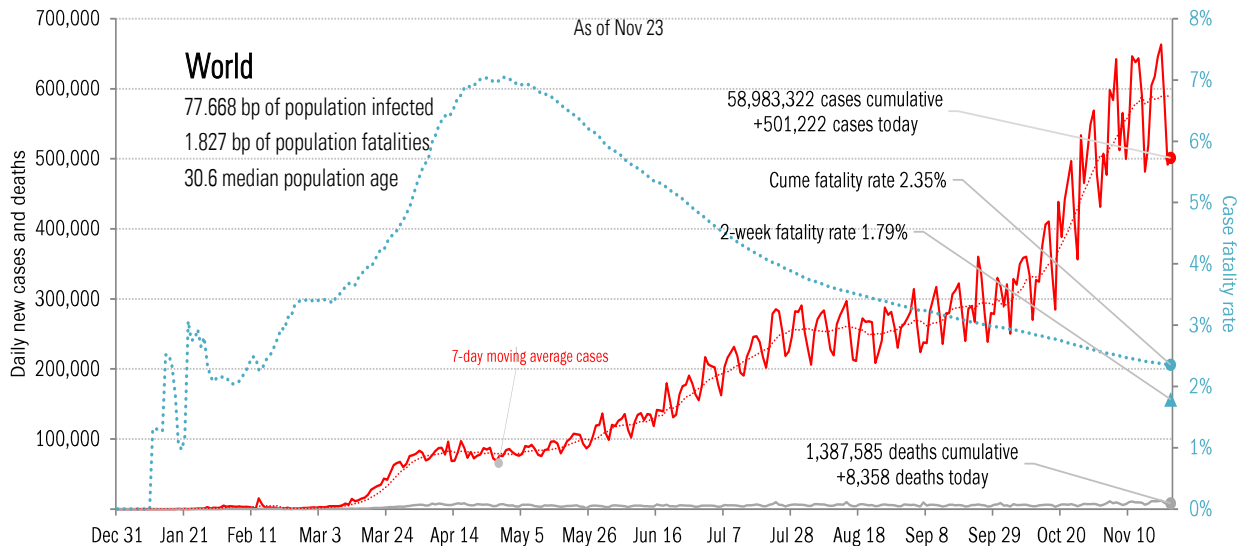
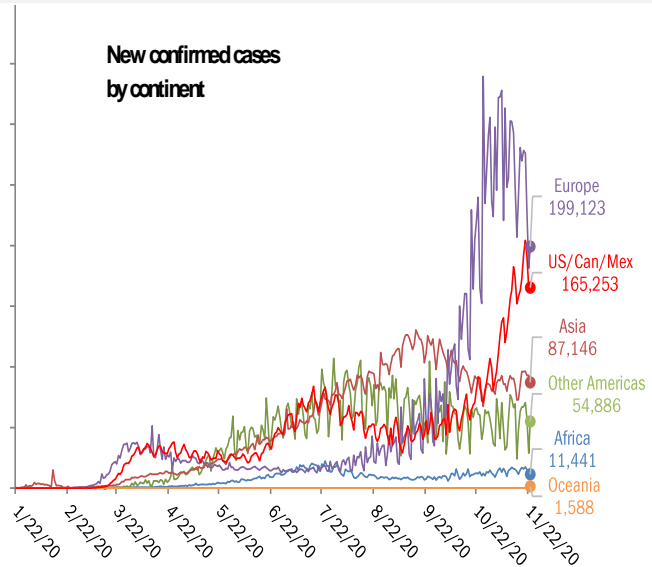


Data Insights: Covid-2019 Monitor

Tuesday, November 24, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+150,975	United States	+956
India	+37,975	Italy	+630
Spain	+25,886	Spain	+512
Russia	+24,891	France	+505
Italy	+22,927	India	+480
Brazil	+16,207	Iran	+453
United Kingdom	+15,465	Russia	+354
Poland	+15,002	Brazil	+302
Germany	+14,455	Germany	+301
Iran	+12,460	Uruguay	+257
+336,243		+4,750	
World	+501,222	World	+8,358
Top ten	67%	Top ten	57%



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

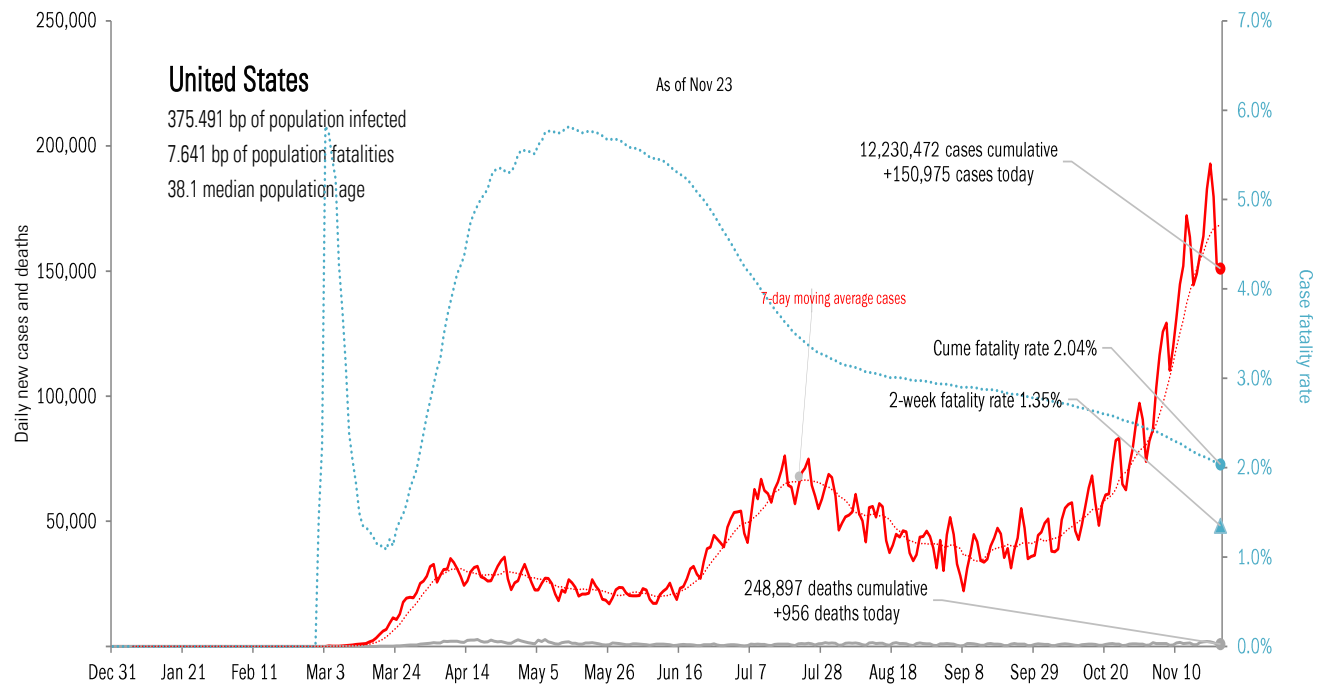
The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
MI	+11,943	CO	+101	CA	+336	CA	1,110,370	NY	26,390	NY	89,995
CH	+11,885	FL	+96	TX	+179	TX	1,100,979	TX	20,588	FL	54,167
CA	+8,337	MI	+65	CH	+177	FL	930,728	CA	18,726	NJ	40,222
IL	+8,322	IL	+61	NY	+162	IL	664,620	FL	18,310	GA	34,083
KS	+7,526	CA	+50	MI	+160	NY	602,120	NJ	16,772	VA	24,765
TX	+6,704	KS	+46	FL	+141	GA	406,220	IL	12,112	CH	24,705
MN	+6,343	CT	+43	NJ	+125	WI	379,693	MA	10,531	AZ	24,461
FL	+6,114	TN	+35	IL	+99	CH	363,304	PA	9,870	AL	23,942
NY	+5,906	NY	+33	AL	+95	TN	344,550	GA	9,215	IN	23,526
IN	+5,556	TX	+32	PA	+80	MI	340,964	MI	8,940	MD	19,769
+78,636		+562		+1,554		6,243,548		151,454		359,636	
All states	+150,975	All states	+956	All states	+2,057	All states	12,230,472	All states	248,897	All states	546,408
Top ten	52%	Top ten	59%	Top ten	76%	Top ten	51%	Top ten	61%	Top ten	66%

Some states not reporting

Five most improved US states

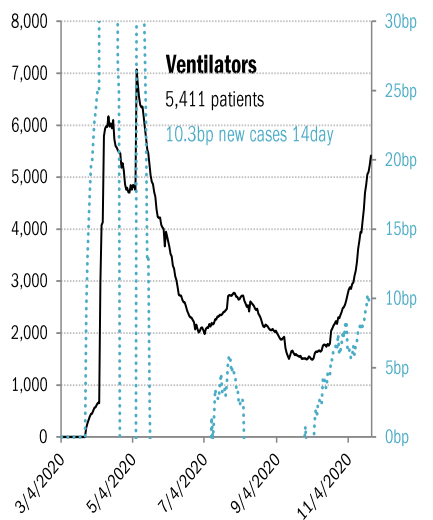
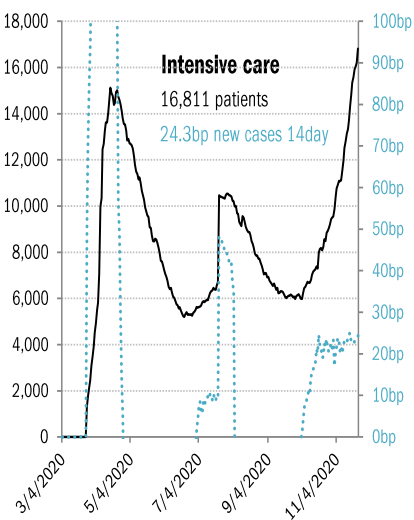
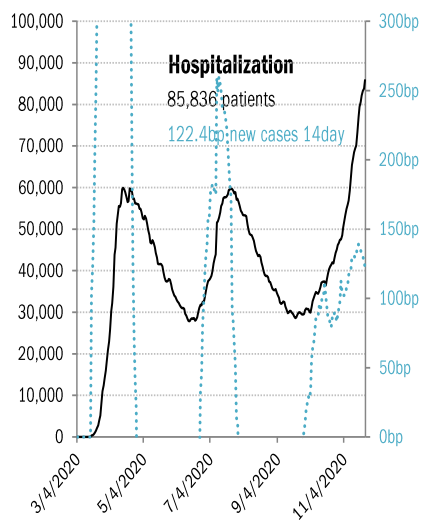
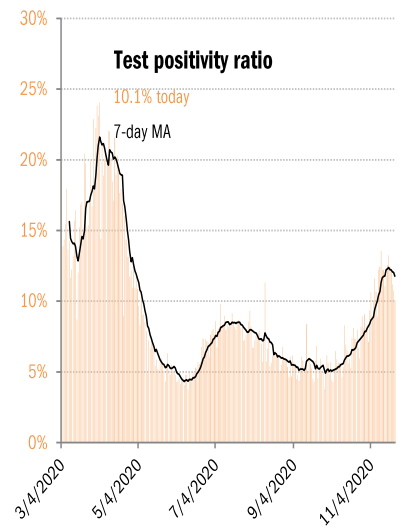
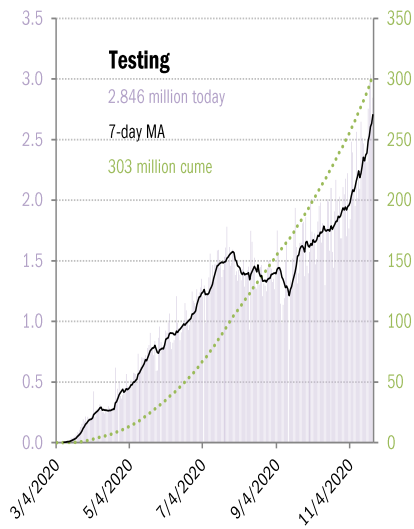
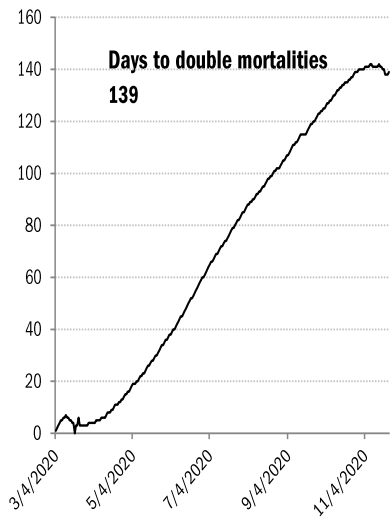
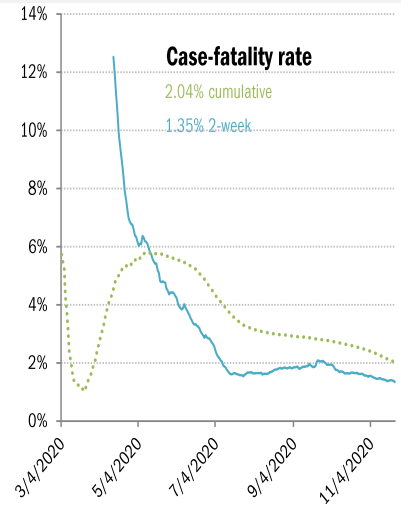
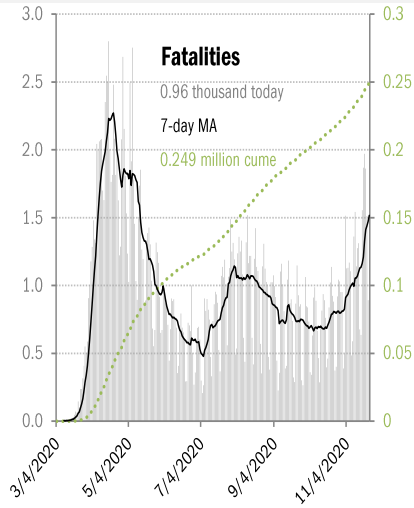
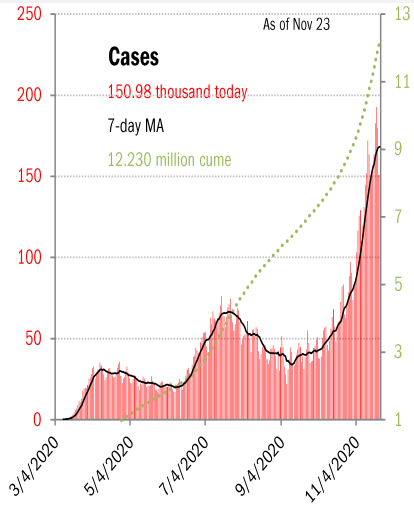
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CA	-5,982	TX	-57	KS	-152	NE	+41,989
LA	-2,515	SD	-42	FL	-76	NC	+17,423
PA	-2,313	IL	-38	ID	-38	MN	+7,591
NC	-2,085	IN	-32	UT	-29	MS	+4,954
TX	-2,047	NC	-24	AR	-28	PA	+4,432



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

Recommended reading

[Biden aides dispute push for quicker, pared-down relief deal](#)

Brett Samuels
The Hill
November 23, 2020

[U.S. Plans First Vaccinations in Weeks, Warp Speed Chief Says](#)

Elizabeth Dexheimer and Tony Czuczka
Bloomberg
November 22, 2020

[Vaccine contracts shrouded in secrecy despite massive public funding](#)

Donato Paolo Mancini
Financial Times
November 22, 2020

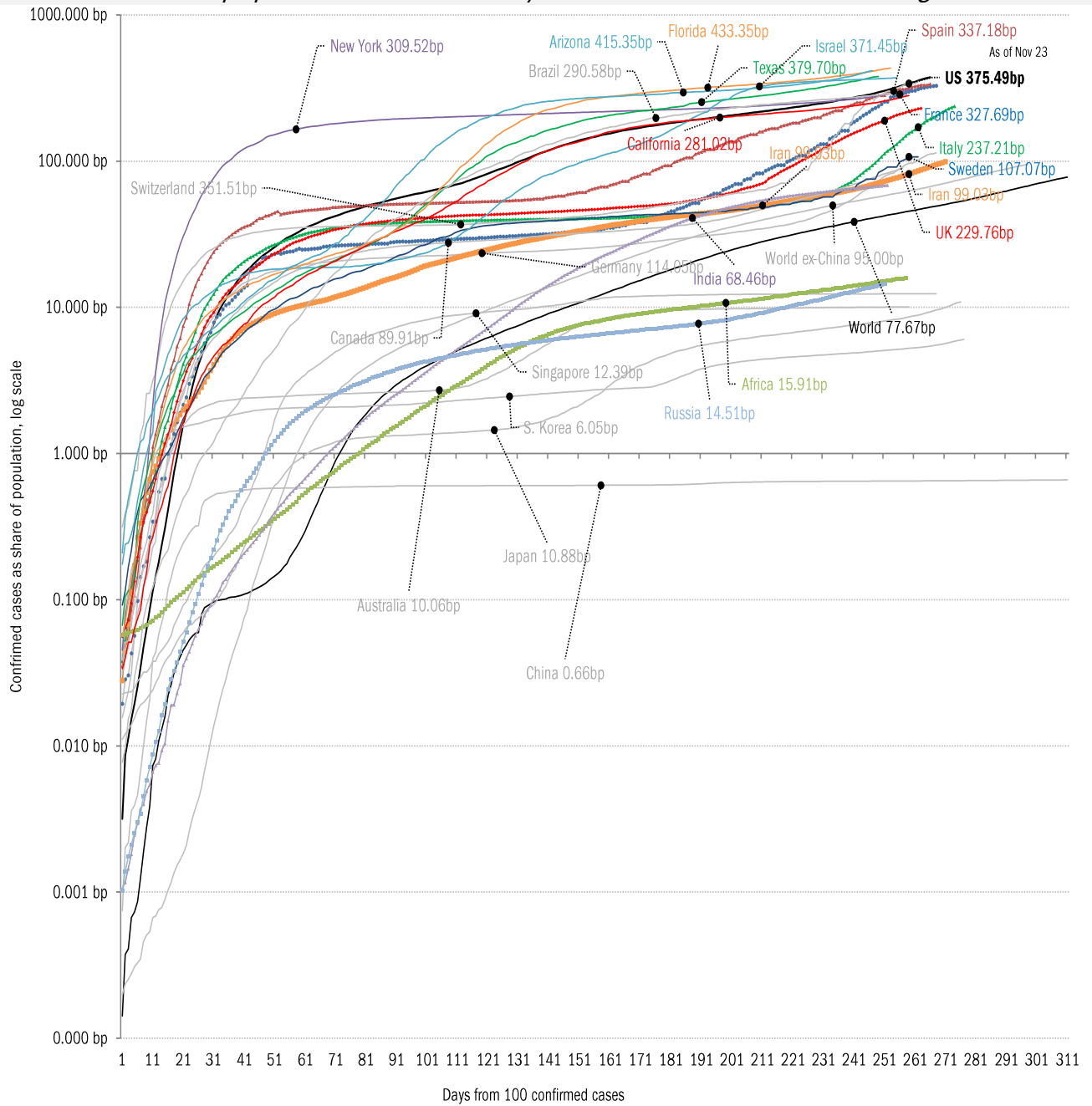
Meme of day

Decorative Thanksgiving doormat
for families violating headcount.



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

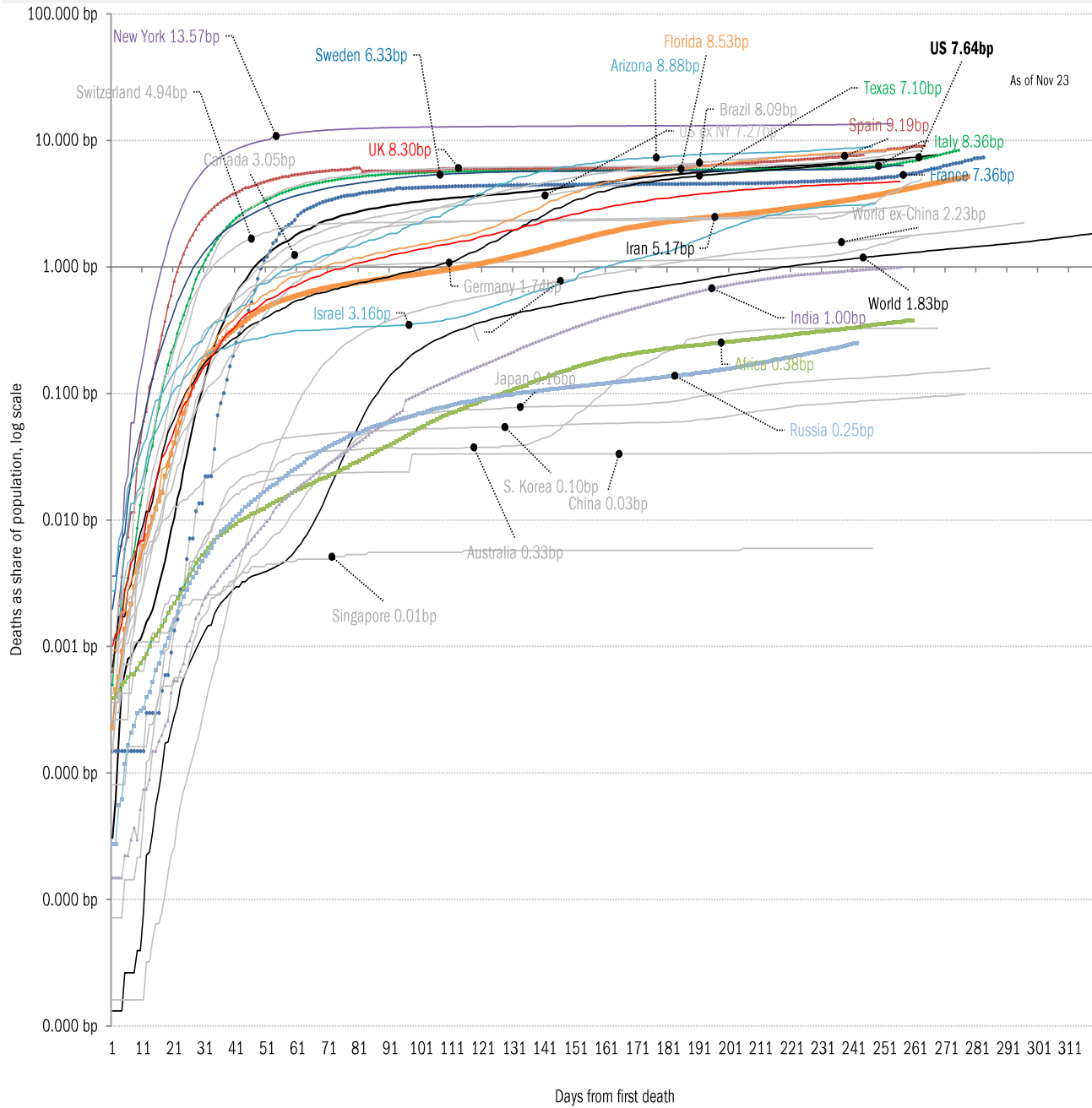
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

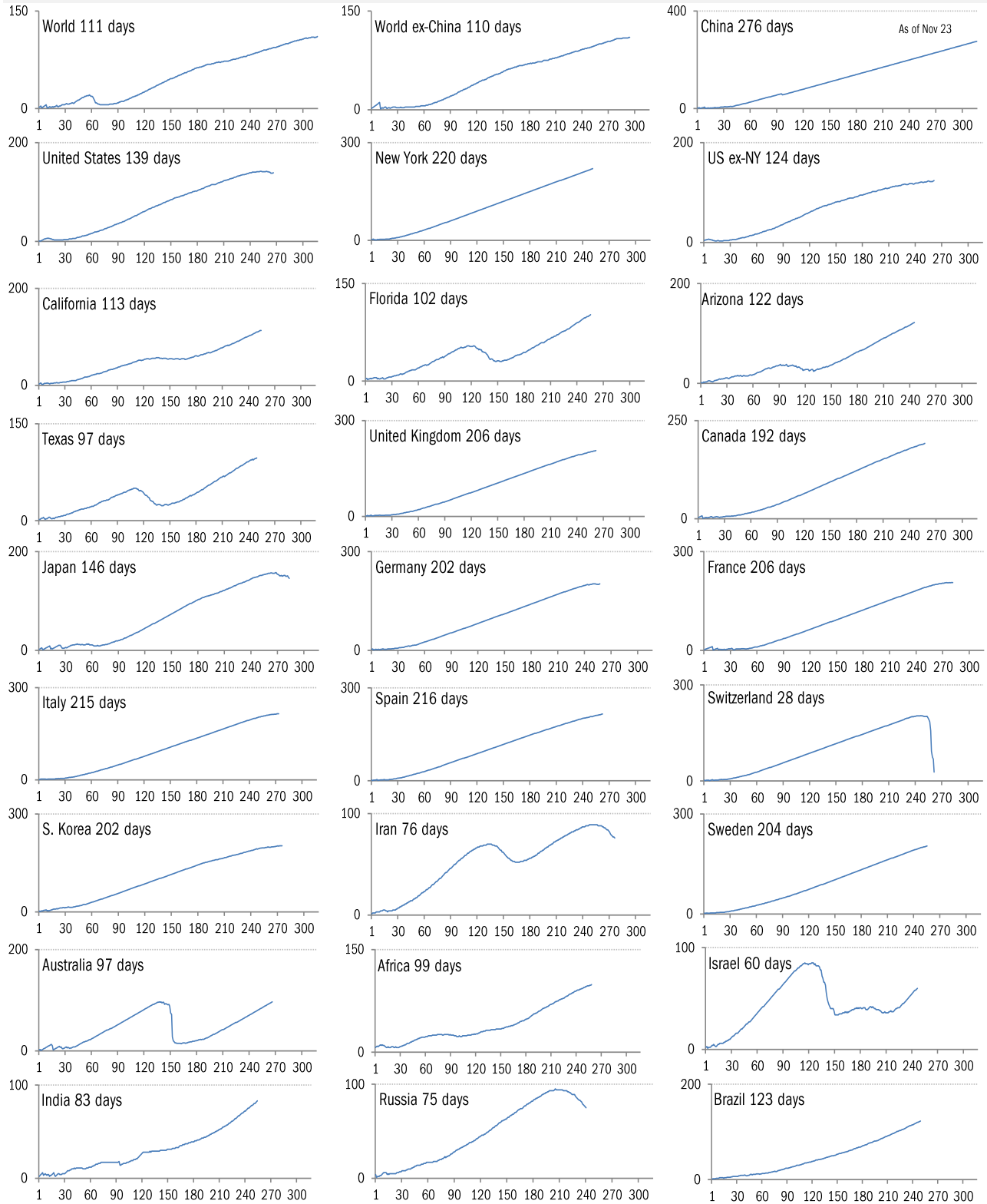


Source: [Johns Hopkins, Covid Tracking Project](#), TrendMacro calculations

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

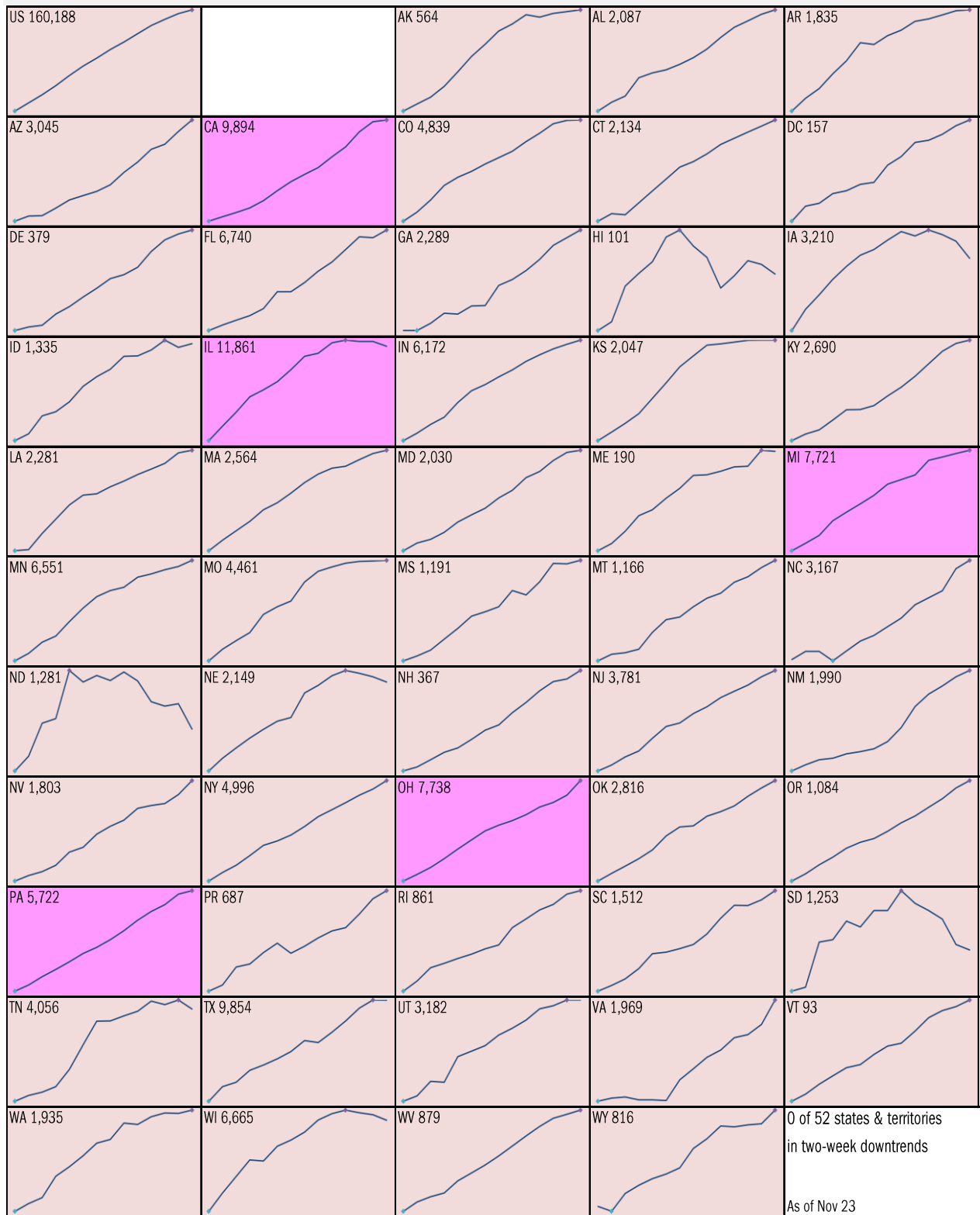
Vertical: days to double deaths Horizontal: days from first death

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

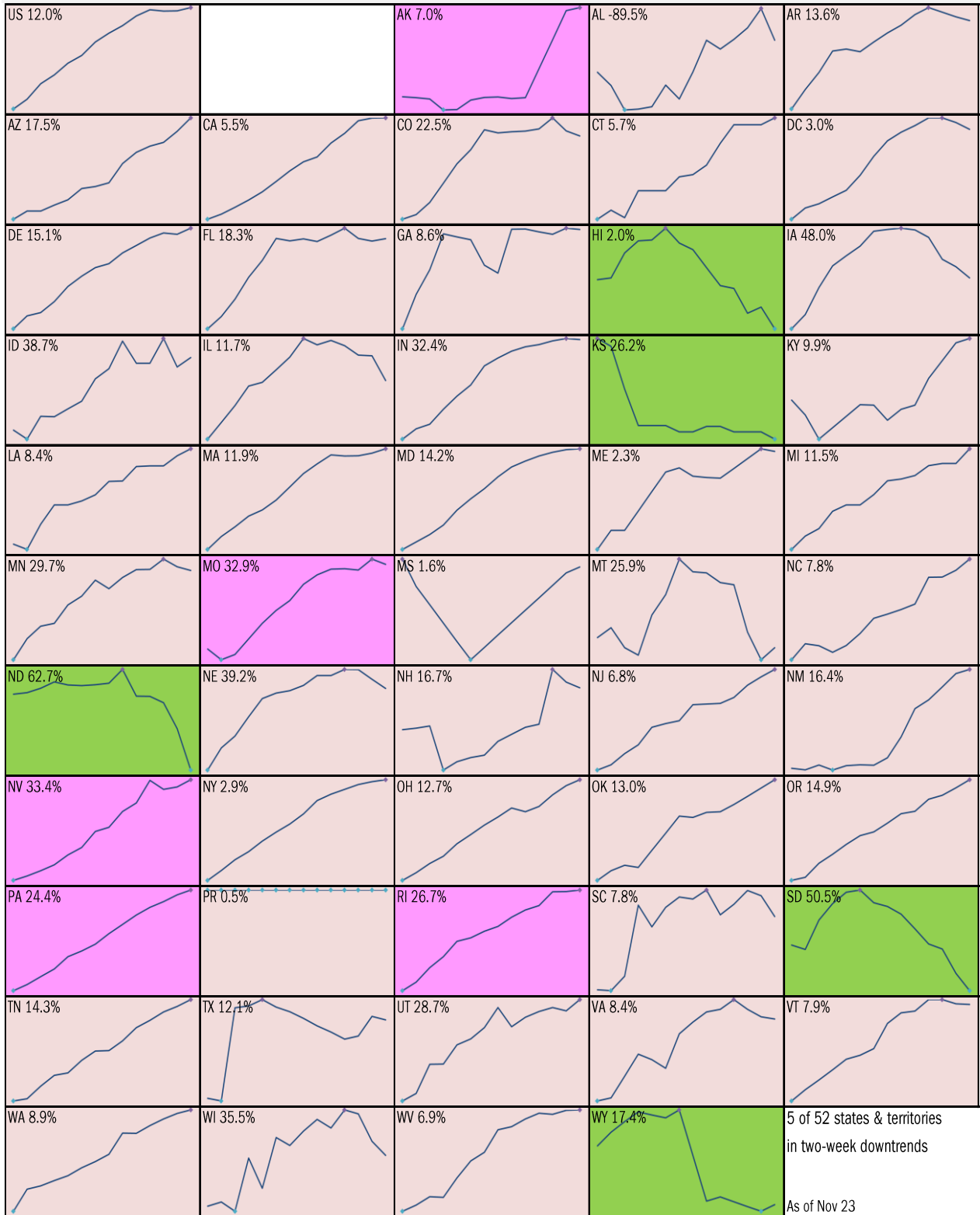


Source: [Covid Tracking Project](#), TrendMacro calculations

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



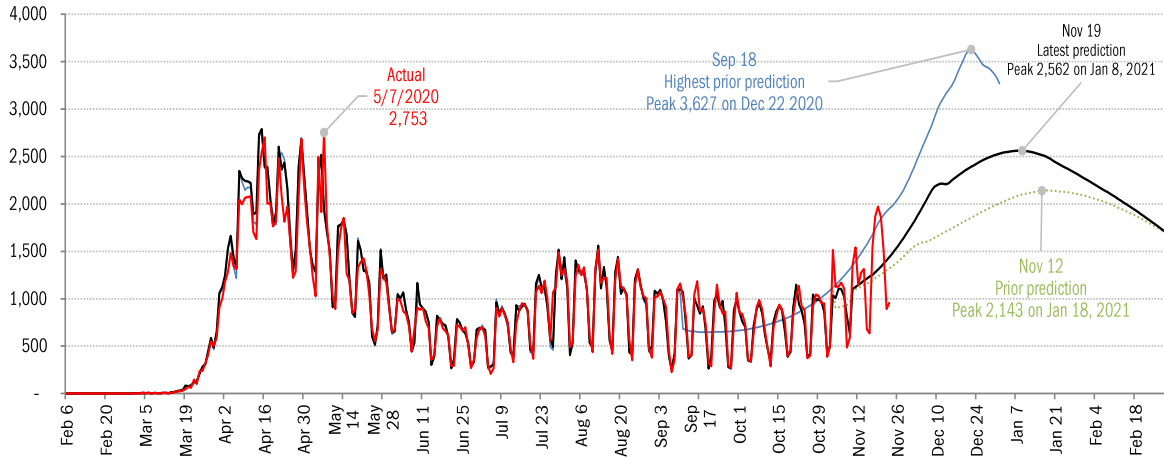
Source: [Covid Tracking Project](#), TrendMacro calculations

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

New daily fatalities

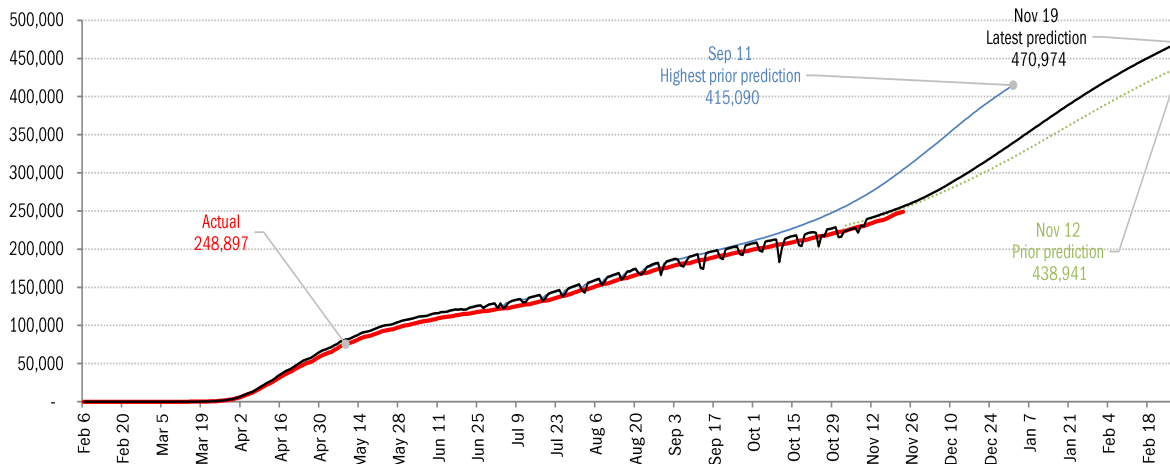
As of Nov 23

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

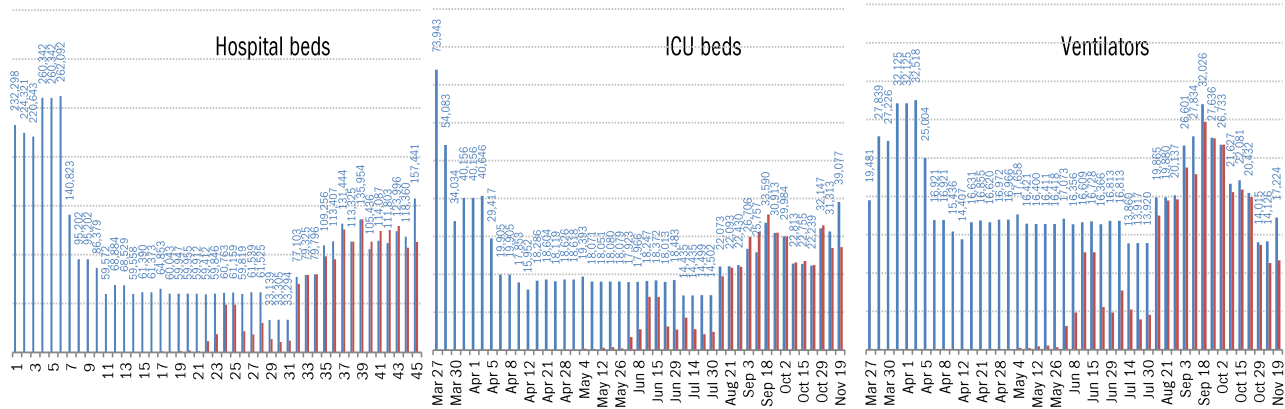


Cumulative fatalities

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

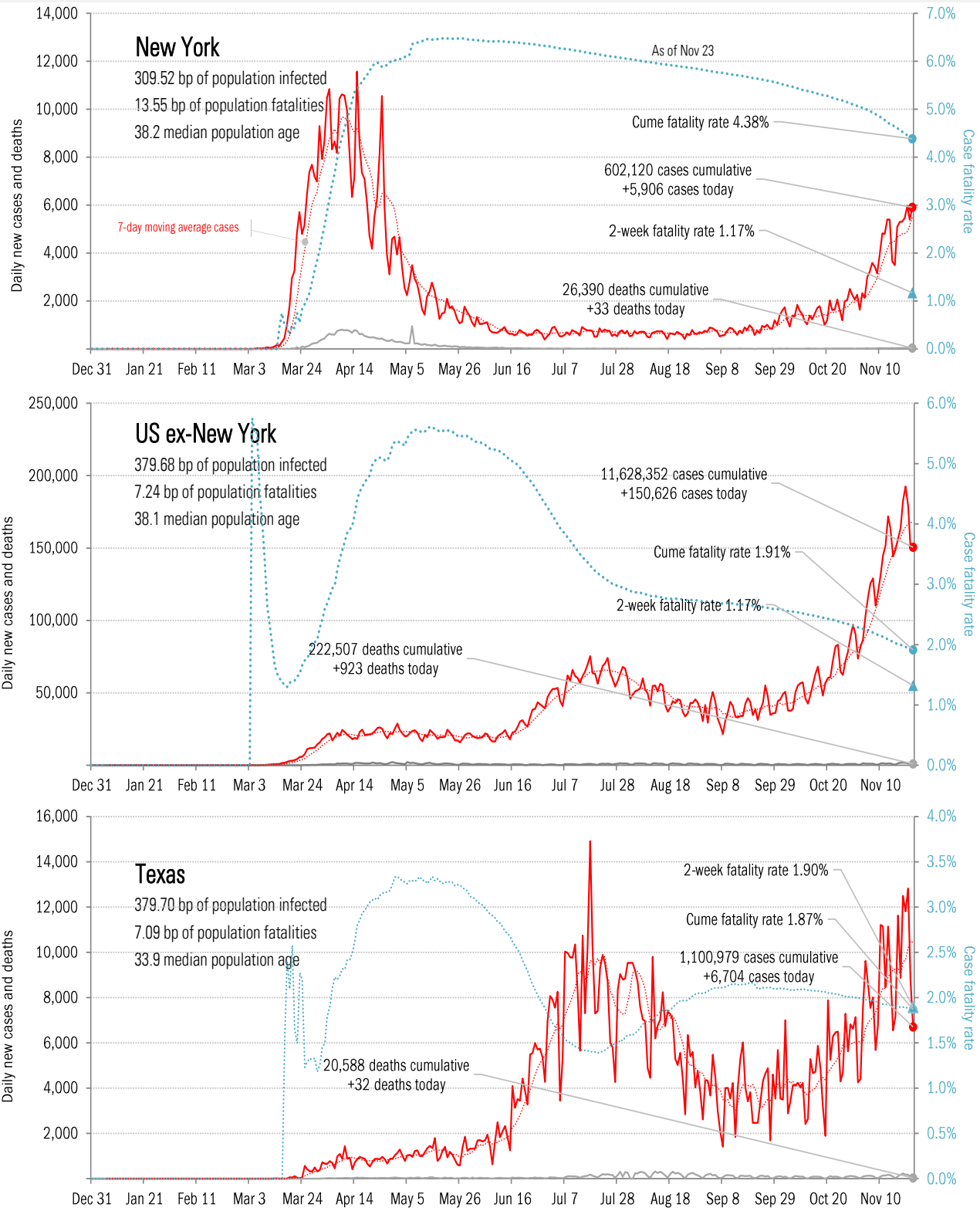


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



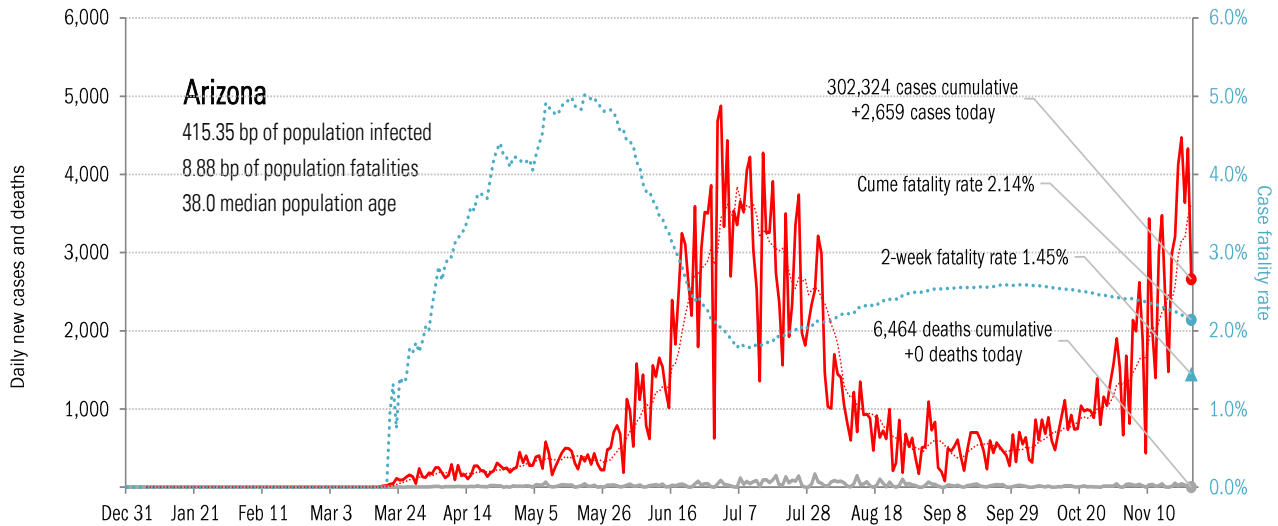
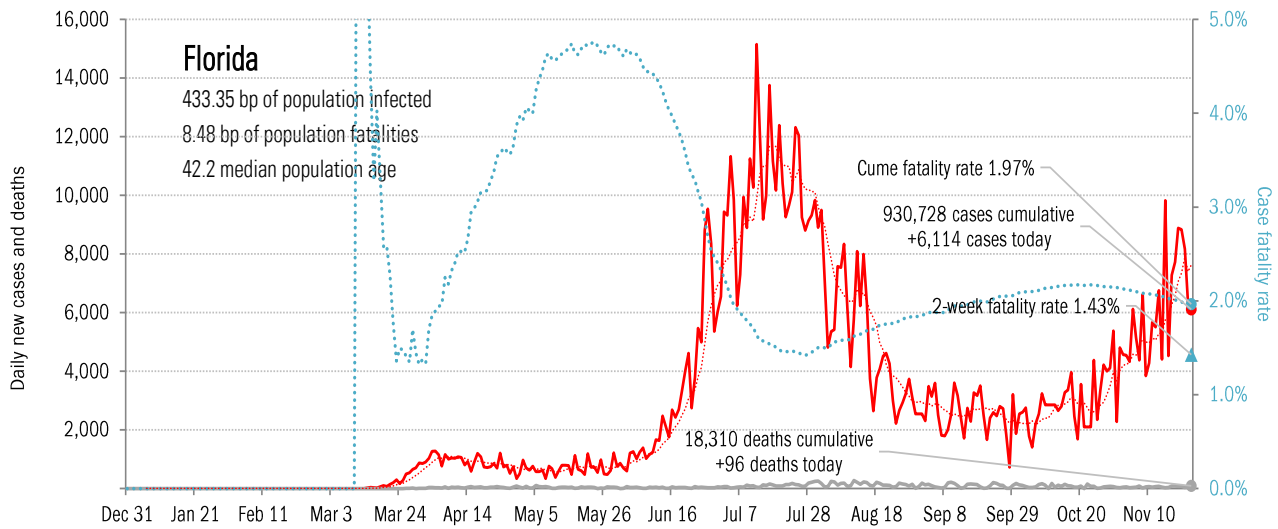
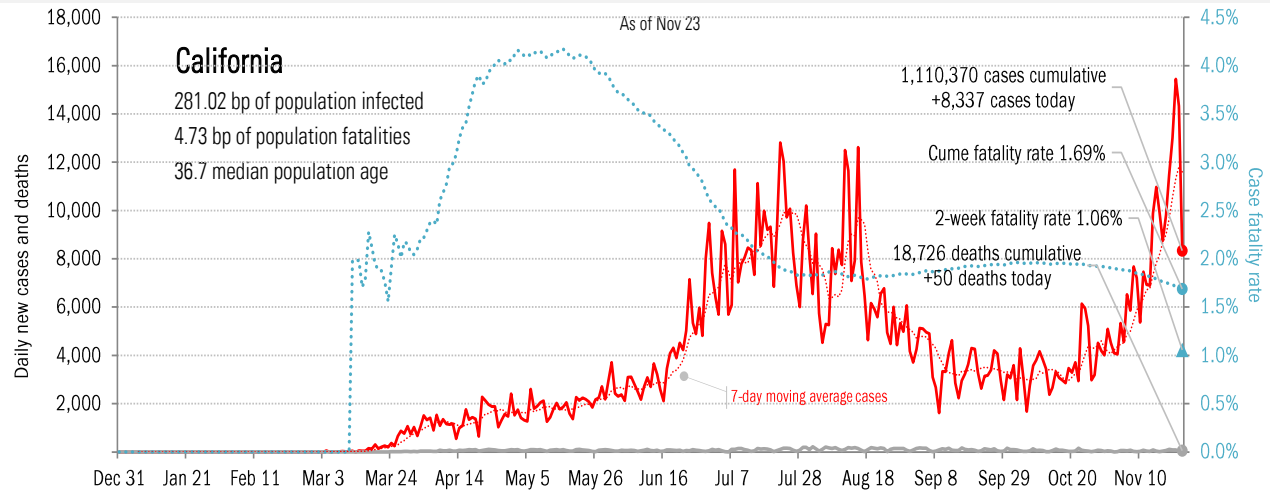
Source: [IHME](#), [Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



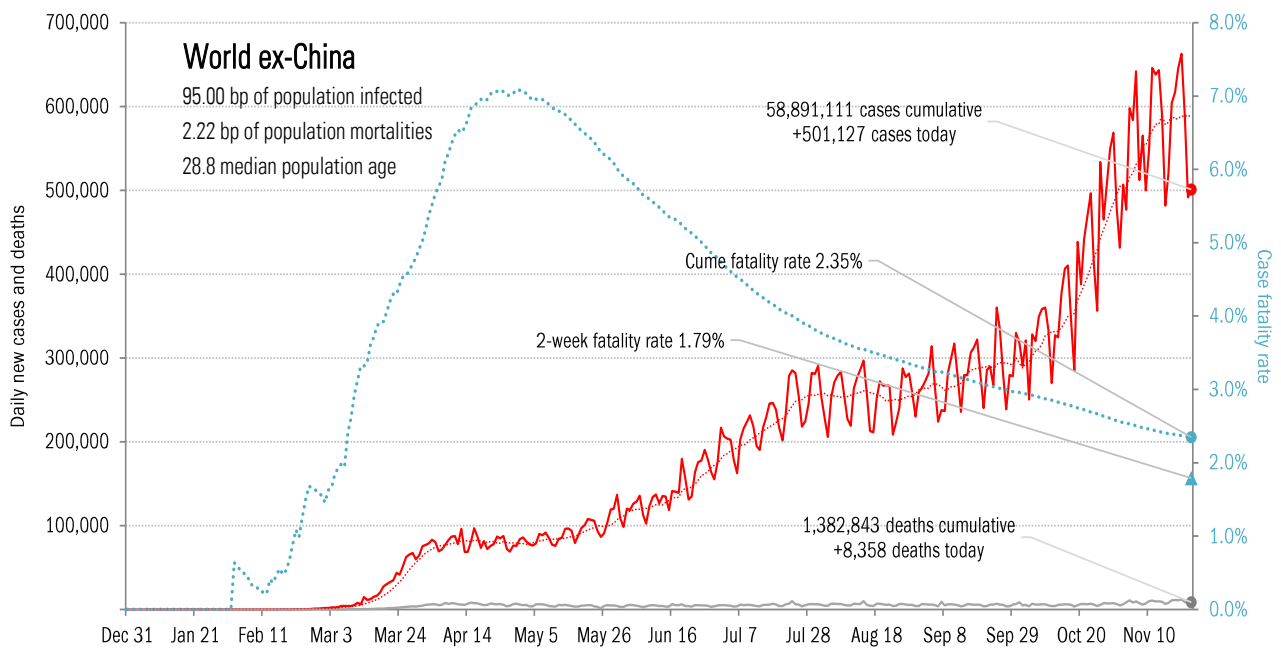
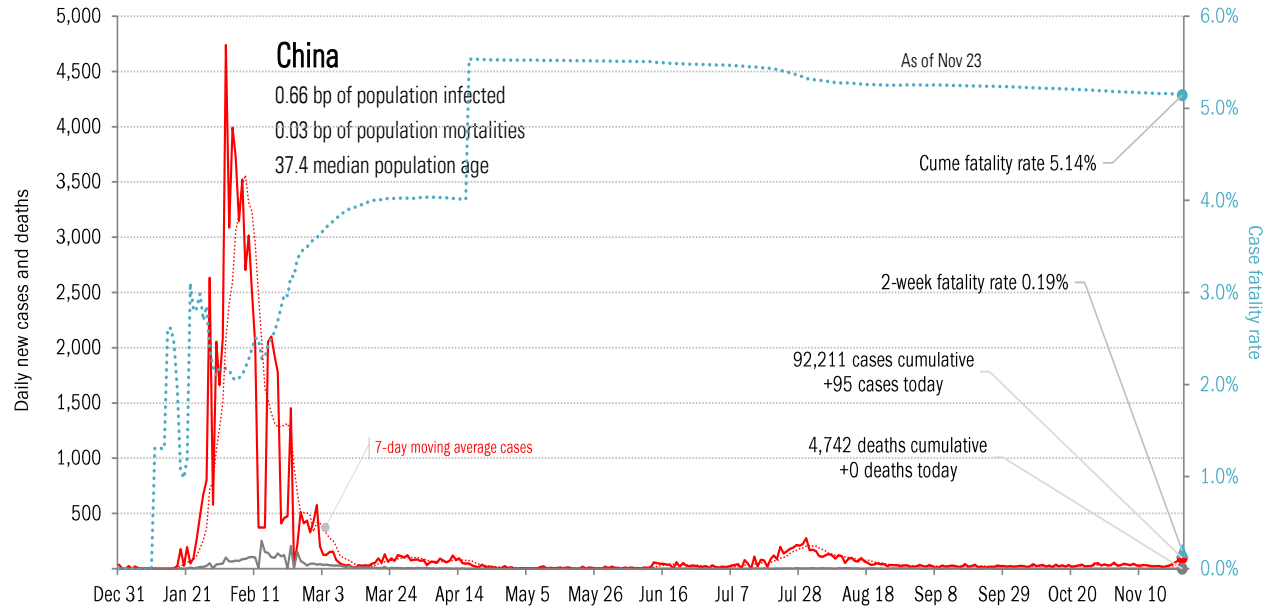
Source: [Covid Tracking Project](#), TrendMacro calculations

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



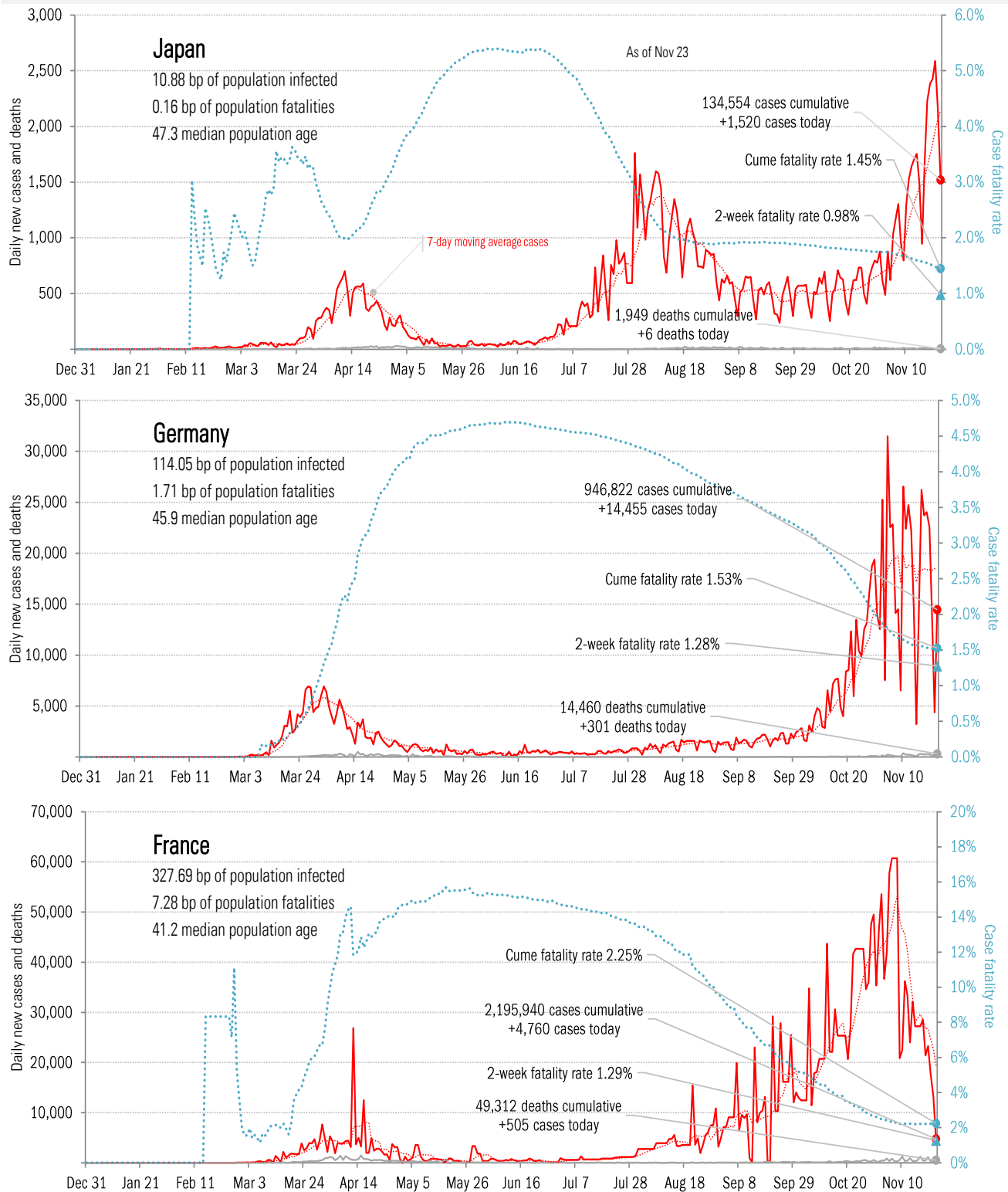
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



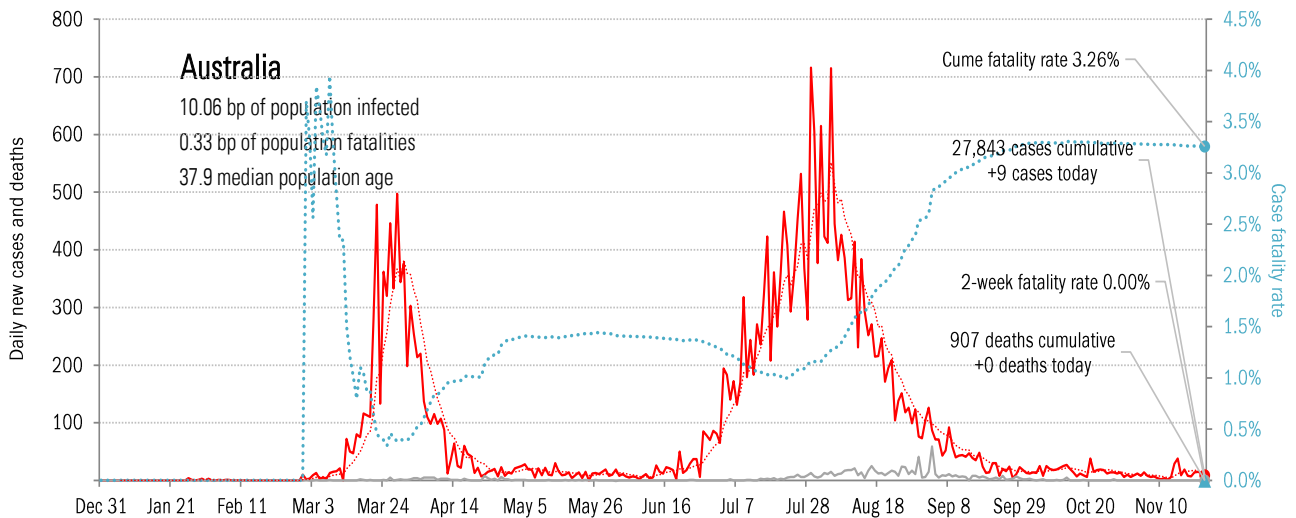
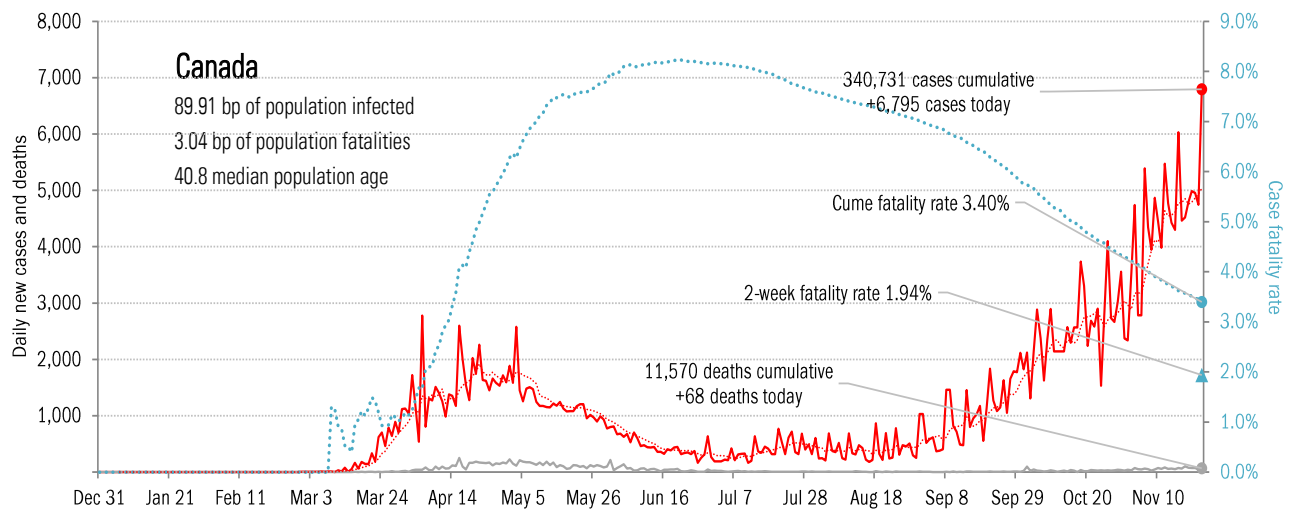
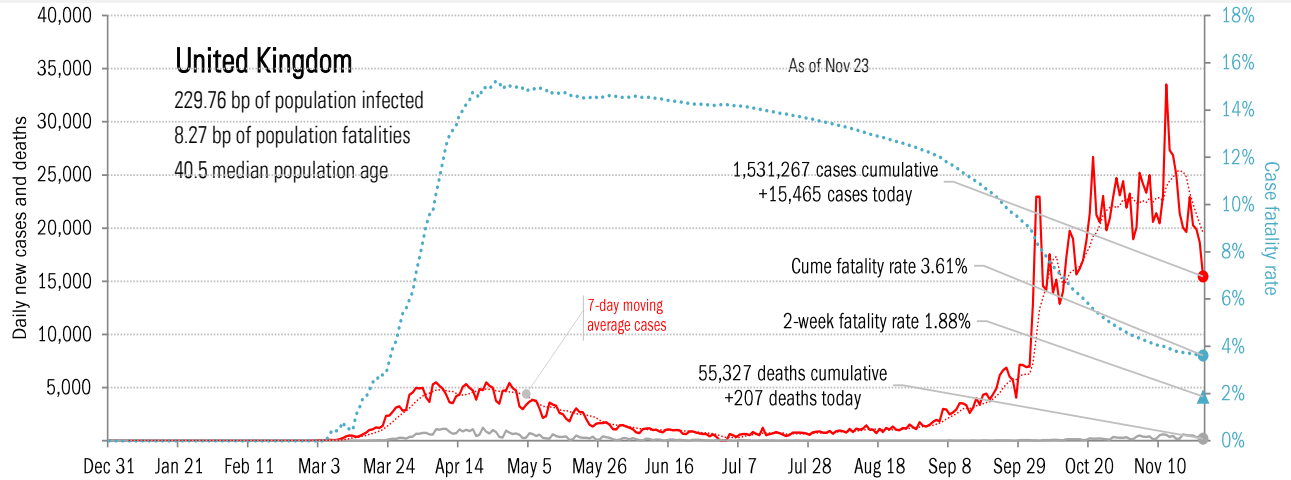
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



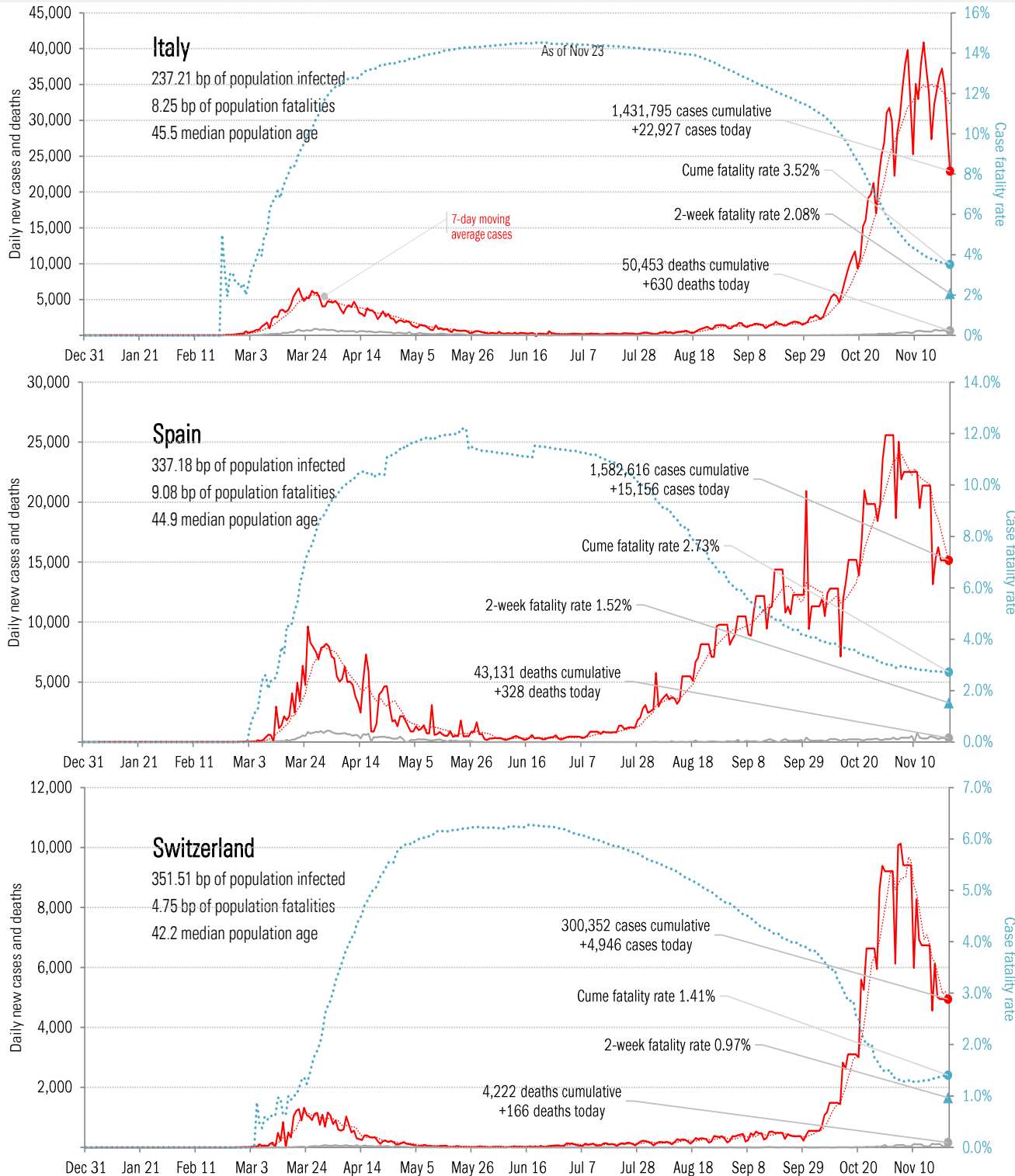
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



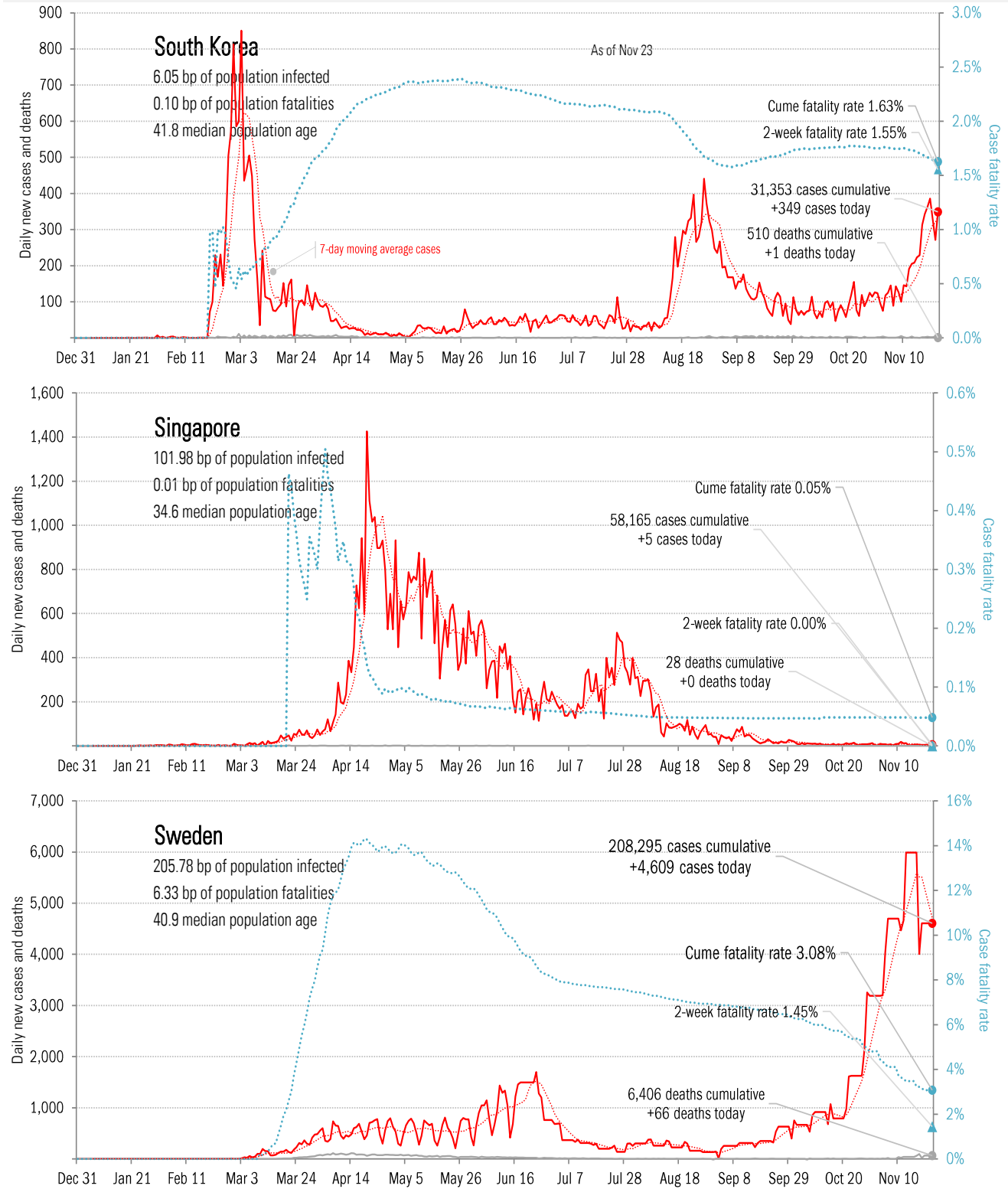
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



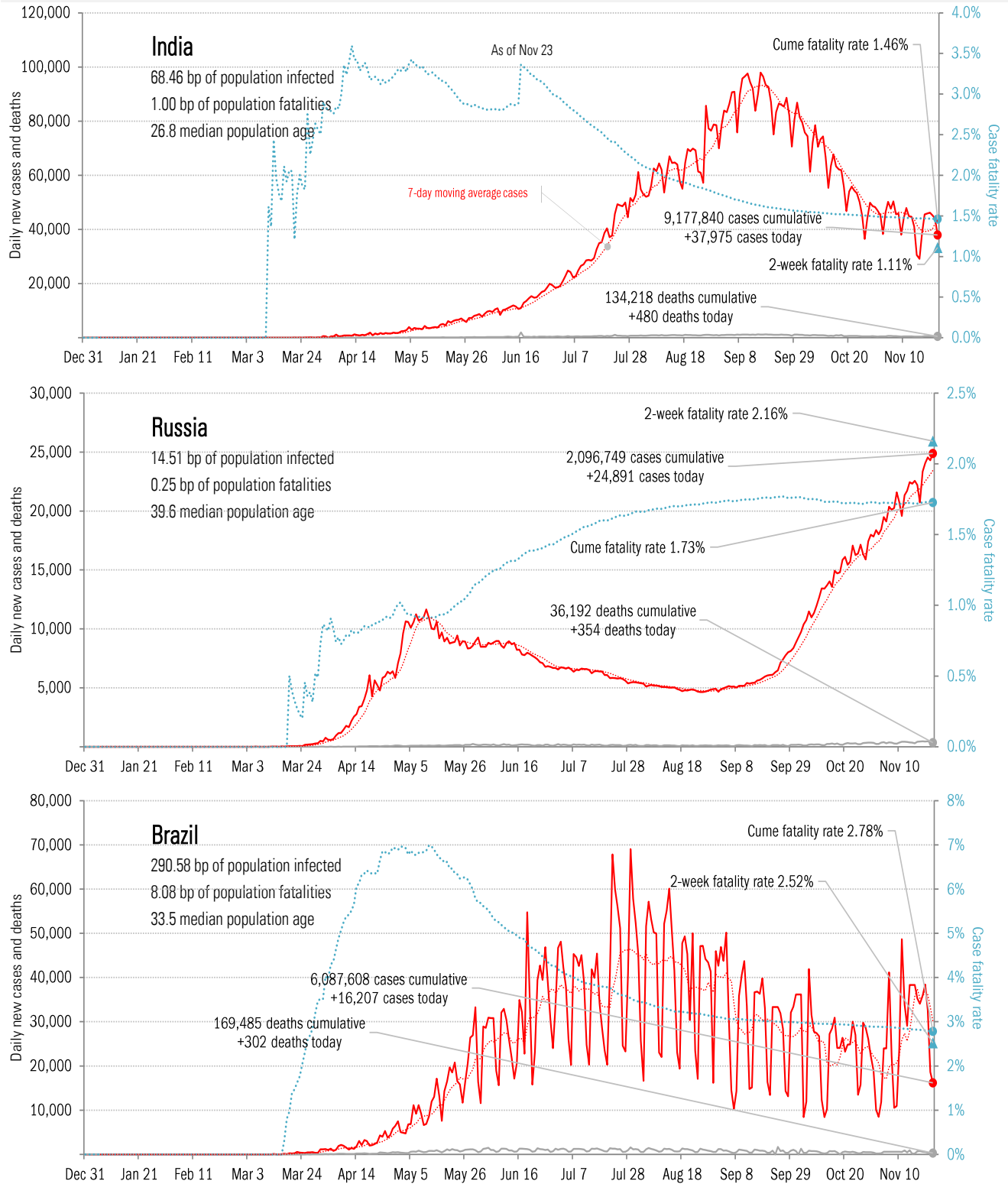
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



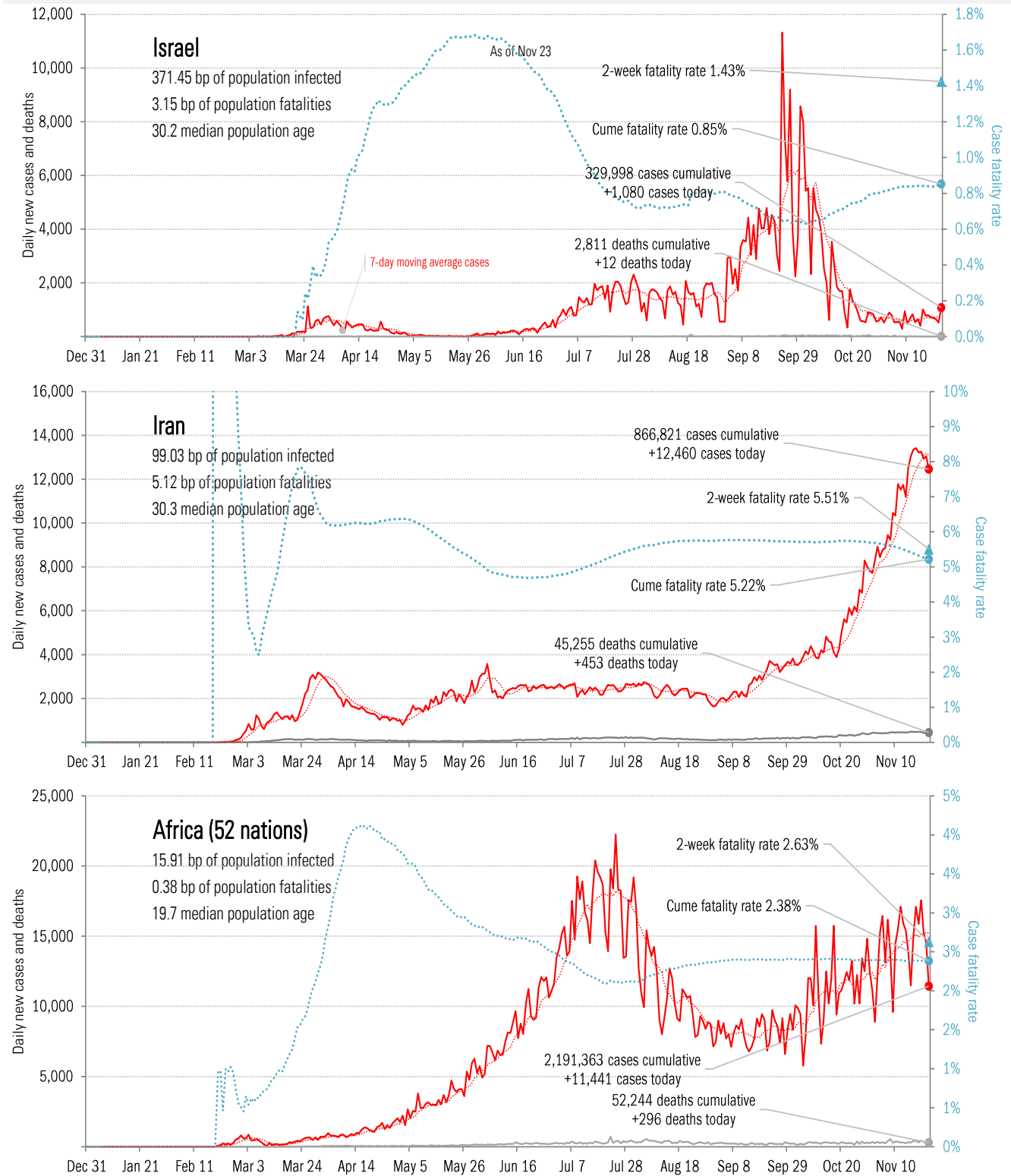
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



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

Impact in the Middle East and Africa



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