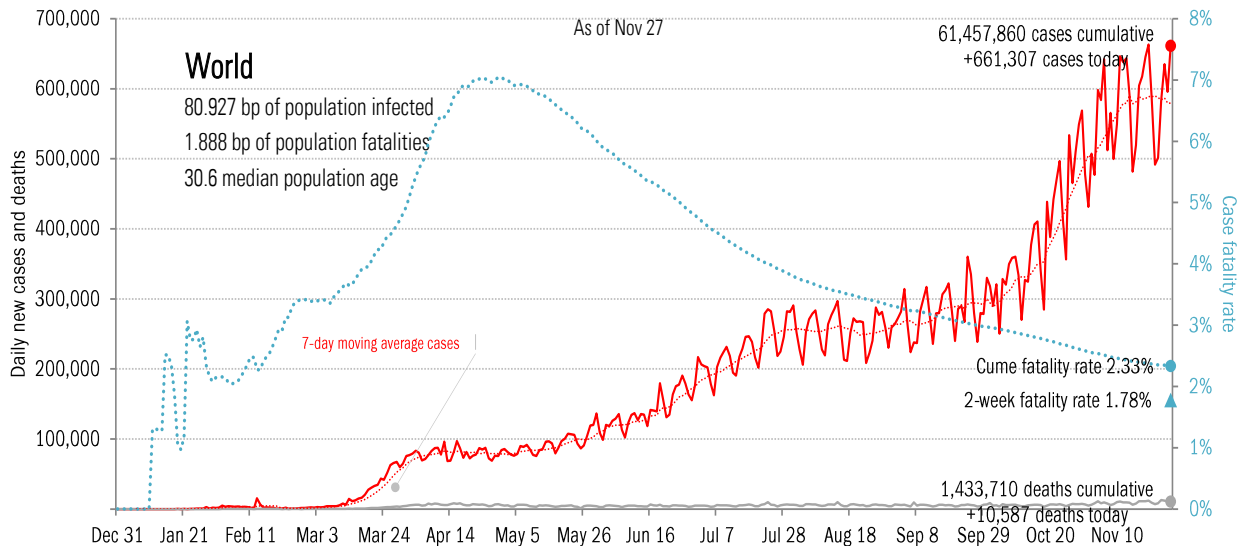
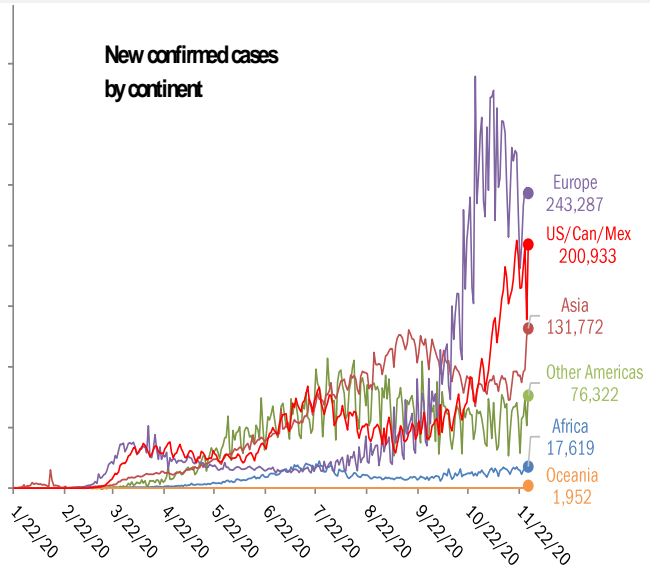


Data Insights: Covid-2019 Monitor

Saturday, November 28, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+194,979	United States	+1,374
Turkey	+44,506	France	+958
India	+41,322	Italy	+827
Brazil	+34,130	Poland	+579
Italy	+28,342	United Kingdom	+520
Russia	+27,267	Brazil	+514
Germany	+20,819	Russia	+487
Poland	+17,304	India	+485
Ukraine	+16,494	Iran	+406
United Kingdom	+14,821	Germany	+371
	+439,984		+6,521
World	+661,307	World	+10,587
Top ten	67%	Top ten	62%



Source: [Johns Hopkins](#), [Covid Tracking Project](#), 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

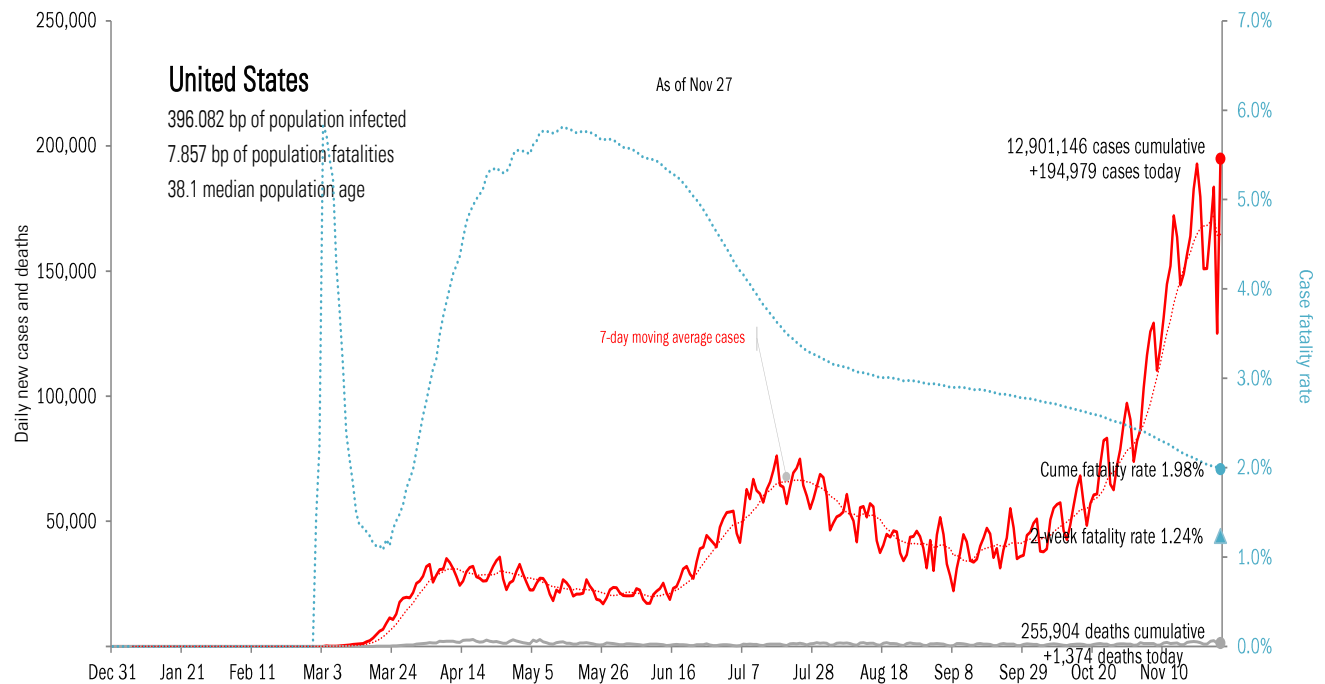
The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
MI	+17,368	MI	+187	CA	+191	CA	1,171,324	NY	26,588	NY	89,995
CH	+17,065	FL	+114	AL	+92	TX	1,147,045	TX	21,207	TX	55,149
FL	+16,795	MN	+101	CT	+49	FL	963,751	CA	19,033	NJ	40,982
CA	+12,635	IL	+90	GA	+48	IL	705,063	FL	18,596	GA	34,605
NY	+8,176	NC	+72	NY	+47	NY	628,375	NJ	16,942	CH	25,960
NC	+8,008	CH	+72	MA	+44	GA	416,303	IL	12,686	VA	25,451
IL	+7,574	CA	+54	OR	+37	CH	399,808	MA	10,635	AZ	25,296
PA	+7,360	TX	+51	MI	+34	WI	399,526	PA	10,234	IN	24,940
UT	+6,142	GA	+44	PA	+27	MI	369,801	GA	9,380	AL	24,451
MN	+5,698	LA	+41	ND	+26	TN	356,716	MI	9,357	MD	20,512
+106,821		+826		+595		6,557,712		154,658		367,341	
All states	+194,979	All states	+1,374	All states	-+647	All states	12,901,146	All states	255,904	All states	561,644
Top ten	55%	Top ten	60%	Top ten	-92%	Top ten	51%	Top ten	60%	Top ten	65%

Some states not reporting

Five most improved US states

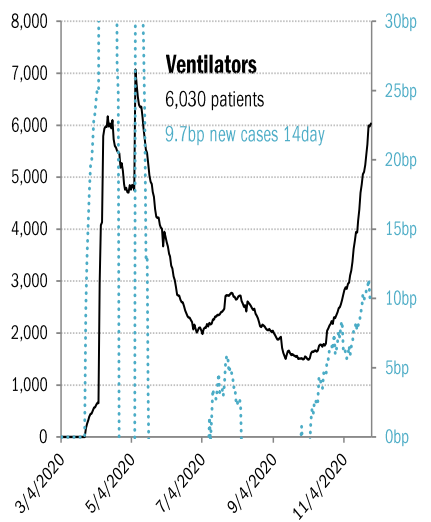
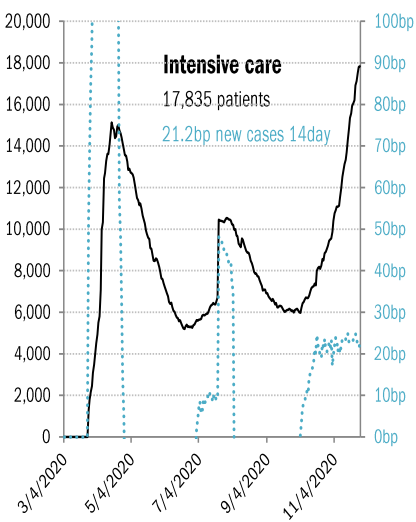
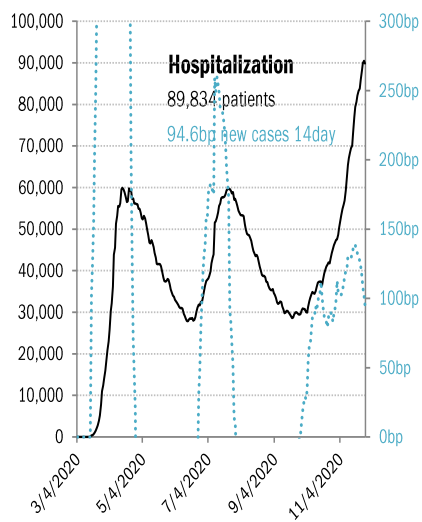
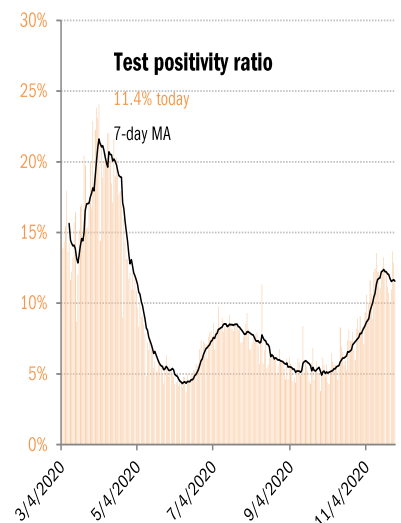
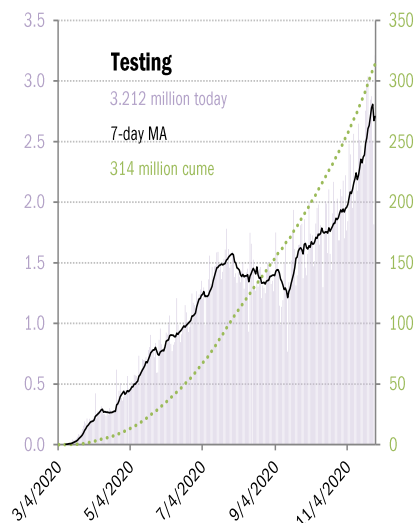
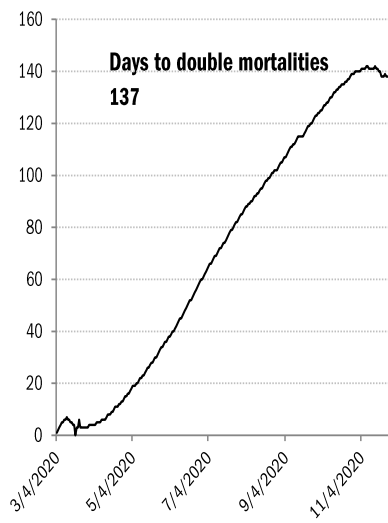
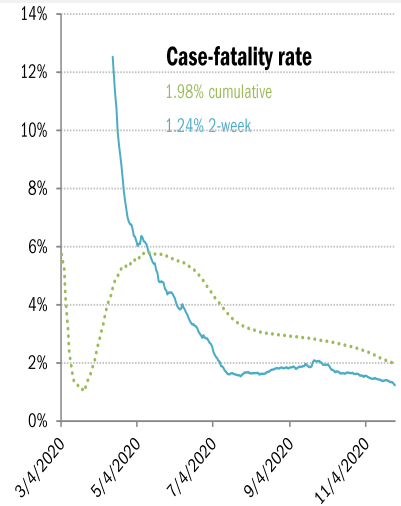
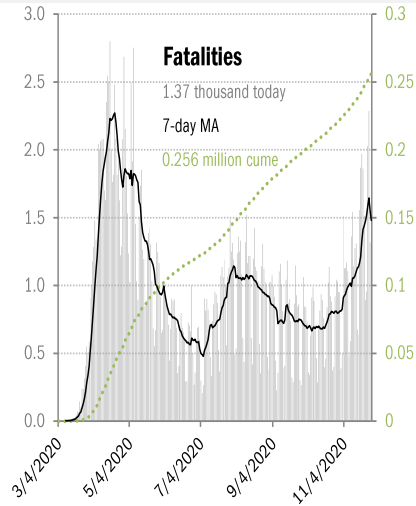
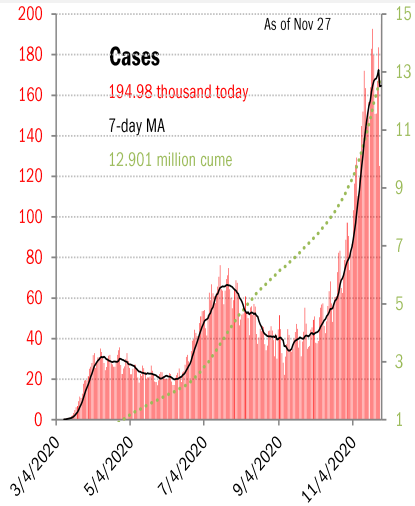
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TX	-9,207	TX	-155	KS	-324	CH	+12,629
IL	-4,448	PA	-97	TX	-309	MA	+9,791
WI	-4,244	IL	-66	WI	-165	PA	+6,351
WA	-2,887	WI	-53	IN	-118	UT	+5,800
CA	-2,005	CA	-50	IL	-102	TN	+5,638



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

US deep-dive

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



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

Recommended reading

[Homespun: confectionery mask-making](#)

The Economist
November 28, 2020

[Doctor Who Demanded Mandatory Mask Law Pictured Partying Maskless on Boat Surrounded by Bikini-Clad Women](#)

Paul Joseph Watson
Summit News
November 25, 2020

[U.K. Banks Near Agreement on Plan to Recover Soured Covid Loans](#)

Stefania Spezzati
Bloomberg
November 27, 2020

[A closer look at U.S. deaths due to COVID-19](#)

Yanni Gu
Johns Hopkins News-Letter
November 22, 2020

Meme of day

normal people

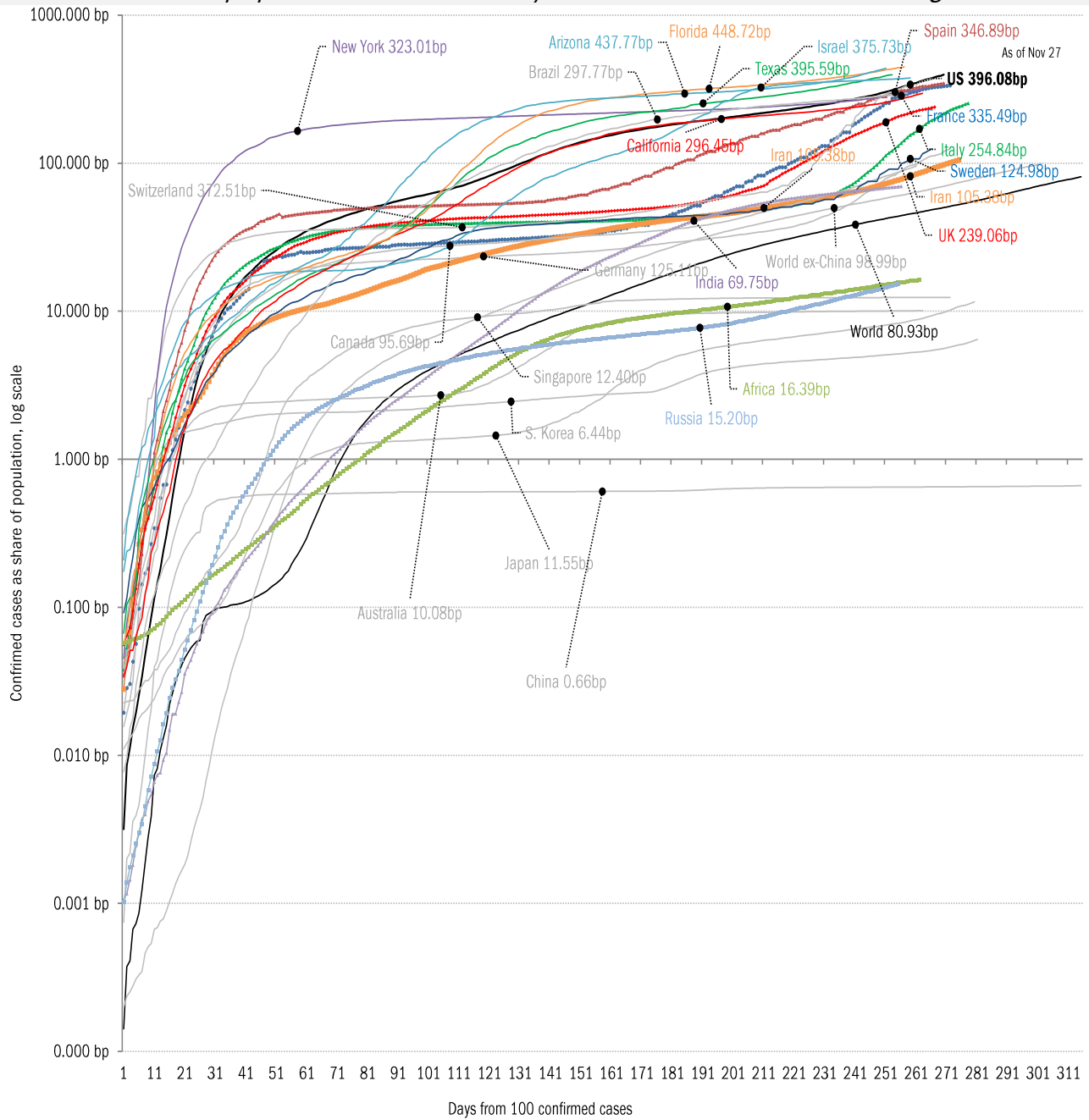


conspiracy theorists



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

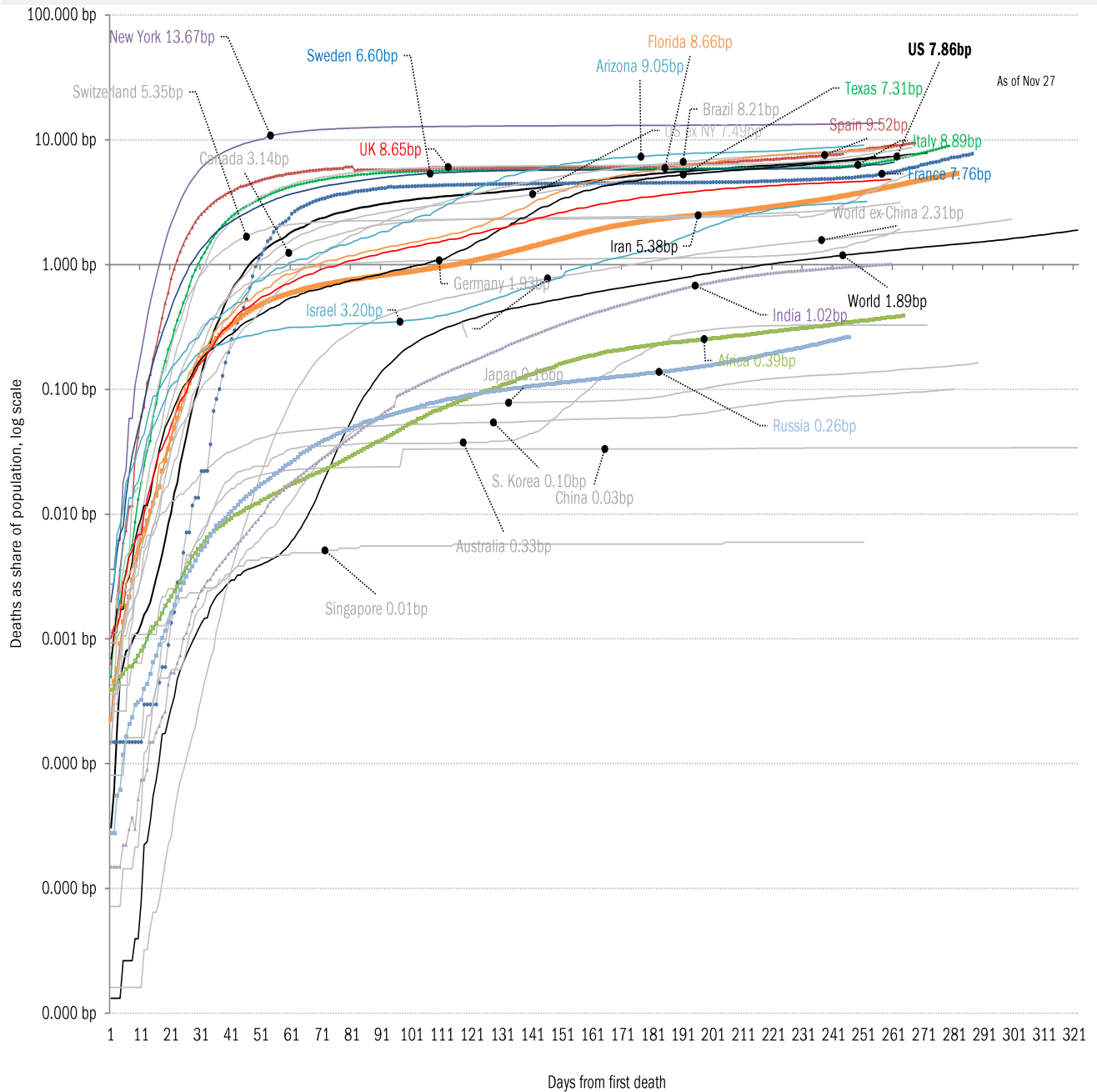
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

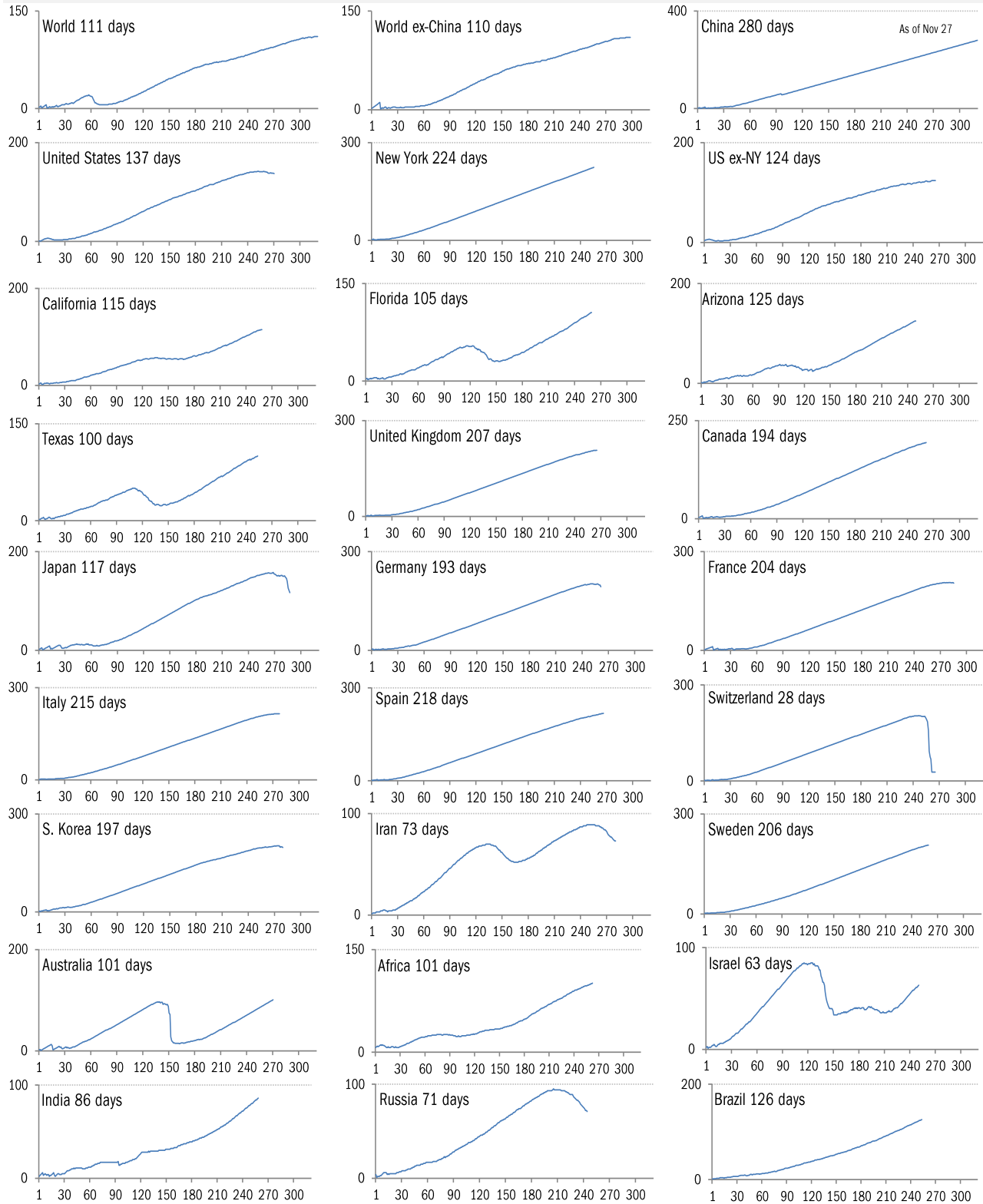


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

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

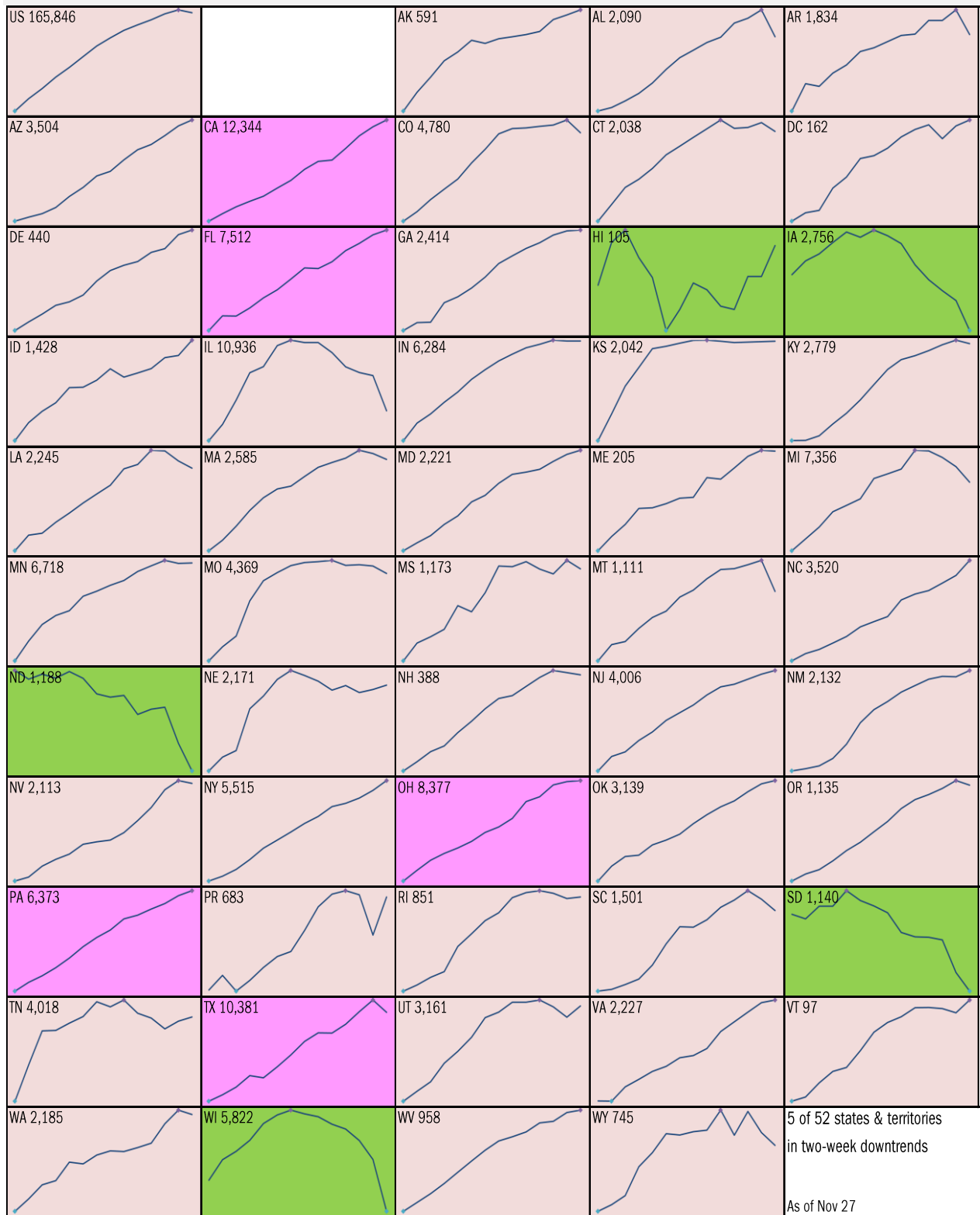


Source: [Johns Hopkins, Covid Tracking Project](#), TrendMacro calculations

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

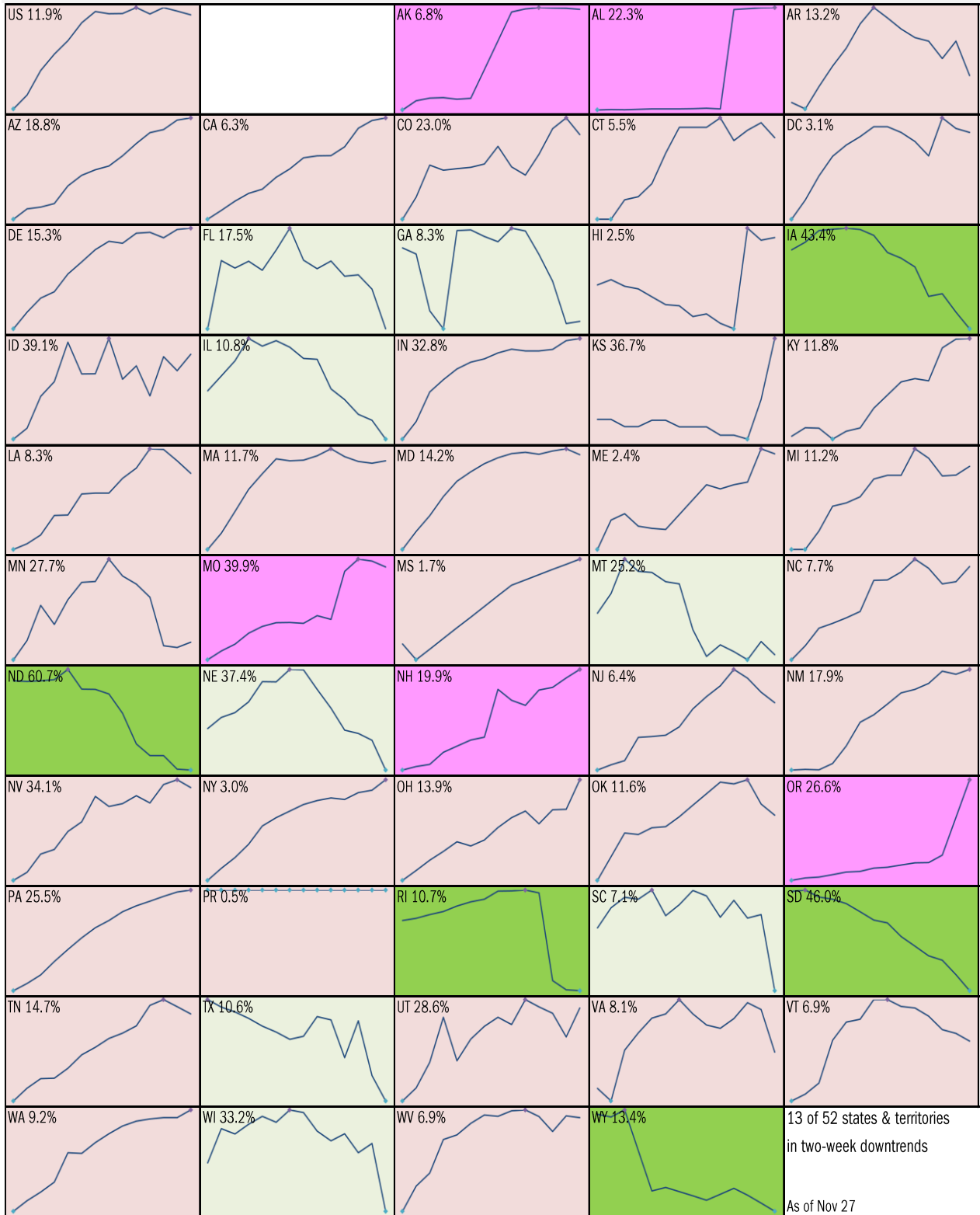


Source: [Covid Tracking Project](#), TrendMacro calculations

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



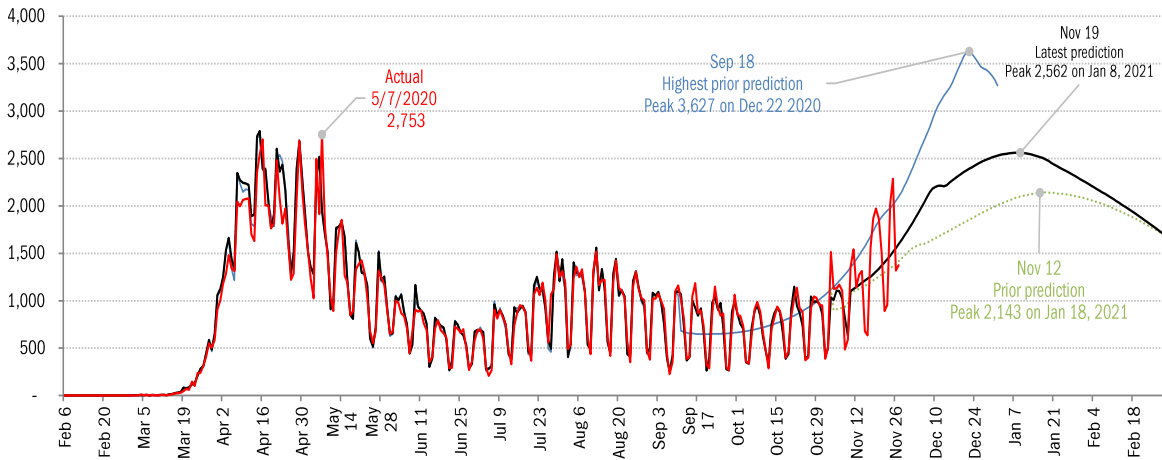
Source: [Covid Tracking Project](#), TrendMacro calculations

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

New daily fatalities

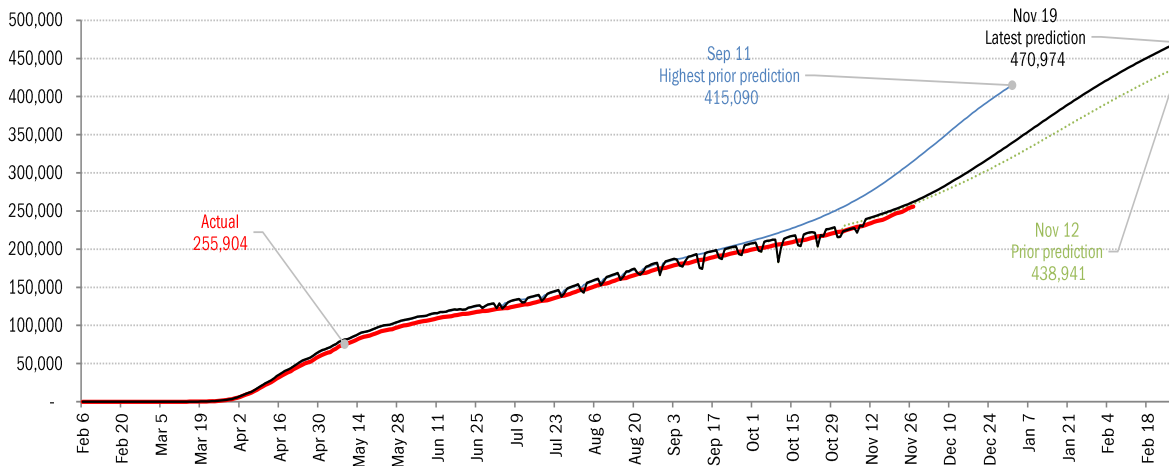
As of Nov 27

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

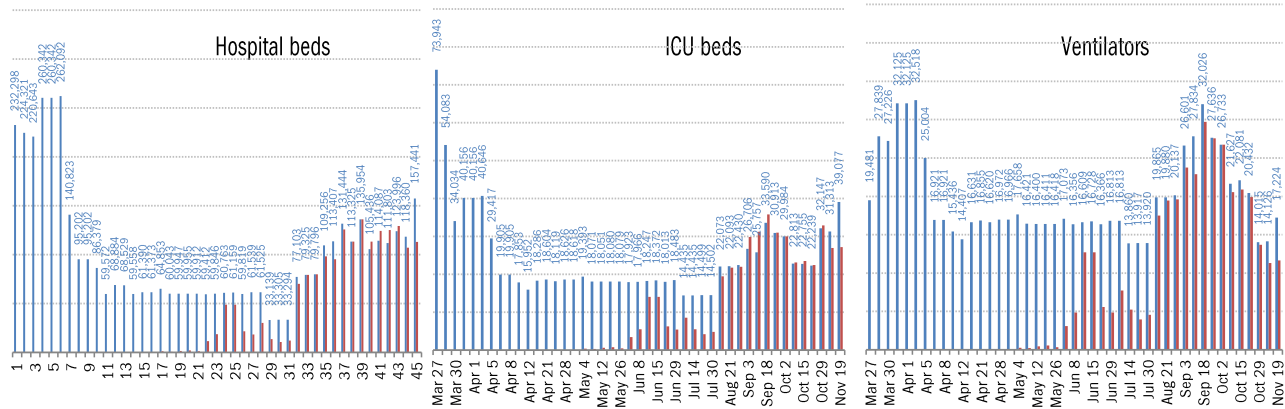


Cumulative fatalities

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

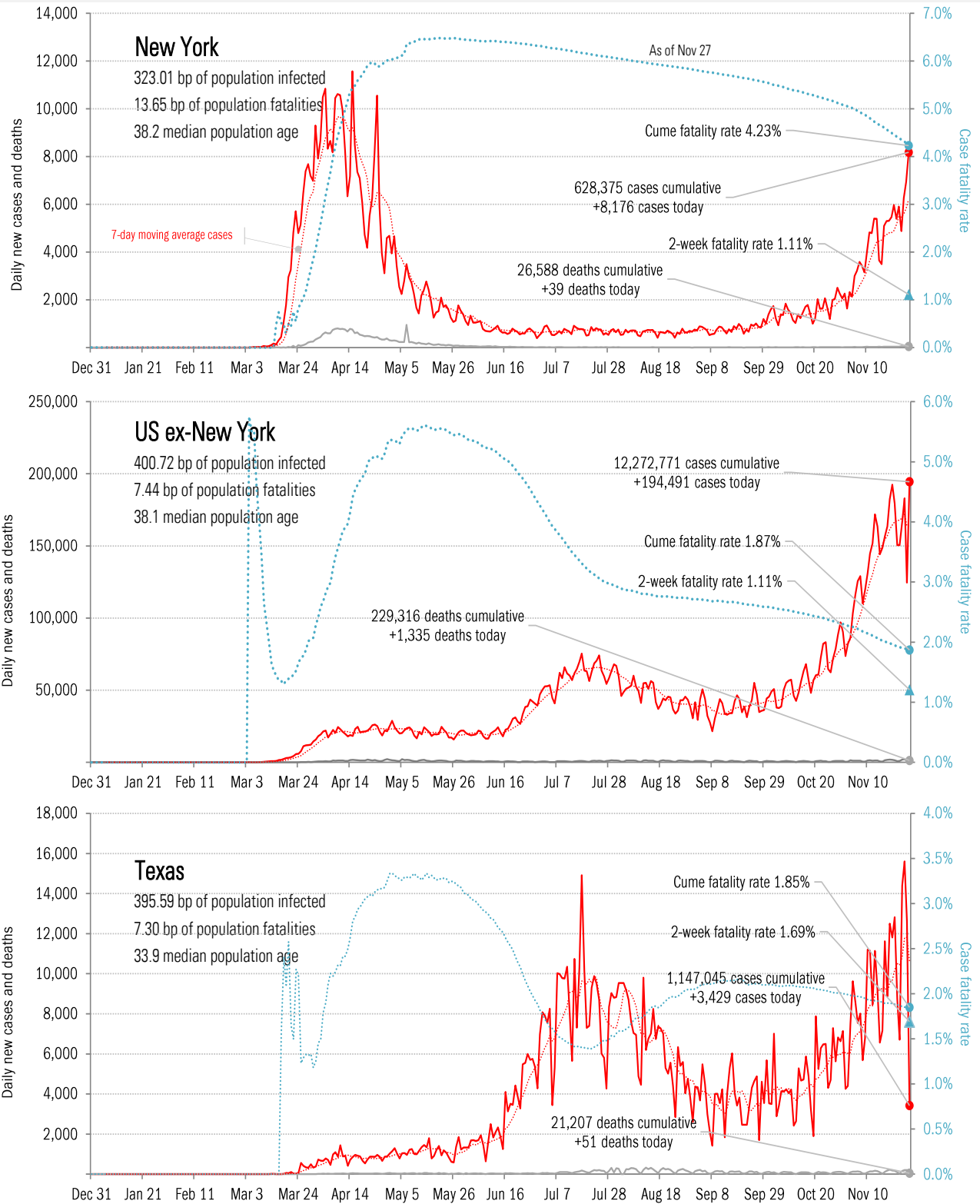


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



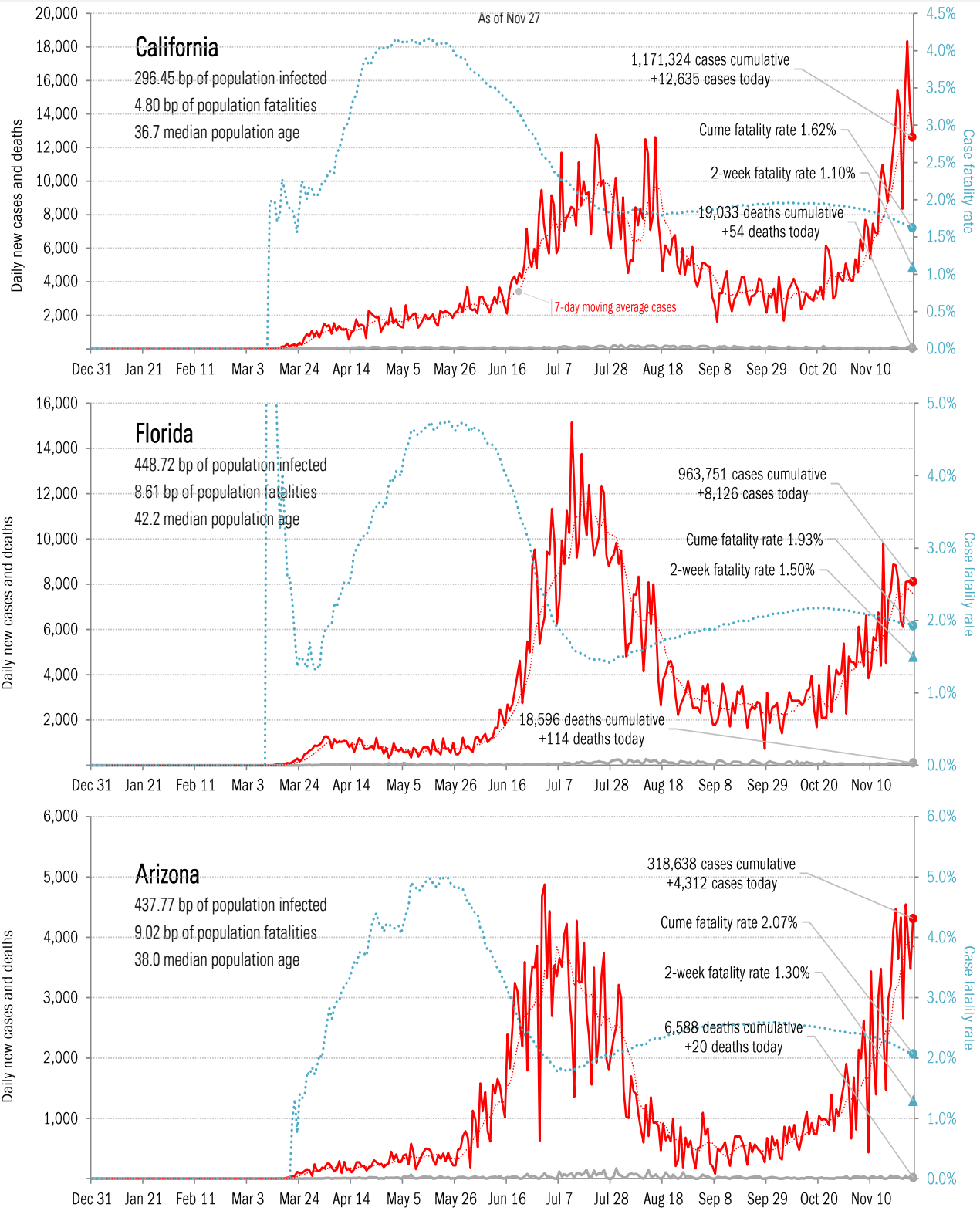
Source: [IHME Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



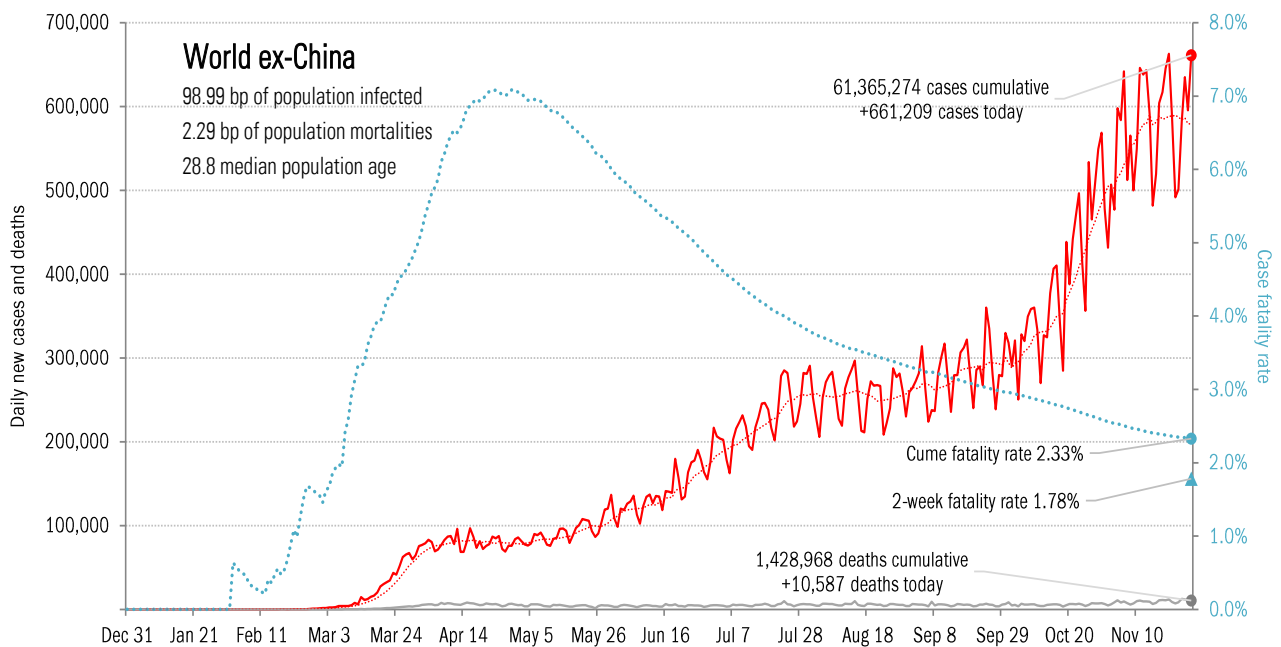
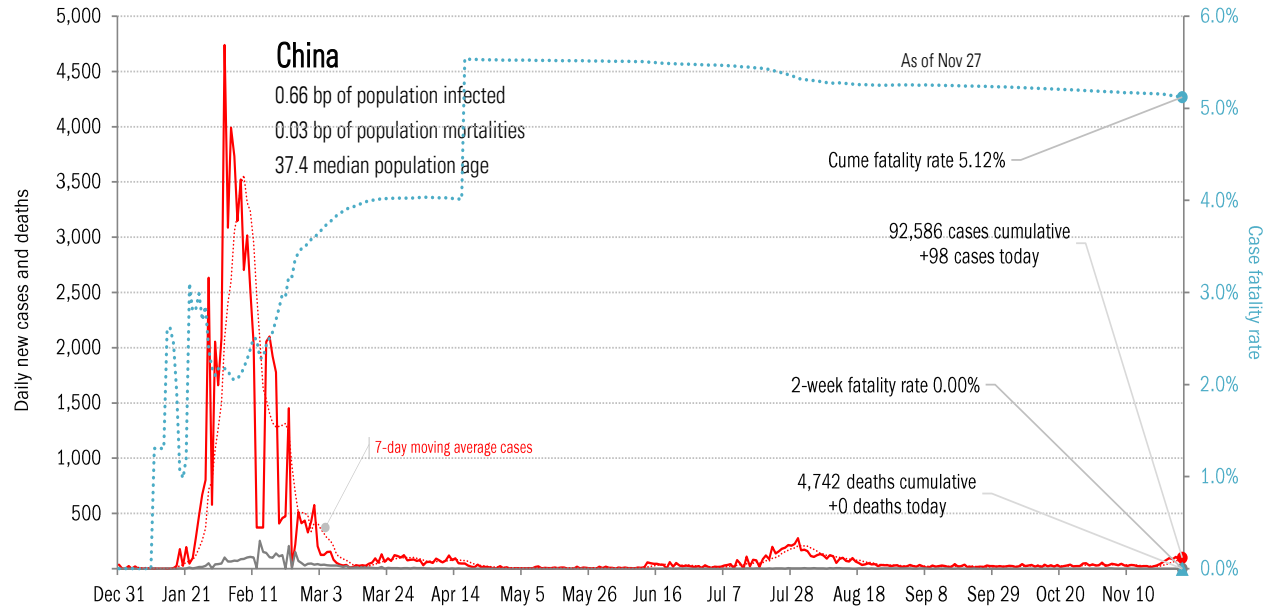
Source: [Covid Tracking Project](#), TrendMacro calculations

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



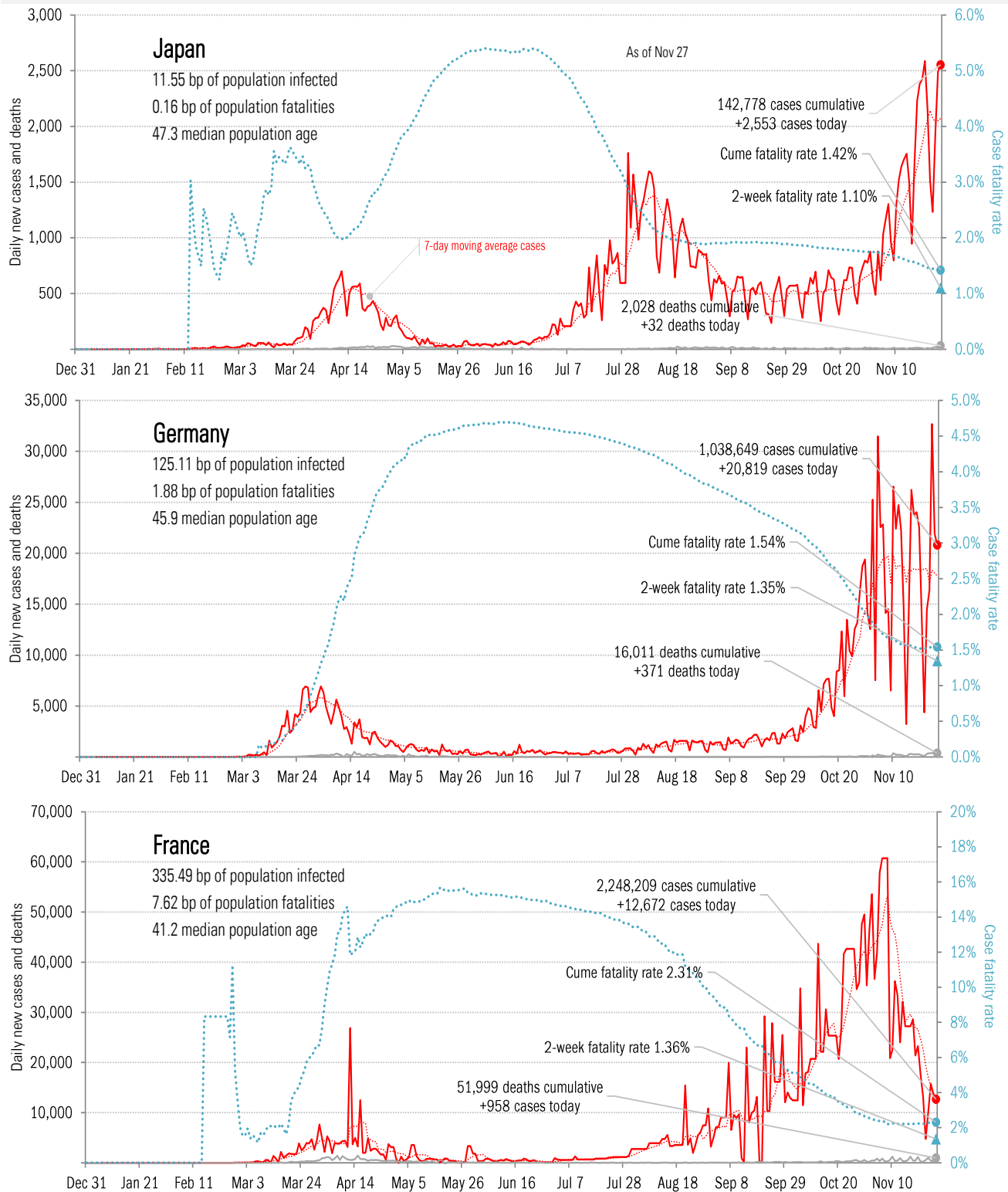
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



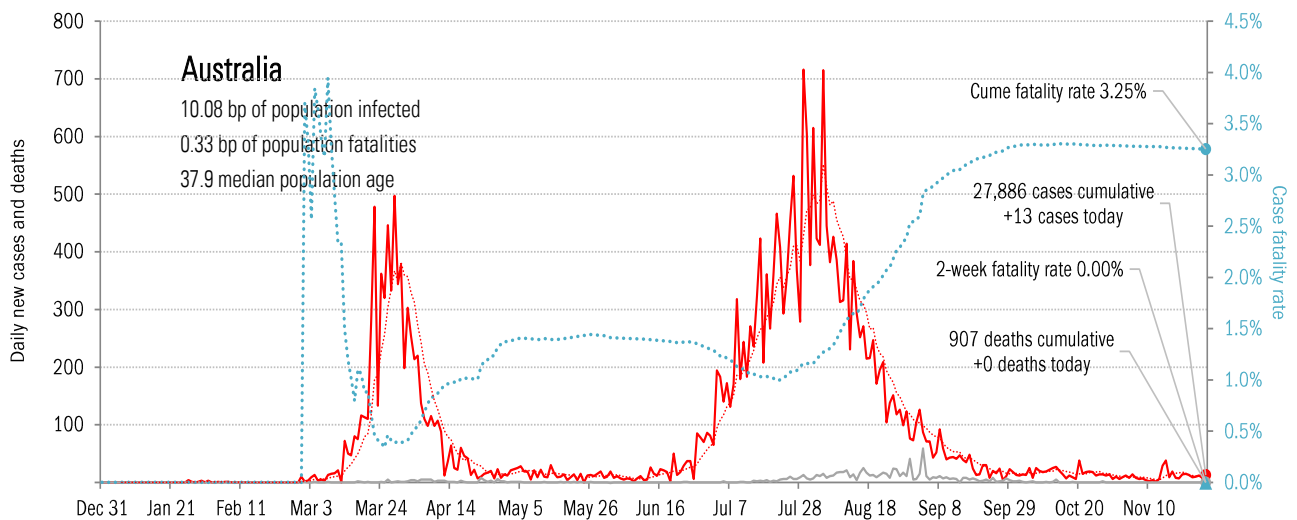
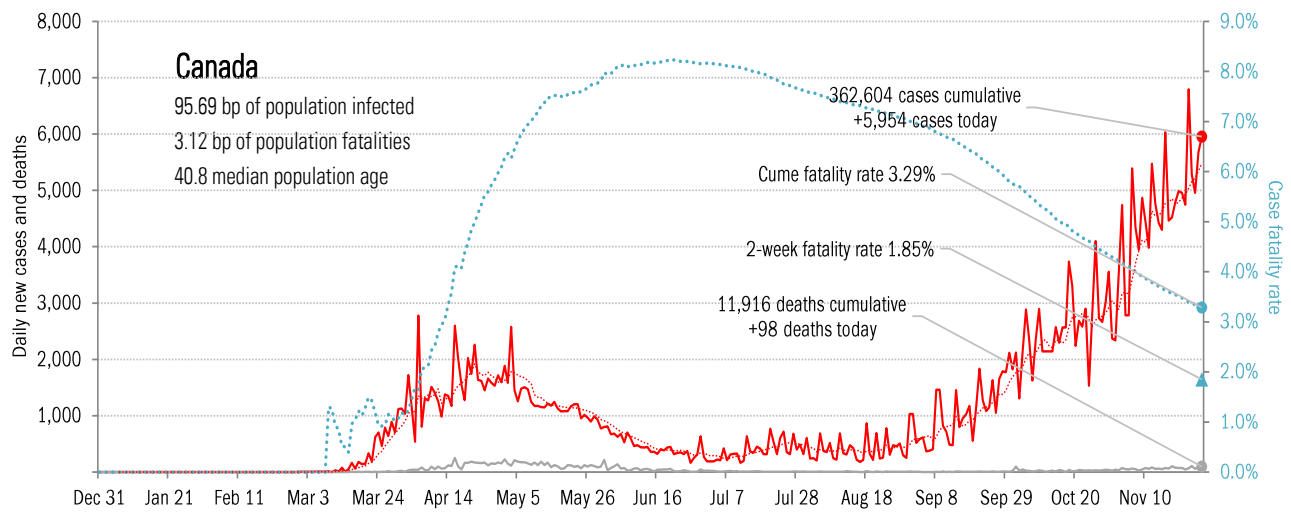
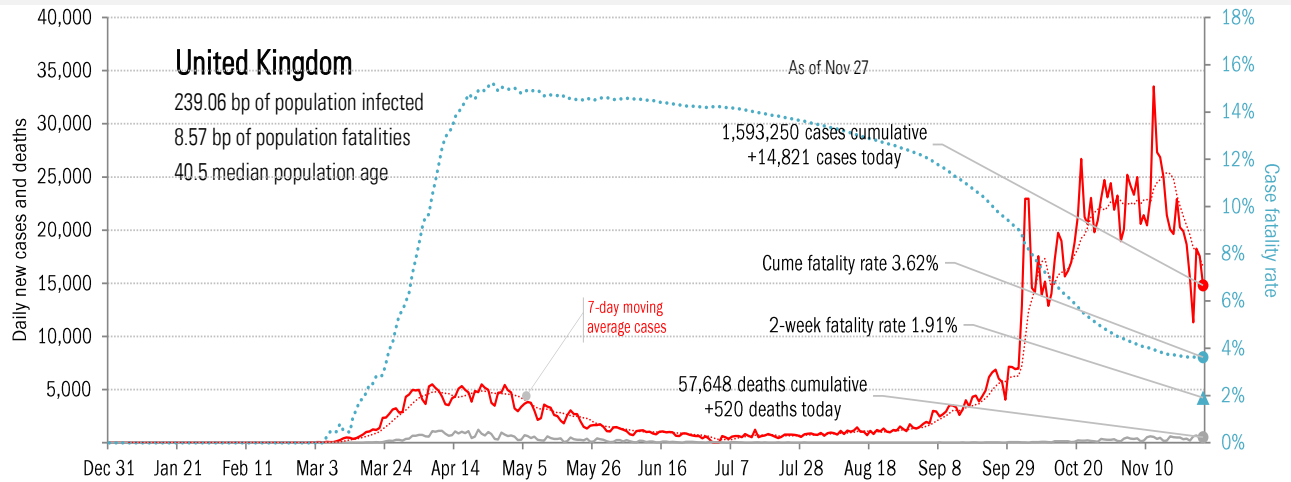
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



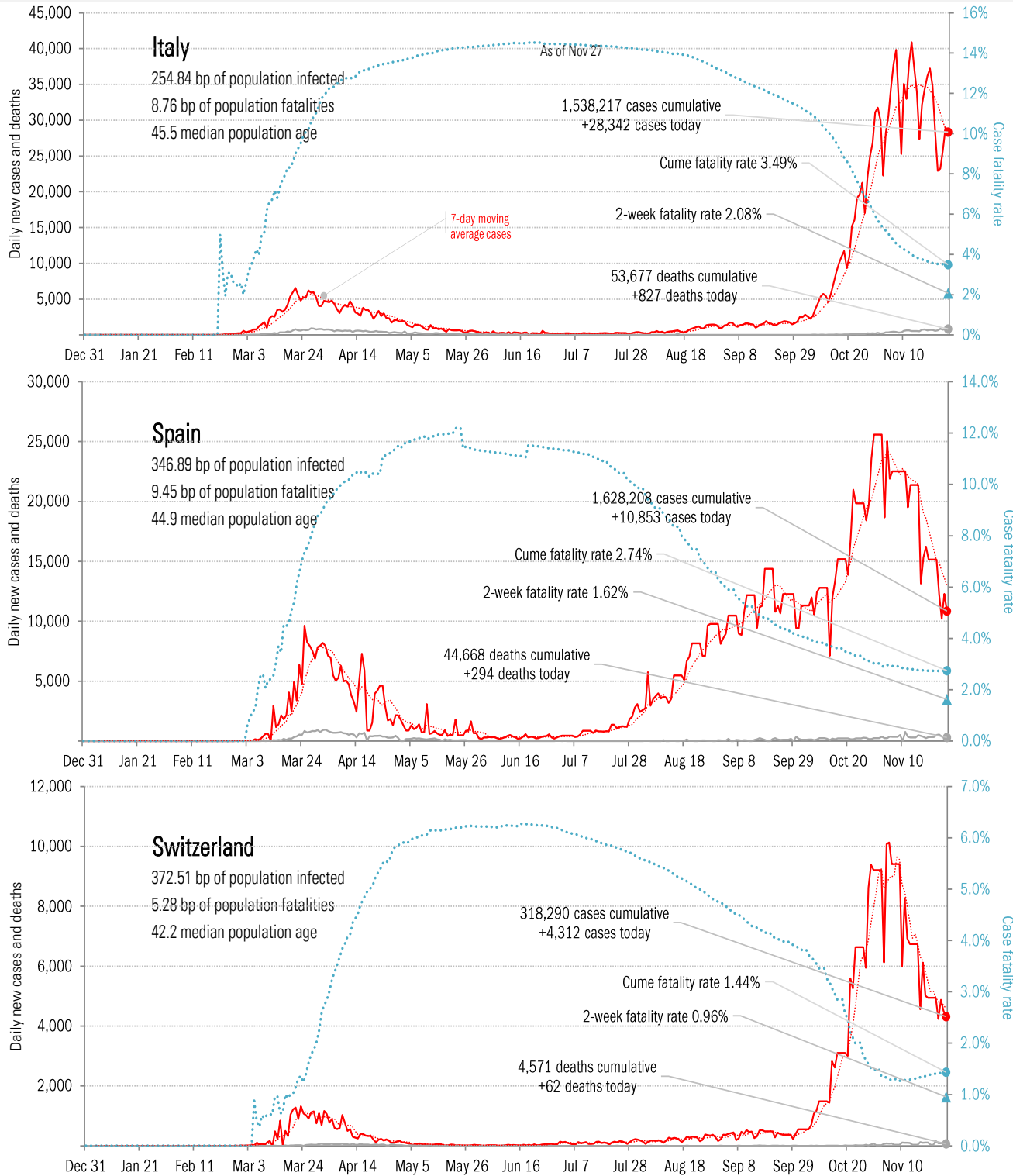
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



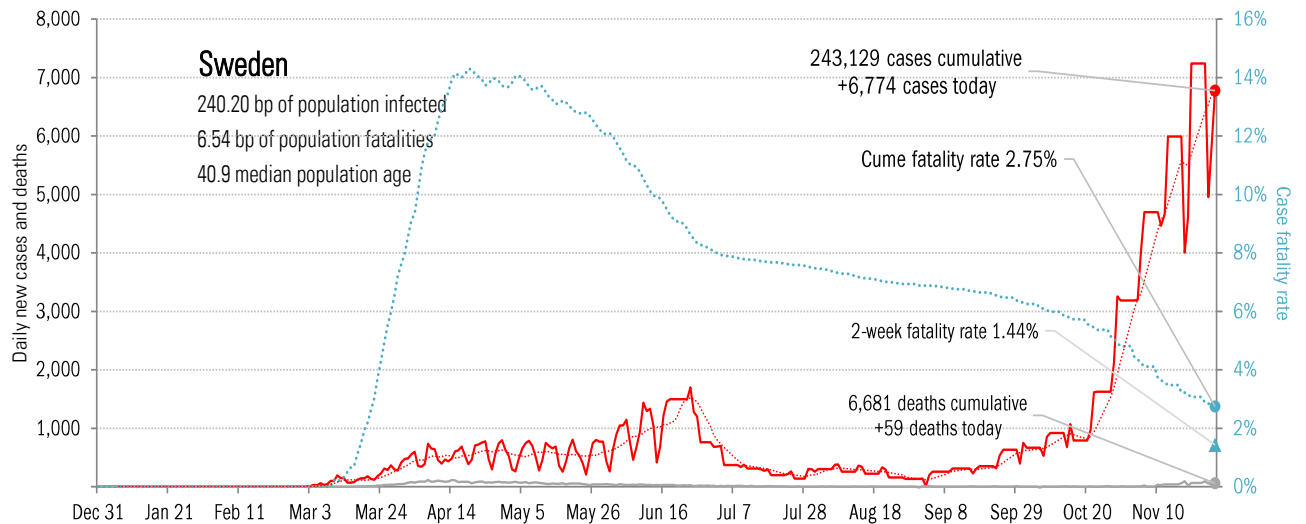
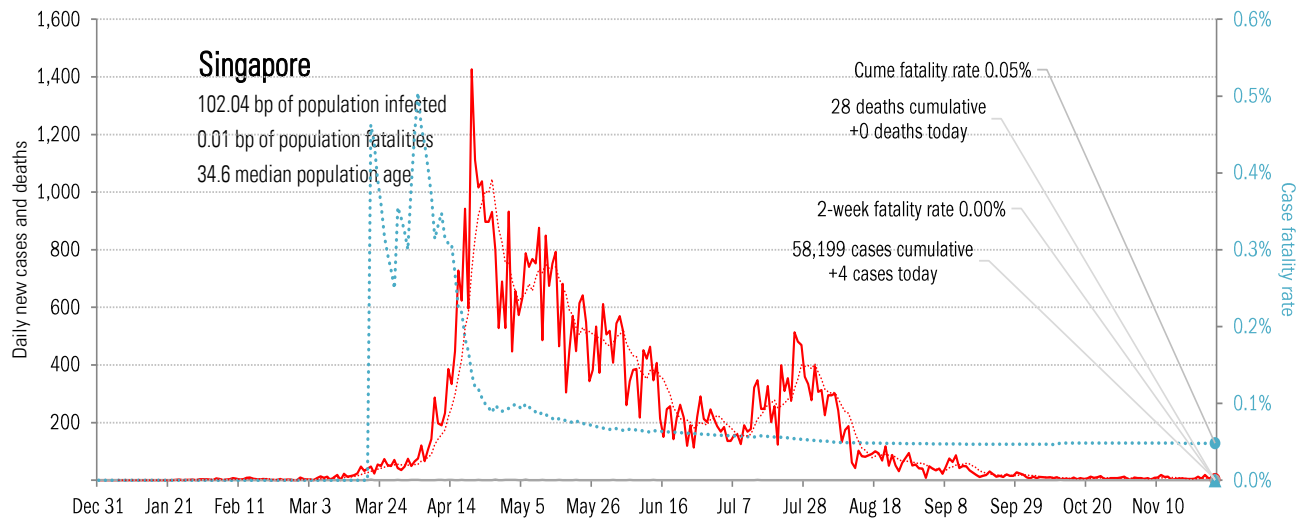
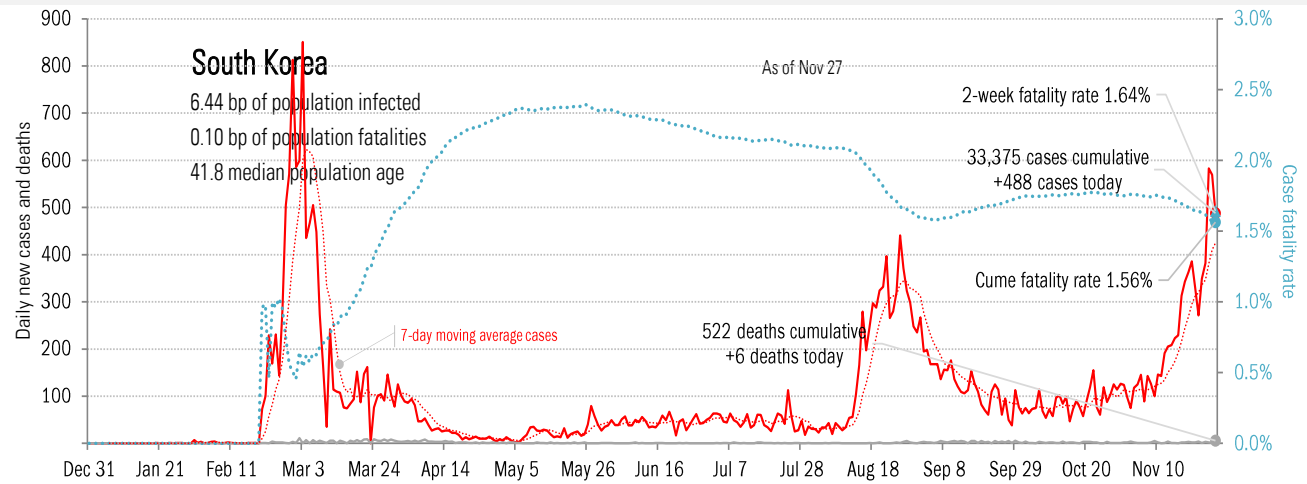
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



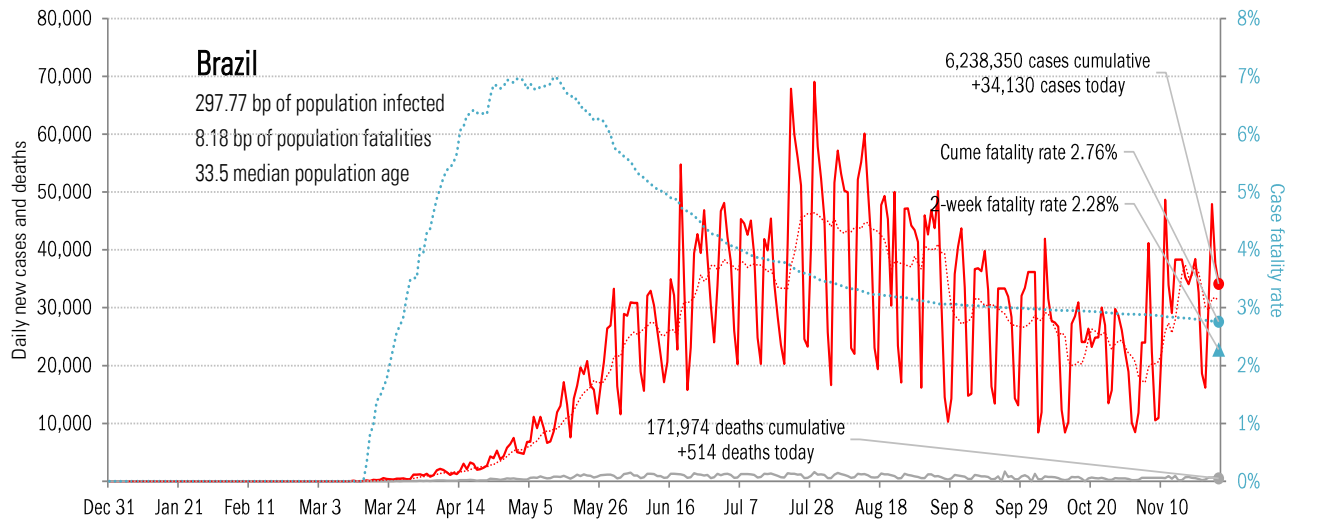
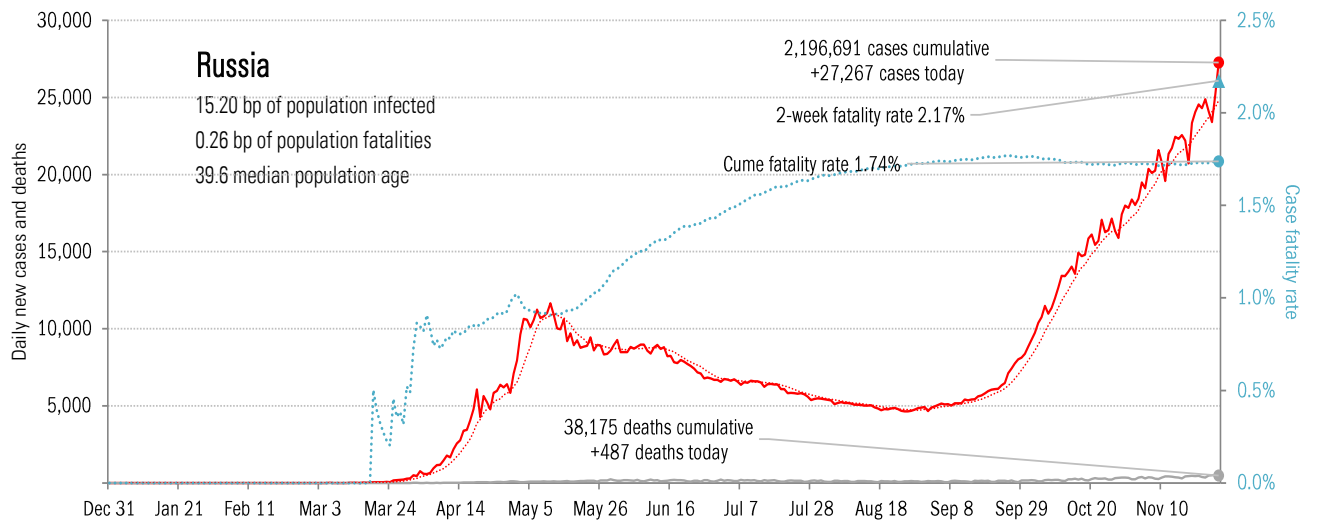
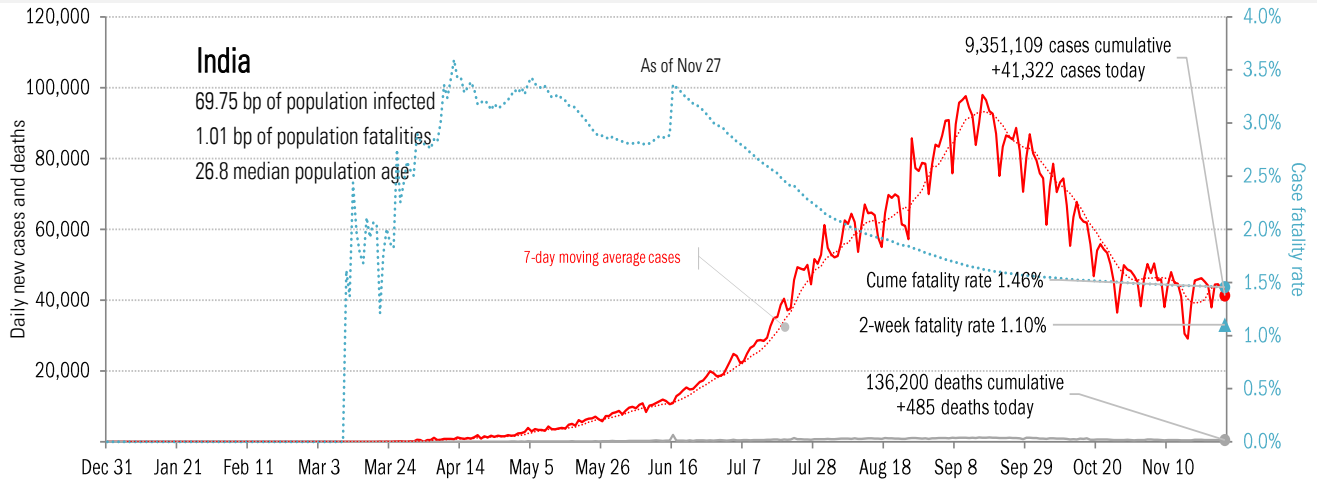
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



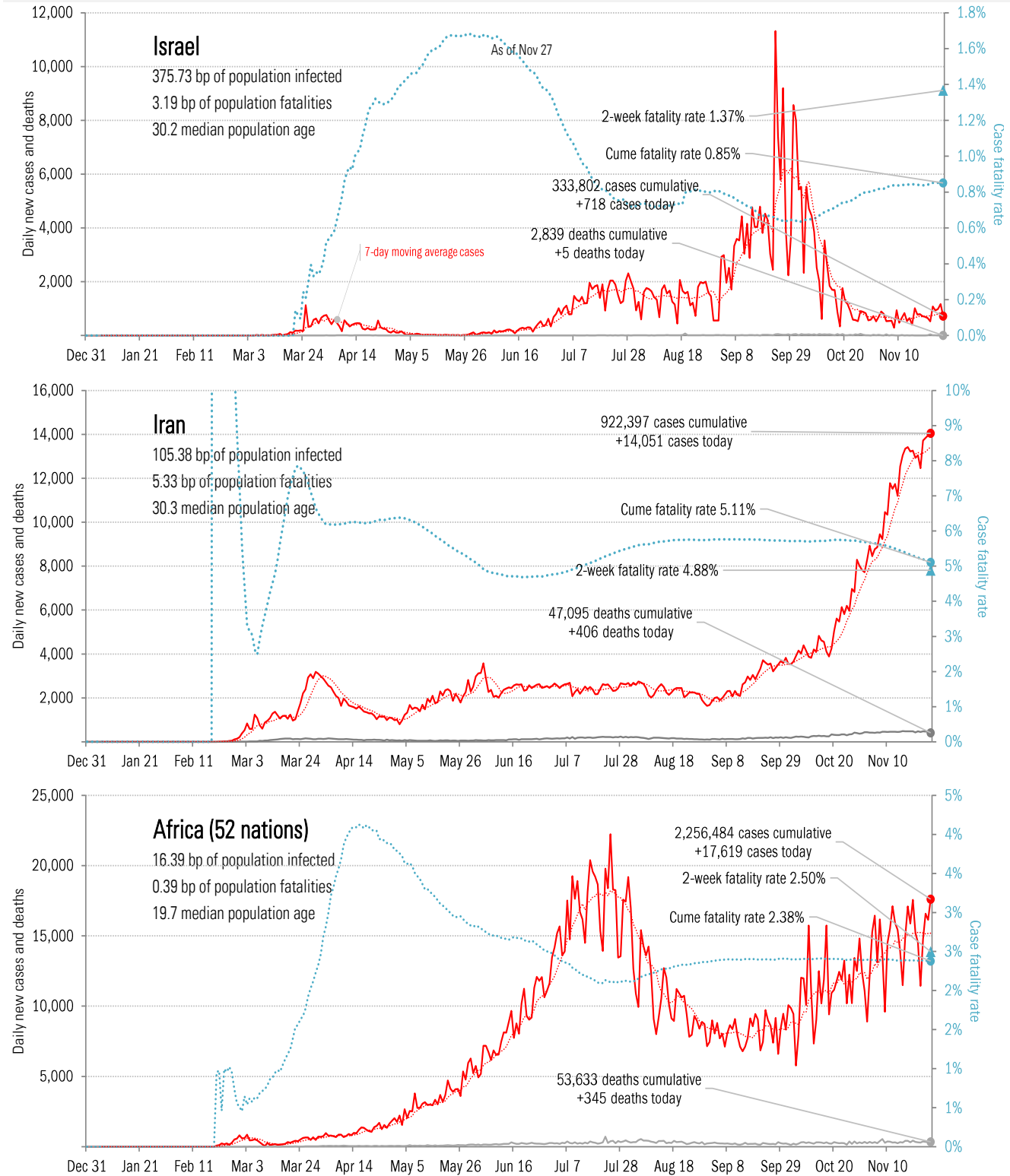
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [Johns Hopkins](#), TrendMacro calculations