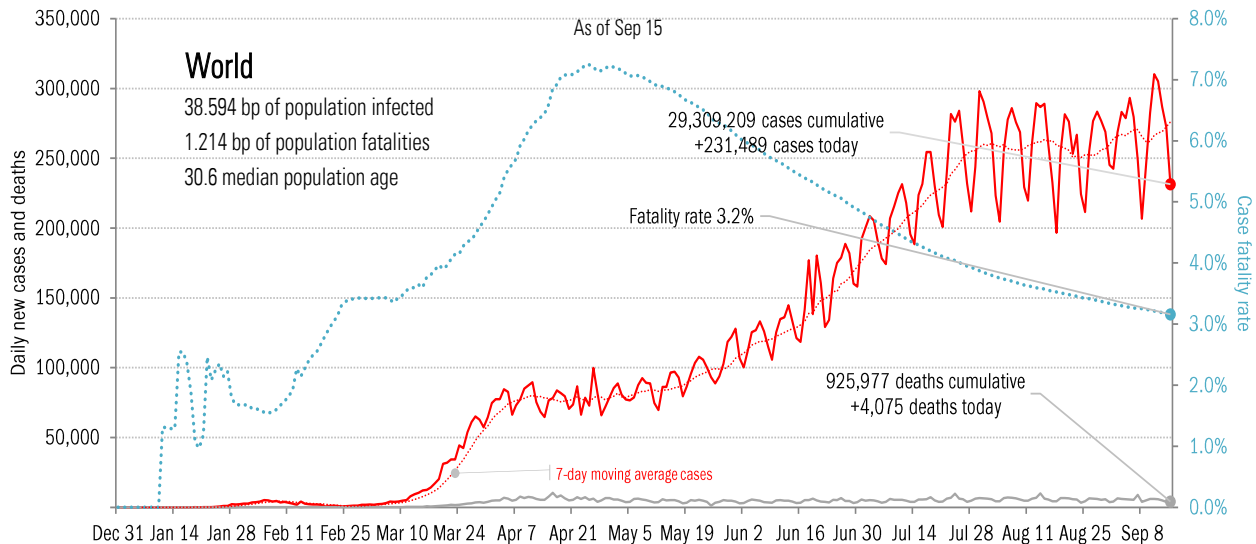
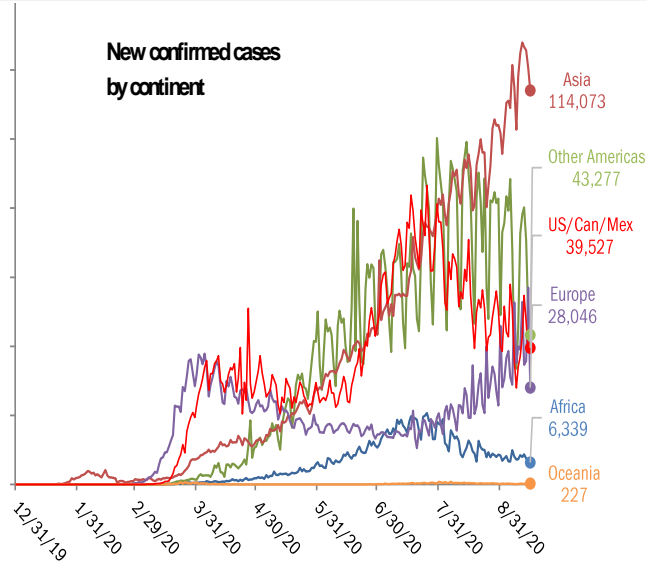


## Data Insights: Covid-2019 Monitor

Tuesday, September 15, 2020

### The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+83,809	India	+1,054
US	+34,841	US	+451
Brazil	+15,155	Brazil	+381
Argentina	+9,056	Philippines	+259
France	+6,158	Mexico	+228
Colombia	+5,573	Colombia	+199
Russia	+5,509	Iran	+156
Philippines	+4,672	Indonesia	+118
Peru	+4,241	Argentina	+105
Iraq	+4,169	Peru	+102
<b>+173,183</b>		<b>+3,053</b>	
World	+231,489	World	+4,075
Top ten	75%	Top ten	75%



Source: [ECDC](#), TrendMacro calculations

#### For more information contact us:

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

# The US scorecard

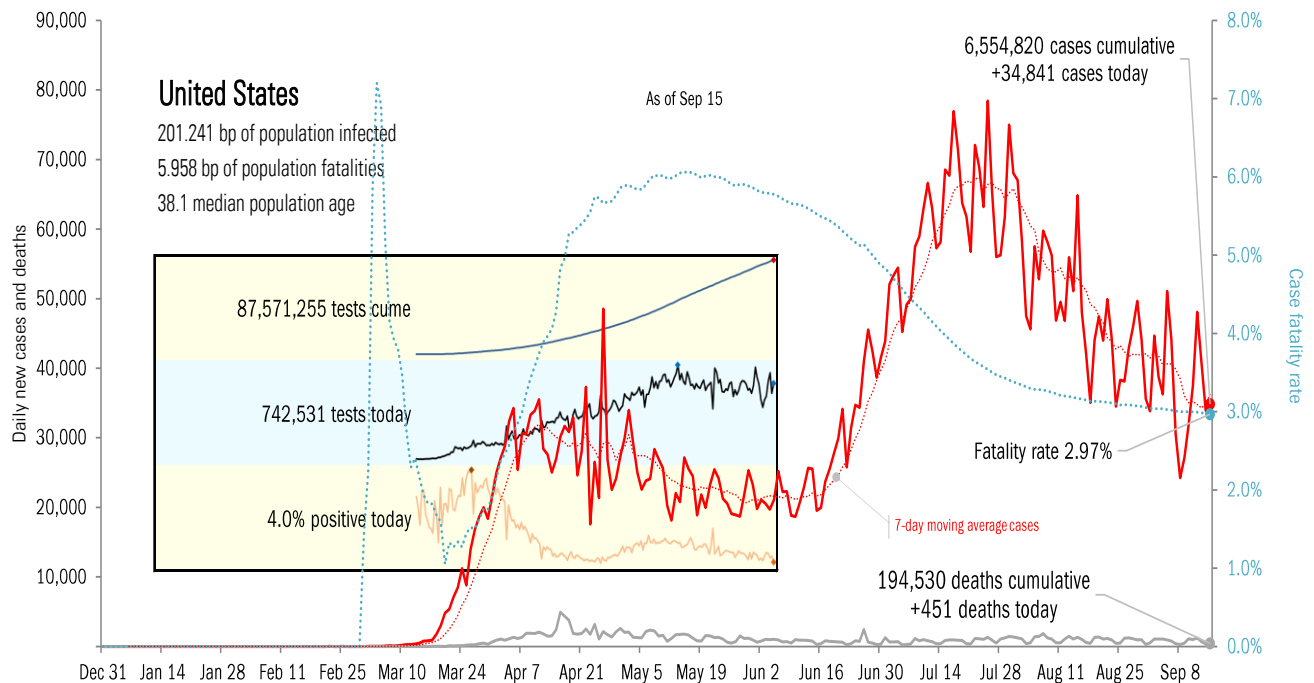
National and state-by-state data do not line up because of different sources

## The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
CA	+2,855	CA	+56	AL	+229	CA	757,778	NY	25,394	NY	89,995
TN	+2,450	FL	+36	MS	+89	FL	665,730	NJ	16,034	FL	41,846
FL	+1,736	PA	+32	FL	+77	TX	659,434	CA	14,385	GA	26,394
KS	+1,513	KS	+23	CH	+64	NY	444,948	TX	14,190	NJ	22,965
IL	+1,373	GA	+20	TN	+56	GA	295,337	FL	12,800	AZ	21,774
MO	+1,332	TN	+19	IN	+47	IL	264,839	MA	9,219	VA	17,367
MI	+1,229	VA	+19	VA	+45	AZ	208,725	IL	8,546	AL	15,756
PA	+1,182	LA	+17	OR	+44	NJ	196,968	PA	7,869	MD	14,884
CH	+1,079	WA	+15	KS	+35	NC	185,781	MI	6,921	CH	14,378
GA	+1,023	SC	+13	MD	+33	TN	174,274	GA	6,353	MA	12,442
<b>+15,772</b>		<b>+250</b>		<b>+719</b>		<b>3,863,814</b>		<b>121,711</b>		<b>277,801</b>	
All states	+29,853	All states	+382	All states	+937	All states	6,518,306	All states	186,548	All states	387,616
Top ten	53%	Top ten	65%	Top ten	77%	Top ten	59%	Top ten	65%	Top ten	72%

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TX	-1,845	TX	-47	AR	-24	NC	+10,605
CA	-1,770	GA	-26	MD	-22	MS	+4,873
SC	-1,070	CA	-22	ID	-19	PA	+1,031
WI	-806	LA	-16	GA	-17	TN	+943
LA	-789	SC	-11	WA	-16	AR	+921



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

## Recommended reading

### [Rural California Counties Accuse Newsom of Withholding Covid-19 Funds](#)

Alejandro Lazo  
*Wall Street Journal*  
September 11, 2020

### [Los Angeles County Walks Back Trick-or-Treating Ban — But Says It's Still 'Not Recommended'](#)

Joelle Goldstein  
*People*  
September 10, 2020

### [Fairfax County Is Running Empty School Buses](#)

Kyle Smith  
*National Review*  
September 11, 2020

### [Pandemic Unemployment Will Soon Bring Tax Hikes](#)

Mark Duggan and Andrew C. Johnston  
*Wall Street Journal*  
September 13, 2020

### [How 'Emergency Use' Can Help Roll Out a Covid Vaccine](#)

Scott Gottlieb and Mark McClellan  
*Wall Street Journal*  
September 13, 2020

### [Oxford to Resume Trial of AstraZeneca Vaccine](#)

Stephanie Baker  
*Bloomberg*  
September 12, 2020

### [The Sturgis Bike Rally, Sensationalist Reporting, and Broken Disease Models](#)

Ethan Yang  
*American Institute for Economic Research*  
September 11, 2020

### [Inflation with Covid Consumption Baskets](#)

Alberto Cavallo  
*NBER*  
July 2020

### [Vulnerable Dems anxious over stalled Covid talks](#)

Heather Caygle and Sarah Ferris  
*Politico*  
September 10, 2020

### [GOP Governor Puts an End to Months of COVID Mandates](#)

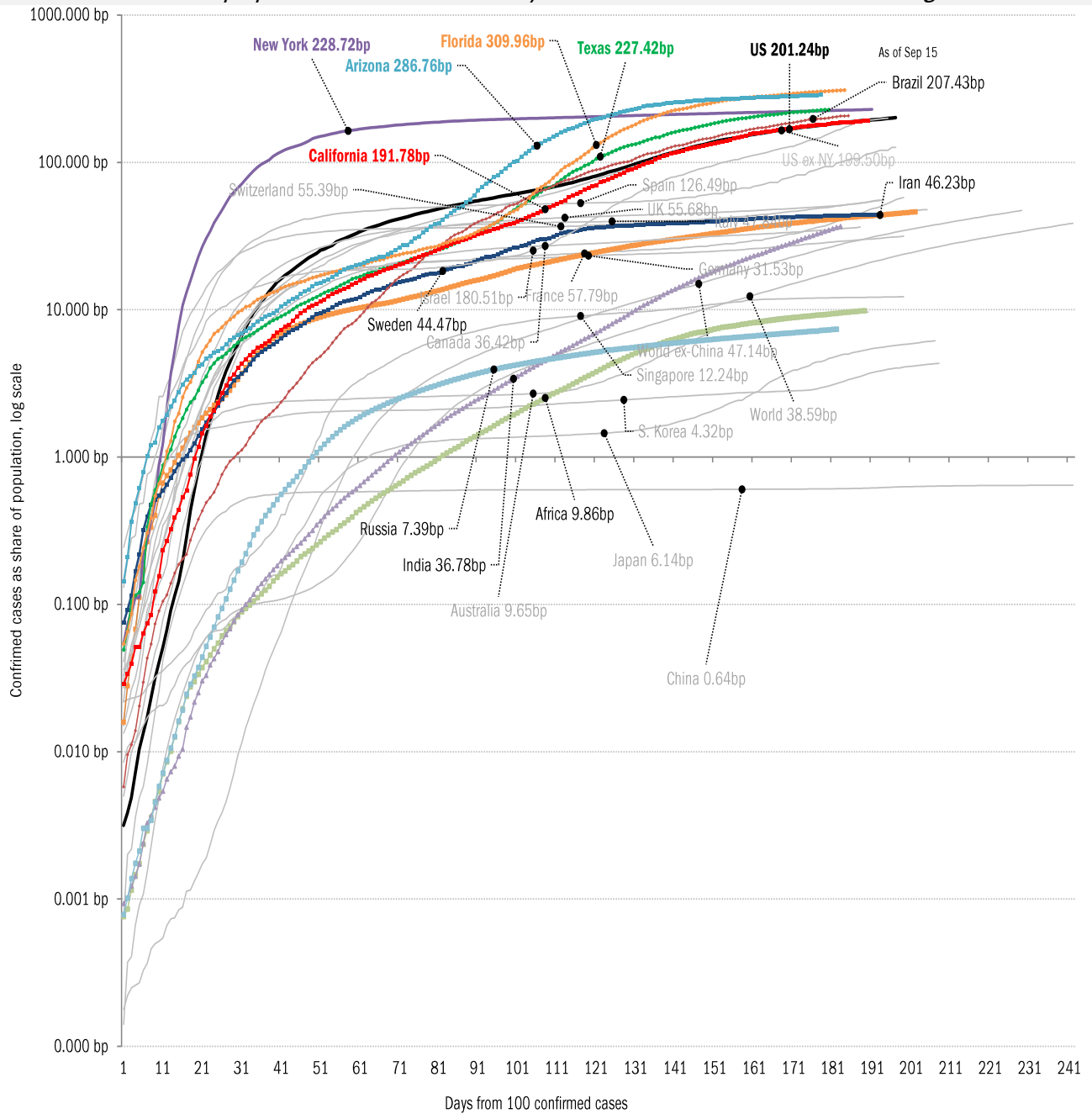
*Associated Press*  
September 10, 2020

## Meme of day

**Why are maskers still  
cussing out  
non-maskers 6 months  
later? Shouldn't  
non-maskers all be dead  
by now?**

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

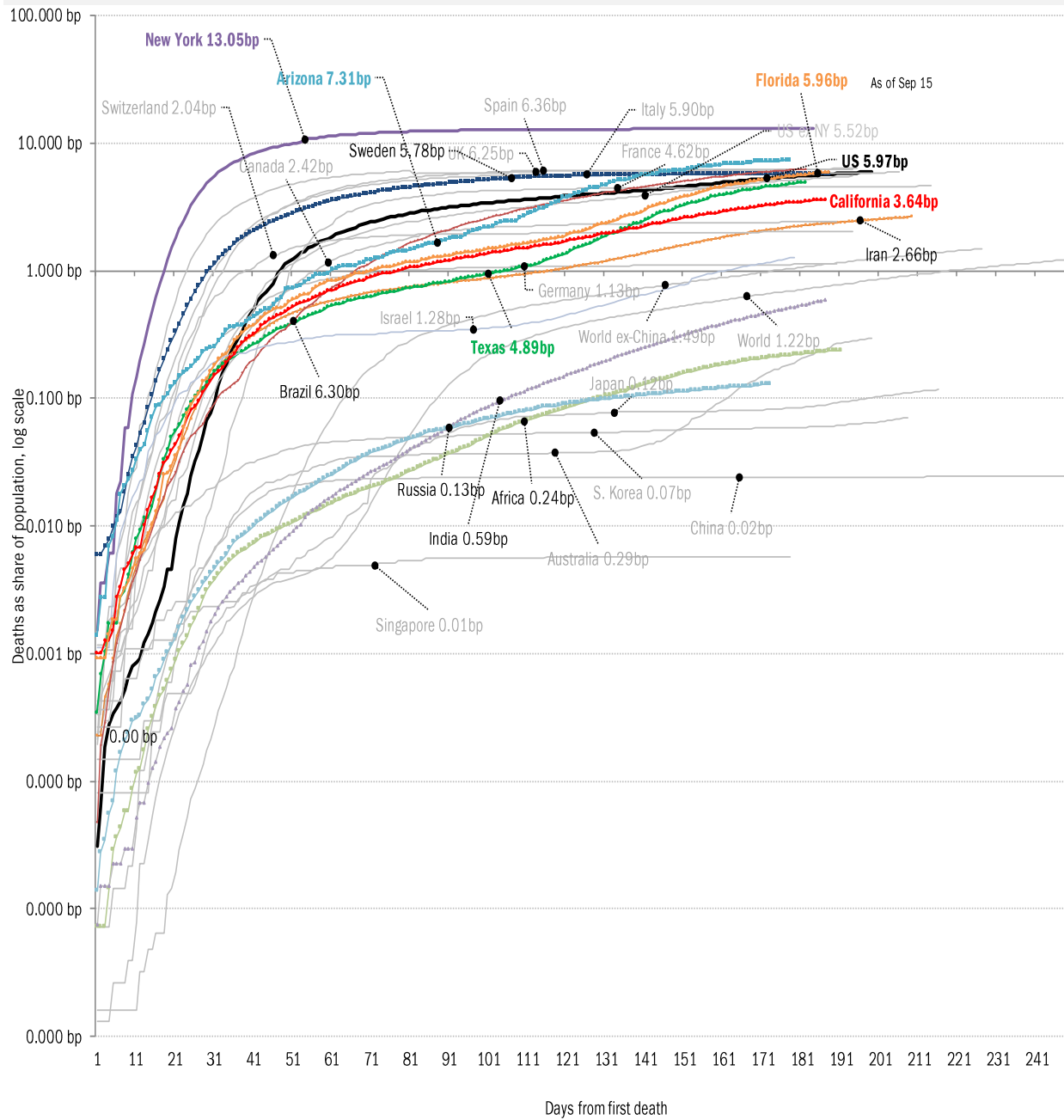
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



Source: [ECDC](#), TrendMacro calculations

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

## Share of deceased population from day of first fatality

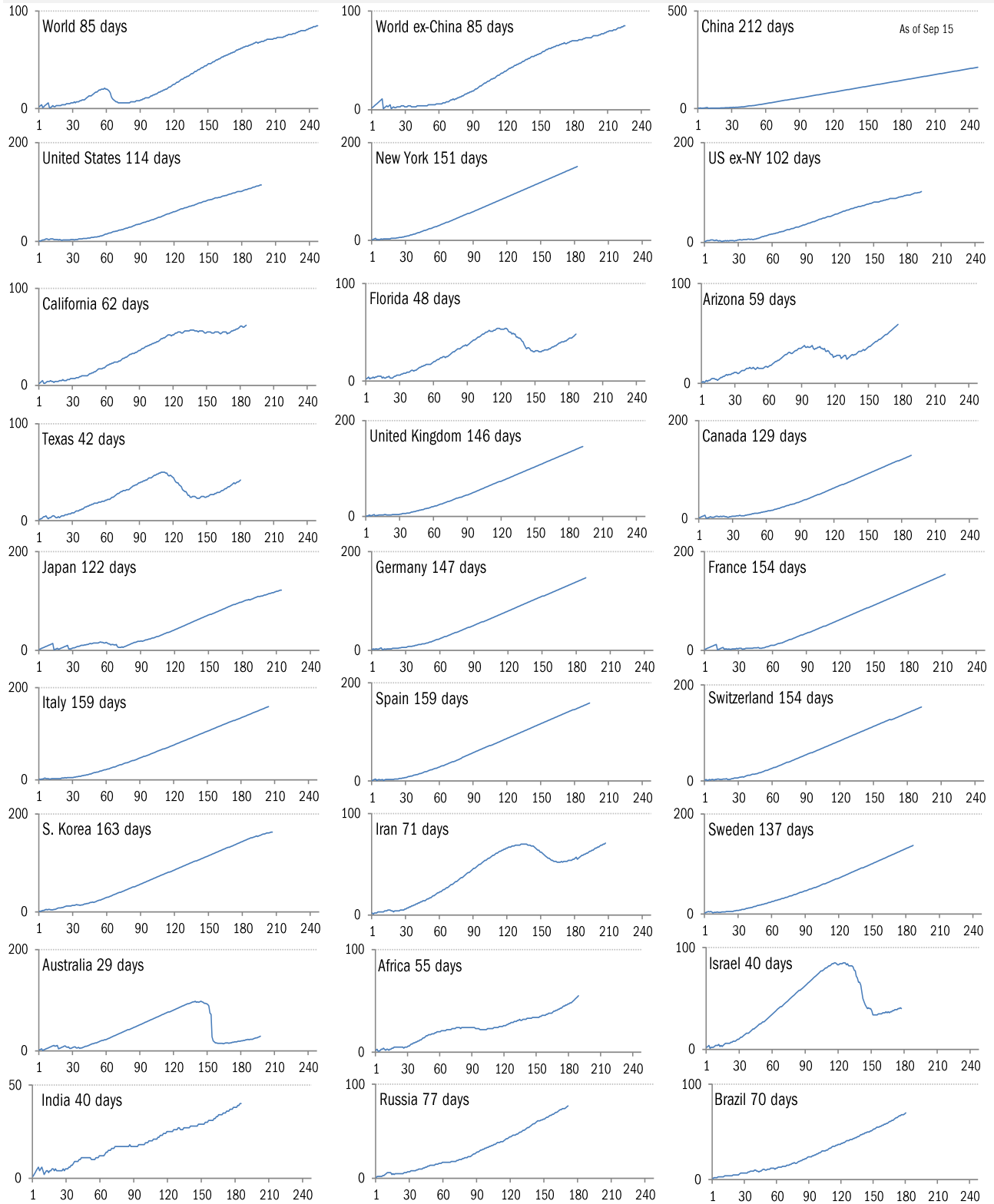


Source: [ECDC](#), TrendMacro calculations

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

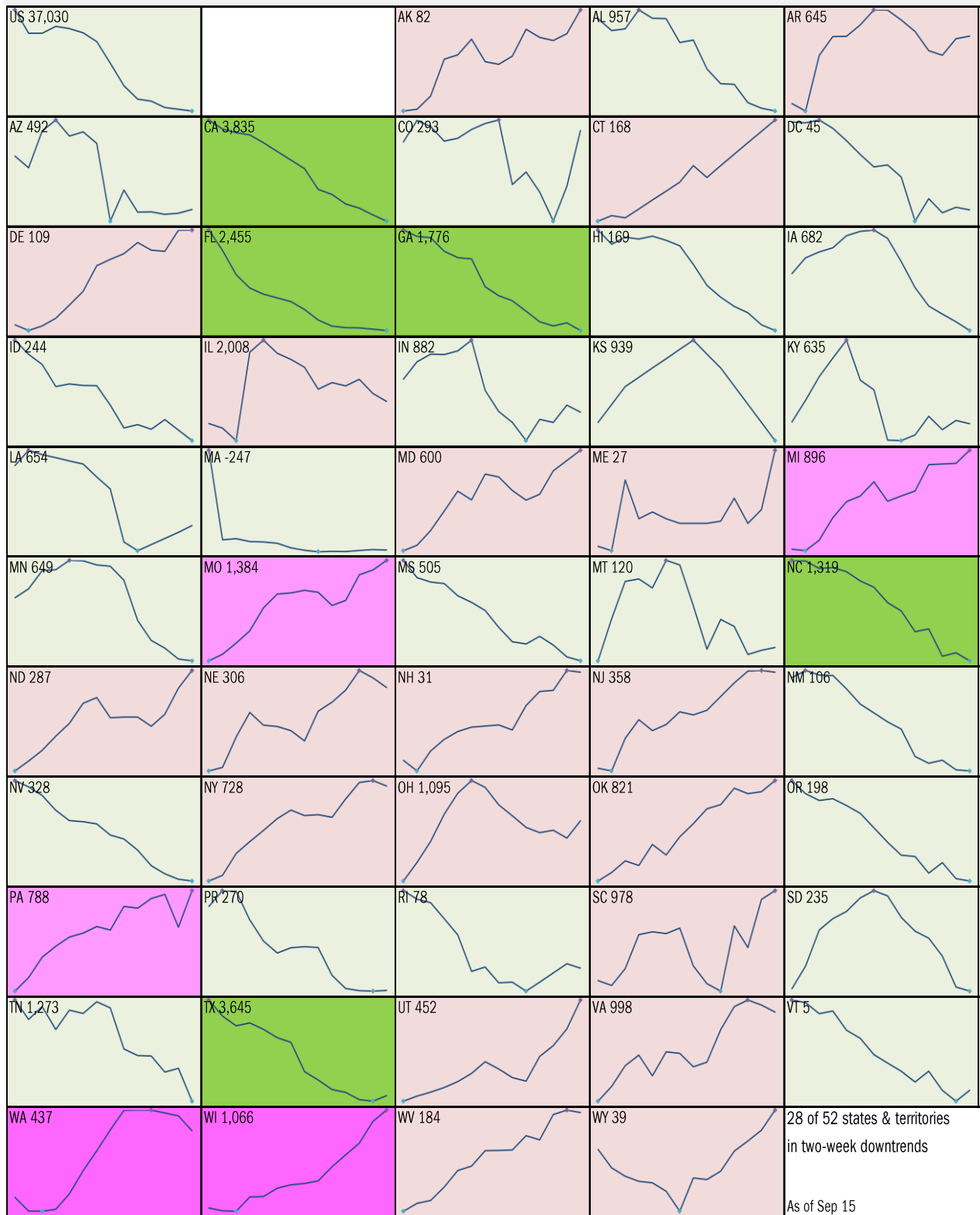
Vertical: days to double deaths Horizontal: days from first death

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



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

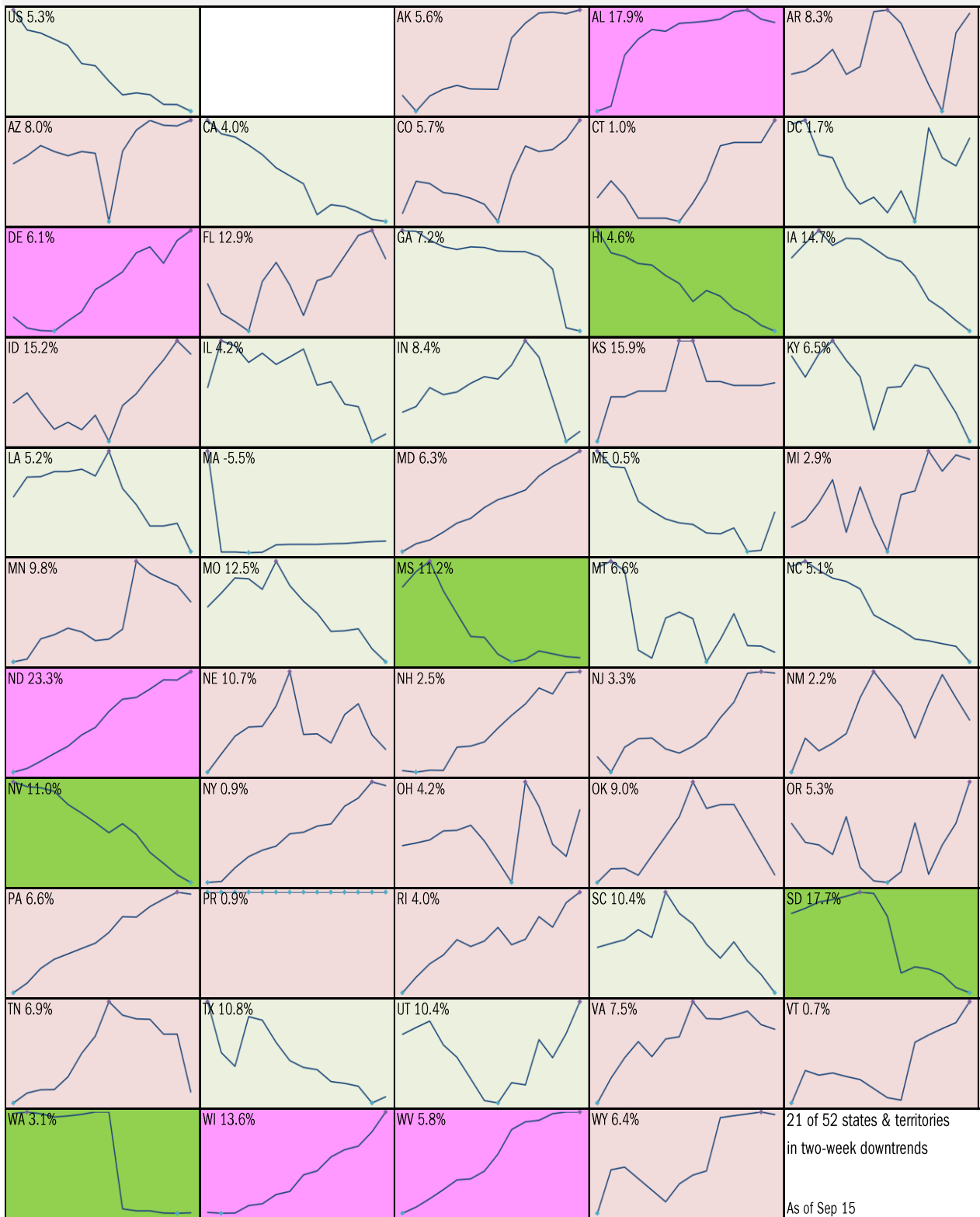


Source: [Covid Tracking Project](#), TrendMacro calculations

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

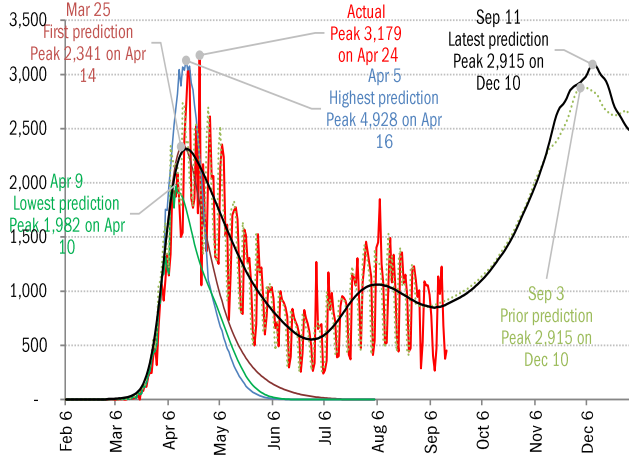


# Reality-checking the models: actuals versus [IHME](#) predictions

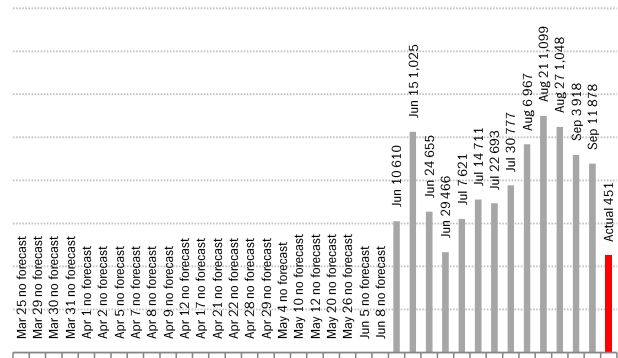
## New daily fatalities

As of Sep 15

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

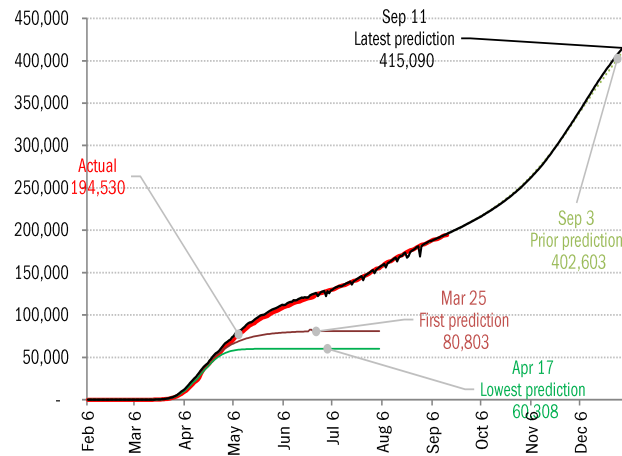


For this day, versus all model mean predictions

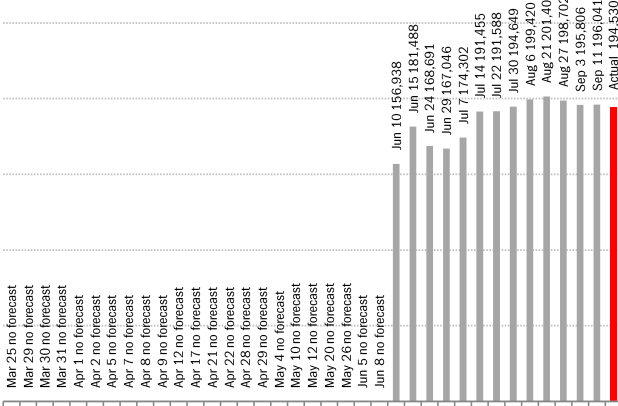


## Cumulative fatalities

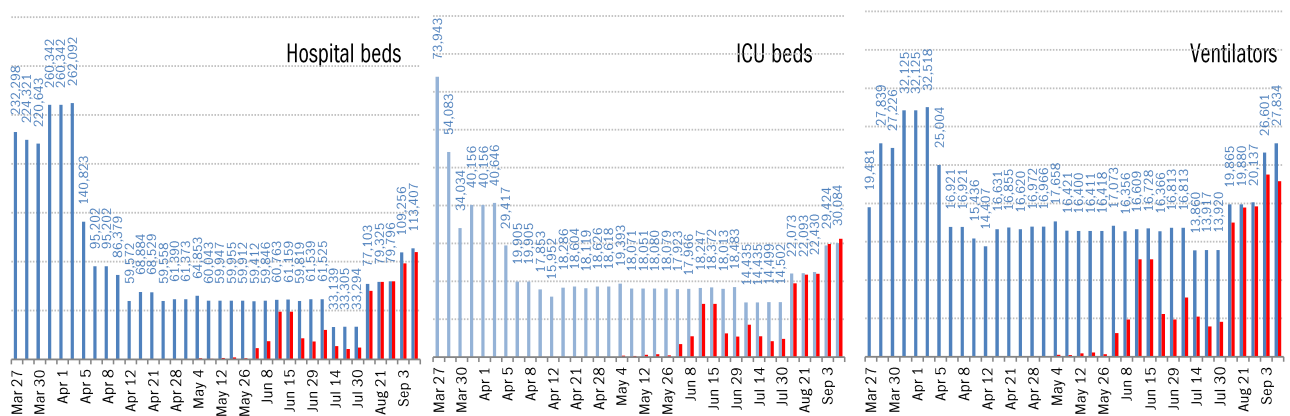
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

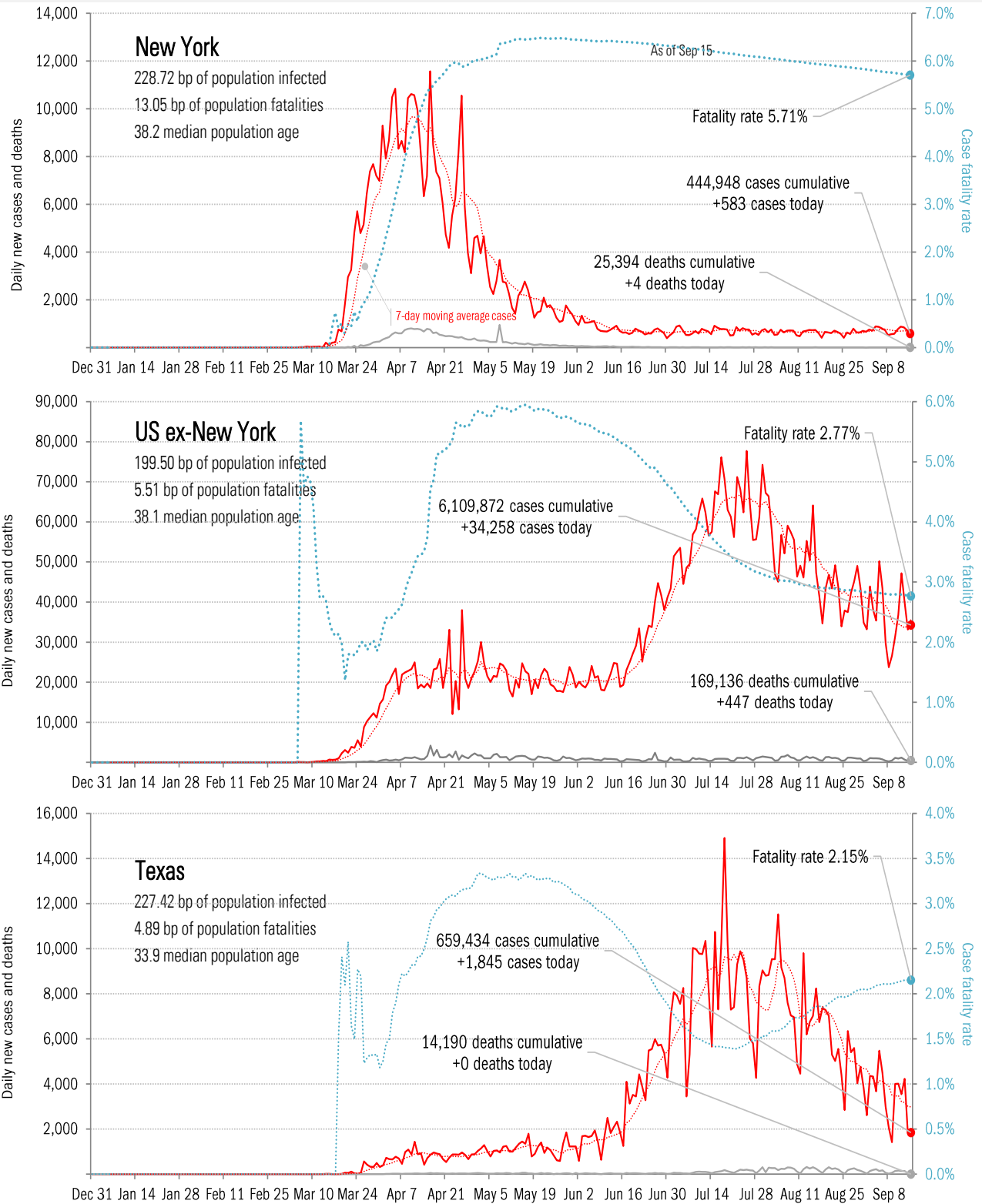


## Healthcare system stress, peak and ultimate estimated at each model revision



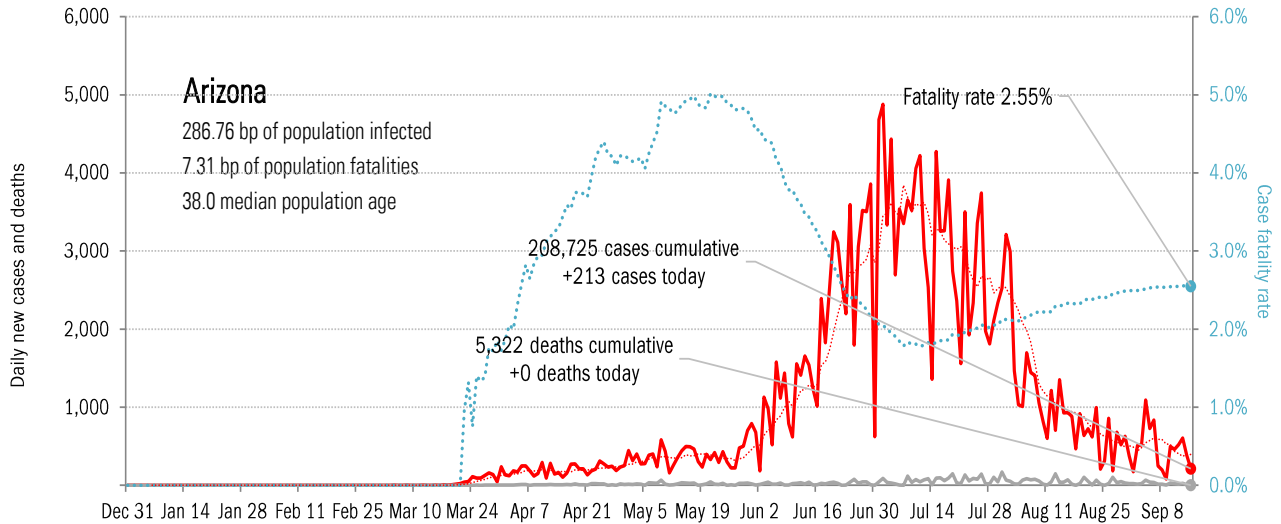
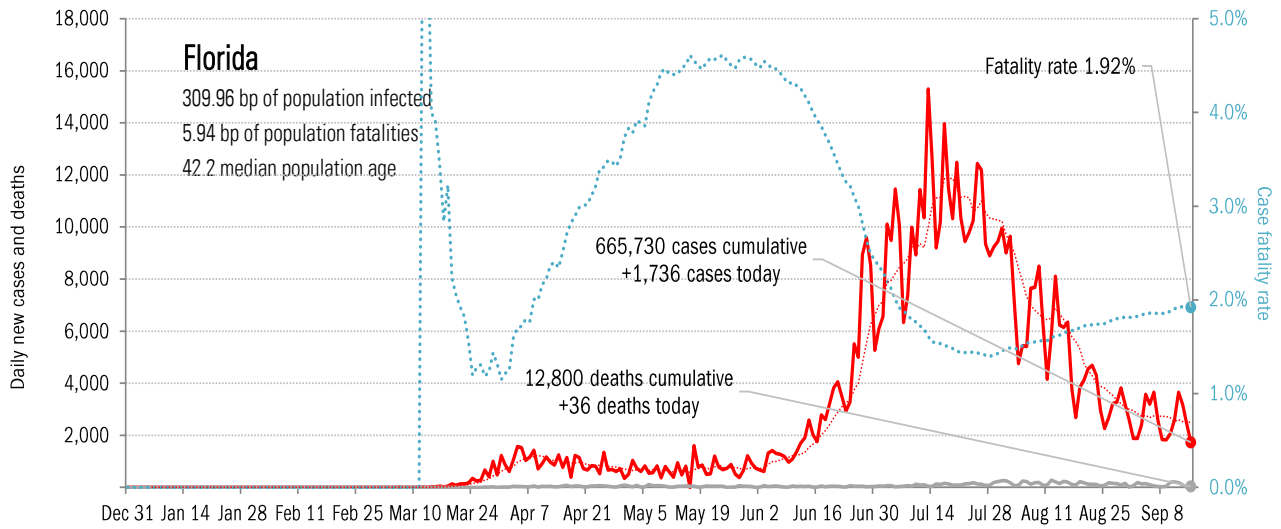
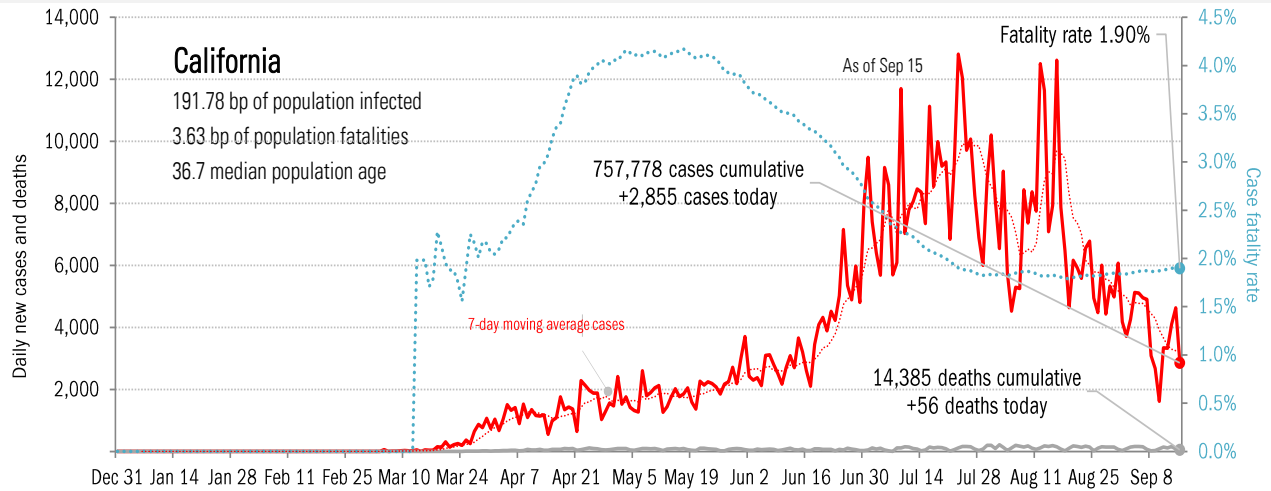
Source: [ECDC](#), [IHME](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



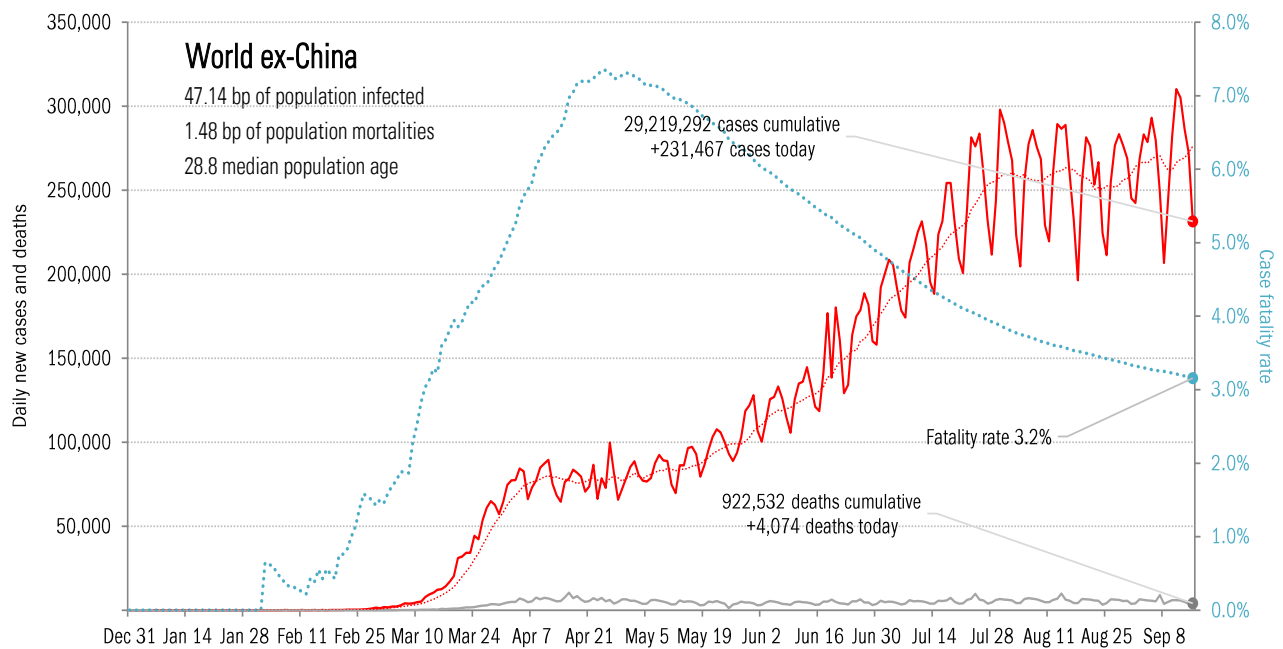
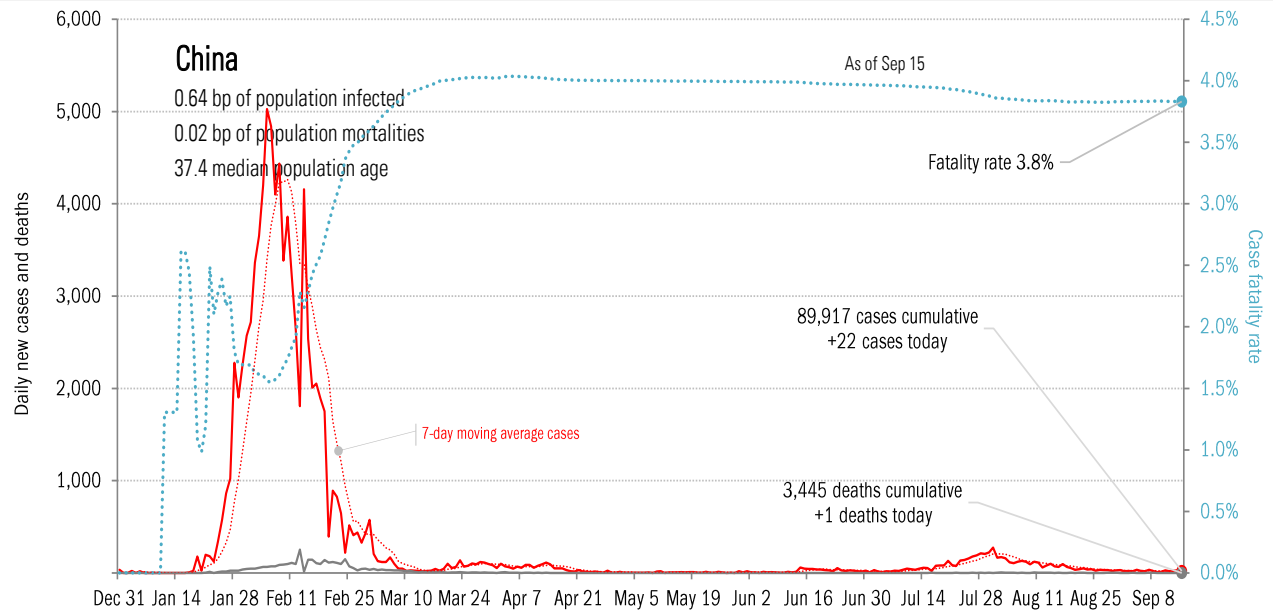
Source: [ECDC](#), TrendMacro calculations

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



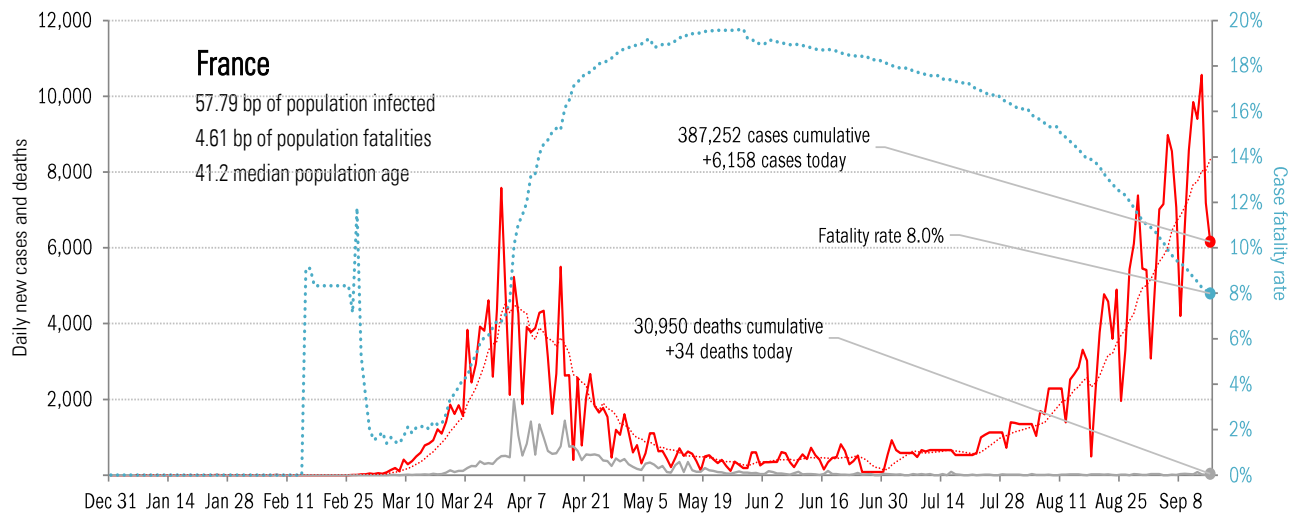
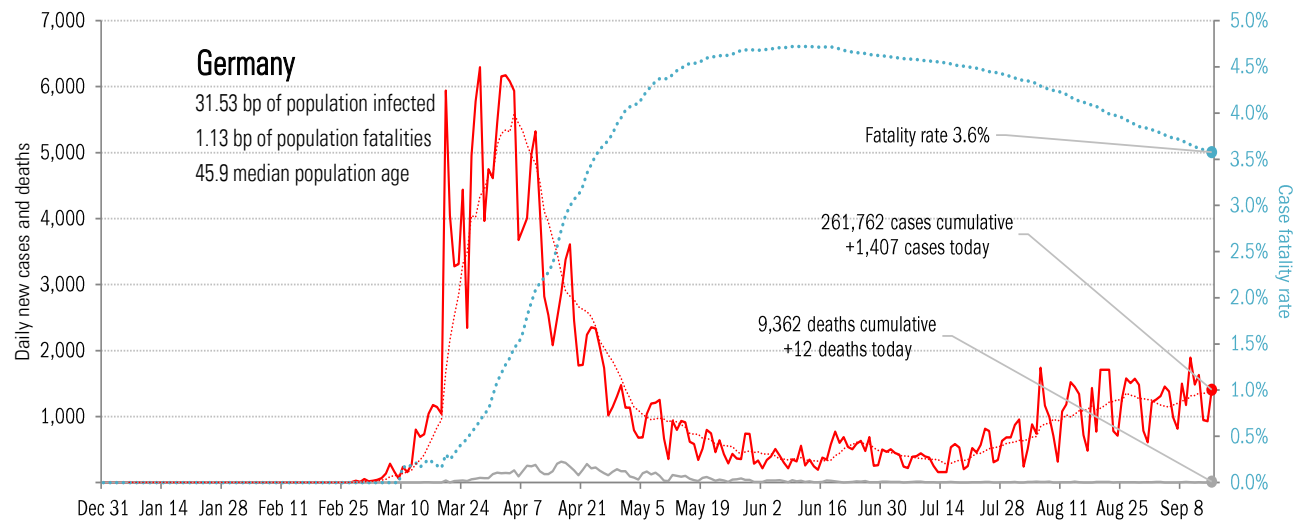
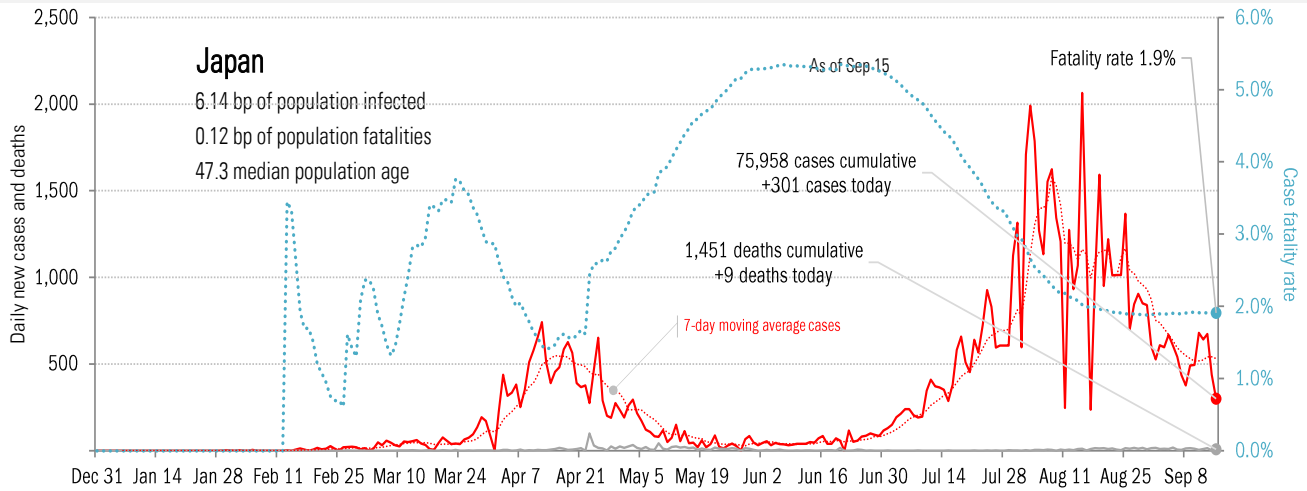
Source: [ECDC](#), TrendMacro calculations

# Patient zero... and then everyone else



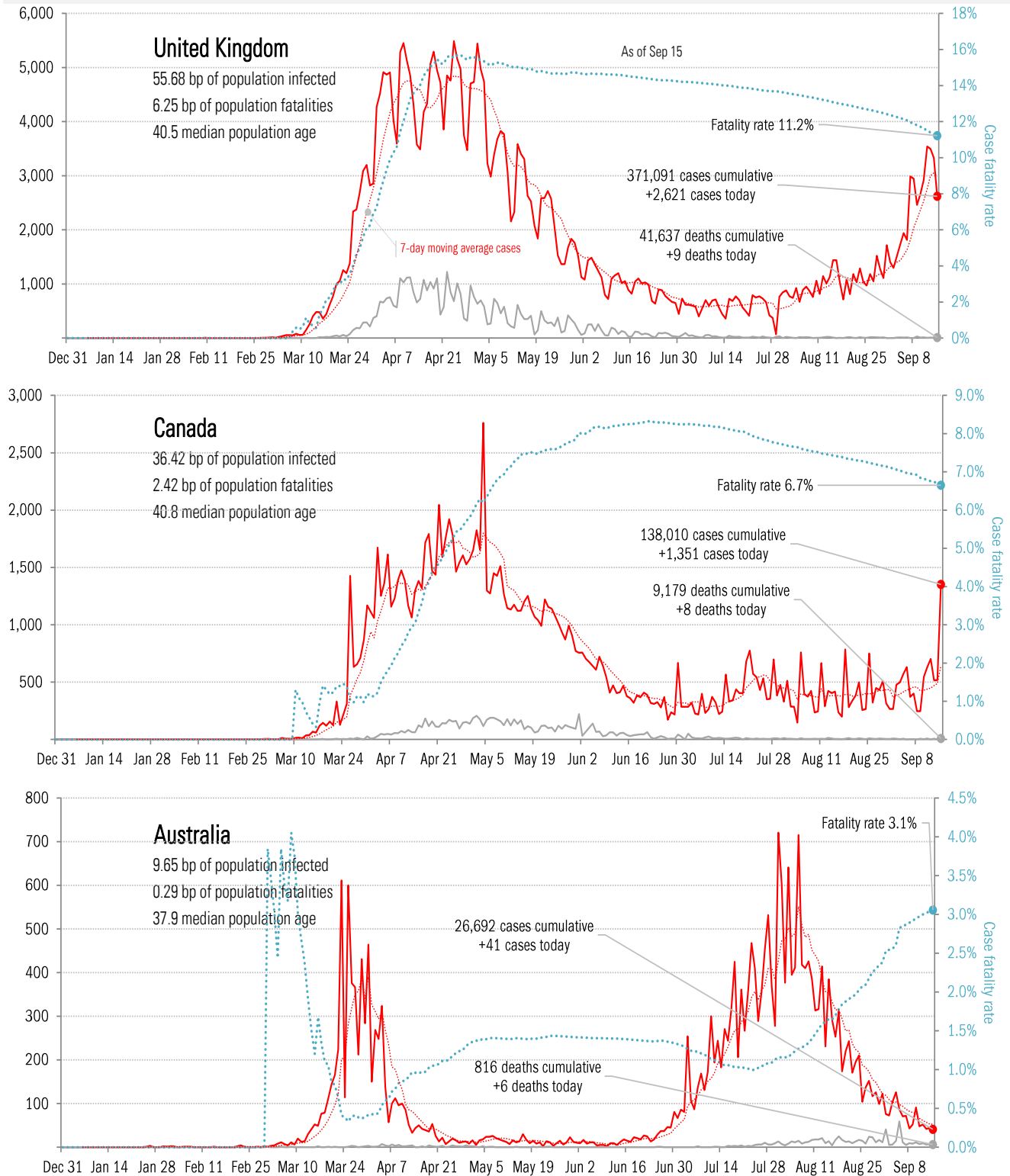
Source: [ECDC](#), TrendMacro calculations

# Impact in the largest economies



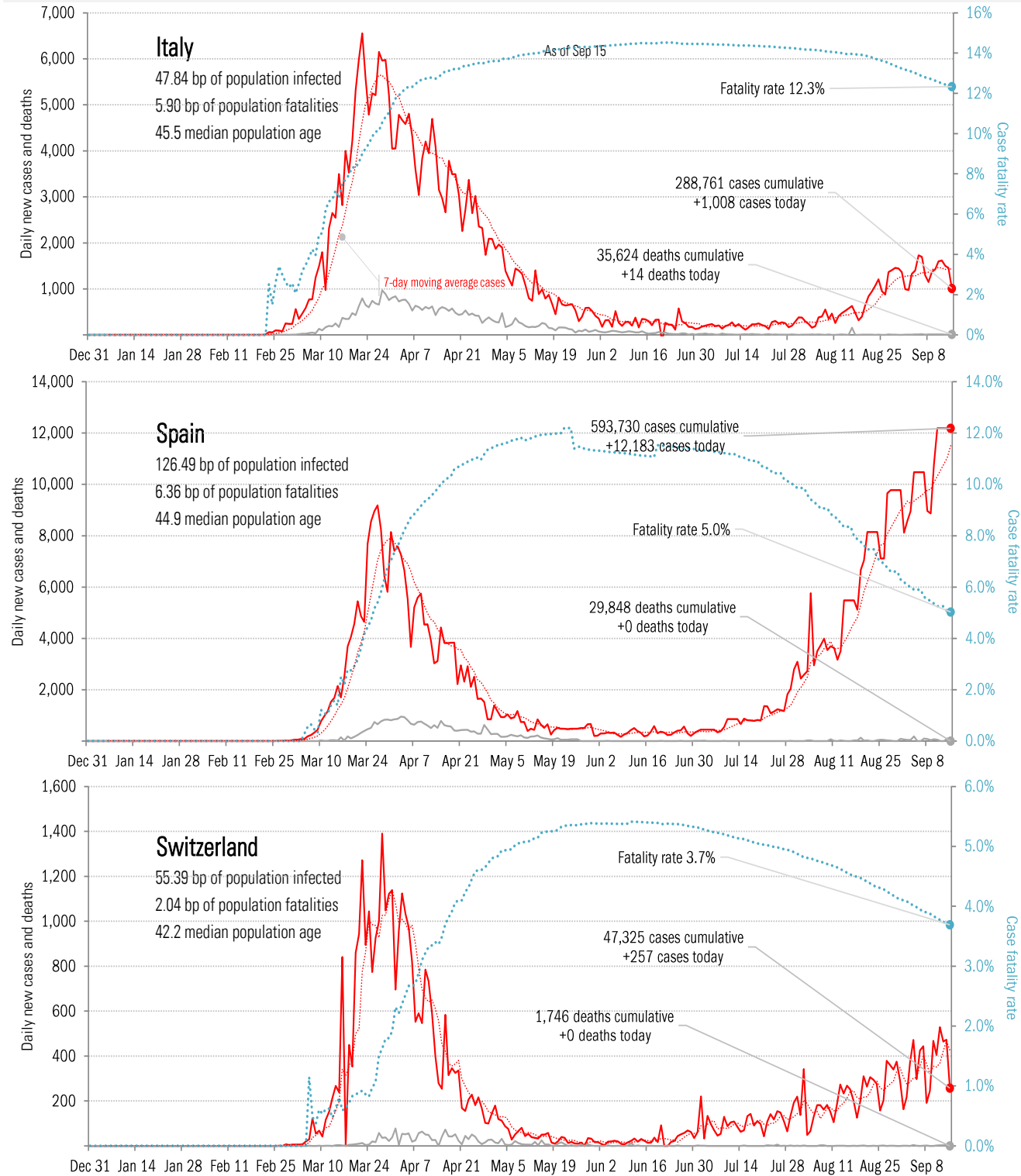
Source: [ECDC](#), TrendMacro calculations

# Impact in The Anglosphere



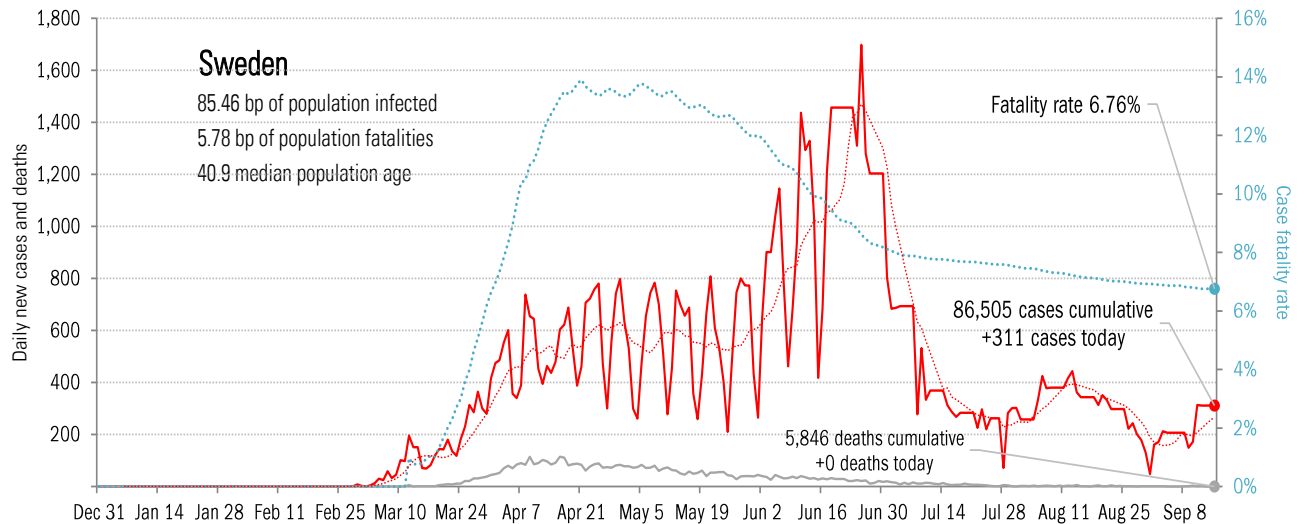
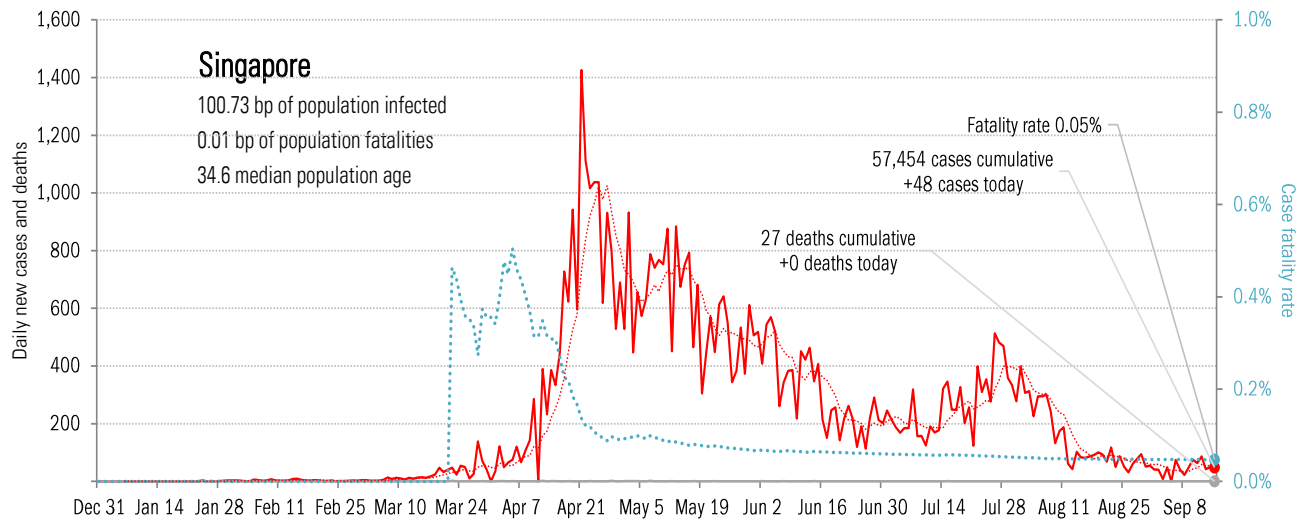
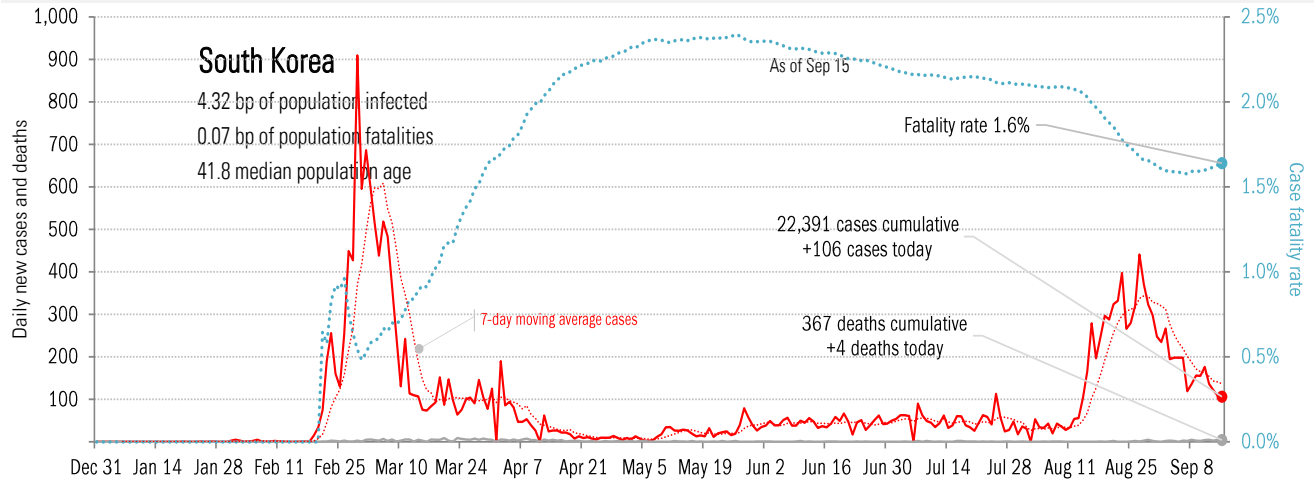
Source: [ECDC](#), TrendMacro calculations

# Impact in continental Europe



Source: [ECDC](#), TrendMacro calculations

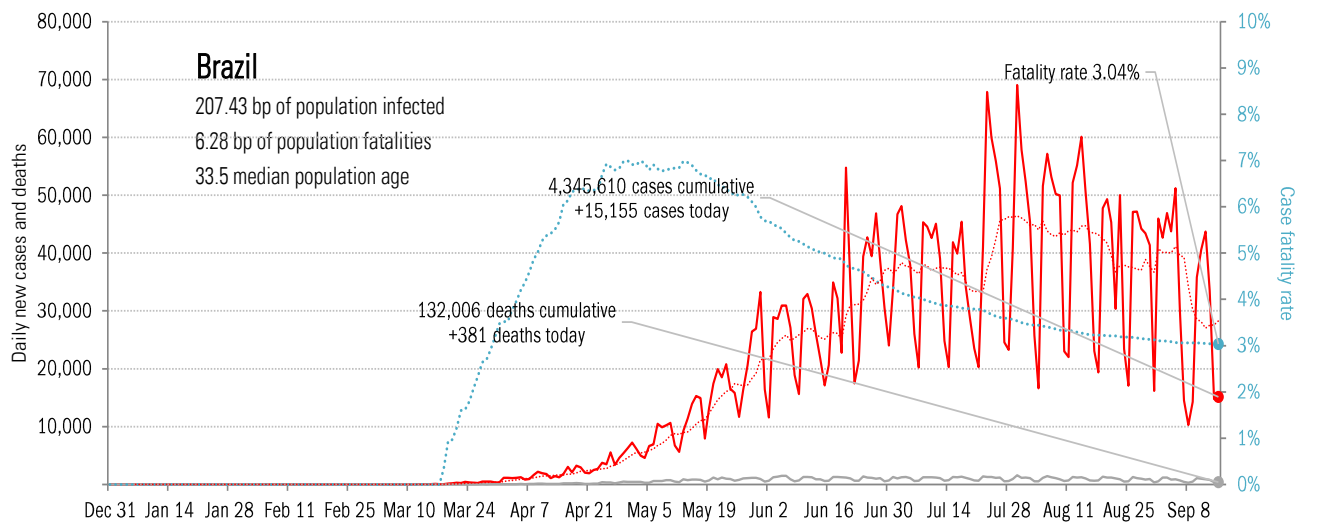
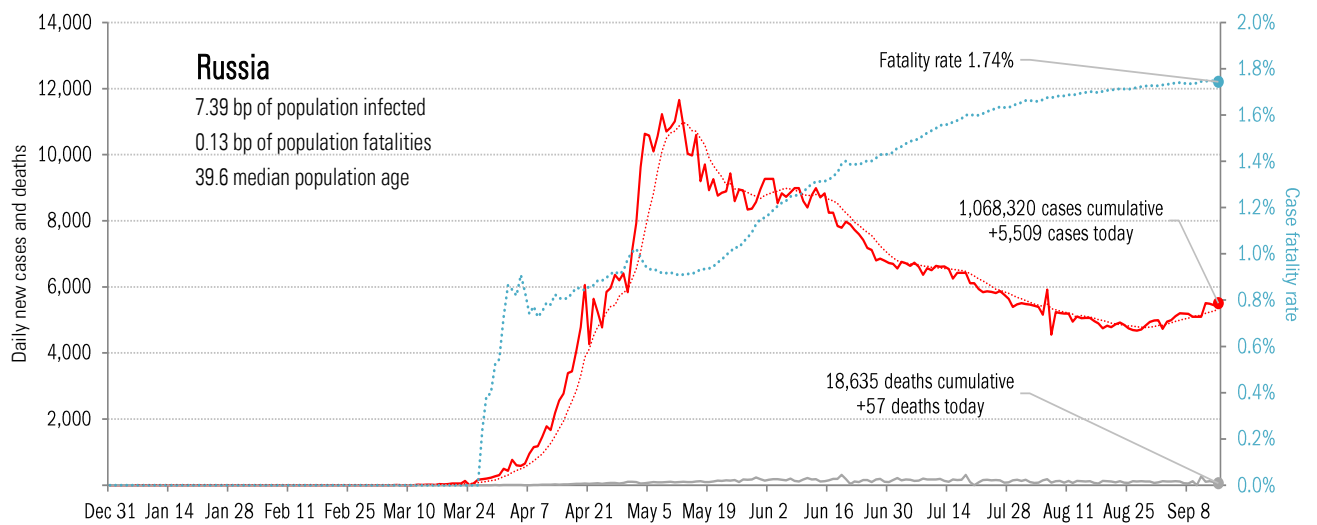
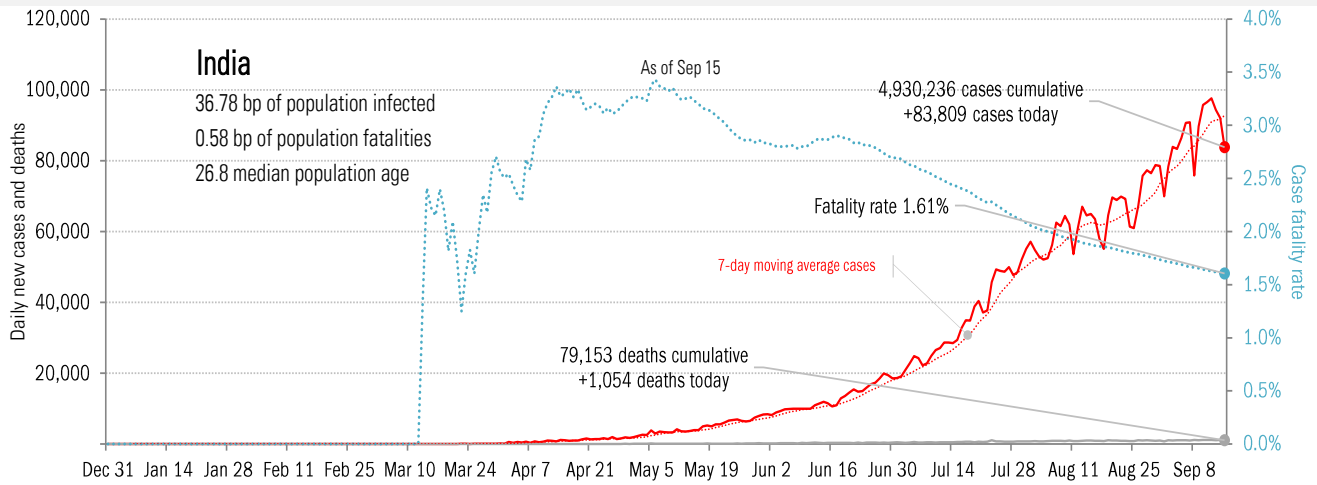
# Impact in other hot-spots



Source: [ECDC](#), TrendMacro calculations

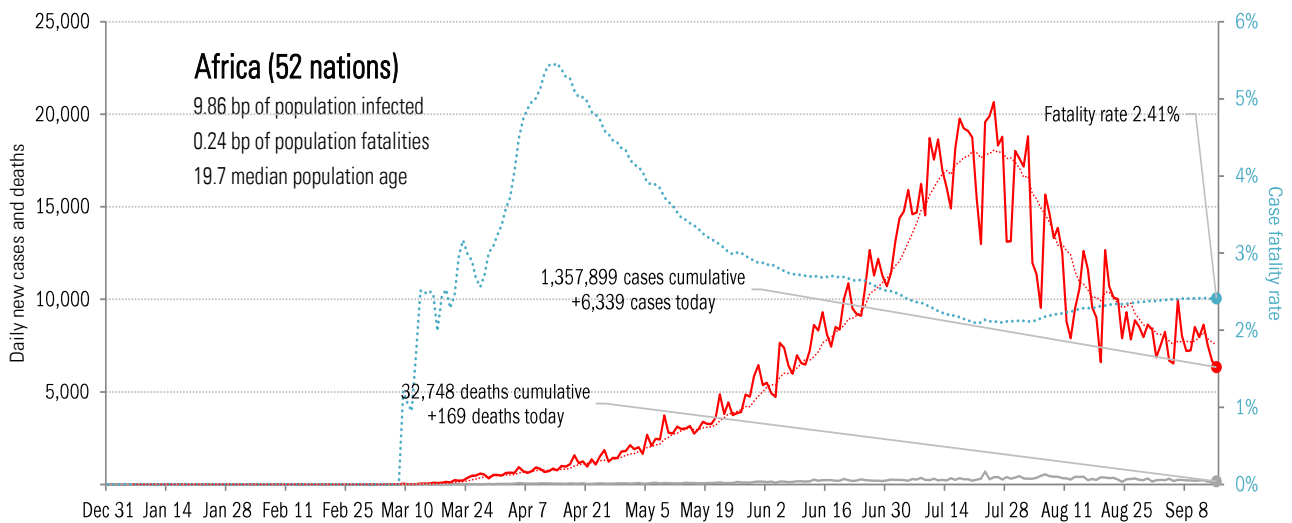
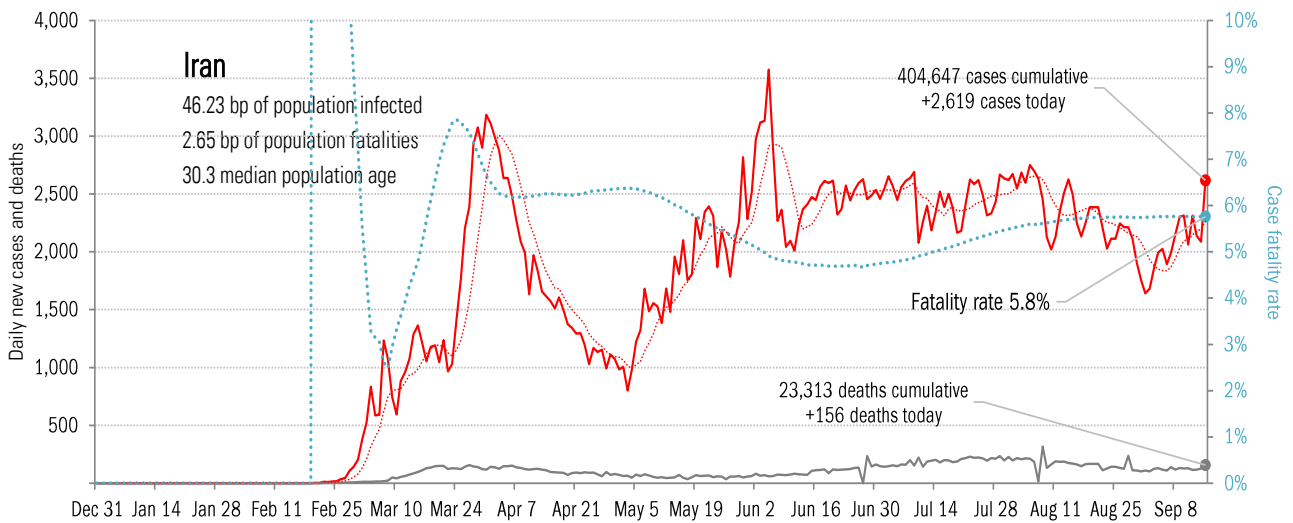
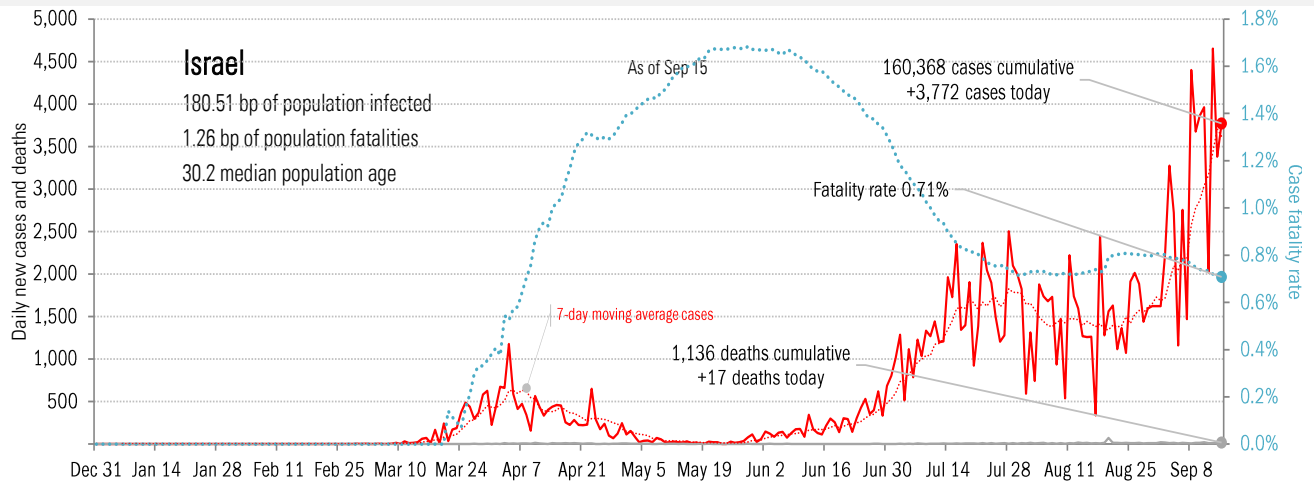


# Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

# Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations