Trend Macrolytics, LLC
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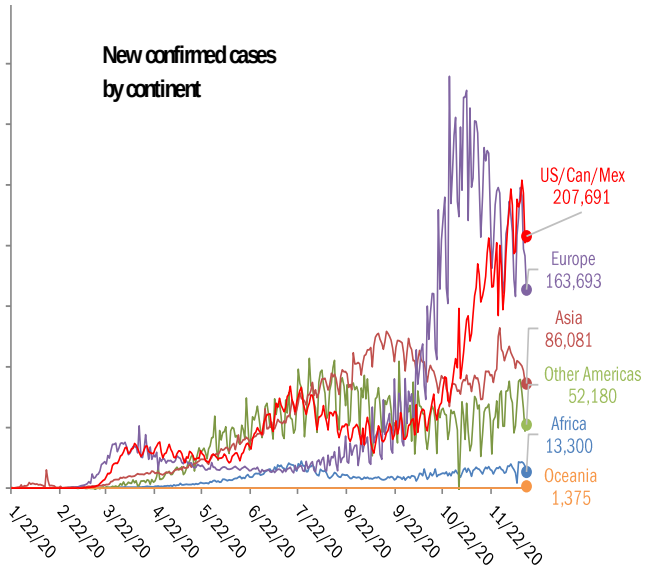
Data Insights: Covid-2019 Monitor

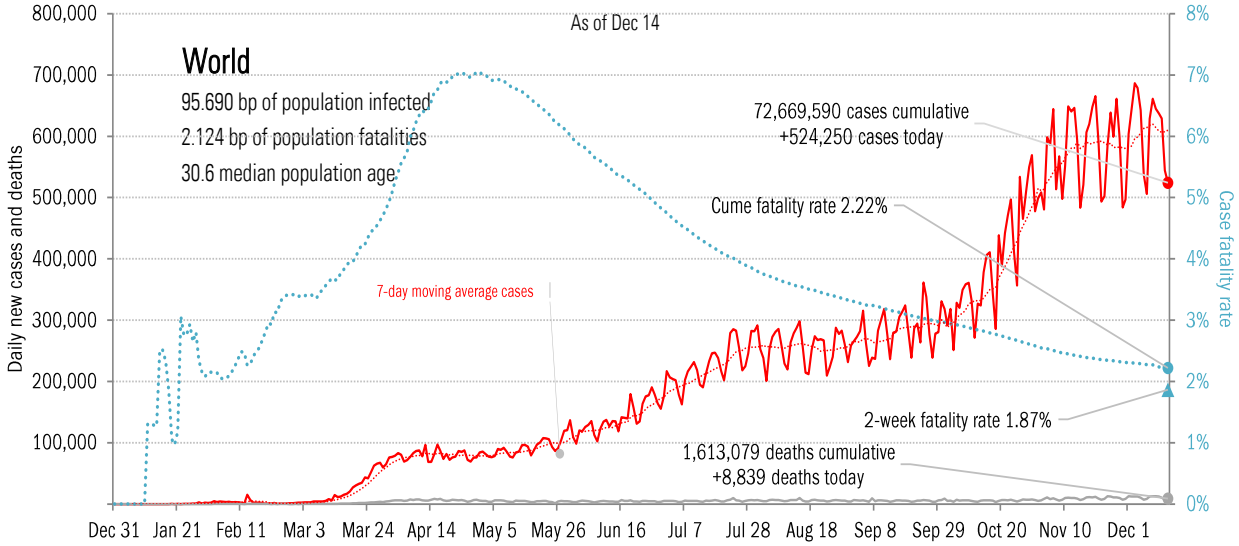
Tuesday, December 15, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+193,384	United States	+1,358
Turkey	+29,617	Germany	+528
Russia	+26,902	Italy	+491
Brazil	+25,193	Russia	+442
India	+22,065	Brazil	+433
#N/A	+21,309	Spain	+389
#N/A	+20,377	France	+376
#N/A	+12,025	India	+354
Switzerland	+10,726	Mexico	+345
Colombia	+8,742	Uruguay	+297
	+370,340		+5,013
World	+524,250	World	+8,839
Top ten	71%	Top ten	57%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

For more information contact us:
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The US scorecard

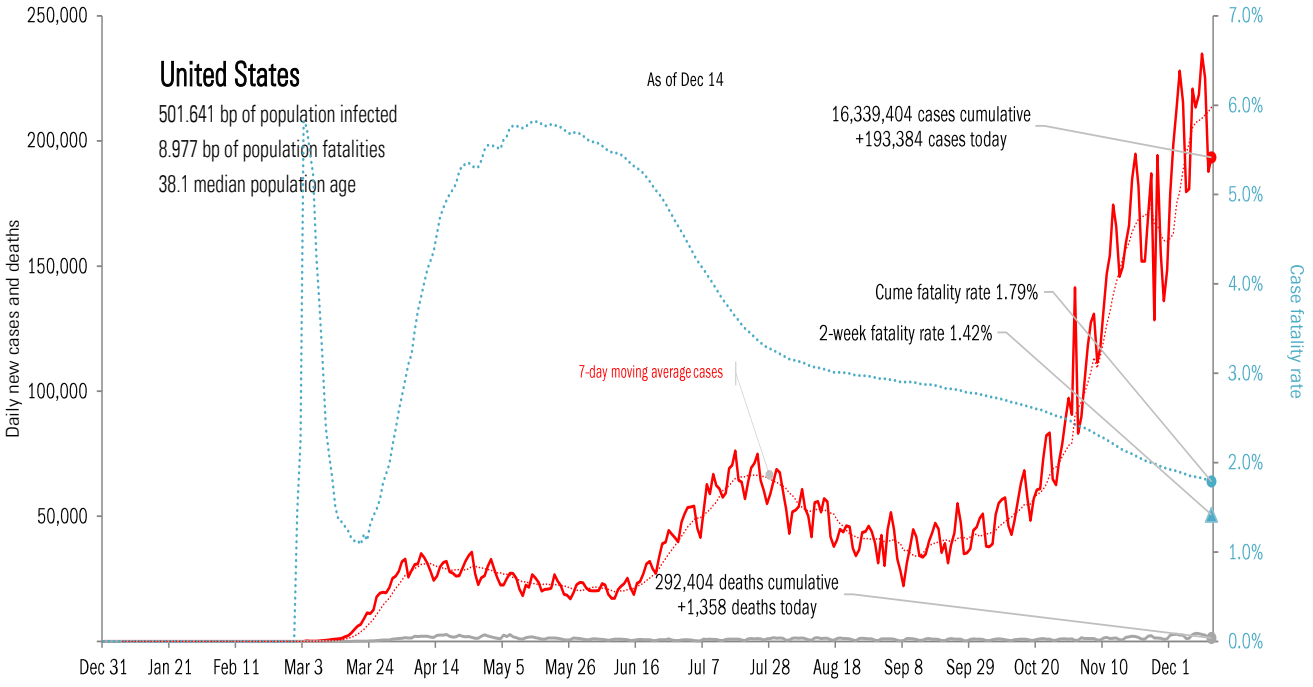
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
CA	+33,278	FL	+138	CA	+618	CA	1,585,044	NY	27,870	NY	89,995
AZ	+11,806	IL	+116	NY	+302	TX	1,481,612	TX	23,937	FL	59,033
TN	+9,959	MI	+94	FL	+245	FL	1,115,446	CA	21,046	NJ	43,911
NY	+9,044	NY	+85	NV	+202	IL	856,118	FL	20,271	GA	37,737
TX	+8,901	CT	+81	VA	+106	NY	784,204	NJ	17,775	OH	32,264
FL	+8,343	TN	+79	GA	+101	OH	570,602	IL	15,455	AZ	31,142
PA	+7,962	CA	+77	MA	+81	PA	499,764	PA	12,620	IN	31,035
OH	+7,875	IA	+60	TN	+80	GA	479,340	MA	11,388	AL	28,913
MI	+7,621	OH	+59	TX	+74	MI	472,780	MI	11,289	MD	23,558
CT	+7,231	PA	+55	MD	+63	WI	471,285	GA	10,104	MN	19,638
	+112,020		+844		+1,872		8,316,195		171,755		397,226
All states	+193,384	All states	+1,358	All states	+1,251	All states	16,339,404	All states	292,404	All states	618,576
Top ten	58%	Top ten	62%	Top ten	150%	Top ten	51%	Top ten	59%	Top ten	64%

Some states not reporting

Five most improved US states

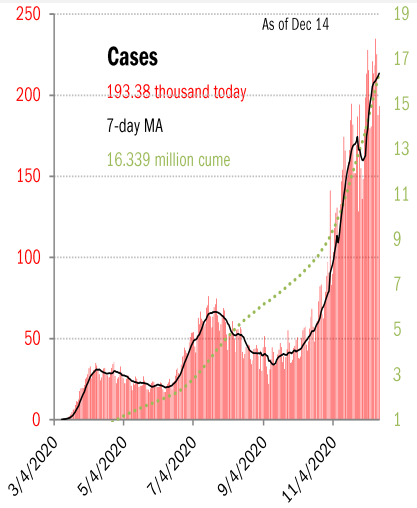
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
LA	-3,392	TX	-85	KS	-445	NC	+24,232
PA	-2,722	CO	-76	MN	-178	MS	+11,839
OK	-2,233	PA	-74	IL	-147	PA	+10,815
NC	-2,049	MN	-67	MI	-91	TX	+9,251
WA	-1,853	CA	-45	OH	-71	IN	+6,848

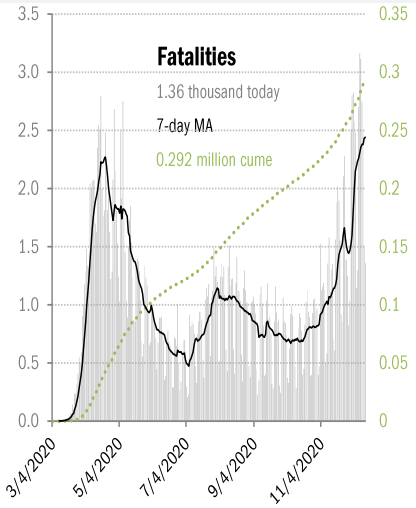


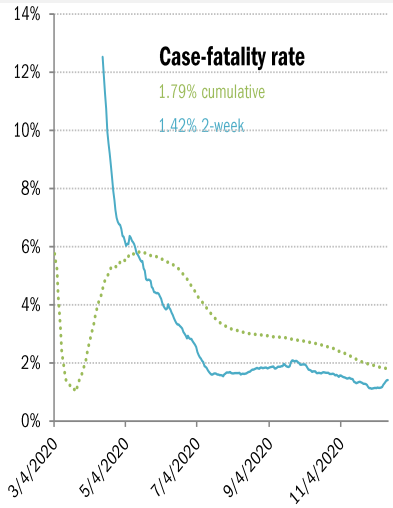
Source: Covid Tracking Project, TrendMacro calculations

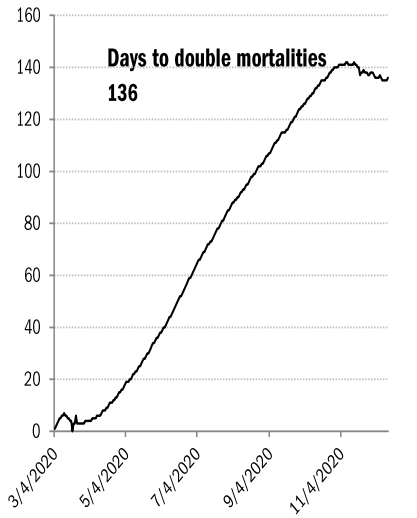
US deep-dive

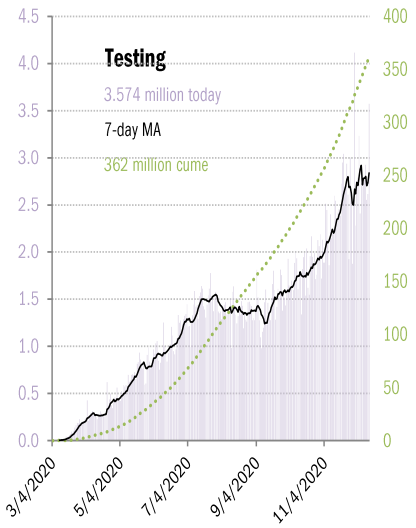
National and state-by-state data do not line up because of different sources

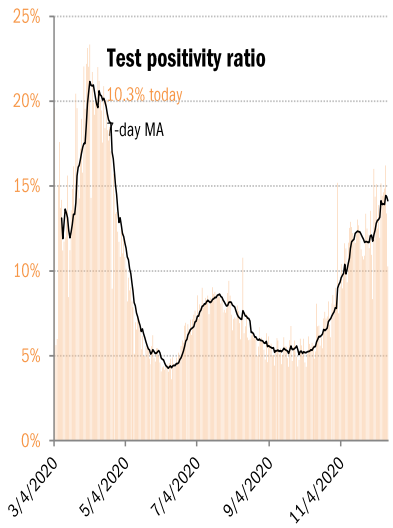


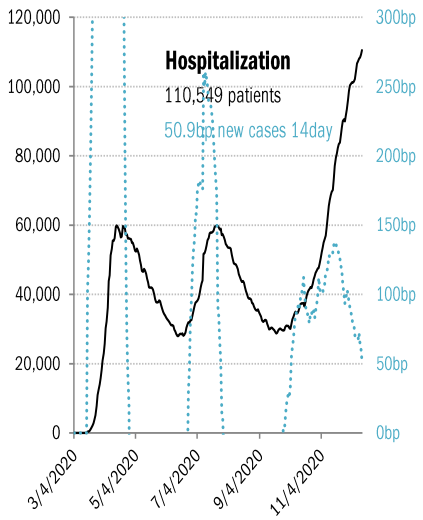


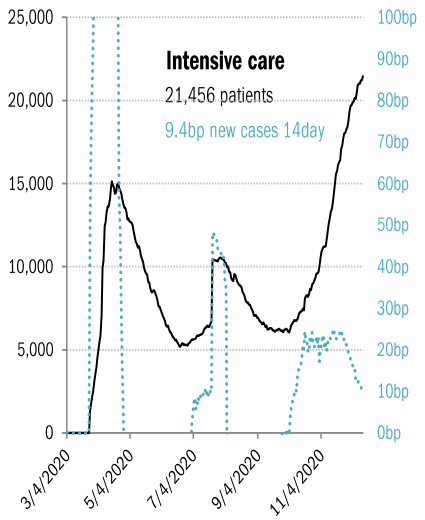


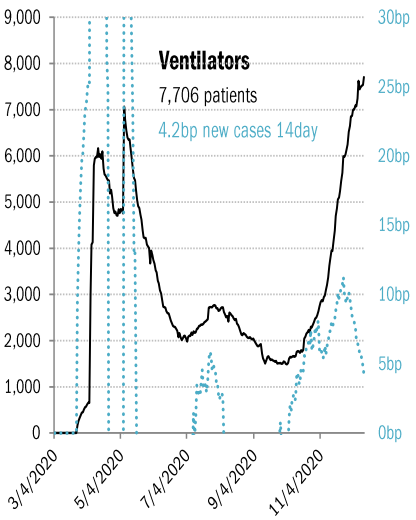






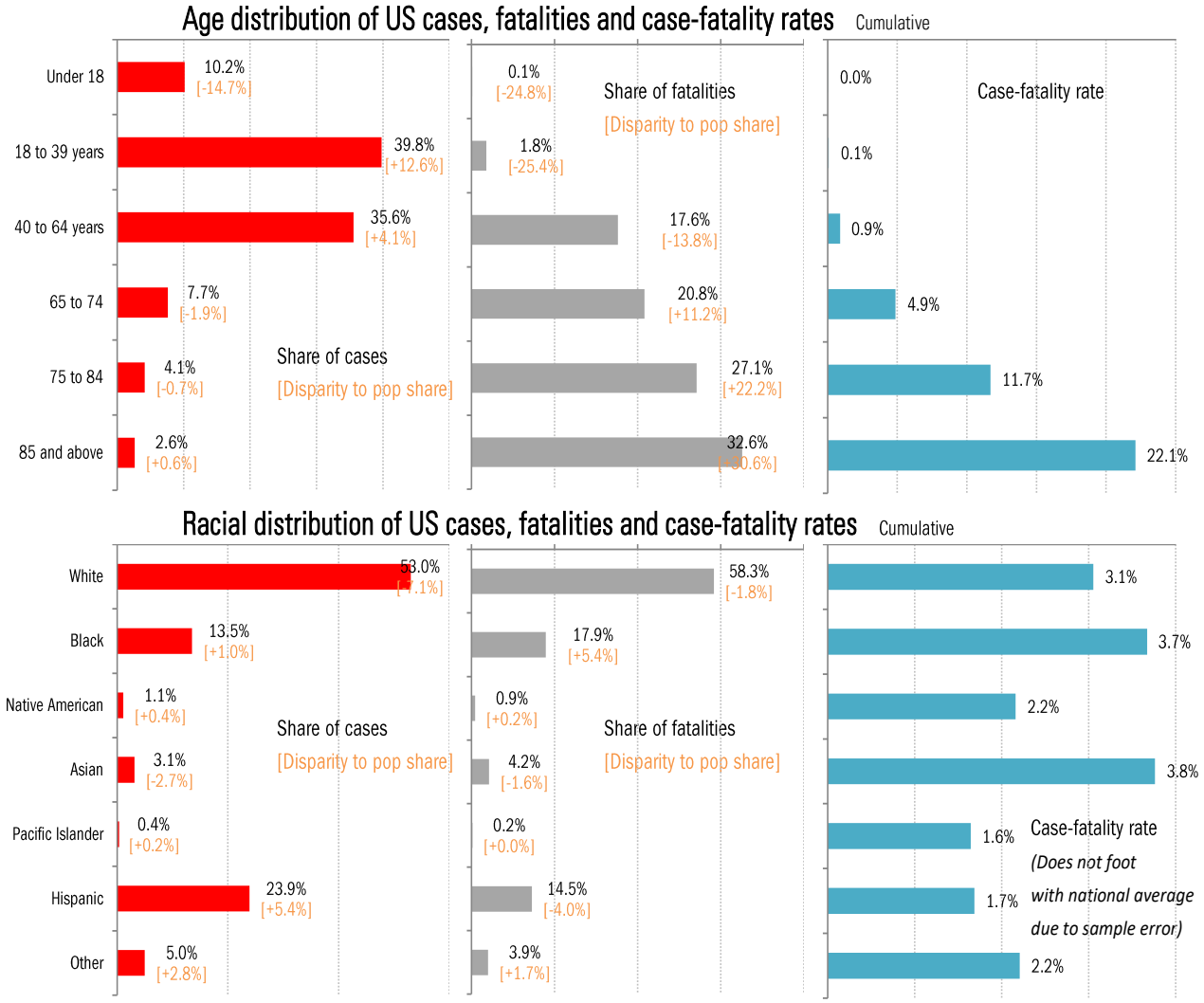




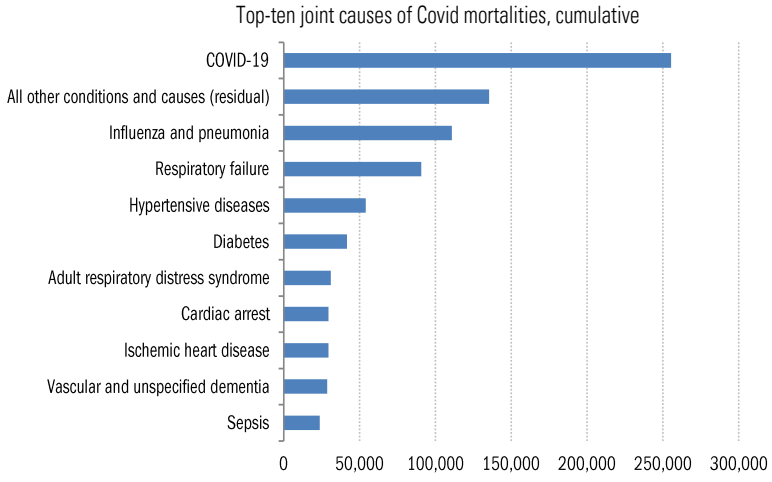


Source: Covid Tracking Project, TrendMacro calculations

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

[An Internal Medicine Doctor and His Peers Read the Pfizer Vaccine Study and See Red Flags]
Yves Smith
Naked Capitalism
December 14, 2020

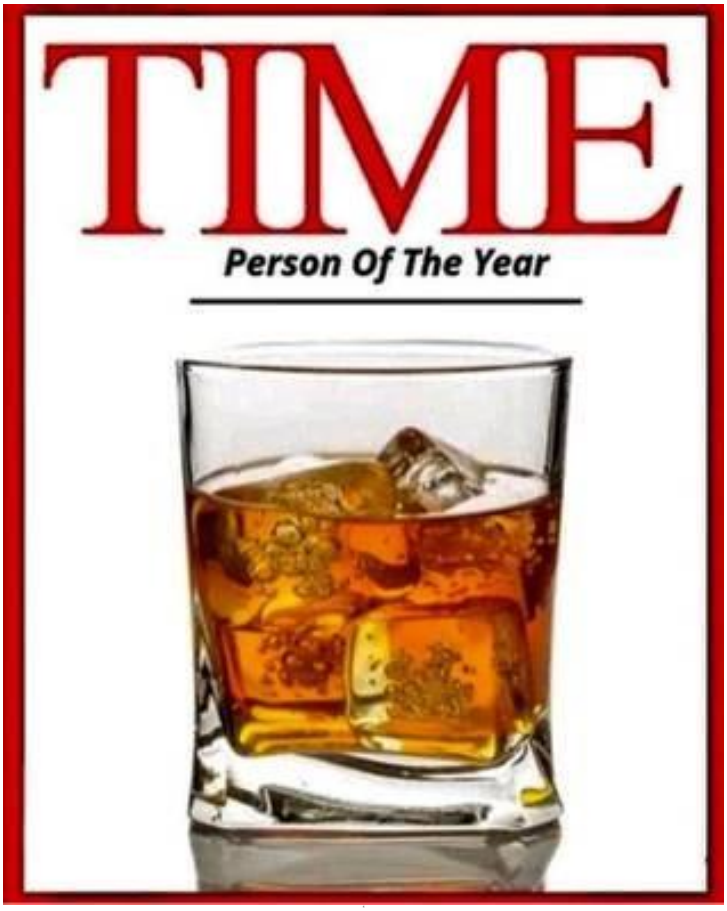
[Companies part of group founded by CA governor collectively get nearly $3 million in PPP loans, data shows]
Stephanie Sierra and Lindsey Feingold
ABC7 News
December 9, 2020

[Safety and Efficacy of the BNT162b2 mRNA Covid-19 Vaccine]
Fernando P. Polack et al.
New England Journal of Medicine
December 10, 2020

[Five key genes linked to severe COVID-19 found, suggesting drug targets]
Kate Kelland 3 MIN READ
Reuters
December 12, 2020

[What are the harms of lockdown?]
Sebastian Rushworth
Sebastian Rushworth
December 13, 2020

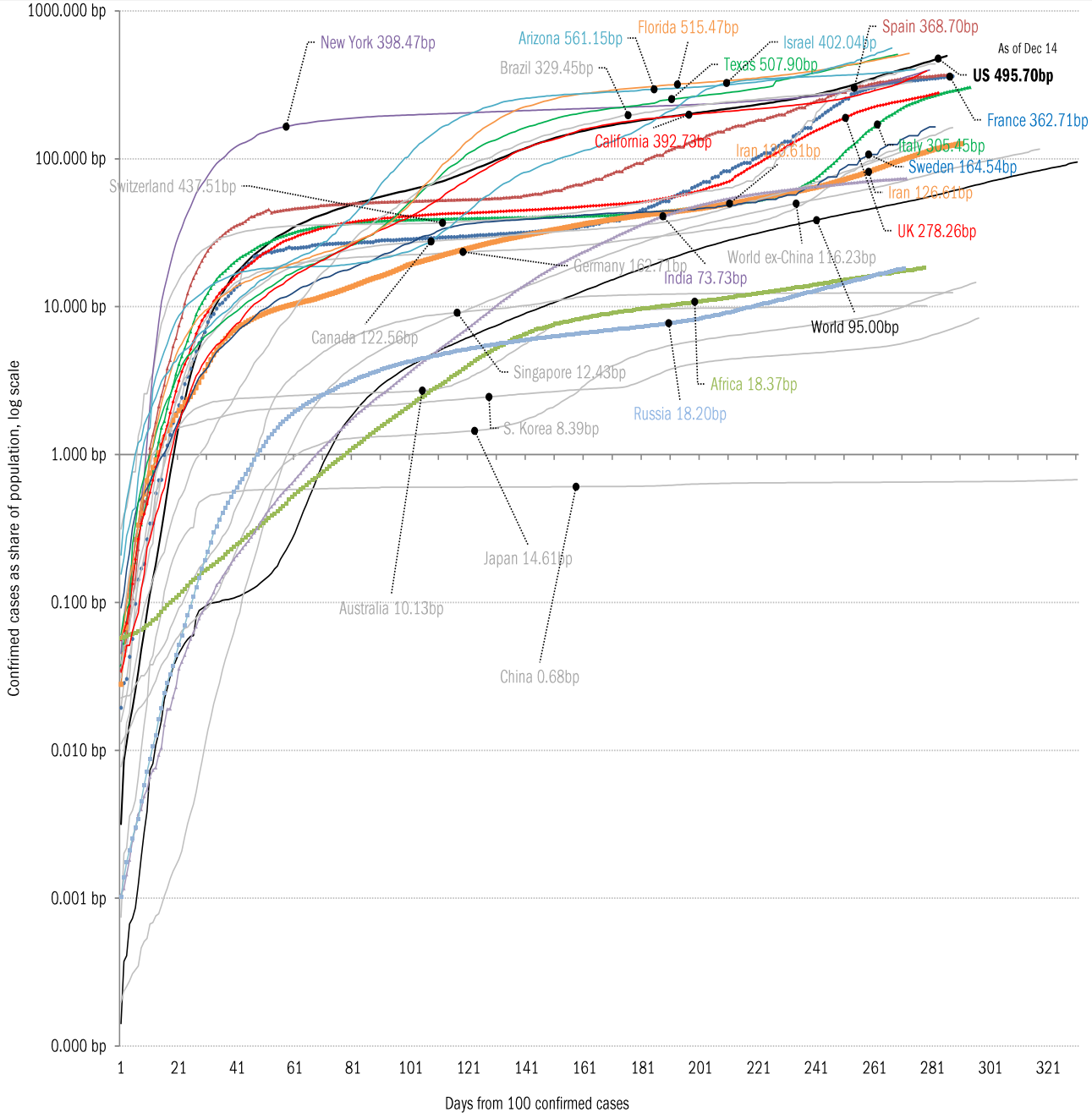
Meme of day



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

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

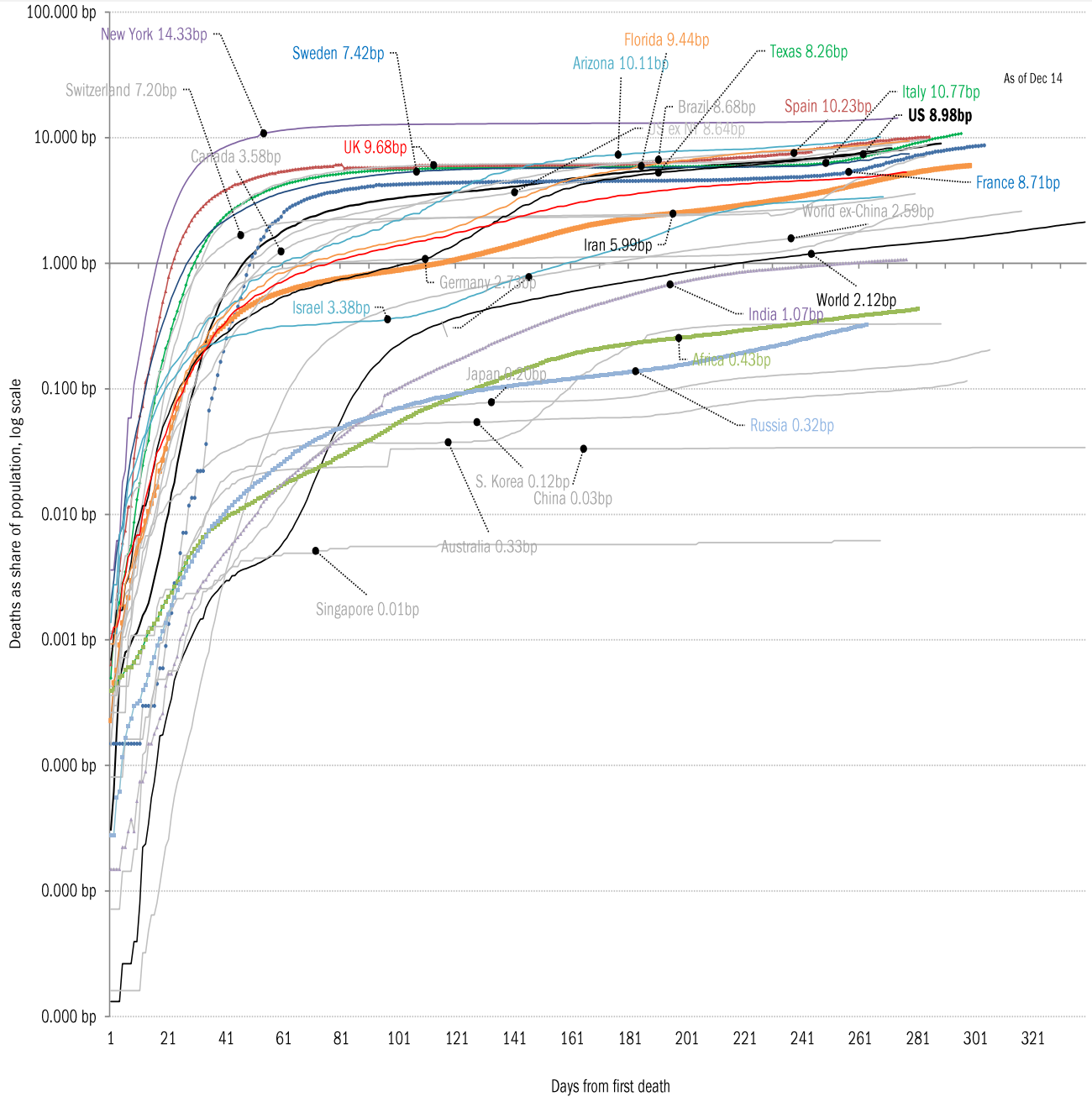
Share of infected population from first day with 100 confirmed cases, log scale



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

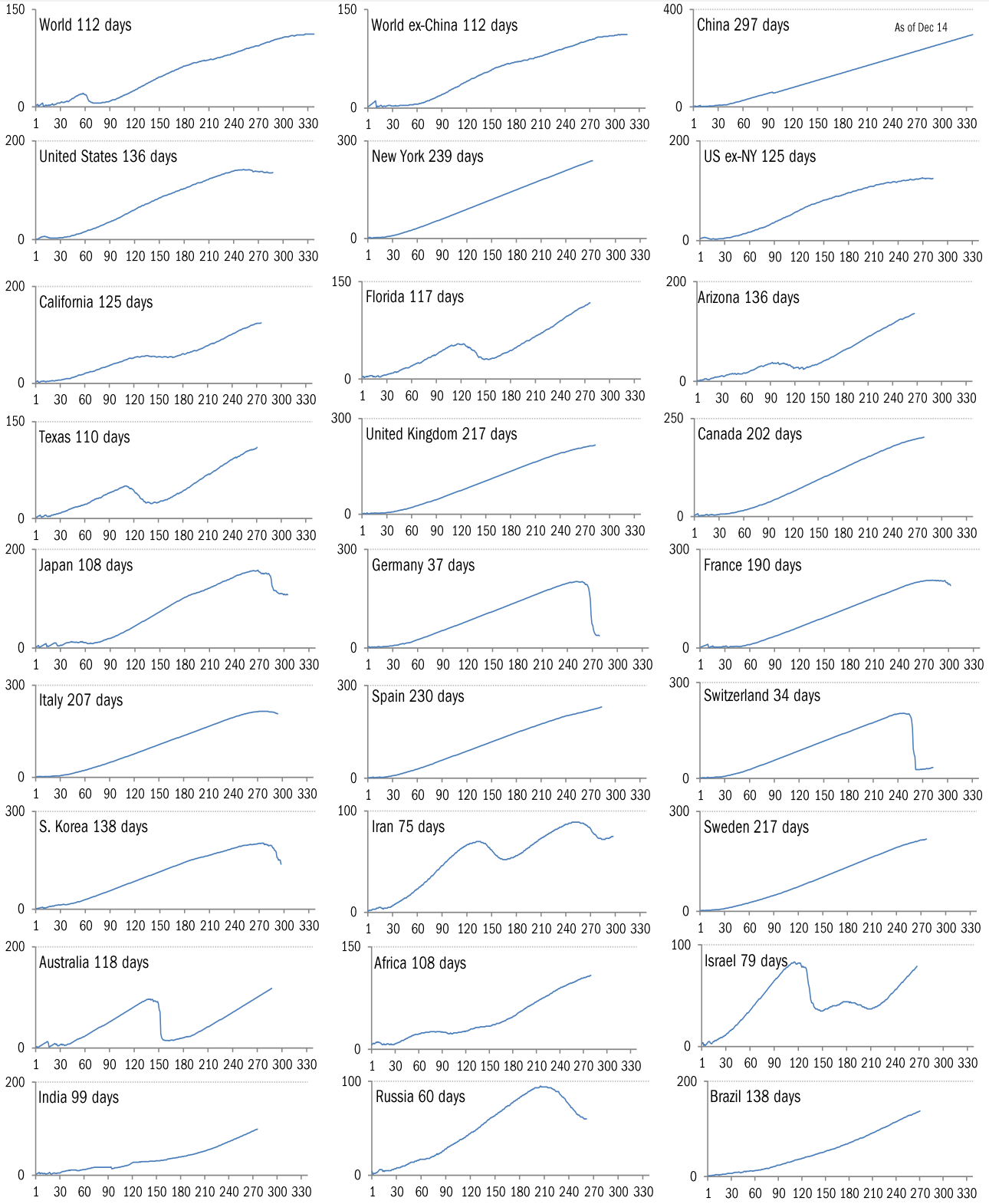


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

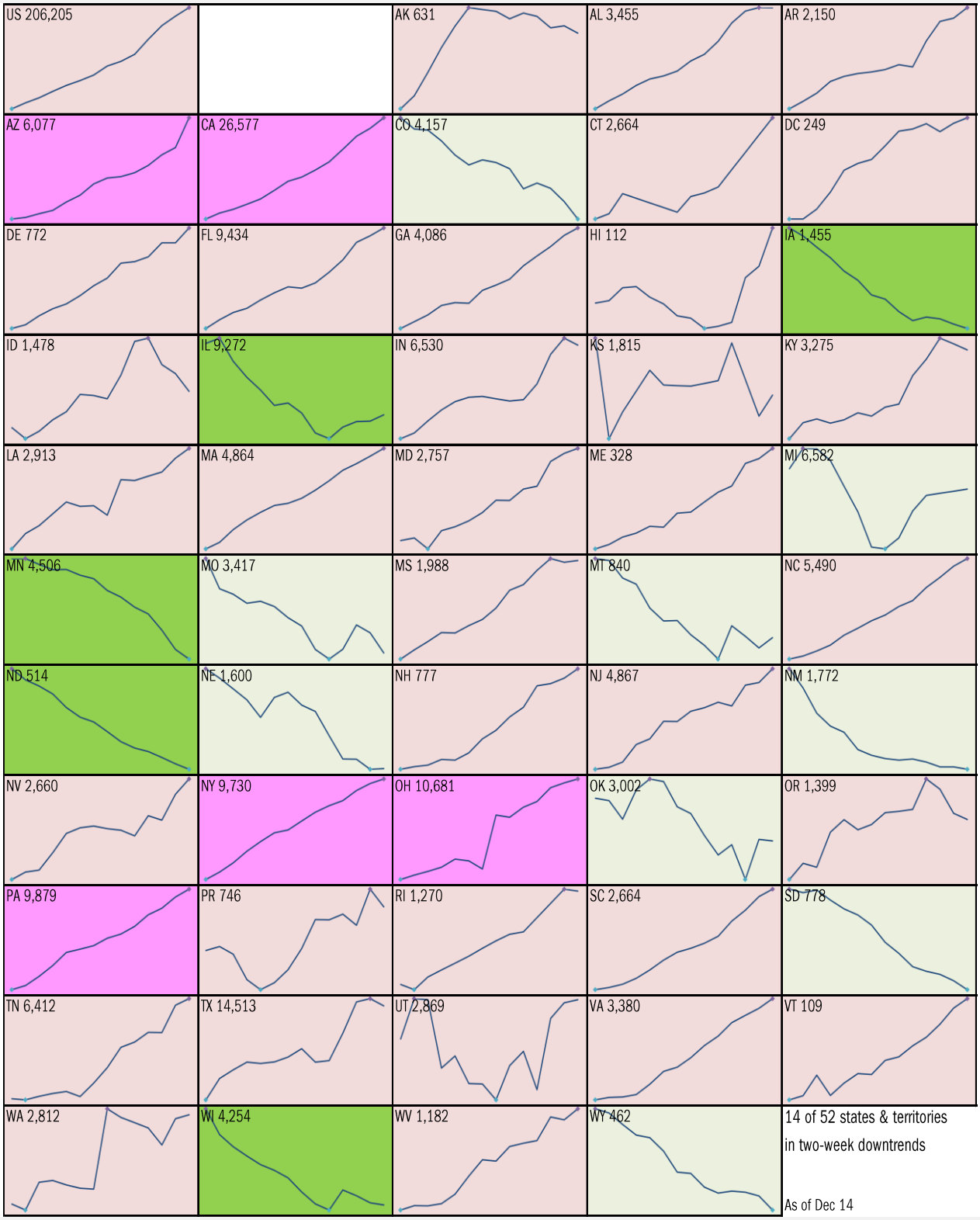


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

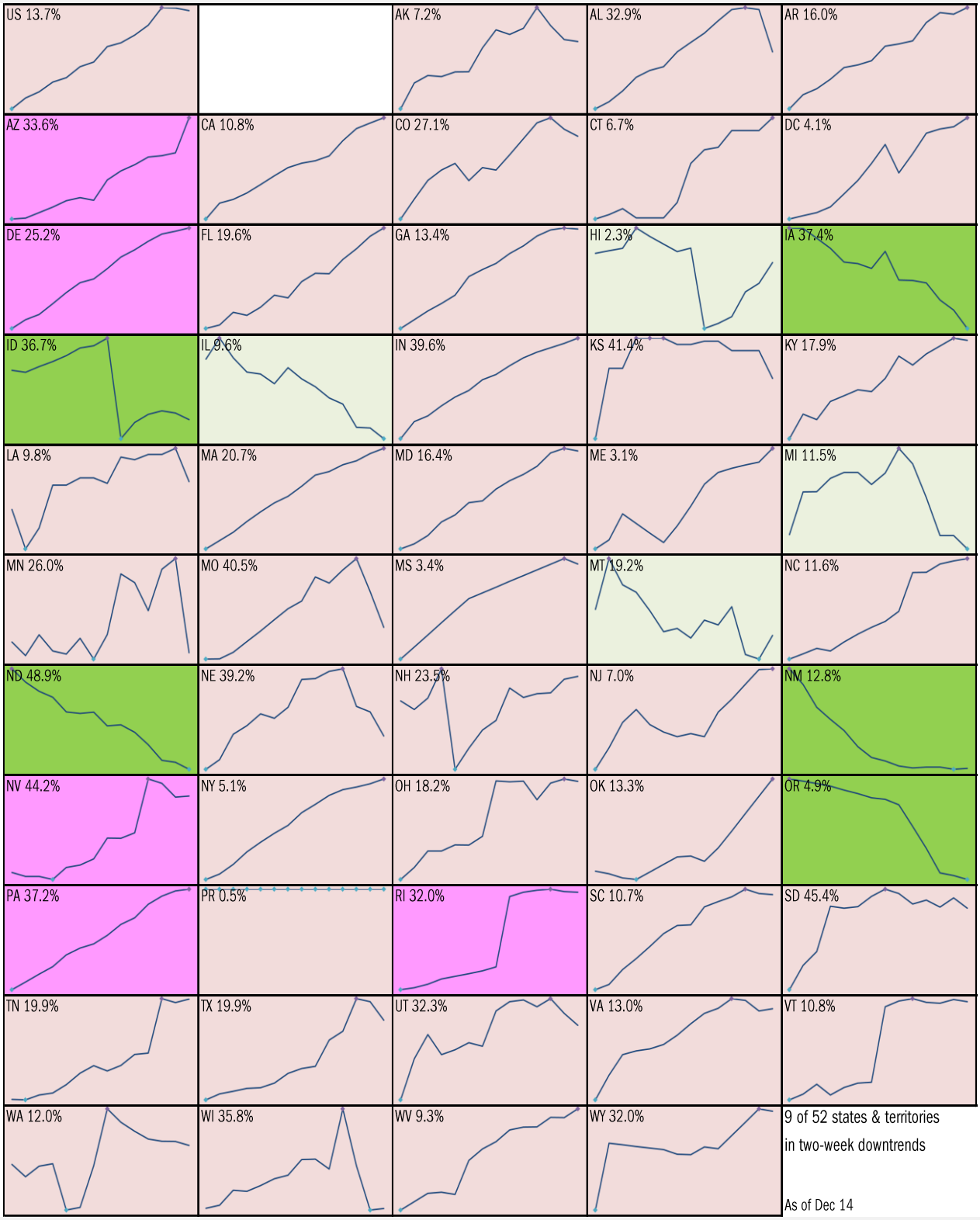


Source: Covid Tracking Project, TrendMacro calculations

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

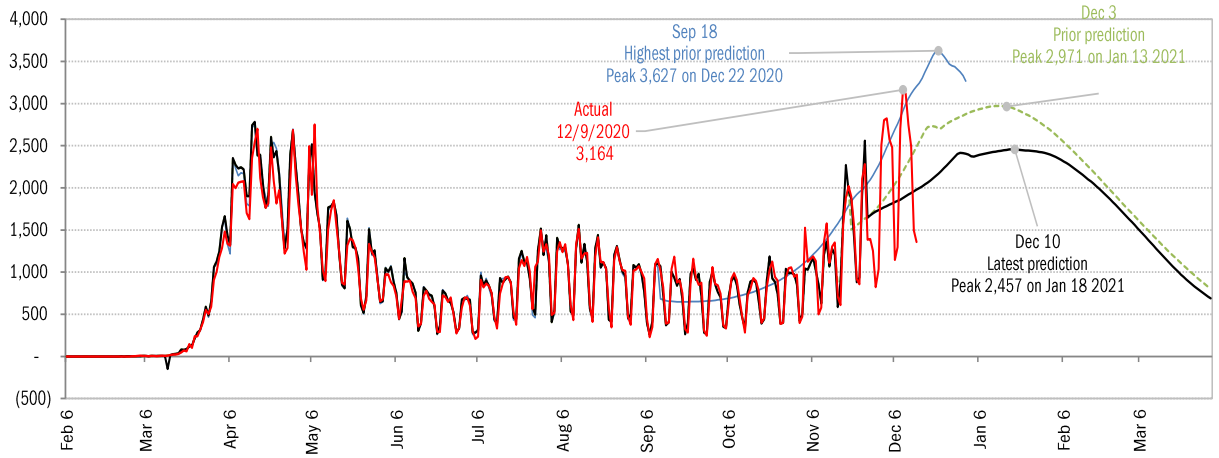


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

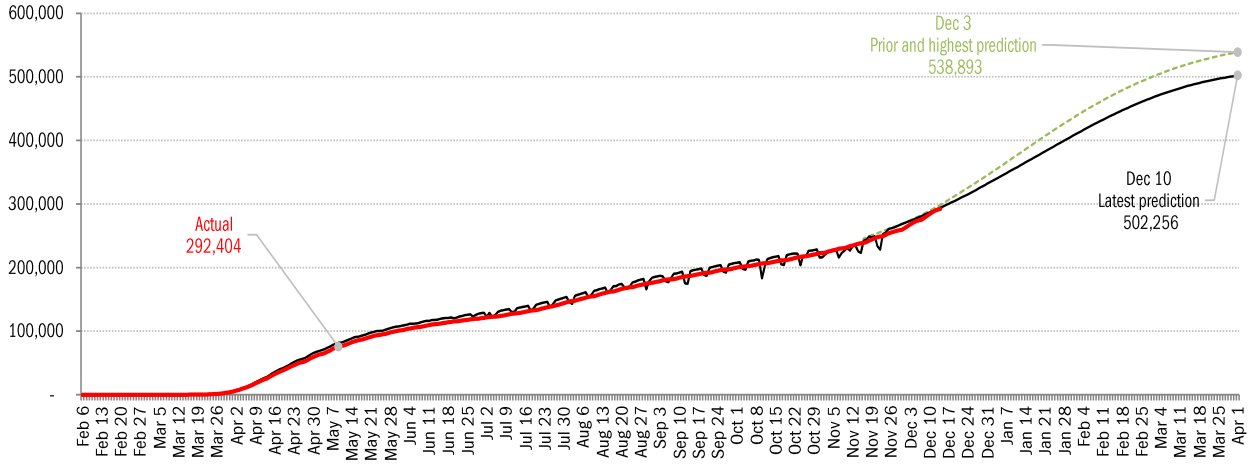
New daily fatalities As of Dec 14

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

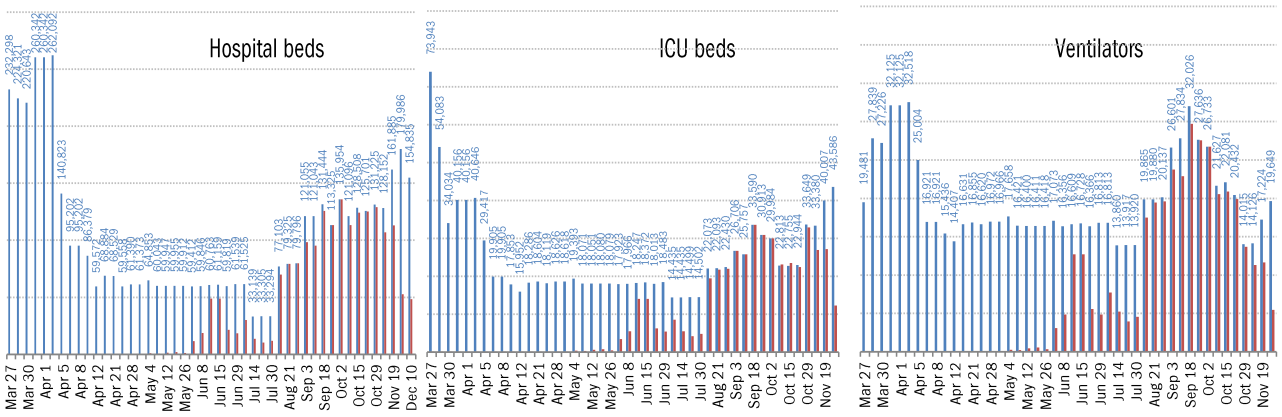


Cumulative fatalities

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

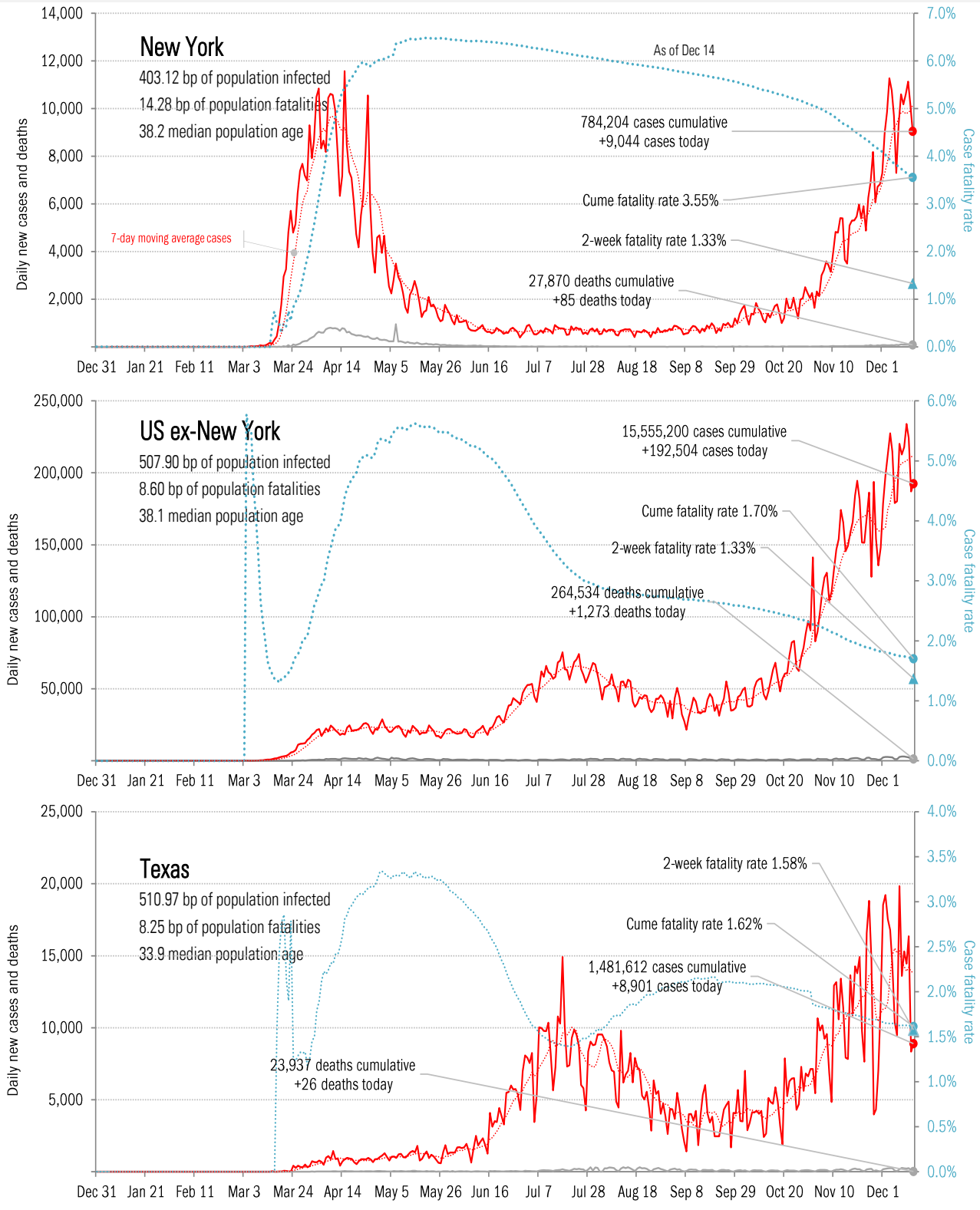


Healthcare system stress, peak and ultimate estimated at each model revision



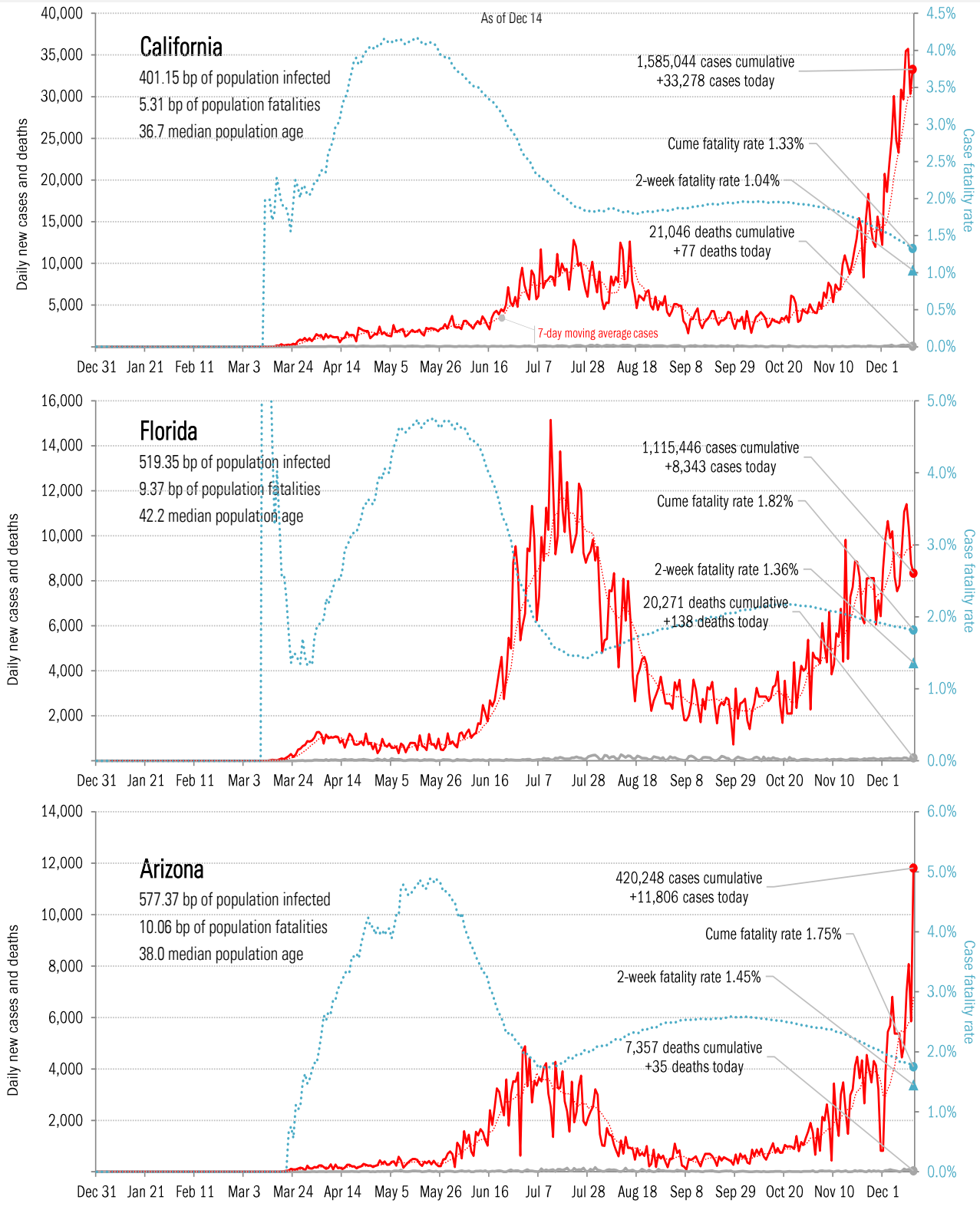
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



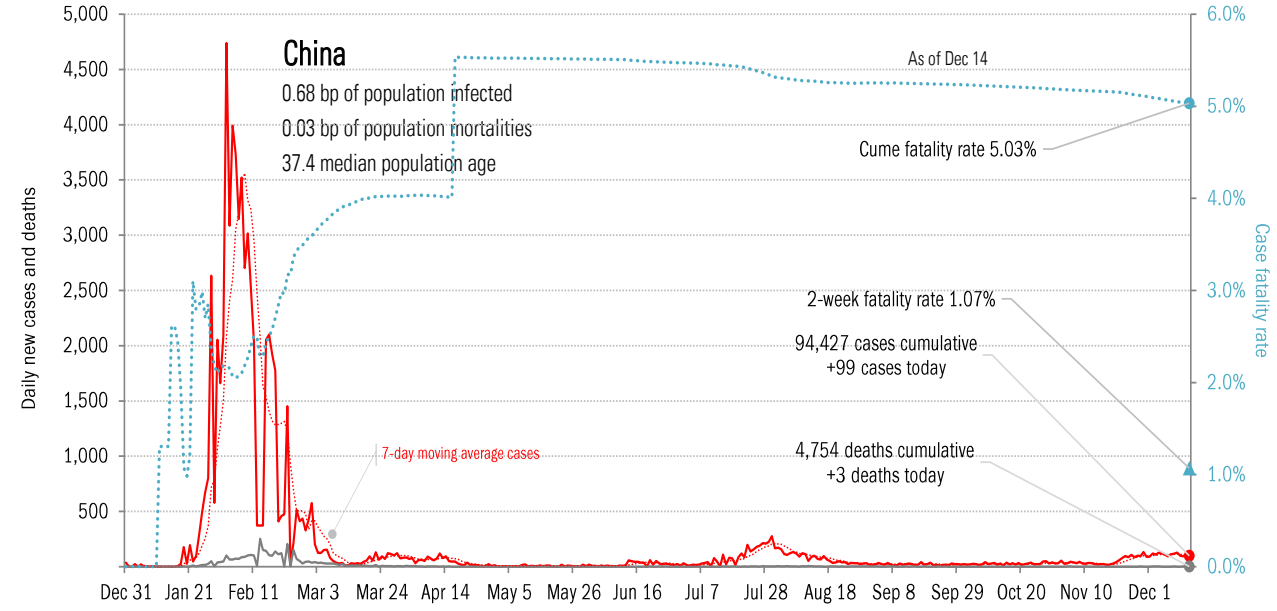
Source: Covid Tracking Project,, TrendMacro calculations

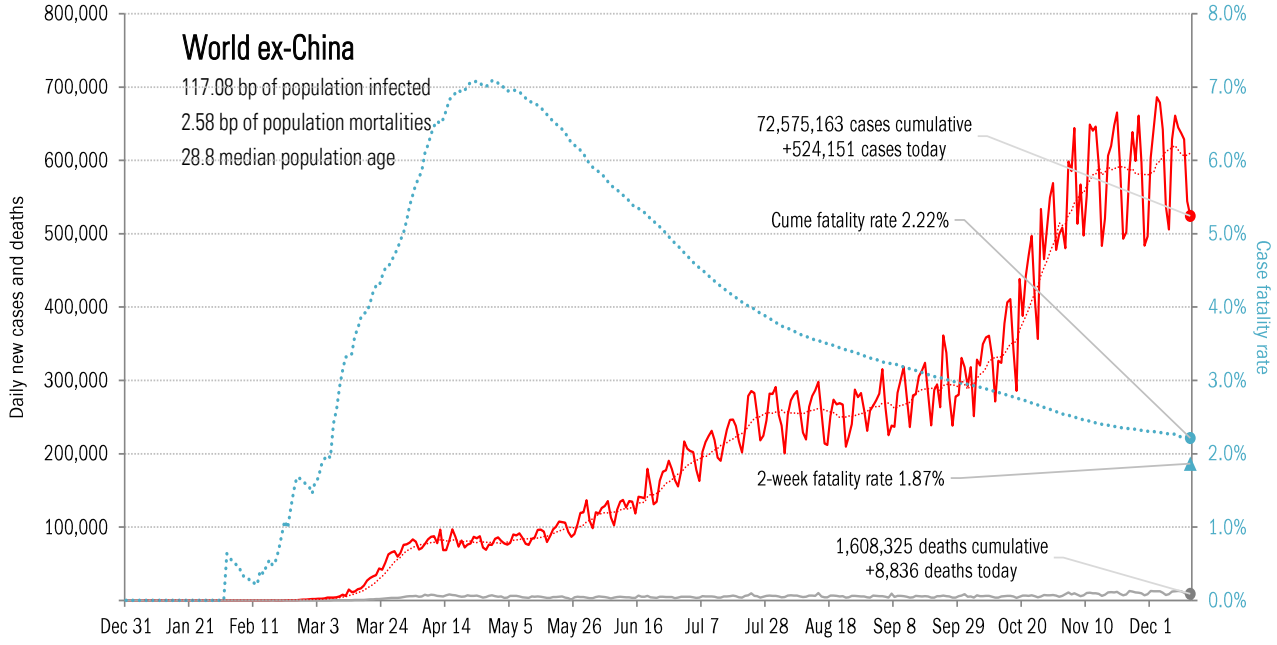
The sun-belt hot-spot states (other than Texas)



Source: Covid Tracking Project,, TrendMacro calculations

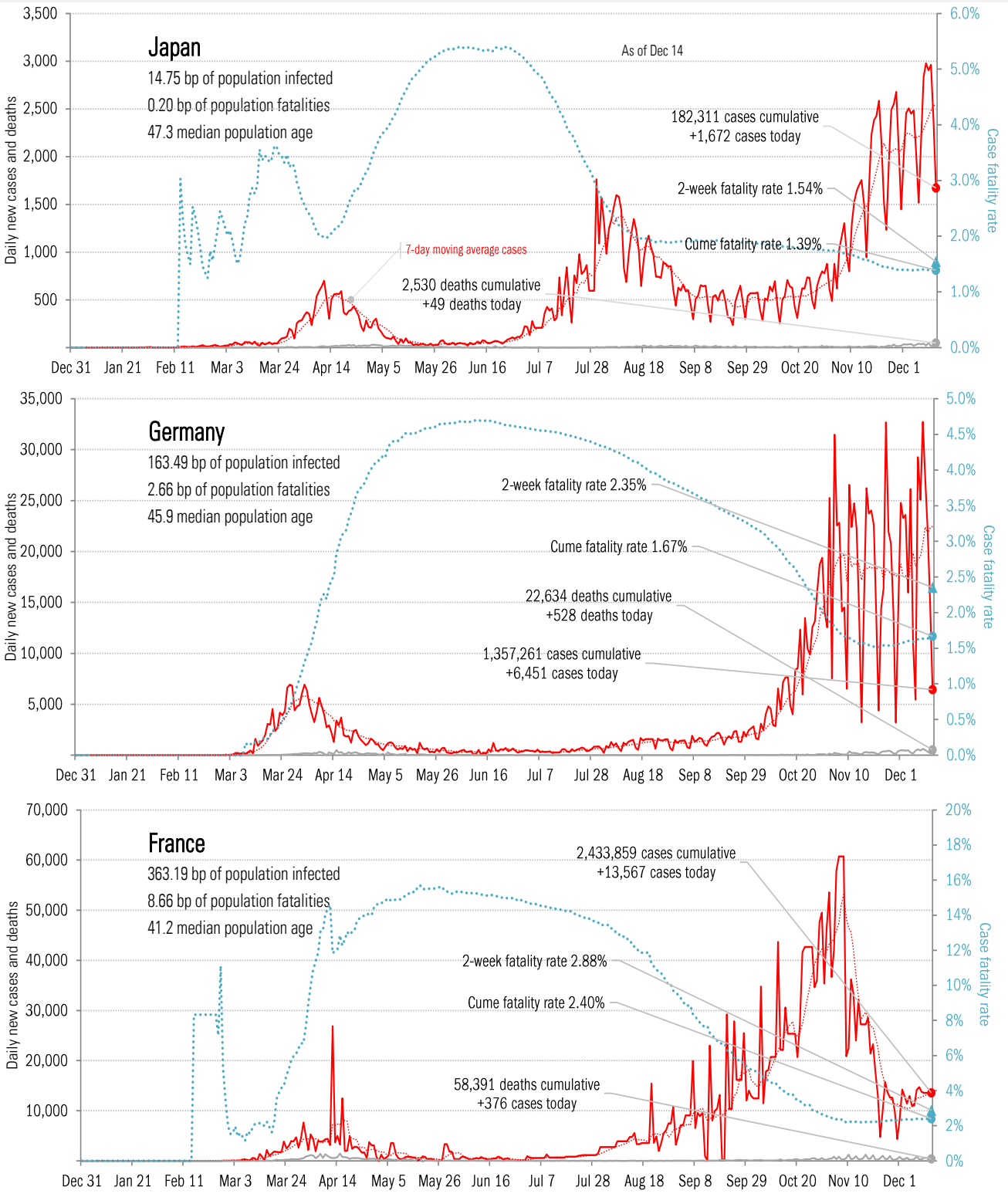
Patient zero… and then everyone else





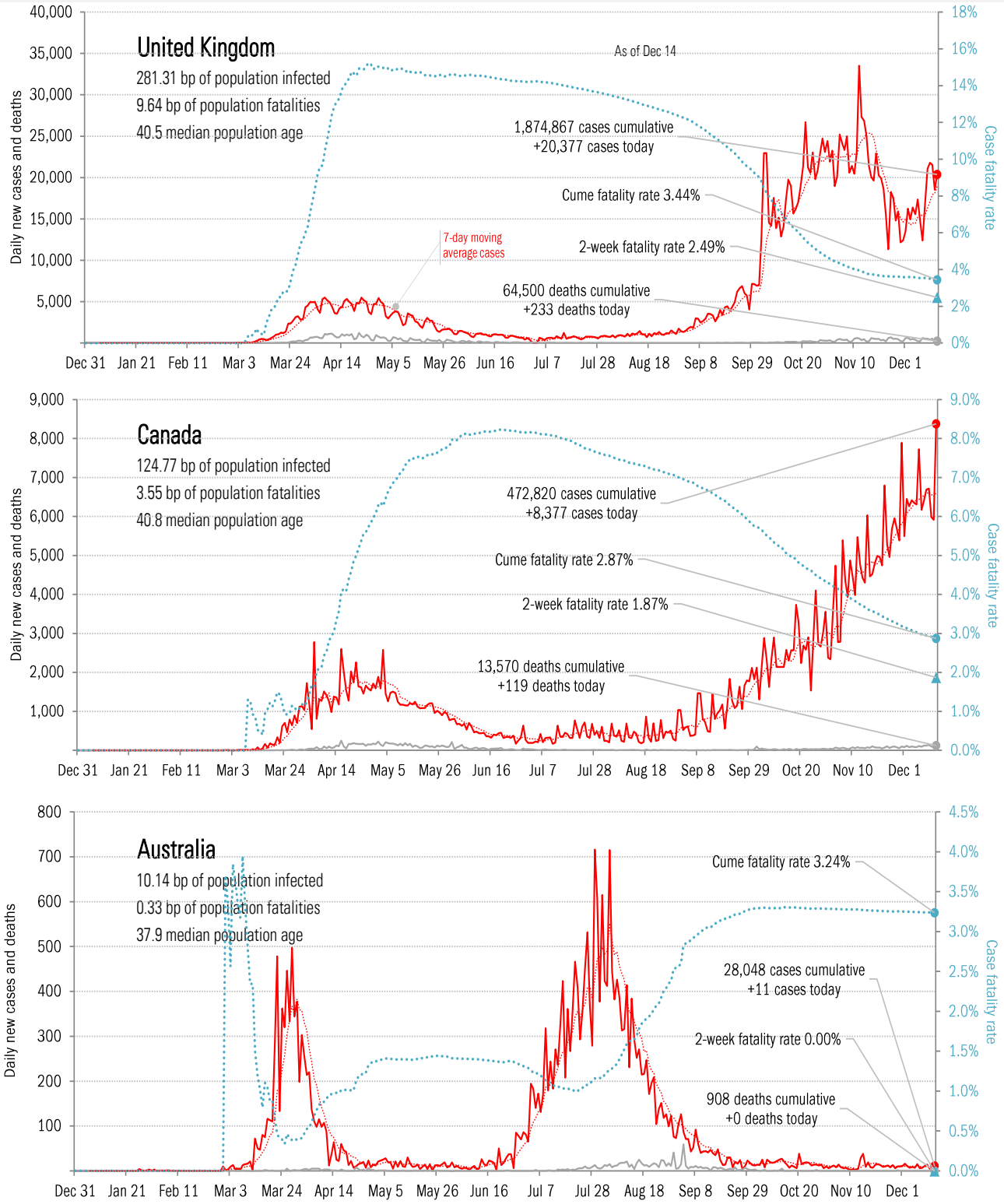
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



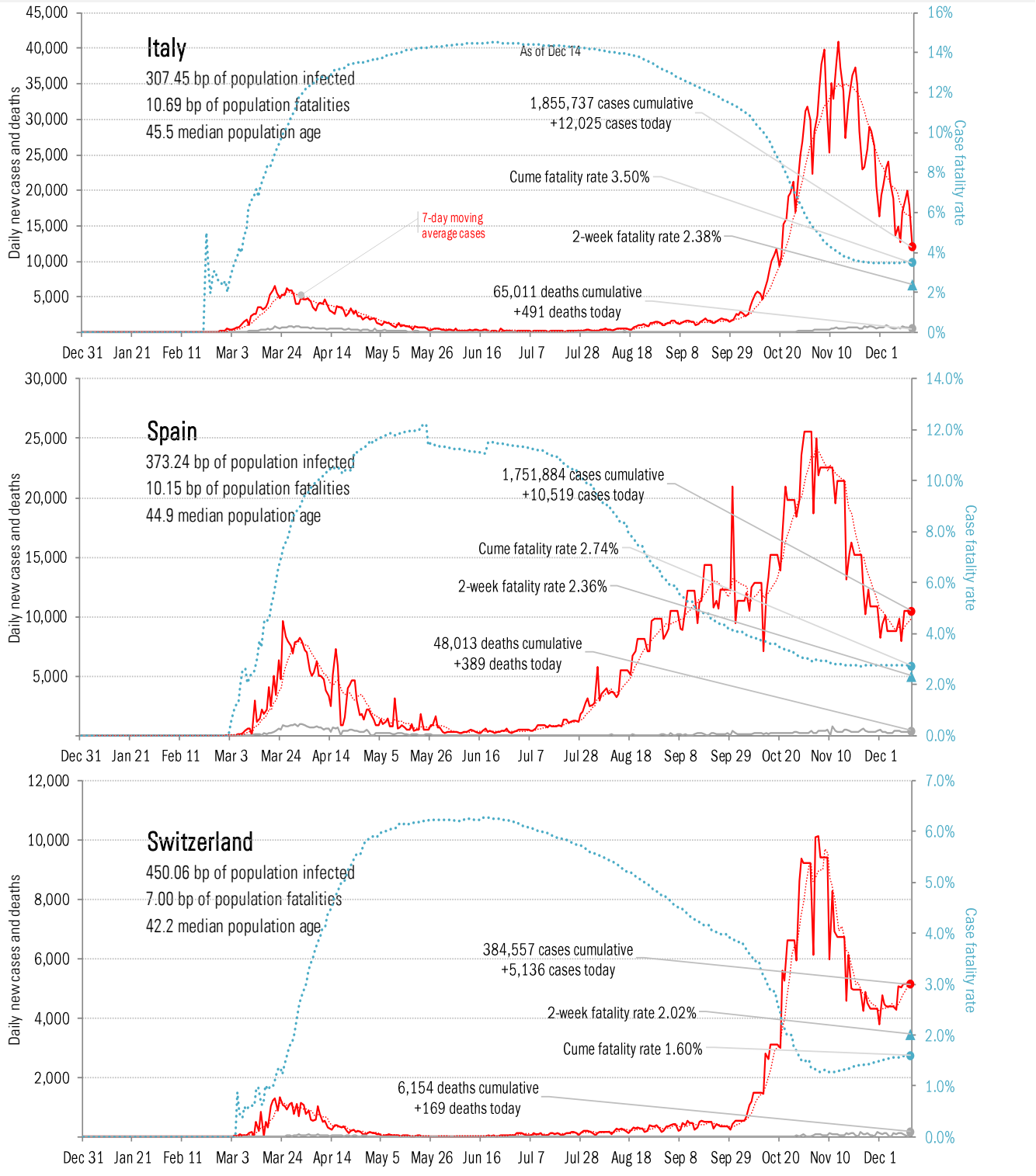
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



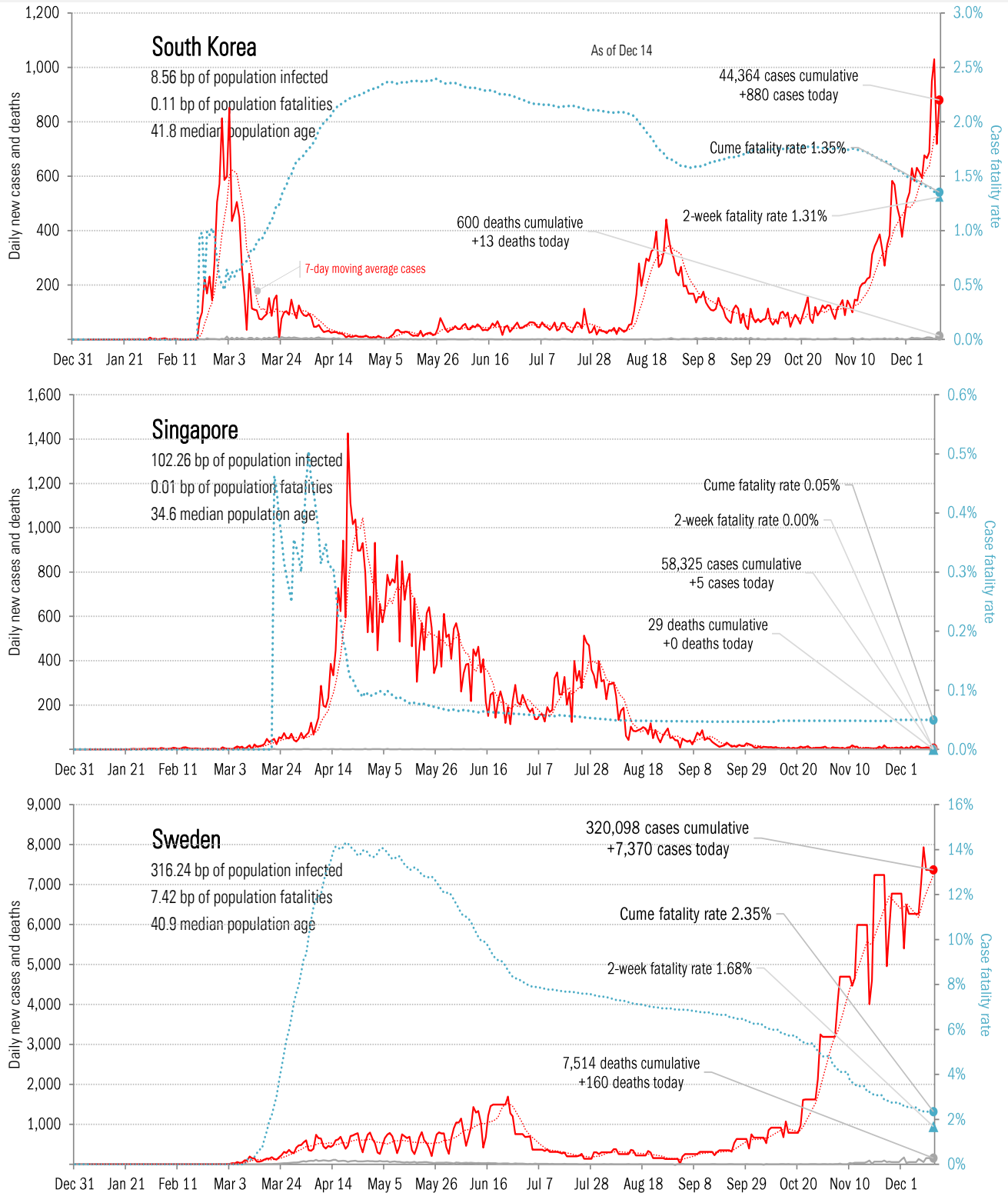
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



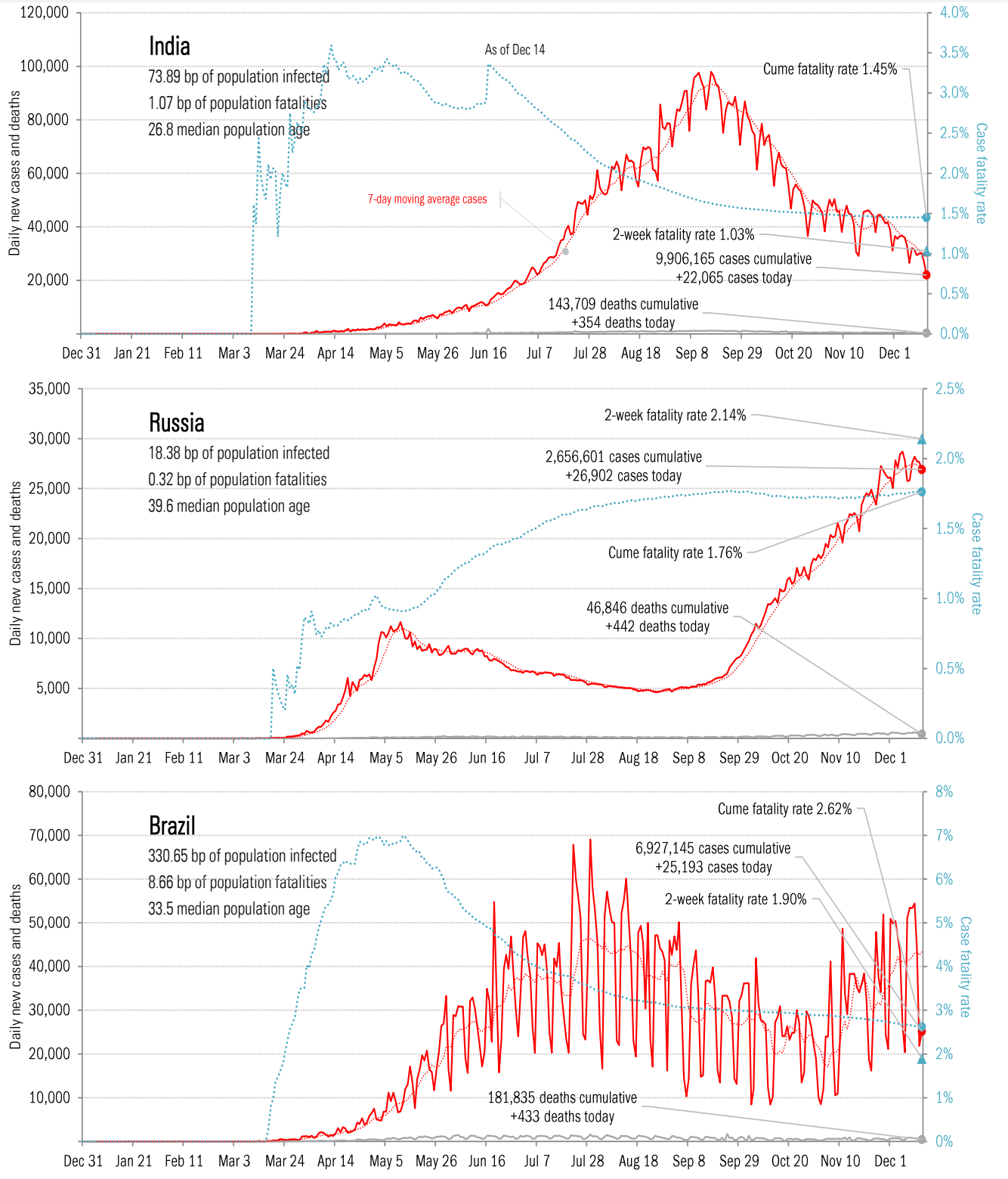
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



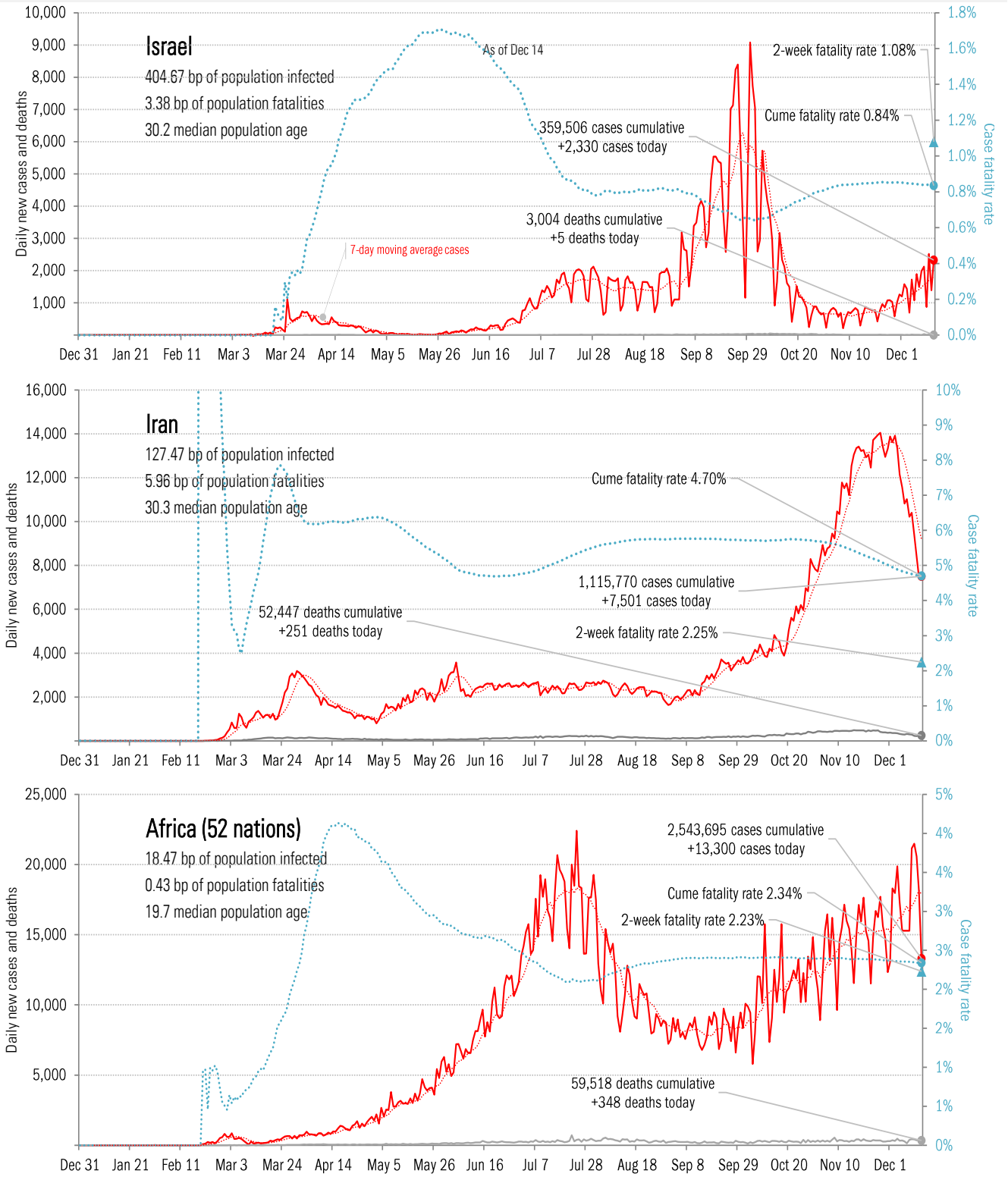
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations