

Data Insights: Covid-2019 Monitor

Monday, September 26, 2022

The global scorecard

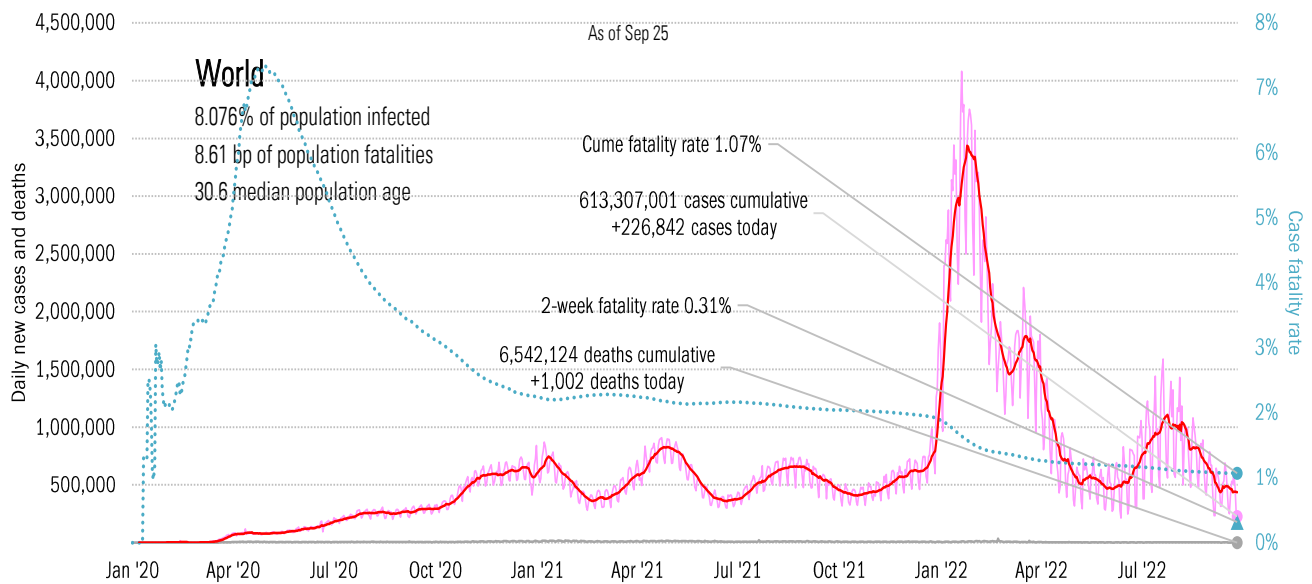
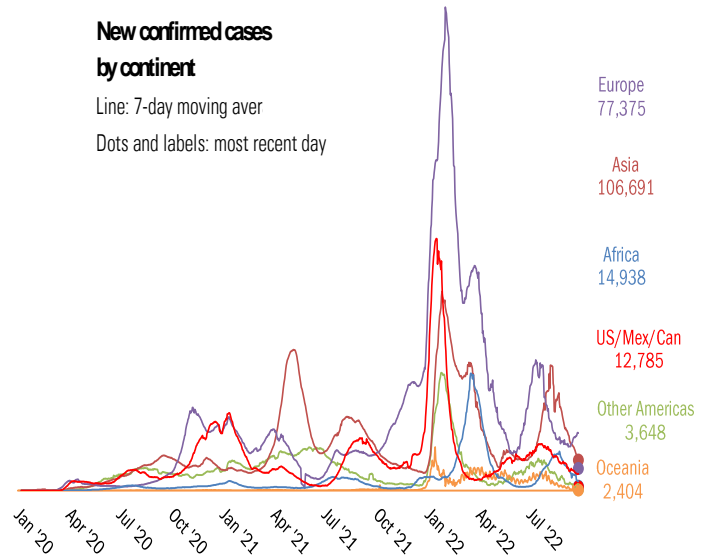
Cases: **7-day average** and **daily** Deaths: Daily

The worst ten countries

| New cases | | New Deaths | |
|----------------|---------|---------------|-------|
| United States | 80,940 | United States | 483 |
| Japan | 46,720 | Russia | 95 |
| Russia | 46,223 | Japan | 49 |
| Taiwan* | 38,958 | Argentina | 42 |
| Italy | 18,794 | Taiwan* | 34 |
| Korea, South | 14,168 | Korea, South | 33 |
| Austria | 6,916 | Philippines | 31 |
| Argentina | 4,482 | India | 20 |
| India | 4,129 | Peru | 20 |
| Chile | 4,052 | Chile | 16 |
| 265,382 | | 823 | |
| World | 226,842 | World | 1,002 |
| Top ten | 117% | Top ten | 82% |

New confirmed cases by continent

Line: 7-day moving aver
Dots and labels: most recent day



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

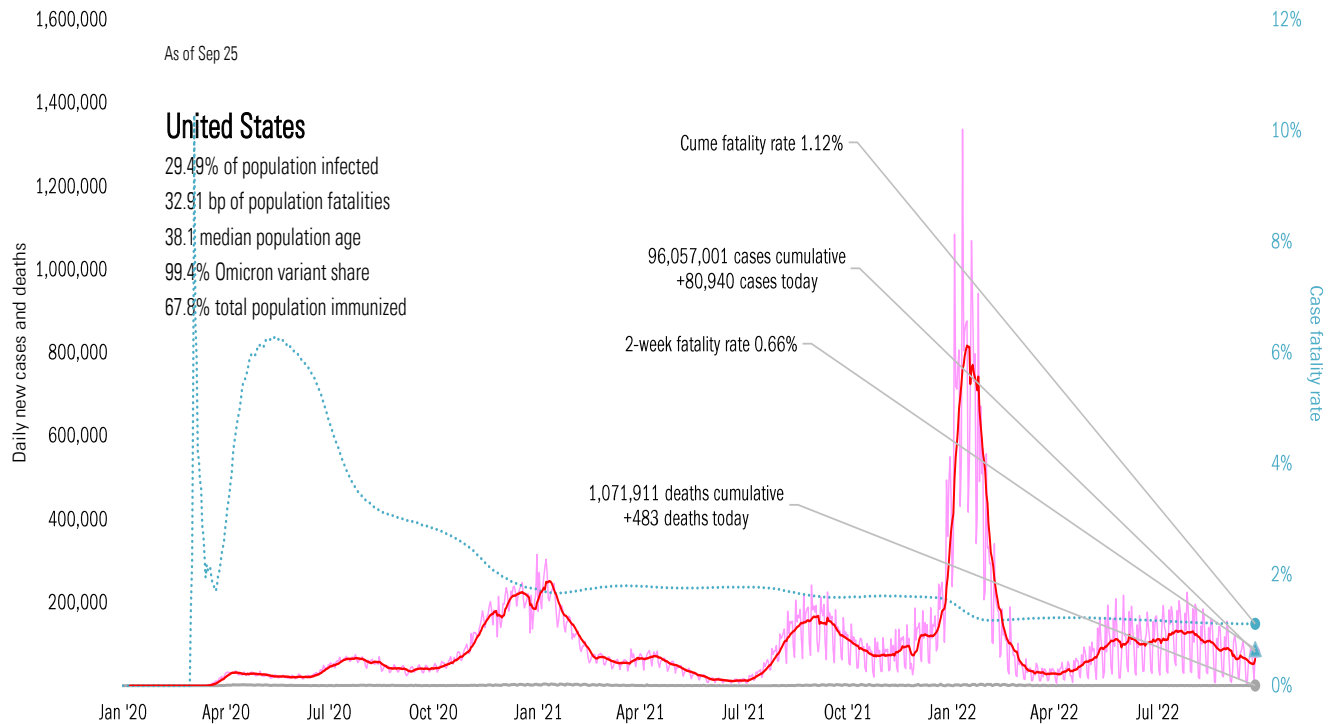
The ten worst US states

| New cases | | | New deaths | | | New in hospital | | | Cumulative cases | | | Cumulative deaths | | | Cumulative in hospital | | | Hospital use | | ICU use | |
|------------|--------|--|------------|----|--|-----------------|-----|--|------------------|------------|--|-------------------|--------|--|------------------------|---------|--|--------------|-----|---------|-----|
| PA | 16,515 | | TX | 61 | | PA | 195 | | CA | 11,233,276 | | CA | 95,796 | | TX | 544,668 | | RI | 92% | RI | 87% |
| TX | 6,761 | | FL | 51 | | NY | 250 | | TX | 7,974,235 | | TX | 90,790 | | CA | 498,148 | | MA | 89% | MA | 85% |
| MO | 6,063 | | IN | 29 | | TX | 333 | | FL | 7,133,653 | | FL | 81,236 | | FL | 492,239 | | MN | 86% | AK | 84% |
| FL | 5,774 | | WA | 29 | | NC | 138 | | NY | 6,094,999 | | NY | 71,646 | | NY | 298,002 | | WA | 84% | VT | 84% |
| CA | 4,640 | | NY | 27 | | MA | 114 | | IL | 3,751,275 | | PA | 47,098 | | GA | 225,470 | | MO | 84% | TX | 83% |
| KY | 3,056 | | MI | 21 | | WA | 78 | | PA | 3,239,298 | | GA | 40,171 | | CH | 217,529 | | GA | 83% | AL | 83% |
| NC | 2,898 | | GA | 21 | | GA | 131 | | NC | 3,182,775 | | CH | 39,767 | | PA | 202,827 | | DC | 82% | NC | 83% |
| NY | 2,701 | | VA | 20 | | NM | 31 | | CH | 3,131,645 | | IL | 39,624 | | IL | 186,003 | | MD | 82% | WA | 82% |
| WA | 2,520 | | PA | 18 | | OK | 55 | | GA | 2,900,354 | | MI | 38,464 | | MI | 161,833 | | AK | 81% | NM | 80% |
| MI | 2,414 | | AR | 17 | | WI | 76 | | MI | 2,821,489 | | NJ | 34,716 | | KY | 144,814 | | DE | 81% | GA | 80% |
| 53,342 | | | 294 | | | 1,401 | | | 51,462,999 | | | 579,308 | | | 2,971,533 | | | | | | |
| All states | 80,940 | | 483 | | | 3,776 | | | All states | 96,057,001 | | 1,071,911 | | | 5,390,495 | | | All states | 70% | 67% | |
| Top ten | 66% | | 61% | | | 37% | | | Top ten | 54% | | 55% | | | 55% | | | Median | 76% | 72% | |

Some states not reporting

Five most improved US states

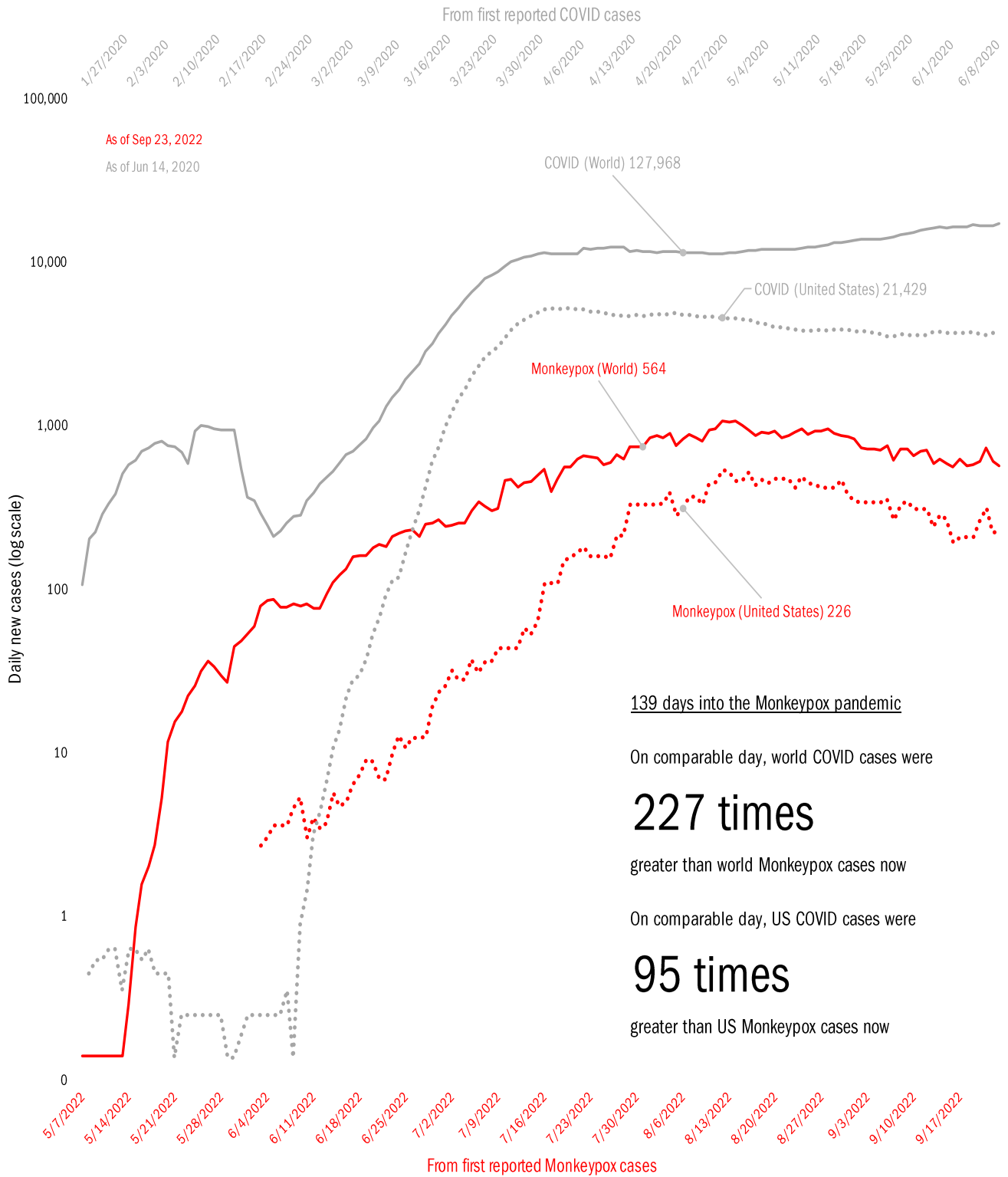
| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | |
|-------------------|--------|------------------|----|----------------------------|-----|
| NJ | -1,300 | NJ | -8 | MI | -19 |
| NY | -434 | ME | -3 | MO | -18 |
| CT | -374 | AK | 0 | UT | -14 |
| AR | -222 | AL | 0 | CT | -12 |
| AK | 0 | AR | 0 | KS | -6 |



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

The Monkeypox contextualizer

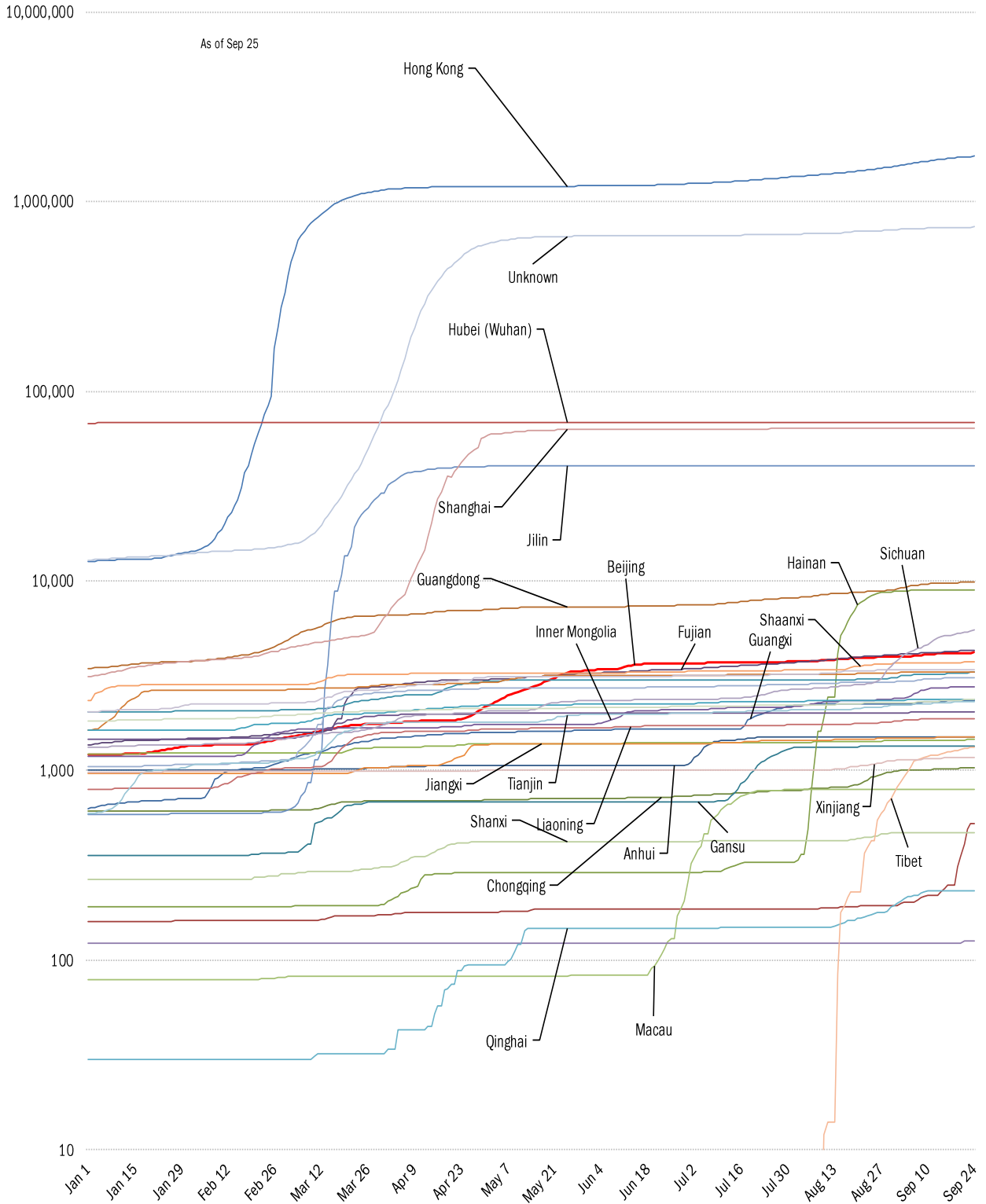
The course of case growth versus COVID



Source: [Our World In Data](#), TrendMacro calculations

China provincial coronavirus case accelerometer... tracking the "zero Covid" curves

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

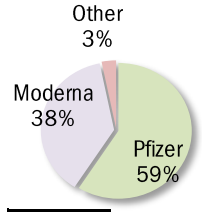


Source: [Johns Hopkins](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Updates weekly on Friday

| Administered | Cumulative | | Today | Immunity | Full | Partial |
|-------------------|-------------|-------|----------------|----------|------------------|-----------------------|
| Doses | 631,639,689 | | +0.490 million | US | 67.8% | 79.5% |
| of which boosters | 111,721,786 | | +0.055 million | UK | 75.4% | 80.0% |
| | One dose | % Pop | Immune | % pop | New immune today | |
| Total population | 272,009,452 | 81% | 231,527,726 | 69% | +0.050 million | France 78.7% 80.9% |
| Age 12 to 17 | 18,203,927 | 72% | 15,554,814 | 61% | +0.002 million | Spain 85.6% 87.0% |
| Age 18 to 64 | 181,388,452 | 89% | 154,049,342 | 76% | +0.024 million | Germany 76.1% 77.7% |
| Age 65 and over | 59,876,702 | 100% | 52,388,902 | 96% | +0.011 million | Italy 81.0% 85.8% |
| | | | | | | Australia 84.0% 86.6% |
| | | | | | | Israel 66.2% 72.3% |
| | | | | | | Canada 82.7% 87.2% |
| | | | | | | Japan 82.5% 83.6% |
| | | | | | | Africa 22.6% 28.5% |
| | | | | | | India 67.3% 72.9% |
| | | | | | | Brazil 80.3% 87.2% |
| | | | | | | China 89.1% 91.4% |



| | |
|----|-------|
| AK | 71.7% |
| | 63.5% |

| State | Best |
|---|--------|
| At least partial immunity as % population | Middle |
| Full immunity as % population | Worst |

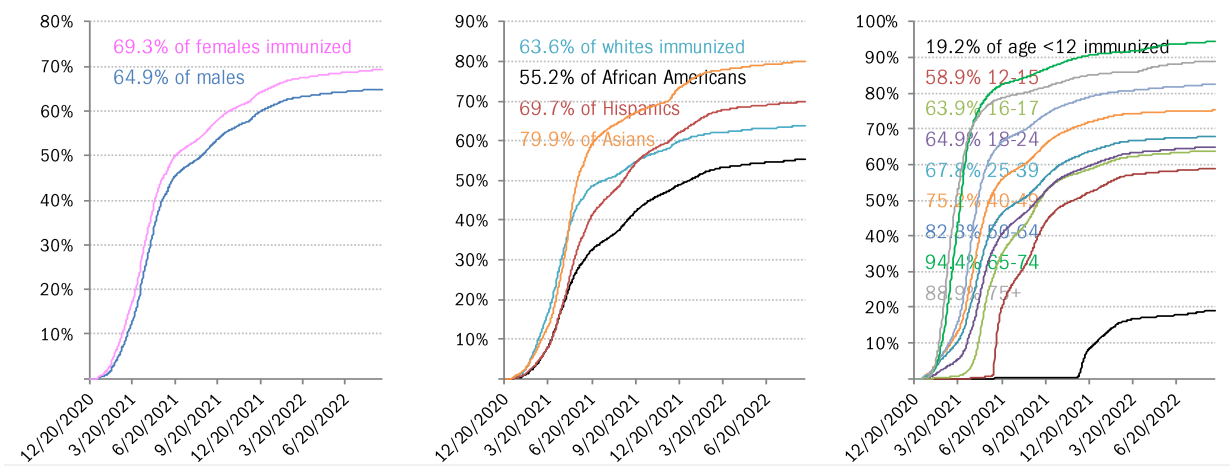
"Immunity" = two doses

Global data differs due to sources, timing

As of Sep 23

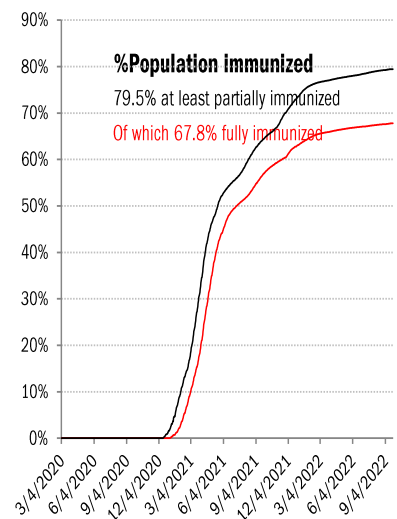
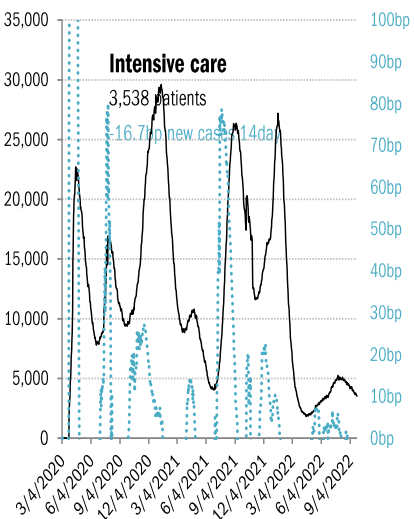
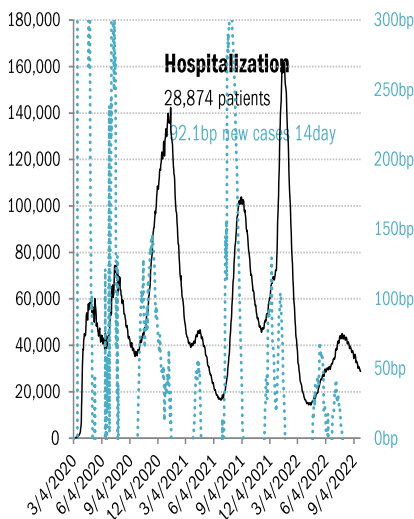
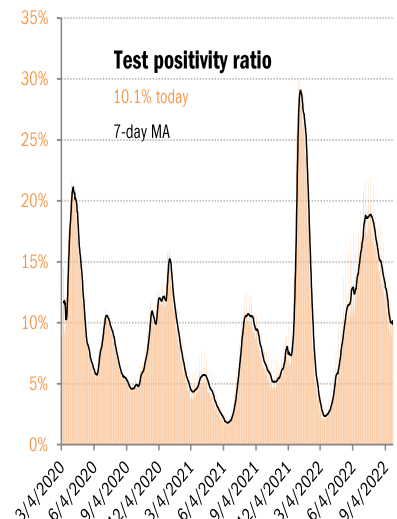
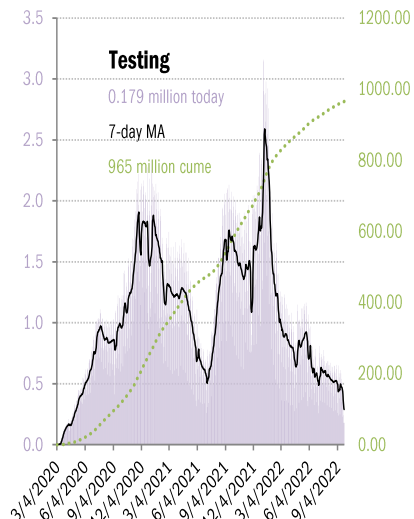
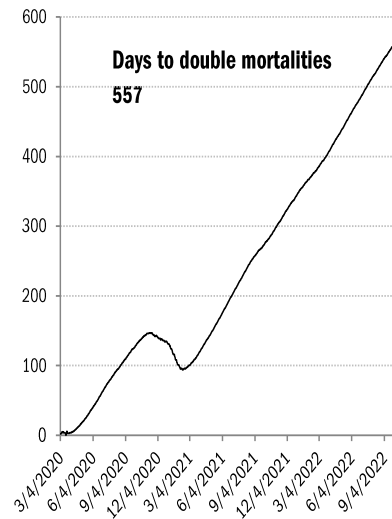
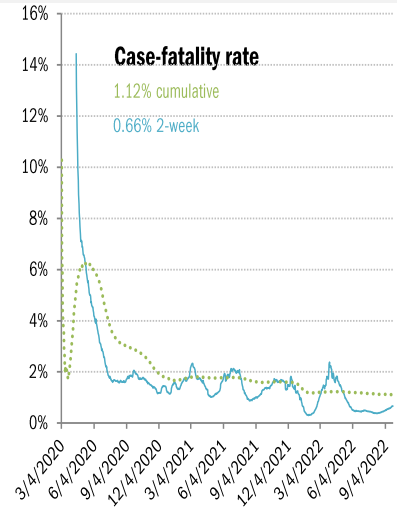
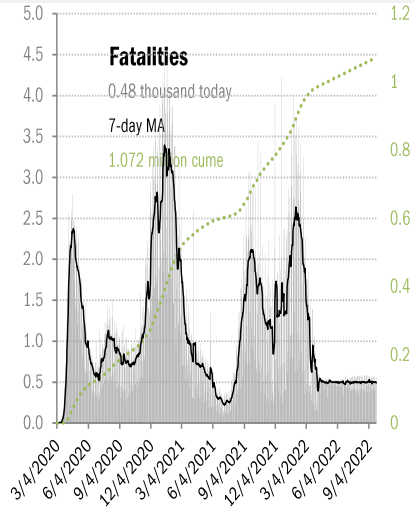
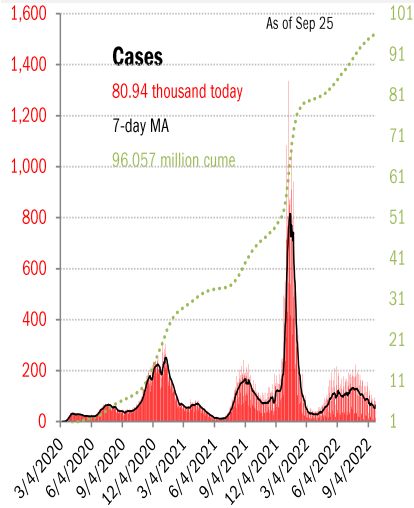
| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | WI | | | | | | ME |
| | | | | | 73.4% | | | | | | 93.5% |
| | | | | | 66.8% | | | | | | 81.5% |
| WA | ID | MT | ND | MN | IL | MI | | | NY | VT | NH |
| 83.2% | 62.6% | 66.8% | 67.3% | 77.0% | 77.5% | 68.3% | | | 92.3% | 95.0% | 91.4% |
| 74.0% | 55.3% | 58.0% | 56.8% | 70.6% | 69.8% | 61.3% | | | 78.8% | 83.2% | 72.8% |
| OR | NV | WY | SD | IA | IN | OH | PA | | NJ | MA | |
| 79.7% | 77.2% | 59.4% | 79.8% | 69.4% | 63.3% | 64.6% | 87.8% | | 92.7% | 95.0% | |
| 70.9% | 62.1% | 52.0% | 64.0% | 63.1% | 56.9% | 59.5% | 70.8% | | 77.4% | 81.2% | |
| CA | UT | CO | NE | MO | KY | WV | VA | MD | CT | RI | |
| 84.3% | 73.8% | 81.7% | 71.9% | 67.8% | 67.6% | 66.4% | 88.2% | 89.3% | 95.0% | 95.0% | |
| 73.7% | 65.5% | 71.8% | 64.9% | 57.5% | 58.5% | 58.8% | 74.9% | 77.7% | 81.1% | 85.3% | |
| | AZ | NM | KS | AR | TN | NC | SC | DC | DE | | |
| | 75.8% | 90.8% | 74.4% | 68.4% | 63.5% | 87.9% | 69.5% | 95.0% | 85.7% | | |
| | 63.4% | 73.0% | 63.6% | 55.7% | 55.6% | 64.0% | 58.5% | 80.2% | 71.2% | | |
| | | | OK | LA | MS | AL | GA | | | | |
| | | | 72.9% | 62.1% | 61.0% | 64.1% | 67.1% | | | | |
| | | | 58.8% | 54.4% | 53.1% | 52.3% | 56.2% | | | | |
| | | | TX | | | | | | | | |
| | | | 74.7% | | | | | | | | |
| | | | 62.2% | | | | | | | | |
| | | | | | | | | FL | | PR | |
| | | | | | | | | 81.1% | | 95.0% | |
| | | | | | | | | 68.4% | | 85.0% | |

The demographics of US vaccination

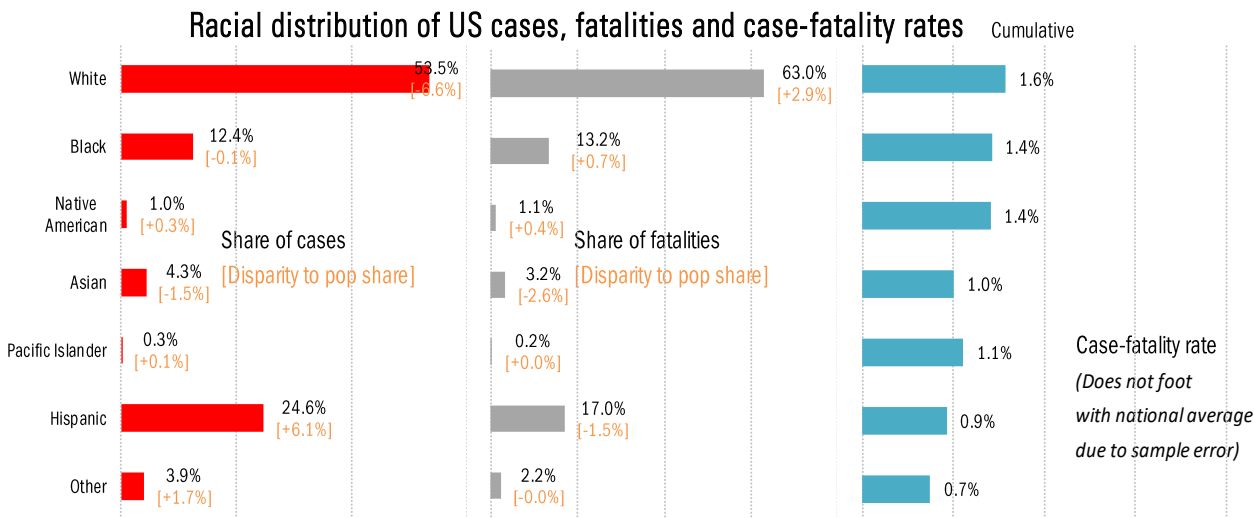
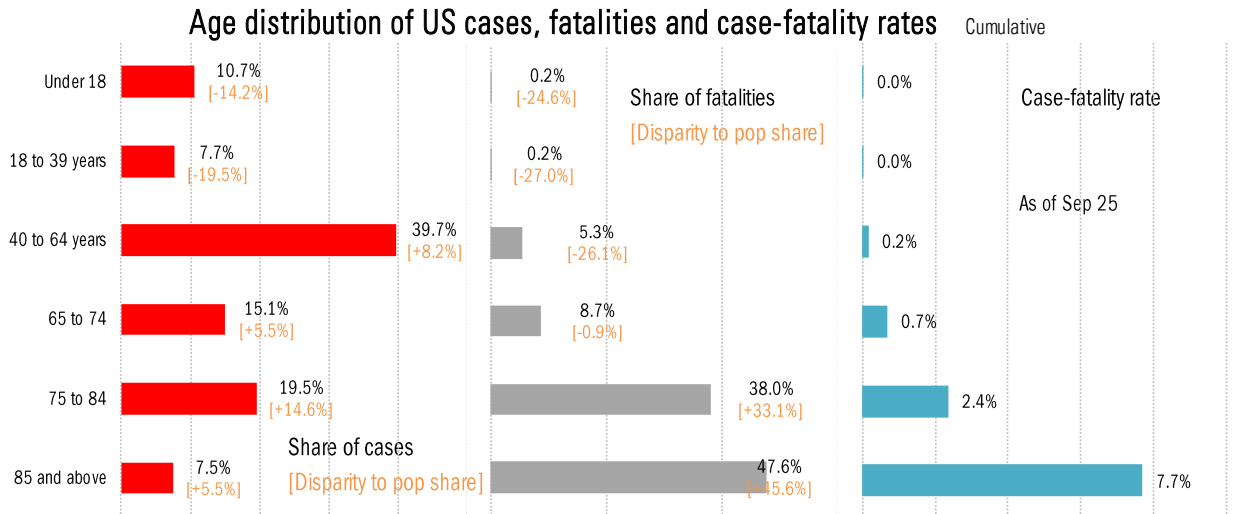


Source: CDC, CDC, Our World in Data, TrendMacro calculations

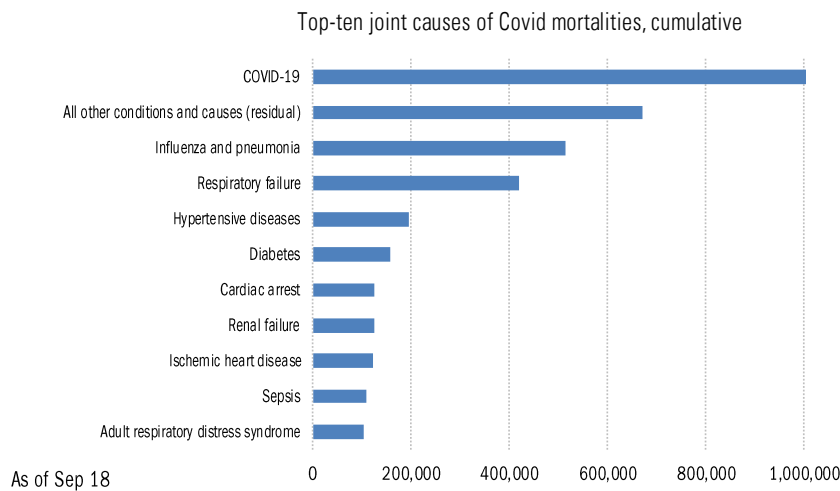
US deep-dive



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



Comorbidities



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.

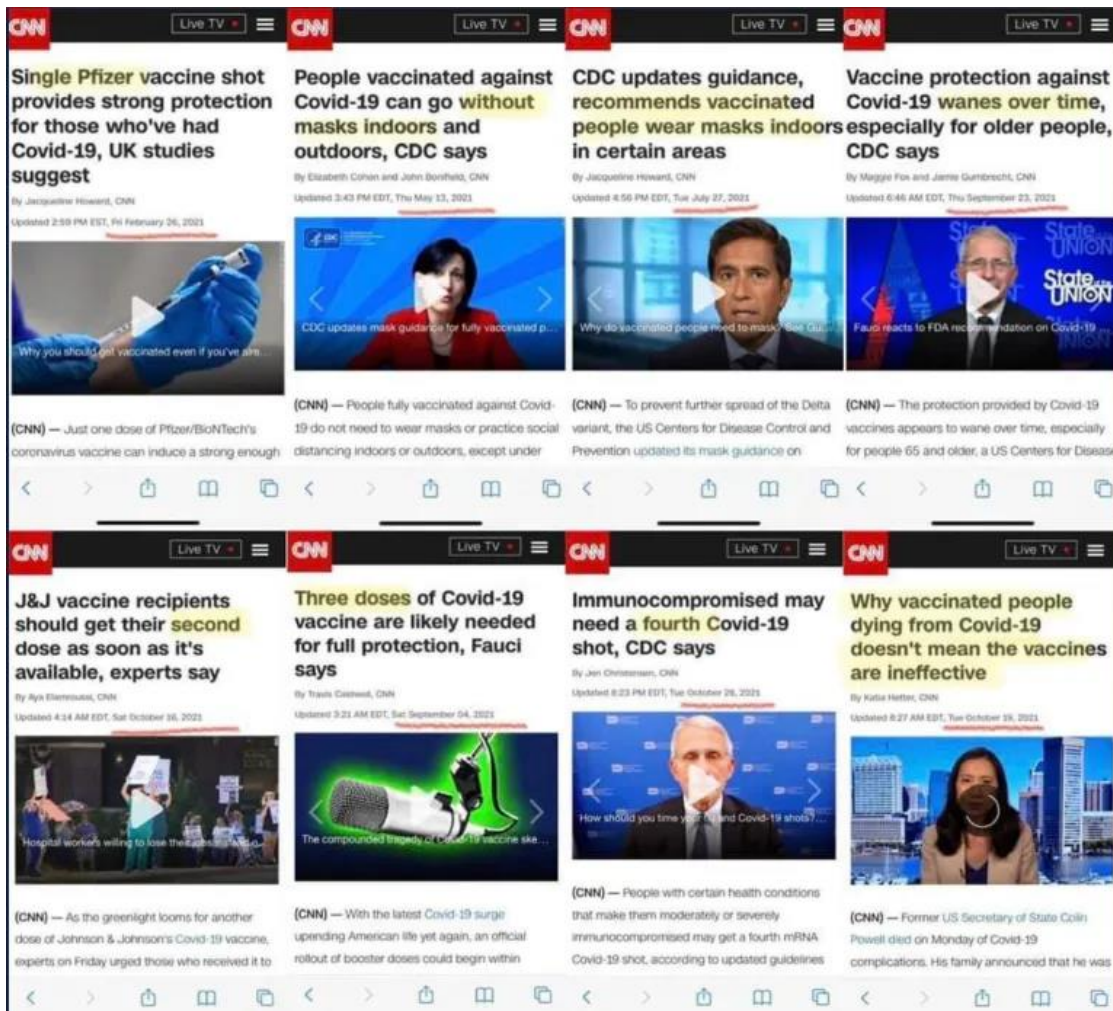
Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

Recommended reading

[Pfizer CEO tests positive for COVID-19 for second time in two months](#)

Jenny Goldsberry
Washington Examiner
September 25, 2022

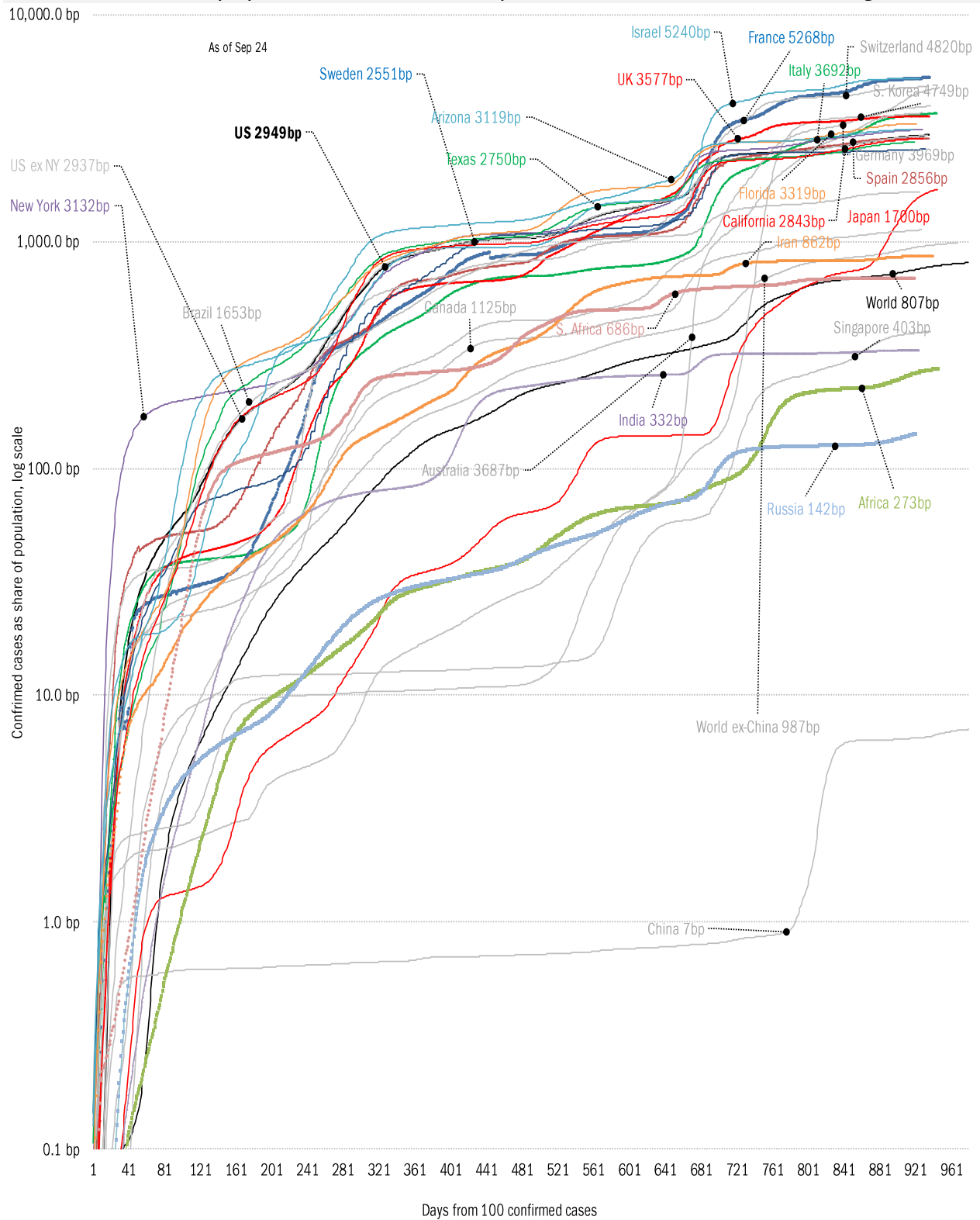
Meme of the day



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

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

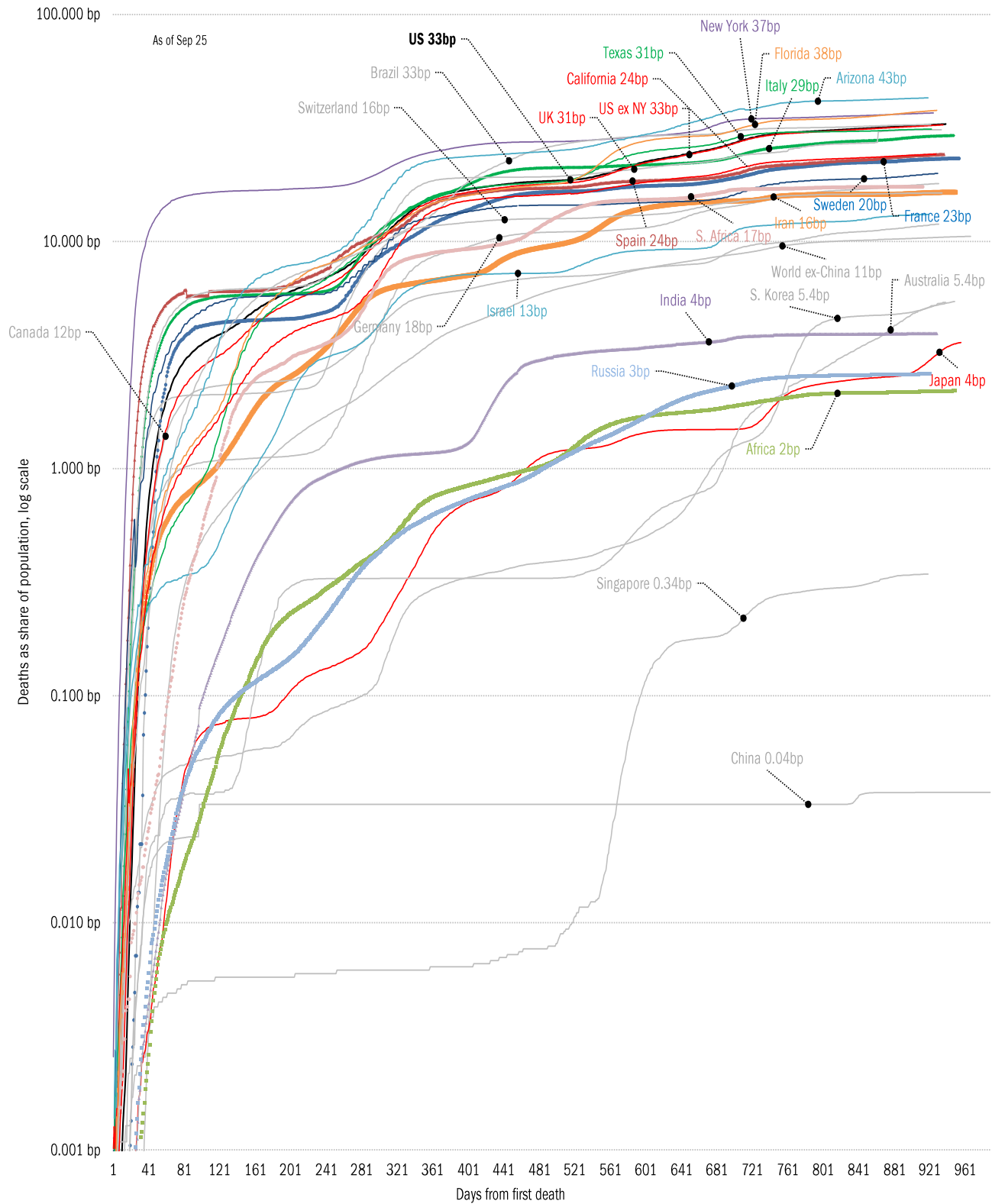
Share of infected population from first day with 100 confirmed cases, log scale



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

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

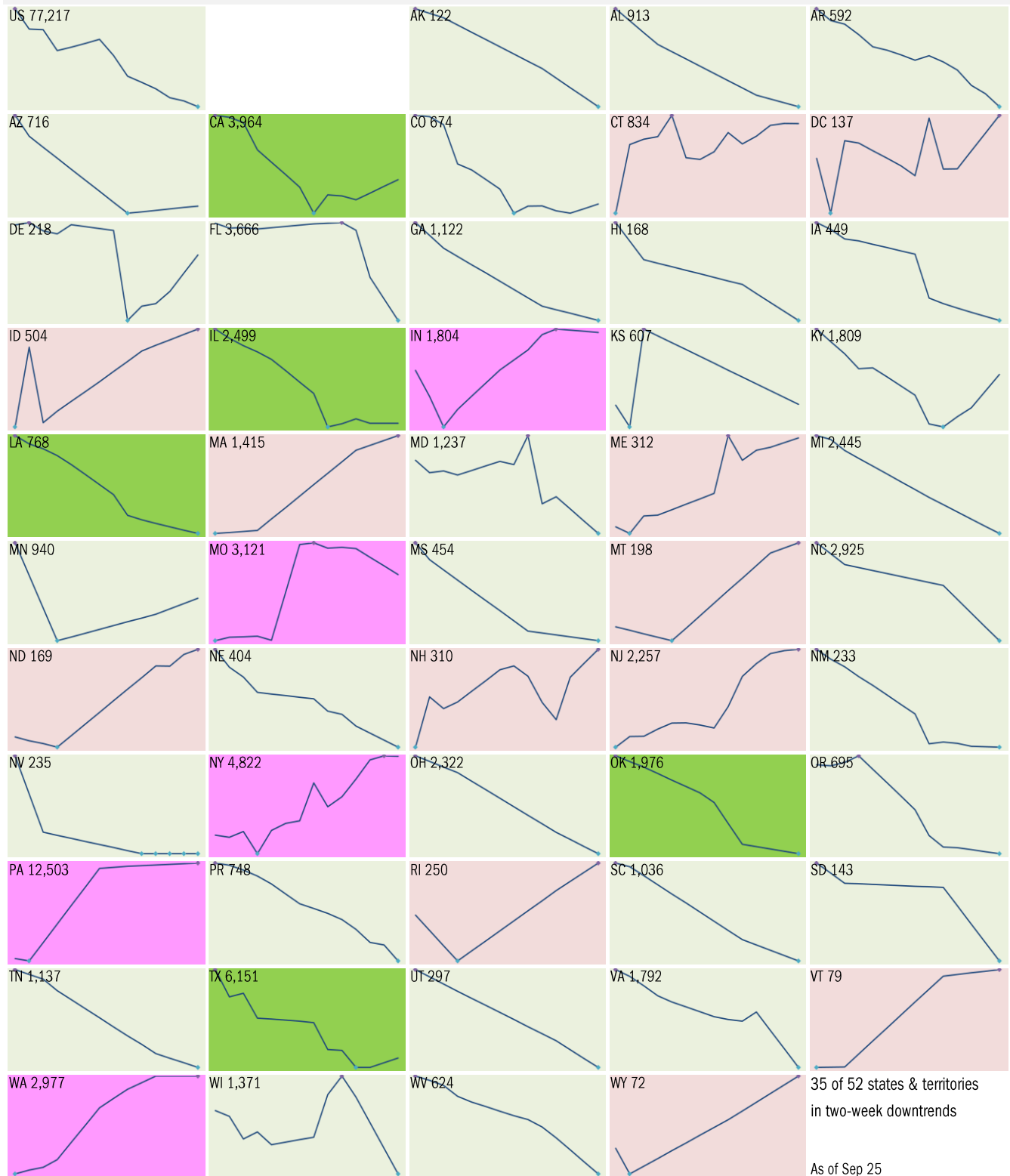


Source: [Johns Hopkins](#), TrendMacro calculations

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

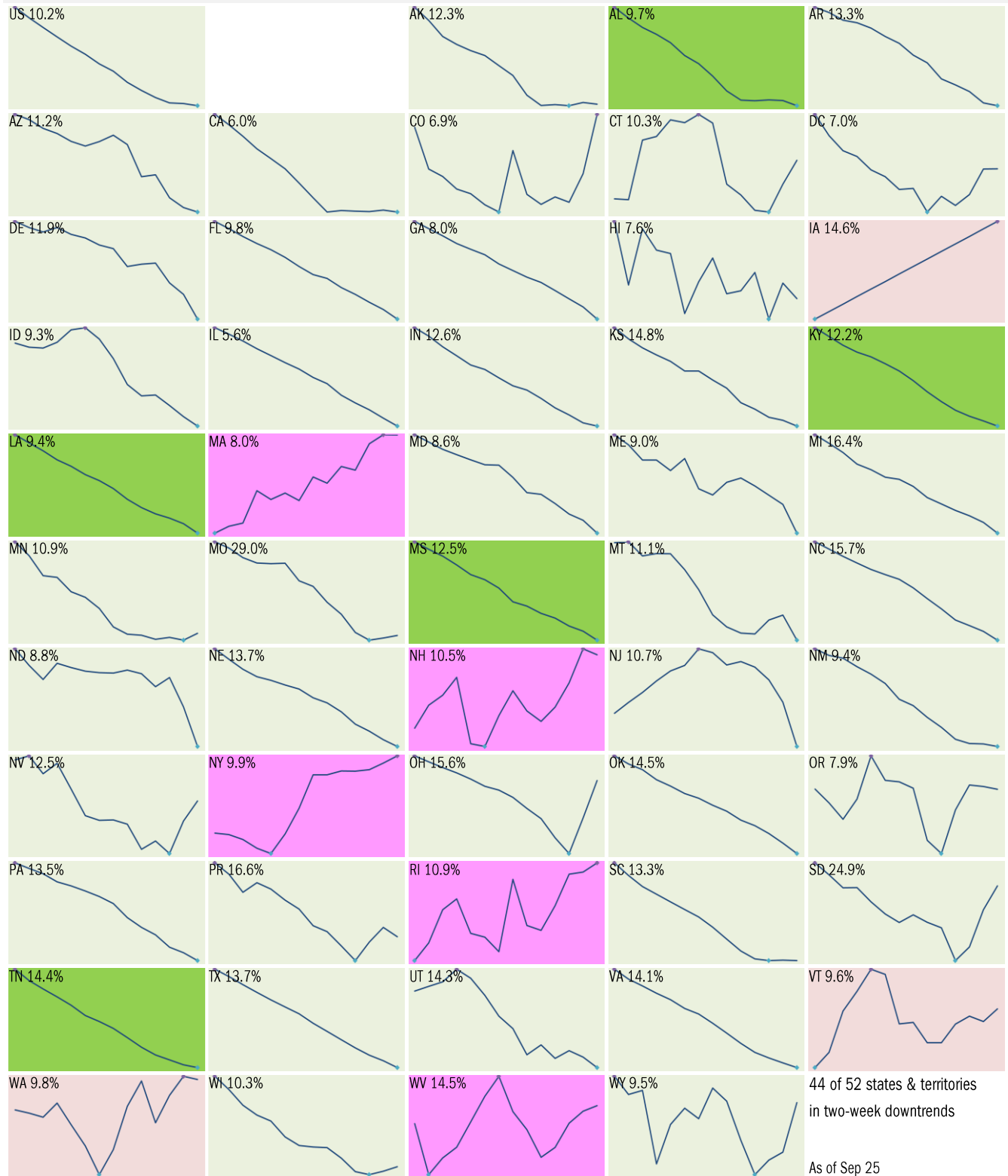


Source: [Johns Hopkins](#), TrendMacro calculations

14-day trajectory in test-positivity ratio

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

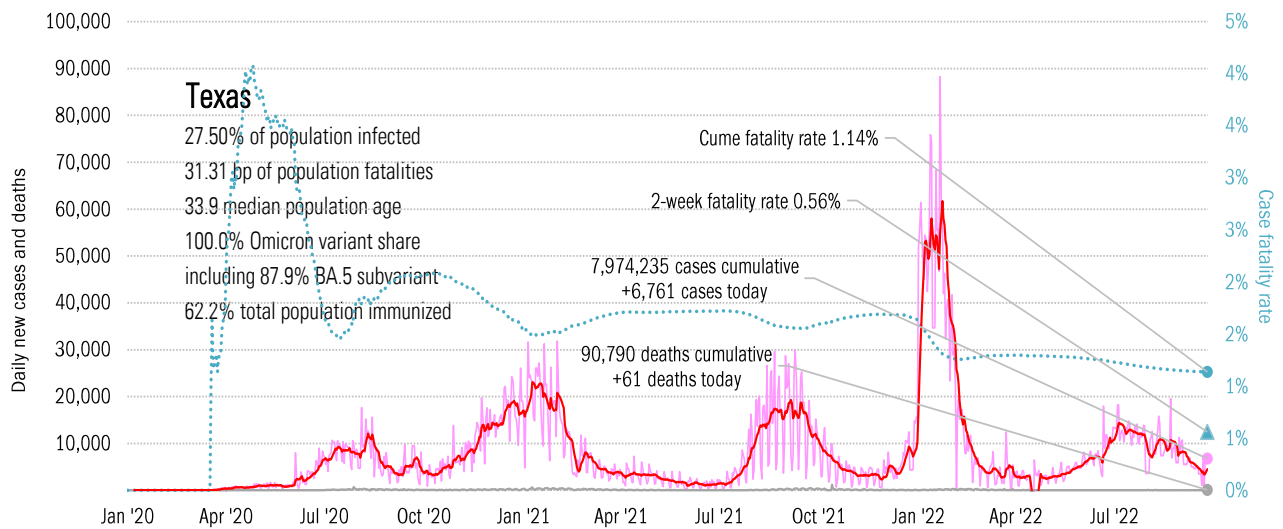
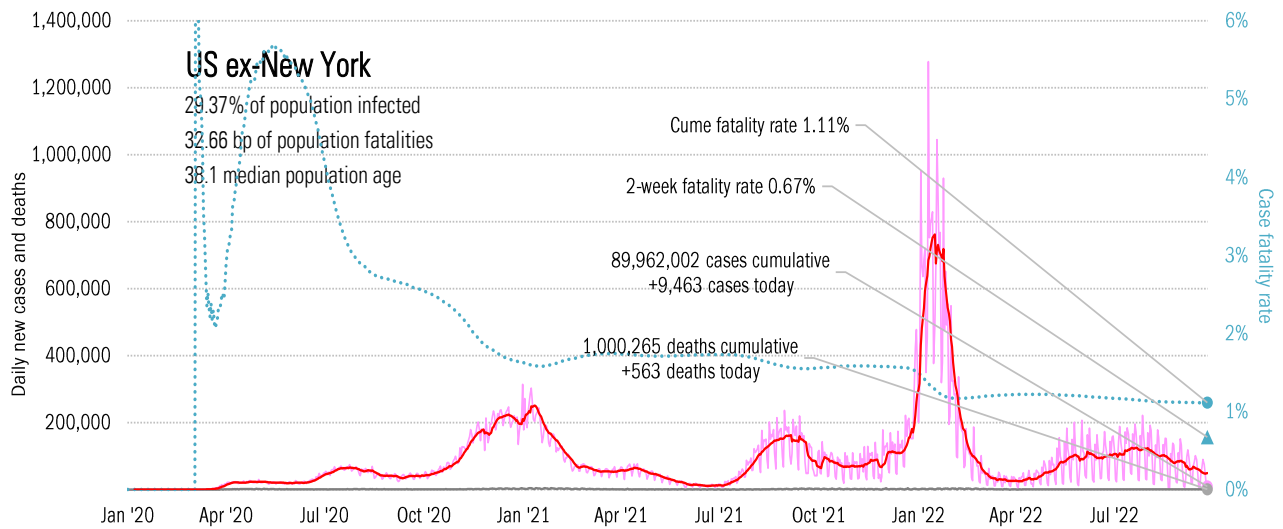
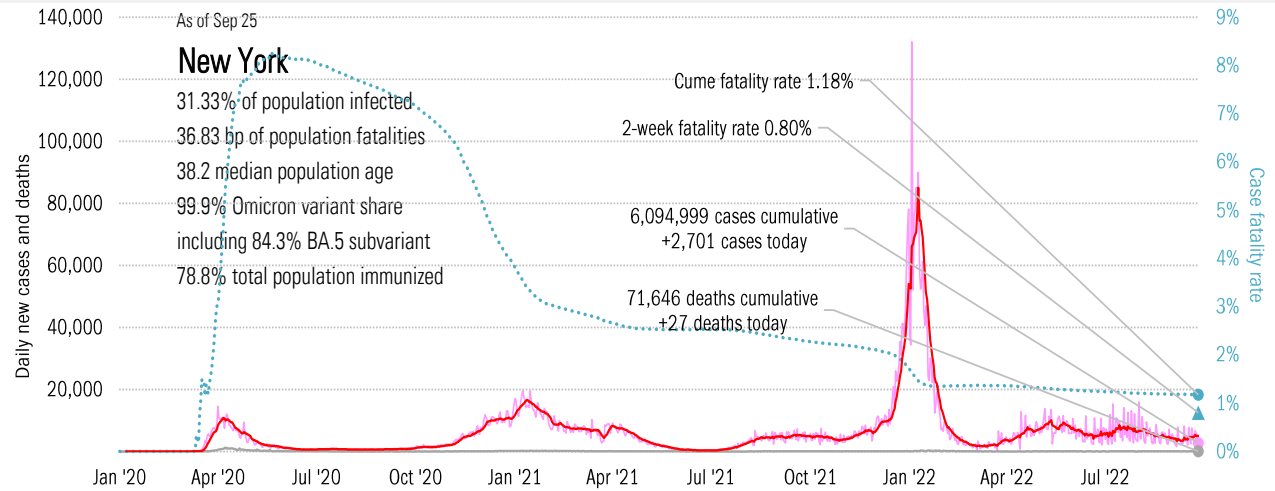
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

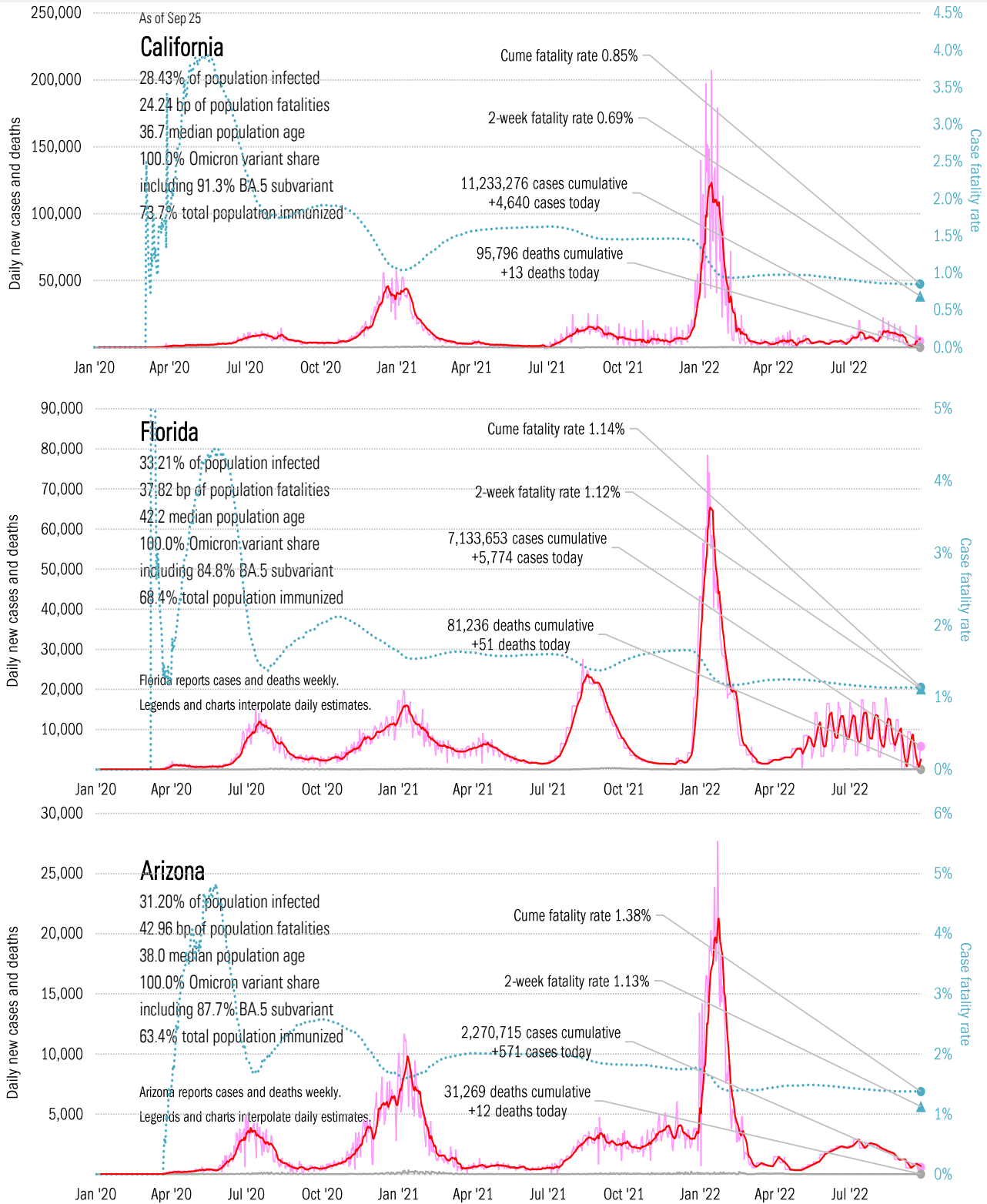
Cases: 7-day average and daily Deaths: Daily



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

The sun-belt hot-spot states

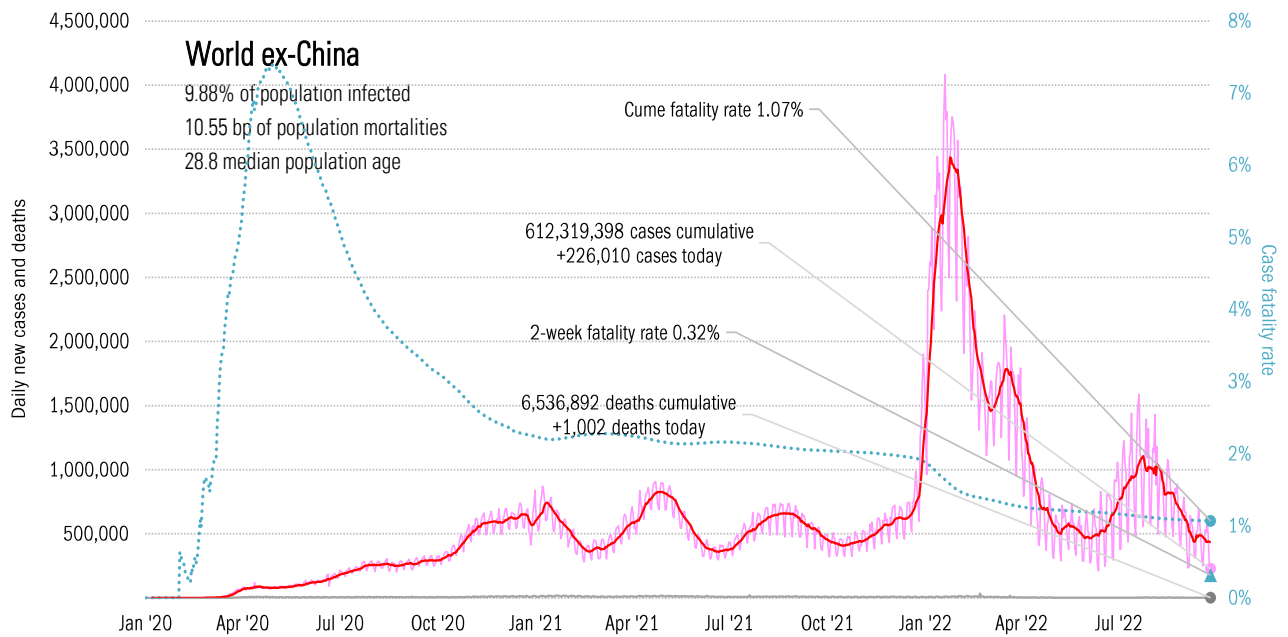
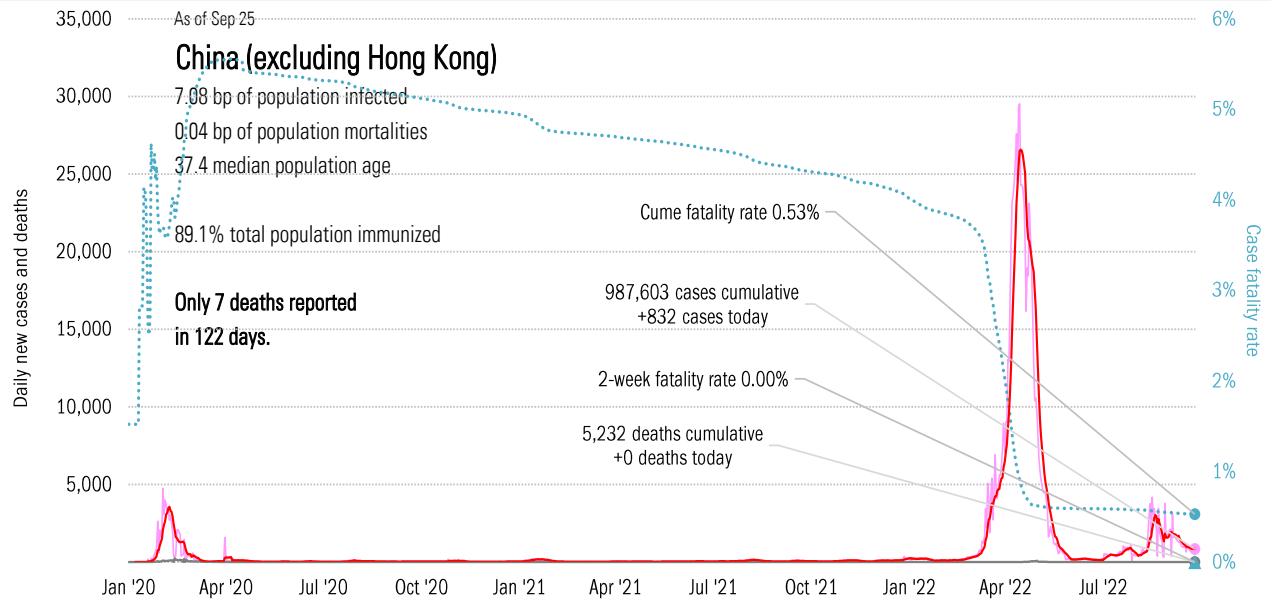
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

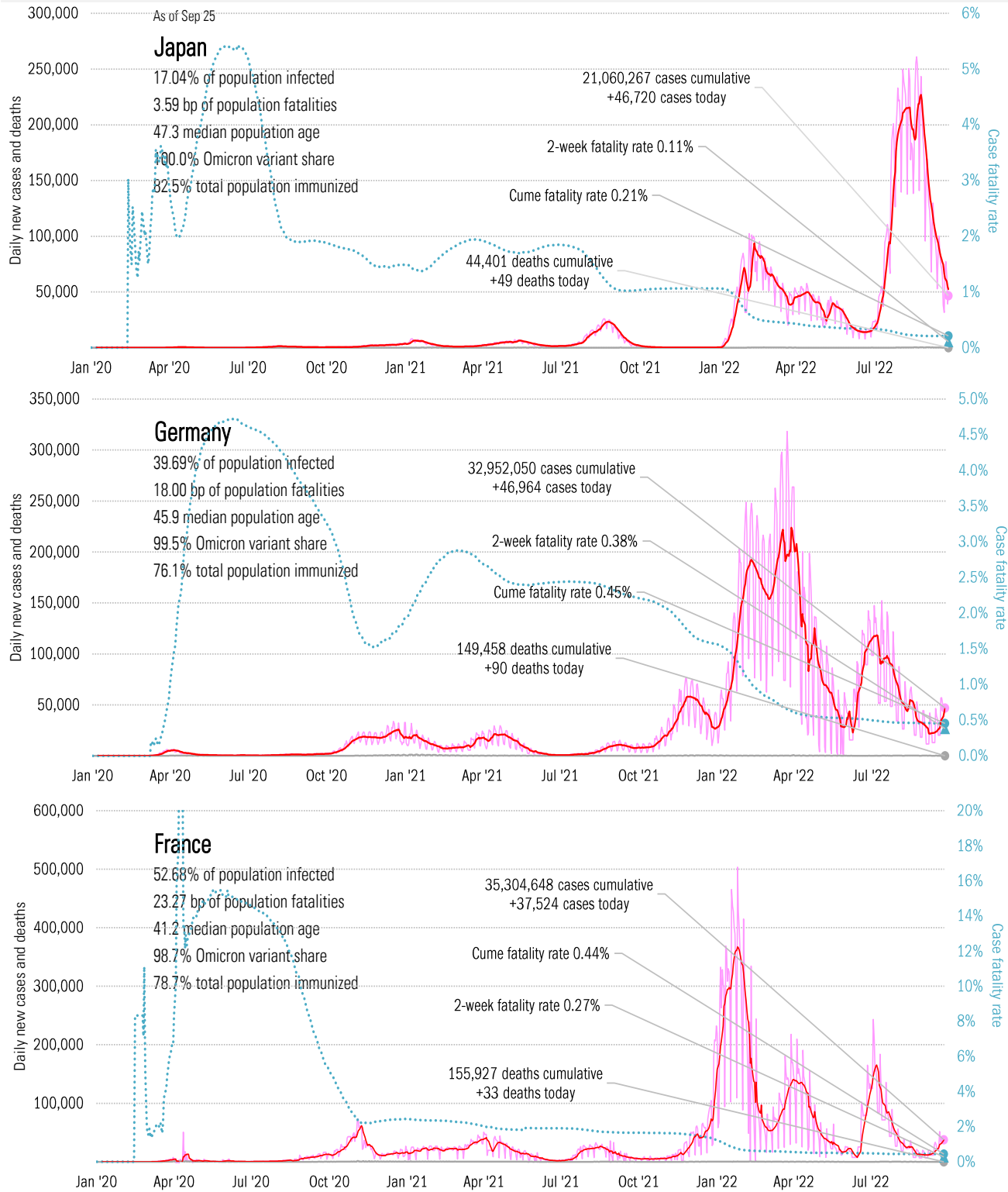
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

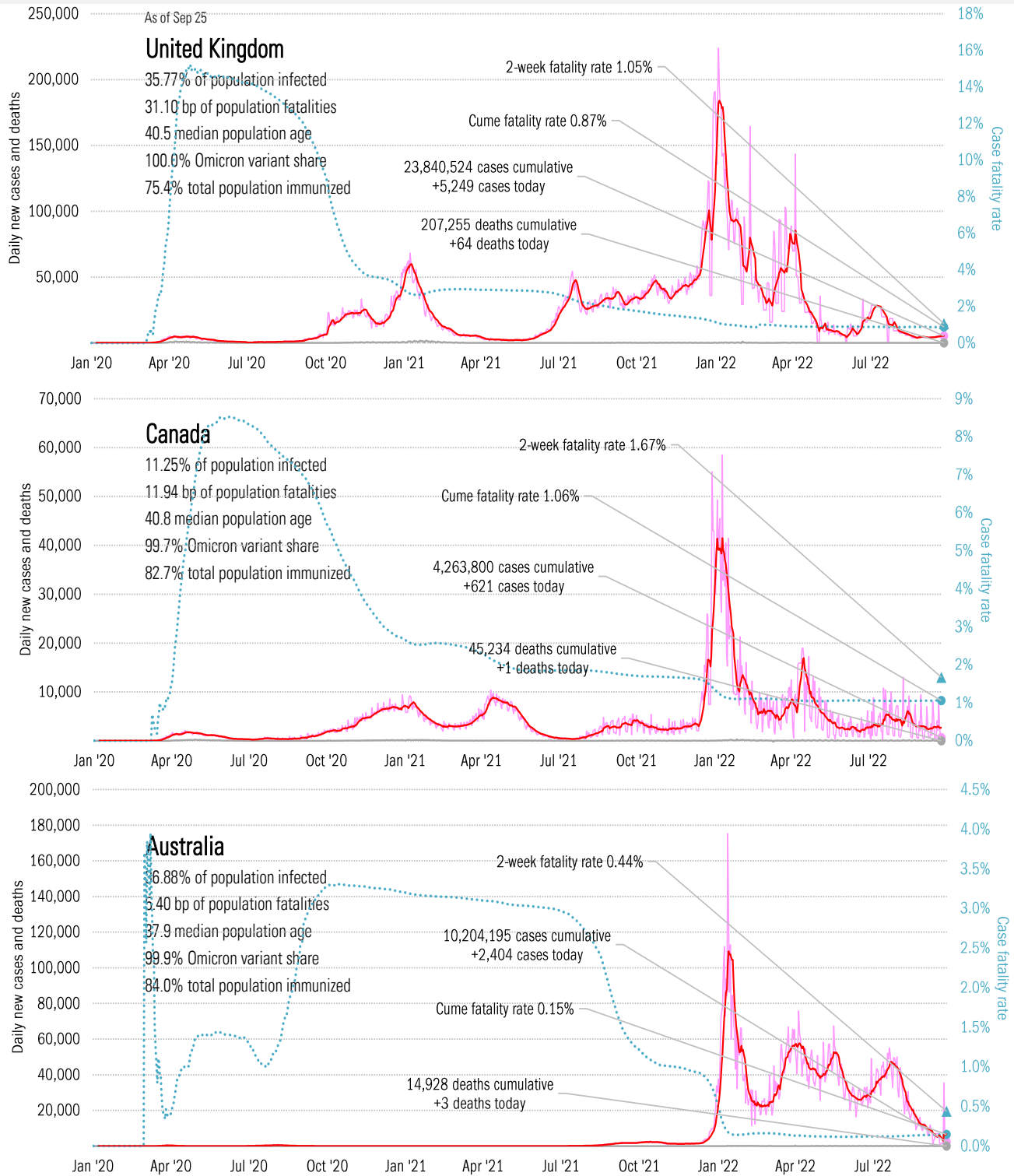
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

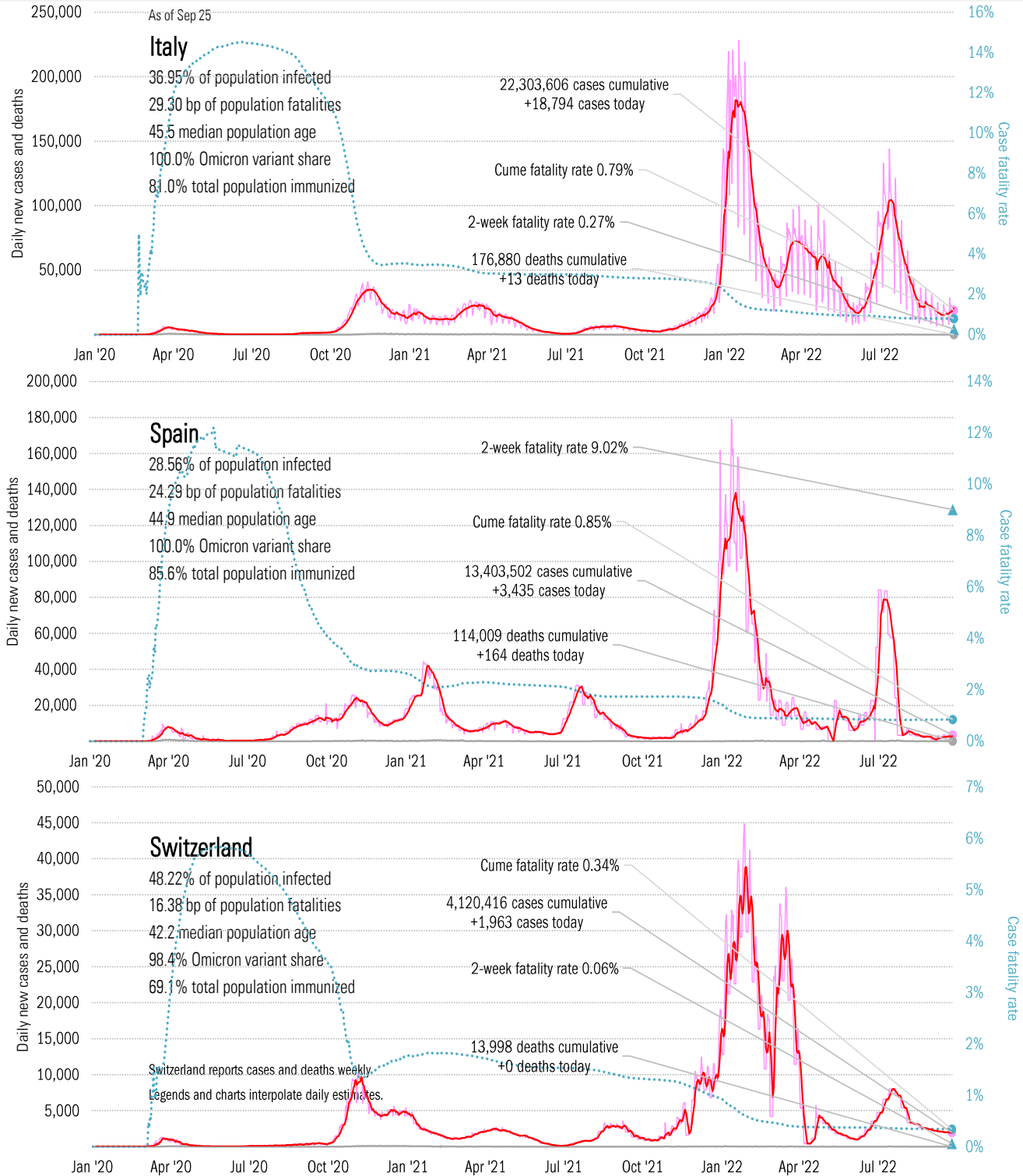
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

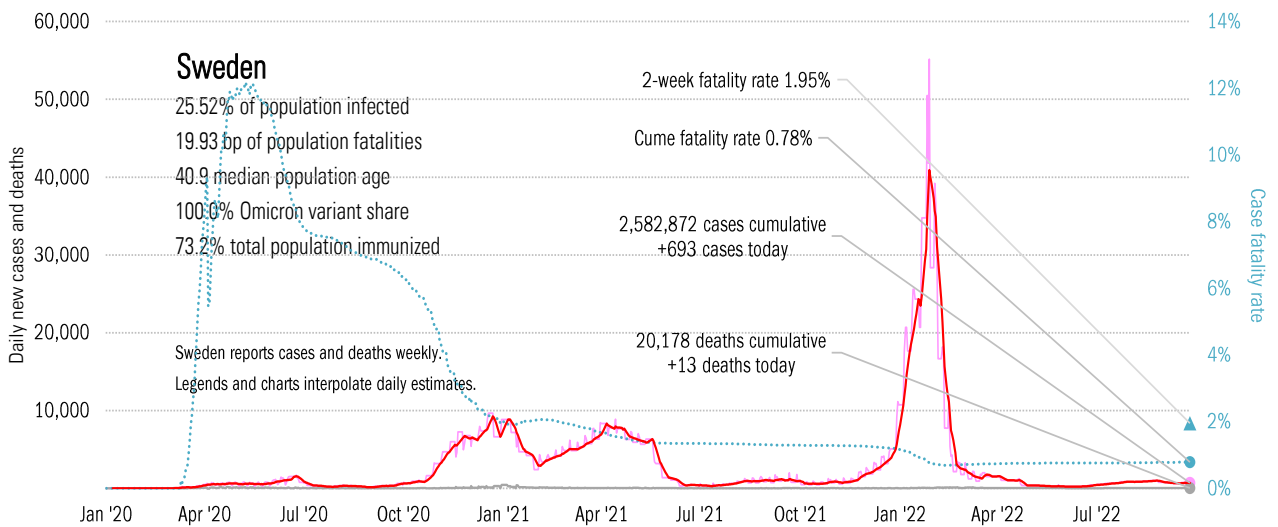
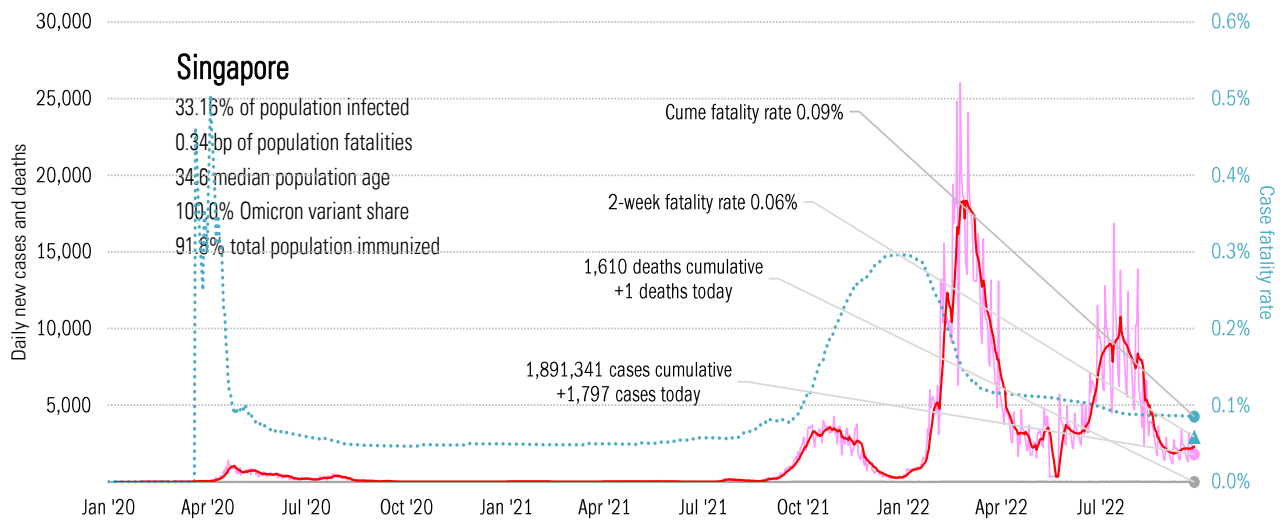
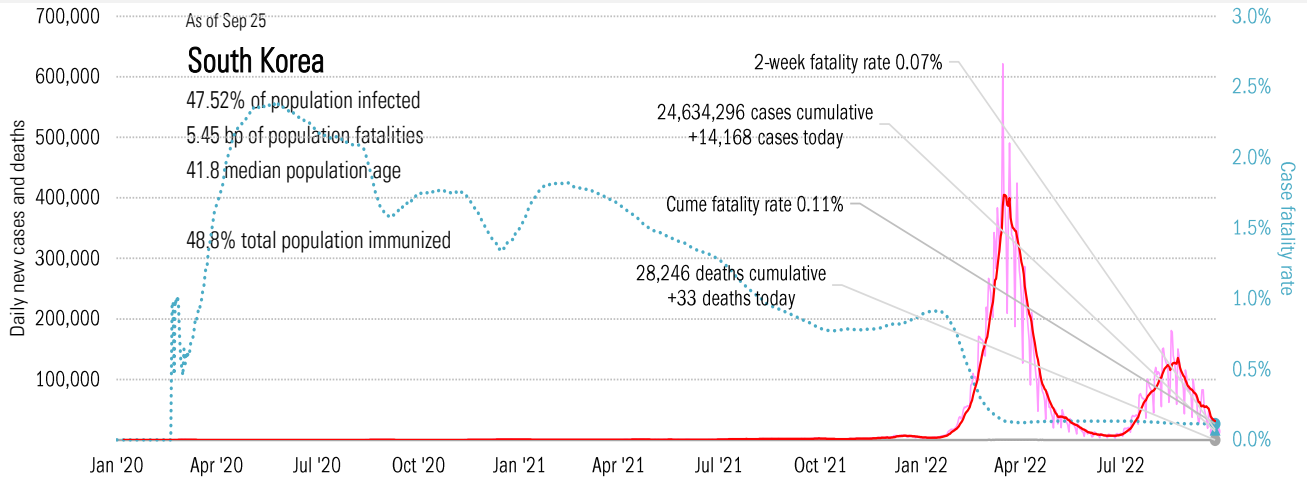
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

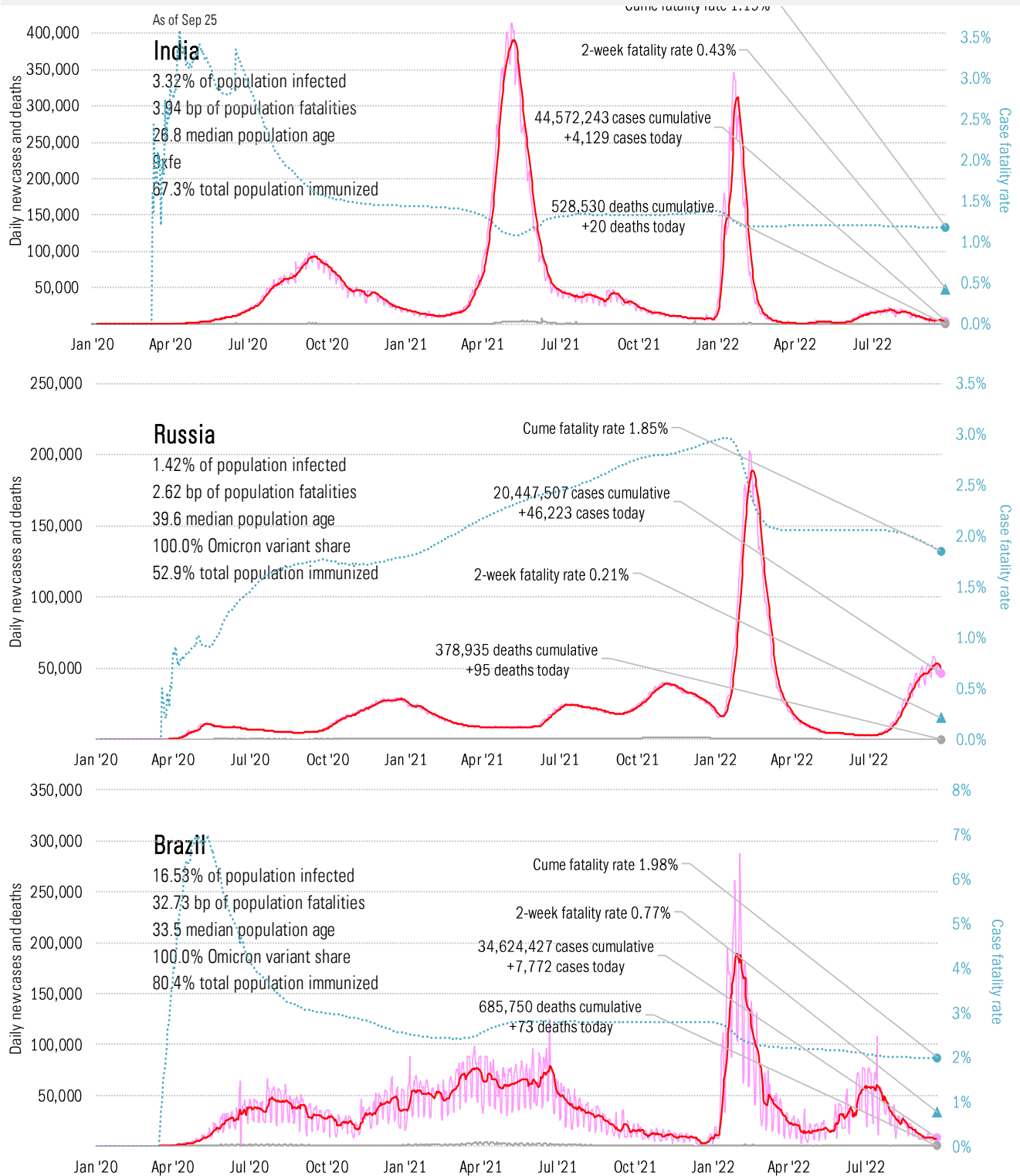
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

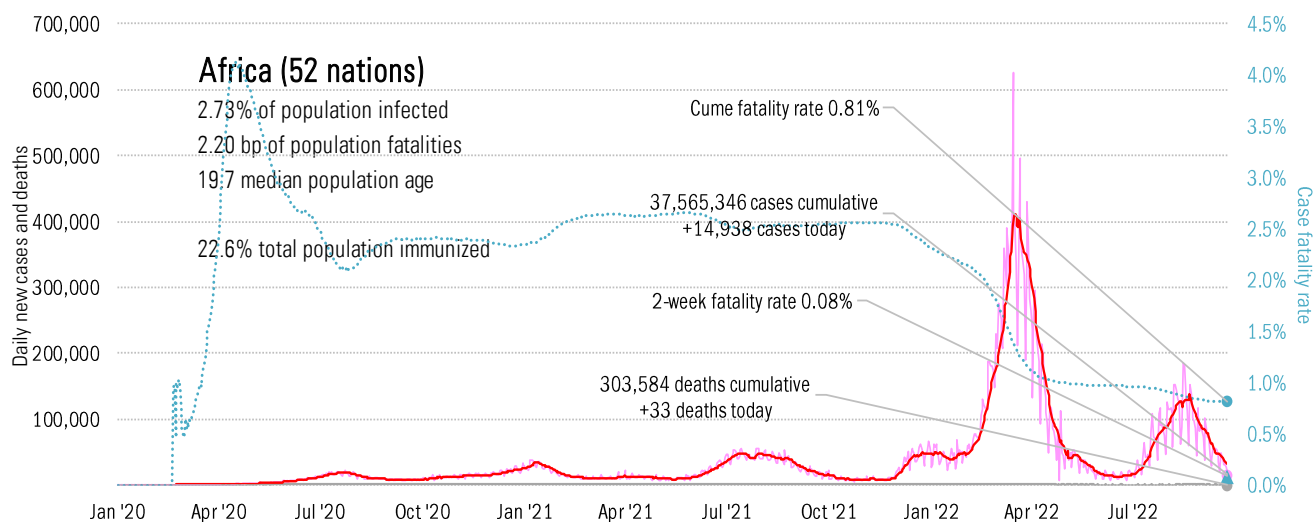
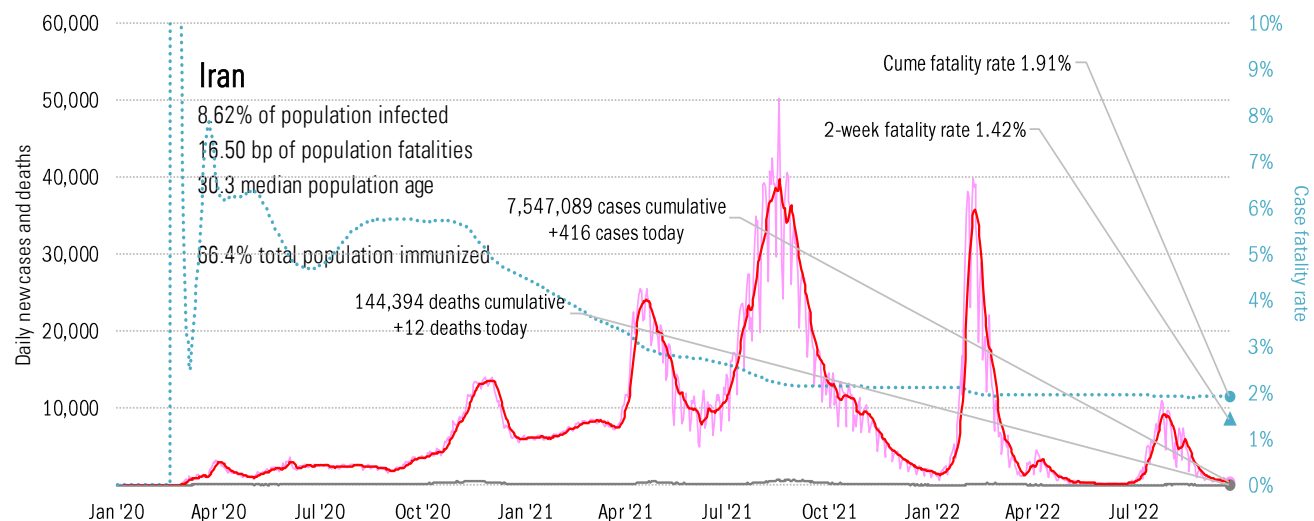
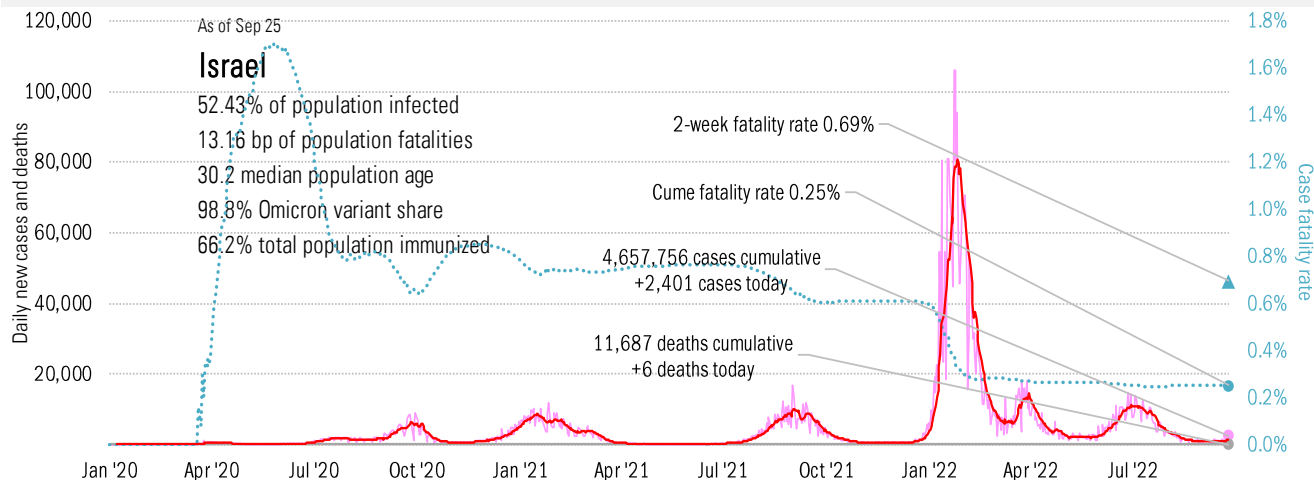
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

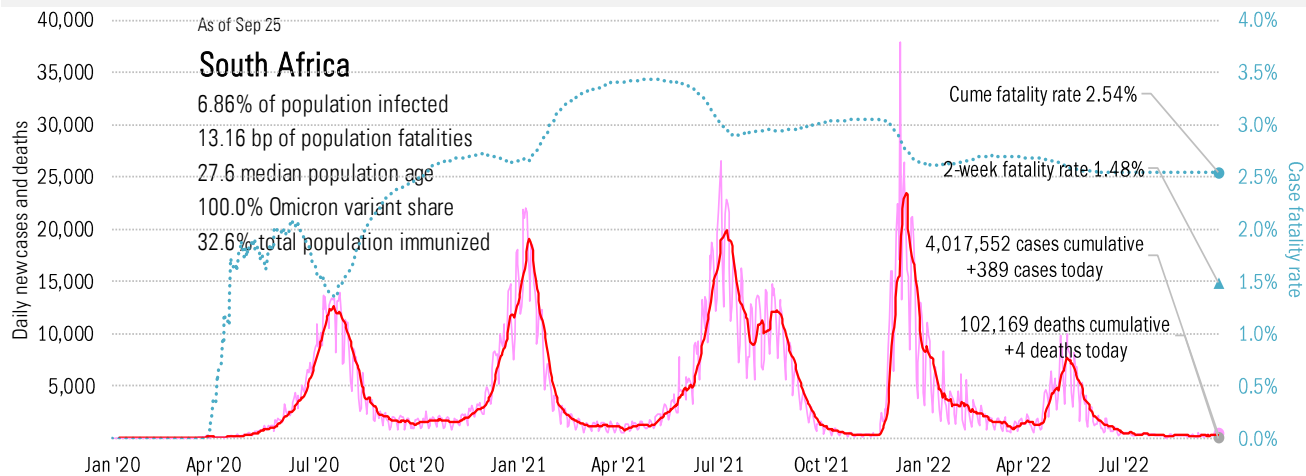
Cases: **7-day average** and **daily** Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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