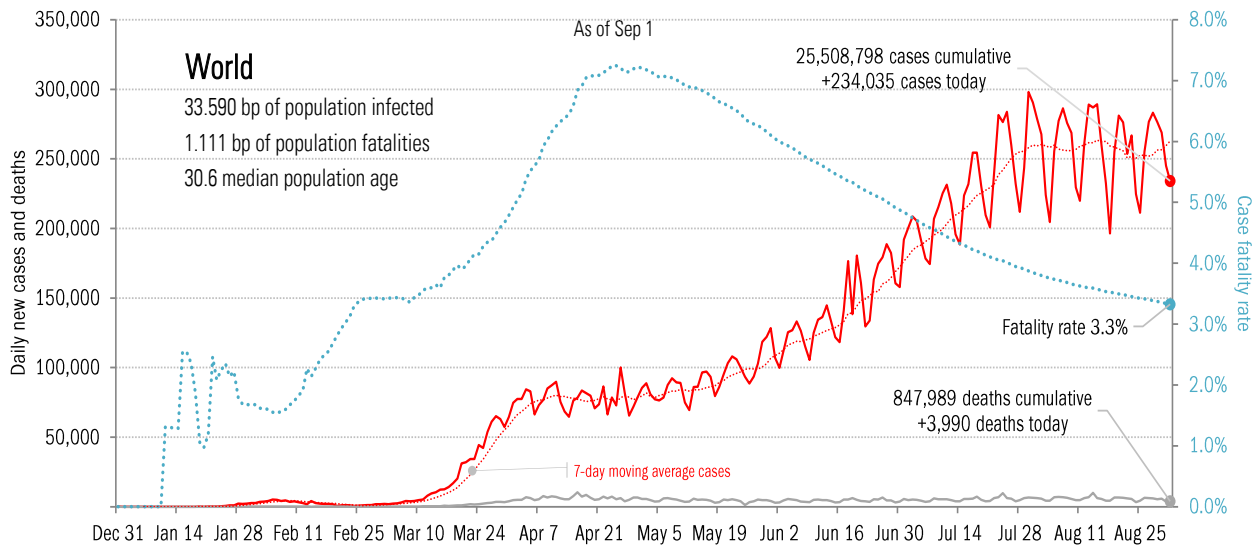
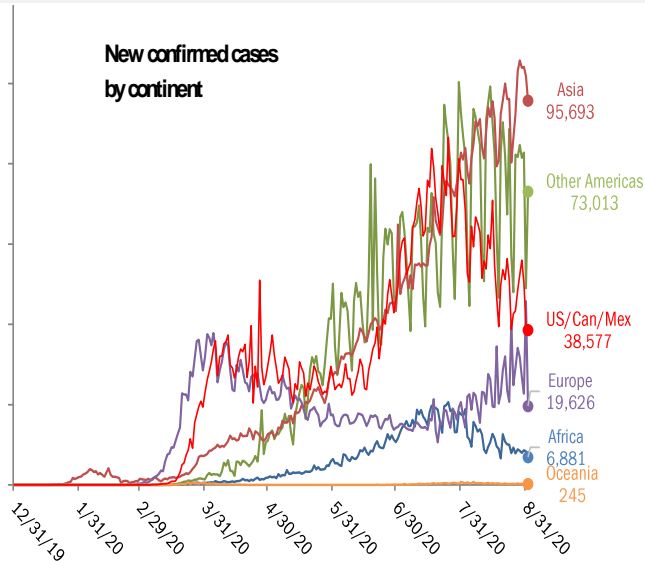


Data Insights: Covid-2019 Monitor

Tuesday, September 1, 2020

The global scorecard

| The worst ten countries | | | |
|-------------------------|----------|---------------|--------|
| New cases | | New Deaths | |
| India | +69,921 | India | +759 |
| Brazil | +45,961 | Brazil | +553 |
| US | +33,850 | US | +529 |
| Colombia | +7,230 | Colombia | +299 |
| Argentina | +7,187 | Mexico | +256 |
| Russia | +4,993 | Peru | +156 |
| Peru | +4,871 | South_Africa | +121 |
| Iraq | +3,757 | Iran | +109 |
| Mexico | +3,719 | Argentina | +97 |
| Philippines | +3,423 | Iraq | +83 |
| +184,912 | | +2,962 | |
| World | +234,035 | World | +3,990 |
| Top ten | 79% | Top ten | 74% |



Source: [ECDC](#), TrendMacro calculations

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

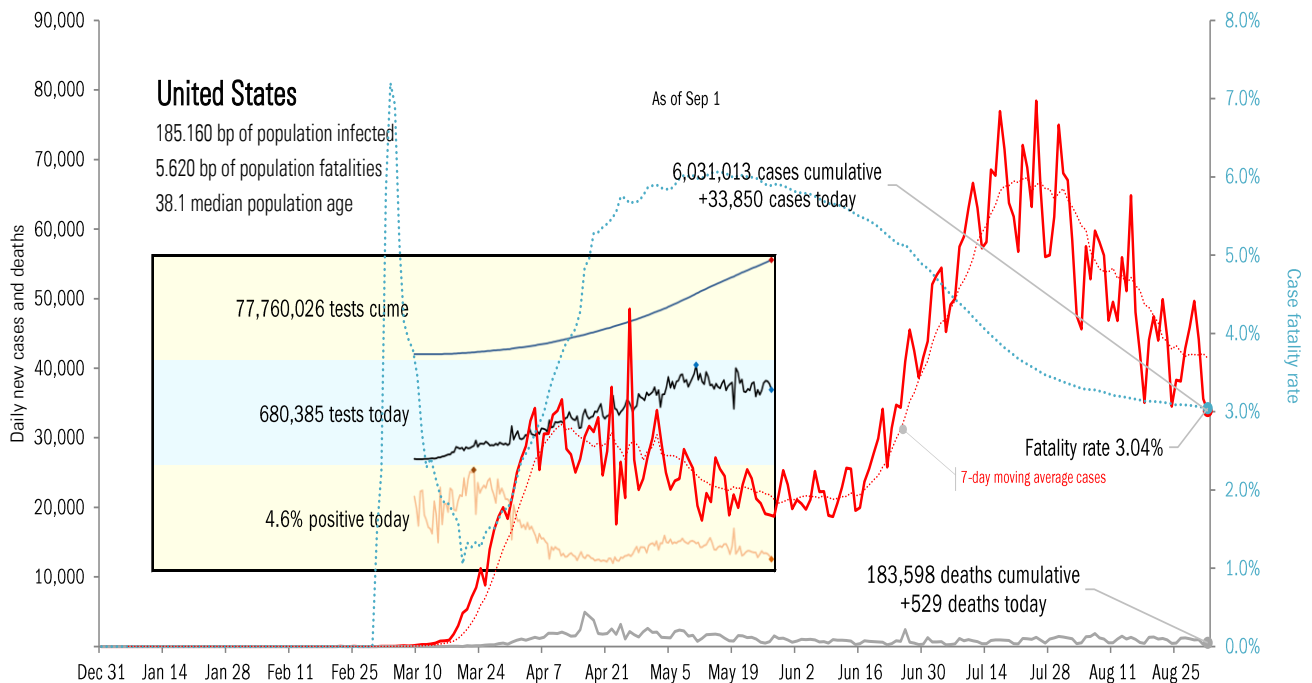
National and state-by-state data do not line up because of different sources

The ten worst US states

| New cases | | New Deaths | | New in hospital | | Curre cases | | Curre deaths | | Curre in hospital | |
|----------------|---------|-------------|------|-----------------|------|------------------|-----------|----------------|---------|-------------------|---------|
| CA | +4,176 | FL | +68 | IN | +200 | CA | 704,085 | NY | 25,328 | NY | 89,995 |
| TX | +2,615 | MS | +32 | FL | +85 | FL | 623,471 | NJ | 15,937 | FL | 38,942 |
| FL | +1,885 | CA | +28 | VA | +78 | TX | 612,969 | CA | 12,933 | GA | 24,604 |
| TN | +1,818 | GA | +28 | CH | +59 | NY | 434,756 | TX | 12,536 | NJ | 22,627 |
| IL | +1,668 | TX | +26 | MD | +48 | GA | 270,471 | FL | 11,331 | AZ | 21,405 |
| KS | +1,564 | MO | +22 | OR | +41 | IL | 236,725 | MA | 9,060 | VA | 16,167 |
| GA | +1,498 | AL | +20 | TN | +38 | AZ | 201,835 | IL | 8,235 | MD | 14,303 |
| NC | +1,186 | LA | +19 | GA | +32 | NJ | 191,960 | PA | 7,673 | AL | 14,267 |
| MO | +1,042 | AR | +13 | AR | +31 | NC | 167,313 | MI | 6,753 | CH | 13,376 |
| CH | +895 | MA | +11 | SC | +29 | TN | 154,933 | GA | 5,632 | MA | 12,364 |
| +18,347 | | +267 | | +641 | | 3,598,518 | | 115,418 | | 268,050 | |
| All states | +31,406 | All states | +358 | All states | +816 | All states | 5,999,459 | All states | 175,602 | All states | 370,380 |
| Top ten | 58% | Top ten | 75% | Top ten | 79% | Top ten | 60% | Top ten | 66% | Top ten | 72% |

Five most improved US states

| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | | Most recoveries | |
|-------------------|--------|------------------|-----|----------------------------|-----|-----------------|--------|
| CA | -1,894 | TX | -64 | WA | -61 | NC | +9,254 |
| LA | -1,298 | CA | -43 | TN | -51 | TX | +7,981 |
| TX | -1,209 | MI | -31 | CO | -31 | MS | +5,211 |
| WA | -1,019 | AZ | -24 | MN | -17 | TN | +2,095 |
| MI | -891 | TN | -15 | WI | -16 | IN | +1,057 |



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

Recommended reading

['Safety' vs. 'justice' is a false choice in criminal justice reform](#)

Jeff Korzenik
Tampa Bay Times
August 30, 2020

[WHO Special Envoy Heaps Praise on Sweden's Covid Strategy](#)

Charles Daly
Bloomberg
August 31, 2020

[Chicago Projects \\$2 Billion Deficit Through 2021 on Pandemic](#)

Shruti Singh
Bloomberg
August 31, 2020

[Sex differences in immune responses that underlie COVID-19 disease outcomes](#)

Takehiro Takahashi et al.
Nature
August 26, 2020

[Confessions of a voter fraud: I was a master at fixing mail-in ballots](#)

Jon Levine
New York Post
August 29, 2020

[Refusal to wear a facemask linked to sociopathy](#)

Rhys Blakely
The Times
August 31, 2020

[The Siege of the Third Precinct in Minneapolis An Account and Analysis](#)

Crimethinc
June 10, 2020

[Colleges With Covid Outbreaks Advised to Keep Students on Campus](#)

Olivia Raimonde
Bloomberg
August 30, 2020

[Pandemic Control in ECON-EPI Networks](#)

Marina Azzimonti et al.
Federal Reserve Bank of Minneapolis
August 19, 2020

[Your Coronavirus Test Is Positive. Maybe It Shouldn't Be.](#)

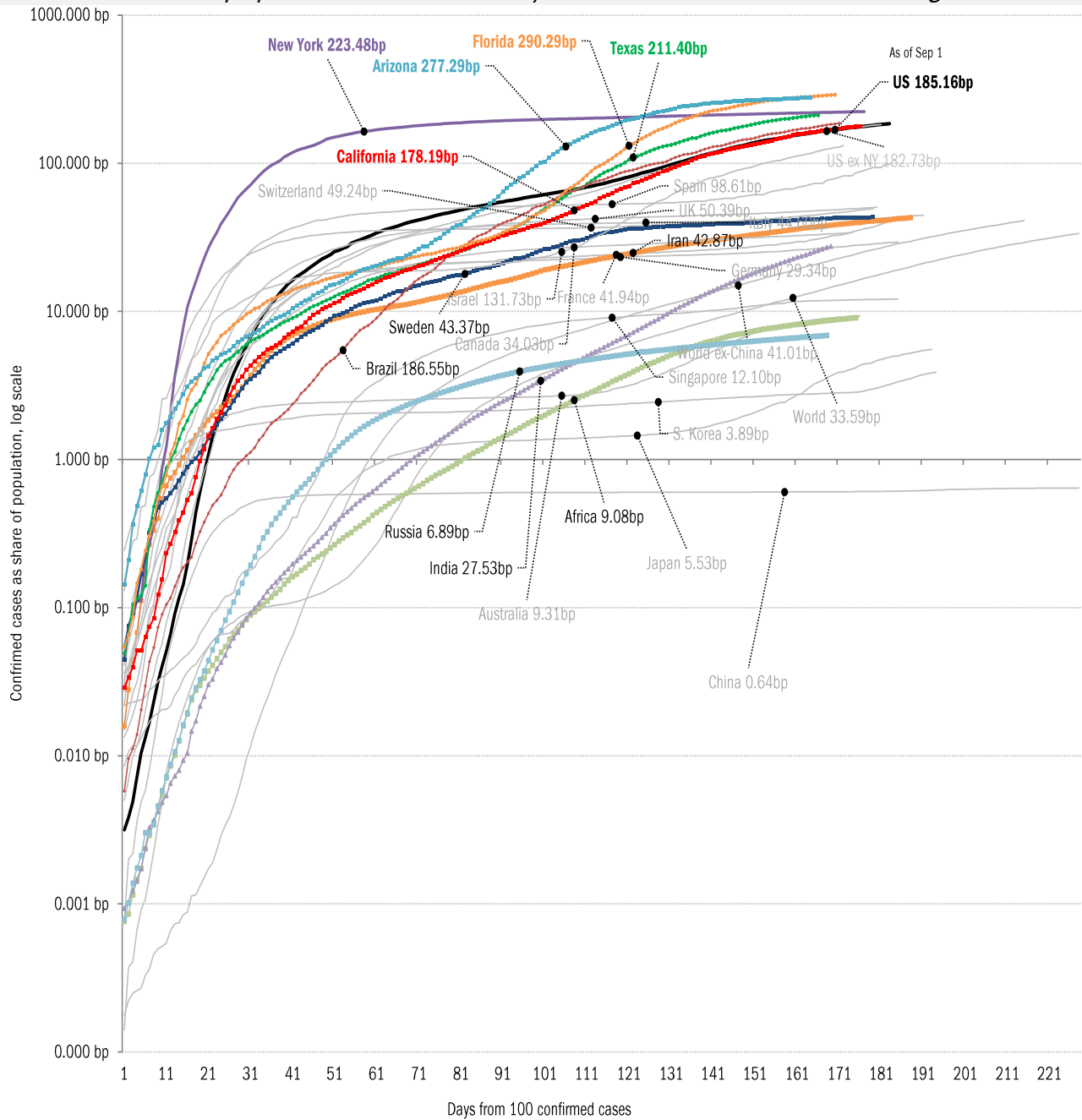
Apoorva Mandavilli
New York Times
August 29, 2020

Meme of day

Attention Texas & Louisiana please transition from your quarantine drinking to your regularly scheduled hurricane drinking. This has been a public service announcement.

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

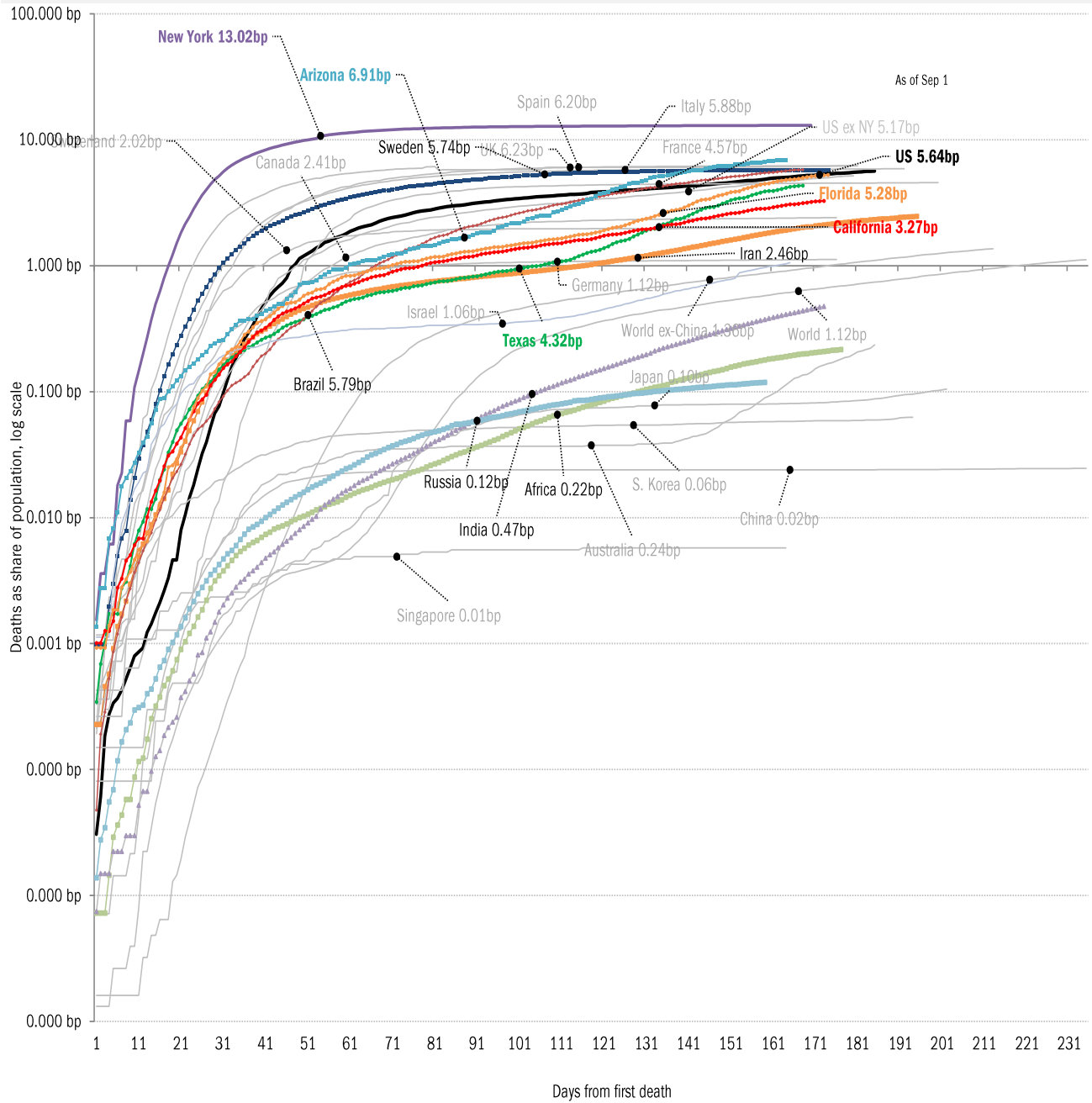
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

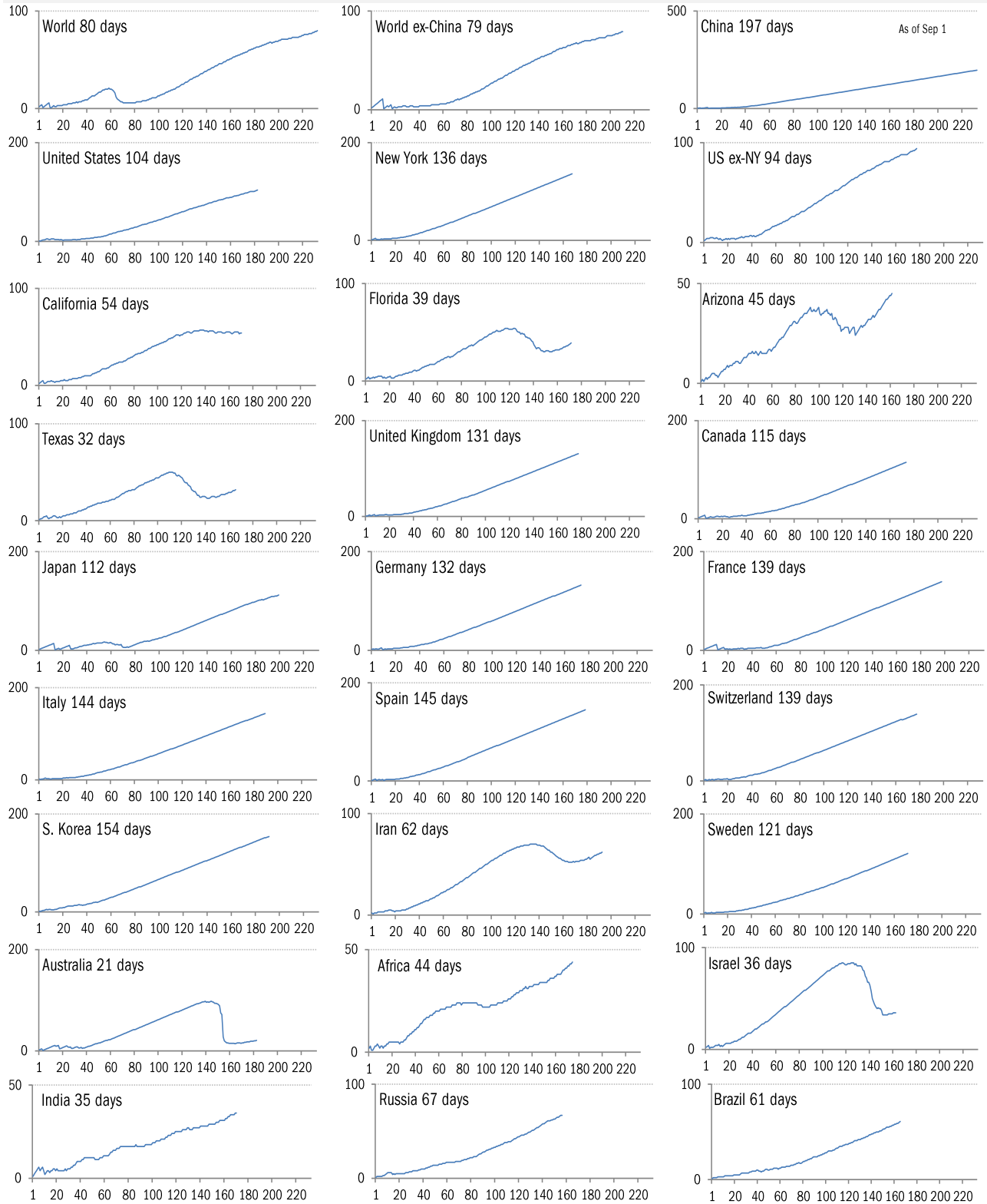


Source: [ECDC](#), TrendMacro calculations

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

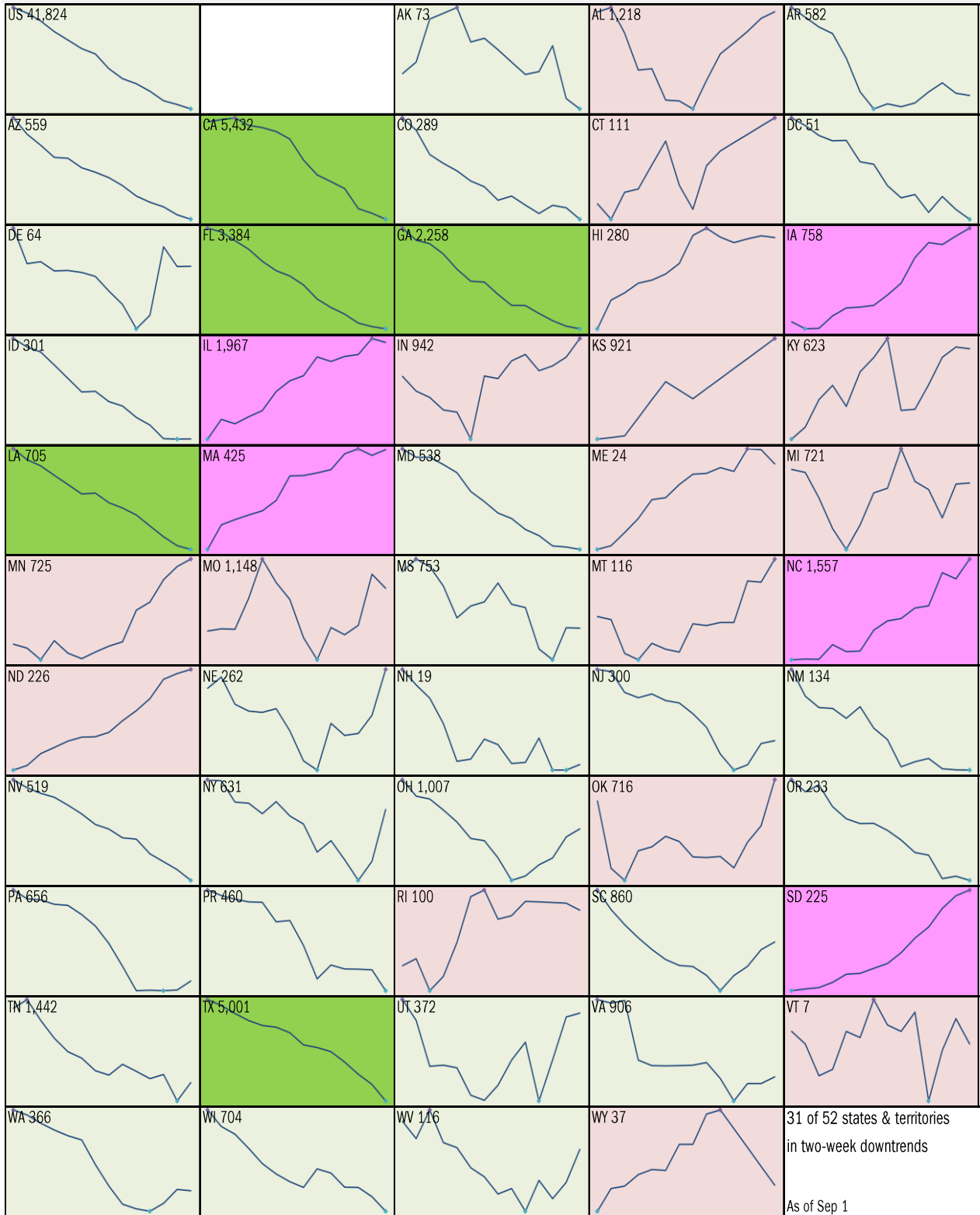


Source: [ECDC](https://www.ecdc.europa.eu/en), TrendMacro calculations

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

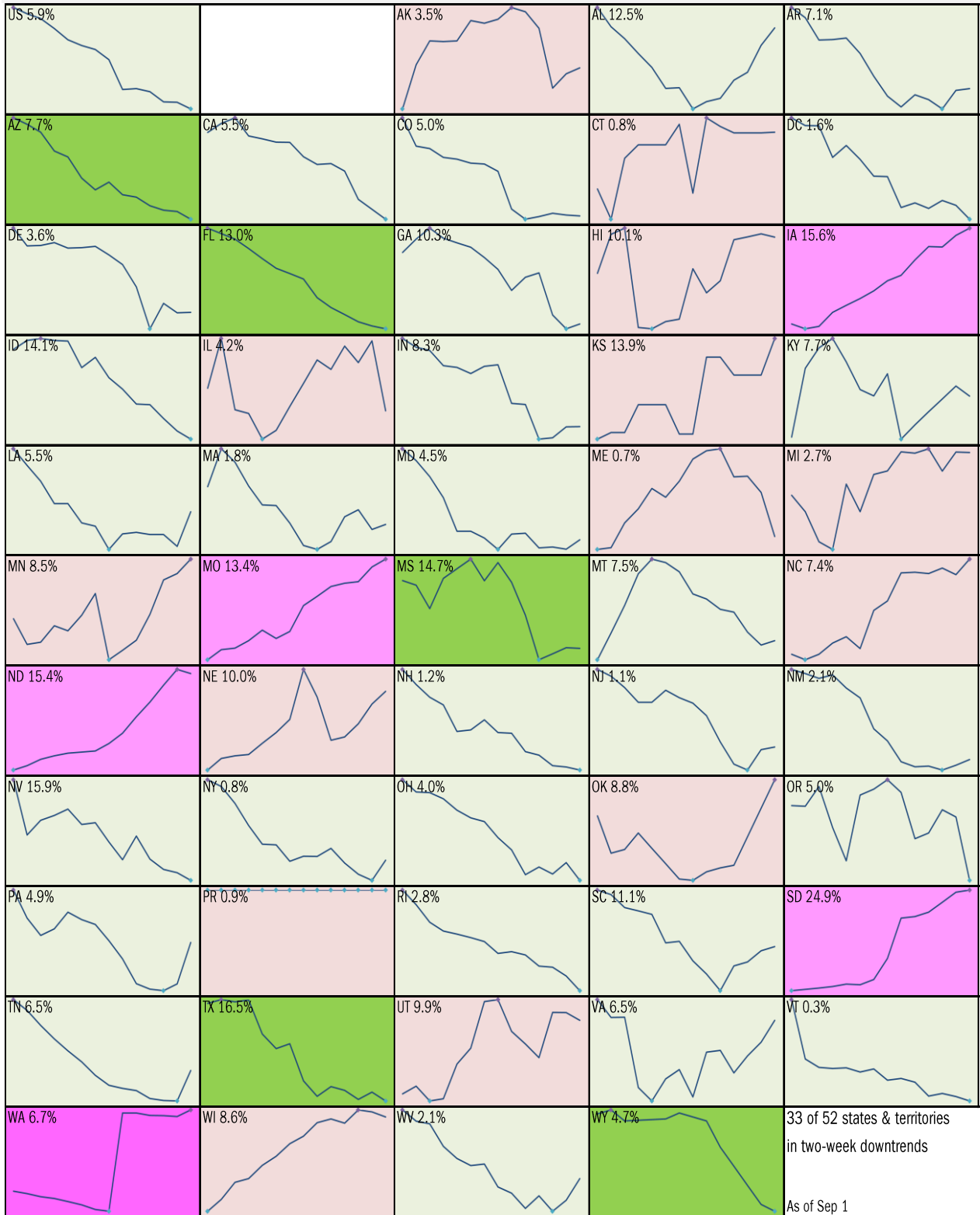
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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



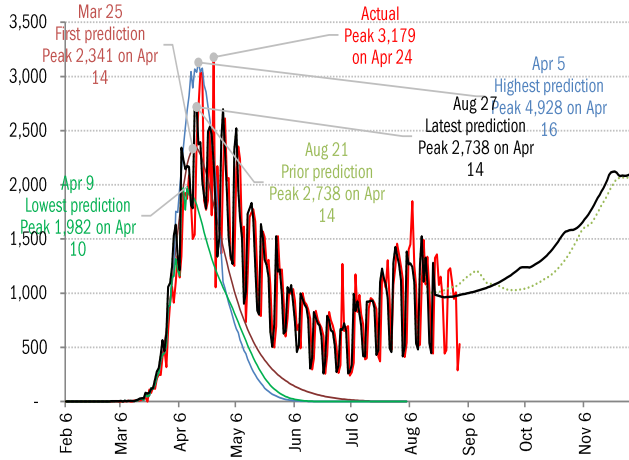
Source: [Covid Tracking Project](#), TrendMacro calculations

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

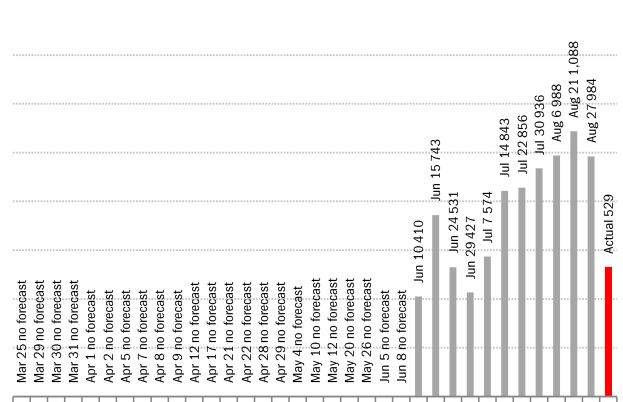
New daily fatalities

As of Sep 1

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

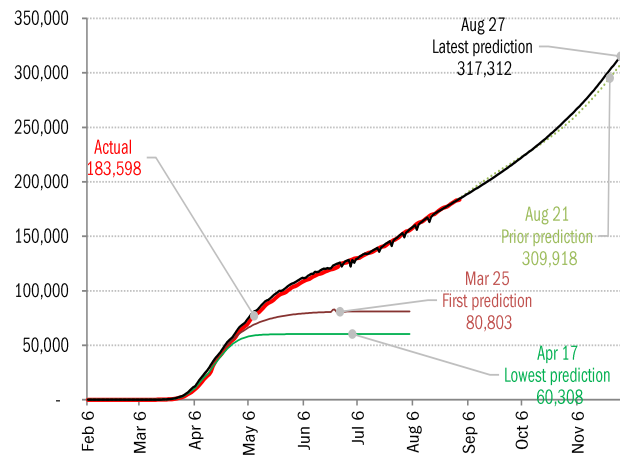


For this day, versus all model mean predictions

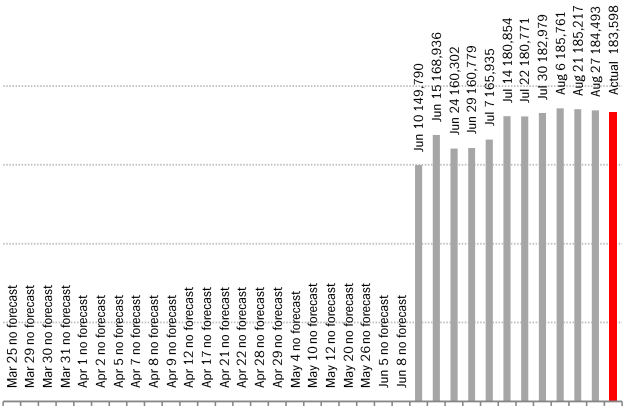


Cumulative fatalities

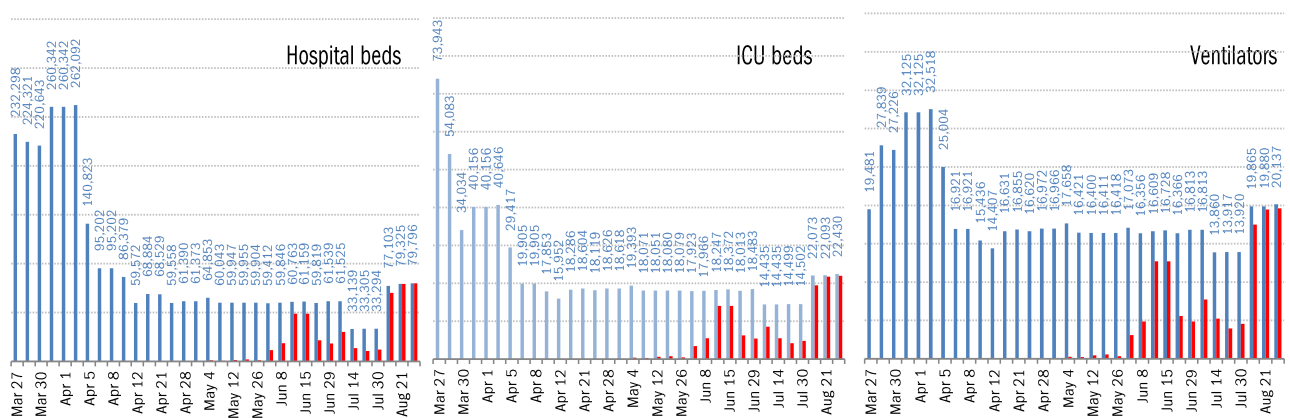
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

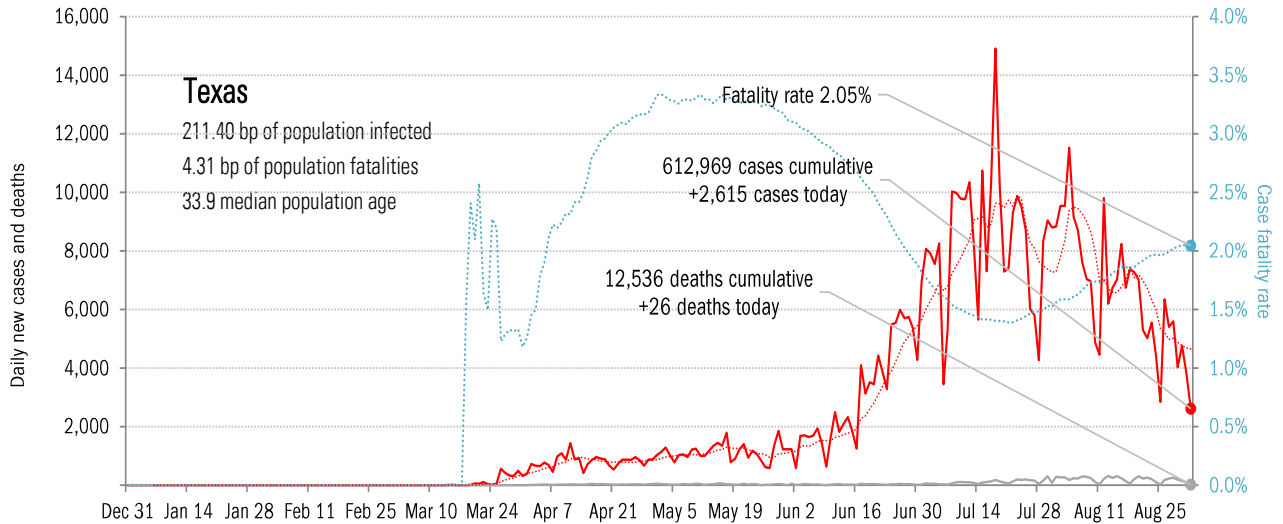
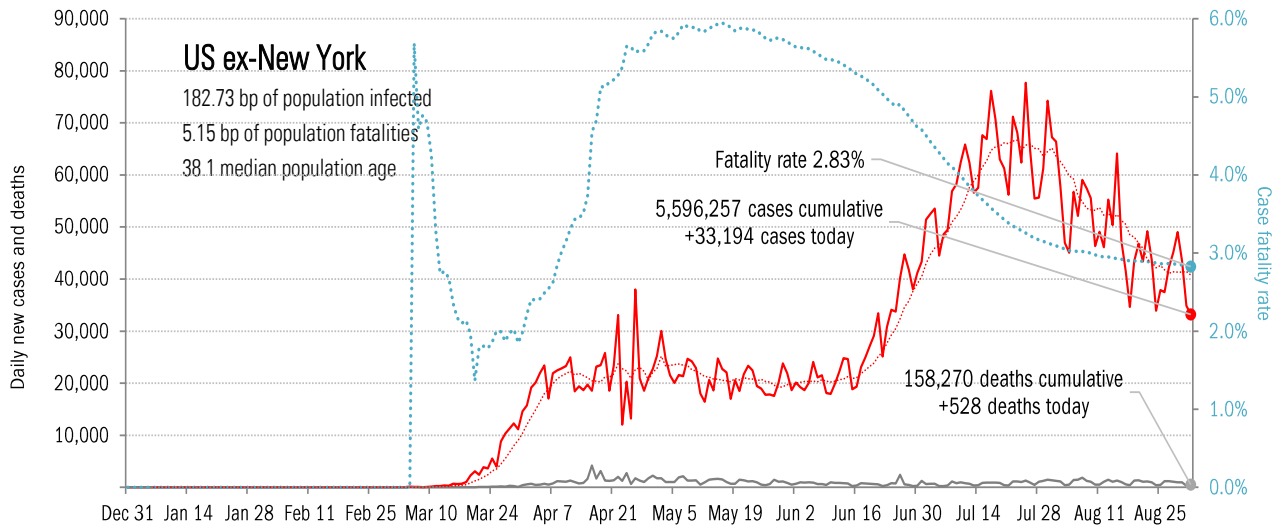
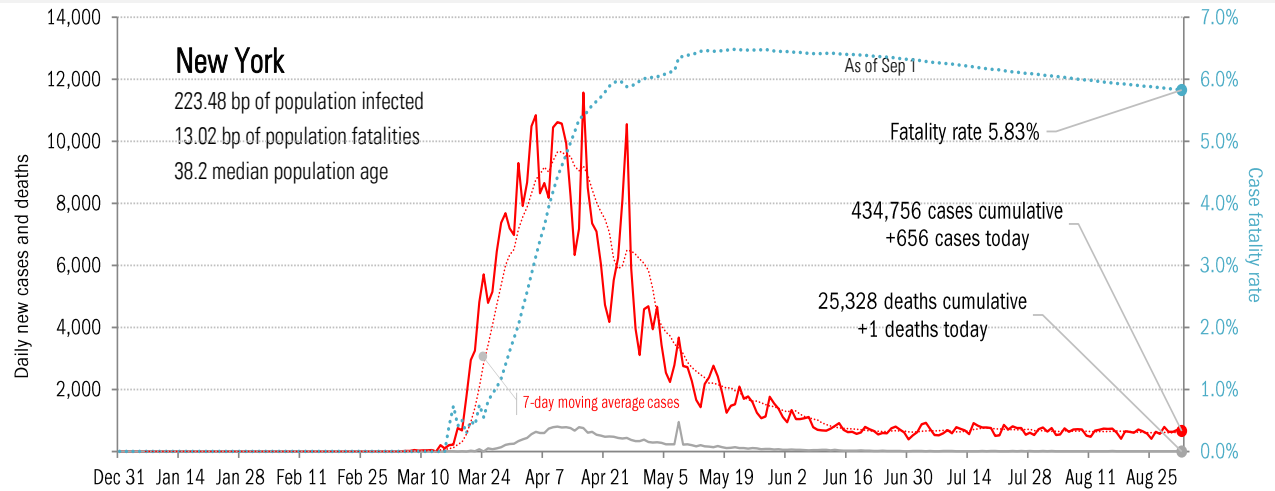


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



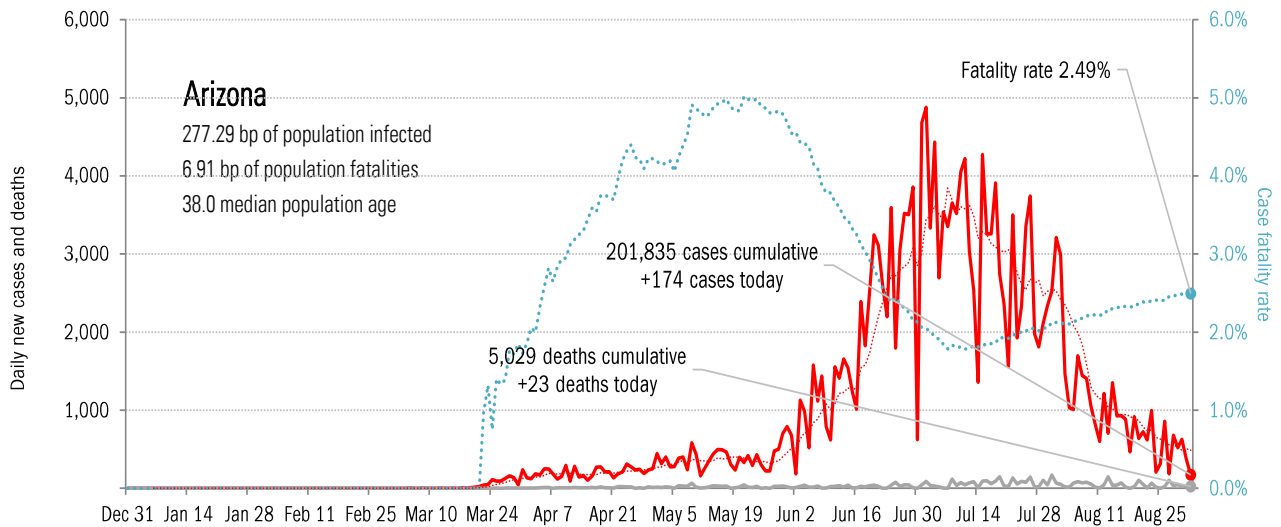
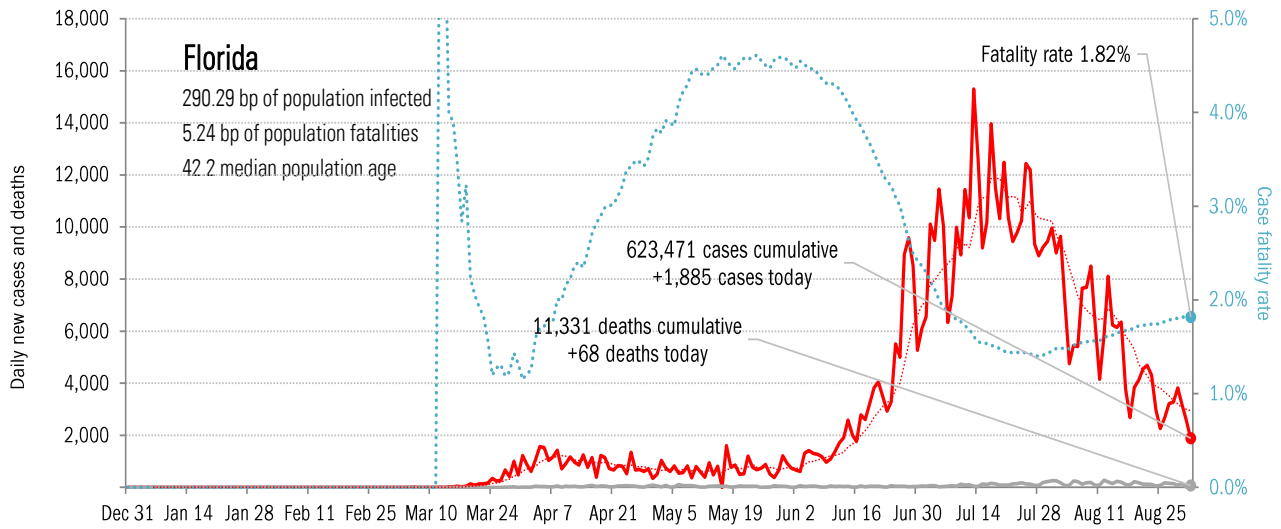
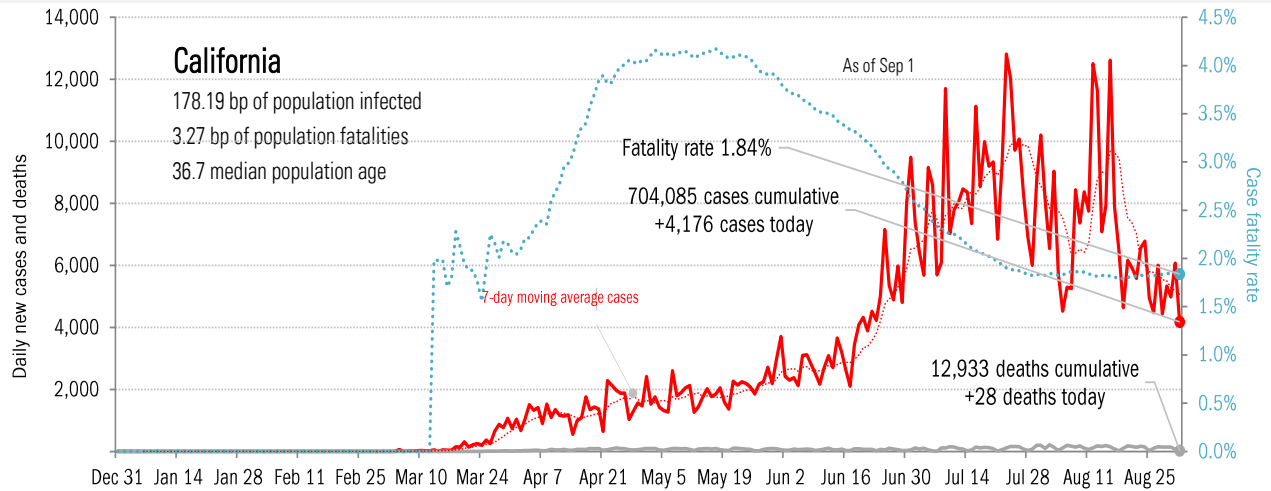
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



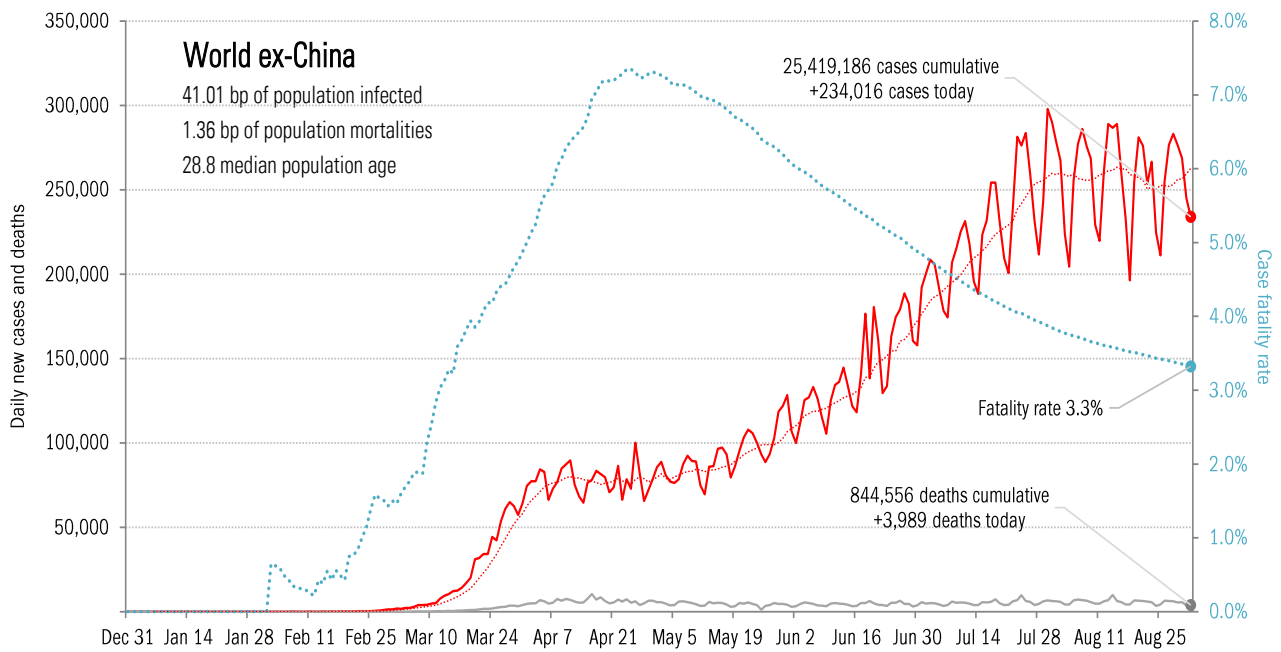
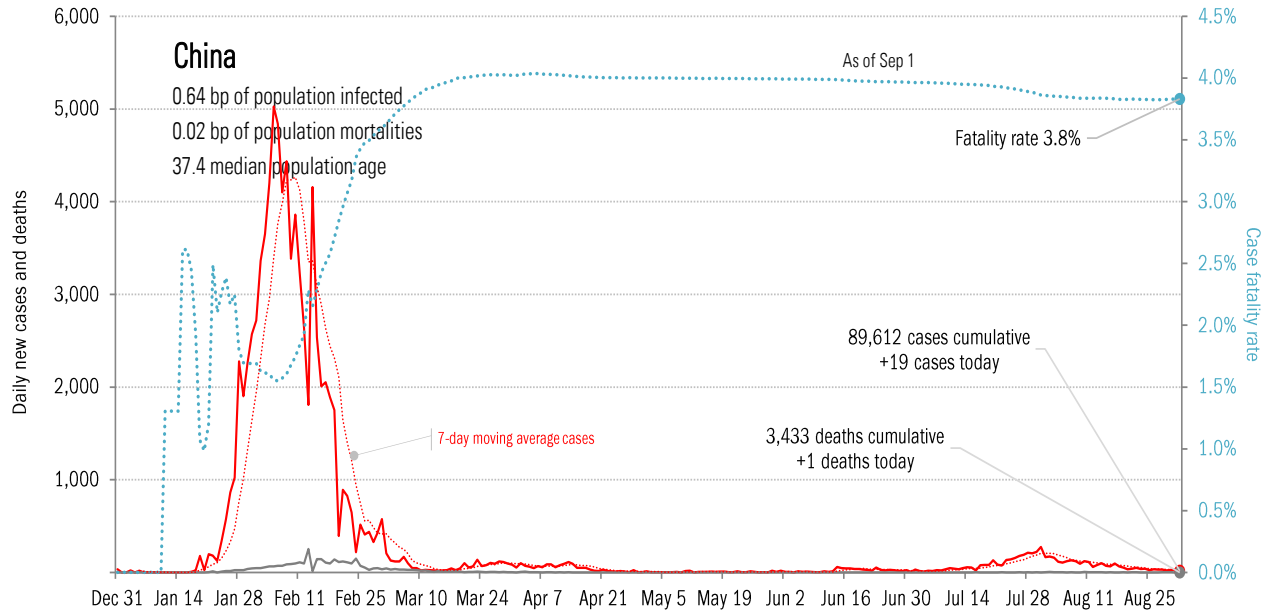
Source: [ECDC](#), TrendMacro calculations

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



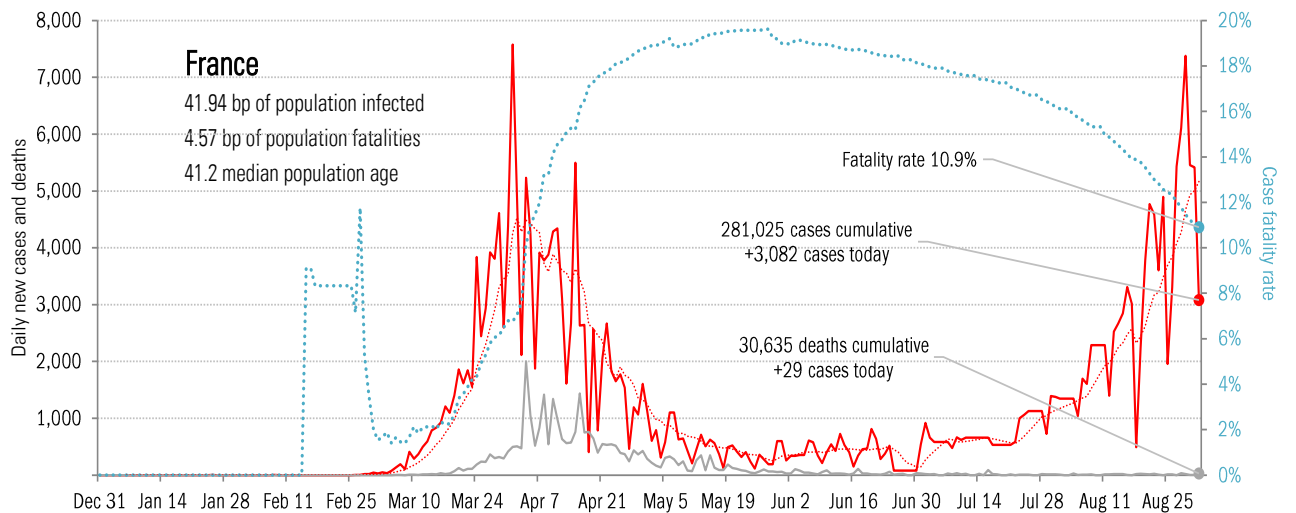
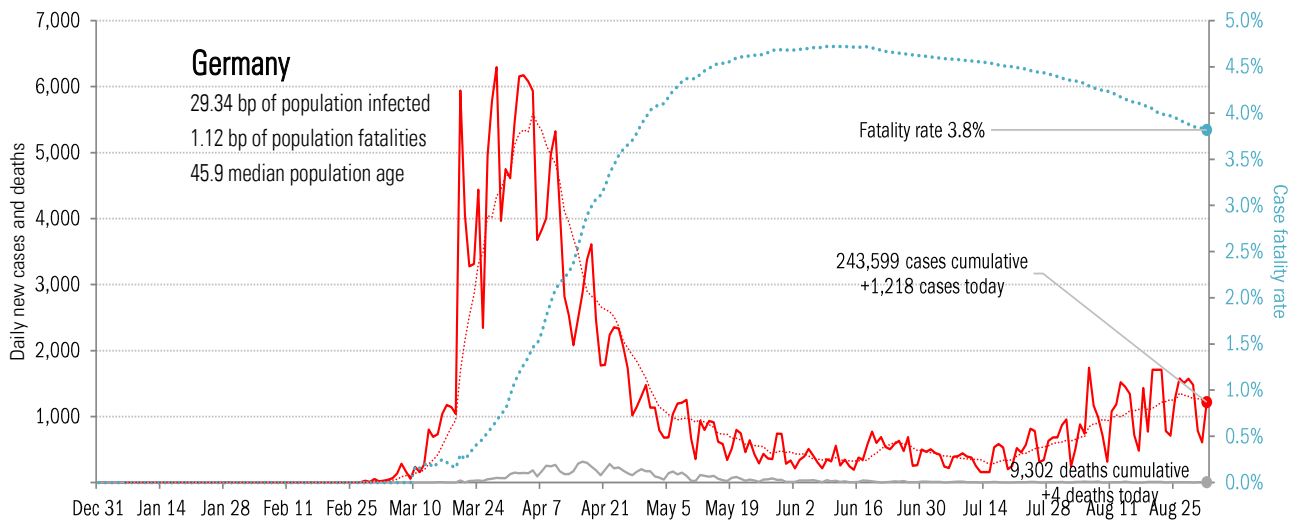
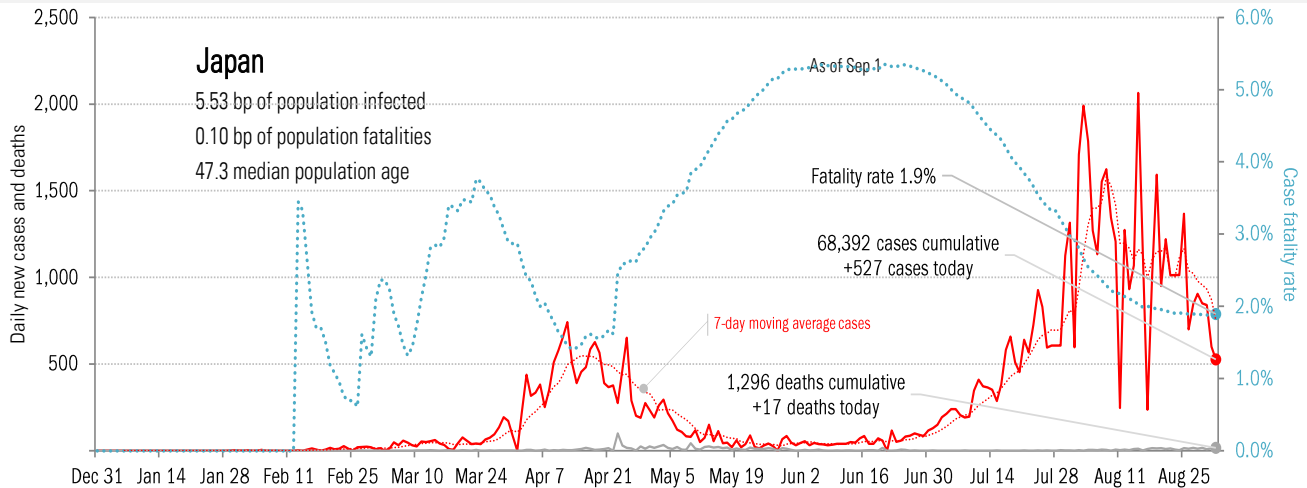
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



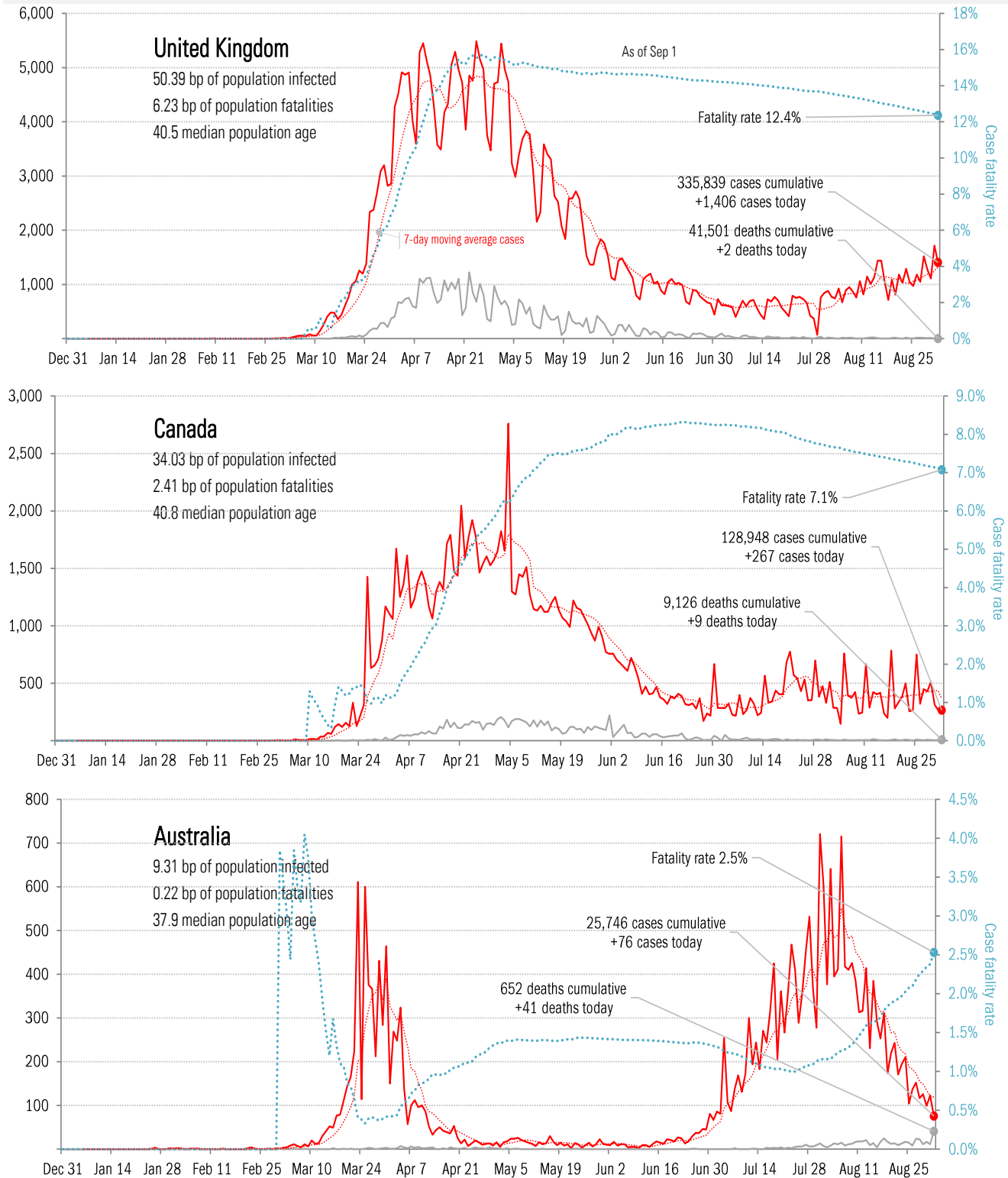
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



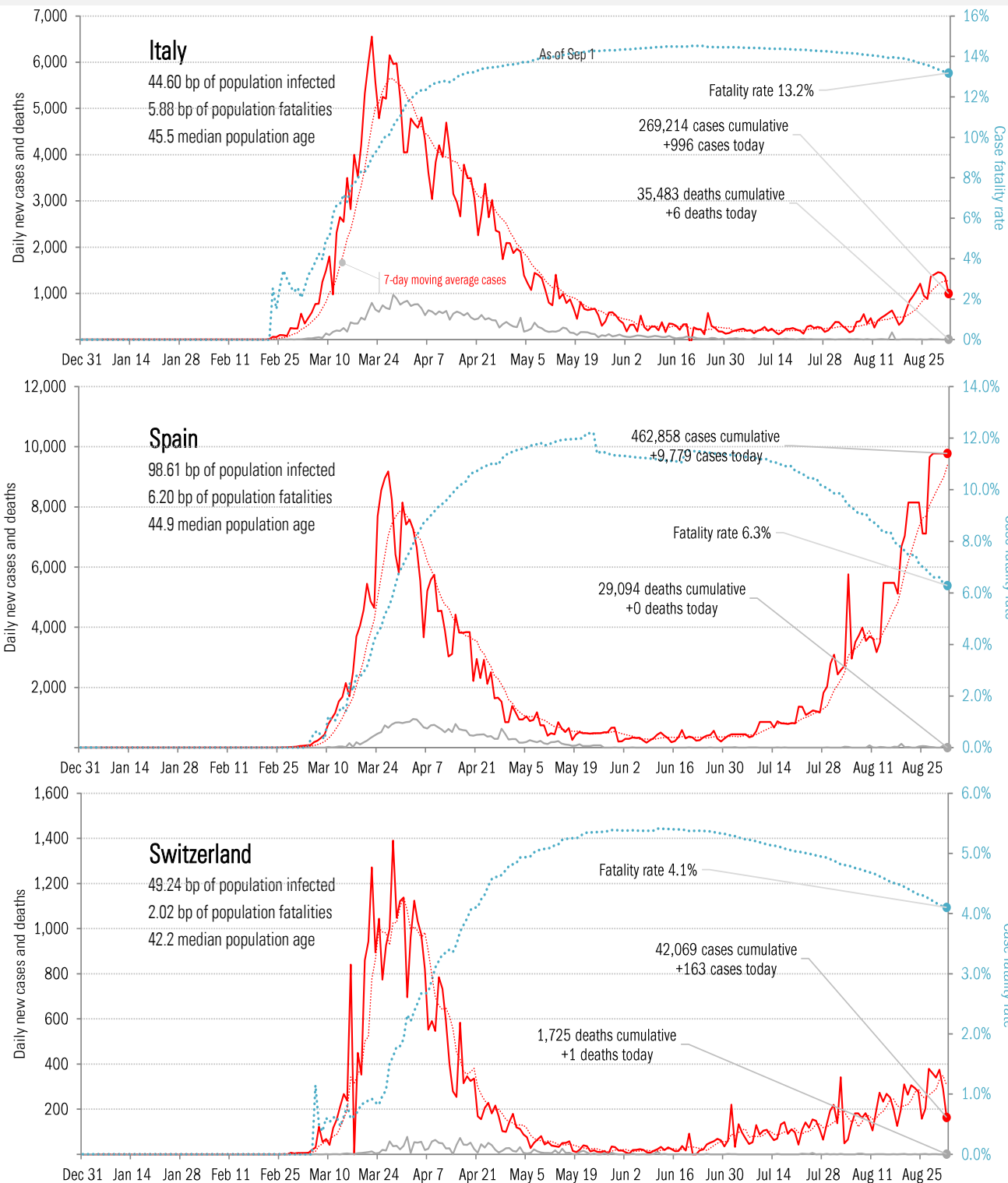
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



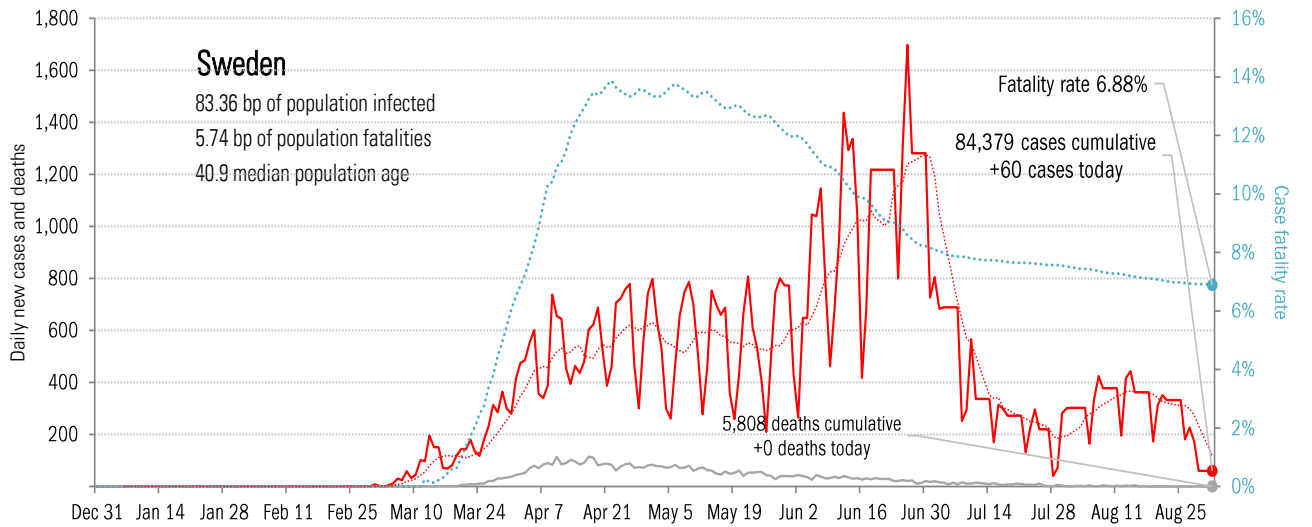
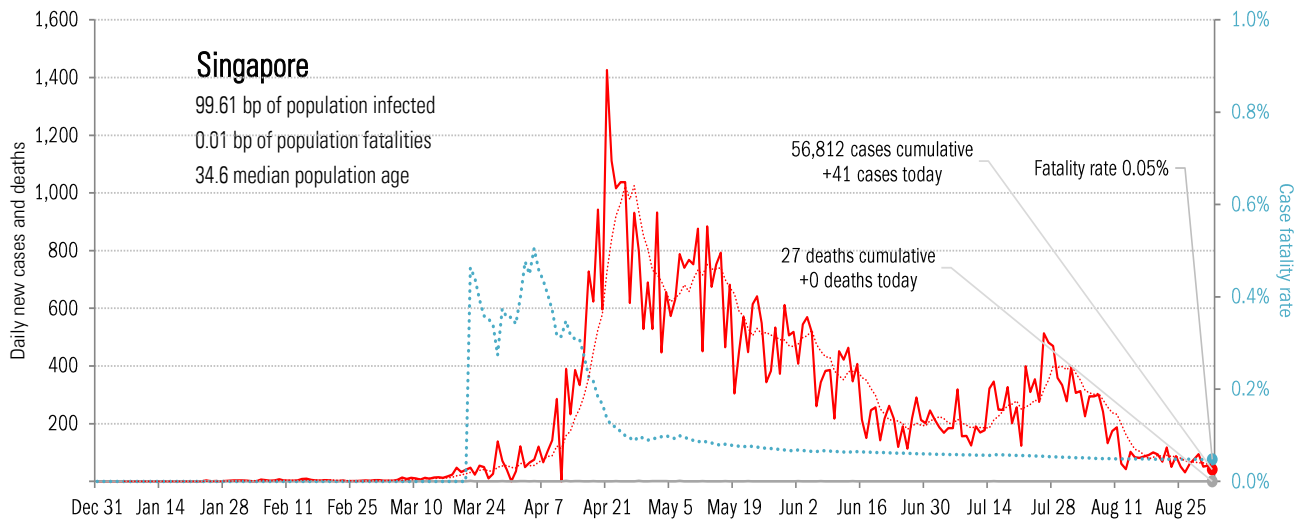
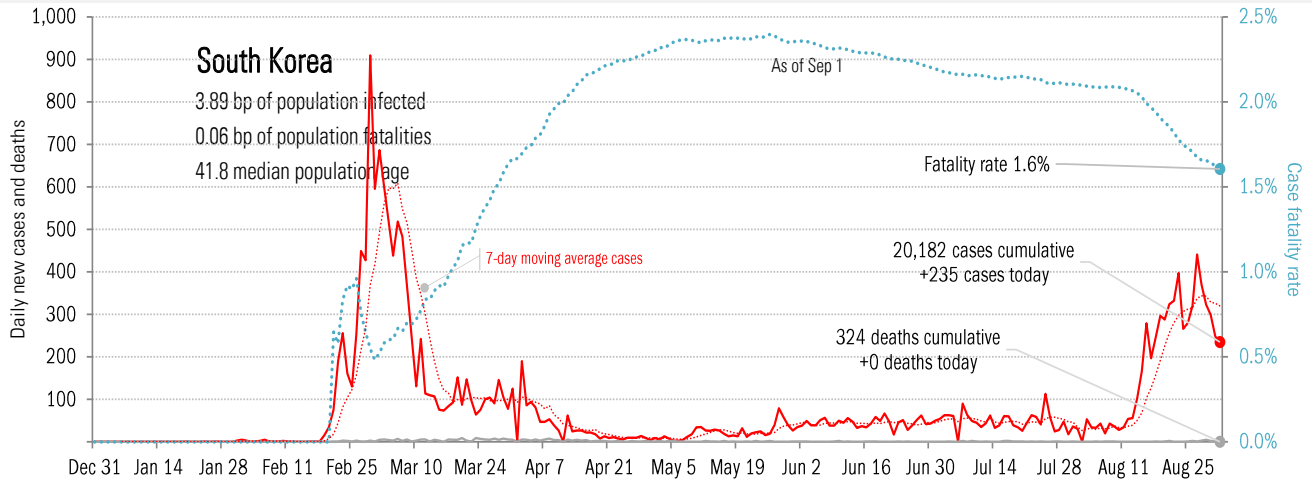
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



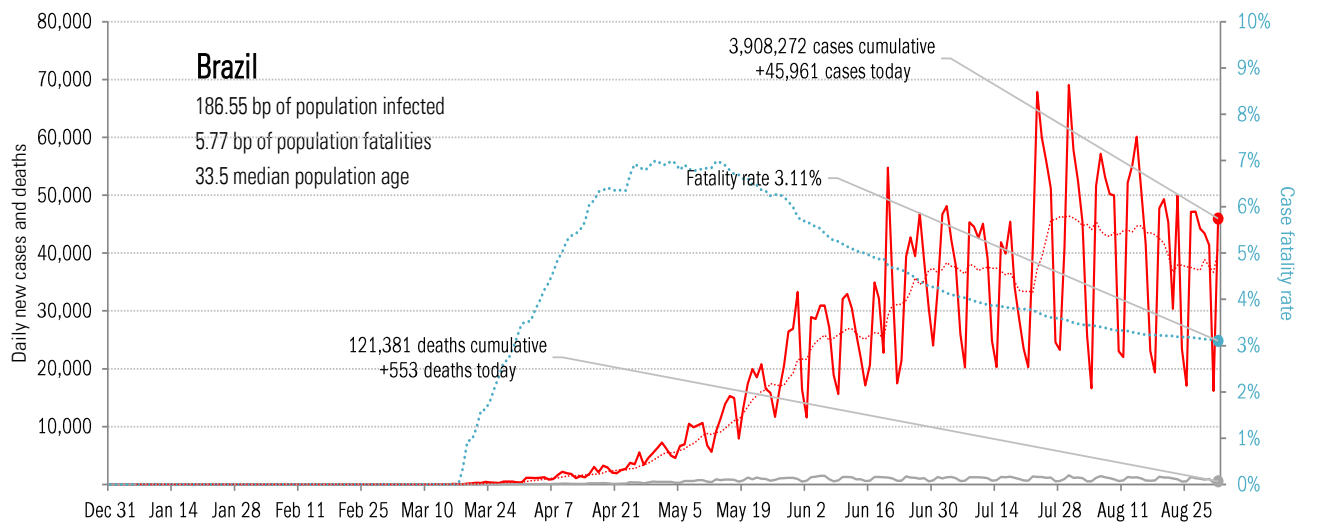
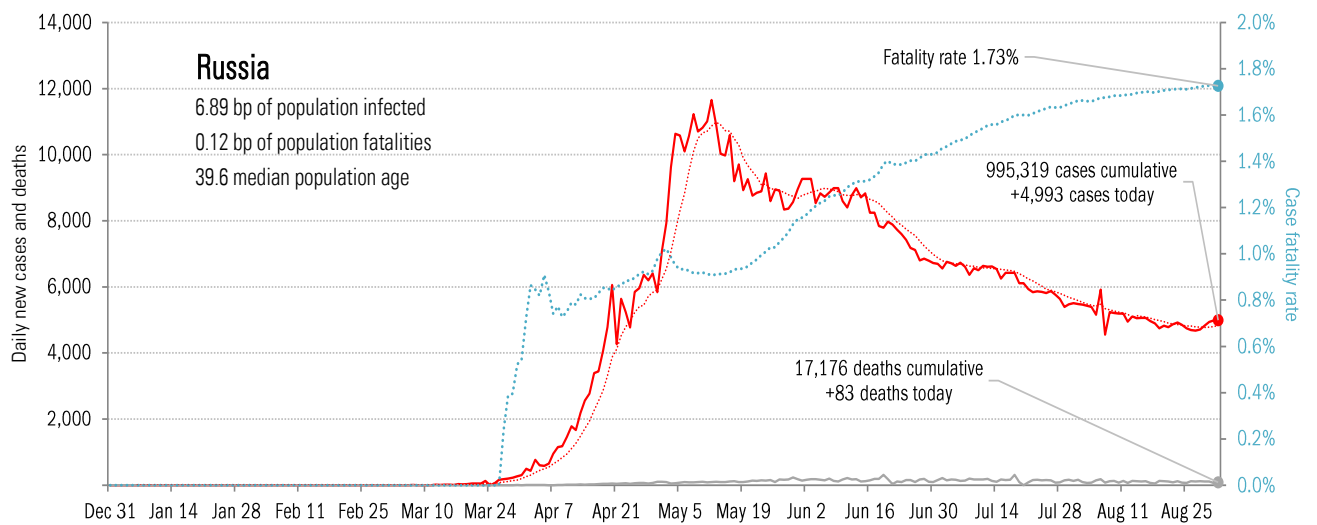
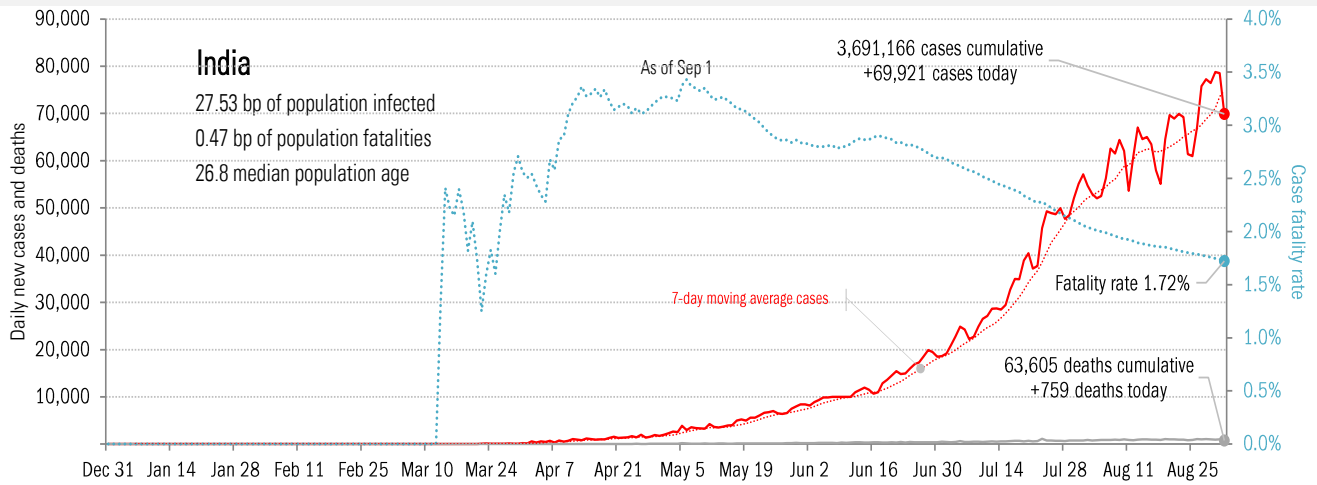
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



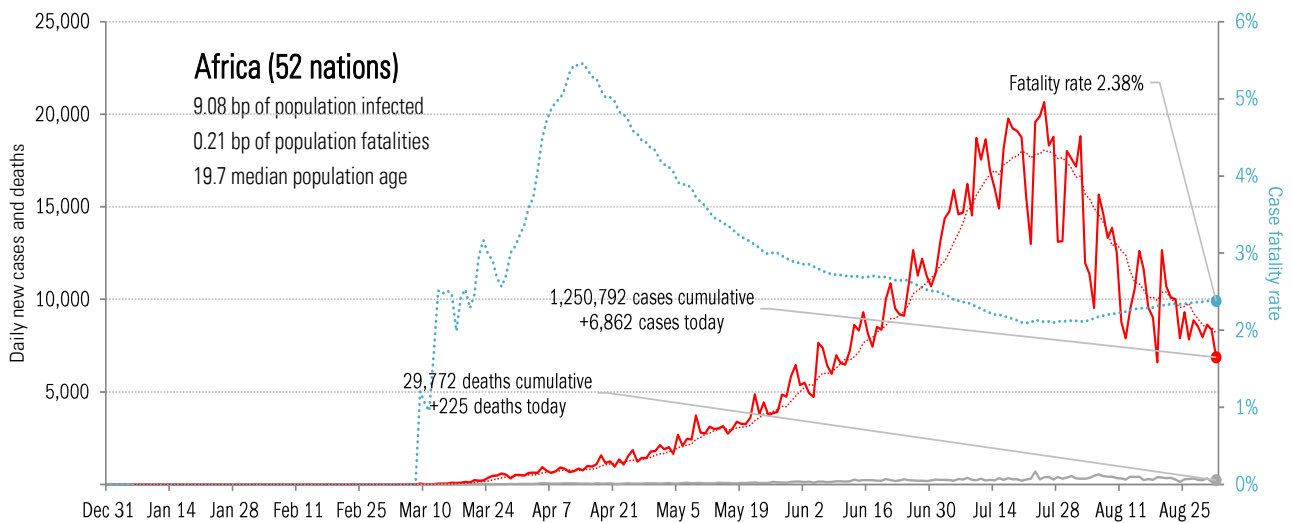
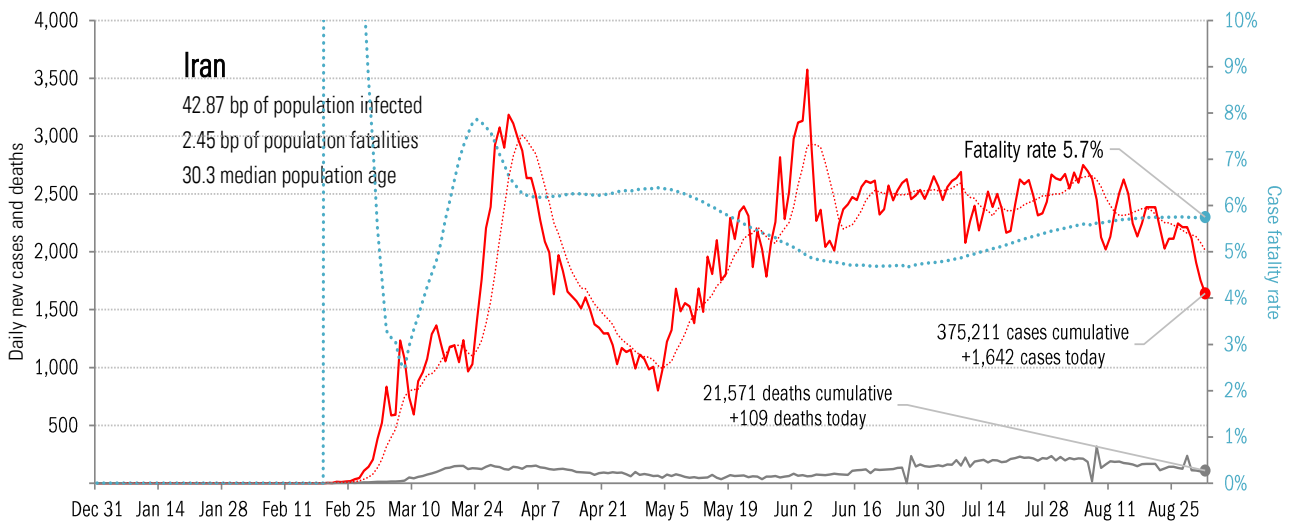
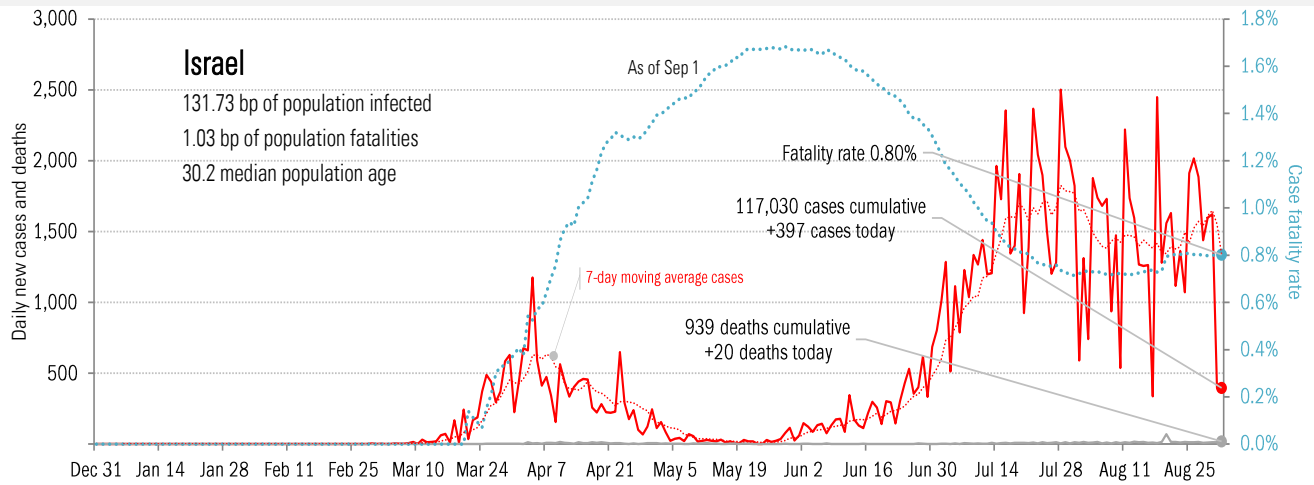
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations