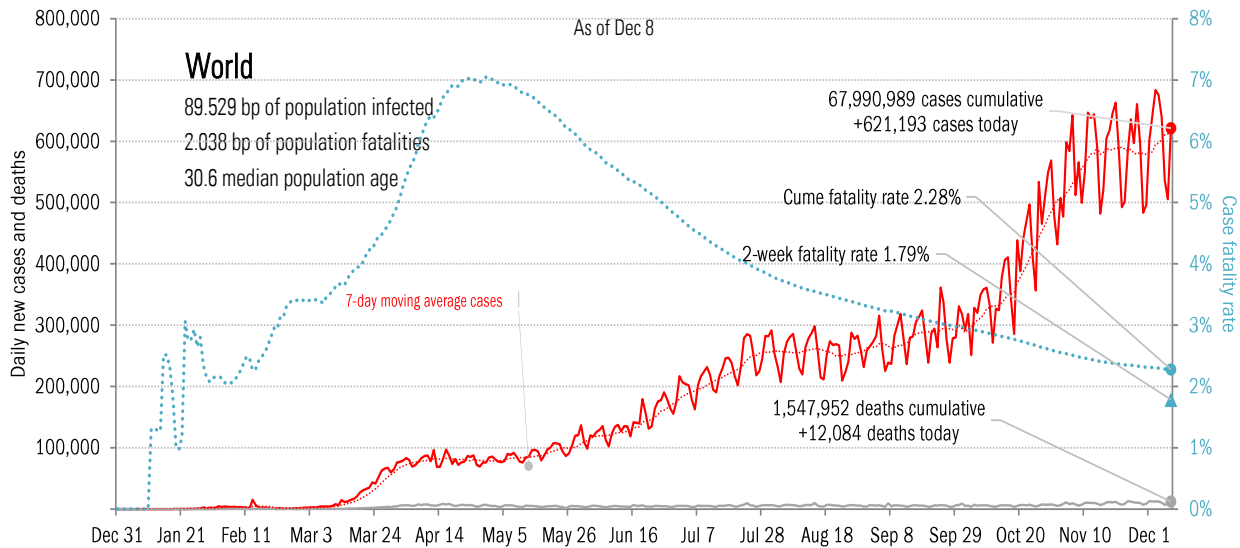
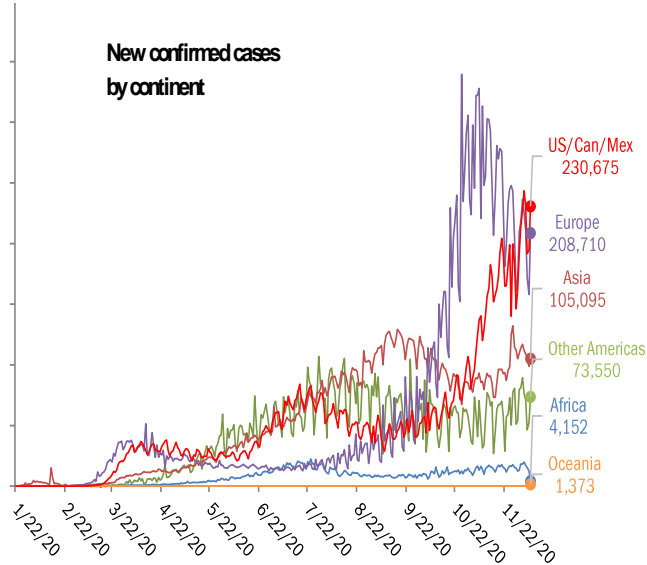


Data Insights: Covid-2019 Monitor

Wednesday, December 9, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+213,498	United States	+2,622
Brazil	+51,088	Brazil	+842
Turkey	+33,198	France	+840
India	+32,080	Mexico	+800
Germany	+29,263	Italy	+634
Russia	+25,752	United Kingdom	+599
Sweden	+18,820	Germany	+568
Italy	+14,837	Russia	+552
France	+14,137	Poland	+411
United Kingdom	+12,386	India	+402
+445,059		+8,270	
World	+621,193	World	+12,084
Top ten	72%	Top ten	68%



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

For more information contact us:

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The US scorecard

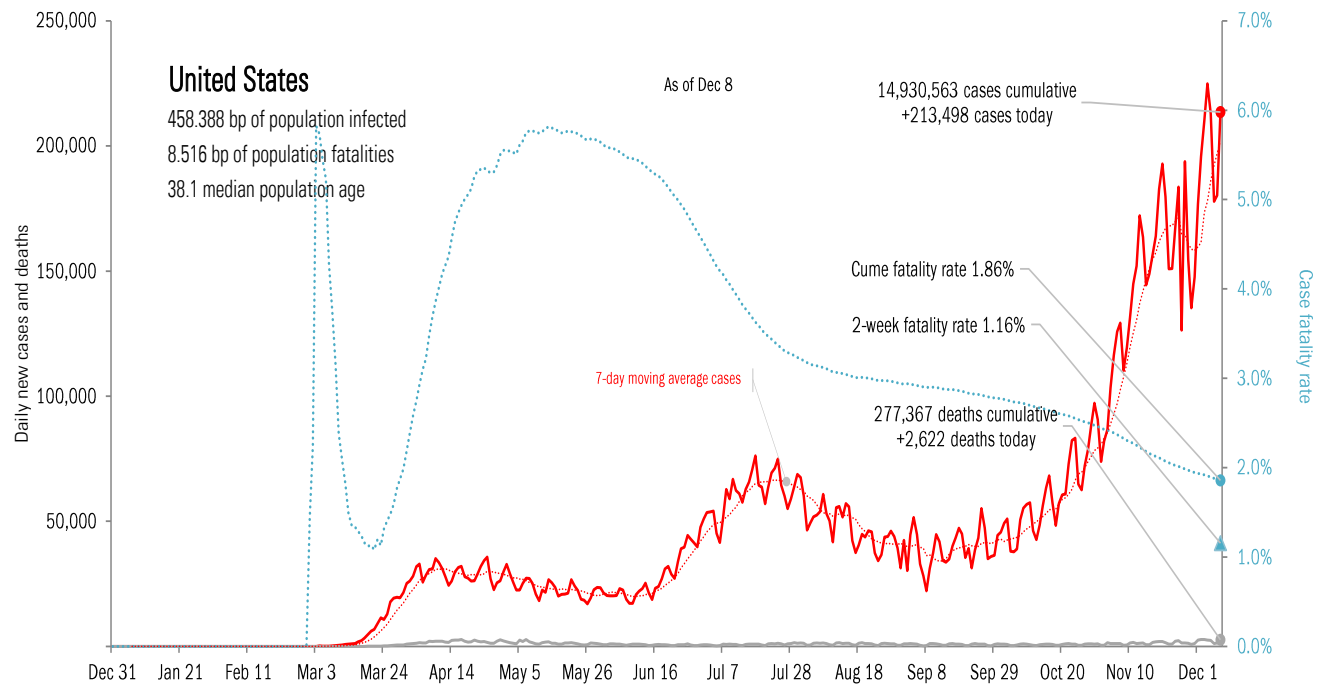
The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
CH	+25,721	MI	+203	CA	+513	CA	1,389,707	NY	27,307	NY	89,995
CA	+23,272	IA	+201	TX	+238	TX	1,272,504	TX	22,808	TX	57,647
TX	+14,290	TX	+181	NY	+233	FL	1,066,065	CA	20,047	NJ	42,819
AZ	+12,314	PA	+169	SC	+154	IL	804,174	FL	19,627	GA	36,461
PA	+10,170	IL	+168	PA	+140	NY	722,464	NJ	17,426	CH	30,226
NY	+9,335	MO	+161	NJ	+135	CH	510,018	IL	14,384	IN	29,029
IL	+7,910	IN	+126	NC	+133	GA	452,369	PA	11,542	AZ	28,525
FL	+7,801	CA	+112	AZ	+98	WI	448,009	MA	11,076	AL	27,323
WA	+6,957	TN	+100	LA	+93	MI	443,076	MI	10,625	MD	22,421
MI	+6,676	FL	+98	MD	+92	PA	436,614	GA	9,873	MIN	18,594
+124,446		+1,519		+1,829		7,535,000		164,715		383,040	
All states	+213,498	All states	+2,622	All states	+2,452	All states	14,930,563	All states	277,367	All states	593,679
Top ten	58%	Top ten	58%	Top ten	75%	Top ten	50%	Top ten	59%	Top ten	65%

Some states not reporting

Five most improved US states

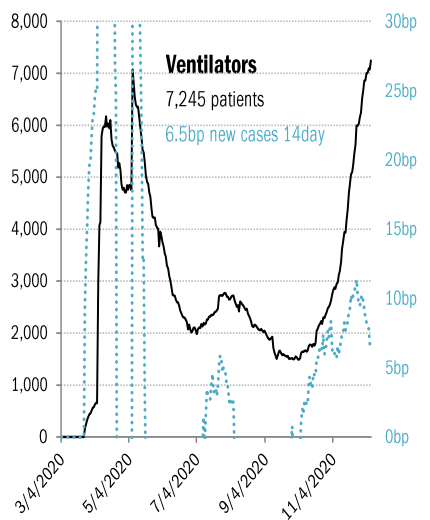
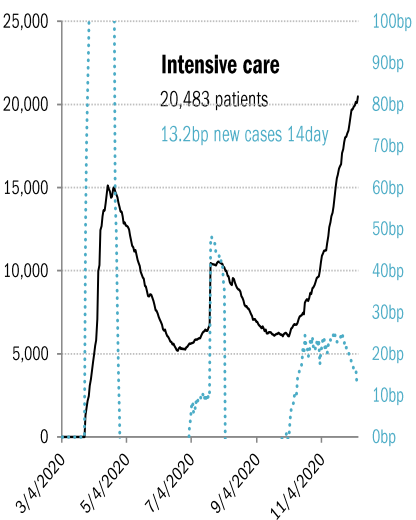
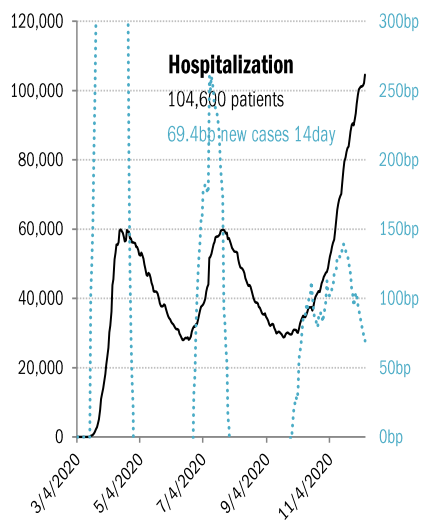
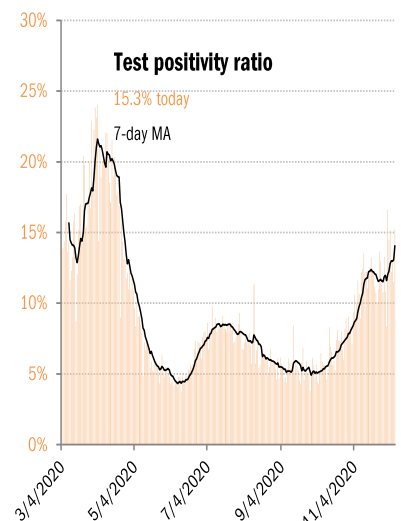
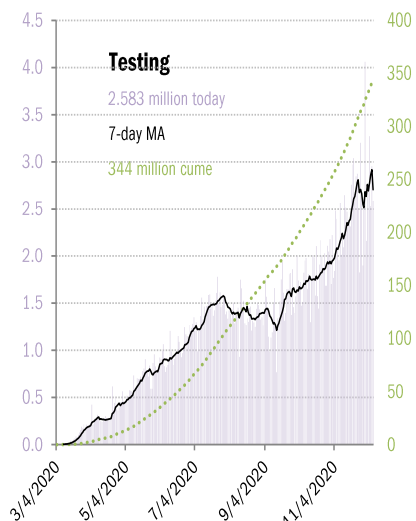
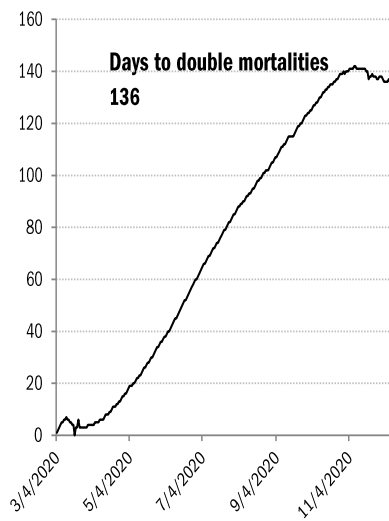
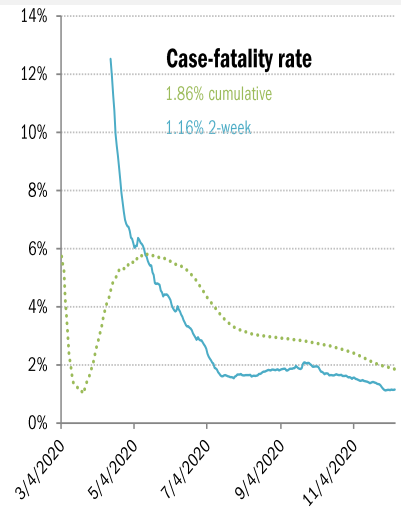
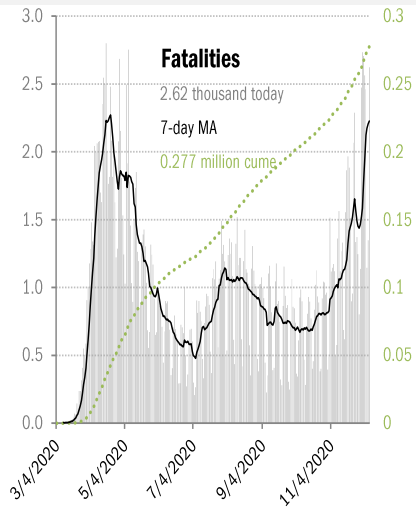
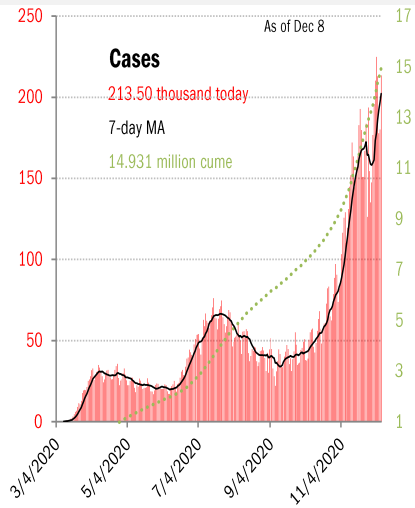
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
KS	-5,730	KS	-70	AL	-134	CH	+13,930
CT	-5,715	CT	-60	ID	-117	TX	+11,610
MI	-3,148	CO	-44	MA	-64	TN	+8,345
MN	-2,239	GA	-23	CO	-53	IA	+7,220
TN	-2,117	WY	-23	CR	-40	IN	+6,088



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

US deep-dive

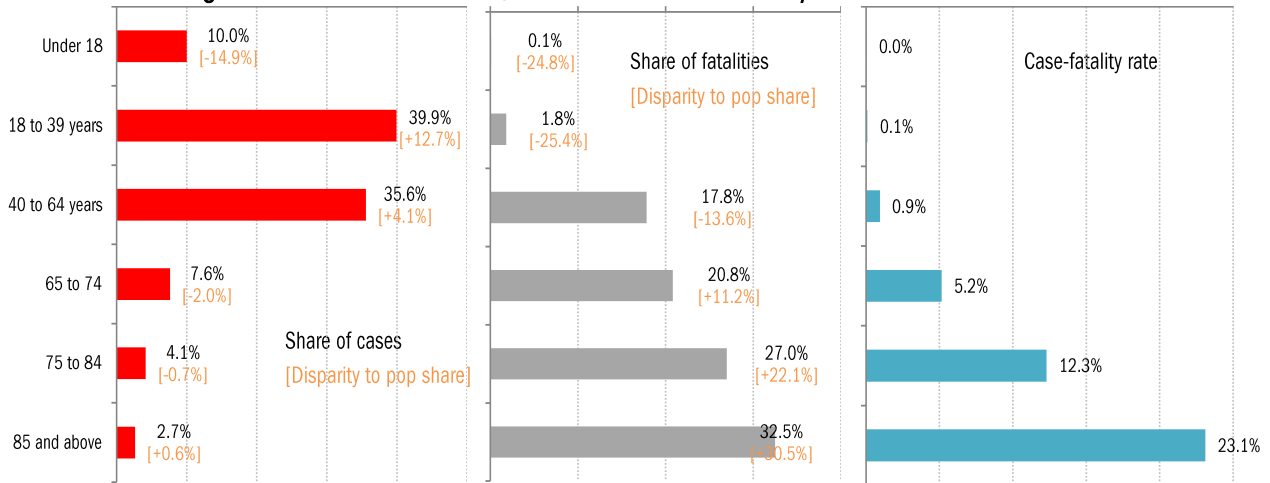
National and state-by-state data do not line up because of different sources



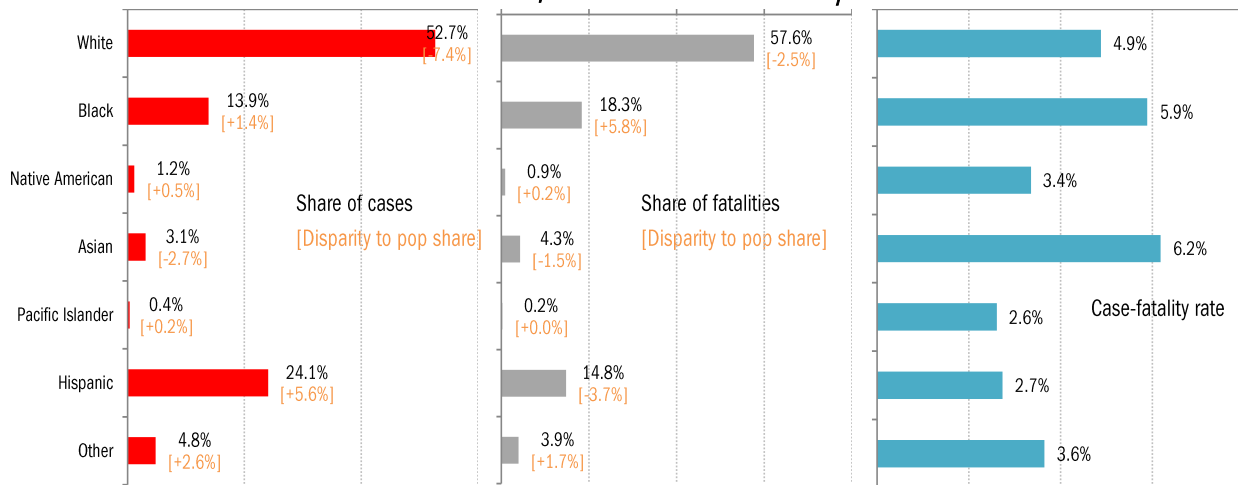
Source: [Covid Tracking Project](#), TrendMacro calculations

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

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

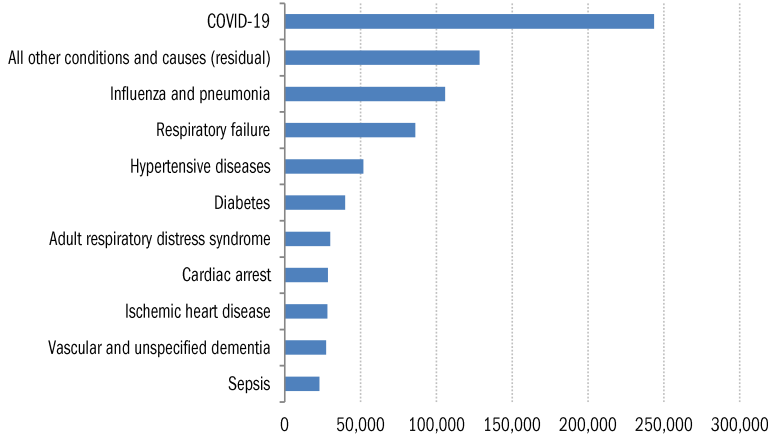


Racial distribution of US cases, fatalities and case-fatality rates



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

[Pfizer Shot Effective, Safe, FDA Staff Says Before Meeting](#)

Anna Edney
Bloomberg
December 8, 2020

[US teachers resist reopening schools despite European lessons](#)

Kiran Stacey, Bethan Staton and John Burn-Murdoch
Financial Times
December 6, 2020

[Covid and the New Age of Censorship](#)

Alex Berenson
Wall Street Journal
December 7, 2020

[SARS-CoV-2 Transmission among Marine Recruits during Quarantine](#)

Andrew G. Letizia et al.
New England Journal of Medicine
November 11, 2020

[AG Paxton Sues Battleground States for Unconstitutional Changes to 2020 Election Laws](#)

Texas Attorney General
December 8, 2020

[Texas AG Ken Paxton sues to overturn election results in 4 states Trump lost](#)

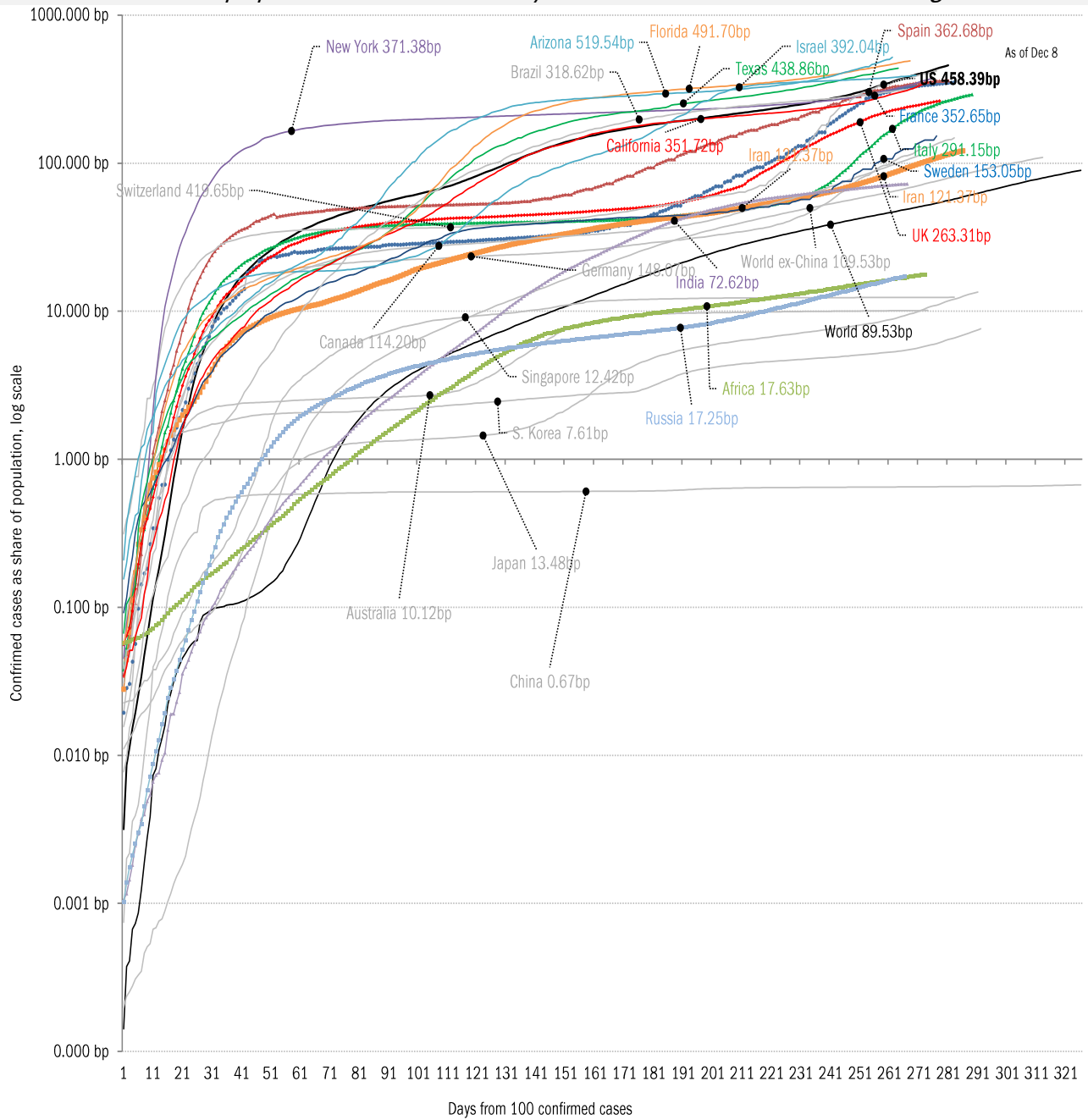
Taylor Goldenstein
Houston Chronicle
December 8, 2020

Meme of day



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

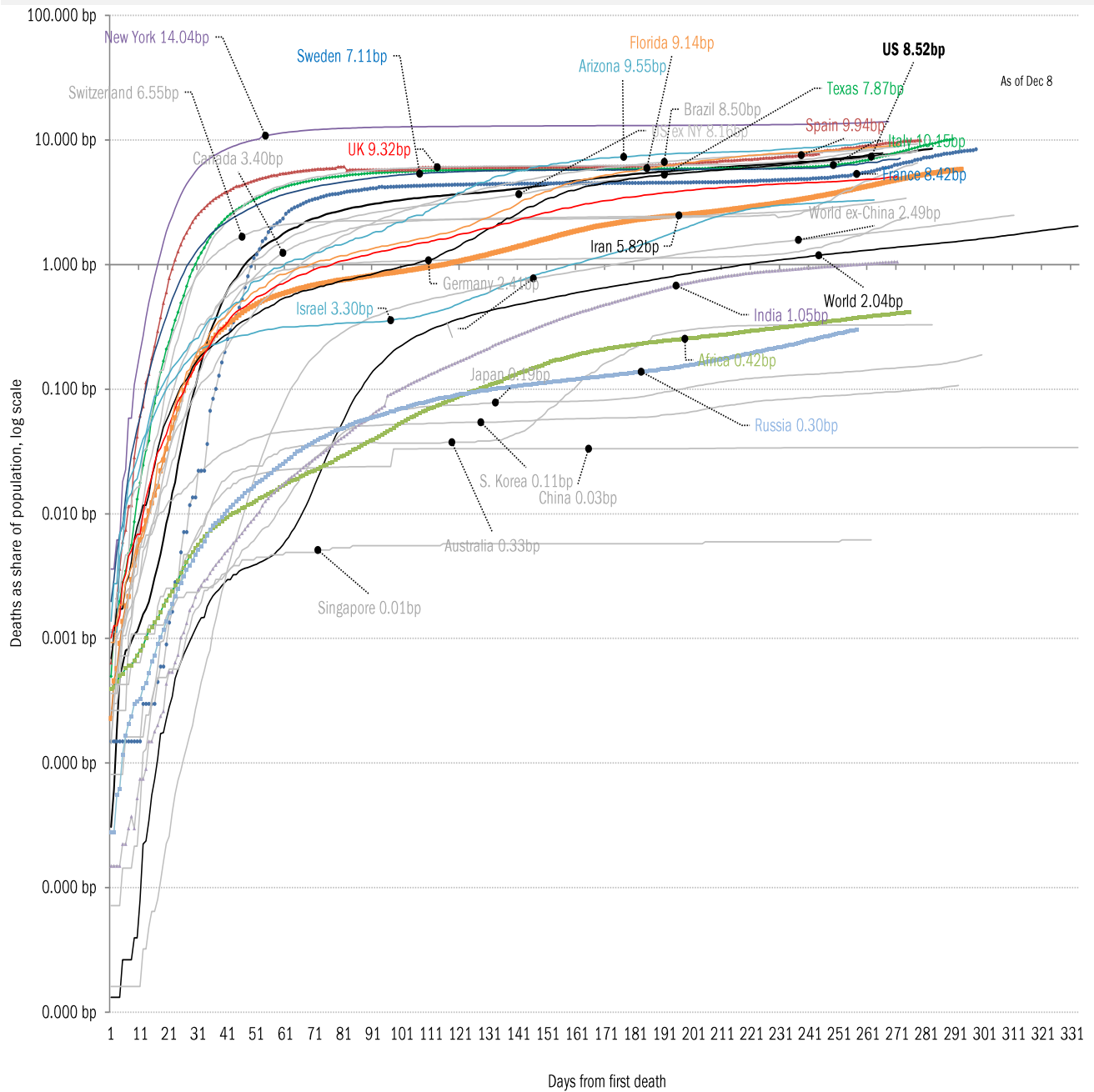
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

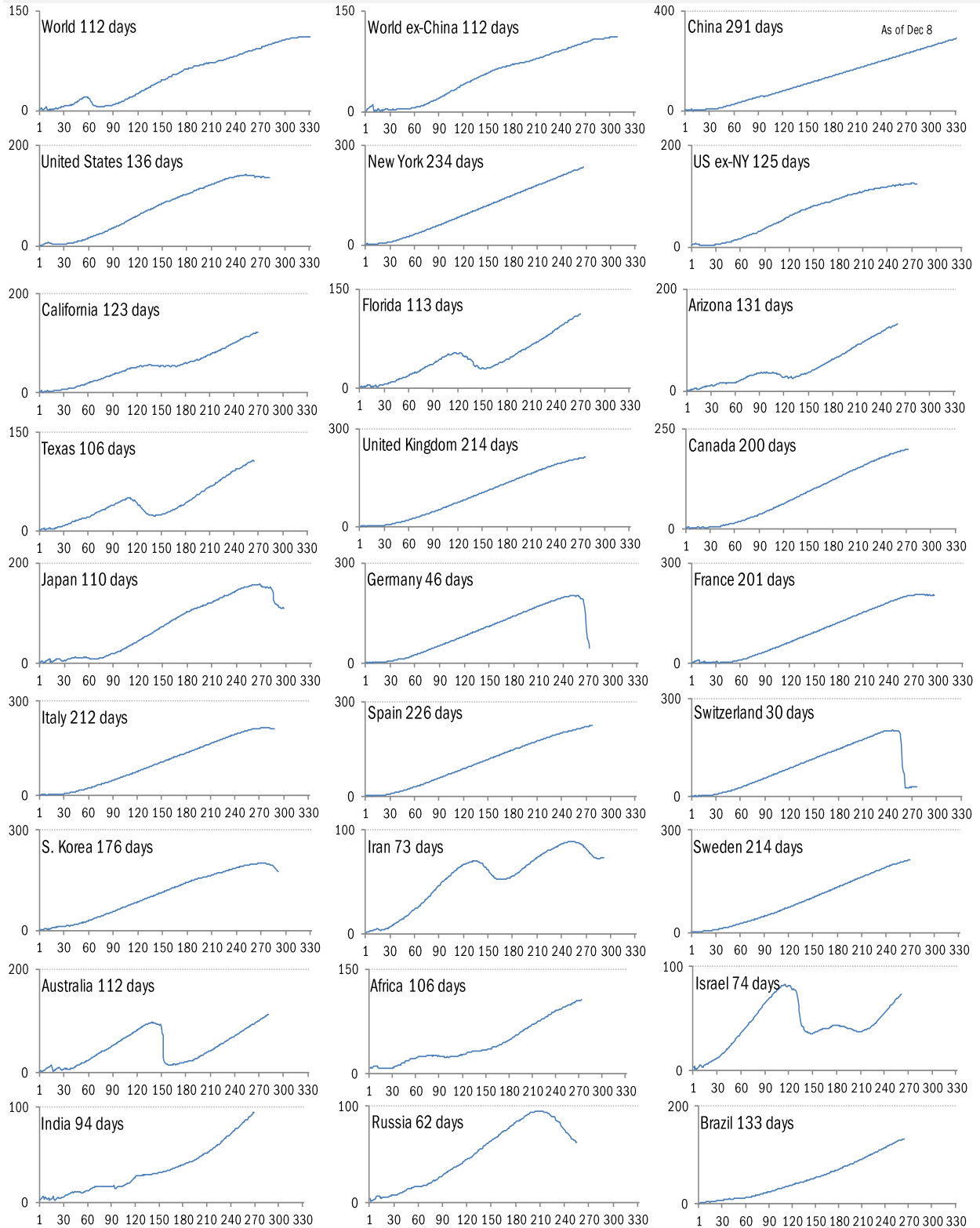


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

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

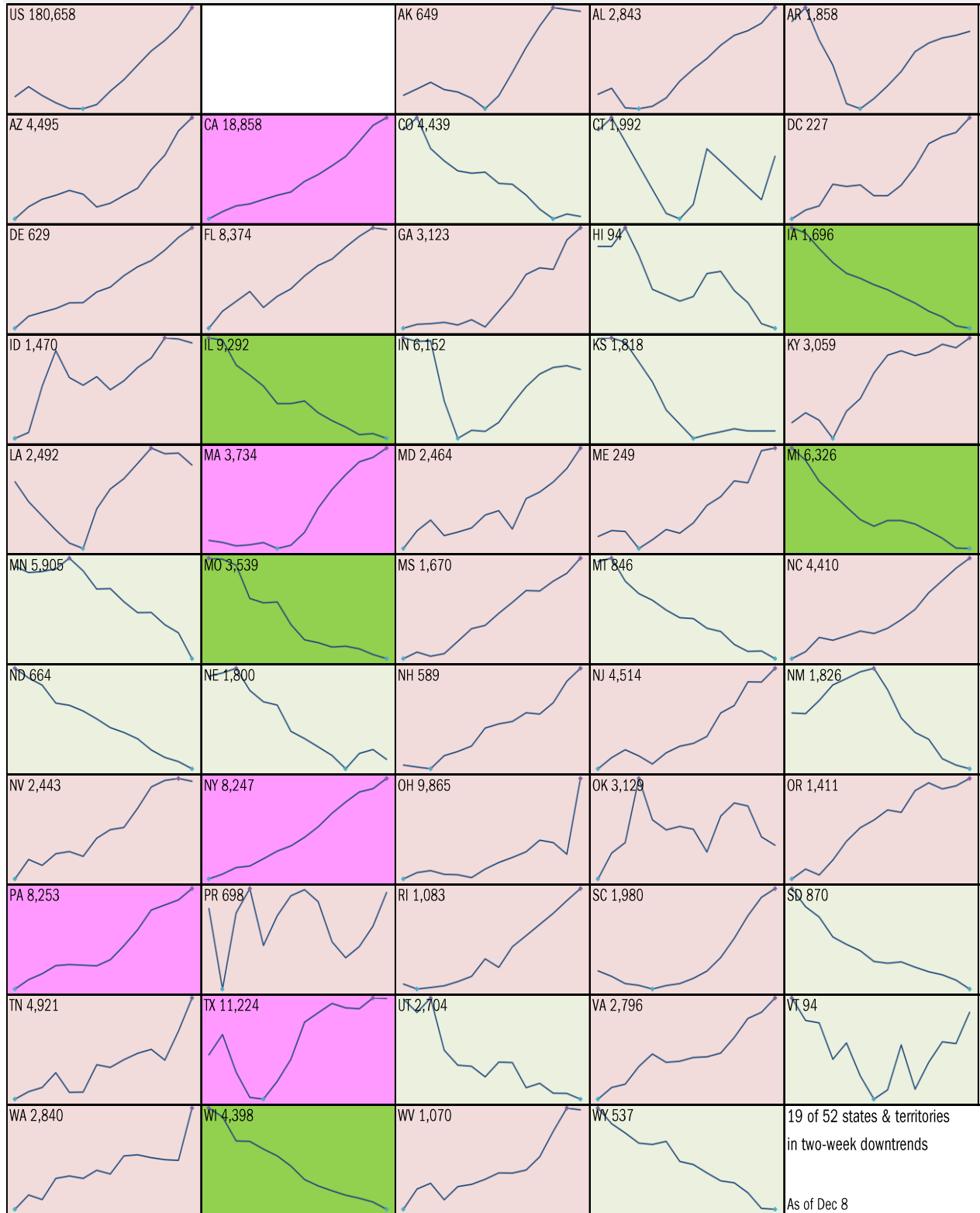
Vertical: days to double deaths Horizontal: days from first death

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

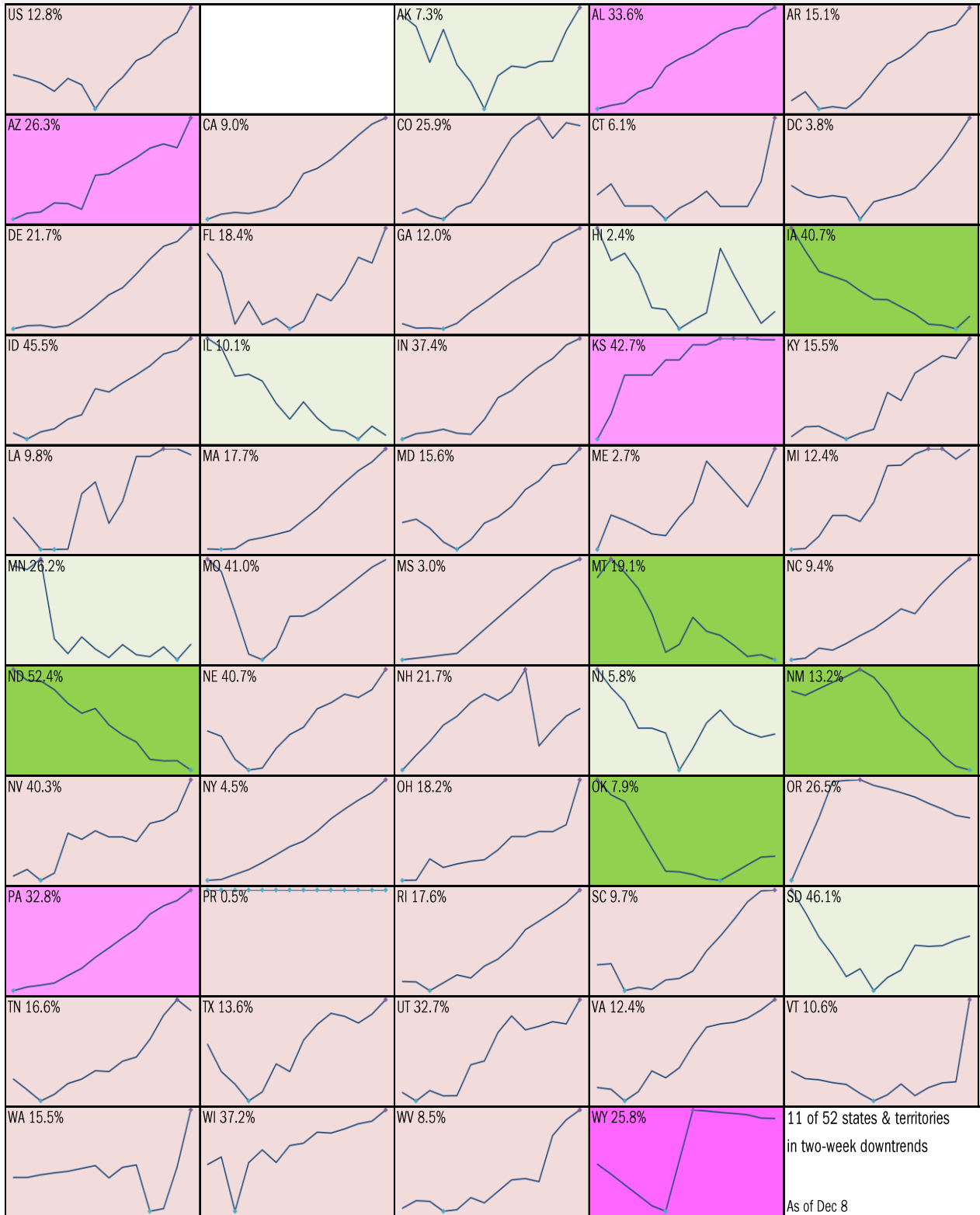


Source: [Covid Tracking Project](#), TrendMacro calculations

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



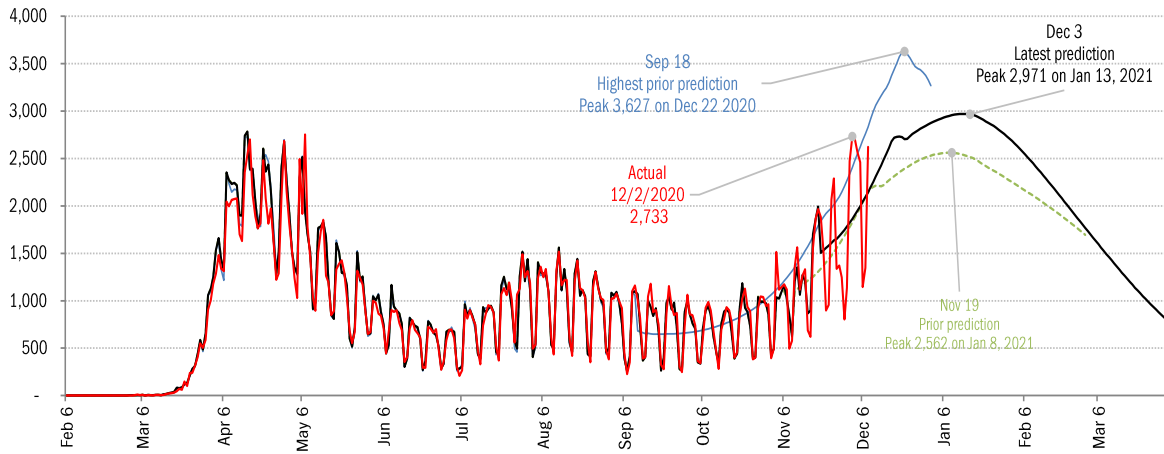
Source: [Covid Tracking Project](#), TrendMacro calculations

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

New daily fatalities

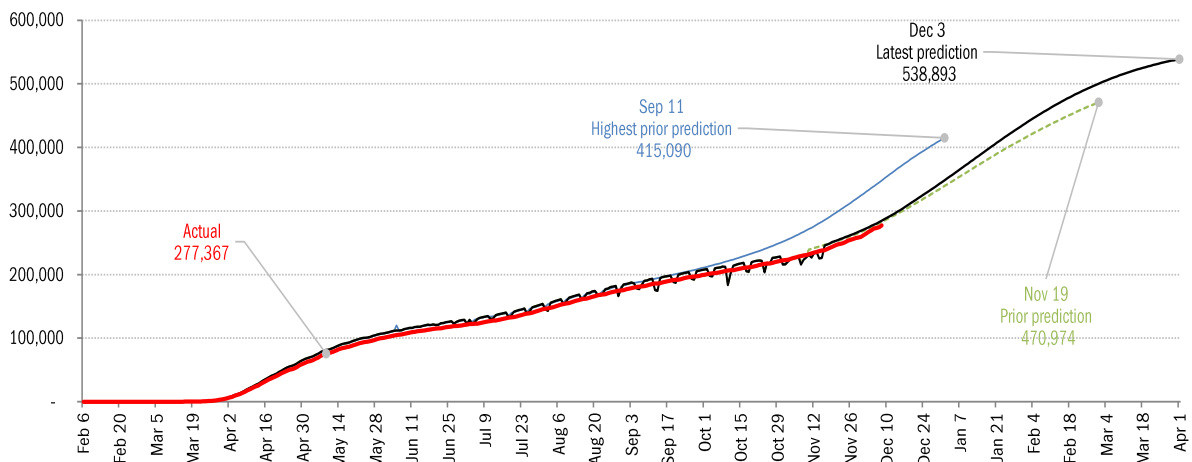
As of Dec 8

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

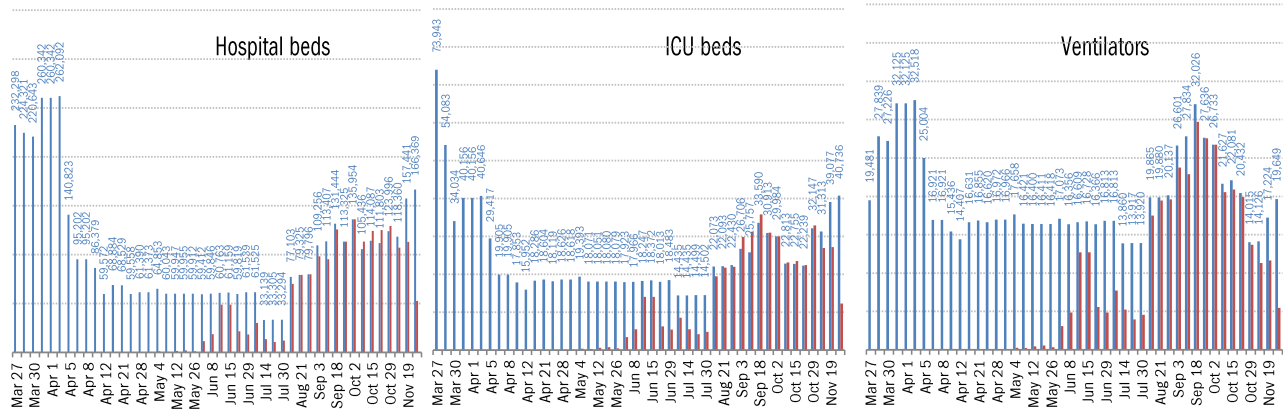


Cumulative fatalities

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

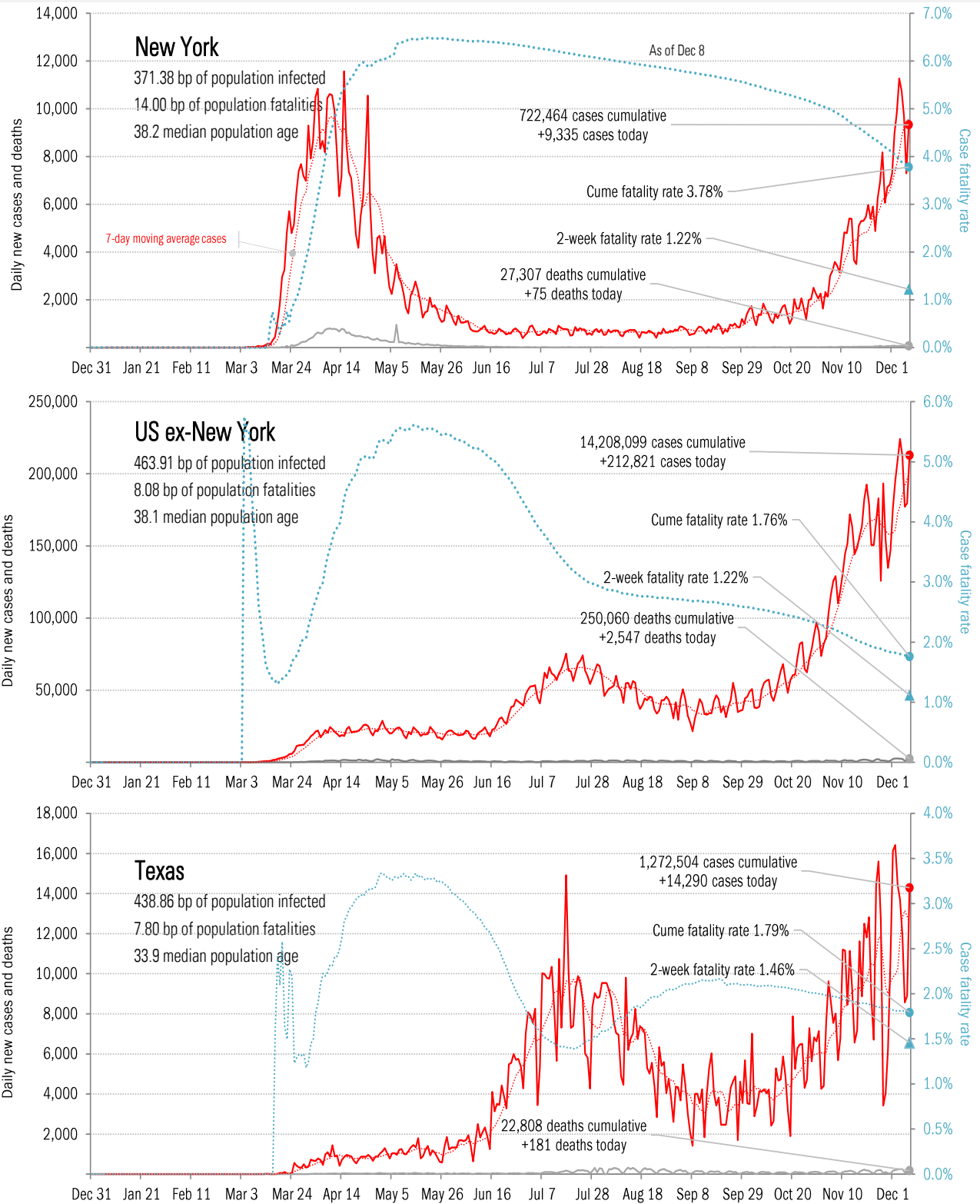


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



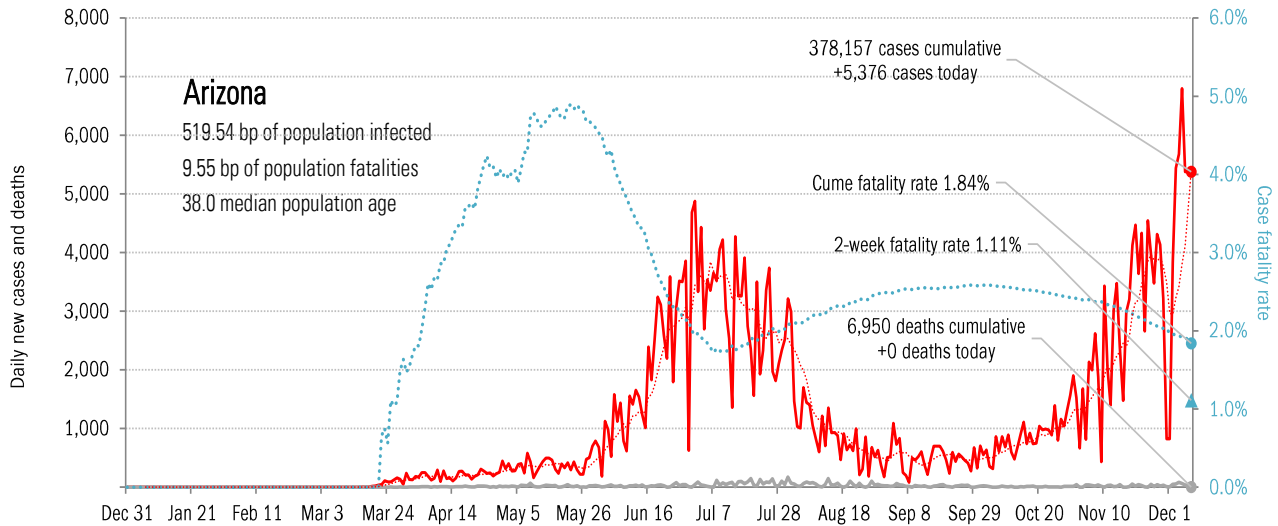
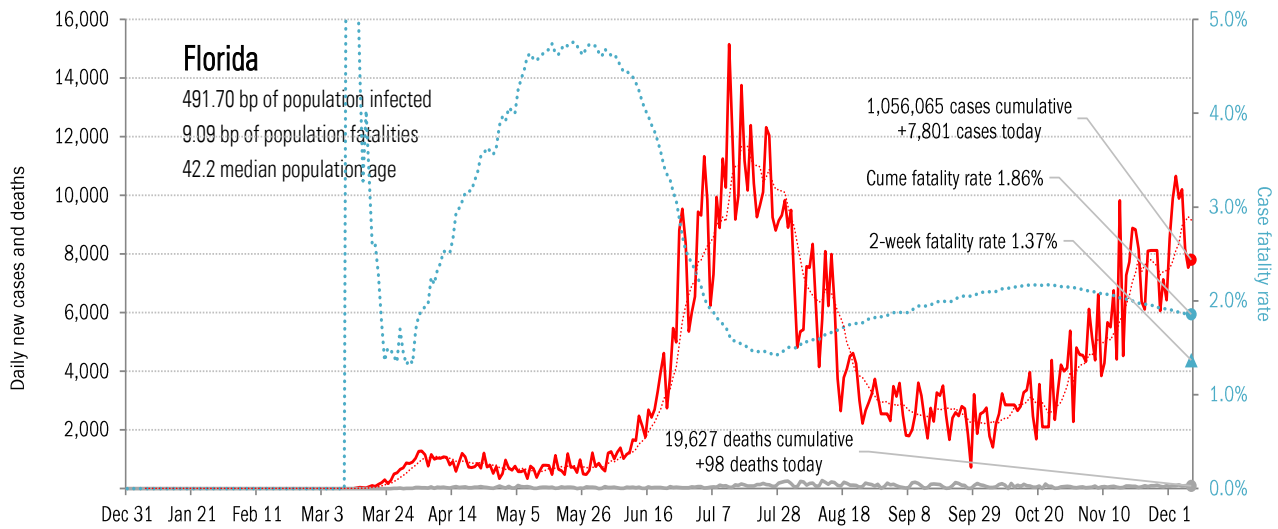
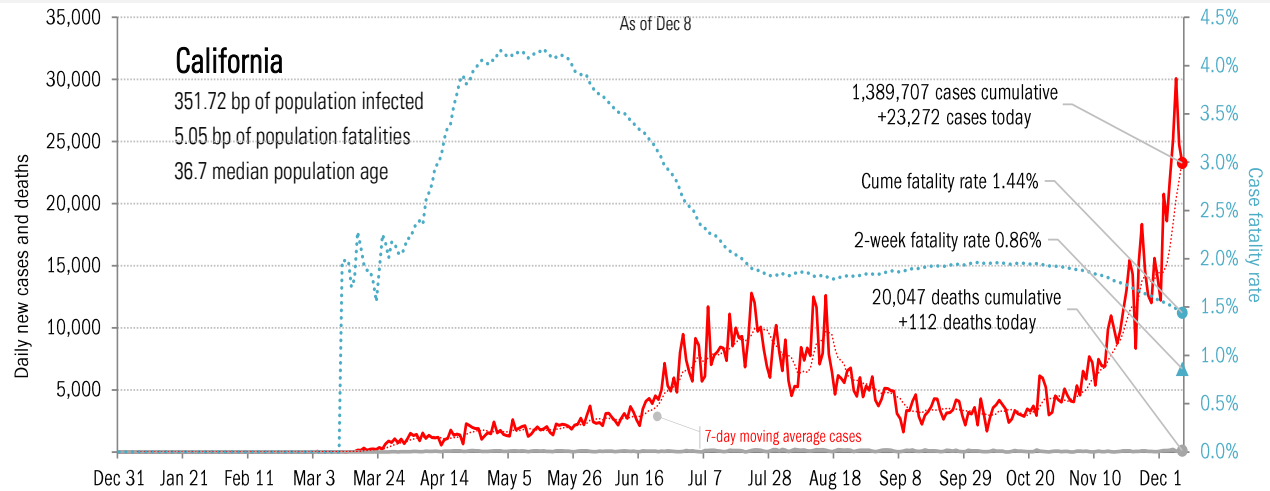
Source: [IHME](#), [Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



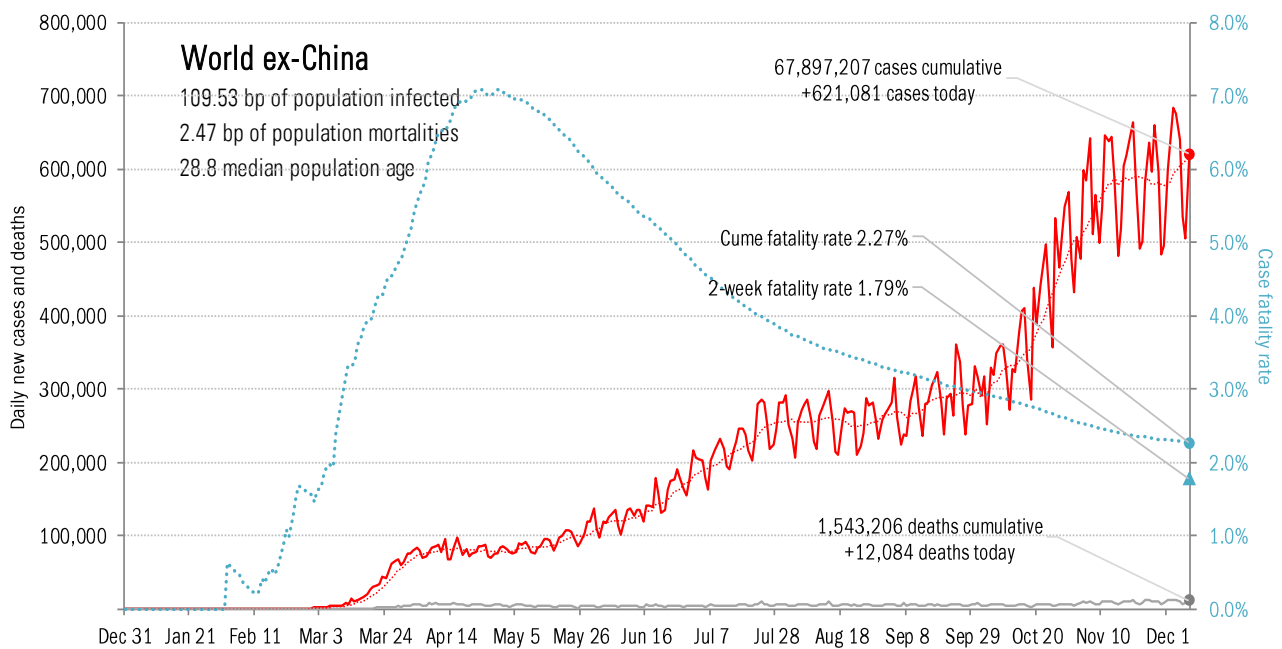
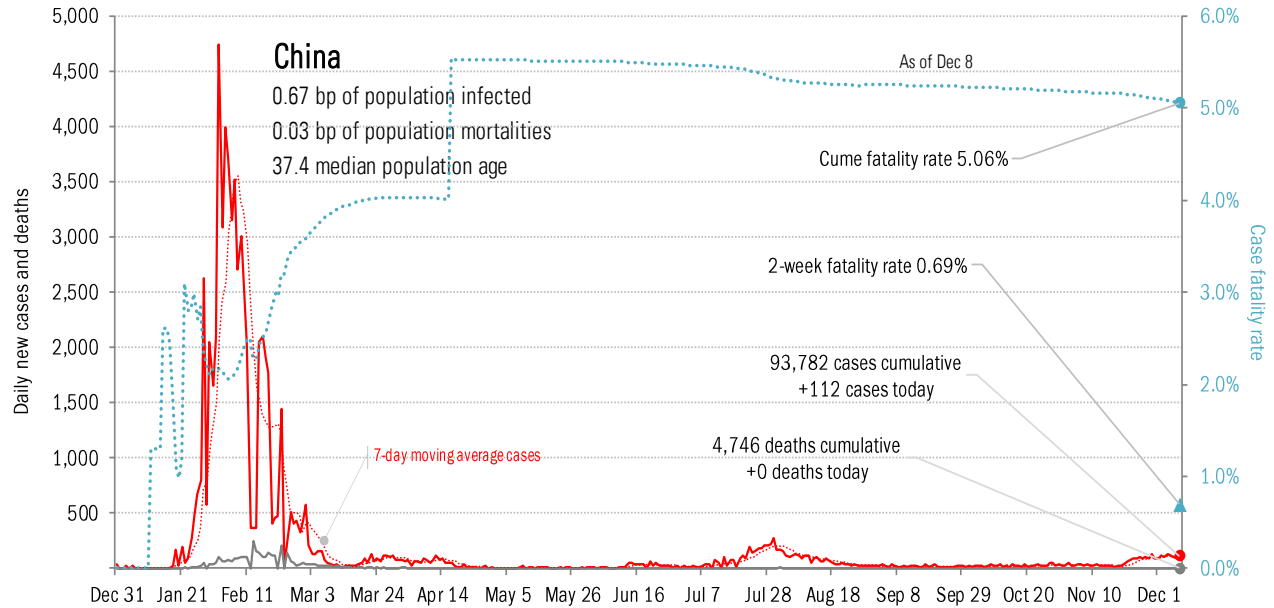
Source: [Covid Tracking Project](#), TrendMacro calculations

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



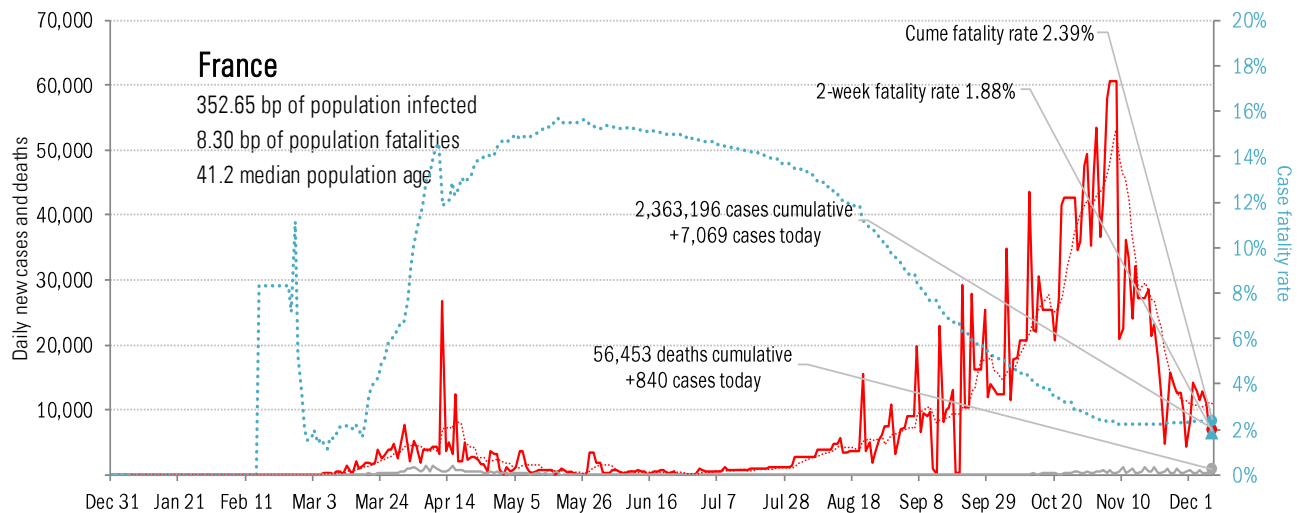
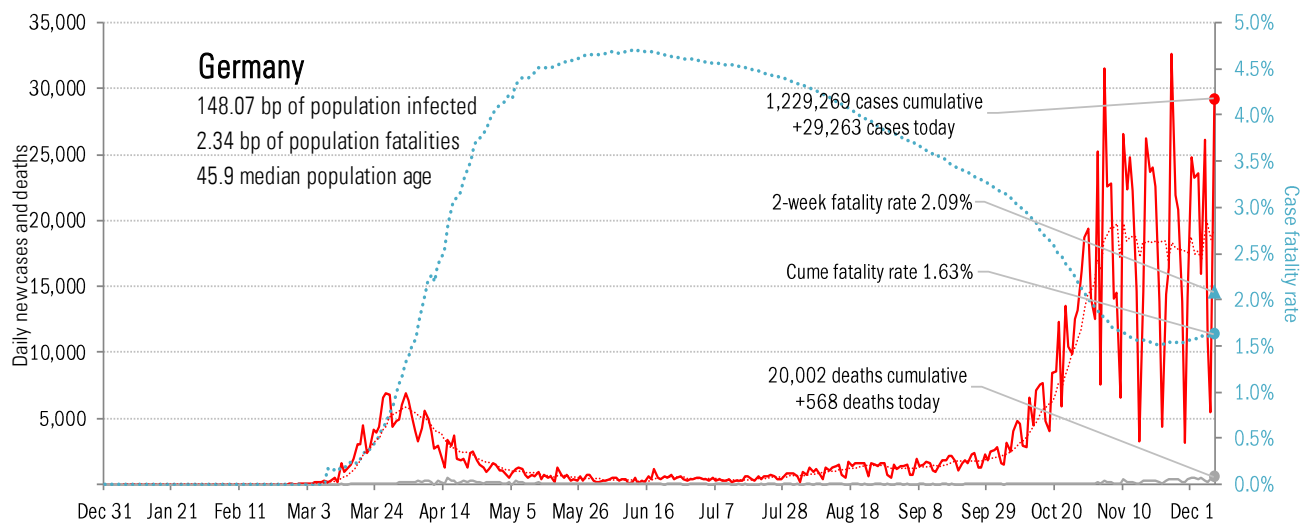
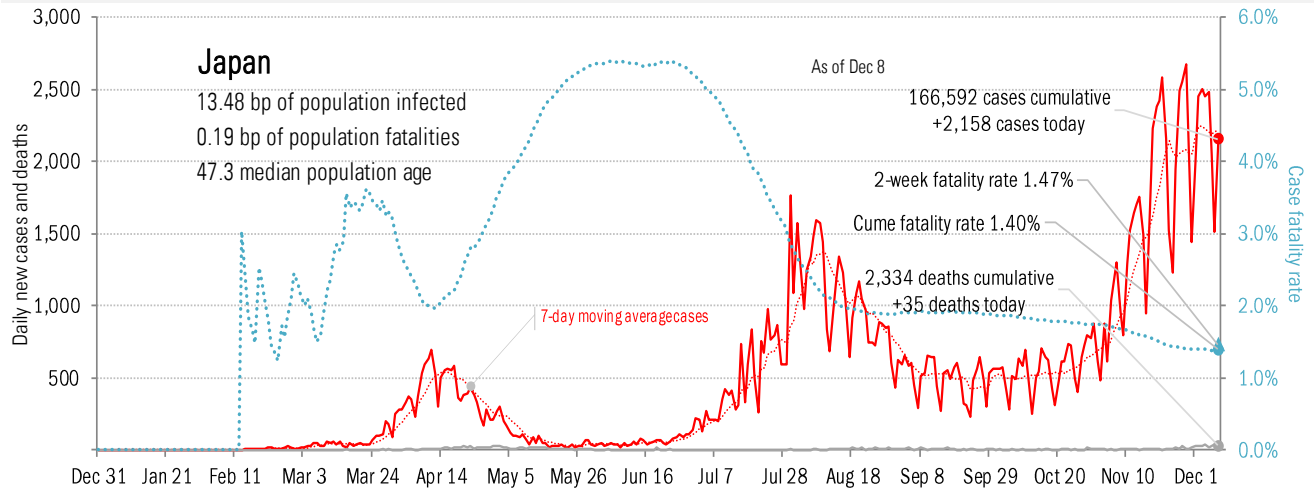
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



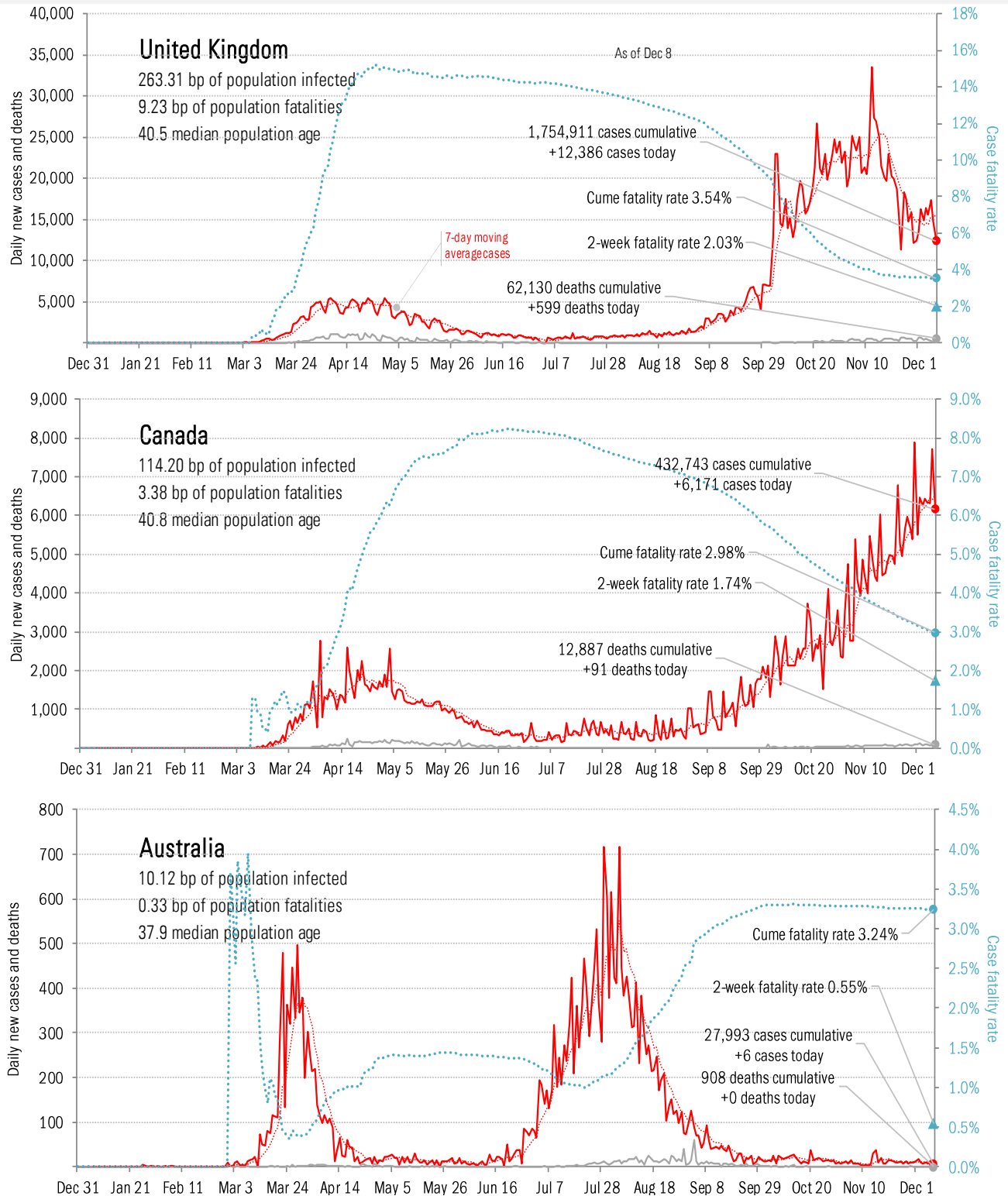
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



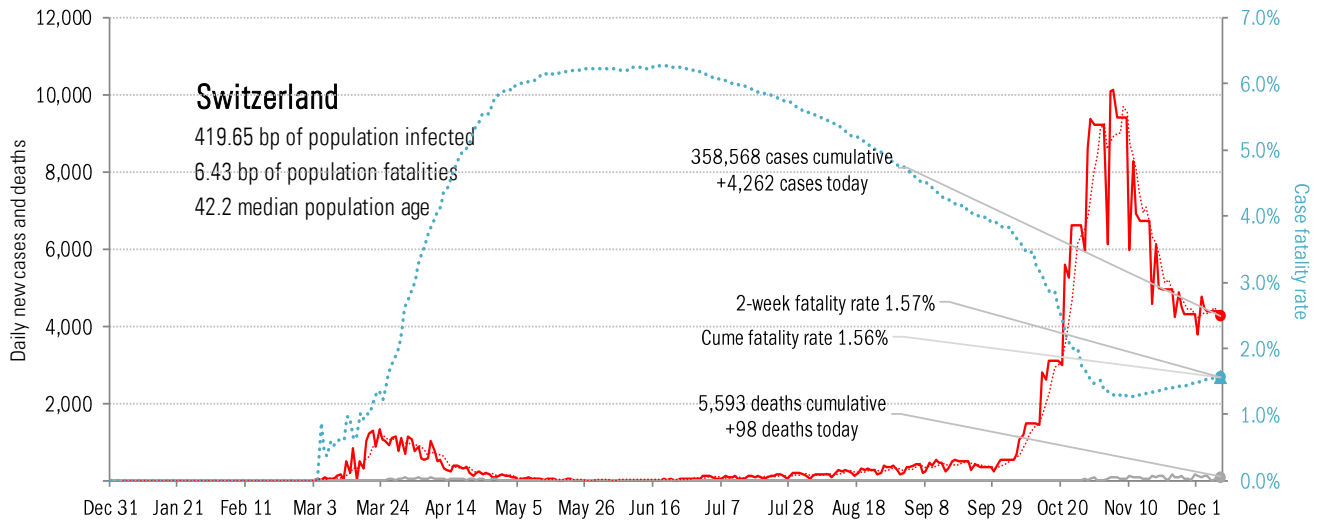
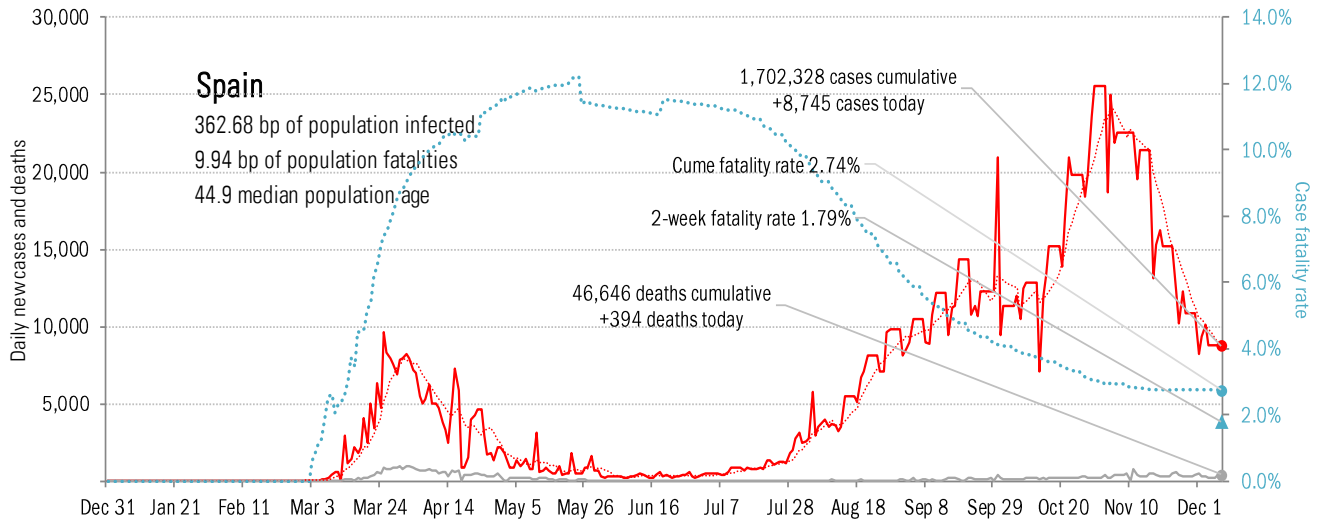
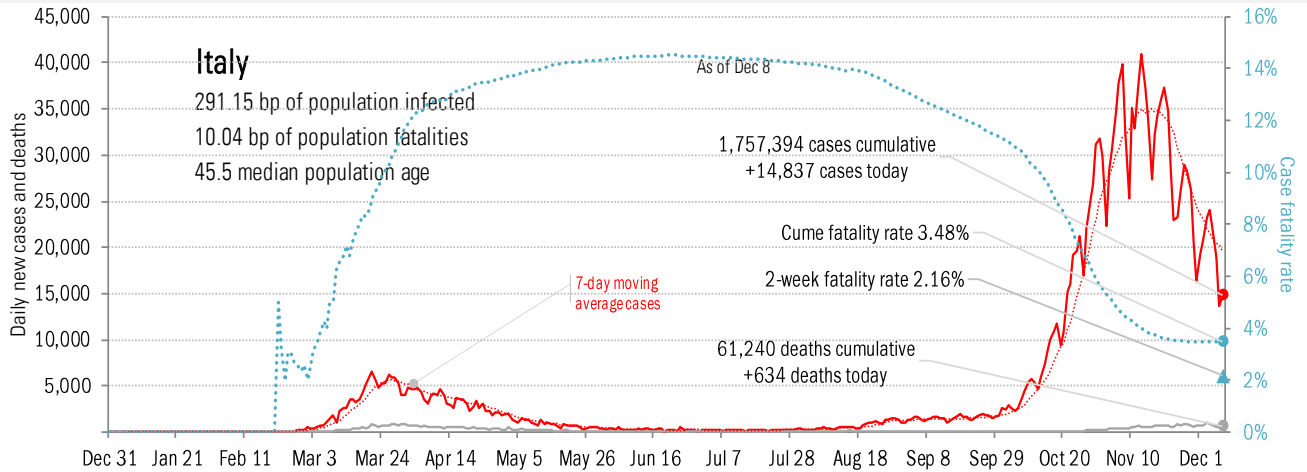
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



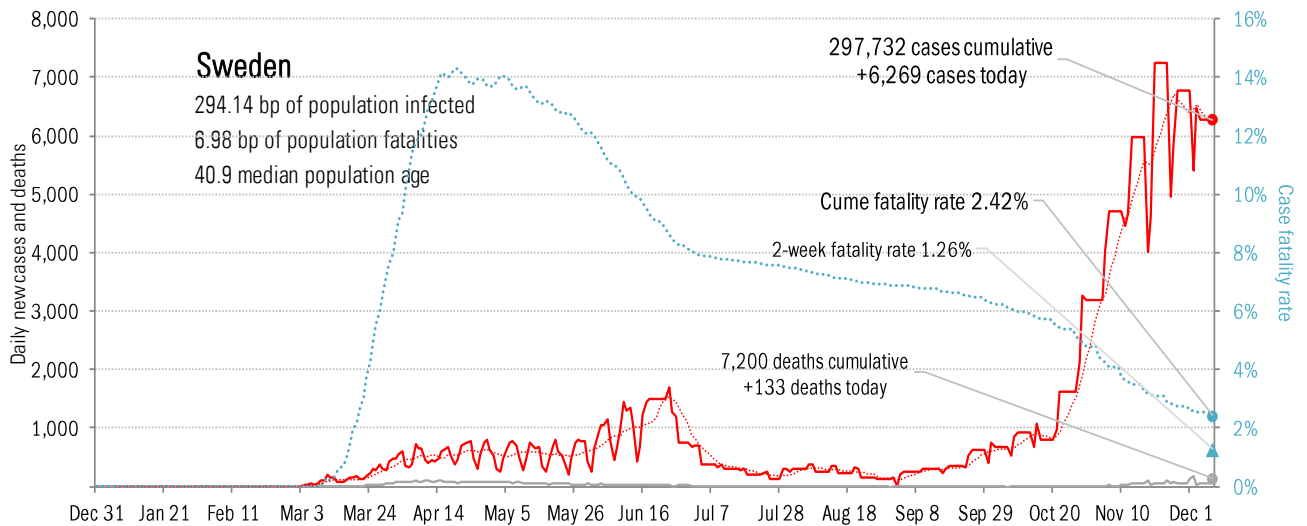
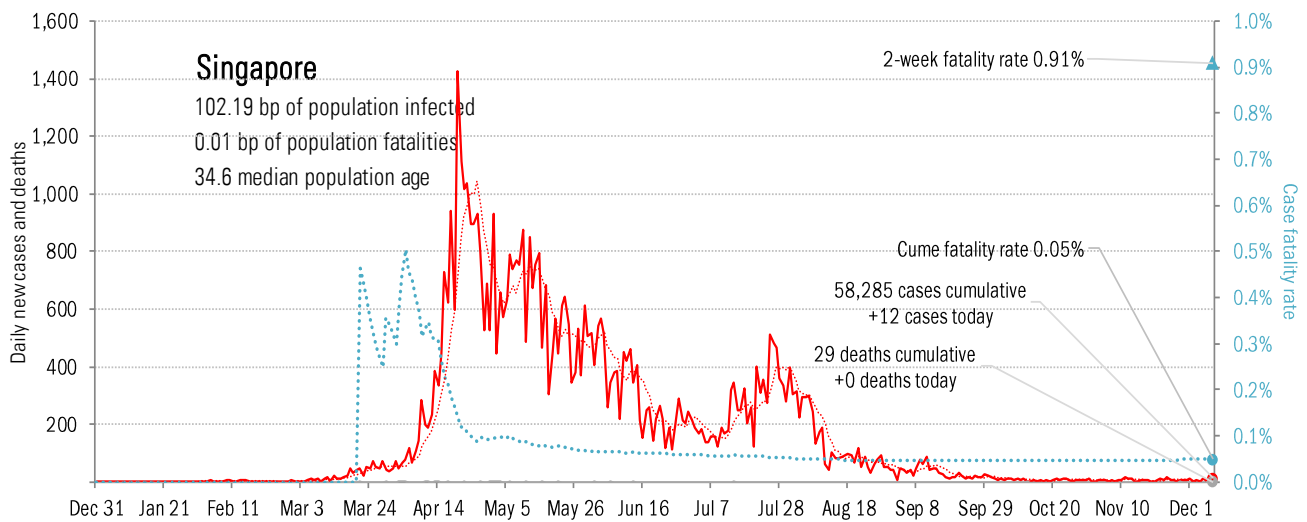
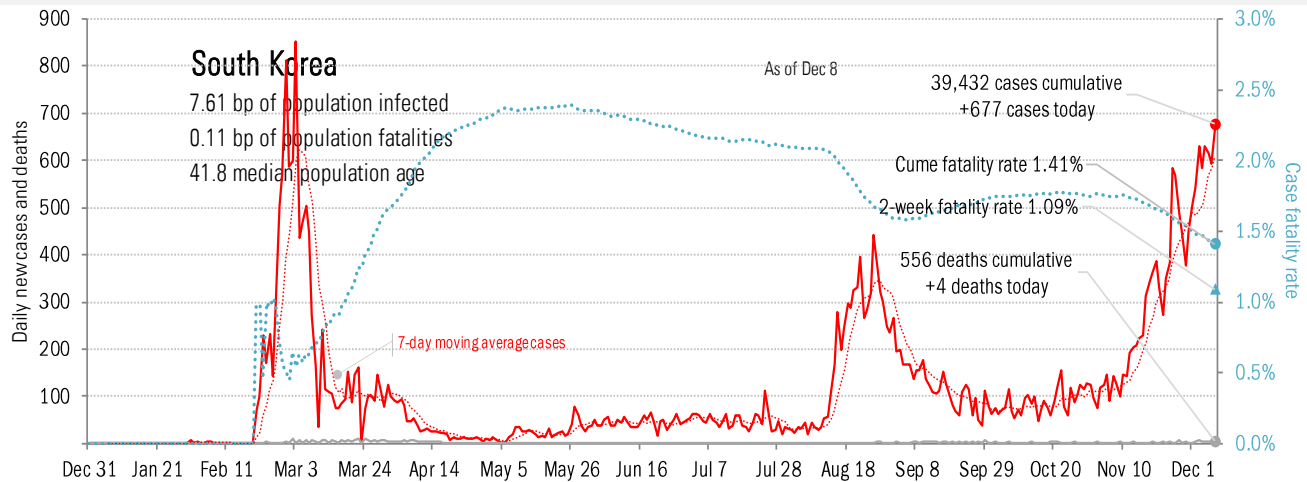
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



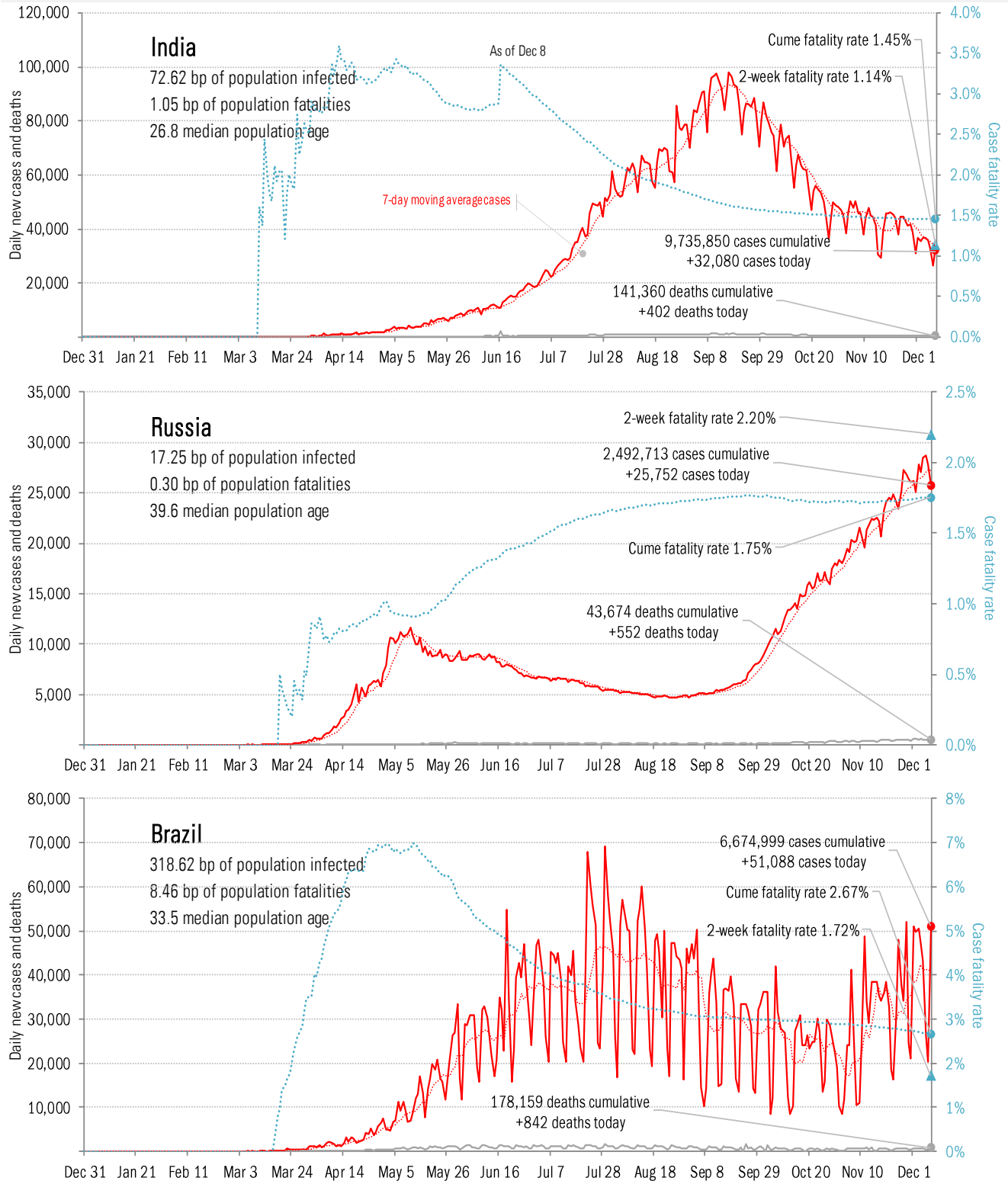
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



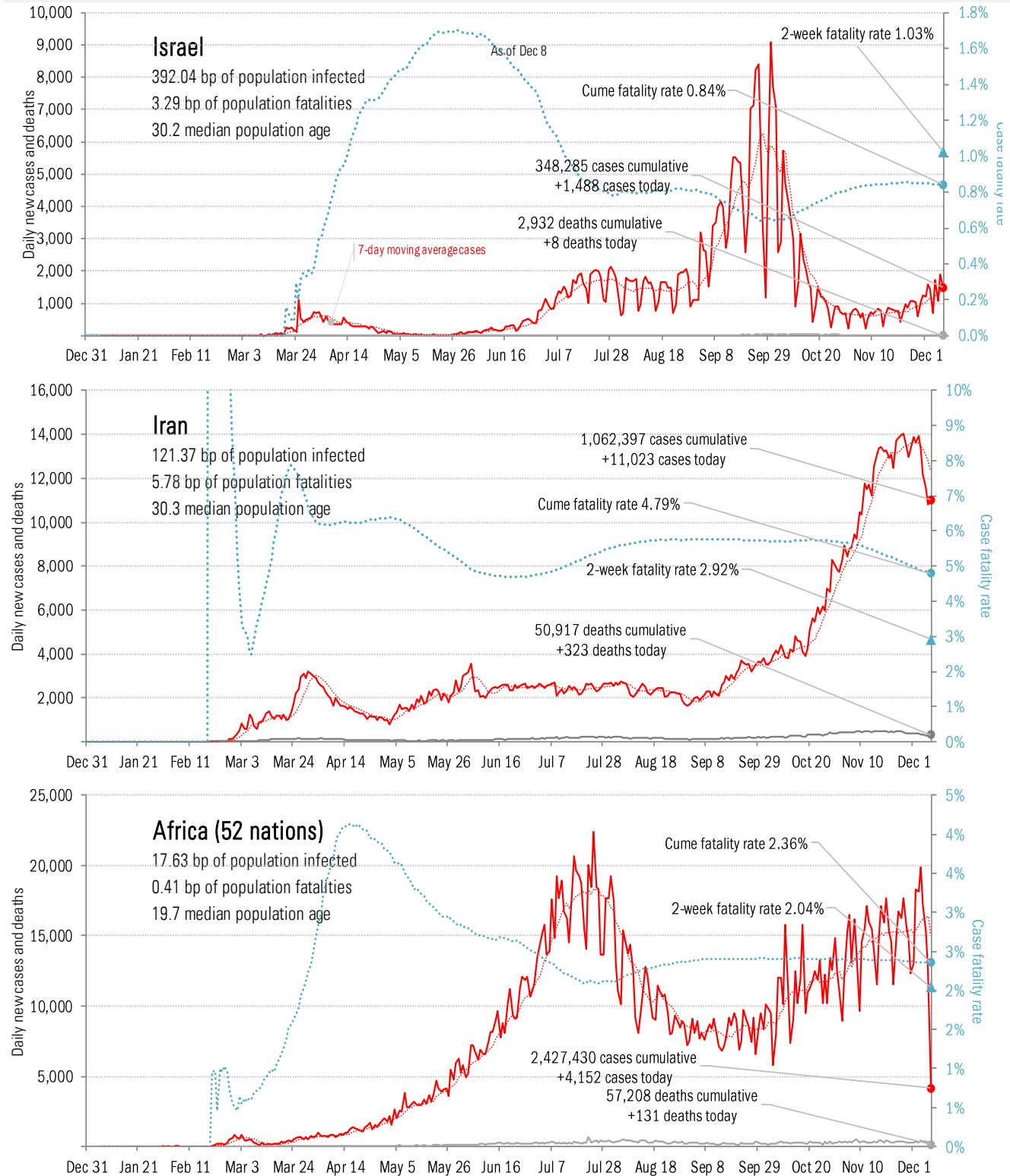
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



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

Impact in the Middle East and Africa



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