

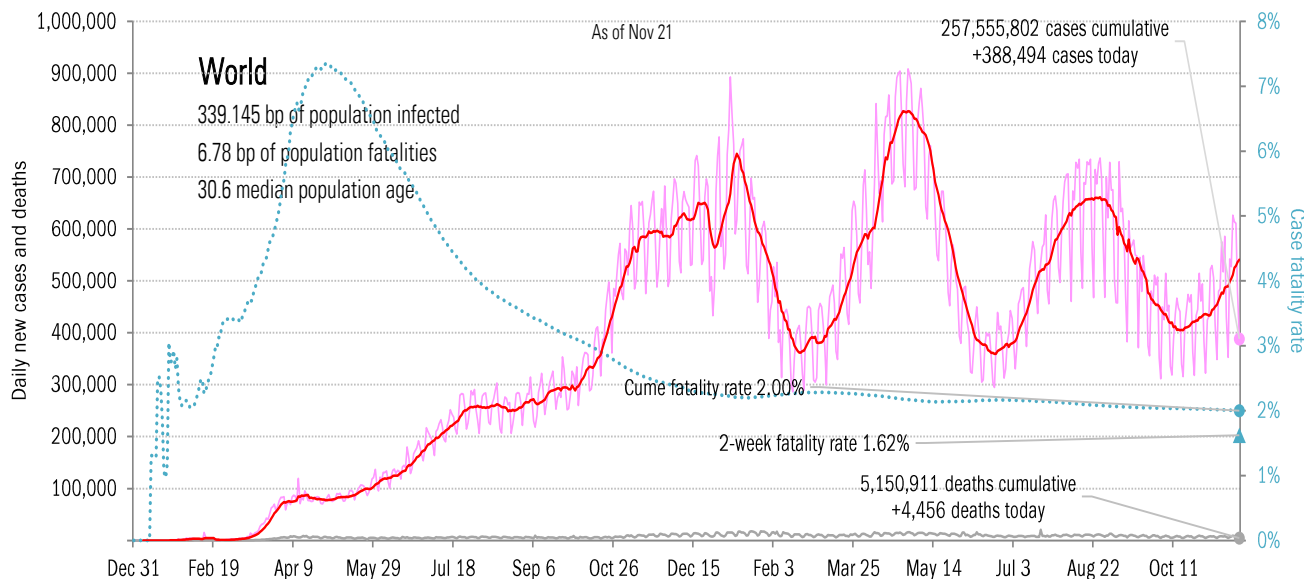
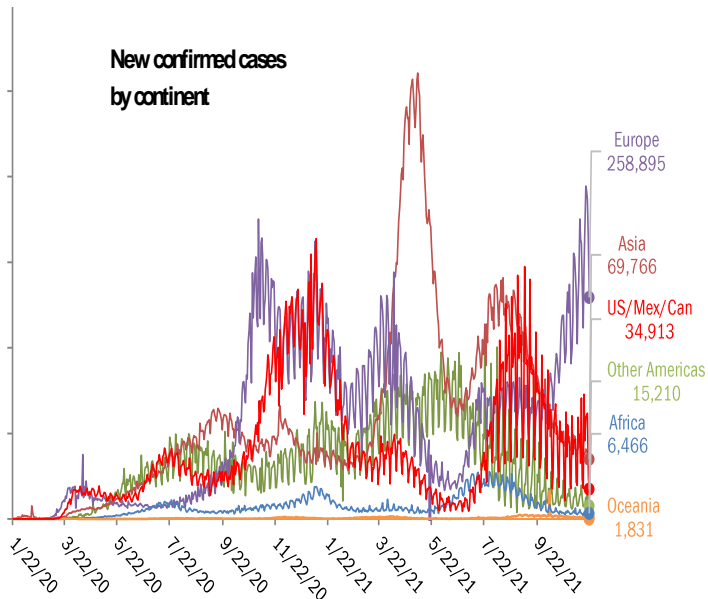
Data Insights: Covid-2019 Monitor

Monday, November 22, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

| The worst ten countries | | | |
|-------------------------|---------|---------------|--------|
| New cases | | New Deaths | |
| United Kingdom | +39,548 | Russia | +1,216 |
| Russia | +35,749 | Ukraine | +413 |
| United States | +30,132 | India | +249 |
| Germany | +26,241 | Mexico | +227 |
| Turkey | +21,177 | Turkey | +195 |
| Netherlands | +20,685 | Philippines | +171 |
| France | +19,757 | United States | +160 |
| Poland | +18,924 | Romania | +121 |
| Czechia | +14,442 | Iran | +104 |
| Austria | +14,042 | Georgia | +76 |
| +240,697 | | +2,932 | |
| World +388,494 | | World +4,456 | |
| Top ten 62% | | Top ten 66% | |



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

For more information contact us:

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

Cases: 7-day average and daily Deaths: Daily

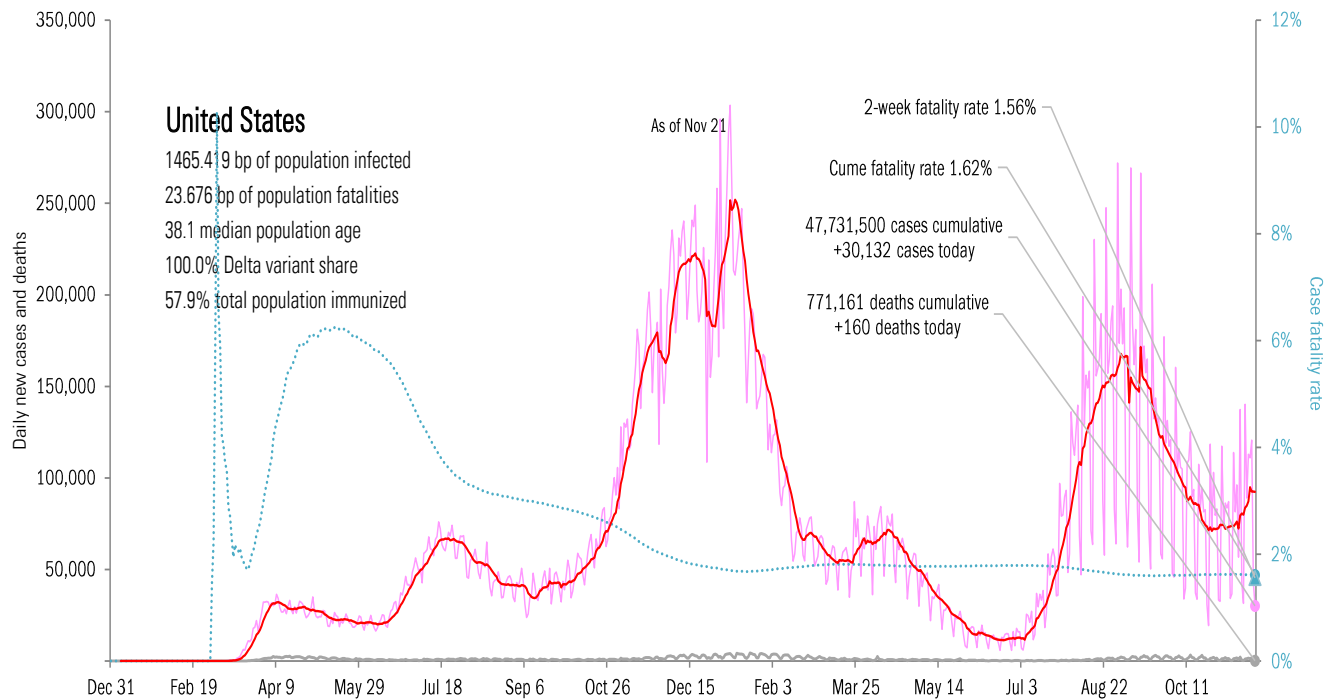
The ten worst US states

| New cases | | | New Deaths | | | New in hospital | | | Cum cases | | | Cum deaths | | | Cum in hospital | | | Hospital use | | ICU use | |
|----------------|---------|--|-------------|------|--|-----------------|------|--|-------------------|------------|--|----------------|---------|--|------------------|-----------|--|--------------|-----|---------|-----|
| NY | +8,441 | | FL | +55 | | GA | +112 | | CA | 5,037,933 | | CA | 73,731 | | TX | 381,219 | | RI | 87% | NM | 92% |
| PA | +5,417 | | NY | +32 | | MI | +109 | | TX | 4,307,087 | | TX | 73,378 | | FL | 322,146 | | MA | 86% | RI | 91% |
| CH | +3,797 | | TX | +27 | | NY | +92 | | FL | 3,722,412 | | FL | 61,124 | | CA | 317,713 | | MI | 86% | MI | 88% |
| AZ | +3,629 | | PA | +13 | | IN | +58 | | NY | 2,674,200 | | NY | 57,190 | | NY | 169,273 | | PA | 85% | DE | 87% |
| NJ | +1,602 | | CA | +11 | | TX | +57 | | IL | 1,763,866 | | PA | 32,924 | | GA | 162,345 | | MD | 84% | TX | 86% |
| FL | +1,413 | | MD | +10 | | CH | +55 | | PA | 1,686,169 | | GA | 30,162 | | CH | 130,788 | | WA | 83% | MN | 84% |
| CA | +1,049 | | NJ | +4 | | FL | +46 | | GA | 1,654,649 | | IL | 28,660 | | PA | 122,999 | | MN | 83% | ID | 84% |
| MD | +1,006 | | AR | +3 | | PA | +45 | | CH | 1,642,867 | | NJ | 28,254 | | KY | 113,332 | | CT | 83% | KY | 84% |
| MO | +857 | | MO | +2 | | TN | +38 | | NC | 1,514,879 | | CH | 26,063 | | IL | 108,306 | | NY | 82% | NV | 84% |
| TX | +698 | | AZ | +1 | | NC | +36 | | MI | 1,408,419 | | MI | 24,841 | | MI | 99,113 | | MO | 82% | NE | 84% |
| +27,909 | | | +158 | | | +648 | | | 25,412,481 | | | 436,327 | | | 1,927,234 | | | | | | |
| All states | +30,132 | | | +160 | | | +947 | | All states | 47,731,500 | | | 771,161 | | | 3,458,630 | | All states | 70% | | 67% |
| Top ten | 93% | | | 99% | | | 68% | | Top ten | 53% | | | 57% | | | 56% | | Median | 76% | | 78% |

Some states not reporting

Five most improved US states

| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | | Most pop immunity growth | |
|-------------------|--------|------------------|-----|----------------------------|-----|--------------------------|--------|
| IA | -3,876 | PA | -73 | CA | -72 | AL | +10 bp |
| CH | -1,793 | AZ | -52 | UT | -37 | AZ | +10 bp |
| AZ | -1,474 | TX | -48 | IL | -30 | CA | +10 bp |
| NE | -1,131 | CA | -15 | ND | -17 | CO | +10 bp |
| PA | -1,007 | AL | -10 | MS | -15 | CT | +10 bp |

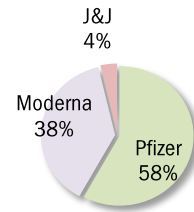


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

| Administered | Cumulative | Today | Immunity | Full | Partial |
|------------------|-----------------|----------------|---------------|--------------|-------------------------|
| Doses | 463,862,485 | +1.537 million | US | 57.9% | 68.5% |
| Boosters | 36,009,357 | +0.909 million | UK | 67.7% | 74.4% |
| | One dose | % Pop | Immune | % pop | New immune today |
| Total population | 236,102,479 | 71% | 201,347,647 | 60% | +0.160 million |
| Age 12 to 17 | 14,558,066 | 61% | 12,206,665 | 51% | +0.013 million |
| Age 18 to 64 | 161,123,092 | 79% | 139,262,205 | 68% | +0.122 million |
| Age 65 and over | 56,586,400 | 100% | 48,934,578 | 89% | +0.024 million |

| | | |
|-----------|-------|-------|
| France | 69.0% | 76.4% |
| Spain | 80.3% | 81.7% |
| Germany | 67.4% | 69.9% |
| Italy | 73.0% | 77.8% |
| Australia | 71.1% | 76.7% |
| Israel | 62.0% | 67.4% |
| Canada | 75.8% | 79.2% |
| Japan | 76.5% | 79.0% |
| Africa | 6.9% | 10.1% |
| India | 28.8% | 55.0% |
| Brazil | 60.0% | 75.9% |
| China | 74.5% | 84.8% |



State

At least partial immunity as % population

Full immunity as % population

Best

Middle

Worst

Every American >18 immunized in **175 days** by May 14, 2022

72.9% of population >18 immunized

17.0% previously tested positive

89.9% vs 60% adult herd immunity

Global data differs due to sources, timing

| |
|-------|
| AK |
| 61.9% |
| 53.9% |

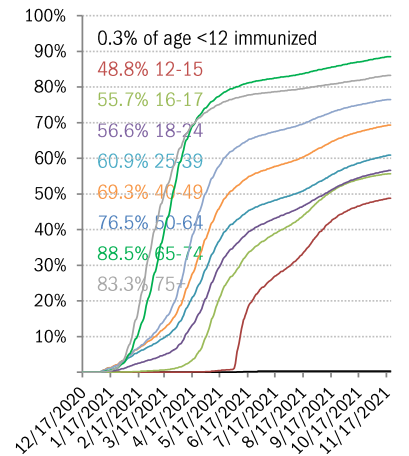
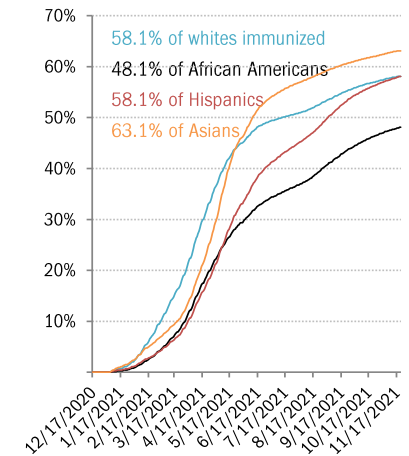
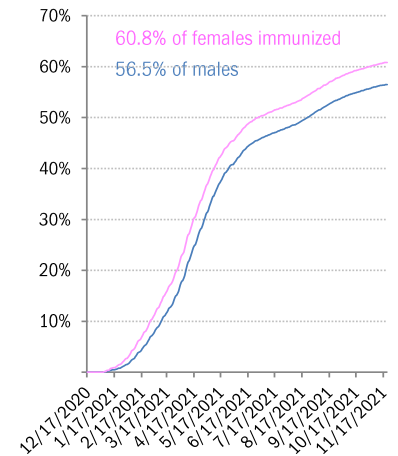
| |
|-------|
| WI |
| 65.1% |
| 59.2% |

As of Nov 21

| |
|-------|
| ME |
| 80.6% |
| 71.9% |

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| WA | ID | MT | ND | MN | IL | MI | NY | VT | NH | |
| 71.8% | 50.4% | 59.1% | 57.1% | 68.1% | 66.9% | 60.5% | 77.1% | 83.8% | 84.3% | |
| 64.6% | 45.0% | 51.6% | 48.4% | 62.1% | 61.1% | 54.3% | 68.1% | 72.5% | 64.0% | |
| OR | NV | WY | SD | IA | IN | OH | PA | NJ | MA | |
| 70.6% | 65.6% | 53.0% | 65.2% | 61.9% | 55.3% | 57.7% | 83.7% | 78.1% | 84.4% | |
| 63.7% | 54.1% | 45.2% | 54.1% | 56.4% | 50.4% | 52.7% | 62.0% | 67.4% | 70.7% | |
| CA | UT | CO | NE | MO | KY | WV | VA | MD | CT | RI |
| 77.8% | 63.6% | 70.6% | 63.2% | 59.1% | 59.6% | 53.8% | 74.5% | 74.6% | 82.8% | 82.0% |
| 62.7% | 55.2% | 62.8% | 57.1% | 50.7% | 51.8% | 41.5% | 64.5% | 67.0% | 71.7% | 72.1% |
| AZ | NM | KS | AR | TN | NC | SC | DC | DE | | |
| 63.5% | 75.5% | 65.3% | 59.9% | 56.2% | 68.6% | 59.6% | 79.5% | 71.3% | | |
| 54.3% | 63.2% | 54.3% | 49.0% | 49.2% | 53.8% | 51.1% | 63.9% | 60.9% | | |
| OK | LA | MS | AL | GA | | | | | | |
| 62.0% | 55.1% | 53.4% | 55.9% | 58.4% | | | | | | |
| 51.2% | 48.6% | 46.8% | 45.8% | 49.3% | | | | | | |
| TX | | | | | | | | | | |
| 63.4% | | | | | | | | | | |
| 54.4% | | | | | | | | | | |
| HI | | | | | | | FL | | PR | |
| 81.3% | | | | | | | 71.1% | | 84.3% | |
| 60.6% | | | | | | | 60.9% | | 74.4% | |

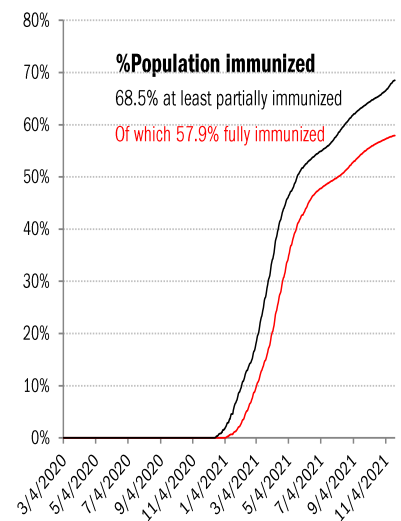
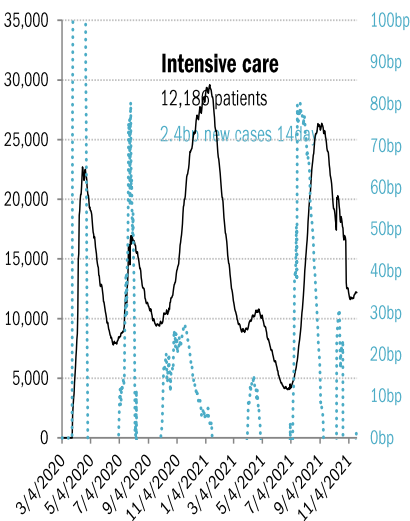
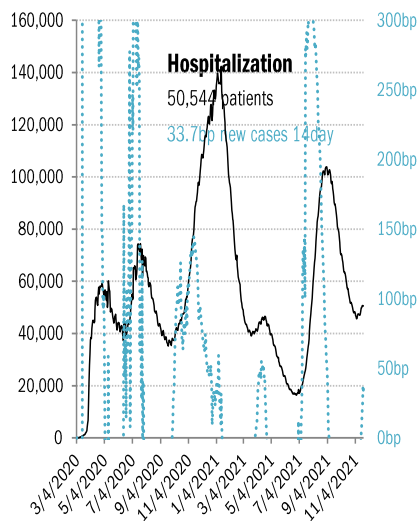
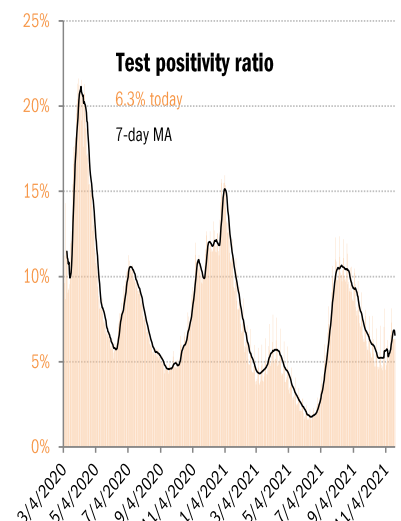
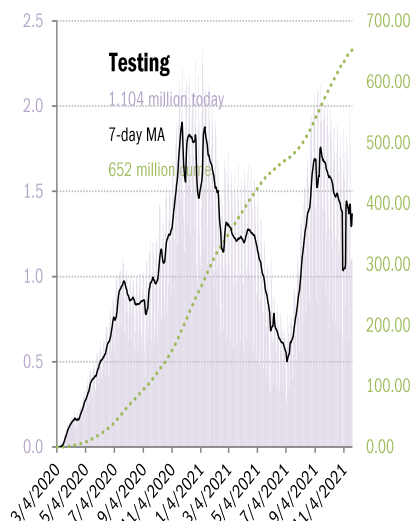
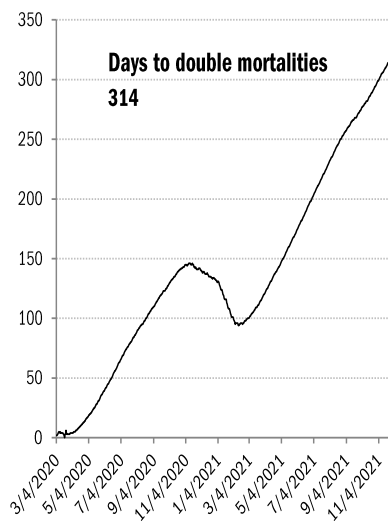
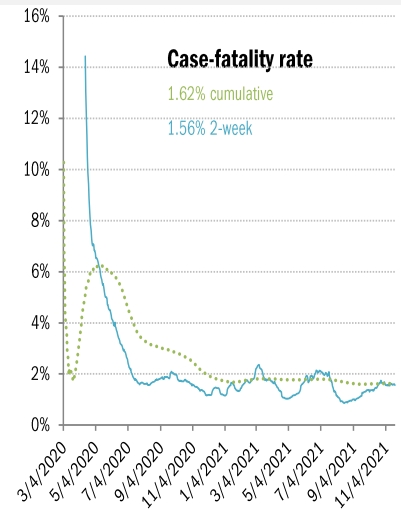
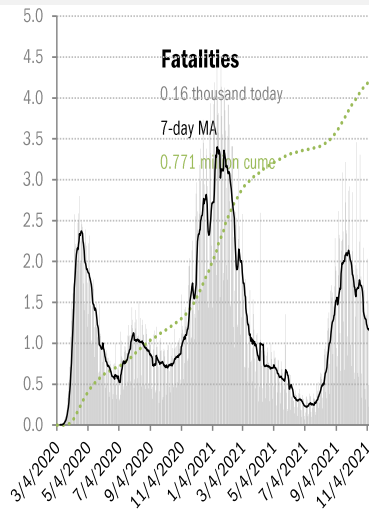
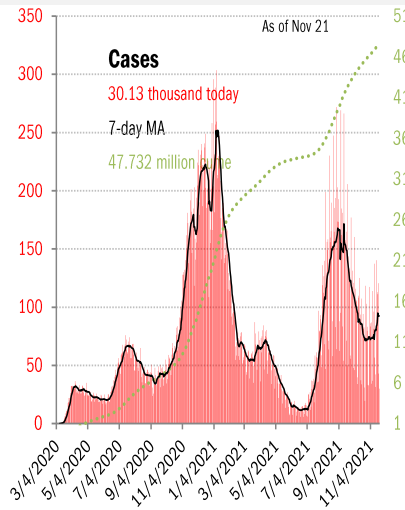
The demographics of US vaccination



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

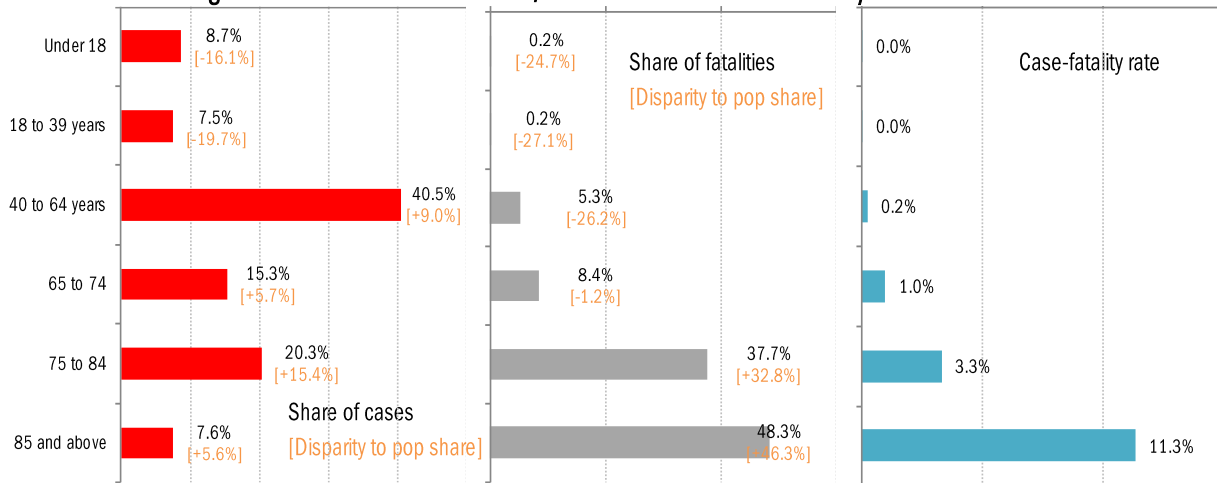
US deep-dive

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

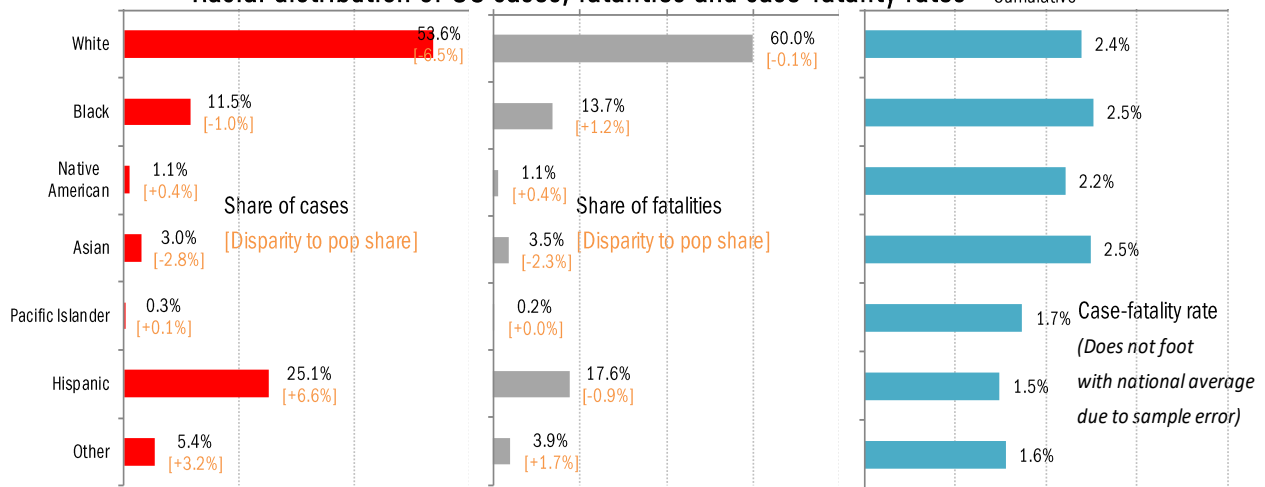


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

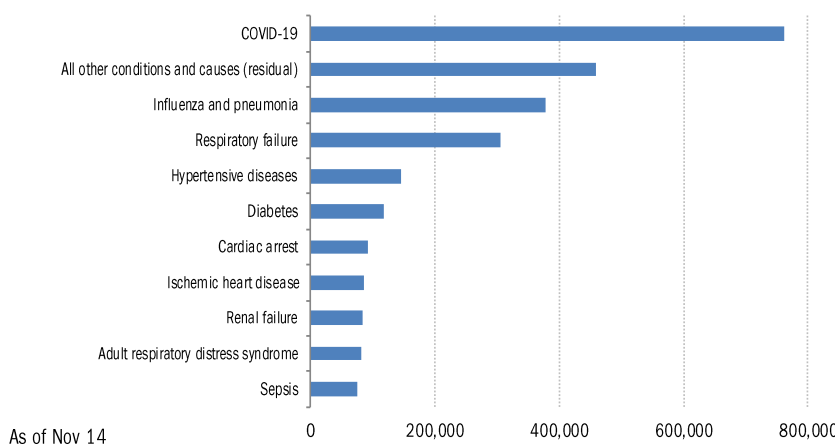


Racial distribution of US cases, fatalities and case-fatality rates



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

[European protests against Covid curbs spread to Brussels](#)

Javier Espinoza, Valentina Pop and Sam Jones
Financial Times
November 22, 2021

[Lockdown and vaccine mandates divide Austrians as cases soar.](#)

Melissa Eddy
New York Times
November 22, 2021

[Europe is getting tough on the unvaccinated and protests are spreading](#)

David Meyer
Fortune
November 22, 2021

[The Left Betrays the Working Class on Covid Mandates](#)

Ted Rall
Wall Street Journal
November 22, 2021

[Vaccine Holdouts Face \\$4,000 Fine in Austria's Virus Crackdown](#)

Marton Eder
Bloomberg
November 22, 2021

[Covid-19 Breakthrough Hospitalizations Concentrated Among Most Vulnerable](#)

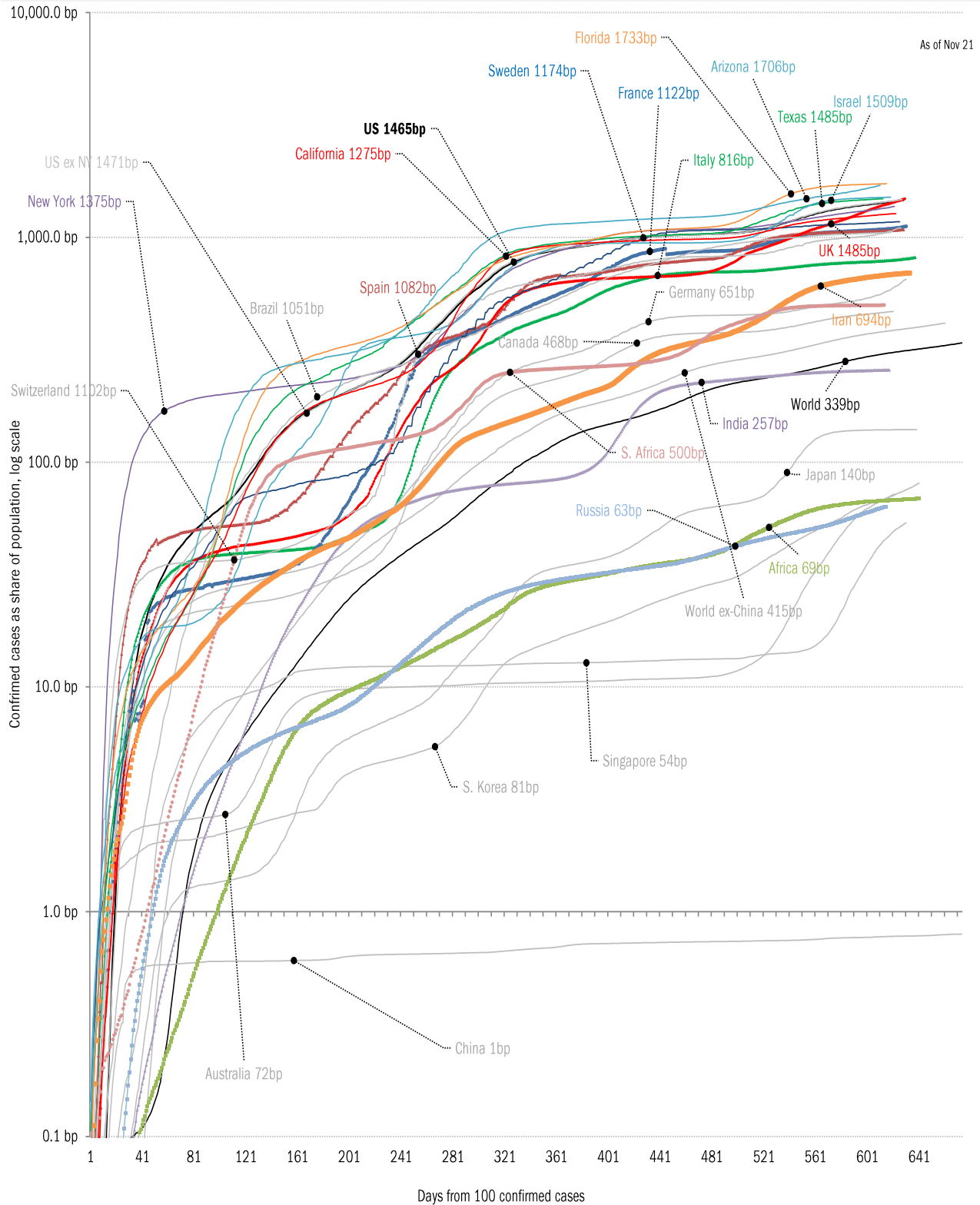
Jon Kamp and Melanie Evans
Wall Street Journal
November 21, 2021

Meme of the day



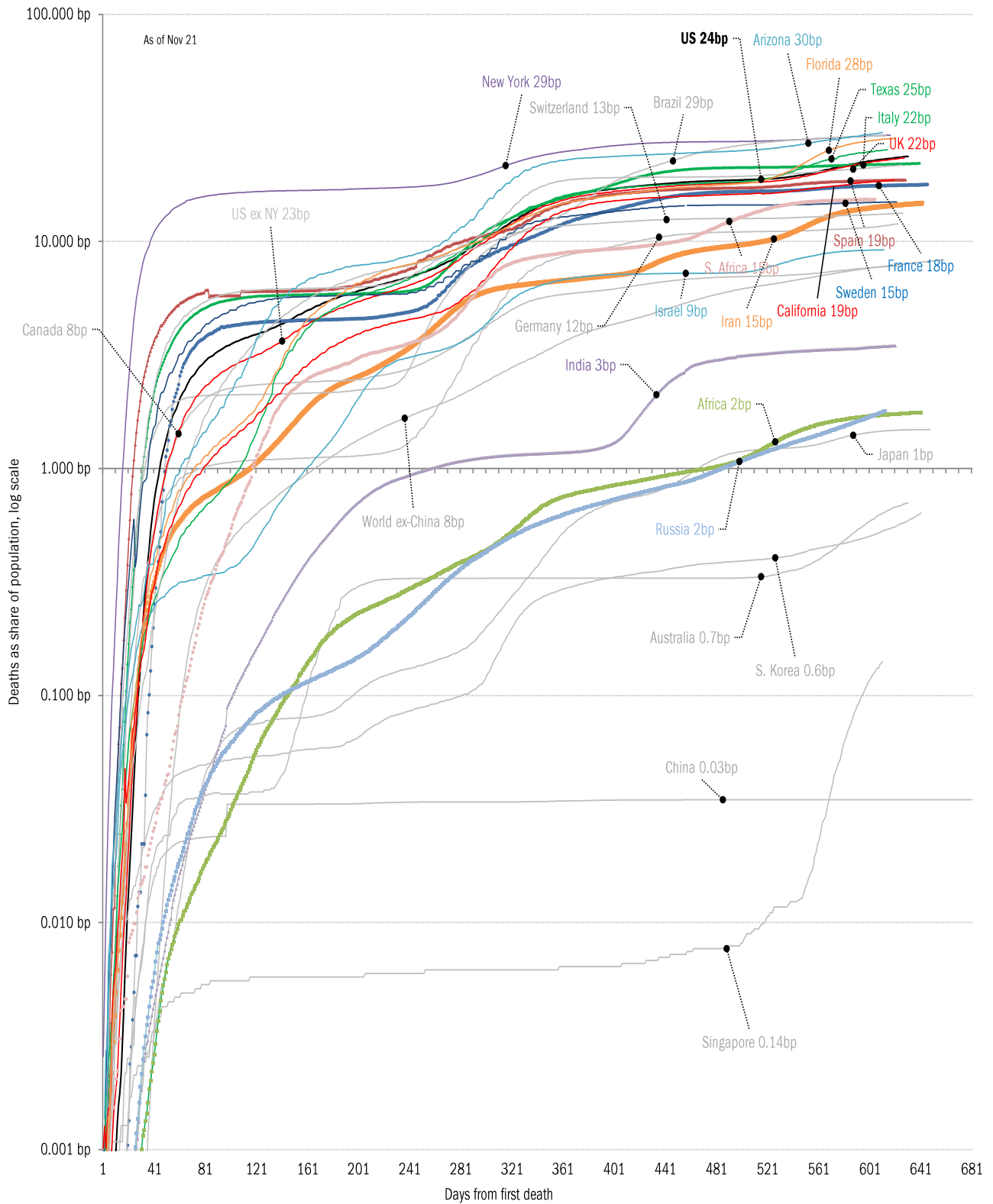
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

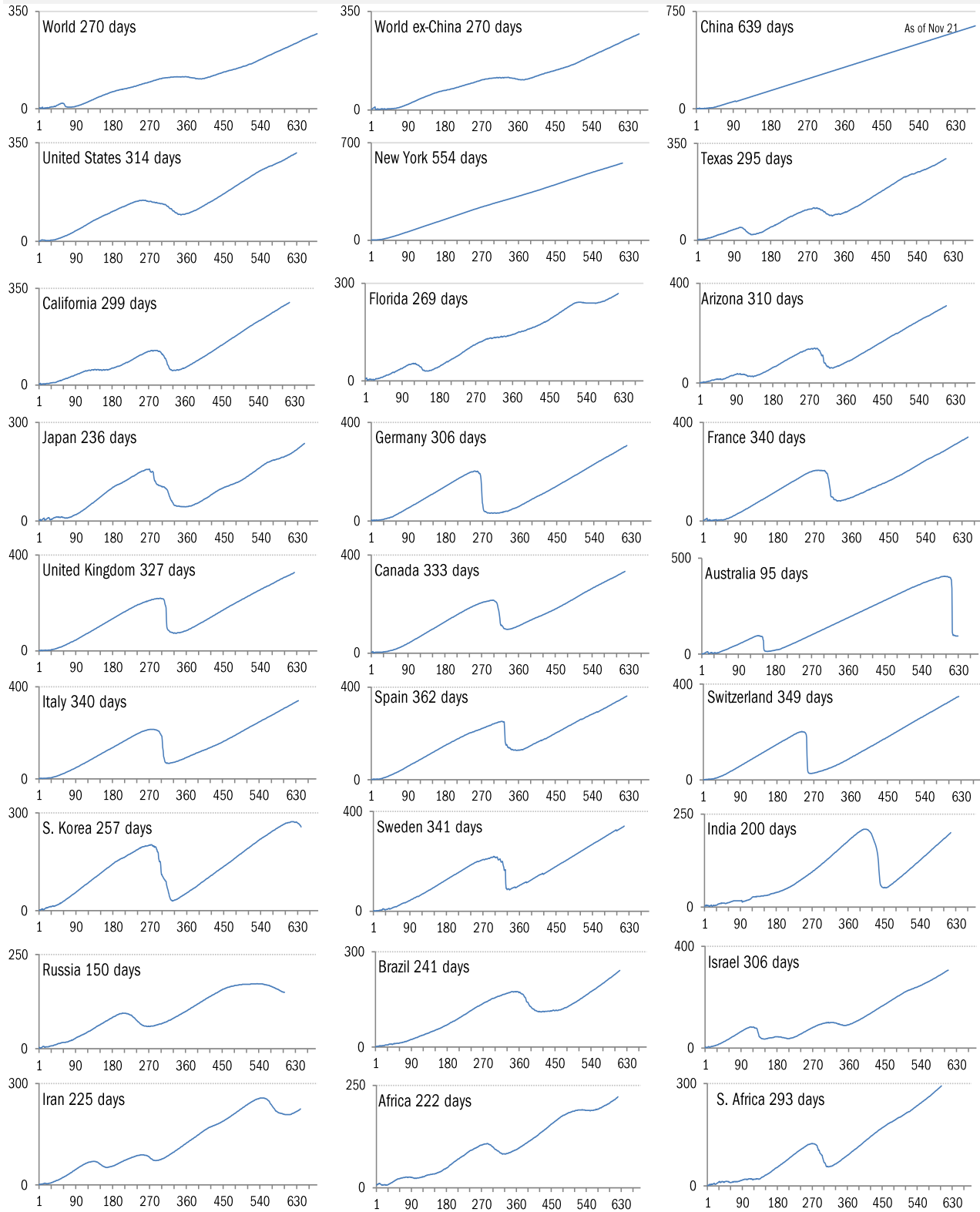


Source: [Johns Hopkins](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-19

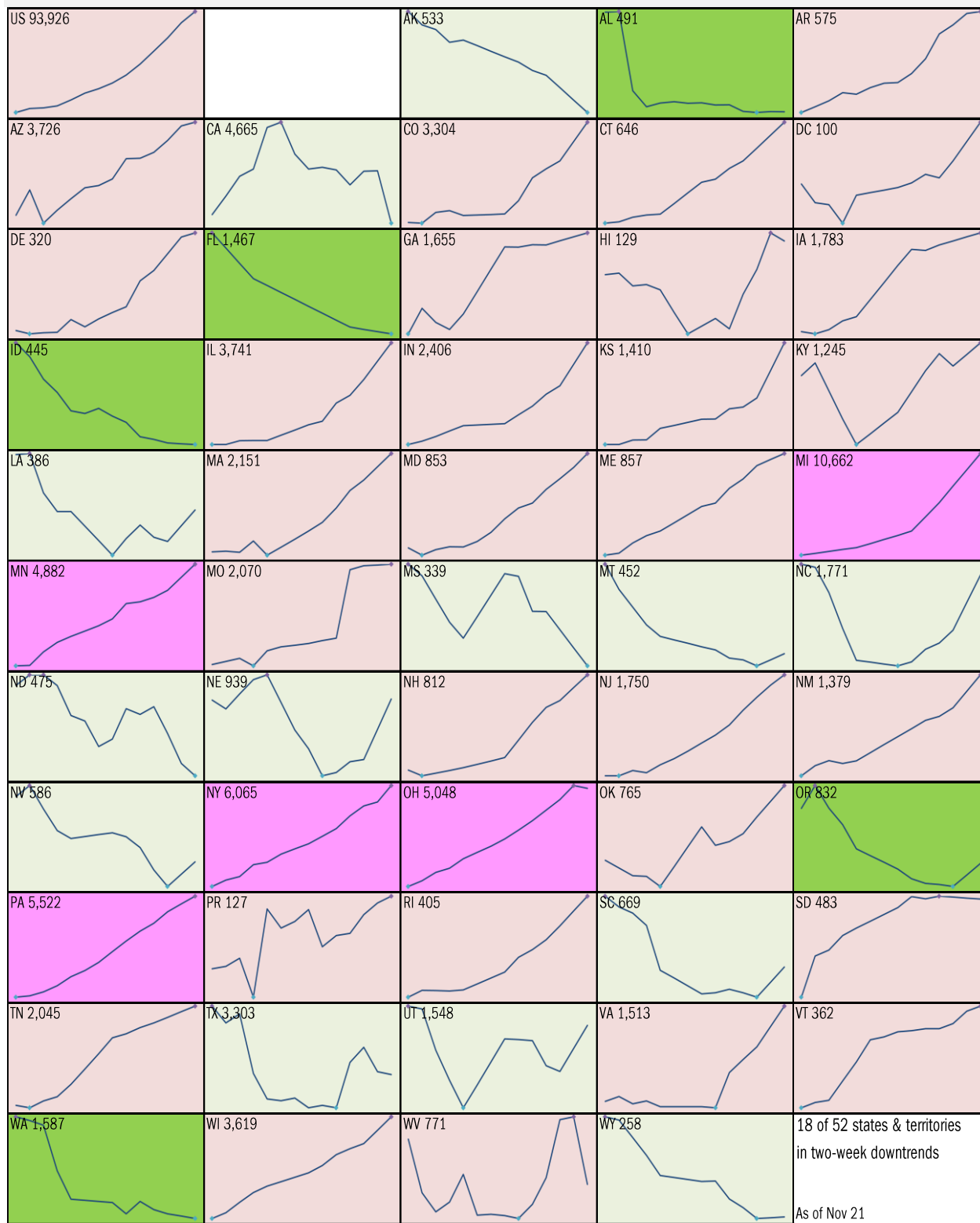
Vertical: days to double deaths Horizontal: days from first death

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread



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

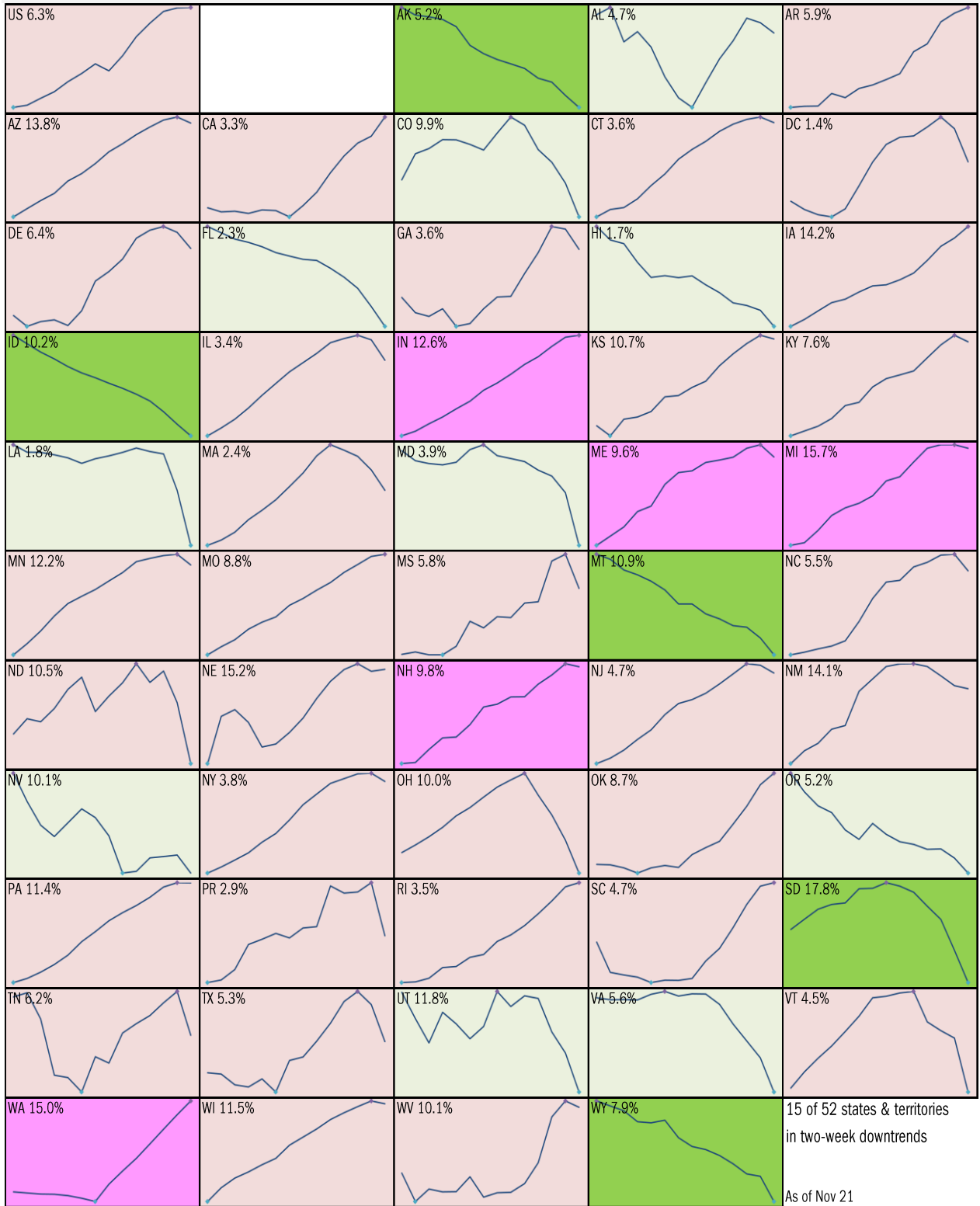
Requirement to [Open Up America Again](#): 14-day "downward trajectory" in new cases
 14-day moving average, last 14 days *Most recent value displayed* ● High ● Low
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

Alt requirement to [Open Up America Again](#): 14-day “downward trajectory” in pos tests

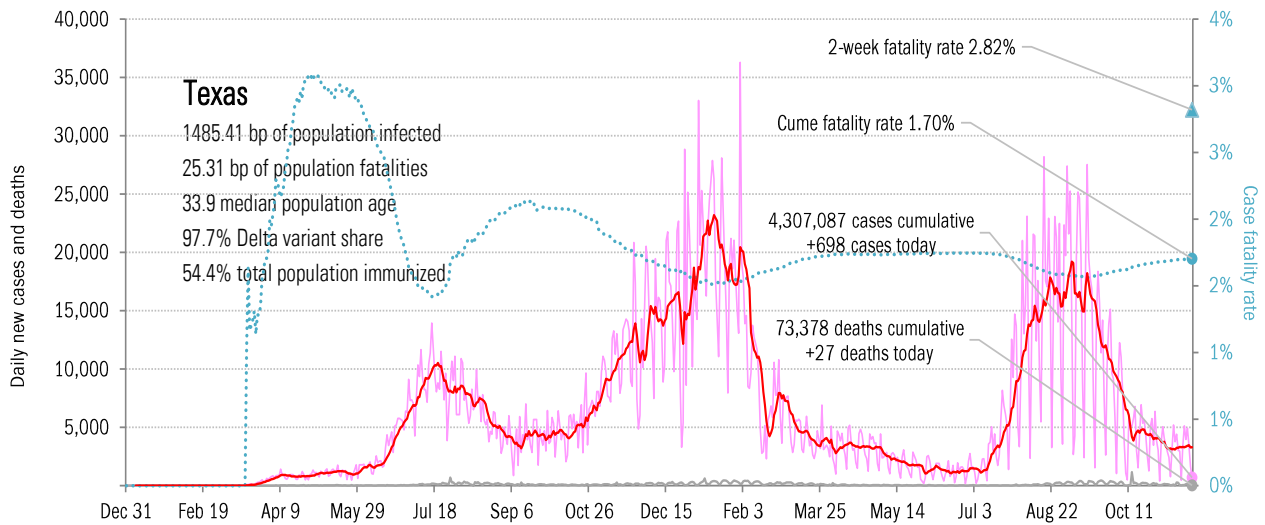
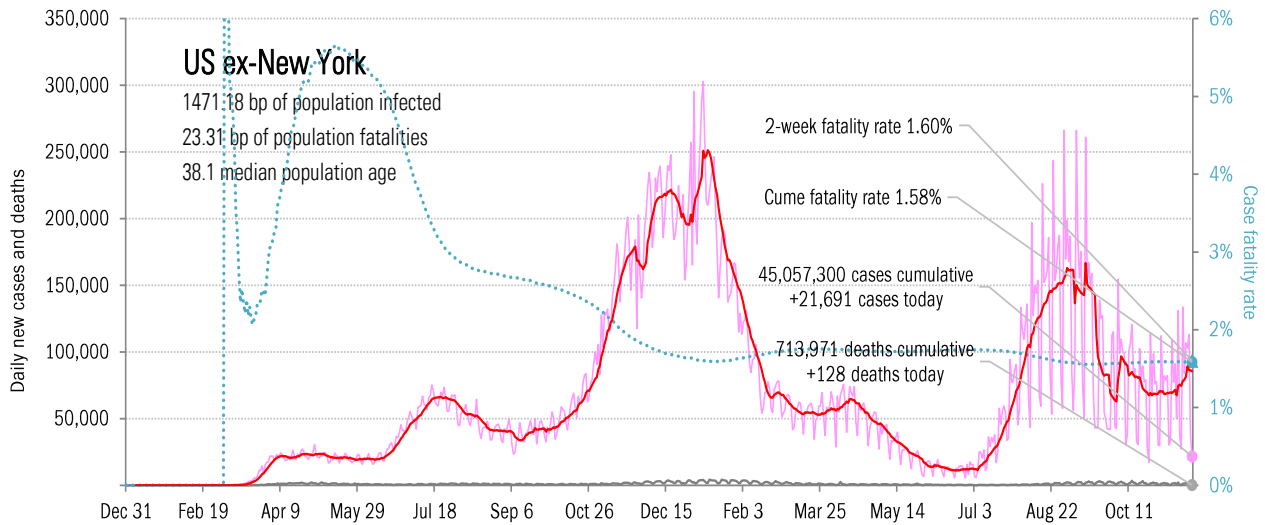
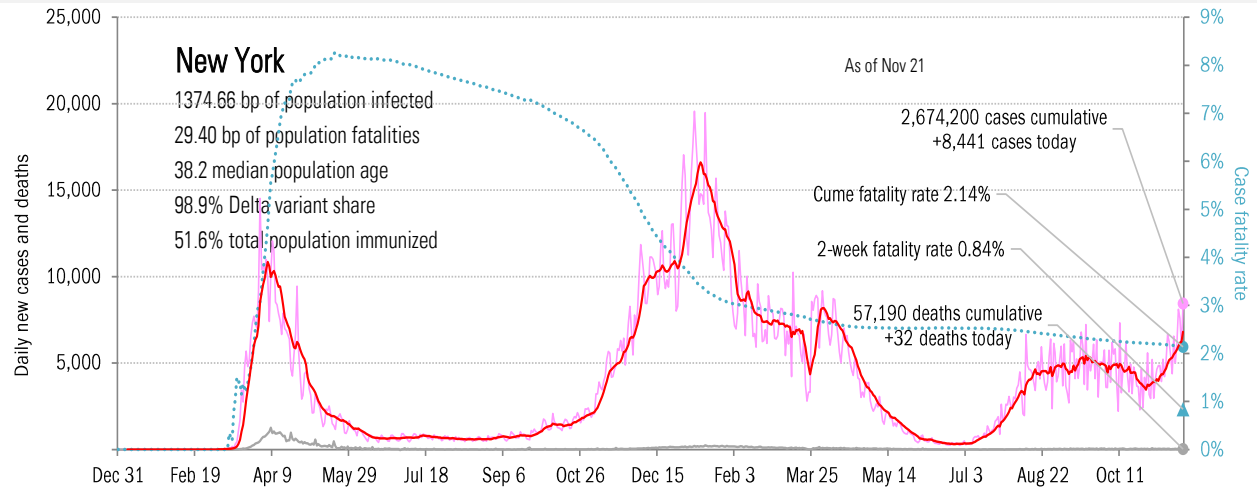
14-day moving average, last 14 days *Most recent value displayed* ● High ● Low
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

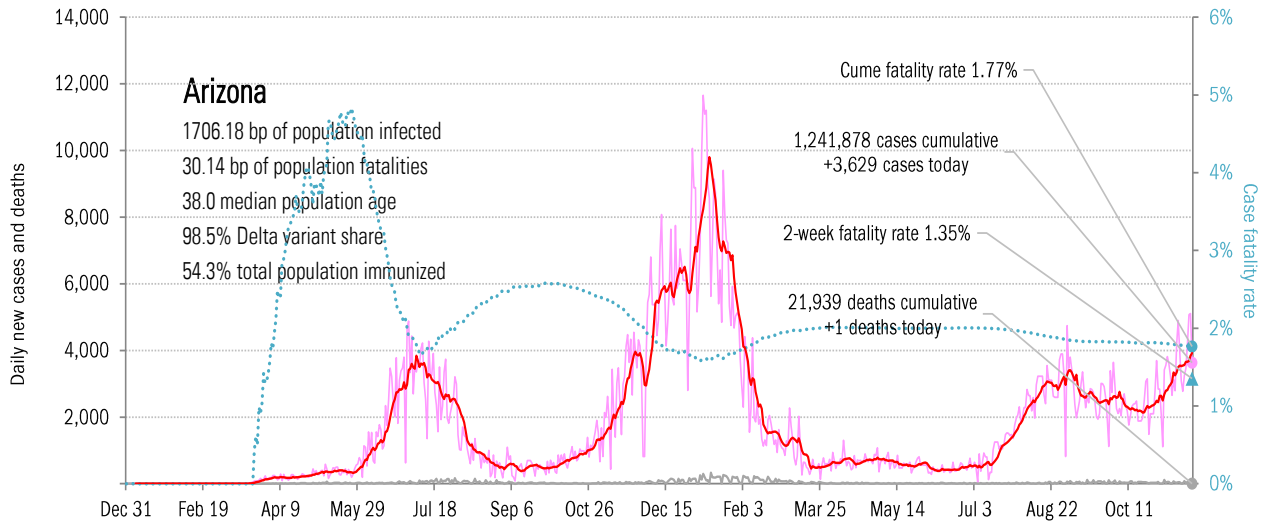
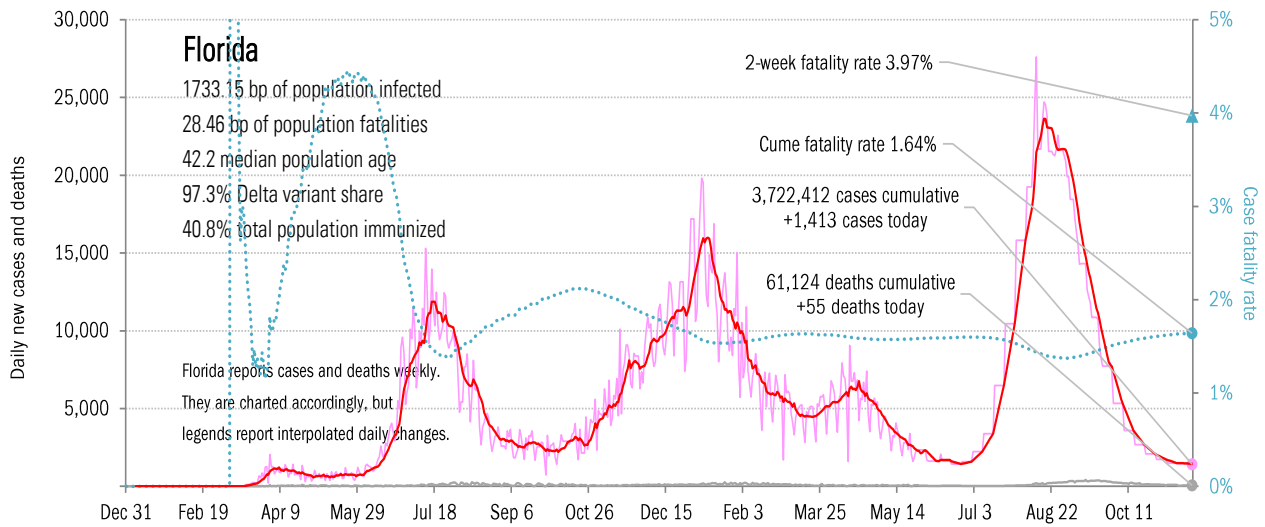
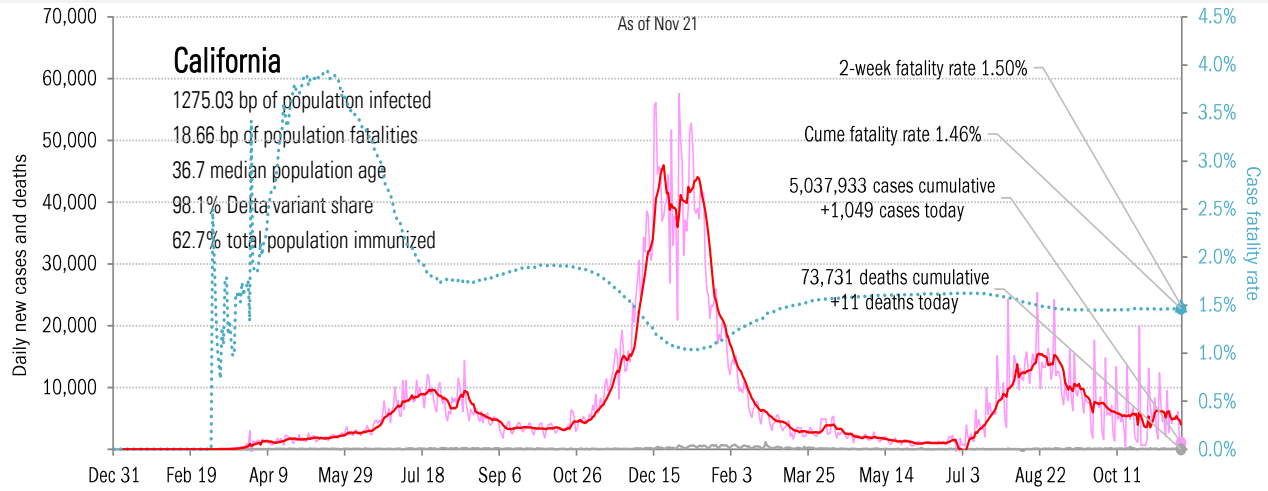
Cases: 7-day average and daily Deaths: Daily



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

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

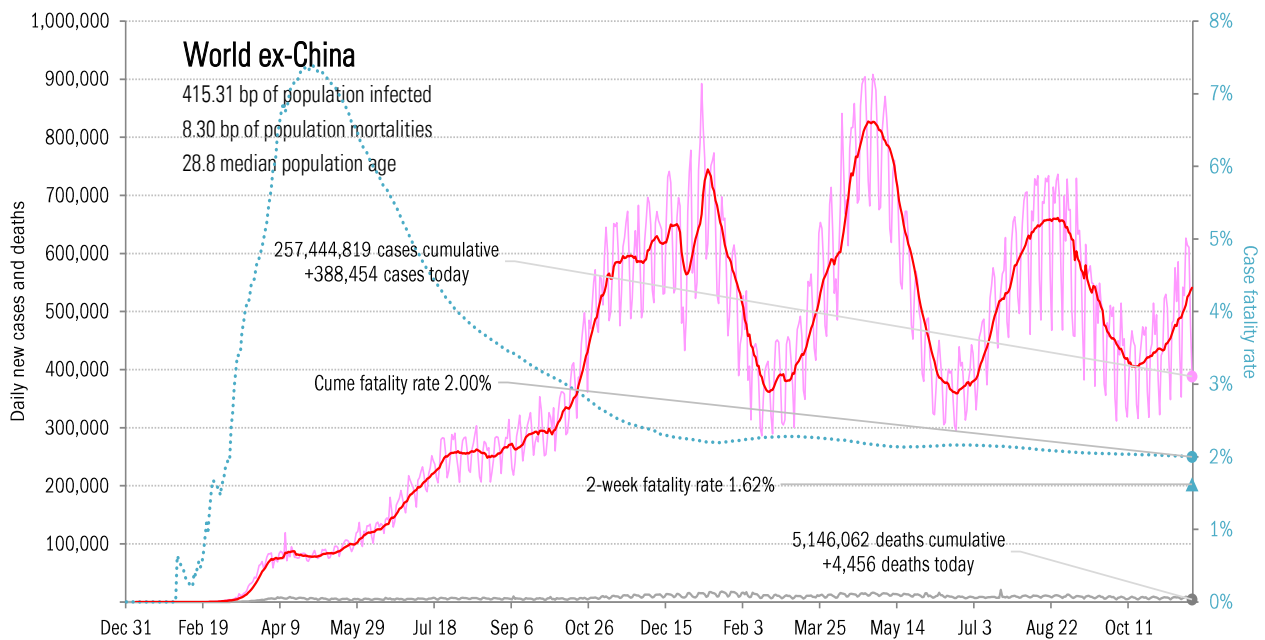
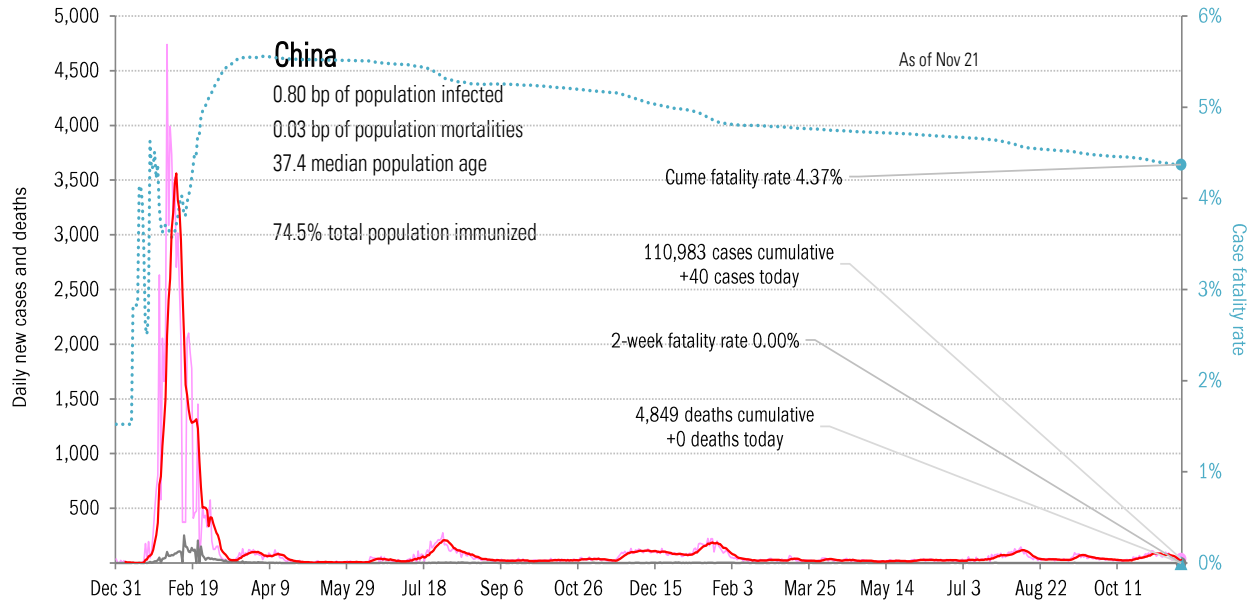
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

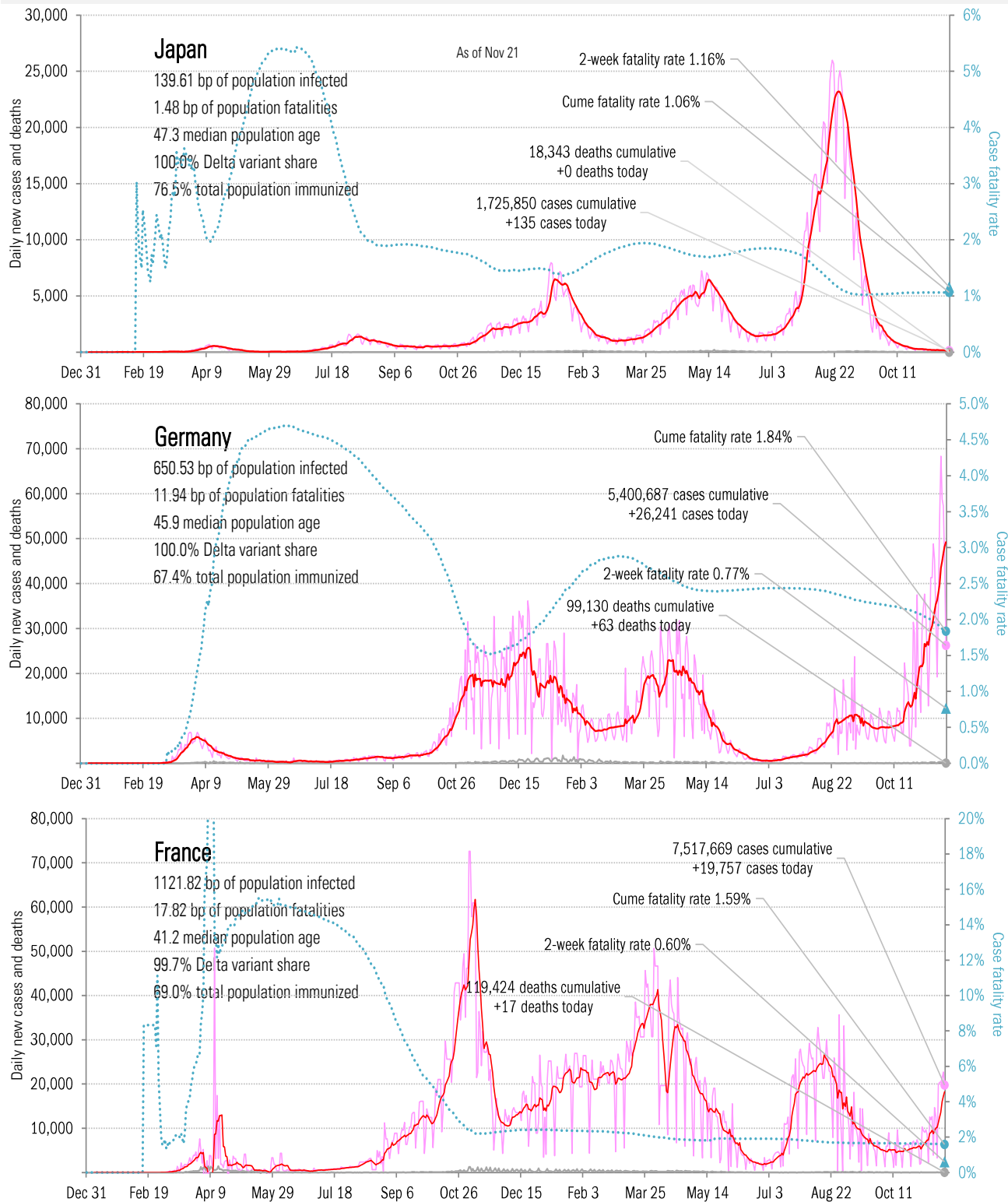
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

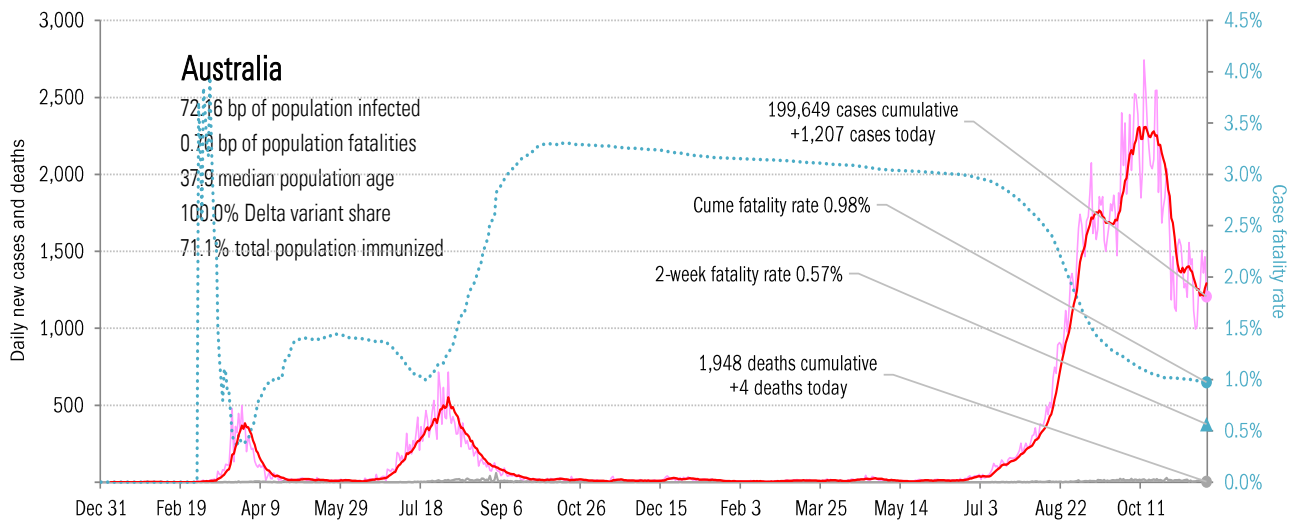
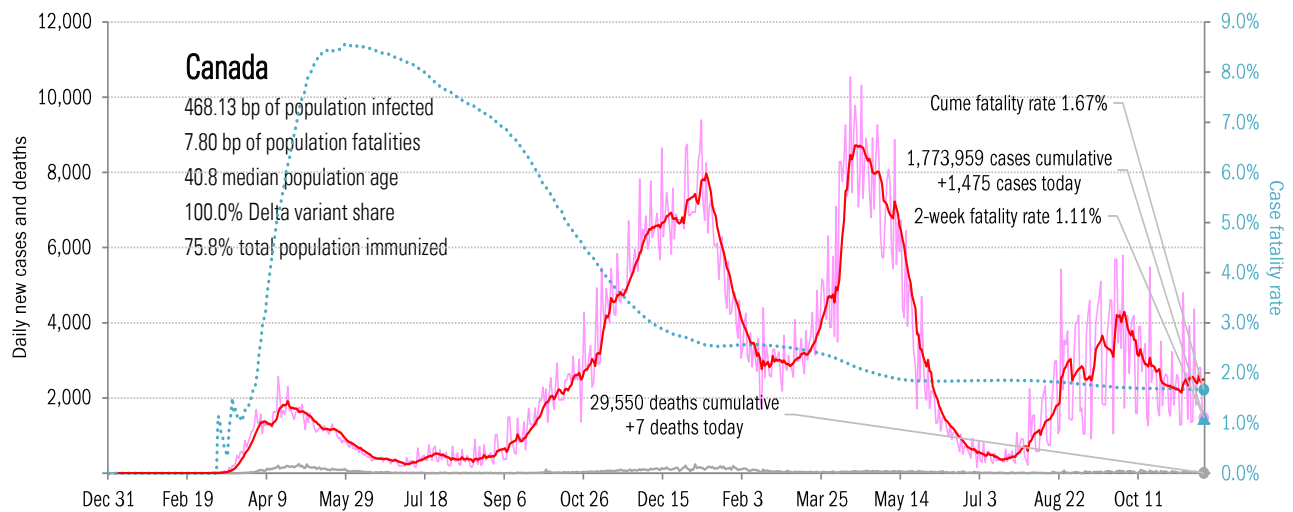
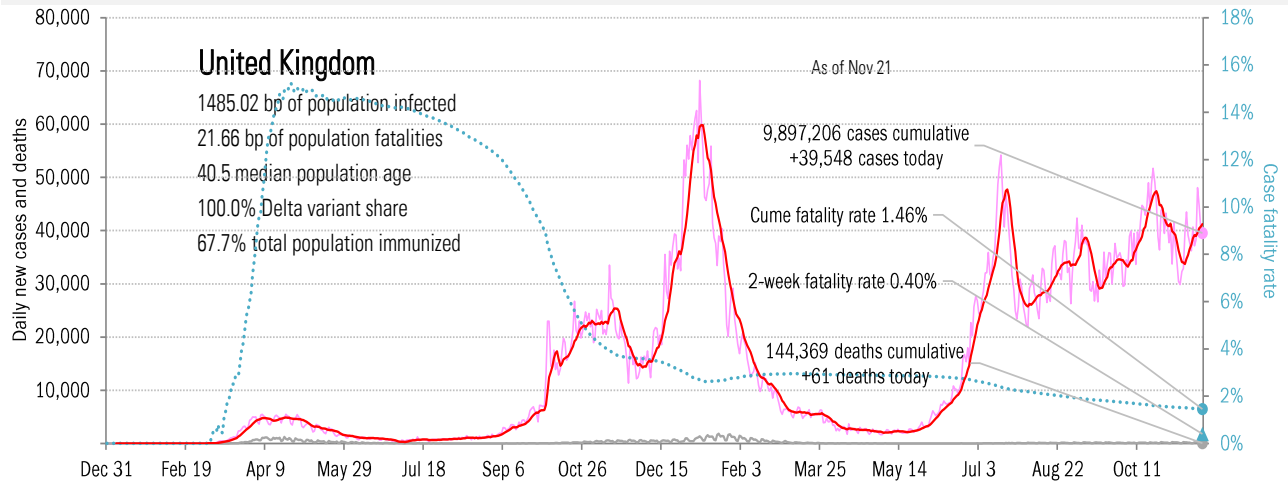
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

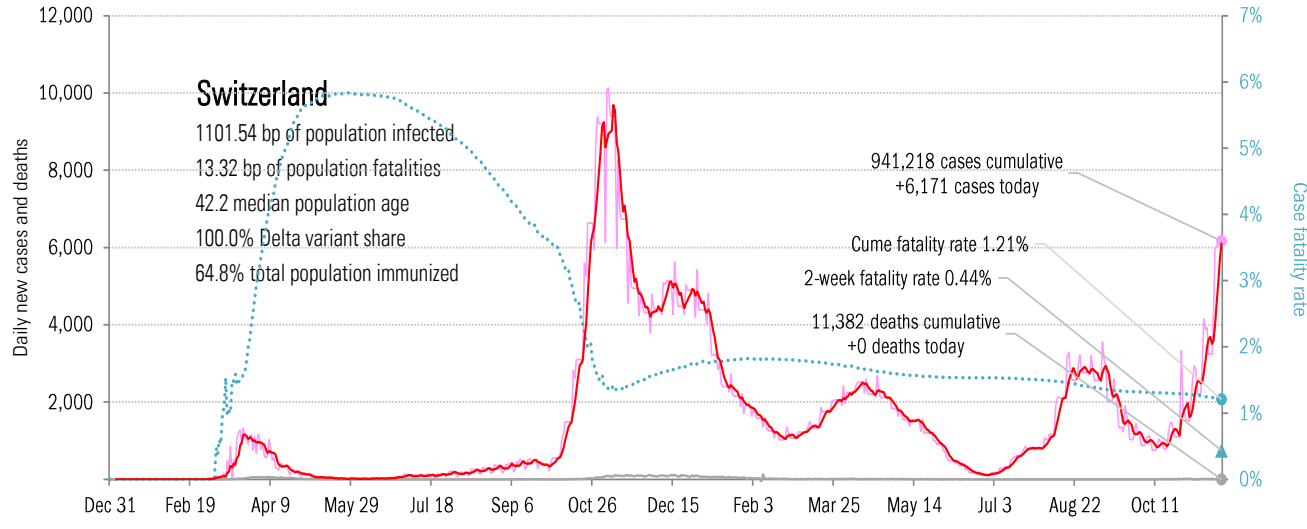
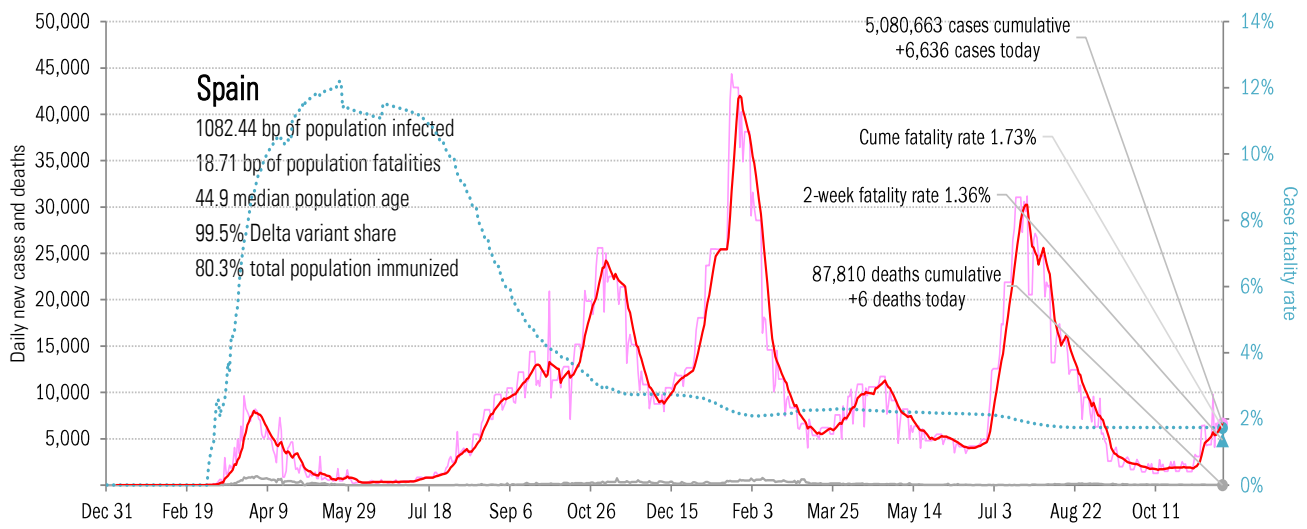
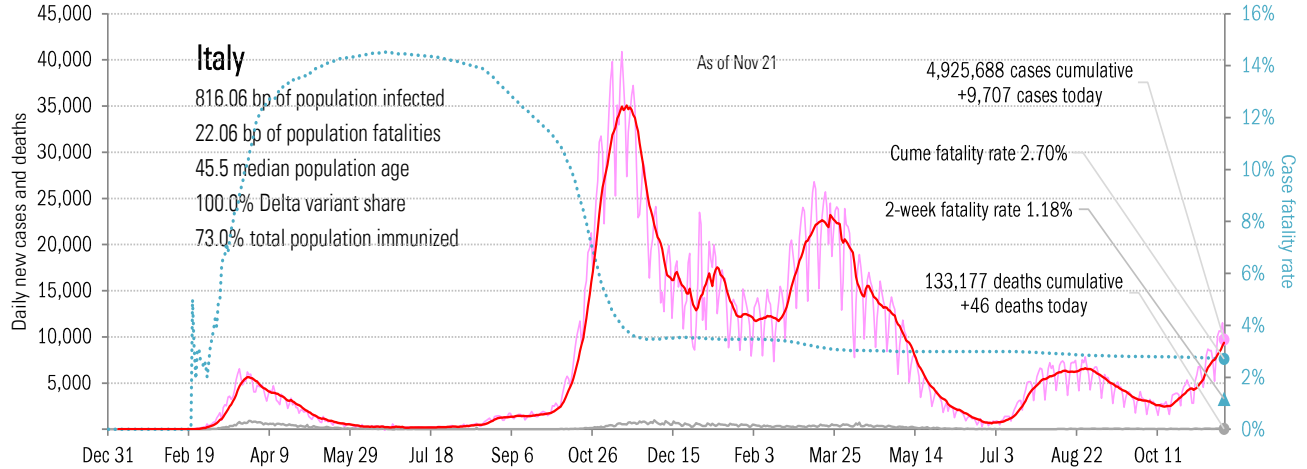
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

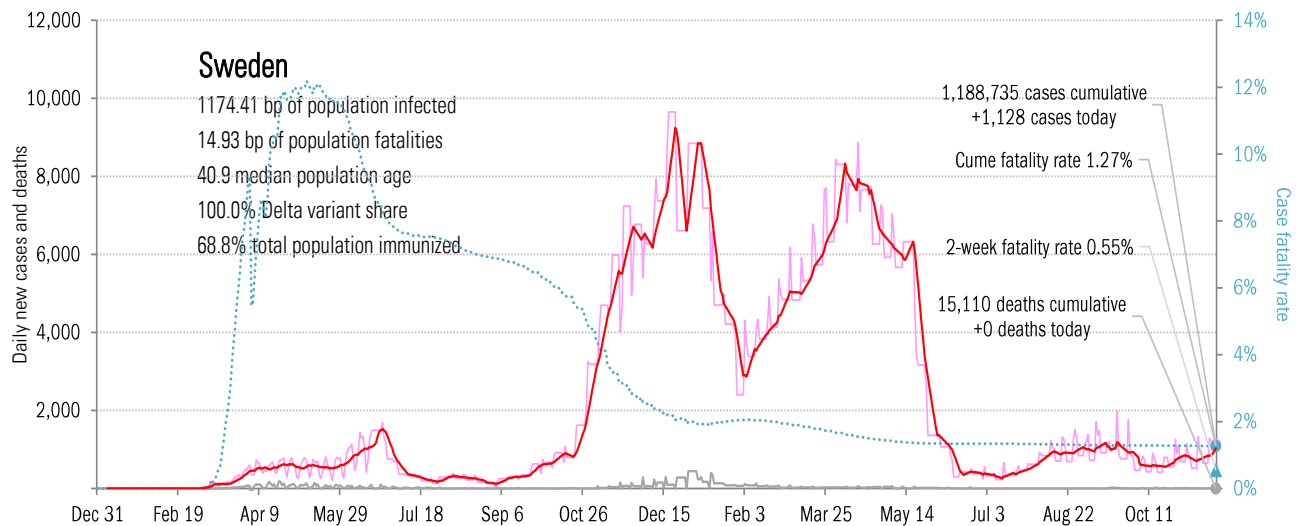
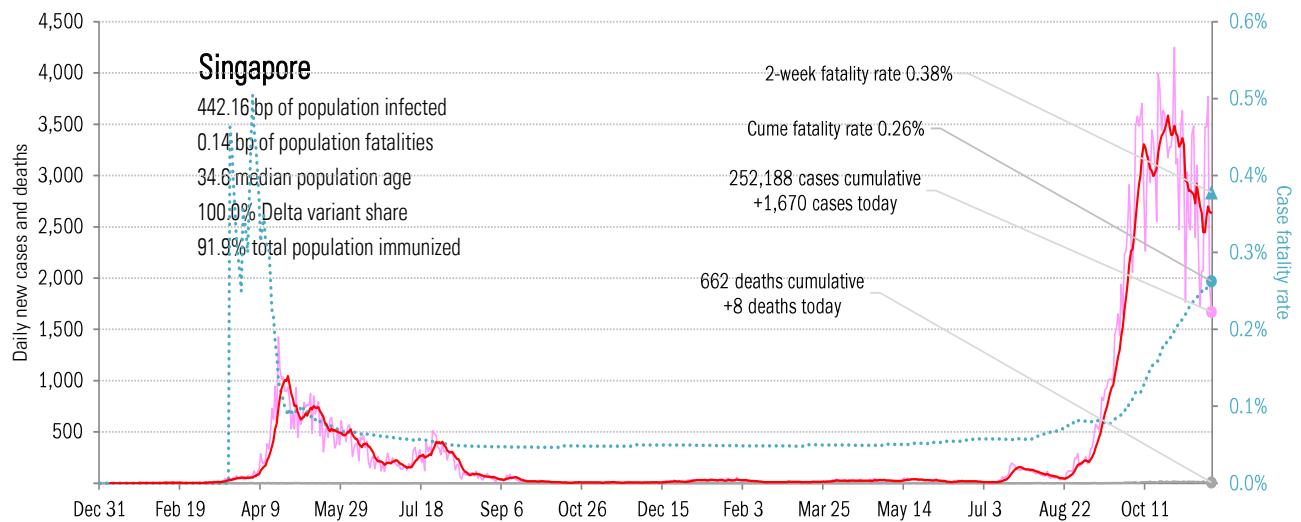
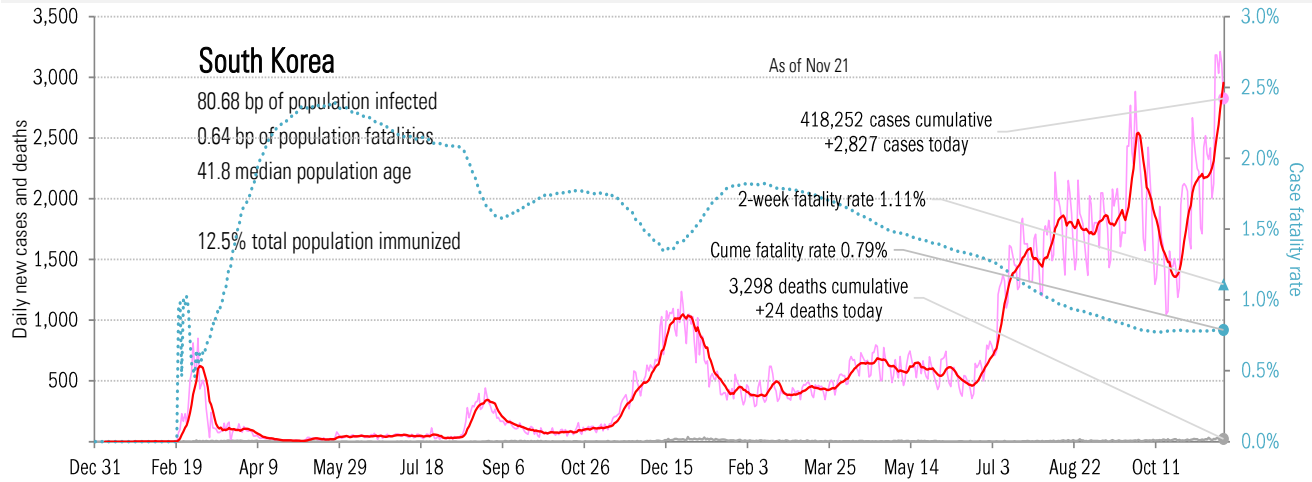
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

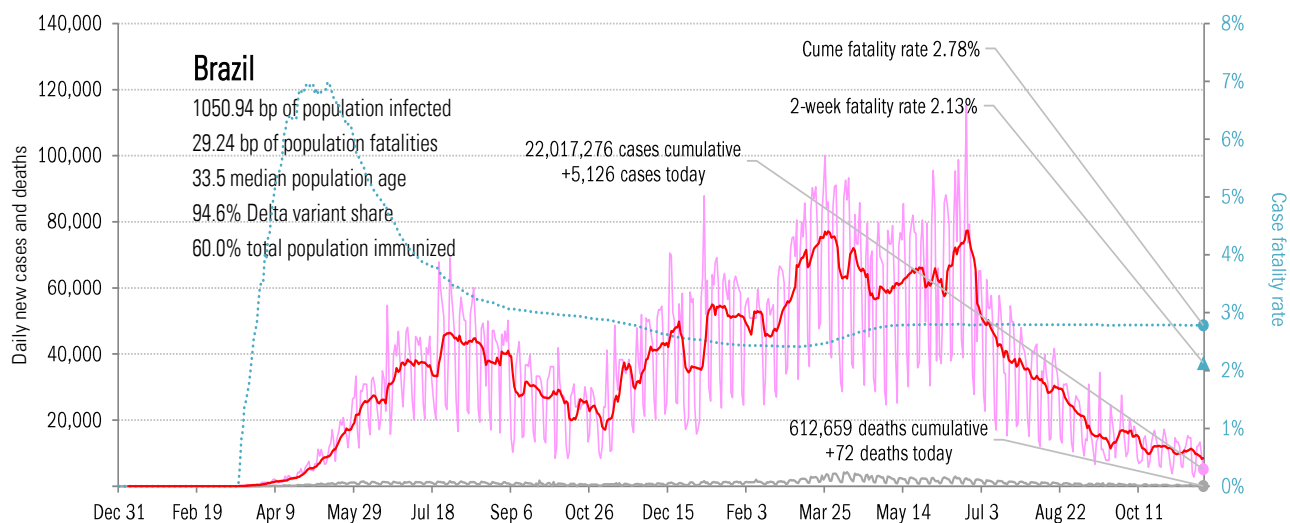
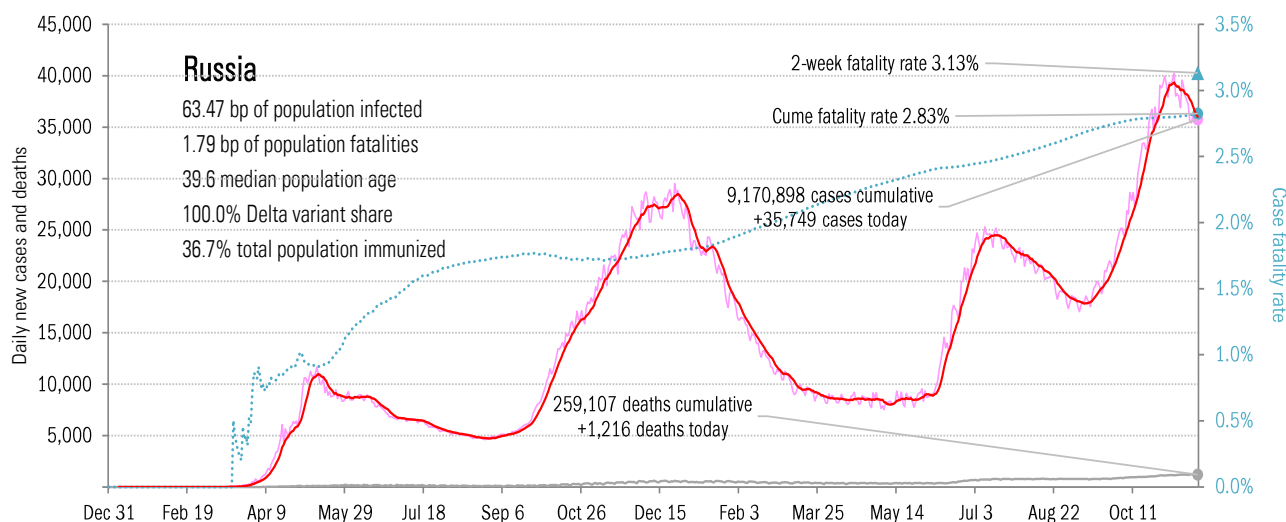
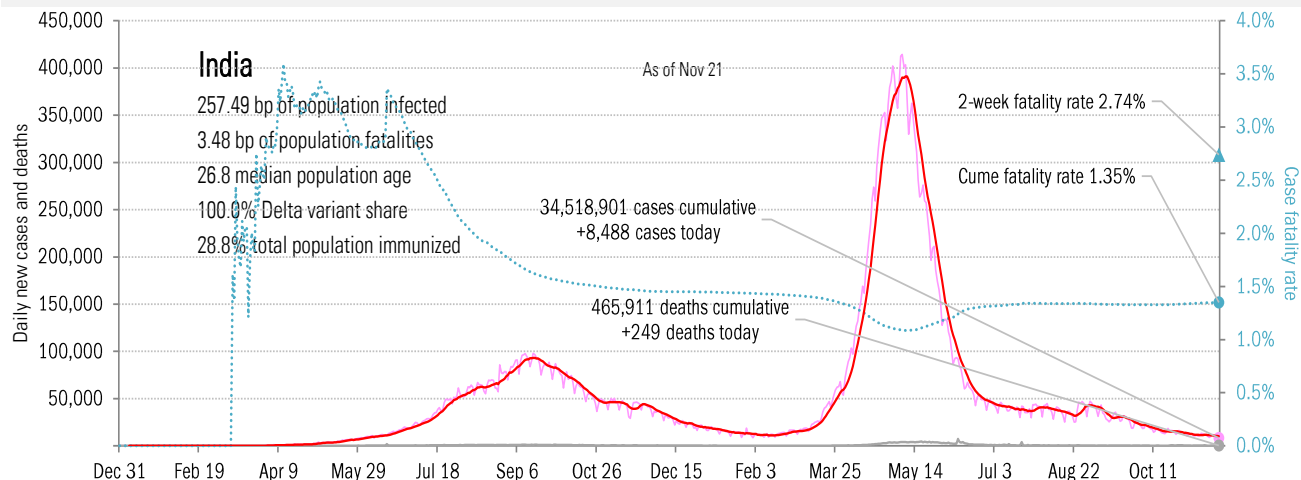
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

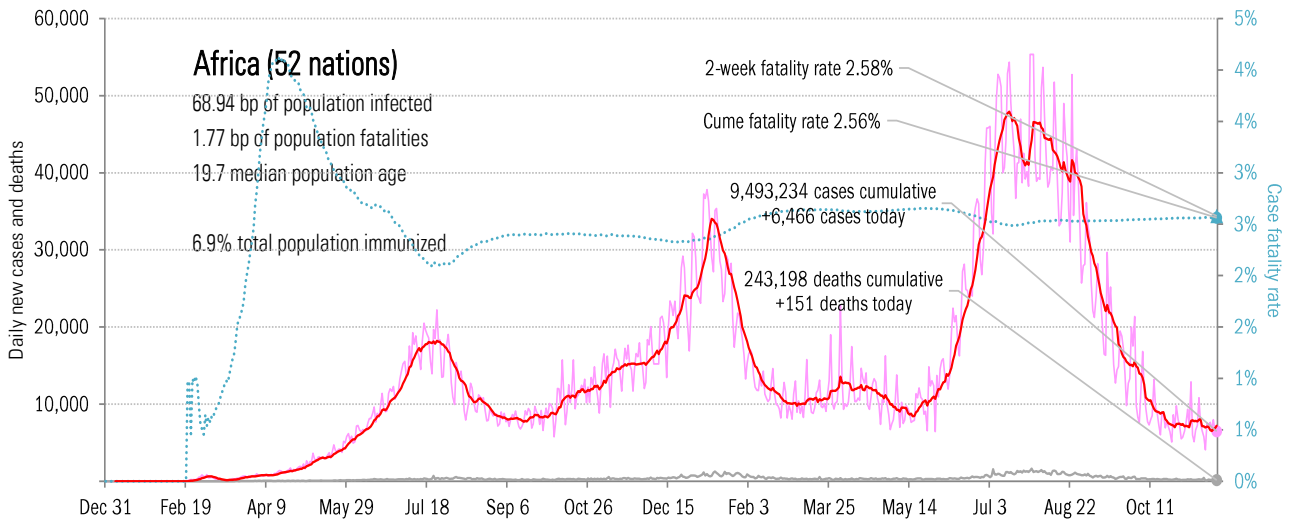
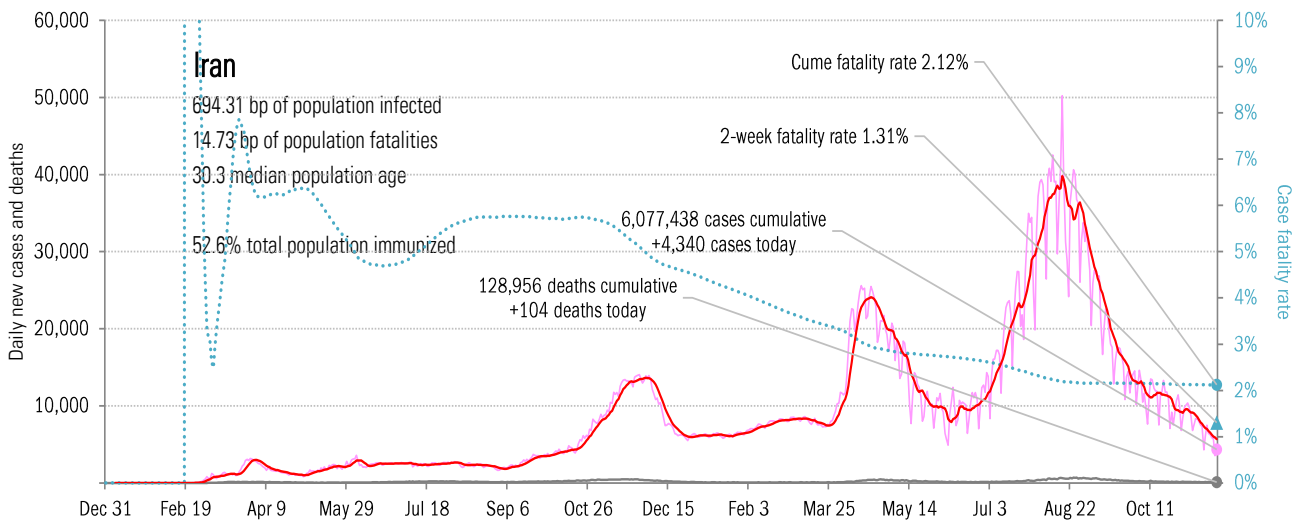
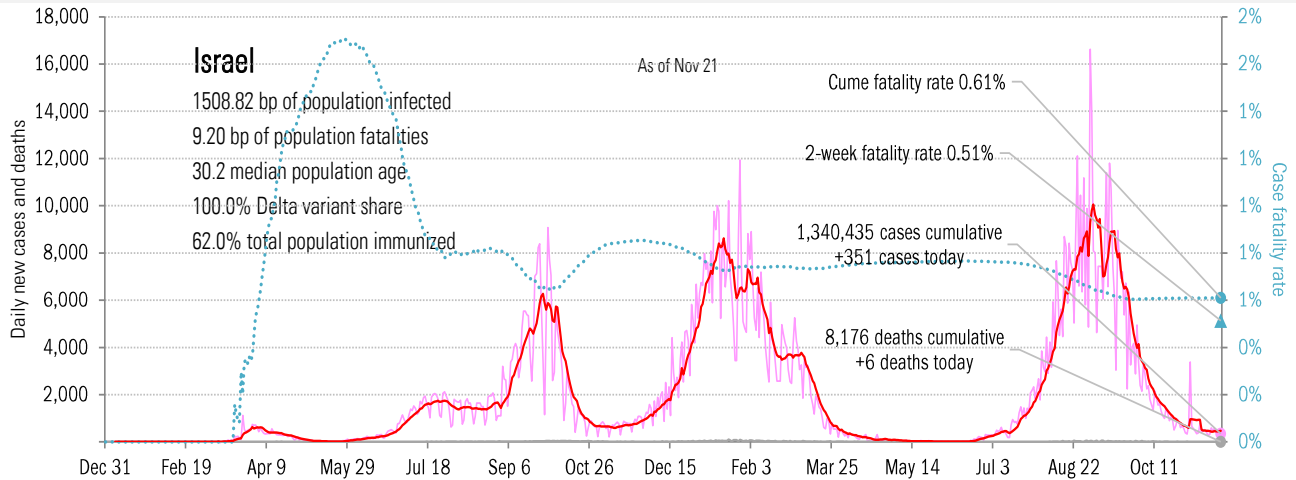
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

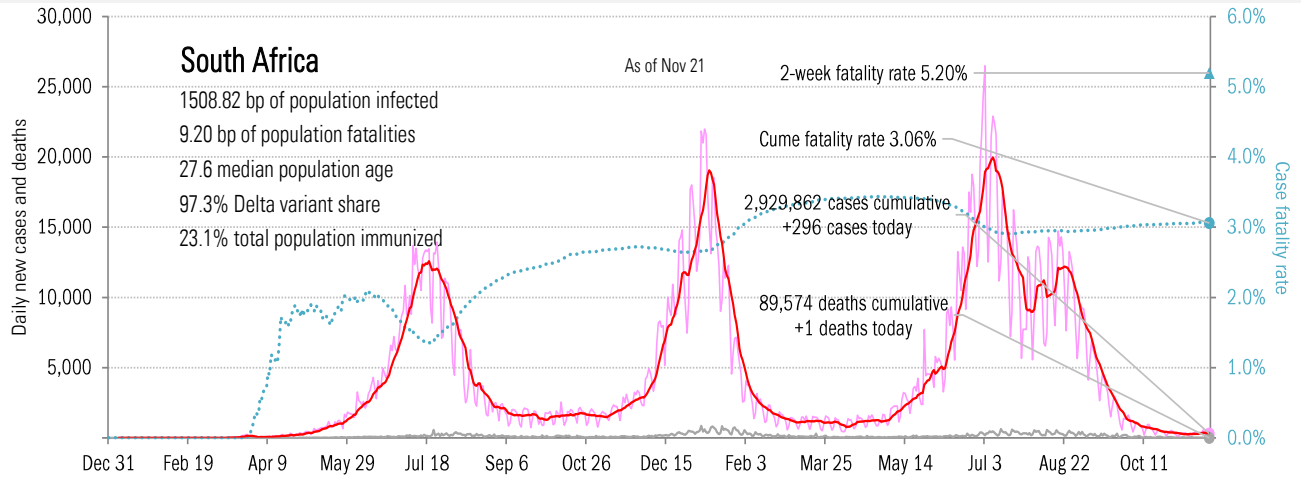
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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