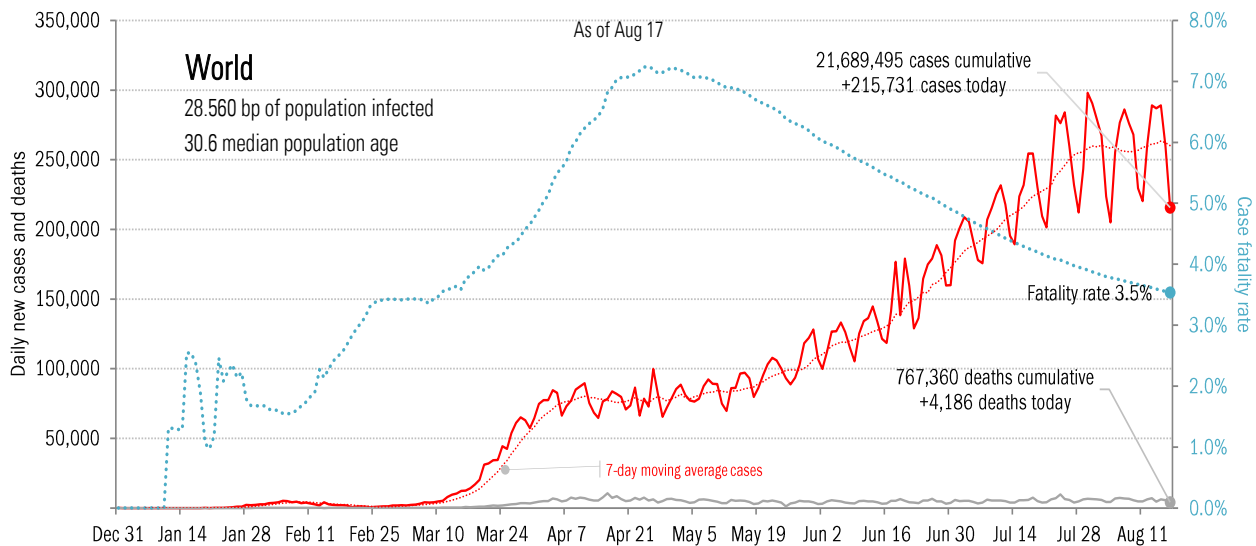
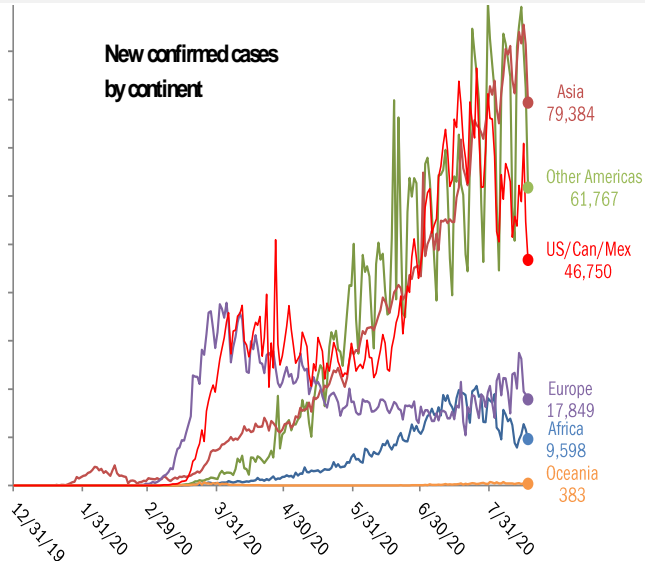


Data Insights: Covid-2019 Monitor

Monday, August 17, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+57,981	India	+941
US	+42,104	Brazil	+620
Brazil	+23,101	US	+571
Colombia	+11,643	Colombia	+287
Peru	+10,143	Mexico	+214
Argentina	+6,663	Peru	+206
Russia	+4,969	South_Africa	+162
Mexico	+4,448	Iran	+147
Iraq	+4,348	Argentina	+92
South_Africa	+3,692	Indonesia	+79
+169,092		+3,319	
World	+215,731	World	+4,186
Top ten	78%	Top ten	79%



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

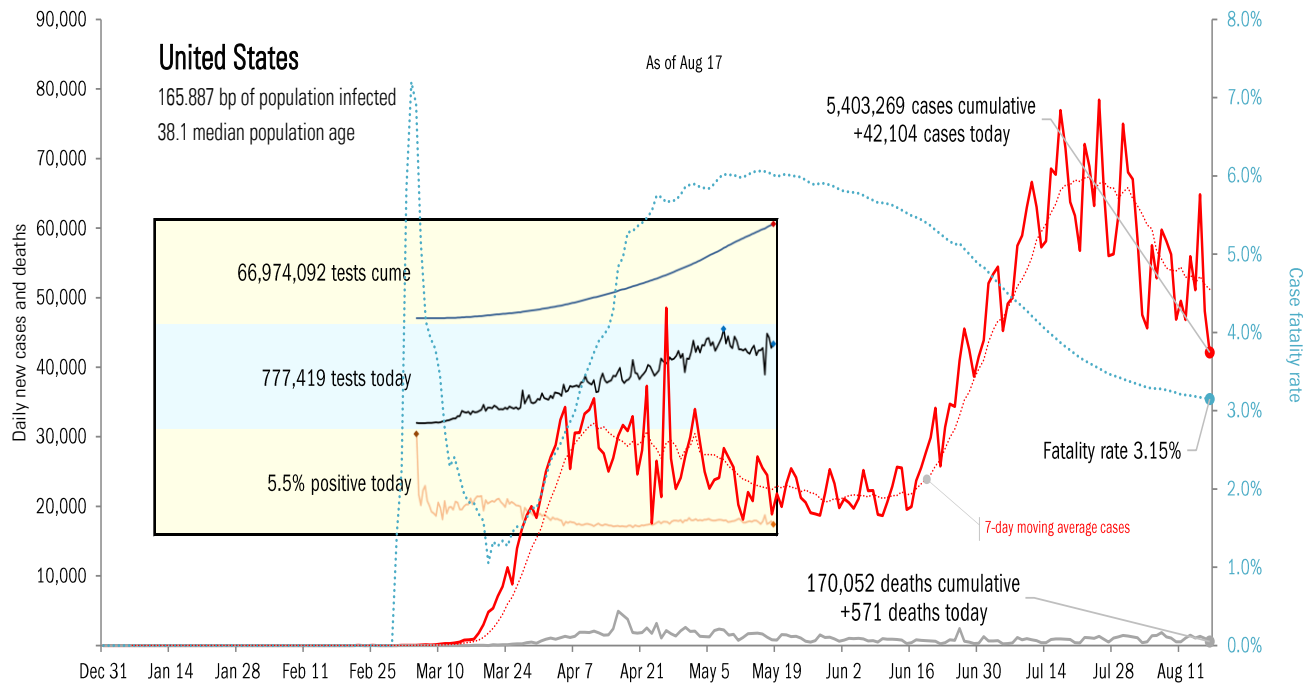
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
CA	+7,873	TX	+143	FL	+267	CA	621,562	NY	25,250	NY	89,995
TX	+6,744	FL	+107	IN	+63	FL	573,416	NJ	15,912	FL	34,341
FL	+3,779	CA	+77	GA	+59	TX	535,582	CA	11,224	NJ	22,206
TN	+1,961	LA	+77	MD	+58	NY	425,508	TX	9,983	GA	22,087
GA	+1,862	GA	+33	TN	+34	GA	237,030	FL	9,587	AZ	20,755
IL	+1,562	MO	+21	MN	+29	IL	207,413	MA	8,829	VA	14,967
NC	+1,246	TN	+21	WI	+29	AZ	193,537	IL	7,955	MD	13,614
LA	+1,181	IL	+18	CH	+26	NJ	187,455	PA	7,468	AL	12,607
MO	+1,078	AZ	+14	WA	+24	NC	144,952	MI	6,592	CH	12,236
VA	+937	MA	+11	OK	+15	LA	137,918	GA	4,702	MA	12,173
+28,223		+522		+604		3,264,373		107,502		254,981	
All states	+43,008	All states	+619	All states	+644	All states	5,379,370	All states	161,992	All states	347,664
Top ten	66%	Top ten	84%	Top ten	94%	Top ten	61%	Top ten	66%	Top ten	73%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CA	-4,741	FL	-97	AZ	-320	TX	+6,306
FL	-2,573	TX	-95	FL	-239	PA	+1,759
TX	-1,501	CA	-74	VA	-187	CH	+908
GA	-1,411	GA	-63	AL	-151	WI	+810
MI	-581	AZ	-55	GA	-151	MN	+739



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

Recommended reading

[Scientists See Signs of Lasting Immunity to Covid-19, Even After Mild Infections](#)

Katherine J. Wu
New York Times
August 16, 2020

[Detection, prevalence, and duration of humoral responses to SARS-CoV-2 under conditions of limited population exposure.](#)

Tyler J Ripperger et al.
medRxiv
August 16, 2020

[Evidence for sustained mucosal and systemic antibody responses to SARS-CoV-2 antigens in COVID-19 patients](#)

Baweleta Isho et al.
medRxiv
August 4, 2020

[Dynamics and significance of the antibody response to SARS-CoV-2 infection](#)

Anita S. Iyer et al.
National Institutes of Health
July 20, 2020

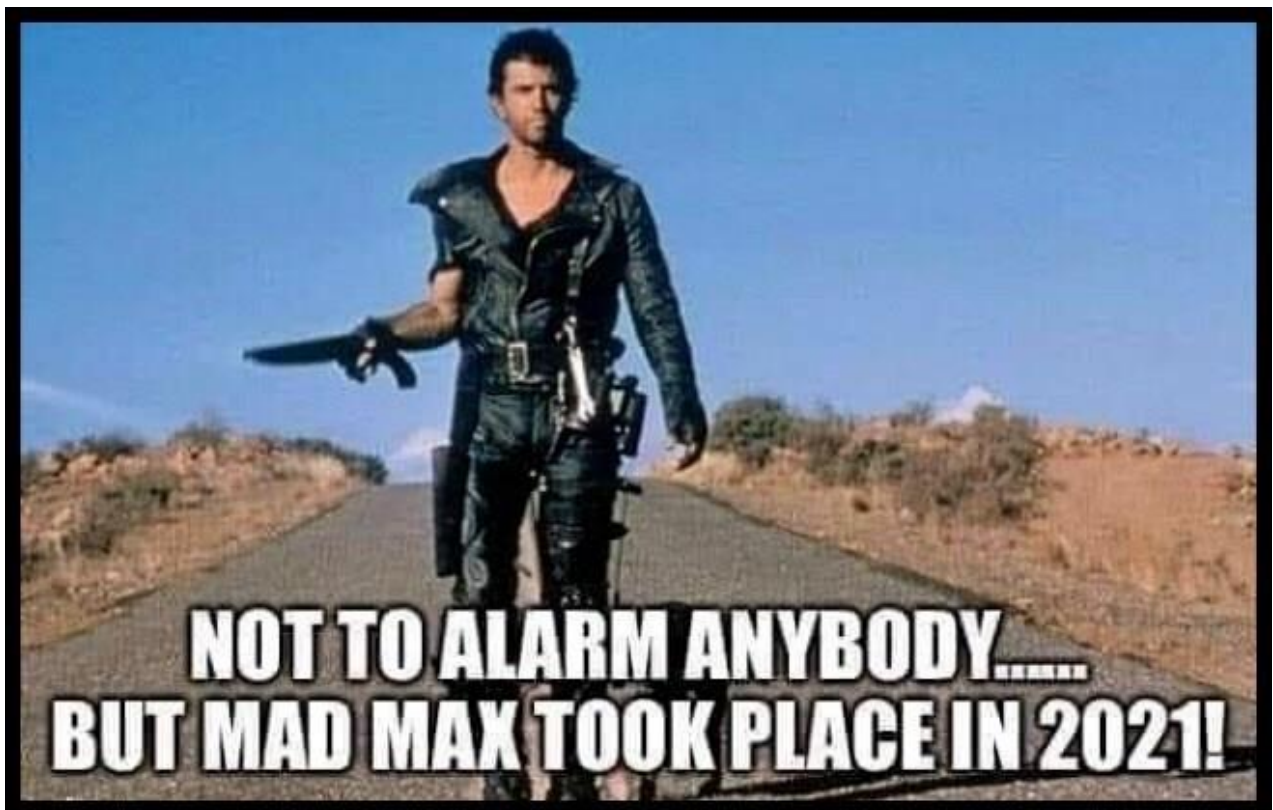
[Functional SARS-CoV-2-specific immune memory persists after mild COVID-19](#)

Lauren B Rodda et al.
medRxiv
August 15, 2020

[The Plan That Could Give Us Our Lives Back](#)

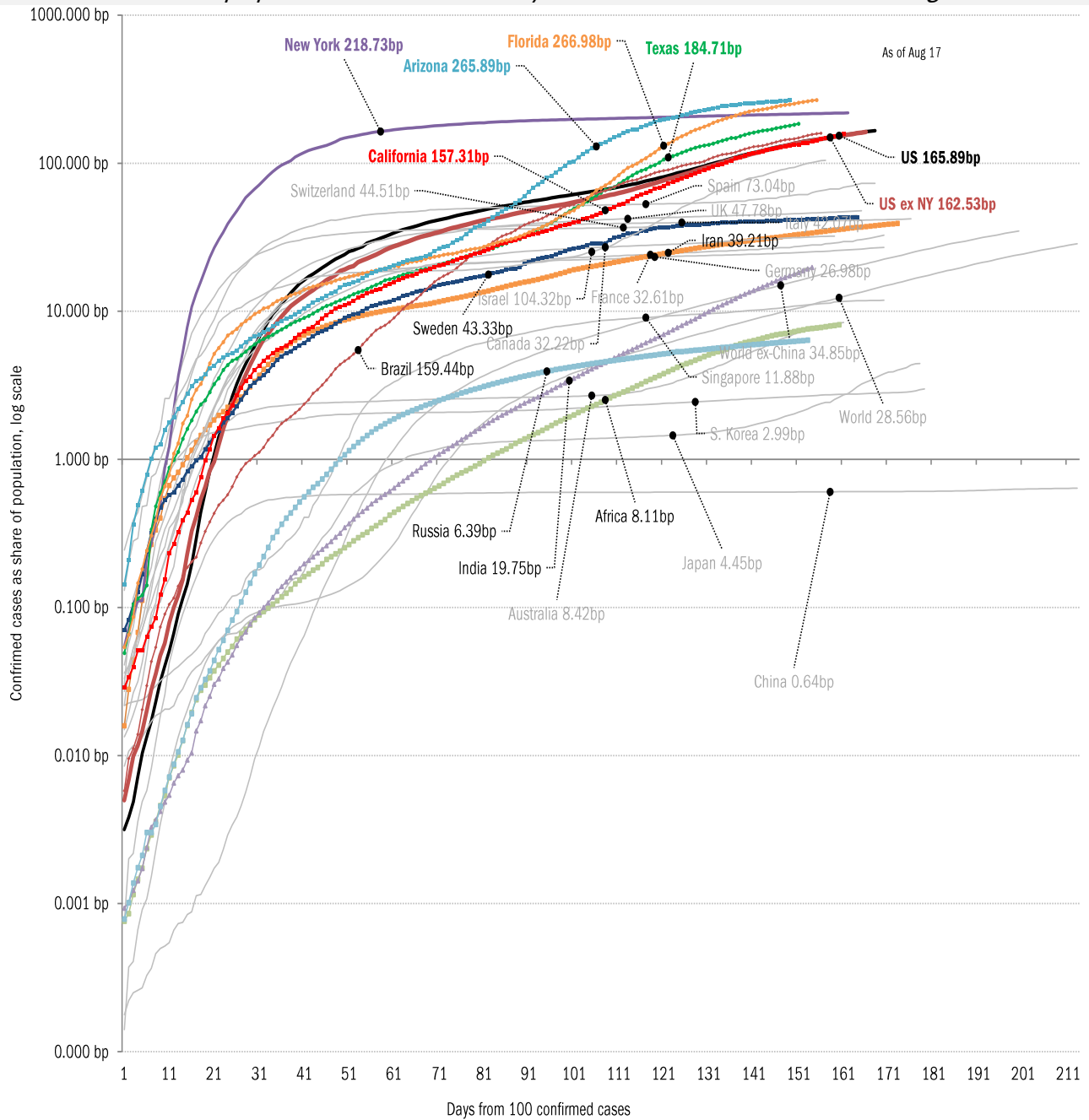
Robinson Meyer and Alexis C. Madrigal
The Atlantic
August 14, 2020

Meme of day



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

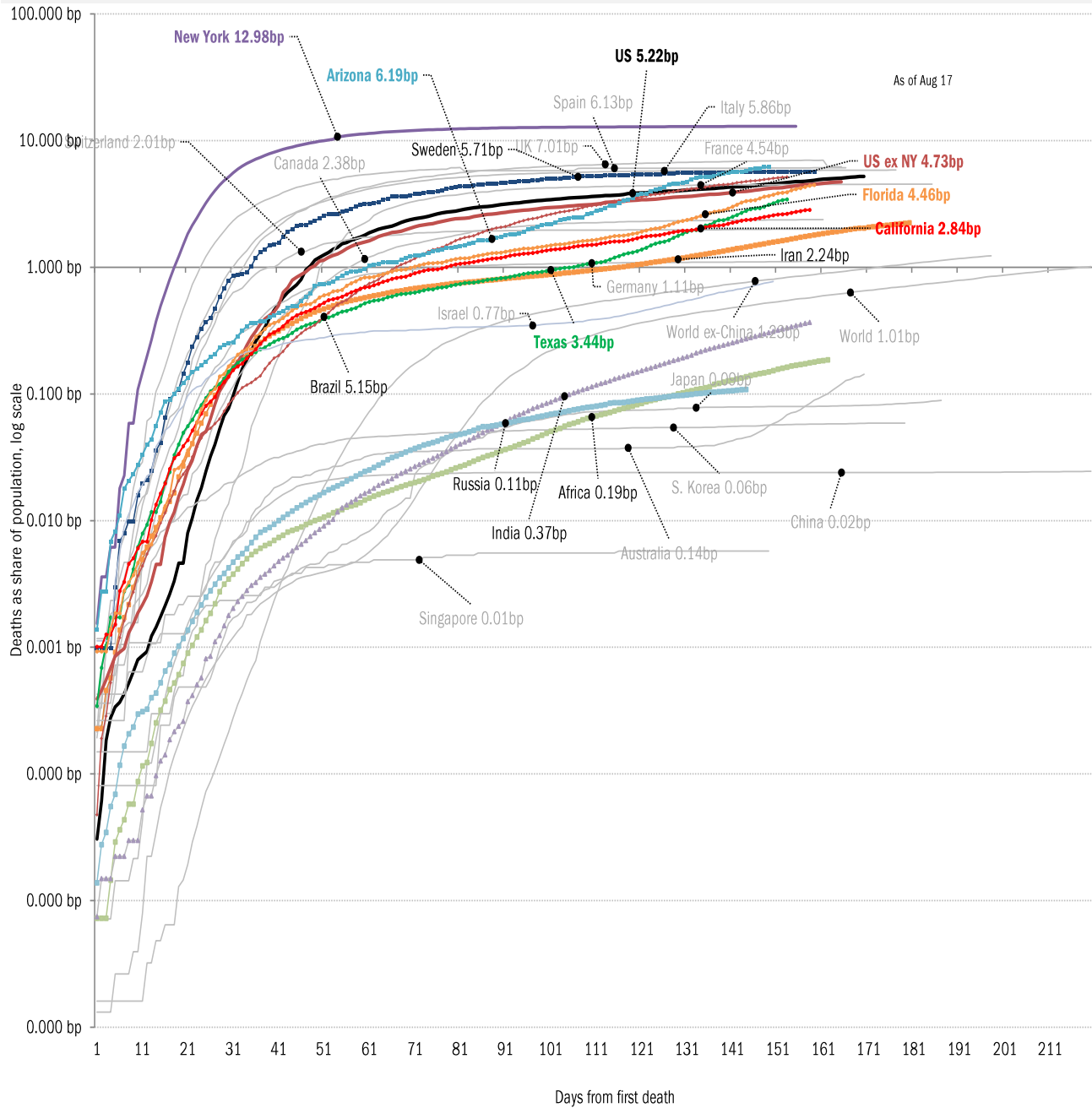
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

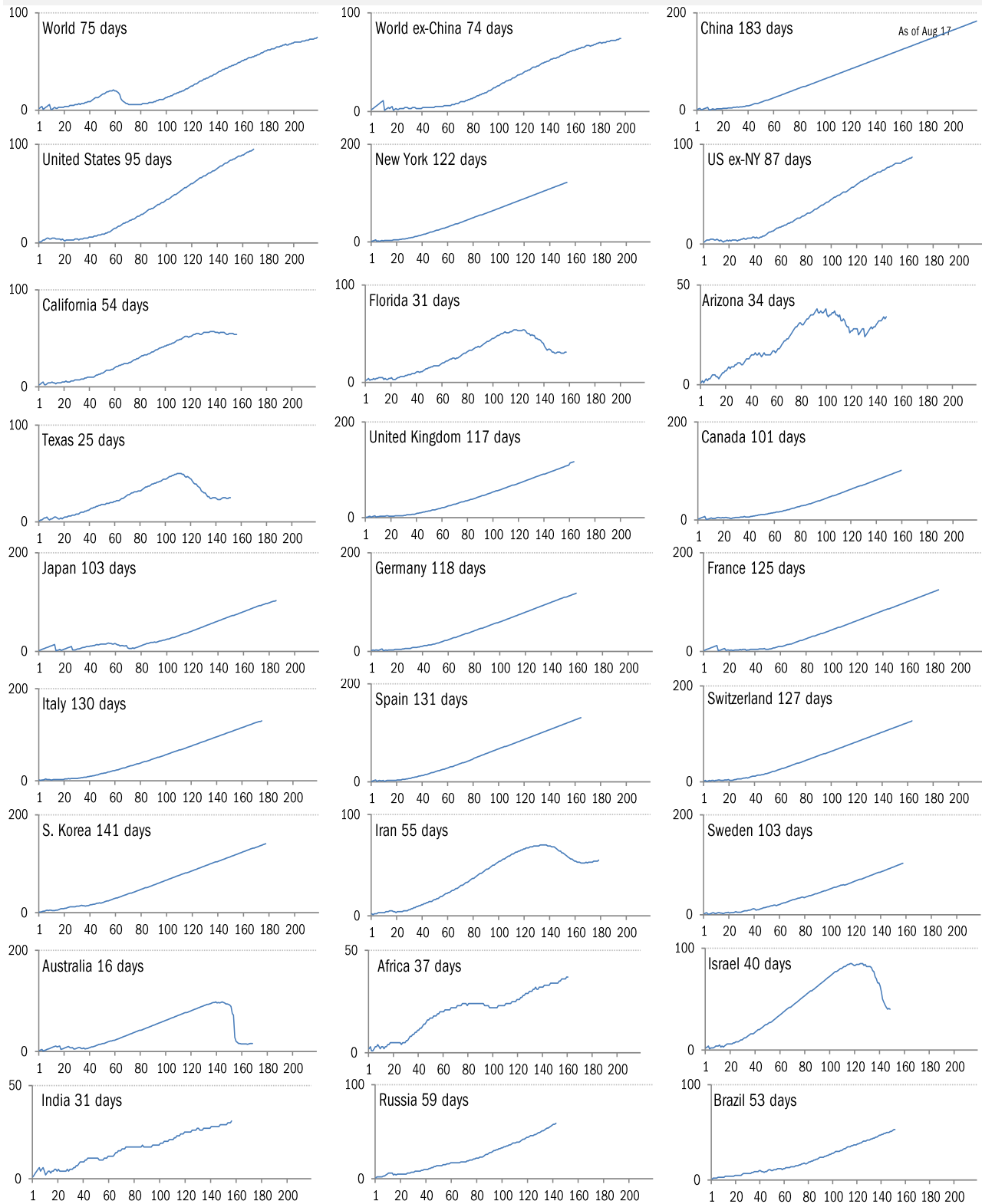
Share of deceased population from day of first fatality



Source: [ECDC](#), TrendMacro calculations

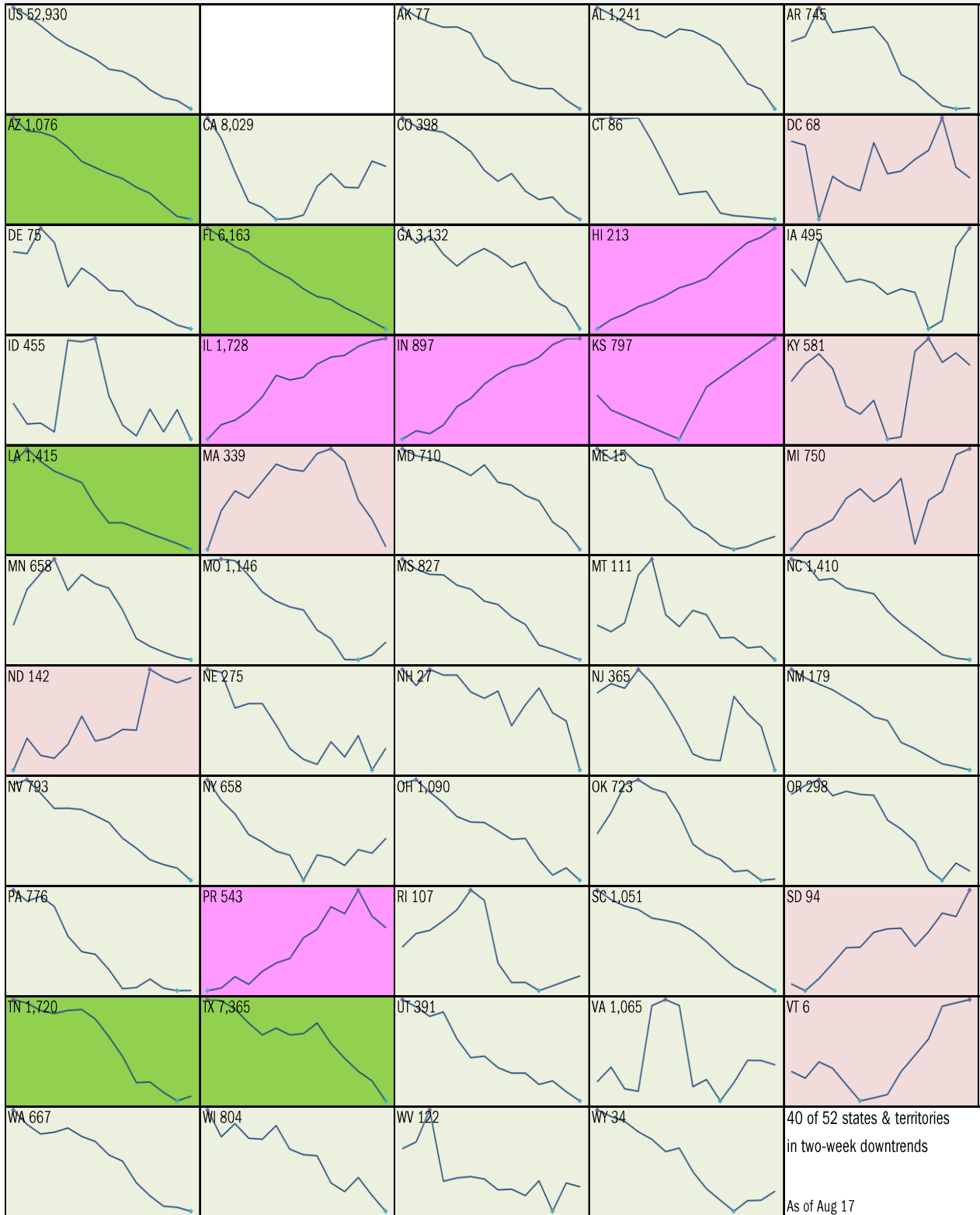
Our most reliable evidence of slowing exponential growth of Covid-2019

Vertical: number of days it takes to double deaths Horizontal: days from first death



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

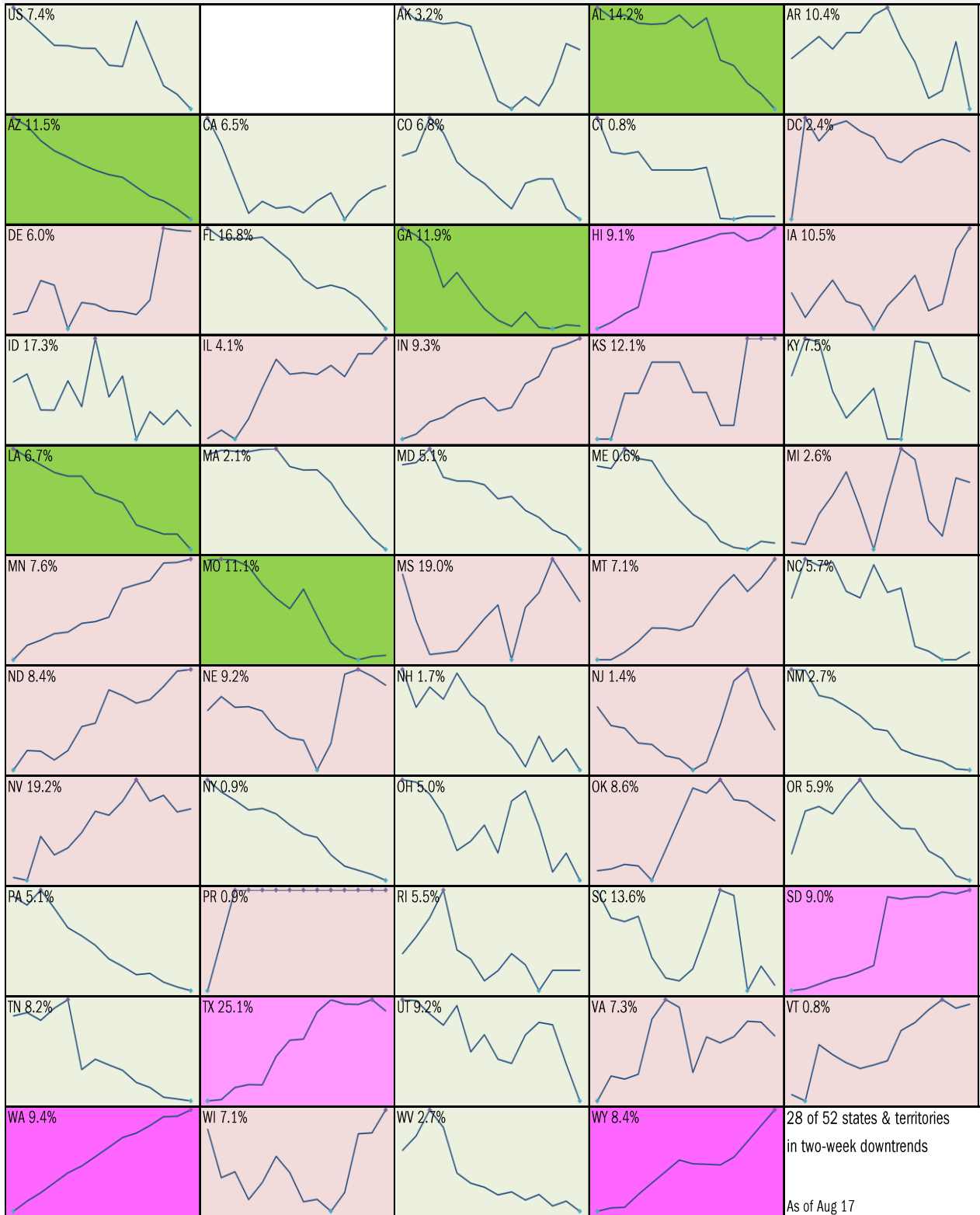


Source: [Covid Tracking Project](#), TrendMacro calculations

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



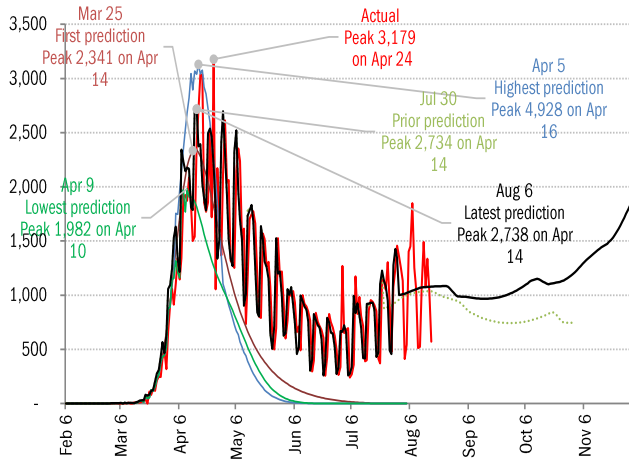
Source: [Covid Tracking Project](#), TrendMacro calculations

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

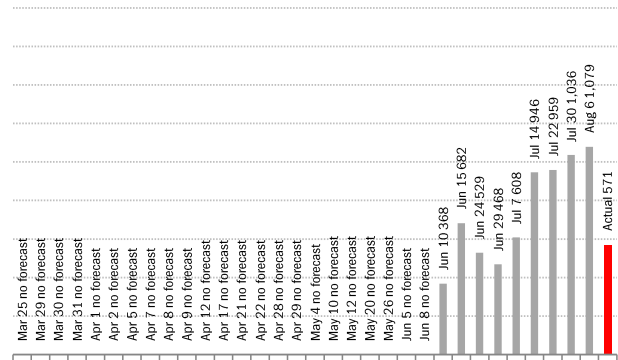
New daily fatalities

As of Aug 17

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

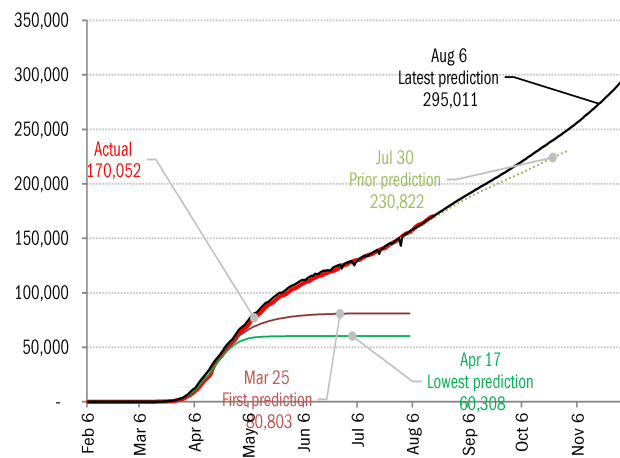


For this day, versus all model mean predictions

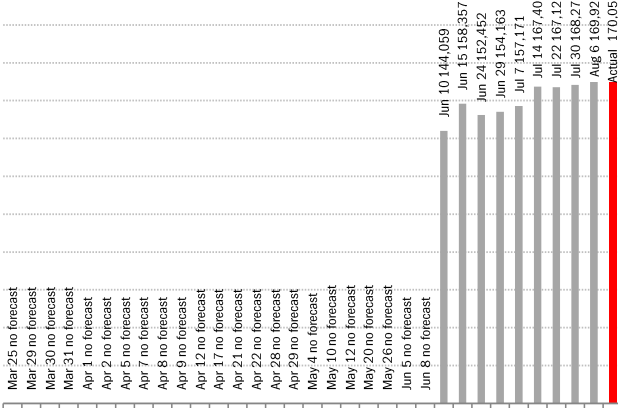


Cumulative fatalities

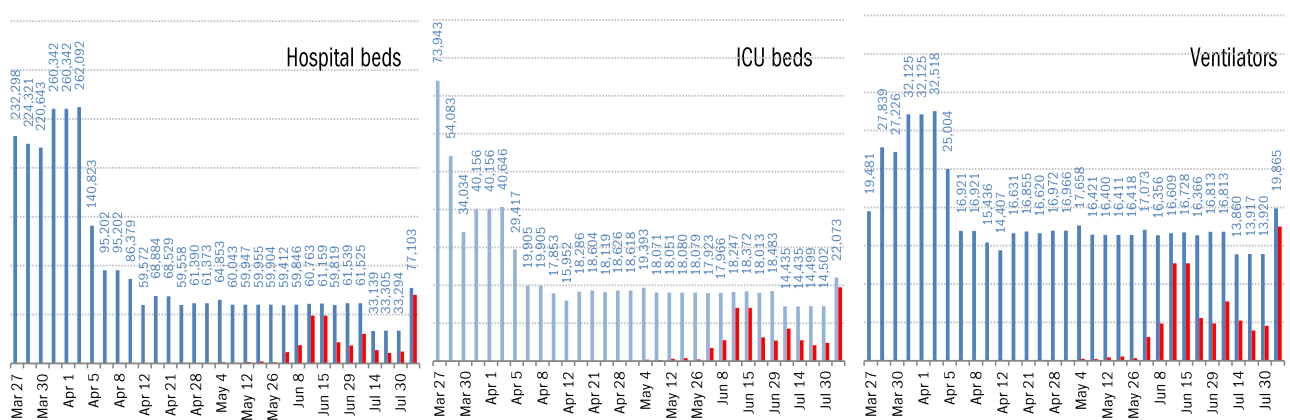
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

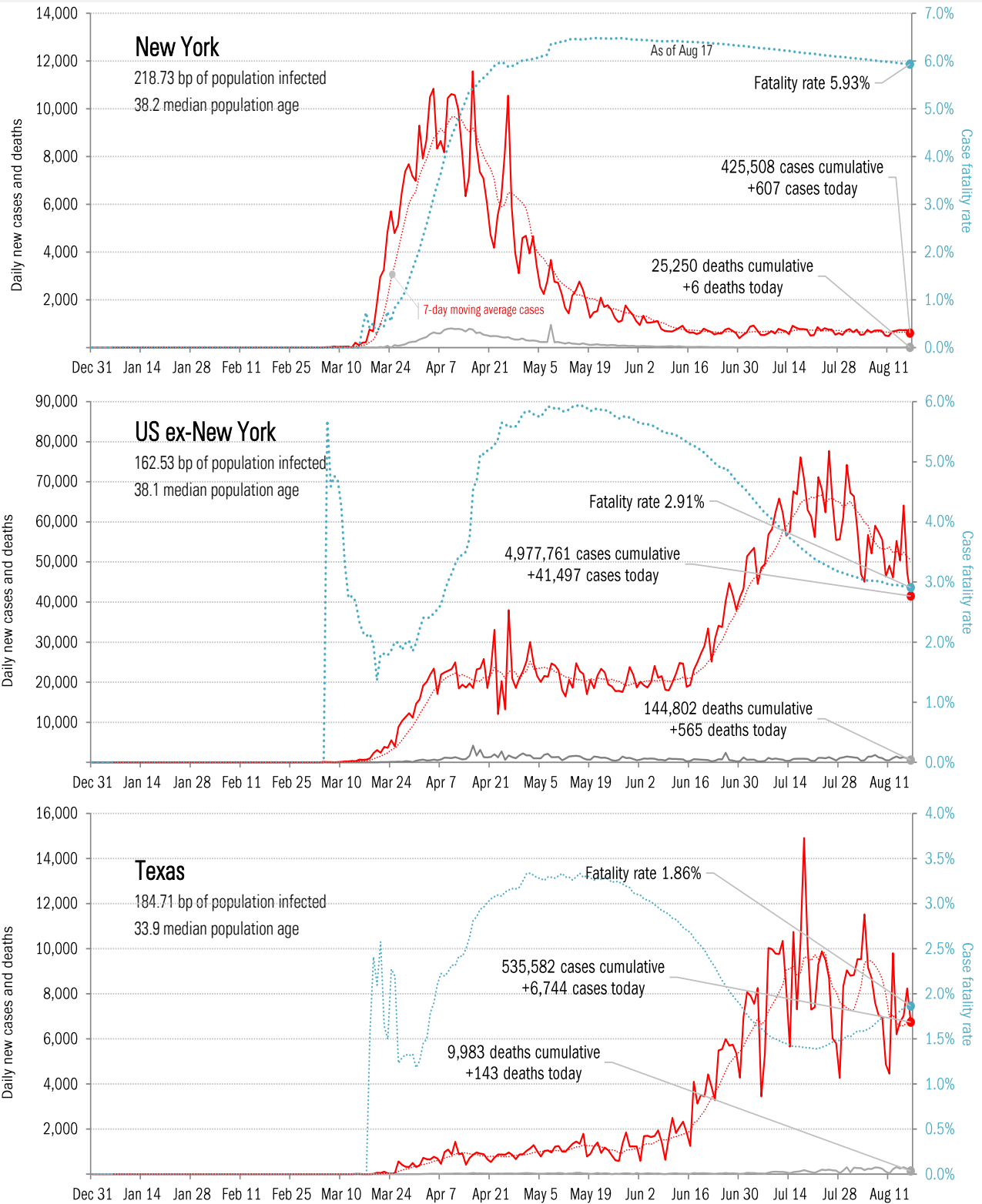


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



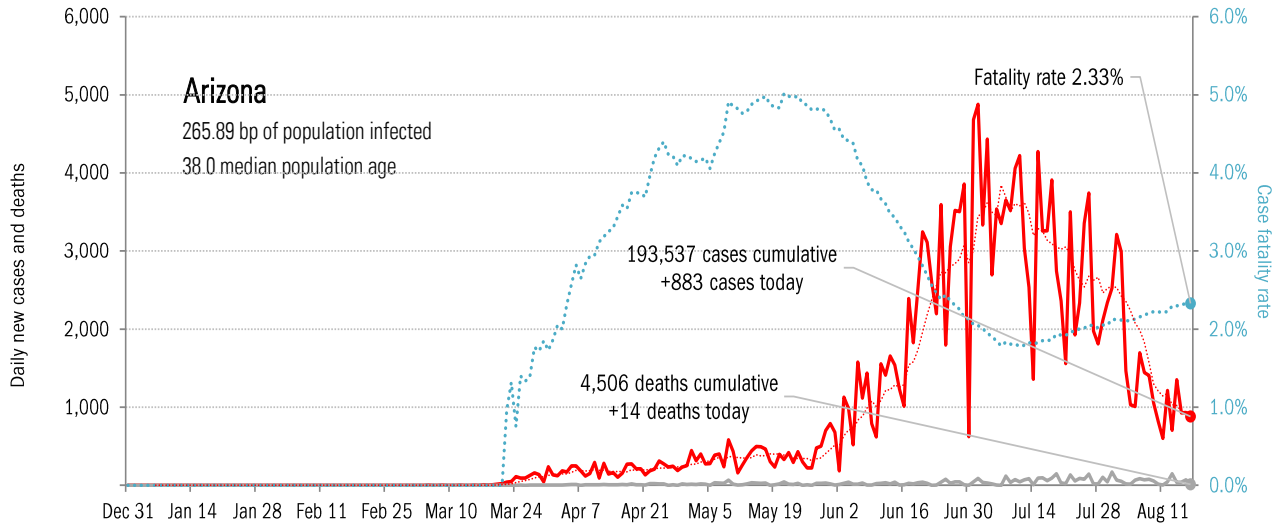
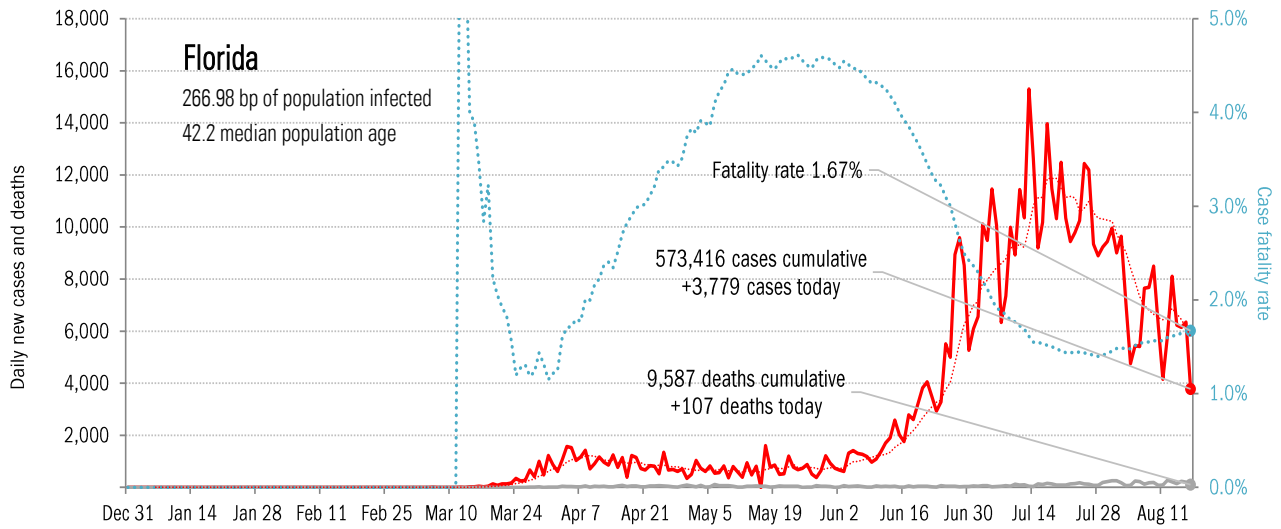
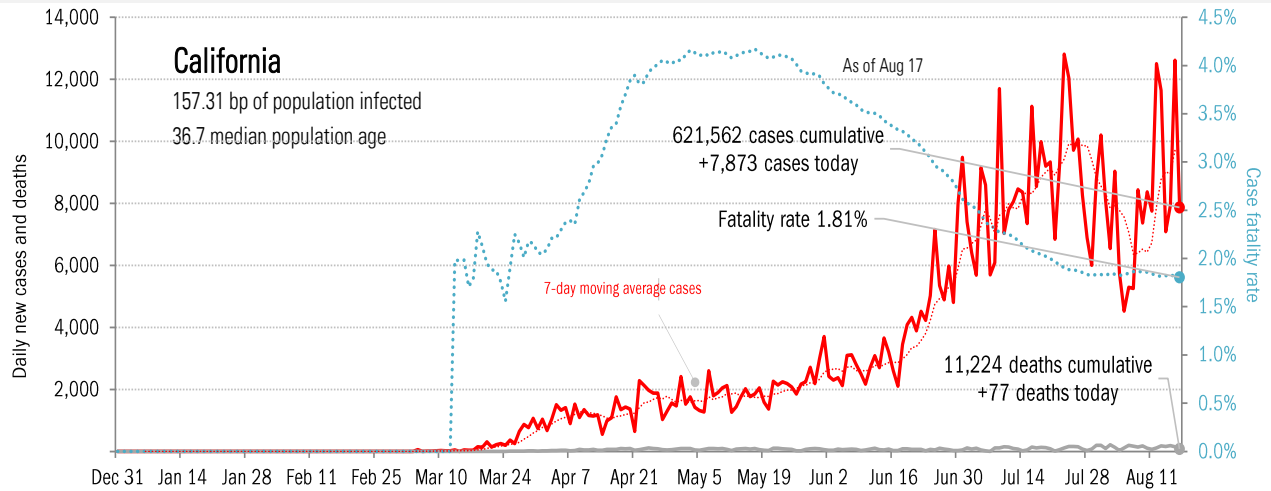
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



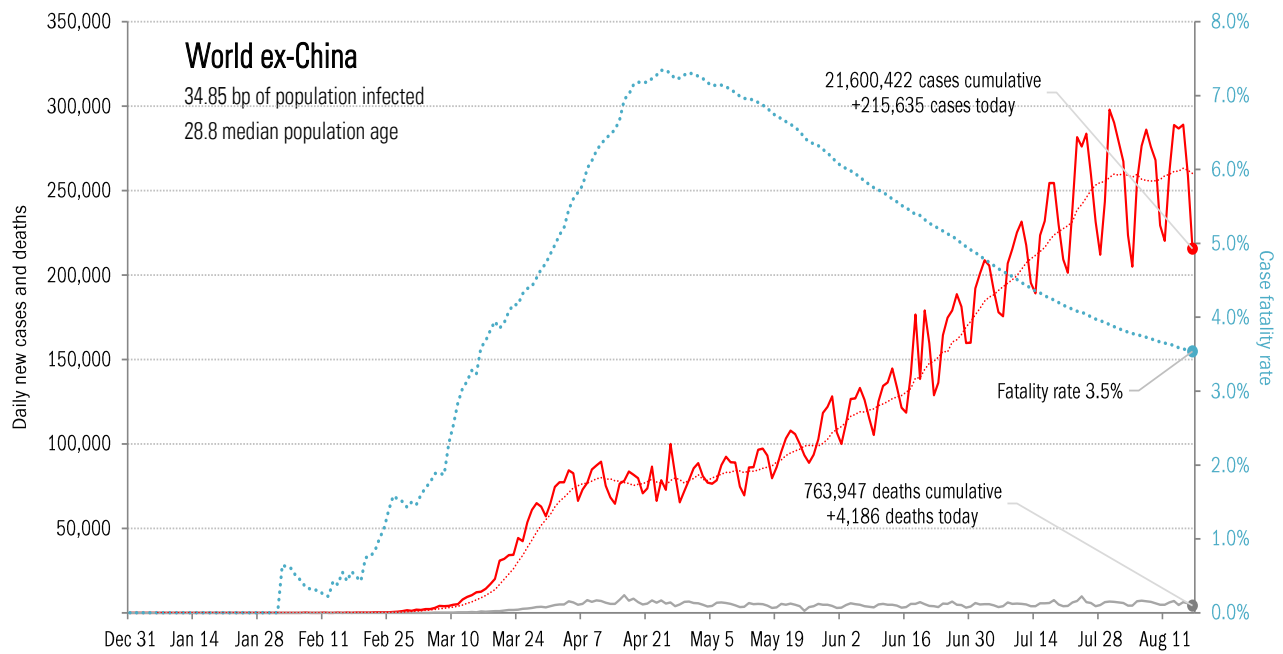
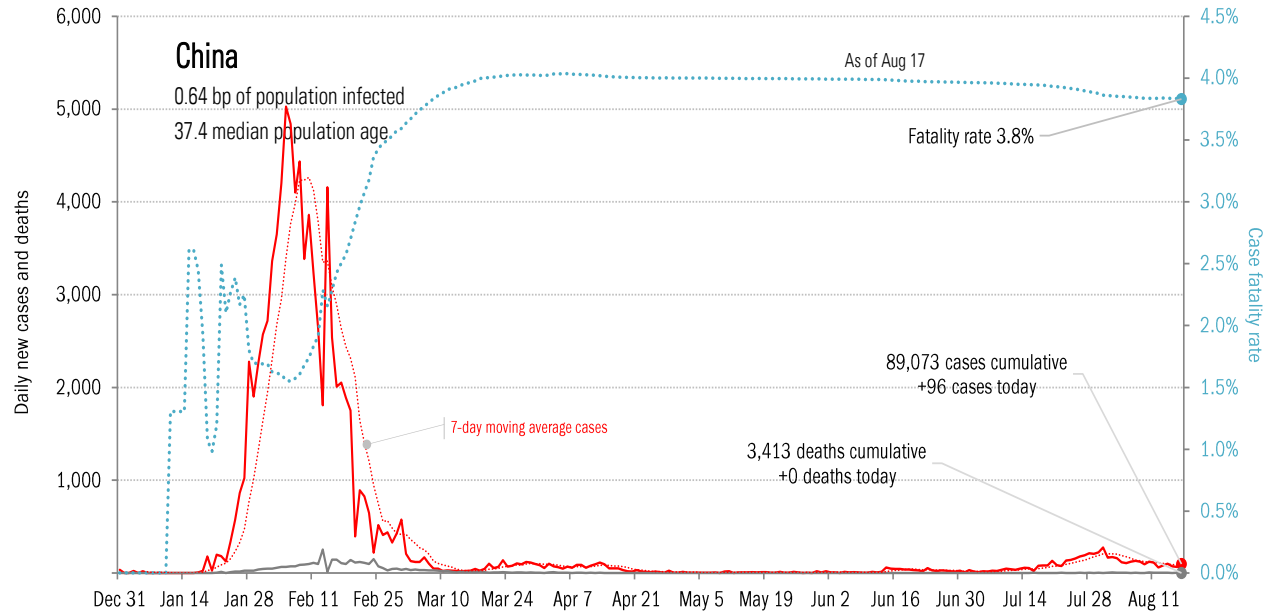
Source: [ECDC](#), TrendMacro calculations

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



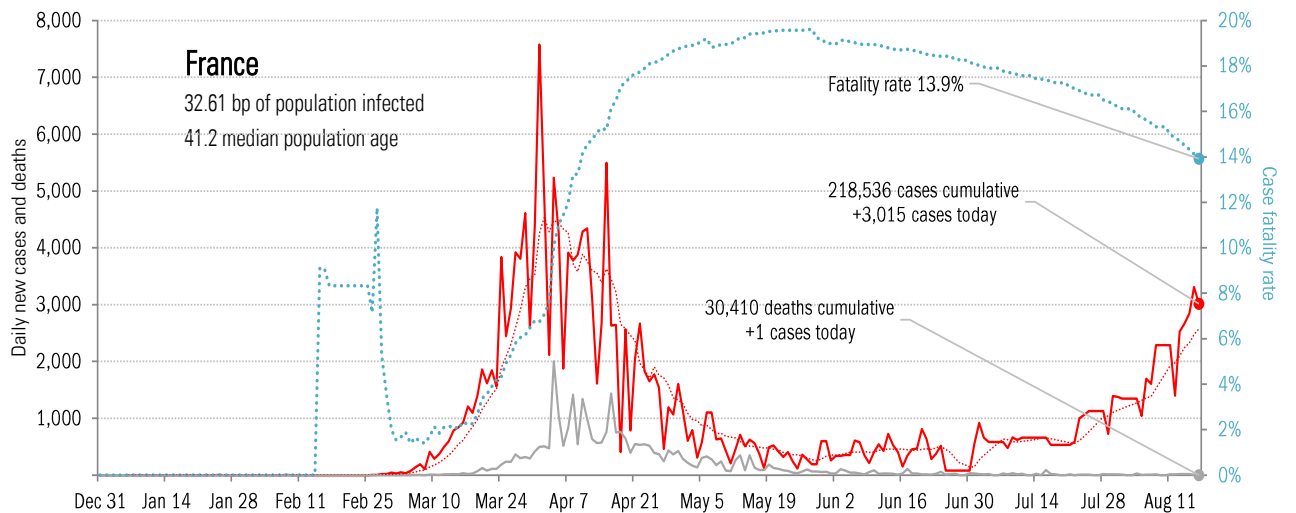
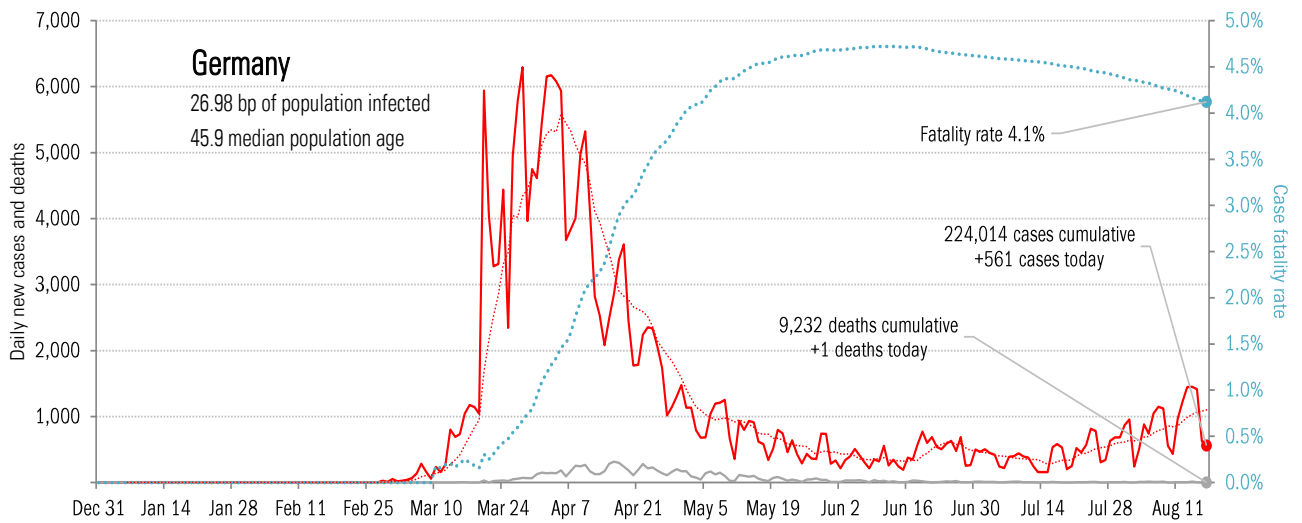
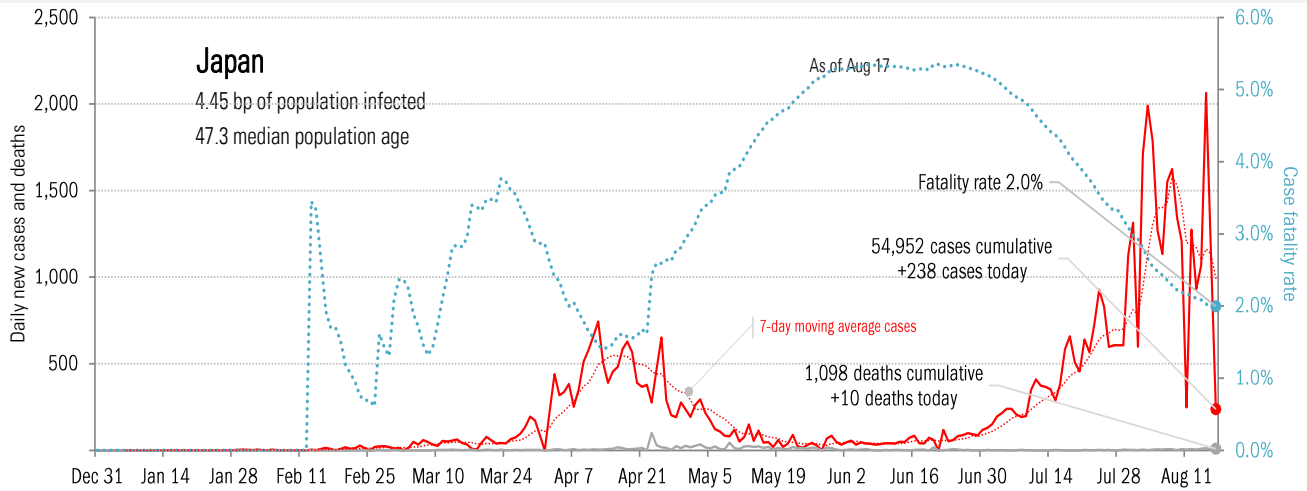
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



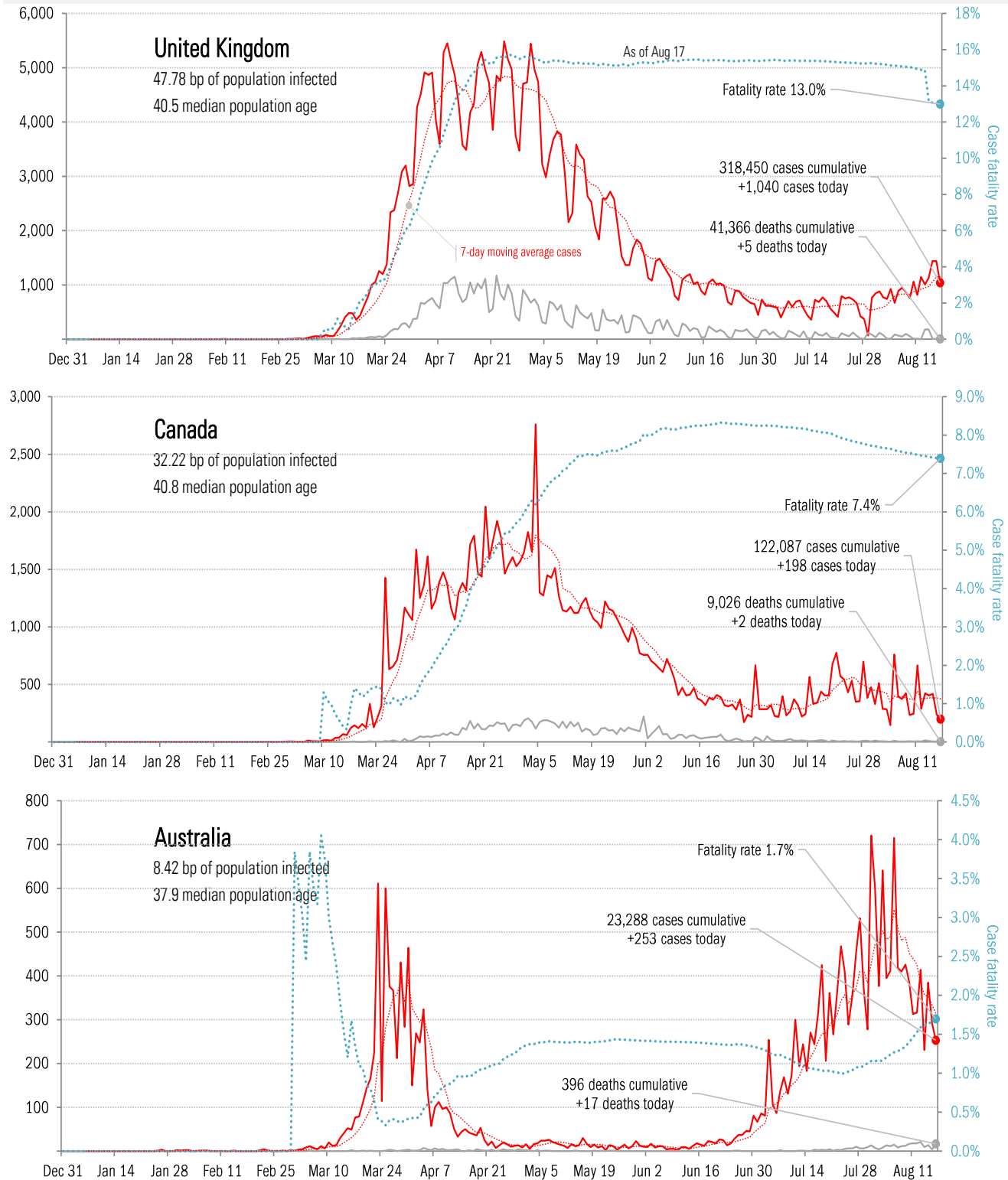
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



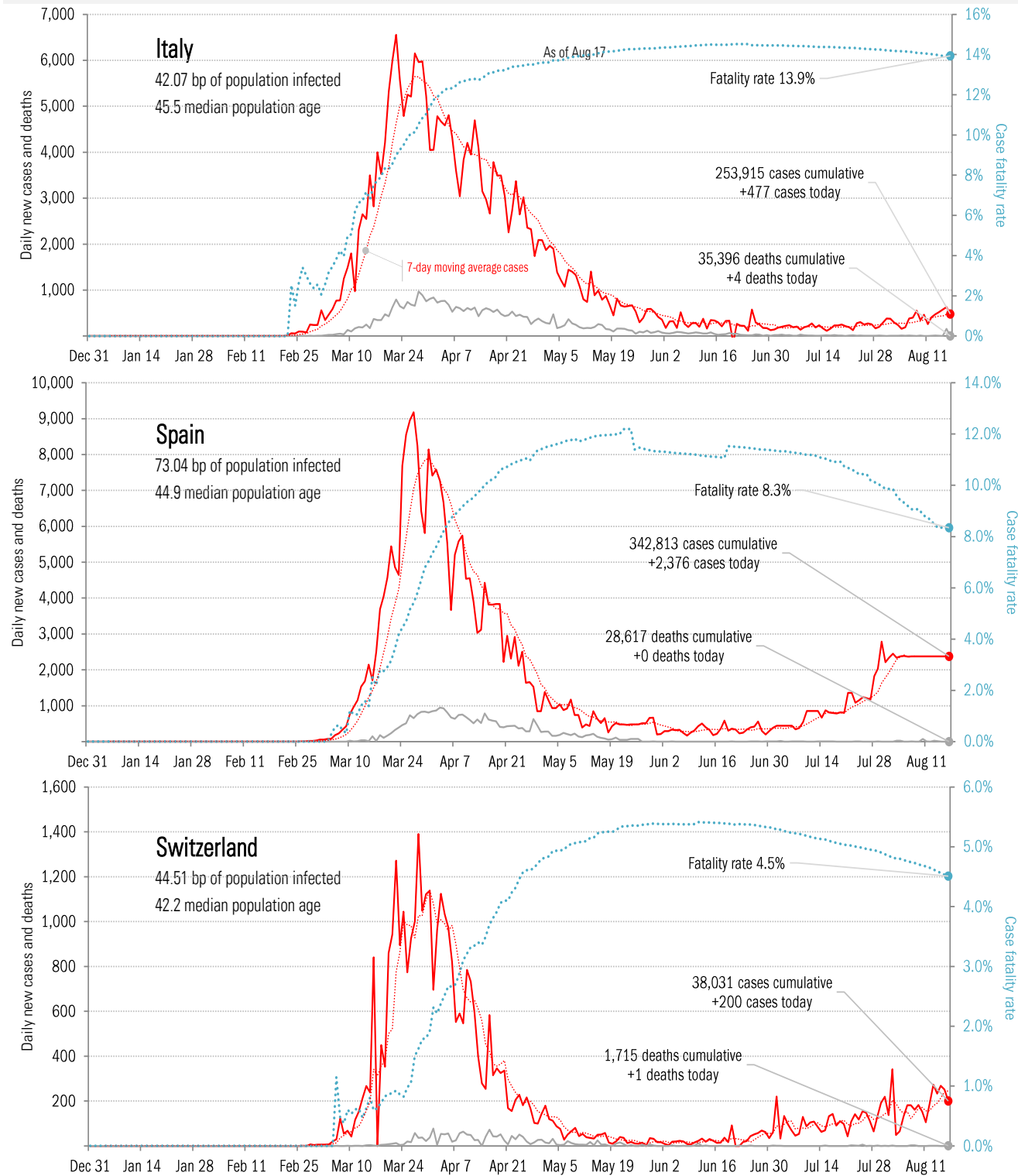
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



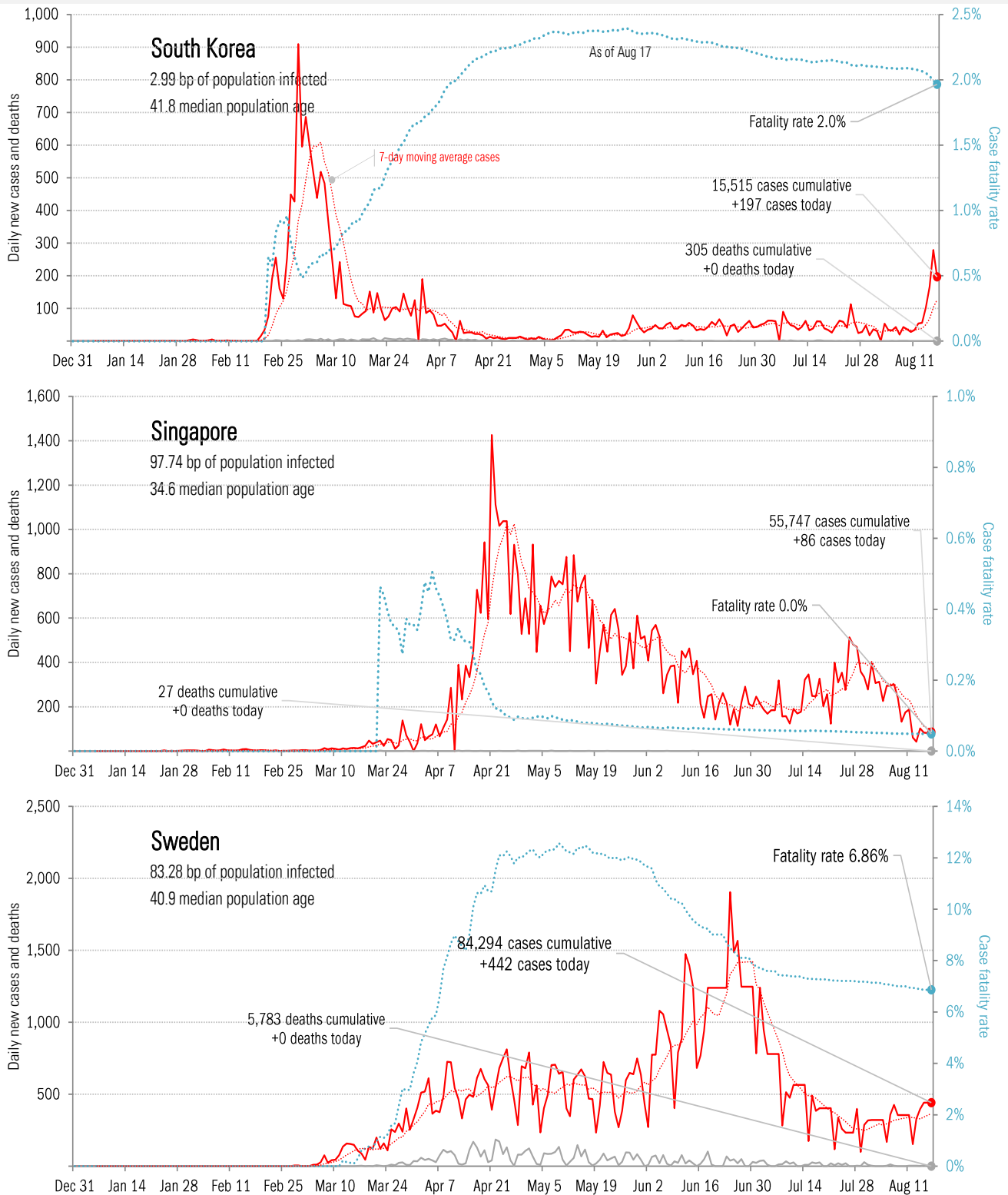
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



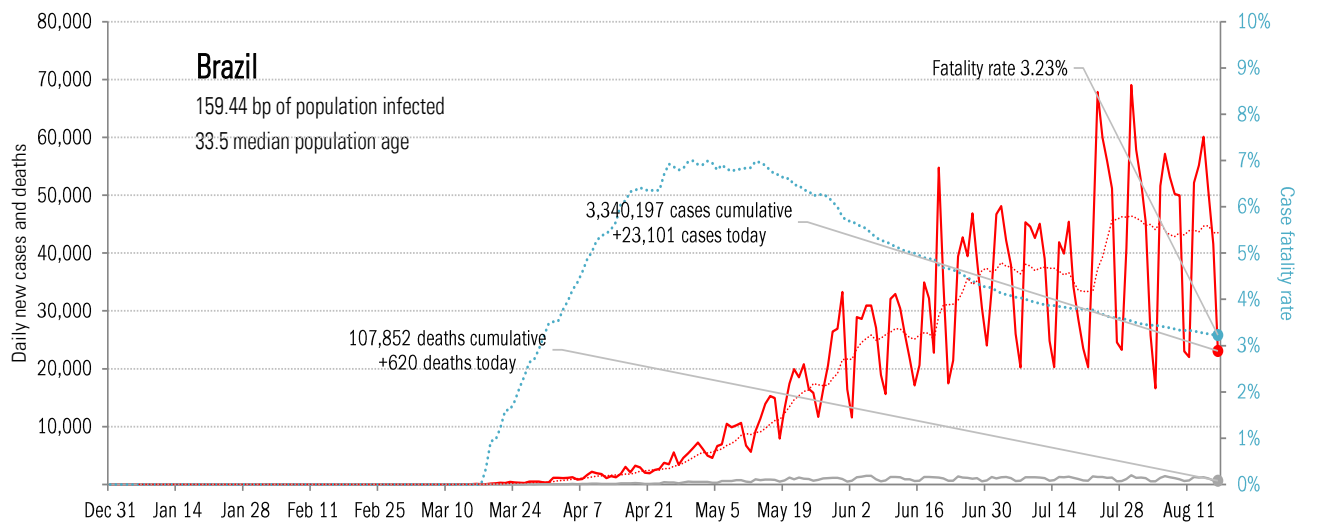
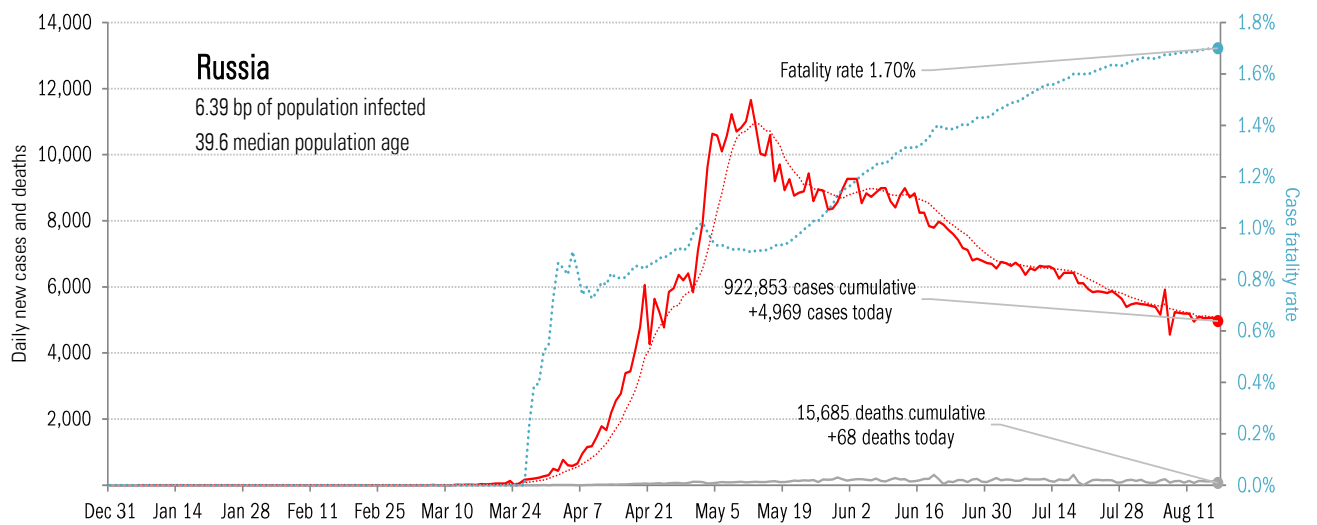
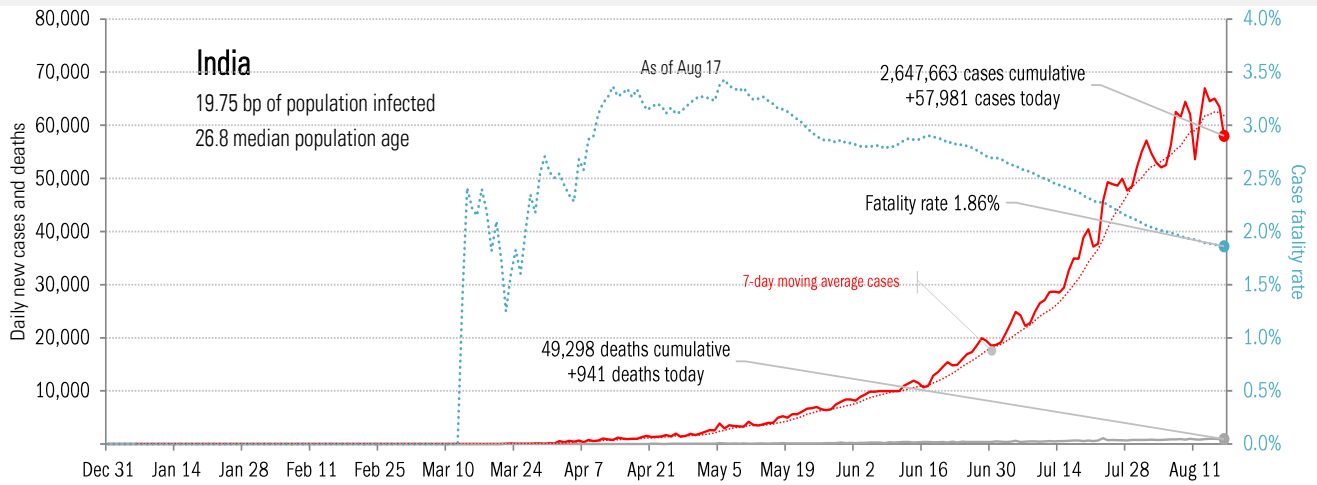
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



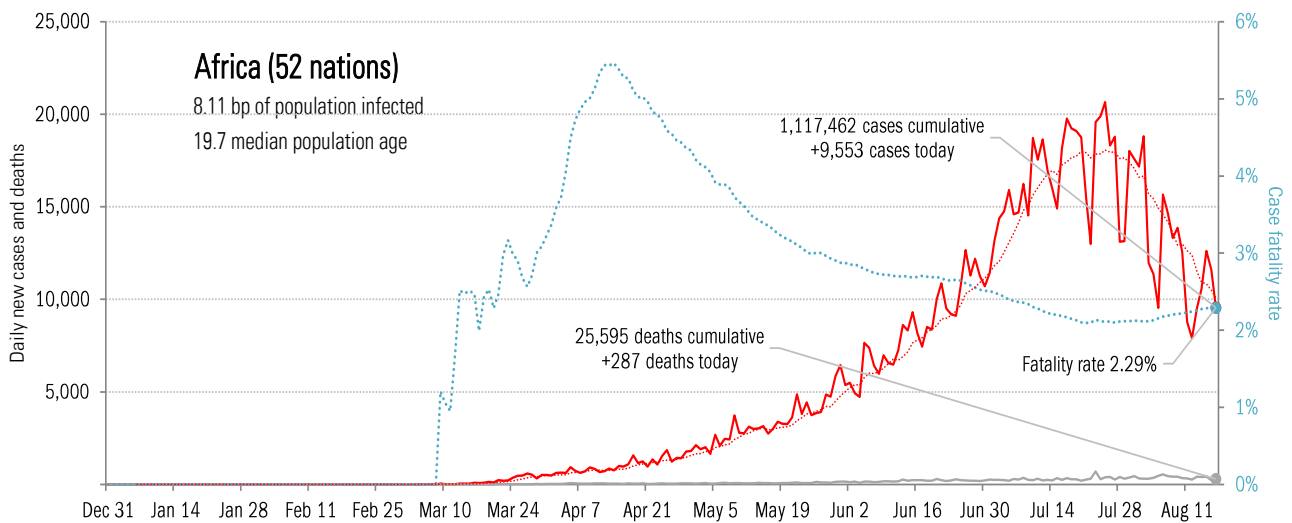
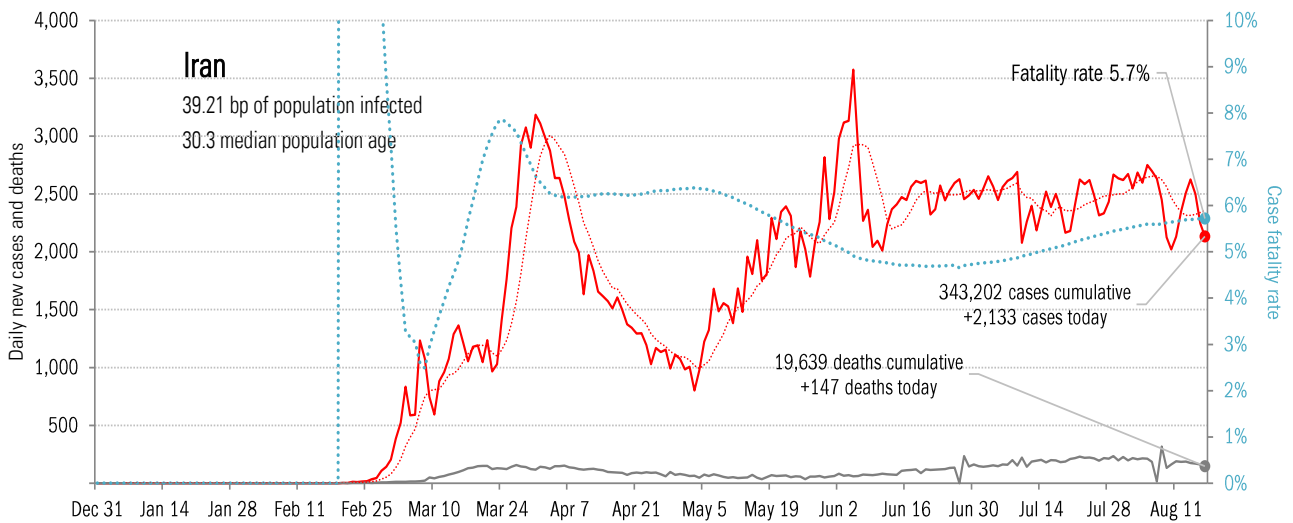
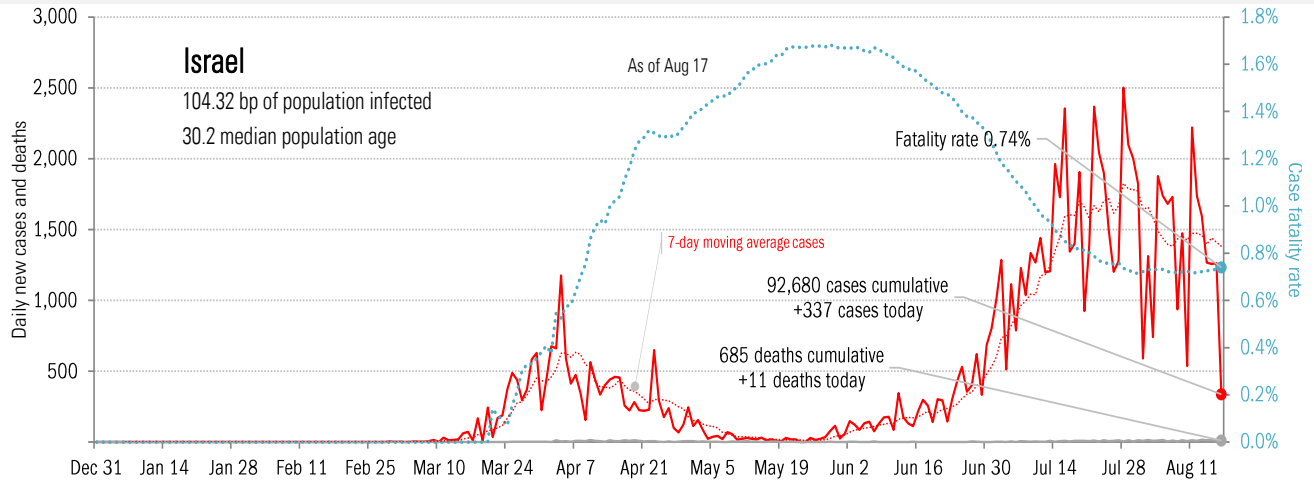
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations