

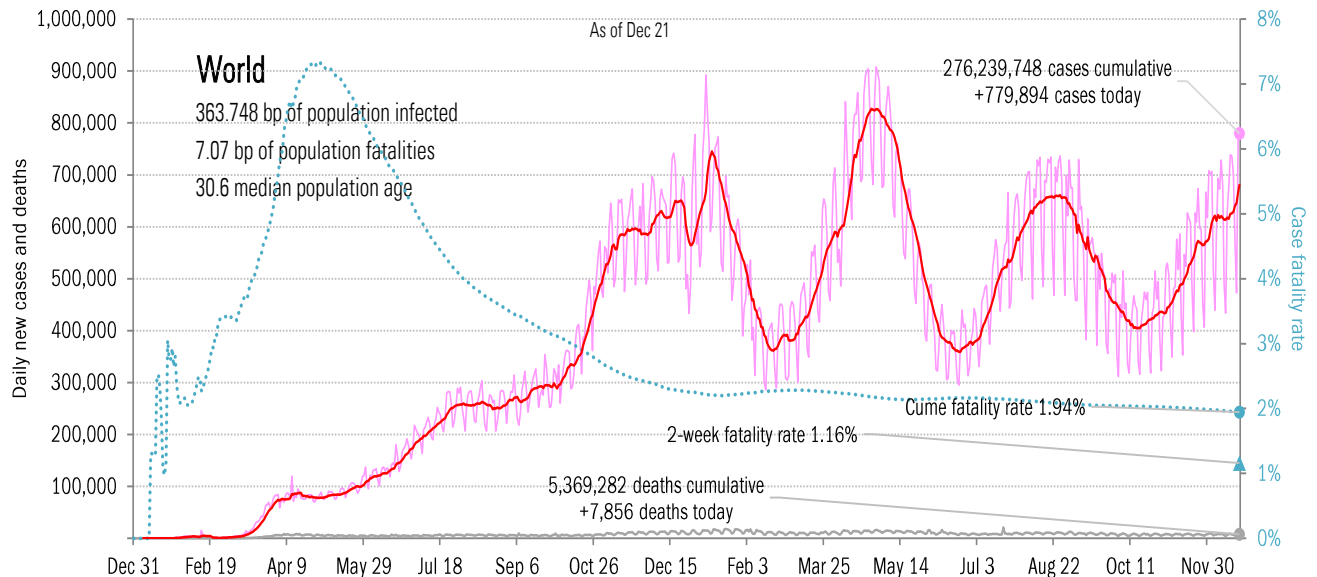
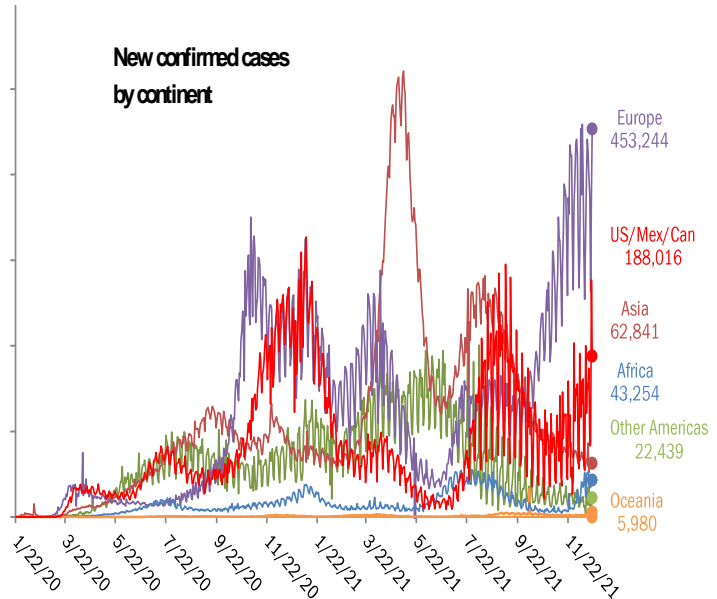
Data Insights: Covid-2019 Monitor

Wednesday, December 22, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

| The worst ten countries | | | |
|-------------------------|----------|----------------|--------|
| New cases | | New Deaths | |
| United States | +176,192 | United States | +2,120 |
| United Kingdom | +89,609 | Russia | +998 |
| France | +72,882 | Poland | +538 |
| Germany | +64,949 | Germany | +510 |
| Spain | +49,823 | Ukraine | +375 |
| Italy | +30,783 | India | +318 |
| Russia | +25,655 | Vietnam | +250 |
| Turkey | +19,859 | France | +229 |
| Vietnam | +16,325 | Turkey | +187 |
| South Africa | +15,423 | United Kingdom | +173 |
| +561,500 | | +5,698 | |
| World | +779,894 | World | +7,856 |
| Top ten | 72% | Top ten | 73% |



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

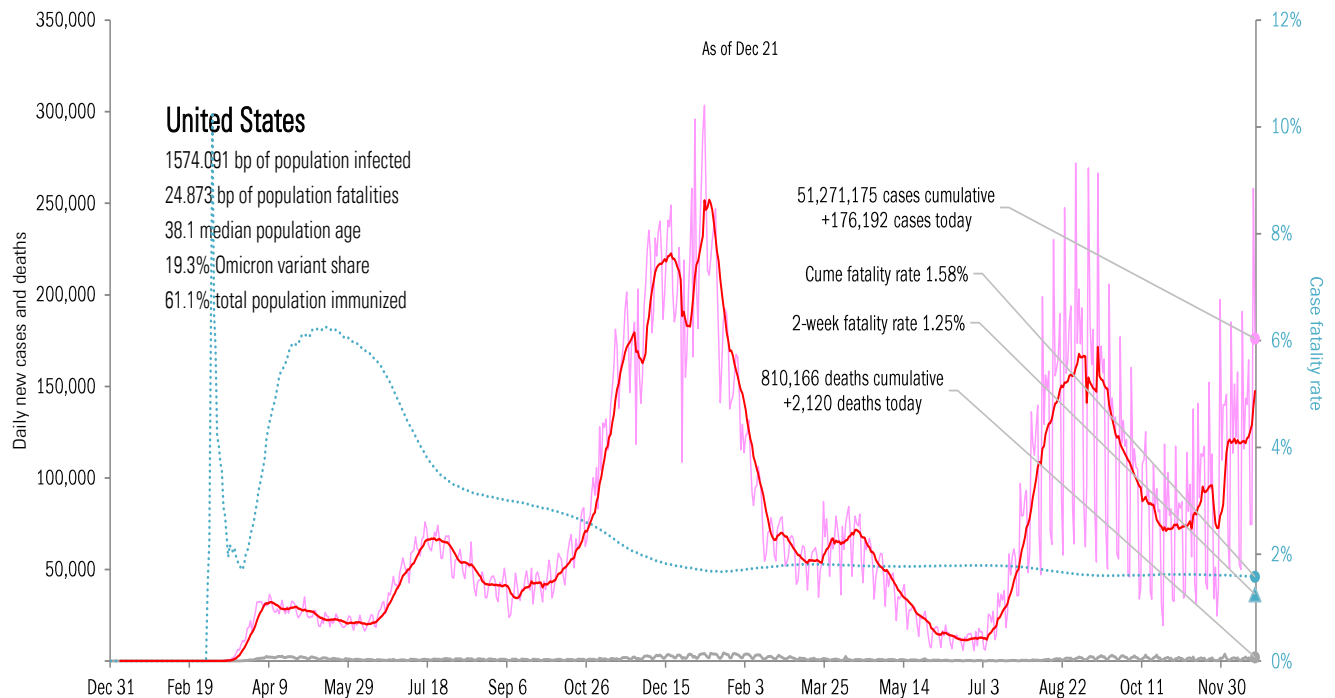
The ten worst US states

| New cases | | | New Deaths | | | New in hospital | | | Cum cases | | | Cum deaths | | | Cum in hospital | | | Hospital use | | ICU use | |
|------------|----------|--|------------|------|--|-----------------|------|--|------------|------------|--|------------|--------|--|-----------------|---------|--|--------------|-----|---------|-----|
| NY | +24,237 | | CH | +249 | | GA | +121 | | CA | 5,237,078 | | CA | 75,878 | | TX | 392,913 | | PA | 85% | NM | 90% |
| CH | +12,502 | | AZ | +223 | | NY | +72 | | TX | 4,453,516 | | TX | 75,156 | | CA | 328,366 | | RI | 85% | NE | 88% |
| TX | +11,112 | | PA | +197 | | FL | +25 | | FL | 3,781,204 | | FL | 62,385 | | FL | 328,079 | | MA | 84% | KY | 88% |
| CA | +10,895 | | IN | +119 | | TX | +21 | | NY | 3,007,231 | | NY | 58,725 | | NY | 182,784 | | GA | 83% | AL | 87% |
| IL | +10,264 | | MO | +105 | | NJ | +20 | | IL | 1,985,779 | | PA | 35,615 | | GA | 166,487 | | MI | 82% | MI | 86% |
| PA | +9,607 | | TN | +91 | | LA | +16 | | PA | 1,904,121 | | GA | 31,079 | | CH | 147,803 | | MD | 82% | RI | 86% |
| NJ | +8,494 | | WI | +88 | | DC | +9 | | CH | 1,867,724 | | IL | 29,724 | | PA | 137,579 | | AZ | 82% | MO | 86% |
| MN | +7,383 | | CO | +86 | | NV | +7 | | GA | 1,706,483 | | NJ | 28,762 | | IL | 119,625 | | CT | 80% | DE | 86% |
| MA | +6,447 | | NY | +76 | | TN | +6 | | MI | 1,629,362 | | CH | 28,277 | | KY | 118,311 | | WA | 80% | PA | 85% |
| CT | +6,000 | | IL | +63 | | HI | +4 | | NC | 1,602,489 | | MI | 27,901 | | MI | 113,344 | | MO | 80% | OK | 85% |
| +106,941 | | | +1,297 | | | +301 | | | 27,174,987 | | | 453,502 | | | 2,035,291 | | | | | | |
| All states | +176,192 | | +2,120 | | | -842 | | | All states | 51,271,175 | | 810,166 | | | 3,676,113 | | | All states | 70% | 67% | |
| Top ten | 61% | | 61% | | | -36% | | | Top ten | 53% | | 56% | | | 55% | | | Median | 75% | 77% | |

Some states not reporting

Five most improved US states

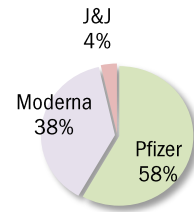
| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | | Most pop immunity growth | |
|-------------------|---------|------------------|------|----------------------------|------|--------------------------|--------|
| IL | -21,195 | MI | -162 | MO | -109 | PA | +20 bp |
| MI | -15,221 | FL | -111 | MI | -87 | MP | +20 bp |
| CA | -8,332 | KY | -58 | CH | -77 | AR | +10 bp |
| MA | -7,765 | OK | -58 | PA | -60 | MO | +10 bp |
| NC | -7,647 | IL | -48 | OK | -56 | CH | +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 | 510,475,376 | +1.137 million | US | 61.1% | 72.6% |
| Boosters | 63,176,702 | +1.398 million | UK | 69.1% | 75.6% |
| | One dose | % Pop | Immune | % pop | New immune today |
| Total population | 247,089,284 | 74% | 209,705,289 | 63% | +0.479 million |
| Age 12 to 17 | 15,011,660 | 63% | 12,652,129 | 53% | +0.033 million |
| Age 18 to 64 | 167,296,913 | 82% | 142,864,847 | 70% | +0.265 million |
| Age 65 and over | 57,618,198 | 100% | 49,679,592 | 91% | +0.113 million |



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



Every American >18 immunized in **41 days** by Jan 30, 2022
 74.4% of population >18 immunized
 18.0% previously tested positive
92.4% vs 60% adult herd immunity

| | | |
|-----------|-------|-------|
| France | 72.3% | 77.8% |
| Spain | 80.9% | 83.7% |
| Germany | 69.8% | 72.8% |
| Italy | 73.7% | 79.5% |
| Australia | 76.1% | 79.0% |
| Israel | 63.0% | 69.7% |
| Canada | 77.0% | 82.9% |
| Japan | 78.1% | 79.5% |
| Africa | 8.6% | 13.3% |
| India | 40.0% | 59.7% |
| Brazil | 66.3% | 77.4% |
| China | 82.6% | 84.8% |

Global data differs due to sources, timing

| AK |
|-------|
| 64.6% |
| 56.0% |

| WI |
|-------|
| 67.6% |
| 61.5% |

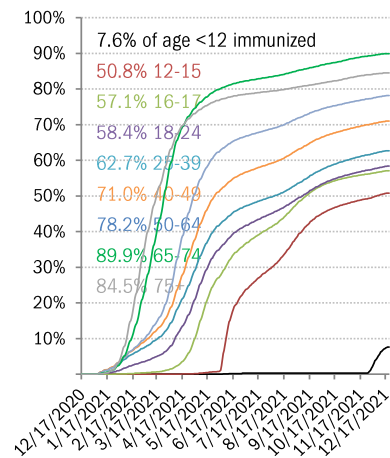
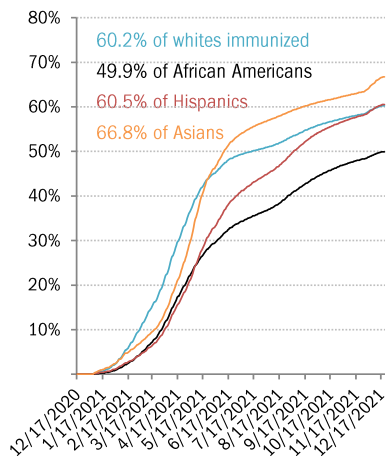
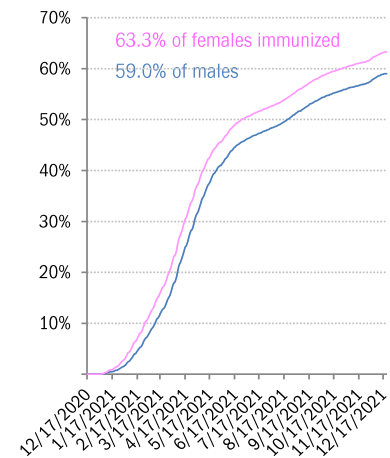
As of Dec 21

| ME |
|-------|
| 84.9% |
| 75.3% |

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| WA | ID | MT | ND | MN | IL | MI | NY | VT | NH | |
| 75.0% | 51.8% | 61.6% | 61.7% | 70.9% | 71.7% | 62.9% | 82.4% | 88.3% | 95.0% | |
| 67.4% | 46.0% | 53.7% | 52.1% | 65.0% | 63.9% | 56.4% | 71.1% | 76.7% | 66.4% | |
| OR | NV | WY | SD | IA | IN | OH | PA | NJ | MA | |
| 73.4% | 68.7% | 55.3% | 69.9% | 64.3% | 57.4% | 60.0% | 76.9% | 82.5% | 89.4% | |
| 66.1% | 56.0% | 47.1% | 56.5% | 58.5% | 51.7% | 54.9% | 63.3% | 70.0% | 74.0% | |
| CA | UT | CO | NE | MO | KY | WV | VA | MD | CT | RI |
| 81.7% | 66.6% | 73.8% | 65.8% | 61.8% | 61.9% | 89.7% | 78.1% | 79.5% | 87.4% | 87.4% |
| 65.5% | 58.0% | 65.7% | 59.4% | 52.7% | 53.8% | 71.6% | 67.5% | 69.9% | 74.2% | 75.8% |
| AZ | NM | KS | AR | TN | NC | SC | DC | DE | | |
| 66.5% | 79.7% | 68.5% | 62.1% | 58.3% | 74.6% | 62.1% | 86.7% | 75.6% | | |
| 56.5% | 65.7% | 56.5% | 50.8% | 51.0% | 56.2% | 52.7% | 66.9% | 63.5% | | |
| OK | LA | MS | AL | GA | | | | | | |
| 65.2% | 56.9% | 55.2% | 58.0% | 60.5% | | | | | | |
| 53.1% | 49.9% | 48.0% | 47.2% | 50.6% | | | | | | |
| TX | FL | PR | | | | | | | | |
| 66.1% | 73.8% | 88.0% | | | | | | | | |
| 56.5% | 62.9% | 76.5% | | | | | | | | |

| HI |
|-------|
| 85.3% |
| 62.9% |

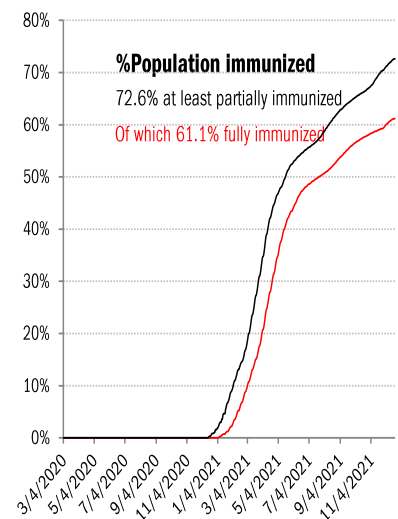
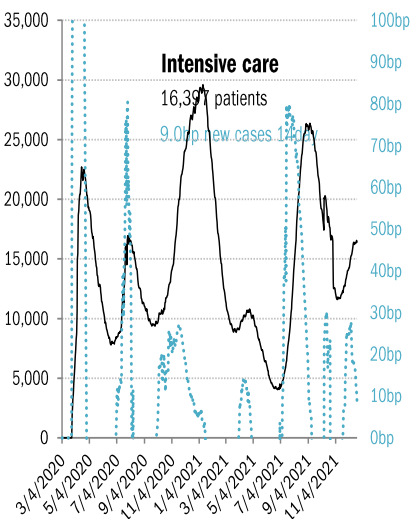
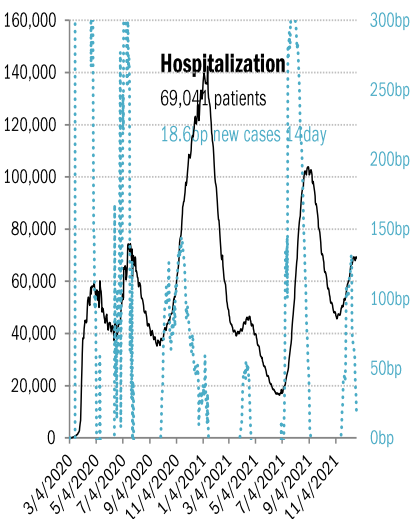
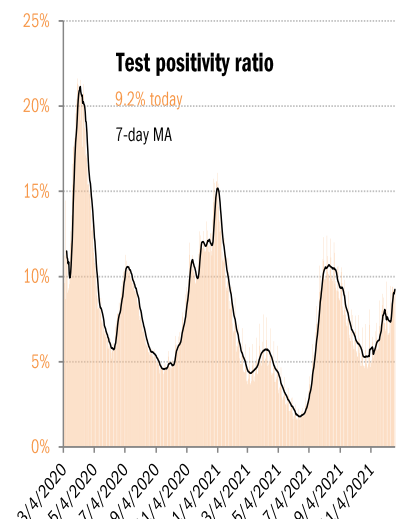
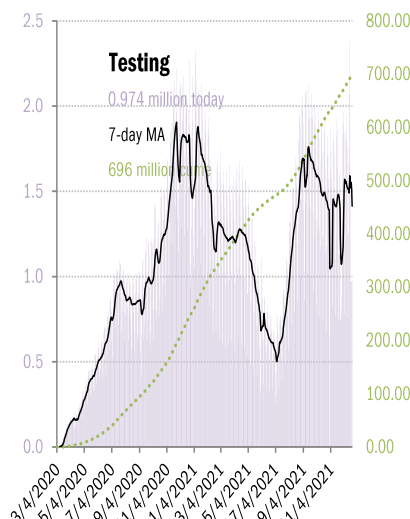
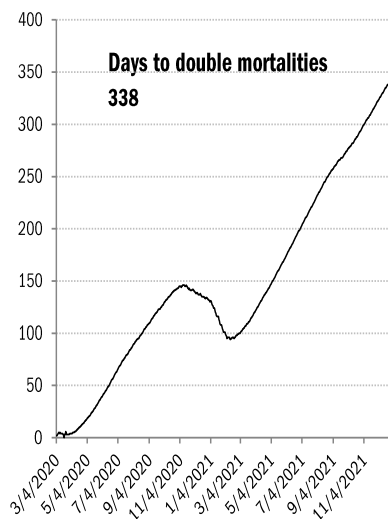
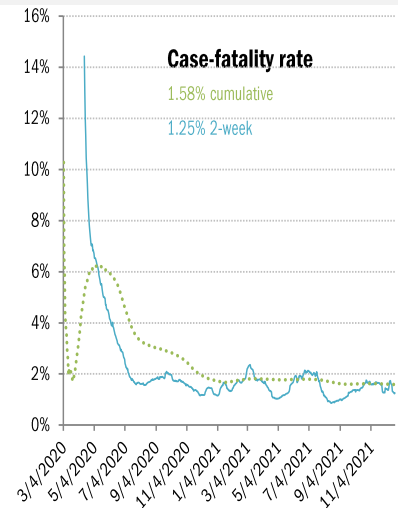
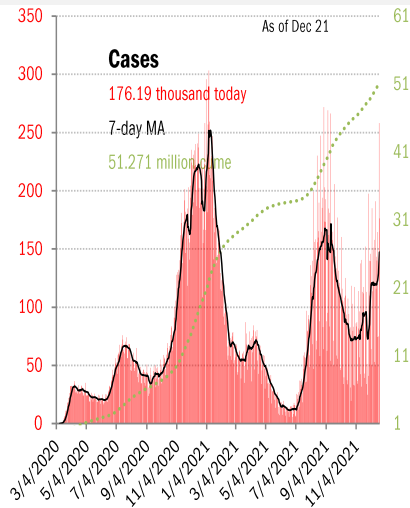
The demographics of US vaccination



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

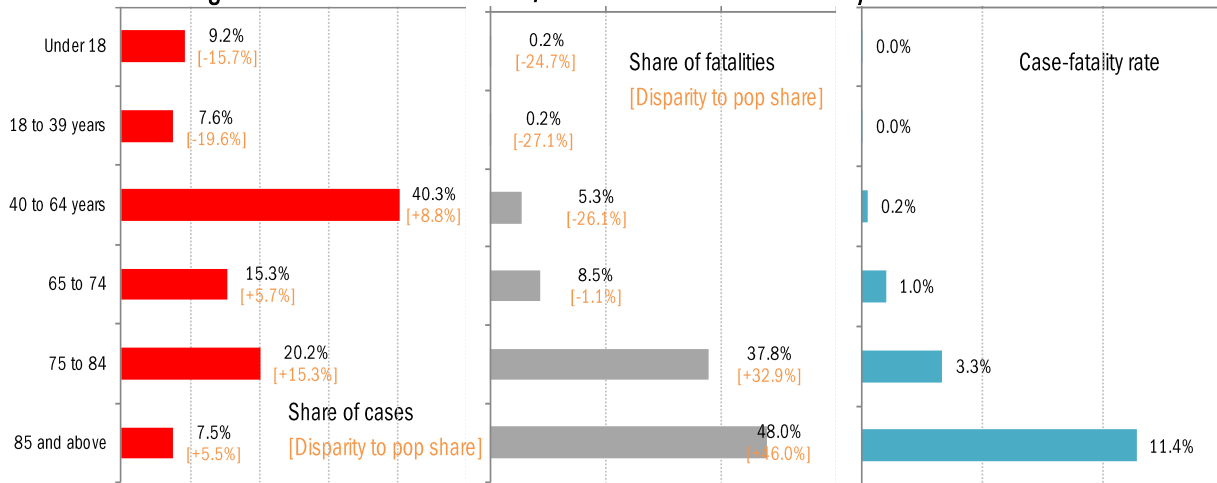
US deep-dive

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

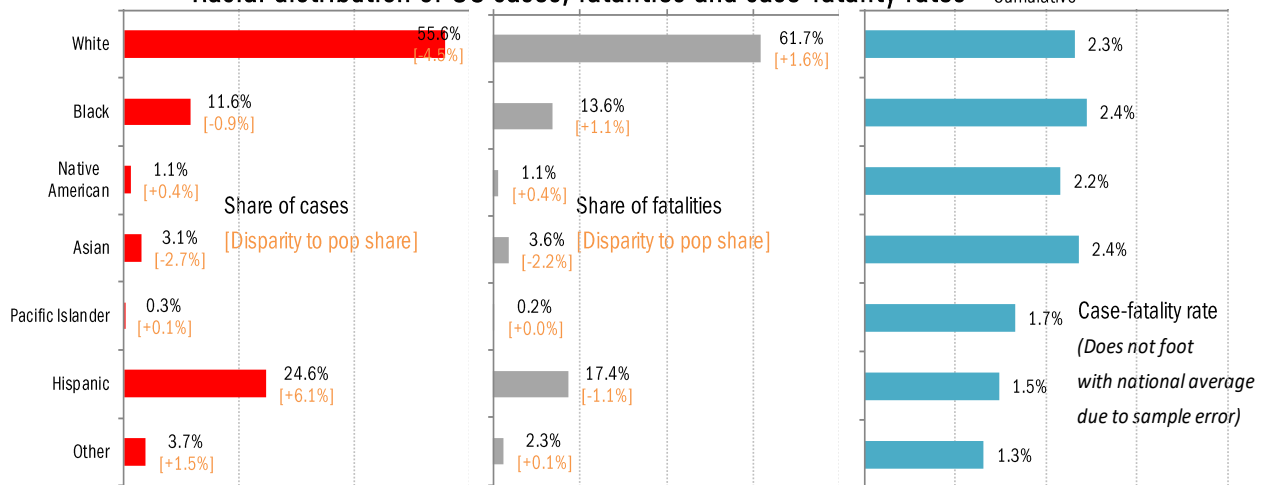


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

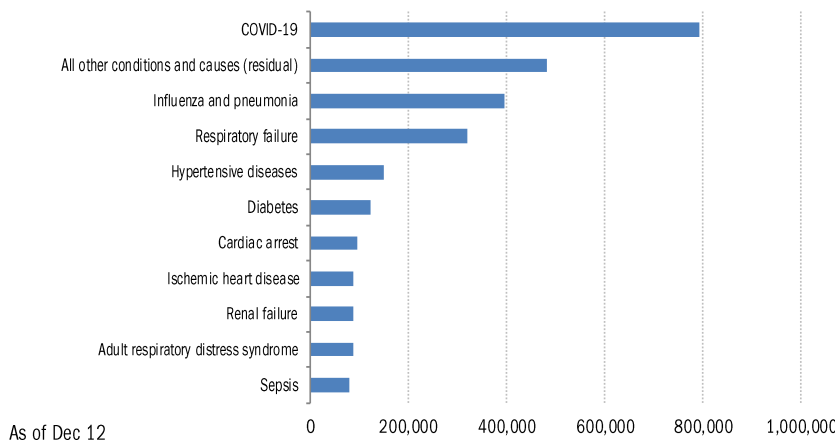


Racial distribution of US cases, fatalities and case-fatality rates



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

[An unvaccinated Texas man's death may be the first in the U.S. attributed to Omicron.](#)

Adeel Hassan
New York Times
December 21, 2021

[Companies Get Covid-19 Vaccine Mandate Reprieve as Legal Battle Continues](#)

David Harrison
Wall Street Journal
December 20, 2021

[How Fauci and Collins Shut Down Covid Debate](#)

Wall Street Journal
December 21, 2021

[FACT SHEET: President Biden Announces New Actions to Protect Americans and Help Communities and Hospitals Battle Omicron](#)

The White House
December 21, 2021

[The Dangerous Push to Give Boosters to Teens](#)

Marty Makary
Wall Street Journal
December 21, 2021

[COVID Spin-Ops: Government Failures Buried, Government Actions Hyped](#)

James Anthony
American Greatness

[Did Dismissals of Safe Outpatient Drugs Cause Needless Covid Deaths? Dissenting Doctors Say Yes](#)

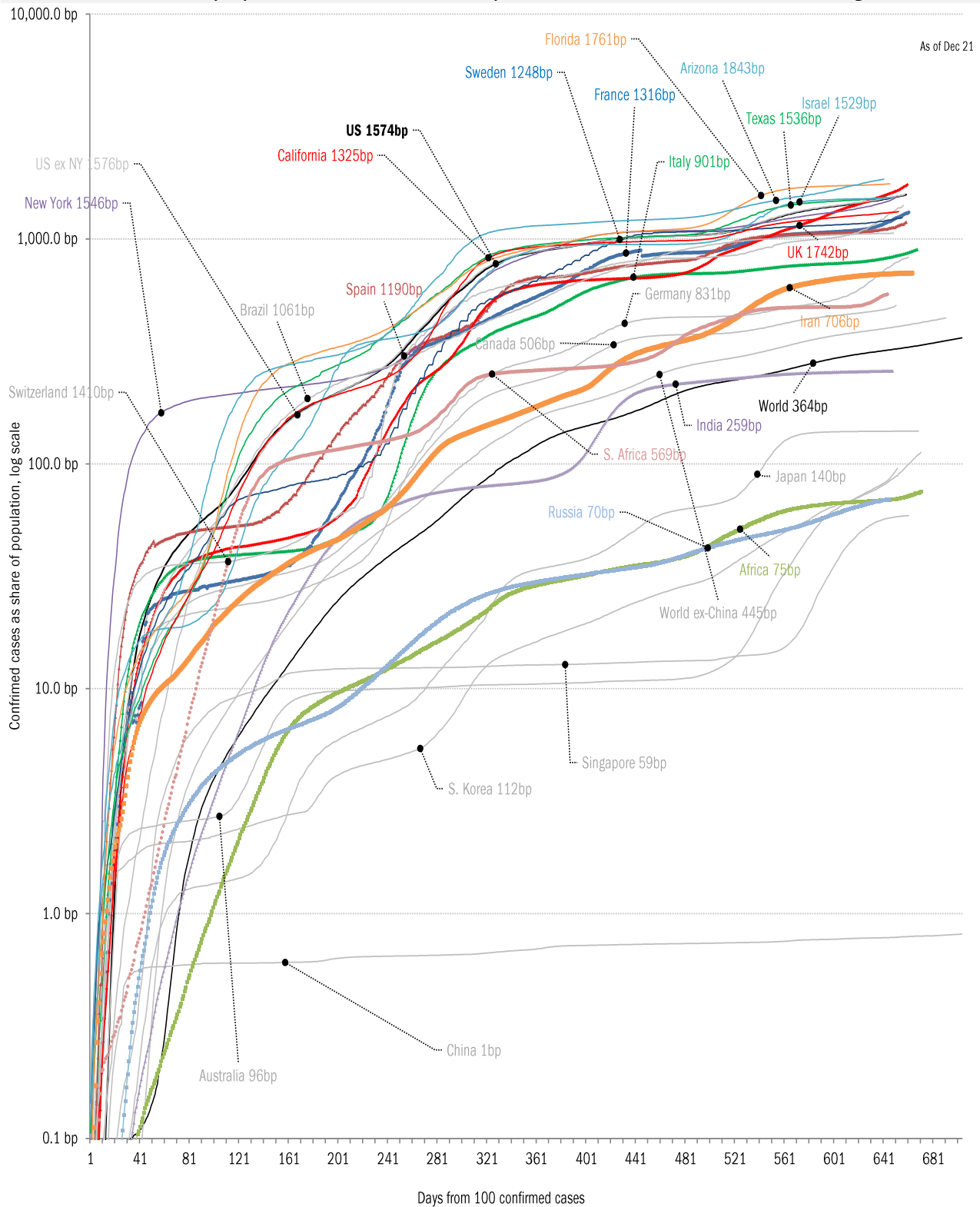
Clayton Fox
Real Clear Investigations
December 21, 2021

Meme of the day



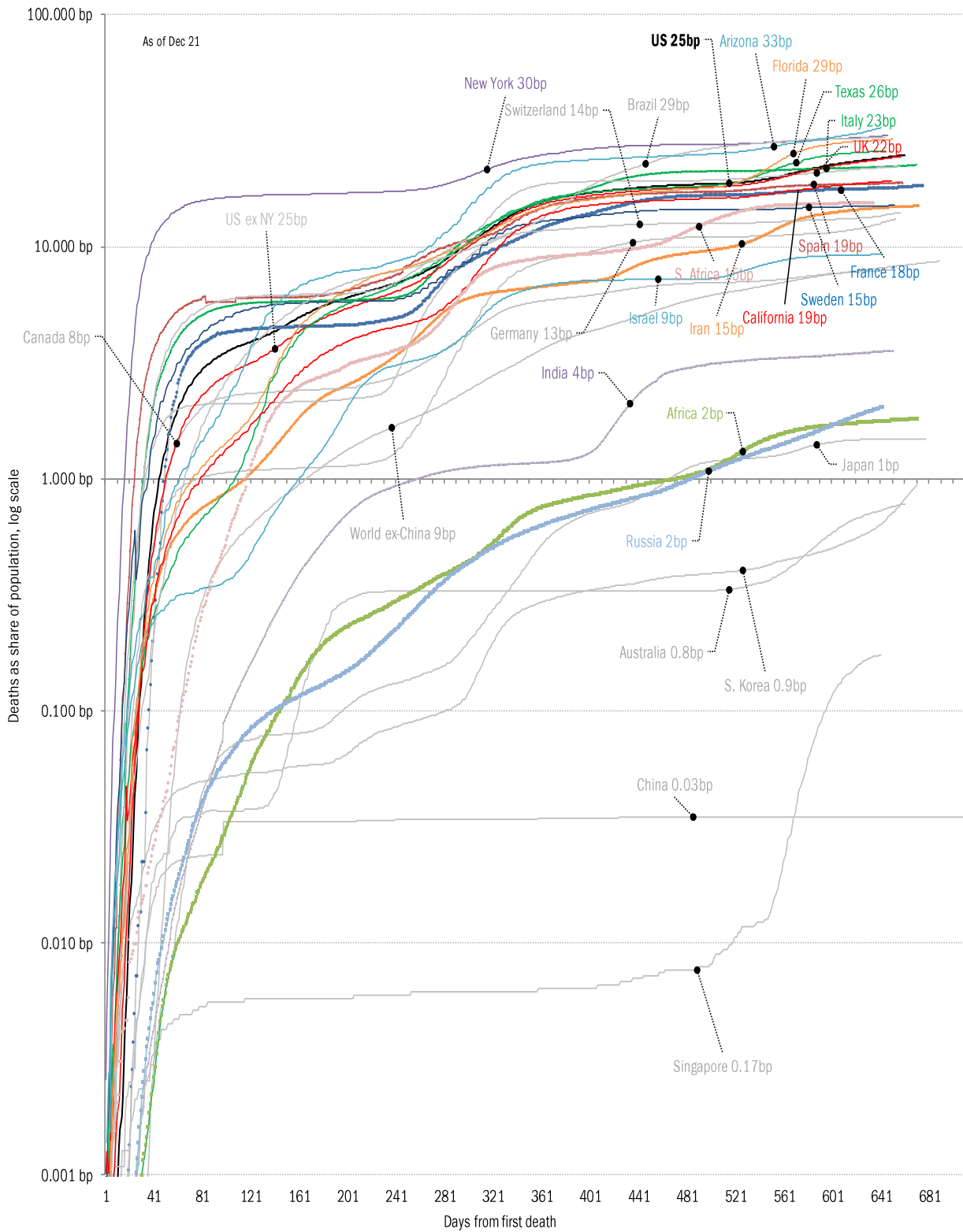
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

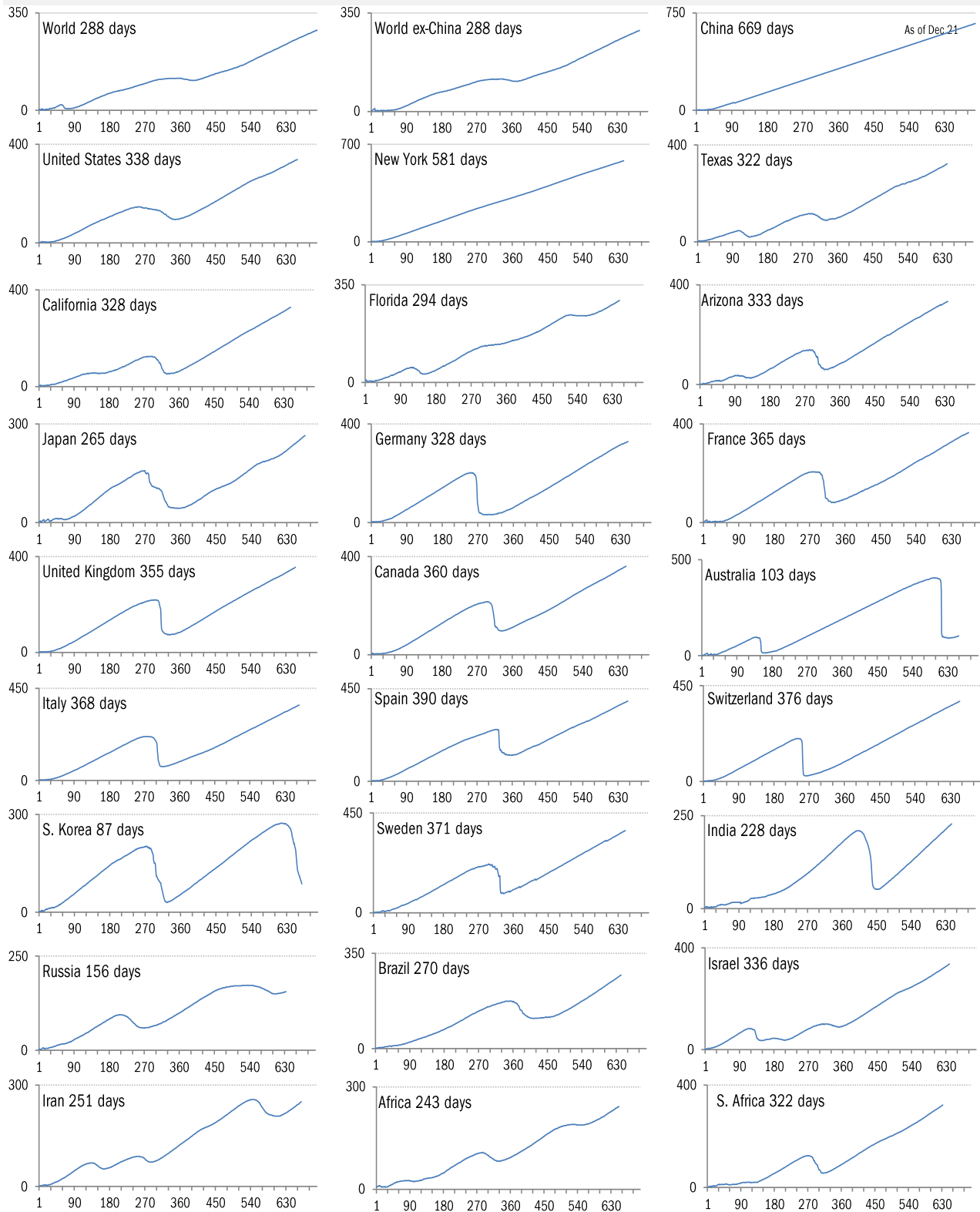


Source: [Johns Hopkins](#), TrendMacro calculations

"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

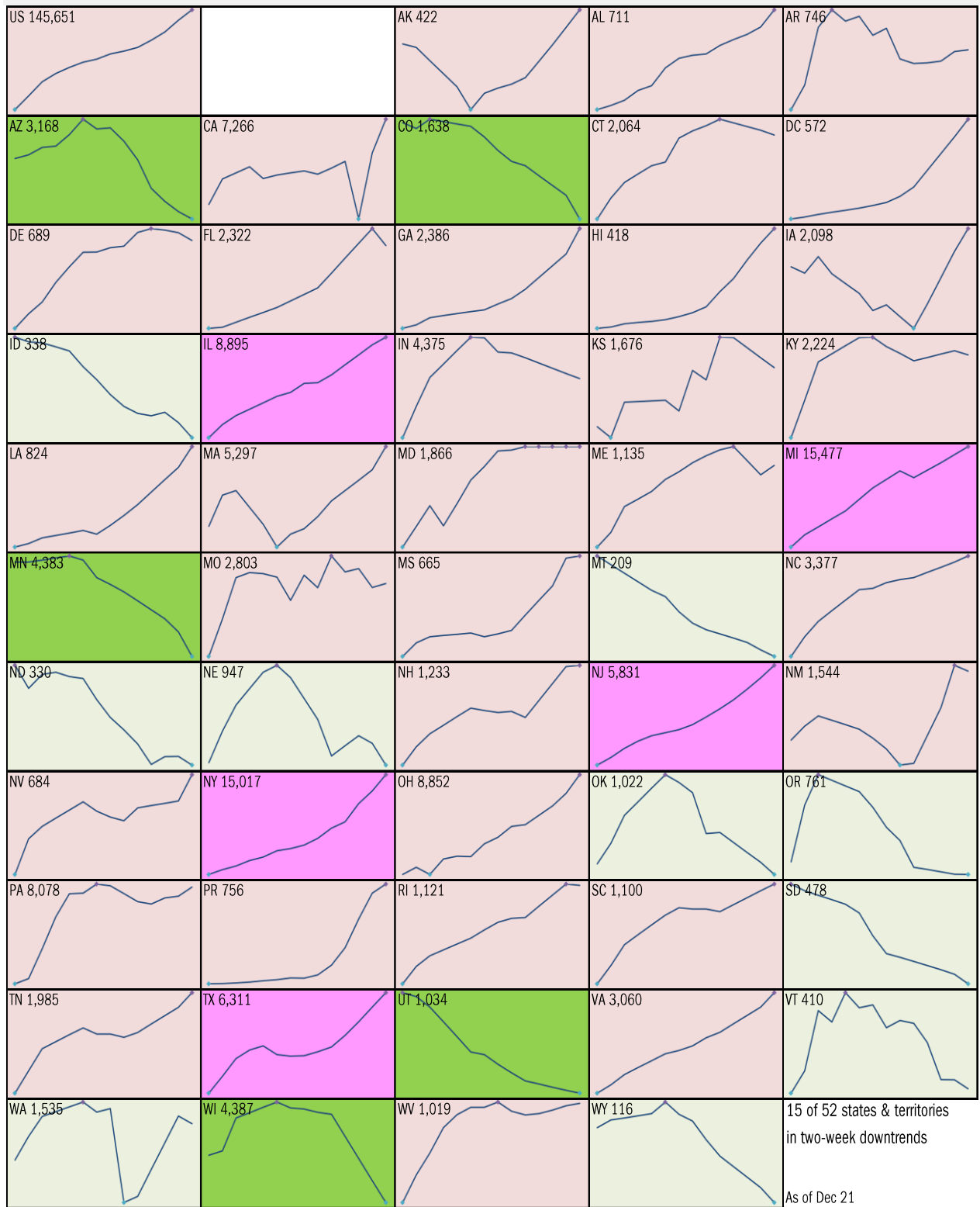


Source: [Johns Hopkins](#), TrendMacro calculations

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

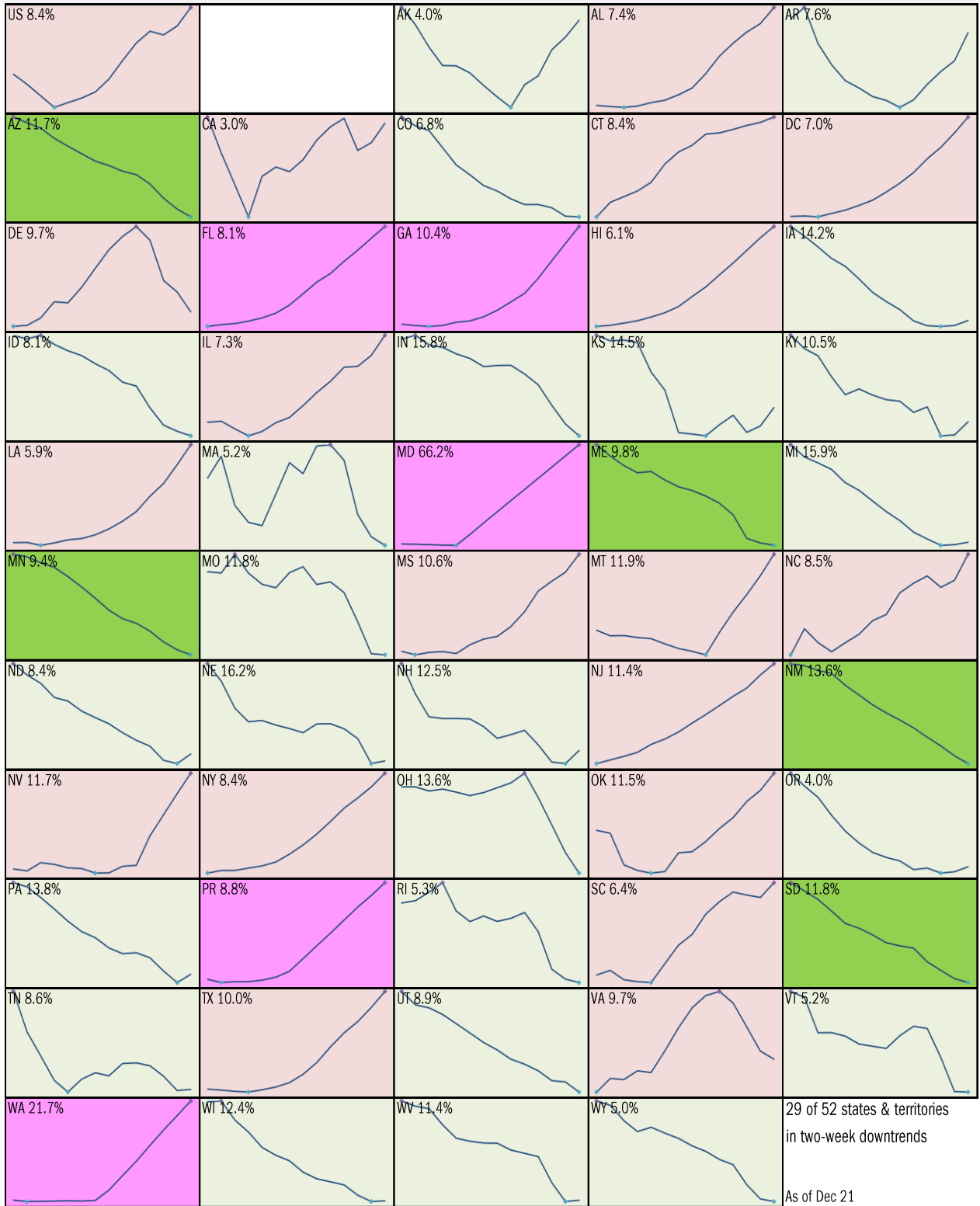


Source: [Johns Hopkins](#), TrendMacro calculations

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

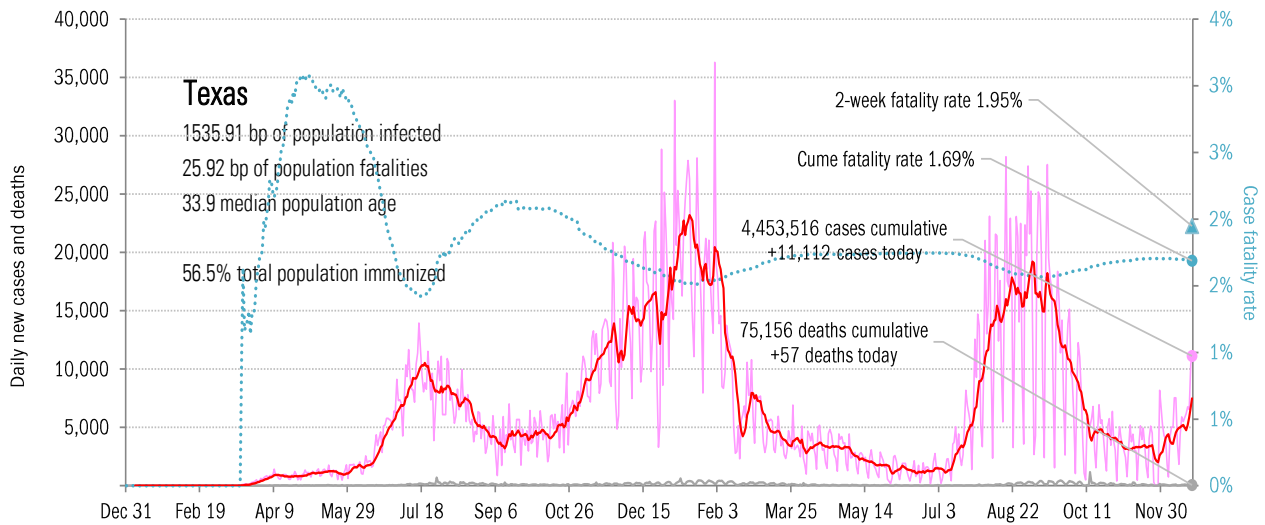
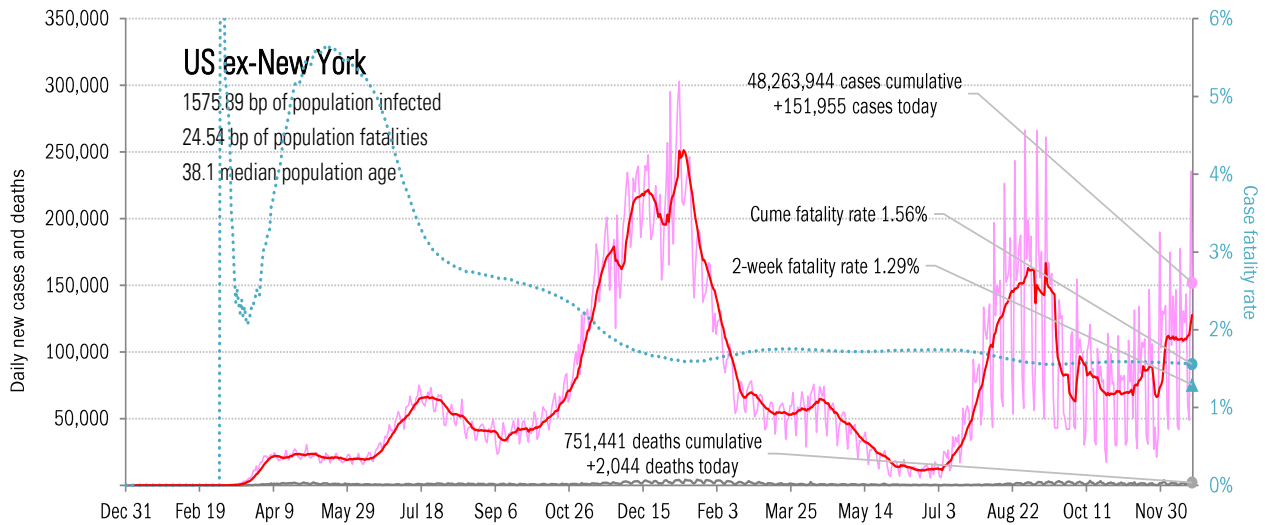
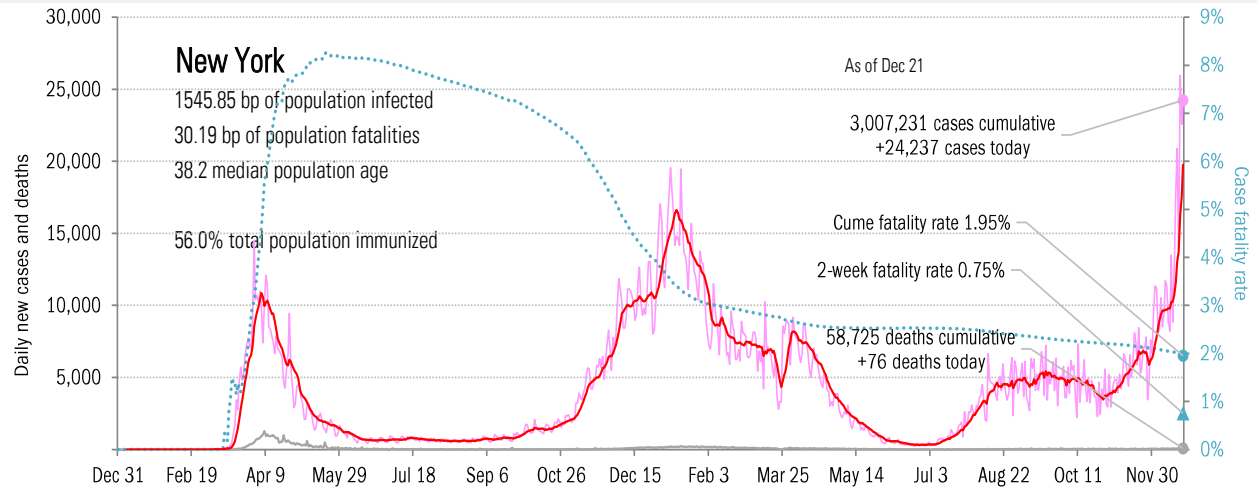
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

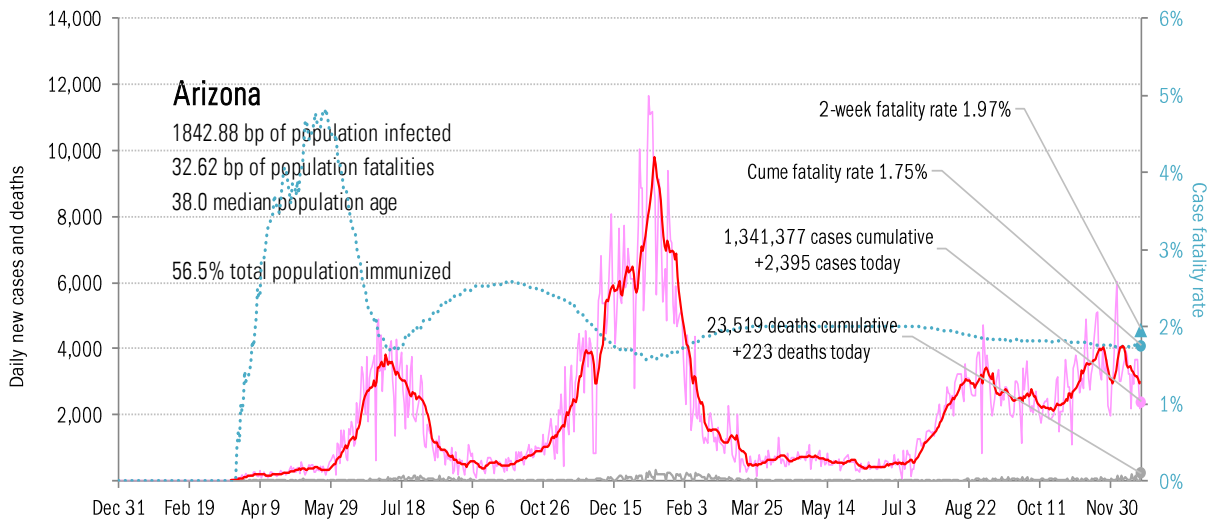
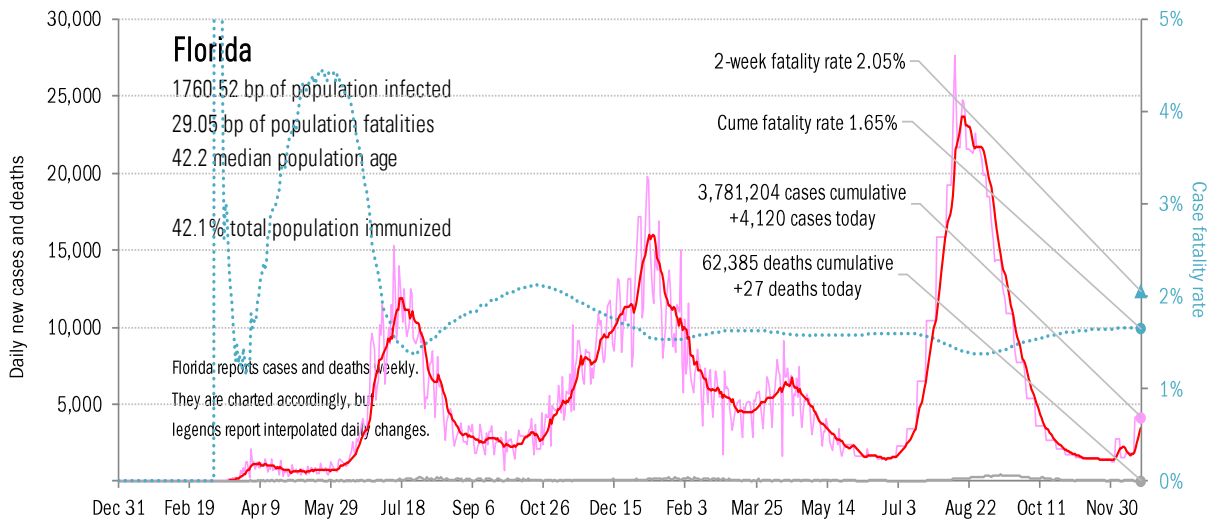
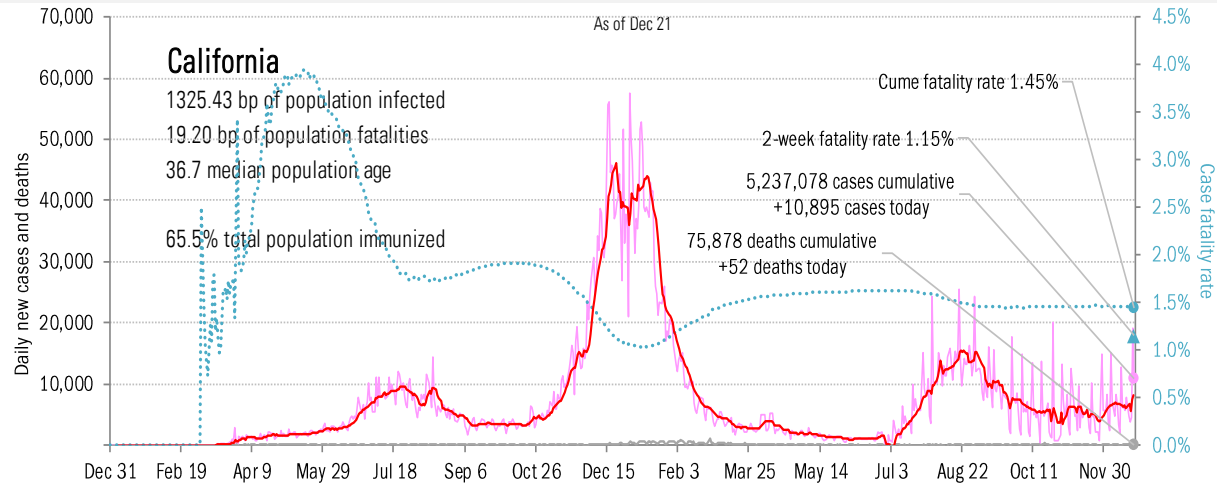
Cases: 7-day average and daily Deaths: Daily



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

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

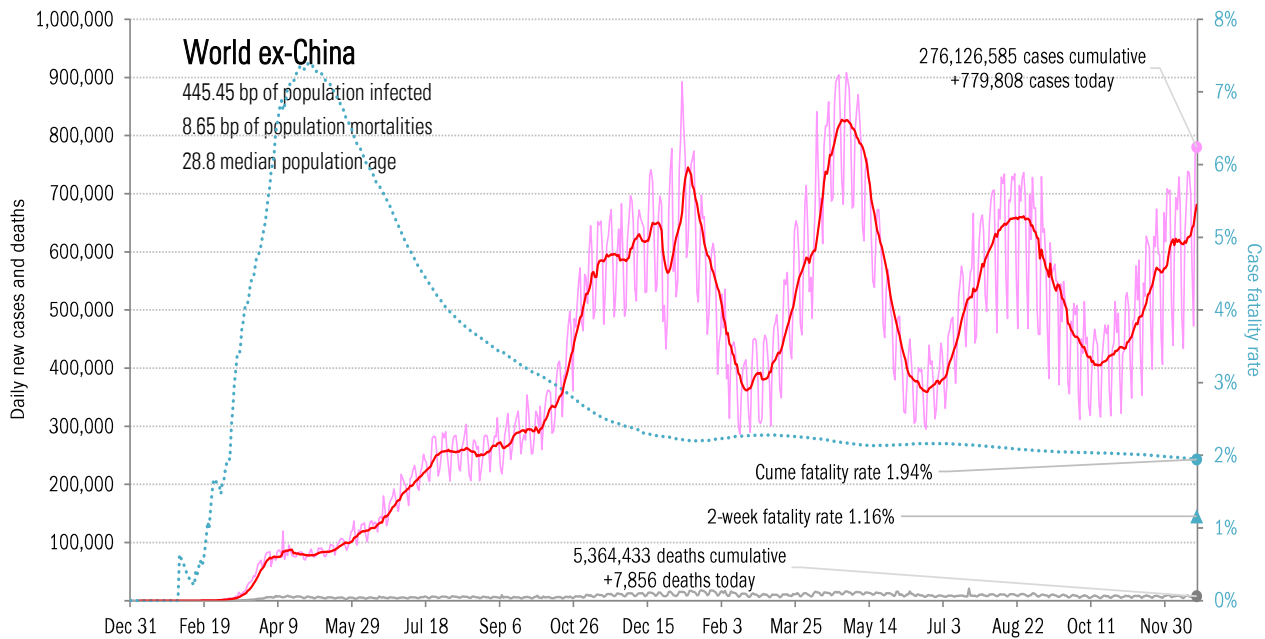
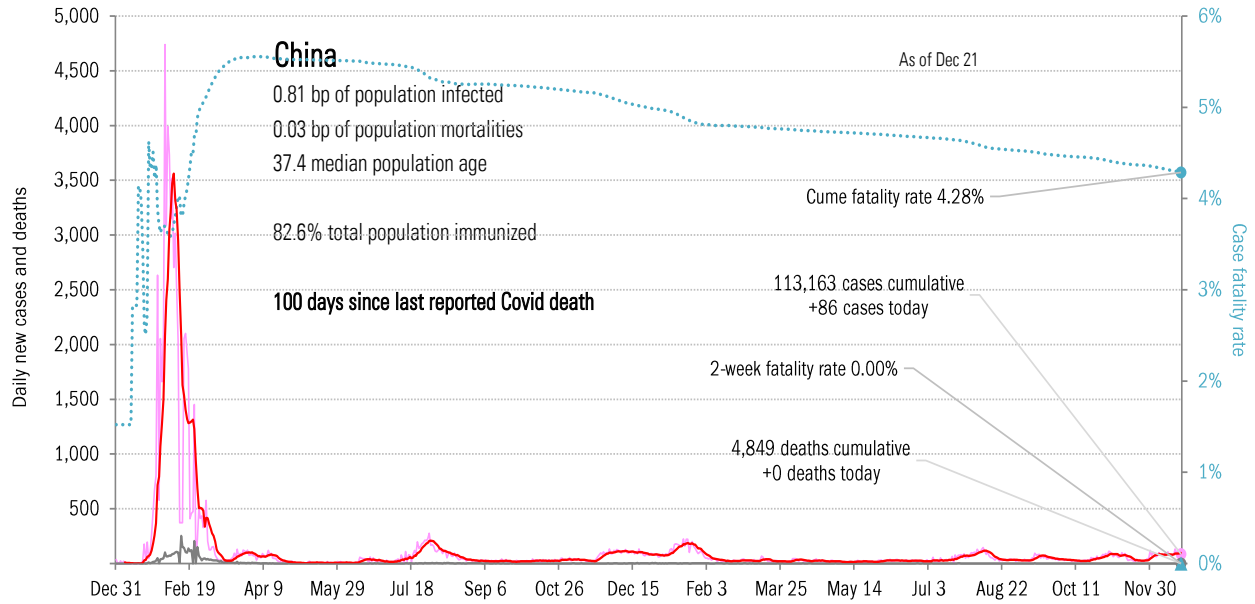
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

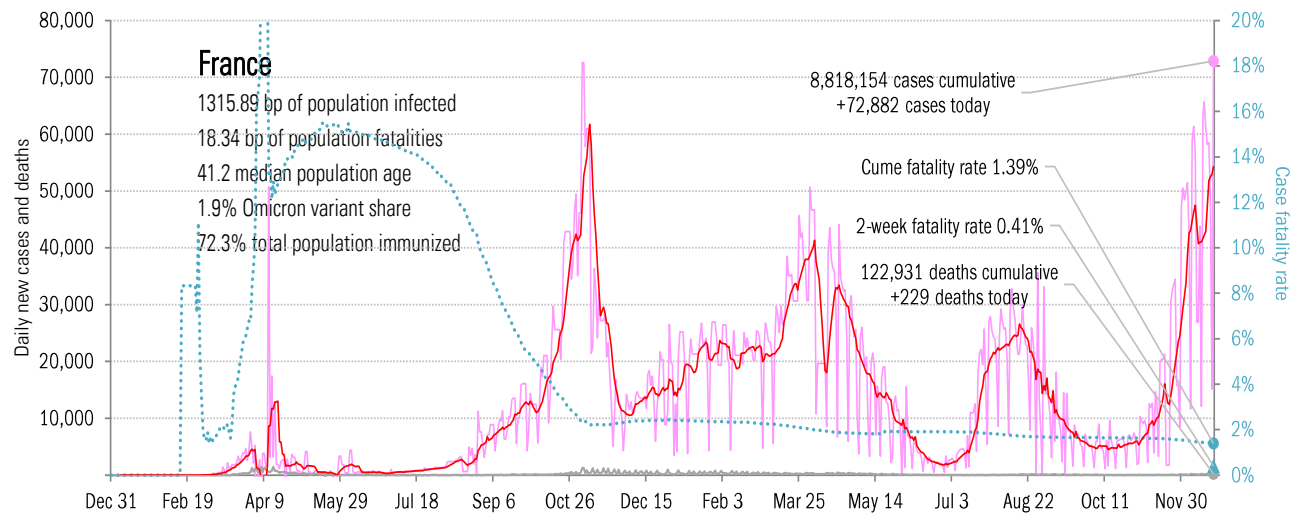
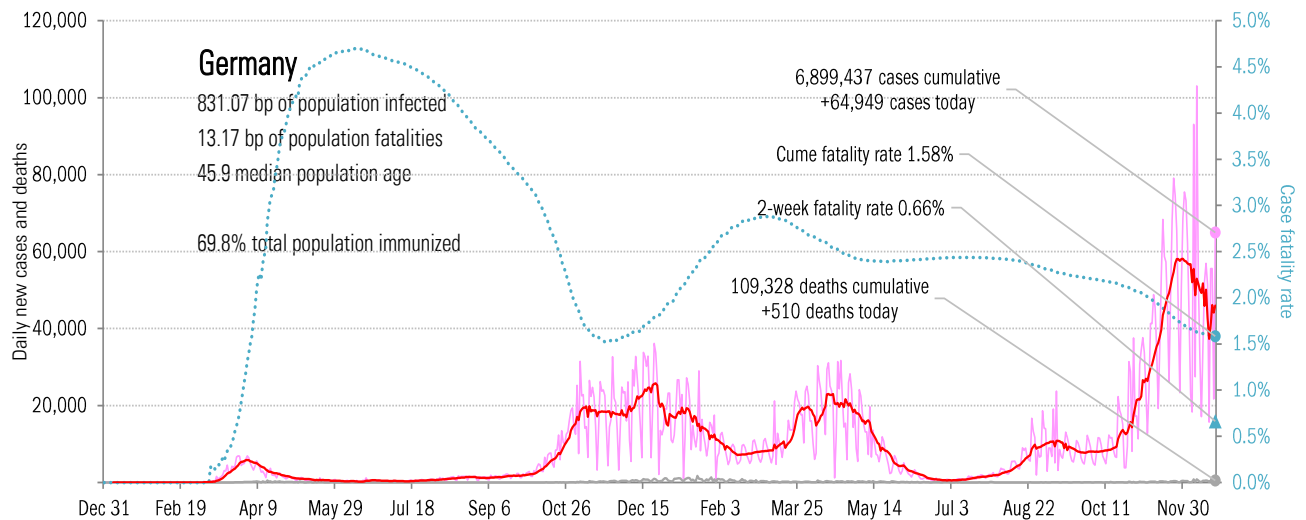
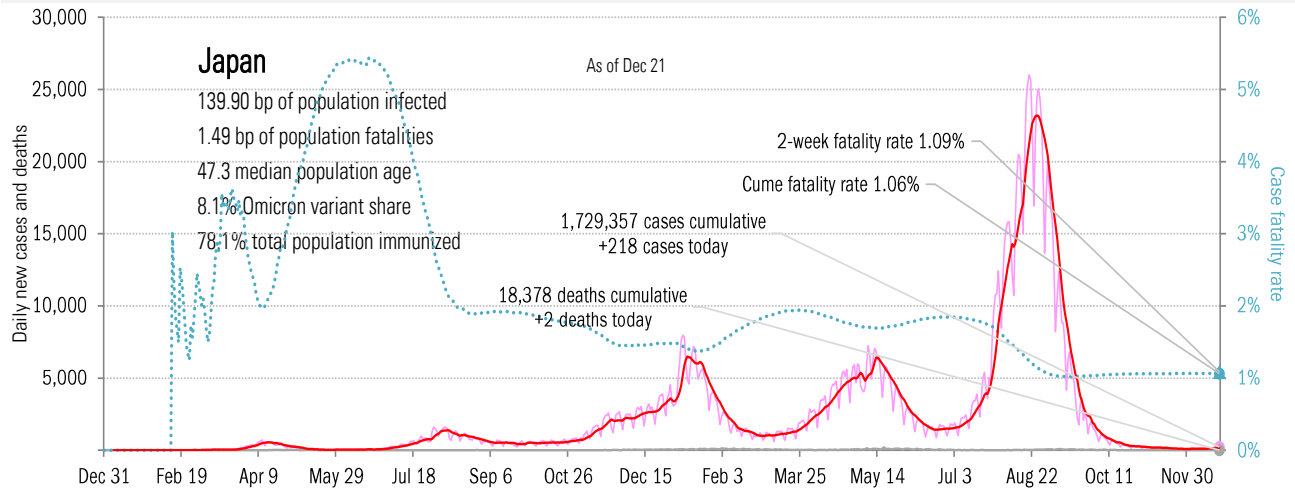
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

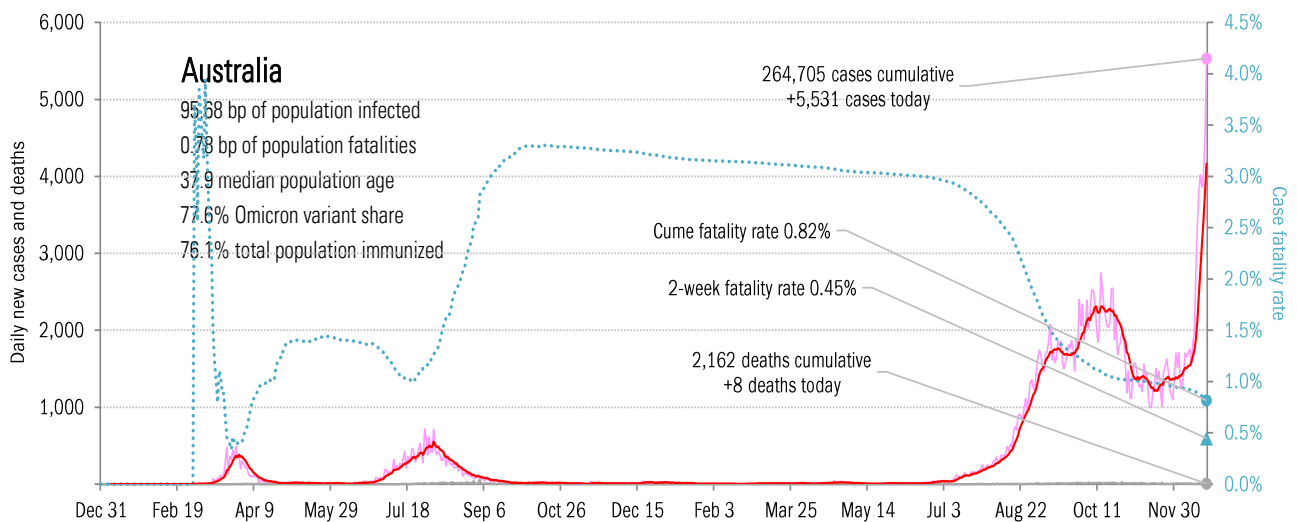
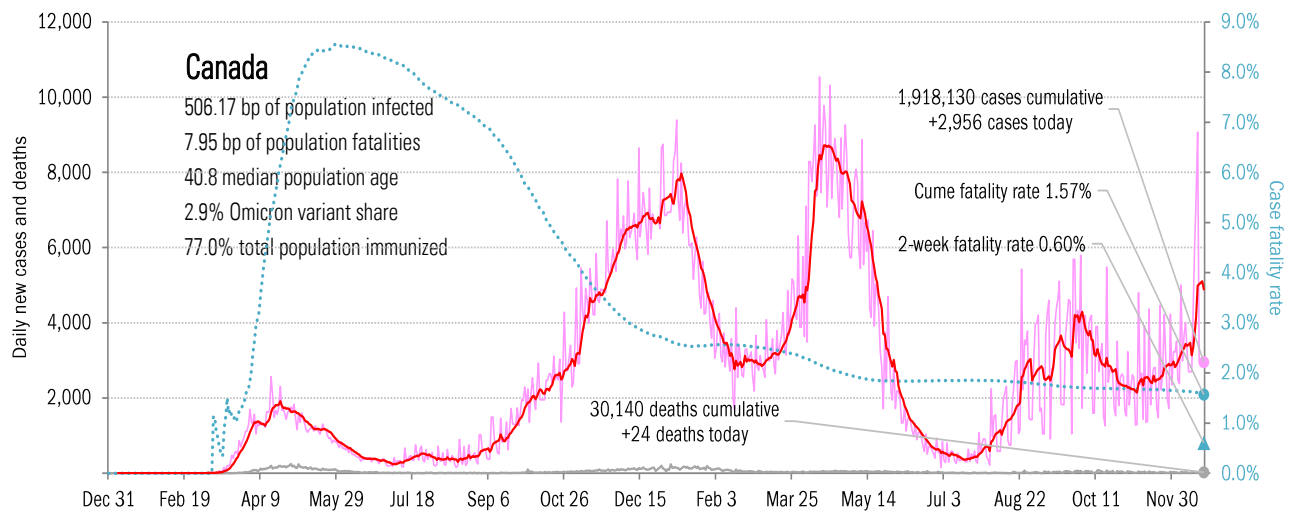
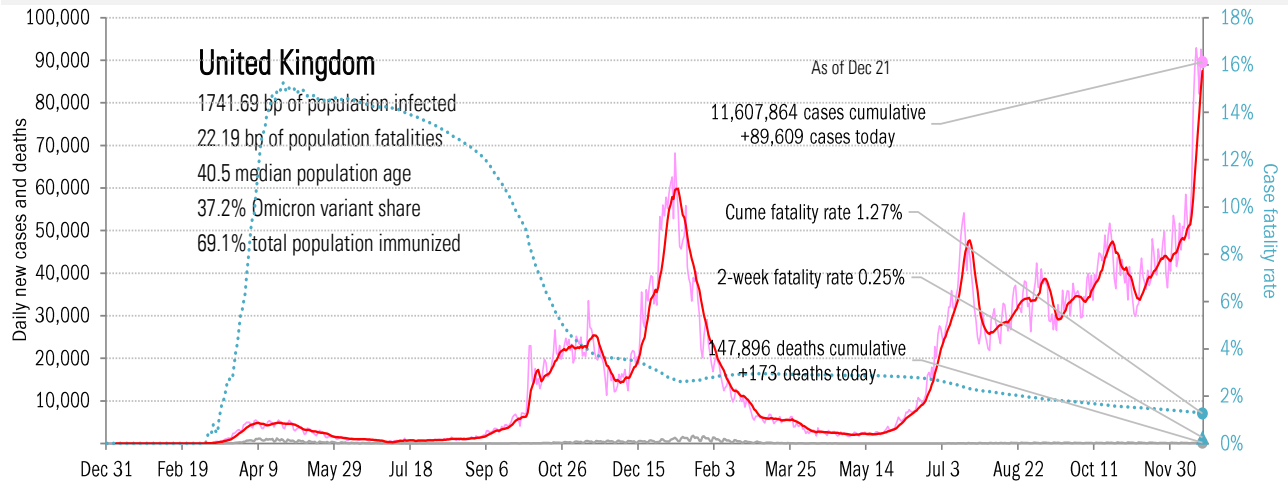
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

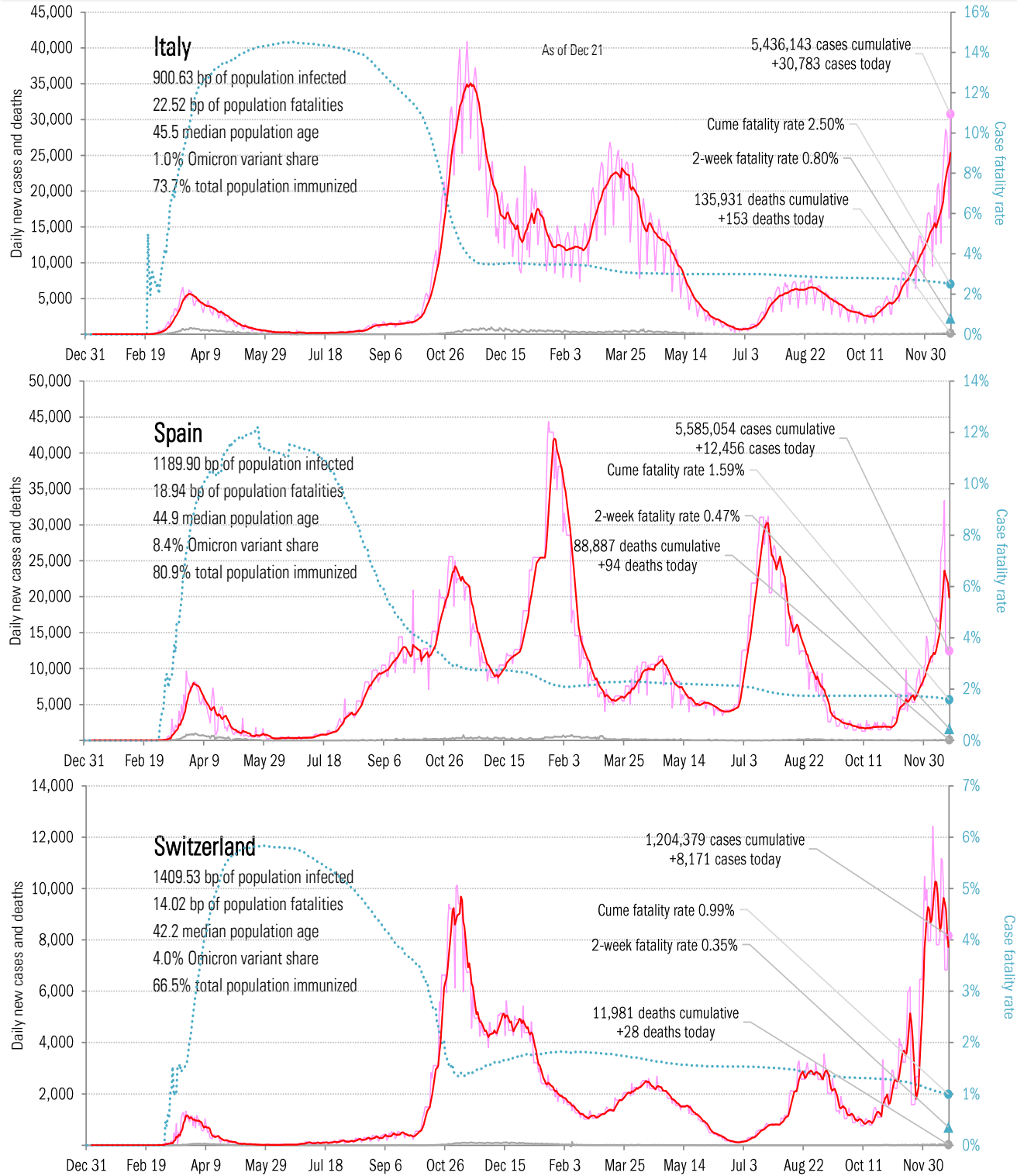
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

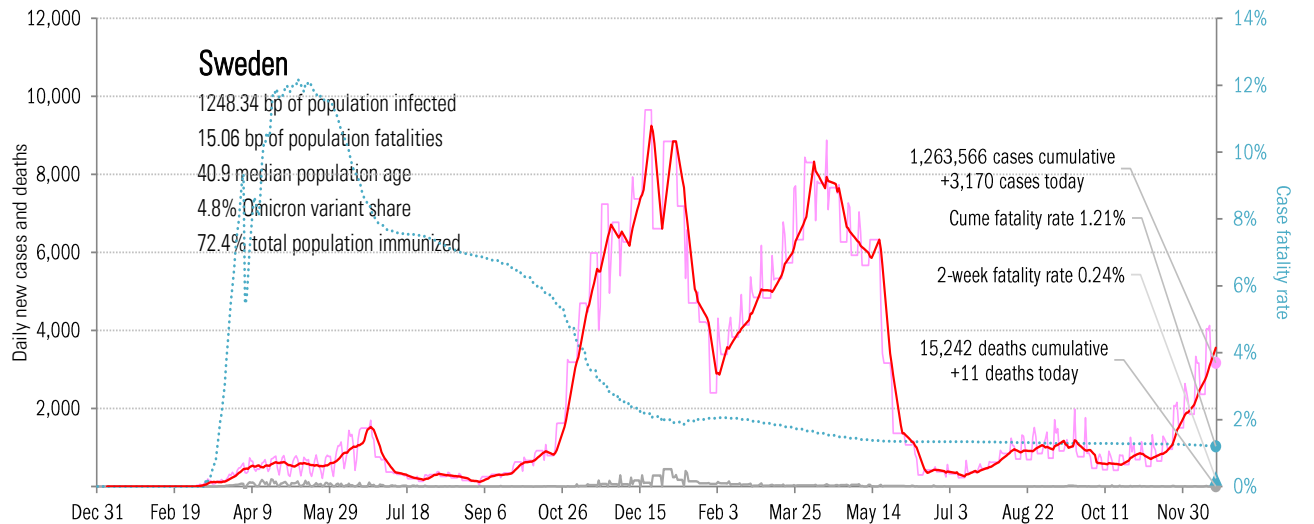
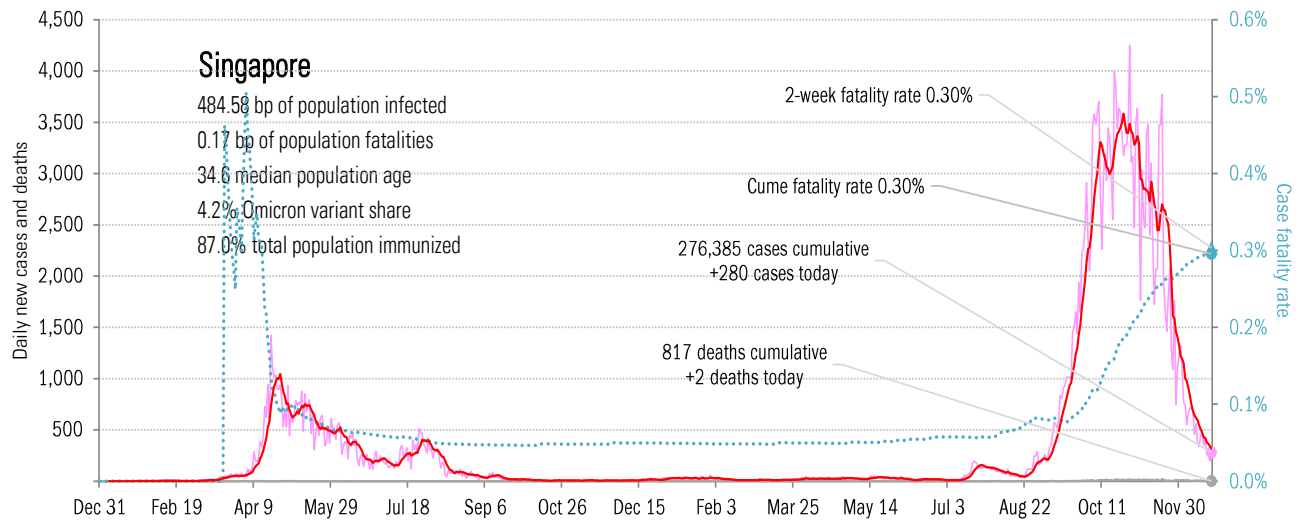
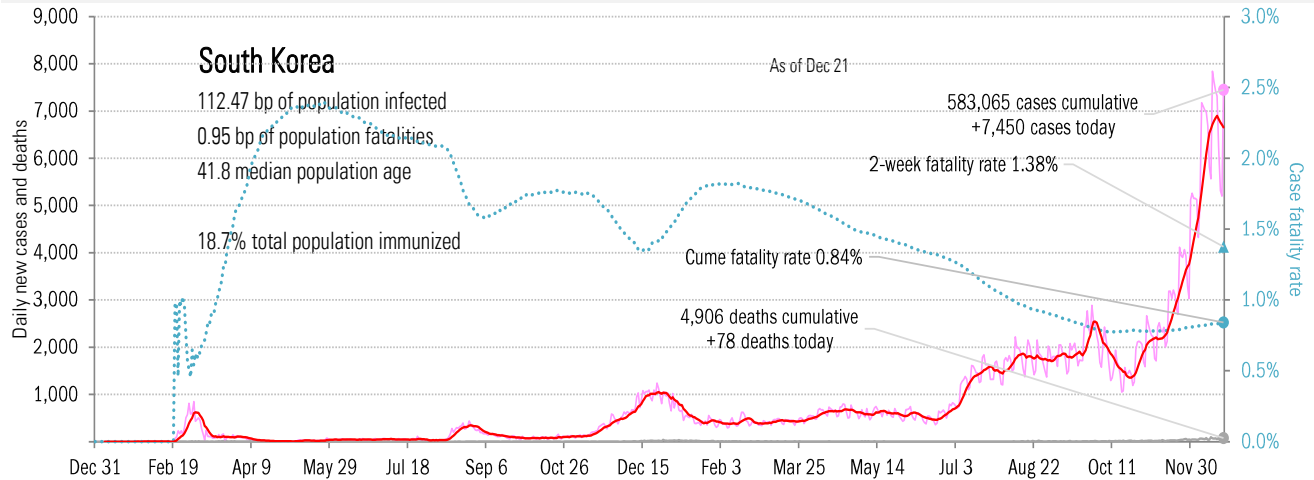
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

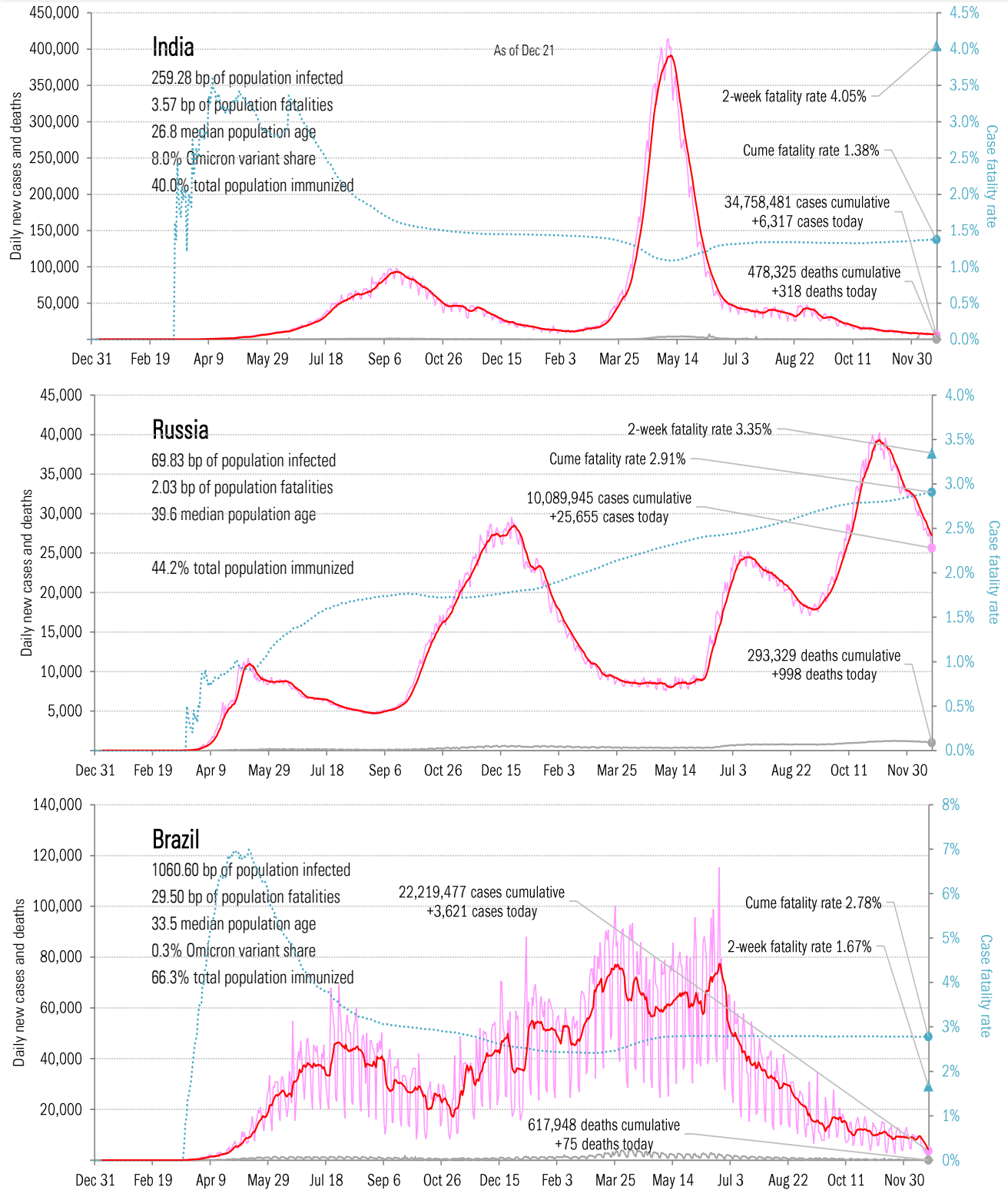
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

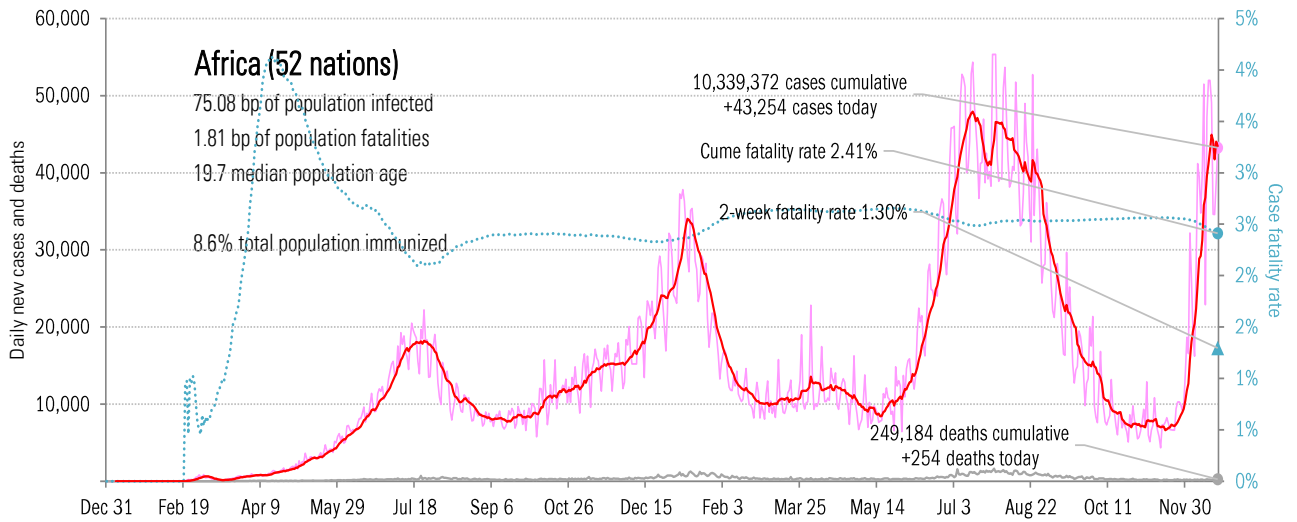
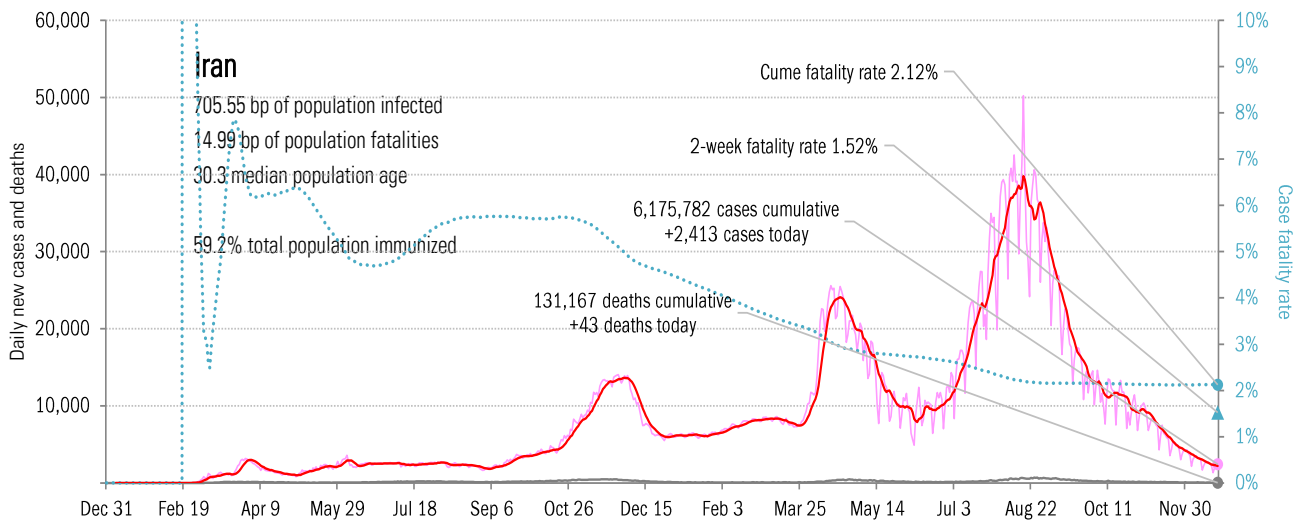
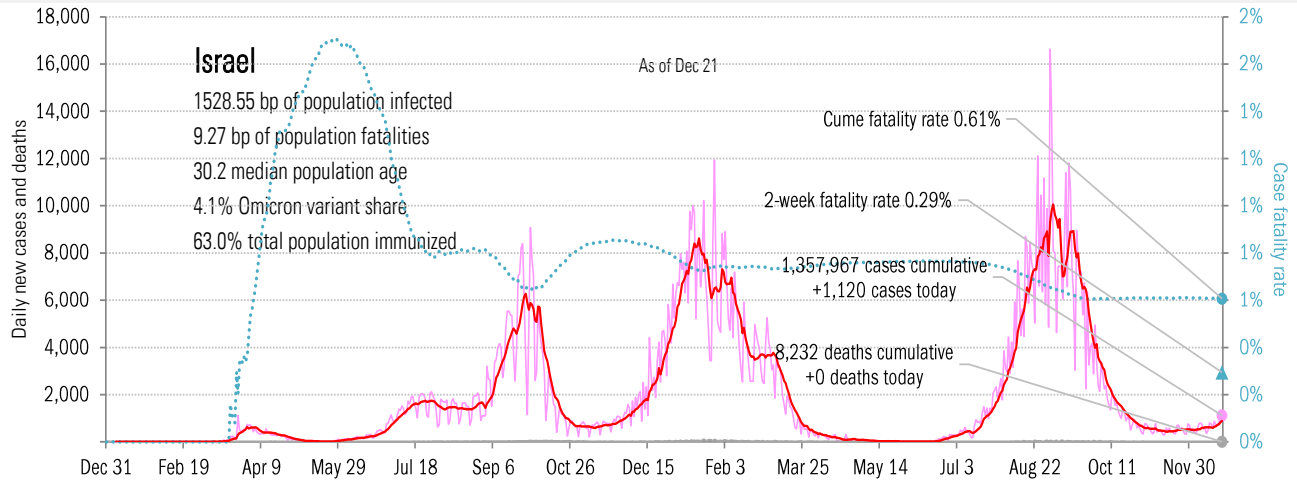
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

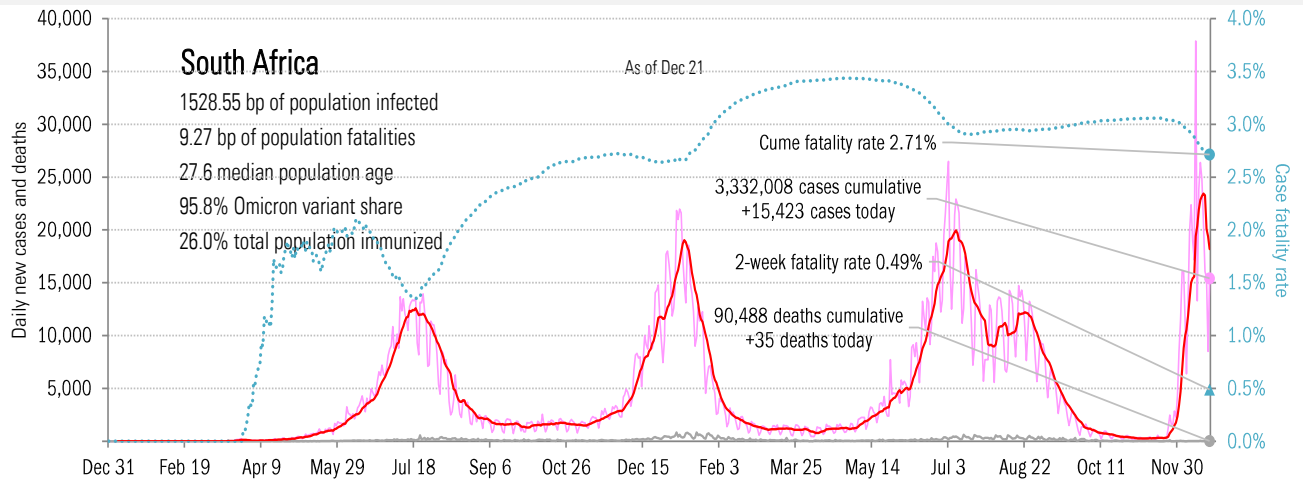
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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