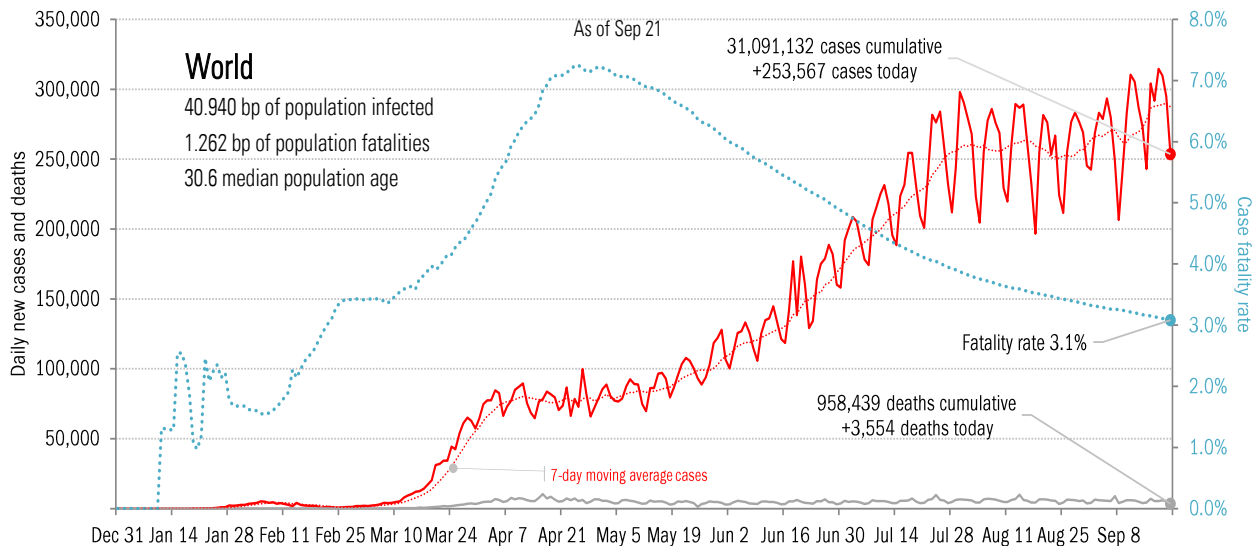
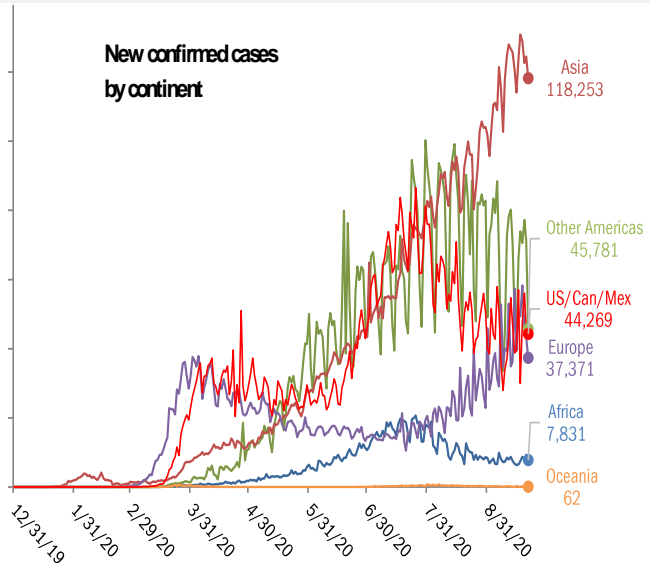


Data Insights: Covid-2019 Monitor

Monday, September 21, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+86,961	India	+1,130
US	+39,852	Brazil	+363
Brazil	+16,389	US	+251
France	+11,569	Mexico	+235
Argentina	+9,276	Argentina	+204
Colombia	+6,678	Iran	+183
Russia	+6,148	Colombia	+169
Peru	+6,030	Indonesia	+105
Israel	+4,825	Russia	+79
Indonesia	+3,989	Iraq	+64
+191,717		+2,783	
World	+253,567	World	+3,554
Top ten	76%	Top ten	78%



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

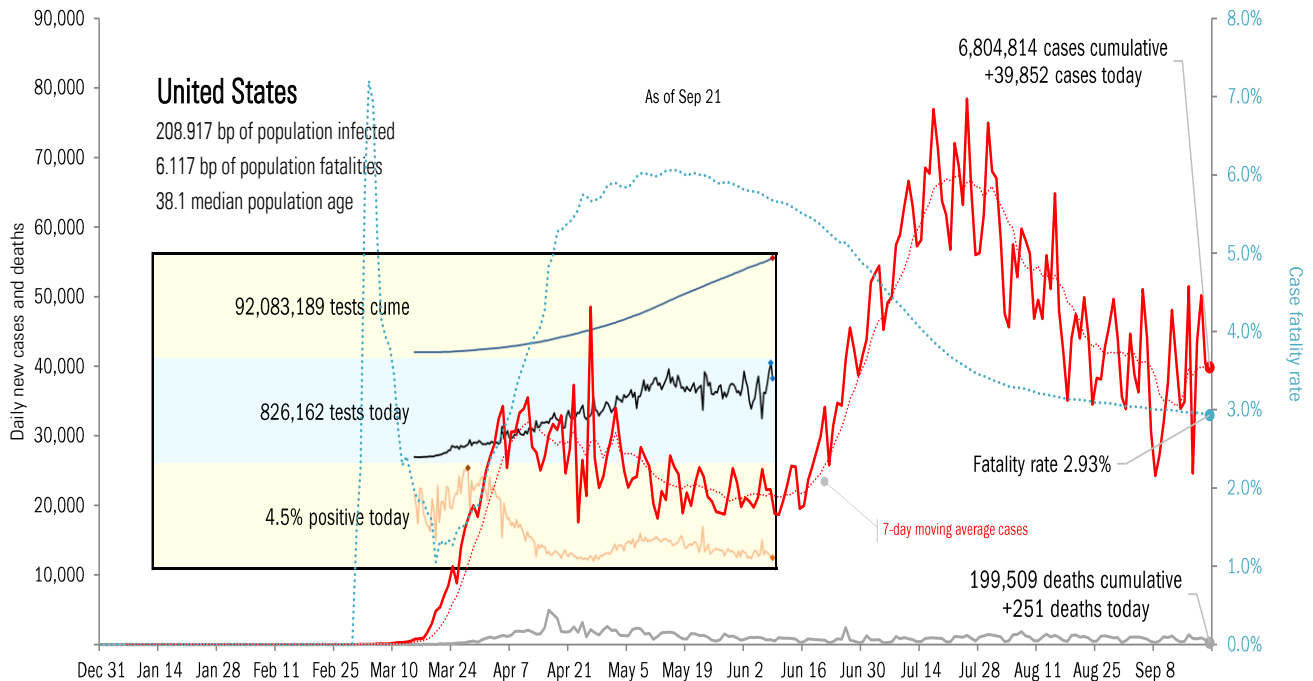
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
CA	+4,265	CA	+75	FL	+81	CA	778,400	NY	25,427	NY	89,995
FL	+2,521	TX	+45	IN	+52	TX	688,534	NJ	16,067	FL	42,939
TX	+2,466	LA	+26	TN	+43	FL	683,754	CA	14,987	GA	27,377
TN	+2,075	PA	+25	GA	+39	NY	449,900	TX	14,893	NJ	23,130
WI	+1,735	VA	+25	MN	+39	GA	306,155	FL	13,459	AZ	21,876
AR	+1,641	MA	+15	WI	+34	IL	276,456	MA	9,310	VA	17,819
IL	+1,402	IL	+14	WA	+33	AZ	214,018	IL	8,686	AL	16,227
NC	+1,333	SC	+11	SC	+30	NJ	199,762	PA	7,981	MD	15,119
MO	+1,328	AZ	+9	H	+26	NC	193,581	MI	6,969	CH	14,773
MN	+1,296	FL	+9	CH	+23	TN	183,514	GA	6,602	MA	12,545
+20,062		+254		+400		3,974,074		124,381		281,800	
All states	+37,291	All states	+324	All states	+510	All states	6,770,401	All states	191,627	All states	395,197
Top ten	54%	Top ten	78%	Top ten	78%	Top ten	59%	Top ten	65%	Top ten	71%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TX	-1,361	TX	-90	GA	-96	TX	+3,688
GA	-1,150	GA	-59	CK	-88	AR	+1,850
IL	-1,127	FL	-54	AR	-63	WI	+1,192
FL	-1,052	MS	-28	FL	-62	MN	+929
MS	-875	CA	-25	VA	-60	TN	+862



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

Recommended reading

[You Can Trust the FDA's Vaccine Process](#)

Scott Gottlieb and Mark McClellan

Wall Street Journal

September 20, 2020

[Sweden spared surge of virus cases but many questions remain](#)

David Keyton

Associated Press

September 20, 2020

[Open letter from medical doctors and health professionals to all Belgian authorities and all Belgian media.](#)

Stephen Addis et al.

Docs 4 Open Debate

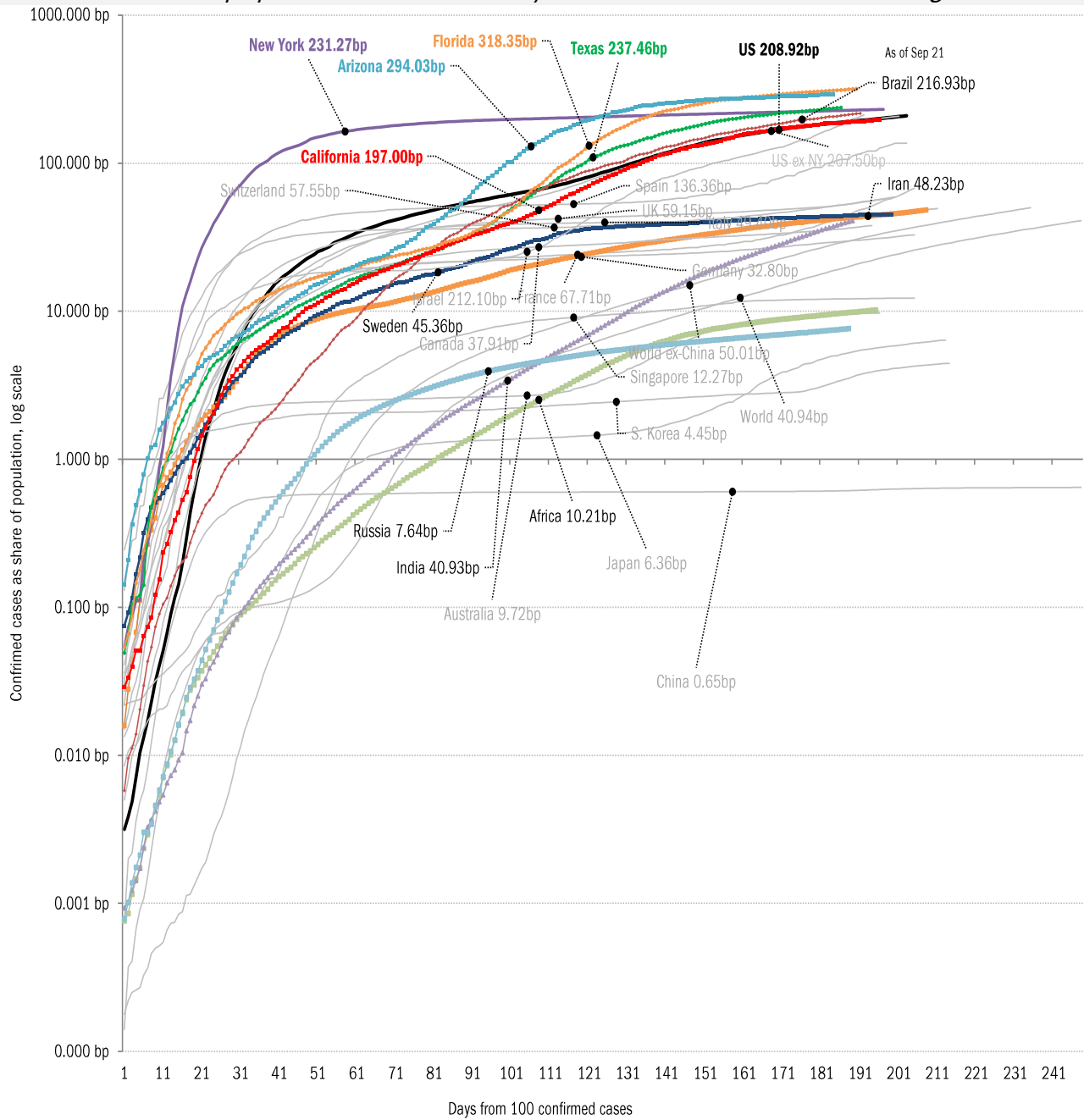
September 5, 2020

Meme of day



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

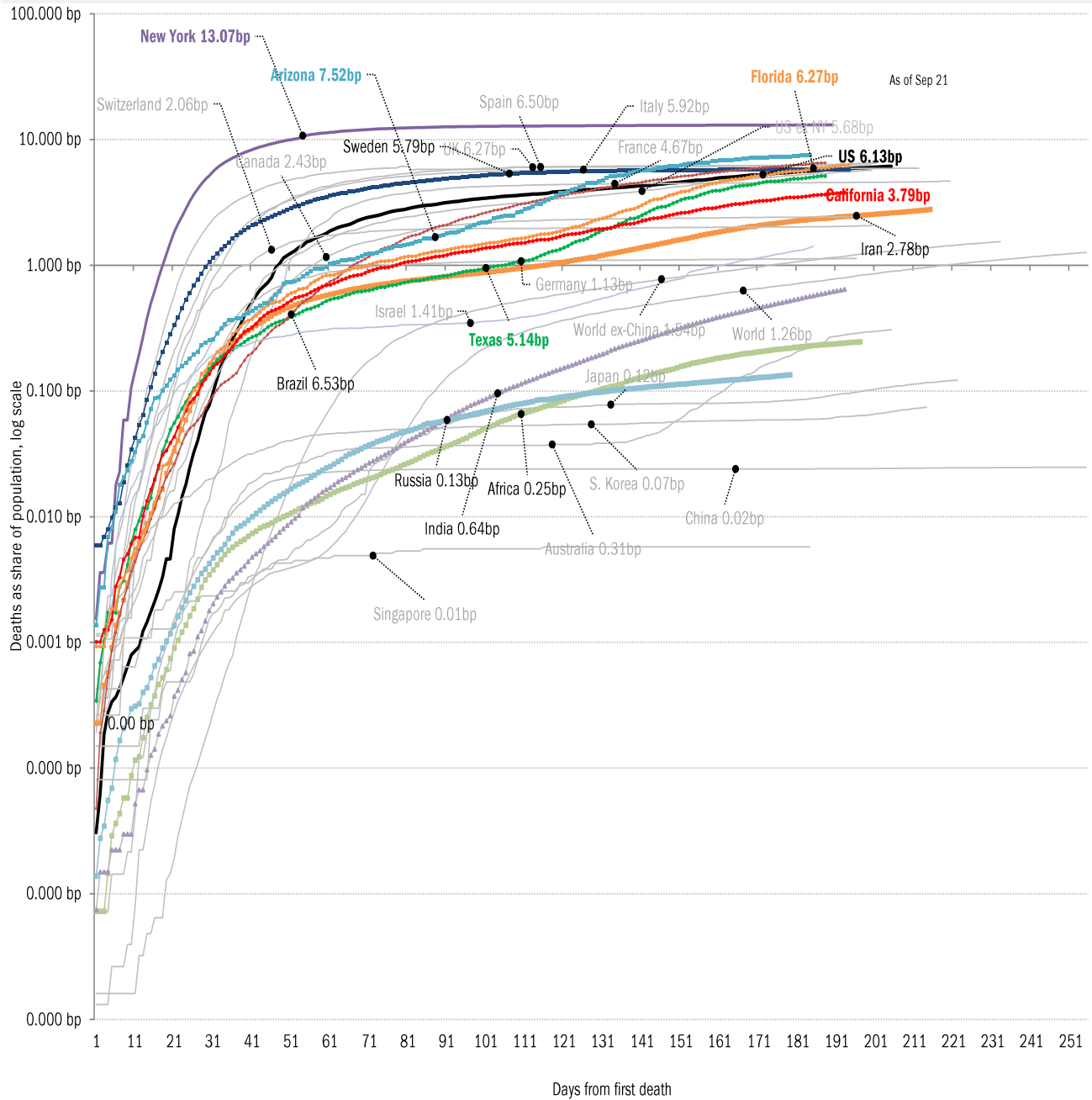
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

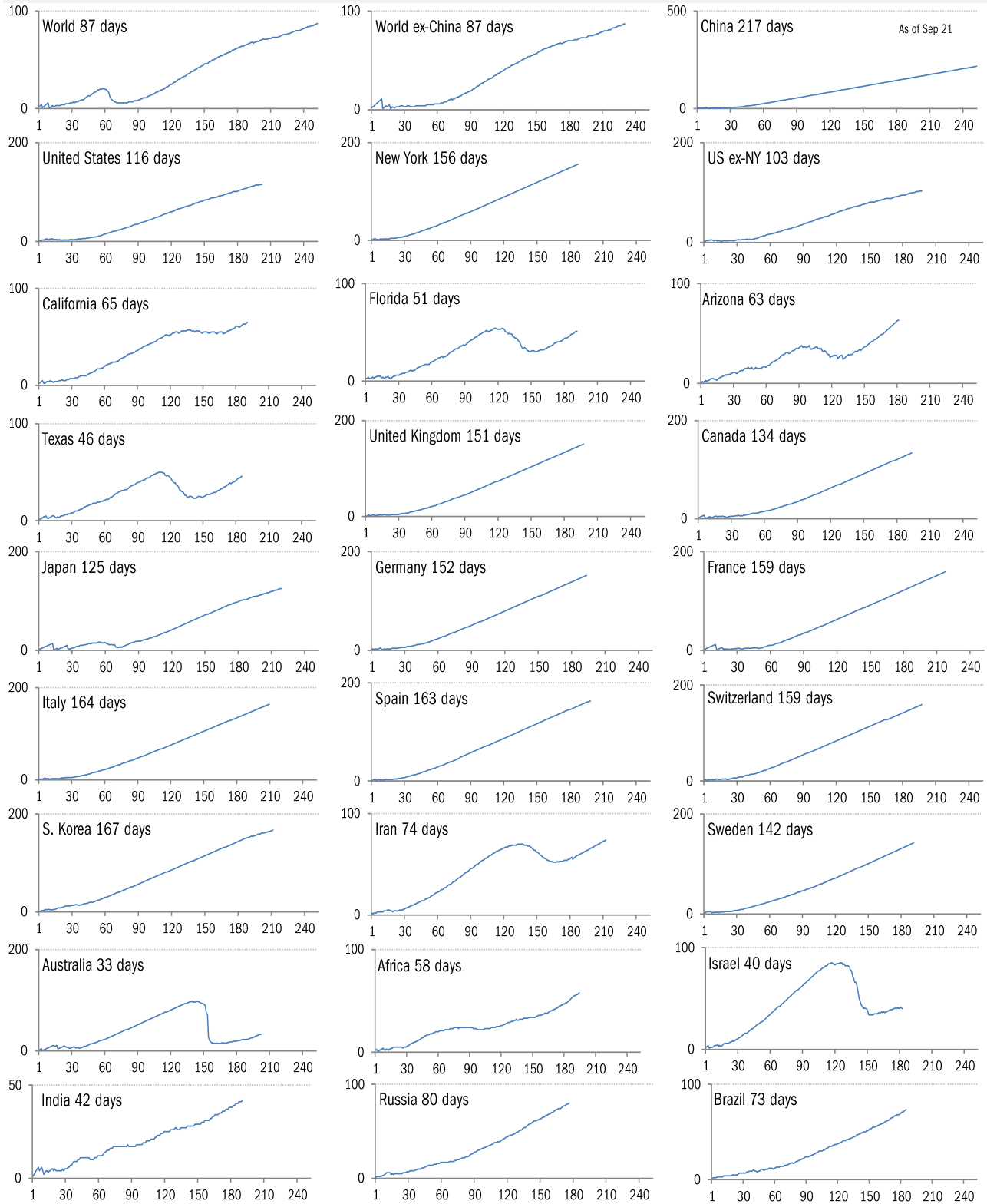


Source: [ECDC](#), TrendMacro calculations

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

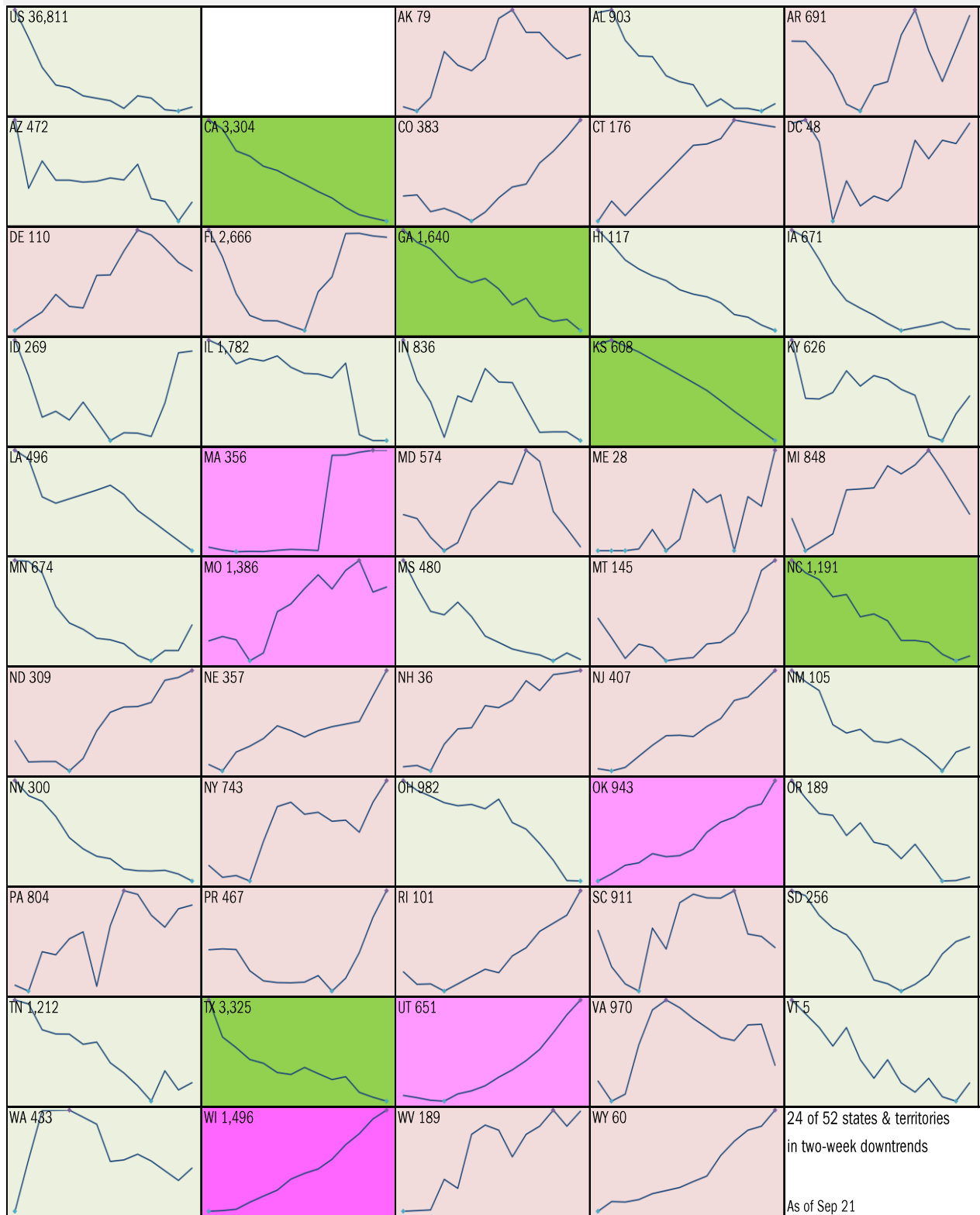
Vertical: days to double deaths Horizontal: days from first death

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



Source: [ECDC](https://ecdc.europa.eu/), 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



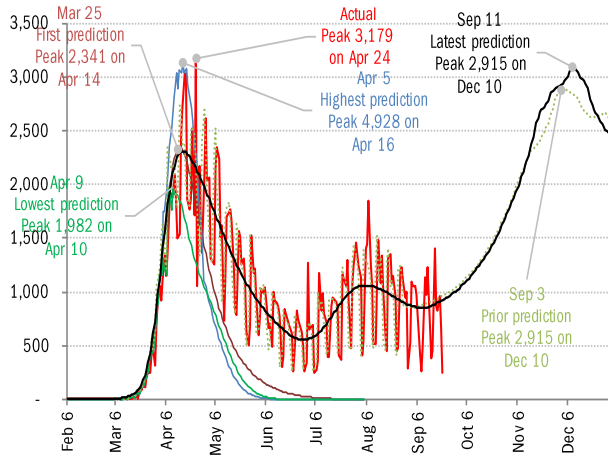
Source: [Covid Tracking Project](#), TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

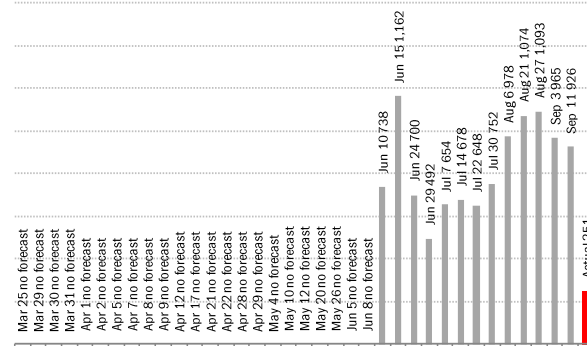
New daily fatalities

As of Sep 21

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

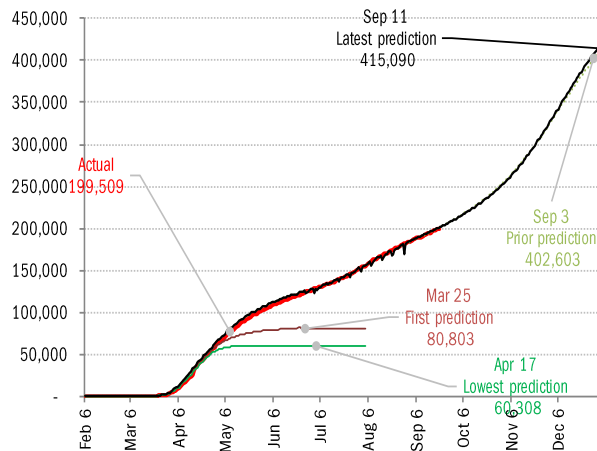


For this day, versus all model mean predictions

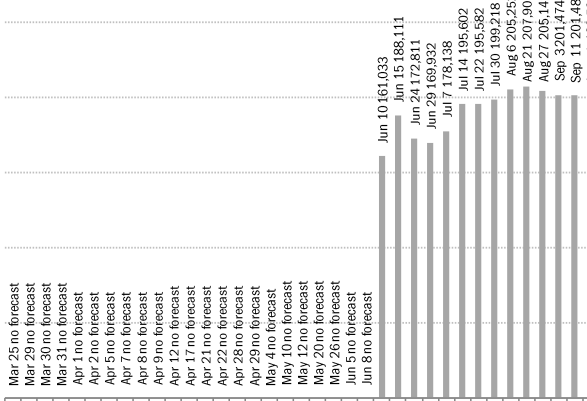


Cumulative fatalities

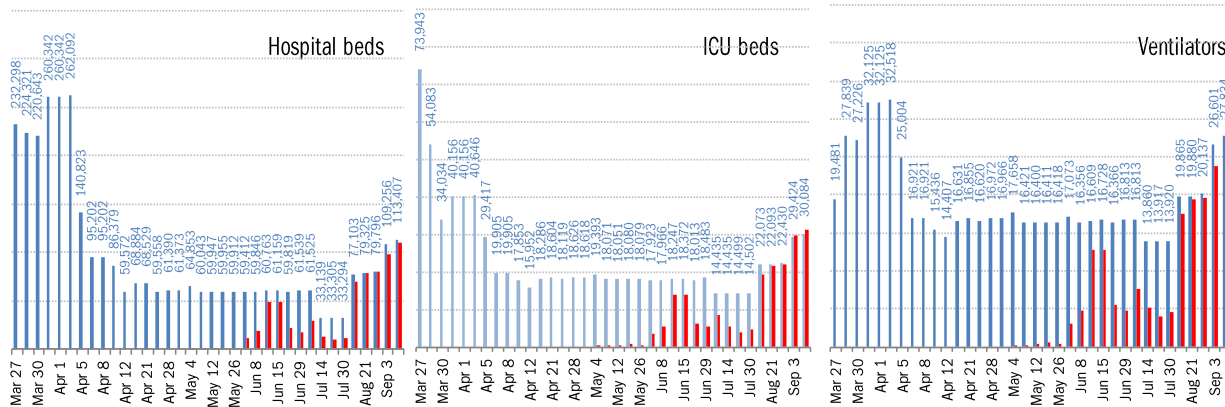
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

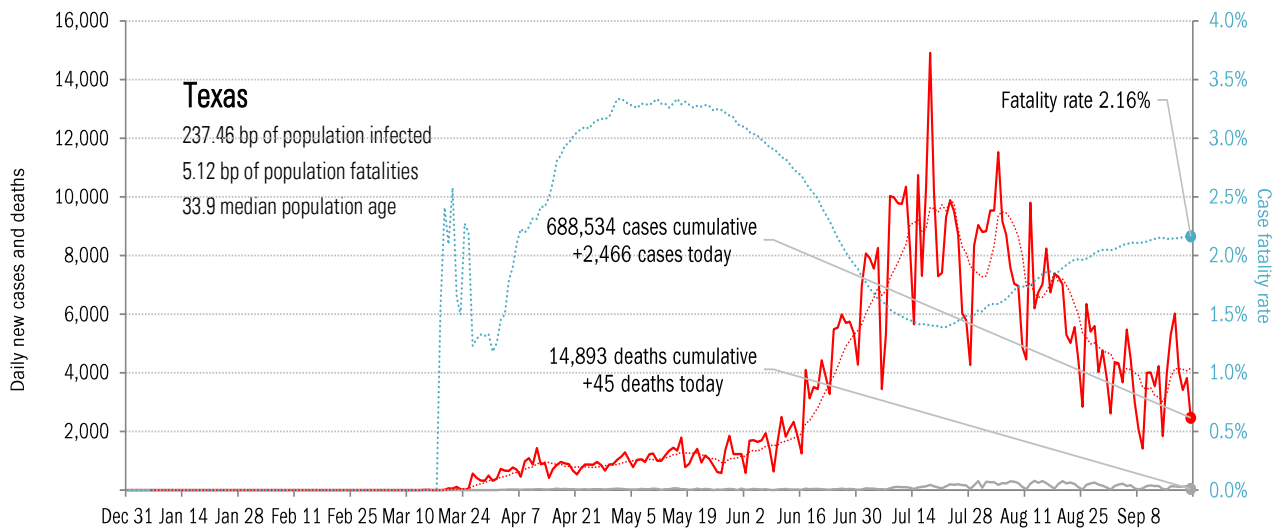
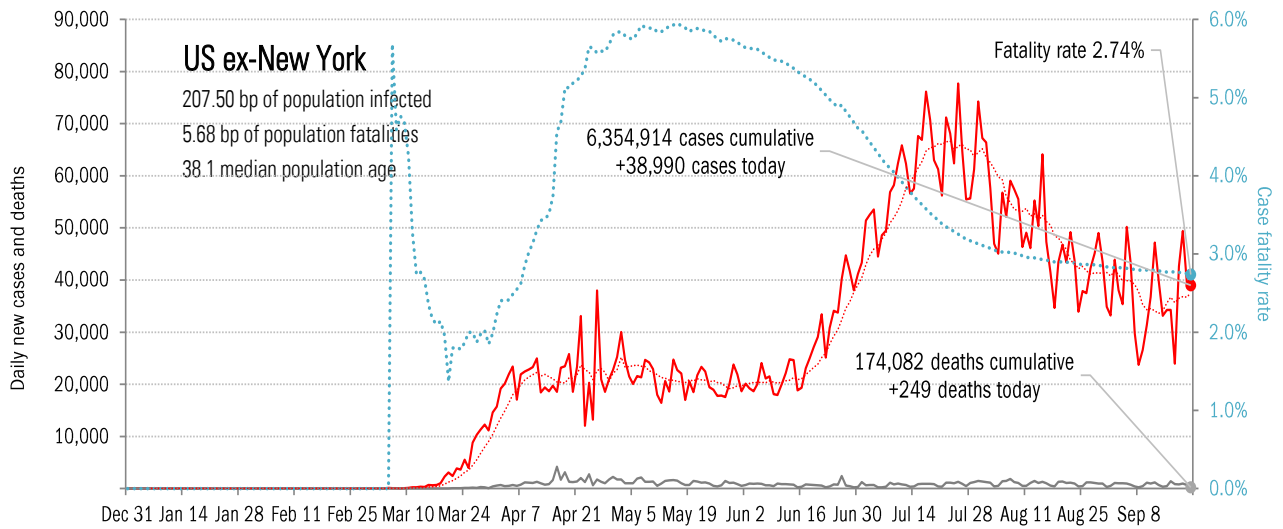
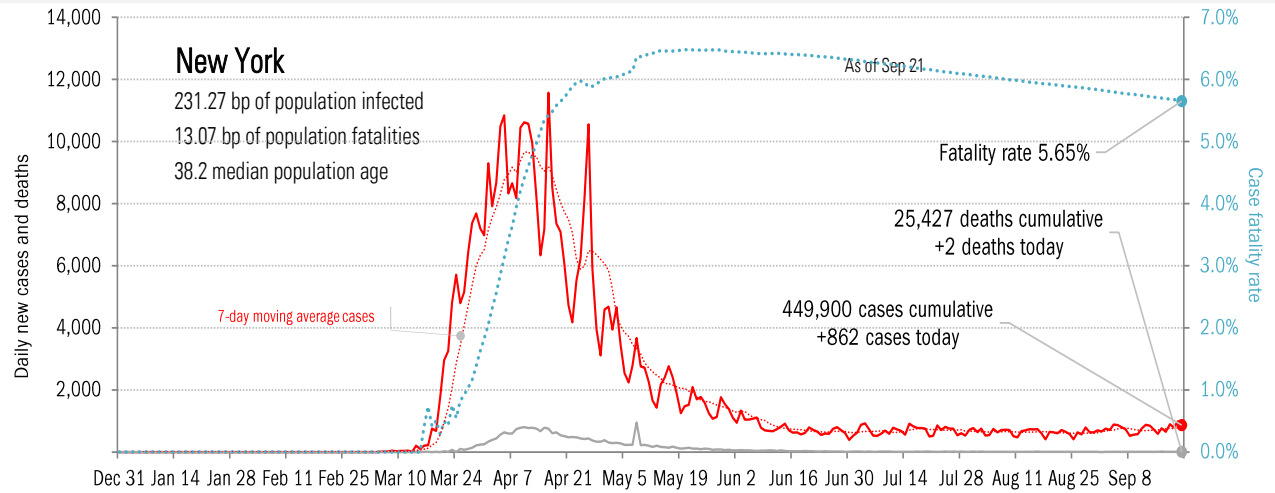


Healthcare system stress, peak and ultimate estimated at each model revision



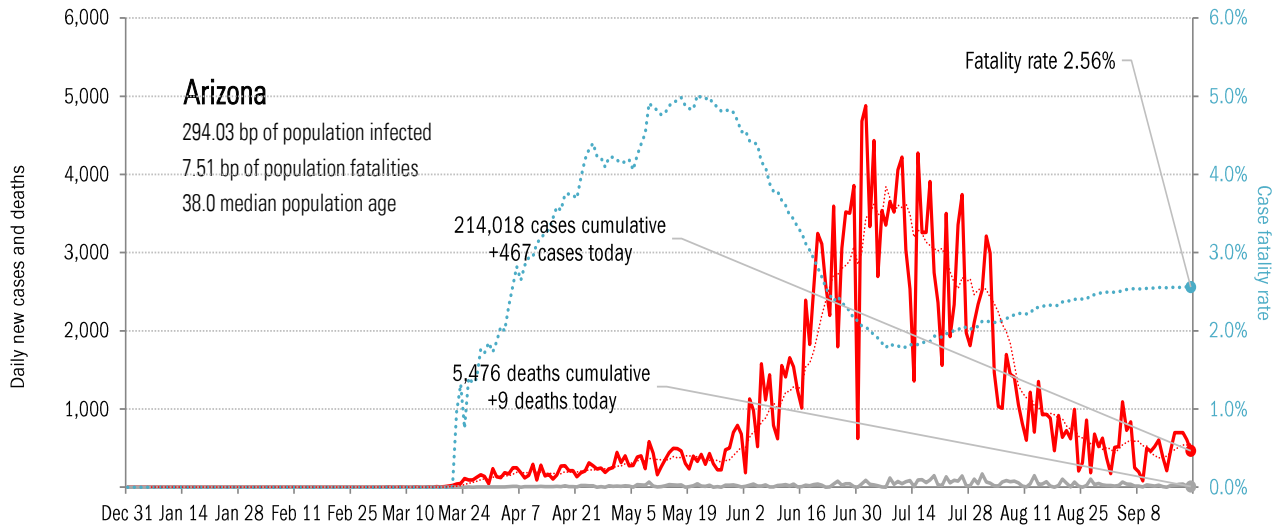
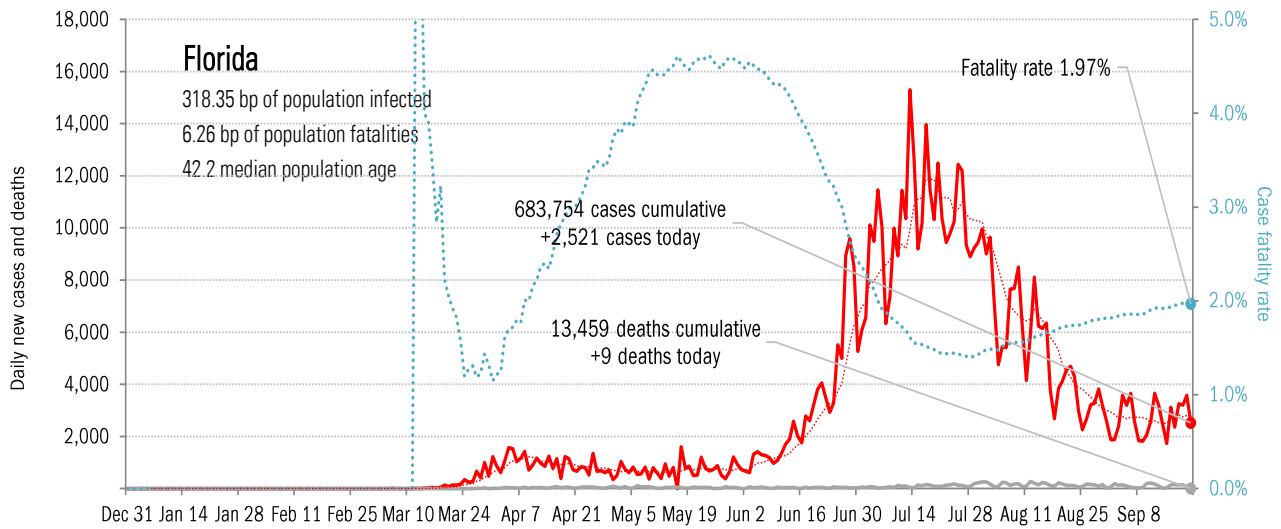
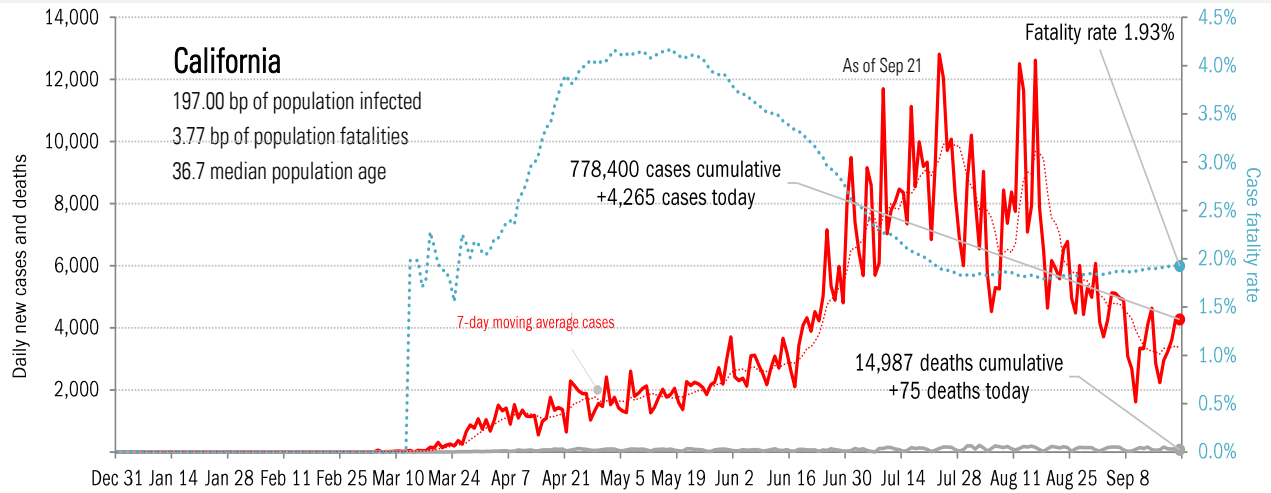
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



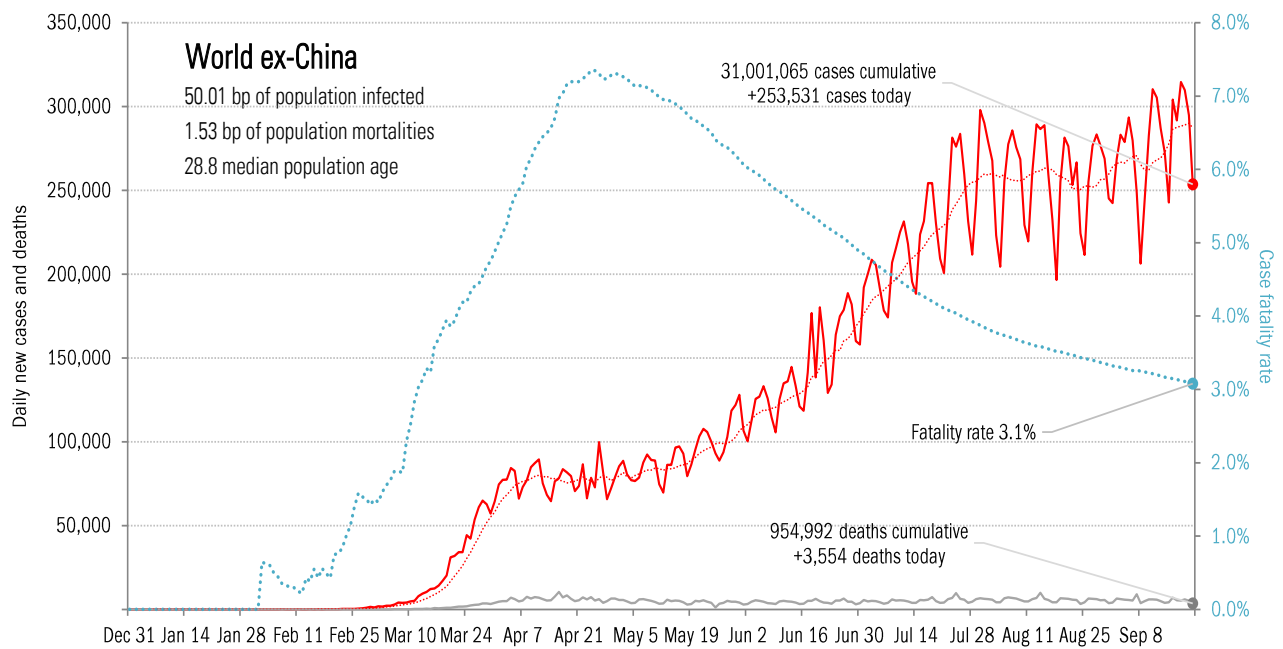
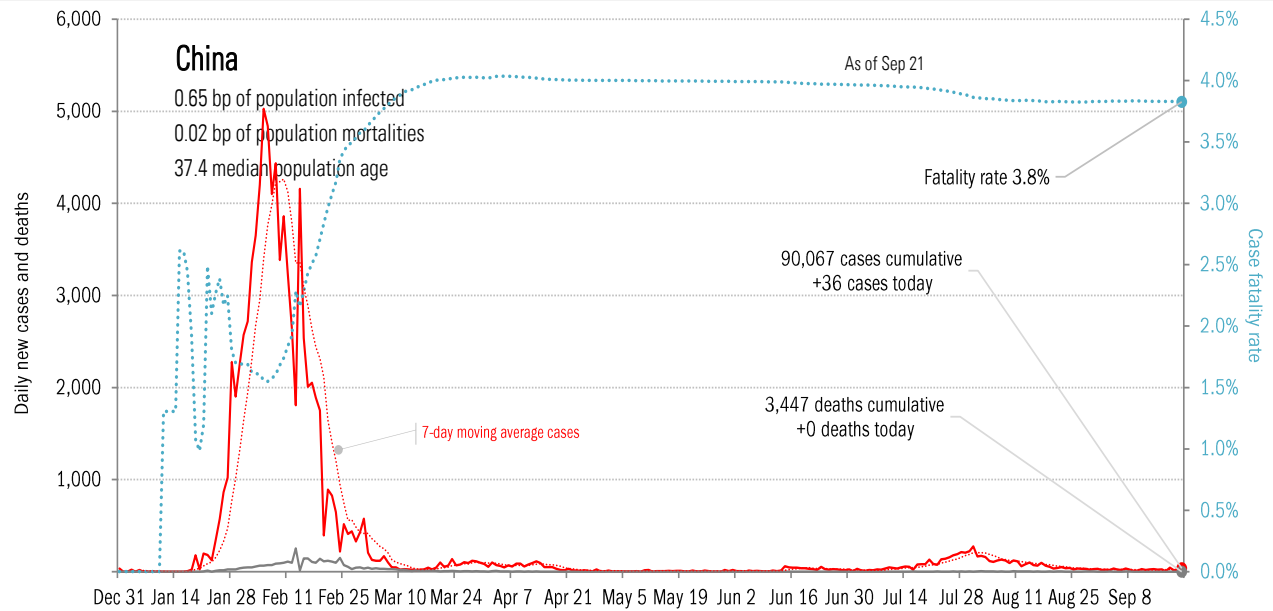
Source: [ECDC](#), TrendMacro calculations

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



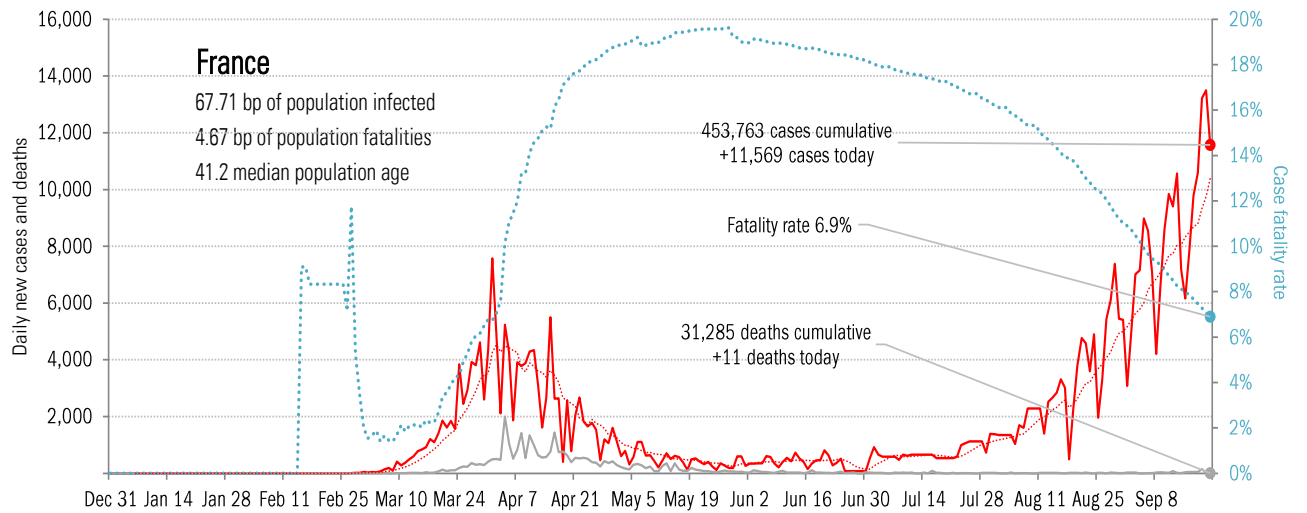
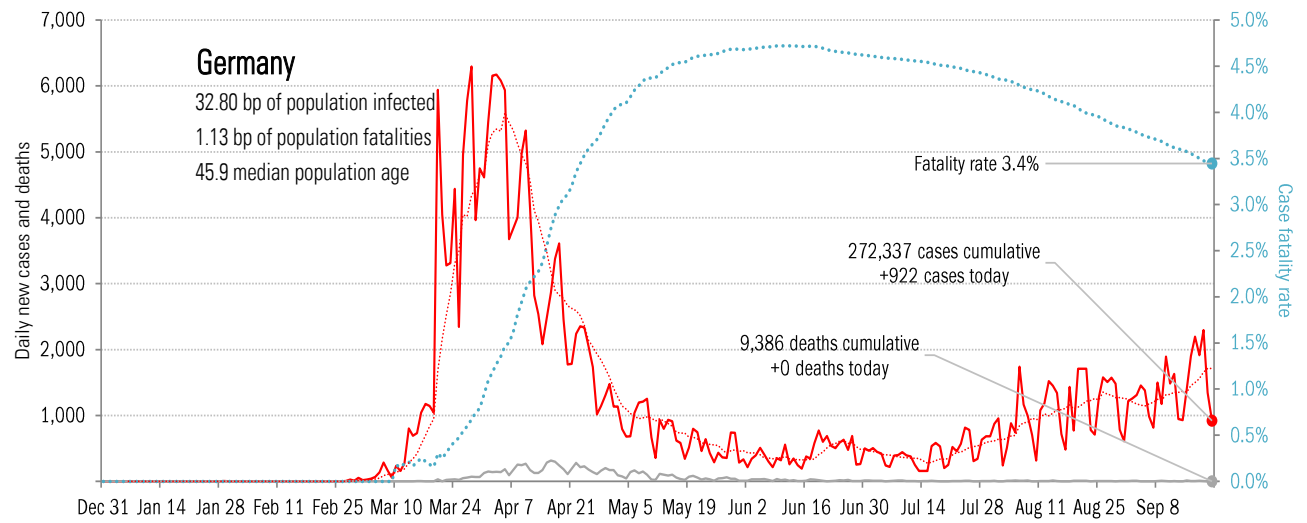
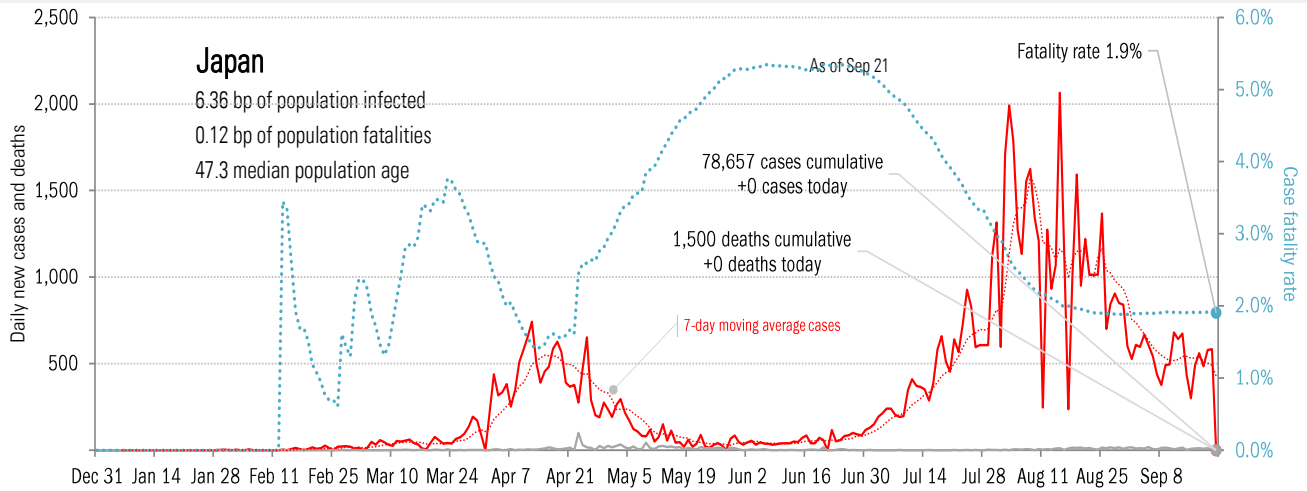
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



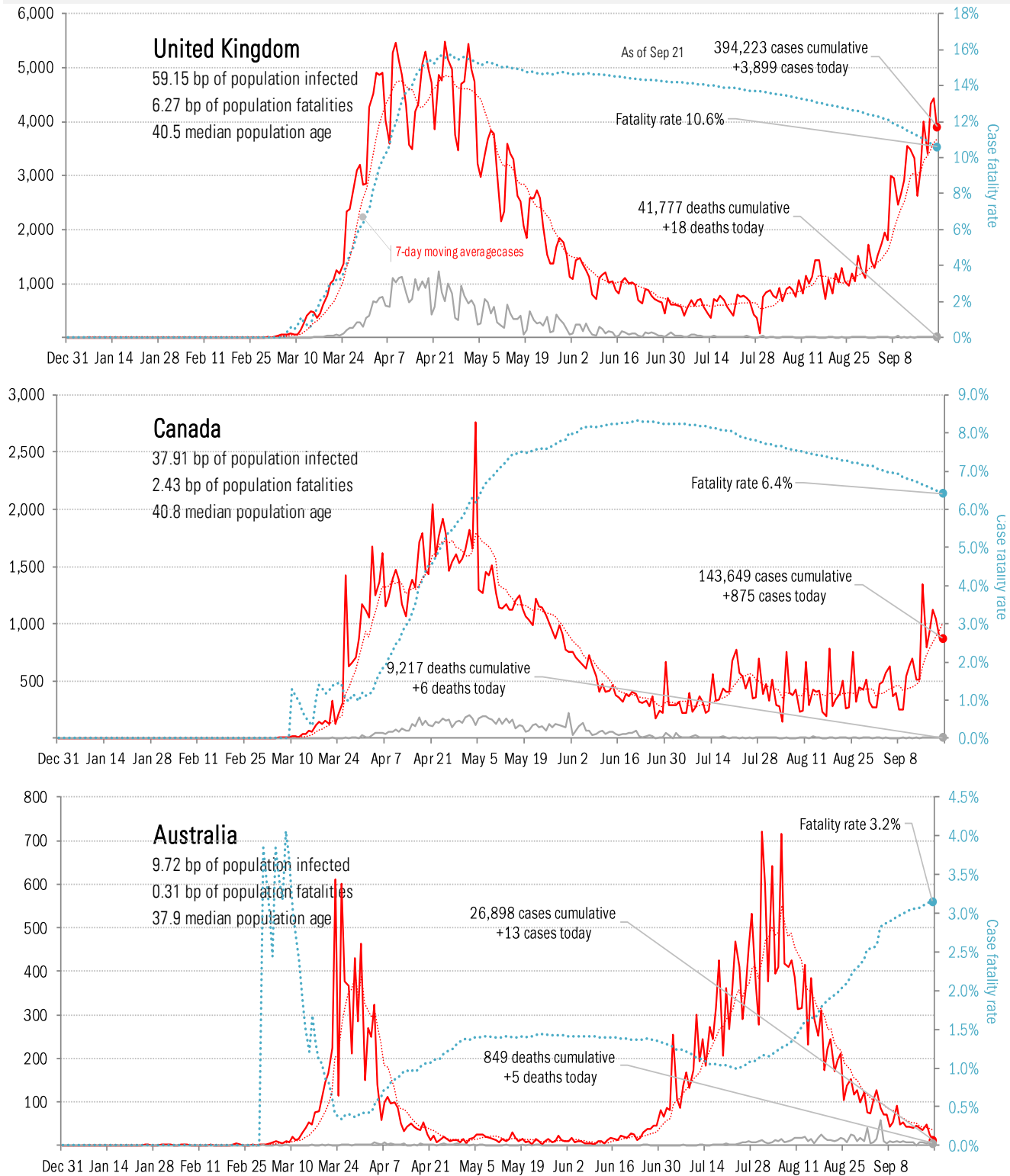
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



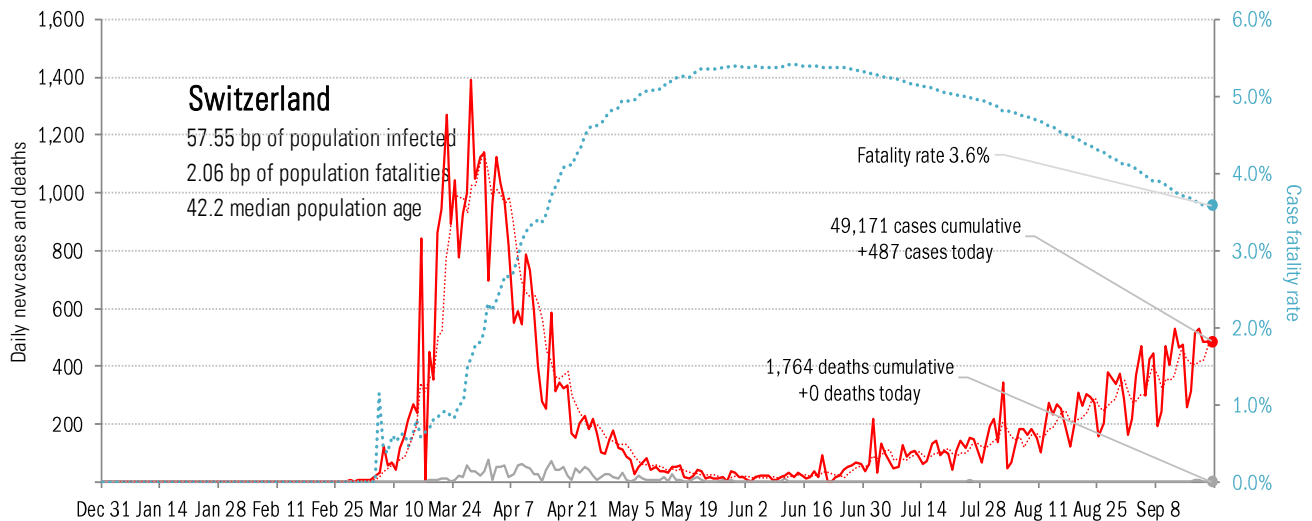
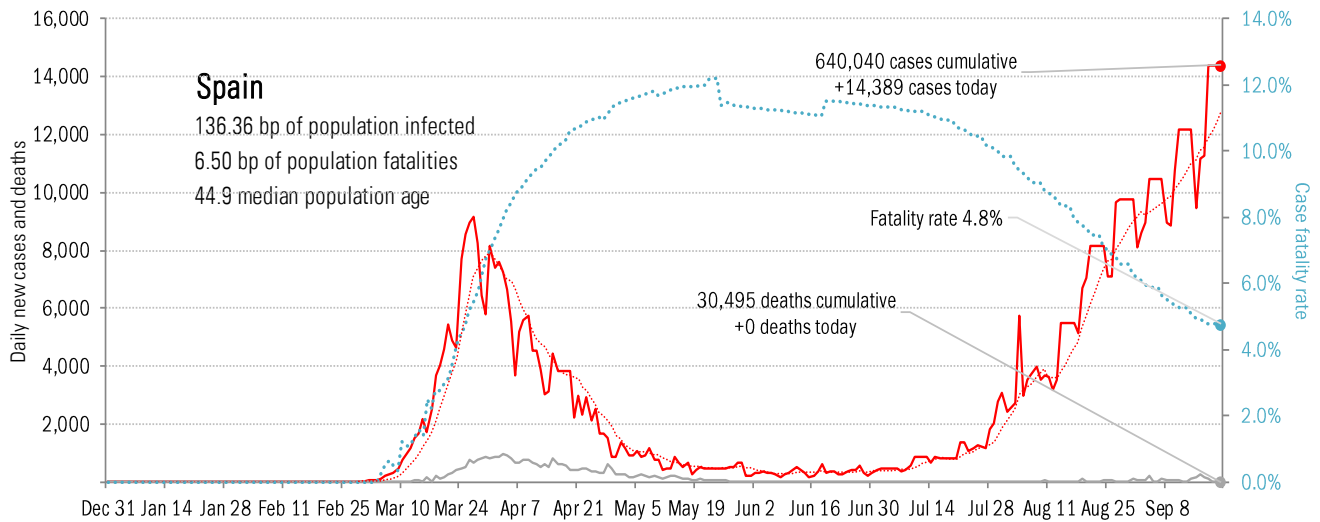
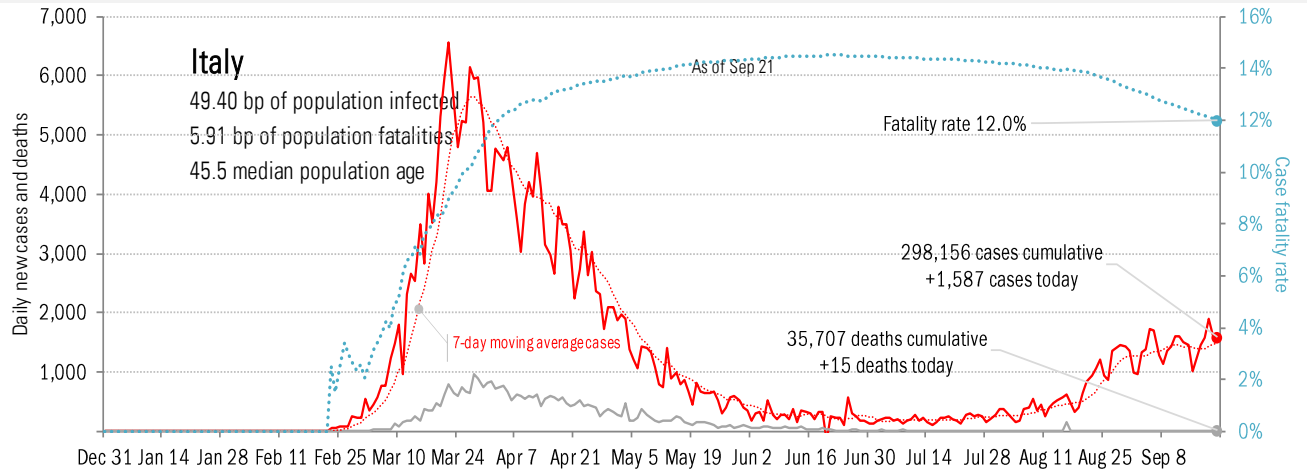
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



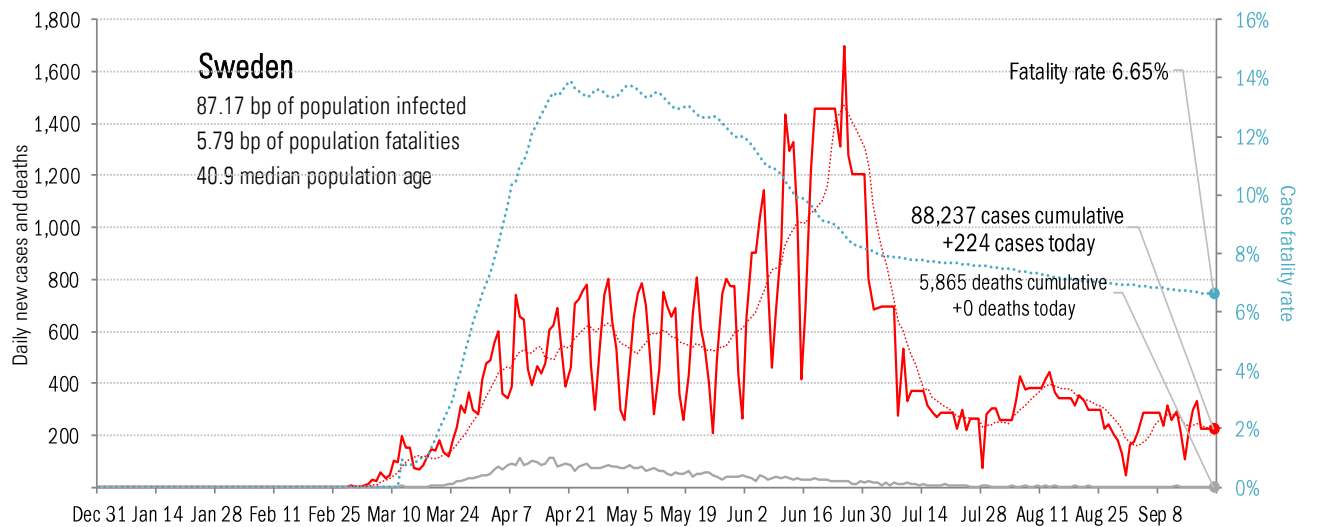
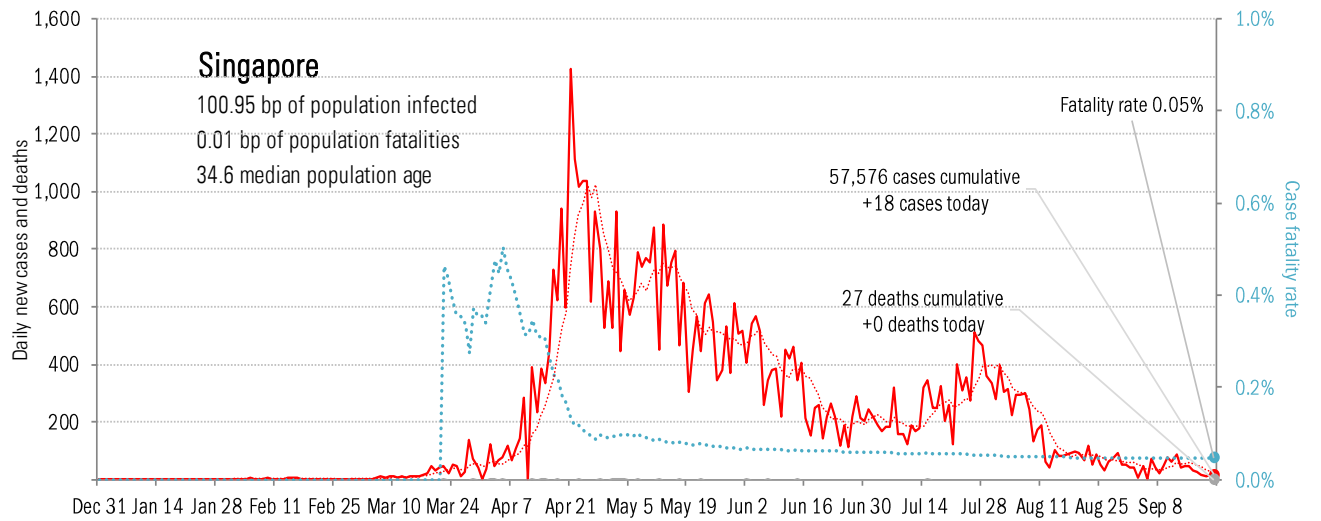
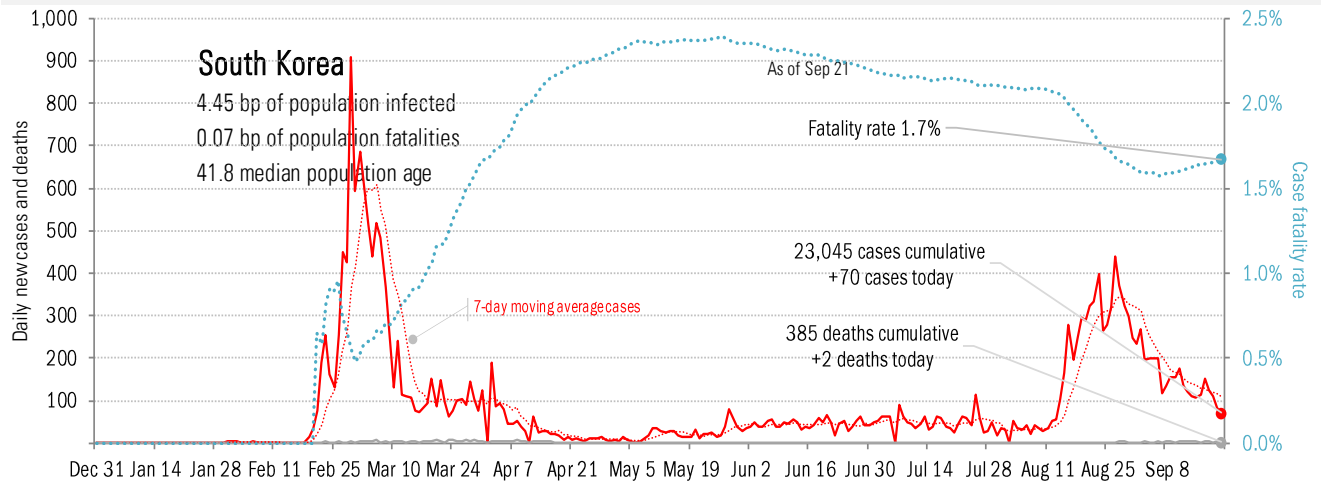
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



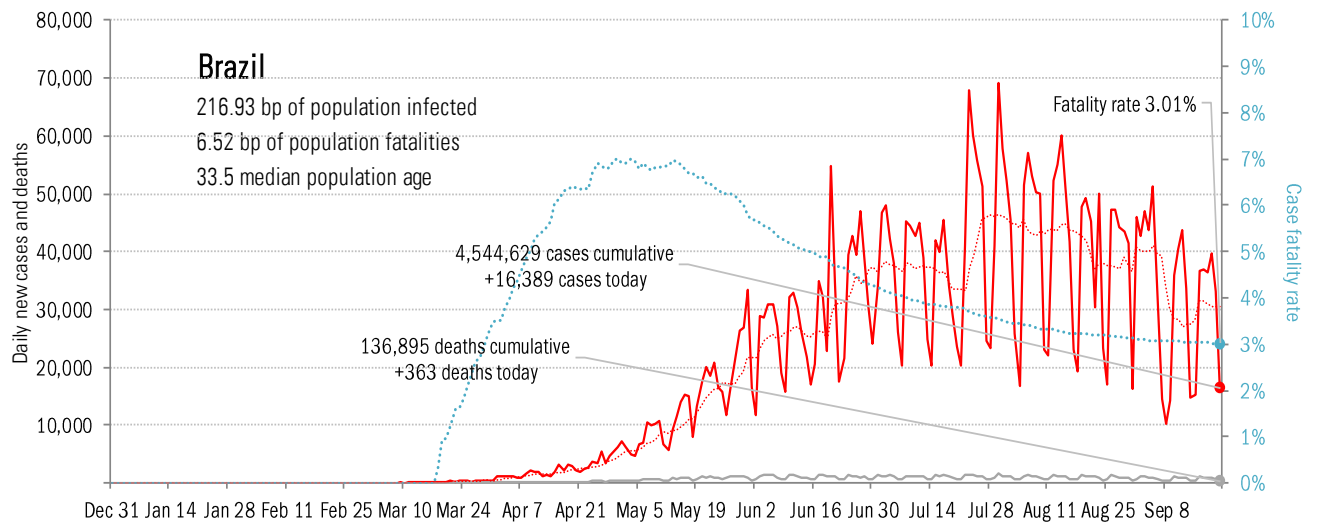
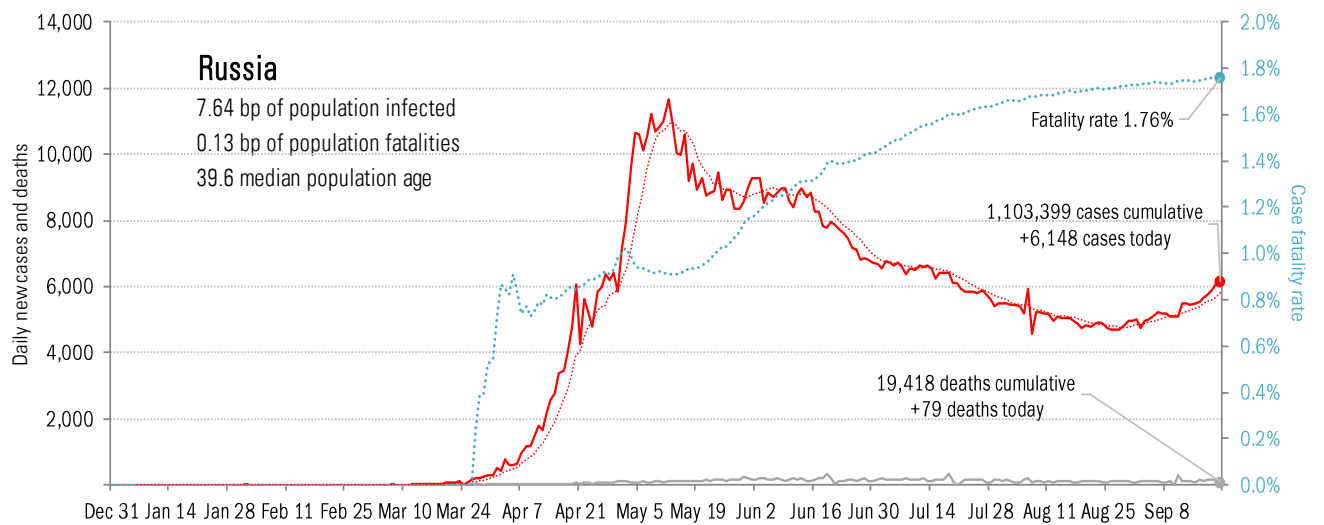
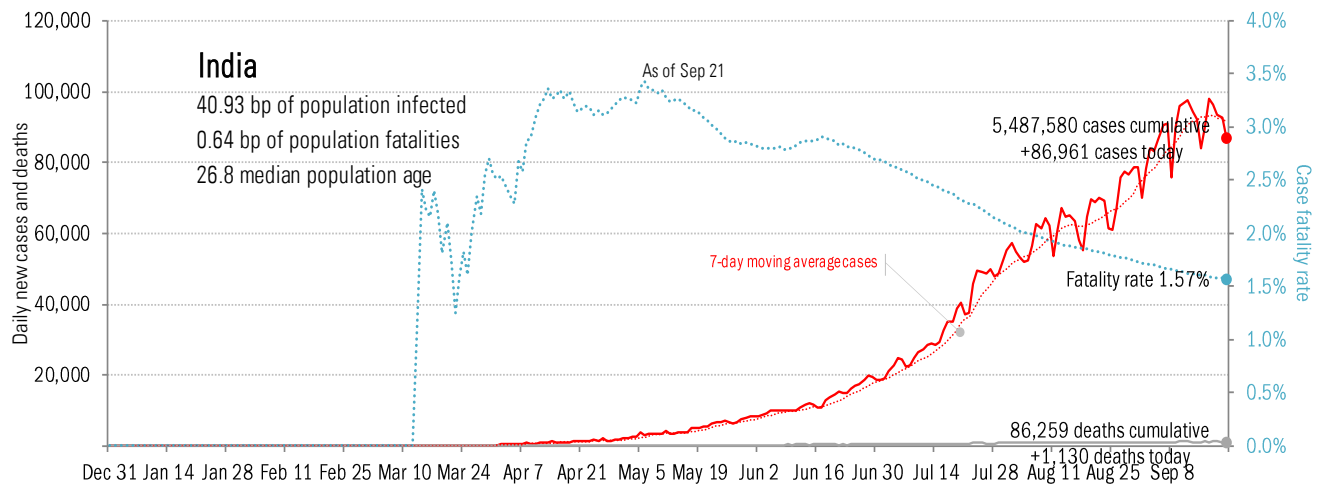
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



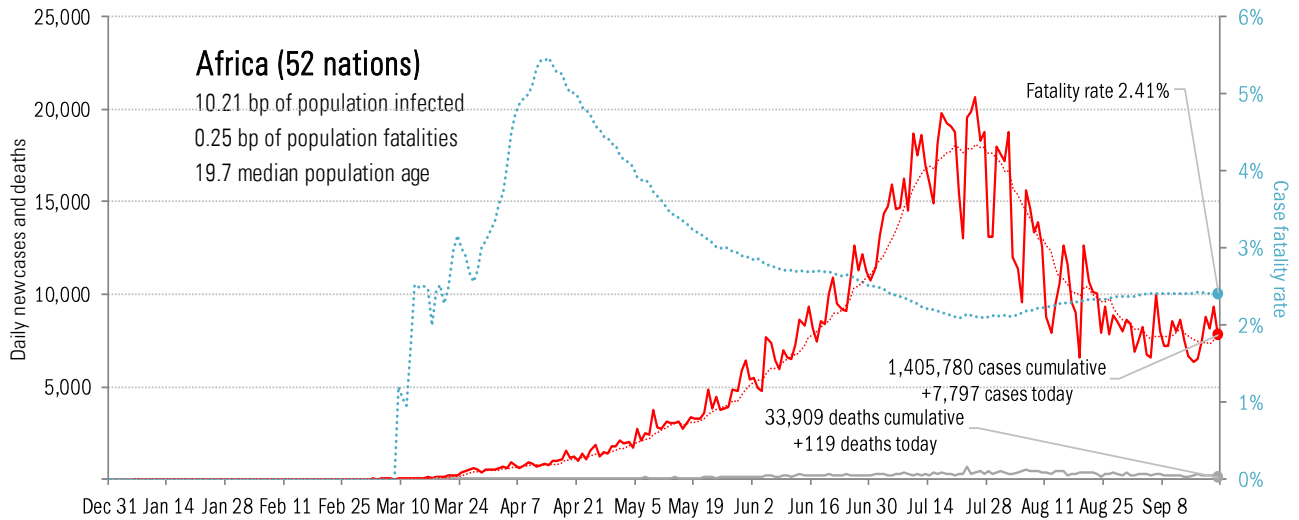
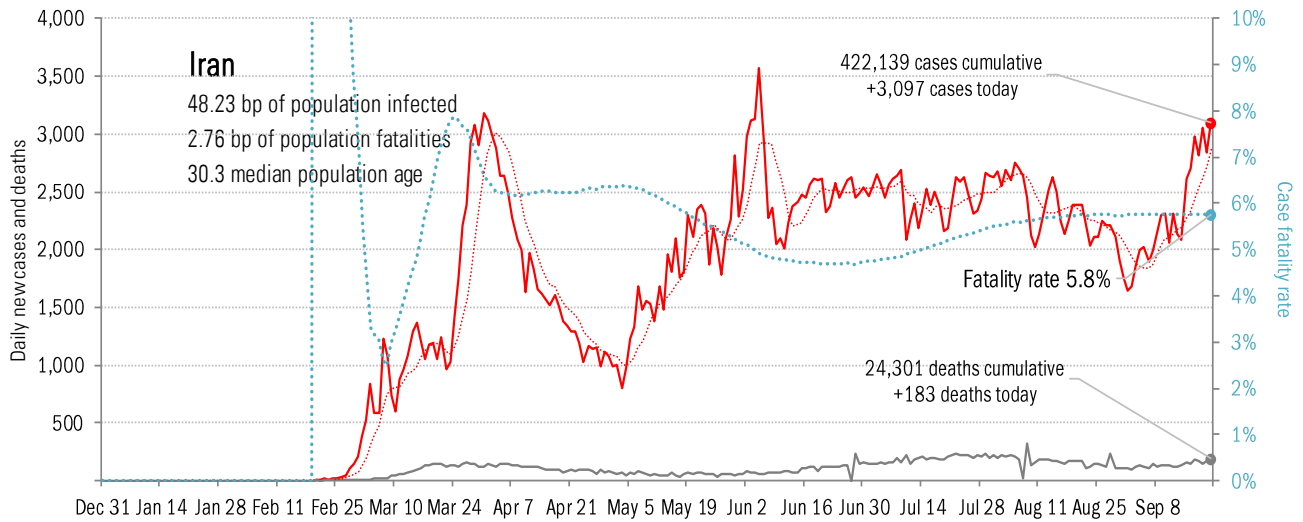
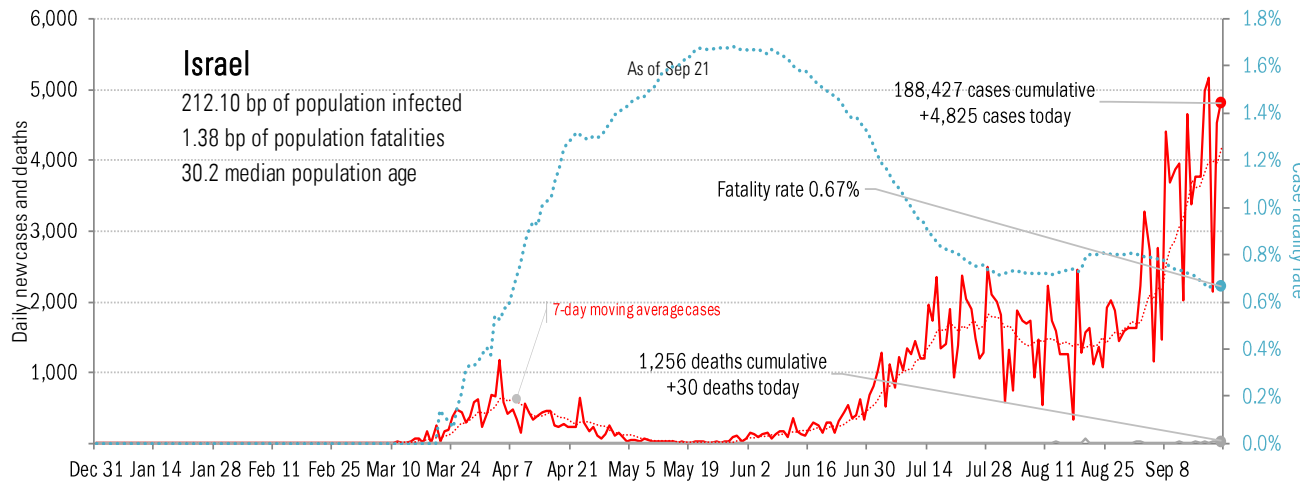
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations