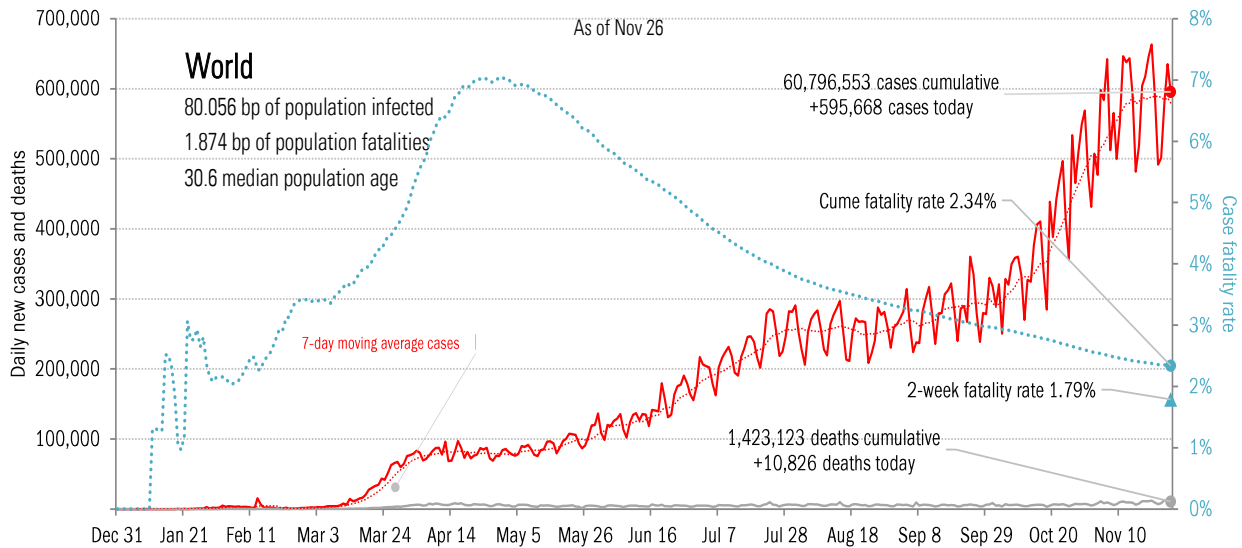
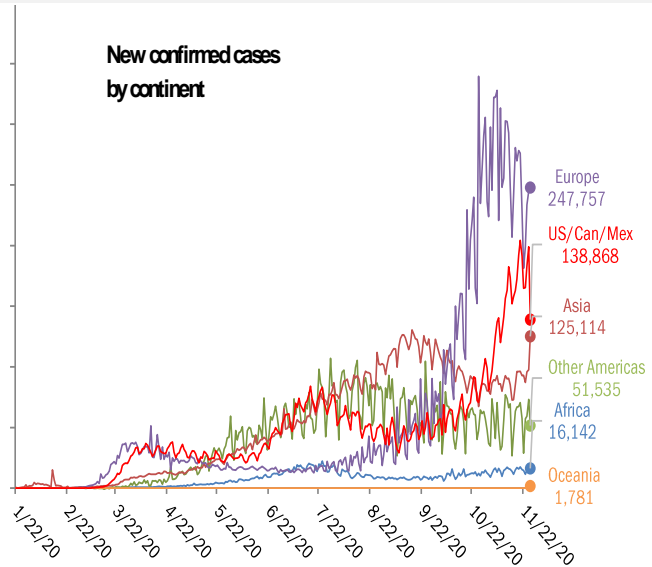


Data Insights: Covid-2019 Monitor

Friday, November 27, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+125,082	United States	+1,319
India	+43,082	Italy	+822
Brazil	+37,614	Brazil	+691
Turkey	+36,008	Mexico	+645
Italy	+29,001	Poland	+580
Russia	+25,195	Russia	+515
Germany	+21,951	United Kingdom	+498
United Kingdom	+17,557	India	+492
Poland	+16,690	Iran	+482
Ukraine	+15,623	Germany	+430
+367,803		+6,474	
World	+595,668	World	+10,826
Top ten	62%	Top ten	60%



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

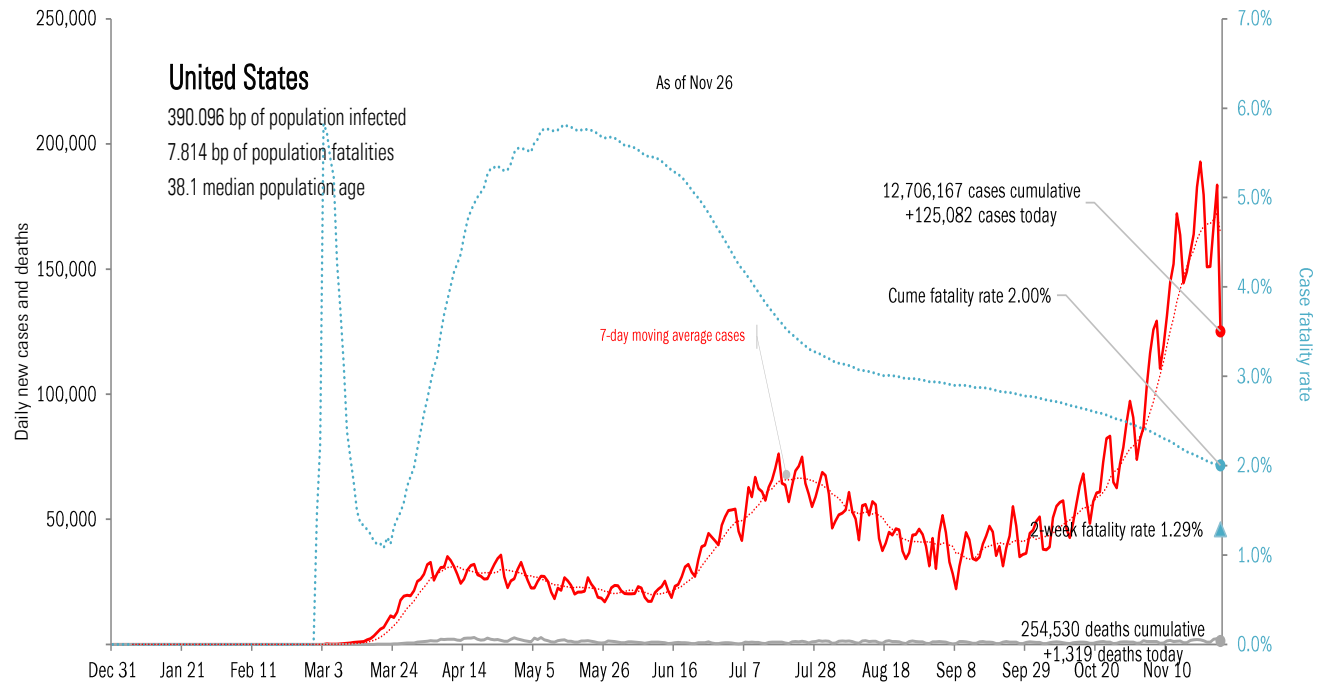
The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
CA	+14,640	TX	+206	CA	+148	CA	1,158,689	NY	26,549	NY	89,995
TX	+12,636	IL	+156	TX	+121	TX	1,143,616	TX	21,156	FL	54,813
IL	+12,022	PA	+118	PA	+97	FL	946,956	CA	18,979	NJ	40,830
PA	+8,425	CA	+104	NY	+74	IL	697,489	FL	18,482	GA	34,587
NY	+6,933	WI	+72	AZ	+72	NY	620,199	NJ	16,925	CH	25,486
IN	+6,373	NY	+67	VA	+52	GA	413,909	IL	12,596	VA	25,350
CO	+6,053	IN	+63	MO	+51	WI	398,104	MA	10,604	AZ	25,163
WI	+5,666	TN	+53	OK	+49	CH	382,743	PA	10,213	IN	24,574
NJ	+4,473	AZ	+44	MD	+47	MI	352,433	GA	9,336	AL	24,401
MO	+4,471	IA	+41	ID	+45	TN	352,376	MI	9,170	MD	20,280
+81,692		+924		+756		6,466,514		154,010		365,479	
All states	+125,082	All states	+1,319	All states	+522	All states	12,706,167	All states	254,530	All states	557,996
Top ten	65%	Top ten	70%	Top ten	145%	Top ten	51%	Top ten	61%	Top ten	65%

Some states not reporting

Five most improved US states

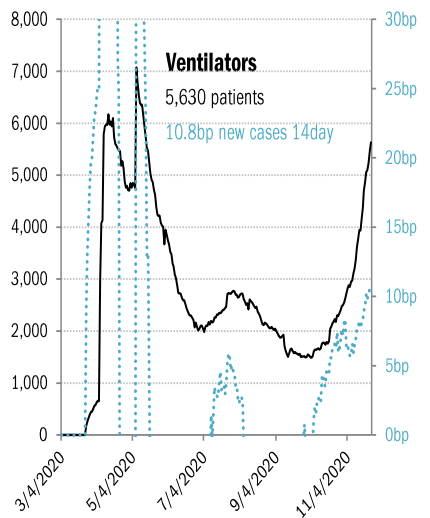
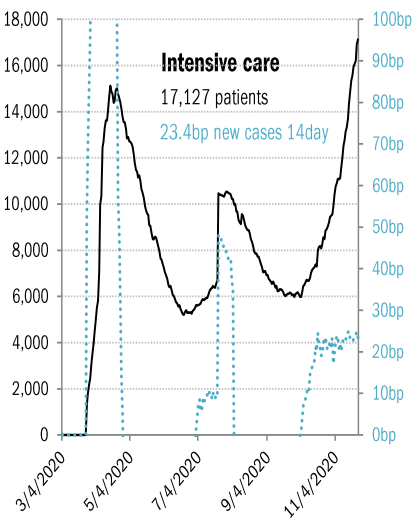
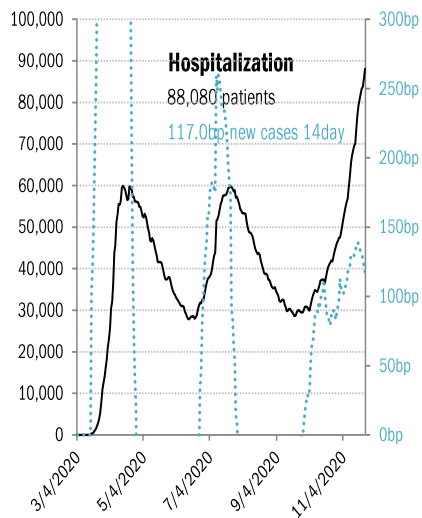
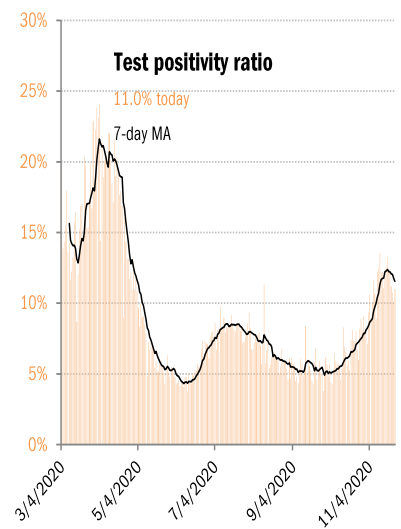
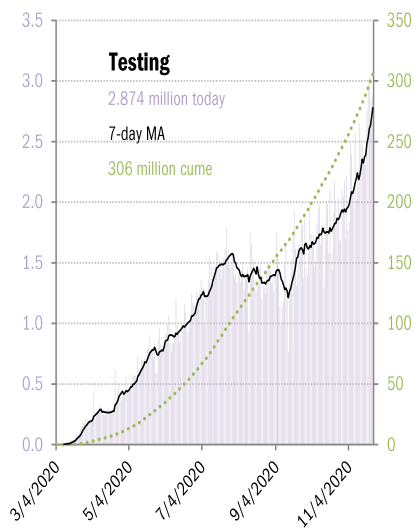
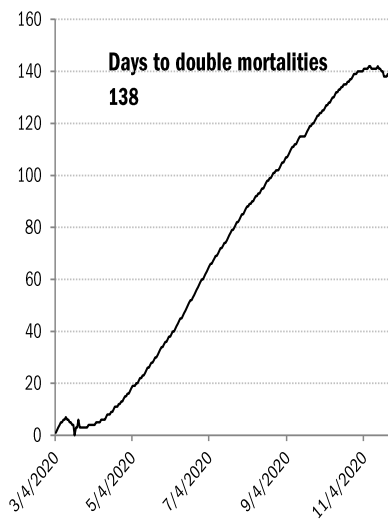
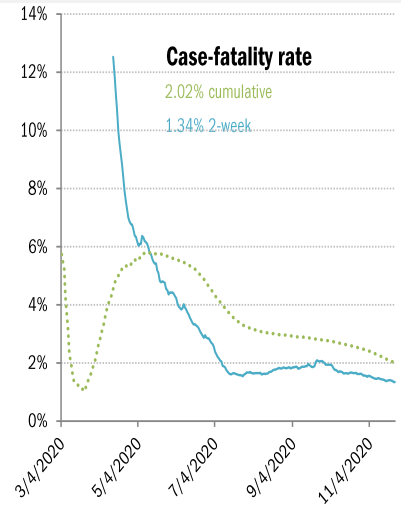
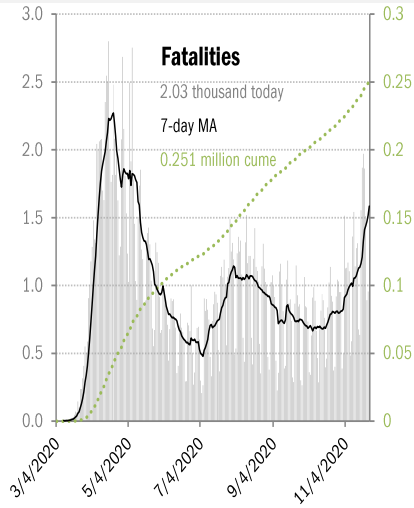
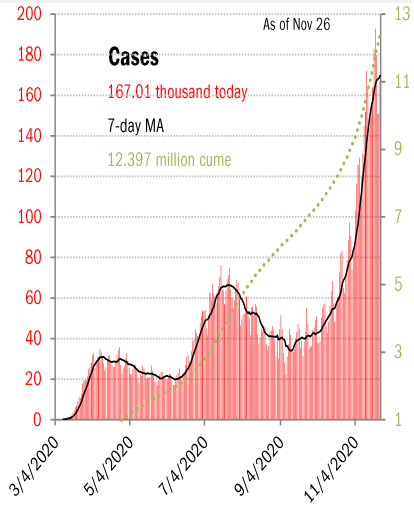
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CH	-10,835	CH	-156	CA	-260	TX	+8,446
FL	-8,126	FL	-99	KS	-230	WI	+5,608
MN	-6,387	MI	-76	NJ	-188	IN	+4,754
KS	-5,738	MN	-72	AL	-104	TN	+4,319
MI	-4,687	NC	-64	IL	-100	IA	+2,461



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

[How Trump's vaccine effort produced results at 'warp speed'](#)

Hannah Kuchler and Kiran Stacey
Financial Times
November 26, 2020

[What We Know About AstraZeneca's Head-Scratching Vaccine Results](#)

Carl Zimmer and Rebecca Robbins
New York Times
November 24, 2020

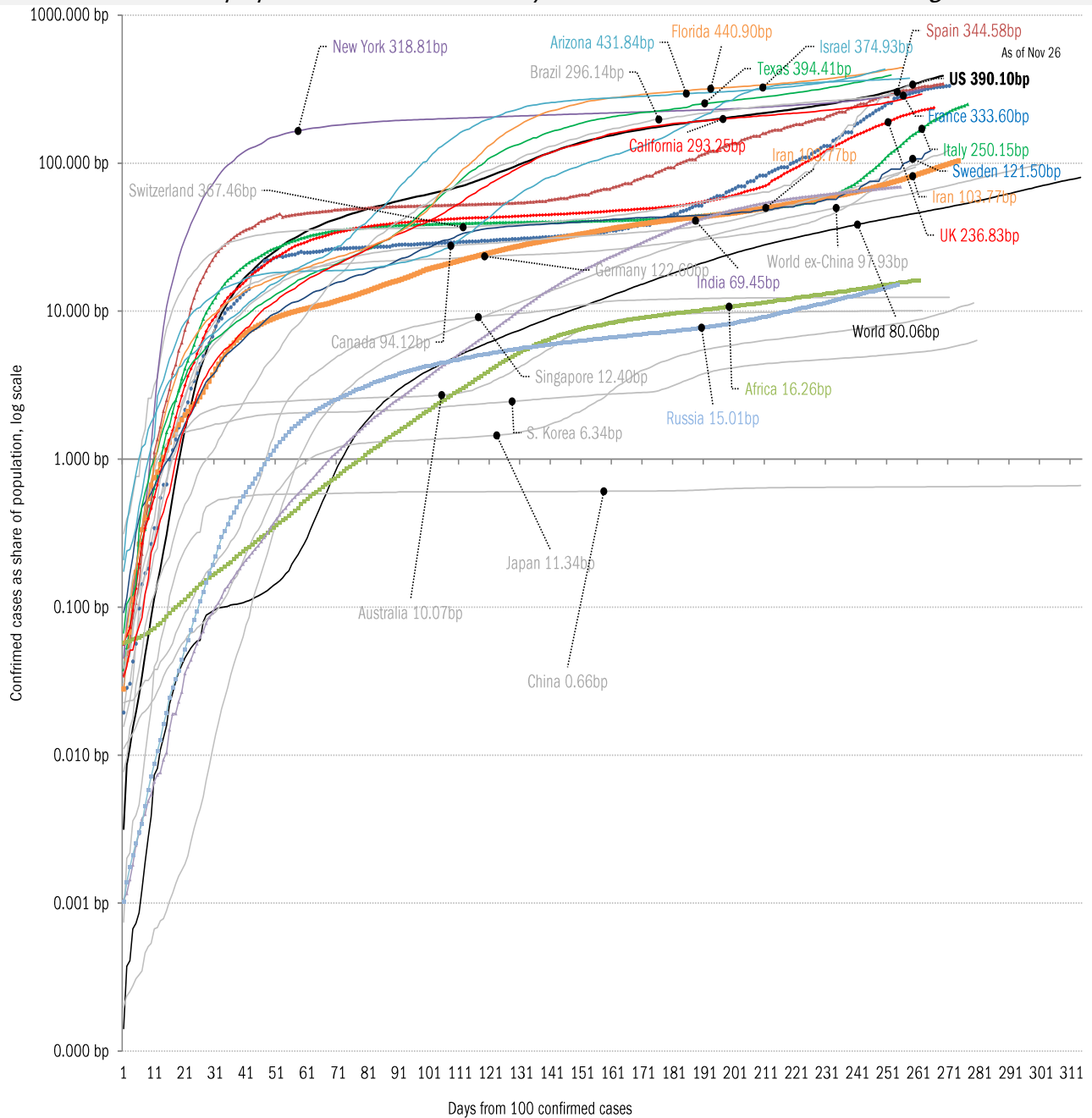
Meme of day



**State Governor Frees All Drug Dealers To
Provide Prison Space For Families Celebrating
Thanksgiving**

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

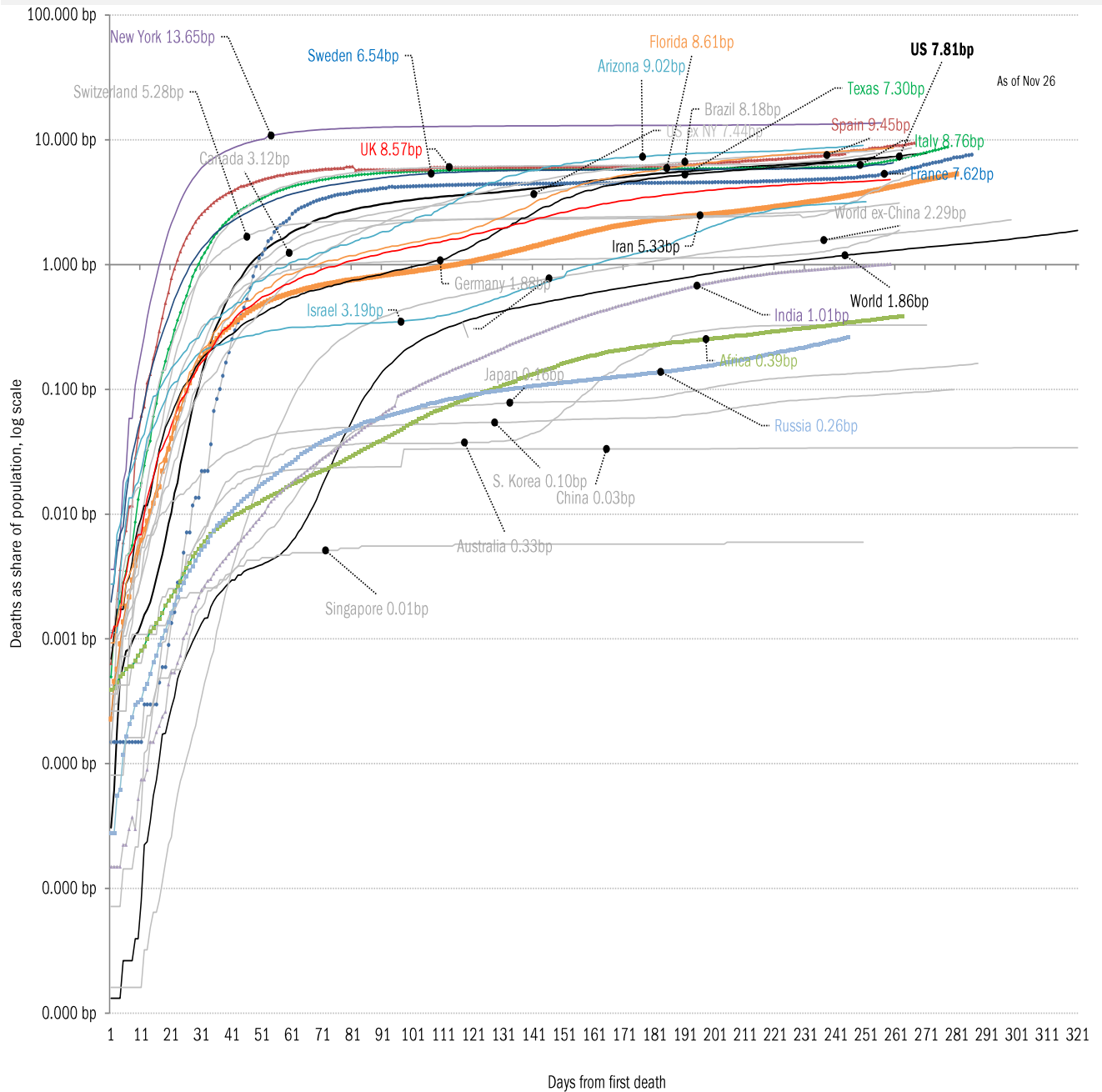
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

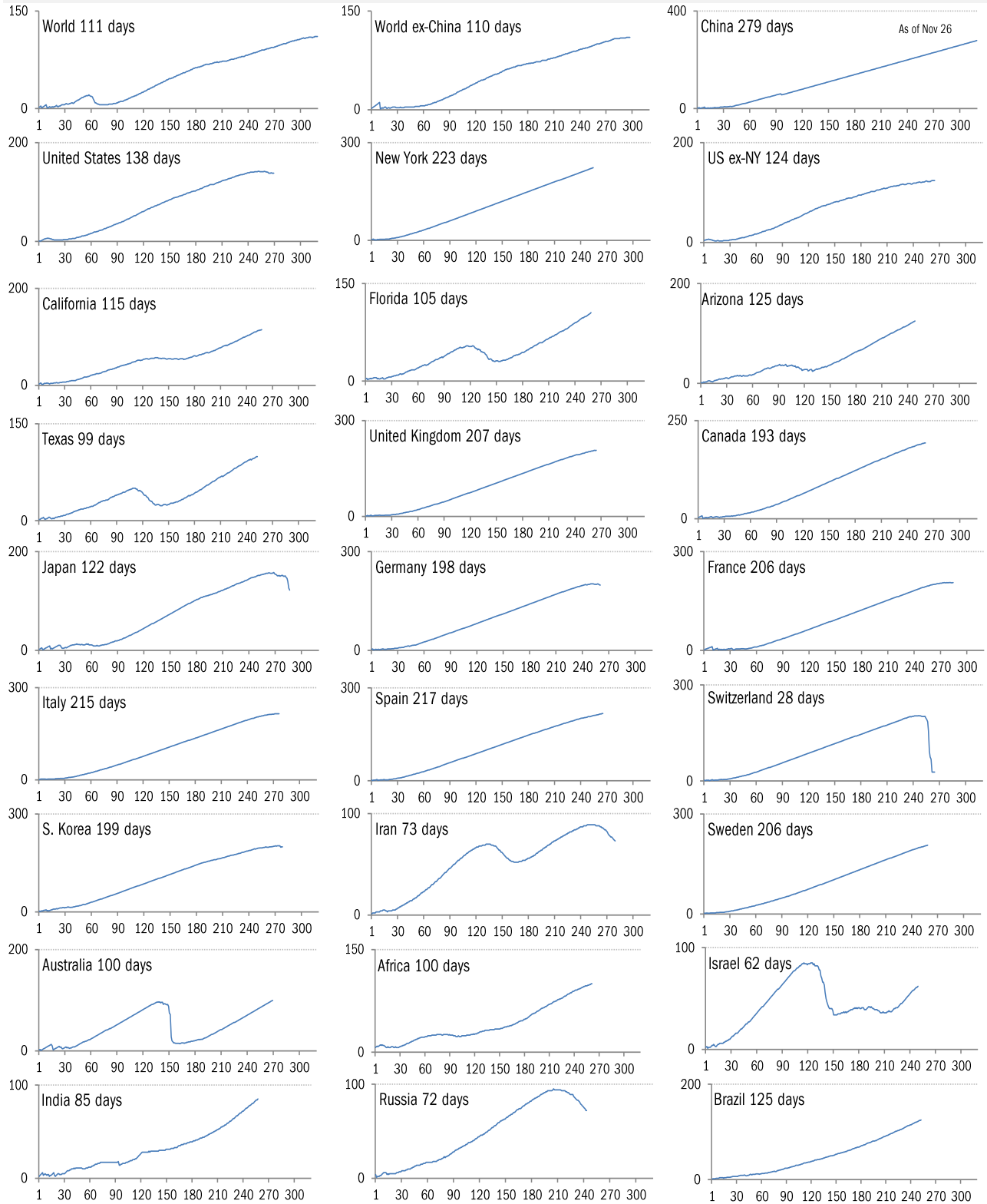


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

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

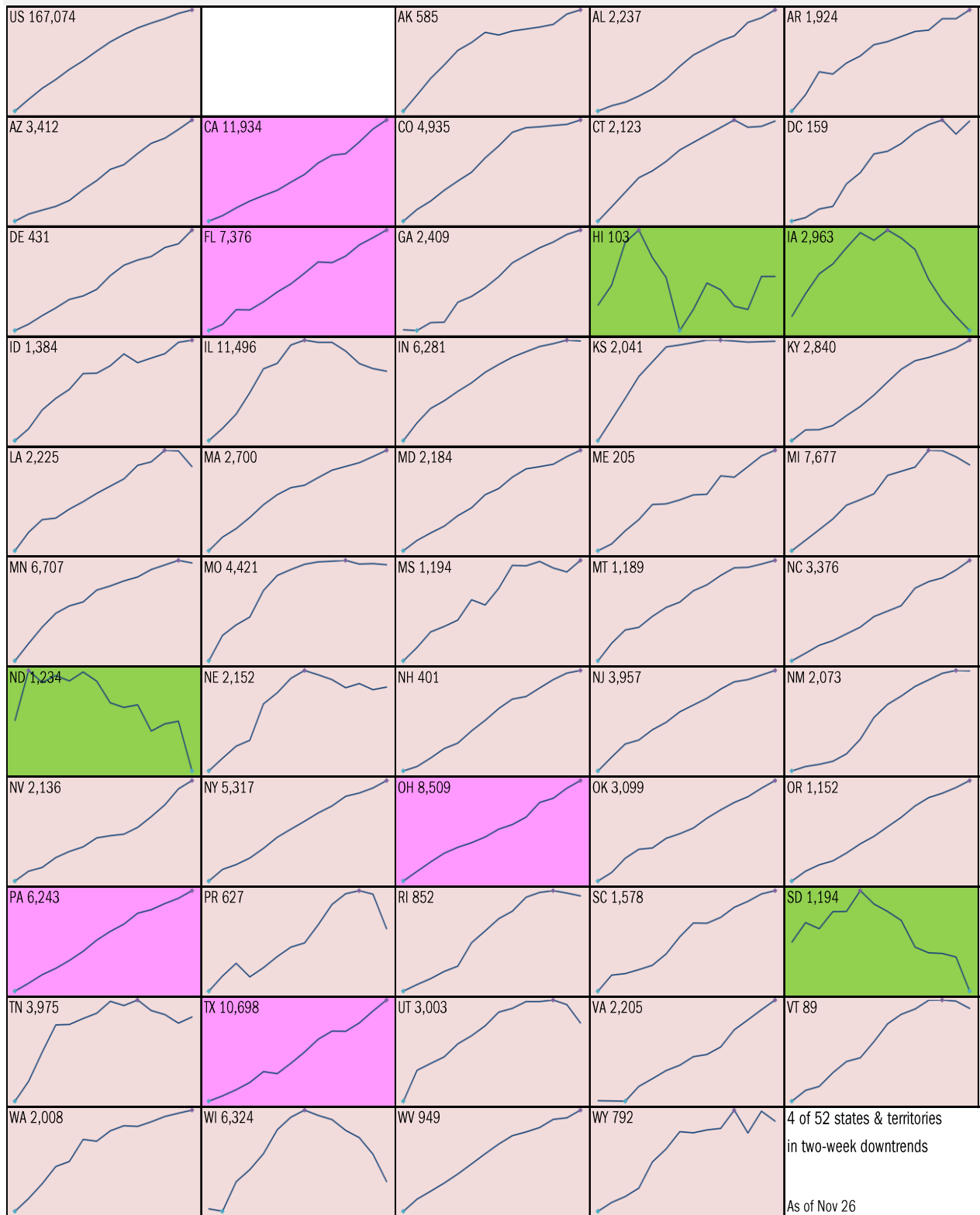


Source: [Johns Hopkins, Covid Tracking Project](#), TrendMacro calculations

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

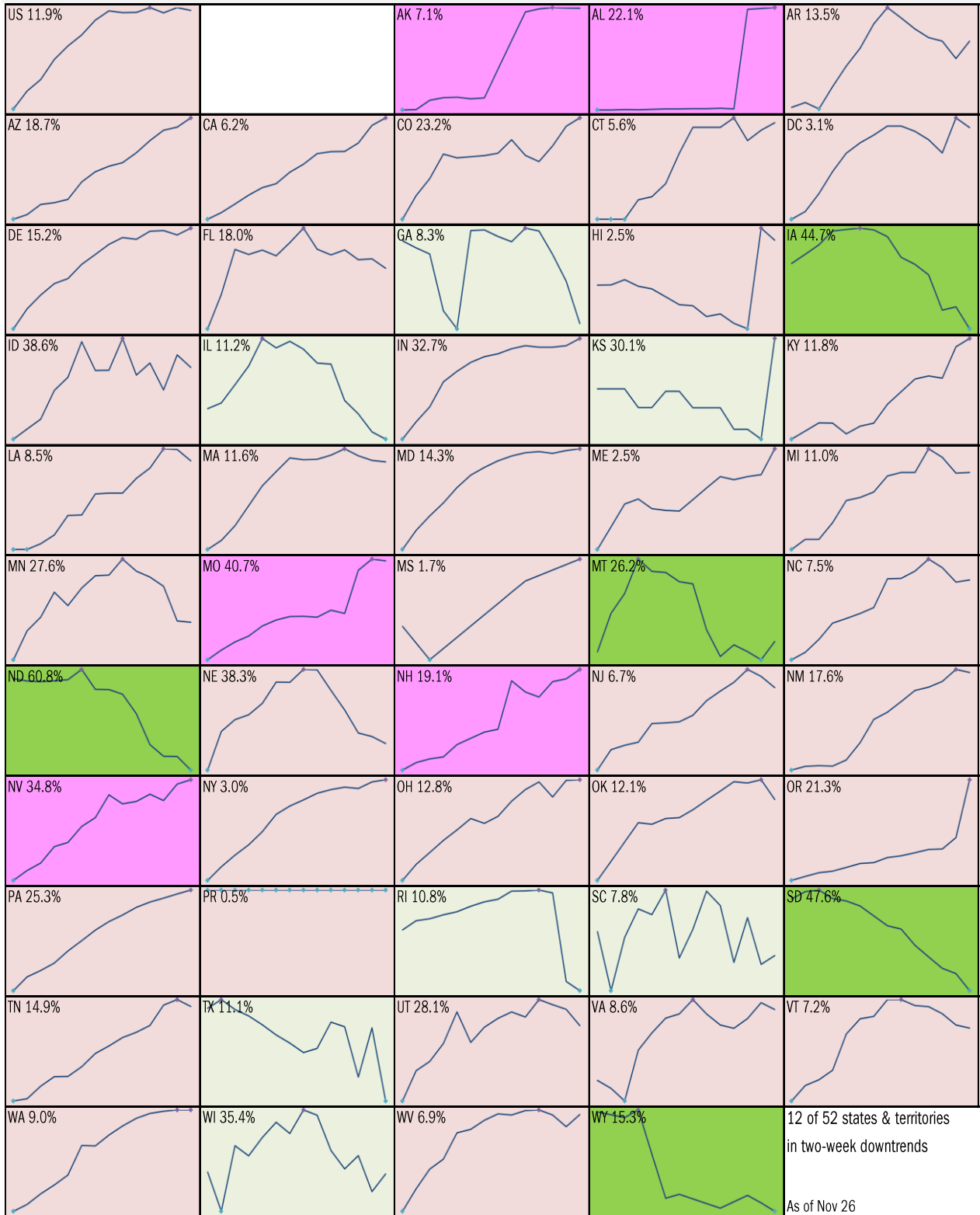


Source: [Covid Tracking Project](#), TrendMacro calculations

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



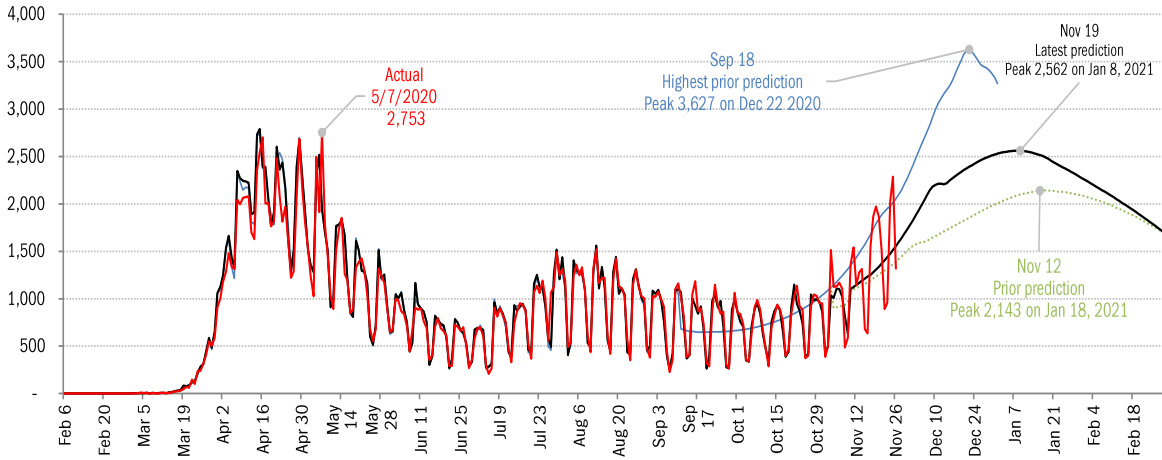
Source: [Covid Tracking Project](#), TrendMacro calculations

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

New daily fatalities

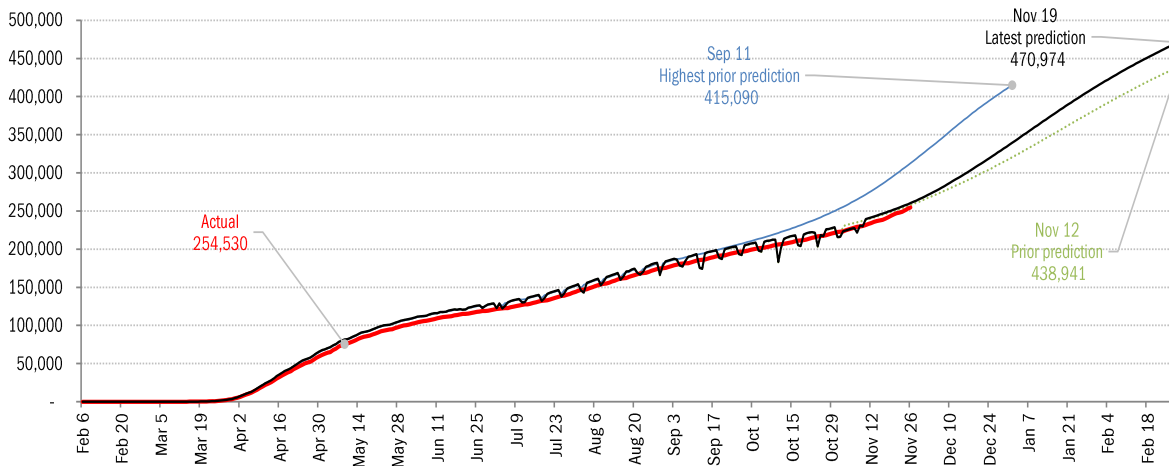
As of Nov 26

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

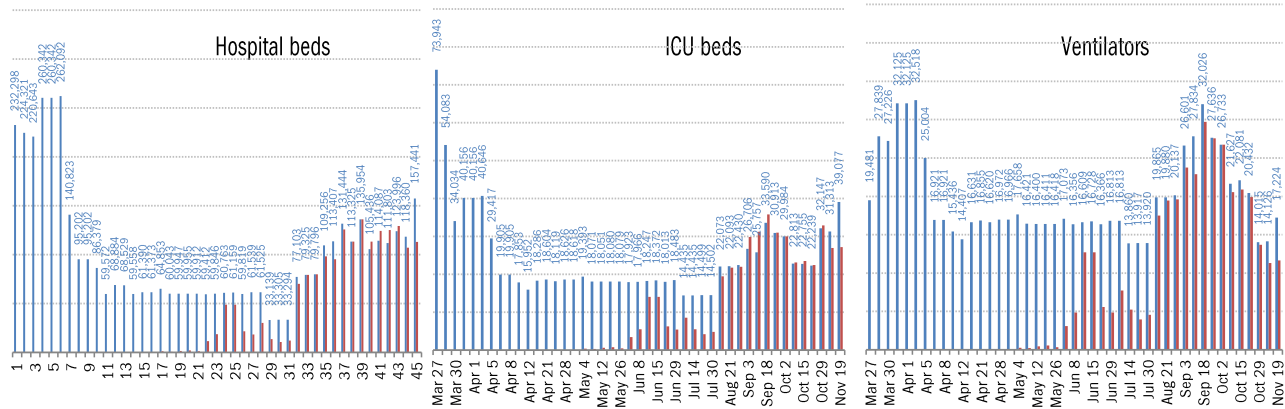


Cumulative fatalities

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

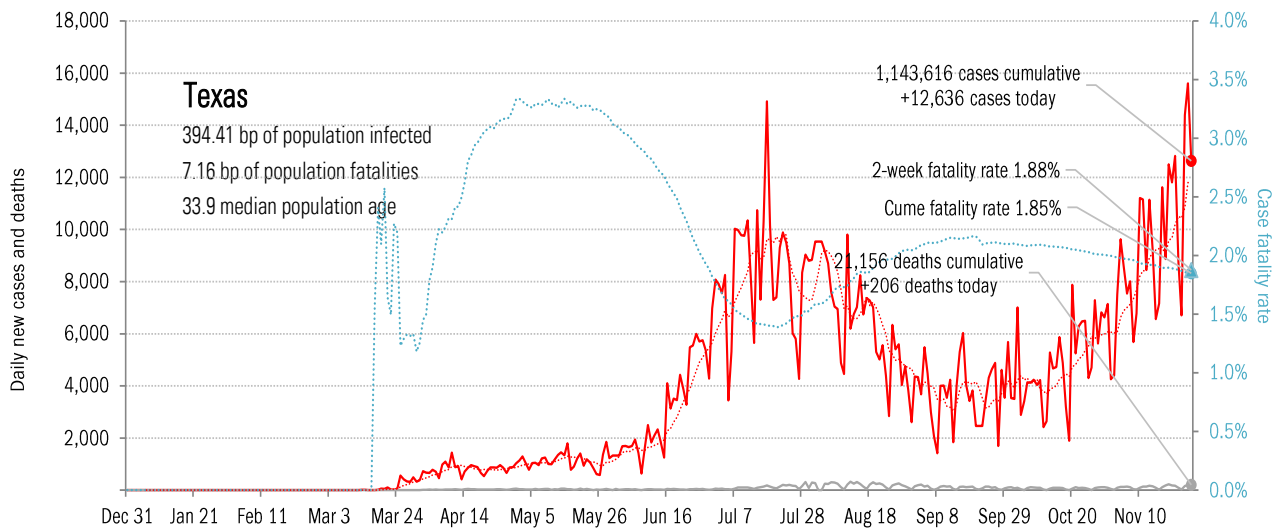
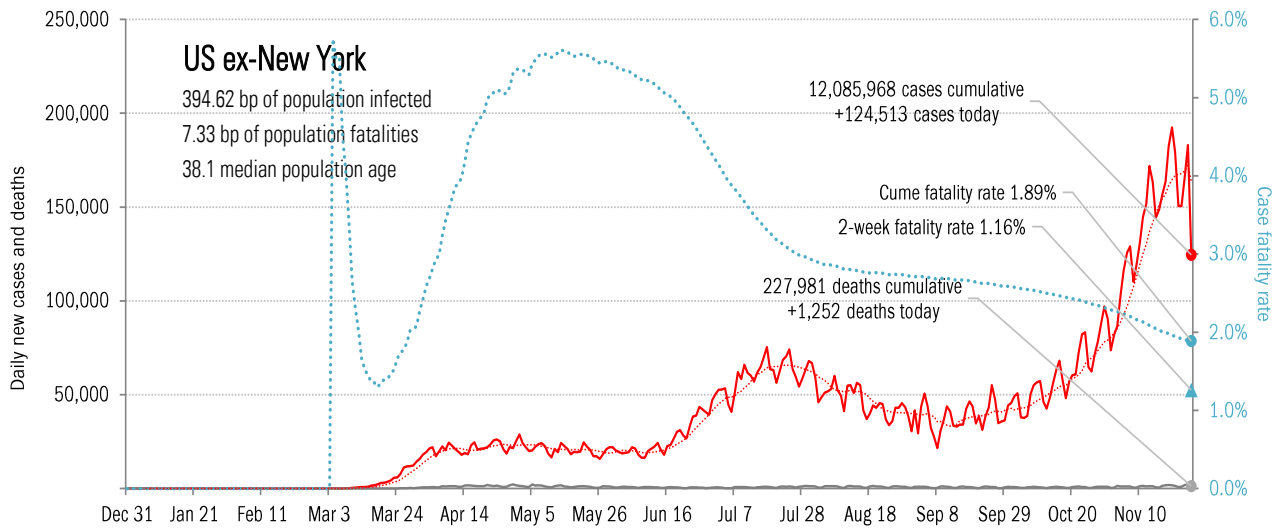
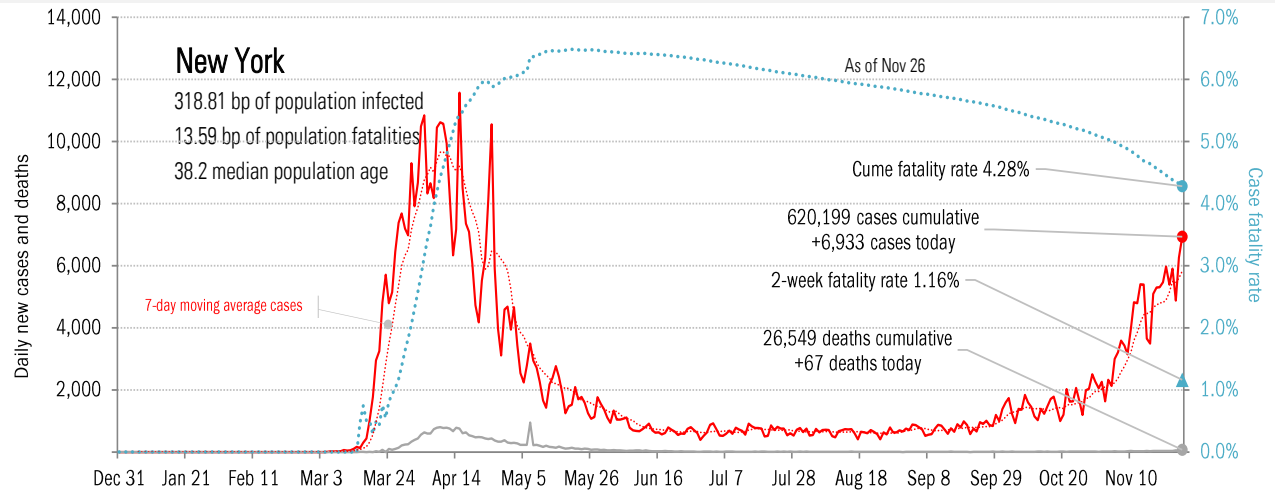


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



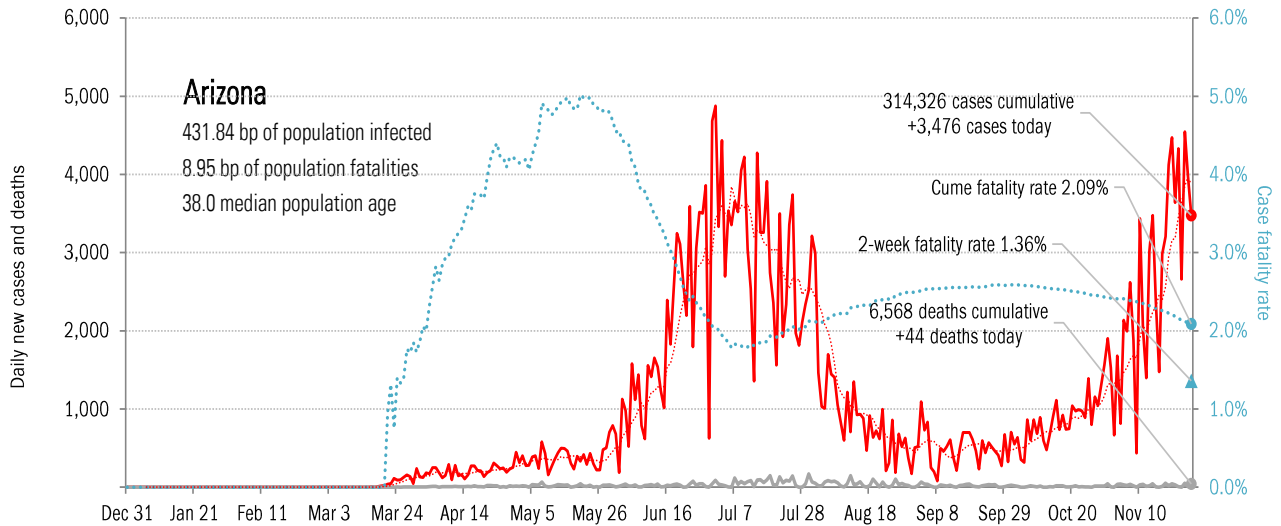
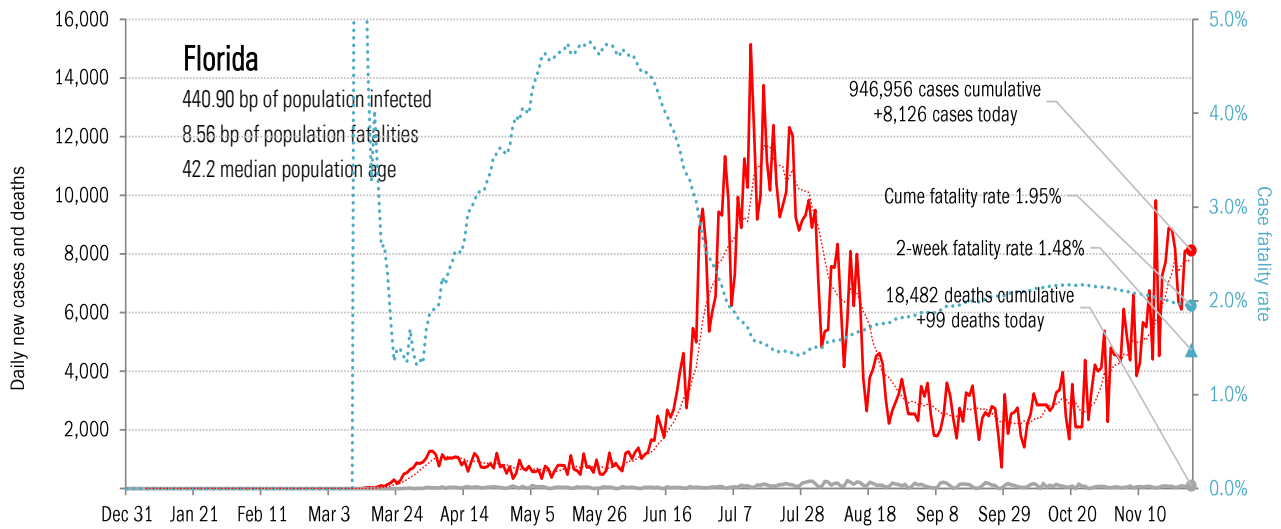
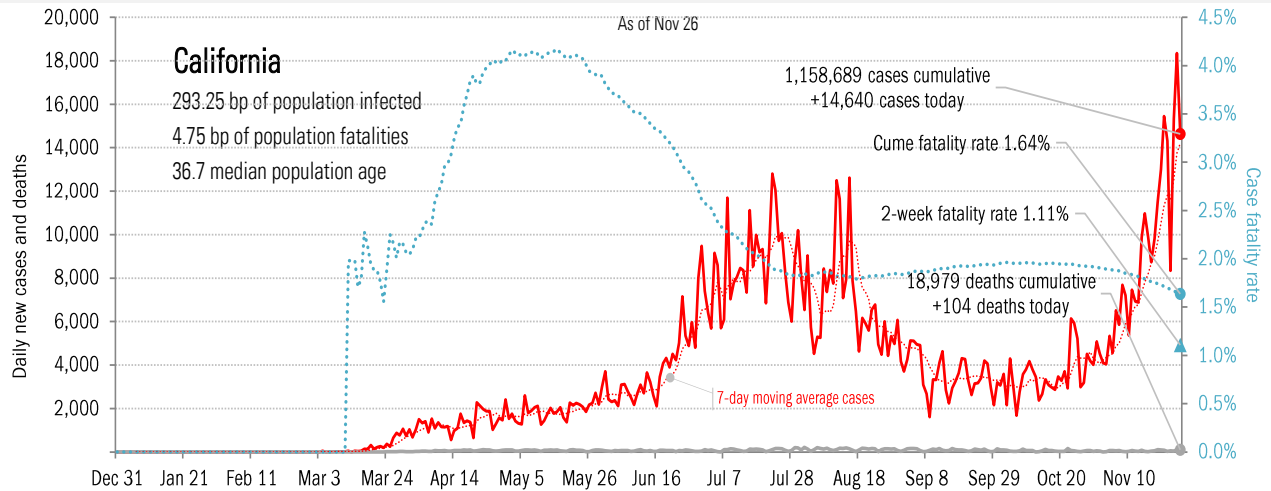
Source: [IHME](#), [Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



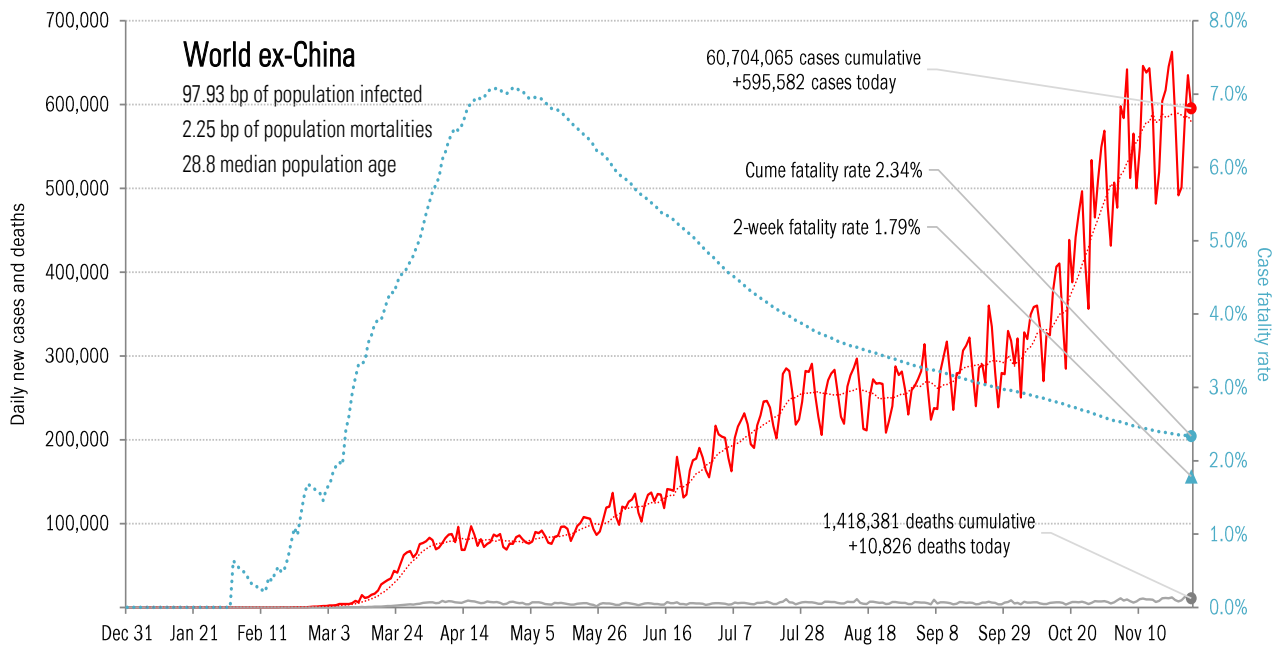
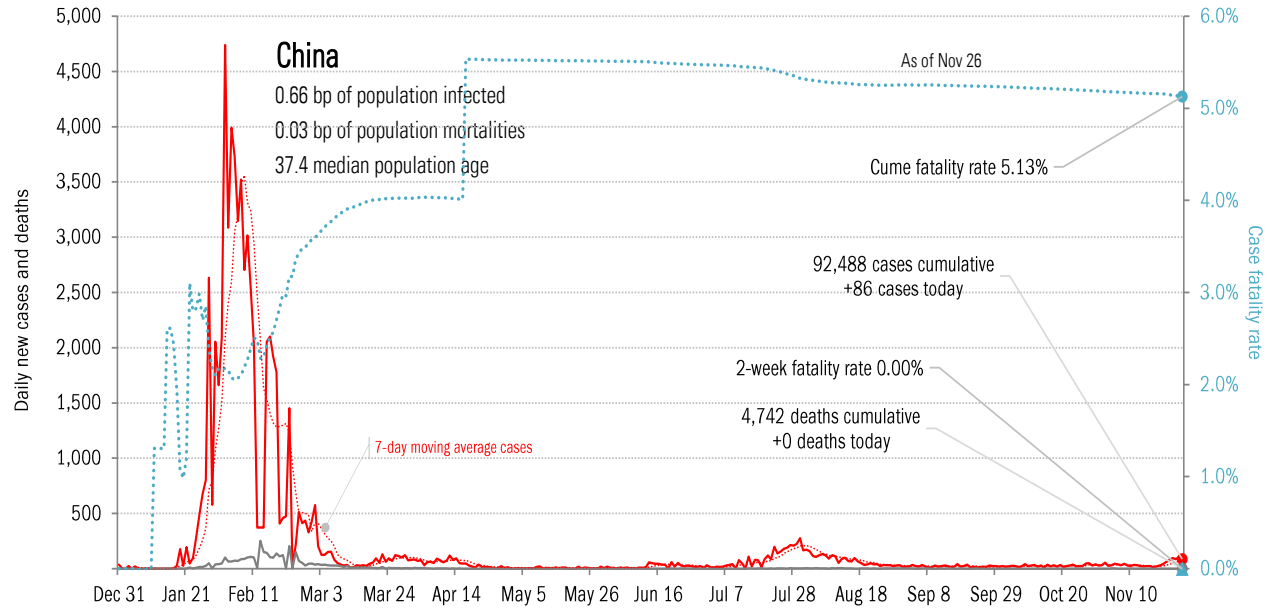
Source: [Covid Tracking Project](#), TrendMacro calculations

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



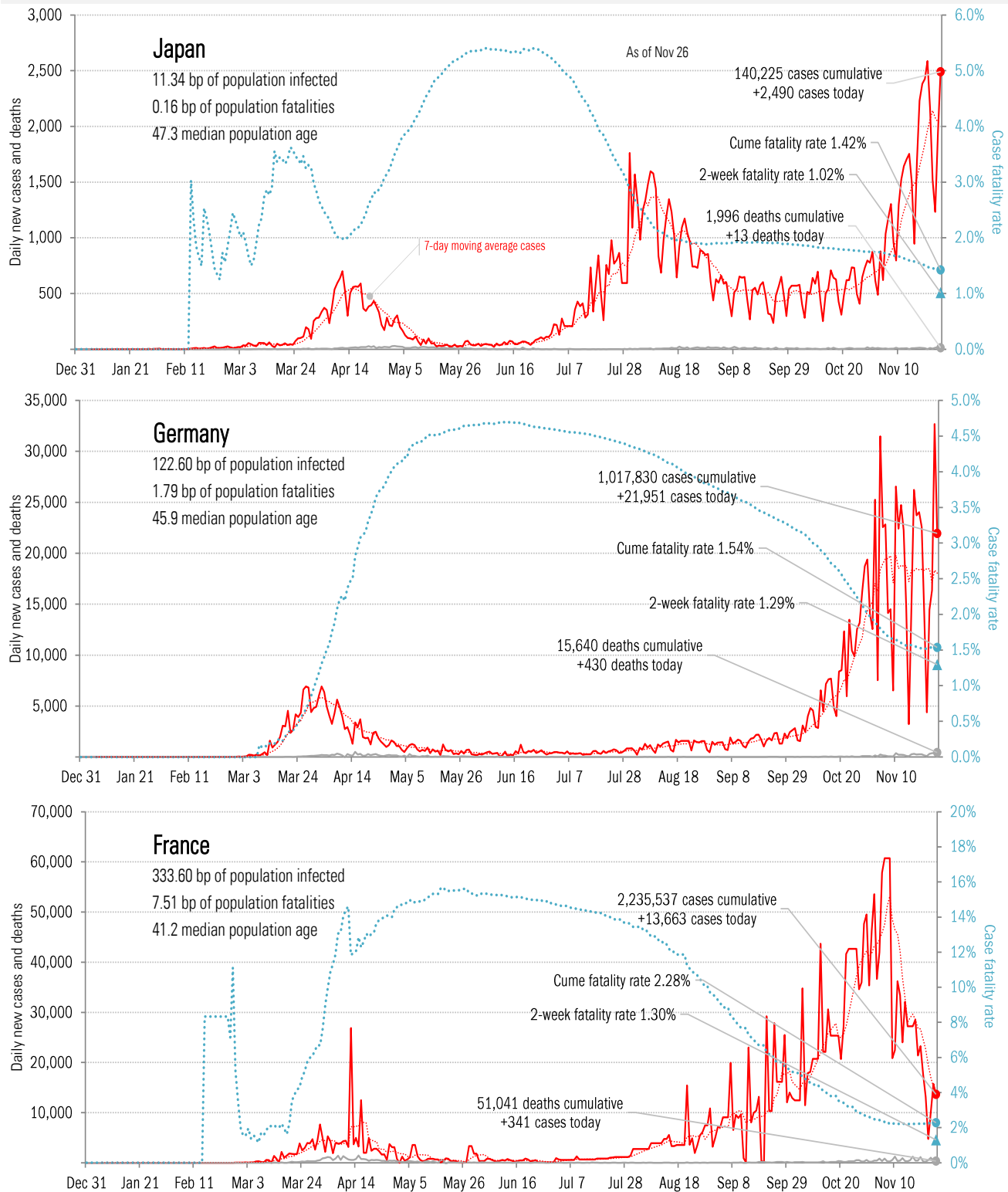
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



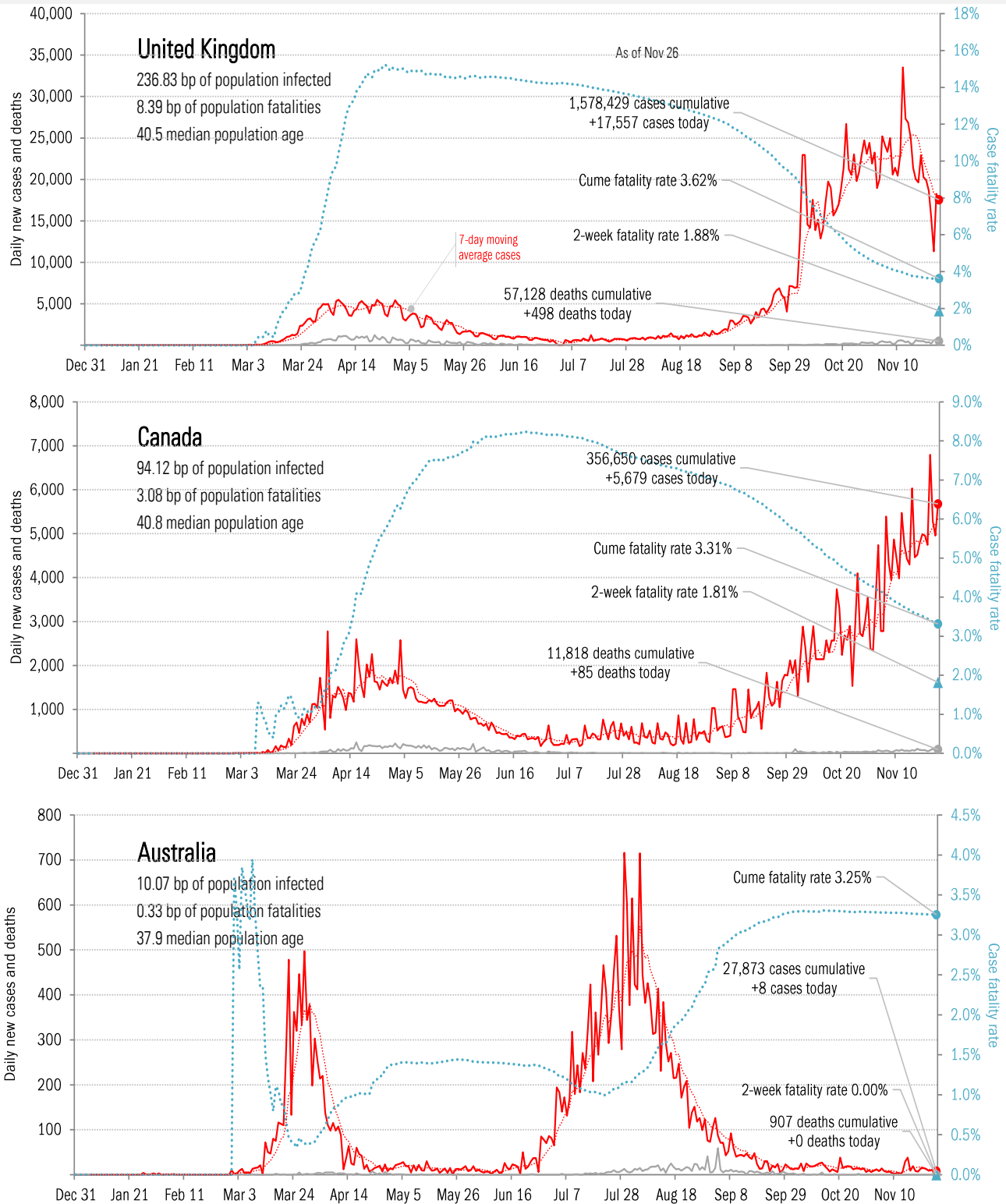
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



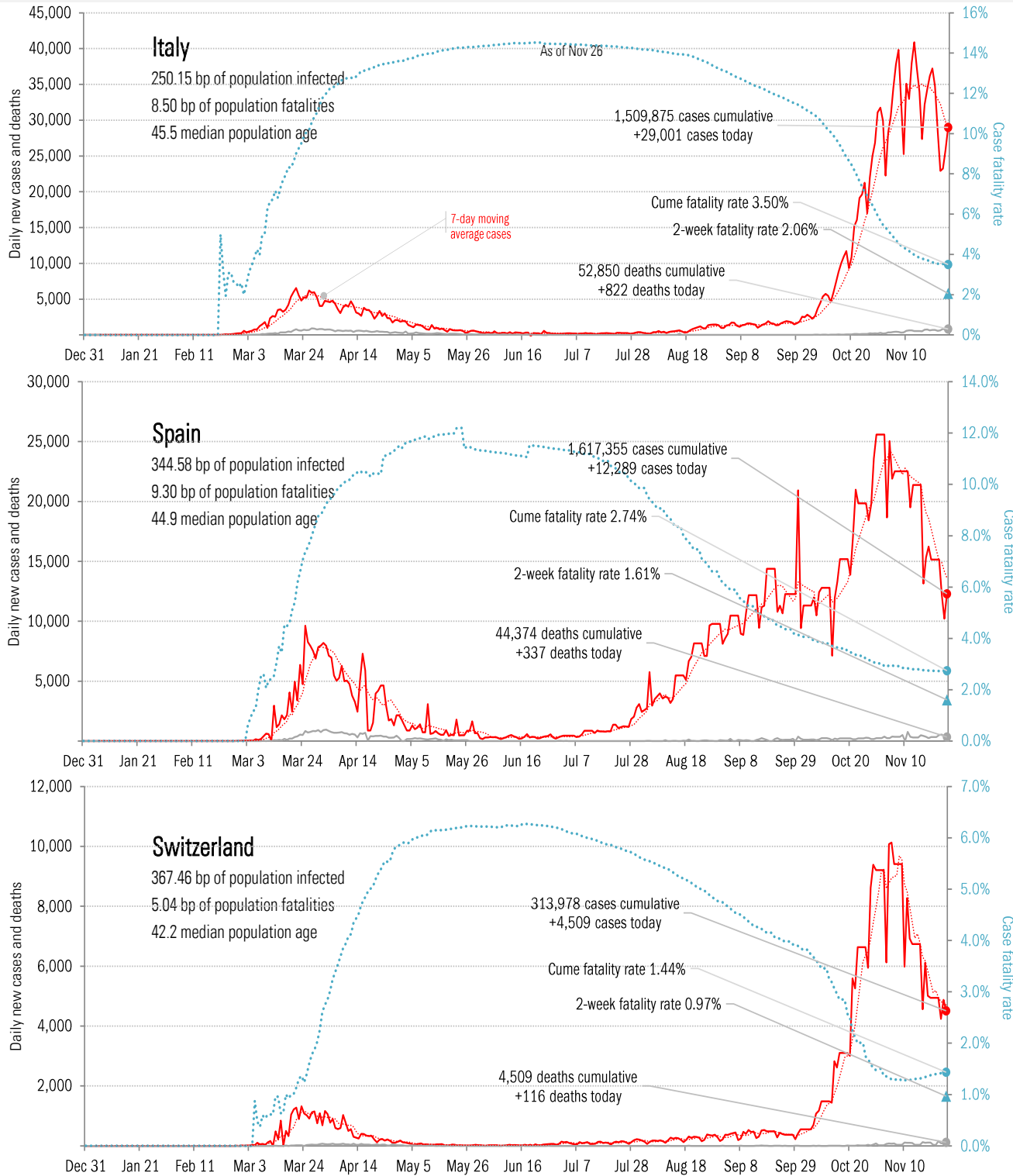
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



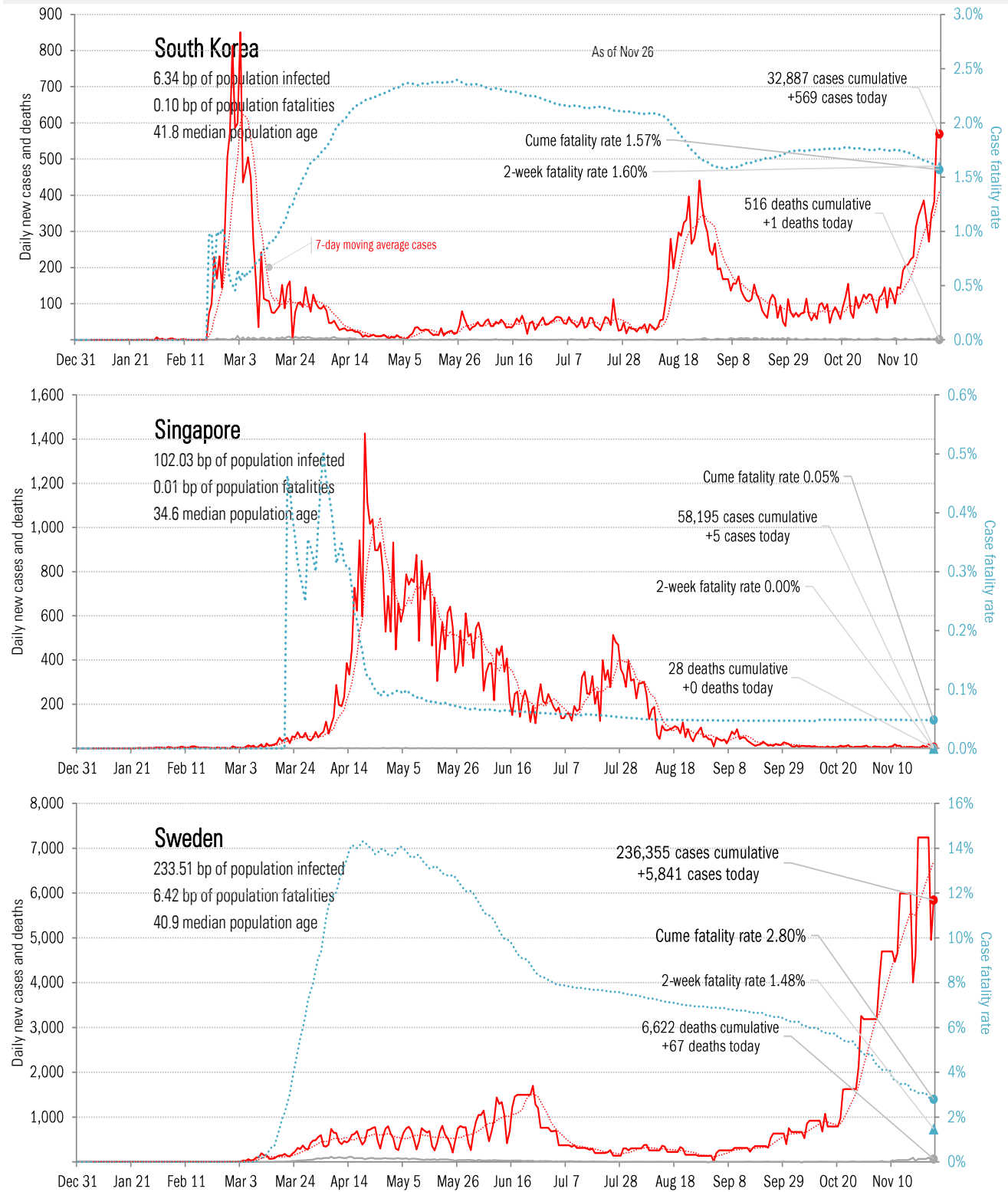
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



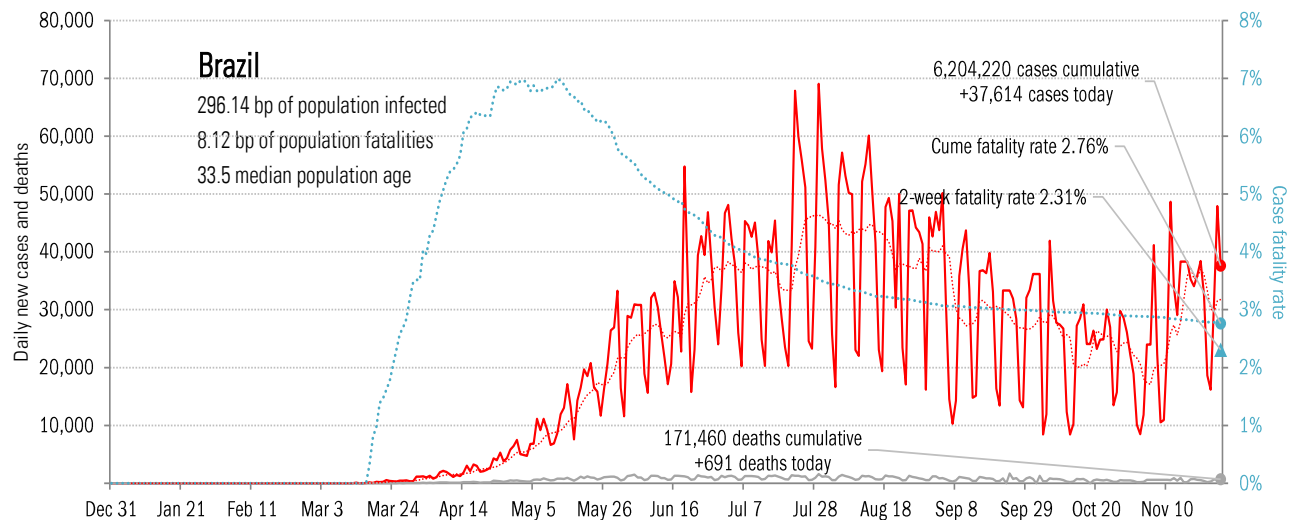
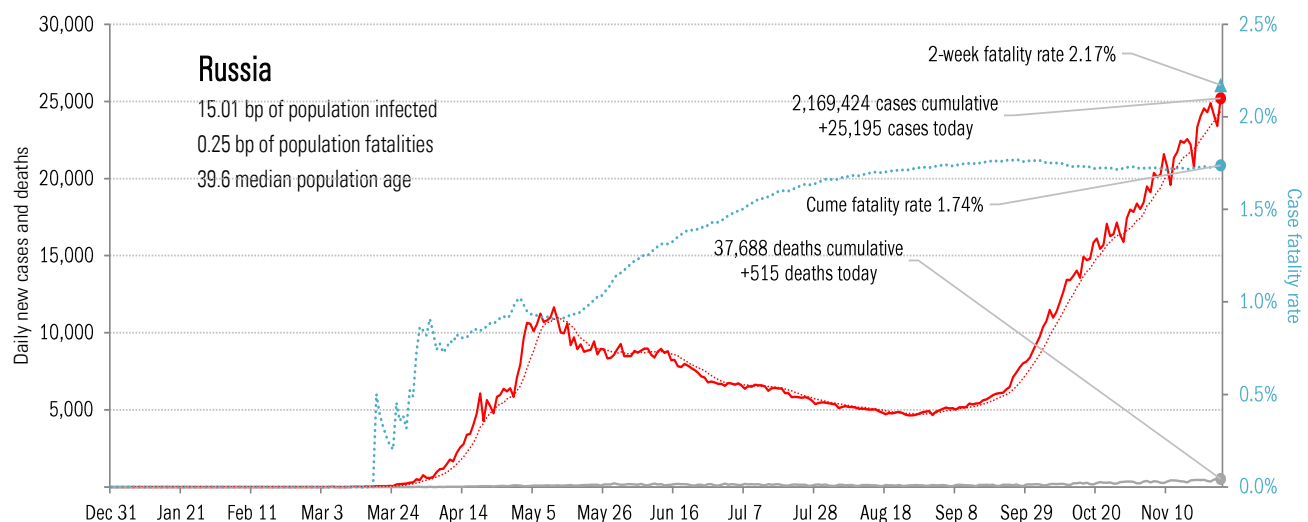
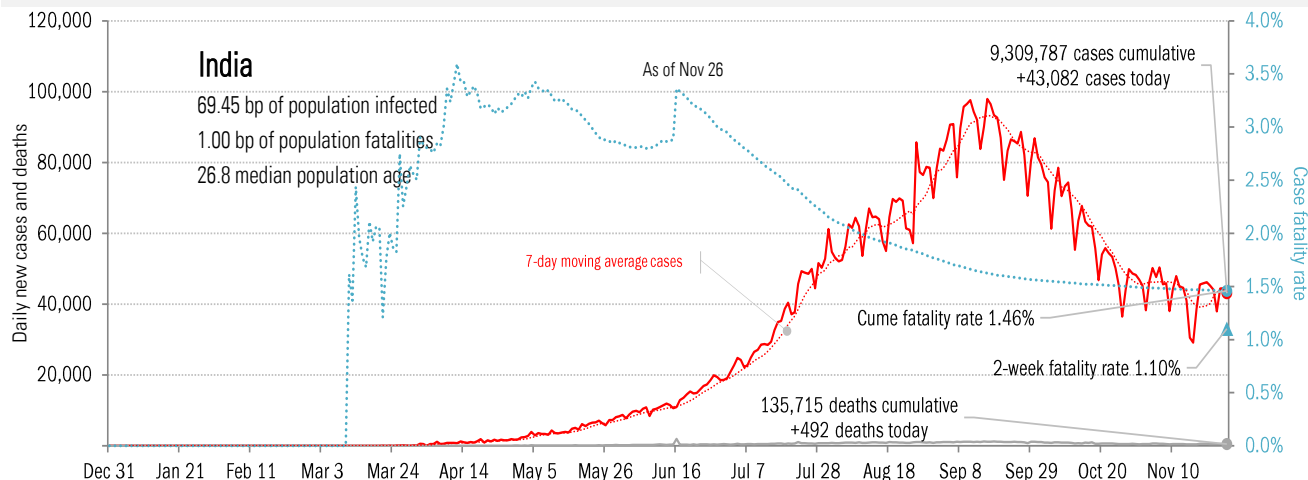
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



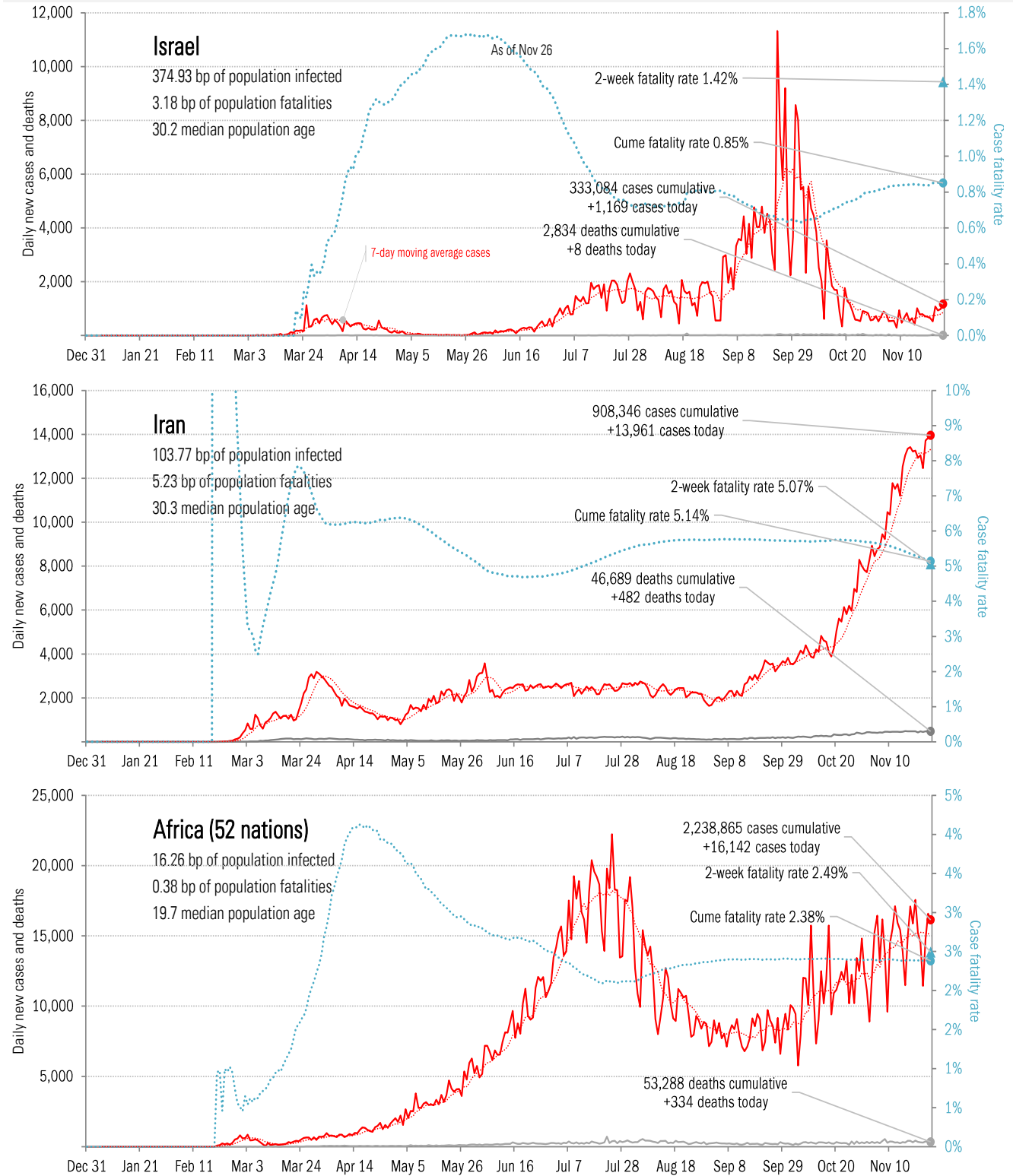
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



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

Impact in the Middle East and Africa



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