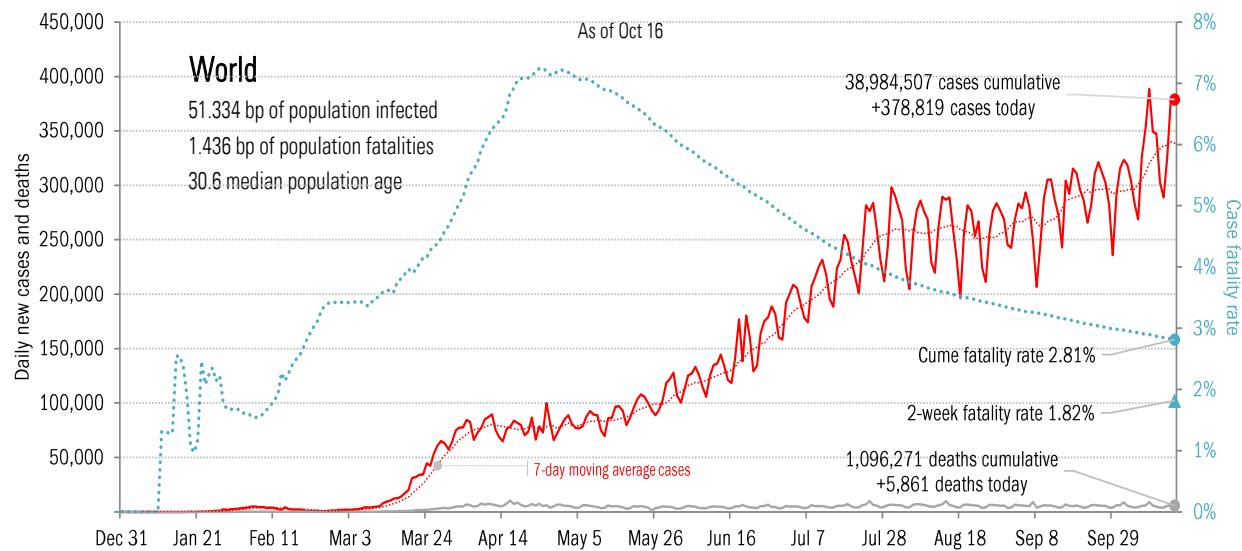
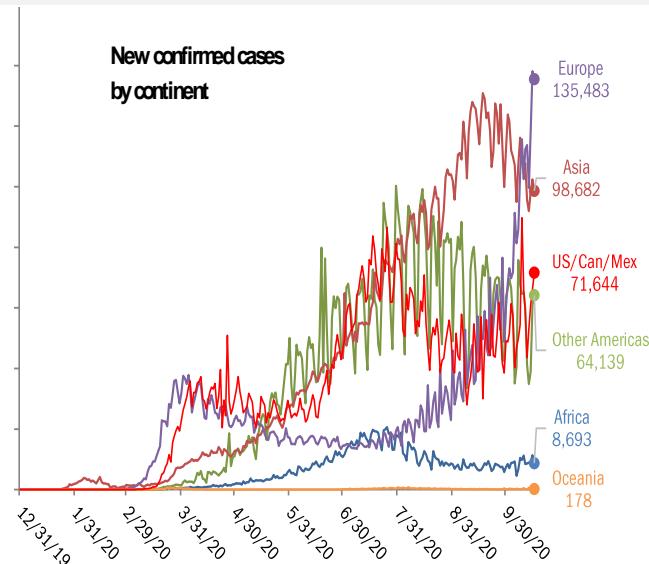


Data Insights: Covid-2019 Monitor

Friday, October 16, 2020

The global scorecard

The worst ten countries	
New cases	New Deaths
US +63,785	India +895
India +63,371	US +828
France +30,621	Brazil +713
Brazil +28,523	Argentina +421
United_Arab_Emirates +18,978	Mexico +387
UK +18,978	Russia +286
Argentina +17,096	Iran +256
Russia +13,754	South_Africa +158
South_Sudan +13,318	Colombia +151
Czechia +9,720	UK +138
+278,144	
World +378,819	World +5,861
Top ten 73%	Top ten 72%



Source: [ECDC](#), 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

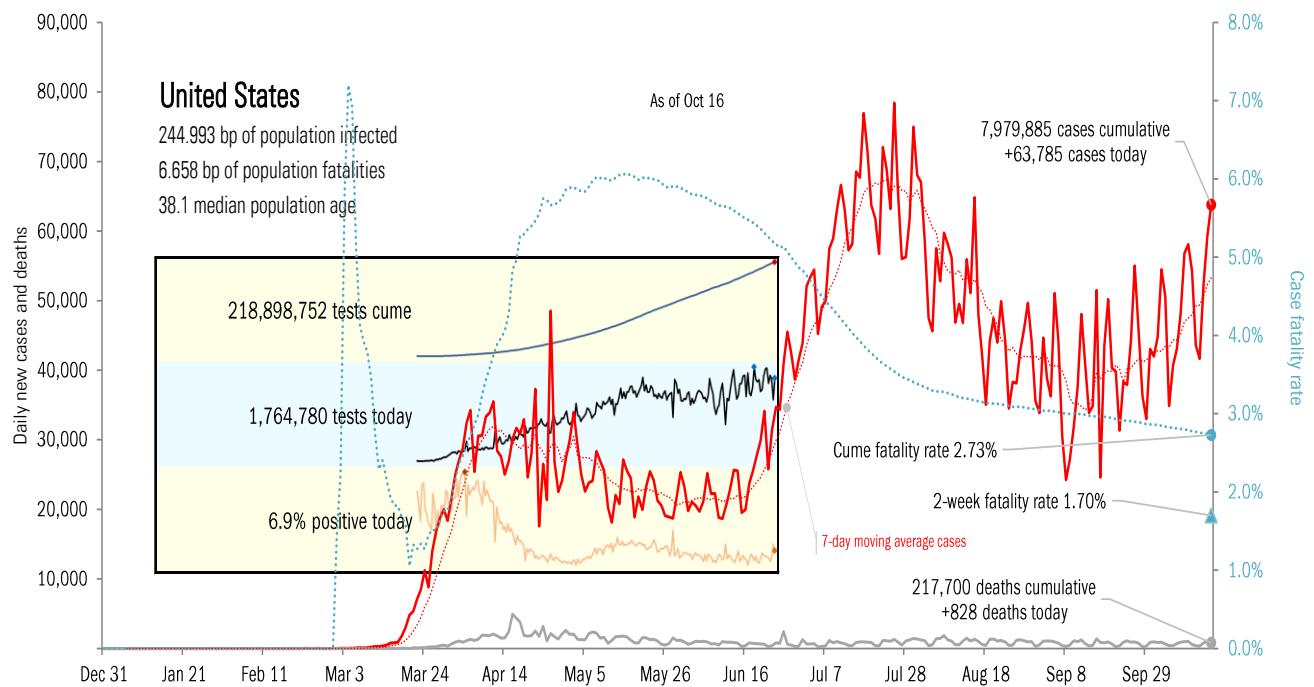
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases	New Deaths	New in hospital	Cumulative cases	Cumulative deaths	Cumulative in hospital
TX +4,726	FL +144	TX +132	CA 858,401	NY 25,618	NY 89,995
WI +4,040	CA +118	MI +101	TX 809,808	TX 16,812	FL 47,223
IL +4,015	TX +95	PA +50	FL 744,988	CA 16,757	GA 30,081
FL +3,356	IL +53	NJ +34	NY 479,400	NJ 16,197	NJ 24,092
CA +3,329	AL +50	ID +32	GA 336,241	FL 15,932	AZ 20,462
NC +2,532	TN +36	OK +32	IL 334,658	MA 9,672	VA 19,840
MI +2,458	MI +34	MO +30	NC 238,939	IL 9,373	AL 18,635
TN +2,289	IN +28	TN +30	AZ 228,748	PA 8,432	CH 16,824
CH +2,178	MA +25	KY +27	TN 222,827	GA 7,492	MD 16,255
IN +1,943	GA +22	WI +26	NJ 216,994	MI 7,302	IN 14,353
+30,866	+605	+494	4,471,004	133,587	297,760
All states +63,172	All states +951	All states +260	All states 7,939,566	All states 209,340	All states 430,887
Top ten 49%	Top ten 64%	Top ten 190%	Top ten 56%	Top ten 64%	Top ten 69%
Some states not reporting					

Five most improved US states

Fewer daily cases	Fewer new deaths	Fewer new hospitalizations	Most recoveries
MO -2,574	KS -67	IL -168	AL +6
KS -1,293	NC -22	KS -133	AR +5
PR -407	MS -13	CA -114	UT +4
CO -356	AR -12	SC -77	AK +0
MN -206	CH -11	IN -71	AS +0



Source: States and test data [Covid Tracking Project](#), US data [ECDC](#), TrendMacro calculations

Recommended reading

[COVID-19 Transmission in US Child Care Programs](#)

Walter S. Gilliam et al.

Pediatrics

October 2020

[Tory MP Chris Green resigns from government claiming Boris Johnson's attempted Covid-19 cure is 'worse than the disease' and is forcing businesses to the wall](#)

Darren Boyle

Daily Mail

October 13, 2020

[Kamala Harris Cancels Travel After Two on Her Plane Get Covid-19](#)

Jennifer Epstein

Bloomberg

October 15, 2020

[Medieval Europeans didn't understand how the plague spread. Their response wasn't so different from ours now.](#)

Chico Harlan and Stefano Pitrelli

Washington Post

October 15, 2020

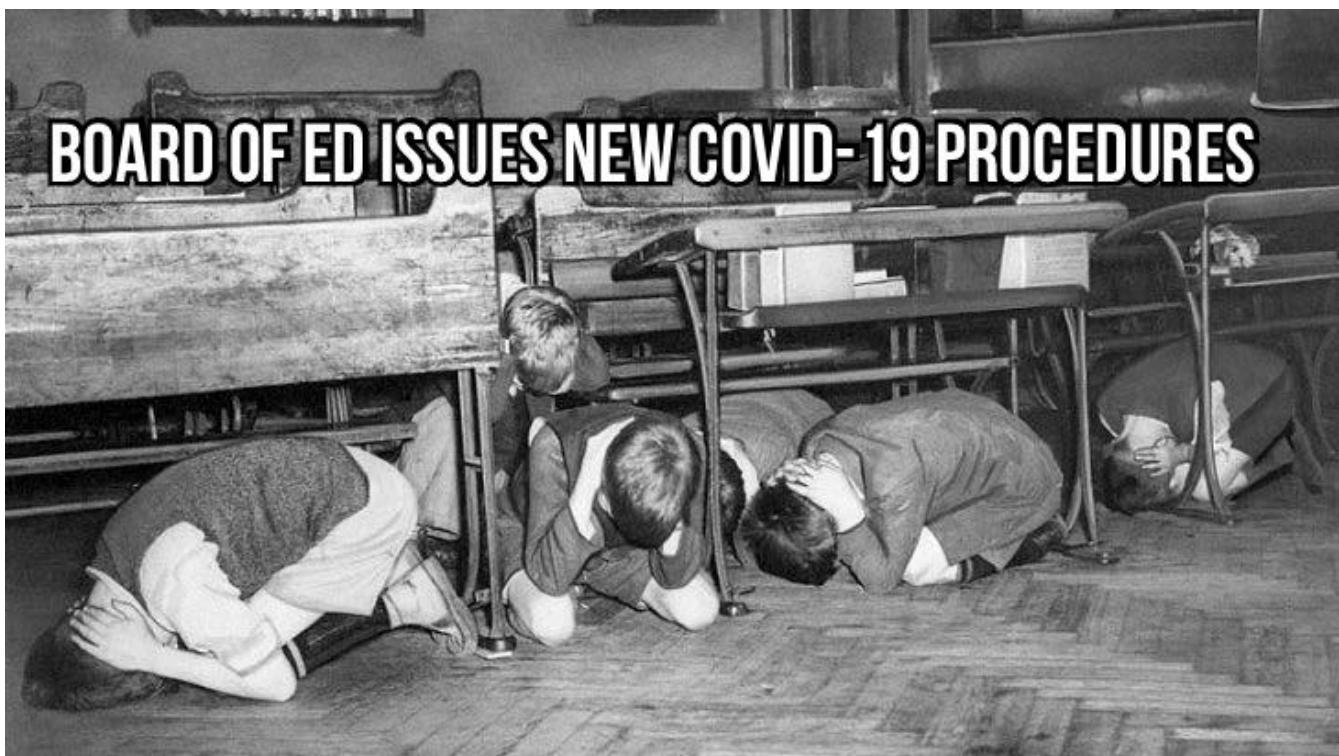
[Persistence and decay of human antibody responses to the receptor binding domain of SARS-CoV-2 spike protein in COVID-19 patients](#)

Anita S. Iyer et al.

Science Immunology

October 8, 2020

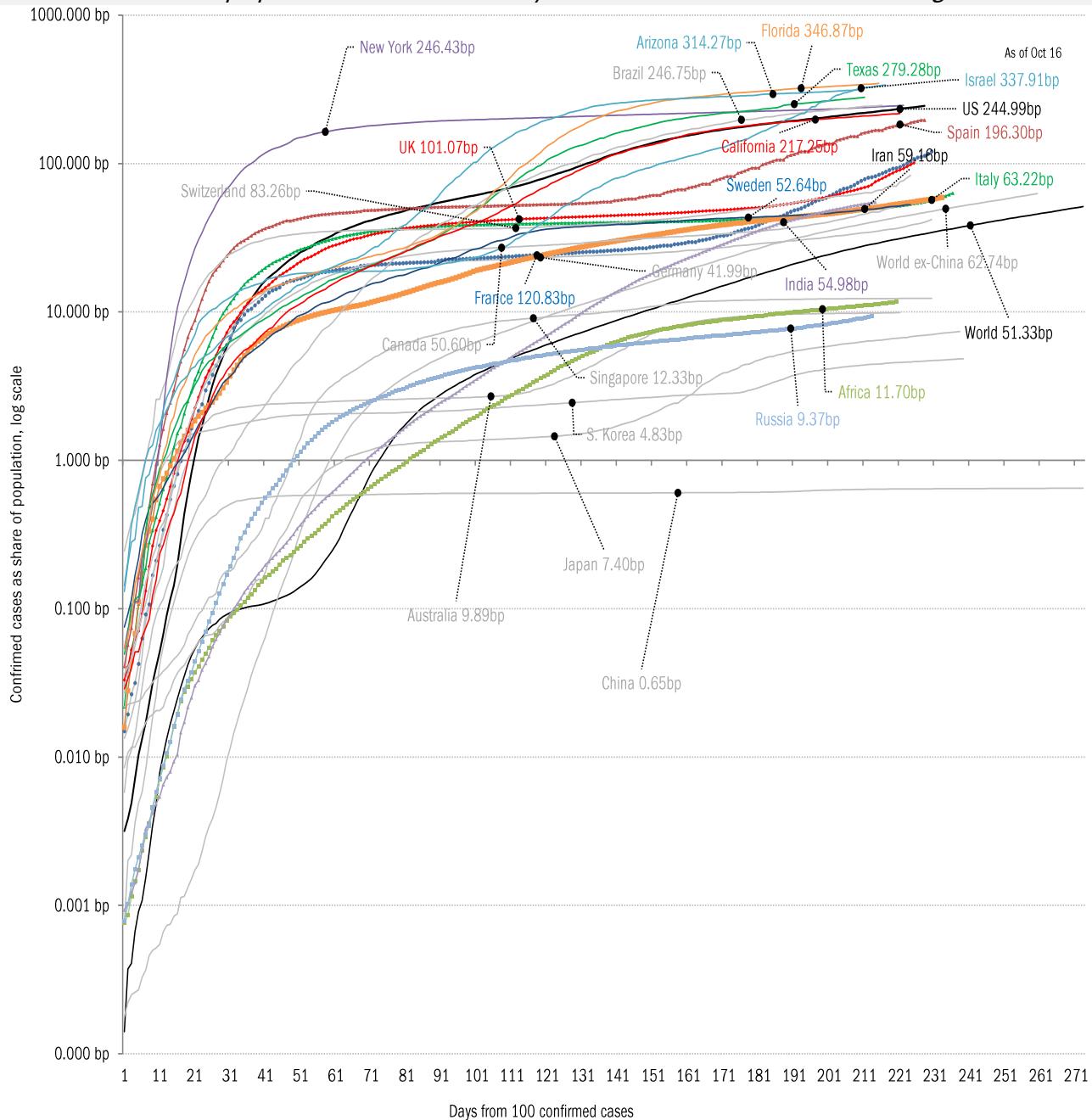
Meme of day



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

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

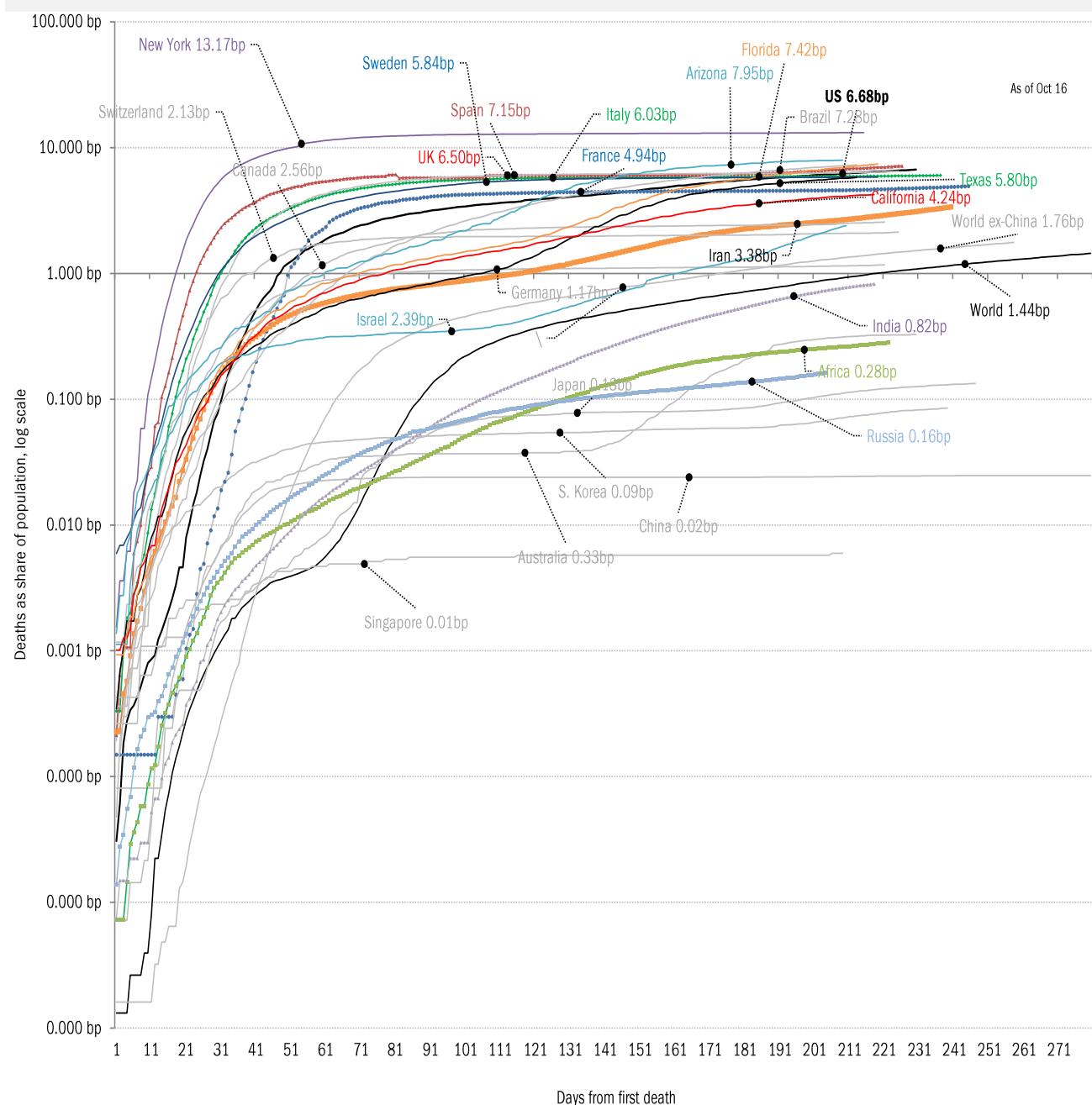
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

The coronavirus mortality accelerometer ... tracking the world's fatality curves

Share of deceased population from day of first fatality

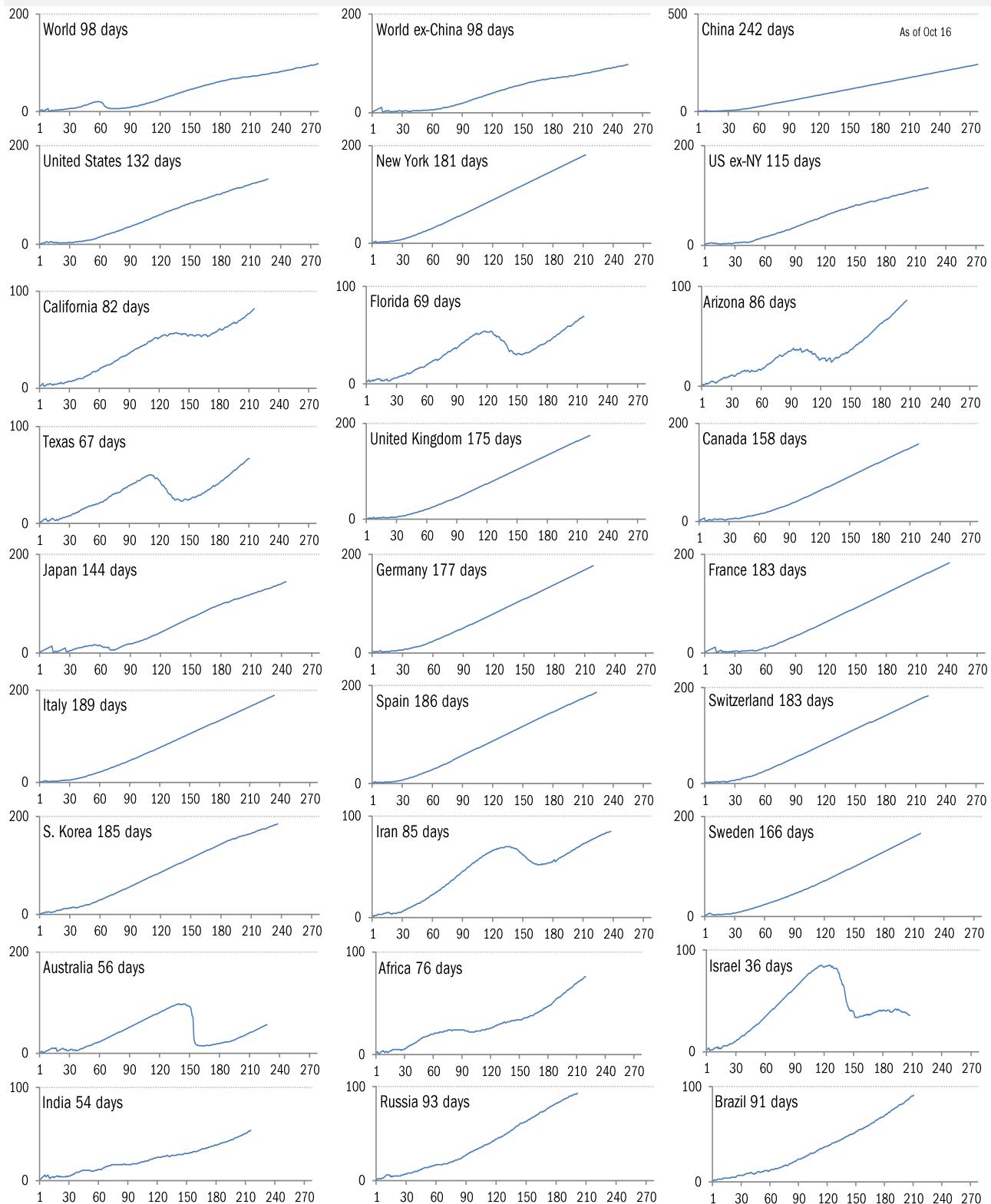


Source: [ECDC](#), TrendMacro calculations

Our most reliable evidence of slowing exponential growth of Covid-2019

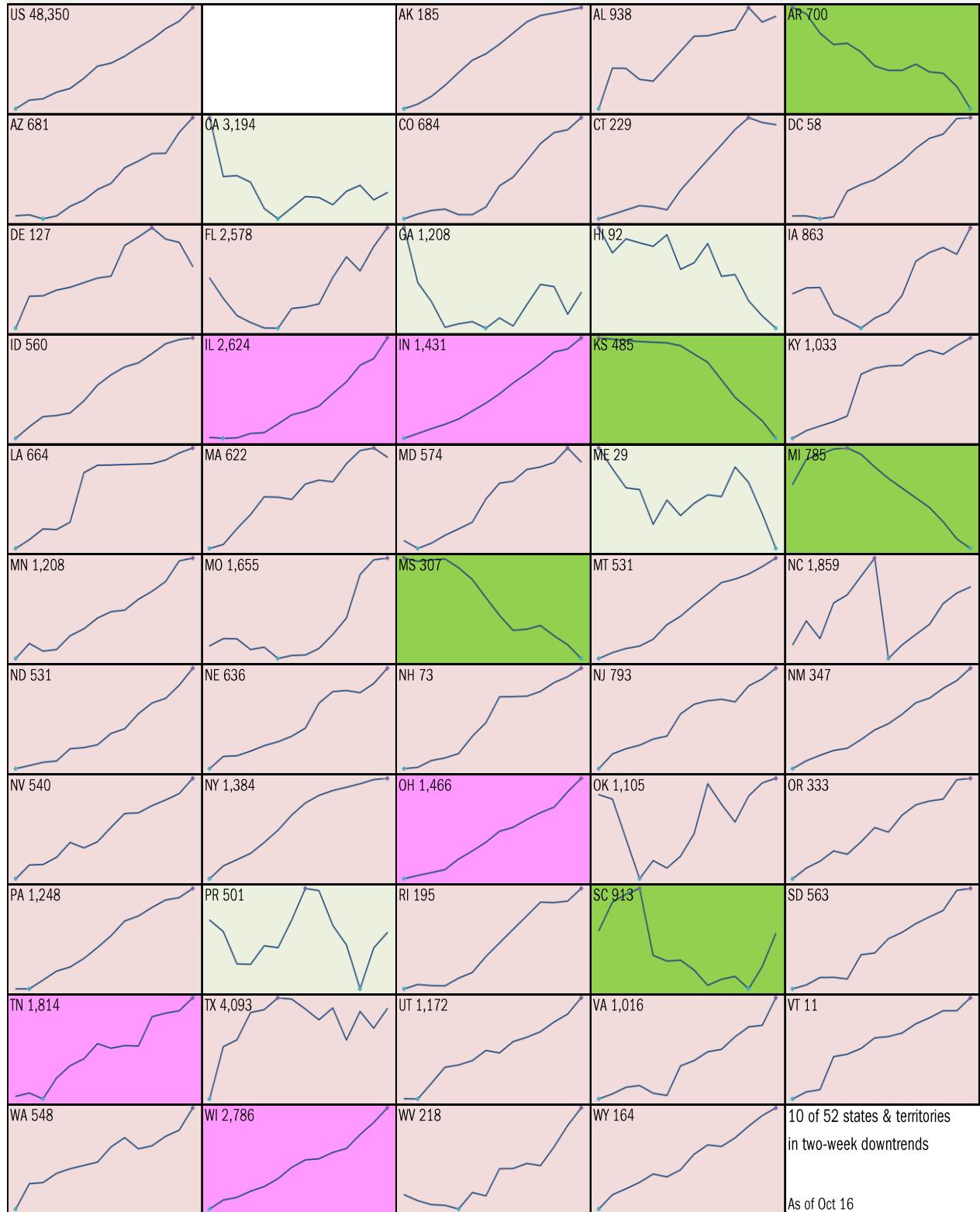
Vertical: days to double deaths Horizontal: days from first death

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread



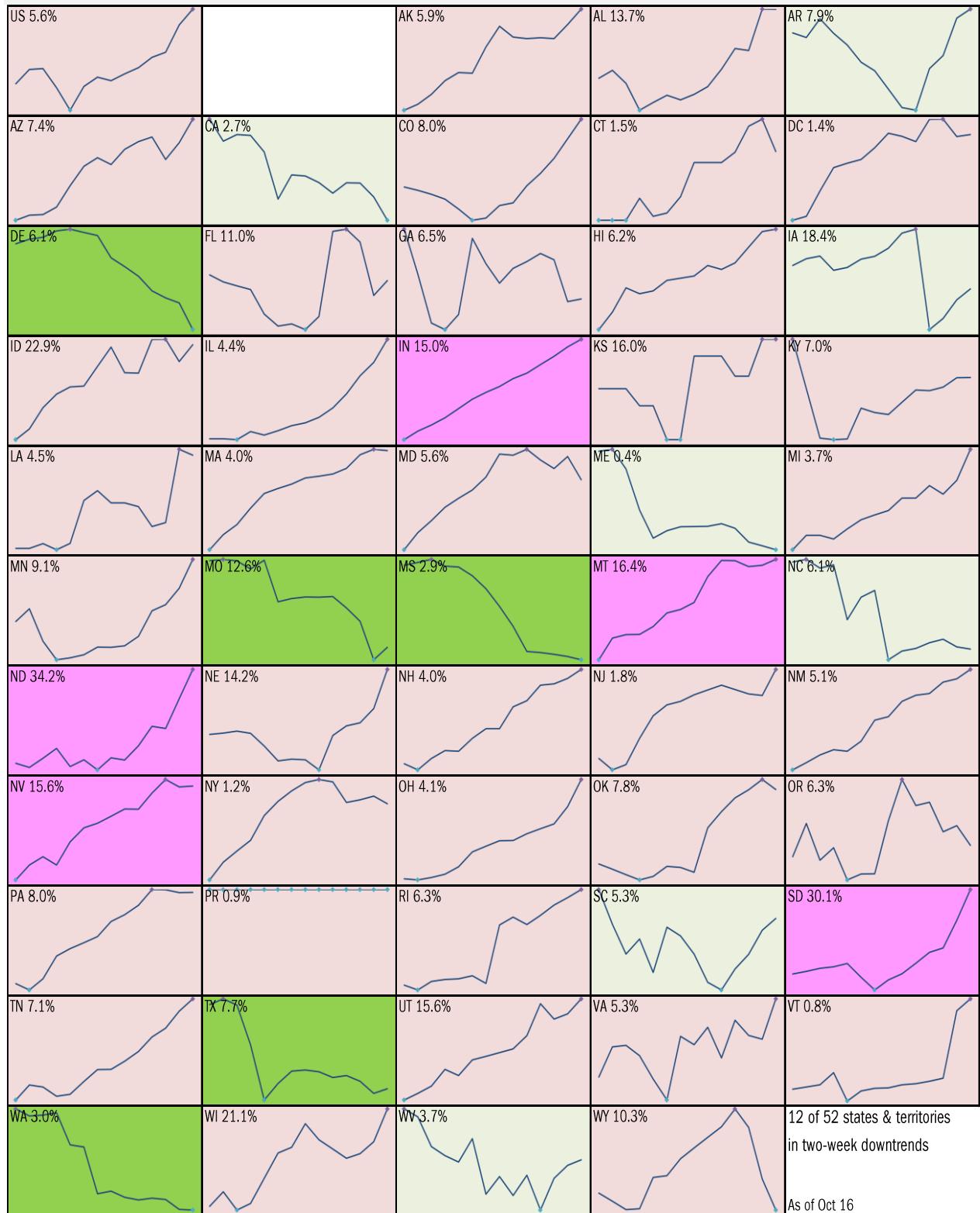
Source: [ECDC](#), TrendMacro calculations

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

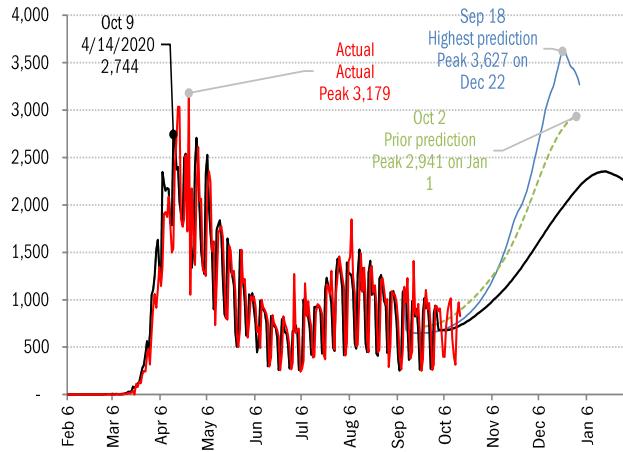


Source: [Covid Tracking Project](#), TrendMacro calculations

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

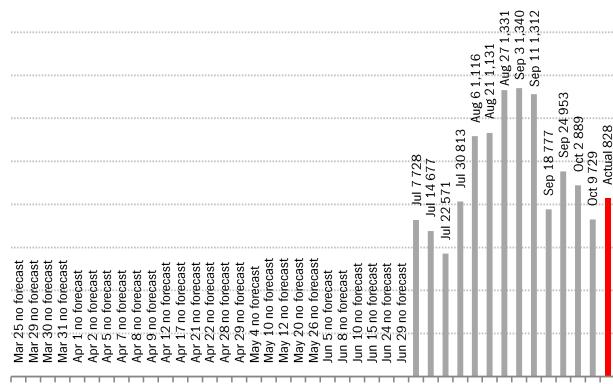
New daily fatalities

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



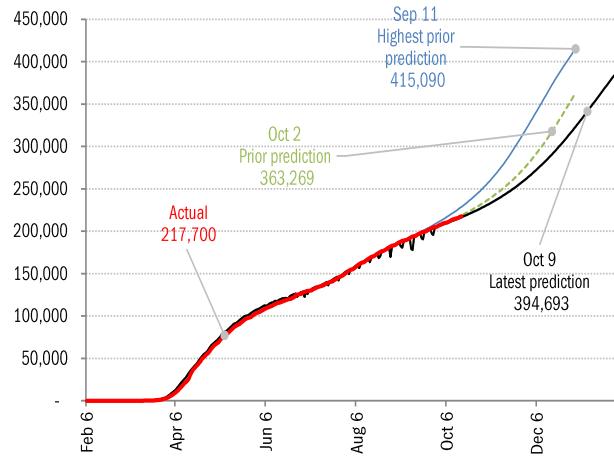
As of Oct 16

For this day, versus all model mean predictions

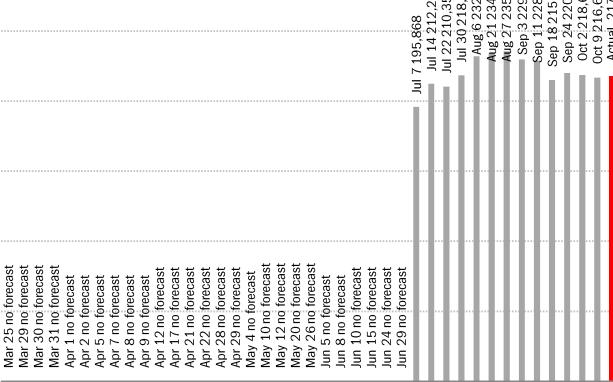


Cumulative fatalities

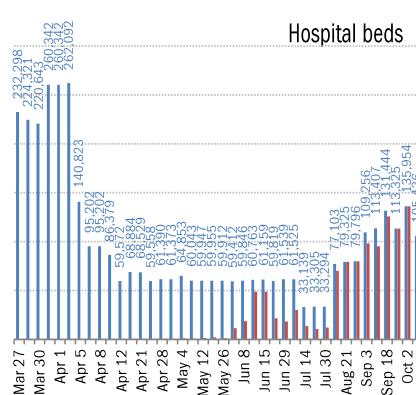
Actual versus first, highest, lowest and latest model mean predictions



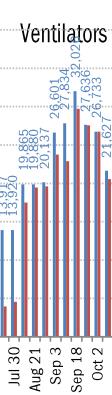
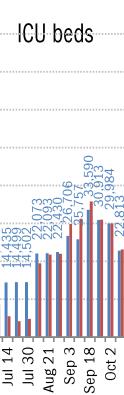
For this day, versus all model mean predictions



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

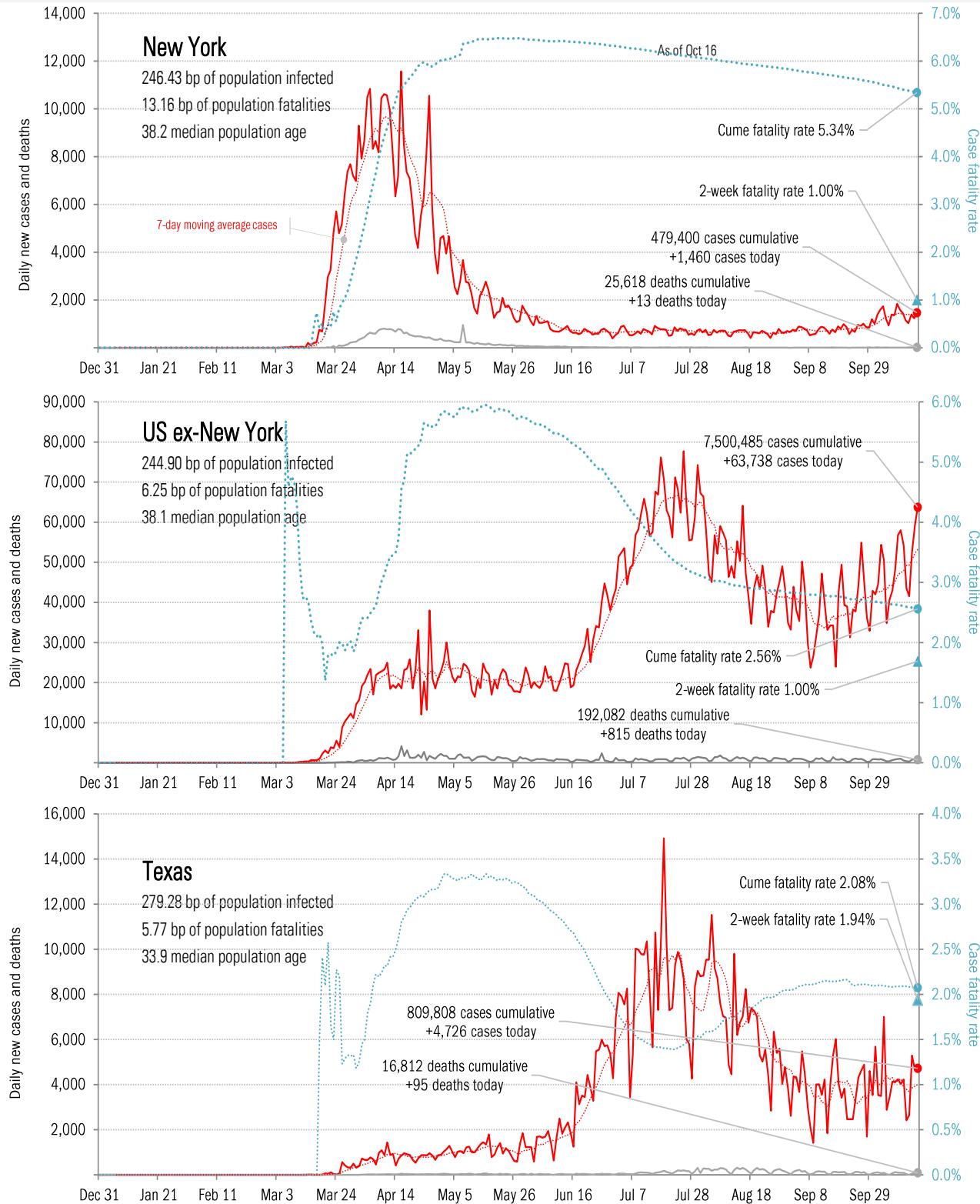


ICU beds



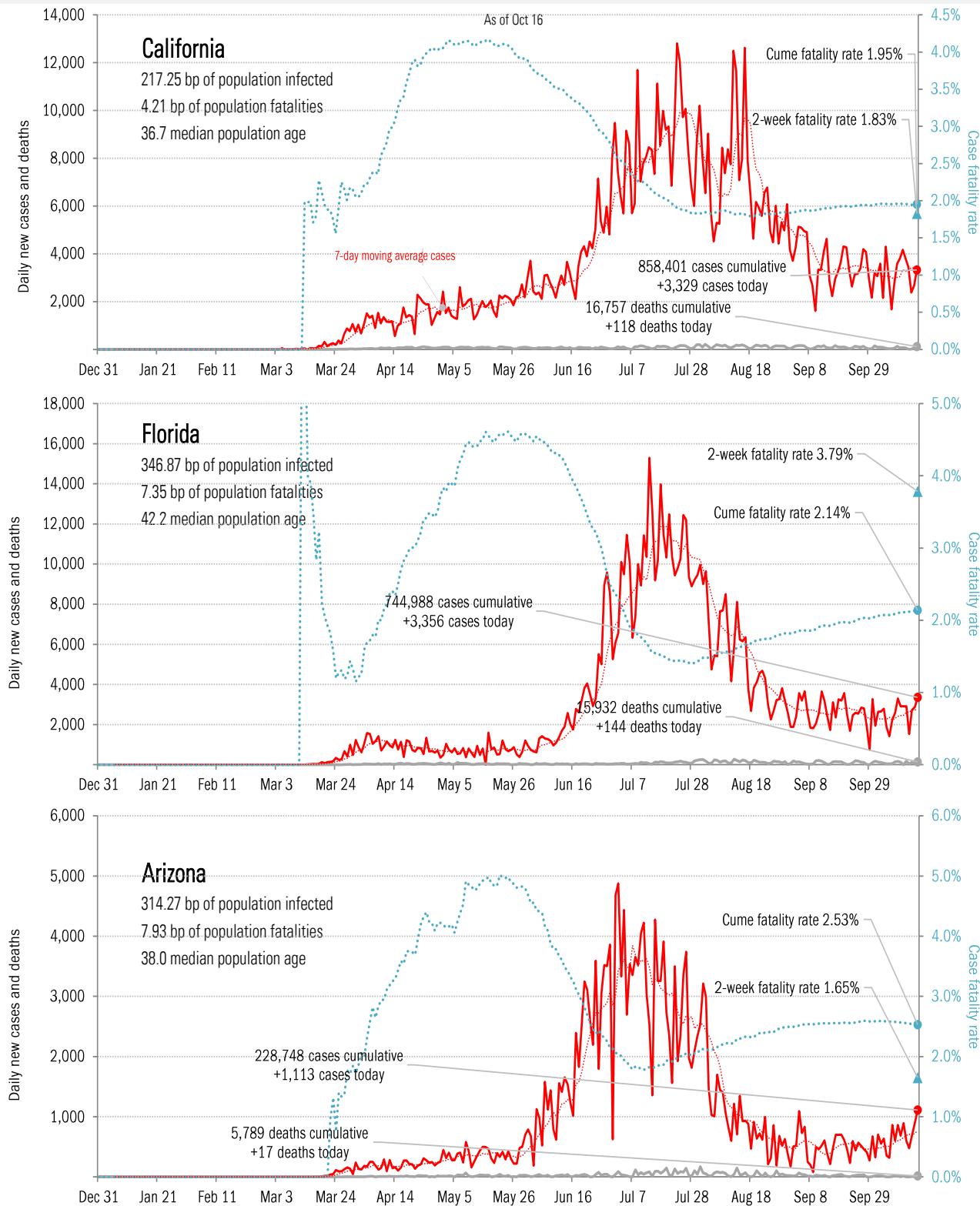
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



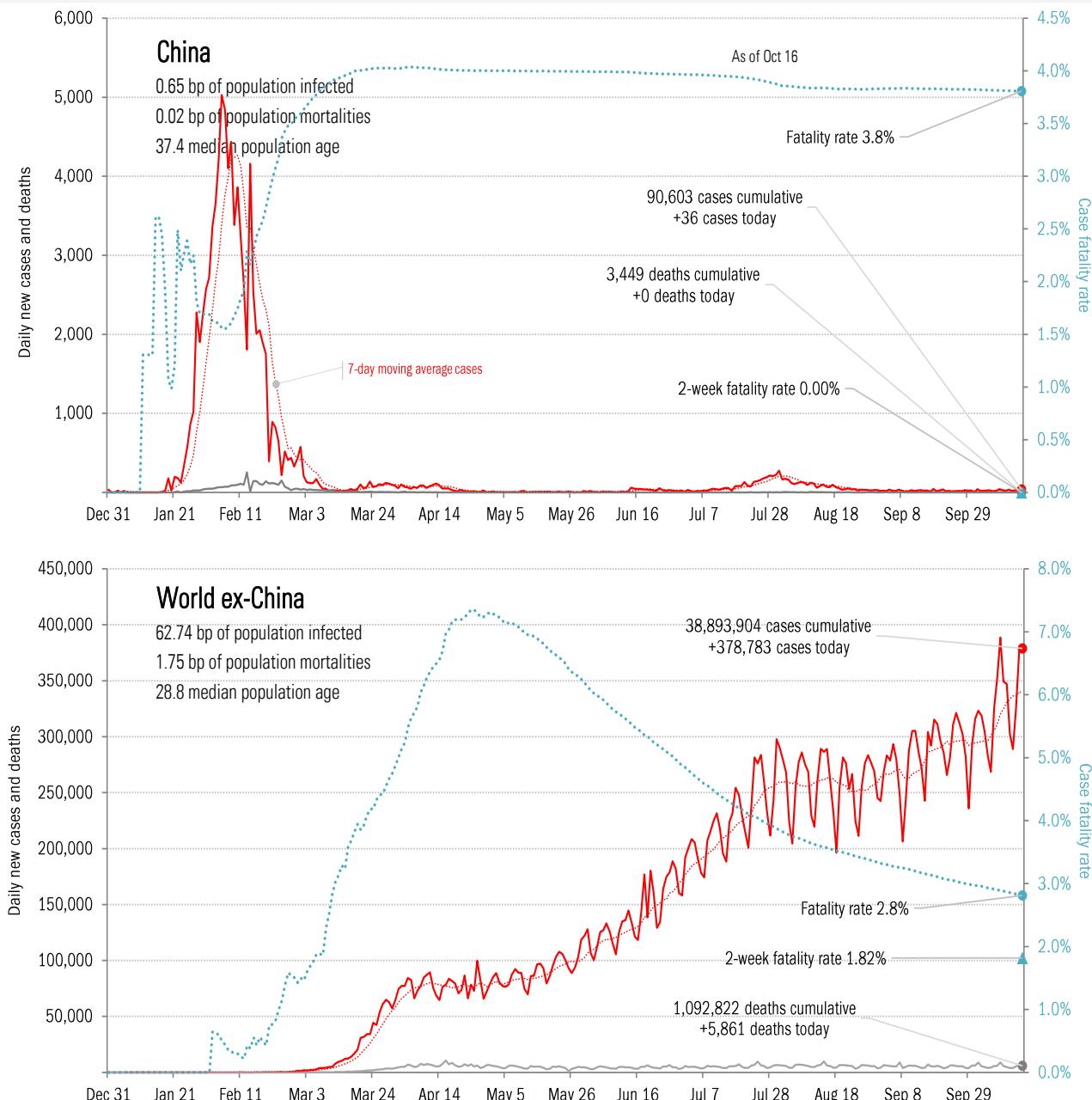
Source: [ECDC](#), TrendMacro calculations

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



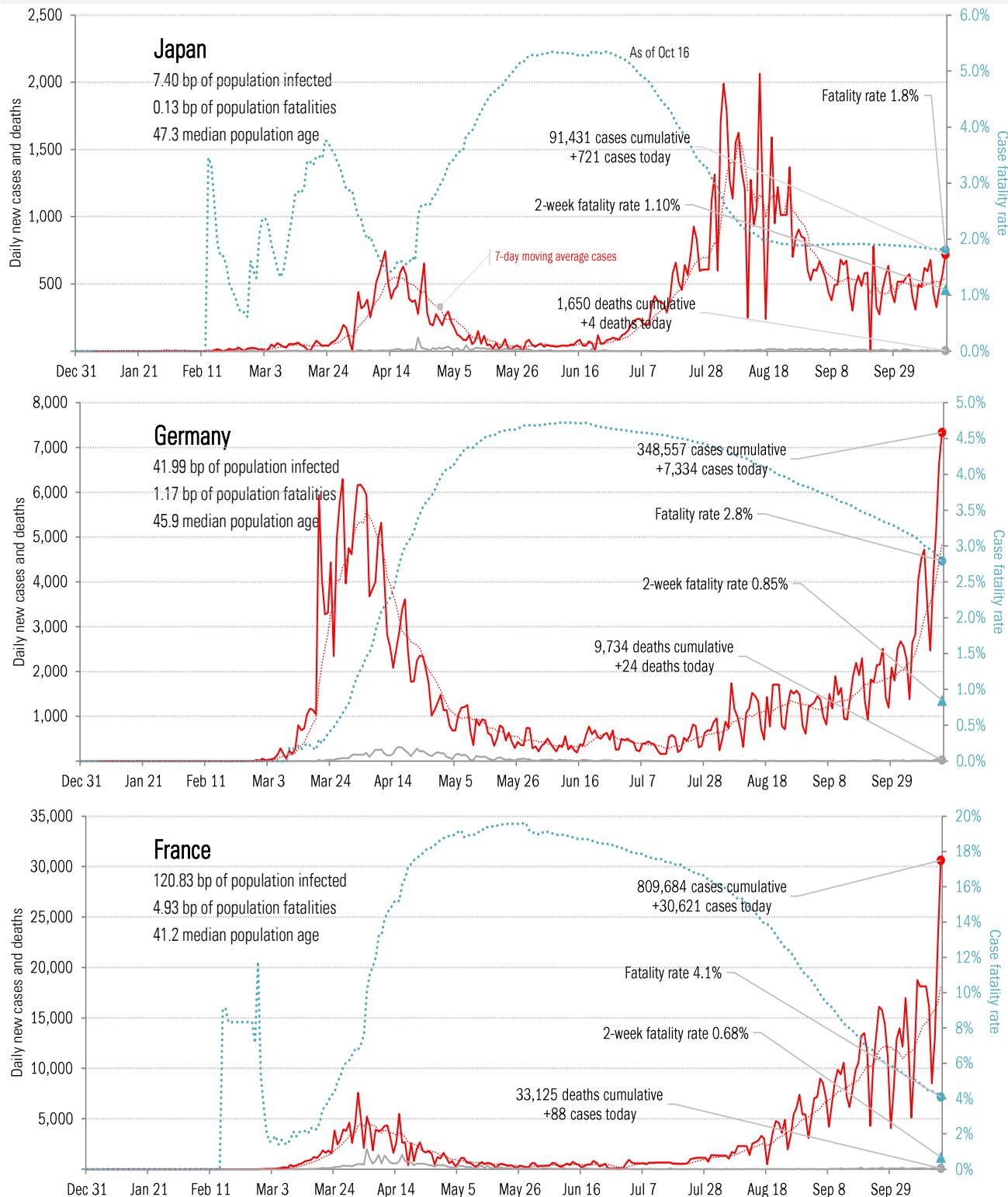
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



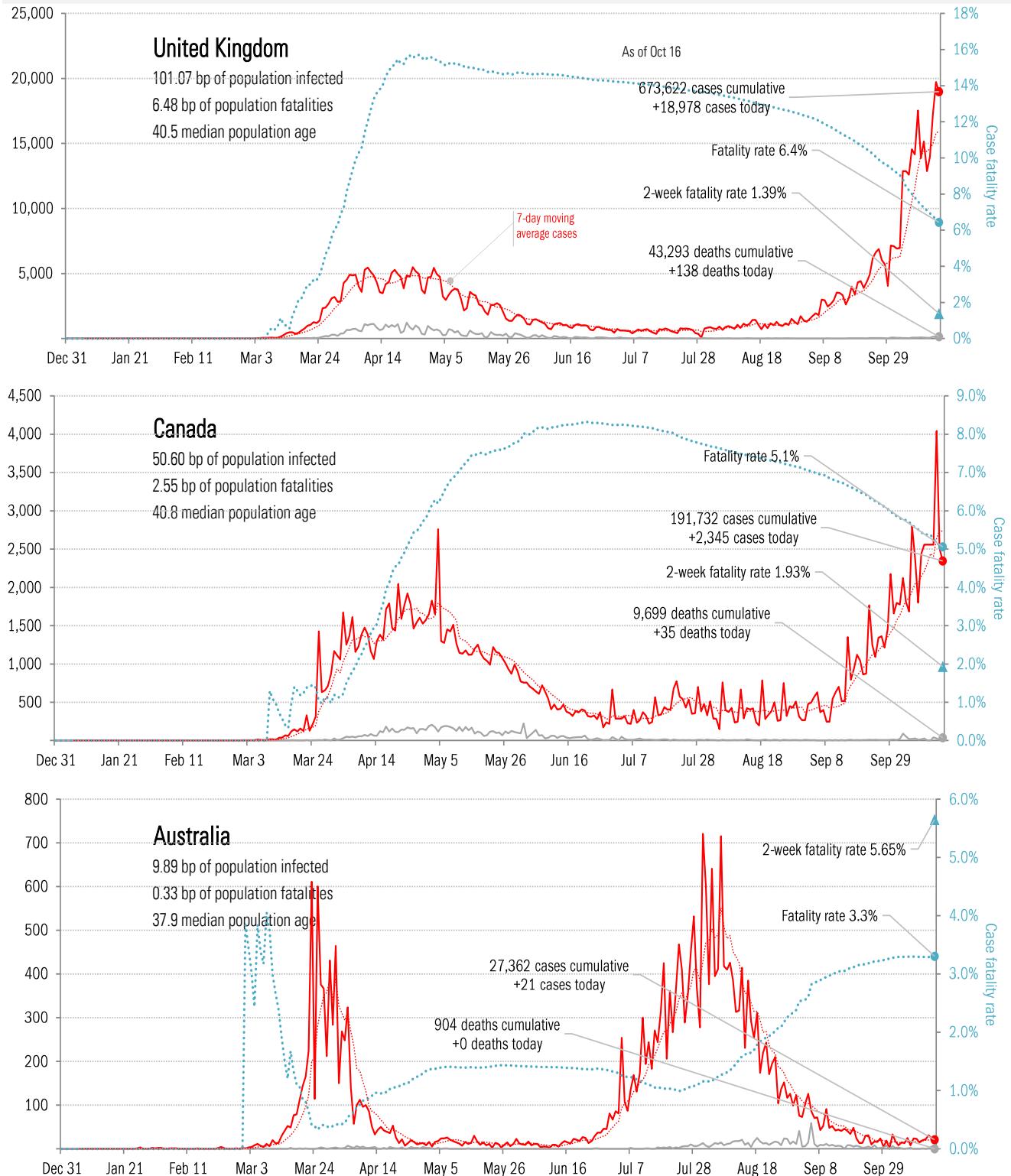
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



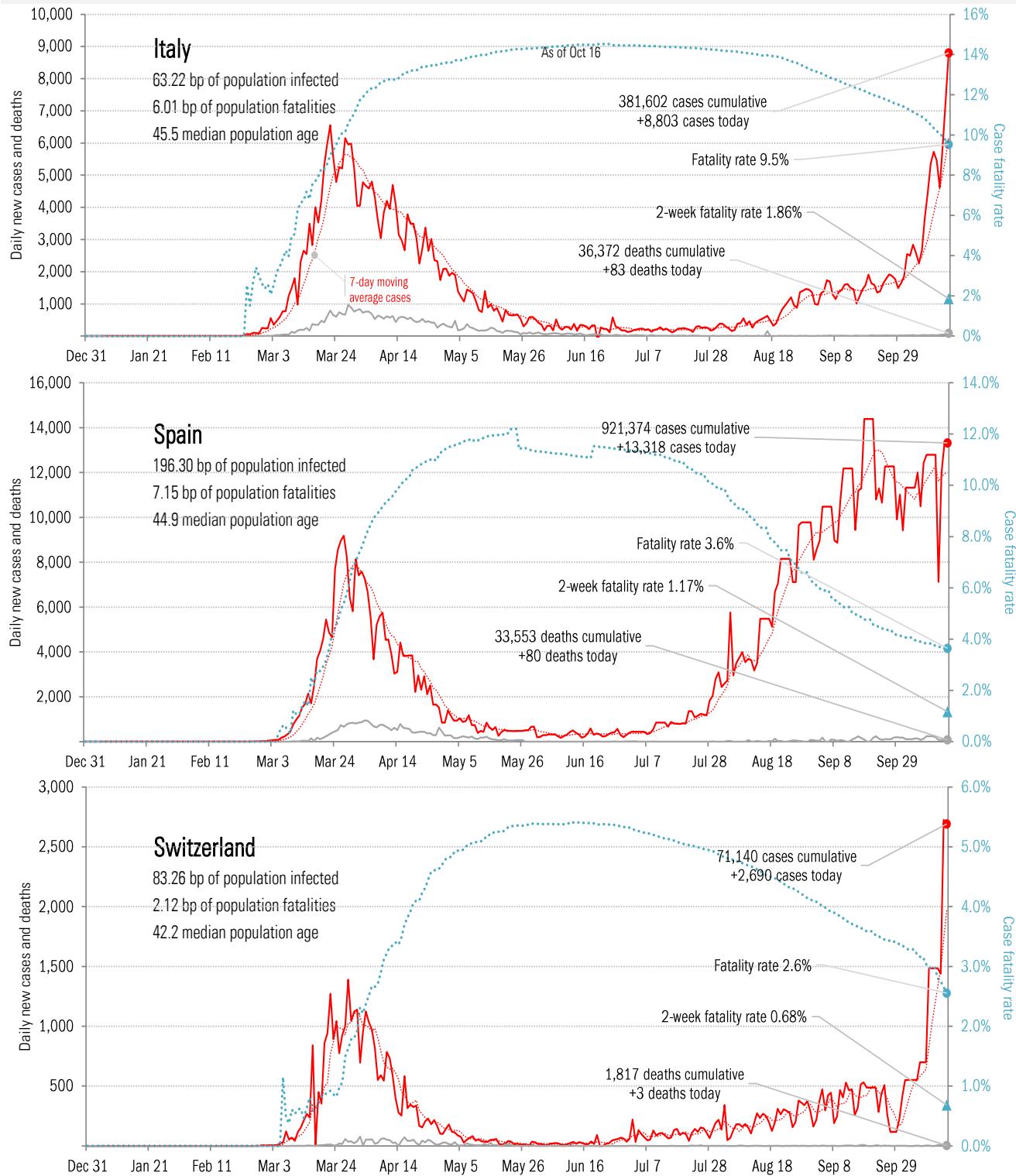
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



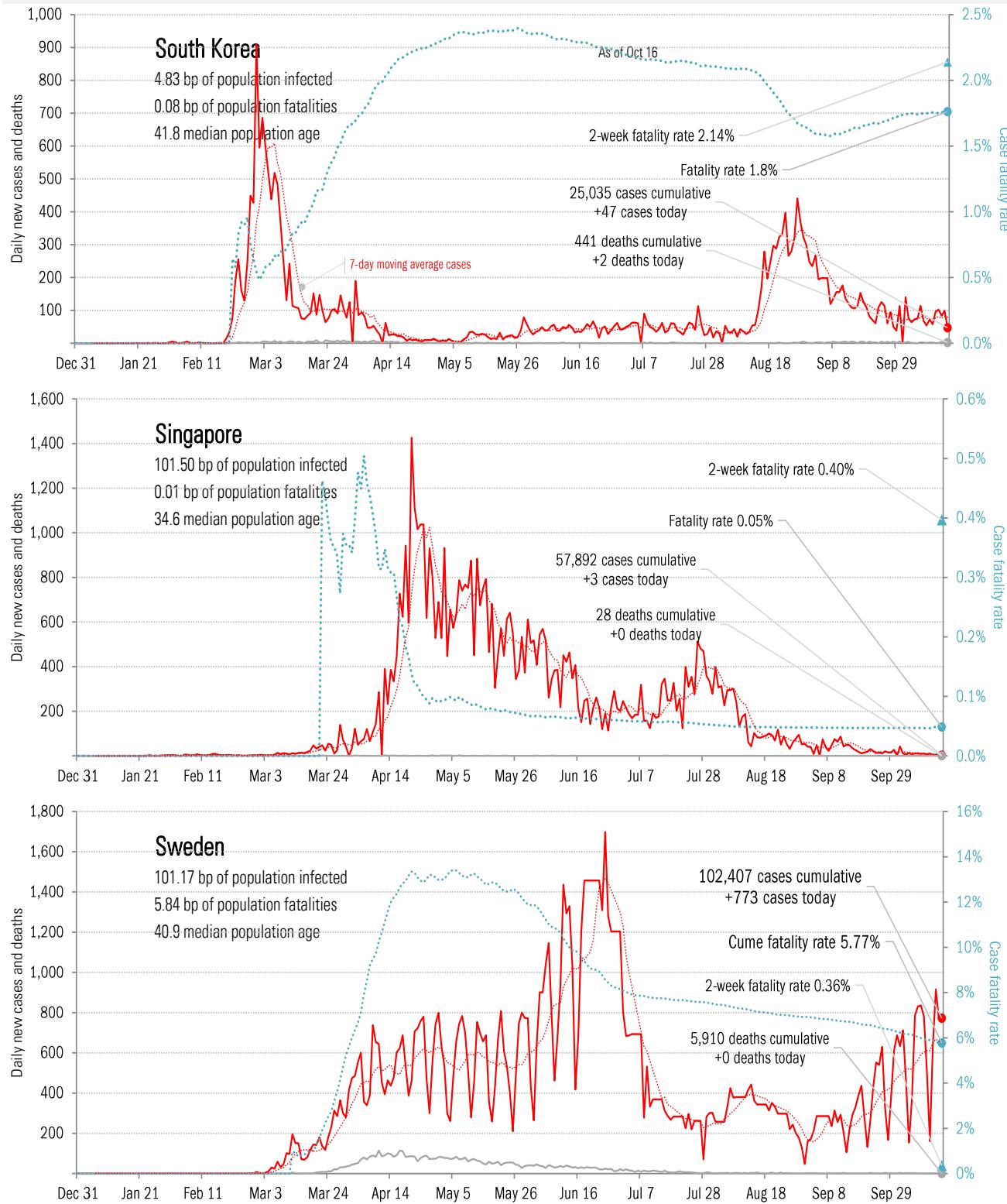
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



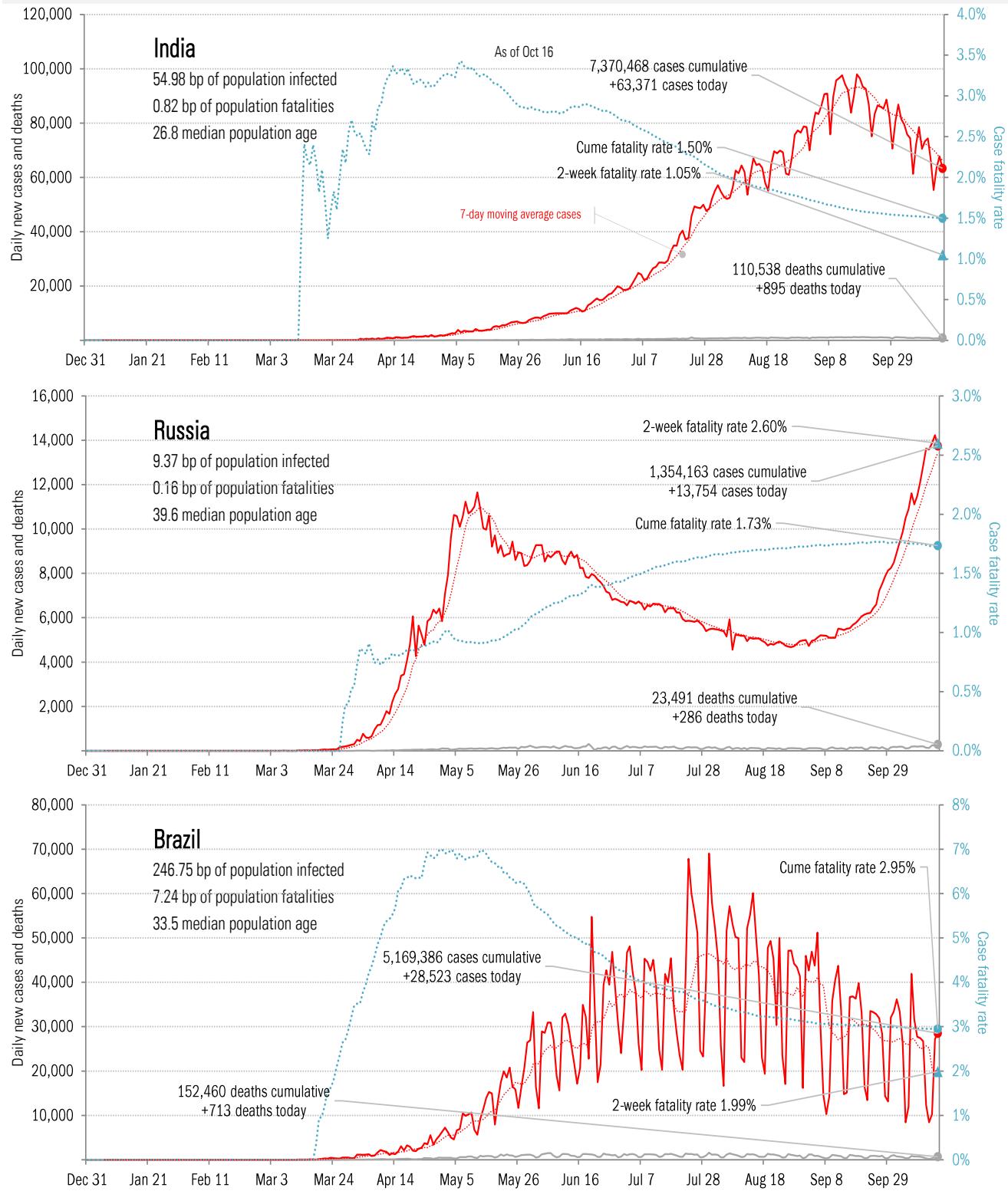
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



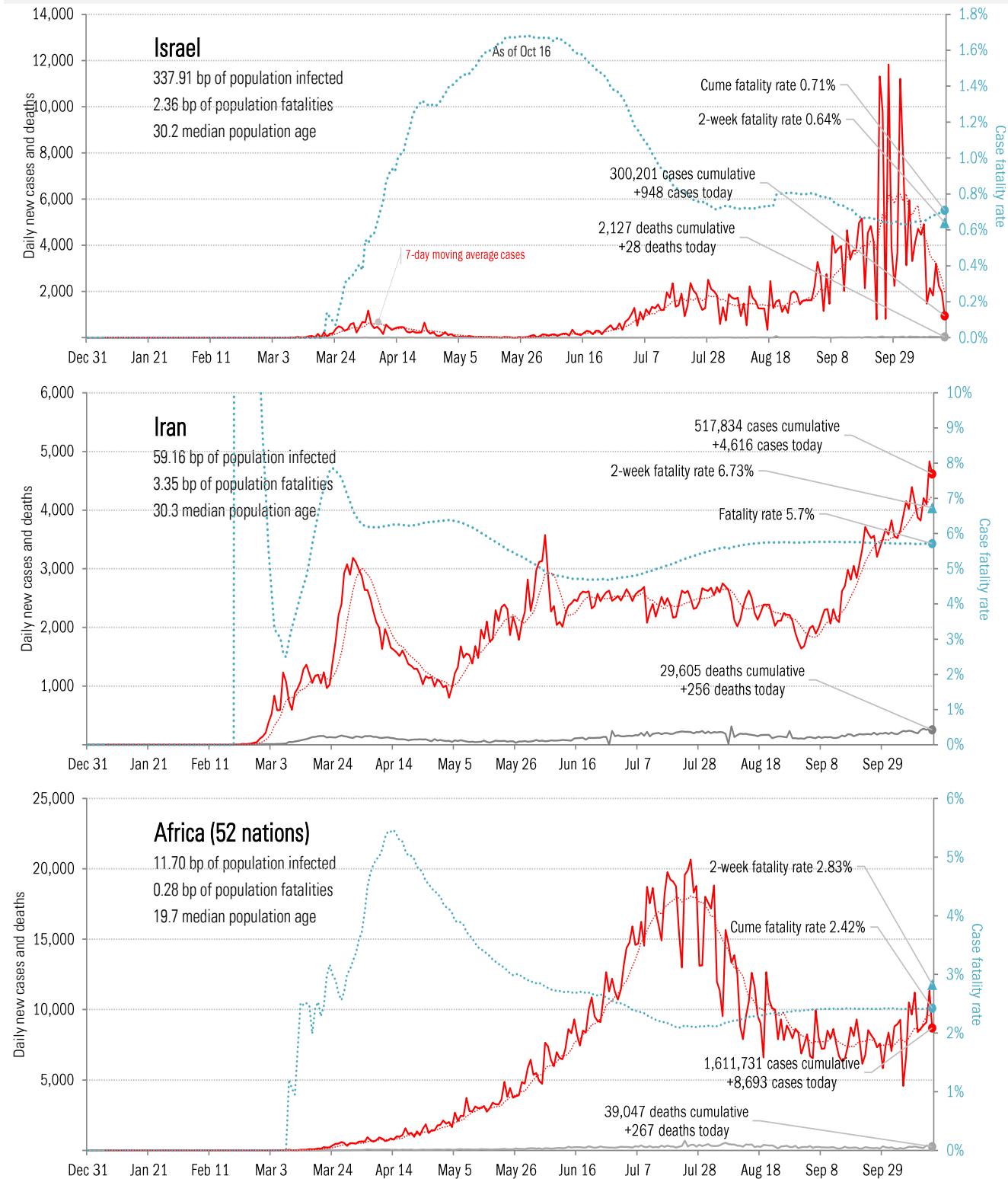
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations