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

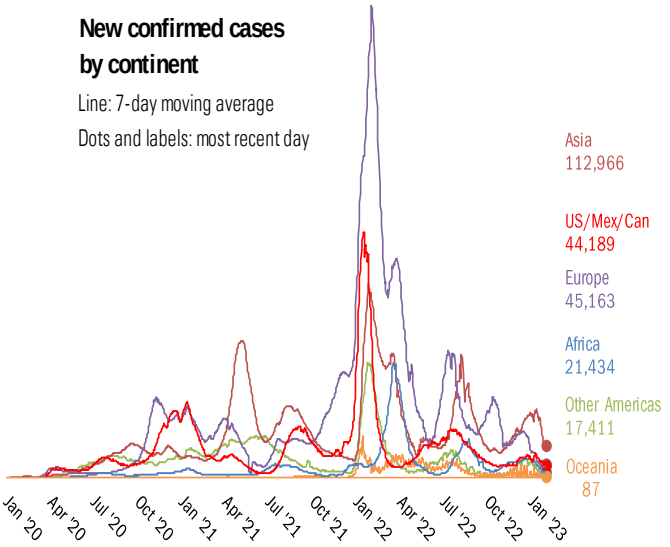
Wednesday, February 1, 2023

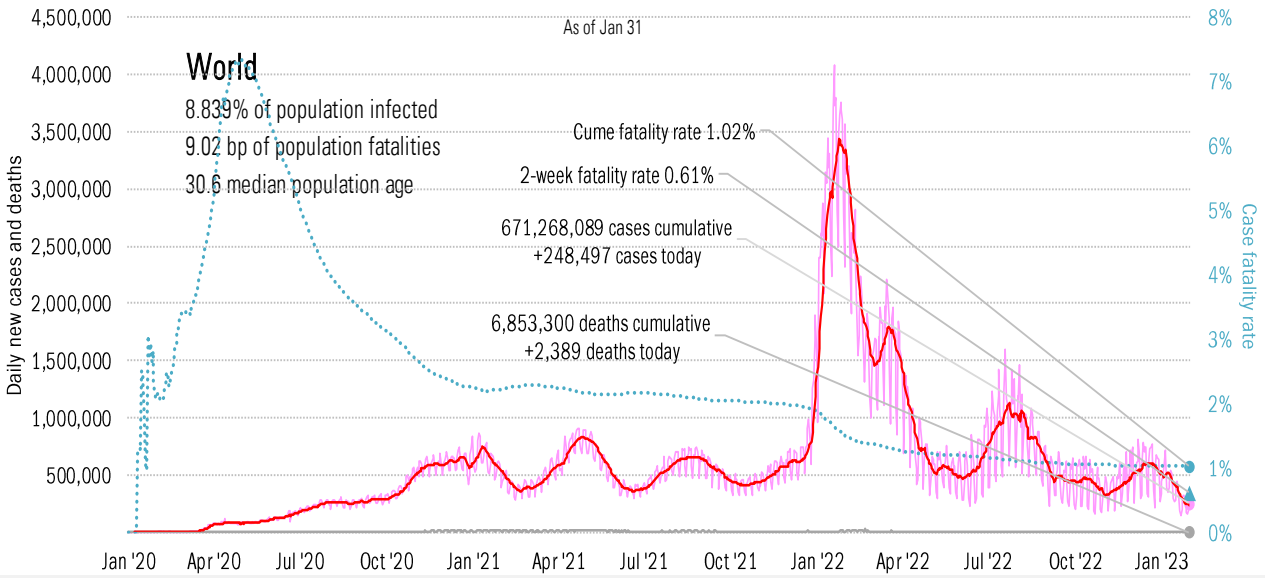
## The global scorecard

Cases: 7-day average and daily  Deaths: Daily

**The worst ten countries** (see China note page 14)

| New cases | | New Deaths | |
|---|---|---|---|
| Japan | 47,118 | China | 909 |
| United States | 41,377 | United States | 823 |
| Taiwan* | 32,272 | Japan | 246 |
| China | 30,851 | Brazil | 182 |
| Korea, South | 20,420 | Germany | 148 |
| Brazil | 16,766 | France | 57 |
| Spain | 8,801 | Italy | 49 |
| Russia | 5,741 | Russia | 44 |
| Italy | 5,451 | Korea, South | 42 |
| Germany | 5,265 | Sweden | 37 |




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

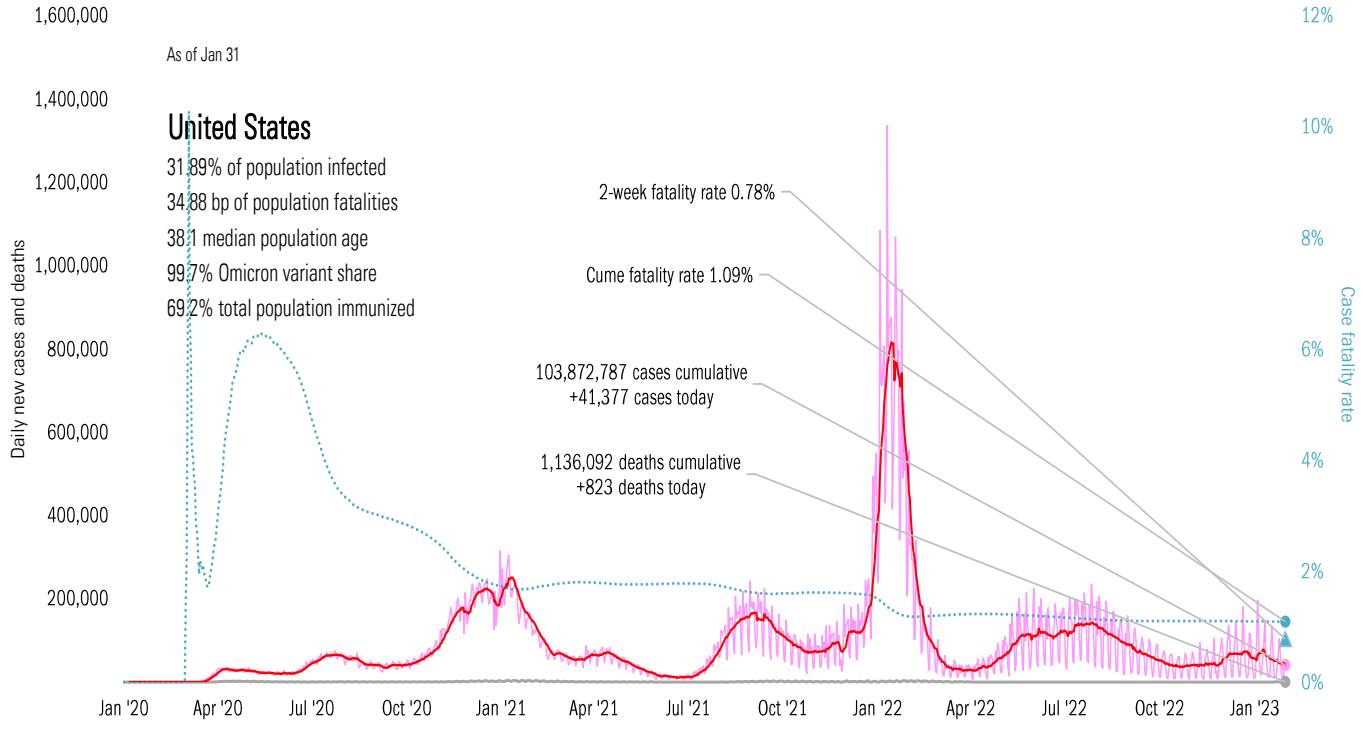
**The ten worst US states**

| New cases | | New deaths | | New in hospital | | Cume cases | | Cume deaths | | Cume in hospital | | Hospital use | | ICU use | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FL | 7,177 | MI | 245 | LA | 64 | CA | 11,986,095 | CA | 100,078 | TX | 581,918 | DE | 88% | TX | 87% |
| CA | 2,927 | NY | 77 | OH | 151 | TX | 8,354,709 | TX | 92,568 | CA | 557,626 | RI | 87% | NH | 85% |
| NY | 2,533 | CA | 51 | AK | 11 | FL | 7,443,954 | FL | 84,927 | FL | 526,550 | FL | 86% | RI | 83% |
| NC | 2,054 | MO | 47 | NH | 17 | NY | 6,713,957 | NY | 76,440 | NY | 348,046 | MA | 85% | AL | 82% |
| NJ | 1,922 | MS | 34 | WV | 36 | IL | 4,019,768 | PA | 49,633 | OH | 241,079 | NH | 82% | NC | 82% |
| IL | 1,561 | PA | 34 | ME | 13 | PA | 3,469,902 | GA | 41,915 | GA | 239,505 | WA | 82% | DC | 81% |
| MD | 1,501 | MA | 27 | ND | 10 | NC | 3,412,542 | MI | 41,690 | PA | 226,615 | MD | 81% | MA | 81% |
| SC | 1,411 | CT | 23 | WY | 5 | OH | 3,347,767 | OH | 41,355 | IL | 209,814 | DC | 81% | OK | 81% |
| VA | 1,393 | AZ | 21 | MT | 11 | MI | 3,030,505 | IL | 41,088 | MI | 178,573 | MN | 80% | WV | 79% |
| OH | 1,165 | TX | 21 | SD | 13 | GA | 3,027,856 | NJ | 35,794 | NJ | 159,815 | WV | 79% | AR | 79% |
| | 23,644 | | 579 | | 331 | | 54,807,055 | | 605,488 | | 3,269,541 | | | | |
| All states | 41,377 | | 823 | | 3,387 | All states | 103,872,787 | | 1,136,092 | | 5,926,630 | All states | 70% | | 67% |
| Top ten | 57% | | 70% | | 10% | Top ten | 54% | | 55% | | 55% | Median | 76% | | 73% |

*Some states not reporting*

**Five most improved US states**

| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | |
|---|---|---|---|---|---|
| NY | -6,197 | NY | -31 | MI | -74 |
| NJ | -2,733 | SC | -24 | NY | -60 |
| CA | -1,456 | TX | -7 | MD | -55 |
| CO | -503 | CO | -6 | IL | -53 |
| WI | -407 | WV | -1 | FL | -52 |




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

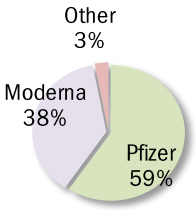
# Rolling out the vaccines in the US and the world

*Updates weekly on Friday*

| Administered | Cumulative | | | | Today |
|---|---|---|---|---|---|
| Doses | 685,516,741 | | | | +0.147 million |
| | | | | Of which boosters: | +0.115 million |
| | One dose | % Pop | Immune | % pop | New immune today |
| Total population | 277,346,324 | 83% | 236,447,801 | 71% | +0.017 million |
| Age 12 to 17 | 18,446,236 | 73% | 15,790,380 | 62% | +0.001 million |
| Age 18 to 64 | 184,412,810 | 91% | 156,755,065 | 77% | +0.009 million |
| Age 65 and over | 61,023,896 | 100% | 53,463,192 | 98% | +0.003 million |

| Immunity | Full | Partial |
|---|---|---|
| US | 69.1% | 81.0% |
| UK | 75.2% | 79.7% |
| France | 78.4% | 80.6% |
| Spain | 85.6% | 86.9% |
| Germany | 76.2% | 77.8% |
| Italy | 81.3% | 86.2% |
| Australia | 82.7% | 85.0% |
| Israel | 65.2% | 71.1% |
| Canada | 82.6% | 90.4% |
| Japan | 83.3% | 84.4% |
| Africa | 28.2% | 34.2% |
| India | 67.1% | 72.5% |
| Brazil | 81.5% | 87.8% |
| China | 89.5% | 91.9% |

Global data differs due to sources, timing




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

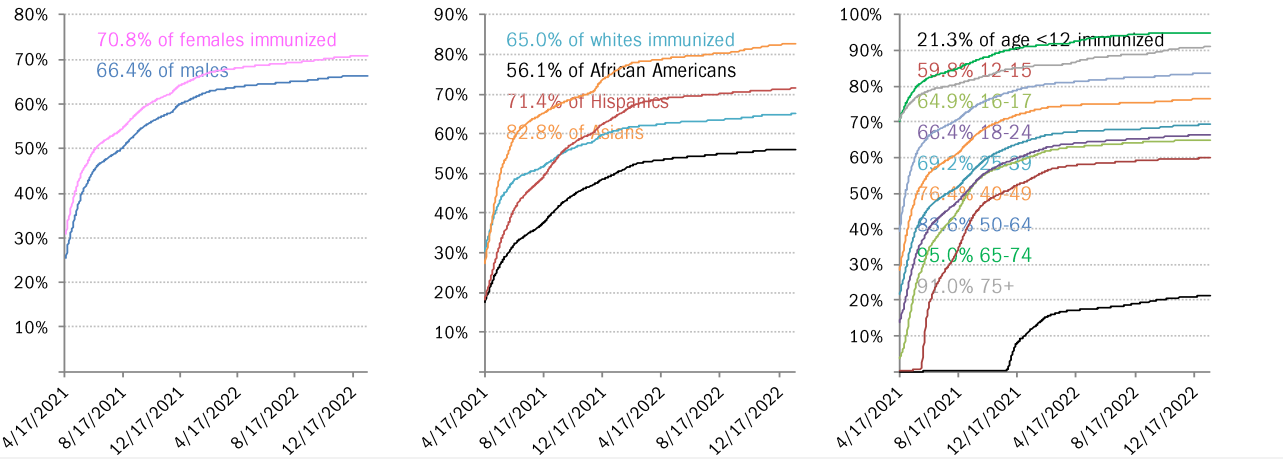
"Immunity" = two doses

Best
Middle
Worst

As of Jan 27

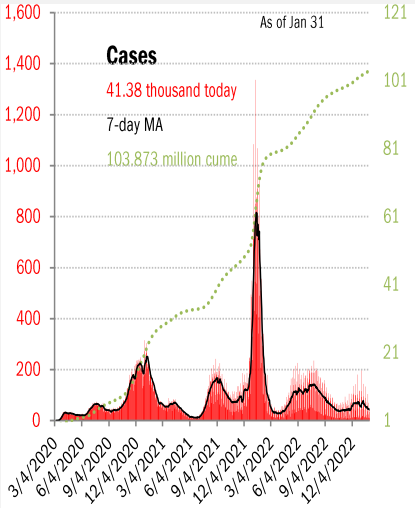
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| AK | | | | | WI | | | | | ME |
| 72.9% | | | | | 75.0% | | | | | 95.0% |
| 65.1% | | | | | 68.1% | | | | | 83.2% |
| WA | ID | MT | ND | MN | IL | MI | | NY | VT | NH |
| 85.1% | 63.8% | 68.2% | 69.3% | 78.7% | 79.0% | 69.4% | | 94.3% | 95.0% | 88.0% |
| 75.9% | 56.4% | 59.1% | 58.6% | 72.0% | 71.1% | 62.3% | | 80.7% | 85.5% | 71.8% |
| OR | NV | WY | SD | IA | IN | OH | PA | NJ | MA | |
| 81.5% | 77.5% | 60.8% | 83.7% | 70.6% | 64.3% | 65.7% | 90.4% | 94.5% | 95.0% | |
| 72.3% | 63.6% | 53.0% | 66.2% | 64.3% | 57.7% | 60.4% | 73.2% | 79.0% | 84.1% | |
| CA | UT | CO | NE | MO | KY | WV | VA | MD | CT | RI |
| 84.6% | 75.1% | 83.5% | 73.3% | 69.2% | 68.8% | 67.4% | 90.9% | 91.6% | 95.0% | 95.0% |
| 74.6% | 66.6% | 73.4% | 66.2% | 59.0% | 59.6% | 59.6% | 76.5% | 79.6% | 82.9% | 87.6% |
| | AZ | NM | KS | AR | TN | NC | SC | DC | DE | |
| | 77.4% | 94.2% | 76.1% | 69.8% | 64.4% | 92.0% | 70.9% | 95.0% | 88.1% | |
| | 65.9% | 75.1% | 65.2% | 56.8% | 56.2% | 67.0% | 59.8% | 90.2% | 73.2% | |
| | | | OK | LA | MS | AL | GA | | | |
| | | | 74.5% | 62.7% | 61.6% | 64.9% | 68.3% | | | |
| | | | 60.4% | 55.0% | 53.6% | 53.1% | 57.2% | | | |
| HI | | | TX | | | | | FL | | PR |
| 91.3% | | | 76.3% | | | | | 82.4% | | 90.8% |
| 81.4% | | | 63.2% | | | | | 69.3% | | 83.9% |

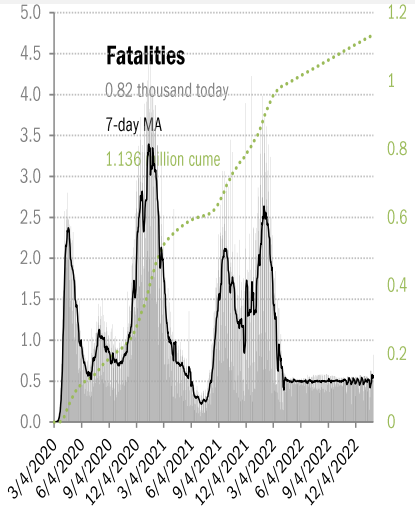
## The demographics of US vaccination

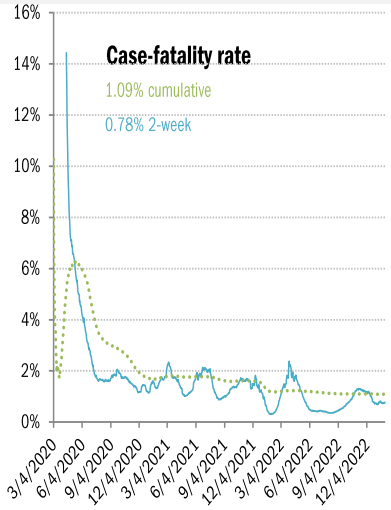


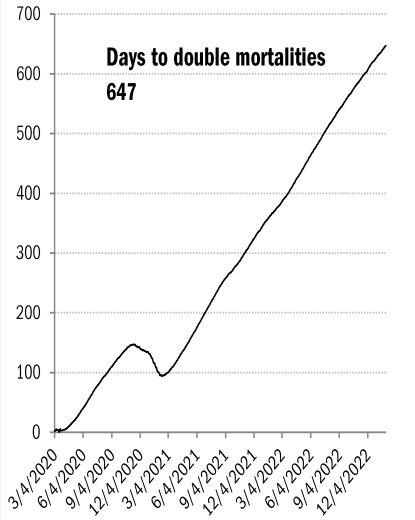

Source: CDC, CDC, Our World in Data, TrendMacro calculations

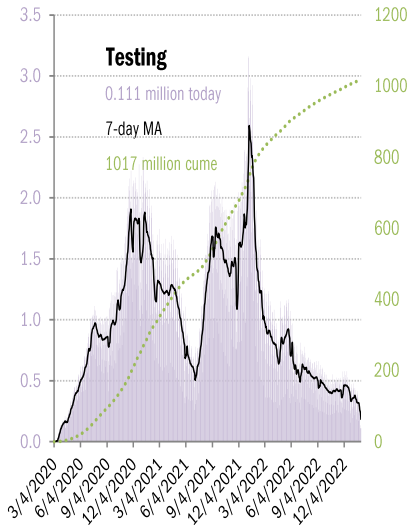
# US deep-dive

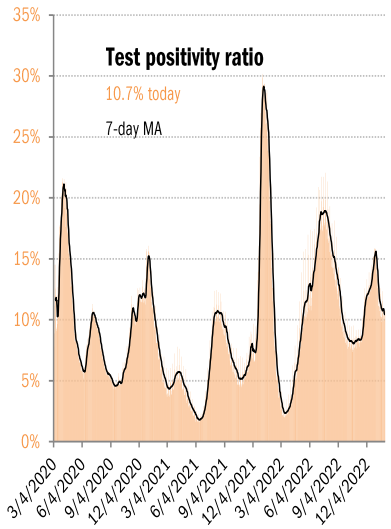


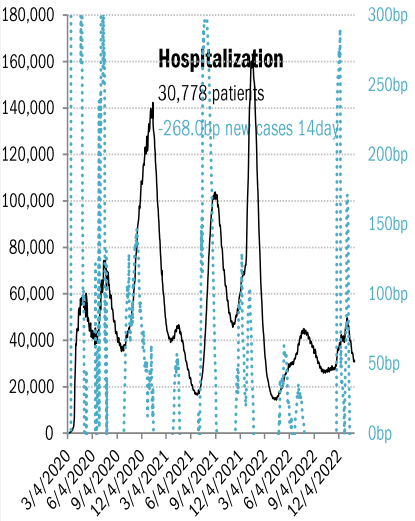



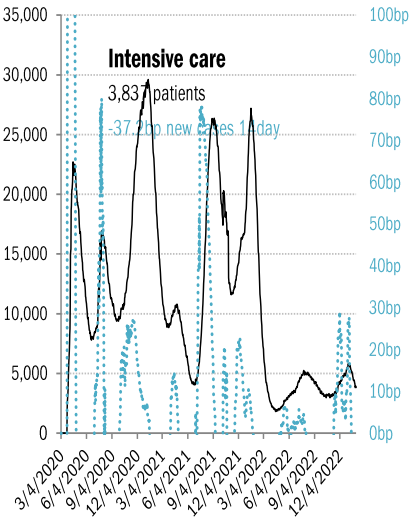



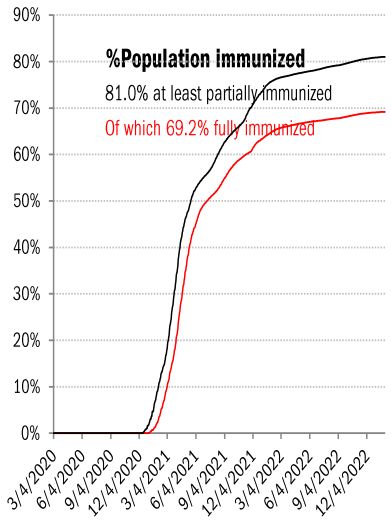



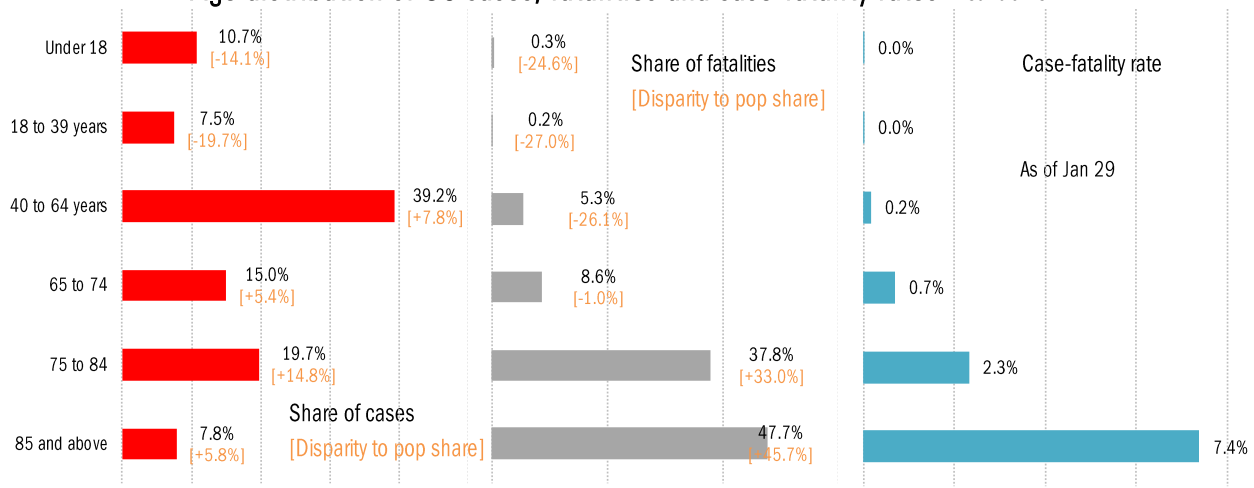

Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

*Updates weekly on Sunday, 1 week lag*

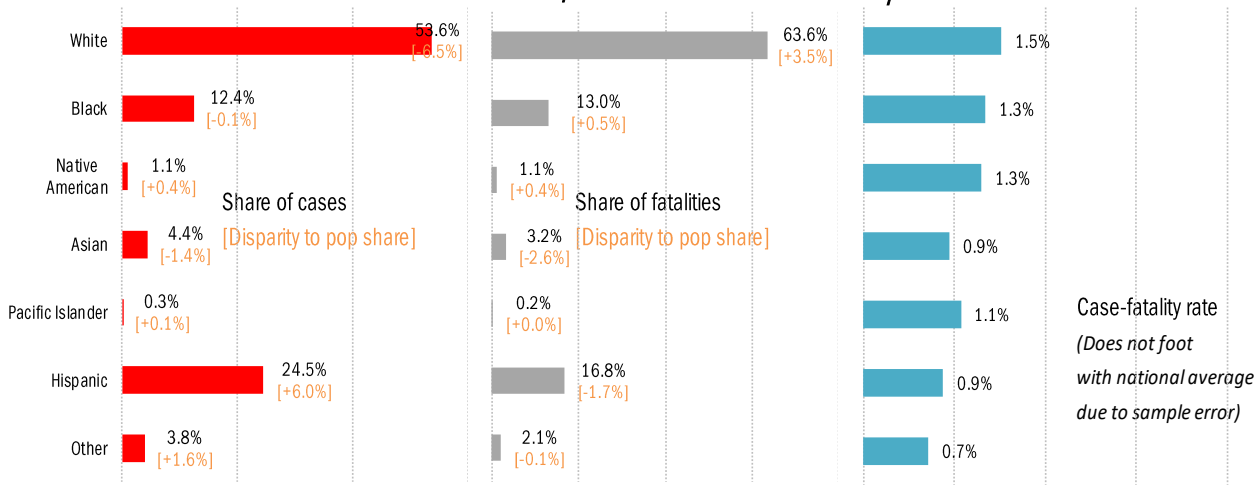
### Age distribution of US cases, fatalities and case-fatality rates

Cumulative



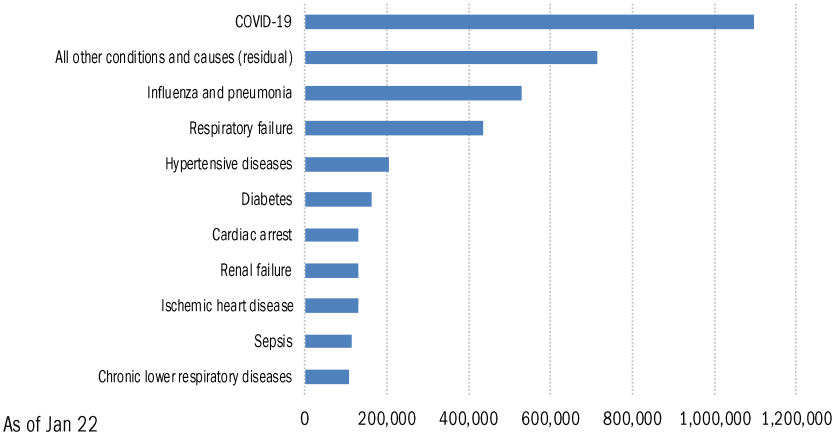

### Racial distribution of US cases, fatalities and case-fatality rates

Cumulative




### Comorbidities

Top-ten joint causes of Covid mortalities, cumulative




As of Jan 22

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

[These benefits will disappear when Biden ends the Covid national and public health emergencies in May]
Tami Luhby, Phil Mattingly and Jeremy Diamond
*CNN*
January 31, 2023

[MIT Professor Calls For an Immediate Halt to 'Failing' mRNA Vaccination Programs]
Debra Heine
*American Greatness*
January 30, 2023

[An Underused Covid Treatment]
German Lopez
*New York Times*
January 31, 2022

[The role of social circle COVID-19 illness and vaccination experiences in COVID-19 vaccination decisions: an online survey of the United States population]
Mark Skidmore
*BMC Infectious Diseases*
January 24, 2023

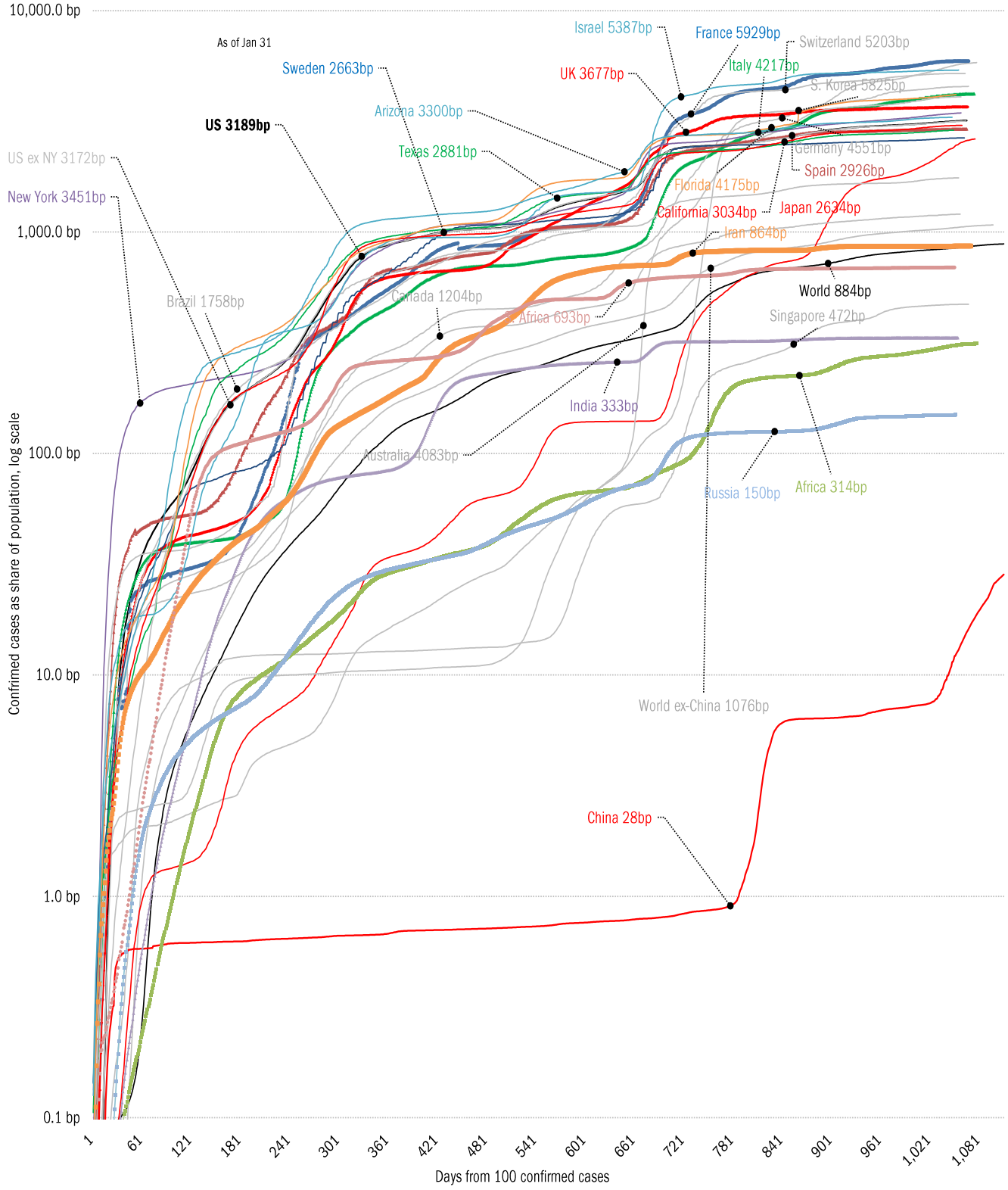
[How Biden Officials Bungled a Better Vaccine]
Allysia Finley
*Wall Street Journal*
January 30, 2023

## 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

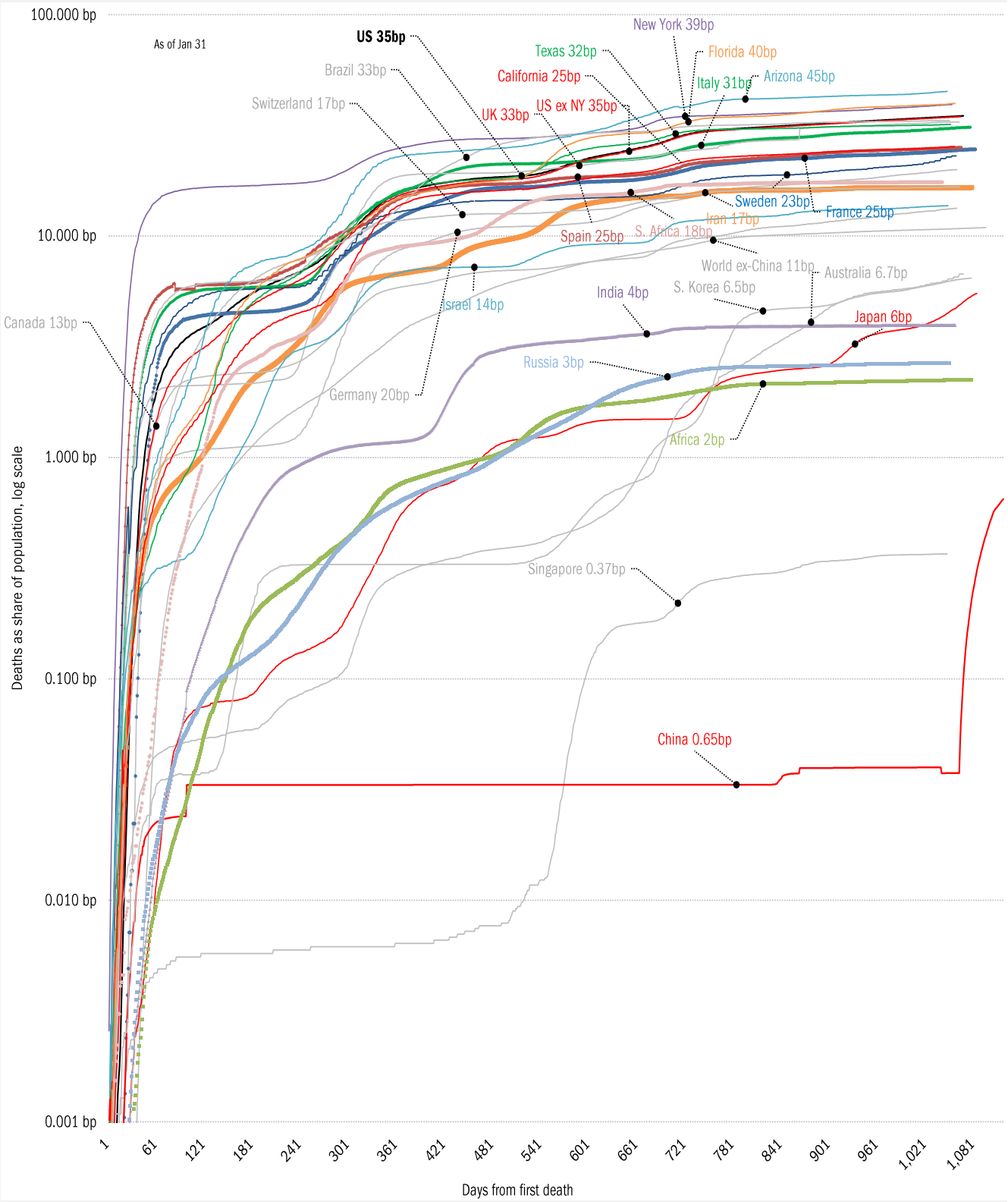
*Share of infected population from first day with 100 confirmed cases, log scale*




Source: Johns Hopkins, TrendMacro calculations

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

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

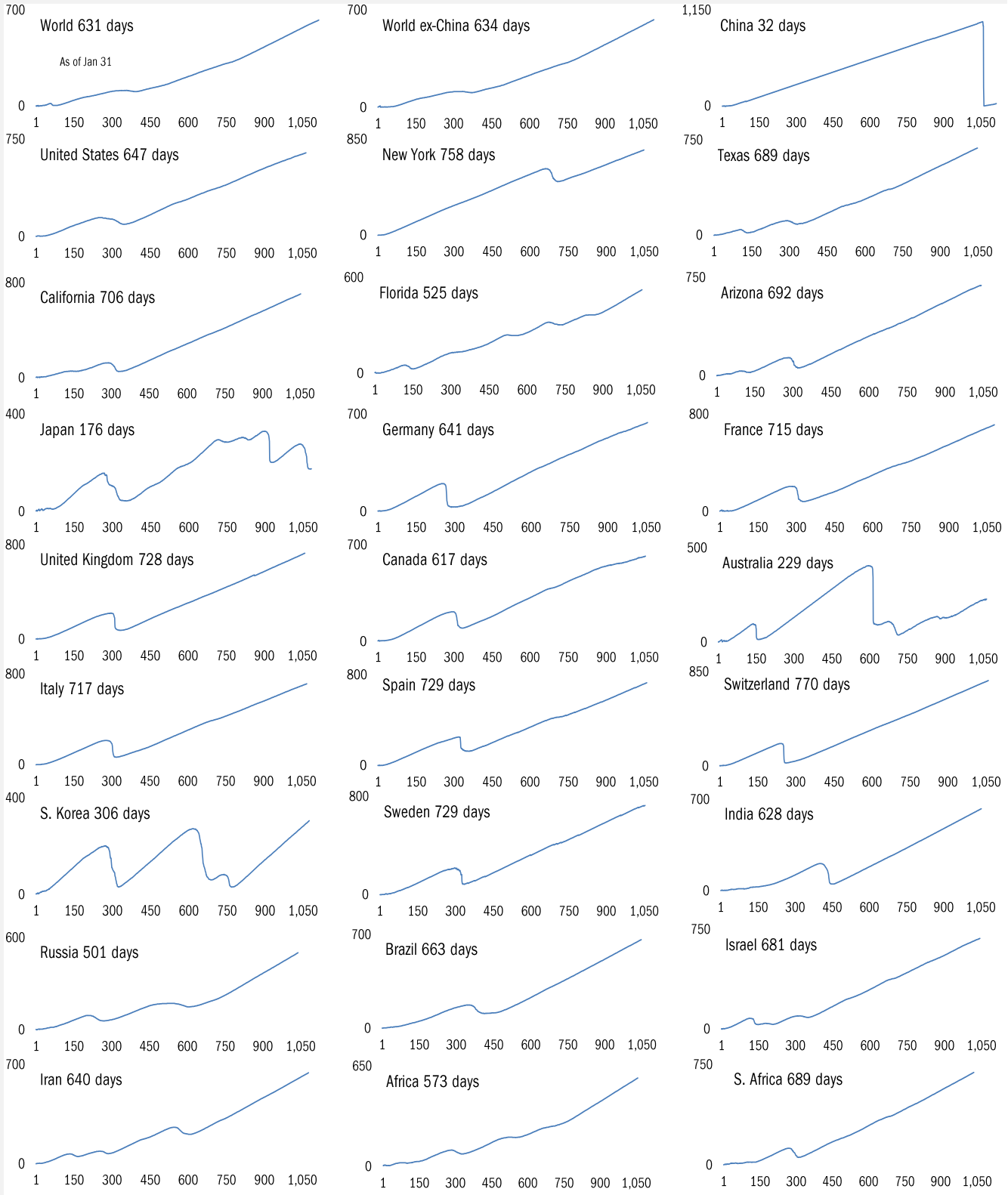



Source: Johns Hopkins, TrendMacro calculations

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

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

**Higher is good** *Flat* indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

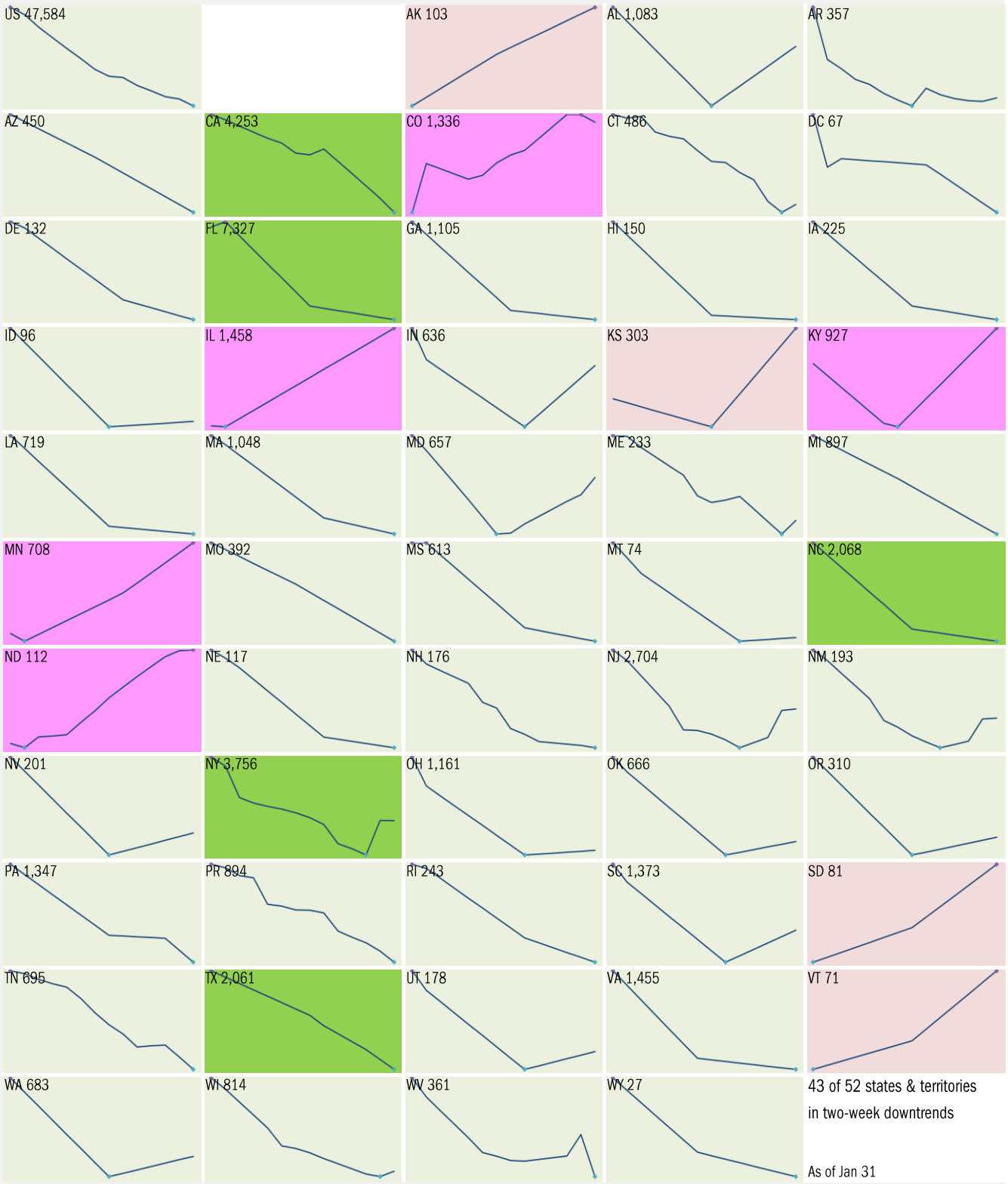



Source: Johns Hopkins, TrendMacro calculations

## 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

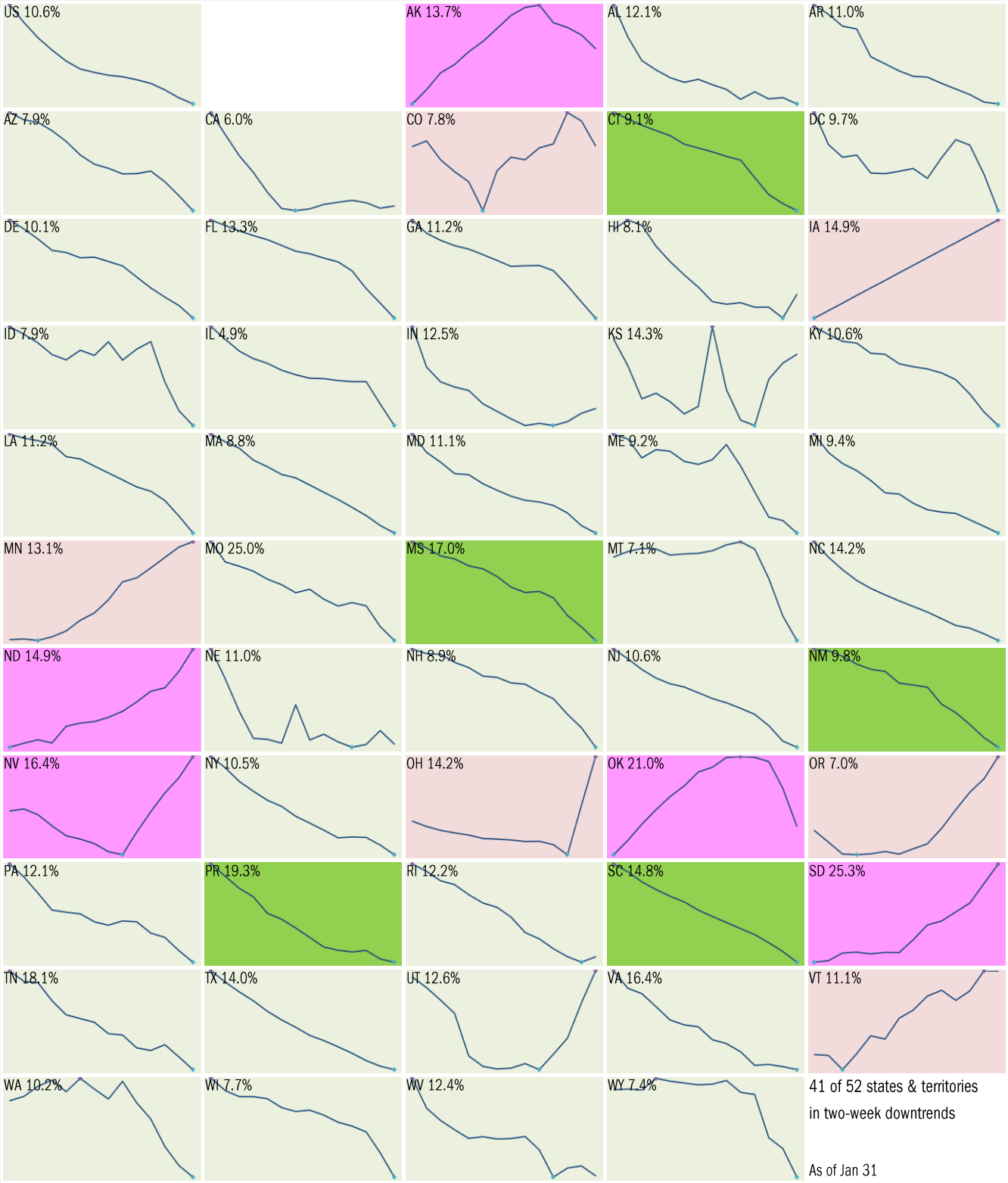



Source: Johns Hopkins, TrendMacro calculations

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

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

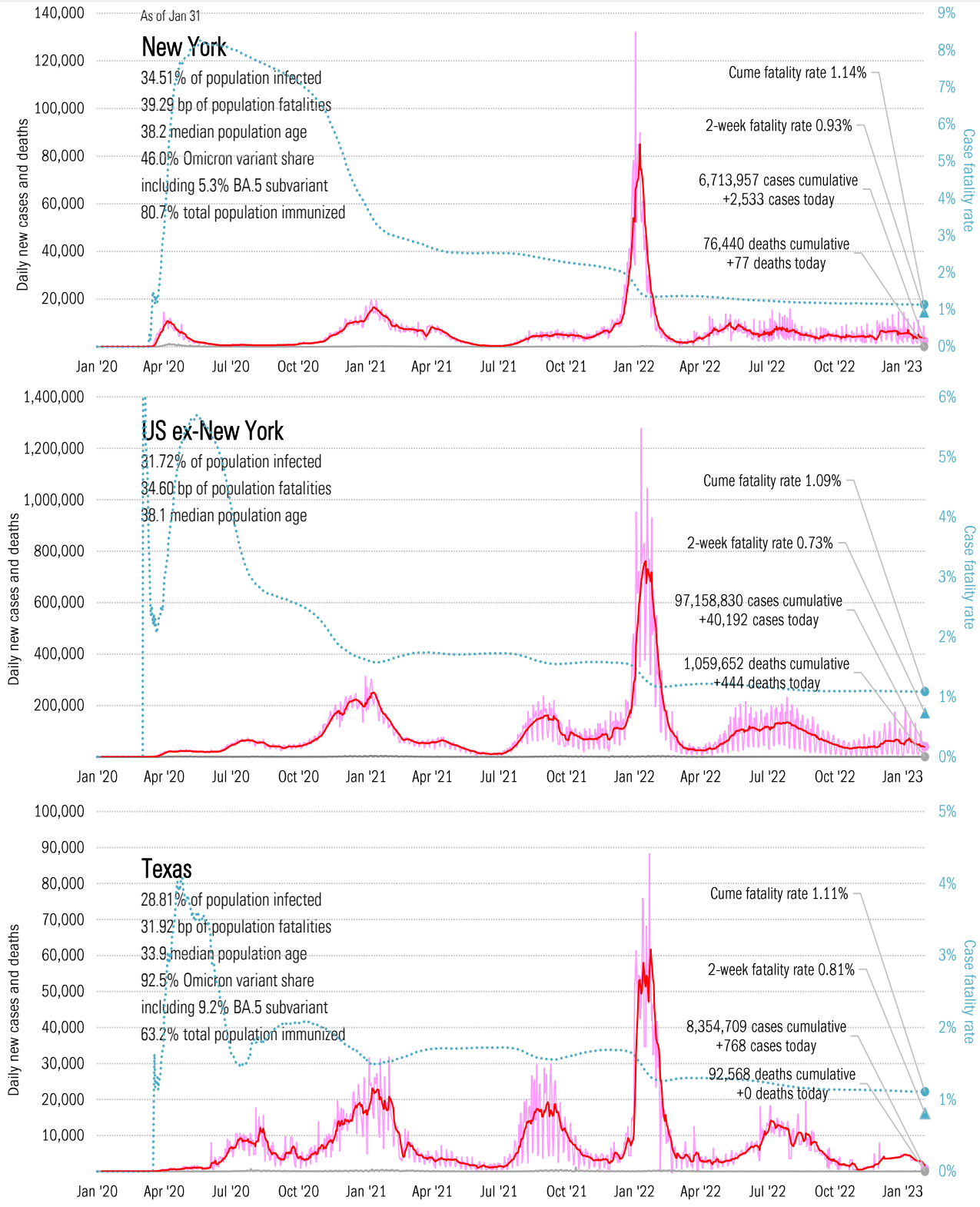
Downward trajectory Five best Upward trajectory Five worst




Source: Covid Act Now, TrendMacro calculations

## From Ground Zero to the Rio Grande

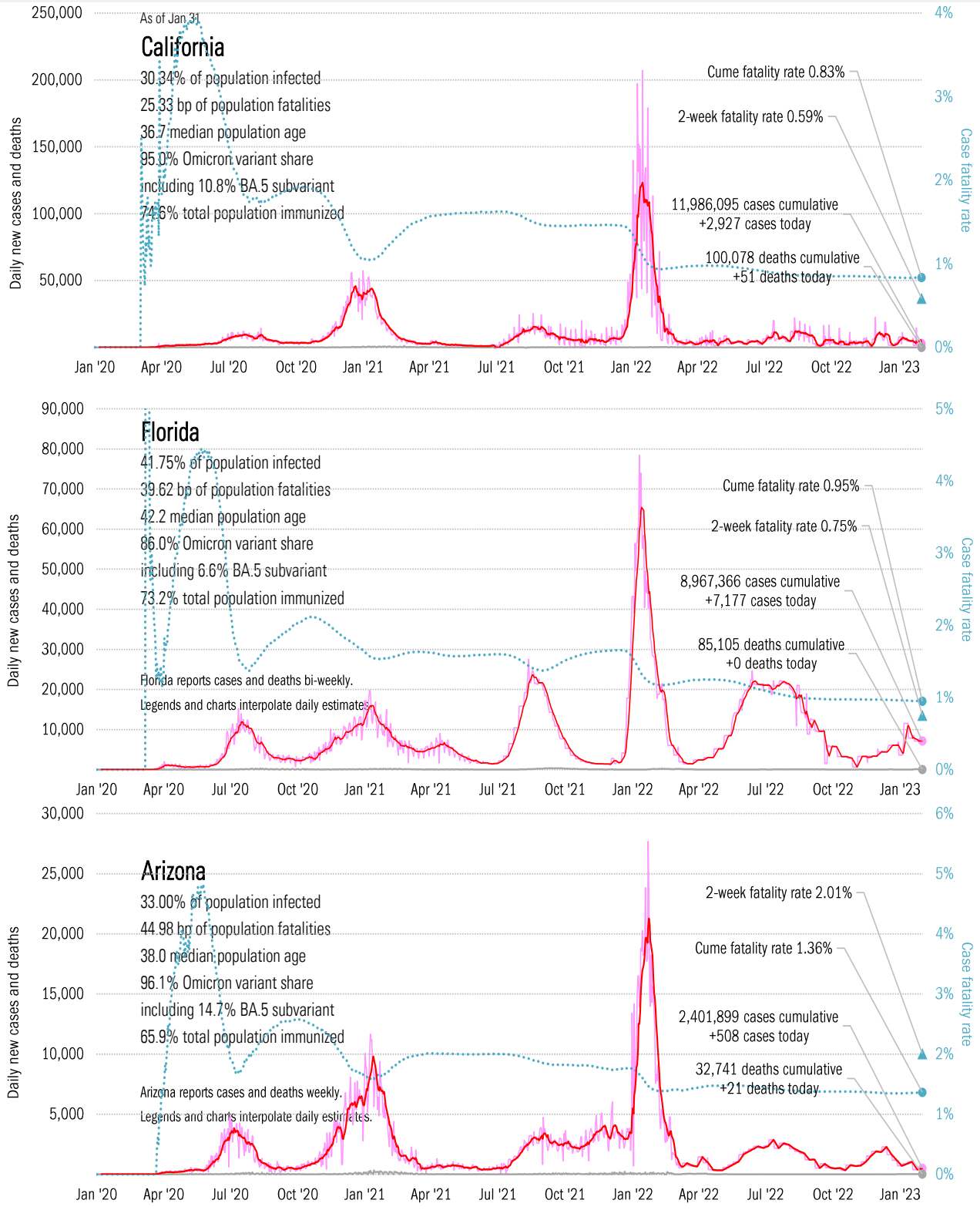
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## The sun-belt hot-spot states

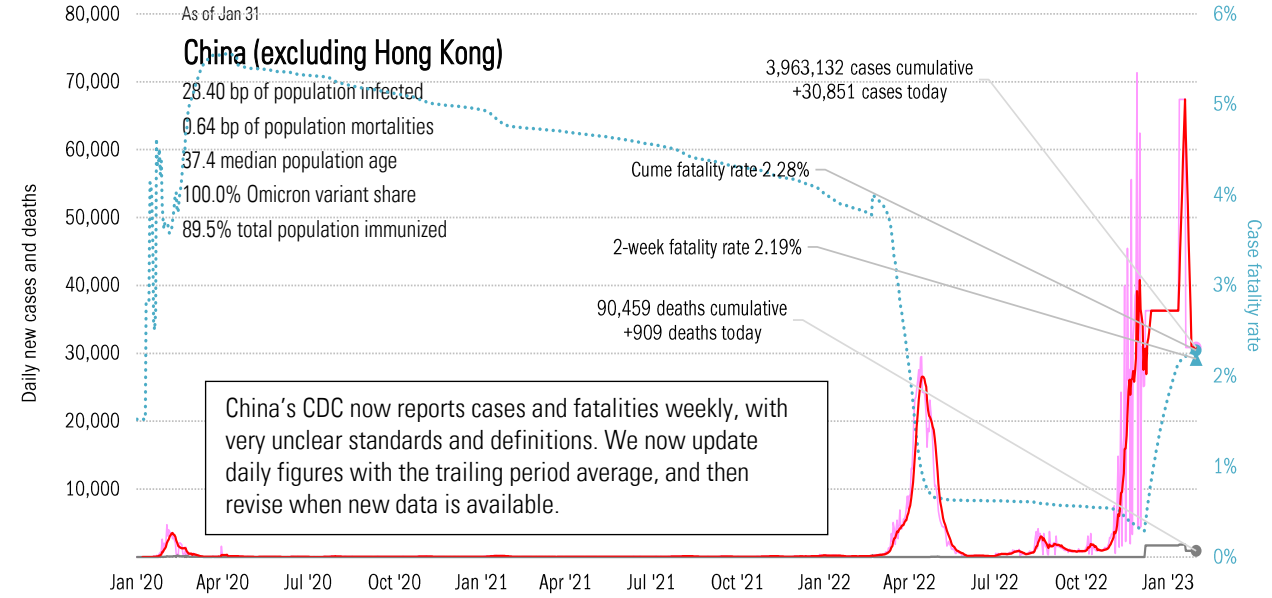
Cases: 7-day average and daily  Deaths: Daily

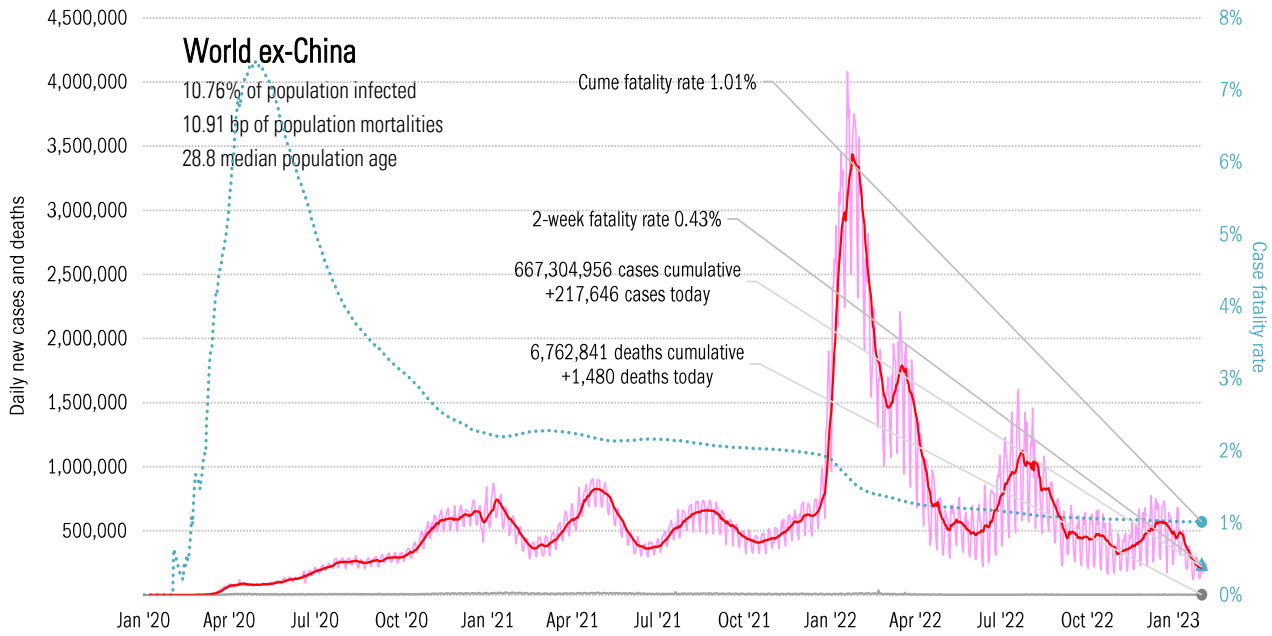



Source: Johns Hopkins, TrendMacro calculations

## Patient zero… and then everyone else

Cases: 7-day average and daily  Deaths: Daily

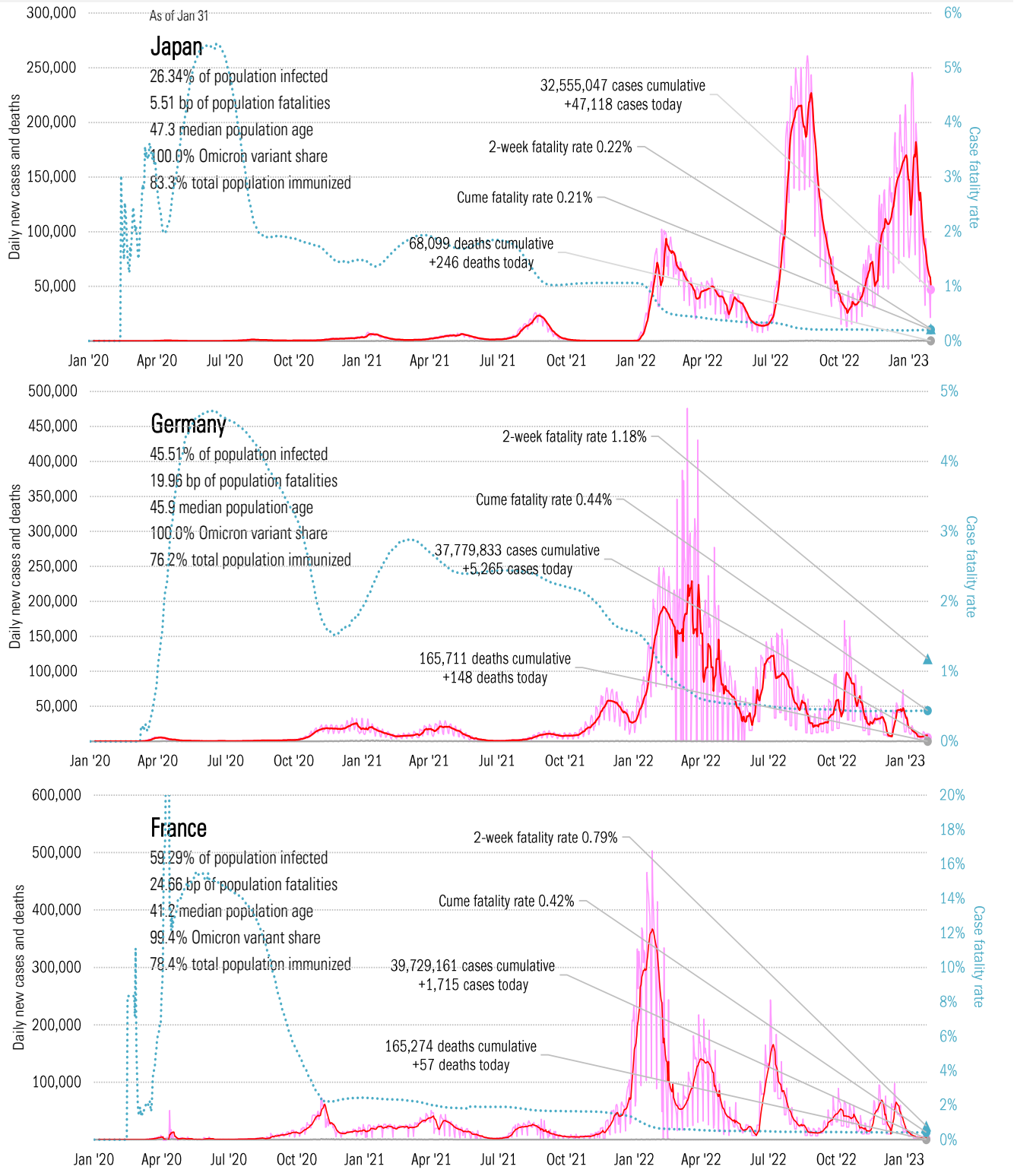



Source: Johns Hopkins, China CDC, TrendMacro calculations

## Impact in the largest economies

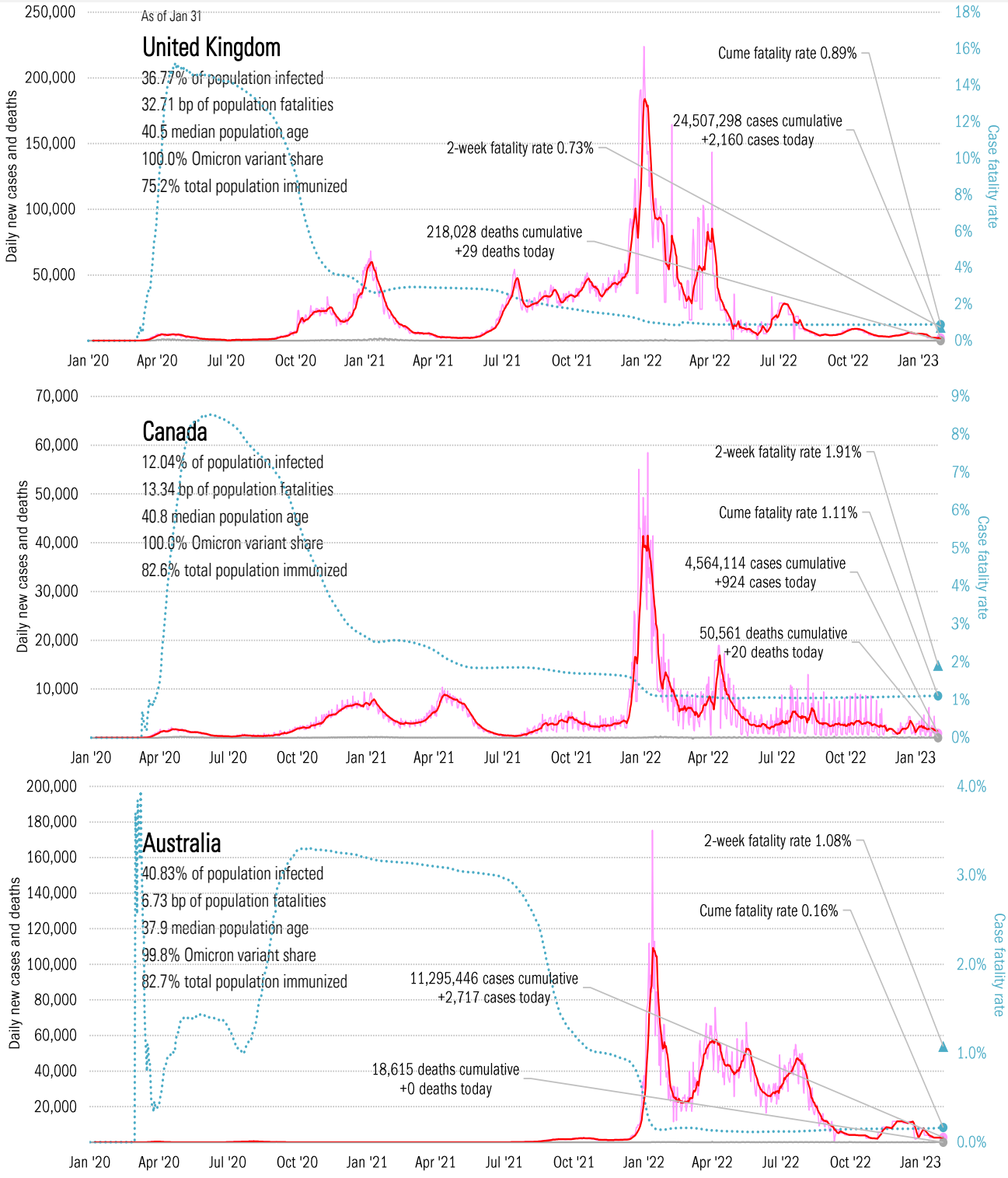
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in The Anglosphere

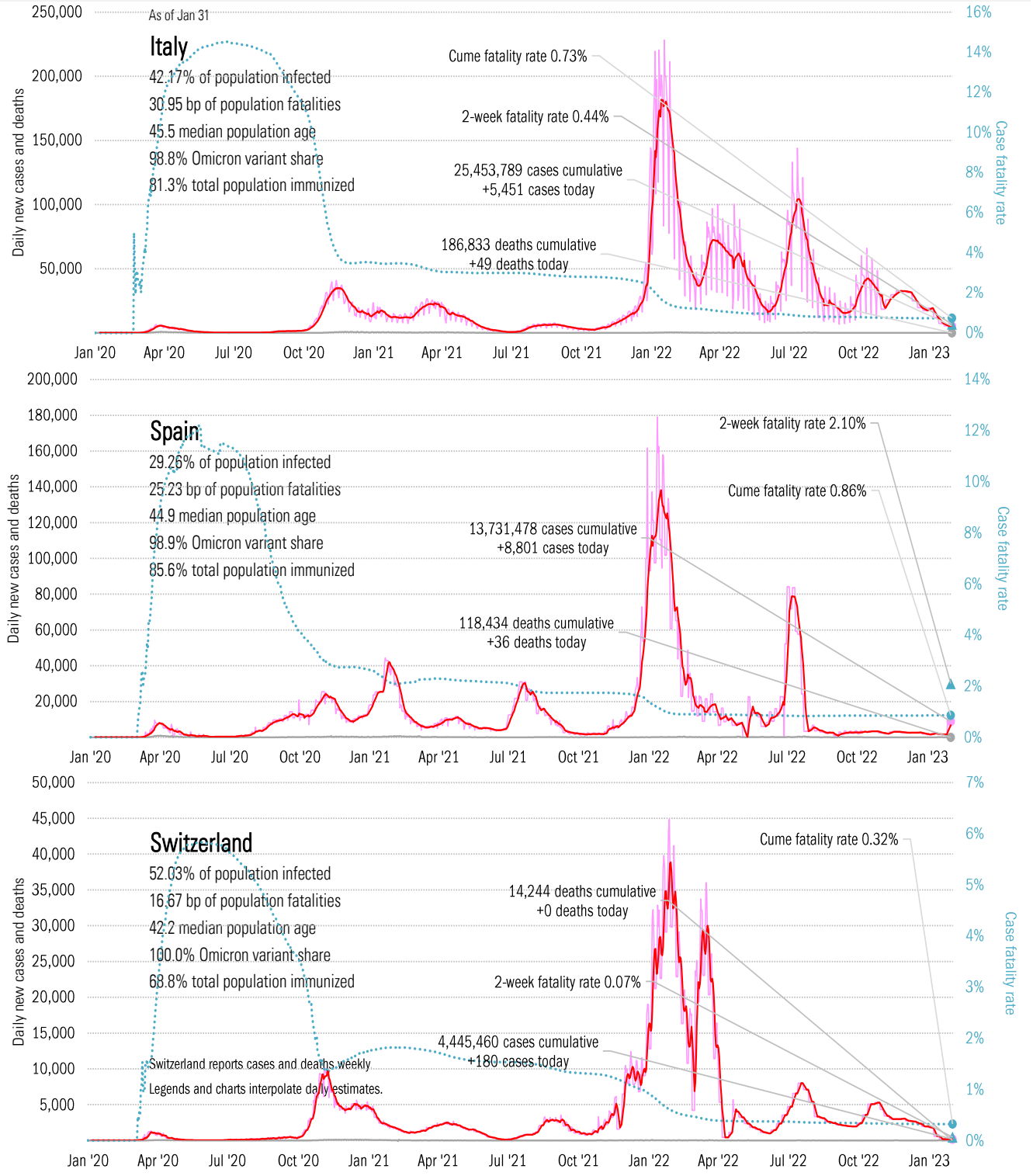
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in continental Europe

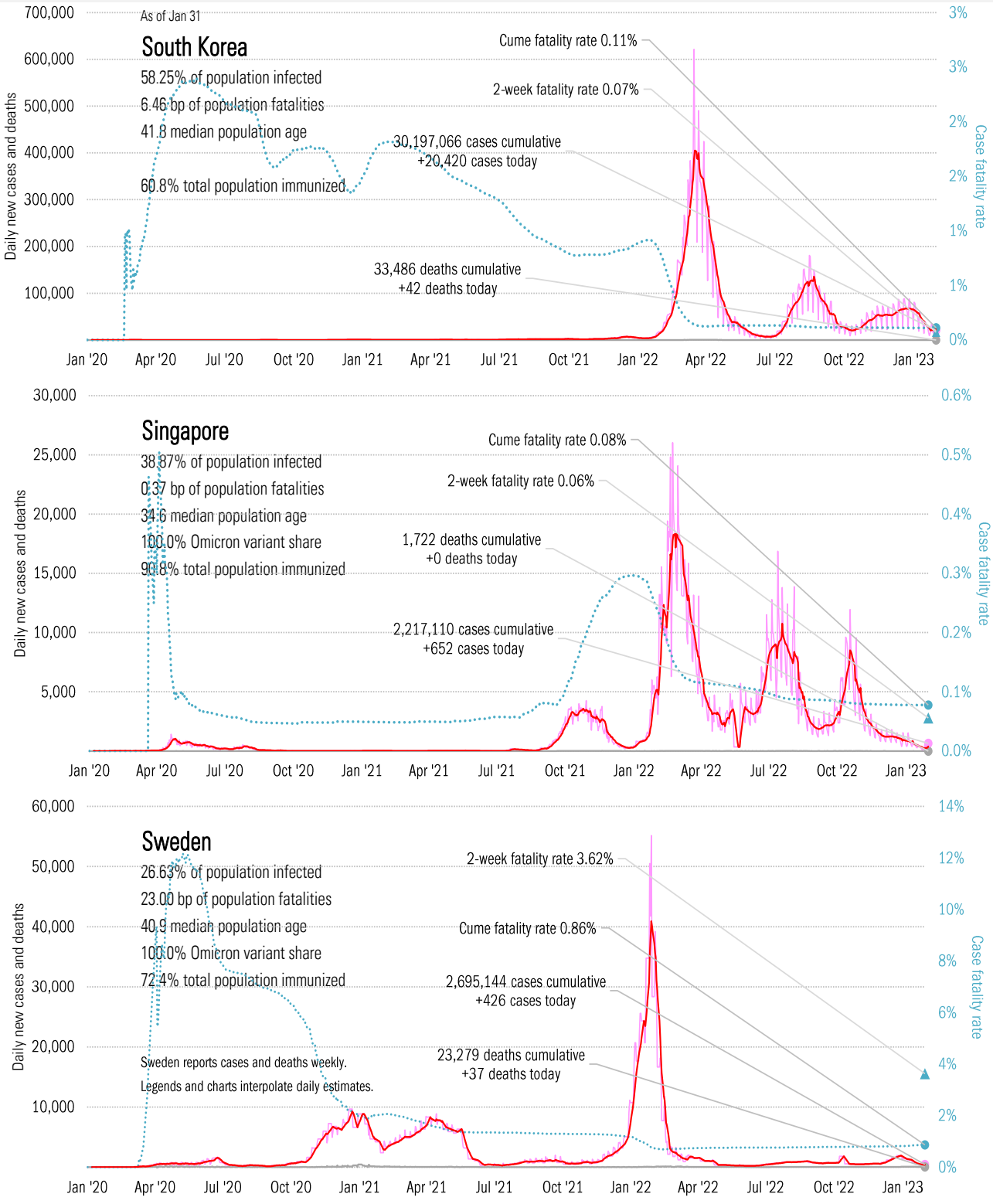
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in other hot-spots

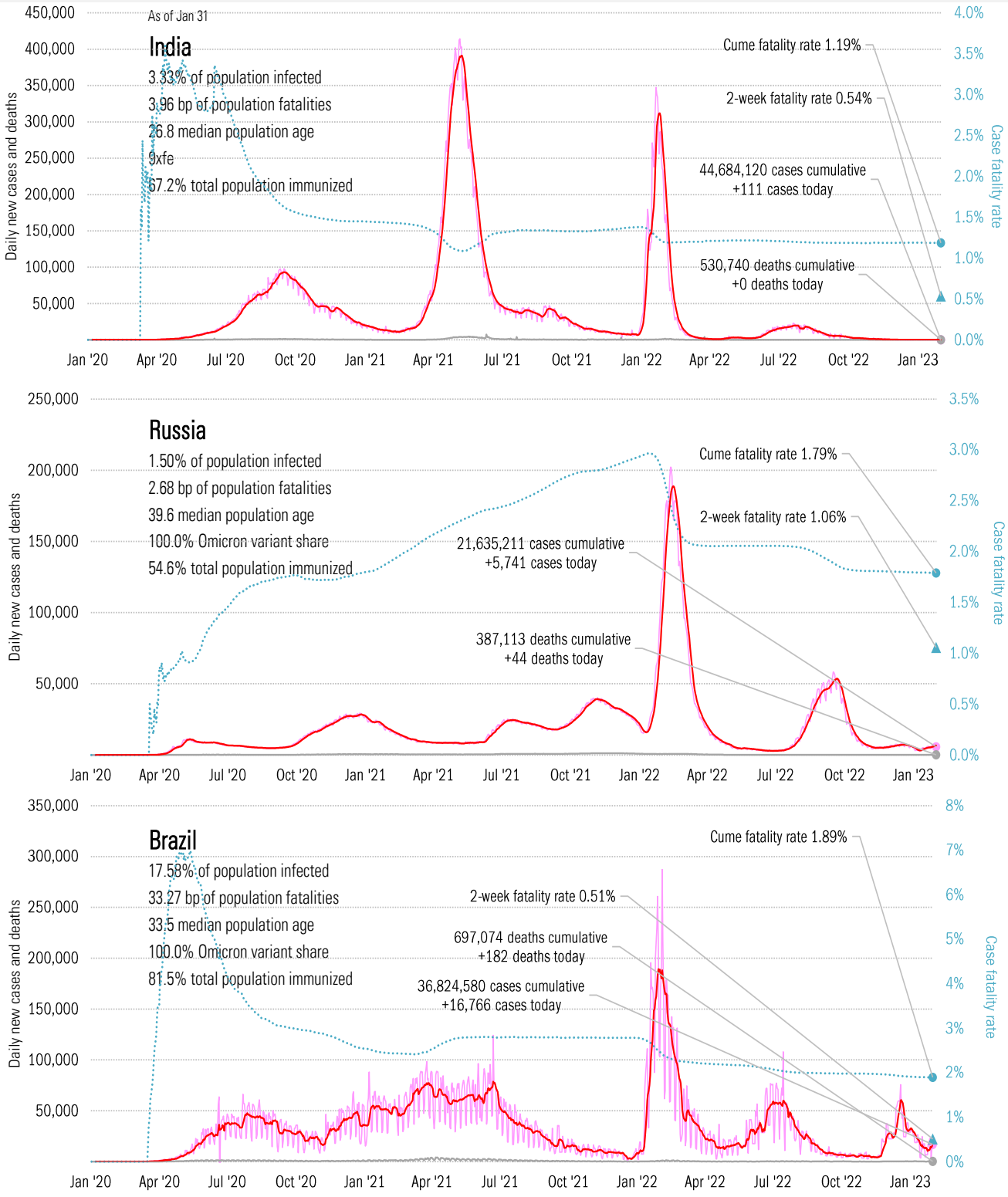
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in the BRICs ex-China

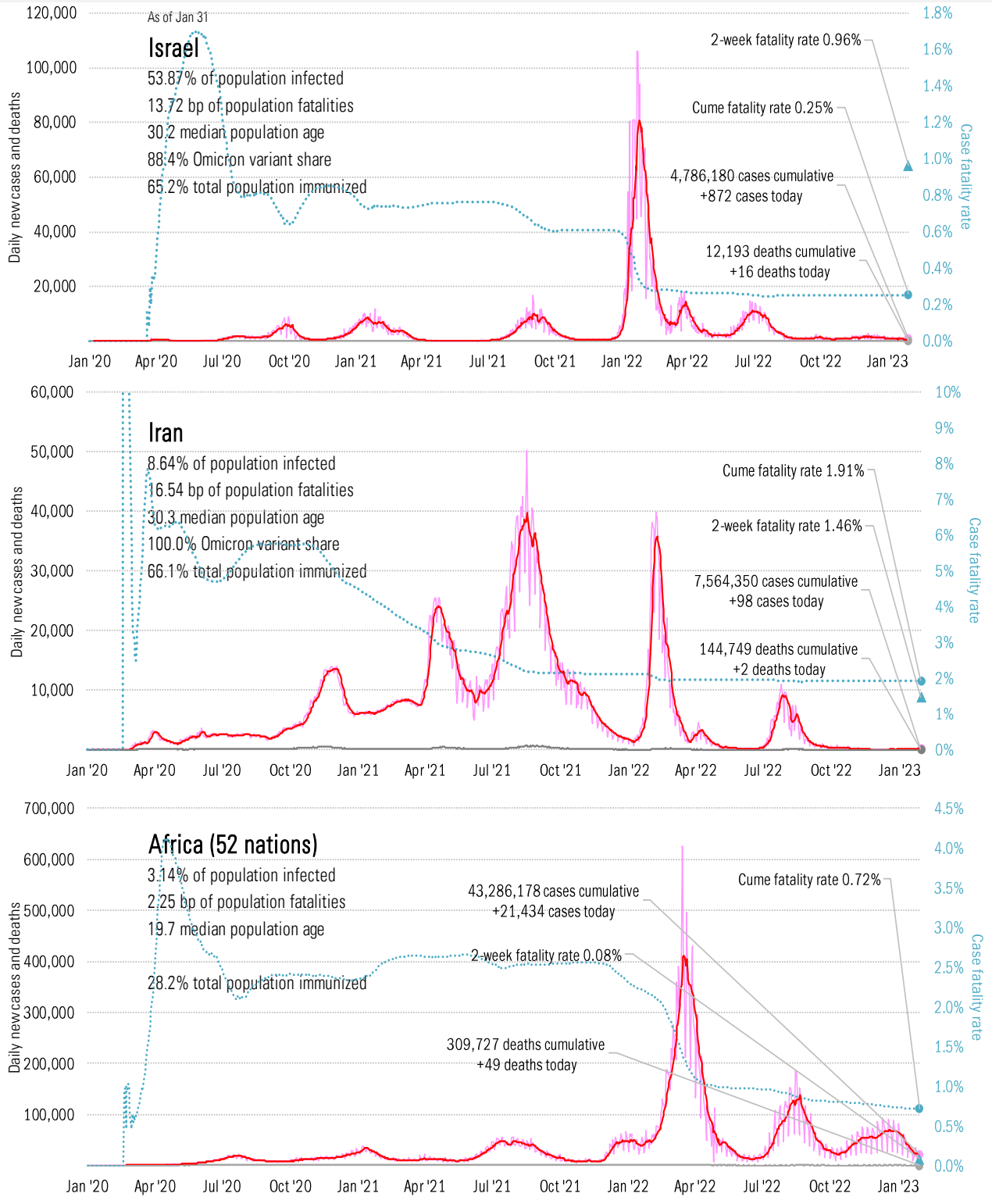
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in the Middle East and Africa

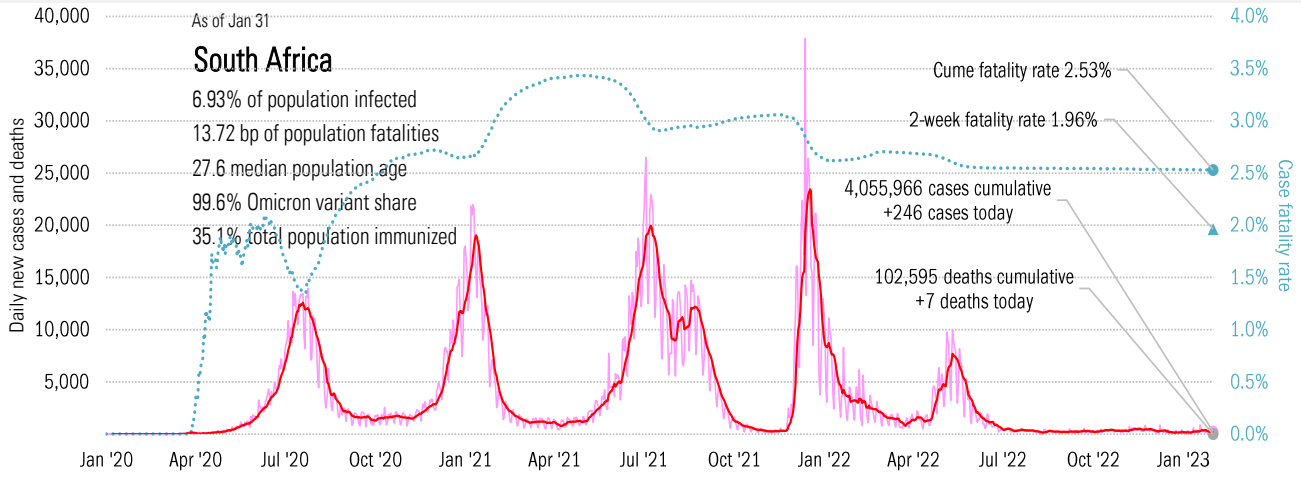
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in Africa, continued

Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, Trend Macro calculations