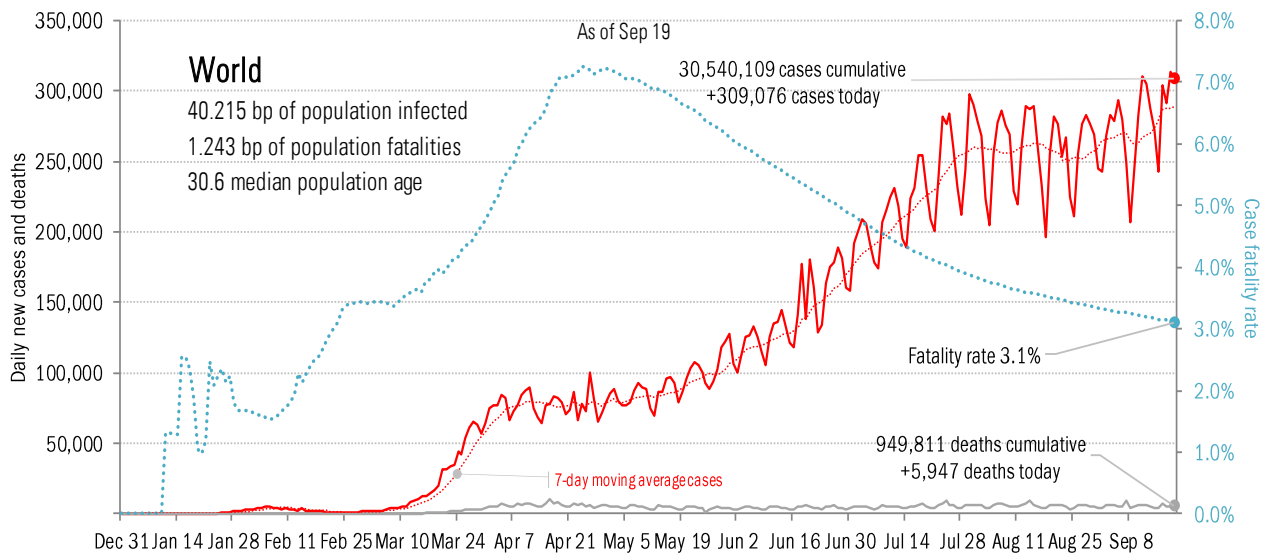
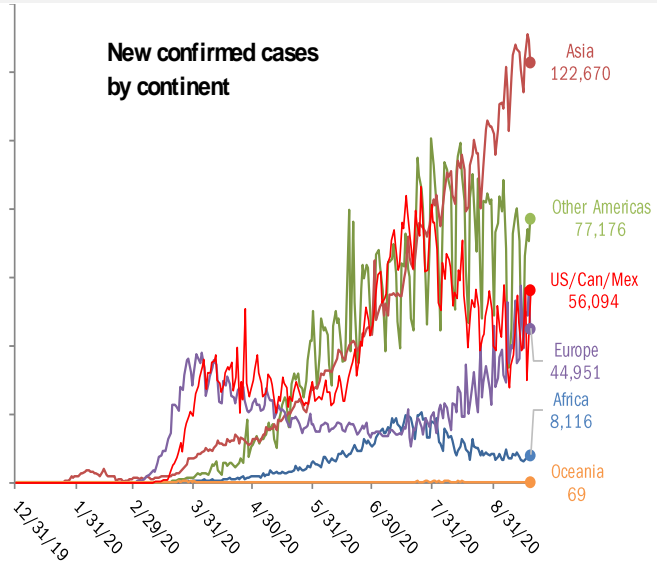


## Data Insights: Covid-2019 Monitor

Saturday, September 19, 2020

### The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+93,337	India	+1,247
US	+50,209	US	+956
Brazil	+39,797	Brazil	+858
France	+13,215	Mexico	+624
Argentina	+12,701	Argentina	+262
Colombia	+6,526	Colombia	+185
Peru	+6,314	France	+154
Russia	+5,905	Iran	+144
Mexico	+4,841	Peru	+137
UK	+4,322	Russia	+134
<b>+237,167</b>		<b>+4,701</b>	
World +309,076		World +5,947	
Top ten 77%		Top ten 79%	



Source: [ECDC](#), 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

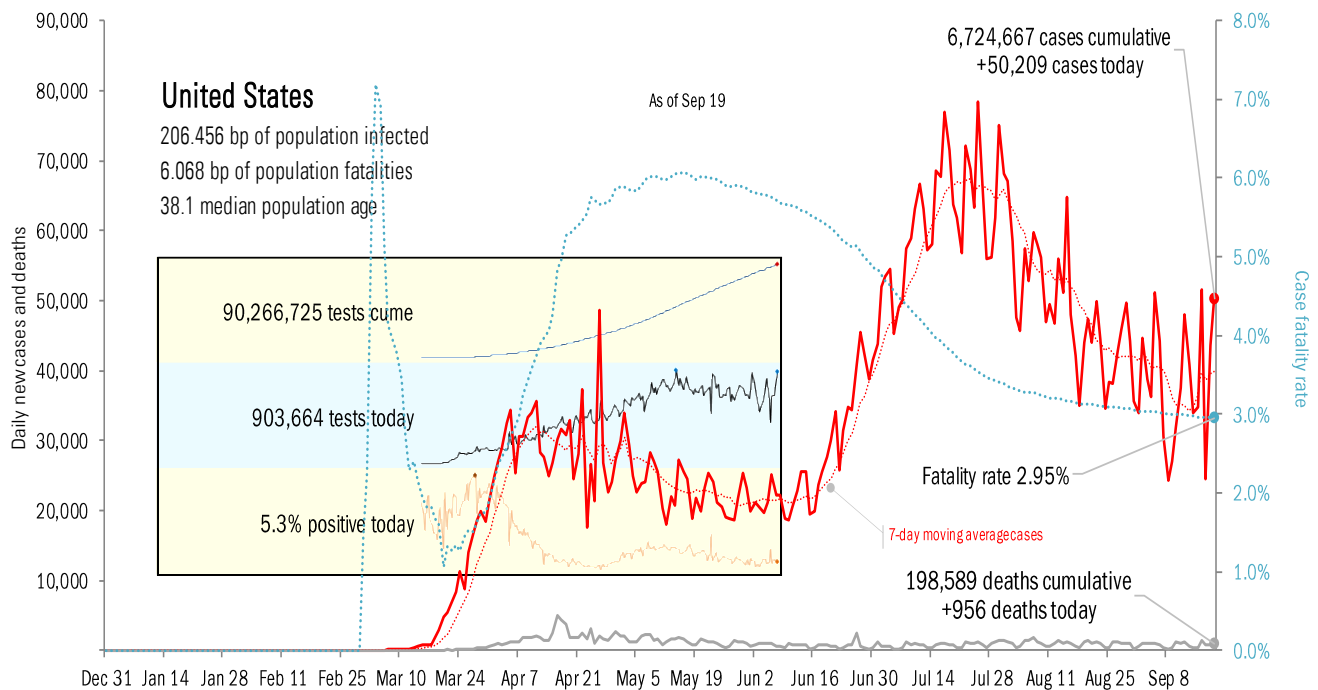
National and state-by-state data do not line up because of different sources

## The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
CA	+3,630	FL	+140	FL	+190	CA	769,831	NY	25,423	NY	89,995
TX	+3,422	TX	+123	GA	+149	TX	682,241	NJ	16,061	FL	42,715
FL	+3,204	CA	+91	AL	+148	FL	677,660	CA	14,812	GA	27,203
WI	+2,580	GA	+63	TN	+84	NY	448,052	TX	14,713	NJ	23,096
TN	+2,357	AZ	+42	VA	+71	GA	302,737	FL	13,387	AZ	21,865
IL	+2,223	TN	+32	MD	+62	IL	272,525	MA	9,269	VA	17,737
GA	+1,834	LA	+29	OH	+62	AZ	212,942	IL	8,647	AL	16,227
MO	+1,795	VA	+29	SC	+58	NJ	198,848	PA	7,934	MD	15,070
NC	+1,443	CH	+28	OK	+57	NC	191,019	MI	6,954	CH	14,687
KS	+1,415	AL	+27	KS	+55	TN	180,497	GA	6,537	MA	12,514
<b>+23,903</b>		<b>+604</b>		<b>+936</b>		<b>3,936,352</b>		<b>123,737</b>		<b>281,109</b>	
All states	+47,486	All states	+901	All states	+1,423	All states	6,688,827	All states	190,566	All states	393,596
Top ten	50%	Top ten	67%	Top ten	66%	Top ten	59%	Top ten	65%	Top ten	71%

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
MS	-701	MS	-24	CT	-90	TX	+5,845
TX	-625	CA	-15	AR	-56	TN	+1,474
AZ	-471	MI	-13	VA	-32	WI	+1,282
SC	-452	FL	-7	OK	-31	CH	+1,168
MI	-202	PR	-7	KY	-23	OK	+991



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

## Recommended reading

### [The Hospital Lobbyists Behind Cuomo's Nursing Home Scandal](#)

Bill Hammond  
*Wall Street Journal*  
September 18, 2020

### [Michigan group surpasses signatures needed for petition against Gov. Whitmer's emergency powers](#)

Grant Hermes  
*ClickOn Detroit*  
September 14, 2020

### [How Media Fear-Mongers Misrepresent COVID-19](#)

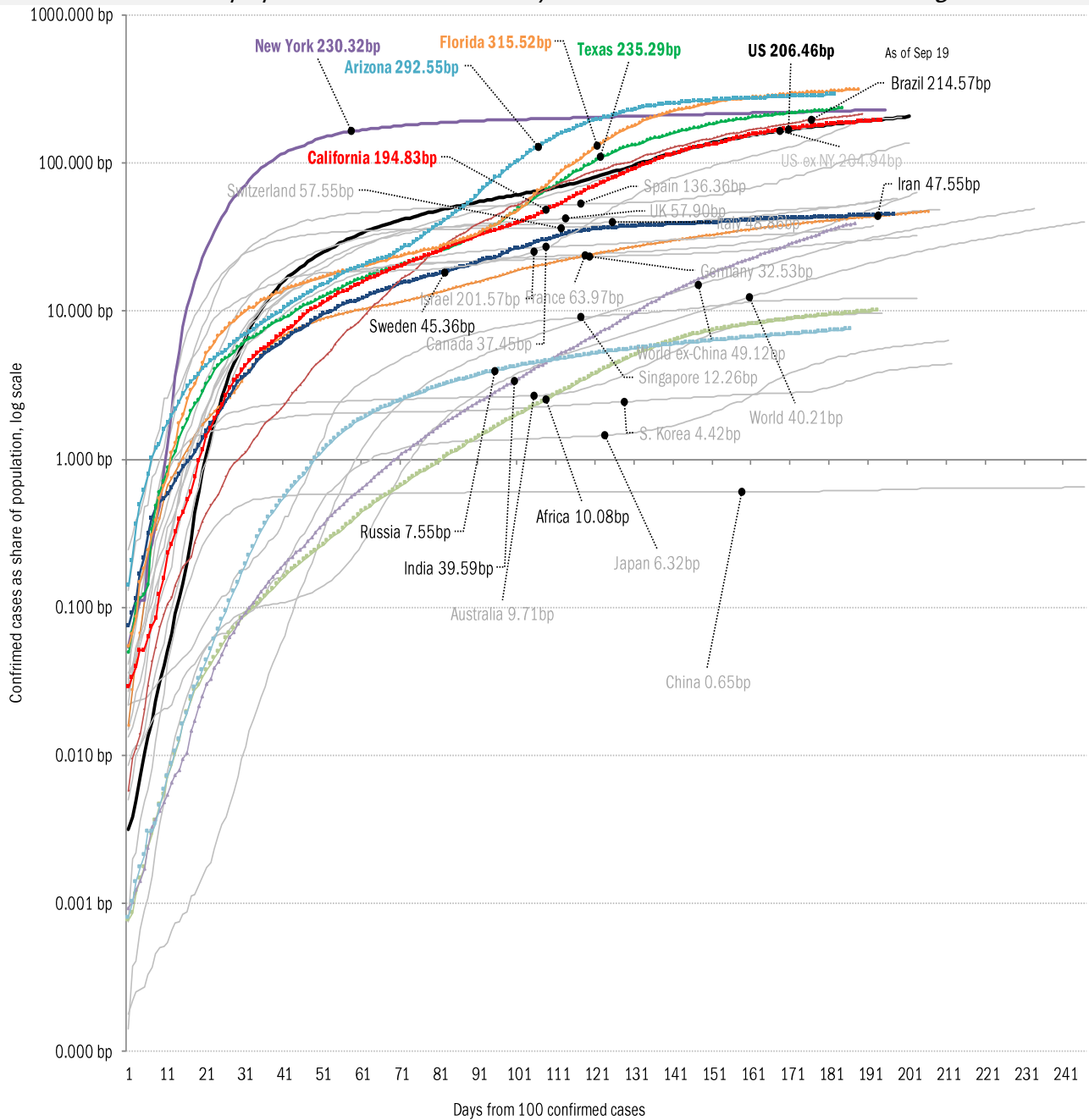
John Hartung  
*American Spectator*  
September 18, 2020

## Meme of day



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

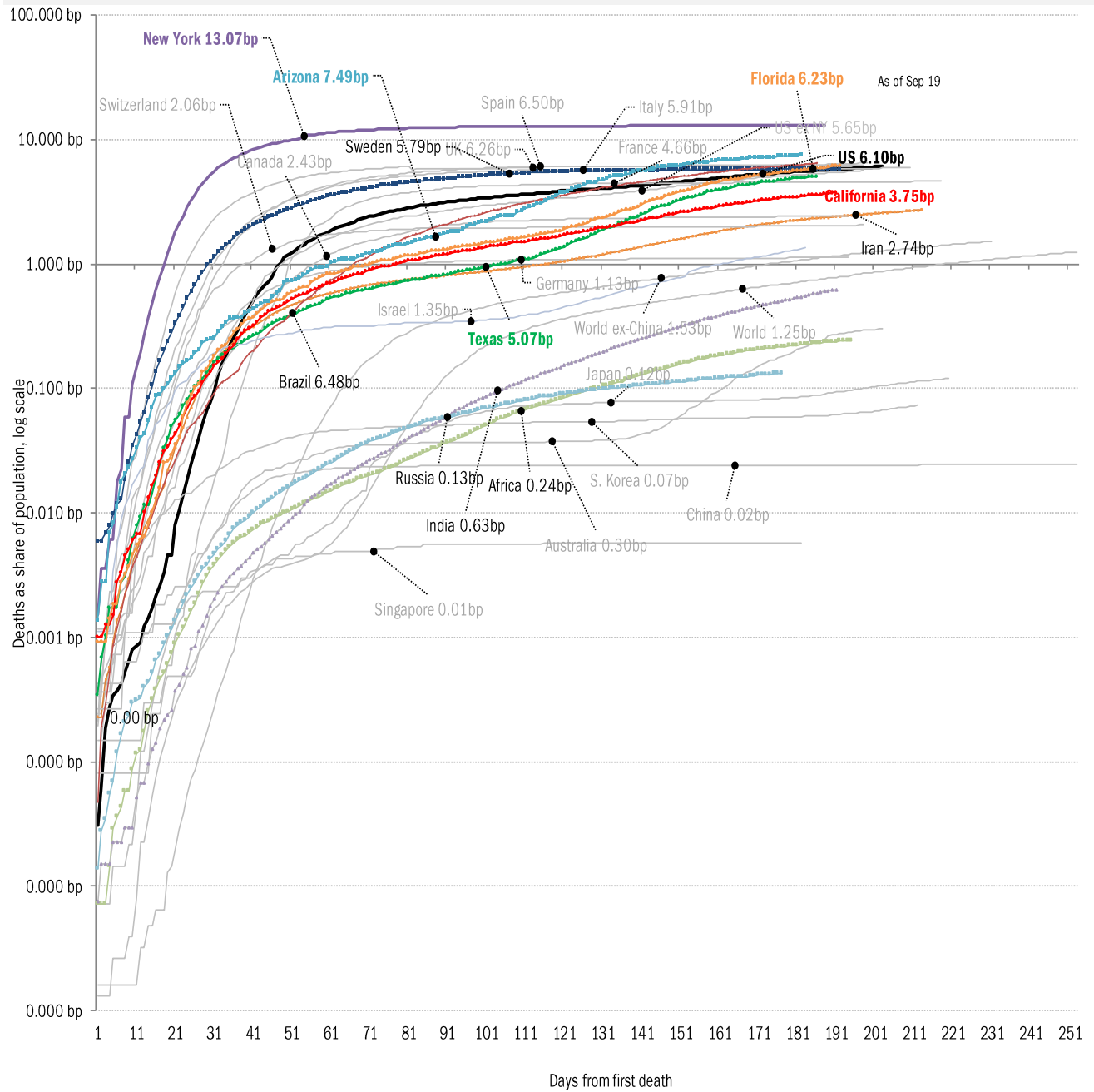
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



Source: [ECDC](#), TrendMacro calculations

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

## Share of deceased population from day of first fatality

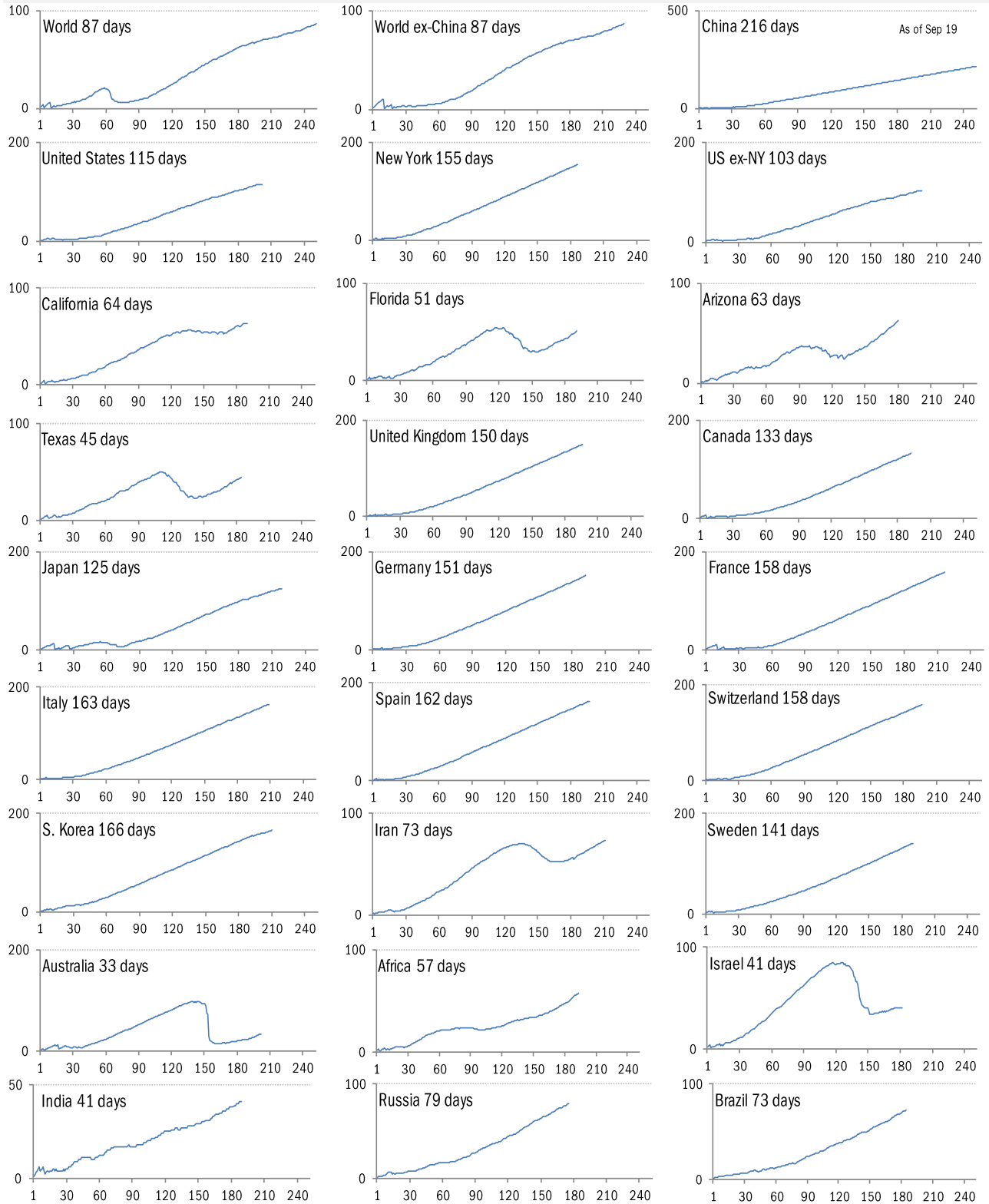


Source: [ECDC](#), TrendMacro calculations

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

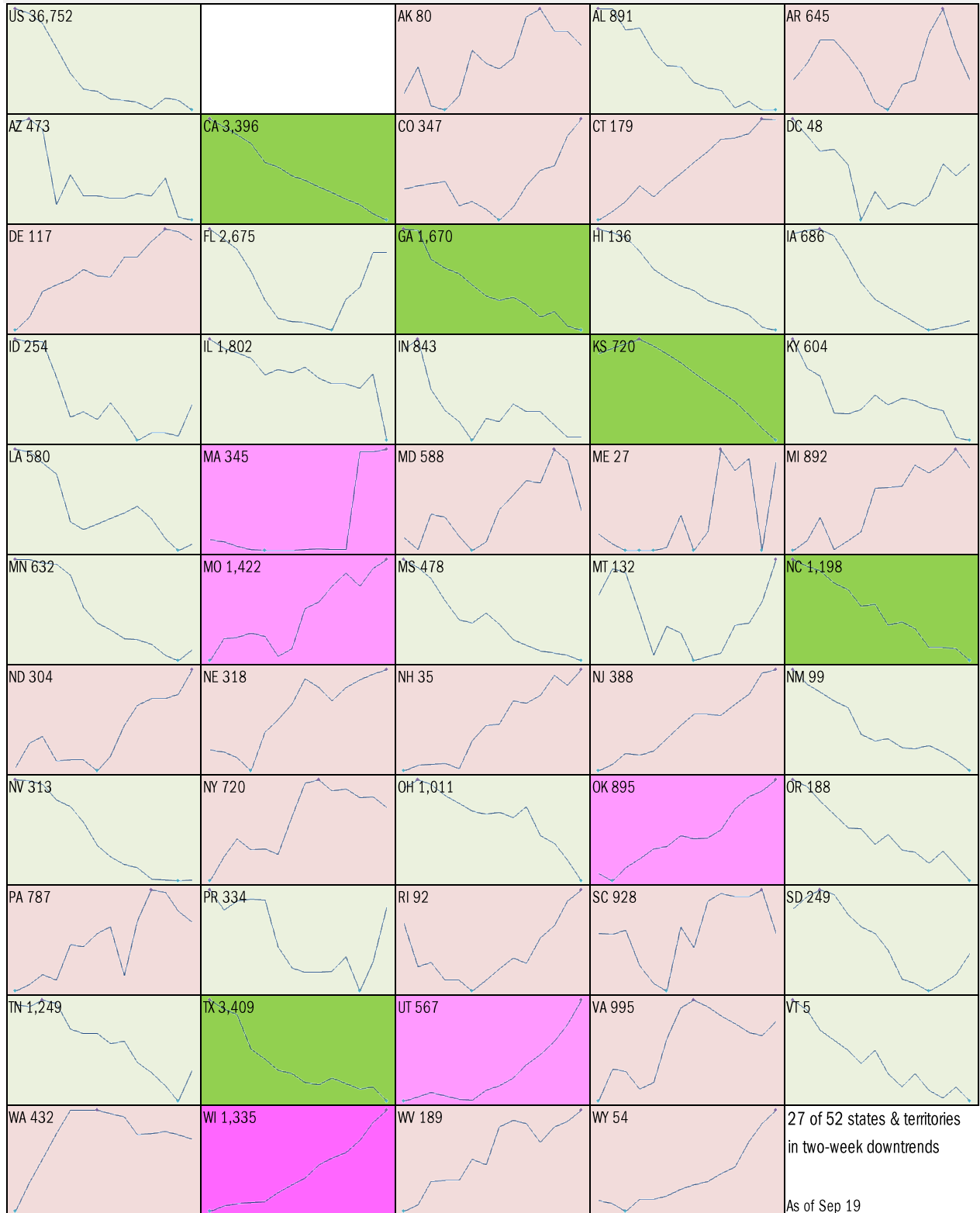
Vertical: days to double deaths Horizontal: days from first death

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



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

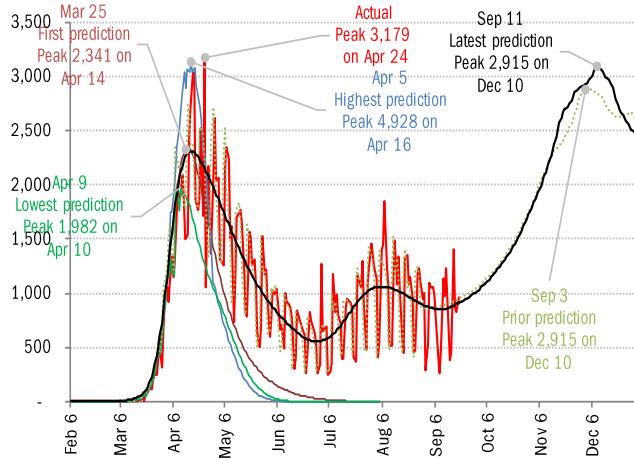


# Reality-checking the models: actuals versus [IHME](#) predictions

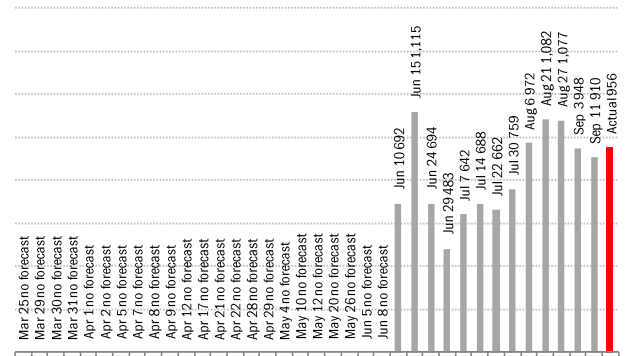
## New daily fatalities

As of Sep 19

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

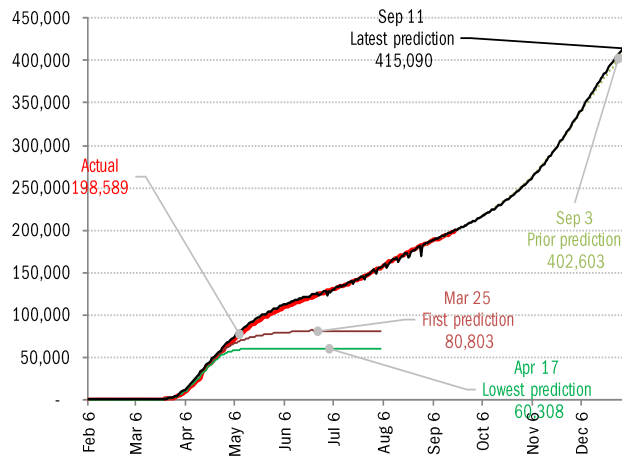


For this day, versus all model mean predictions

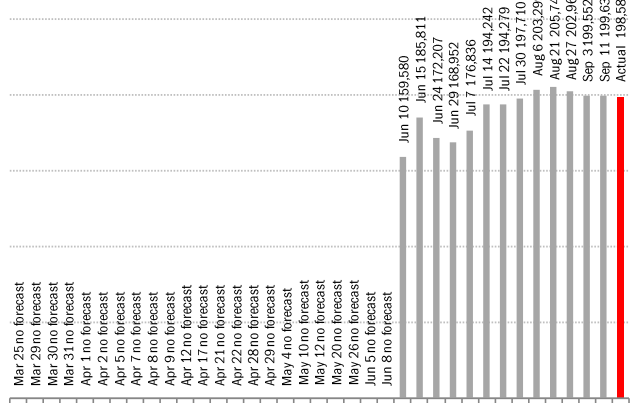


## Cumulative fatalities

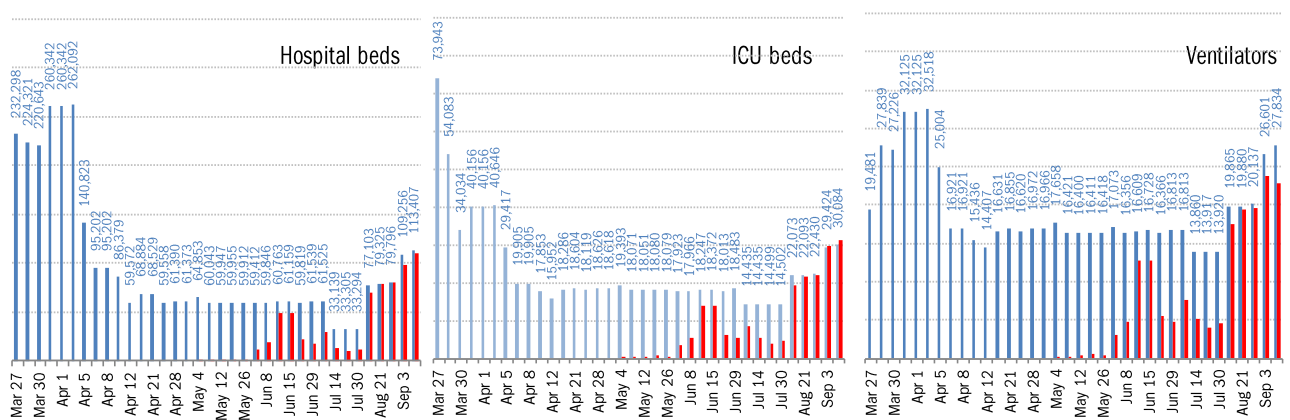
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

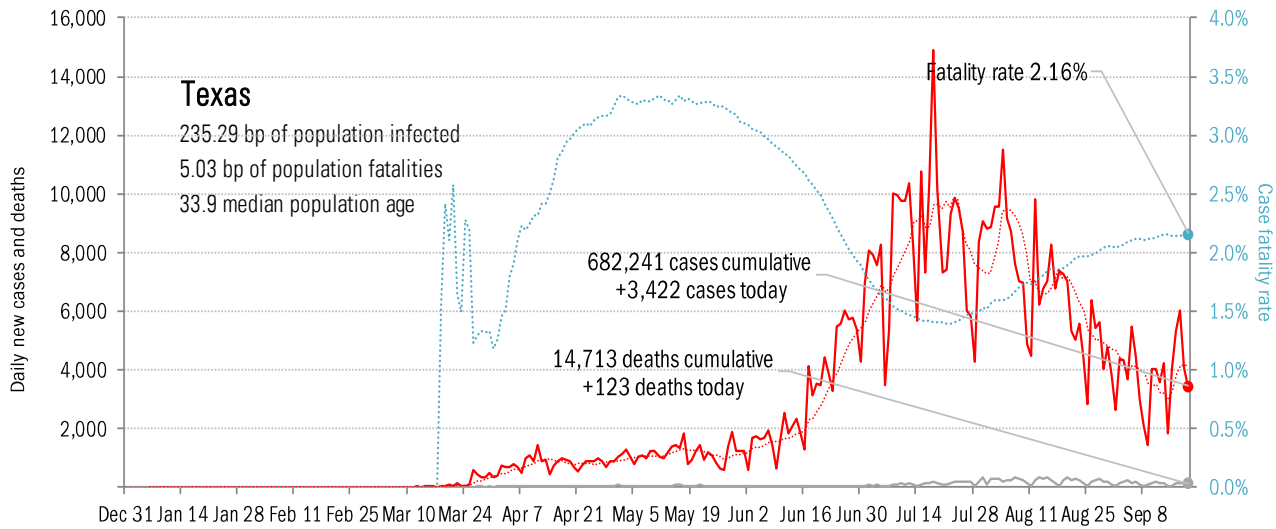
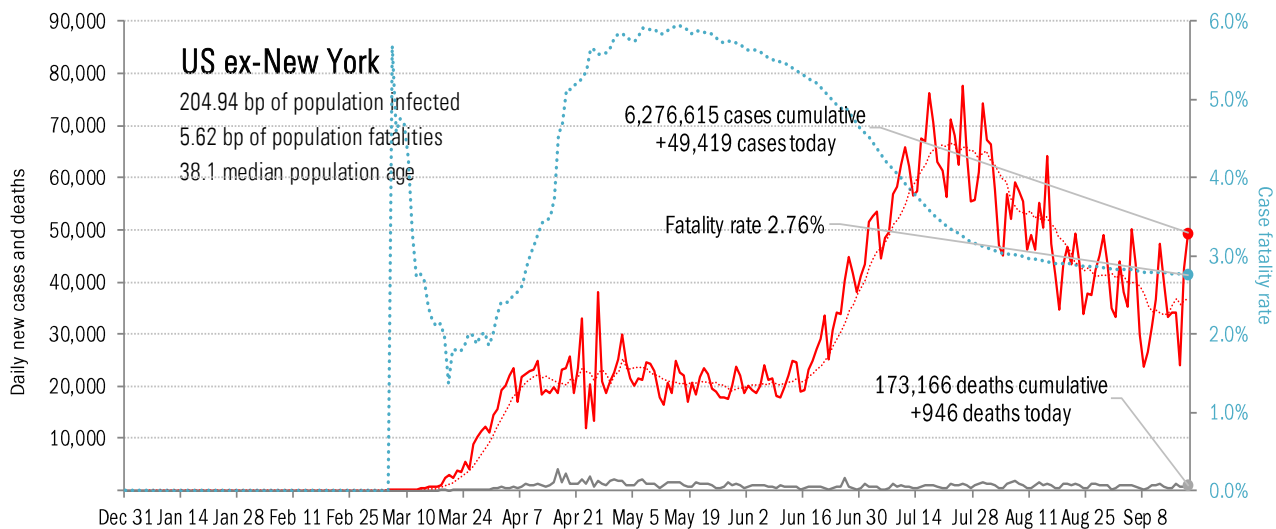
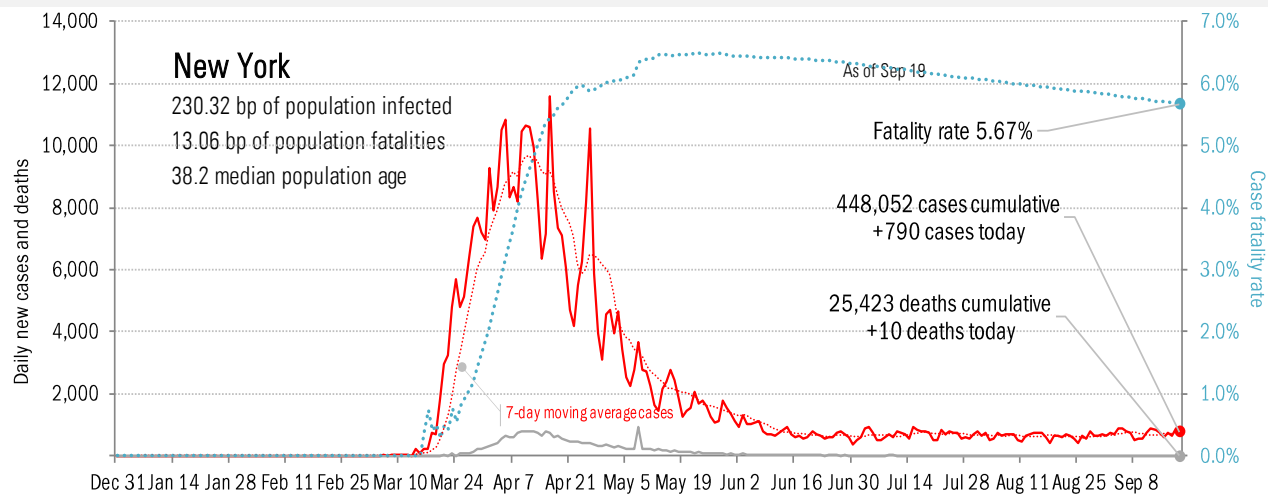


## Healthcare system stress, peak and ultimate estimated at each model revision



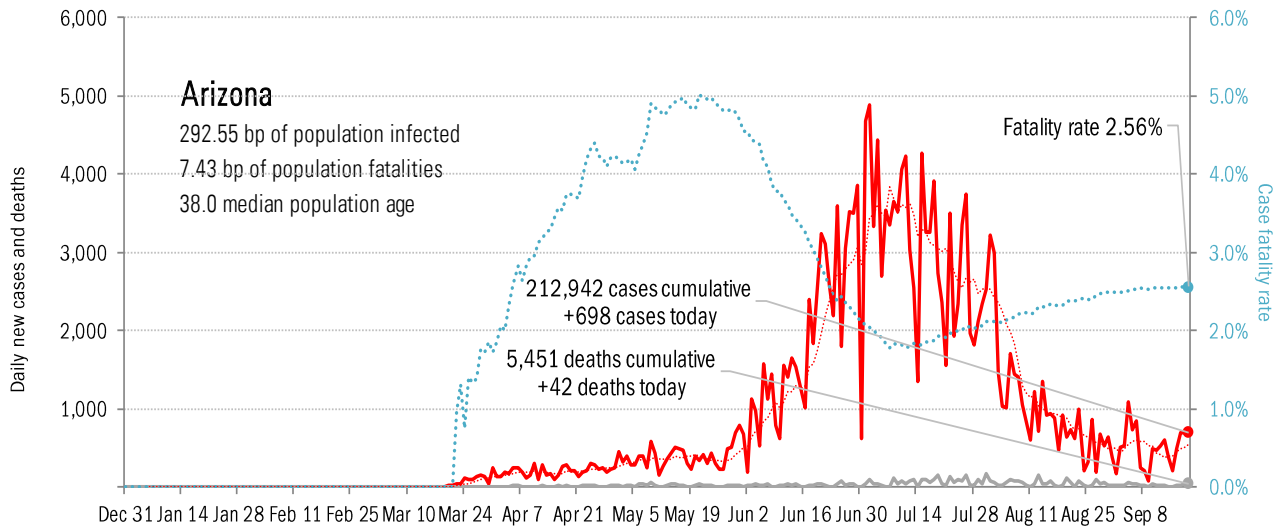
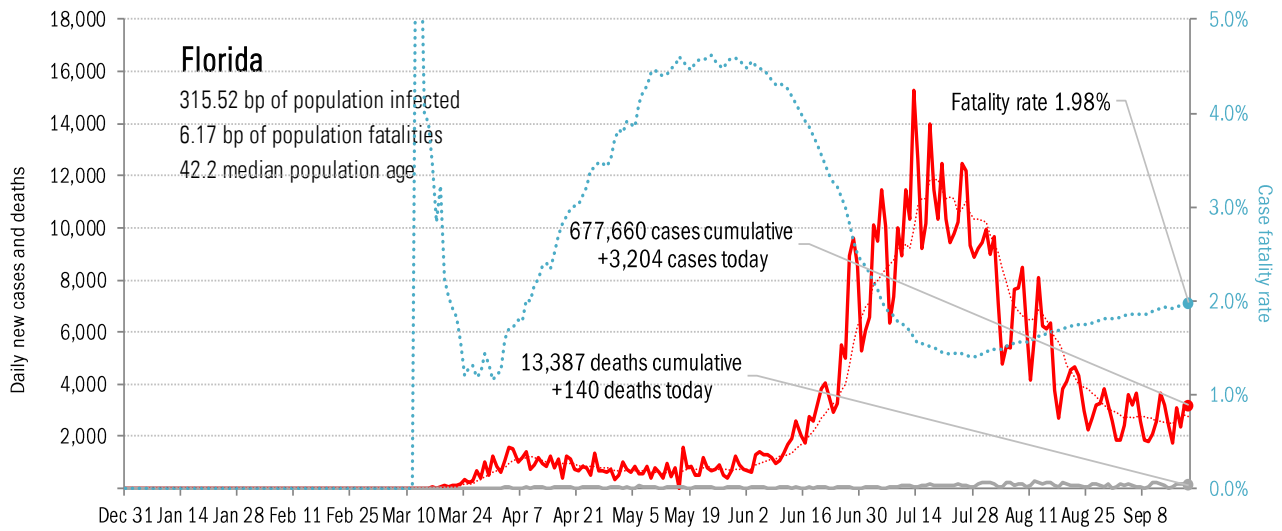
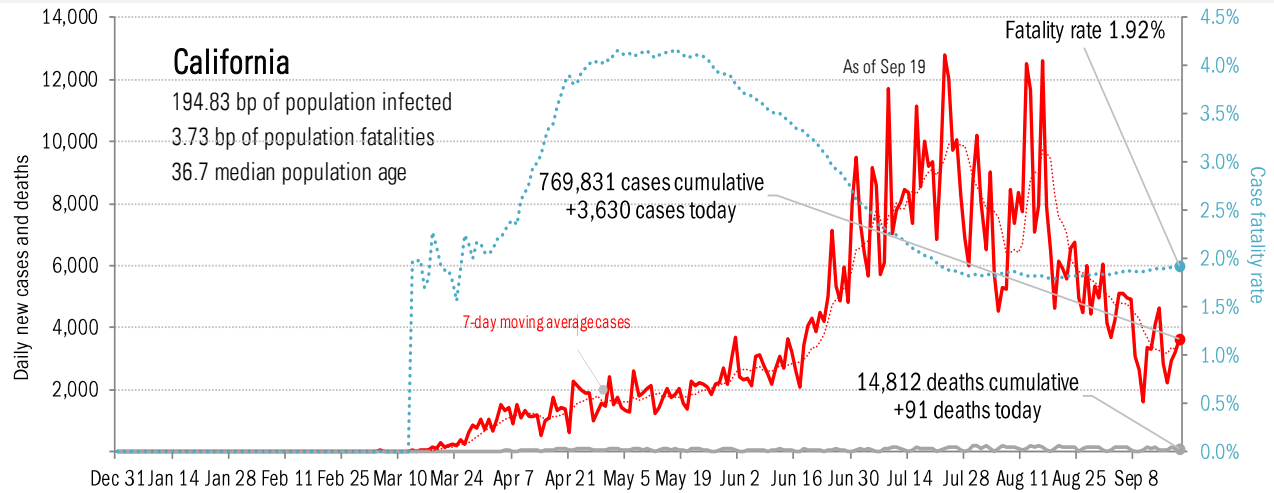
Source: [ECDC](#), [IHME](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



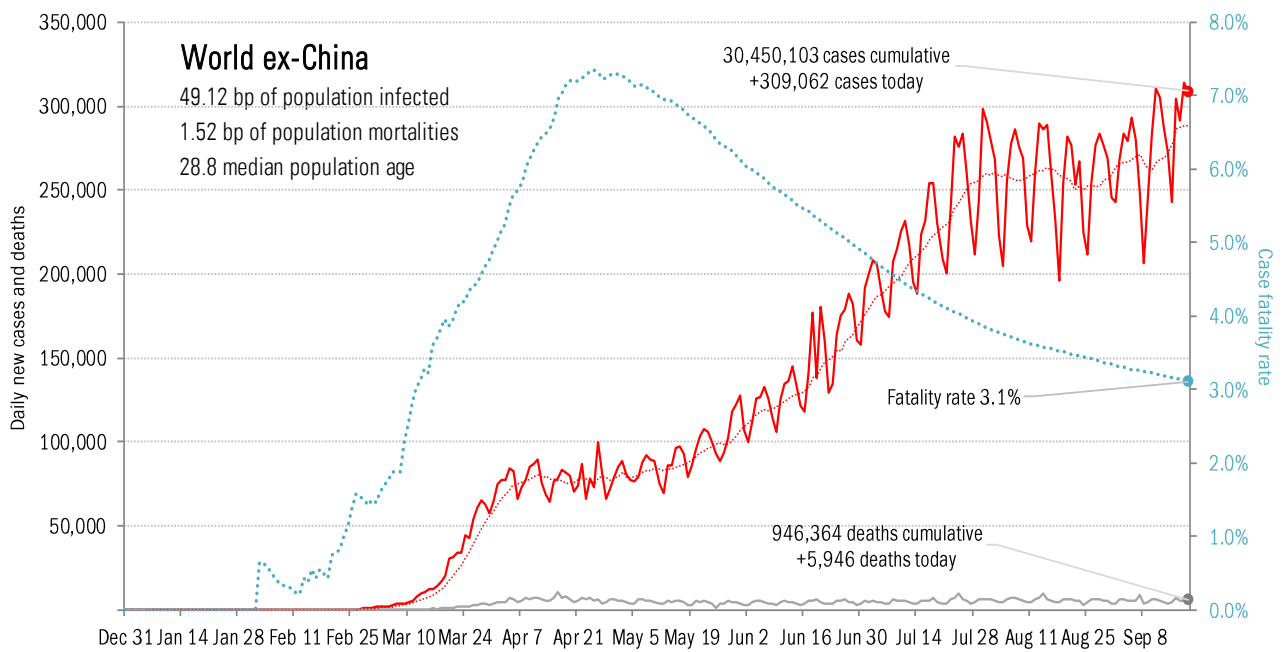
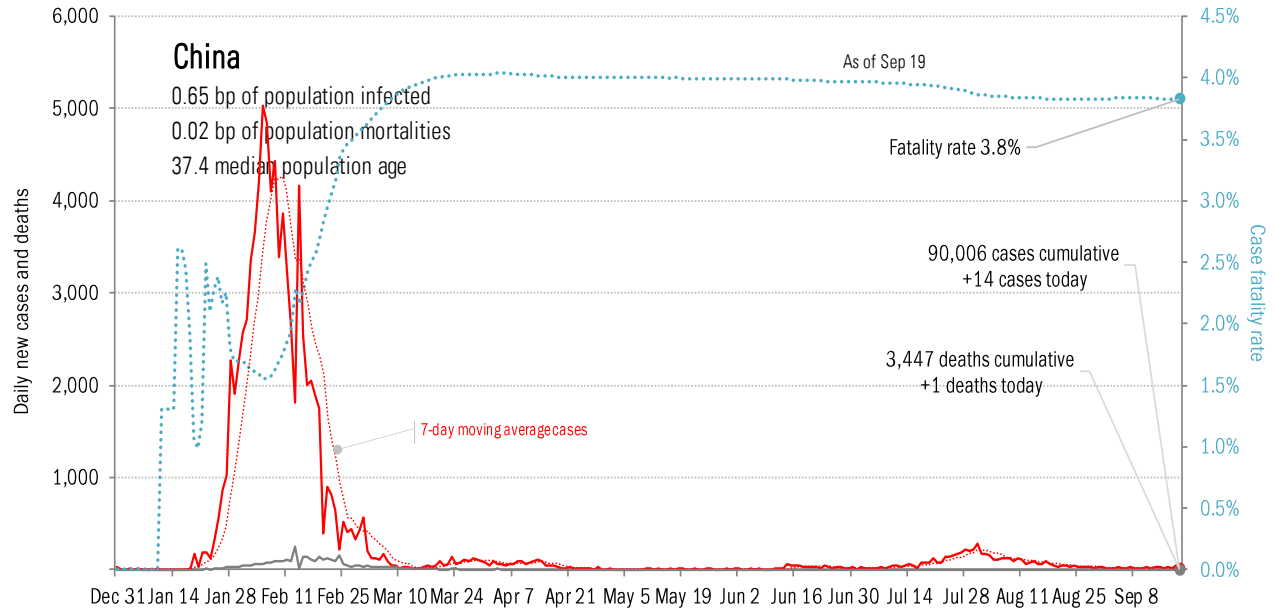
Source: [ECDC](#), TrendMacro calculations

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



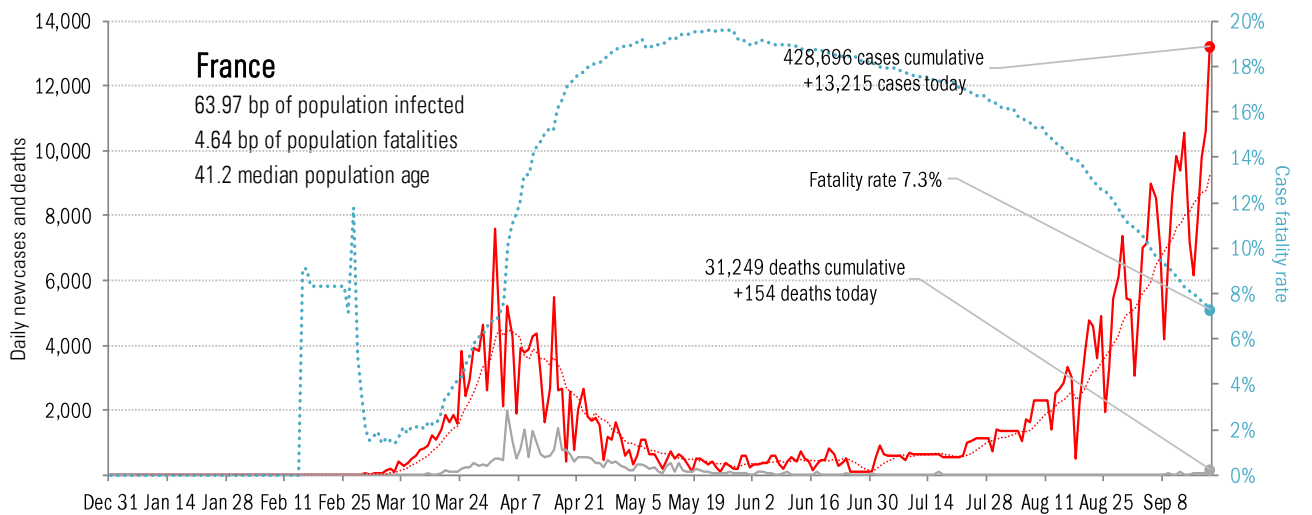
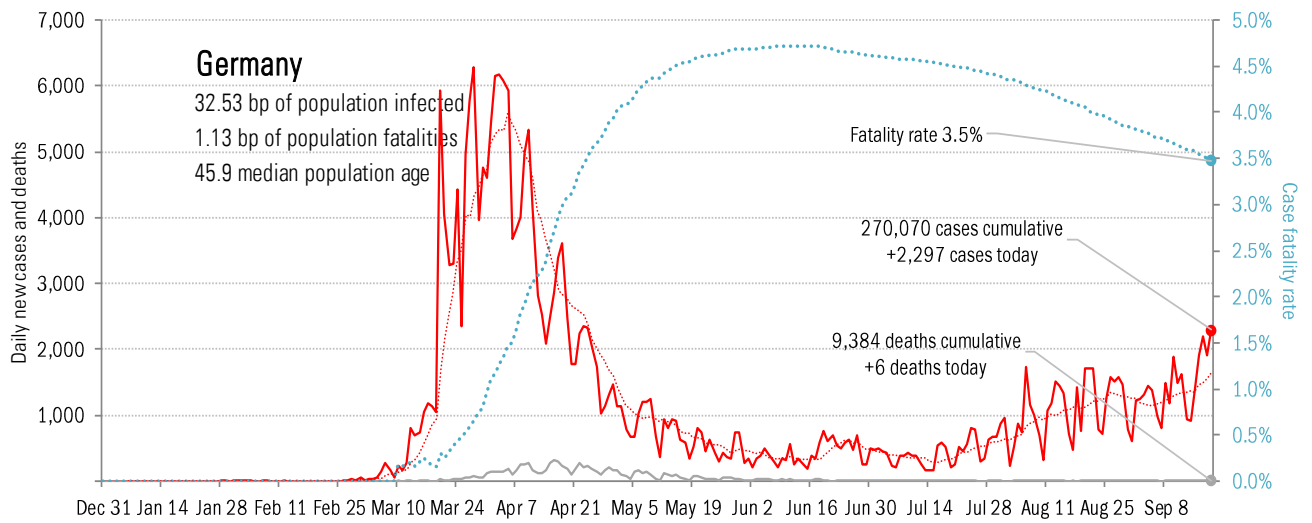
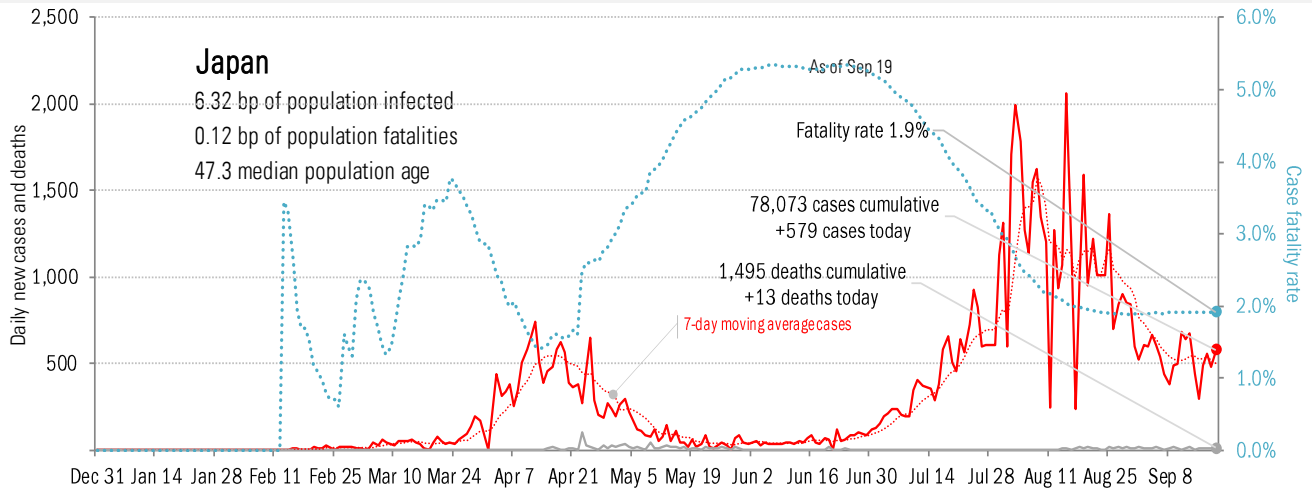
Source: [ECDC](#), TrendMacro calculations

# Patient zero... and then everyone else



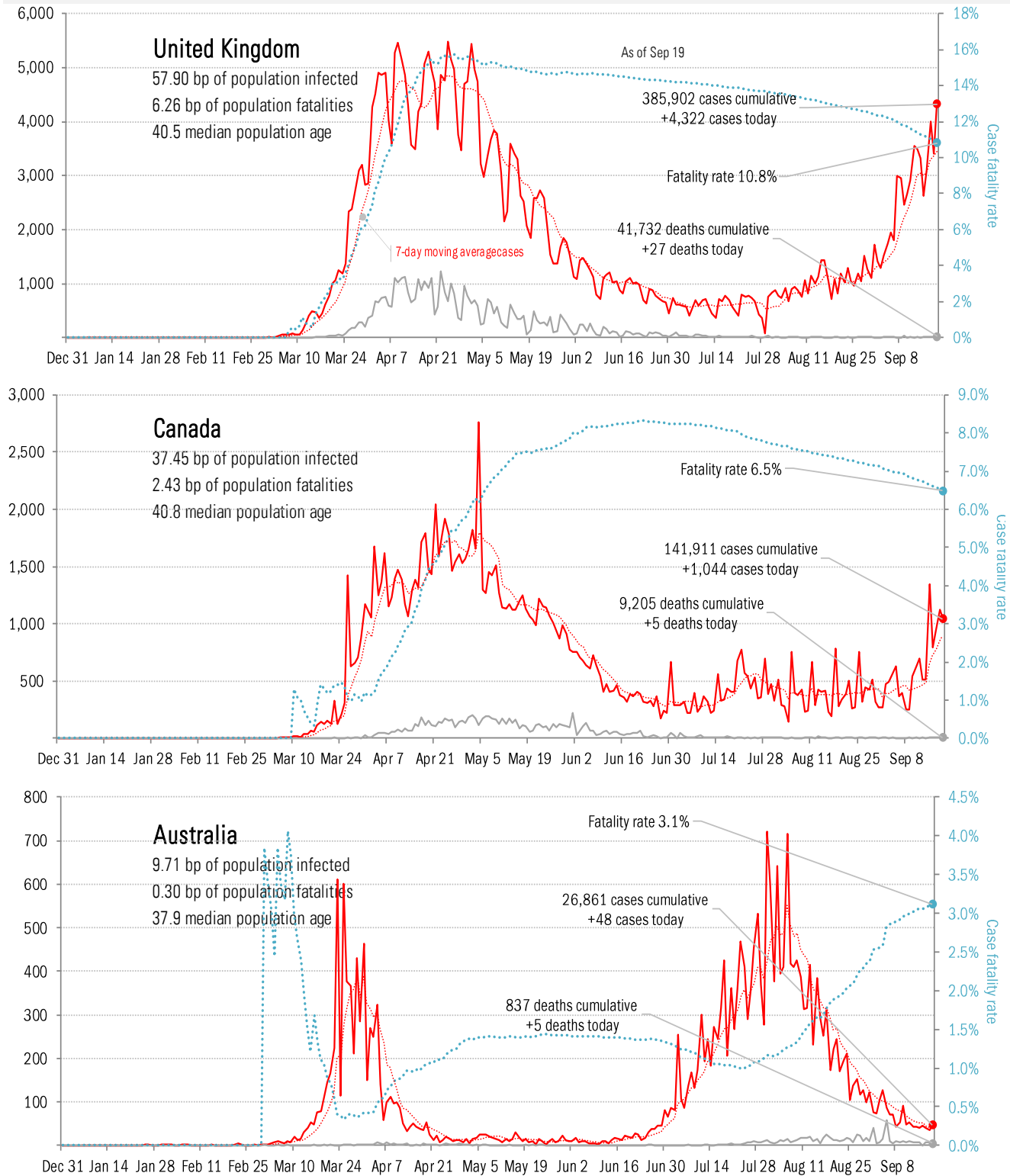
Source: [ECDC](#), TrendMacro calculations

# Impact in the largest economies



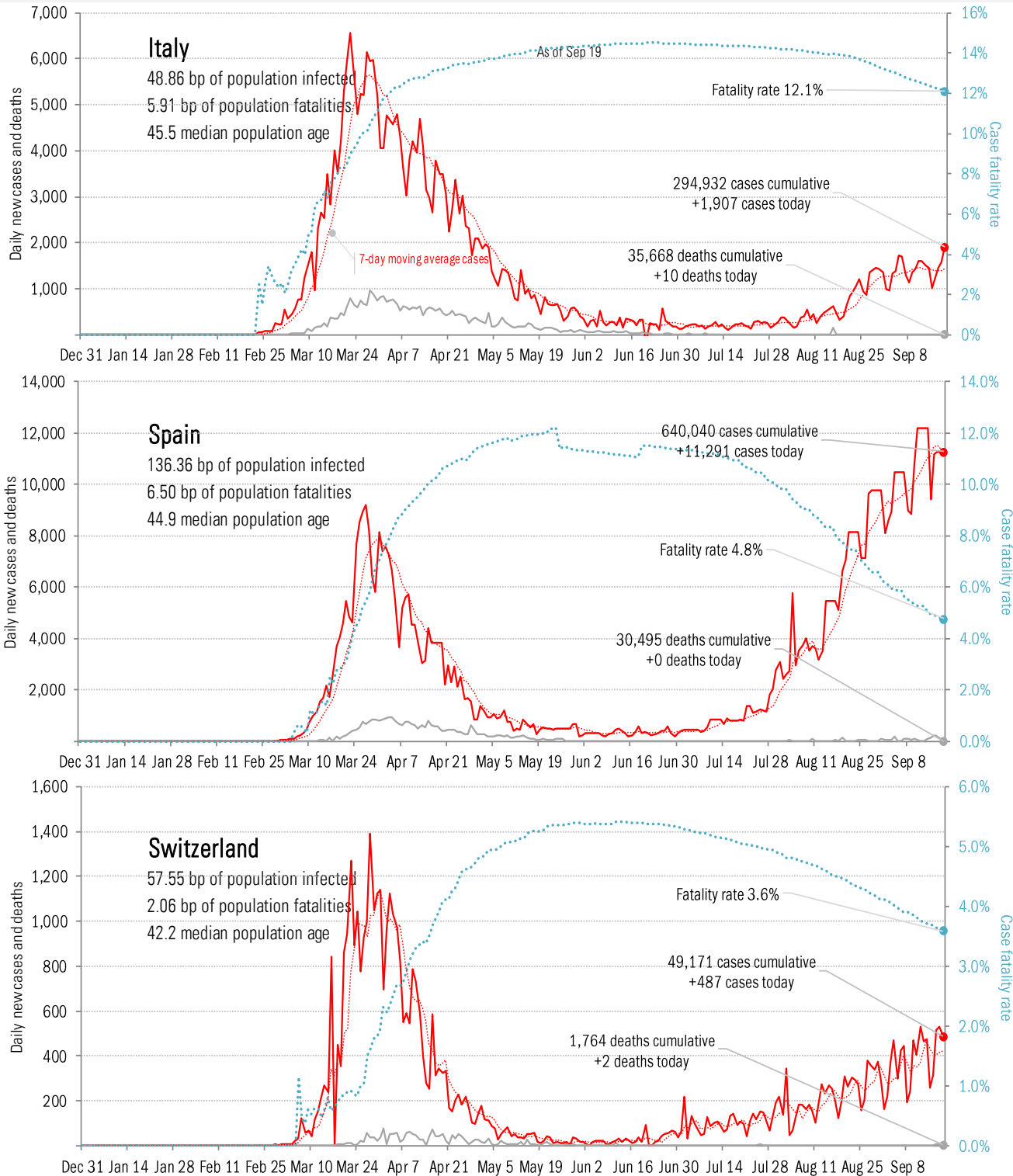
Source: [ECDC](#), TrendMacro calculations

# Impact in The Anglosphere



Source: [ECDC](#), TrendMacro calculations

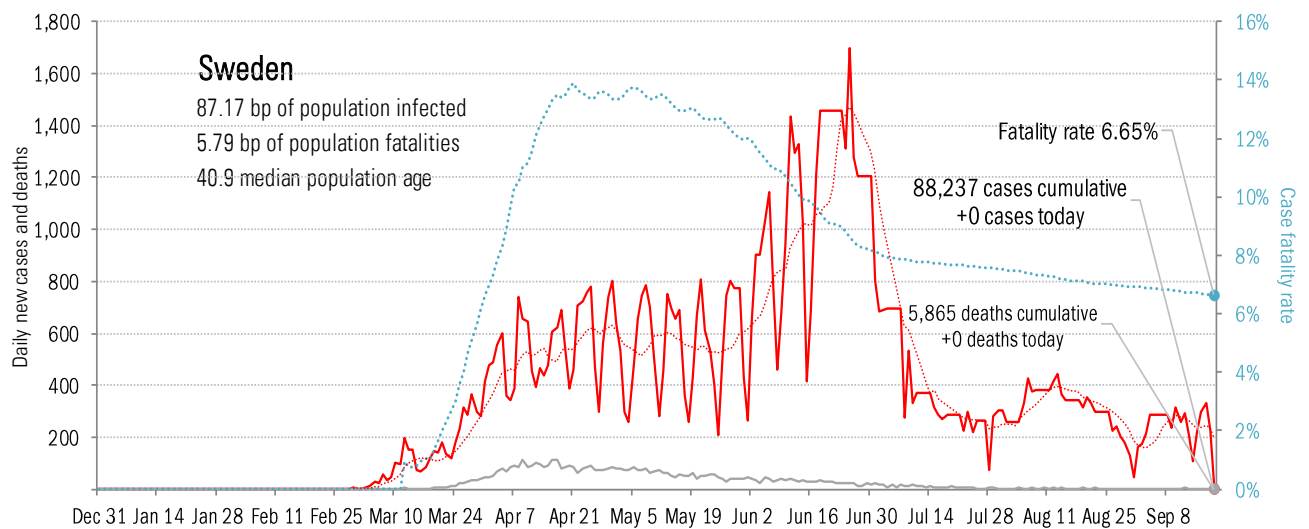
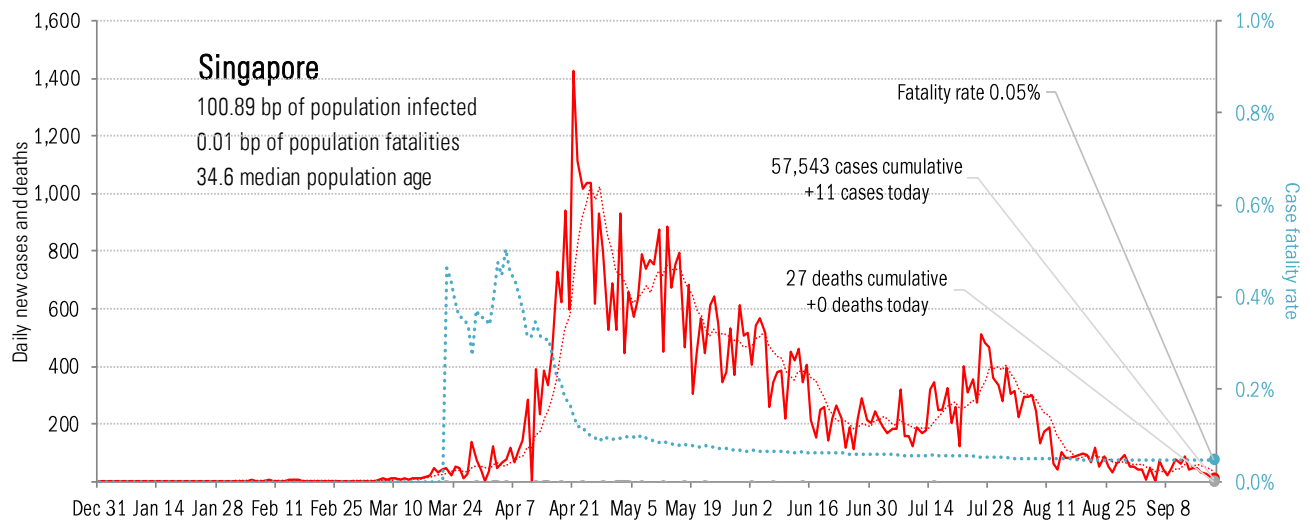
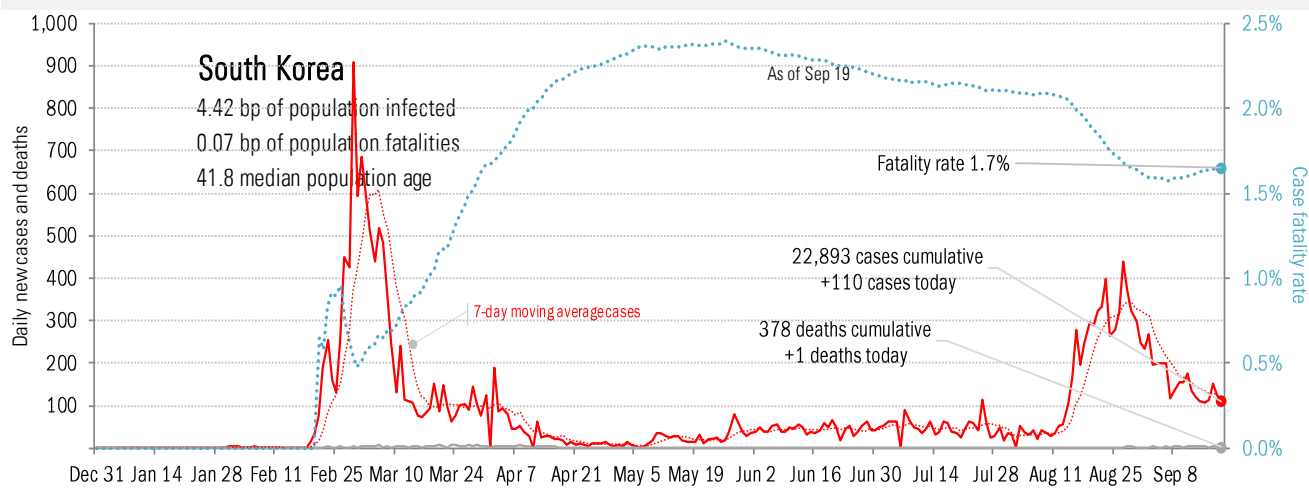
## Impact in continental Europe



Source: [ECDC](#), TrendMacro calculations

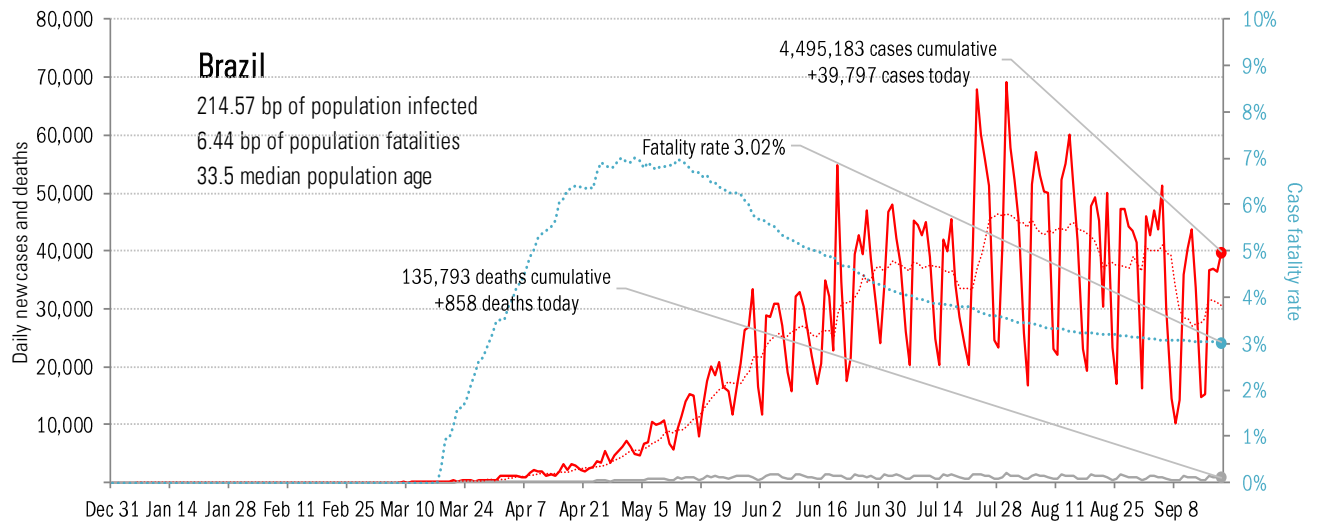
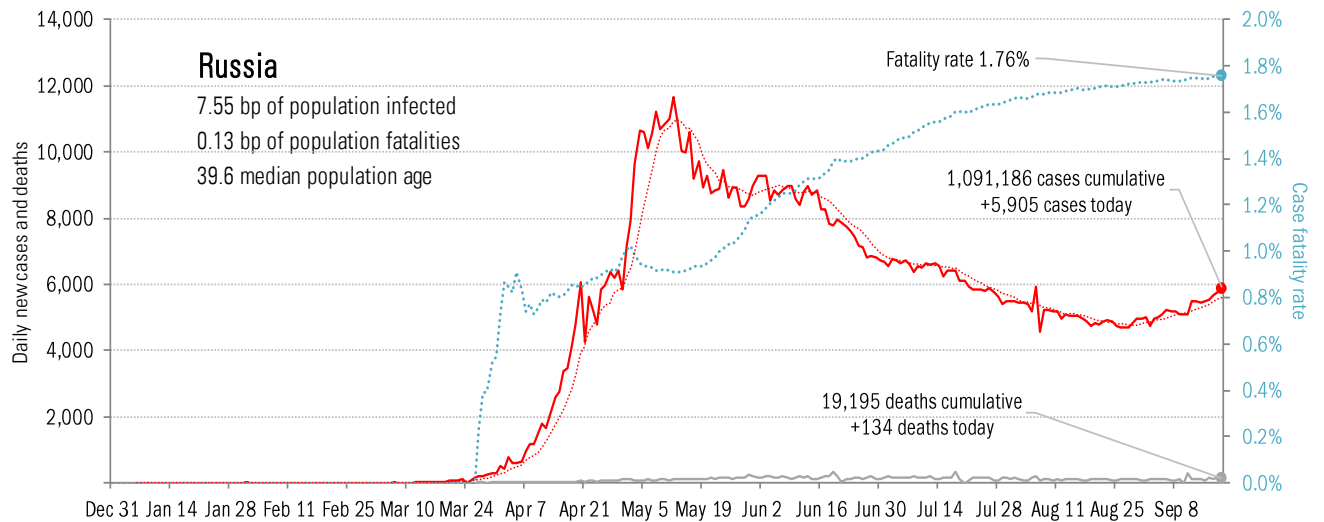
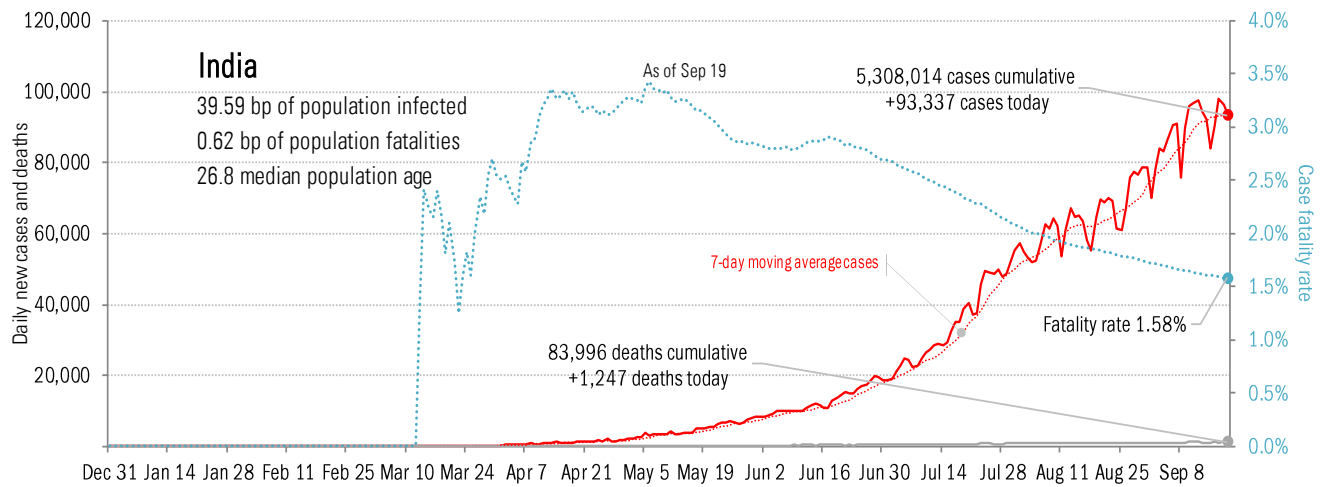
## Impact in other hot-spots





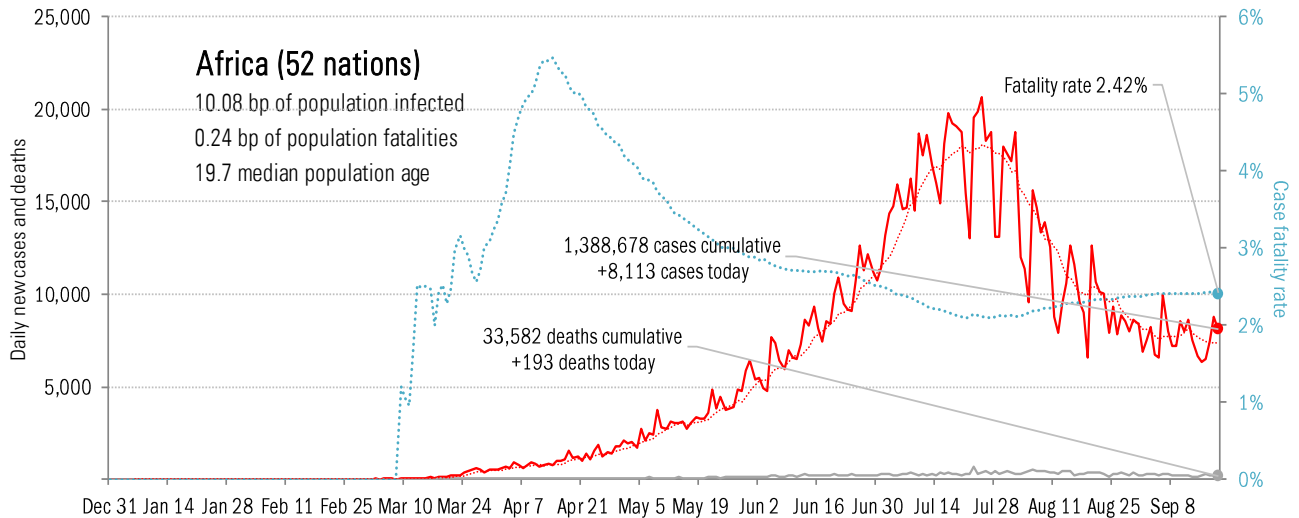
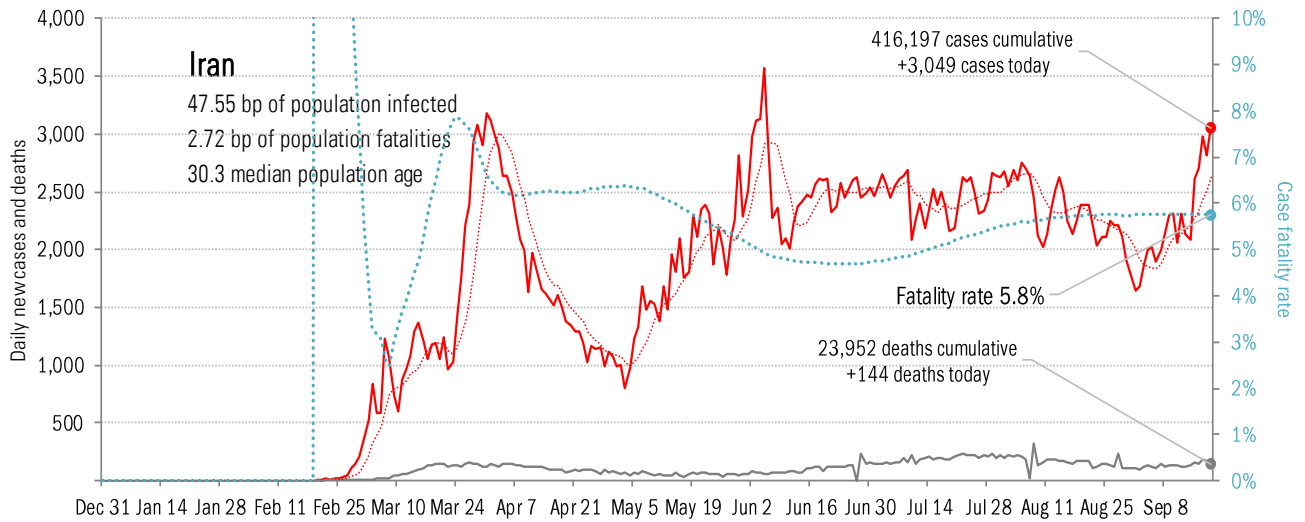
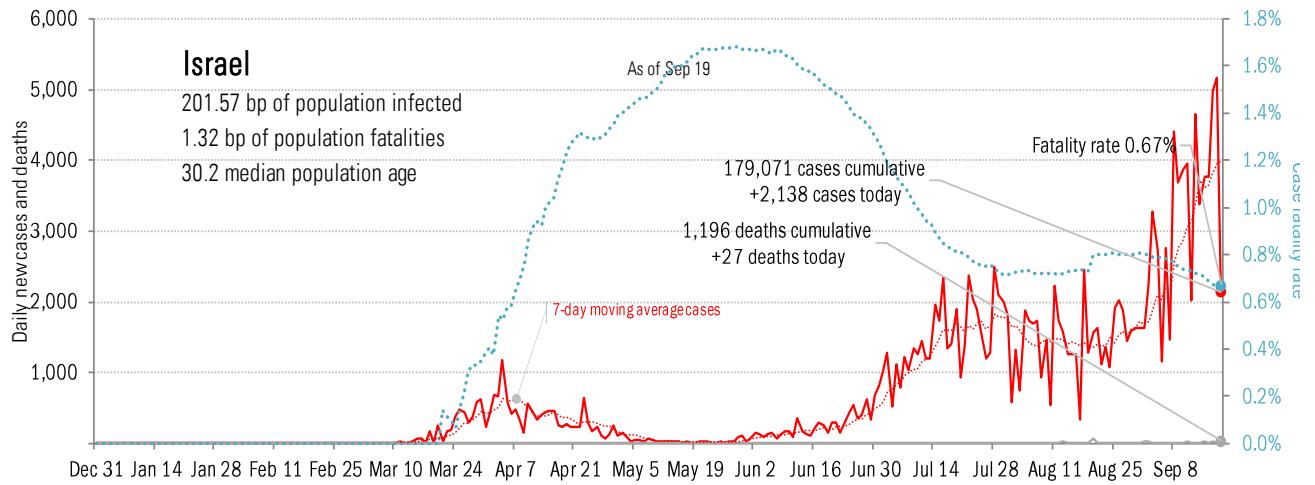
Source: [ECDC](#), TrendMacro calculations

## Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

## Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations