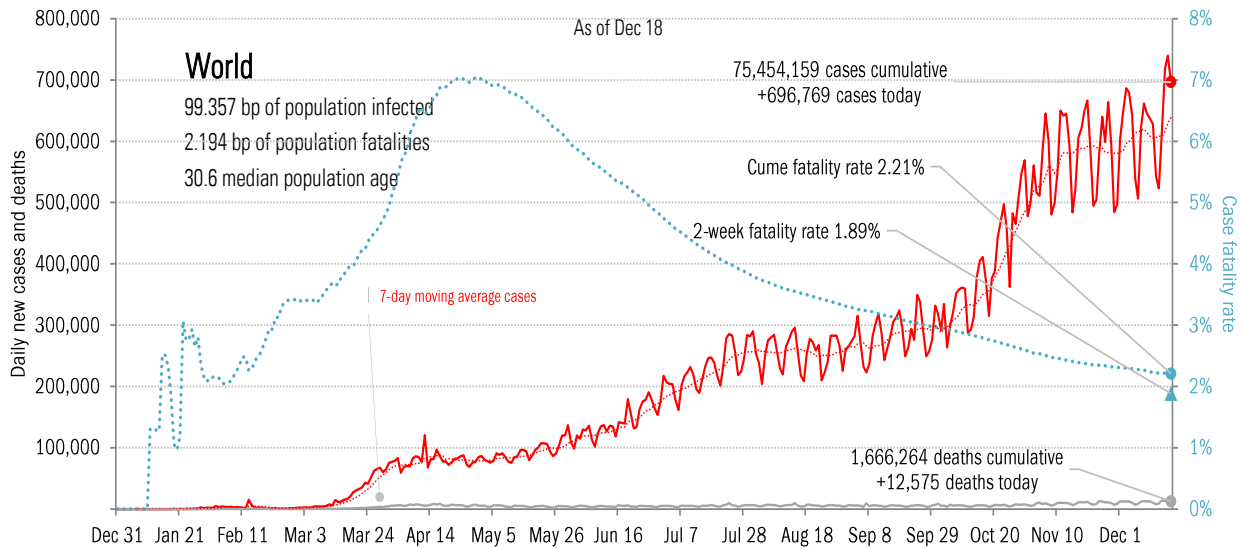
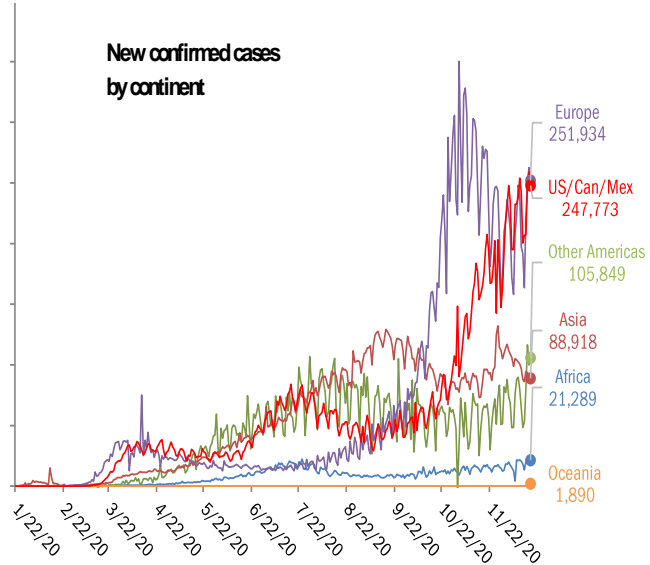


## Data Insights: Covid-2019 Monitor

Saturday, December 19, 2020

### The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+228,825	United States	+2,751
Brazil	+52,544	Brazil	+823
Germany	+32,830	Mexico	+762
United Kingdom	+28,560	Germany	+727
Russia	+28,116	Italy	+674
Turkey	+26,410	France	+612
India	+25,152	Russia	+602
France	+16,005	United Kingdom	+490
Italy	+15,401	Poland	+426
Colombia	+13,277	India	+347
<b>+467,120</b>		<b>+8,214</b>	
World	+696,769	World	+12,575
Top ten	67%	Top ten	65%



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

#### For more information contact us:

Donald Luskin: 312 273 6766 [don@trendmacro.com](mailto:don@trendmacro.com)  
 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

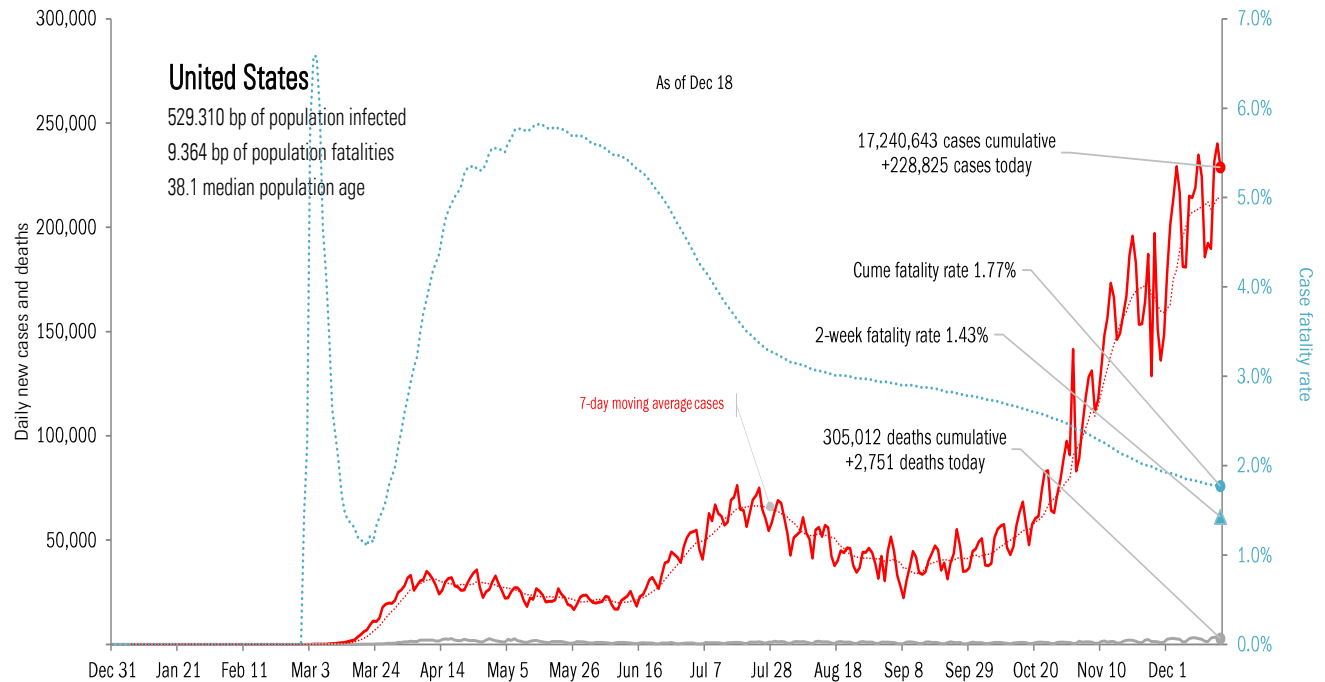
## The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
CA	+41,012	CA	+300	GA	+1,069	CA	1,764,374	NY	28,344	NY	89,995
TX	+16,792	TX	+294	CA	+539	TX	1,555,981	TX	24,954	FL	60,392
FL	+12,827	IL	+221	TX	+81	FL	1,161,953	CA	22,160	NJ	44,889
NY	+12,697	PA	+216	MO	+80	IL	886,805	FL	20,690	GA	39,064
CH	+9,684	AZ	+142	FL	+50	NY	828,166	NJ	18,124	CH	34,143
PA	+9,320	NY	+122	AZ	+47	CH	605,862	IL	16,206	AZ	32,293
NC	+8,444	FL	+96	NM	+37	PA	538,655	PA	13,608	IN	32,042
AZ	+7,635	KS	+88	OK	+34	GA	500,265	MI	11,868	AL	30,224
IL	+7,377	IN	+85	MS	+25	TN	493,230	MA	11,610	MD	24,310
GA	+6,092	WA	+75	AL	+22	MI	491,875	GA	10,332	MIN	20,323
<b>+131,880</b>		<b>+1,639</b>		<b>+1,984</b>		<b>8,827,166</b>		<b>177,896</b>		<b>407,675</b>	
All states	+228,825	All states	+2,751	All states	+556	All states	17,240,643	All states	305,012	All states	638,058
Top ten	58%	Top ten	60%	Top ten	357%	Top ten	51%	Top ten	58%	Top ten	64%

*Some states not reporting*

## Five most improved US states

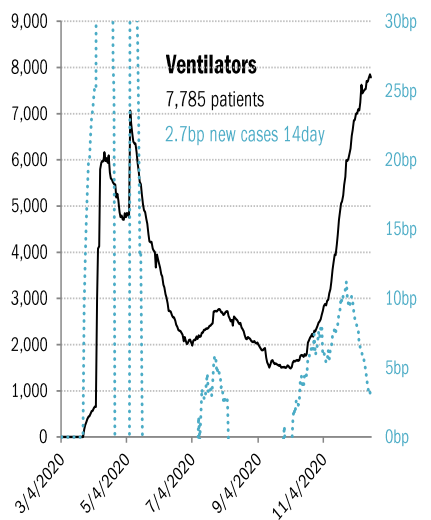
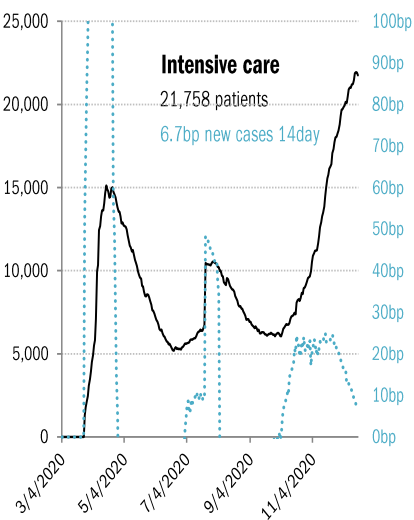
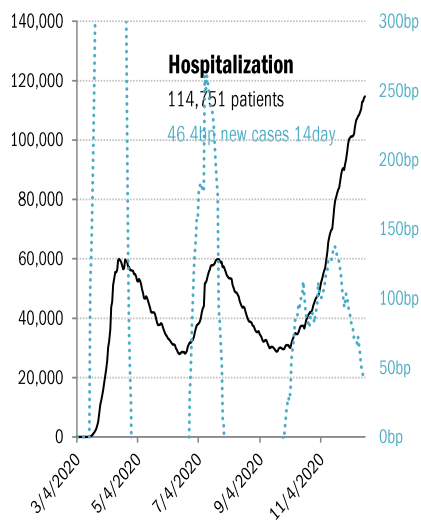
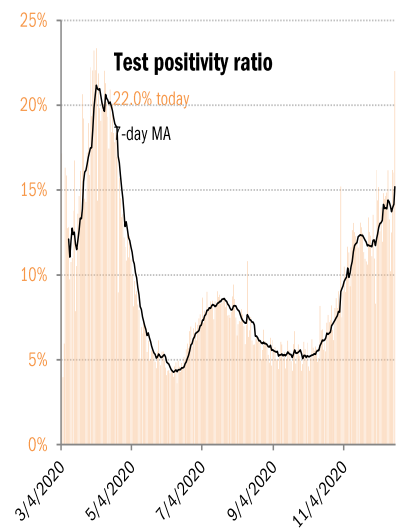
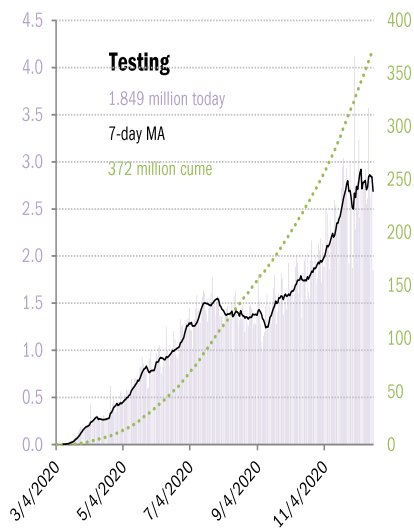
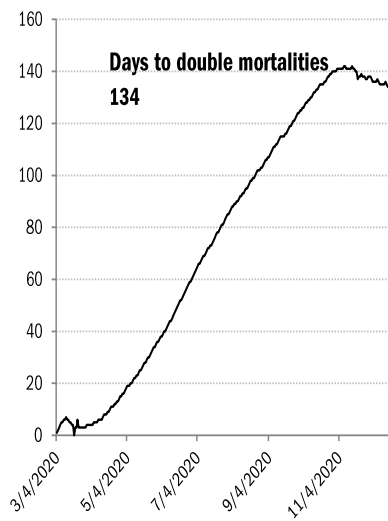
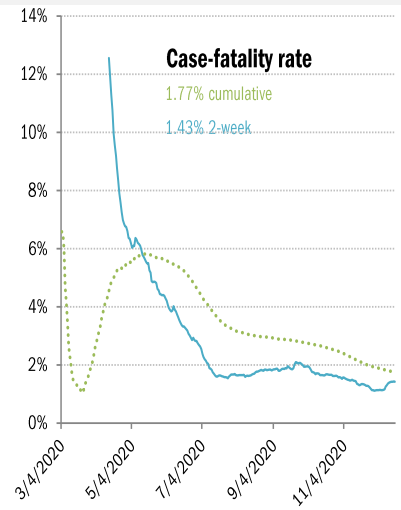
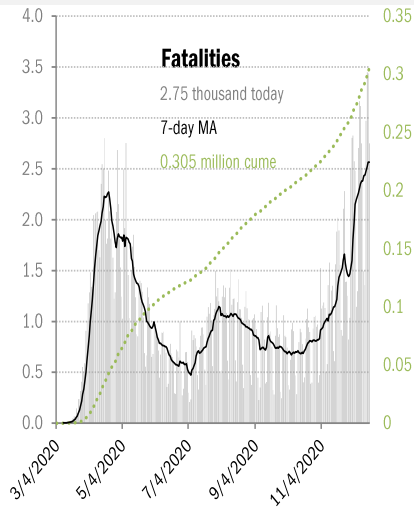
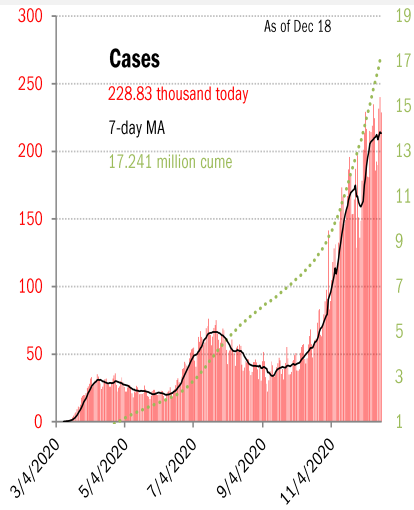
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CA	-11,269	TN	-177	SC	-542	TX	+28,924
TN	-8,945	MI	-146	NV	-449	PA	+5,592
TX	-3,057	IA	-97	KS	-170	IN	+4,968
CH	-1,728	CA	-79	KY	-129	WI	+4,661
IL	-1,451	CH	-44	IL	-125	CH	+4,096



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

# US deep-dive

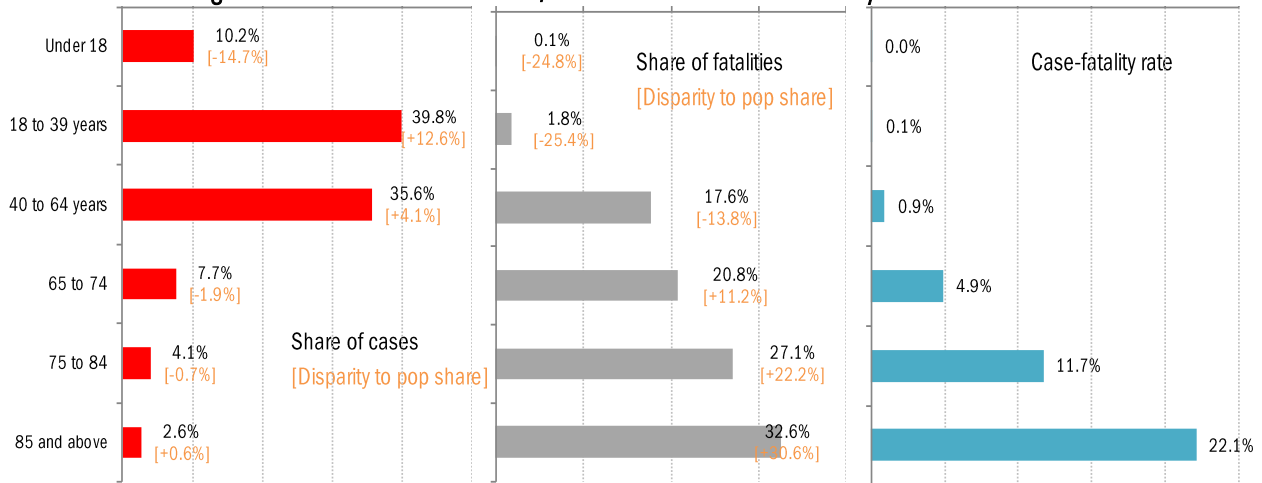
National and state-by-state data do not line up because of different sources



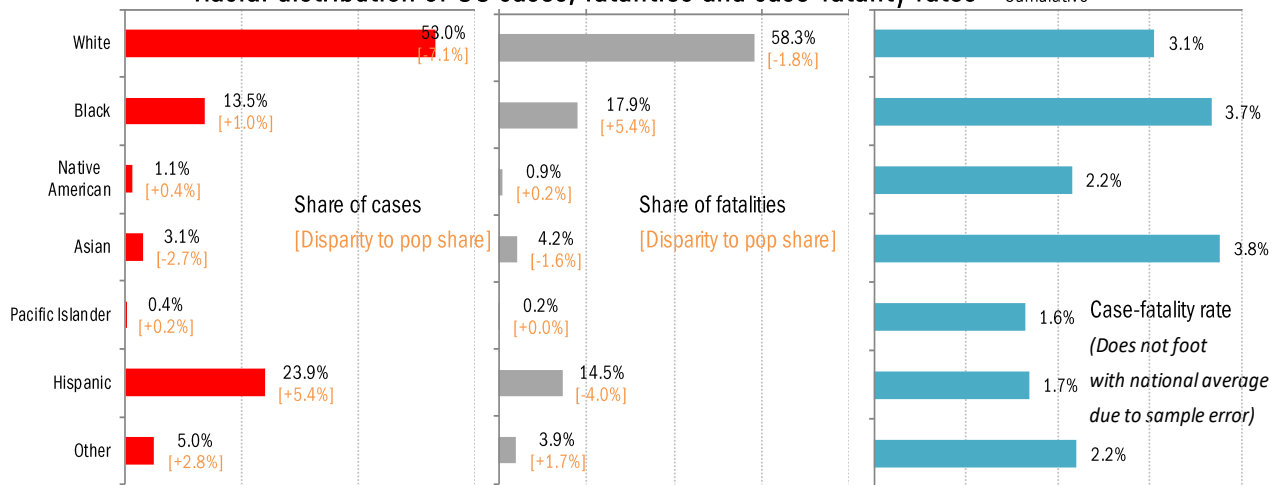
Source: [Covid Tracking Project](#), TrendMacro calculations

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

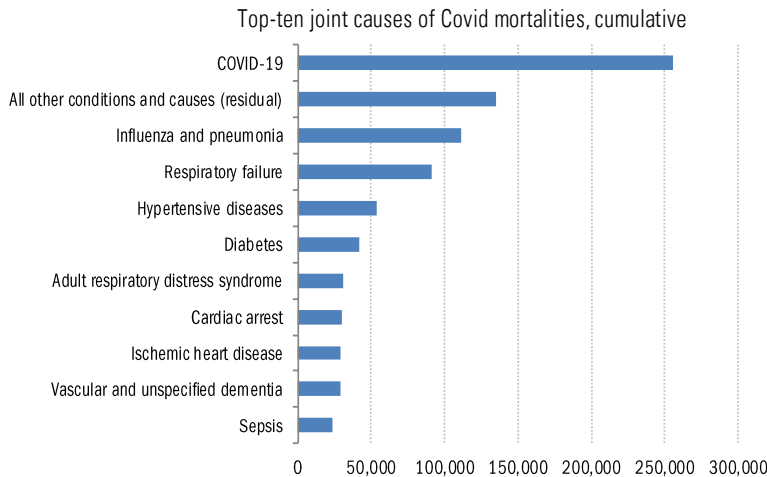
## Age distribution of US cases, fatalities and case-fatality rates



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



## Comorbidities



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 2.9 additional conditions or causes per death.

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

## Recommended reading

[FDA Takes Additional Action in Fight Against COVID-19 By Issuing Emergency Use Authorization for Second COVID-19 Vaccine](#)

*Food and Drug Administration*  
December 18, 2020

[Student with mom who's high risk for COVID takes exams in hazmat suit](#)

Sarah Polus  
*The Hill*  
December 18, 2020

['Following the science' is more complicated than we like to admit](#)

Jemima Kelly  
*Financial Times*  
December 18, 2020

[The Immaculate Deception: Six Key Dimensions of Election Irregularities](#)

Peter Navarro  
December 15, 2020

[Peter Navarro 'The Immaculate Deception' Report News Conference Transcript](#)

Peter Navarro  
*Rev*  
December 17, 2020

[Fears Prompt Some Medical Workers to Balk at Getting the Vaccine](#)

Shruti Singh, Henry Goldman, and Angelica LaVito  
*Bloomberg*  
December 17, 2020

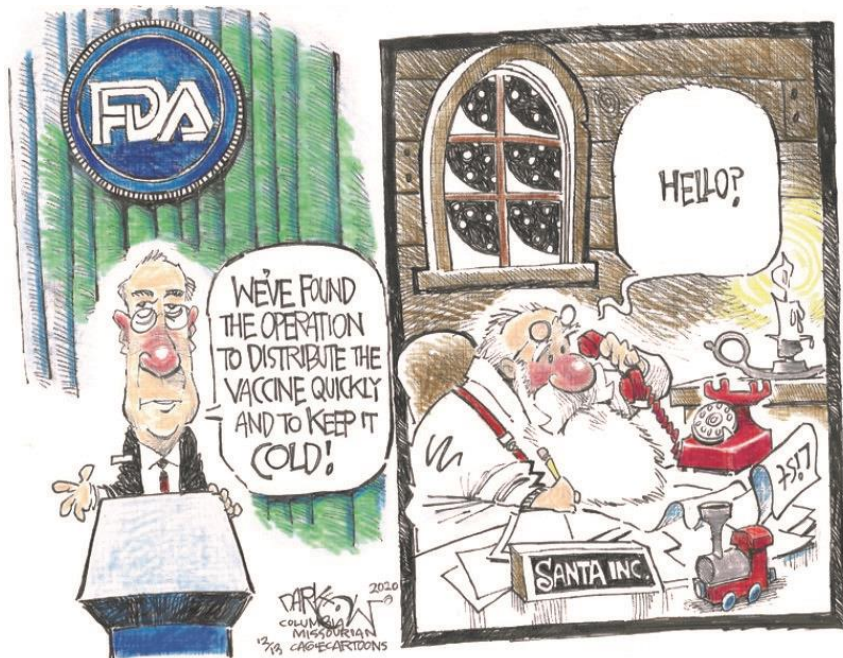
[COVID-19 vaccine trials report cases of brief facial paralysis. That's not as scary as it sounds.](#)

Adrianna Rodriguez  
*USA Today*  
December 15, 2020

['We want them infected': Trump appointee demanded 'herd immunity' strategy, emails reveal](#)

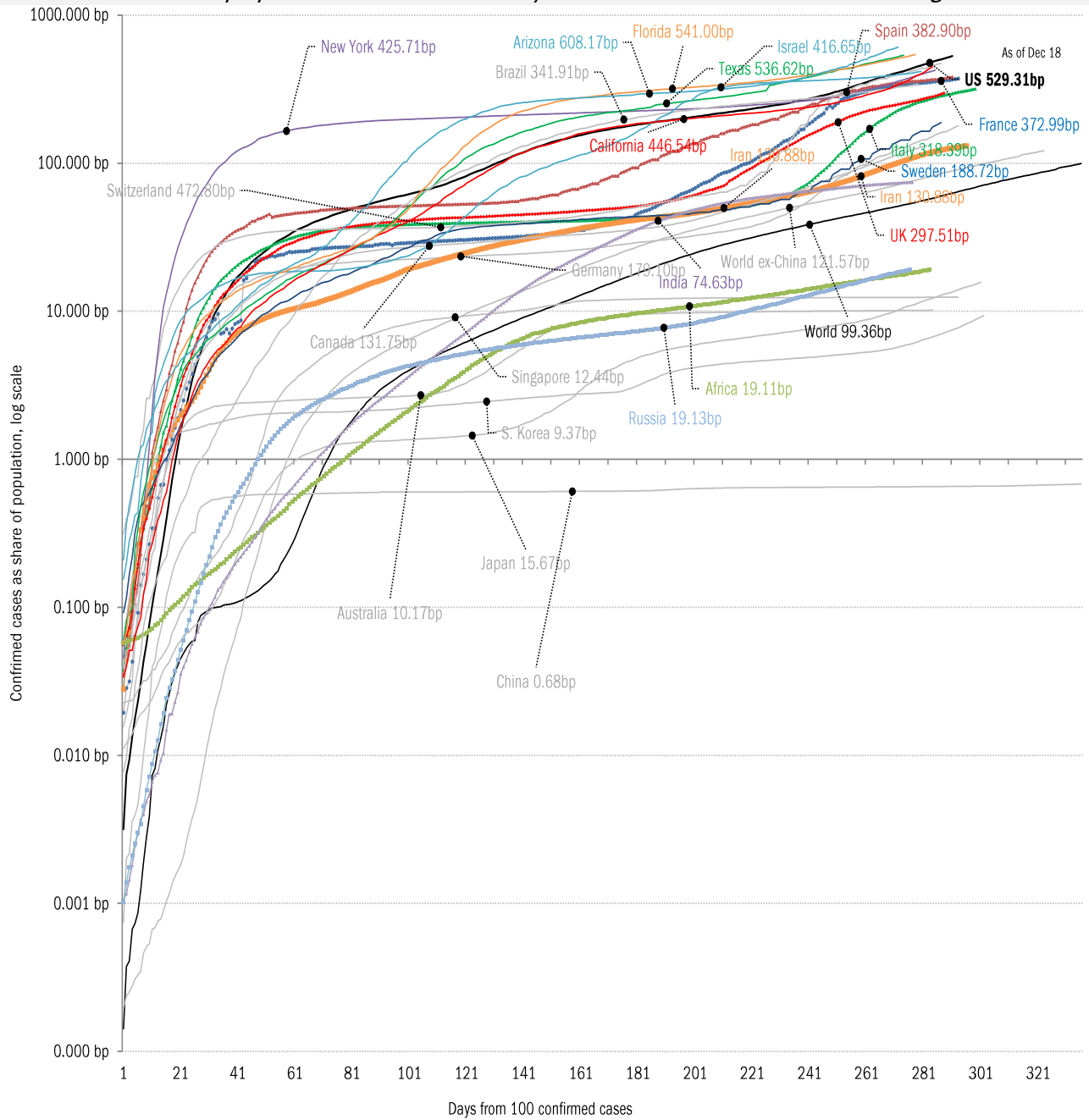
Dan Diamond  
*Politico*  
December 16, 2020

## Meme of day



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

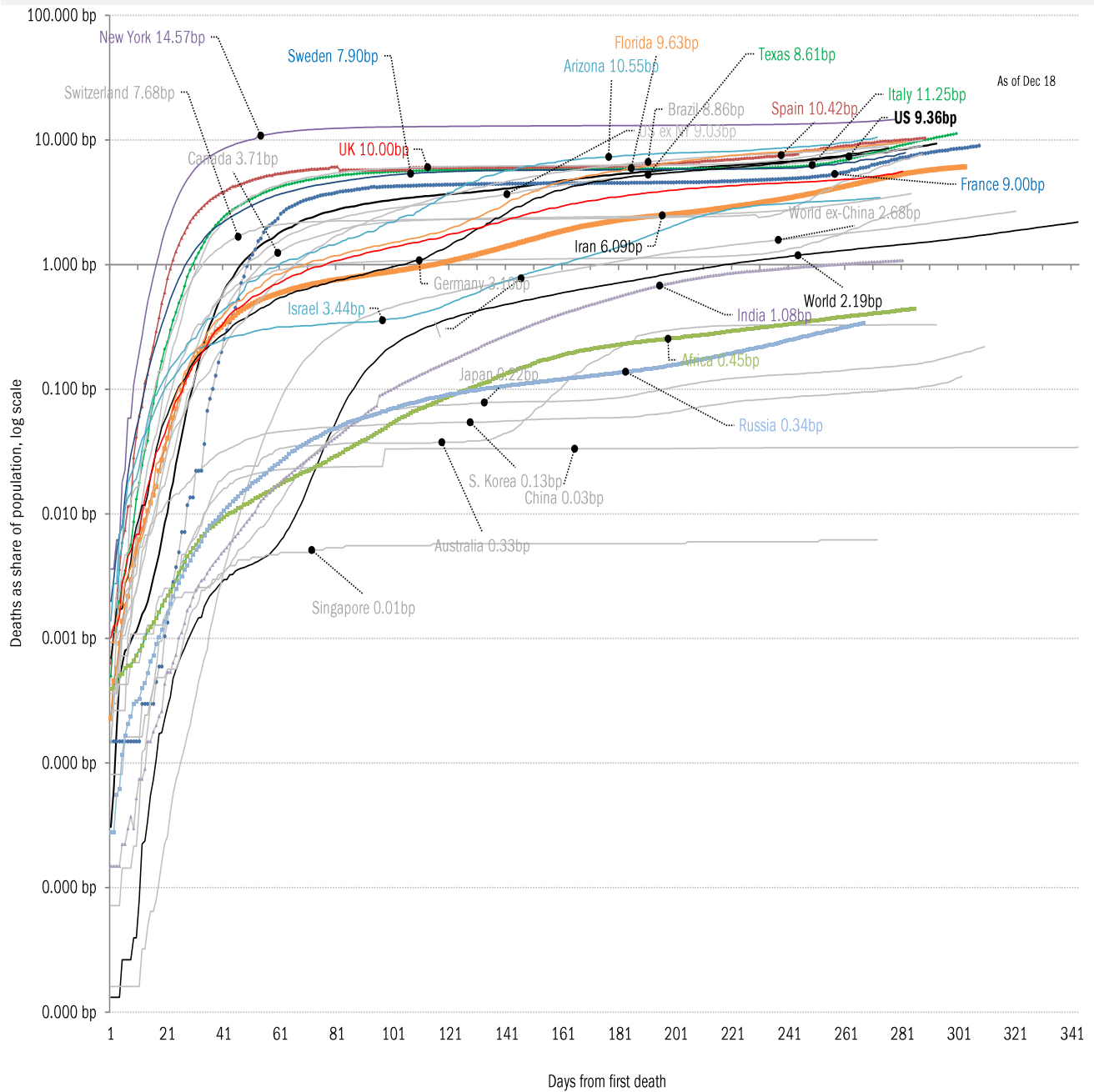
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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

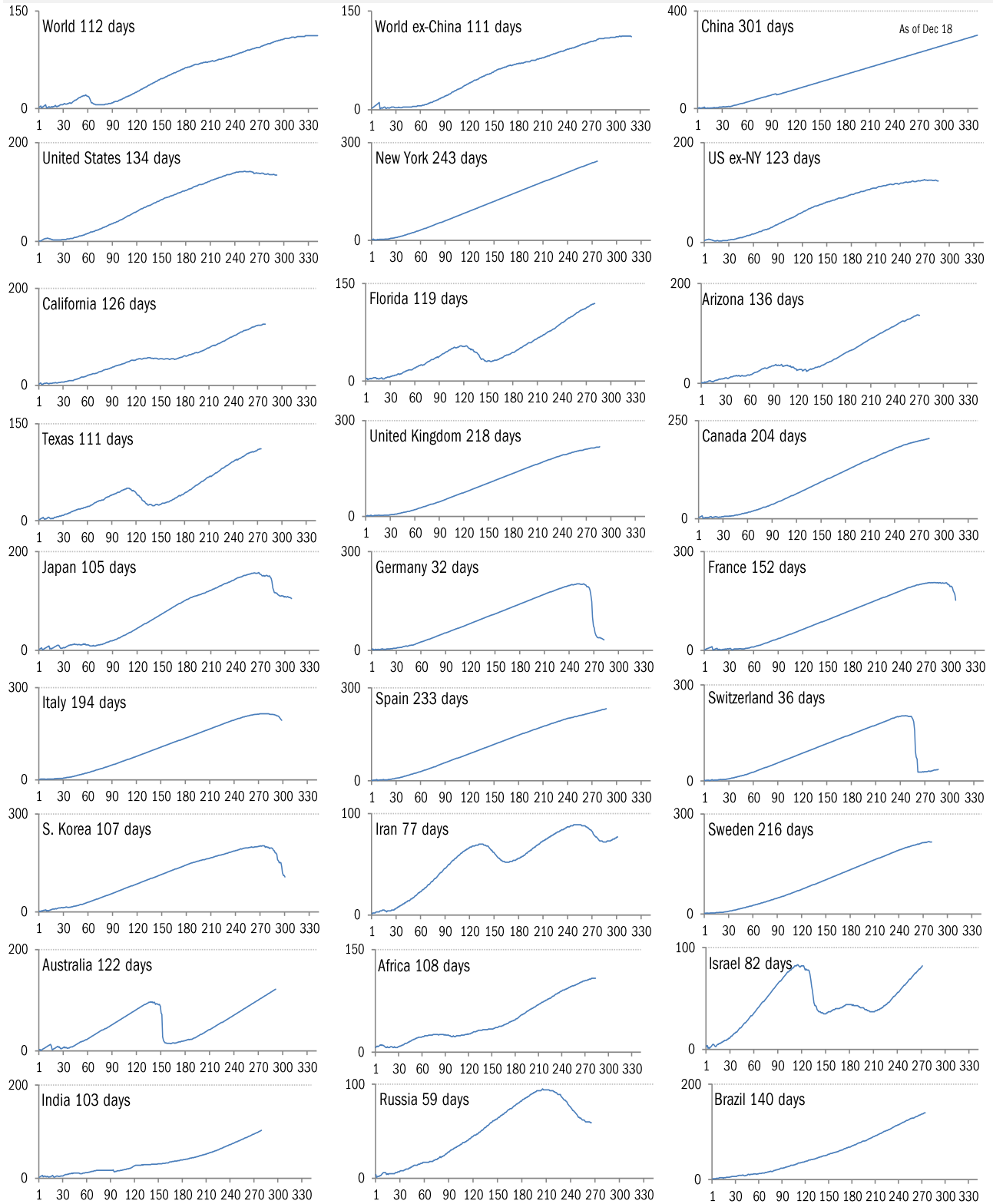


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

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

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

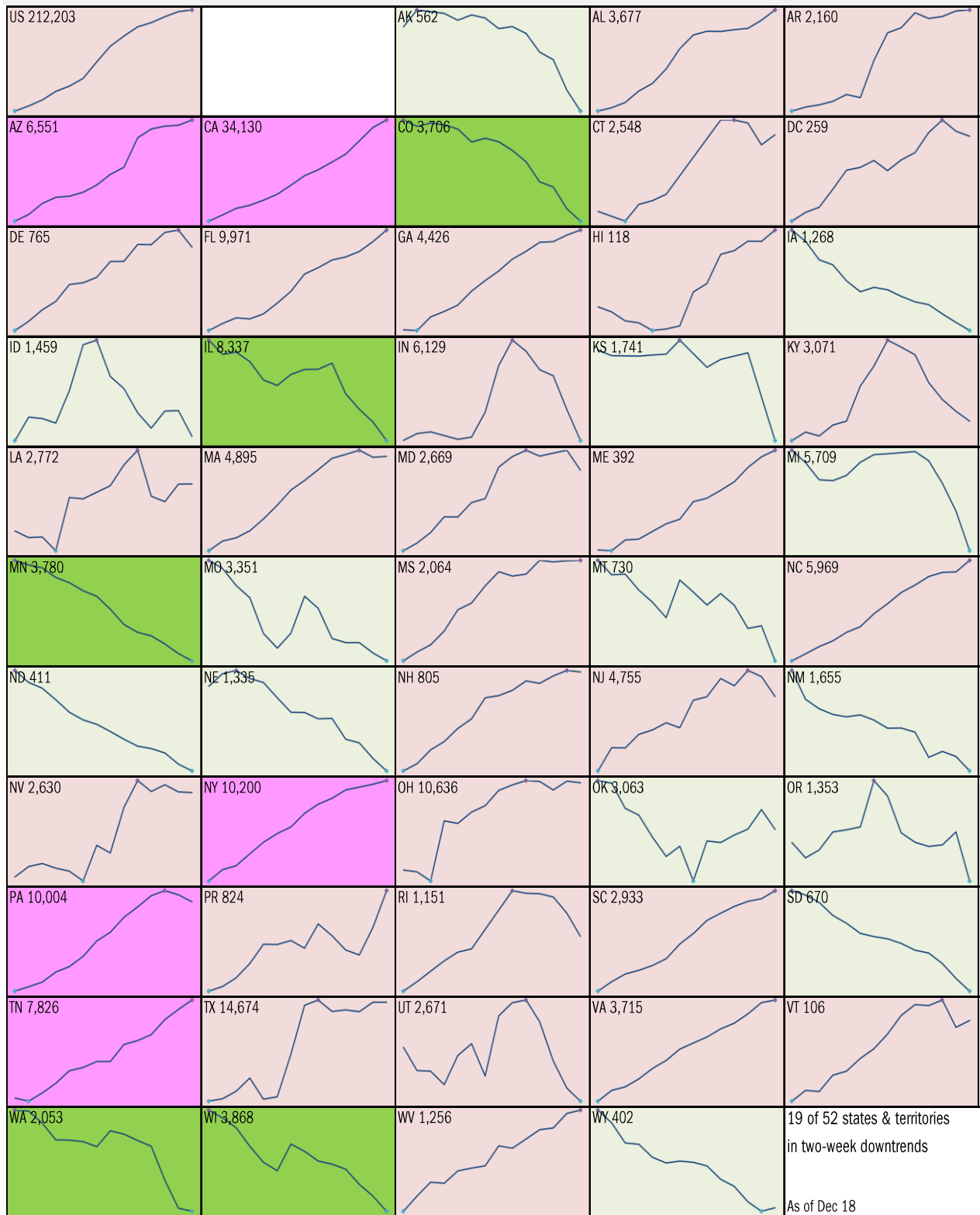
Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread



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



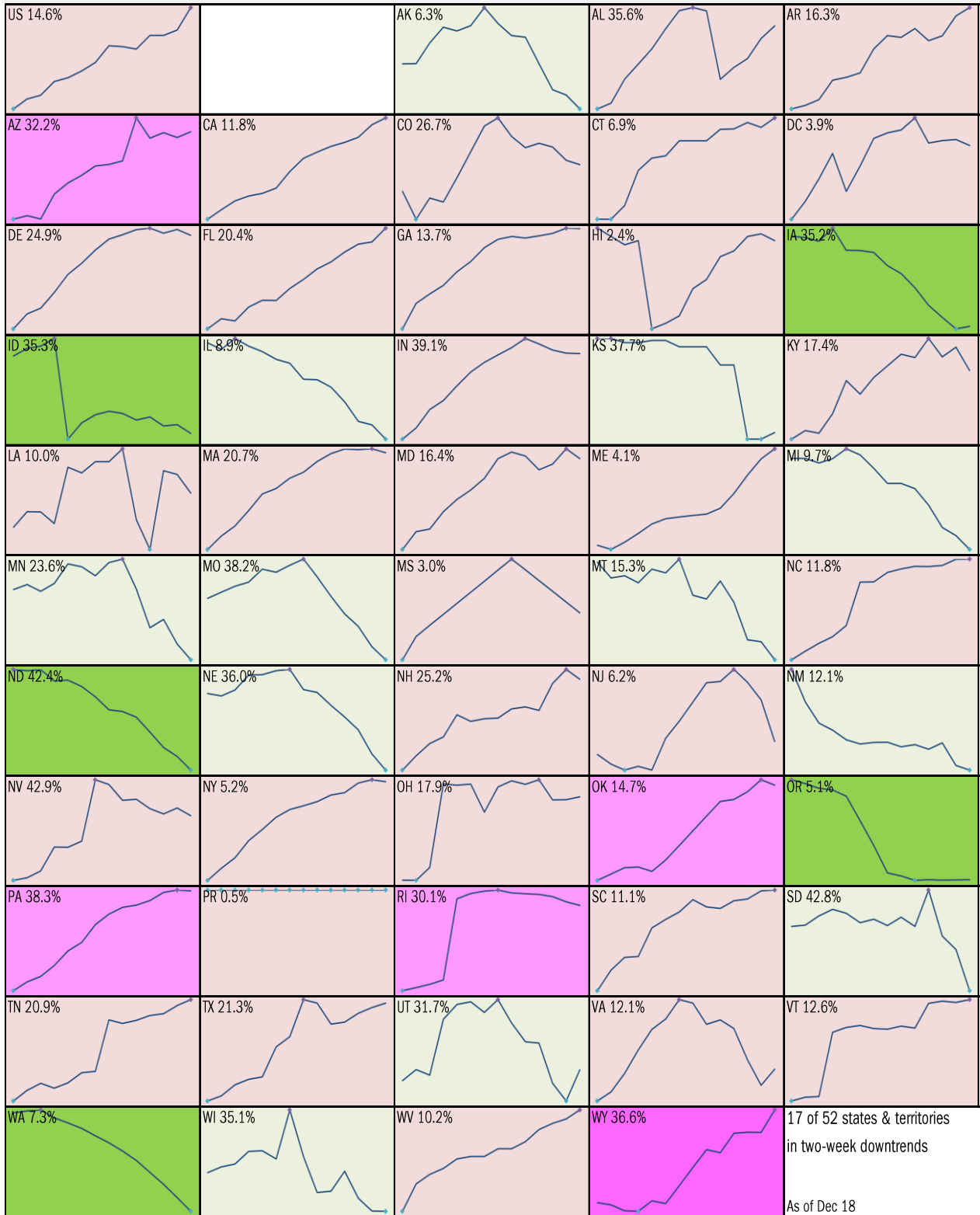
Requirement to [Open Up America Again](#): 14-day "downward trajectory" in new cases  
 14-day moving average, last 14 days *Most recent value displayed* ● High ● Low  
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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



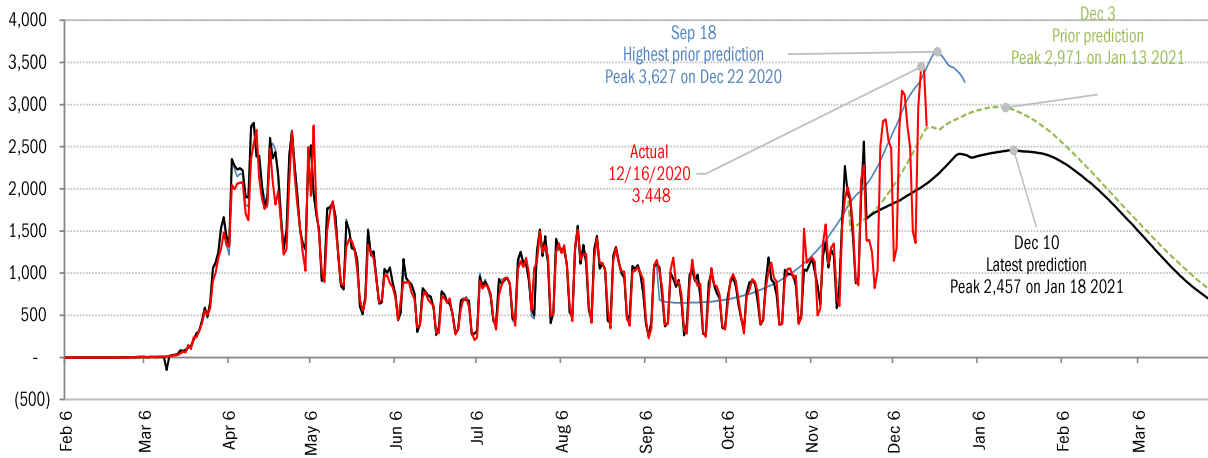
Source: [Covid Tracking Project](#), TrendMacro calculations

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

## New daily fatalities

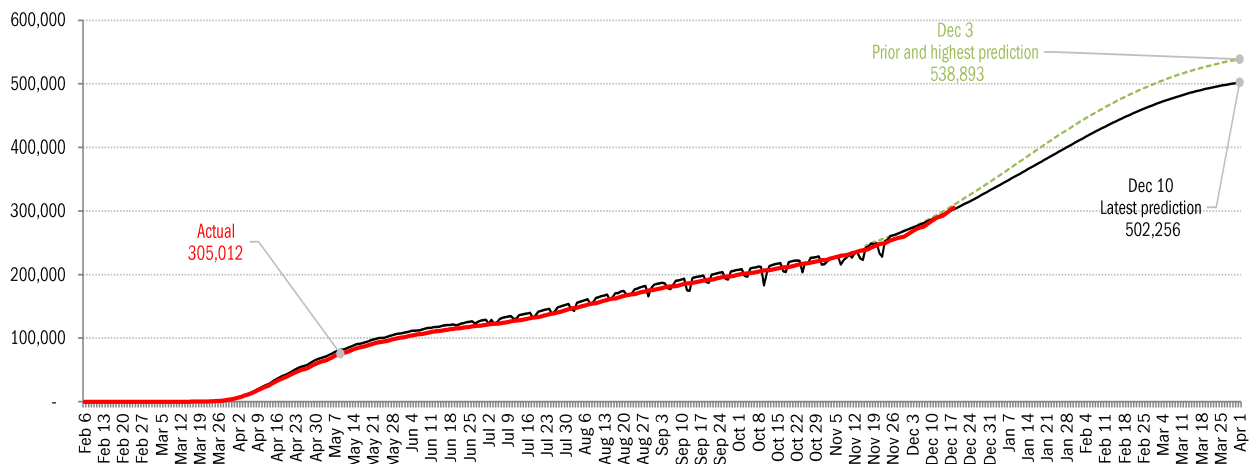
As of Dec 18

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

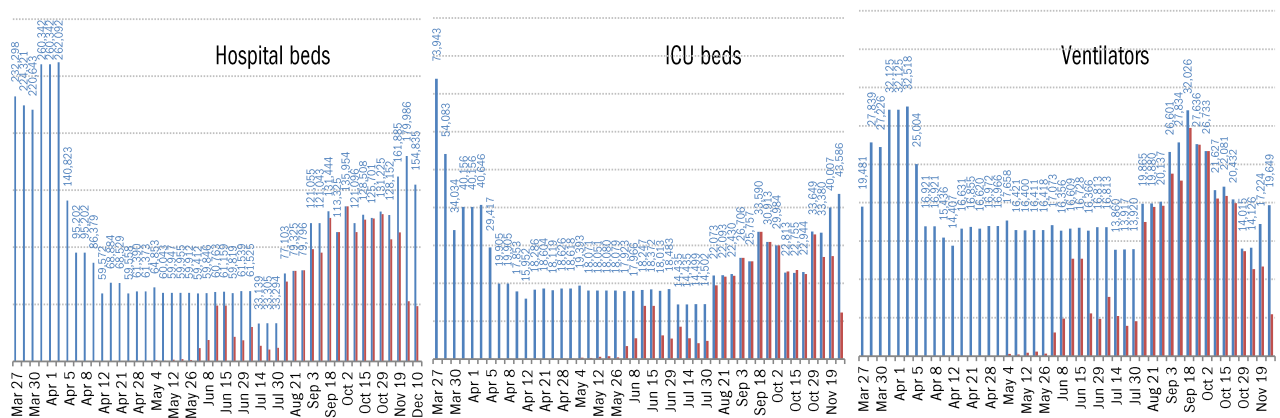


## Cumulative fatalities

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

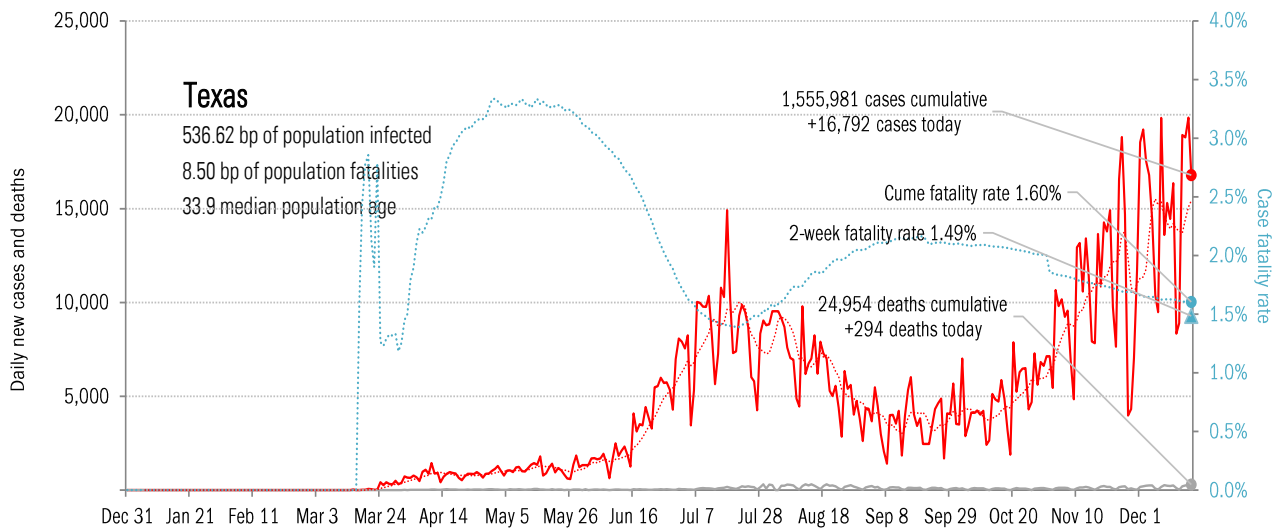
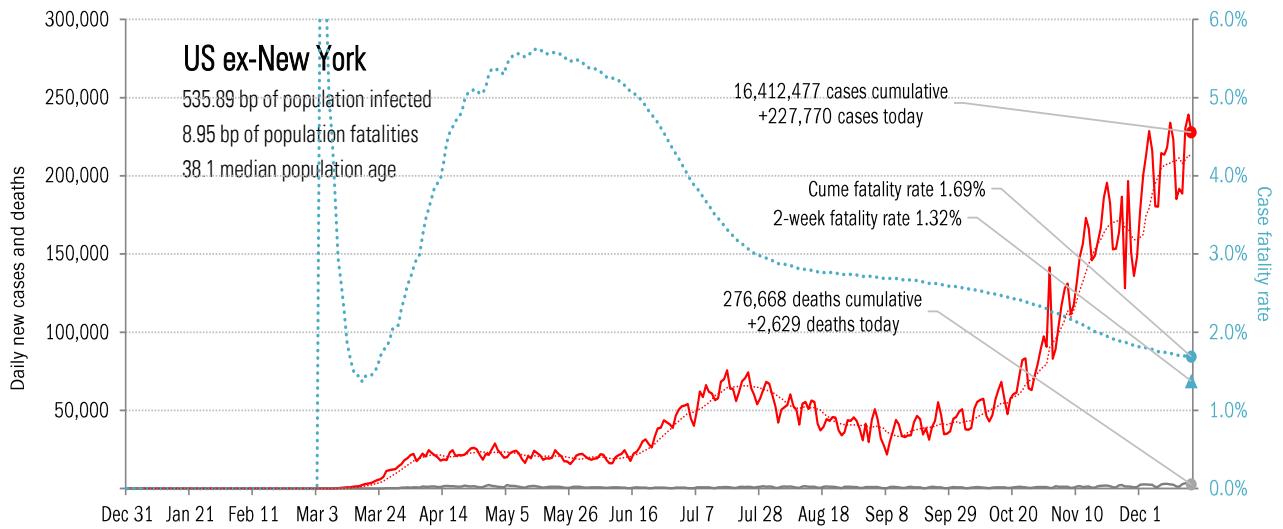
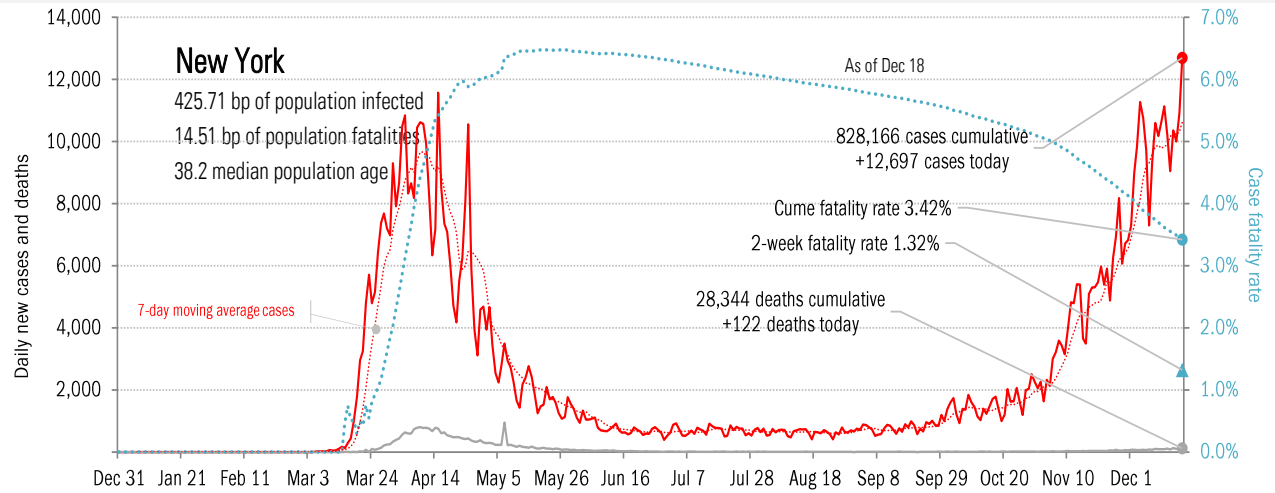


## Healthcare system stress, peak and ultimate estimated at each model revision



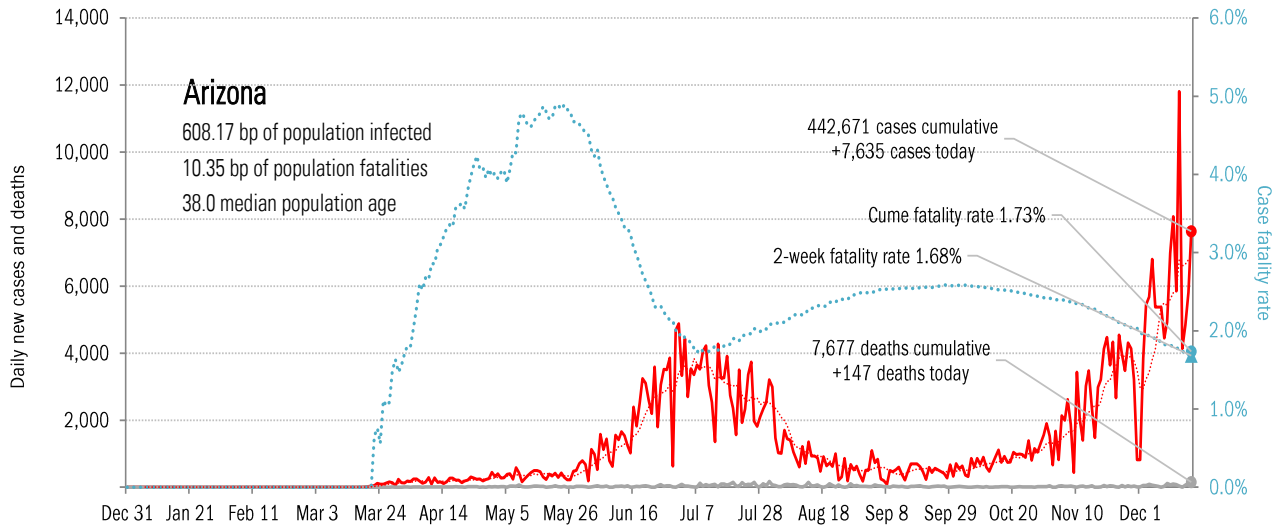
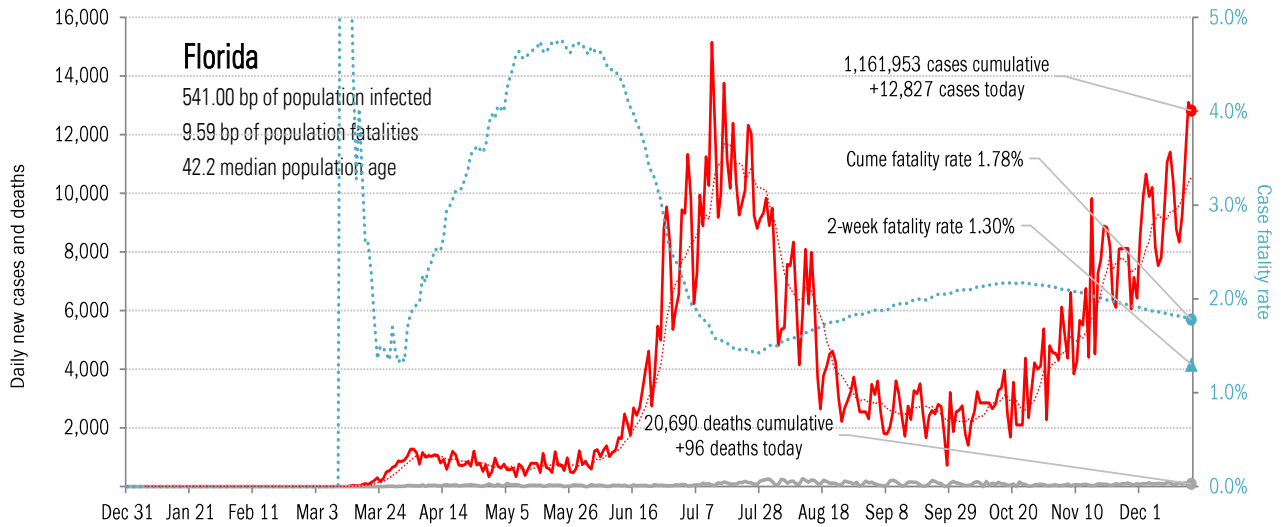
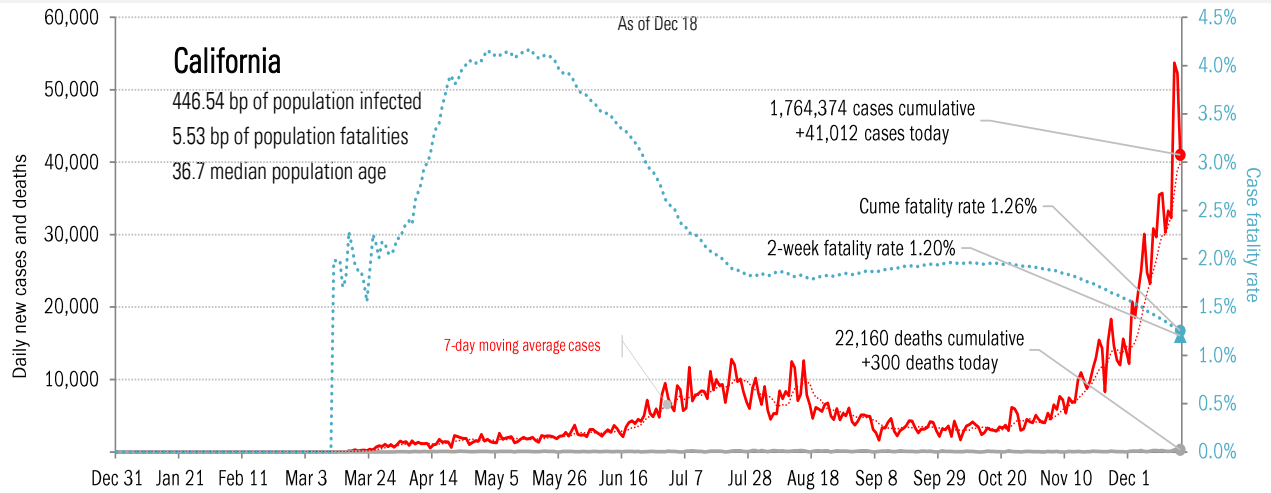
Source: [IHME](#), [Covid Tracking Project](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



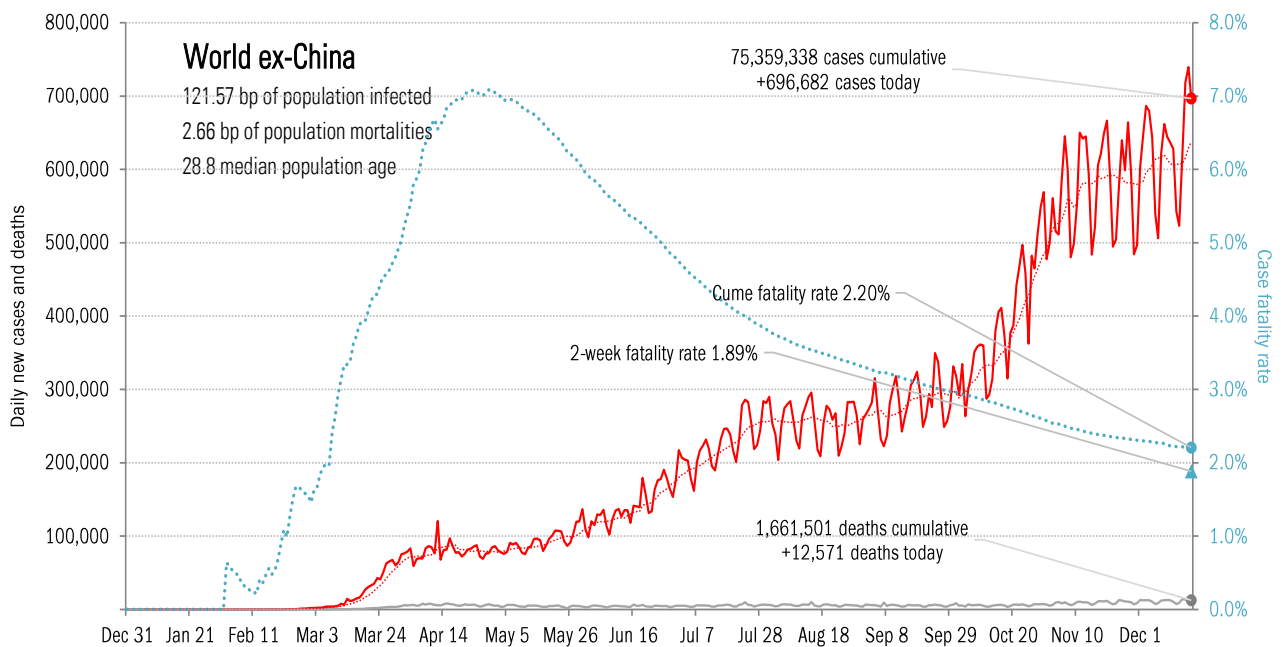
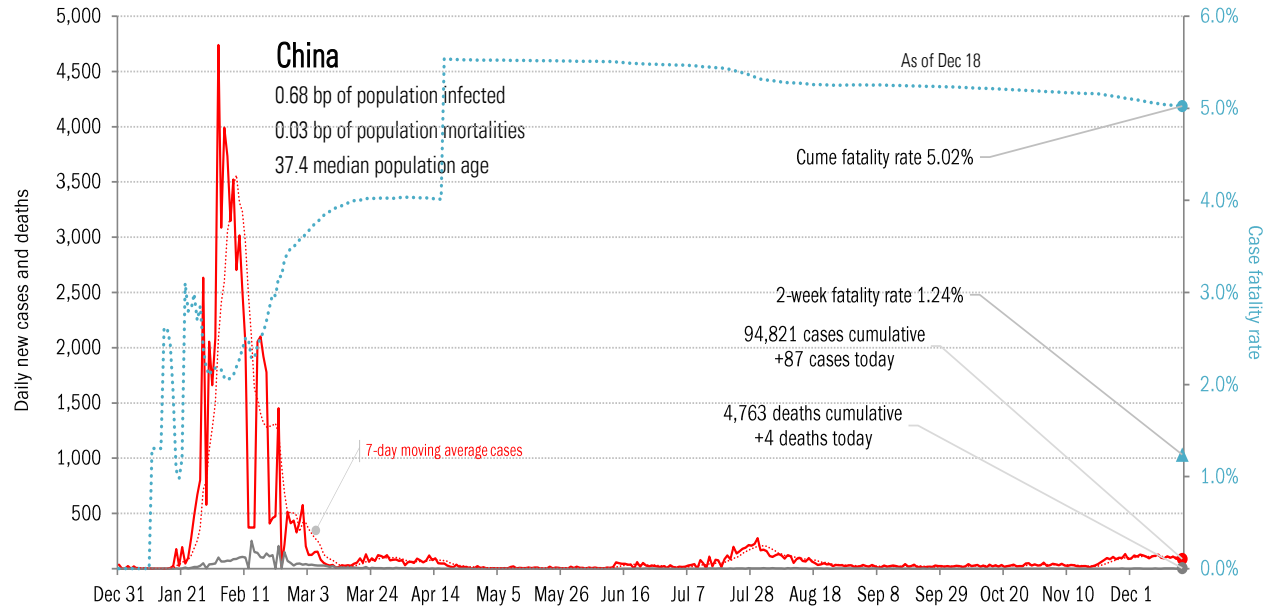
Source: [Covid Tracking Project](#), TrendMacro calculations

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



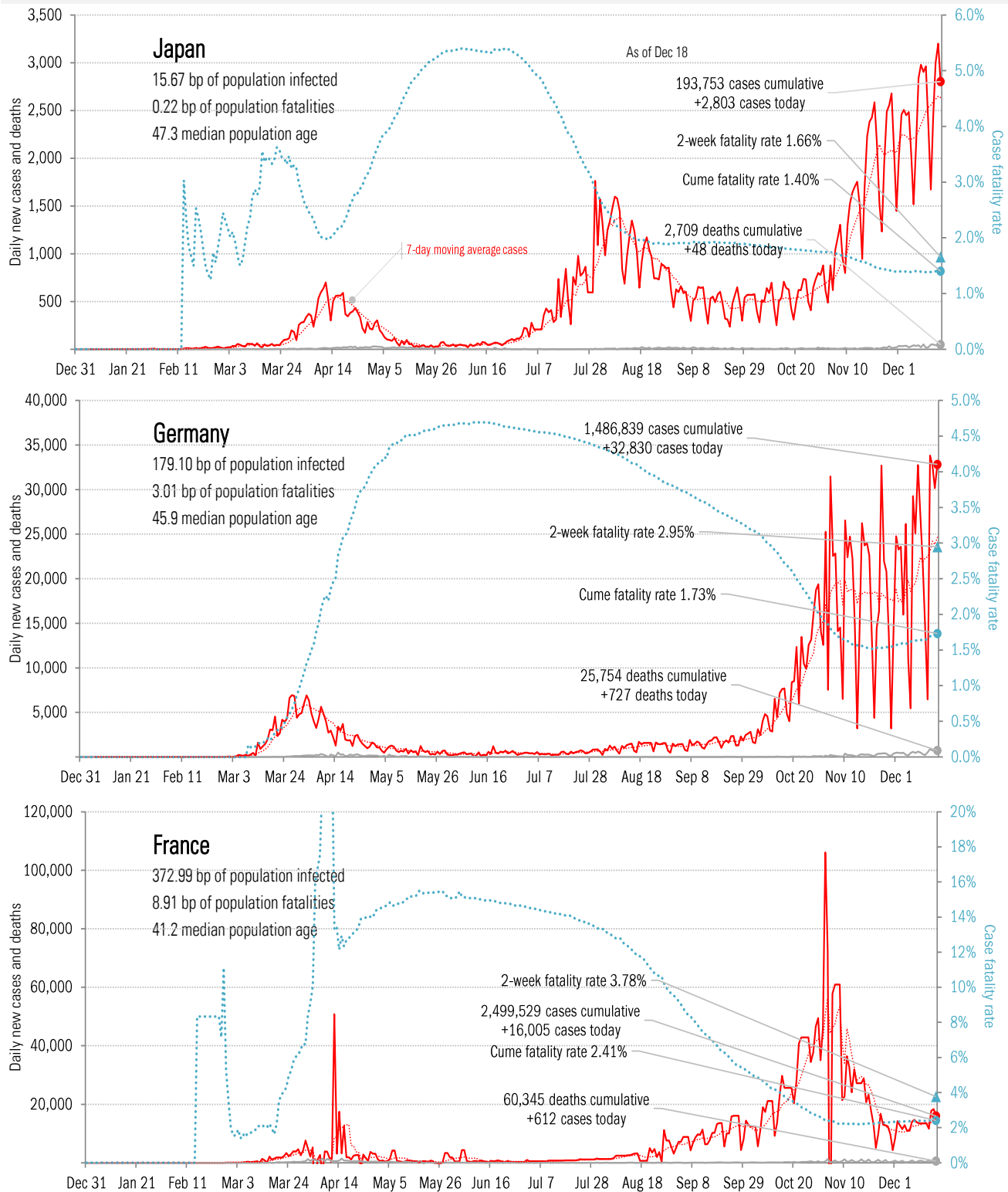
Source: [Covid Tracking Project](#), TrendMacro calculations

# Patient zero... and then everyone else



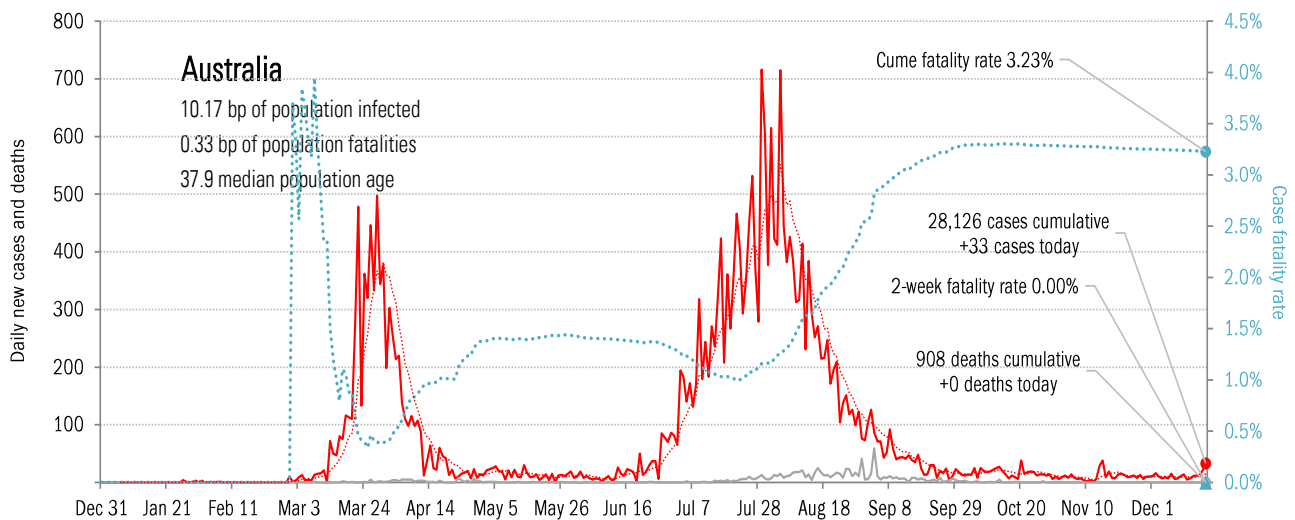
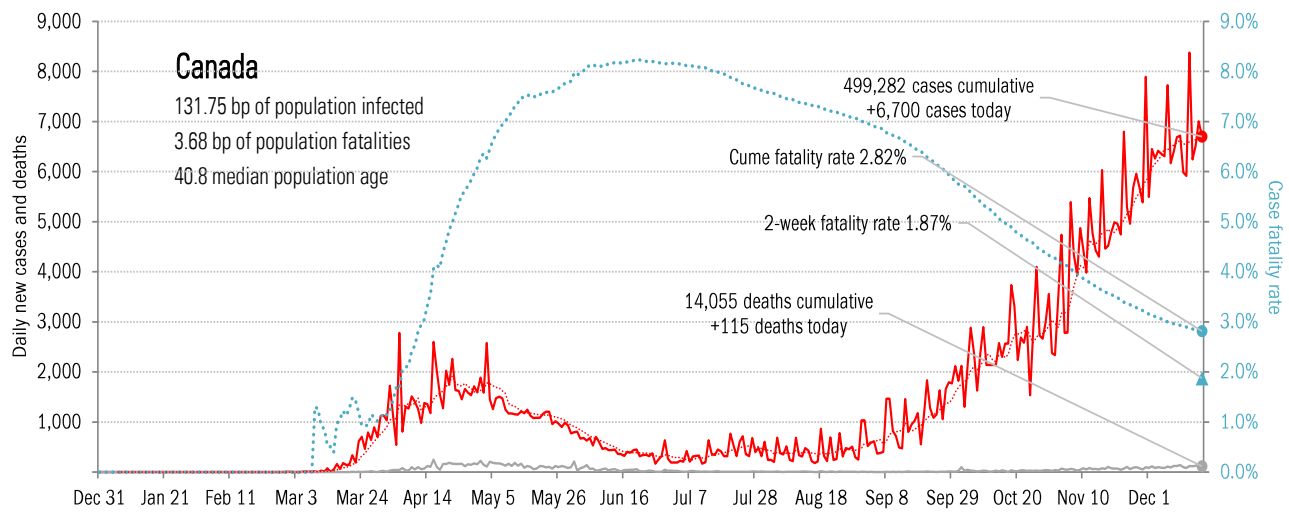
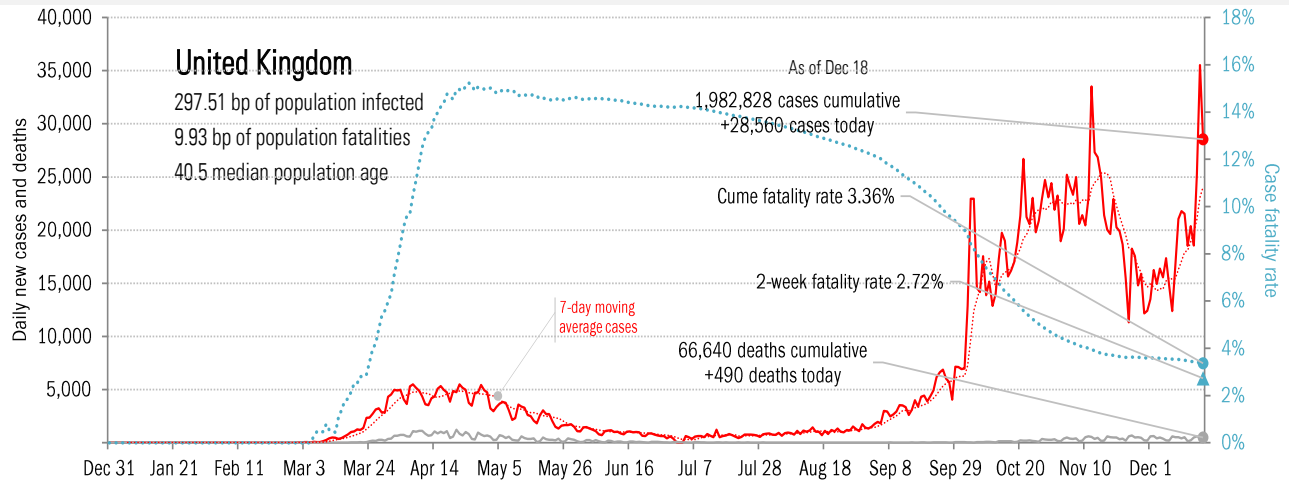
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

# Impact in the largest economies



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

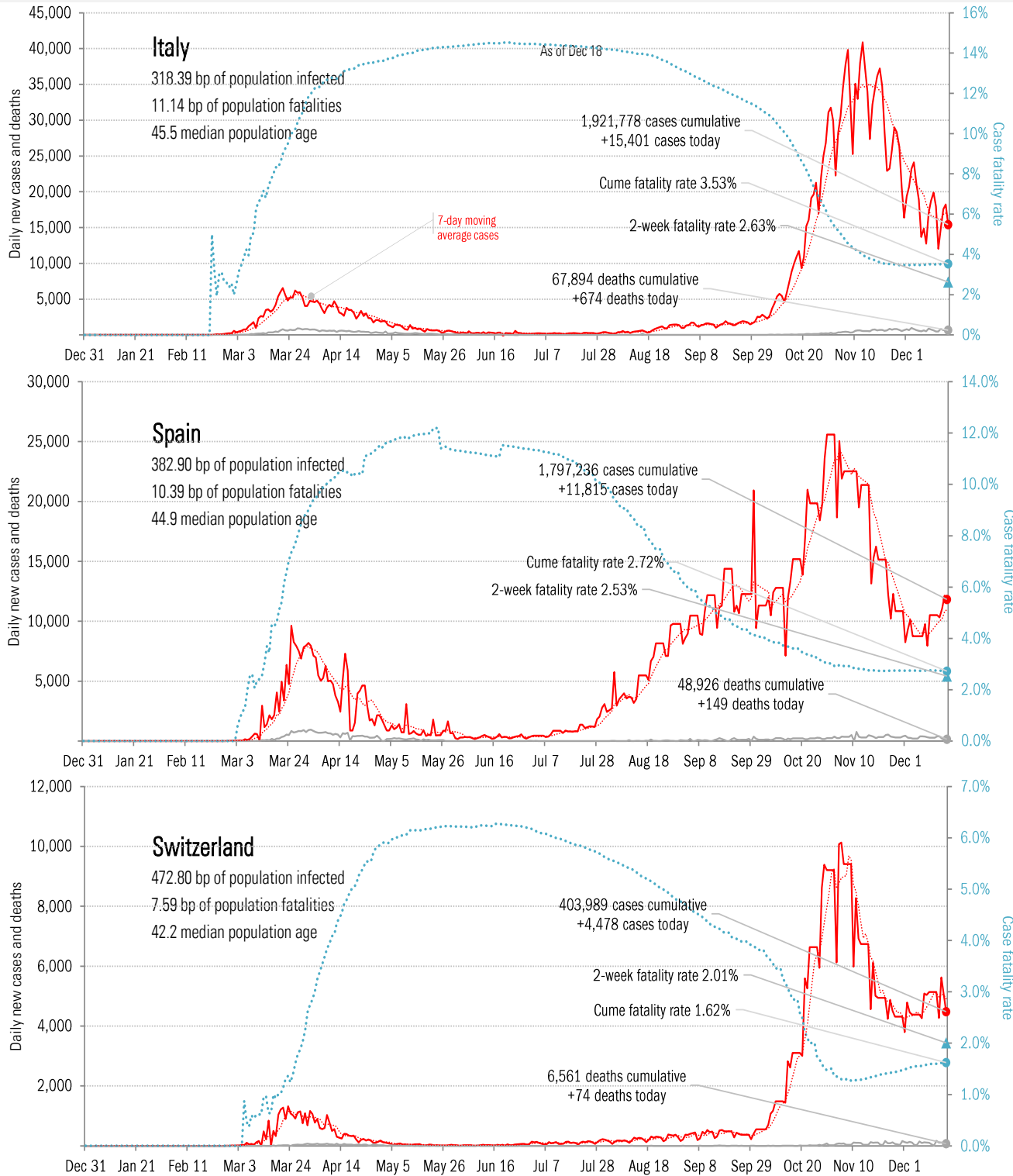
# Impact in The Anglosphere



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

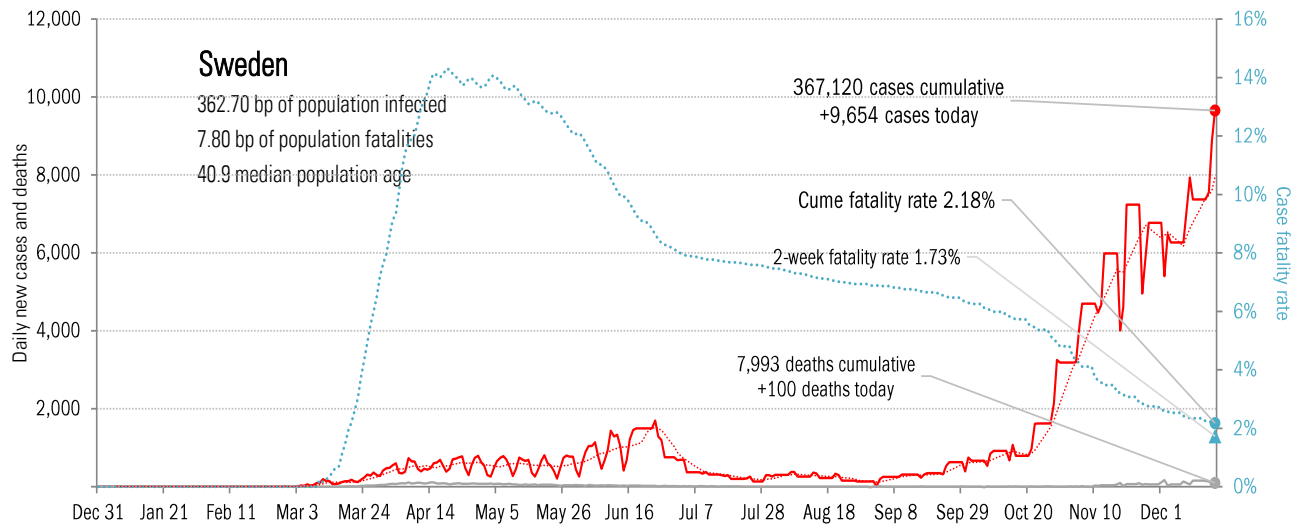
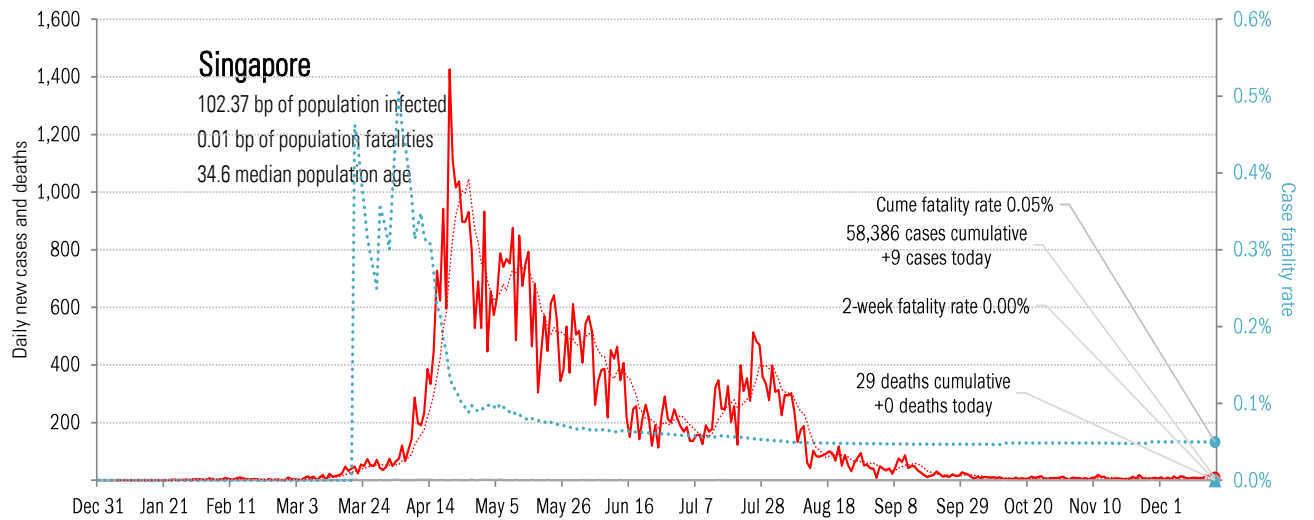
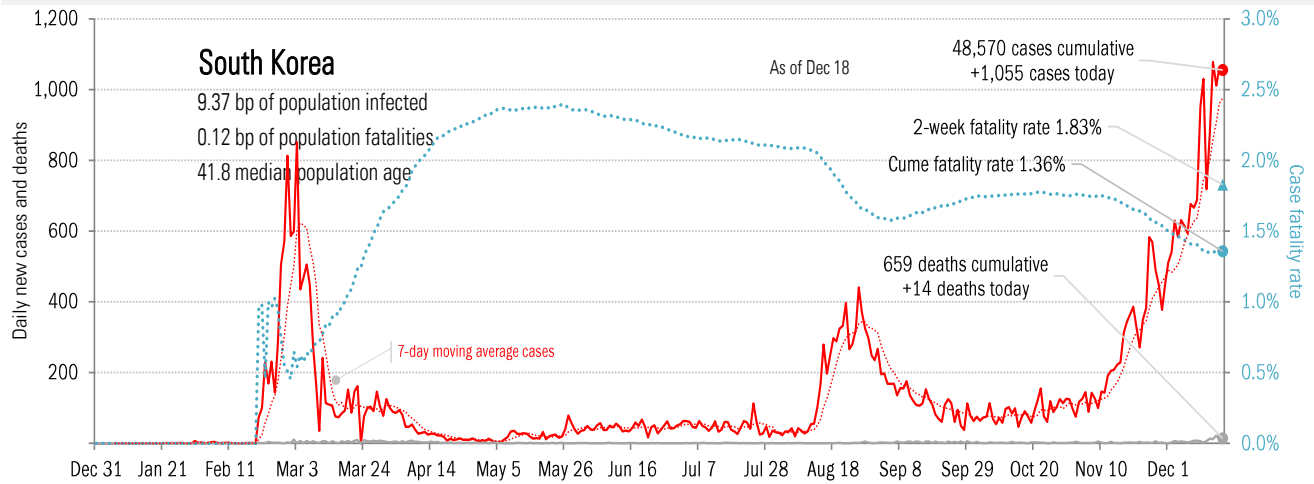


# Impact in continental Europe



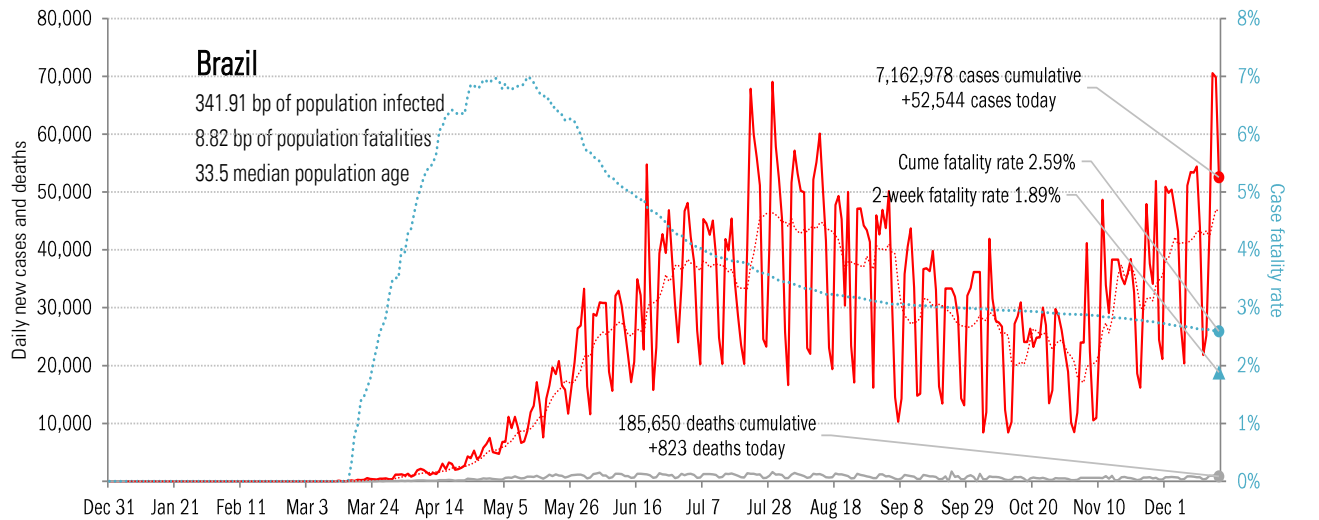
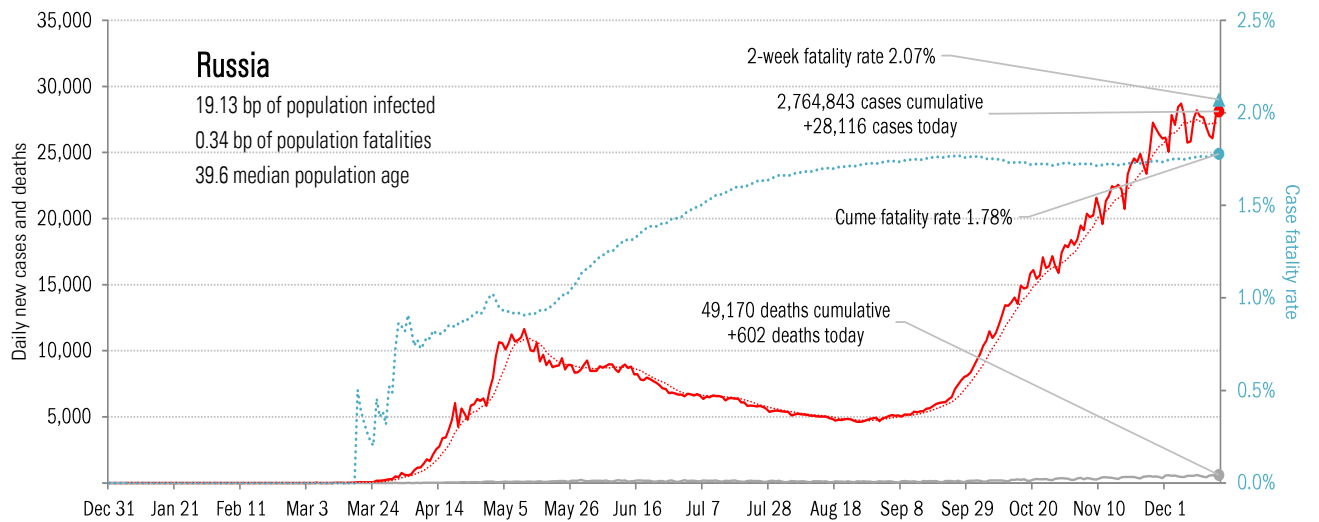
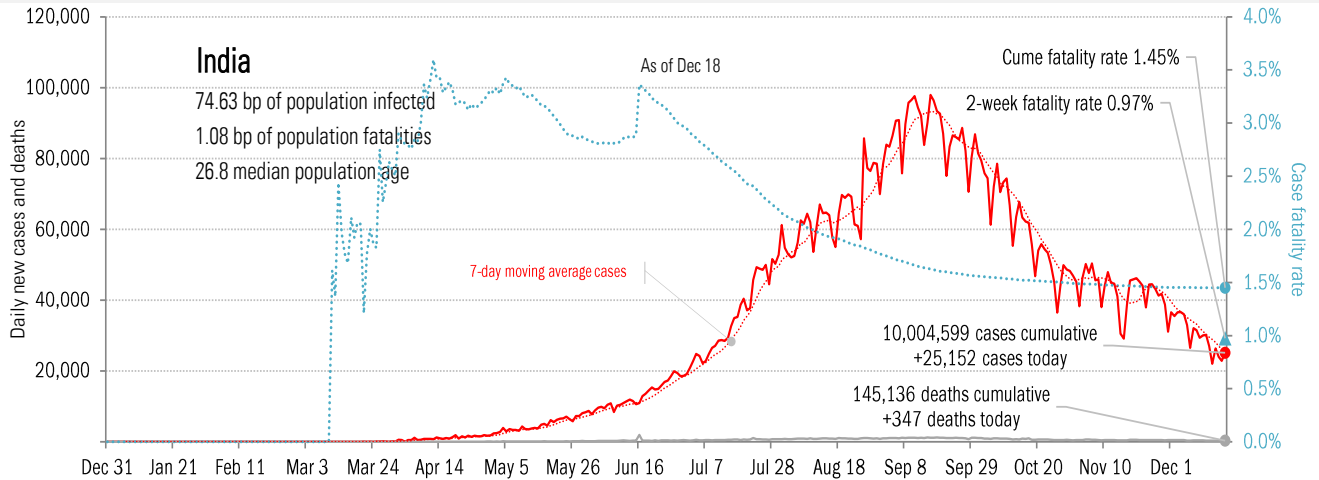
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



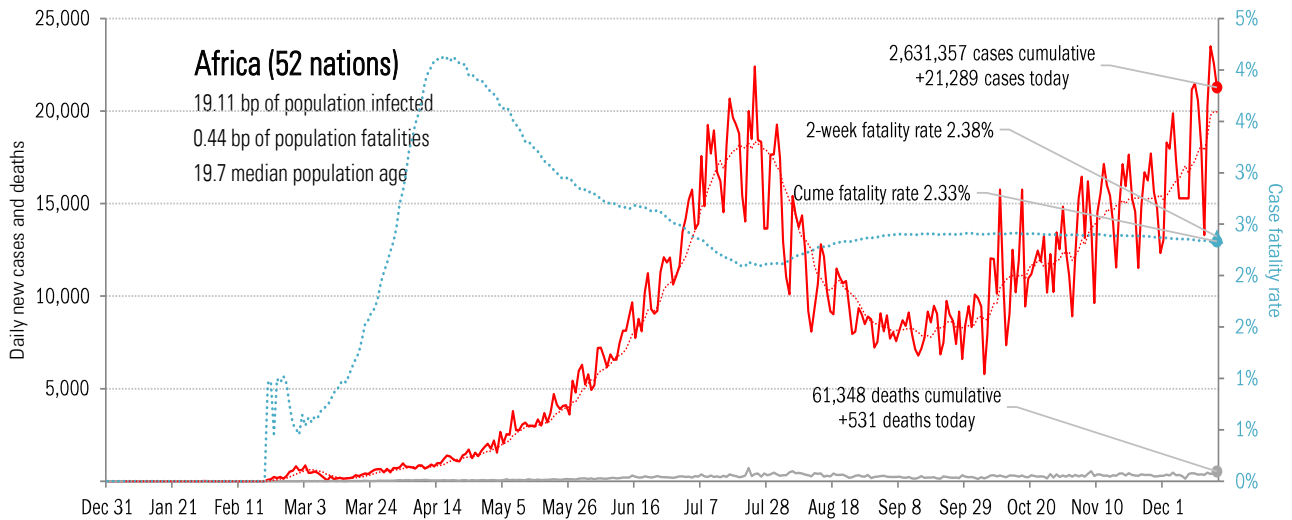
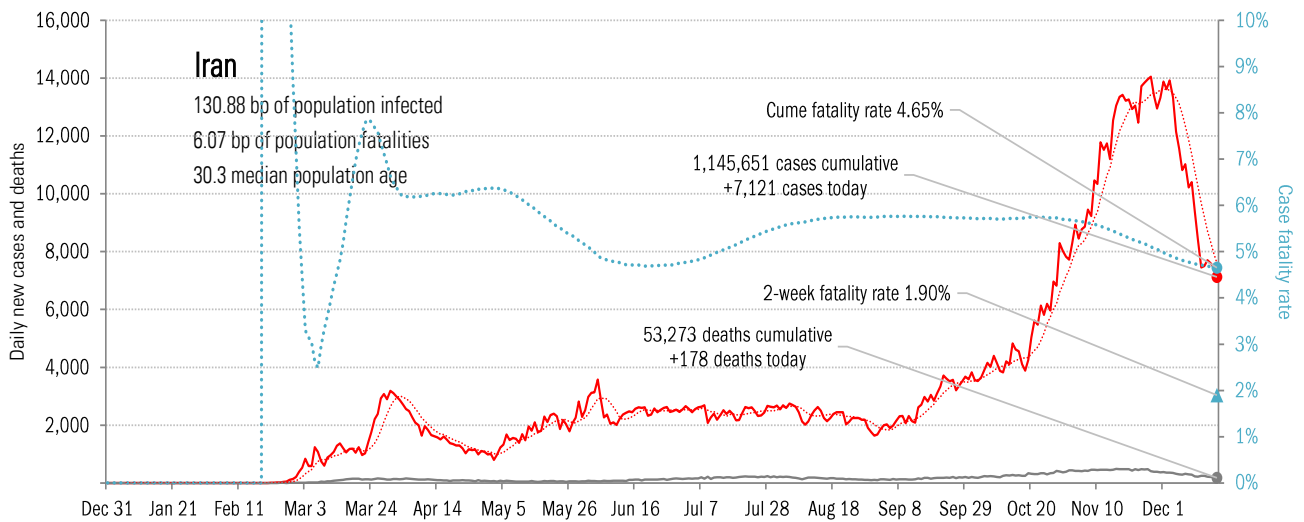
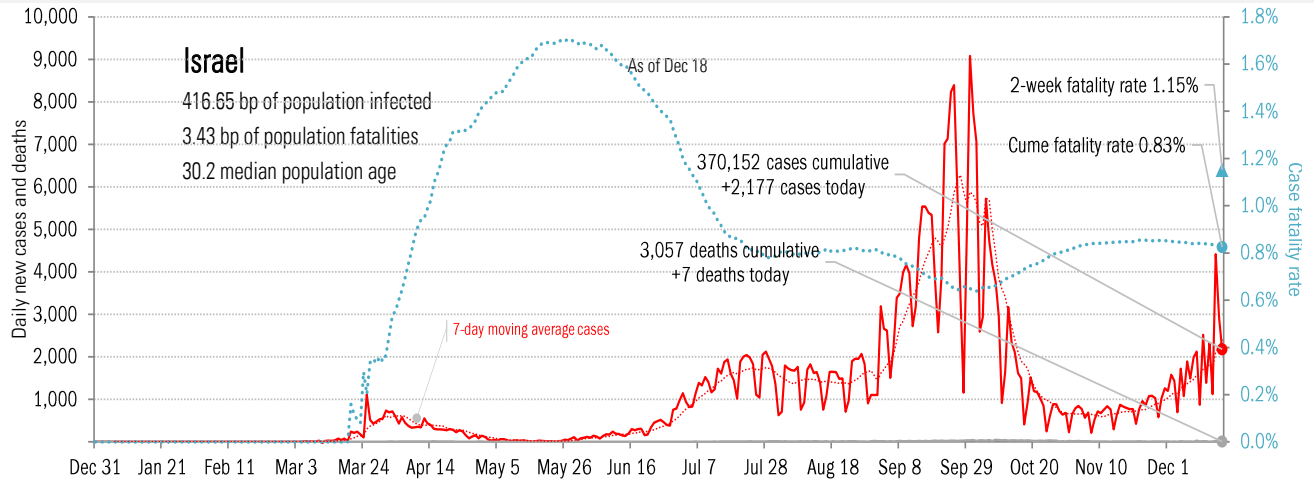
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



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

# Impact in the Middle East and Africa



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