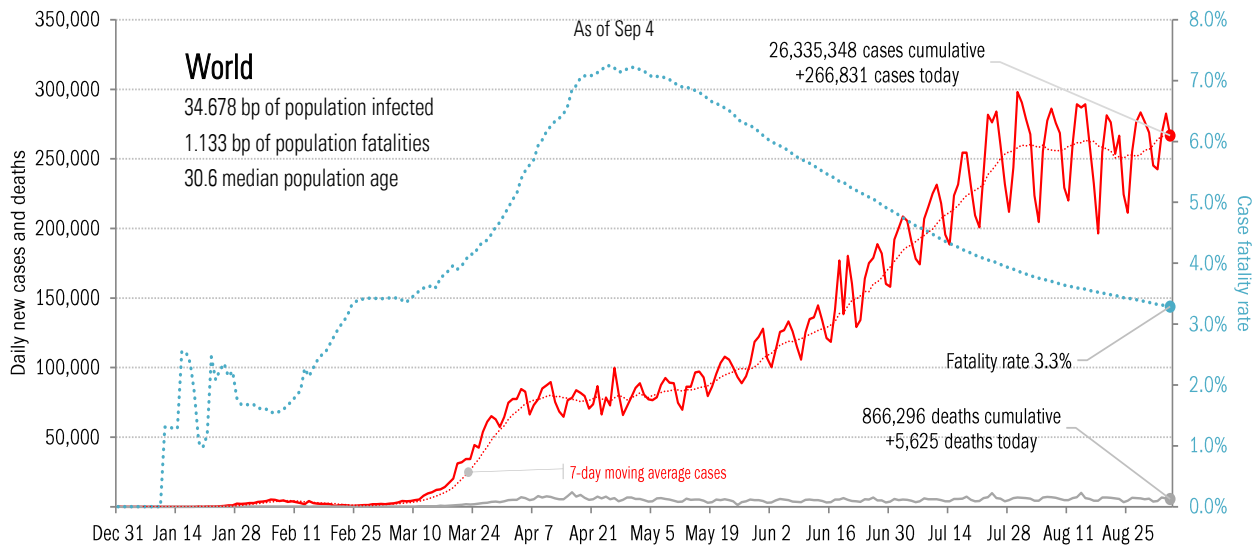
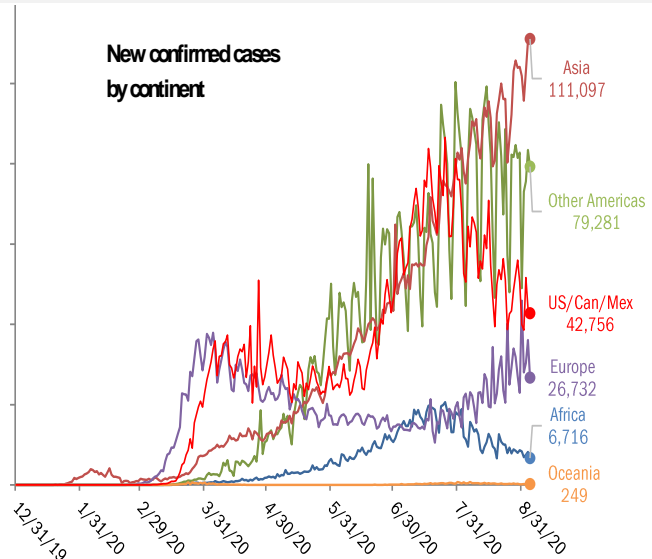


Data Insights: Covid-2019 Monitor

Friday, September 4, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+83,341	India	+1,096
Brazil	+43,773	US	+1,053
US	+36,249	Brazil	+834
Argentina	+10,933	Mexico	+513
Colombia	+8,235	Colombia	+270
France	+7,157	Argentina	+184
Peru	+6,708	South_Africa	+174
Mexico	+5,937	Peru	+146
Russia	+4,995	Indonesia	+134
Iraq	+4,755	Iran	+129
+212,083		+4,533	
World	+266,831	World	+5,625
Top ten	79%	Top ten	81%



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

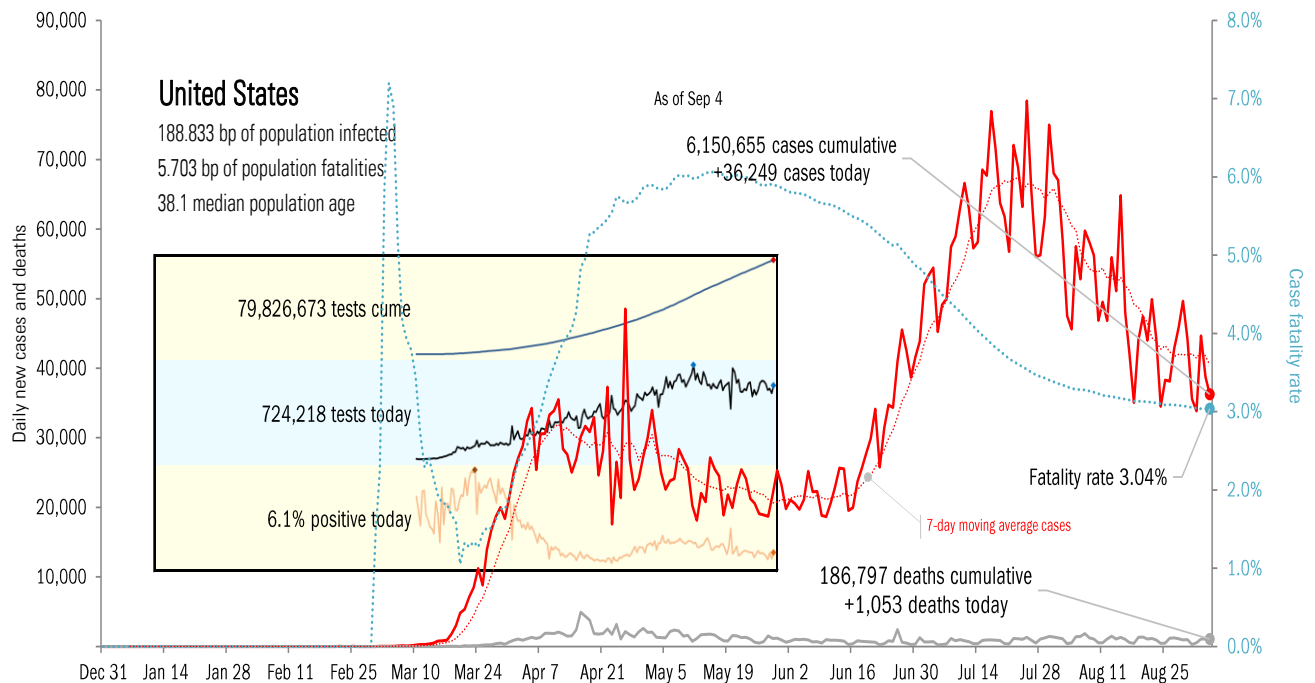
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
CA	+5,125	TX	+221	FL	+273	CA	717,177	NY	25,343	NY	89,995
TX	+3,680	CA	+164	GA	+234	FL	635,327	NJ	15,971	FL	39,884
GA	+2,675	FL	+149	CT	+95	TX	625,347	CA	13,327	GA	25,259
FL	+1,885	GA	+73	VA	+92	NY	437,107	TX	13,091	NJ	22,738
TN	+1,715	AZ	+65	CH	+89	GA	277,288	FL	11,800	AZ	21,474
NC	+1,656	CH	+50	MD	+76	IL	241,705	MA	9,077	VA	16,525
MO	+1,397	NV	+27	TN	+64	AZ	203,953	IL	8,324	AL	14,801
IL	+1,360	IL	+24	SC	+58	NJ	192,973	PA	7,732	MD	14,427
CH	+1,345	NC	+24	IN	+53	NC	172,209	MI	6,791	CH	13,663
SC	+1,193	AR	+20	OK	+52	TN	159,546	GA	5,868	MA	12,325
+22,031		+817		+1,086		3,662,632		117,324		271,091	
All states	+42,608	All states	+1,073	All states	+1,536	All states	6,115,795	All states	178,742	All states	375,400
Top ten	52%	Top ten	76%	Top ten	71%	Top ten	60%	Top ten	66%	Top ten	72%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
KS	-1,328	SC	-24	AL	-167	TN	+20,893
IL	-768	MS	-23	VA	-103	TX	+5,272
TX	-654	VA	-18	KS	-57	MA	+1,849
FL	-517	NC	-14	FL	-27	CH	+1,030
FR	-387	KS	-12	MN	-20	IN	+898



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

Recommended reading

[A Doctors' Open Letter to Daniel Andrews](#)

A Dozen Melbourne Doctors
Quadrant Online
September 1, 2020

[Viral cultures for COVID-19 infectivity assessment.](#)

[Systematic review](#)

Tom Jefferson et al.
medRxiv
August 21, 2020

[Community Use Of Face Masks And COVID-19: Evidence From A Natural Experiment Of State Mandates In The US](#)

Wei Lyu and George L. Wehby
Health Affairs
June 16, 2020

[Sanofi and Glaxo Start Human Trials for Covid-19 Vaccine](#)

Riley Griffin and Suzi Ring
Bloomberg
September 3, 2020

[COVID-19 mortality risk factors in older people in a long-term care center](#)

Eva Heras et al.
Research Square
September 2, 2020

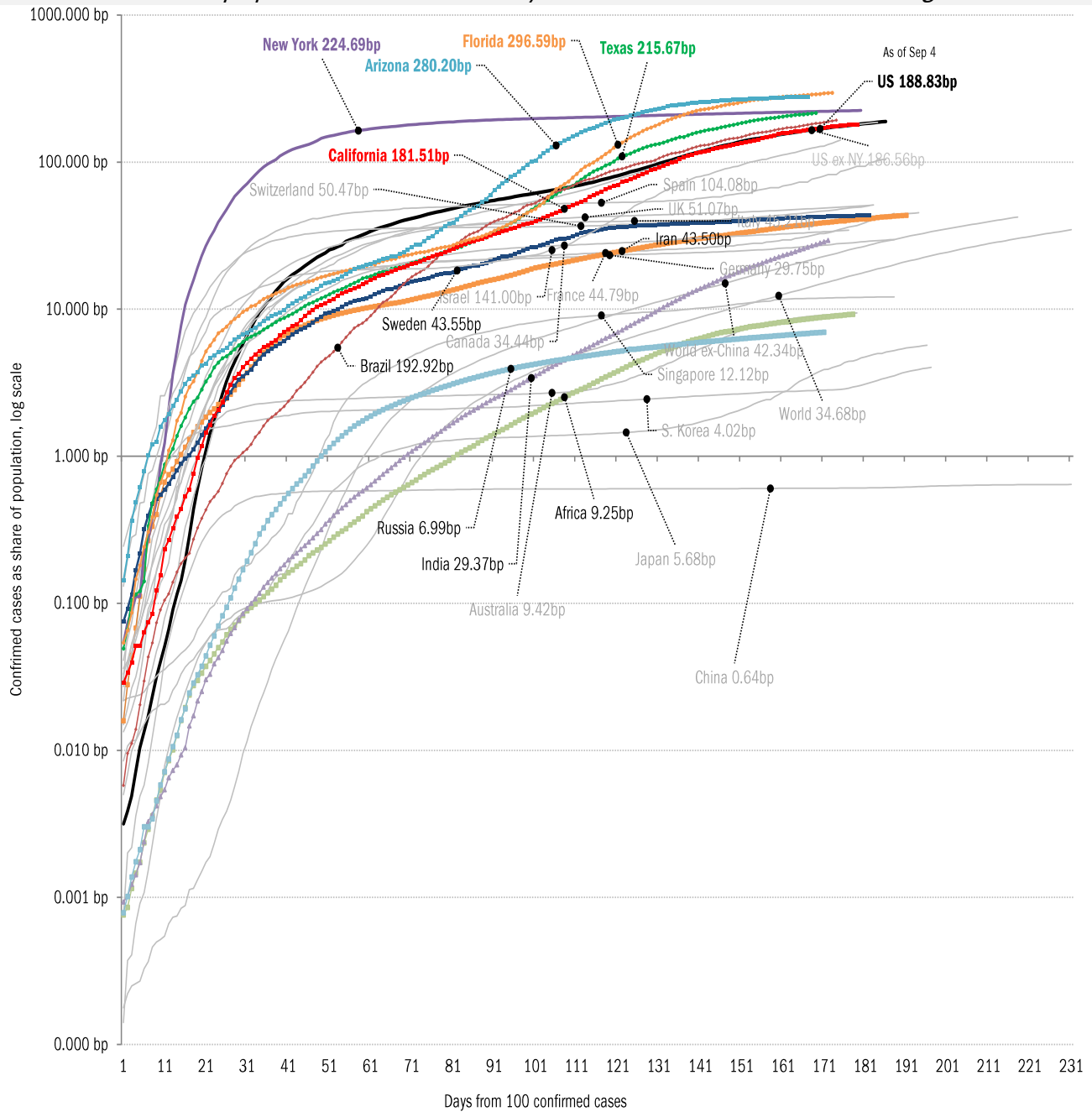
Meme of day

And so it begins....



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

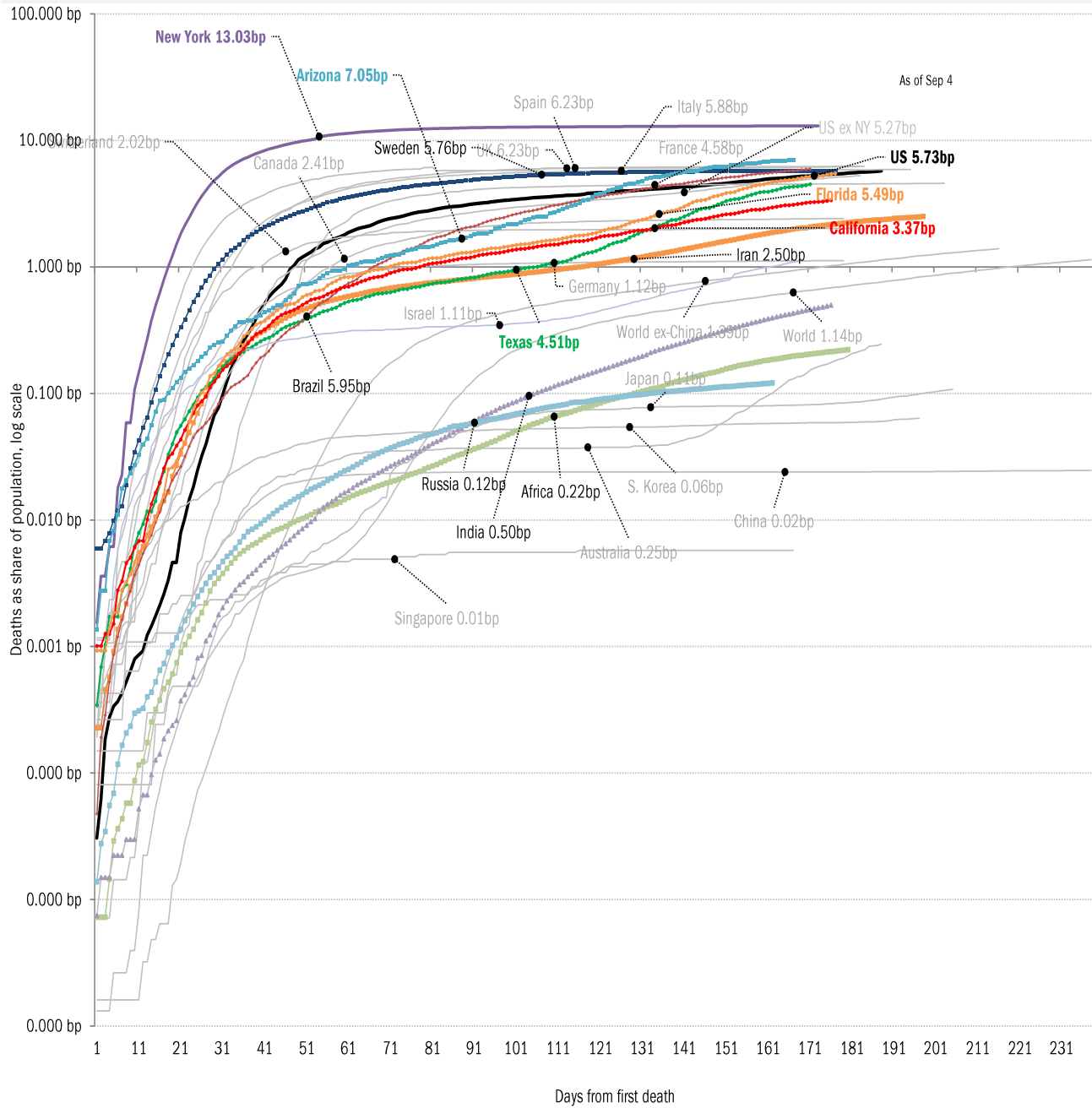
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

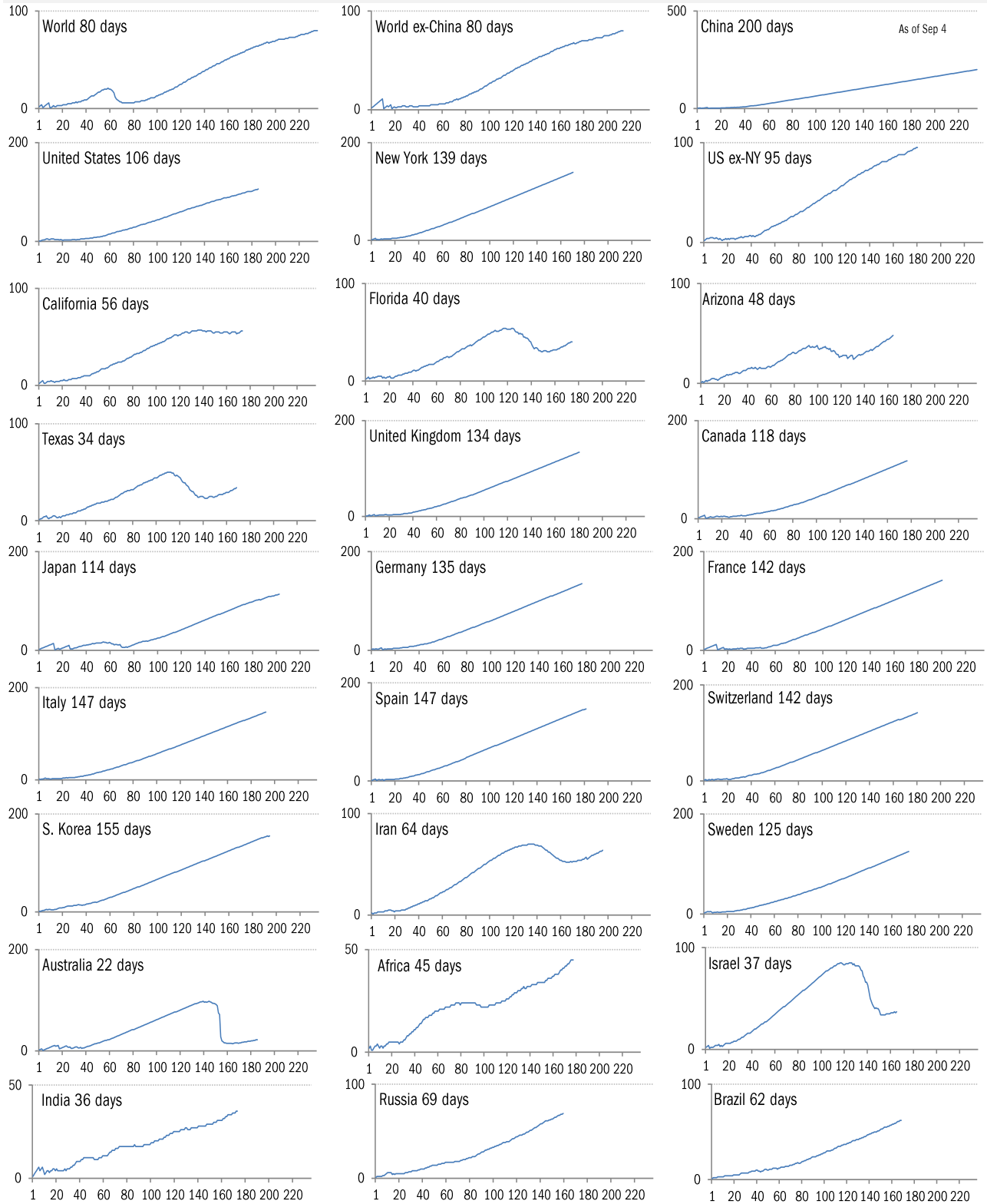


Source: [ECDC](#), TrendMacro calculations

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

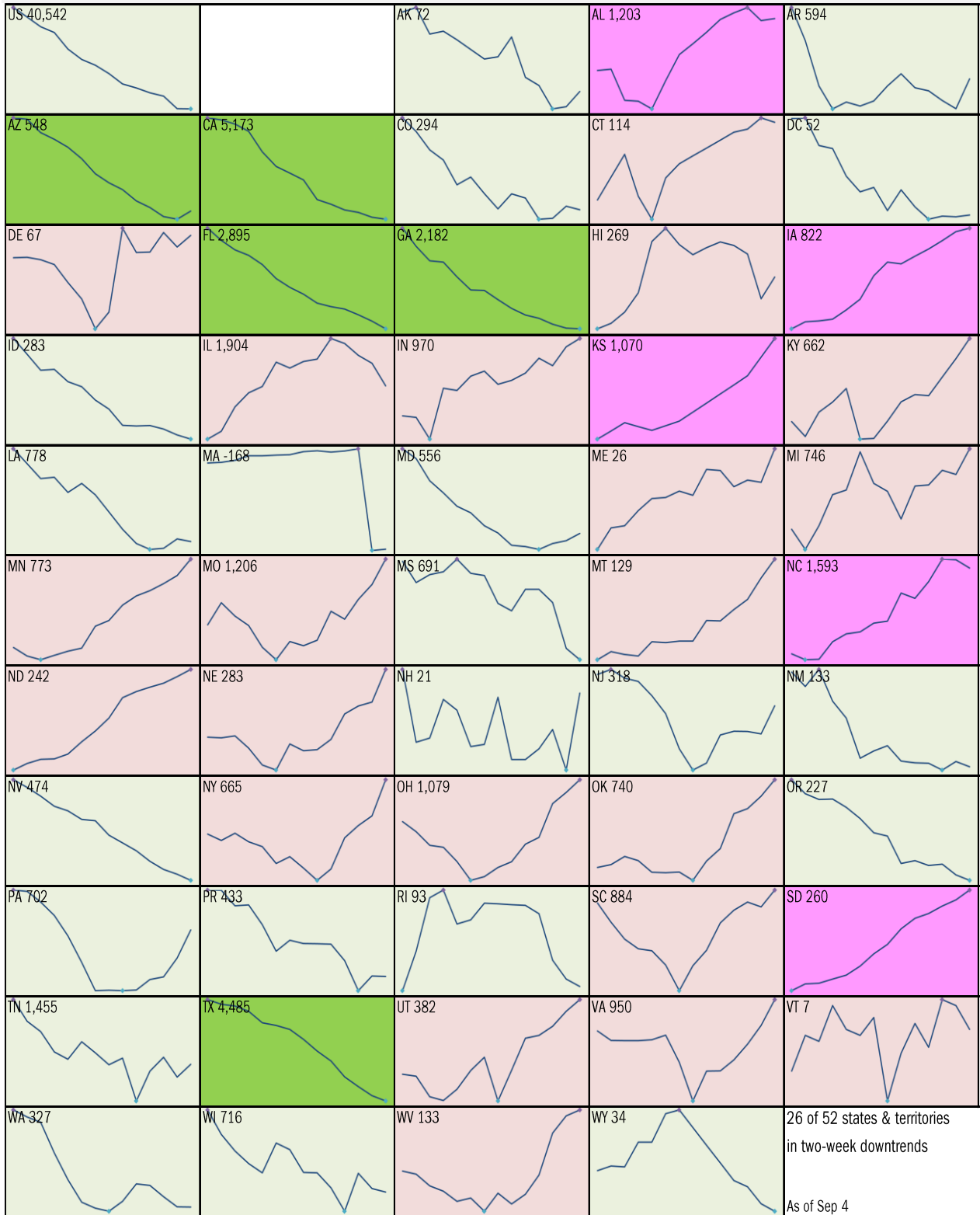
Vertical: days to double deaths Horizontal: days from first death

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



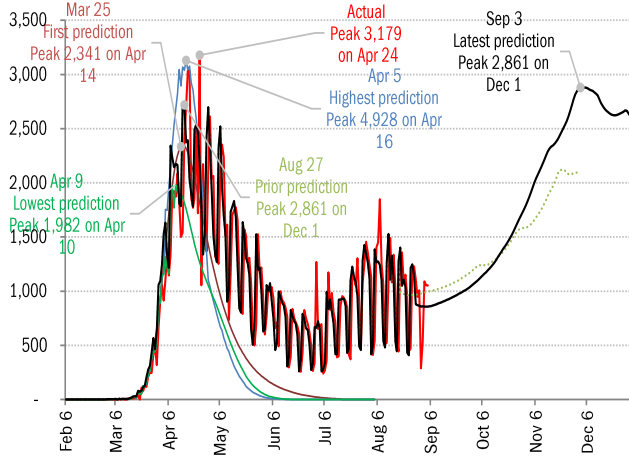
Source: [Covid Tracking Project](#), TrendMacro calculations

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

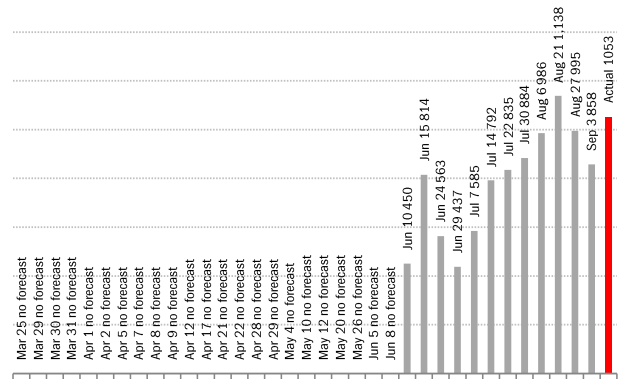
New daily fatalities

As of Sep 4

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

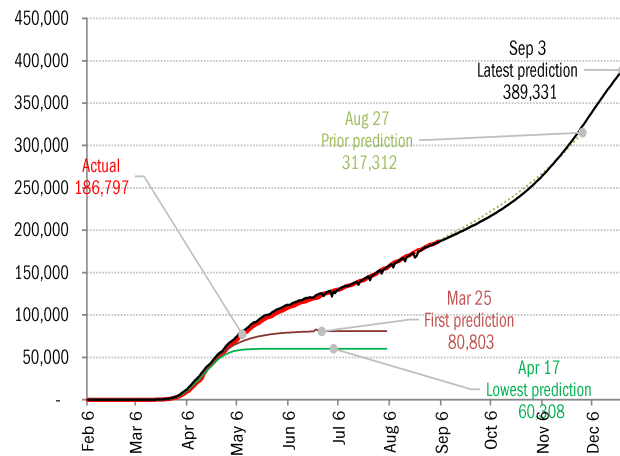


For this day, versus all model mean predictions

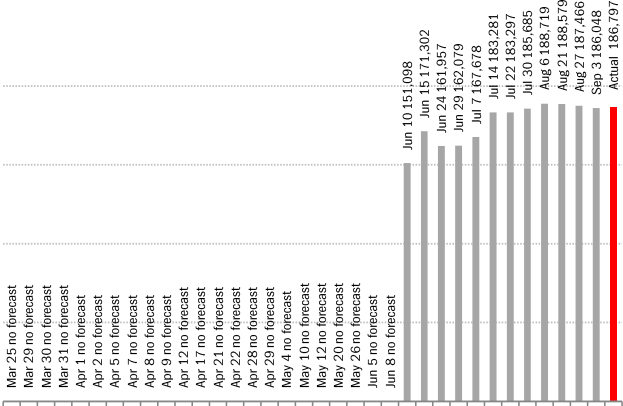


Cumulative fatalities

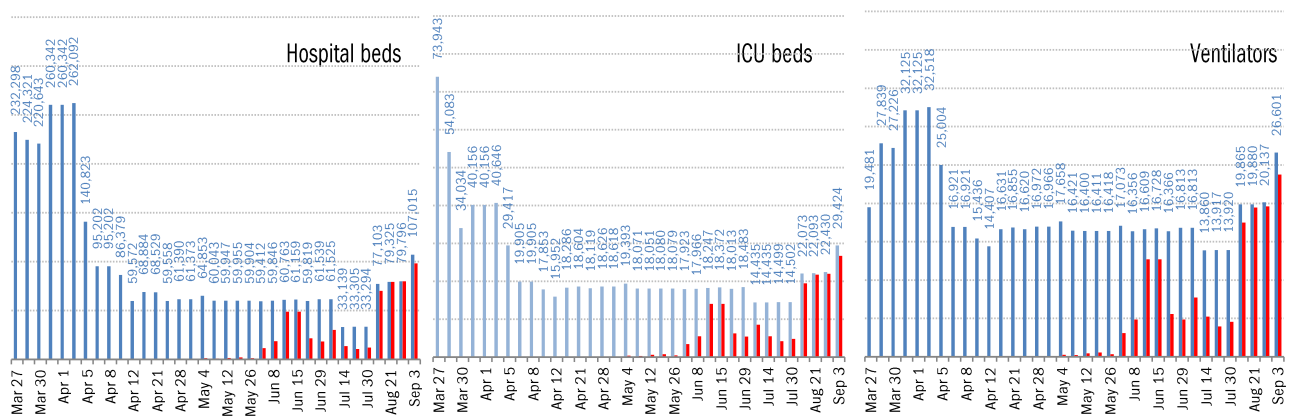
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

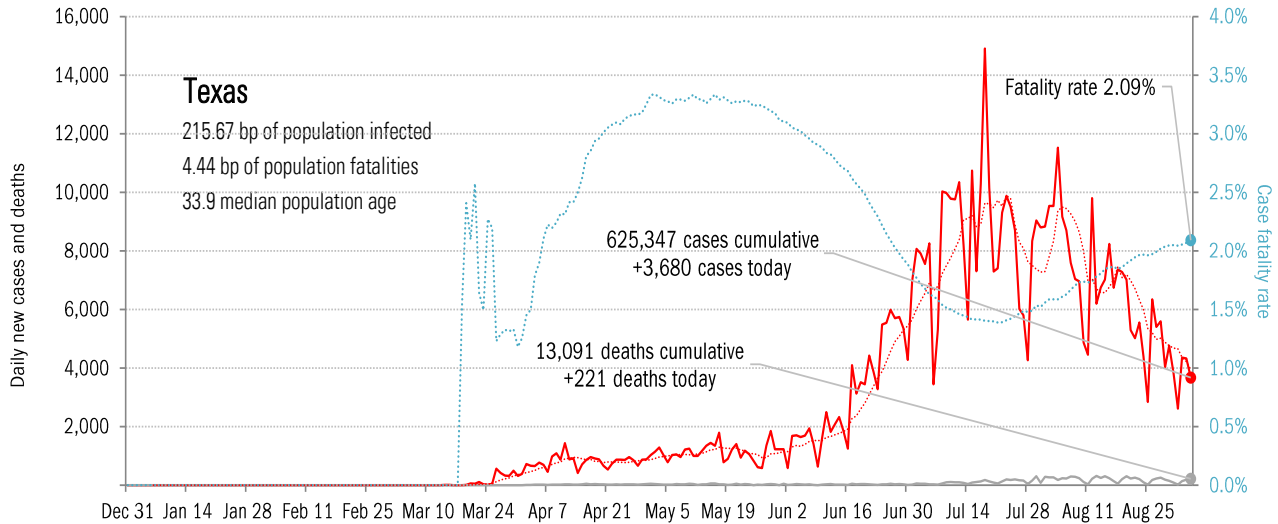
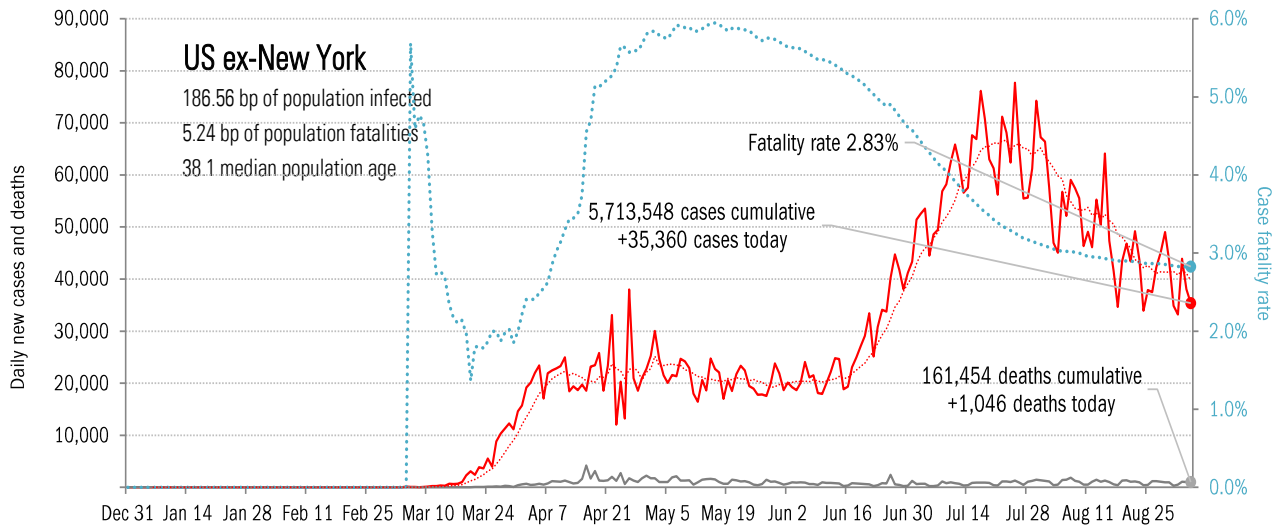
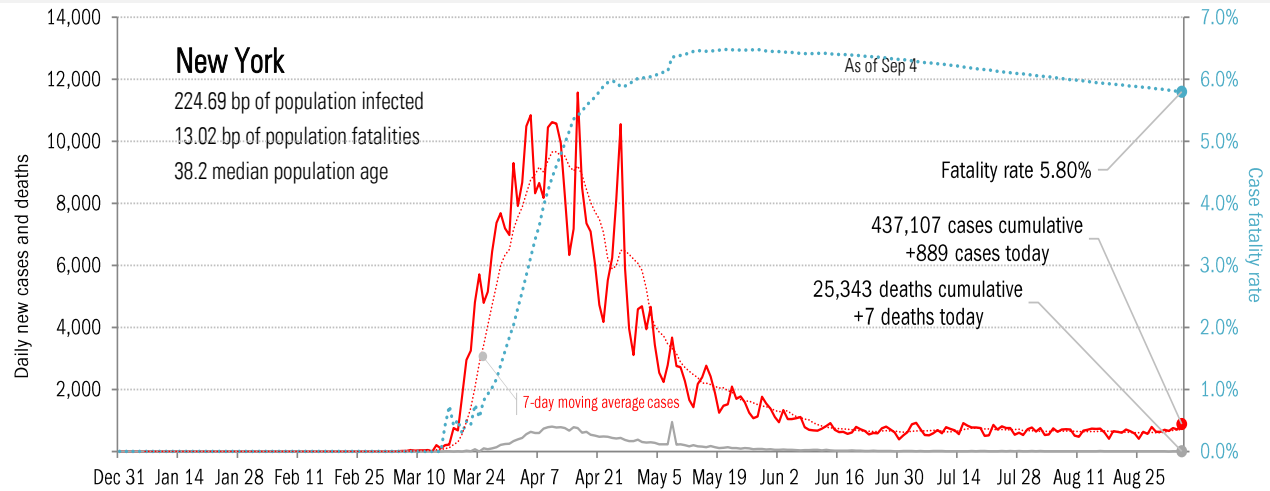


Healthcare system stress, peak and ultimate estimated at each model revision



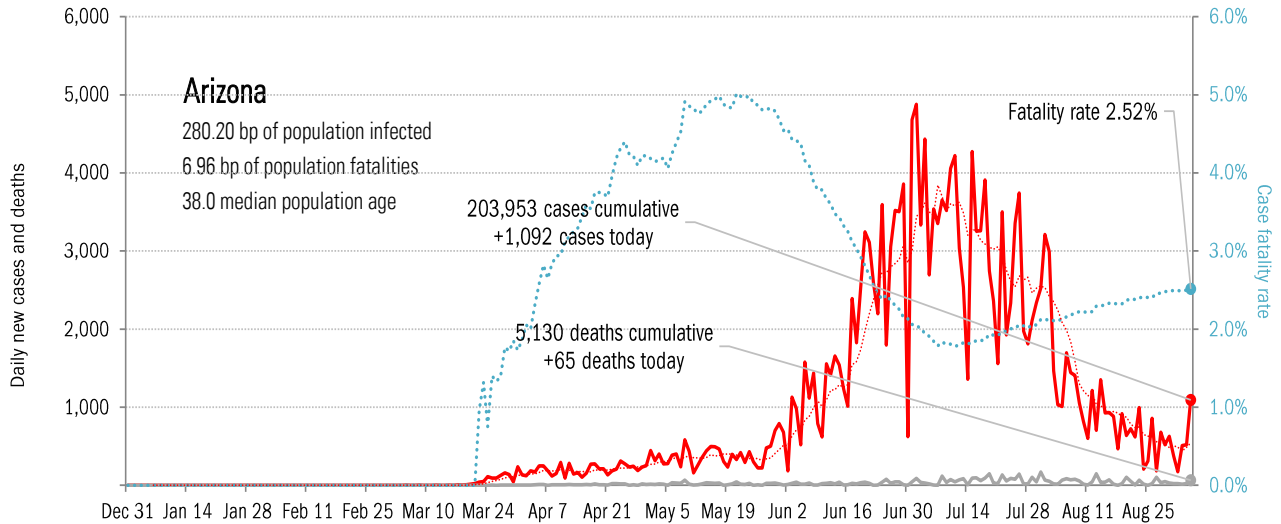
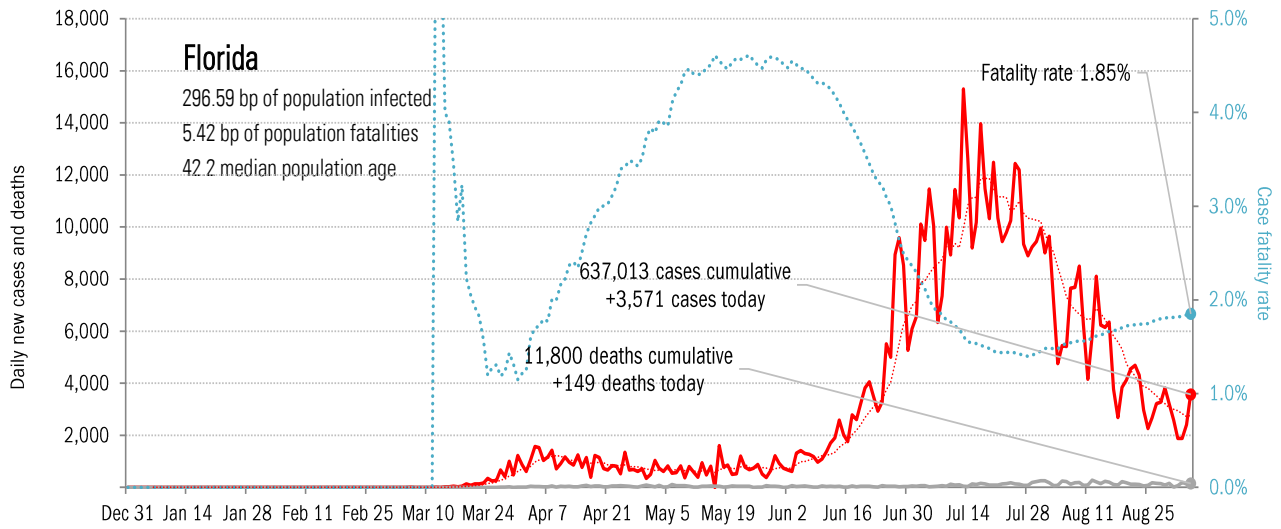
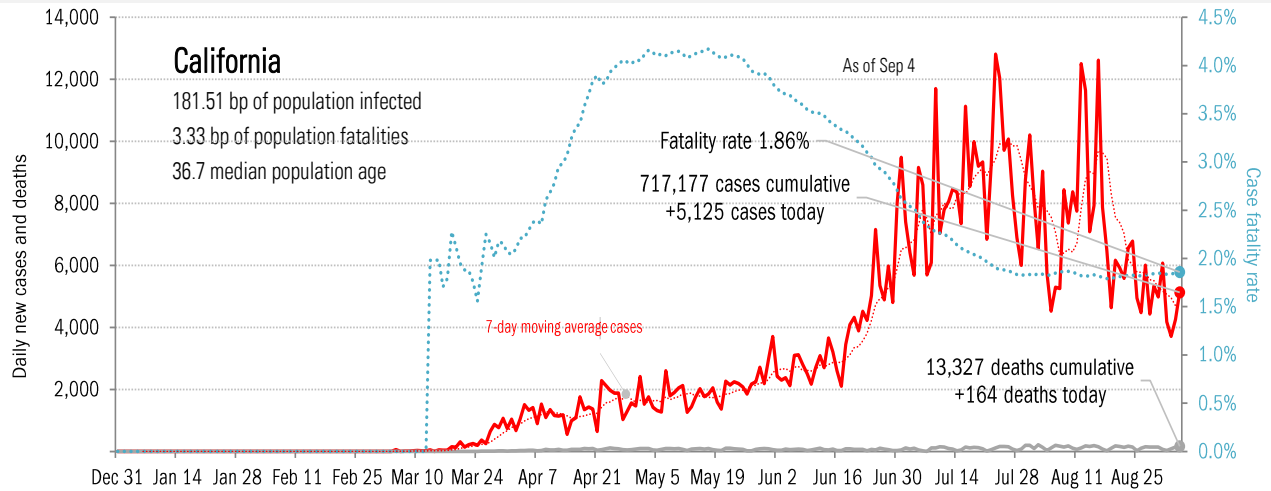
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



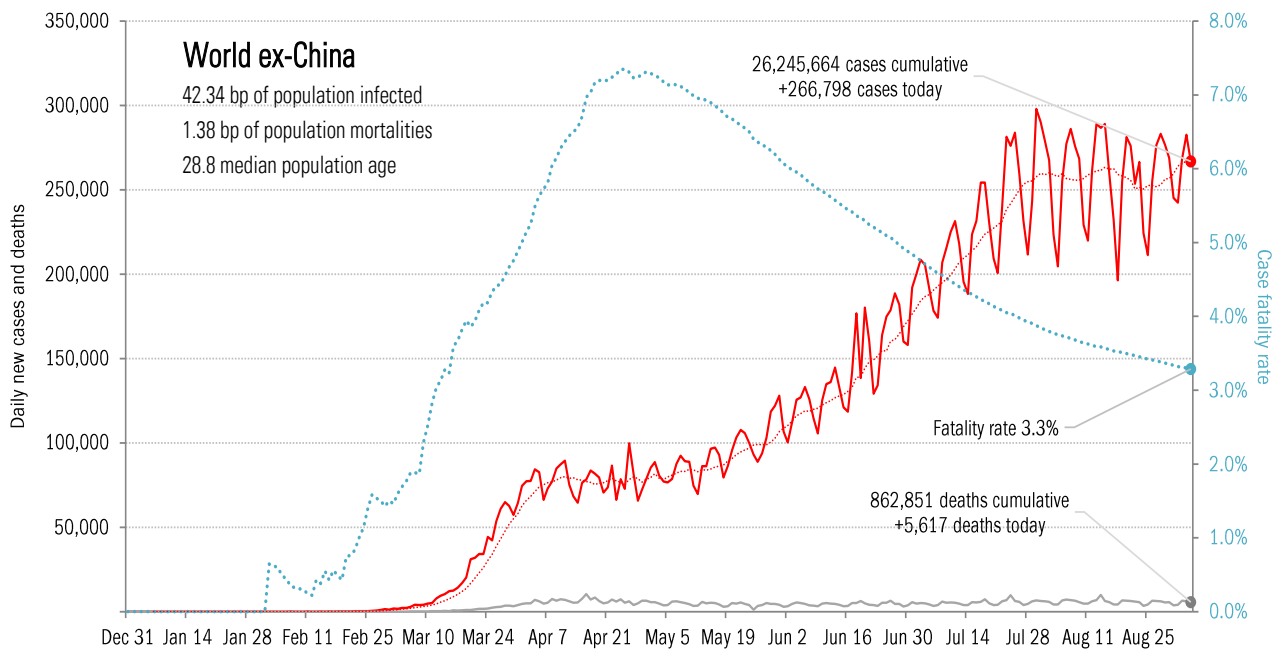
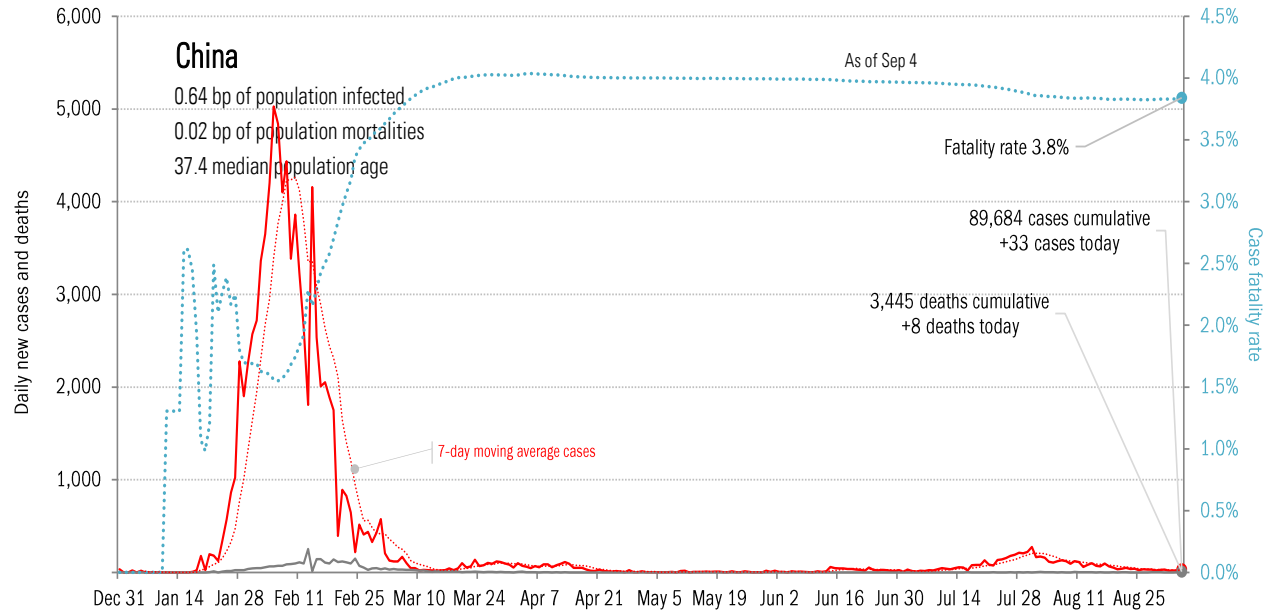
Source: [ECDC](#), TrendMacro calculations

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



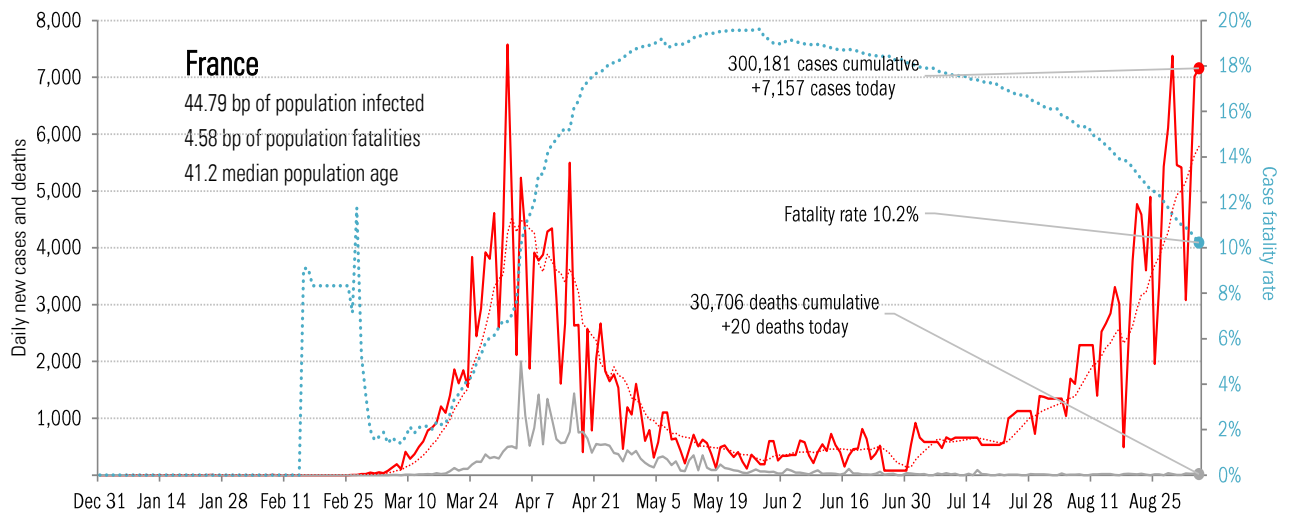
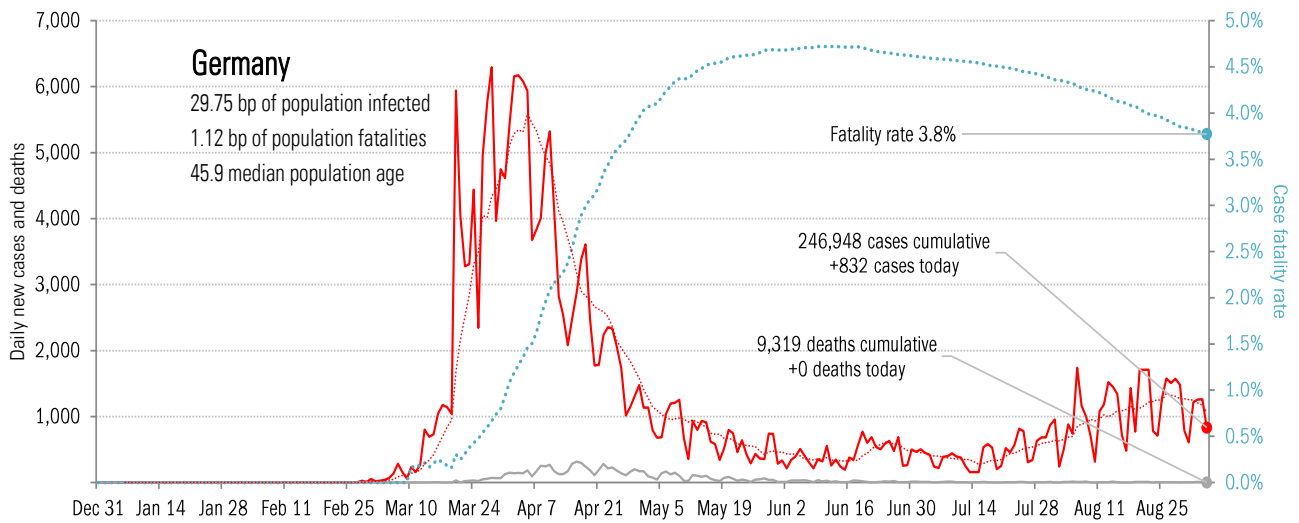
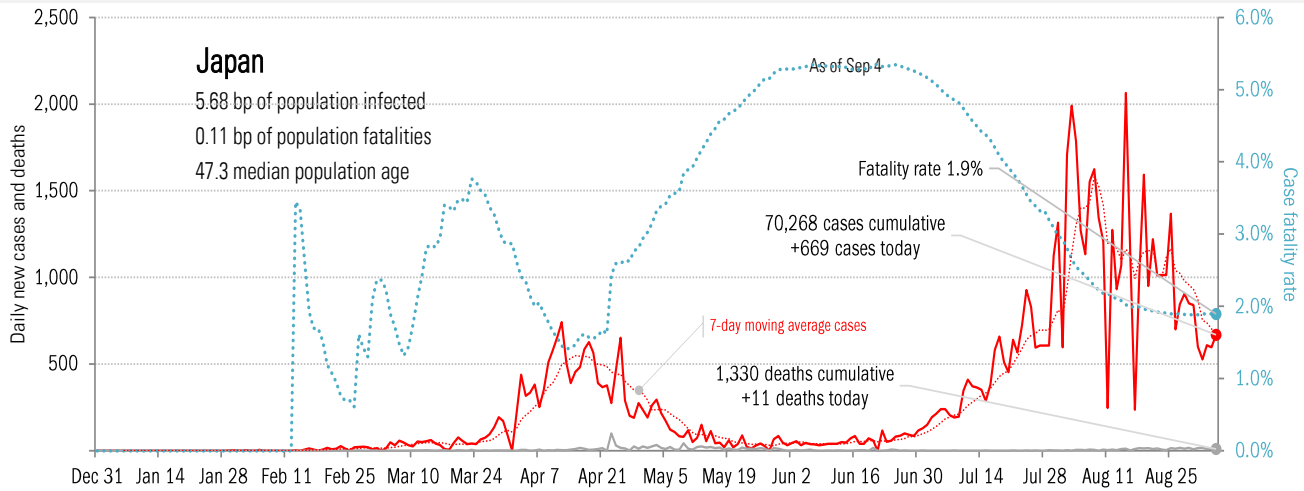
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



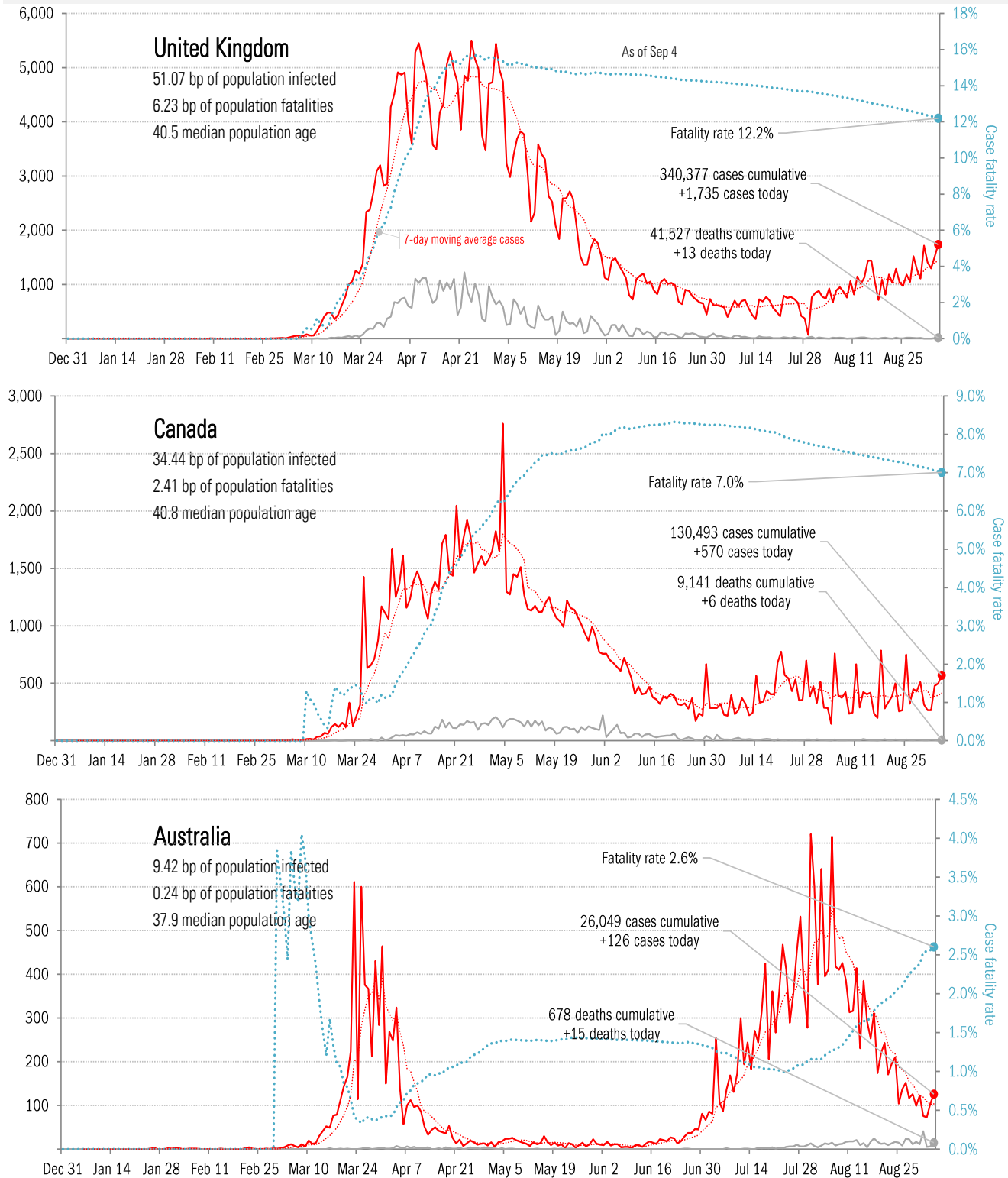
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



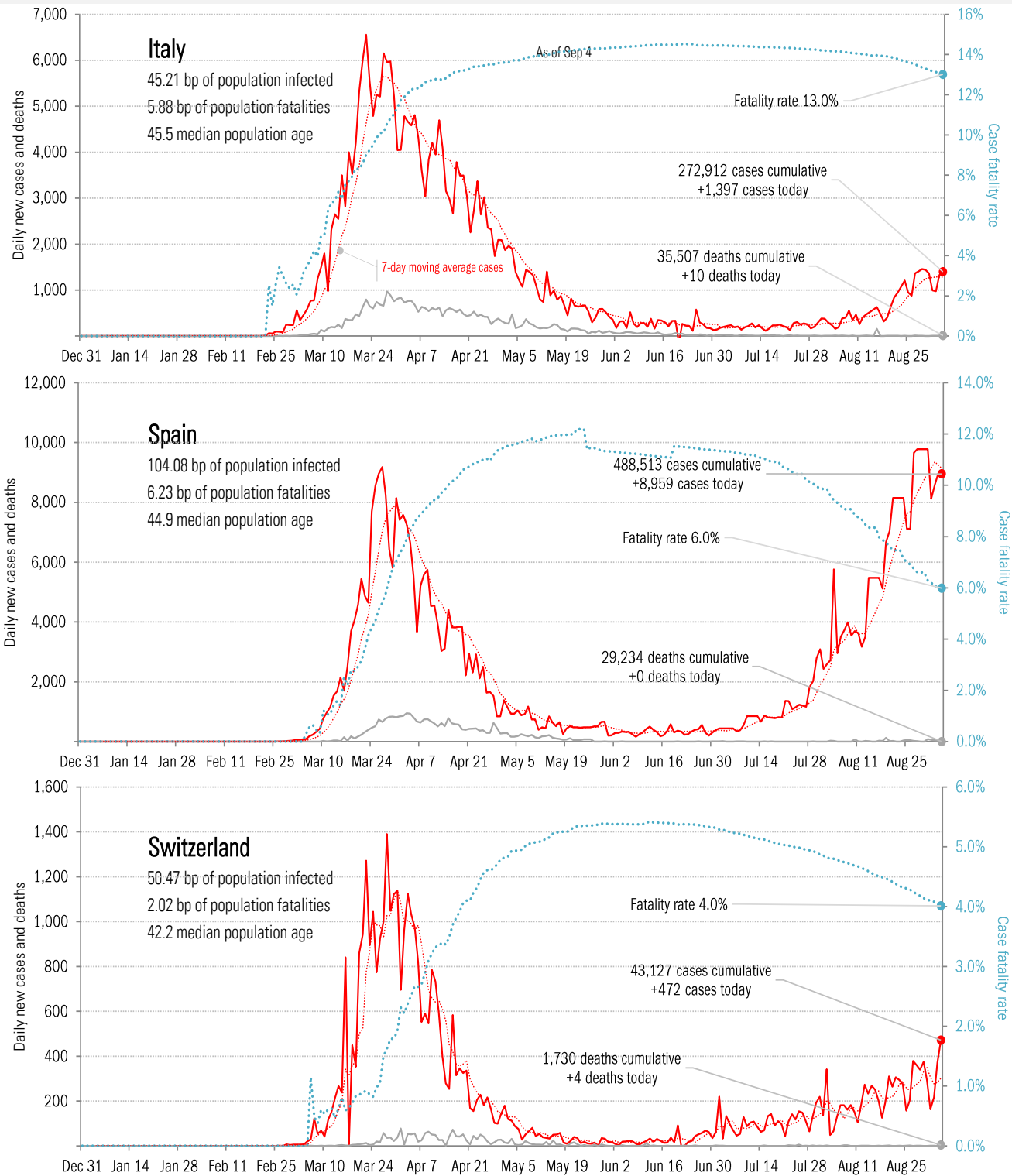
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



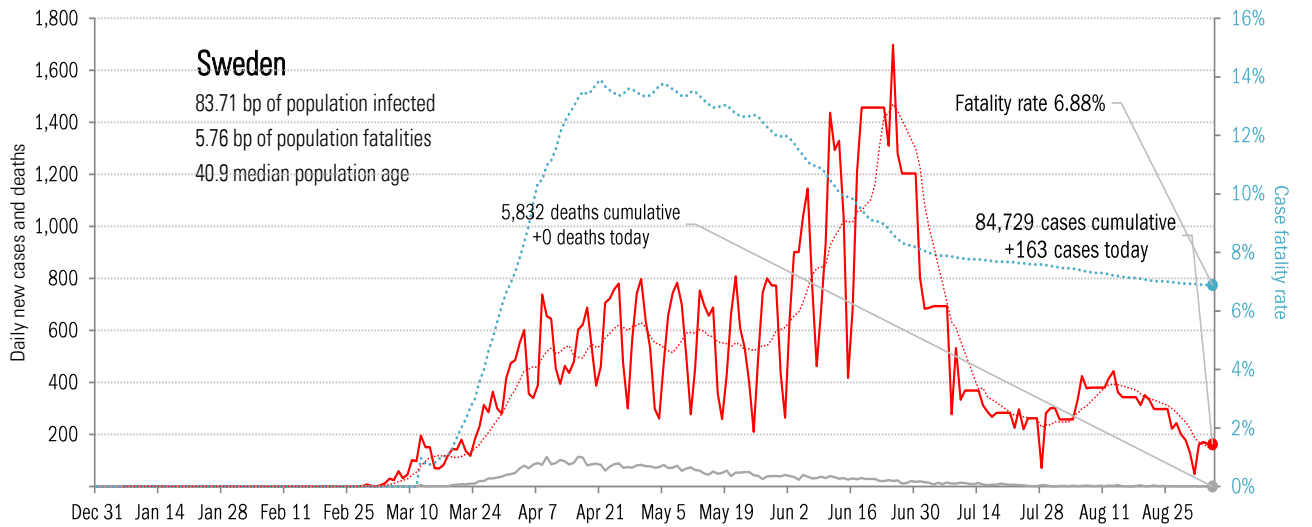
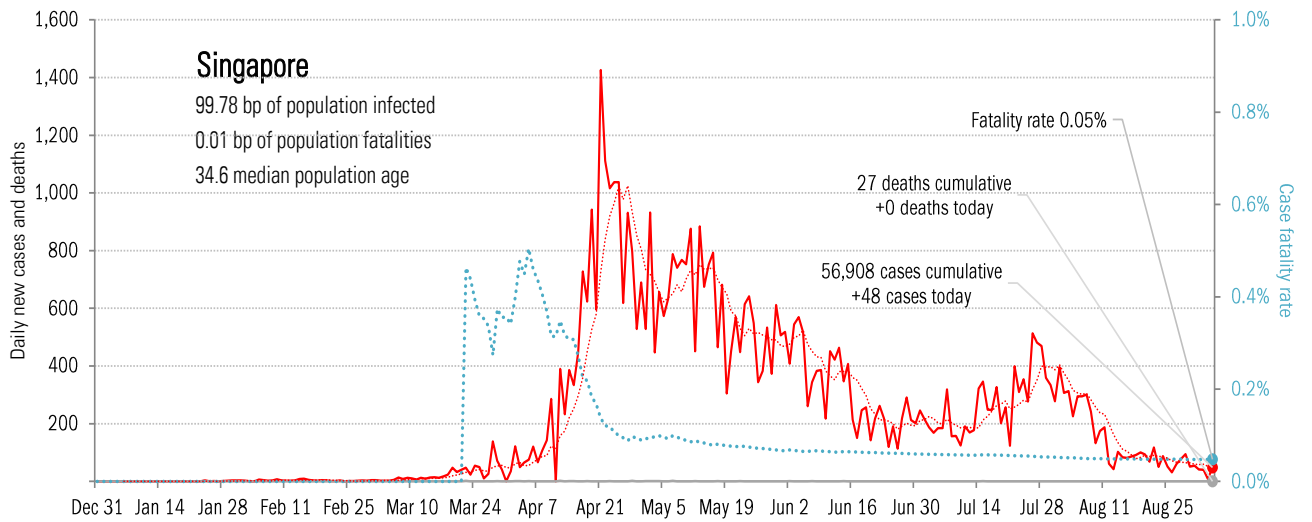
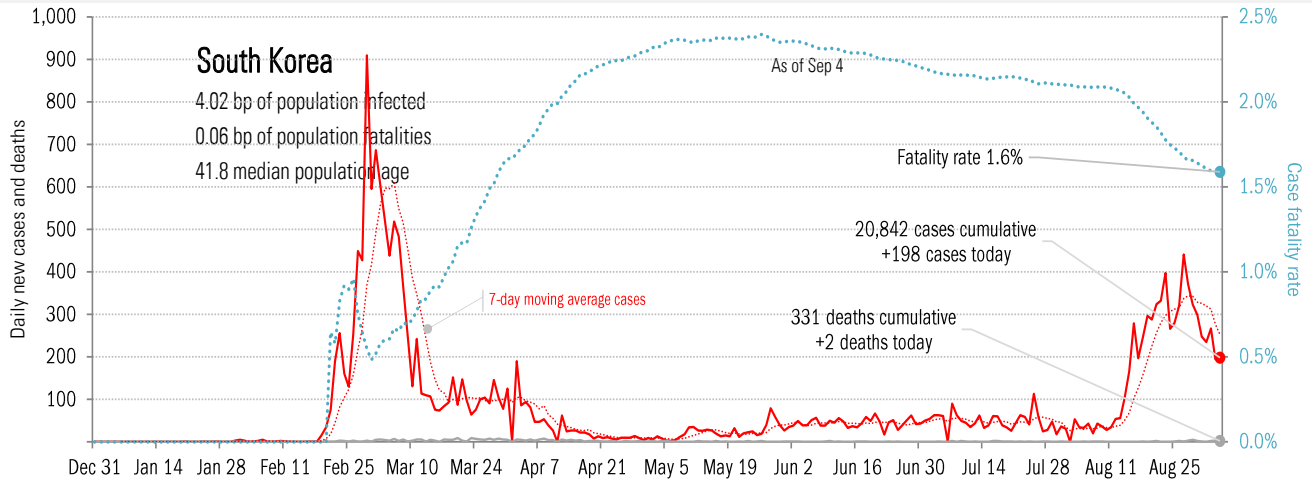
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



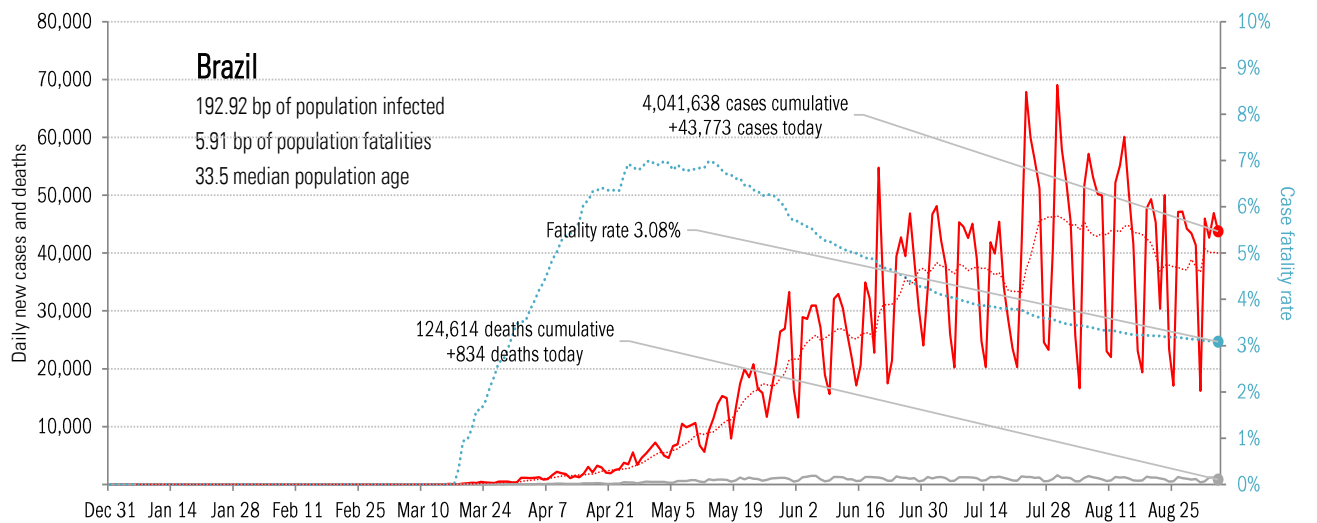
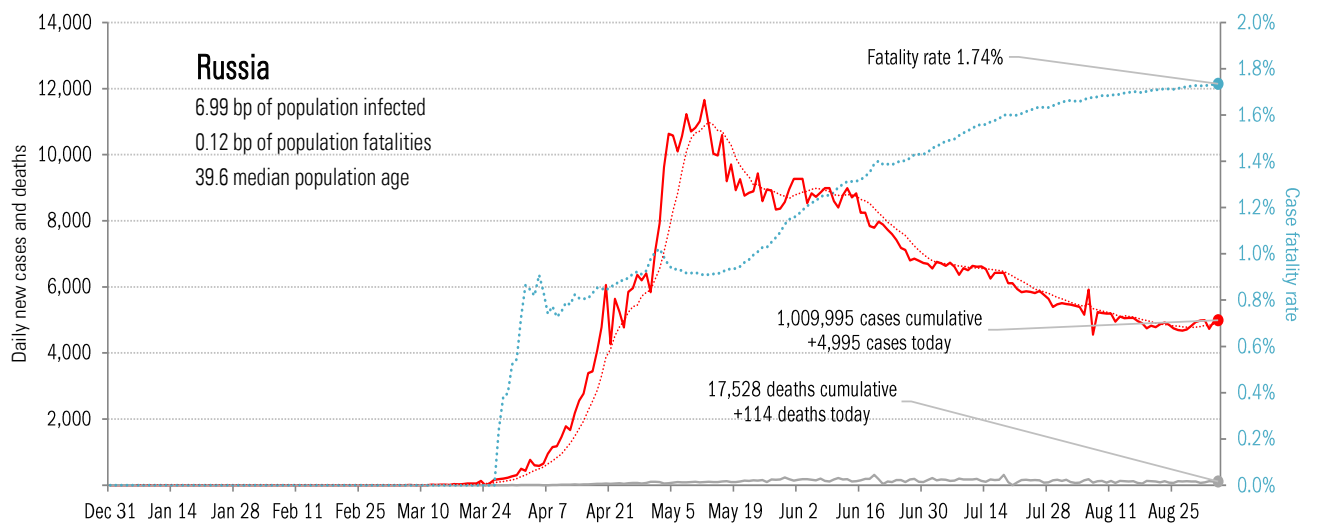
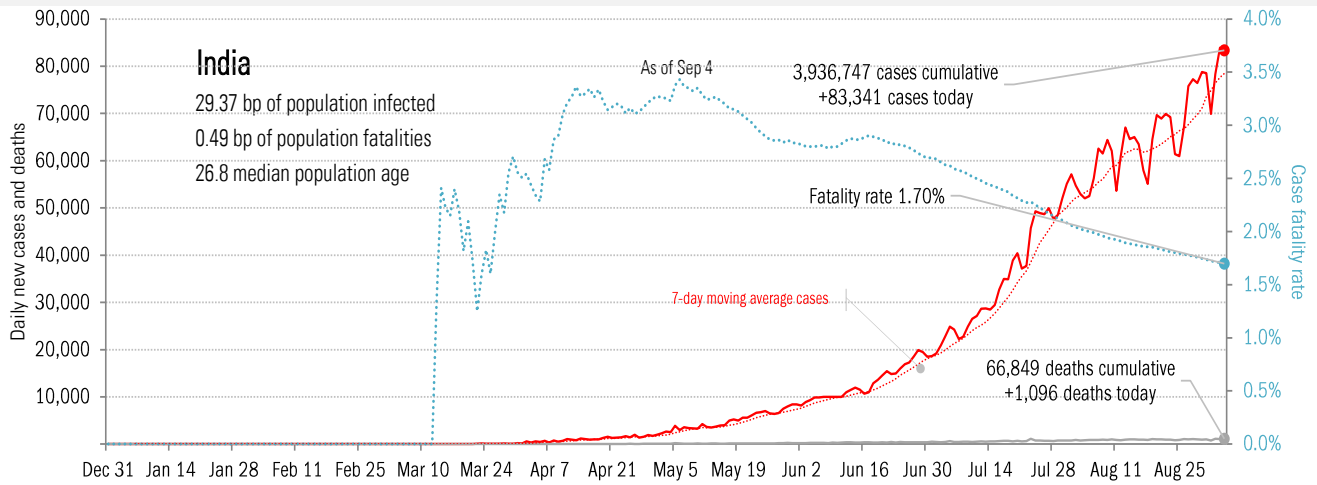
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



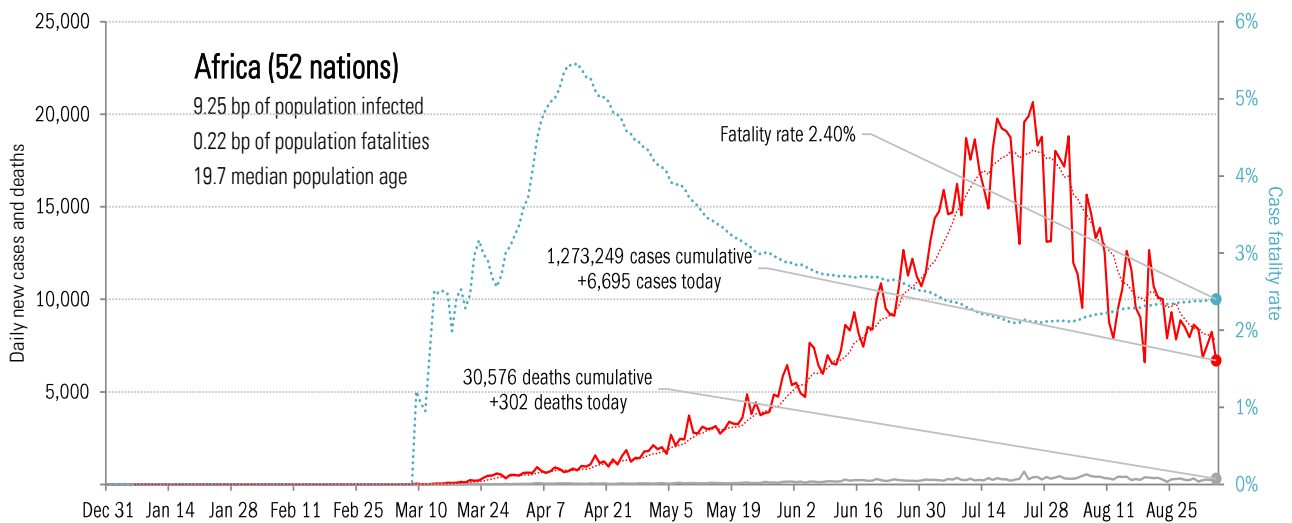
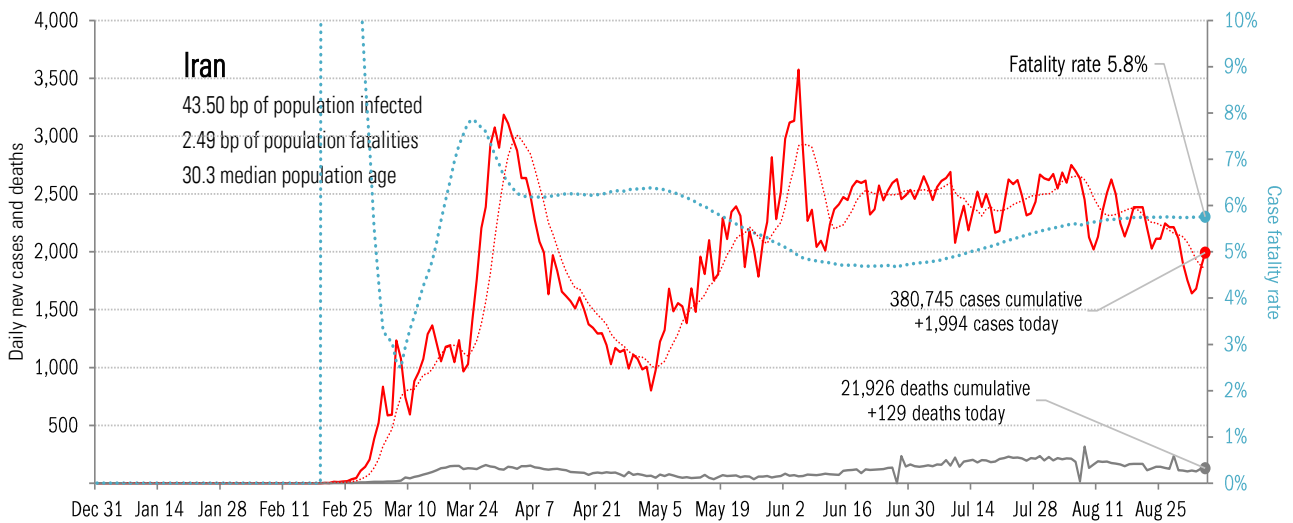
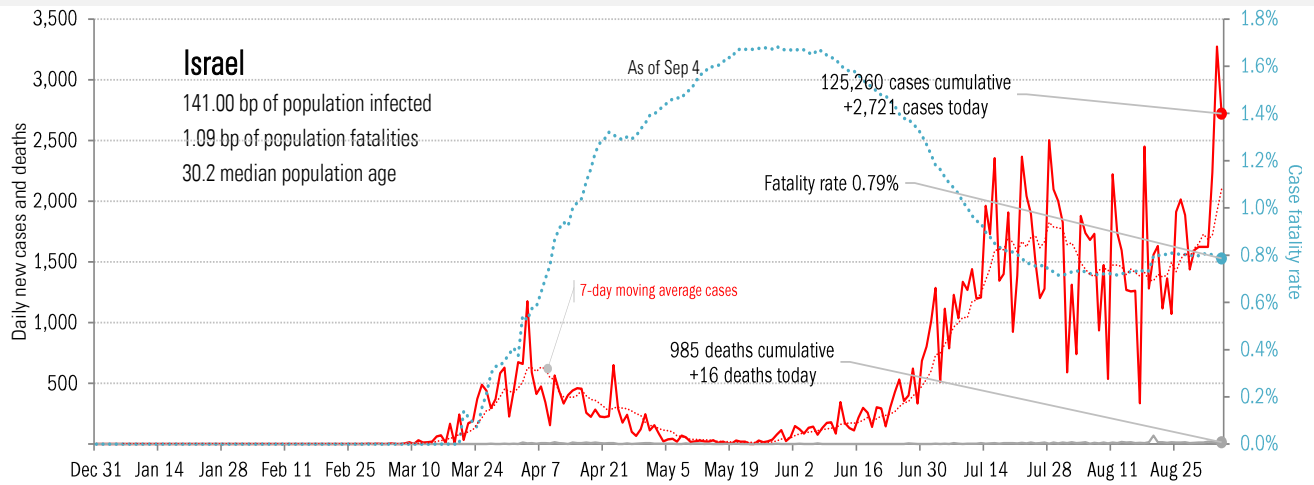
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations