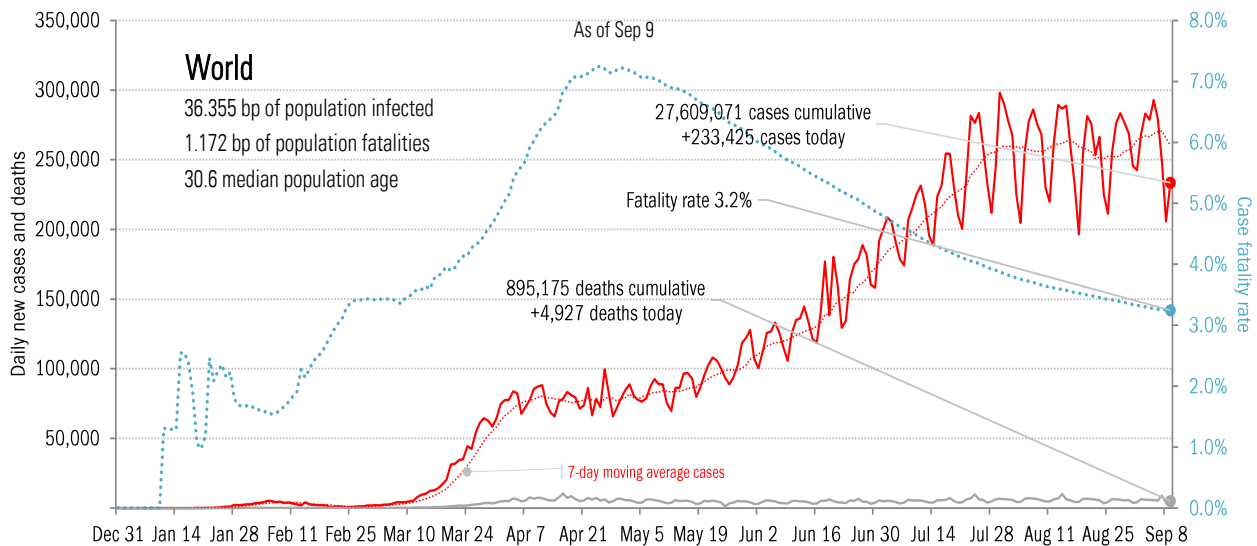
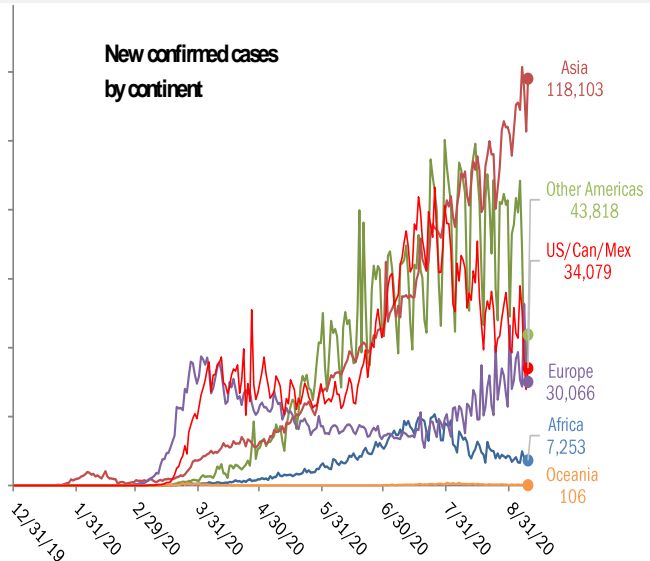


## Data Insights: Covid-2019 Monitor

Wednesday, September 9, 2020

### The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+89,706	India	+1,115
US	+27,122	Mexico	+703
Brazil	+14,279	Brazil	+504
Argentina	+9,215	US	+471
Colombia	+7,665	Argentina	+267
France	+6,544	Colombia	+202
Mexico	+5,351	Peru	+147
Russia	+5,099	Iran	+132
Ukraine	+4,962	Russia	+122
Iraq	+4,894	Ukraine	+102
<b>+174,837</b>		<b>+3,765</b>	
World	+233,425	World	+4,927
Top ten	75%	Top ten	76%



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

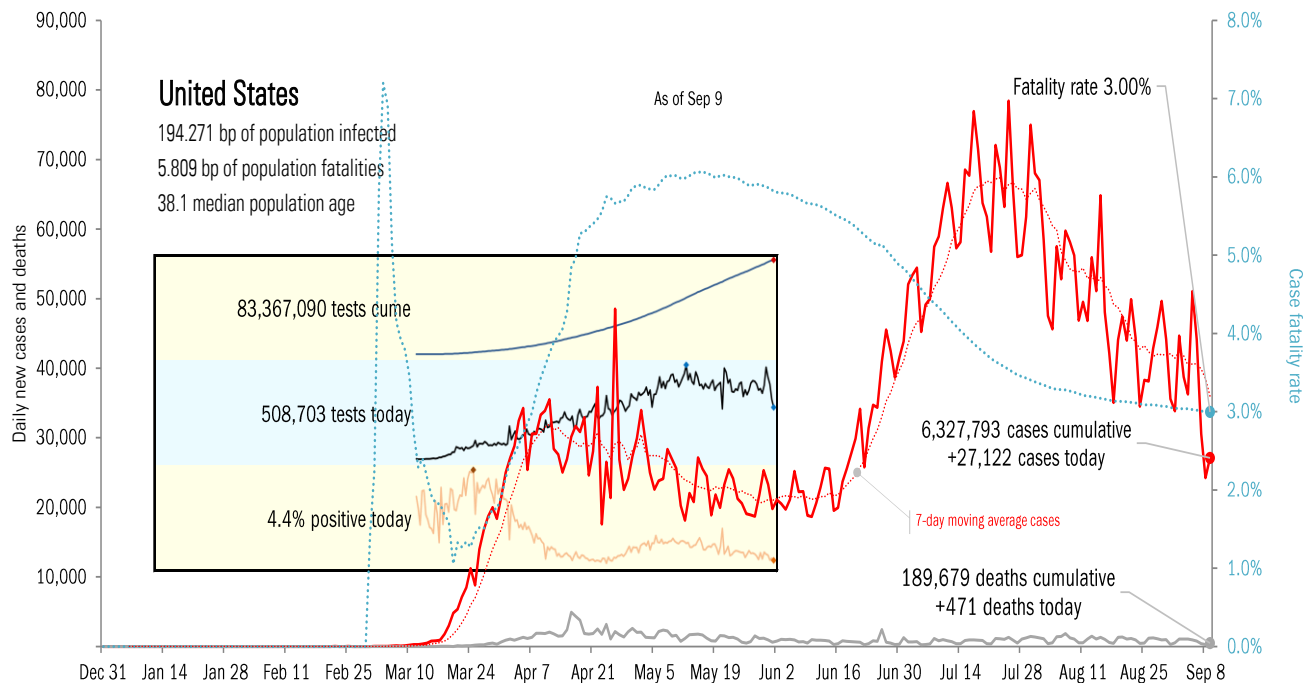
National and state-by-state data do not line up because of different sources

## The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
CA	+2,676	TX	+61	AL	+223	CA	737,911	NY	25,367	NY	89,995
FL	+1,823	FL	+44	FL	+114	FL	650,092	NJ	15,996	FL	40,661
GA	+1,543	CA	+32	MS	+84	TX	641,791	CA	13,758	GA	25,589
TX	+1,421	TN	+27	CH	+80	NY	440,578	TX	13,553	NJ	22,812
IL	+1,392	GA	+26	IN	+57	GA	285,350	FL	12,067	AZ	21,522
VA	+836	CH	+22	GA	+51	IL	254,281	MA	9,141	VA	16,831
OK	+833	LA	+13	OR	+45	AZ	206,045	IL	8,405	AL	15,137
MO	+773	IA	+12	TN	+43	NJ	194,667	PA	7,791	MD	14,636
WI	+749	IN	+12	AR	+38	NC	178,635	MI	6,811	CH	13,967
NC	+716	NC	+12	MD	+33	TN	165,754	GA	6,070	MA	12,368
<b>+12,762</b>		<b>+261</b>		<b>+768</b>		<b>3,755,104</b>		<b>118,959</b>		<b>273,518</b>	
All states	+22,219	All states	+358	All states	+959	All states	6,298,422	All states	181,690	All states	379,866
Top ten	57%	Top ten	73%	Top ten	80%	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	
KS	-1,694	SC	-15	KS	-26	TX	+9,997
MI	-713	PA	-9	WA	-18	MS	+6,180
FR	-713	AR	-5	SC	-16	TN	+1,952
TX	-639	KS	-4	KY	-13	CH	+1,701
AR	-577	NV	-4	VA	-9	IN	+924



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

## Recommended reading

### [What bats can teach us about developing immunity to Covid-19](#)

Clive Cookson, Anna Gross and Ian Bott  
*Financial Times*  
September 7, 2020

### [Developing Safe and Effective Covid Vaccines — Operation Warp Speed's Strategy and Approach](#)

Moncef Slaoui and Matthew Hepburn  
*New England Journal of Medicine*  
August 26, 2020

### [Poll: Coronavirus fatigue may be setting in as more see pandemic as economic crisis](#)

Ben Kamisar and Melissa Holzberg  
*NBC News*  
September 8, 2020

### [Hydroxychloroquine is Effective and Safe for the Treatment of COVID-19, and May be Universally Effective When Used Early Before Hospitalization: A Systematic Review](#)

Chadwick C Prodromos and Tobias Rumschlag  
*Research Gate*  
September 2020

### [In four U.S. state prisons, nearly 3,300 inmates test positive for coronavirus -- 96% without symptoms](#)

Linda So and Grant Smith  
*Reuters*  
September 8, 2020

### [Five things to know about Trump's payroll tax deferral](#)

Naomi Jagoda  
*The Hill*  
September 7, 2020

### [Macomb County's Hackel, a Democrat, backs petition to limit Whitmer's emergency power](#)

Craig Mauger  
*Detroit News*  
September 2, 2020

### [Coronavirus Vaccine Roundup, Early September](#)

Derek Lowe  
*Science Translational Medicine*  
September 3, 2020

### [German lockdown was too harsh says health minister](#)

Derek Scally  
*Irish Times*  
September 2, 2020

### [Why has Switzerland handled this crisis better than almost anyone else in Europe?](#)

Jonathan Saxty  
*Daily Telegraph*  
September 4, 2020

## Meme of day

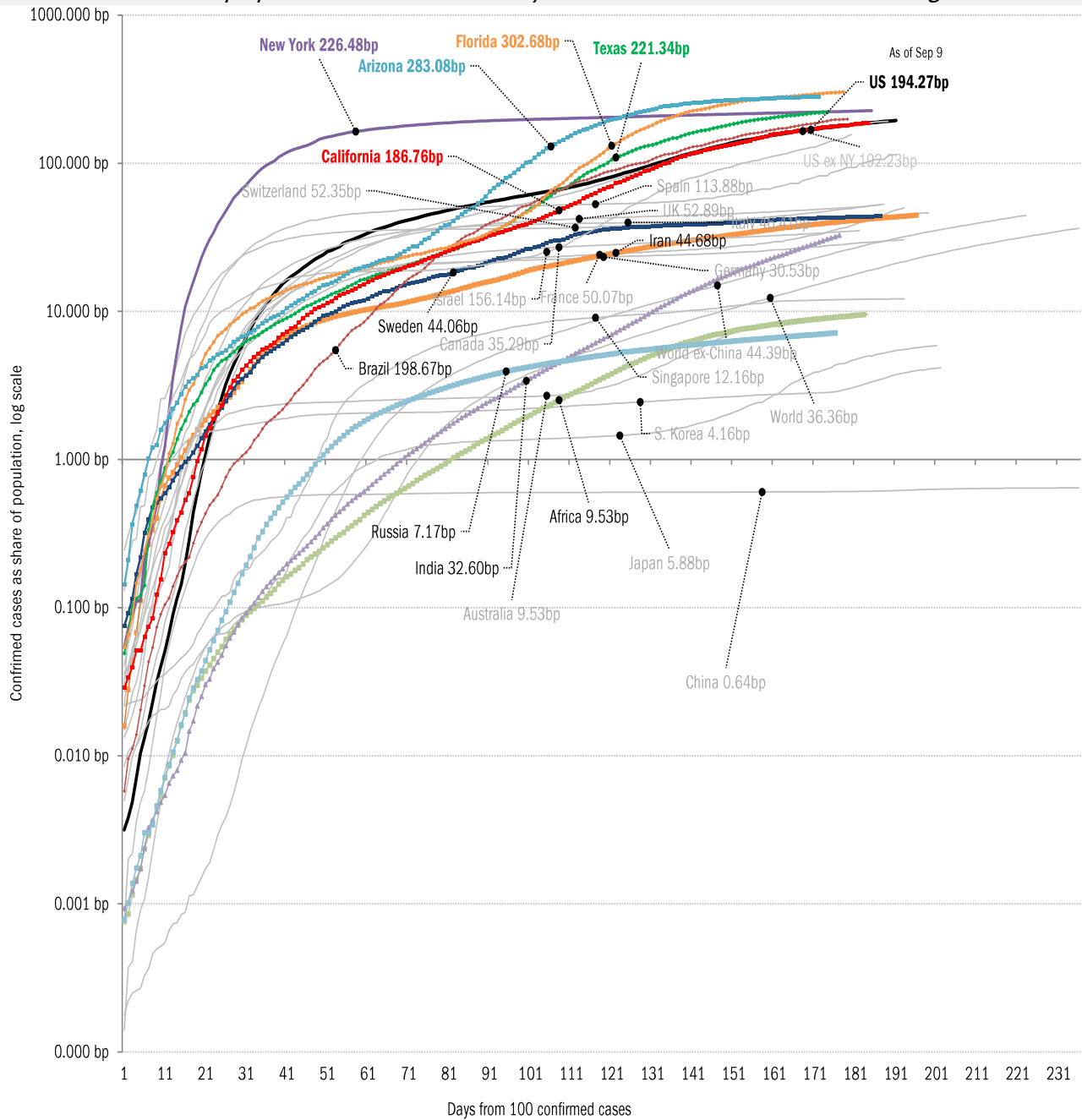
**This isn't the mask you wore to school this morning.**



**No, this one is way cooler.  
I traded mine to Taylor  
who traded with Hunter.**

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

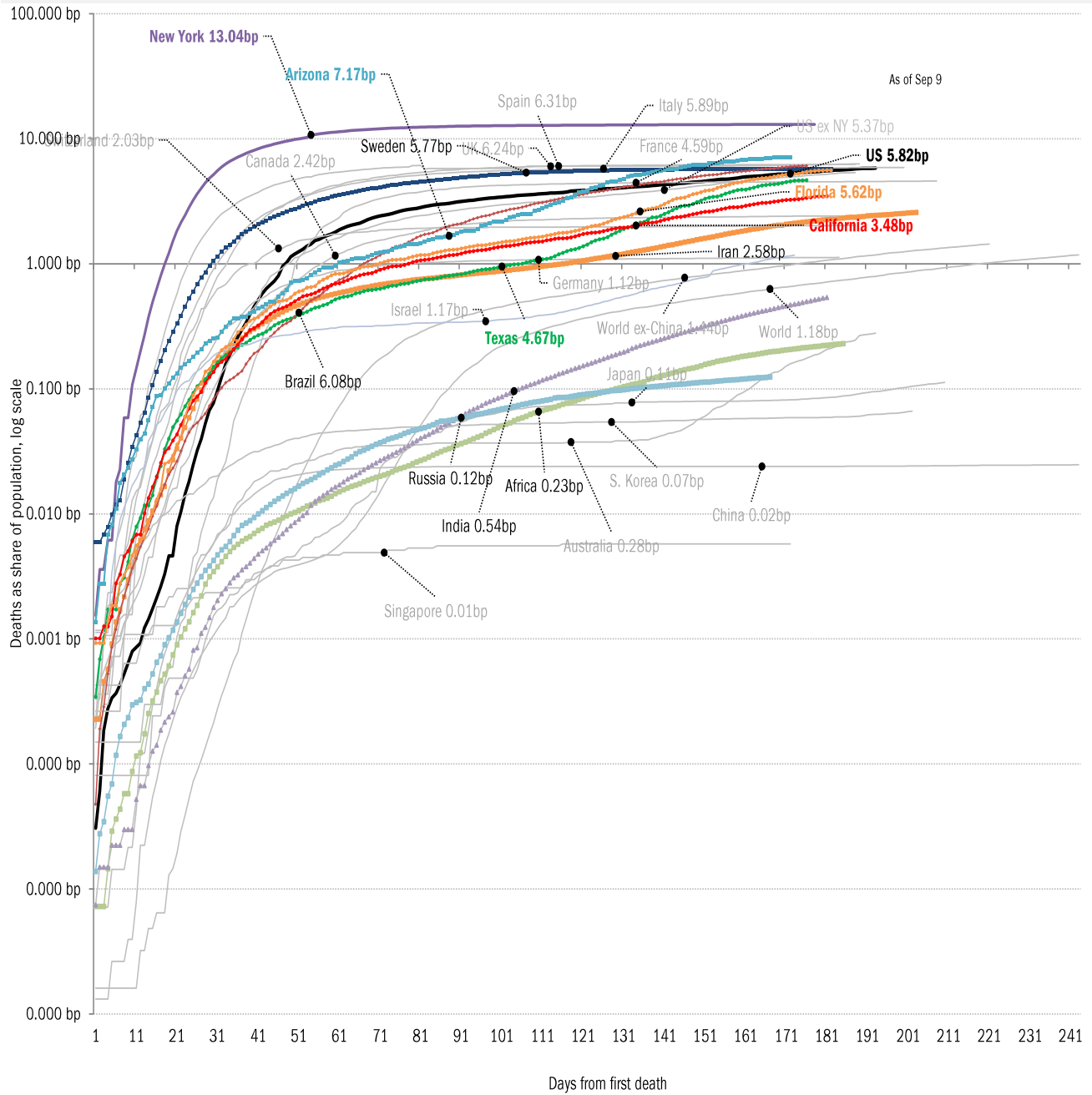
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



Source: [ECDC](#), TrendMacro calculations

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

## Share of deceased population from day of first fatality

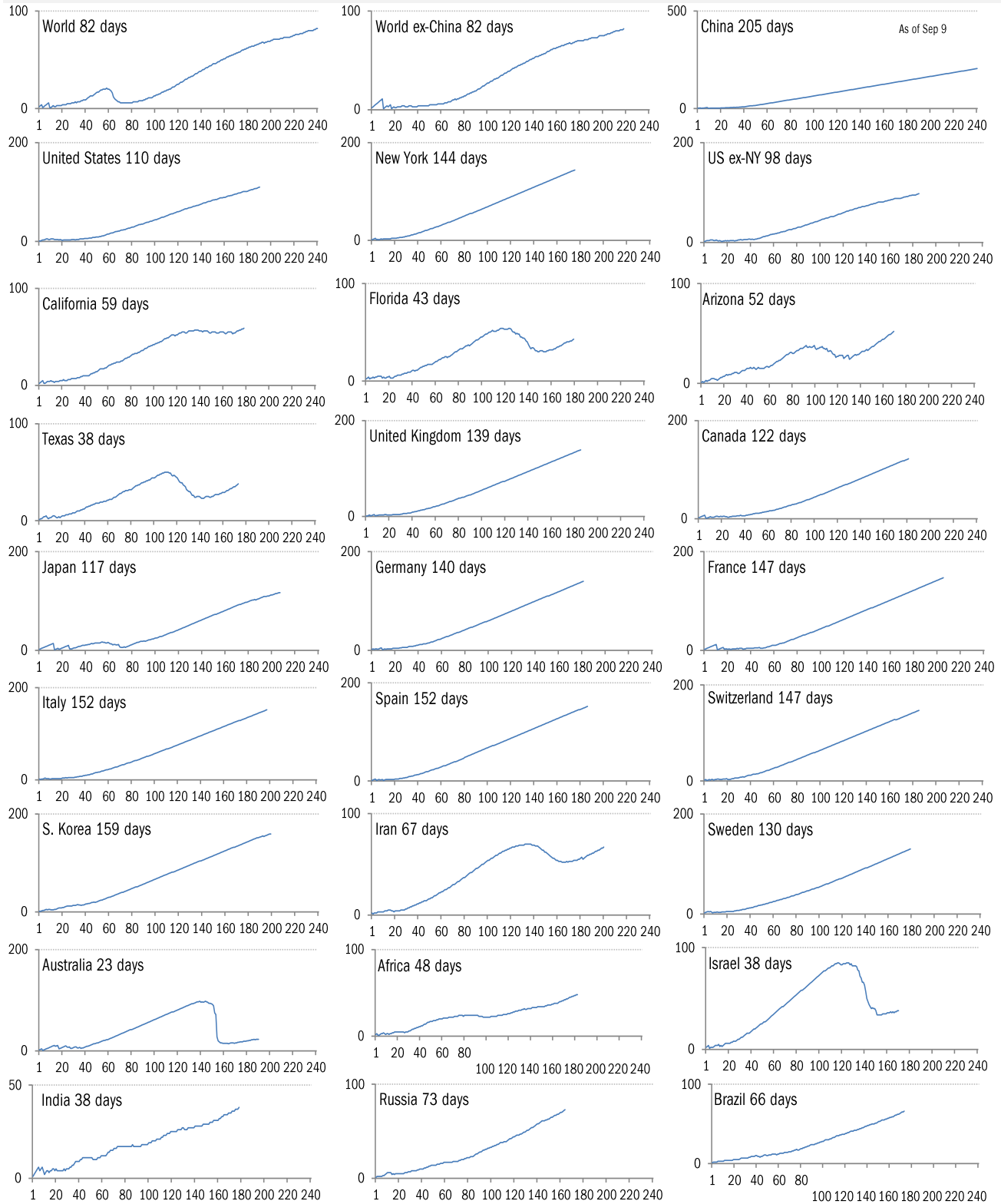


Source: [ECDC](#), TrendMacro calculations

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

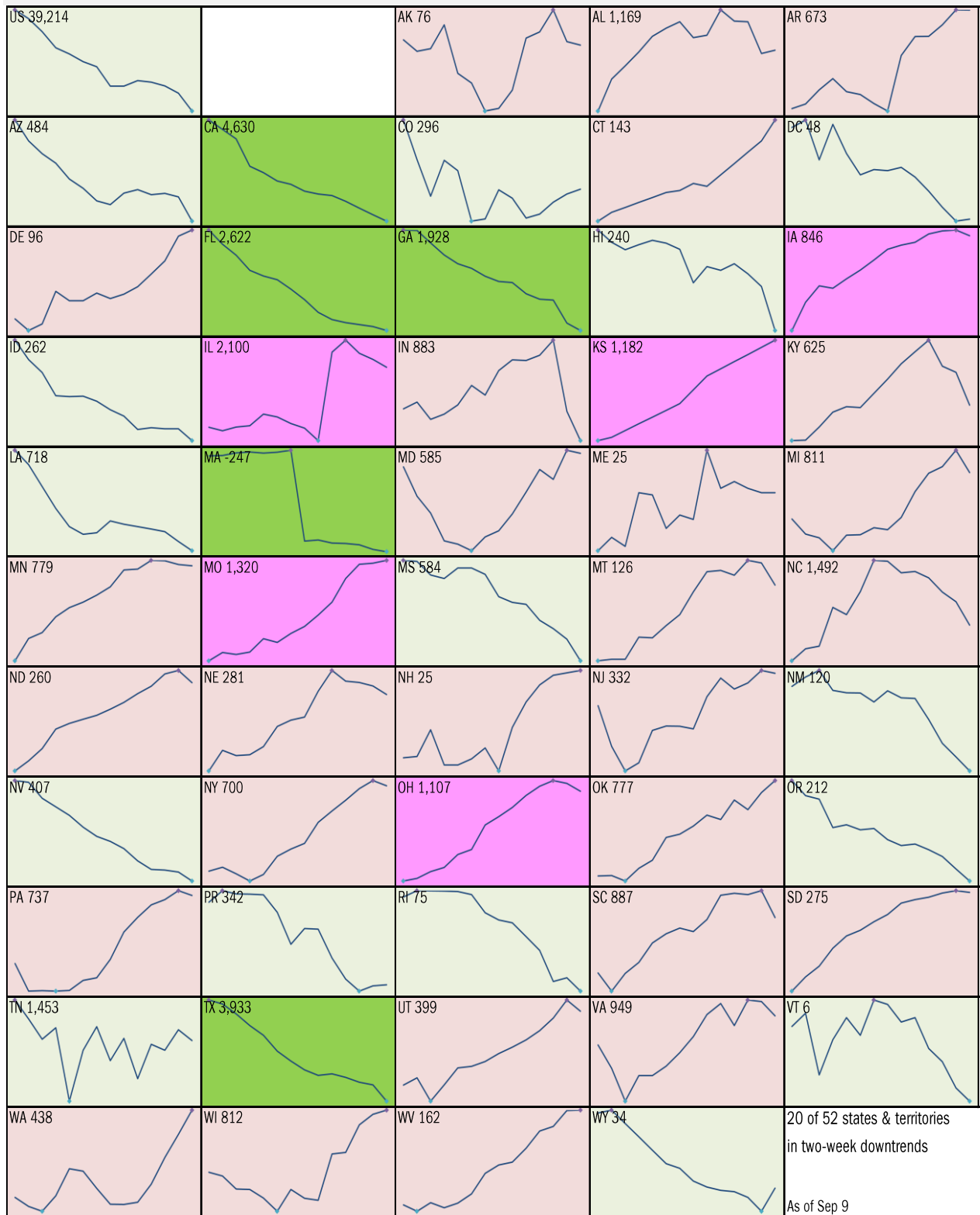
Vertical: days to double deaths Horizontal: days from first death

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



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

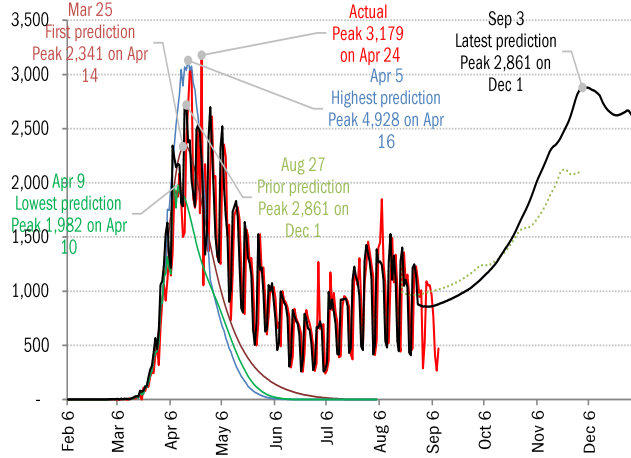


# Reality-checking the models: actuals versus [IHME](#) predictions

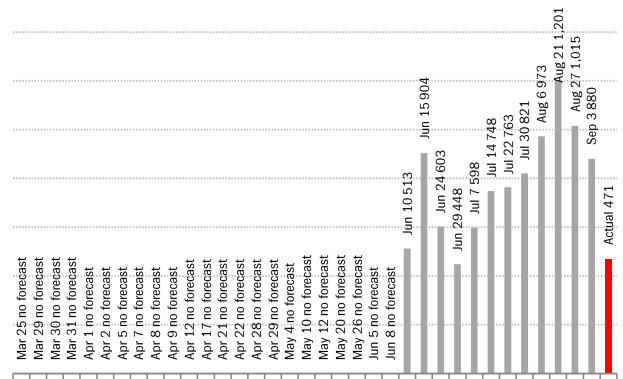
## New daily fatalities

As of Sep 9

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

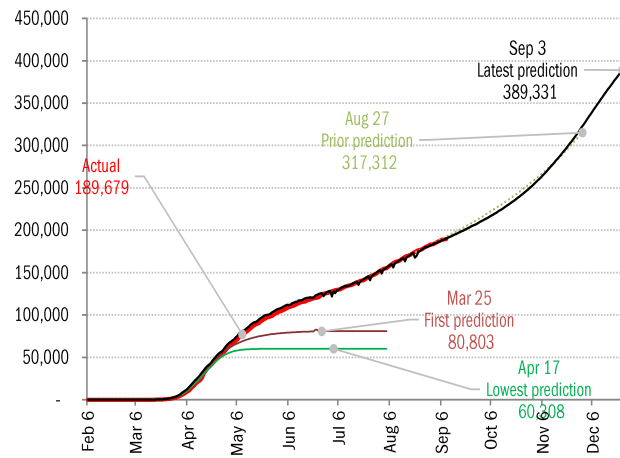


For this day, versus all model mean predictions

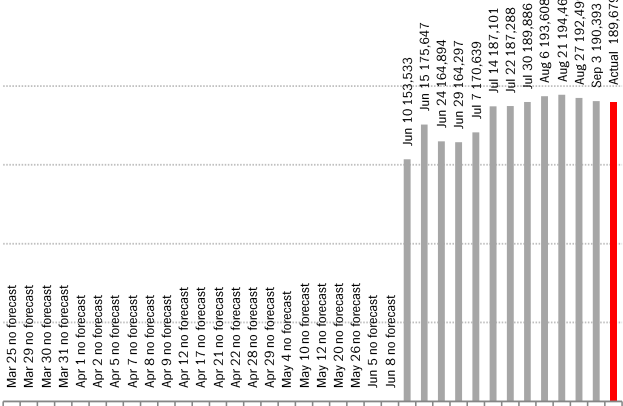


## Cumulative fatalities

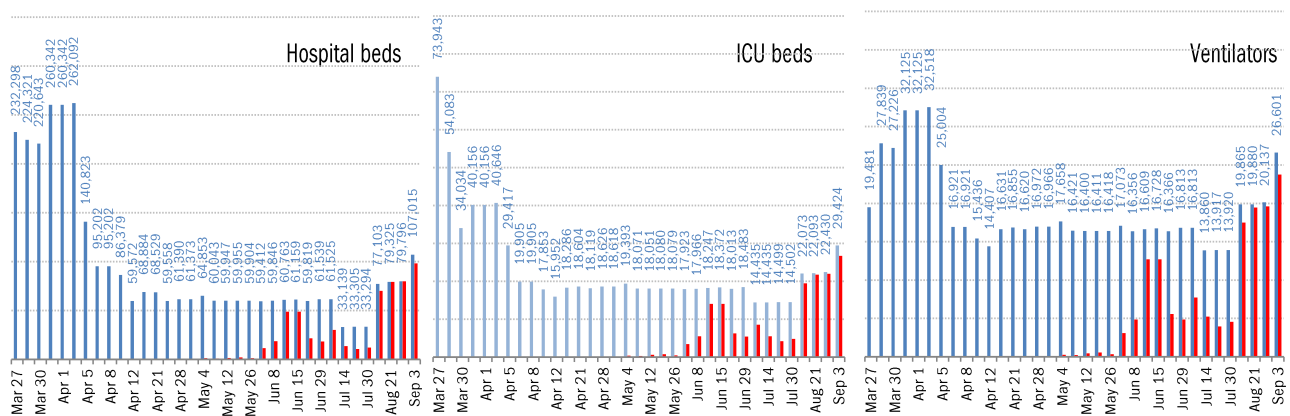
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

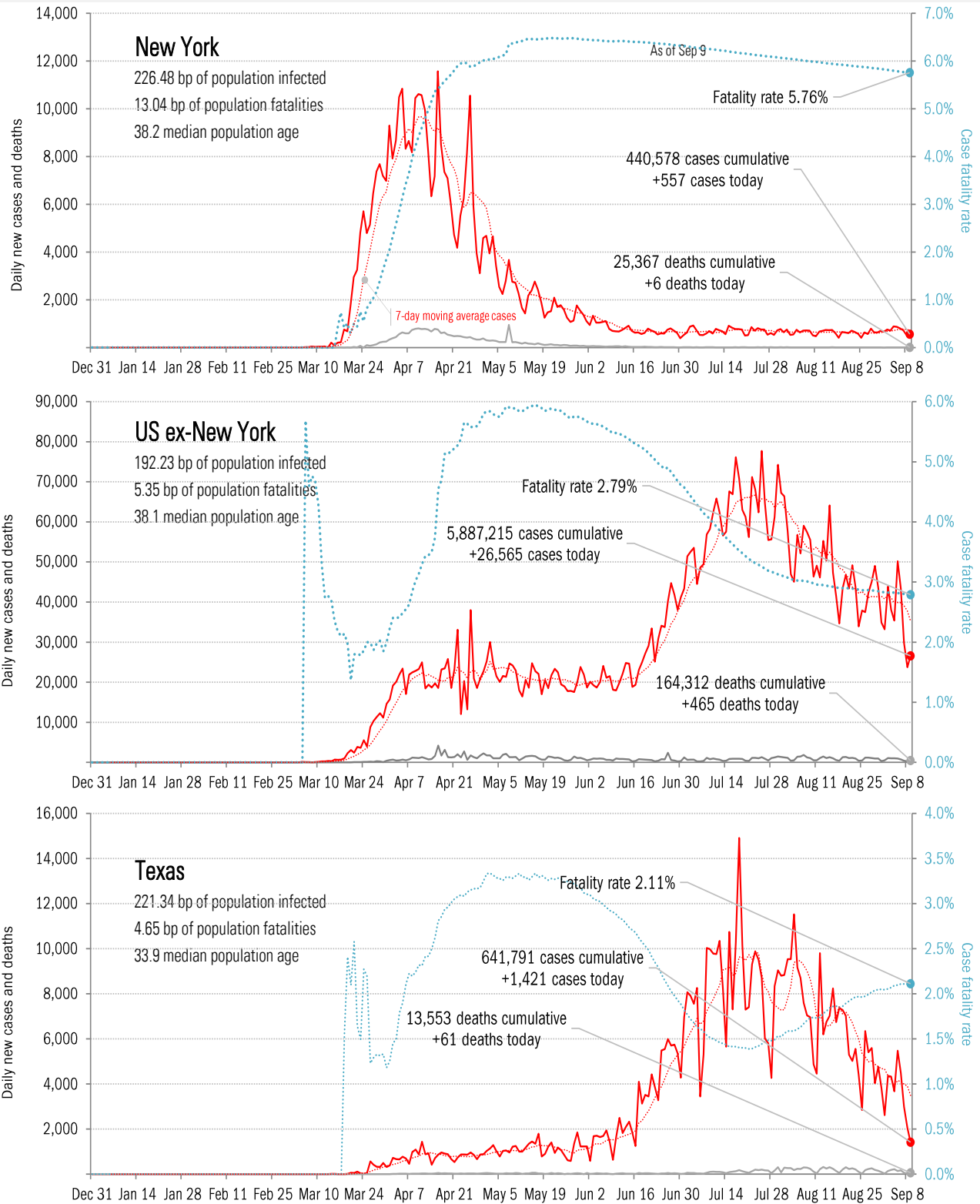


## Healthcare system stress, peak and ultimate estimated at each model revision



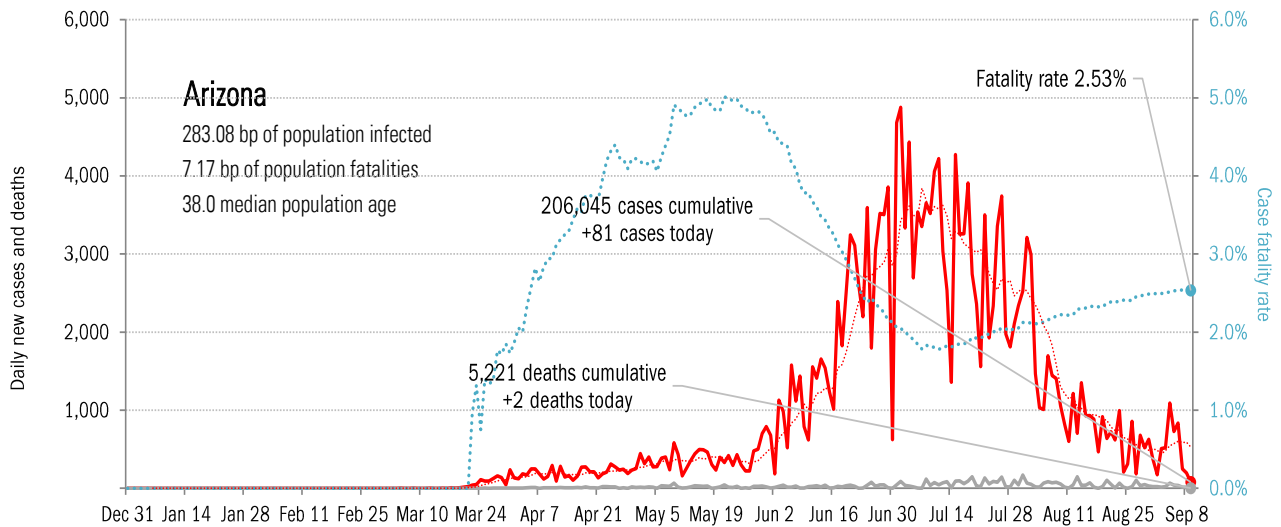
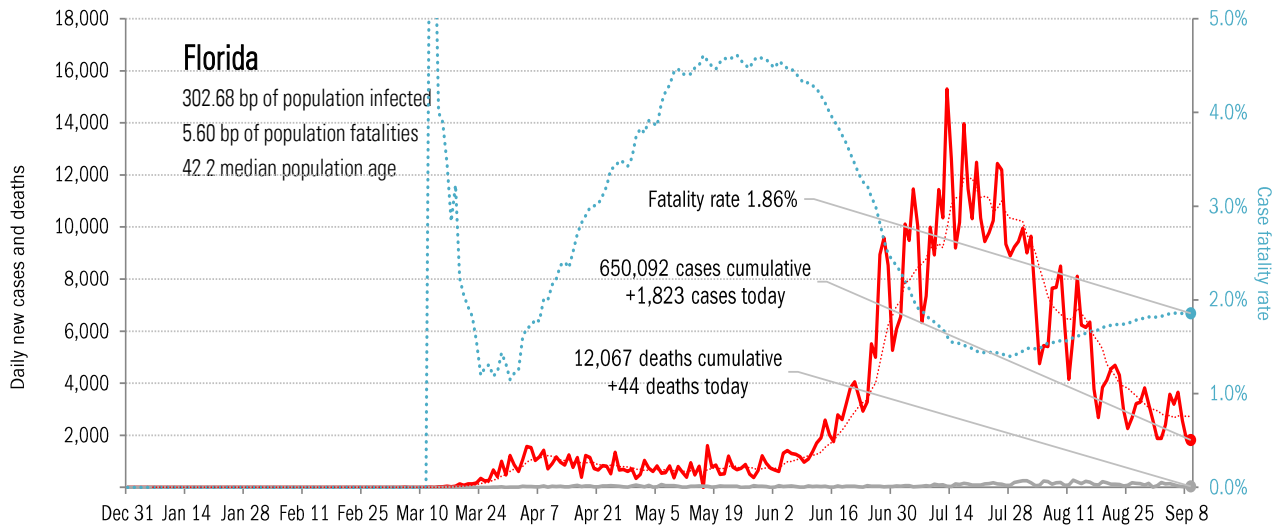
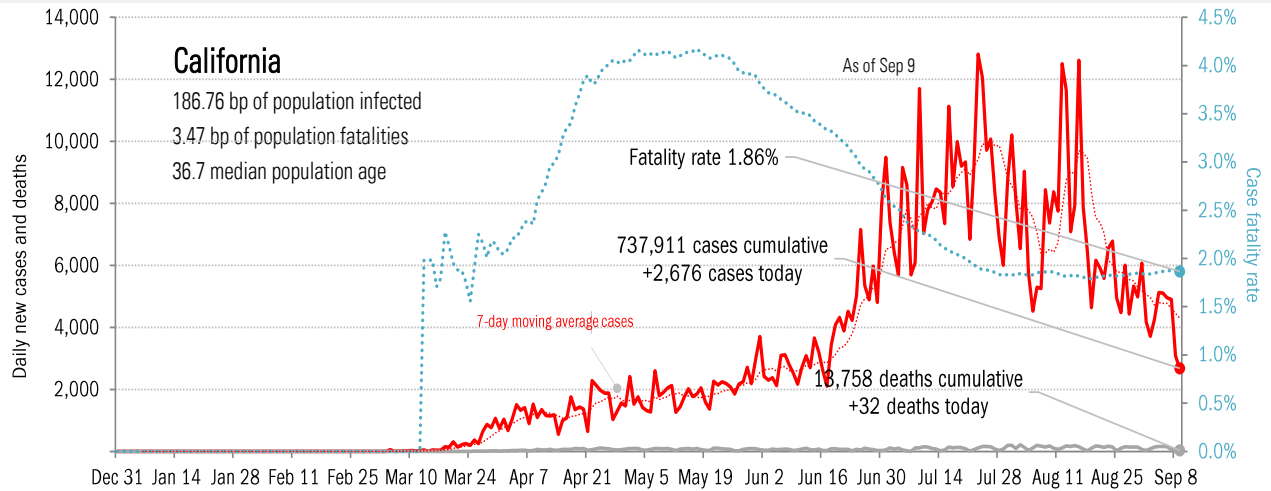
Source: [ECDC](#), [IHME](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



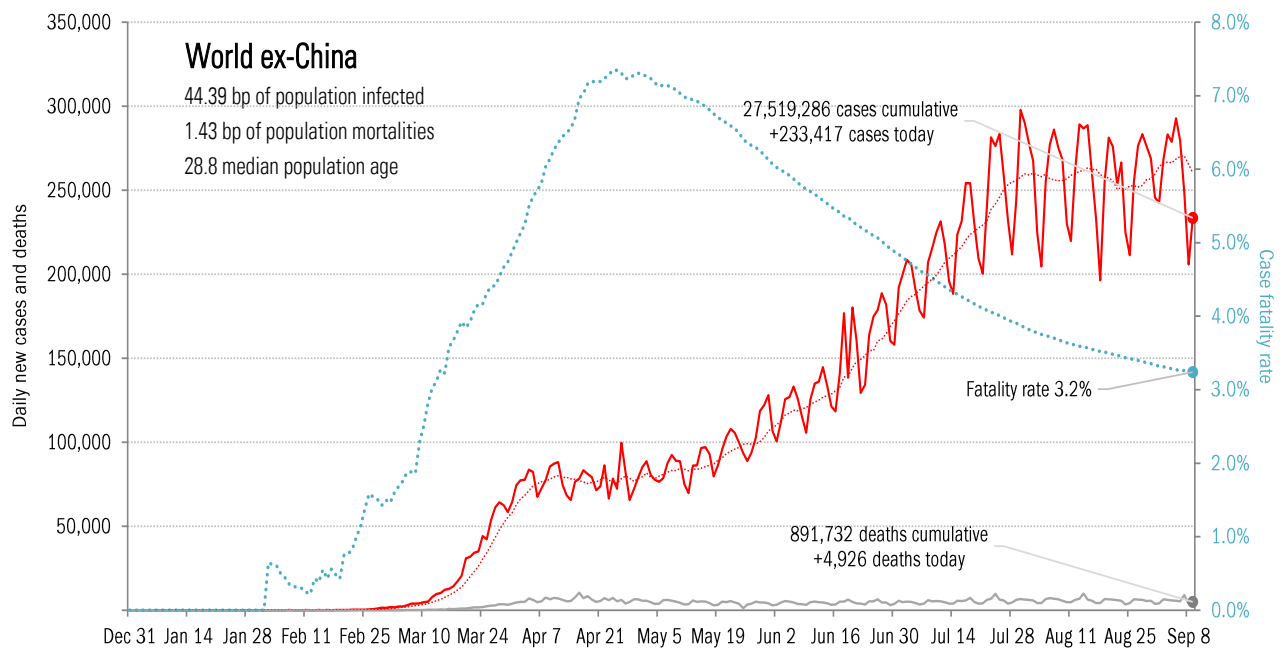
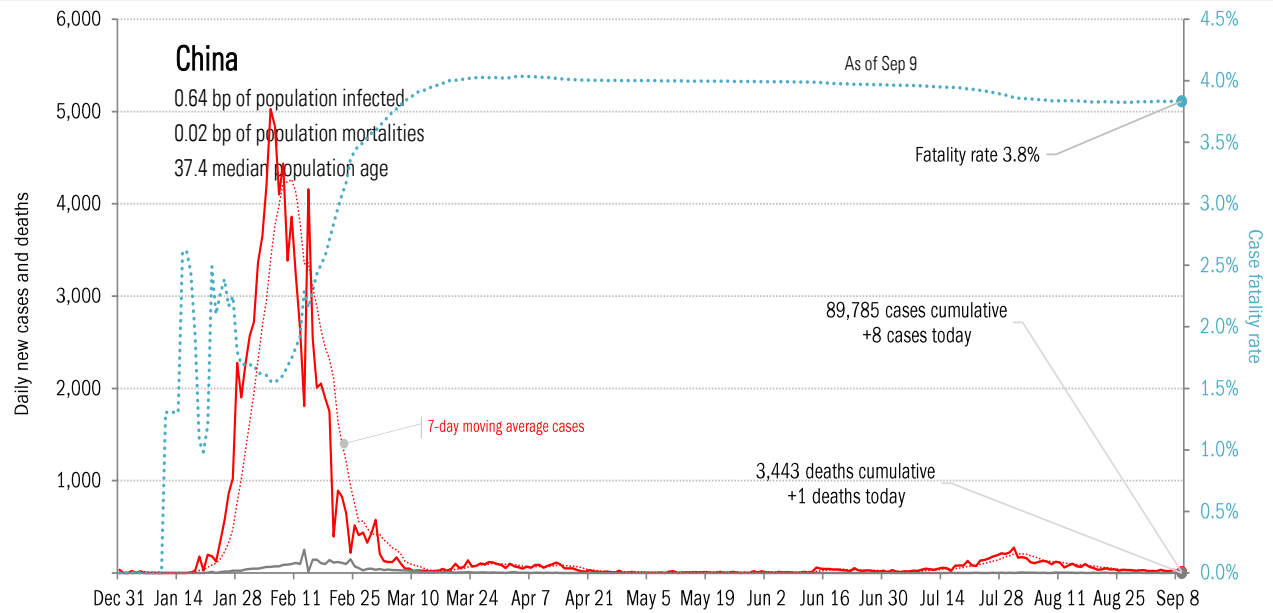
Source: [ECDC](#), TrendMacro calculations

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



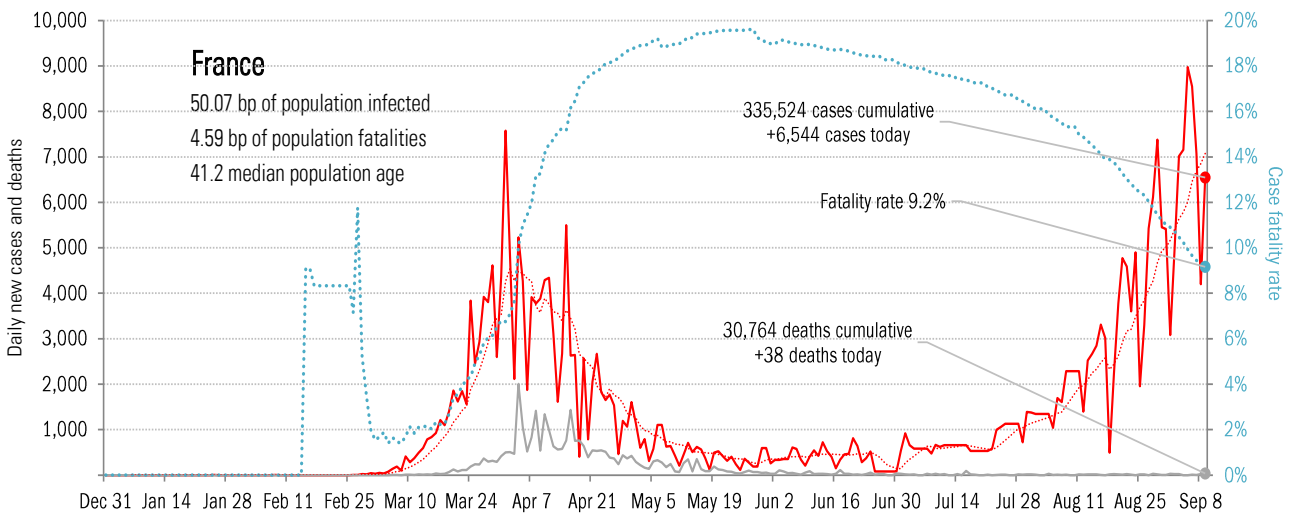
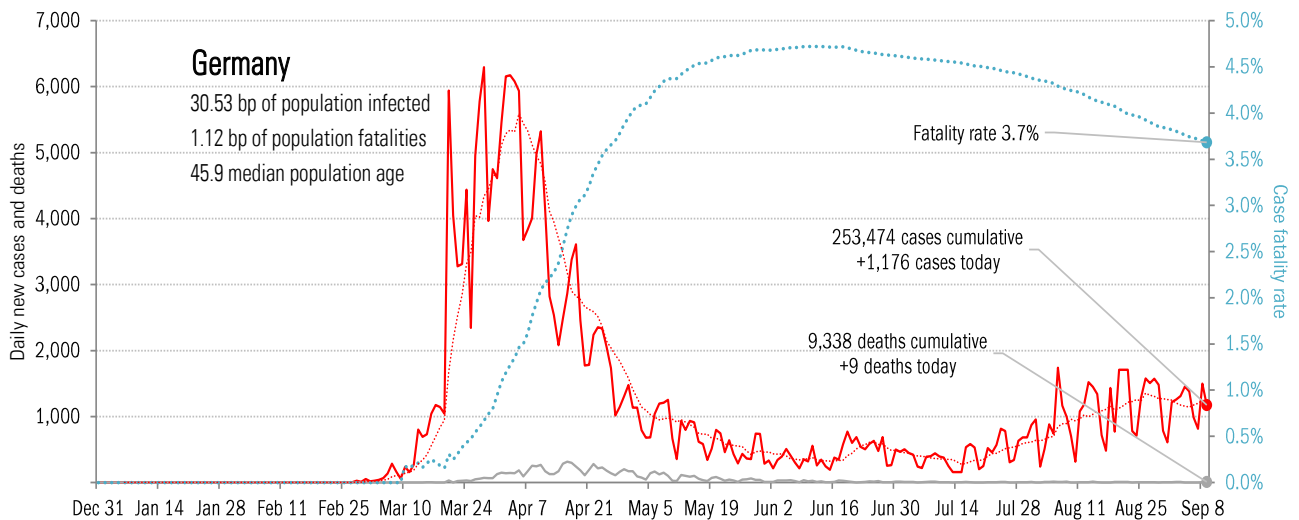
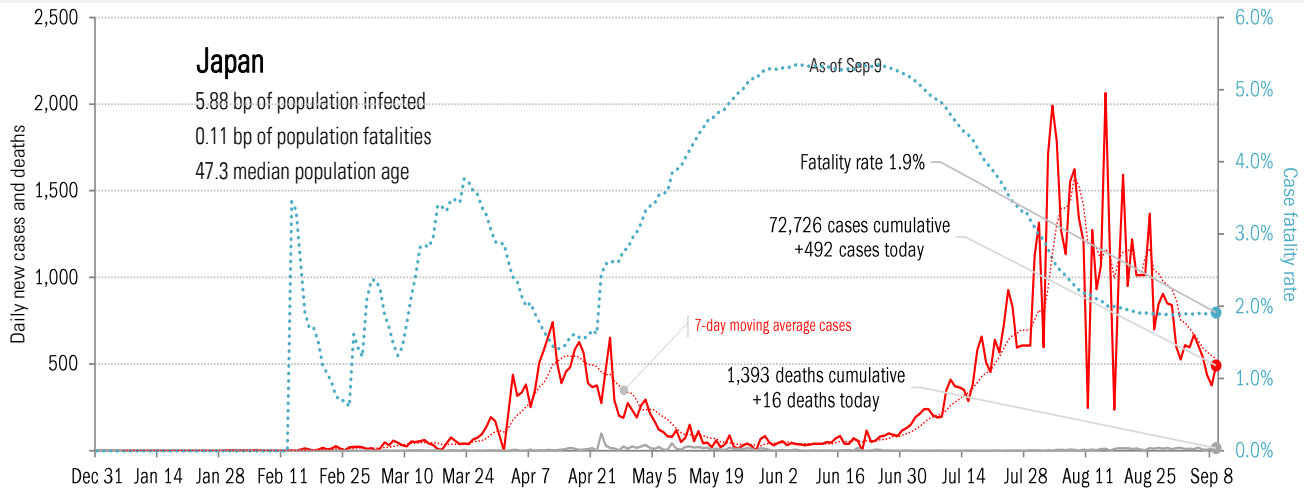
Source: [ECDC](#), TrendMacro calculations

# Patient zero... and then everyone else



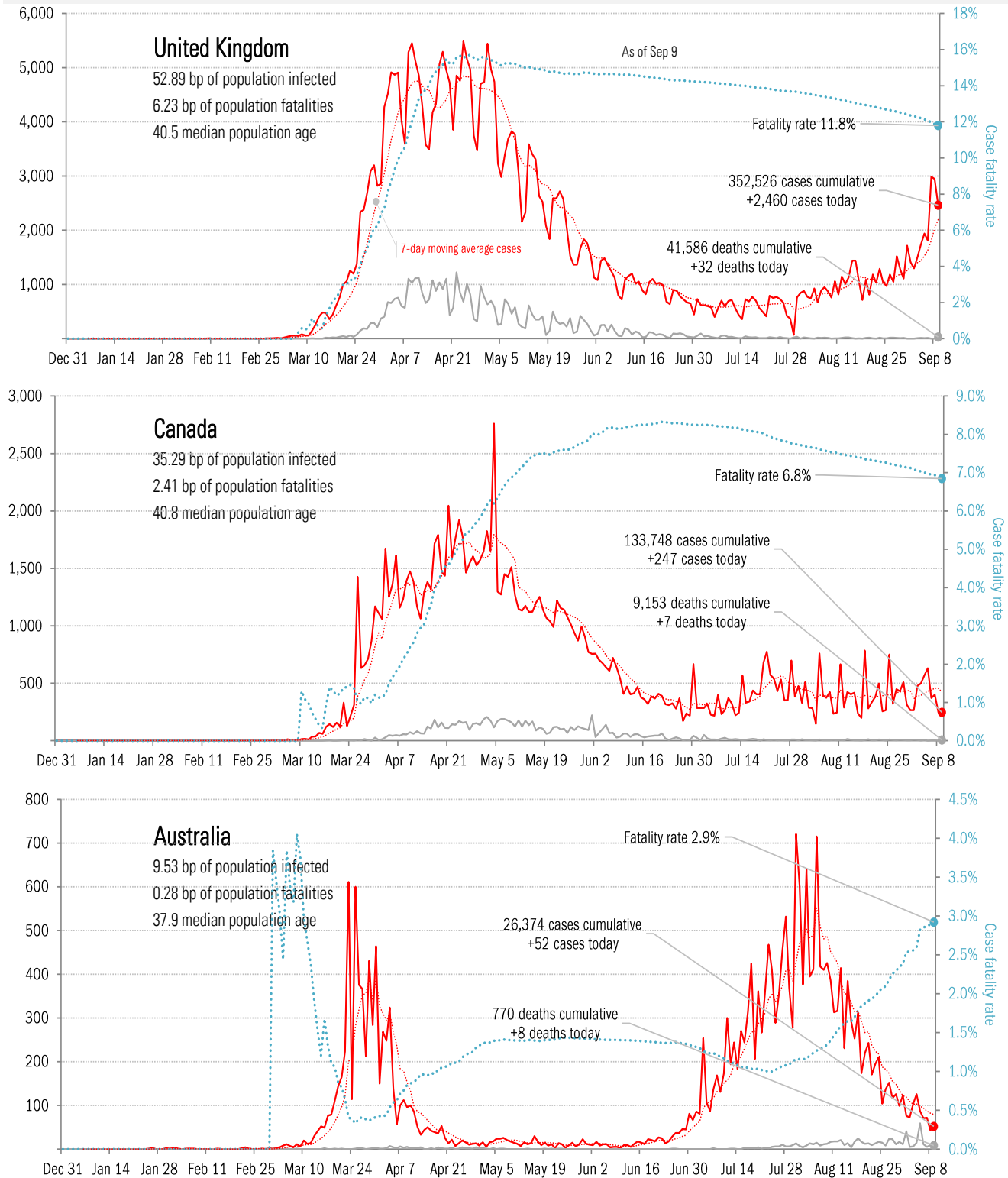
Source: [ECDC](#), TrendMacro calculations

# Impact in the largest economies



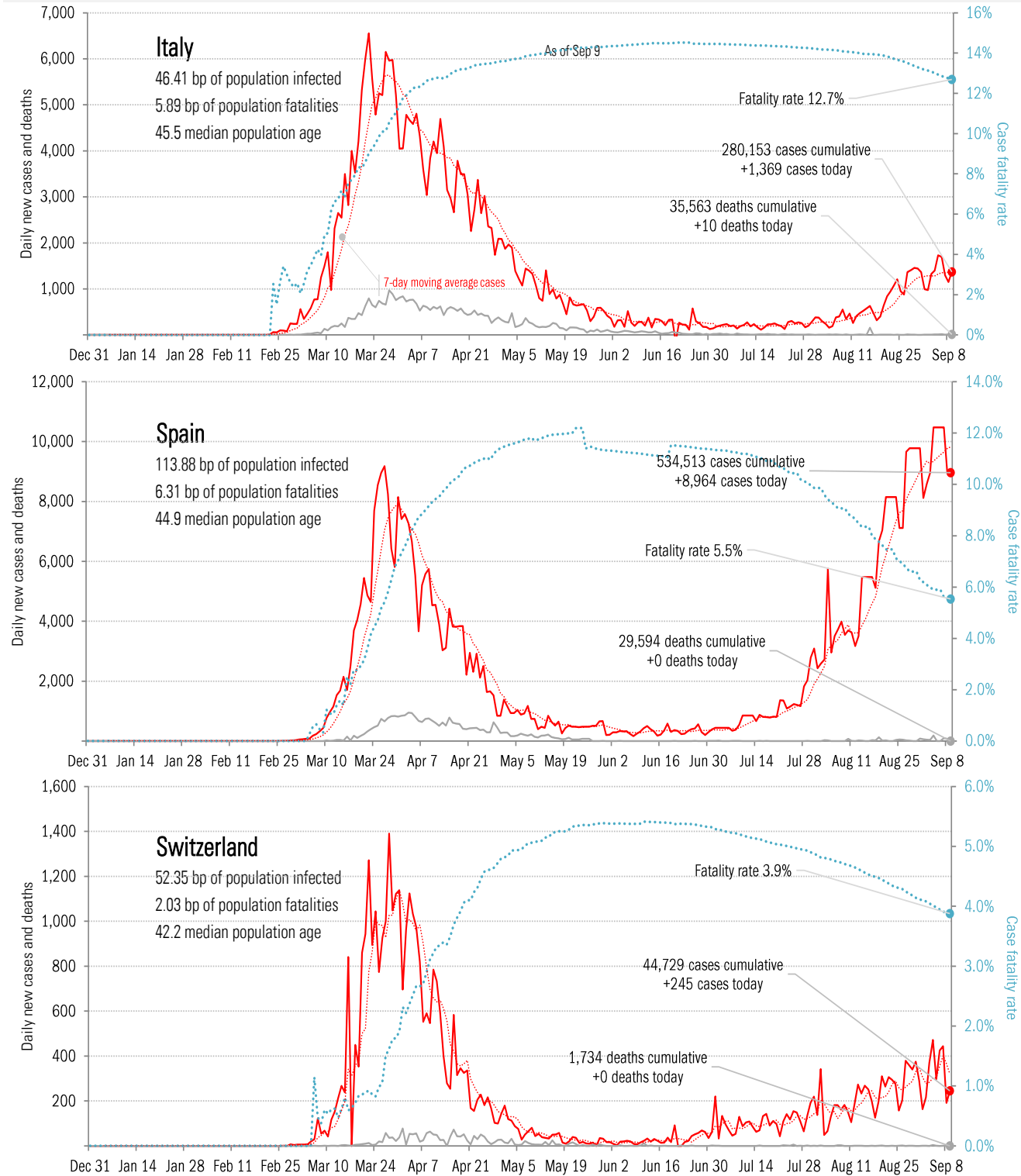
Source: [ECDC](#), TrendMacro calculations

# Impact in The Anglosphere



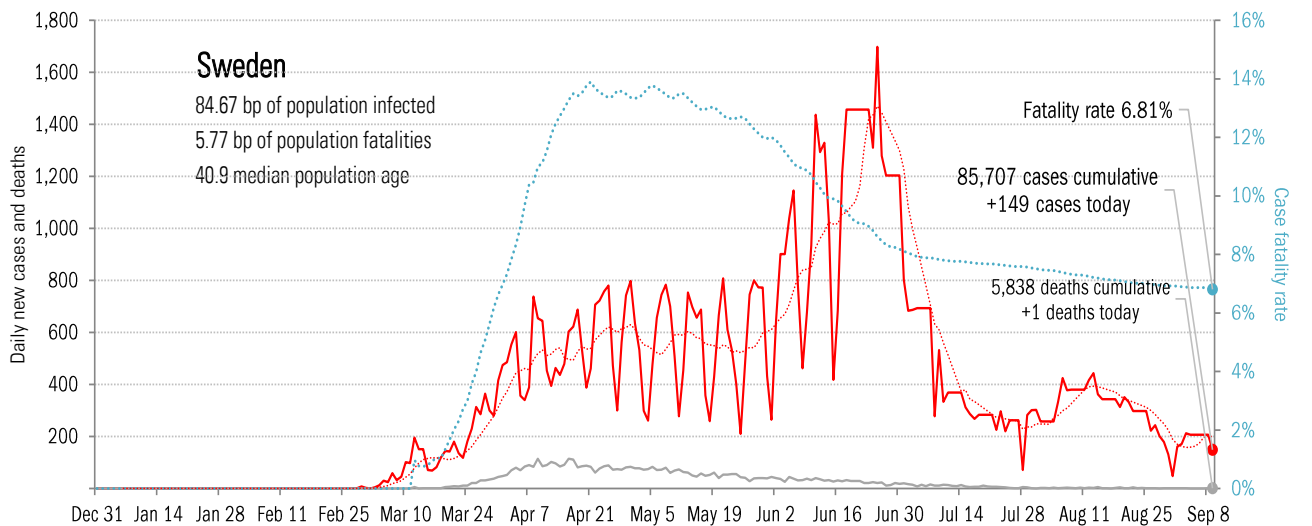
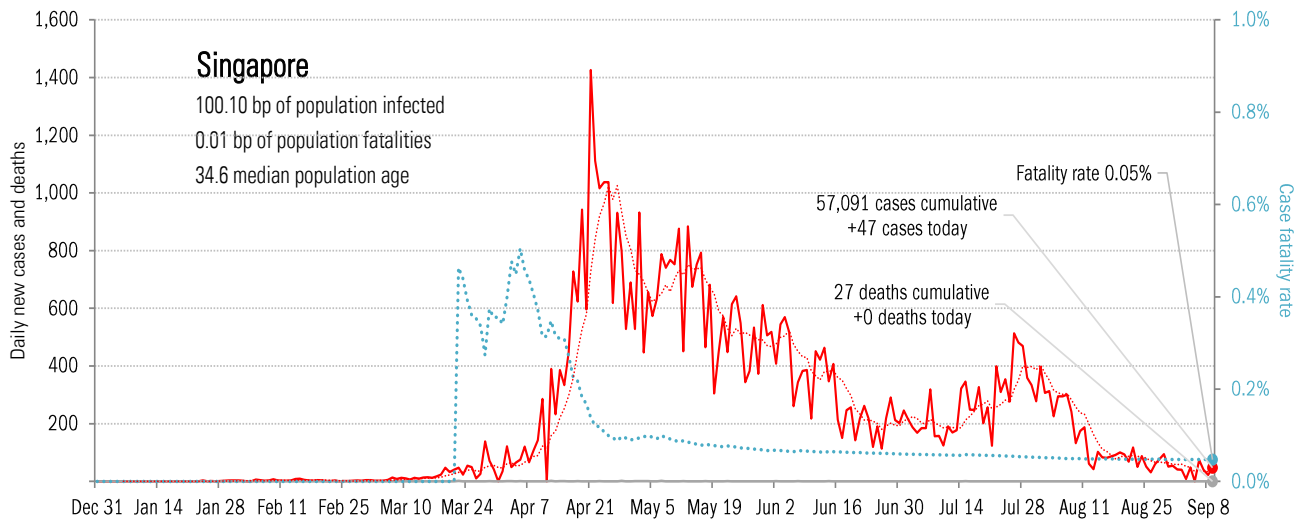
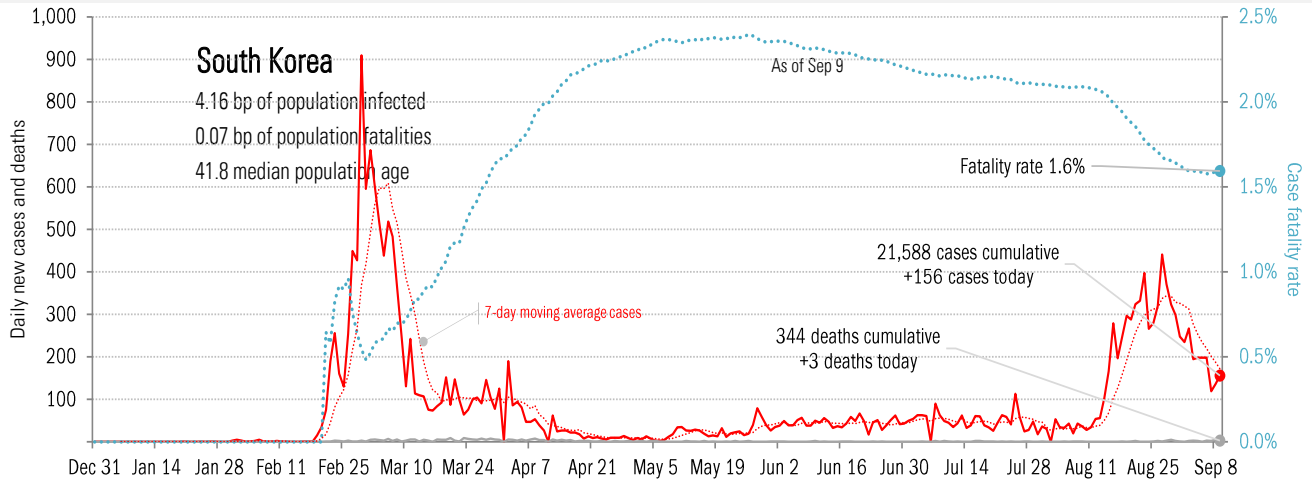
Source: [ECDC](#), TrendMacro calculations

# Impact in continental Europe



Source: [ECDC](#), TrendMacro calculations

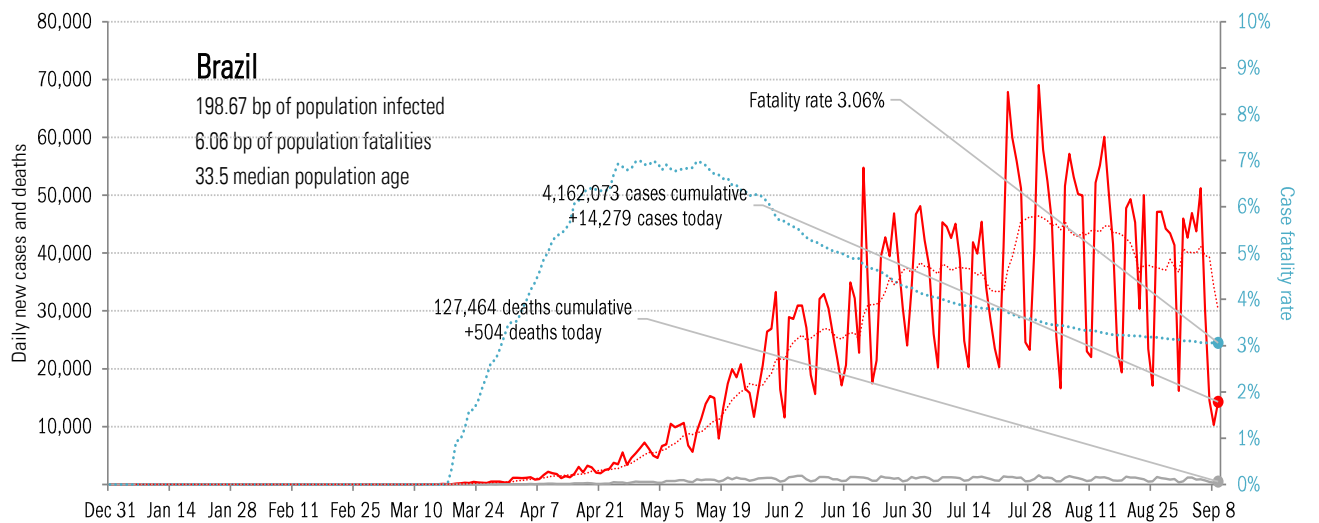
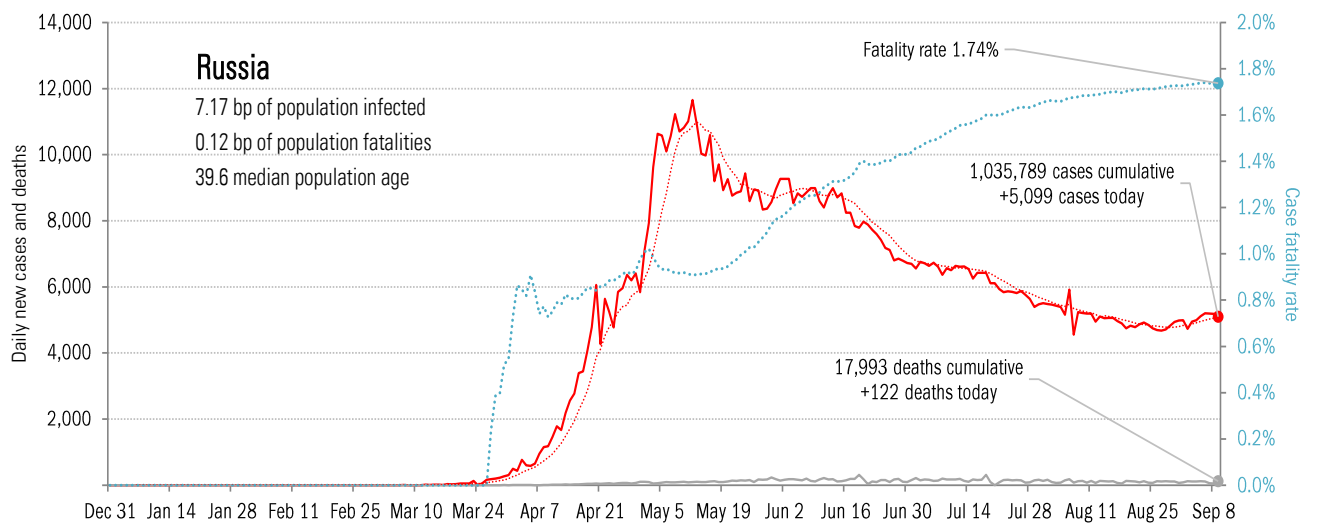
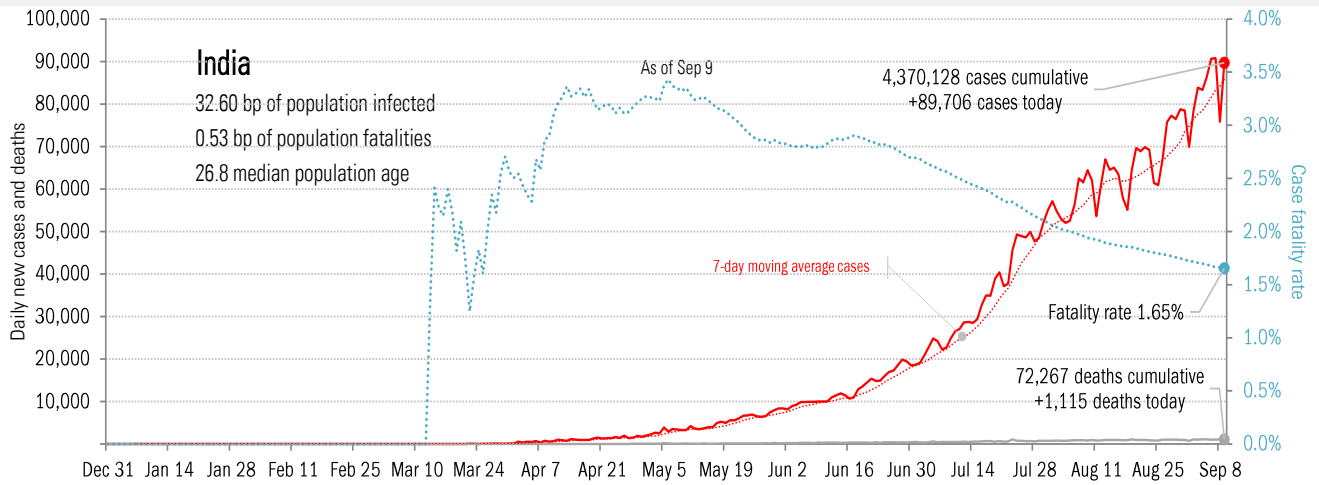
# Impact in other hot-spots



Source: [ECDC](#), TrendMacro calculations

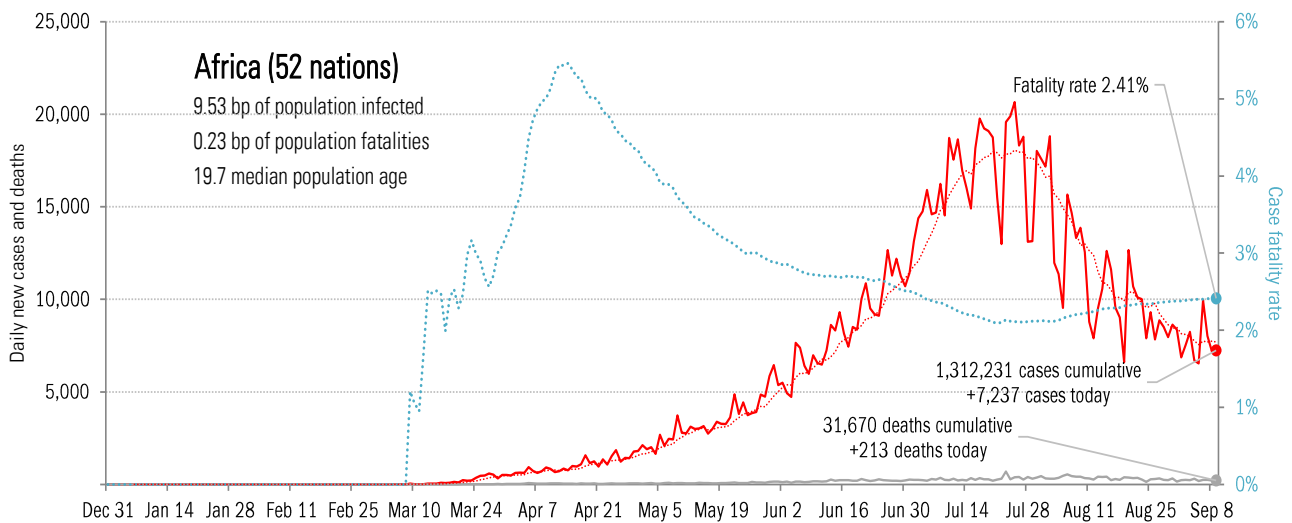
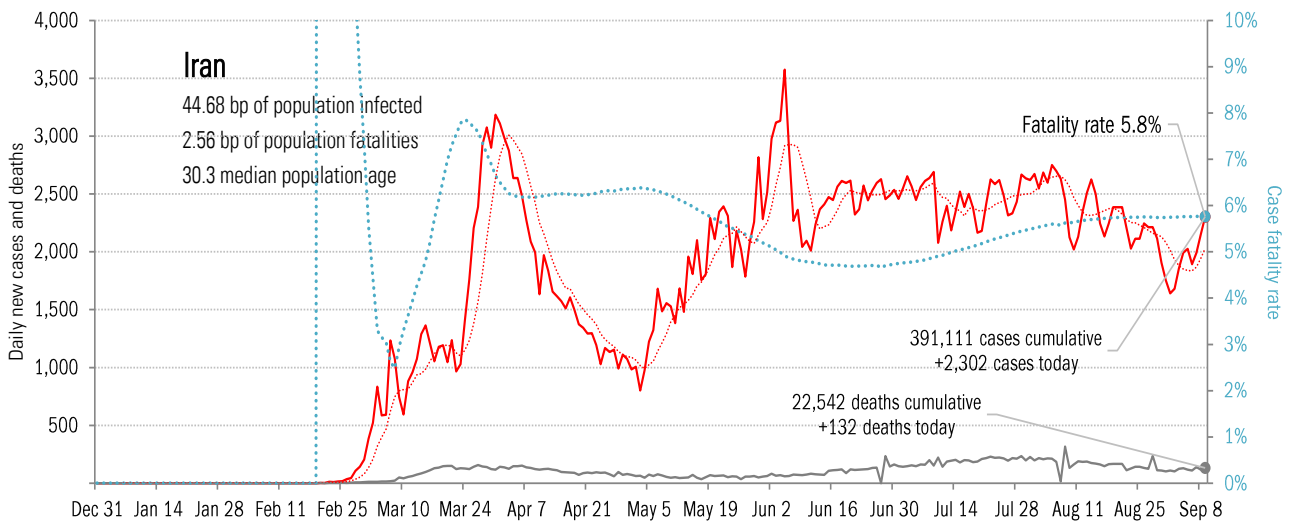
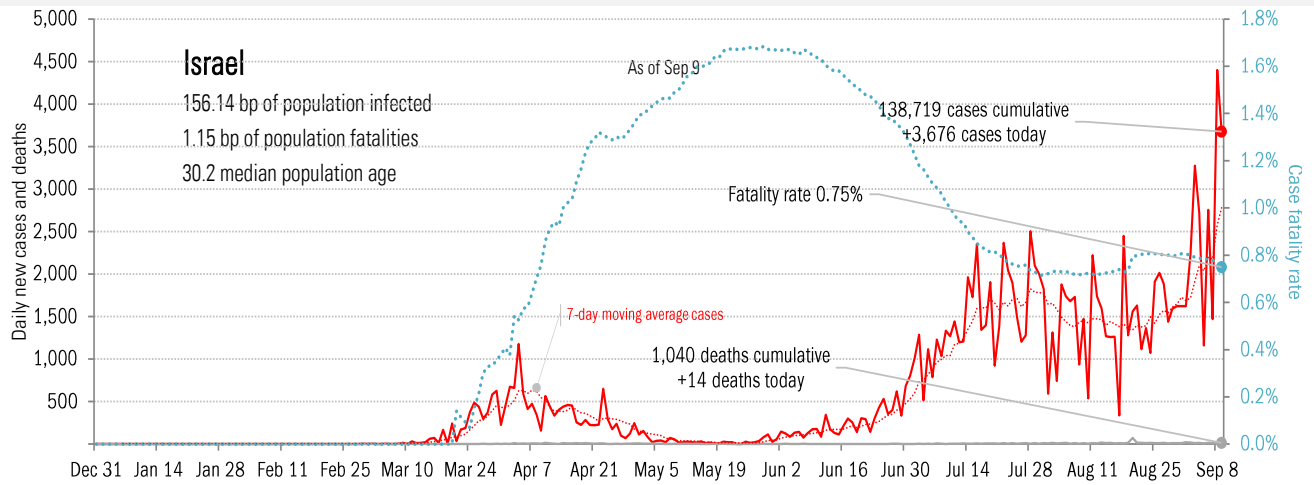


# Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

# Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations