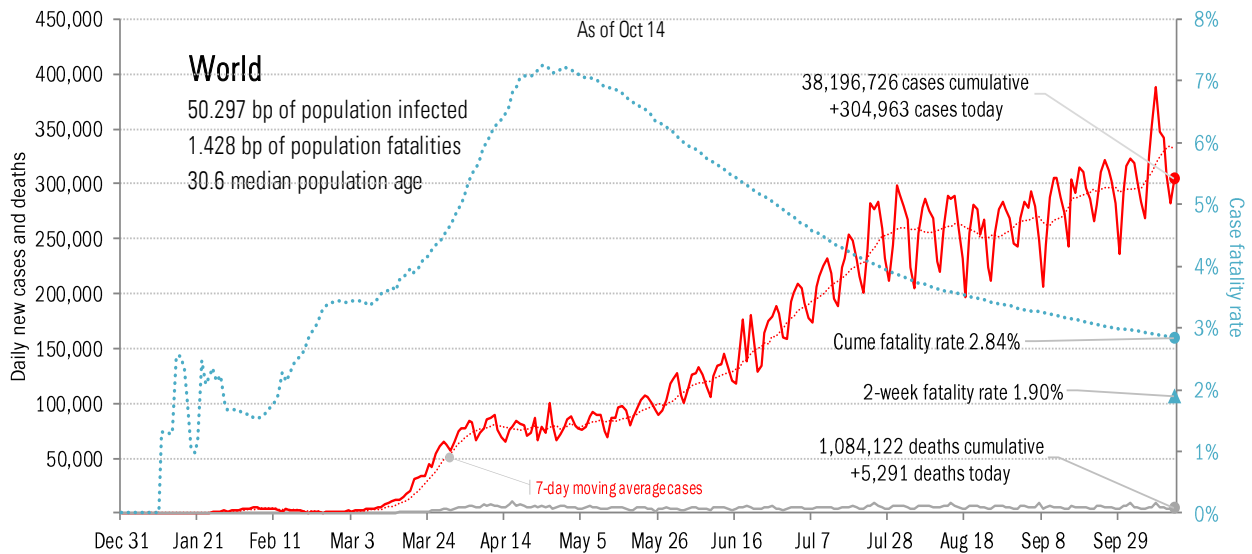
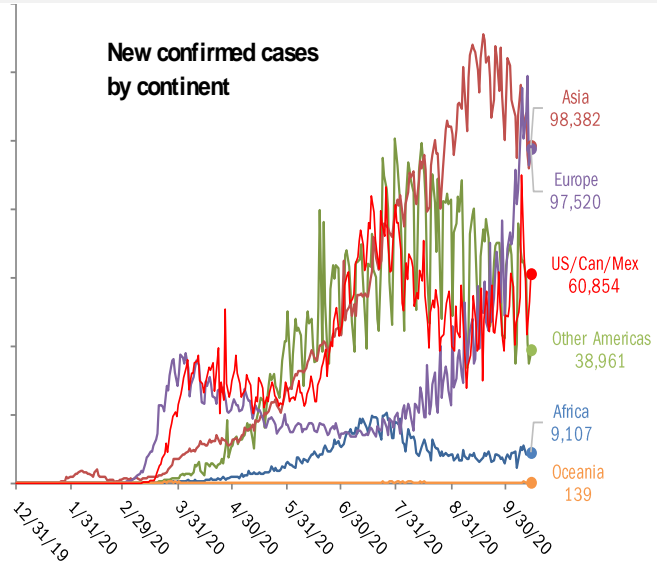


Data Insights: Covid-2019 Monitor

Wednesday, October 14, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+63,509	US	+817
US	+52,517	India	+730
UK	+17,232	Mexico	+475
Russia	+13,868	Argentina	+386
Argentina	+13,305	Brazil	+309
France	+12,993	Iran	+254
Brazil	+10,220	South_Africa	+248
Czechia	+8,326	Russia	+244
Netherlands	+7,368	Colombia	+156
Spain	+7,118	UK	+143
+206,456		+3,762	
World +304,963		World +5,291	
Top ten 68%		Top ten 71%	



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

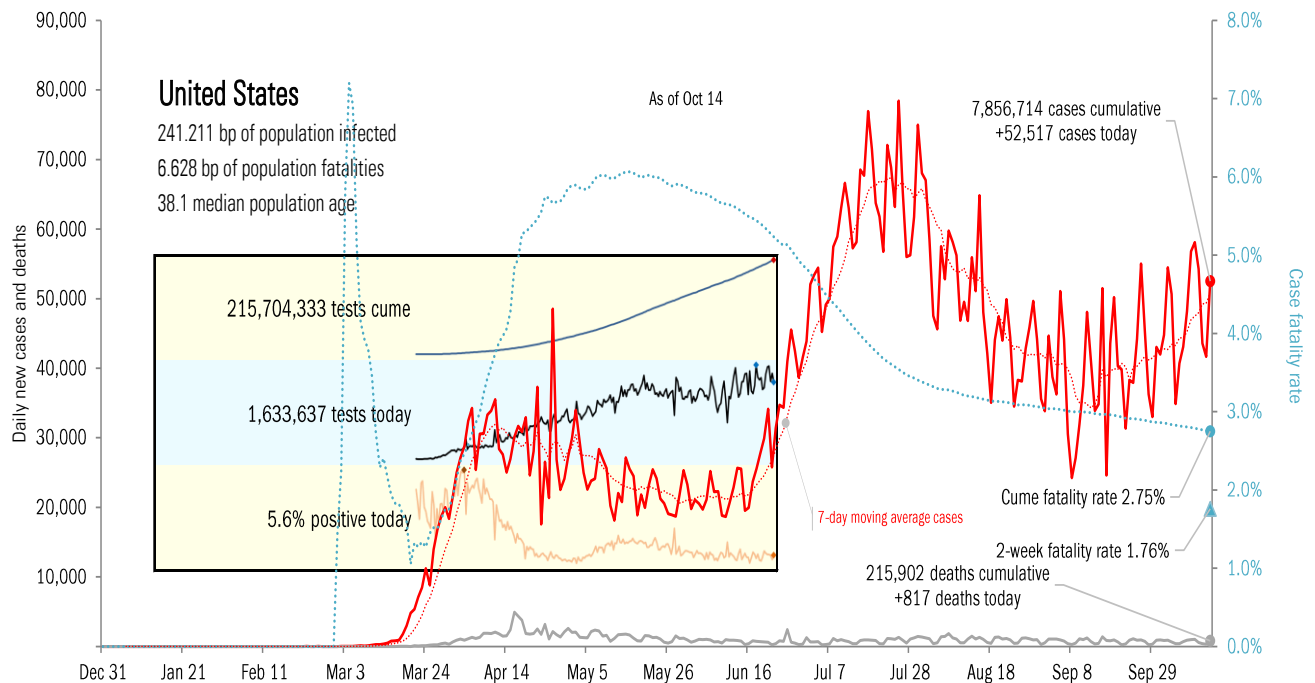
The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
TX	+5,289	FL	+123	TN	+300	CA	852,406	NY	25,598	NY	89,995
WI	+3,428	TX	+64	TX	+183	TX	800,415	TX	16,622	FL	46,753
IL	+2,851	NC	+43	GA	+87	FL	738,749	CA	16,581	GA	29,762
FL	+2,725	WI	+34	IL	+84	NY	476,708	NJ	16,182	NJ	23,977
CA	+2,378	MI	+30	CH	+67	GA	333,304	FL	15,722	AZ	20,312
NC	+1,734	IL	+29	SC	+61	IL	327,781	MA	9,630	VA	19,656
IN	+1,549	IN	+27	IN	+50	NC	234,481	IL	9,272	AL	18,440
MI	+1,466	AR	+25	PA	+48	AZ	226,734	PA	8,384	CH	16,565
CH	+1,447	GA	+25	NY	+45	TN	218,829	GA	7,454	MD	16,150
NY	+1,393	TN	+23	AZ	+39	NJ	215,085	MI	7,255	IN	14,115
+24,260		+423		+964		4,424,492		132,700		295,725	
All states	+46,647	All states	+669	All states	+962	All states	7,817,857	All states	207,557	All states	426,255
Top ten	52%	Top ten	63%	Top ten	100%	Top ten	57%	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	
KS	-2,055	KS	-8	FL	-162	AR	+10
TN	-1,818	UT	-5	AL	-77	UT	+7
CA	-1,071	LA	-4	NC	-69	AL	+4
CT	-1,019	NY	-2	WI	-69	AK	+0
MI	-466	PA	-2	TX	-65	AS	+0



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

Recommended reading

[Regeneration's Coronavirus October Surprise](#)

Marc Siegel
Wall Street Journal
October 13, 2020

[Mental Health Disorders Related to COVID-19–Related Deaths](#)

Naomi M. Simon et al.
Journal of the American Medical Association
October 12, 2020

[What if both the lockdowners and the anti-lockdowners are wrong?](#)

Jamie Powell
Financial Times
October 13, 2020

[The Two Million Lives President Trump has Saved from COVID-19](#)

Newt Gingrich
Newsweek
October 13, 2020

[CDC Study Finds Overwhelming Majority Of People Getting Coronavirus Wore Masks](#)

Jordan Davidson
The Federalist
October 12, 2020

[Amazon Thoroughly Wrecks Narrative About Lockdowns Being Necessary](#)

David Simon
RealClear Markets
October 6, 2020

[Why has Google censored the Great Barrington Declaration?](#)

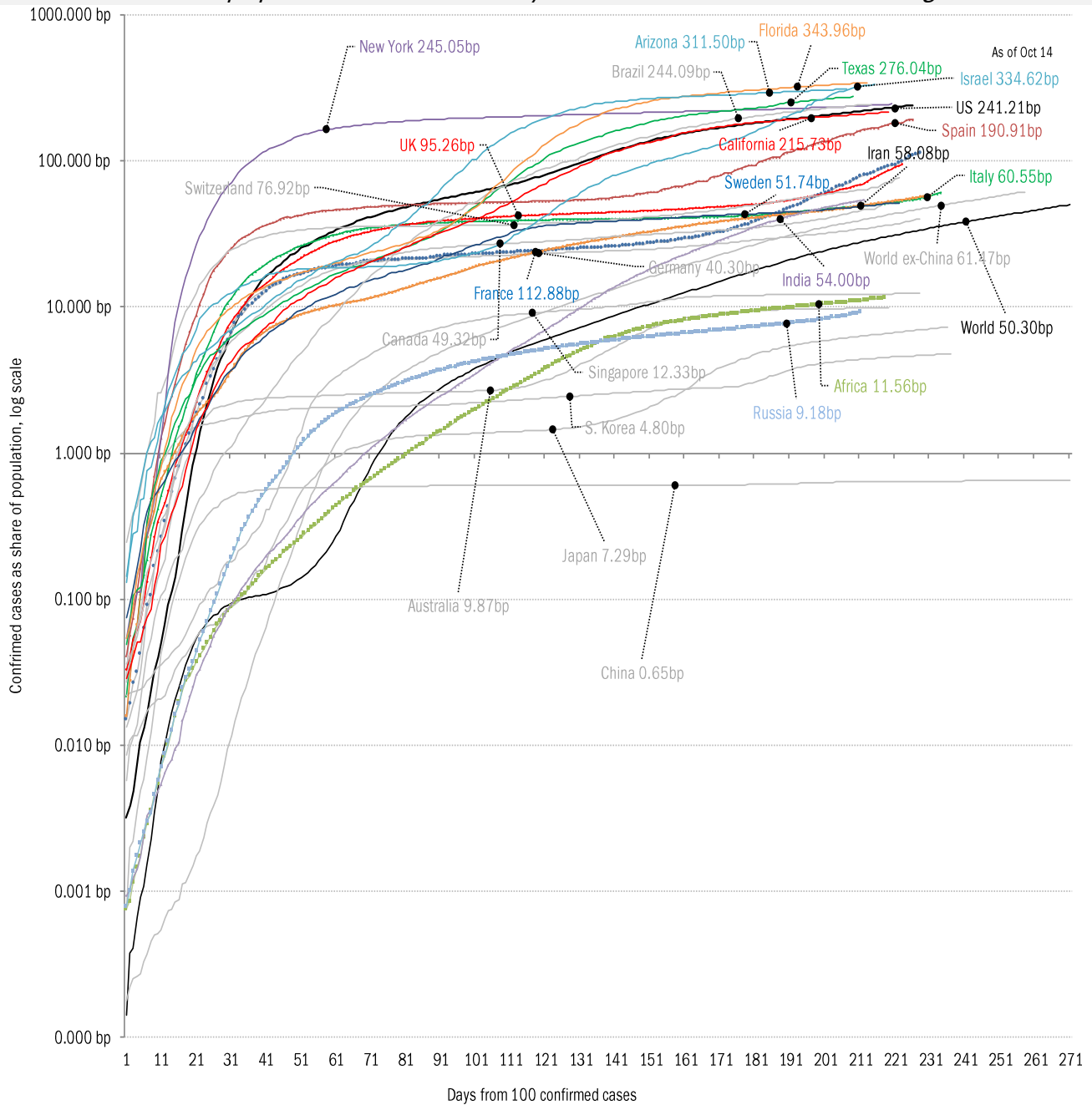
Fraser Myers
Spiked!
October 12, 2020

Meme of day

My conspiracy theory is that time travel IS real & someone keeps trying to fix 2020 by changing something but every time they do, they unwittingly make it worse.

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

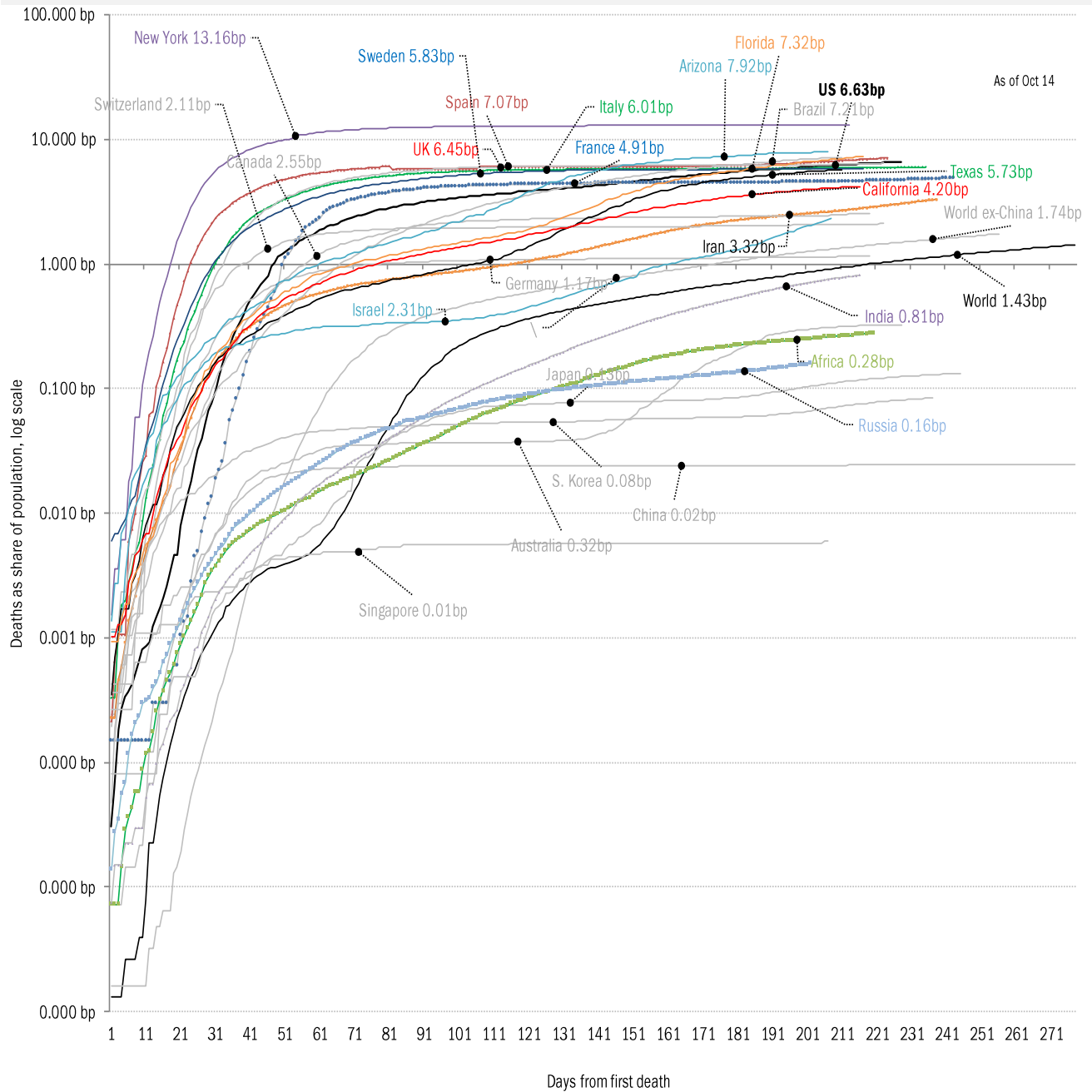
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

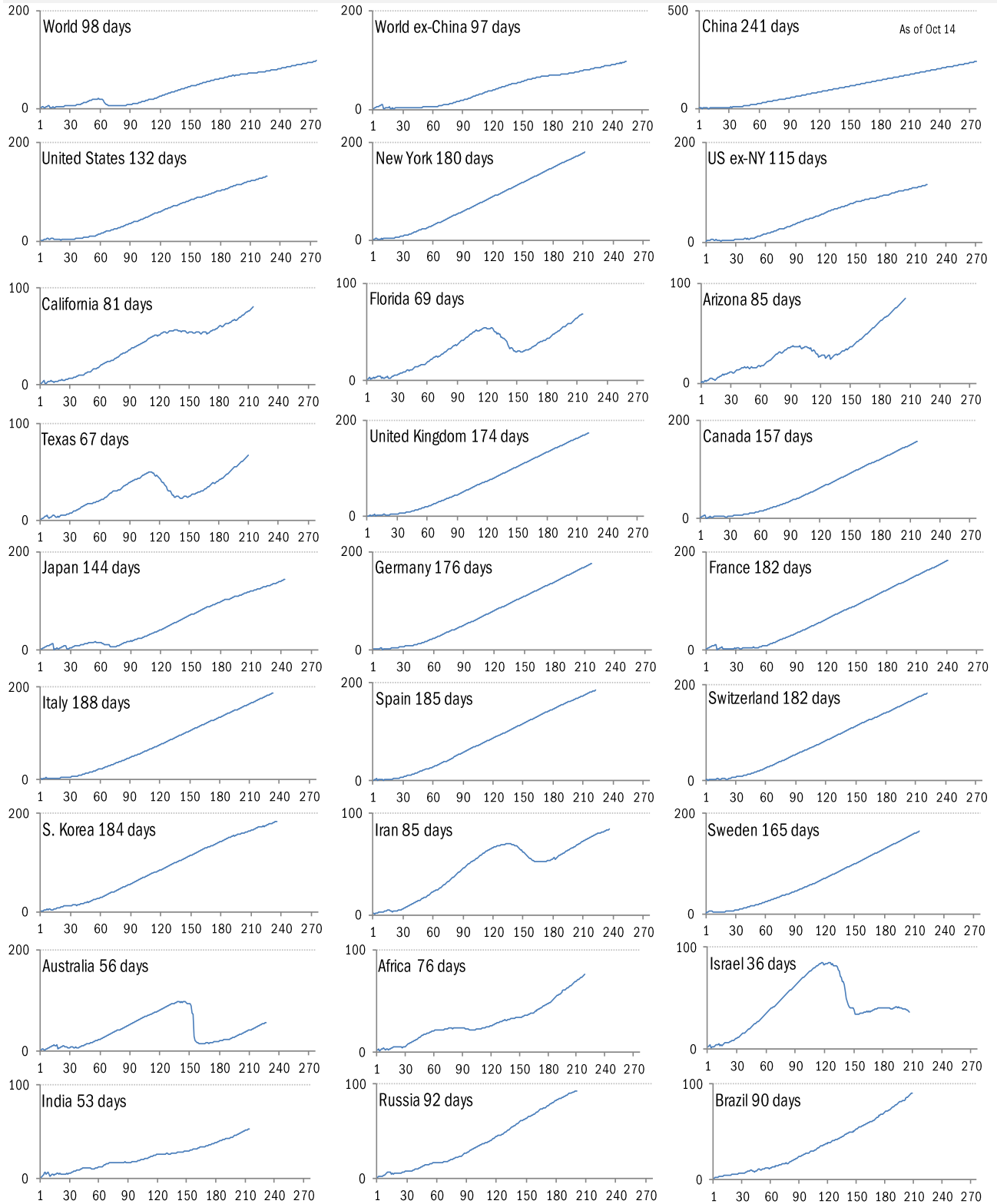


Source: [ECDC](#), TrendMacro calculations

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

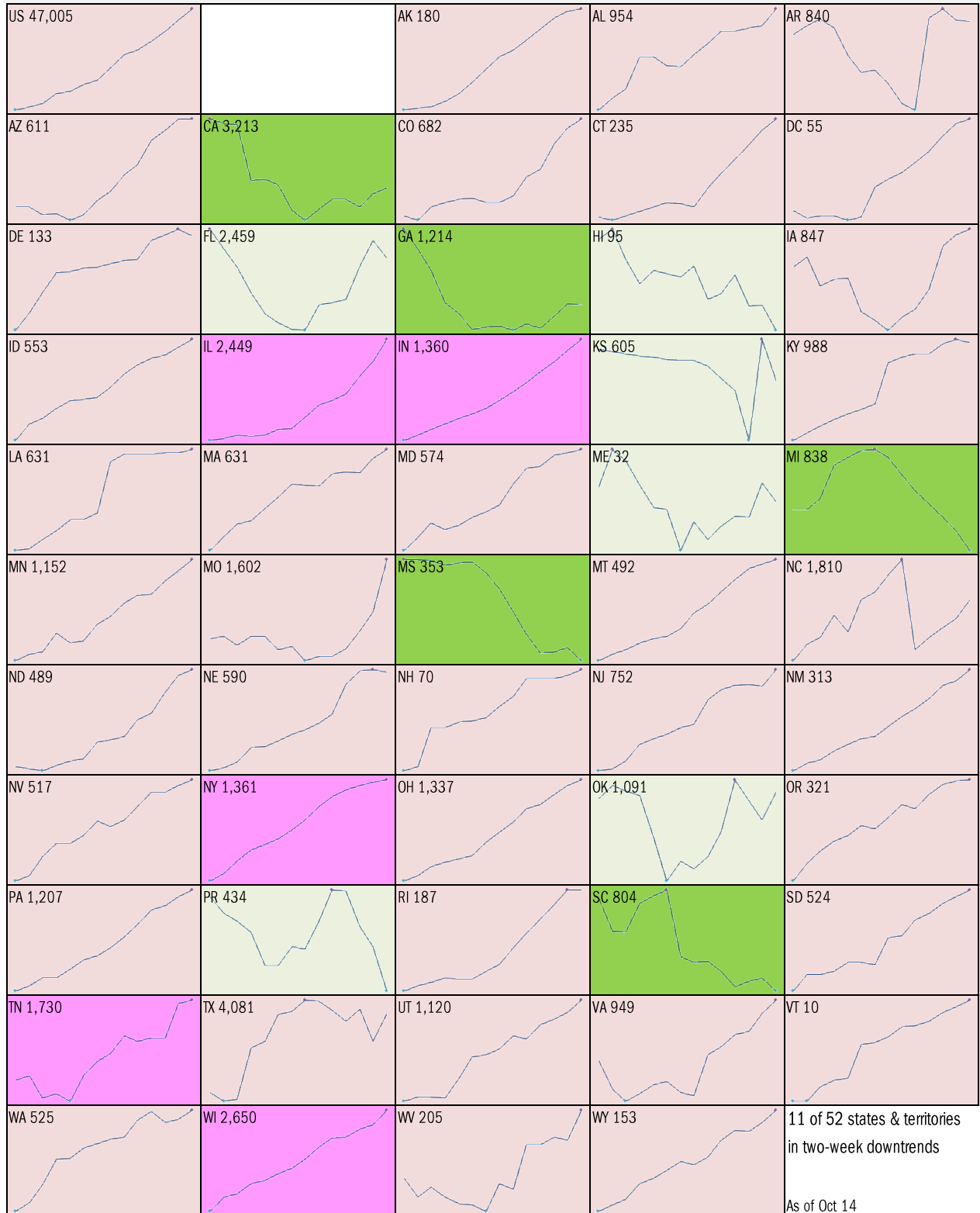
Vertical: days to double deaths Horizontal: days from first death

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



Source: [ECDC](https://www.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



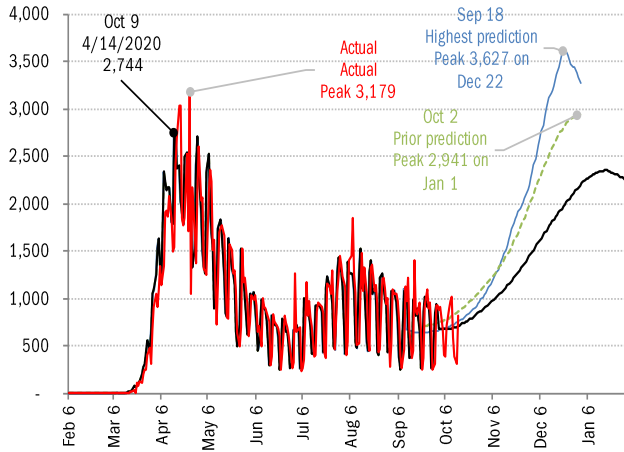
Source: [Covid Tracking Project](#), TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

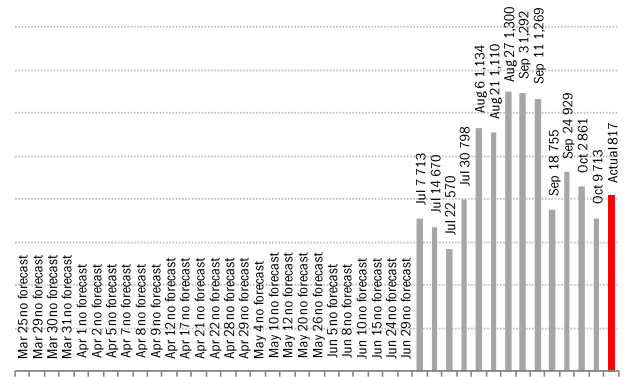
New daily fatalities

As of Oct 14

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

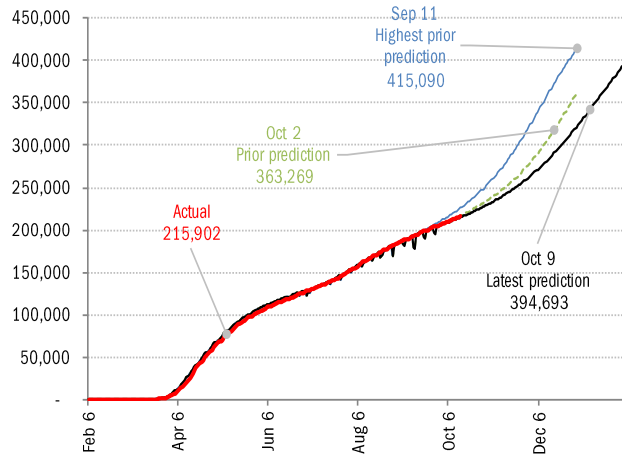


For this day, versus all model mean predictions

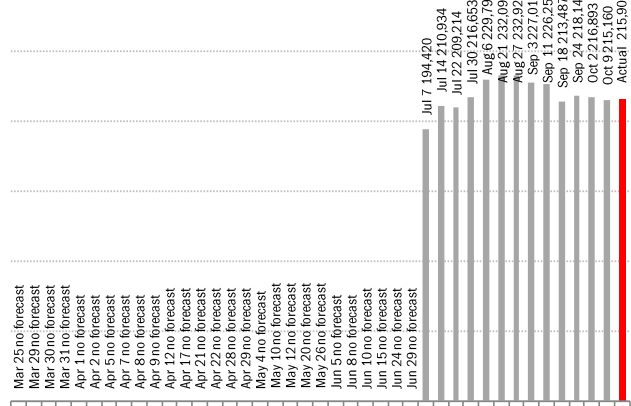


Cumulative fatalities

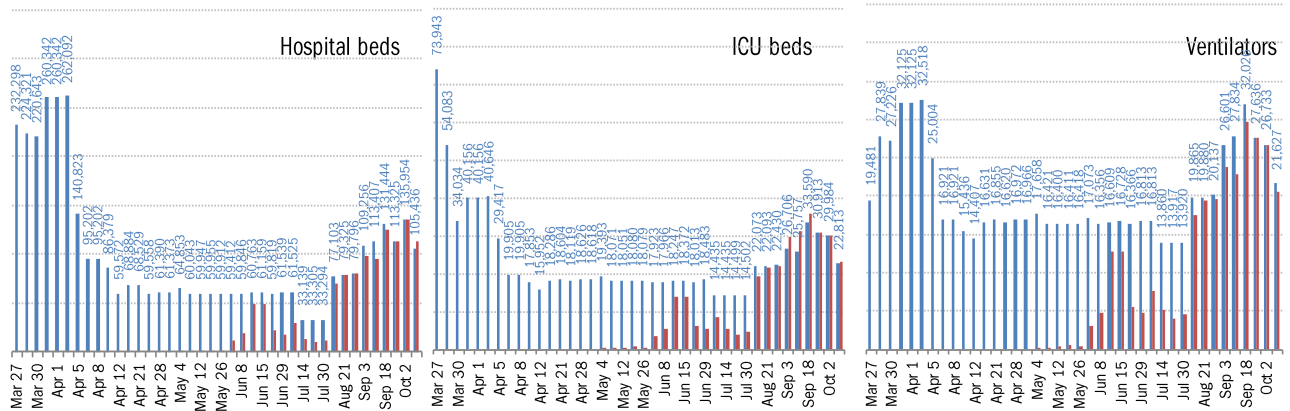
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

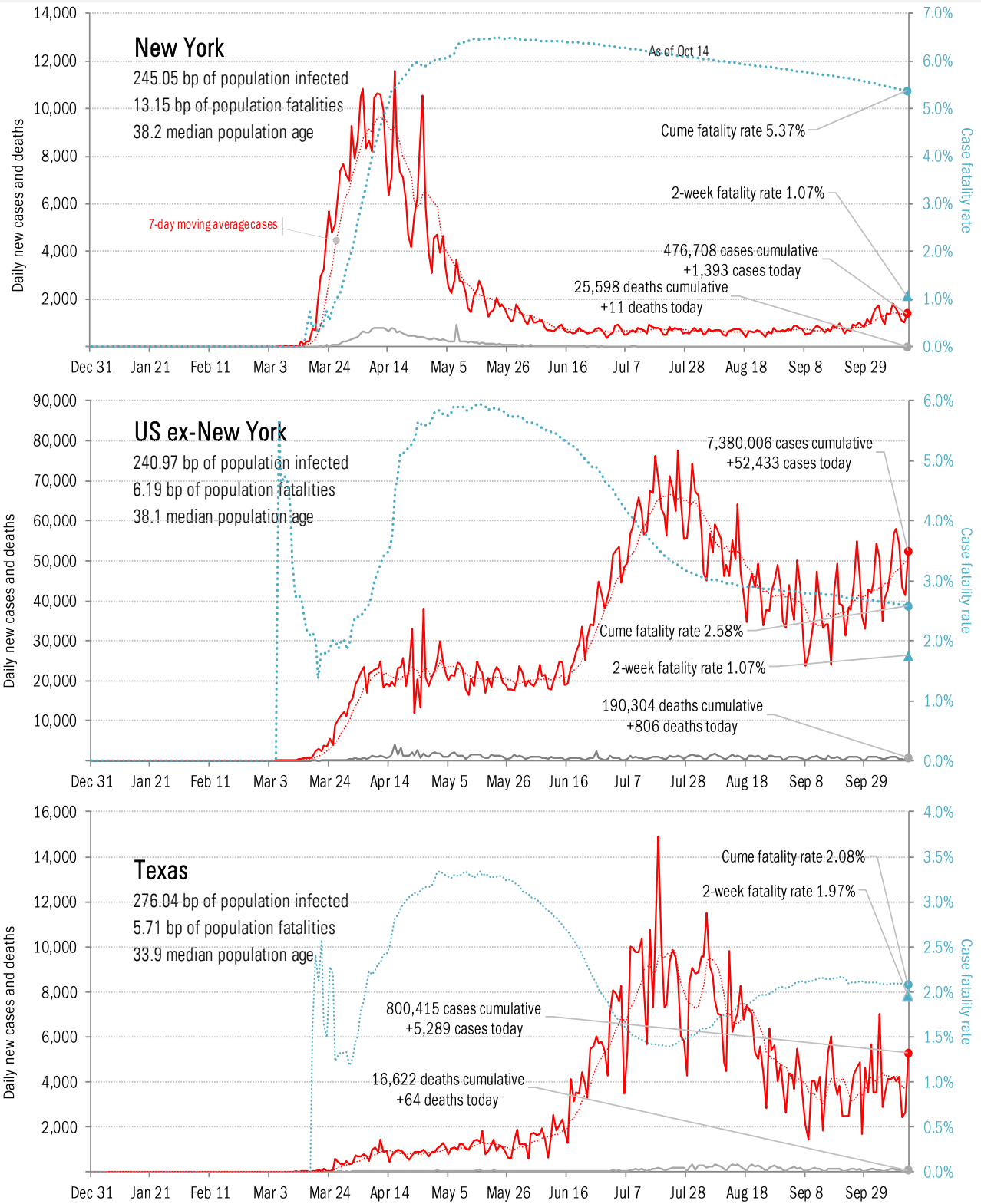


Healthcare system stress, peak and ultimate estimated at each model revision



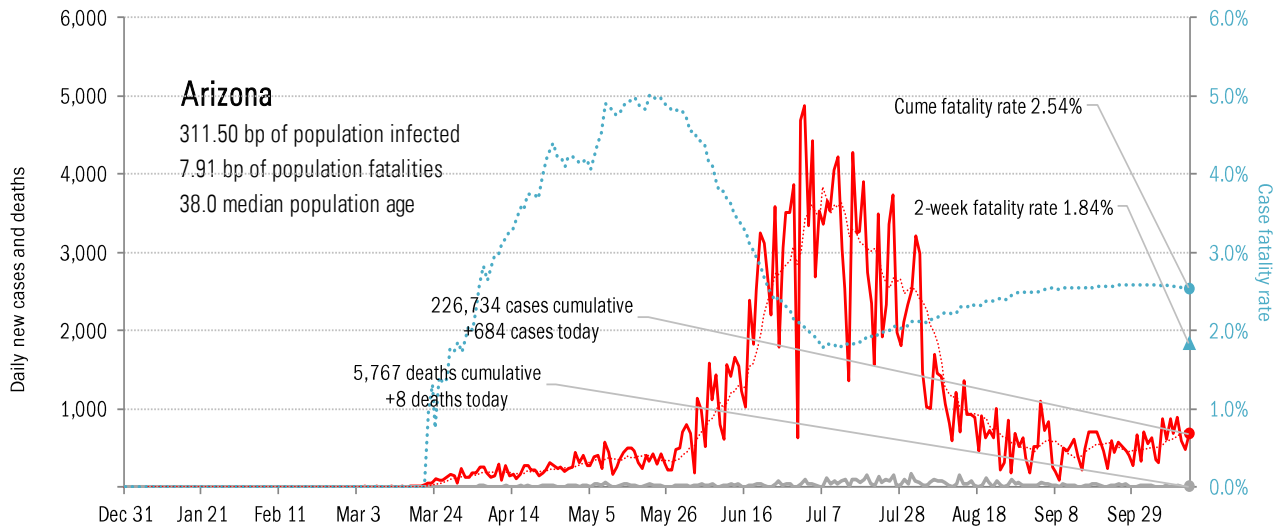
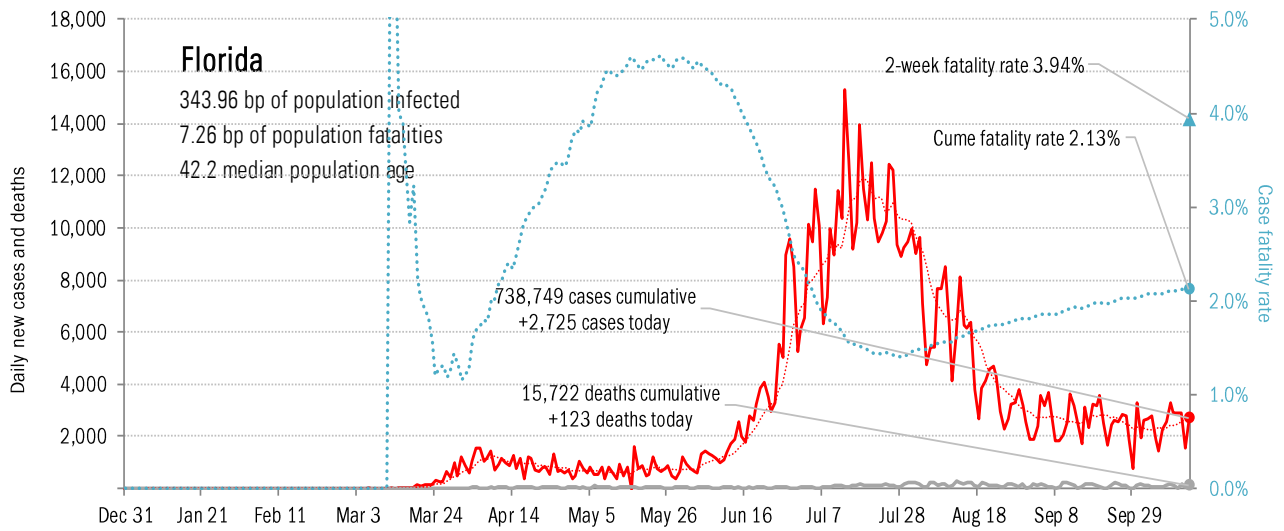
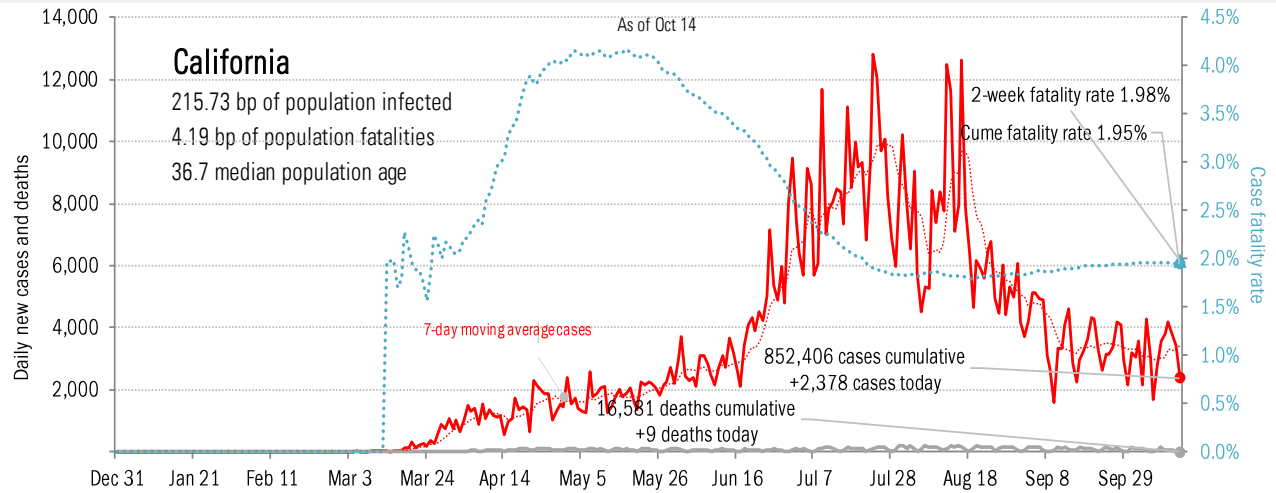
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



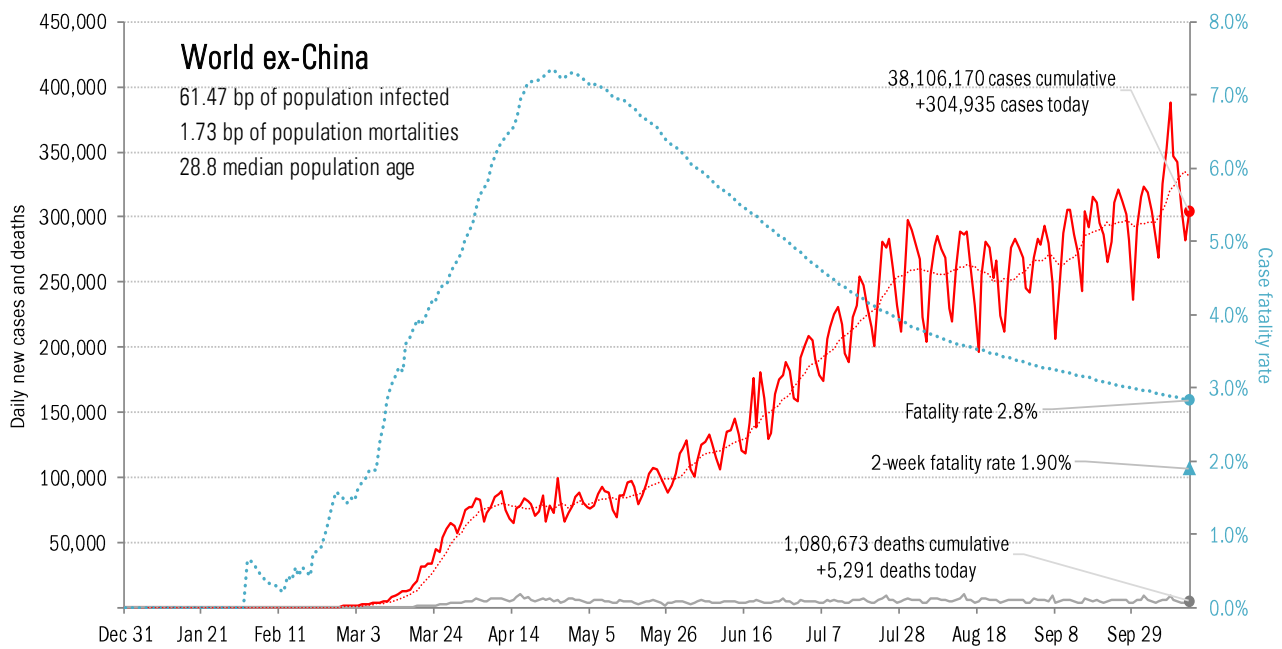
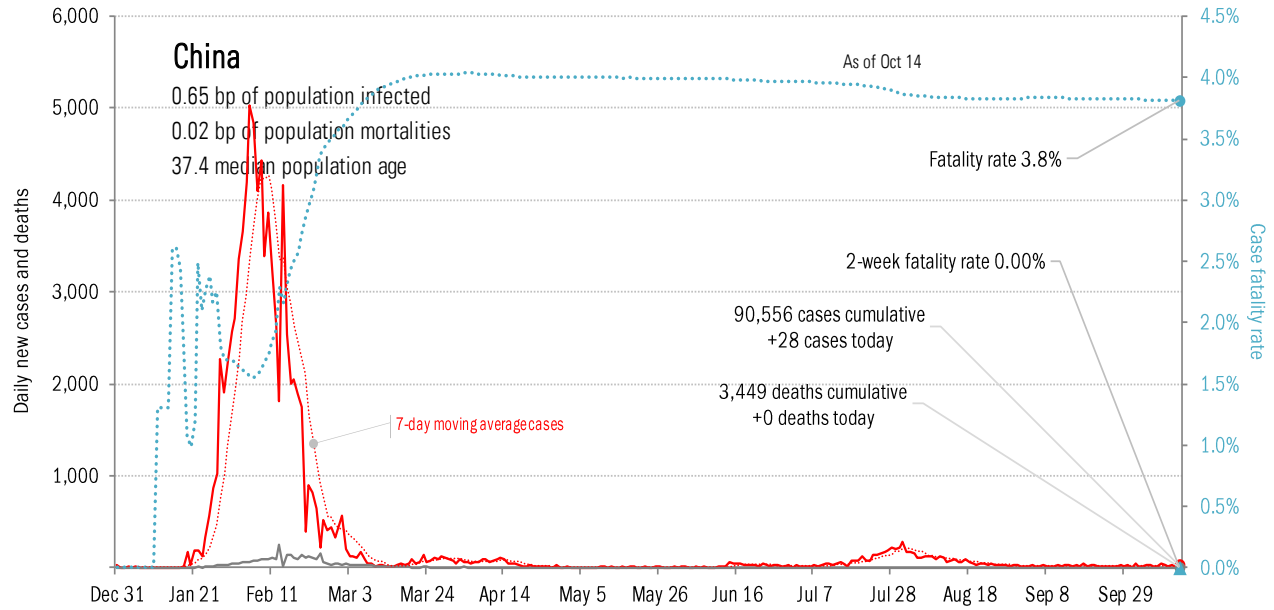
Source: [ECDC](#), TrendMacro calculations

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



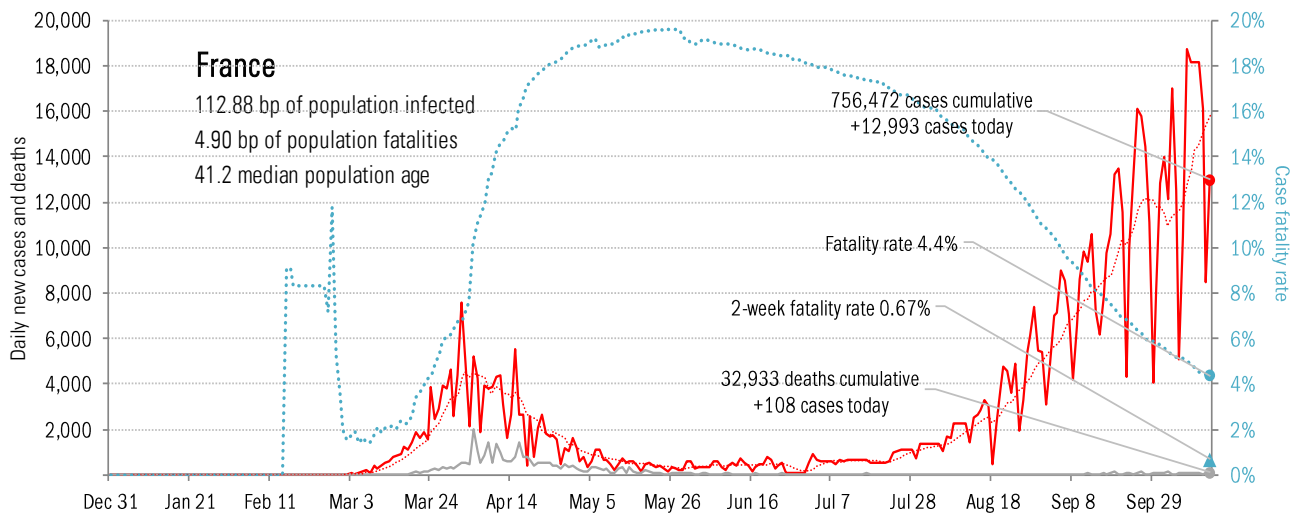
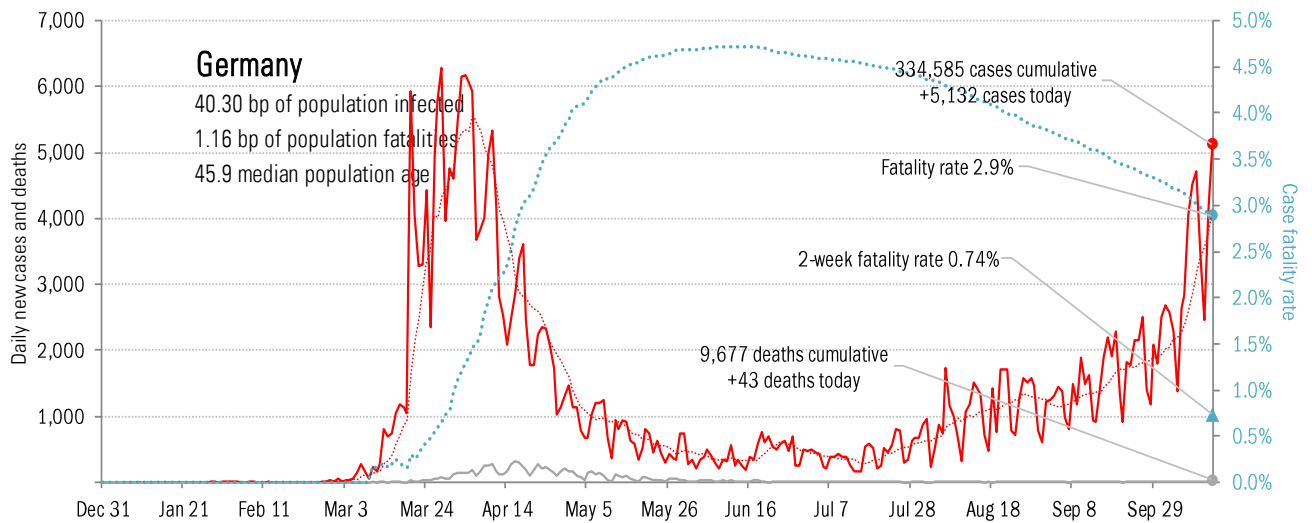
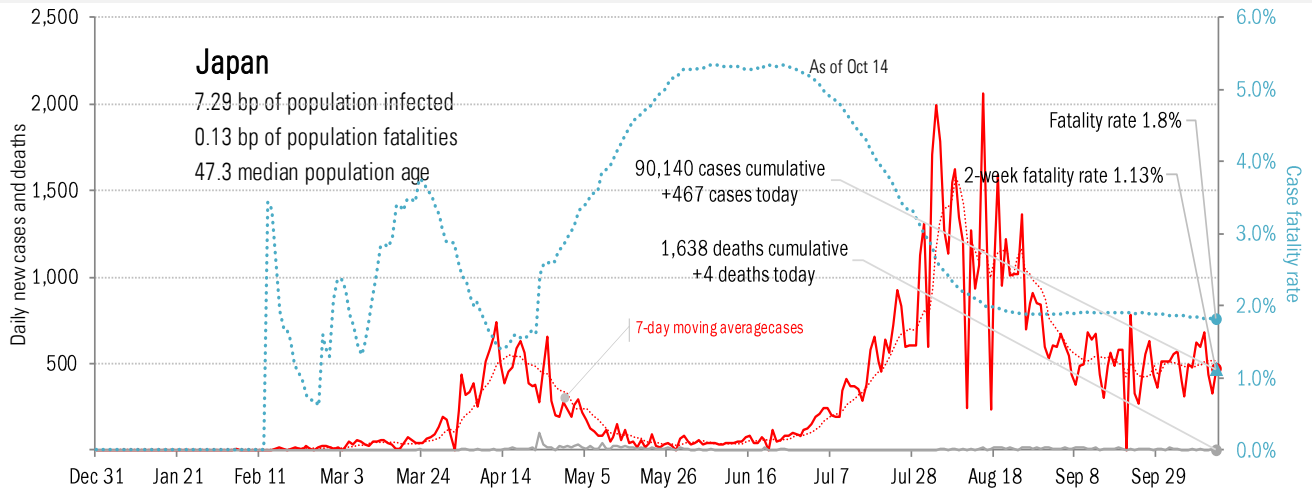
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



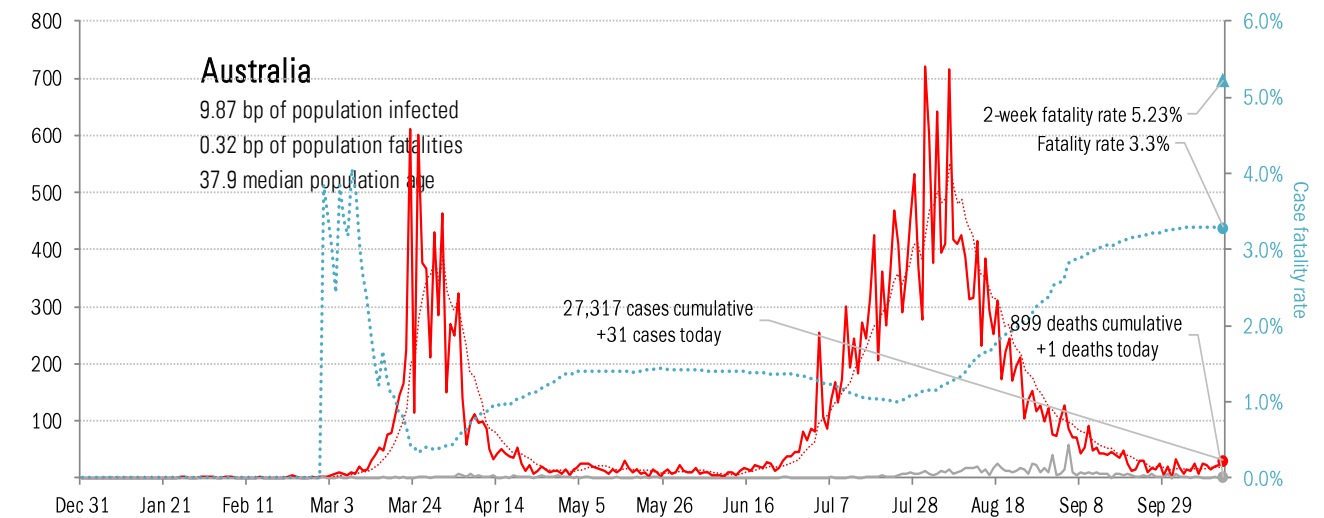
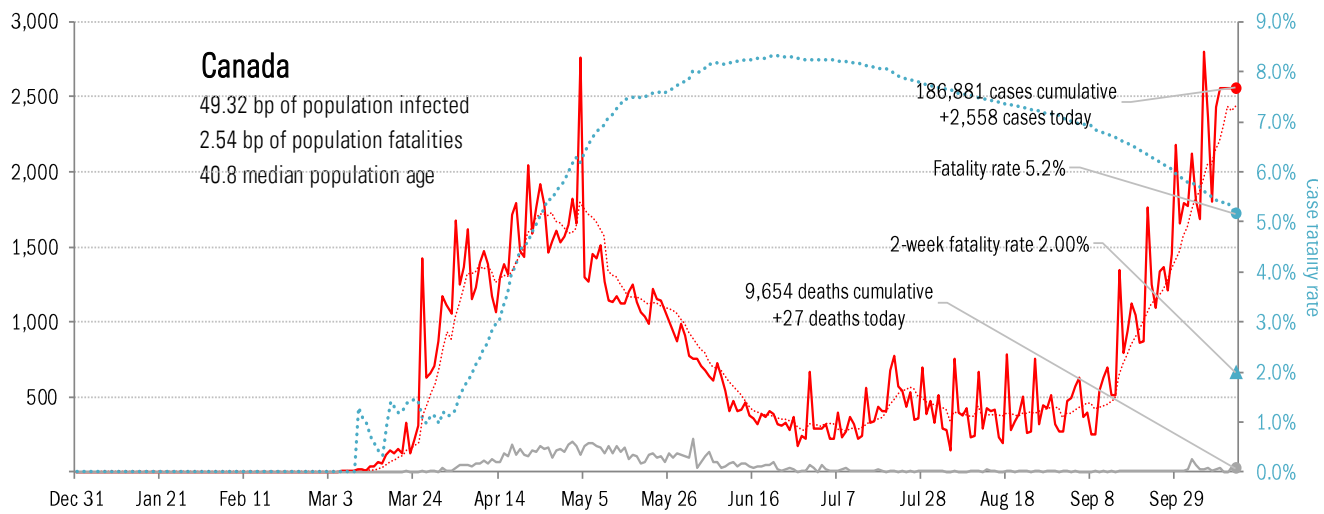
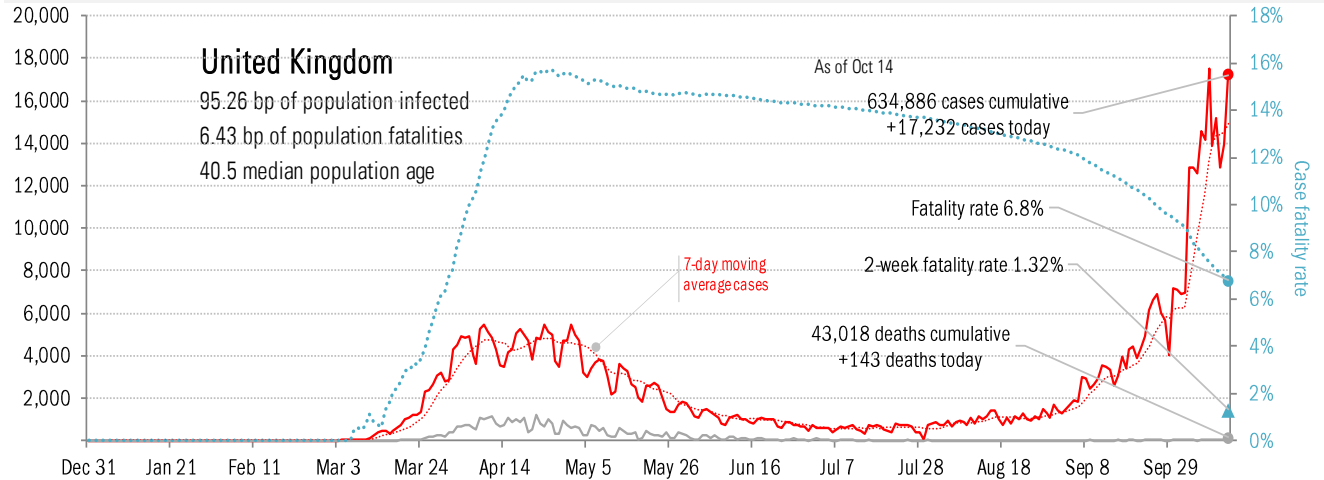
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



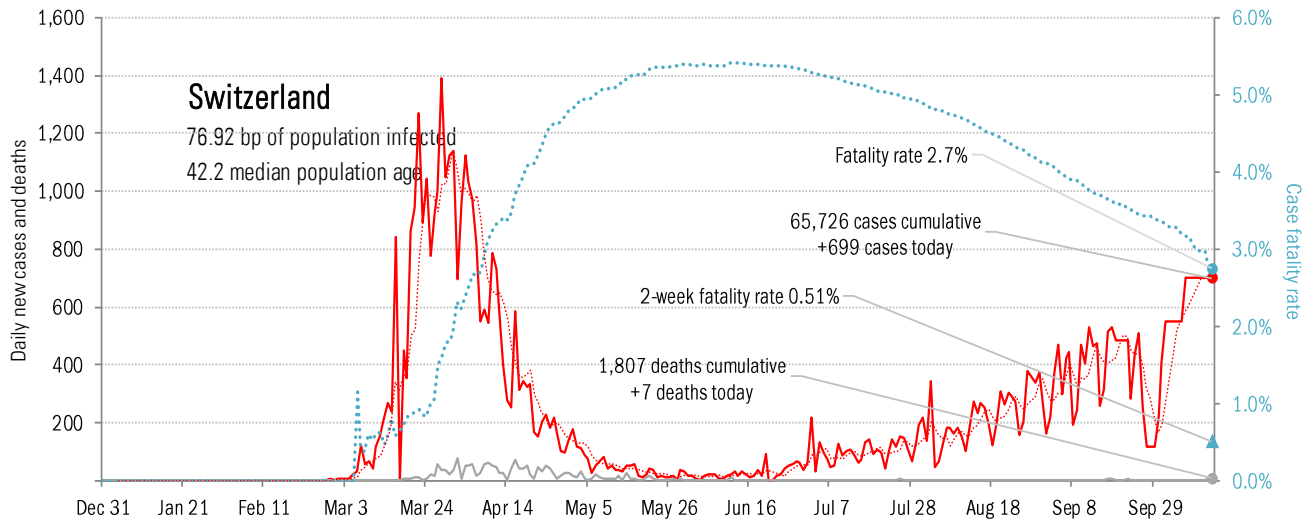
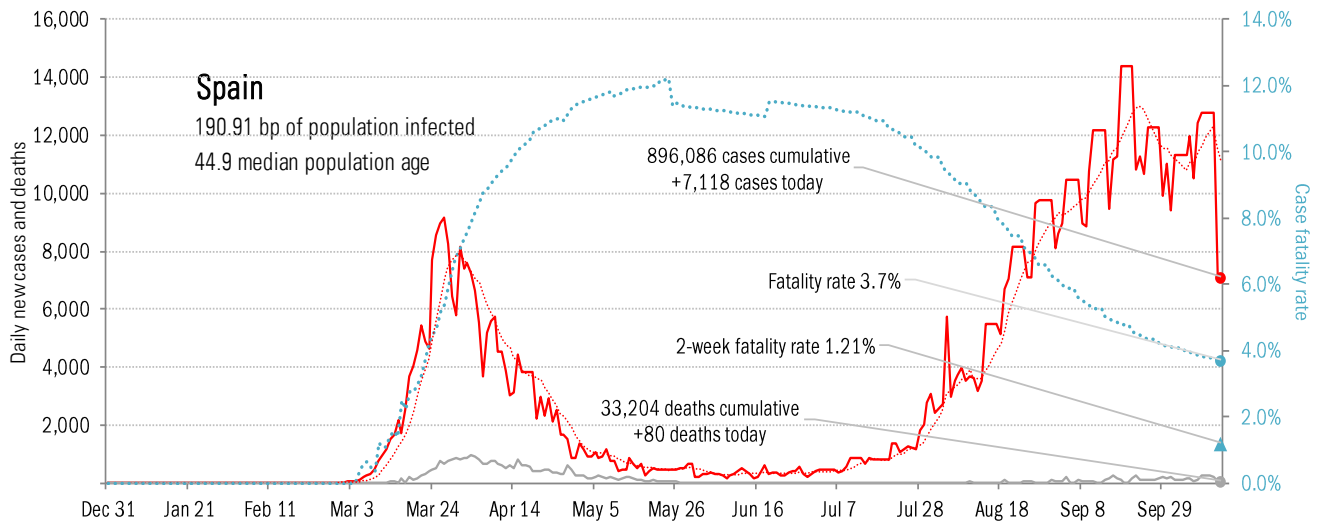
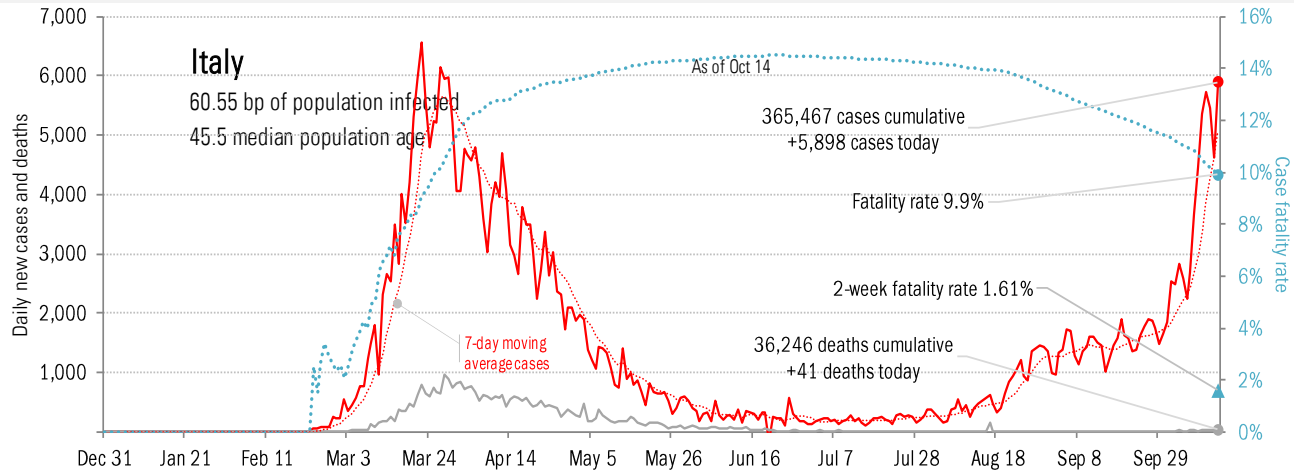
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



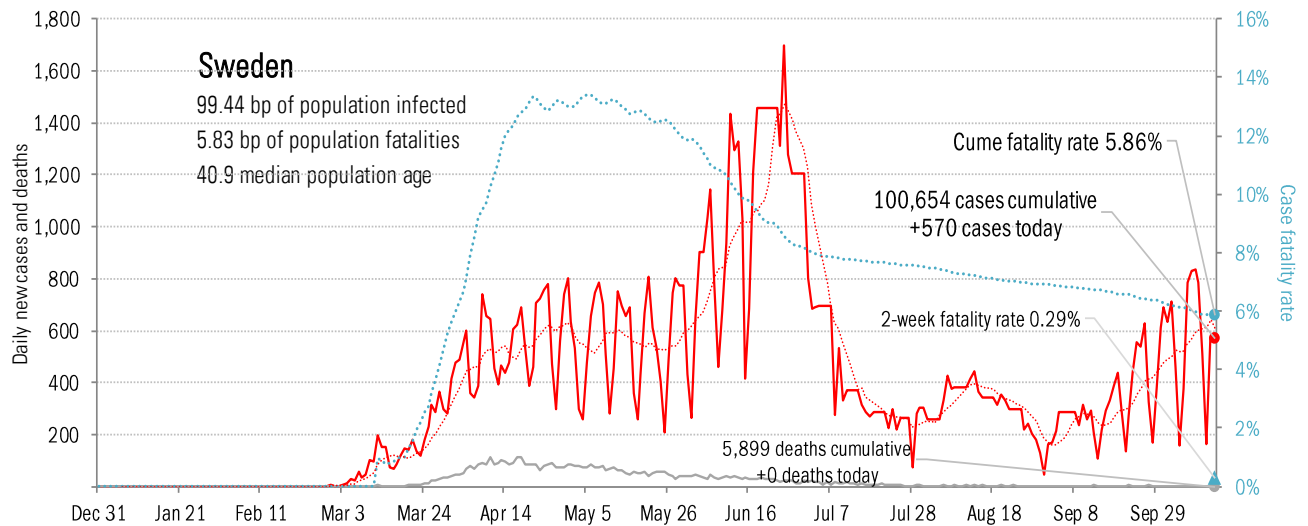
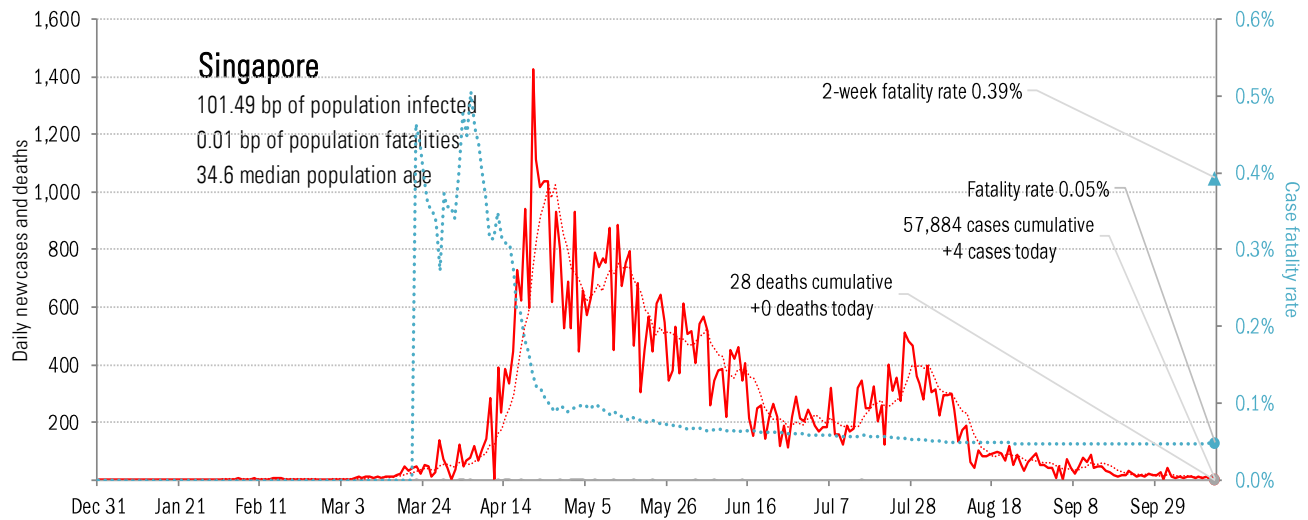
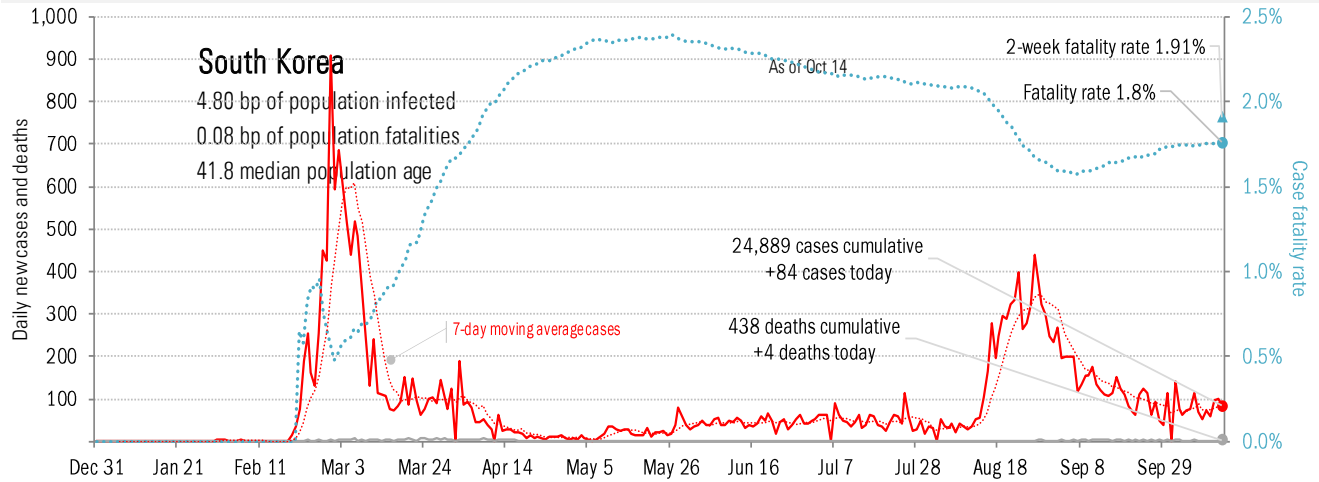
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



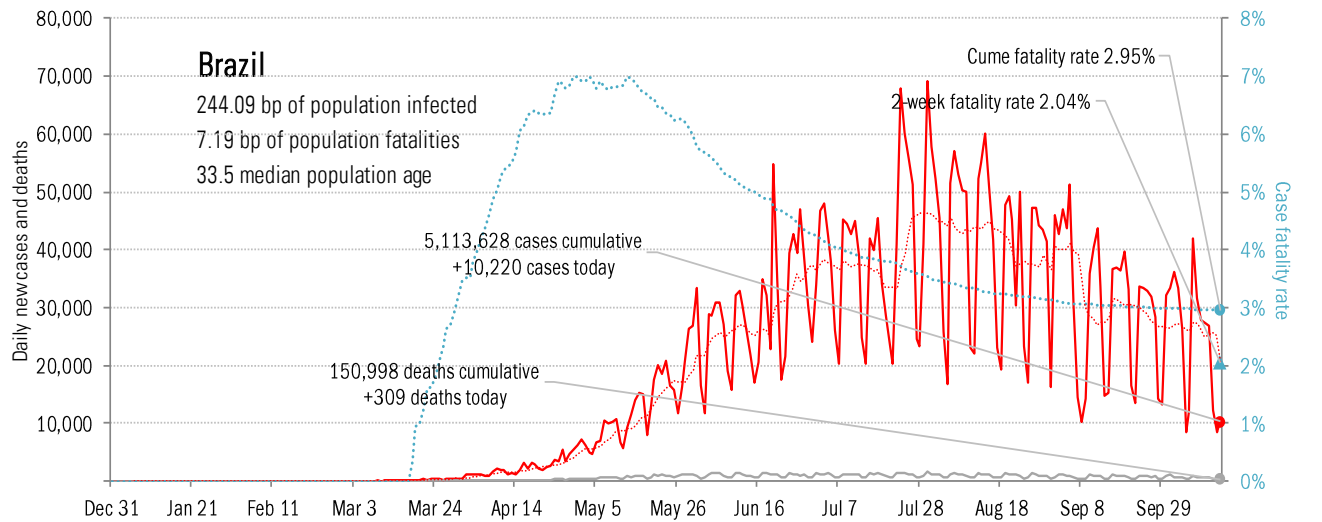
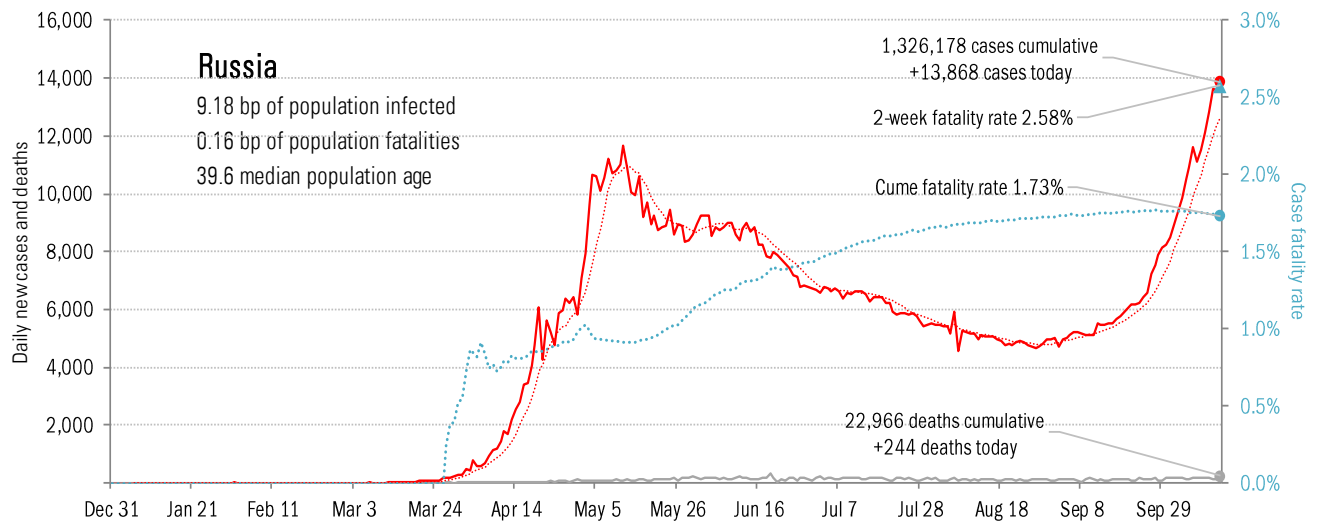
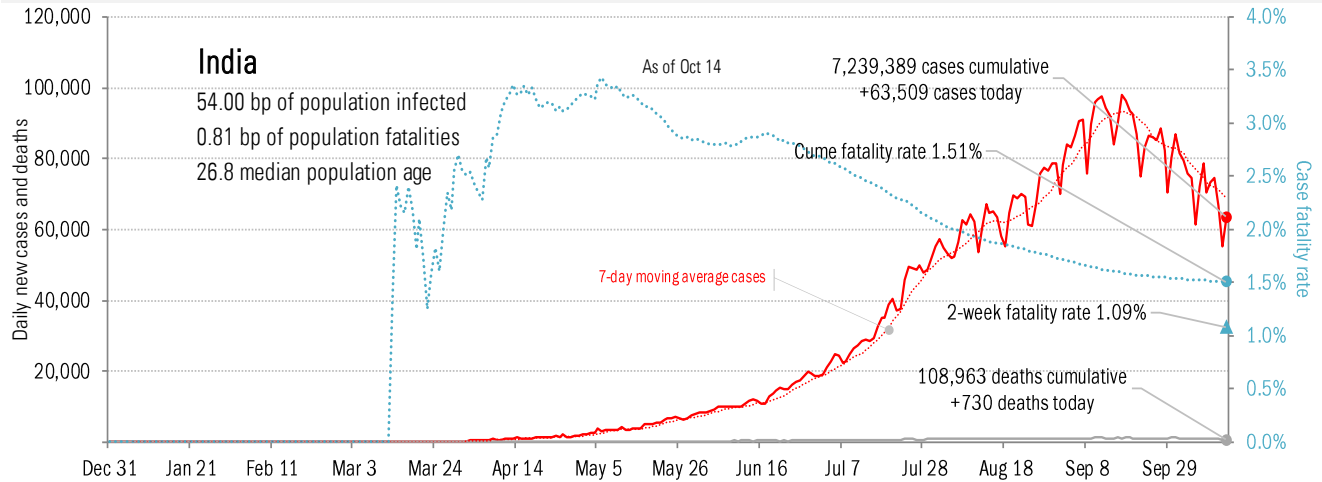
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



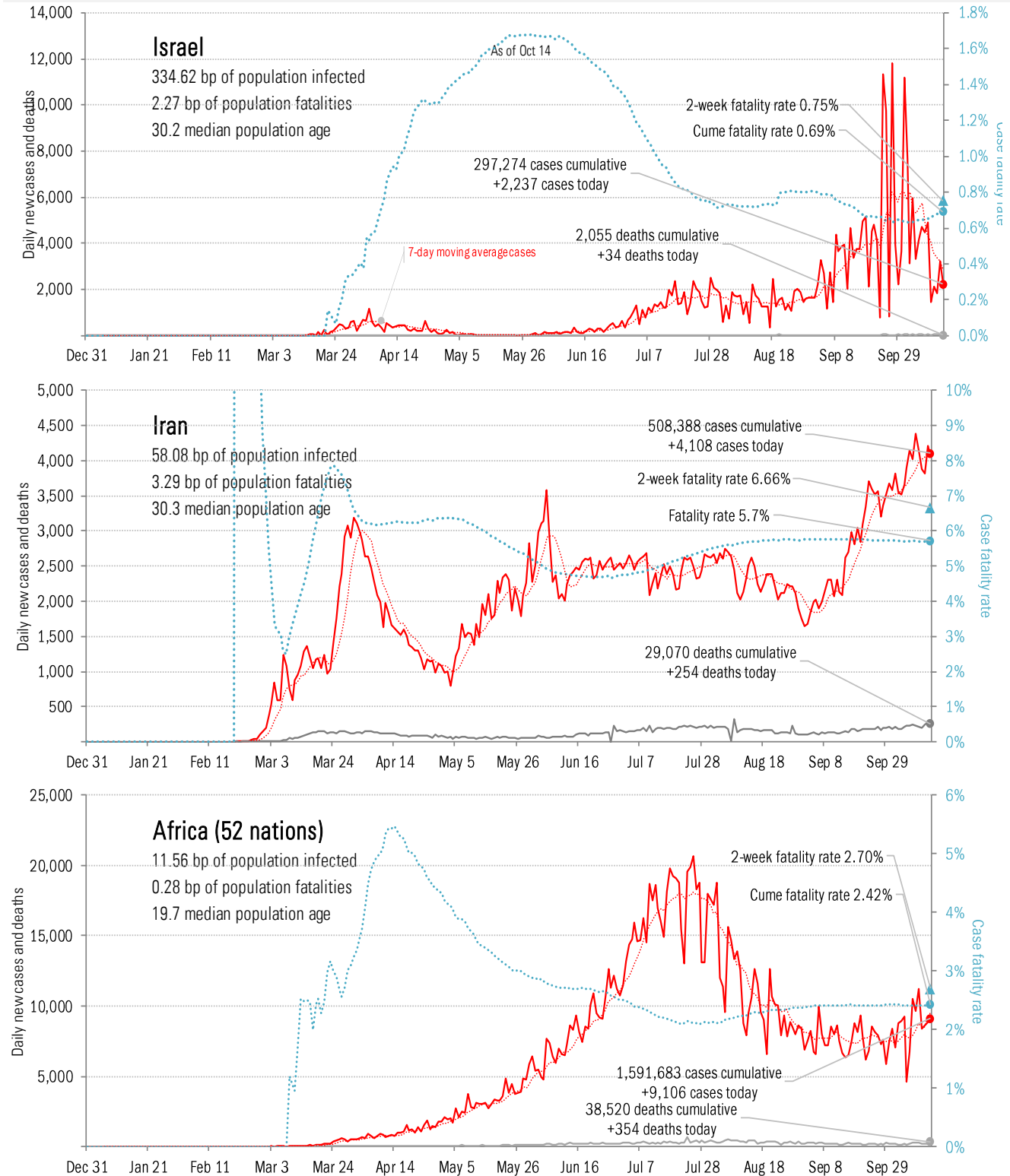
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations