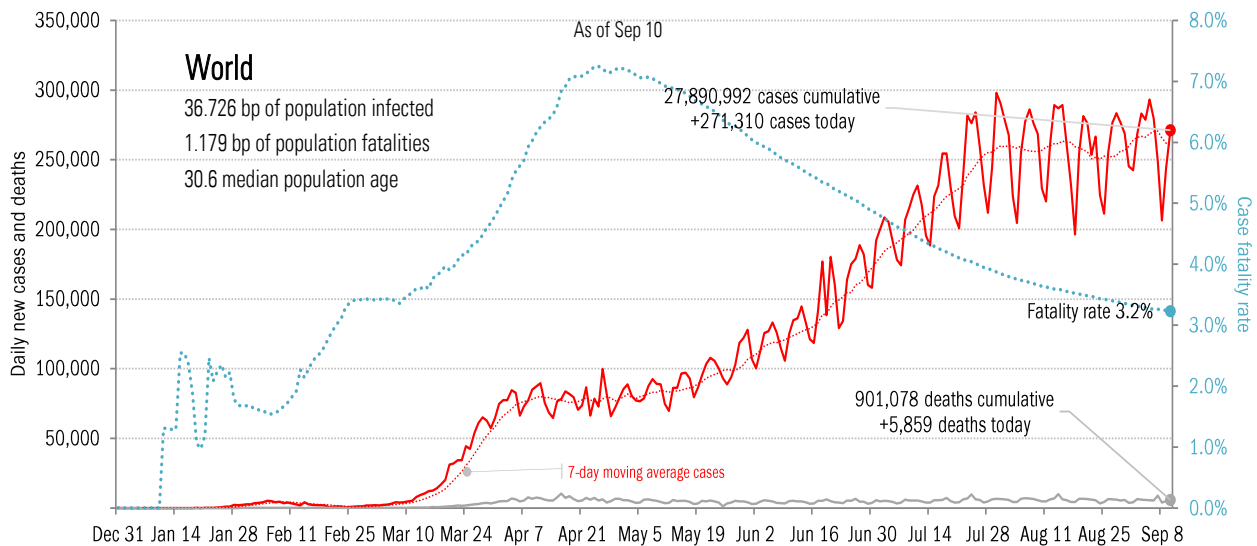
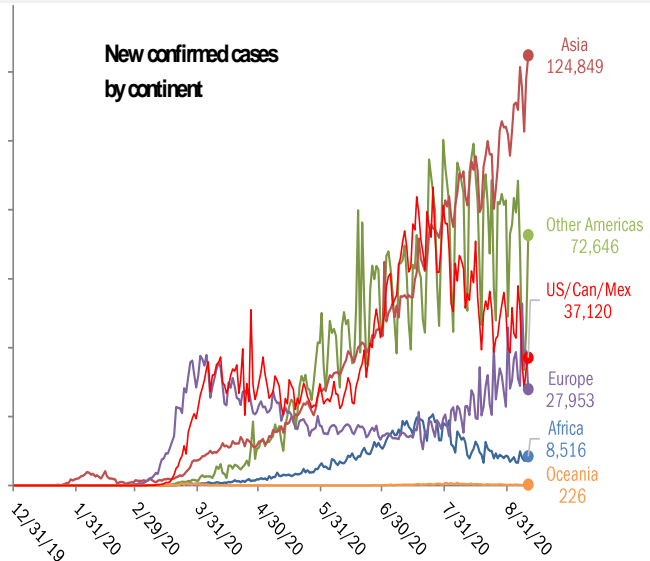


## Data Insights: Covid-2019 Monitor

Thursday, September 10, 2020

### The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+95,735	India	+1,172
Brazil	+35,816	US	+1,136
US	+31,927	Brazil	+1,075
Argentina	+12,027	Mexico	+611
France	+8,577	Argentina	+278
Colombia	+7,343	Colombia	+236
Peru	+6,586	Iran	+127
Mexico	+4,647	Peru	+113
Iraq	+4,243	Indonesia	+106
Israel	+3,863	South_Africa	+82
<b>+210,764</b>		<b>+4,936</b>	
World	+271,310	World	+5,859
Top ten	78%	Top ten	84%



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

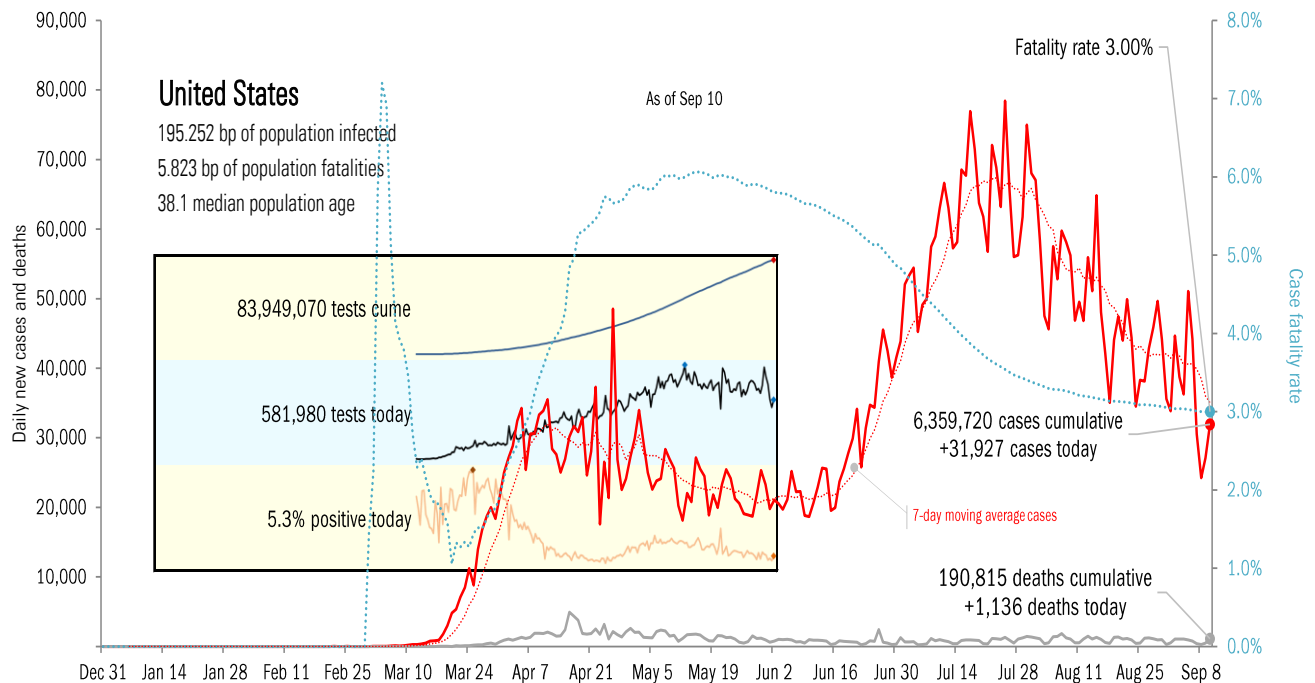
National and state-by-state data do not line up because of different sources

## The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
TX	+4,000	FL	+202	FL	+324	CA	739,527	NY	25,370	NY	89,995
FL	+2,056	TX	+139	GA	+256	FL	652,148	NJ	16,009	FL	40,985
GA	+1,937	CA	+83	VA	+208	TX	645,791	CA	13,841	GA	25,845
CA	+1,616	MI	+76	AL	+202	NY	441,154	TX	13,692	NJ	22,854
LA	+1,561	GA	+58	CH	+116	GA	287,287	FL	12,269	AZ	21,593
MO	+1,362	NC	+49	OK	+116	IL	255,618	MA	9,146	VA	17,039
IL	+1,337	MS	+38	WA	+106	AZ	206,541	IL	8,433	AL	15,339
CH	+973	TN	+35	TN	+89	NJ	194,990	PA	7,805	MD	14,672
MI	+961	AZ	+30	AZ	+71	NC	179,532	MI	6,887	CH	14,083
PA	+931	SC	+30	IN	+61	TN	166,587	GA	6,128	MA	12,387
<b>+16,734</b>		<b>+740</b>		<b>+1,549</b>		<b>3,769,175</b>		<b>119,580</b>		<b>274,792</b>	
All states	+30,983	All states	+1,089	All states	+2,060	All states	6,329,405	All states	182,779	All states	381,926
Top ten	54%	Top ten	68%	Top ten	75%	Top ten	60%	Top ten	65%	Top ten	72%

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CA	-1,060	CT	-6	MS	-84	LA	+6,008
CT	-328	ND	-4	CR	-36	TX	+5,485
FR	-126	NM	-4	AL	-21	AL	+3,069
MN	-123	MA	-3	ME	-2	PA	+2,167
IA	-91	NY	-3	NM	-2	MA	+1,732



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

## Recommended reading

### [The impact of COVID-19 on education](#)

Andreas Schleicher  
*OECD*  
September 2020

### [OECD: U.S. economy could lose \\$15.3 trillion over next century due to school closures](#)

Marisa Fernandez  
*Axios*  
September 8, 2020

### [No, the Sturgis Motorcycle Rally Didn't Spawn 250,000 Coronavirus Cases](#)

Elizabeth Nolan Brown  
*Reason*  
September 9, 2020

### [Obese Patients at High Risk of Severe Covid Illness, Study Finds](#)

Marthe Fourcade  
*Bloomberg*  
August 31, 2020

### [45 states have been approved to offer \\$300 extra in unemployment benefits — only 6 have started to distribute it](#)

Elisabeth Buchwald  
*MarketWatch*  
September 5, 2020

### [Shut down, start over, do it right](#)

Ezekiel J. Emanuel et al.  
*US PIRG*  
September 1, 2020

### [Association of Mobile Phone Location Data Indications of Travel and Stay-at-Home Mandates With COVID-19 Infection Rates in the US](#)

Song Gao  
*Jama Network Open*  
September 8, 2020

### [Millions of Americans are receiving absentee ballot applications from outside groups. Here's what you need to know.](#)

Meg Cunningham  
*ABC News*  
September 6, 2020

### [The probability of not dying from COVID-19 based on official data provided by provincial and federal governments](#)

Krystal Wittervrongel  
*MEI*  
September 3, 2020

### [If You Can Grocery Shop in Person, You Can Vote in Person](#)

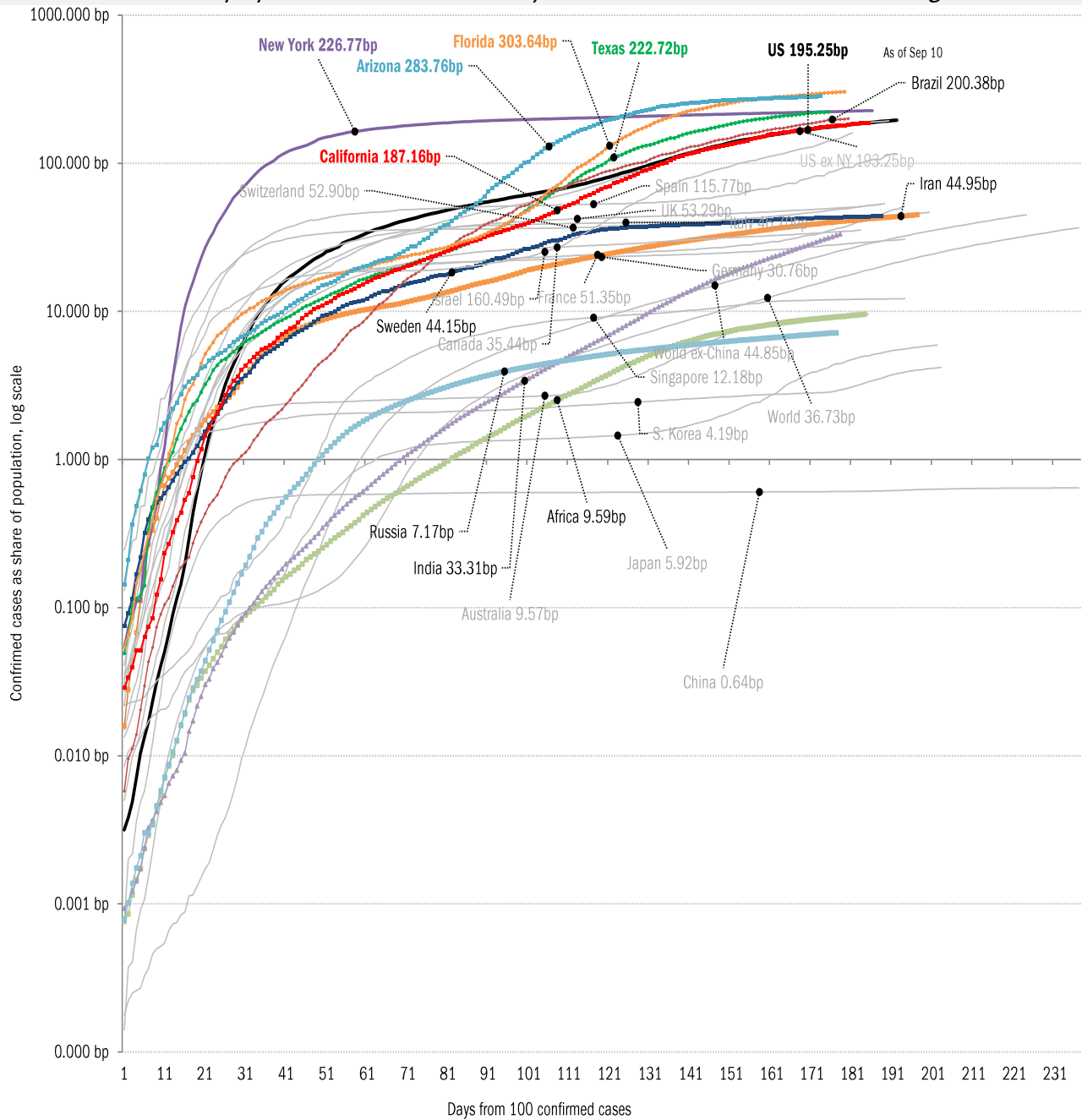
Russell Berman  
*The Atlantic*  
September 8, 2020

## Meme of day



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

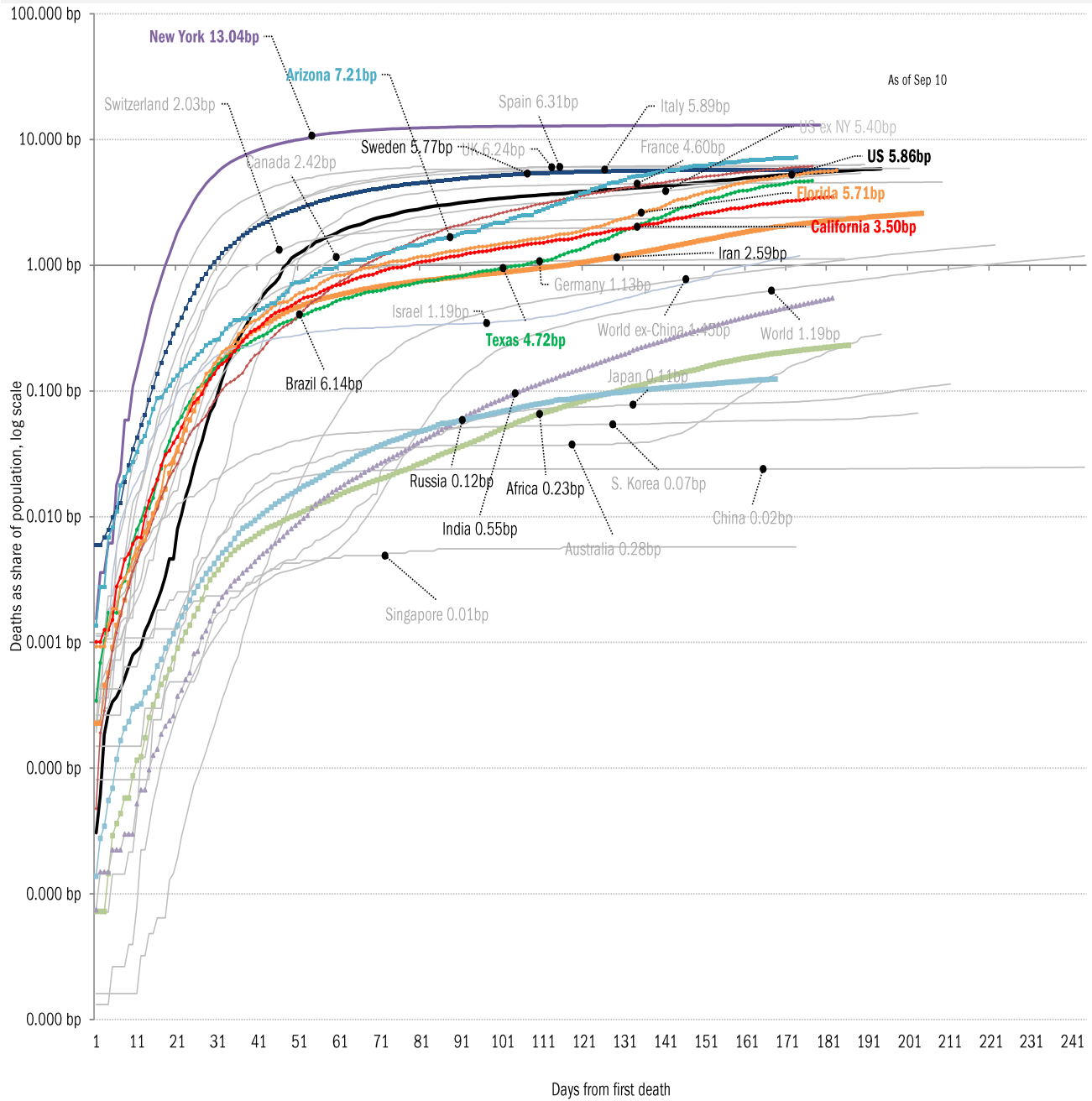
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



Source: [ECDC](#), TrendMacro calculations

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

## Share of deceased population from day of first fatality

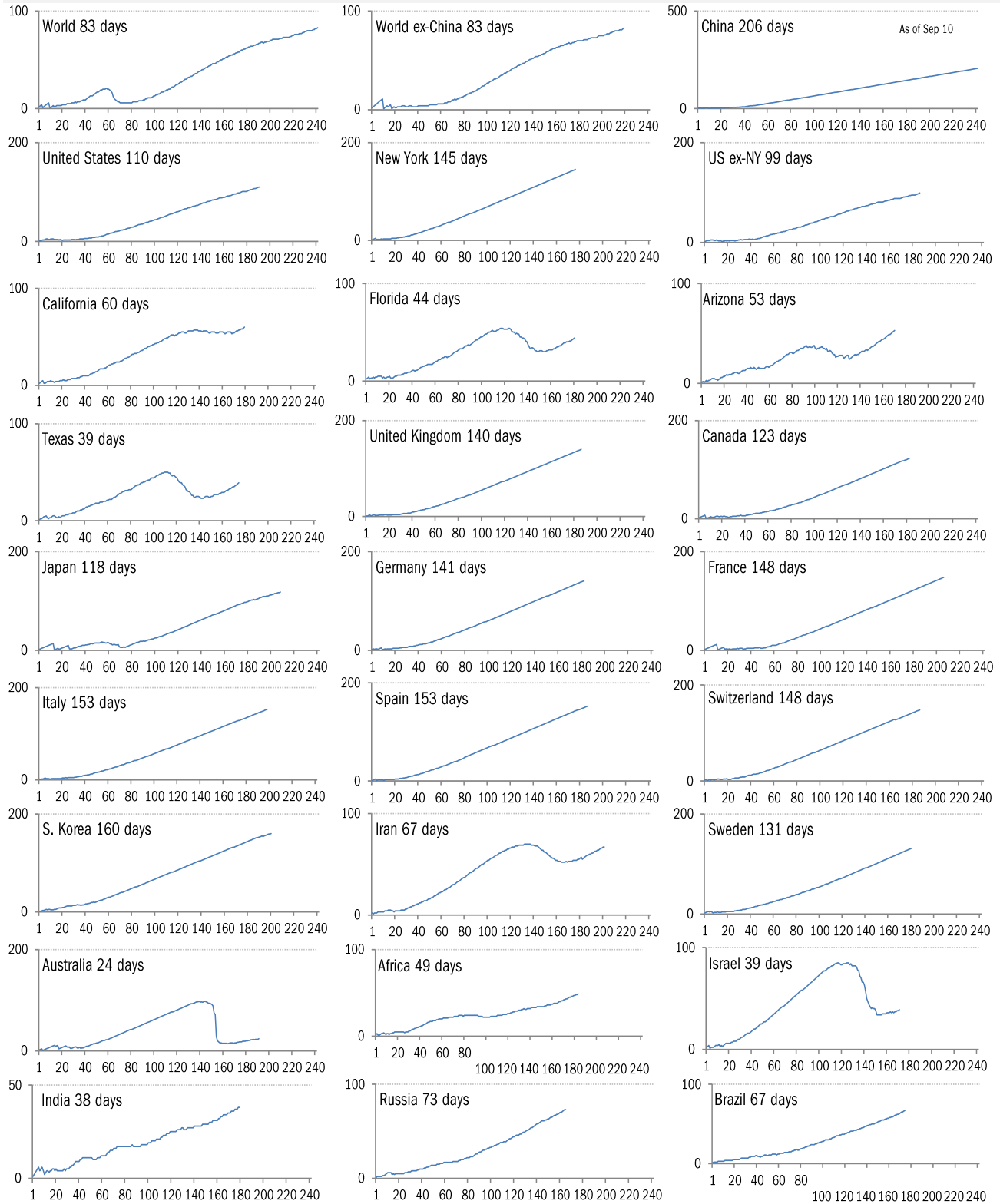


Source: [ECDC](#), TrendMacro calculations

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

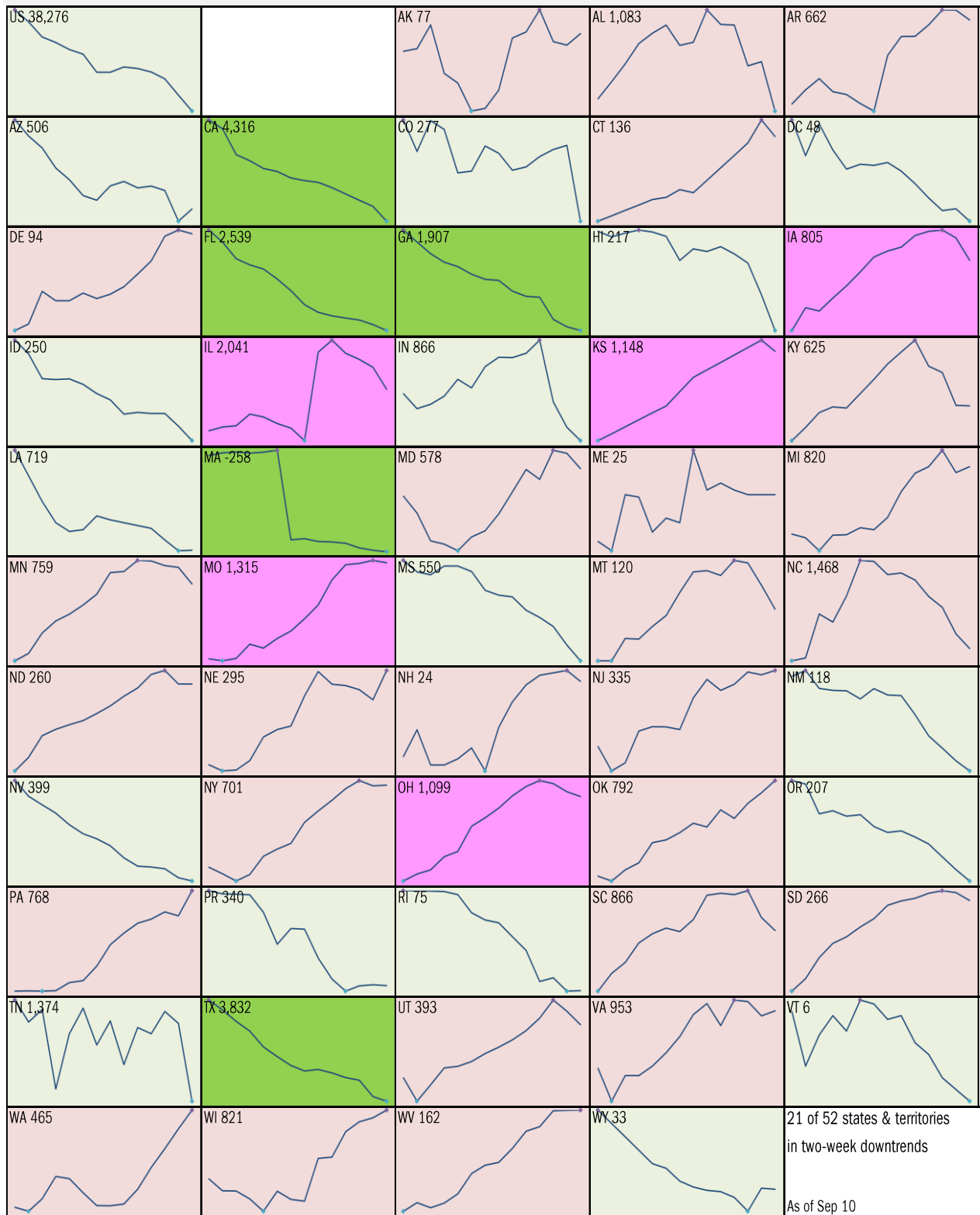
Vertical: days to double deaths Horizontal: days from first death

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

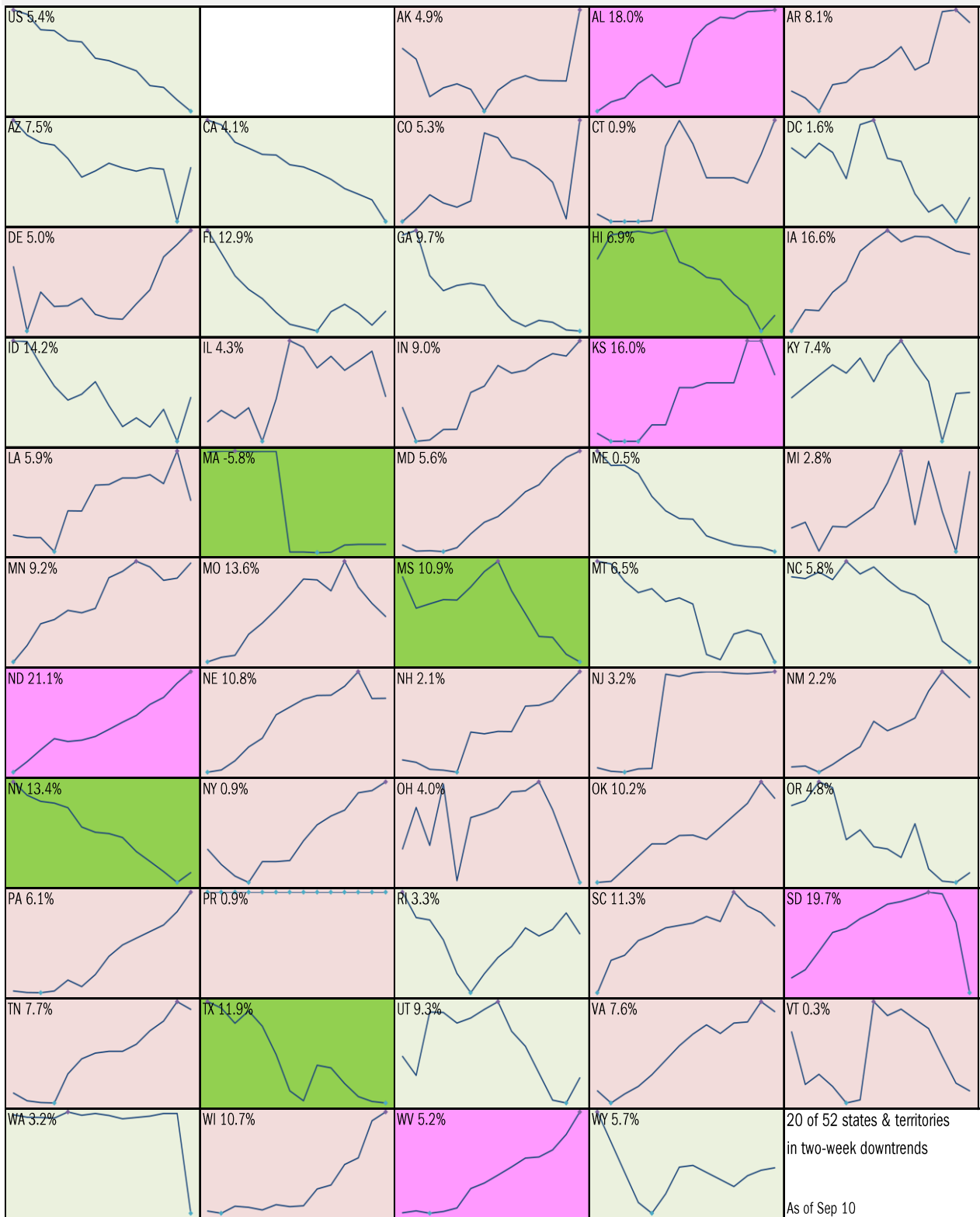


Source: [Covid Tracking Project](#), TrendMacro calculations

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



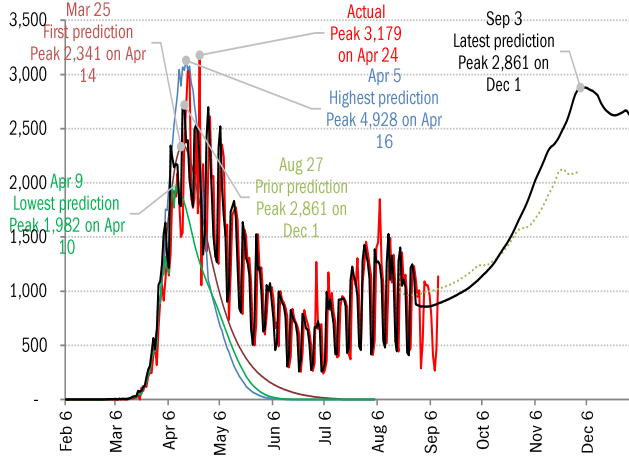
Source: [Covid Tracking Project](#), TrendMacro calculations



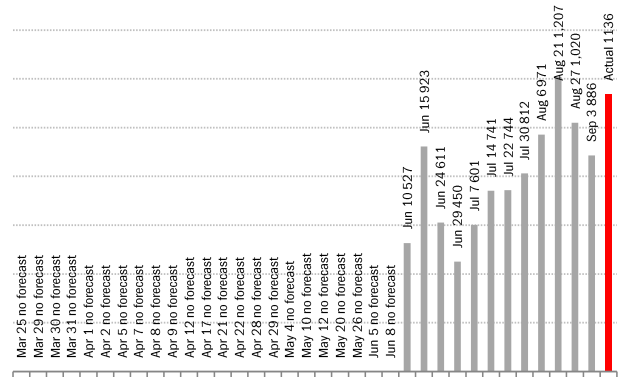
# Reality-checking the models: actuals versus [IHME](#) predictions

## New daily fatalities

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



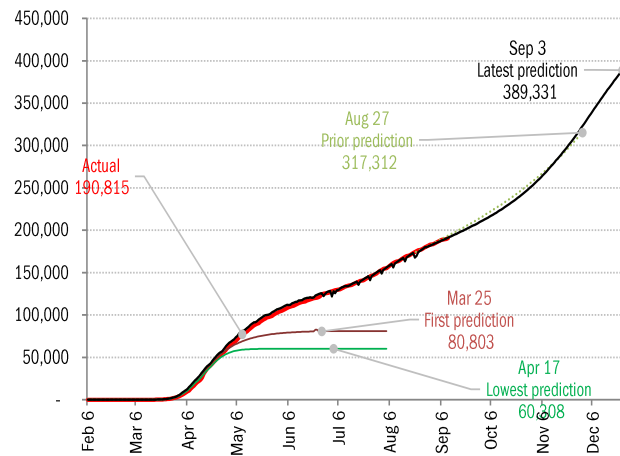
For this day, versus all model mean predictions



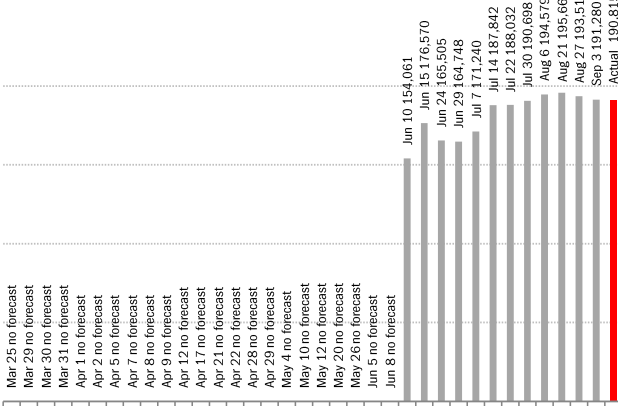
As of Sep 10

## Cumulative fatalities

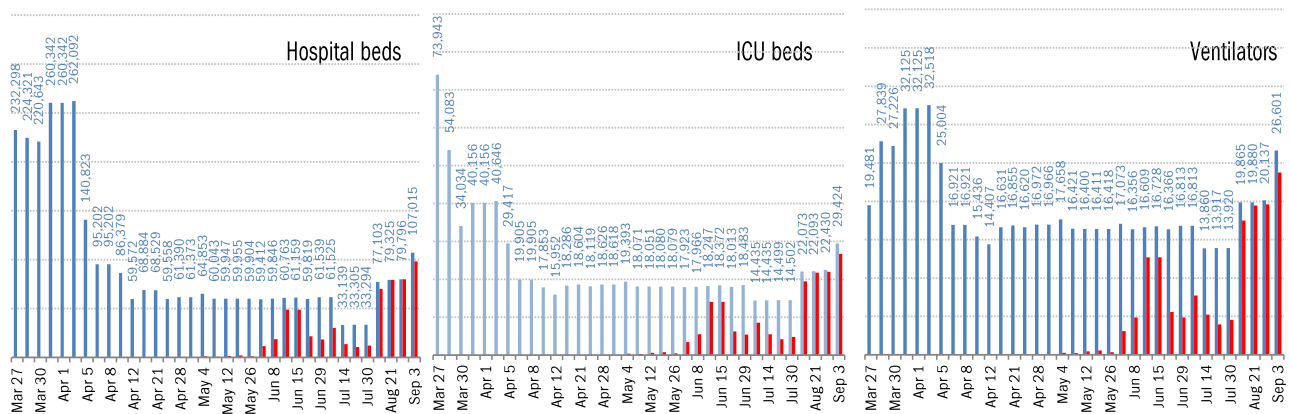
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

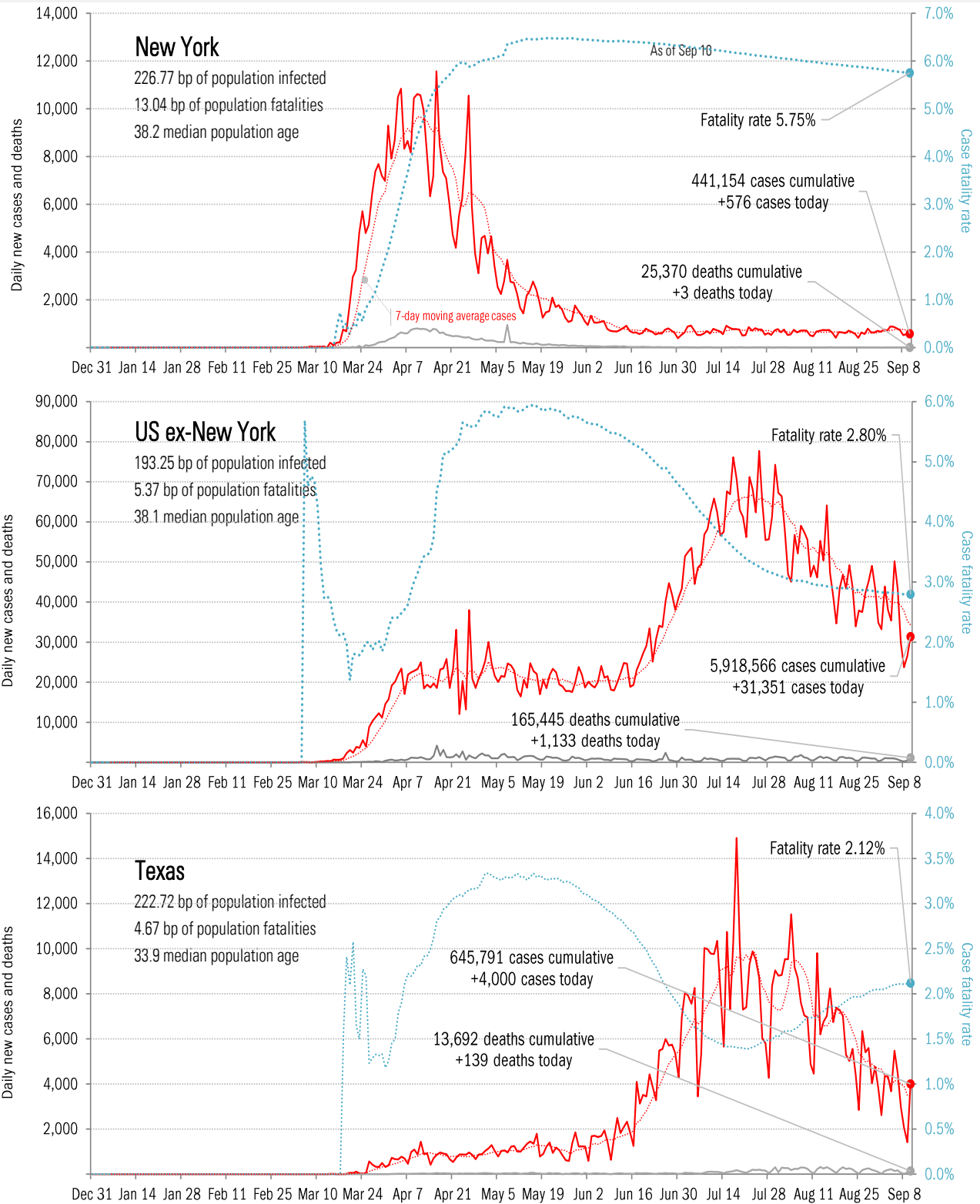


## Healthcare system stress, **peak** and **ultimate** estimated at each model revision



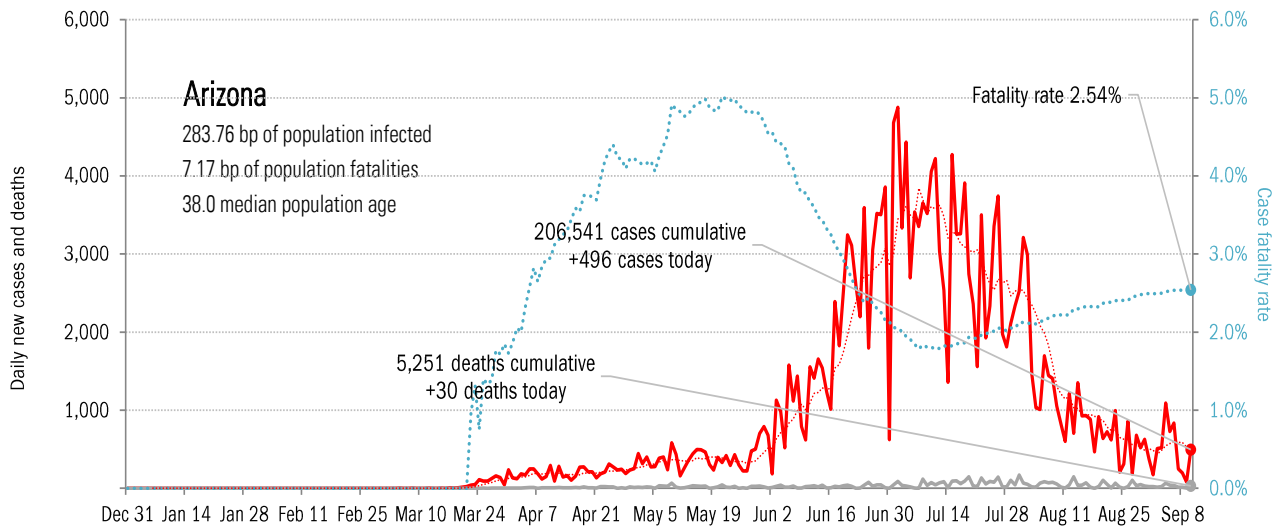
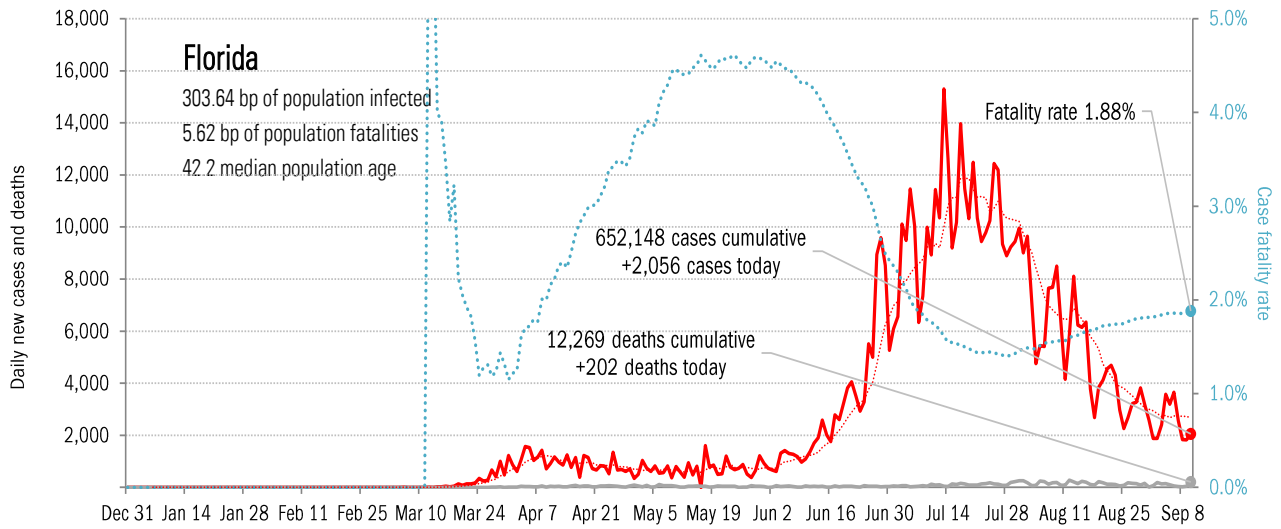
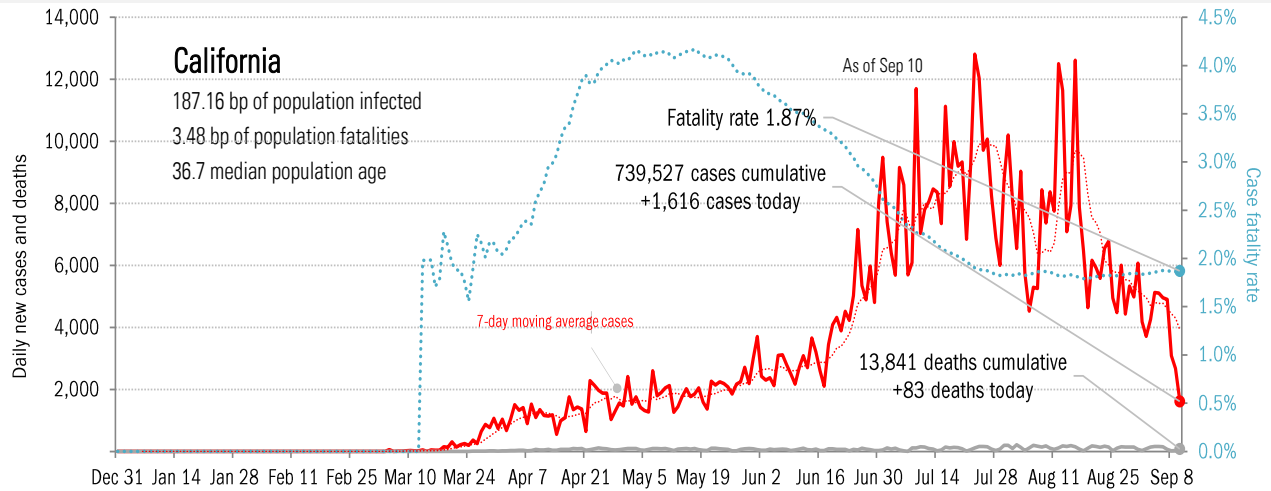
Source: [ECDC](#), [IHME](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



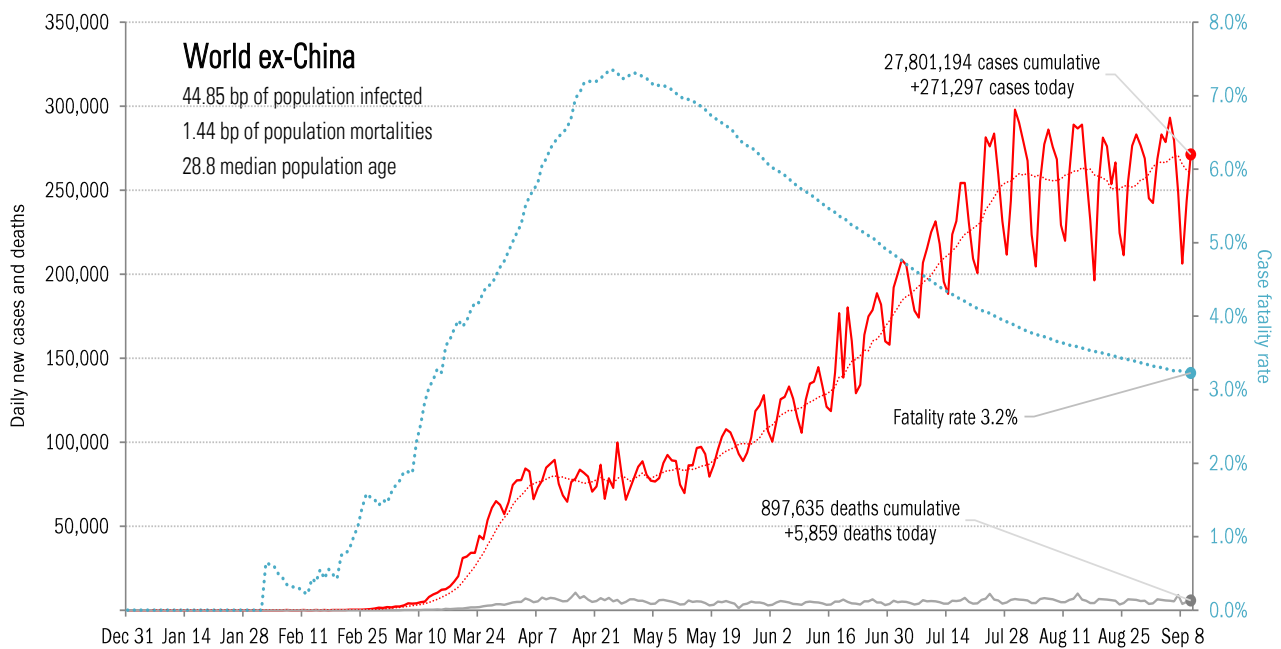
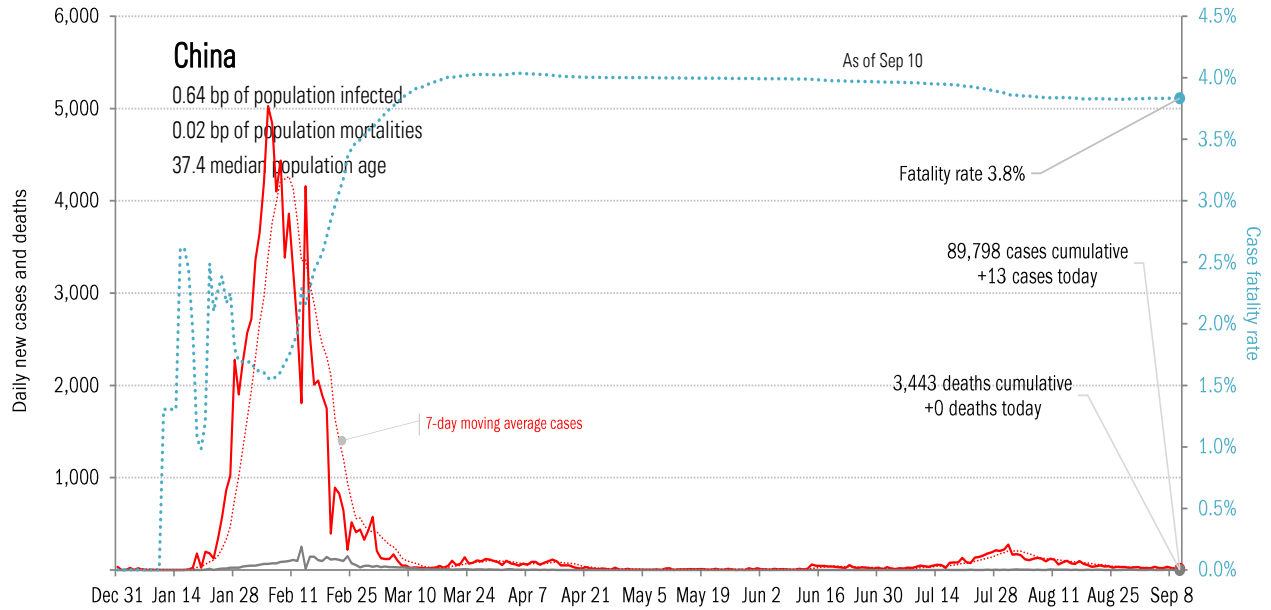
Source: [ECDC](#), TrendMacro calculations

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



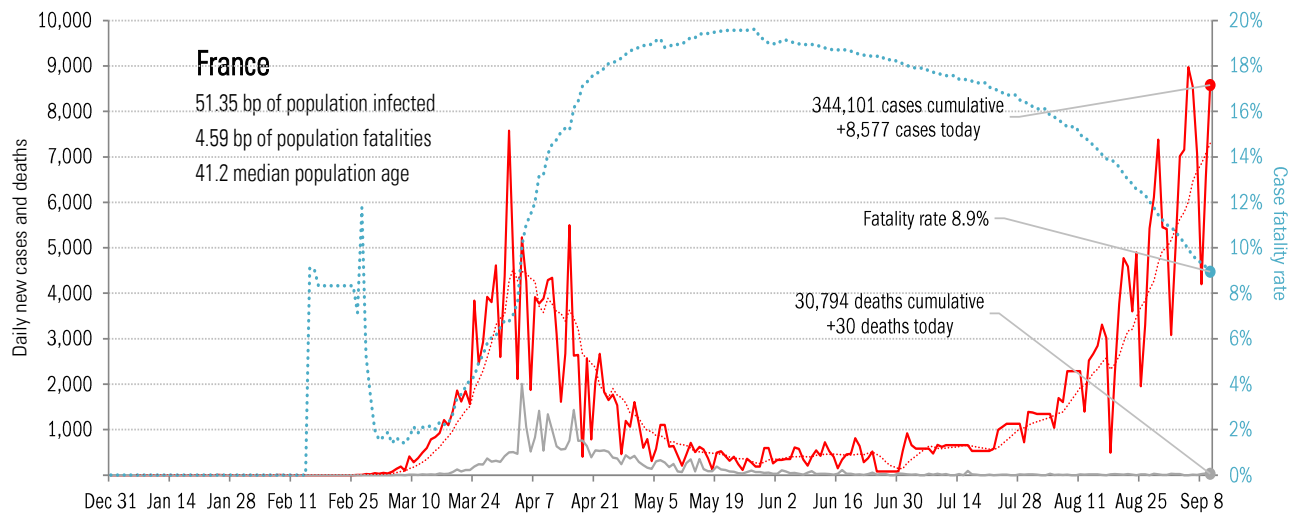
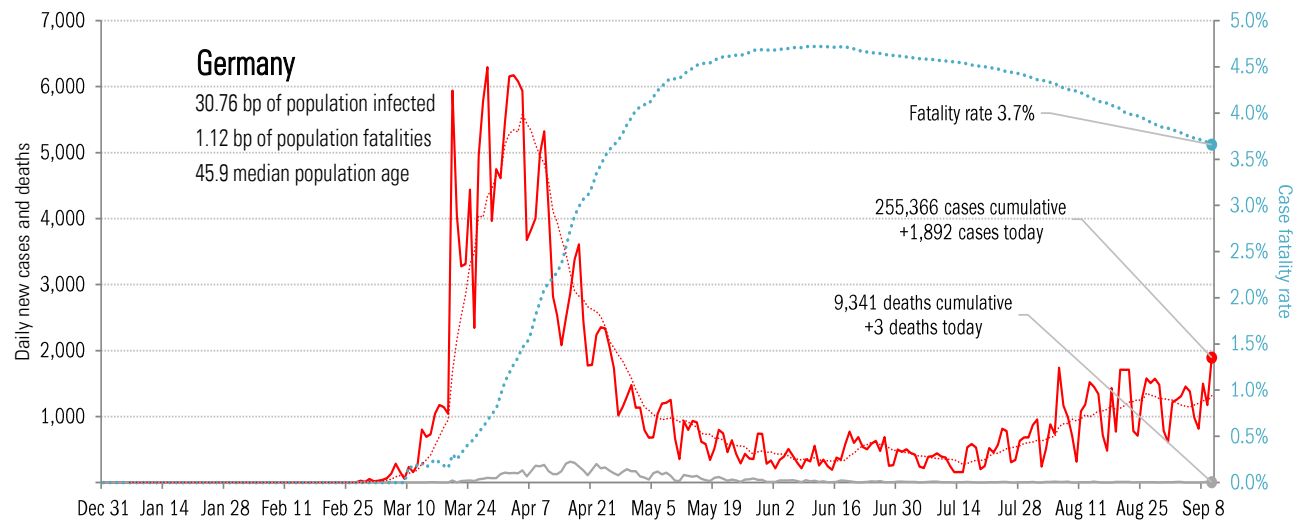
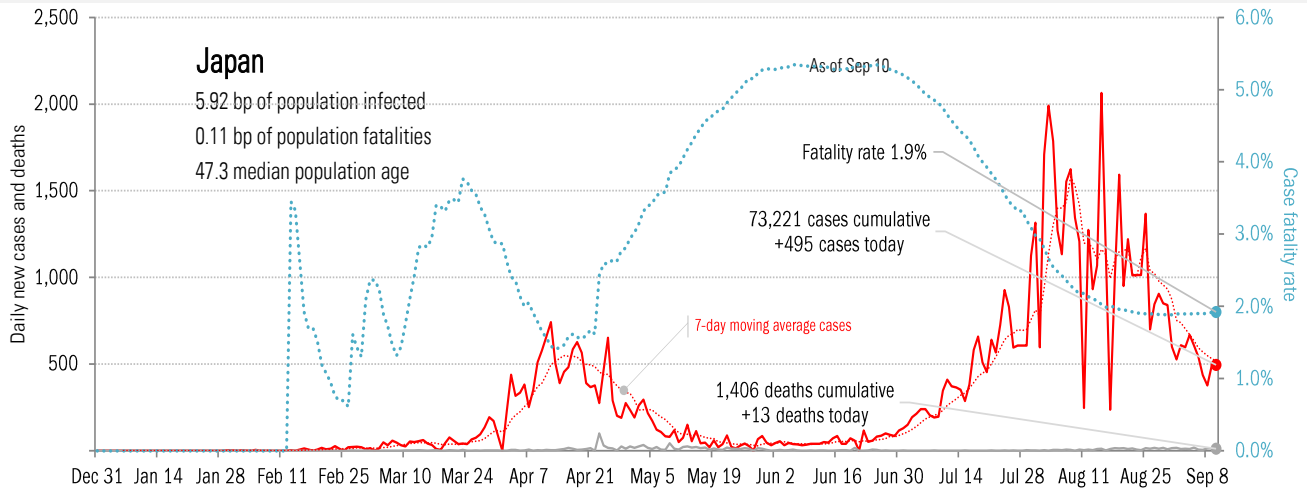
Source: [ECDC](#), TrendMacro calculations

# Patient zero... and then everyone else



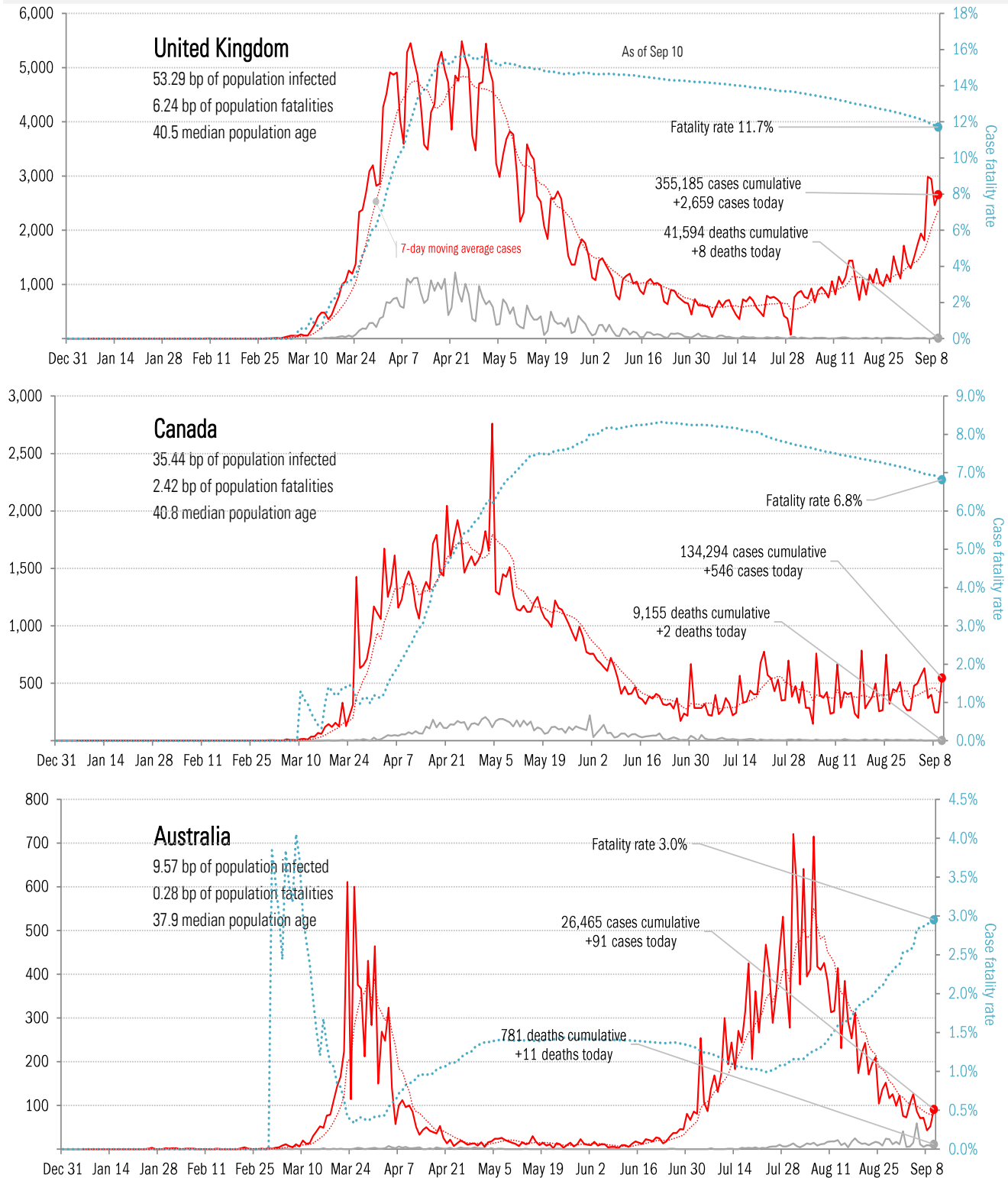
Source: [ECDC](#), TrendMacro calculations

# Impact in the largest economies



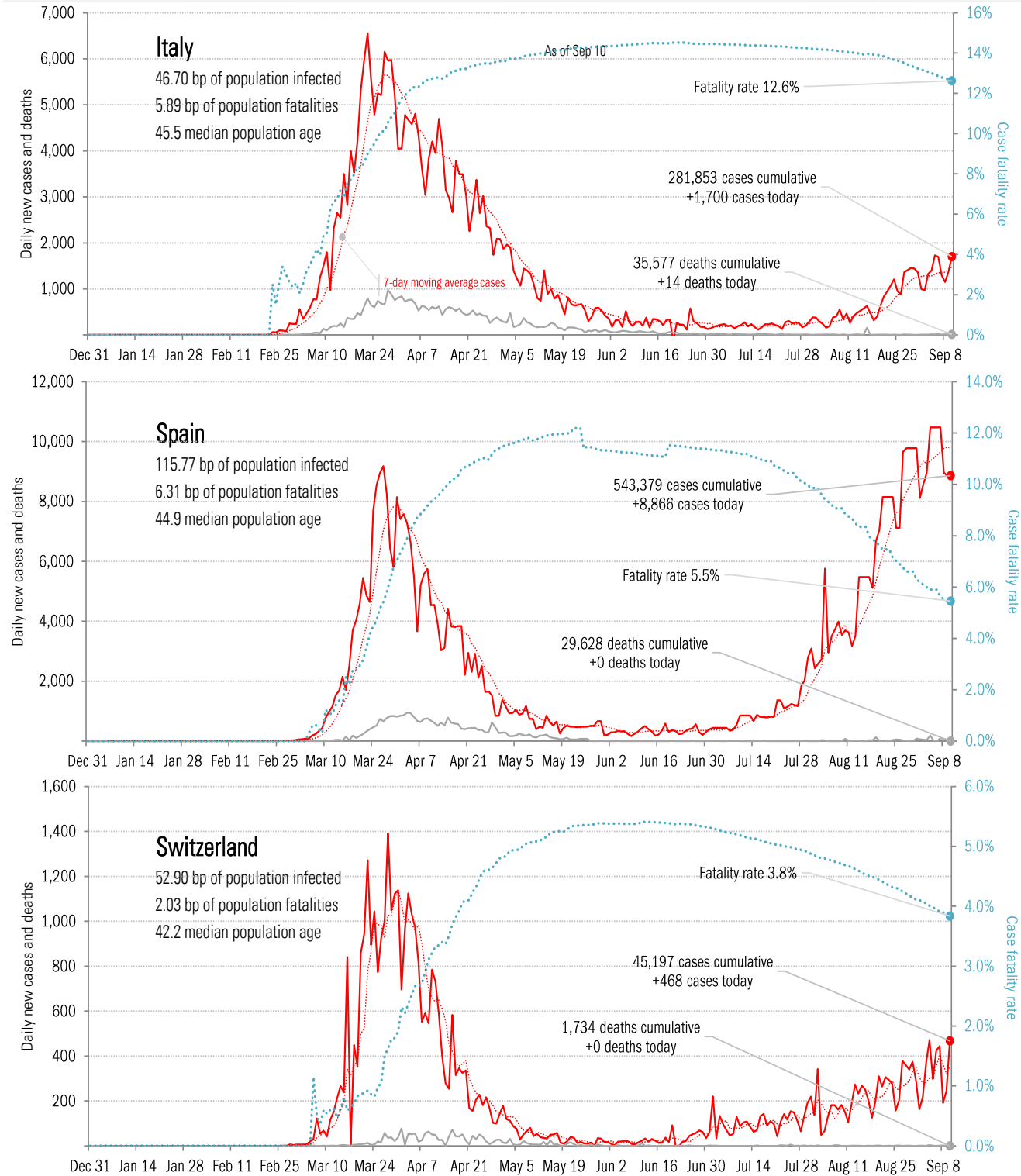
Source: [ECDC](#), TrendMacro calculations

# Impact in The Anglosphere



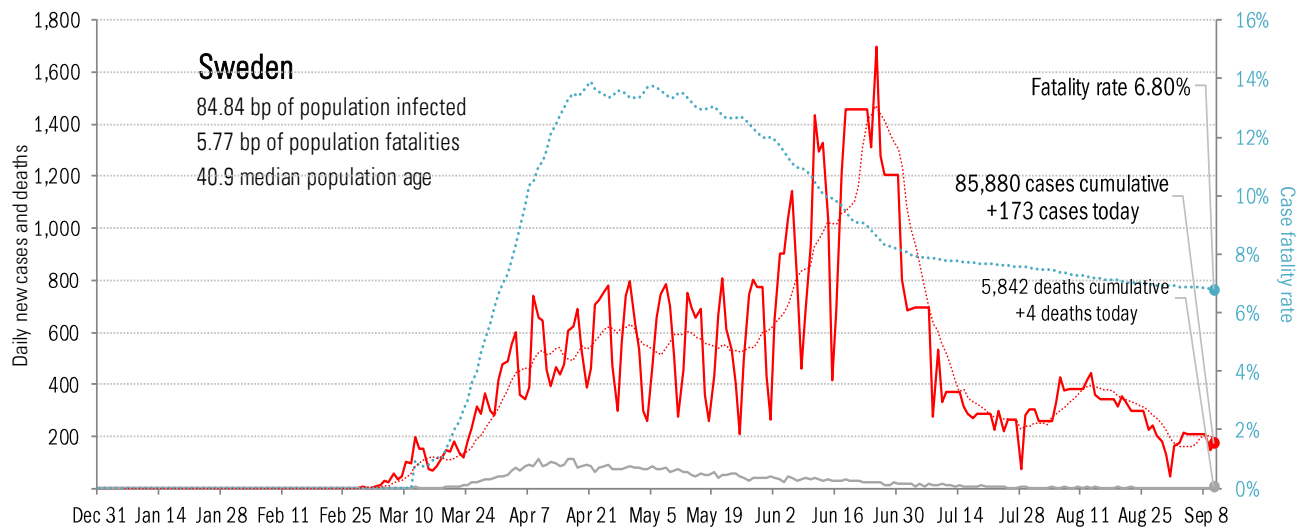
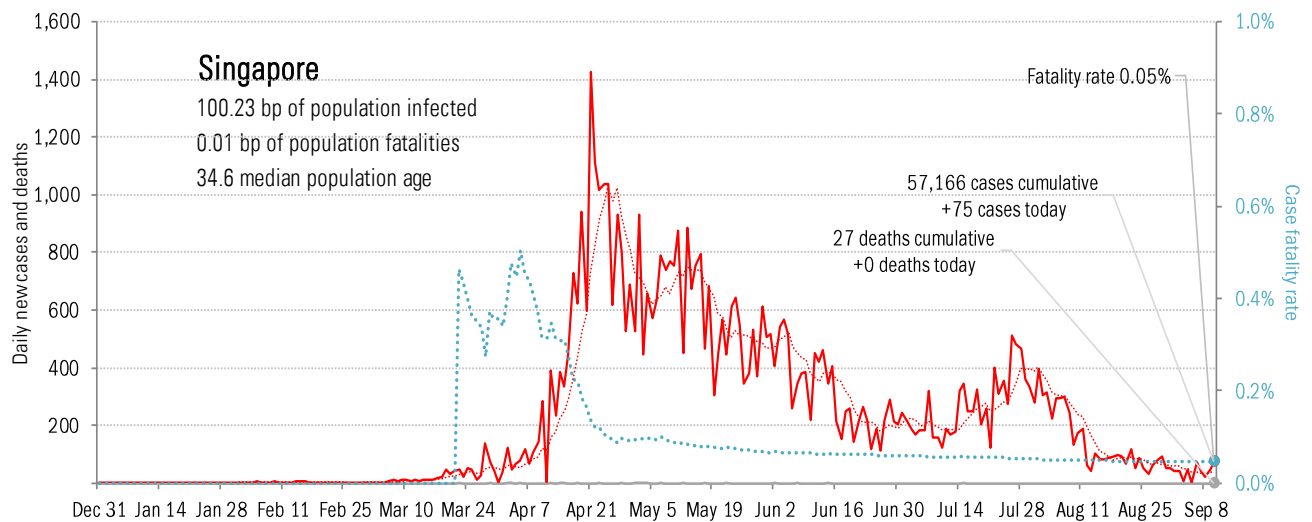
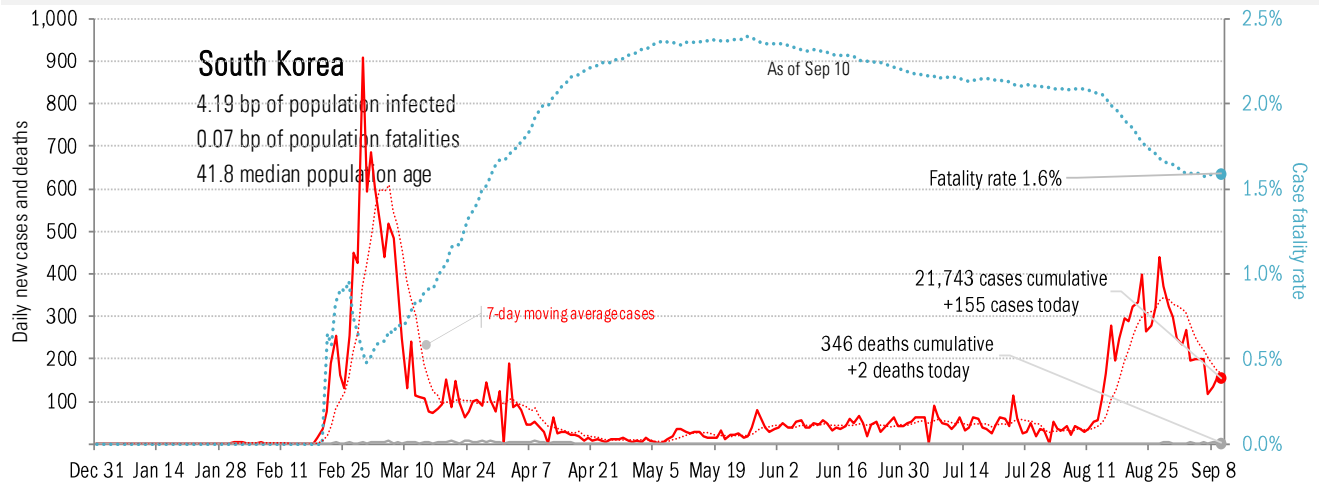
Source: [ECDC](#), TrendMacro calculations

# Impact in continental Europe



Source: [ECDC](#), TrendMacro calculations

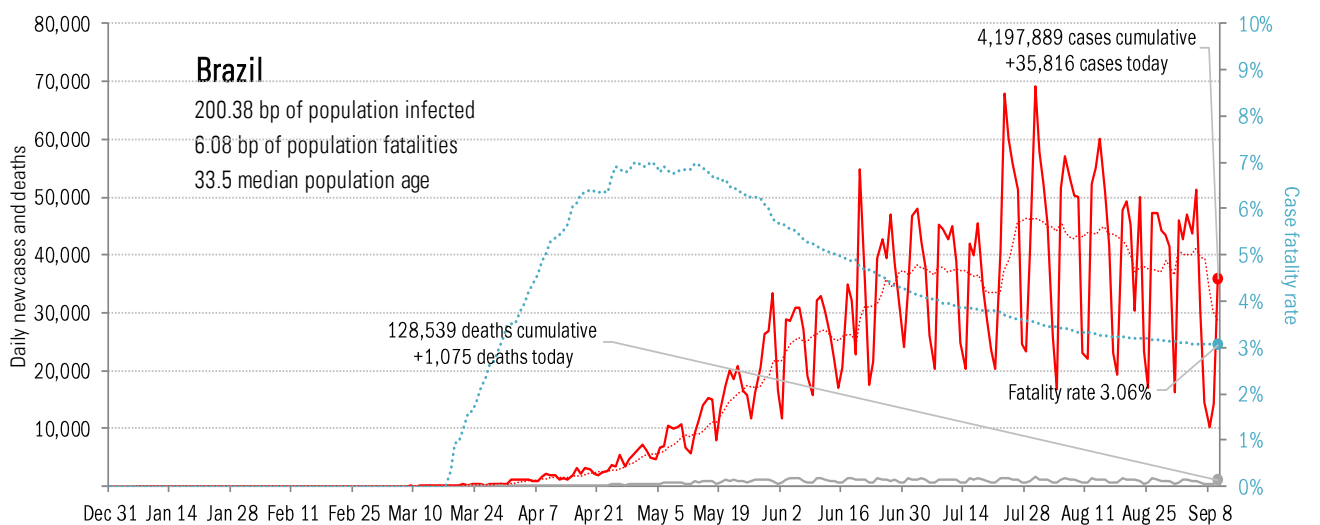
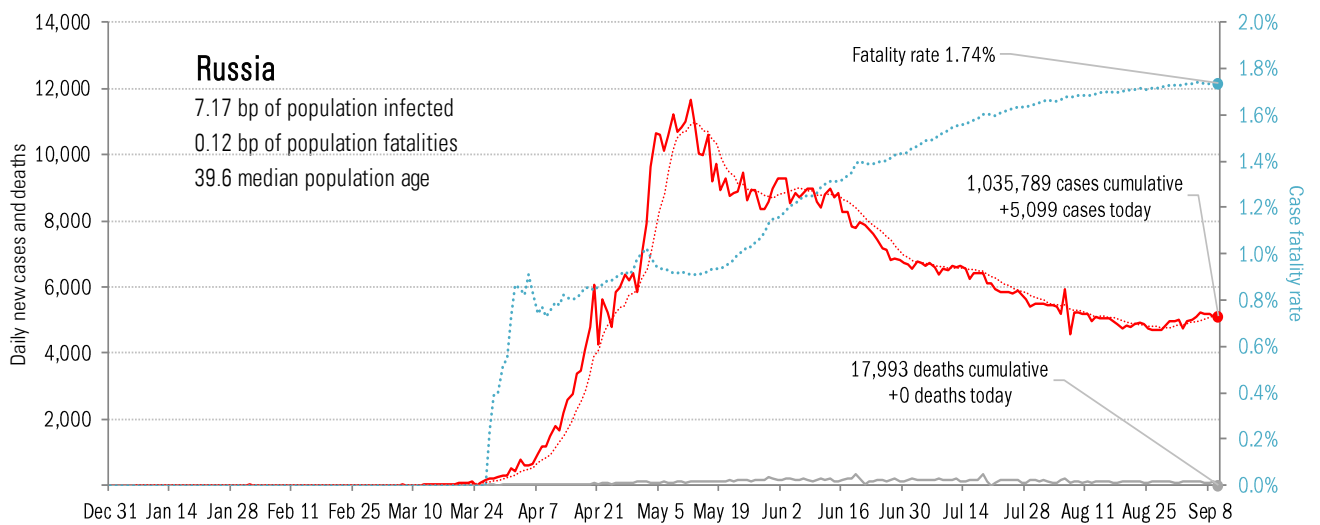
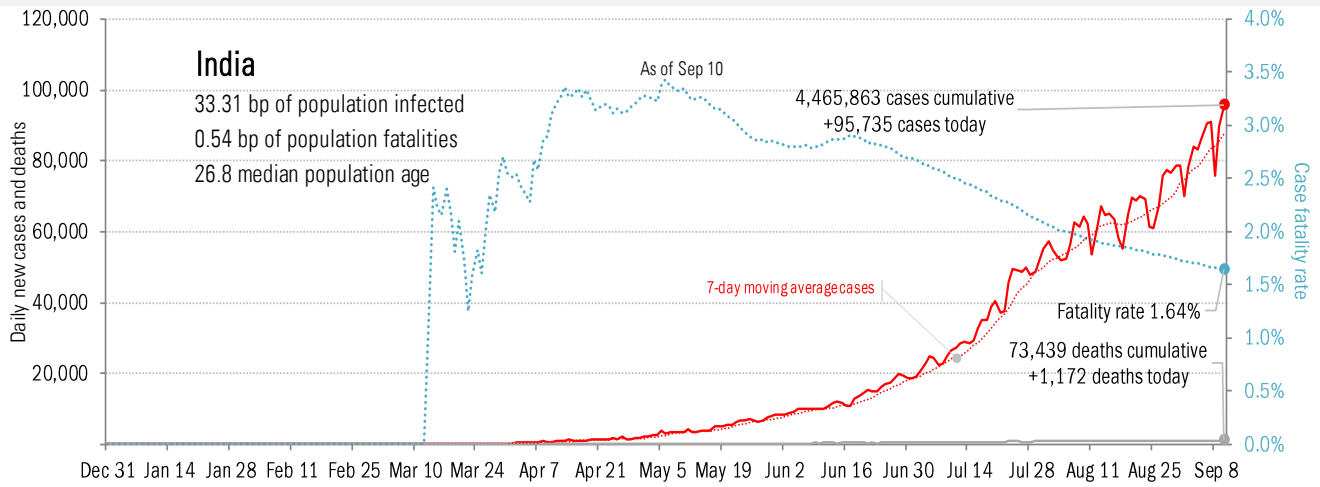
# Impact in other hot-spots



Source: [ECDC](#), TrendMacro calculations

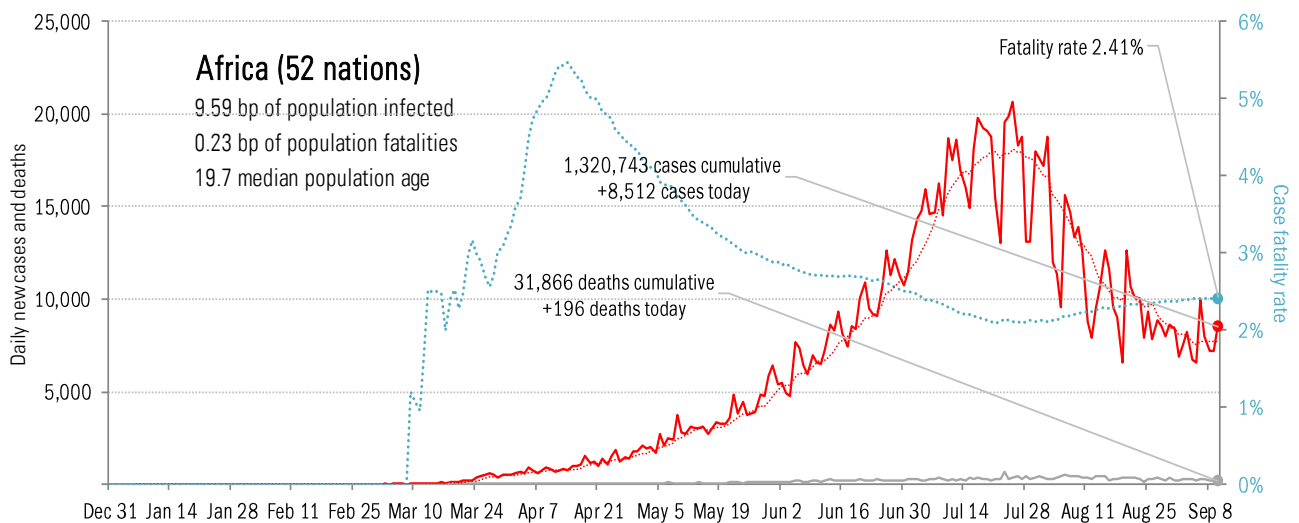
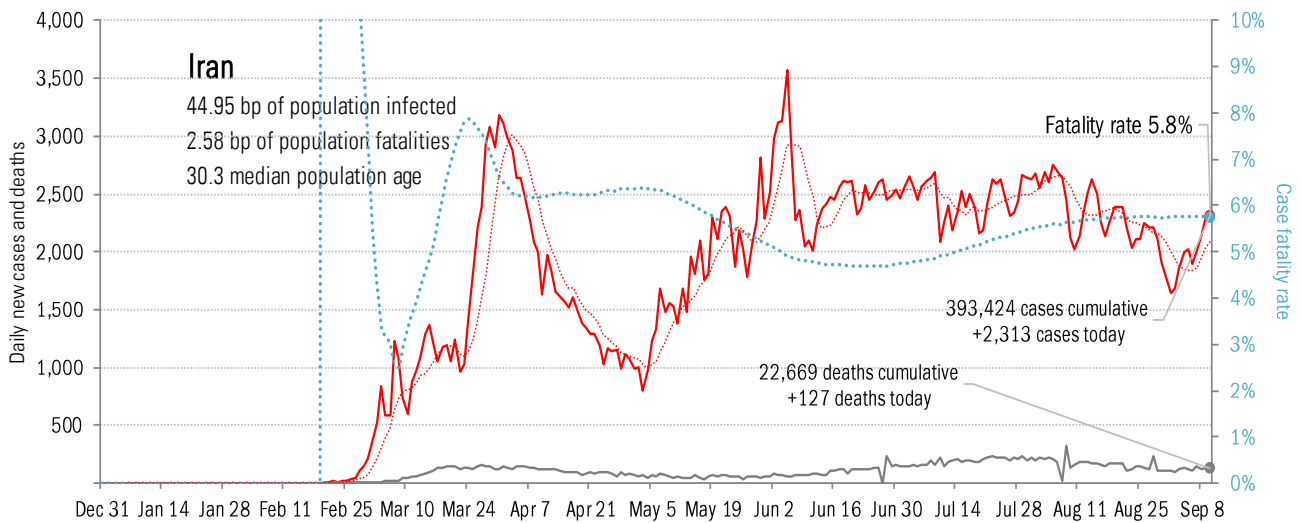
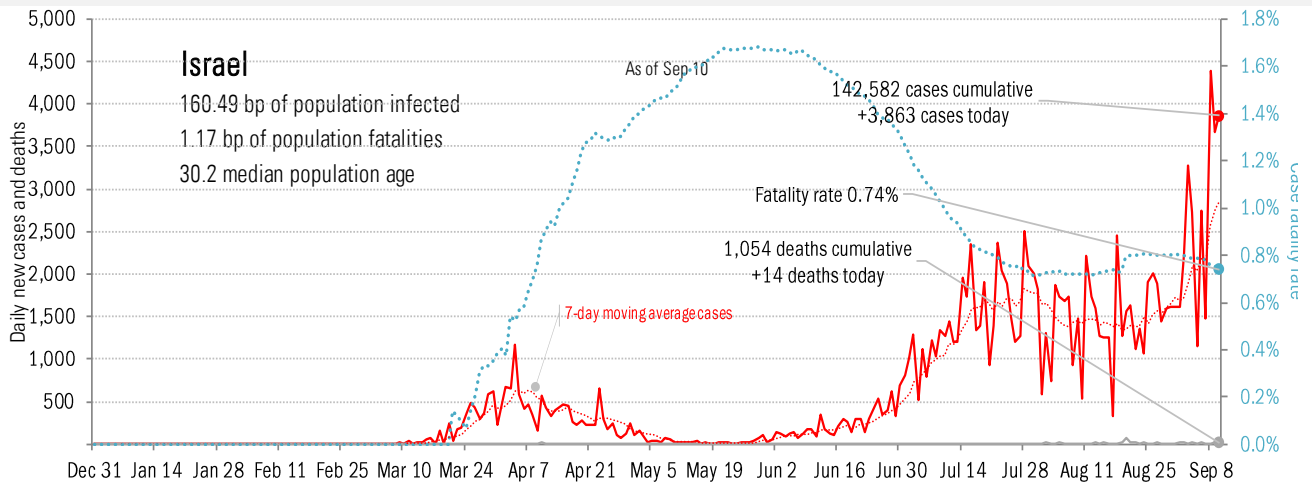


# Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

# Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations