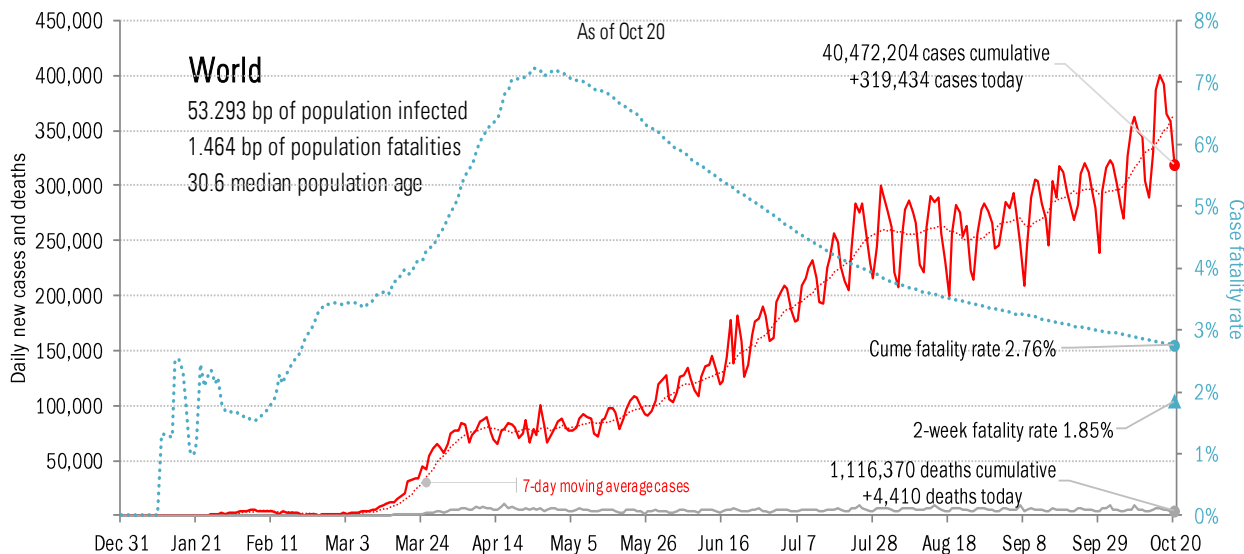
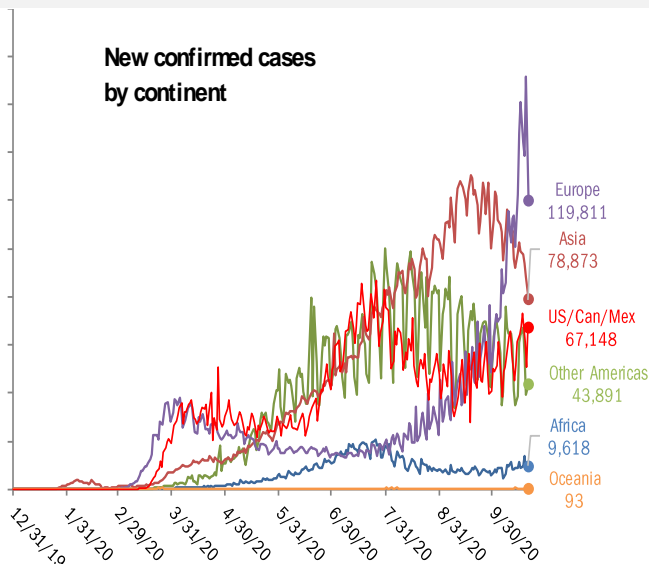


Data Insights: Covid-2019 Monitor

Tuesday, October 20, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
US	+60,160	India	+587
India	+46,790	US	+459
UK	+18,803	Argentina	+449
Russia	+15,982	Iran	+337
Brazil	+15,383	Brazil	+271
Spain	+15,186	Russia	+179
France	+13,243	Mexico	+171
Argentina	+12,982	France	+146
Italy	+9,337	Colombia	+132
Switzerland	+8,737	Ukraine	+113
+216,603		+2,844	
World +319,434		World +4,410	
Top ten 68%		Top ten 64%	



Source: [ECDC](#), TrendMacro calculations

For more information contact us:

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 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

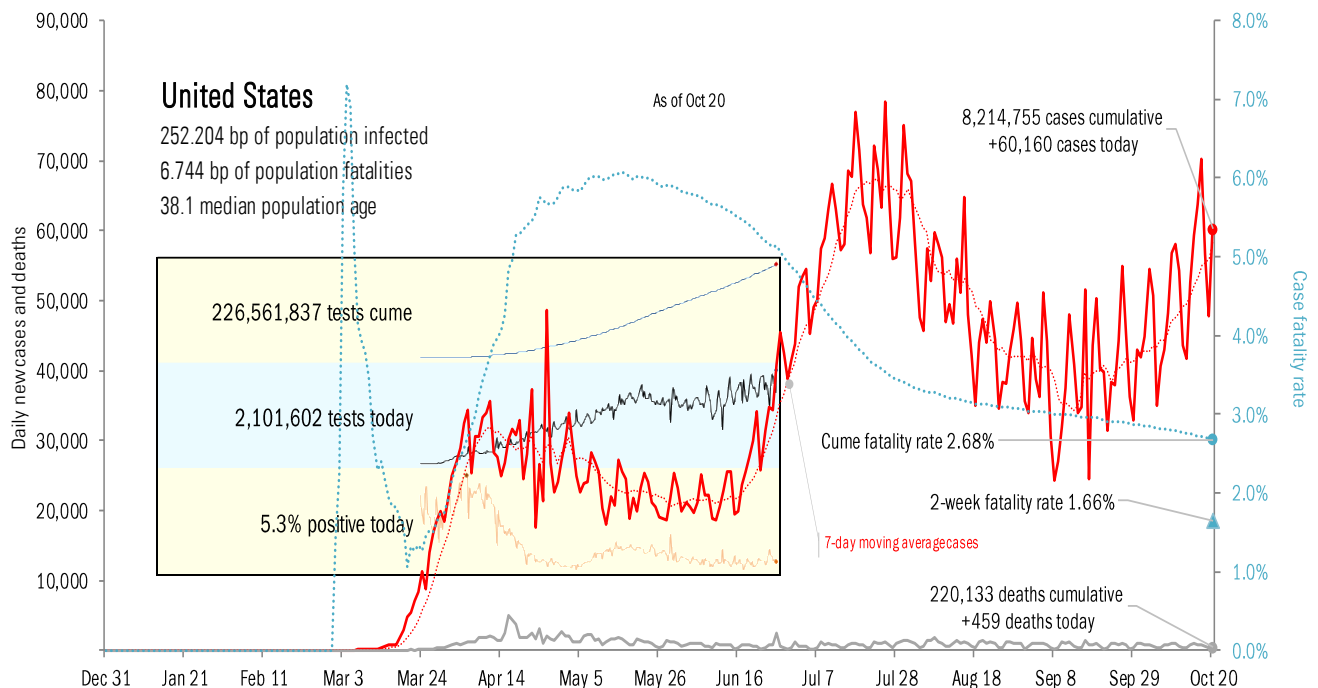
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
WI	+7,915	FL	+54	MO	+521	CA	870,791	NY	25,659	NY	89,995
MI	+5,004	MI	+46	TN	+233	TX	825,673	TX	17,022	FL	47,664
CA	+3,474	WI	+29	TX	+93	FL	756,727	CA	16,970	GA	30,388
TN	+3,317	CA	+27	IL	+84	NY	485,279	FL	16,222	NJ	24,273
IL	+3,113	VA	+24	KY	+73	IL	350,748	NJ	16,214	AZ	20,648
KS	+2,113	IN	+23	OH	+57	GA	341,310	MA	9,753	VA	20,068
TX	+1,894	IL	+22	FL	+52	NC	247,172	IL	9,496	AL	19,081
CH	+1,837	GA	+19	MI	+50	TN	232,061	PA	8,500	CH	17,172
FL	+1,707	LA	+16	MN	+48	AZ	231,897	GA	7,657	MD	16,475
MN	+1,627	MA	+16	MS	+44	NJ	221,205	MI	7,363	IN	14,826
+32,001		+276		+1,255		4,562,863		134,856		300,590	
All states	+57,148	All states	+456	All states	+1,329	All states	8,171,703	All states	211,846	All states	436,817
Top ten	56%	Top ten	61%	Top ten	94%	Top ten	56%	Top ten	64%	Top ten	69%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TX	-1,322	TX	-22	KS	-171	KS	+10
WA	-1,307	PA	-18	CA	-43	AR	+7
NC	-1,159	CA	-17	IN	-43	AL	+3
IL	-1,132	GA	-12	GA	-22	AK	+0
LA	-942	MN	-12	OR	-22	AS	+0



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

Recommended reading

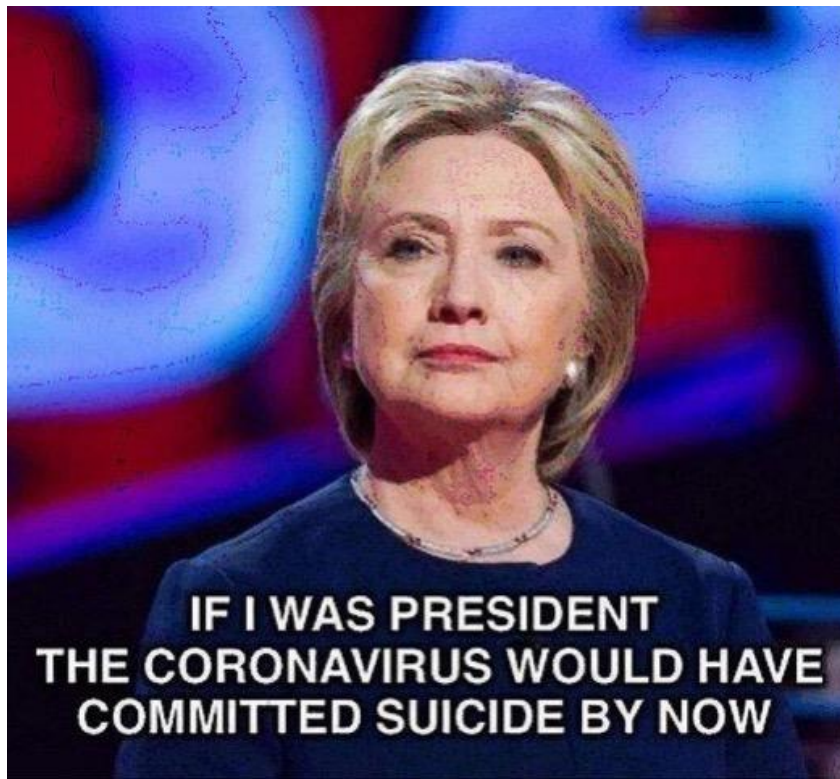
[Pfizer Targeting Late November for Covid Vaccine Application](#)

Naomi Kresge, Robert Langreth, and Emma Court
Bloomberg
October 16, 2020

[Hospital capacity data contradicts 'bursting at seams' headline](#)

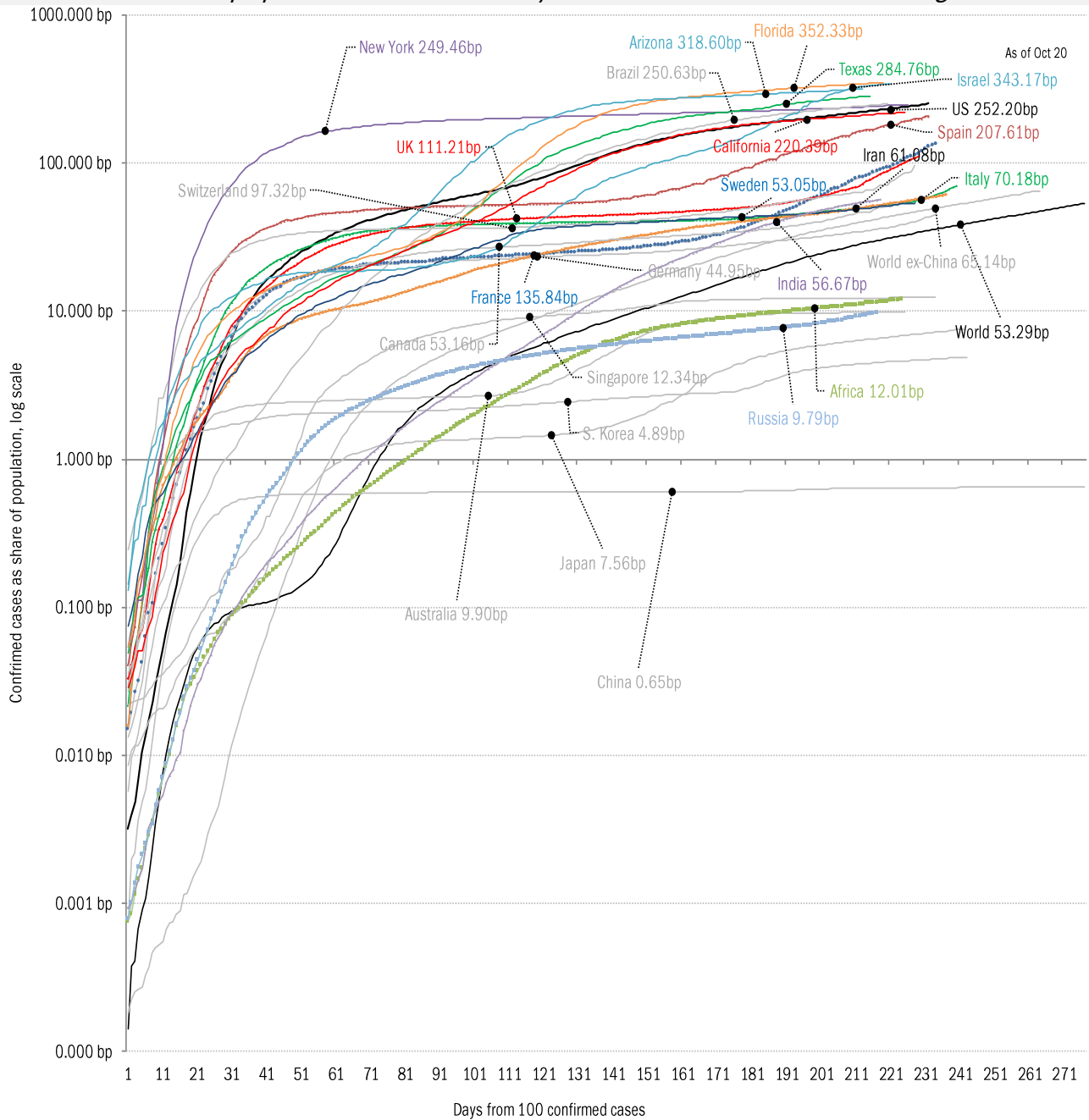
Dave Trabert
Kansas Policy Institute
October 17, 2020

Meme of day



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

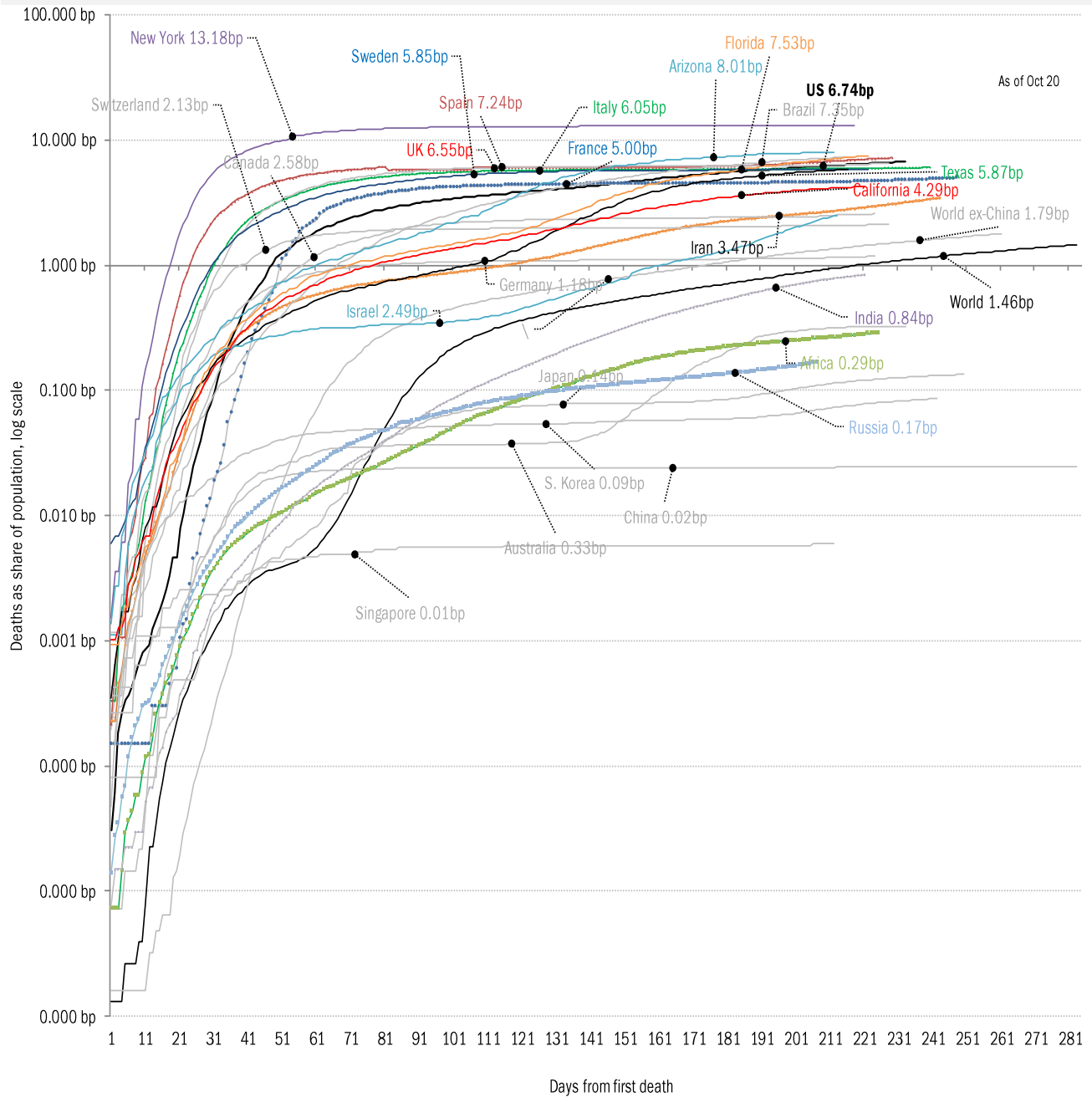
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

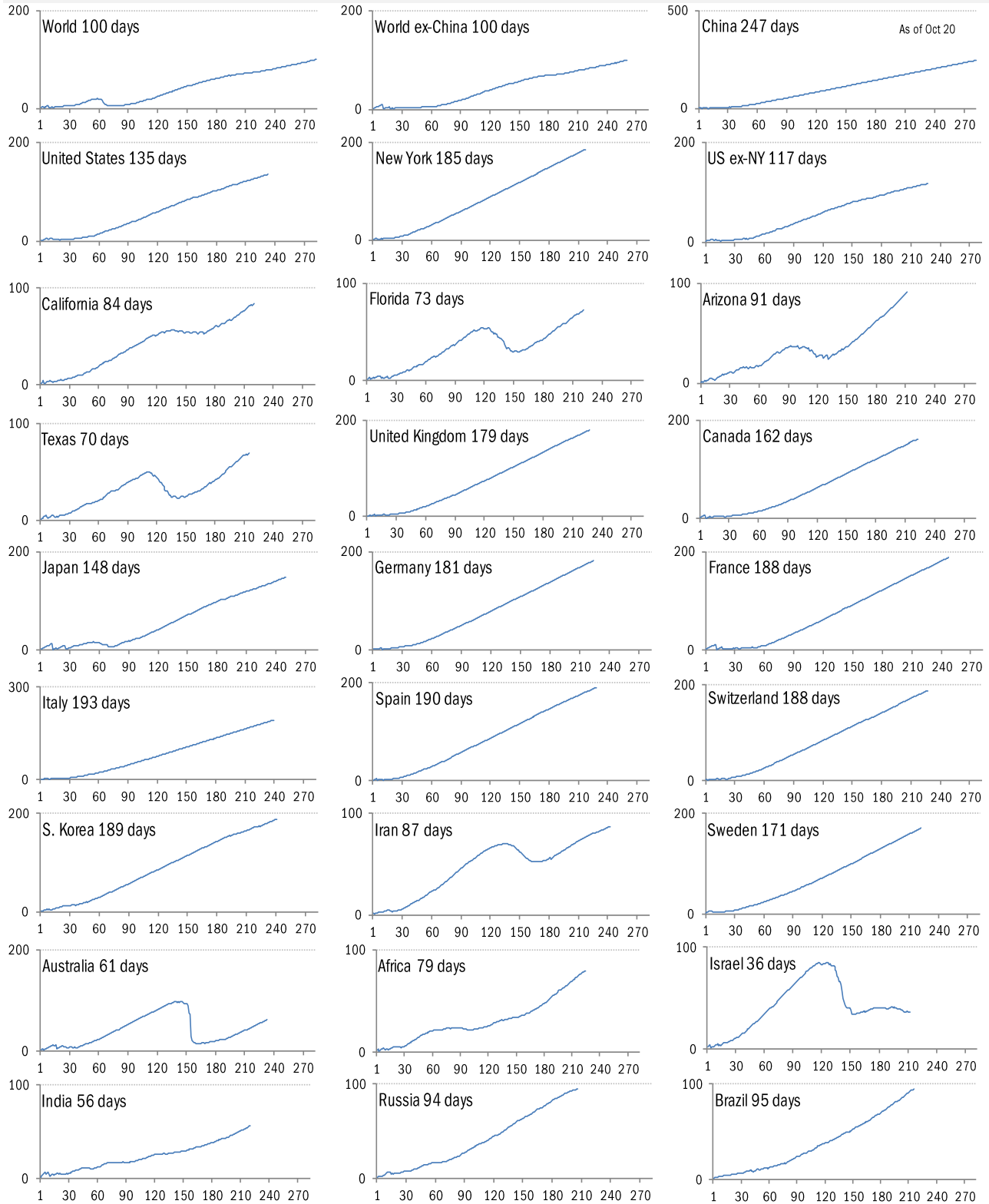


Source: [ECDC](#), TrendMacro calculations

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

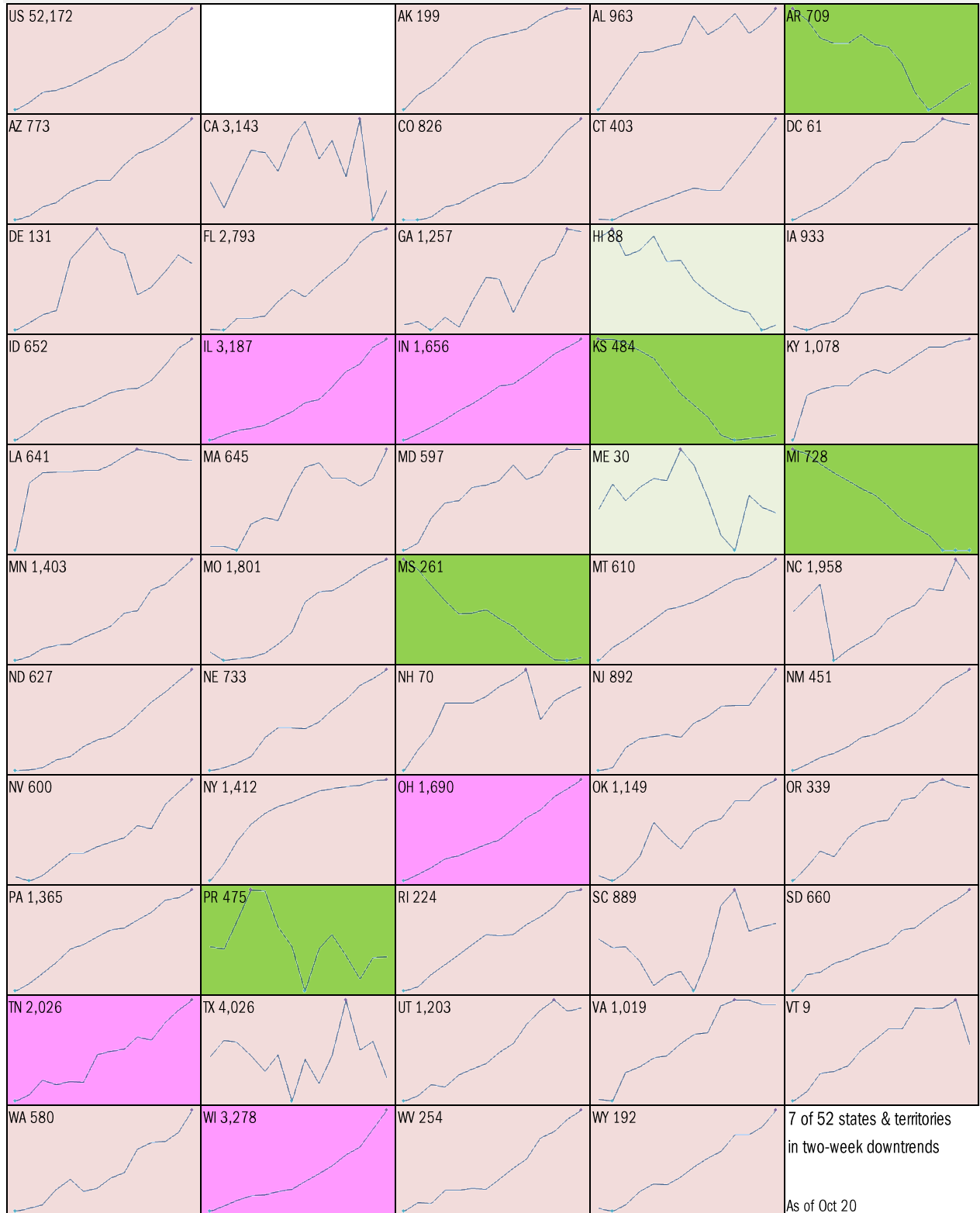
Vertical: days to double deaths Horizontal: days from first death

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



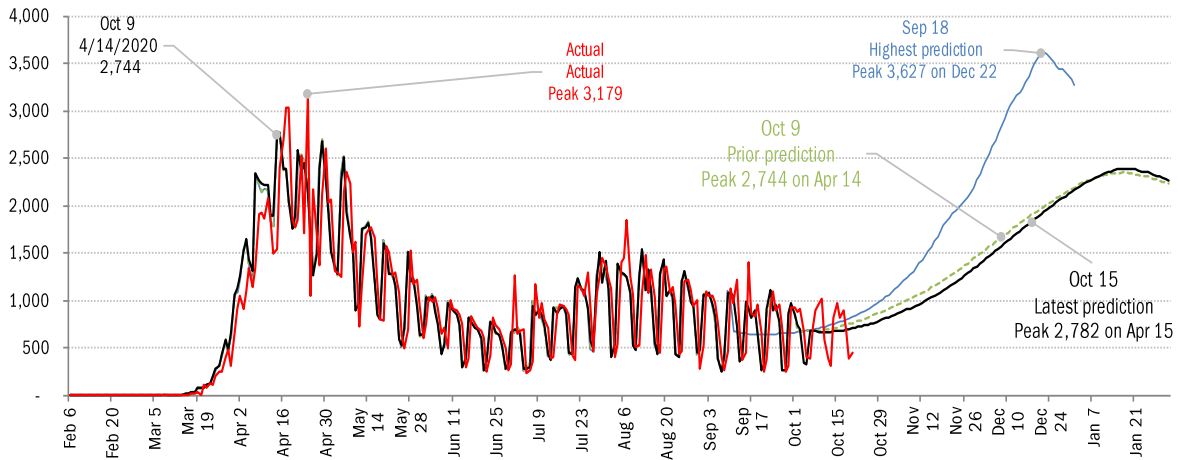
Source: [Covid Tracking Project](#), TrendMacro calculations

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

New daily fatalities

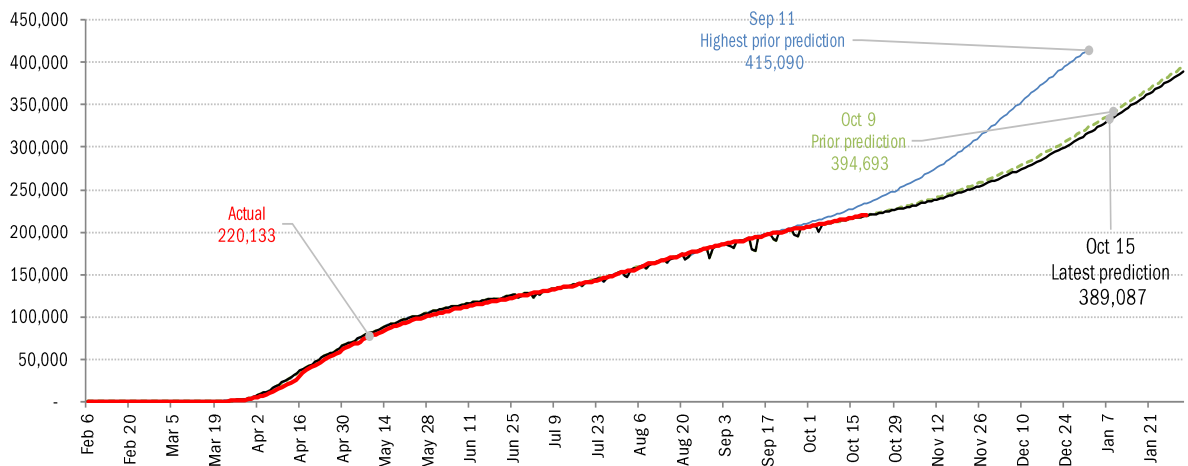
As of Oct 20

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

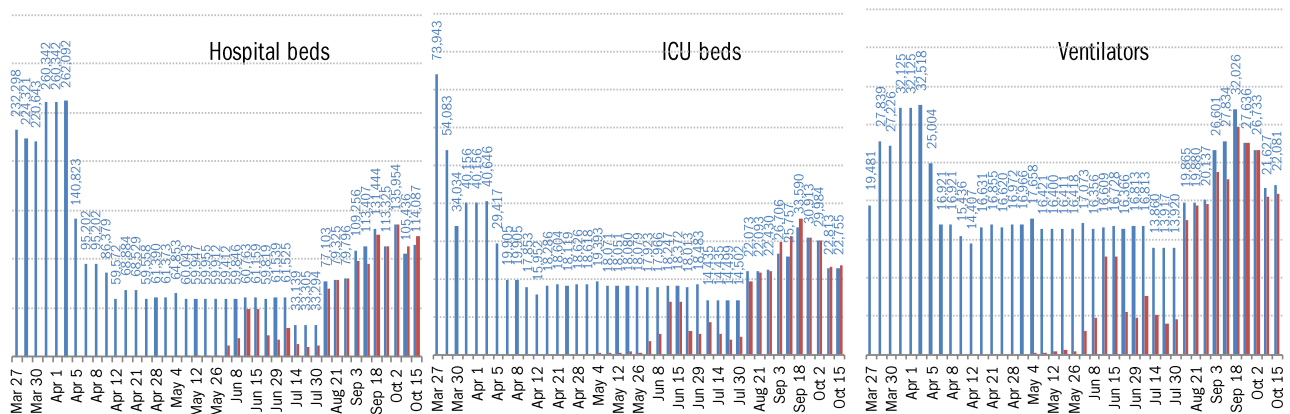


Cumulative fatalities

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

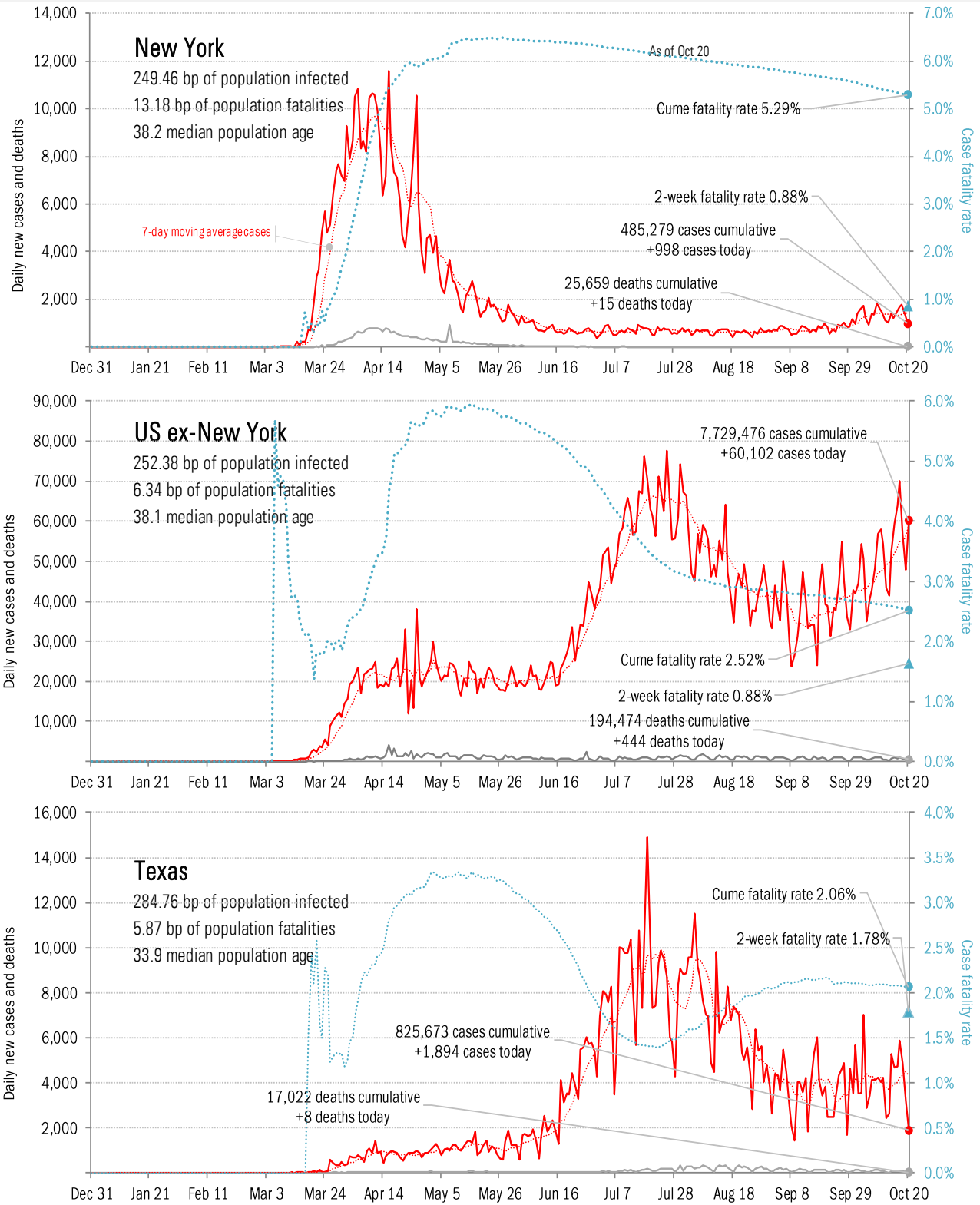


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



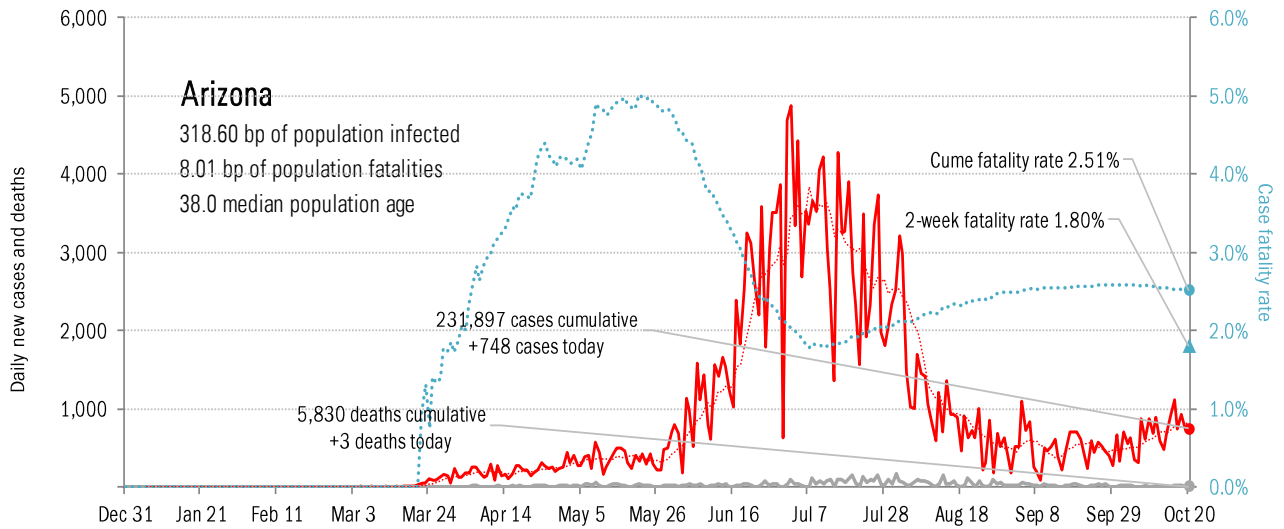
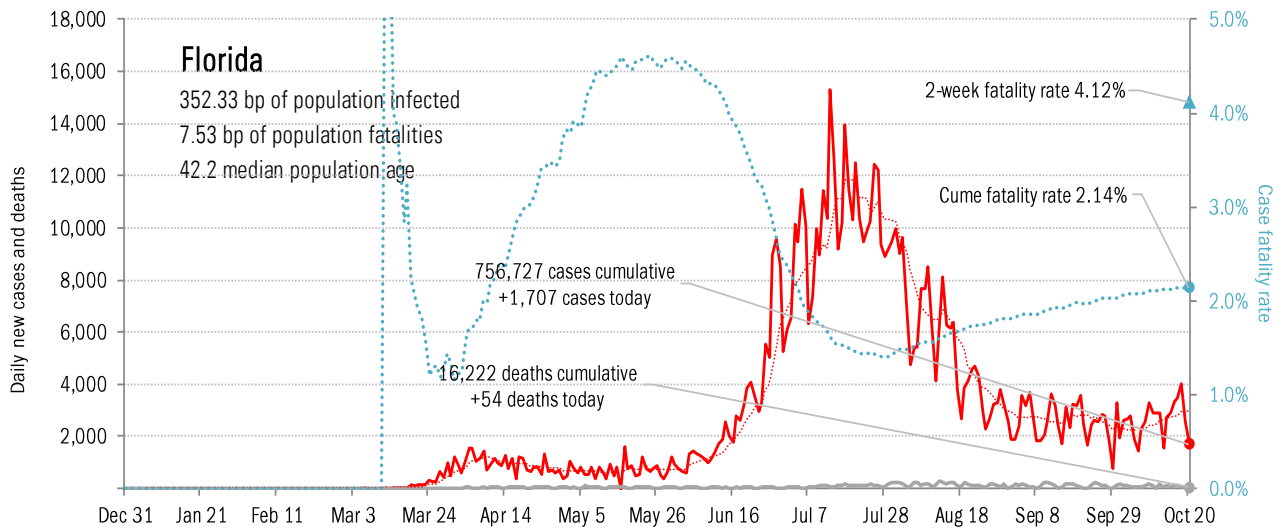
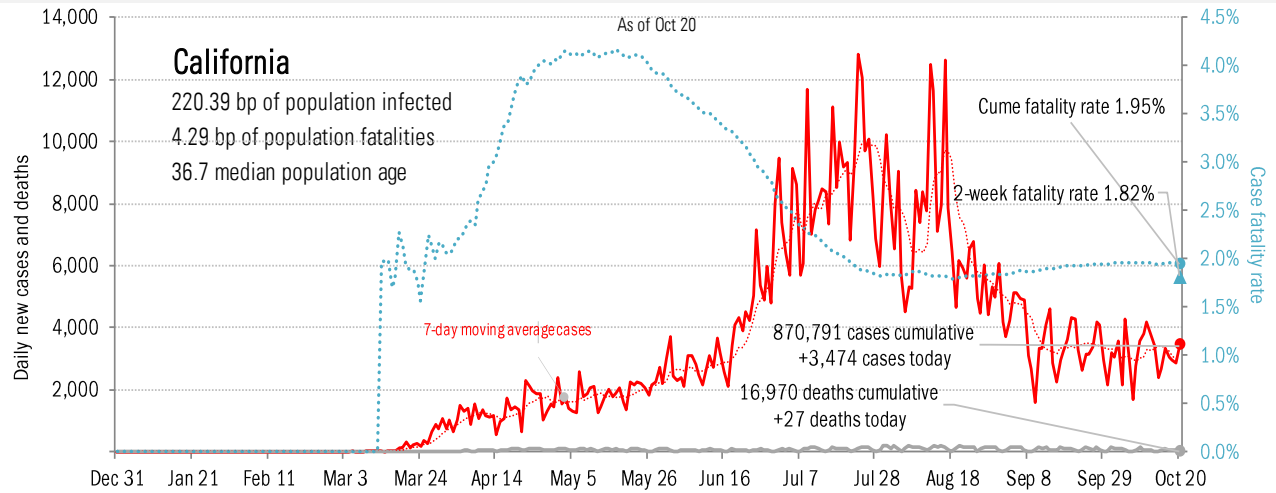
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



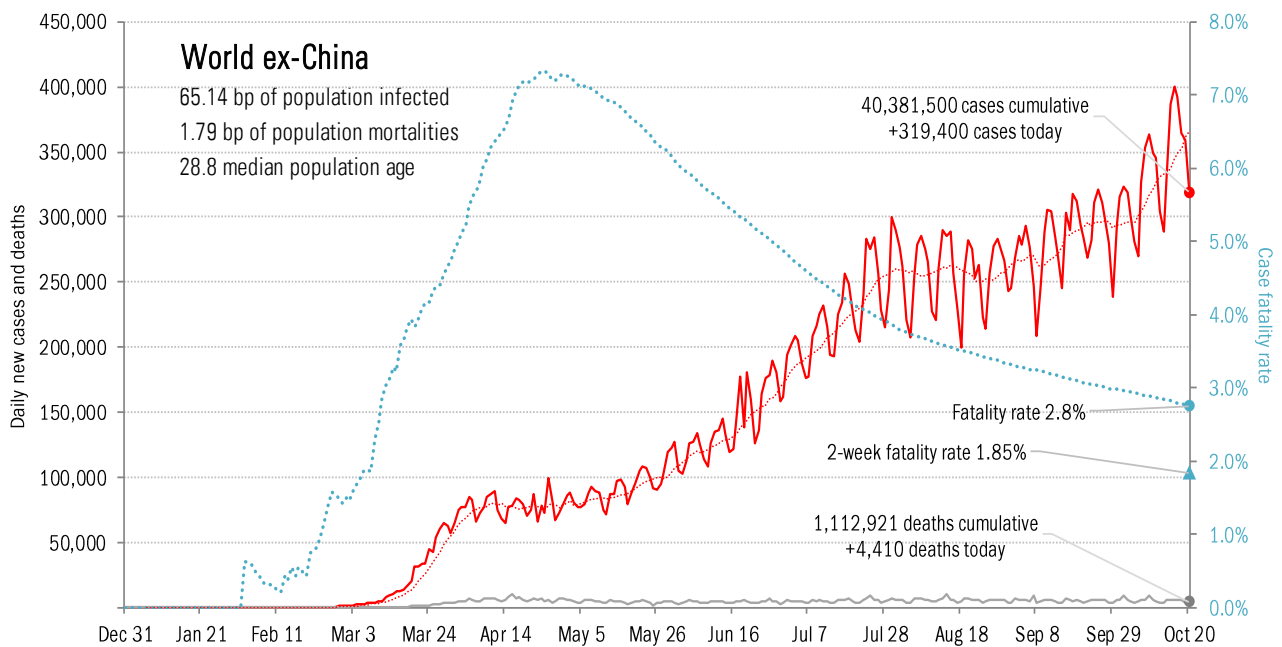
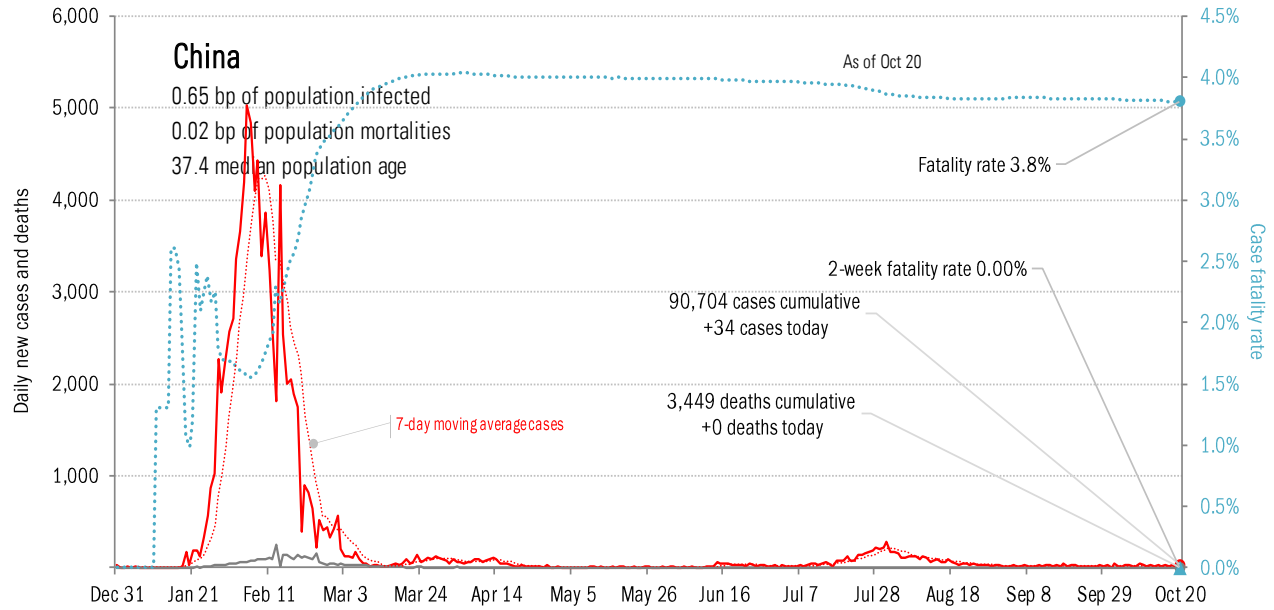
Source: [ECDC](#), TrendMacro calculations

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



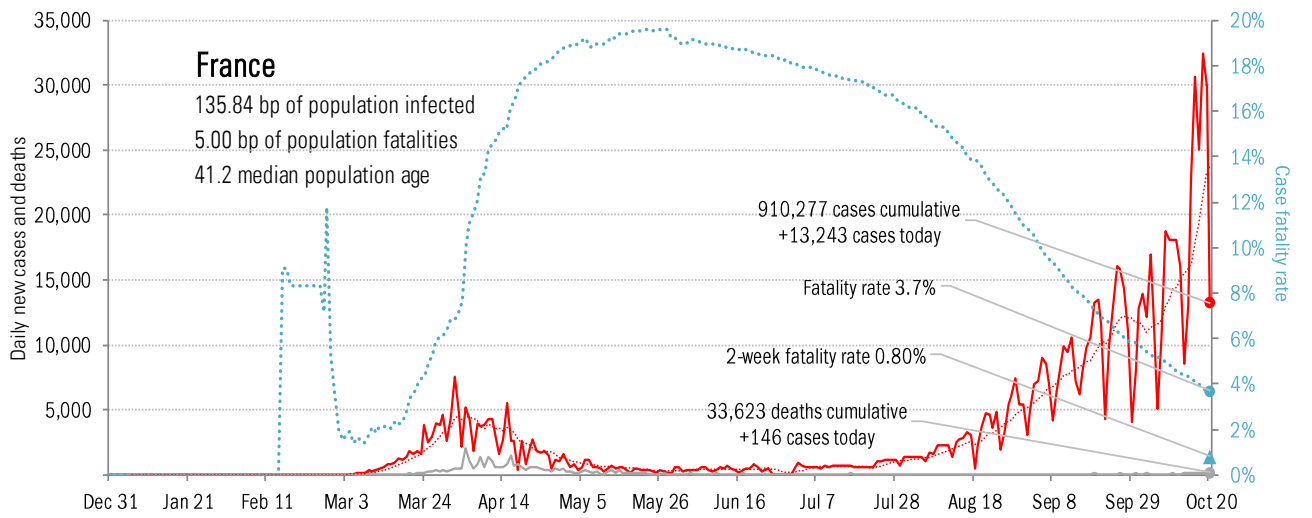
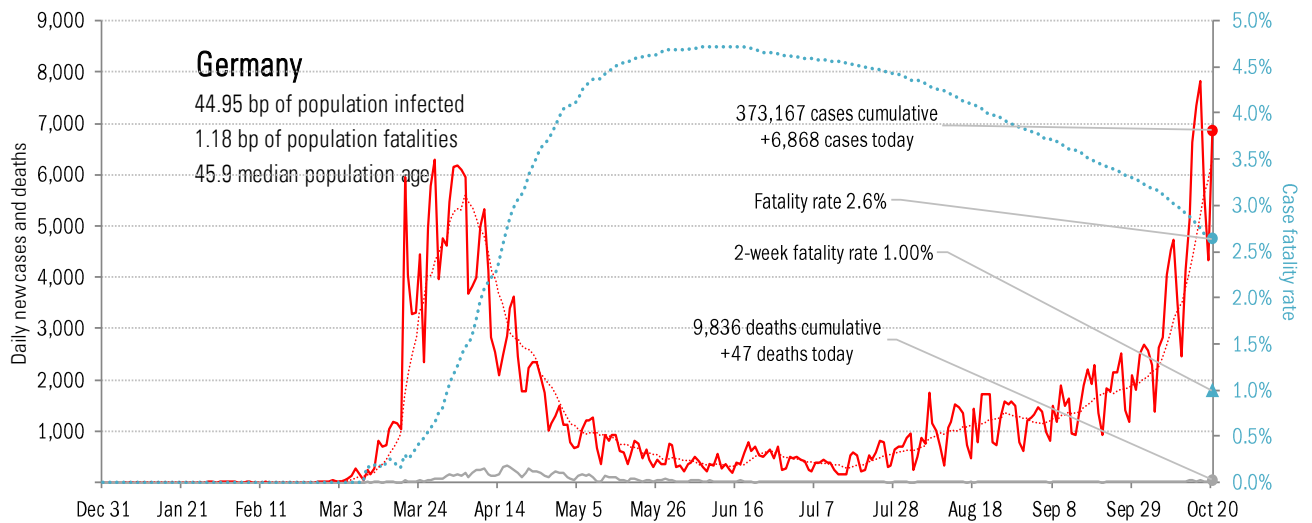
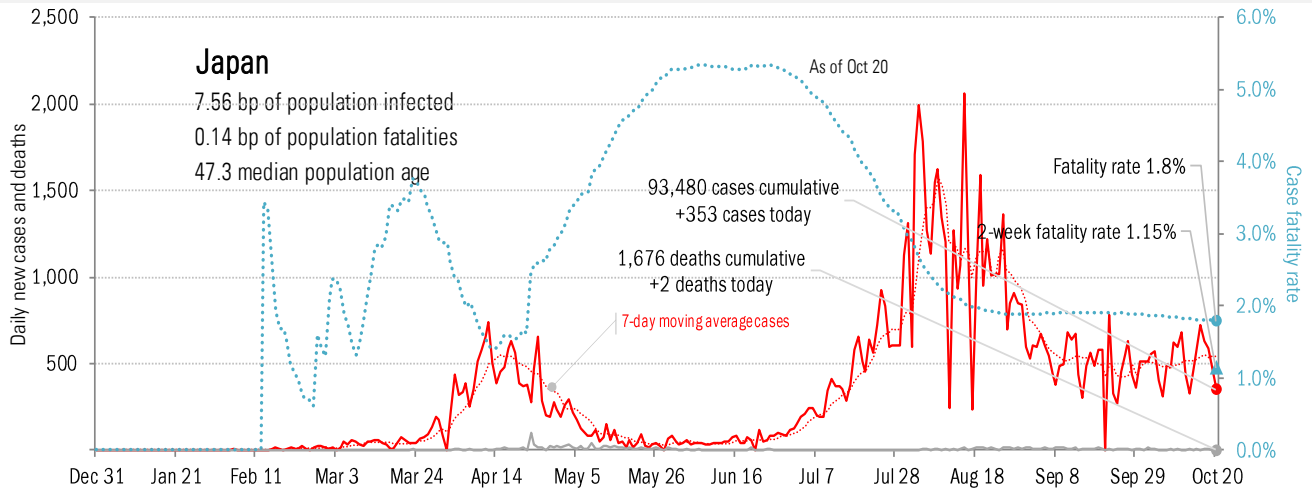
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



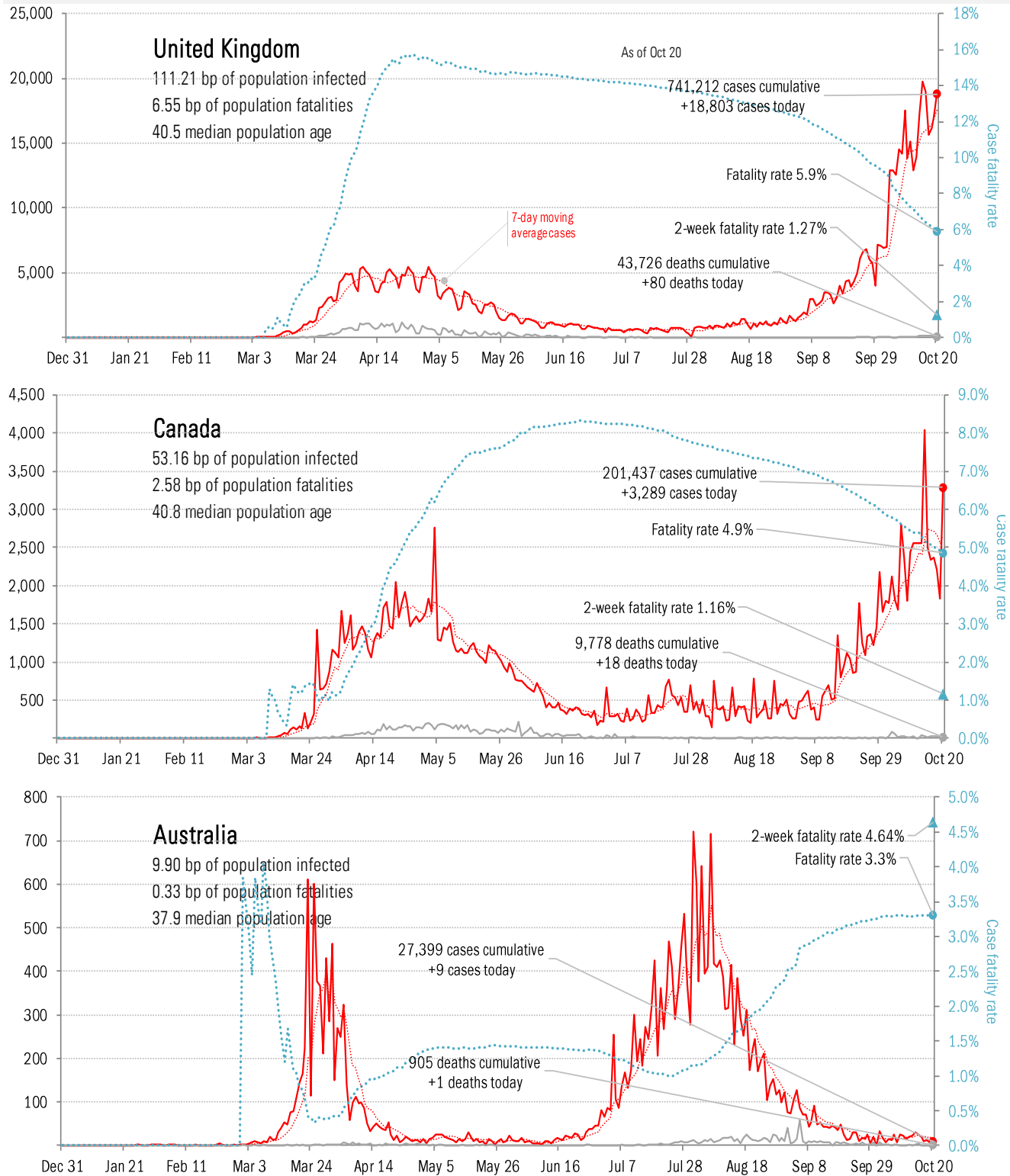
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



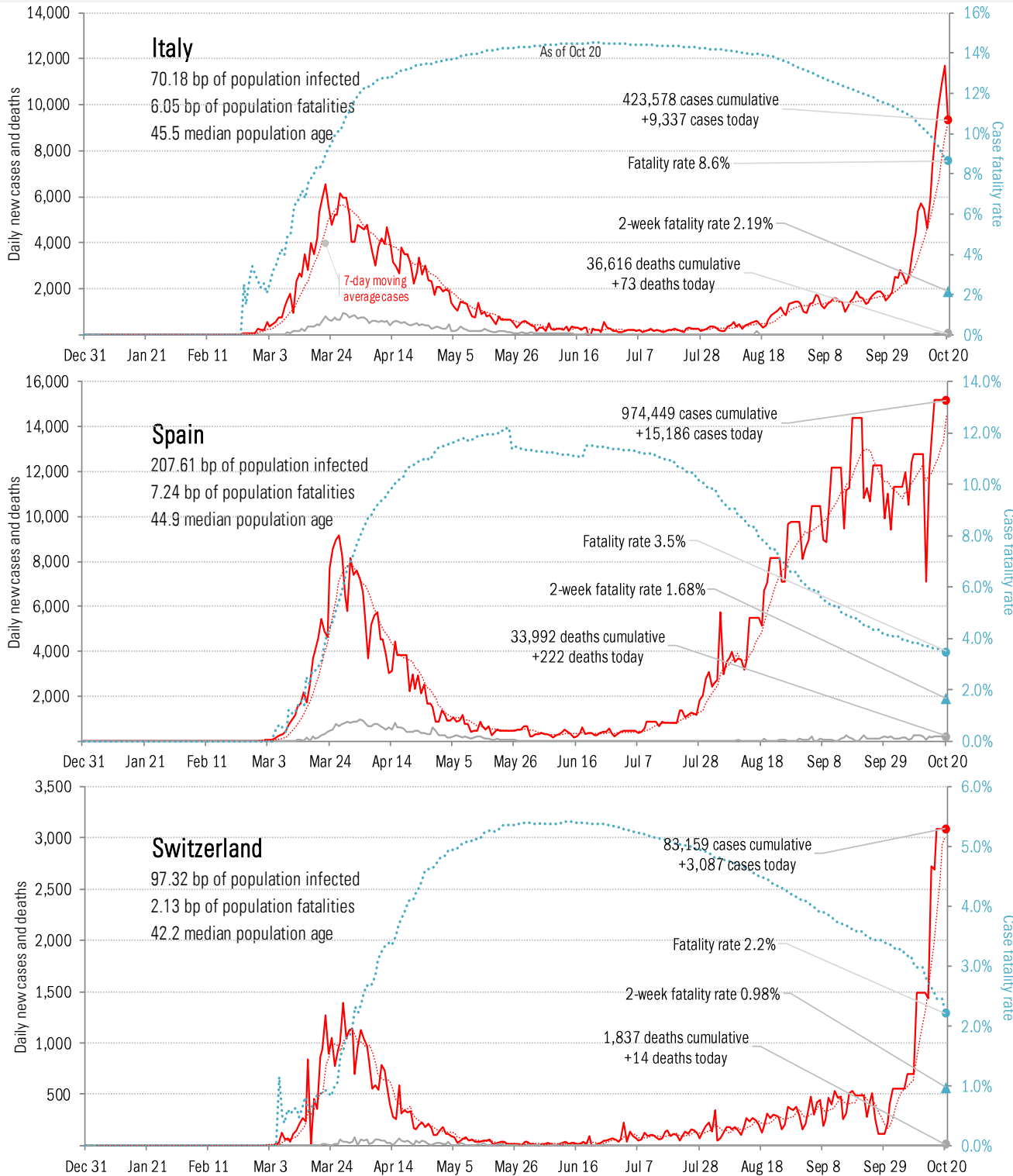
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



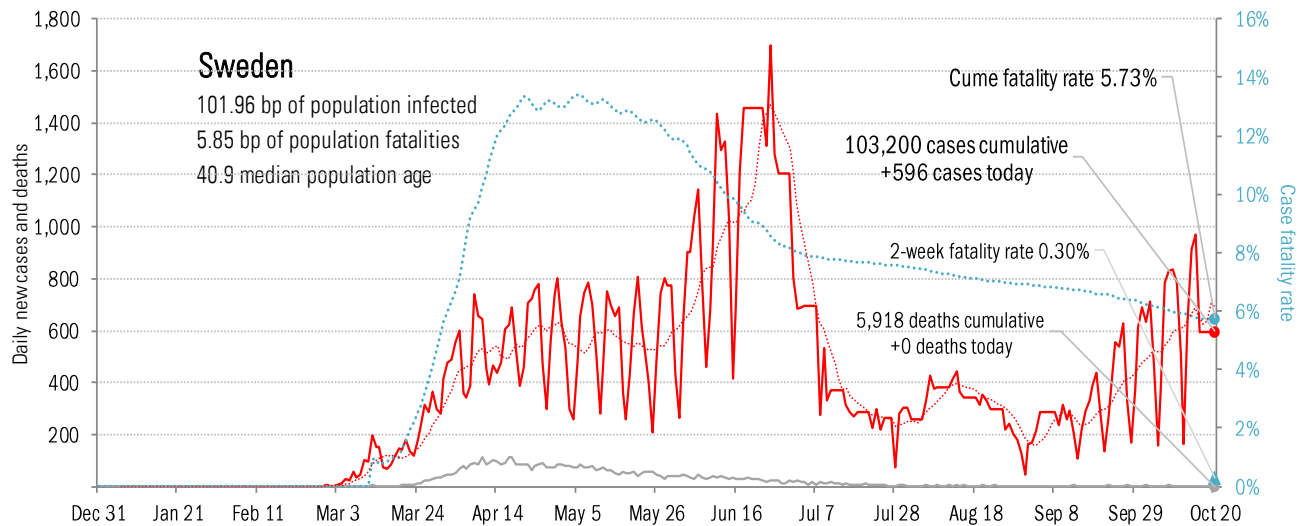
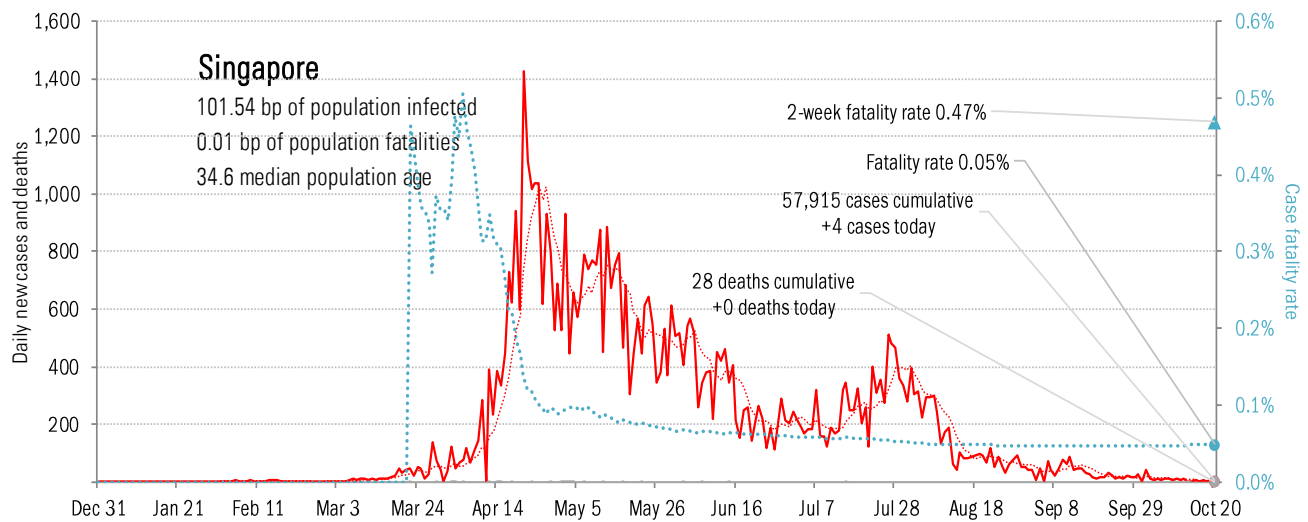
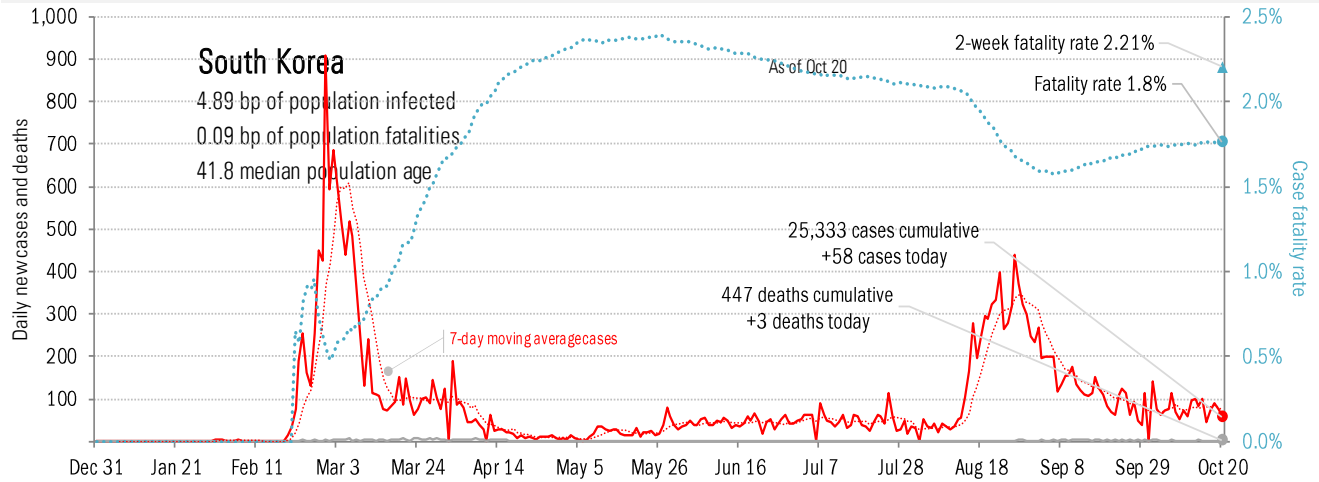
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



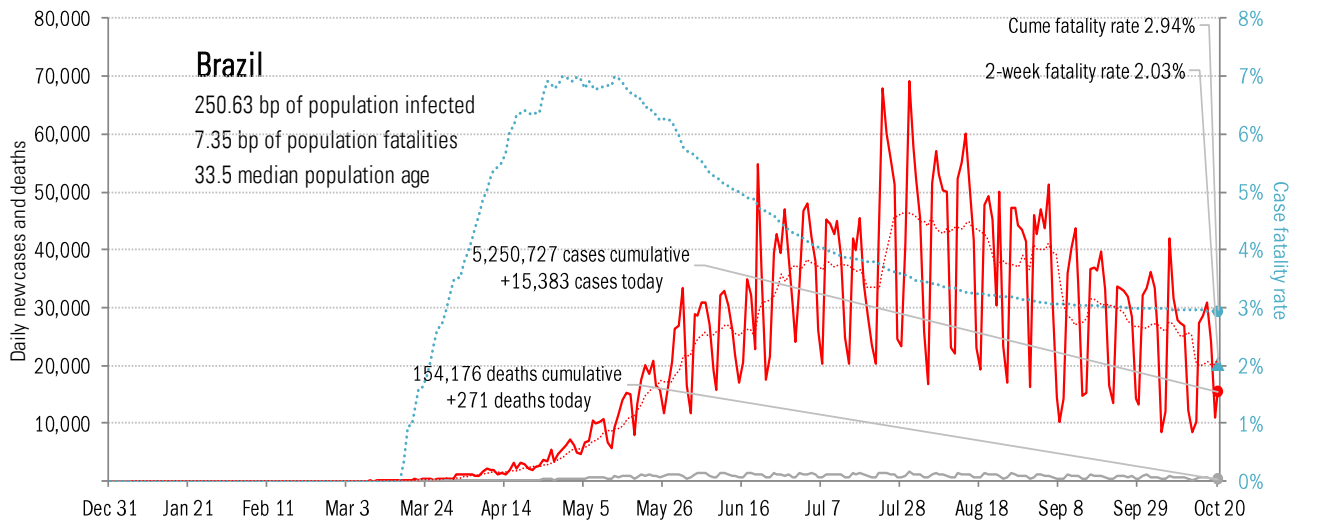
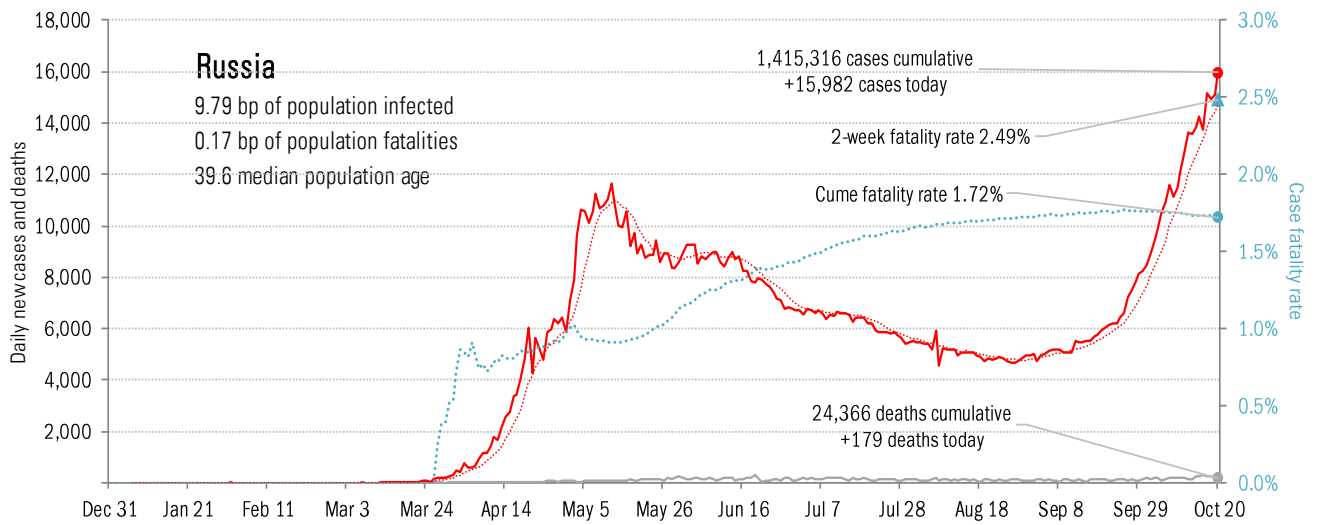
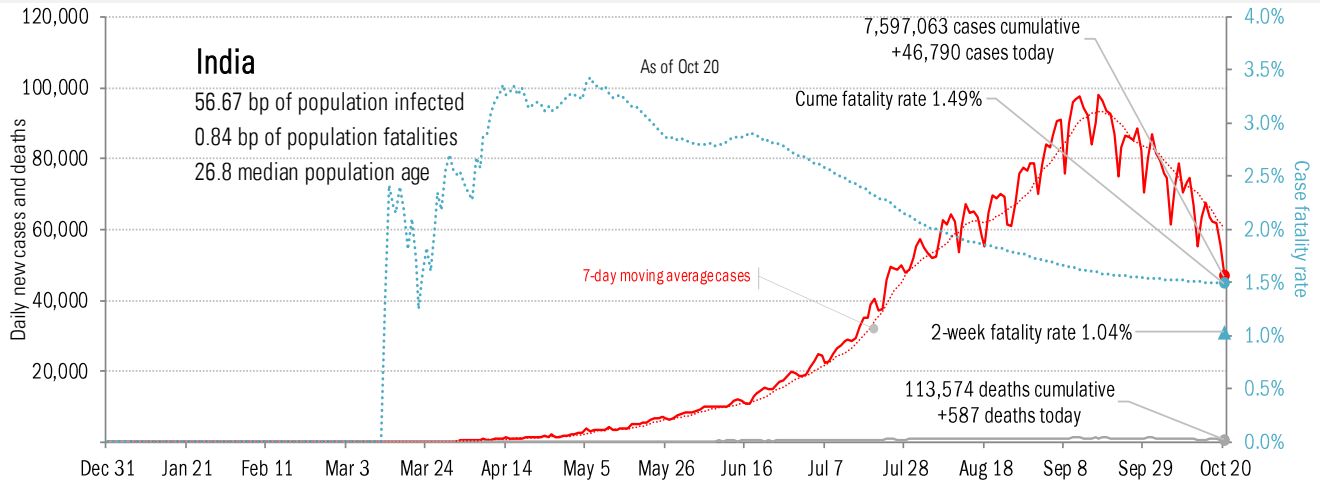
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



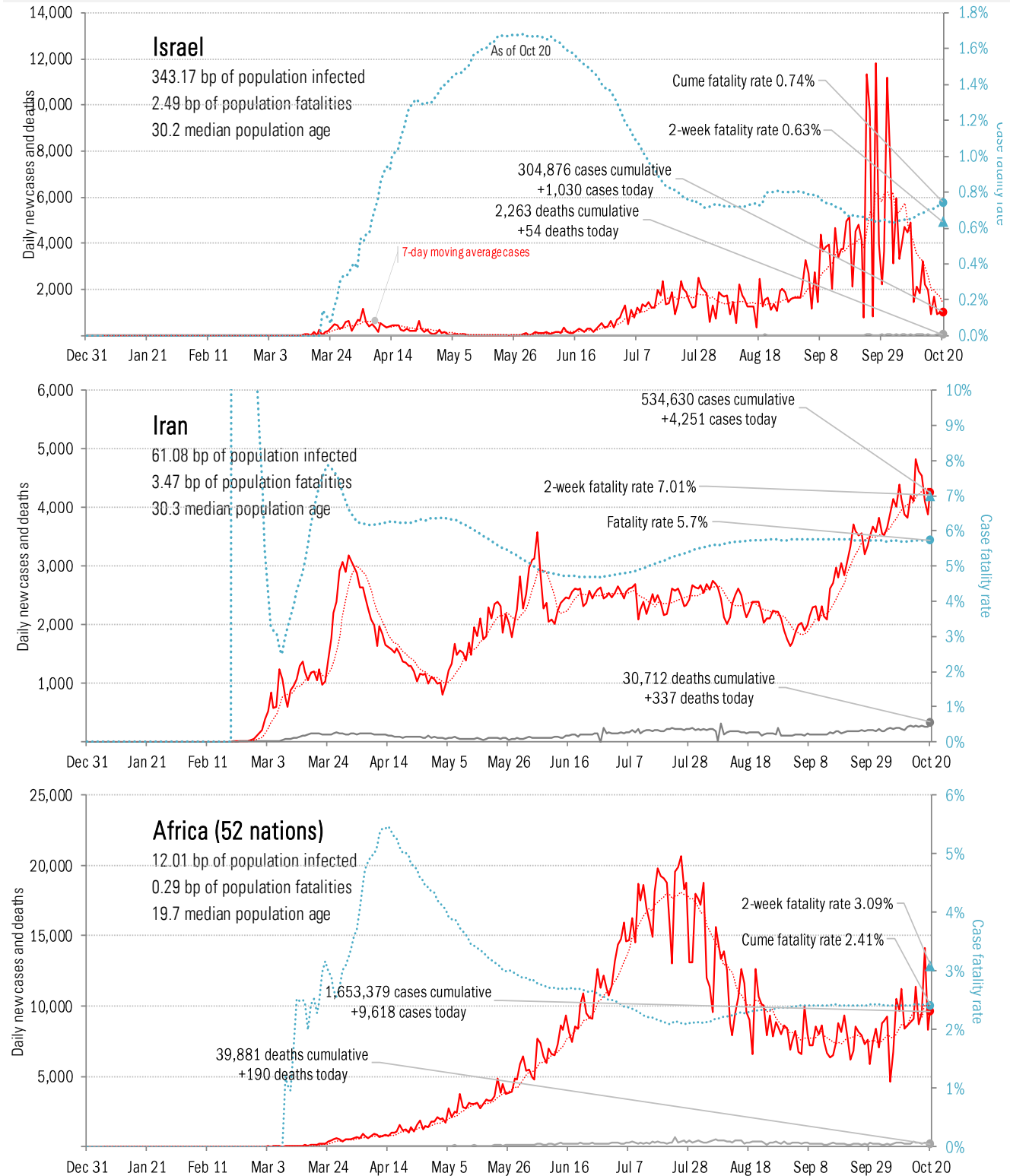
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations