

## Data Insights: Covid-2019 Monitor

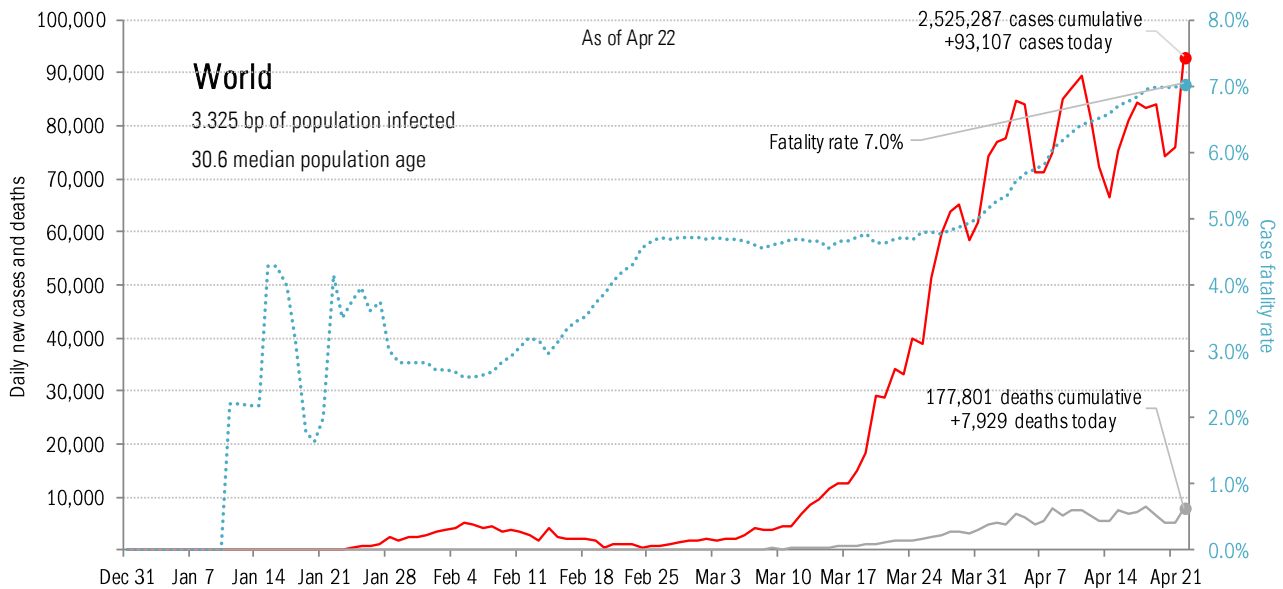
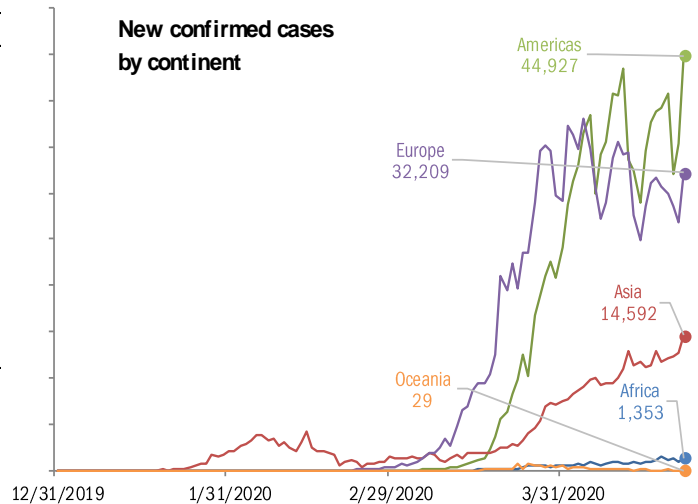
Wednesday, April 22, 2020

### The global scorecard

#### The worst ten countries

| New cases  |         | New Deaths |        |
|------------|---------|------------|--------|
| US         | +37,289 | US         | +2,524 |
| Russia     | +5,642  | Iran       | +1,082 |
| Turkey     | +4,611  | UK         | +828   |
| San_Marino | +4,304  | Italy      | +534   |
| UK         | +4,301  | France     | +531   |
| Spain      | +3,968  | Spain      | +430   |
| Italy      | +2,729  | Germany    | +281   |
| France     | +2,667  | Sweden     | +185   |
| Singapore  | +2,537  | Belgium    | +170   |
| Brazil     | +2,498  | Brazil     | +166   |
| <hr/>      |         | <hr/>      |        |
|            | +70,546 |            | +6,731 |
| World      | +93,107 | World      | +7,929 |
| Top ten    | 76%     | Top ten    | 85%    |

#### New confirmed cases by continent



Source: [ECDC](#), TrendMacro calculations

#### For more information contact us:

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 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

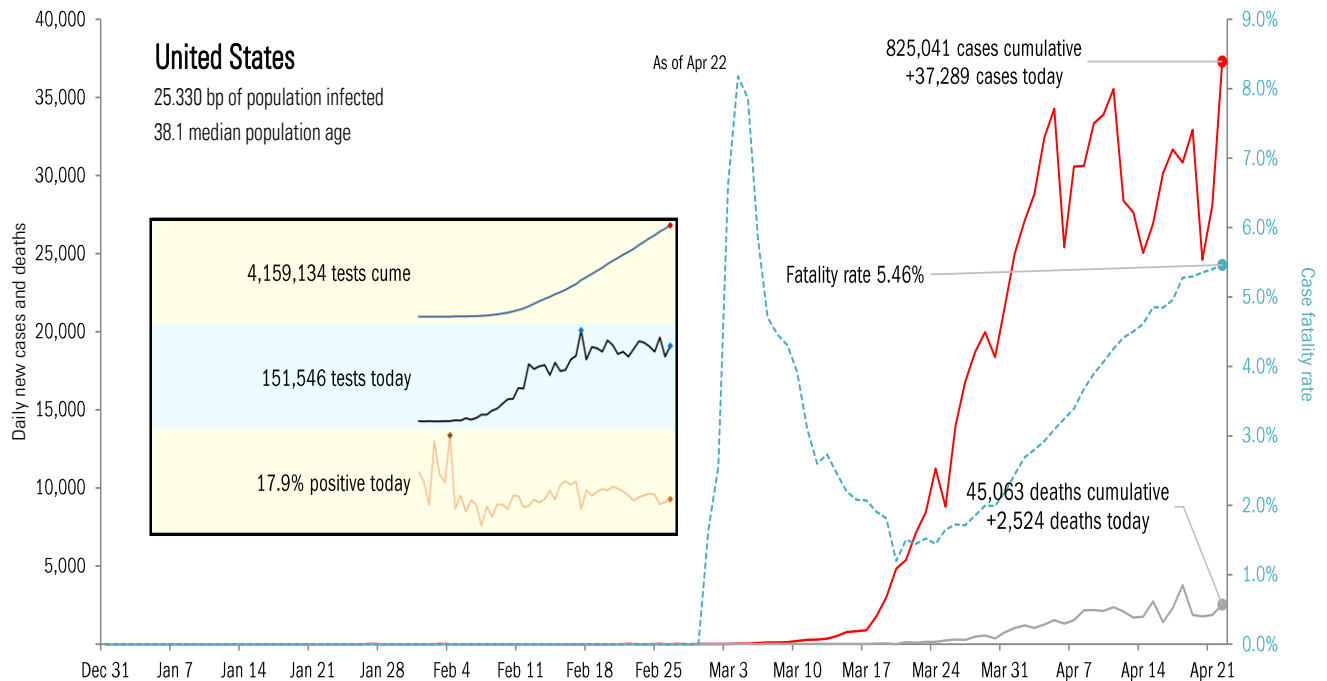
National and state-by-state data do not line up because of different sources

## The ten worst US states

| New cases      |         | New Deaths    |        | New in hospital |        | Cure cases     |         | Cure deaths   |        | Cure in hospital |        |
|----------------|---------|---------------|--------|-----------------|--------|----------------|---------|---------------|--------|------------------|--------|
| NY             | +4,178  | NY            | +481   | RI              | +245   | NY             | 251,690 | NY            | 14,828 | NY               | 57,103 |
| NJ             | +3,581  | NJ            | +376   | GA              | +229   | NJ             | 92,387  | NJ            | 4,753  | FL               | 4,235  |
| MA             | +3,122  | PA            | +360   | FL              | +225   | MA             | 41,199  | MI            | 2,700  | GA               | 3,779  |
| CA             | +2,283  | MA            | +255   | MD              | +144   | PA             | 34,528  | MA            | 1,961  | MD               | 3,158  |
| IL             | +1,551  | MI            | +232   | OH              | +126   | CA             | 33,261  | PA            | 1,564  | OH               | 2,779  |
| PA             | +1,296  | IL            | +119   | VA              | +81    | IL             | 33,059  | IL            | 1,468  | CO               | 1,880  |
| MI             | +967    | CT            | +92    | CO              | +67    | MI             | 32,967  | CT            | 1,423  | VA               | 1,581  |
| GA             | +934    | LA            | +77    | AL              | +58    | FL             | 27,495  | LA            | 1,405  | WI               | 1,252  |
| FL             | +835    | MD            | +68    | WI              | +41    | LA             | 24,854  | CA            | 1,268  | KY               | 1,059  |
| TX             | +738    | GA            | +66    | MS              | +39    | CT             | 20,360  | FL            | 856    | MS               | 858    |
| <b>+19,485</b> |         | <b>+2,126</b> |        | <b>+1,255</b>   |        | <b>591,800</b> |         | <b>32,226</b> |        | <b>77,684</b>    |        |
| All states     | +27,193 | All states    | +2,674 | All states      | +1,413 | All states     | 799,717 | All states    | 39,995 | All states       | 84,292 |
| Top ten        | 72%     | Top ten       | 80%    | Top ten         | 89%    | Top ten        | 74%     | Top ten       | 81%    | Top ten          | 92%    |

## Five most improved US states

| Fewer daily cases |        | Fewer new deaths |      | Fewer new hospitalizations |        | Most recoveries |        |
|-------------------|--------|------------------|------|----------------------------|--------|-----------------|--------|
| CT                | -1,720 | CT               | -153 | NY                         | -1,380 | VT              | +1,695 |
| NY                | -548   | WV               | -4   | OR                         | -3     | TX              | +780   |
| CH                | -490   | AL               | -3   | KS                         | -1     | TN              | +253   |
| MD                | -345   | ND               | -3   | ME                         | -1     | SD              | +115   |
| LA                | -264   | DC               | -2   | MN                         | -1     | UT              | +112   |



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

## Recommended reading

### [What Won't Cure Corona: Lawsuits](#)

Evan G. Greenberg  
*Wall Street Journal*  
April 21, 2020

### [Crisis May Add \\$6 Trillion to Federal Debt](#)

Chris Edwards  
*Cato At Liberty*  
April 21, 2020

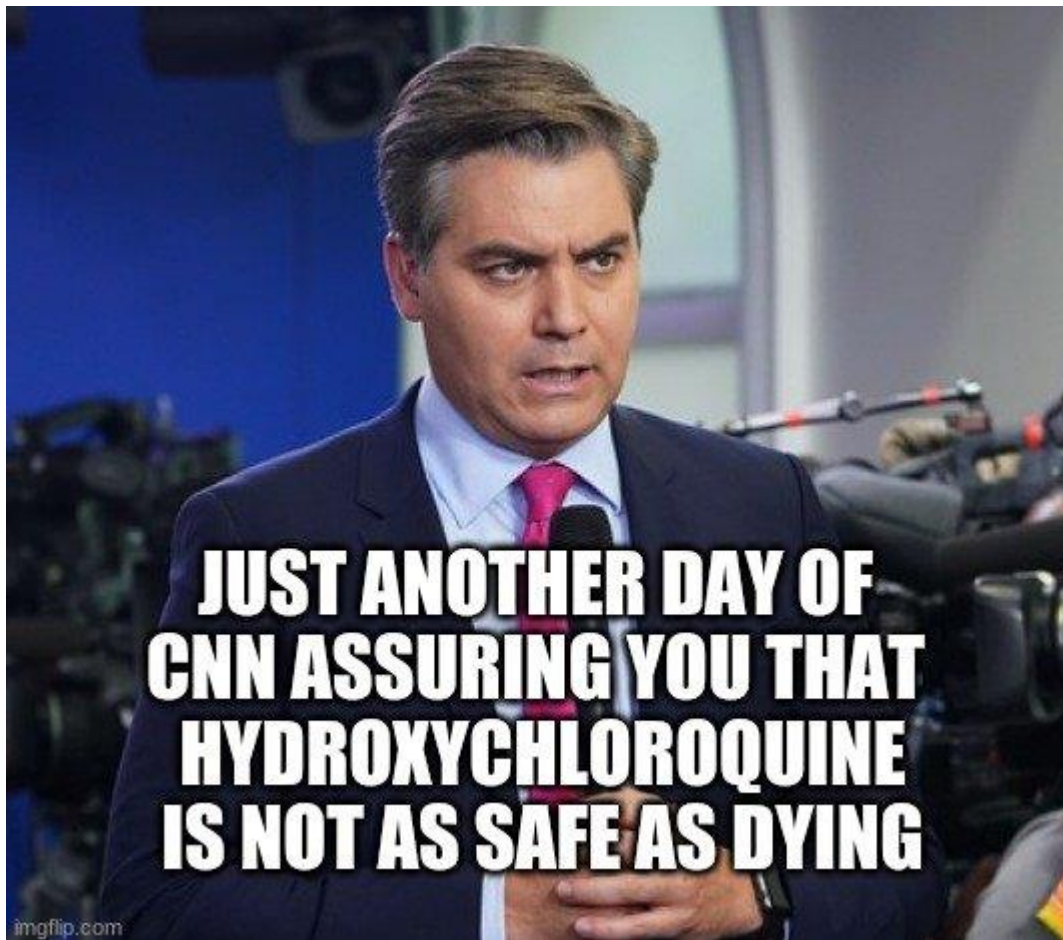
### [Coronavirus Death in California Came Weeks Before First Known U.S. Death](#)

Thomas Fuller and Mike Baker  
*New York Times*  
April 22, 2020

### [Missouri files suit against China for 'enormous' consequences of coronavirus 'deceit'](#)

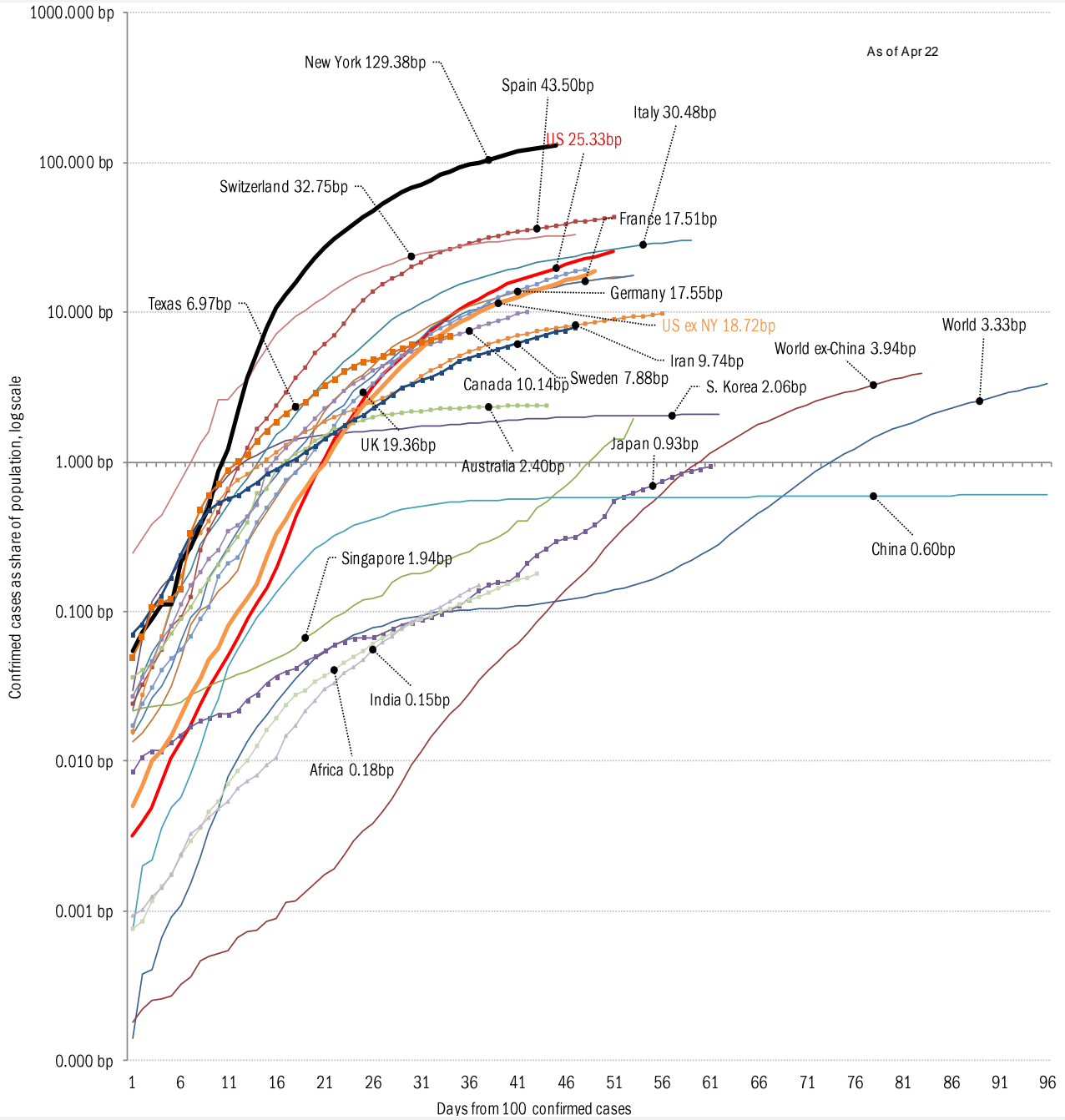
Tyler Olson  
*Fox News*  
April 21, 2020

## Meme of the day



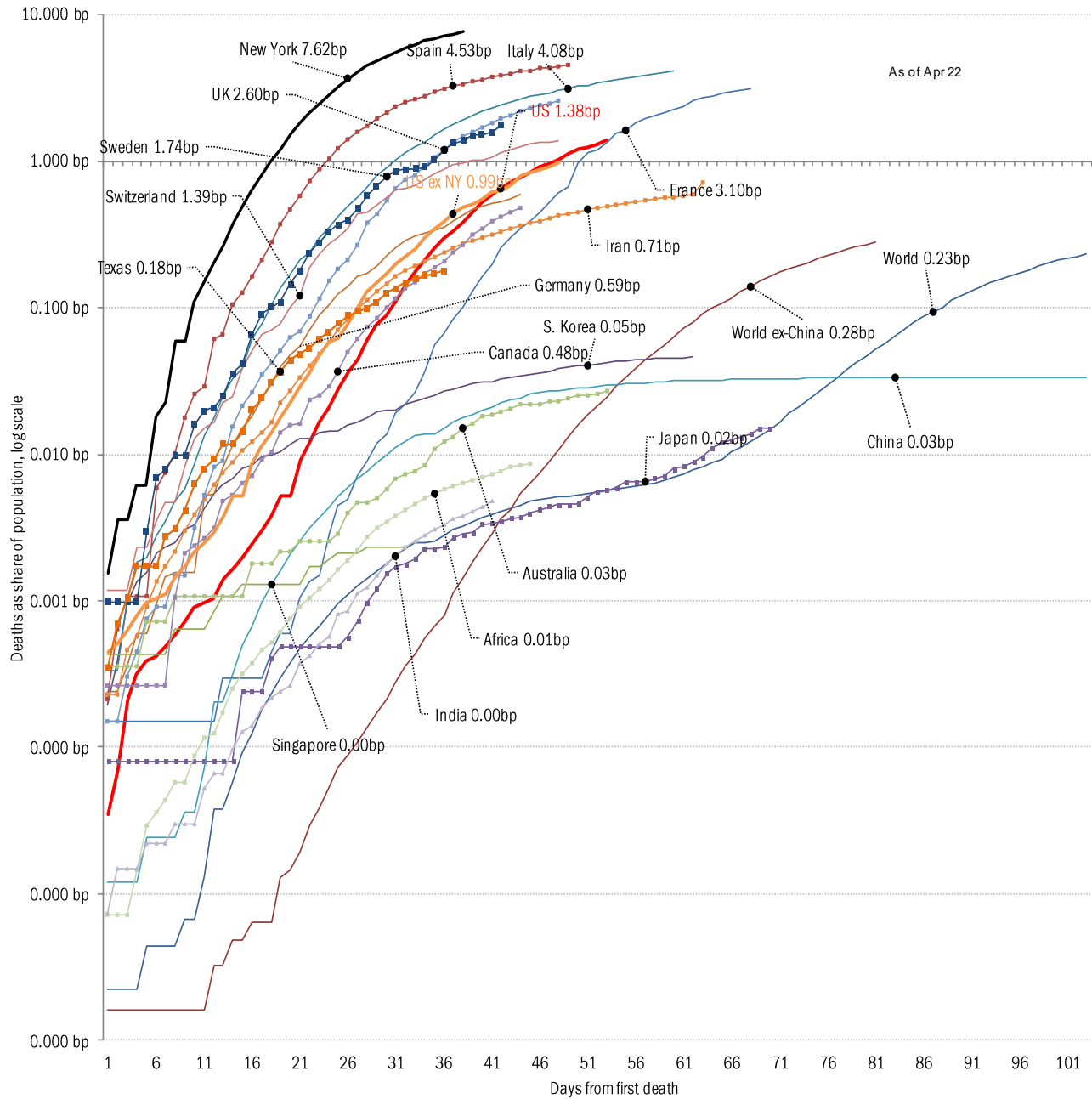
Source: Our beloved clients, and [Power Line blog "The Week in Cartoons"](#)

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*



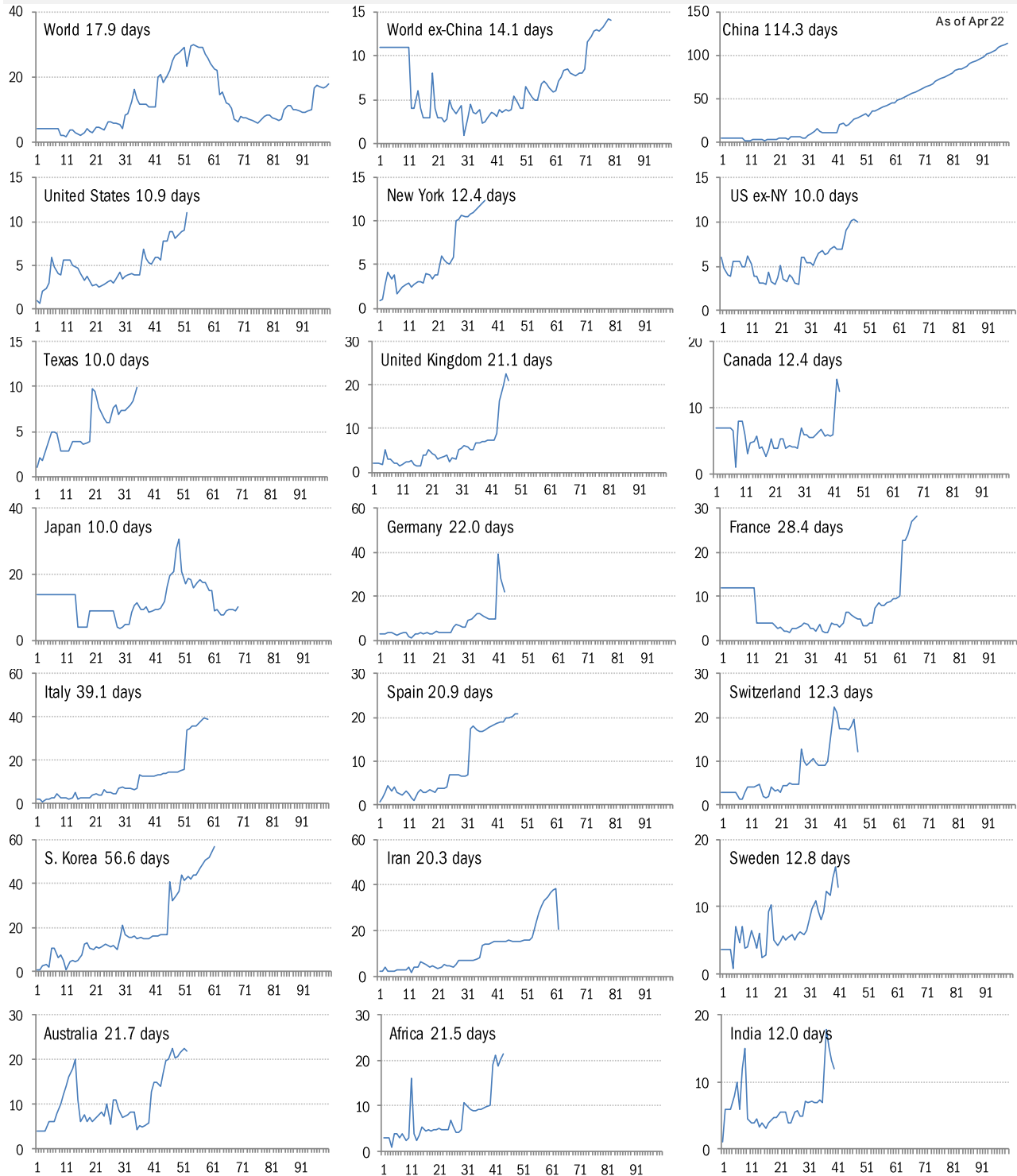
Source: [ECDC](#), TrendMacro calculations

# Our most reliable evidence of slowing the Moore's law of Covid-19

*Vertical: number of days it takes to double deaths Horizontal: days from first death*

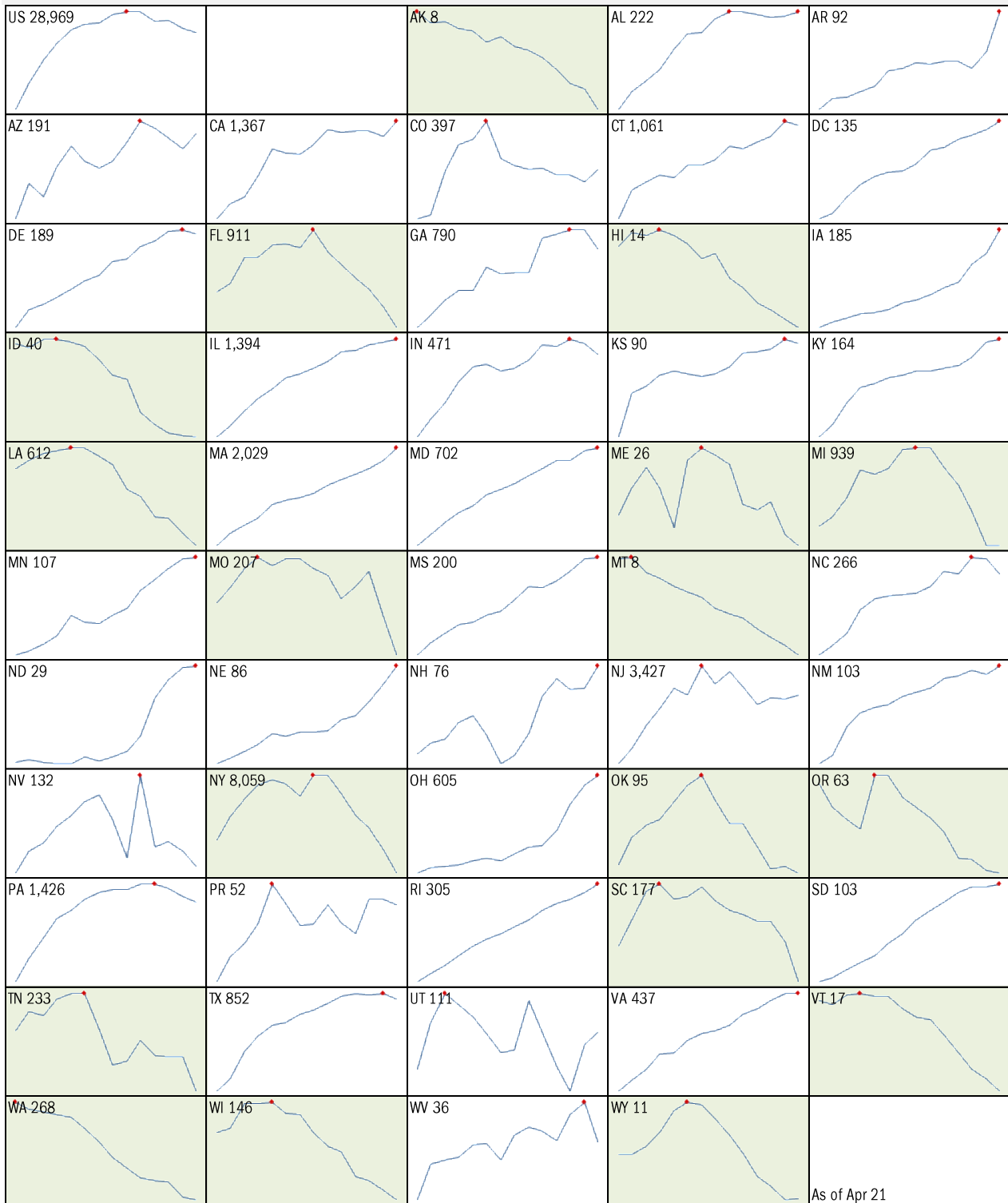
Progress means seeing the line move up and to the right. . .

*Extrapolated between actual doubling points. The most anomalous extrapolations are smoothed.*



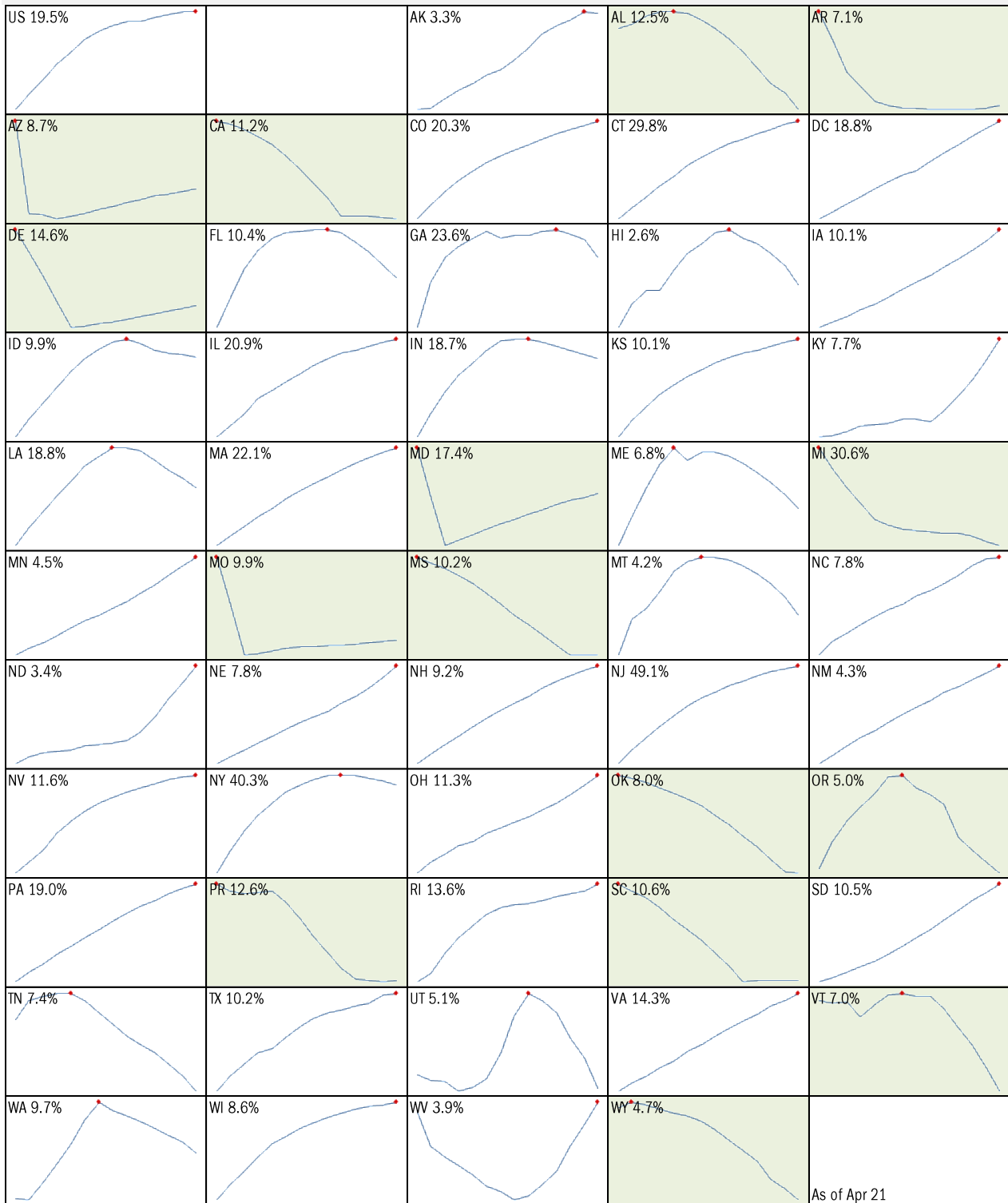
Source: [ECDC](#), TrendMacro calculations

Requirement to [Open Up America Again](#): ■ 14-day "downward trajectory" in new cases  
 14-day moving average, last 14 days      Most recent value displayed



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



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

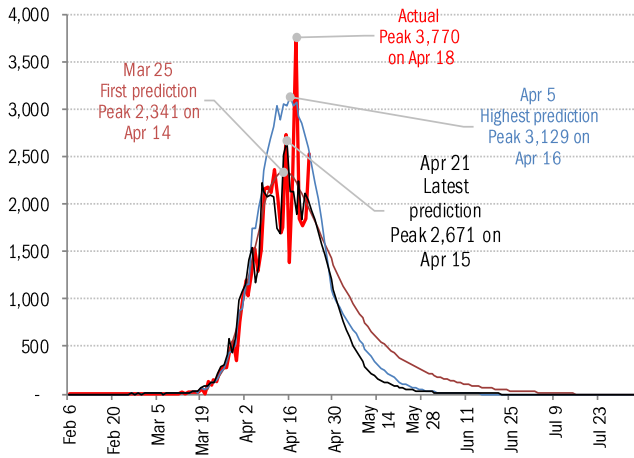


# Reality-checking the models: actual fatalities versus [IHME predictions](#)

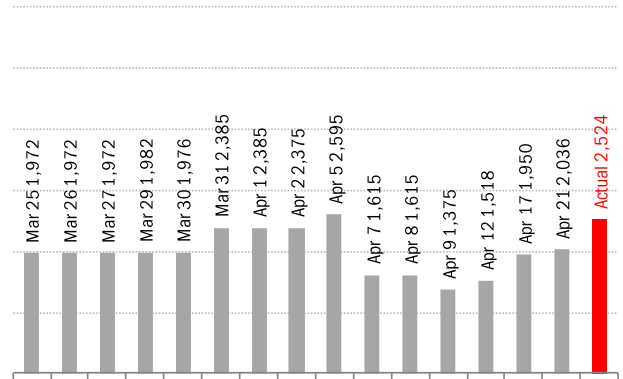
## New daily fatalities

As of Apr 22

Actual versus first, highest and latest model mean predictions

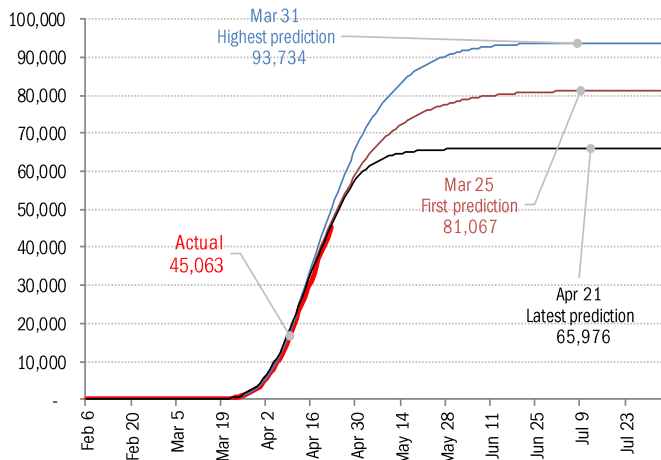


For this day, versus all model mean predictions

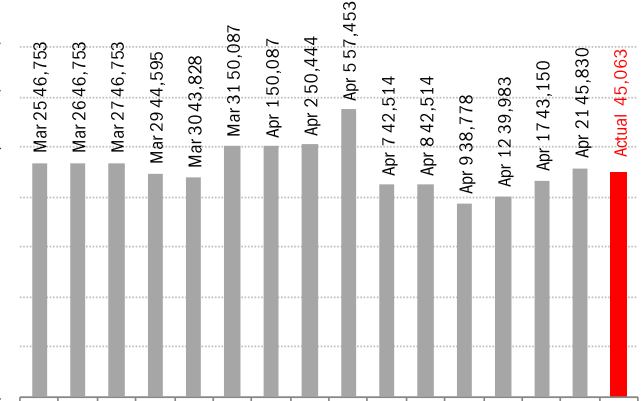


## Cumulative fatalities

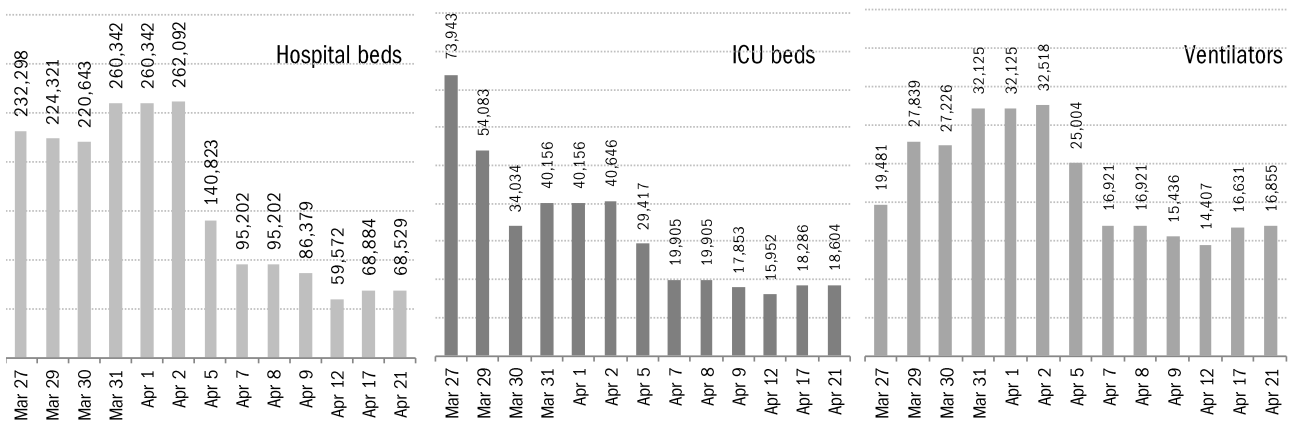
Actual versus first, highest and latest model mean predictions



For this day, versus all model mean predictions

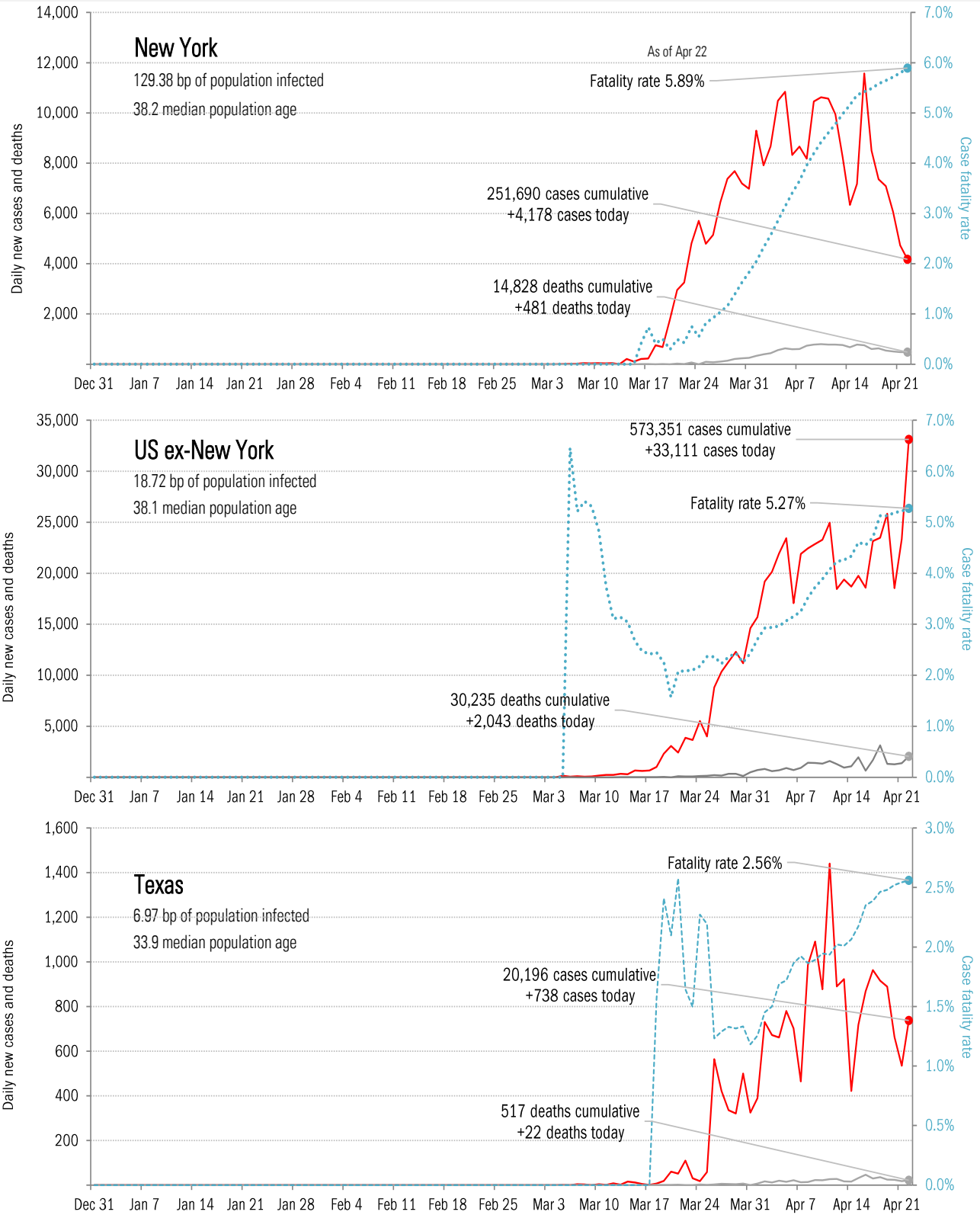


## Healthcare system stress, peak estimated at each model revision



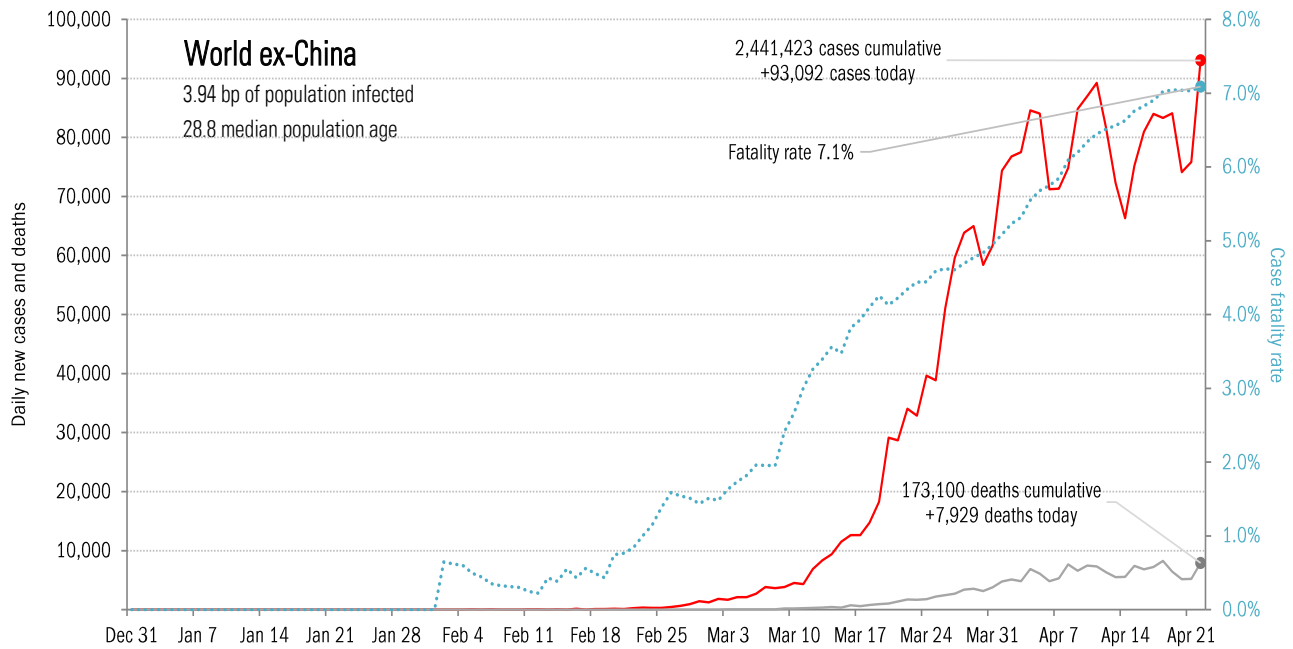
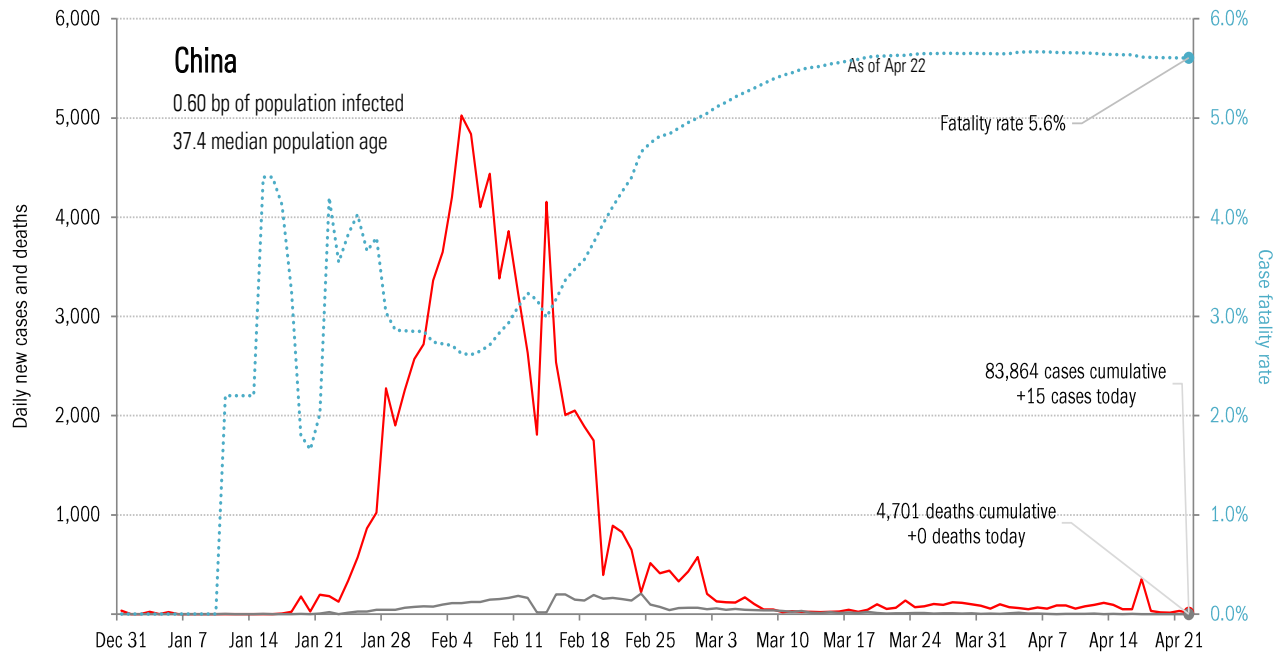
Source: [ECDC](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



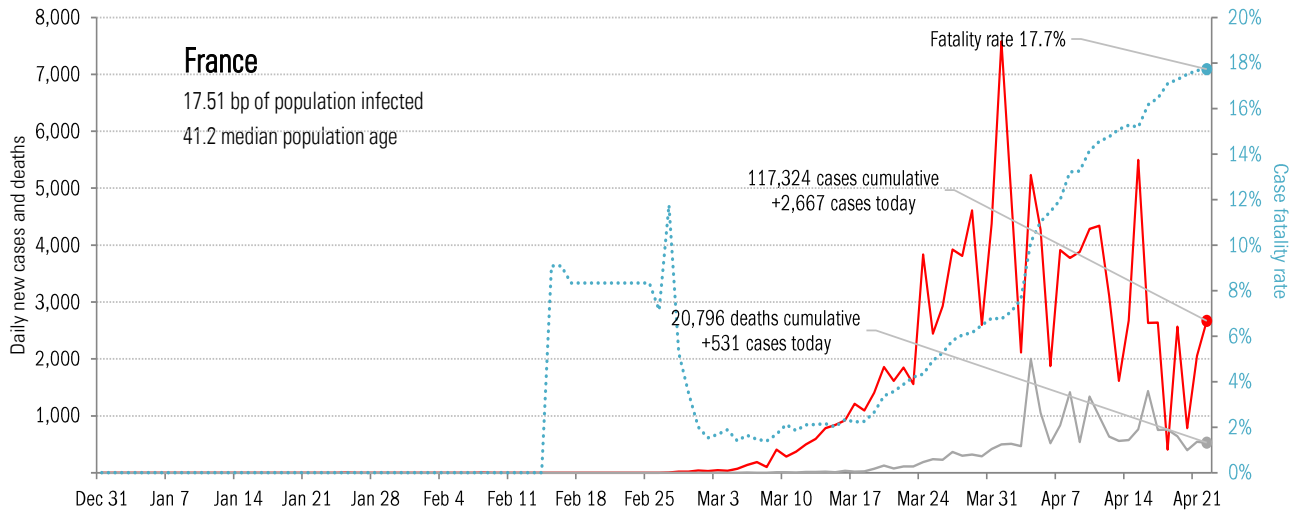
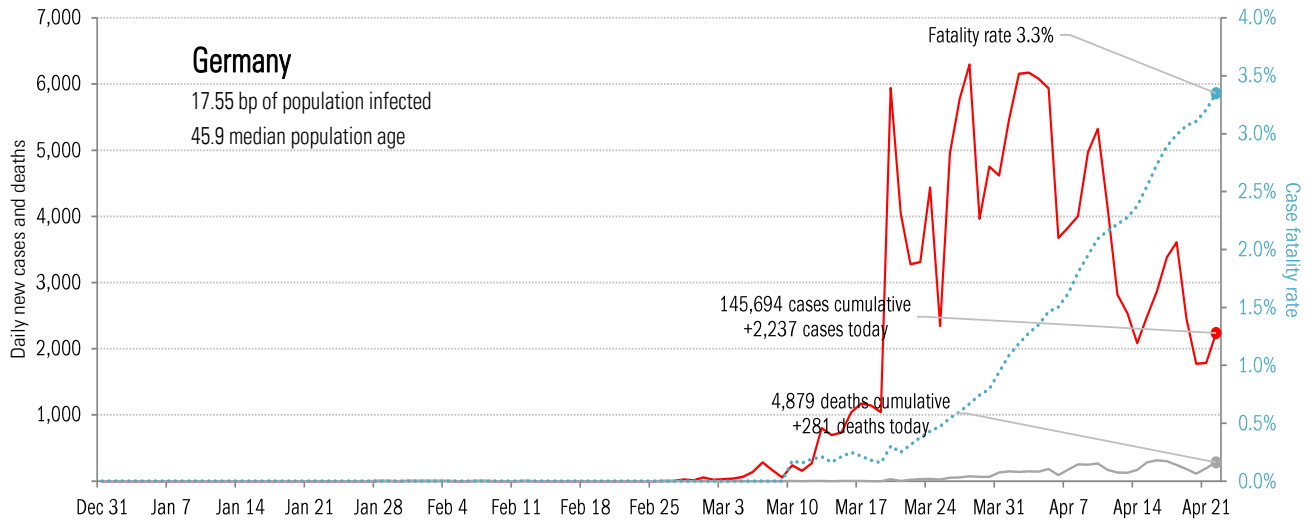
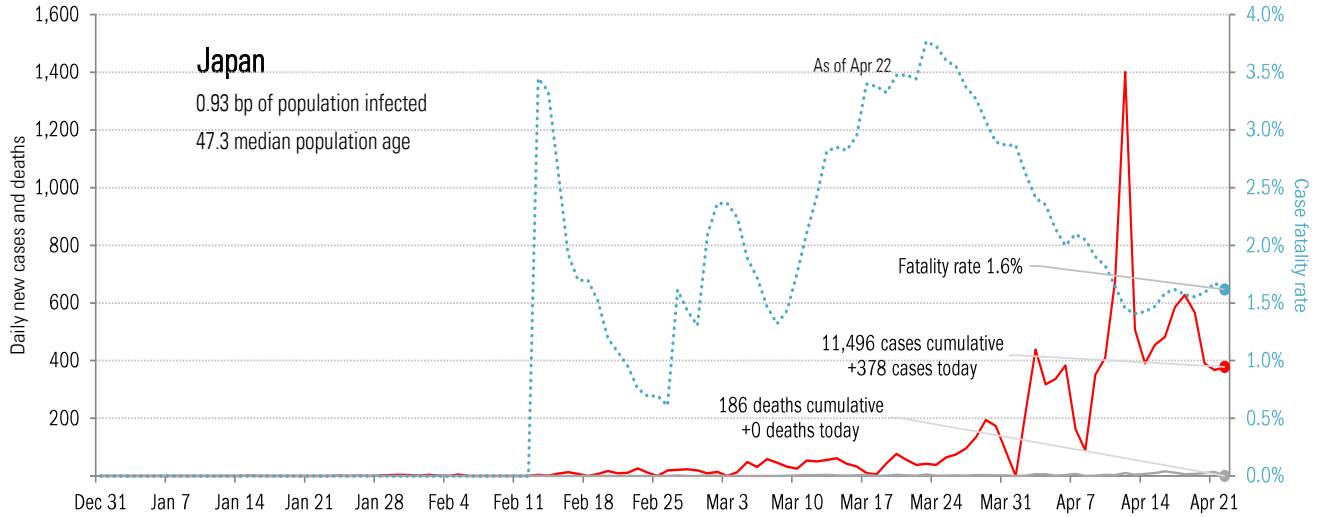
Source: [ECDC](#), TrendMacro calculations

# Patient zero... and then everyone else



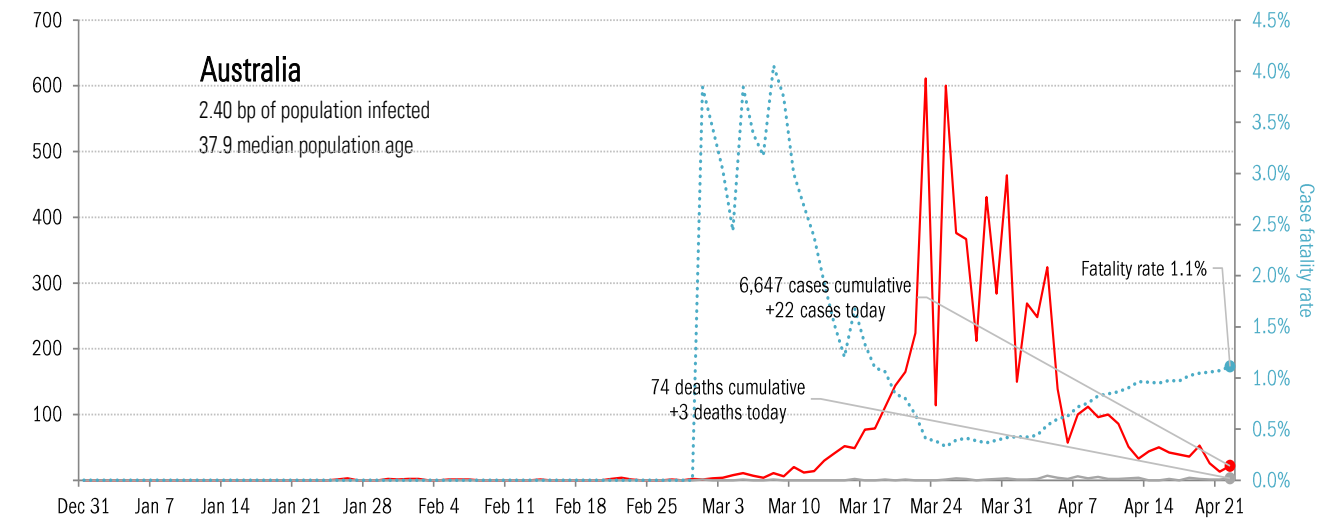
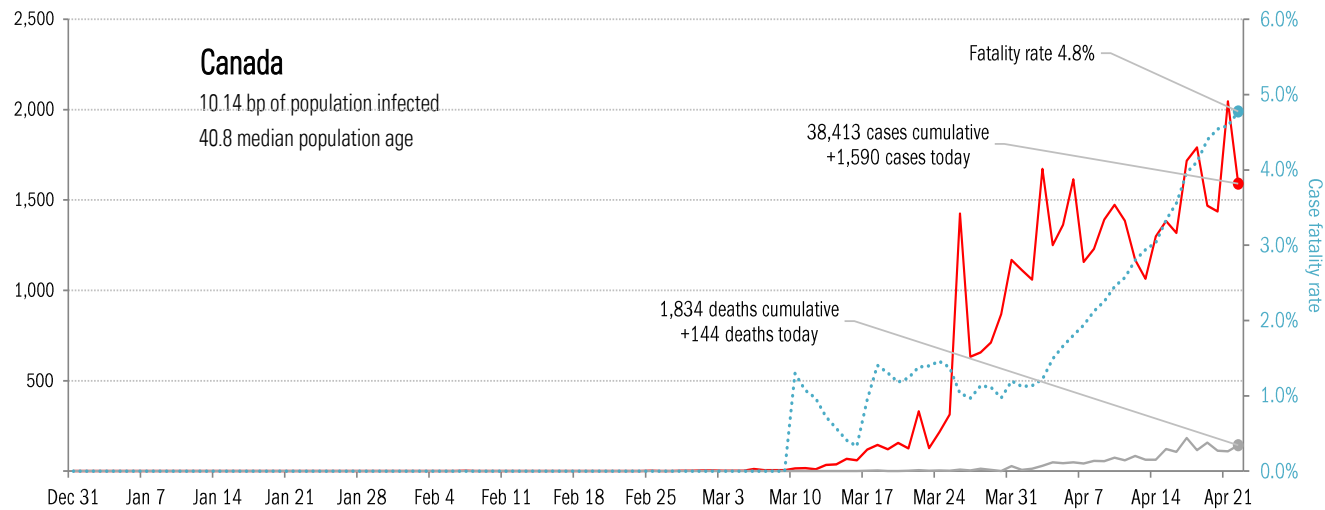
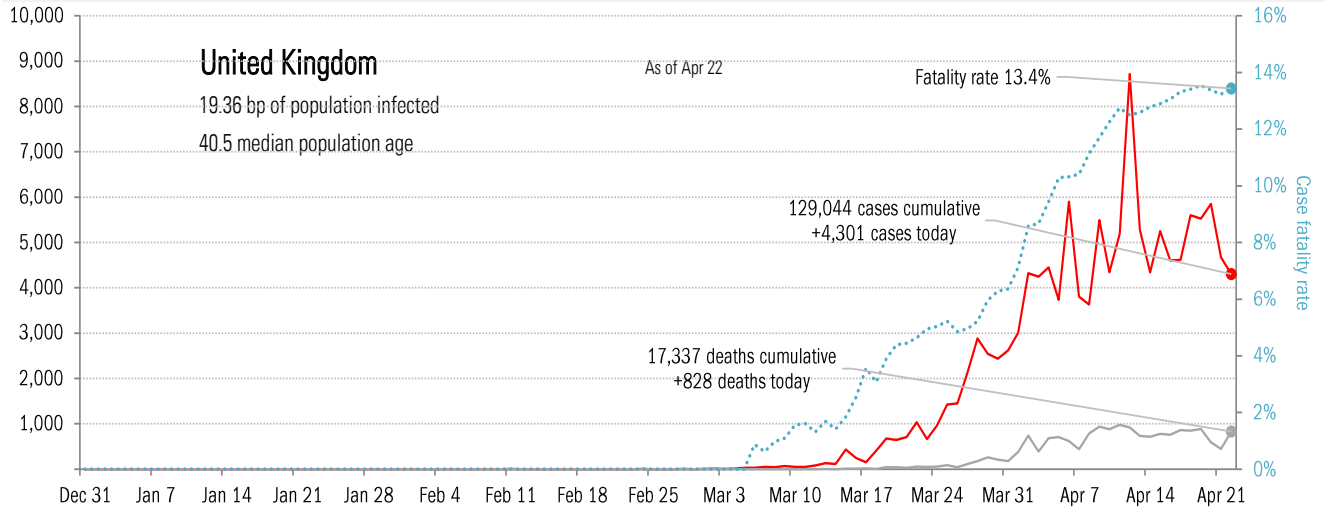
Source: [ECDC](#), TrendMacro calculations

# Impact in the largest economies



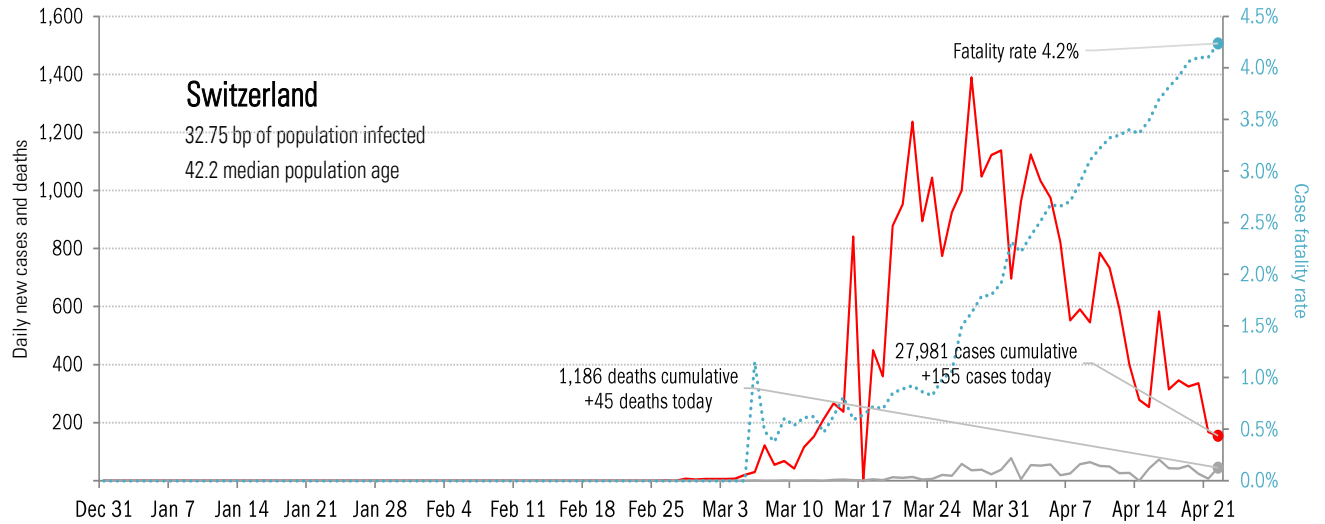
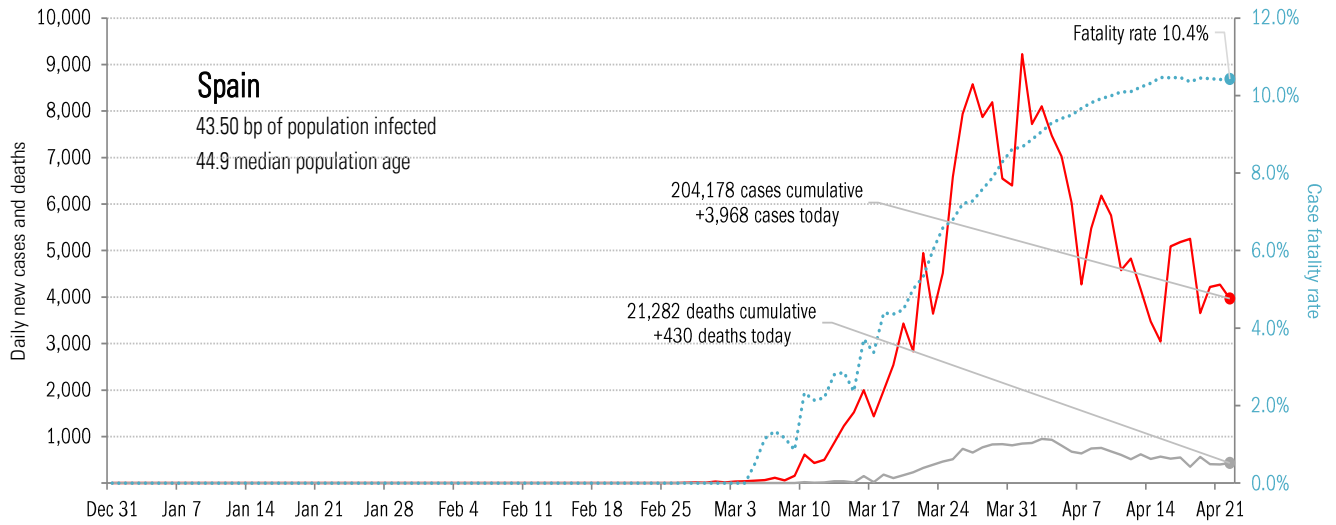
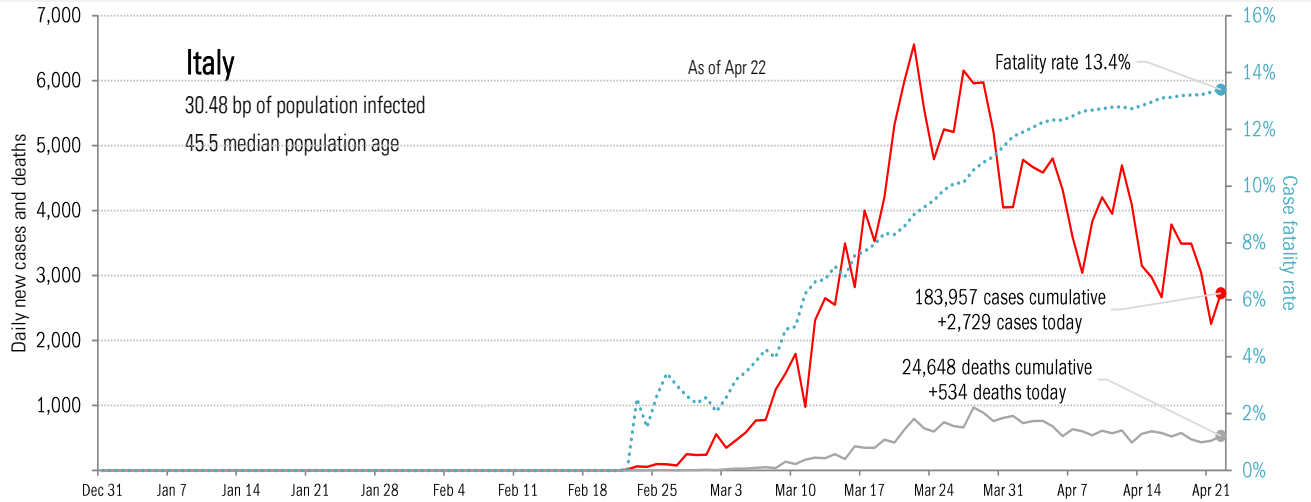
Source: [ECDC](#), TrendMacro calculations

# Impact in The Anglosphere



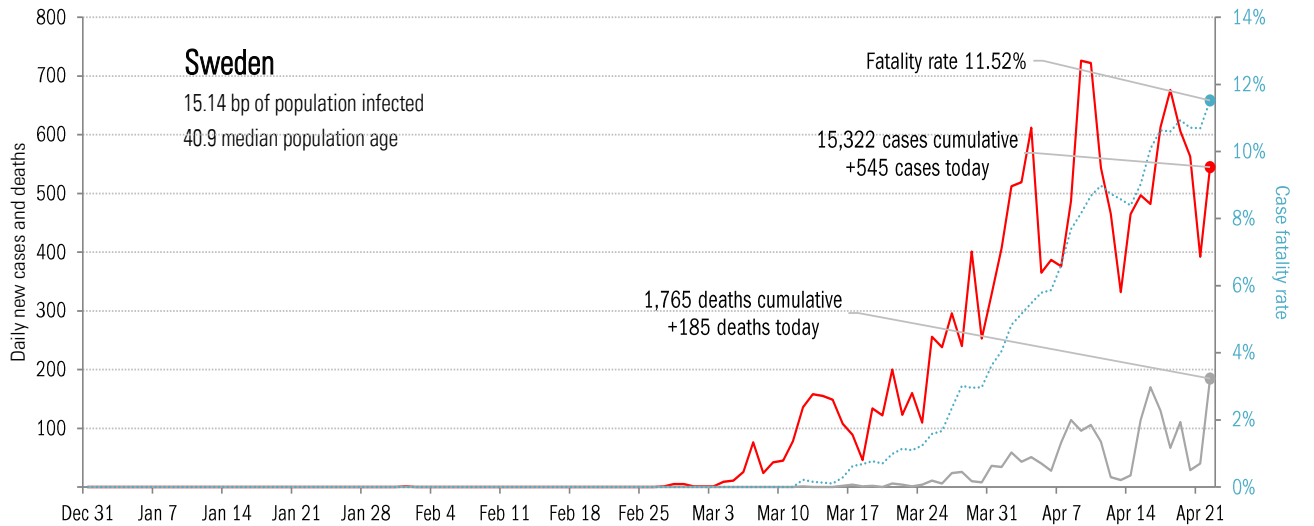
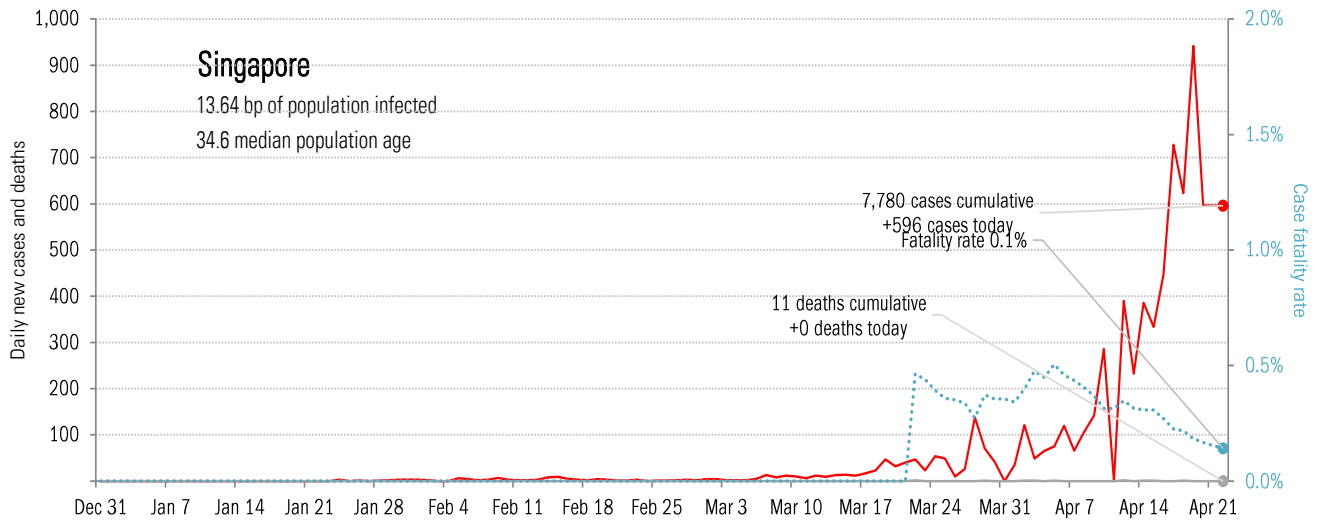
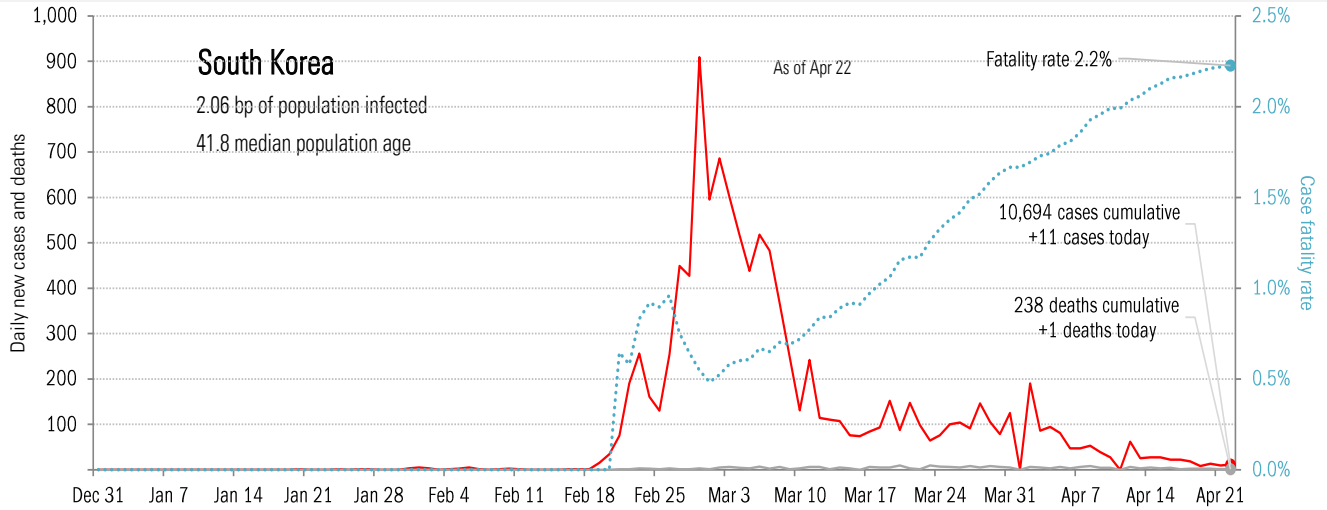
Source: [ECDC](#), TrendMacro calculations

# Impact in continental Europe



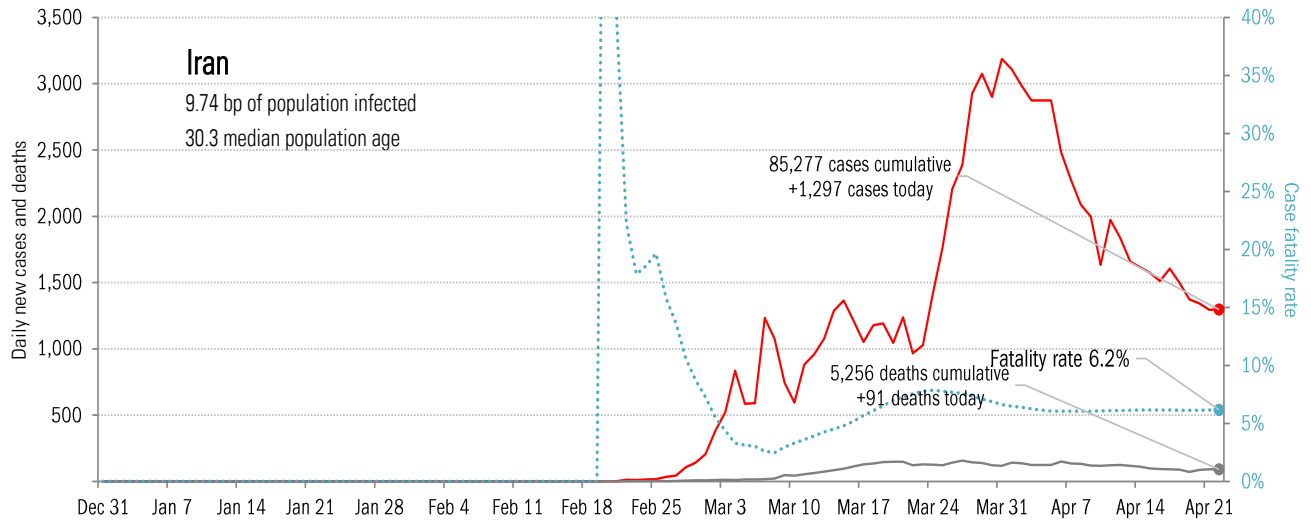
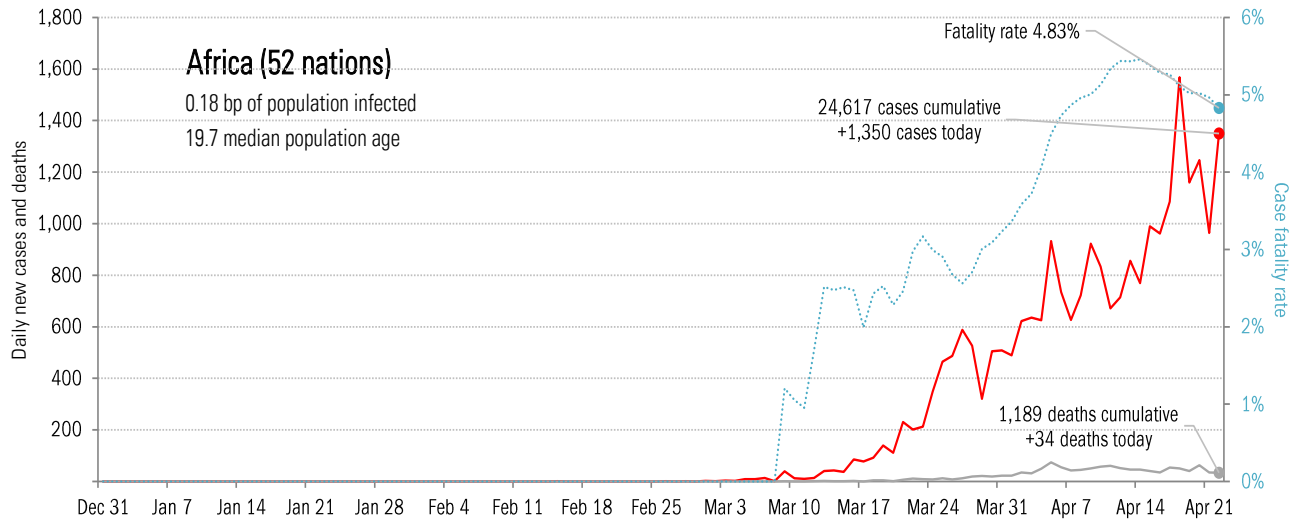
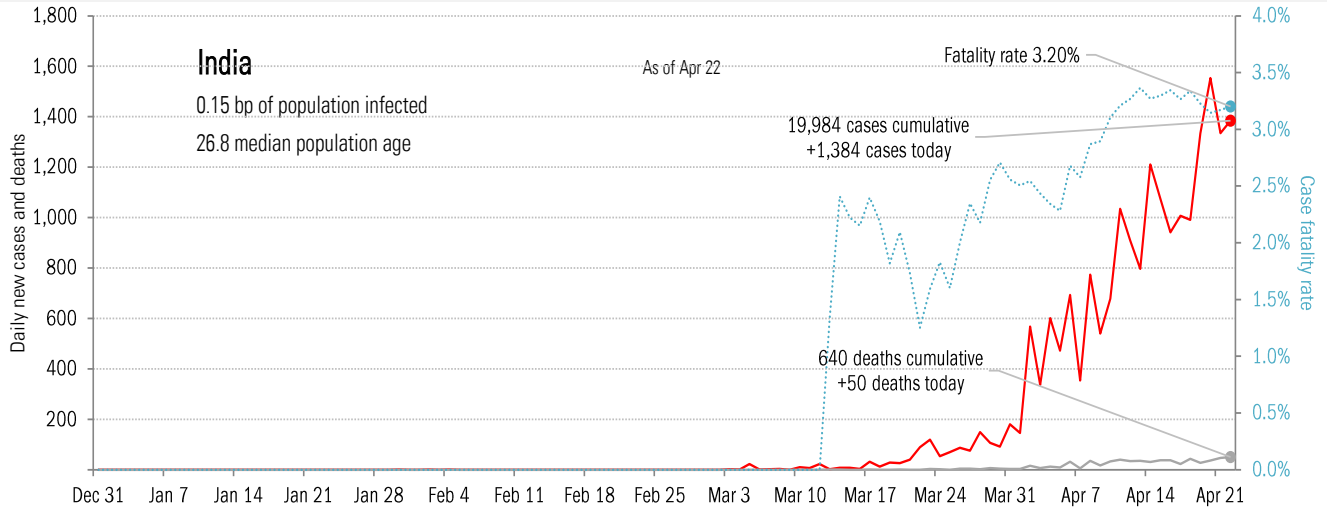
Source: [ECDC](#), TrendMacro calculations

# Impact in other hot-spots



Source: [ECDC](#), TrendMacro calculations

# Impact in the fragile emerging world



Source: [ECDC](#), TrendMacro calculations