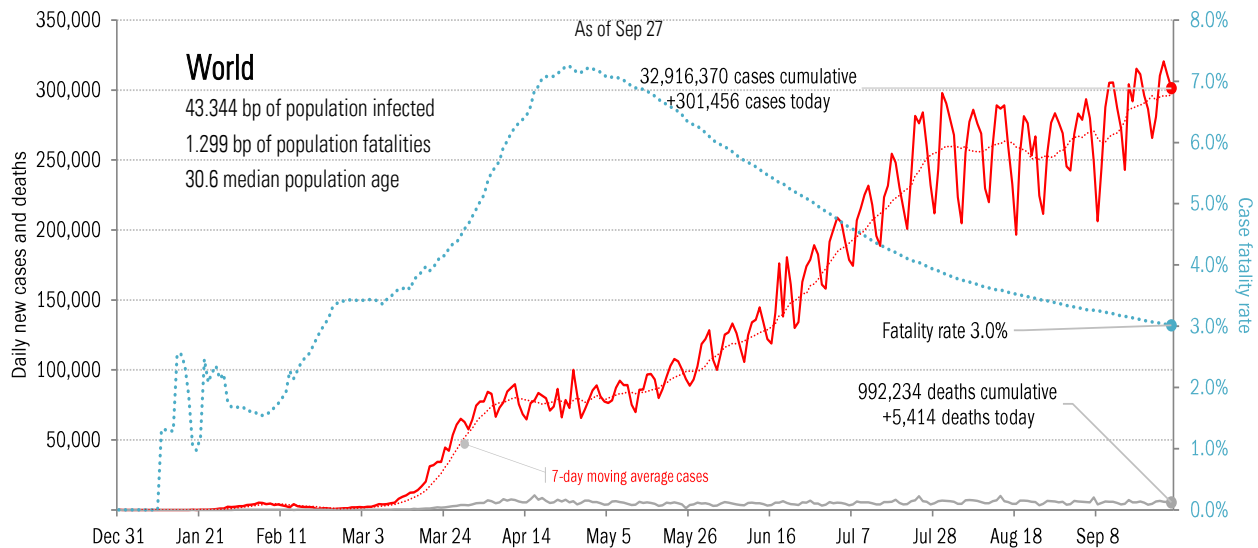
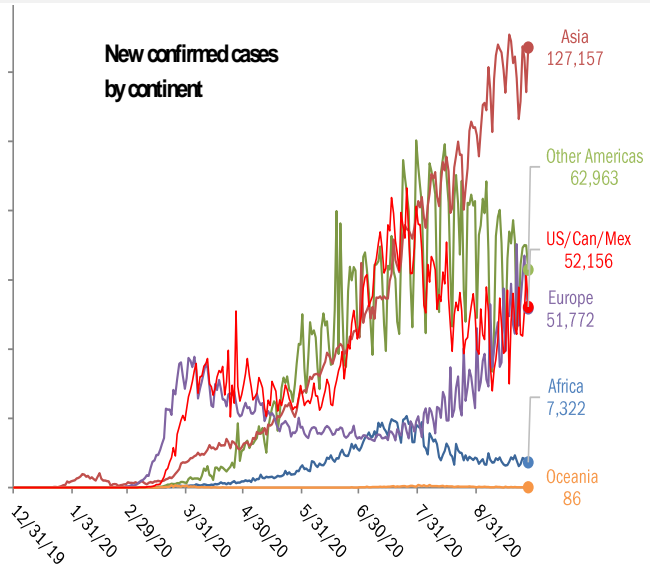


## Data Insights: Covid-2019 Monitor

Sunday, September 27, 2020

### The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+88,600	India	+1,124
US	+47,733	Brazil	+869
Brazil	+28,378	US	+723
France	+14,412	Mexico	+399
Spain	+12,272	Argentina	+335
Israel	+11,827	Colombia	+193
Argentina	+11,249	Iran	+172
Colombia	+7,721	Russia	+169
Russia	+7,523	Peru	+105
UK	+6,041	Indonesia	+90
<b>+235,756</b>		<b>+4,179</b>	
World	+301,456	World	+5,414
Top ten	78%	Top ten	77%



Source: [ECDC](#), 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

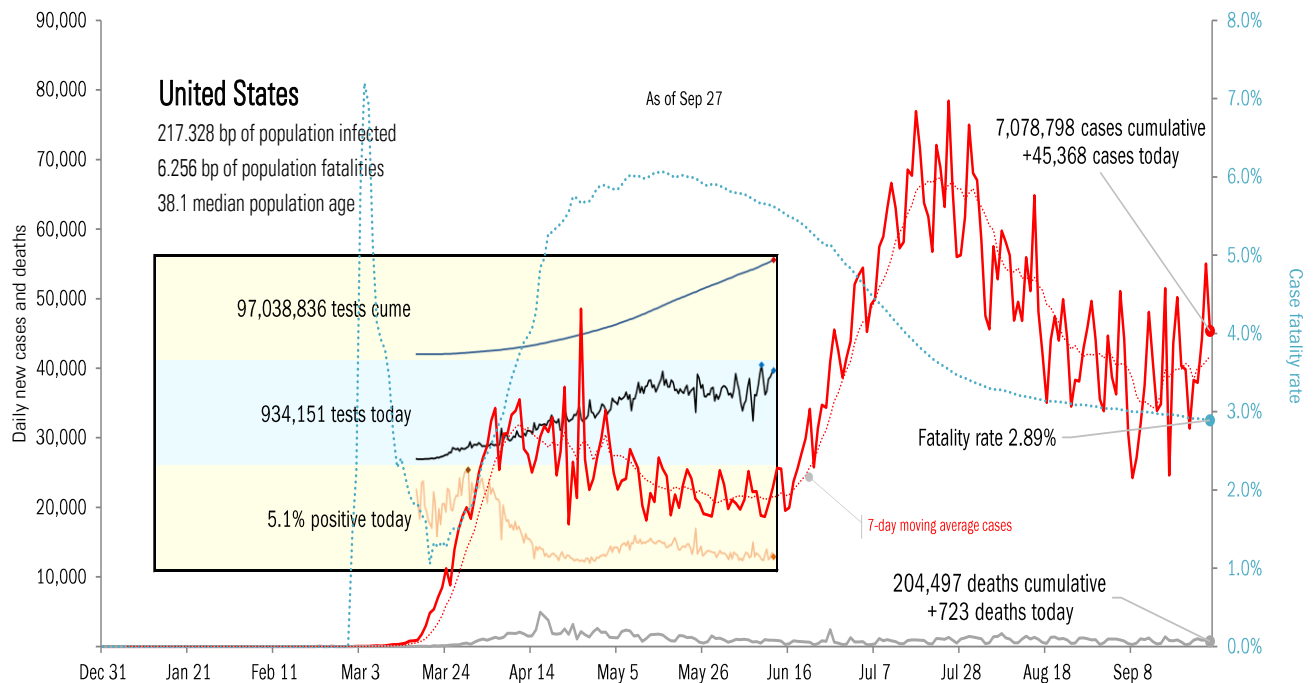
National and state-by-state data do not line up because of different sources

## The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
TX	+4,886	CA	+134	FL	+171	CA	798,237	NY	25,450	NY	89,995
CA	+4,197	TX	+121	GA	+118	TX	733,438	NJ	16,103	FL	43,964
WI	+2,902	FL	+107	WI	+79	FL	698,682	CA	15,532	GA	28,153
FL	+2,795	MO	+69	OK	+60	NY	454,760	TX	15,485	NJ	23,324
IL	+2,441	GA	+40	IN	+58	GA	313,873	FL	14,190	AZ	22,005
NC	+1,759	AZ	+35	CH	+58	IL	288,815	MA	9,391	VA	18,179
MO	+1,716	NC	+31	WA	+55	AZ	216,826	IL	8,832	AL	16,852
MN	+1,470	SC	+26	MD	+54	NC	206,090	PA	8,103	MD	15,382
TN	+1,437	IL	+25	MN	+52	NJ	202,850	MI	7,044	CH	15,185
SC	+1,371	PA	+22	TN	+51	TN	190,891	GA	6,914	MA	12,637
<b>+24,974</b>		<b>+610</b>		<b>+756</b>		<b>4,104,462</b>		<b>127,044</b>		<b>285,676</b>	
All states	+47,733	All states	+866	All states	+1,154	All states	7,045,170	All states	196,562	All states	403,325
Top ten	52%	Top ten	70%	Top ten	66%	Top ten	58%	Top ten	65%	Top ten	71%

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
NC	-4,383	NC	-22	AL	-74	MI	+4,835
AL	-1,519	LA	-21	KS	-50	TX	+3,437
KS	-1,366	TN	-20	AR	-42	IA	+2,842
LA	-706	FL	-15	VA	-40	WI	+1,728
FR	-555	VA	-15	CR	-28	TN	+1,426



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

## Recommended reading

### [Nothing Eats Viruses, Right? Meet Some Hungry Protists](#)

Katherine J. Wu  
*New York Times*  
September 24, 2020

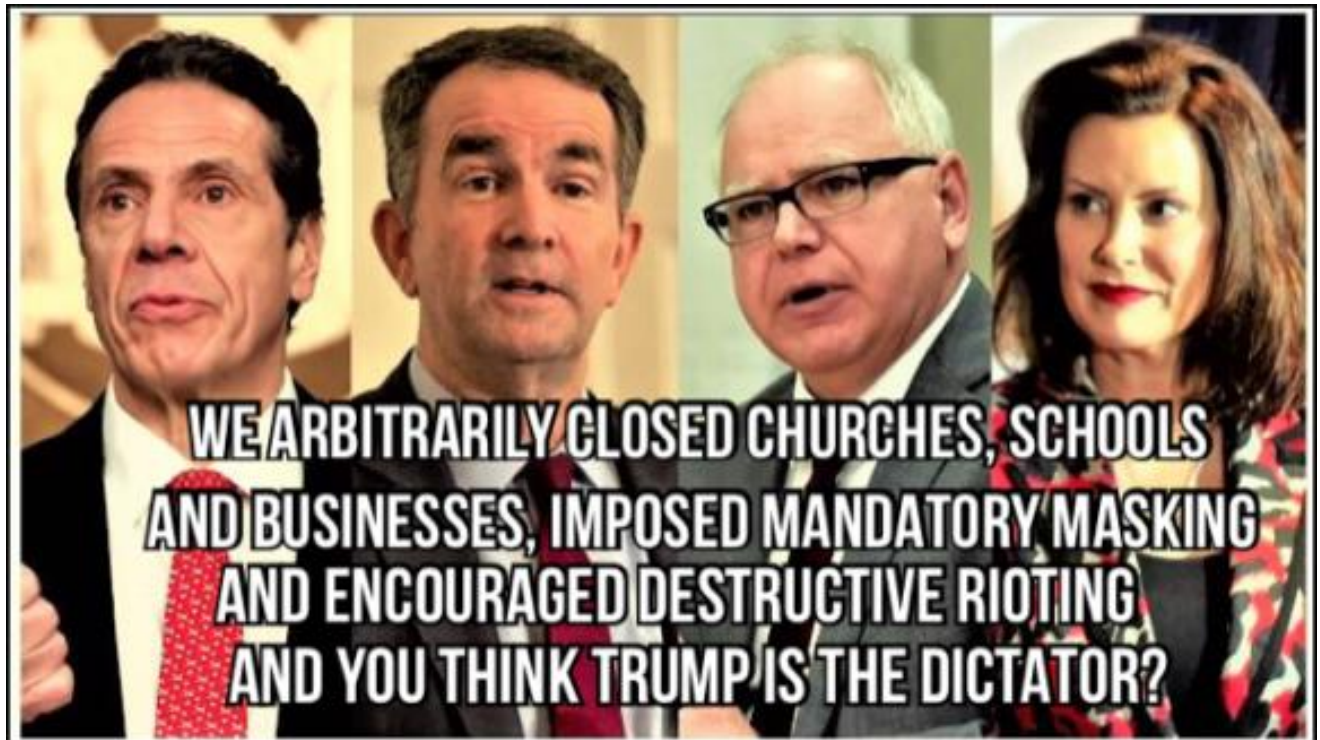
### [Covid Immunity Remains Low With Under 10% of U.S. Adults Exposed](#)

Michelle Fay Cortez  
*Bloomberg*  
September 25, 2020

### [The Virus Sent Doves to a Small Town. Suddenly, It's Not So Small](#)

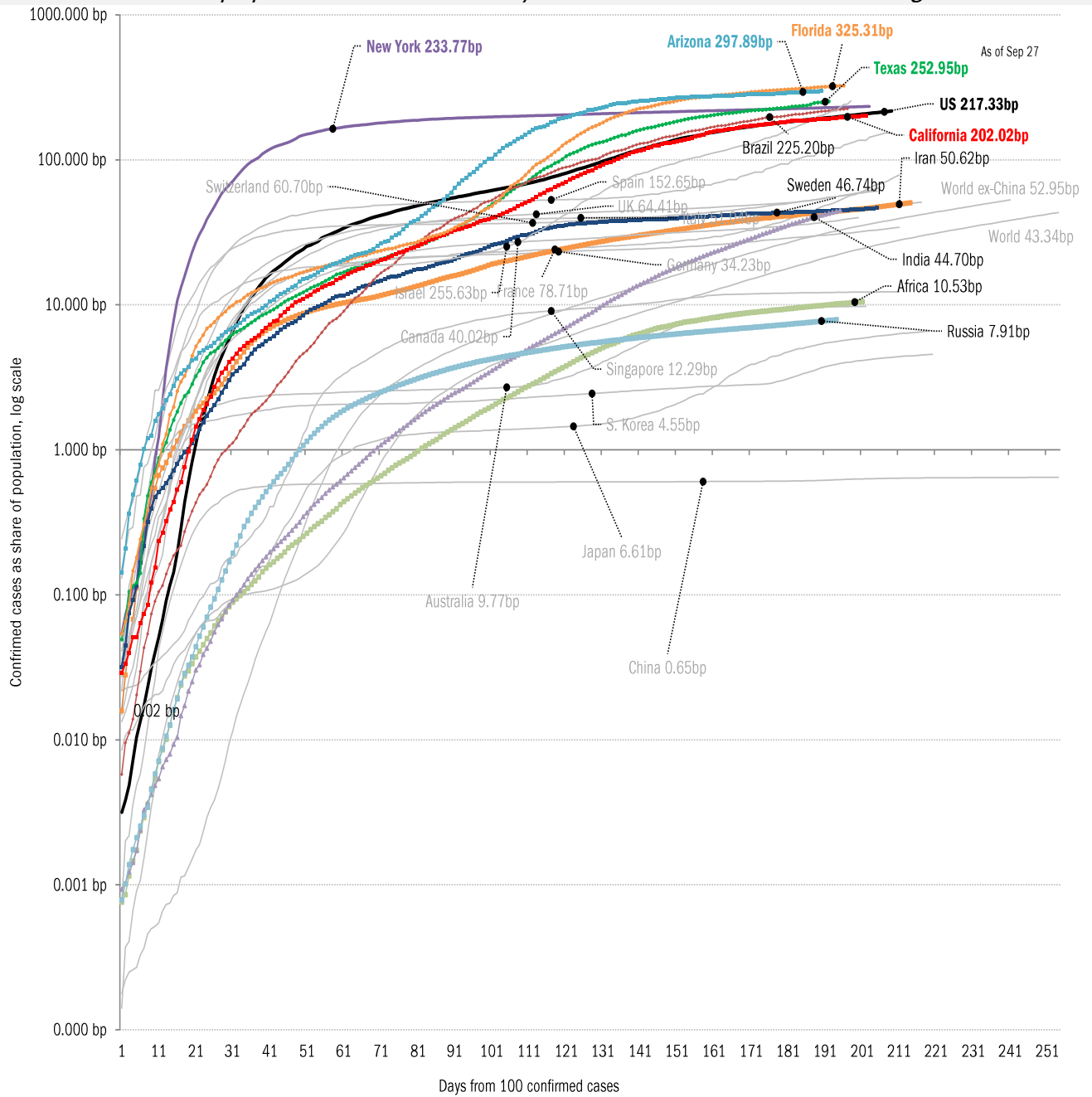
Ellen Barry  
*New York Times*  
September 26, 2020

## Meme of day



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

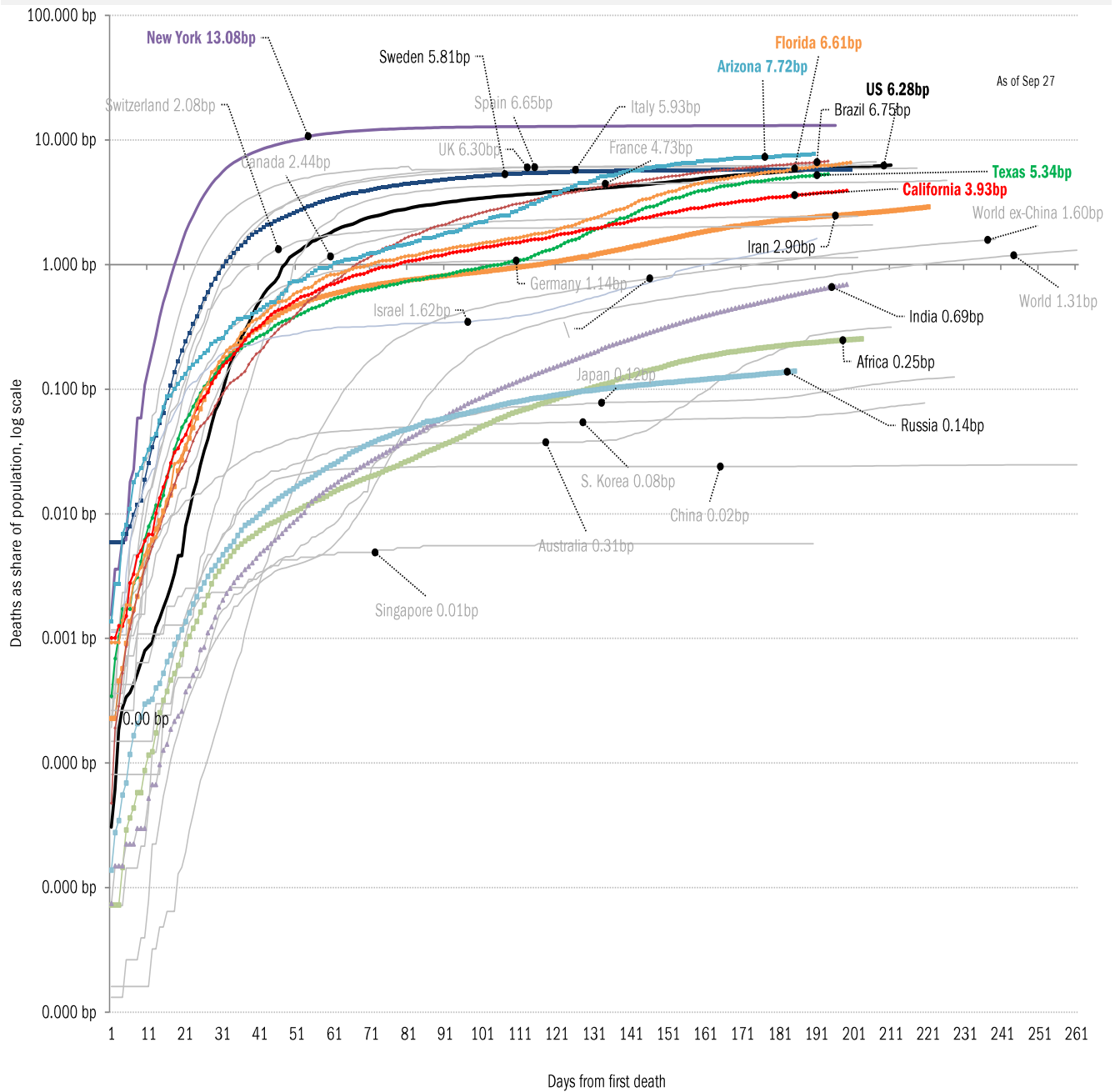
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



Source: [ECDC](#), TrendMacro calculations

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

## Share of deceased population from day of first fatality

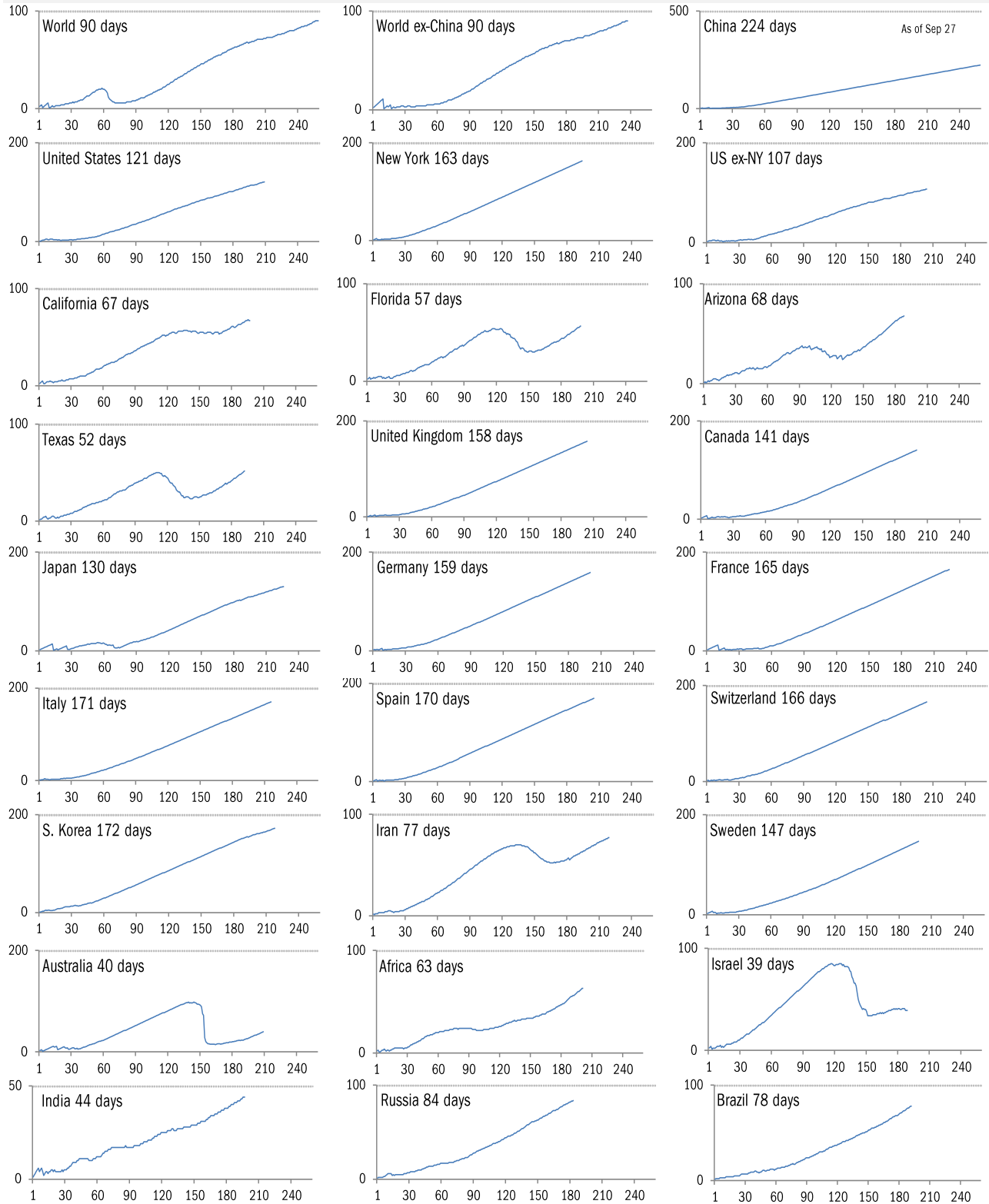


Source: [ECDC](#), TrendMacro calculations

# 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

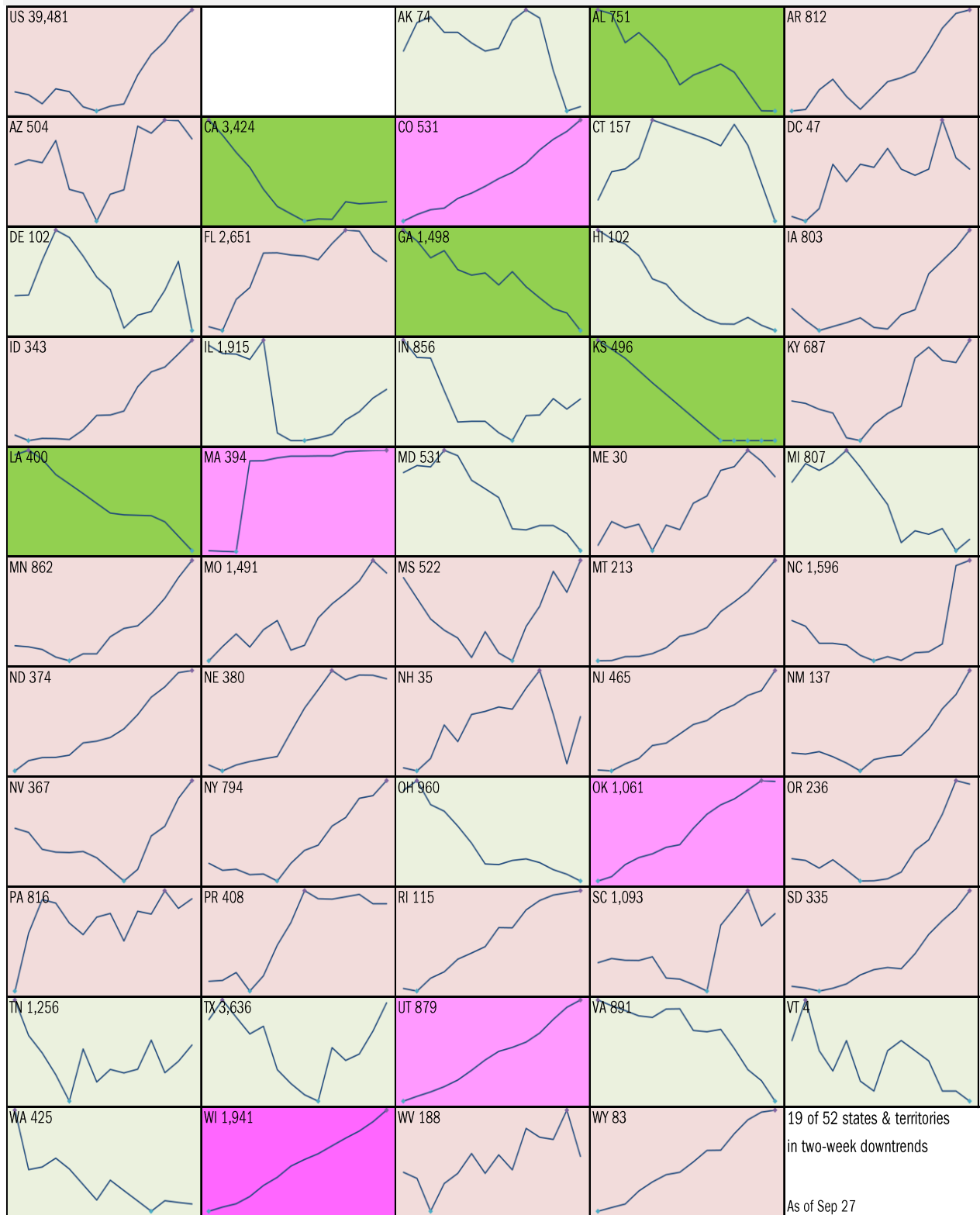


Source: [ECDC](#), TrendMacro calculations

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

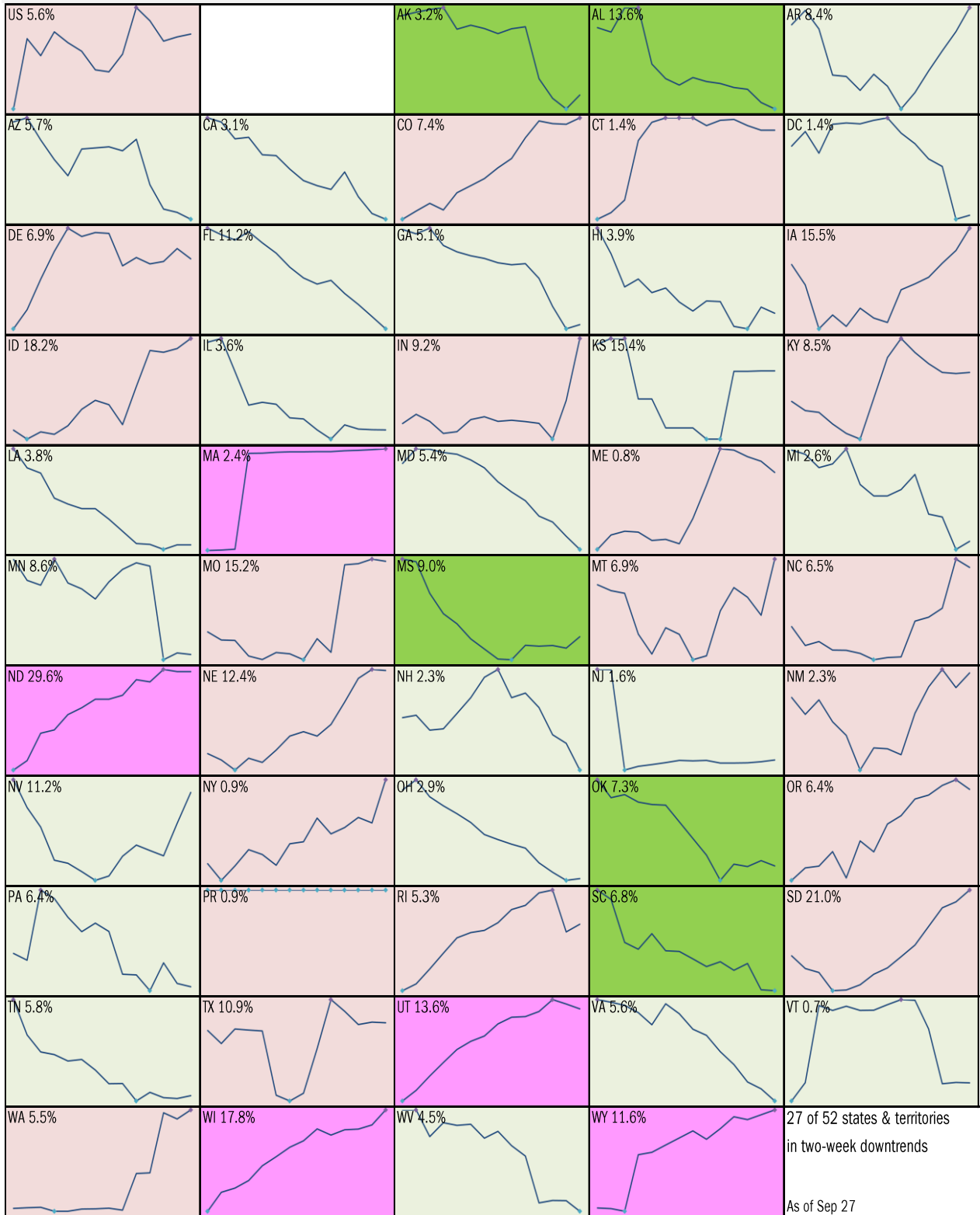


Source: [Covid Tracking Project](#), TrendMacro calculations

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

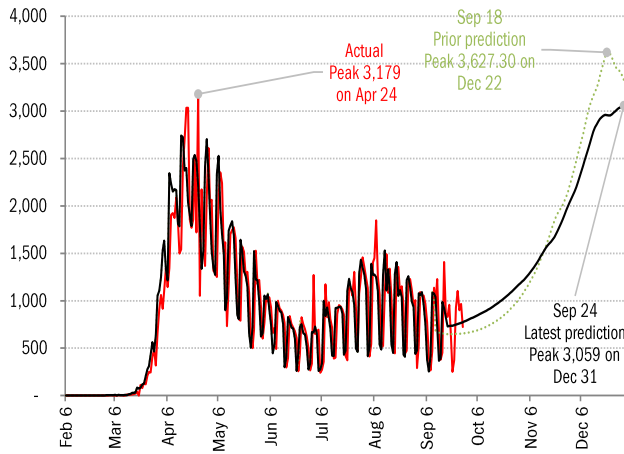


# Reality-checking the models: actuals versus [IHME](#) predictions

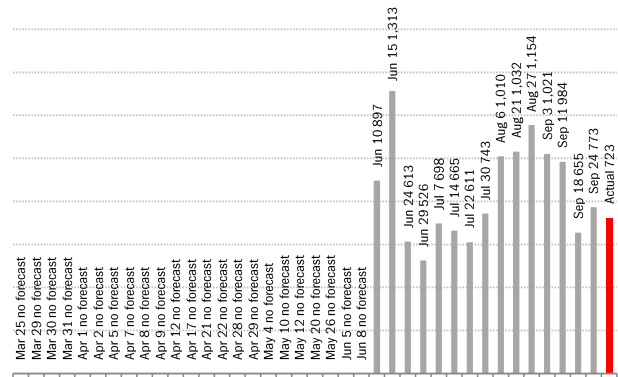
## New daily fatalities

As of Sep 27

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

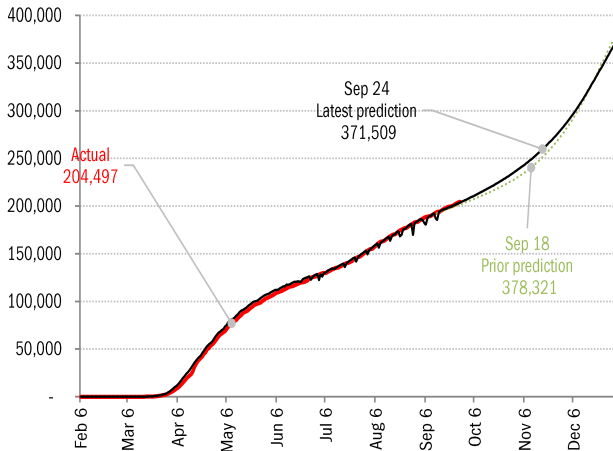


For this day, versus all model mean predictions

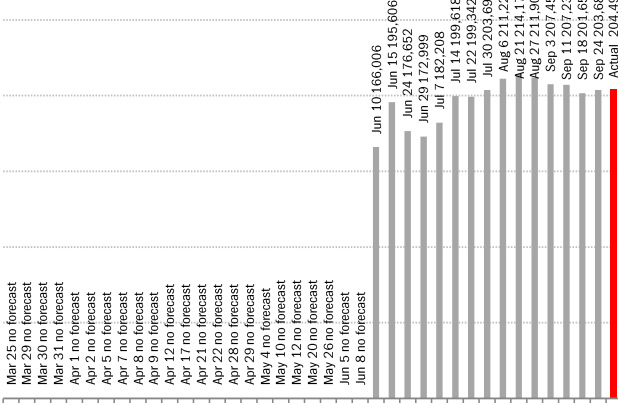


## Cumulative fatalities

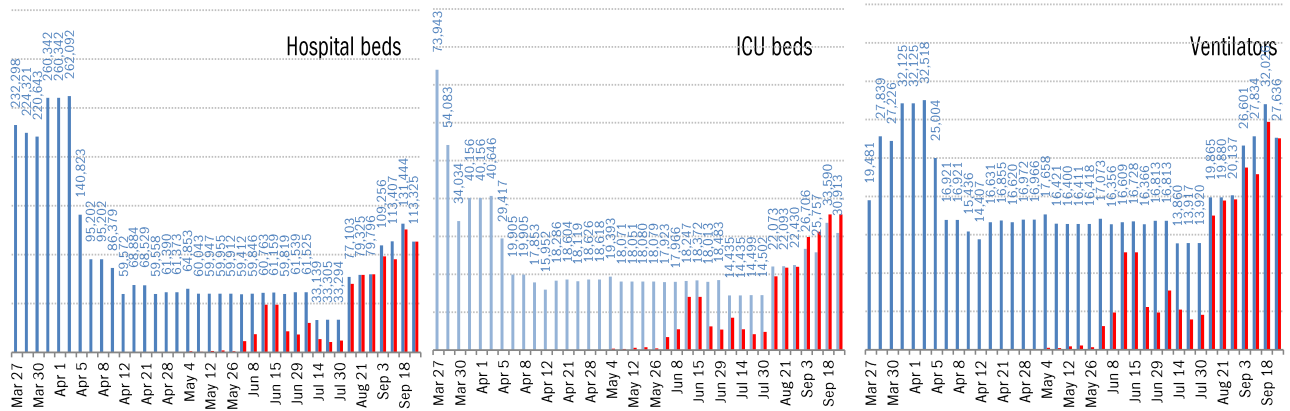
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

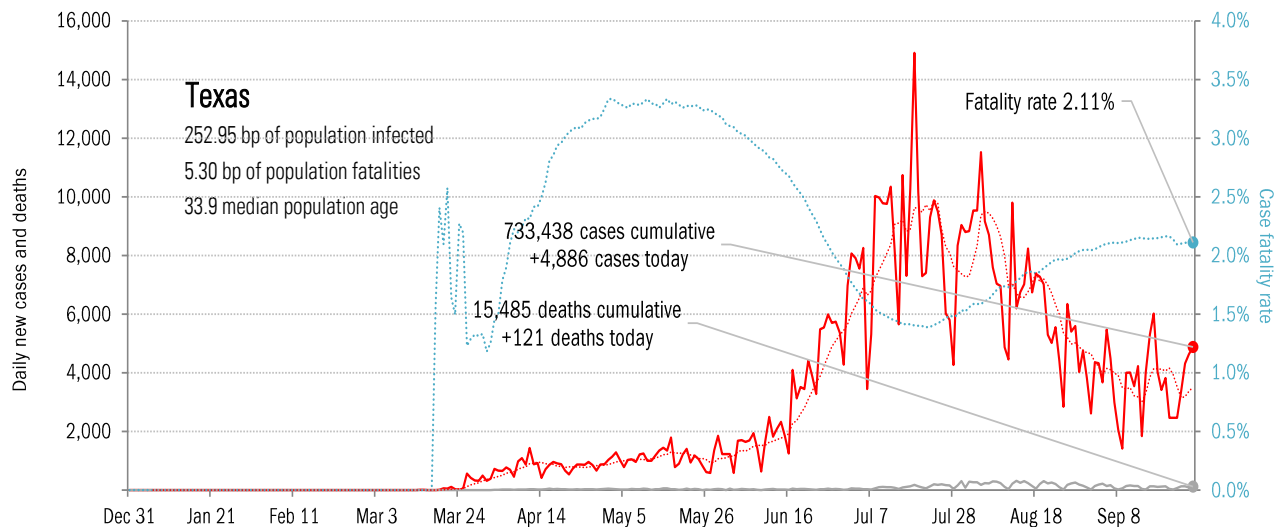
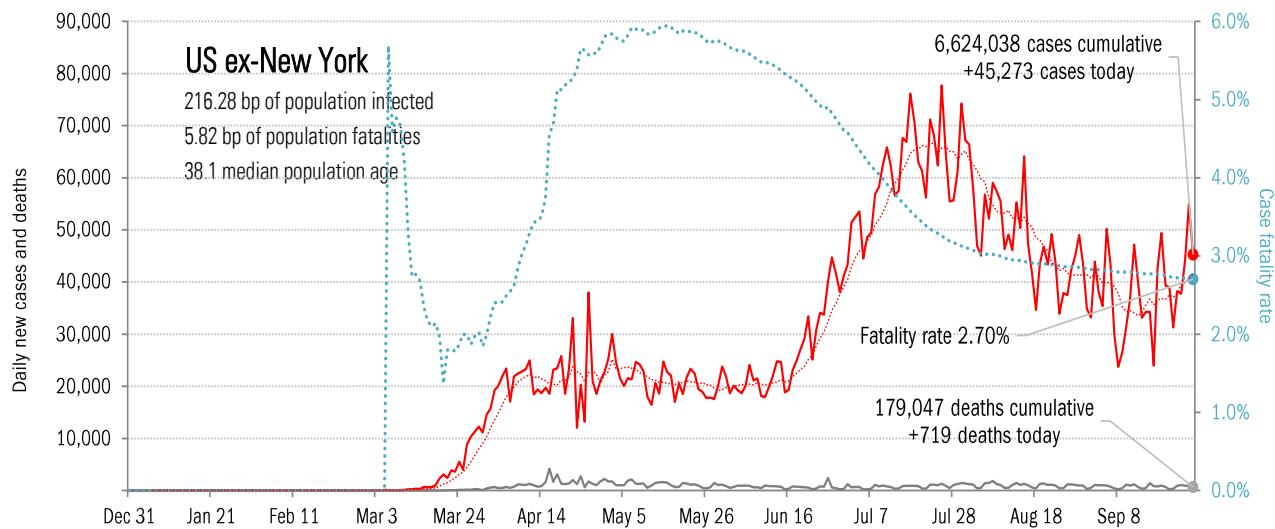
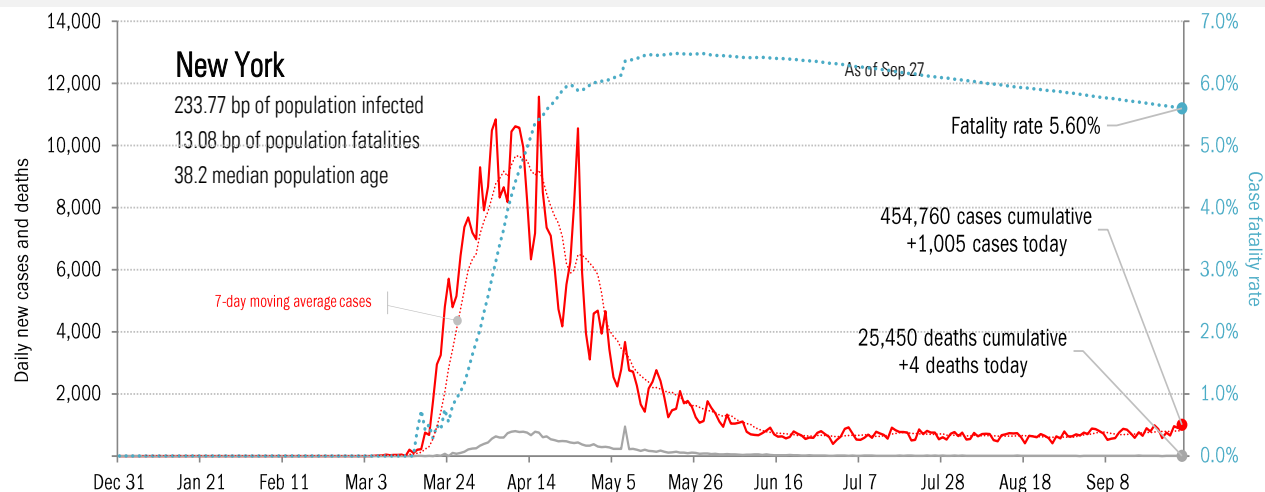


## Healthcare system stress, **peak** and **ultimate** estimated at each model revision



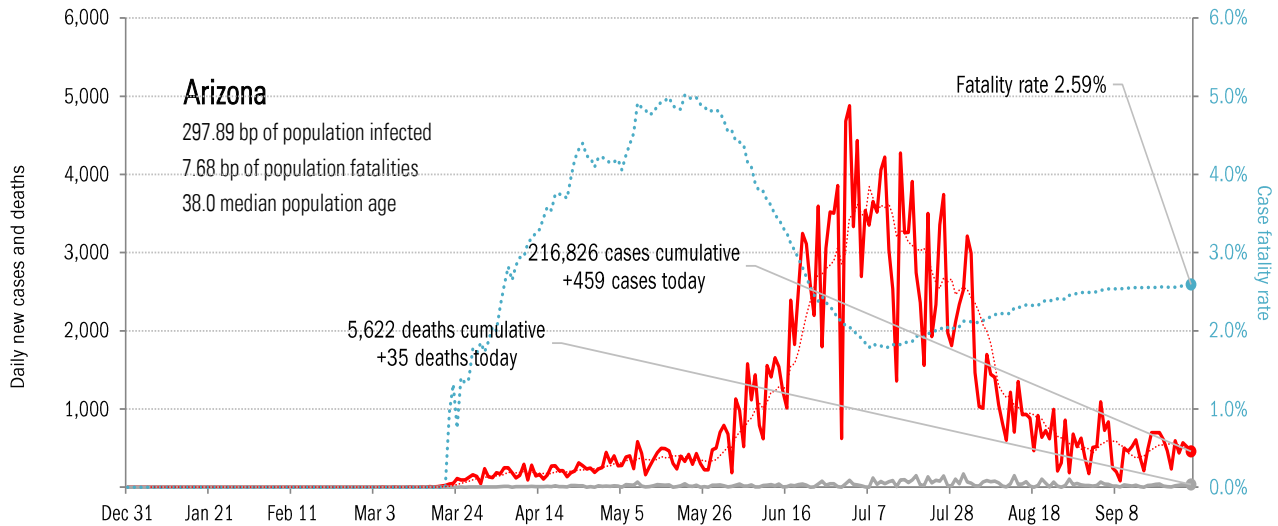
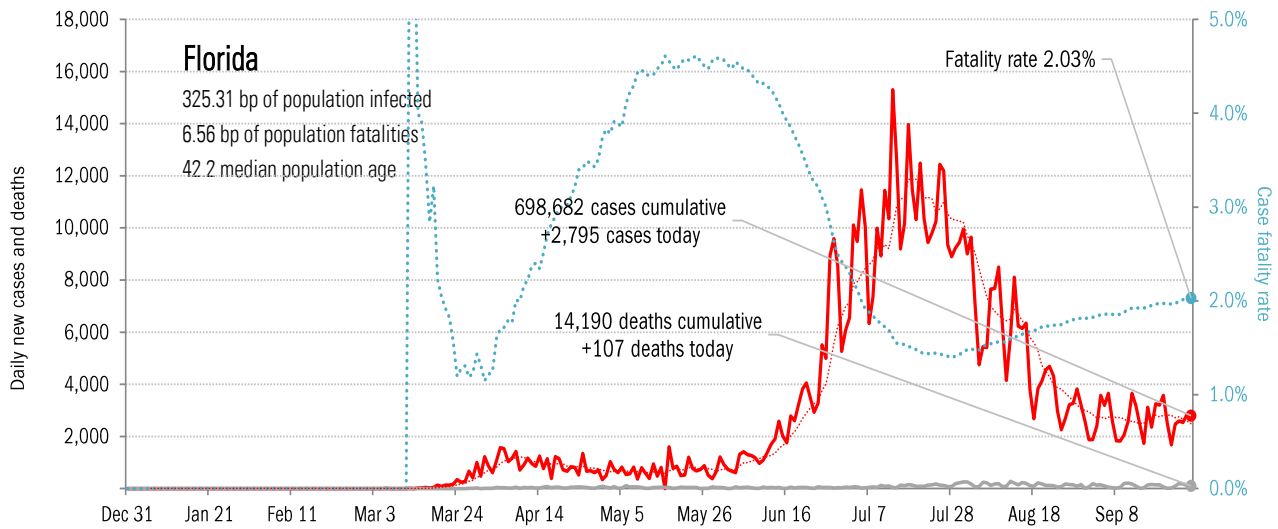
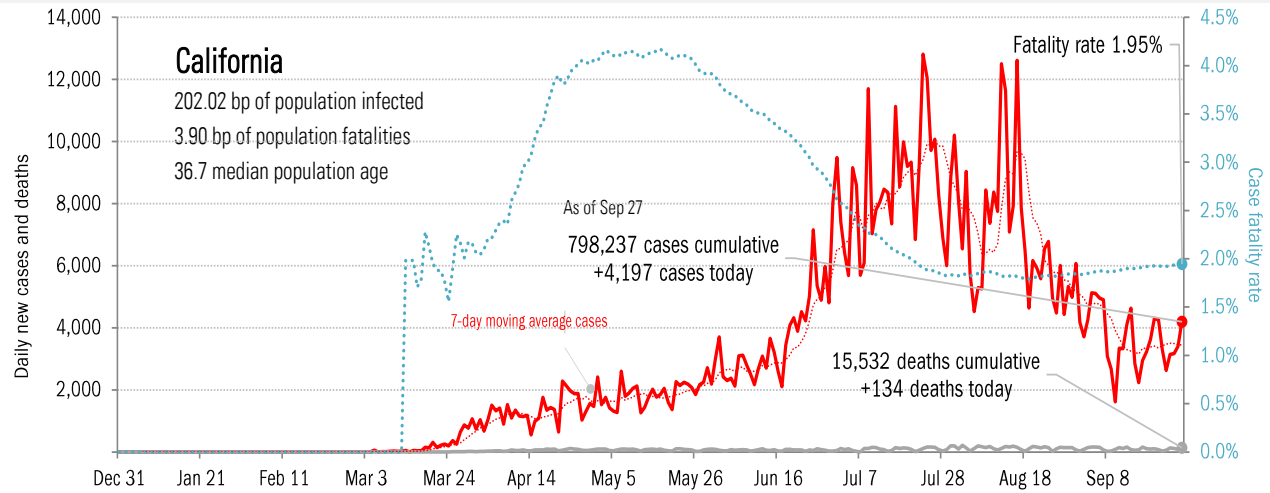
Source: [ECDC](#), [IHME](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



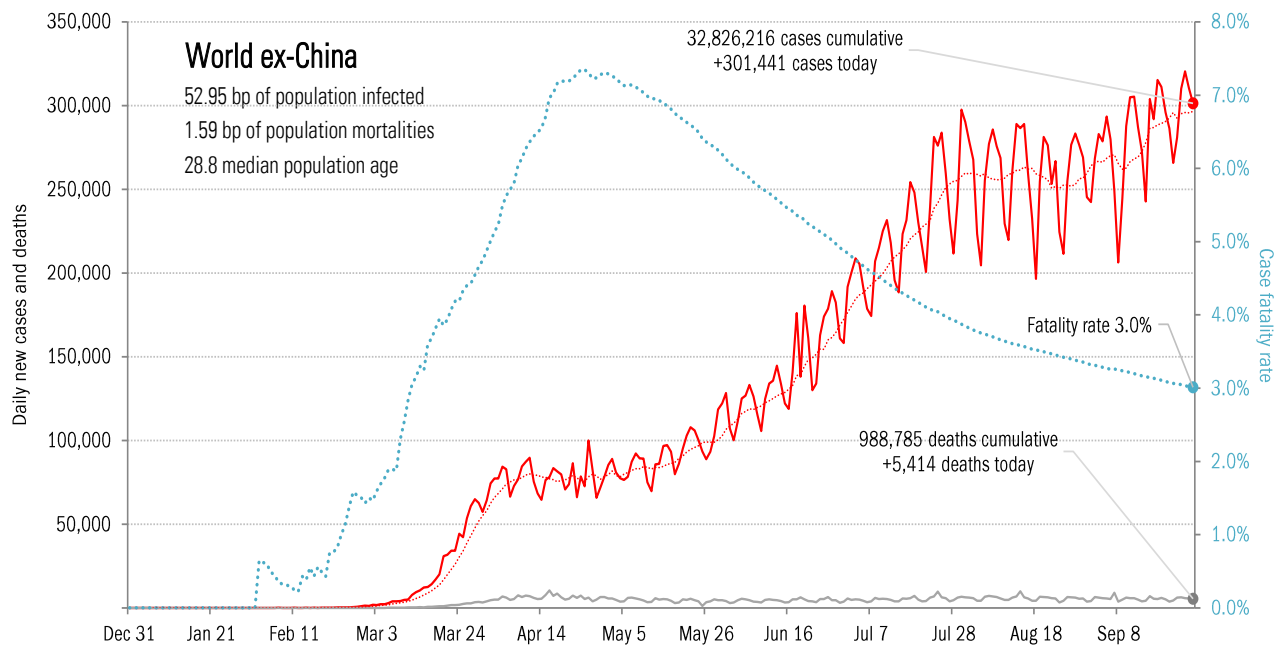
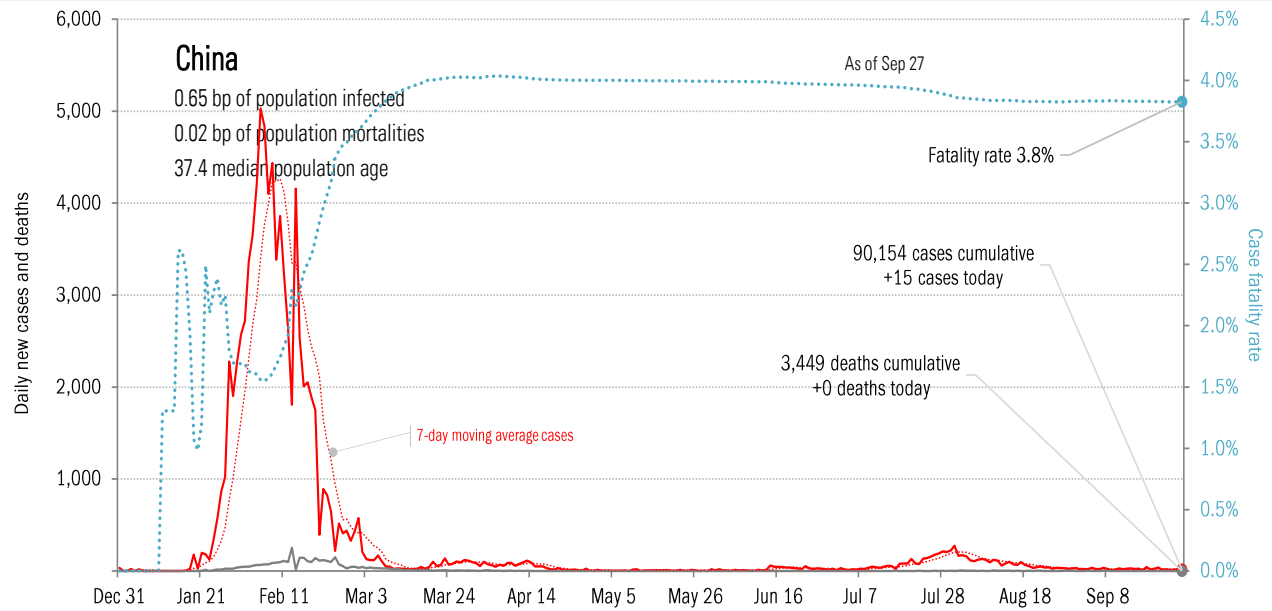
Source: [ECDC](#), TrendMacro calculations

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



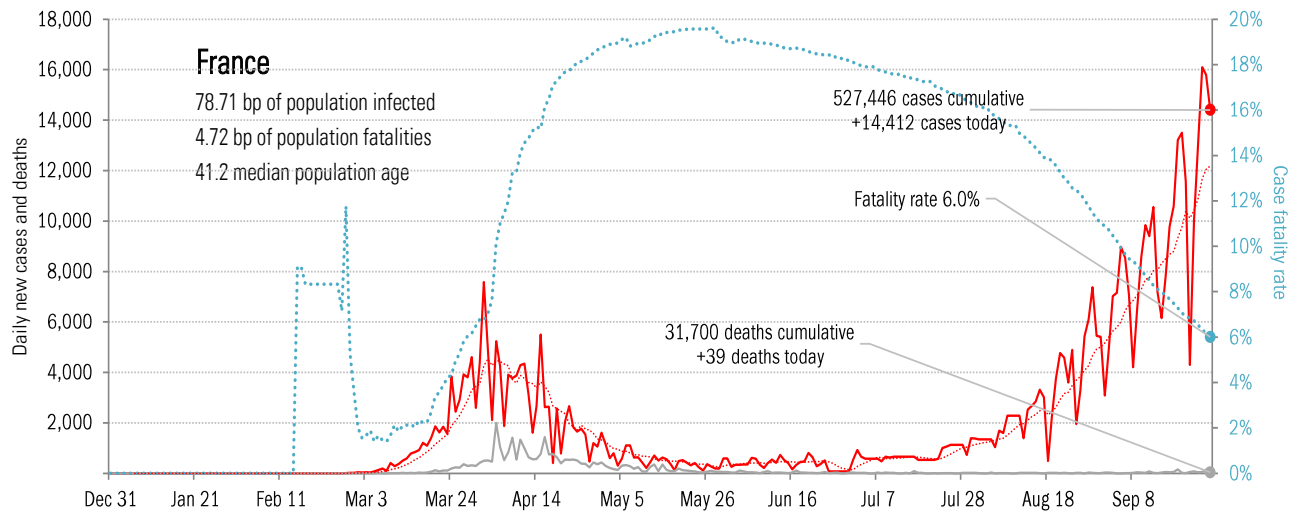
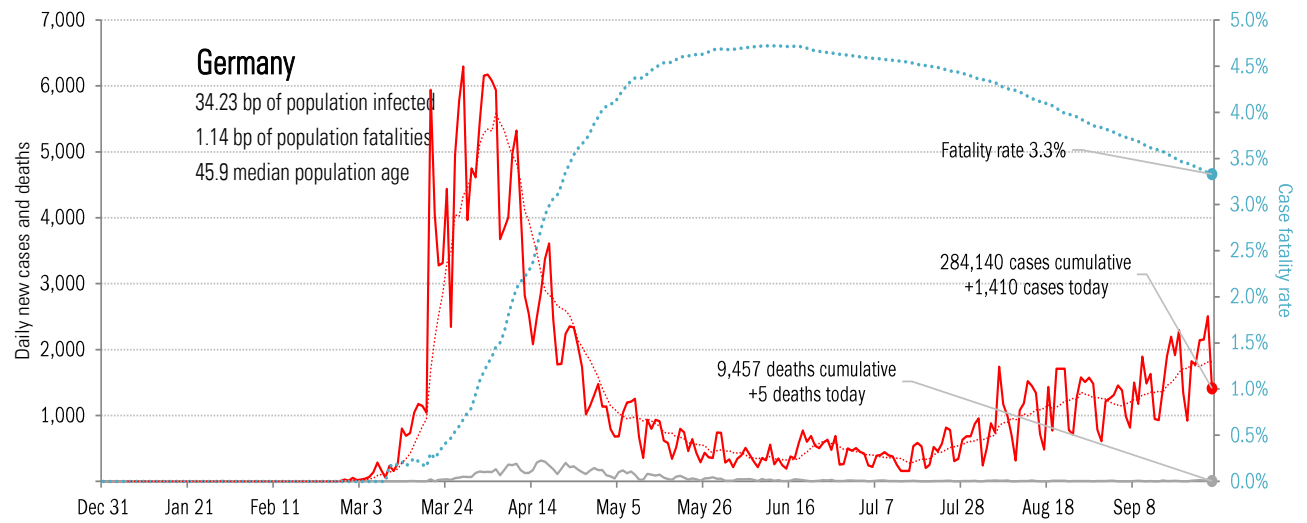
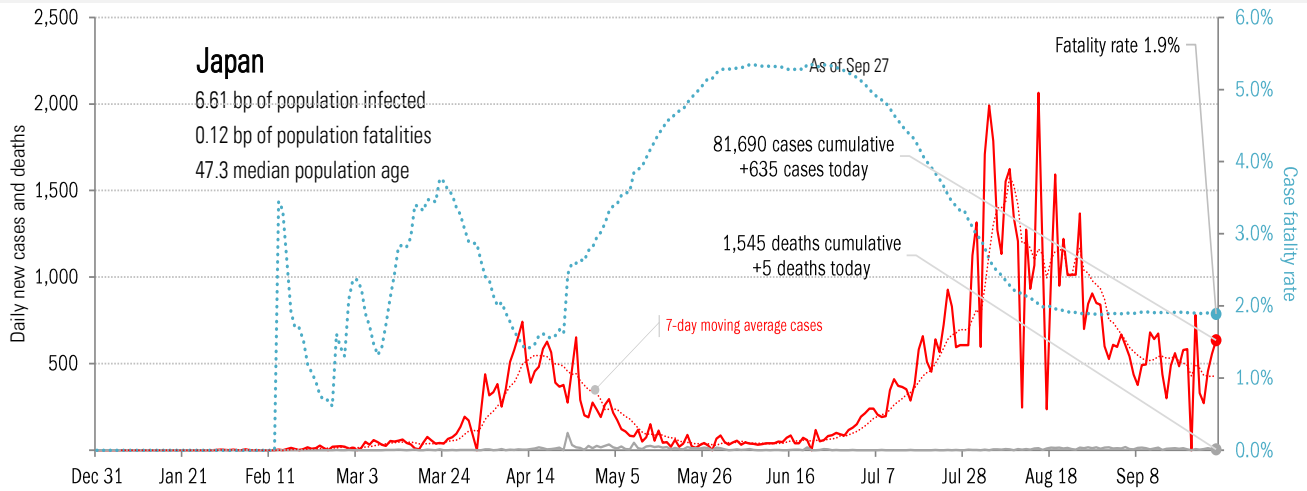
Source: [ECDC](#), TrendMacro calculations

# Patient zero... and then everyone else



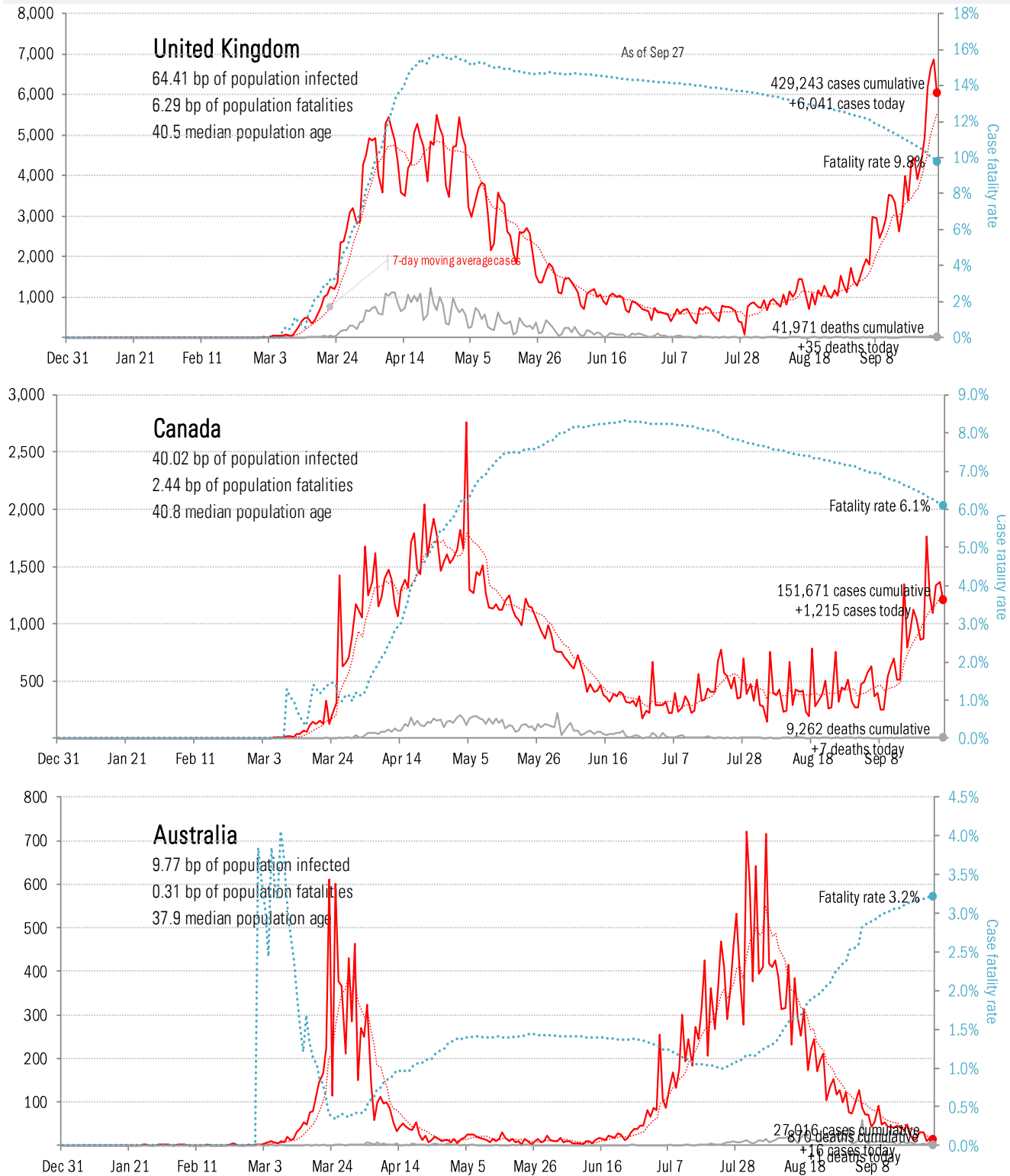
Source: [ECDC](#), TrendMacro calculations

# Impact in the largest economies



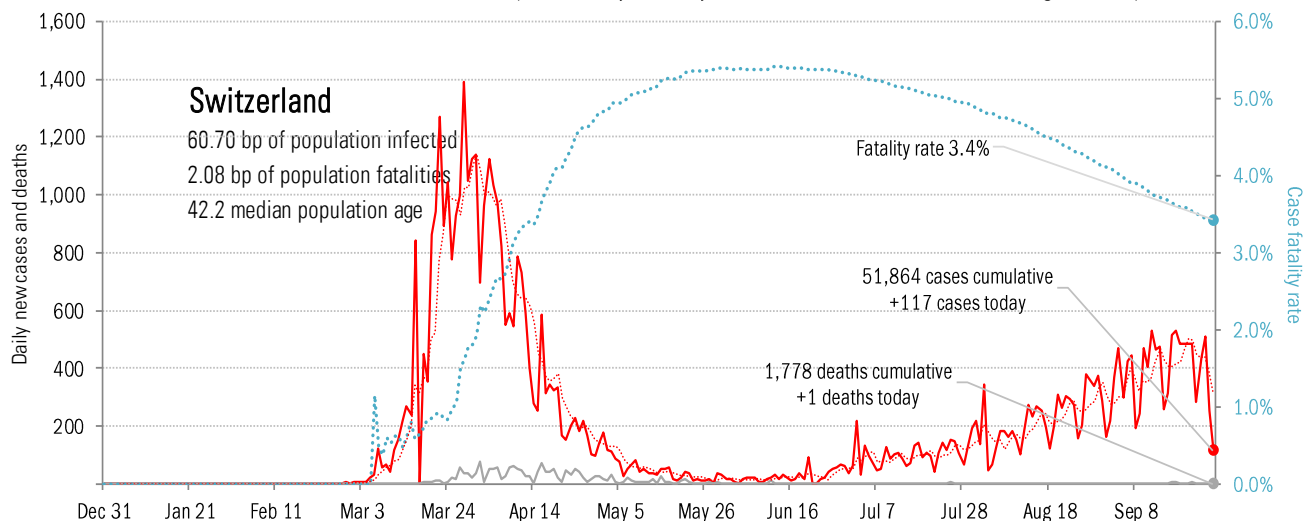
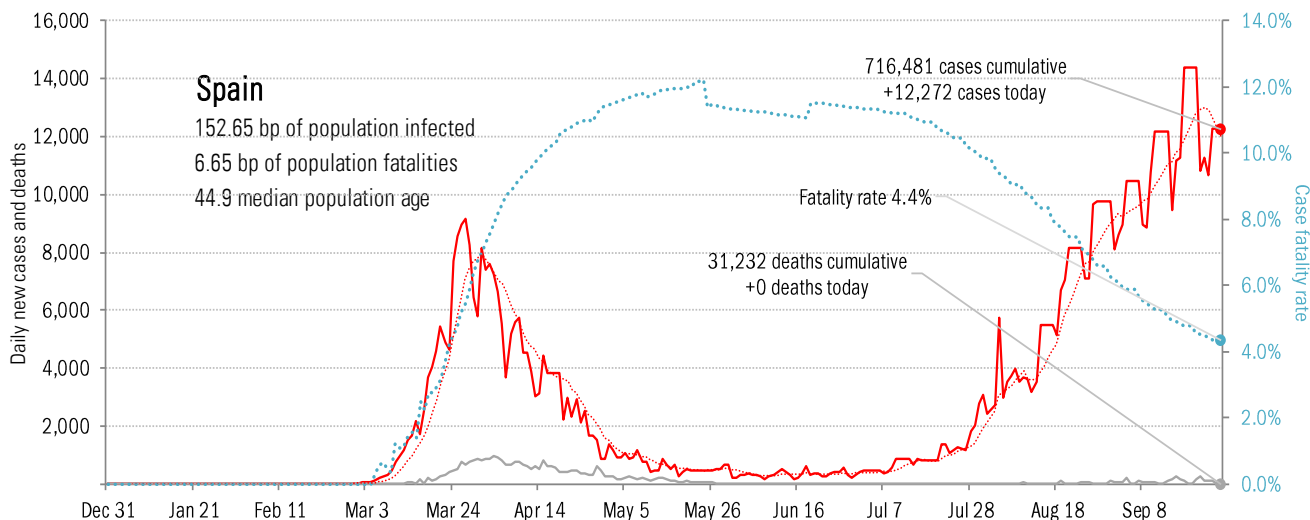
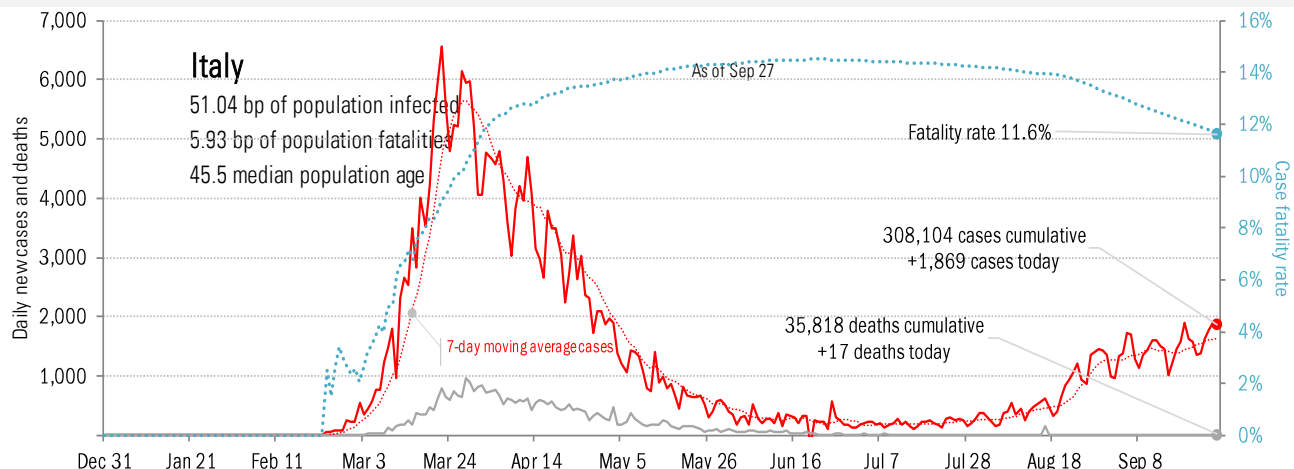
Source: [ECDC](#), TrendMacro calculations

# Impact in The Anglosphere



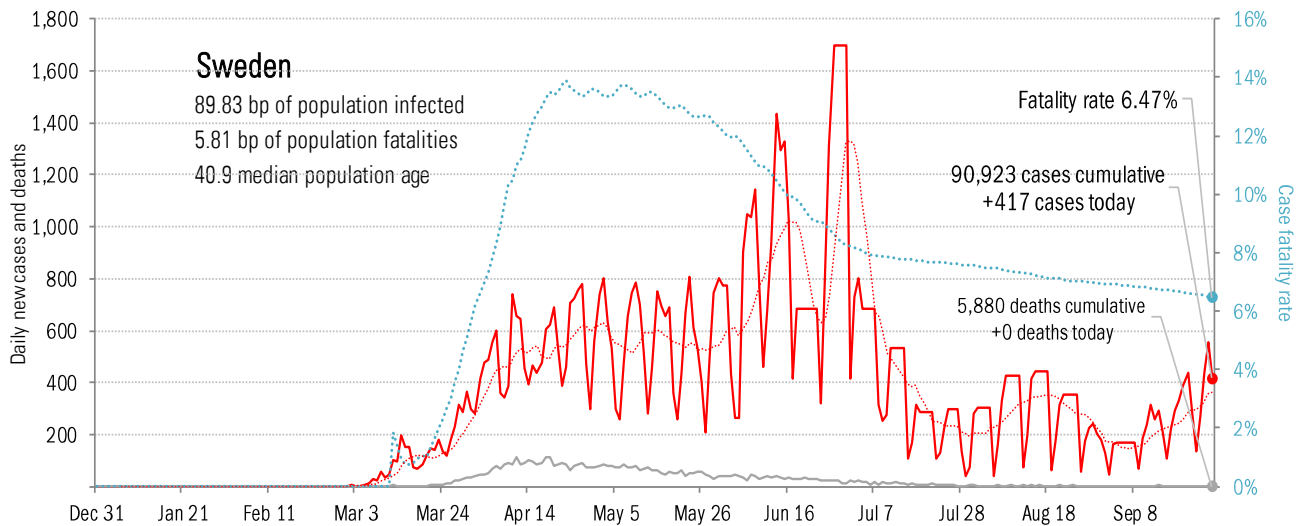
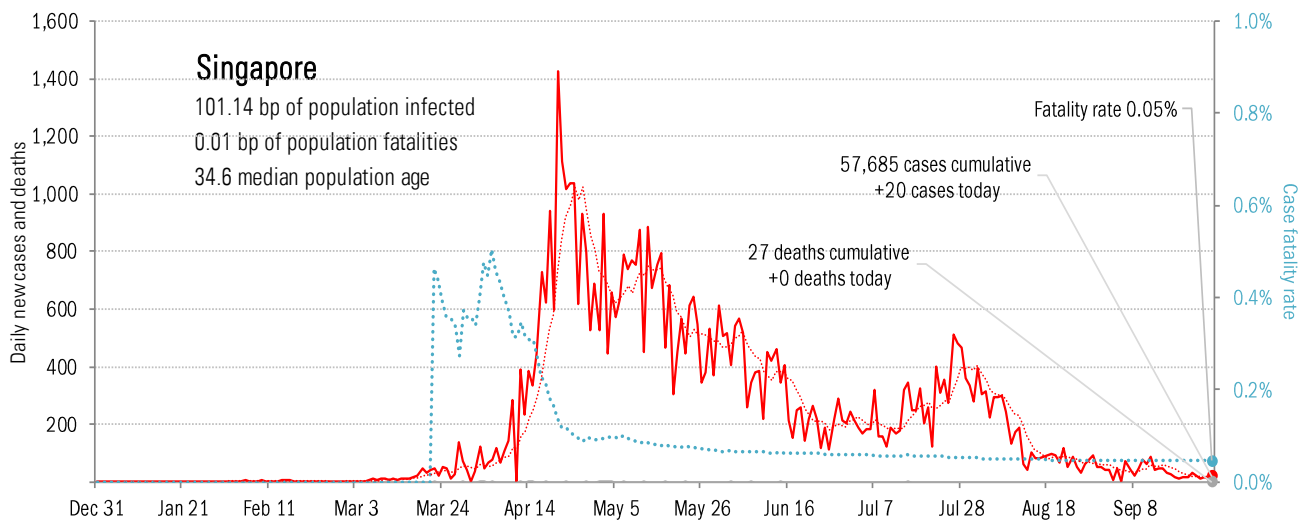
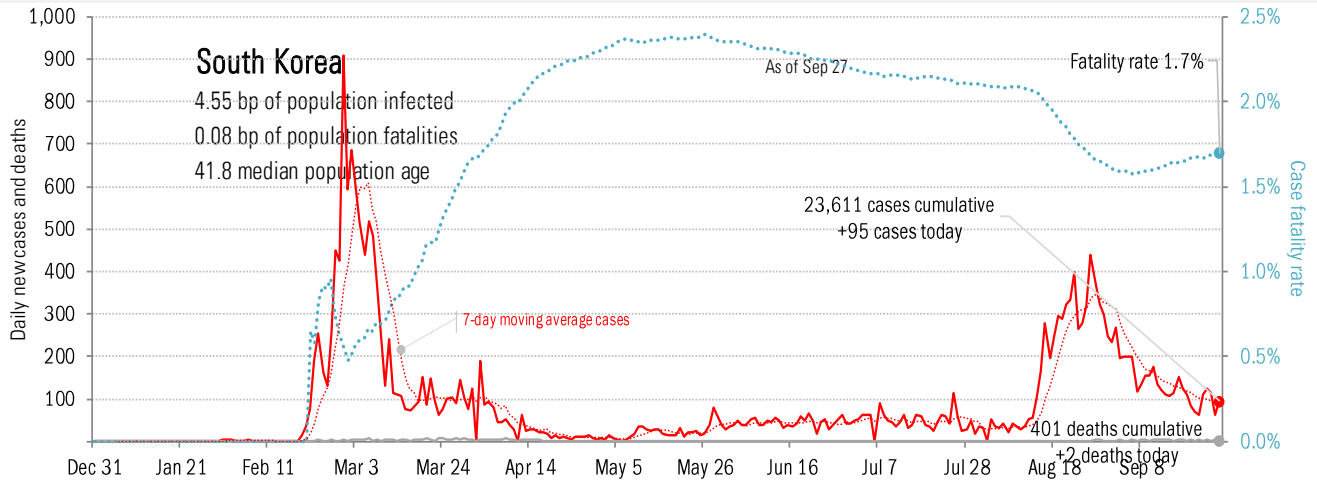
Source: [ECDC](#), TrendMacro calculations

# Impact in continental Europe



Source: [ECDC](#), TrendMacro calculations

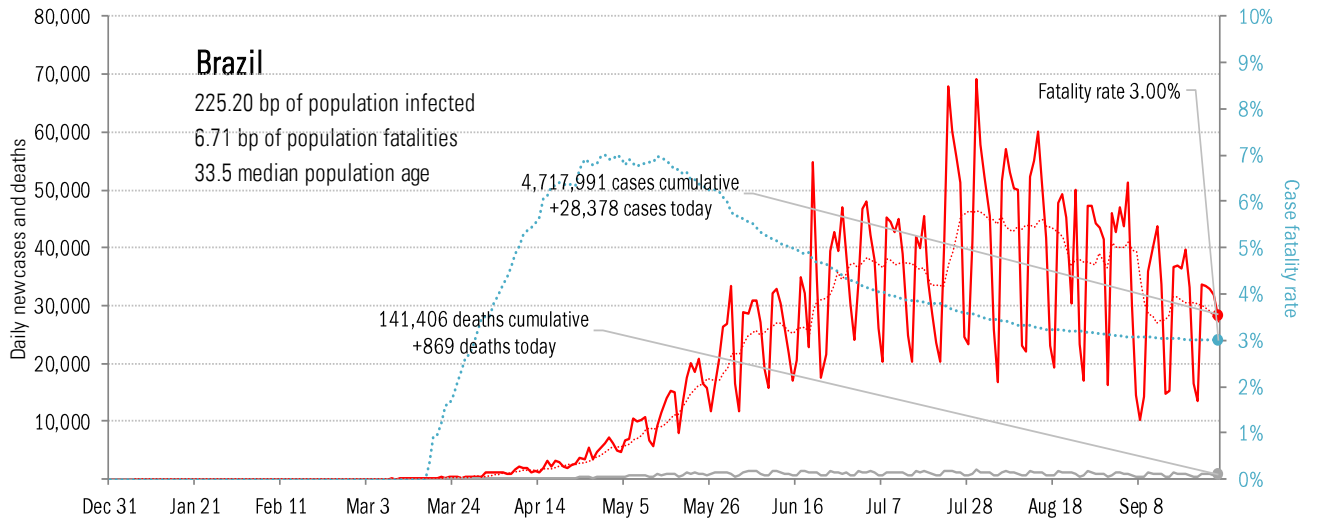
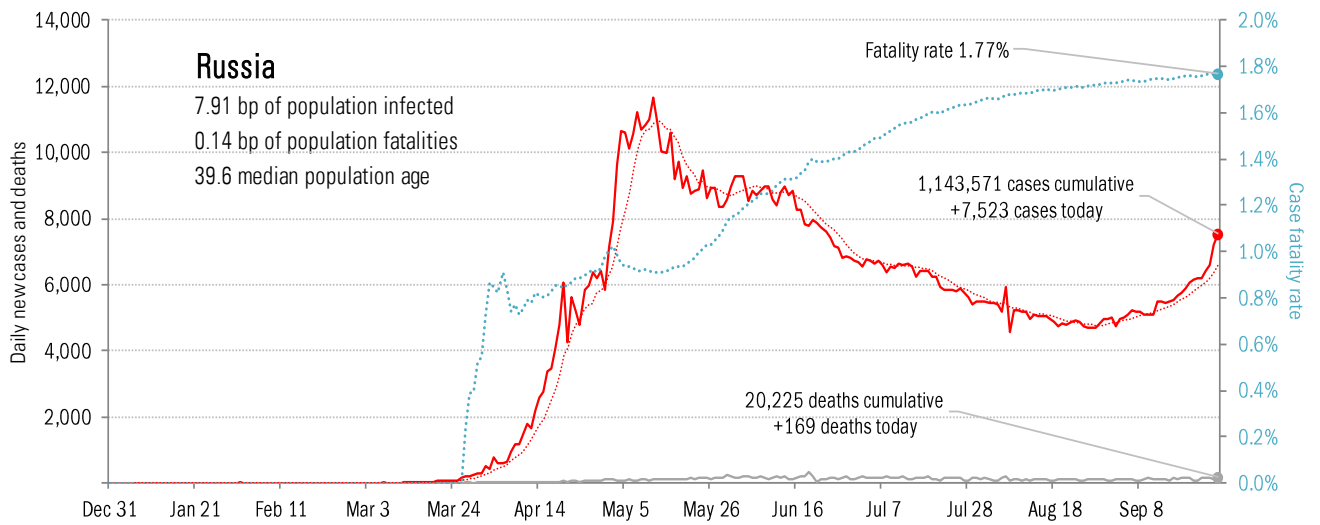
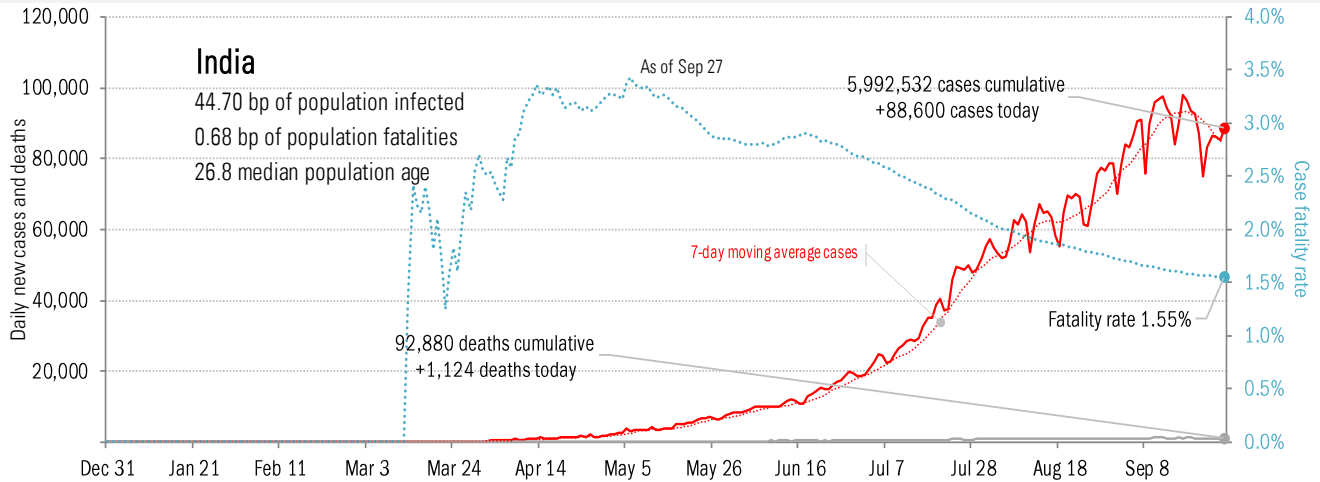
# Impact in other hot-spots



Source: [ECDC](#), TrendMacro calculations

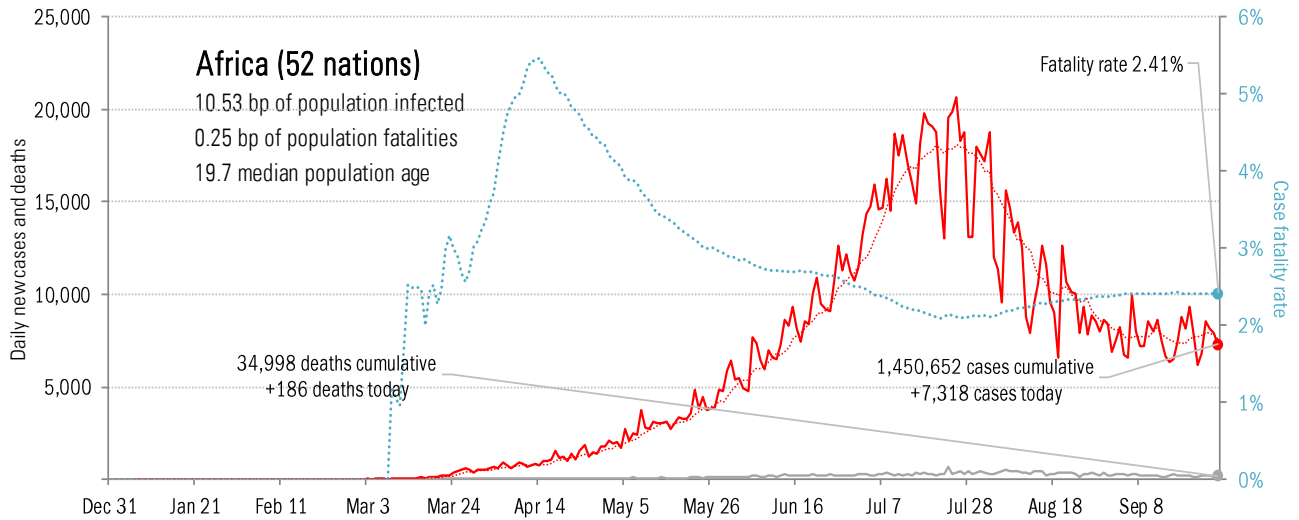
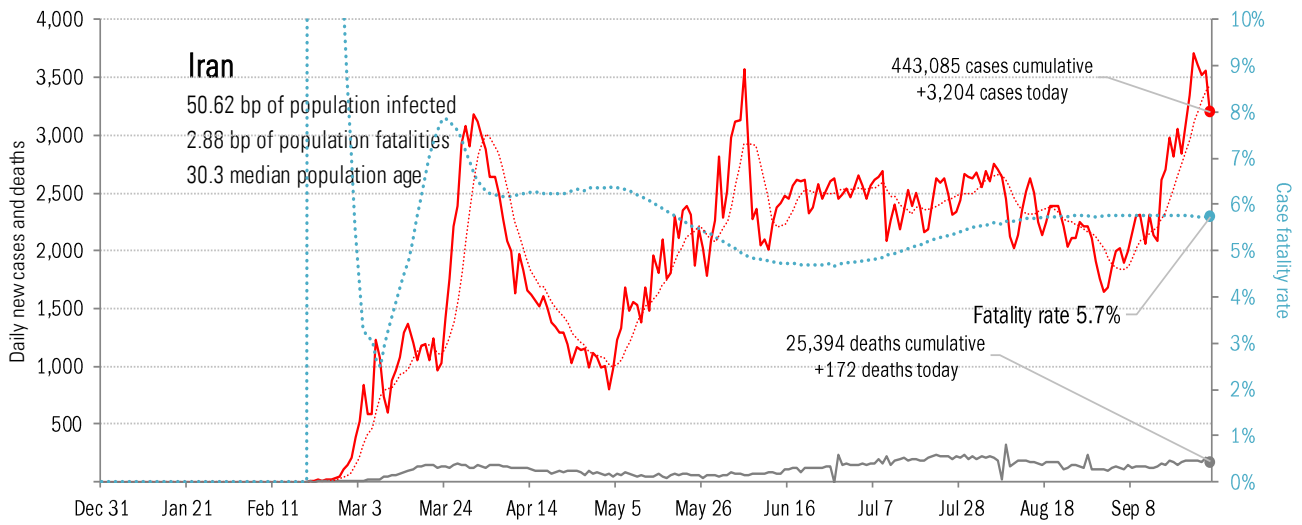
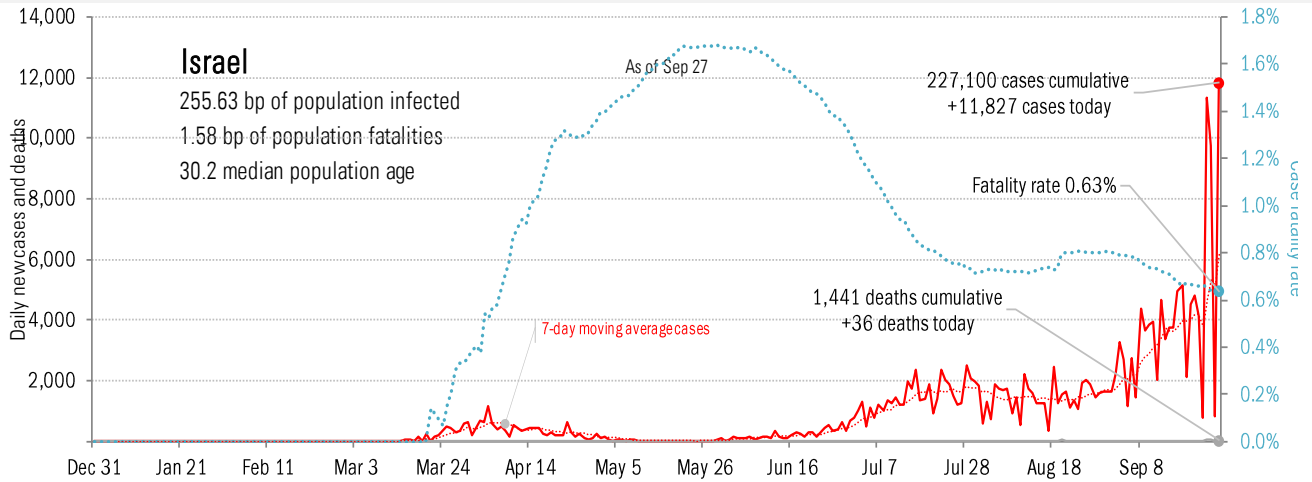


# Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

# Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations