Trend Macrolytics, LLC
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# Data Insights: Covid-2019 Monitor

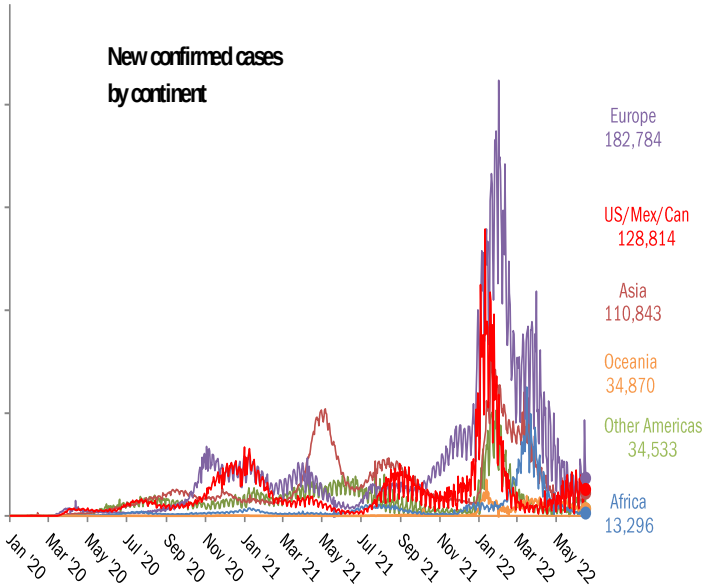
Friday, June 17, 2022

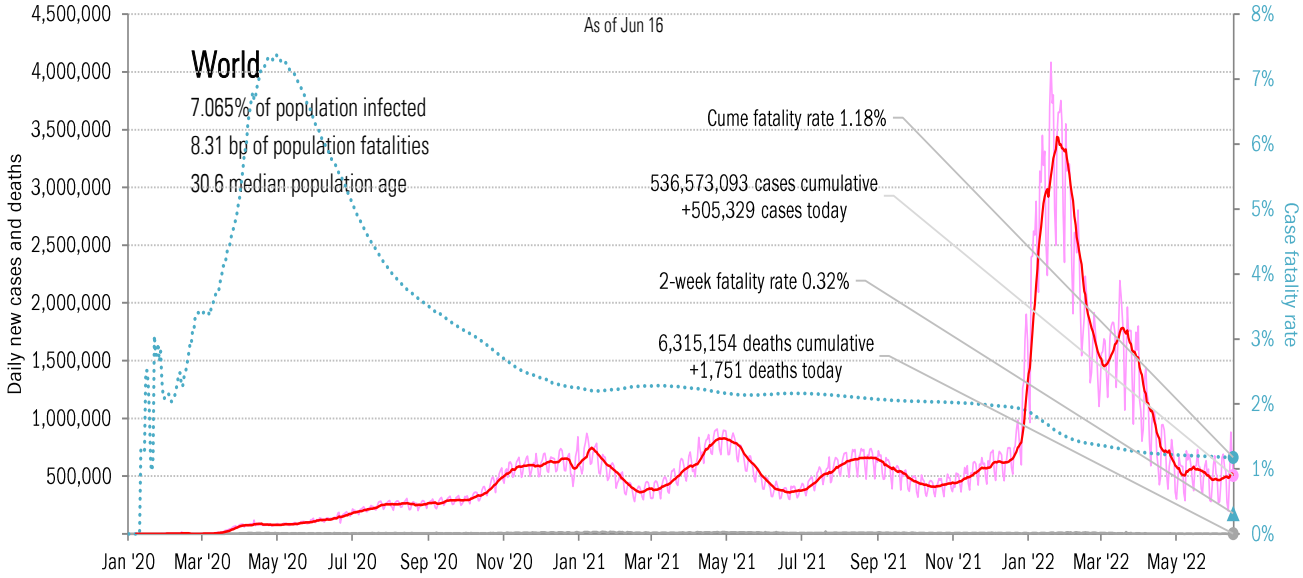
## The global scorecard

Cases: 7-day average and daily  Deaths: Daily

**The worst ten countries**

| New cases | | New Deaths | |
|---|---|---|---|
| United States | 116,634 | United States | 478 |
| Taiwan* | 63,133 | Oman | 368 |
| France | 53,081 | Taiwan* | 168 |
| Italy | 37,068 | Canada | 96 |
| Australia | 29,765 | Mexico | 69 |
| Germany | 28,118 | Italy | 64 |
| Japan | 15,486 | Russia | 64 |
| Colombia | 13,810 | United Kingdom | 61 |
| United Kingdom | 13,076 | Finland | 57 |
| Chile | 12,975 | Australia | 51 |
| | 383,146 | | 1,476 |
| World | 505,329 | World | 1,751 |
| Top ten | 76% | Top ten | 84% |




Source: Johns Hopkins, TrendMacro calculations

**For more information contact us:**
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## The US scorecard

Cases: 7-day average and daily  Deaths: Daily

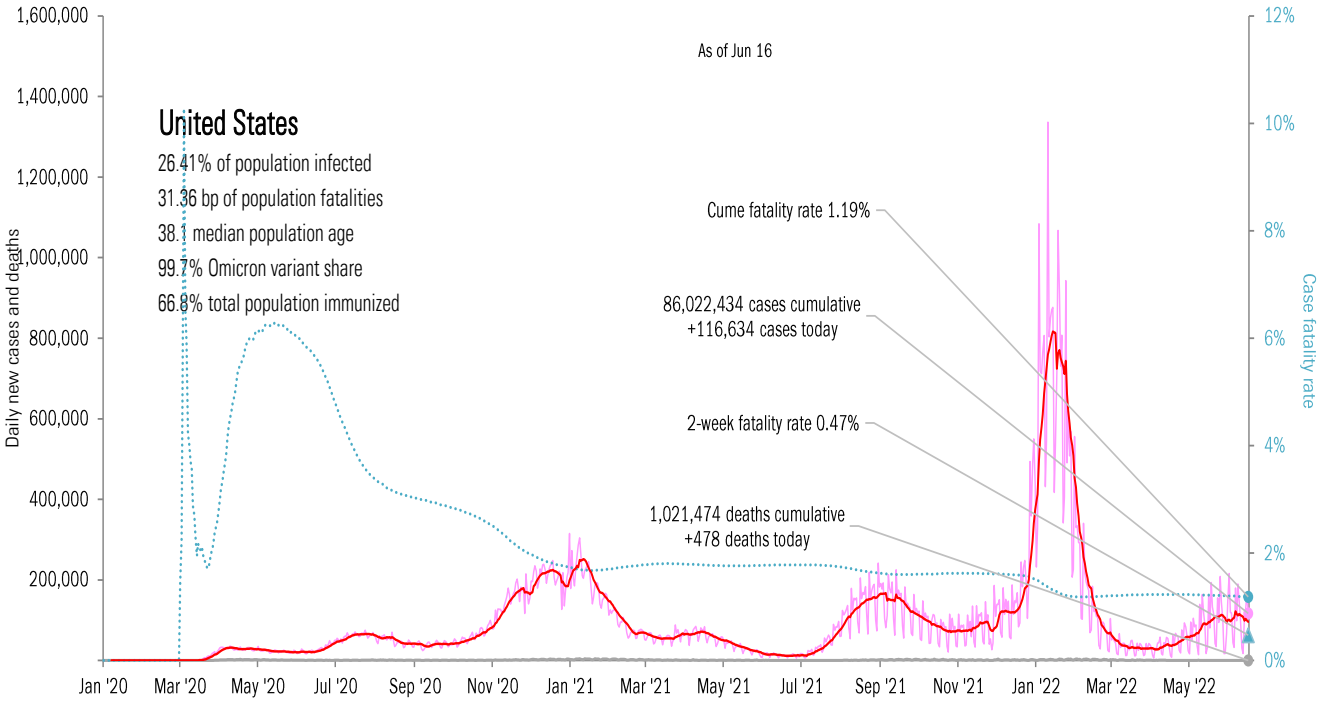
### The ten worst US states

| New cases | | New deaths | | New in hospital | | Cume cases | | Cume deaths | | Cume in hospital | | Hospital use | | ICU use | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PA | 18,670 | PA | 167 | TX | 354 | CA | 9,861,896 | CA | 91,832 | TX | 498,789 | MD | 95% | RI | 92% |
| OH | 16,169 | FL | 38 | FL | 631 | TX | 7,058,321 | TX | 88,137 | CA | 442,393 | RI | 93% | VT | 86% |
| FL | 10,612 | NY | 31 | GA | 151 | FL | 6,305,868 | FL | 75,126 | FL | 434,671 | MA | 86% | WA | 83% |
| TX | 8,468 | IL | 24 | AZ | 117 | NY | 5,536,023 | NY | 69,418 | NY | 267,044 | WA | 85% | TX | 83% |
| UT | 6,522 | NJ | 16 | WA | 97 | IL | 3,376,596 | PA | 45,580 | GA | 208,004 | NH | 85% | AL | 82% |
| NY | 6,190 | CO | 14 | MS | 35 | PA | 2,975,031 | OH | 38,657 | OH | 197,781 | MN | 84% | AK | 81% |
| IL | 5,334 | UT | 13 | WI | 83 | NC | 2,823,979 | IL | 38,392 | PA | 184,754 | GA | 83% | NH | 81% |
| CA | 4,478 | CA | 11 | UT | 49 | OH | 2,815,069 | GA | 38,360 | IL | 165,979 | MO | 83% | NC | 80% |
| PR | 3,714 | MA | 9 | AL | 77 | GA | 2,608,172 | MI | 36,675 | MI | 148,525 | PA | 83% | DE | 80% |
| NJ | 3,197 | MD | 9 | KS | 35 | MI | 2,581,397 | NJ | 33,912 | KY | 135,126 | DE | 82% | GA | 79% |
| | 83,354 | | 332 | | 1,629 | | 45,942,352 | | 556,089 | | 2,683,066 | | | | |
| All states | 116,634 | | 478 | | 4,580 | All states | 86,022,434 | | 1,021,474 | | 4,874,542 | All states | 70% | | 67% |
| Top ten | 71% | | 69% | | 36% | Top ten | 53% | | 55% | | 55% | Median | 76% | | 74% |

*Some states not reporting*

### Five most improved US states

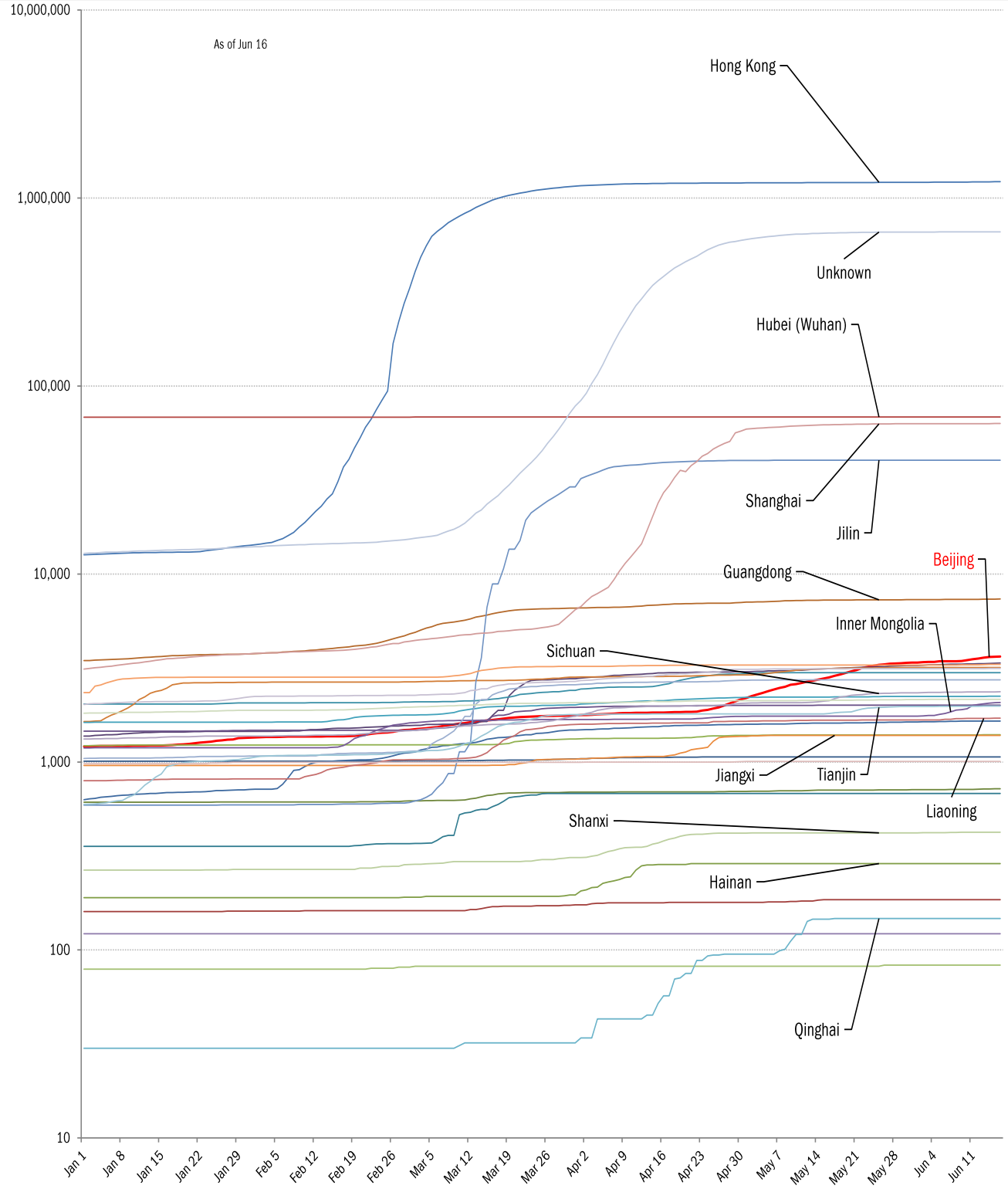
| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | | Most pop immunity growth | |
|---|---|---|---|---|---|---|---|
| NC | -24,464 | TX | -416 | CA | -92 | IN | +100 bp |
| GA | -19,315 | MI | -137 | PA | -74 | AK | +10 bp |
| MI | -15,578 | FL | -96 | VA | -27 | CA | +10 bp |
| NV | -9,129 | GA | -70 | ID | -24 | CO | +10 bp |
| HI | -7,199 | NC | -46 | WV | -23 | GA | +10 bp |




Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

## **China provincial** coronavirus case accelerometer… tracking the "zero Covid" curves

*Cumulative reported cases this year, log scale: flat line indicates "zero Covid"*



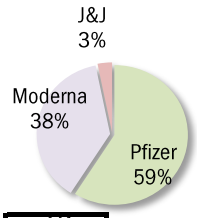

Source: Johns Hopkins, TrendMacro calculations

# Rolling out the vaccines in the US and the world

| Administered | Cumulative | | | | Today |
|---|---|---|---|---|---|
| Doses | 607,818,435 | | | | +0.292 million |
| of which boosters | 106,058,896 | | | | +0.073 million |
| | One dose | % Pop | Immune | % pop | New immune today |
| Total population | 267,065,137 | 80% | 228,268,627 | 68% | +0.041 million |
| Age 12 to 17 | 17,865,917 | 71% | 15,308,566 | 60% | +0.004 million |
| Age 18 to 64 | 179,337,039 | 88% | 152,564,958 | 75% | +0.021 million |
| Age 65 and over | 59,261,185 | 100% | 51,803,223 | 95% | +0.010 million |

| Immunity | Full | Partial |
|---|---|---|
| US | 66.8% | 78.1% |
| UK | 73.4% | 78.5% |
| France | 78.4% | 80.7% |
| Spain | 86.7% | 88.2% |
| Germany | 76.9% | 77.0% |
| Italy | 79.4% | 84.1% |
| Australia | 83.9% | 86.6% |
| Israel | 66.1% | 72.2% |
| Canada | 82.6% | 86.1% |
| Japan | 81.1% | 82.3% |
| Africa | 18.3% | 23.7% |
| India | 64.8% | 72.8% |
| Brazil | 78.6% | 86.2% |
| China | 87.1% | 89.4% |

Global data differs due to sources, timing




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

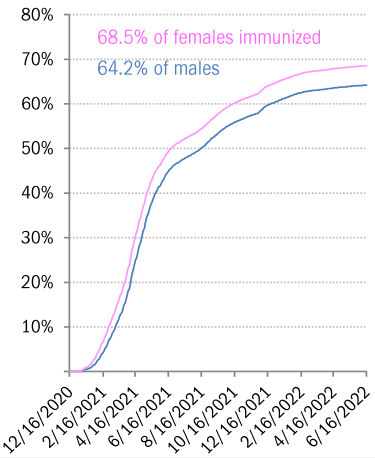
"Immunity" = two doses

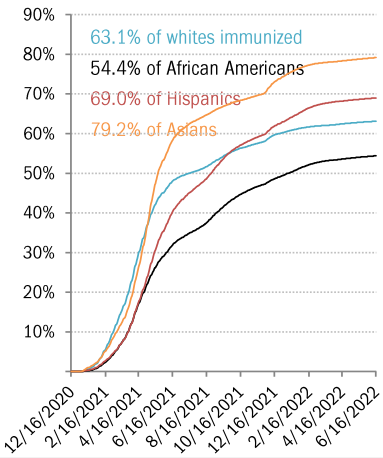
Best
Middle
Worst

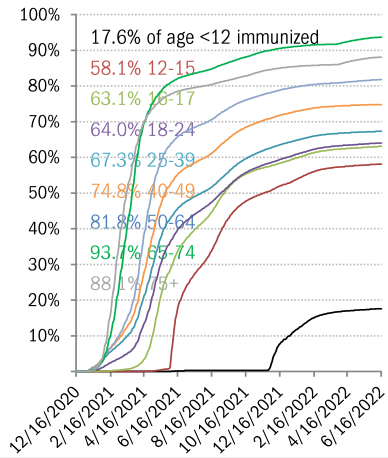
As of Jun 16

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | WI | | | | | ME |
| | | | | | 72.3% | | | | | 91.5% |
| | | | | | 66.0% | | | | | 80.3% |
| WA | ID | MT | ND | MN | IL | MI | | NY | VT | NH |
| 81.4% | 62.1% | 65.7% | 66.0% | 75.5% | 76.4% | 67.4% | | 90.9% | 94.3% | 89.2% |
| 73.1% | 55.8% | 57.2% | 55.9% | 69.6% | 69.1% | 60.6% | | 77.6% | 81.8% | 71.3% |
| OR | NV | WY | SD | IA | IN | OH | PA | NJ | MA | |
| 78.4% | 75.9% | 58.5% | 77.5% | 68.3% | 62.5% | 63.6% | 85.8% | 91.2% | 95.0% | |
| 70.1% | 61.4% | 51.3% | 62.4% | 62.4% | 56.3% | 58.7% | 69.4% | 76.3% | 79.8% | |
| CA | UT | CO | NE | MO | KY | WV | VA | MD | CT | RI |
| 82.7% | 72.5% | 79.9% | 70.7% | 66.6% | 66.6% | 65.4% | 86.4% | 87.2% | 95.0% | 95.0% |
| 72.8% | 64.6% | 70.8% | 64.0% | 56.6% | 57.8% | 58.0% | 73.9% | 76.3% | 80.0% | 83.6% |
| | AZ | NM | KS | AR | TN | NC | SC | DC | DE | |
| | 74.0% | 88.7% | 72.9% | 67.3% | 62.6% | 85.5% | 68.2% | 95.0% | 83.9% | |
| | 62.3% | 71.8% | 62.5% | 54.9% | 54.9% | 62.3% | 57.5% | 75.9% | 69.9% | |
| | | | OK | LA | MS | AL | GA | | | |
| | | | 71.7% | 61.4% | 60.0% | 63.1% | 65.9% | | | |
| | | | 57.8% | 53.8% | 52.2% | 51.5% | 55.3% | | | |
| HI | | | TX | | | | | FL | | PR |
| 88.0% | | | 74.1% | | | | | 80.0% | | 95.0% |
| 78.8% | | | 62.1% | | | | | 67.5% | | 83.5% |

## The demographics of US vaccination



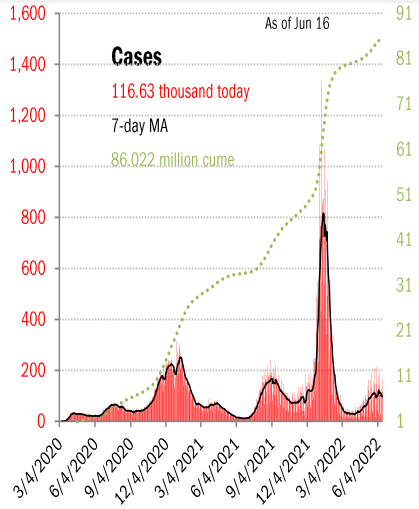



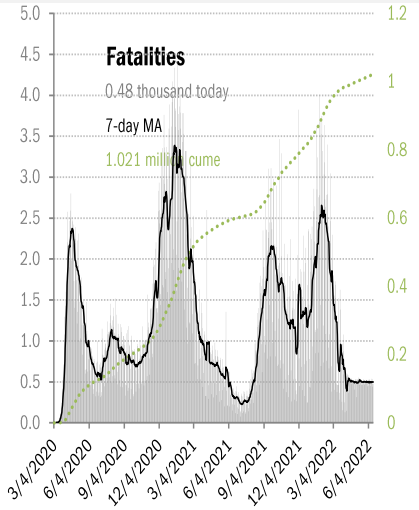



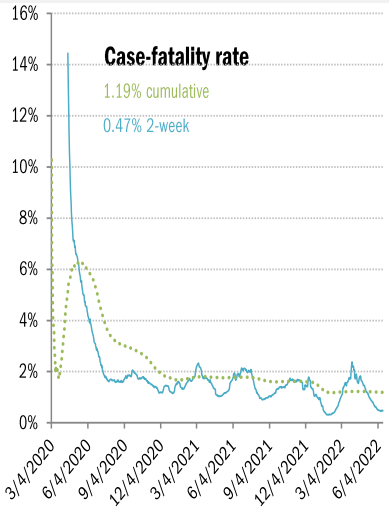

Source: CDC, CDC, Our World in Data, TrendMacro calculations

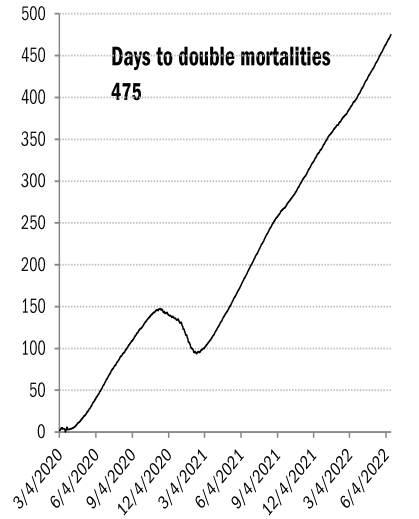
# US deep-dive

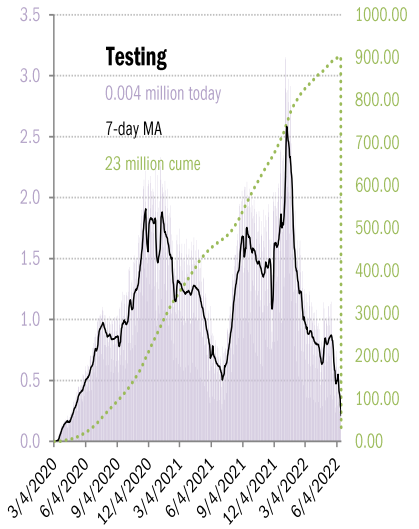
National and state-by-state data do not line up because of different sources

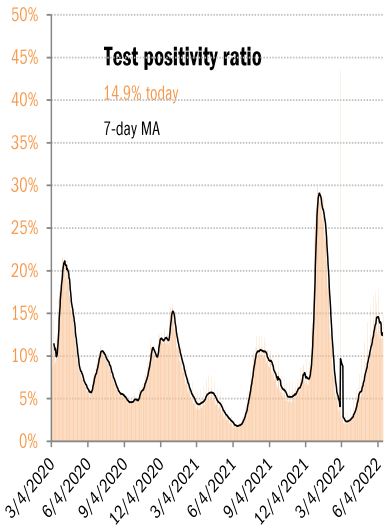


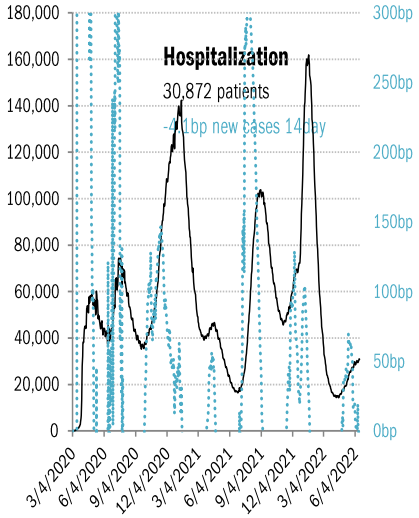



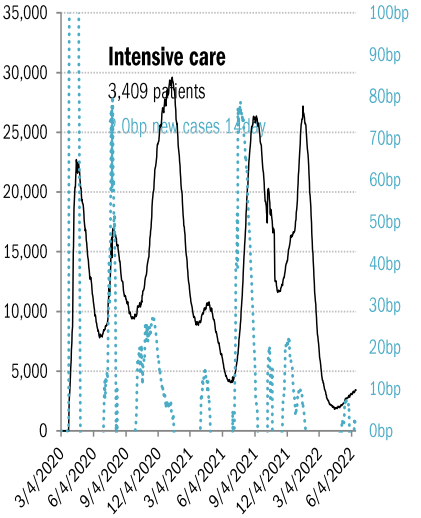



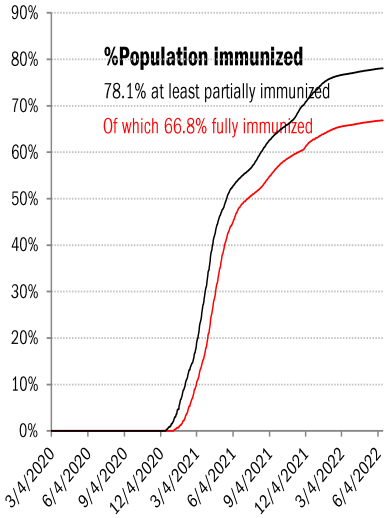



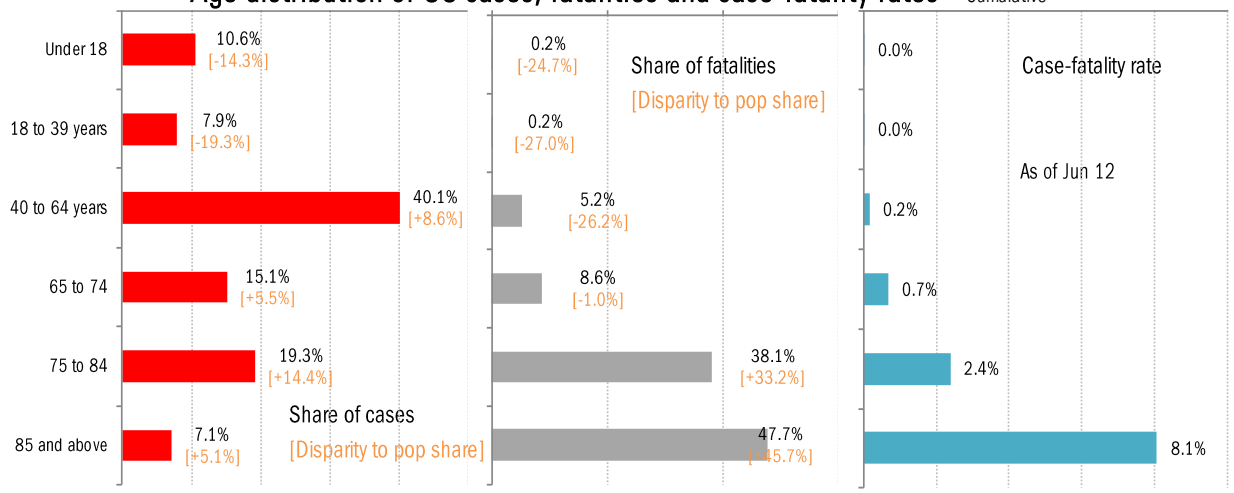

Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

*Updates weekly on Sunday, 1 week lag*

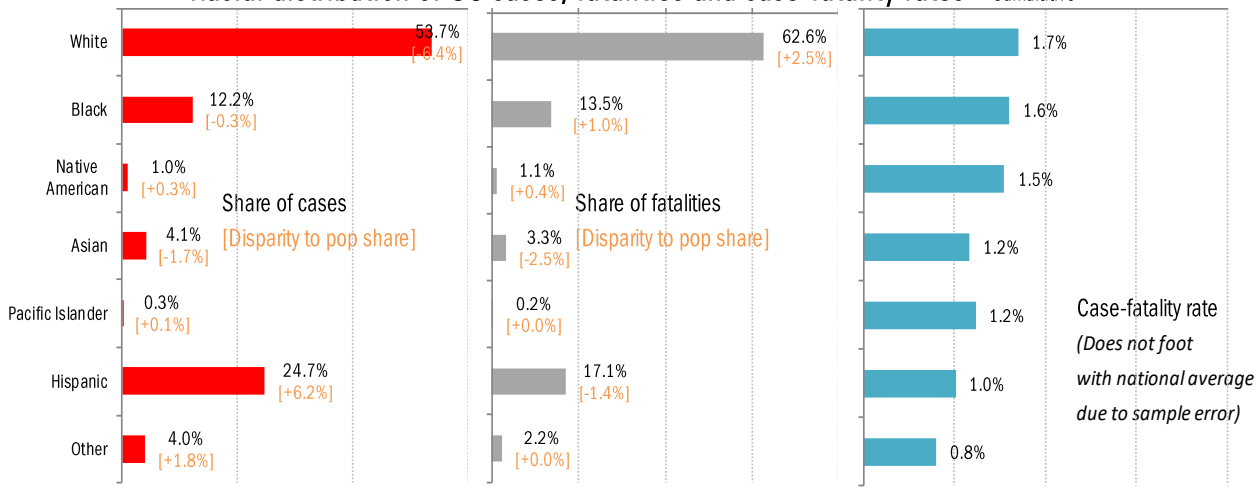
### Age distribution of US cases, fatalities and case-fatality rates

Cumulative



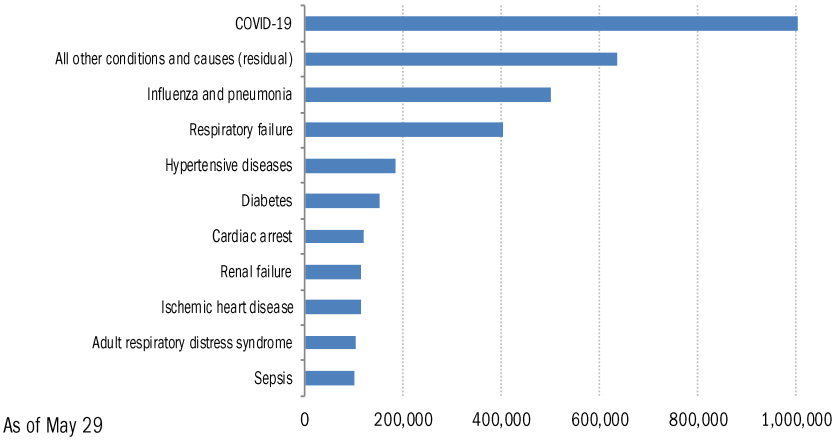

### Racial distribution of US cases, fatalities and case-fatality rates

Cumulative




### Comorbidities

Top-ten joint causes of Covid mortalities, cumulative




As of May 29

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

CDC: Original omicron strains being taken over by BA.4, BA.5 in Texas region
Grace Reader
*KXAN*
June 15, 2022

Texas Children's Hospital opens COVID vaccine appointments for kids 5 and under
Julian Gill
*Houston Chronicle*
June 16, 2022

Low levels of testing may be hiding a COVID wave in Texas: Experts
Mary Kekatos
*ABC News*
June 16, 2022

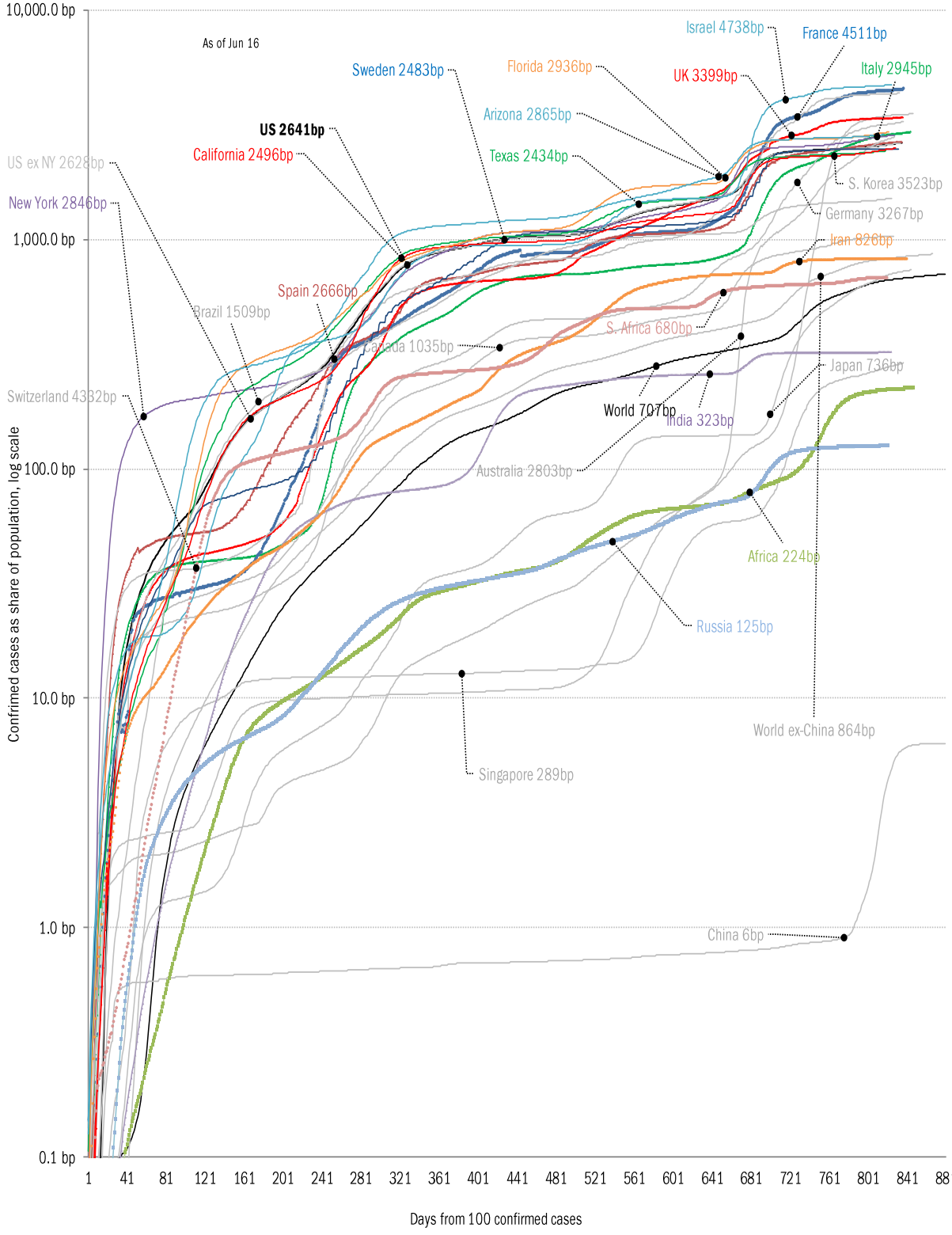
Immune boosting by B.1.1.529 (Omicron) depends on previous SARS-CoV-2 exposure
Katherine J. Reynolds et al.
*Science*
June 14, 2022

## Meme of the day

Source: Our beloved clients, Power Line blog "The Week in Pictures" and CTUP

## The global coronavirus case accelerometer… tracking the world's infection curves

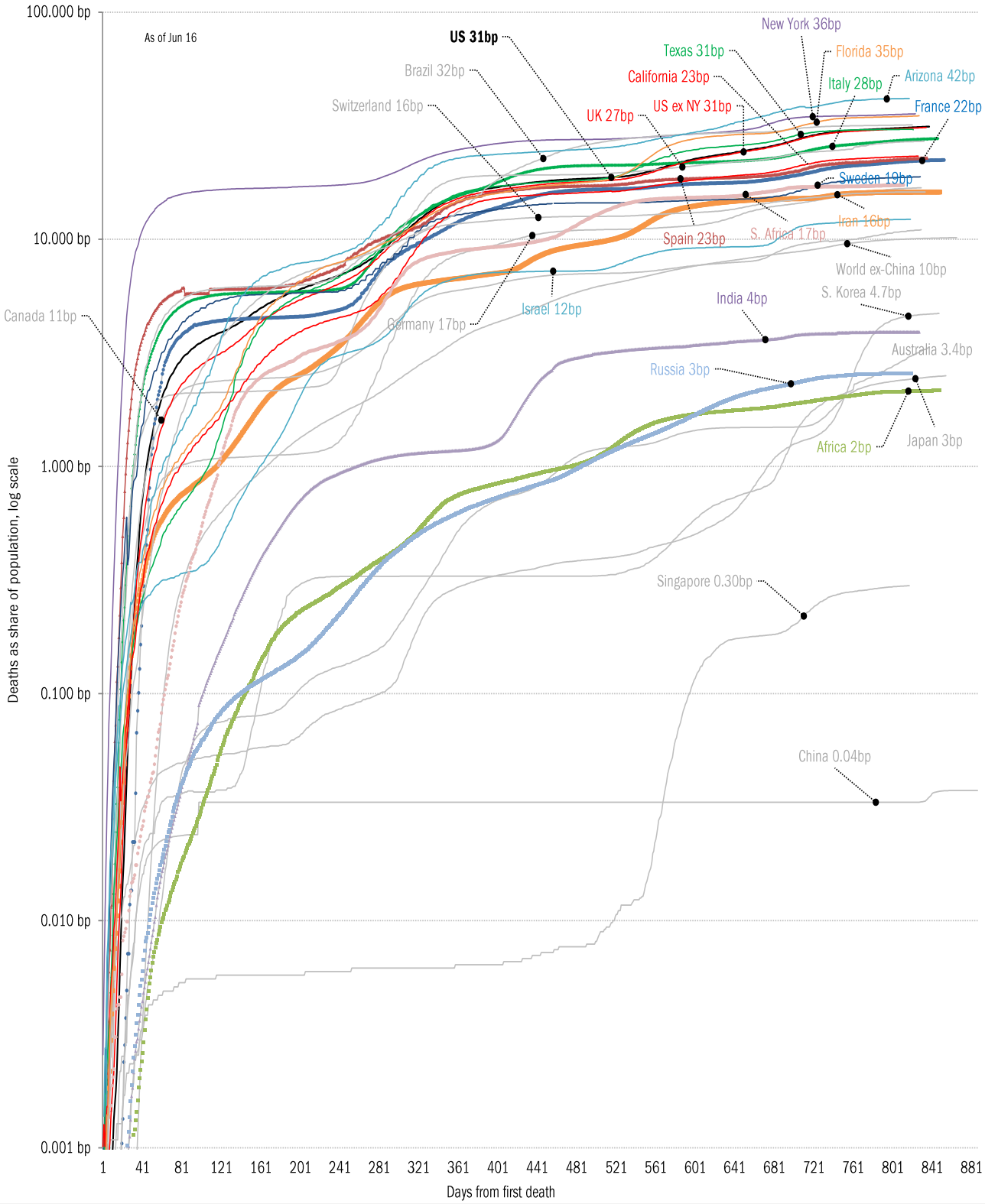
*Share of infected population from first day with 100 confirmed cases, log scale*




Source: Johns Hopkins, TrendMacro calculations

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

*Share of deceased population from day of first fatality, log scale*

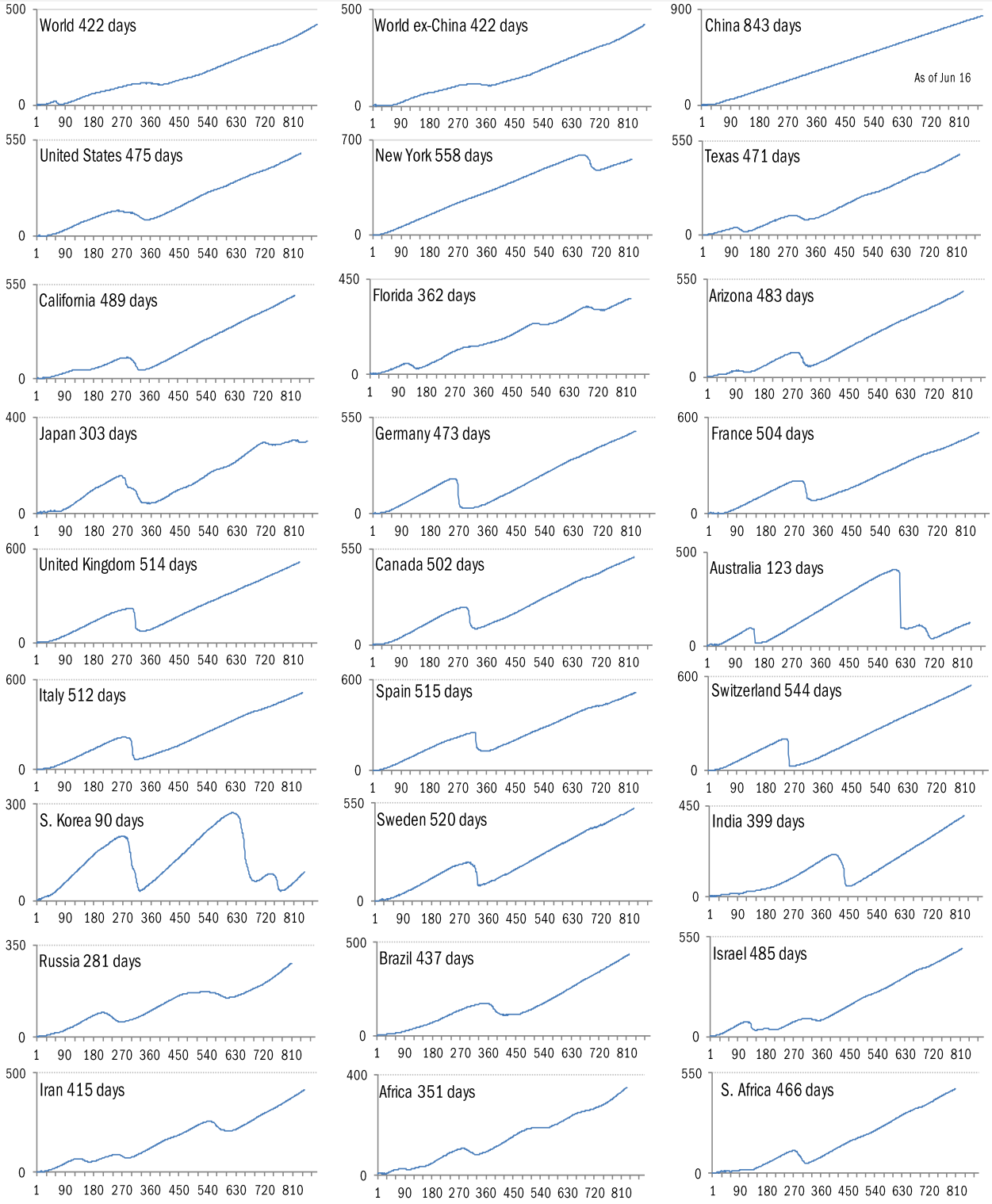



Source: Johns Hopkins, TrendMacro calculations

# 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

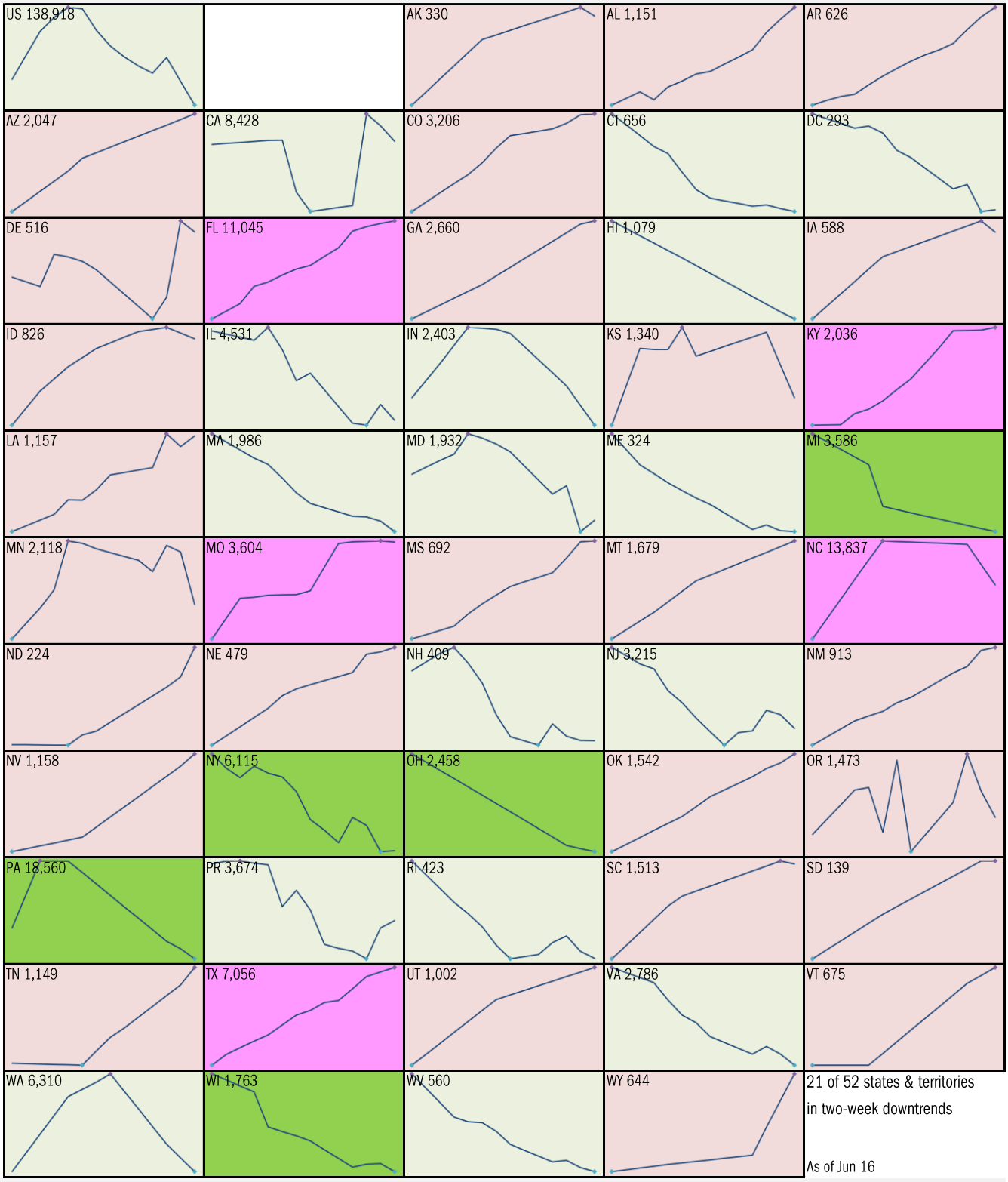



Source: Johns Hopkins, TrendMacro calculations

## 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

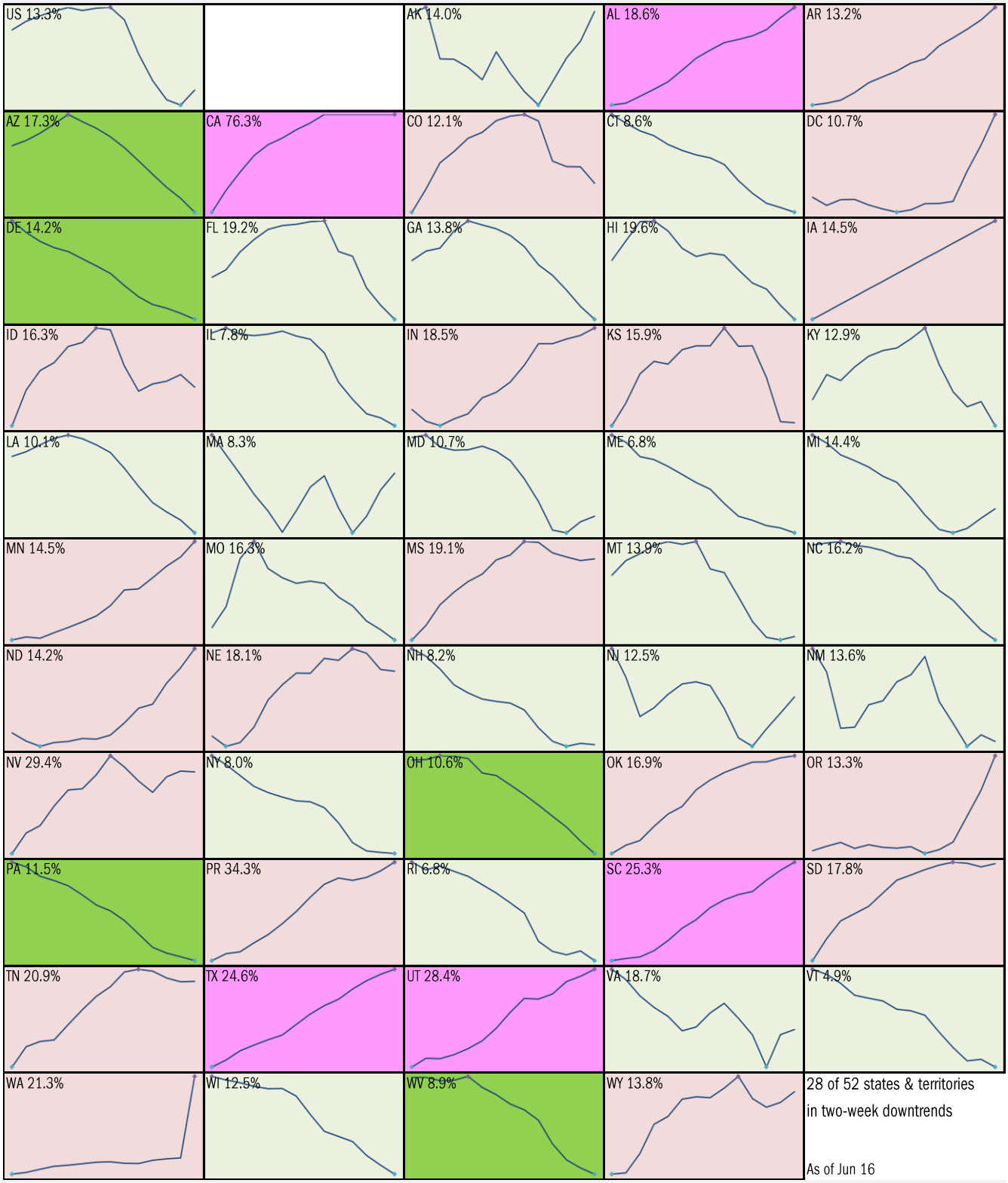



Source: Johns Hopkins, TrendMacro calculations

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

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

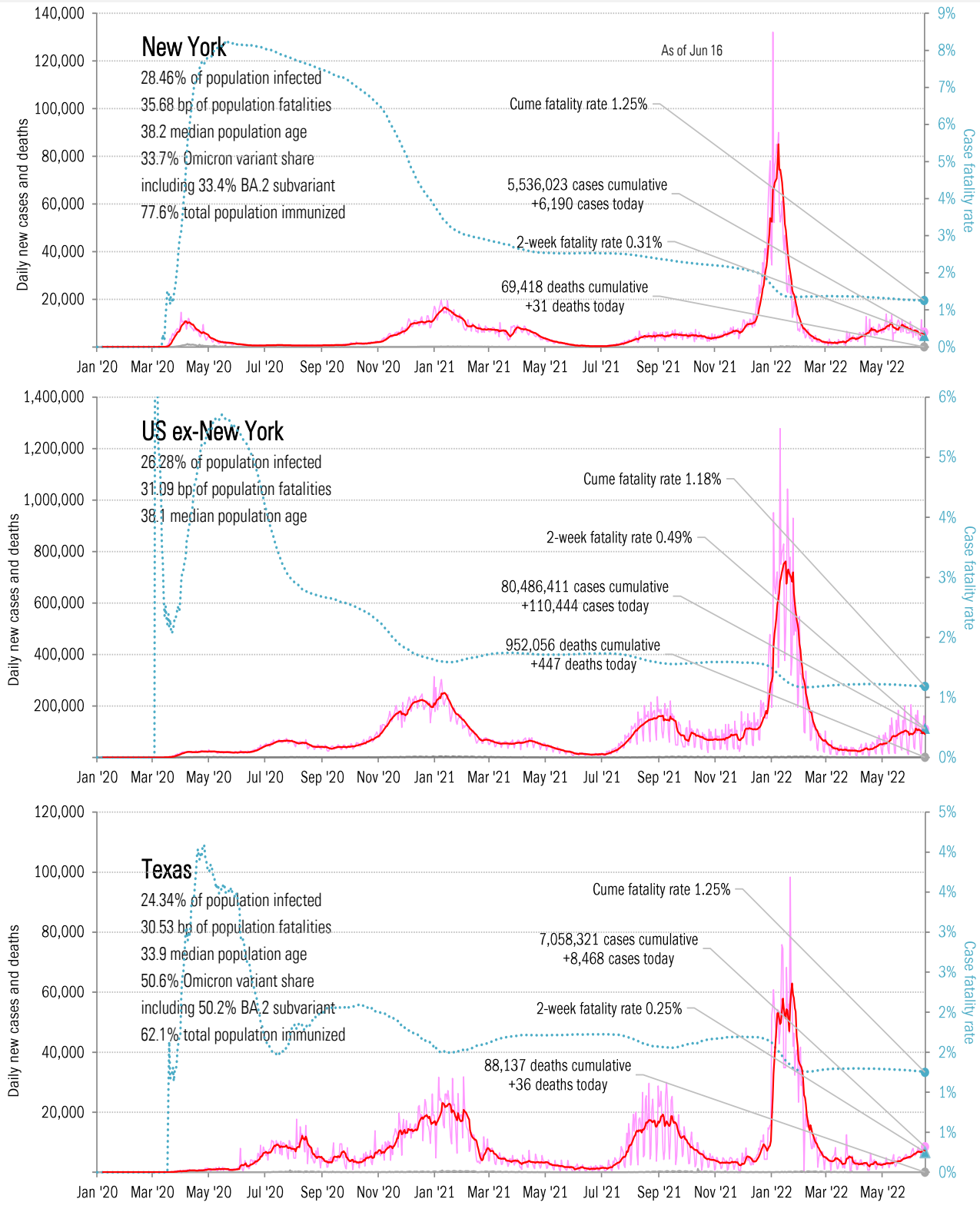
Downward trajectory Five best Upward trajectory Five worst




Source: Covid Act Now, TrendMacro calculations

## From Ground Zero to the Rio Grande

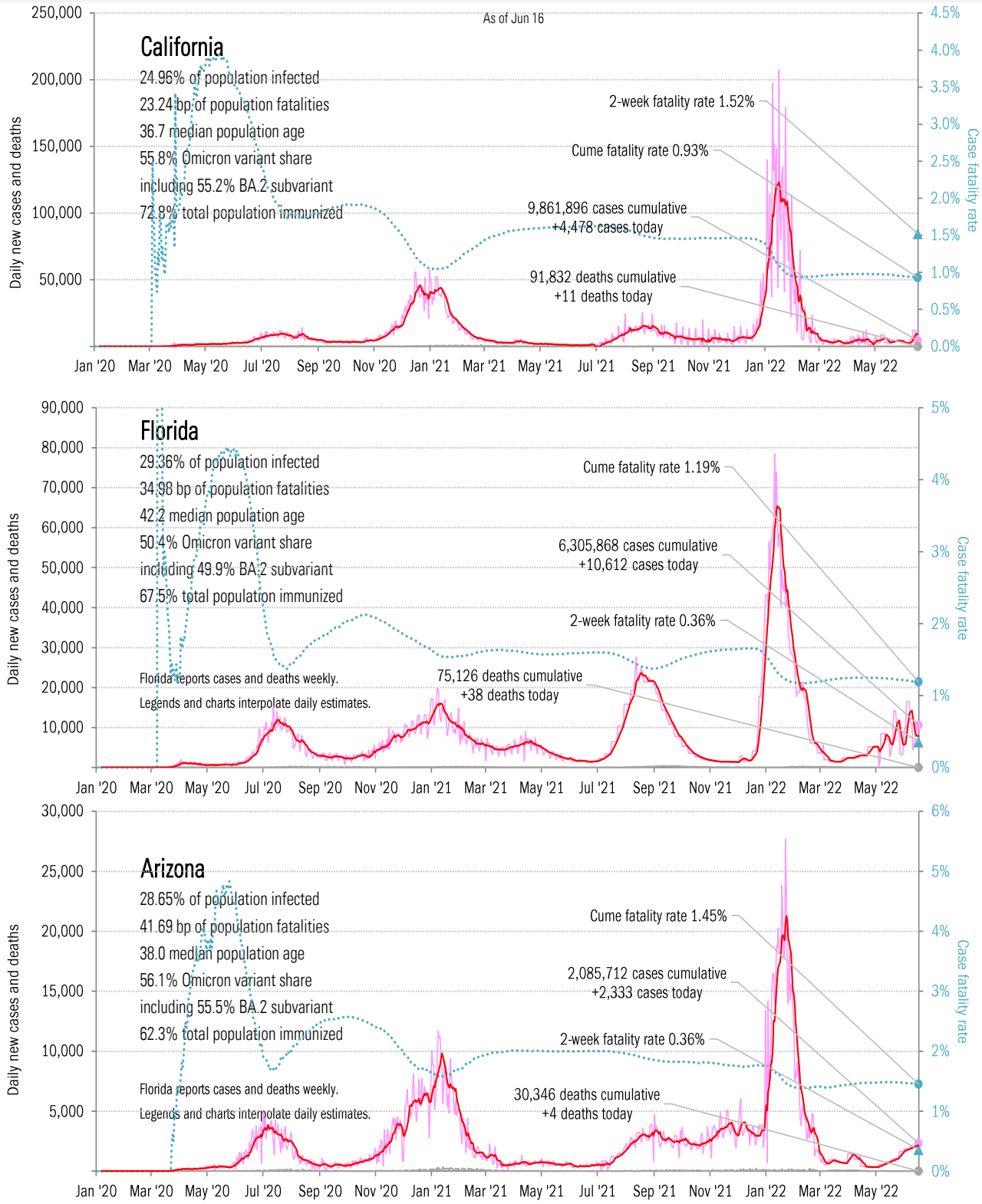
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## The sun-belt hot-spot states

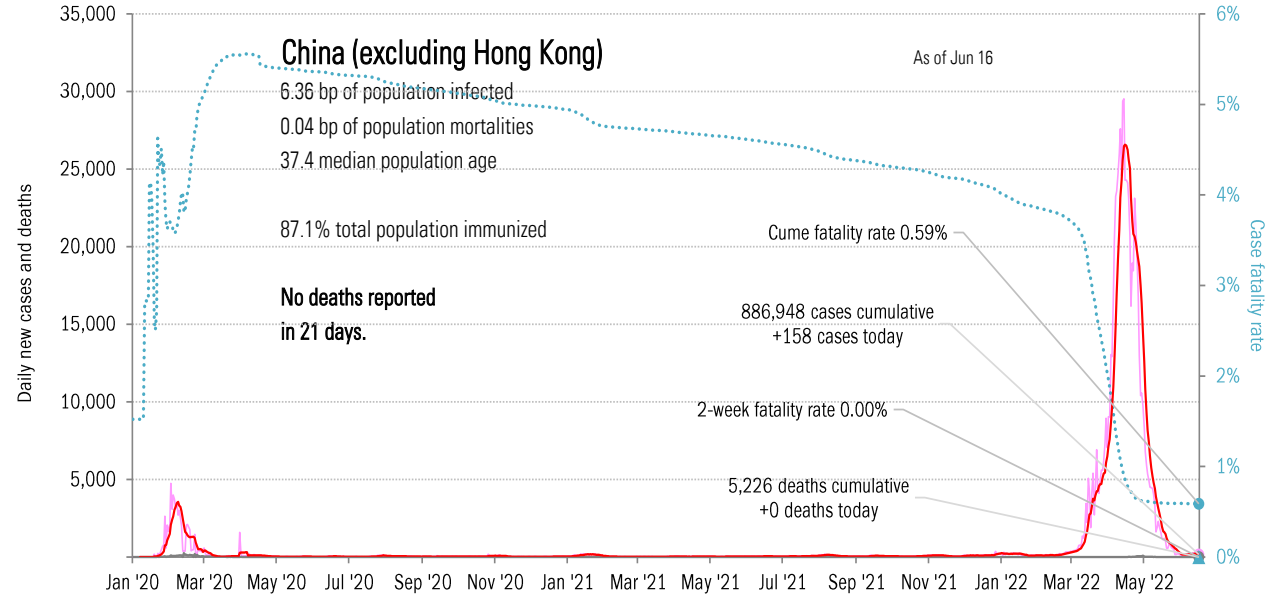
Cases: 7-day average and daily  Deaths: Daily

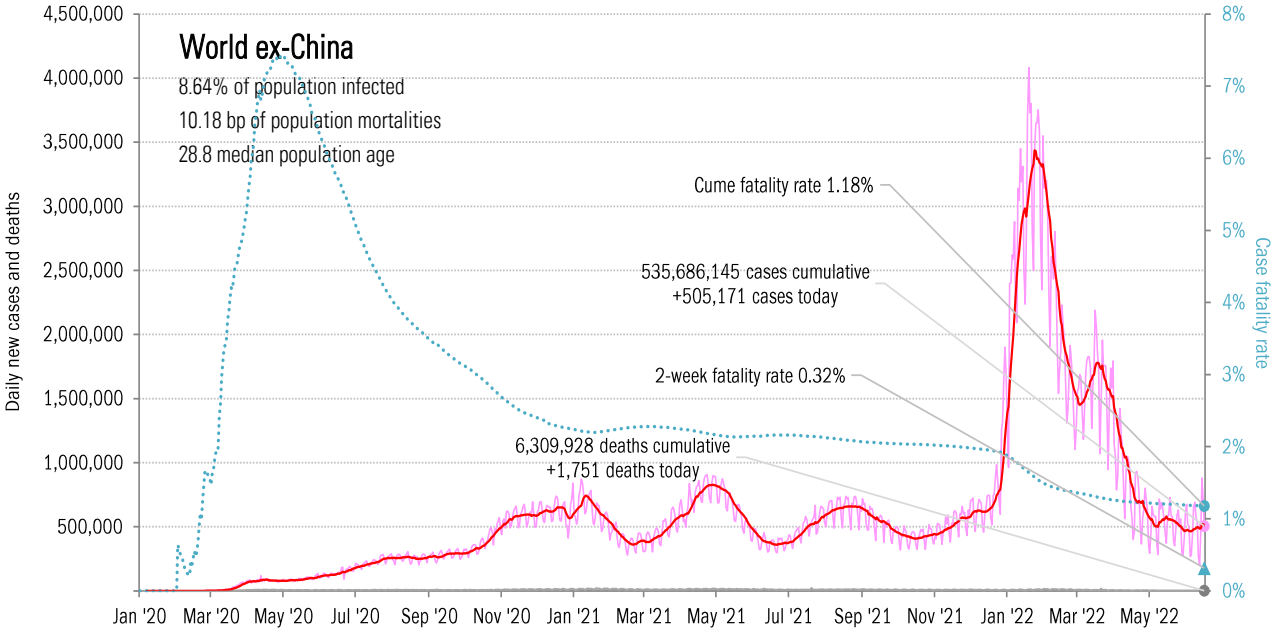



Source: Johns Hopkins, TrendMacro calculations

## Patient zero… and then everyone else

Cases: 7-day average and daily  Deaths: Daily

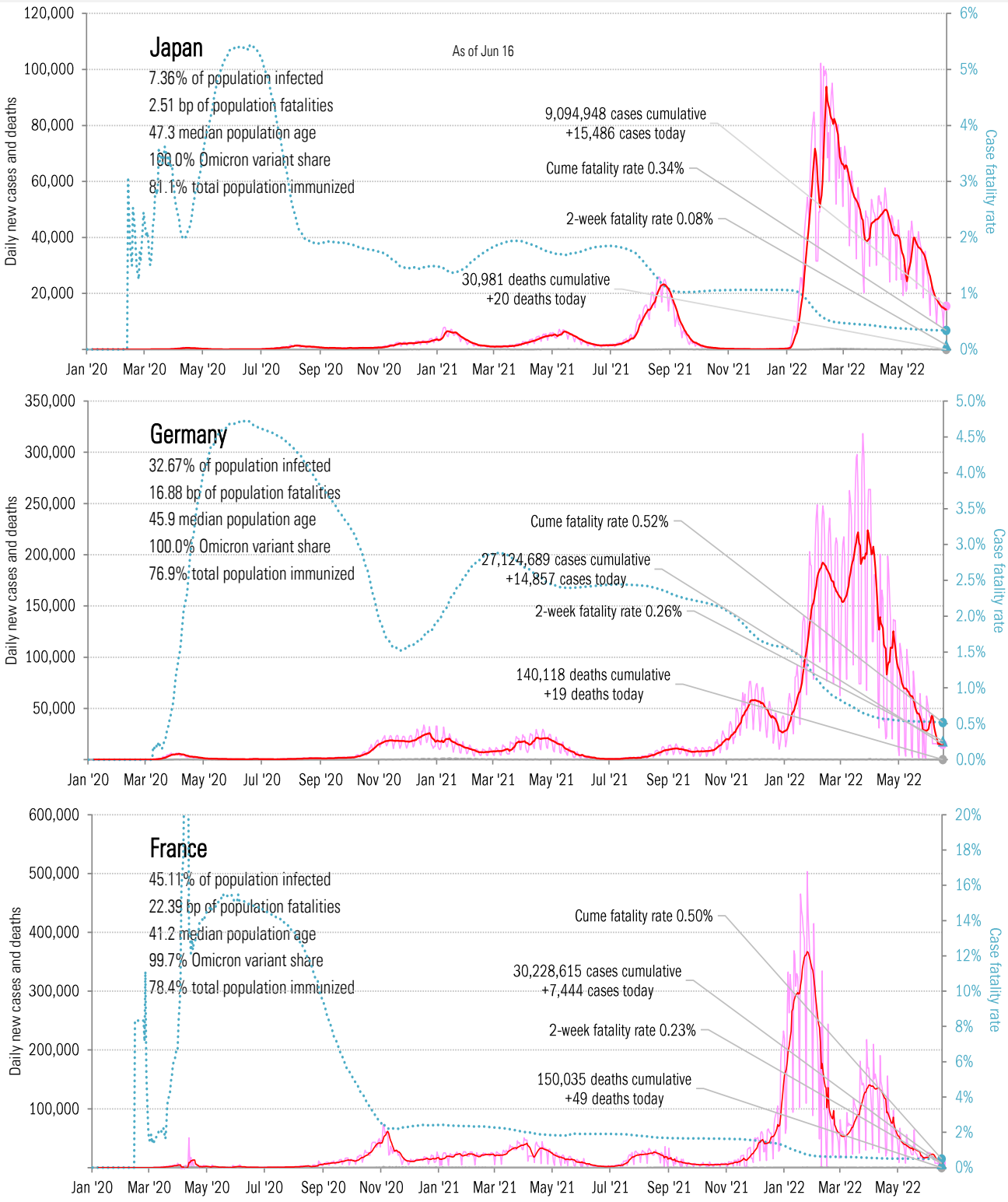



Source: Johns Hopkins, TrendMacro calculations

## Impact in the largest economies

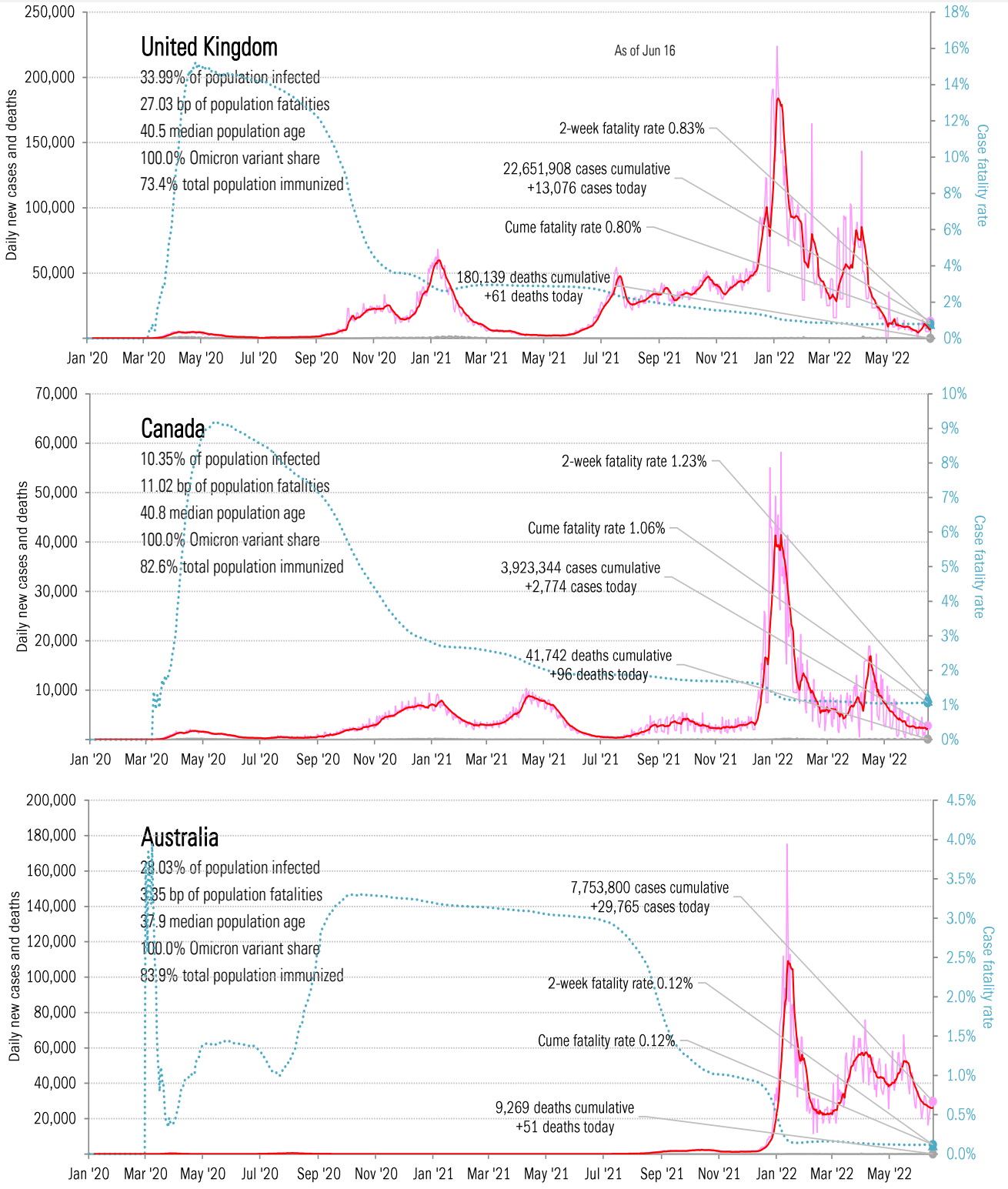
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in The Anglosphere

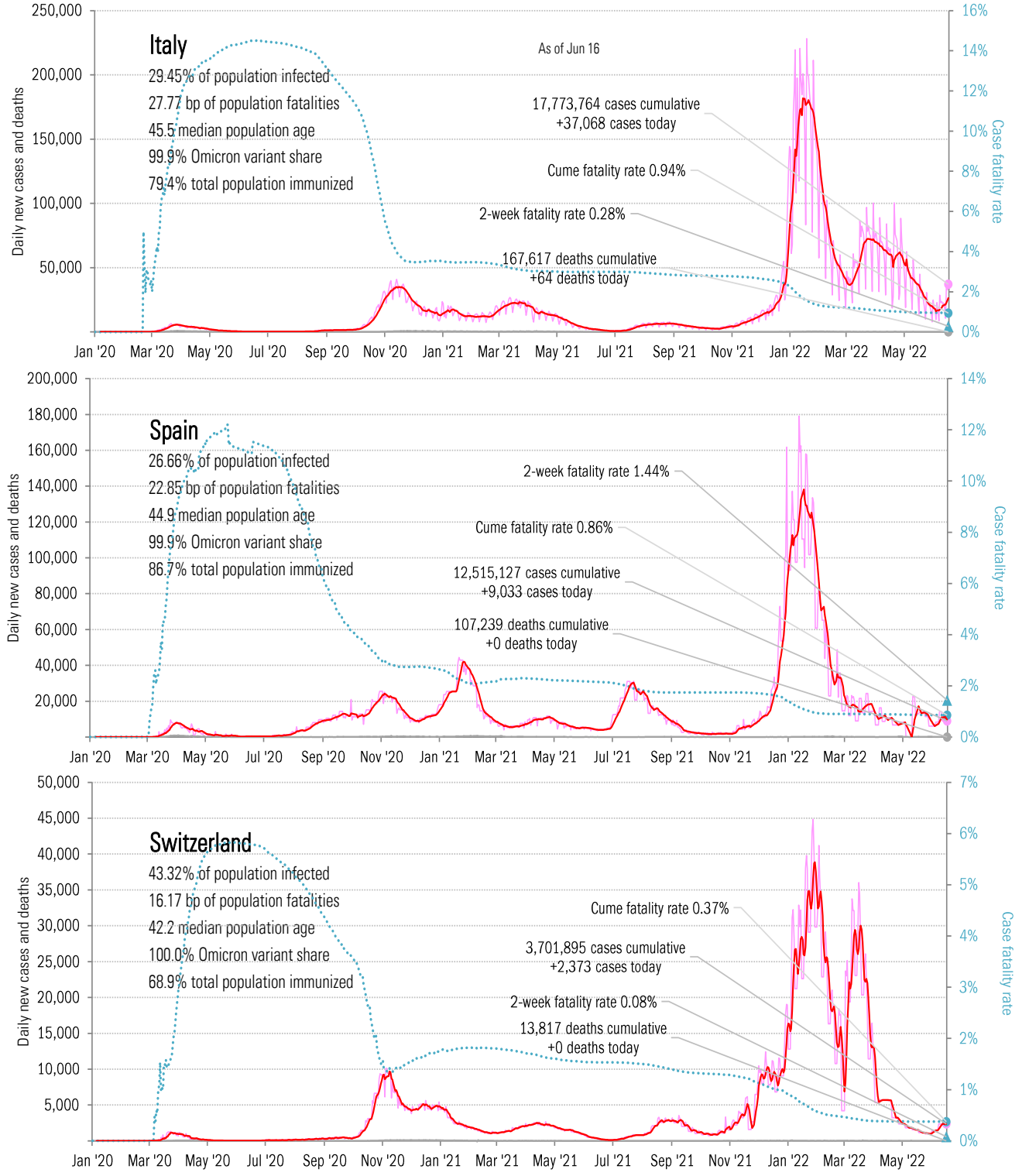
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in continental Europe

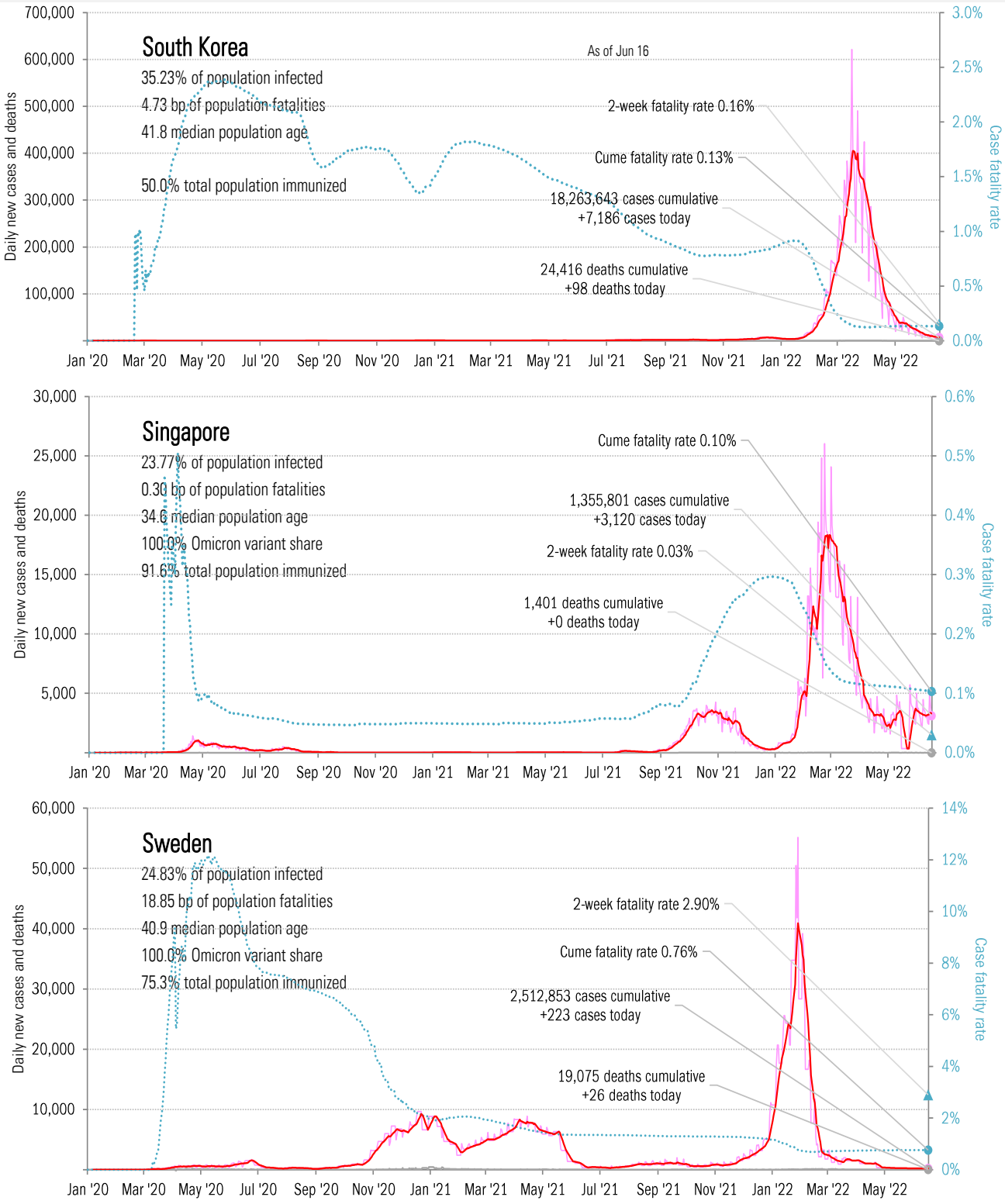
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in other hot-spots

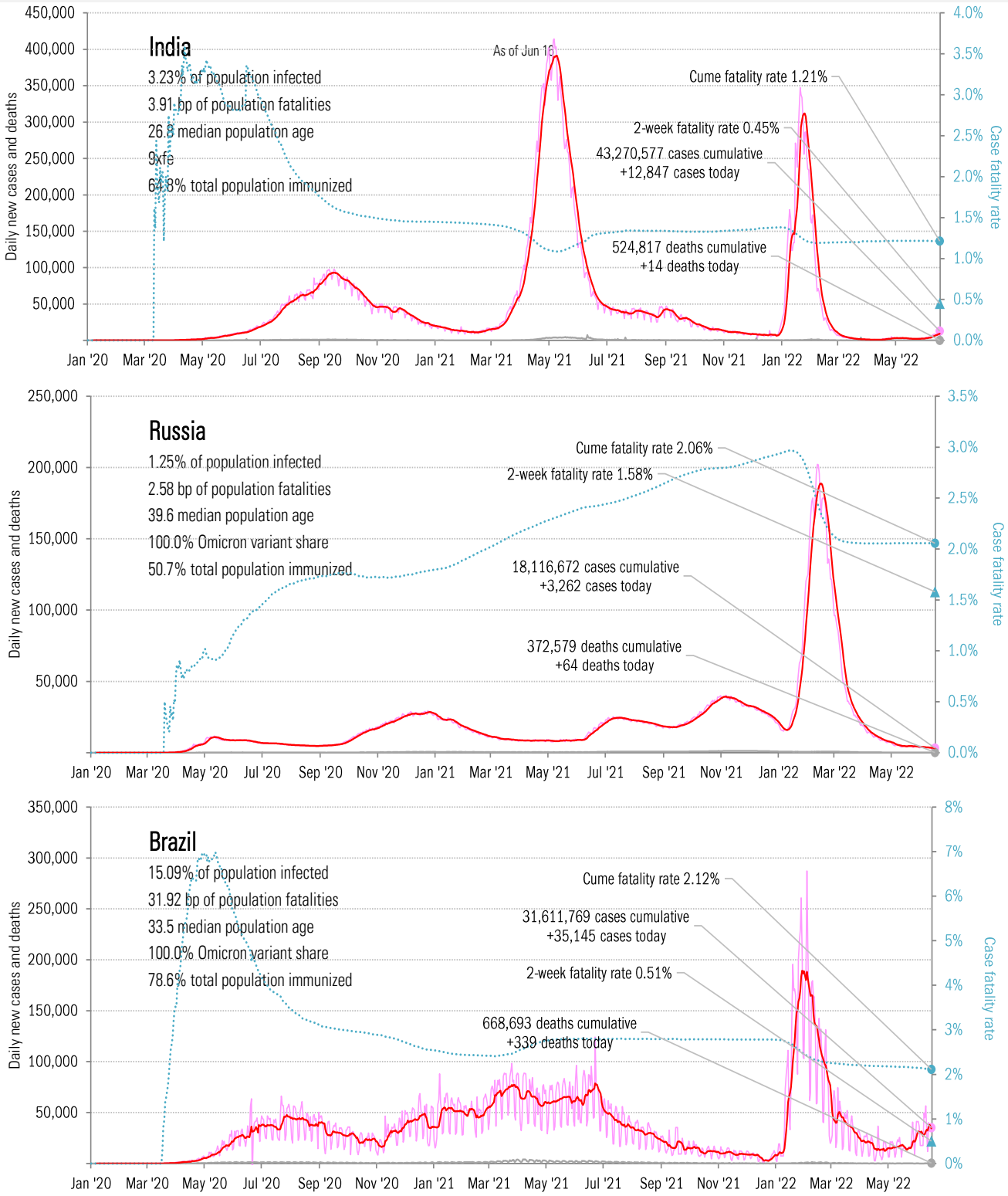
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in the BRICs ex-China

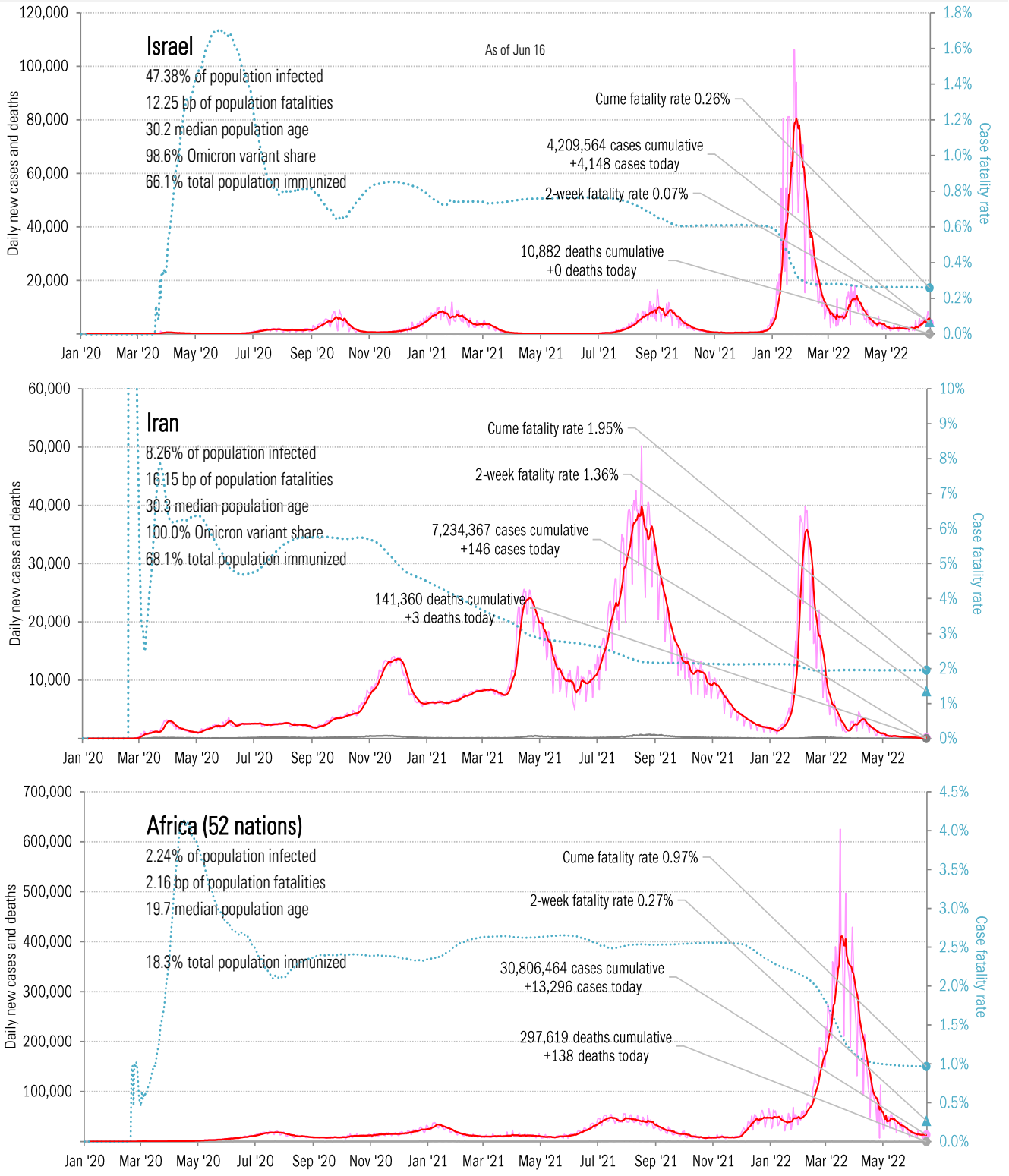
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in the Middle East and Africa

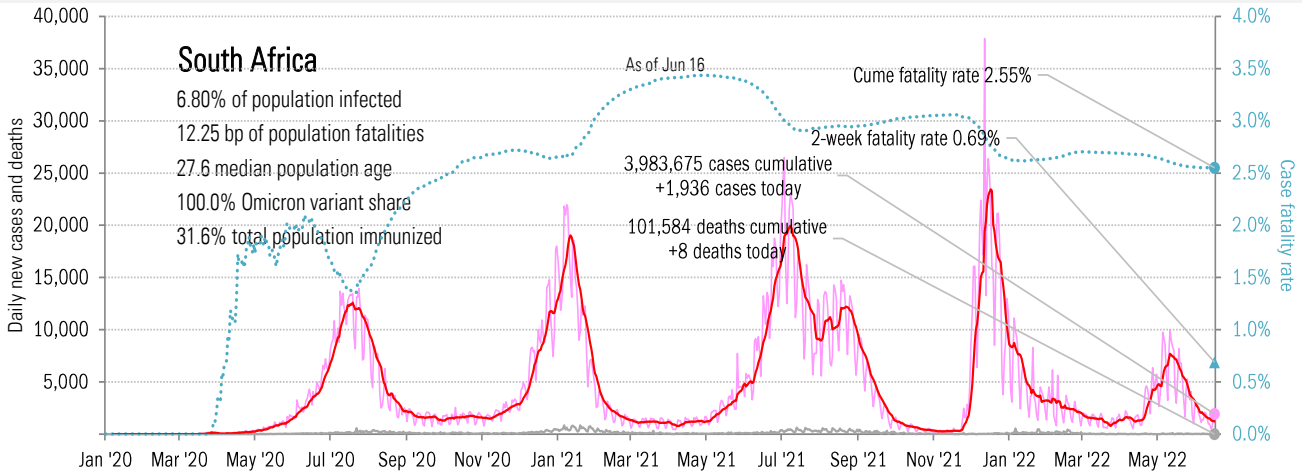
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in Africa, continued

Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations