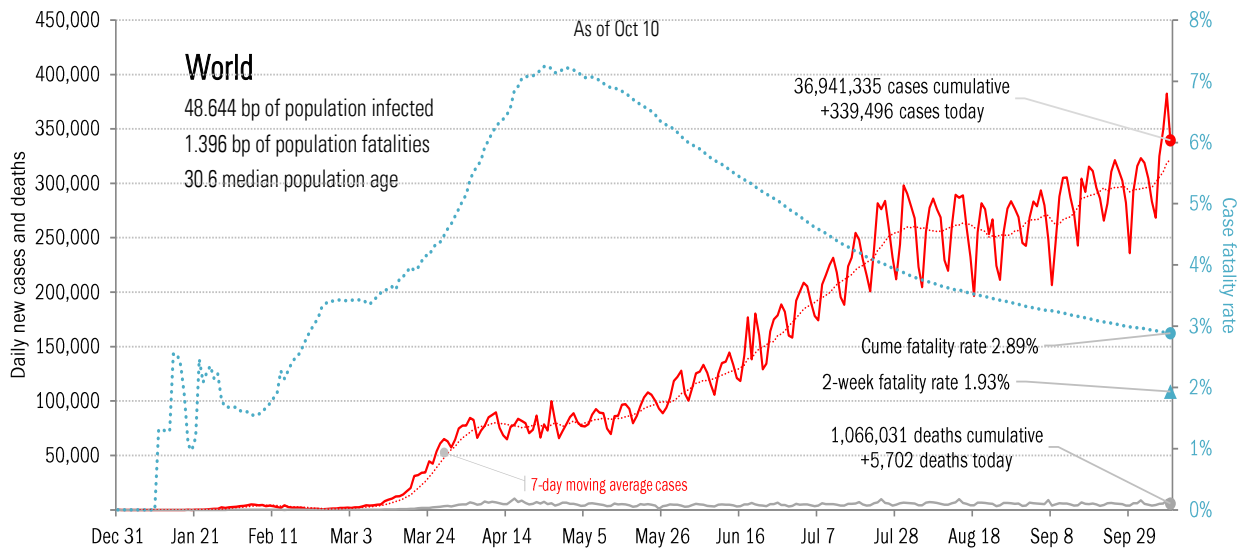
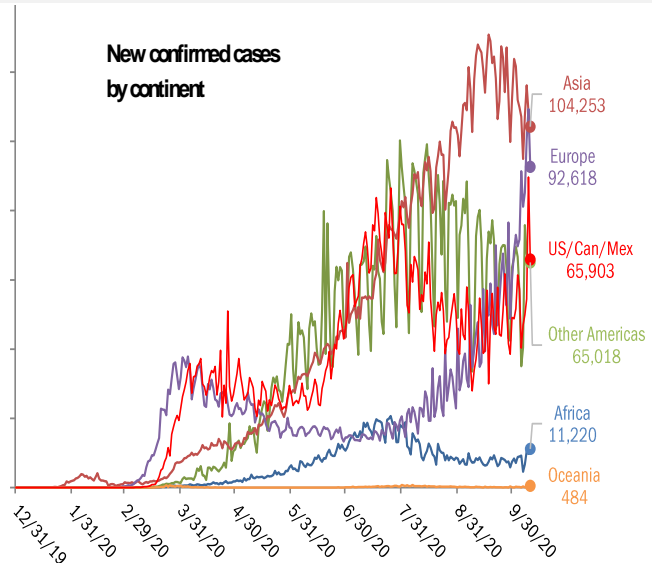


Data Insights: Covid-2019 Monitor

Saturday, October 10, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+73,272	US	+1,014
US	+58,082	India	+926
Brazil	+27,444	Brazil	+682
France	+20,339	Argentina	+515
Argentina	+15,099	Mexico	+411
UK	+13,864	Iran	+210
Spain	+12,788	Russia	+201
Russia	+12,126	Colombia	+164
Czechia	+8,617	South_Africa	+139
Colombia	+8,121	France	+109
+249,752		+4,371	
World	+339,496	World	+5,702
Top ten	74%	Top ten	77%



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

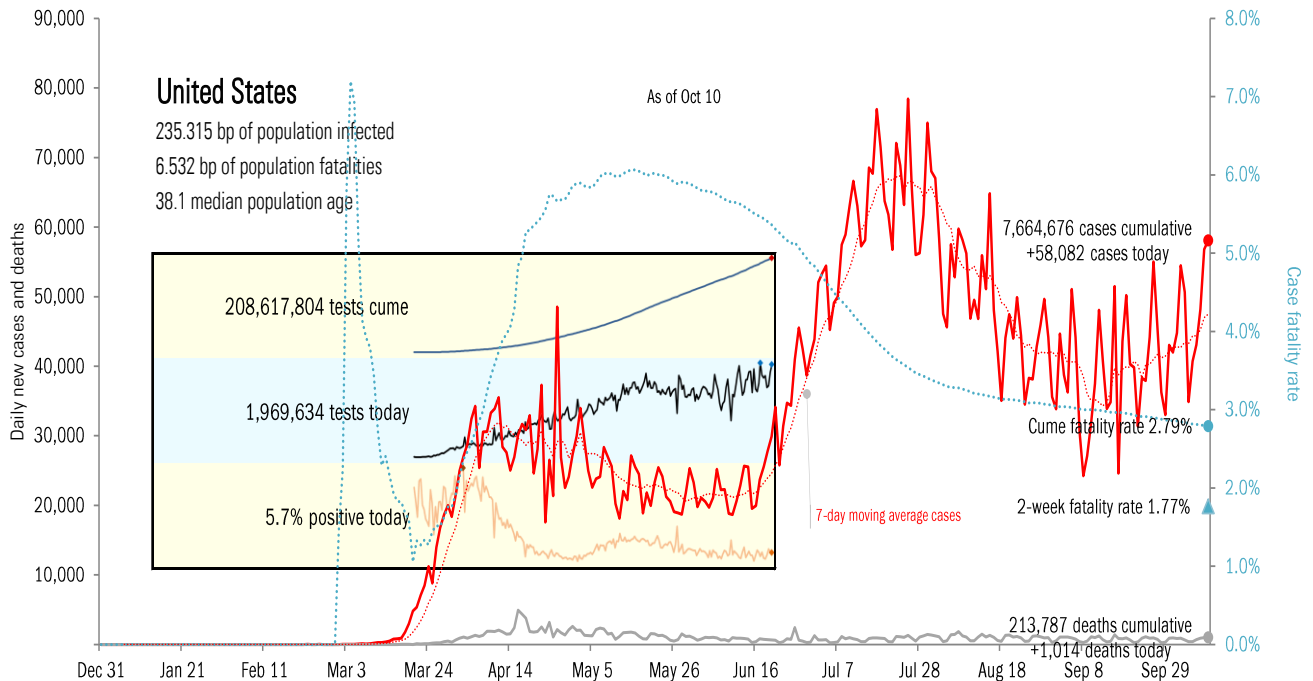
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
TX	+4,036	MO	+136	IN	+77	CA	838,606	NY	25,561	TX	3,593
CA	+3,806	FL	+118	KS	+76	TX	785,830	TX	16,432	CA	3,186
WI	+3,164	TX	+98	AL	+62	FL	728,921	CA	16,428	FL	2,143
IL	+3,117	CA	+67	IL	+57	NY	471,696	NJ	16,164	IL	1,812
FL	+2,908	GA	+54	OK	+52	GA	329,032	FL	15,372	GA	1,717
NC	+2,034	KS	+40	PA	+47	IL	316,556	MA	9,577	MO	1,303
MO	+2,008	IL	+32	FR	+39	NC	227,431	IL	9,191	IN	1,187
KS	+1,855	TN	+27	TN	+37	AZ	224,084	PA	8,308	TN	1,186
CH	+1,840	LA	+26	TX	+37	NJ	212,013	GA	7,348	NC	1,065
IN	+1,816	NC	+25	SC	+32	TN	211,003	MI	7,200	VA	963
+26,584		+623		+516		4,345,172		131,581		18,155	
All states	+57,542	All states	+904	All states	+517	All states	7,623,648	All states	205,470	All states	34,839
Top ten	46%	Top ten	69%	Top ten	100%	Top ten	57%	Top ten	64%	Top ten	52%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
AR	-1,265	CA	-66	MO	-1,385	KS	+4
VA	-730	FL	-52	MI	-175	UT	+4
TN	-436	TN	-36	ND	-110	AL	+2
NJ	-433	AR	-21	MN	-76	AK	+0
FL	-398	AL	-20	AZ	-69	AR	+0



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

Recommended reading

[The Captain of Operation Warp Speed](#)

Allysia Finley
Wall Street Journal
October 9, 2020

[Schools Aren't Super-Spreaders](#)

Emily Oster
The Atlantic
October 9, 2020

[As Virus Surges in Europe, Resistance to New Restrictions Also Grows](#)

Marc Santora and Isabella Kwai
Wall Street Journal
October 9, 2020

[Regeneron Asks F.D.A. for Emergency Approval for Drug That Trump Claimed Cured Him](#)

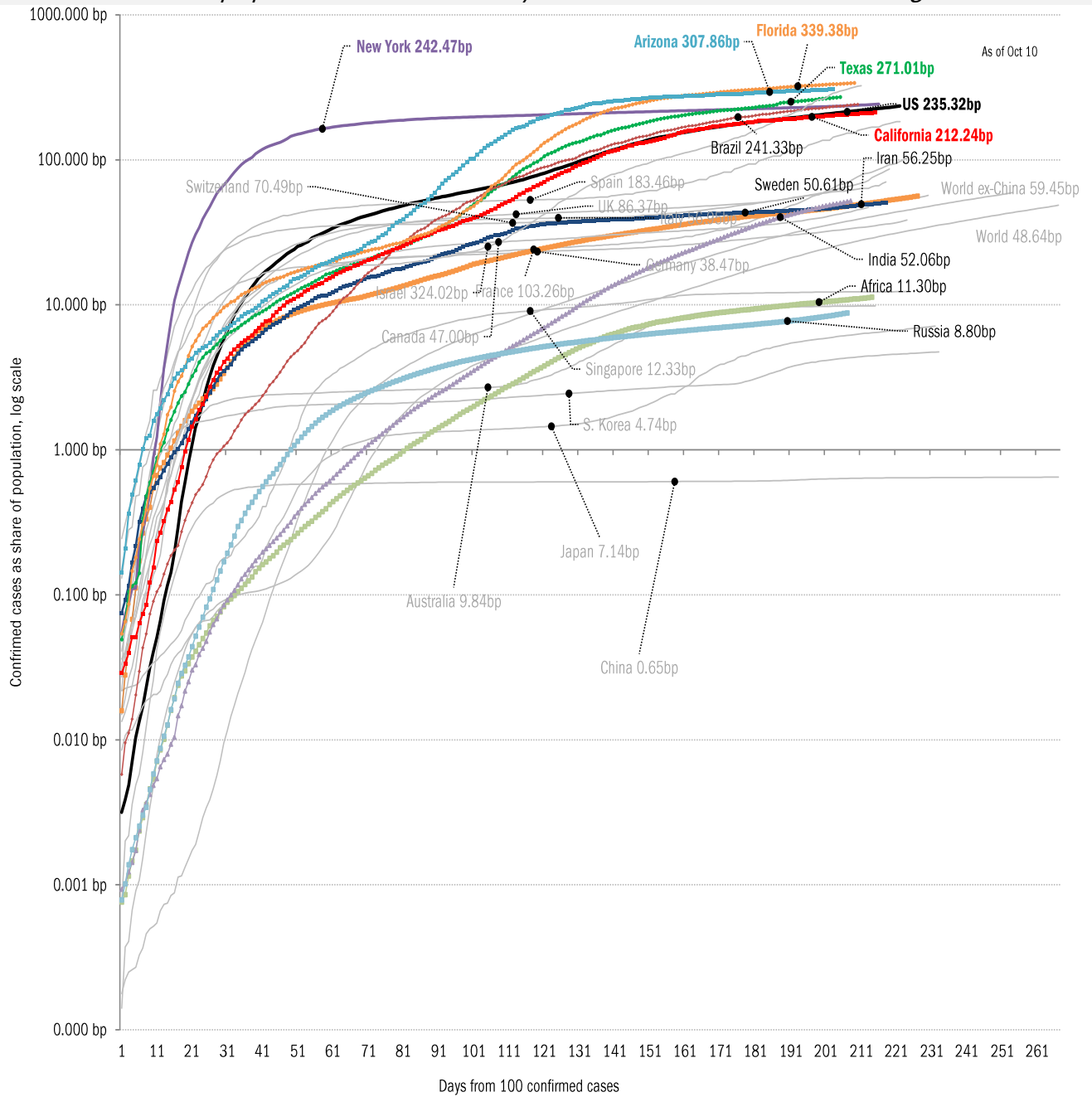
Katie Thomas
New York Times
October 7, 2020

Meme of day



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

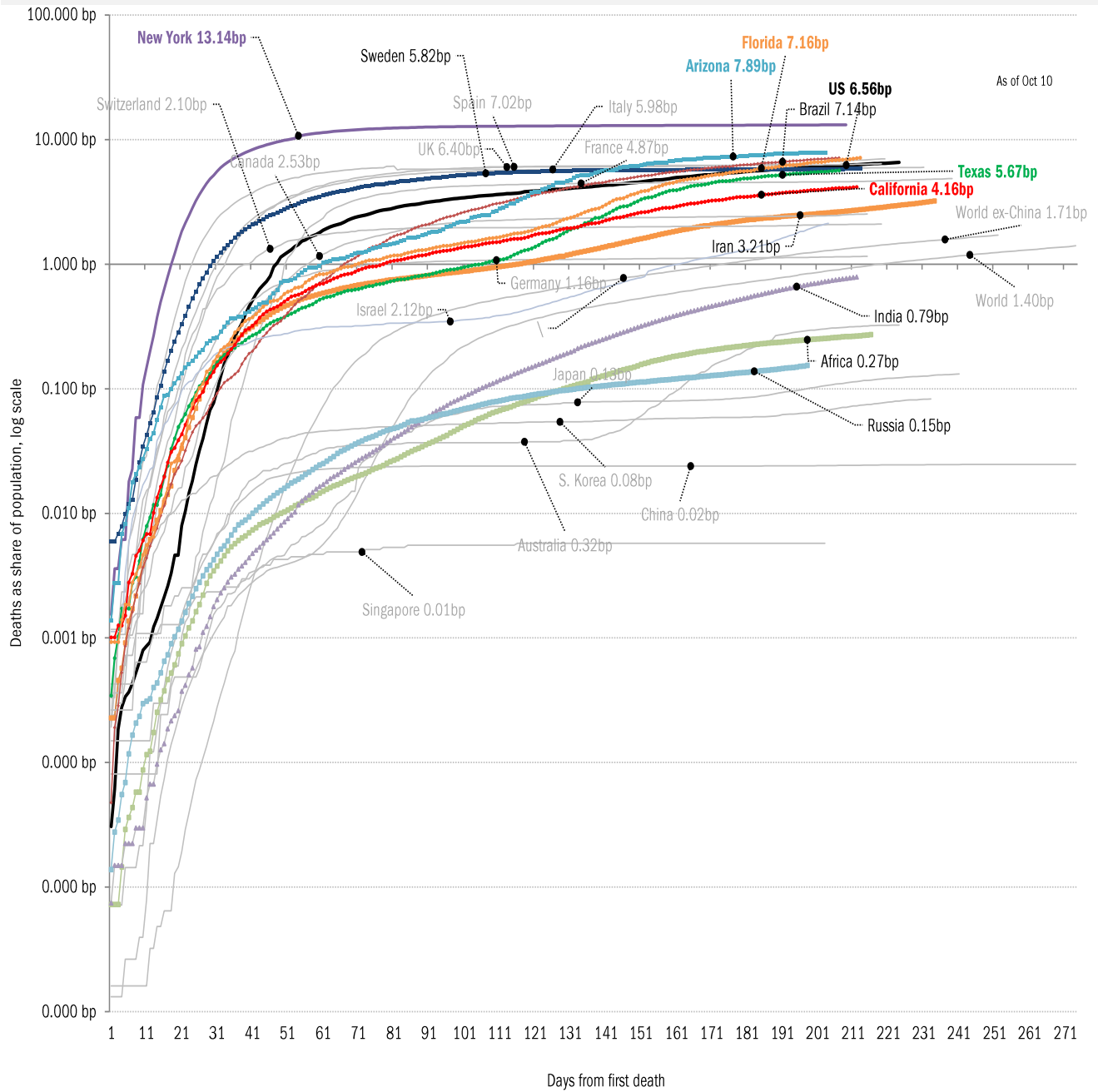
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

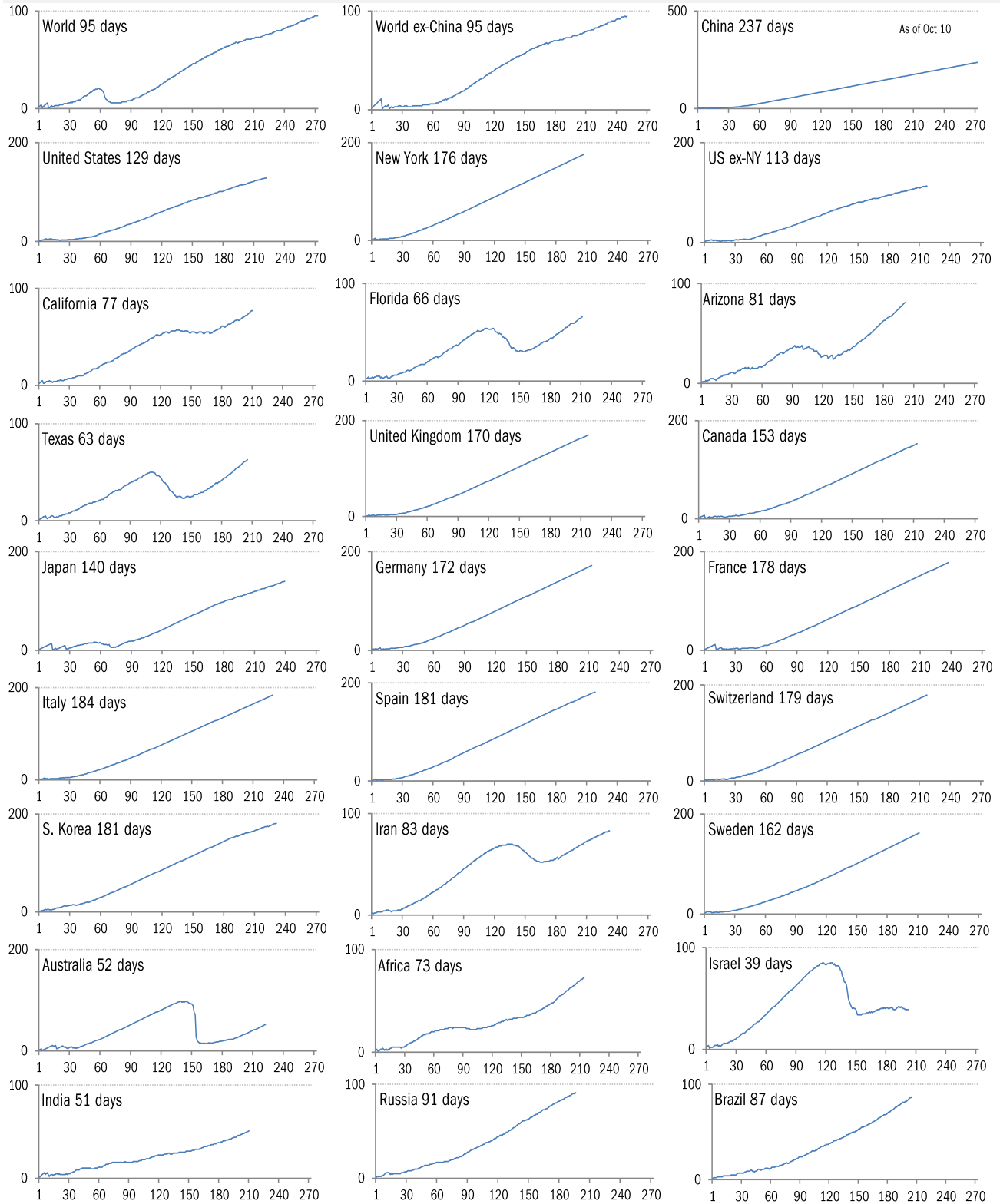


Source: [ECDC](#), TrendMacro calculations

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

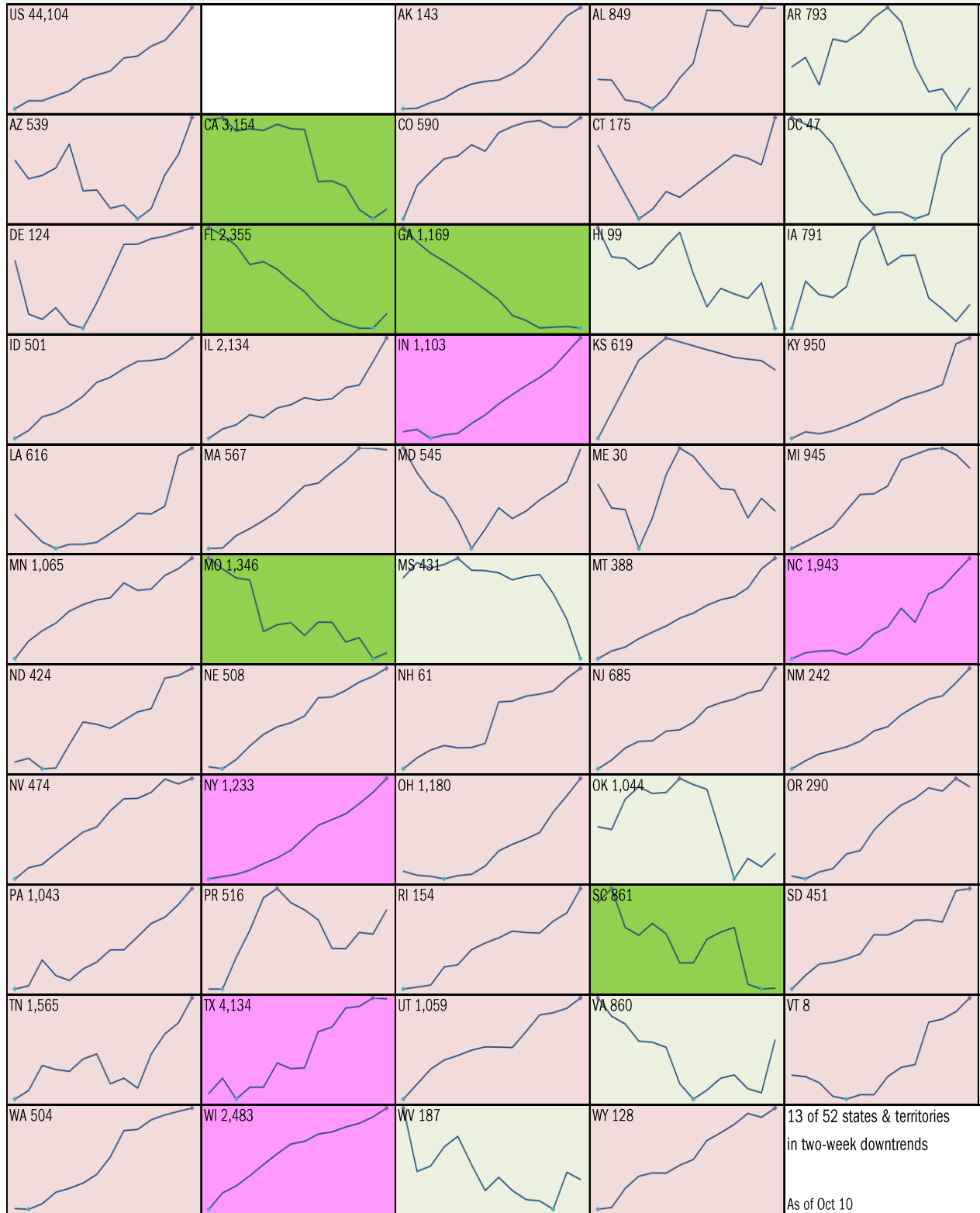


Source: [ECDC](#), TrendMacro calculations

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



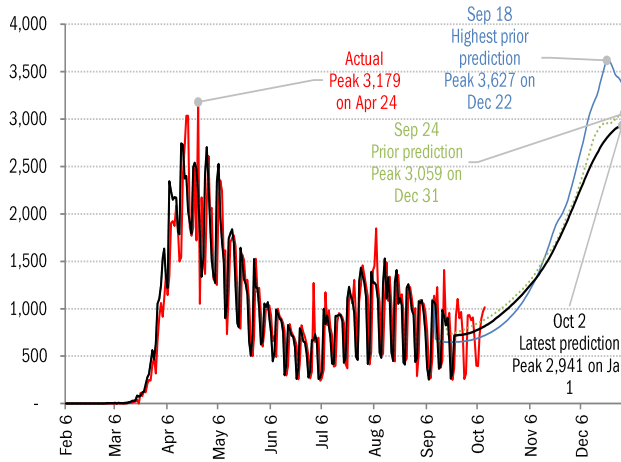
Source: [Covid Tracking Project](#), TrendMacro calculations

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

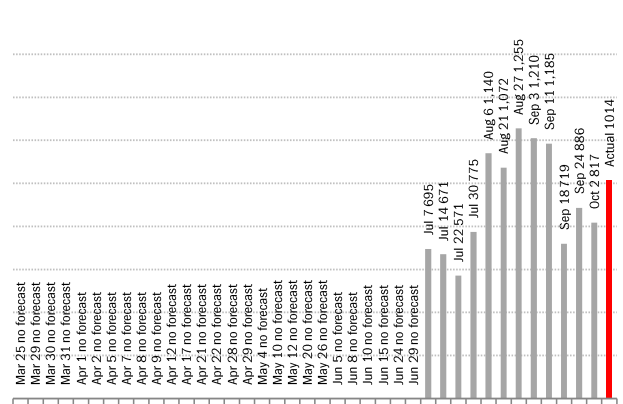
New daily fatalities

As of Oct 10

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

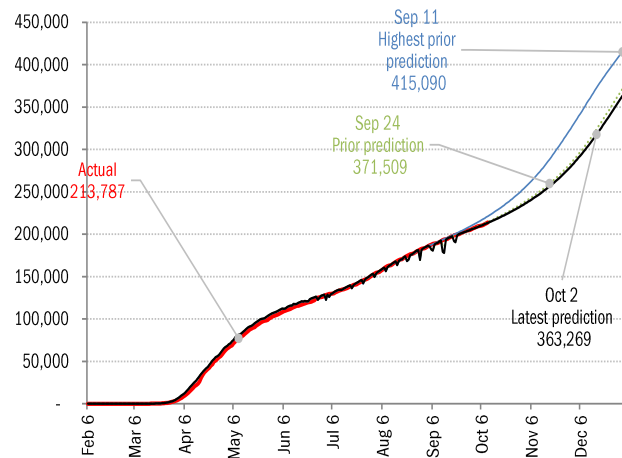


For this day, versus all model mean predictions

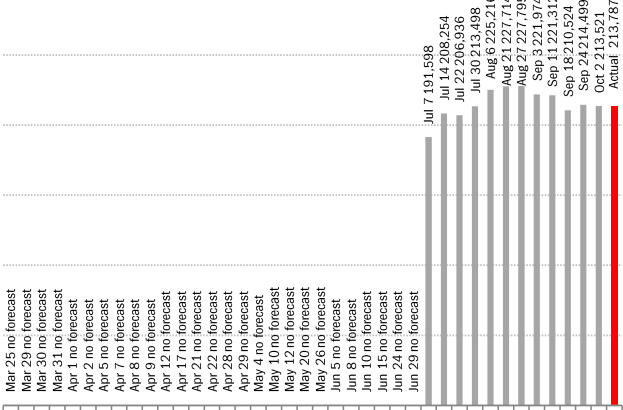


Cumulative fatalities

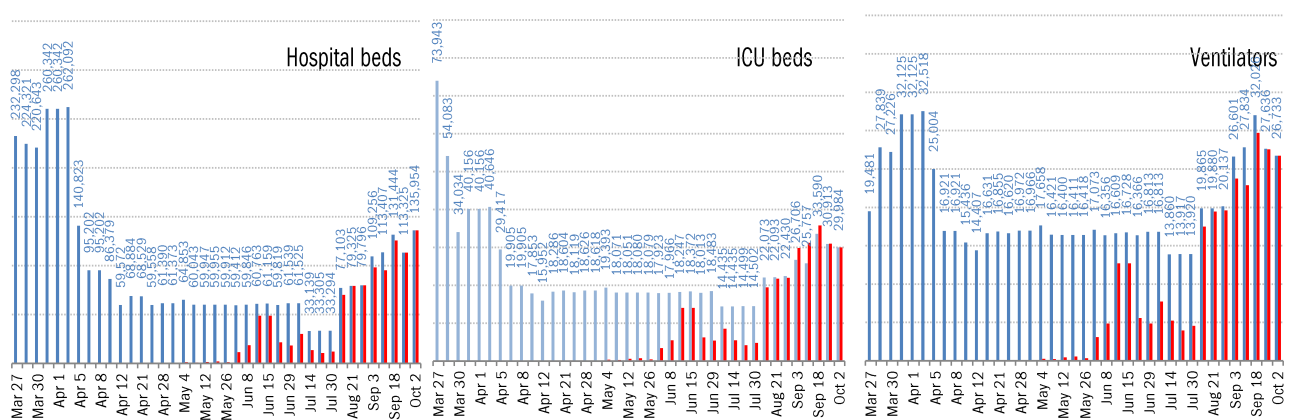
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

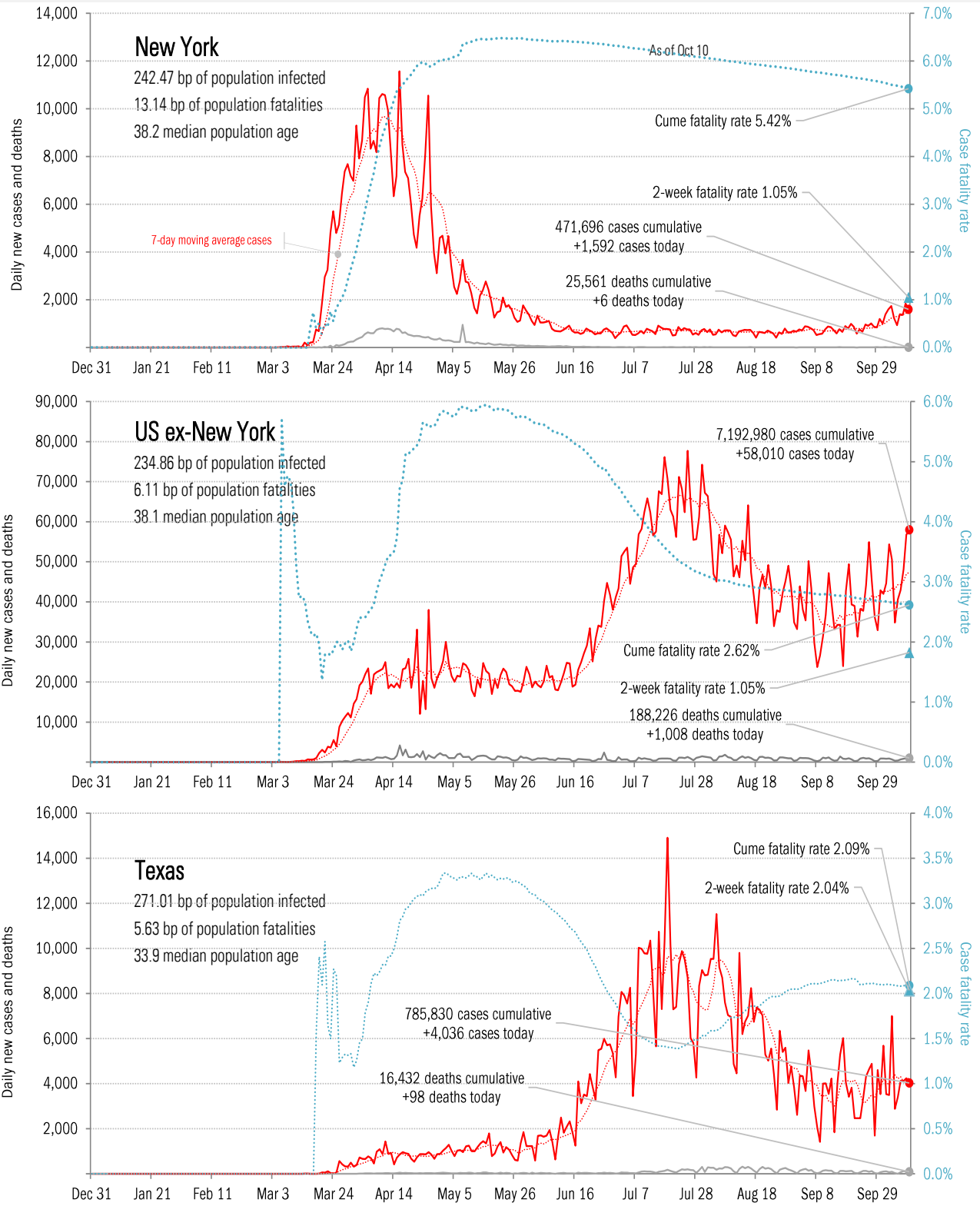


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



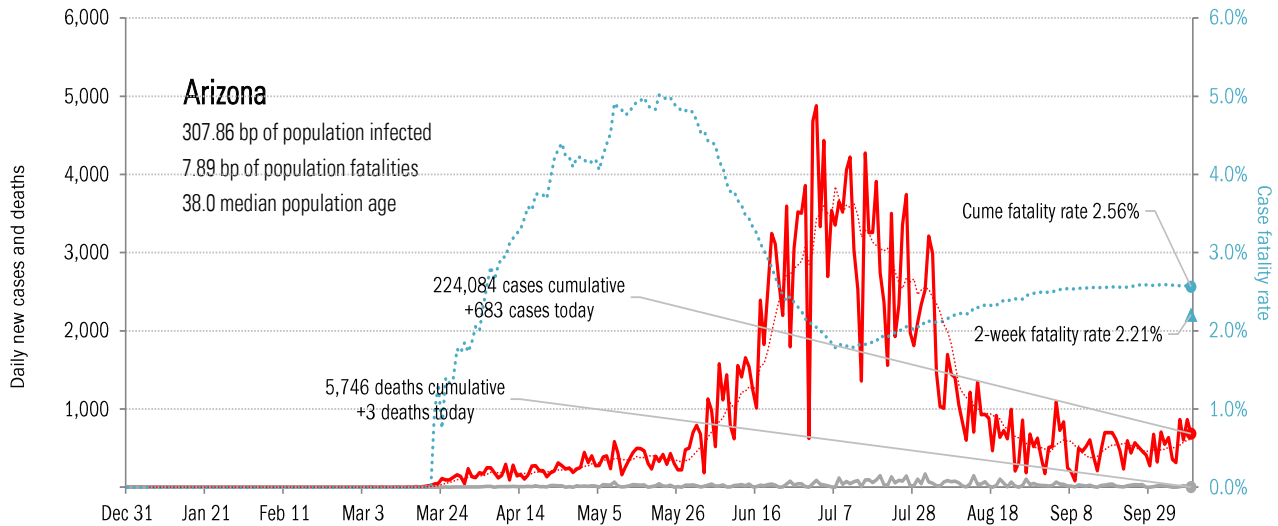
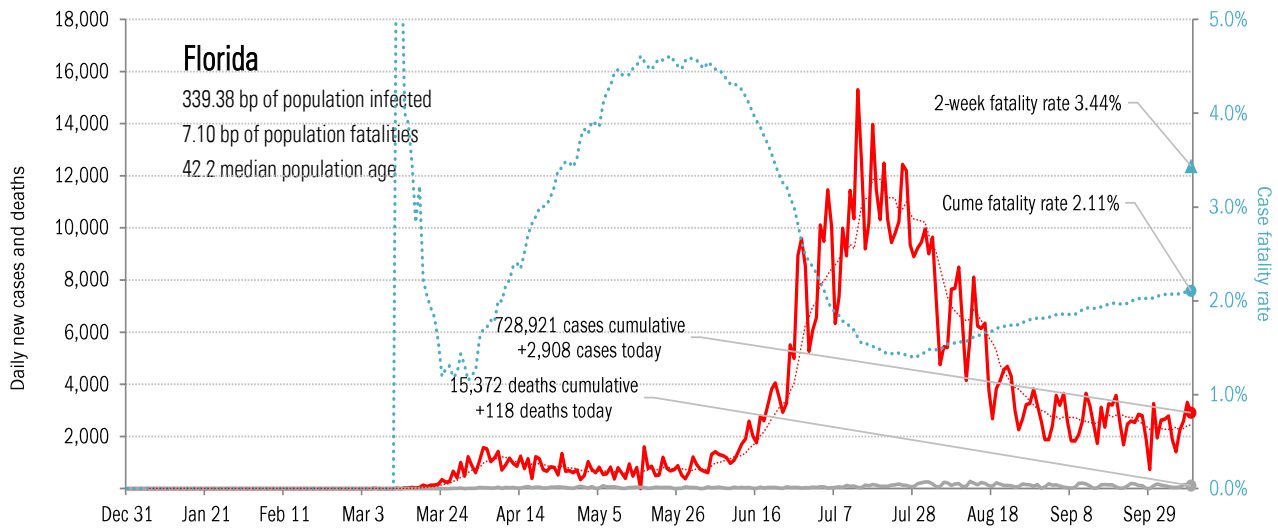
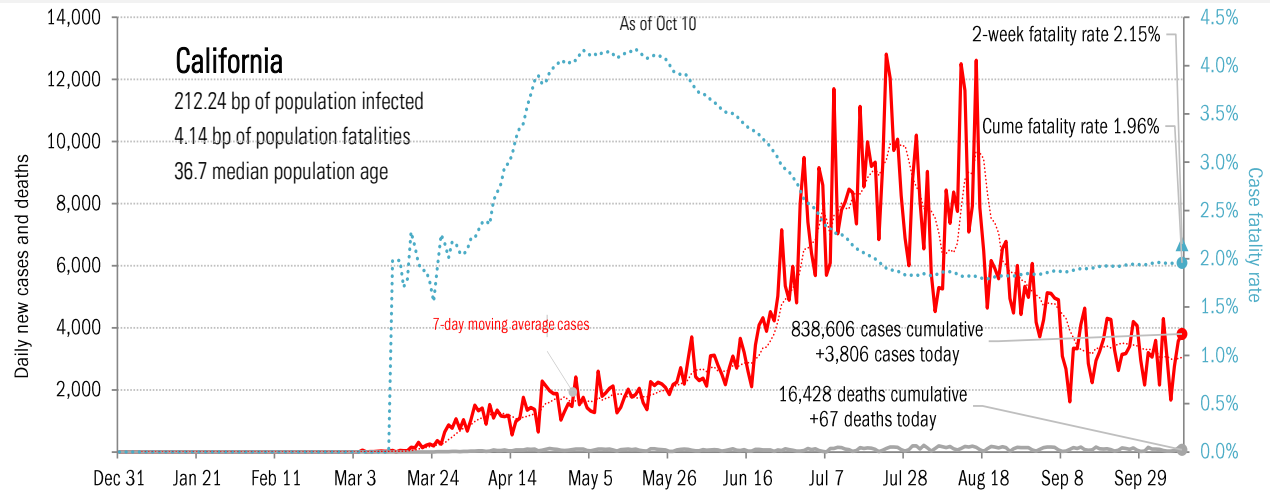
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



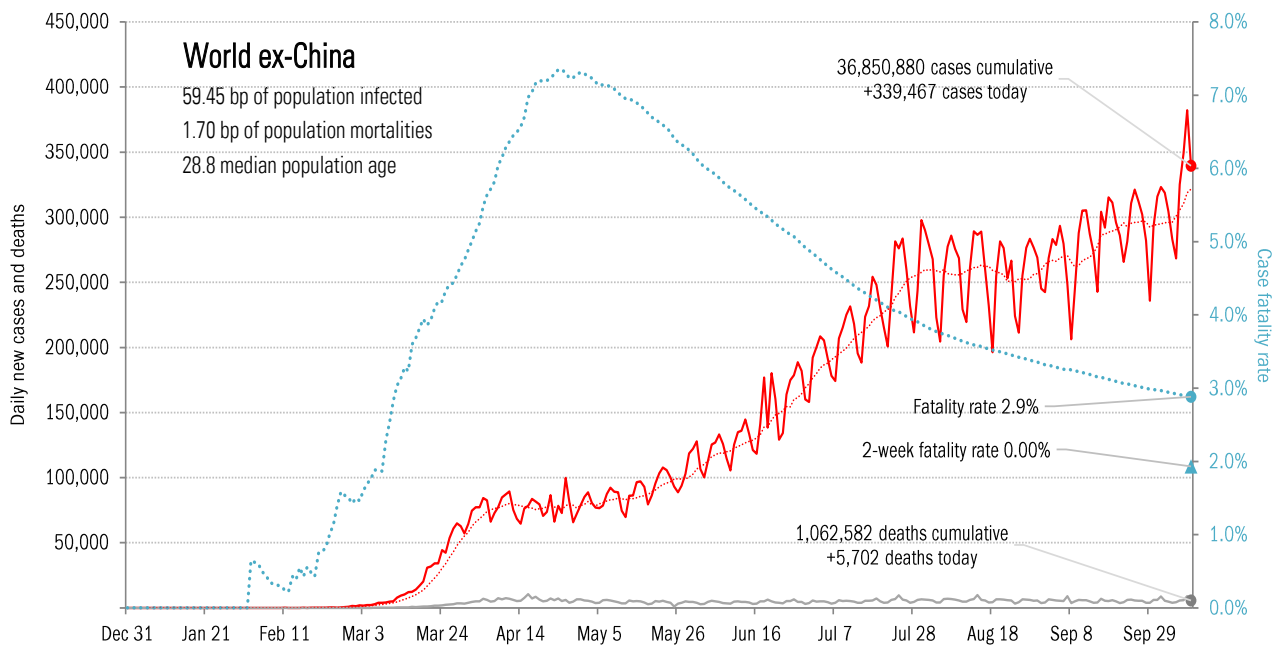
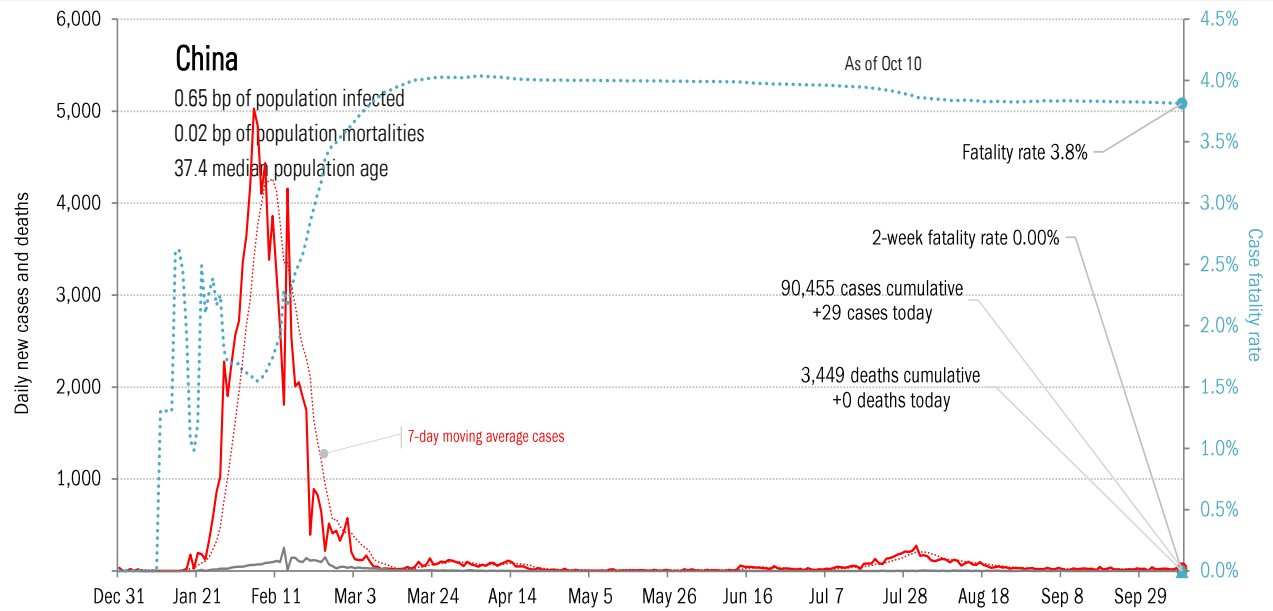
Source: [ECDC](#), TrendMacro calculations

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



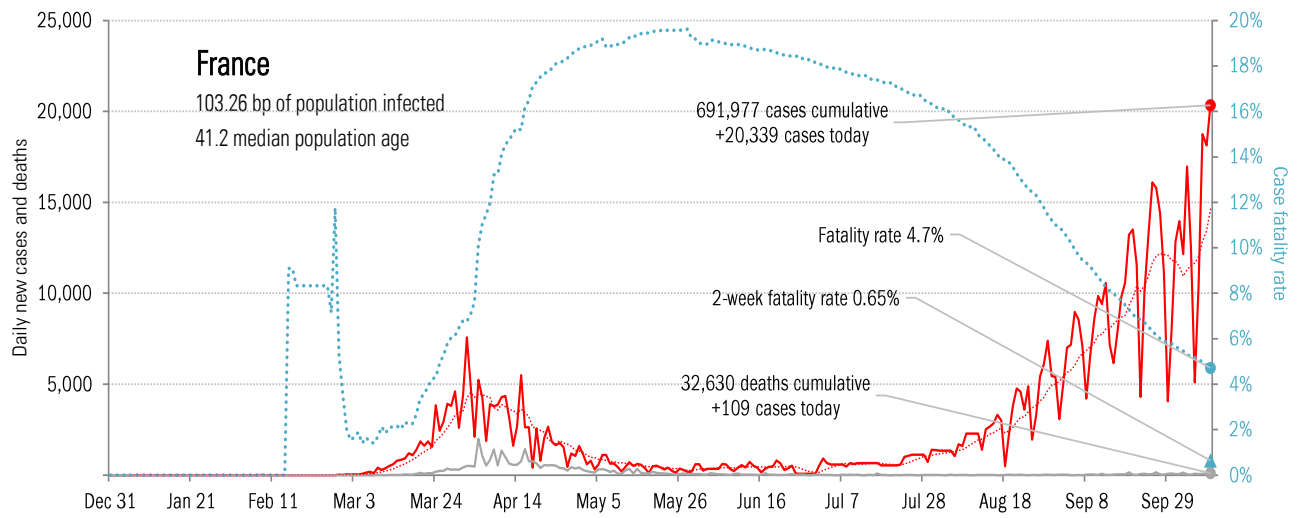
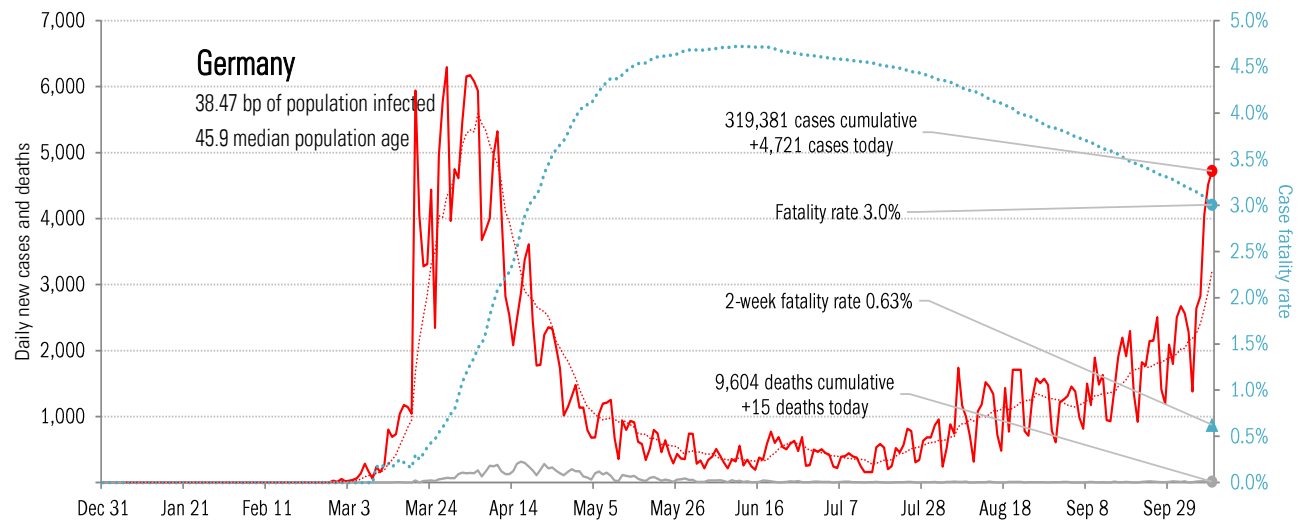
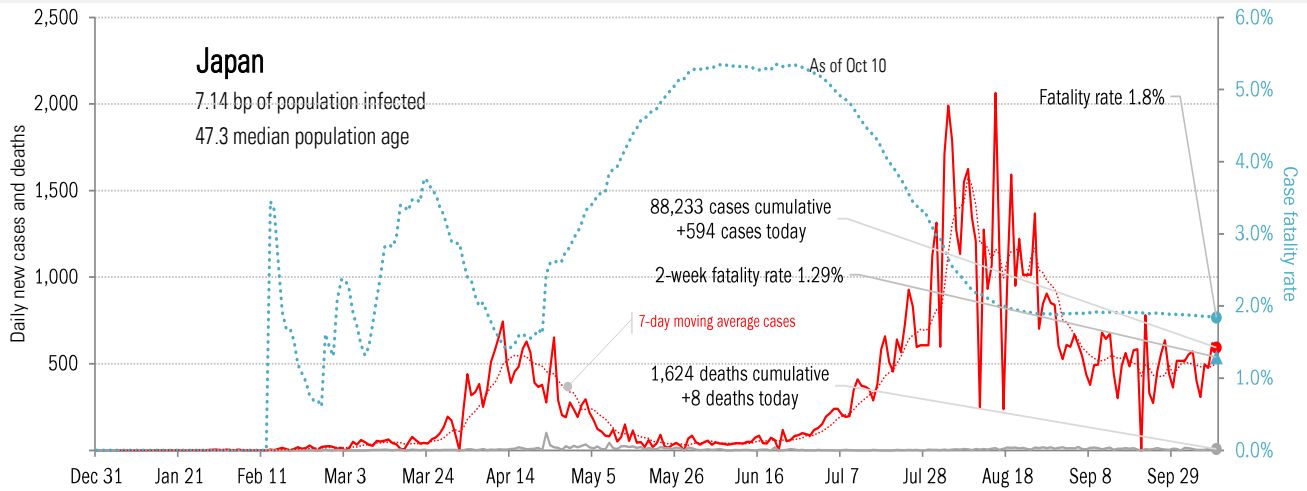
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



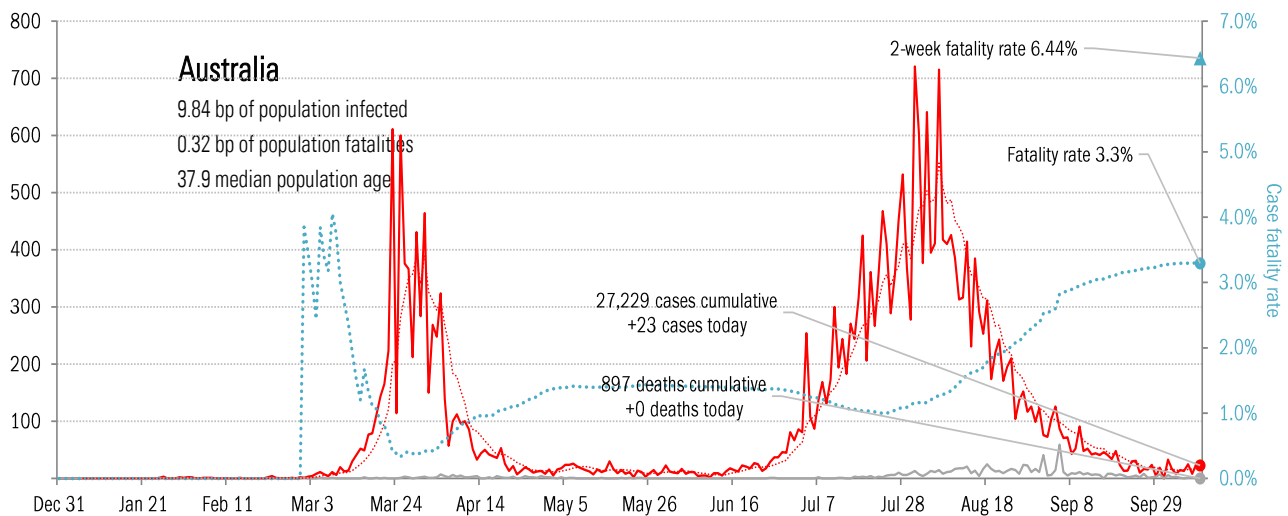
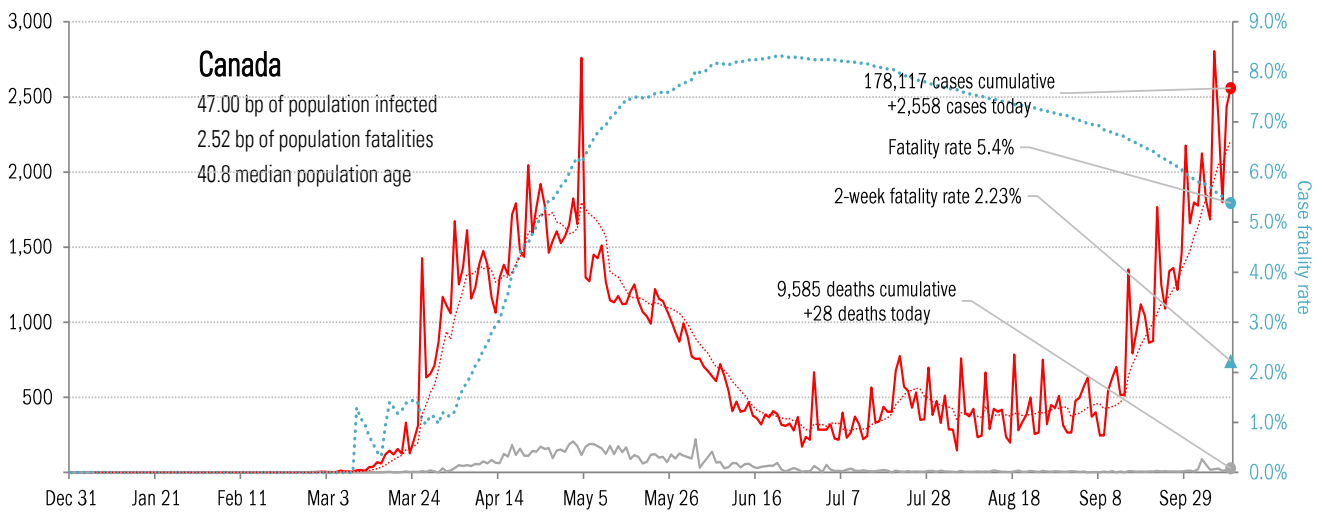
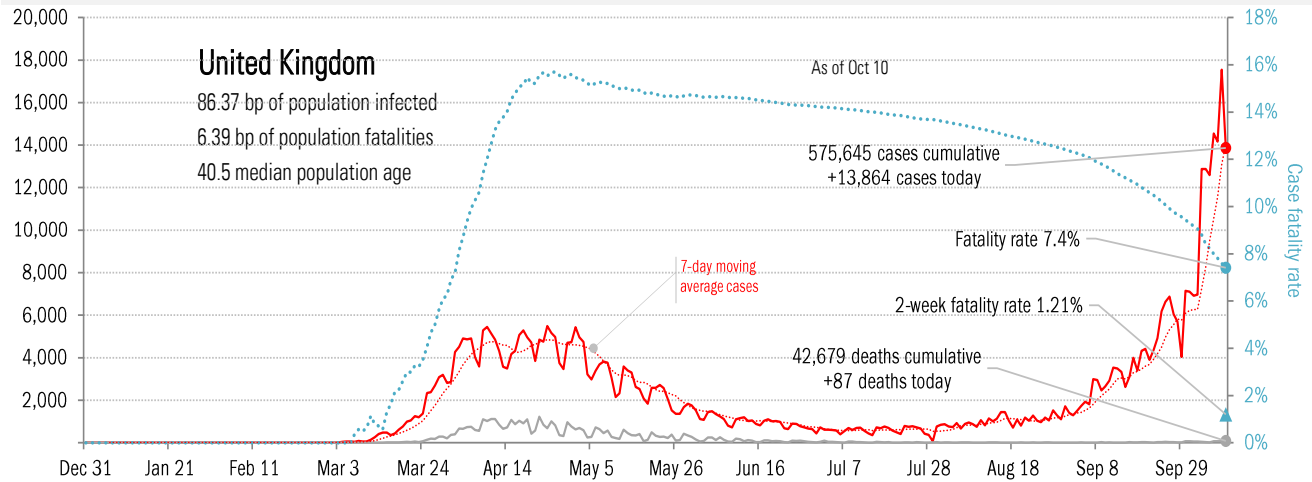
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



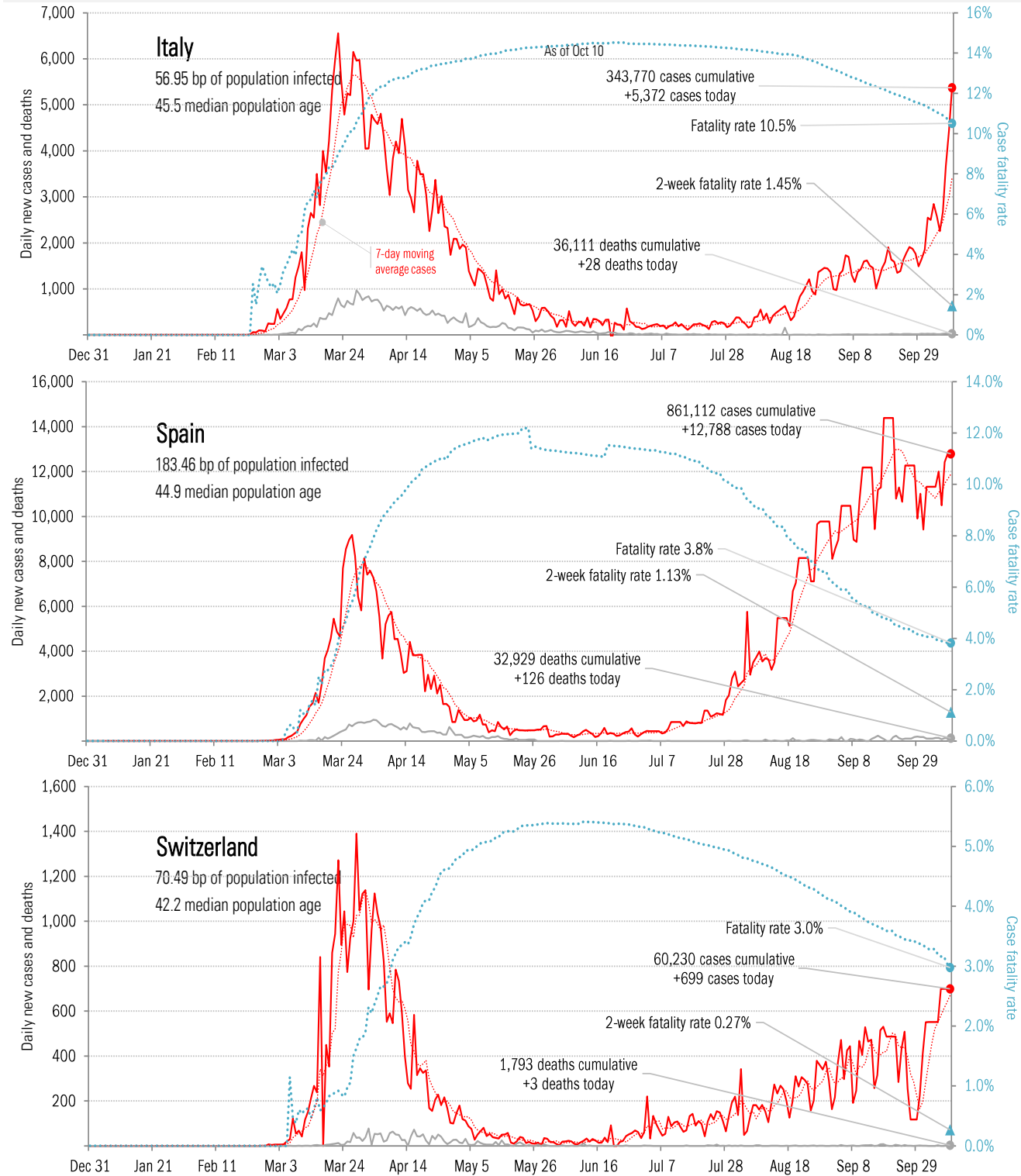
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



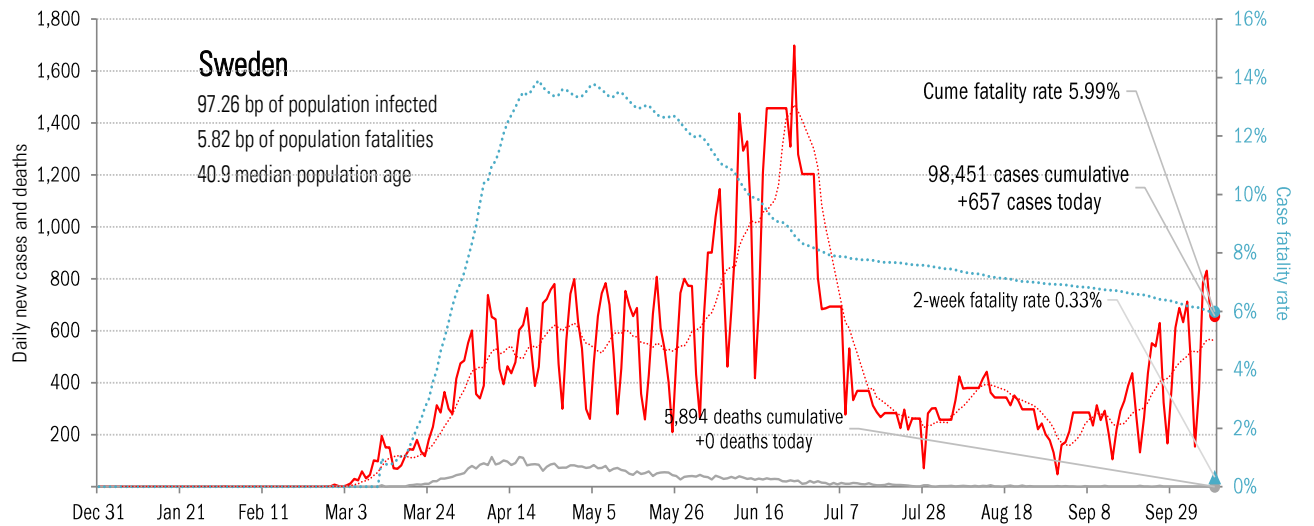
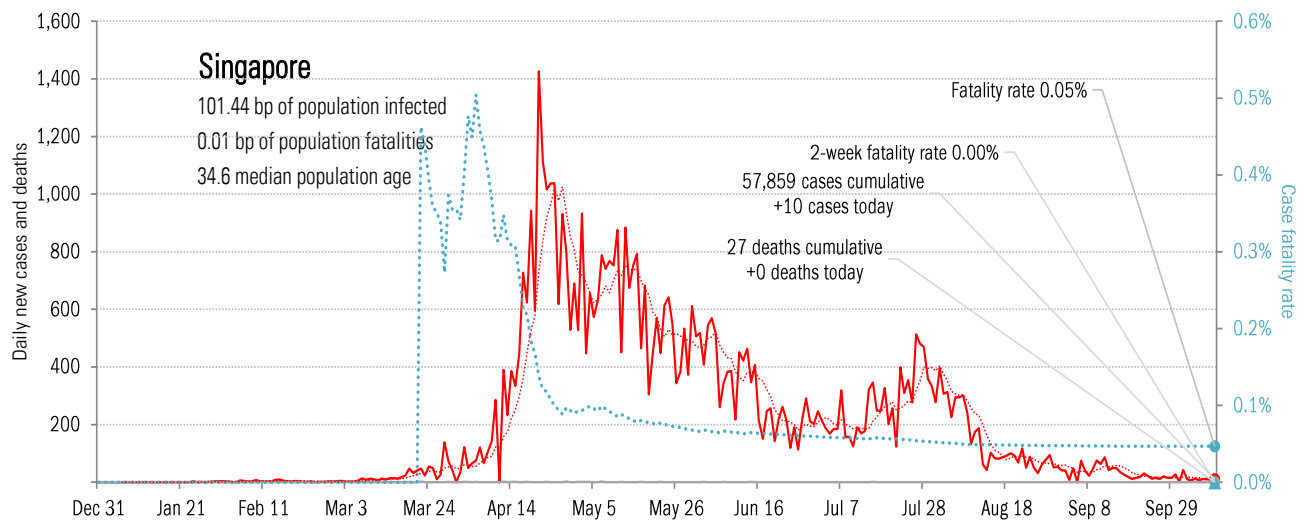
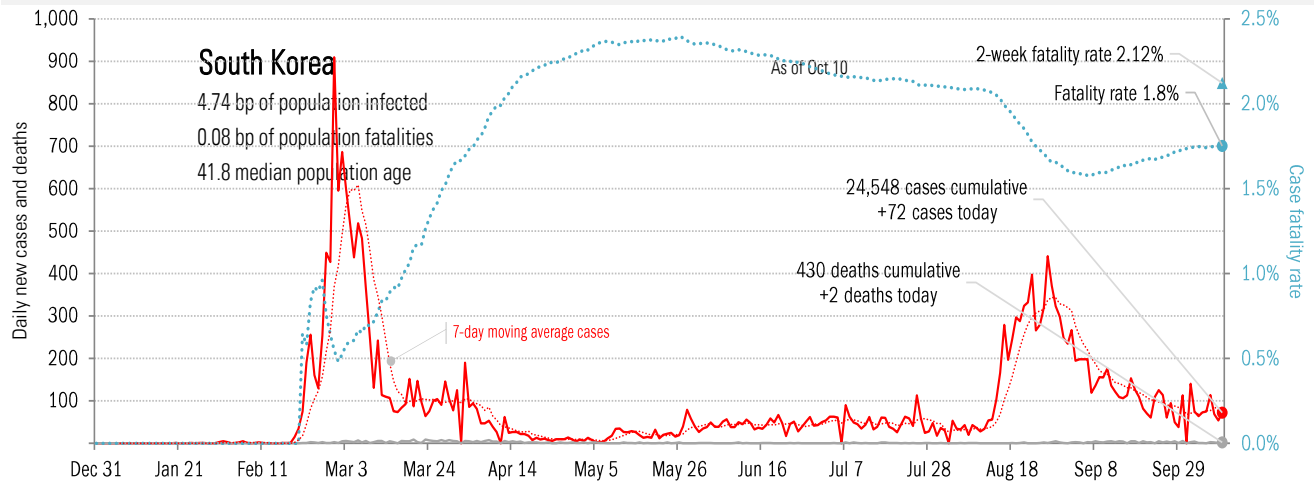
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



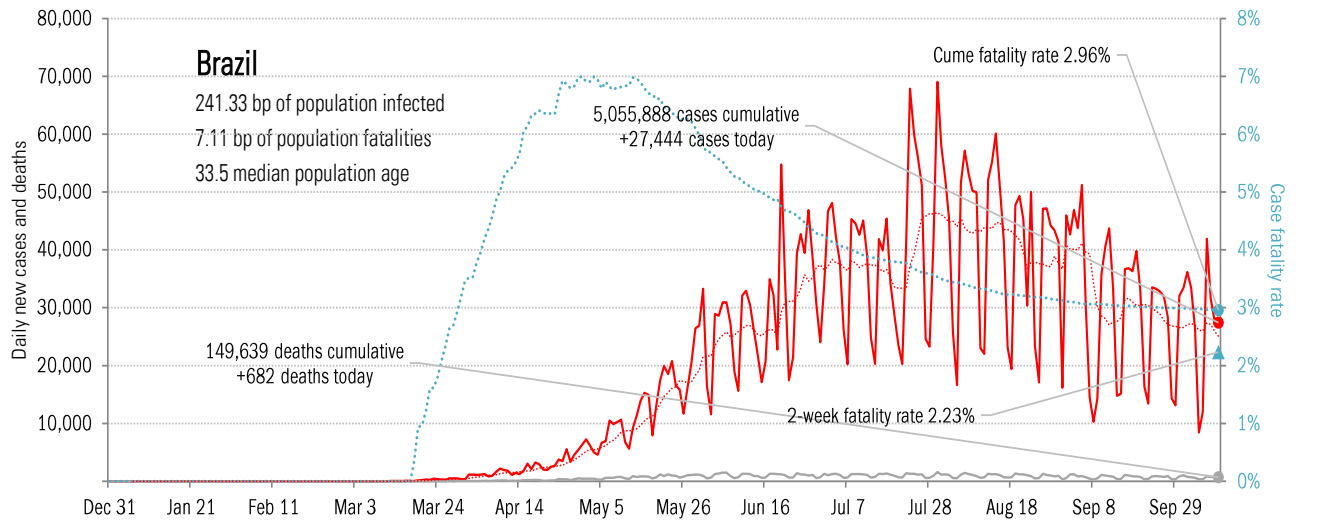
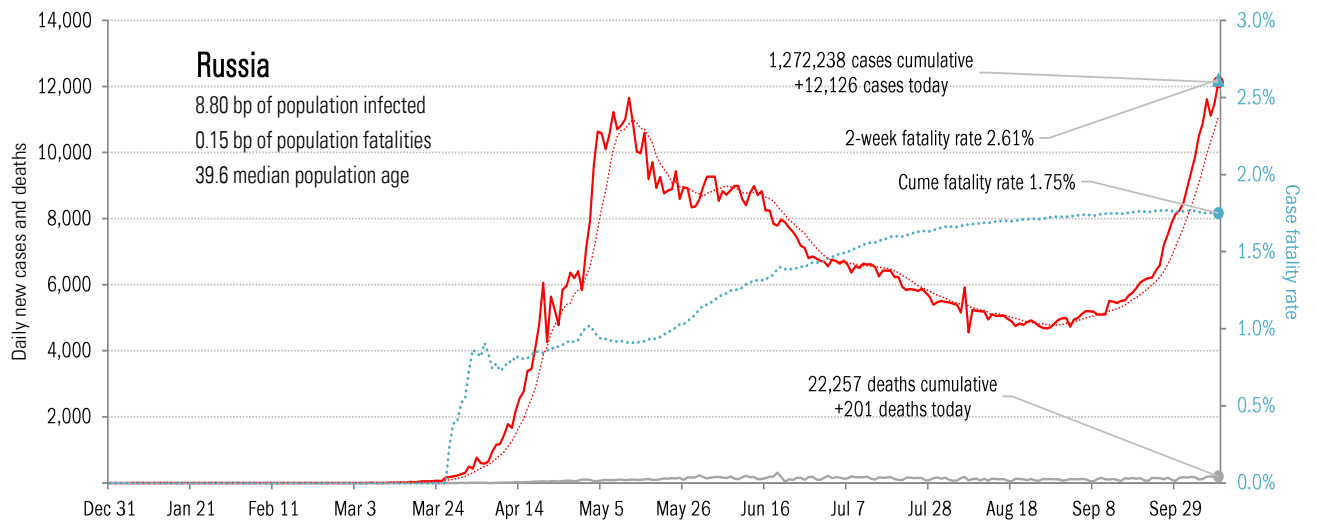
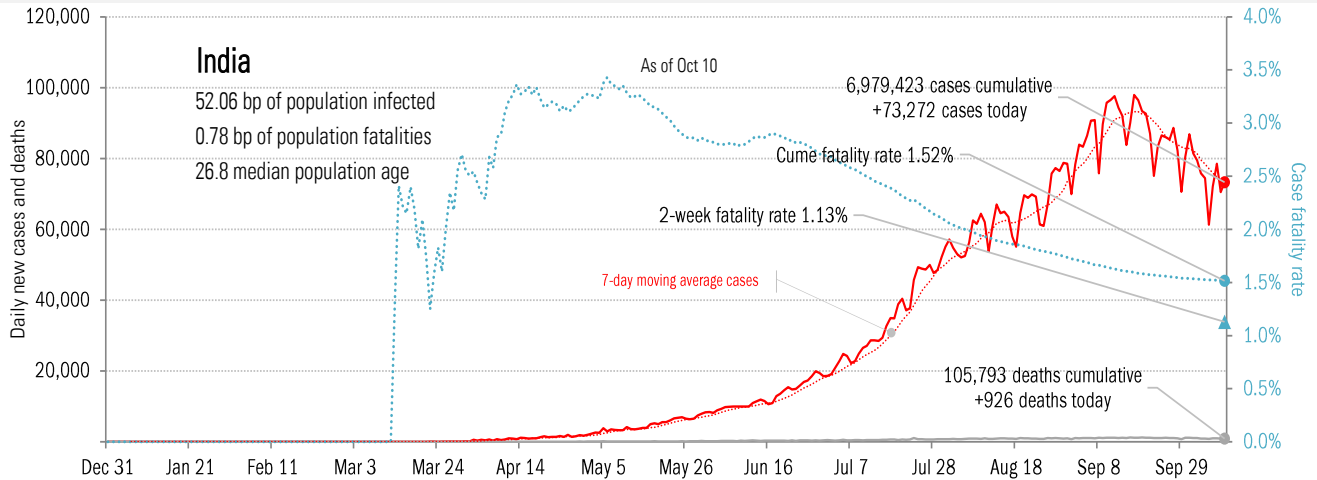
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



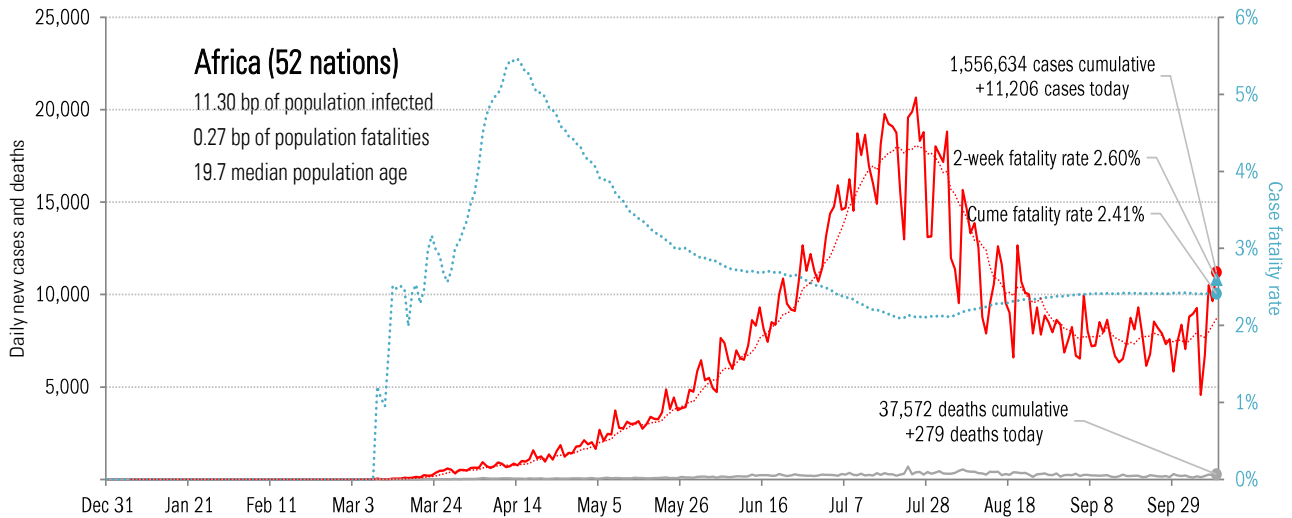
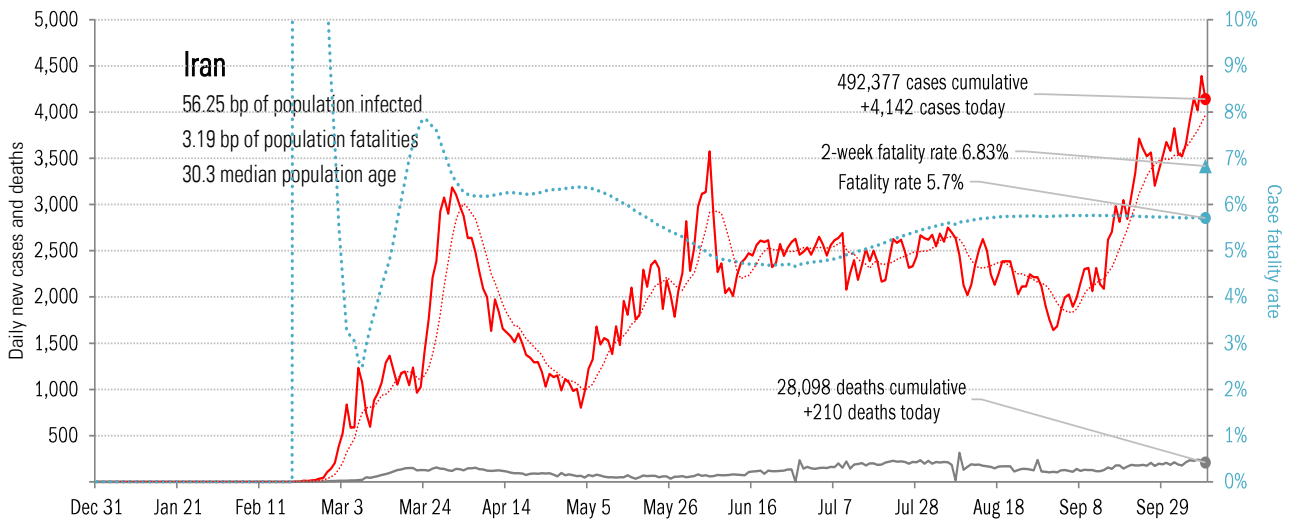
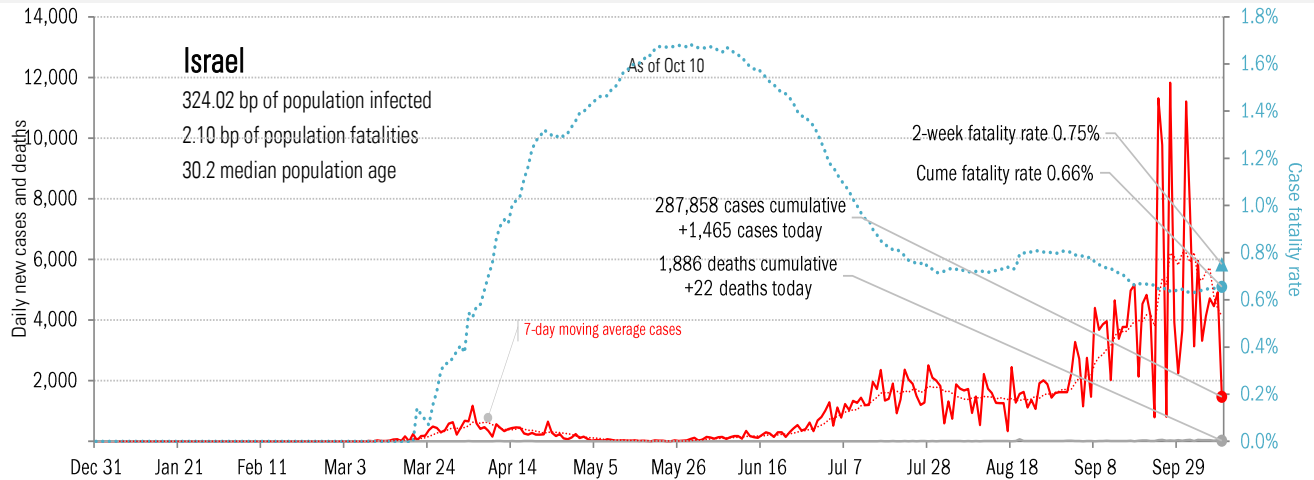
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations