

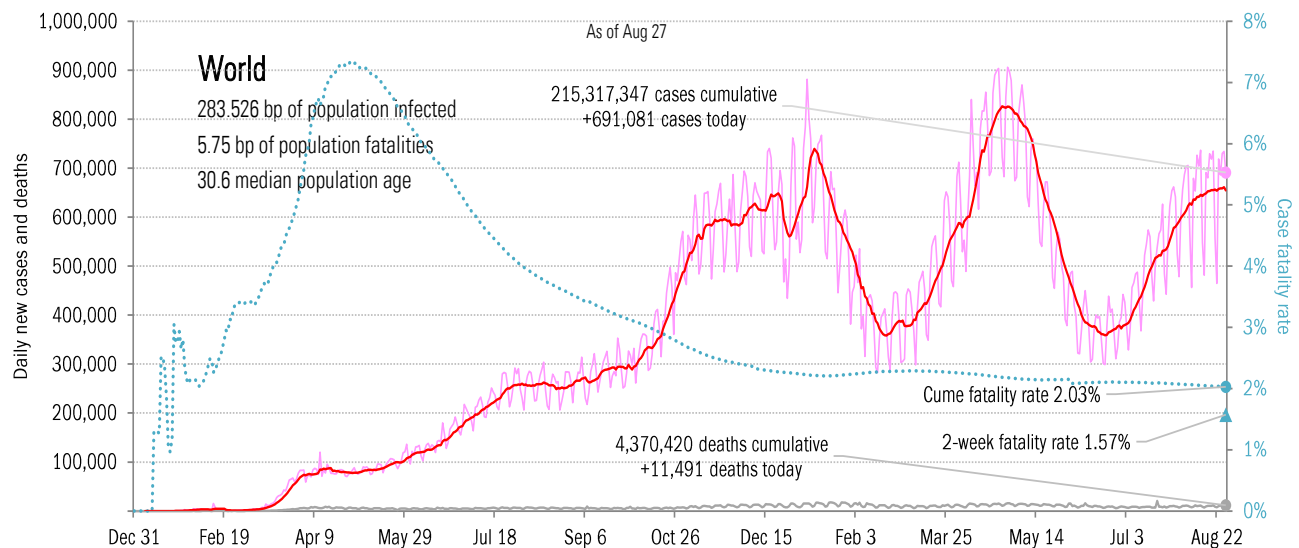
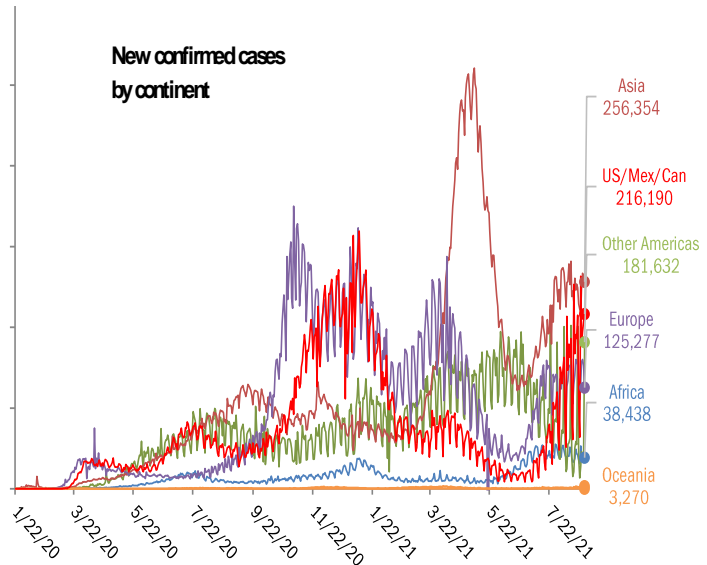
Data Insights: Covid-2019 Monitor

Saturday, August 28, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

| The worst ten countries | | | |
|-------------------------|----------|---------------|---------|
| New cases | | New Deaths | |
| United States | +192,854 | United States | +3,156 |
| India | +46,759 | Mexico | +863 |
| United Kingdom | +37,854 | Russia | +777 |
| Iran | +36,279 | Brazil | +761 |
| Brazil | +27,345 | Indonesia | +599 |
| Japan | +24,023 | Iran | +571 |
| Malaysia | +22,070 | India | +509 |
| Mexico | +19,556 | Vietnam | +386 |
| Russia | +18,982 | South Africa | +361 |
| Thailand | +18,702 | Malaysia | +339 |
| +444,424 | | +8,322 | |
| World | +691,081 | World | +11,491 |
| Top ten | 64% | Top ten | 72% |



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

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

Cases: 7-day average and daily Deaths: Daily

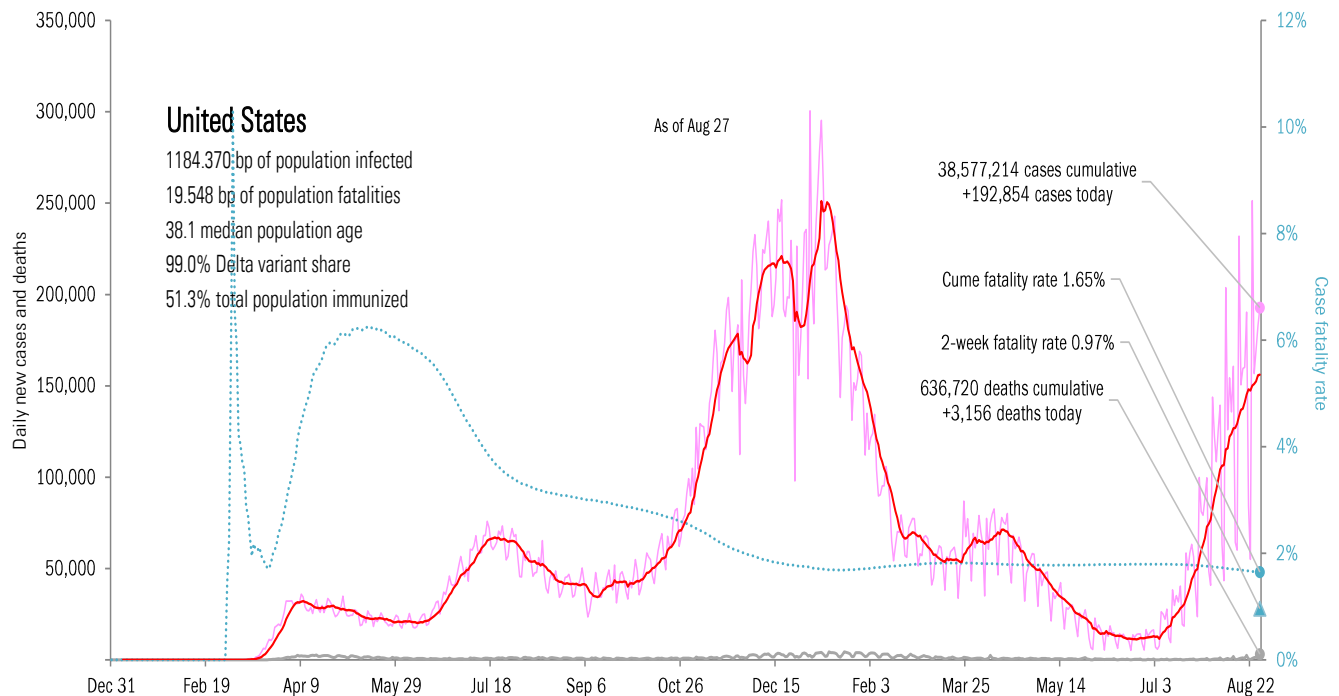
The ten worst US states

| New cases | | | New Deaths | | | New in hospital | | | Curre cases | | | Curre deaths | | | Curre in hospital | | | Hospital use | | ICU use | |
|------------|----------|--|------------|------|--|-----------------|------|--|-------------|------------|--|--------------|--------|--|-------------------|---------|--|--------------|-----|---------|-----|
| TX | +22,475 | | TX | +290 | | GA | +302 | | CA | 4,309,137 | | CA | 65,629 | | TX | 313,786 | | RI | 90% | MS | 59% |
| FL | +21,680 | | FL | +176 | | KY | +125 | | TX | 3,557,337 | | TX | 56,345 | | CA | 275,030 | | GA | 89% | GA | 55% |
| CA | +15,774 | | CA | +121 | | PA | +74 | | FL | 3,093,169 | | NY | 54,152 | | FL | 270,425 | | MA | 86% | FL | 54% |
| GA | +11,084 | | MI | +74 | | SC | +68 | | NY | 2,260,536 | | FL | 42,696 | | NY | 145,683 | | FL | 85% | AL | 53% |
| NC | +8,105 | | CH | +70 | | IN | +59 | | IL | 1,508,005 | | PA | 28,180 | | GA | 132,884 | | MD | 84% | LA | 50% |
| TN | +7,635 | | MS | +65 | | IL | +26 | | GA | 1,369,926 | | NJ | 26,826 | | PA | 97,333 | | PA | 84% | TX | 49% |
| SC | +6,830 | | AZ | +63 | | VA | +26 | | PA | 1,288,041 | | IL | 26,322 | | CH | 96,133 | | MO | 84% | AR | 49% |
| NY | +6,381 | | GA | +61 | | MI | +22 | | CH | 1,202,728 | | GA | 22,553 | | KY | 92,050 | | SC | 83% | ID | 45% |
| AL | +5,033 | | LA | +61 | | CA | +20 | | NC | 1,189,296 | | MI | 21,520 | | IL | 91,521 | | NV | 82% | OK | 45% |
| IL | +4,942 | | AL | +50 | | NJ | +20 | | NJ | 1,084,546 | | CH | 20,799 | | MI | 77,387 | | MI | 81% | H | 40% |
| +109,939 | | | +1,031 | | | +742 | | | 20,862,721 | | | 365,022 | | | 1,592,232 | | | | | | |
| All states | +192,854 | | +1,605 | | | +456 | | | All states | 38,577,214 | | 636,720 | | | 2,816,854 | | | All states | 70% | 67% | |
| Top ten | 57% | | 64% | | | 163% | | | Top ten | 54% | | 57% | | | 57% | | | Median | 77% | 27% | |

Some states not reporting

Five most improved US states

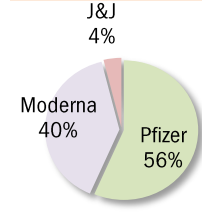
| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | | Most pop immunity growth | |
|-------------------|--------|------------------|-----|----------------------------|------|--------------------------|--------|
| AL | -6,109 | FL | -92 | FL | -137 | AL | +50 bp |
| TN | -3,676 | AL | -53 | TX | -59 | MS | +40 bp |
| AZ | -3,148 | IL | -45 | CO | -55 | FL | +30 bp |
| LA | -1,703 | GA | -31 | AL | -50 | NE | +30 bp |
| OK | -814 | TN | -26 | IA | -48 | LA | +30 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 | One dose | % Pop | Immune | % pop | New immune today | US | |
| | 377,120,868 | | | | +1.101 million | 51.3% | 60.5% |
| Total population | 208,401,025 | 62% | 177,070,572 | 53% | +0.485 million | UK | 62.1% |
| Age 12 to 17 | 12,257,849 | 52% | 9,209,944 | 39% | +0.083 million | France | 57.7% |
| Age 18 to 64 | 143,291,804 | 70% | 120,898,863 | 59% | +0.341 million | Spain | 69.4% |
| Age 65 and over | 51,839,697 | 95% | 46,134,493 | 84% | +0.060 million | Germany | 59.6% |
| | | | | | | Italy | 59.8% |
| | | | | | | Australia | 26.2% |
| | | | | | | Israel | 62.2% |
| | | | | | | Canada | 66.1% |
| | | | | | | Japan | 43.9% |
| | | | | | | Africa | 2.6% |
| | | | | | | India | 10.0% |
| | | | | | | Brazil | 27.7% |
| | | | | | | China | 61.6% |



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



Every American >18 immune in **101 days** by Dec 5, 2021
 64.7% of population >18 immunized
 13.1% previously tested positive
77.8% vs 60% adult herd immunity

As of Aug 27

Global data differs from sources, timing

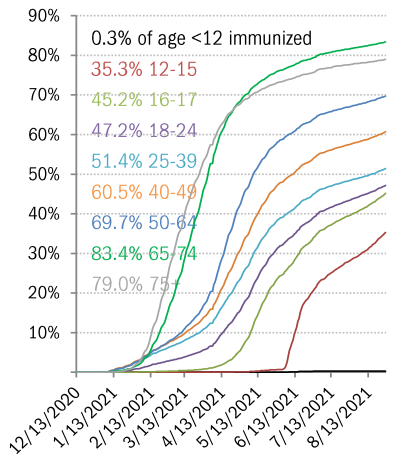
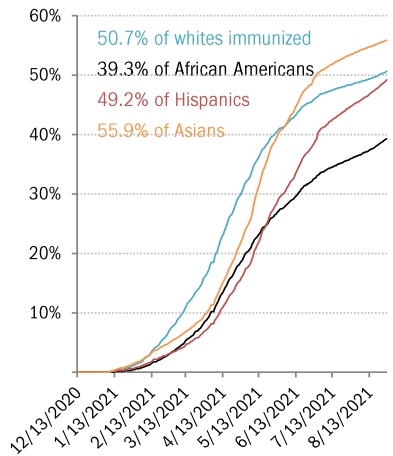
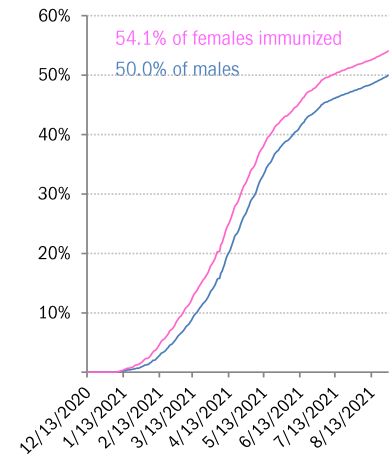
| |
|-------|
| AK |
| 53.8% |
| 47.0% |

| |
|-------|
| WI |
| 58.2% |
| 53.6% |

| |
|-------|
| ME |
| 71.1% |
| 65.5% |

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| WA | ID | MT | ND | MN | IL | MI | NY | VT | NH | |
| 67.3% | 43.8% | 51.9% | 47.9% | 61.5% | 65.5% | 55.0% | 66.9% | 75.9% | 66.8% | |
| 59.8% | 38.9% | 45.8% | 41.4% | 55.5% | 50.8% | 50.3% | 59.6% | 67.7% | 59.5% | |
| OR | NV | WY | SD | IA | IN | OH | PA | NJ | MA | |
| 63.5% | 57.5% | 44.8% | 55.8% | 56.0% | 49.8% | 52.2% | 68.9% | 69.5% | 75.0% | |
| 57.7% | 47.3% | 38.3% | 48.8% | 51.4% | 46.0% | 48.1% | 54.7% | 61.0% | 65.6% | |
| CA | UT | CO | NE | MO | KY | WV | VA | MD | CT | RI |
| 68.4% | 56.0% | 63.0% | 57.1% | 52.4% | 56.4% | 46.9% | 64.8% | 67.8% | 73.1% | 71.0% |
| 55.4% | 47.3% | 56.6% | 51.6% | 44.7% | 48.0% | 39.6% | 56.8% | 61.1% | 65.6% | 64.3% |
| | AZ | NM | KS | AR | TN | NC | SC | DC | DE | |
| | 56.3% | 69.3% | 56.9% | 52.7% | 48.9% | 55.1% | 51.0% | 67.0% | 63.7% | |
| | 47.5% | 59.6% | 47.8% | 40.8% | 41.3% | 45.9% | 42.8% | 57.0% | 54.9% | |
| | | | OK | LA | MS | AL | GA | | | |
| | | | 52.7% | 49.1% | 46.3% | 48.9% | 50.5% | | | |
| | | | 43.2% | 40.9% | 37.7% | 37.5% | 40.9% | | | |
| | | | TX | | | | | FL | | PR |
| | | | 56.6% | | | | | 63.2% | | 73.2% |
| | | | 46.9% | | | | | 52.2% | | 62.5% |

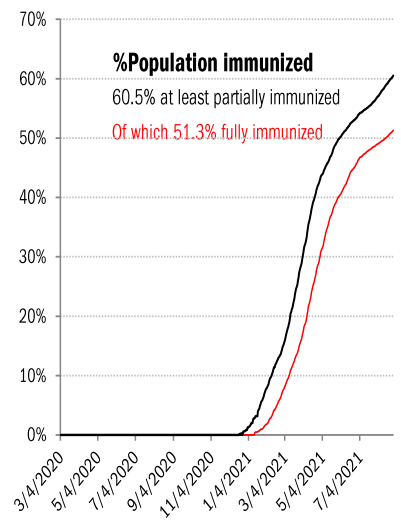
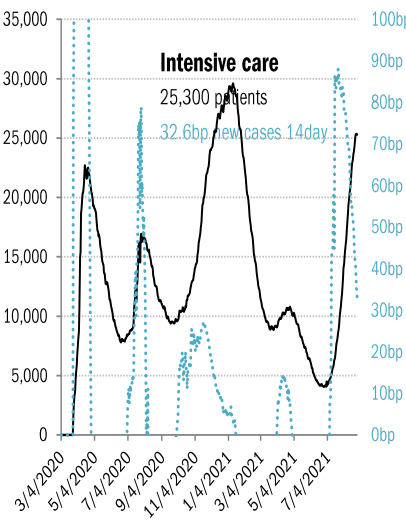
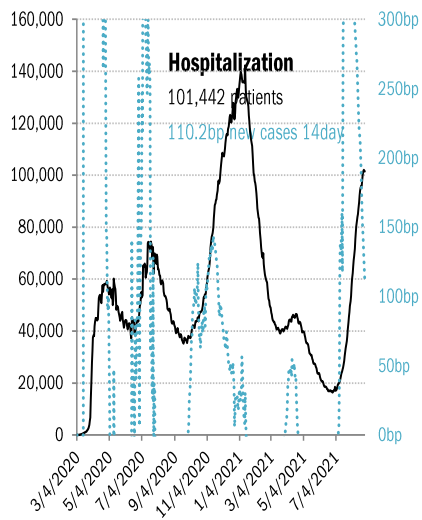
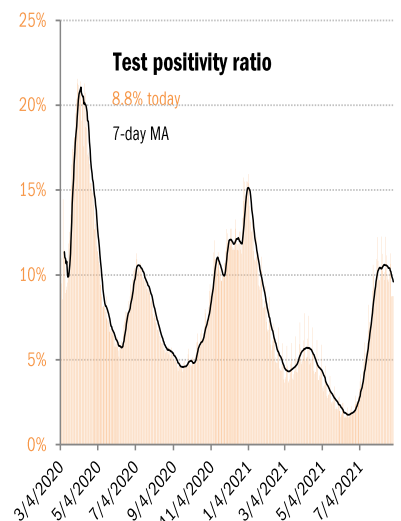
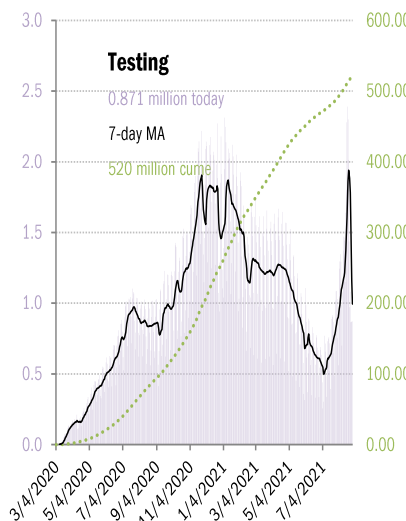
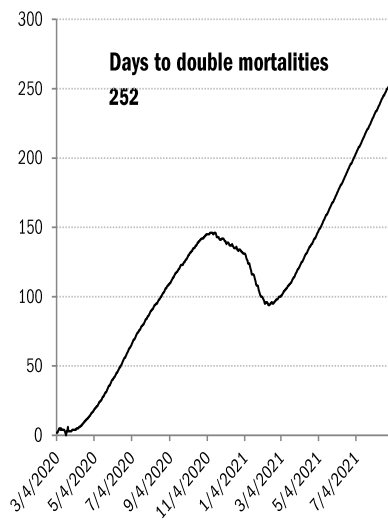
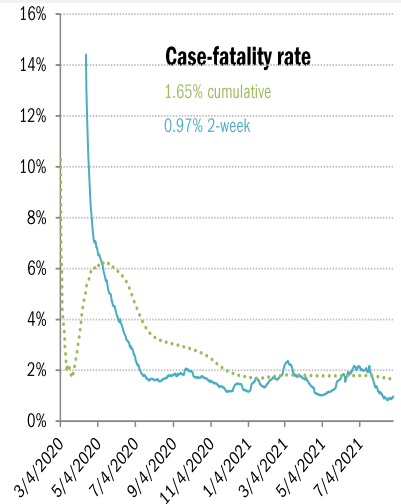
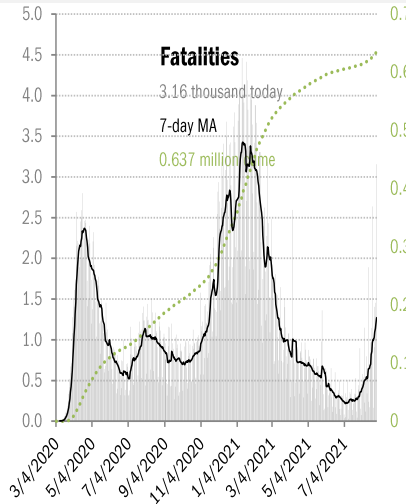
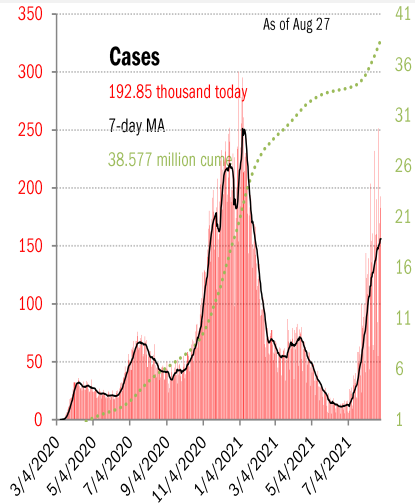
The demographics of US vaccination



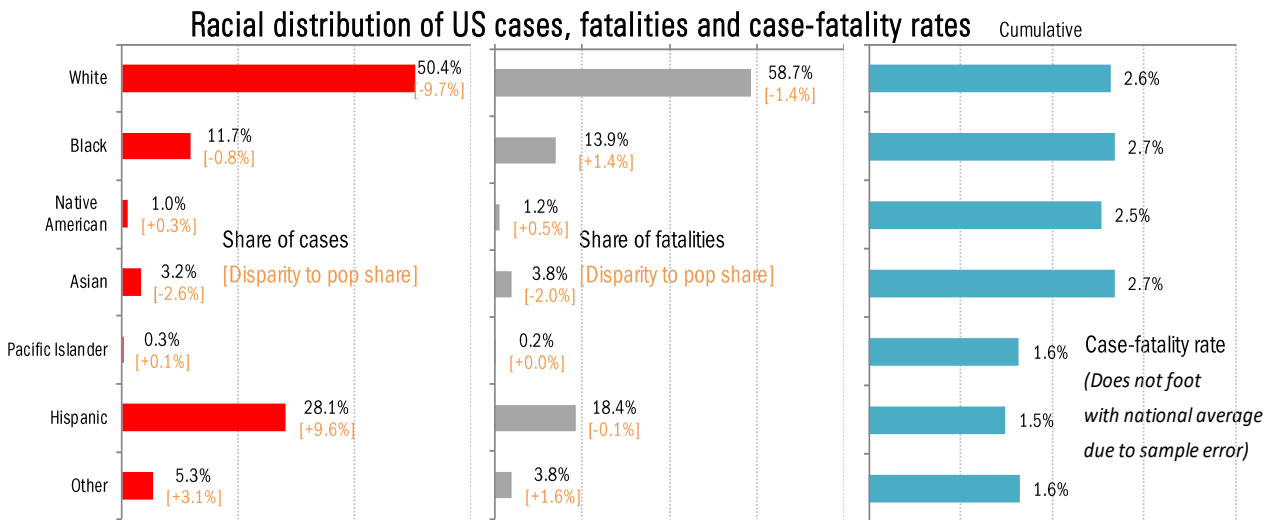
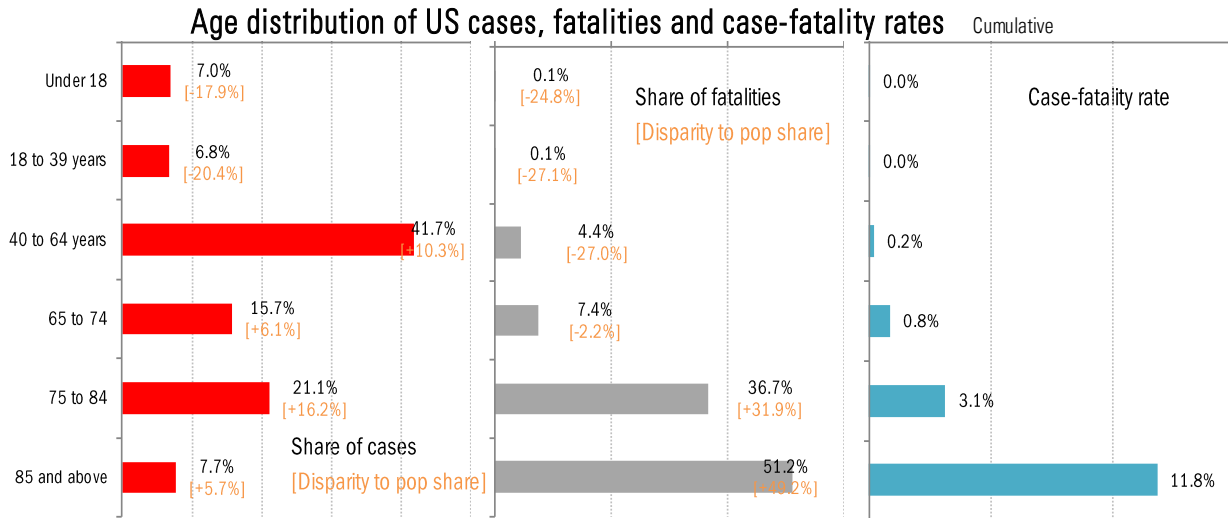
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

US deep-dive

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

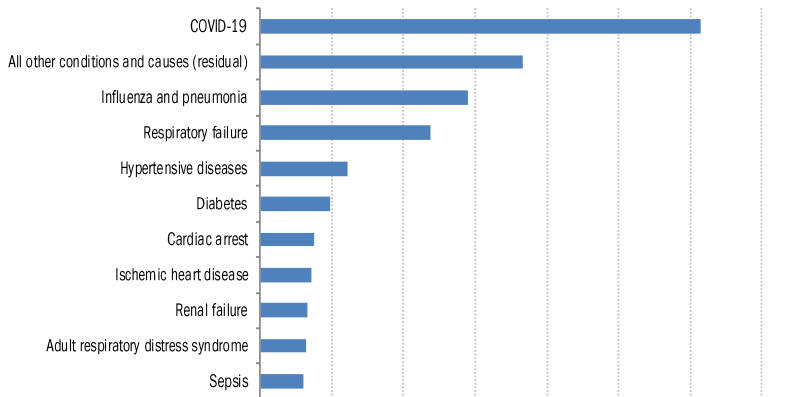


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Aug 15

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.

Recommended reading

[Unlike Clinical Trials, New Covid-19 Study Needed Only a Few Volunteers](#)

Jo Craven McGinty
Wall Street Journal
August 27, 2021

[Unclassified Summary of Assessment of Covid-19 Origins](#)

Intelligence Community
August 27, 2021

[New NY governor adds 12,000 deaths to publicized COVID tally](#)

Marina Villeneuve
Associated Press
August 25, 2021

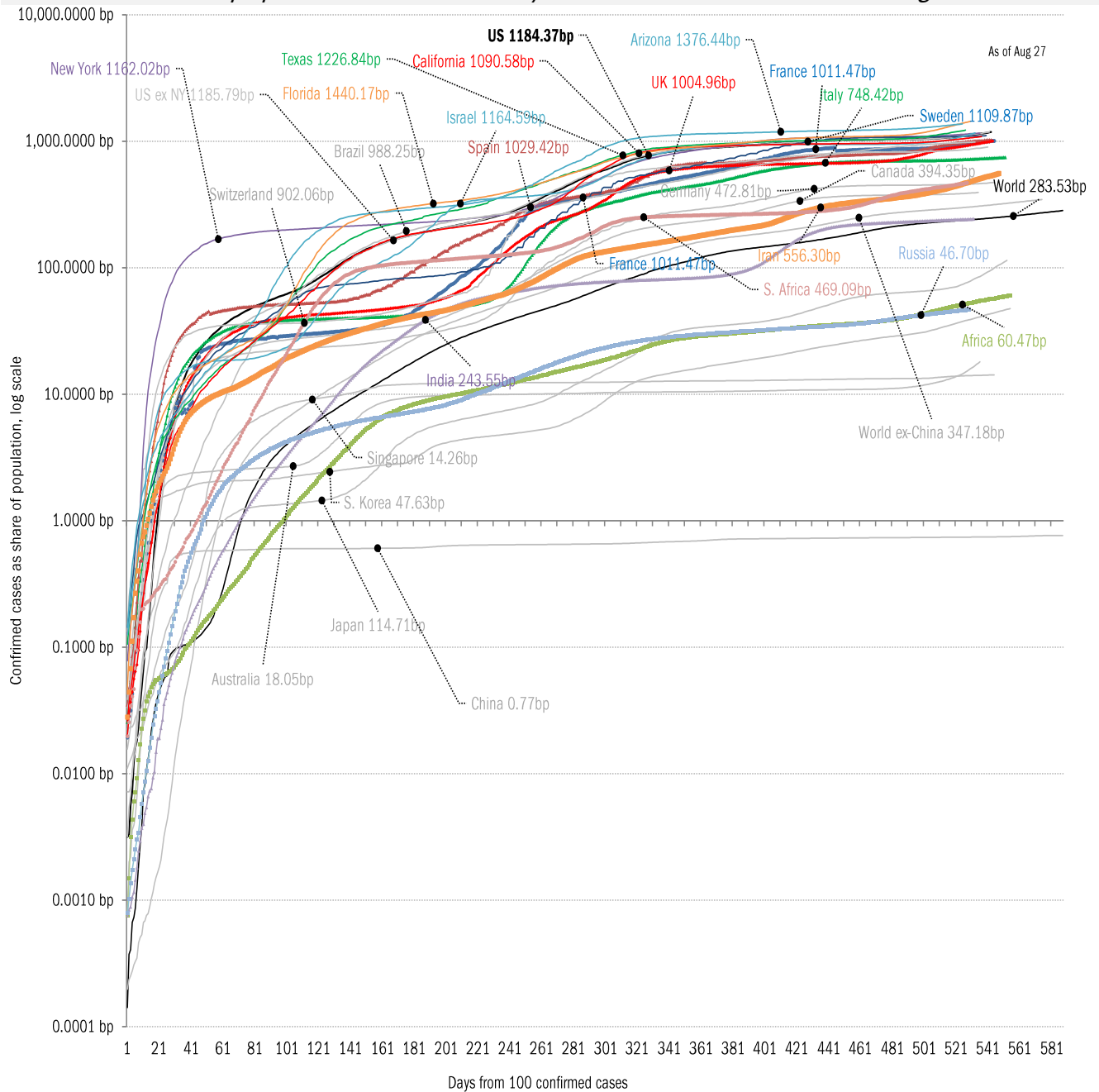
Meme of the day

When it's national dog day
but you live in Australia



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

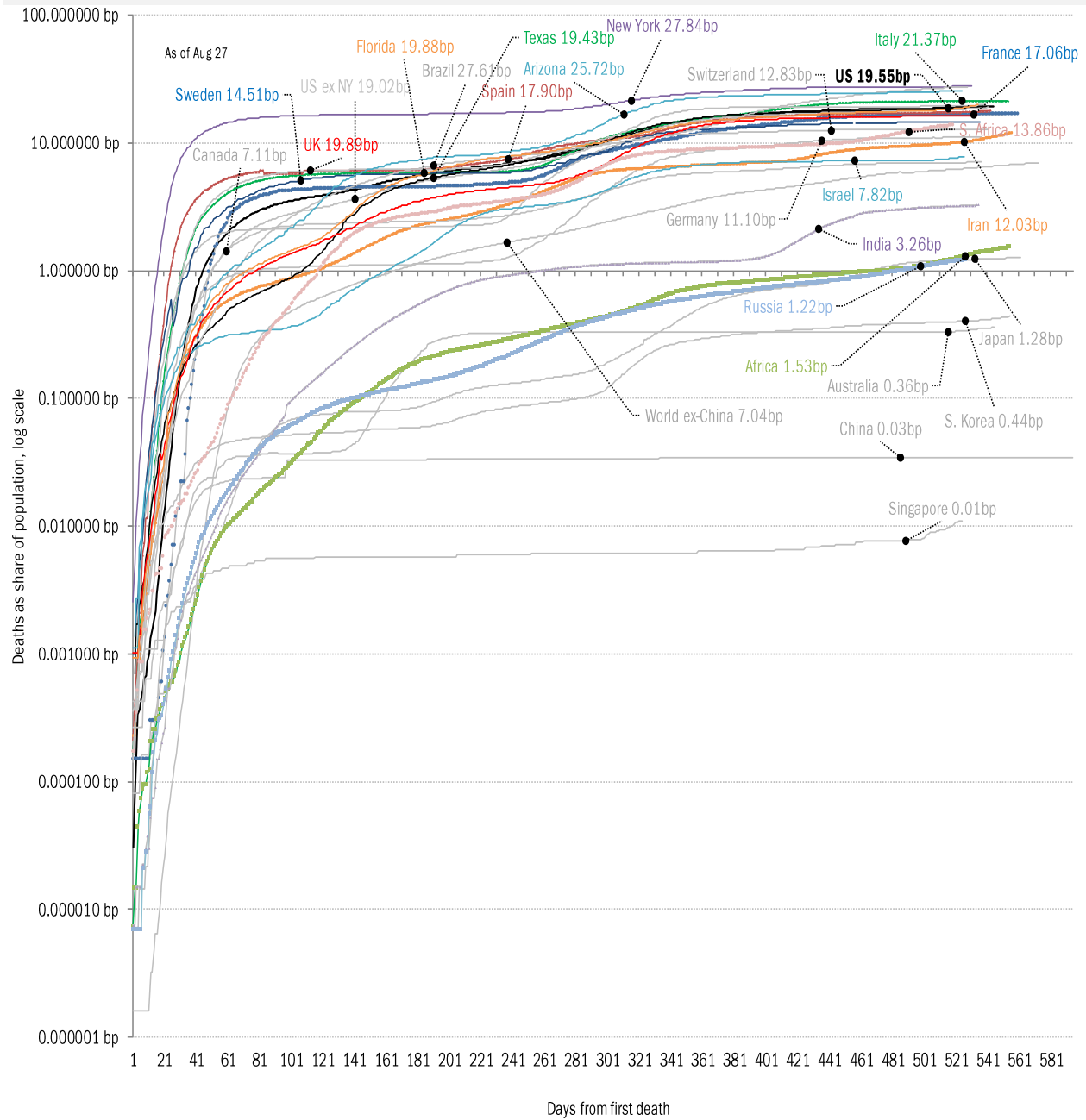
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

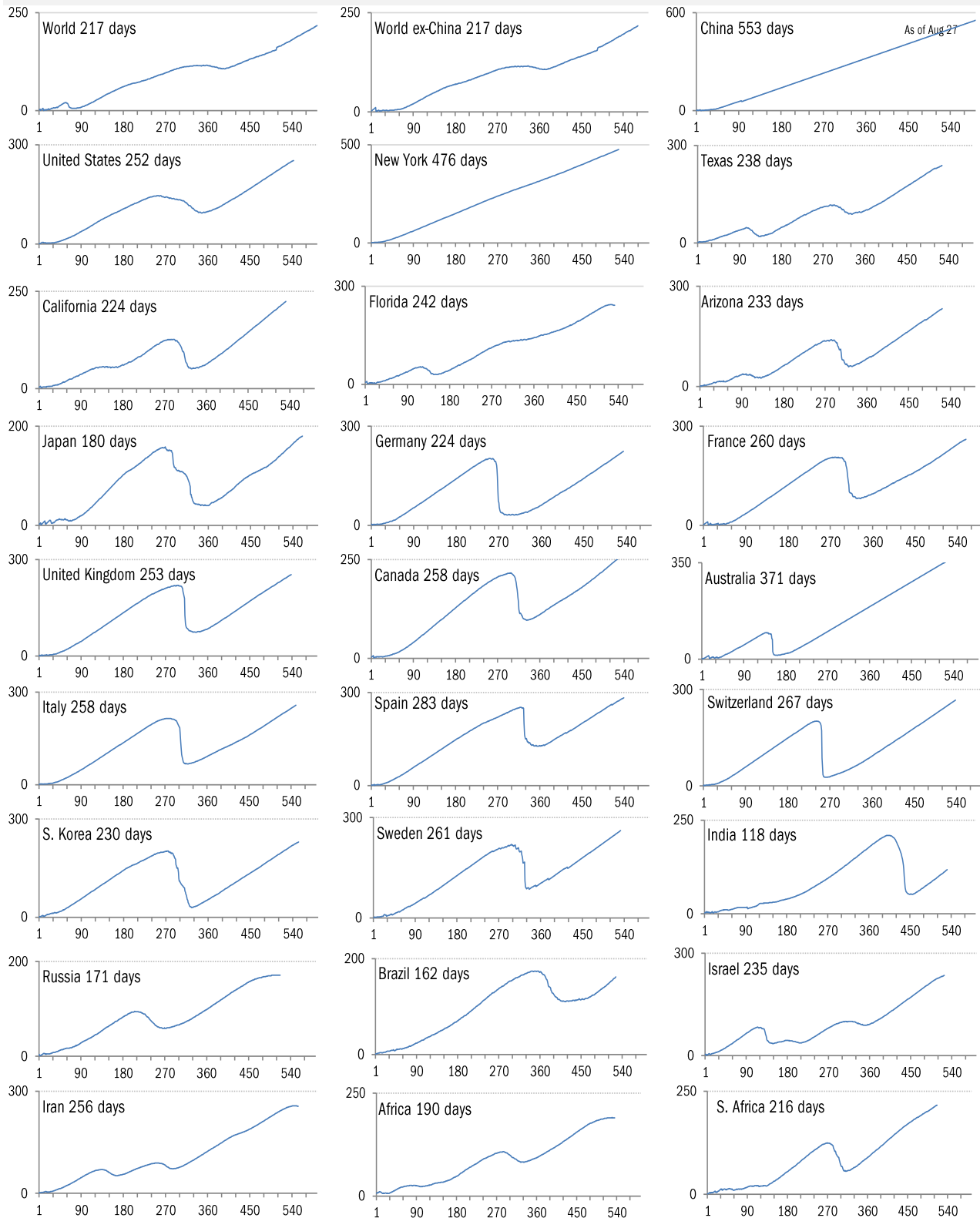


Source: [Johns Hopkins](#), TrendMacro calculations

"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

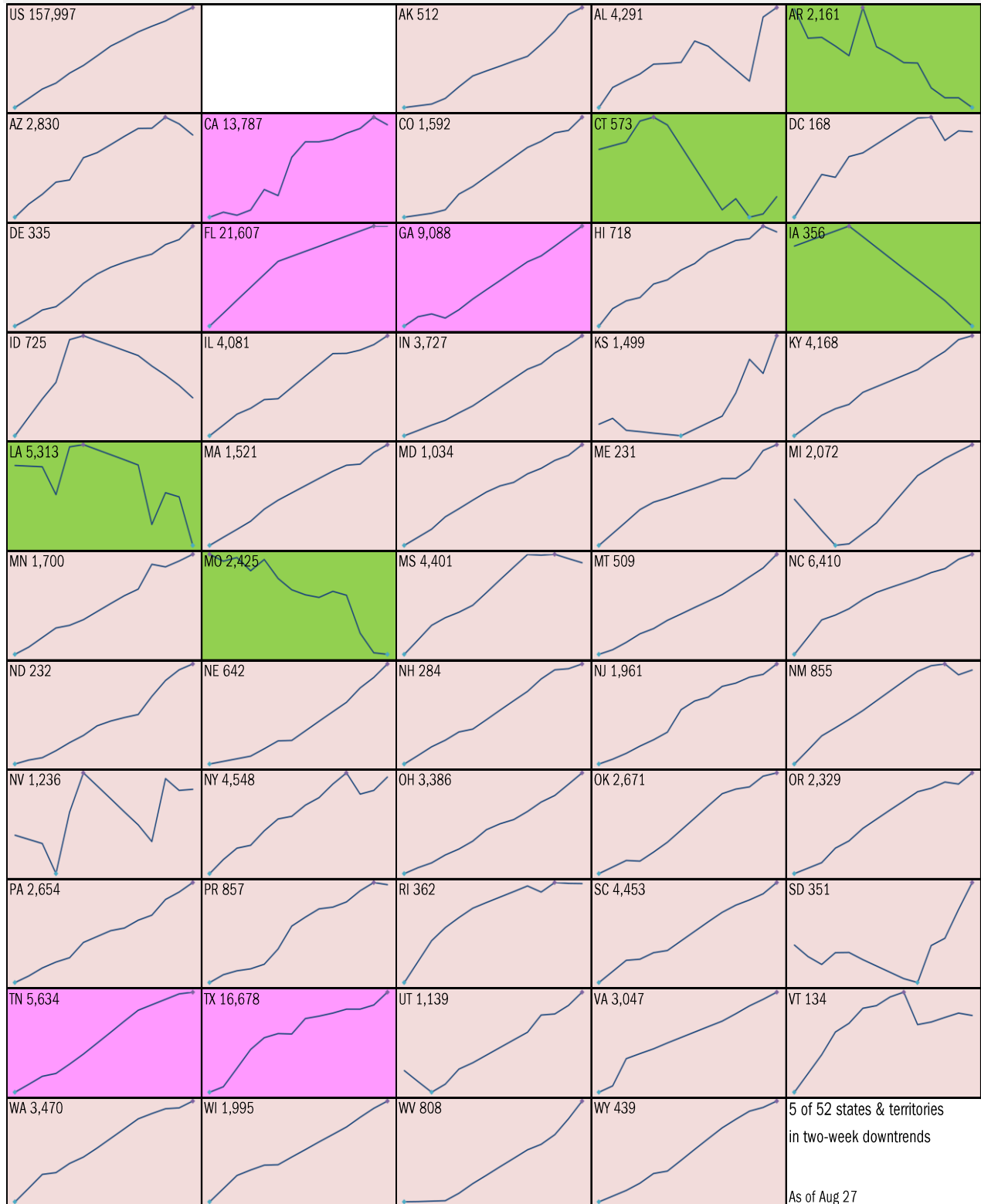


Source: [Johns Hopkins](#), TrendMacro calculations

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: [Johns Hopkins](#), 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

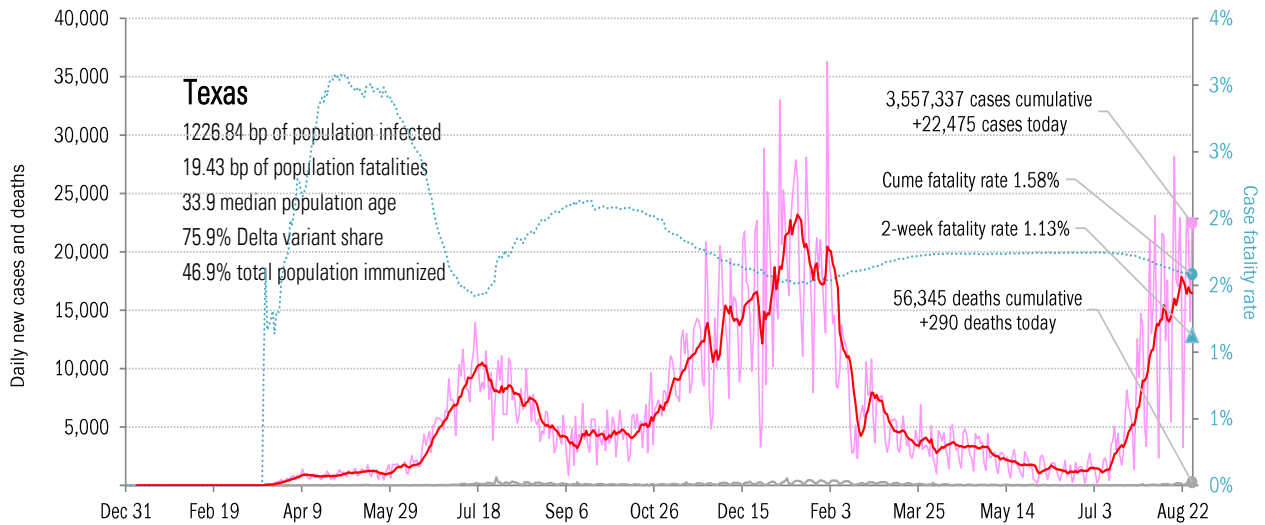
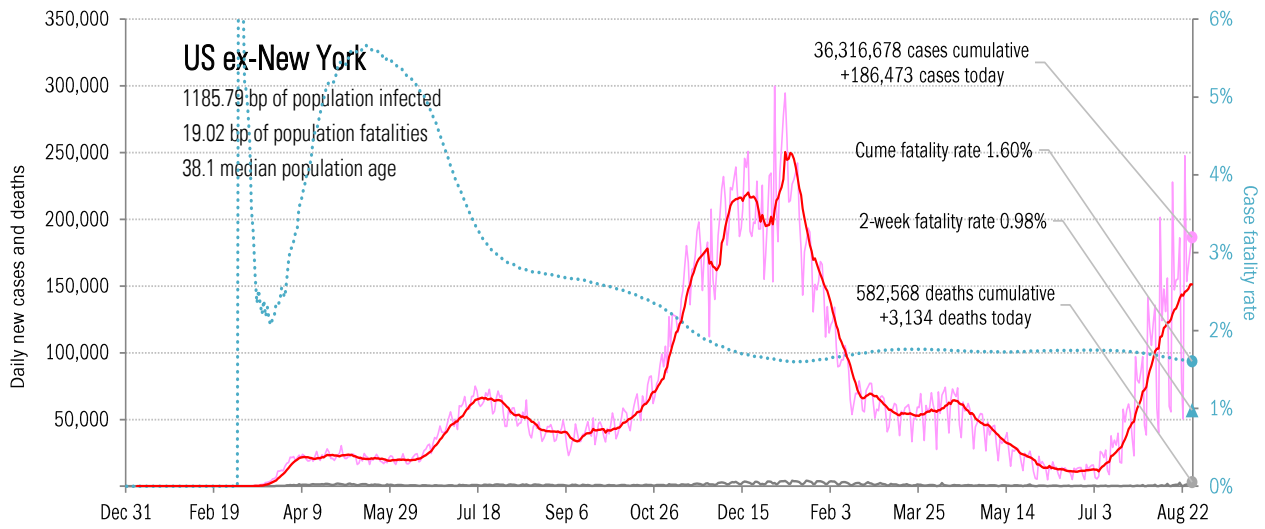
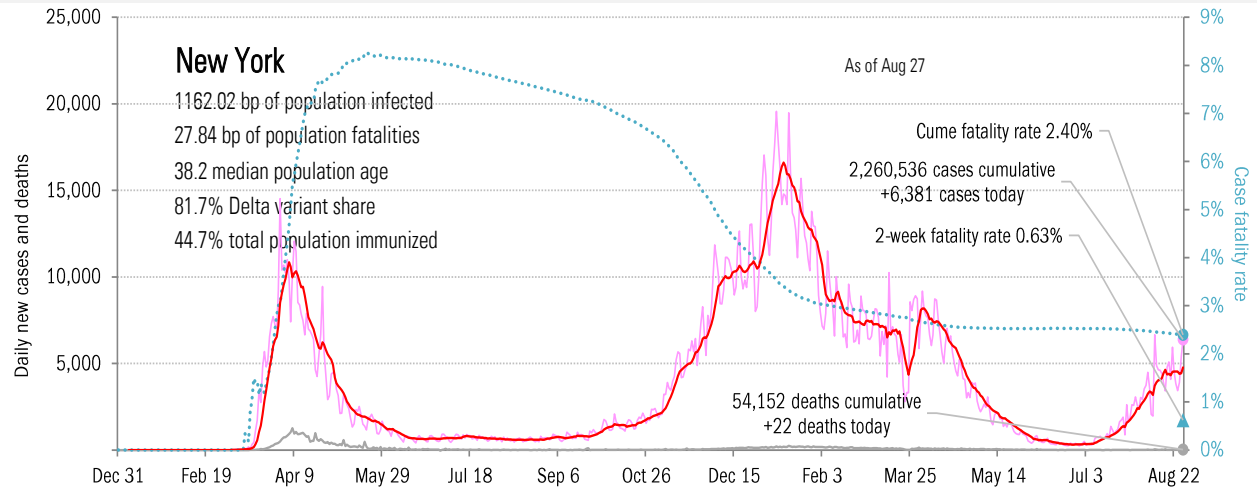
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

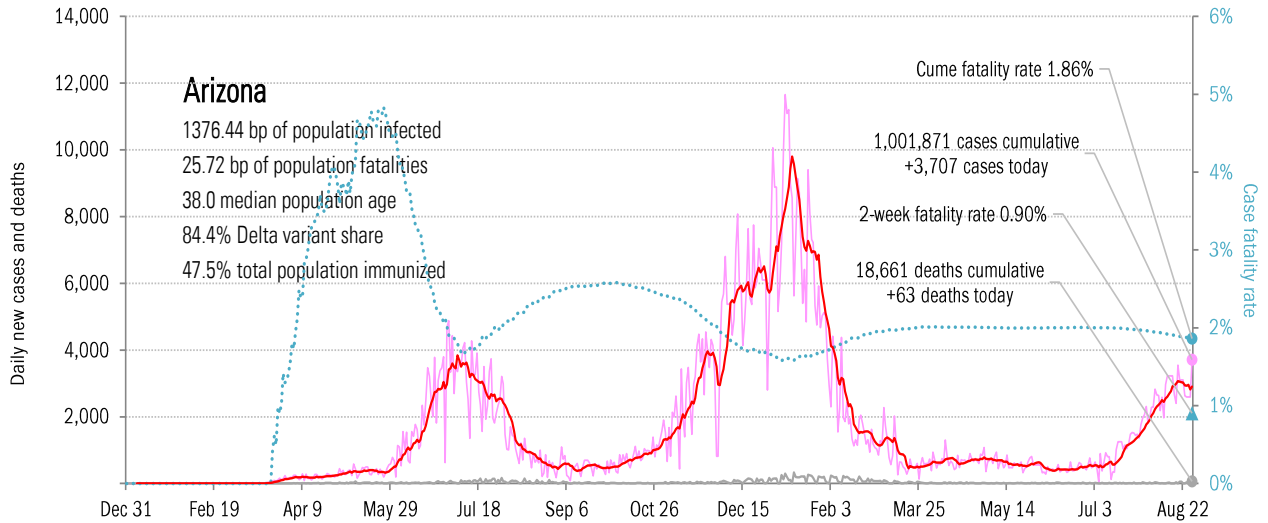
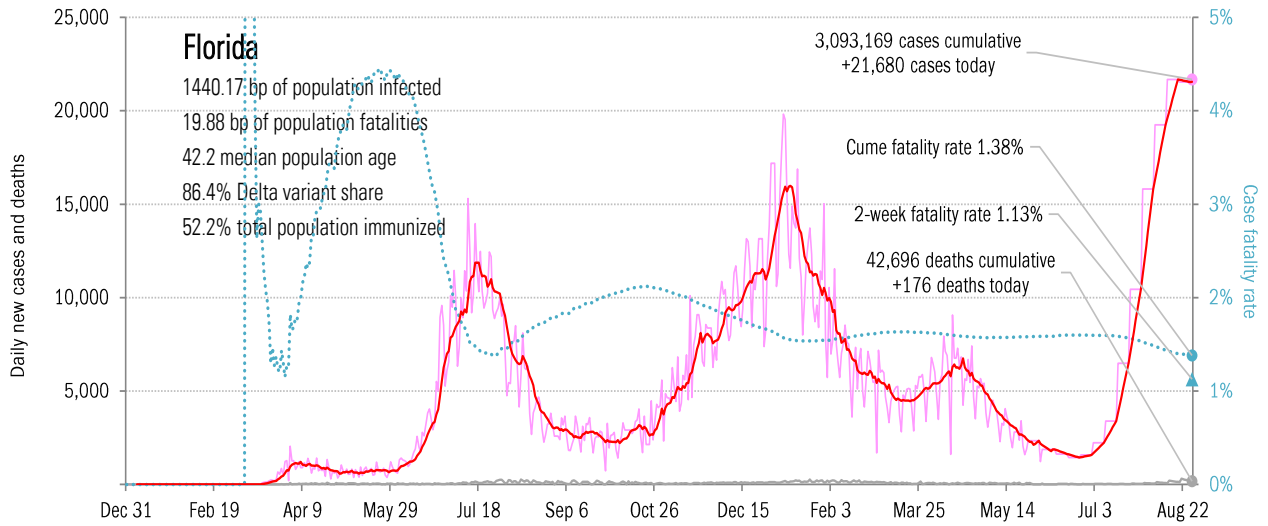
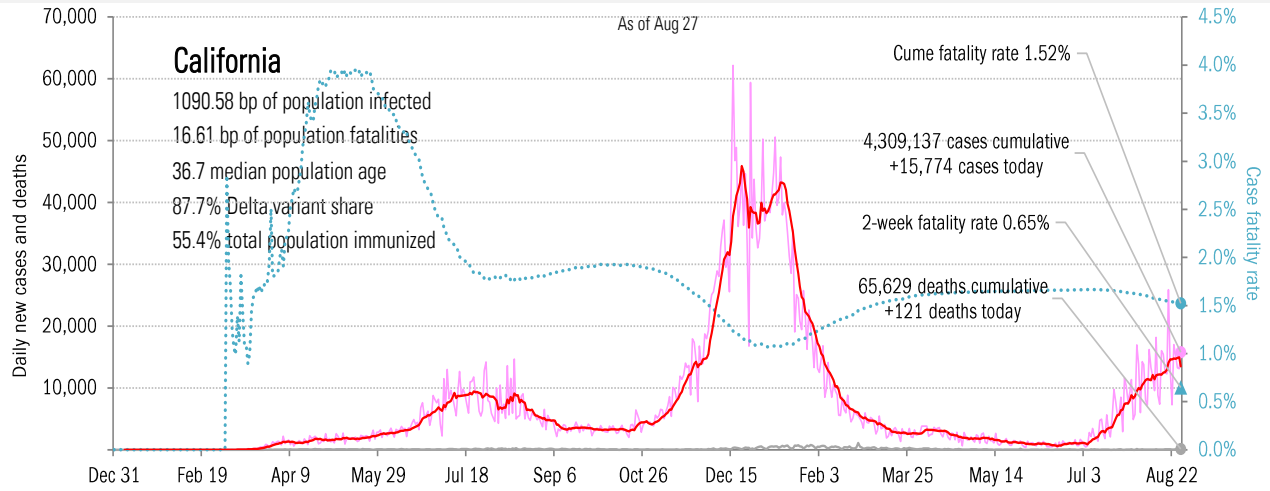
Cases: 7-day average and daily Deaths: Daily



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

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

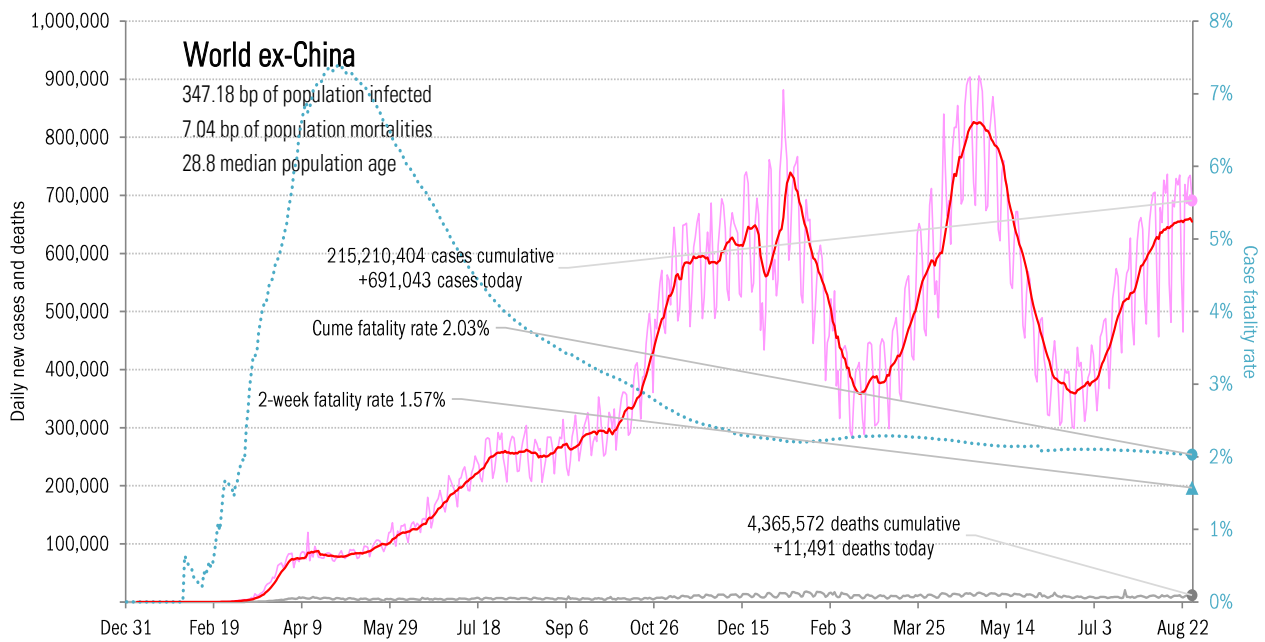
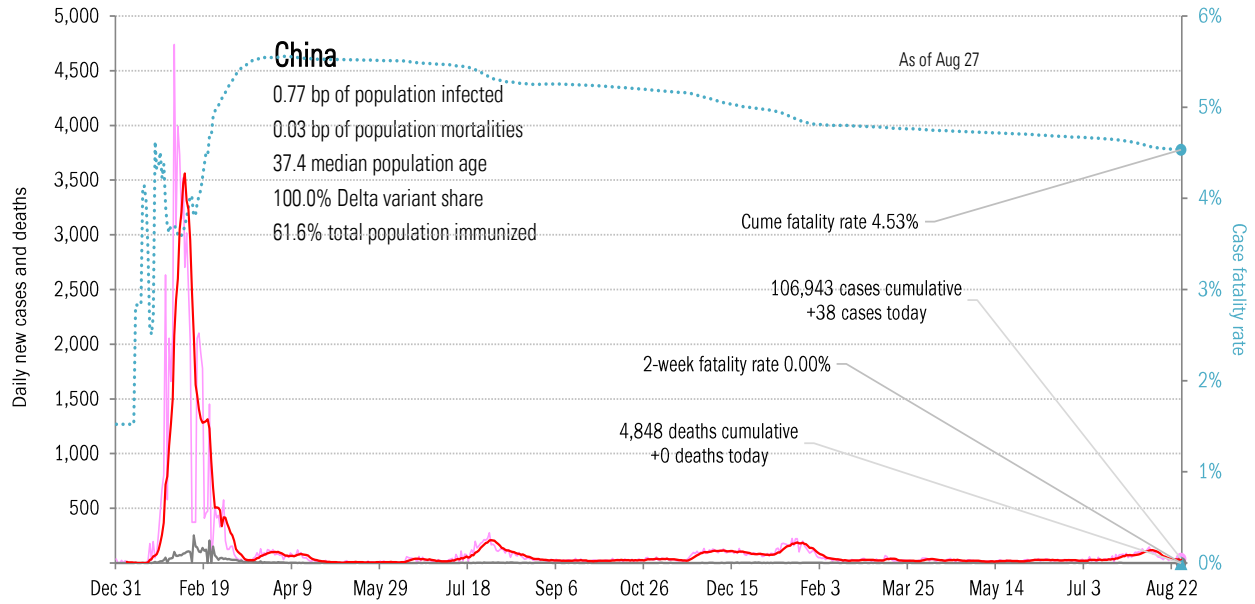
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

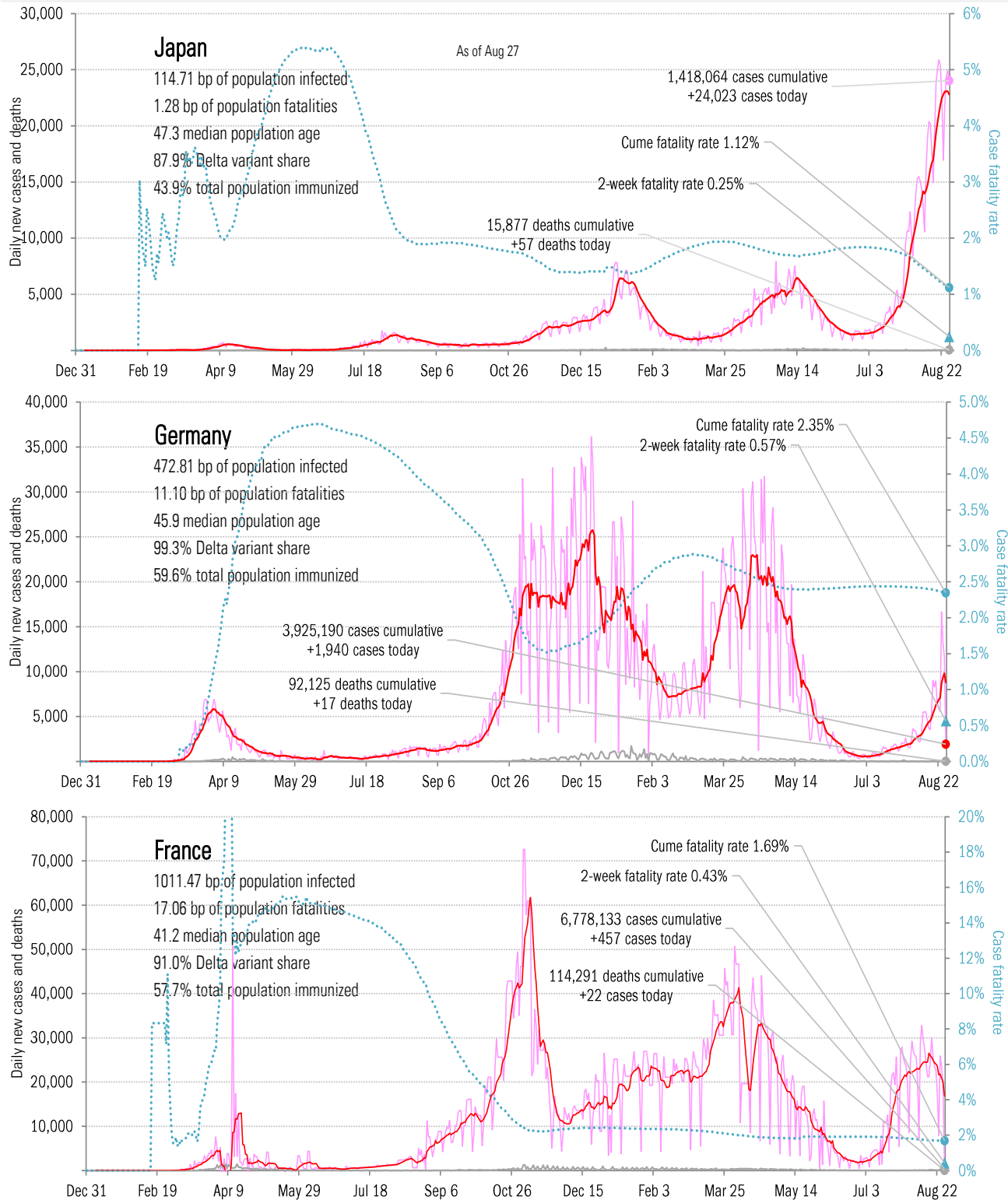
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

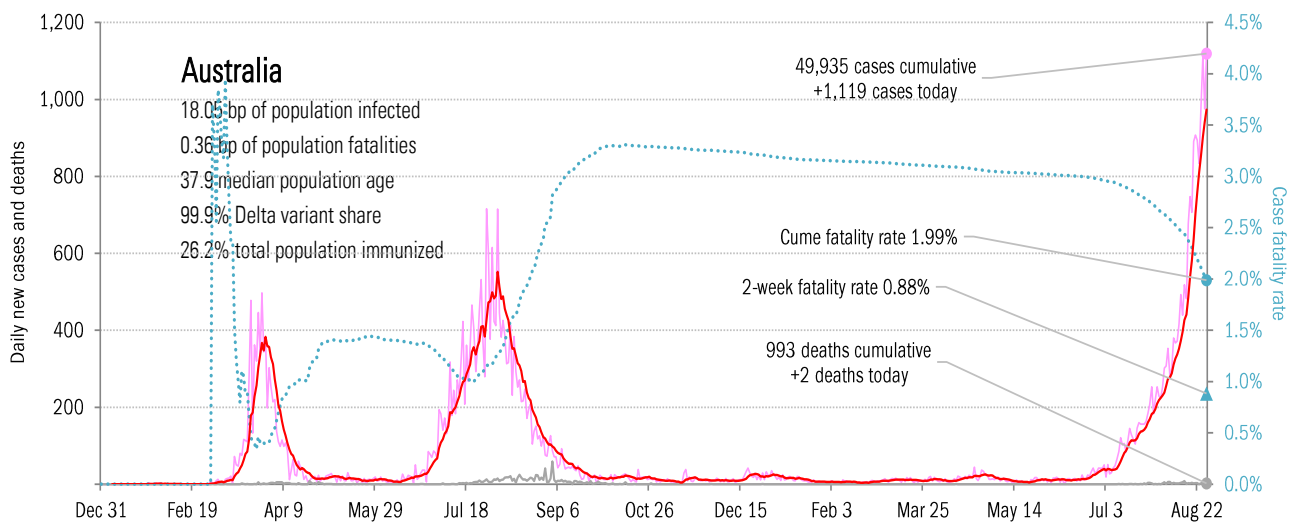
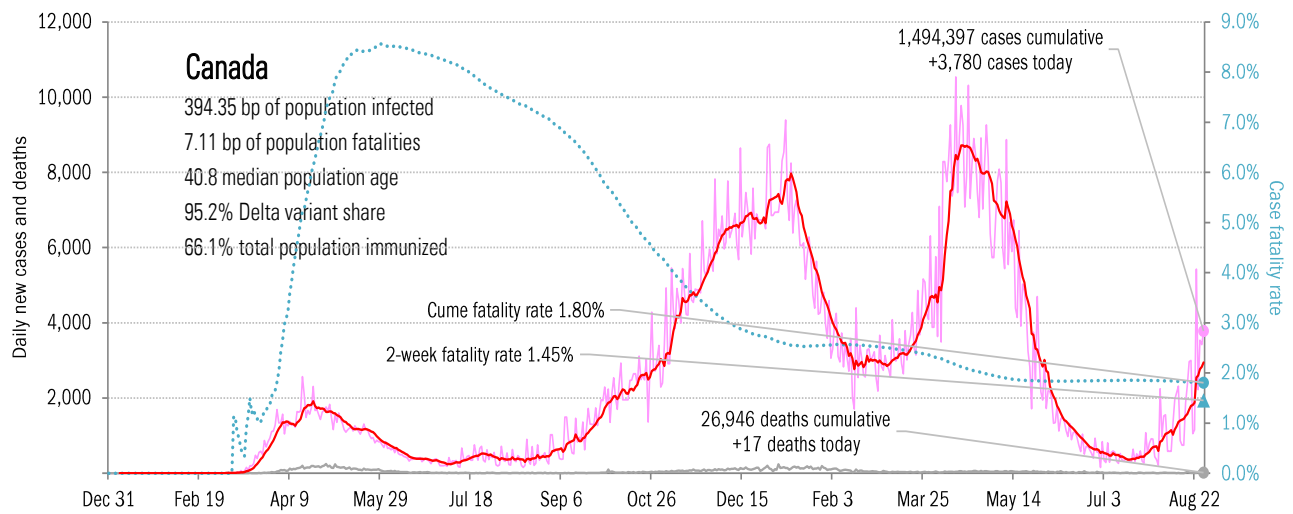
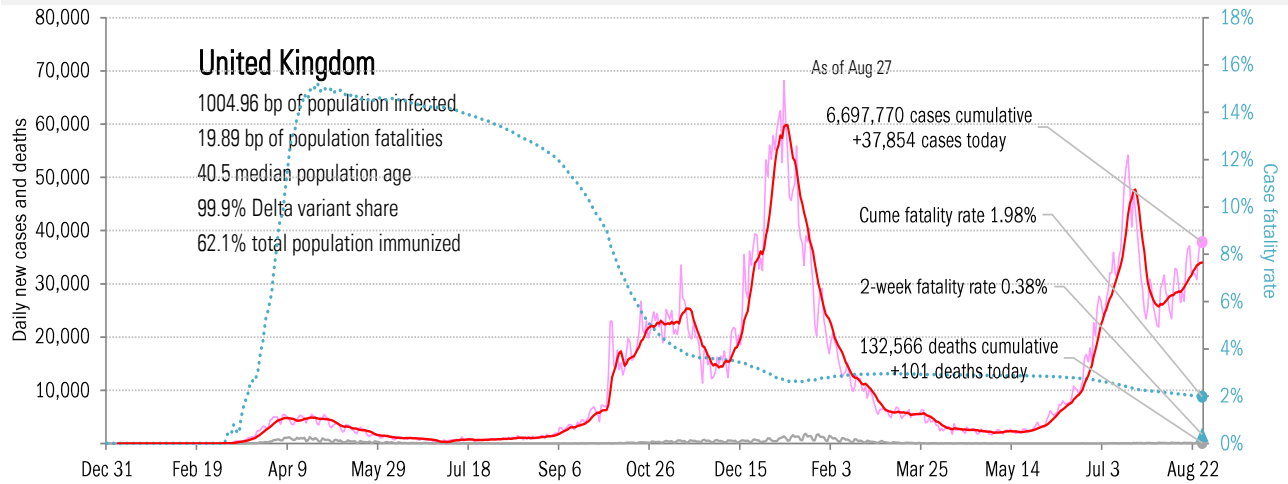
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

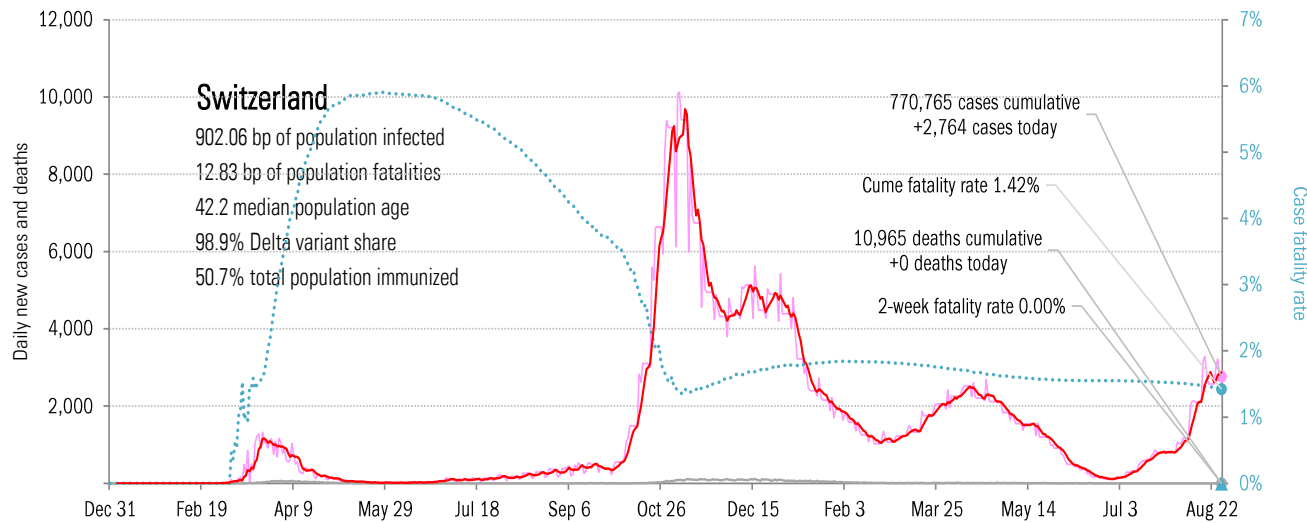
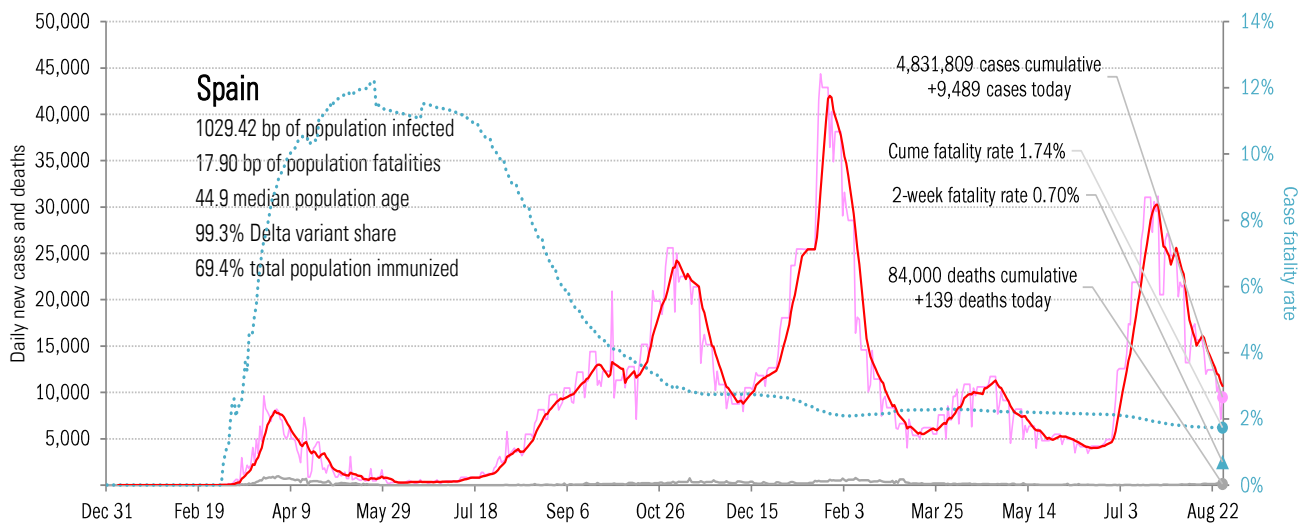
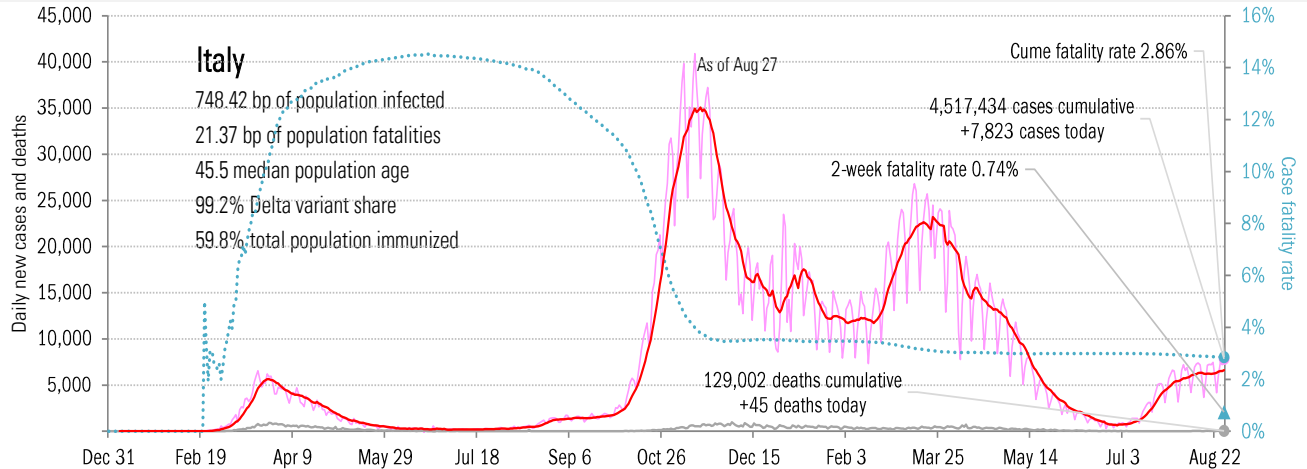
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

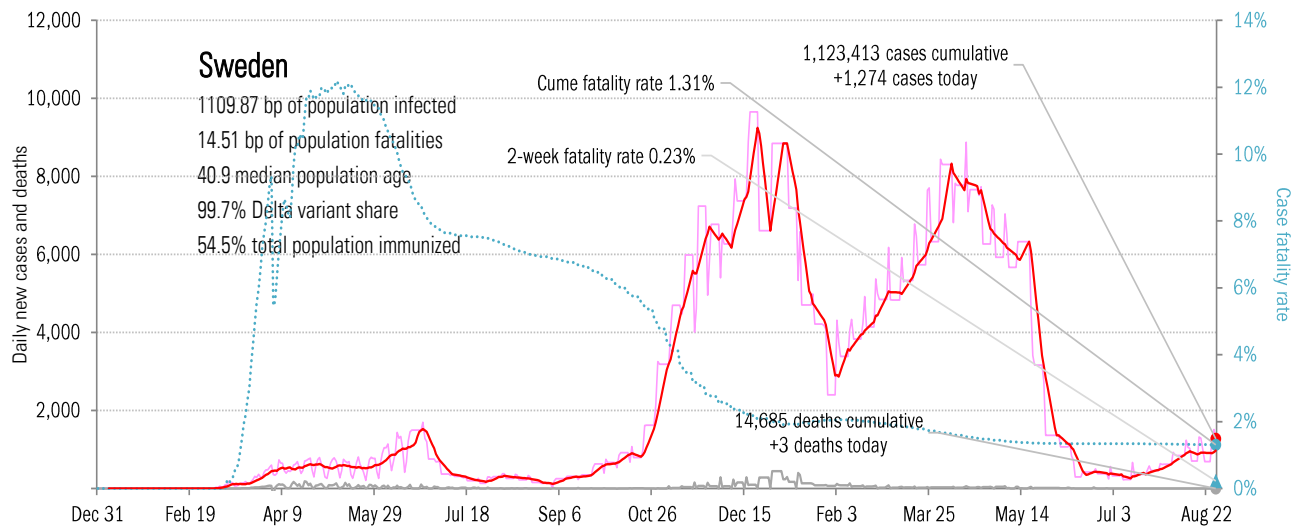
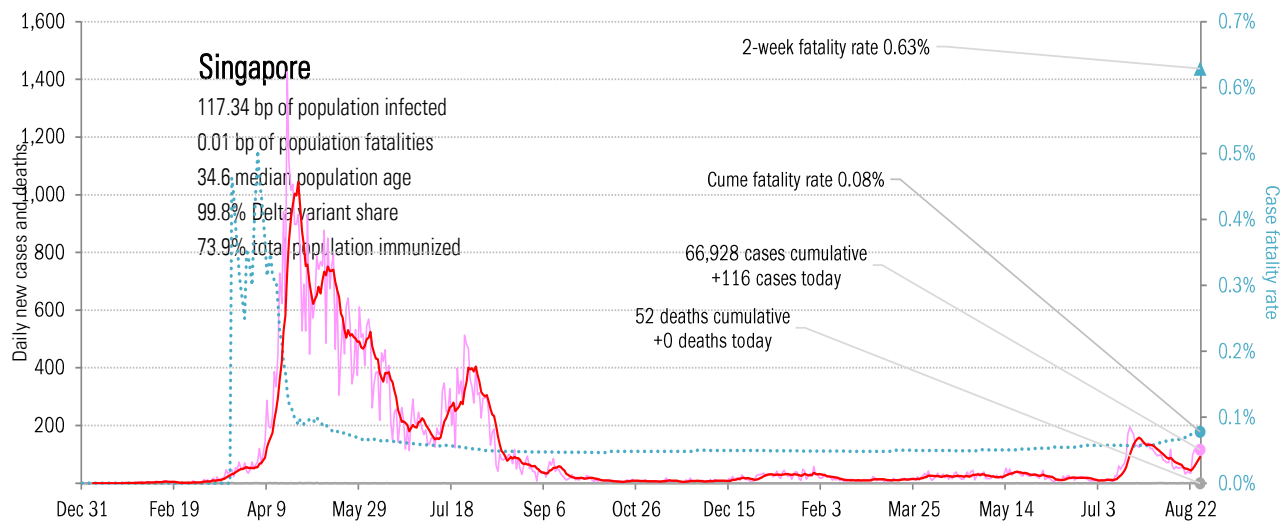
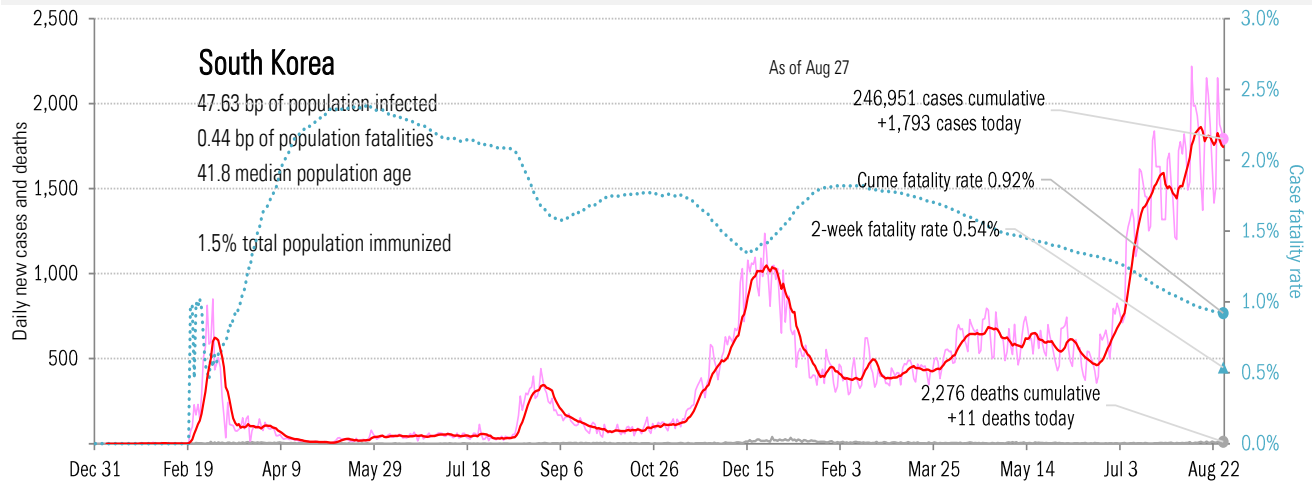
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

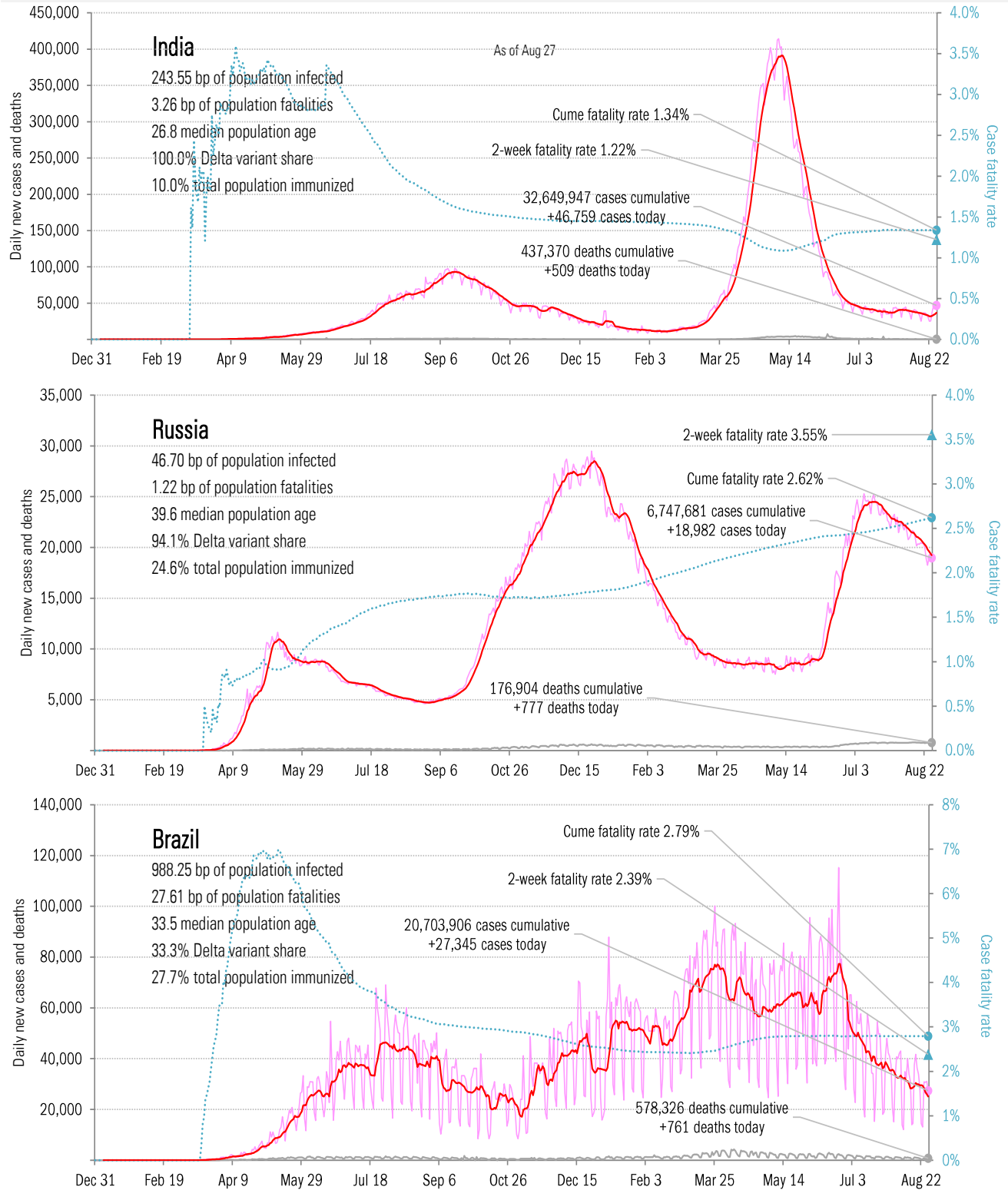
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

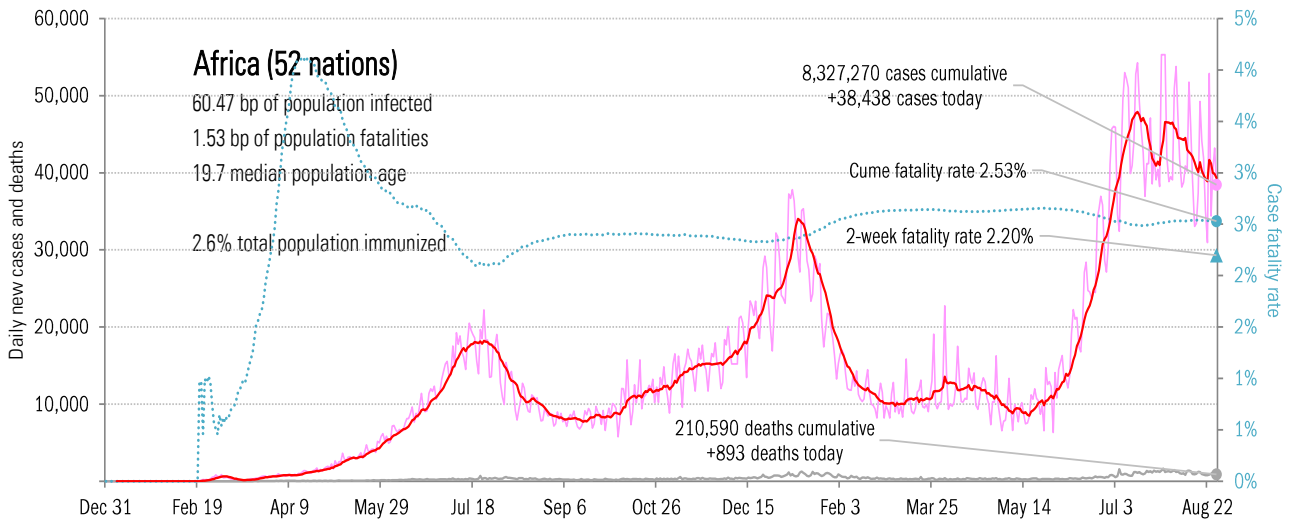
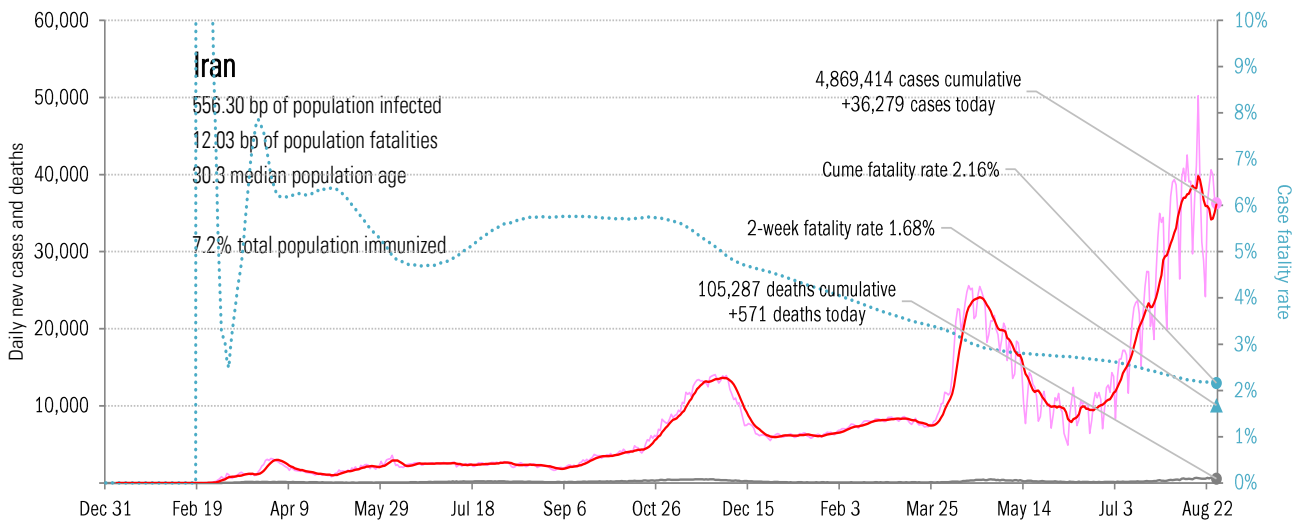
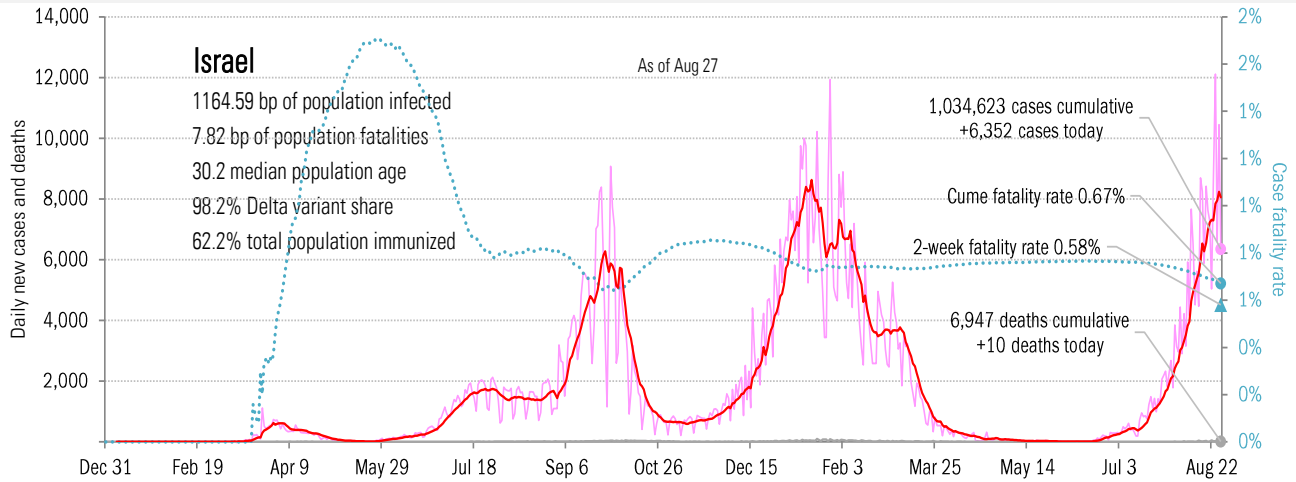
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

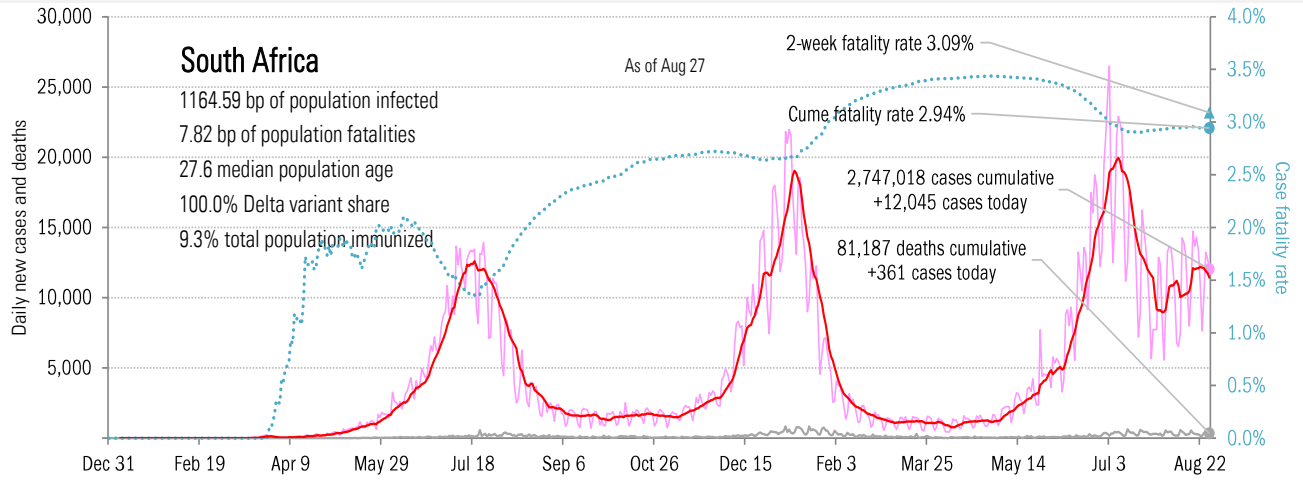
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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