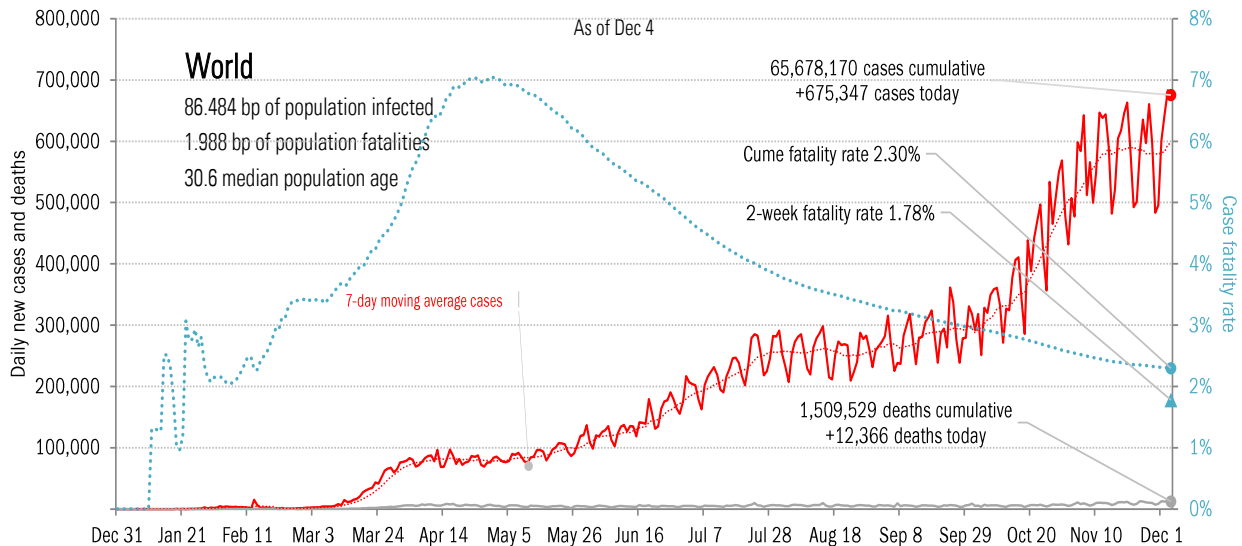
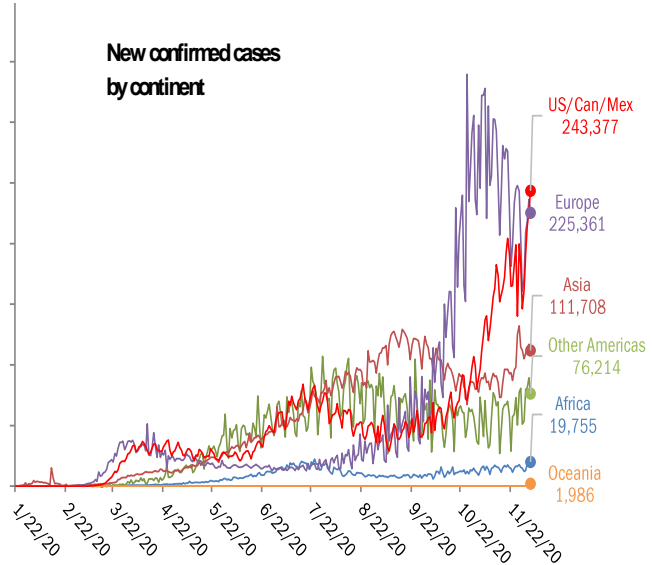


Data Insights: Covid-2019 Monitor

Saturday, December 5, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+224,831	United States	+2,563
Brazil	+46,884	Italy	+814
India	+36,652	Brazil	+694
Turkey	+32,736	Mexico	+690
Russia	+27,078	France	+628
Italy	+24,110	Russia	+557
United Kingdom	+16,382	Poland	+531
Germany	+15,970	India	+512
Ukraine	+15,456	United Kingdom	+504
Iran	+13,341	Germany	+480
+453,440		+7,973	
World	+675,347	World	+12,366
Top ten	67%	Top ten	64%



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

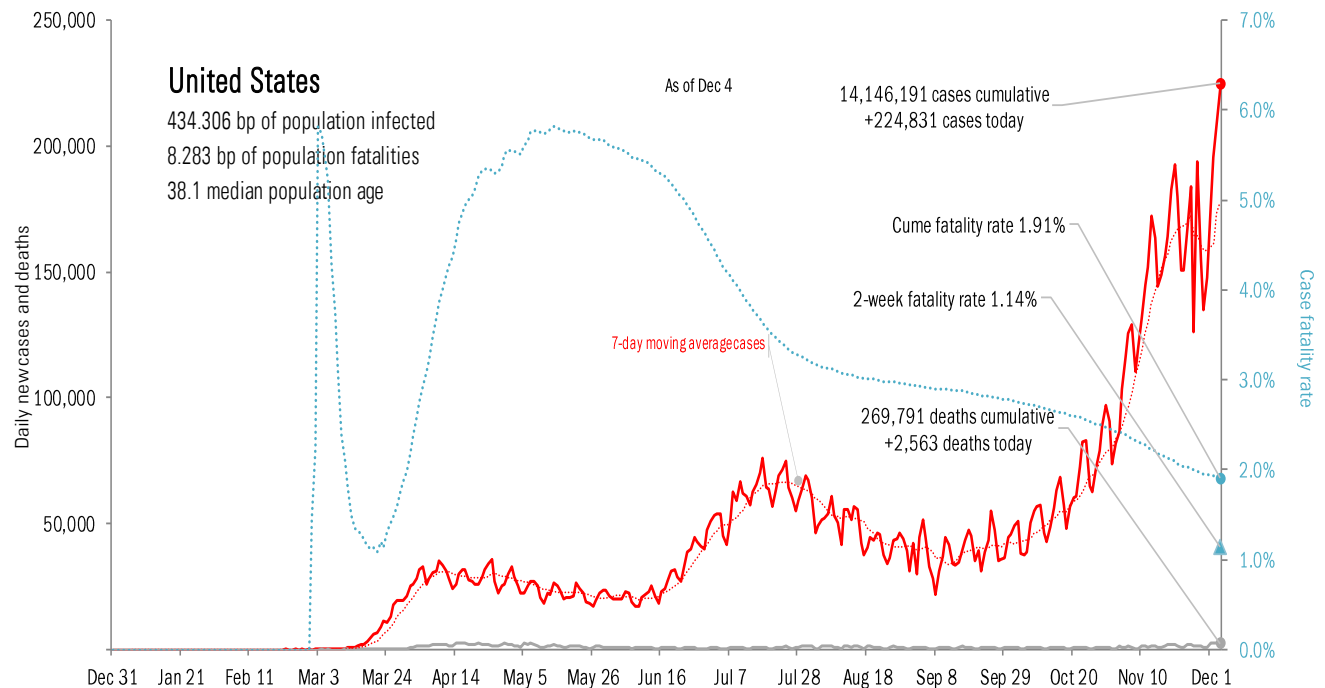
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
CA	+22,018	TX	+255	KS	+289	CA	1,286,557	NY	27,017	NY	89,995
TX	+13,699	PA	+169	CA	+246	TX	1,228,812	TX	22,255	FL	56,809
PA	+11,763	IL	+157	NY	+159	FL	1,022,354	CA	19,582	NJ	42,163
NY	+11,271	CA	+145	PA	+159	IL	770,088	FL	19,236	GA	35,783
IL	+10,526	CH	+129	AZ	+156	NY	685,364	NJ	17,255	CH	28,673
CH	+10,114	FL	+124	MA	+70	CH	456,963	IL	13,782	AZ	27,738
FL	+9,898	KS	+107	GA	+58	GA	438,300	PA	11,113	IN	27,672
MI	+9,425	TN	+95	NC	+56	WI	432,207	MA	10,910	AL	26,331
IN	+7,899	IN	+89	TN	+50	MI	420,268	MI	10,117	MD	21,756
KS	+6,234	IA	+83	AL	+48	PA	398,600	GA	9,725	WI	17,943
+112,847		+1,353		+1,291		7,139,513		160,992		374,863	
All states	+224,831	All states	+2,563	All states	+521	All states	14,146,191	All states	269,791	All states	580,104
Top ten	50%	Top ten	53%	Top ten	248%	Top ten	50%	Top ten	60%	Top ten	65%

Some states not reporting

Five most improved US states

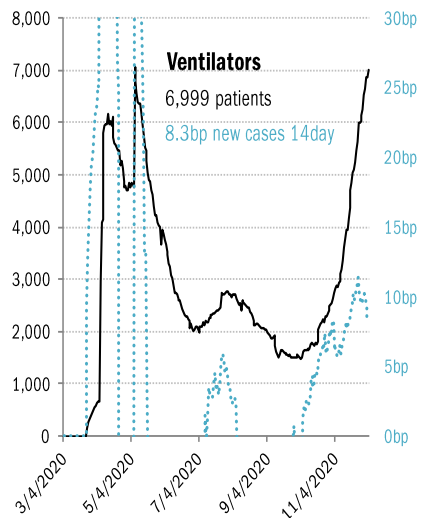
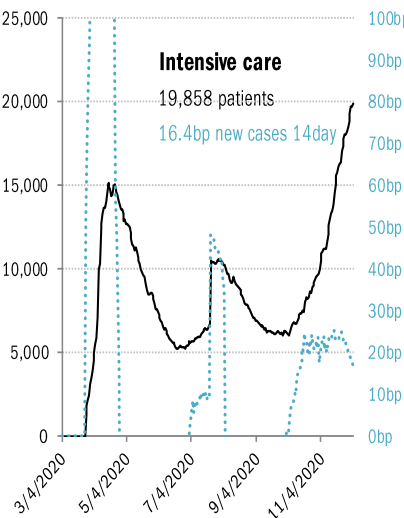
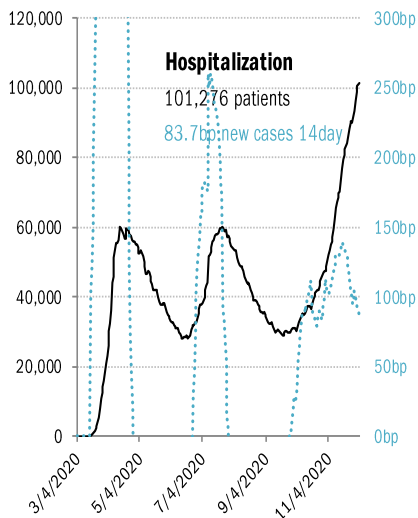
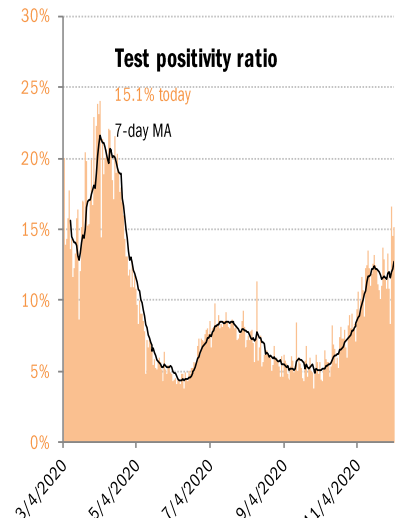
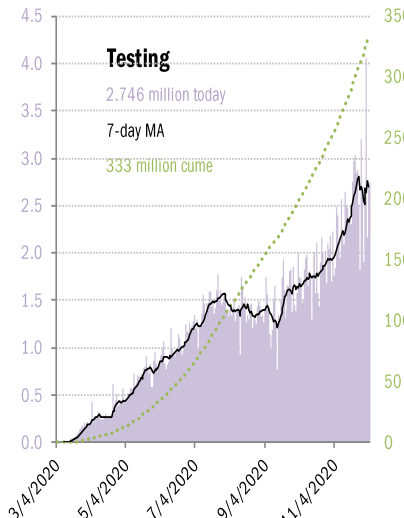
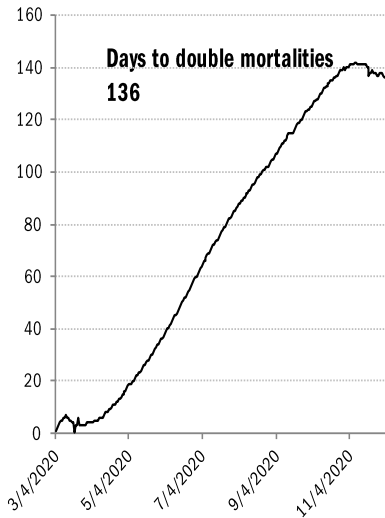
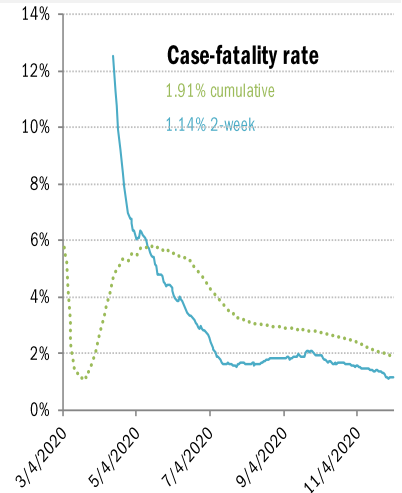
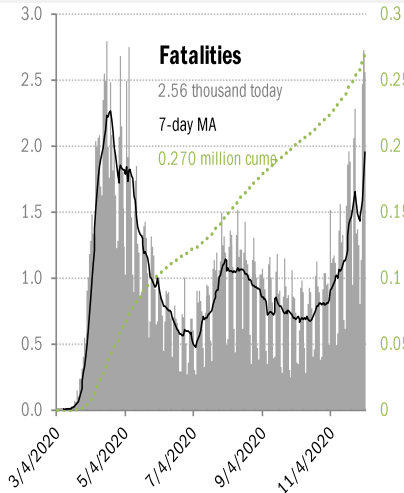
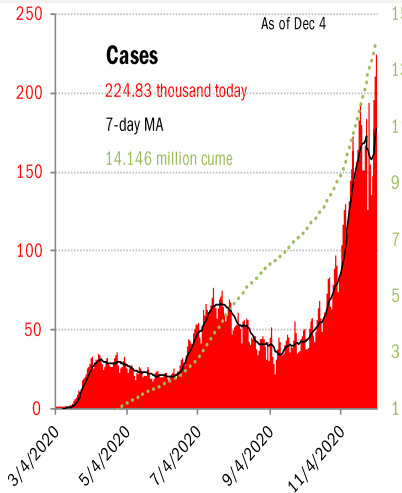
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CT	-3,213	MI	-111	TX	-178	TX	+9,559
MA	-1,184	IL	-71	MN	-157	CH	+8,618
WA	-1,031	MO	-39	SC	-134	WI	+6,228
CO	-1,024	MN	-31	CA	-91	IN	+5,421
UT	-940	WY	-27	IL	-89	IA	+5,162



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

US deep-dive

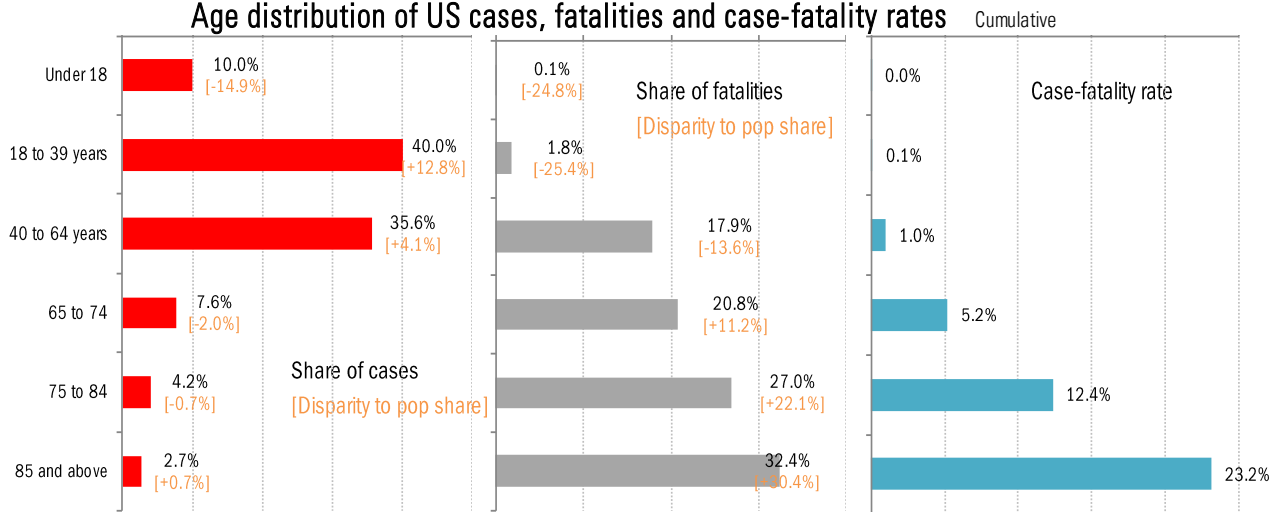
National and state-by-state data do not line up because of different sources



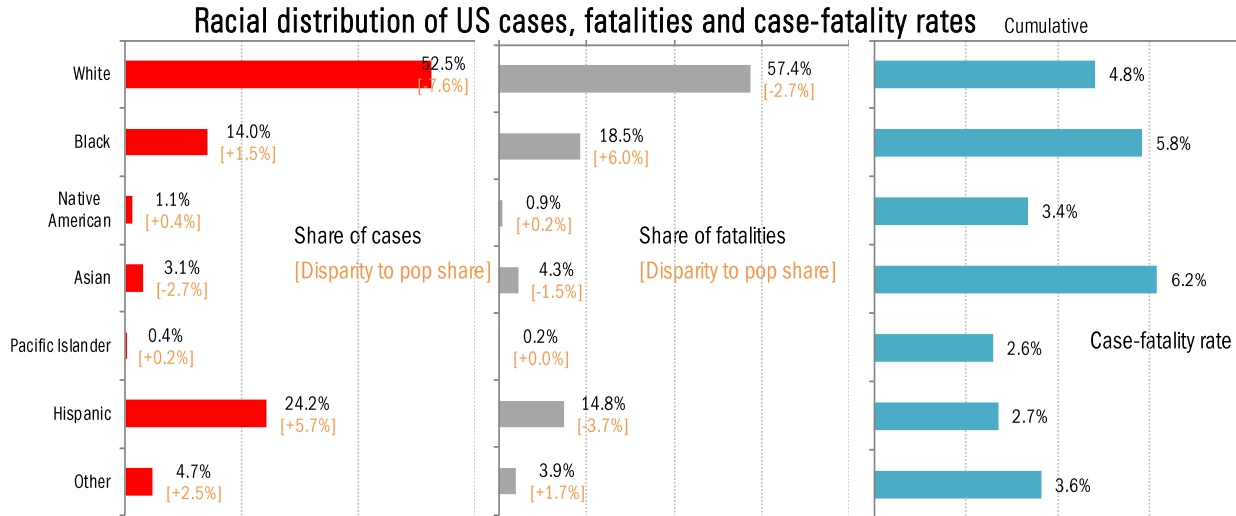
Source: [Covid Tracking Project](https://covidtracking.com), TrendMacro calculations

US deep-dive on the demographics of age, race and health

Age distribution of US cases, fatalities and case-fatality rates

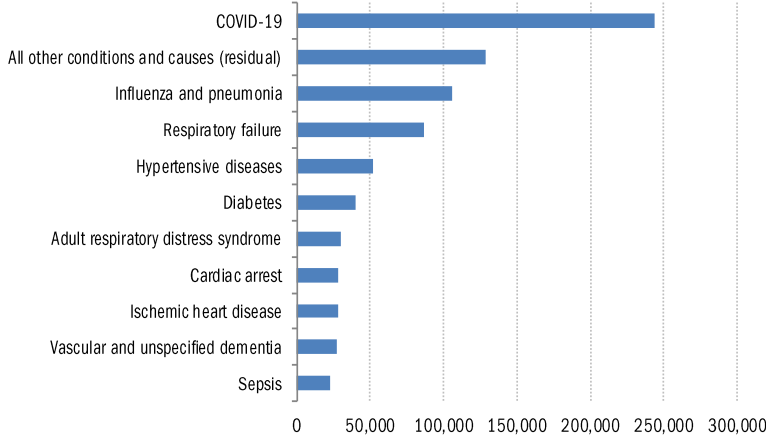


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



For 6% of the deaths, COVID-19 was the only cause mentioned. For deaths with conditions or causes in addition to COVID-19, on average, there were 2.6 additional conditions or causes per death.

Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

Recommended reading

[The start of it all: Wuhan's crisis](#)

The Economist
December 5, 2020

[Oregon's Segregated Covid Relief Fund Is Blatantly Unconstitutional](#)

James Huffman
Wall Street Journal
December 4, 2020

[IBM uncovers global email attack on Covid vaccine supply chain](#)

Noah Higgins-Dunn
CNBC
December 3, 2020

[Angry parents won't let officials slide over closed playgrounds, packed malls](#)

Hailey Branson-Potts
Los Angeles Times
December 3, 2020

[Why is All Covid-19 News Bad News?](#)

Bruce Sacerdote et al.
National Bureau of Economic Research
November 2020

[Ivy League Study Shows How US Media Created a Climate of Fear Over COVID-19](#)

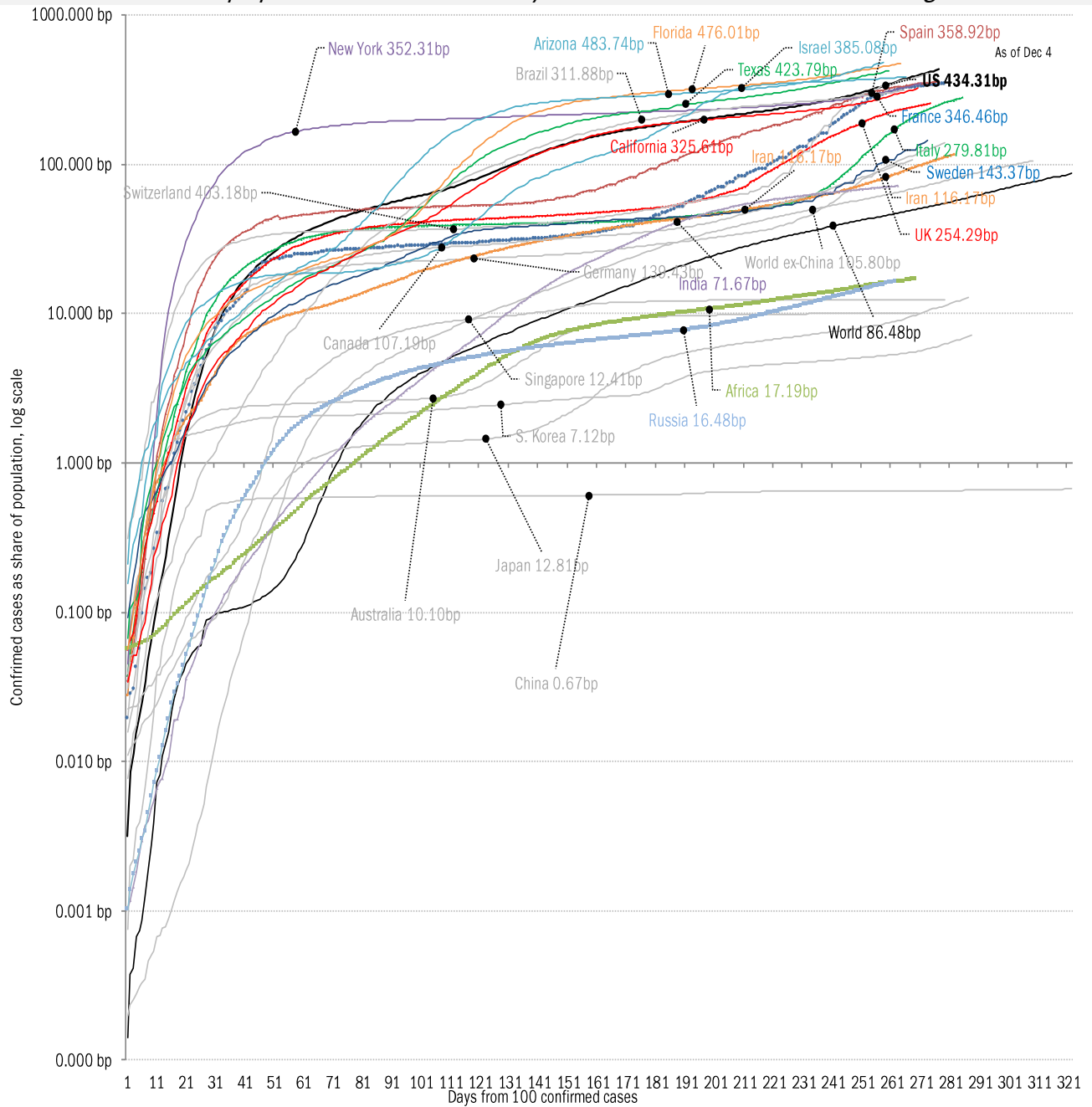
Jon Miltimore
Foundation for Economic Education
December 1, 2020

Meme of day



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

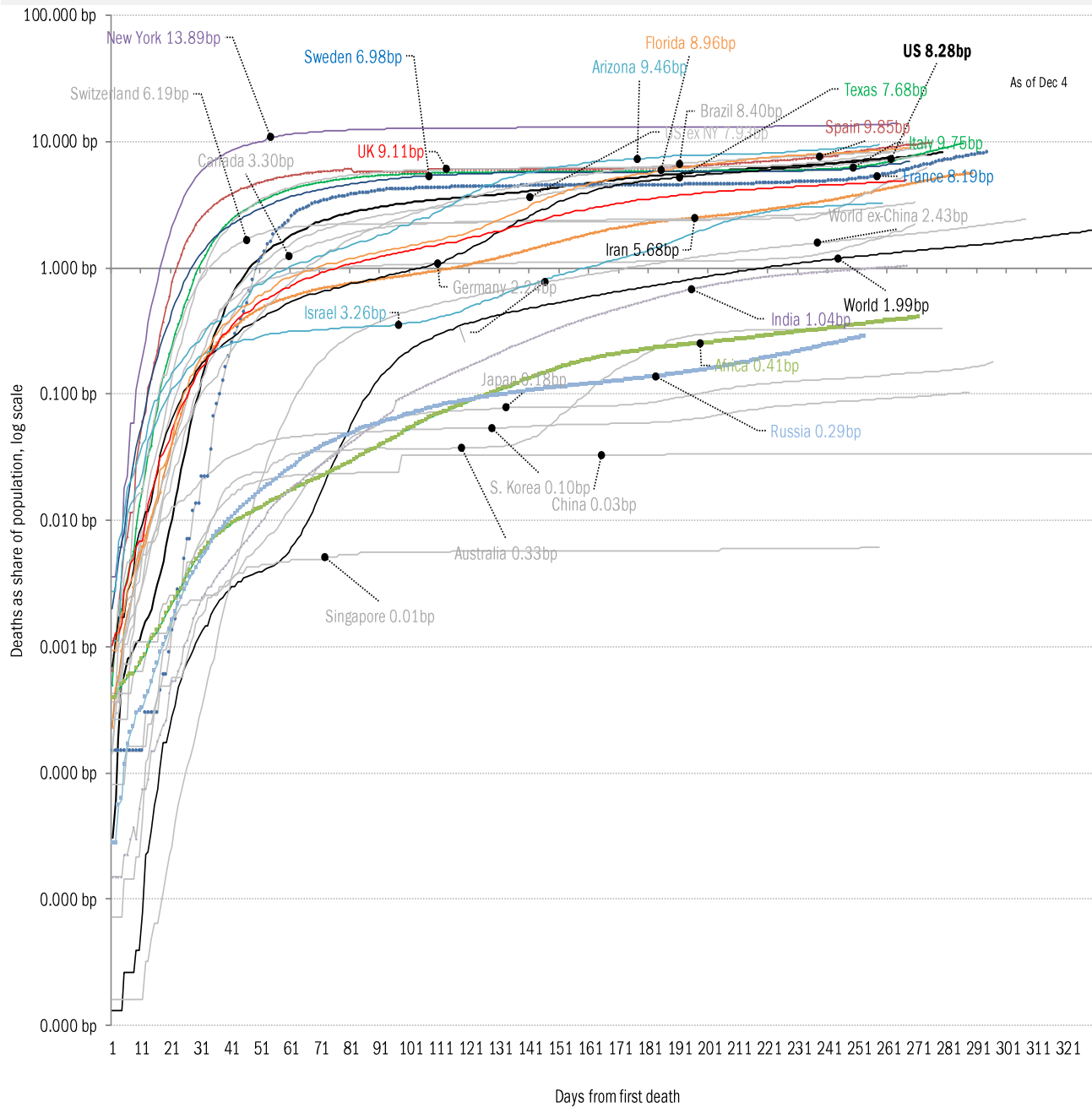
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [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

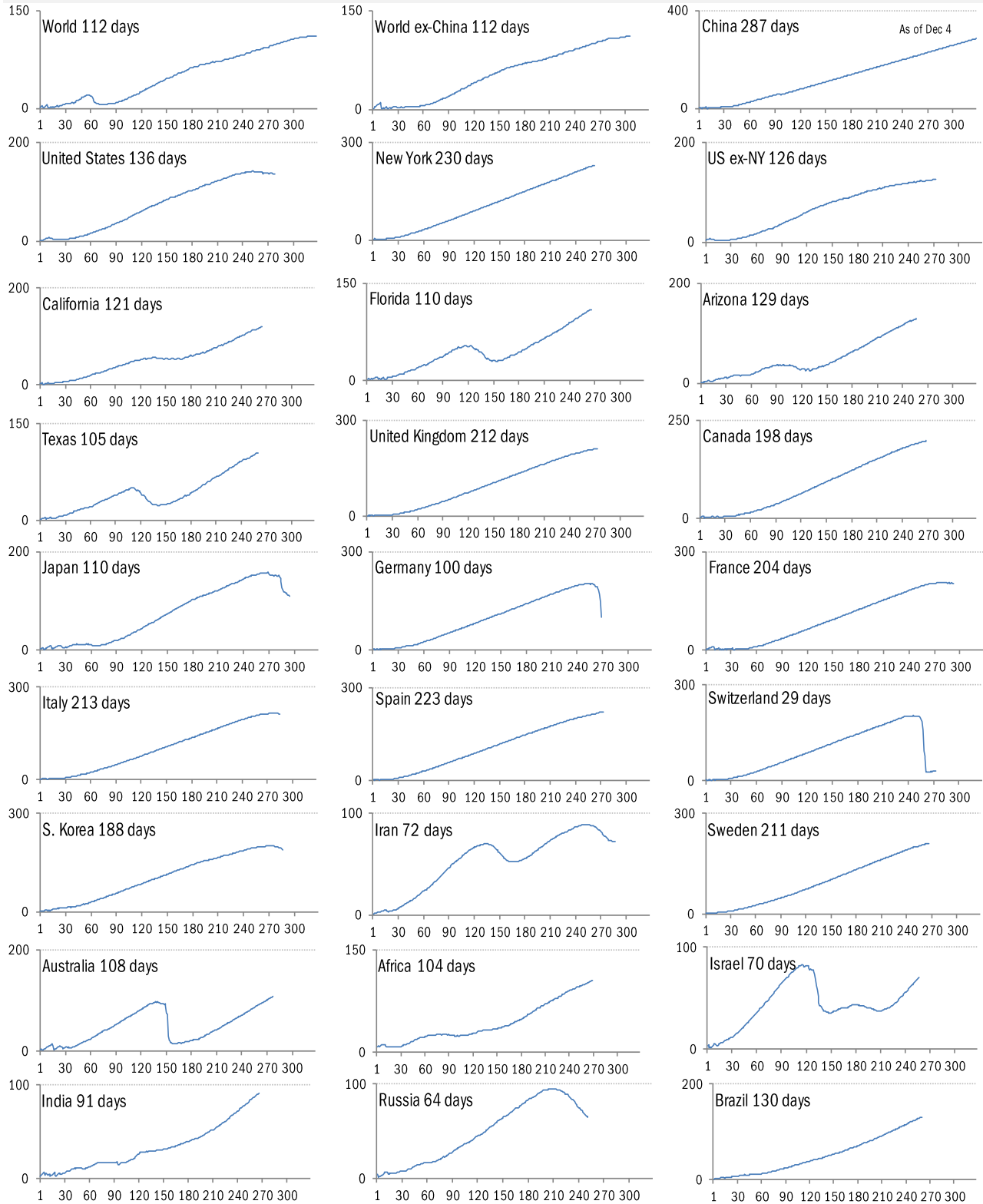


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-19

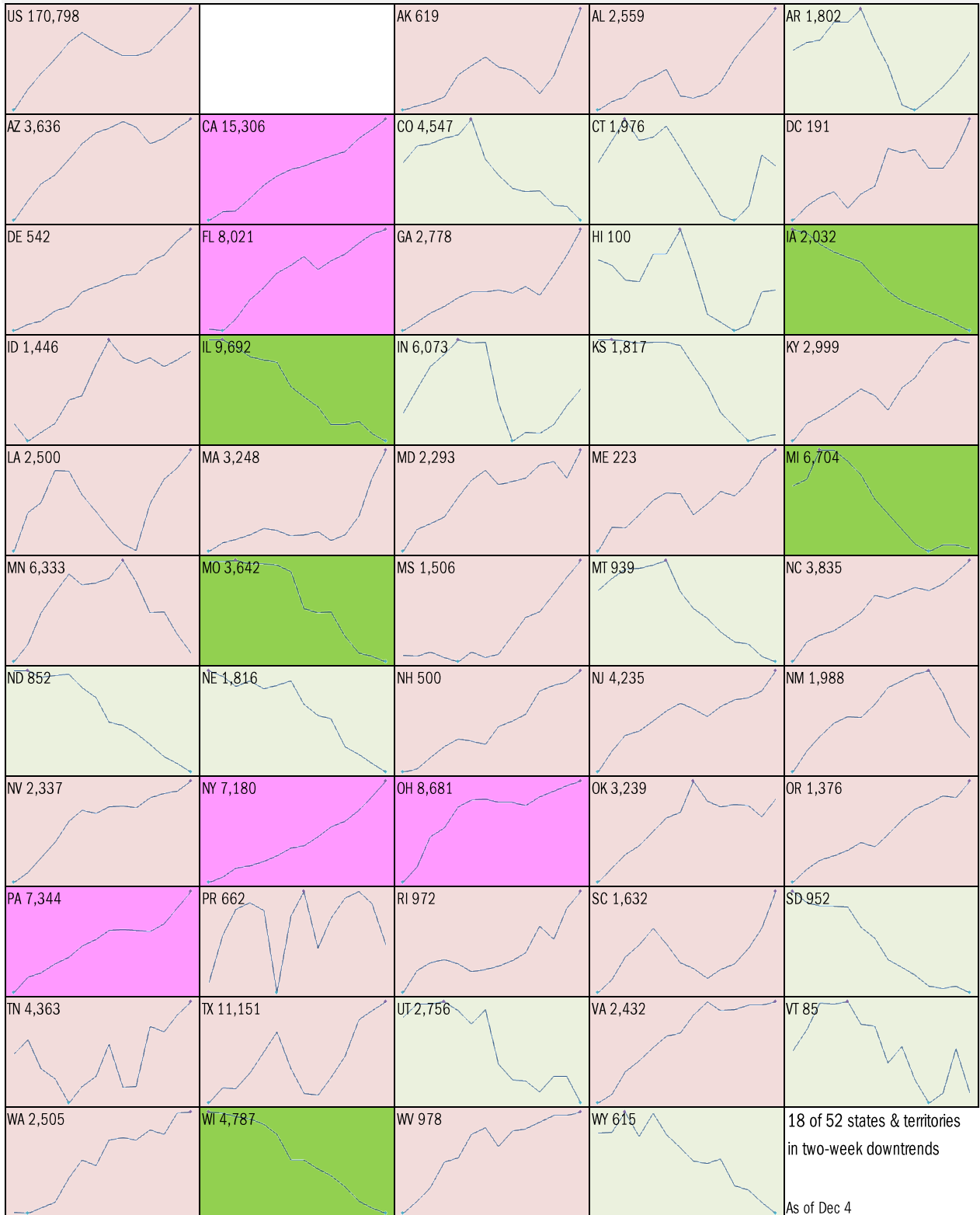
Vertical: days to double deaths Horizontal: days from first death

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

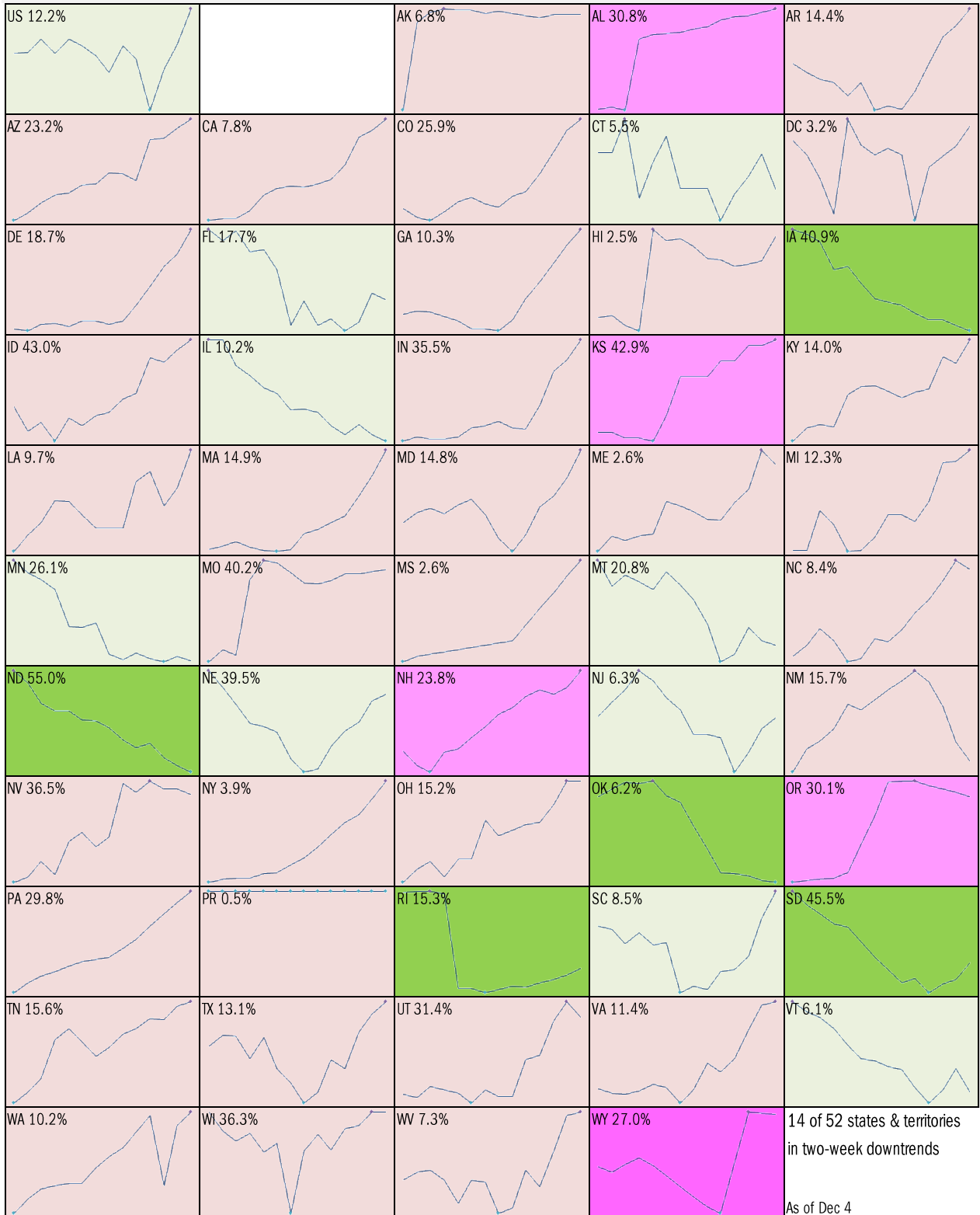


Source: [Covid Tracking Project](#), TrendMacro calculations

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



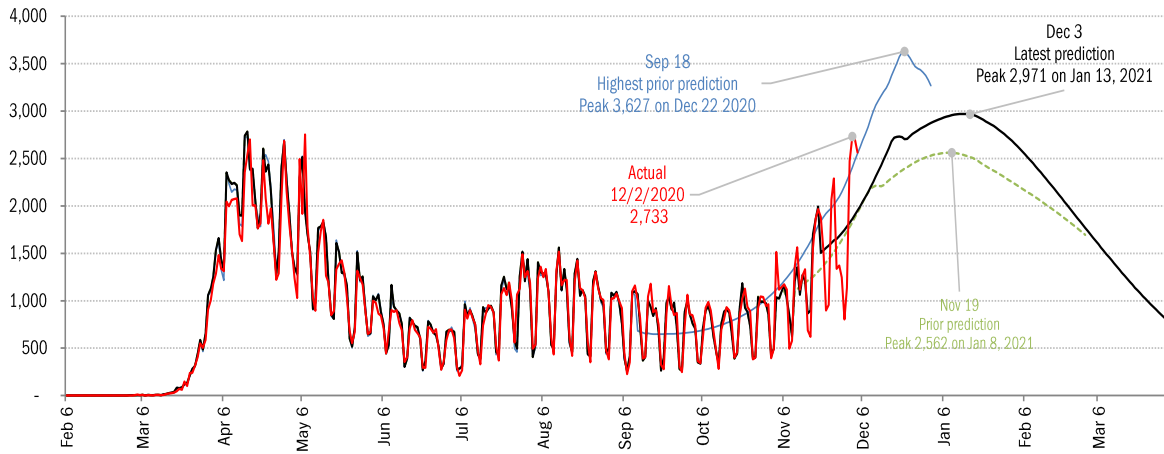
Source: [Covid Tracking Project](#), TrendMacro calculations

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

New daily fatalities

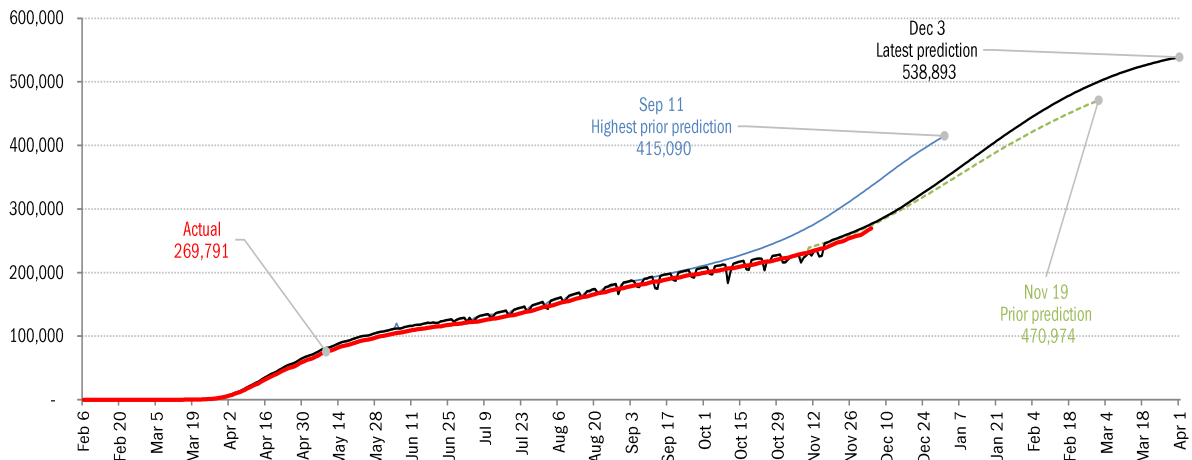
As of Dec 4

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

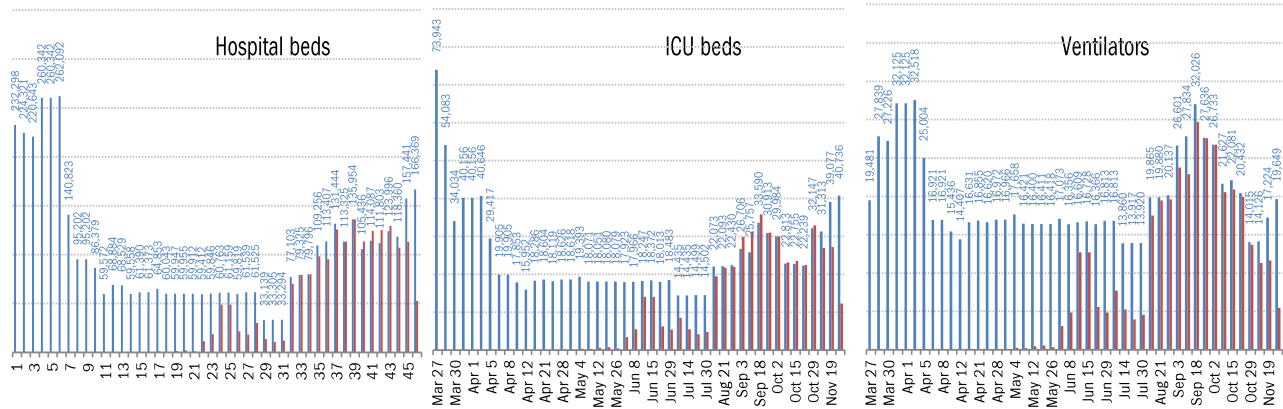


Cumulative fatalities

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

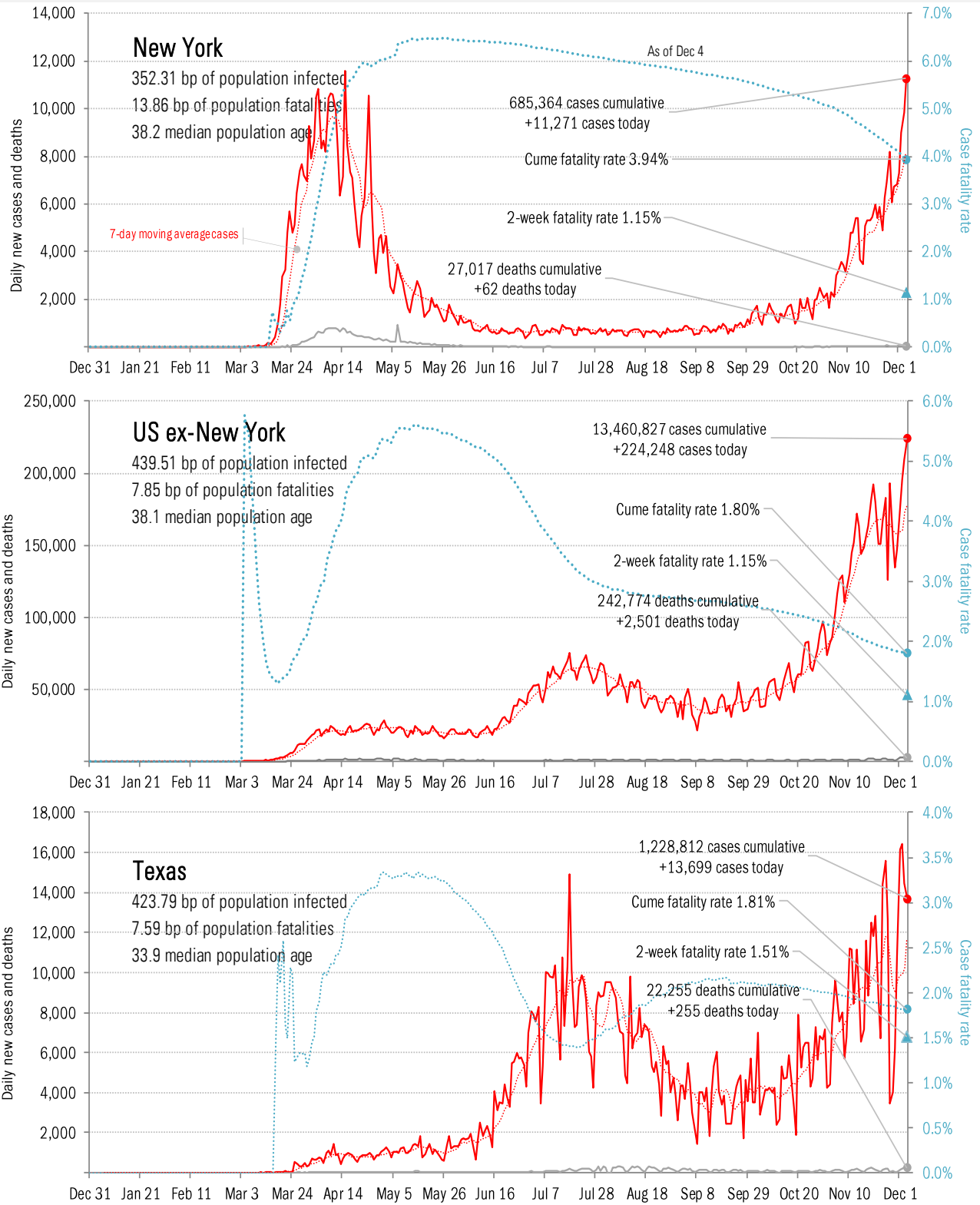


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



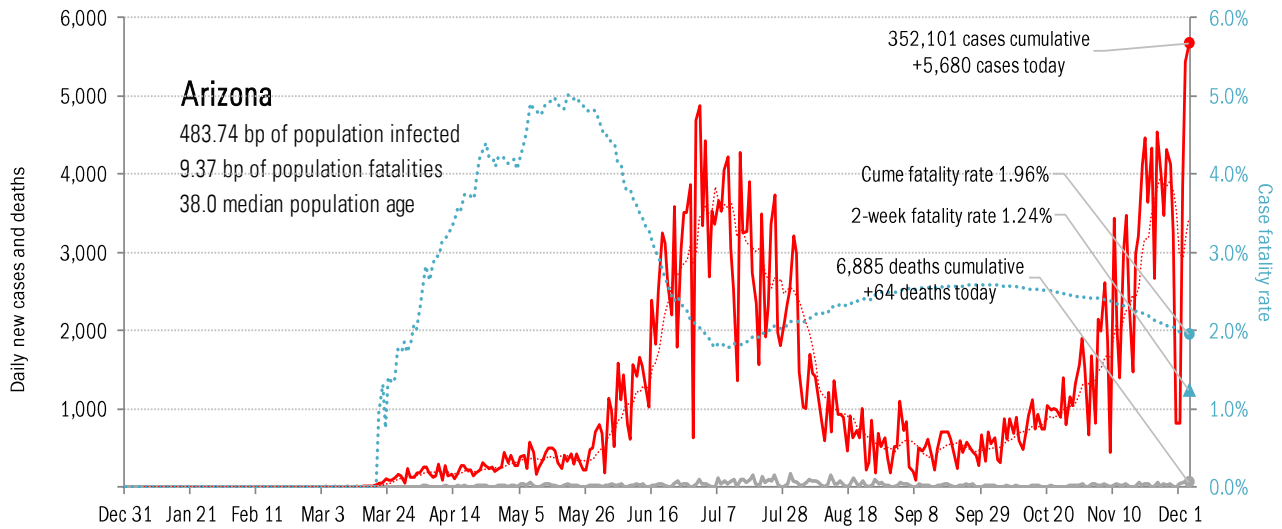
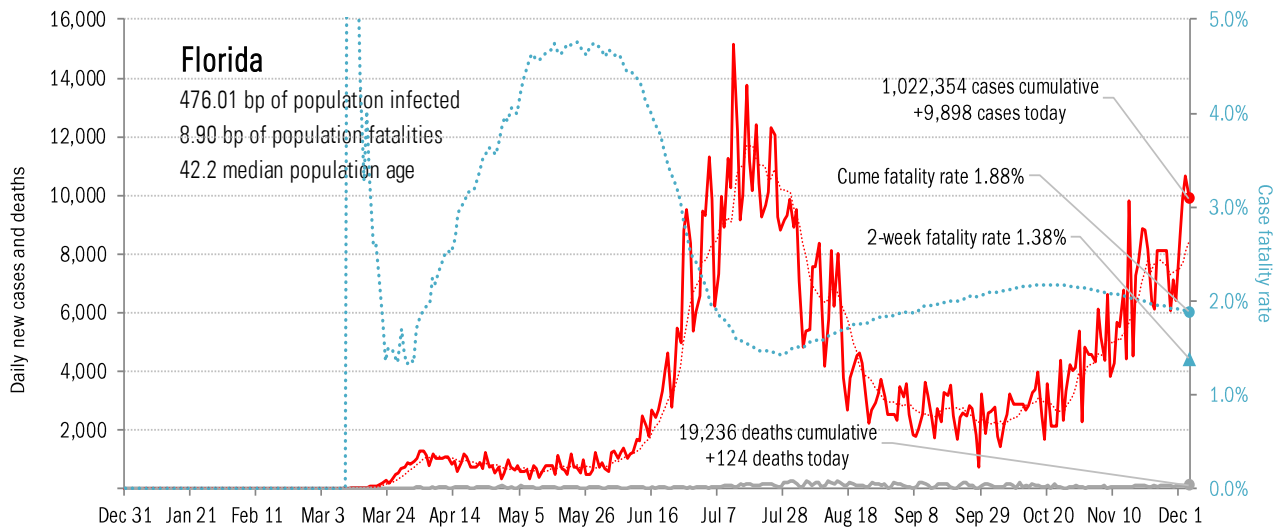
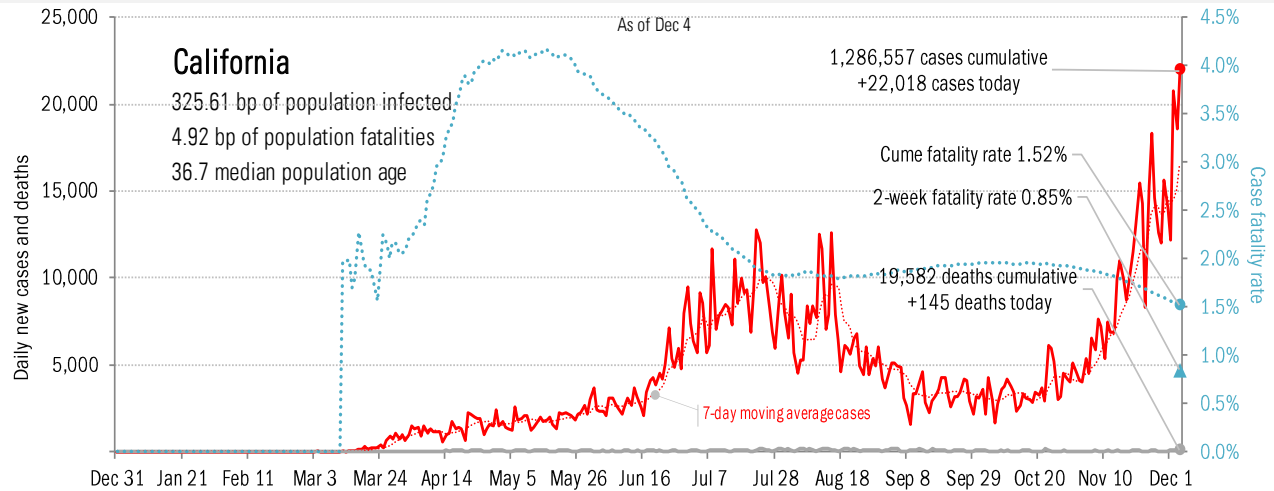
Source: [IHME](#), [Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



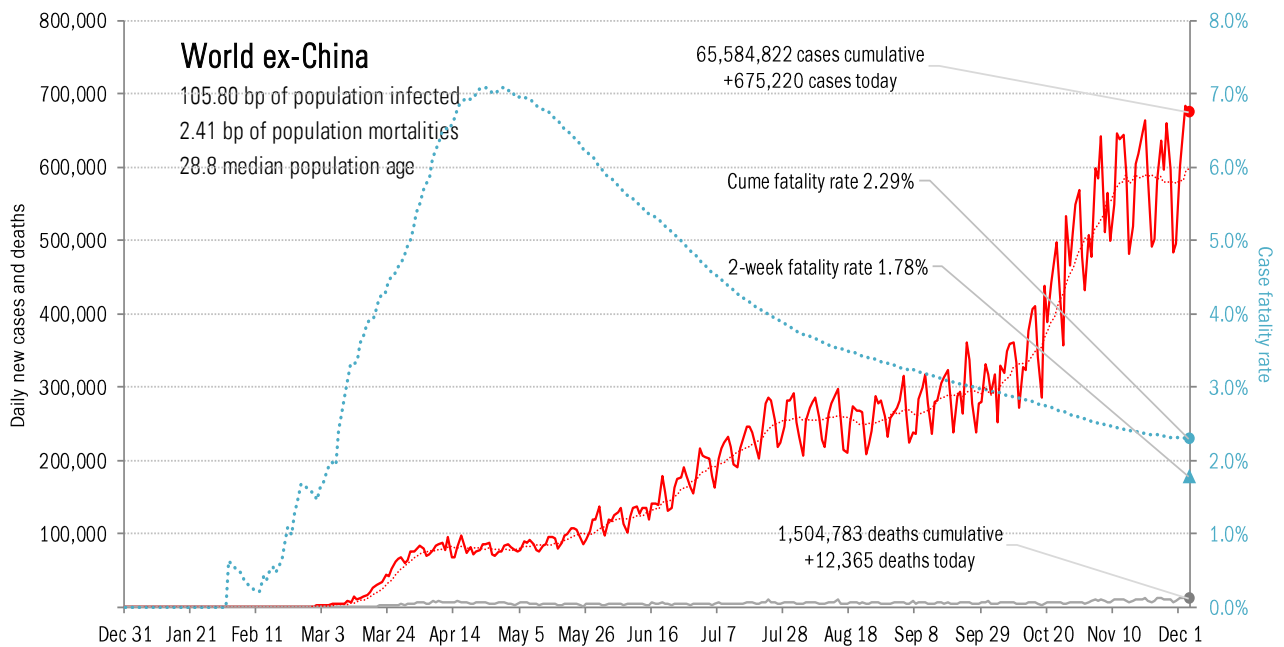
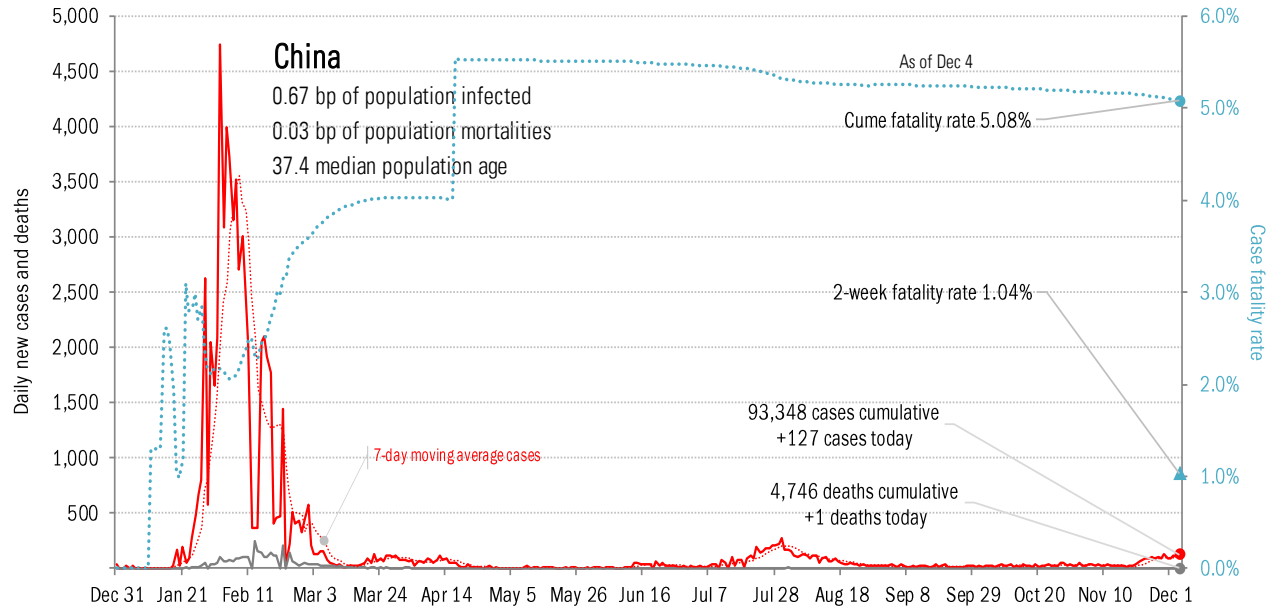
Source: [Covid Tracking Project](#), TrendMacro calculations

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



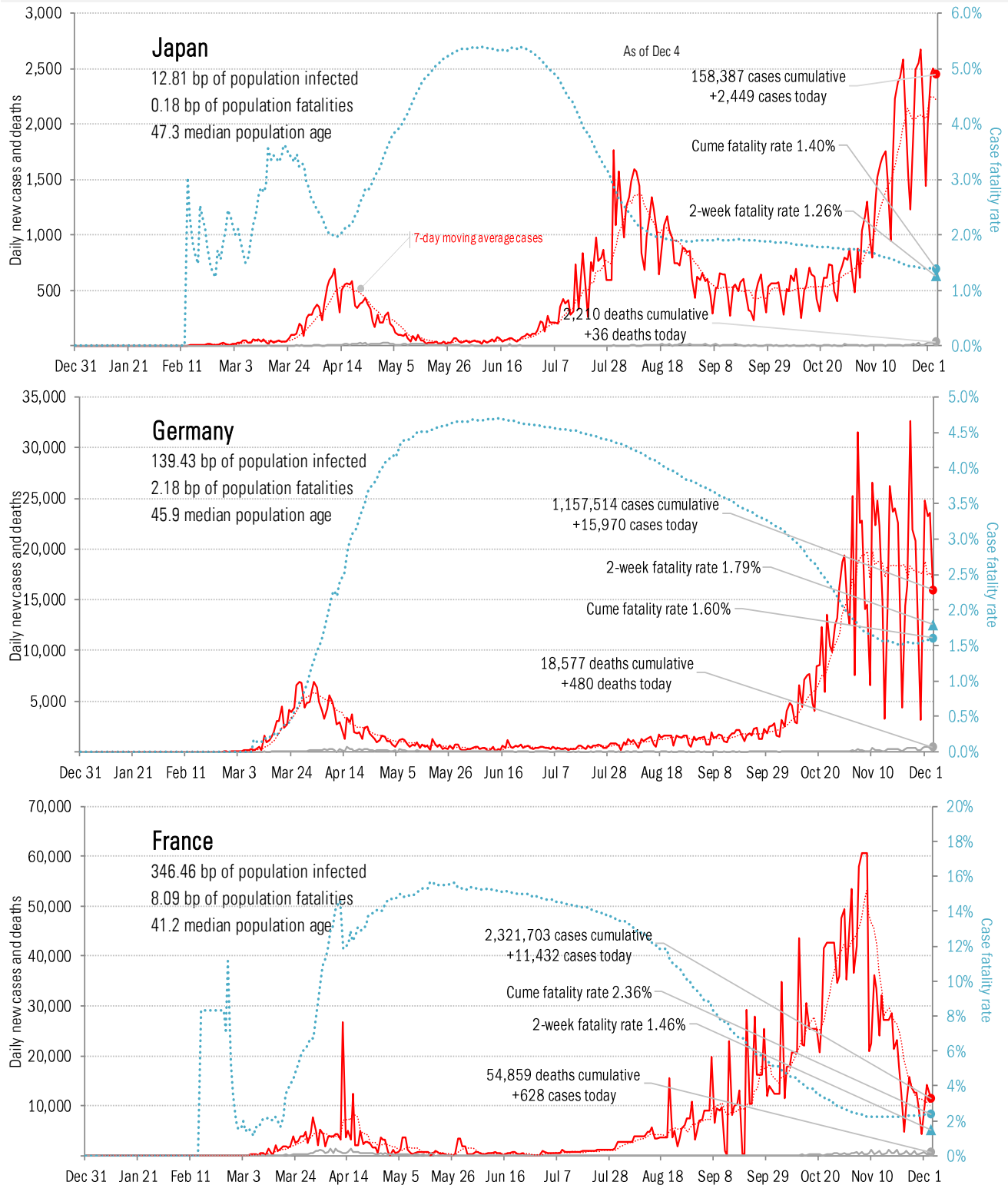
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



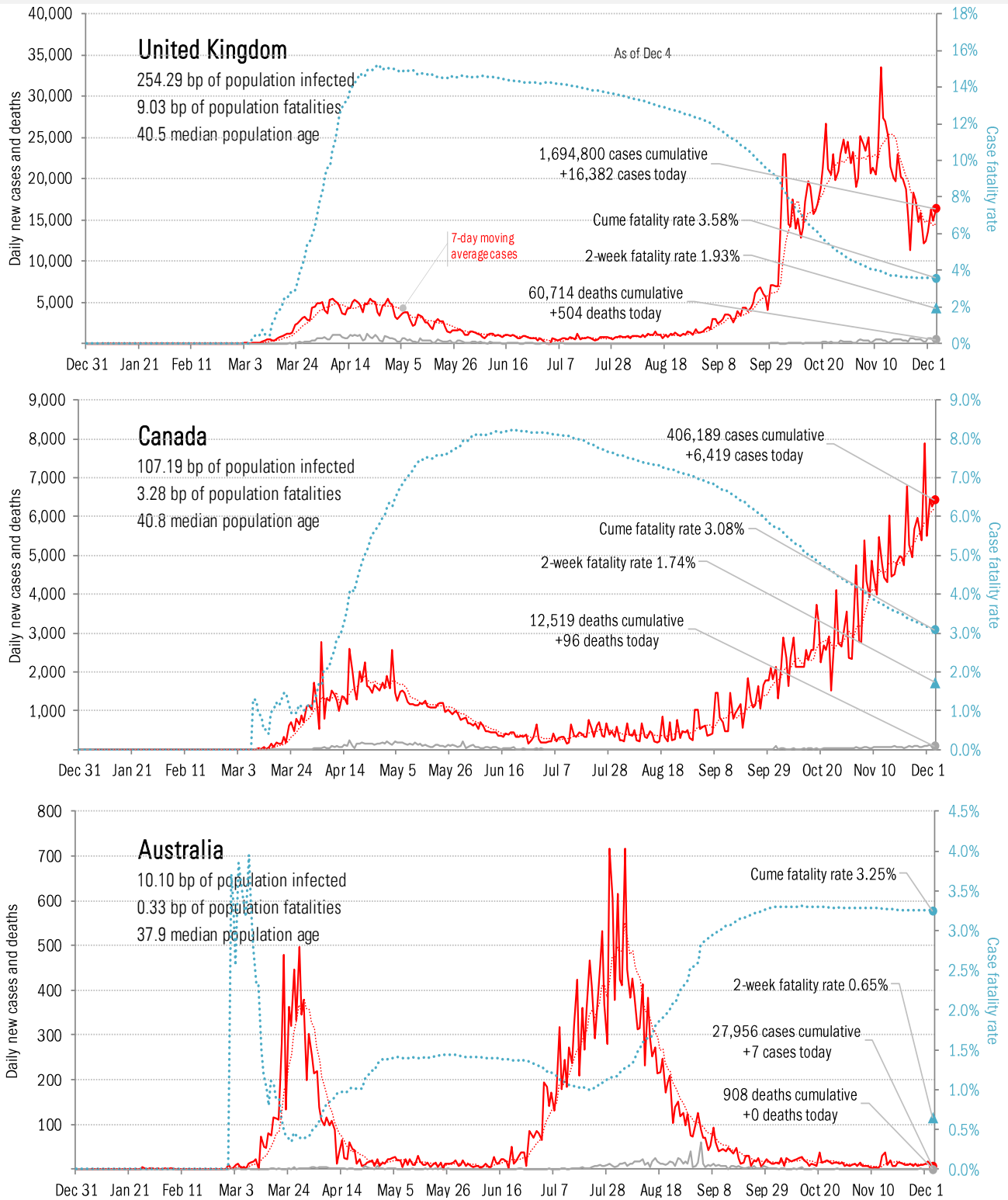
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



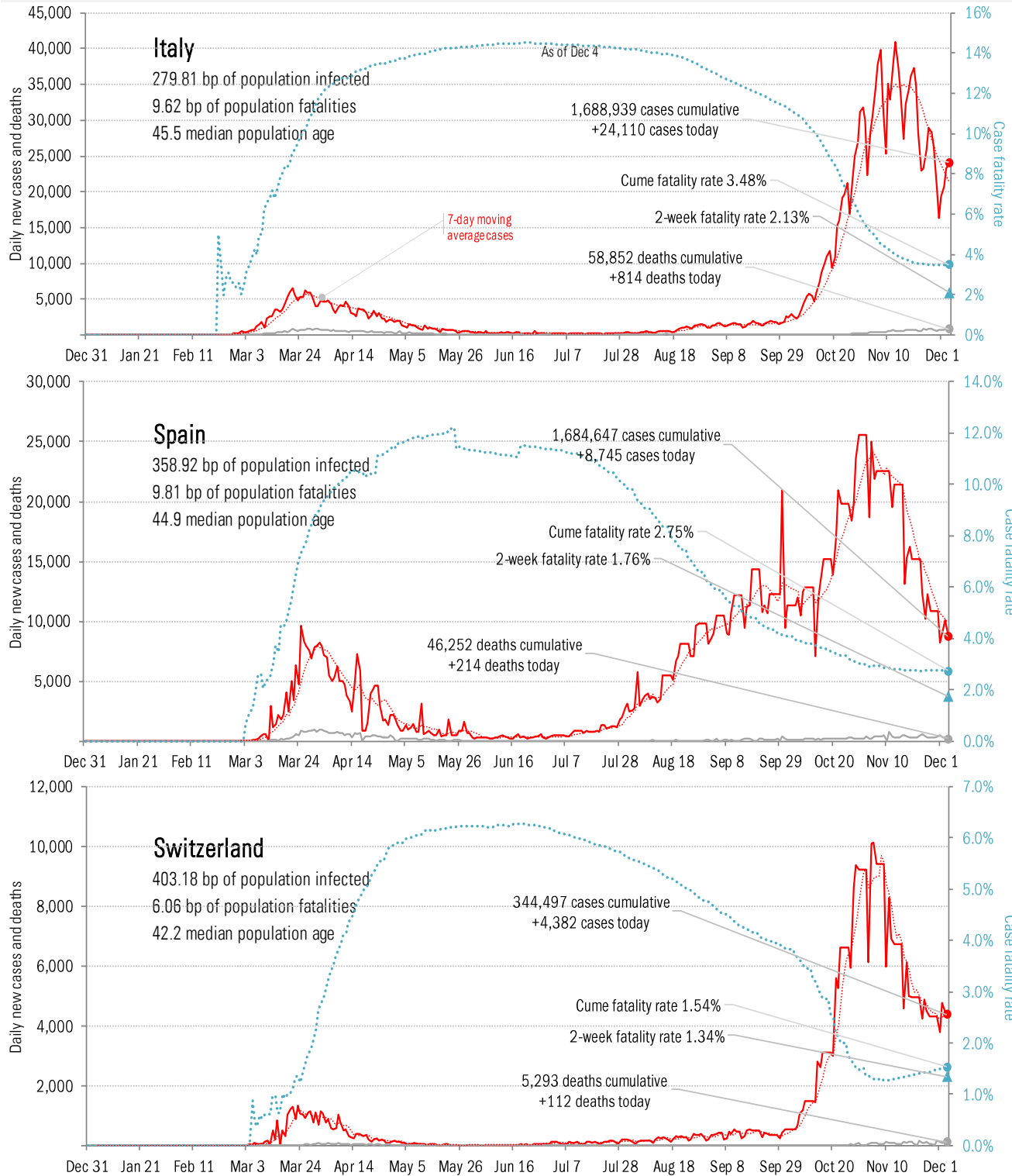
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



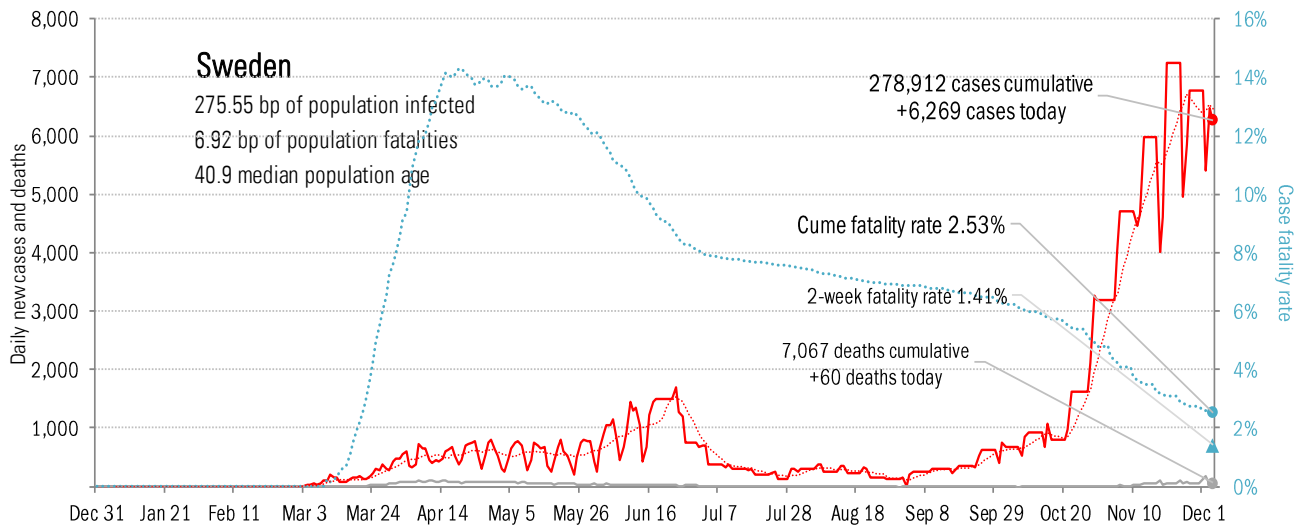
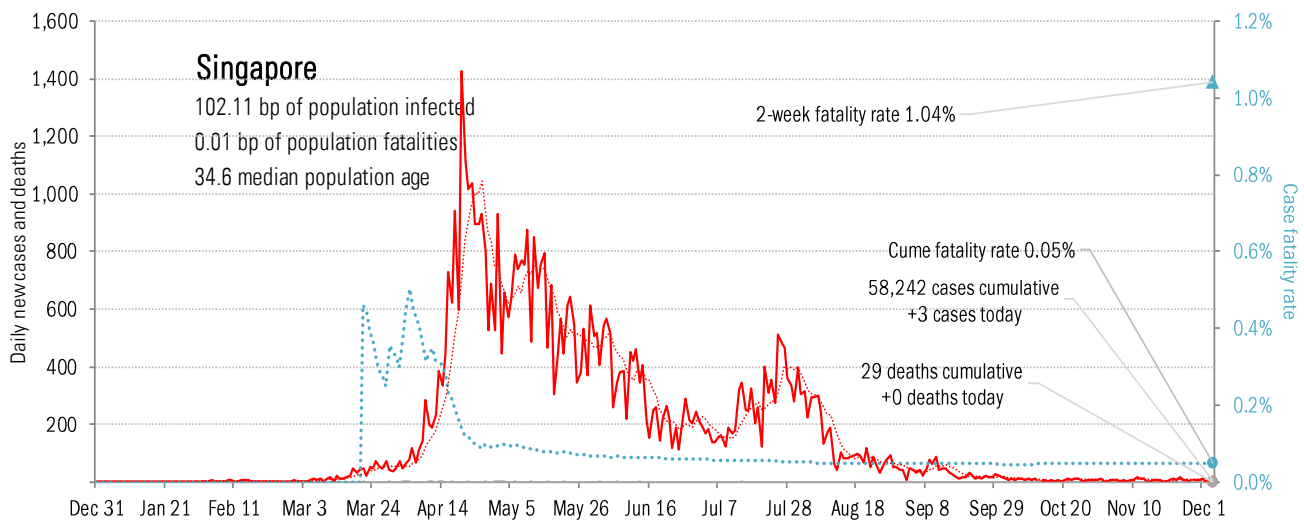
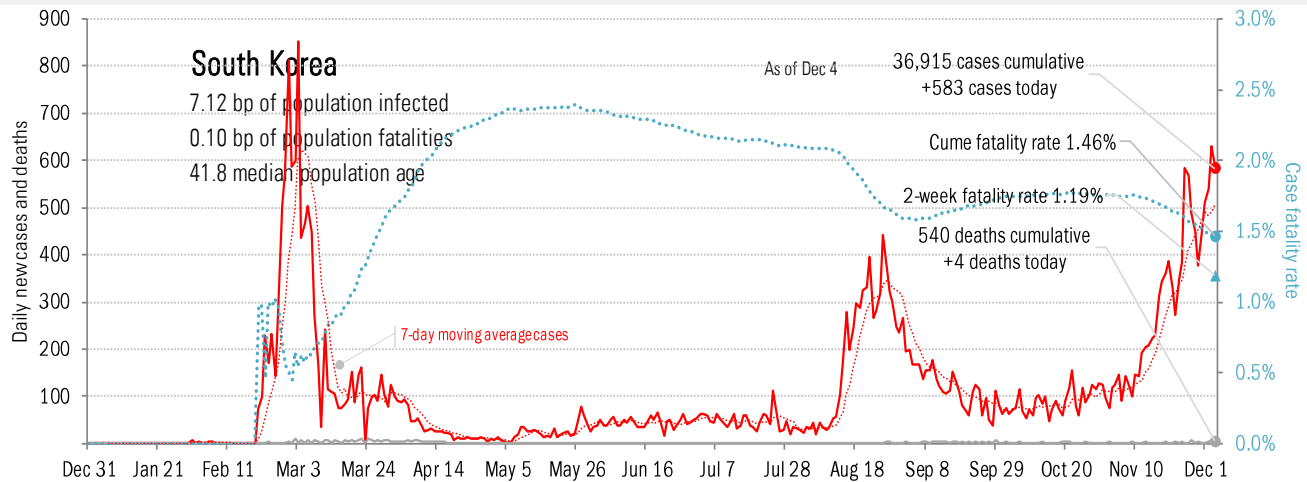
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



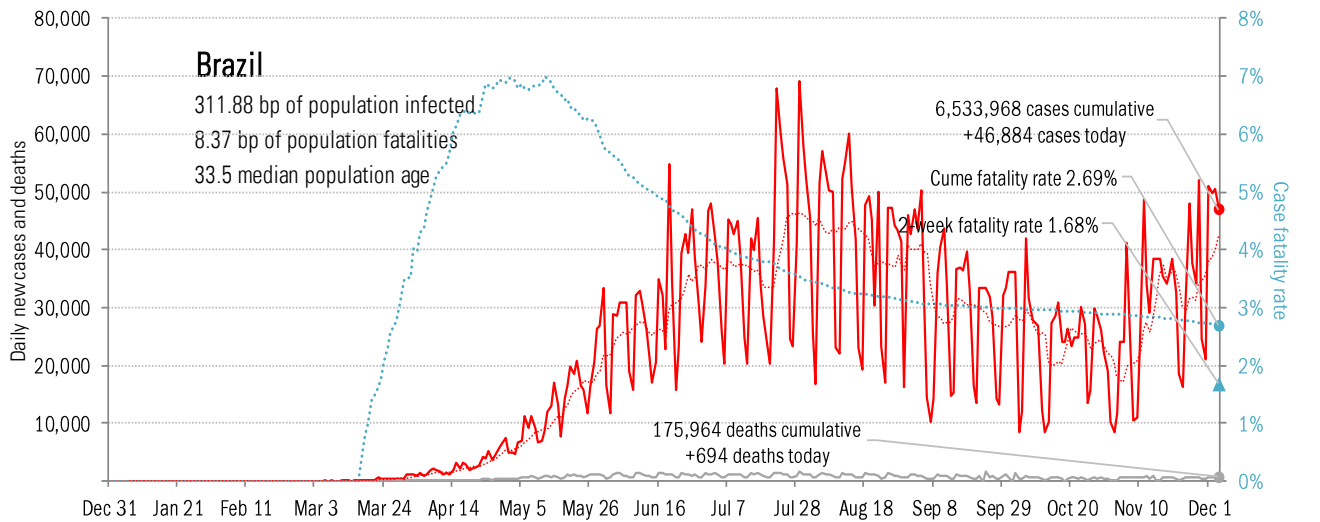
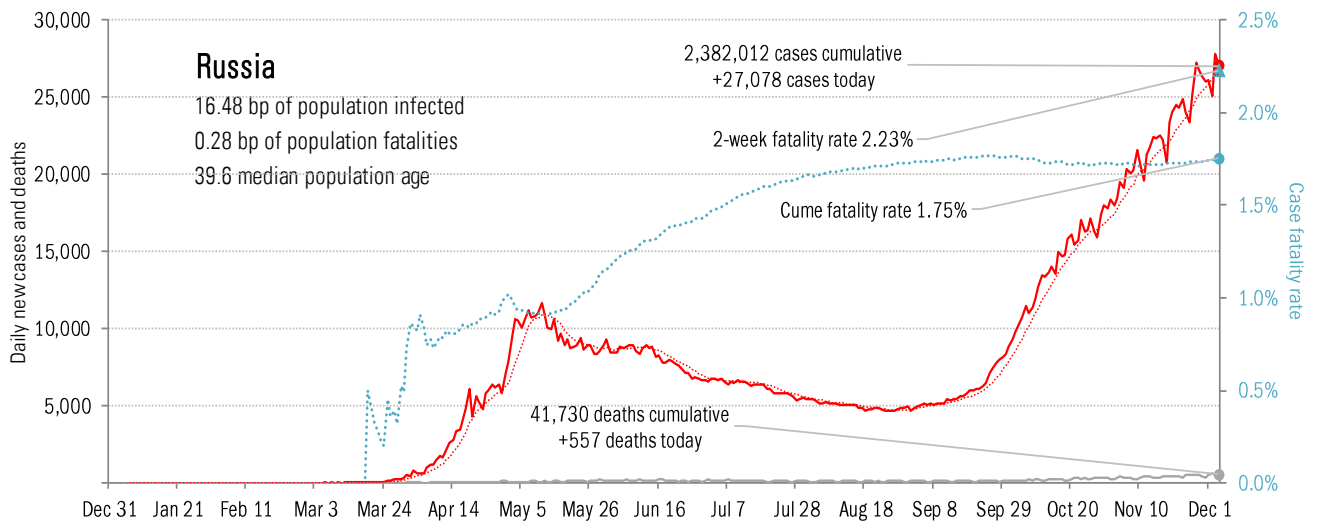
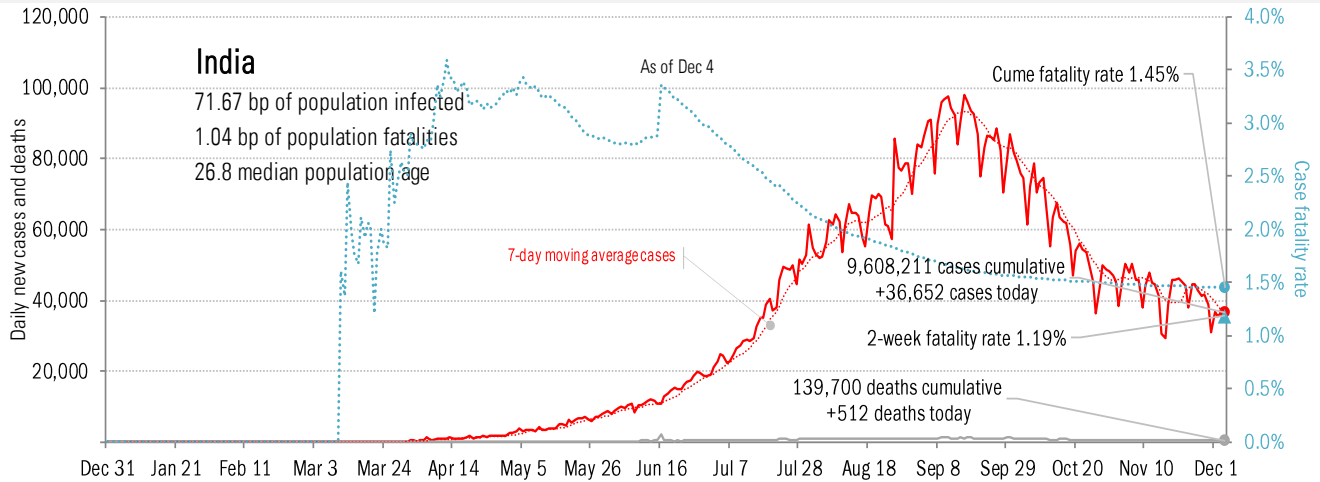
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



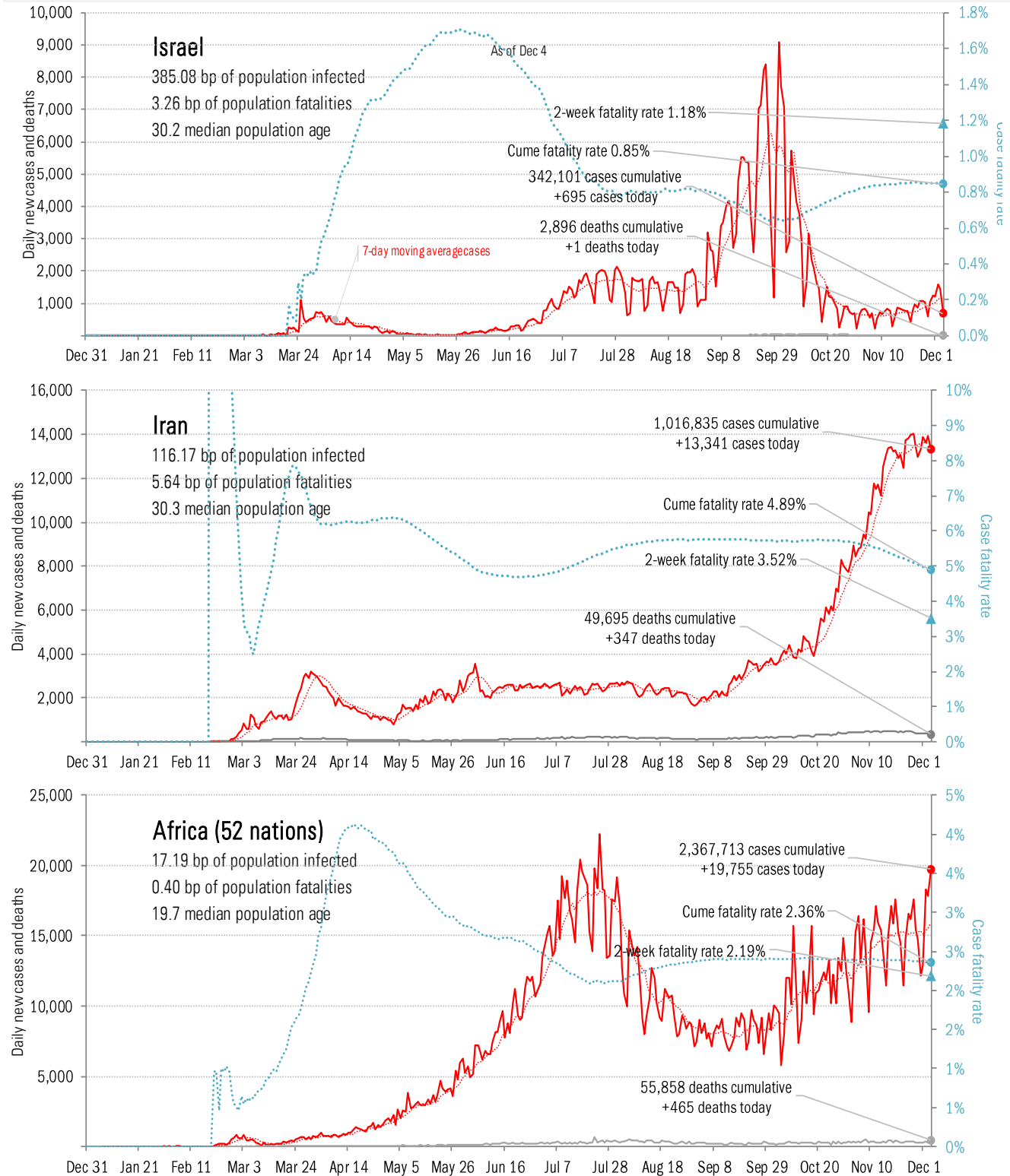
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



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

Impact in the Middle East and Africa



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