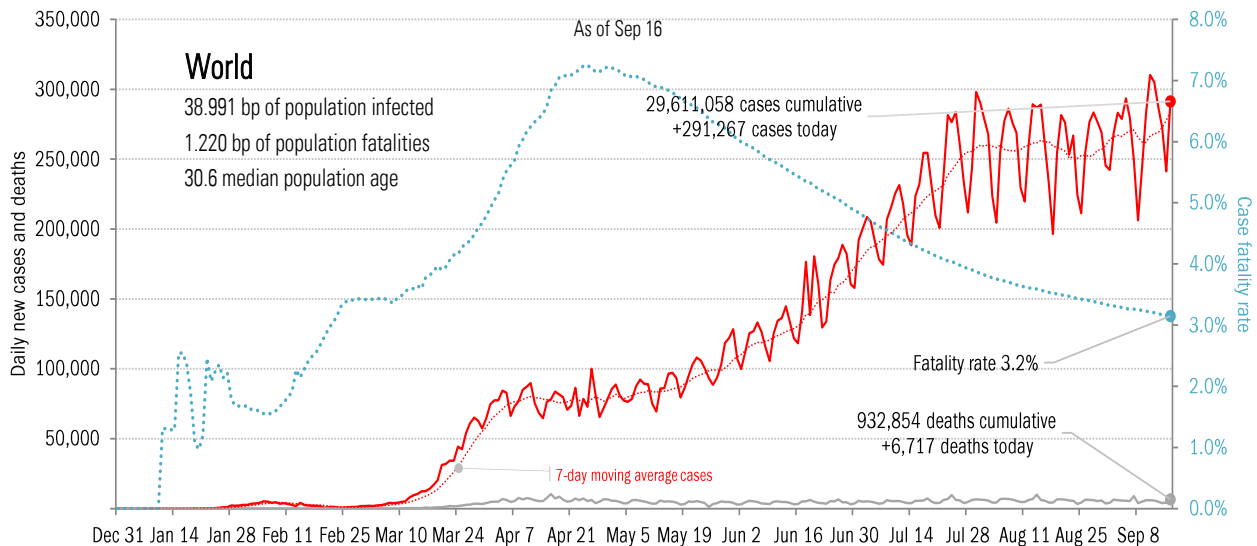
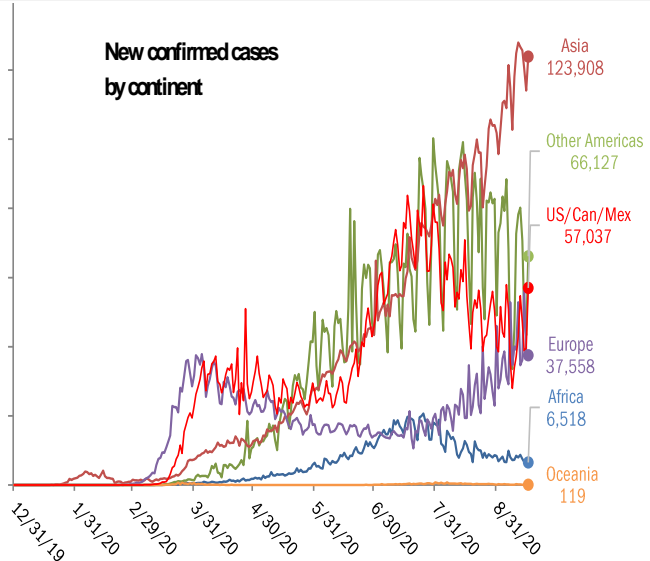


Data Insights: Covid-2019 Monitor

Wednesday, September 16, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+90,123	US	+1,407
US	+51,473	India	+1,290
Brazil	+36,653	Brazil	+1,113
Argentina	+9,908	Mexico	+629
France	+7,852	Argentina	+298
Colombia	+6,698	Colombia	+165
Israel	+6,426	Russia	+150
Ukraine	+5,863	South_Africa	+142
Russia	+5,529	Iran	+140
Mexico	+4,771	Ukraine	+129
+225,296		+5,463	
World	+291,267	World	+6,717
Top ten	77%	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

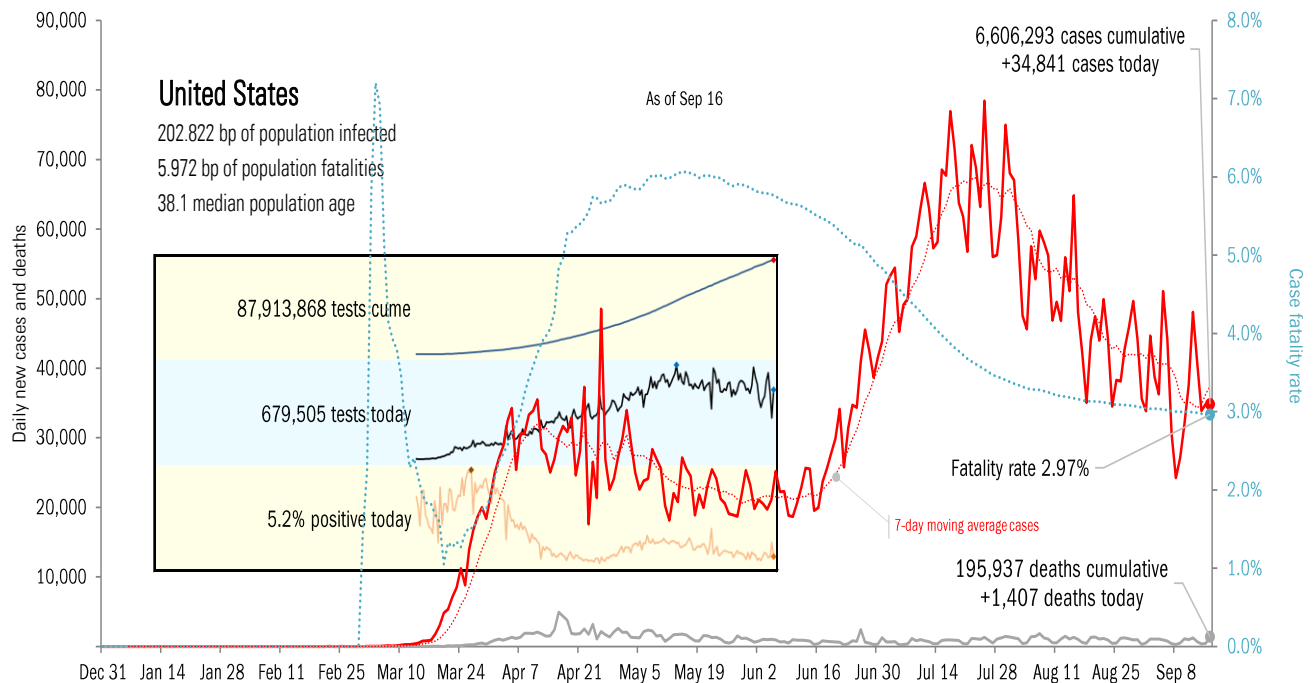
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
TX	+5,301	FL	+146	FL	+281	CA	760,013	NY	25,405	NY	89,995
FL	+3,116	TX	+132	GA	+271	FL	668,846	NJ	16,043	FL	42,127
CA	+2,235	VA	+96	CH	+103	TX	668,746	CA	14,451	GA	26,665
GA	+1,496	CH	+87	VA	+97	NY	445,714	TX	14,343	NJ	23,003
IL	+1,466	CA	+66	OK	+96	GA	296,833	FL	12,946	AZ	21,800
WI	+1,441	NC	+51	TN	+82	IL	266,305	MA	9,225	VA	17,464
MO	+1,317	GA	+45	AR	+66	AZ	209,209	IL	8,564	AL	15,756
PA	+1,151	AL	+32	IN	+62	NJ	197,404	PA	7,875	MD	14,918
NC	+1,106	TN	+30	WI	+56	NC	186,887	MI	6,932	CH	14,481
OK	+1,091	MS	+28	SC	+54	TN	175,231	GA	6,398	MA	12,462
+19,720		+713		+1,168		3,875,188		122,182		278,671	
All states	+35,445	All states	+1,031	All states	+1,491	All states	6,557,762	All states	187,600	All states	389,107
Top ten	56%	Top ten	69%	Top ten	78%	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	
KS	-1,513	PA	-26	AL	-229	TX	+4,708
TN	-1,493	KS	-23	MS	-89	TN	+1,852
CA	-620	WA	-6	KS	-35	CH	+1,422
MI	-547	CT	-5	CR	-31	WI	+1,030
CT	-433	WV	-4	WY	-2	OK	+986



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

Recommended reading

[U.S. Incomes Surged, Poverty Fell to 60-Year Low Before Virus](#)

Reade Pickert, Katia Dmitrieva, and Olivia Rockeman
Bloomberg
September 15, 2020

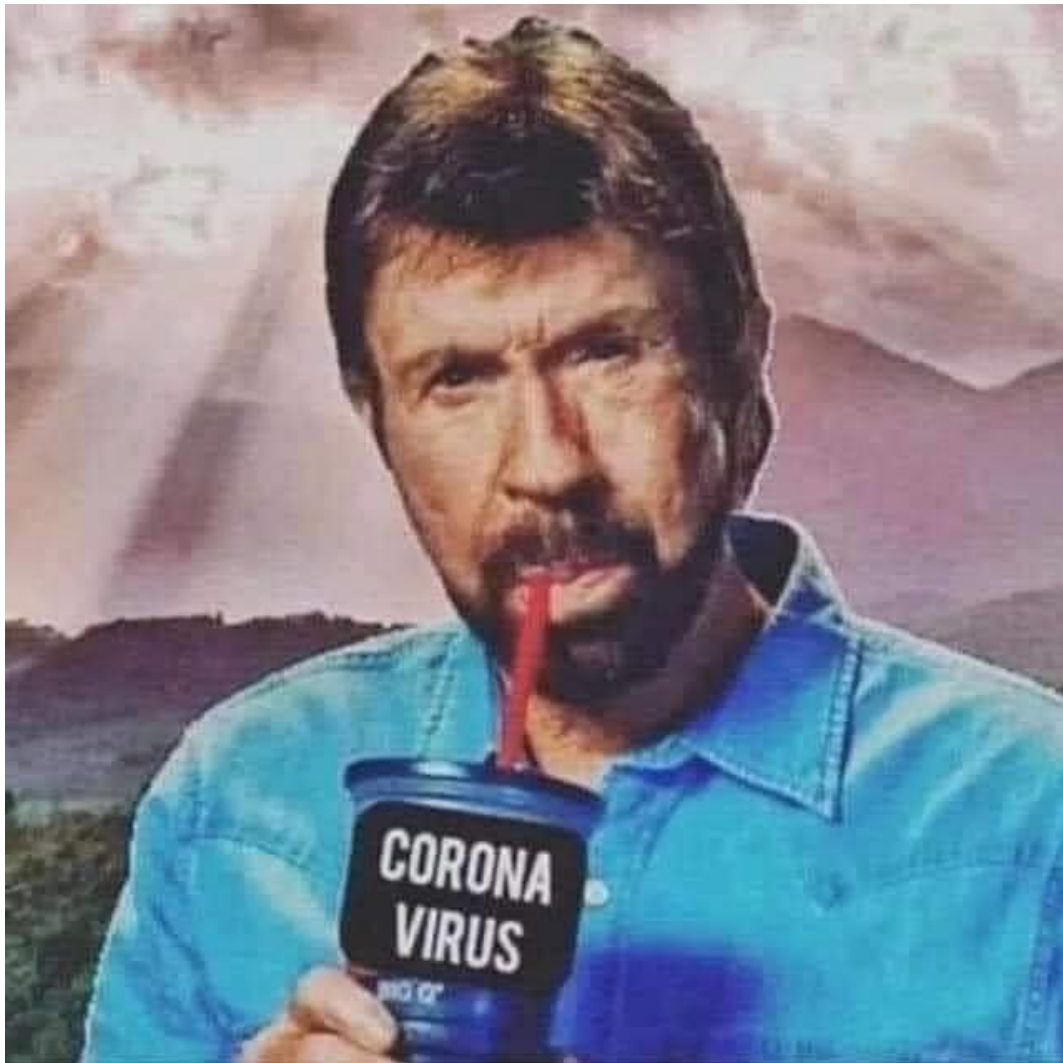
[YouTube's Political Censorship](#)

Wall Street Journal
September 14, 2020

[Stanford doctors take aim at former colleague Scott Atlas, Trump's new adviser on the COVID-19 pandemic](#)

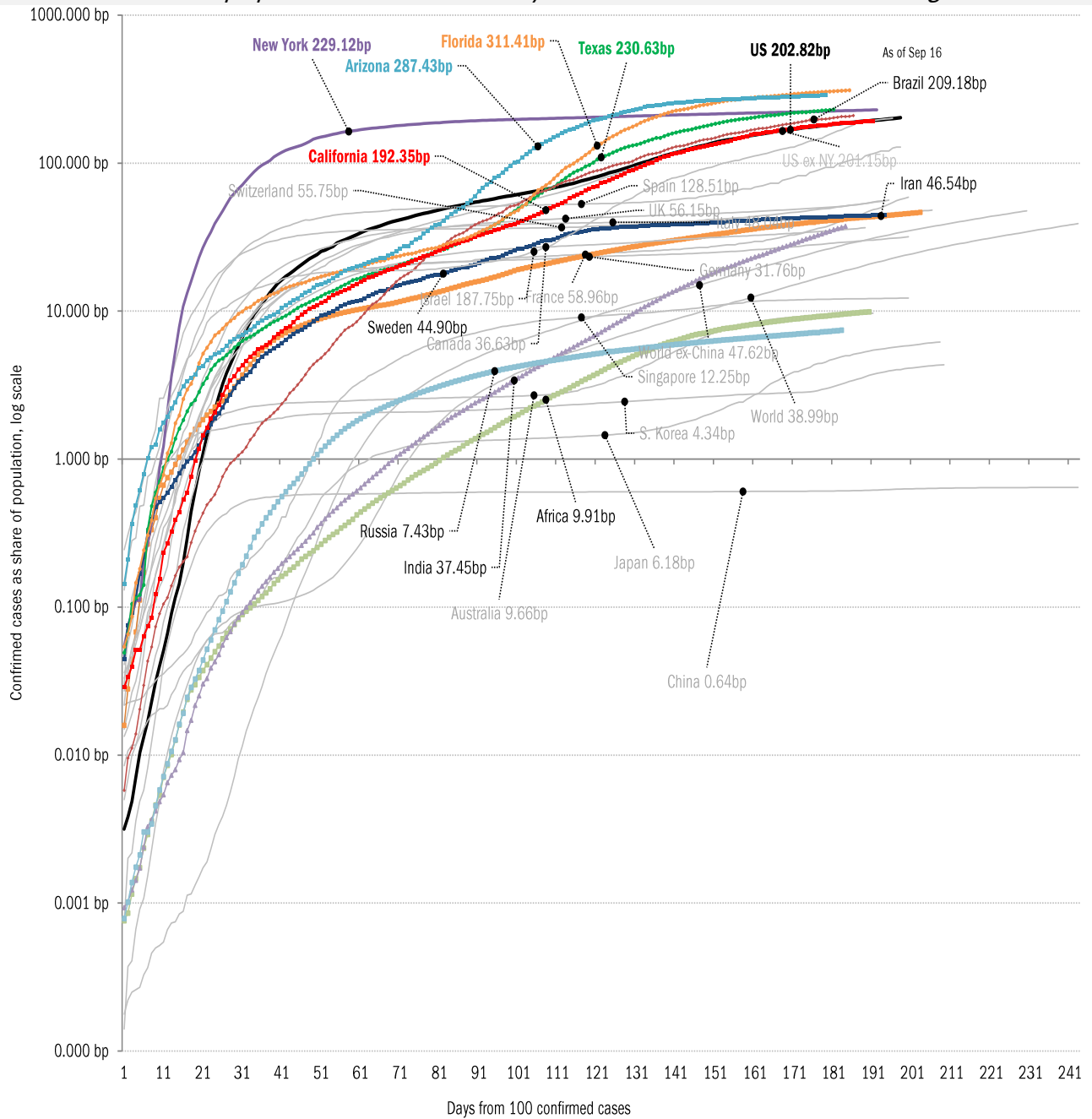
Lisa Krieger
San Jose Mercury News
September 13, 2020

Meme of day



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

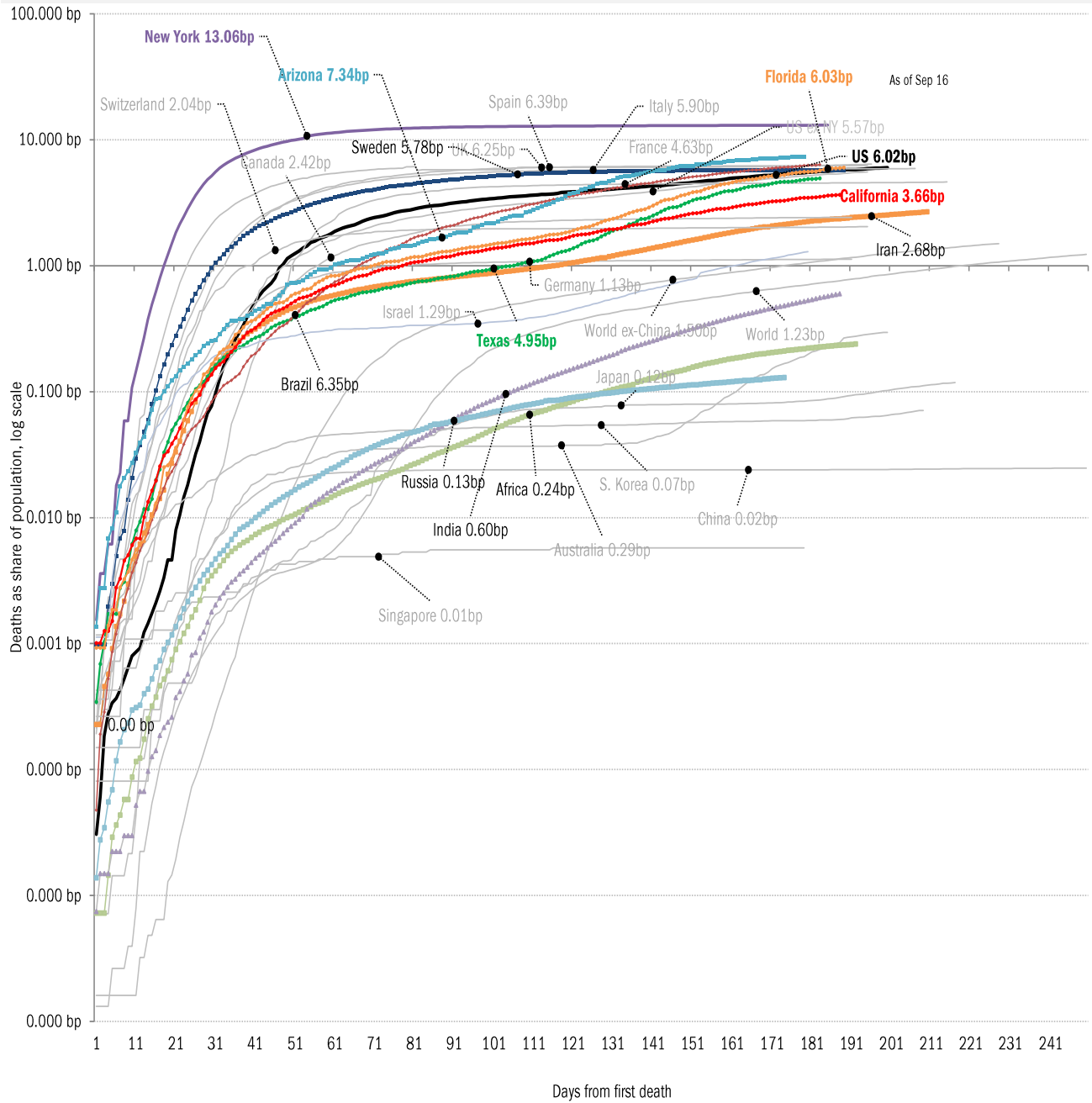
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

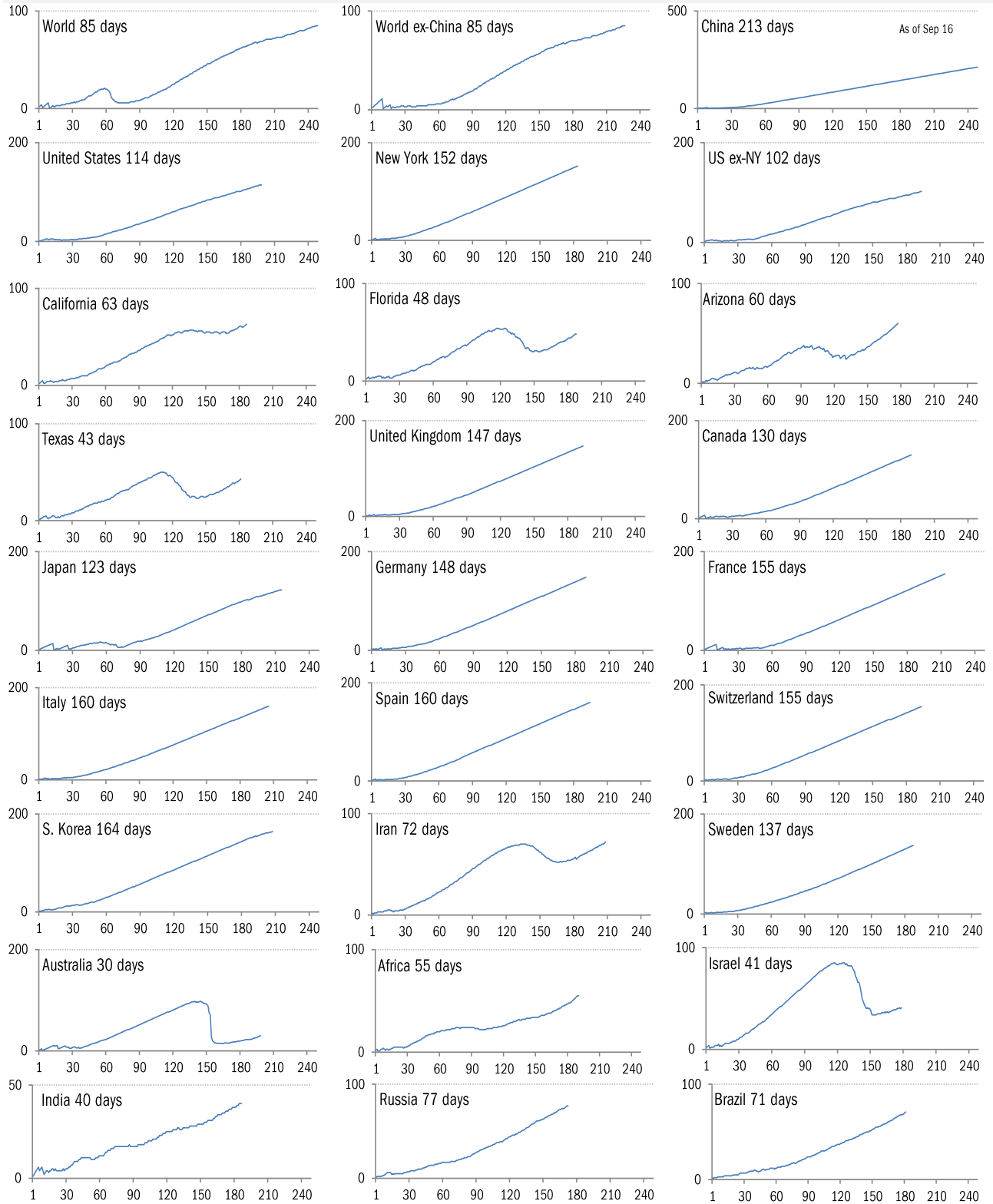


Source: [ECDC](#), TrendMacro calculations

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

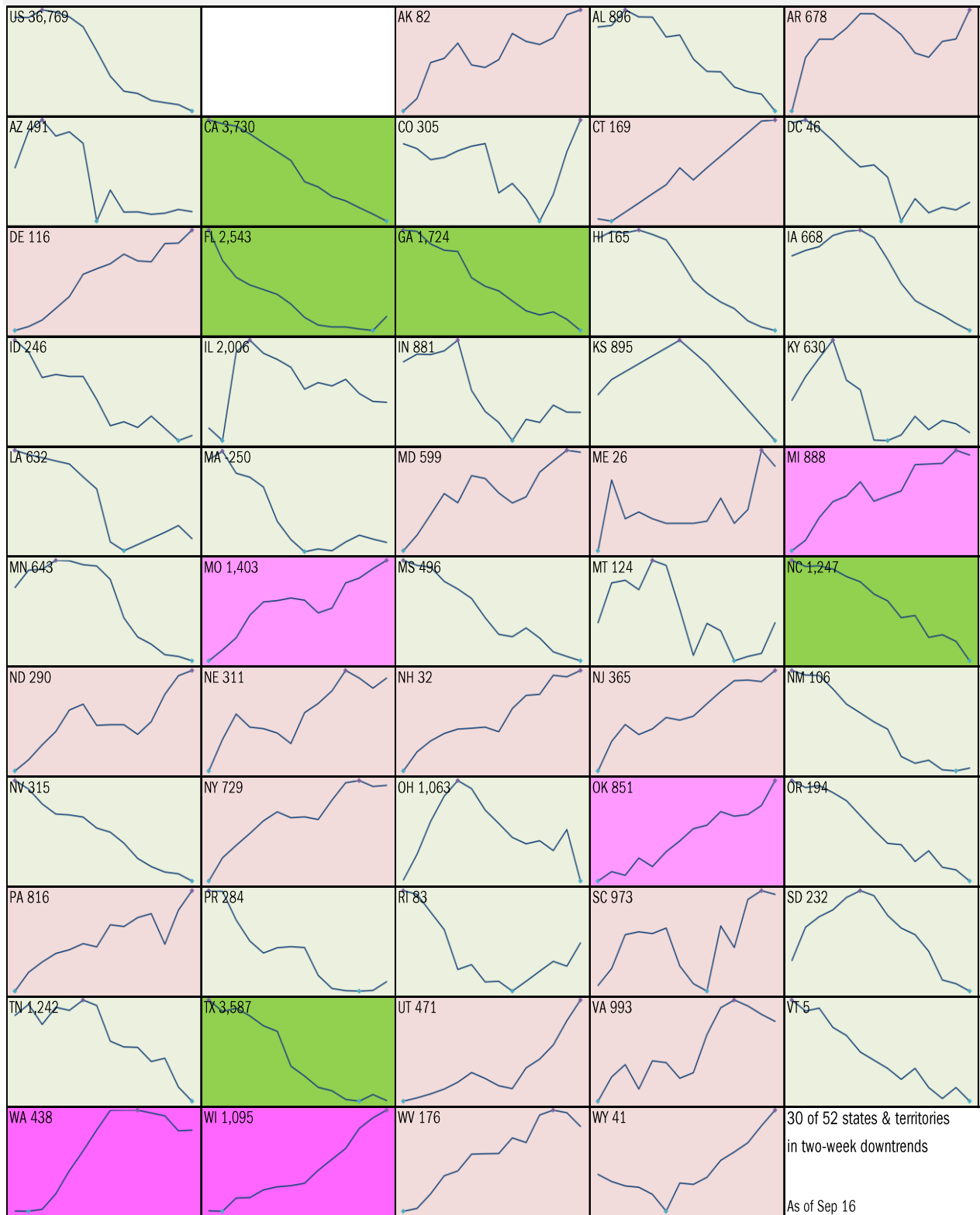
Vertical: days to double deaths Horizontal: days from first death

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

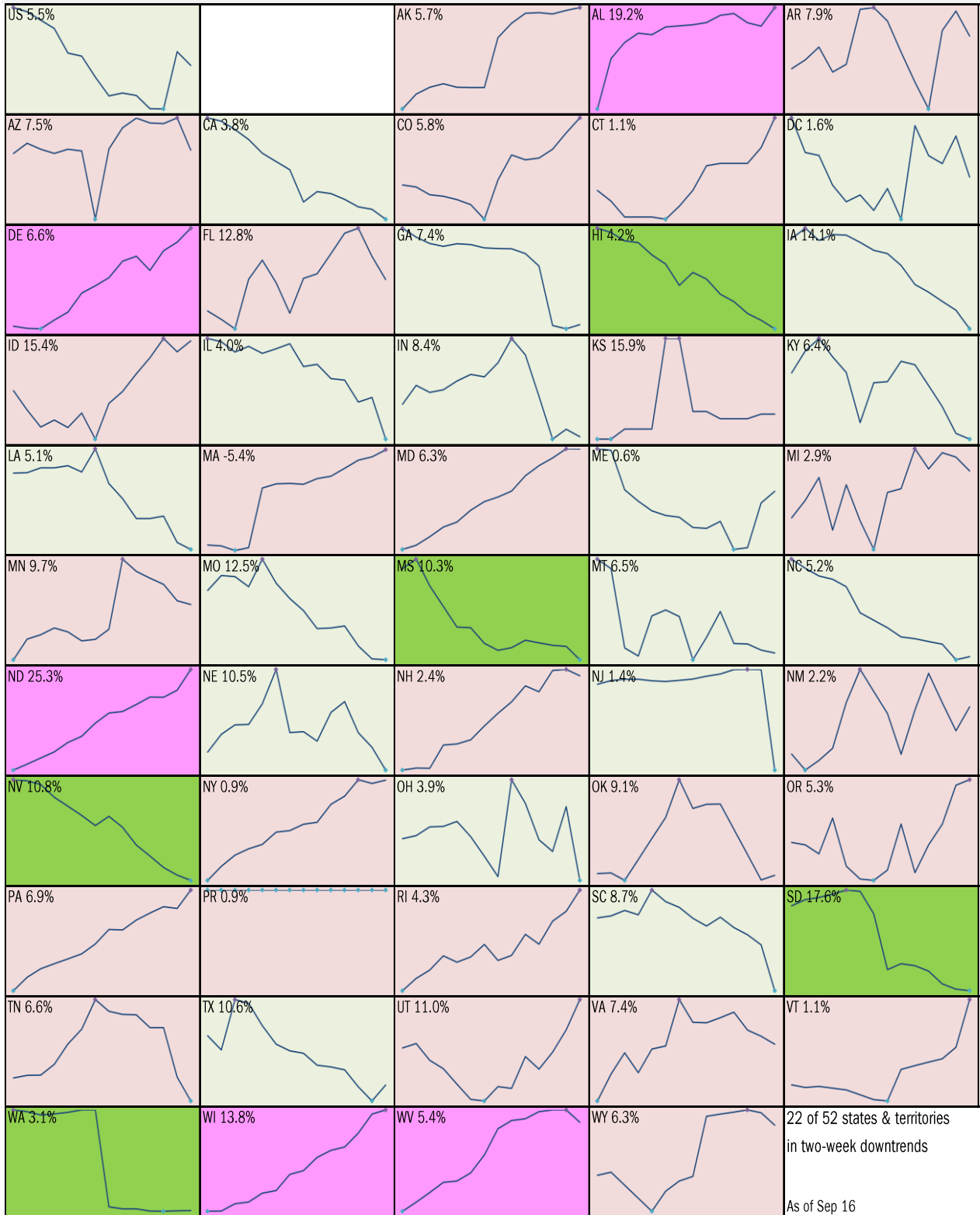


Source: [Covid Tracking Project](#), TrendMacro calculations

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



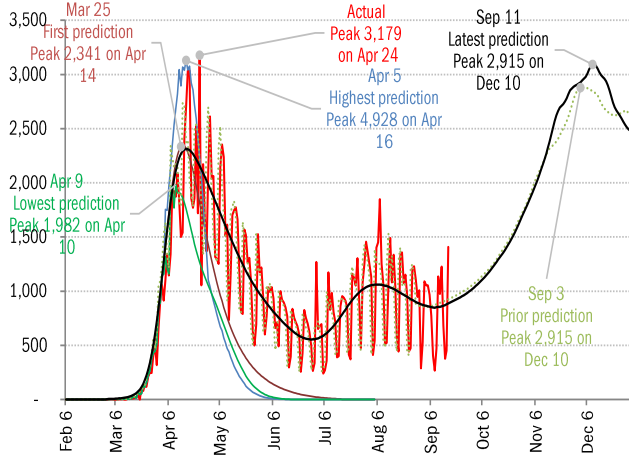
Source: [Covid Tracking Project](#), TrendMacro calculations

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

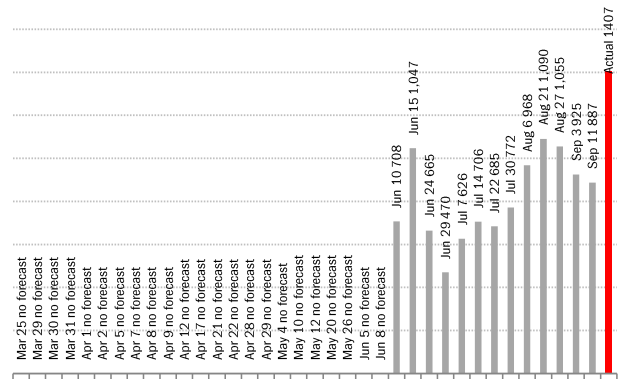
New daily fatalities

As of Sep 16

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

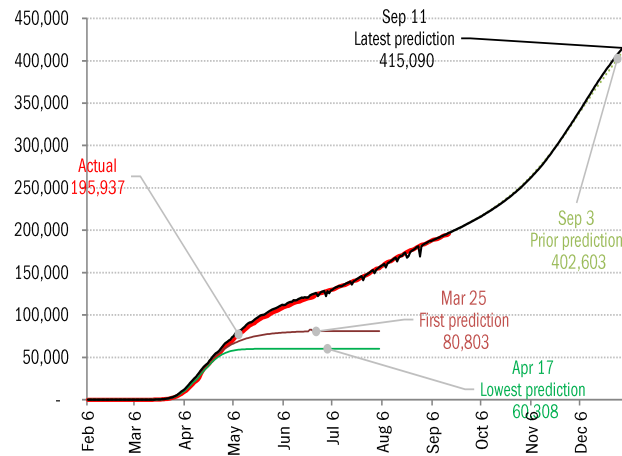


For this day, versus all model mean predictions

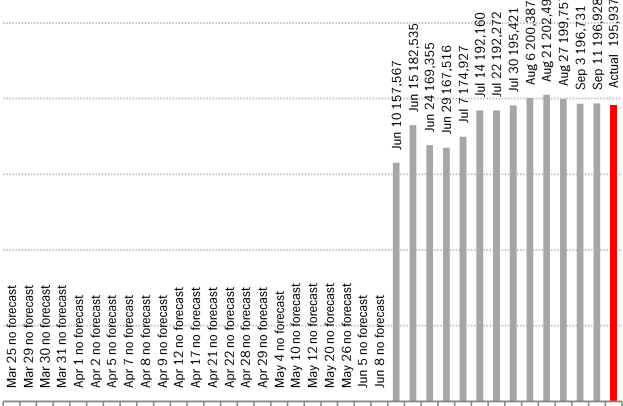


Cumulative fatalities

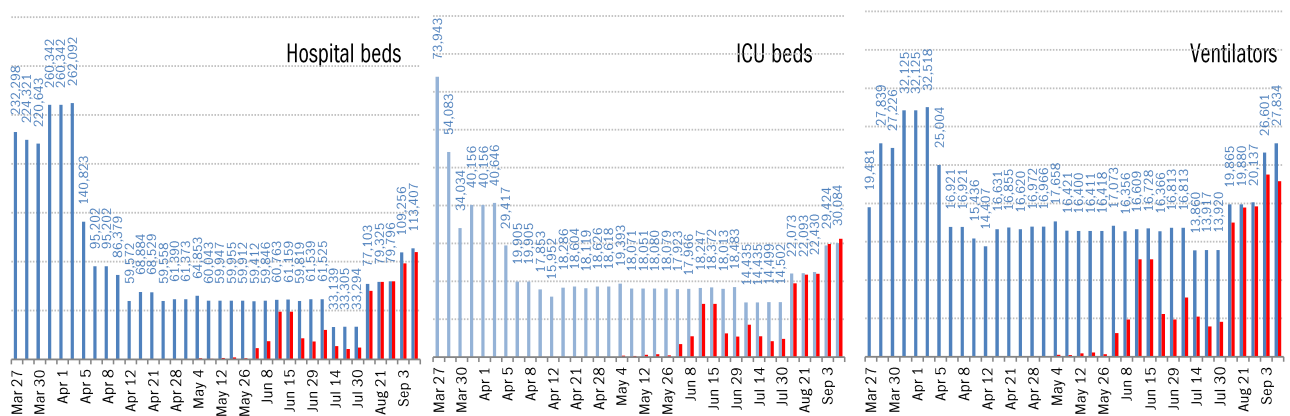
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

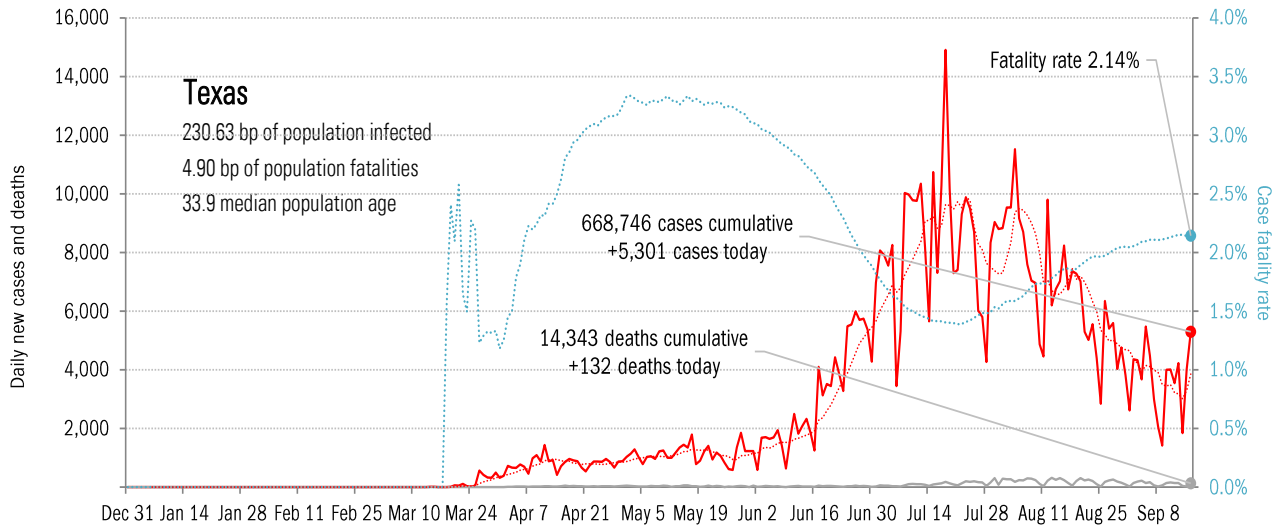
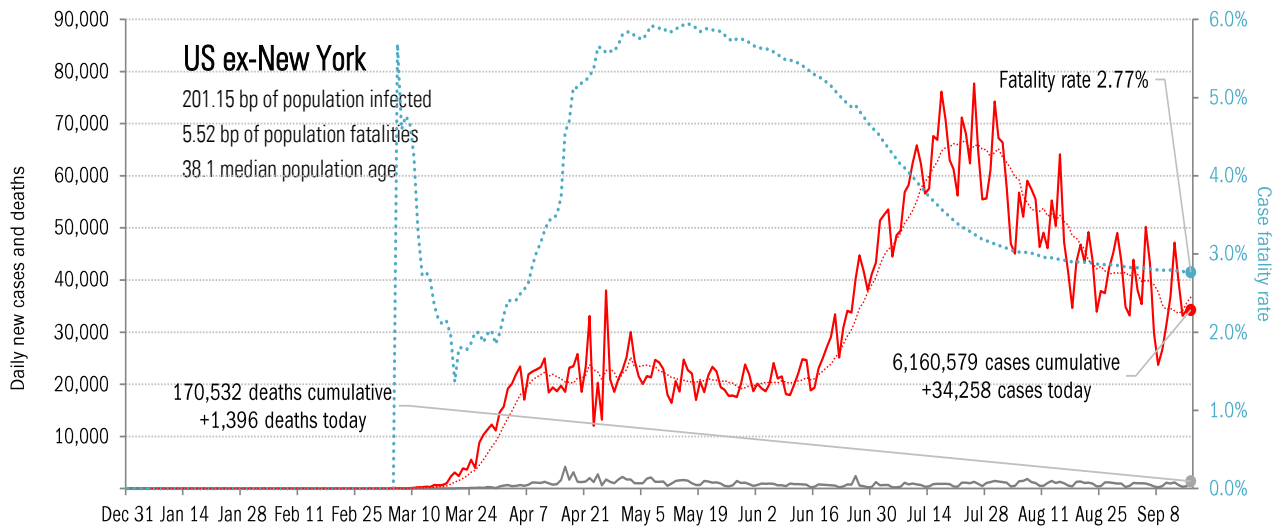
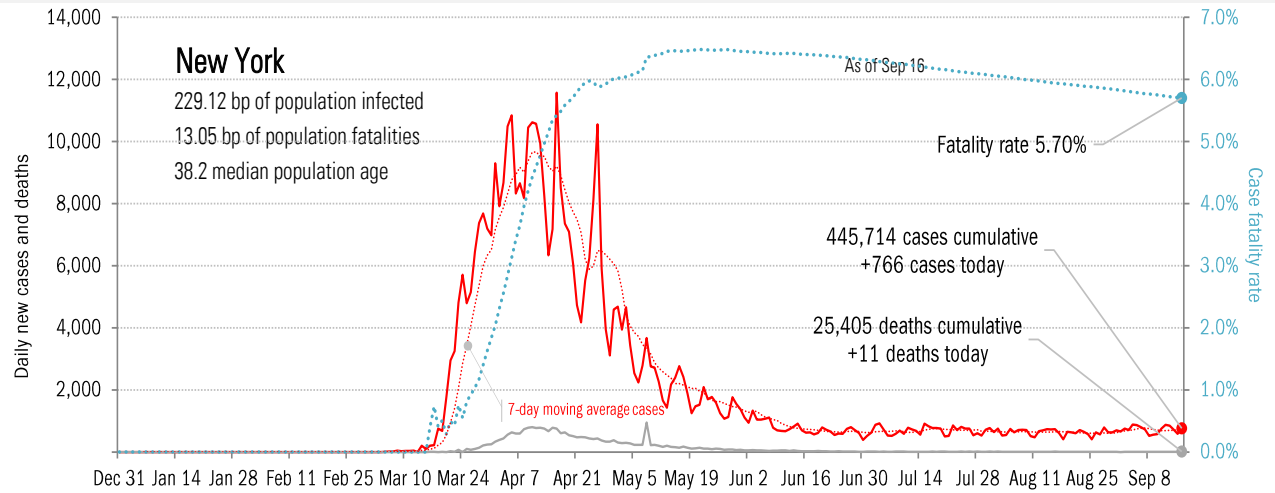


Healthcare system stress, peak and ultimate estimated at each model revision



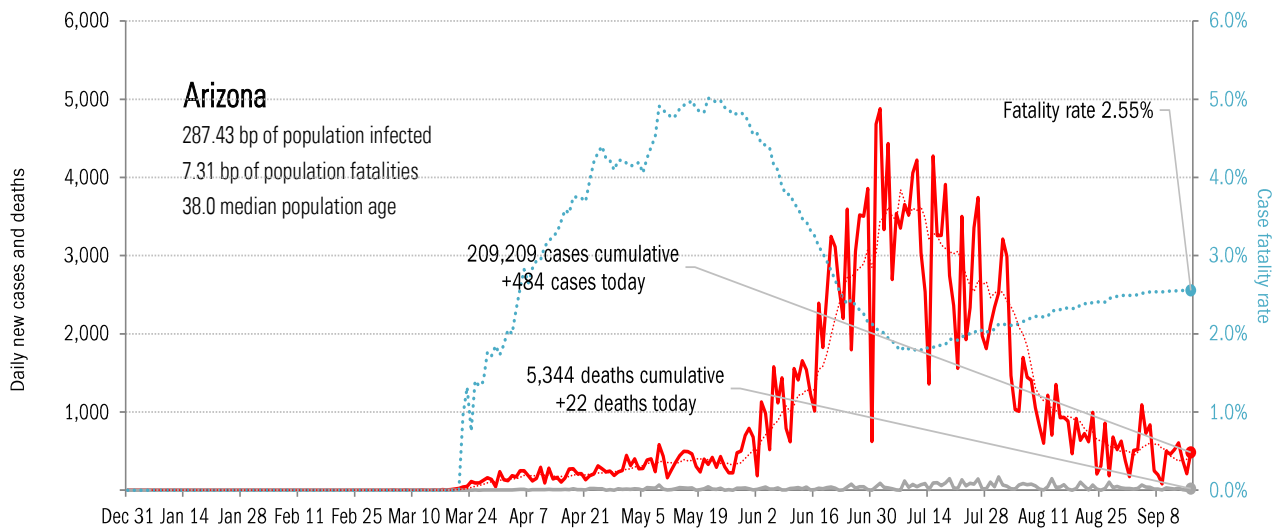
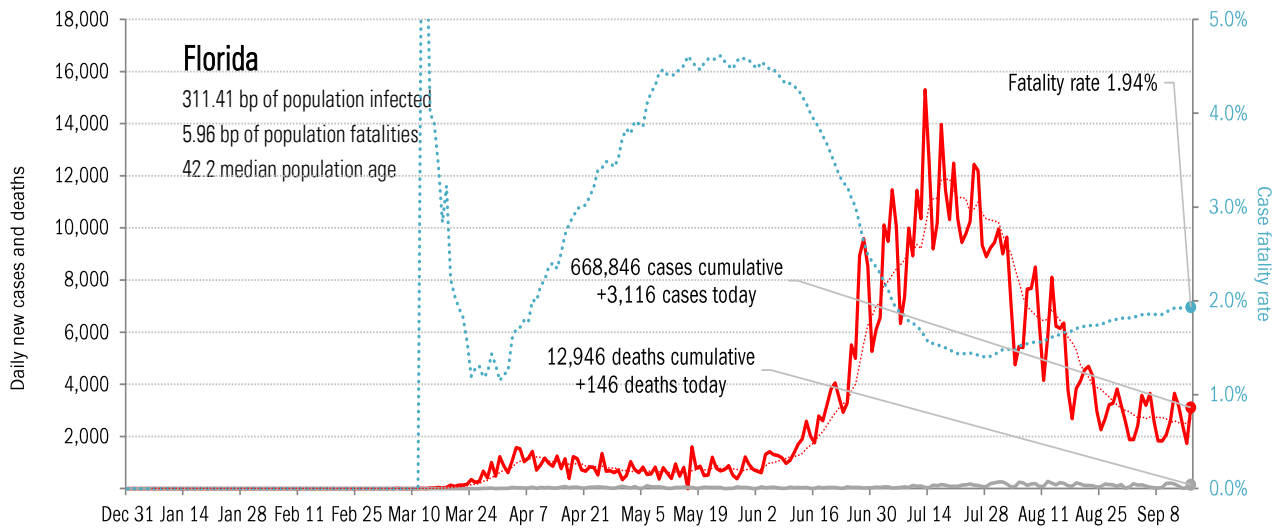
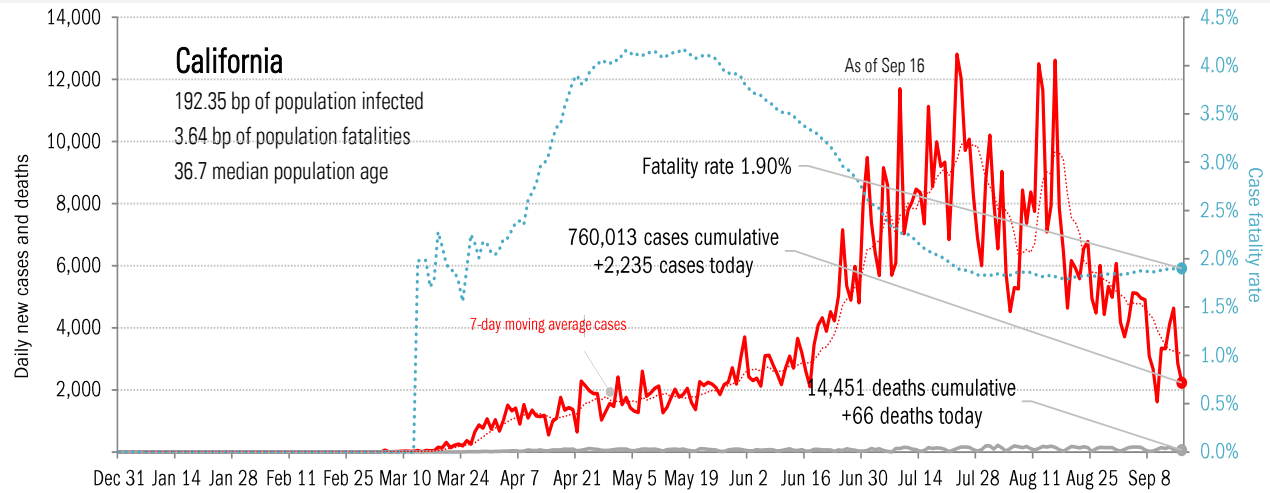
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



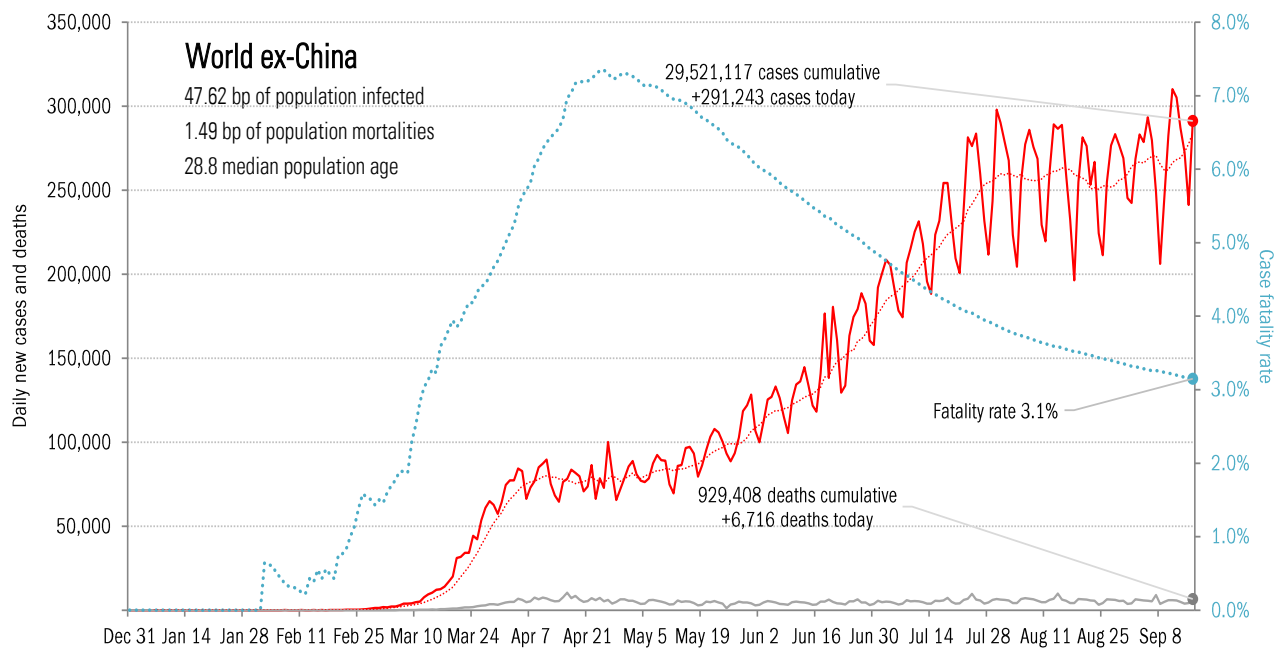
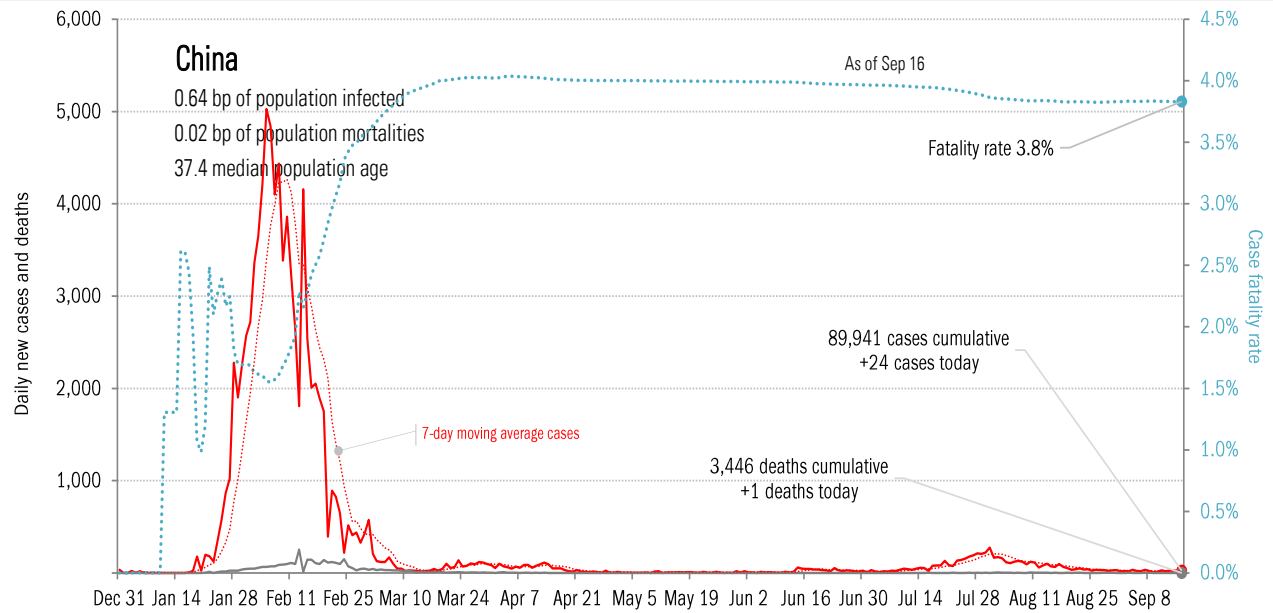
Source: [ECDC](#), TrendMacro calculations

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



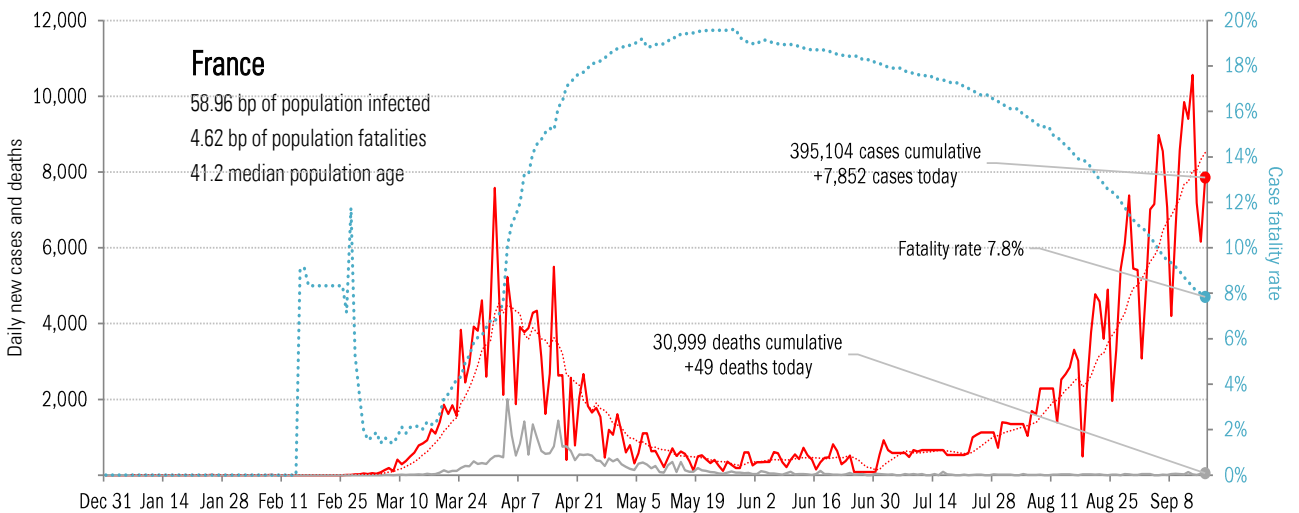
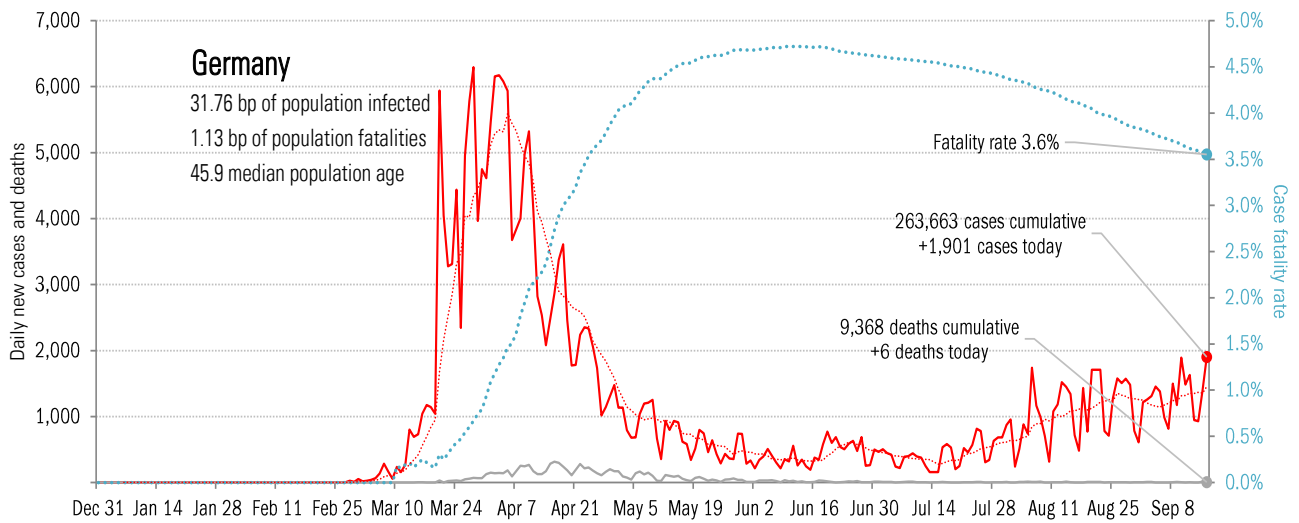
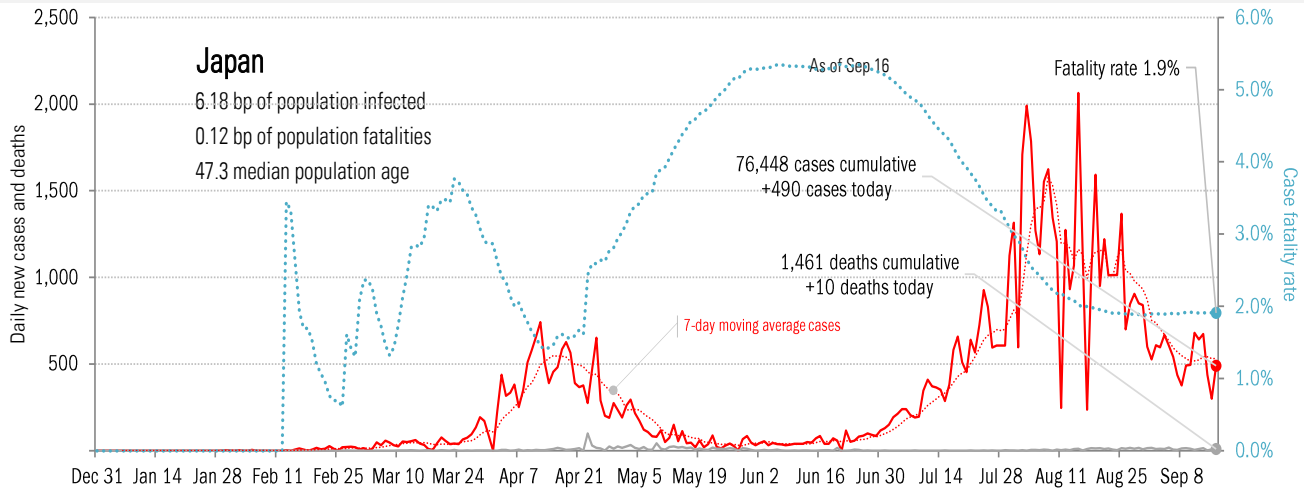
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



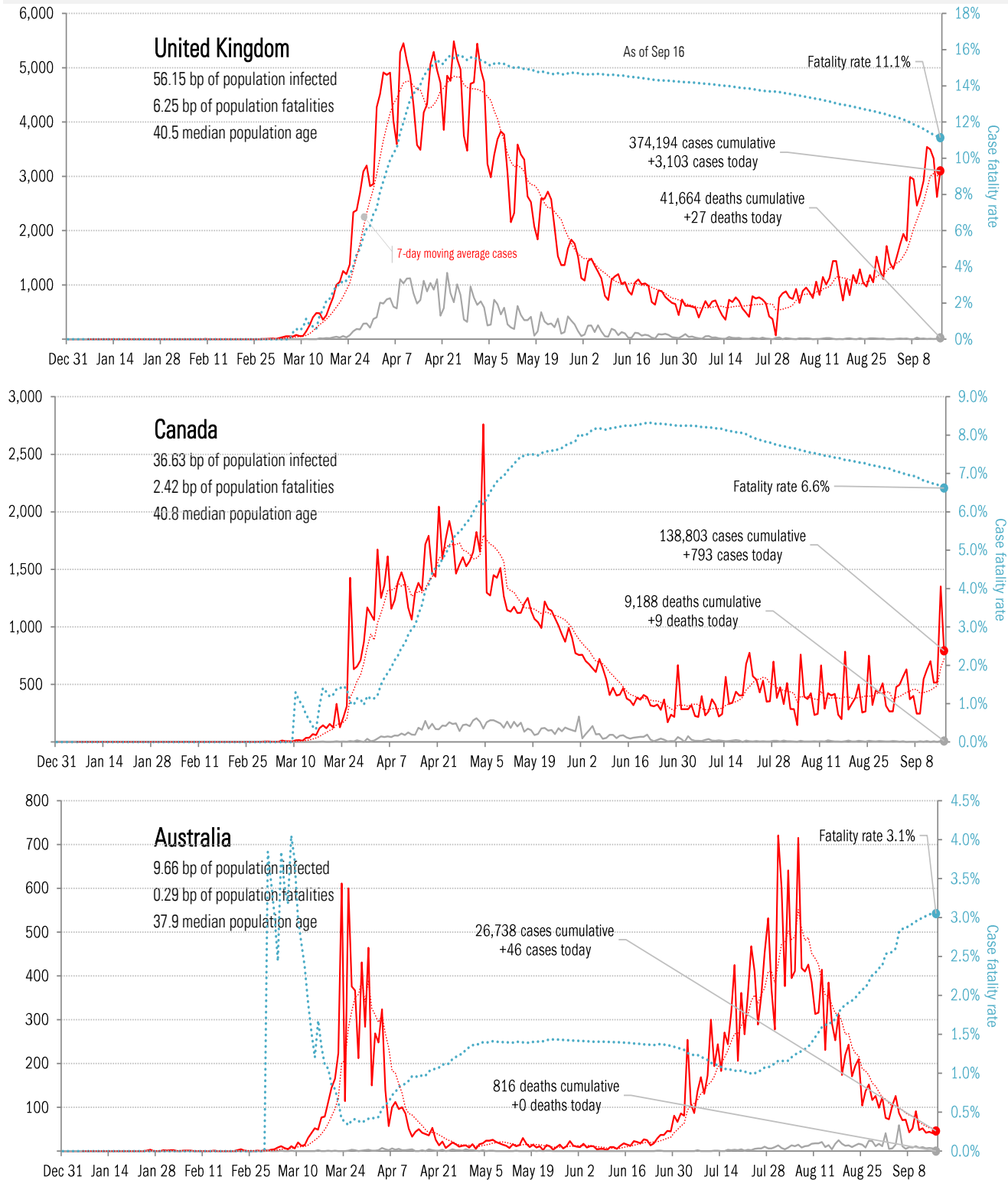
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



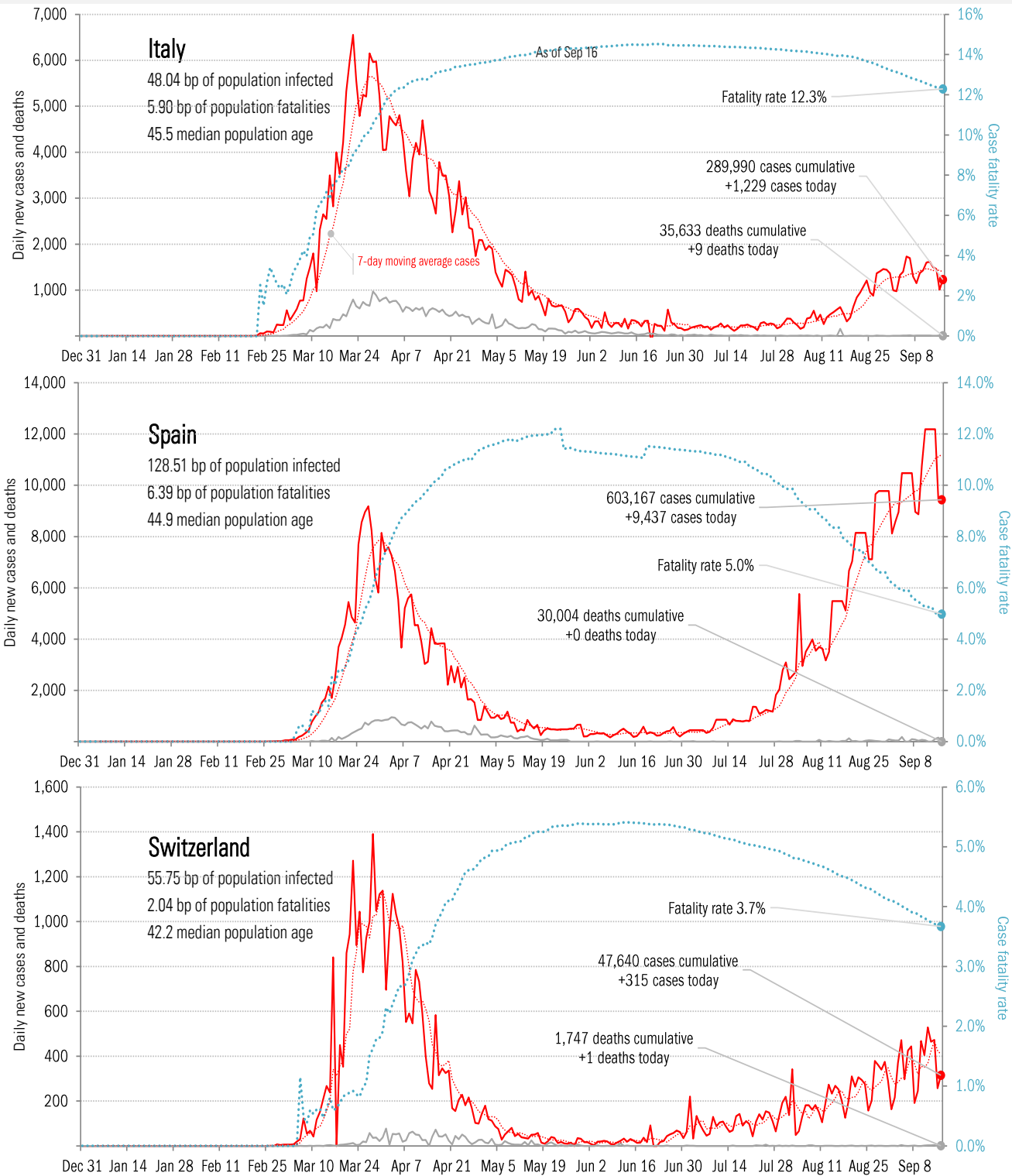
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



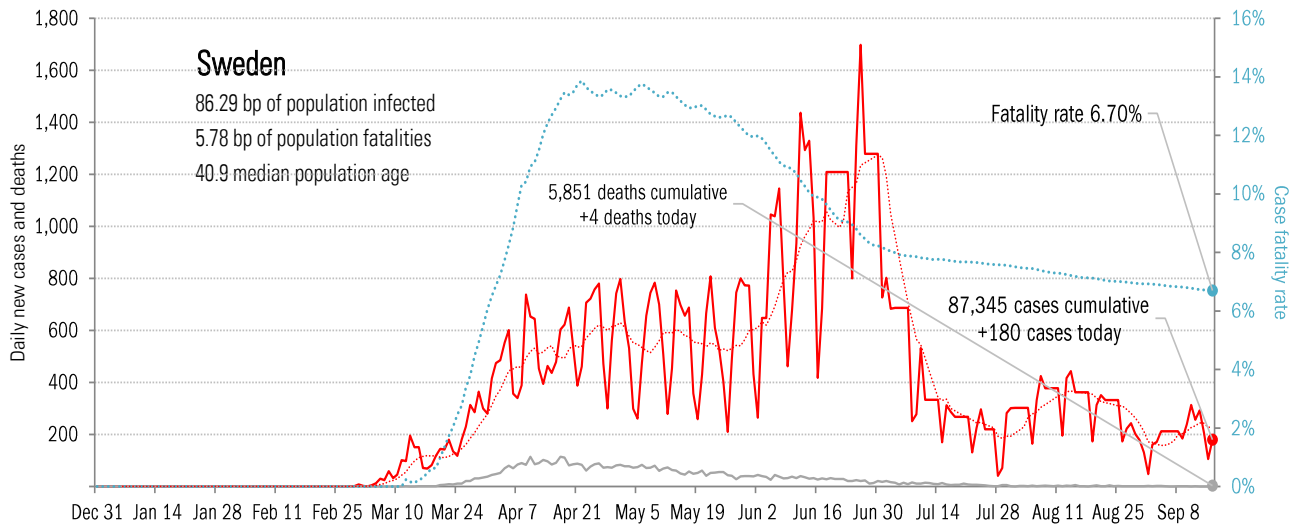
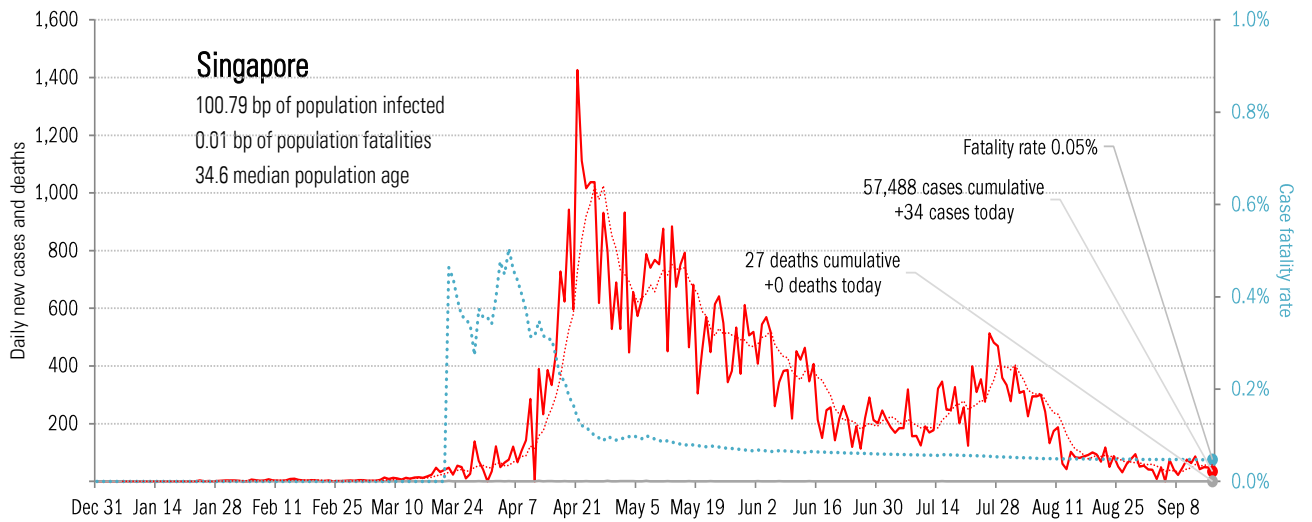
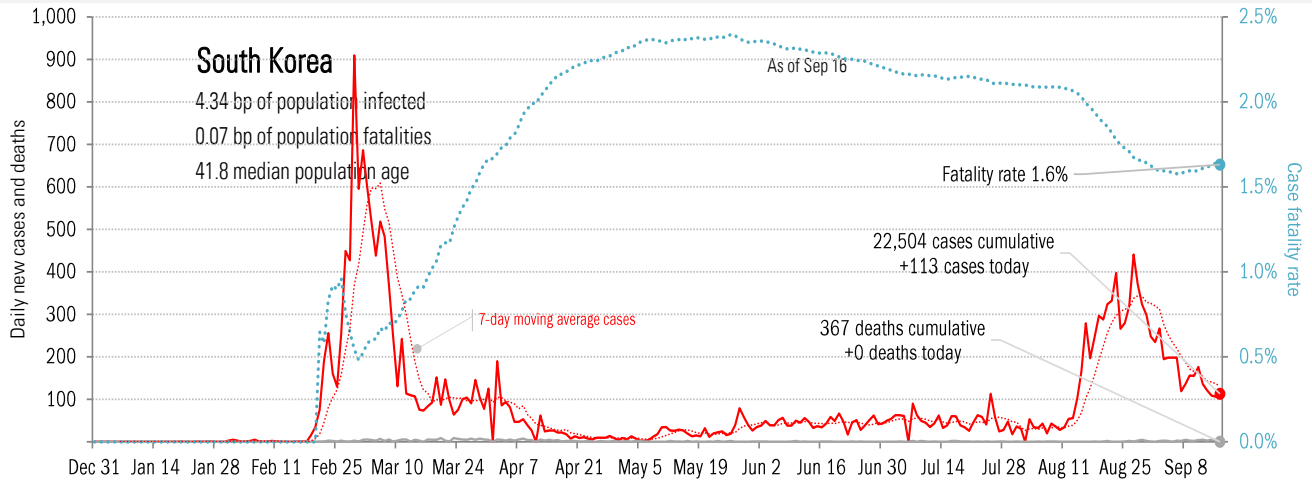
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



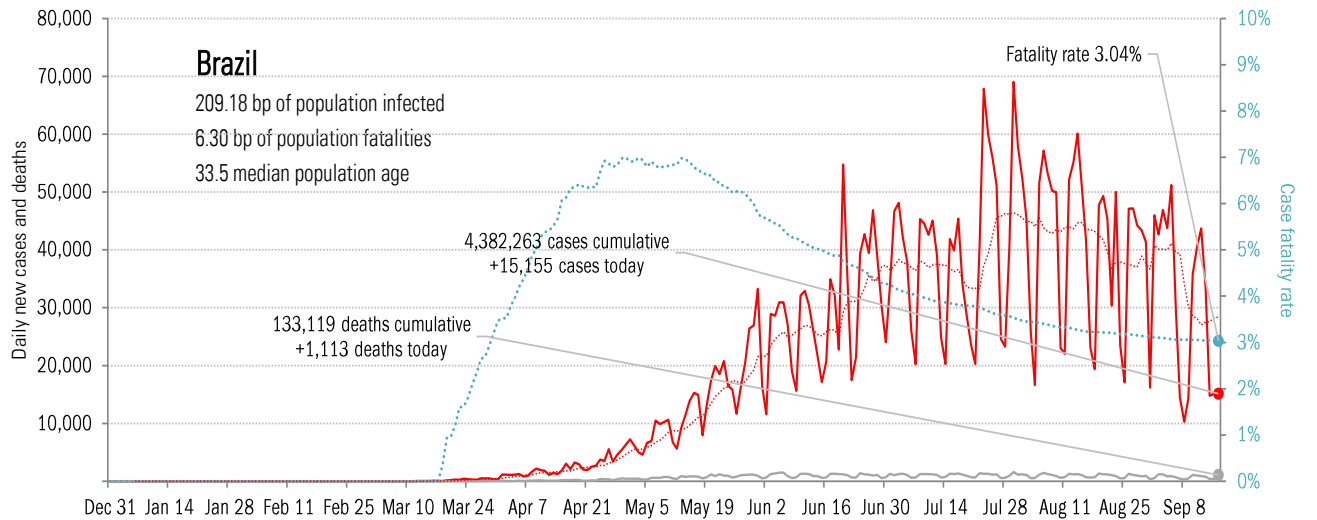
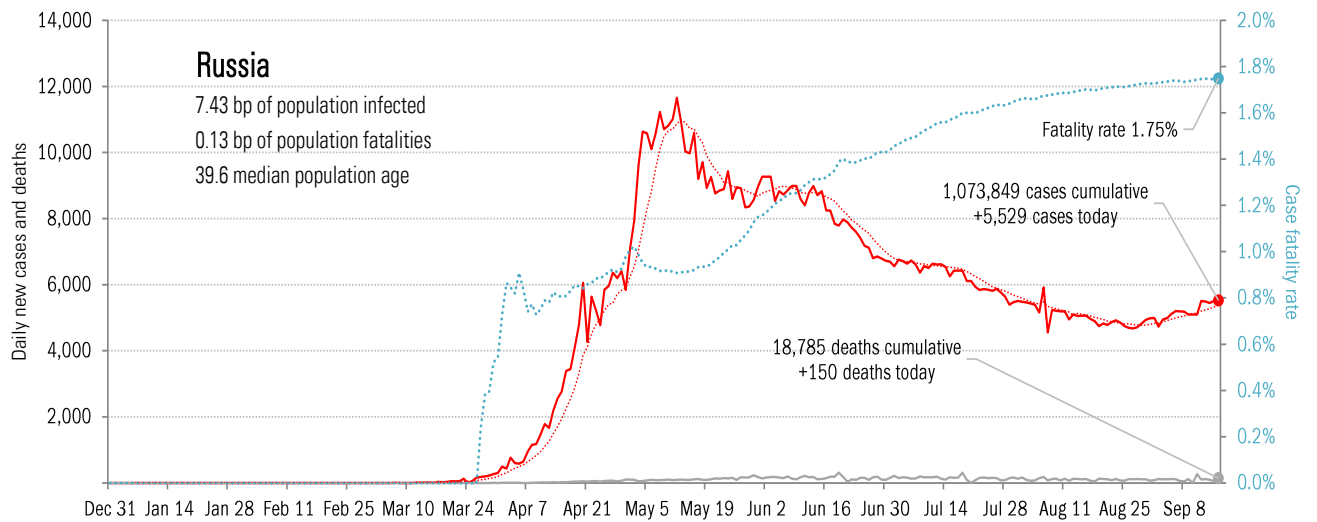
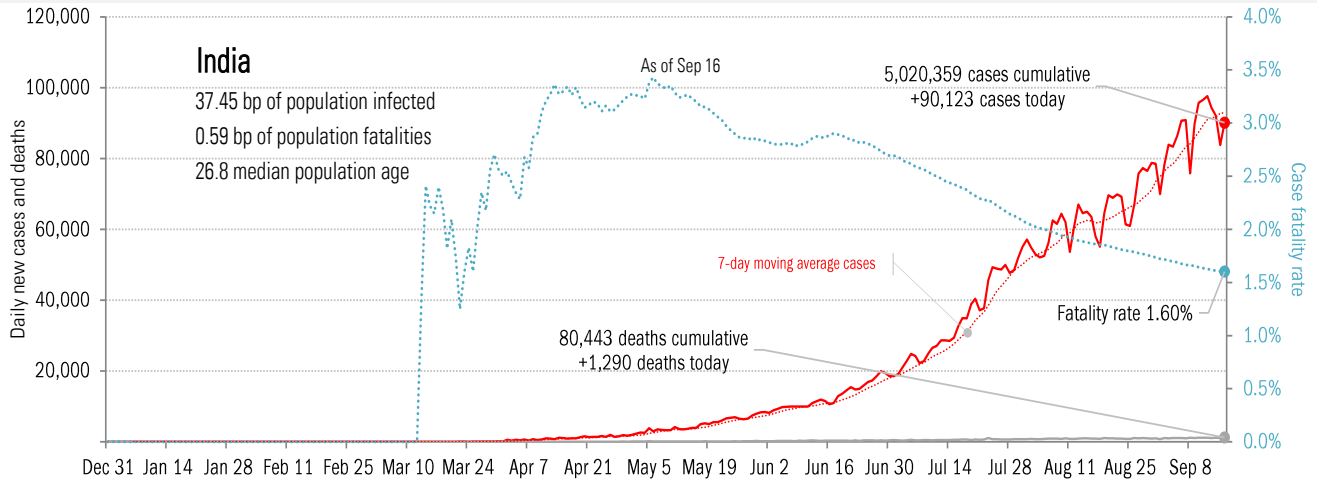
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



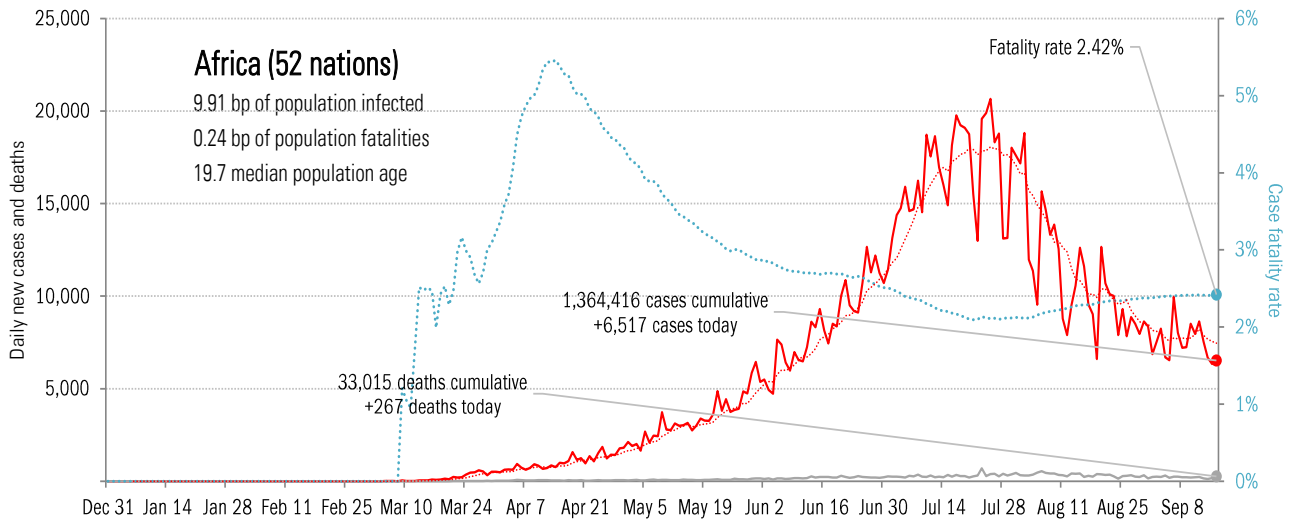
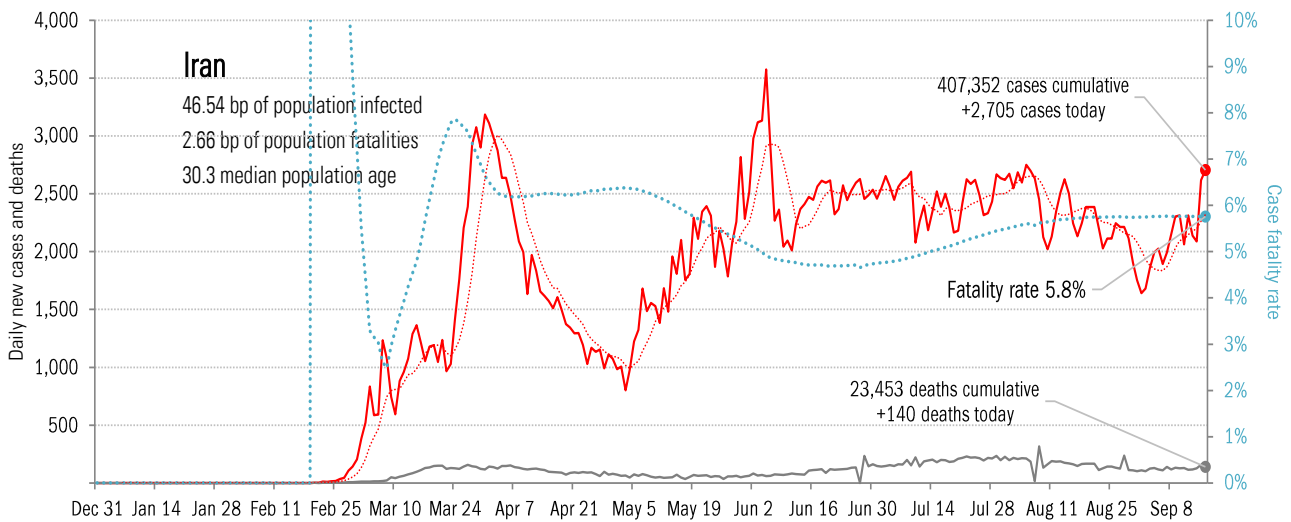
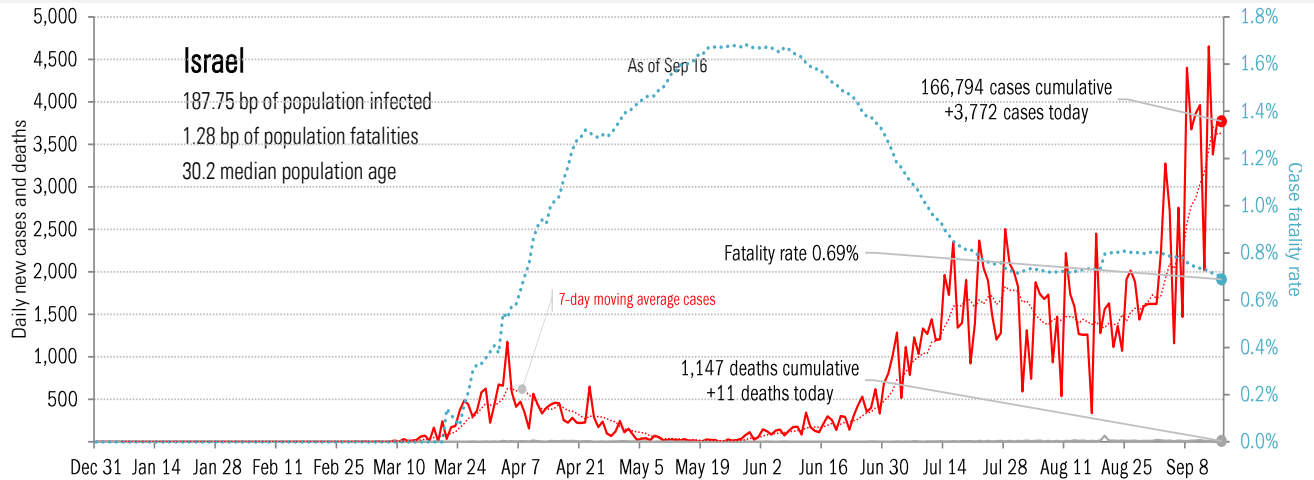
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations