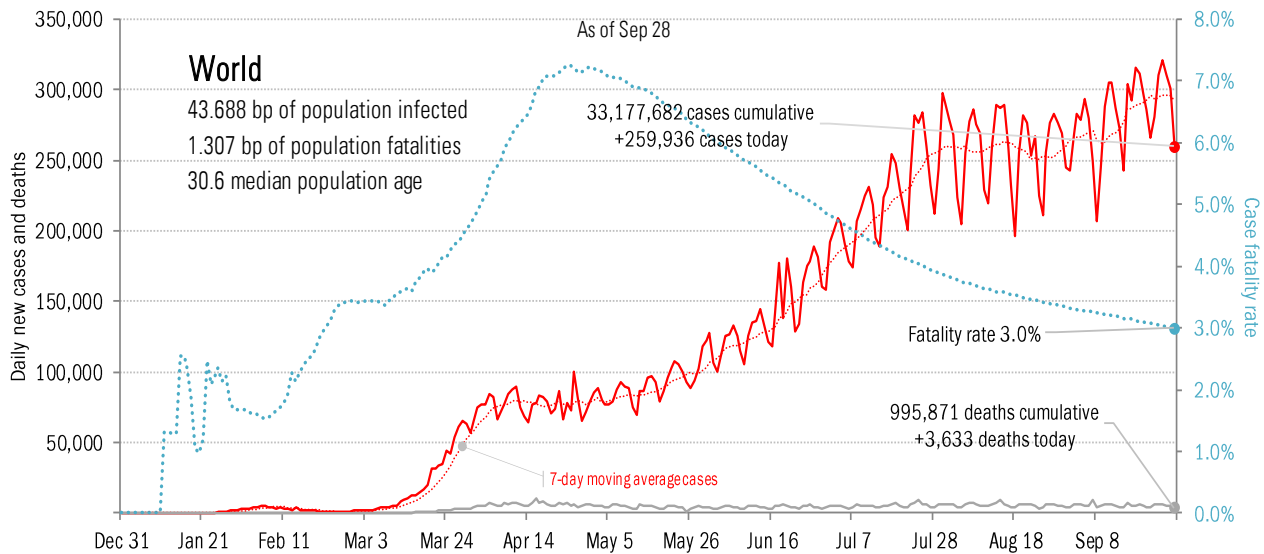
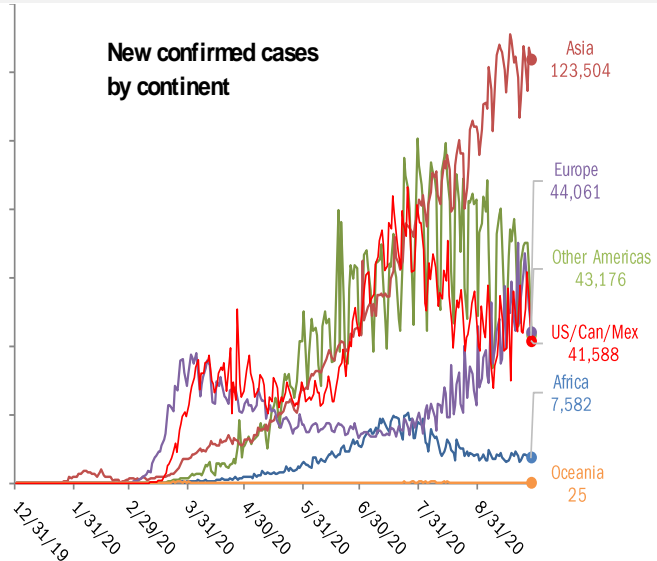


Data Insights: Covid-2019 Monitor

Monday, September 28, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+82,170	India	+1,039
US	+35,289	Brazil	+335
Brazil	+14,318	US	+259
Indonesia	+14,260	Argentina	+206
Spain	+12,272	Iran	+195
France	+11,123	Colombia	+192
Argentina	+8,841	Mexico	+187
Russia	+7,867	Peru	+120
Colombia	+7,018	Russia	+99
UK	+5,692	Indonesia	+78
+198,850		+2,710	
World +259,936		World +3,633	
Top ten 76%		Top ten 75%	



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

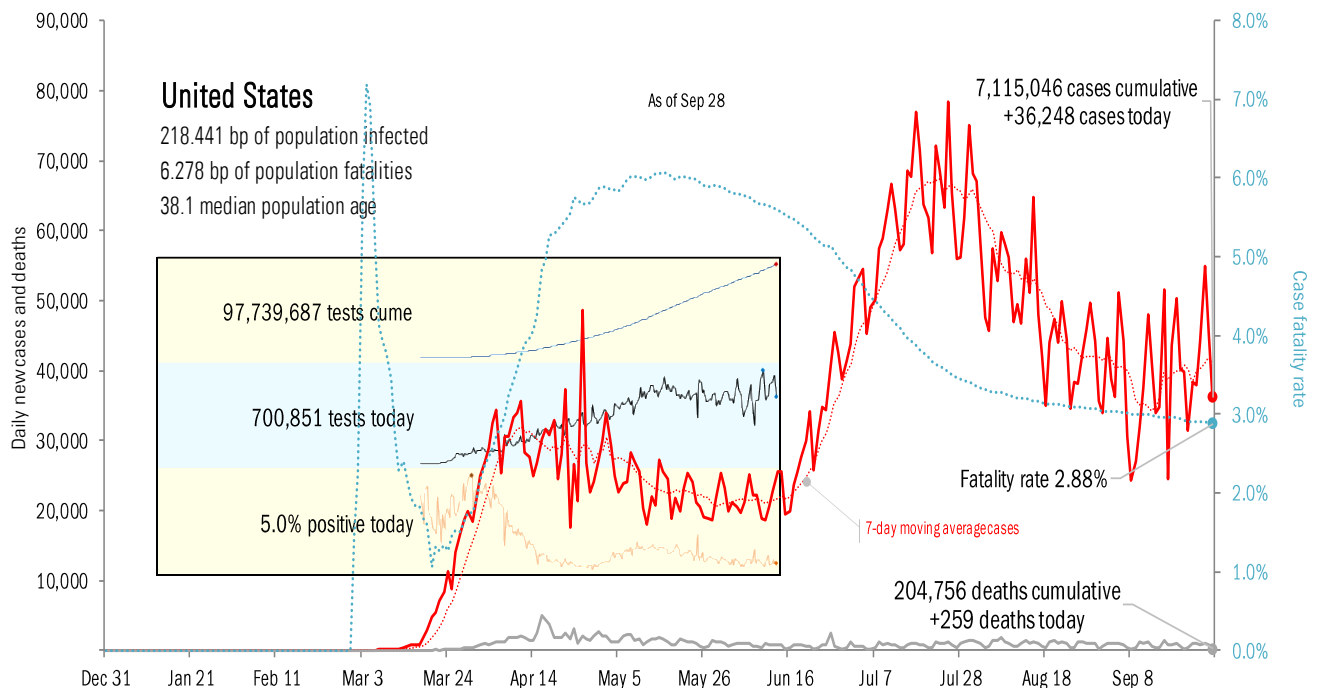
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
CA	+4,071	CA	+55	VA	+132	CA	802,308	NY	25,456	NY	89,995
WI	+2,247	TX	+37	IN	+75	TX	735,132	NJ	16,109	FL	44,030
TN	+2,104	GA	+32	FL	+66	FL	700,564	CA	15,587	GA	28,179
FL	+1,882	AR	+23	WI	+54	NY	455,626	TX	15,522	NJ	23,327
TX	+1,694	LA	+21	MN	+50	GA	314,685	FL	14,202	AZ	22,015
IL	+1,604	VA	+15	TN	+49	IL	290,419	MA	9,404	VA	18,311
MO	+1,392	IL	+13	CO	+41	AZ	217,237	IL	8,845	AL	16,852
NC	+1,290	MA	+13	SD	+39	NC	207,380	PA	8,106	MD	15,398
MN	+1,075	FL	+12	AR	+33	NJ	203,548	MI	7,044	CH	15,216
UT	+1,068	MD	+10	CH	+31	TN	192,995	GA	6,946	MA	12,645
+18,427		+231		+570		4,119,894		127,221		285,968	
All states	+35,289	All states	+307	All states	+758	All states	7,080,459	All states	196,869	All states	404,083
Top ten	52%	Top ten	75%	Top ten	75%	Top ten	58%	Top ten	65%	Top ten	71%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TX	-3,192	FL	-95	FL	-105	H	+4,729
MI	-996	TX	-84	GA	-92	TX	+2,796
CK	-990	CA	-79	CK	-60	WI	+1,419
FL	-913	MO	-69	KY	-46	TN	+1,099
IL	-837	AZ	-34	MD	-38	MN	+993



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

Recommended reading

[Covid Death Toll Nears 1 Million, But Real Number May Be Double](#)

Lisa Du
Bloomberg
September 24, 2020

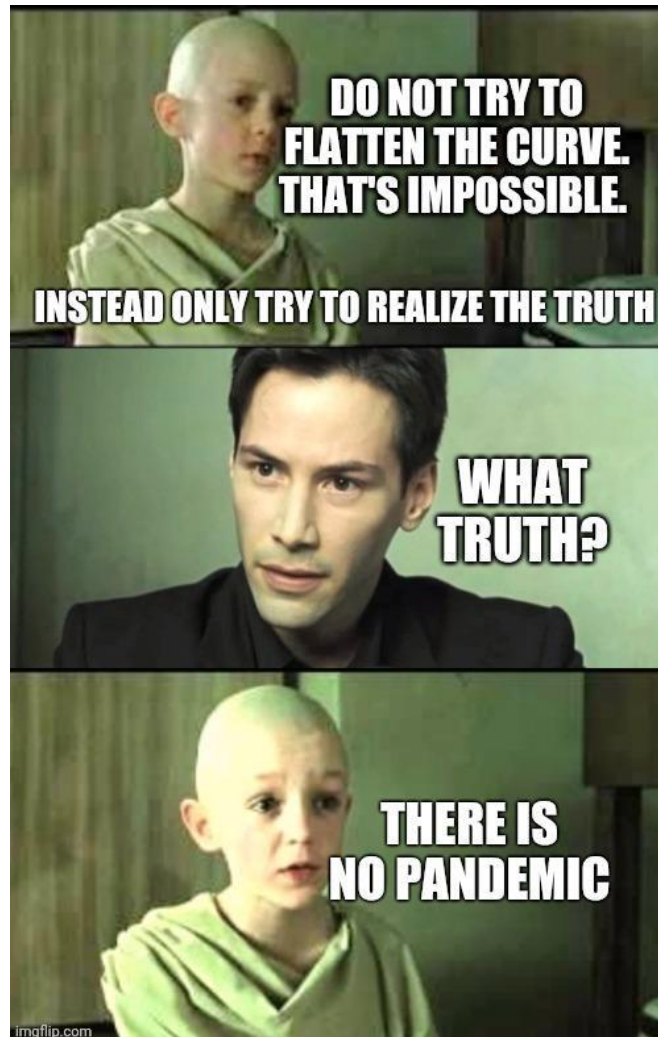
[Dynamic Change of COVID-19 Seroprevalence among Asymptomatic Population in Tokyo during the Second Wave](#)

Sawako Hibino et al.
medRxiv
September 23, 2020

[Landlords Have Bills Too](#)

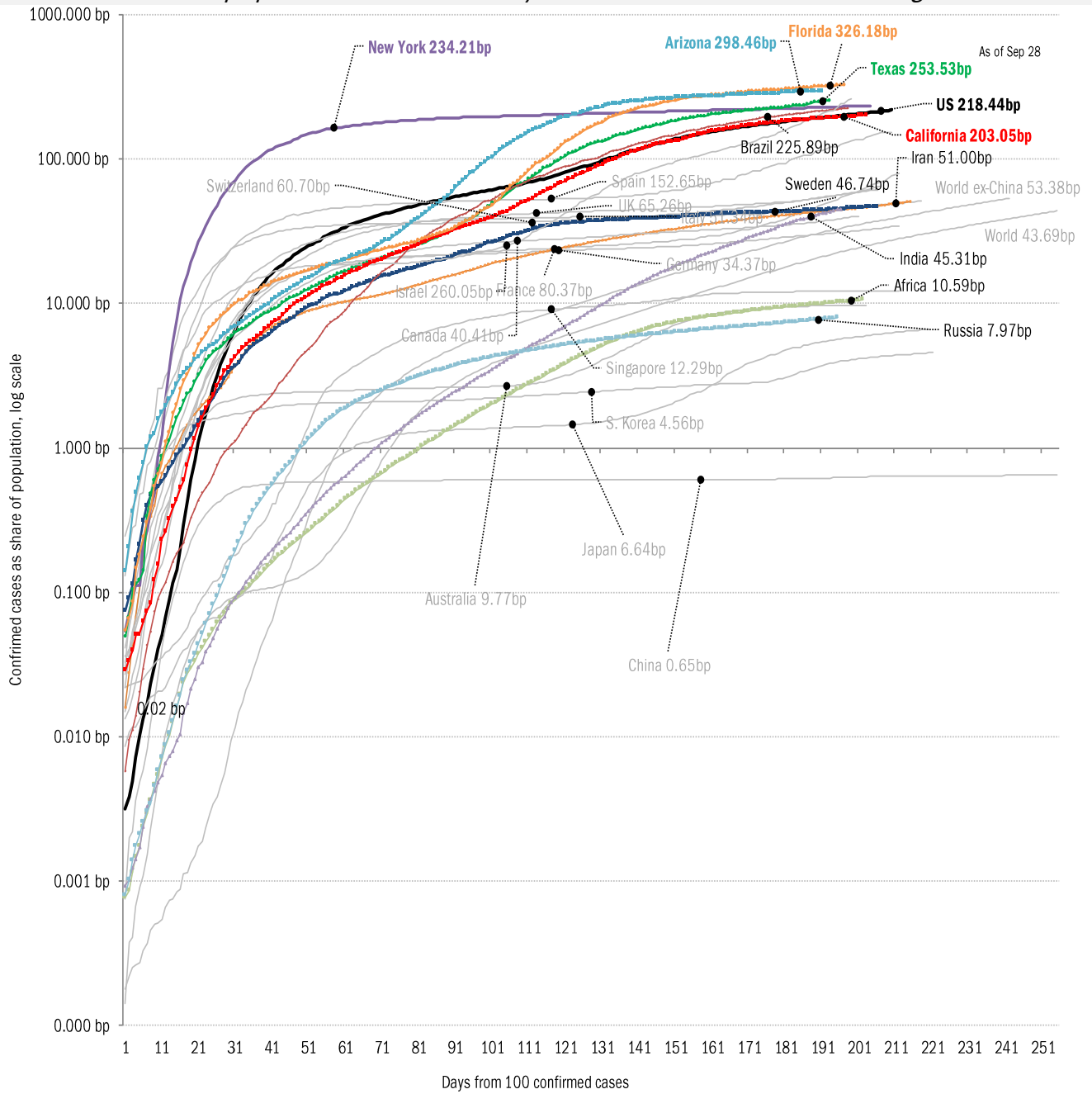
Bert Stratton
Wall Street Journal
September 27, 2020

Meme of day



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

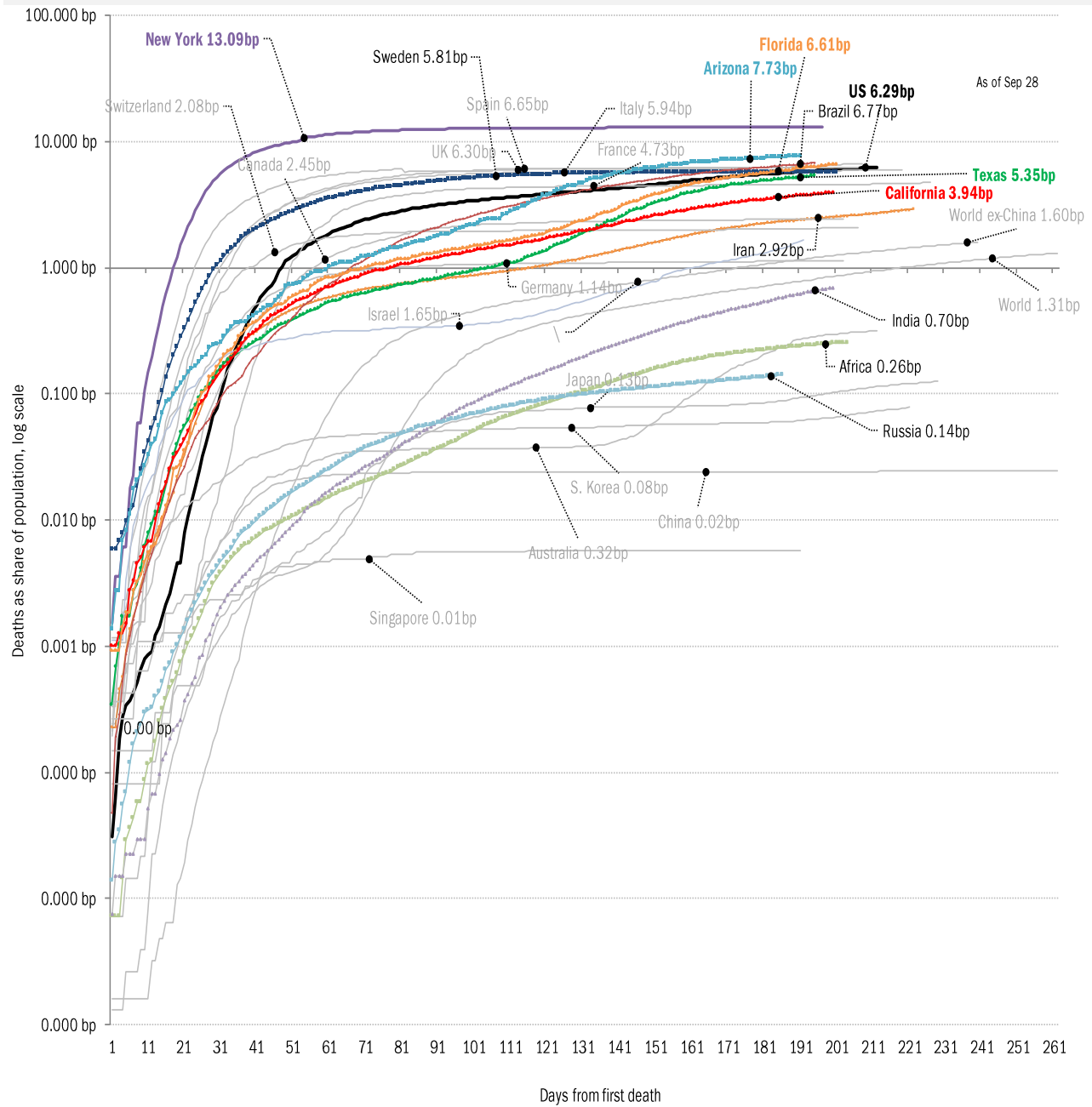
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

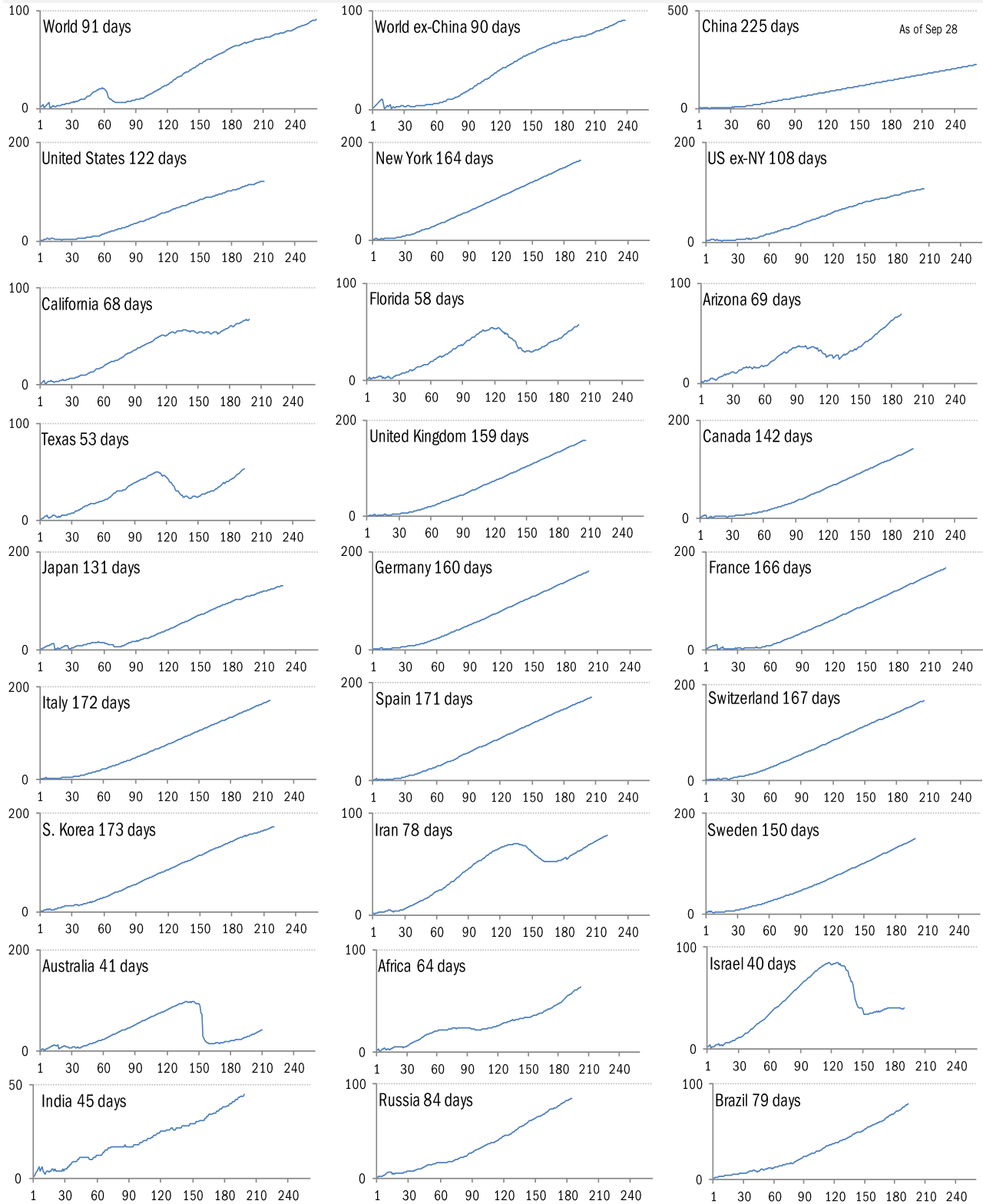


Source: [ECDC](#), TrendMacro calculations

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

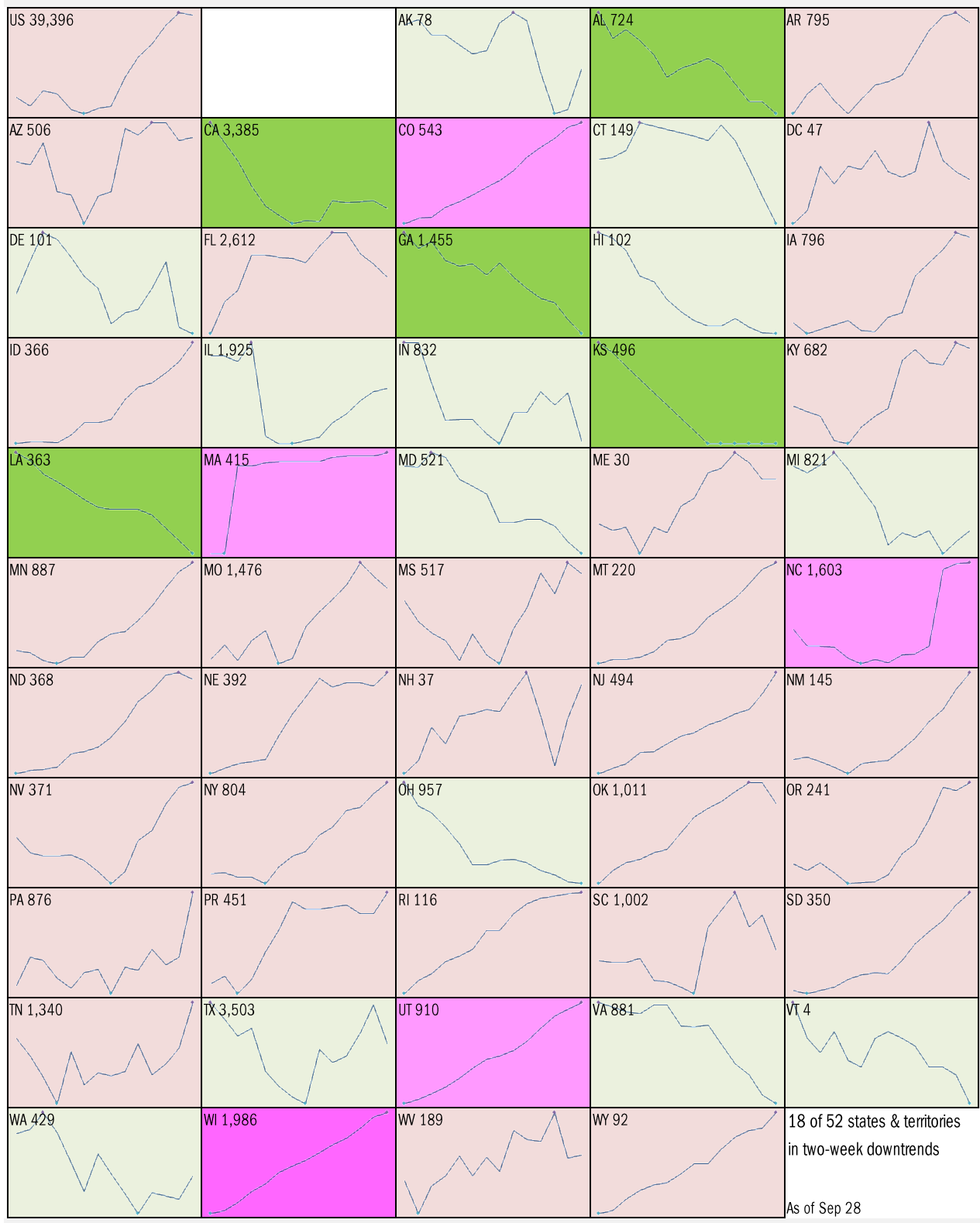
Vertical: days to double deaths Horizontal: days from first death

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



Source: [ECDC](https://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

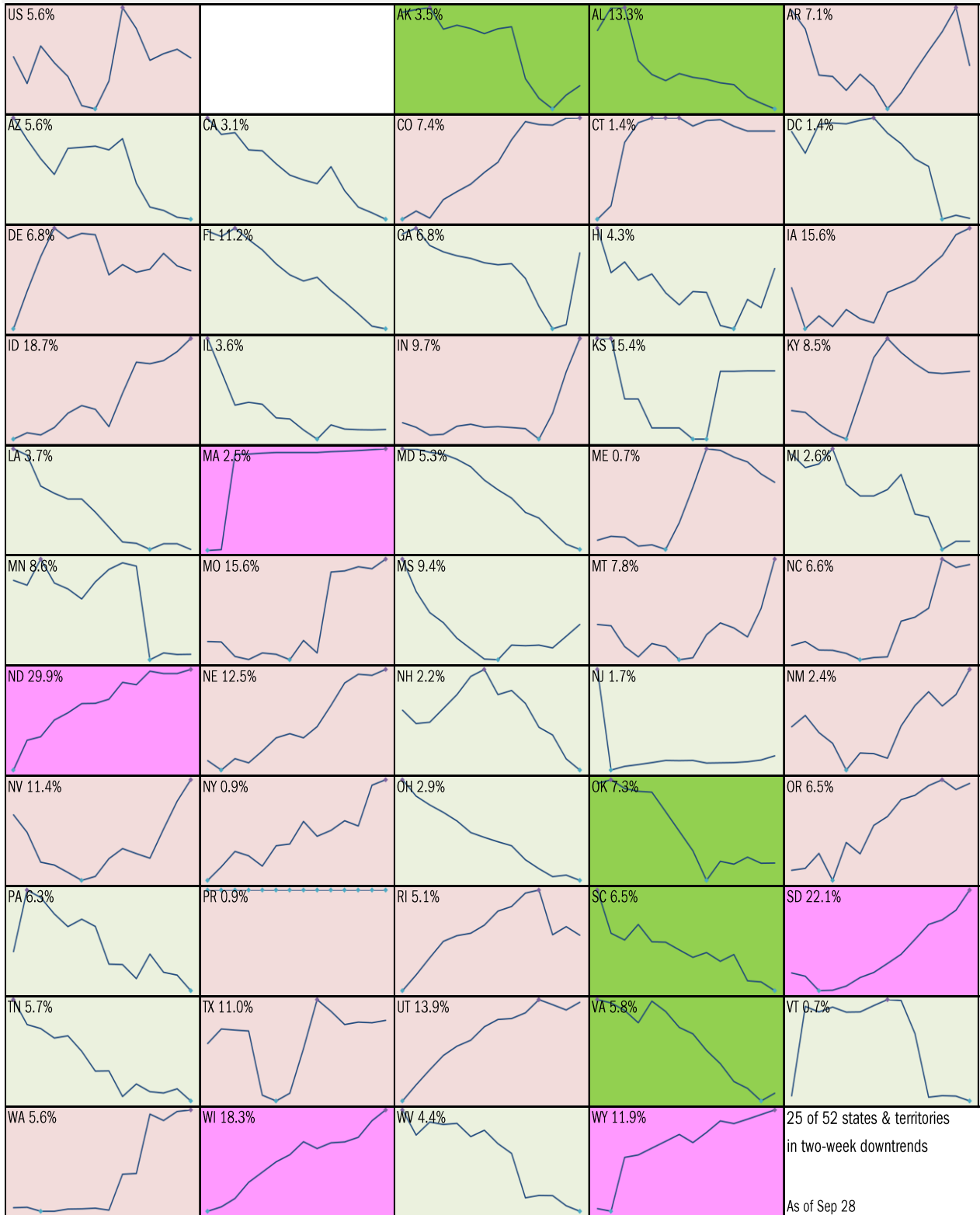


Source: [Covid Tracking Project](#), TrendMacro calculations

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



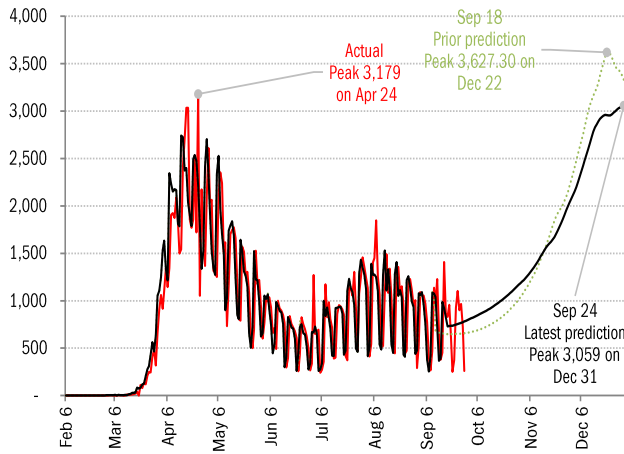
Source: [Covid Tracking Project](#), TrendMacro calculations

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

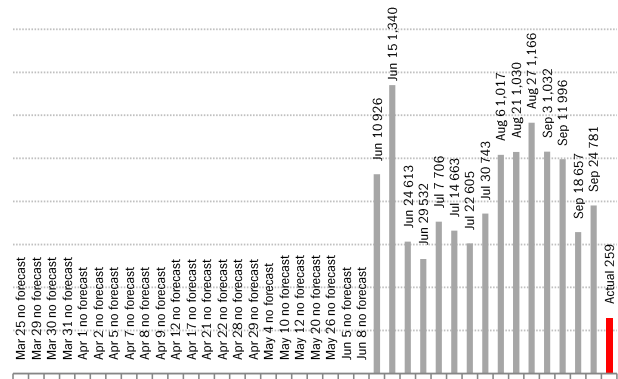
New daily fatalities

As of Sep 28

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

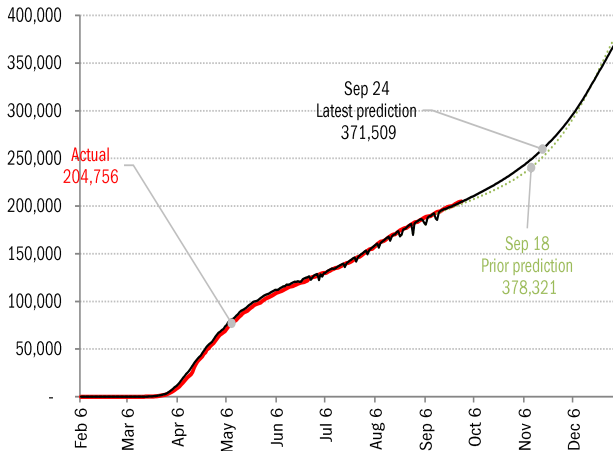


For this day, versus all model mean predictions

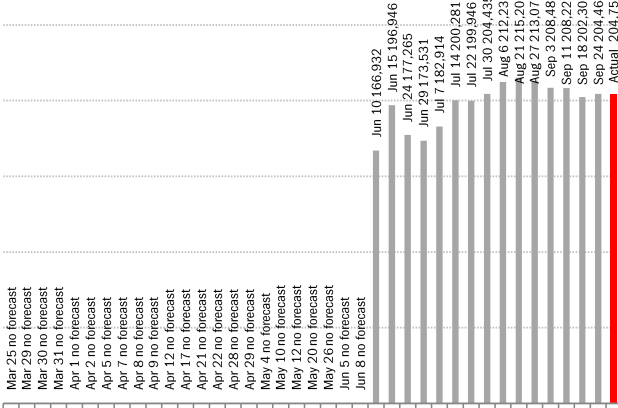


Cumulative fatalities

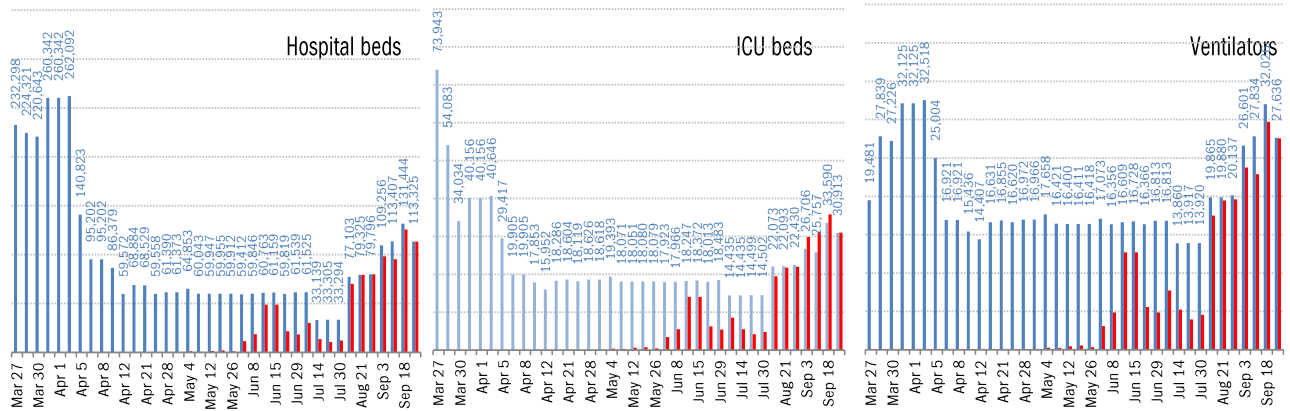
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

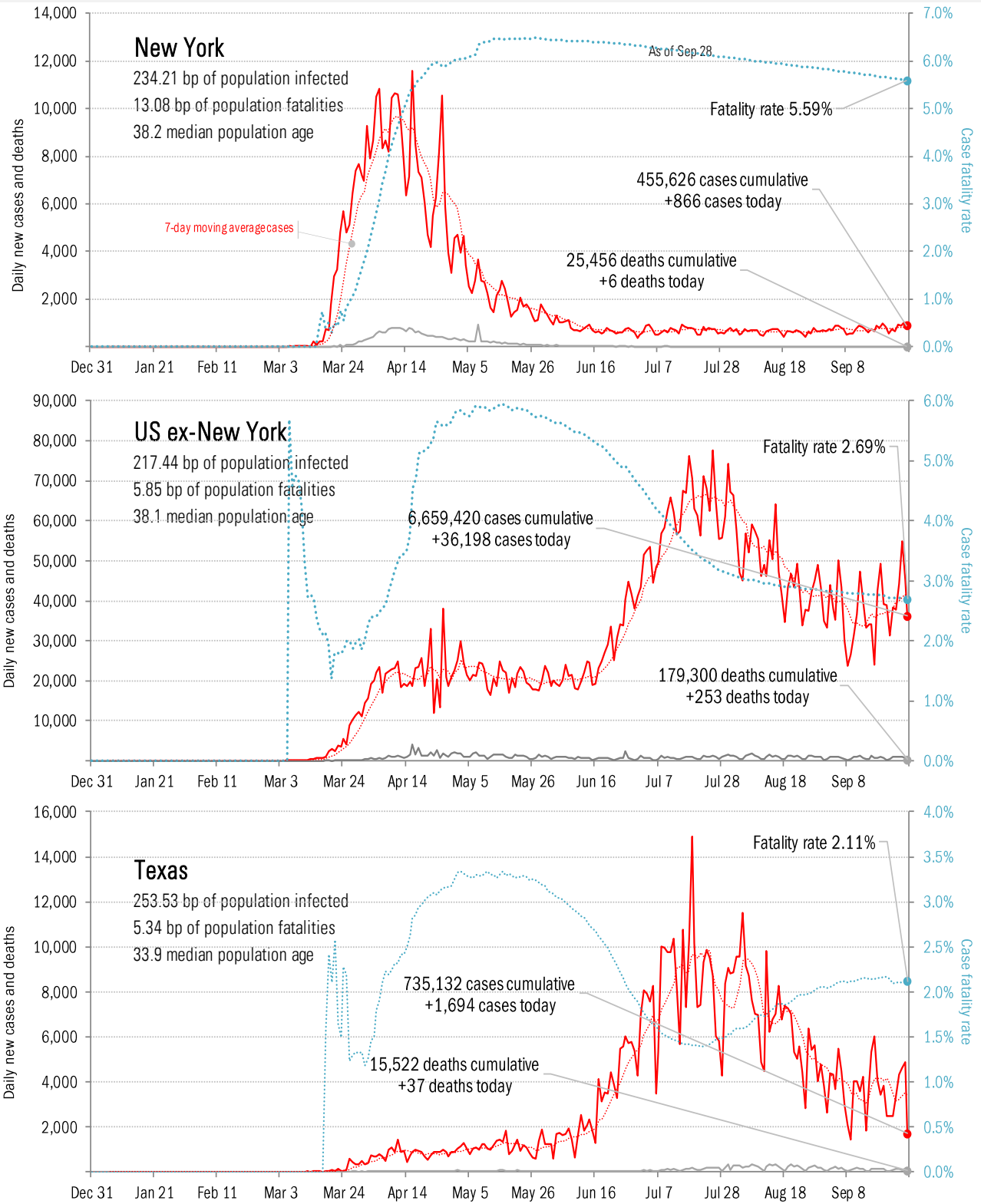


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



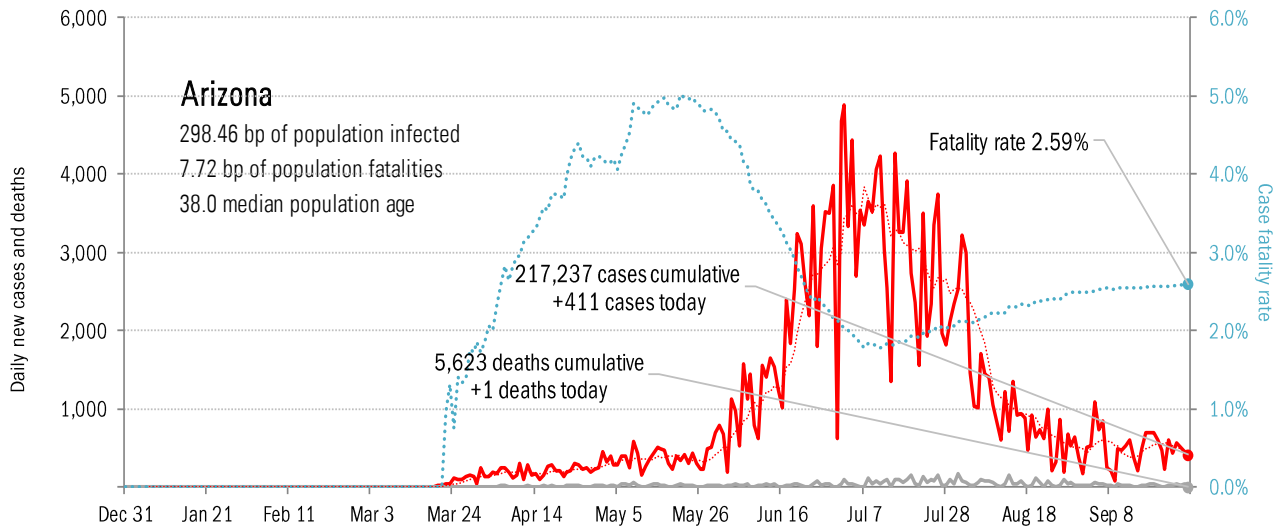
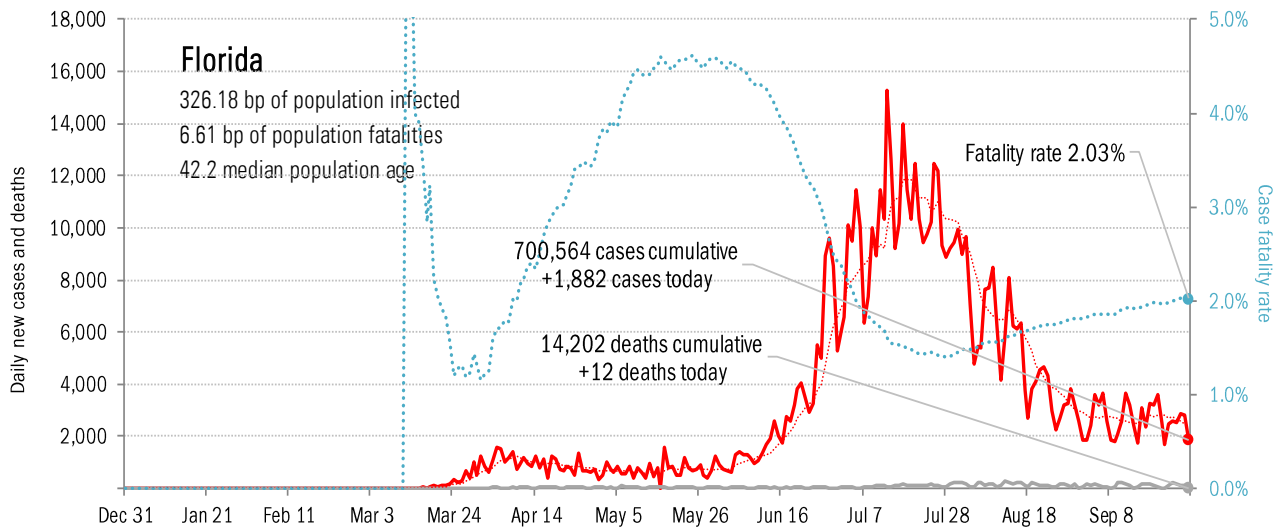
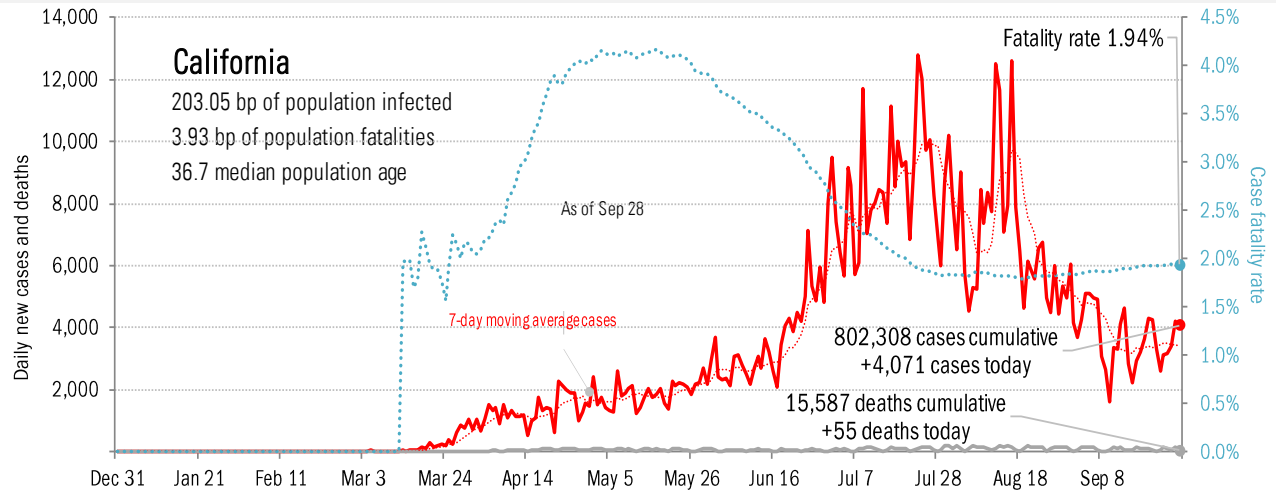
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



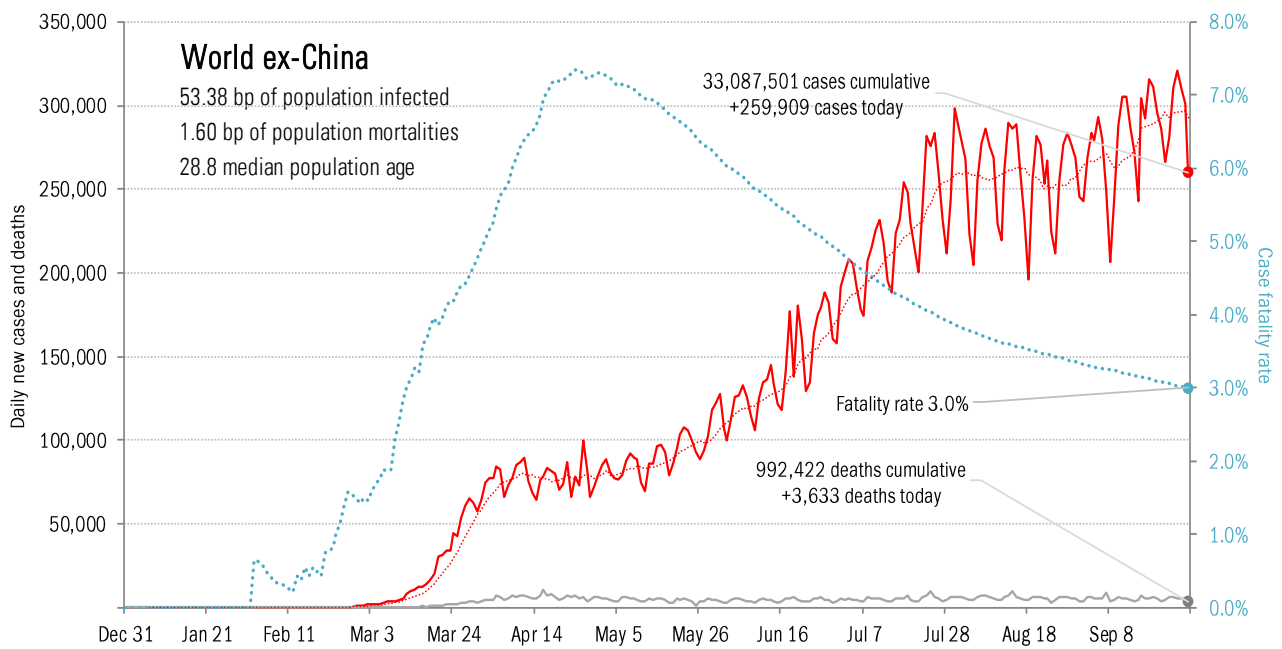
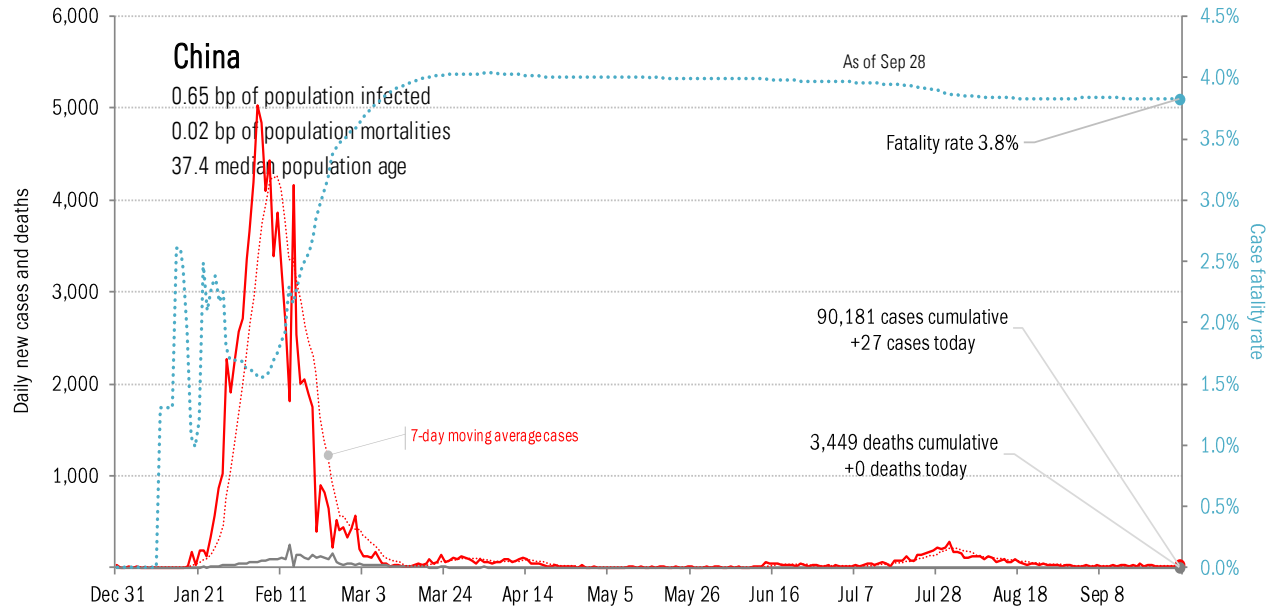
Source: [ECDC](#), TrendMacro calculations

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



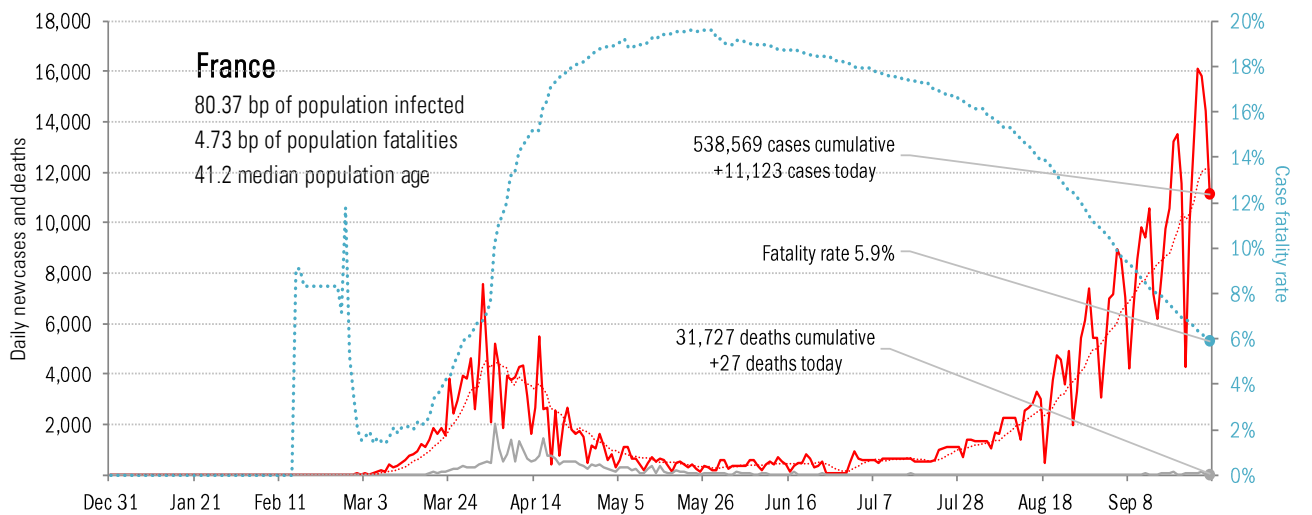
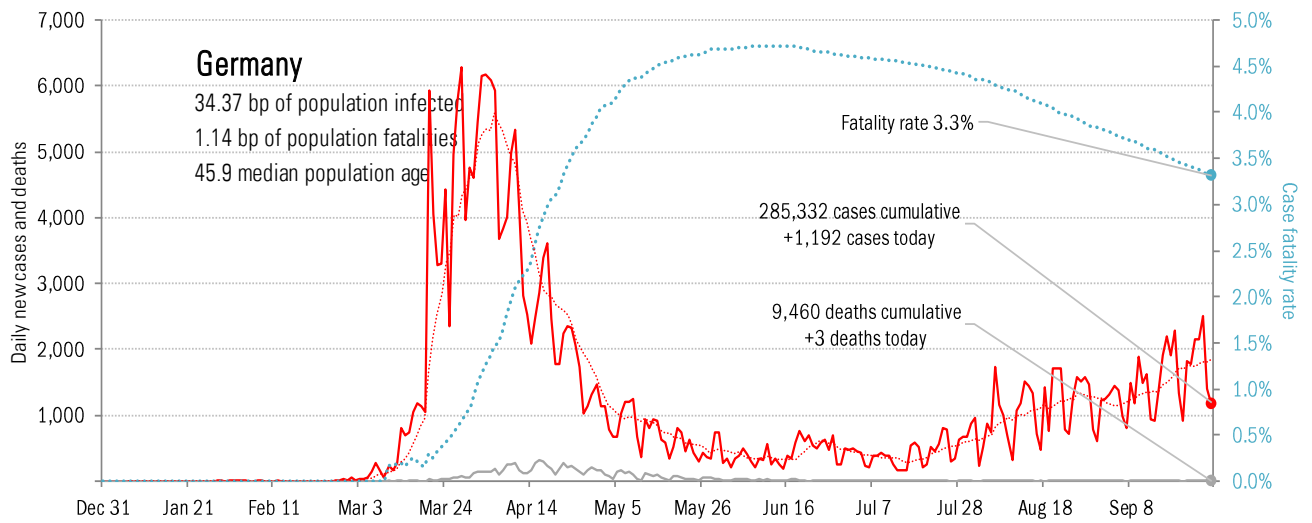
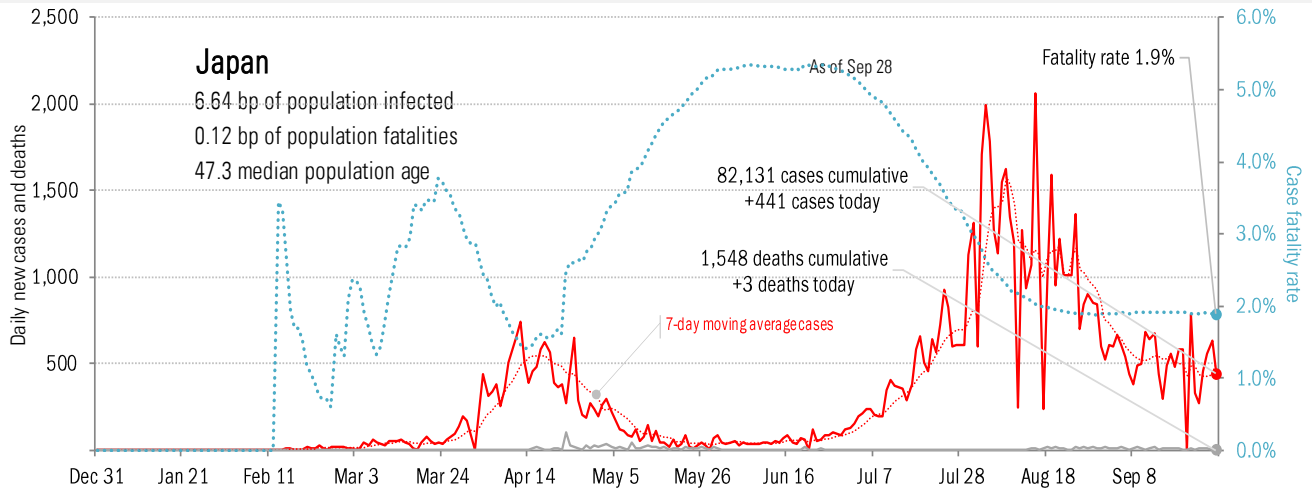
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



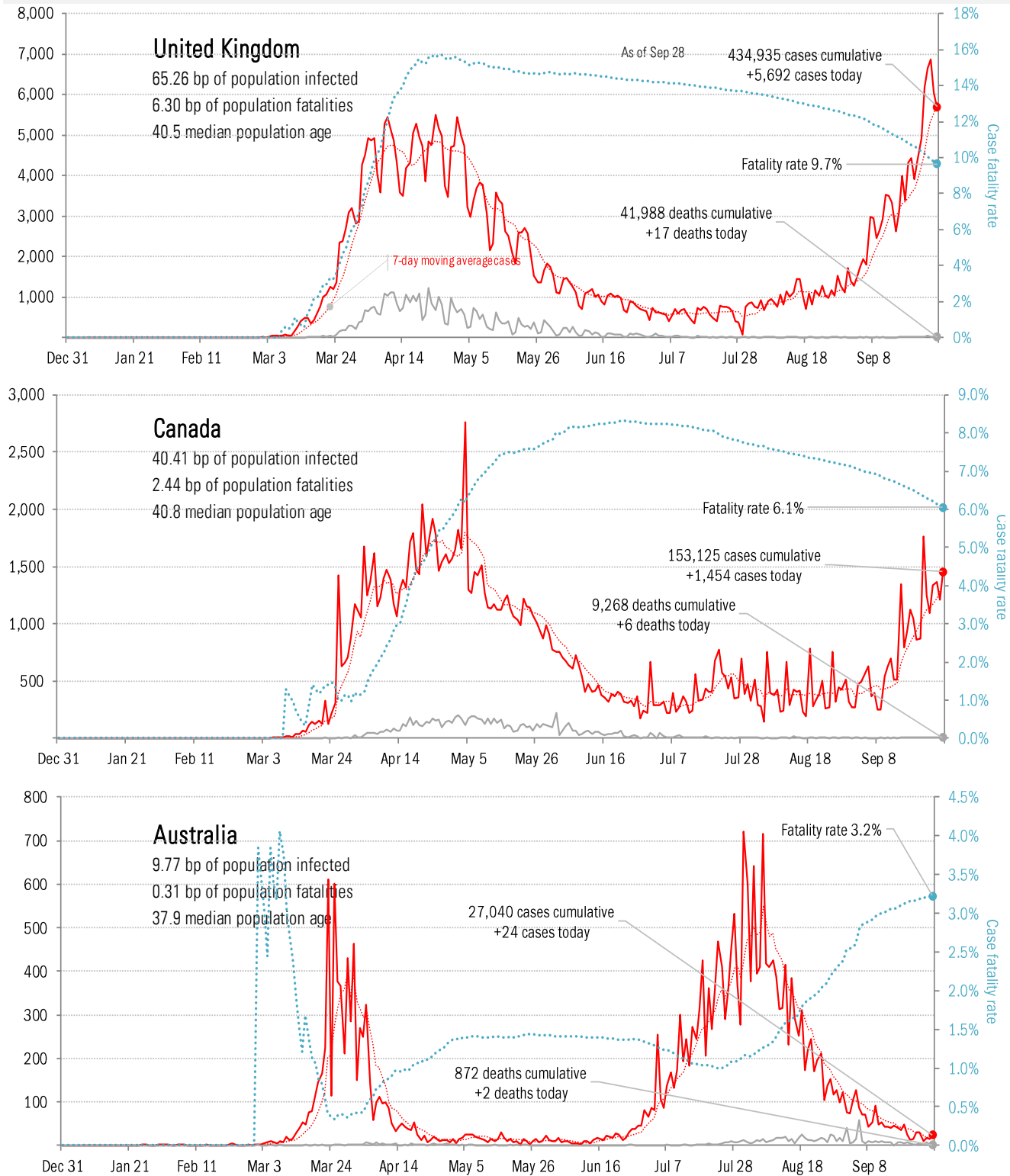
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



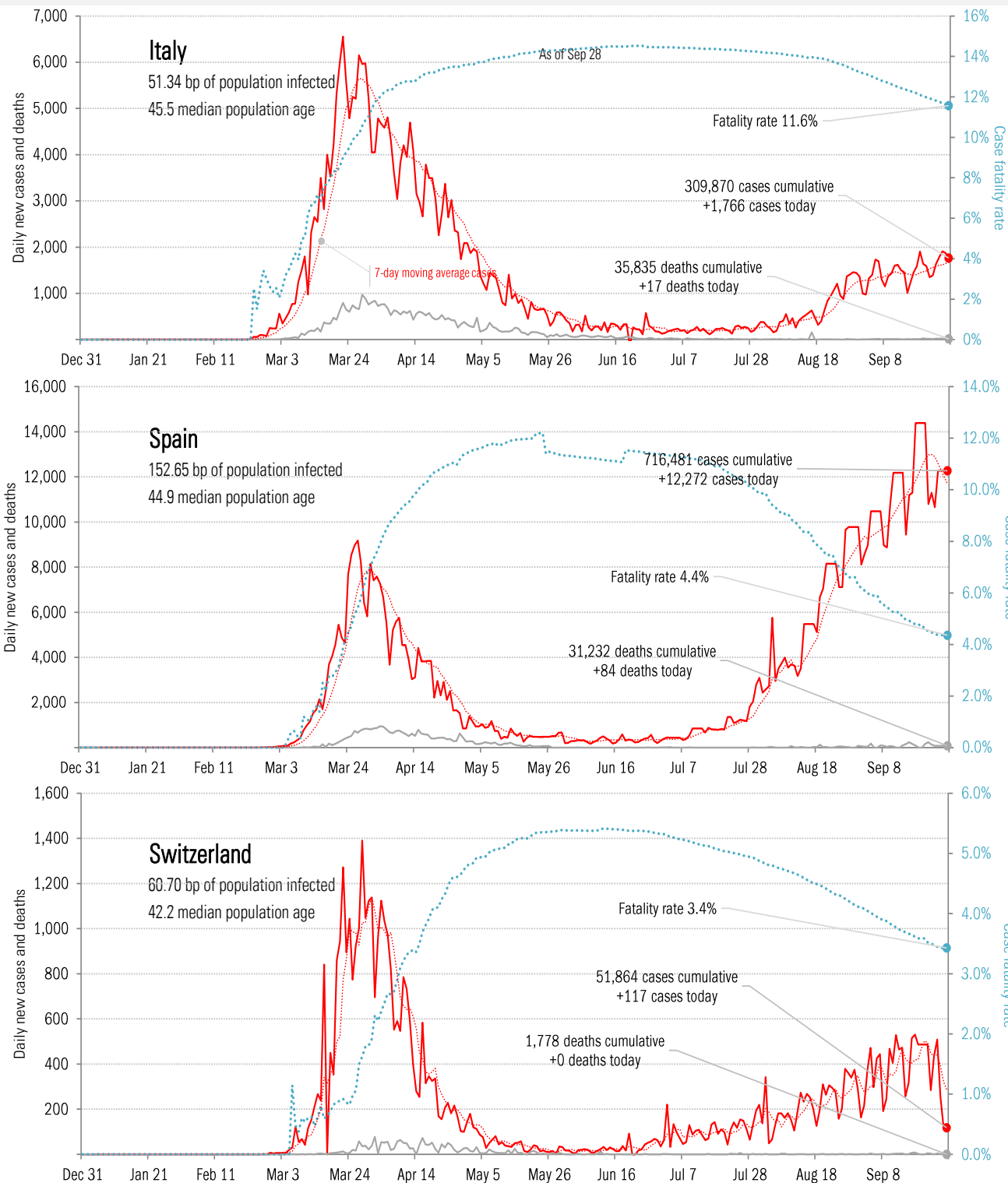
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



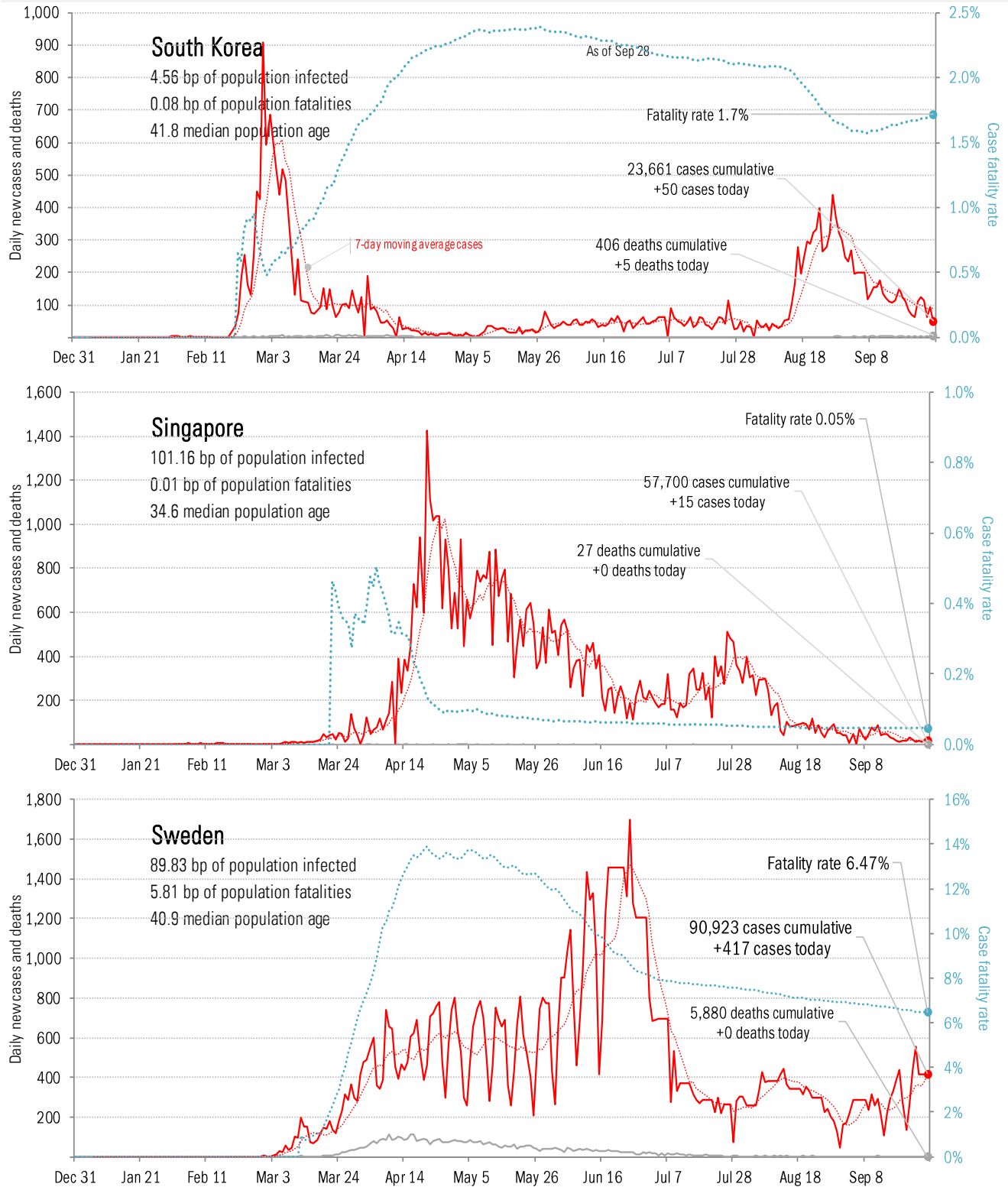
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



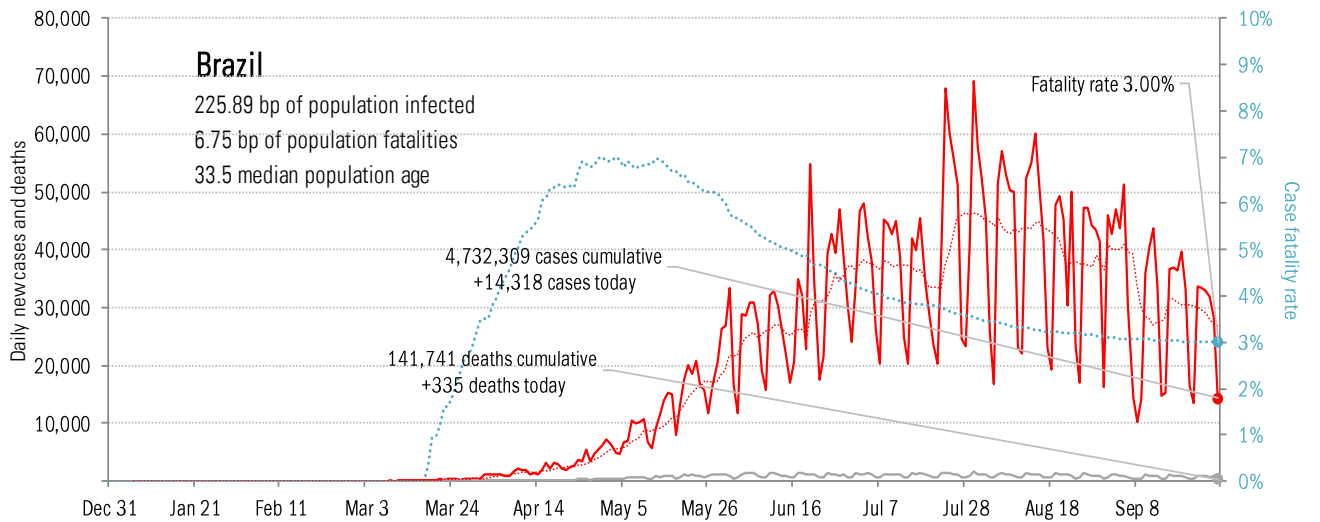
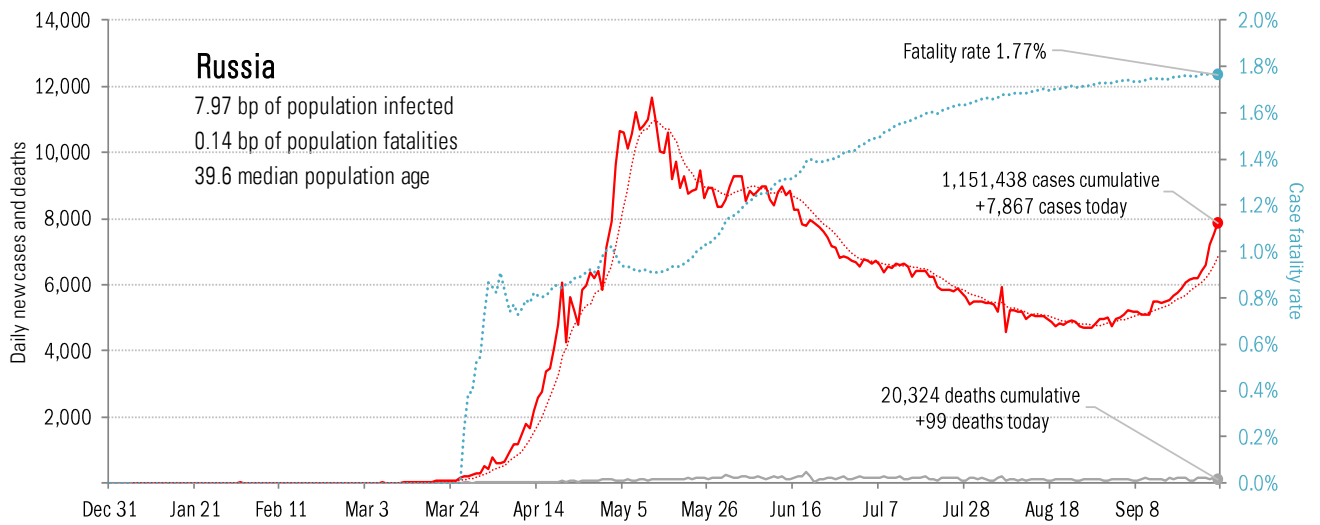
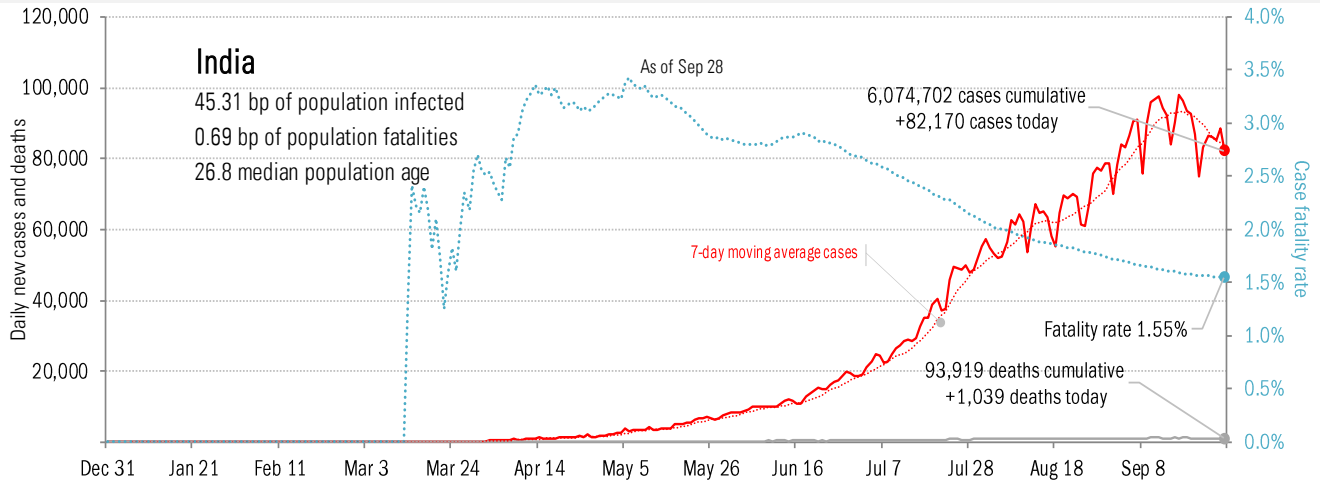
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



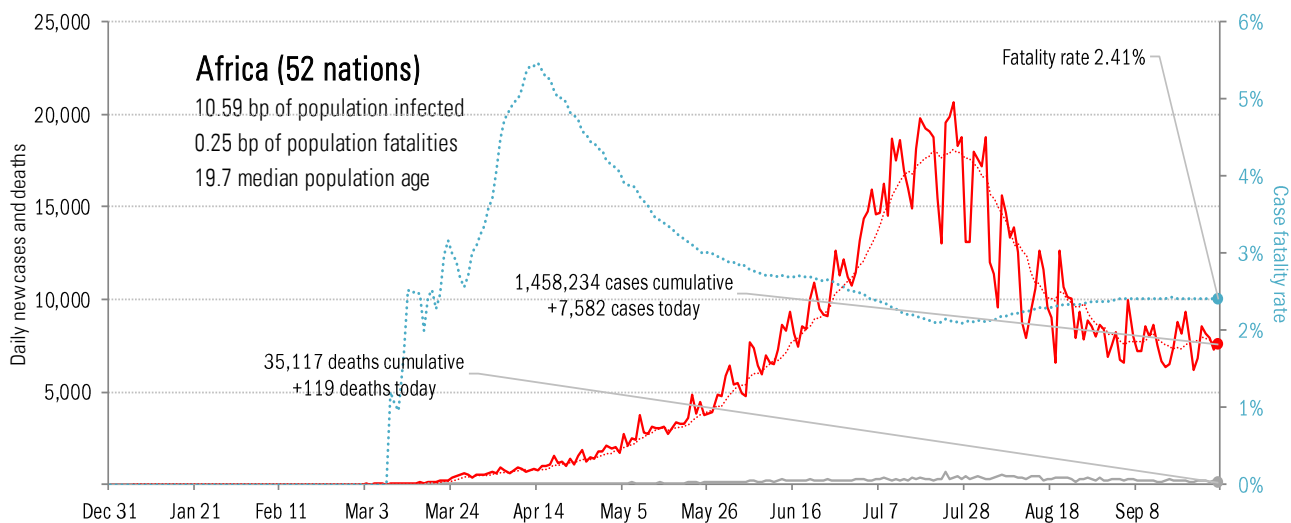
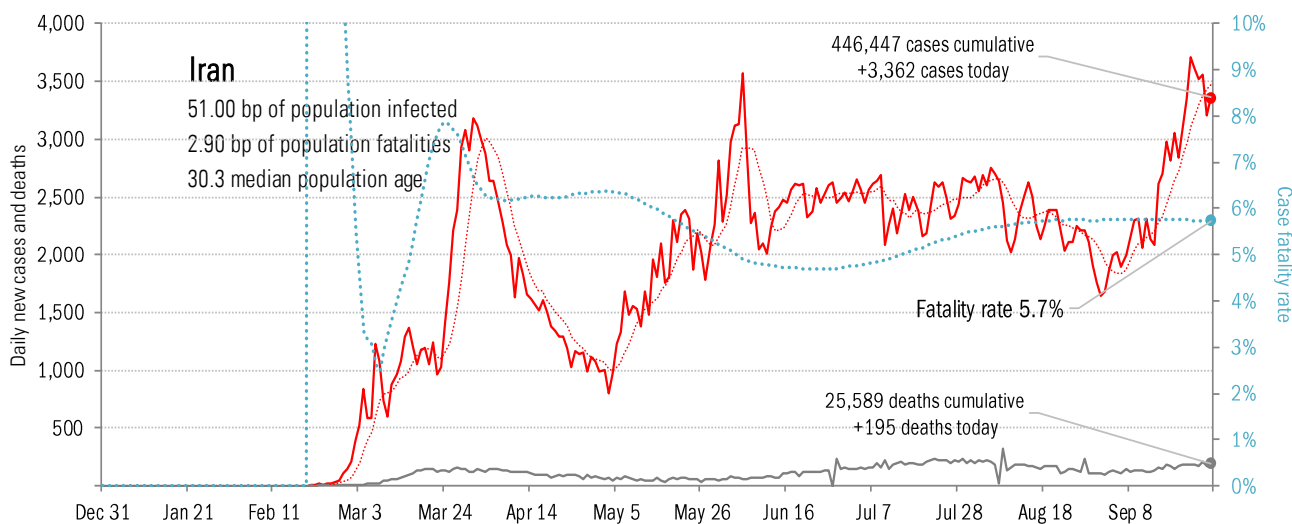
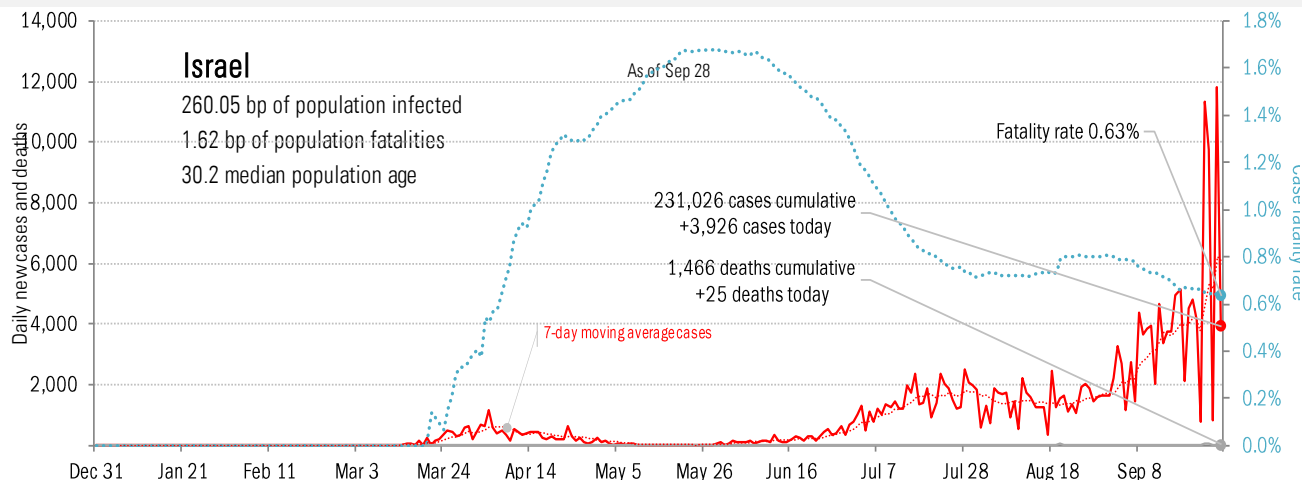
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations