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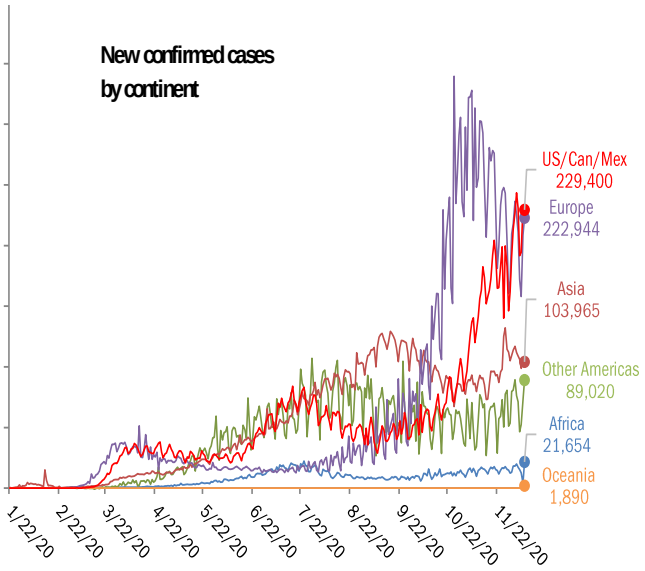
Data Insights: Covid-2019 Monitor

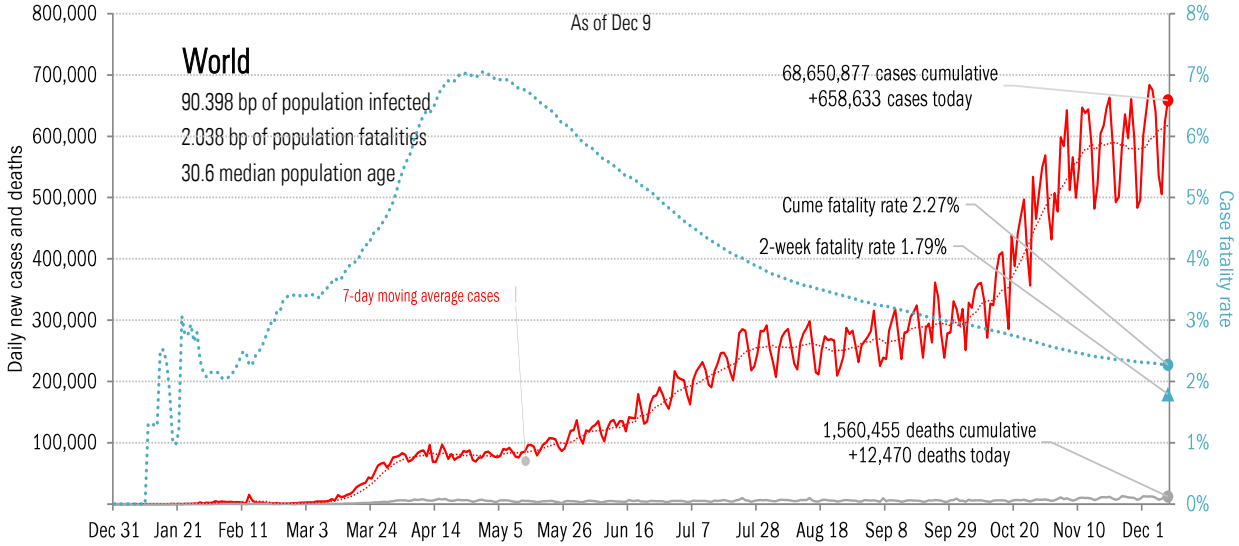
Thursday, December 10, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+211,027	United States	+3,054
Brazil	+53,453	Brazil	+836
Turkey	+31,712	Mexico	+781
India	+31,521	Poland	+568
Russia	+25,838	Russia	+546
Germany	+25,089	United Kingdom	+533
United Kingdom	+16,634	Italy	+499
France	+14,717	Germany	+458
Ukraine	+12,937	India	+412
Italy	+12,755	Spain	+373
	+435,683		+8,060
World	+658,633	World	+12,470
Top ten	66%	Top ten	65%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

For more information contact us:
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The US scorecard

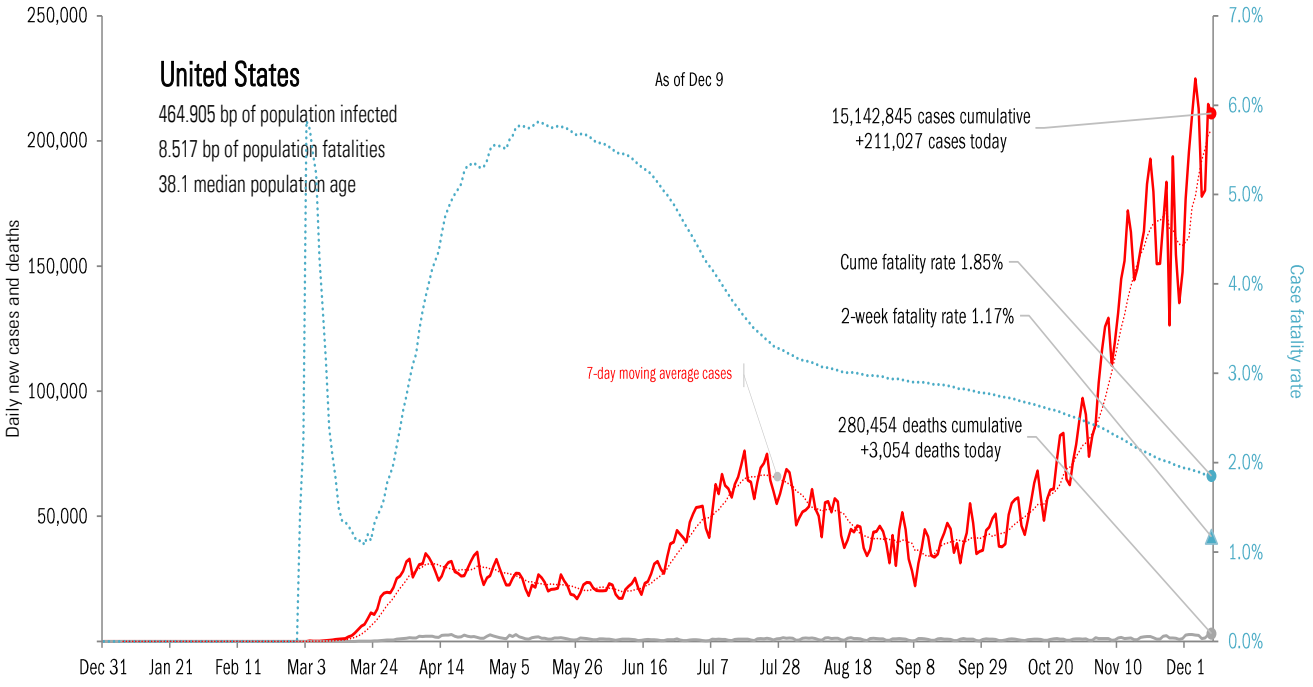
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
CA	+30,851	TX	+273	KS	+486	CA	1,420,558	NY	27,404	NY	89,995
TX	+11,170	IL	+229	CA	+454	TX	1,283,674	TX	23,081	FL	57,957
NY	+10,600	PA	+220	PA	+291	FL	1,065,476	CA	20,243	NJ	43,075
OH	+10,094	CA	+196	NY	+158	IL	812,430	FL	19,716	GA	36,740
FL	+9,411	CO	+149	AZ	+130	NY	733,064	NJ	17,542	OH	30,690
PA	+8,703	NJ	+116	VA	+117	OH	520,112	IL	14,613	IN	29,412
IL	+8,256	AZ	+108	ID	+95	GA	456,113	PA	11,762	AZ	28,880
TN	+8,213	IA	+102	IL	+85	WI	452,180	MA	11,166	AL	27,618
NC	+6,495	NY	+97	NC	+67	MI	448,418	MI	10,706	MD	22,622
MA	+5,965	IN	+96	MD	+62	PA	445,317	GA	9,921	MN	18,809
	+109,758		+1,586		+1,945		7,637,342		166,154		385,798
All states	+211,027	All states	+3,054	All states	+2,098	All states	15,142,845	All states	280,454	All states	599,121
Top ten	52%	Top ten	52%	Top ten	93%	Top ten	50%	Top ten	59%	Top ten	64%

Some states not reporting

Five most improved US states

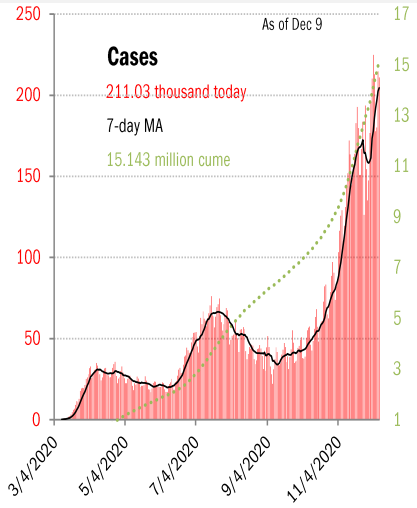
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
OH	-15,627	MO	-133	TX	-213	LA	+15,039
AZ	-7,870	MI	-122	MI	-135	TX	+11,982
WA	-4,034	IA	-99	MO	-127	OH	+10,260
TX	-3,120	AR	-39	SC	-116	PA	+9,414
AR	-2,283	TN	-38	MN	-96	WI	+6,752

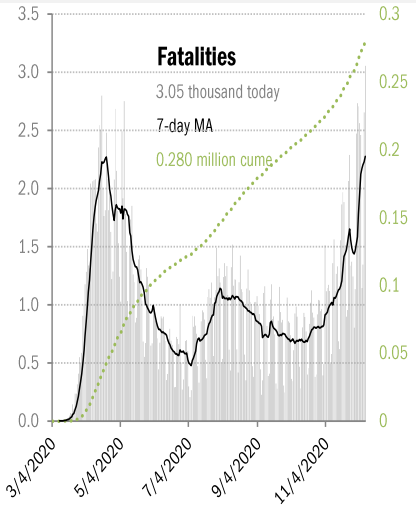


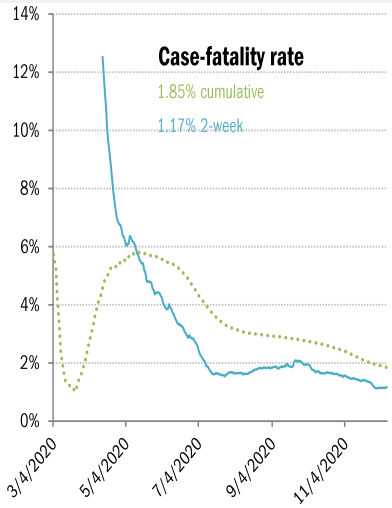
Source: Covid Tracking Project, TrendMacro calculations

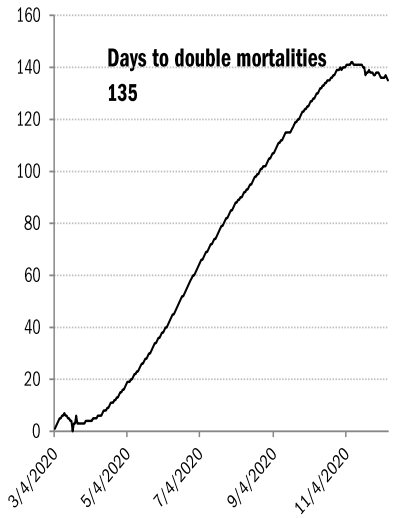
US deep-dive

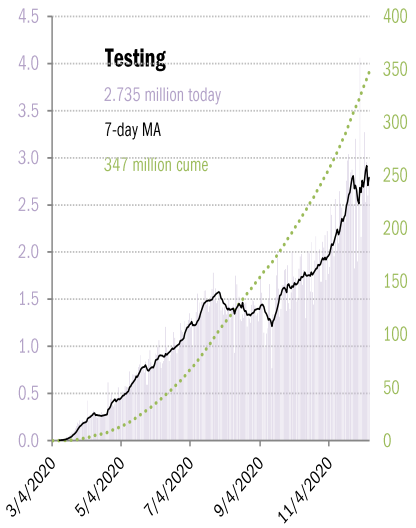
National and state-by-state data do not line up because of different sources

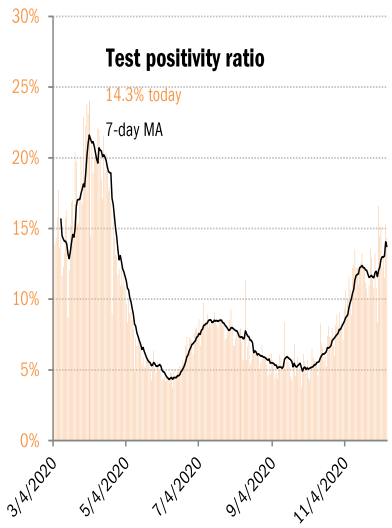


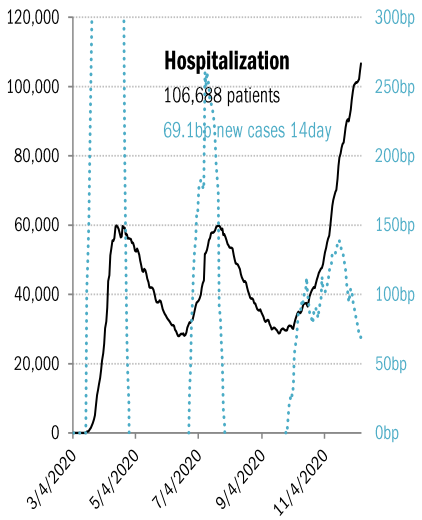


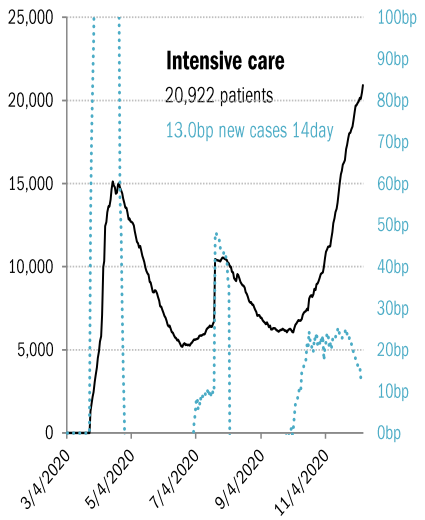


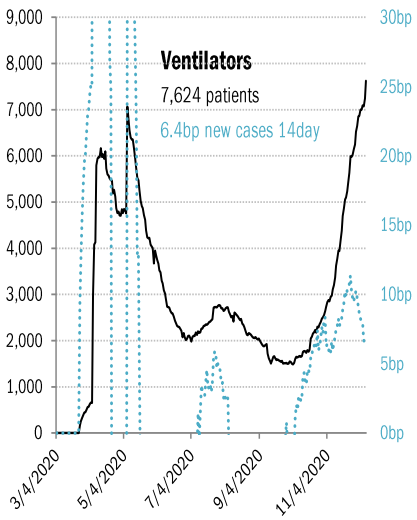






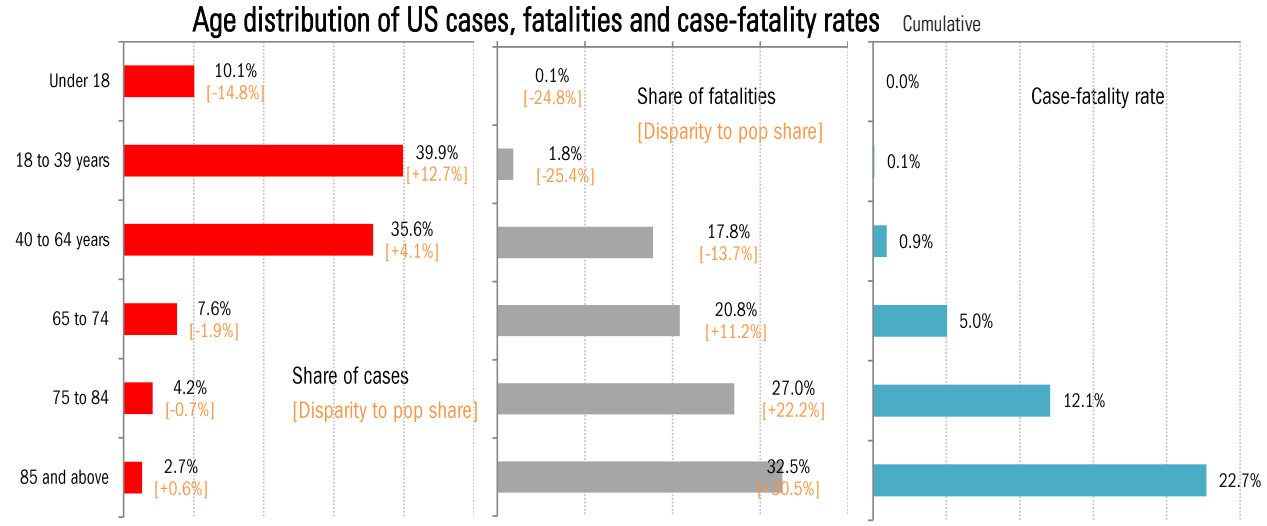


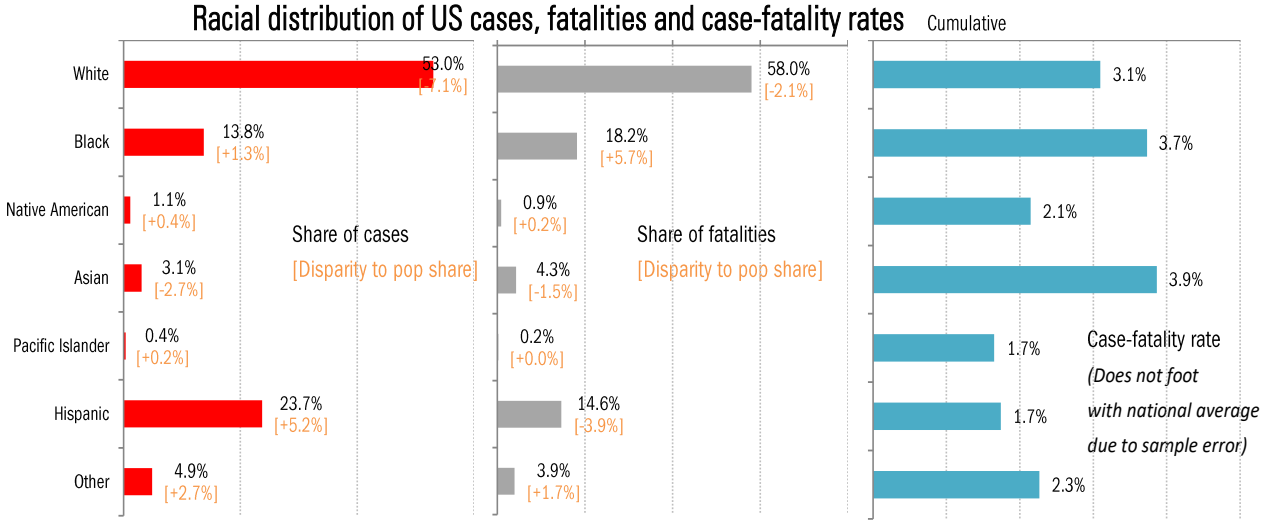




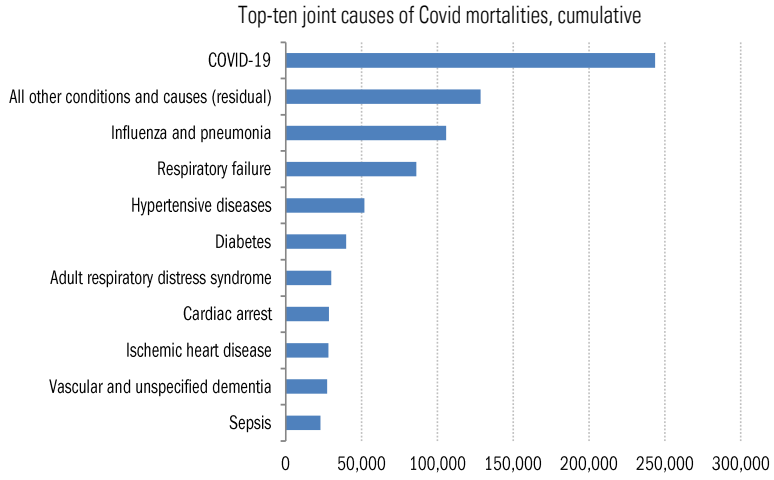
Source: Covid Tracking Project, TrendMacro calculations

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

[Paper-based electrochemical sensor can detect COVID-19 in less than five minutes]
Science Daily
December 7, 2020

[Pandemic Penitents]
John Tierney
City Journal
December 7, 2020

[Restaurant Closings Top 110,000 With Industry in 'Free Fall']
Carolina Gonzalez
Bloomberg
December 7, 2020

[Despite Pandemic, Thanksgiving Travel Higher in 80% of Counties From 2019]
Andre Tartar, Mira Rojanasakul and Pablo Robles
Bloomberg
December 9, 2020

[Covid vaccine from China's Sinopharm is 86% effective, says UAE]
Simeon Kerr and Christian Shepherd
Financial Times
December 9, 2020

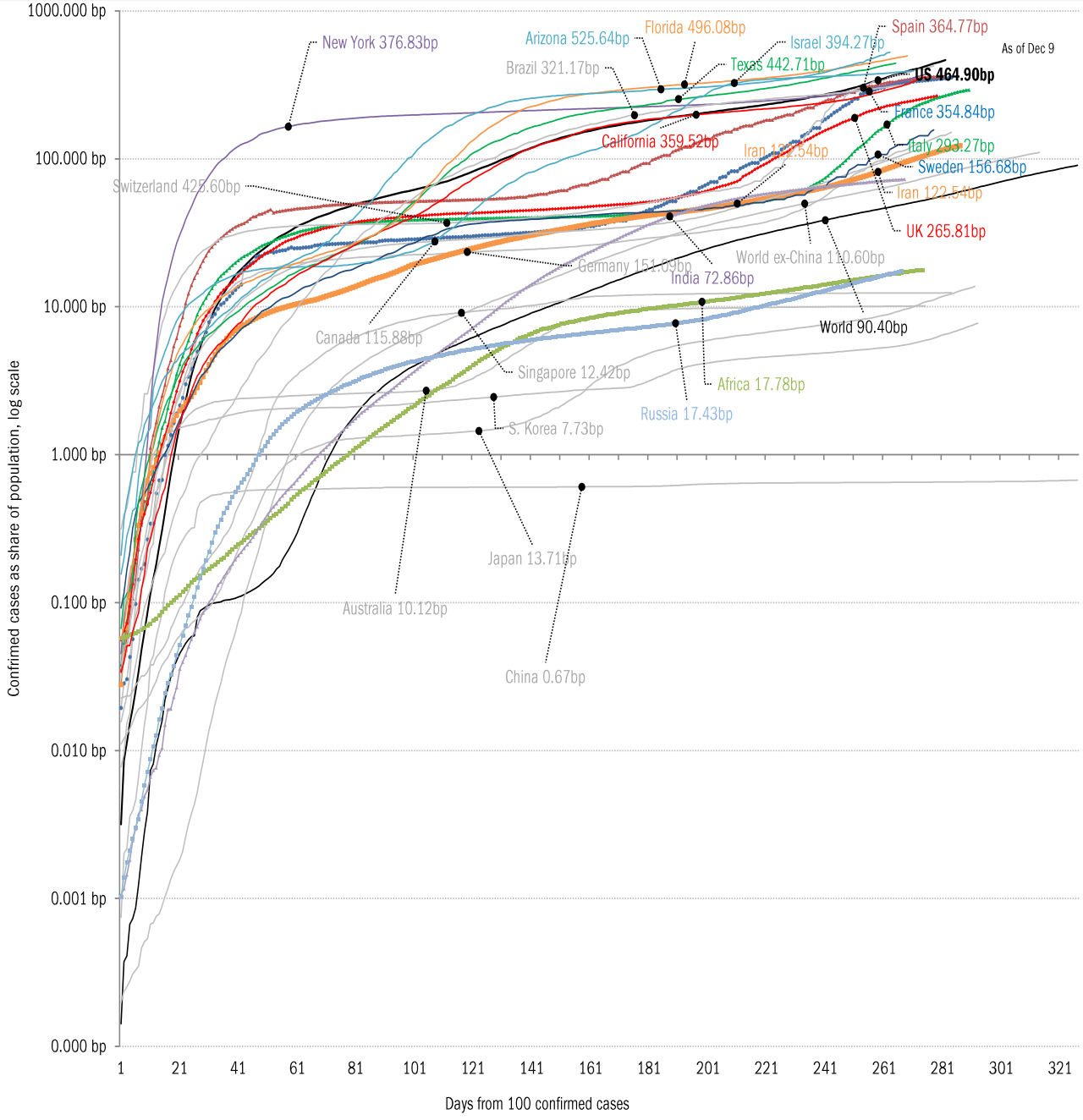
Meme of day

Help At Last: House Relief Bill Will Provide Free 'Going Out Of Business' Signs To Small Business Owners

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

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

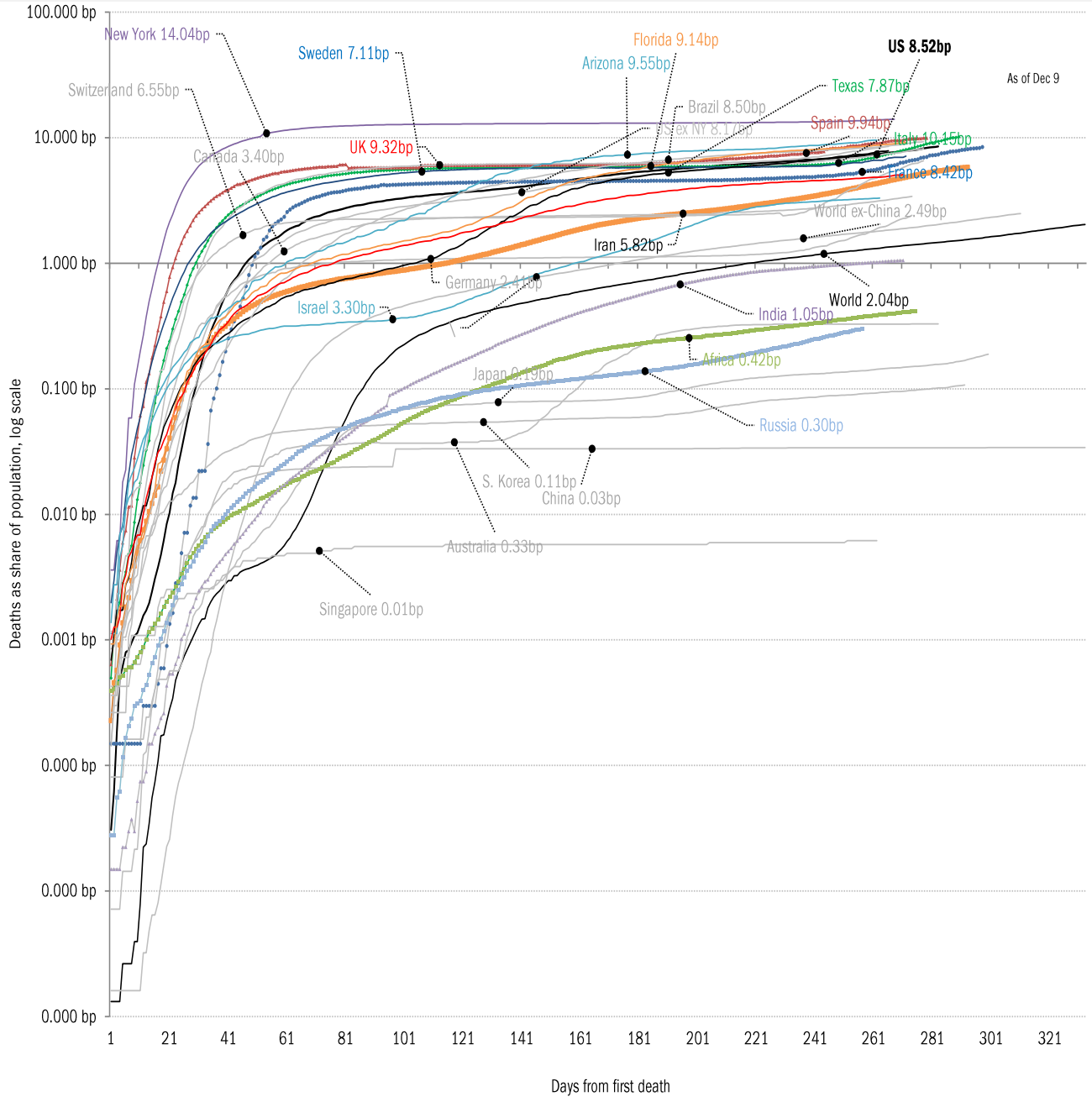
Share of infected population from first day with 100 confirmed cases, log scale



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

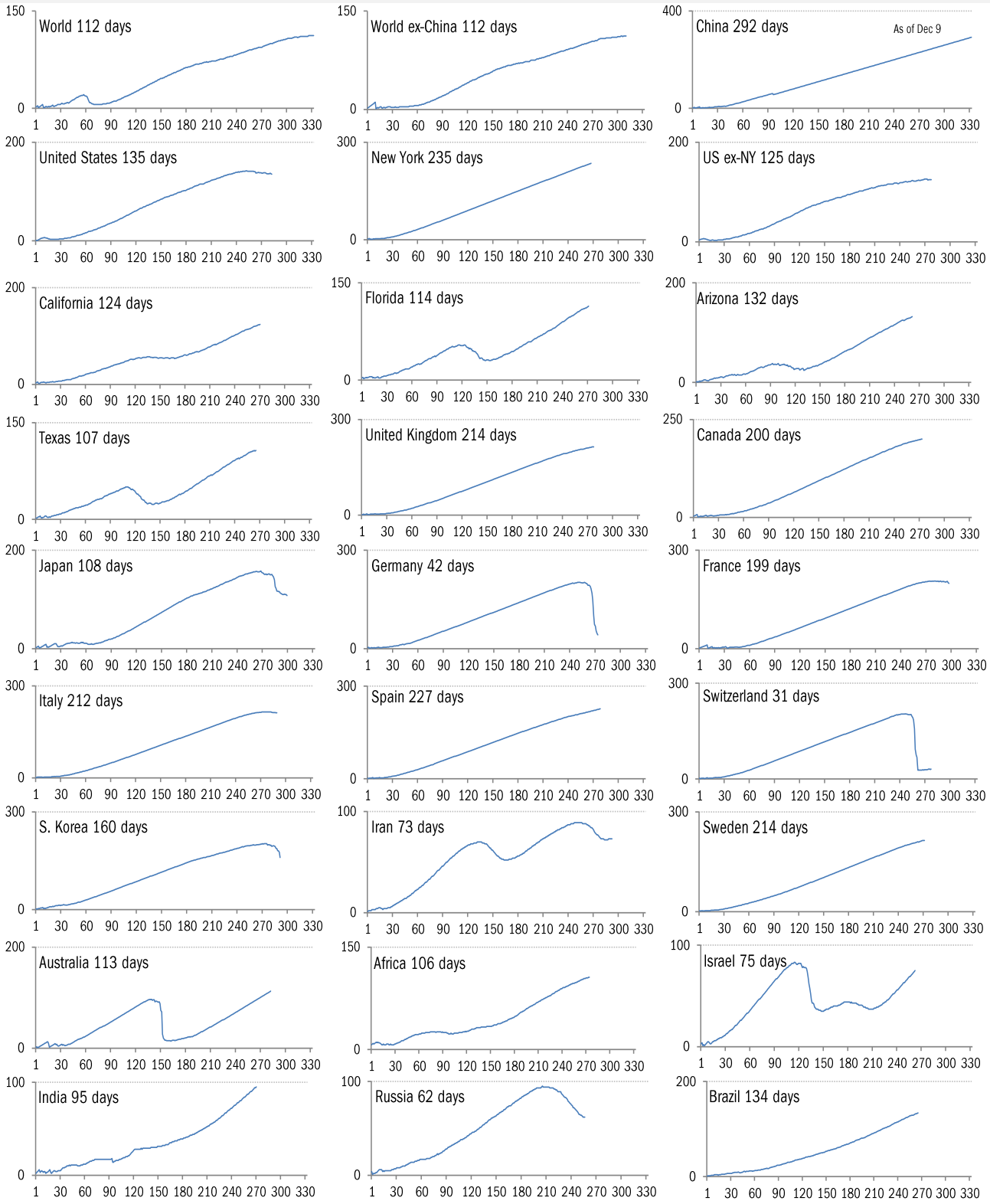


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

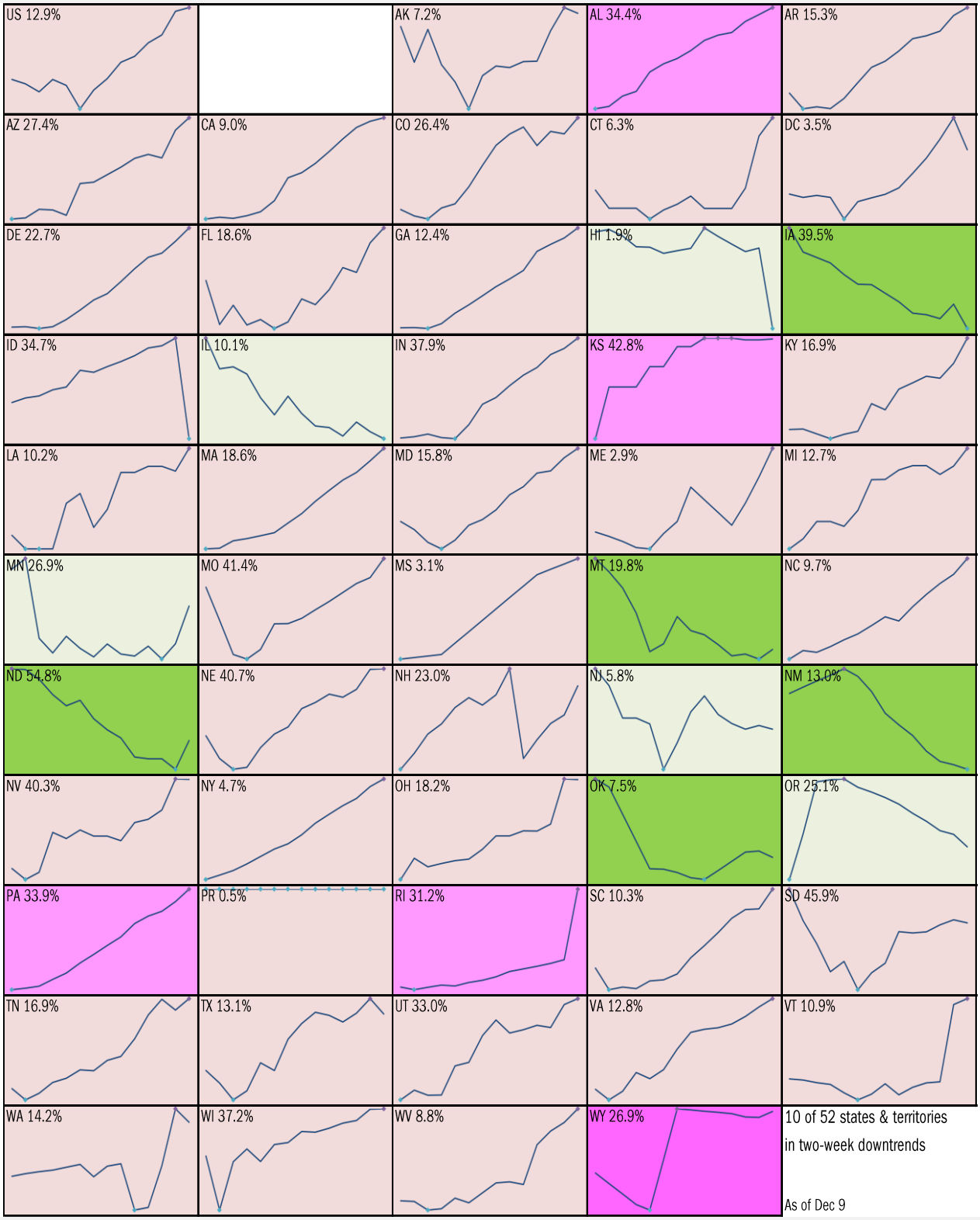
Downward trajectory Five best Upward trajectory Five worst

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

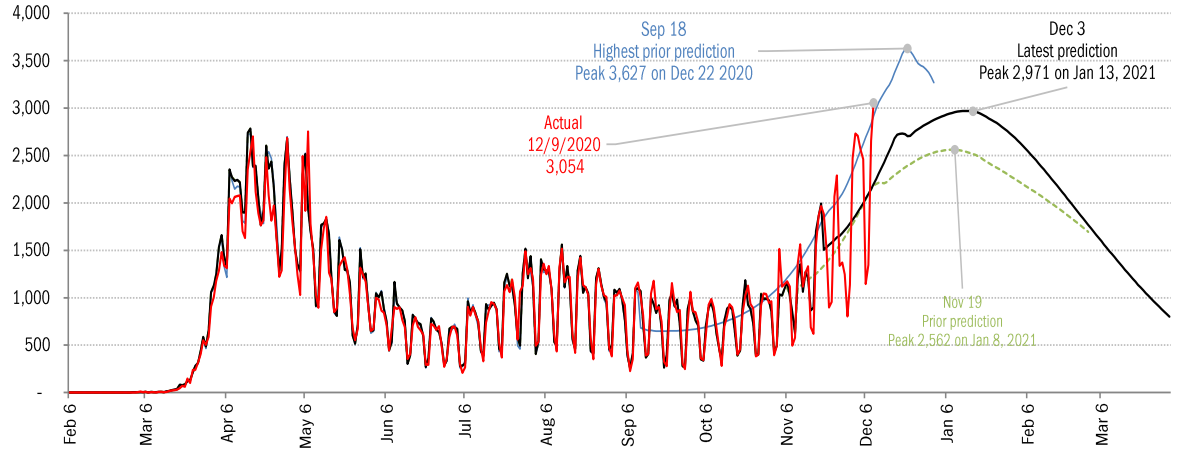


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

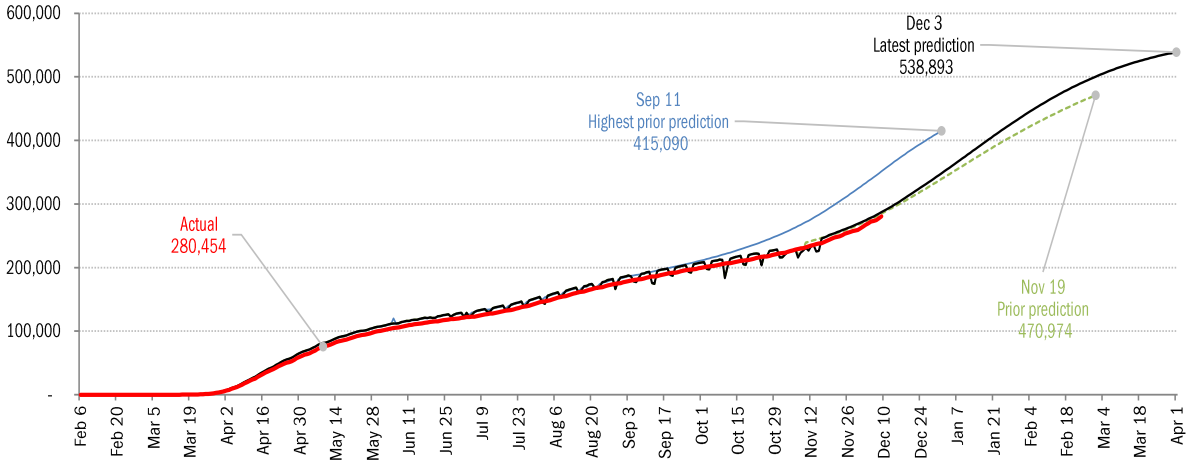
New daily fatalities As of Dec 9

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

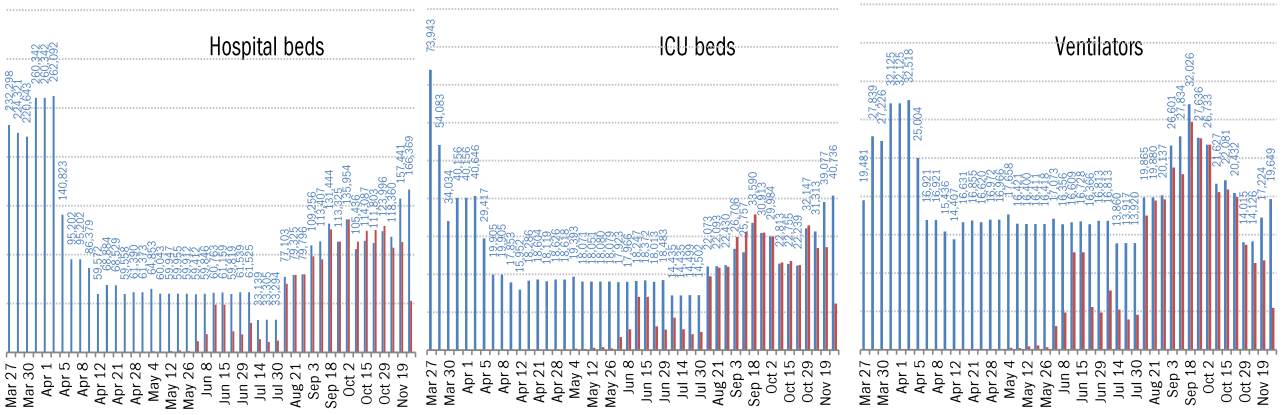


Cumulative fatalities

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

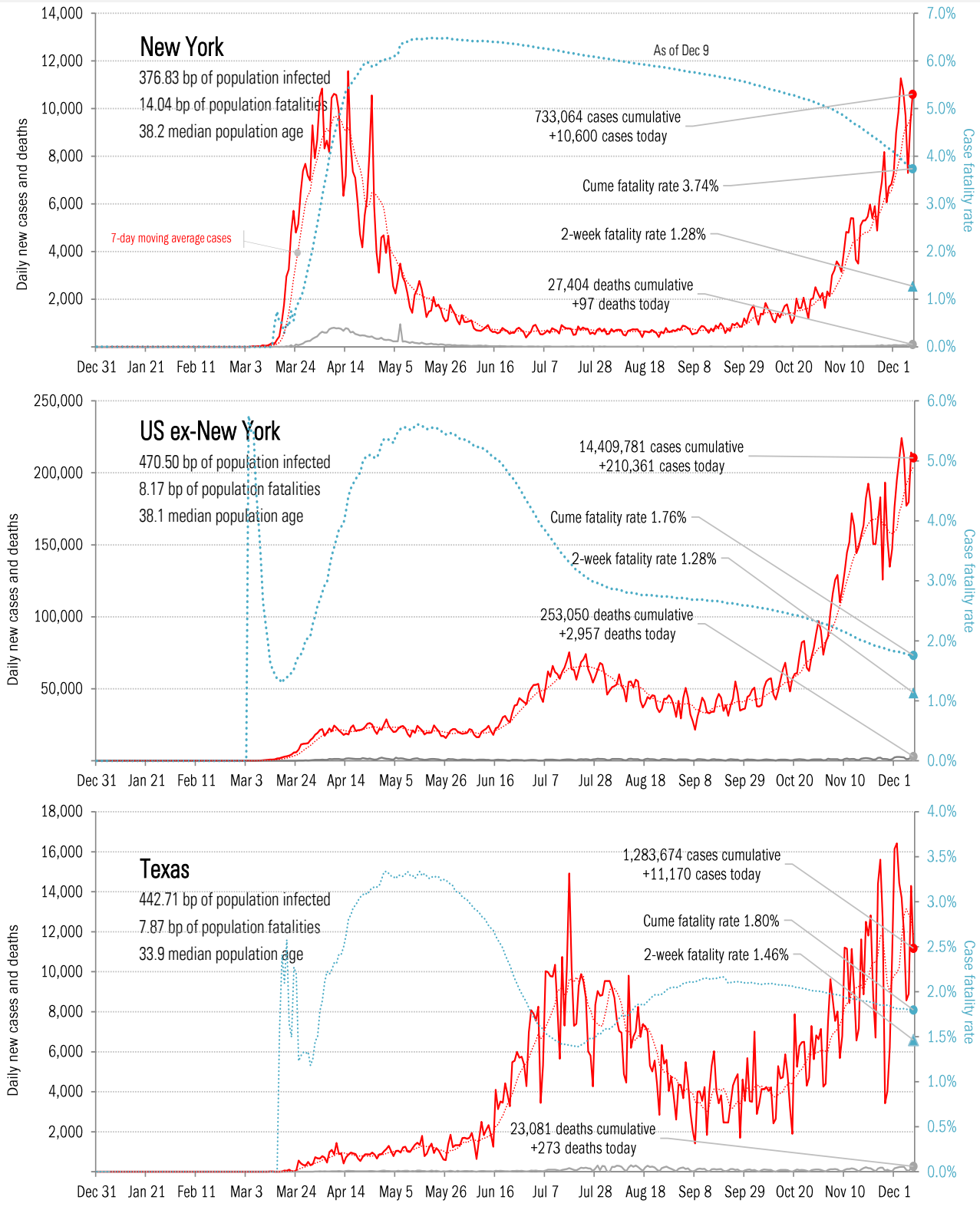


Healthcare system stress, peak and ultimate estimated at each model revision



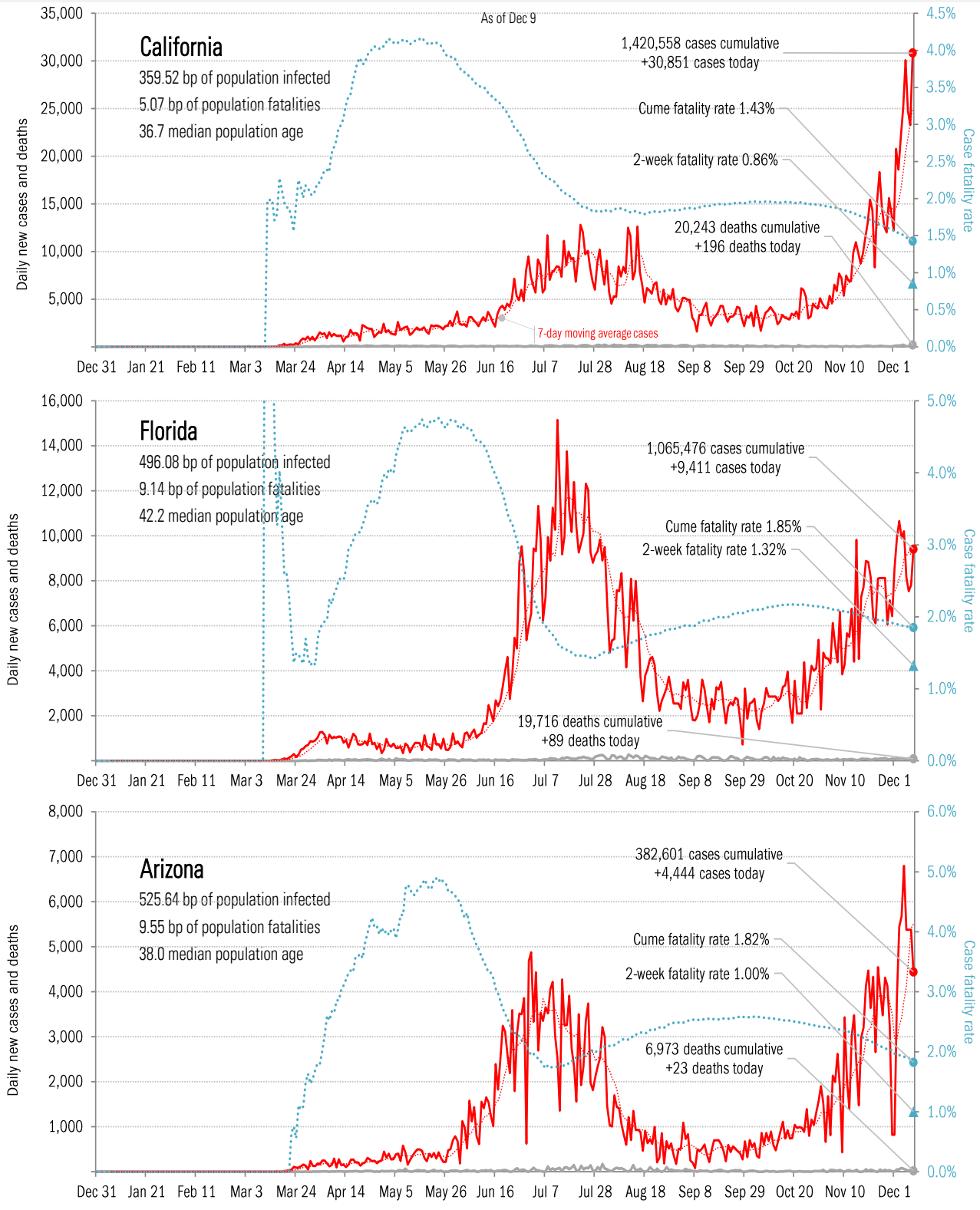
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



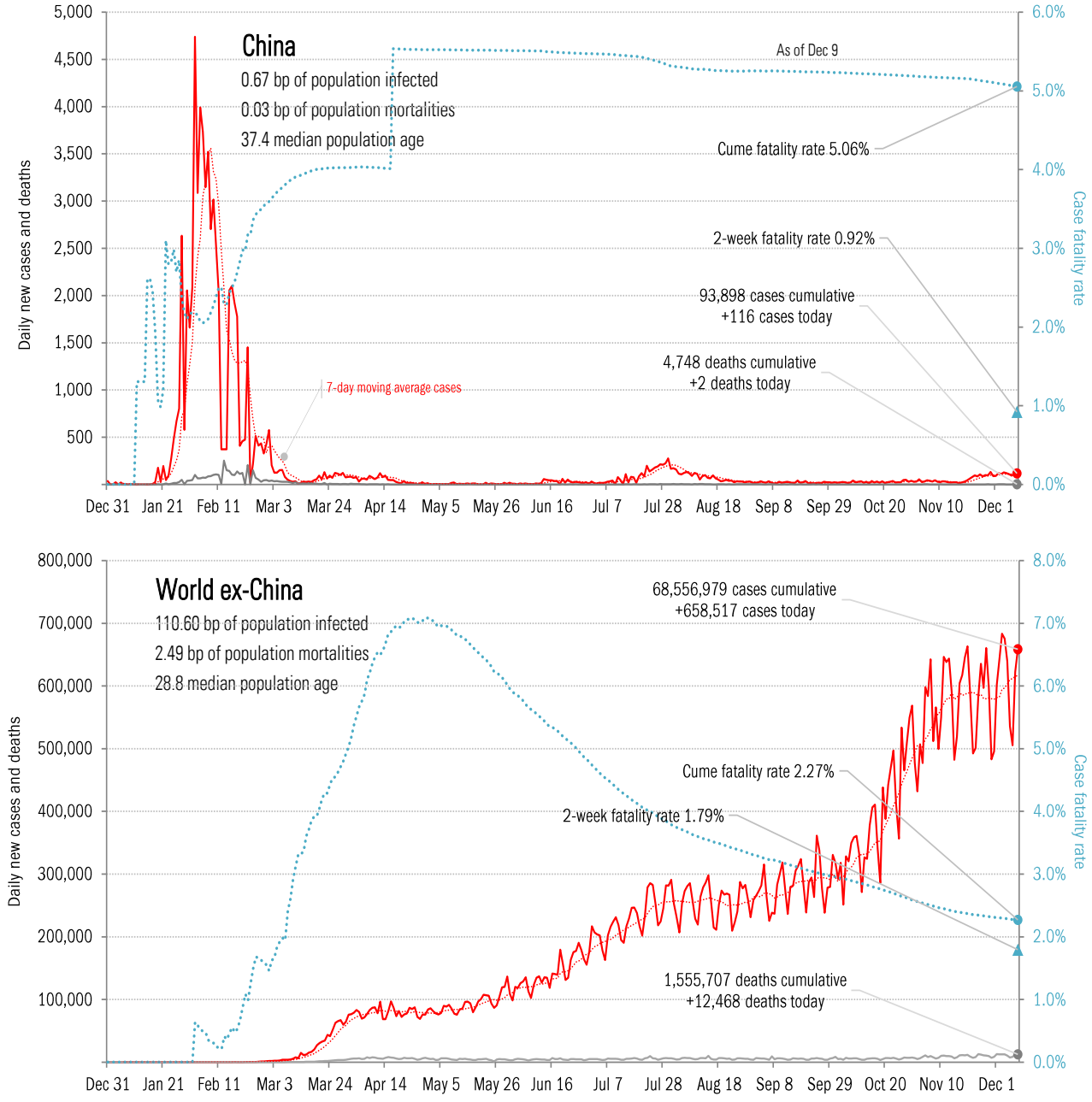
Source: Covid Tracking Project,, TrendMacro calculations

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



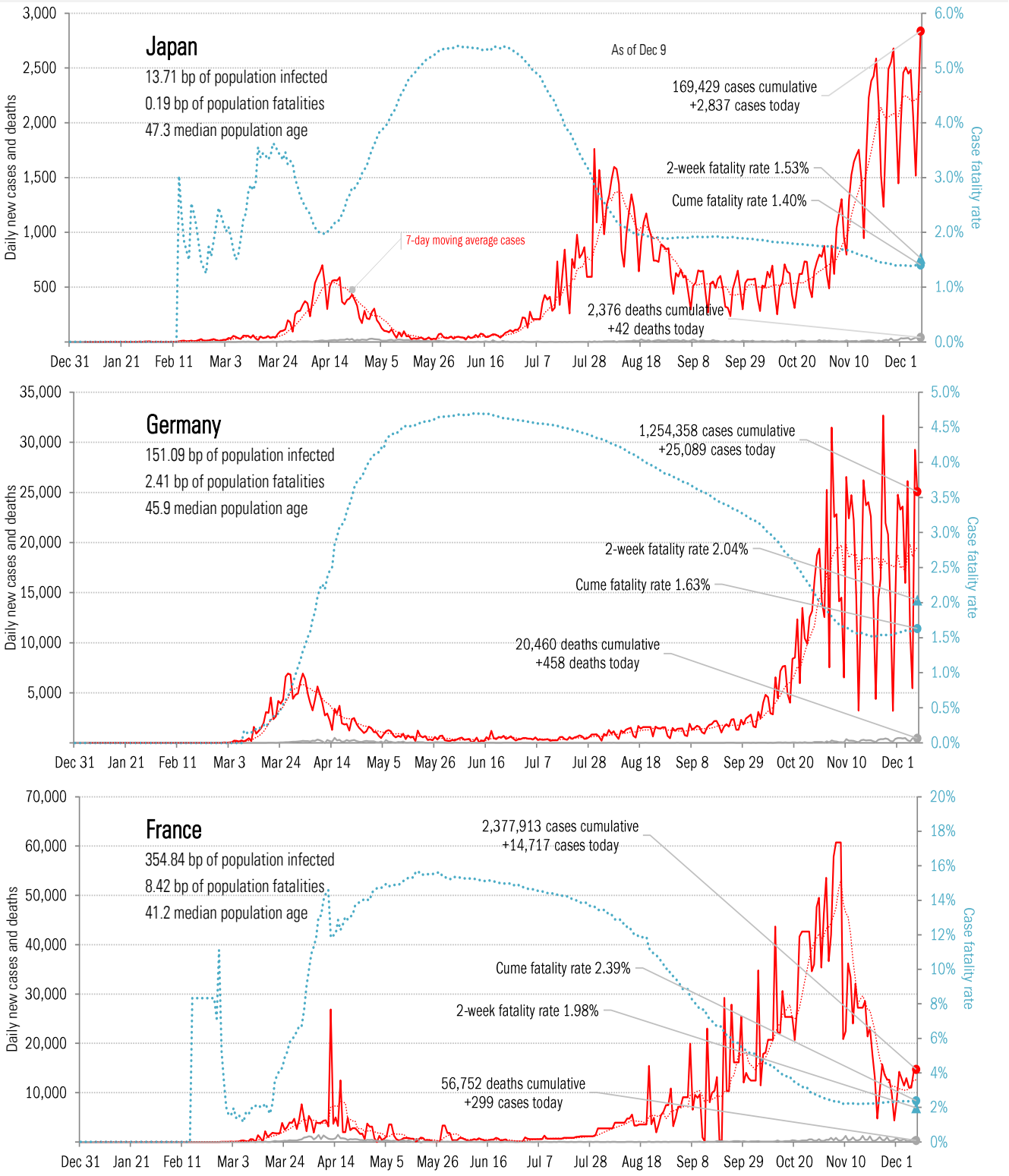
Source: Covid Tracking Project,, TrendMacro calculations

Patient zero… and then everyone else



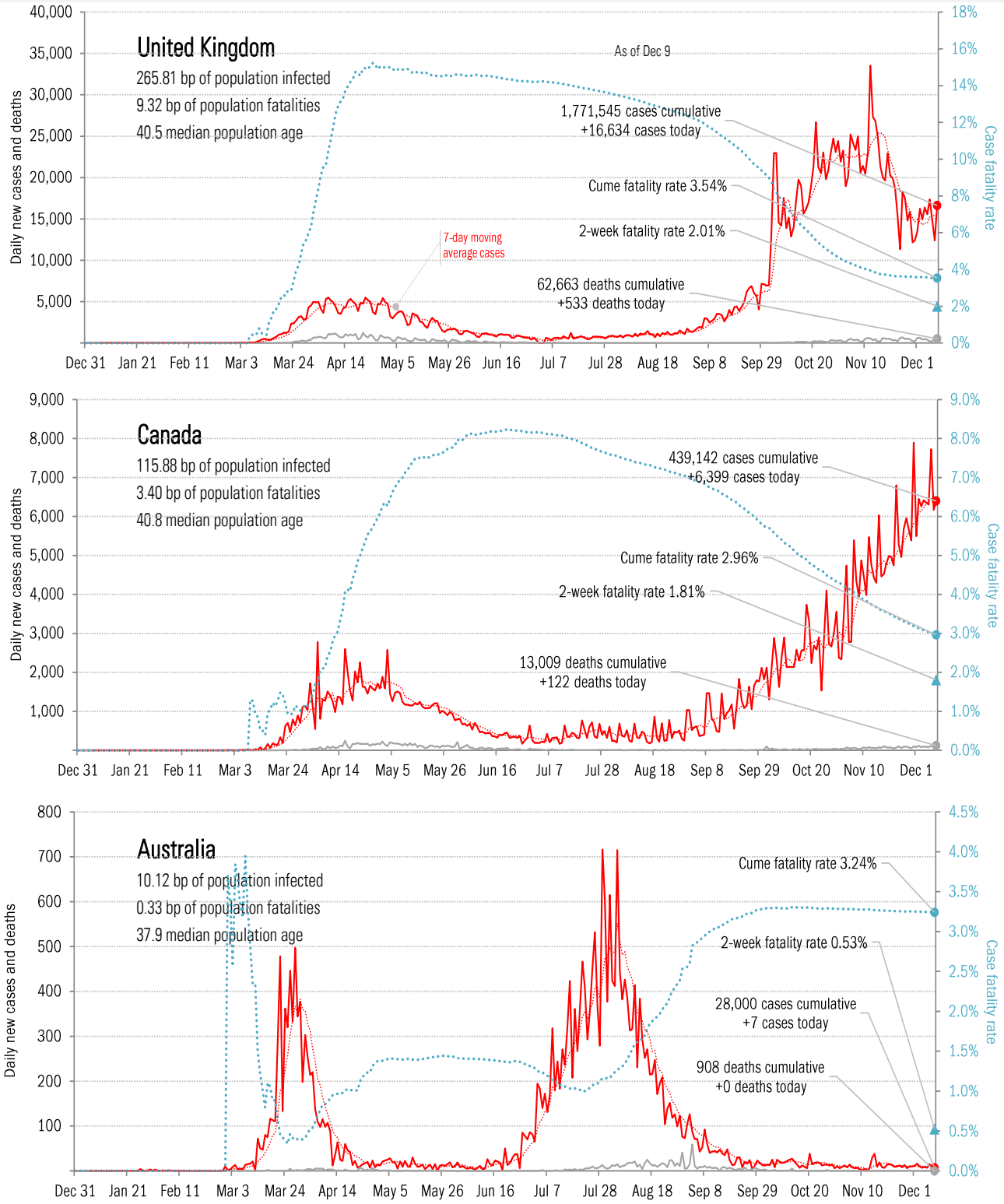
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



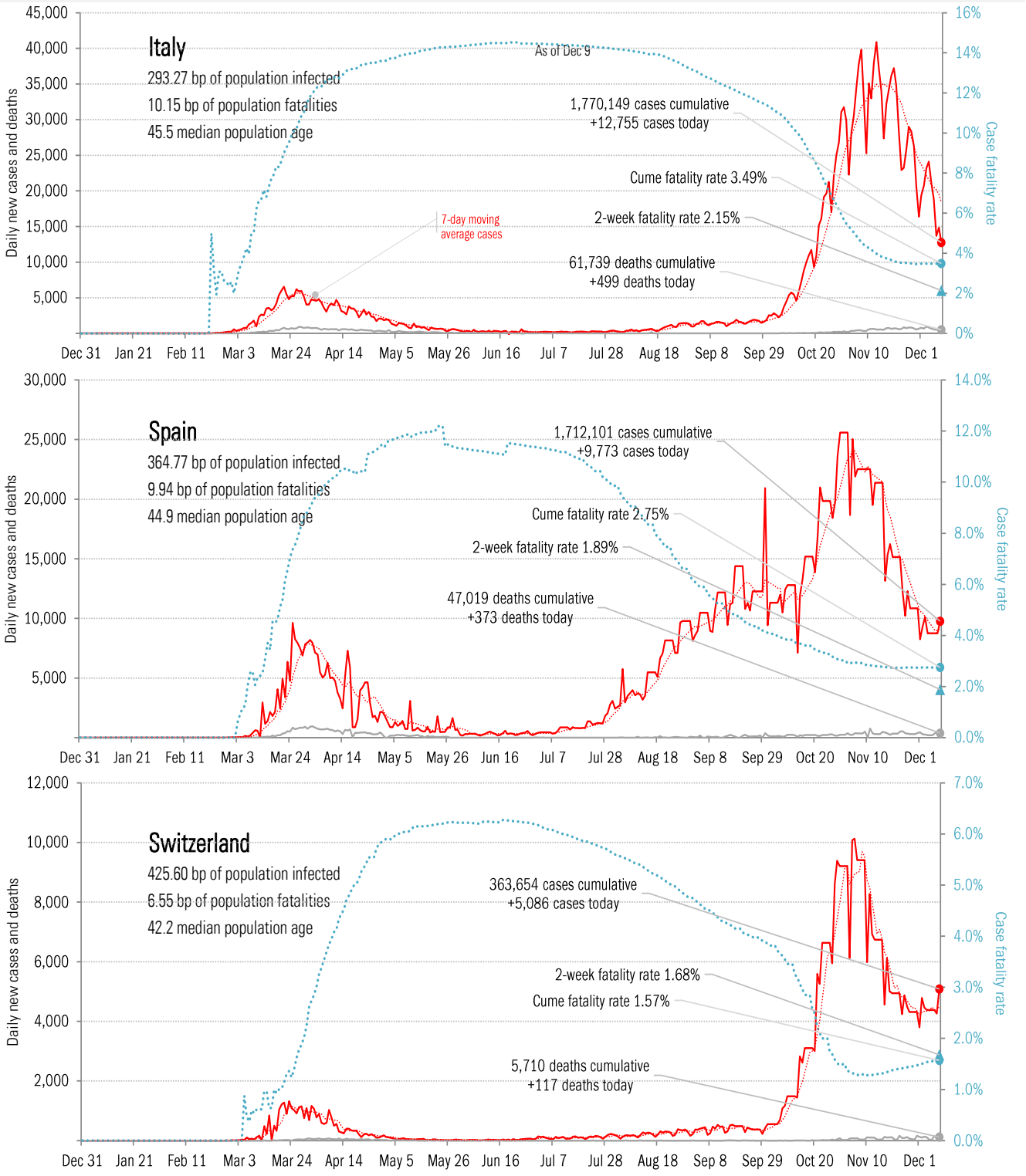
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



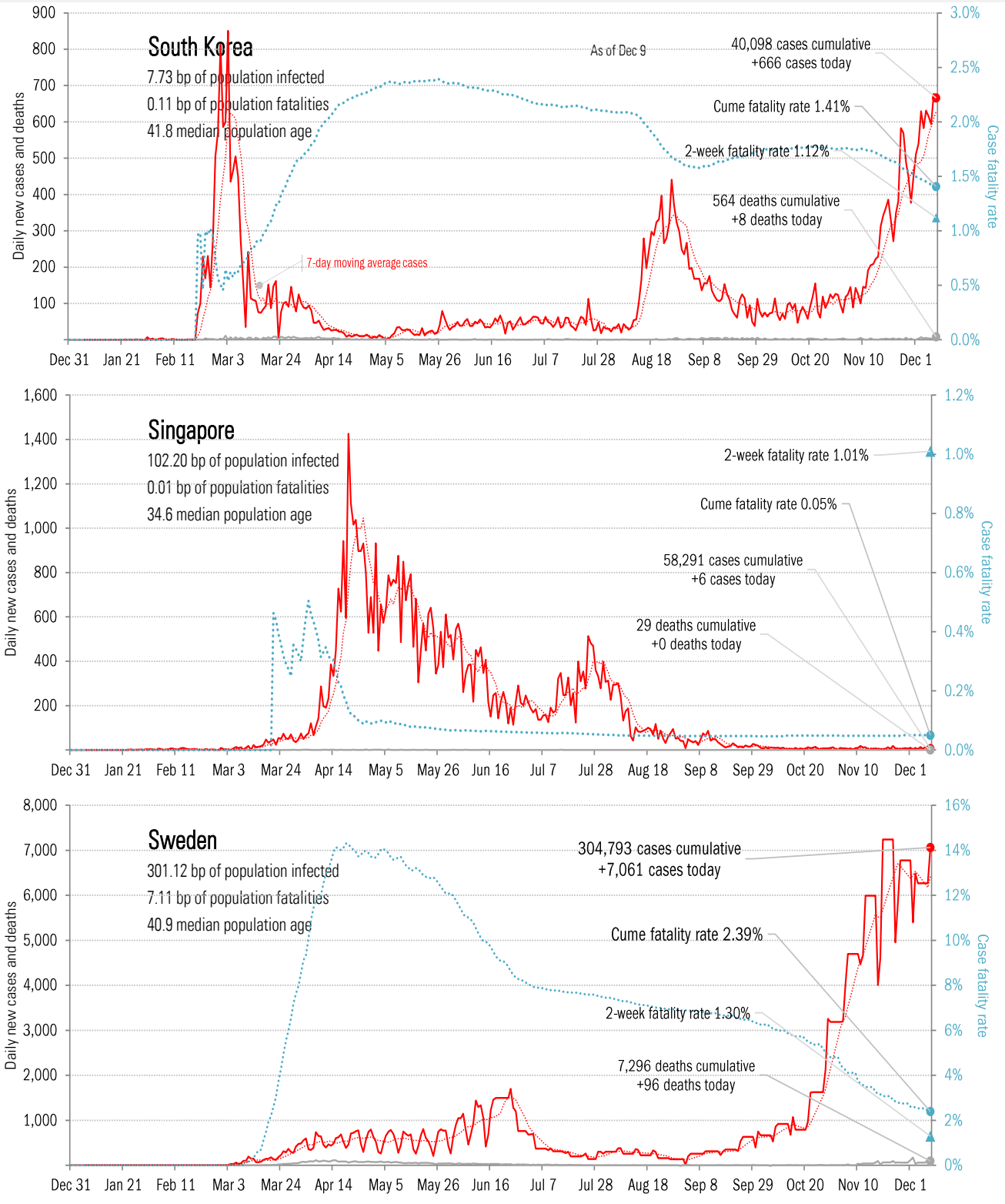
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



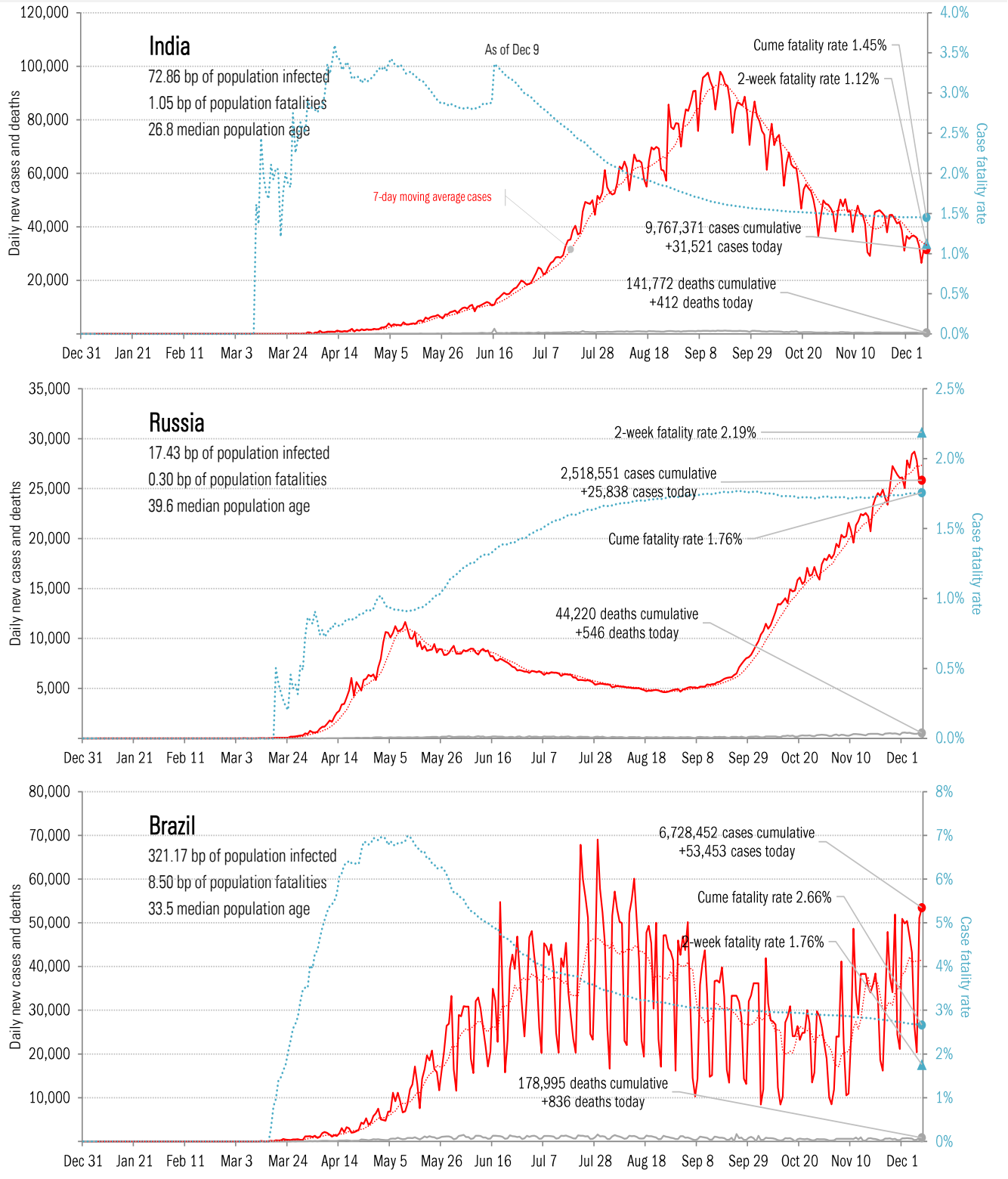
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



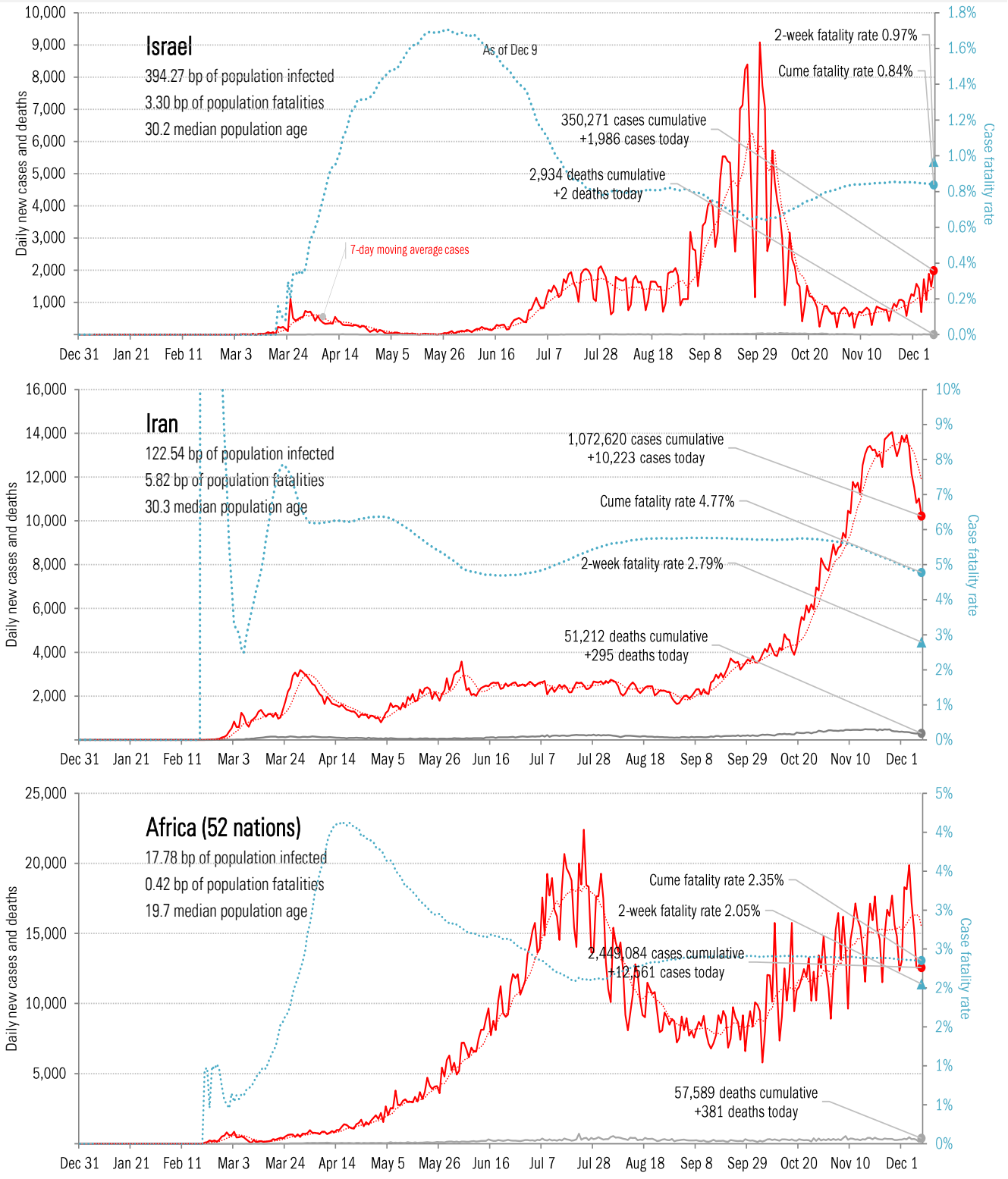
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations