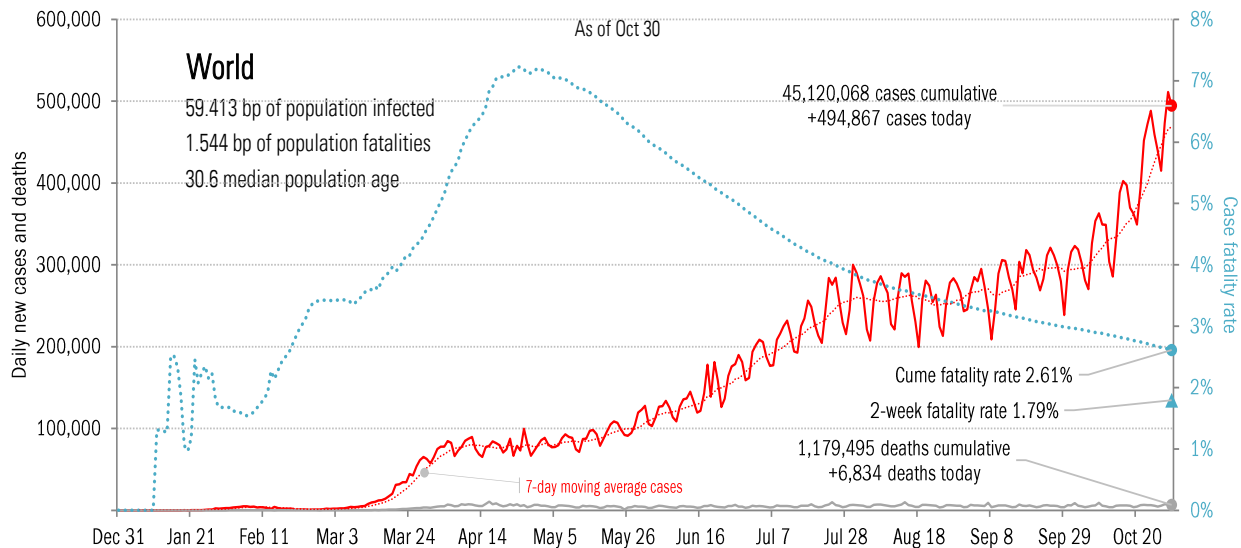
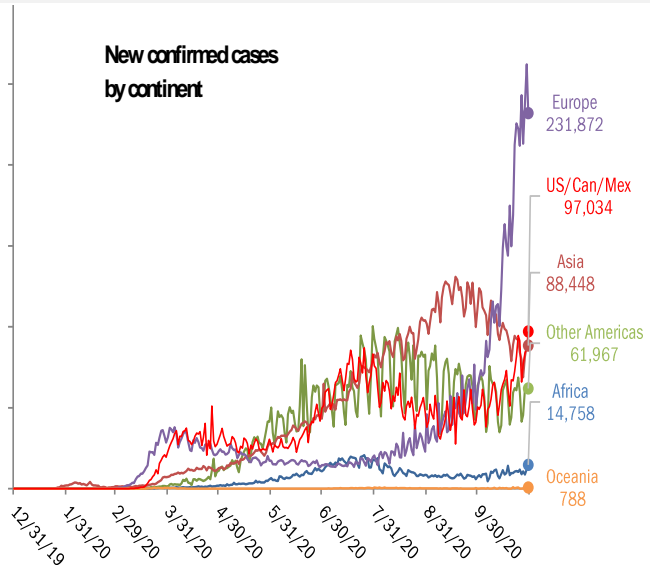


## Data Insights: Covid-2019 Monitor

Friday, October 30, 2020

### The global scorecard

The worst ten countries			
New cases		New Deaths	
US	+88,130	US	+968
India	+48,648	India	+563
France	+47,637	Brazil	+513
Italy	+26,829	Mexico	+464
Brazil	+26,106	Iran	+399
South_Sudan	+23,580	Argentina	+371
UK	+23,065	Russia	+366
Poland	+20,156	Poland	+298
Germany	+18,681	UK	+280
Russia	+17,717	France	+235
<b>+340,549</b>		<b>+4,457</b>	
World	+494,867	World	+6,834
Top ten	69%	Top ten	65%



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

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# The US scorecard

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

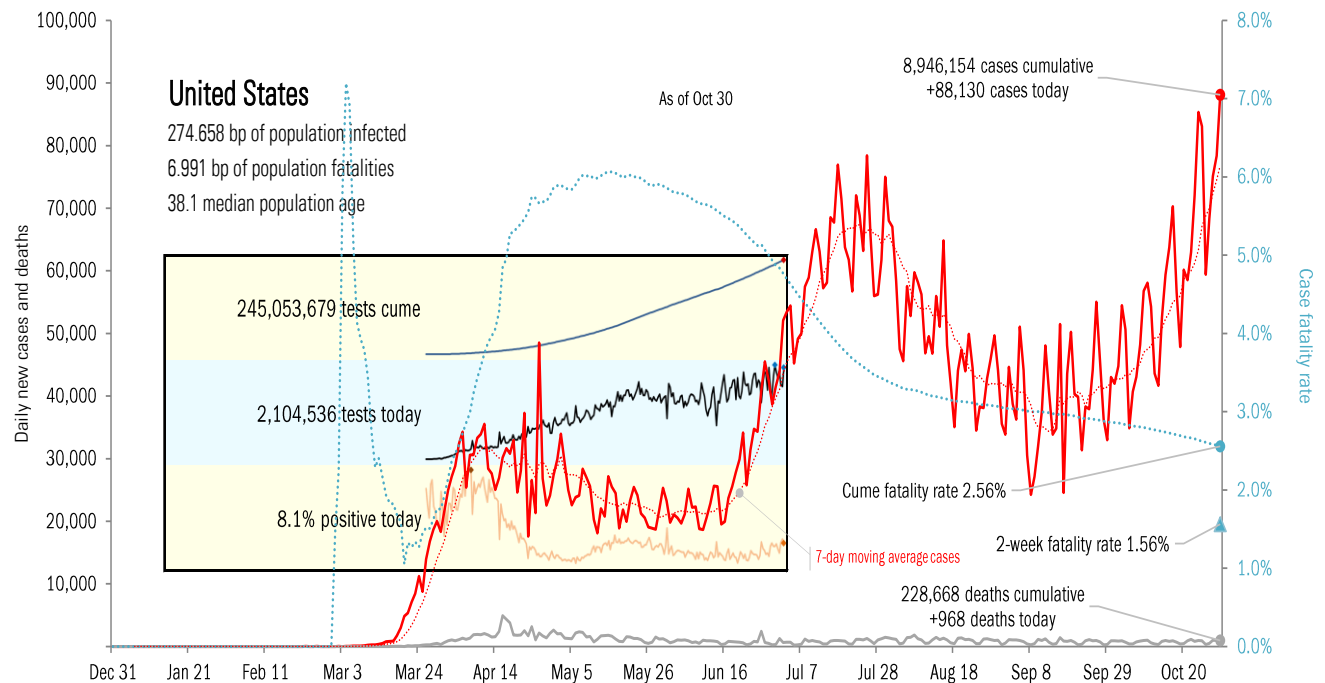
## The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
TX	+6,826	TX	+119	MN	+187	CA	912,904	NY	25,792	NY	89,995
IL	+6,363	FL	+79	IL	+169	TX	886,820	TX	17,819	FL	49,580
WI	+5,146	CA	+66	TN	+145	FL	784,331	CA	17,541	NJ	37,549
CA	+4,191	WI	+60	CA	+85	NY	503,176	FL	16,854	GA	31,516
FL	+4,111	IL	+56	CO	+73	IL	400,171	NJ	16,332	AZ	21,260
MI	+4,109	GA	+47	NJ	+62	GA	356,848	MA	9,951	VA	20,914
IN	+3,618	MI	+47	IN	+54	NC	269,021	IL	9,945	AL	20,246
CH	+3,590	PA	+44	NE	+47	TN	256,880	PA	8,762	CH	18,800
MO	+3,061	NC	+38	MO	+44	AZ	242,480	GA	7,923	MD	16,971
NC	+2,885	IN	+33	KY	+42	NJ	234,547	MI	7,653	IN	16,469
<b>+43,900</b>		<b>+589</b>		<b>+908</b>		<b>4,847,178</b>		<b>138,572</b>		<b>323,300</b>	
All states	+88,452	All states	+1,049	All states	+1,050	All states	8,880,551	All states	220,423	All states	470,579
Top ten	50%	Top ten	56%	Top ten	86%	Top ten	55%	Top ten	63%	Top ten	69%

*Some states not reporting*

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
KS	-3,369	KS	-31	TX	-201	AL	+7
LA	-704	SC	-21	CH	-80	UT	+5
CA	-324	AL	-16	SC	-74	AR	+4
SD	-270	TN	-12	KS	-70	AK	+0
R	-131	MS	-11	FR	-48	AS	+0



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

## Recommended reading

### [Article on Joe and Hunter Biden Censored By The Intercept](#)

Glenn Greenwald  
*Substack*  
October 29, 2020

### [My Resignation From The Intercept](#)

Glenn Greenwald  
*Substack*  
October 29, 2020

### [The Effects of Pandemic-Related Legislation on Output](#)

*Congressional Budget Office*  
September 18, 2020

### [Dishonest Politics and Coronavirus Relief](#)

Veronique de Rugy  
*Reason*  
October 29, 2020

### [These 12 Graphs Show Mask Mandates Do Nothing To Stop COVID](#)

Yinon Weiss  
*The Federalist*  
October 29, 2020

### [IHSA defies Gov. Pritzker, says basketball season can start on schedule](#)

Michael O'Brien  
*Chicago Sun Times*  
October 28, 2020

### [A Flu Shot Might Reduce Coronavirus Infections, Early Research Suggests](#)

Melinda Wenner Moyer  
*Scientific American*  
October 27, 2020

### [Regeneron's Covid-19 outpatient trial prospectively demonstrates that REGN-COV2 antibody cocktail significantly reduced virus levels and need for further medical attention](#)

*Regneron*  
October 28, 2020

### [The next pandemic: where is it coming from and how do we stop it?](#)

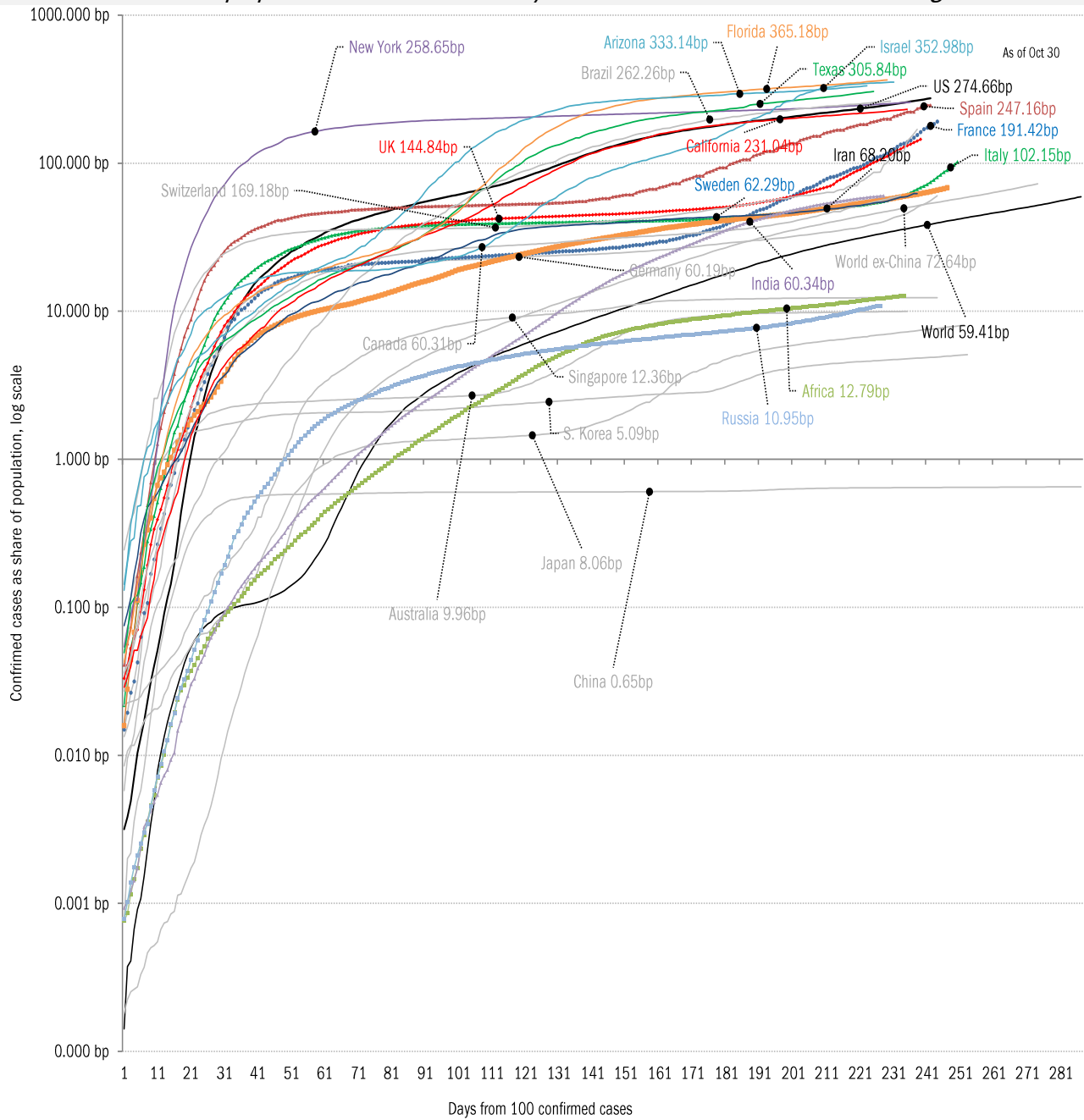
Leslie Hook  
*Financial Times*  
October 29, 2020

## Meme of day



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

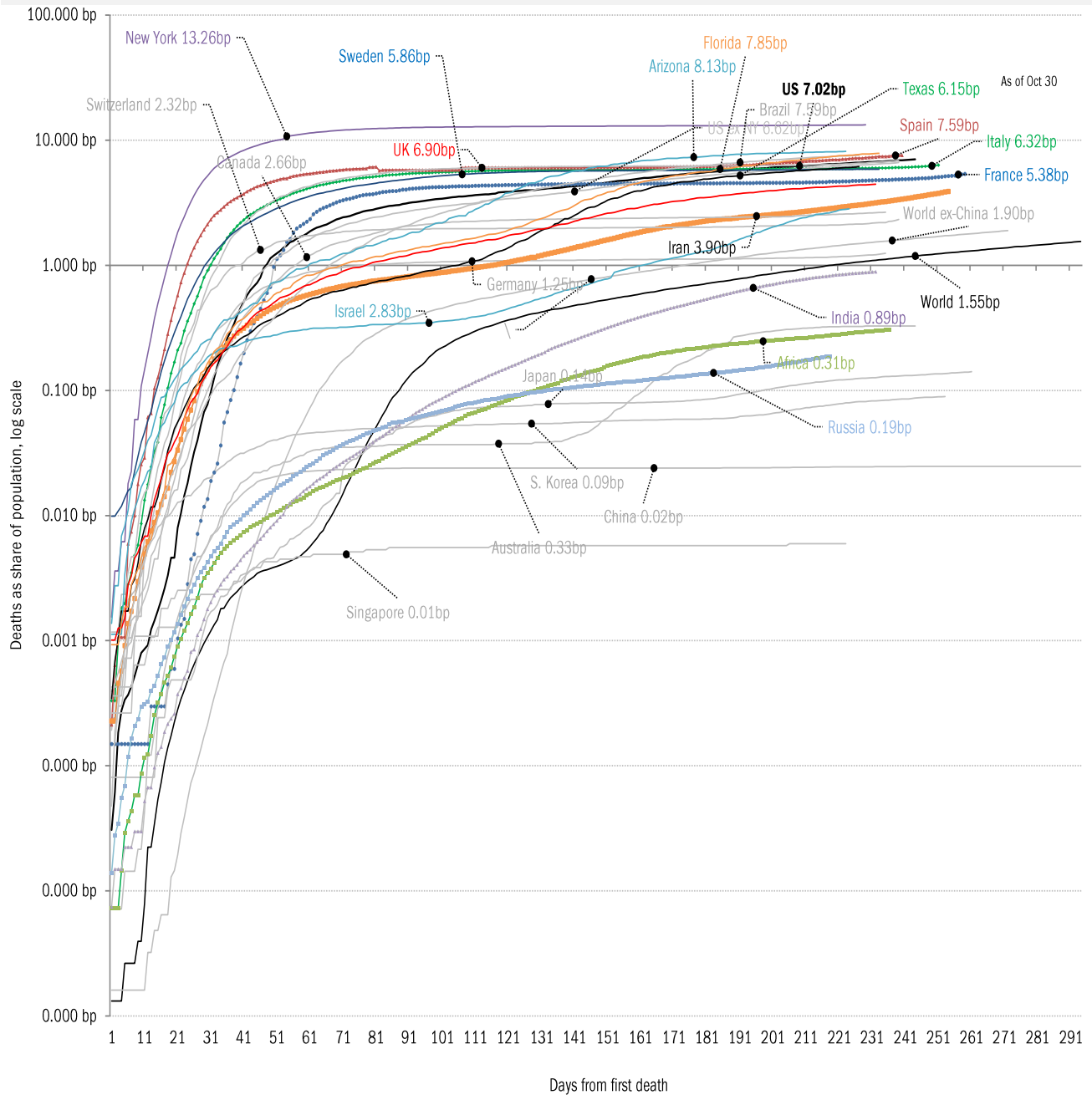
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



Source: [ECDC](#), TrendMacro calculations

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

## Share of deceased population from day of first fatality

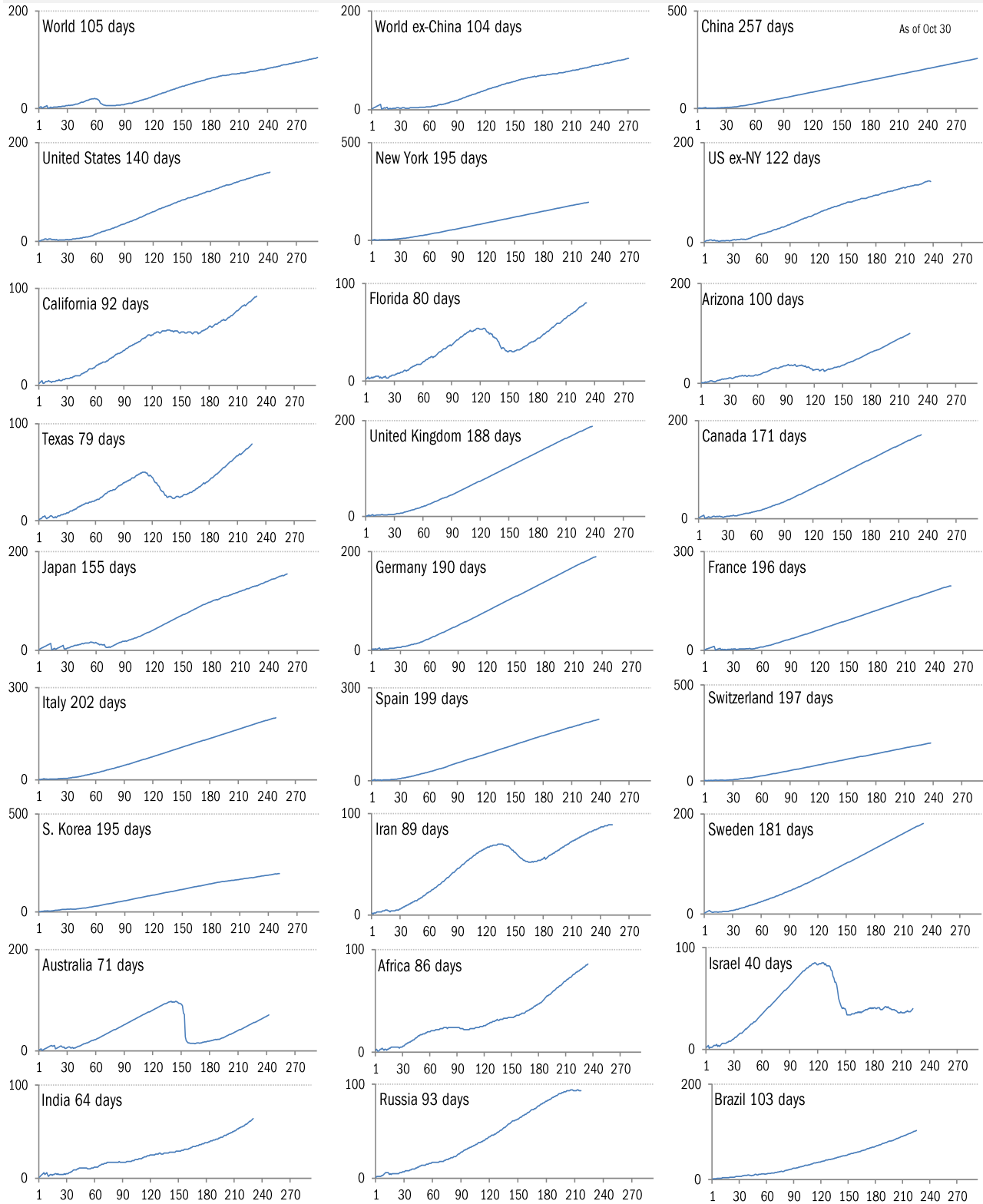


Source: [ECDC](#), TrendMacro calculations

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

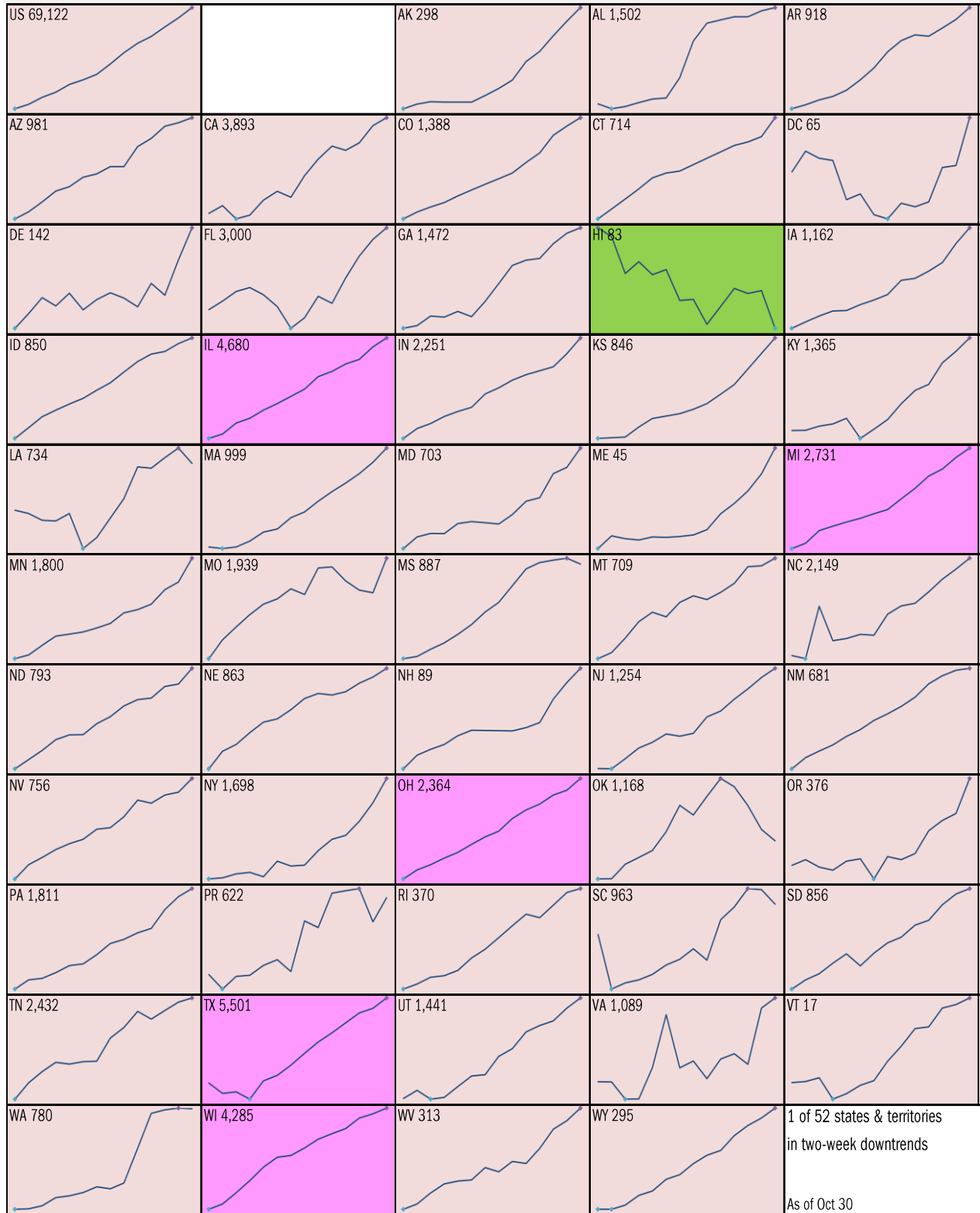
Vertical: days to double deaths Horizontal: days from first death

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

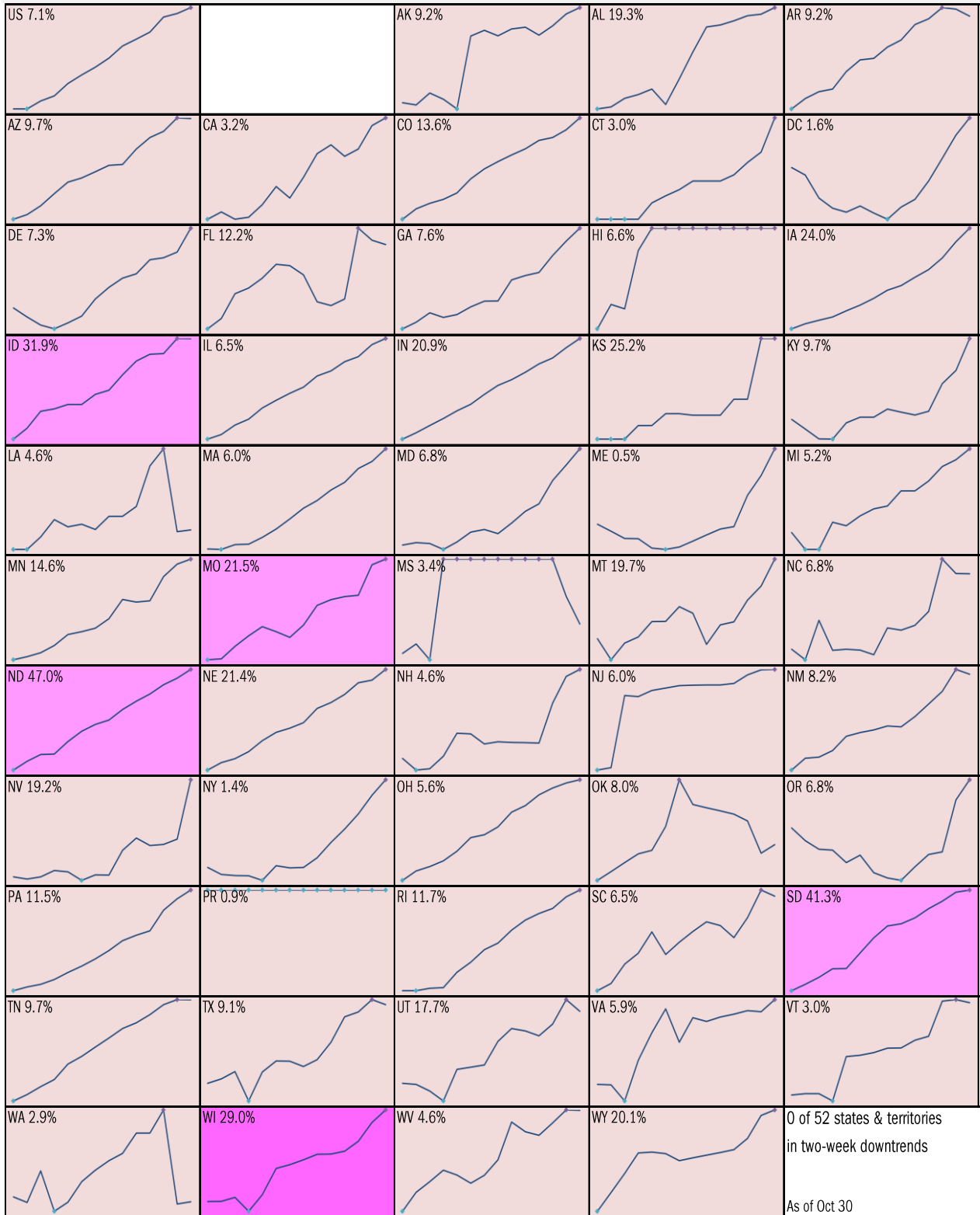


Source: [Covid Tracking Project](#), TrendMacro calculations

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

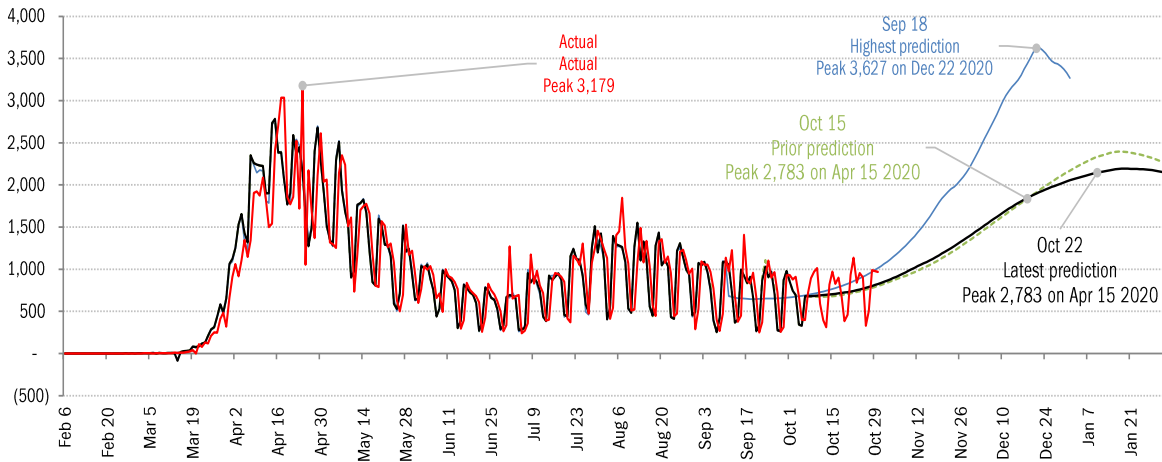


# Reality-checking the models: actuals versus [IHME](#) predictions

## New daily fatalities

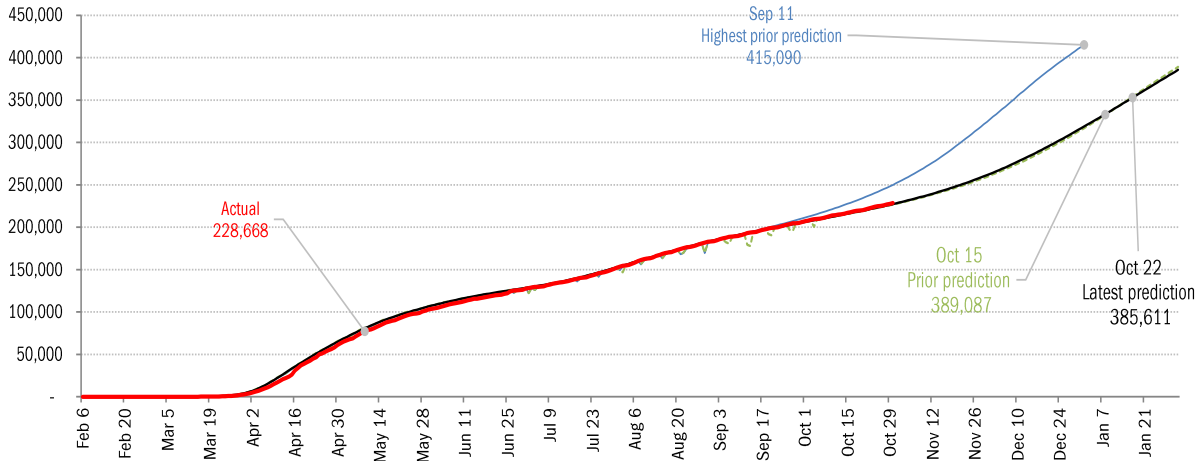
As of Oct 30

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

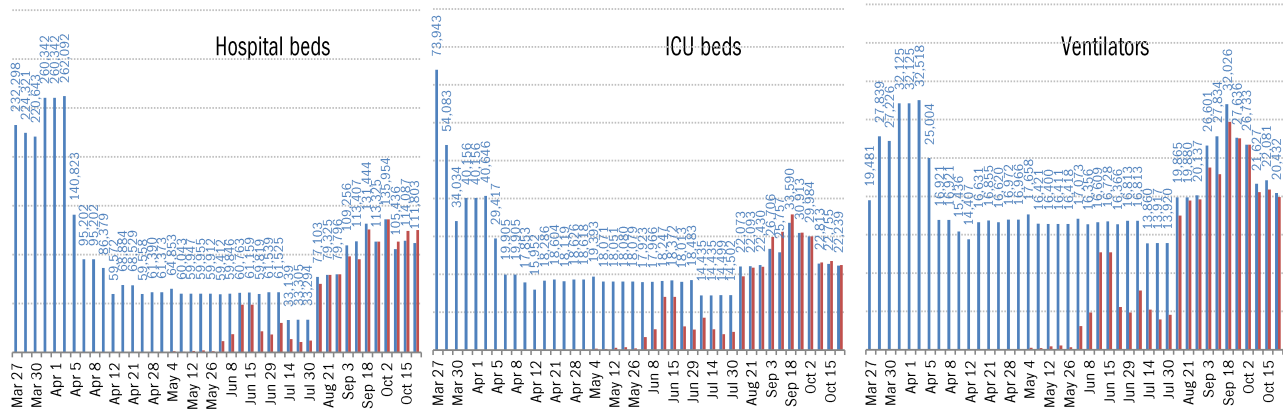


## Cumulative fatalities

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

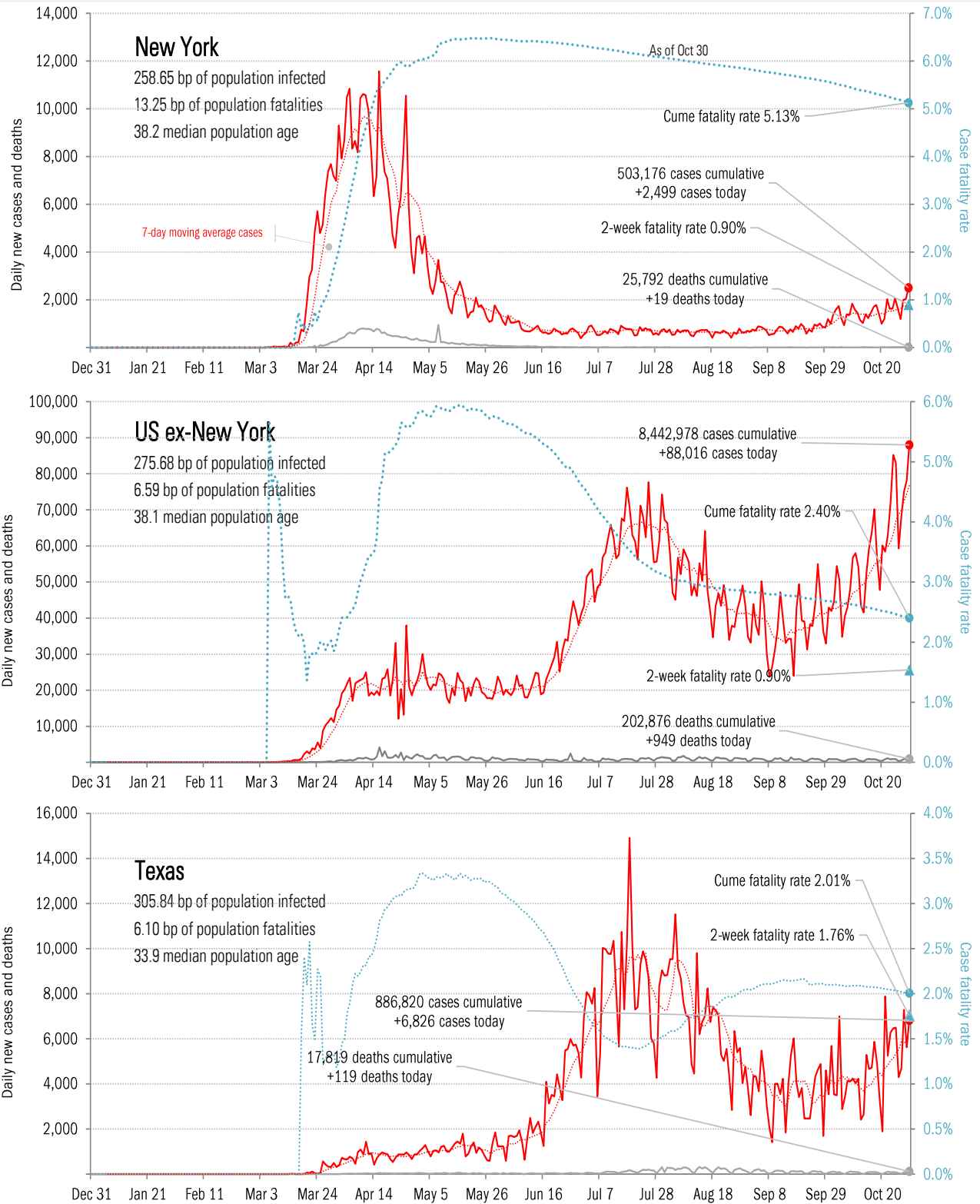


## Healthcare system stress, **peak** and **ultimate** estimated at each model revision



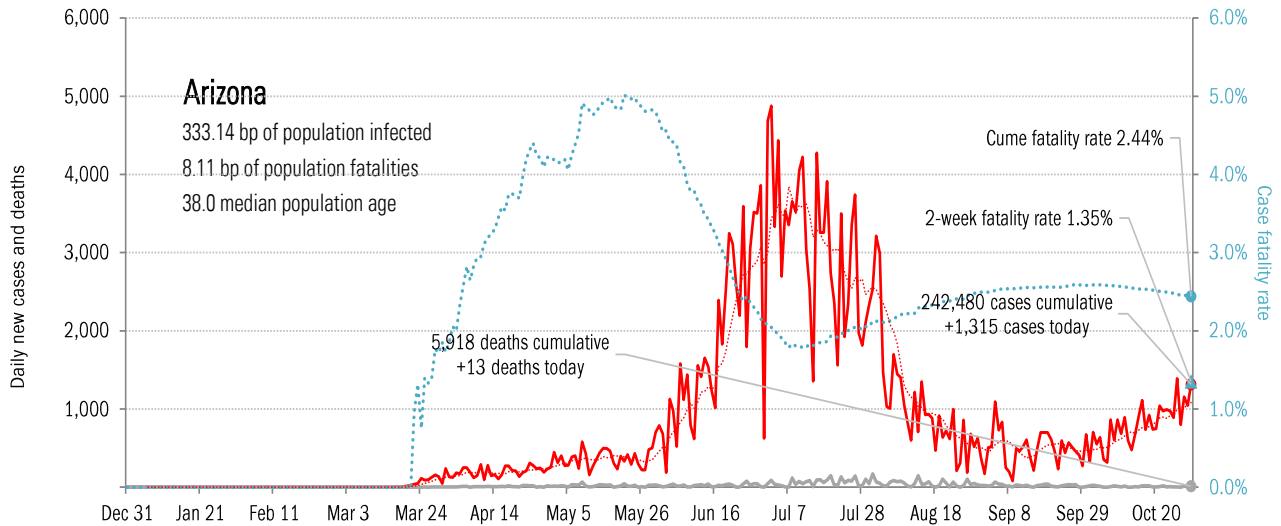
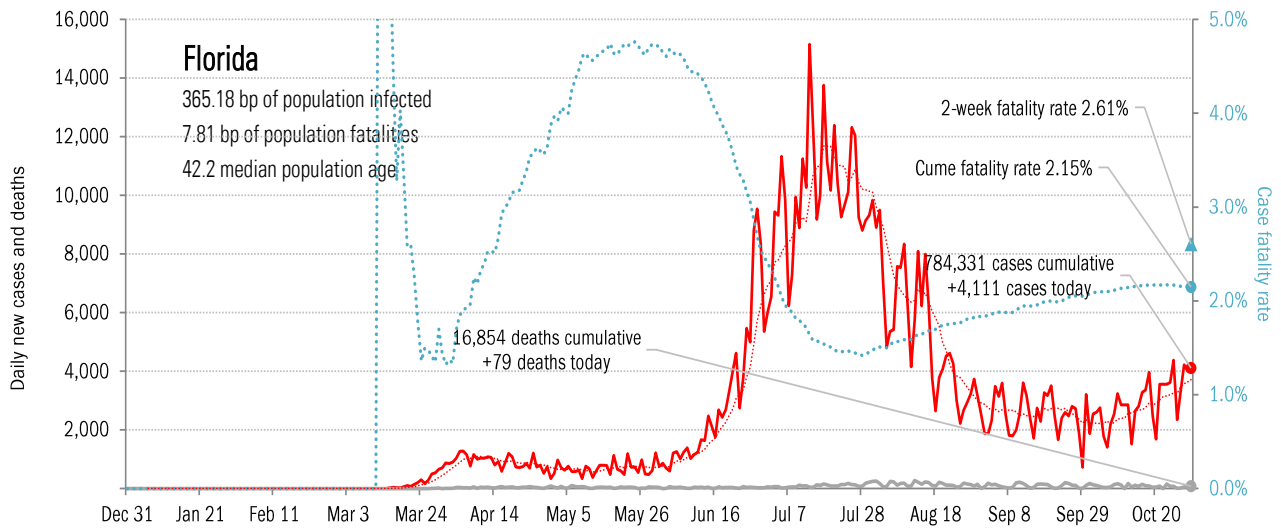
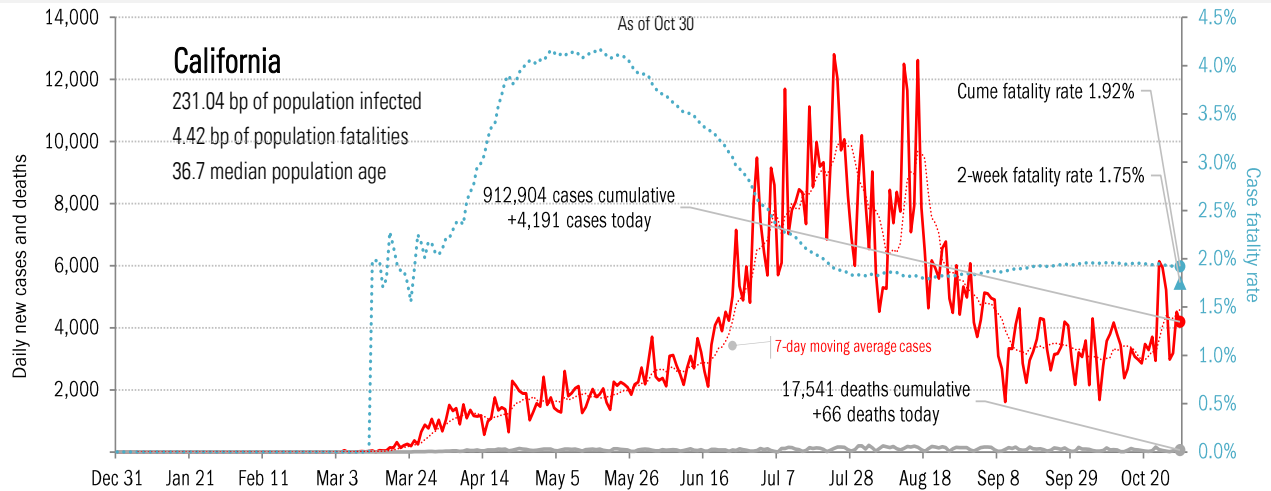
Source: [ECDC](#), [IHME](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



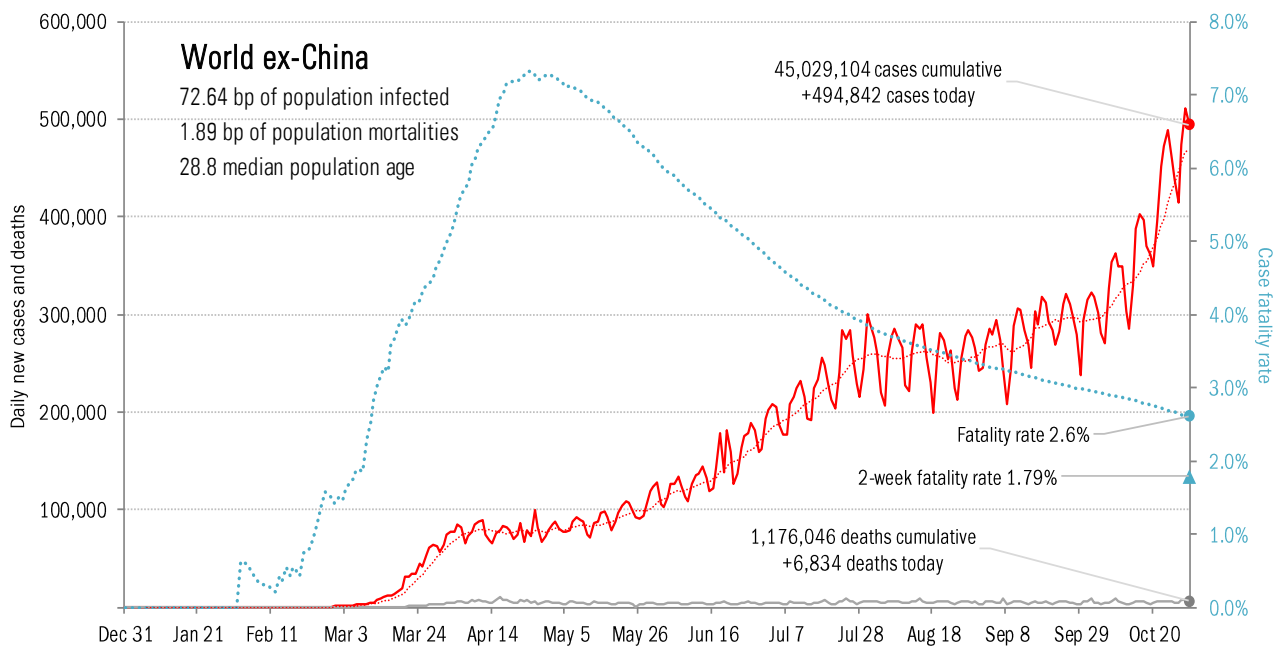
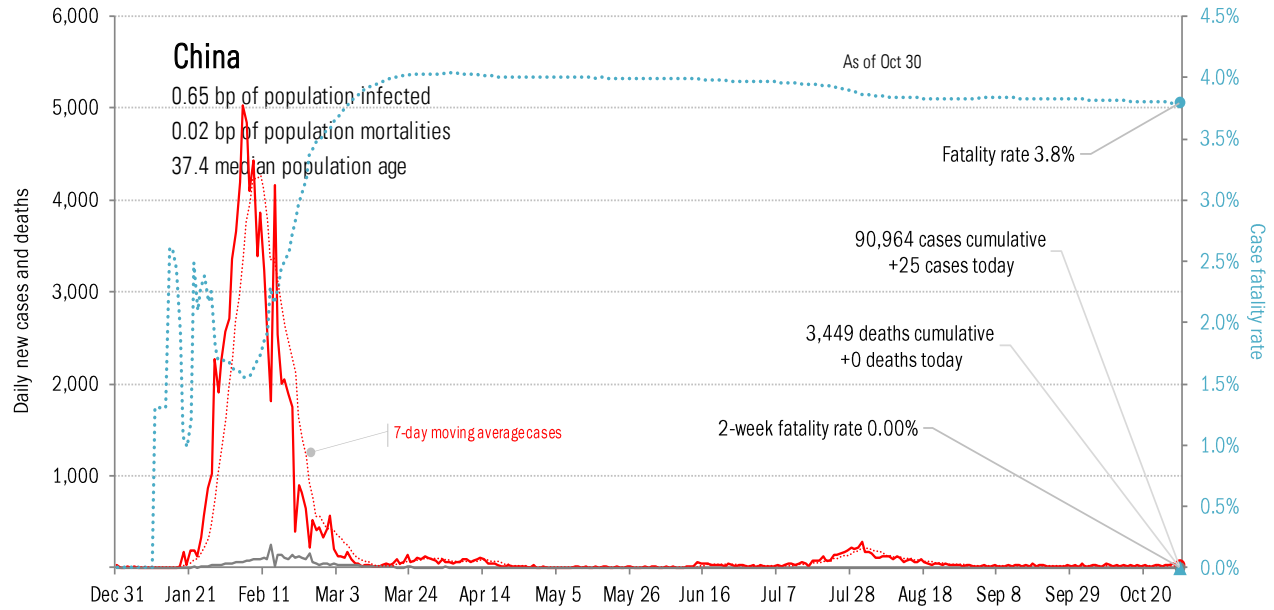
Source: [ECDC](#), TrendMacro calculations

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



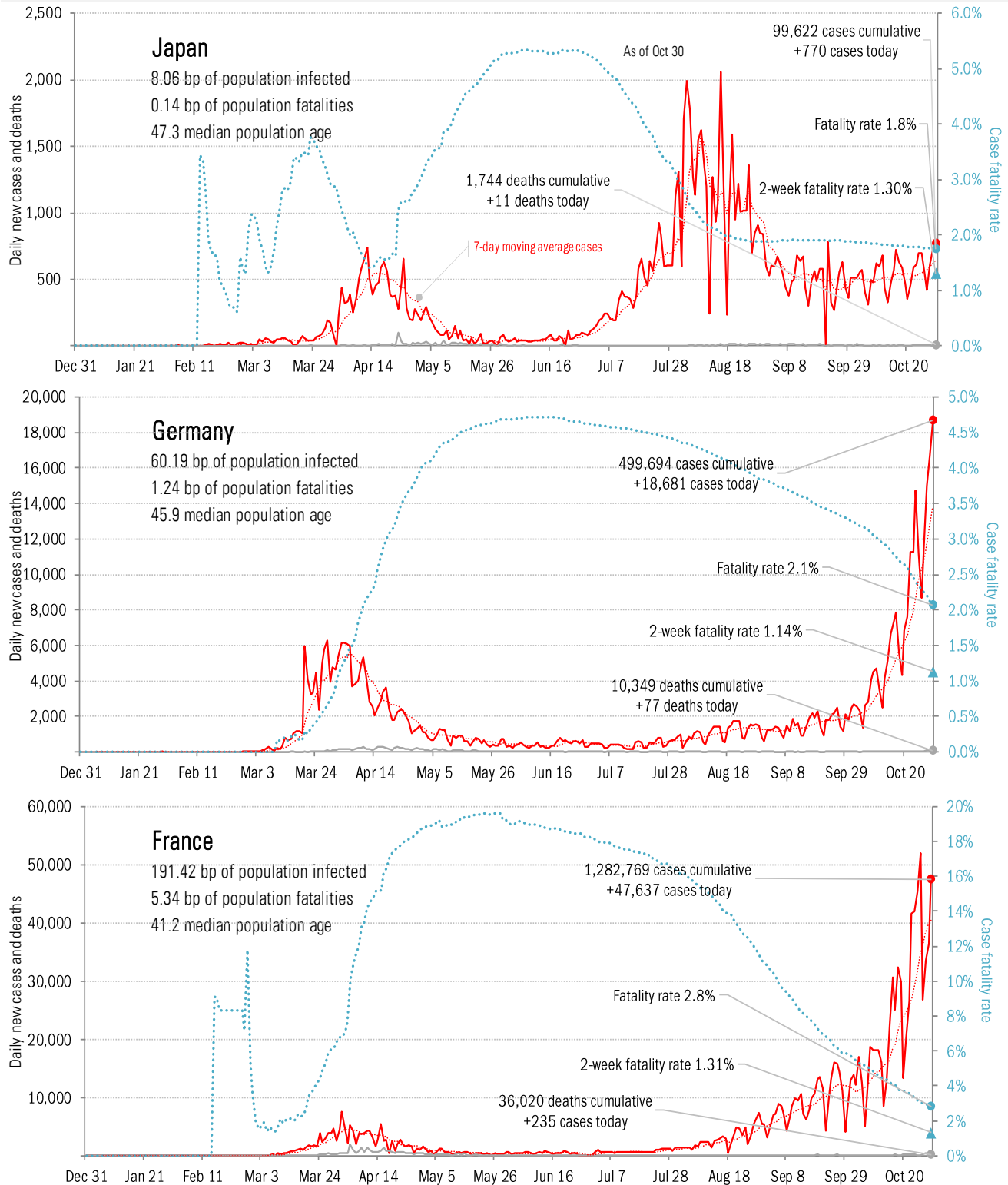
Source: [ECDC](#), TrendMacro calculations

# Patient zero... and then everyone else



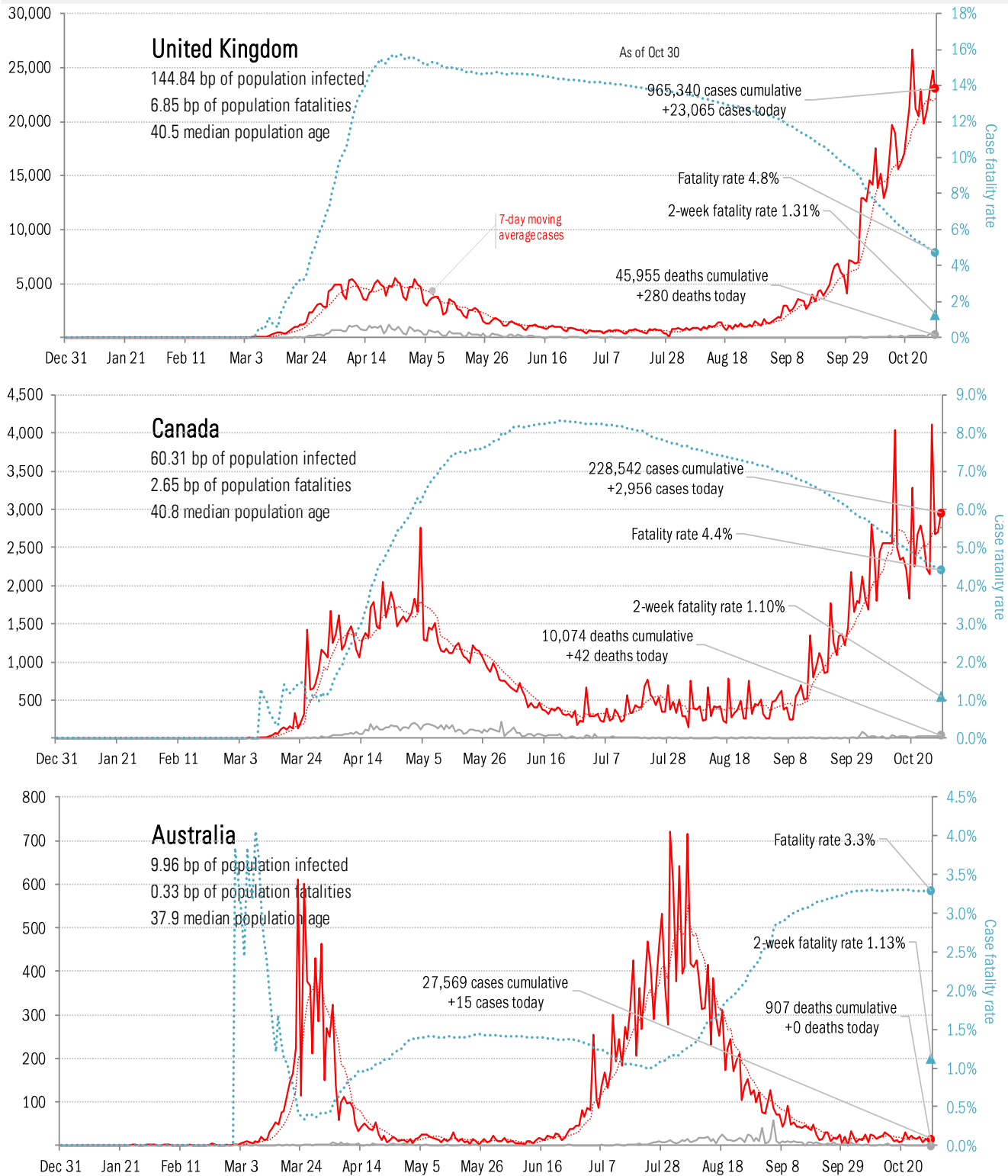
Source: [ECDC](#), TrendMacro calculations

# Impact in the largest economies



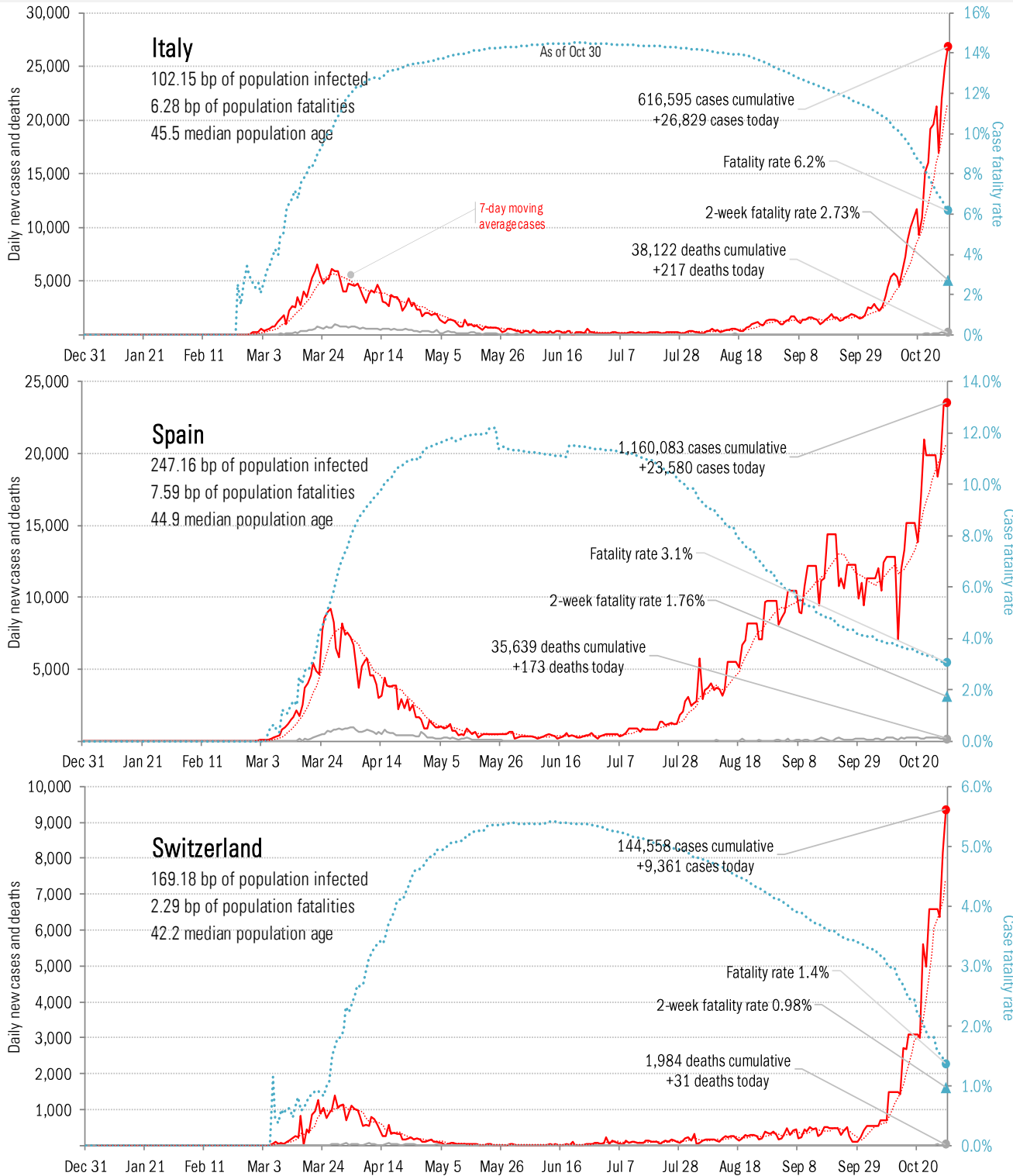
Source: [ECDC](#), TrendMacro calculations

# Impact in The Anglosphere



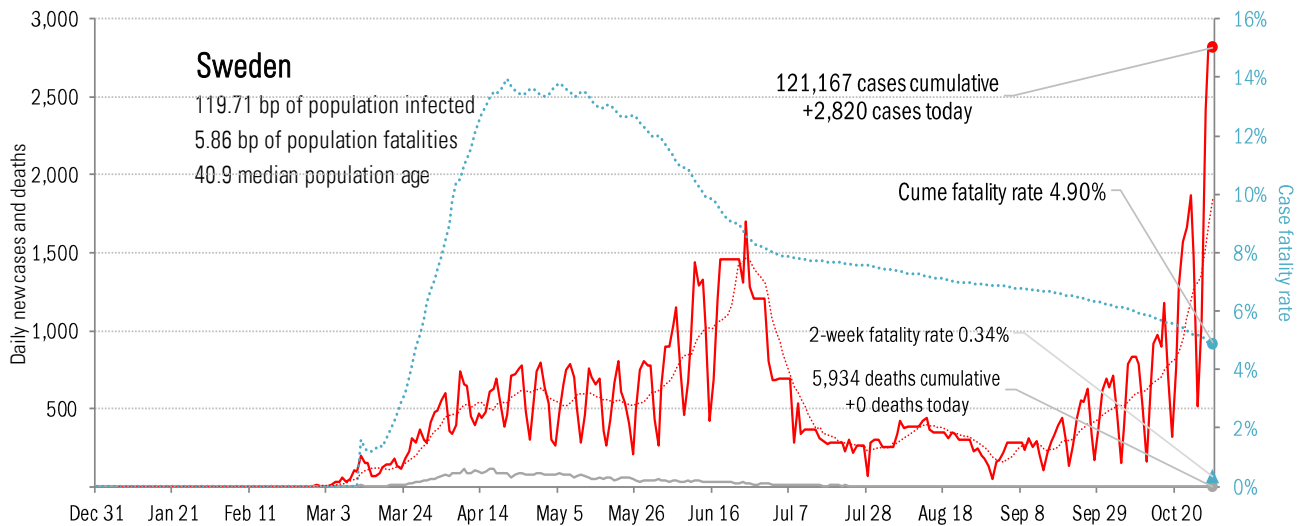
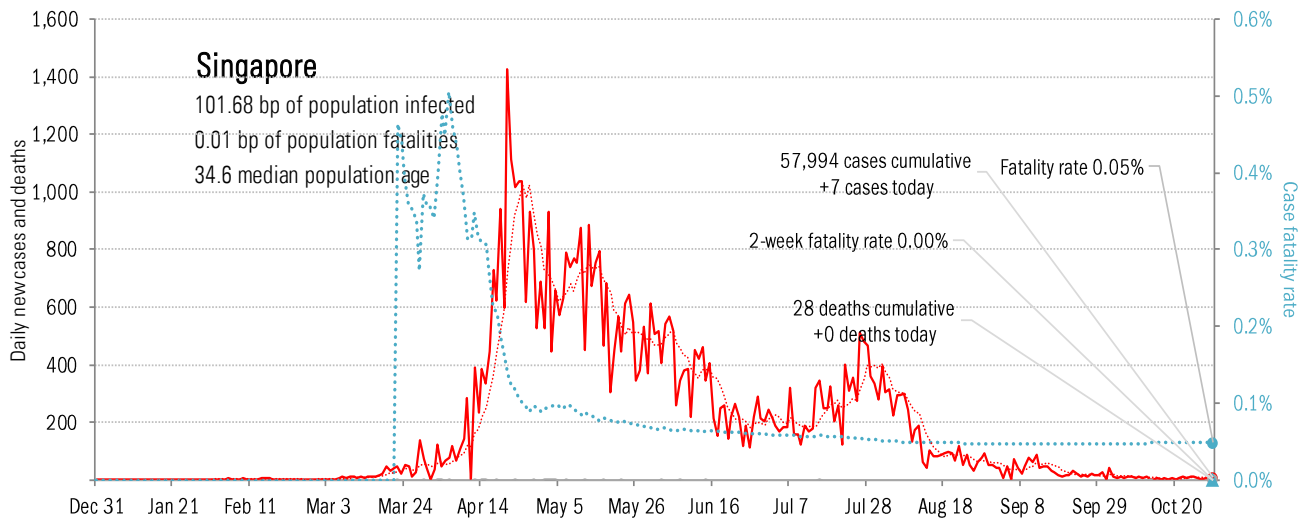
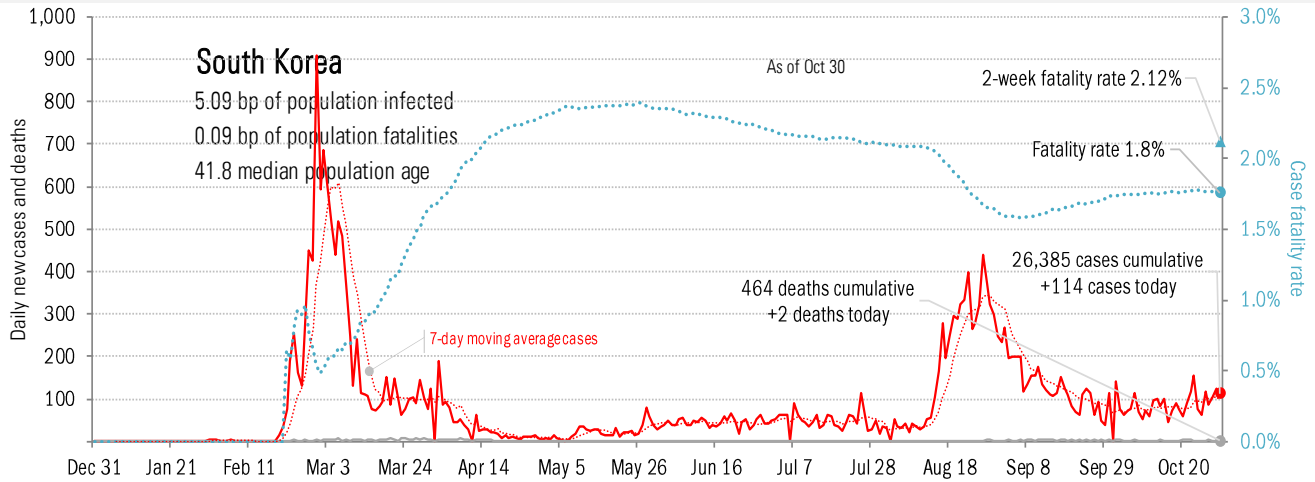
Source: [ECDC](#), TrendMacro calculations

# Impact in continental Europe



Source: [ECDC](#), TrendMacro calculations

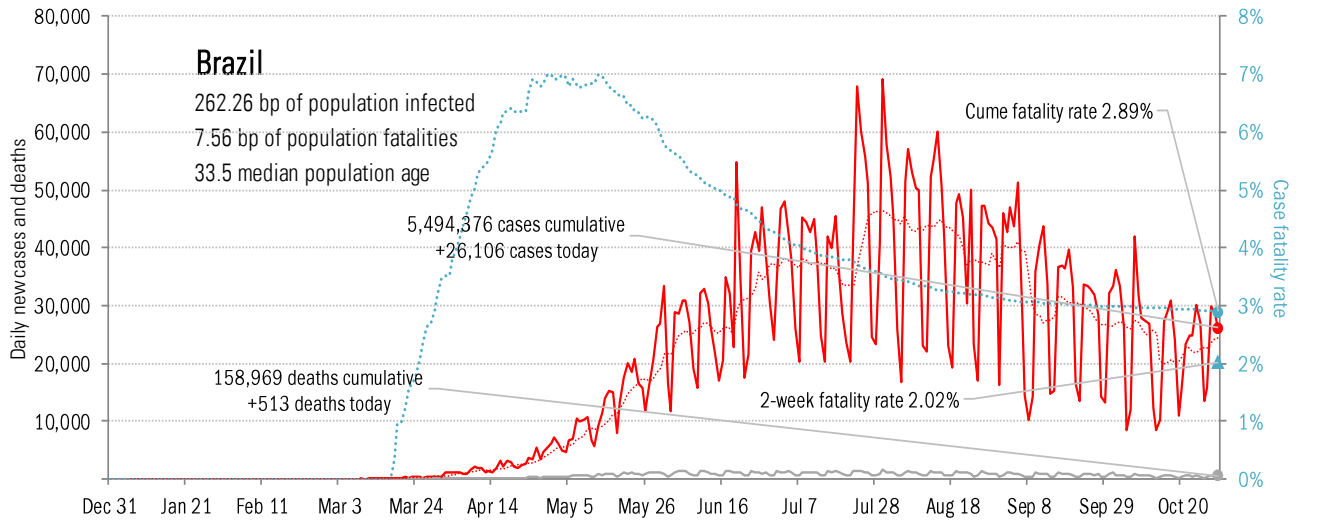
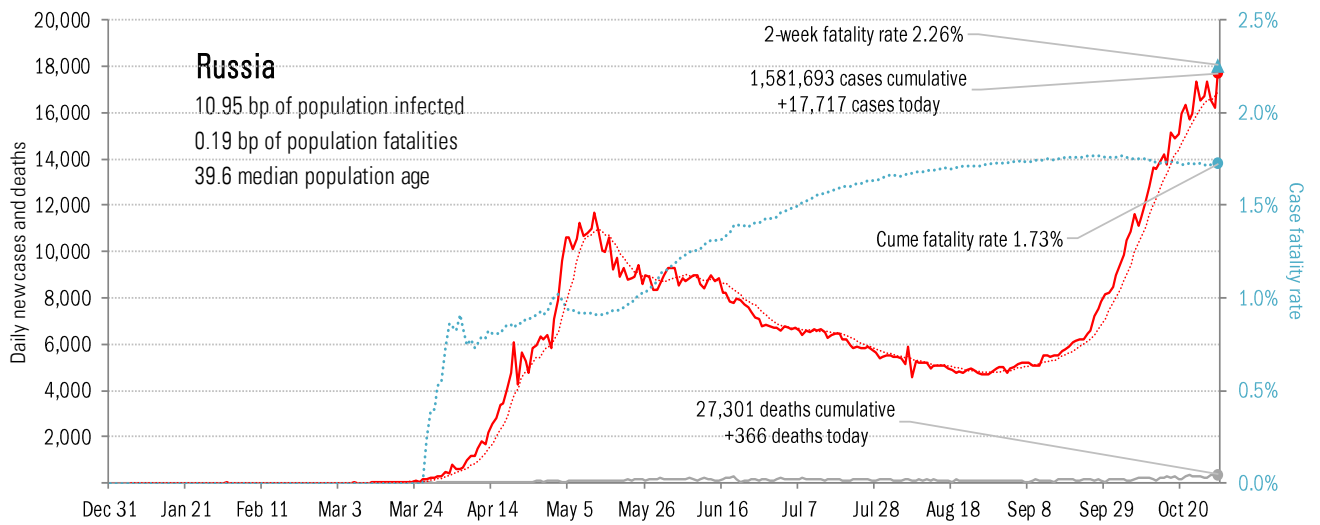
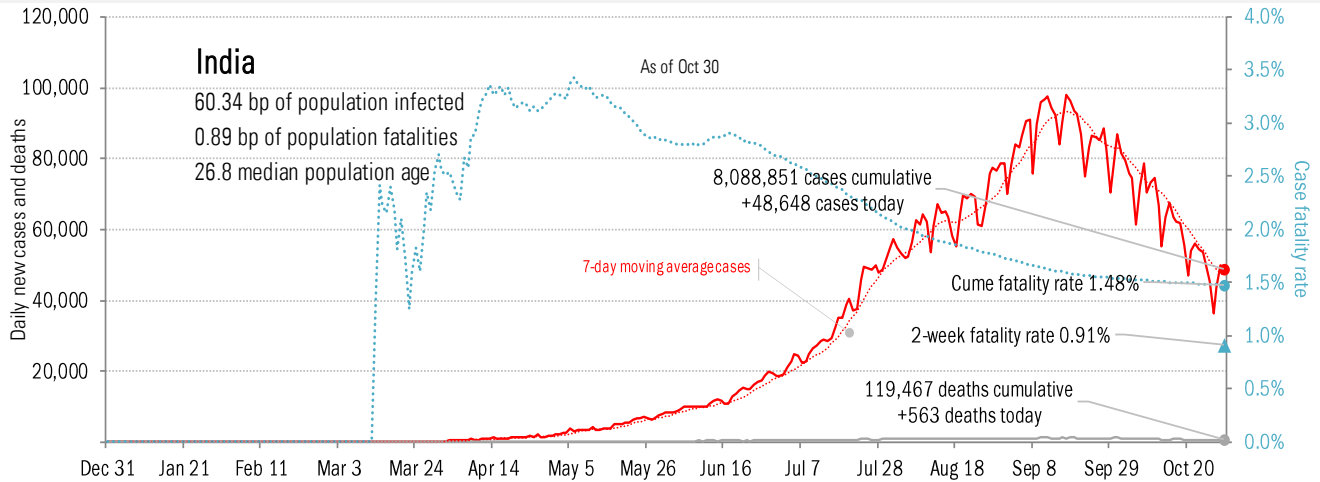
# Impact in other hot-spots



Source: [ECDC](#), TrendMacro calculations

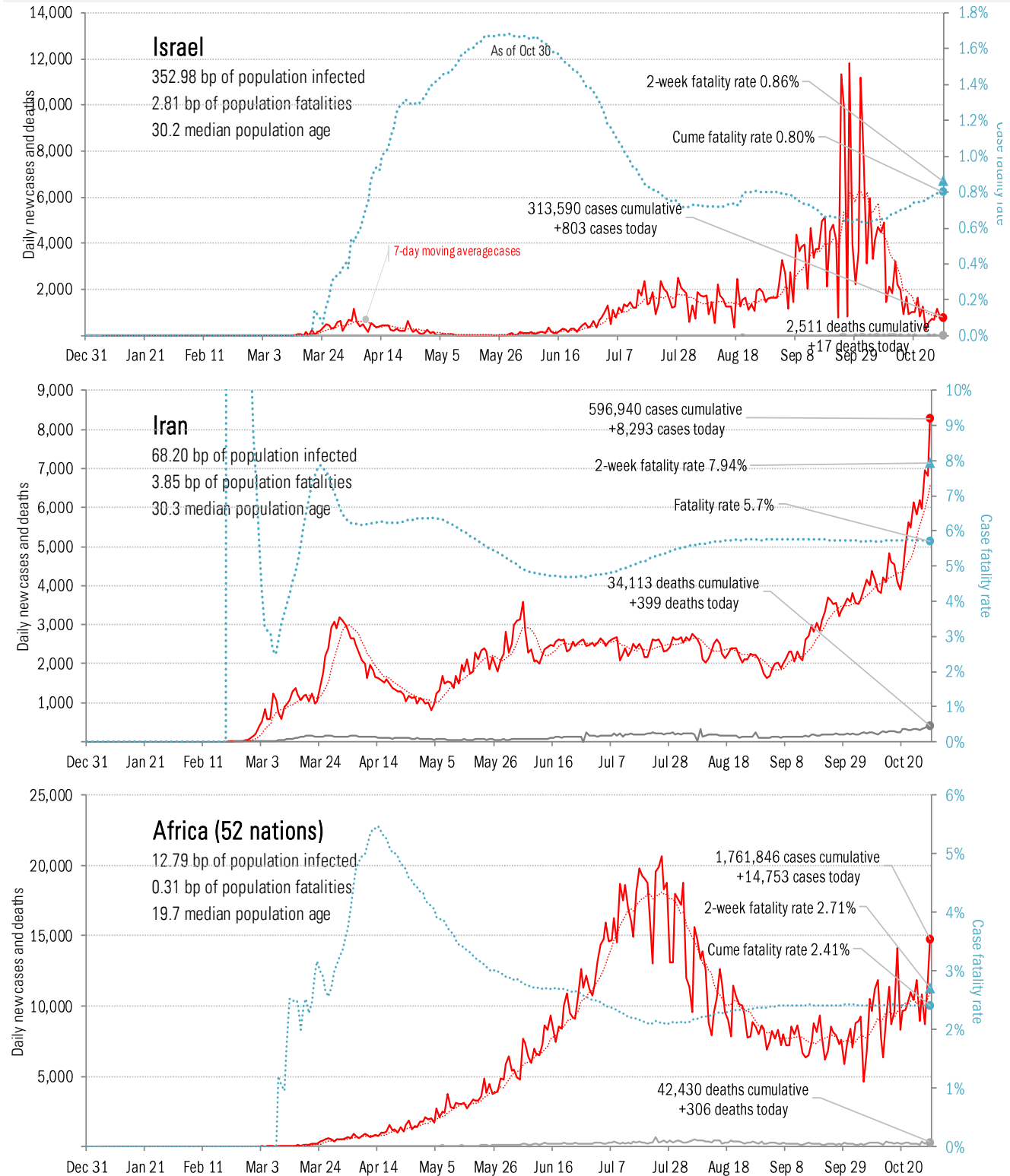


# Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

# Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations