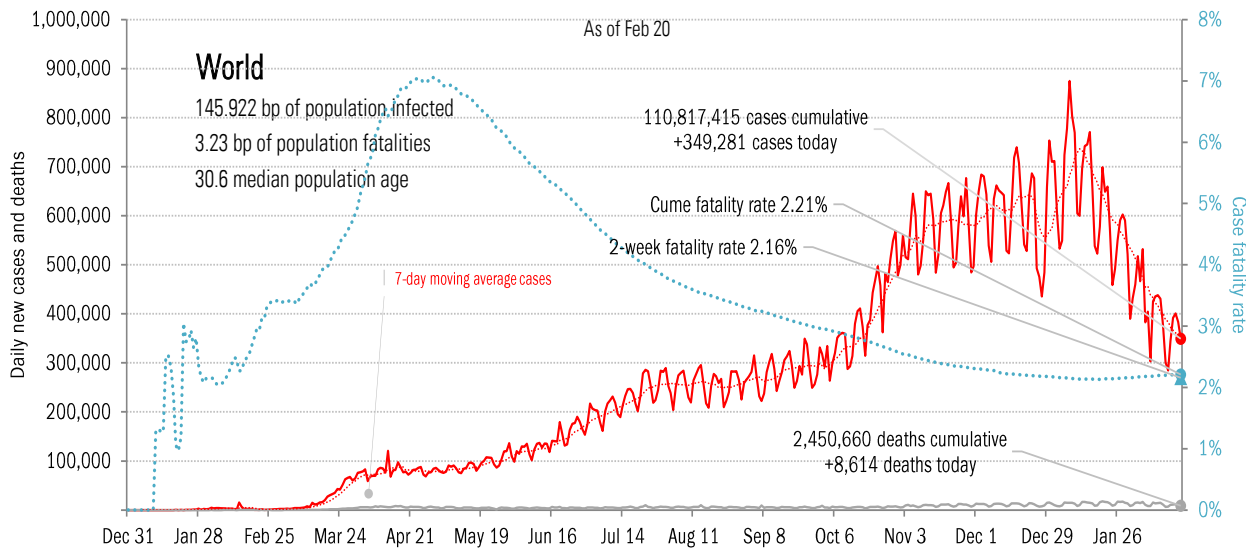
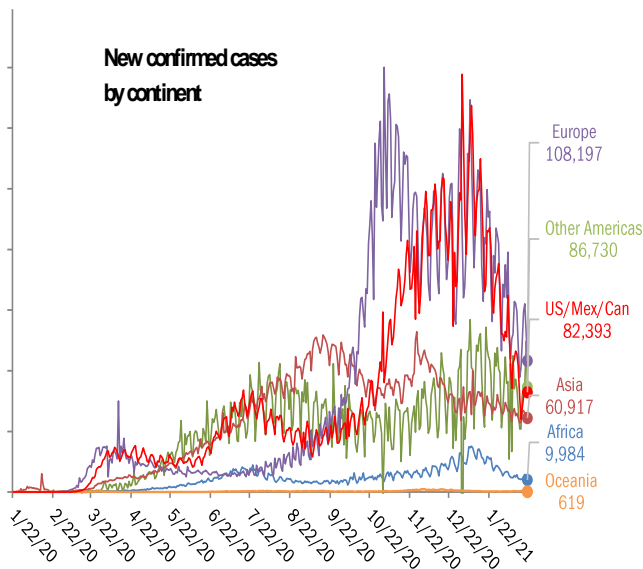


## Data Insights: Covid-2019 Monitor

Sunday, February 21, 2021

### The global scorecard

| The worst ten countries |          |                |        |
|-------------------------|----------|----------------|--------|
| New cases               |          | New Deaths     |        |
| United States           | +71,951  | United States  | +2,074 |
| Brazil                  | +54,940  | Brazil         | +1,240 |
| Italy                   | +14,914  | Mexico         | +832   |
| India                   | +14,264  | Russia         | +469   |
| Russia                  | +12,775  | United Kingdom | +446   |
| Czechia                 | +11,364  | Poland         | +254   |
| United Kingdom          | +10,453  | Italy          | +251   |
| Poland                  | +8,509   | Philippines    | +239   |
| Indonesia               | +8,054   | Peru           | +201   |
| Iran                    | +7,922   | Czechia        | +184   |
| <b>+215,146</b>         |          | <b>+6,190</b>  |        |
| World                   | +349,281 | World          | +8,614 |
| Topten                  | 62%      | Topten         | 72%    |



Source: [Johns Hopkins](#), [Covid Tracking Project](#), 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

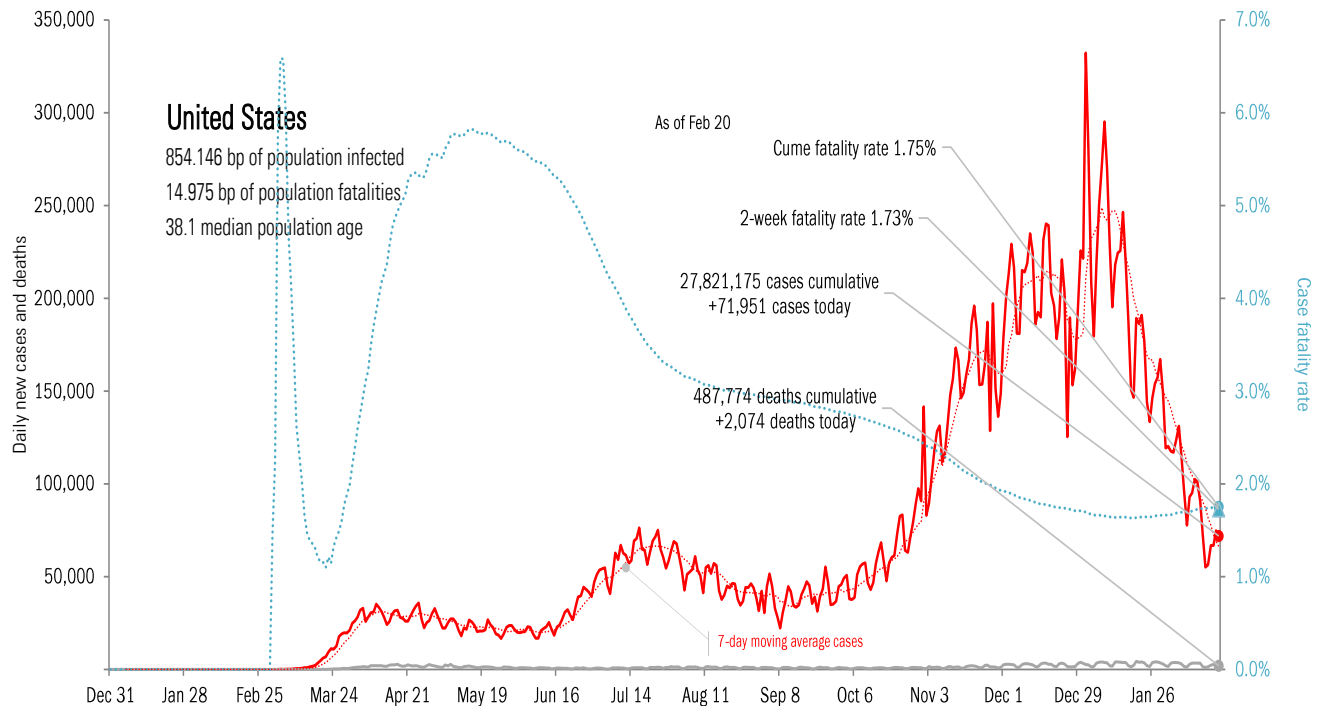
## The ten worst US states

| New cases  |         |  | New Deaths |      |  | New in hospital |     |  | Curre cases |            |  | Curre deaths |        |  | Curre in hospital |        |  | Hospital use |      | ICU use |     |
|------------|---------|--|------------|------|--|-----------------|-----|--|-------------|------------|--|--------------|--------|--|-------------------|--------|--|--------------|------|---------|-----|
| NY         | +7,692  |  | CA         | +481 |  | MD              | +33 |  | CA          | 3,435,186  |  | CA           | 48,825 |  | NY                | 89,995 |  | RI           | 100% | GA      | 89% |
| FL         | +7,129  |  | TX         | +227 |  | TN              | +28 |  | TX          | 2,583,617  |  | TX           | 41,213 |  | FL                | 78,840 |  | GA           | 81%  | DC      | 87% |
| CA         | +6,668  |  | GA         | +132 |  | WA              | +8  |  | FL          | 1,829,773  |  | NY           | 37,776 |  | NJ                | 63,062 |  | MA           | 81%  | AL      | 84% |
| TX         | +6,486  |  | FL         | +125 |  | CR              | +7  |  | NY          | 1,572,175  |  | FL           | 30,339 |  | AZ                | 56,872 |  | SC           | 80%  | TX      | 83% |
| NC         | +3,446  |  | NY         | +101 |  | DE              | +5  |  | IL          | 1,172,824  |  | PA           | 23,570 |  | GA                | 54,647 |  | MD           | 80%  | FL      | 82% |
| SC         | +3,340  |  | VA         | +99  |  | SD              | +4  |  | GA          | 983,747    |  | NJ           | 22,834 |  | CH                | 49,317 |  | FL           | 80%  | DE      | 81% |
| GA         | +3,336  |  | PA         | +90  |  | MO              | +3  |  | CH          | 952,306    |  | IL           | 22,426 |  | AL                | 44,767 |  | CT           | 78%  | OK      | 80% |
| NJ         | +2,876  |  | NC         | +76  |  | MS              | +3  |  | PA          | 911,591    |  | CH           | 16,749 |  | IN                | 42,378 |  | DC           | 78%  | CA      | 80% |
| PA         | +2,818  |  | MI         | +68  |  | ND              | +3  |  | NC          | 840,096    |  | GA           | 16,742 |  | MD                | 34,355 |  | PA           | 78%  | MS      | 79% |
| CH         | +2,611  |  | AZ         | +59  |  | FR              | +1  |  | AZ          | 806,163    |  | MI           | 16,342 |  | WI                | 25,716 |  | MO           | 77%  | MO      | 78% |
| +46,402    |         |  | +1,458     |      |  | +95             |     |  | 15,087,478  |            |  | 276,816      |        |  | 539,949           |        |  |              |      |         |     |
| All states | +71,951 |  | +2,074     |      |  | -1660           |     |  | All states  | 27,821,175 |  | 487,774      |        |  | 855,146           |        |  | All states   | 73%  | 72%     |     |
| Top ten    | 64%     |  | 70%        |      |  | -6%             |     |  | Top ten     | 54%        |  | 57%          |        |  | 63%               |        |  | Median       | 71%  | 70%     |     |

Some states not reporting

## Five most improved US states

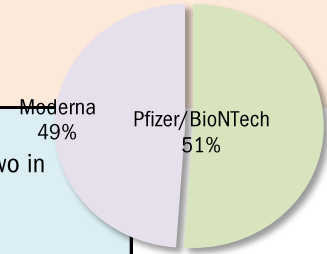
| Fewer daily cases |        | Fewer new deaths |         | Fewer new hospitalizations |      | Most recoveries |         |
|-------------------|--------|------------------|---------|----------------------------|------|-----------------|---------|
| KS                | -2,115 | CA               | -47,863 | TX                         | -105 | TX              | +22,672 |
| CT                | -1,198 | TX               | -40,759 | AR                         | -30  | PA              | +11,585 |
| NY                | -1,018 | NY               | -37,574 | ID                         | -22  | MI              | +11,089 |
| MI                | -650   | FL               | -30,089 | SC                         | -21  | CH              | +4,264  |
| KY                | -627   | PA               | -23,390 | FL                         | -16  | NM              | +2,476  |



Source: [Covid Tracking Project](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US

| US overall  | Over last day     |
|---|-------------------|
| 74.98 million doses distributed                   | -3.17 million/day |
| 61.29 million doses administered                  | +1.70 million/day |
| 42.81 million persons with one shot               | +0.83 million/day |
| 17.90 million persons with two shots              | +0.86 million/day |
| 6.40 million shots long-term care residents/staff | +0.11 million/day |
| <b>81.7% of distributed doses administered</b>    |                   |
| 12.8% of US pop 1 shot                            | 5.4% 2 shots      |
| 100% of LTC 1 shot                                | 44.3% 2 shots     |



At today's dosing pace,  
every American will have two in  
**349 days**  
by Feb 4, 2022

US will achieve herd immunity in  
**162 days**  
by Aug 1, 2021

| State                              | Best | Middle | Worst |
|------------------------------------|------|--------|-------|
| Doses distributed as % population  | Best |        |       |
| One shot received as % population  |      | Middle |       |
| Two shots received as % population |      |        | Worst |

| AK    |
|-------|
| 41.0% |
| 20.3% |
| 10.7% |

| ME    |
|-------|
| 25.0% |
| 14.2% |
| 5.6%  |

| WI    |
|-------|
| 22.4% |
| 14.5% |
| 5.7%  |

| VT    |
|-------|
| 25.6% |
| 14.2% |
| 6.9%  |

| NH    |
|-------|
| 24.2% |
| 12.6% |
| 5.8%  |

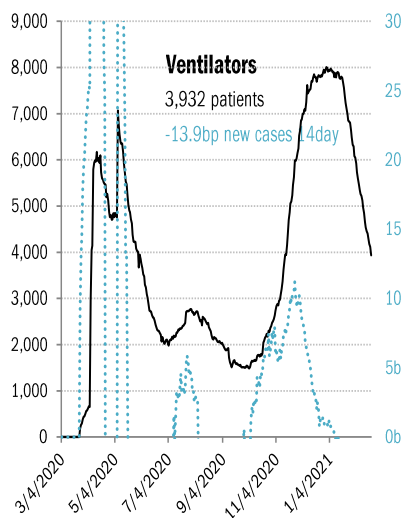
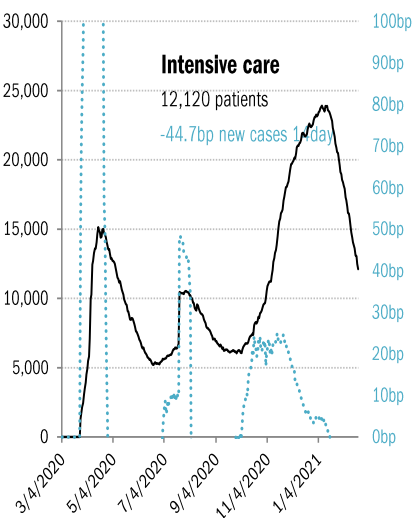
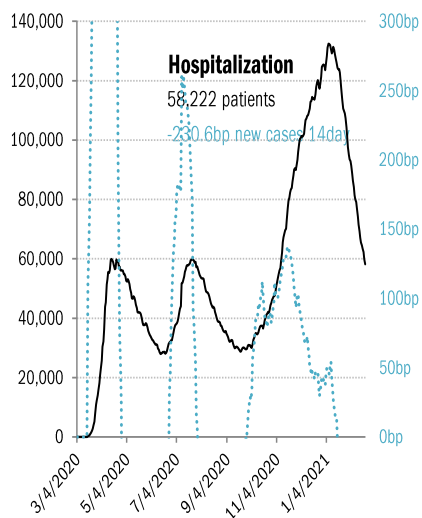
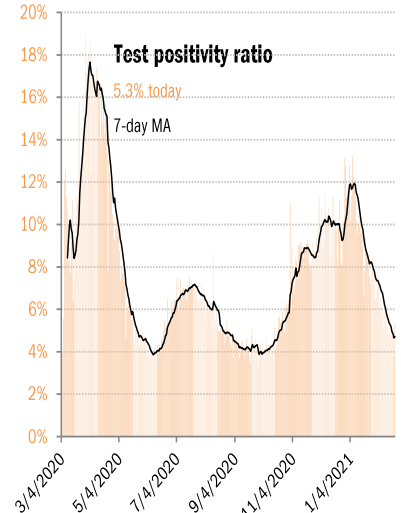
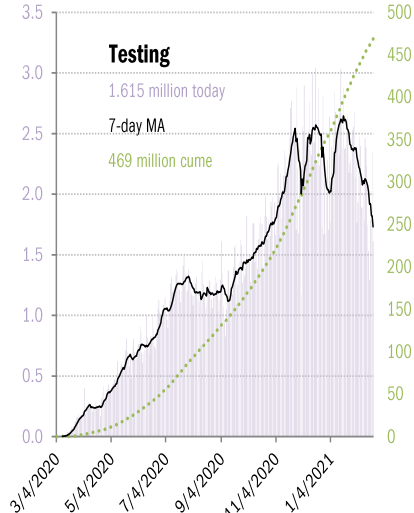
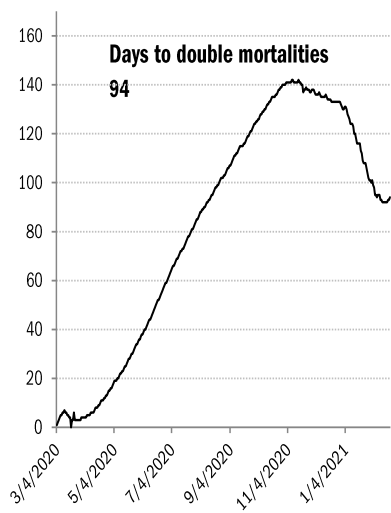
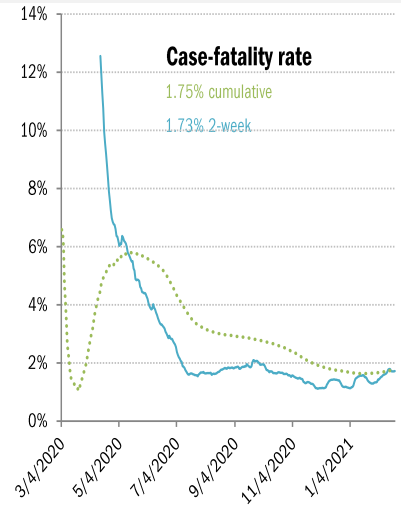
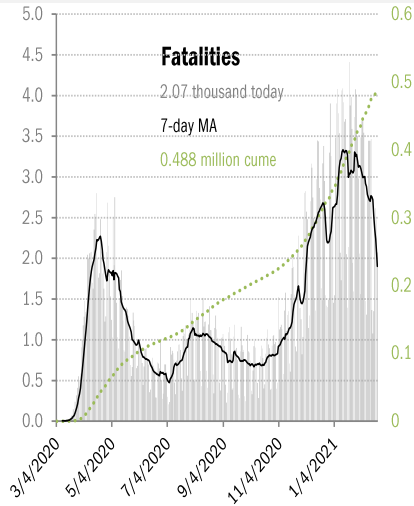
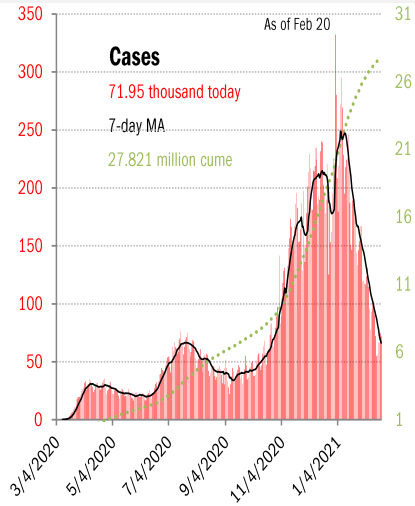
|                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <b>WA</b><br>21.3%<br>13.2%<br>5.1% | <b>ID</b><br>20.0%<br>12.1%<br>4.8% | <b>MT</b><br>24.3%<br>15.1%<br>6.2% | <b>ND</b><br>26.1%<br>16.4%<br>8.1% | <b>MN</b><br>22.8%<br>13.7%<br>5.7% | <b>IL</b><br>23.1%<br>13.4%<br>4.2% | <b>MI</b><br>22.8%<br>12.5%<br>6.2% | <b>NY</b><br>21.4%<br>12.0%<br>5.7% | <b>MA</b><br>25.2%<br>14.9%<br>5.0% |                                     |                                     |
| <b>OR</b><br>21.9%<br>12.8%<br>5.9% | <b>NV</b><br>21.0%<br>12.8%<br>5.1% | <b>WY</b><br>26.1%<br>15.4%<br>6.8% | <b>SD</b><br>30.2%<br>17.3%<br>8.3% | <b>IA</b><br>22.4%<br>13.6%<br>4.5% | <b>IN</b><br>22.1%<br>12.8%<br>5.5% | <b>OH</b><br>21.4%<br>12.5%<br>5.2% | <b>PA</b><br>23.4%<br>12.7%<br>4.7% | <b>NJ</b><br>20.4%<br>13.0%<br>5.5% | <b>CT</b><br>27.6%<br>16.0%<br>7.4% | <b>RI</b><br>23.2%<br>12.4%<br>5.6% |
| <b>CA</b><br>23.2%<br>13.4%<br>4.7% | <b>UT</b><br>20.5%<br>11.1%<br>4.6% | <b>CO</b><br>23.4%<br>13.9%<br>6.3% | <b>NE</b><br>25.0%<br>12.6%<br>5.9% | <b>MO</b><br>20.8%<br>11.8%<br>5.0% | <b>KY</b><br>22.3%<br>12.5%<br>5.3% | <b>WV</b><br>26.9%<br>16.1%<br>9.5% | <b>VA</b><br>22.8%<br>13.6%<br>5.6% | <b>MD</b><br>24.0%<br>12.1%<br>5.3% | <b>DE</b><br>21.0%<br>13.7%<br>4.8% |                                     |
| <b>AZ</b><br>23.2%<br>14.6%<br>4.9% | <b>NM</b><br>28.9%<br>18.4%<br>8.9% | <b>KS</b><br>22.2%<br>11.9%<br>4.8% | <b>AR</b><br>22.9%<br>12.1%<br>5.1% | <b>TN</b><br>21.6%<br>11.0%<br>5.0% | <b>NC</b><br>22.5%<br>12.9%<br>6.2% | <b>SC</b><br>20.7%<br>12.2%<br>4.6% | <b>DC</b><br>31.9%<br>15.3%<br>7.3% |                                     |                                     |                                     |
| <b>OK</b><br>26.8%<br>14.5%<br>6.3% | <b>LA</b><br>21.8%<br>12.5%<br>6.3% | <b>MS</b><br>21.9%<br>11.6%<br>4.6% | <b>AL</b><br>22.0%<br>11.4%<br>4.4% | <b>GA</b><br>21.6%<br>11.1%<br>5.4% |                                     |                                     |                                     |                                     |                                     |                                     |
| <b>HI</b><br>28.1%<br>15.2%<br>6.8% | <b>TX</b><br>19.3%<br>11.2%<br>4.7% | <b>FL</b><br>23.8%<br>13.0%<br>6.4% | <b>PR</b><br>25.3%<br>9.8%<br>4.6%  |                                     |                                     |                                     |                                     |                                     |                                     |                                     |

As of Feb 20

Source: [CDC](#), [CDC](#), TrendMacro calculations

# US deep-dive

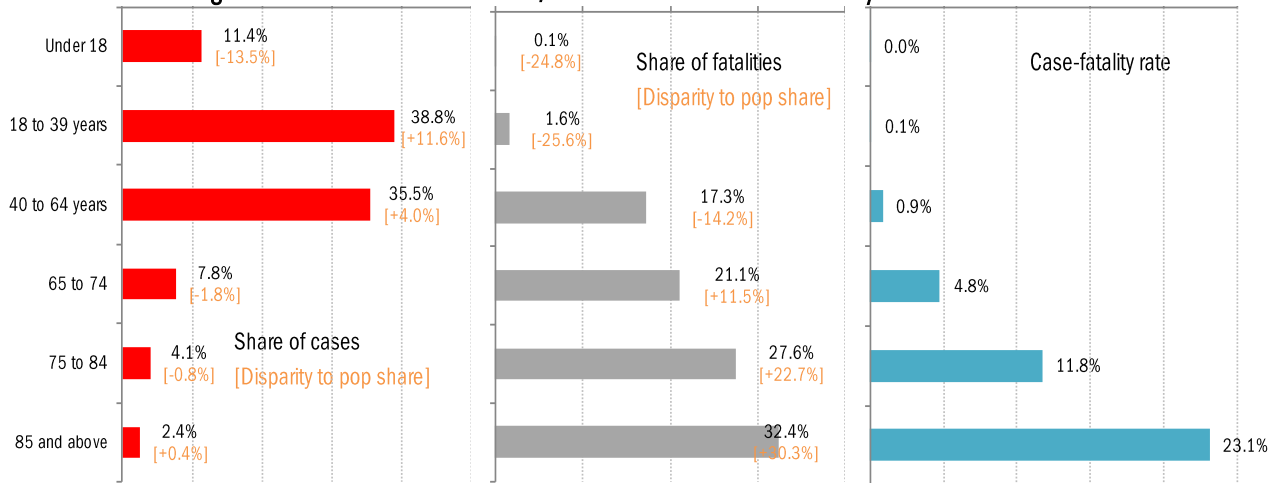
National and state-by-state data do not line up because of different sources



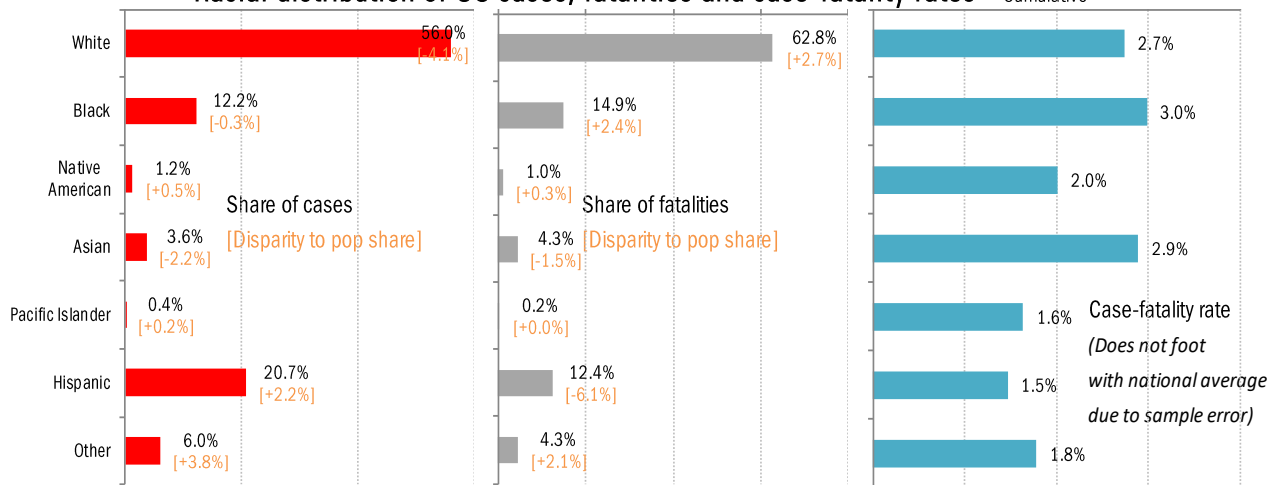
Source: [Covid Tracking Project](https://covidtracking.com), TrendMacro calculations

# US deep-dive on the demographics of age, race and health

## Age distribution of US cases, fatalities and case-fatality rates

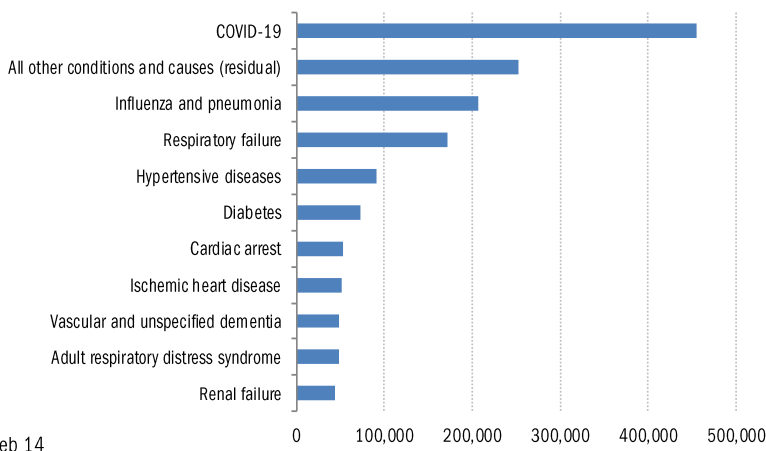


## Racial distribution of US cases, fatalities and case-fatality rates



## Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Feb 14

For 6% of the deaths, COVID-19 was the only cause mentioned. For deaths with conditions or causes in addition to COVID-19, on average, there were 3.8 additional conditions or causes per death.

Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

## Recommended reading

[People Who Have Had Covid Should Get Single Vaccine Dose, Studies Suggest](#)

Apoorva Mandavilli  
*New York Times*  
February 19, 2021

[Israel Secretly Agrees to Fund Vaccines for Syria as Part of Prisoner Swap](#)

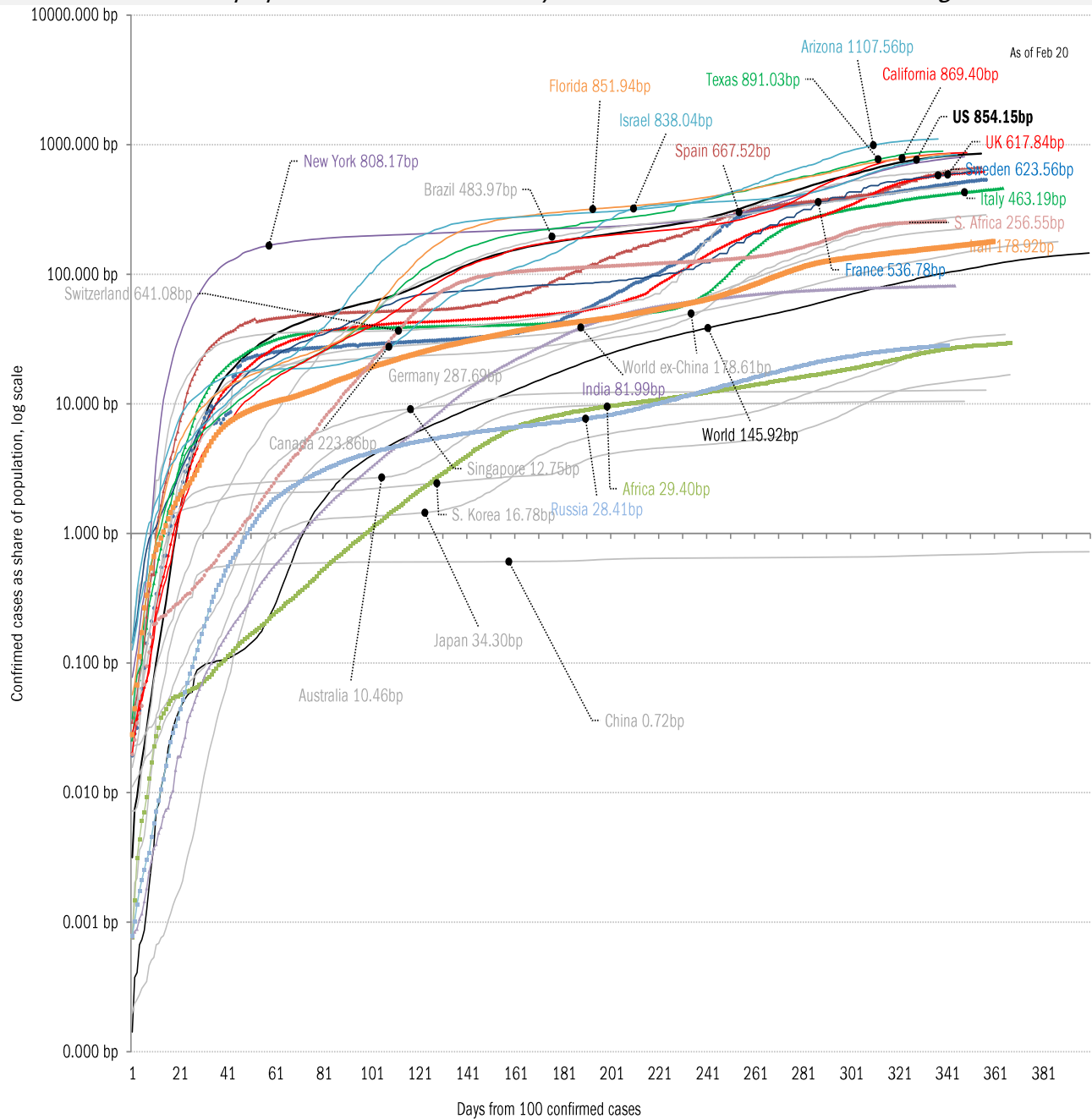
Patrick Kingsley, Ronen Bergman and Andrew E. Kramer  
*New York Times*  
February 20, 2021

## Meme of day



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

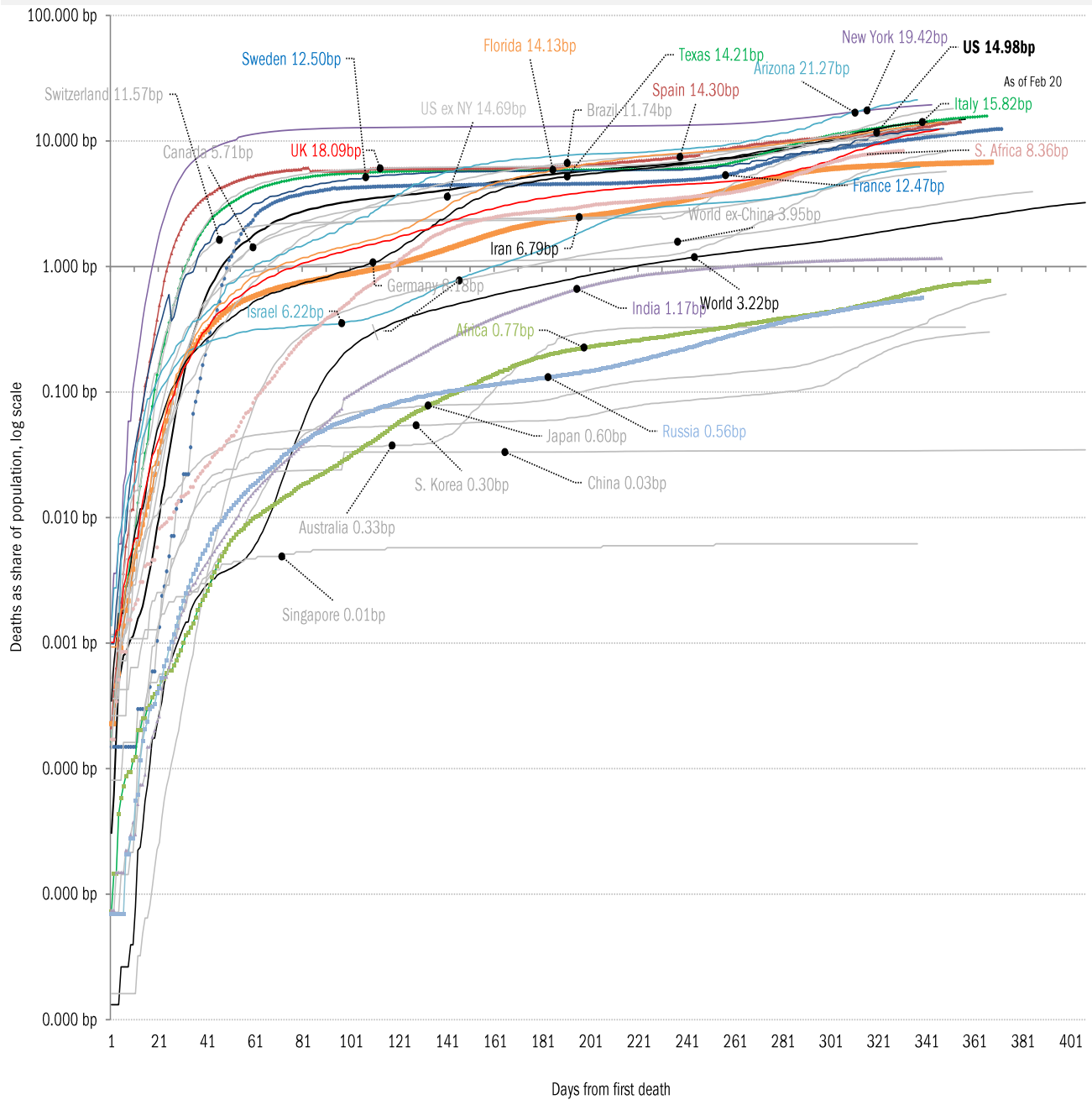
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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

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

## Share of deceased population from day of first fatality



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



# "Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

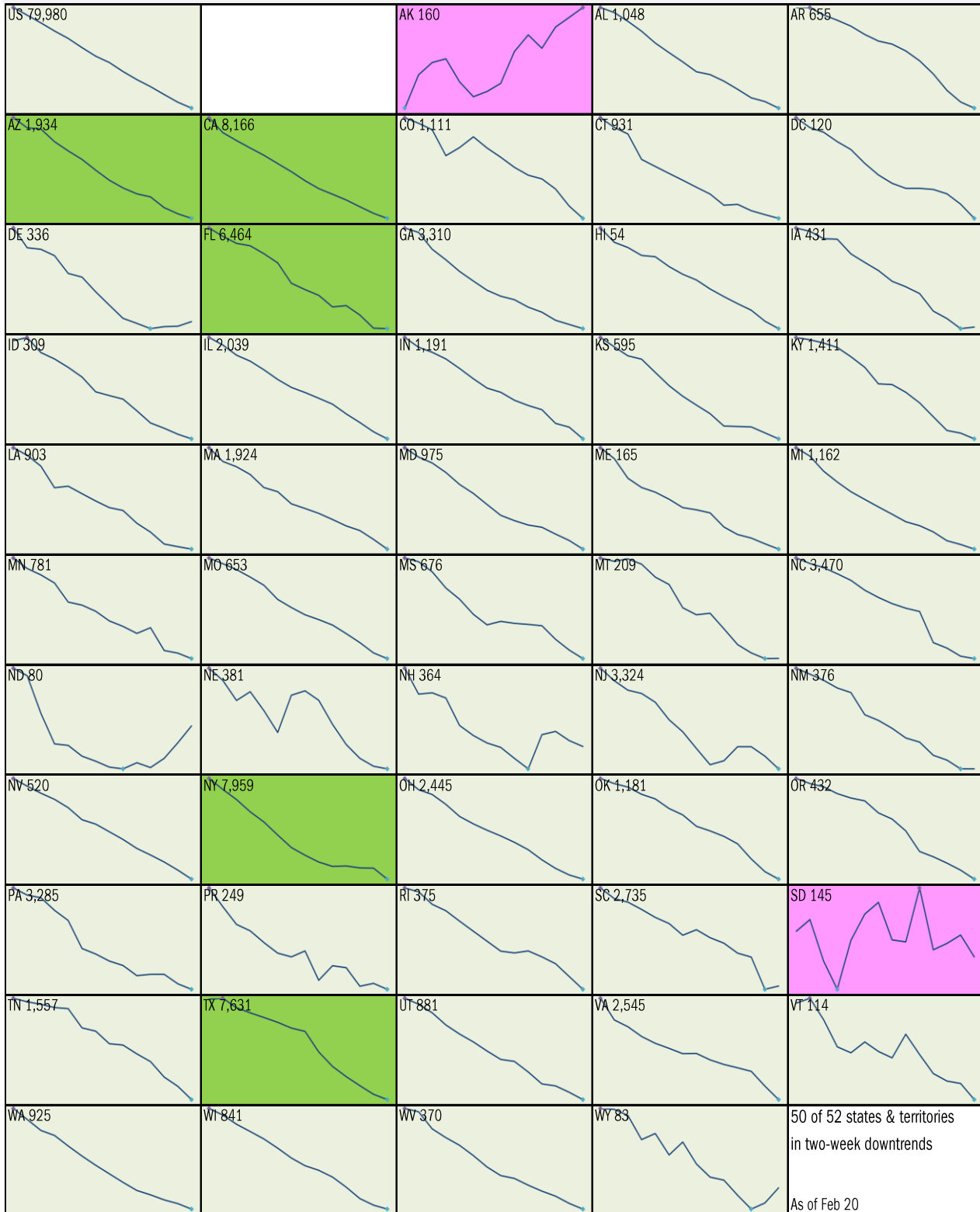
Vertical: days to double deaths Horizontal: days from first death

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



Source: [Johns Hopkins](#), [Covid Tracking Project](#), 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

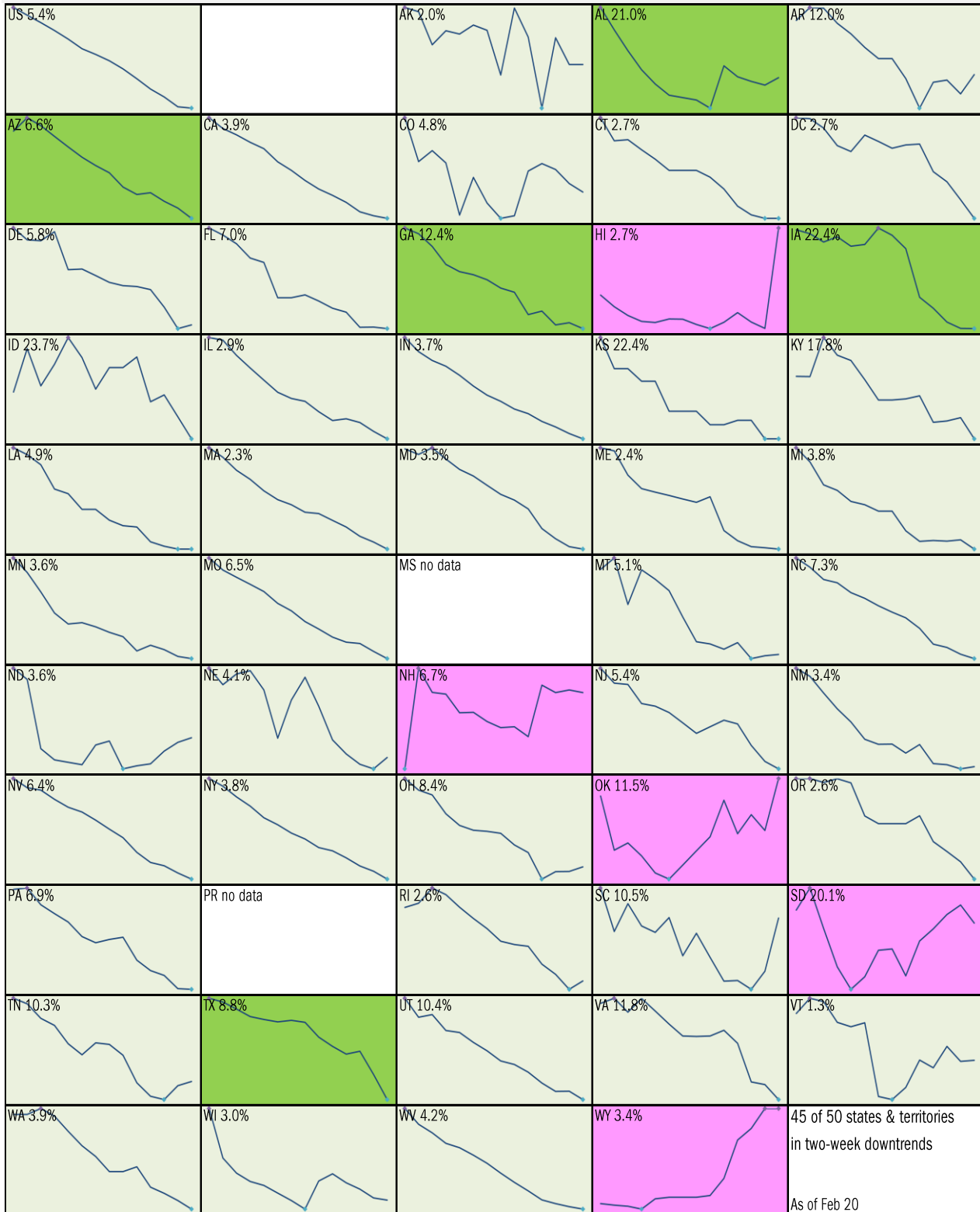


Source: [Covid Tracking Project](#), TrendMacro calculations

Alt requirement to [Open Up America Again](#): 14-day “downward trajectory” in pos tests

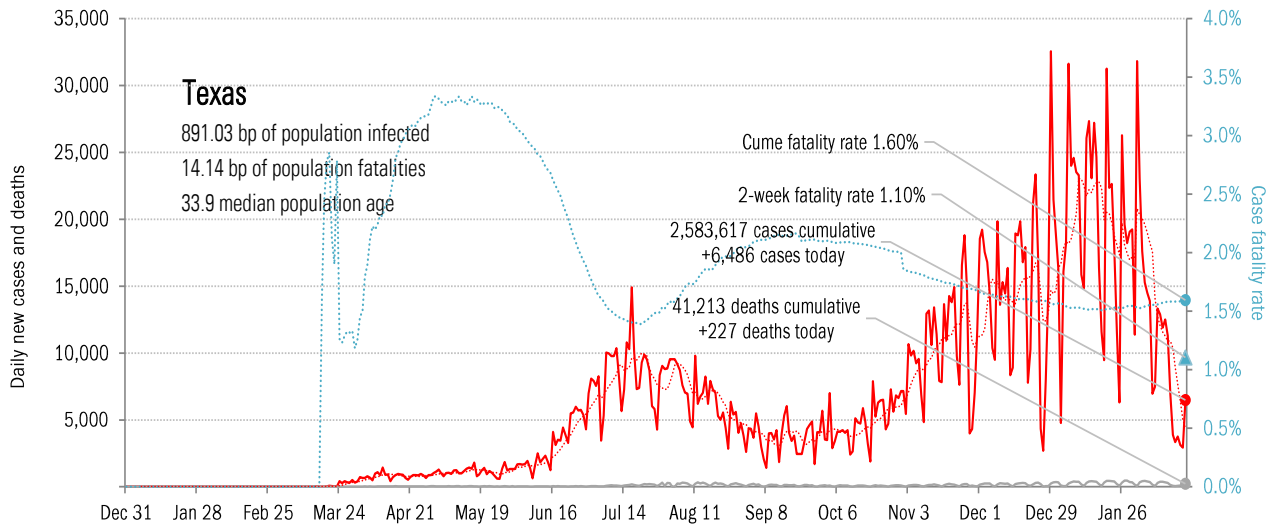
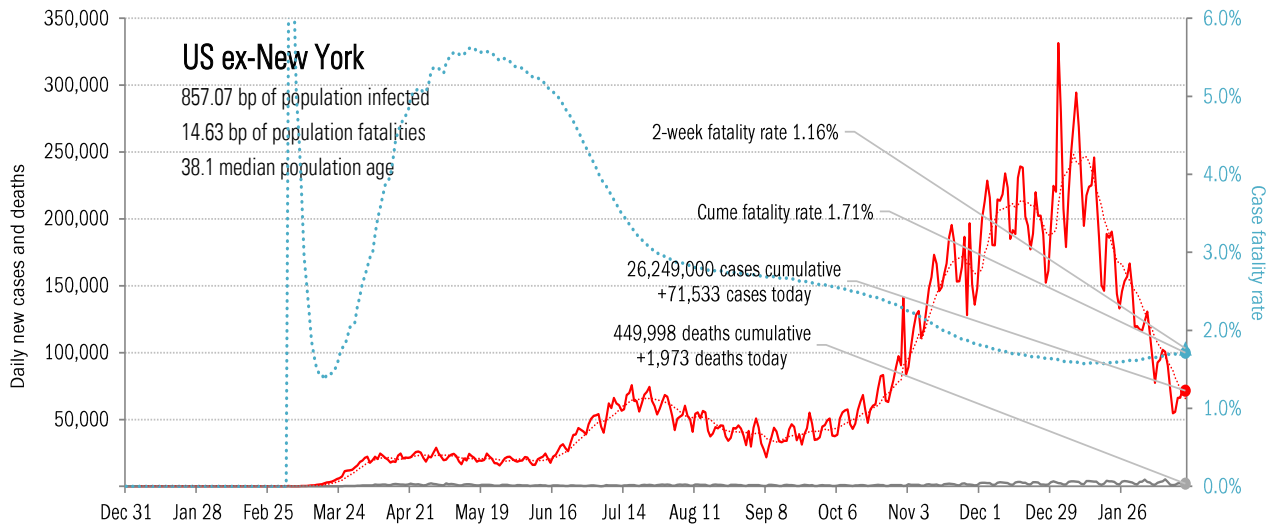
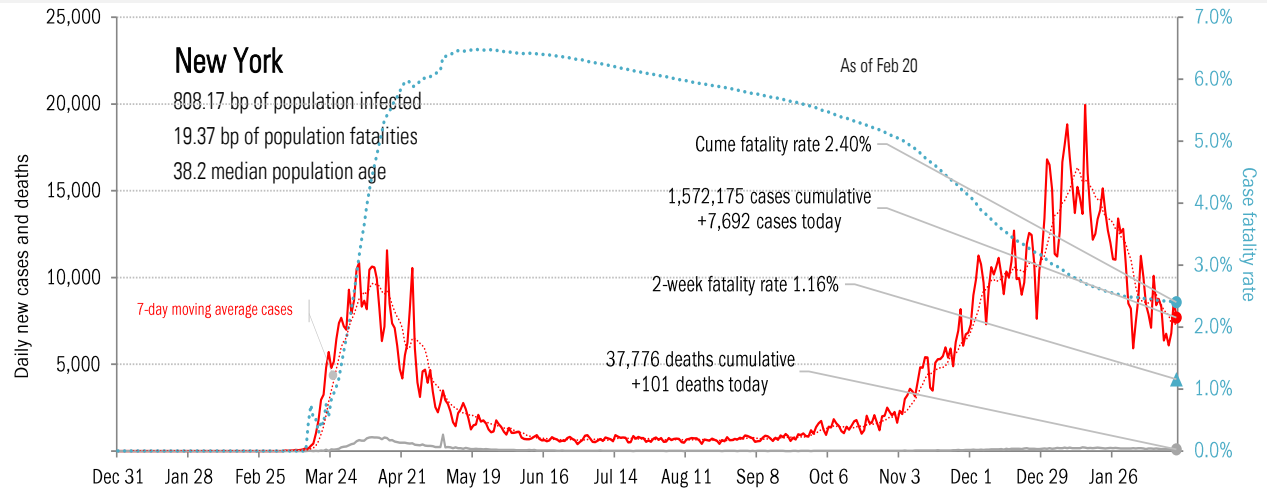
14-day moving average, last 14 days *Most recent value displayed* ● High ● Low

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



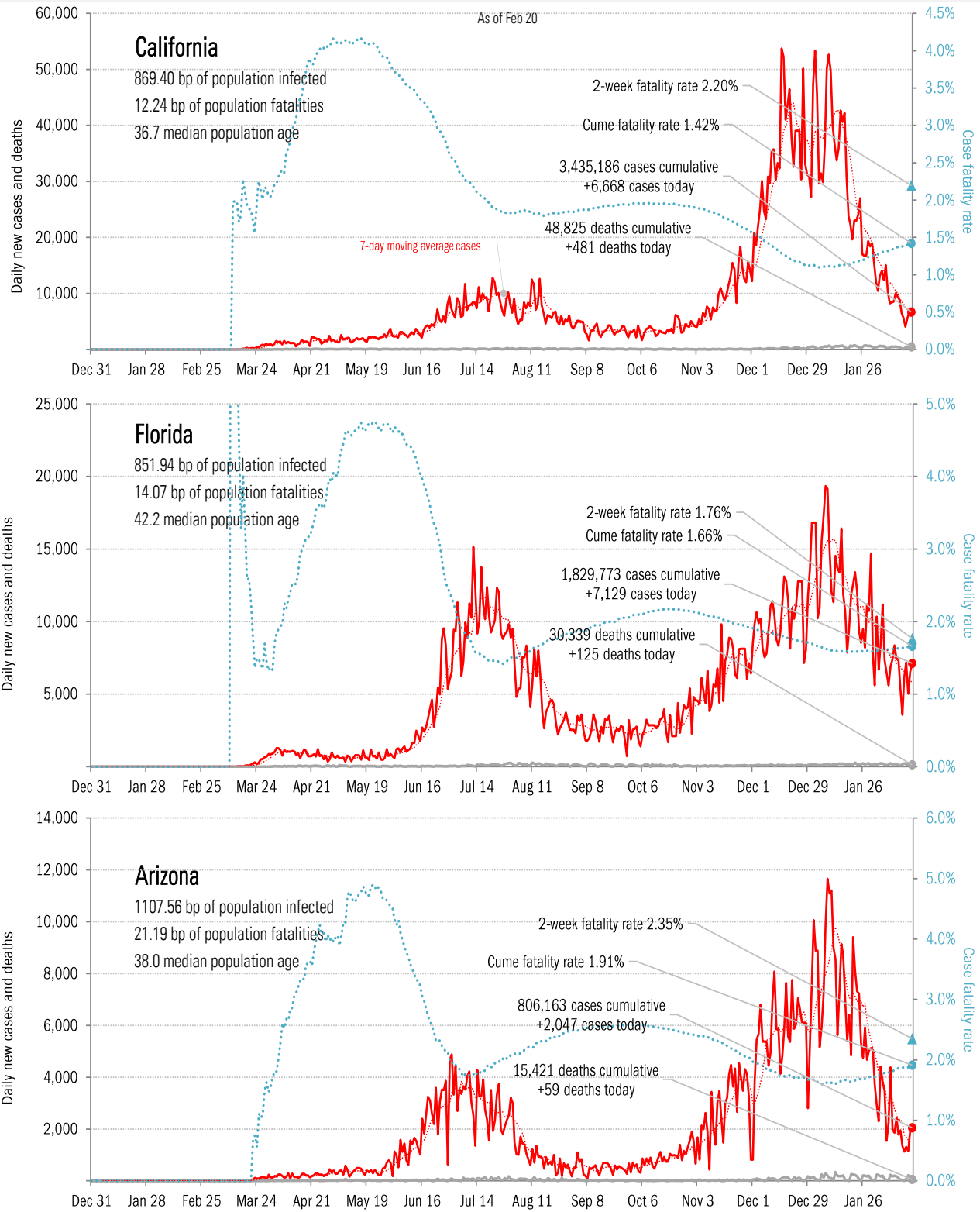
Source: [Covid Tracking Project](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



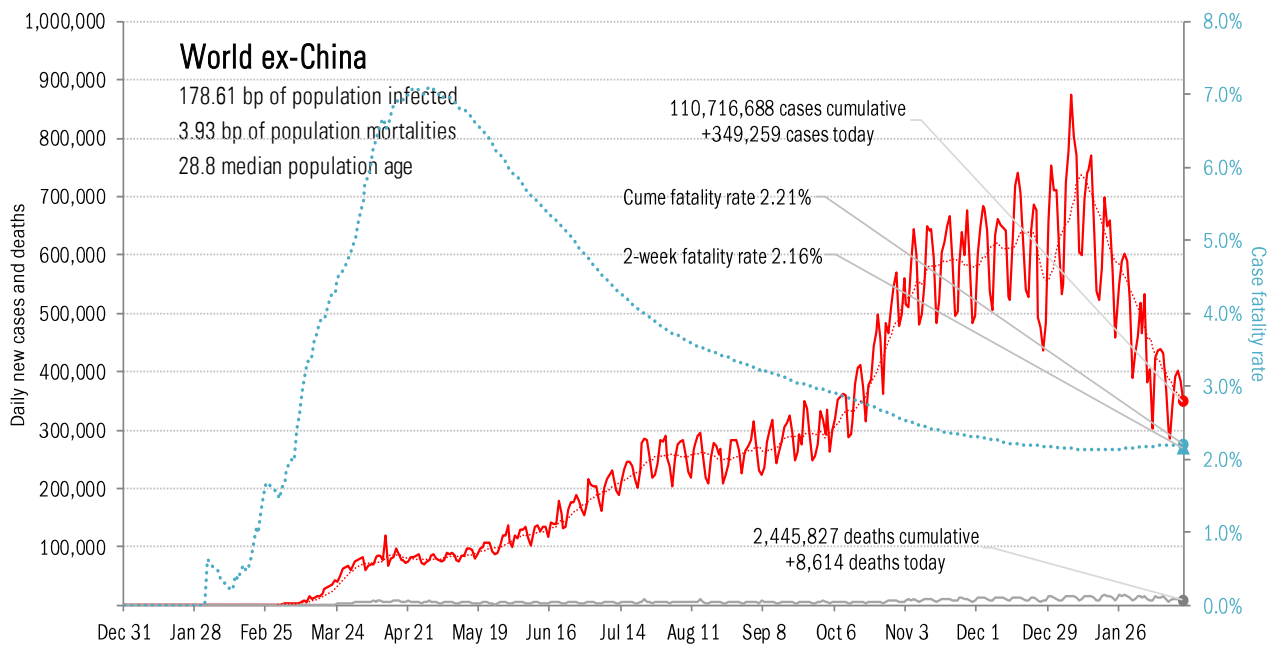
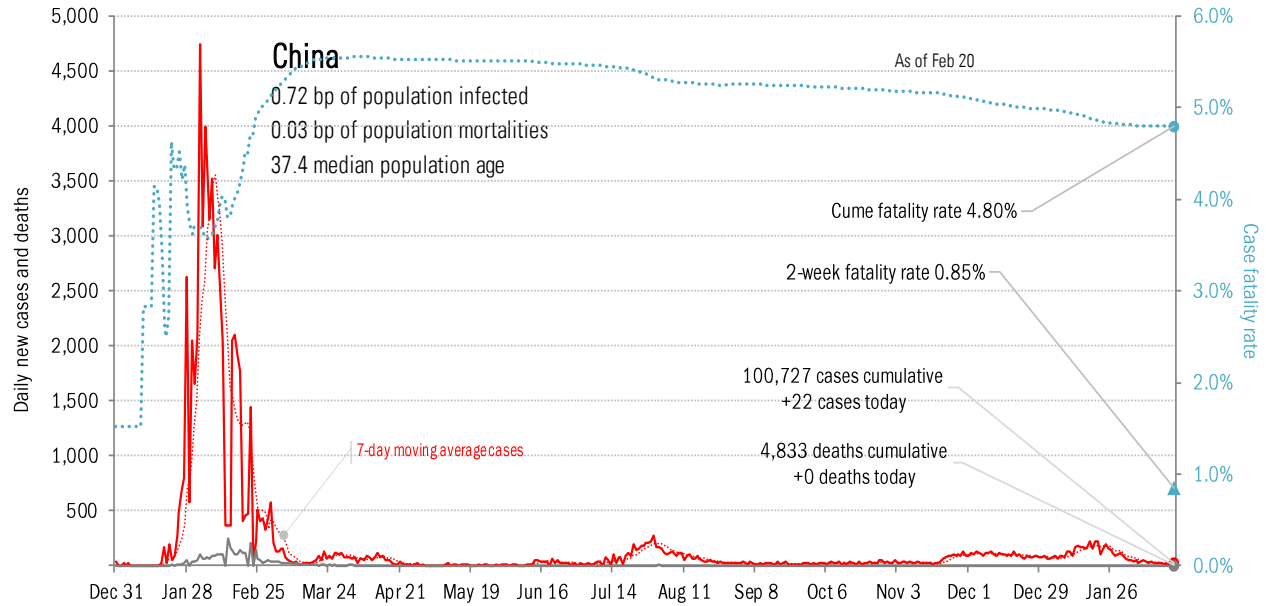
Source: [Covid Tracking Project](#), TrendMacro calculations

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



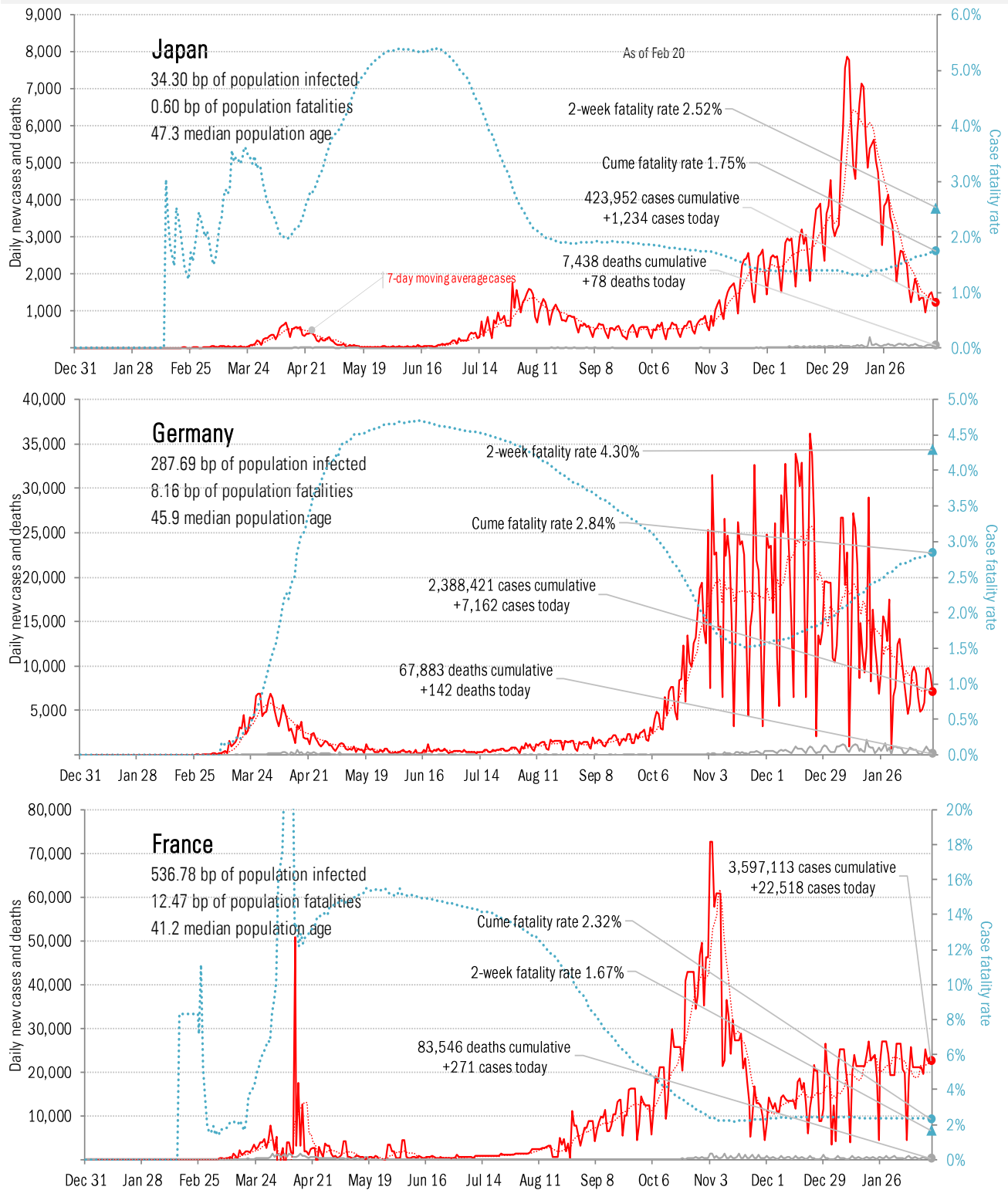
Source: [Covid Tracking Project](#), TrendMacro calculations

# Patient zero... and then everyone else



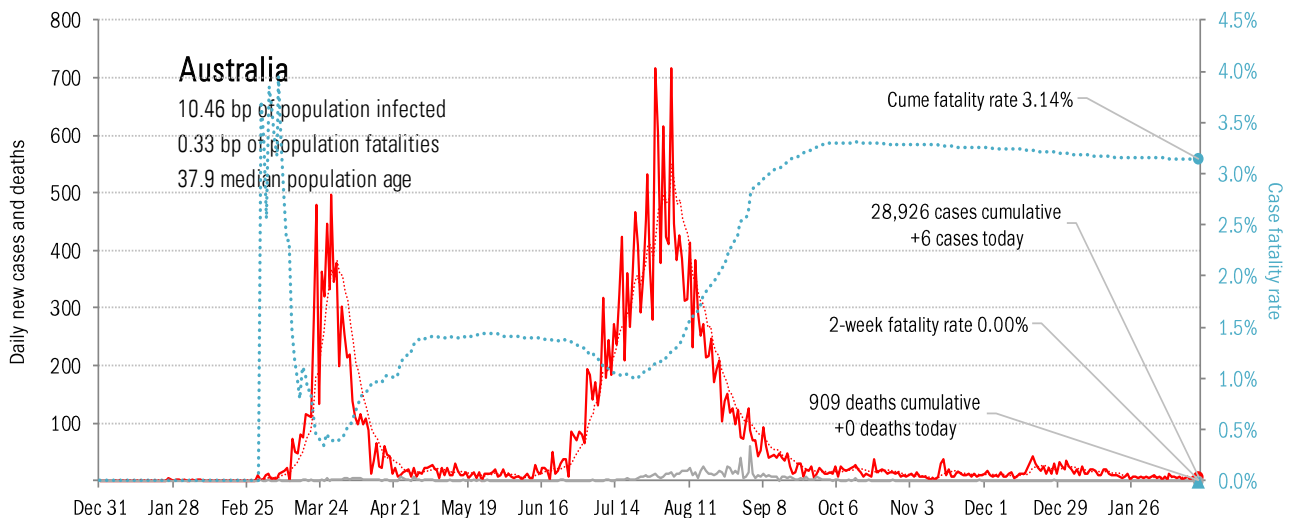
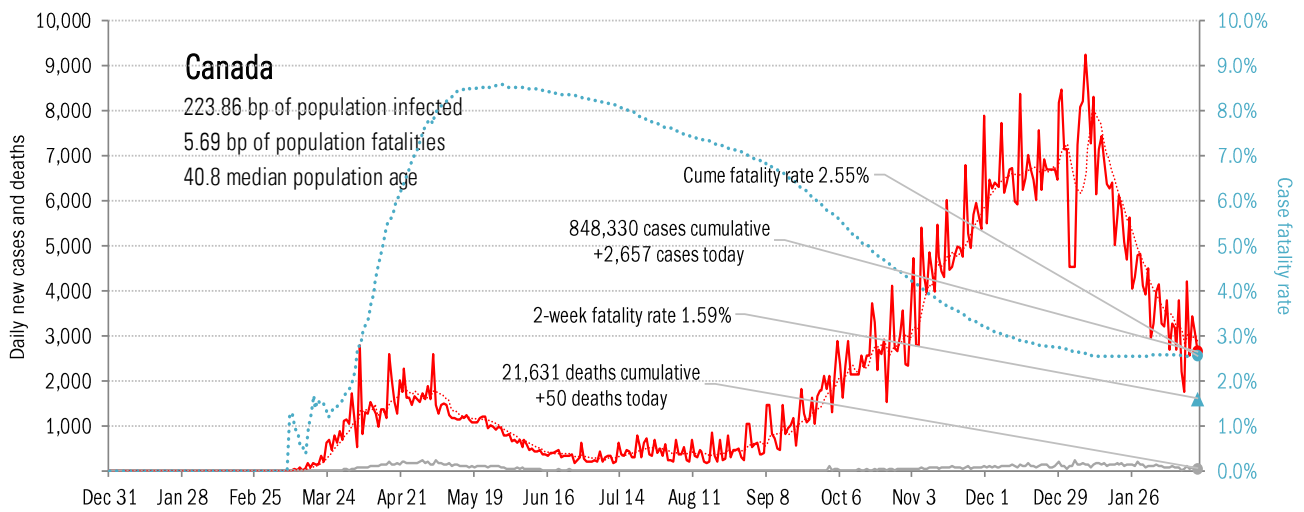
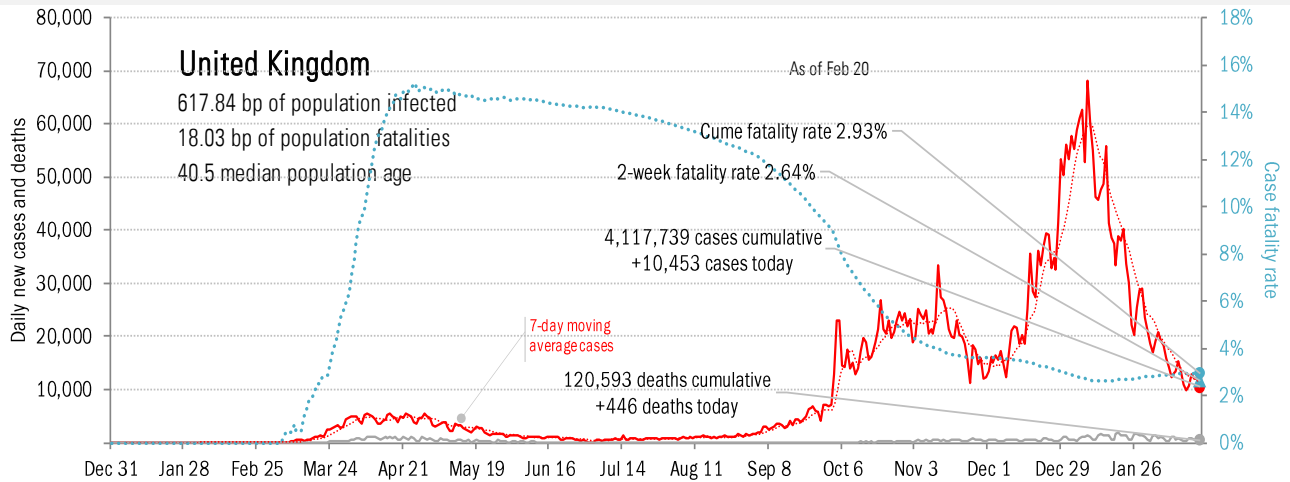
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

# Impact in the largest economies



Source: [Johns Hopkins](#), TrendMacro calculations

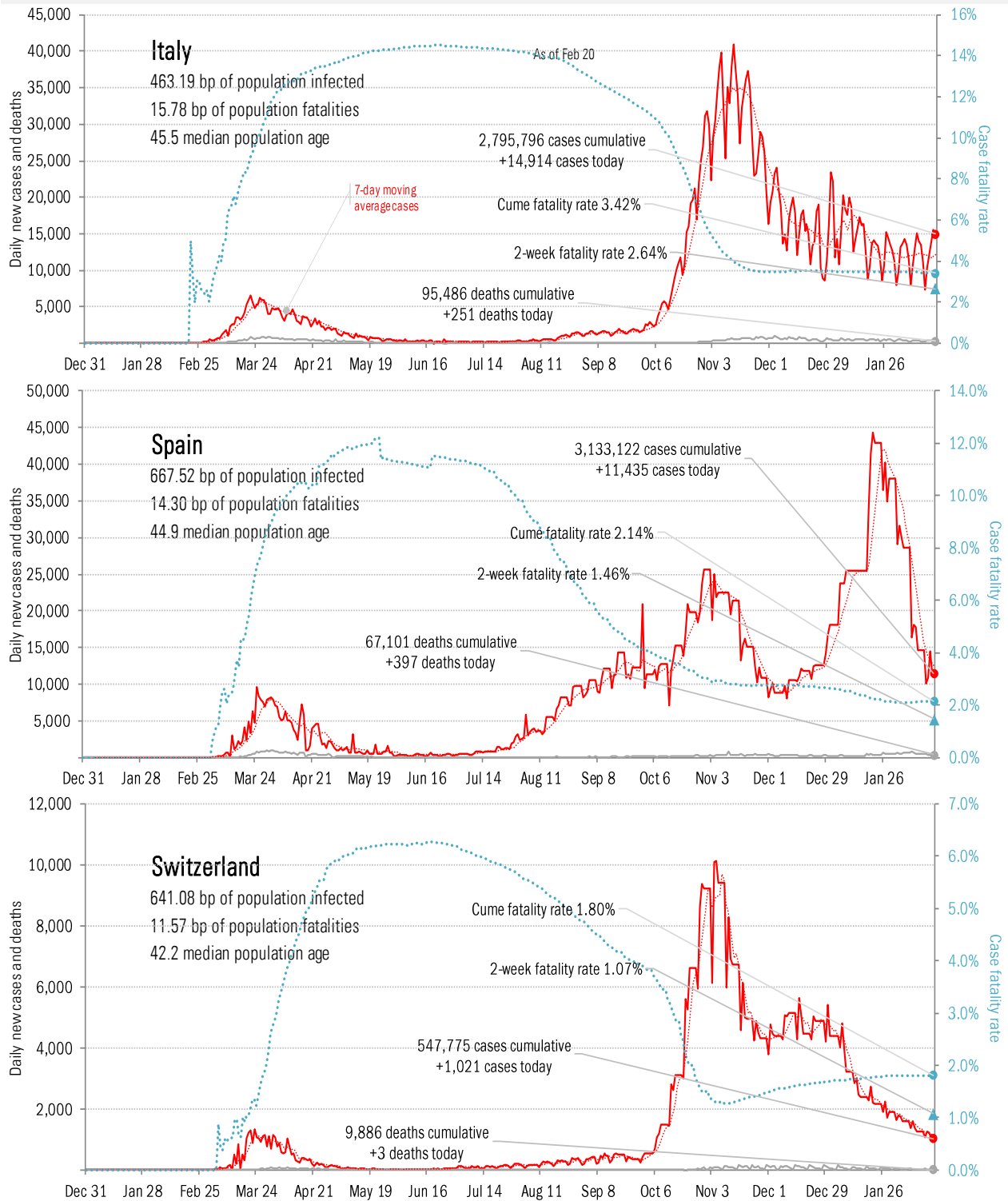
# Impact in The Anglosphere



Source: [Johns Hopkins](#), TrendMacro calculations

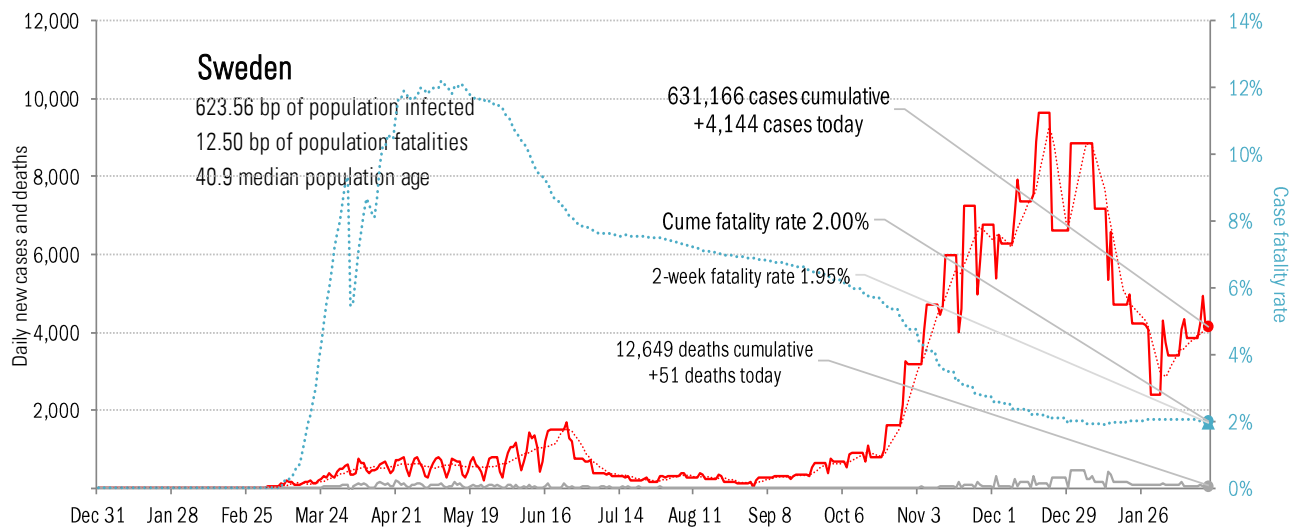
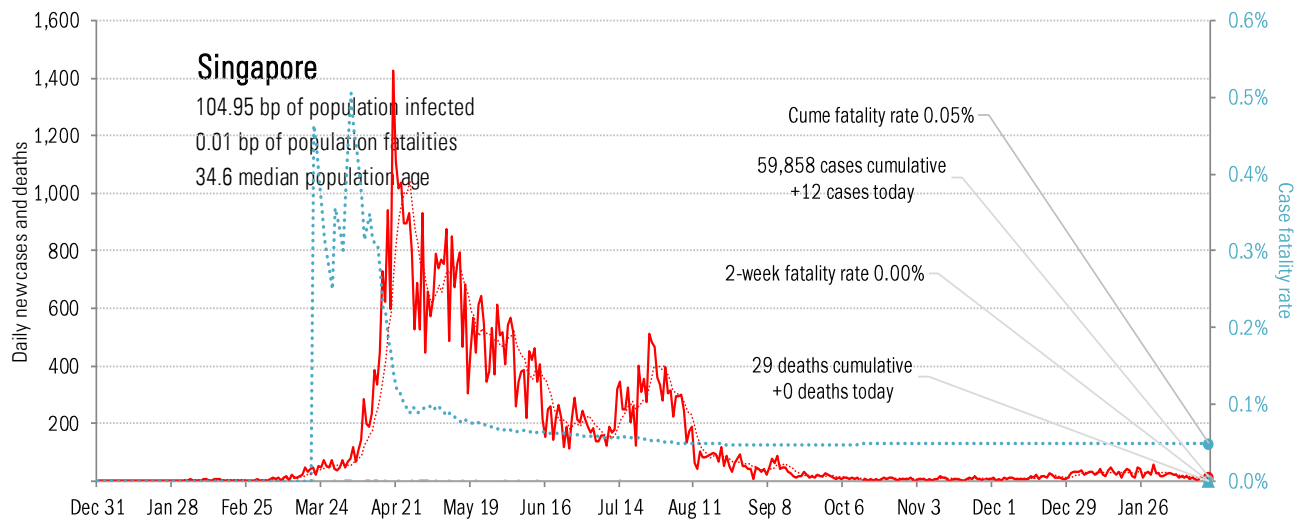
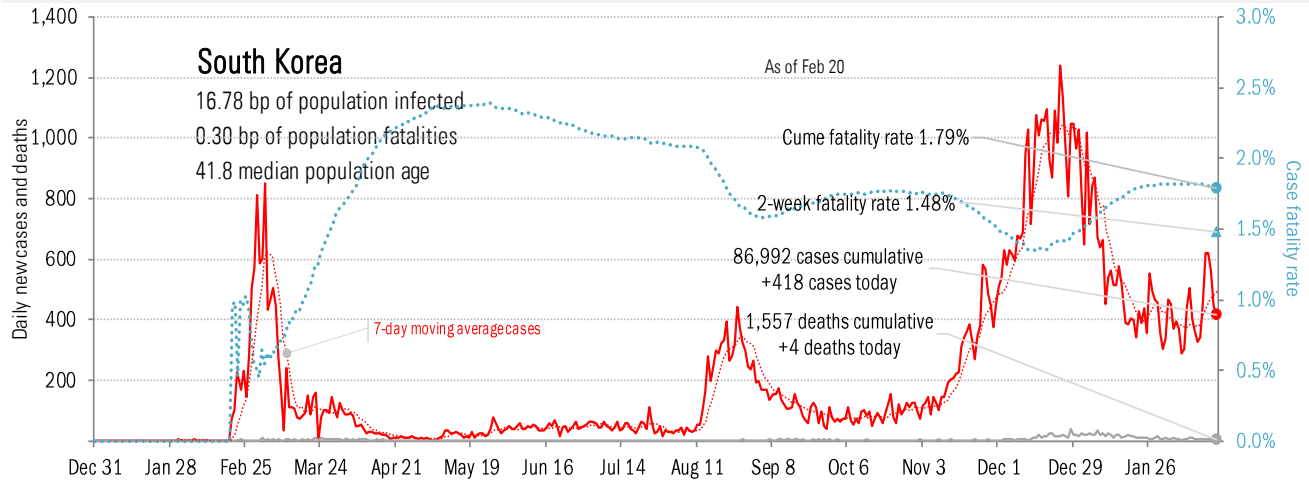


# Impact in continental Europe



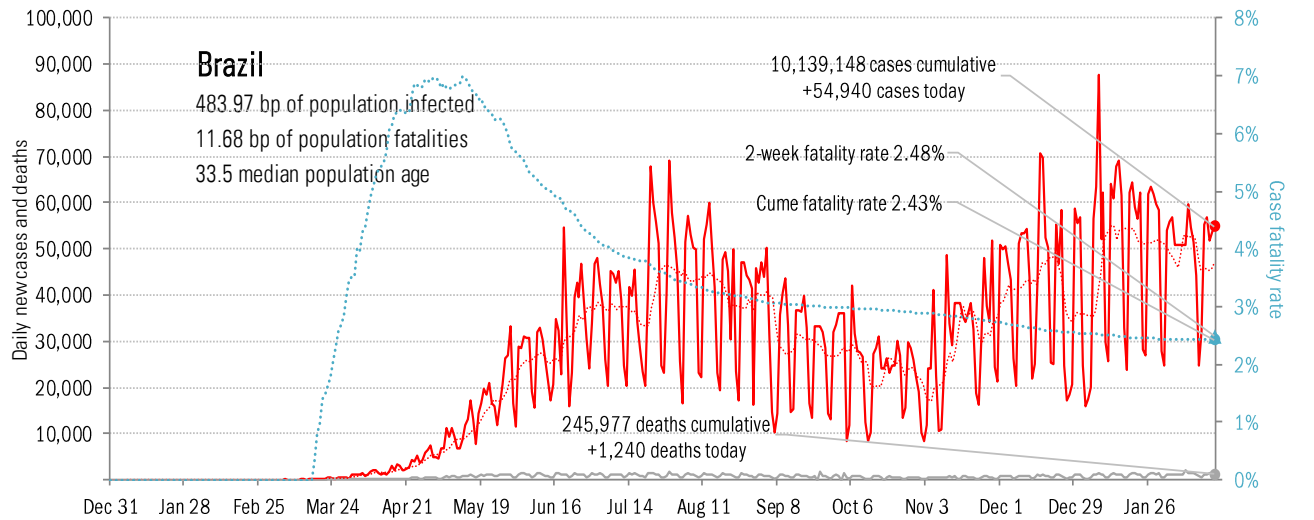
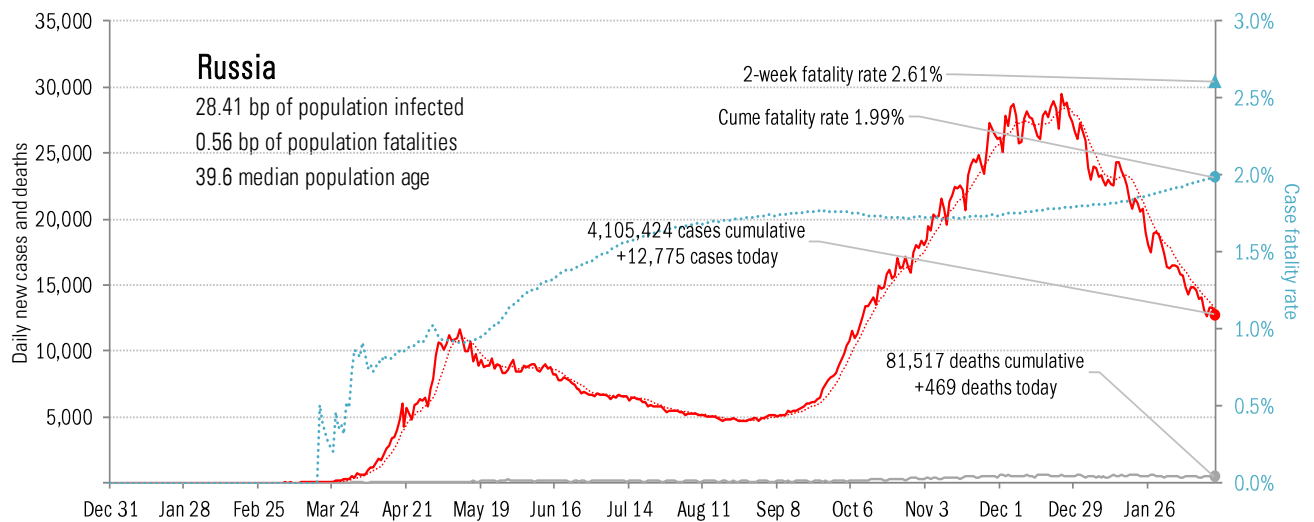
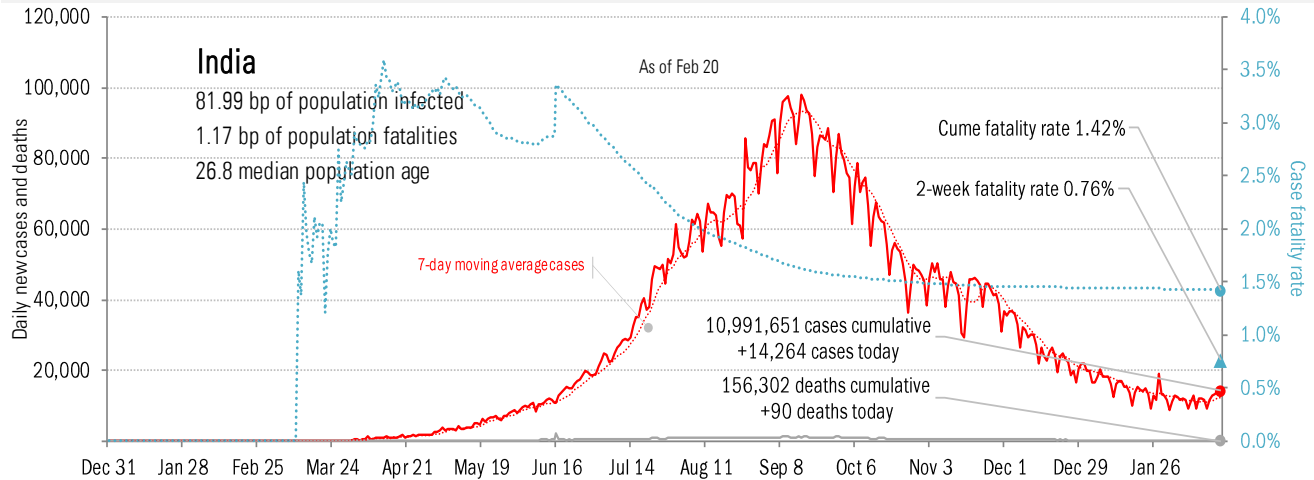
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



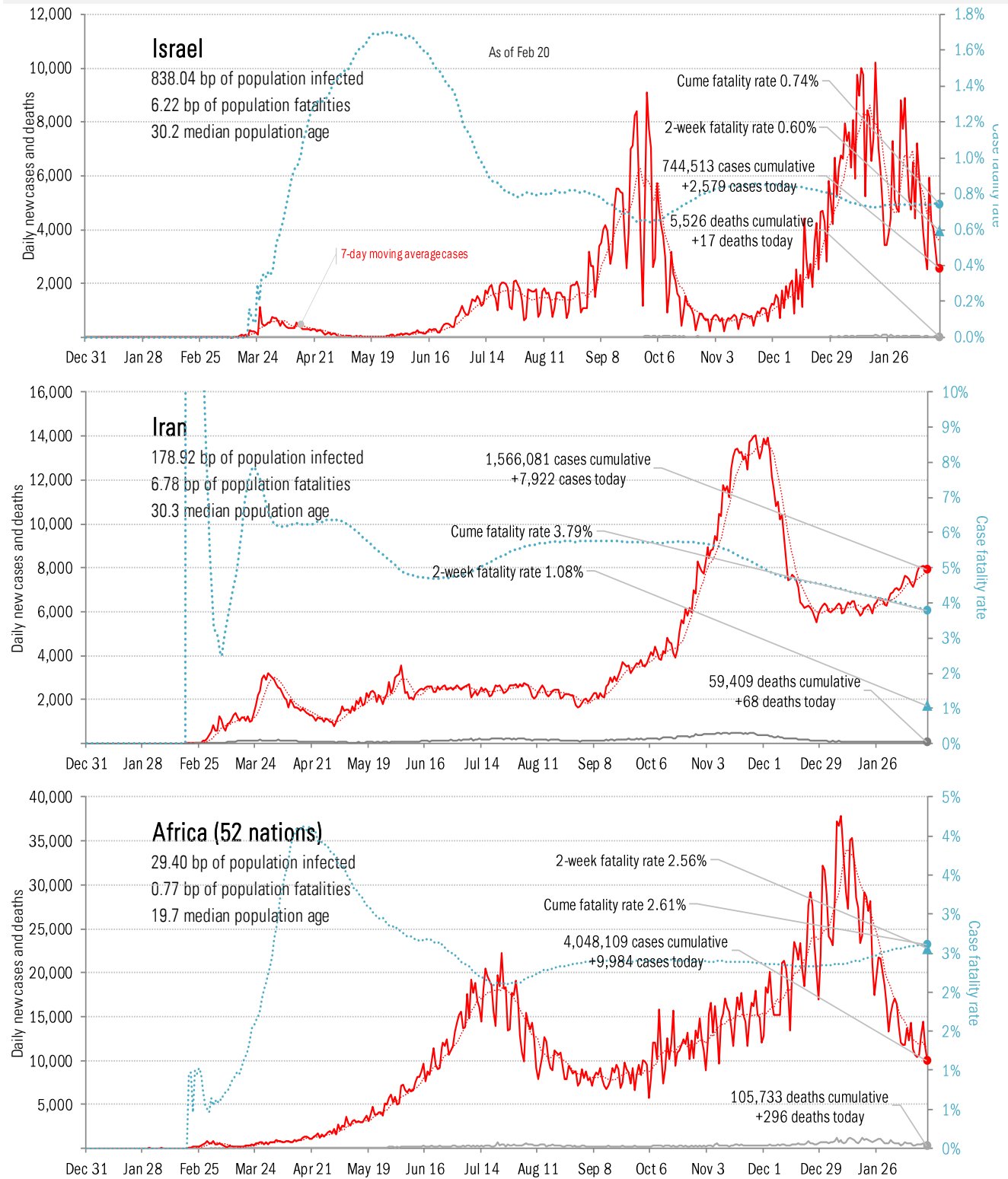
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



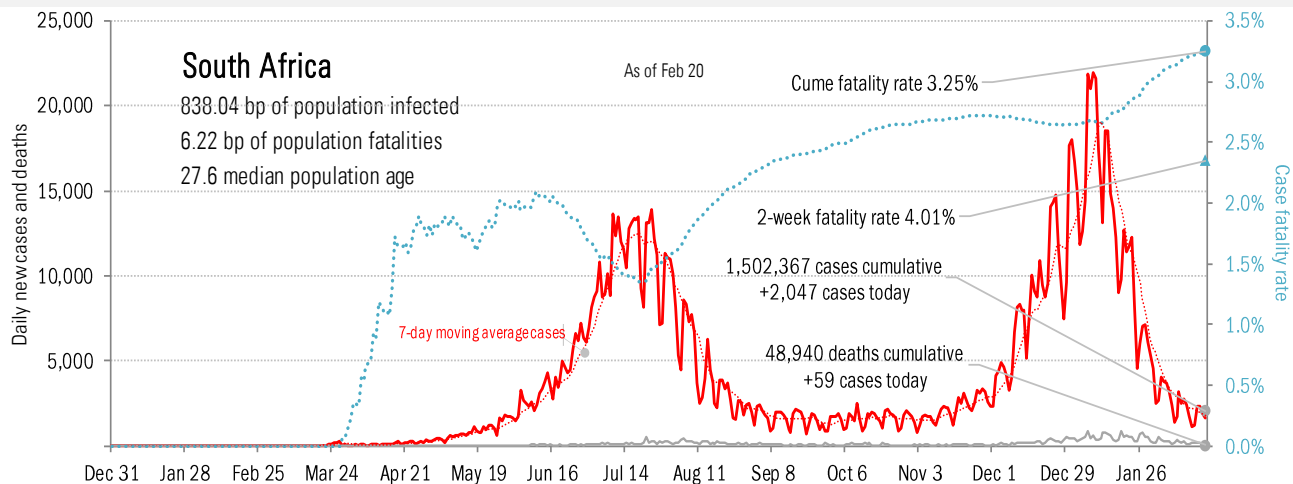
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in Africa, continued



Source: [Johns Hopkins](#), TrendMacro calculations