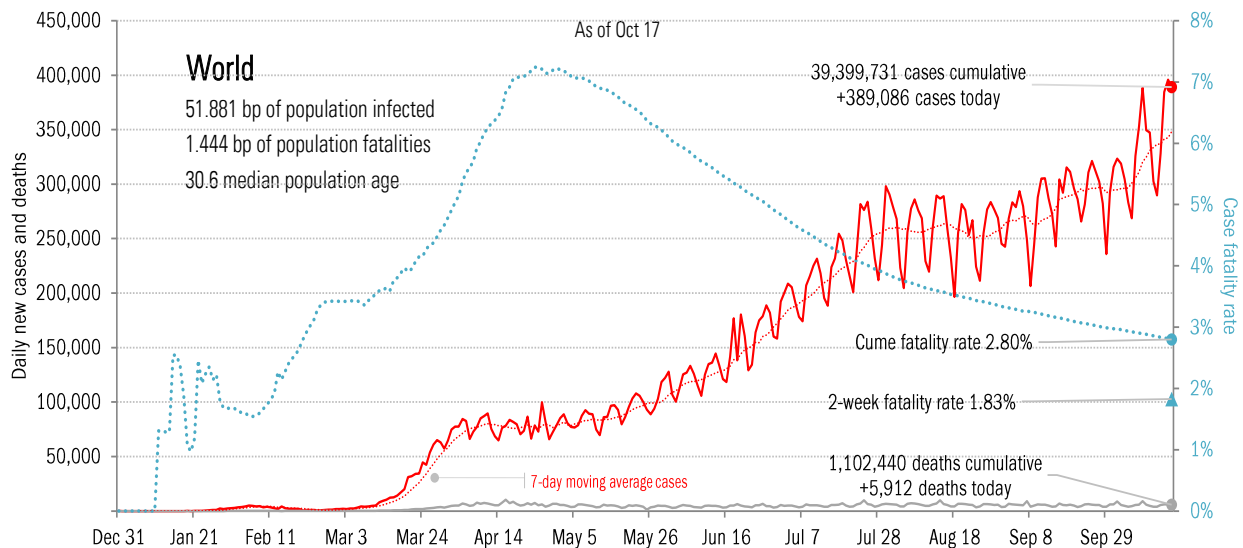
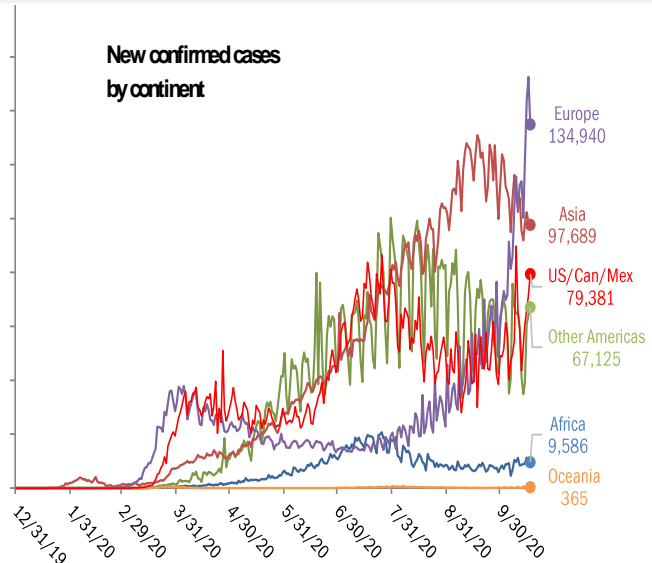


## Data Insights: Covid-2019 Monitor

Saturday, October 17, 2020

### The global scorecard

The worst ten countries			
New cases		New Deaths	
US	+70,256	US	+899
India	+62,212	India	+837
Brazil	+30,914	Brazil	+754
France	+25,086	Mexico	+419
Argentina	+16,546	Argentina	+381
United_Arab_Emirates	+15,635	Iran	+265
UK	+15,635	Russia	+232
South_Sudan	+15,186	France	+178
Russia	+15,150	Colombia	+159
Czechia	+11,102	UK	+136
<b>+277,722</b>		<b>+4,260</b>	
World	+389,086	World	+5,912
Top ten	71%	Top ten	72%



Source: [ECDC](https://ecdc.europa.eu/en), TrendMacro calculations

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 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

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# The US scorecard

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

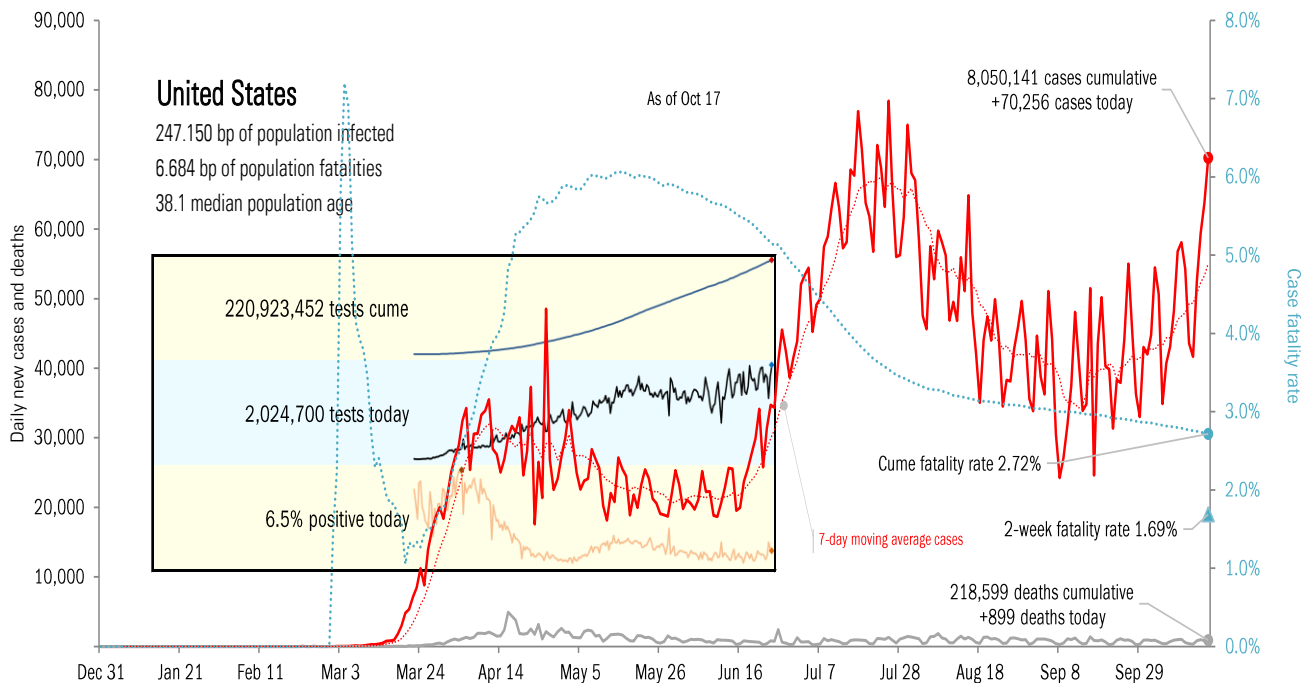
## The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
TX	+5,870	FL	+98	IL	+84	CA	861,476	NY	25,628	NY	89,995
IL	+5,103	TX	+91	WI	+58	TX	815,678	TX	16,903	FL	47,396
WI	+4,105	CA	+73	CH	+43	FL	748,437	CA	16,830	GA	30,217
FL	+3,449	GA	+64	MN	+39	NY	481,107	NJ	16,202	NJ	24,160
CA	+3,075	IL	+52	PA	+31	IL	339,761	FL	16,030	AZ	20,491
NC	+2,684	NC	+36	UT	+27	GA	337,850	MA	9,702	VA	19,913
MN	+2,290	AL	+30	AZ	+21	NC	241,623	IL	9,425	AL	18,855
IN	+2,283	MA	+30	NY	+21	AZ	229,486	PA	8,457	CH	16,910
MI	+2,206	PA	+25	MT	+18	TN	223,493	GA	7,556	MD	16,288
CH	+2,148	IN	+23	AL	+15	NJ	217,804	MI	7,317	IN	14,473
<b>+33,213</b>		<b>+522</b>		<b>+357</b>		<b>4,496,715</b>		<b>134,050</b>		<b>298,698</b>	
All states	+68,124	All states	+877	All states	+28	All states	8,007,690	All states	210,217	All states	432,745
Top ten	49%	Top ten	60%	Top ten	1275%	Top ten	56%	Top ten	64%	Top ten	69%

*Some states not reporting*

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TN	-1,623	FL	-46	TX	-147	AL	+8
AZ	-375	CA	-45	MI	-101	AR	+4
AR	-263	TN	-29	KY	-98	KS	+4
CA	-254	AL	-20	TN	-80	AK	+0
MI	-252	MI	-19	IN	-42	AS	+0



Source: States and test data [Covid Tracking Project](#), US data [ECDC](#), TrendMacro calculations

## Recommended reading

[Orthogonal SARS-CoV-2 Serological Assays Enable Surveillance of Low Prevalence Communities and Reveal Durable Humoral Immunity.](#)

Tyler J. Ripperger et al.  
*Immunity*  
October 14, 2020

[Untangling the Role of Trump, Unions, and Politics in School Reopening Decisions](#)

Andrew Ujifusa  
*Education Week*  
October 13, 2020

[TikTok users are trying to tank Donald Trump's town hall ratings](#)

Daniel Van Boom  
*cNet*  
October 15, 2020

[FCC Set to Tackle Social Media Liability Limits, Pai Says](#)

Jon Reid  
*Bloomberg*  
October 15, 2020

[Coronavirus Reinfections Are Real but Very, Very Rare](#)

Apoorva Mandavilli  
*New York Times*  
October 13, 2020

[Andrew Cuomo Takes a 'Hatchet'](#)

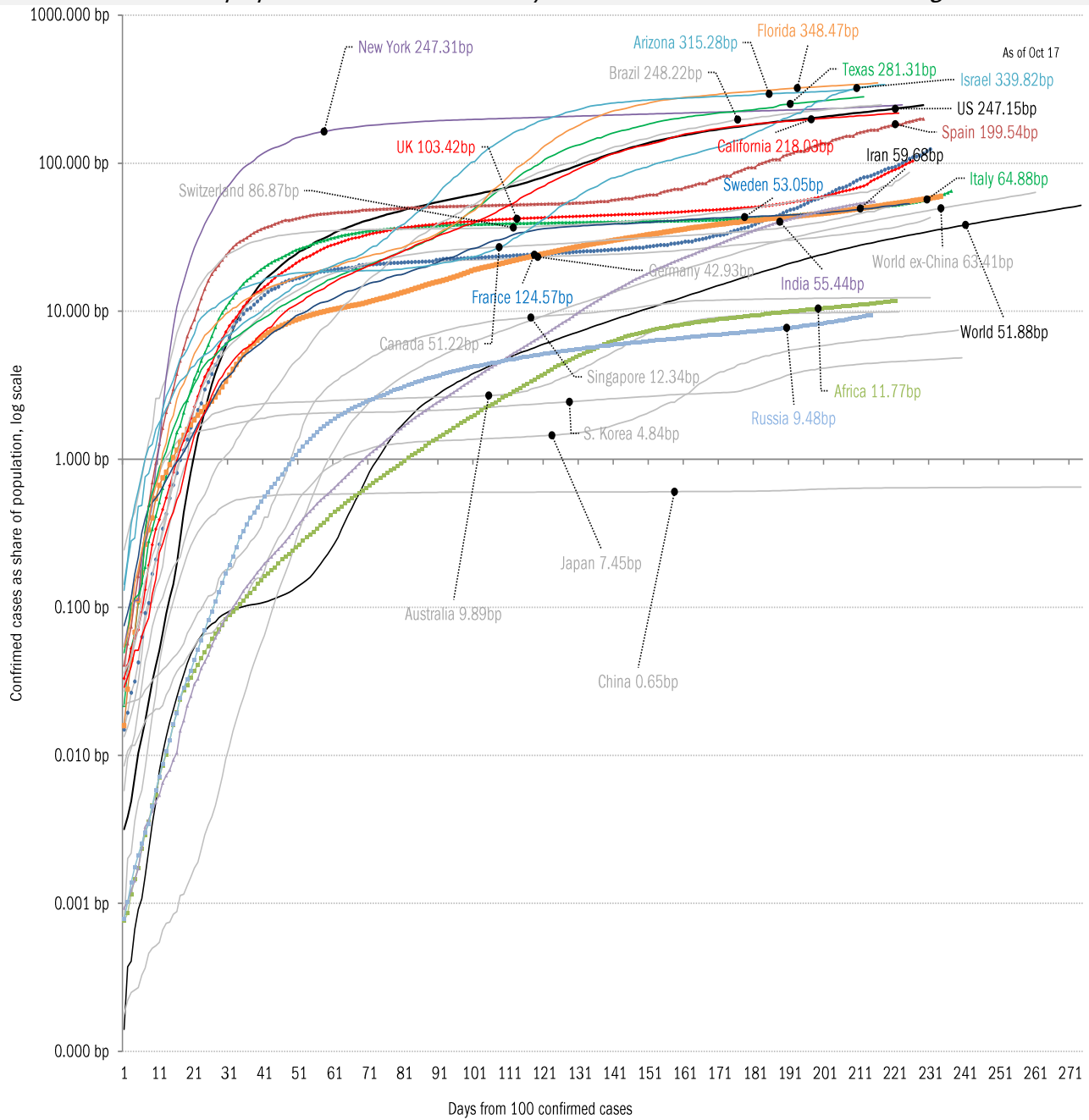
*Wall Street Journal*  
October 15, 2020

## Meme of day



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

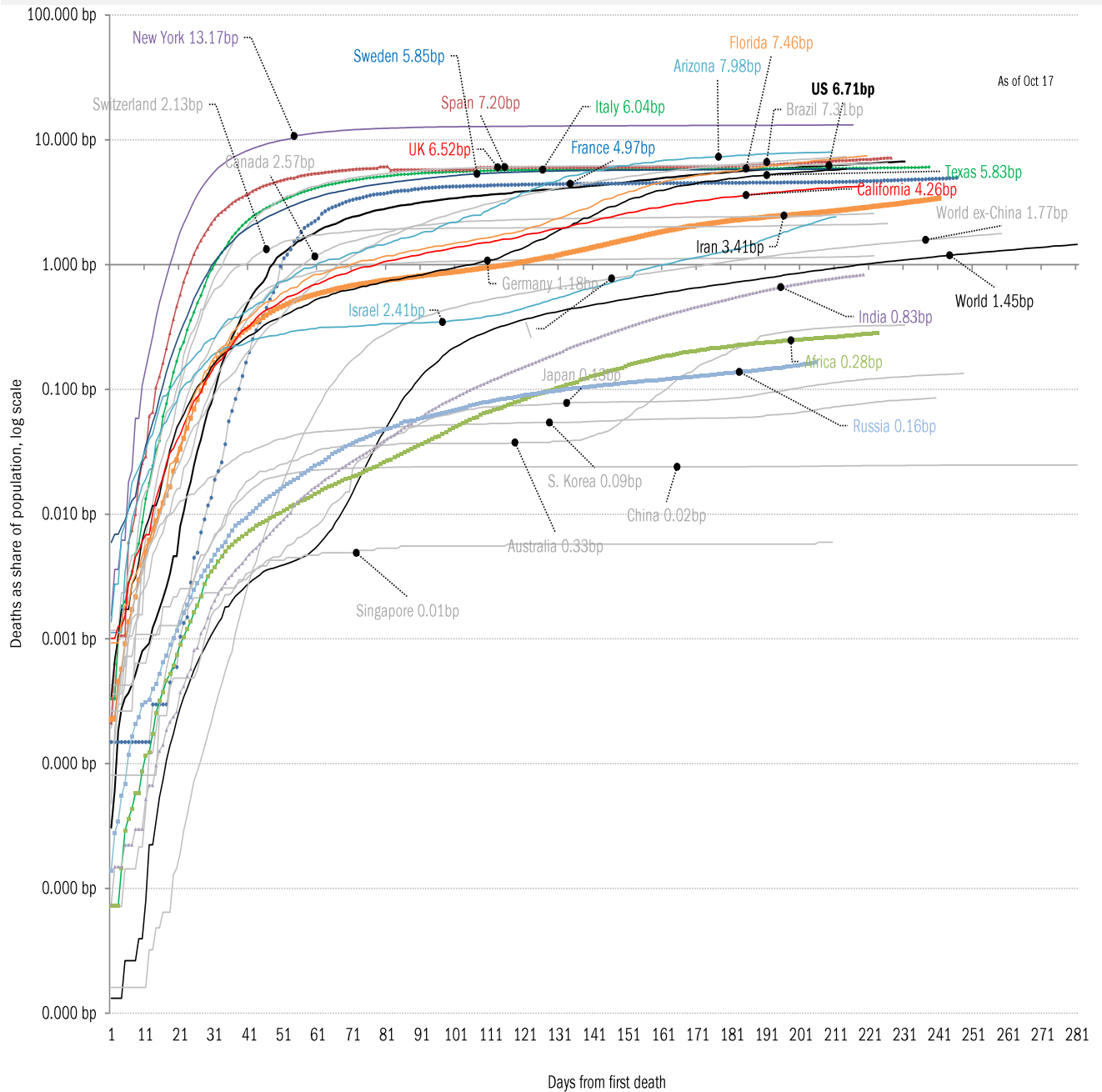
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



Source: [ECDC](#), TrendMacro calculations

# The coronavirus mortality accelerometer ... tracking the world's fatality curves

## Share of deceased population from day of first fatality

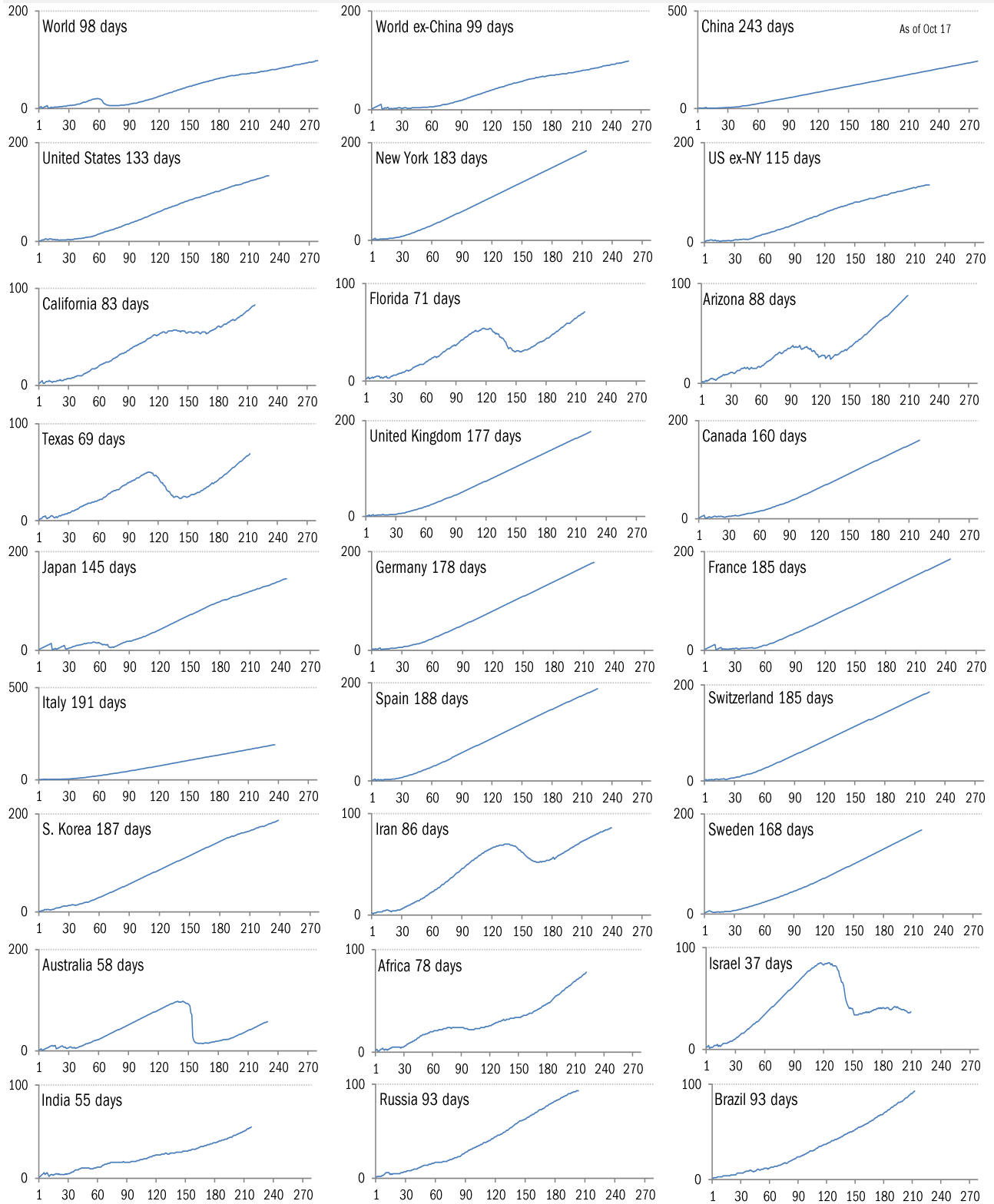


Source: [ECDC](#), TrendMacro calculations

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

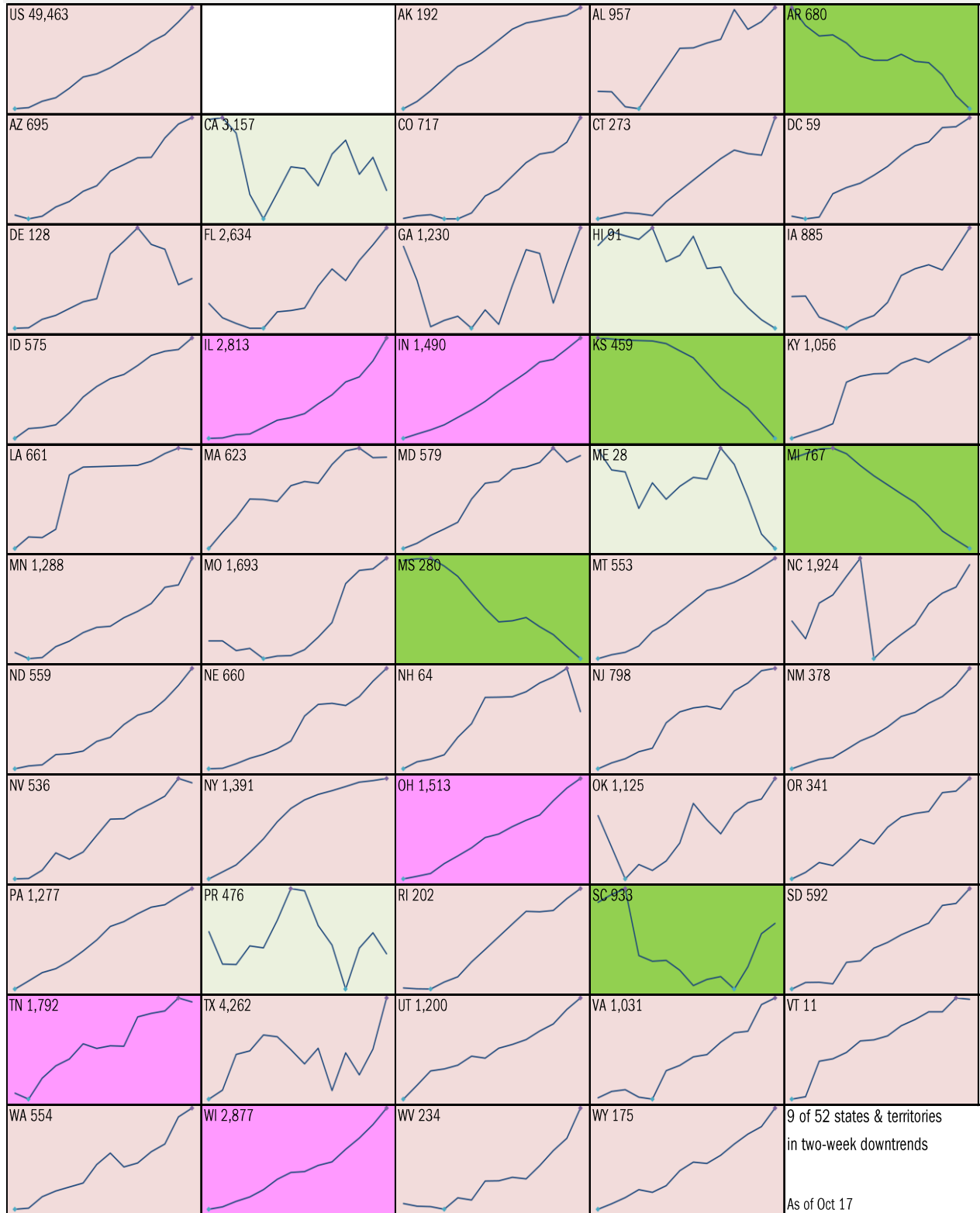
Vertical: days to double deaths Horizontal: days from first death

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



Source: [ECDC](#), 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

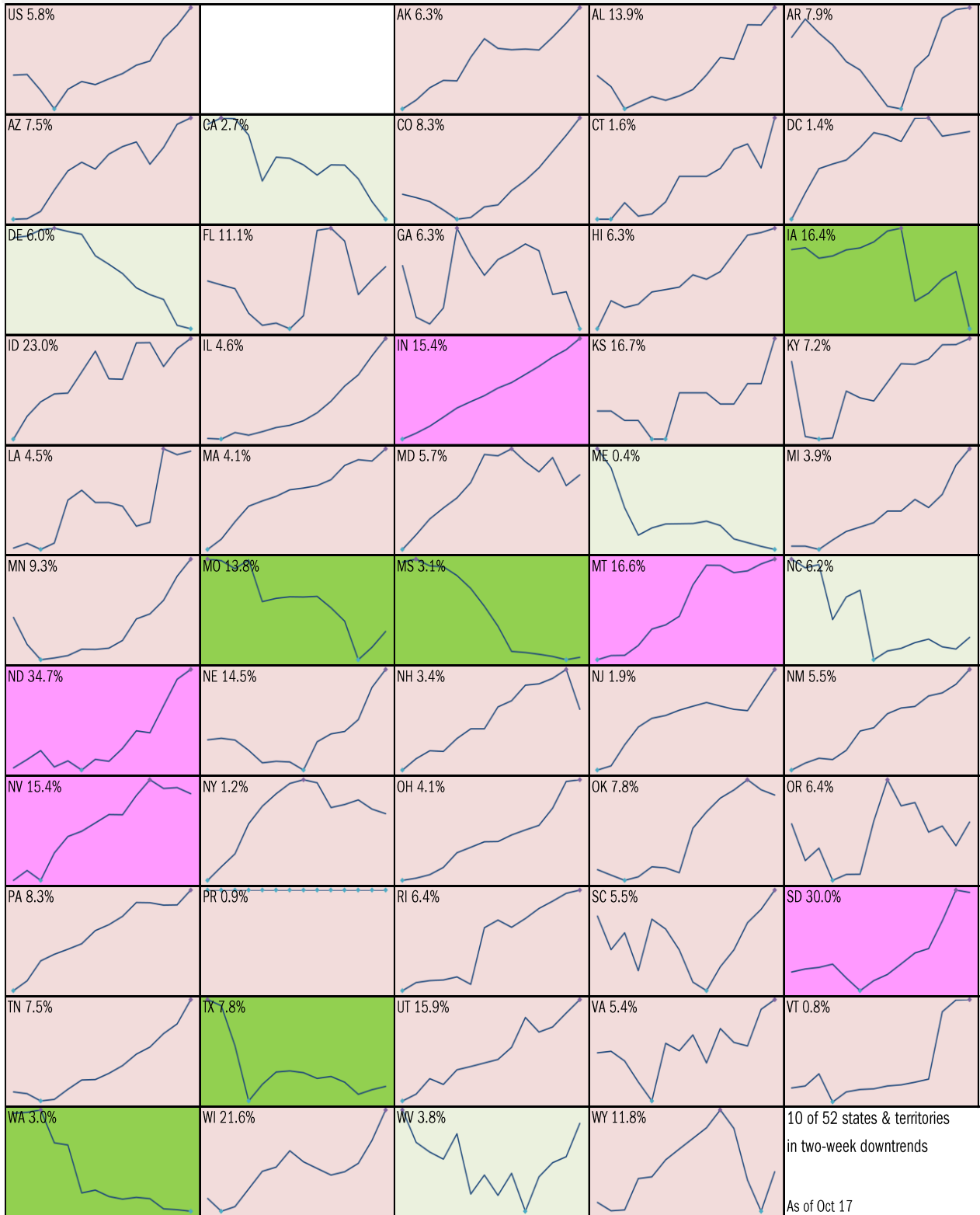


Source: [Covid Tracking Project](#), TrendMacro calculations

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

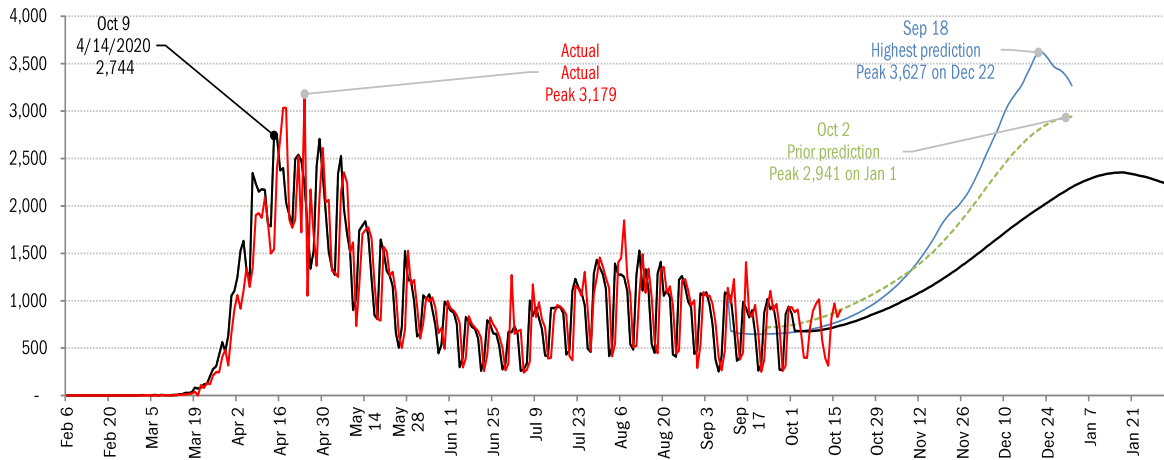


# Reality-checking the models: actuals versus [IHME](#) predictions

## New daily fatalities

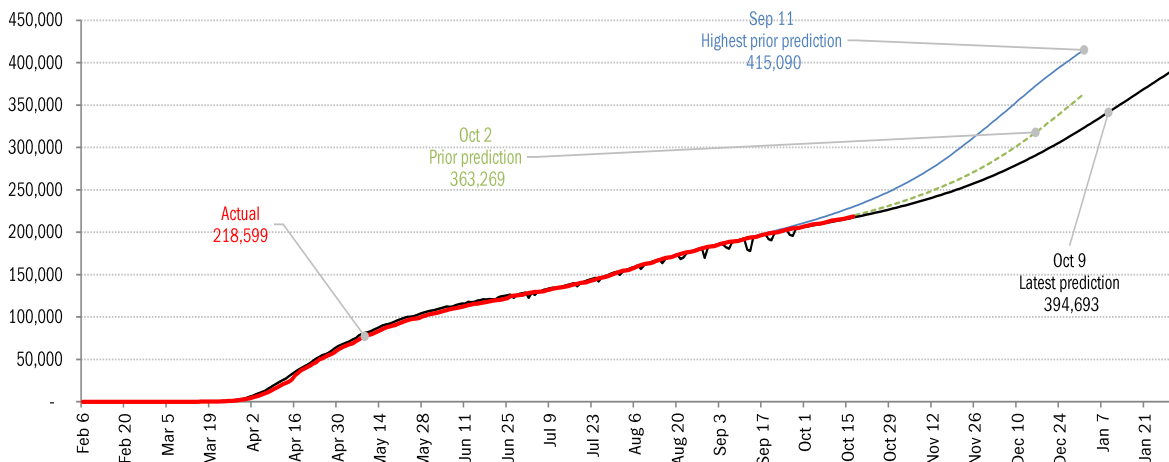
As of Oct 17

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

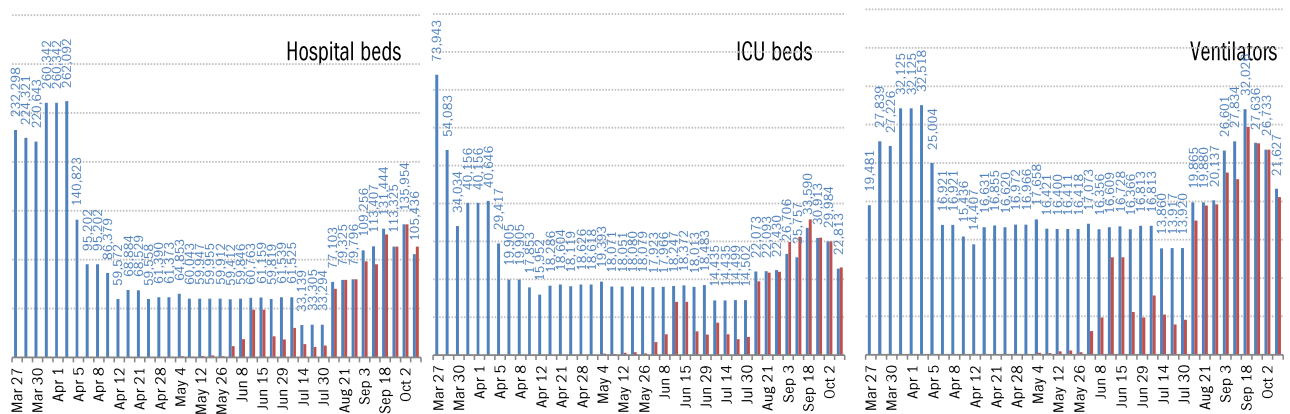


## Cumulative fatalities

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

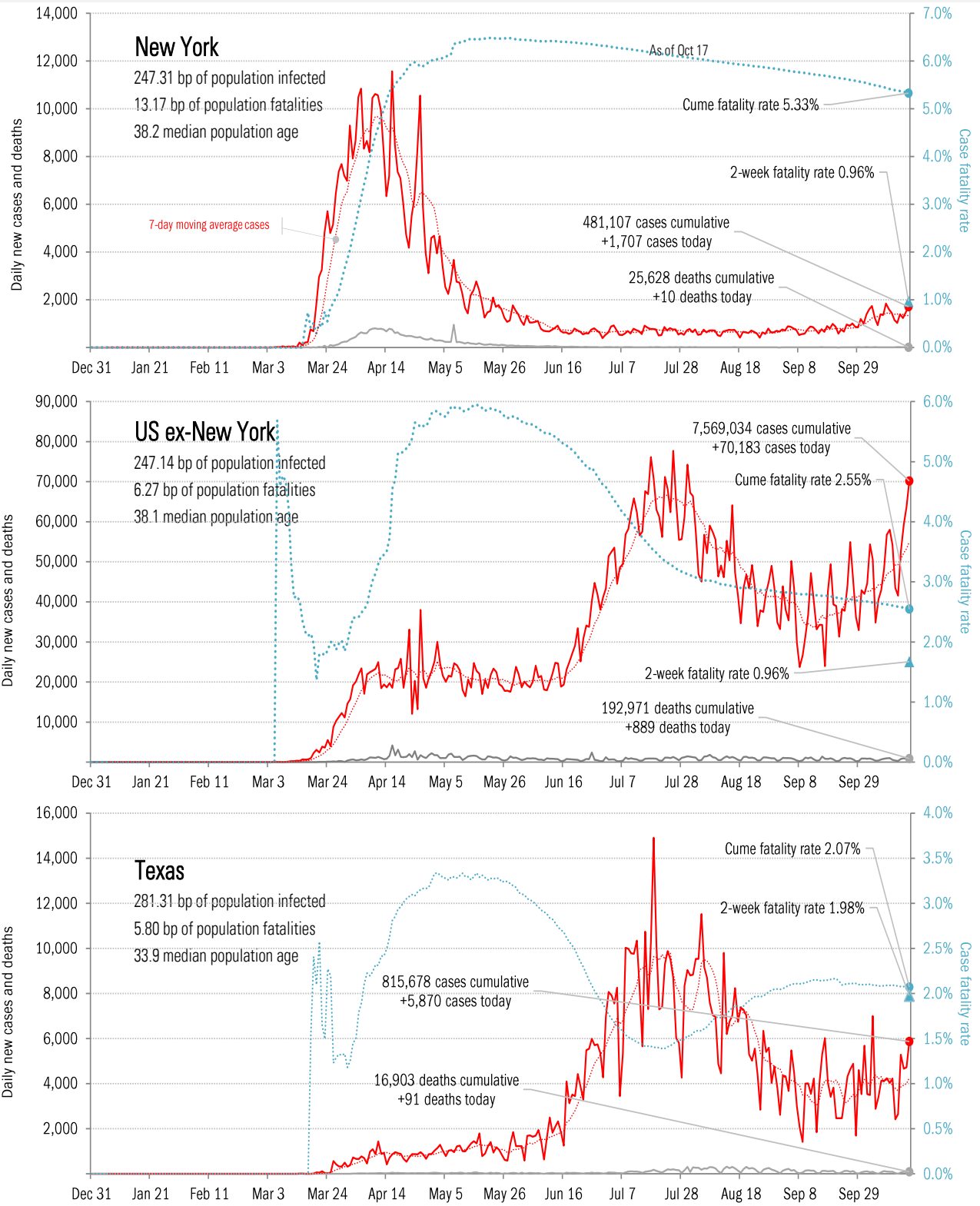


## Healthcare system stress, **peak** and **ultimate** estimated at each model revision



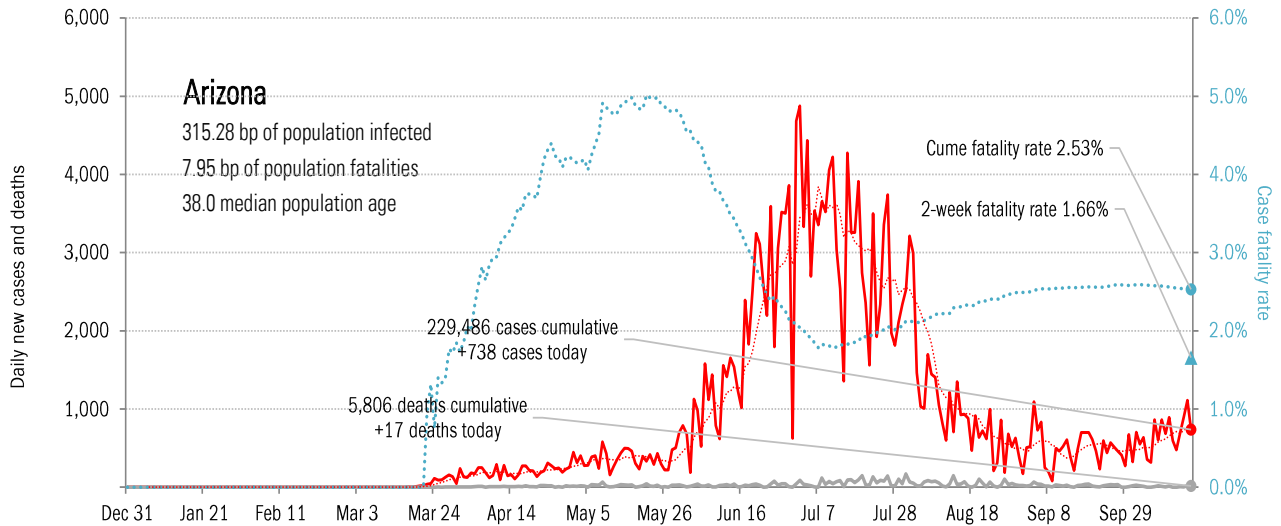
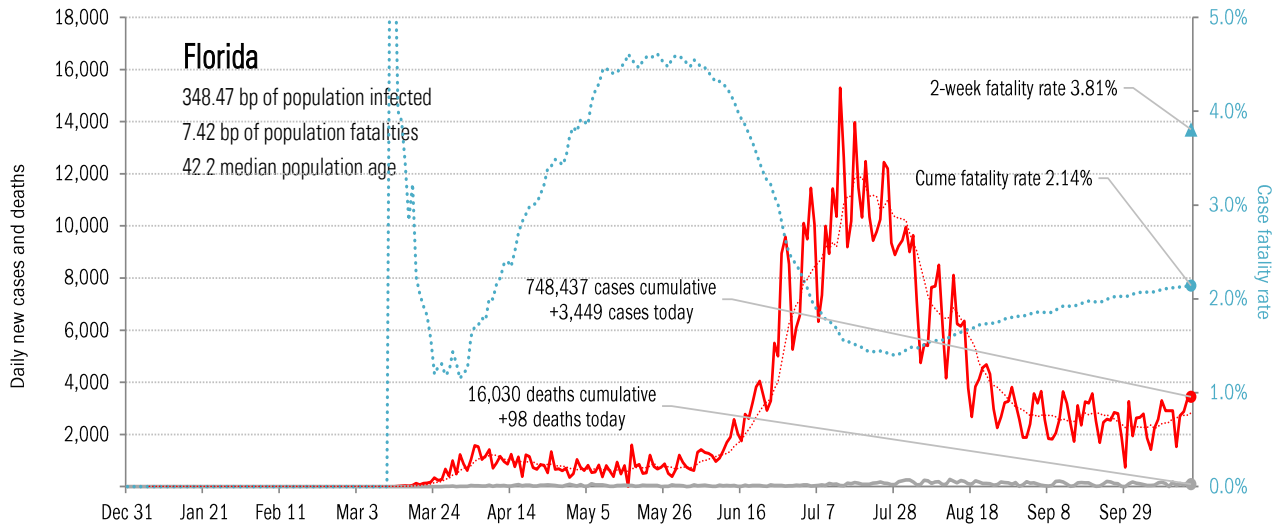
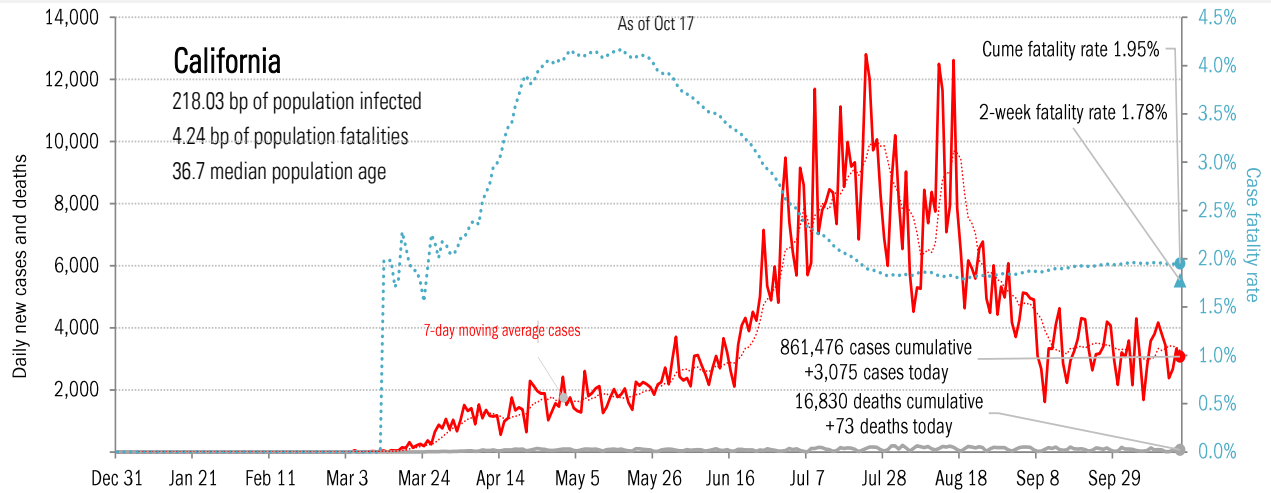
Source: [ECDC](#), [IHME](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



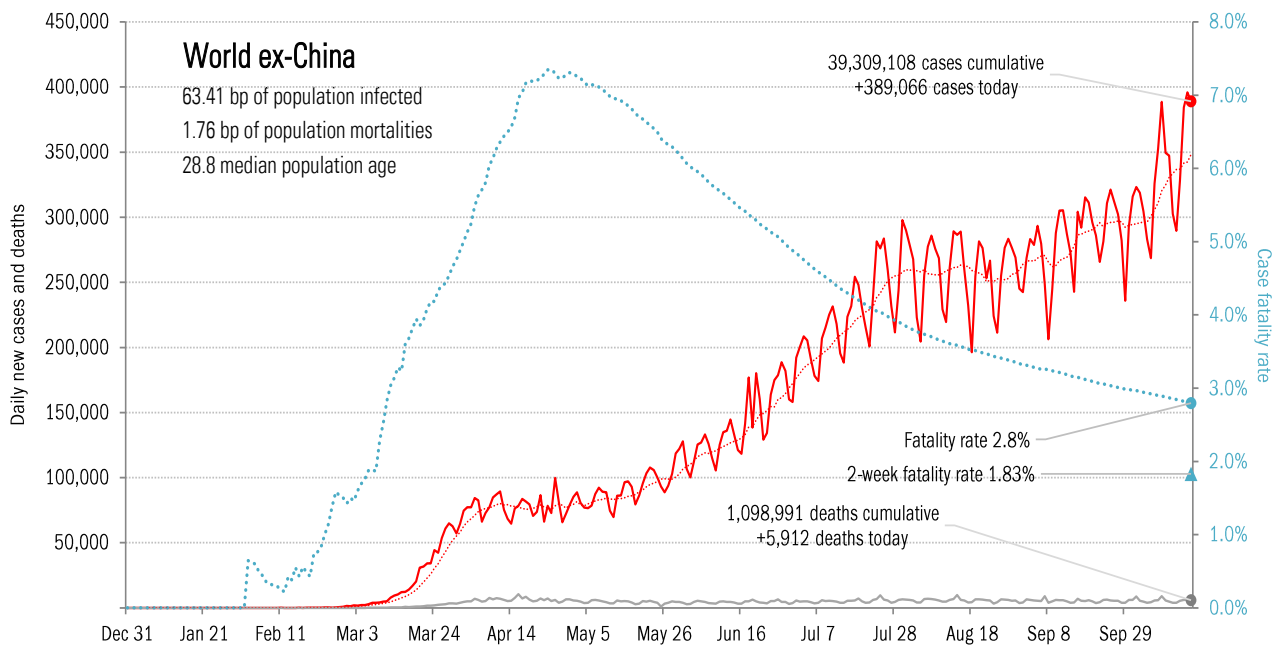
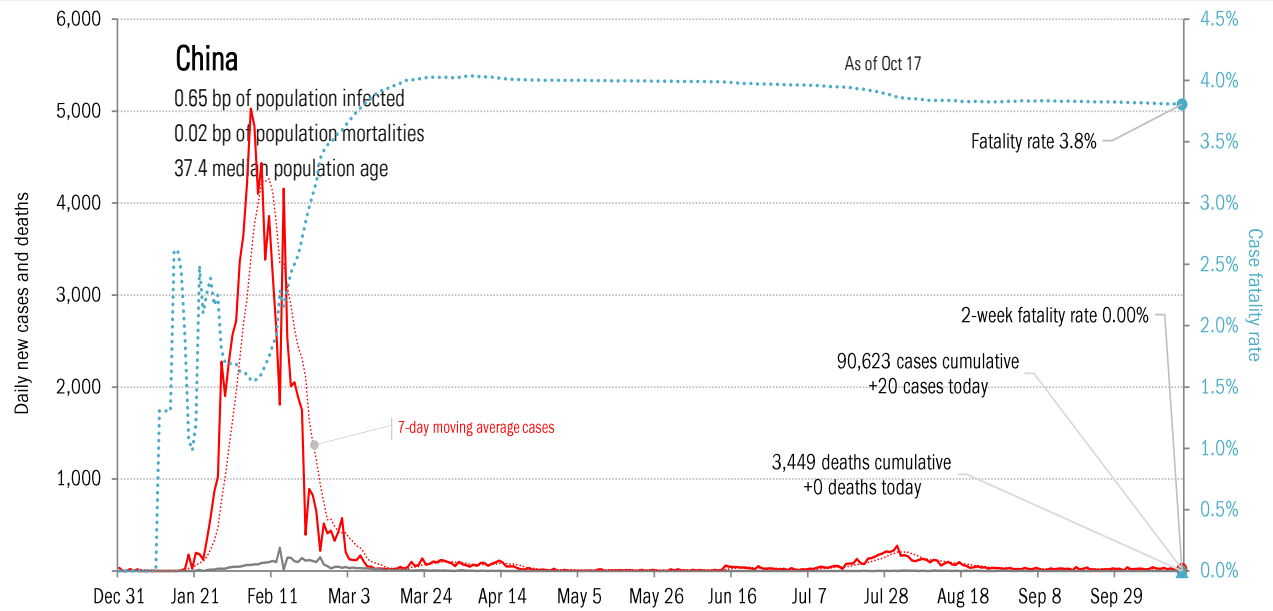
Source: [ECDC](#), TrendMacro calculations

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



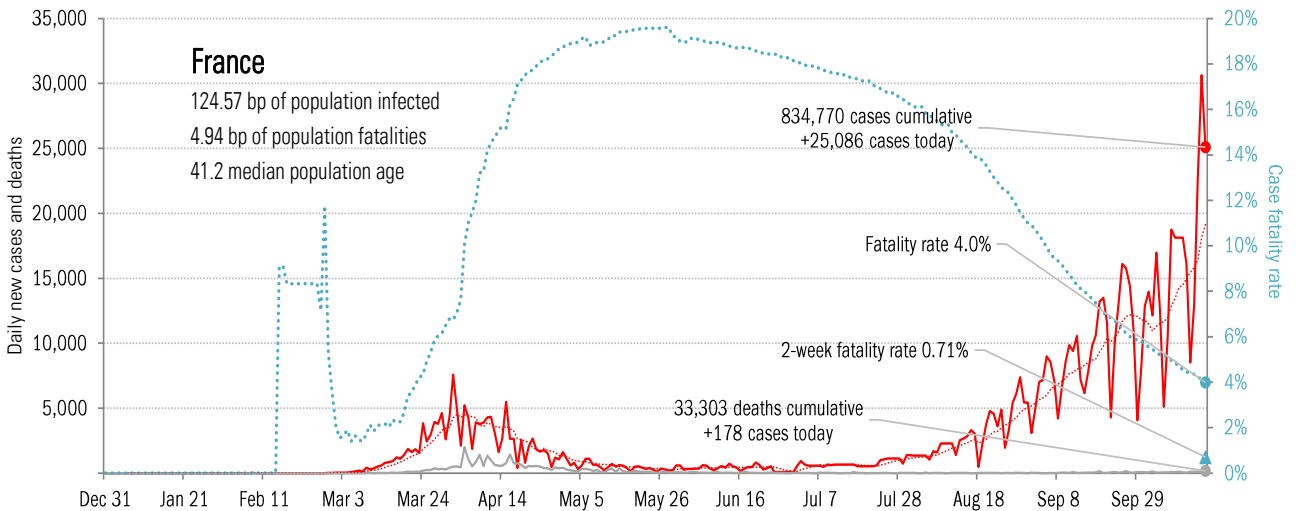
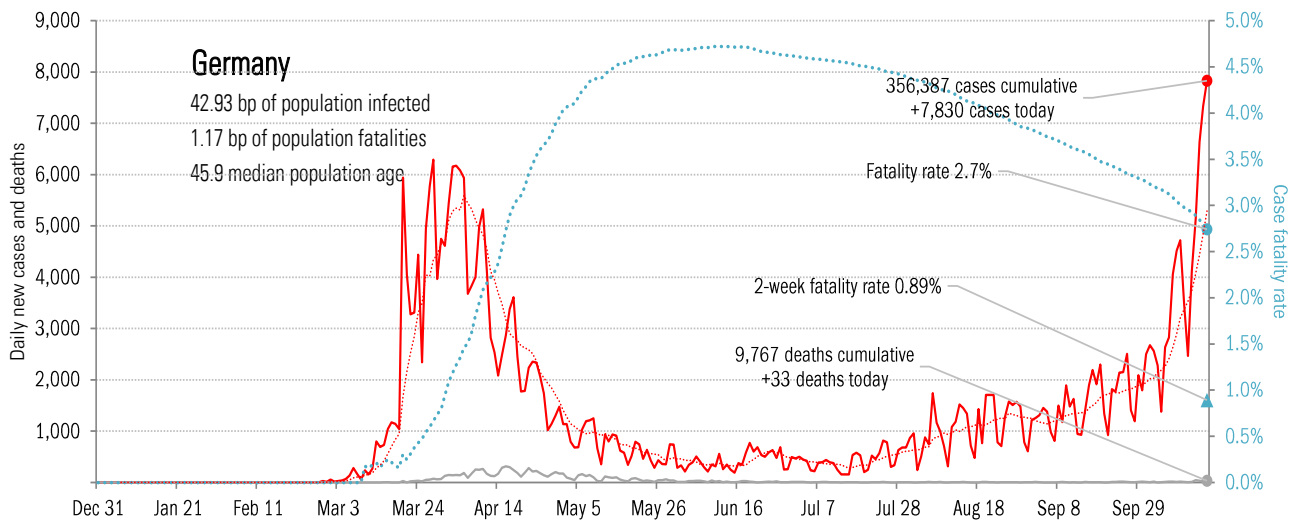
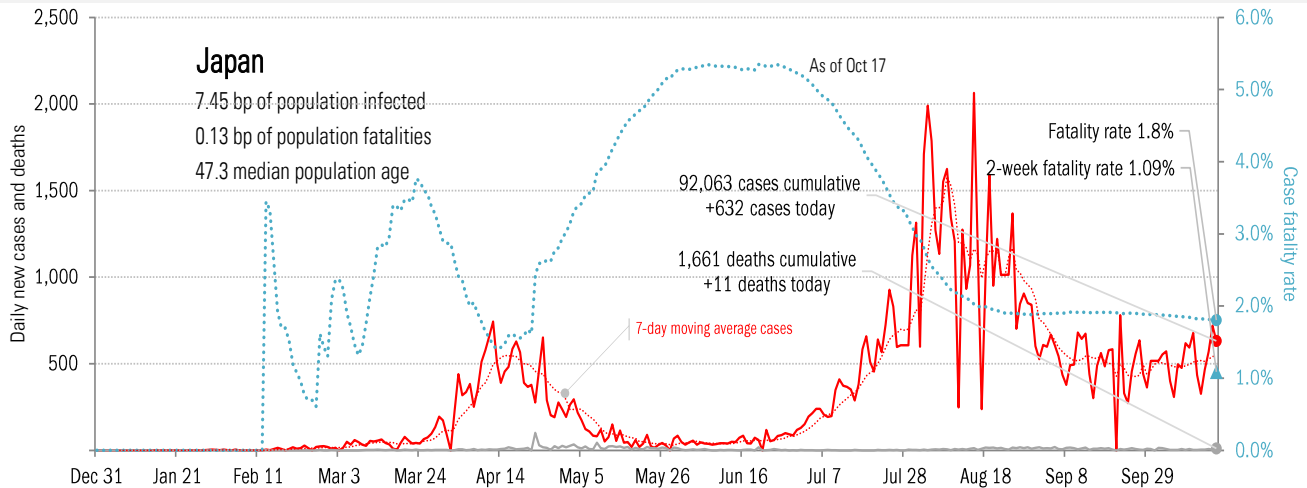
Source: [ECDC](#), TrendMacro calculations

# Patient zero... and then everyone else



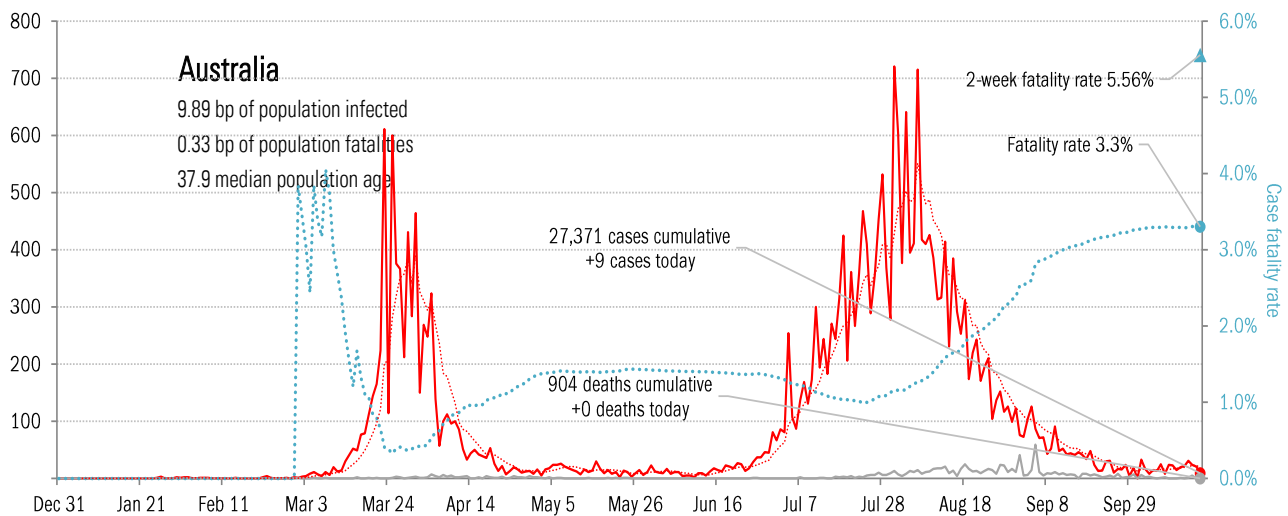
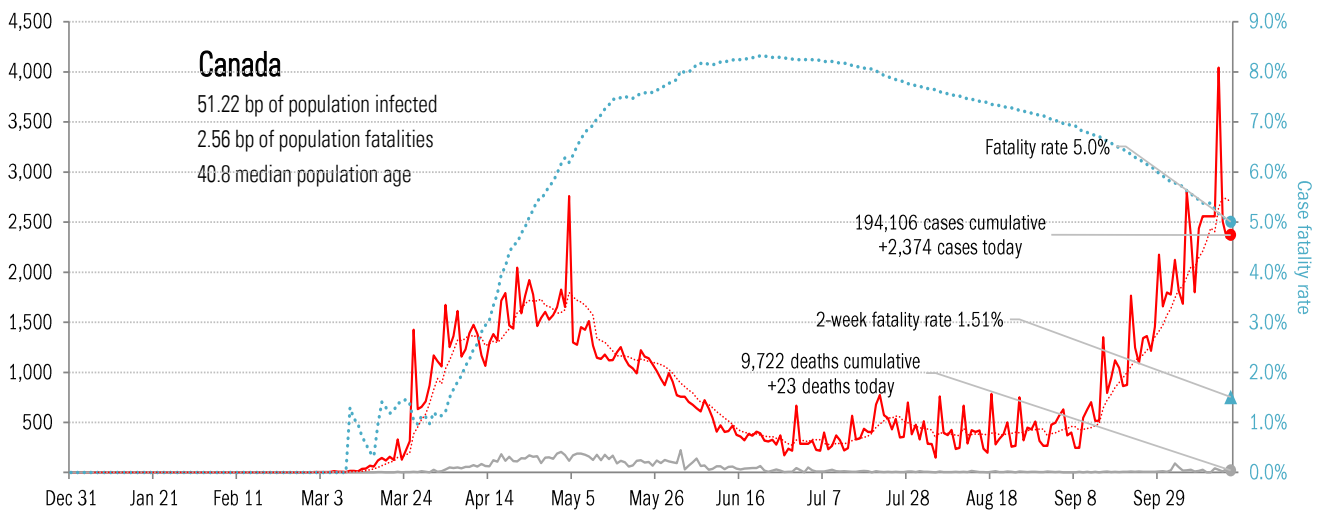
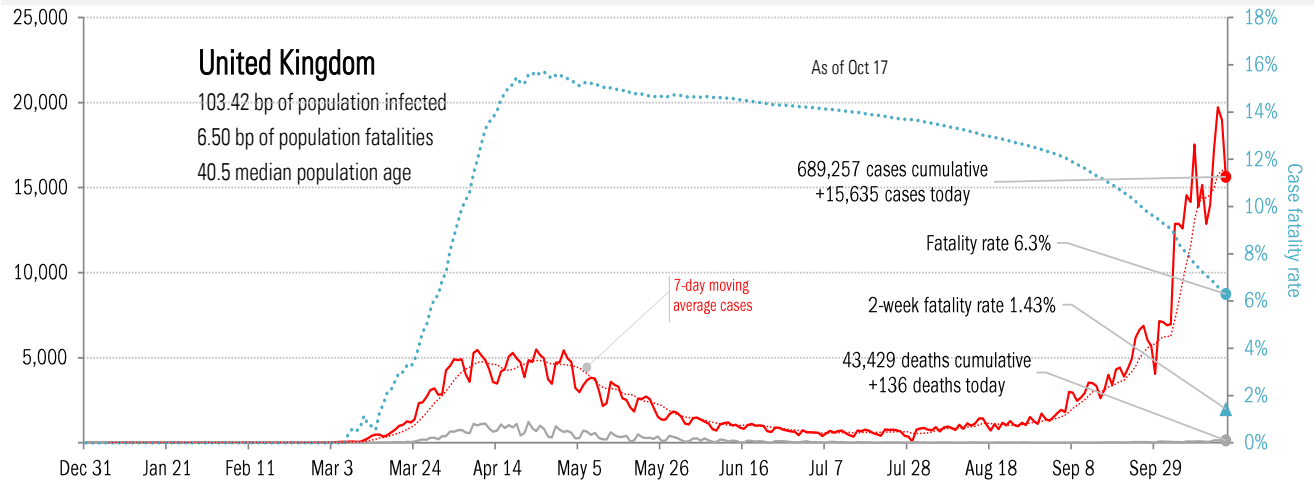
Source: [ECDC](#), TrendMacro calculations

# Impact in the largest economies



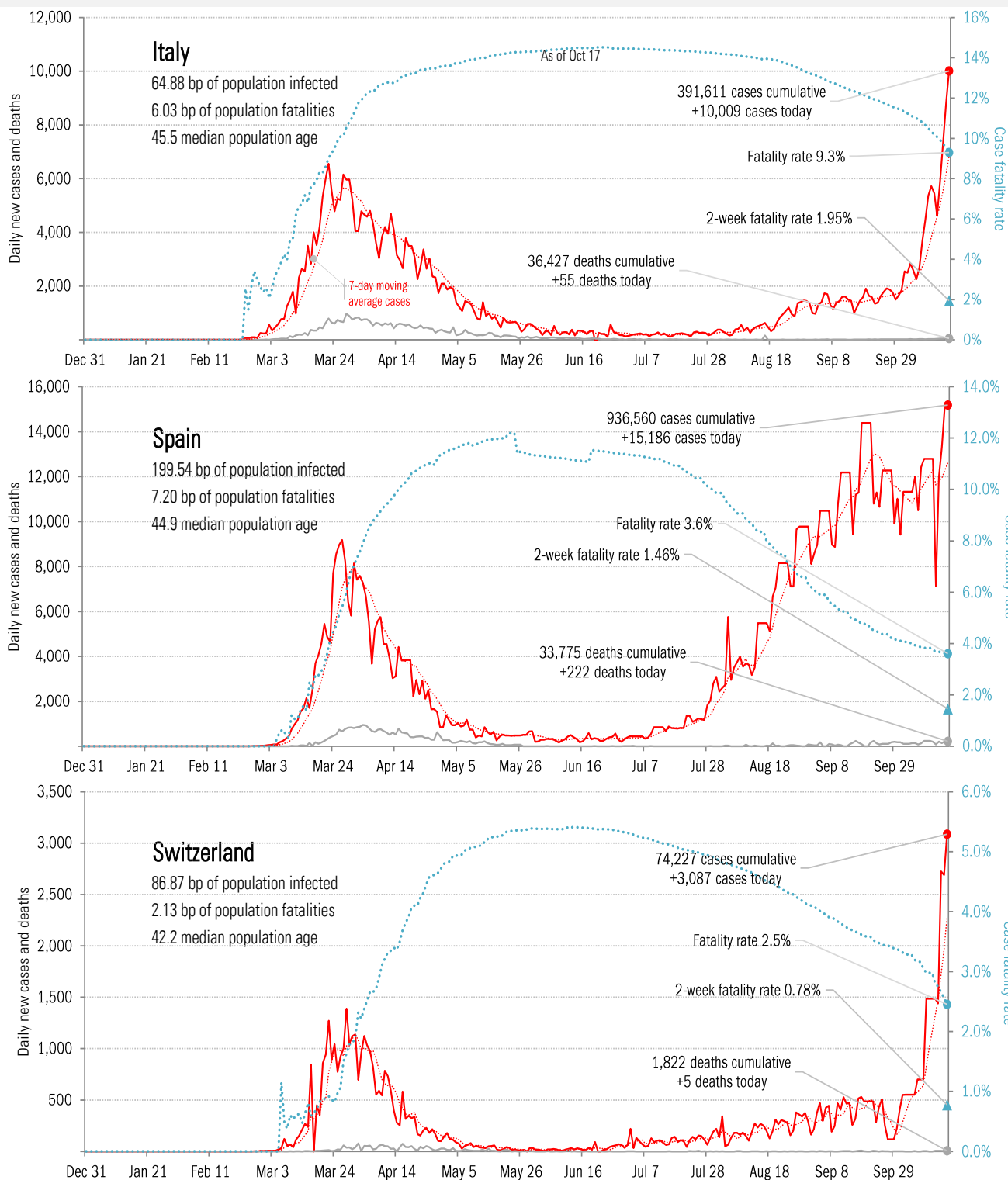
Source: [ECDC](#), TrendMacro calculations

# Impact in The Anglosphere



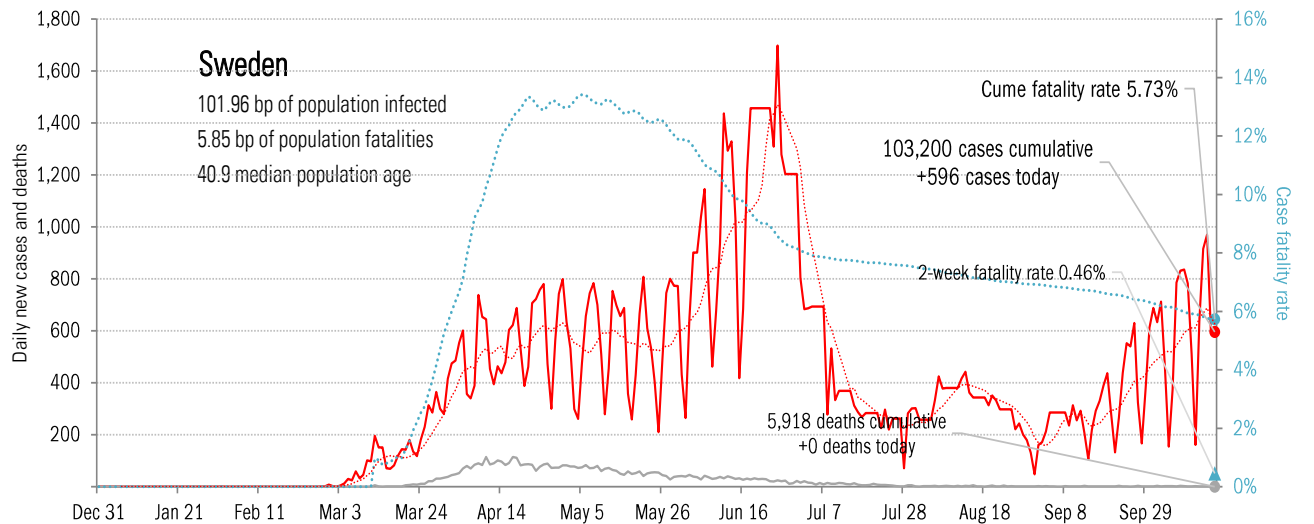
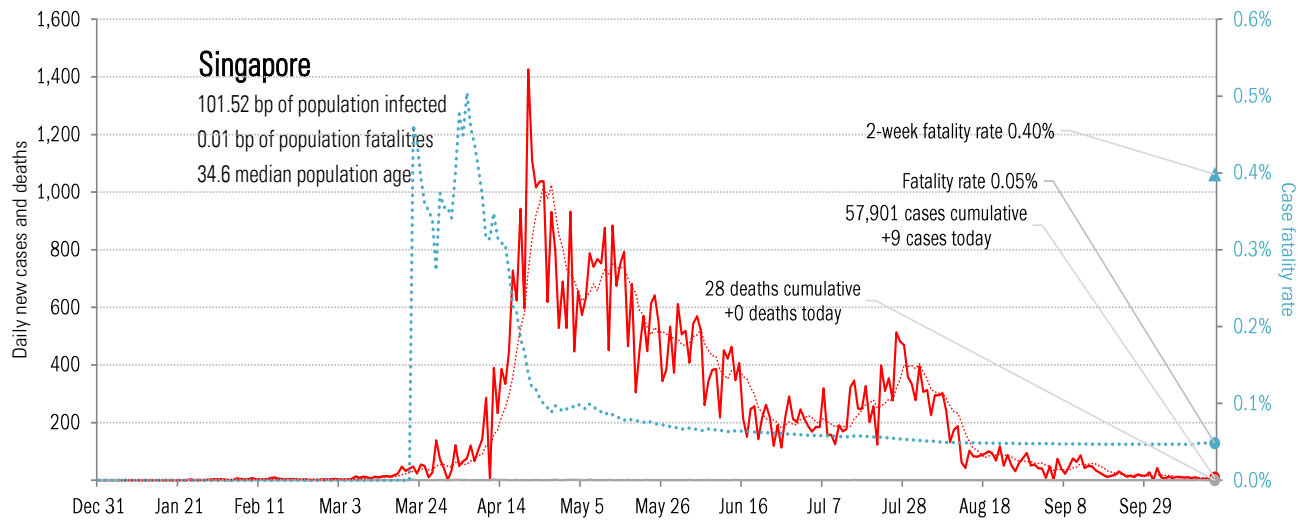
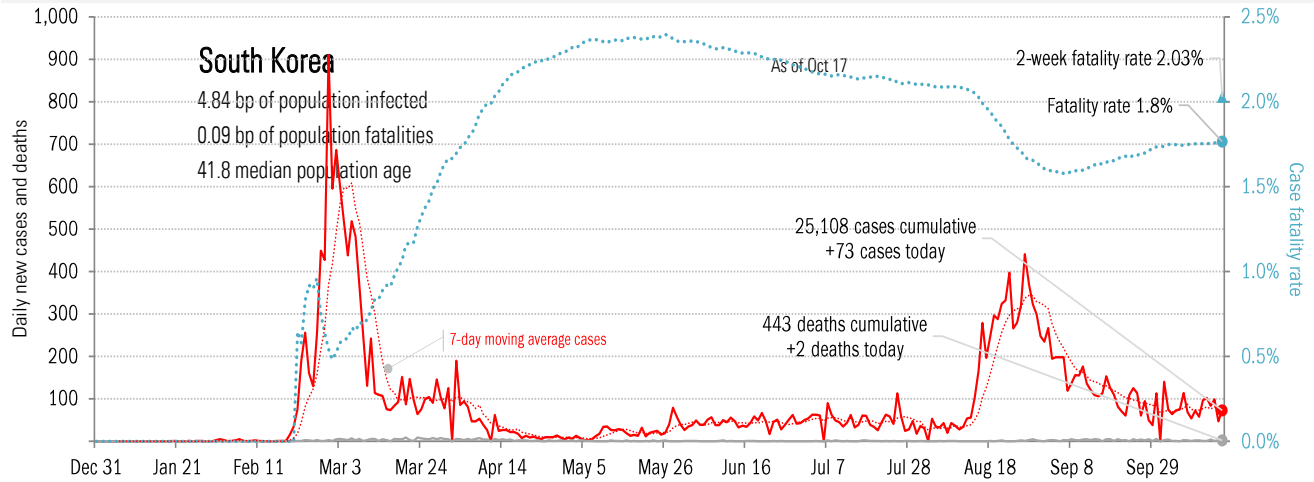
Source: [ECDC](#), TrendMacro calculations

# Impact in continental Europe



Source: [ECDC](#), TrendMacro calculations

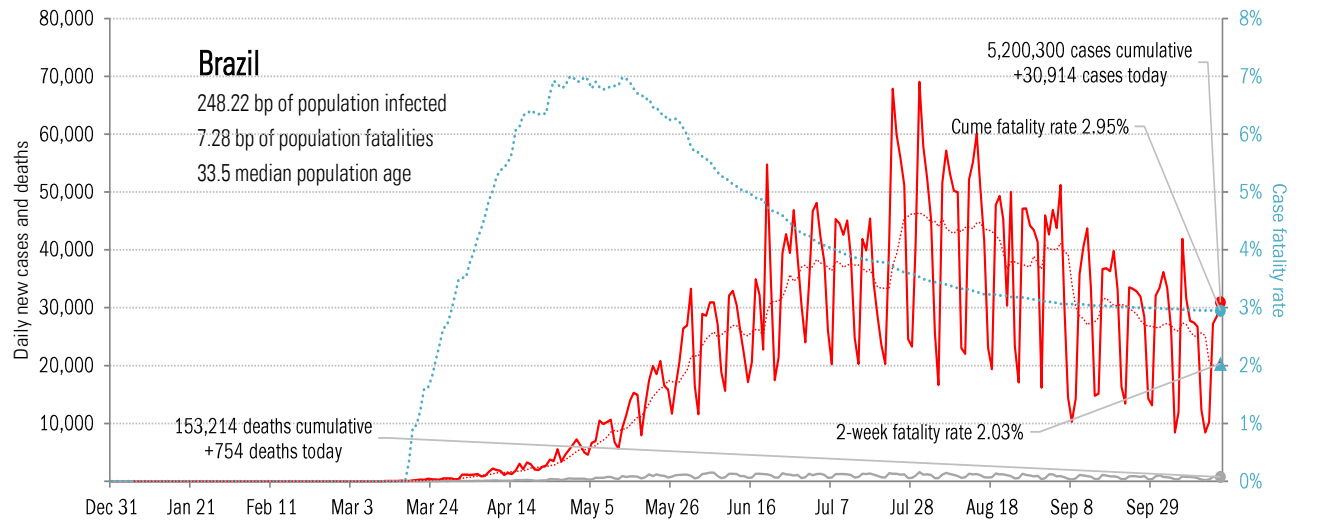
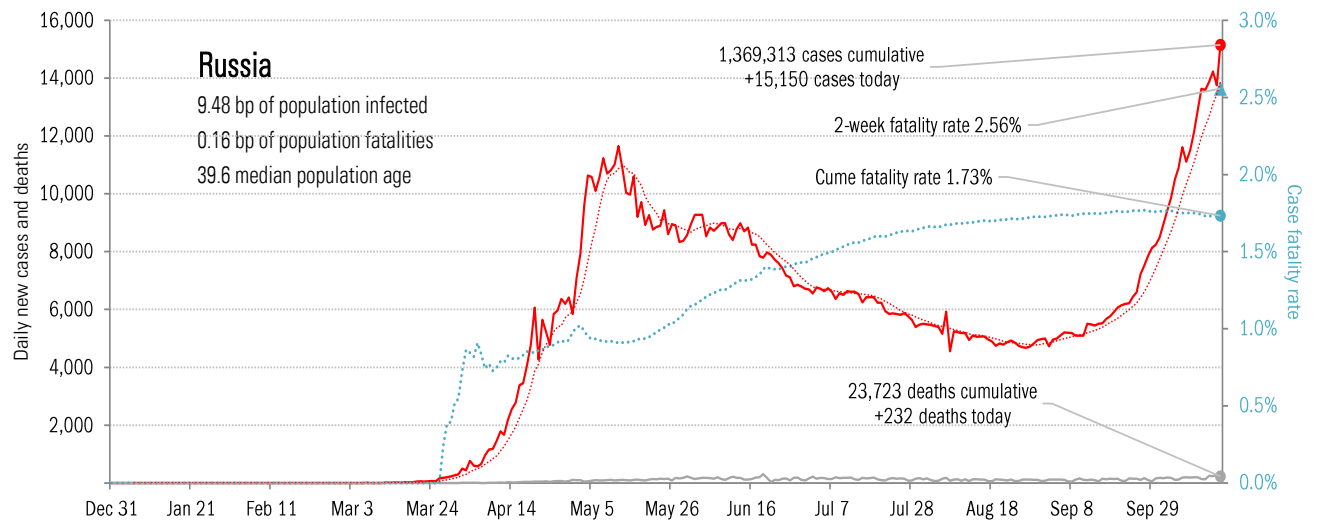
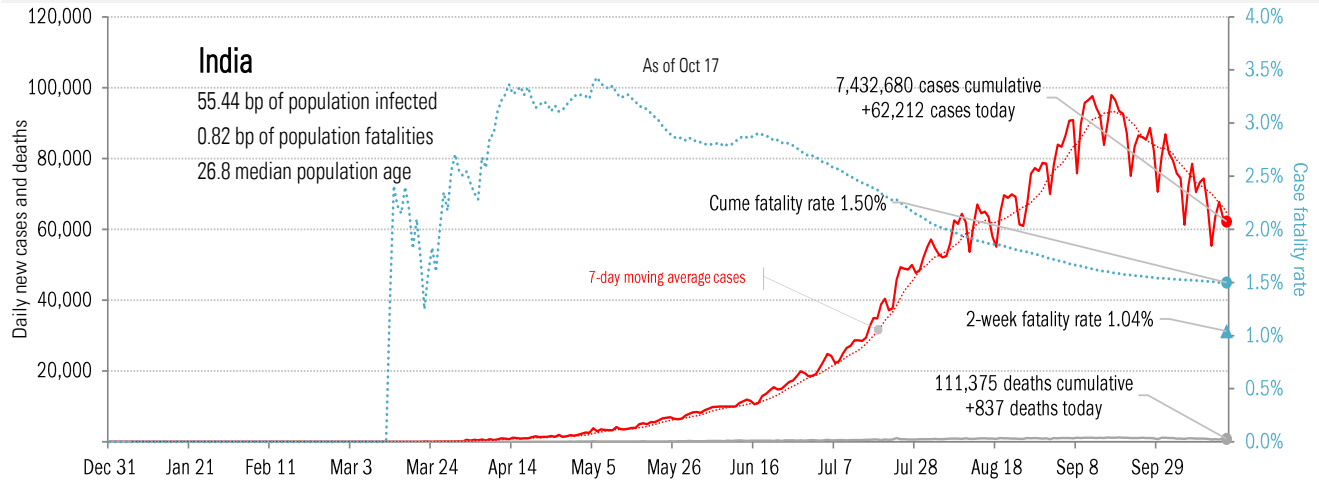
# Impact in other hot-spots



Source: [ECDC](#), TrendMacro calculations

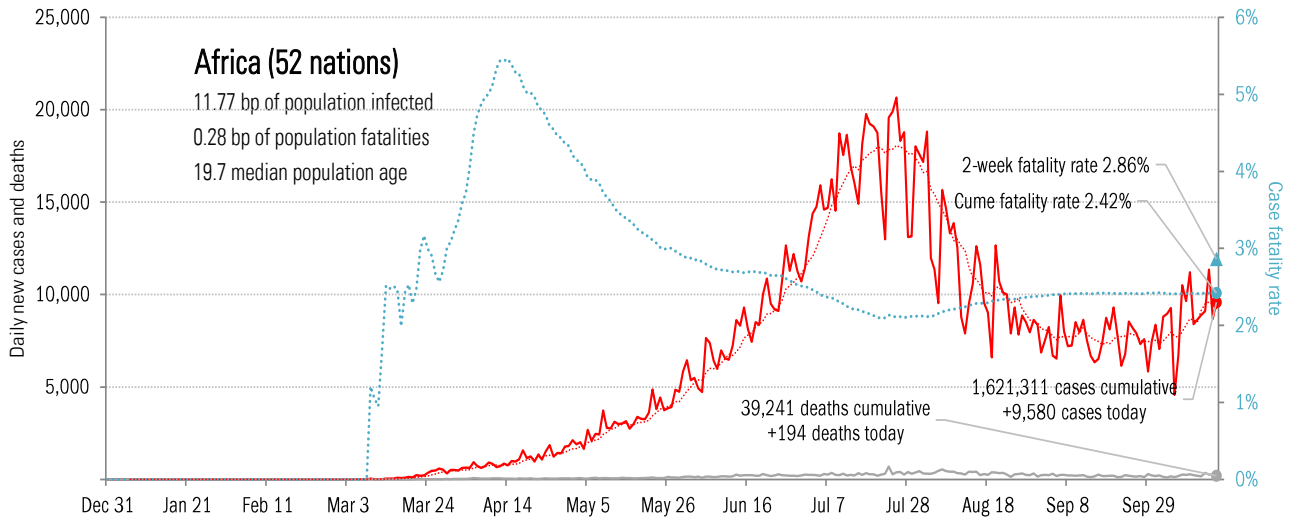
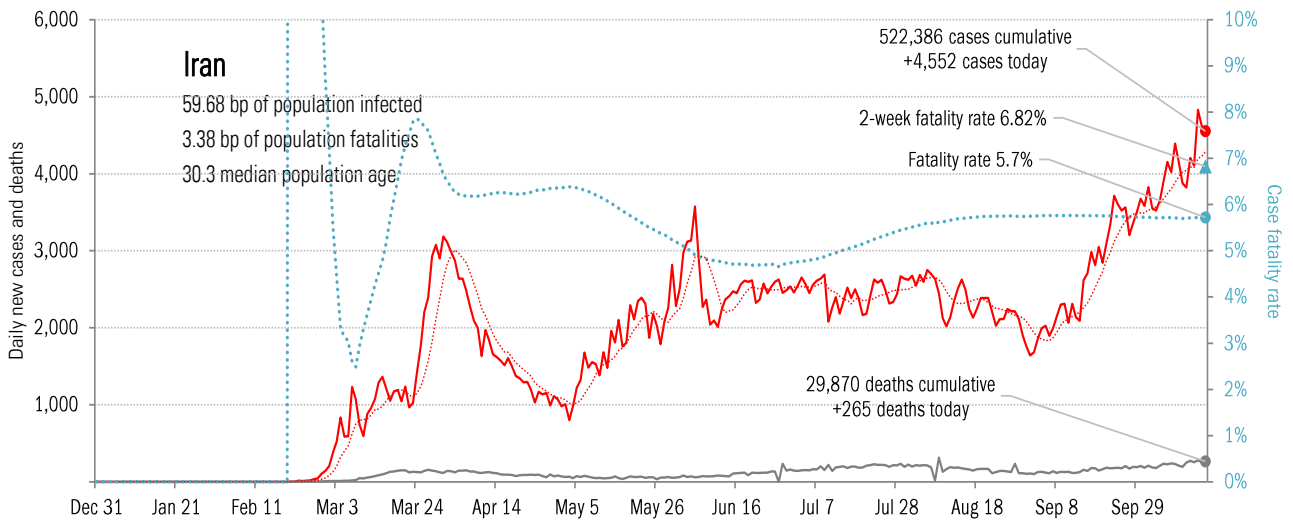
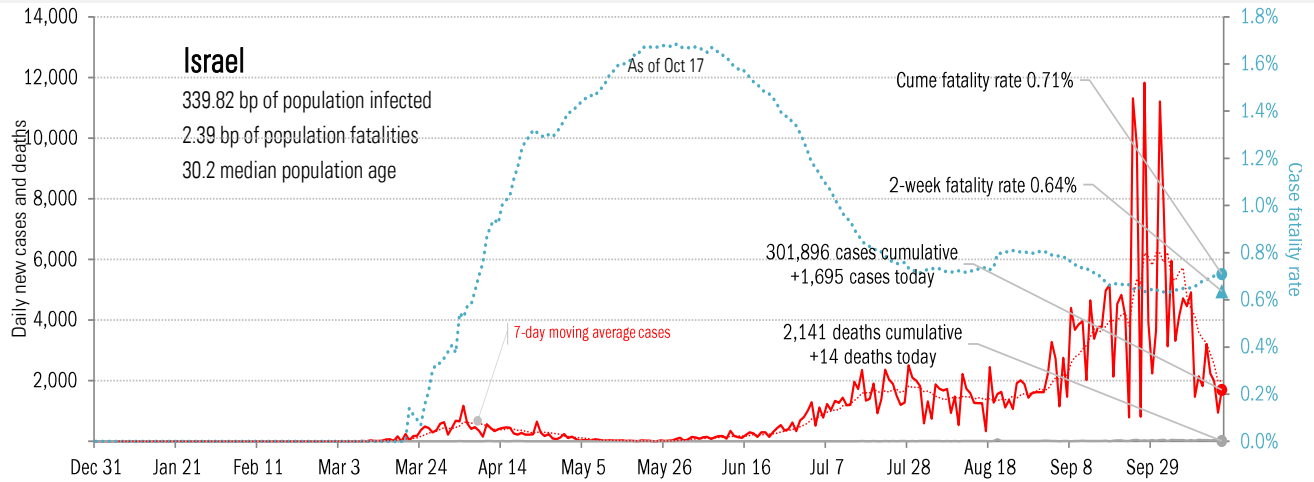


# Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

# Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations