

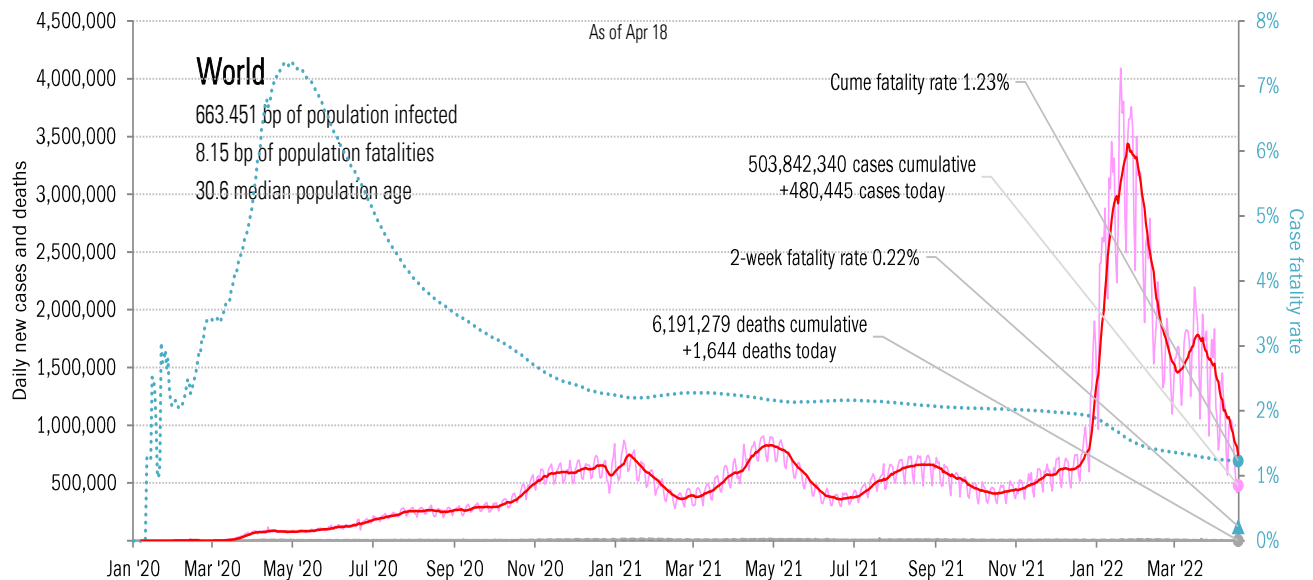
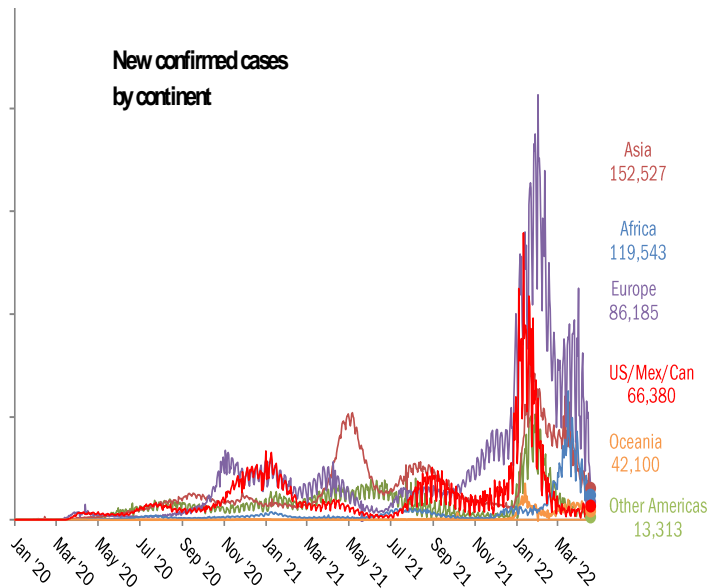
Data Insights: Covid-2019 Monitor

Tuesday, April 19, 2022

The global scorecard

Cases: 7-day average and daily Deaths: Daily

| The worst ten countries | | | |
|-------------------------|---------|---------------|-------|
| New cases | | New Deaths | |
| Korea, South | 118,445 | United States | 493 |
| United States | 54,406 | Russia | 208 |
| Vietnam | 43,272 | Korea, South | 130 |
| Australia | 42,032 | Thailand | 129 |
| China | 40,657 | Italy | 79 |
| Japan | 24,142 | Brazil | 64 |
| Germany | 22,483 | Greece | 64 |
| France | 19,810 | France | 48 |
| Italy | 18,588 | Indonesia | 37 |
| Thailand | 16,891 | South Africa | 34 |
| 400,726 | | 1,286 | |
| World | 480,445 | World | 1,644 |
| Top ten | 83% | Top ten | 78% |



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

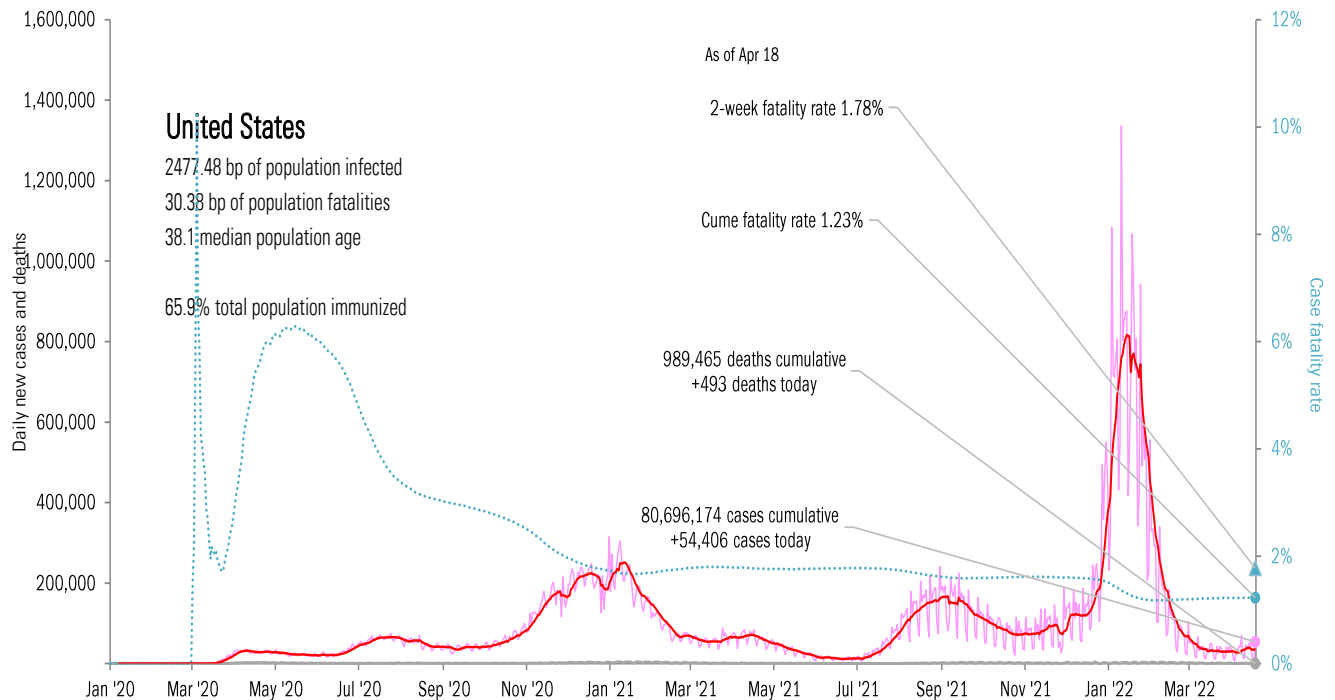
The ten worst US states

| New cases | | | New deaths | | | New in hospital | | | Curre cases | | | Curre deaths | | | Curre in hospital | | | Hospital use | | ICU use | | |
|------------|--------|--|------------|----|--|-----------------|-----|--|-------------|------------|--|--------------|--------|--|-------------------|---------|--|--------------|-----|---------|-----|-----|
| NY | 11,666 | | TX | 40 | | FL | 212 | | CA | 9,160,986 | | CA | 89,697 | | TX | 488,896 | | RI | 89% | | RI | 84% |
| TX | 6,451 | | CA | 27 | | GA | 129 | | TX | 6,791,473 | | TX | 87,849 | | CA | 424,918 | | MA | 85% | | TX | 83% |
| IL | 5,755 | | KS | 23 | | CA | 129 | | FL | 5,912,913 | | FL | 73,845 | | FL | 415,531 | | MN | 84% | | KY | 81% |
| WA | 3,315 | | FL | 22 | | PA | 62 | | NY | 5,085,778 | | NY | 68,125 | | NY | 247,756 | | WV | 81% | | NM | 81% |
| CA | 3,231 | | VA | 22 | | OH | 54 | | IL | 3,100,240 | | PA | 44,488 | | GA | 207,412 | | MD | 81% | | AL | 80% |
| CO | 2,839 | | AZ | 20 | | NC | 47 | | PA | 2,798,707 | | CH | 38,266 | | CH | 190,873 | | GA | 79% | | MA | 80% |
| VA | 2,620 | | IN | 14 | | AL | 24 | | CH | 2,681,437 | | GA | 37,523 | | PA | 176,370 | | MO | 79% | | DC | 78% |
| CT | 1,960 | | OR | 12 | | CO | 28 | | NC | 2,639,241 | | IL | 35,950 | | IL | 157,464 | | WA | 79% | | NC | 77% |
| WI | 1,674 | | NY | 11 | | LA | 26 | | GA | 2,506,634 | | MI | 35,857 | | MI | 141,540 | | DE | 78% | | VW | 76% |
| CR | 1,514 | | AL | 8 | | CT | 31 | | MI | 2,400,990 | | NJ | 33,336 | | KY | 132,957 | | DC | 77% | | DE | 76% |
| 41,025 | | | 199 | | | 742 | | | 43,078,399 | | | 544,936 | | | 2,583,717 | | | | | | | |
| All states | 54,406 | | 493 | | | 1,578 | | | All states | 80,696,174 | | 989,465 | | | 4,691,026 | | | All states | 70% | | 67% | |
| Top ten | 75% | | 40% | | | 47% | | | Top ten | 53% | | 55% | | | 55% | | | Median | 72% | | 70% | |

Some states not reporting

Five most improved US states

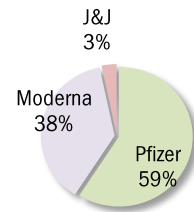
| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | | Most pop immunity growth | |
|-------------------|--------|------------------|------|----------------------------|-----|--------------------------|--------|
| FL | -6,561 | FL | -112 | NY | -46 | AL | +10 bp |
| FR | -3,612 | AR | -3 | IN | -28 | KS | +10 bp |
| AZ | -2,509 | FR | -1 | TX | -19 | LA | +10 bp |
| NJ | -1,649 | AK | 0 | NJ | -16 | MD | +10 bp |
| AR | -6 | AS | 0 | AR | -10 | NJ | +10 bp |



Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

| Administered | Cumulative | | Today | Immunity | Full | Partial |
|------------------|-------------|-------|----------------|----------|------------------|---------------------|
| Doses | 584,808,264 | | +0.123 million | US | 65.9% | 77.3% |
| Boosters | 100,795,785 | | +0.023 million | UK | 72.7% | 77.7% |
| | One dose | % Pop | Immune | % pop | New immune today | |
| Total population | 264,538,227 | 79% | 225,205,329 | 67% | +0.015 million | France 77.9% 80.1% |
| Age 12 to 17 | 17,658,501 | 70% | 15,064,183 | 60% | +0.001 million | Spain 86.3% 88.1% |
| Age 18 to 64 | 178,031,938 | 88% | 151,026,809 | 74% | +0.007 million | Germany 75.4% 76.0% |
| Age 65 and over | 58,647,261 | 100% | 50,920,063 | 93% | +0.005 million | Italy 79.3% 84.1% |



| | |
|----|-------|
| AK | 69.6% |
| | 62.0% |

| State |
|---|
| At least partial immunity as % population |
| Full immunity as % population |

Best
Middle
Worst

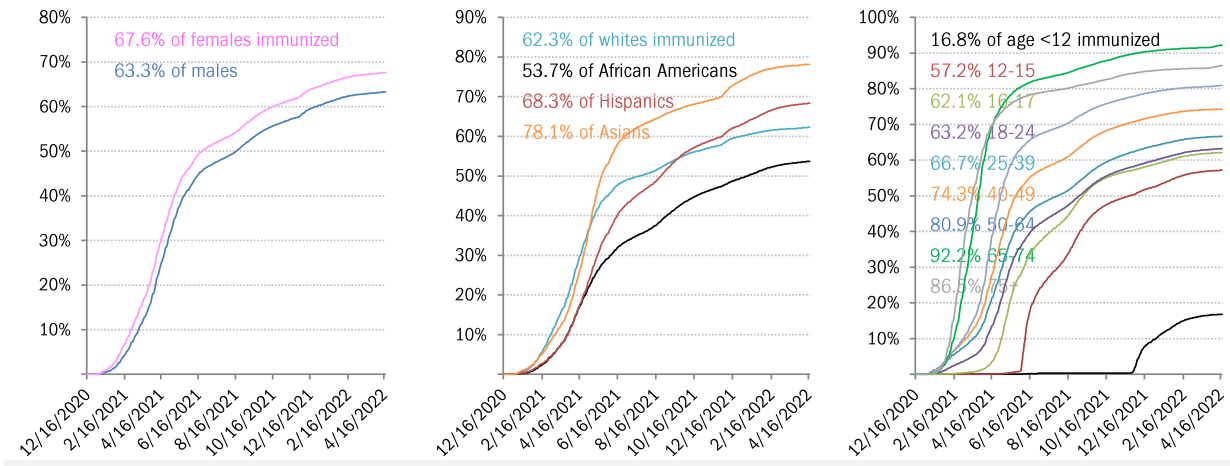
| | | |
|--------|-------|-------|
| Israel | 66.0% | 72.2% |
| Canada | 82.1% | 86.9% |
| Japan | 80.2% | 81.7% |
| Africa | 16.2% | 21.2% |
| India | 60.4% | 71.6% |
| Brazil | 76.0% | 85.0% |
| China | 86.2% | 88.6% |

Global data differs due to sources, timing

As of Apr 18

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | WI | | | | | | ME |
| | | | | | 71.7% | | | | | | 89.9% |
| | | | | | 65.4% | | | | | | 79.2% |
| WA | ID | MT | ND | MN | IL | MI | | NY | VT | NH | |
| 80.6% | 61.0% | 65.1% | 64.8% | 74.9% | 76.5% | 66.8% | | 89.9% | 93.2% | 86.8% | |
| 72.4% | 53.9% | 56.6% | 54.7% | 69.0% | 68.5% | 60.0% | | 76.6% | 80.9% | 69.2% | |
| OR | NV | WY | SD | IA | IN | OH | PA | NJ | MA | | |
| 77.7% | 75.0% | 58.6% | 76.1% | 67.8% | 61.3% | 63.4% | 84.5% | 90.1% | 95.0% | | |
| 69.4% | 60.6% | 51.4% | 61.0% | 61.8% | 54.7% | 58.3% | 68.1% | 75.4% | 78.6% | | |
| CA | UT | CO | NE | MO | KY | WV | VA | MD | CT | RI | |
| 83.4% | 71.9% | 79.1% | 70.1% | 66.0% | 66.0% | 64.8% | 85.4% | 86.2% | 95.0% | 95.0% | |
| 71.8% | 64.1% | 70.0% | 63.4% | 55.9% | 57.2% | 57.4% | 72.9% | 75.4% | 78.9% | 82.2% | |
| | AZ | NM | KS | AR | TN | NC | SC | DC | DE | | |
| | 72.8% | 87.3% | 74.3% | 66.4% | 62.0% | 83.7% | 67.3% | 95.0% | 82.8% | | |
| | 61.3% | 70.8% | 61.2% | 54.2% | 54.3% | 60.6% | 56.6% | 73.6% | 68.8% | | |
| | | | OK | LA | MS | AL | GA | | | | |
| | | | 70.8% | 60.9% | 59.4% | 62.6% | 65.2% | | | | |
| | | | 57.0% | 53.4% | 51.7% | 51.0% | 54.5% | | | | |
| | | | TX | | | | | | | | |
| | | | 72.7% | | | | | | | | |
| | | | 61.2% | | | | | | | | |
| | | | | | | | | FL | | | |
| | | | | | | | | 79.0% | | | |
| | | | | | | | | 66.8% | | | |
| | | | | | | | | | PR | | |
| | | | | | | | | | 94.7% | | |
| | | | | | | | | | 82.8% | | |

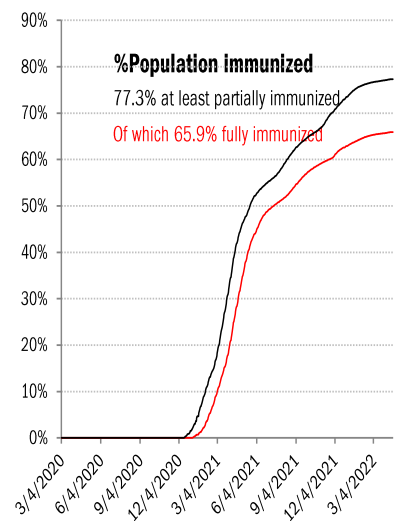
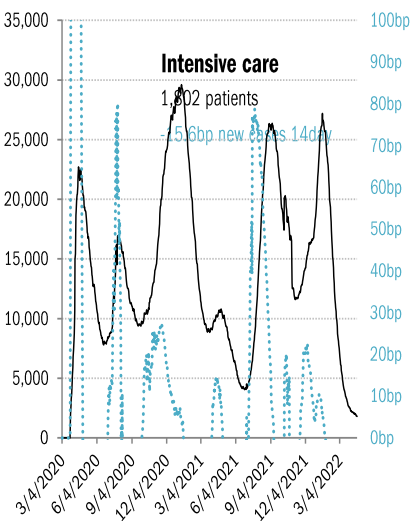
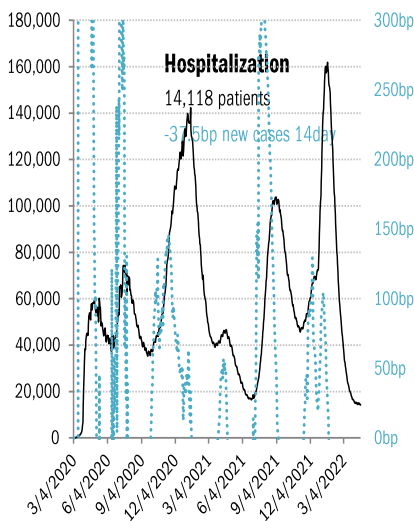
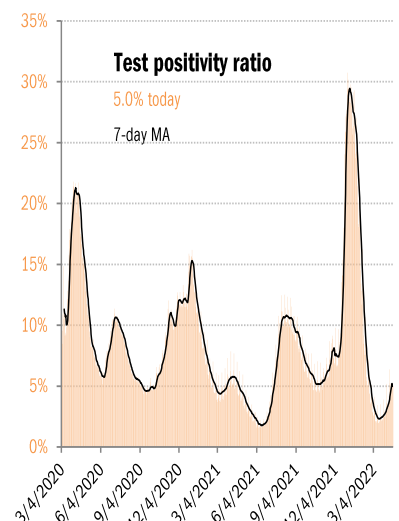
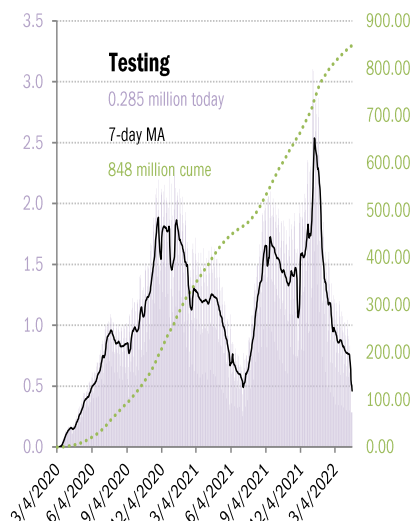
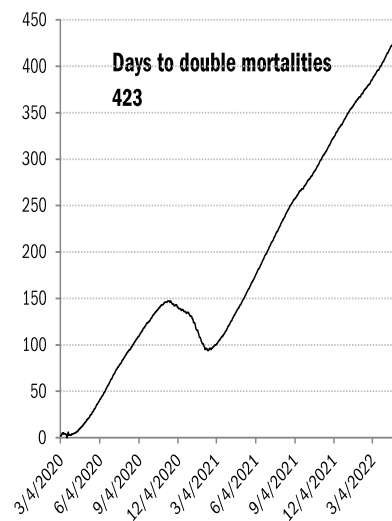
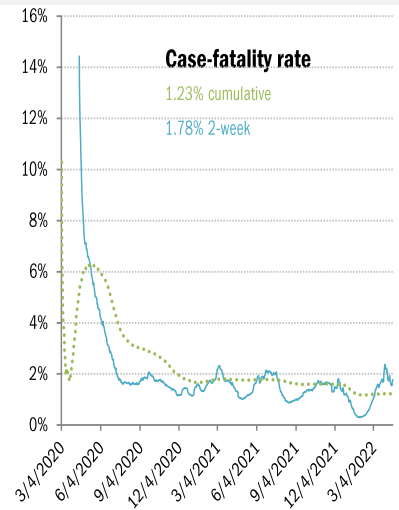
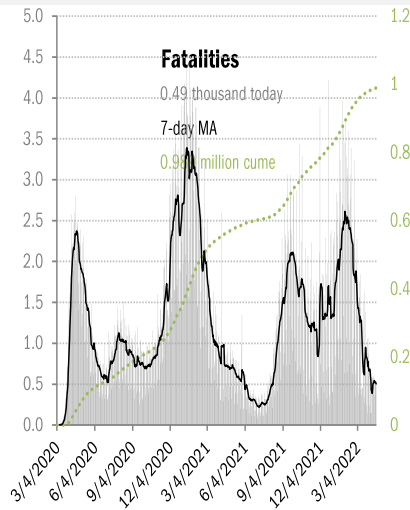
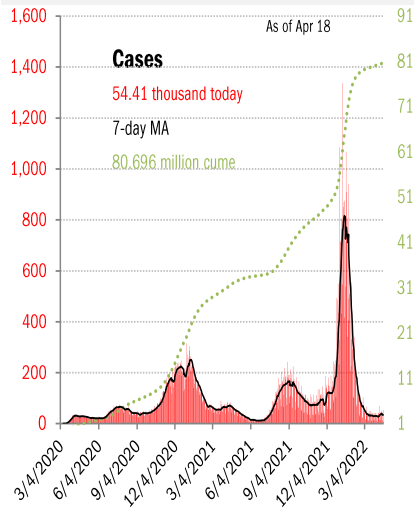
The demographics of US vaccination



Source: CDC, CDC, Our World in Data, TrendMacro calculations

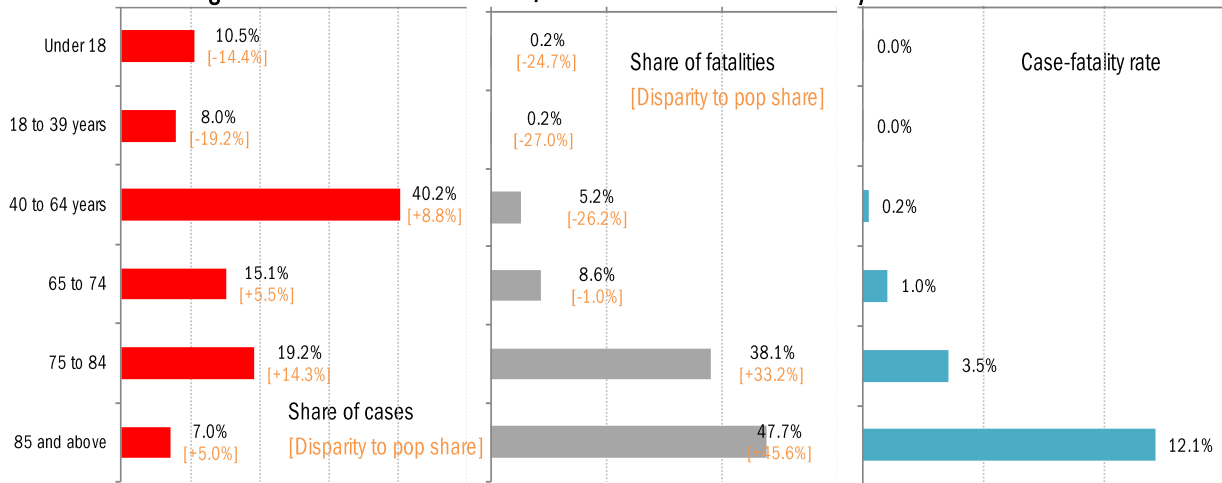
US deep-dive

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

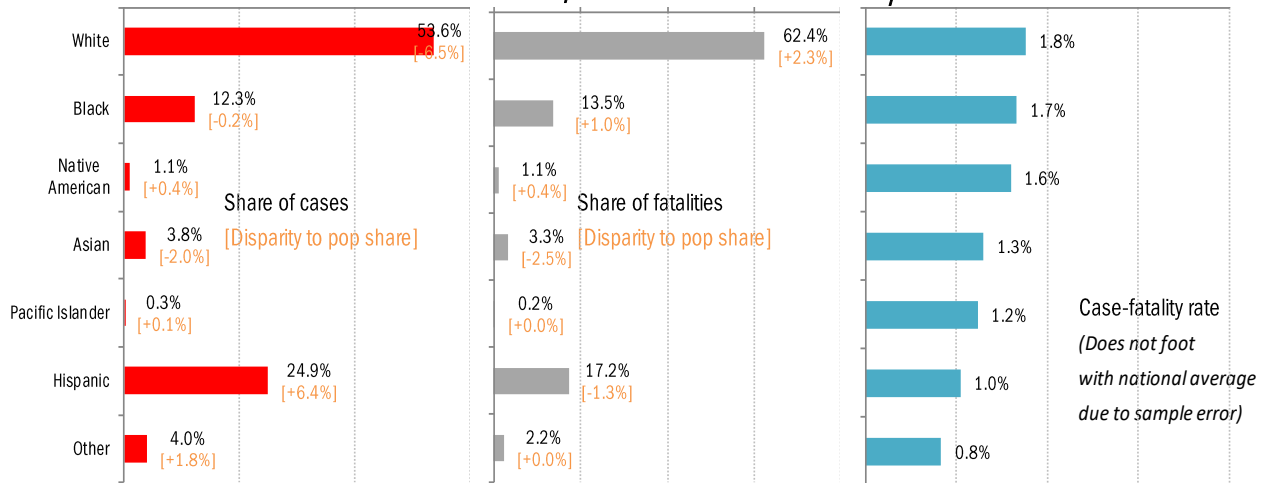


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

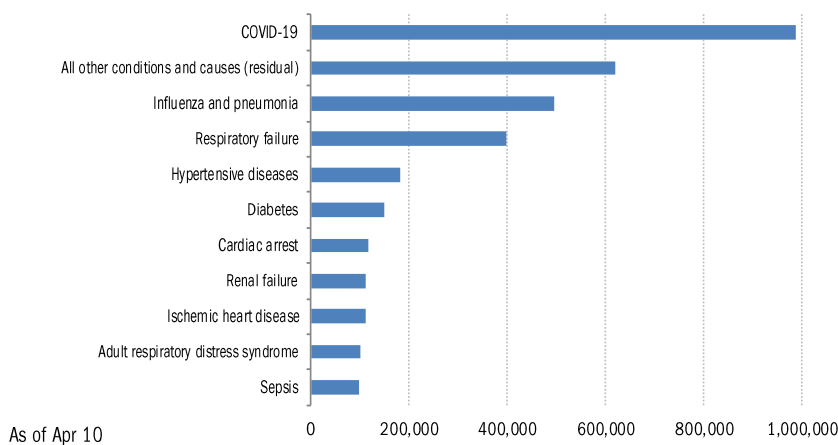


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



For over 5% of these deaths, COVID-19 was the only cause mentioned on the death certificate. For deaths with conditions or causes in addition to COVID-19, on average, there were 4.0 additional conditions or causes per death.

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

Recommended reading

[TSA will no longer enforce travel mask mandate after a federal judge strikes it down](#)

Jonathan Franklin
NPR
April 18, 2022

[After a 2-Year Ban, Hugs Are Back at Disneyland](#)

Brooks Barnes
New York Times
April 18, 2022

[Four Americans Were Infected With a Virus Variant Seen in Mink](#)

Emily Anthes
New York Times
April 18, 2022

[Order](#)

US District Judge Kathryn Kimball Mizelle
Health Freedom Defense Fund vs. Biden
April 18, 2022

[A federal judge strikes down the mask mandate on planes and public transit.](#)

Heather Murphy
New York Times
April 18, 2022

[BA.2 Proves the Pandemic Isn't Over, but People Are Over It](#)

Alex Janin
Wall Street Journal
April 18, 2022

['Voting with their feet': China's wealthy look to leave after Shanghai lockdown](#)

Sun Yu
Financial Times
April 18, 2022

[Small Businesses Object to Rerouting of Covid-19 Aid](#)

Amara Omeokwe, Anne Steele and Natalie Andrews
Wall Street Journal
April 18, 2022

[Shanghai Reports Three Deaths, First of Current Covid Outbreak](#)

Bloomberg
April 17, 2022

[Sweden's inconvenient Covid victory](#)

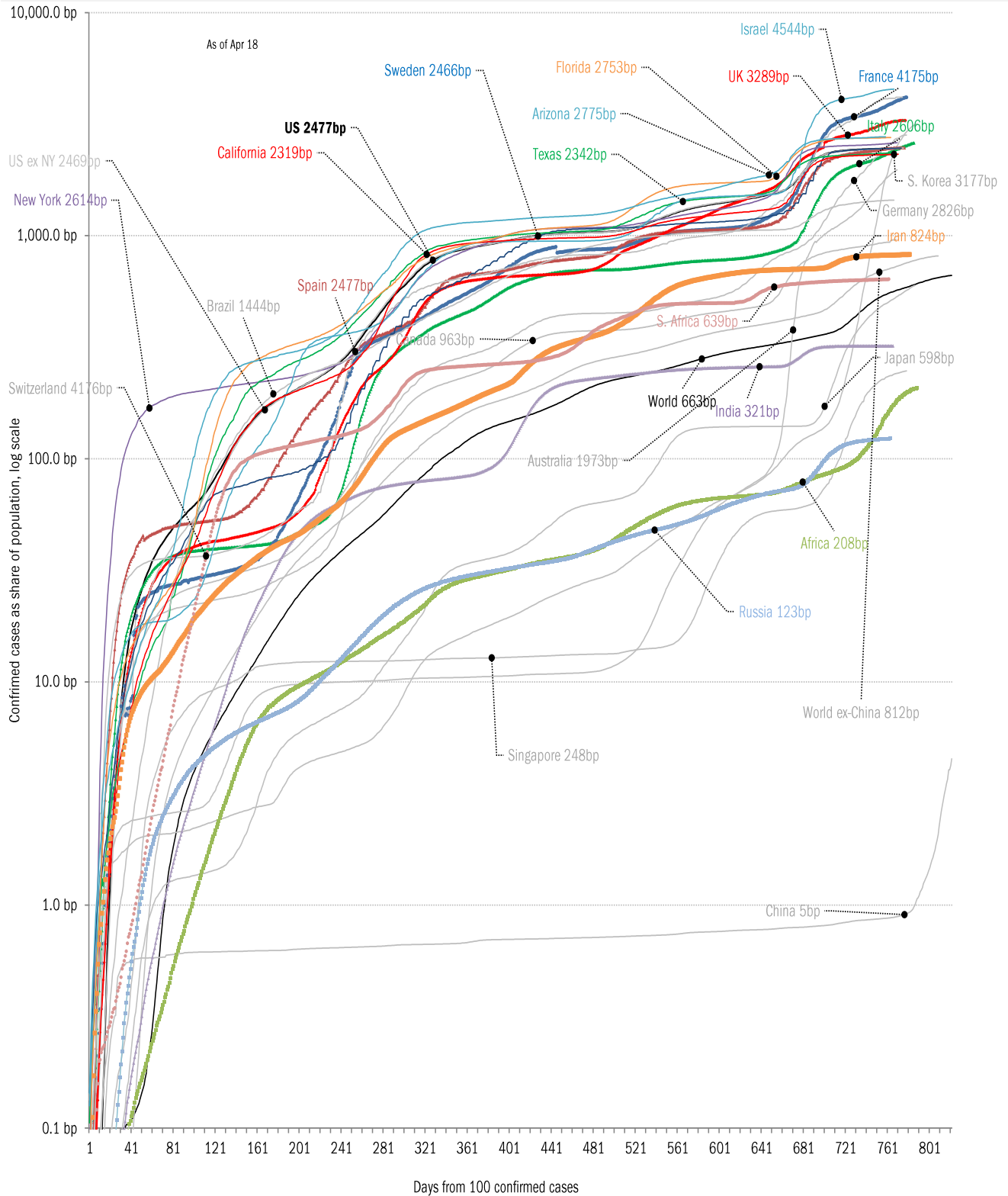
Johan Anderberg
UnHerd
April 12, 2022

Meme of the day



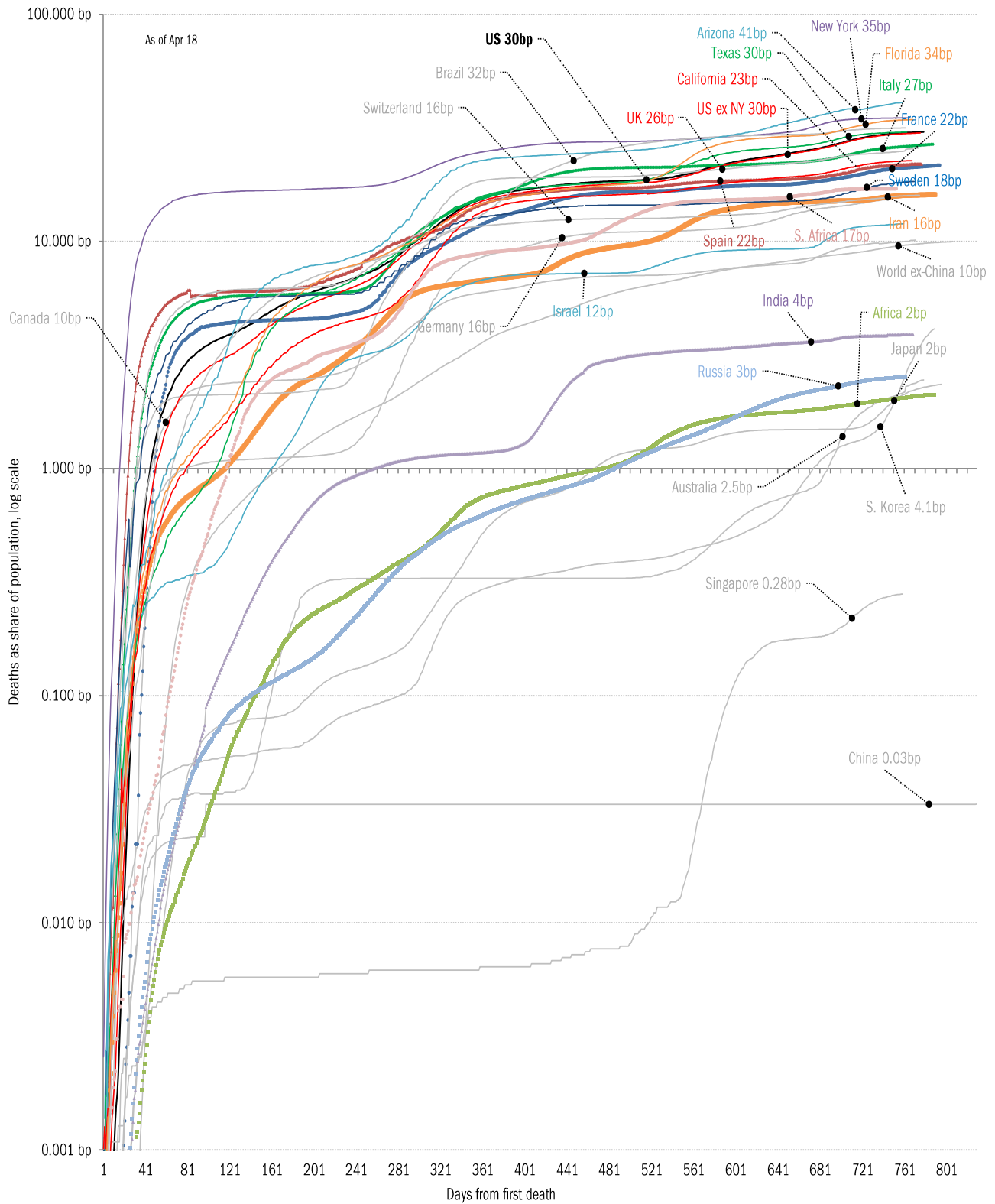
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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](#), TrendMacro calculations

The coronavirus mortality accelerometer ... tracking the world's fatality curves
Share of deceased population from day of first fatality, log scale

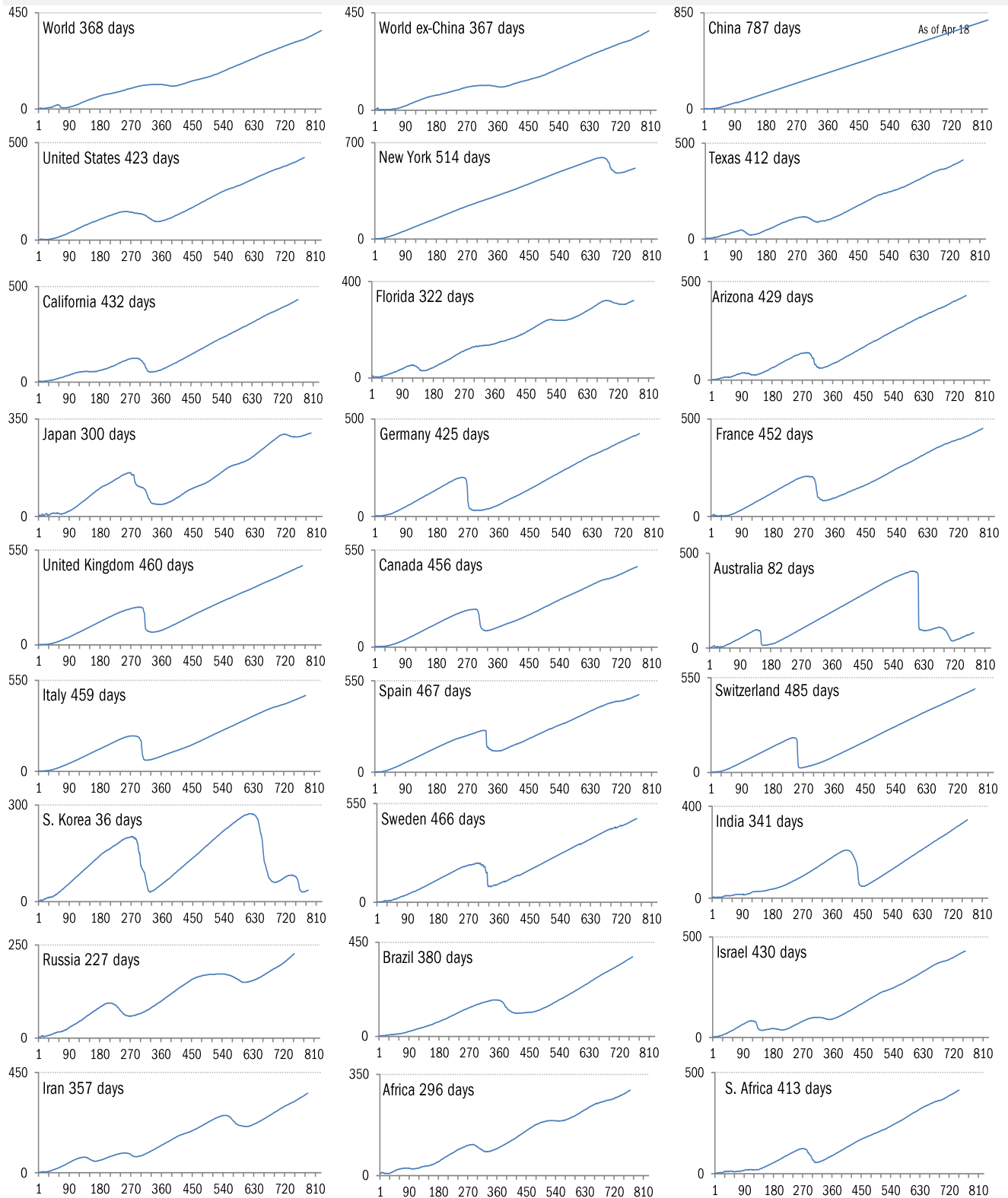


Source: [Johns Hopkins](#), TrendMacro calculations

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

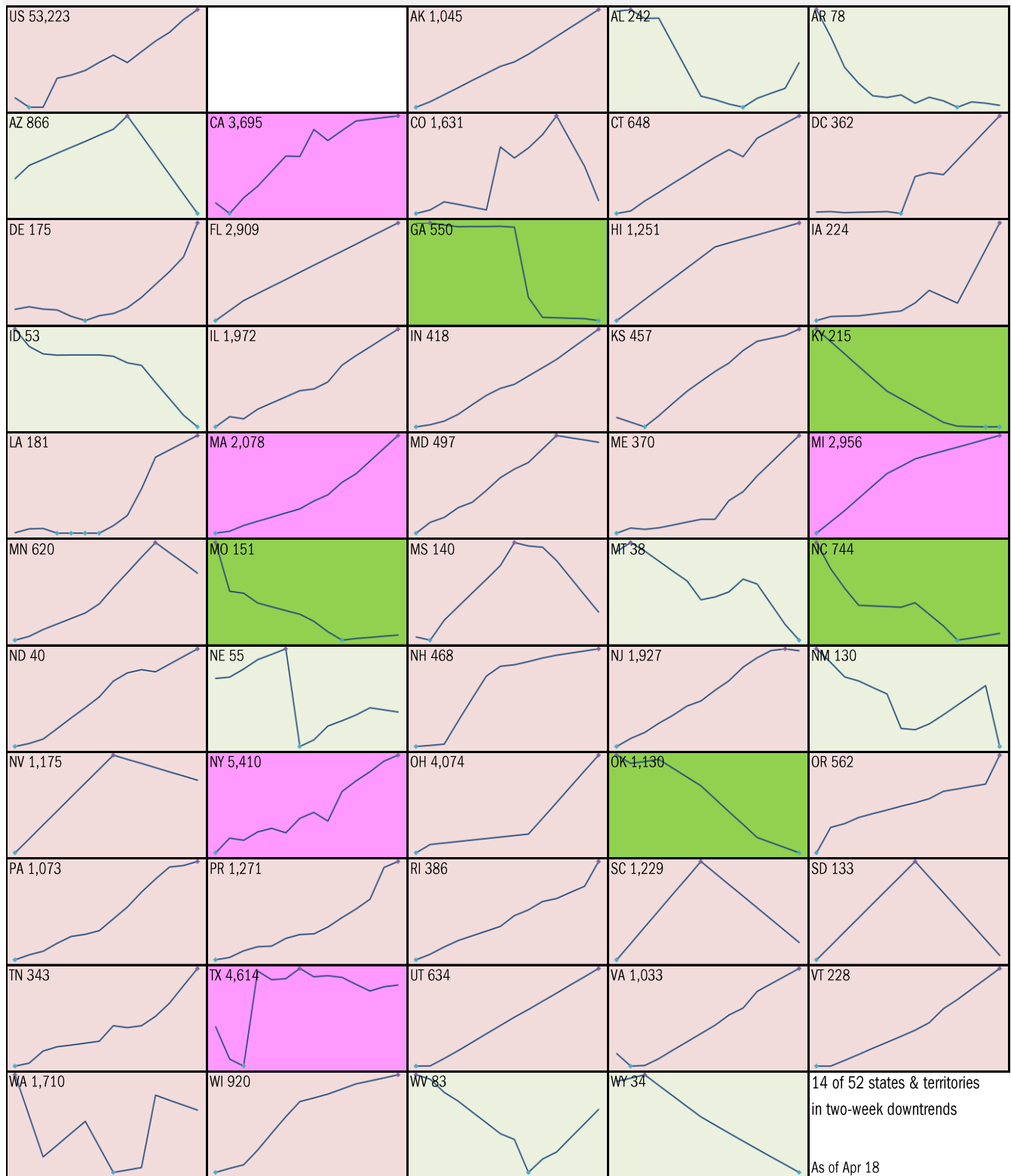


Source: [Johns Hopkins](#), TrendMacro calculations

14-day 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

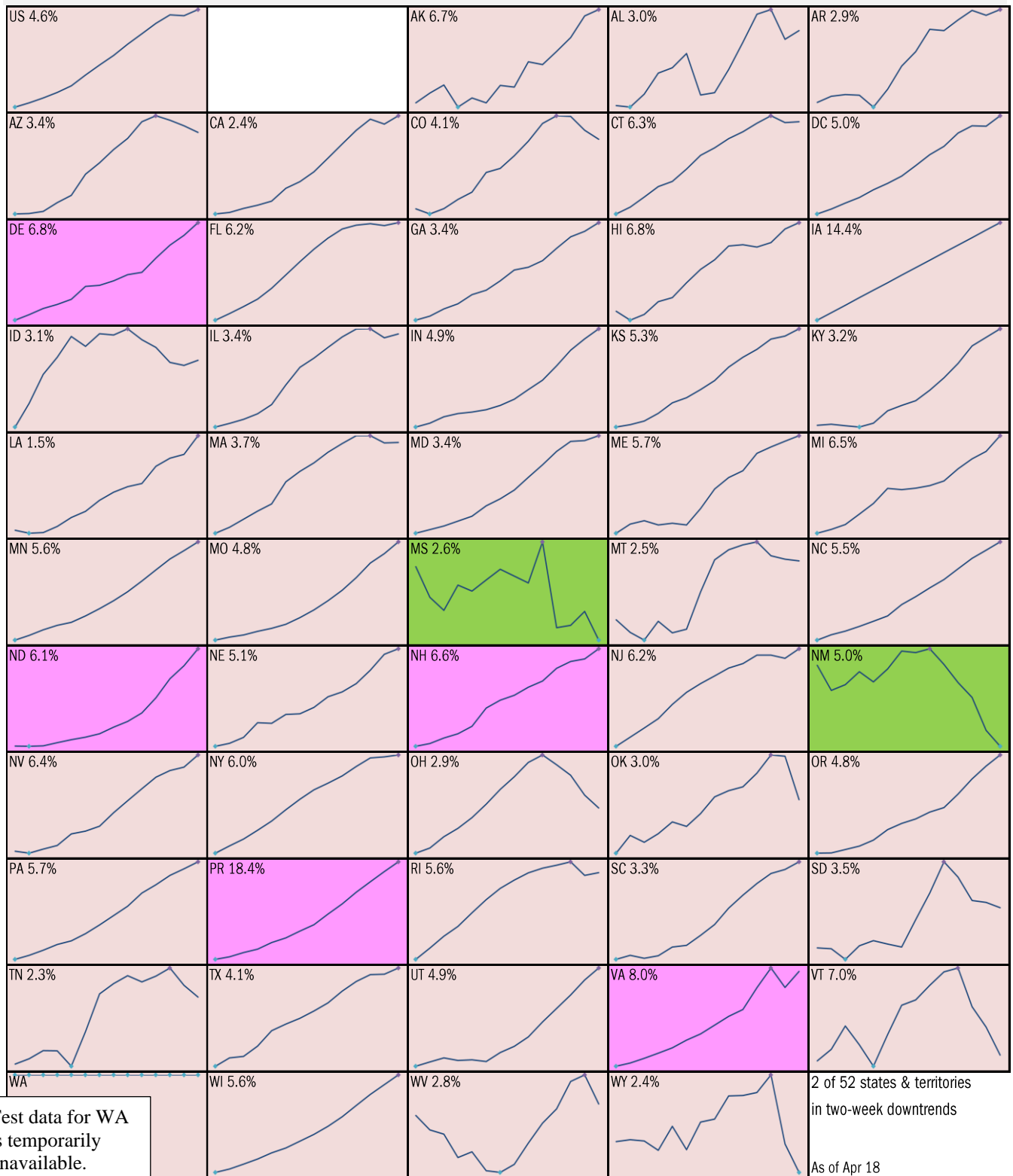


Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

14-day trajectory in **test-positivity ratio**

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

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

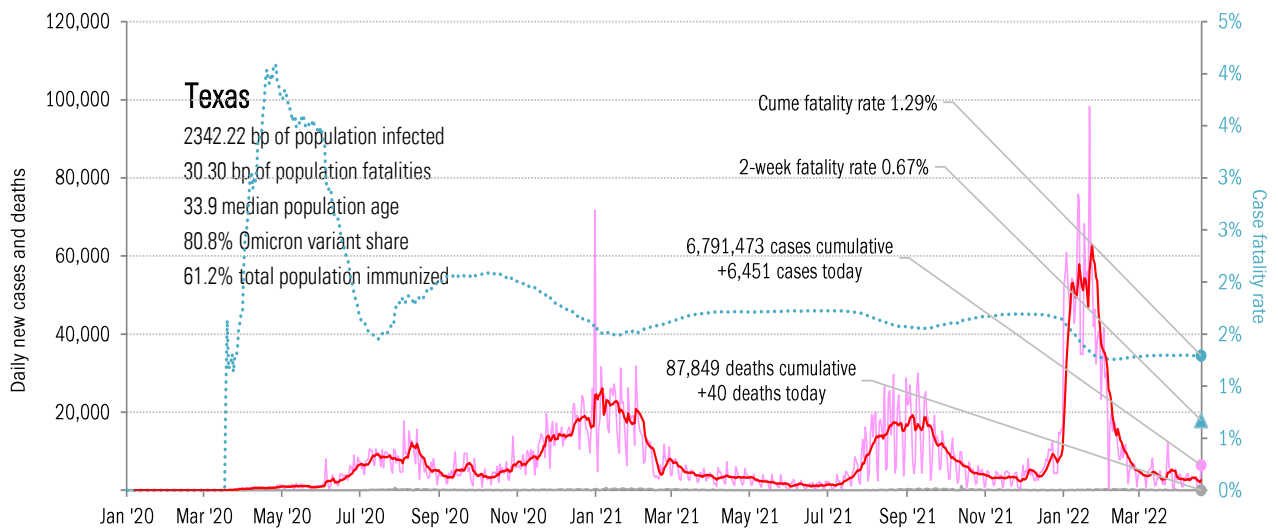
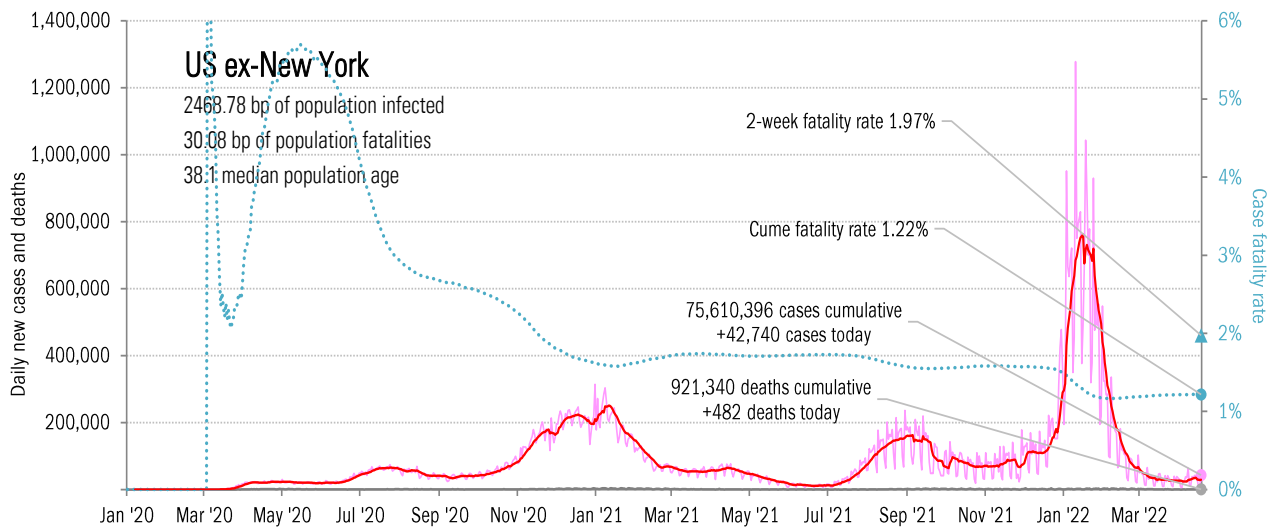
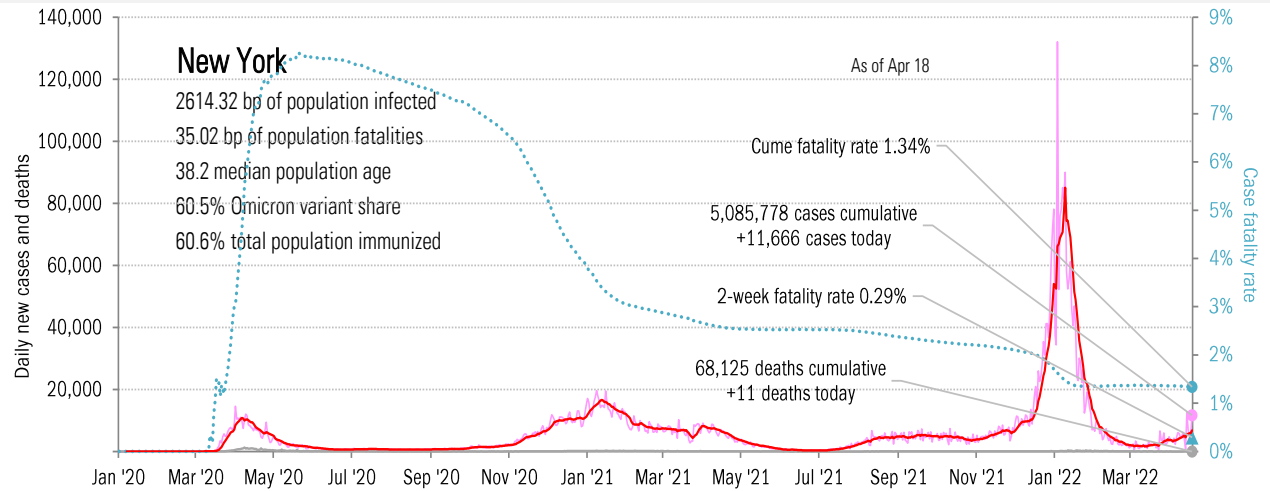


Test data for WA is temporarily unavailable.

Source: [Covid Act Now](https://www.covidactnow.com), TrendMacro calculations

From Ground Zero to the Rio Grande

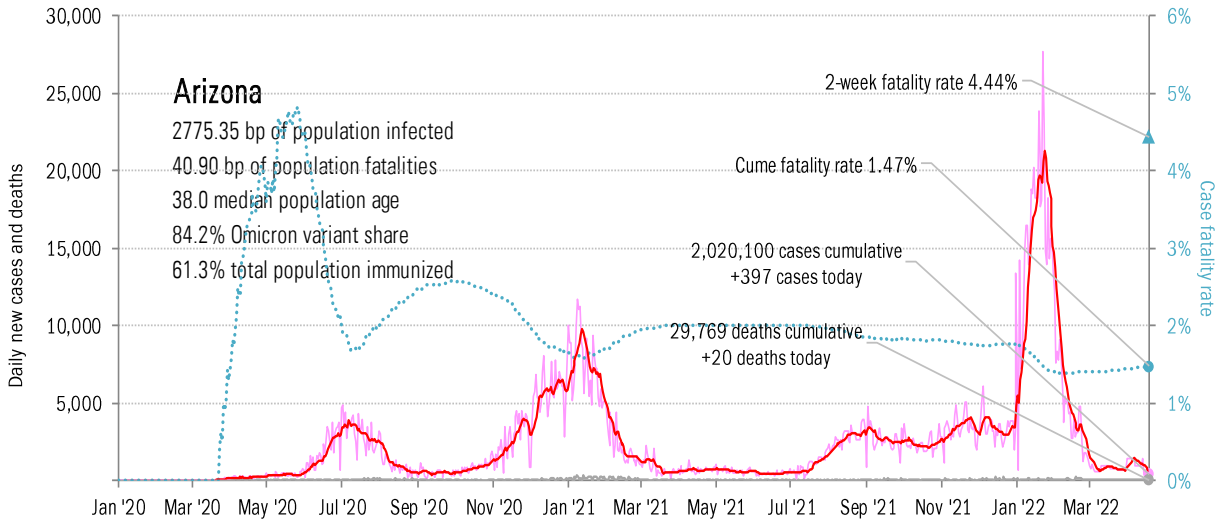
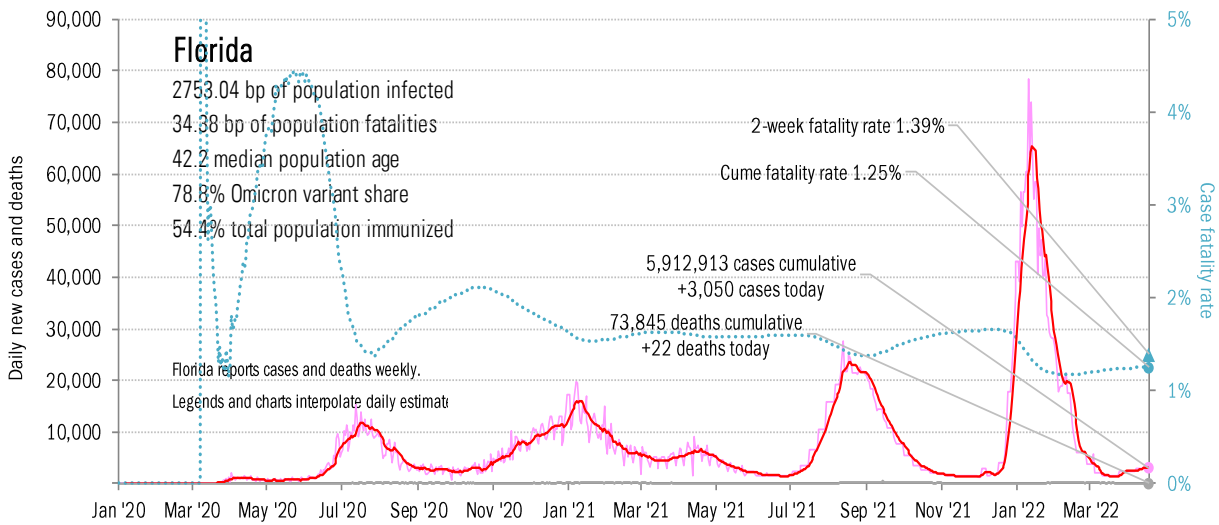
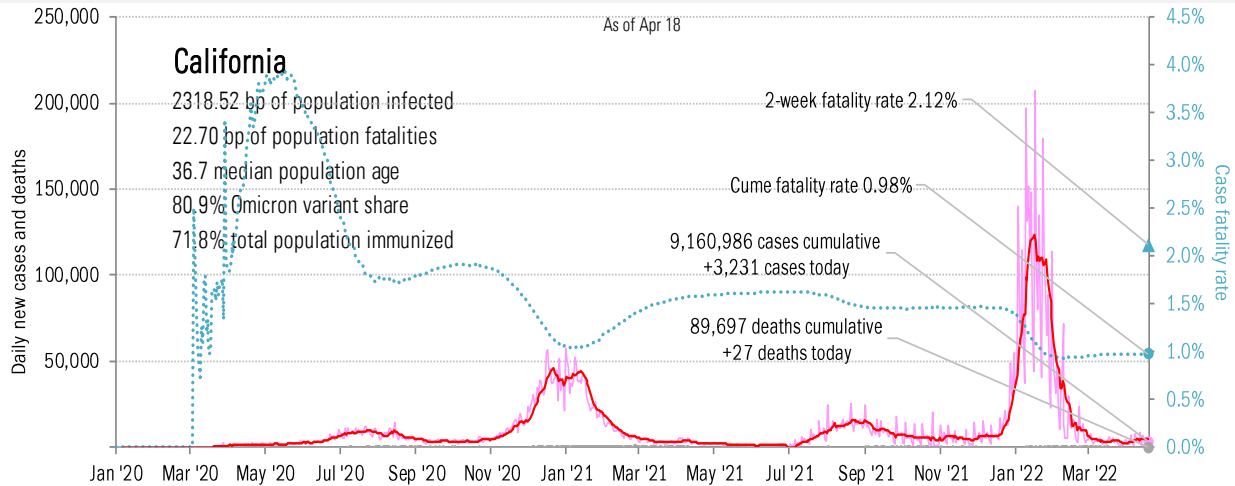
Cases: 7-day average and daily Deaths: Daily



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

The sun-belt hot-spot states

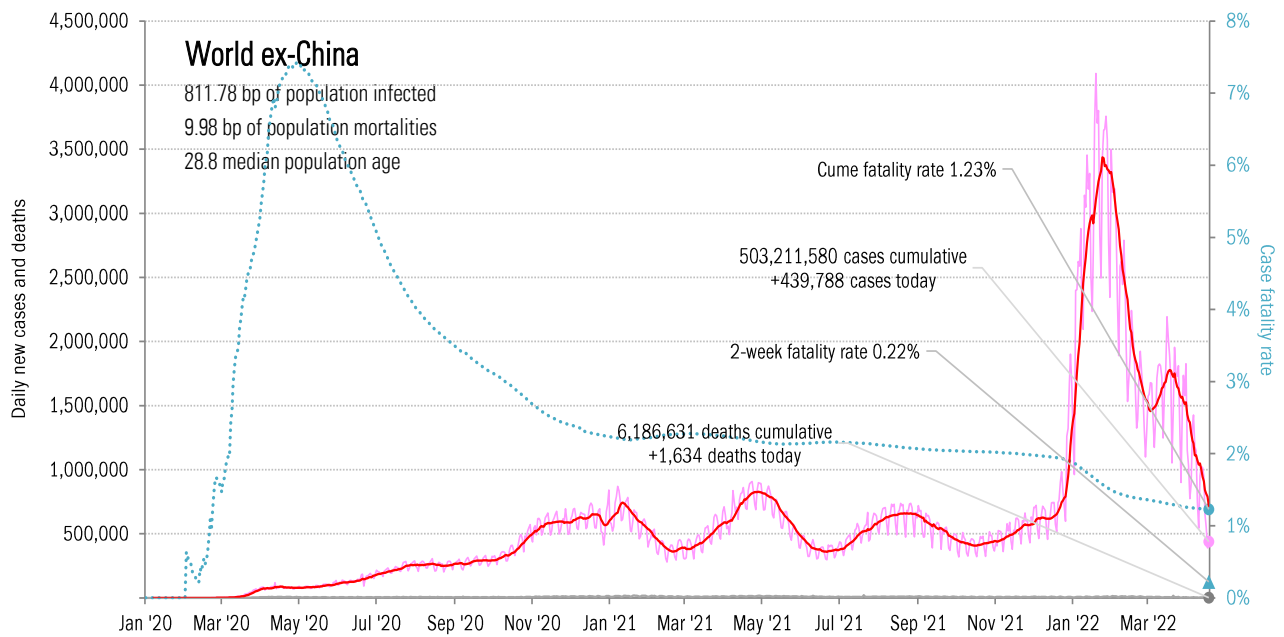
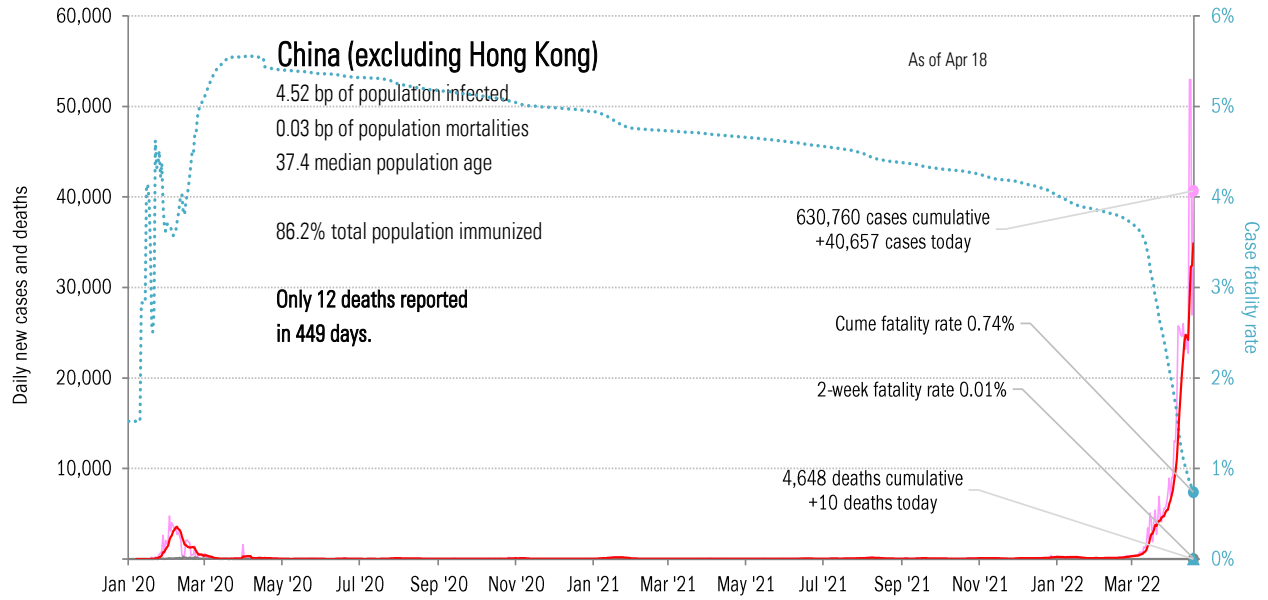
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

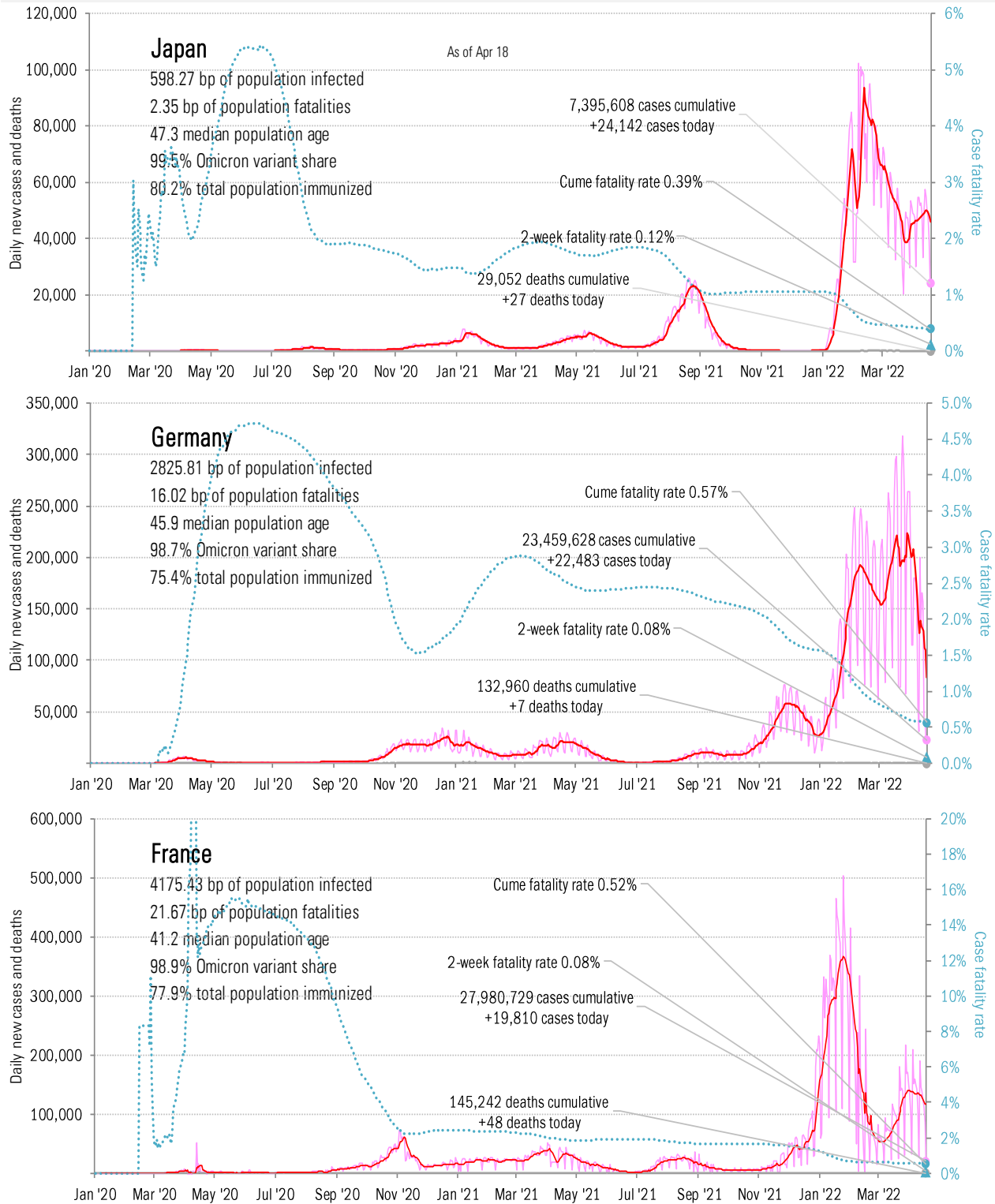
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

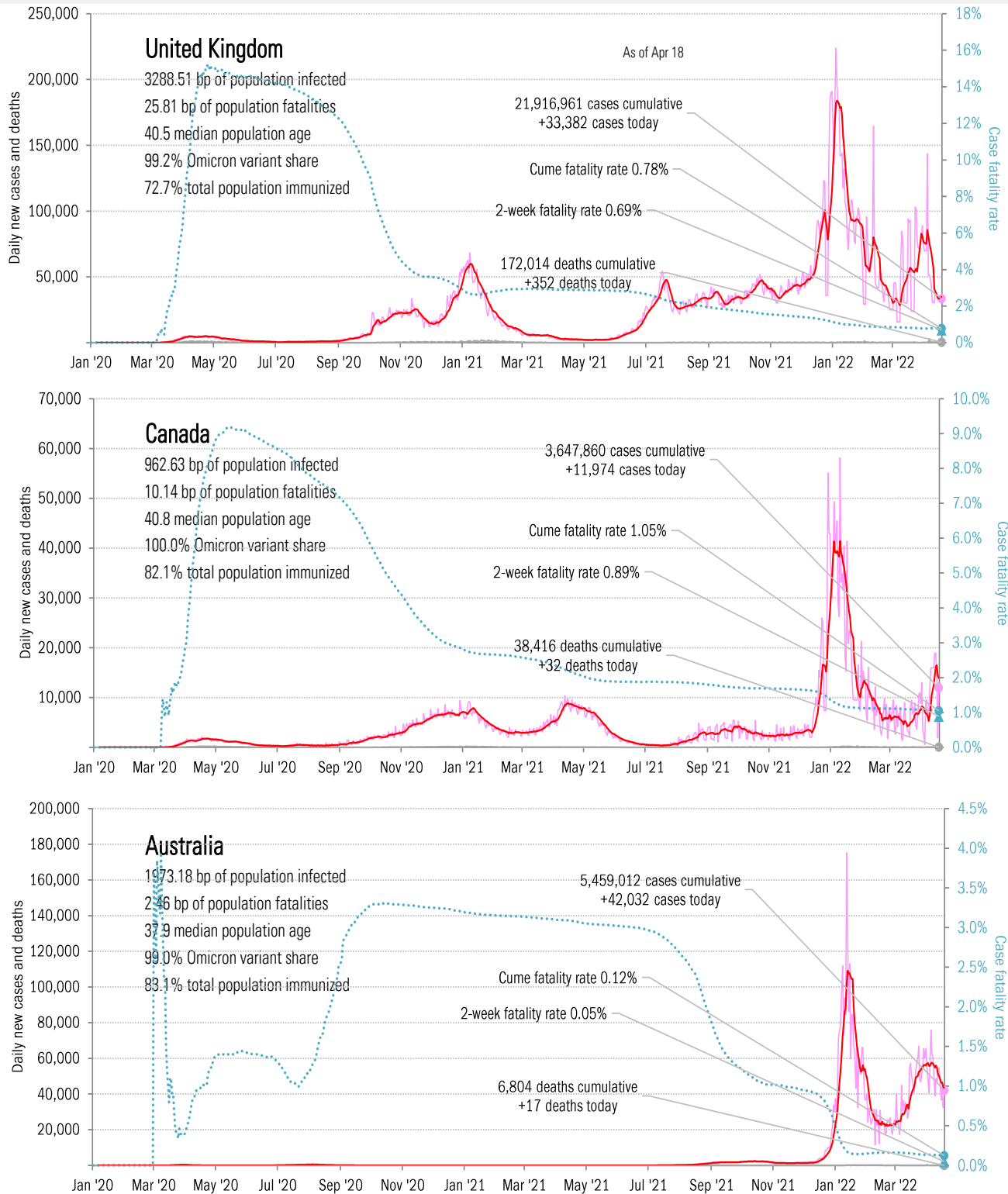
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

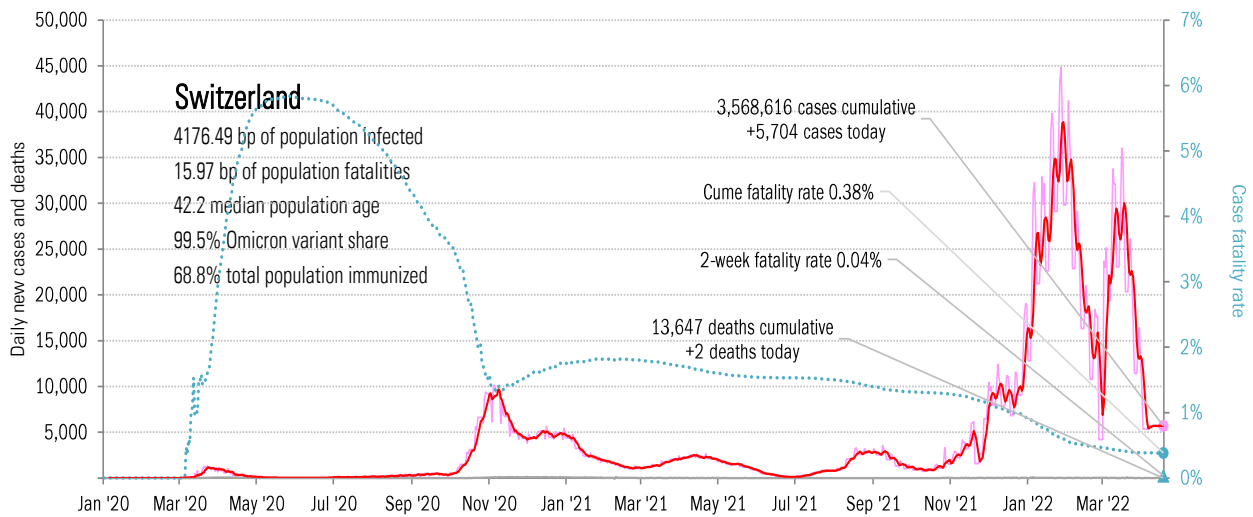
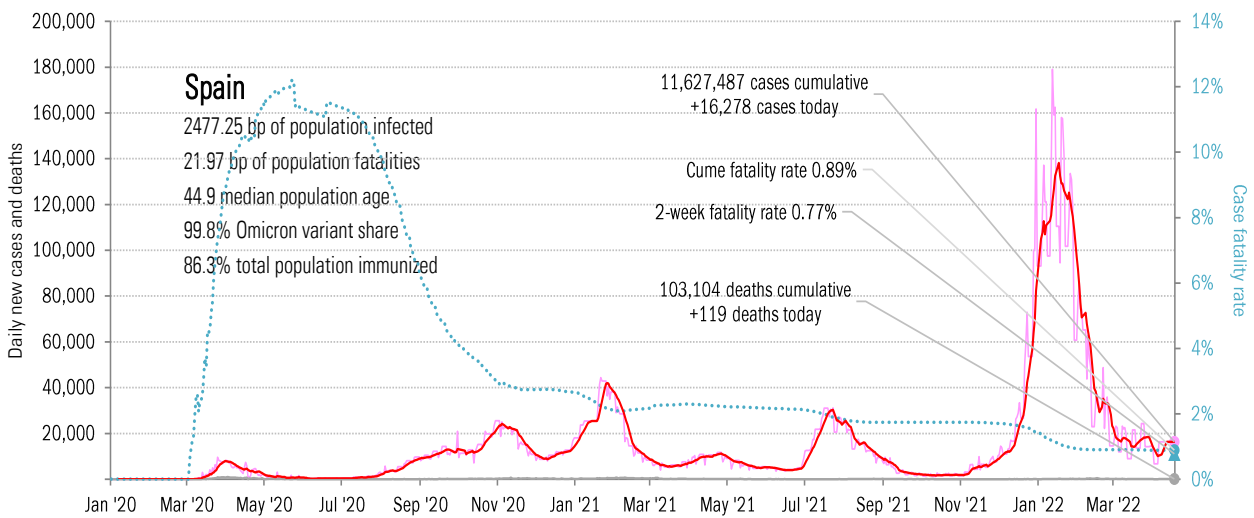
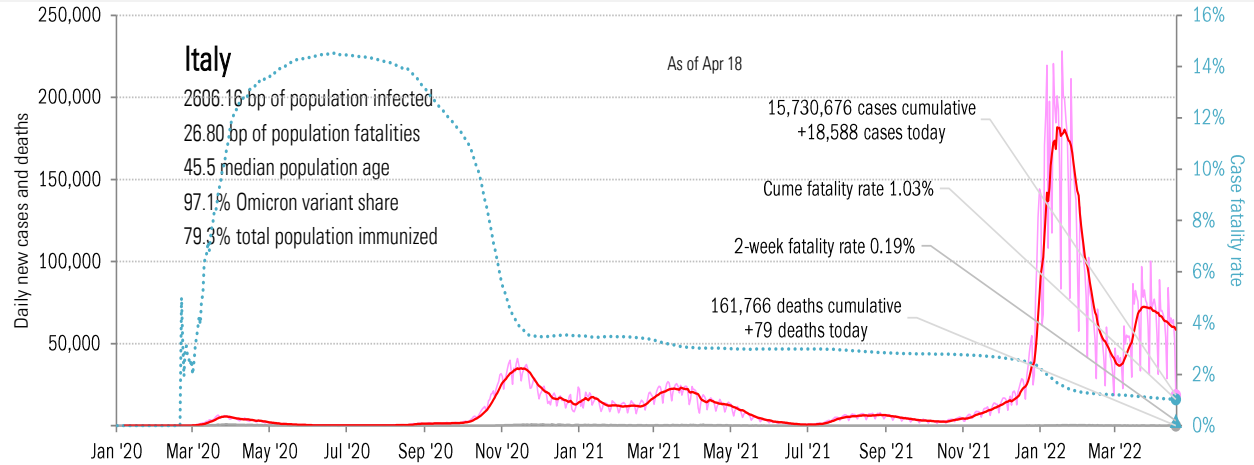
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

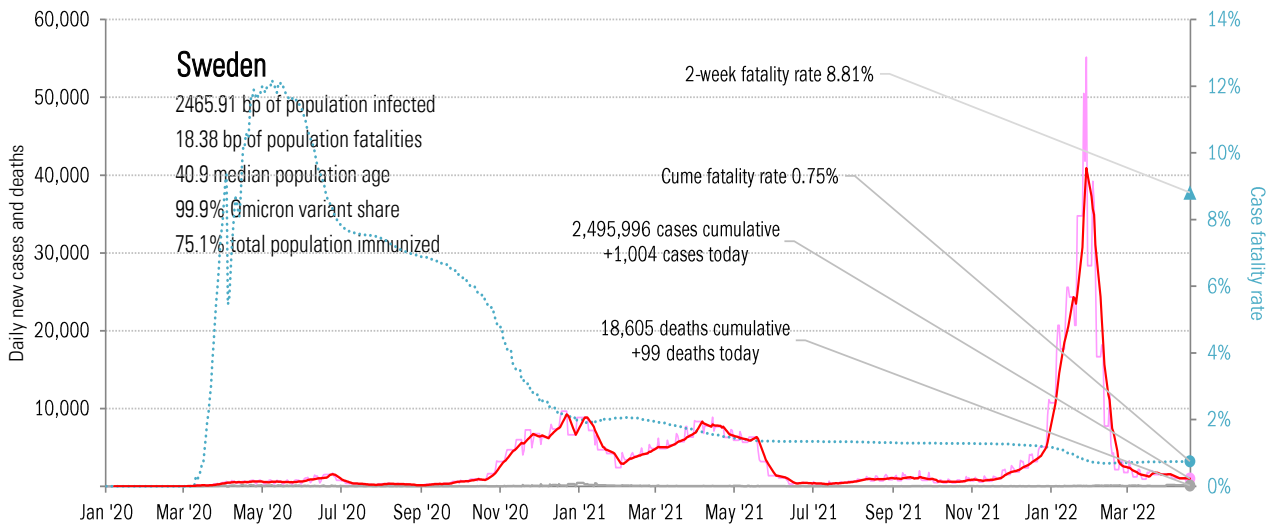
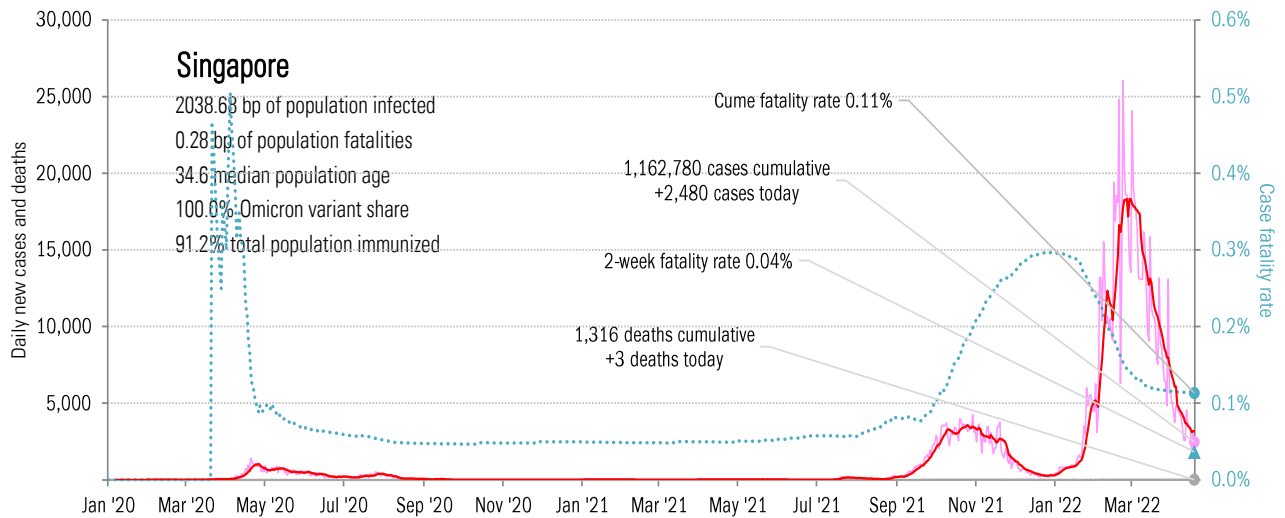
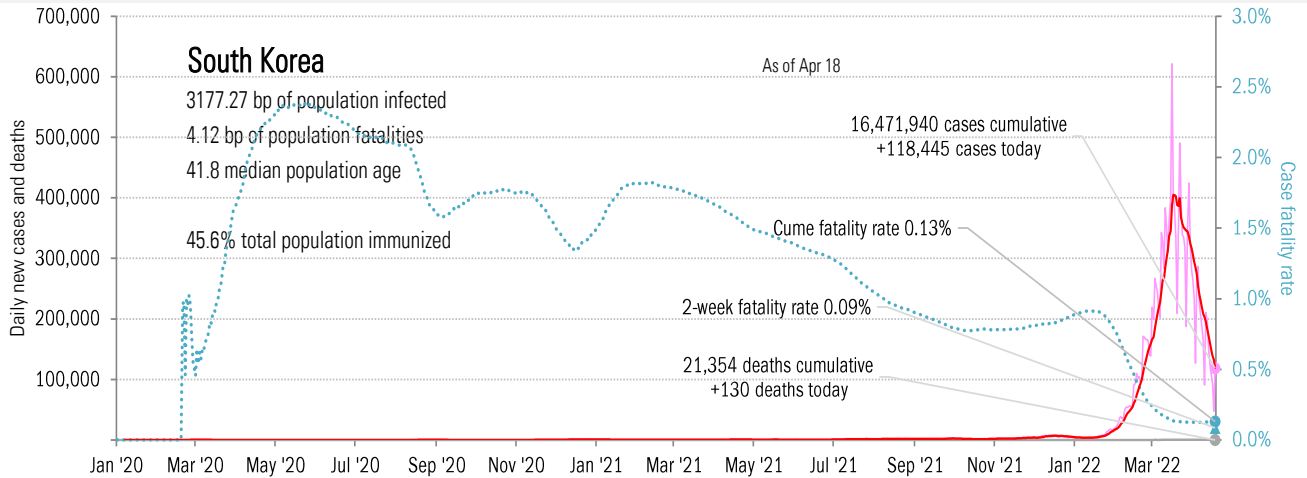
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

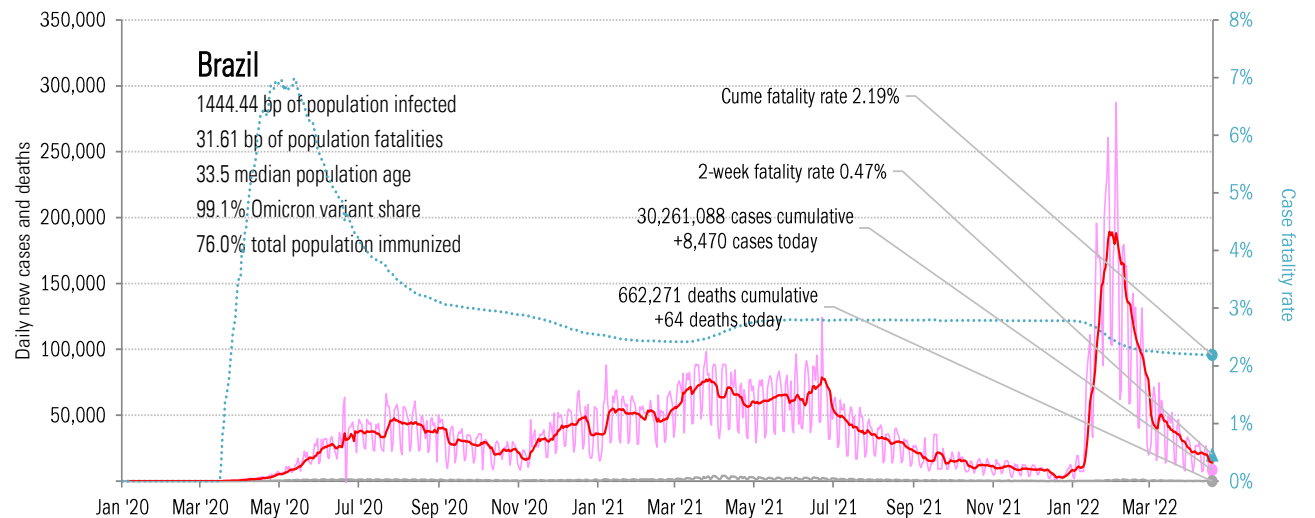
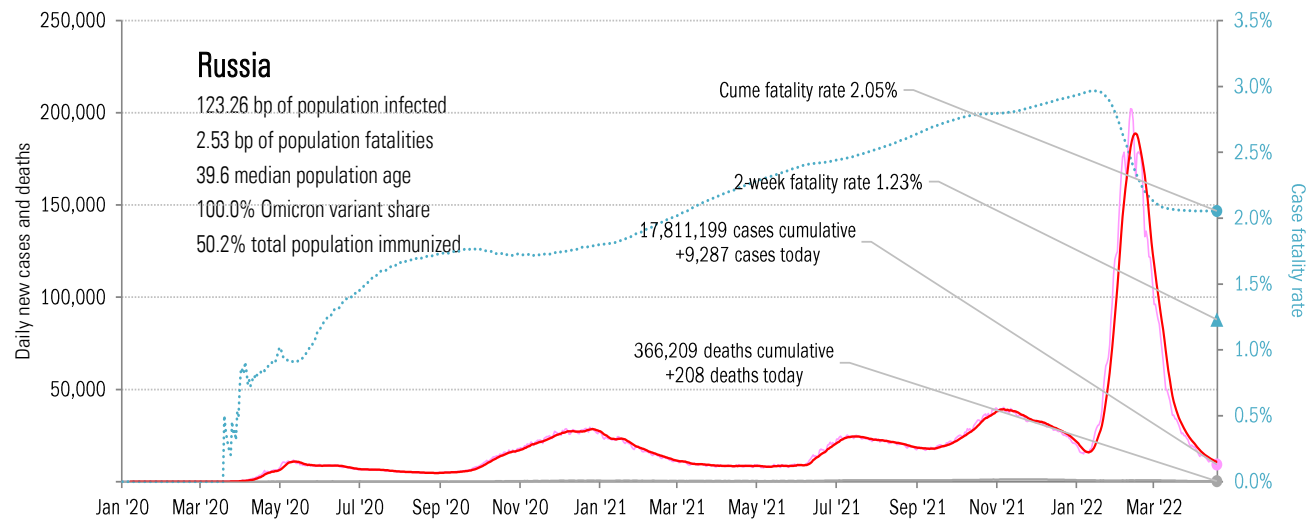
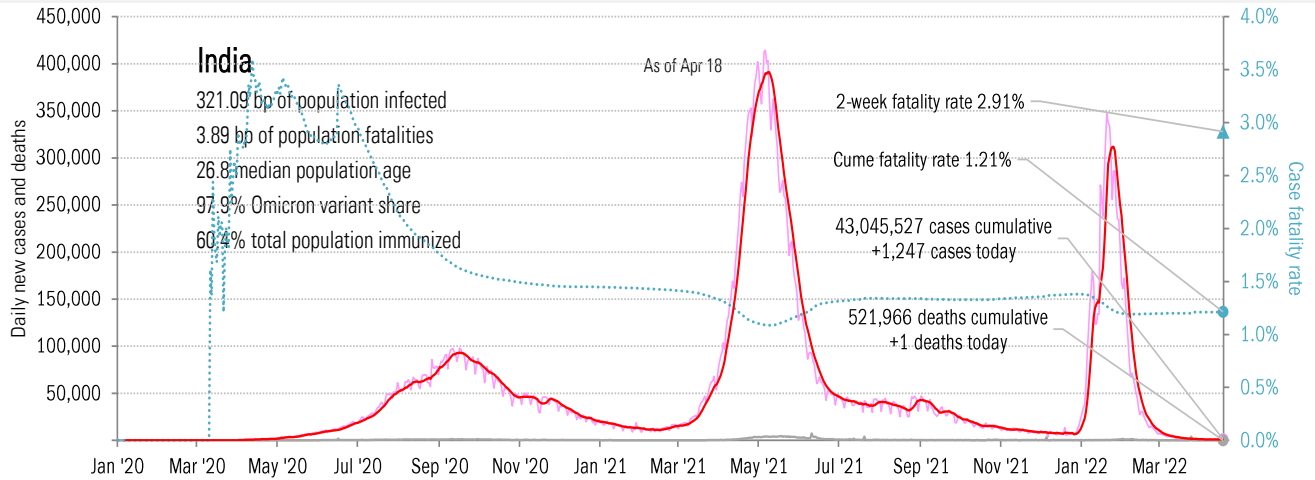
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

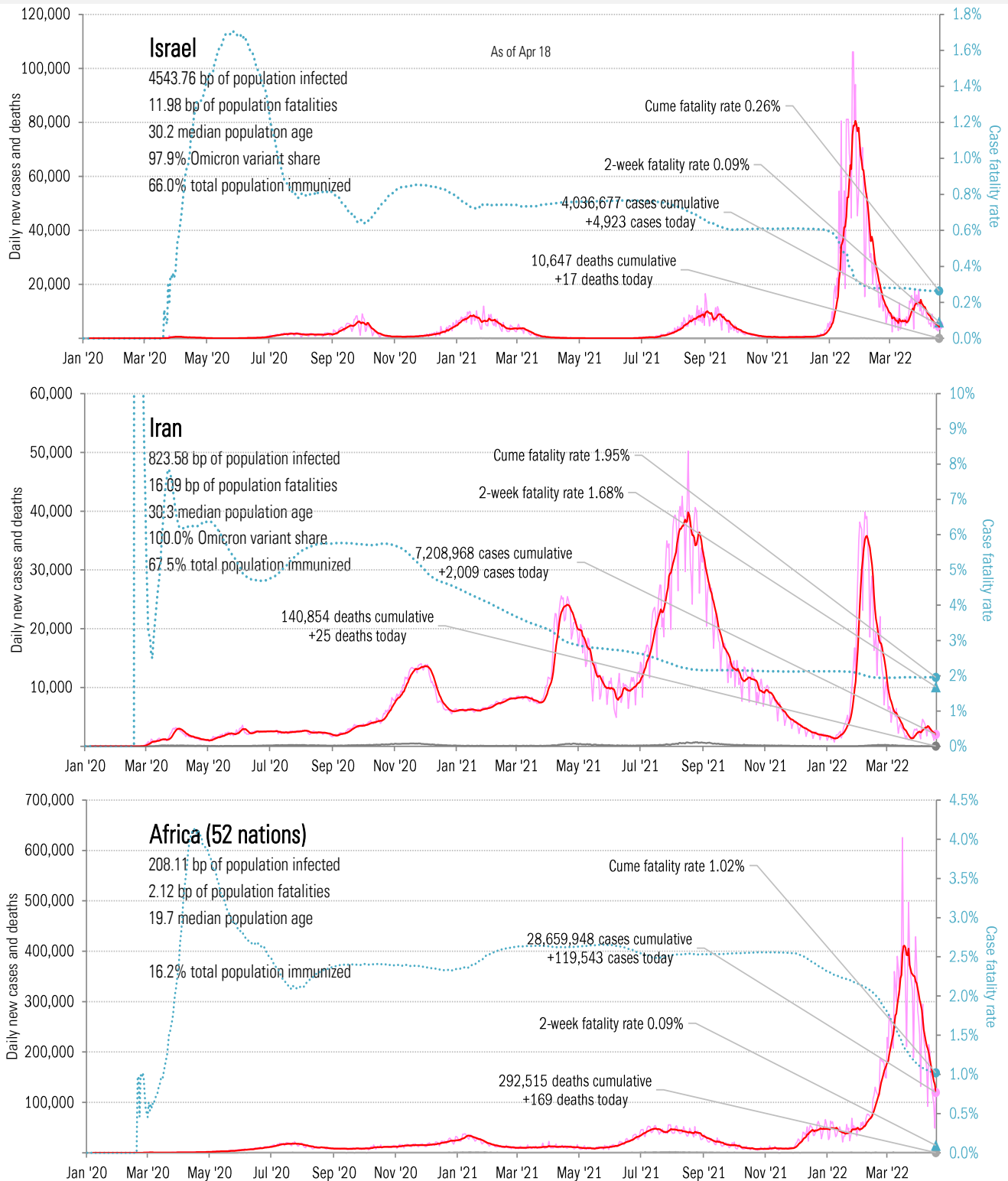
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

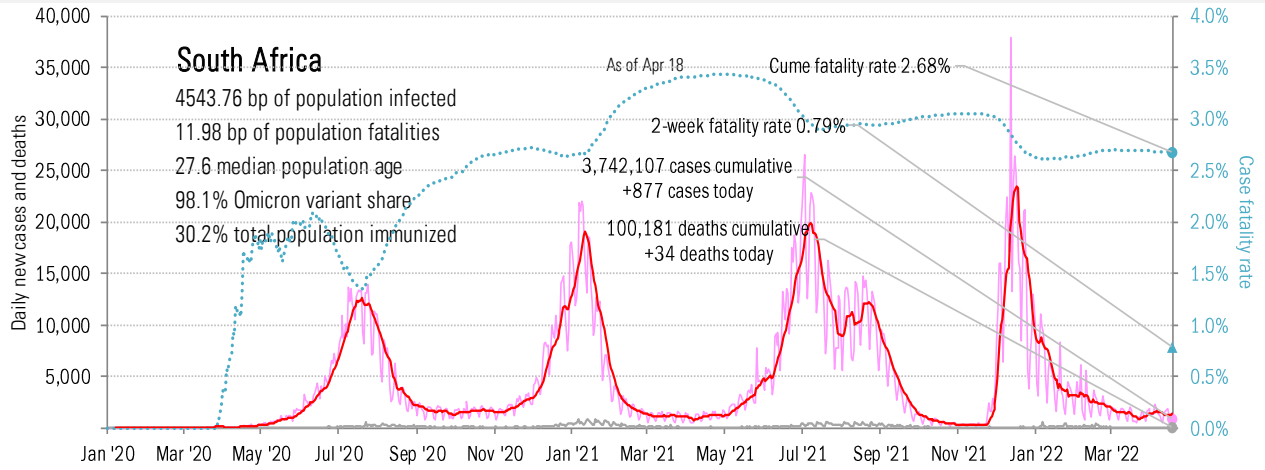
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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