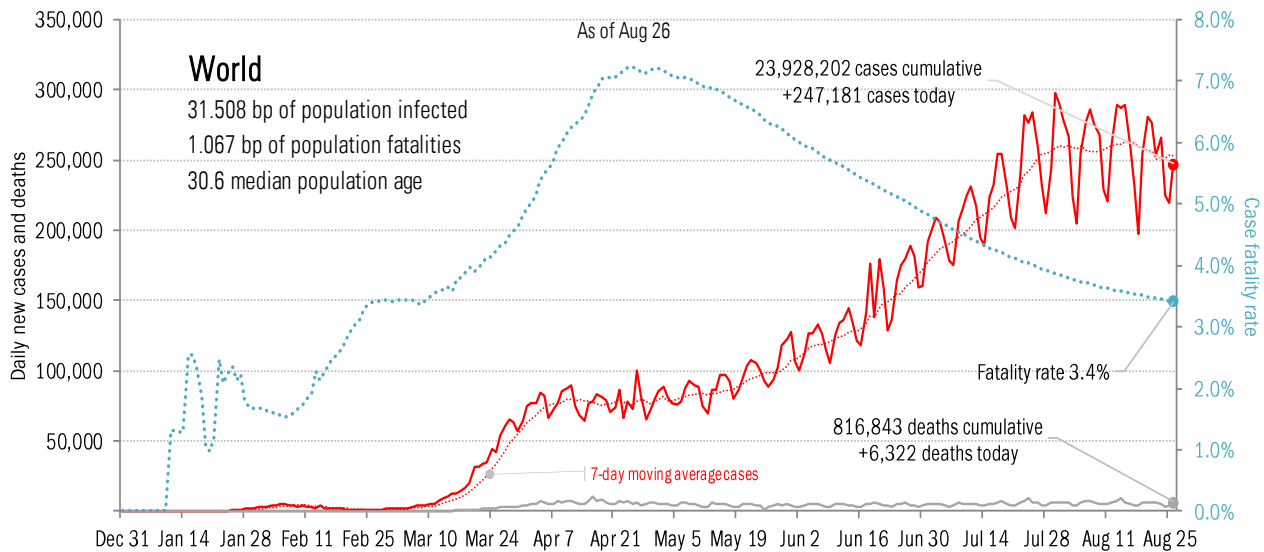
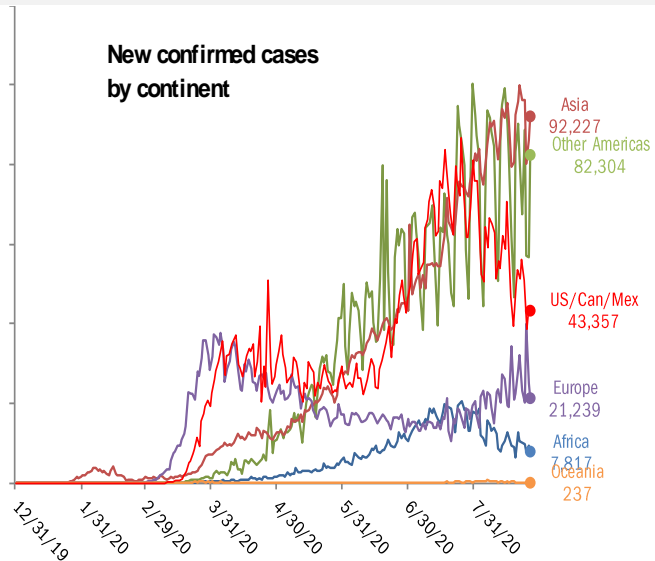


Data Insights: Covid-2019 Monitor

Wednesday, August 26, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+67,151	Brazil	+1,271
Brazil	+47,134	US	+1,207
US	+38,119	India	+1,059
Colombia	+10,432	Mexico	+650
Argentina	+8,771	Colombia	+277
Peru	+6,944	Argentina	+197
Mexico	+4,916	Peru	+188
Russia	+4,696	South_Africa	+149
Iraq	+3,962	Iran	+133
Ukraine	+3,331	Russia	+120
+195,456		+5,251	
World	+247,181	World	+6,322
Top ten	79%	Top ten	83%



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

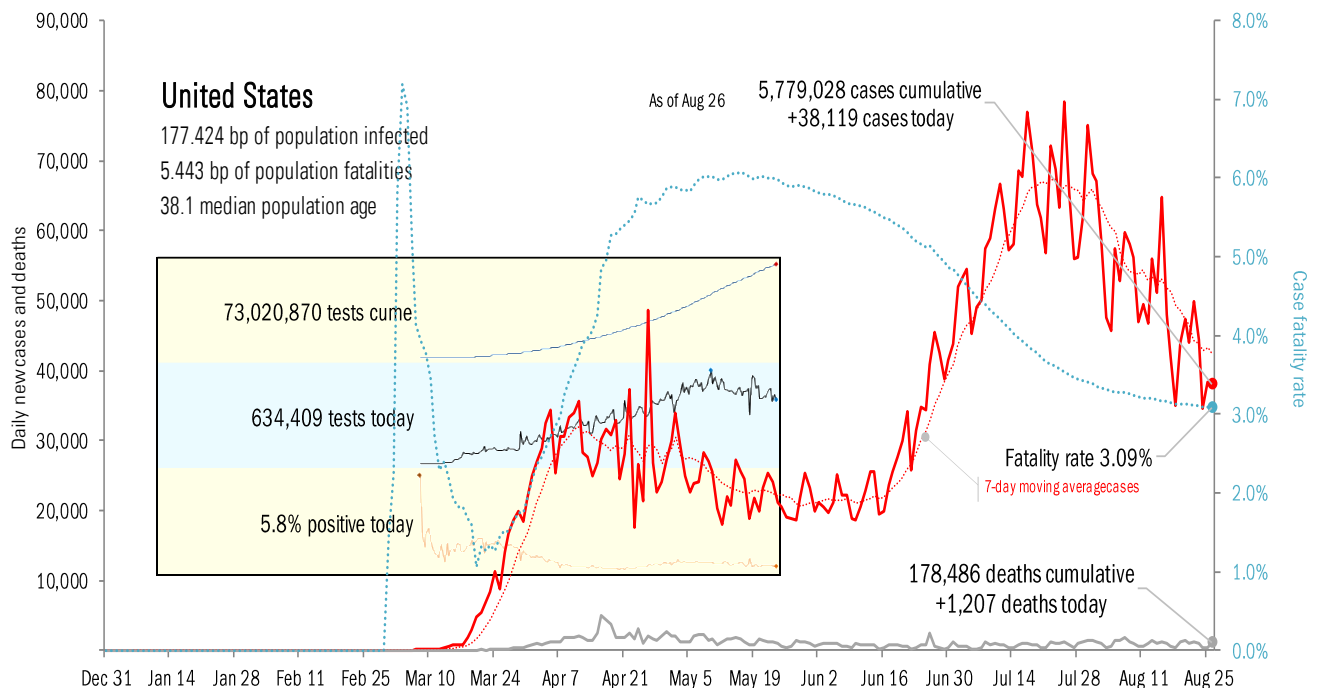
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
TX	+6,346	FL	+183	FL	+445	CA	673,095	NY	25,297	NY	89,995
CA	+4,480	TX	+181	GA	+292	FL	605,502	NJ	15,953	FL	37,477
FL	+2,673	GA	+106	SC	+159	TX	586,730	CA	12,257	GA	23,717
GA	+2,101	CA	+105	AZ	+146	NY	430,774	TX	11,576	NJ	22,468
IL	+1,680	MS	+67	VA	+146	GA	258,354	FL	10,717	AZ	21,365
NC	+1,345	TN	+40	OH	+97	IL	224,887	MA	8,960	VA	15,755
VA	+1,005	NC	+35	OK	+96	AZ	199,273	IL	8,126	MD	14,051
MI	+951	LA	+33	TN	+94	NJ	190,021	PA	7,605	AL	13,793
SC	+937	NV	+30	IN	+74	NC	157,741	MI	6,684	OH	12,956
AZ	+859	IL	+29	AR	+51	TN	145,417	GA	5,262	MA	12,279
+22,377		+809		+1,600		3,471,794		112,437		263,856	
All states	+36,679	All states	+1,147	All states	+1,999	All states	5,749,803	All states	170,353	All states	362,452
Top ten	61%	Top ten	71%	Top ten	80%	Top ten	60%	Top ten	66%	Top ten	73%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
KS	-1,545	MA	-15	AL	-291	TX	+9,368
AL	-1,118	KS	-7	CR	-34	MS	+6,130
IN	-831	DE	-5	KS	-24	SC	+5,313
PR	-620	NY	-5	WA	-18	IN	+2,572
CA	-466	WA	-2	MD	-7	TN	+1,994



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

Recommended reading

[Genetic data show how a single superspreading event sent coronavirus across Massachusetts — and the nation](#)

Sarah Kaplan and Chris Mooney
Washington Post
August 25, 2020

[COVID-19 re-infection by a phylogenetically distinct SARS-coronavirus-2 strain confirmed by whole genome sequencing](#)

Kelvin Kai-Wang To et al.
Clinical Infectious Diseases
August 25, 2020

[I've made an important observation that strongly supports a pre-existing immunity based model for C19](#)

Gummibear
Twitter
August 25, 2020

[UK lockdown was a 'monumental mistake' and must not happen again – Boris scientist says](#)

Lucy Johnston
Express
August 25, 2020

[Biden's Lockdown Mistake](#)

Wall Street Journal
August 23, 2020

[Contact Settings and Risk for Transmission in 3410 Close Contacts of Patients With COVID-19 in Guangzhou, China](#)

Lei Luo et al.
Annals of Internal Medicine
August 13, 2020

[Hong Kong Reports First Confirmed Coronavirus Re-Infection](#)

Jinshan Hong and Jason Gale
Bloomberg
August 24, 2020

[New Thinking on Covid Lockdowns: They're Overly Blunt and Costly](#)

Greg Ip
Wall Street Journal
August 24, 2020

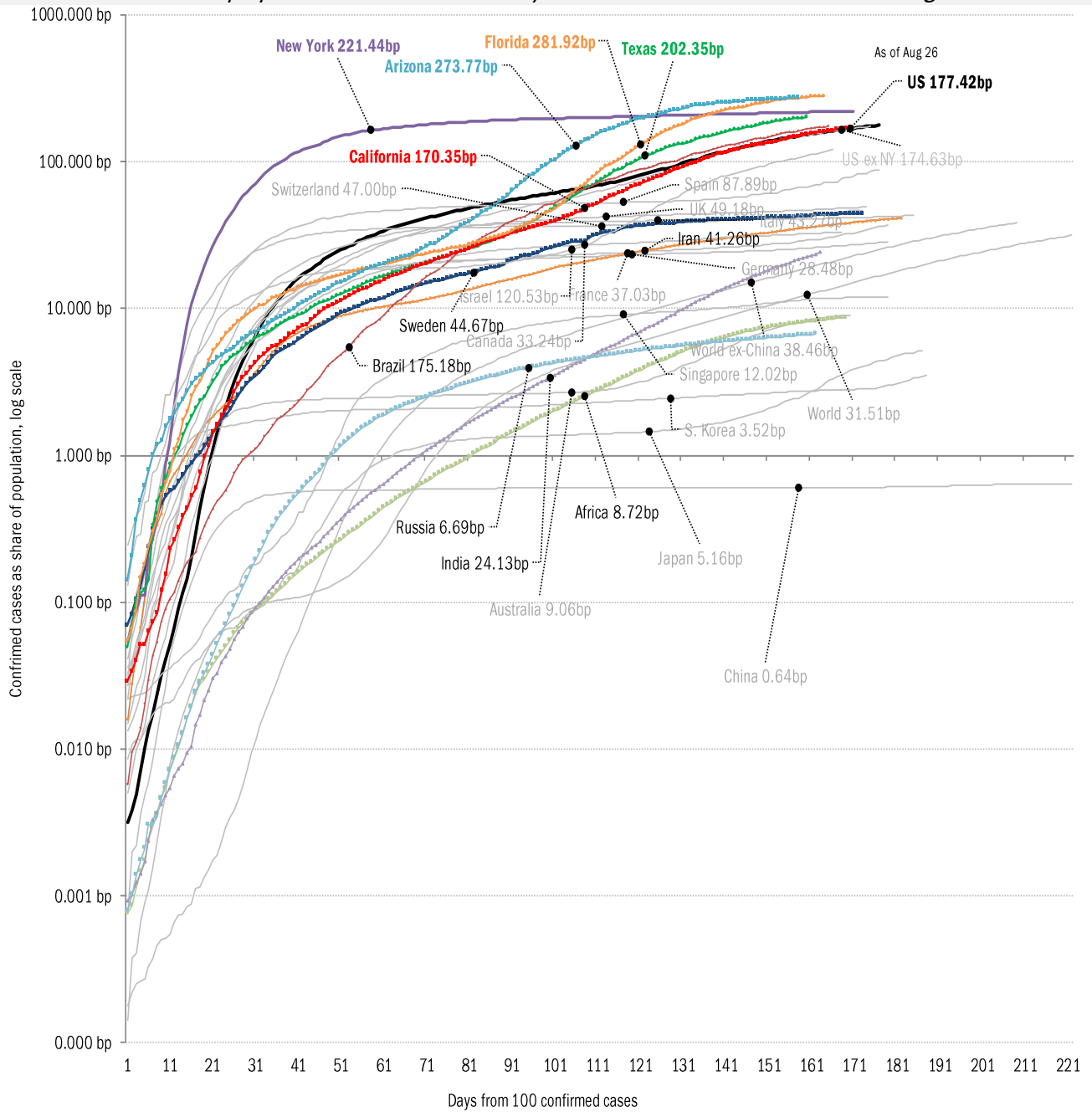
Meme of day



*'It's much simpler now.
The Government predicts
what your test results
would have been'*

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

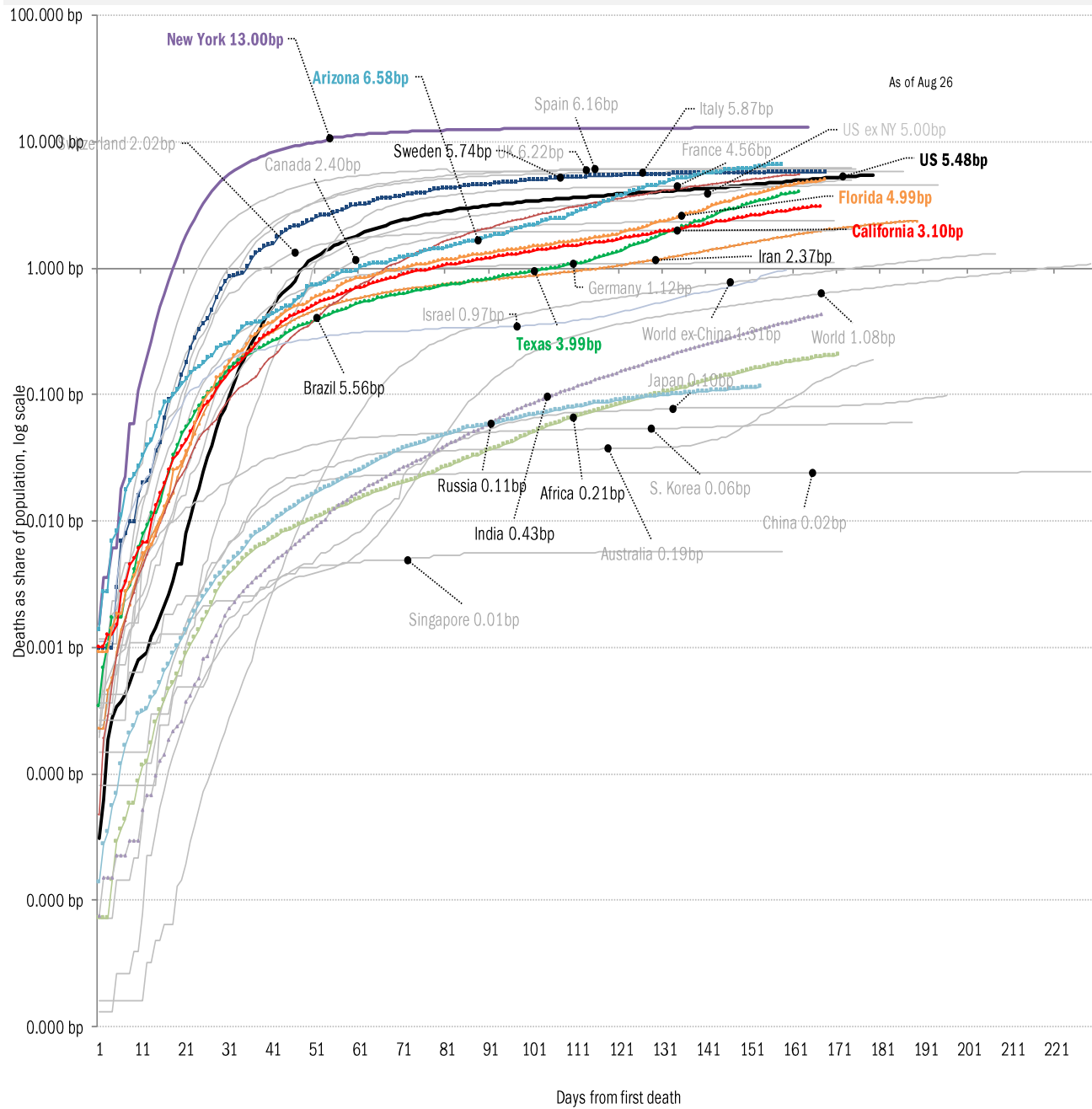
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

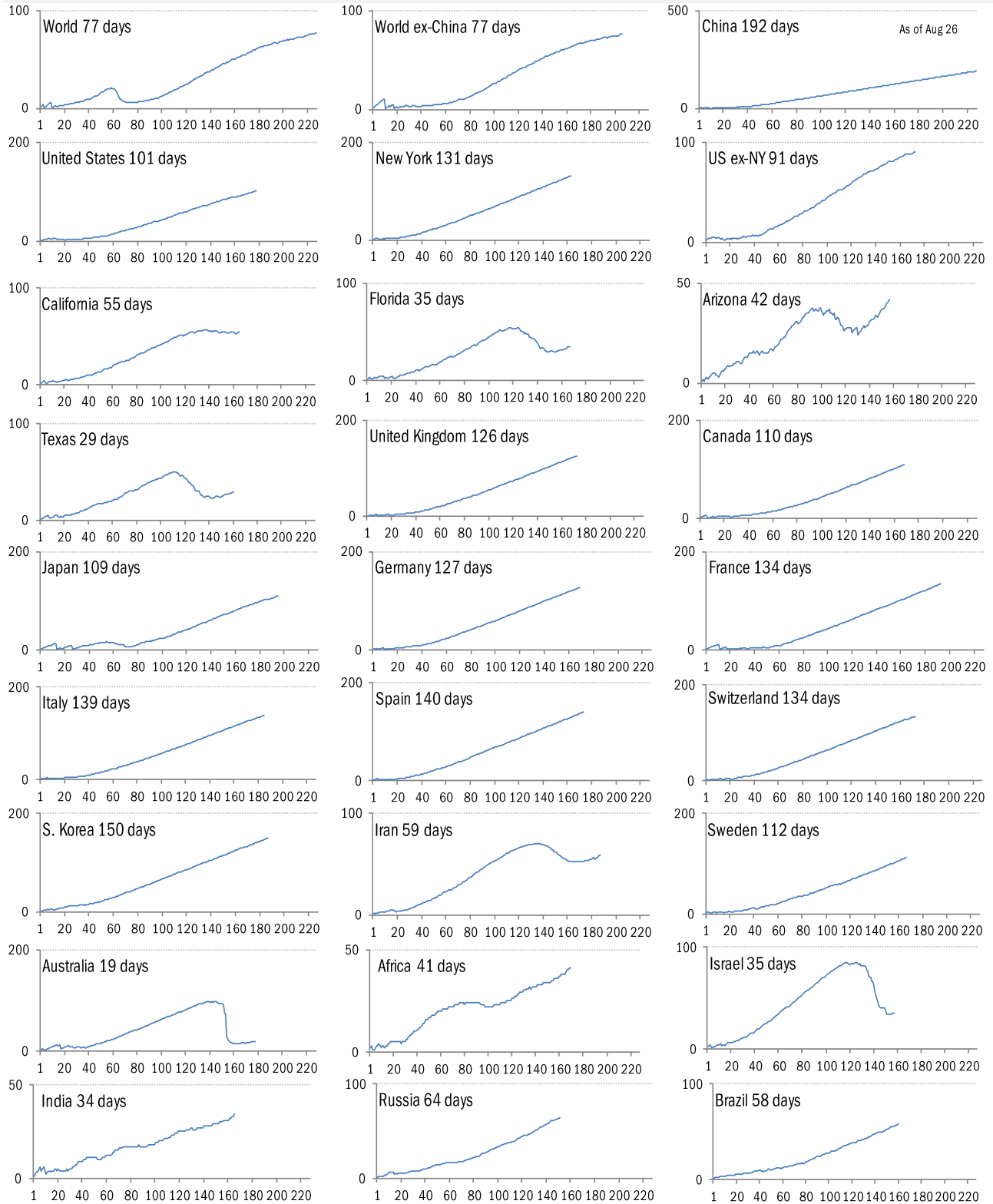


Source: [ECDC](#), TrendMacro calculations

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

Vertical: 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/), 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



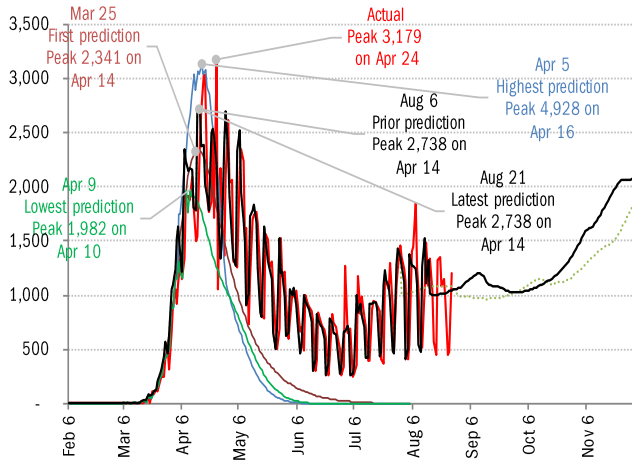
Source: [Covid Tracking Project](#), TrendMacro calculations

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

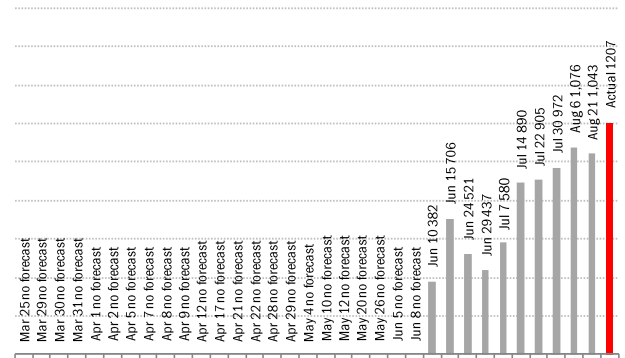
New daily fatalities

As of Aug 26

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

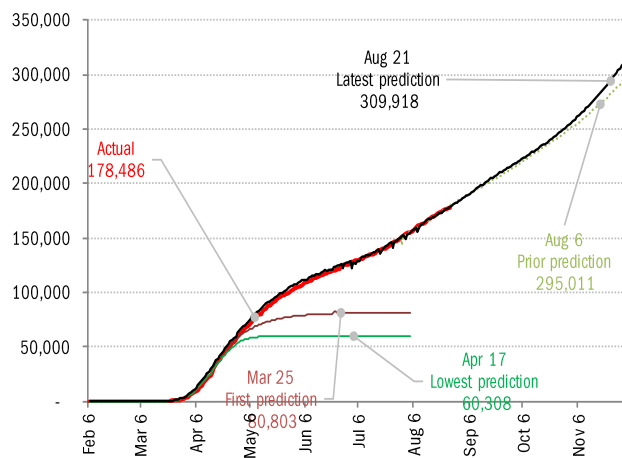


For this day, versus all model mean predictions

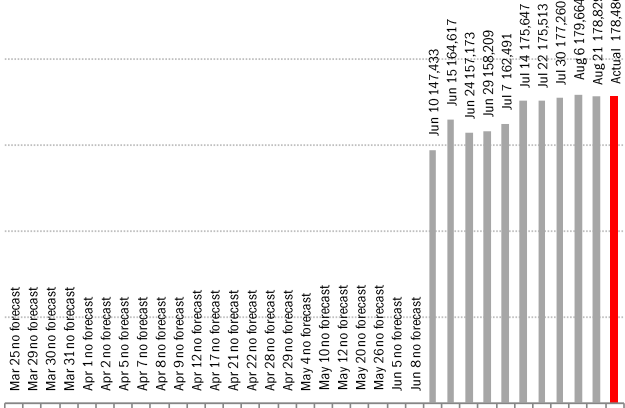


Cumulative fatalities

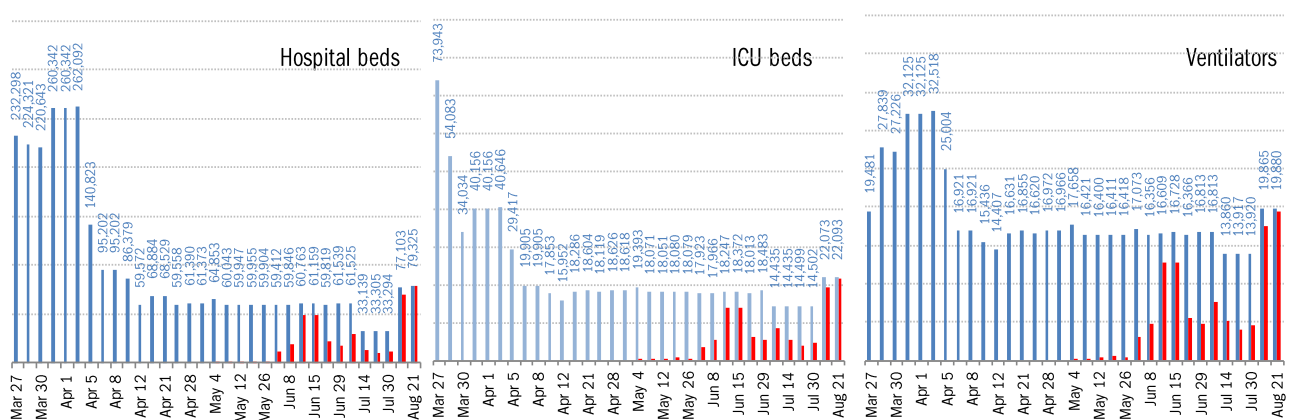
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

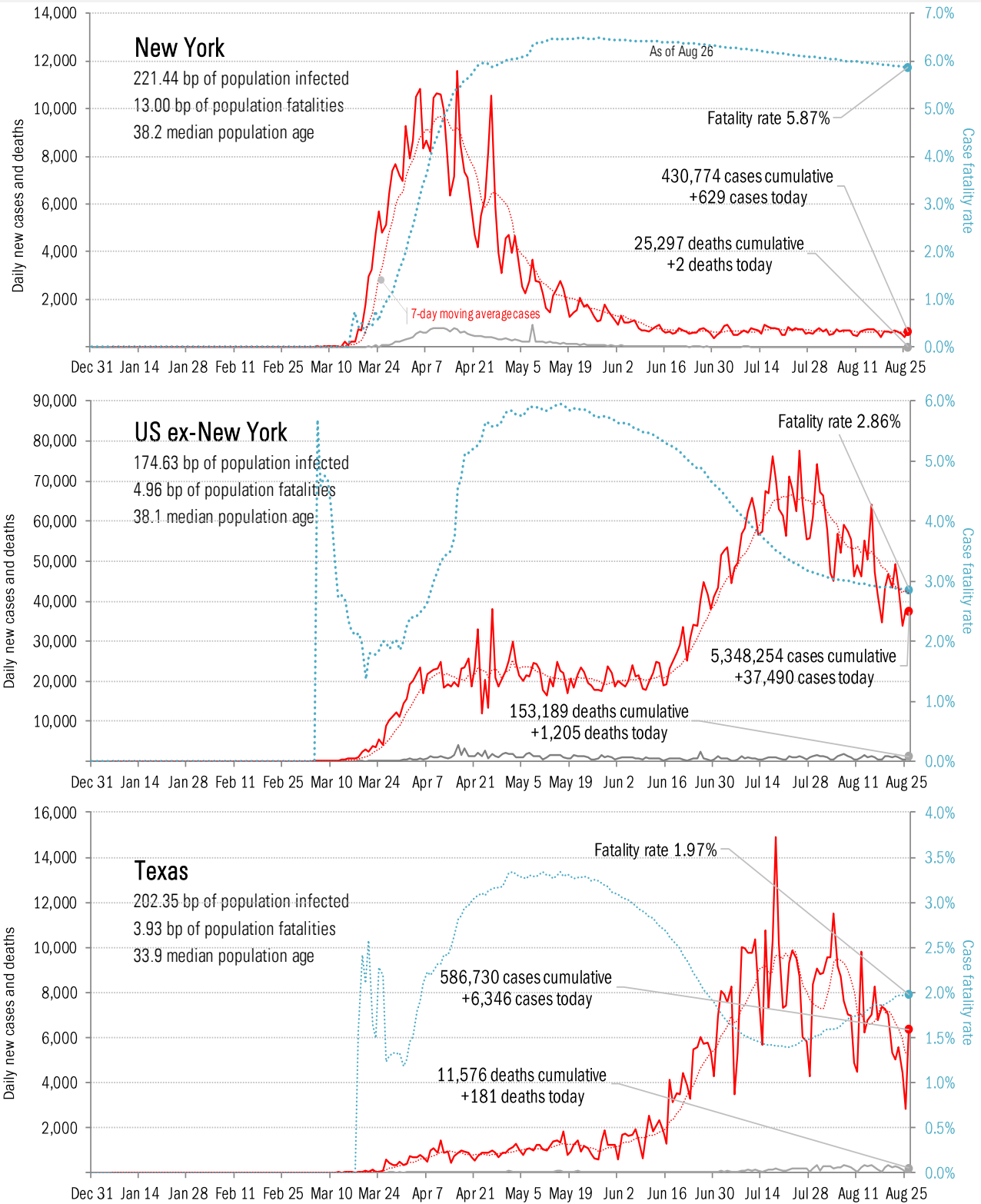


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



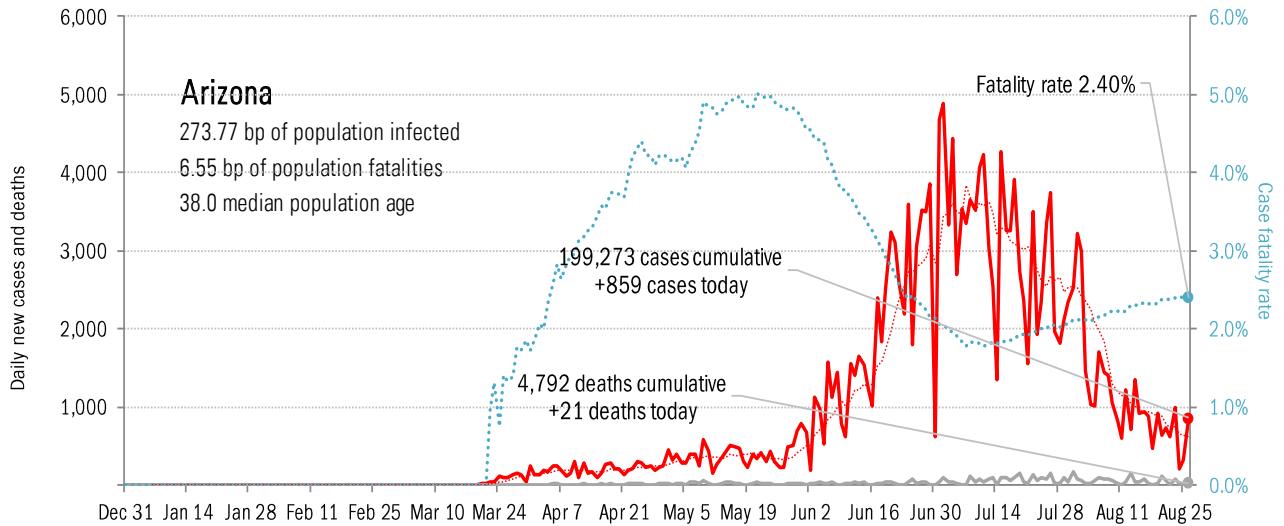
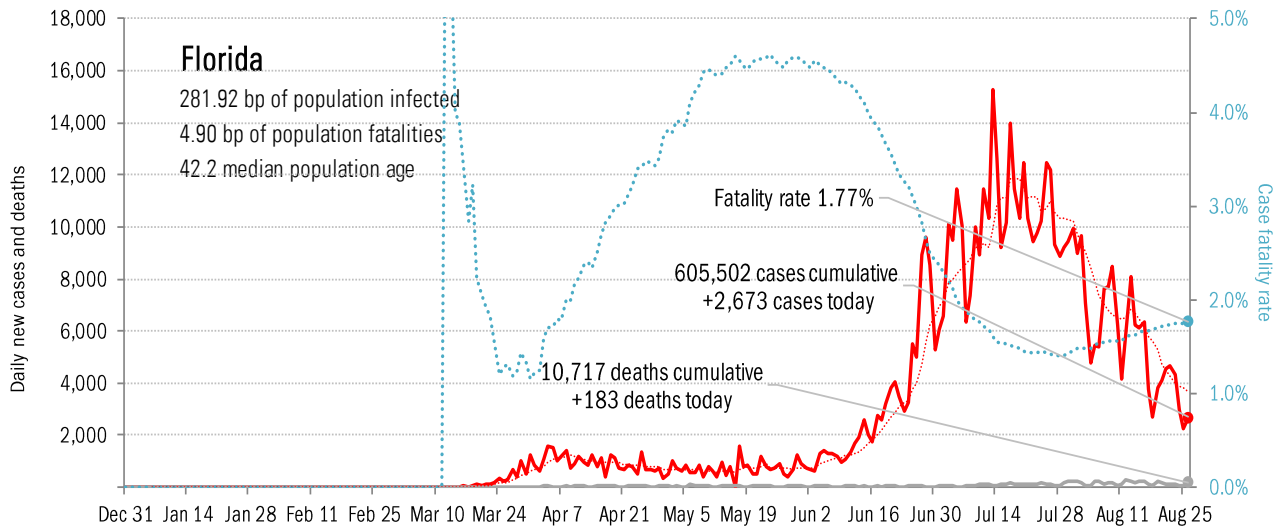
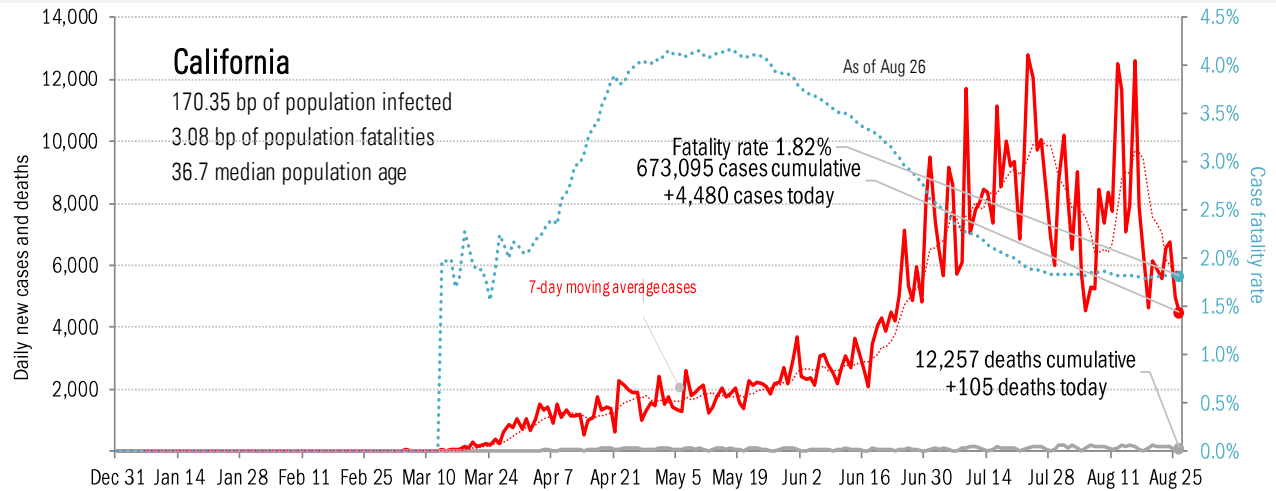
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



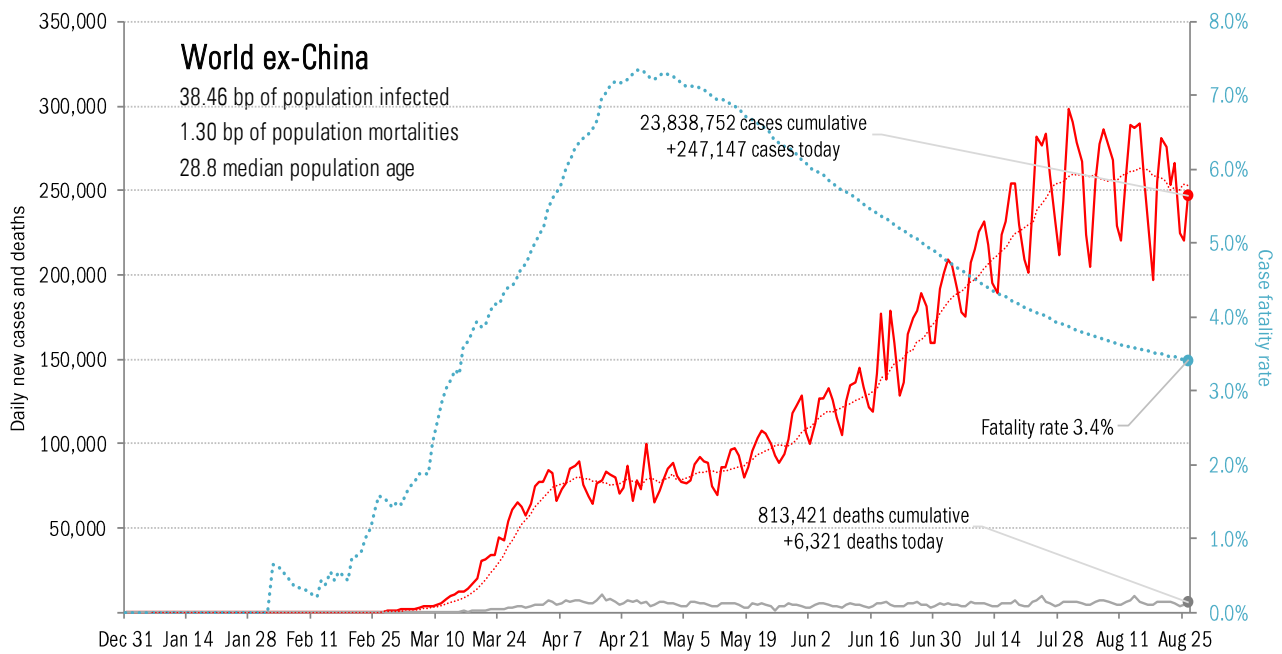
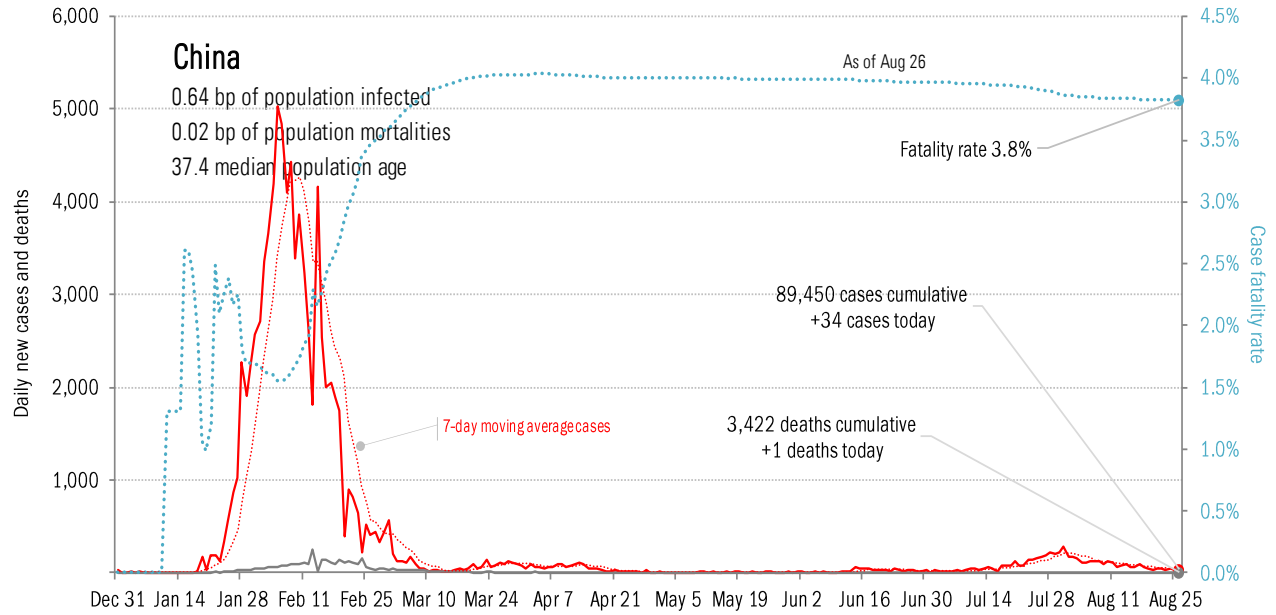
Source: [ECDC](#), TrendMacro calculations

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



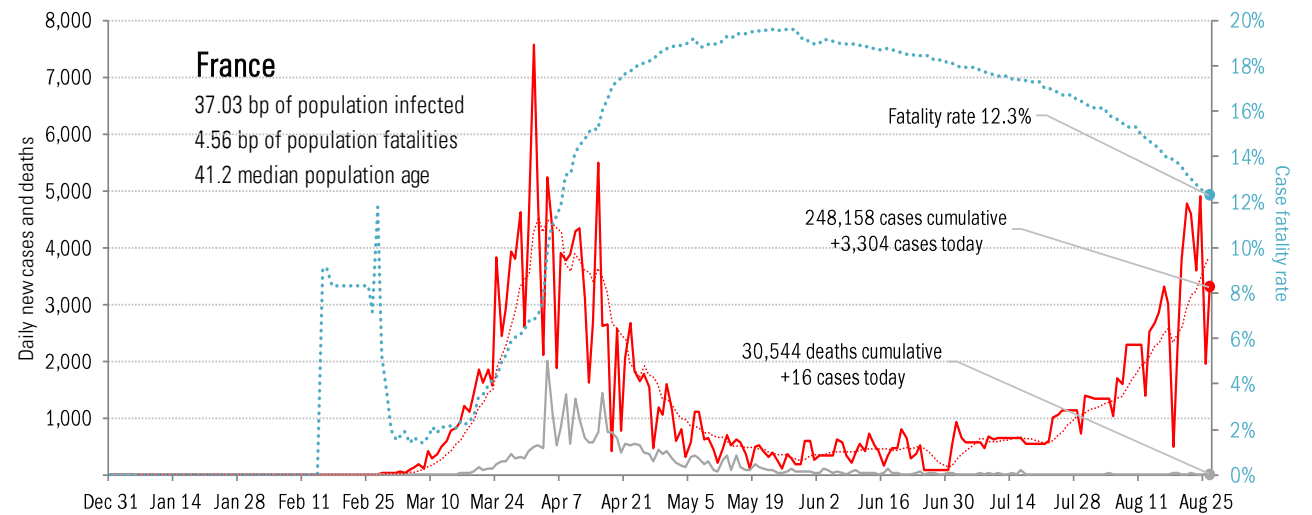
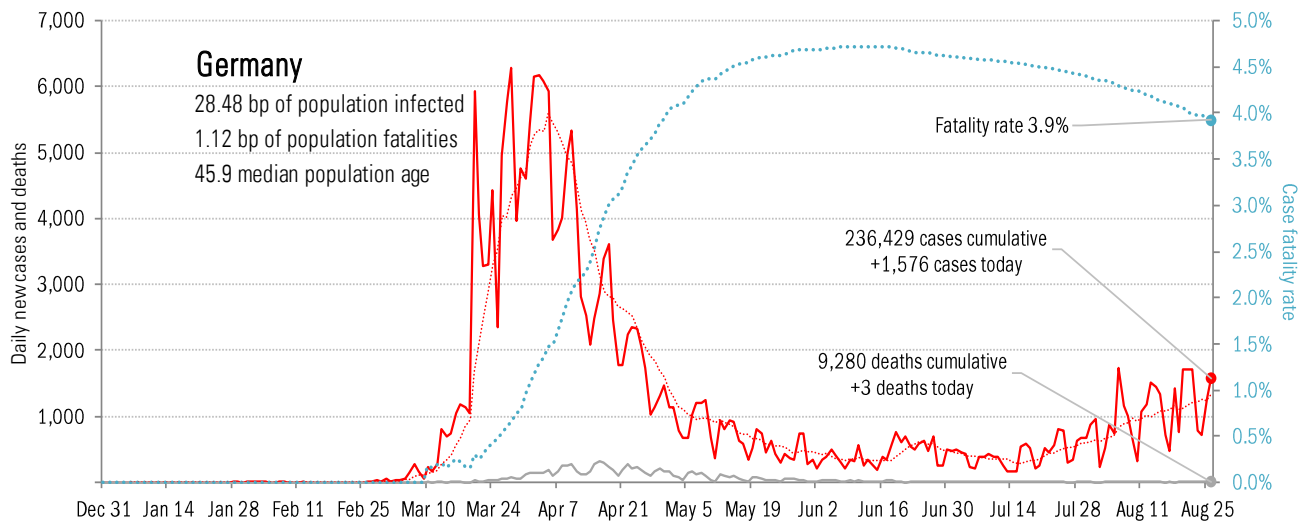
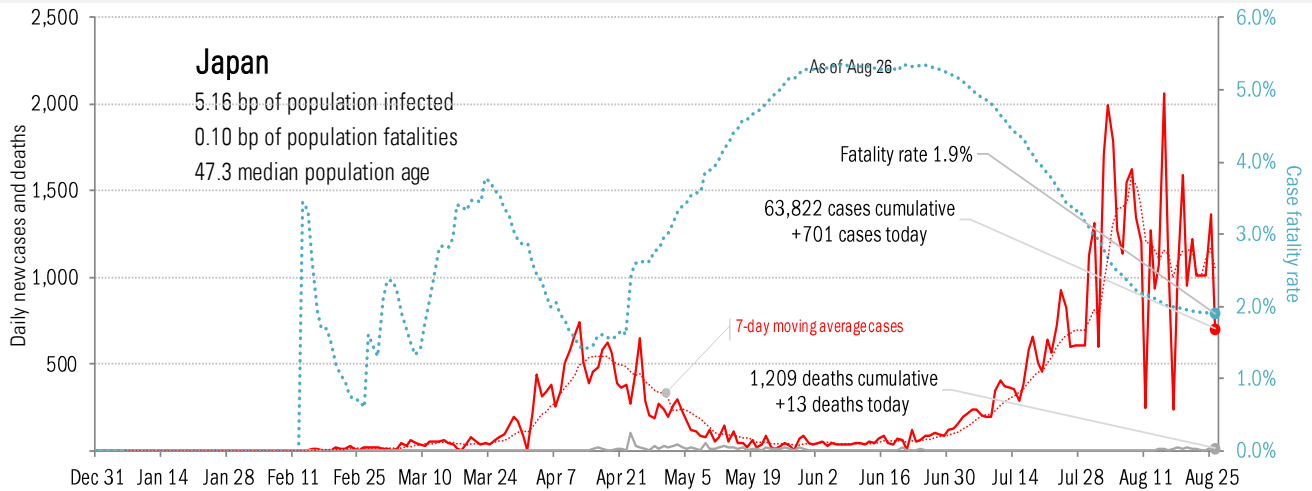
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



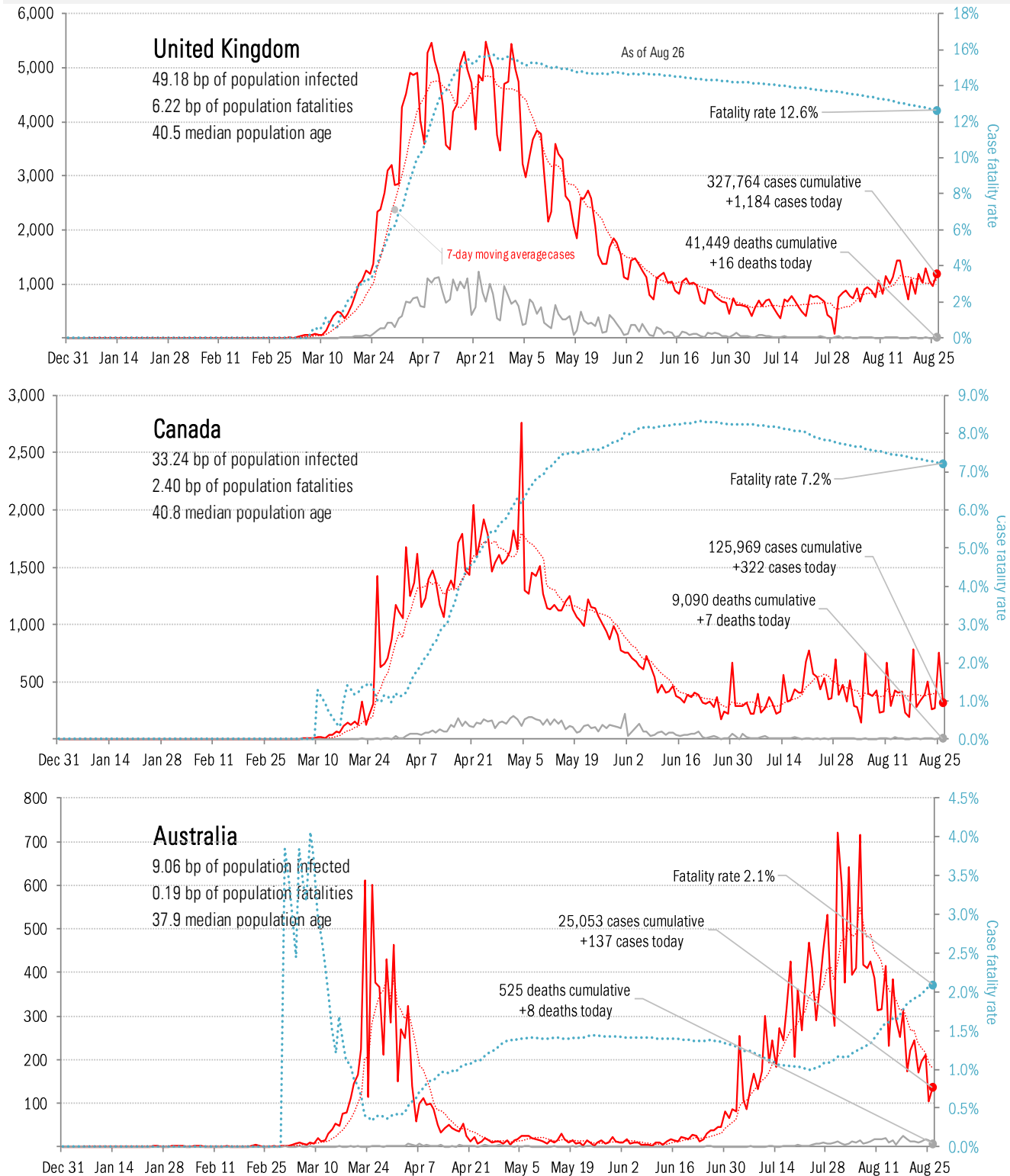
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



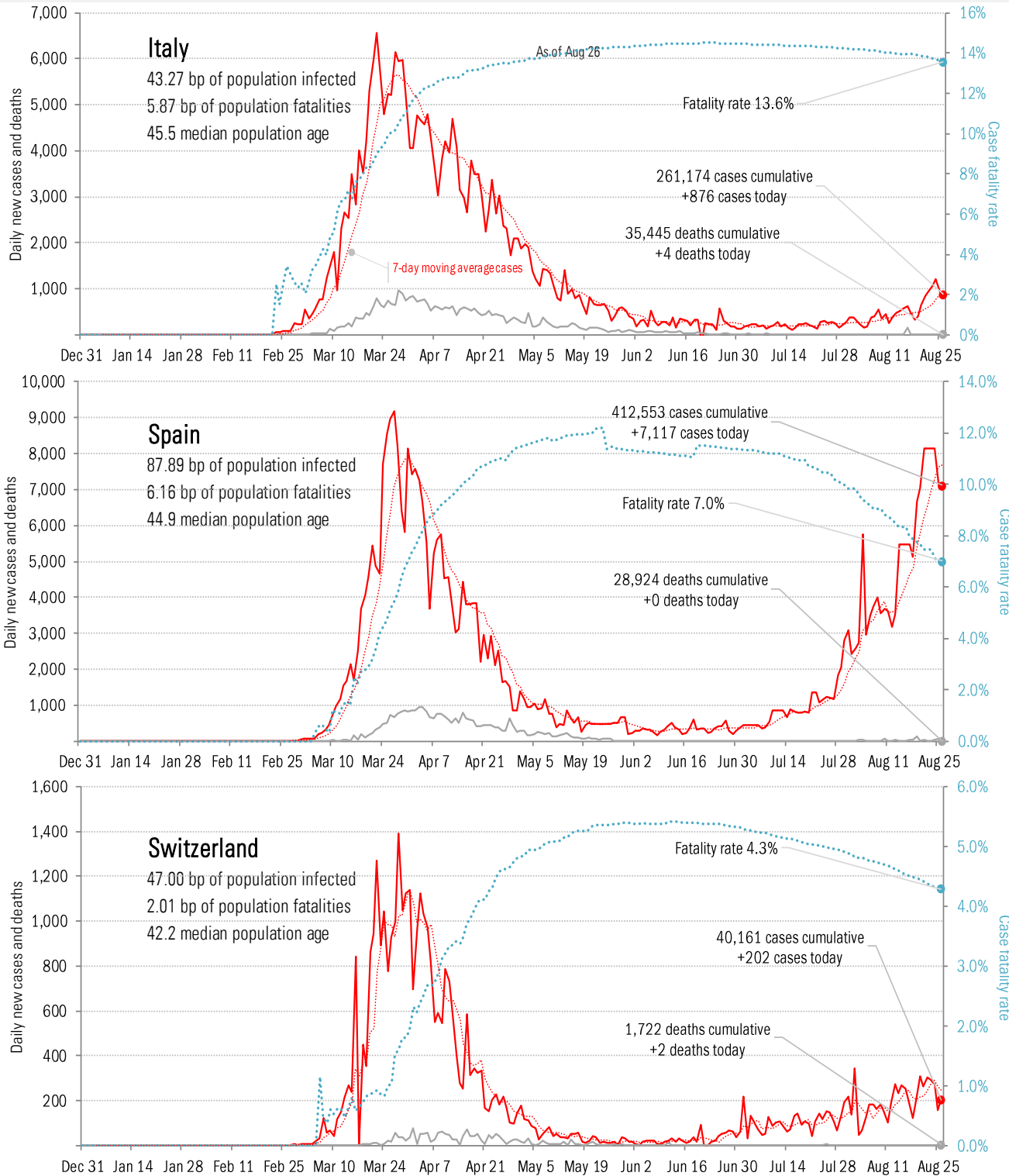
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



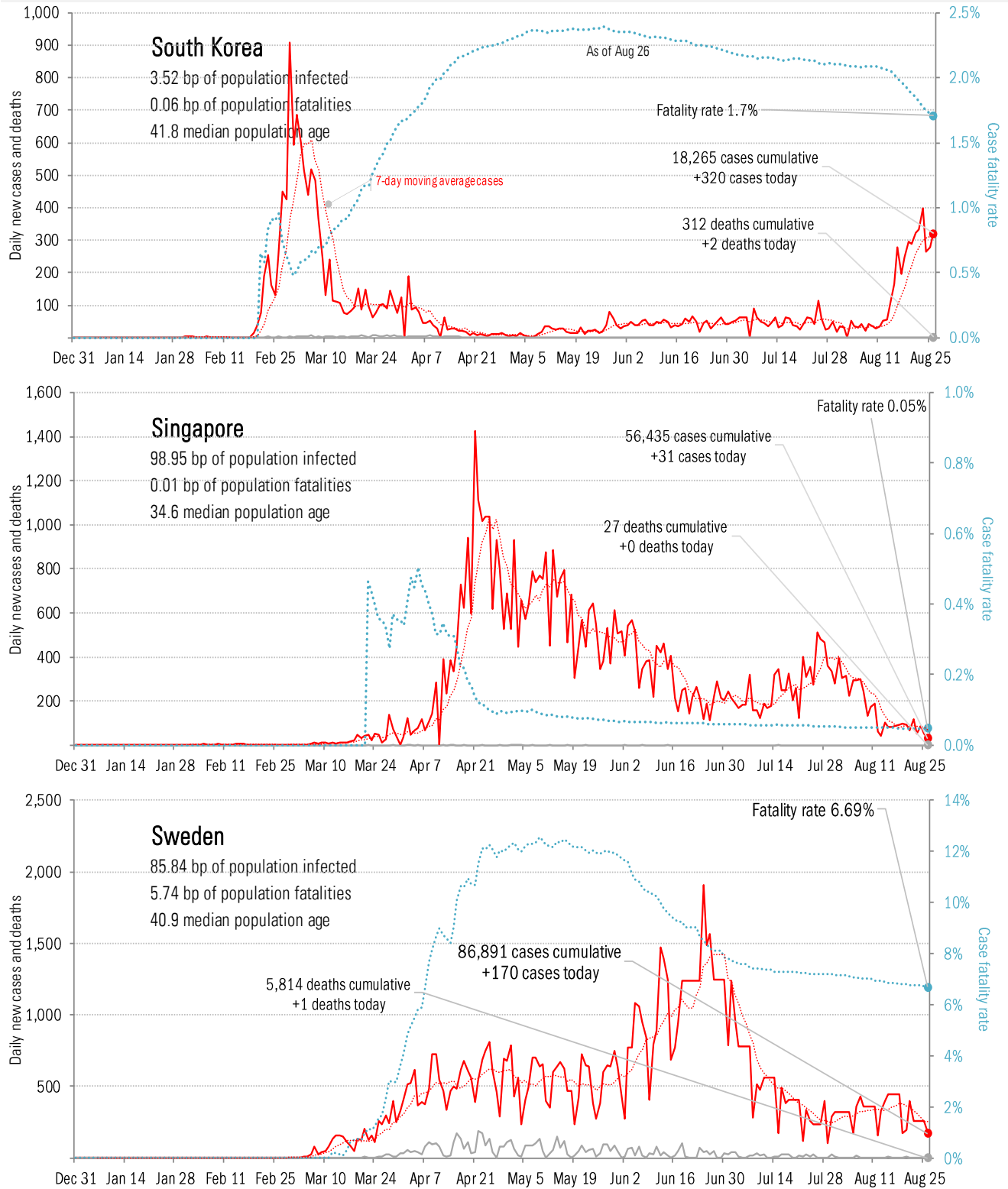
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



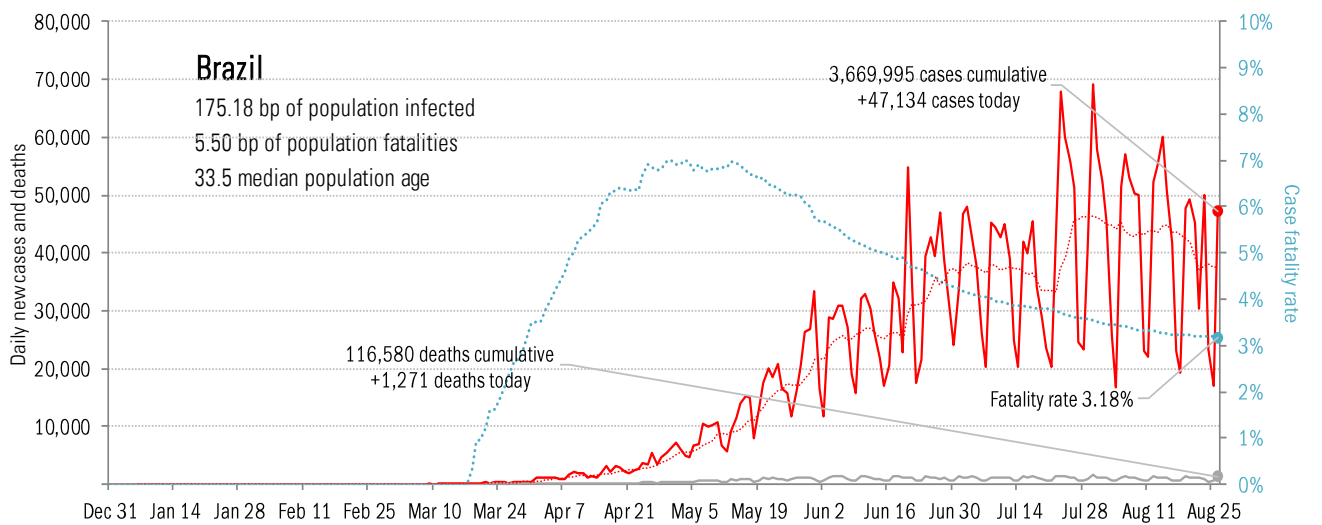
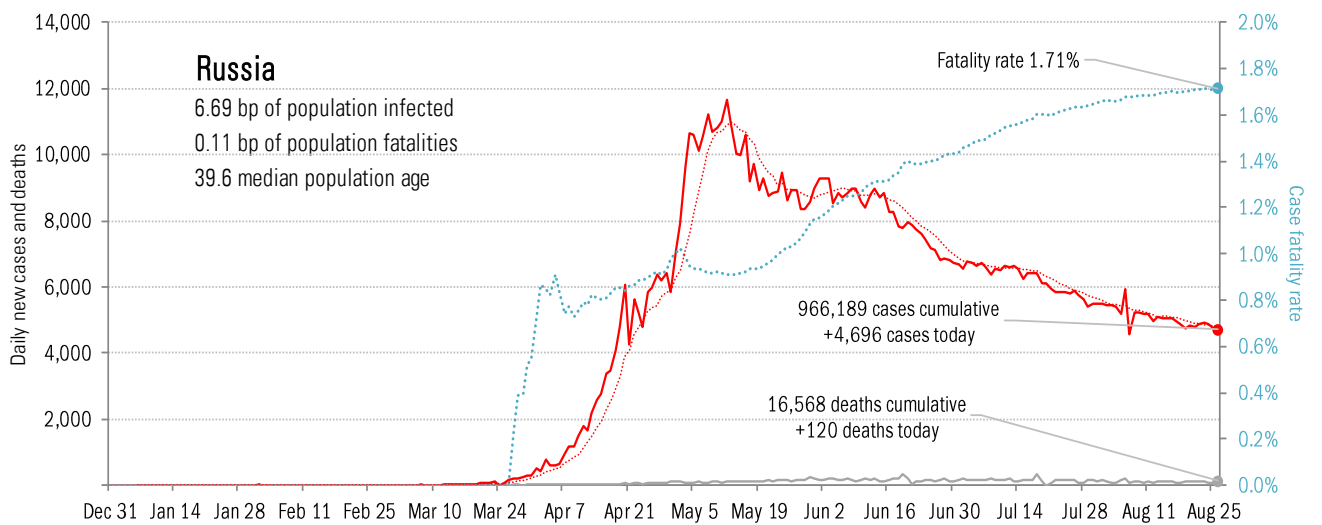
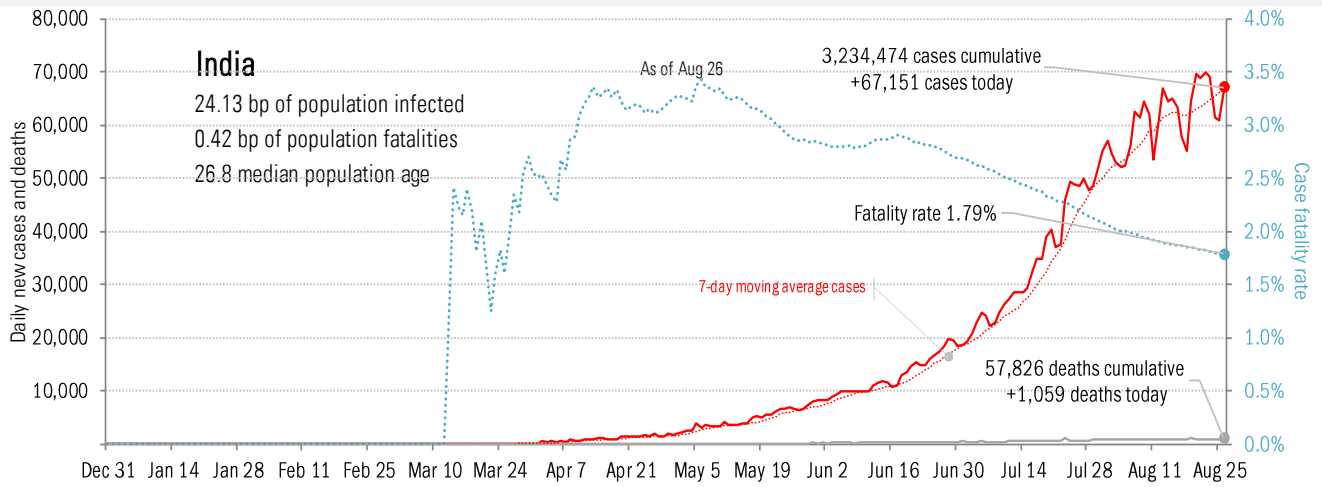
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



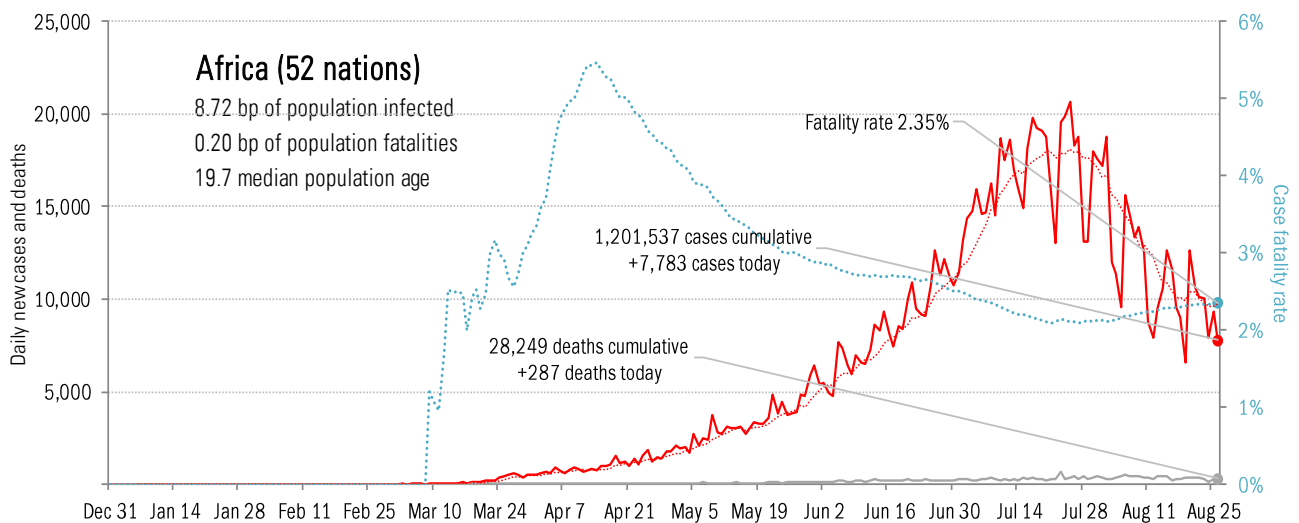
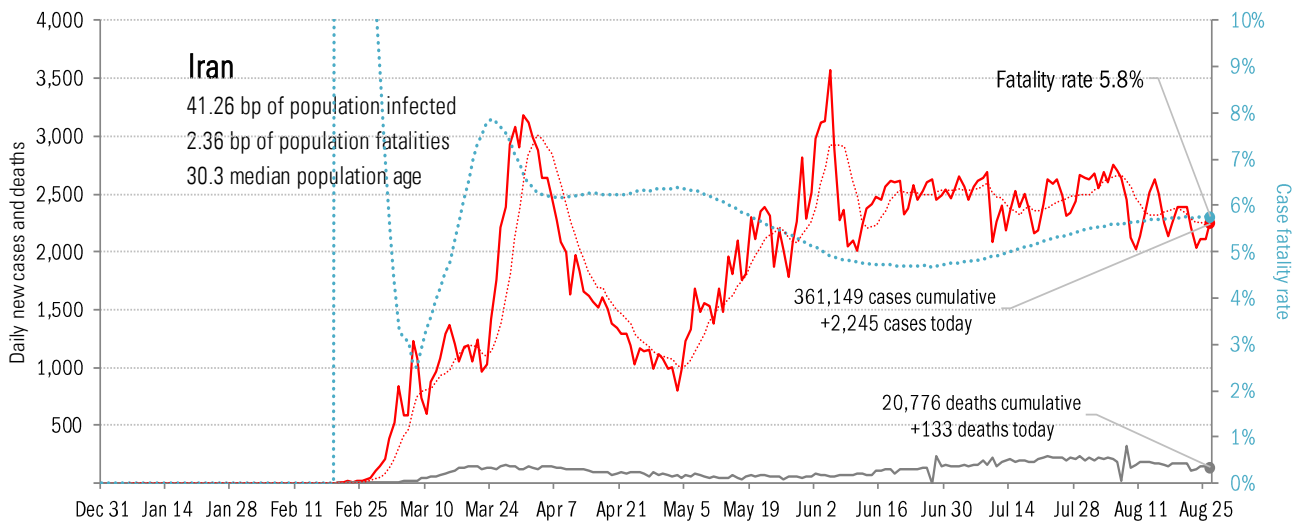
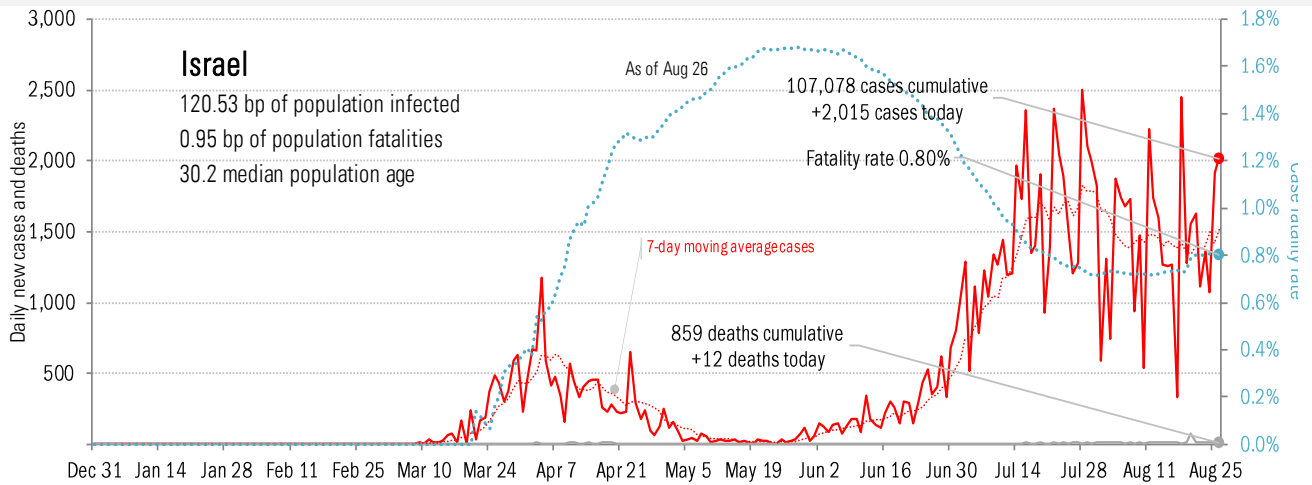
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations