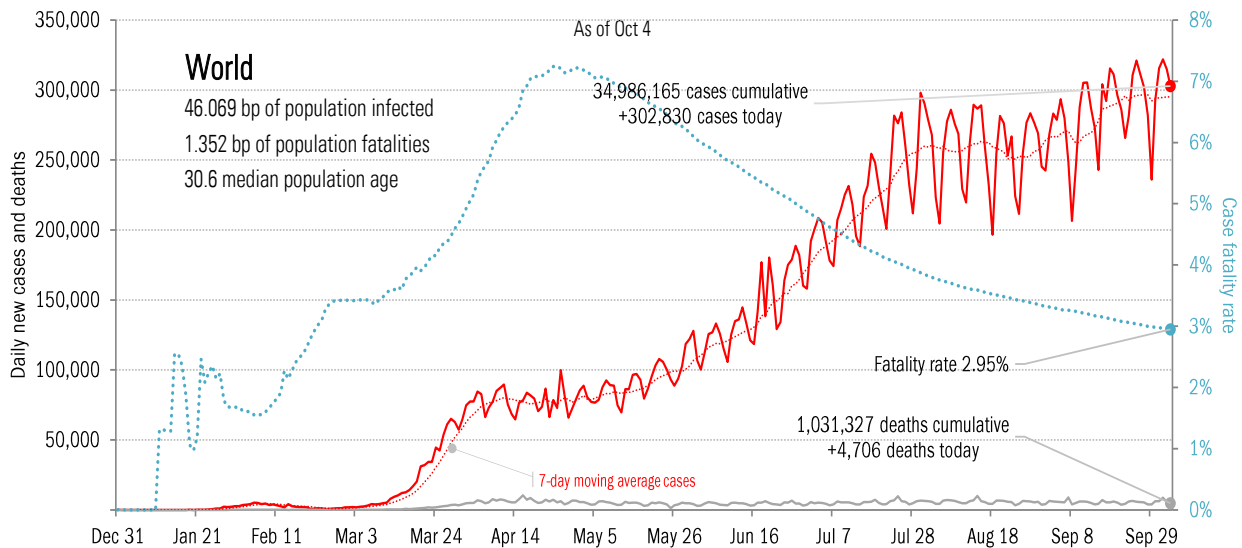
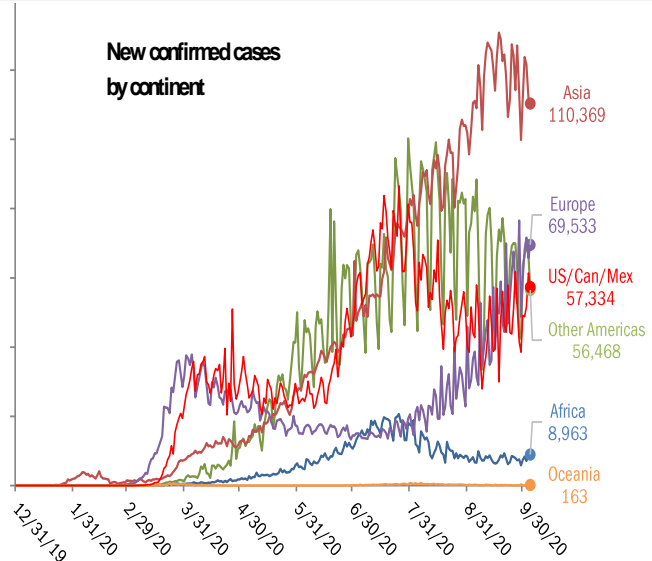


Data Insights: Covid-2019 Monitor

Sunday, October 4, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+75,829	India	+940
US	+50,659	US	+678
Brazil	+26,310	Brazil	+599
France	+16,972	Mexico	+388
Spain	+11,325	Argentina	+196
Argentina	+11,129	Iran	+179
Russia	+9,859	Russia	+174
UK	+6,968	Colombia	+159
Colombia	+6,616	Ecuador	+102
Israel	+5,955	Ukraine	+92
+221,622		+3,507	
World	+302,830	World	+4,706
Top ten	73%	Top ten	75%



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

Copyright 2020 Trend Macrolytics LLC. All rights reserved. This document is not to be forwarded to individuals or organizations not authorized by Trend Macrolytics LLC to receive it. For information purposes only; not to be deemed to be recommendations for buying or selling specific securities or to constitute personalized investment advice. Derived from sources deemed to be reliable, but no warranty is made as to accuracy.

The US scorecard

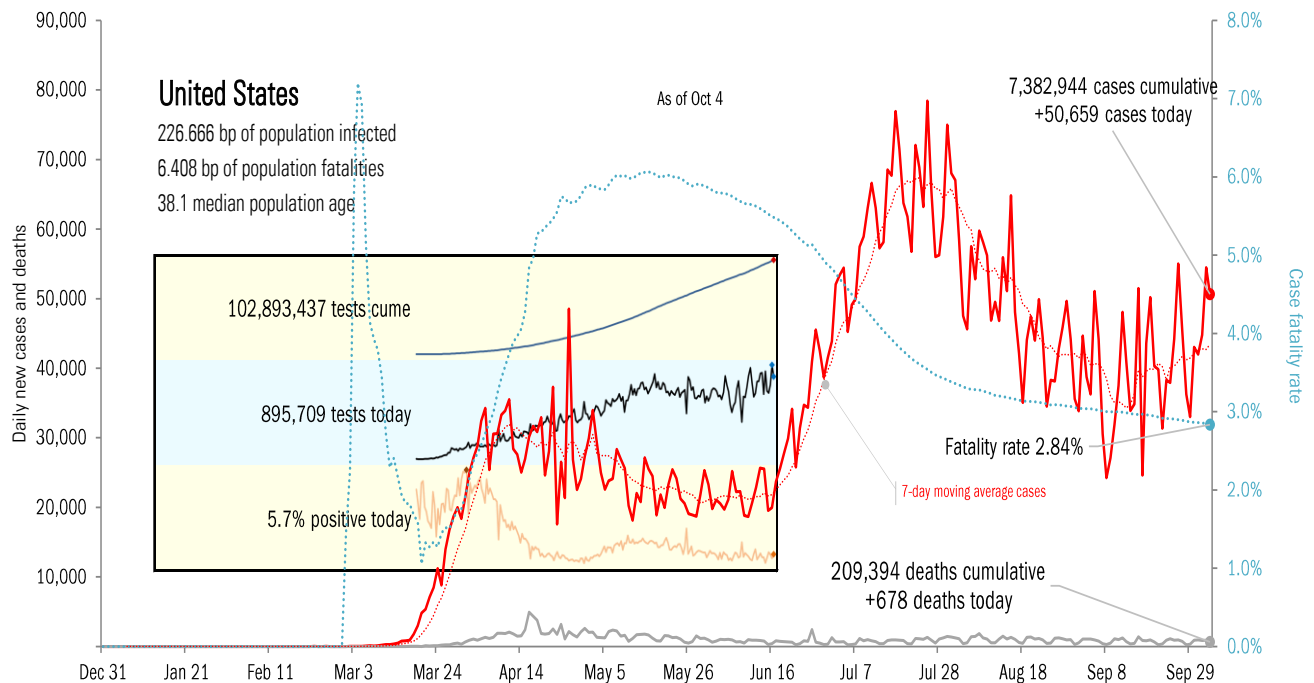
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
TX	+7,006	TX	+97	FL	+160	CA	819,436	NY	25,505	NY	89,995
WI	+3,054	CA	+88	GA	+133	TX	763,010	NJ	16,135	FL	45,151
FL	+2,787	FL	+73	MD	+96	FL	714,591	CA	16,074	GA	28,924
IL	+2,442	TN	+45	IN	+85	NY	463,360	TX	15,992	NJ	23,511
NC	+2,202	SC	+33	WI	+82	GA	322,078	FL	14,803	AZ	22,280
CA	+2,159	IL	+31	CO	+74	IL	302,827	MA	9,507	VA	18,716
NY	+1,731	GA	+28	VA	+74	AZ	220,399	IL	9,023	AL	17,420
MO	+1,708	MO	+25	MN	+53	NC	216,886	PA	8,199	CH	15,735
SC	+1,706	NC	+21	CH	+47	NJ	207,576	GA	7,134	MD	15,670
AL	+1,682	CH	+20	AZ	+40	TN	199,595	MI	7,124	IN	13,068
+26,477		+461		+844		4,229,758		129,496		290,470	
All states	+51,203	All states	+740	All states	+1,138	All states	7,345,232	All states	201,351	All states	412,889
Top ten	52%	Top ten	62%	Top ten	74%	Top ten	58%	Top ten	64%	Top ten	70%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CA	-1,431	CH	-68	AL	-163	TX	+5,100
KS	-1,362	FL	-38	KS	-66	MI	+4,470
PA	-1,161	LA	-26	OK	-58	IN	+2,029
LA	-817	IL	-21	SC	-56	WI	+1,843
CT	-555	KS	-20	CH	-35	AR	+1,586



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

Recommended reading

[Covid: UK announces 12,872 new cases after technical glitch](#)

BBC

October 4, 2020

[Trump's Vitals Called Concerning Despite Doctor's Upbeat Report](#)

Josh Wingrove and Jordan Fabian

Bloomberg

October 3, 2020

['We're still not on a clear path to a full recovery,' the president's chief of staff said](#)

New York Times

October 3, 2020

Meme of day



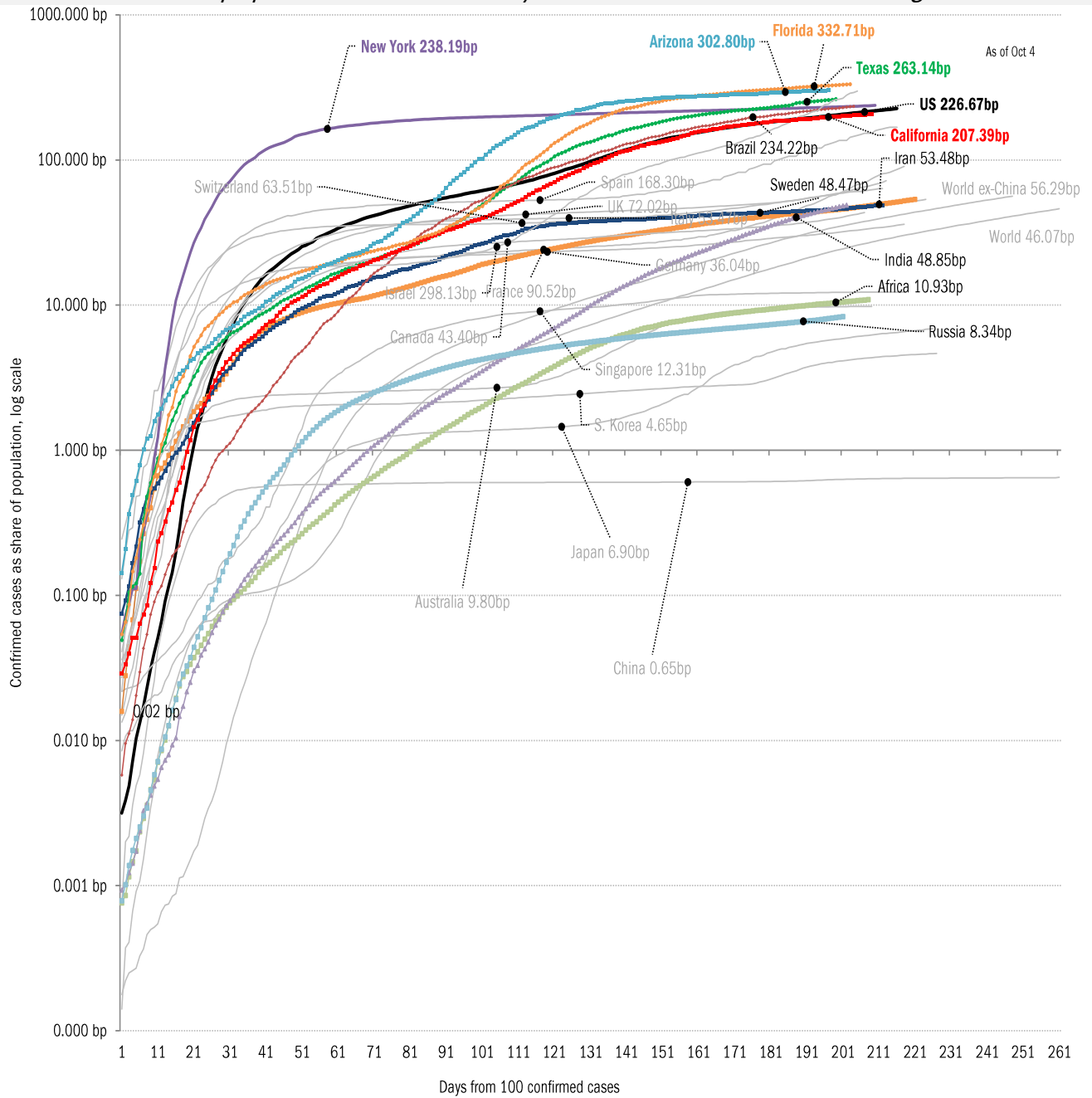
Dr. Richard Harambe @Richard_Harambe · 9h

My greatest wish right now is for Trump to get better and donate plasma so a treatment can be developed and the libs can be saved by Trump's blood 🙏



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

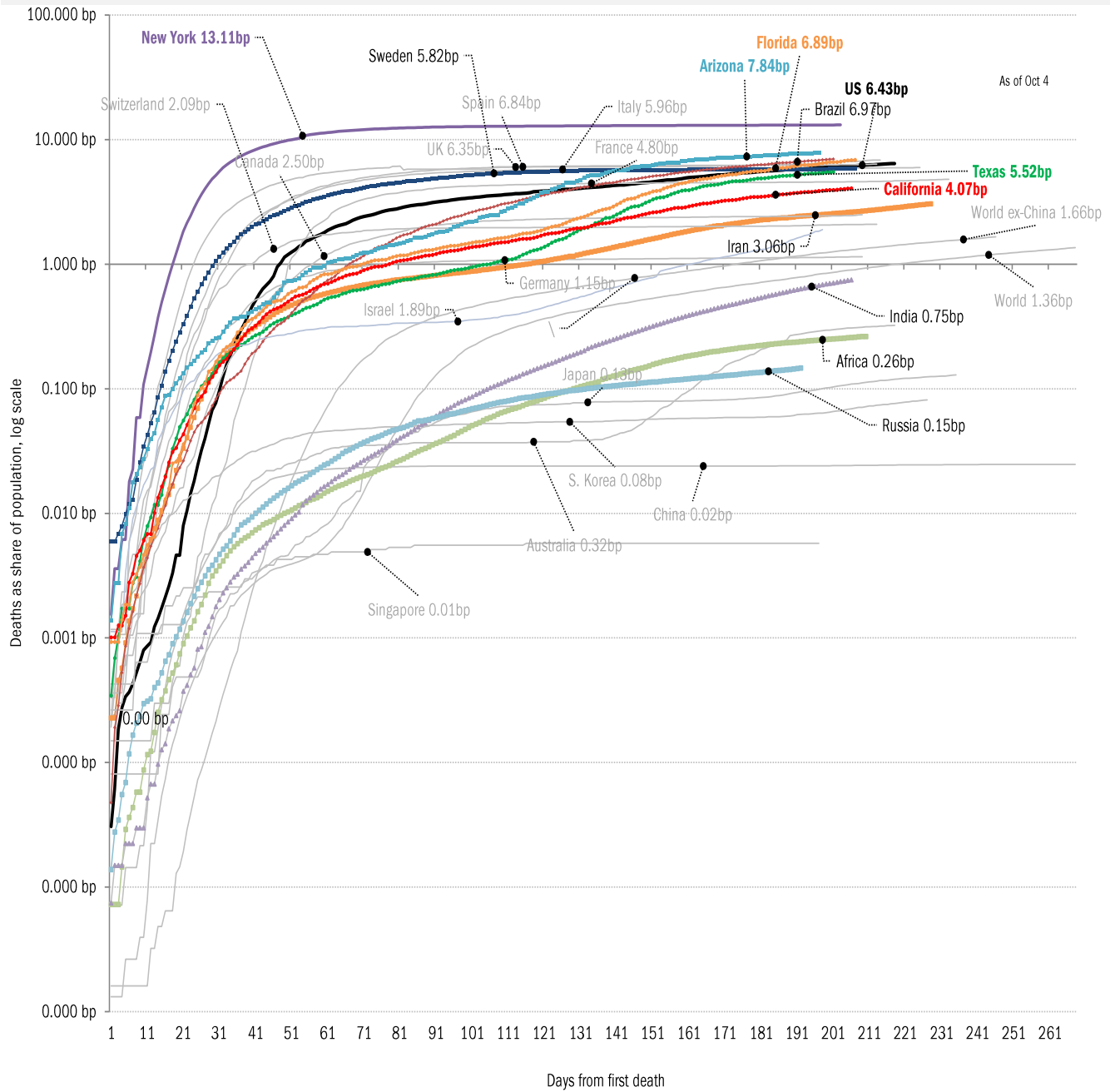
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

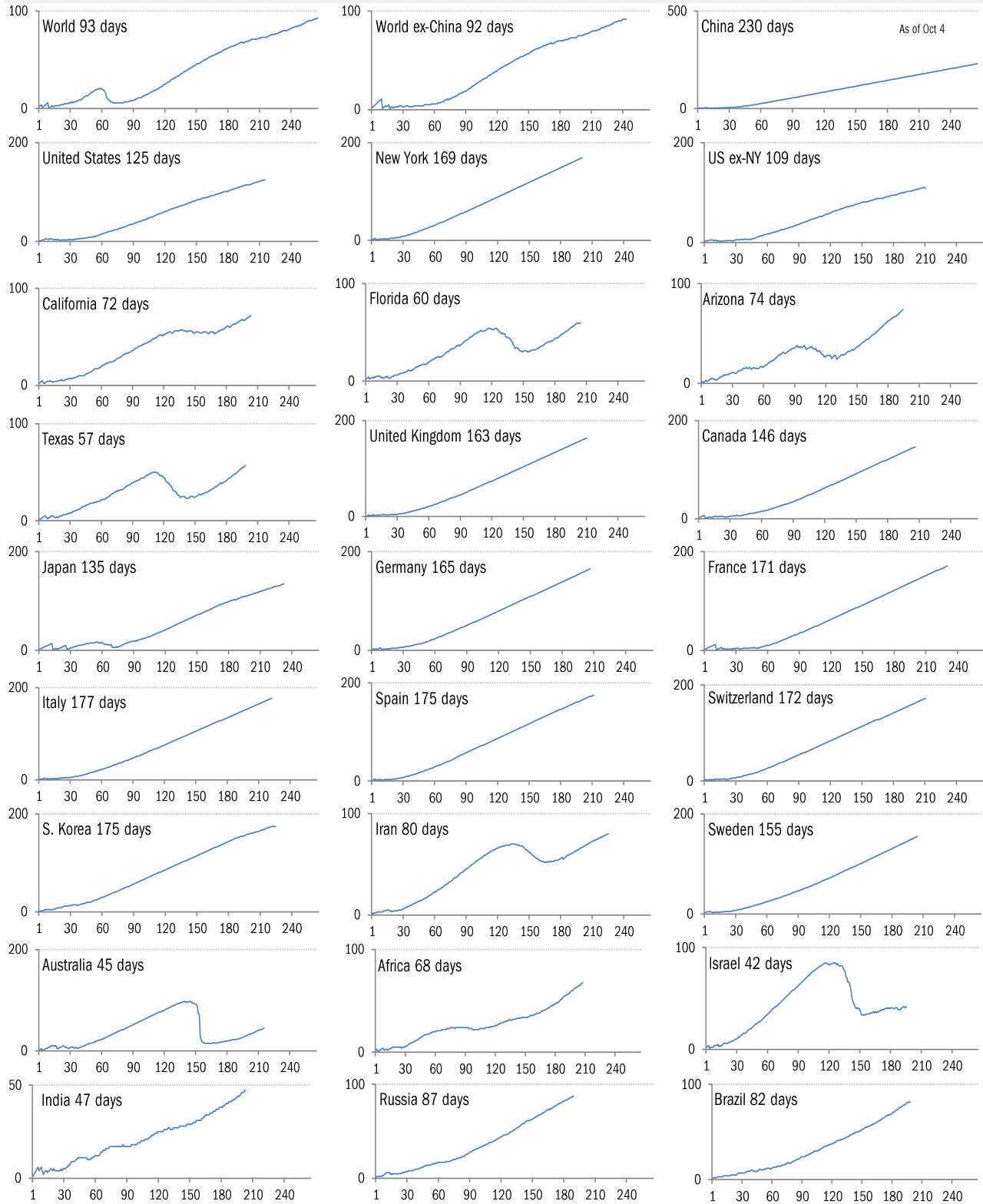


Source: [ECDC](#), TrendMacro calculations

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

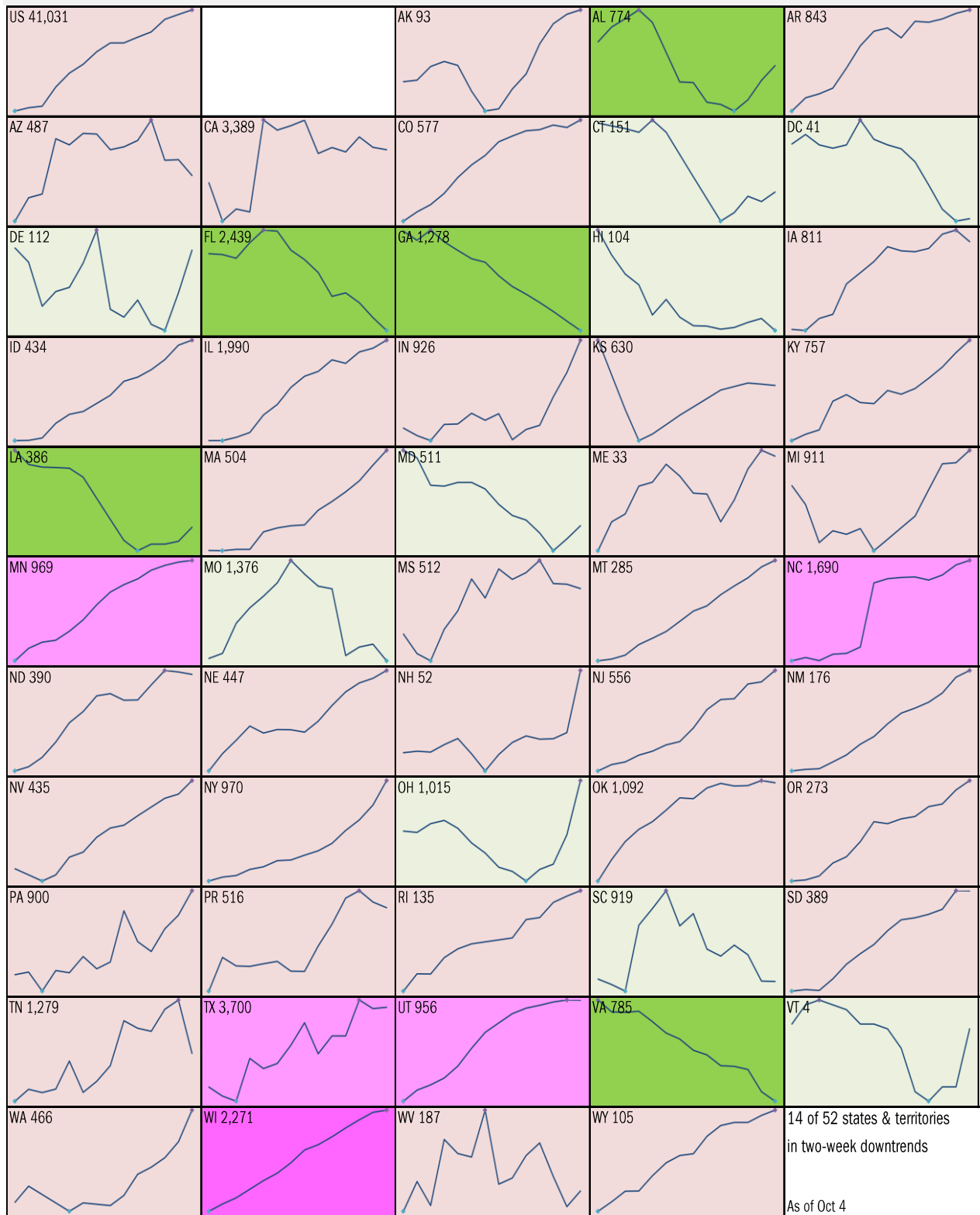
Vertical: days to double deaths Horizontal: days from first death

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



Source: [ECDC](https://ecdc.europa.eu/en), 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

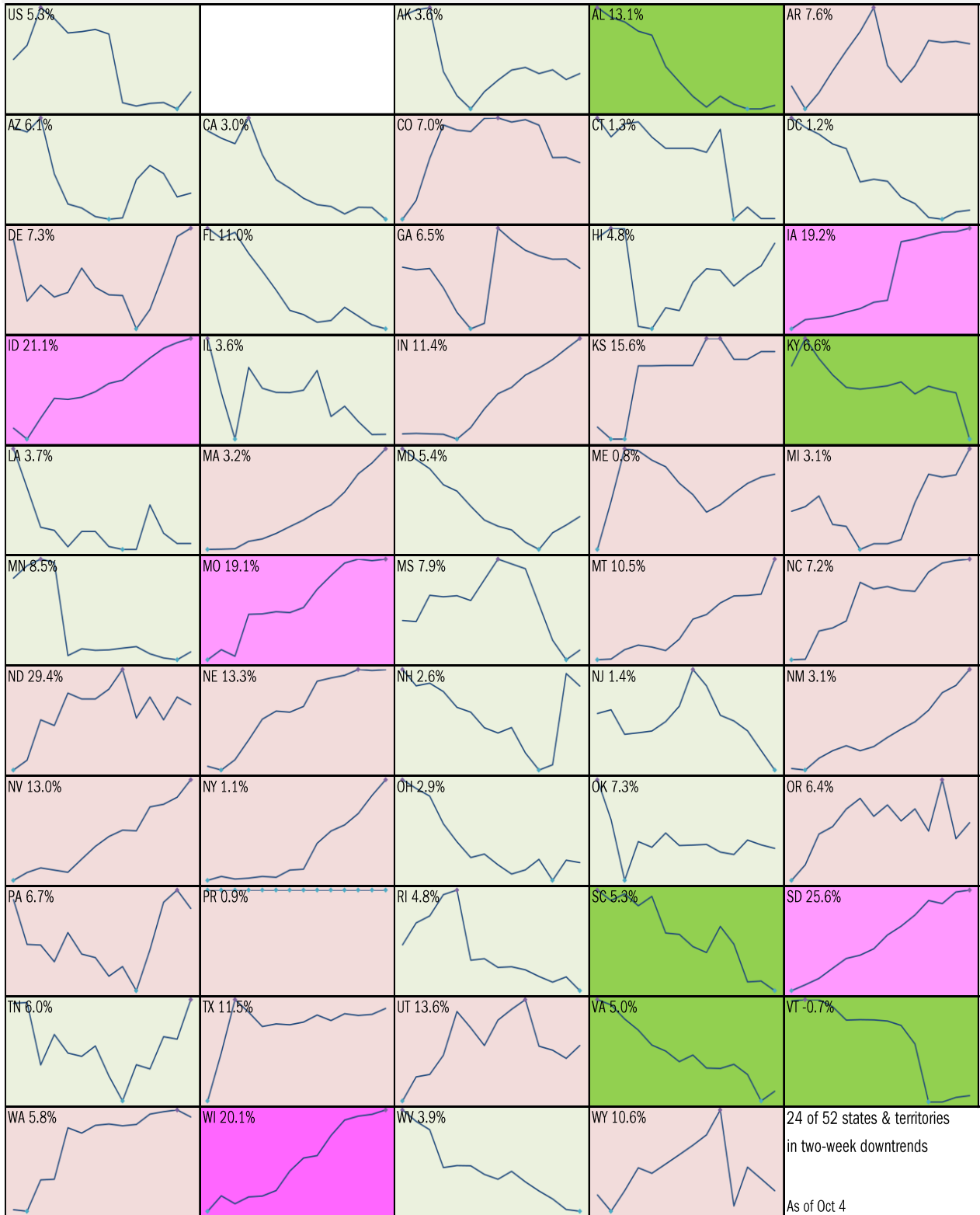


Source: [Covid Tracking Project](#), TrendMacro calculations

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



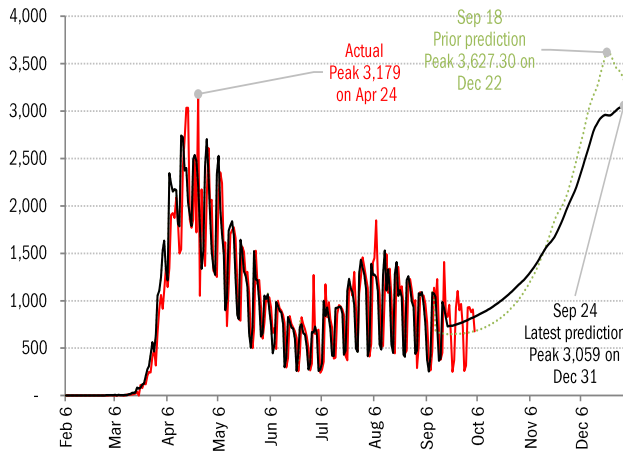
Source: [Covid Tracking Project](#), TrendMacro calculations

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

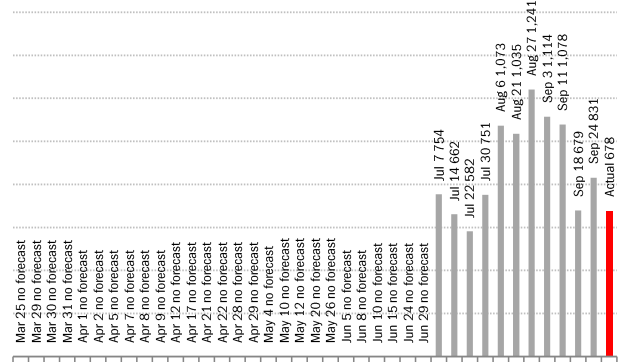
New daily fatalities

As of Oct 4

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

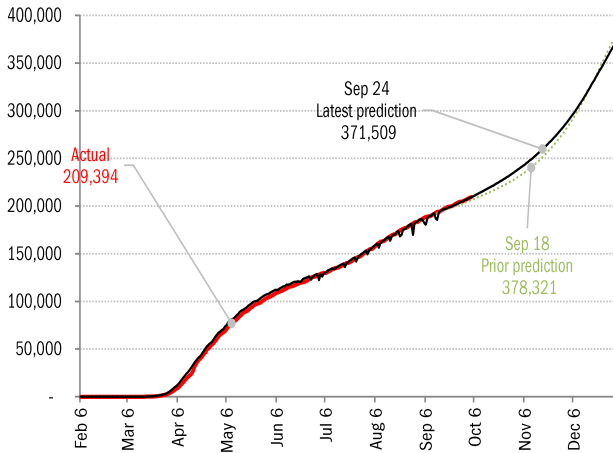


For this day, versus all model mean predictions

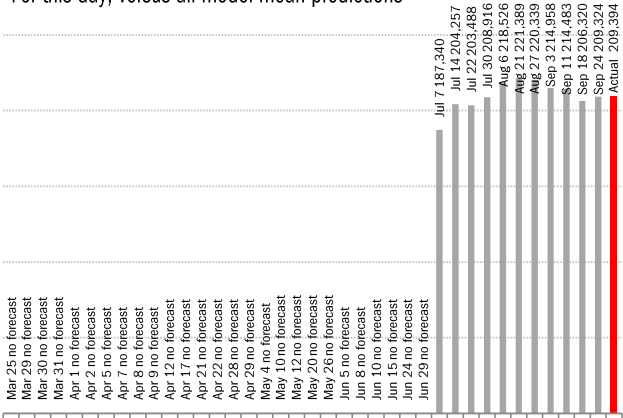


Cumulative fatalities

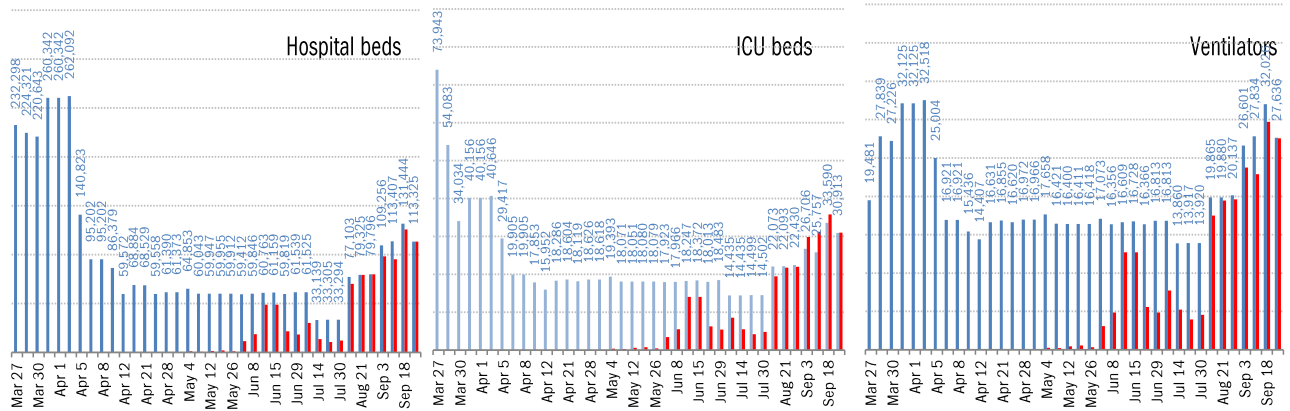
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

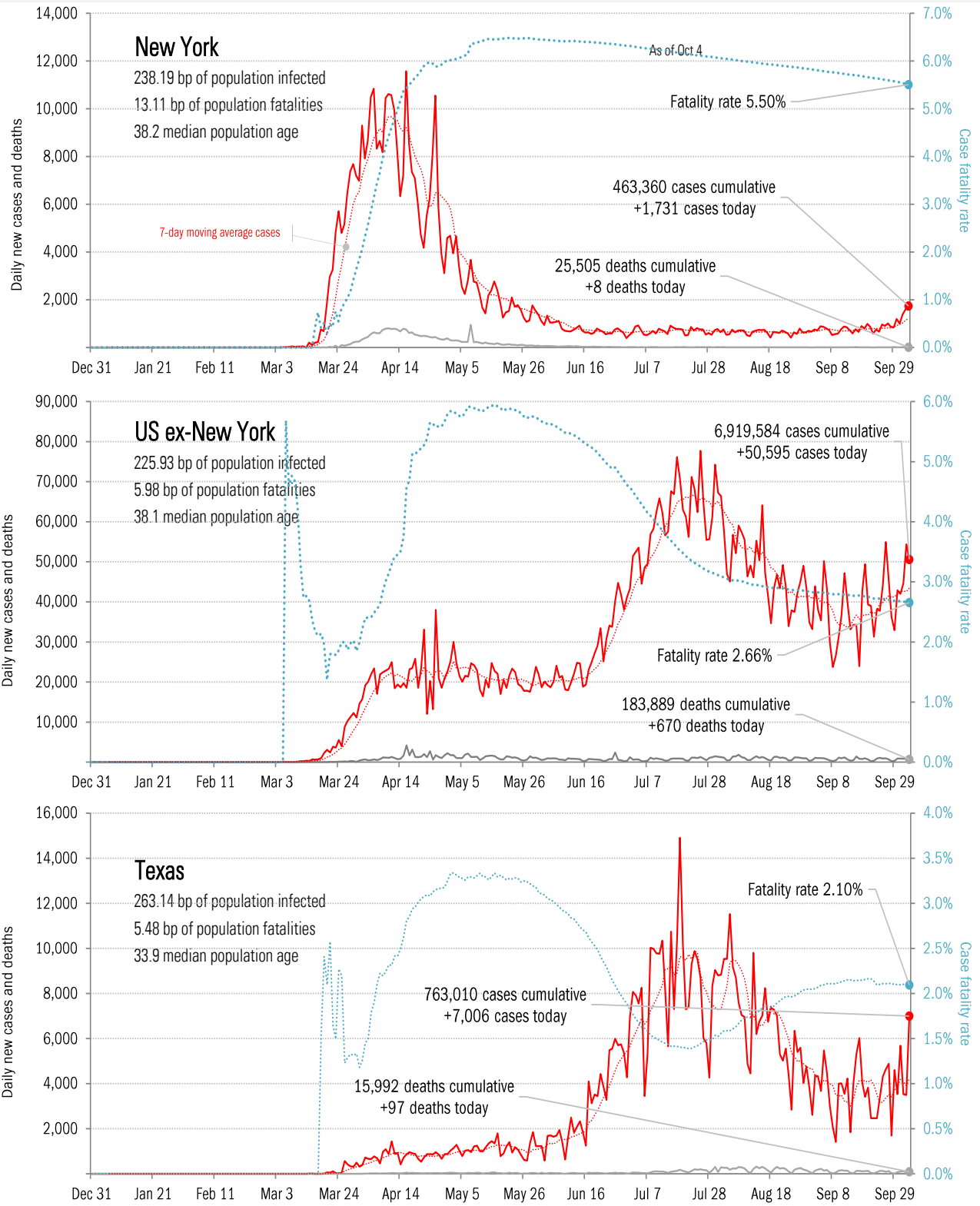


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



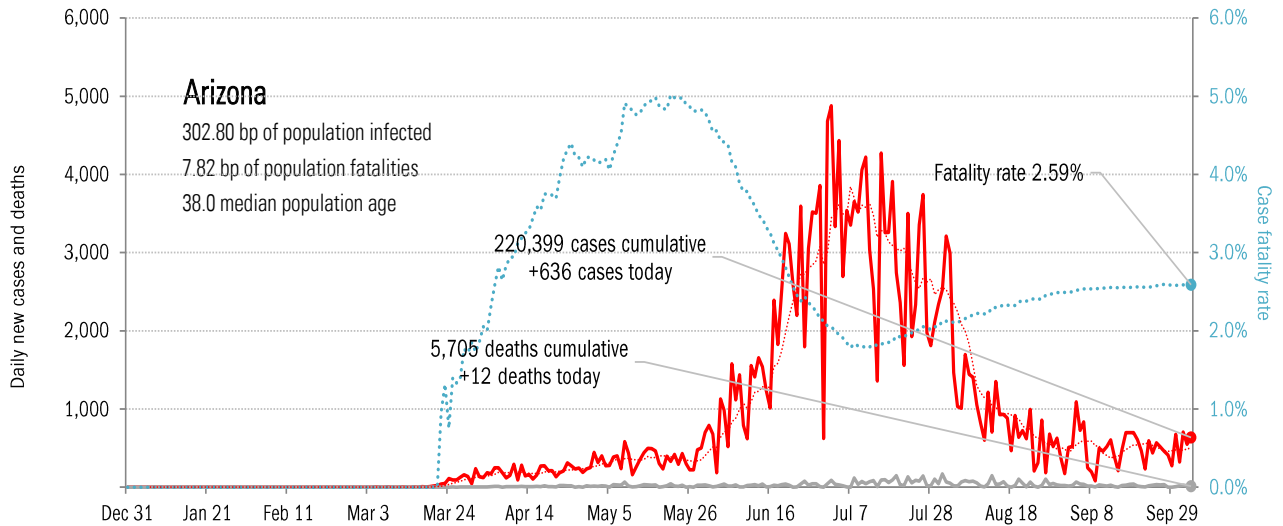
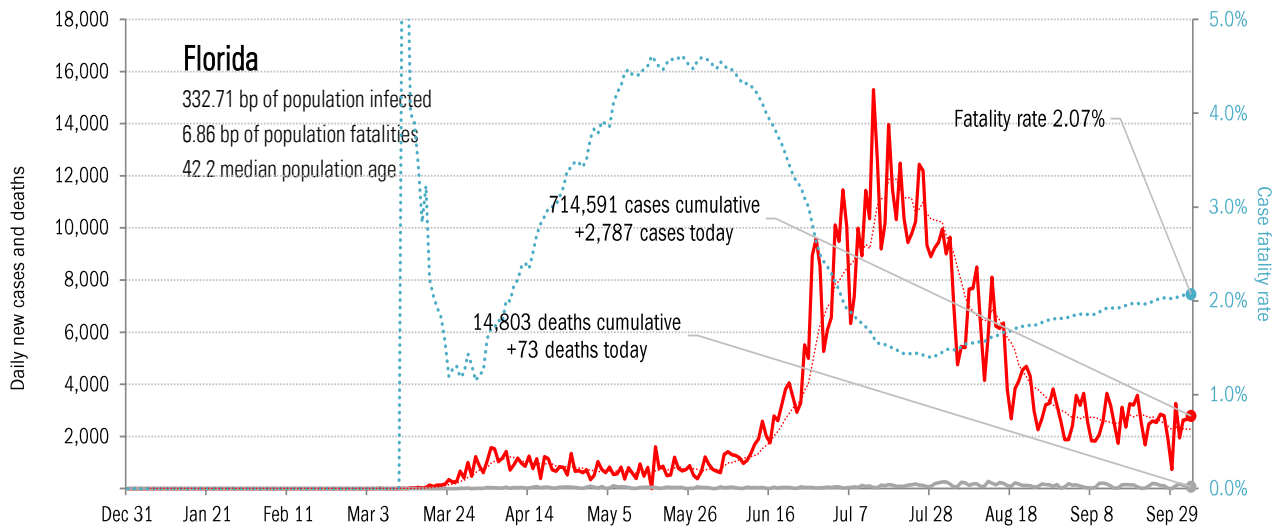
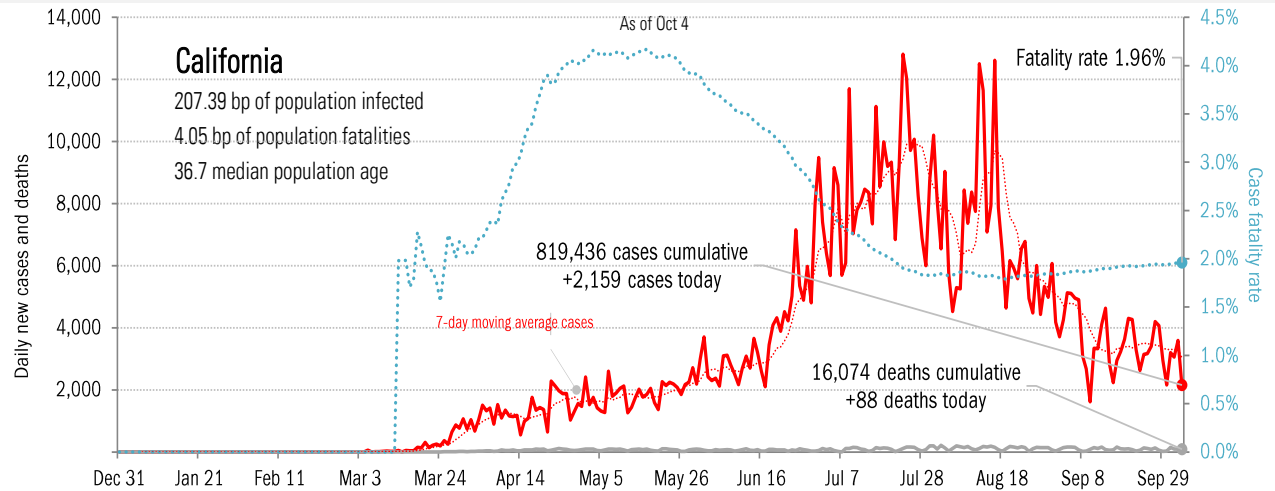
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



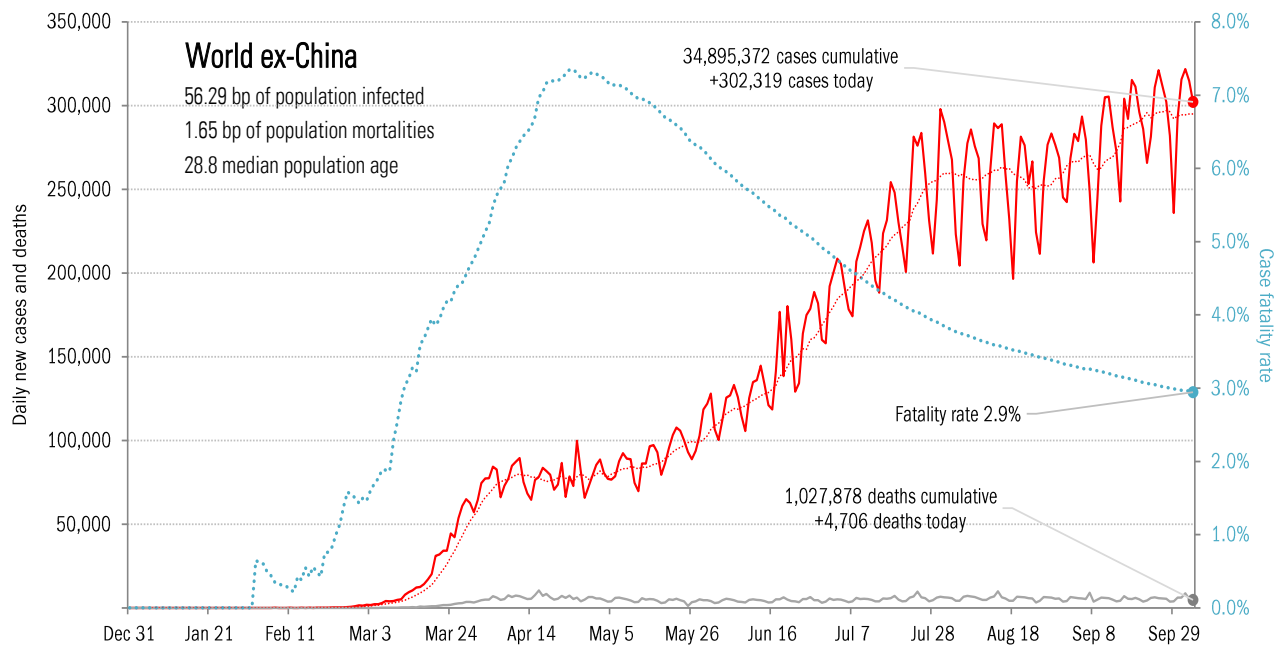
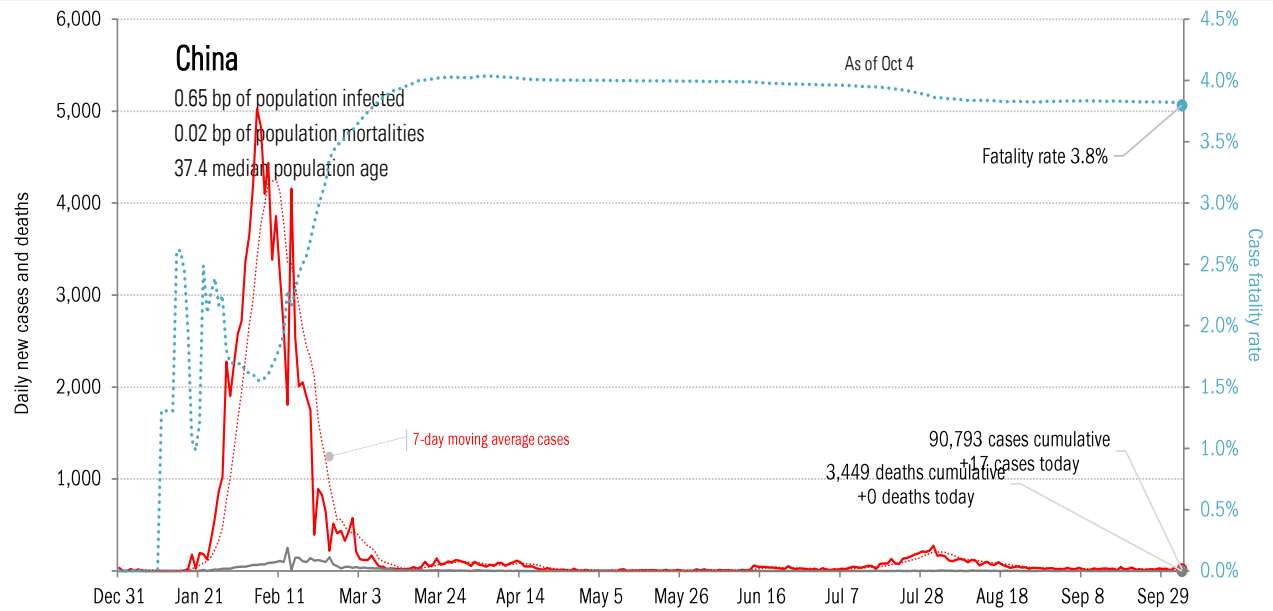
Source: [ECDC](#), TrendMacro calculations

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



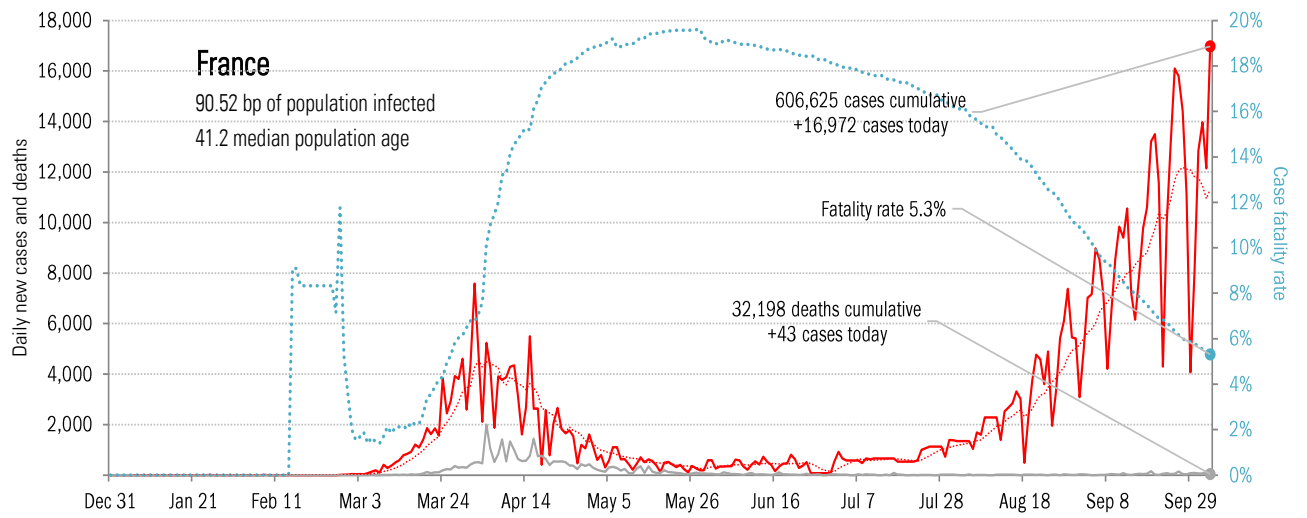
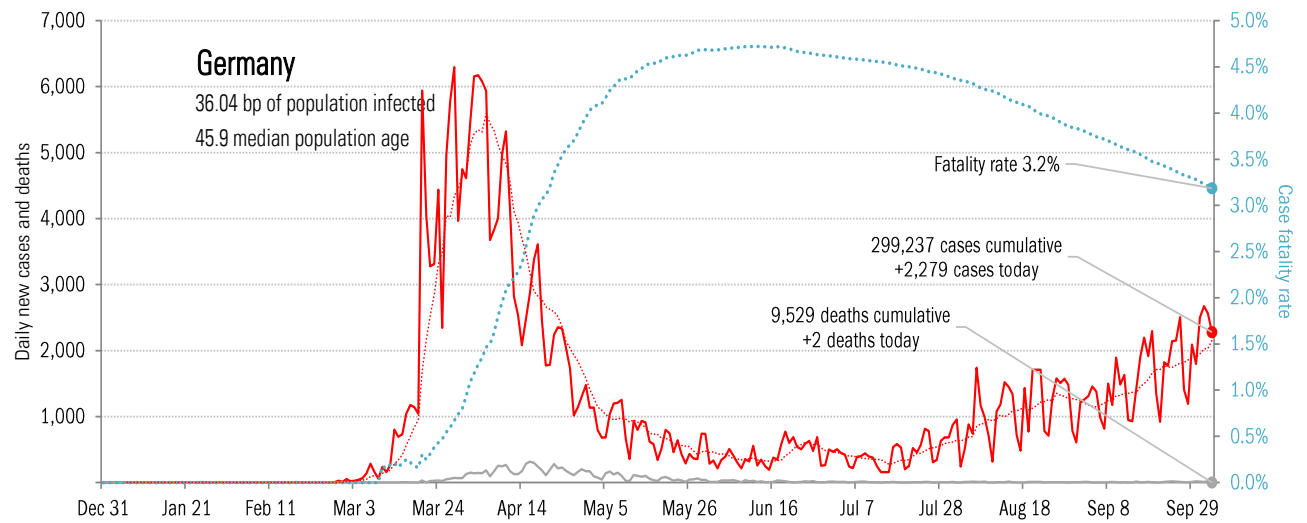
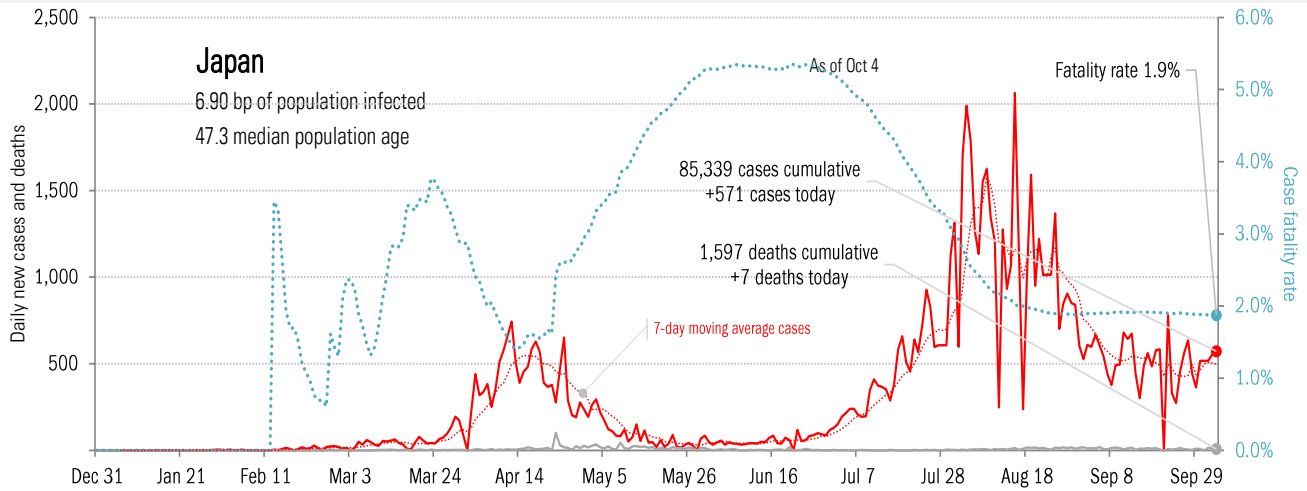
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



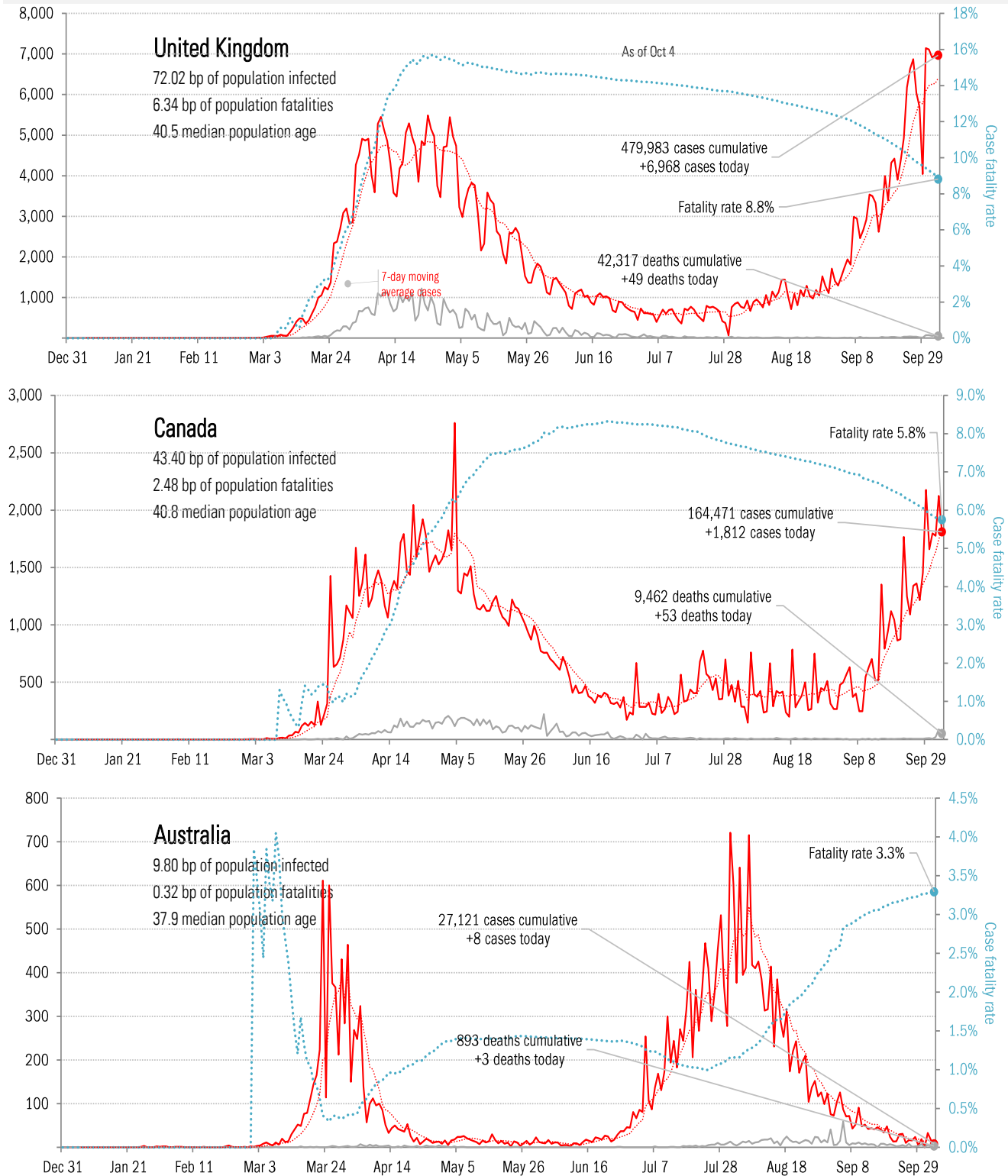
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



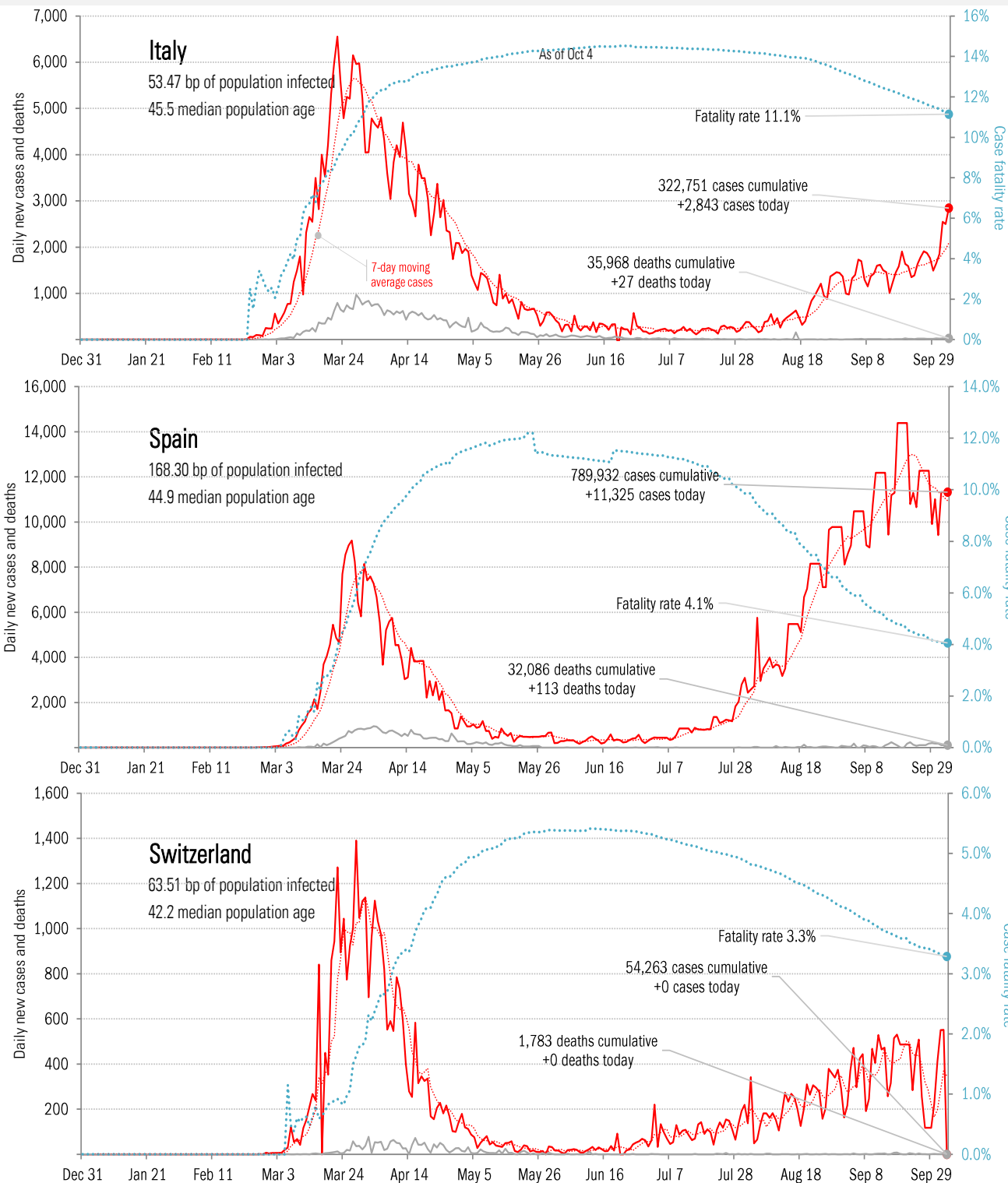
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



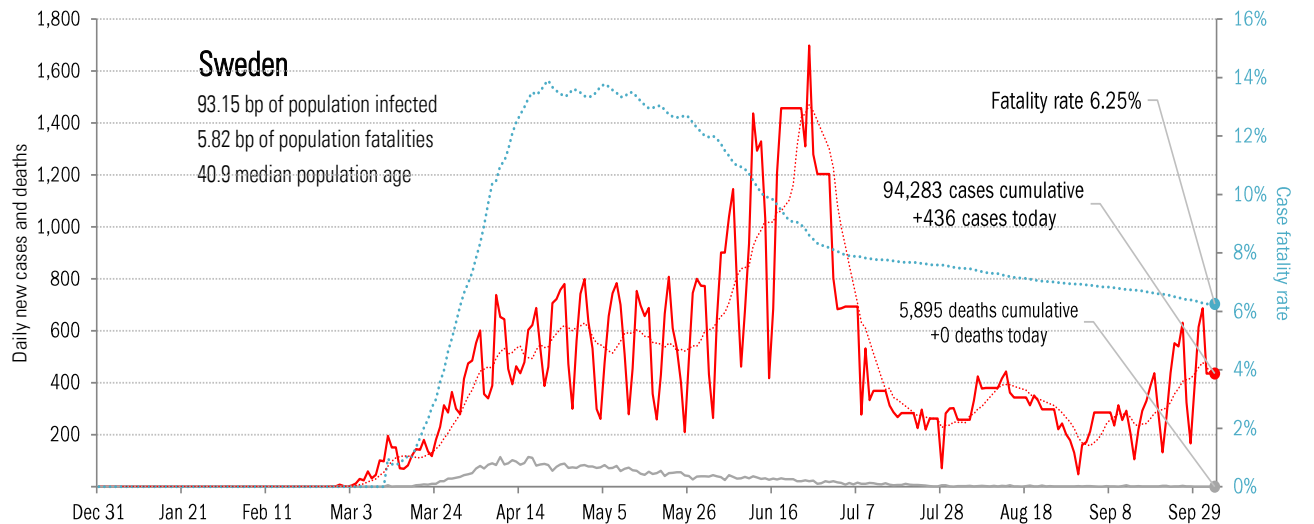
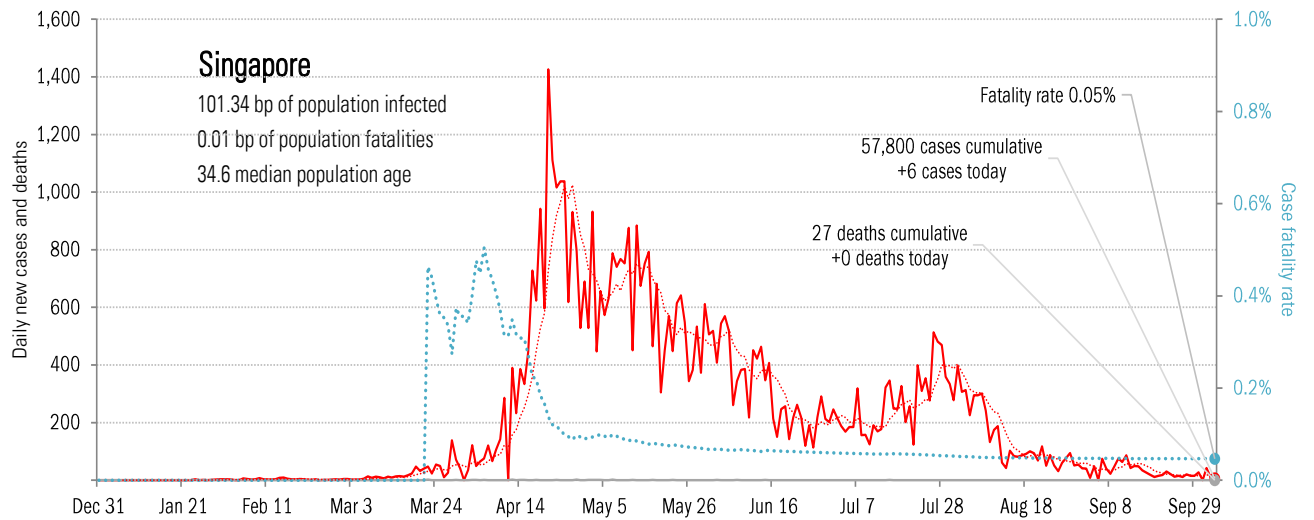
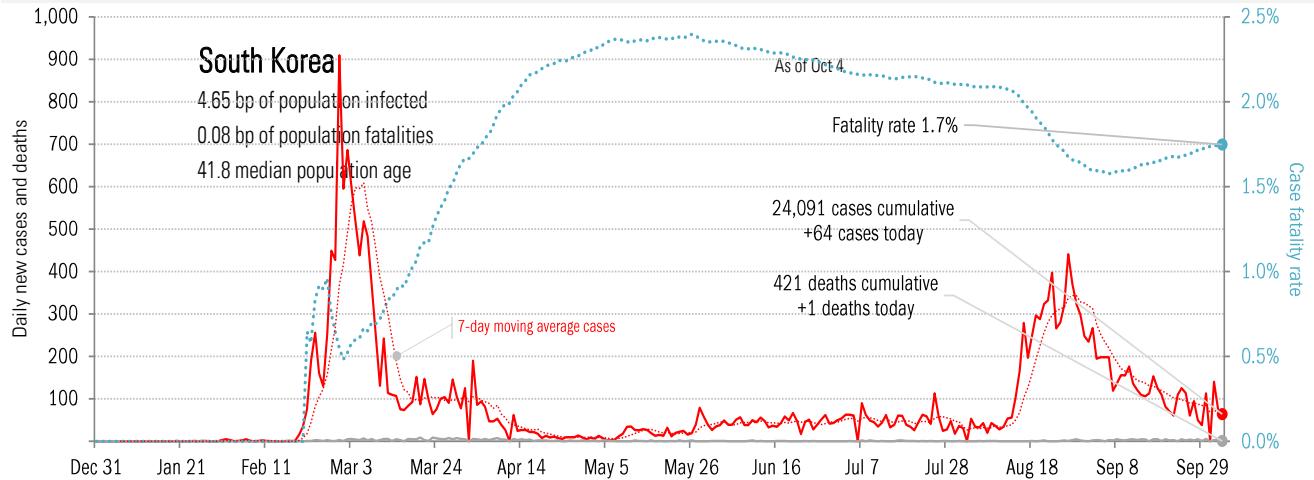
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



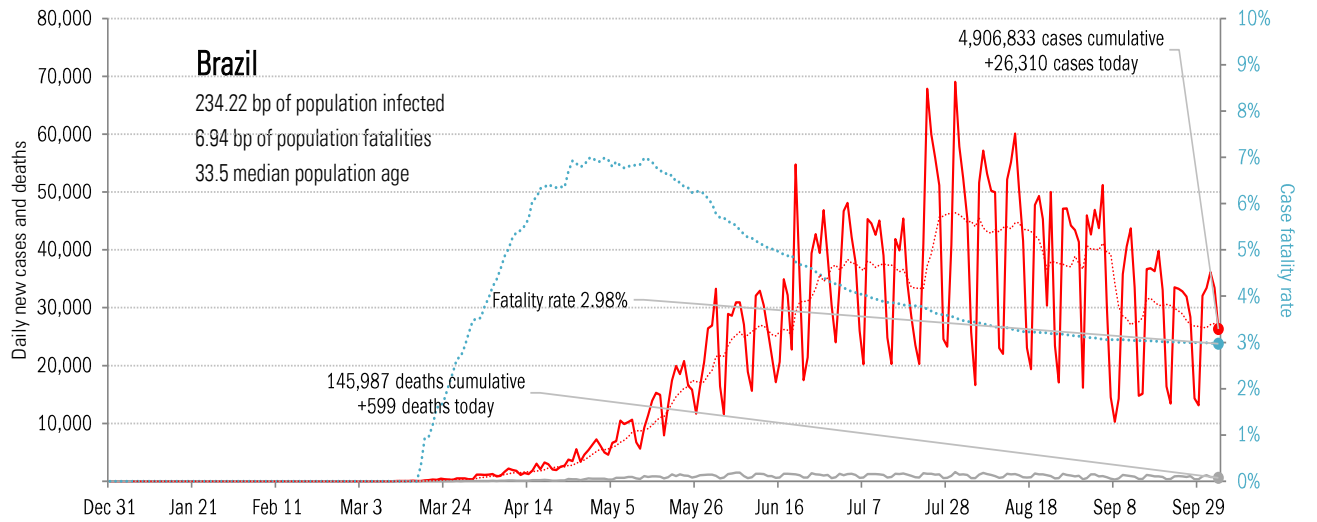
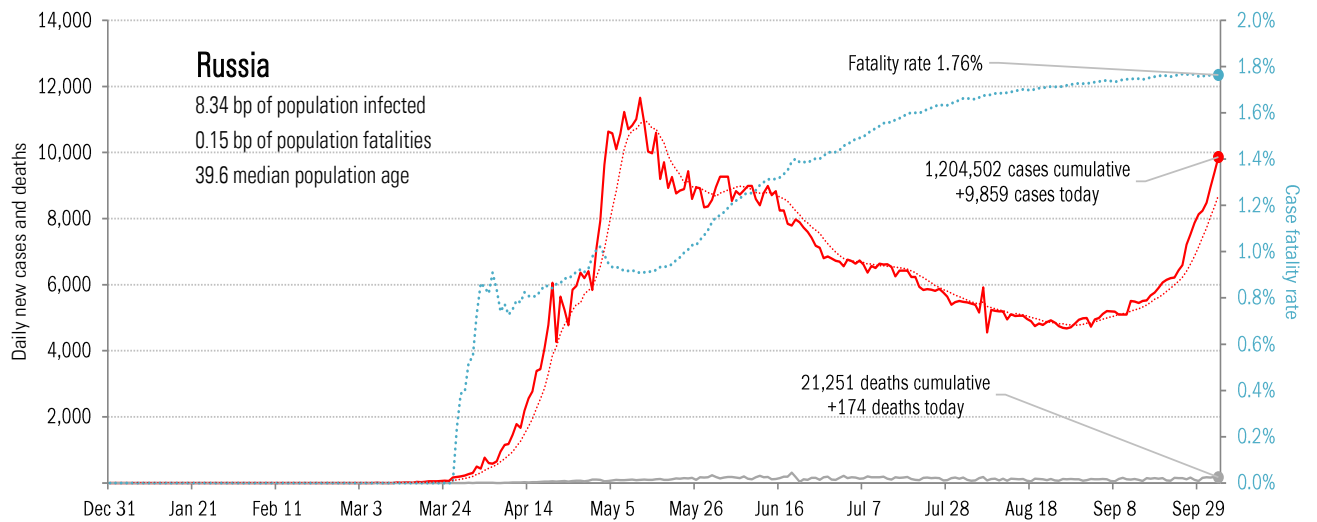
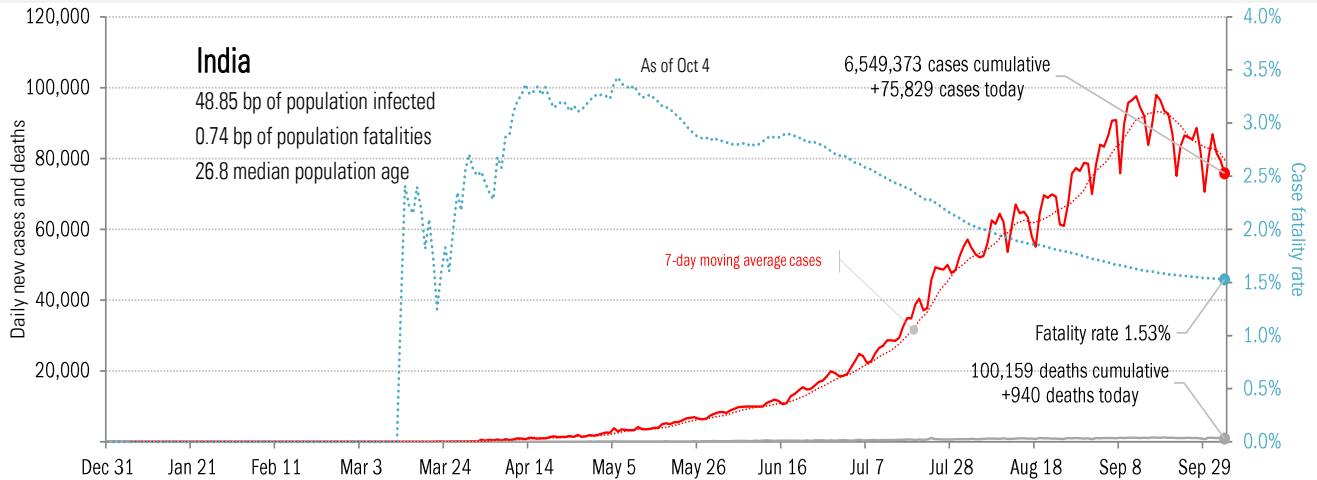
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



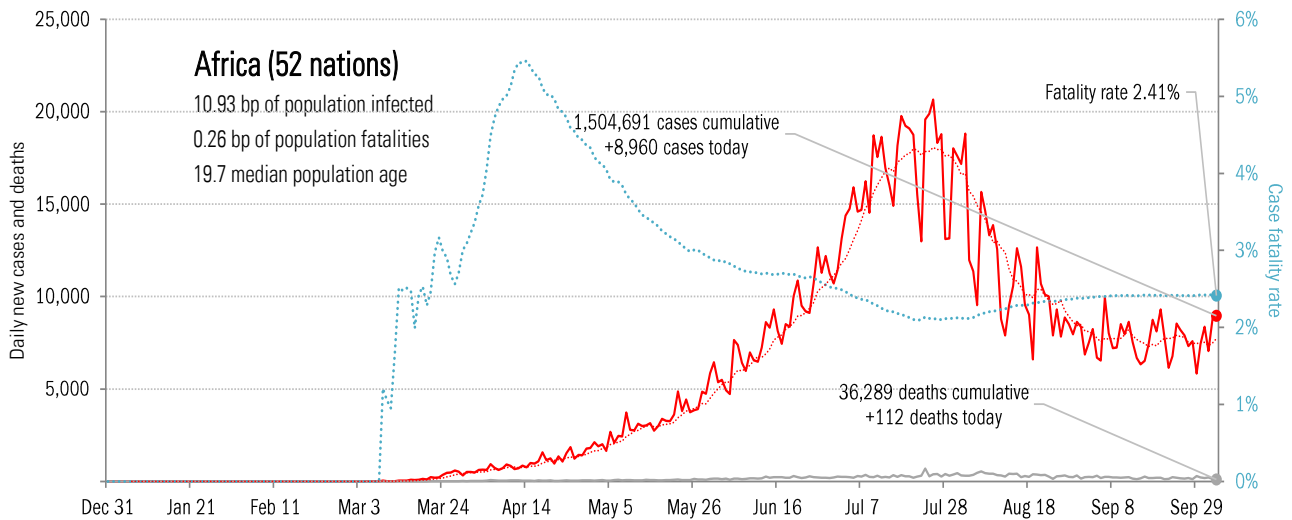
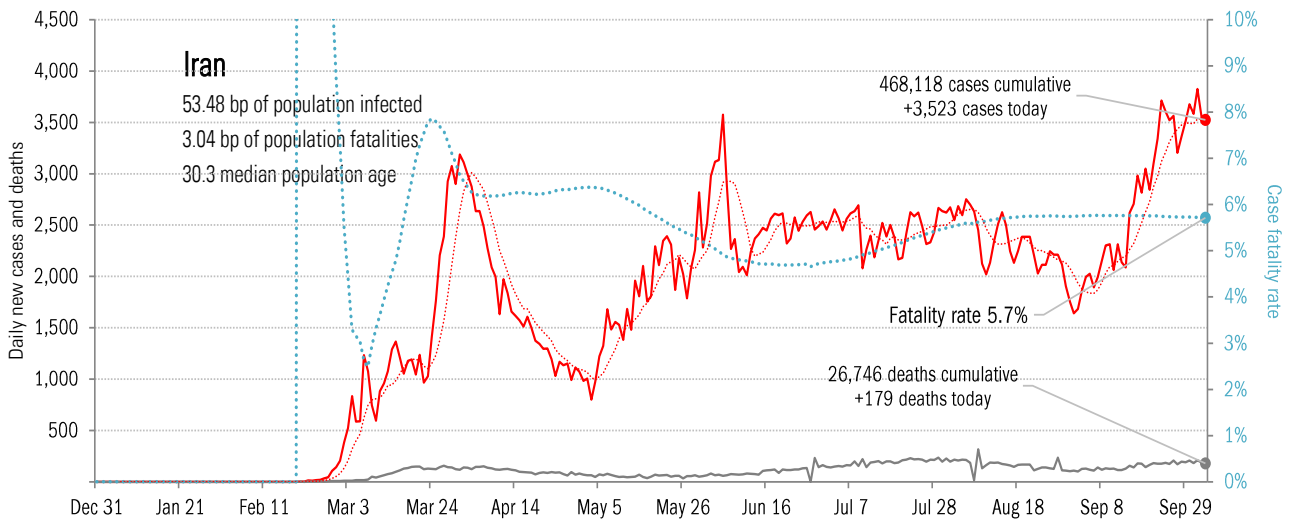
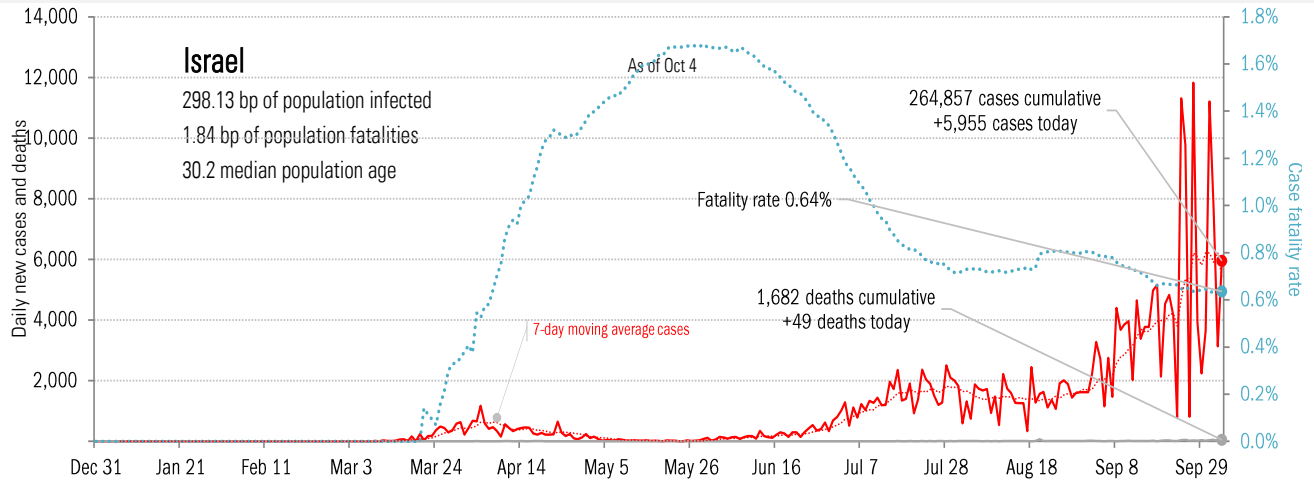
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations