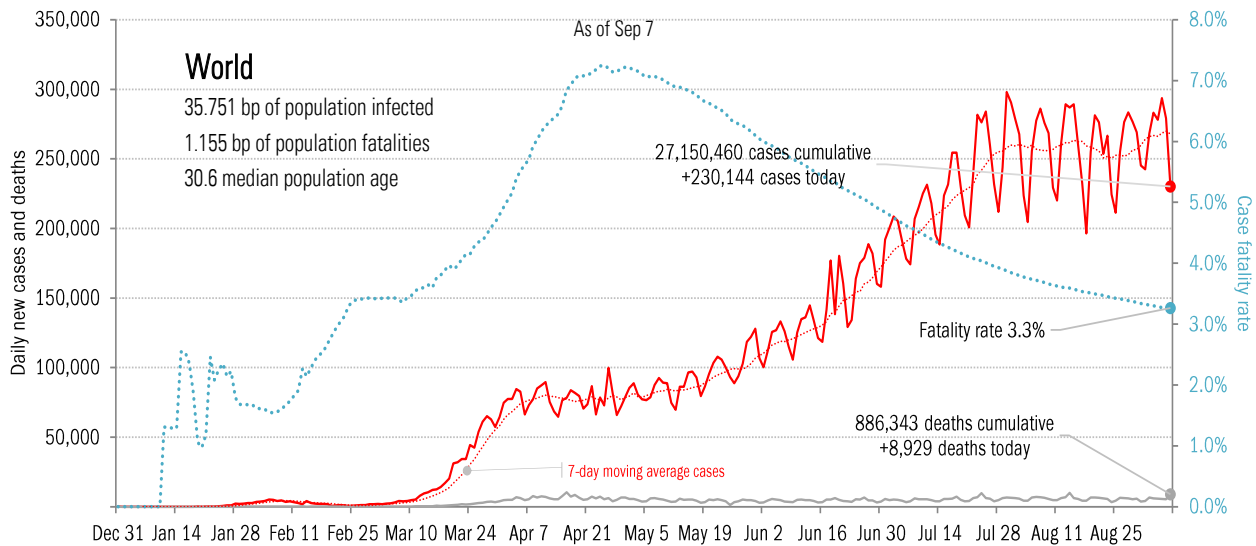
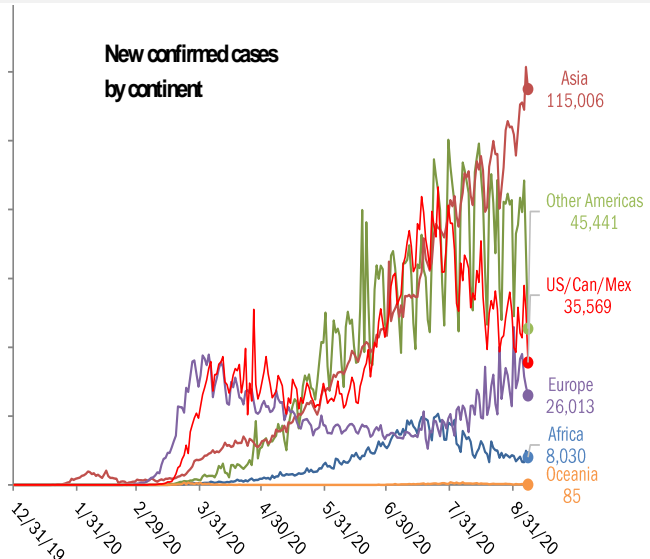


## Data Insights: Covid-2019 Monitor

Monday, September 7, 2020

### The global scorecard

| The worst ten countries |          |               |        |
|-------------------------|----------|---------------|--------|
| New cases               |          | New Deaths    |        |
| India                   | +90,802  | Ecuador       | +3,800 |
| US                      | +30,555  | Bolivia       | +1,610 |
| Brazil                  | +14,521  | India         | +1,016 |
| Argentina               | +9,924   | Brazil        | +447   |
| Colombia                | +8,065   | US            | +403   |
| France                  | +7,071   | Colombia      | +256   |
| Peru                    | +6,275   | Peru          | +151   |
| Russia                  | +5,195   | Iran          | +139   |
| Mexico                  | +4,614   | Argentina     | +122   |
| Iraq                    | +3,651   | South_Africa  | +110   |
| <b>+180,673</b>         |          | <b>+8,054</b> |        |
| World                   | +230,144 | World         | +8,929 |
| Top ten                 | 79%      | Top ten       | 90%    |



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

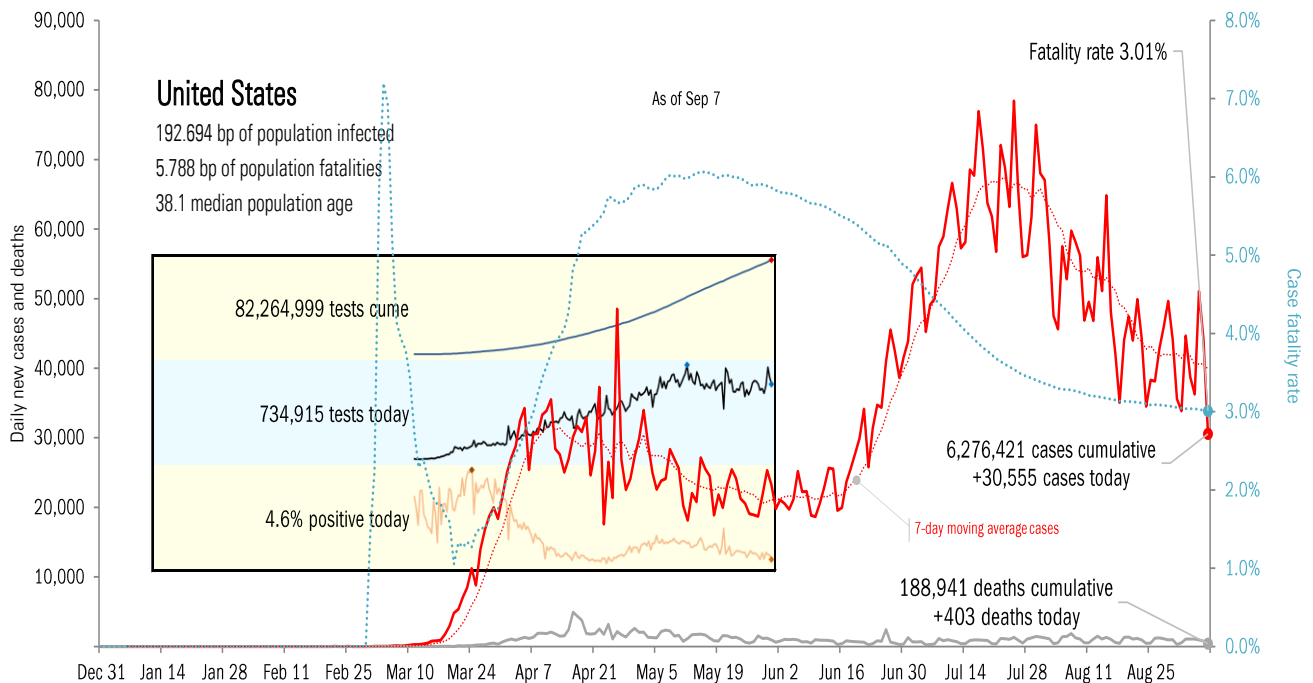
National and state-by-state data do not line up because of different sources

## The ten worst US states

| New cases      |         | New Deaths  |      | New in hospital |      | Curre cases      |           | Curre deaths   |         | Curre in hospital |         |
|----------------|---------|-------------|------|-----------------|------|------------------|-----------|----------------|---------|-------------------|---------|
| CA             | +4,905  | CA          | +66  | FL              | +114 | CA               | 732,144   | NY             | 25,359  | NY                | 89,995  |
| TX             | +2,995  | TX          | +64  | MD              | +57  | FL               | 646,431   | NJ             | 15,989  | FL                | 40,487  |
| FL             | +2,564  | GA          | +60  | IN              | +47  | TX               | 638,310   | CA             | 13,709  | GA                | 25,523  |
| TN             | +1,764  | LA          | +58  | MN              | +43  | NY               | 439,501   | TX             | 13,472  | NJ                | 22,796  |
| GA             | +1,651  | FL          | +38  | CH              | +33  | GA               | 283,199   | FL             | 12,001  | AZ                | 21,527  |
| IL             | +1,403  | MO          | +19  | VA              | +32  | IL               | 251,508   | MA             | 9,125   | VA                | 16,766  |
| LA             | +1,395  | MS          | +15  | GA              | +22  | AZ               | 205,766   | IL             | 8,390   | AL                | 14,914  |
| MO             | +1,232  | AZ          | +14  | WI              | +22  | NJ               | 194,058   | PA             | 7,760   | MD                | 14,573  |
| VA             | +1,199  | FR          | +13  | TN              | +20  | NC               | 176,901   | MI             | 6,806   | CH                | 13,841  |
| NC             | +1,086  | AR          | +12  | UT              | +19  | TN               | 164,126   | GA             | 6,037   | MA                | 12,350  |
| <b>+20,194</b> |         | <b>+359</b> |      | <b>+409</b>     |      | <b>3,731,944</b> |           | <b>118,648</b> |         | <b>272,772</b>    |         |
| All states     | +33,767 | All states  | +449 | All states      | +483 | All states       | 6,247,397 | All states     | 181,104 | All states        | 378,387 |
| Top ten        | 60%     | Top ten     | 80%  | Top ten         | 85%  | Top ten          | 60%       | Top ten        | 66%     | Top ten           | 72%     |

## Five most improved US states

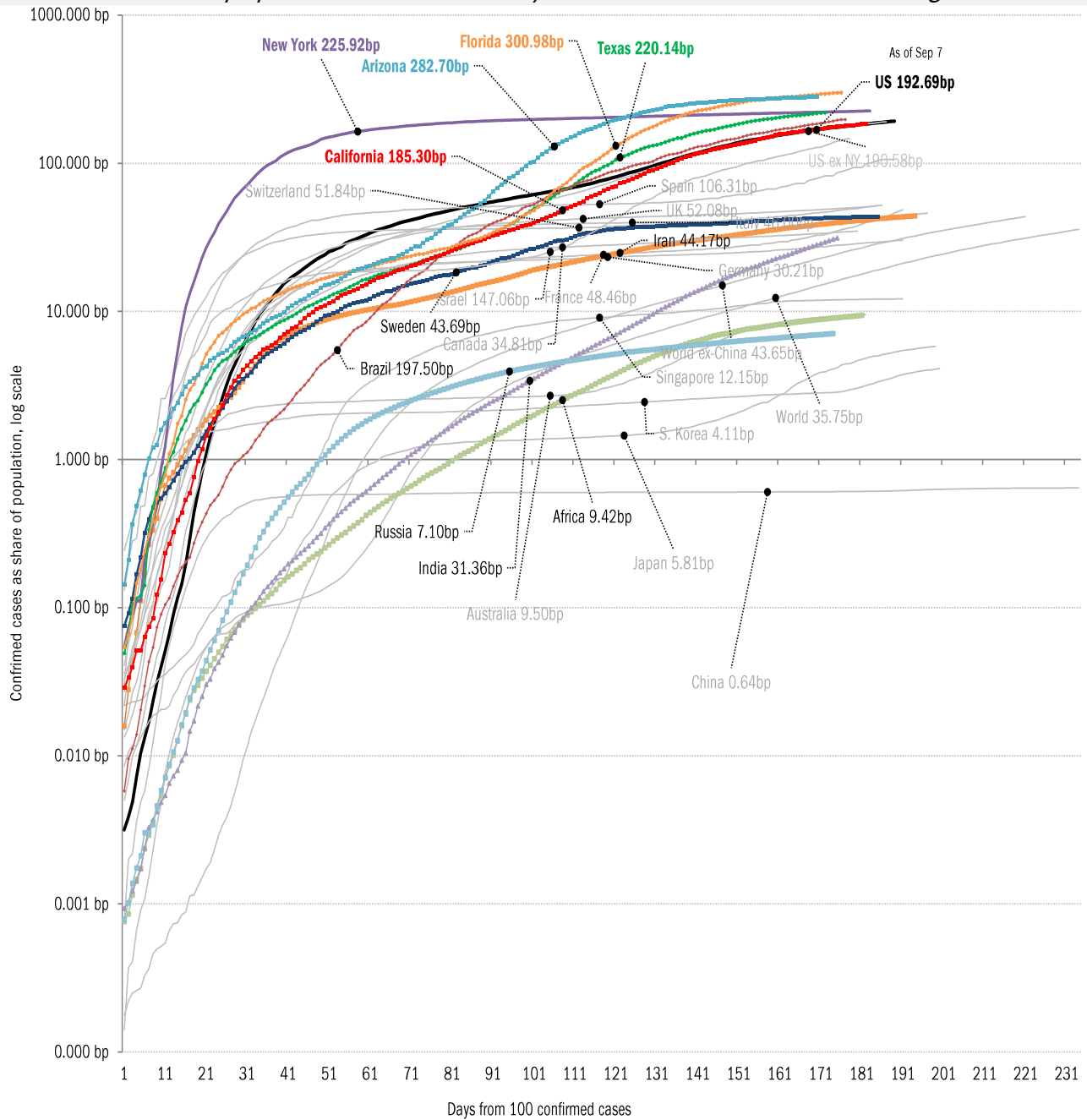
| Fewer daily cases |        | Fewer new deaths |      | Fewer new hospitalizations |      | Most recoveries |        |
|-------------------|--------|------------------|------|----------------------------|------|-----------------|--------|
| TX                | -1,491 | TX               | -113 | FL                         | -132 | TX              | +5,130 |
| IL                | -1,403 | CA               | -87  | AL                         | -113 | PA              | +1,953 |
| FL                | -1,092 | MO               | -58  | VA                         | -109 | TN              | +976   |
| AL                | -899   | NC               | -49  | GA                         | -77  | MIN             | +956   |
| MI                | -896   | AZ               | -22  | TN                         | -50  | WI              | +753   |



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



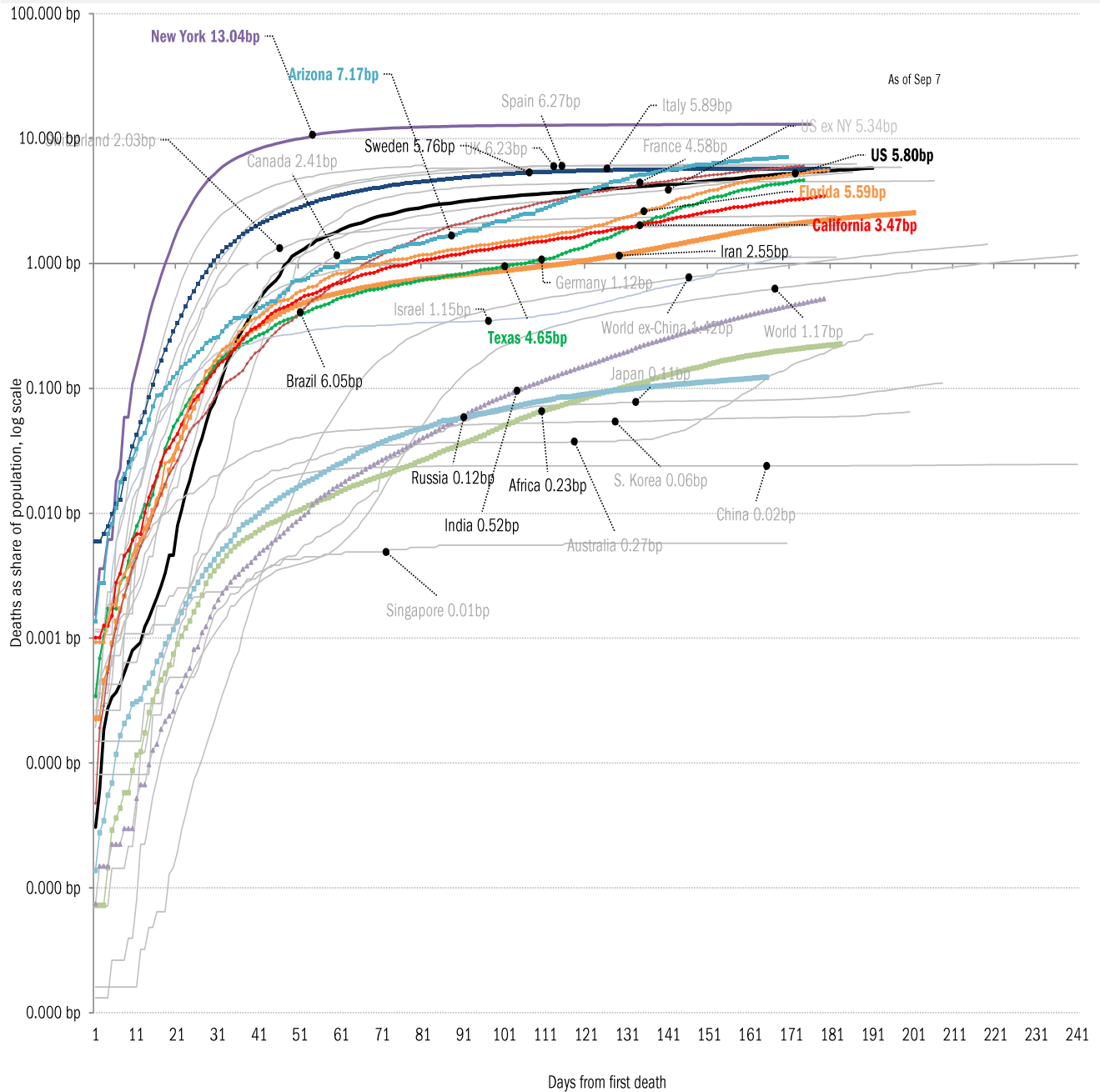
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



Source: [ECDC](#), TrendMacro calculations

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

## Share of deceased population from day of first fatality

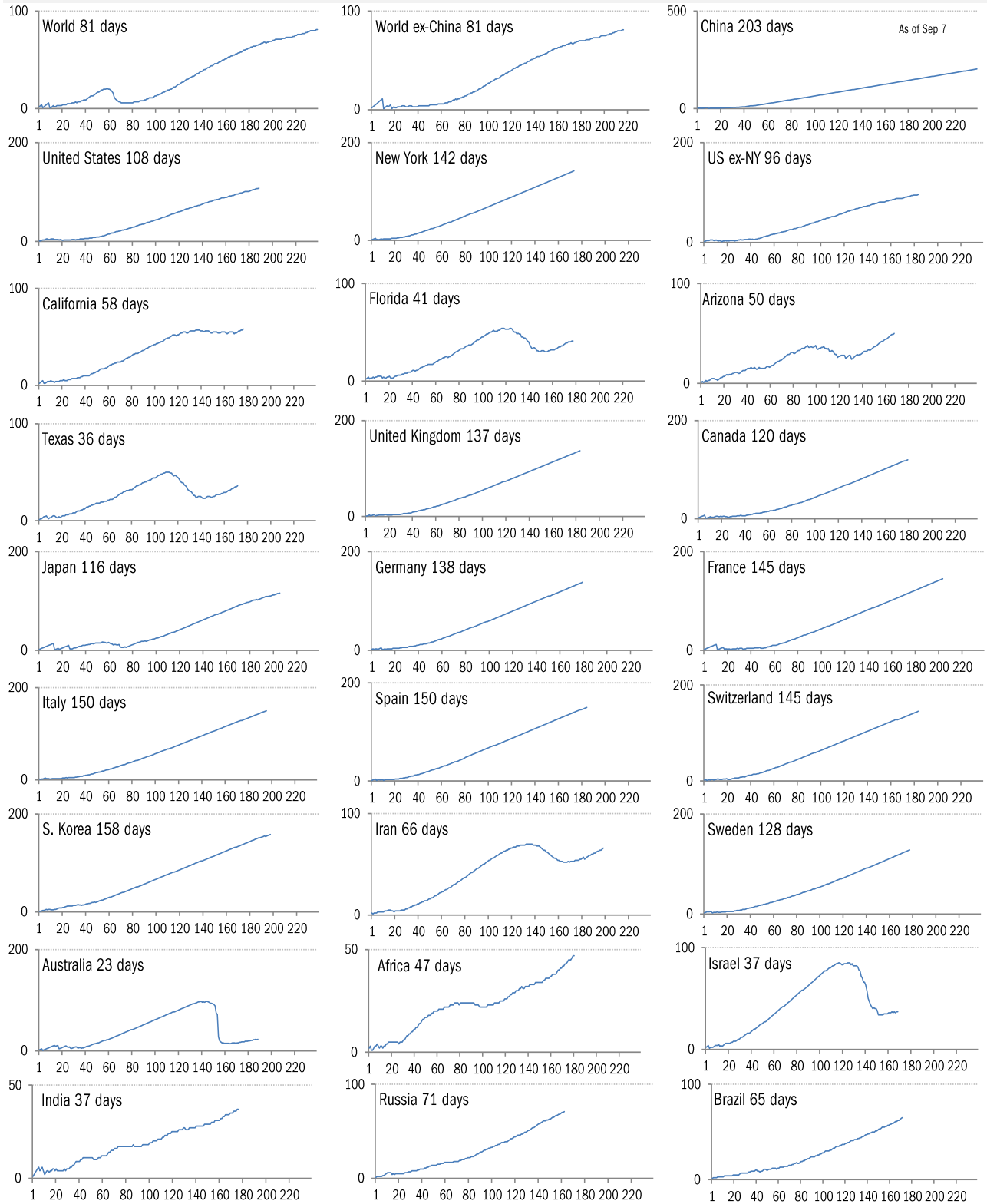


Source: [ECDC](#), TrendMacro calculations

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

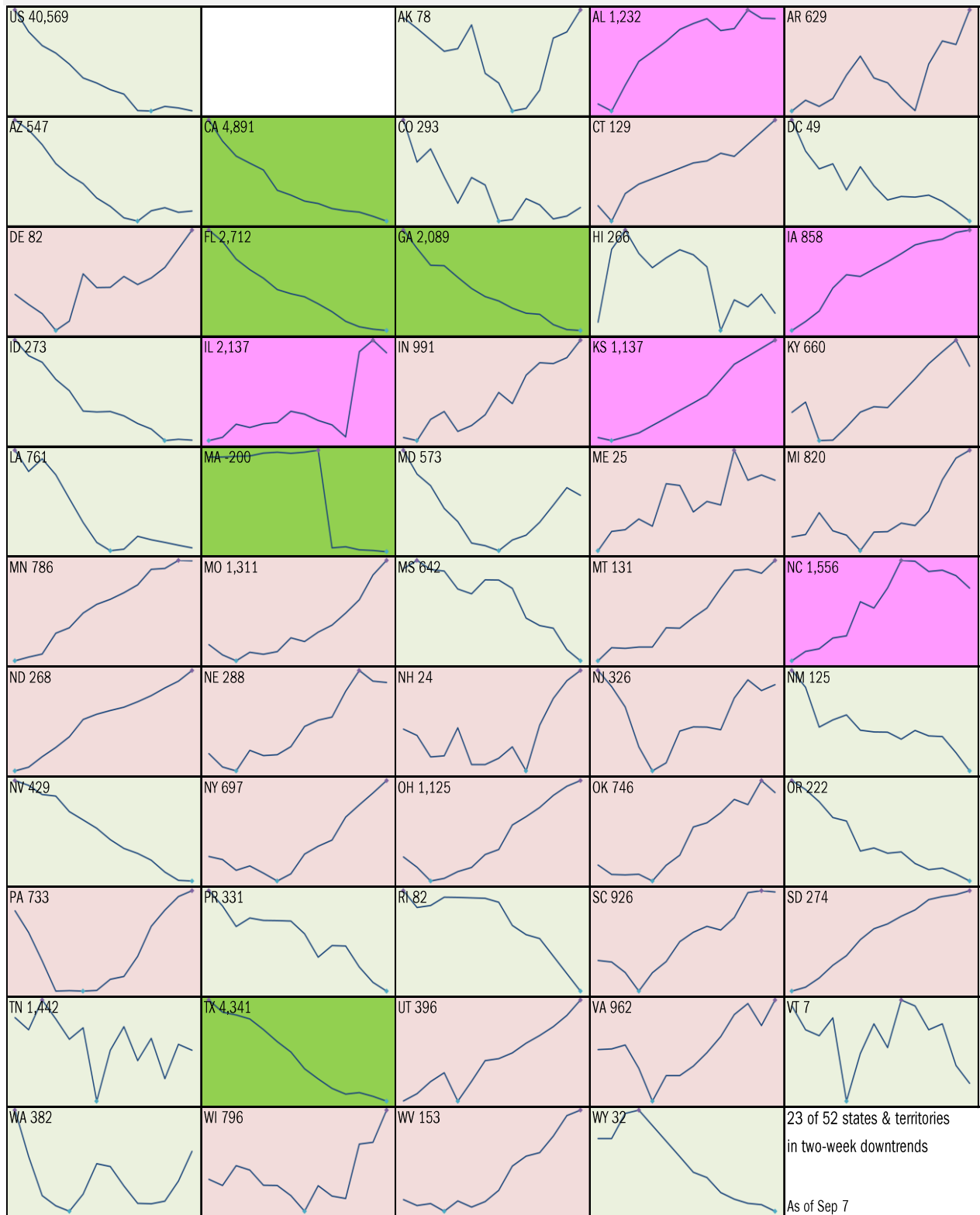
Vertical: days to double deaths Horizontal: days from first death

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



Source: [ECDC](https://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

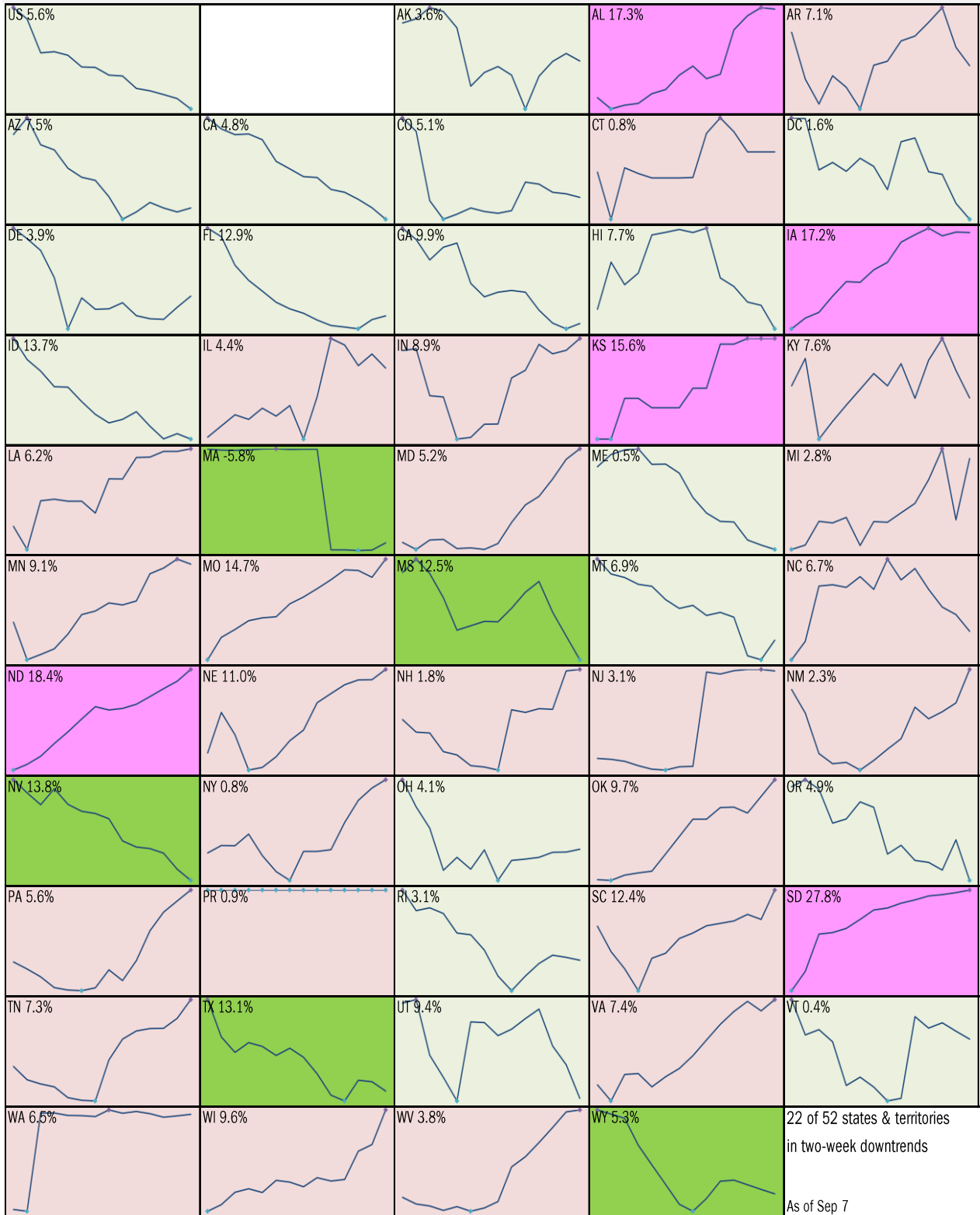


Source: [Covid Tracking Project](#), TrendMacro calculations

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

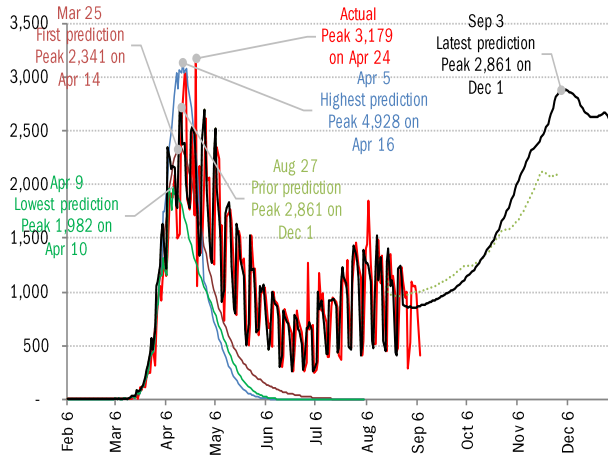


# Reality-checking the models: actuals versus IHME predictions

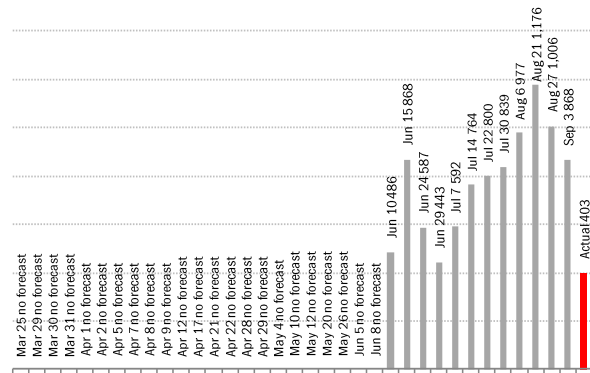
## New daily fatalities

As of Sep 7

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

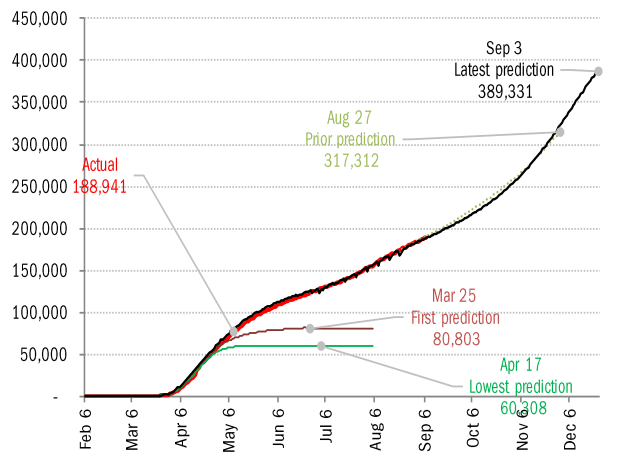


For this day, versus all model mean predictions

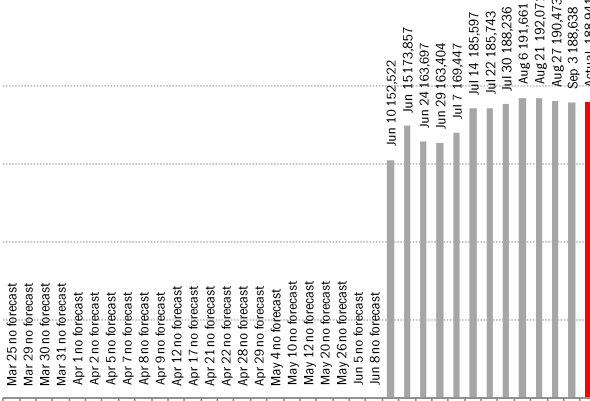


## Cumulative fatalities

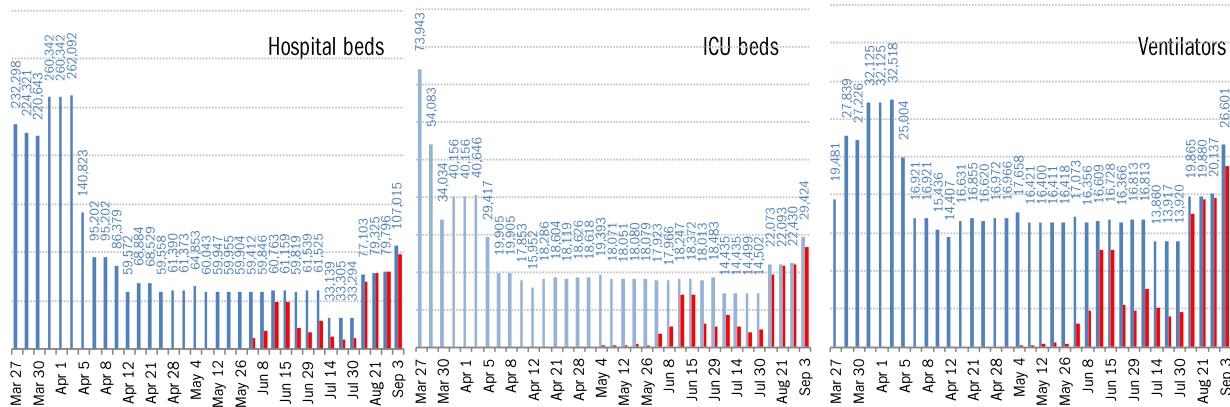
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

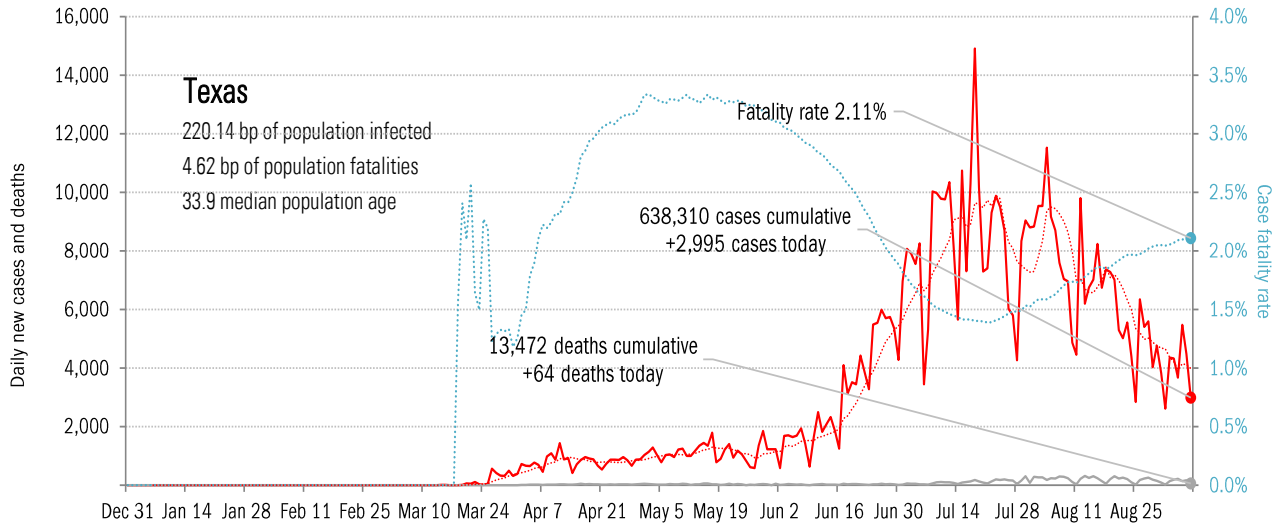
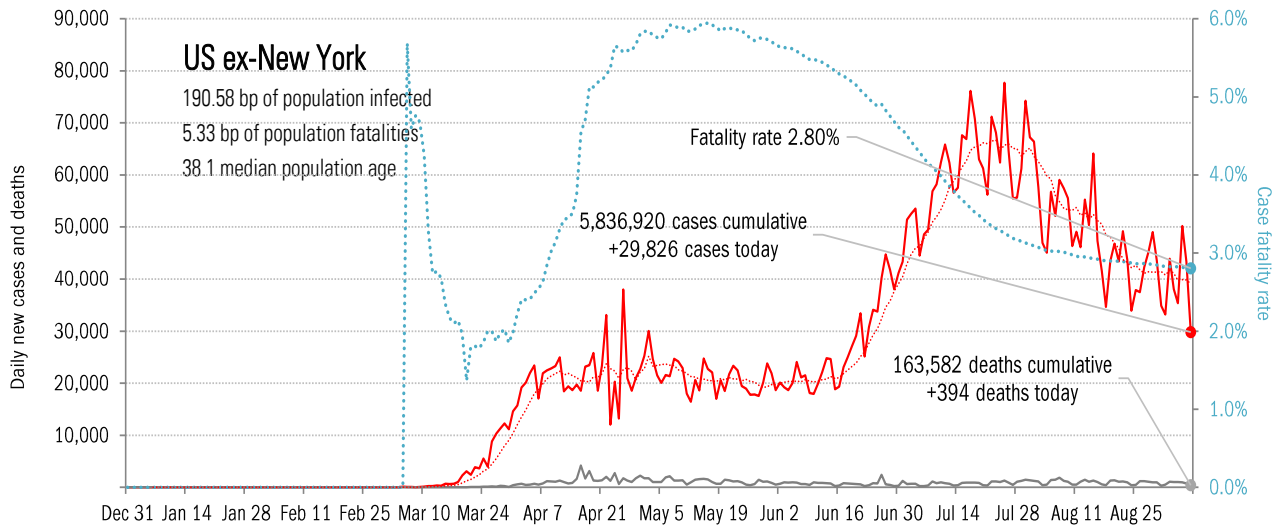
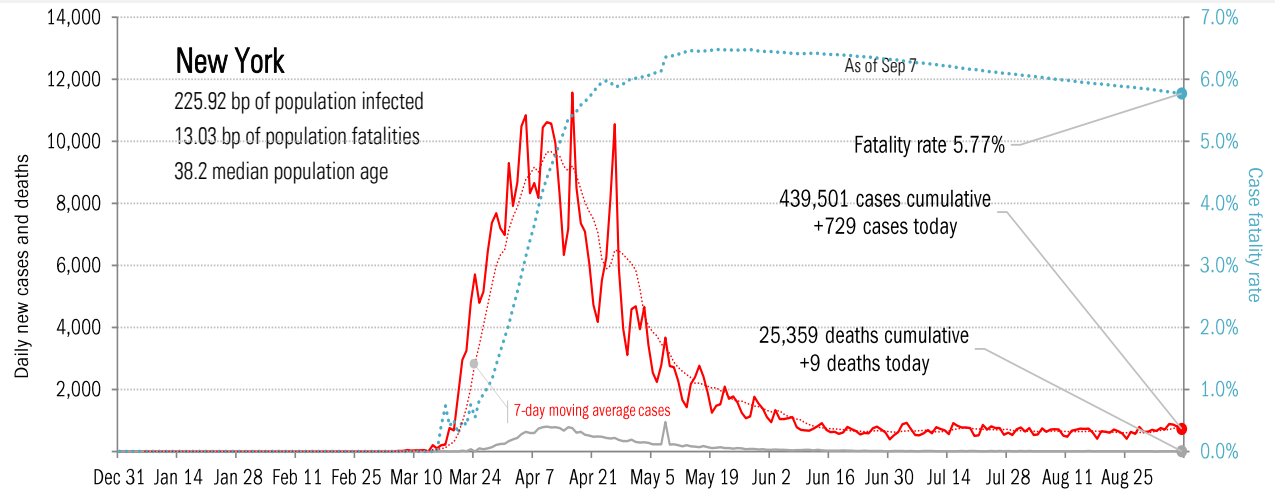


## Healthcare system stress, peak and ultimate estimated at each model revision



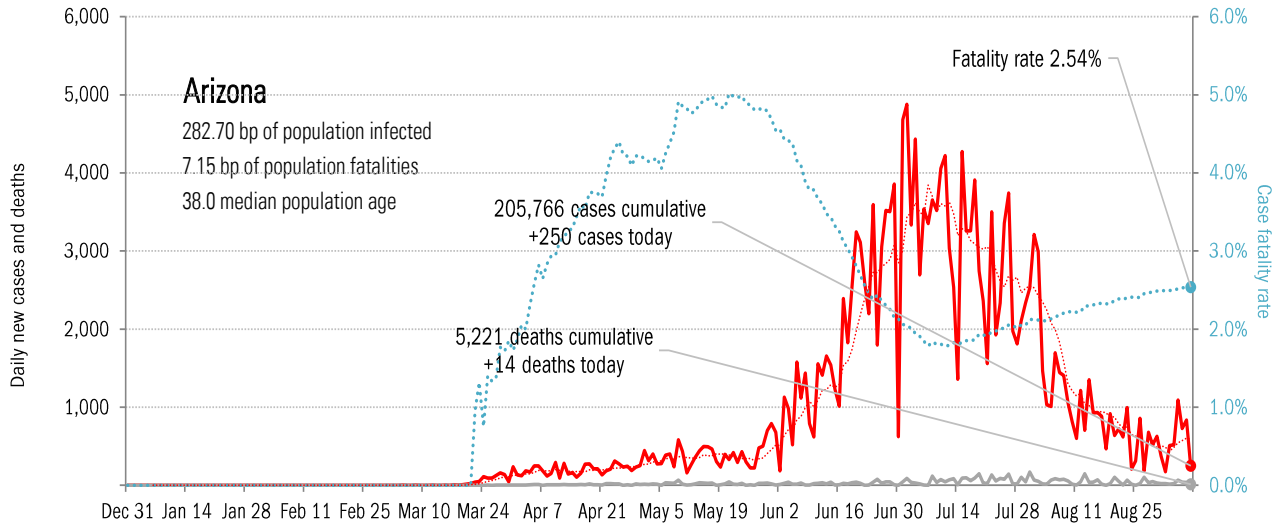
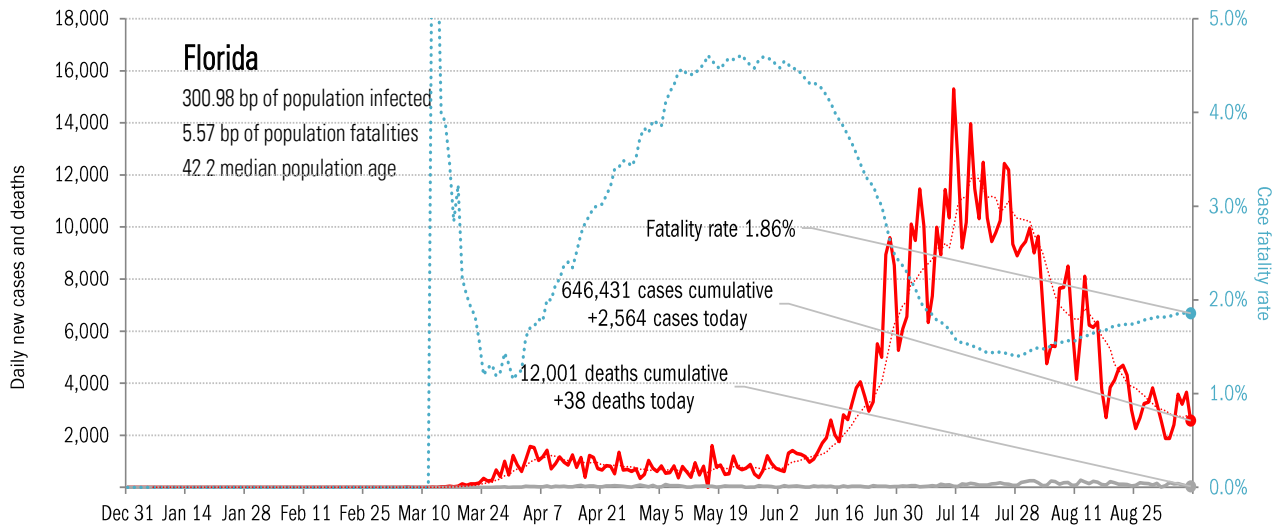
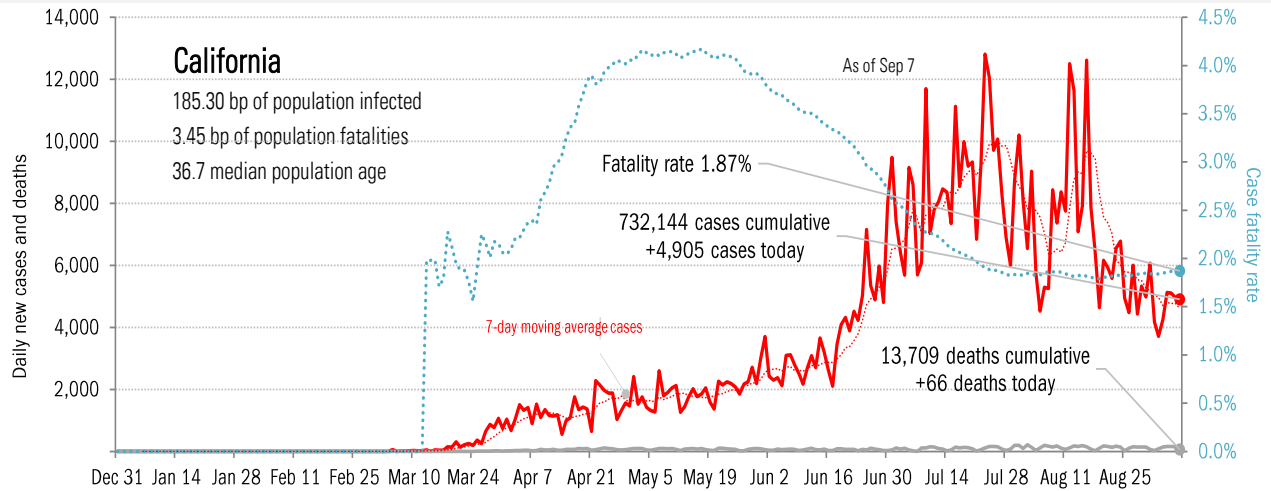
Source: [ECDC](#), [IHME](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



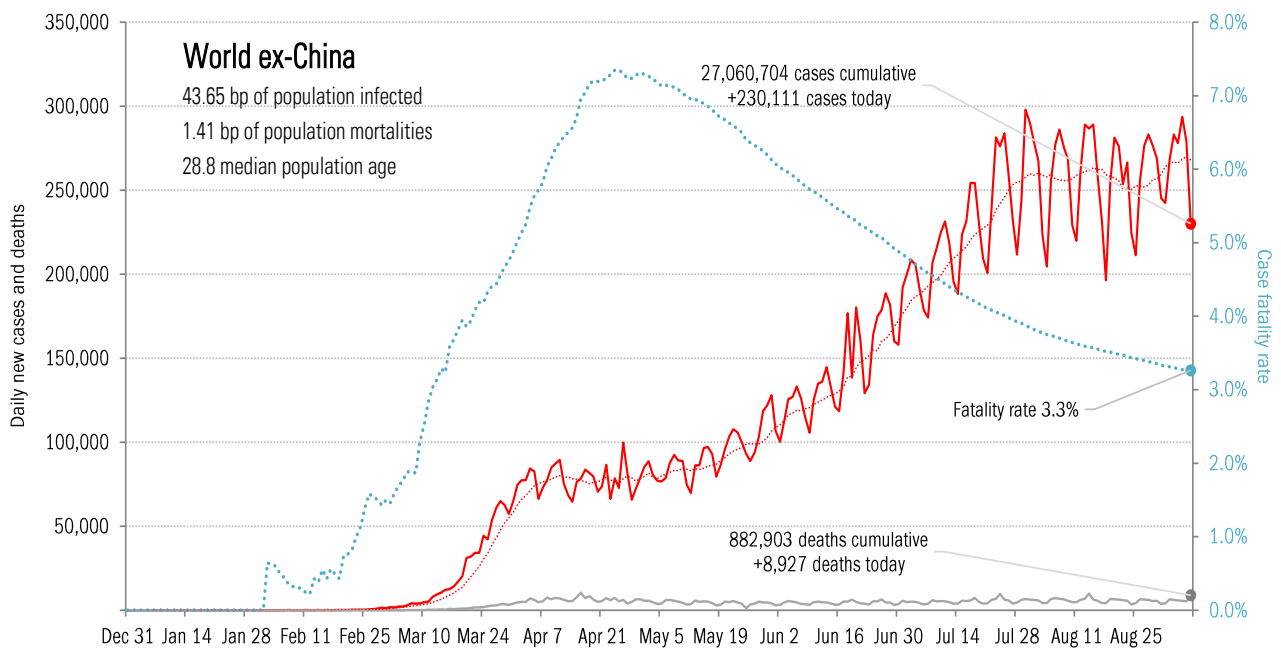
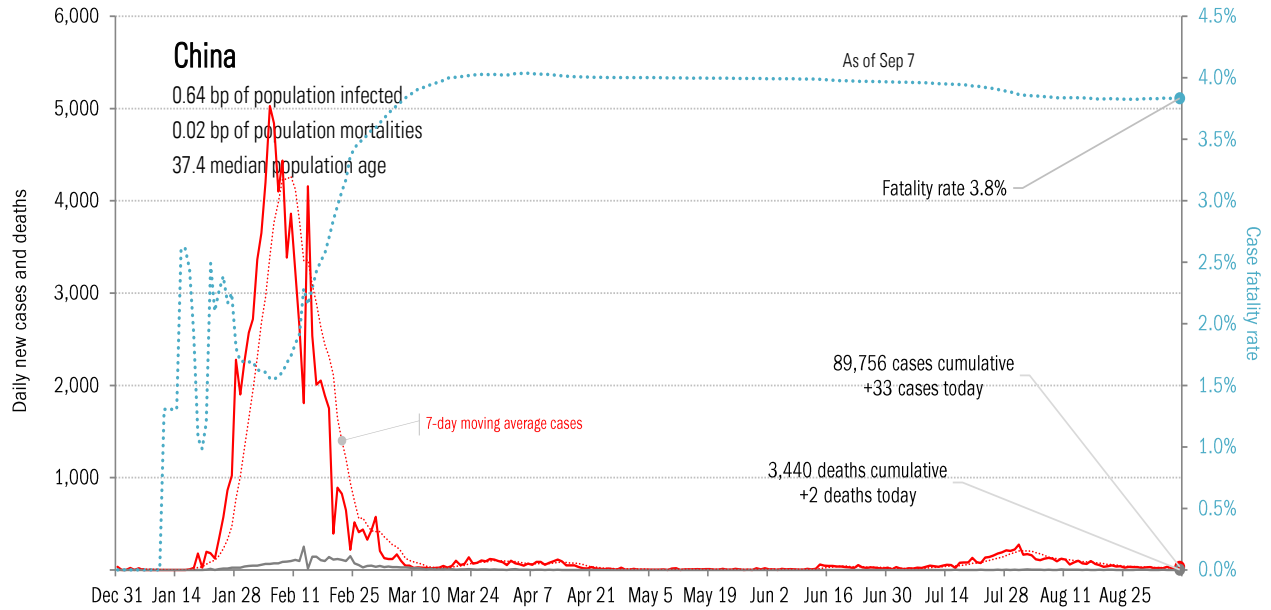
Source: [ECDC](#), TrendMacro calculations

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



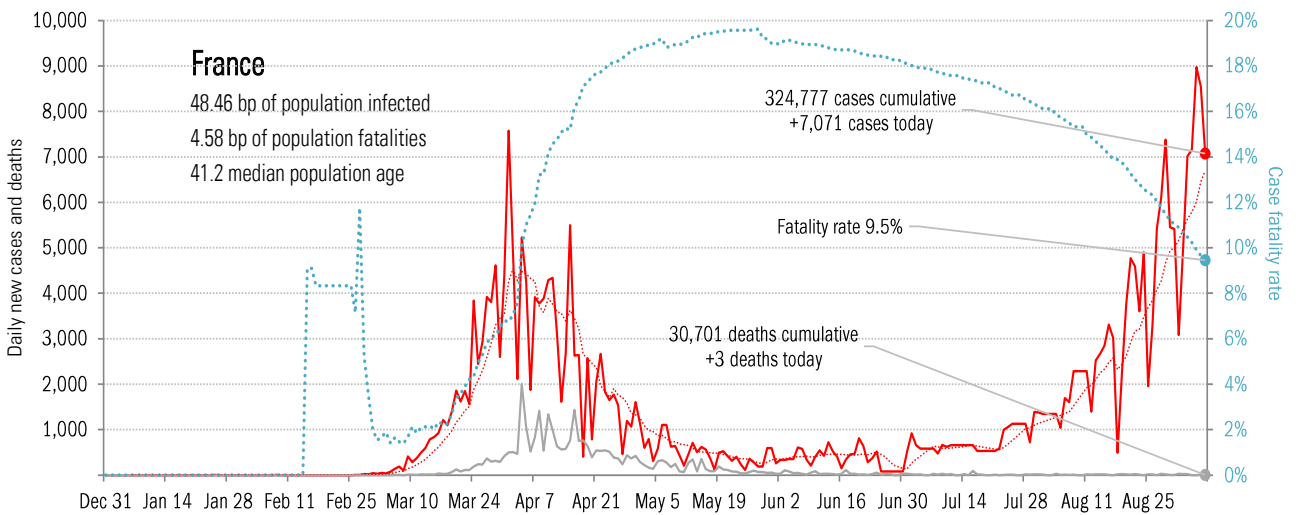
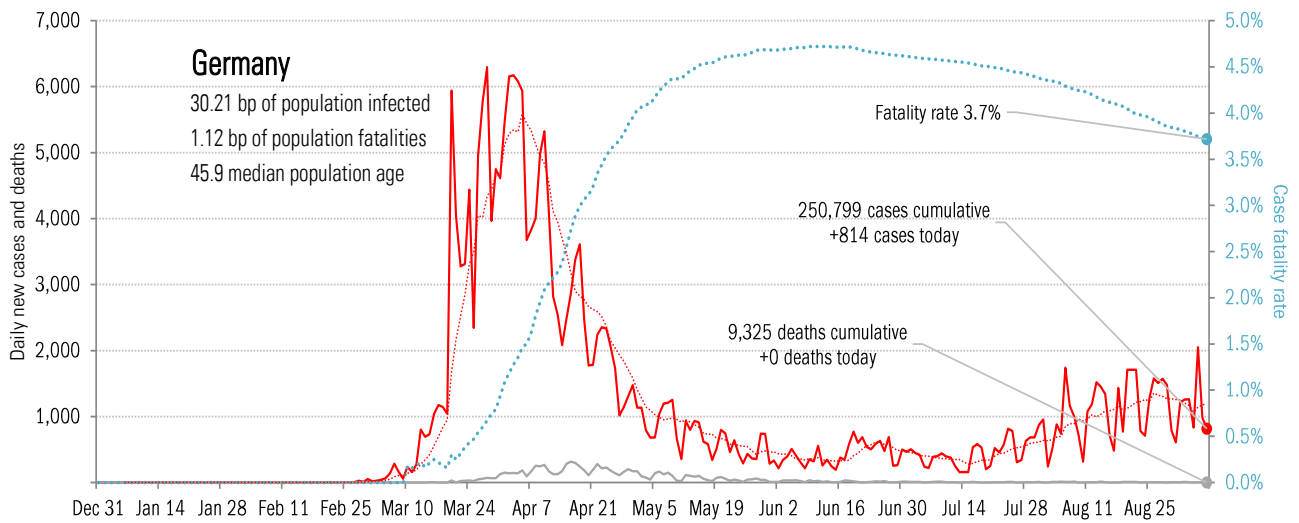
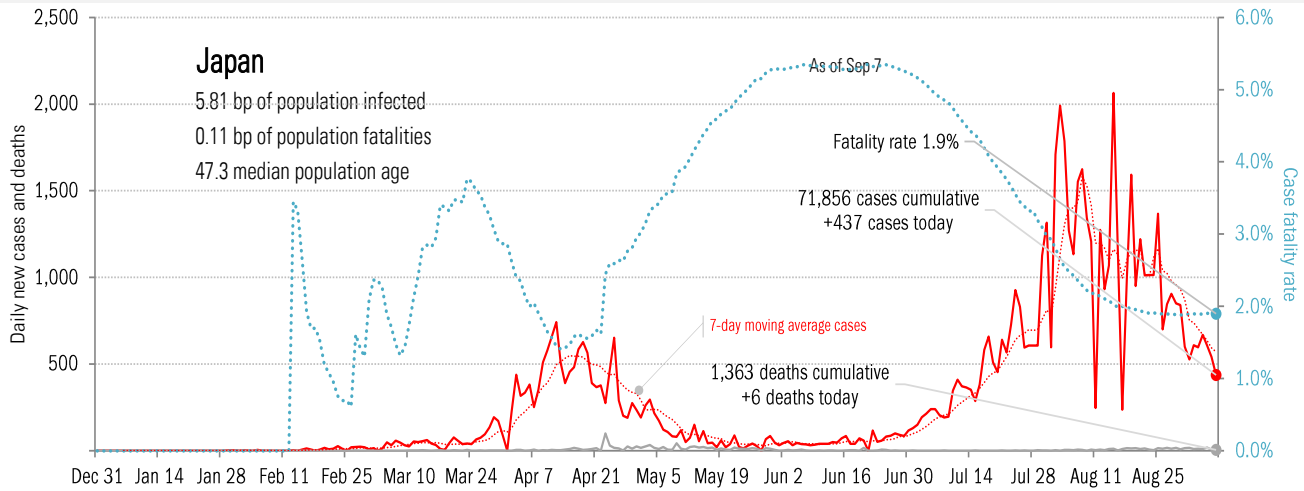
Source: [ECDC](#), TrendMacro calculations

# Patient zero... and then everyone else



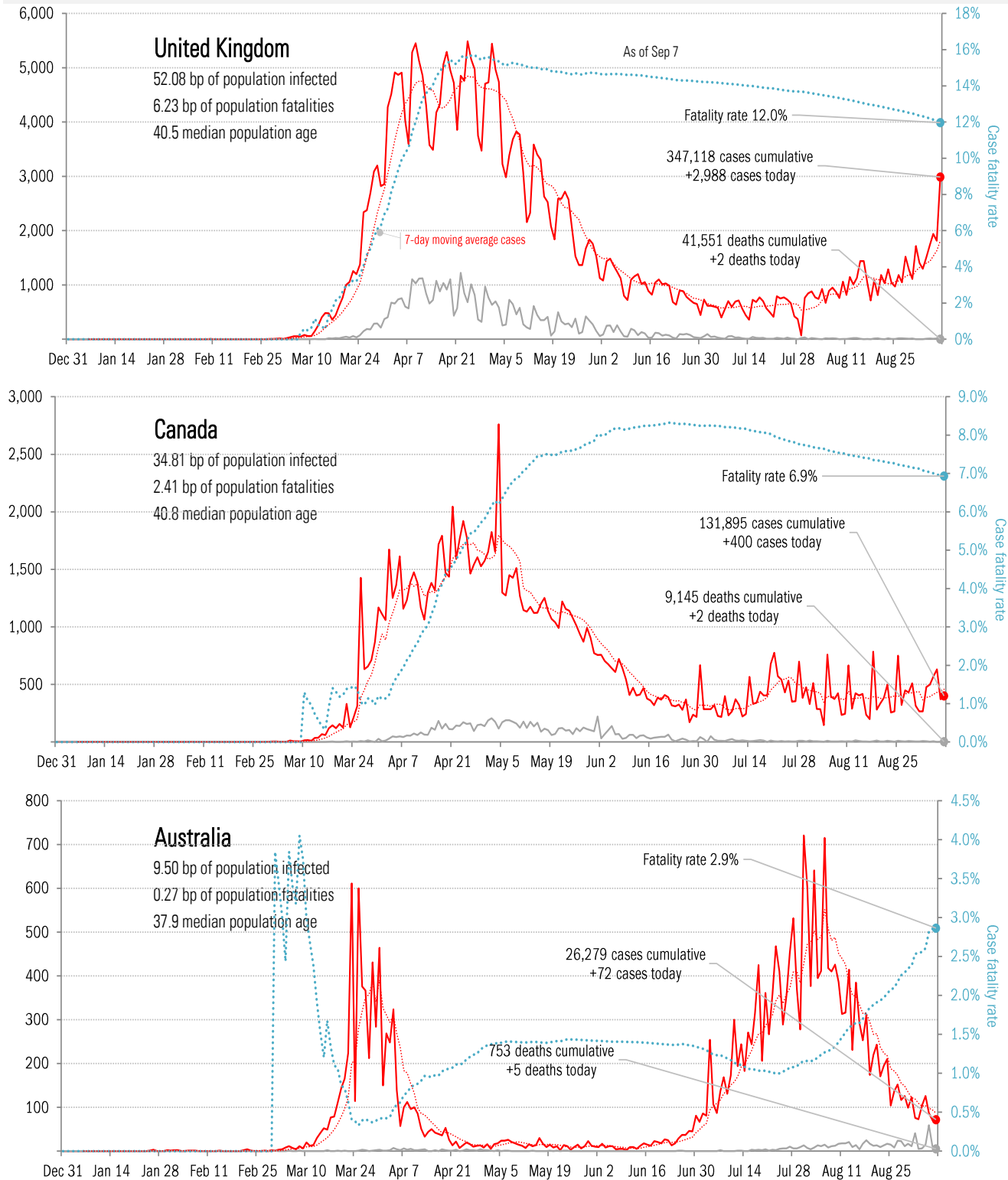
Source: [ECDC](#), TrendMacro calculations

# Impact in the largest economies



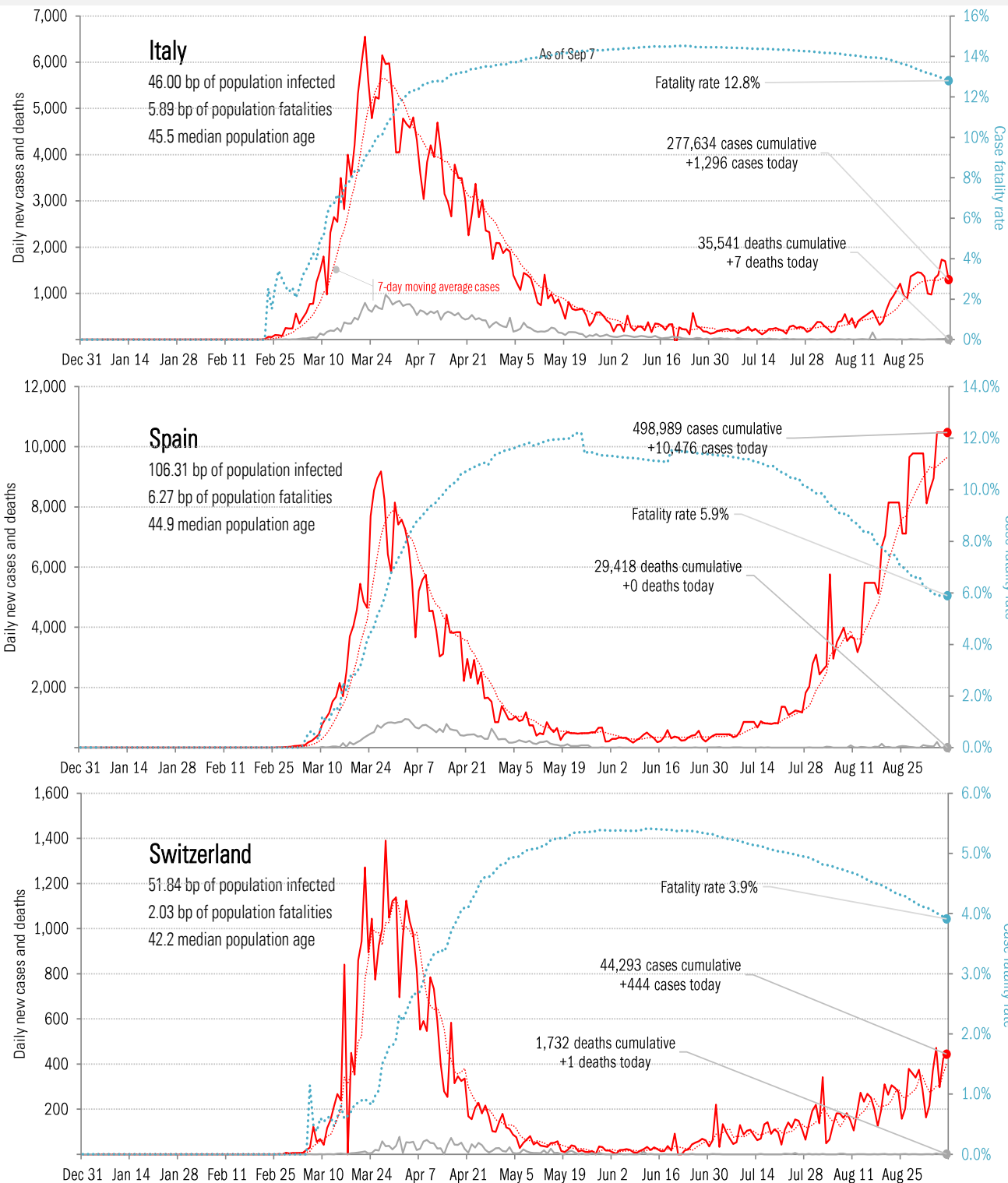
Source: [ECDC](#), TrendMacro calculations

# Impact in The Anglosphere



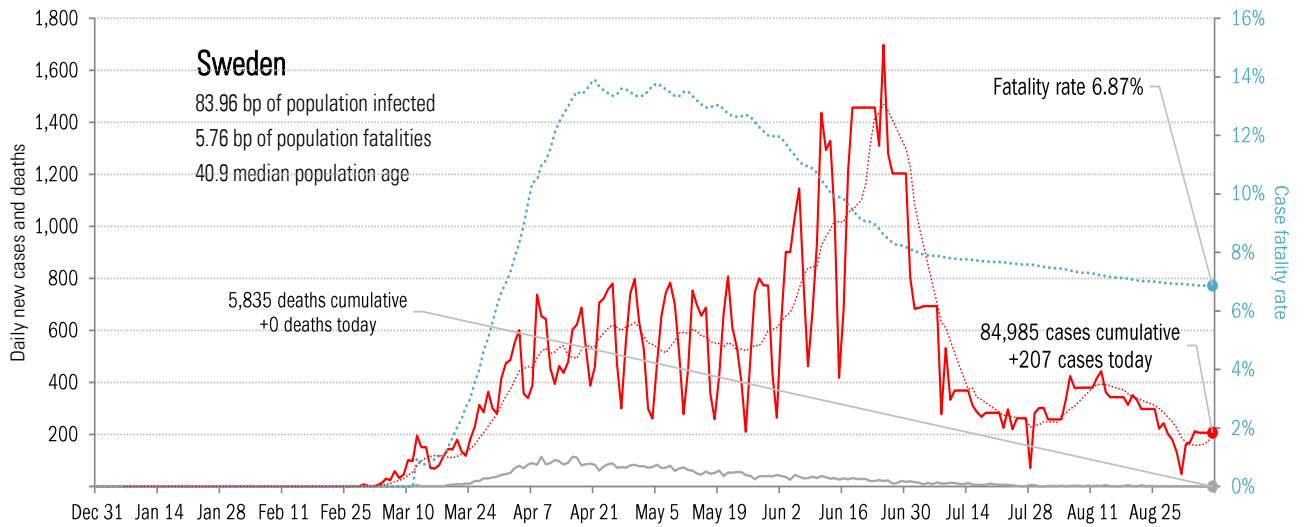
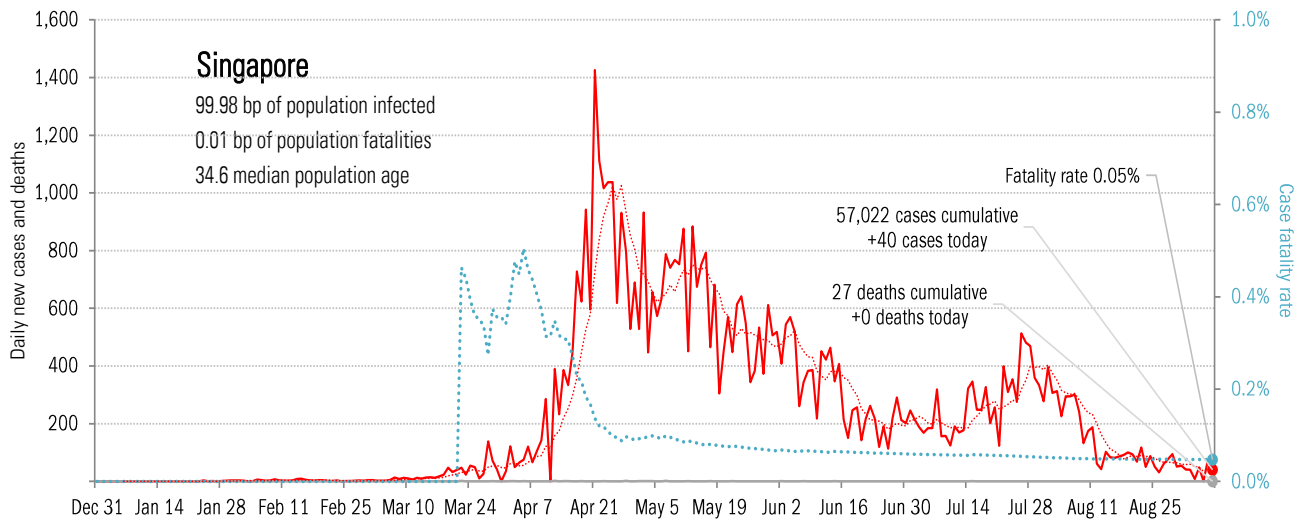
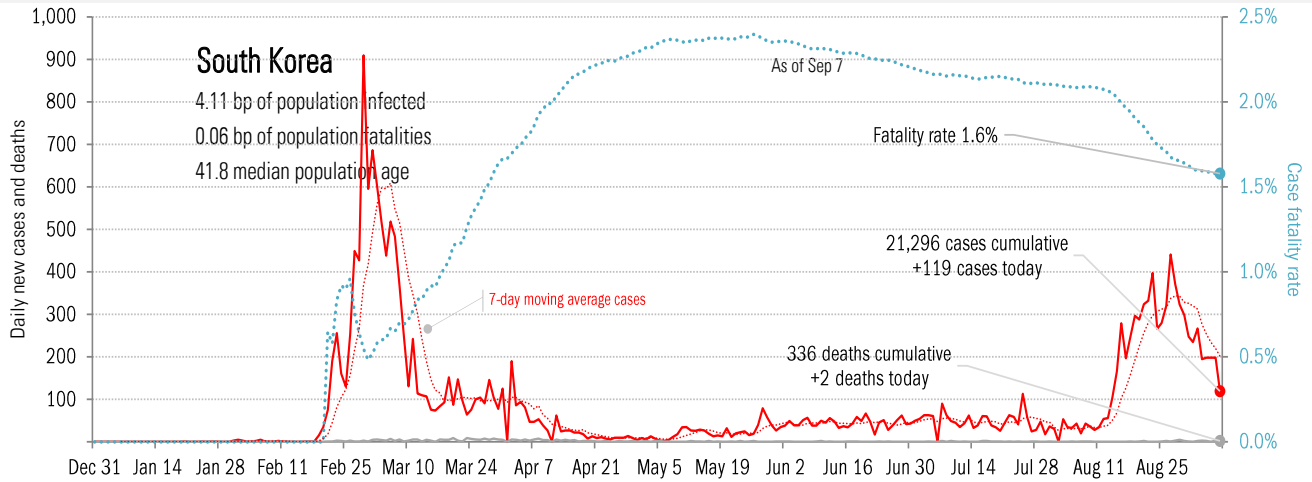
Source: [ECDC](#), TrendMacro calculations

# Impact in continental Europe



Source: [ECDC](#), TrendMacro calculations

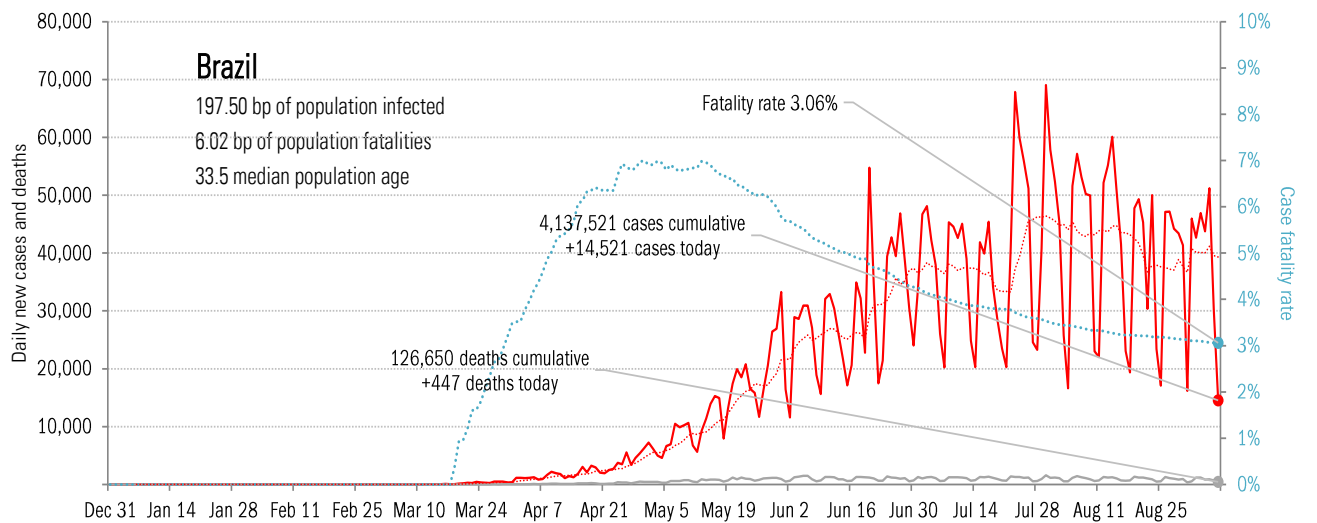
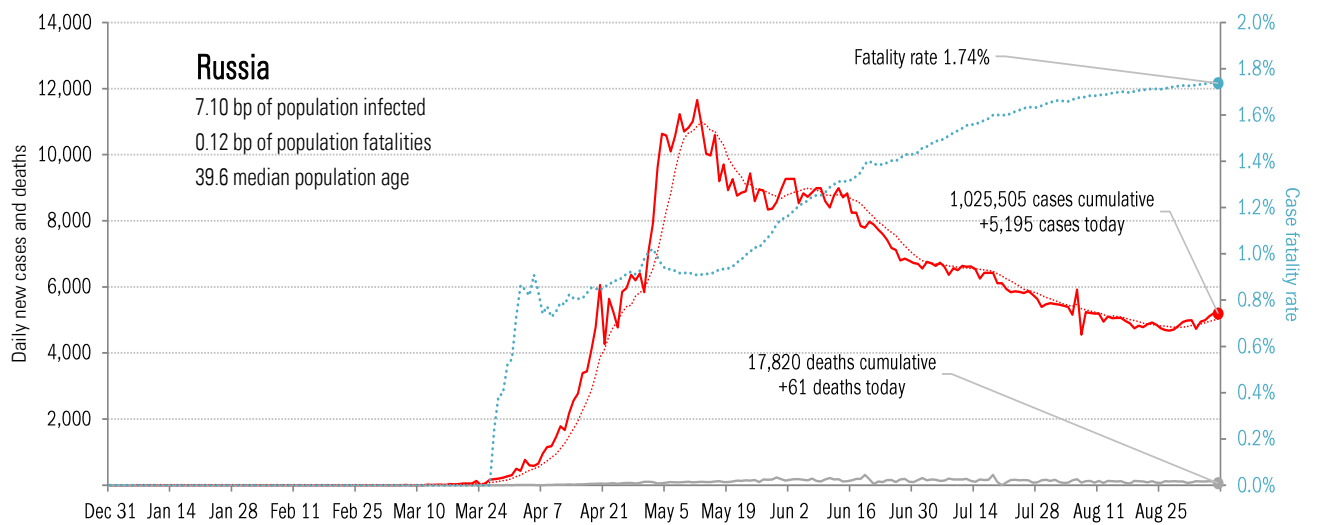
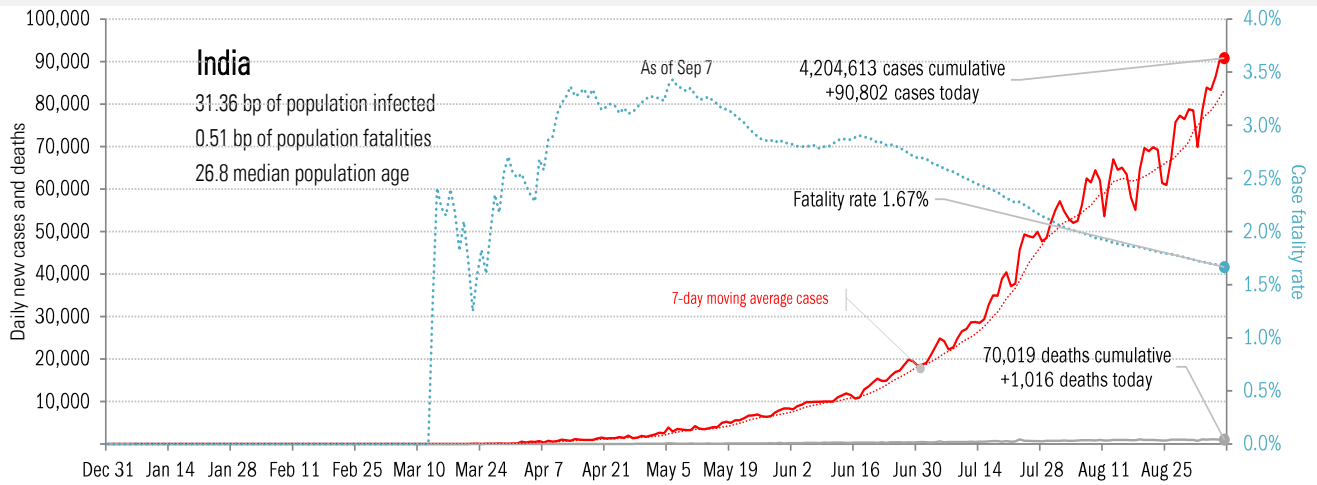
# Impact in other hot-spots



Source: [ECDC](#), TrendMacro calculations

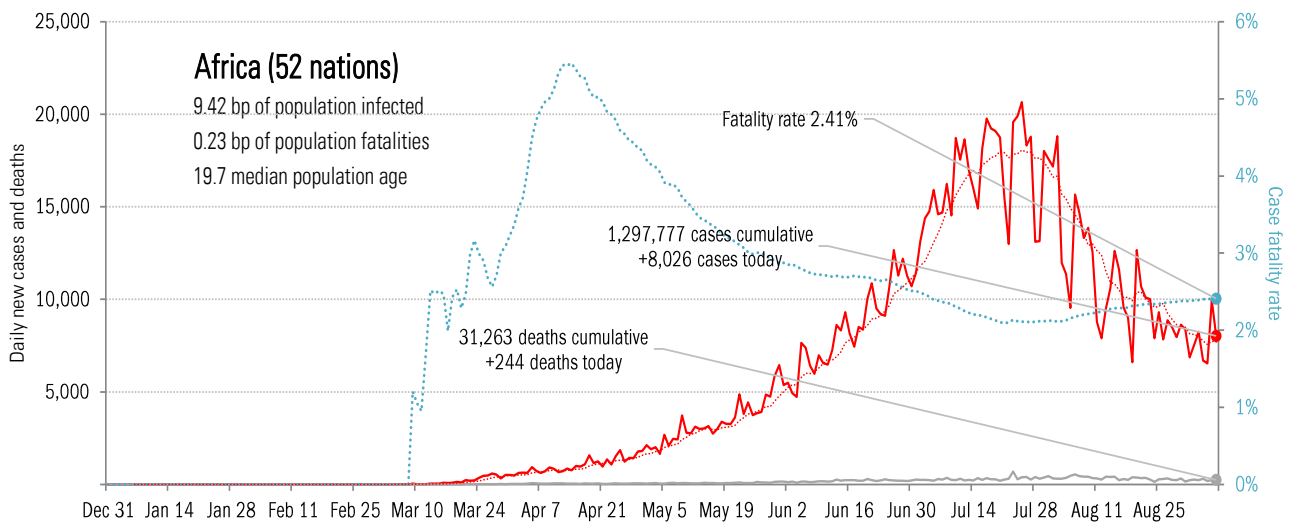
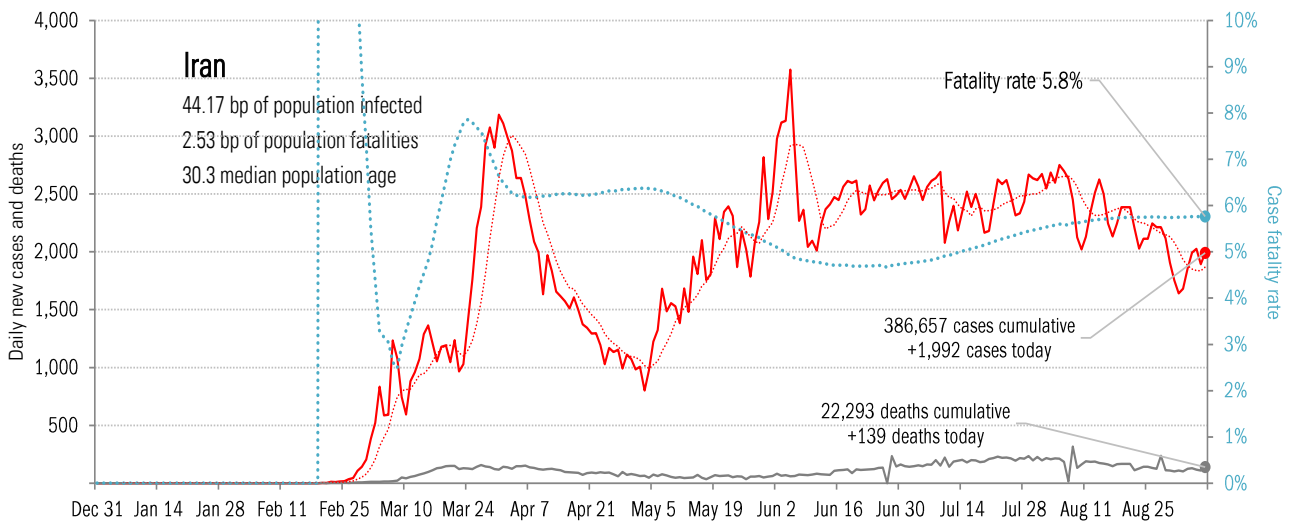
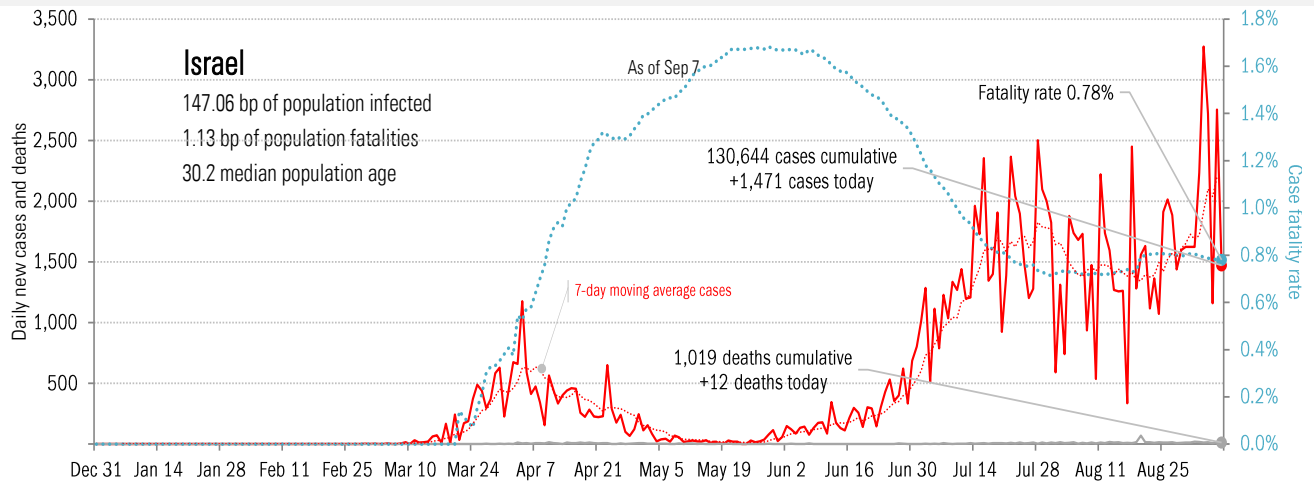


# Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

# Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations