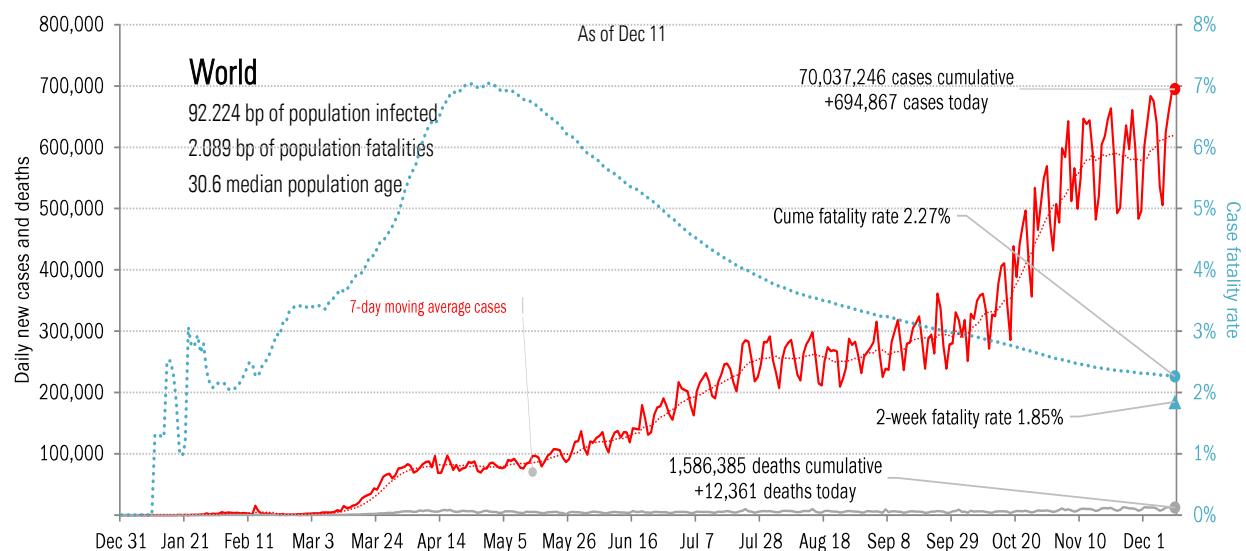
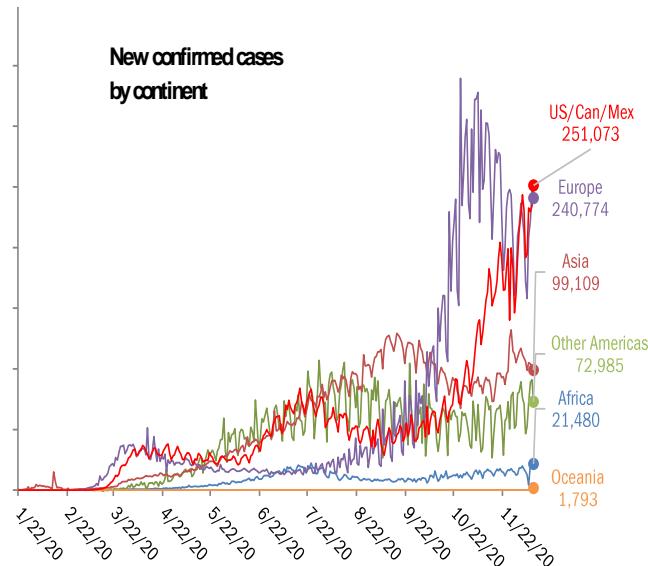


Data Insights: Covid-2019 Monitor

Saturday, December 12, 2020

The global scorecard

The worst ten countries	
New cases	New Deaths
United States +232,105	United States +2,749
Brazil +54,428	Italy +761
Turkey +30,424	Mexico +693
India +30,031	Brazil +672
Russia +28,206	France +627
Germany +27,217	Russia +601
United Kingdom +21,784	Poland +544
Italy +18,726	Germany +503
Ukraine +13,893	India +443
France +13,567	United Kingdom +424
+470,381	+8,017
World +694,867	World +12,361
Top ten 68%	Top ten 65%



Source: [Johns Hopkins Covid Tracking Project](https://covidtracking.com/), TrendMacro calculations

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

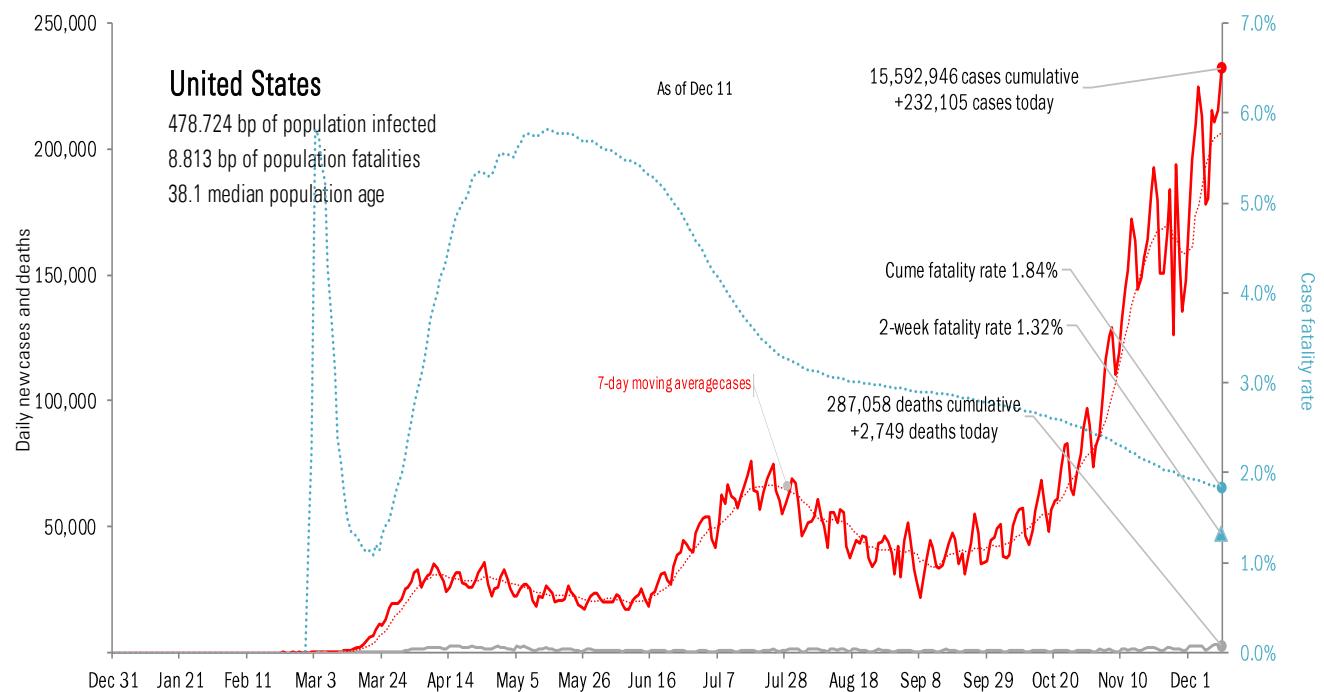
The US scorecard

The ten worst US states

New cases	New Deaths	New in hospital	Cumulative cases	Cumulative deaths	Cumulative in hospital
CA +35,468	TX +226	CA +463	CA 1,485,703	NY 27,587	NY 89,995
PA +12,745	PA +225	NY +157	TX 1,307,878	TX 23,551	FL 58,491
TX +11,746	IL +222	MO +154	FL 1,087,956	CA 20,622	NJ 43,462
FL +11,409	CA +159	GA +111	IL 832,951	FL 19,977	GA 37,321
NY +10,595	KS +131	AZ +74	NY 753,837	NJ 17,662	CH 31,536
CH +10,359	CH +128	FL +71	CH 542,209	IL 15,067	AZ 30,302
IL +9,420	FL +126	NC +70	PA 470,034	PA 12,235	IN 30,126
NC +7,540	MN +94	TX +64	GA 466,904	MA 11,257	AL 28,146
TN +7,289	AZ +91	VA +64	WI 461,367	MI 10,965	MD 23,009
IN +7,200	NY +89	LA +60	MI 460,346	GA 10,031	MN 19,251
+ 123,771	+ 1,491	+ 1,288	7,869,185	168,954	391,639
All states +232,105	All states +2,749	All states +832	All states 15,592,946	All states 287,058	All states 608,998
Top ten 53%	Top ten 54%	Top ten 155%	Top ten 50%	Top ten 59%	Top ten 64%
<i>Some states not reporting</i>					

Five most improved US states

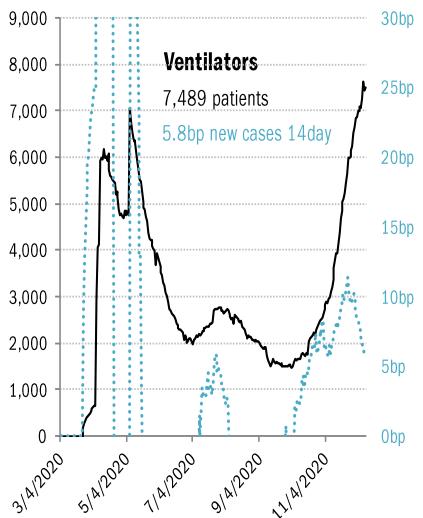
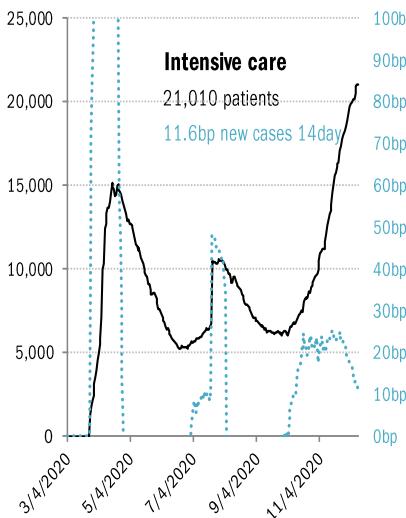
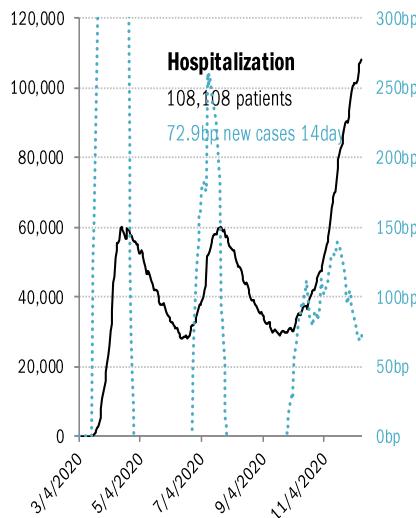
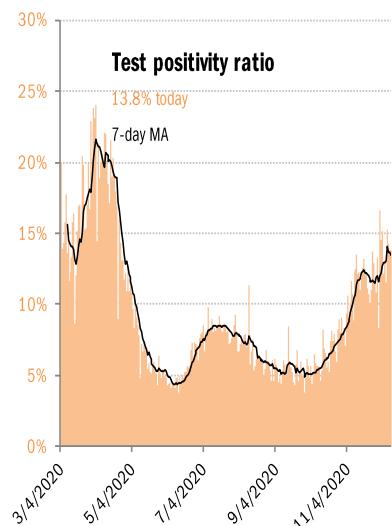
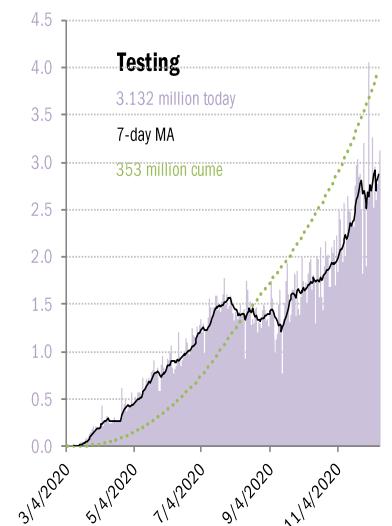
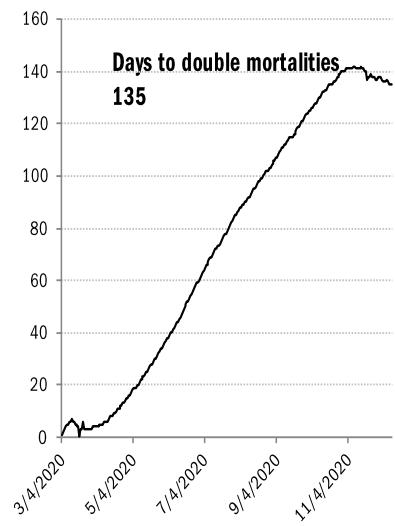
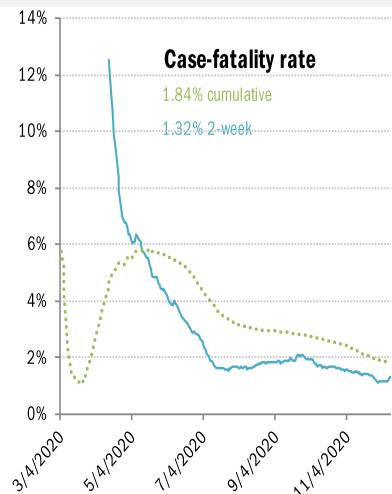
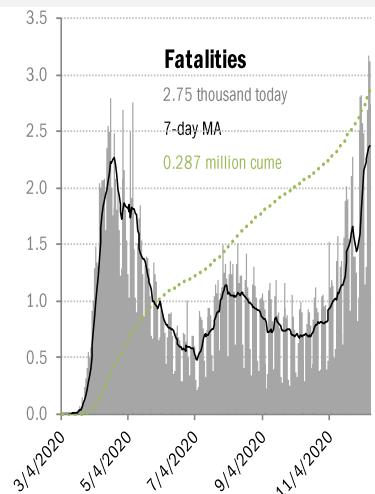
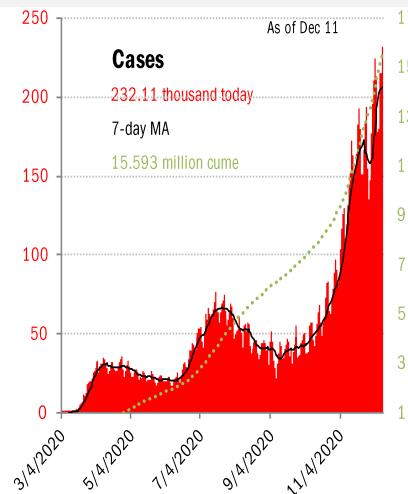
Fewer daily cases	Fewer new deaths	Fewer new hospitalizations	Most recoveries
IL -1,681	WA -215	PA -234	TX +82,755
NJ -1,470	MI -129	AL -118	CH +9,624
CH -1,379	CA -61	MT -114	MT +8,099
GA -1,333	MO -36	MN -78	PA +7,392
UT -1,218	CO -33	WA -74	WI +5,806



Source: [Covid Tracking Project](#), TrendMacro calculations

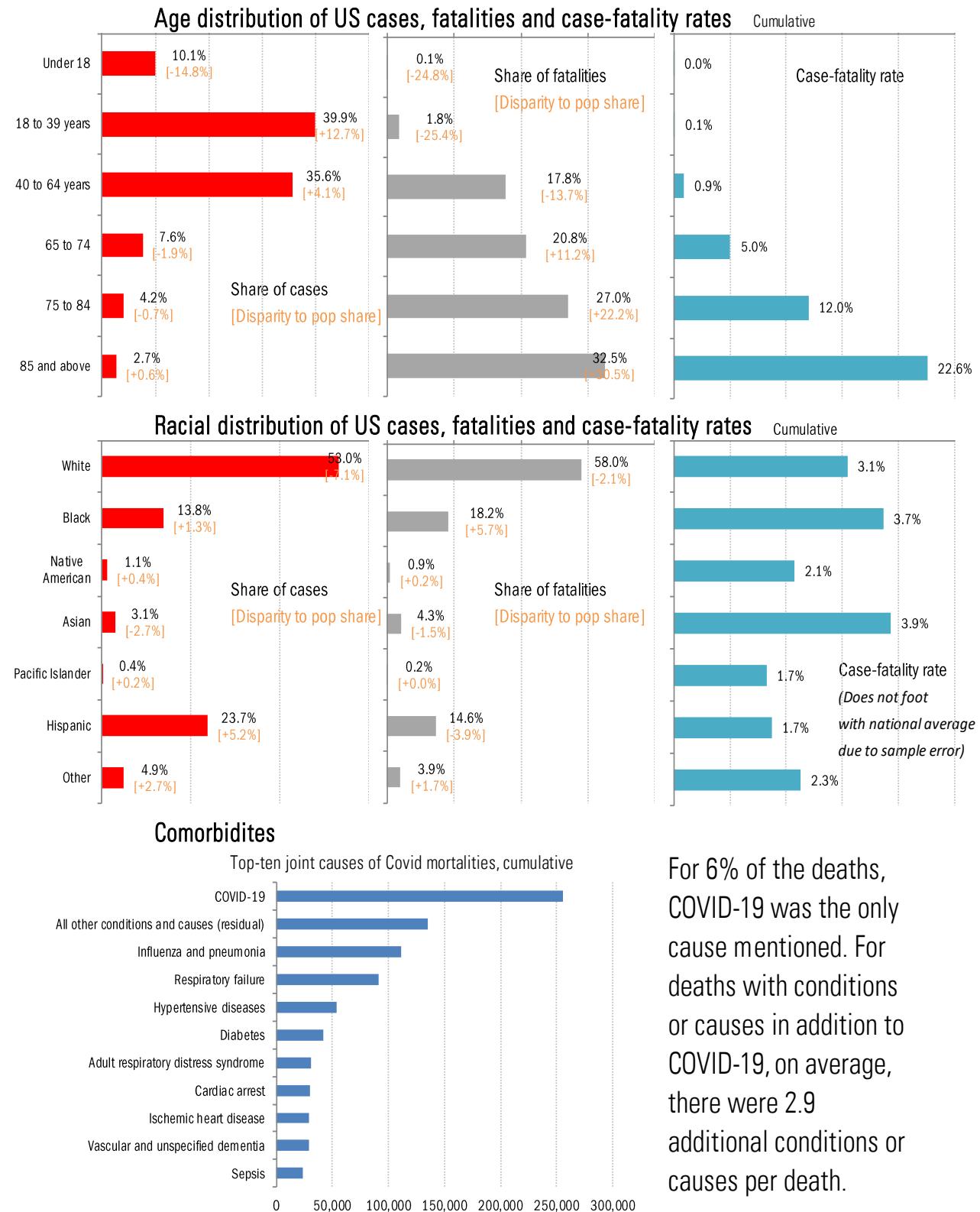
US deep-dive

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



Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

Recommended reading

[Virtual Press Conference: First COVID-19 Vaccine](#)

Food and Drug Administration

December 12, 2020

[FDA Takes Key Action in Fight Against COVID-19 By Issuing Emergency Use Authorization for First COVID-19 Vaccine](#)

Food and Drug Administration

December 11, 2020

[Kids catch and spread coronavirus half as much as adults, Iceland study confirms](#)

Lois Parshley

National Geographic

December 10, 2020

[Representative says he is committed to filing legislation allowing Texas to secede](#)

Drew Knight

KHOU 11

December 10, 2020

[FLCCC Alliance Calls on National Health Authorities to Immediately Review Medical Evidence Showing the Efficacy of Ivermectin for the Prevention of COVID-19 and as an Early Outpatient Treatment](#)

Frontline COVID-19 Critical Care Alliance

December 4, 2020

[Covid vaccine setbacks for Sanofi/GSK and Australian jabs](#)

Victor Mallet, Jamie Smyth, Donato Paolo Mancini and Sarah Neville

Financial Times

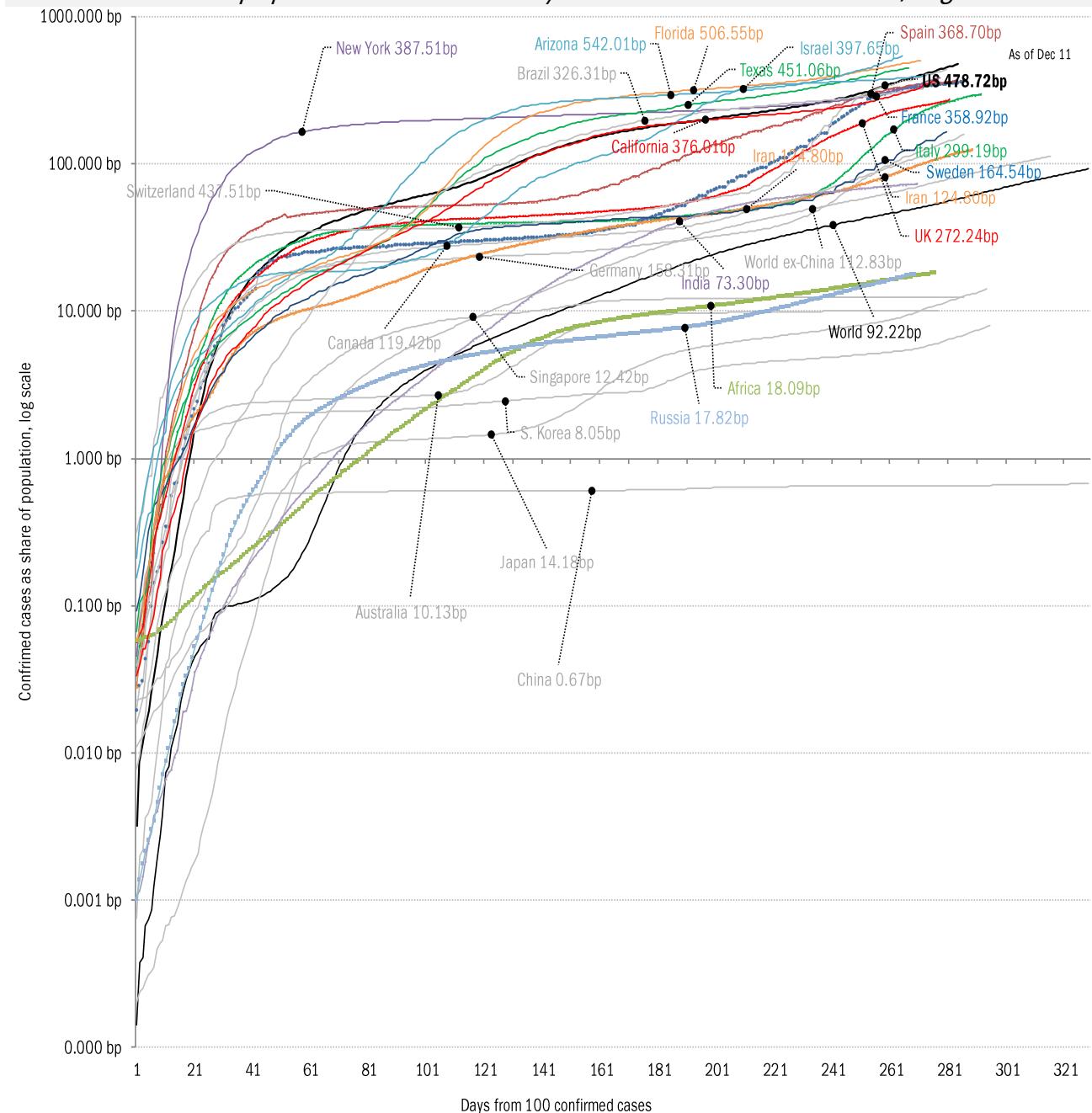
December 11, 2020

Meme of day



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

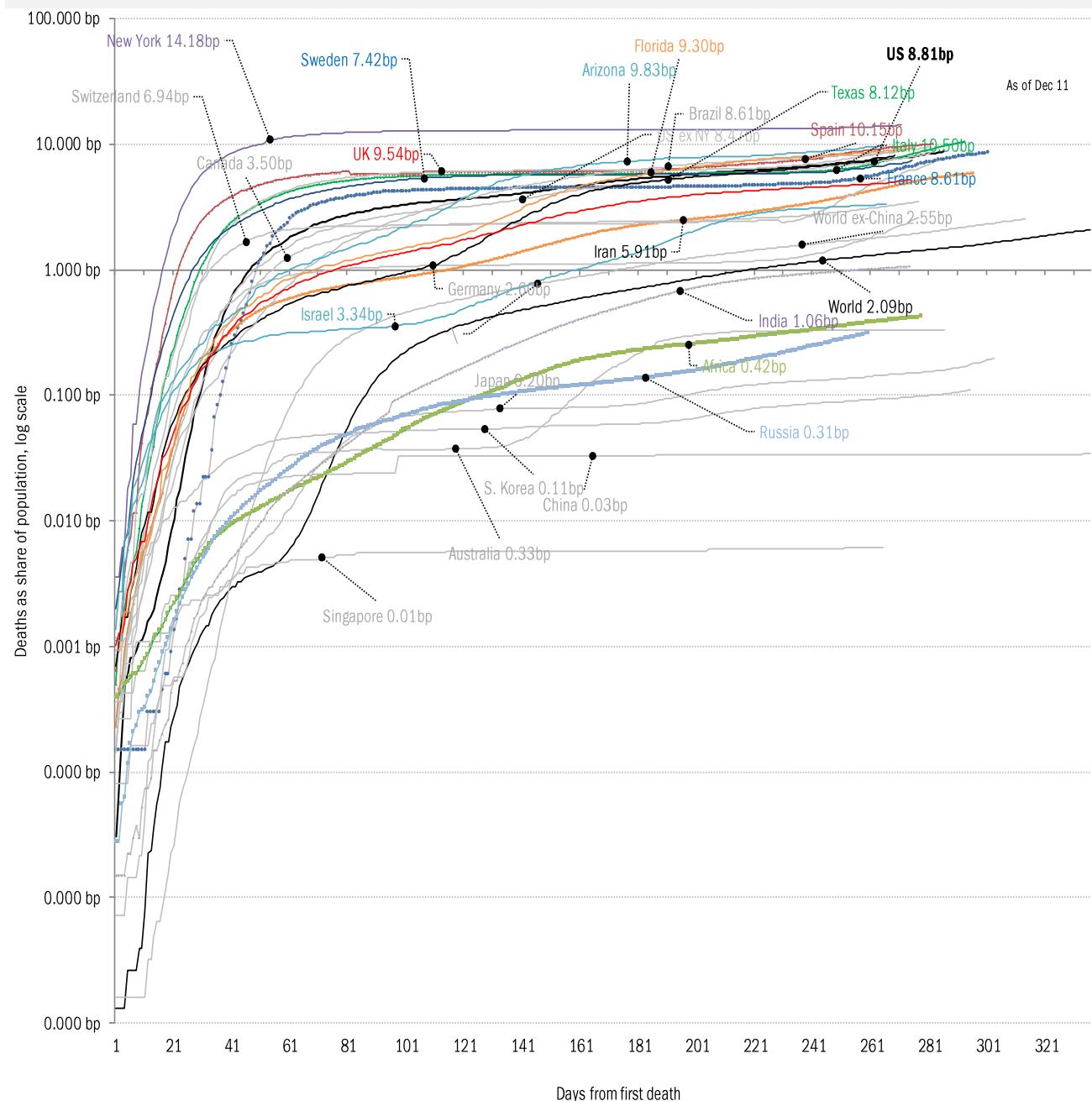
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

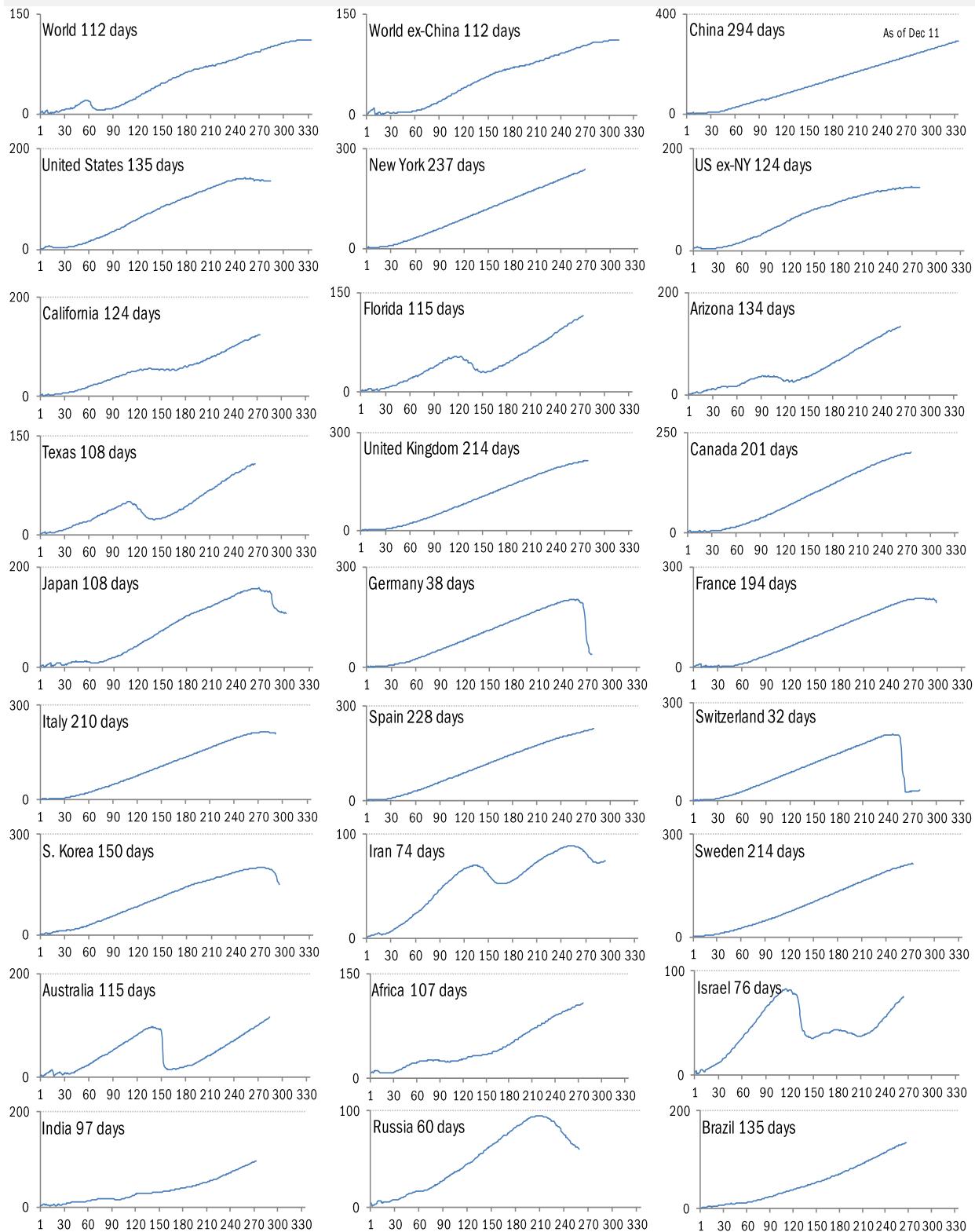


Source: [Johns Hopkins, Covid Tracking Project](#), TrendMacro calculations

"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

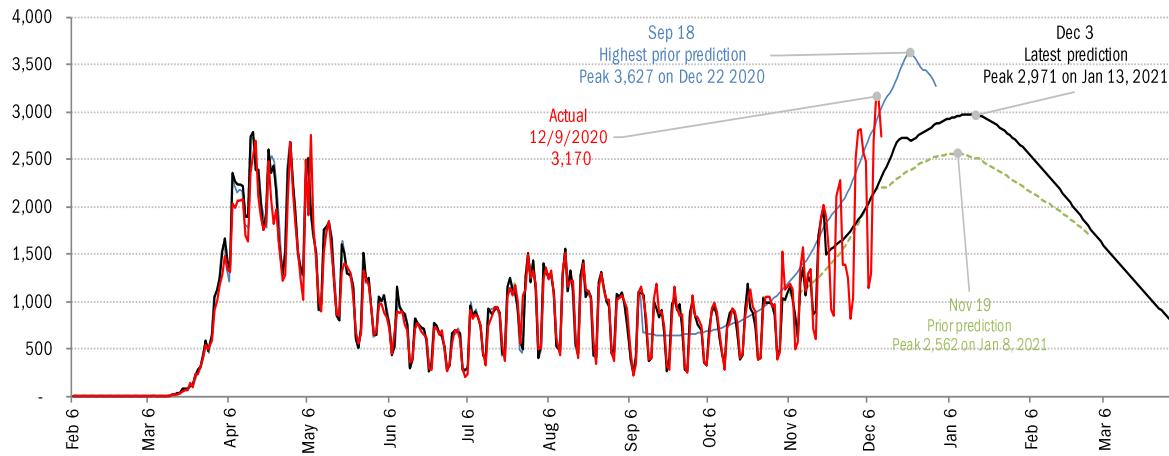


Source: [Covid Tracking Project](#), TrendMacro calculations

Reality-checking the models: actuals versus [IHME predictions](#)

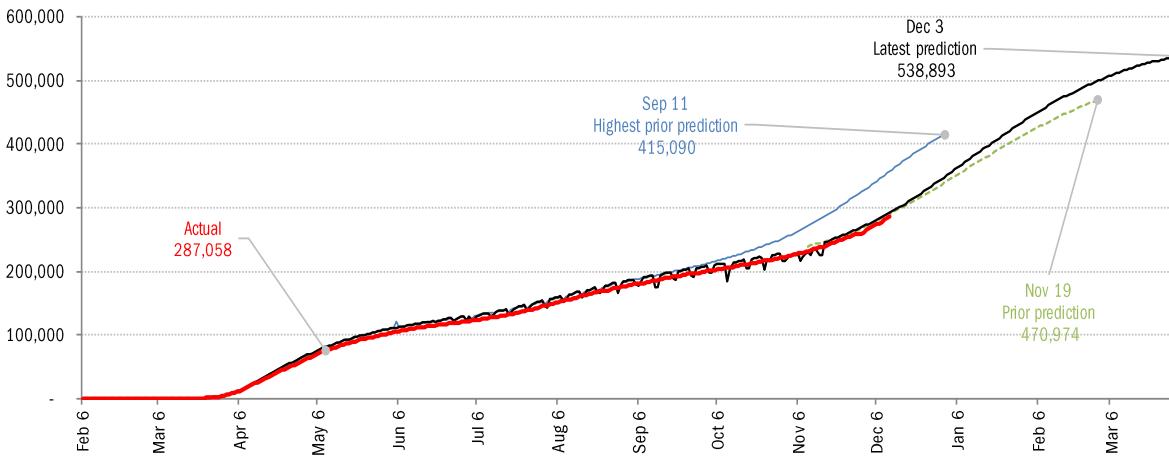
New daily fatalities

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

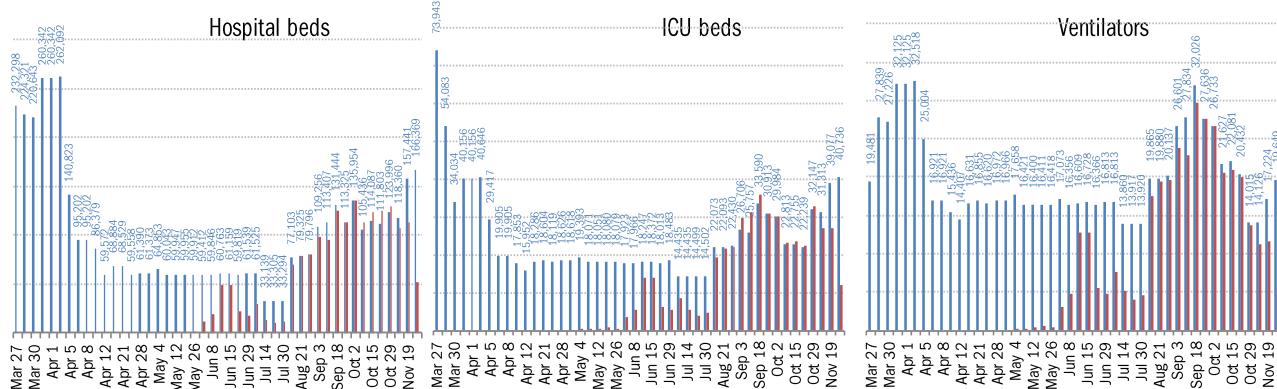


Cumulative fatalities

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

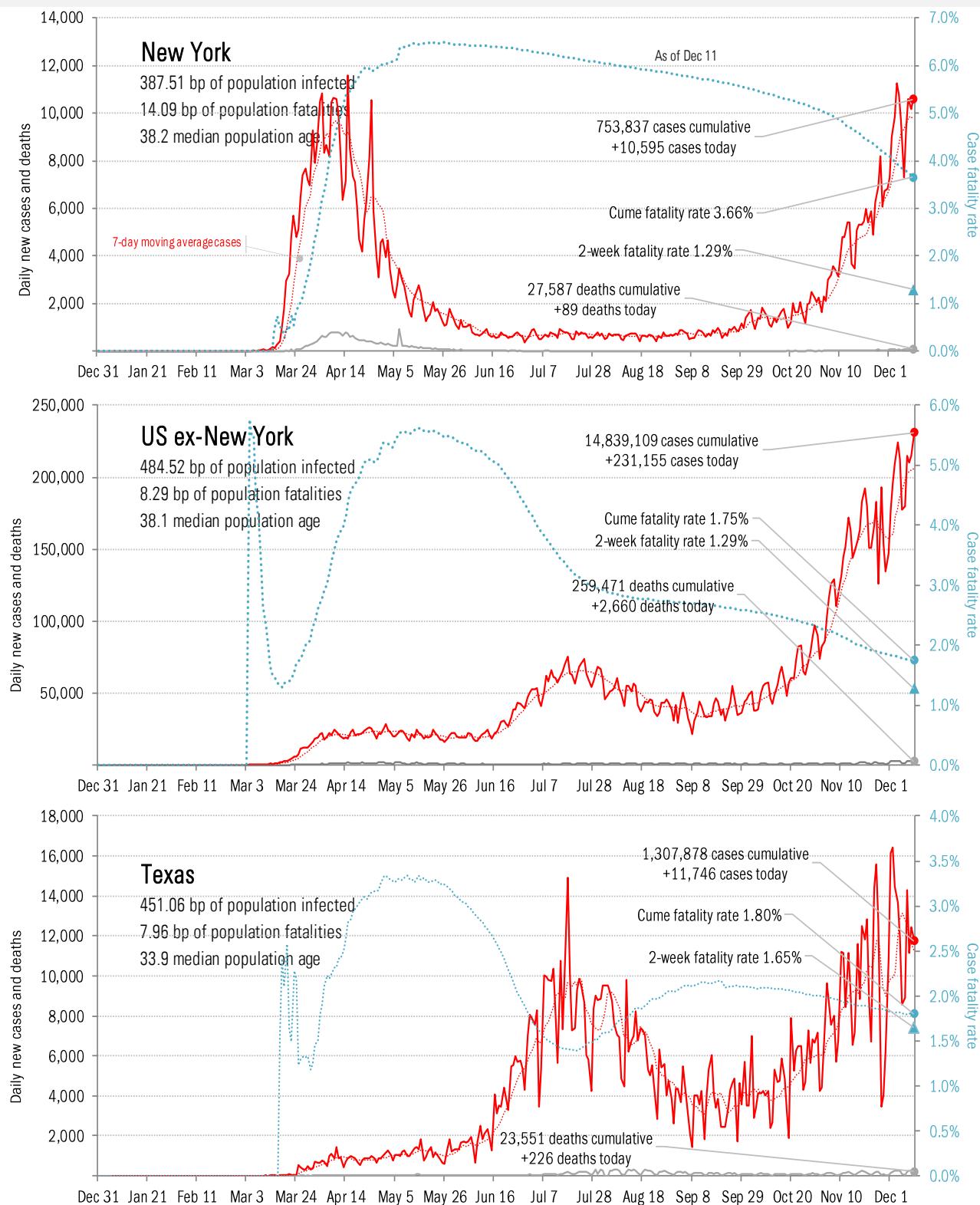


Healthcare system stress, peak and ultimate estimated at each model revision



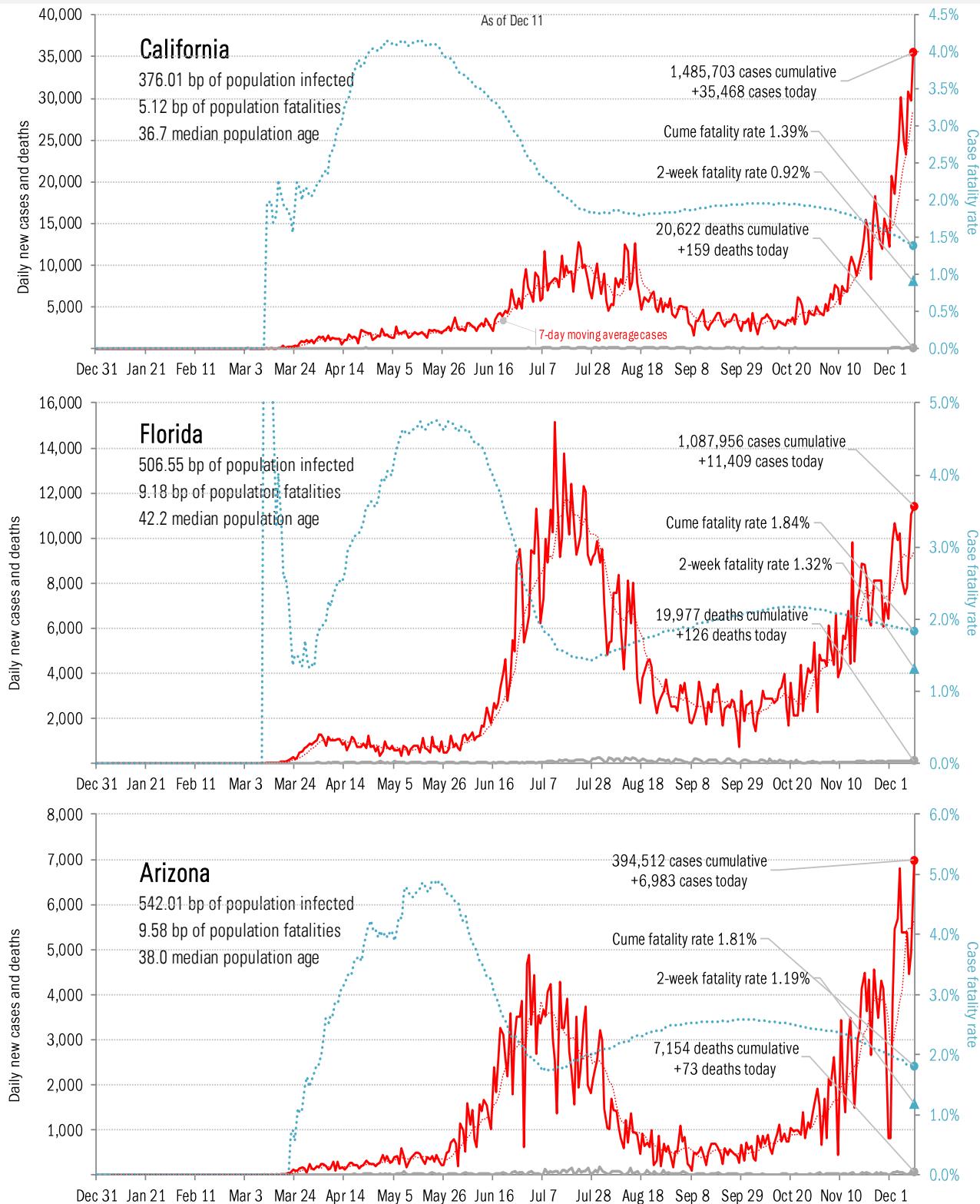
Source: [IHME Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



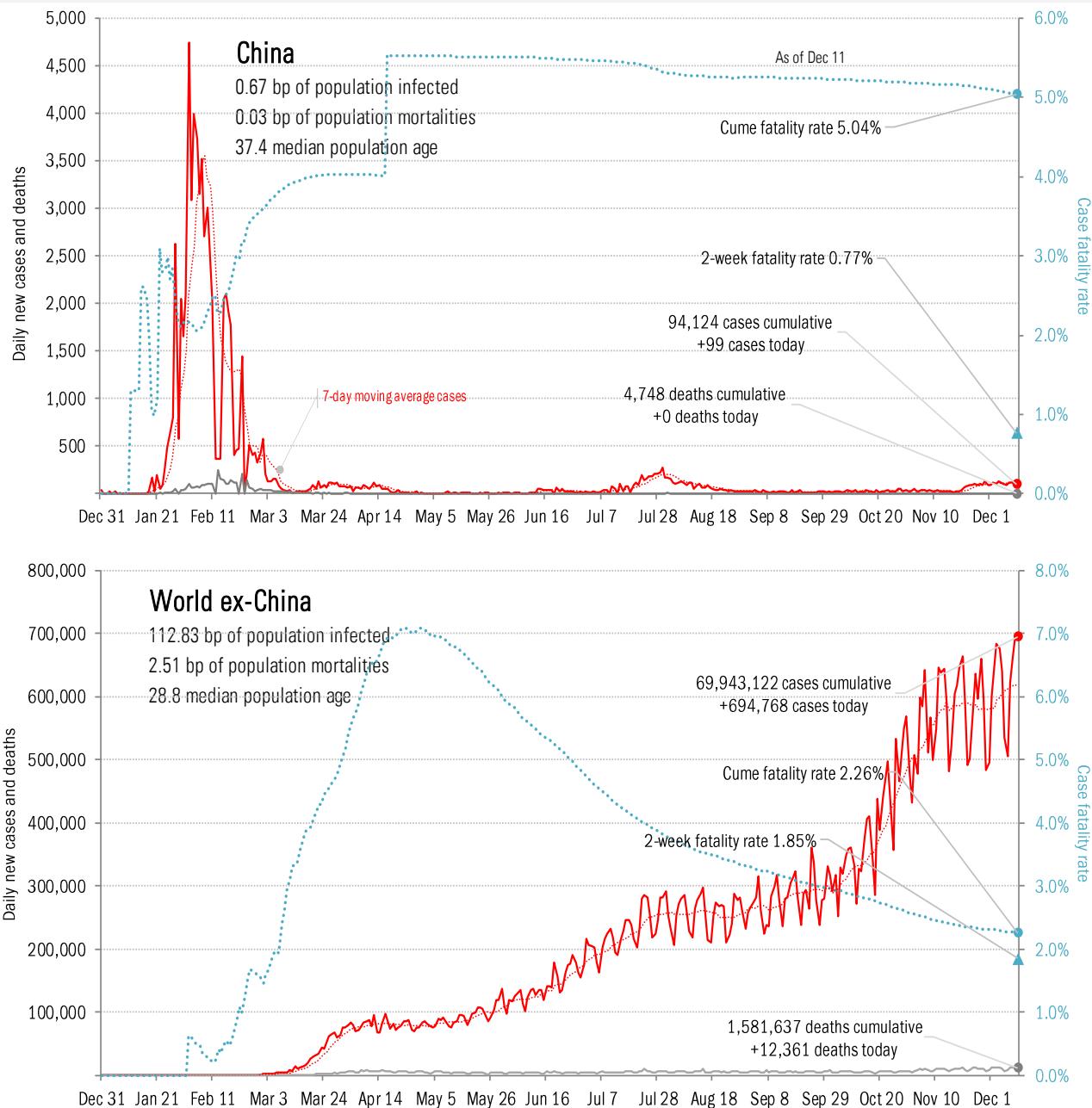
Source: [Covid Tracking Project](#), TrendMacro calculations

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



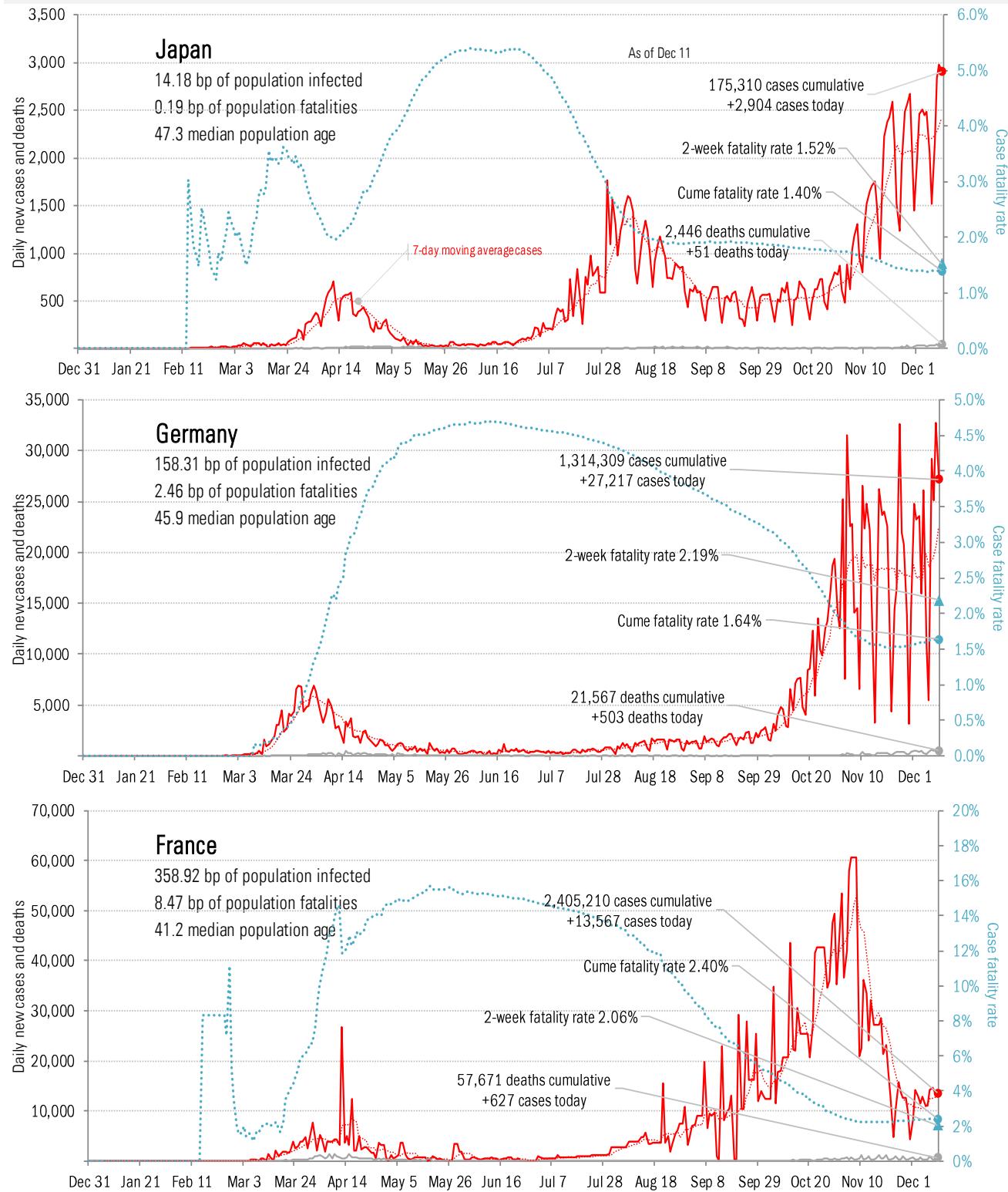
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



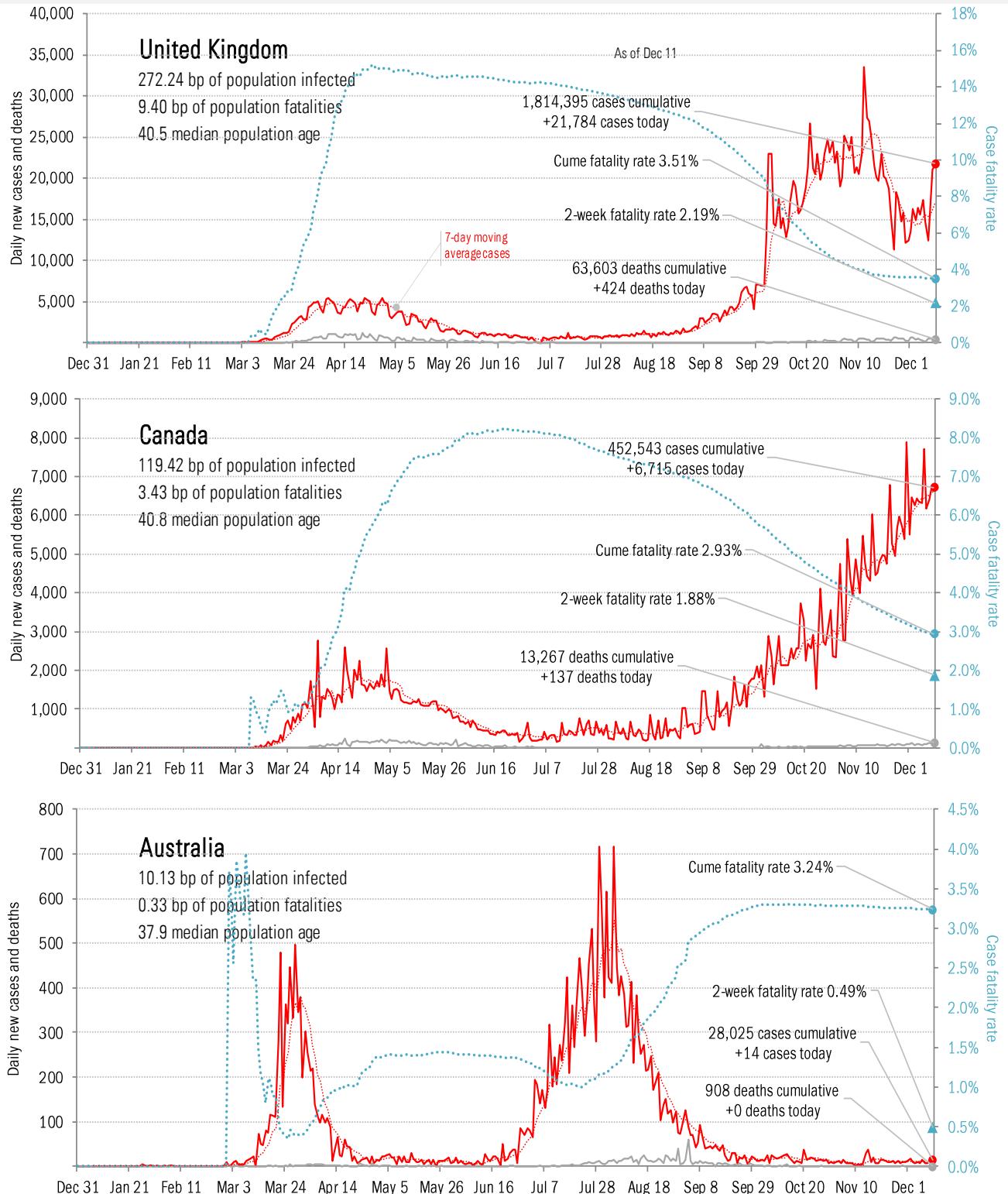
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



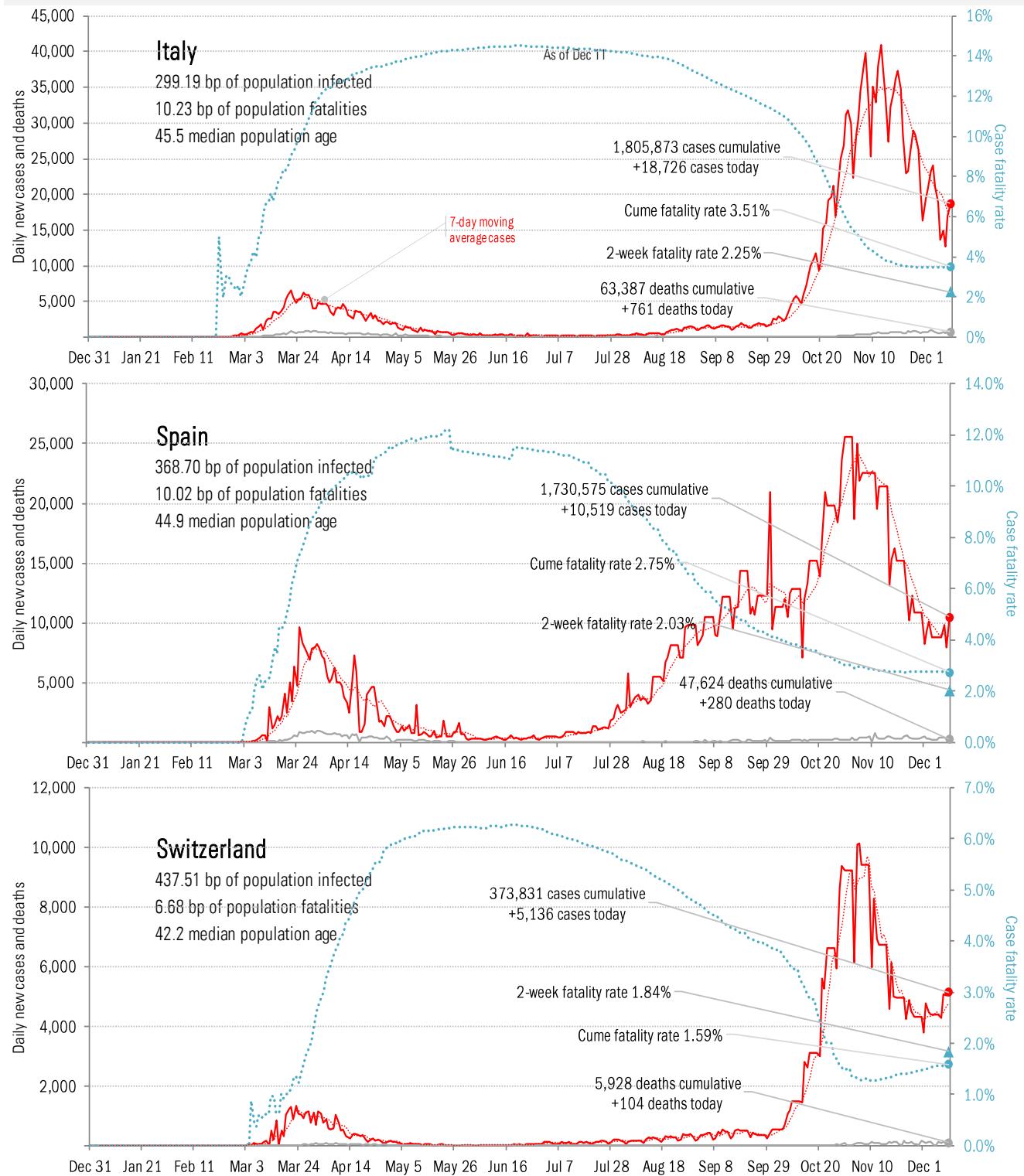
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



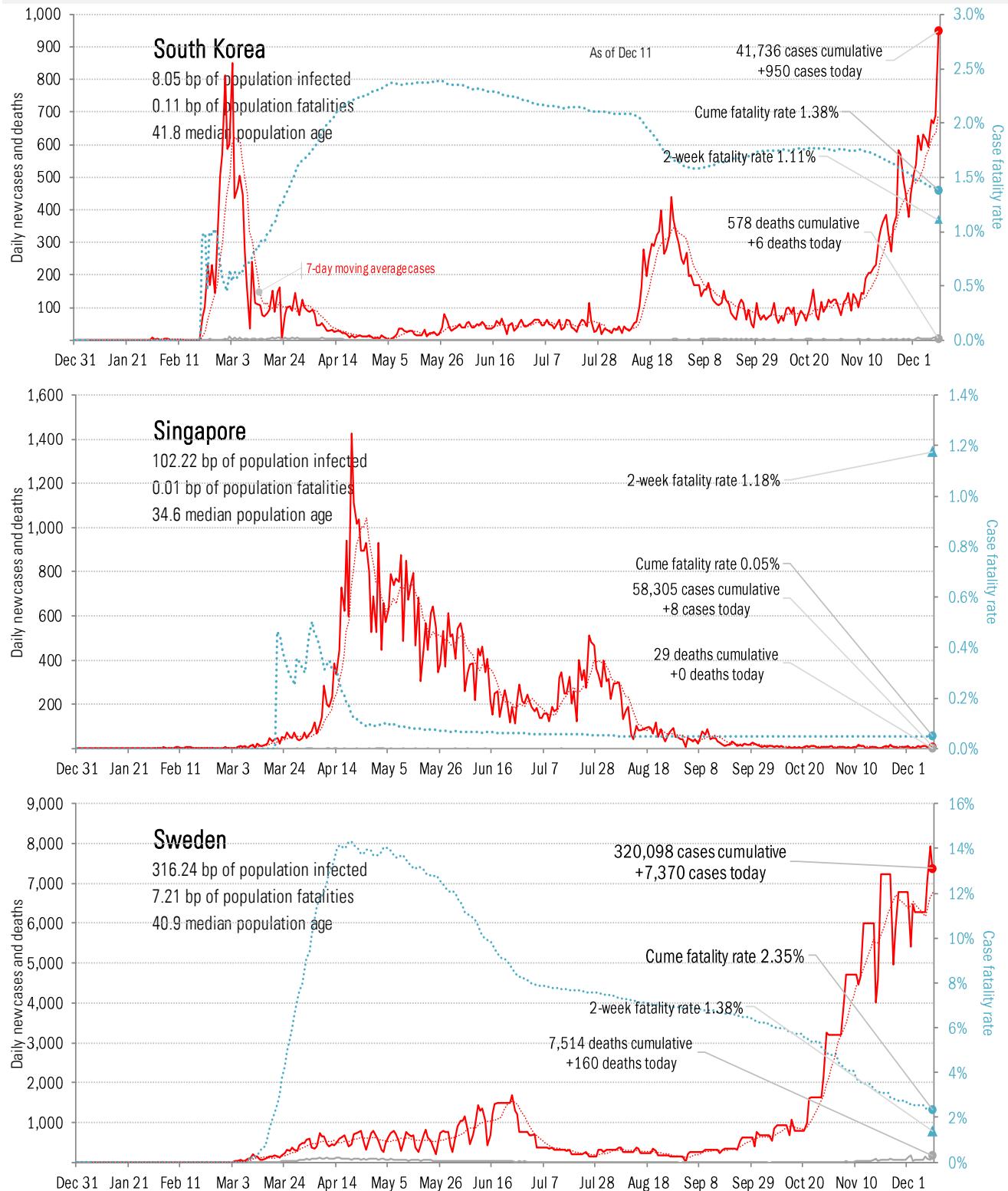
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



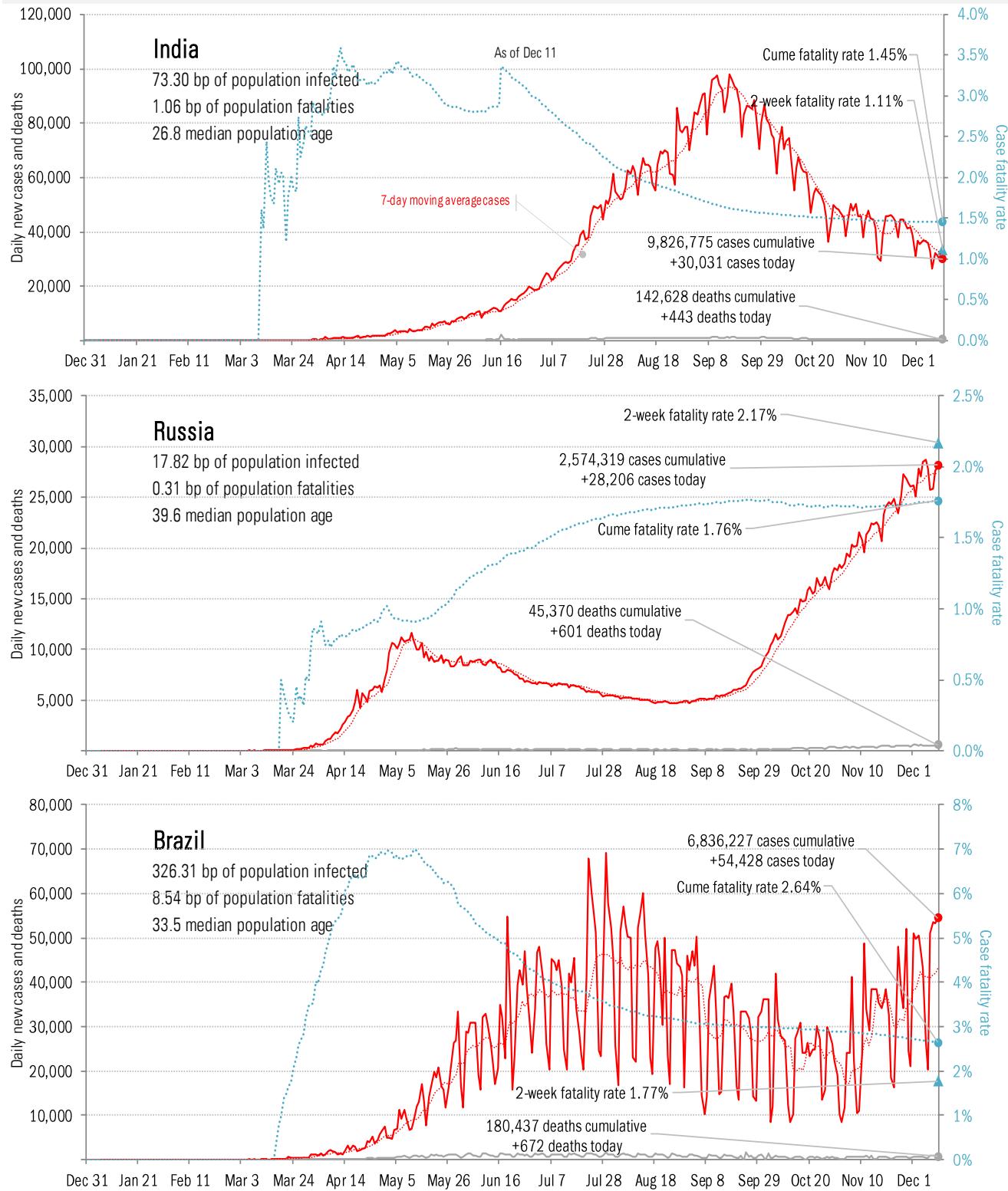
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



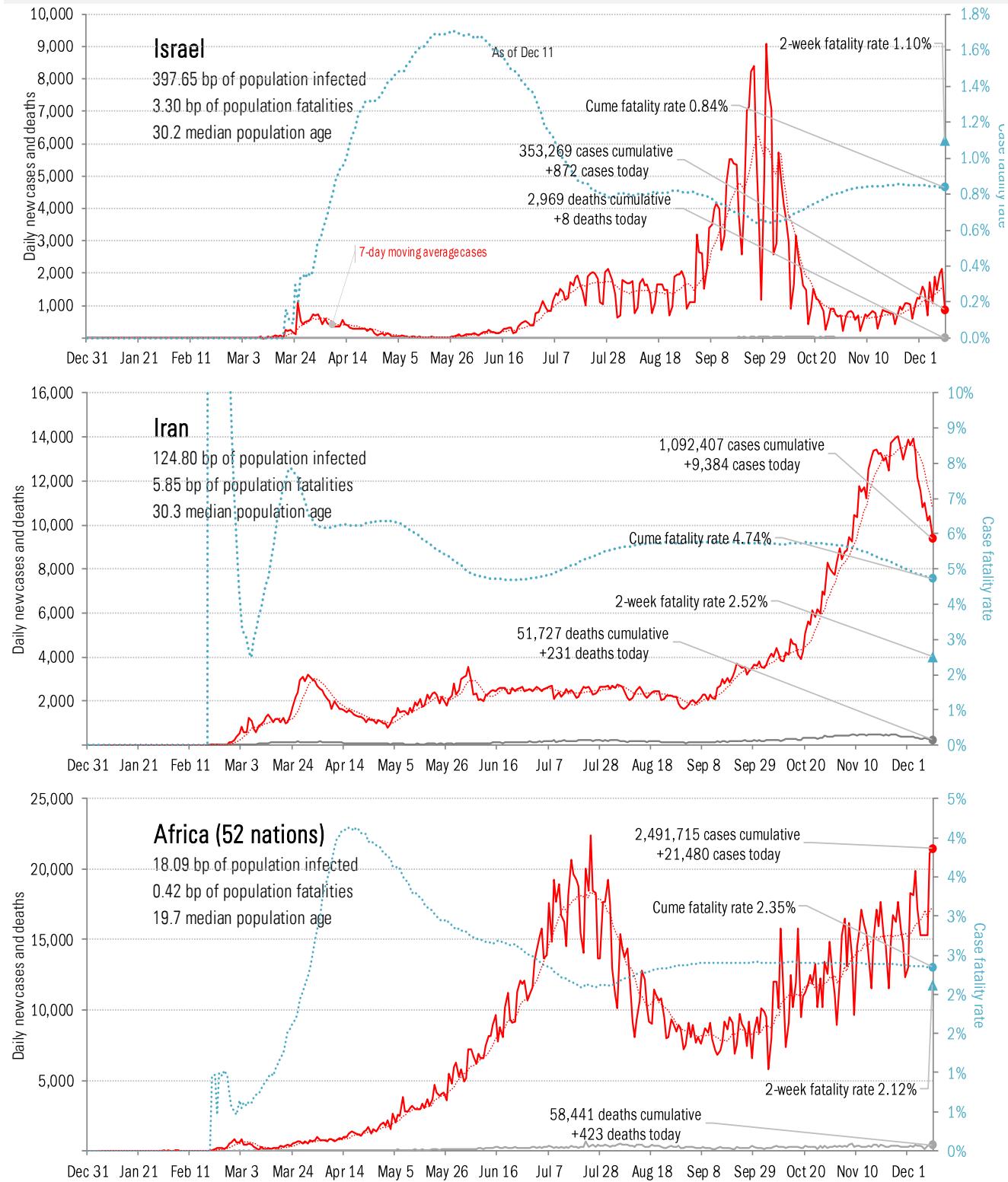
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [Johns Hopkins](#), TrendMacro calculations