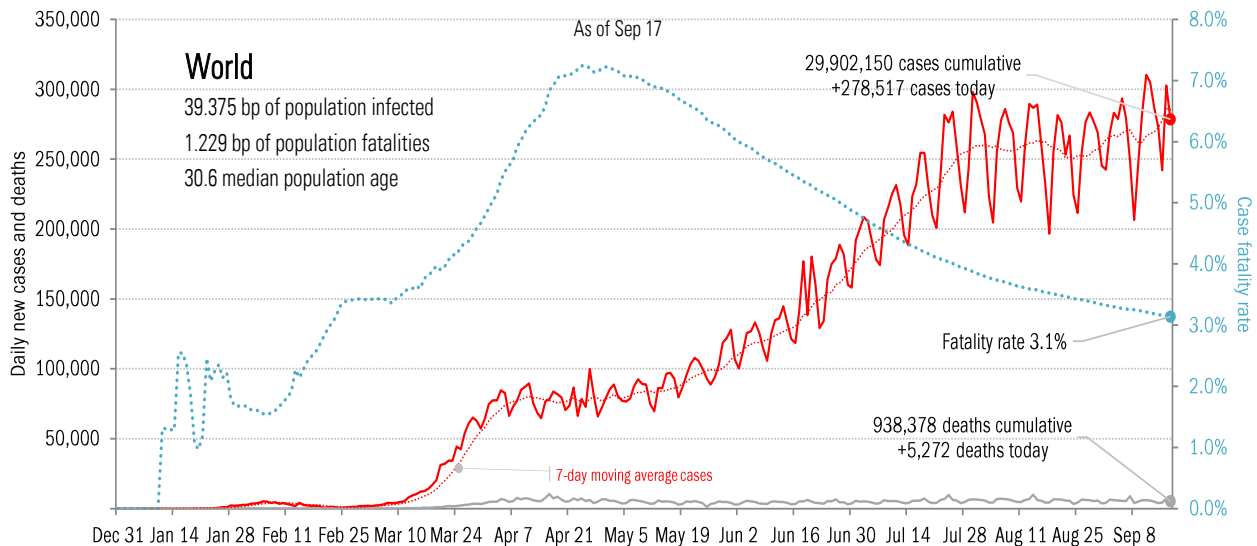
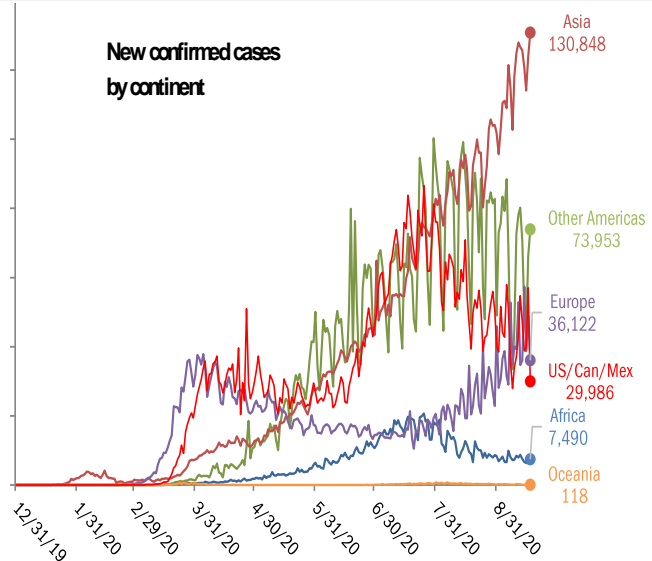


Data Insights: Covid-2019 Monitor

Thursday, September 17, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+97,894	India	+1,132
Brazil	+36,820	Brazil	+987
US	+24,598	US	+865
Argentina	+11,893	Mexico	+300
France	+9,784	Argentina	+200
Colombia	+7,787	Colombia	+190
Peru	+6,380	Iran	+179
Russia	+5,670	Indonesia	+135
Israel	+4,974	Russia	+132
Mexico	+4,444	Peru	+124
+210,244		+4,244	
World	+278,517	World	+5,272
Top ten	75%	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

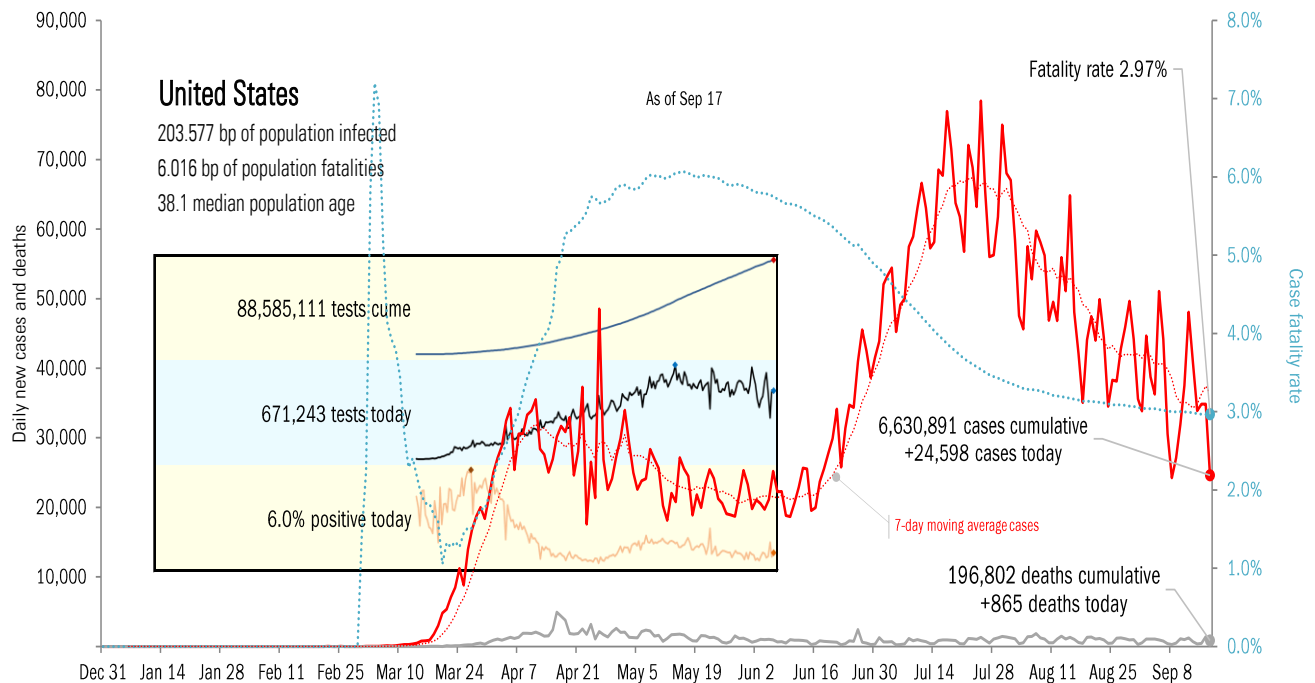
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
TX	+6,026	CA	+164	GA	+219	CA	762,963	NY	25,410	NY	89,995
CA	+2,950	FL	+154	FL	+200	TX	674,772	NJ	16,054	FL	42,327
FL	+2,355	AR	+147	AL	+186	FL	671,201	CA	14,615	GA	26,884
GA	+2,223	TX	+135	VA	+99	NY	446,366	TX	14,478	NJ	23,032
IL	+1,941	KS	+52	CH	+79	GA	299,056	FL	13,100	AZ	21,825
TN	+1,856	CH	+49	TN	+74	IL	268,246	MA	9,245	VA	17,563
WI	+1,502	VA	+45	IN	+60	AZ	209,907	IL	8,599	AL	15,942
MO	+1,191	NC	+38	SC	+50	NJ	197,792	PA	7,903	MD	14,959
NC	+1,137	IL	+35	OK	+48	NC	188,024	MI	6,943	CH	14,560
CH	+1,033	SC	+34	WI	+48	TN	177,087	GA	6,419	MA	12,478
+22,214		+853		+1,063		3,895,414		122,766		279,565	
All states	+40,021	All states	+1,202	All states	+1,517	All states	6,597,783	All states	188,802	All states	390,624
Top ten	56%	Top ten	71%	Top ten	70%	Top ten	59%	Top ten	65%	Top ten	72%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
FL	-761	VA	-51	FL	-81	AL	+7,009
PA	-375	CH	-38	GA	-52	LA	+5,130
FR	-310	AL	-27	OK	-48	TX	+4,925
SC	-138	GA	-24	AR	-28	MA	+1,896
MO	-126	NV	-14	CH	-24	TN	+1,542



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

Recommended reading

[As Coronavirus Rebounds, Europe Rejects New Lockdowns](#)

Bojan Pancevski and Margherita Stancati
Wall Street Journal
September 16, 2020

[Is the company with a 20-second coronavirus test for real?](#)

Anna Gross and Jemima Kelly
Financial Times
September 16, 2020

[The video that YouTube banned: Scott Atlas And The Efficacy Of Lockdowns, Social Distancing, And Closings](#)

Uncommon Knowledge
June 23, 2020

[Hyper-Partisan Attacks Could Undermine a Covid-19 Vaccine's Adoption](#)

Merrill Matthews
Institute for Policy Innovation
September 16, 2020

[At JPMorgan, Productivity Falls for Staff Working at Home](#)

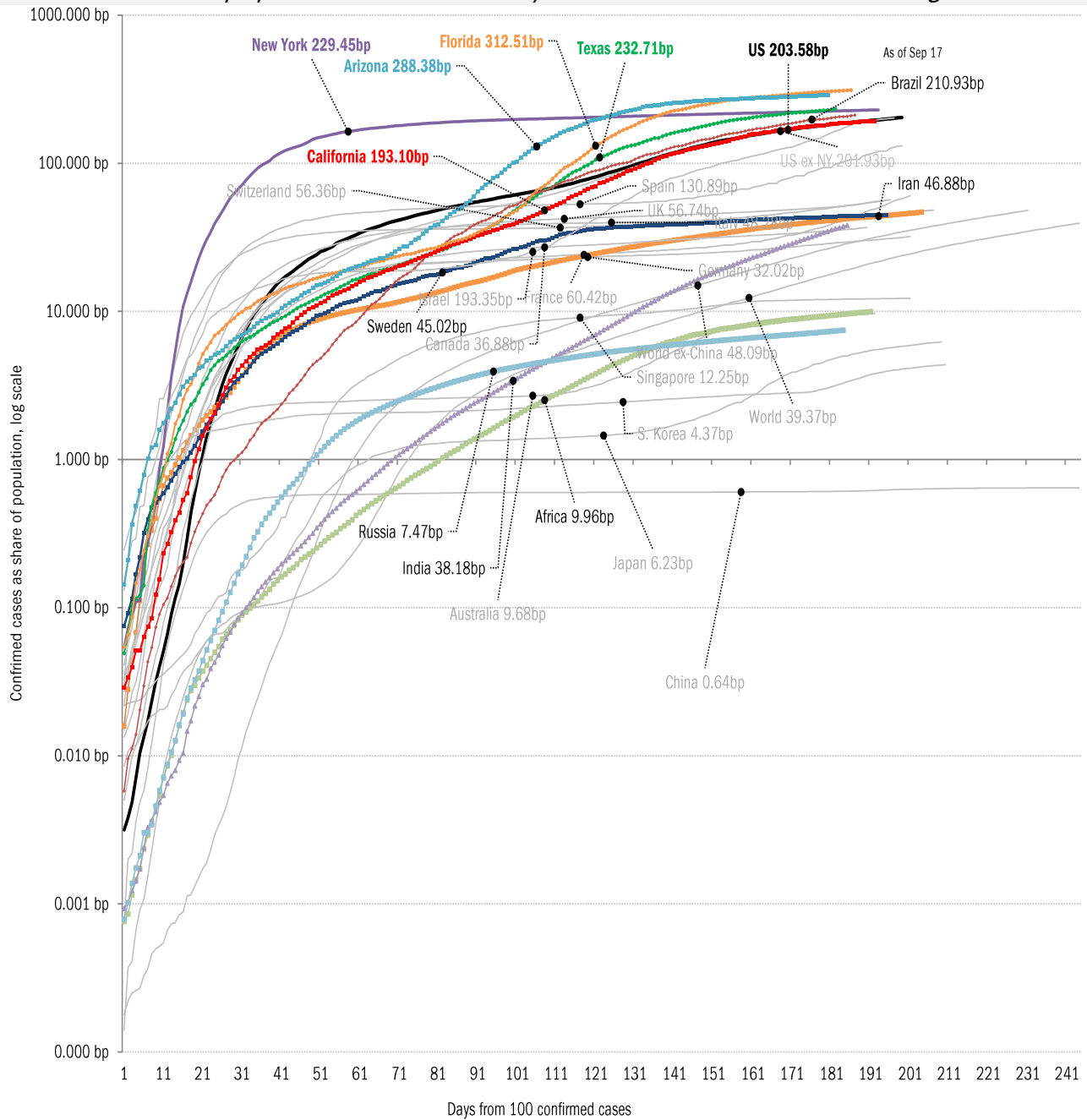
Michelle F Davis
Bloomberg
September 14, 2020

Meme of day



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

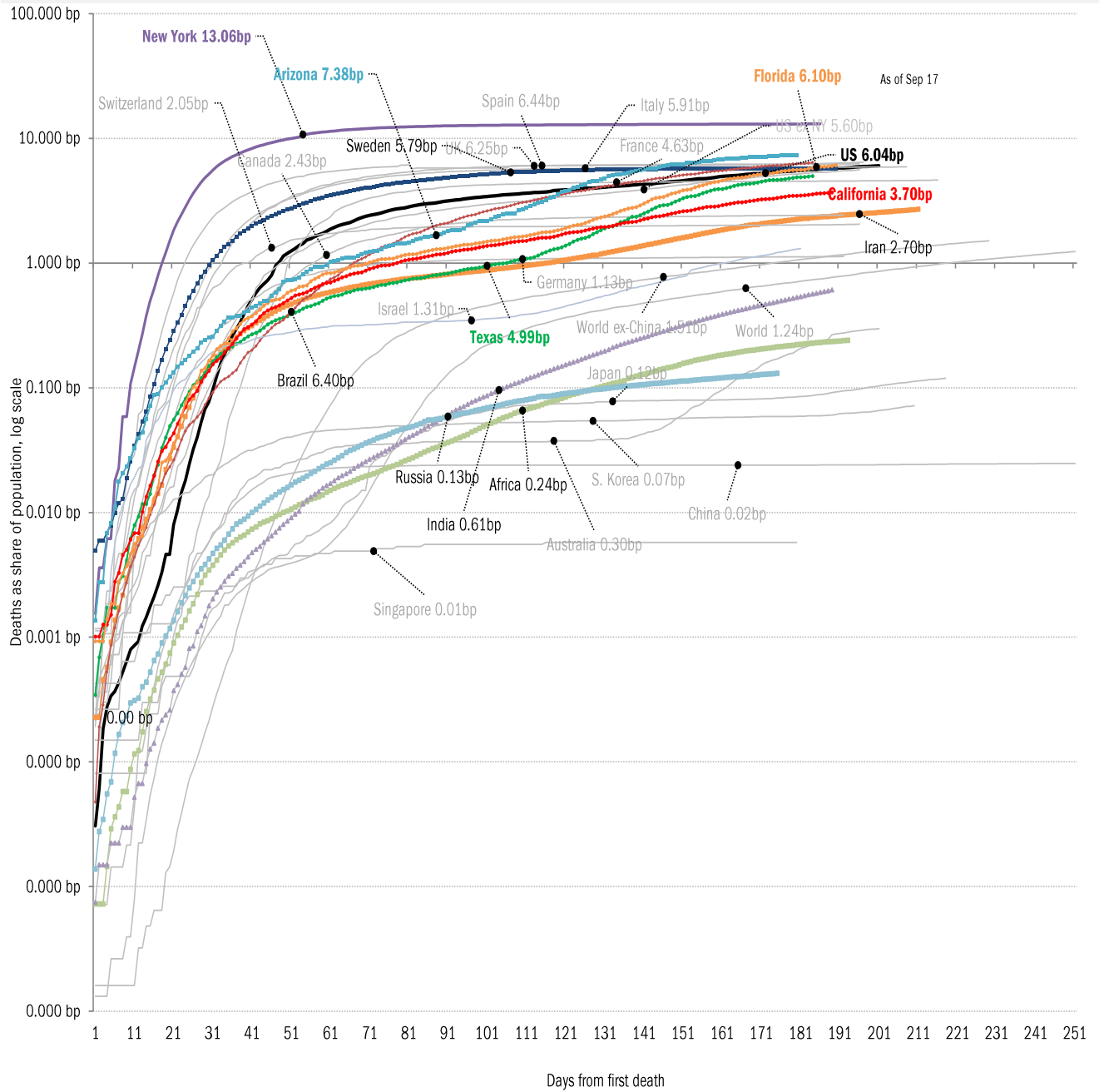
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

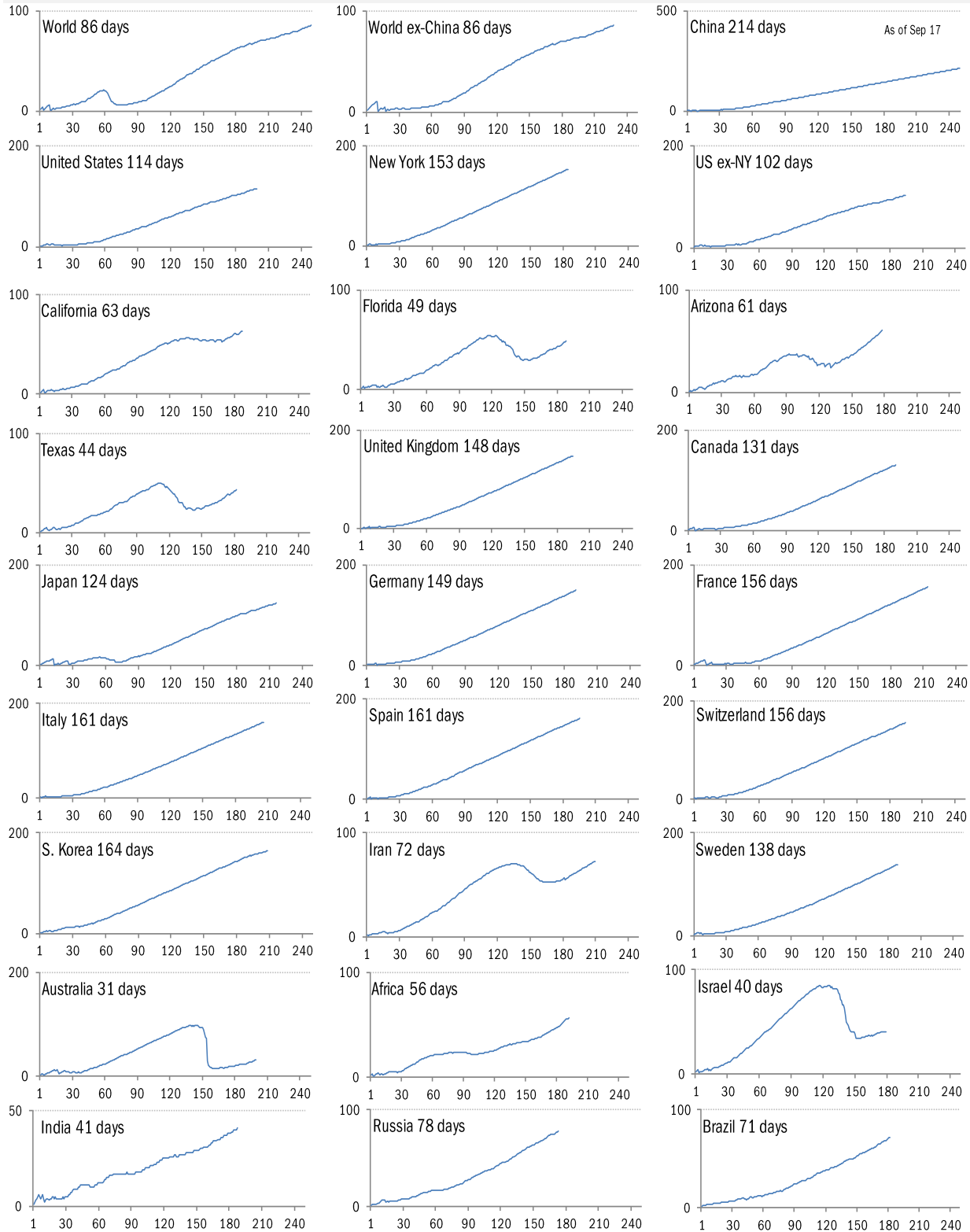


Source: [ECDC](#), TrendMacro calculations

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

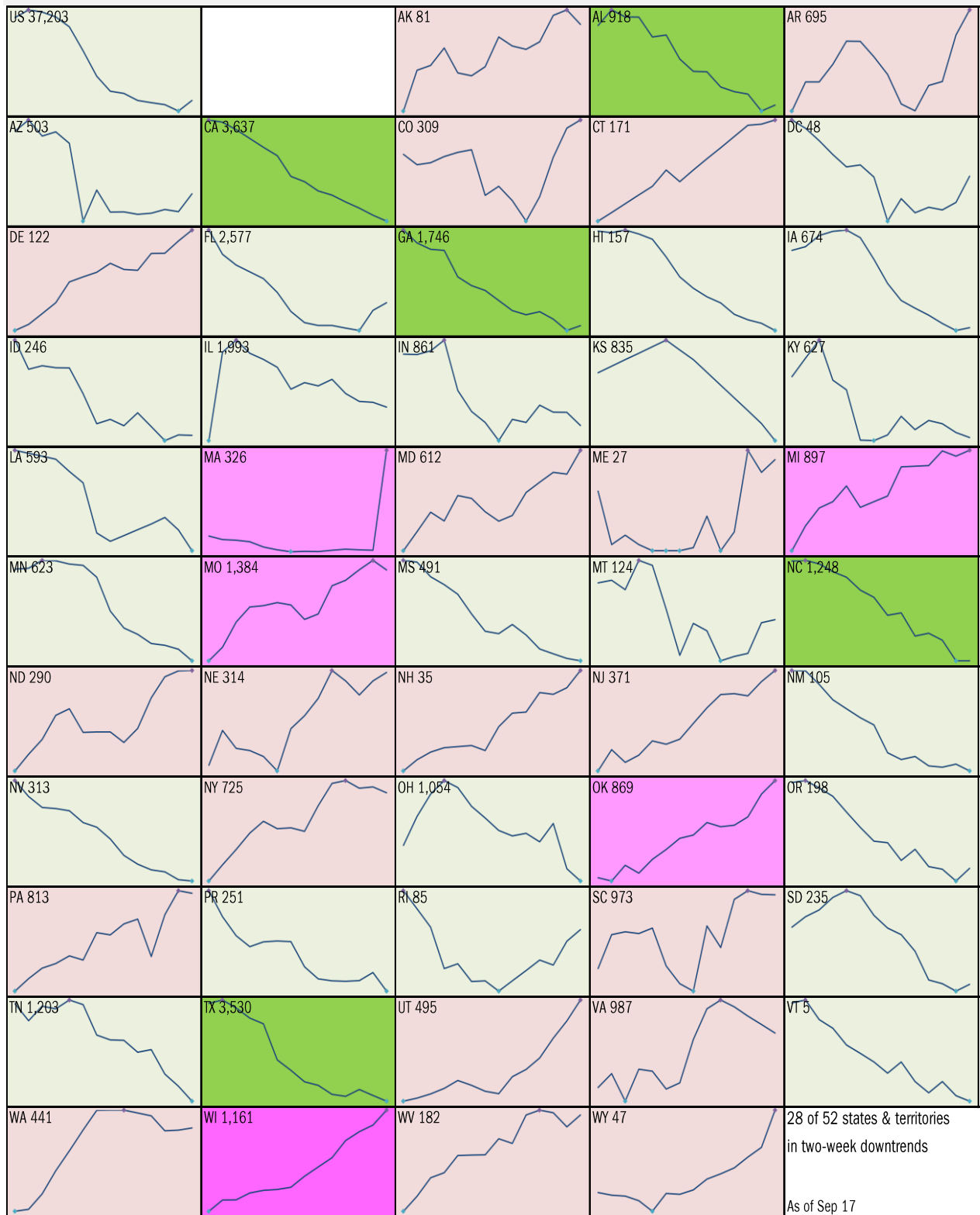
Vertical: days to double deaths Horizontal: days from first death

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



Source: [ECDC](#), TrendMacro calculations

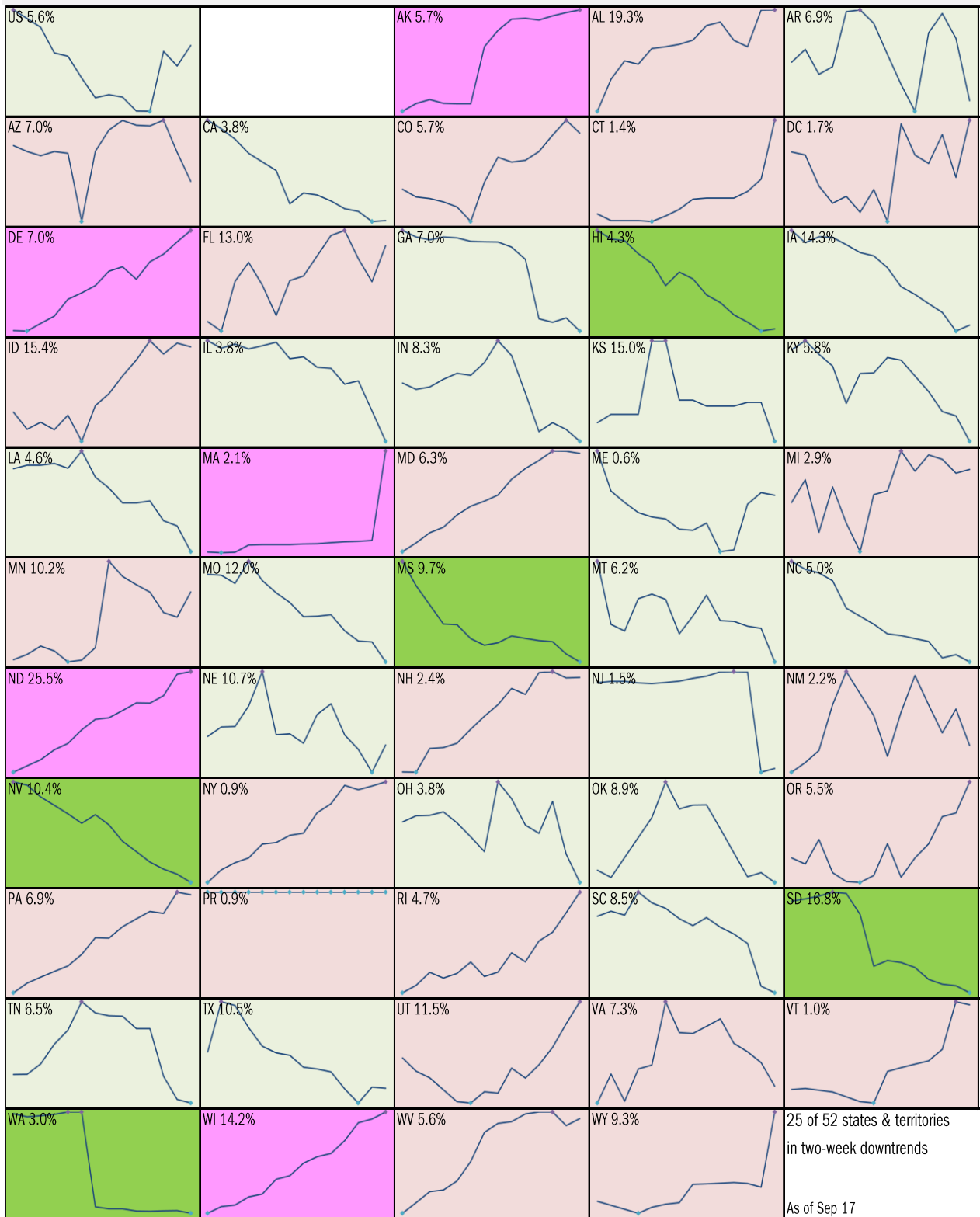
Requirement to [Open Up America Again](#): 14-day "downward trajectory" in new cases
 14-day moving average, last 14 days *Most recent value displayed* ● High ● Low
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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



As of Sep 17

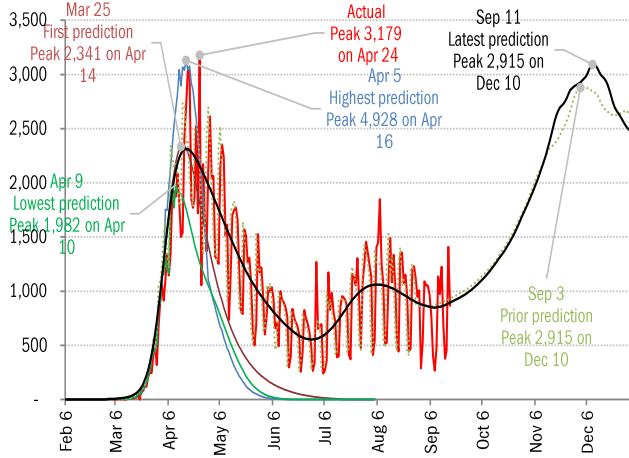
Source: [Covid Tracking Project](#), TrendMacro calculations

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

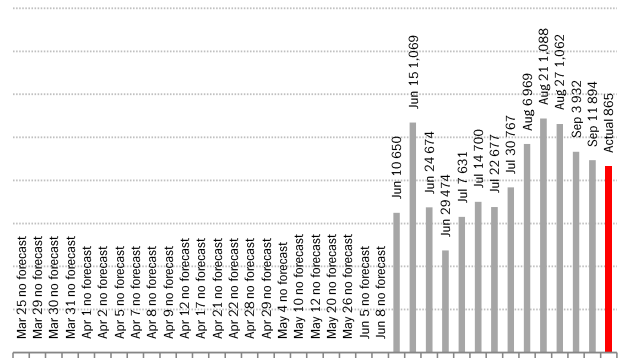
New daily fatalities

As of Sep 17

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

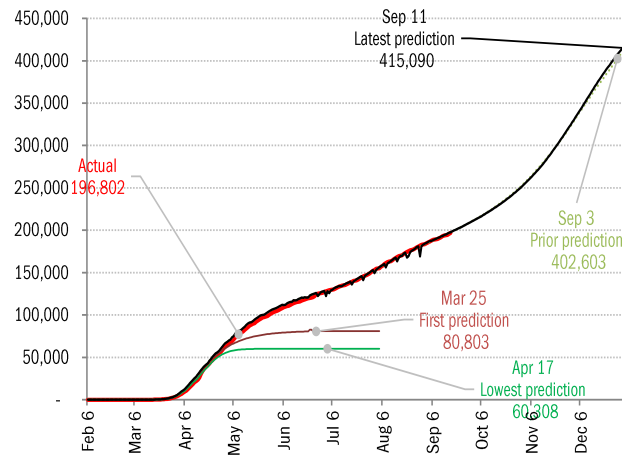


For this day, versus all model mean predictions

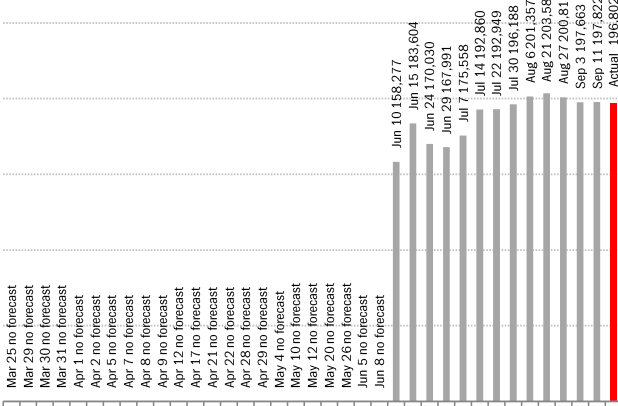


Cumulative fatalities

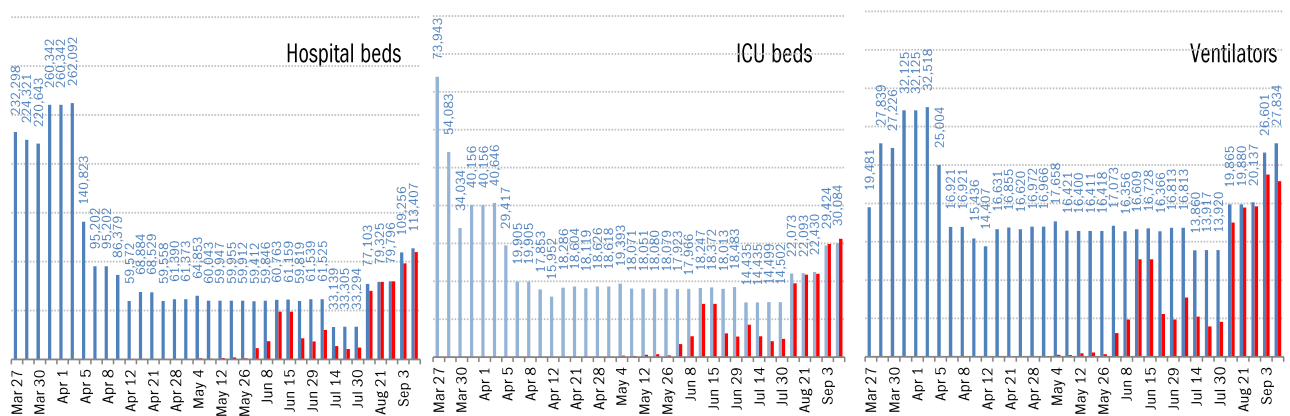
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

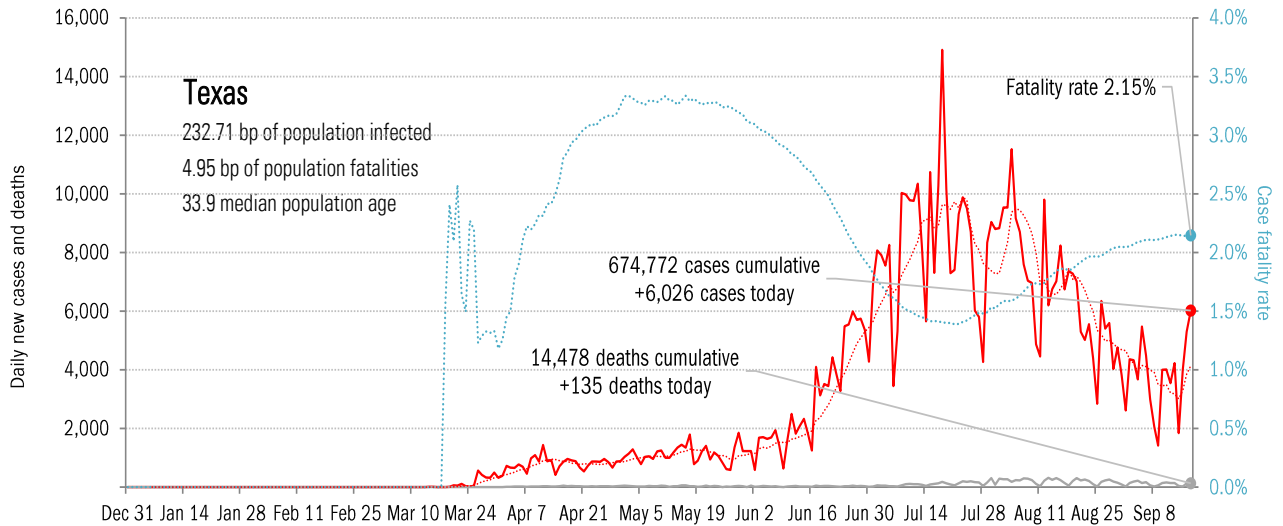
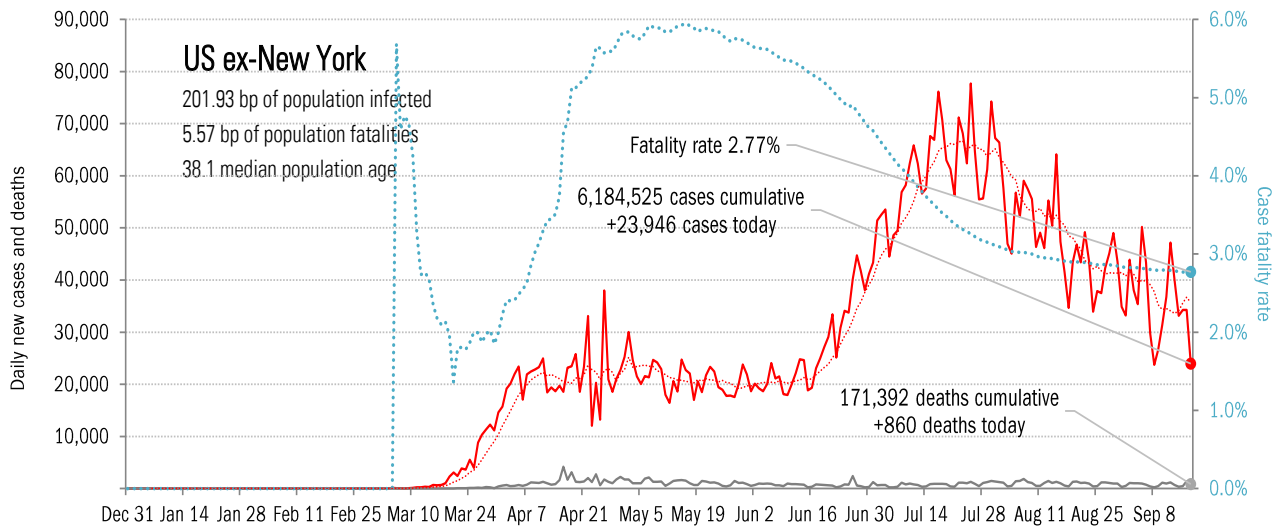
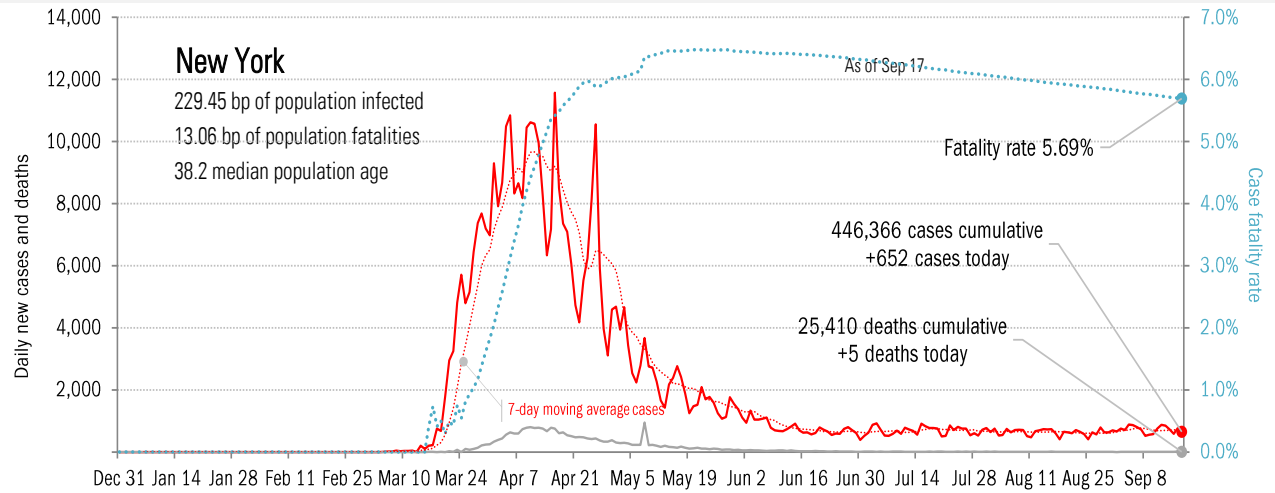


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



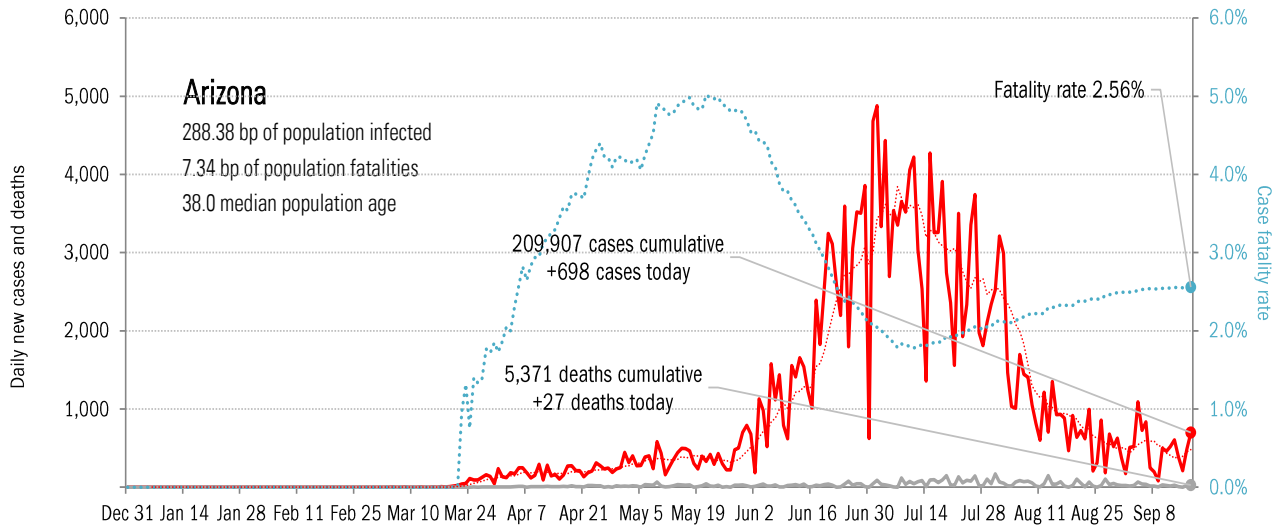
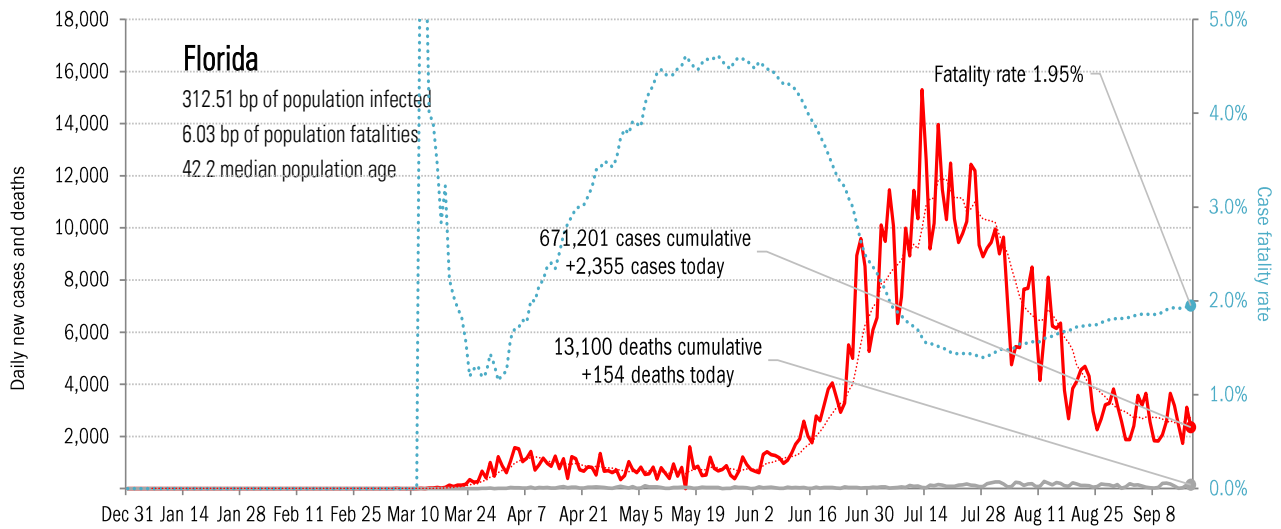
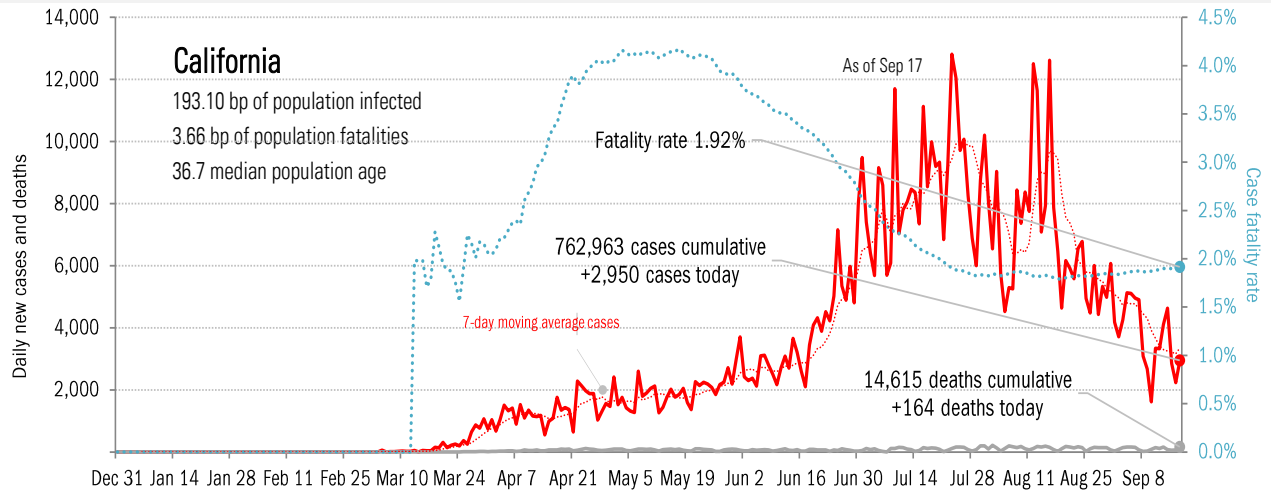
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



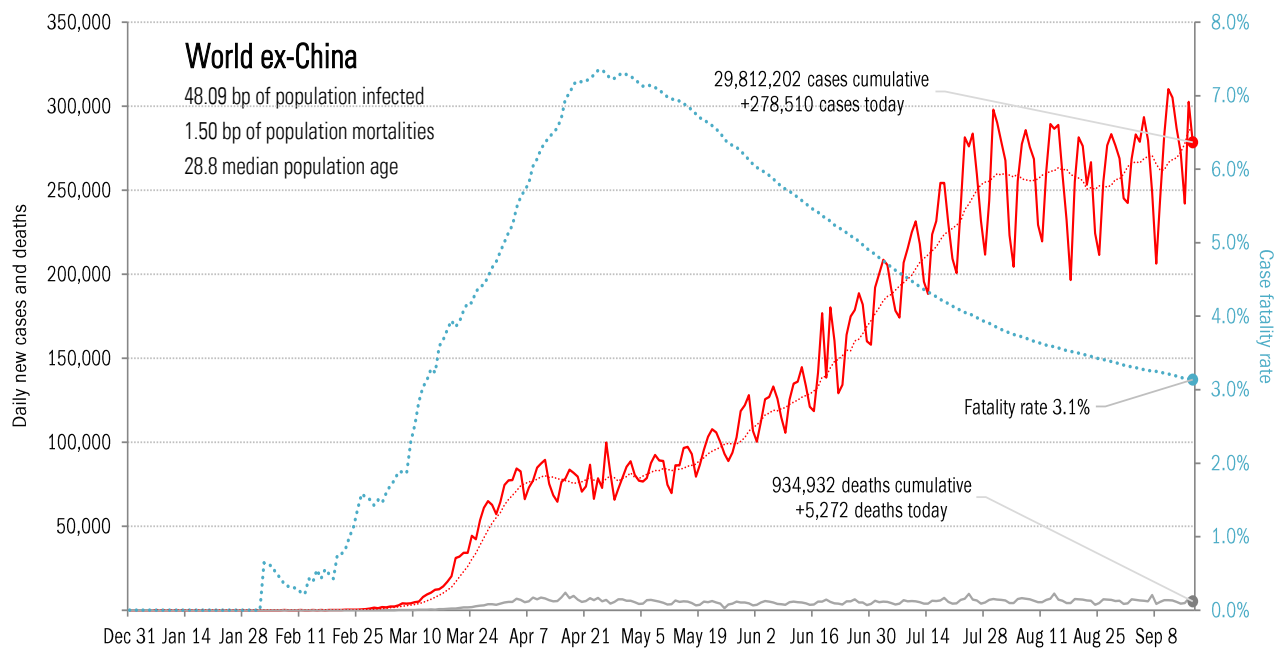
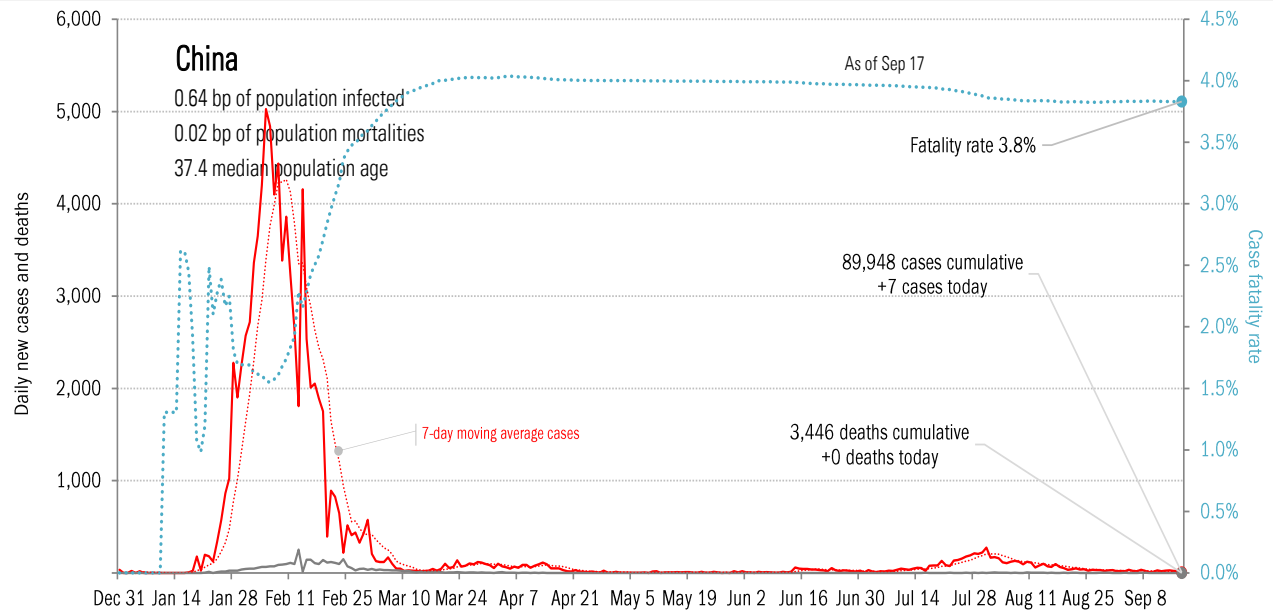
Source: [ECDC](#), TrendMacro calculations

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



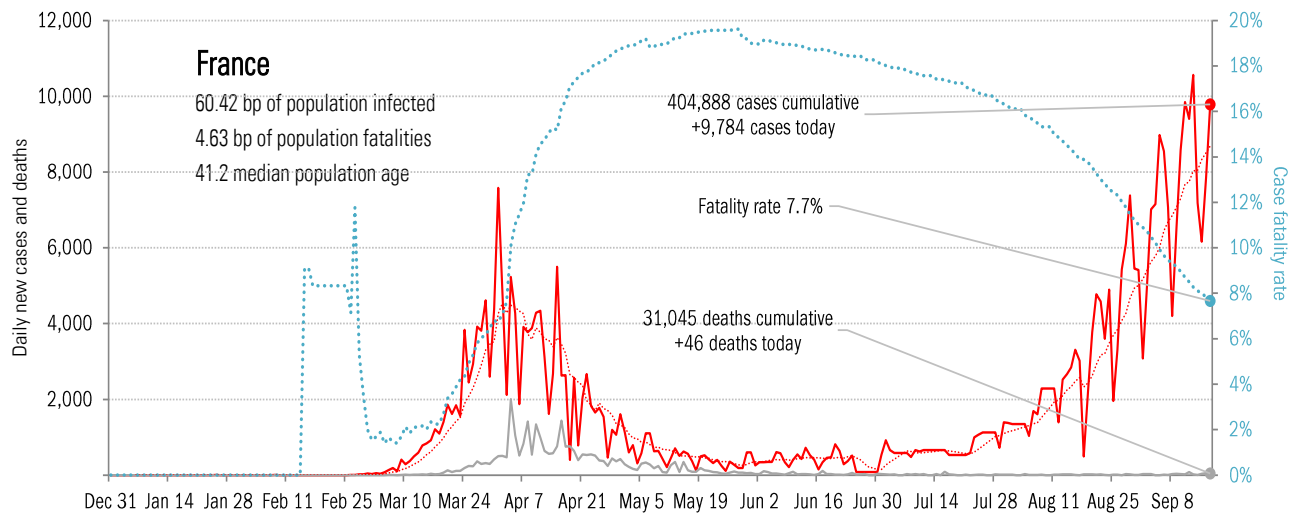
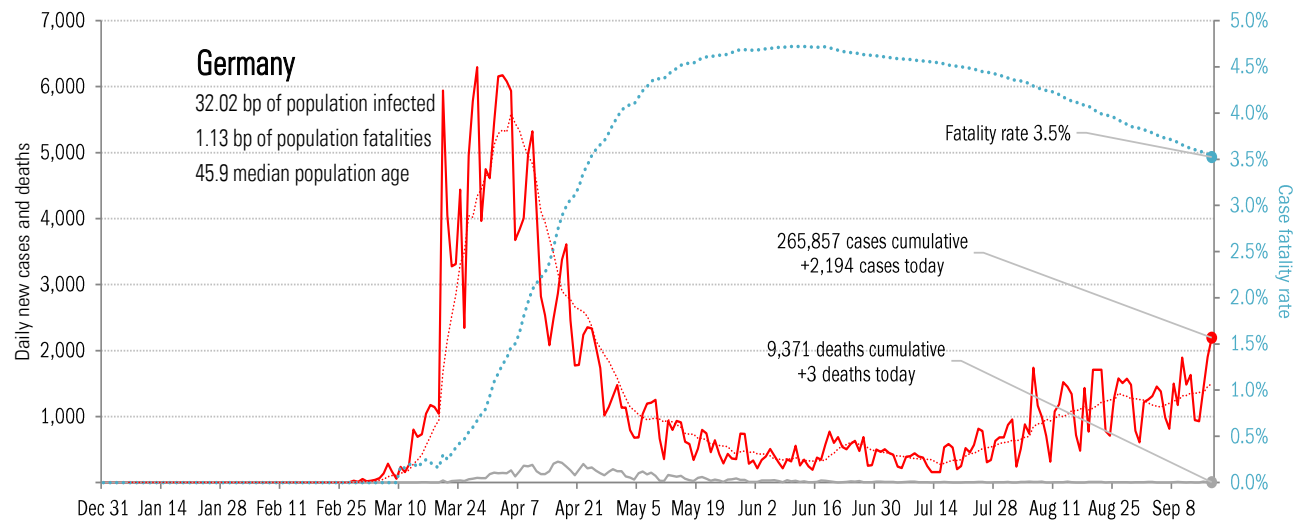
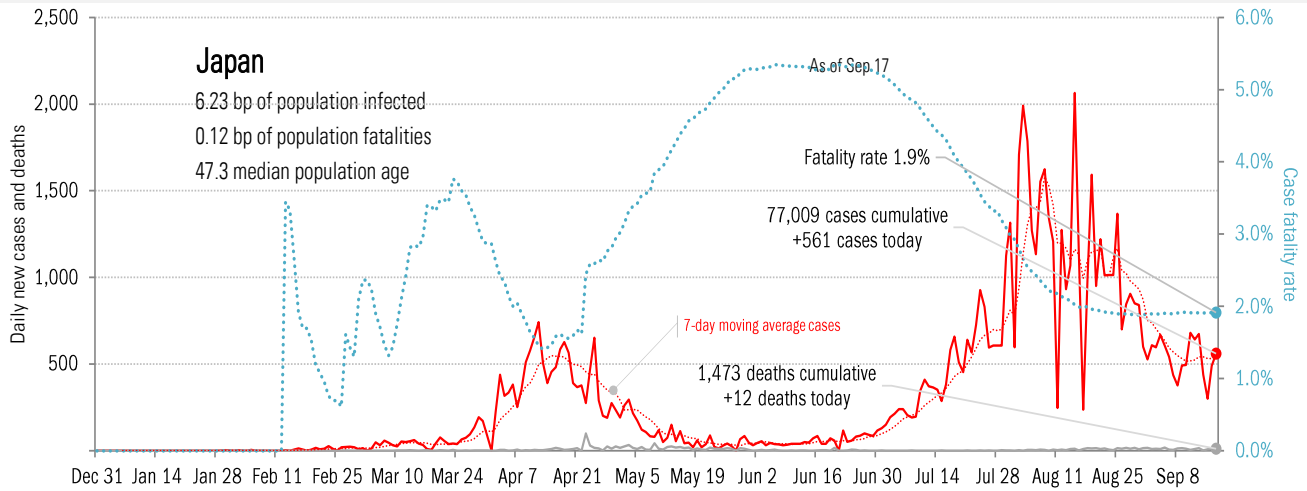
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



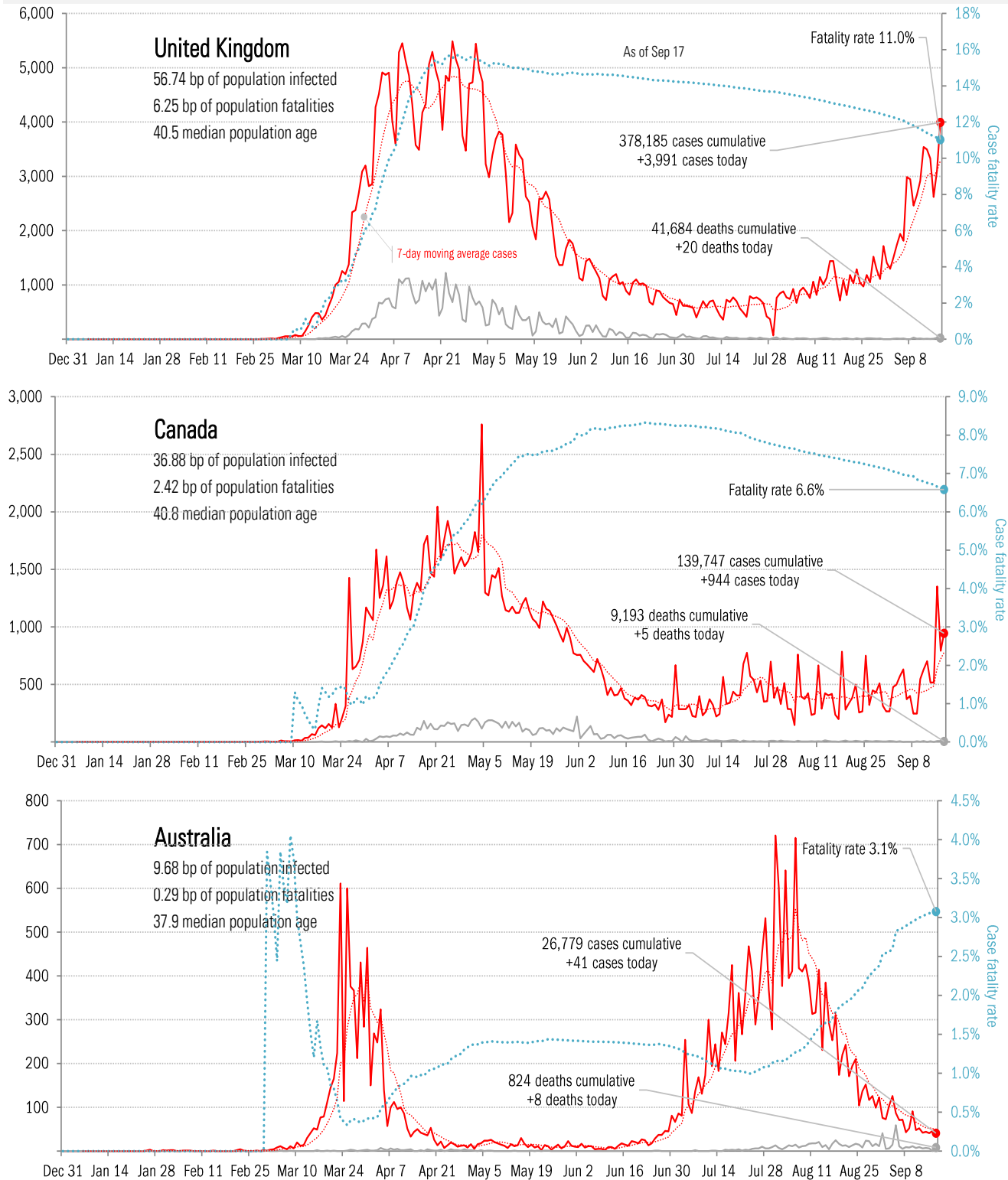
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



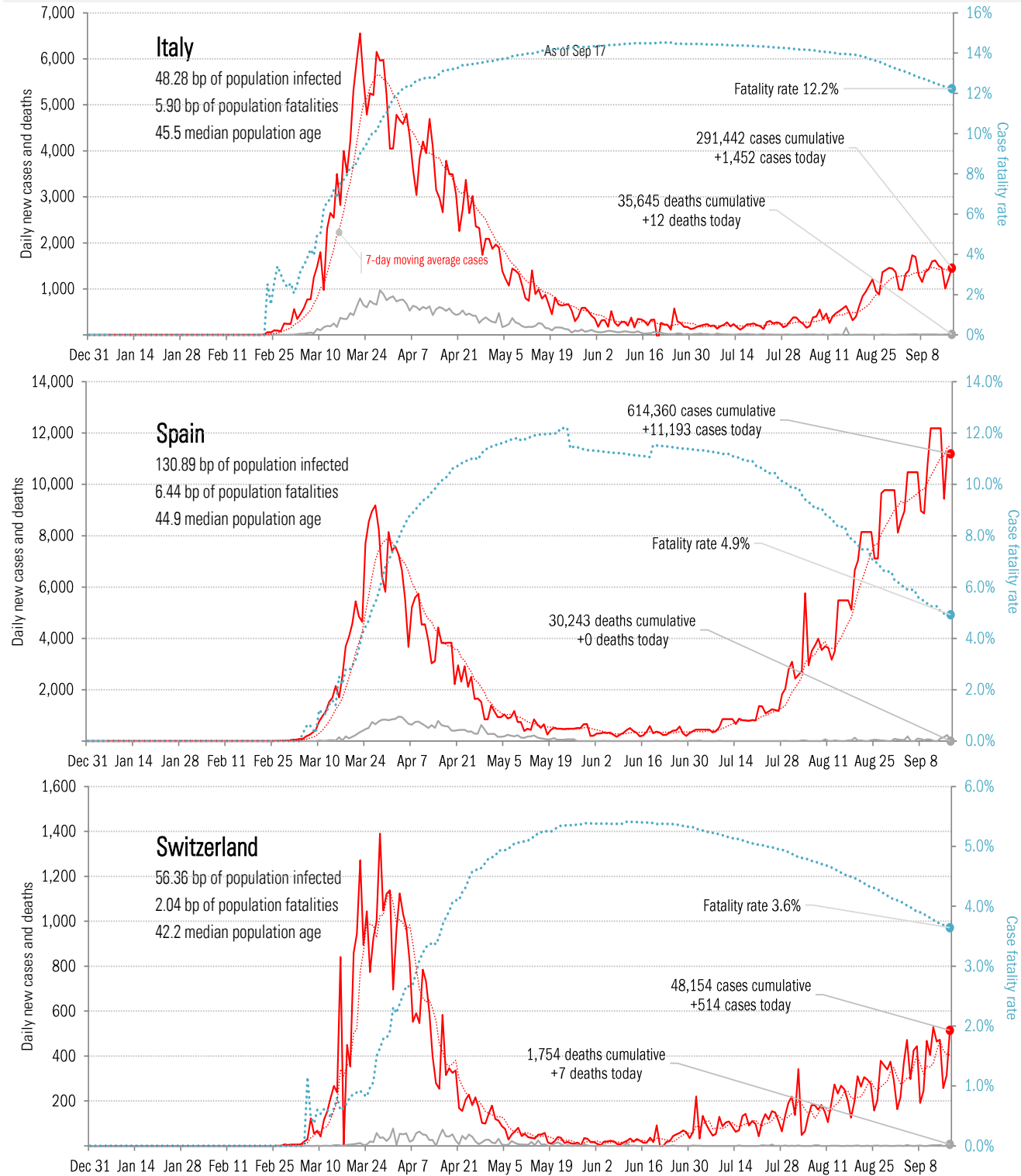
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



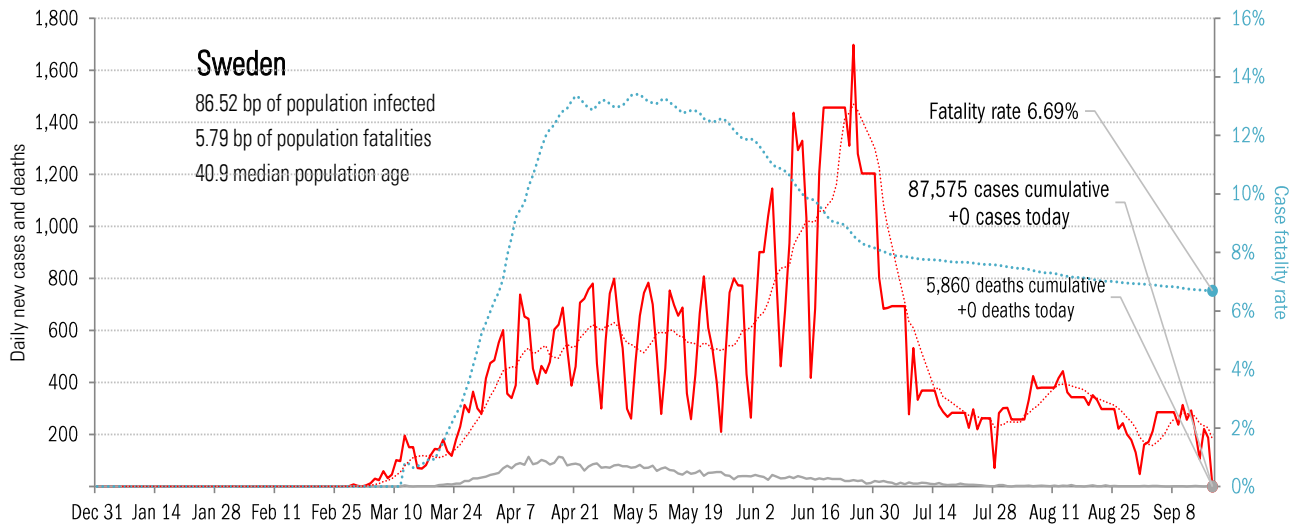
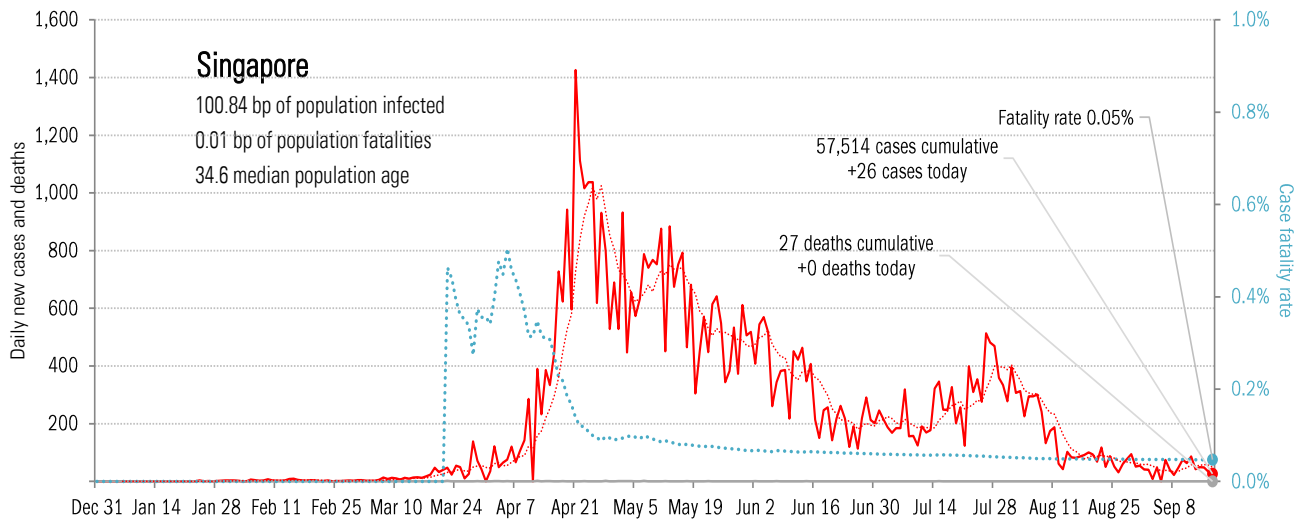
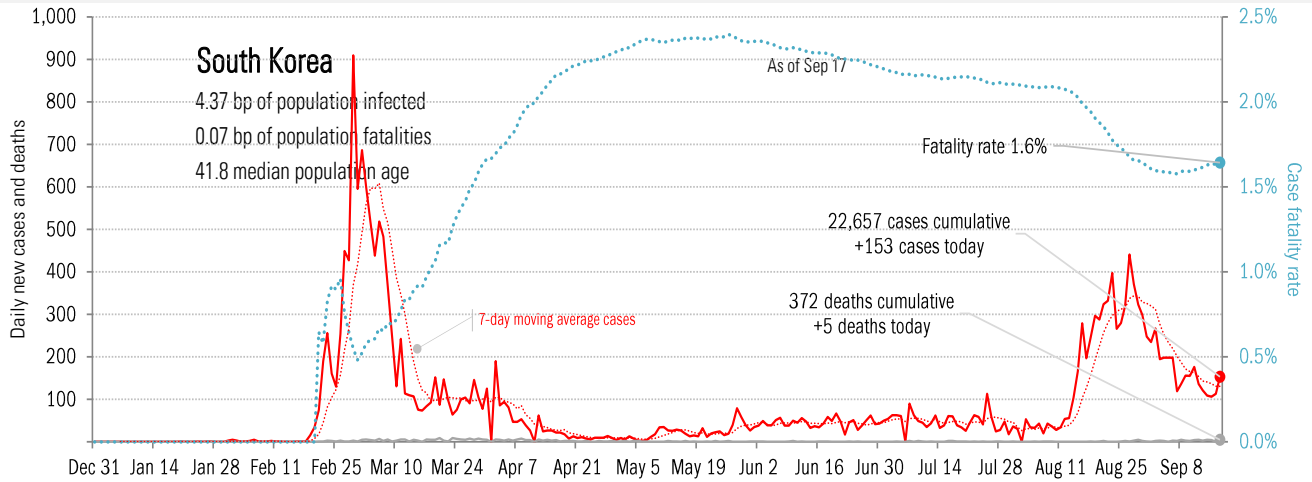
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



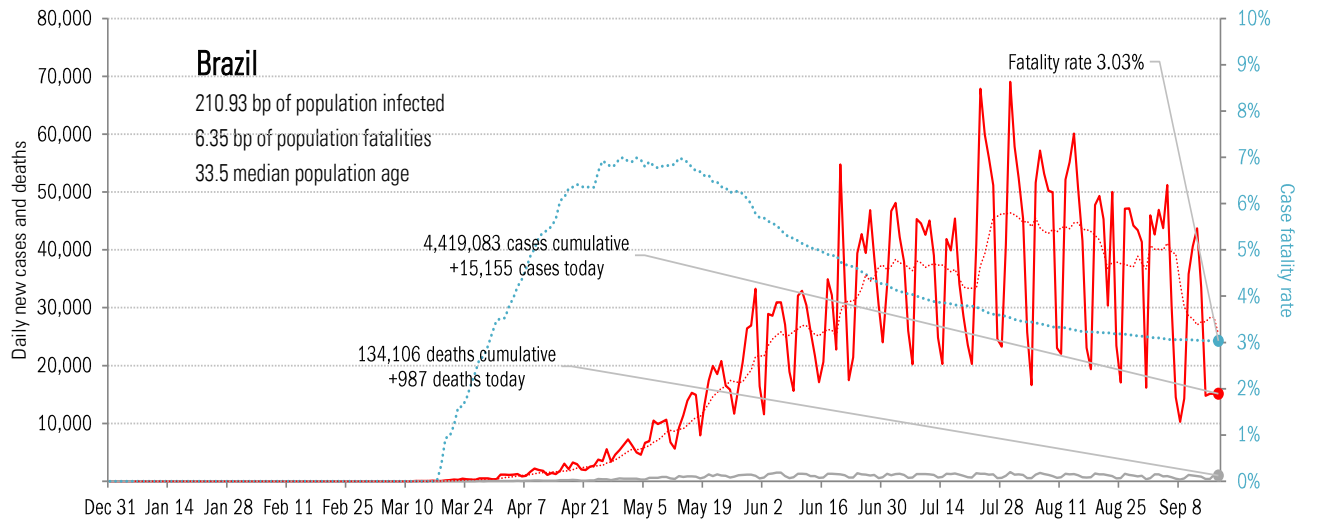
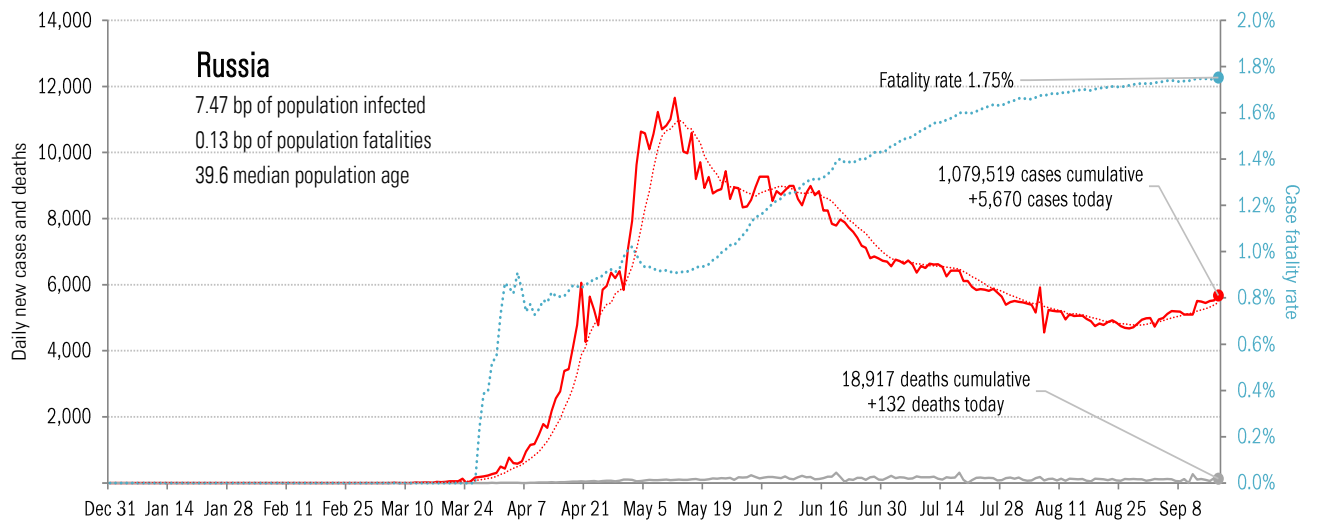
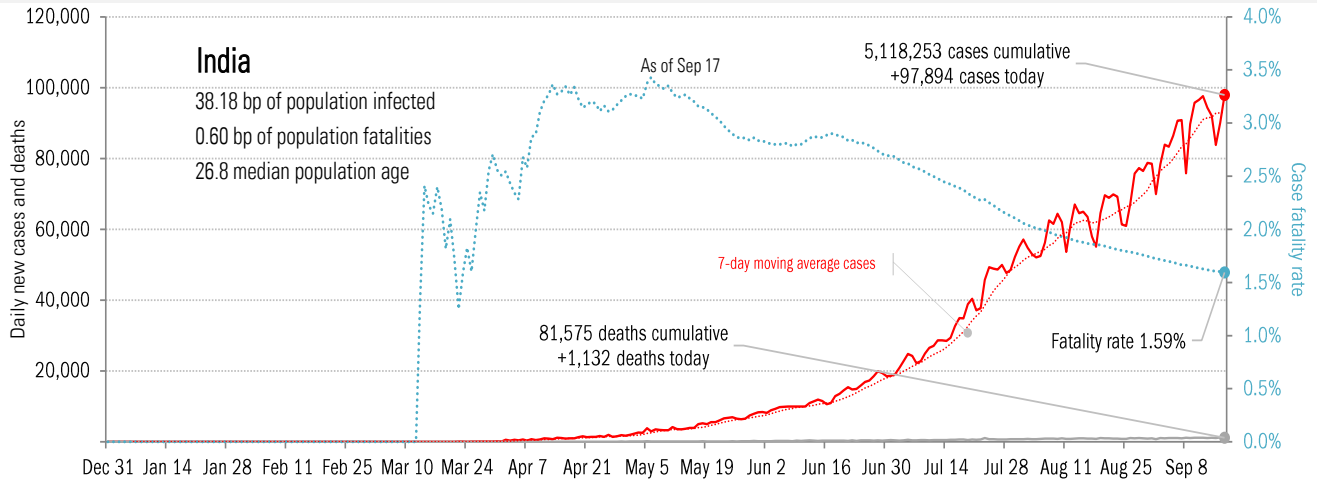
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



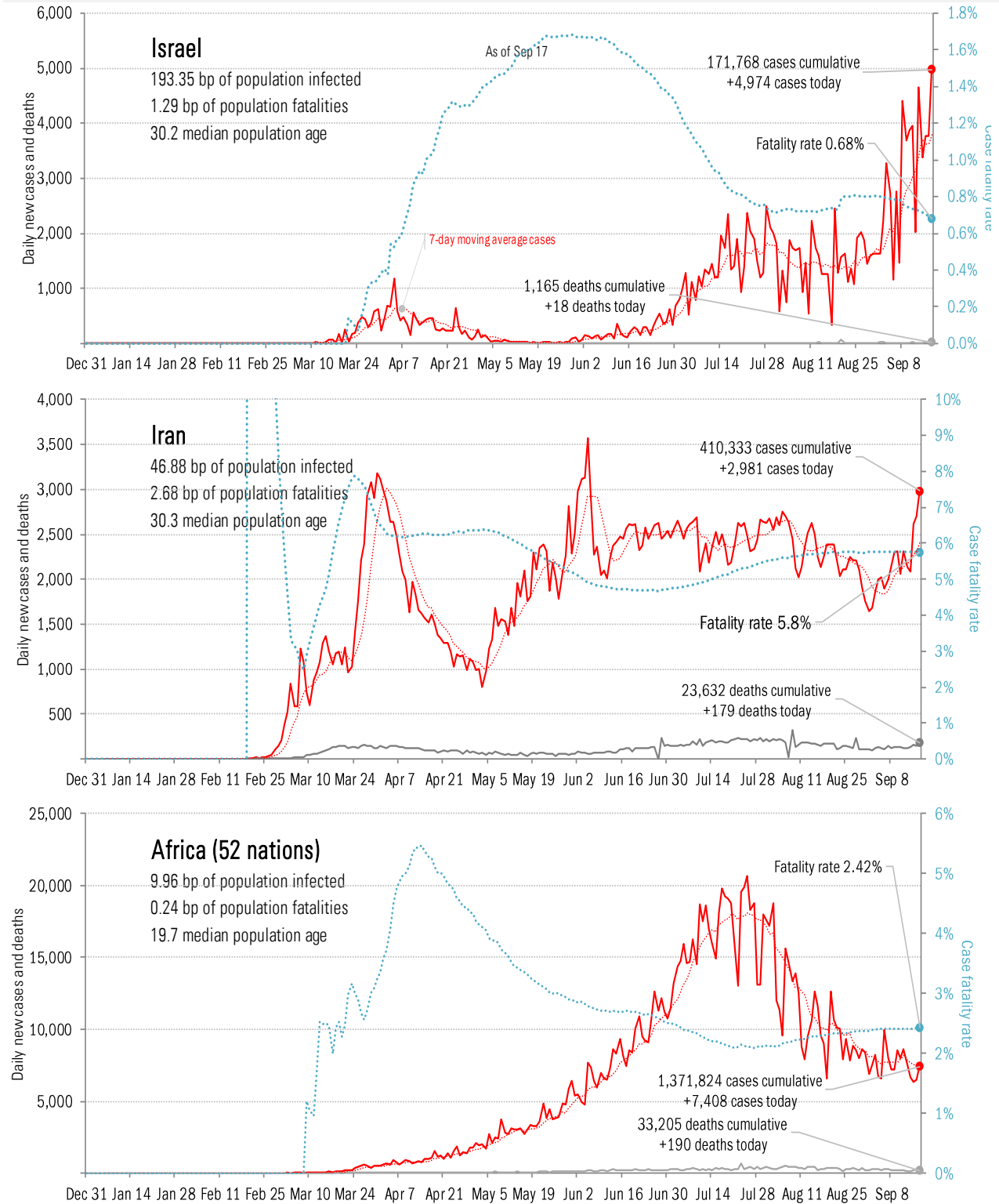
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations