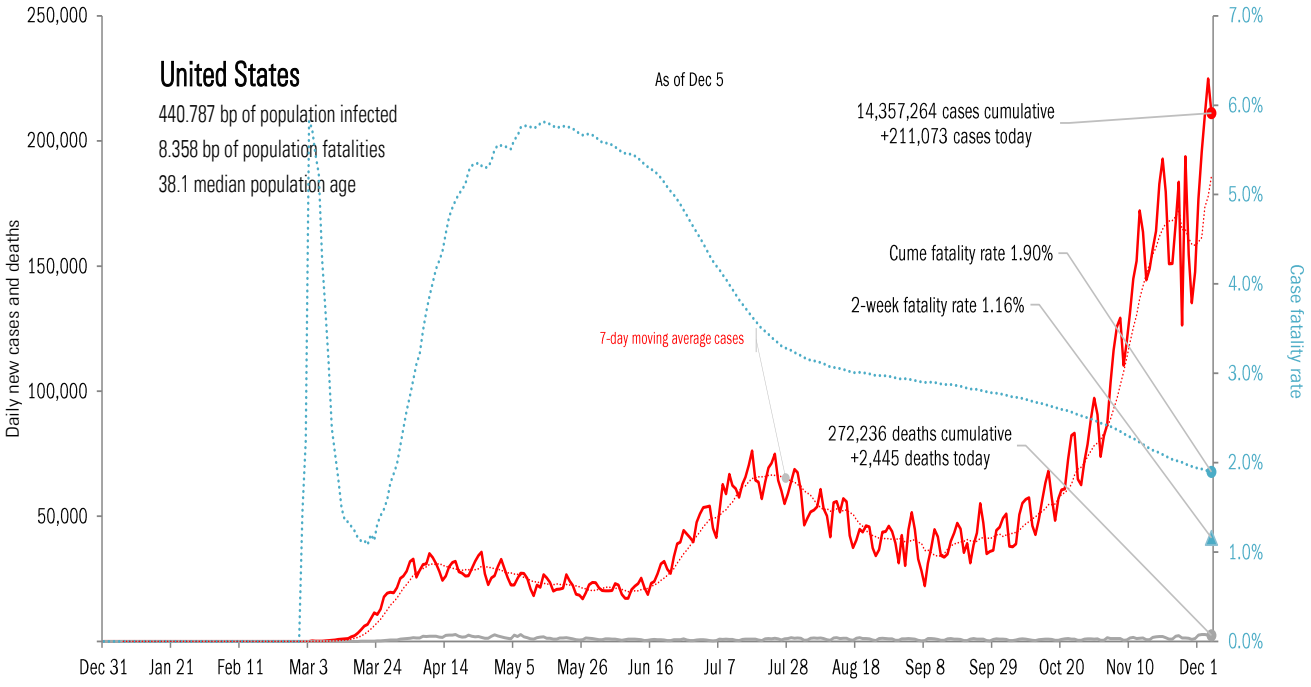
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
CA	+25,068	TX	+247	CA	+325	CA	1,311,625	NY	27,089	NY	89,995
PA	+12,884	IL	+235	NV	+111	TX	1,240,750	TX	22,502	FL	57,040
TX	+11,938	CA	+209	NY	+96	FL	1,032,552	CA	19,791	NJ	42,361
NY	+10,761	MI	+204	PA	+42	IL	779,975	FL	19,327	GA	36,001
OH	+10,469	PA	+149	MA	+34	NY	696,125	NJ	17,306	OH	28,959
FL	+10,198	WI	+92	OK	+34	OH	467,432	IL	14,017	IN	28,016
IL	+9,887	FL	+91	AZ	+32	GA	442,017	PA	11,262	AZ	28,006
IN	+7,690	IN	+85	DE	+18	WI	437,918	MA	10,953	AL	26,331
AZ	+6,799	MN	+75	AK	+15	MI	426,576	MI	10,321	MD	21,912
MI	+6,308	NY	+72	AR	+15	PA	411,484	GA	9,793	WI	18,126
	+112,002		+1,459		+722		7,246,454		162,361		376,747
All states	+211,073	All states	+2,445	All states	-+86	All states	14,357,264	All states	272,236	All states	583,420
Top ten	53%	Top ten	60%	Top ten	-840%	Top ten	50%	Top ten	60%	Top ten	65%

Some states not reporting

Five most improved US states

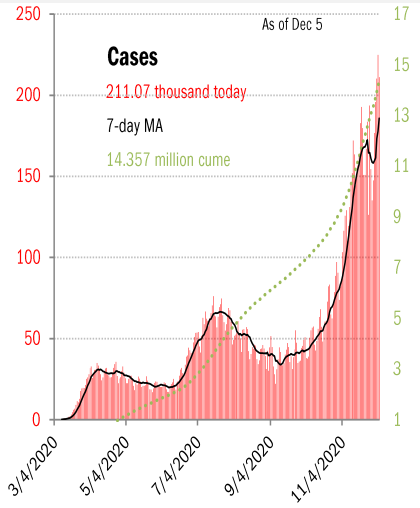
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
KS	-6,234	KS	-107	KS	-289	MI	+32,481
MI	-3,117	TN	-66	AZ	-124	TX	+9,597
LA	-3,099	OH	-65	PA	-117	OH	+8,503
TX	-1,761	CT	-35	MO	-113	MN	+7,930
CT	-1,538	FL	-33	TN	-86	PA	+7,472

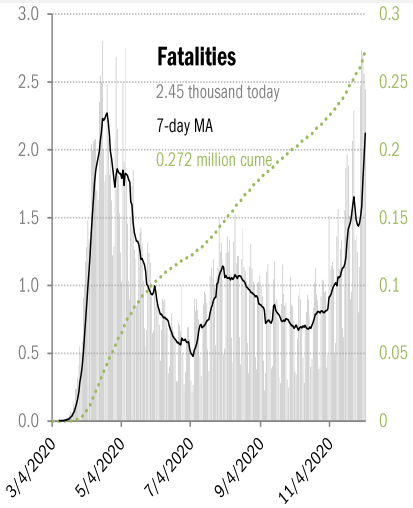


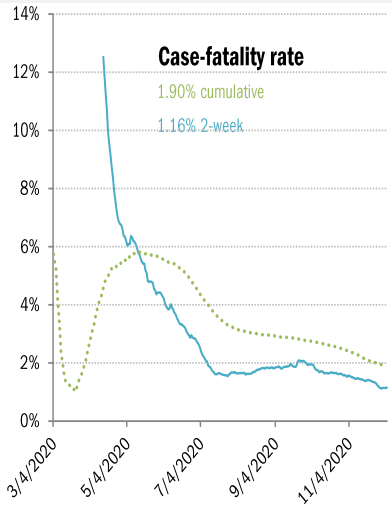
Source: Covid Tracking Project, TrendMacro calculations

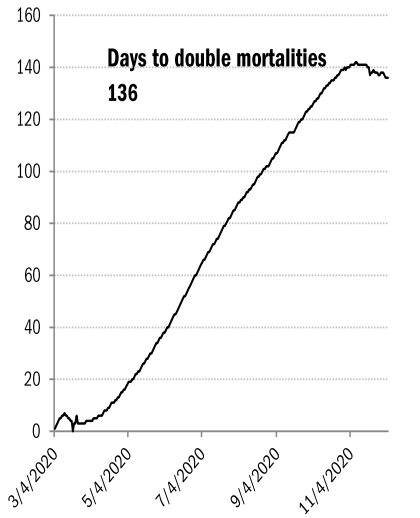
US deep-dive

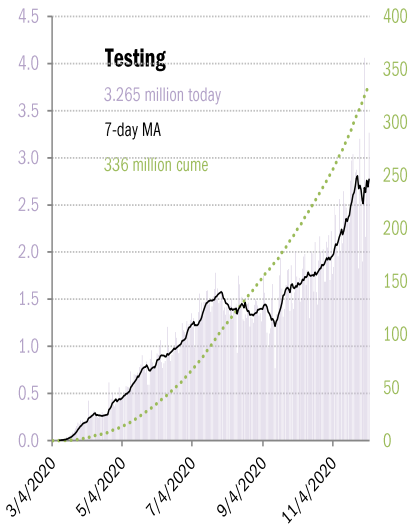
National and state-by-state data do not line up because of different sources

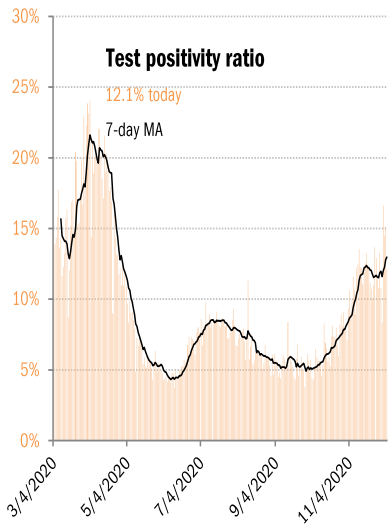


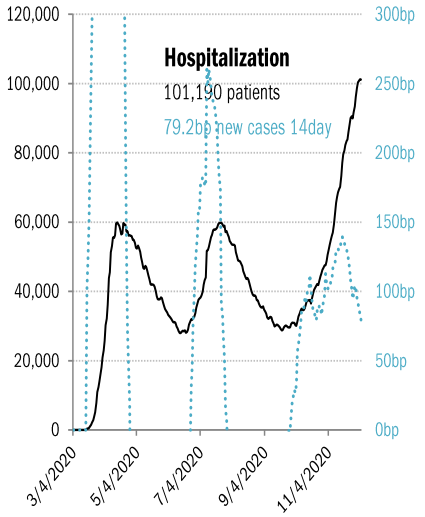


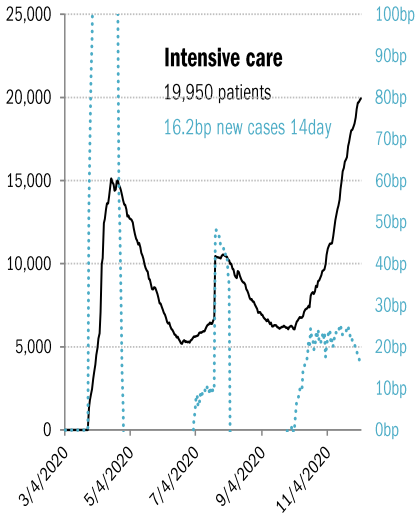


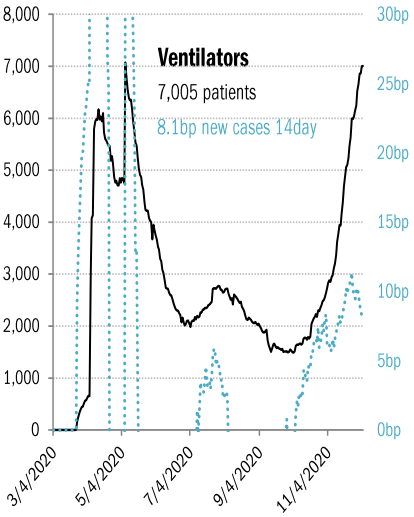






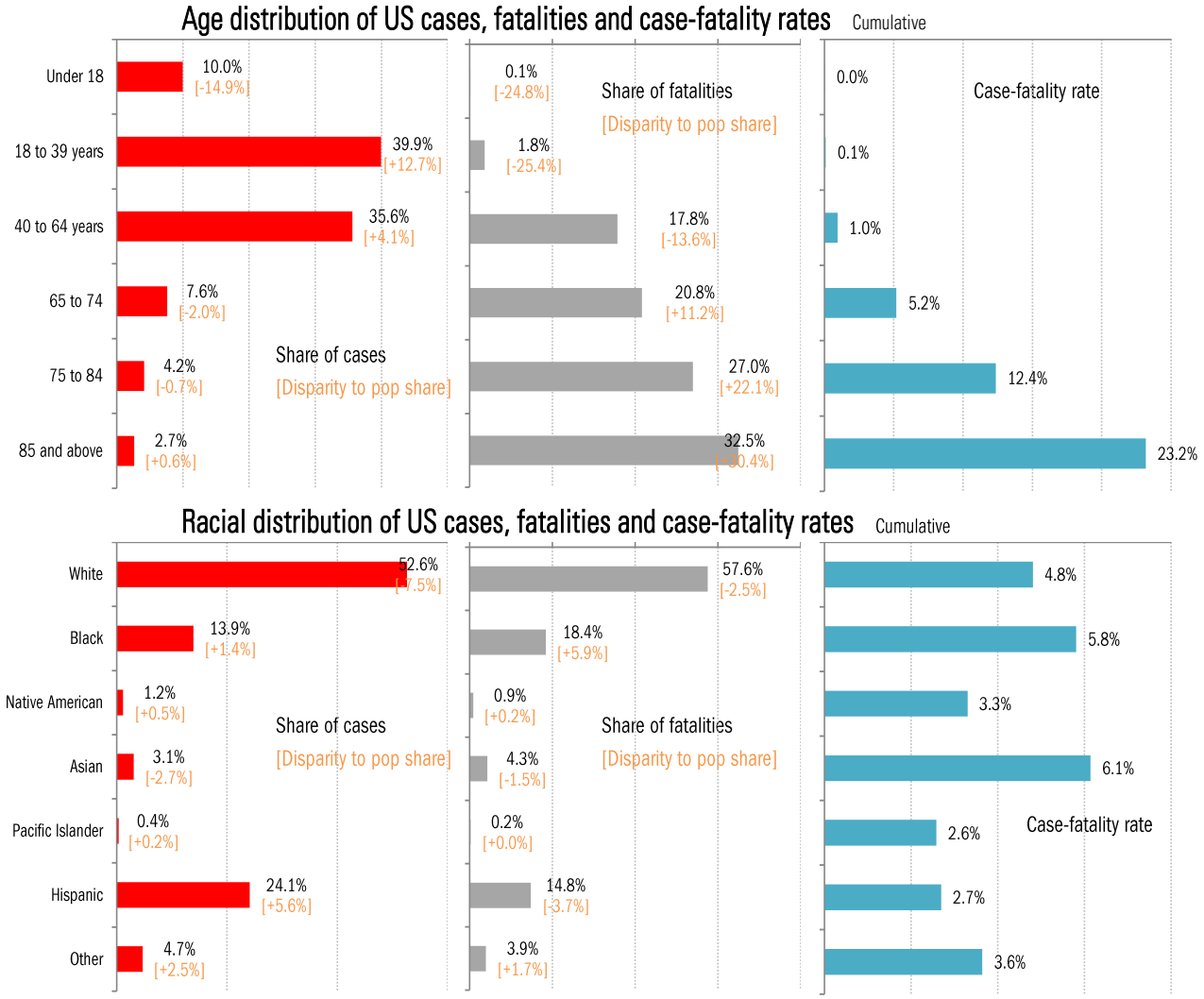




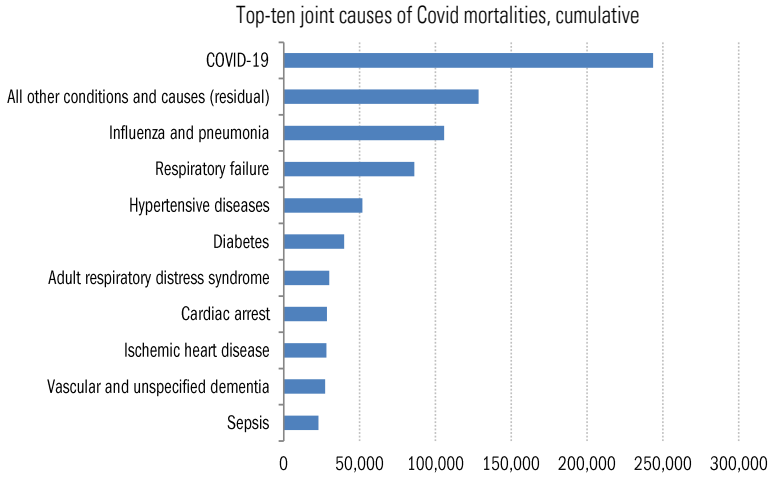


Source: Covid Tracking Project, TrendMacro calculations

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 2.6 additional conditions or causes per death.

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

[Yale School of Public Health Professor David Paltiel on Computer Modelling of COVID-19 Vaccination Programs]
Jonathan Kay
Quillette
November 28, 2020

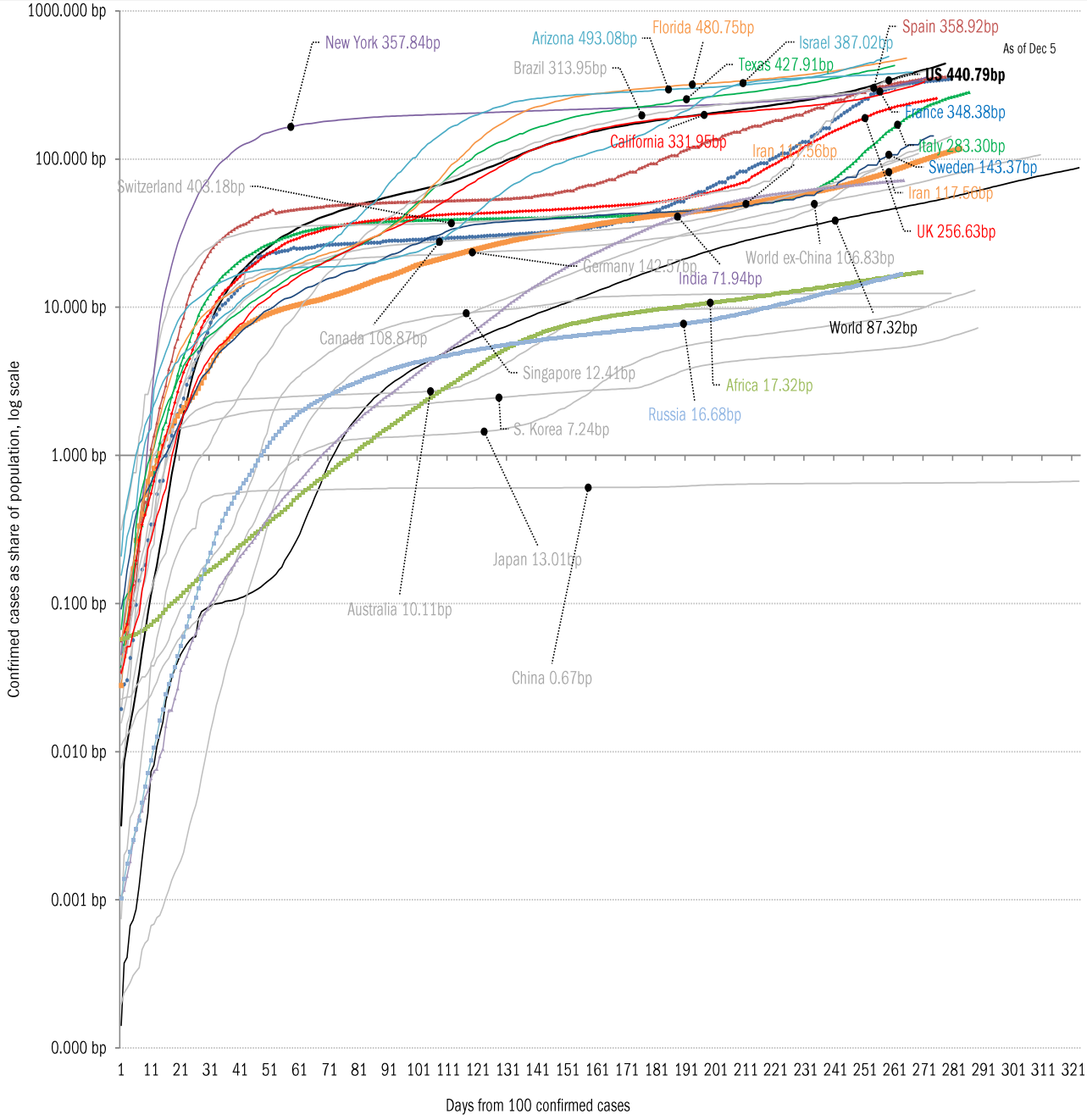
[More than one-in-three small businesses closed since January]
Greg Bishop
Center Square
December 2, 2020

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

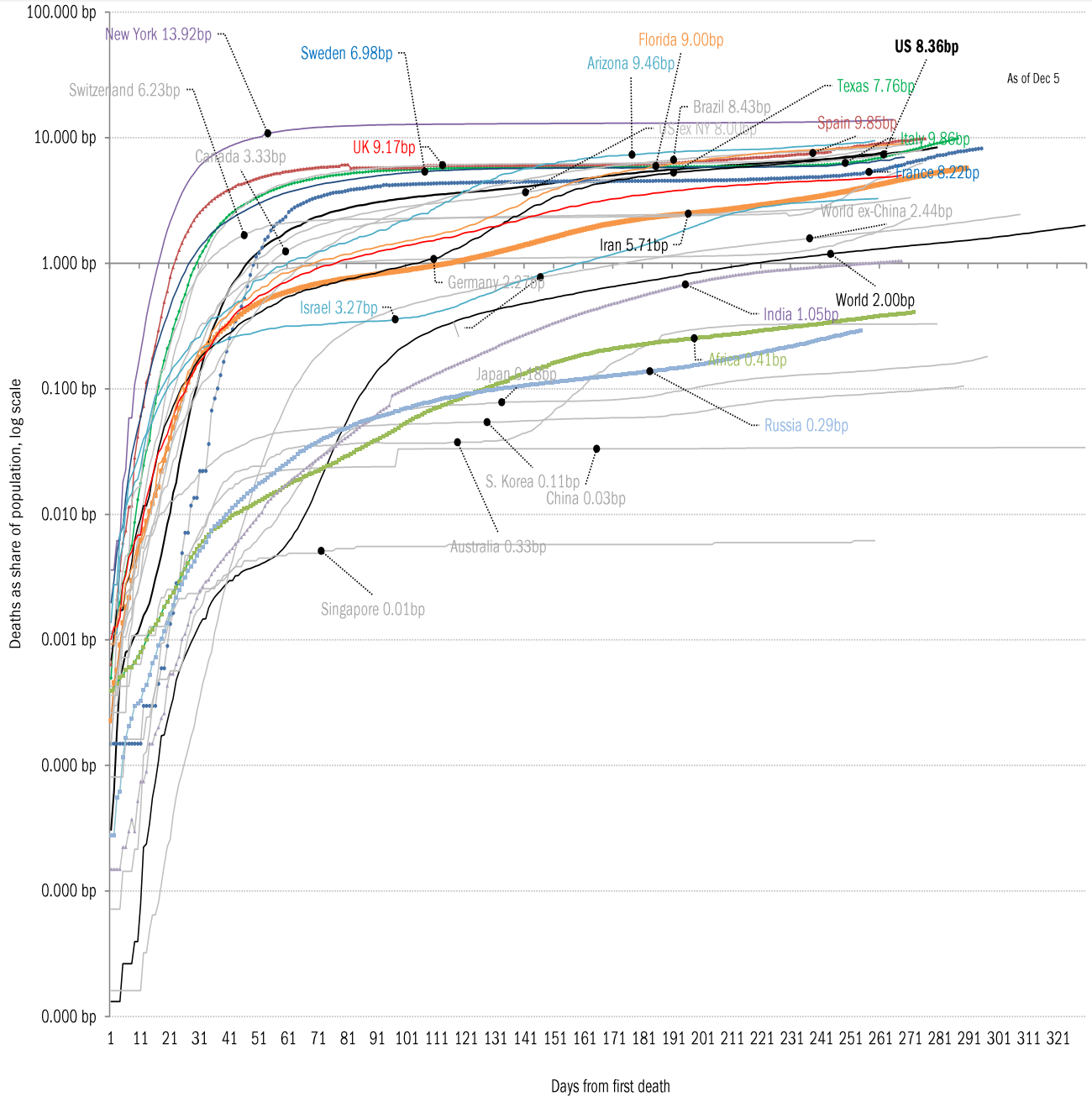
Share of infected population from first day with 100 confirmed cases, log scale



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

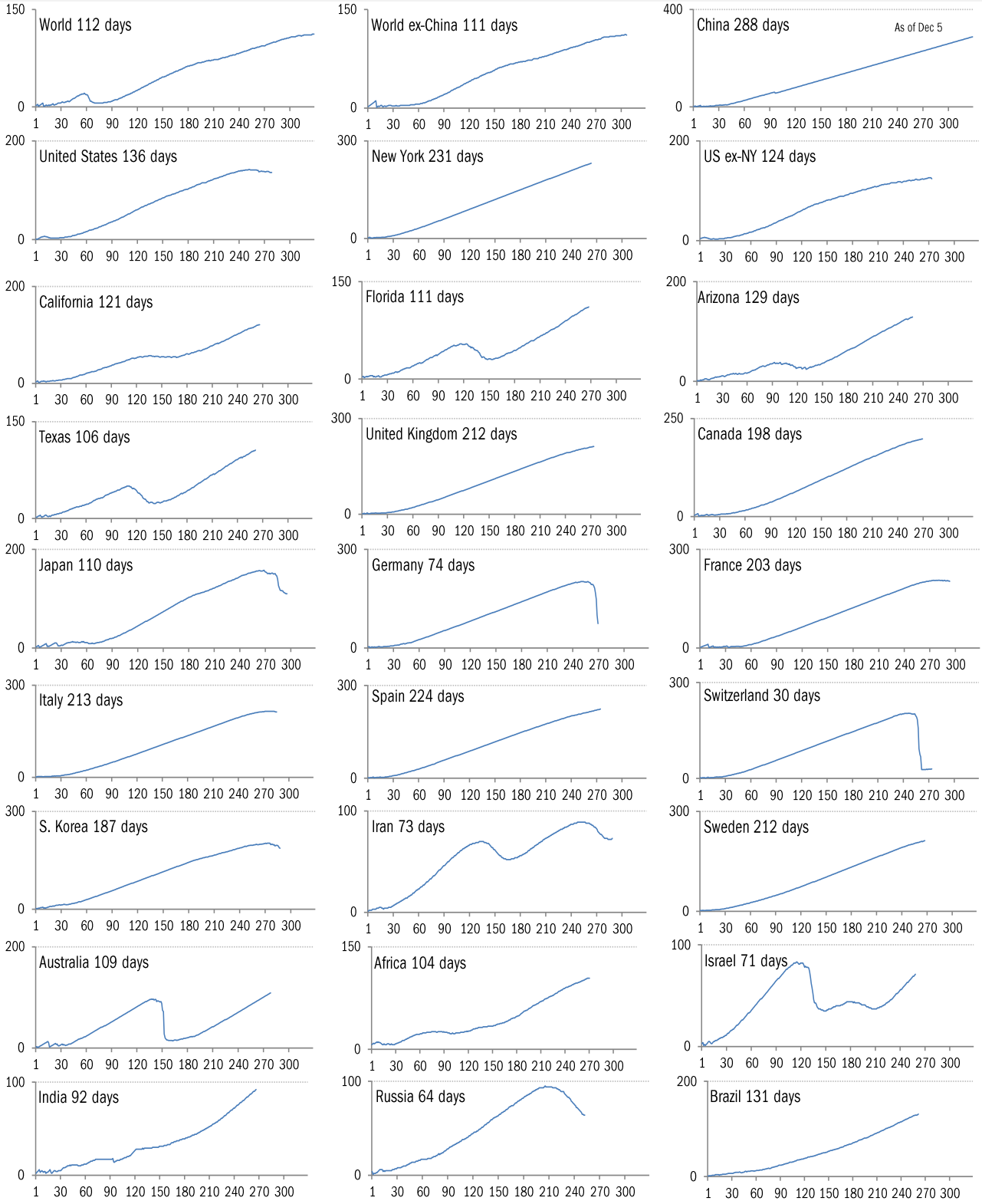


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

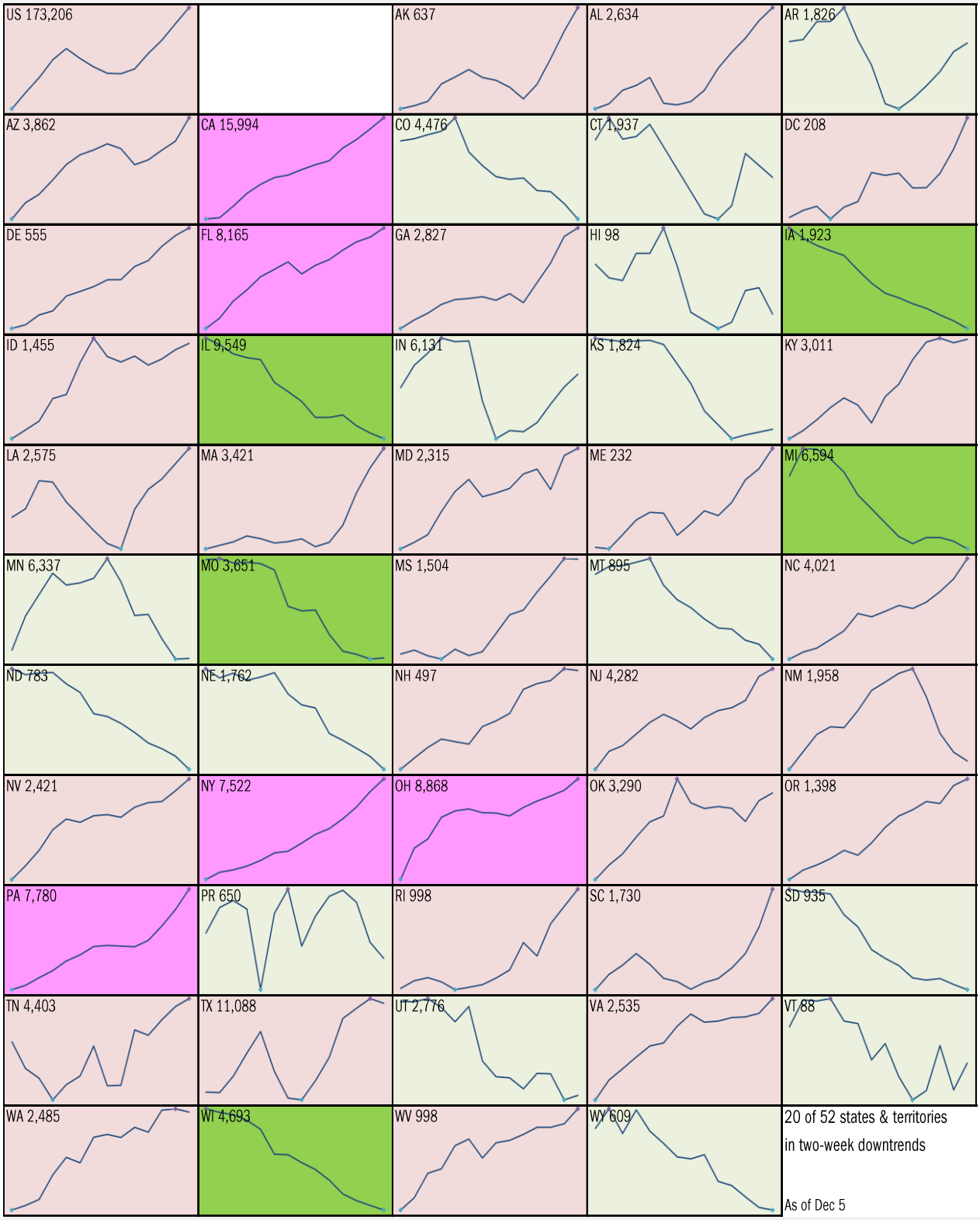


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

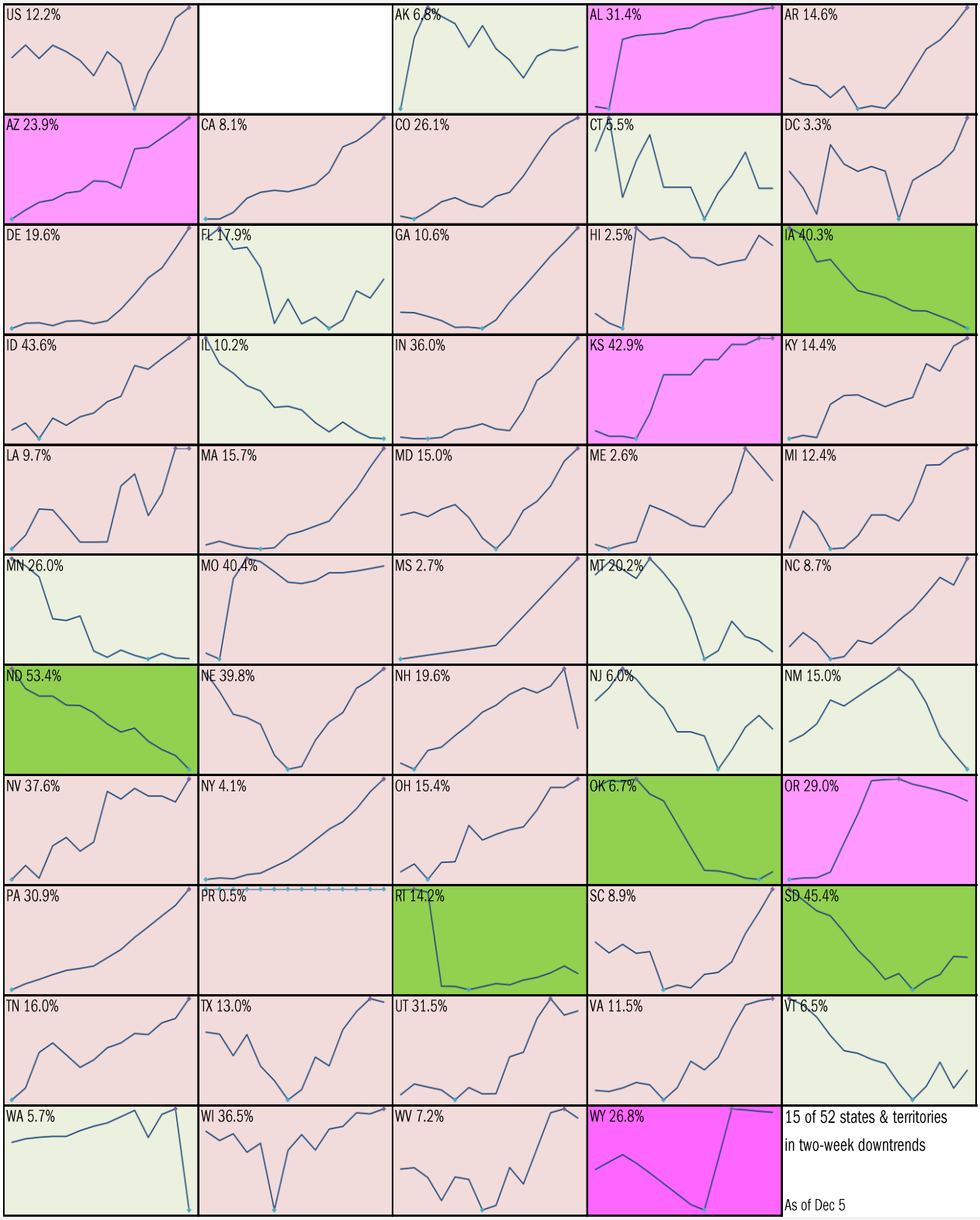


Source: Covid Tracking Project, TrendMacro calculations

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

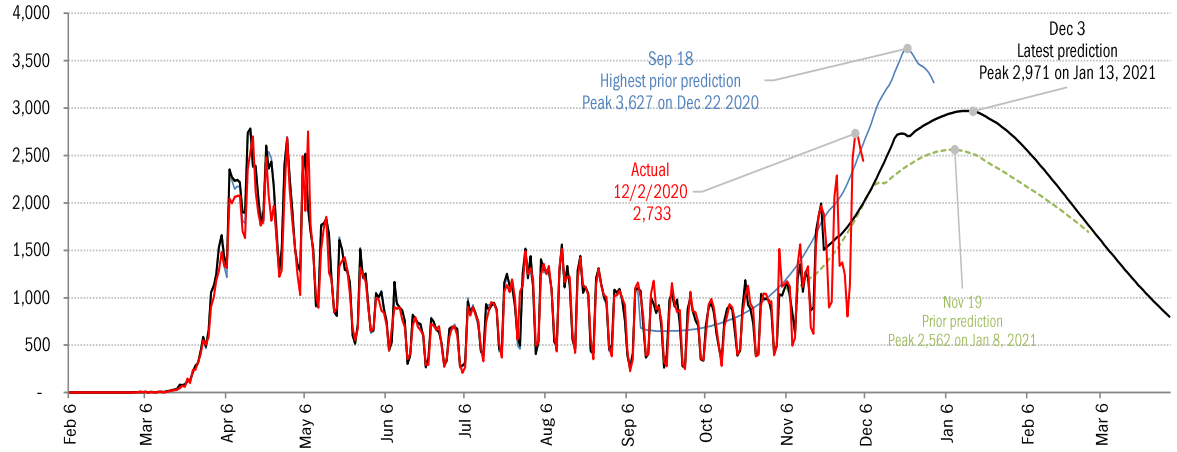


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

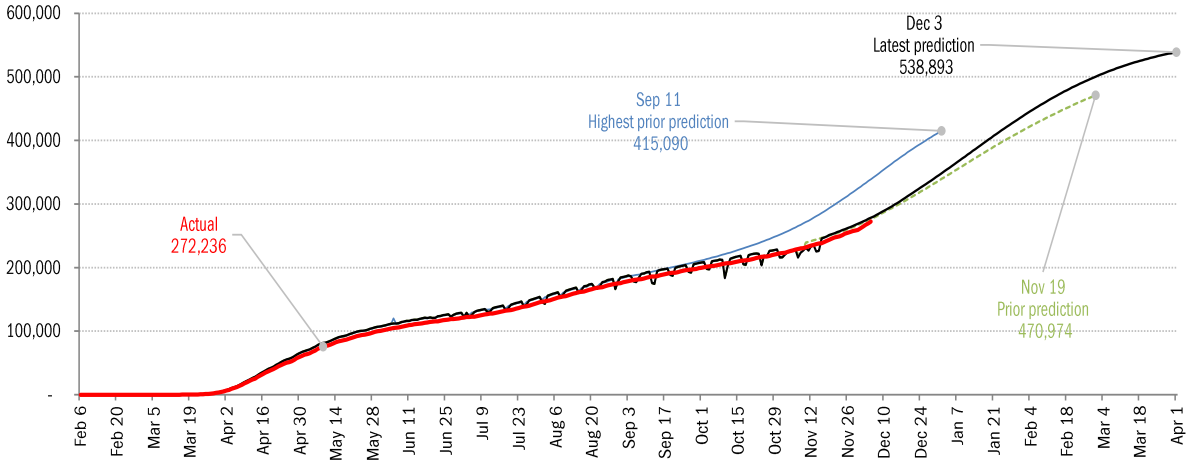
New daily fatalities As of Dec 5

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

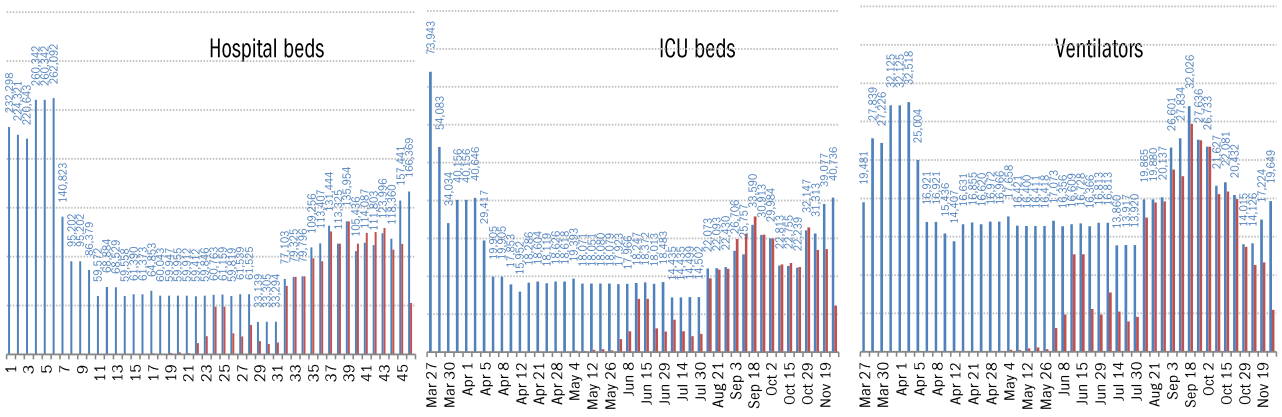


Cumulative fatalities

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

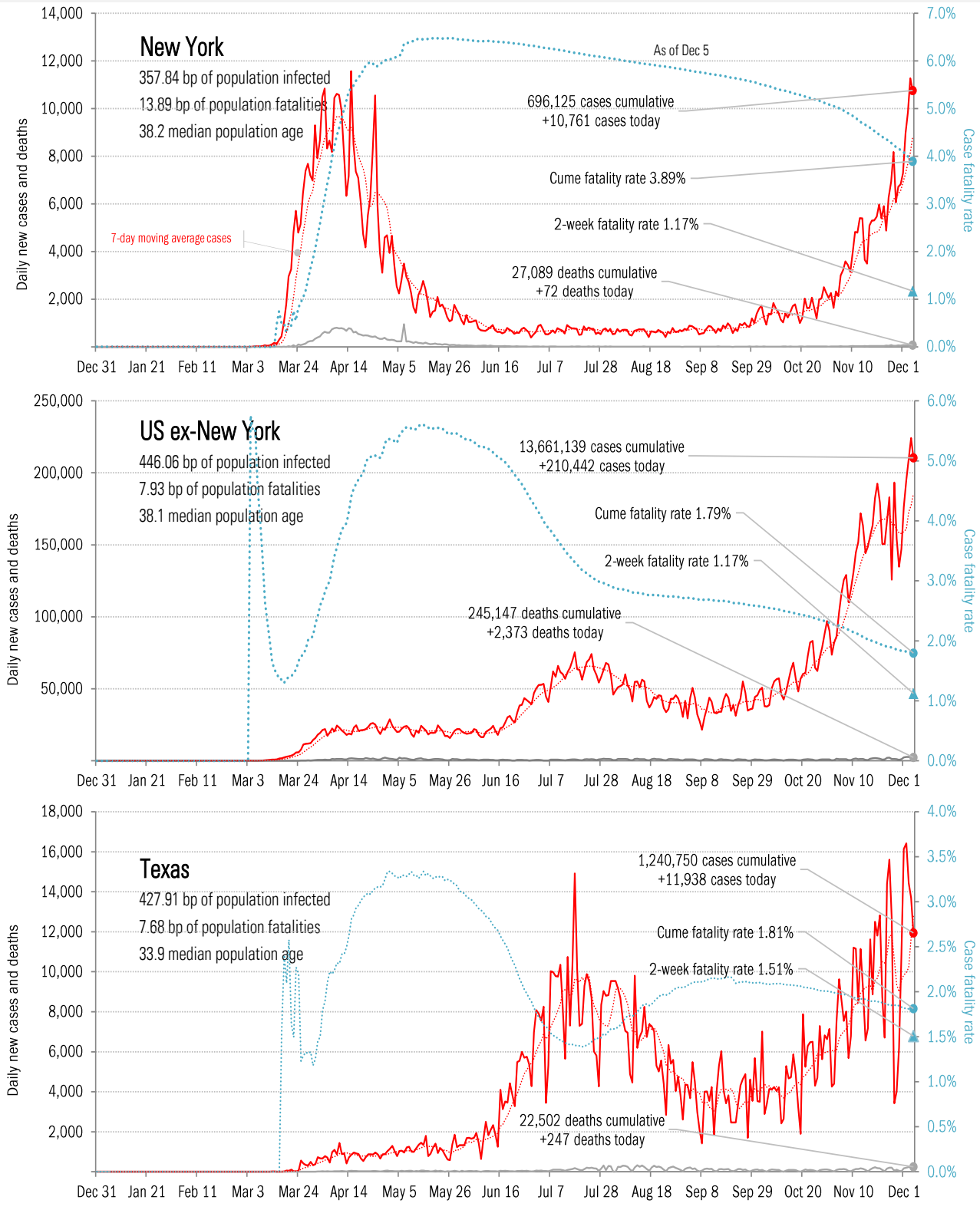


Healthcare system stress, peak and ultimate estimated at each model revision



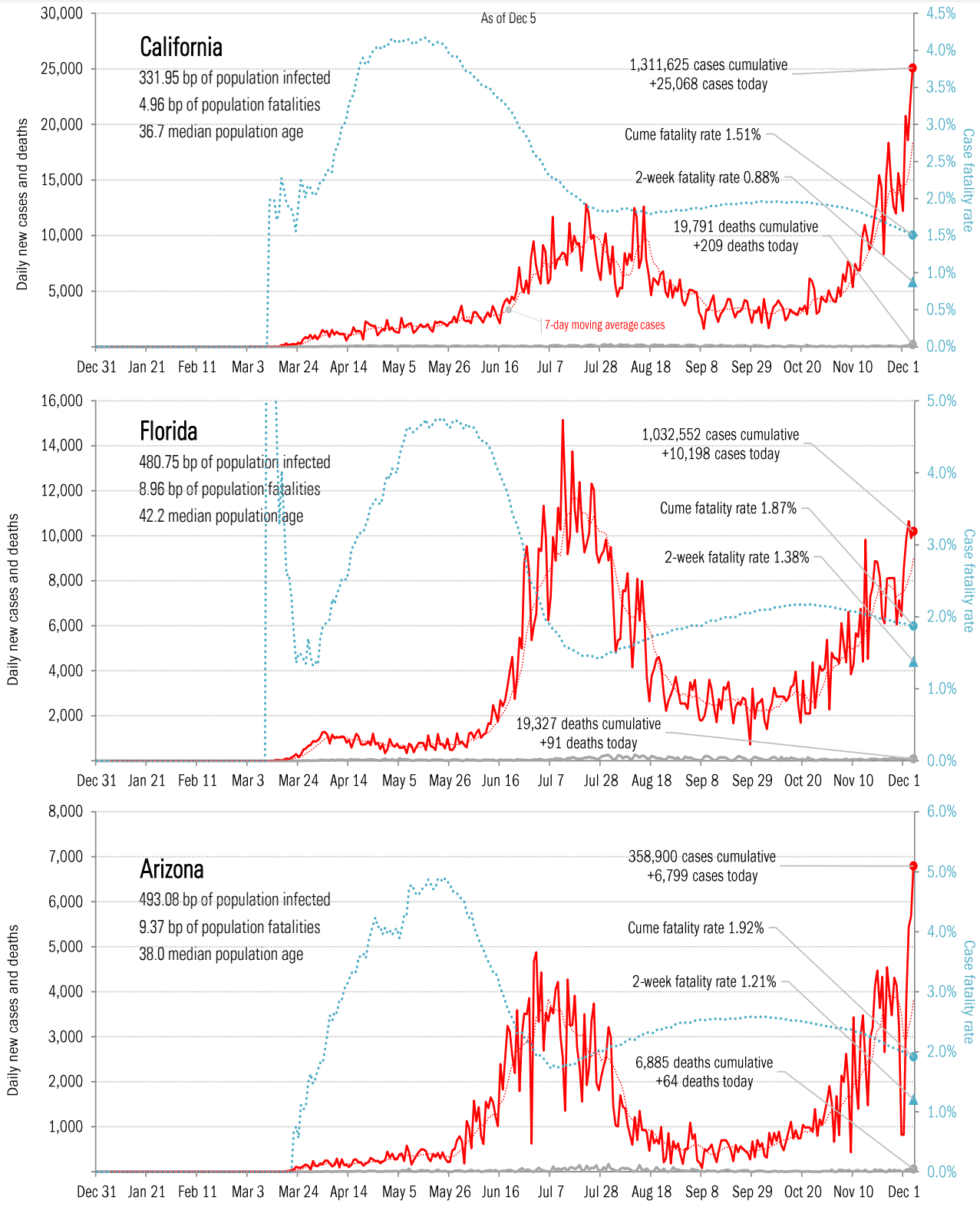
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



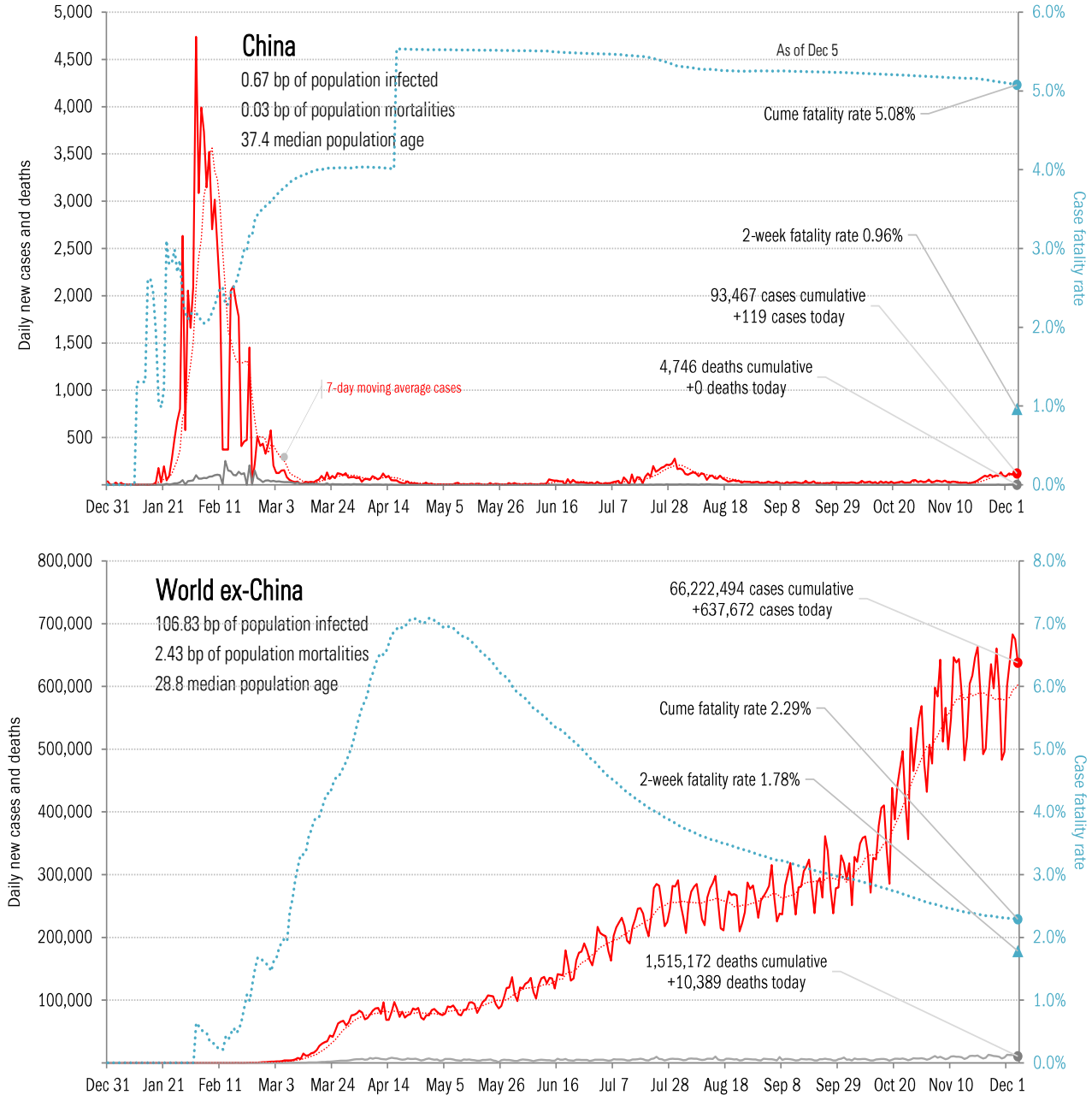
Source: Covid Tracking Project,, TrendMacro calculations

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



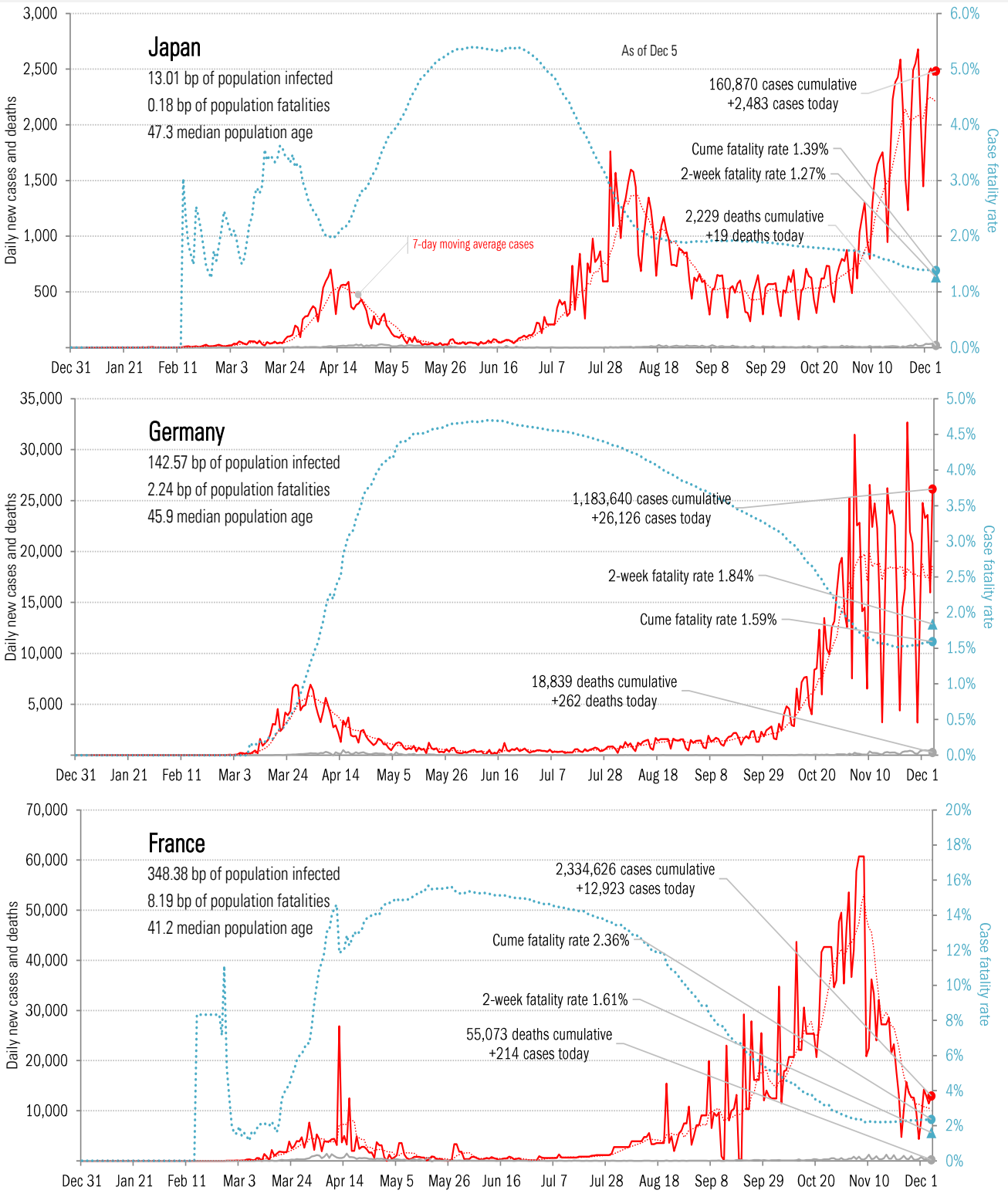
Source: Covid Tracking Project,, TrendMacro calculations

Patient zero… and then everyone else



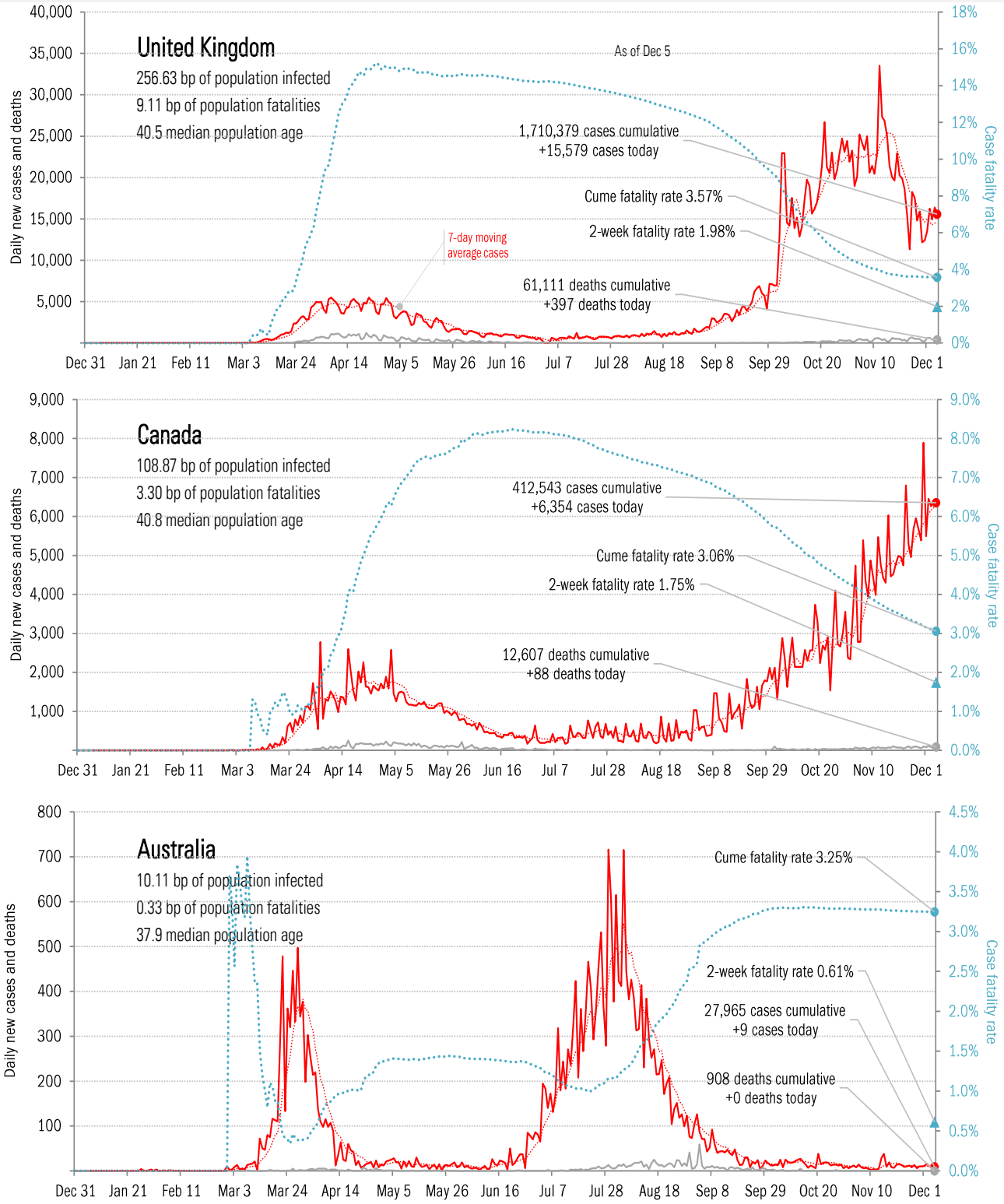
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



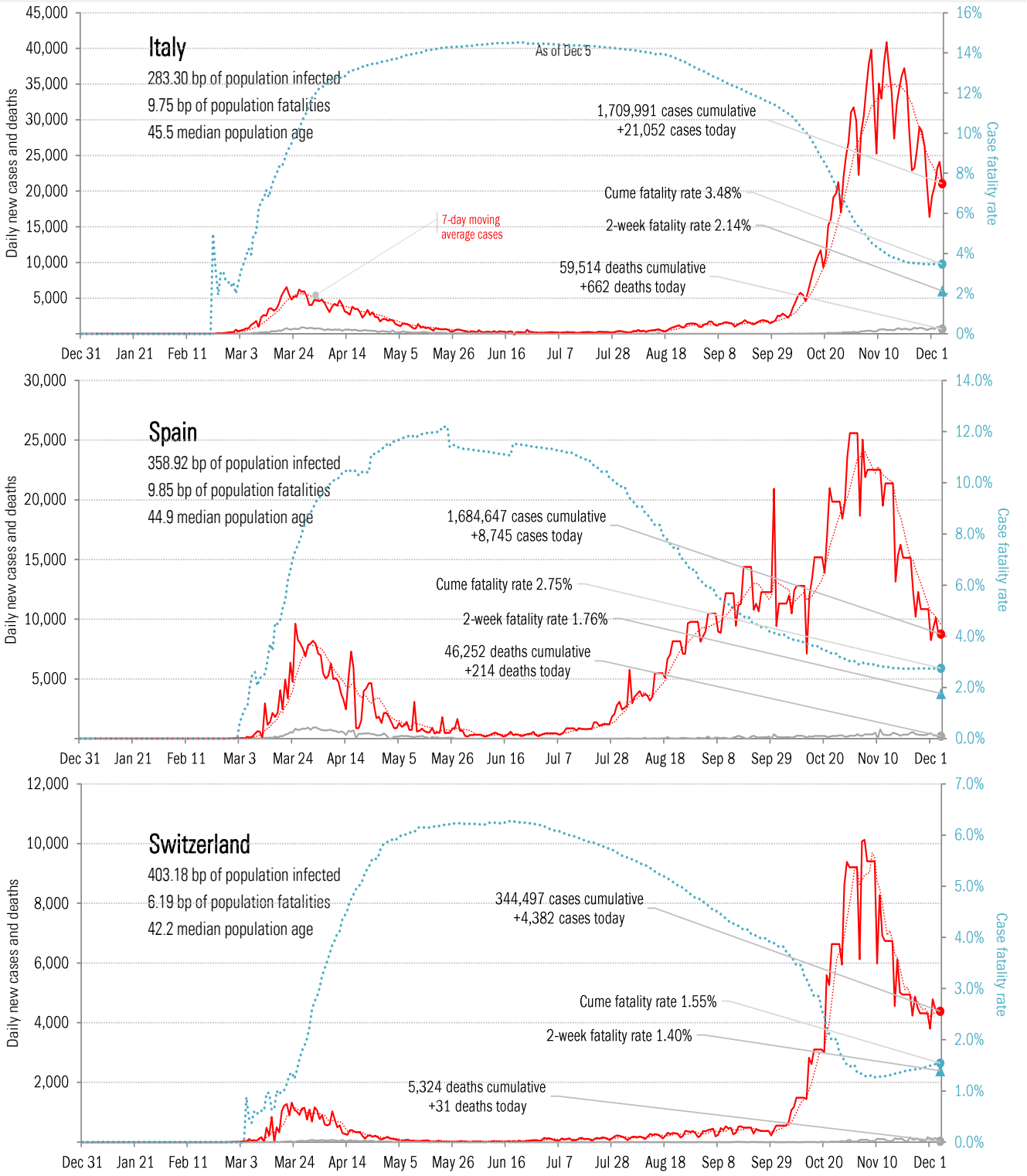
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



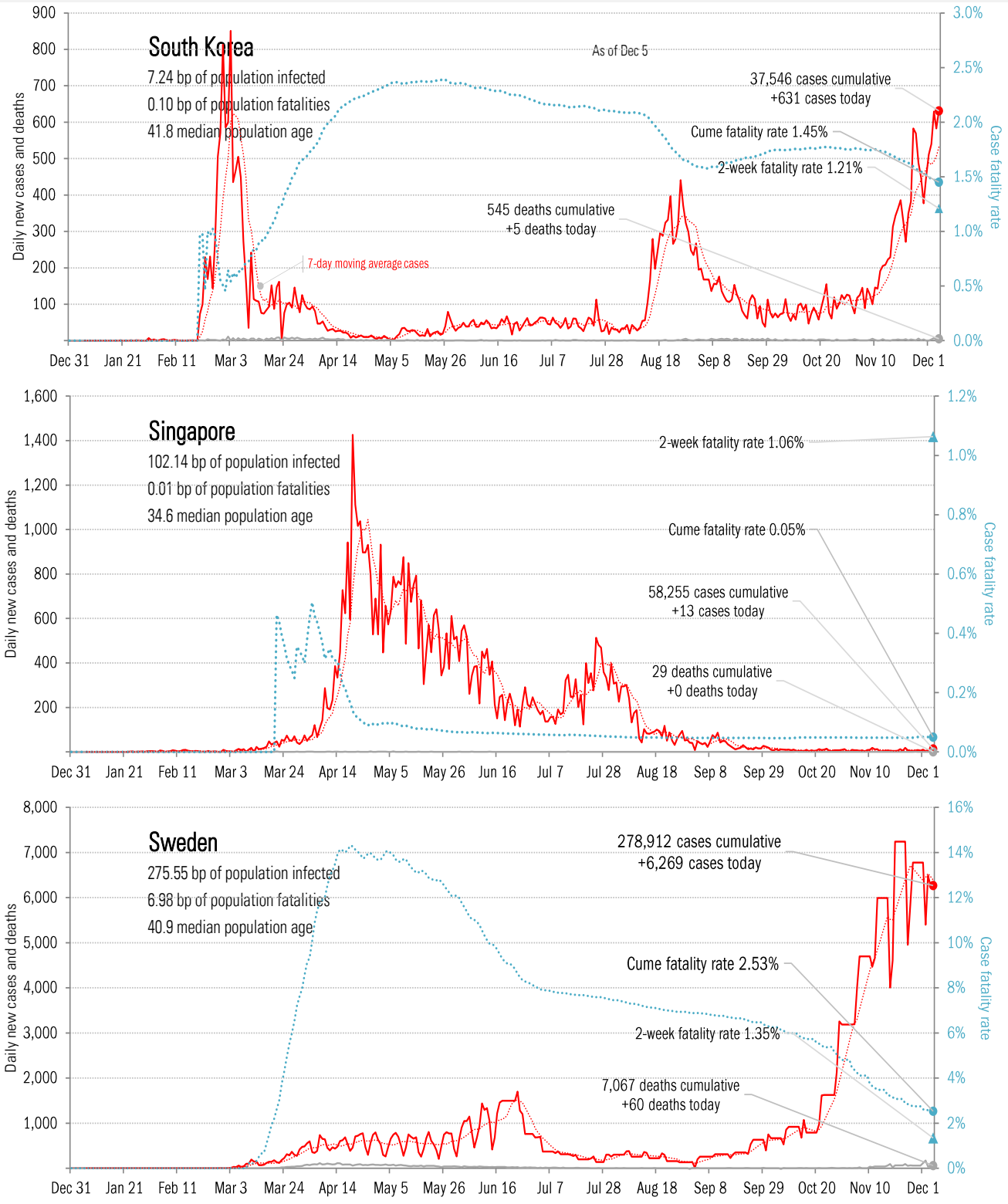
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



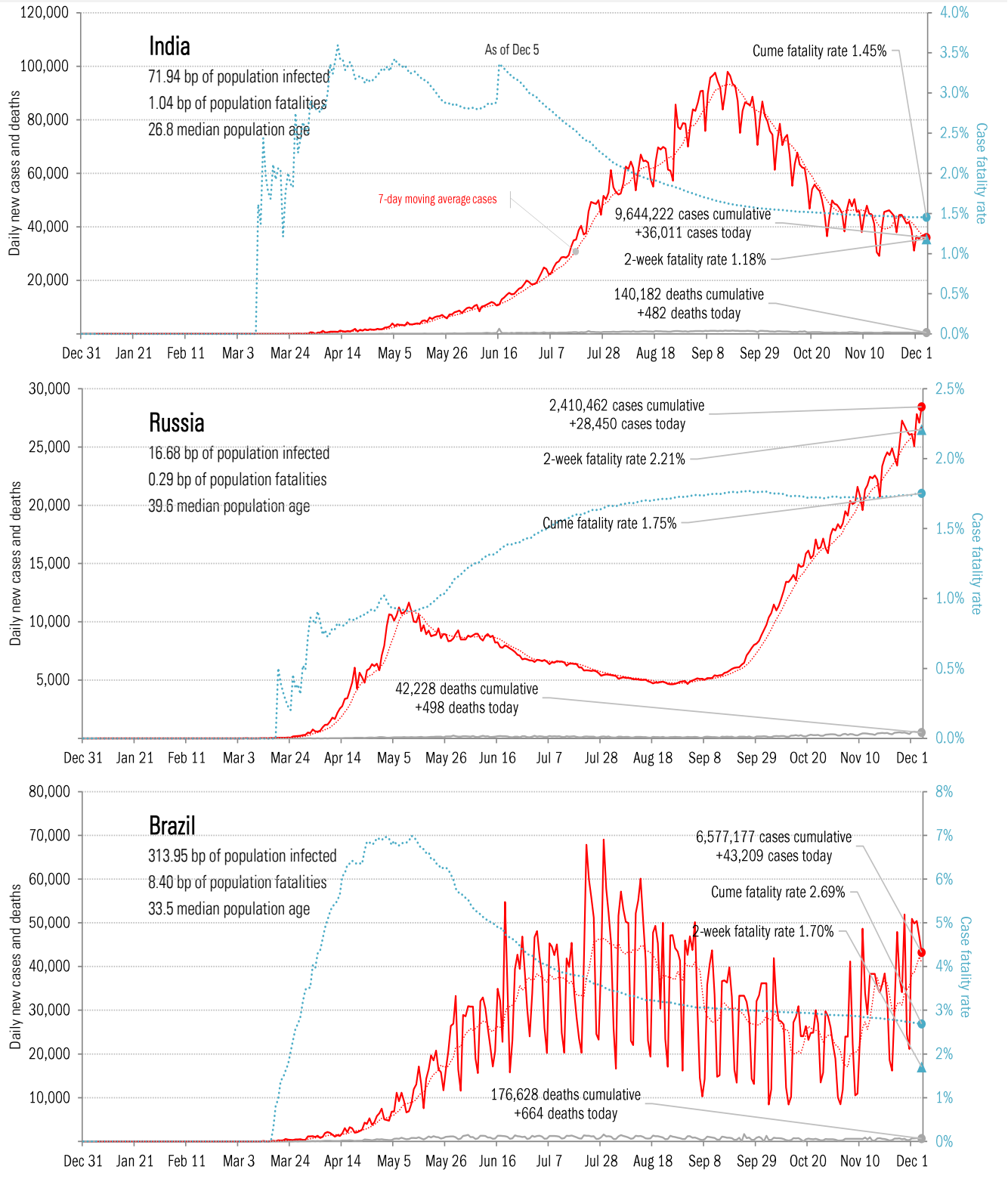
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



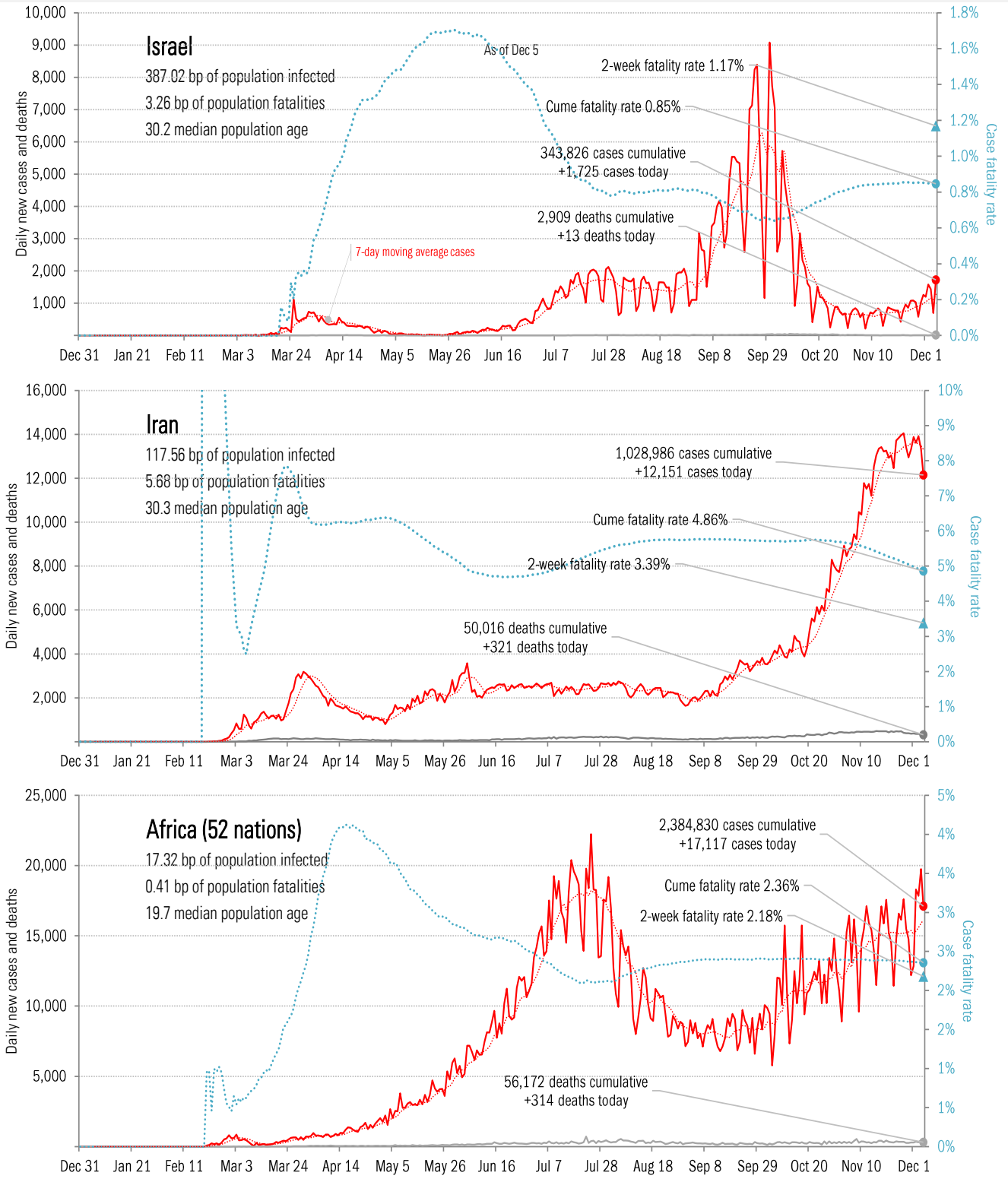
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations