

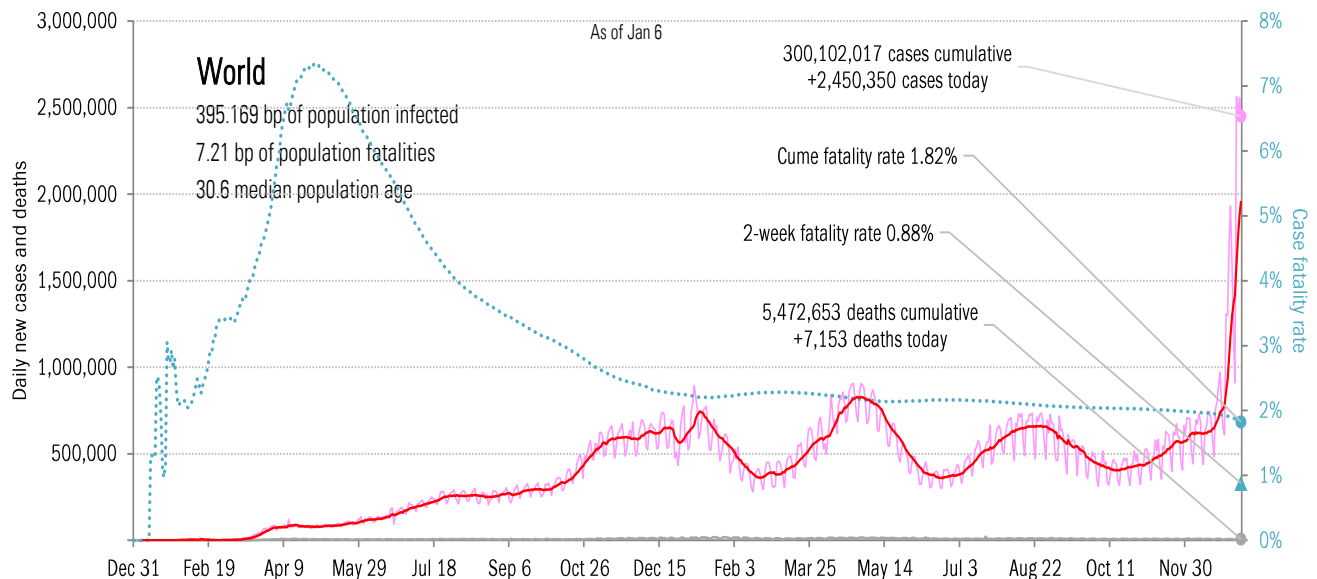
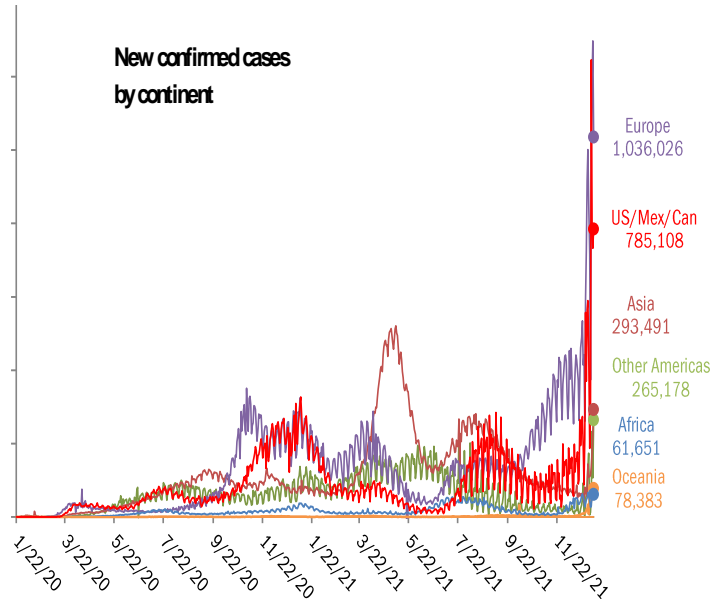
Data Insights: Covid-2019 Monitor

Friday, January 7, 2022

The global scorecard

Cases: 7-day average and daily Deaths: Daily

| The worst ten countries | | | |
|-------------------------|-----------|----------------|-------|
| New cases | | New Deaths | |
| United States | 717,337 | United States | 1,809 |
| France | 262,898 | Russia | 778 |
| Italy | 219,430 | Poland | 645 |
| United Kingdom | 182,240 | South Africa | 551 |
| India | 117,100 | India | 302 |
| Argentina | 109,608 | Germany | 263 |
| Australia | 78,229 | United Kingdom | 232 |
| Turkey | 68,413 | Ukraine | 211 |
| Germany | 59,110 | France | 205 |
| Canada | 41,950 | Italy | 198 |
| 1,856,315 | | 5,194 | |
| World | 2,450,350 | World | 7,153 |
| Top ten | 76% | 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

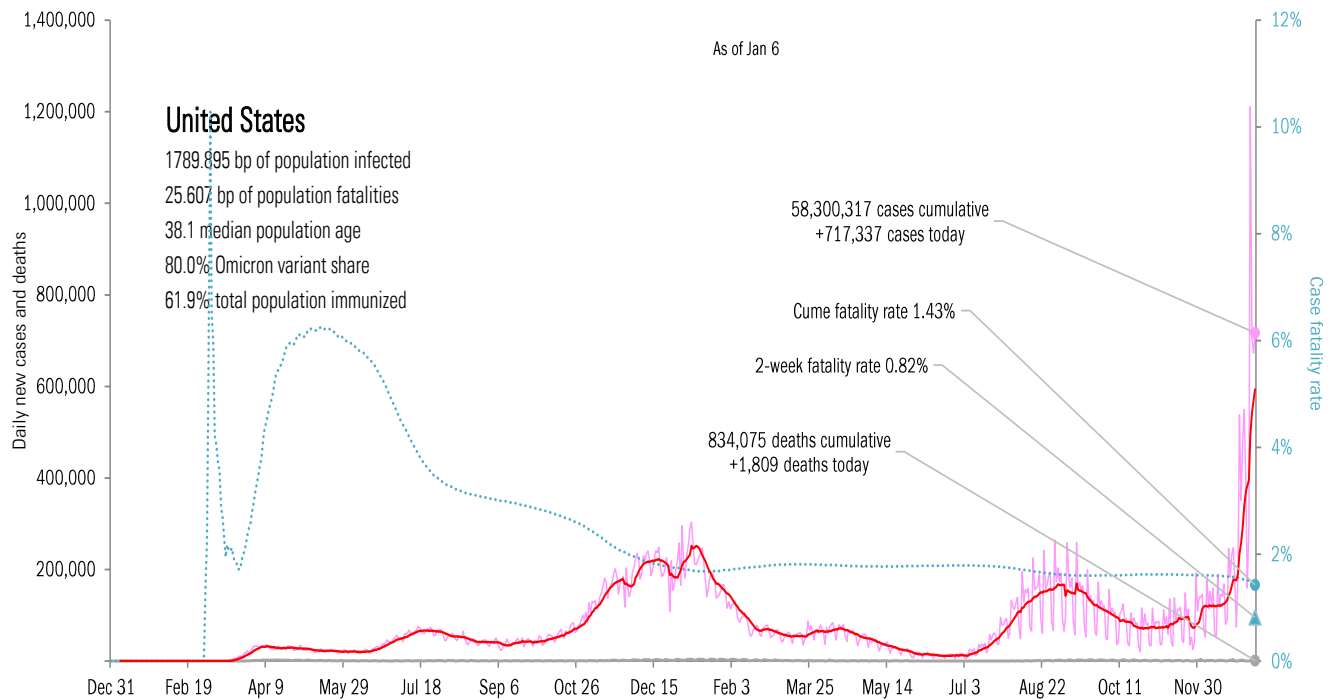
The ten worst US states

| New cases | | | New Deaths | | | New in hospital | | | Cume cases | | | Cume deaths | | | Cume in hospital | | | Hospital use | | ICU use | | | | | | | | | |
|------------|--------|--|------------|-----|--|-----------------|-----|--|------------|-----------|--|-------------|--------|--|------------------|---------|--|--------------|-----|---------|-----------|--|--|------------|--|-----|--|-----|--|
| CA | 86,590 | | PA | 255 | | CA | 635 | | CA | 5,894,761 | | CA | 76,792 | | TX | 410,709 | | GA | 87% | TX | 94% | | | | | | | | |
| NY | 78,267 | | IN | 152 | | FL | 612 | | TX | 4,897,362 | | TX | 76,260 | | FL | 346,429 | | PA | 87% | NM | 90% | | | | | | | | |
| FL | 56,611 | | NY | 143 | | TX | 442 | | FL | 4,298,896 | | FL | 62,709 | | CA | 343,127 | | MA | 86% | IN | 90% | | | | | | | | |
| TX | 45,375 | | TX | 128 | | GA | 265 | | NY | 3,890,666 | | NY | 60,166 | | NY | 202,217 | | MN | 86% | AL | 90% | | | | | | | | |
| IL | 44,089 | | NJ | 106 | | NJ | 221 | | IL | 2,339,534 | | PA | 37,366 | | GA | 174,921 | | WA | 86% | MO | 89% | | | | | | | | |
| NJ | 32,264 | | IL | 104 | | NY | 217 | | PA | 2,179,312 | | GA | 31,521 | | CH | 160,661 | | RI | 86% | KY | 88% | | | | | | | | |
| PA | 29,026 | | NE | 72 | | LA | 178 | | CH | 2,132,266 | | IL | 30,693 | | PA | 148,033 | | WV | 85% | DE | 88% | | | | | | | | |
| MA | 27,411 | | TN | 69 | | NC | 124 | | GA | 1,928,942 | | CH | 29,674 | | IL | 131,265 | | MI | 84% | OK | 88% | | | | | | | | |
| NC | 24,292 | | WA | 65 | | VA | 118 | | MI | 1,808,738 | | MI | 29,659 | | KY | 122,099 | | MD | 84% | RI | 88% | | | | | | | | |
| CH | 19,442 | | MN | 62 | | IL | 115 | | NC | 1,787,906 | | NJ | 29,315 | | MI | 120,675 | | ND | 84% | NV | 88% | | | | | | | | |
| 443,367 | | | 1,156 | | | 2,927 | | | 31,158,383 | | | 464,155 | | | 2,160,136 | | | | | | | | | | | | | | |
| All states | | | 717,337 | | | 1,809 | | | 4,609 | | | All states | | | 58,300,317 | | | 834,075 | | | 3,899,491 | | | All states | | 70% | | 67% | |
| Top ten | | | 62% | | | 64% | | | 64% | | | Top ten | | | 53% | | | 56% | | | 55% | | | Median | | 78% | | 84% | |

Some states not reporting

Five most improved US states

| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | | Most pop immunity growth | |
|-------------------|---------|------------------|------|----------------------------|------|--------------------------|--------|
| MI | -32,856 | MI | -316 | NY | -439 | IL | +20 bp |
| GA | -24,024 | IA | -161 | TX | -233 | AK | +10 bp |
| KS | -15,081 | FL | -128 | MD | -177 | AZ | +10 bp |
| NJ | -5,021 | CA | -94 | PA | -168 | CA | +10 bp |
| MA | -3,394 | AZ | -45 | FL | -167 | GA | +10 bp |

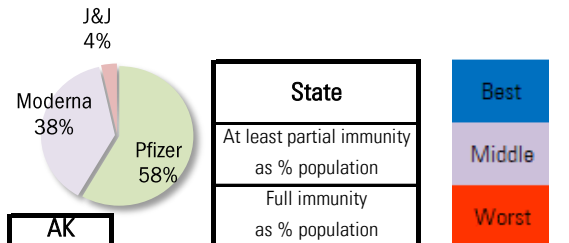


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

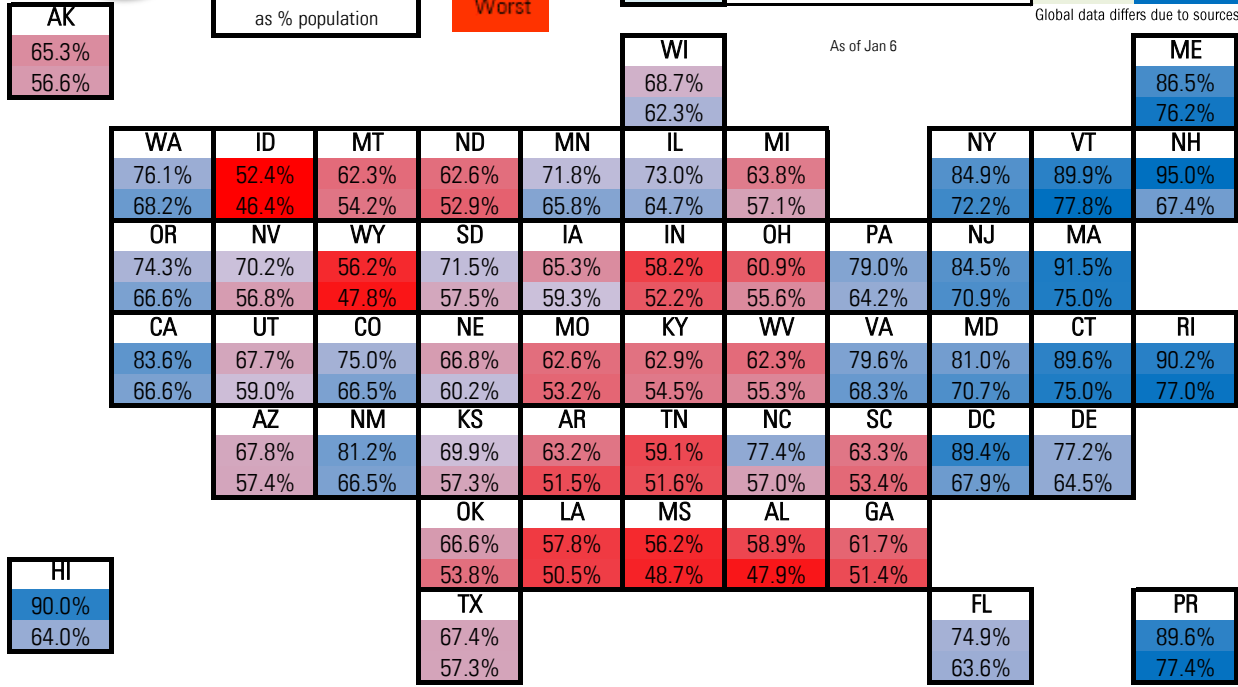
| Administered | Cumulative | Today | Immunity | Full | Partial |
|------------------|-----------------|----------------|---------------|--------------|-------------------------|
| Doses | 528,486,768 | +1.343 million | US | 61.9% | 74.0% |
| Boosters | 74,058,587 | +0.738 million | UK | 69.7% | 76.1% |
| | One dose | % Pop | Immune | % pop | New immune today |
| Total population | 251,654,761 | 75% | 212,161,886 | 64% | +0.221 million |
| Age 12 to 17 | 15,320,903 | 64% | 12,858,669 | 54% | +0.017 million |
| Age 18 to 64 | 170,198,741 | 84% | 144,099,361 | 71% | +0.114 million |
| Age 65 and over | 57,896,818 | 100% | 49,717,980 | 91% | +0.017 million |

| | | |
|-----------|-------|-------|
| France | 74.0% | 78.6% |
| Spain | 81.4% | 85.4% |
| Germany | 71.0% | 73.8% |
| Italy | 74.4% | 80.6% |
| Australia | 77.0% | 79.5% |
| Israel | 64.1% | 71.2% |
| Canada | 77.5% | 83.6% |
| Japan | 78.9% | 80.3% |
| Africa | 9.6% | 14.7% |
| India | 44.6% | 62.5% |
| Brazil | 67.2% | 77.8% |
| China | 83.6% | 87.2% |

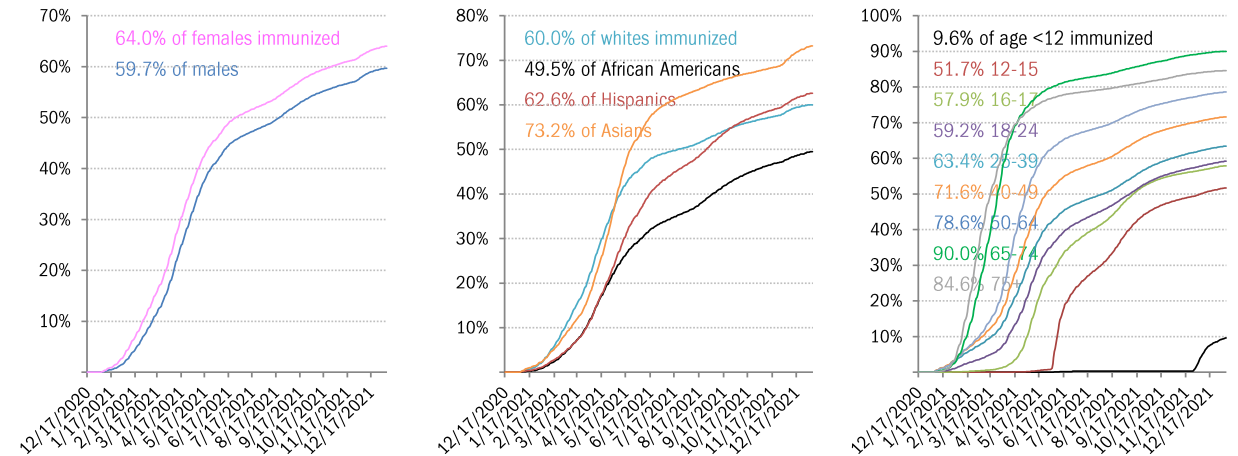


Every American >18 immunized in **350 days** by Dec 21, 2022
 75.1% of population >18 immunized
 20.5% previously tested positive
95.6% vs 60% adult herd immunity

Global data differs due to sources, timing



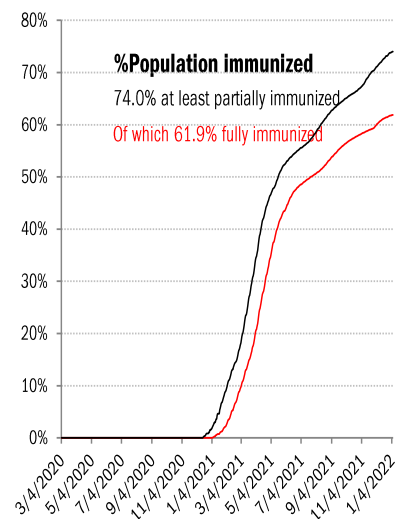
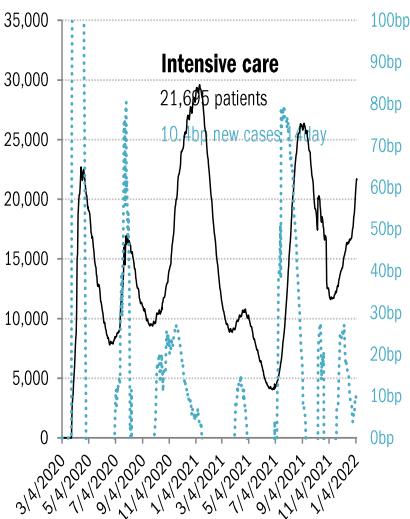
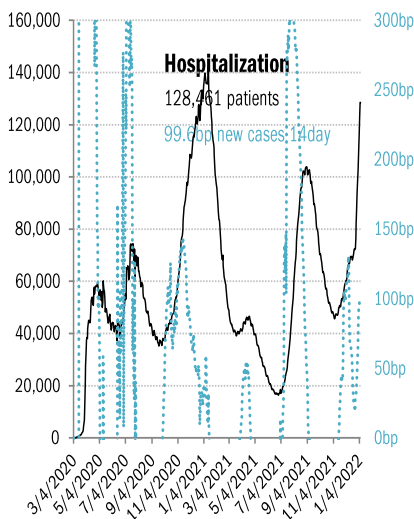
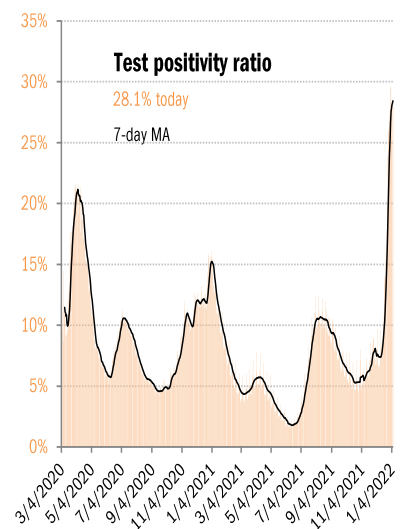
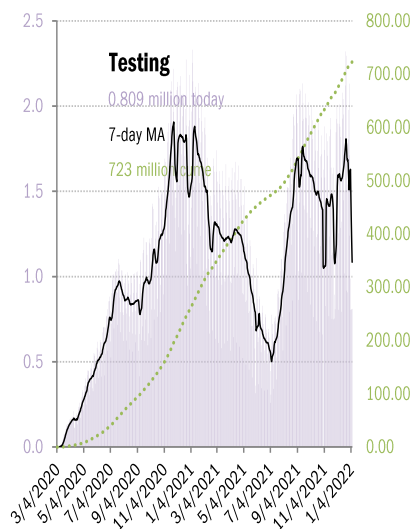
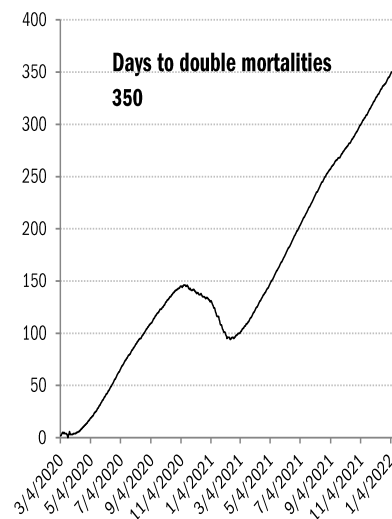
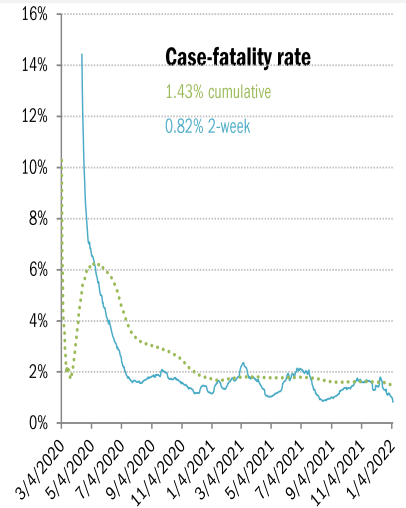
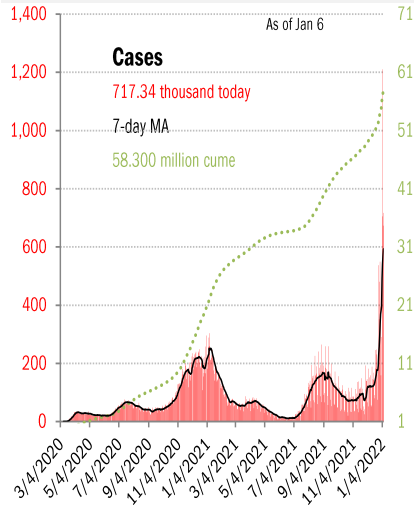
The demographics of US vaccination



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

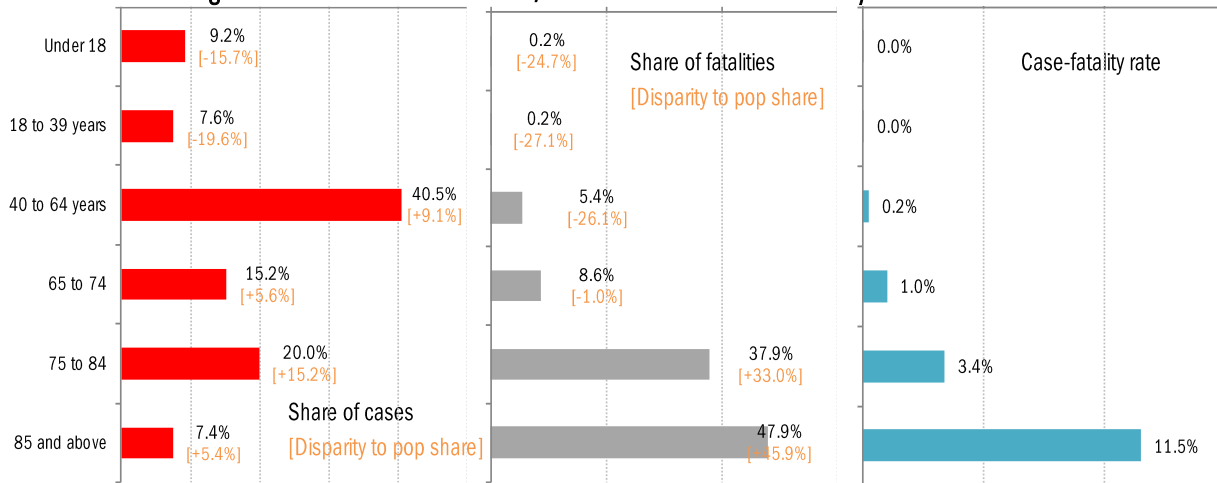
US deep-dive

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

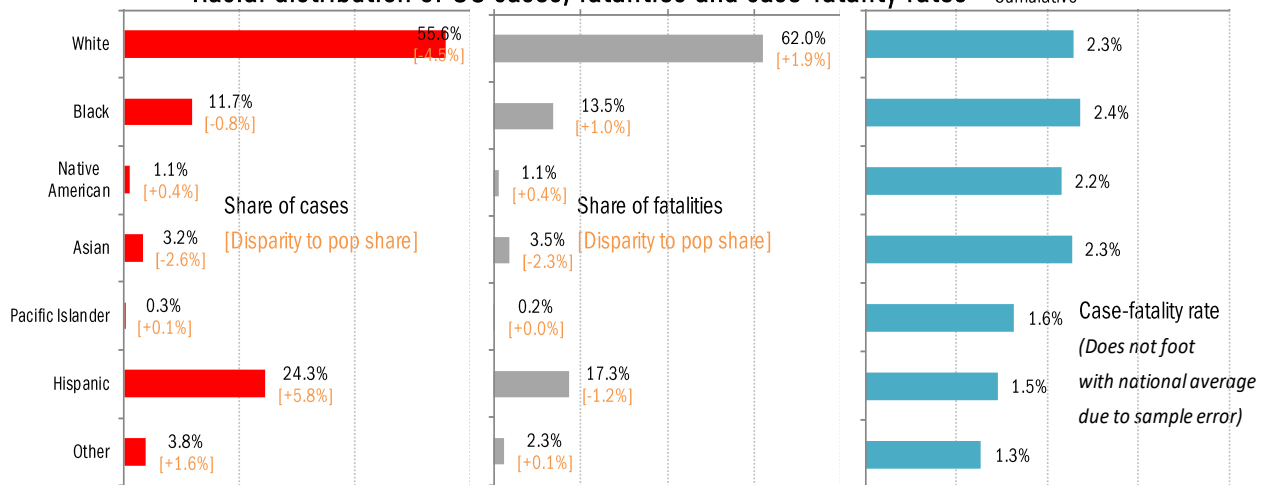


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

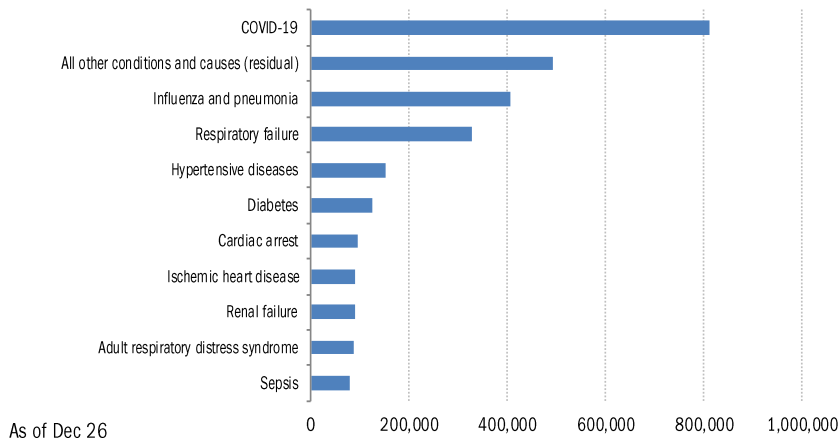


Racial distribution of US cases, fatalities and case-fatality rates



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

[Biden, in Shift, Prepares Americans to See Covid-19 as Part of Life](#)

Sabrina Siddiqui
Wall Street Journal
January 6, 2022

[Will 'Forever Boosting' Beat the Coronavirus?](#)

Apoorva Mandavilli
New York Times
January 6, 2022

[SARS-CoV-2 T Cell Responses Elicited by COVID-19 Vaccines or Infection Are Expected to Remain Robust against Omicron](#)

Syed Faraz Ahmed et al.
Viruses
January 2, 2022

[Ex-White House testing czar criticizes Biden's 'incorrect' claim it is still the 'pandemic of the unvaccinated' because it suggests the vaccinated are protected from Omicron](#)

Rob Crilly
Daily Mail
January 5, 2022

[French leader draws fire with vow to make life "miserable" for COVID vaccine refusers](#)

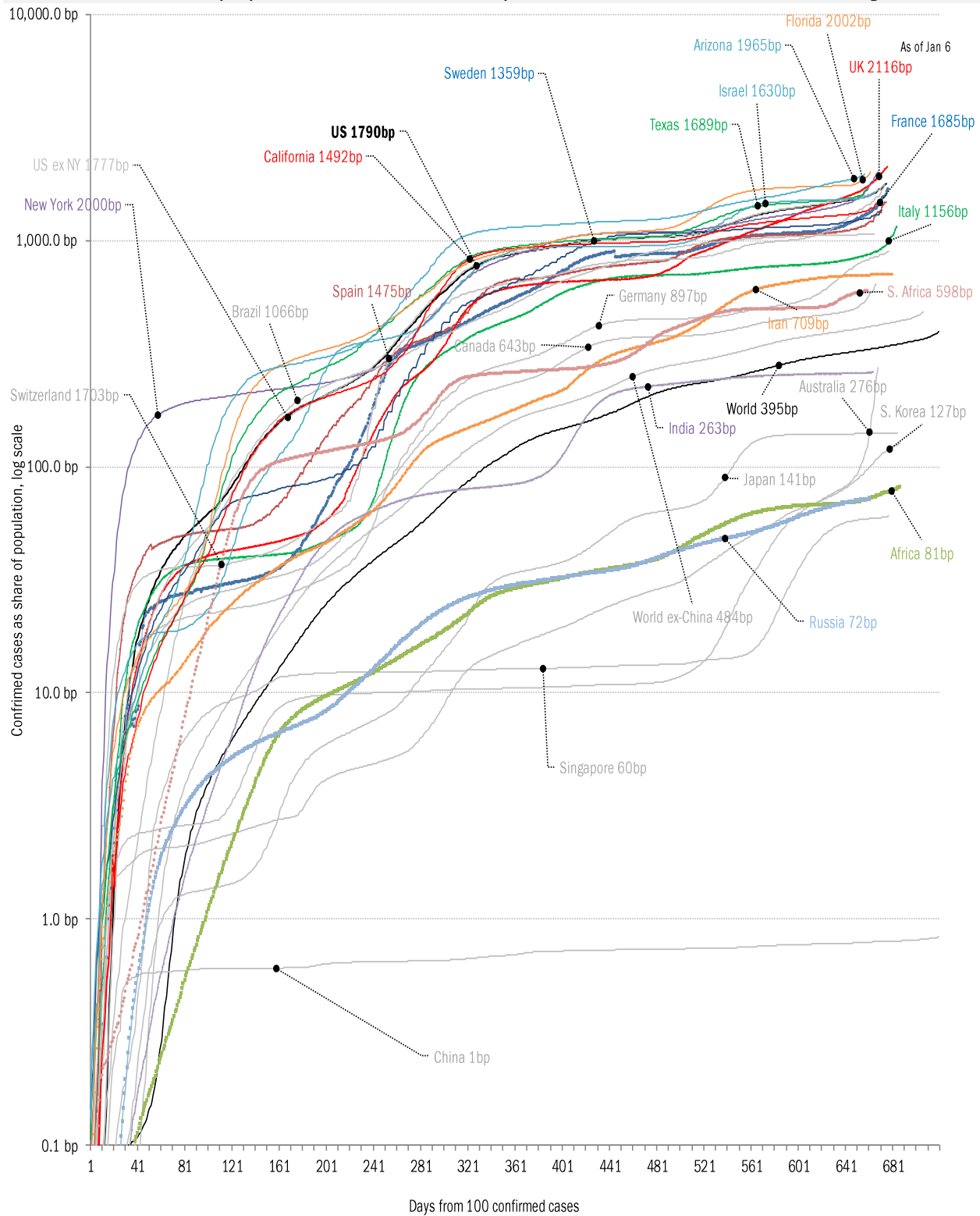
Elaine Cobbe
CBS News
January 5, 2022

Meme of the day



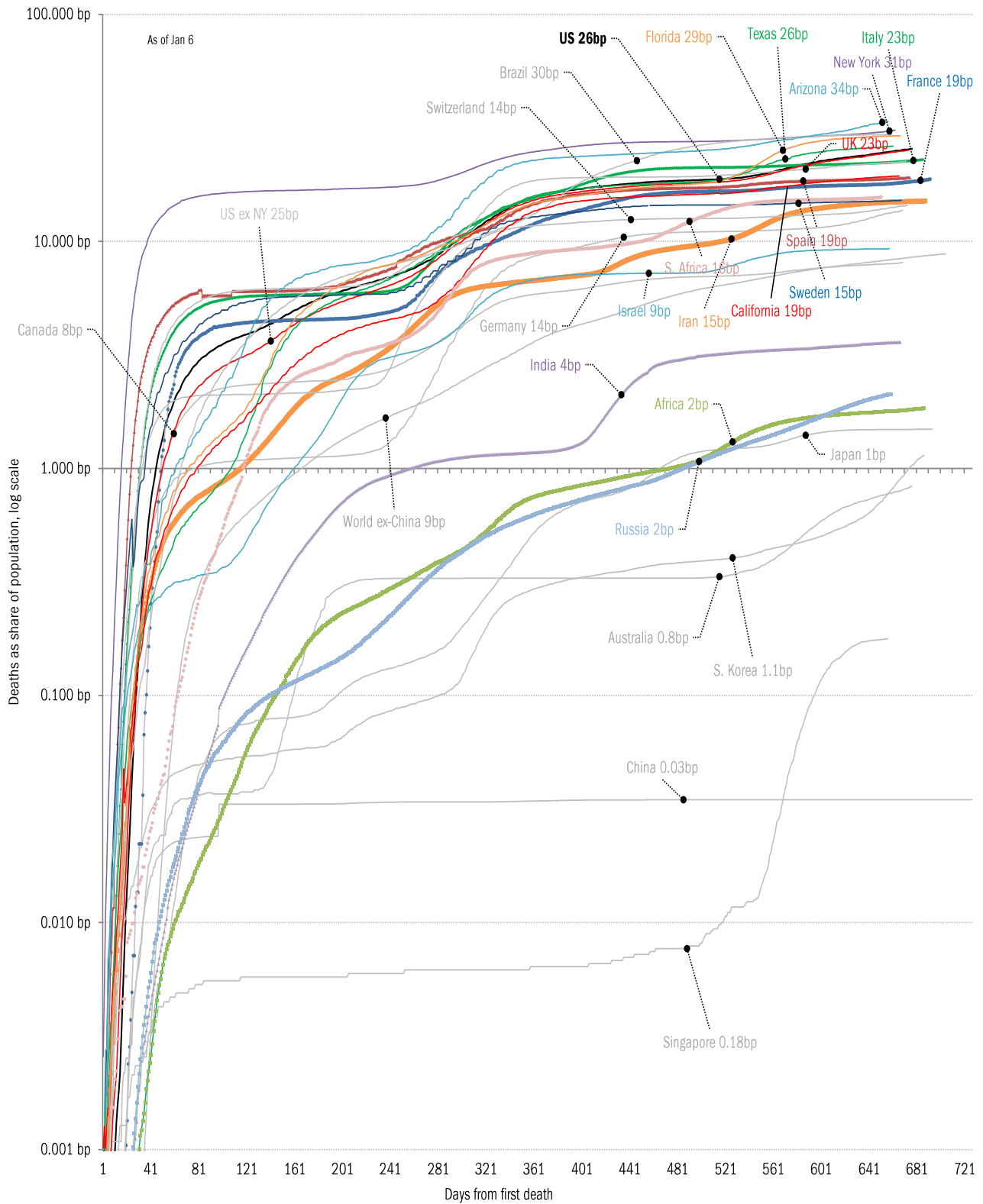
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

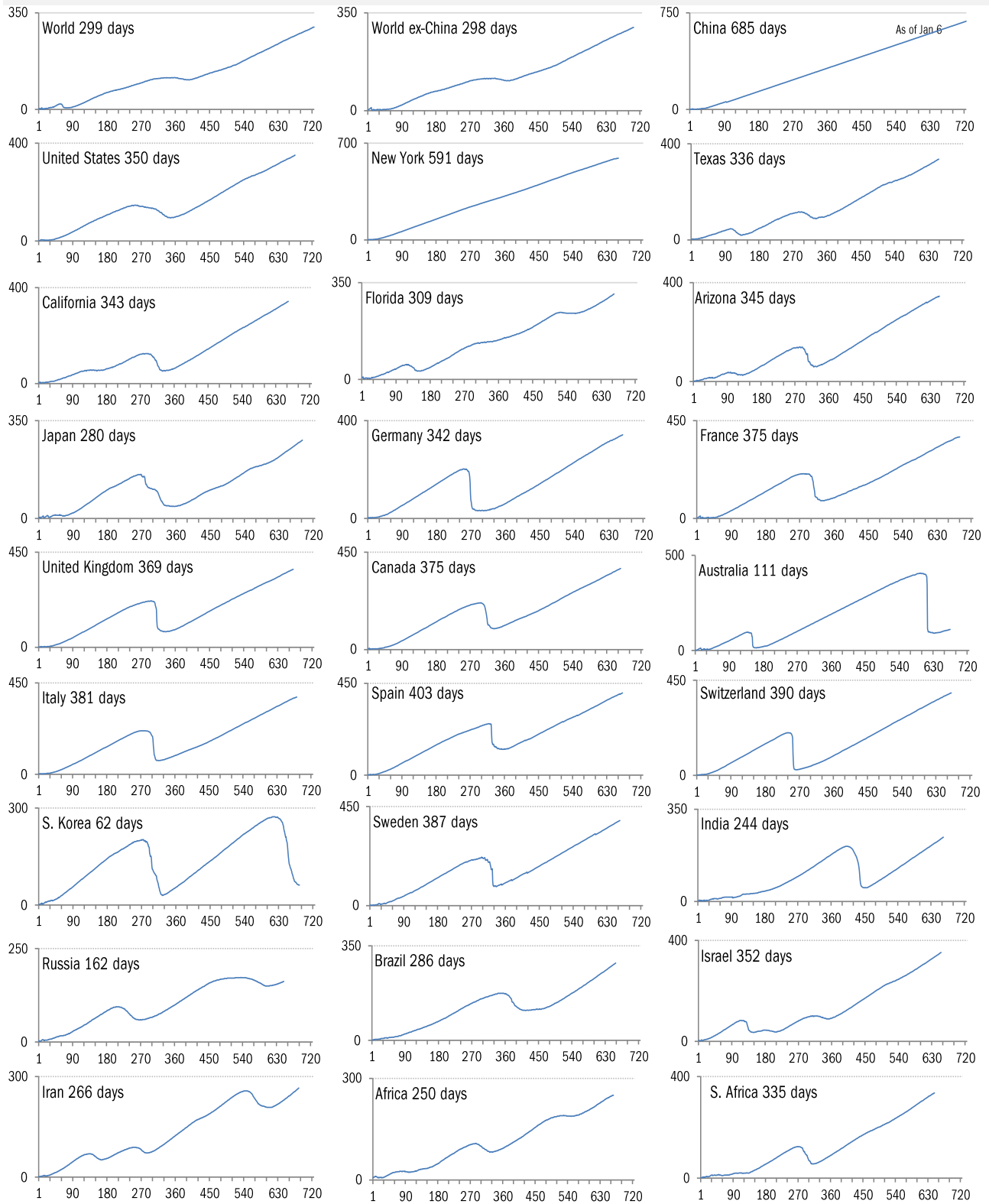


Source: [Johns Hopkins](#), TrendMacro calculations

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

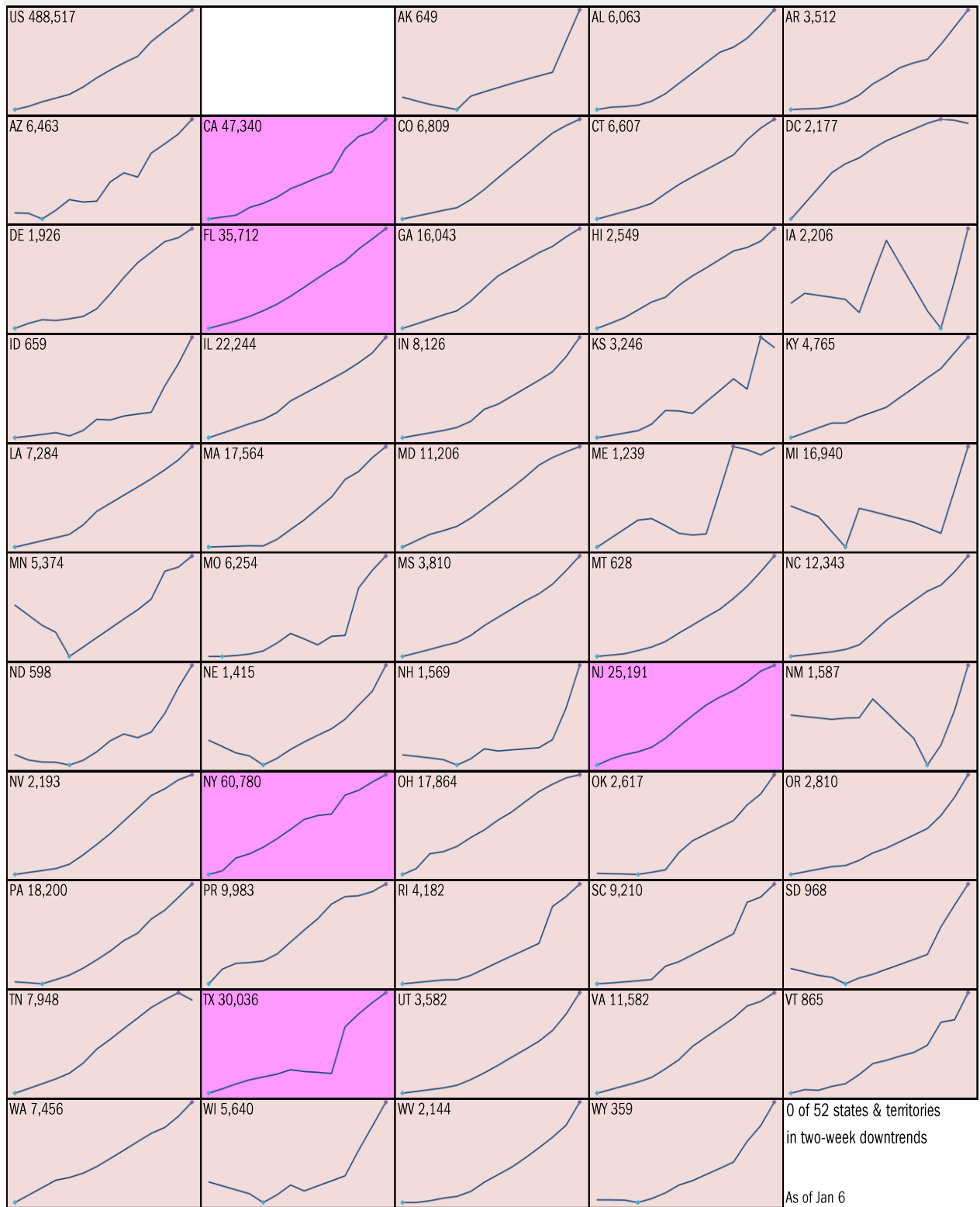
Vertical: days to double deaths Horizontal: days from first death

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

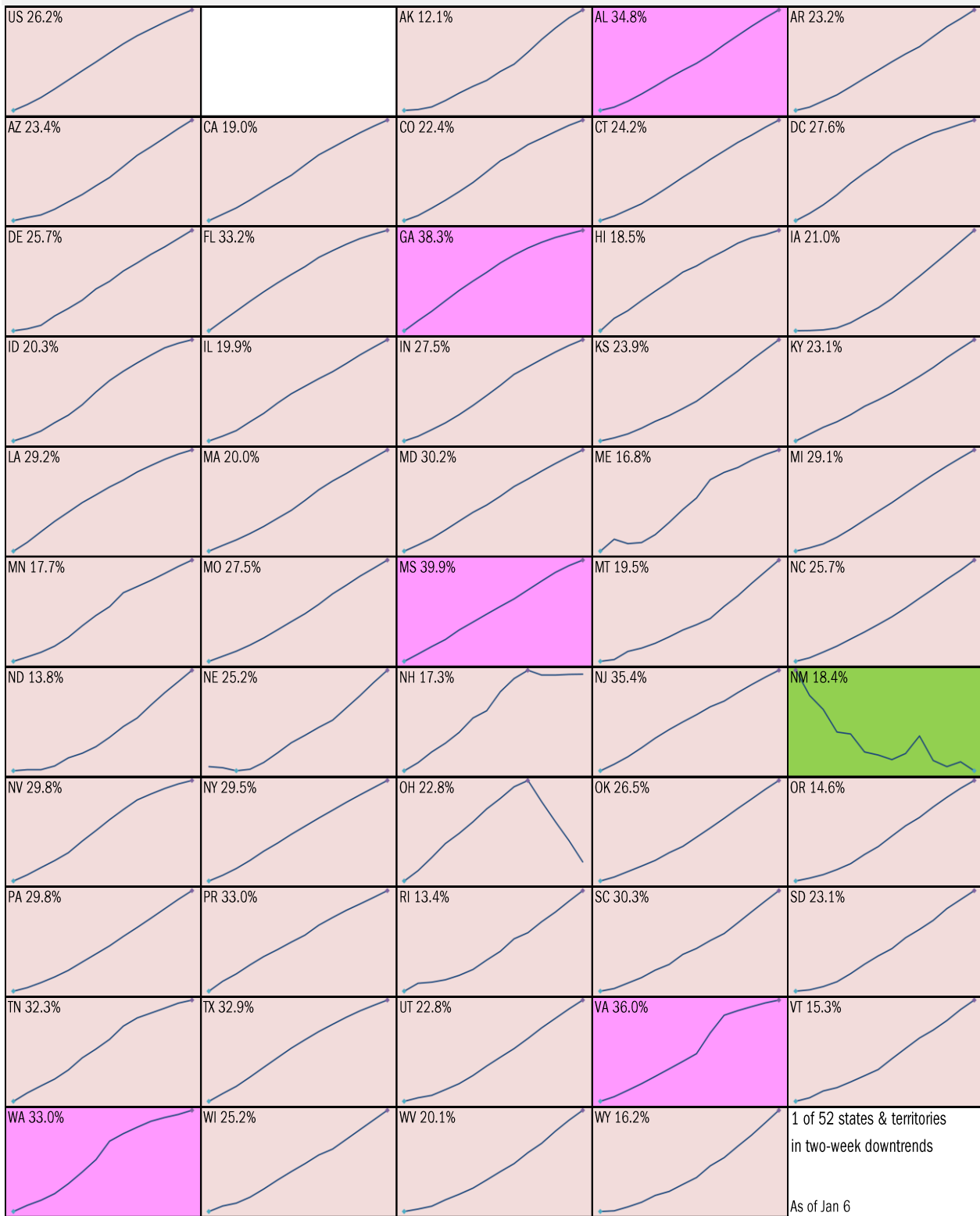


Source: [Johns Hopkins](#), TrendMacro calculations

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

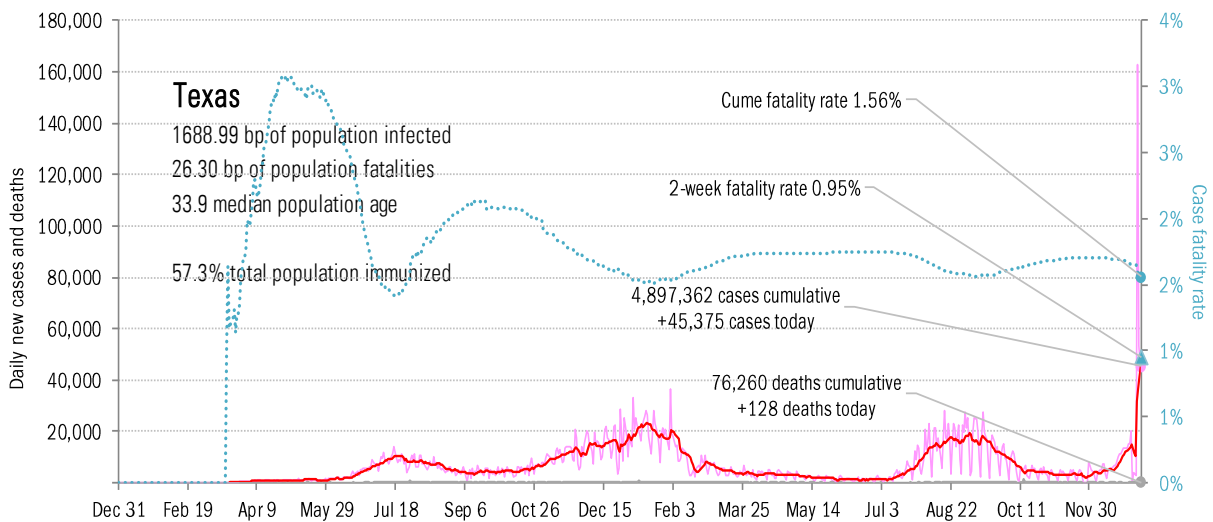
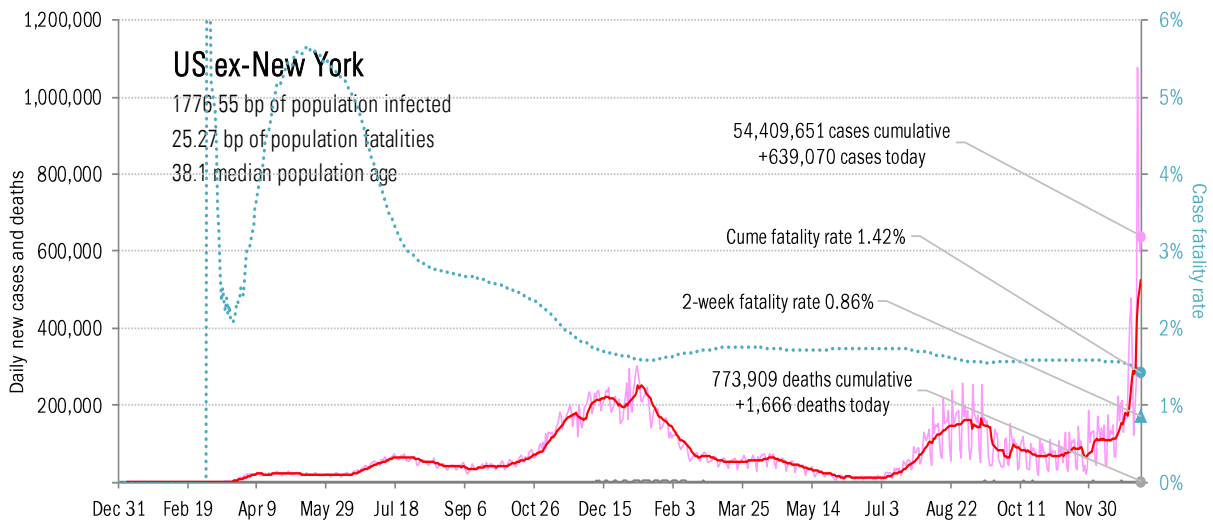
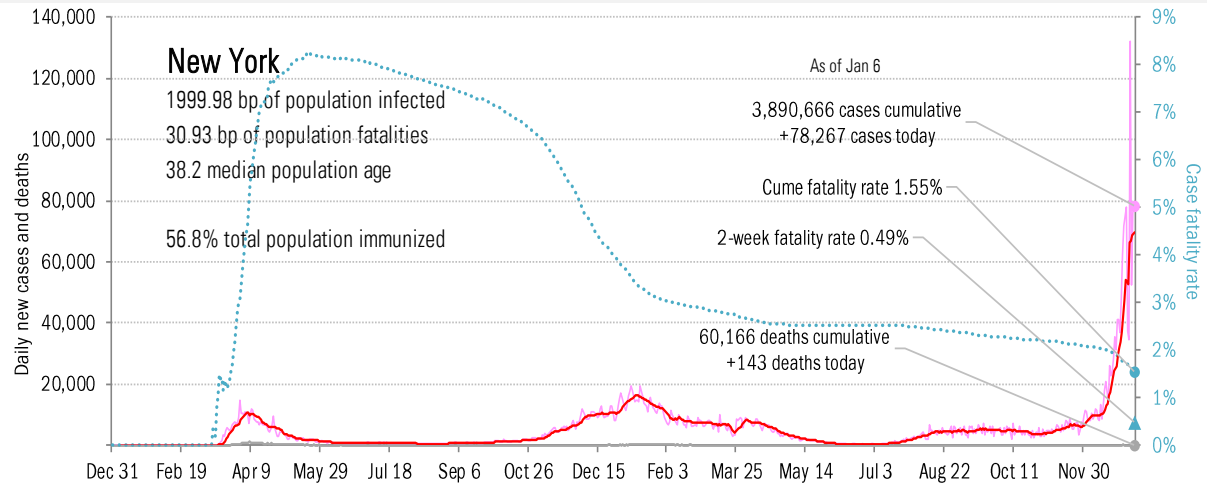
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

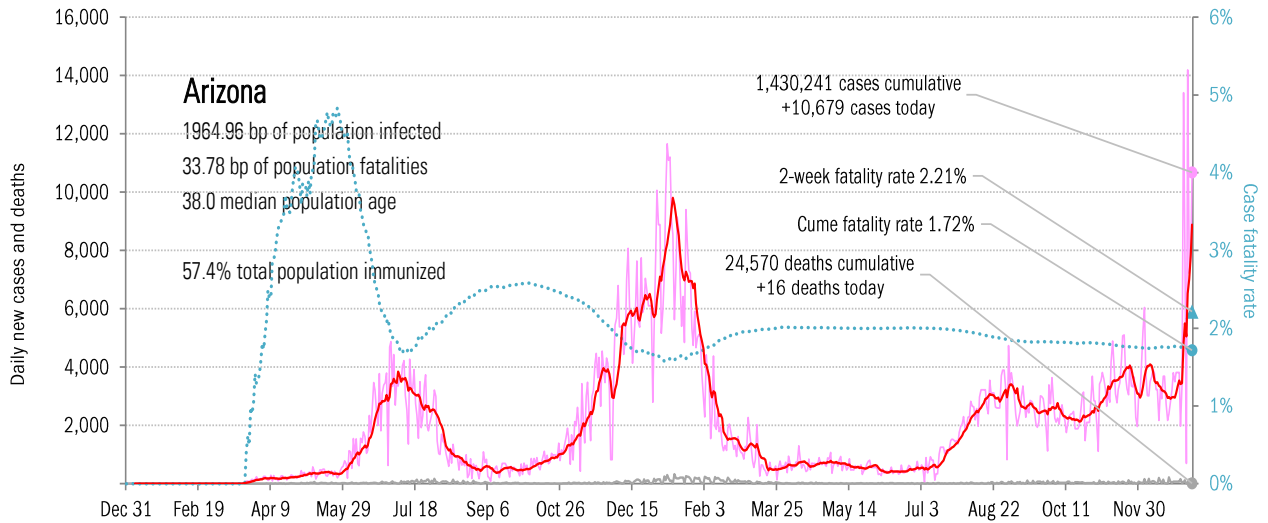
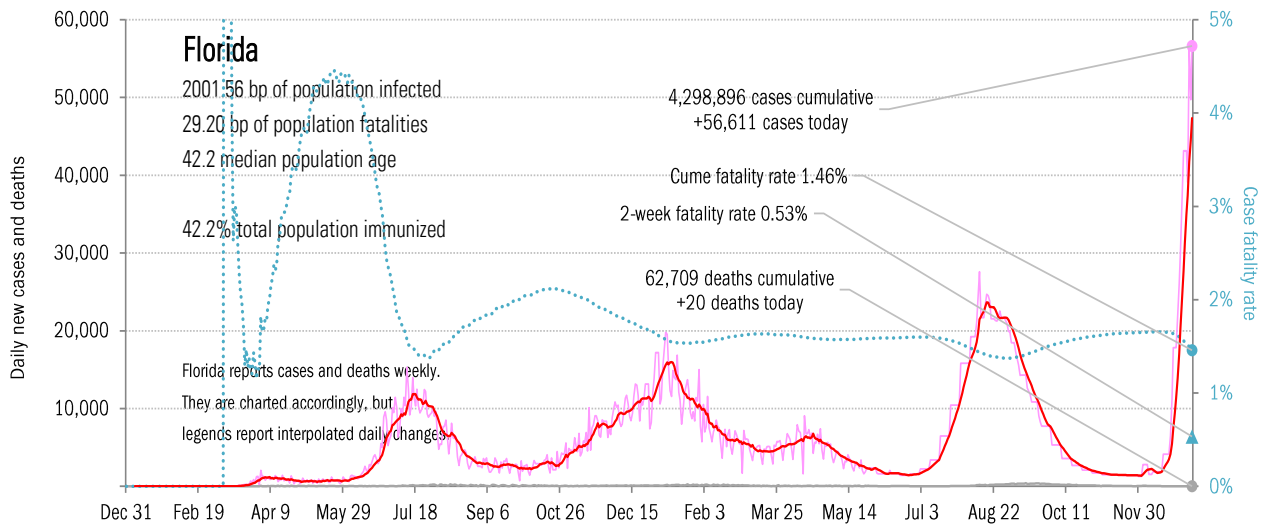
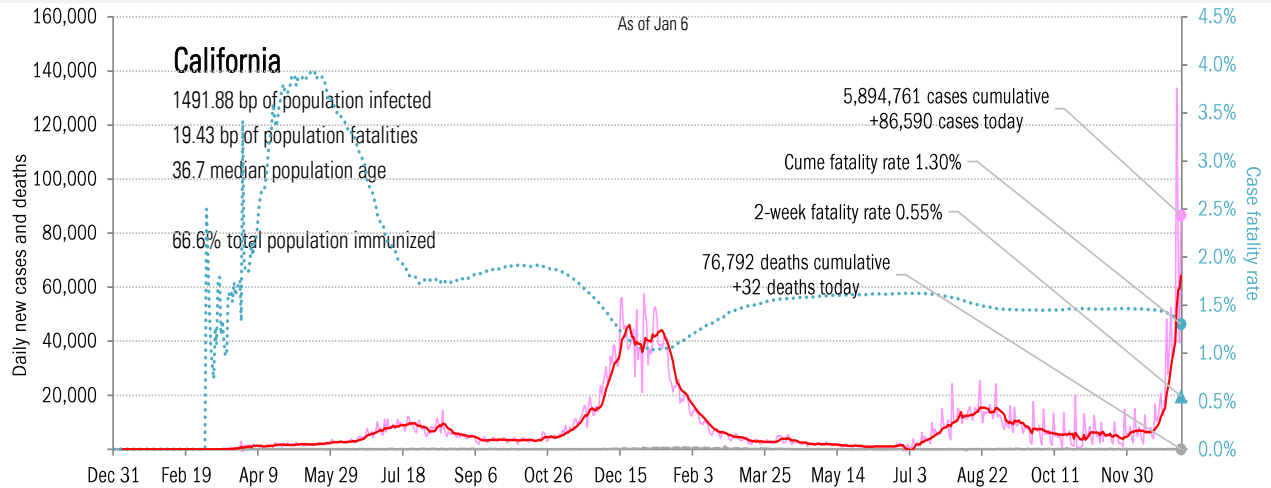
Cases: 7-day average and daily Deaths: Daily



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

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

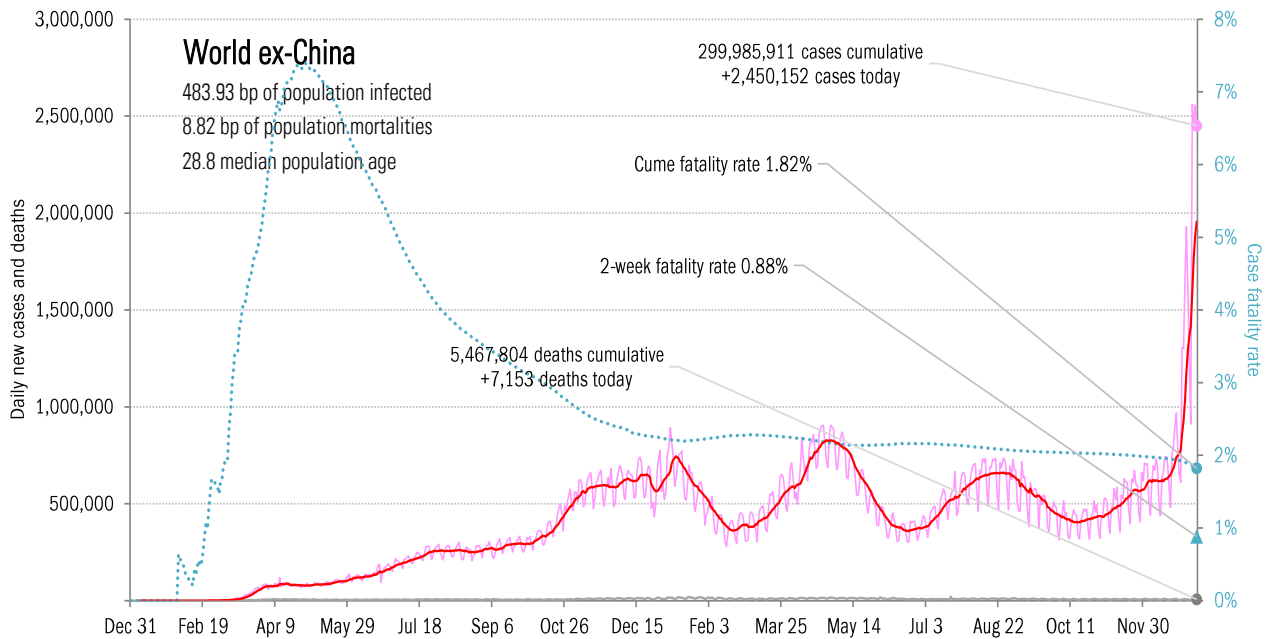
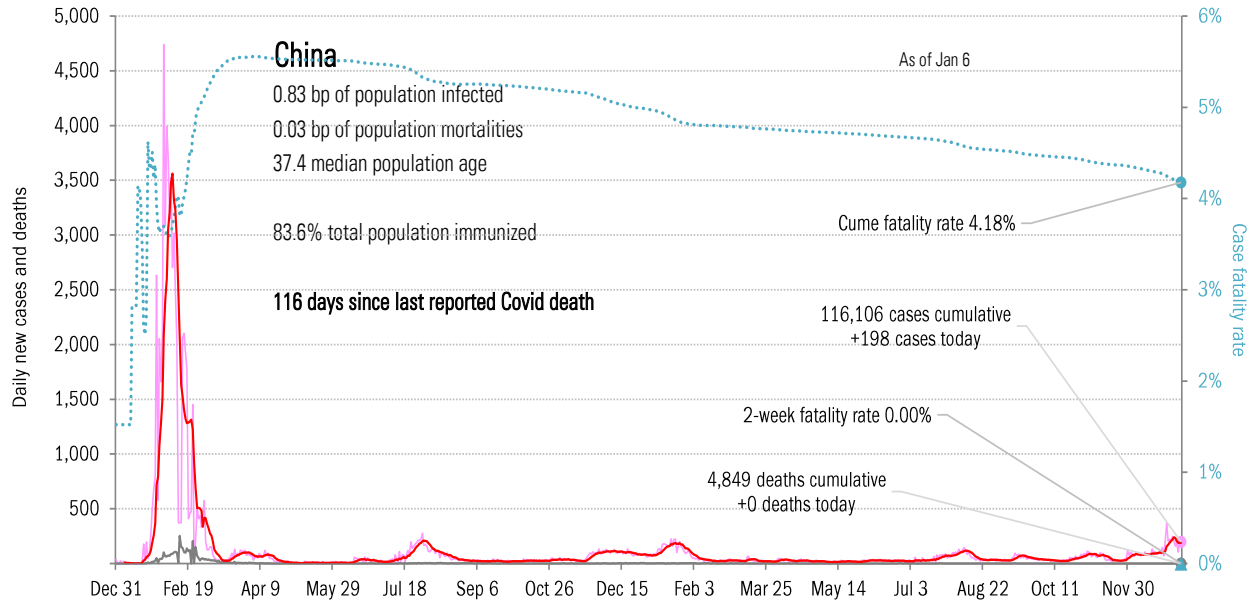
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

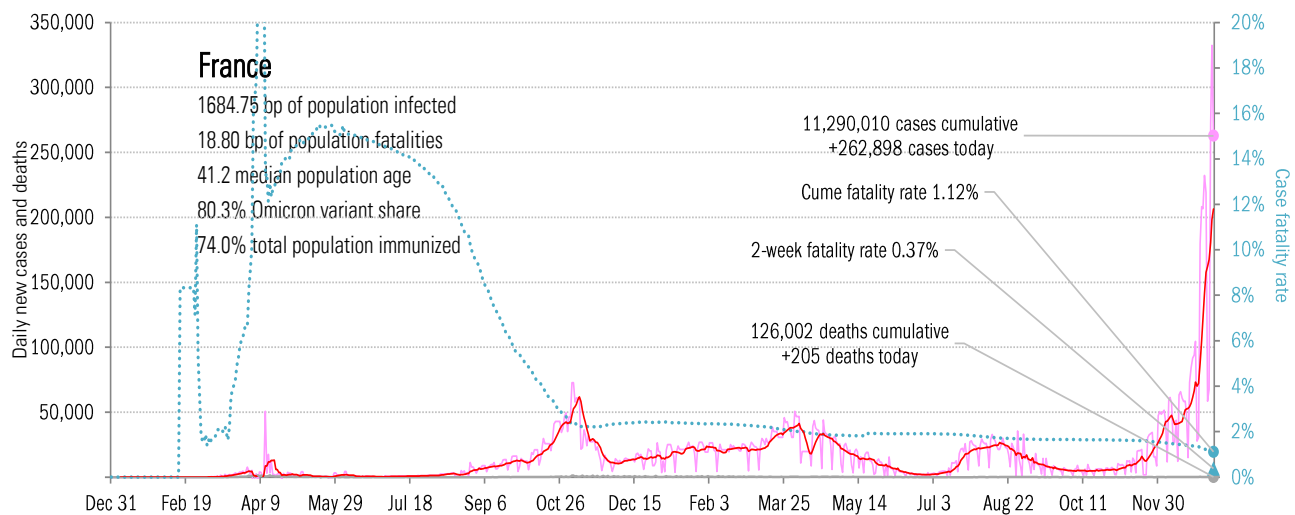
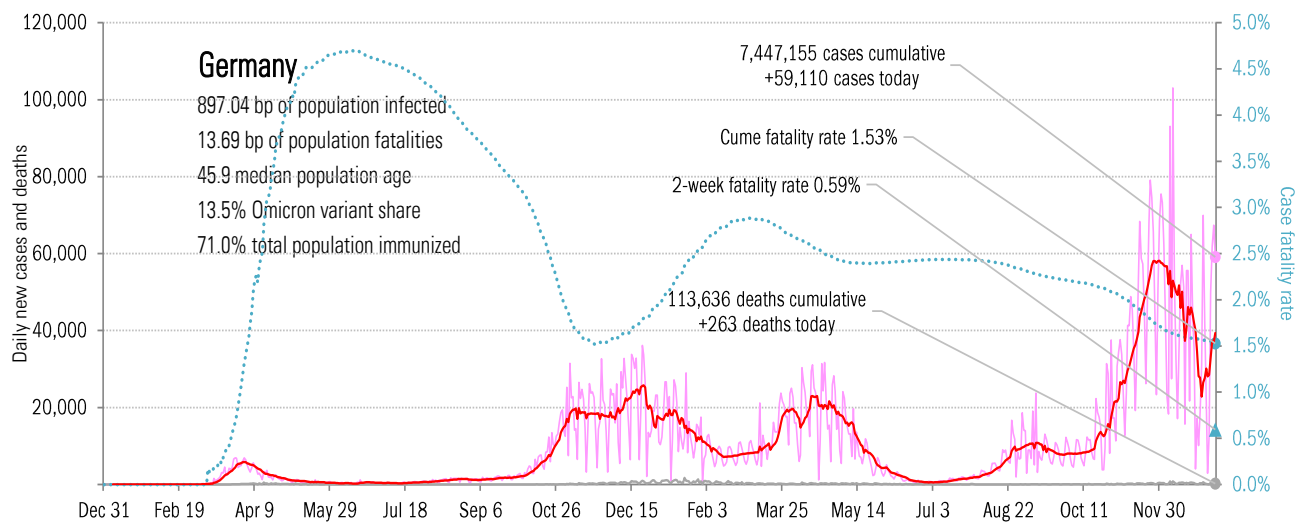
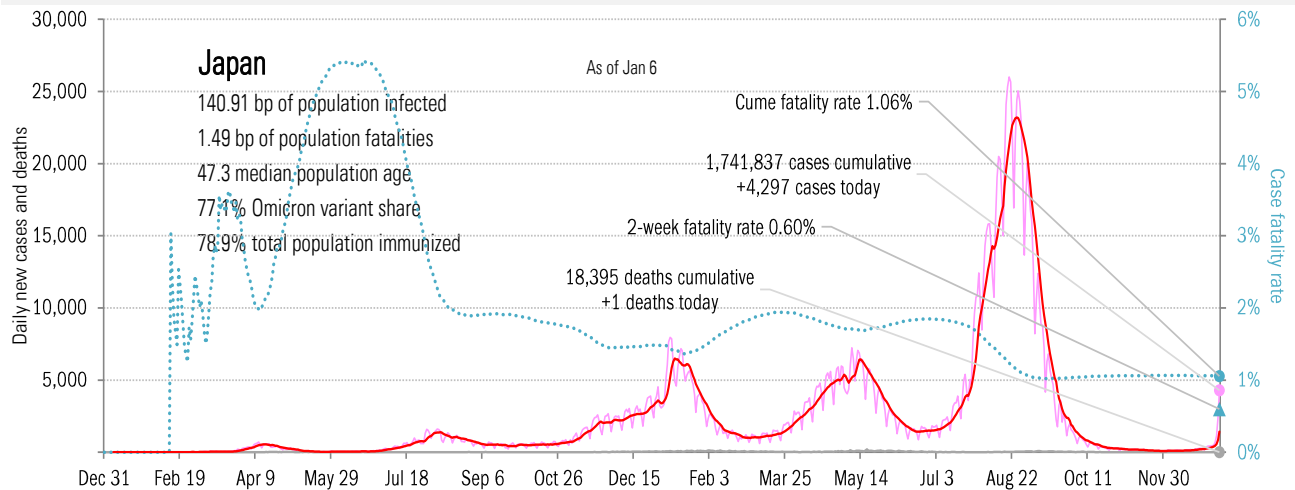
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

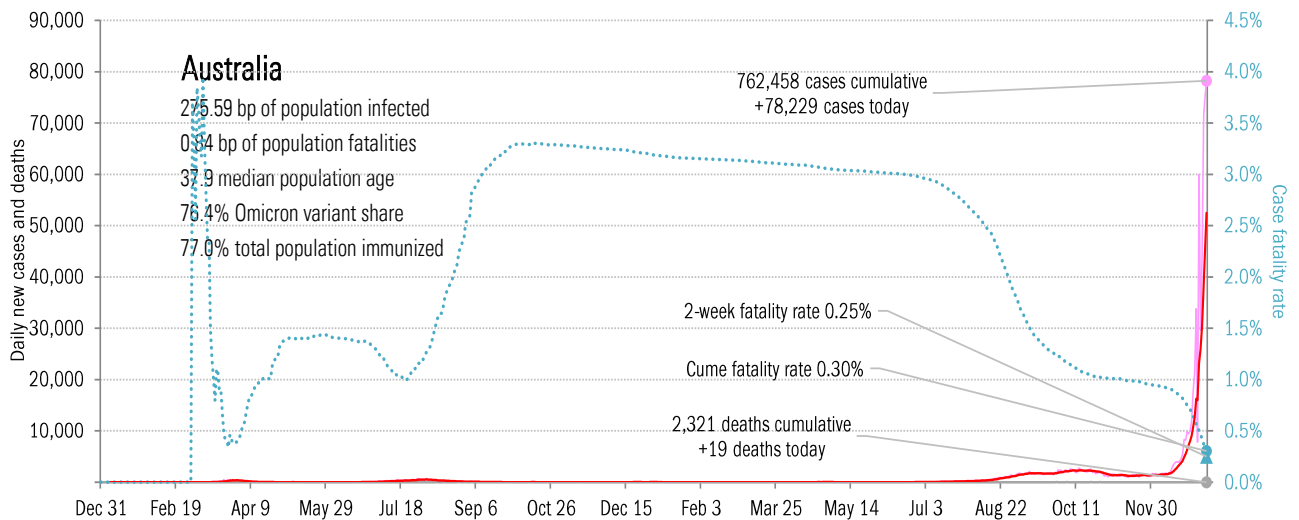
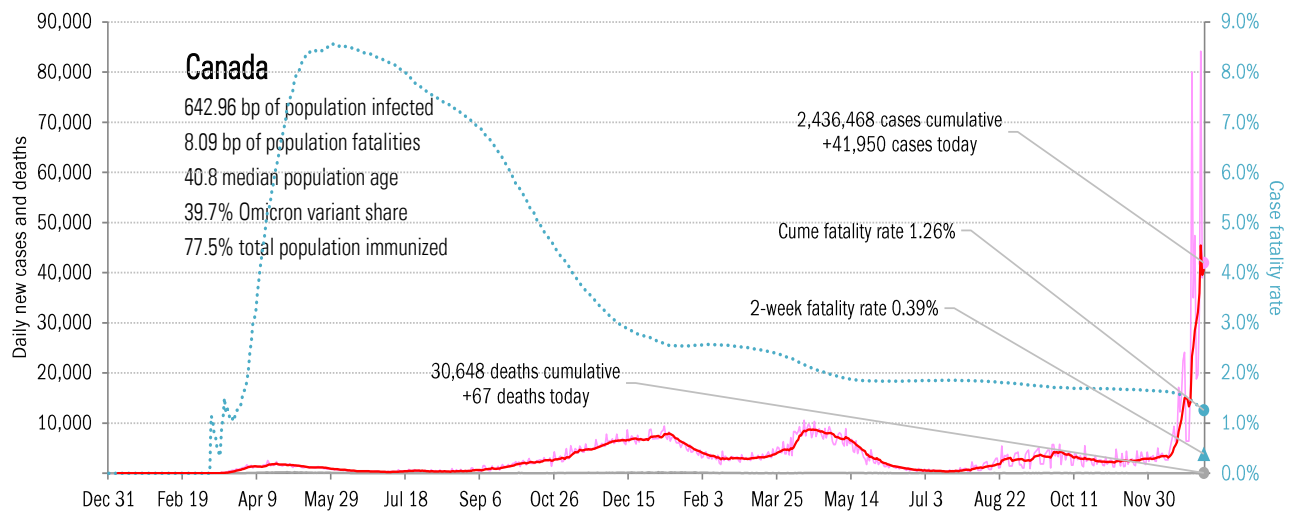
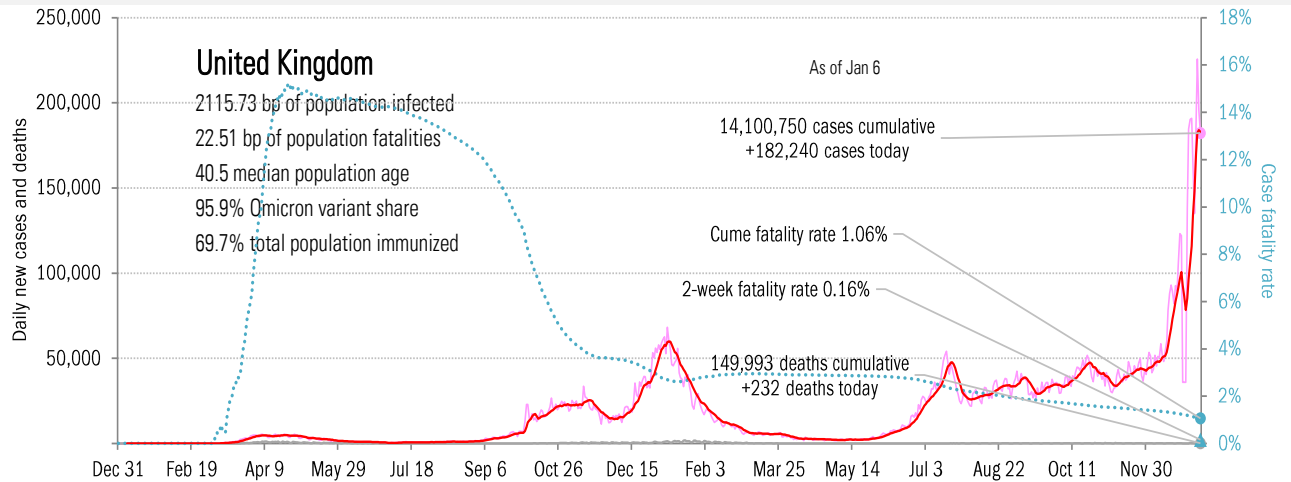
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

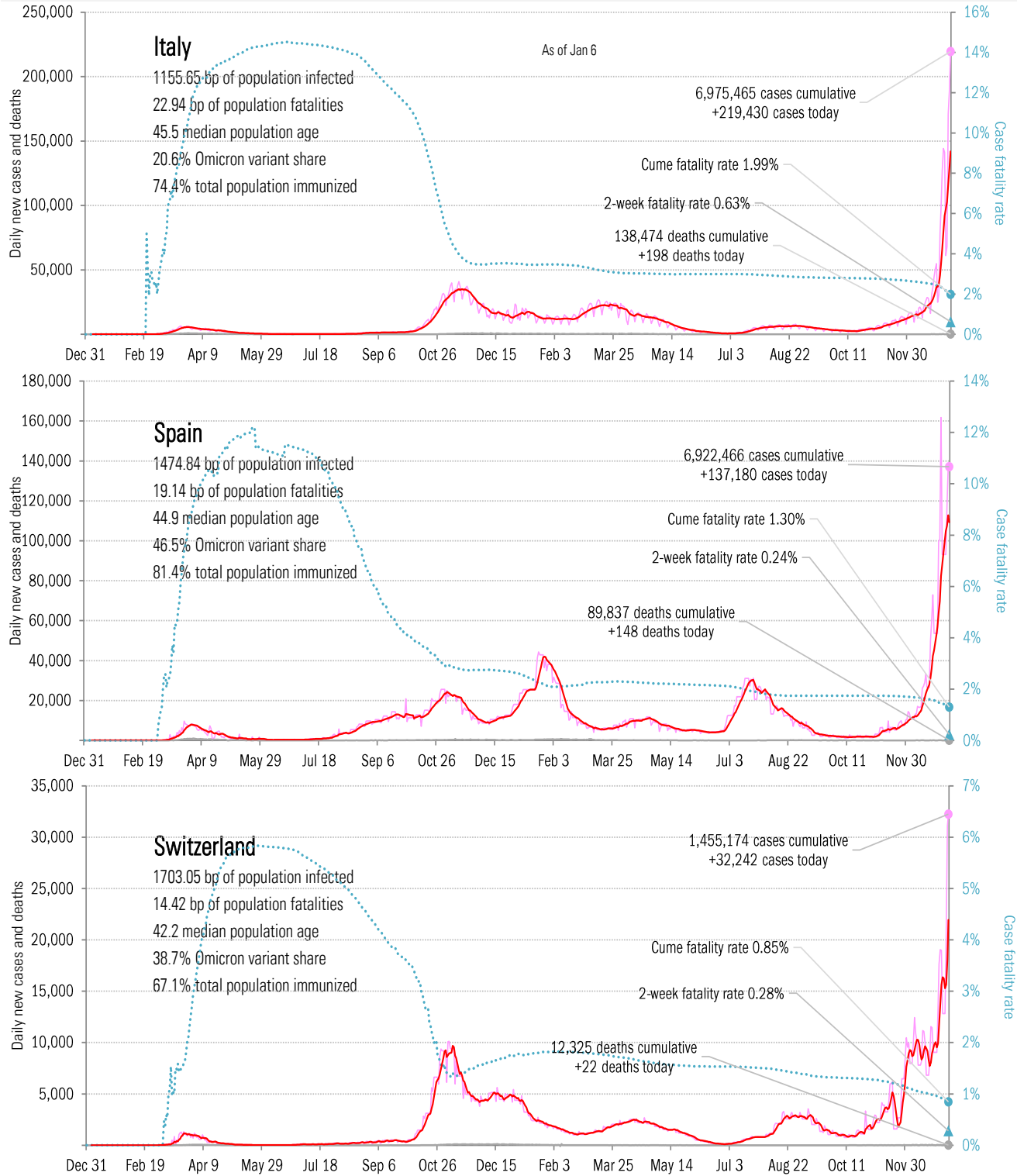
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

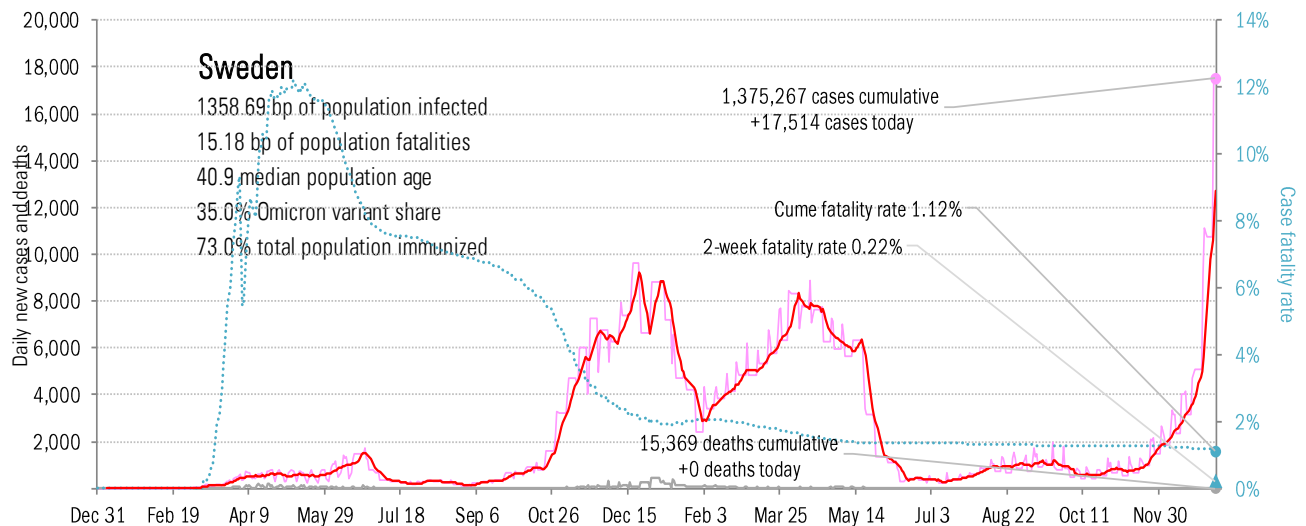
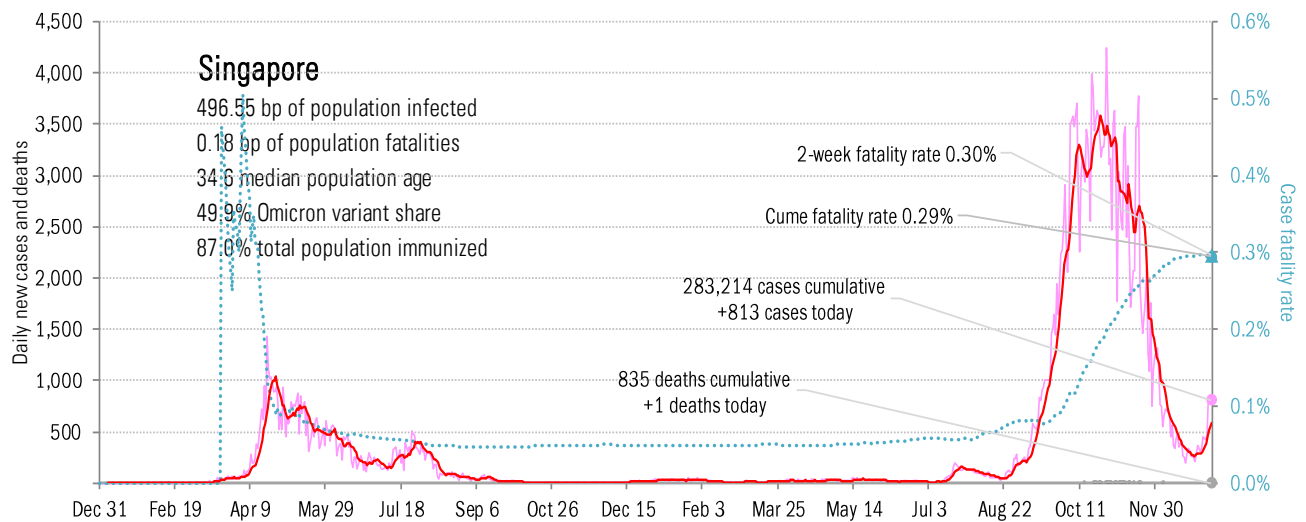
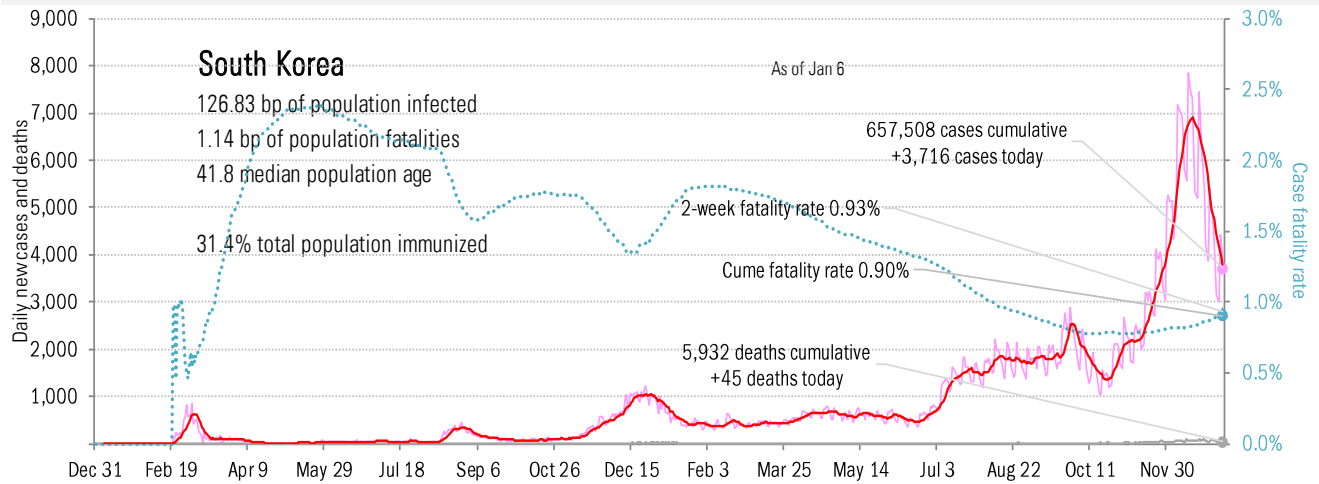
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

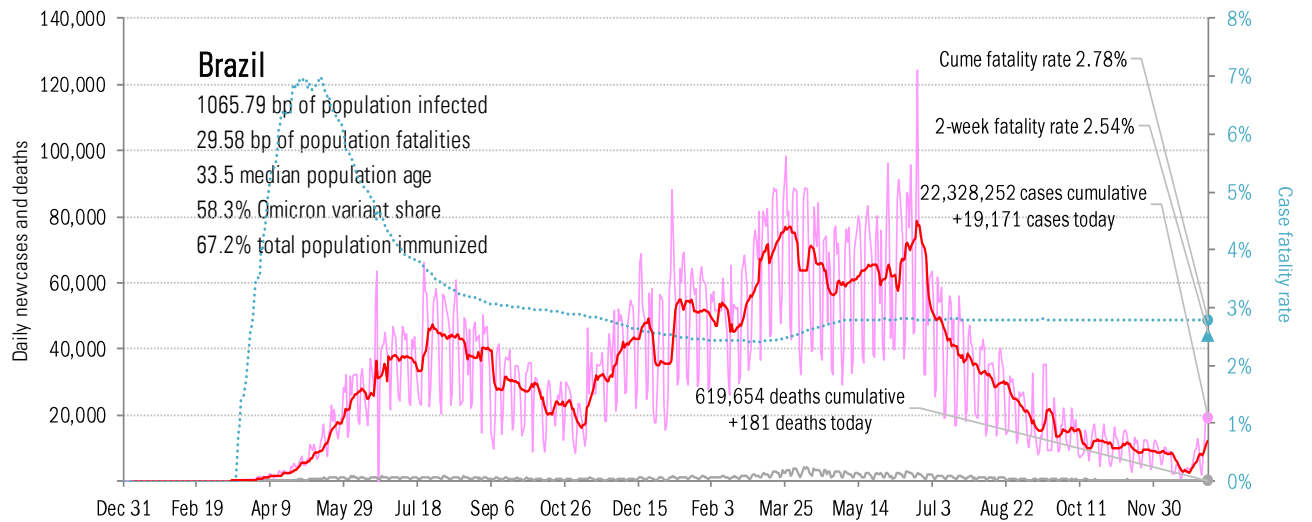
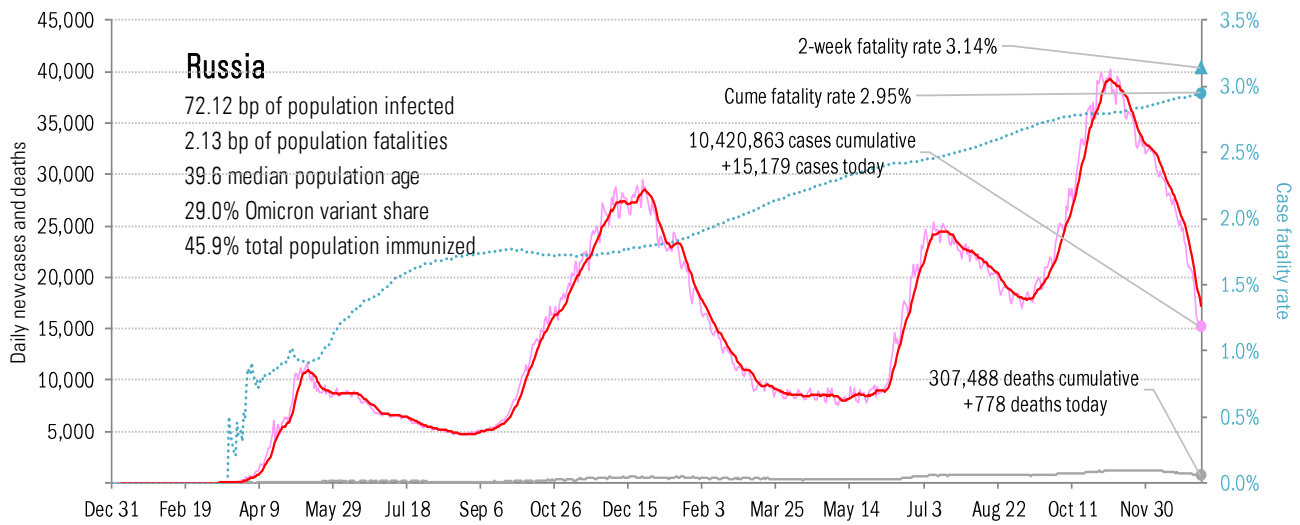
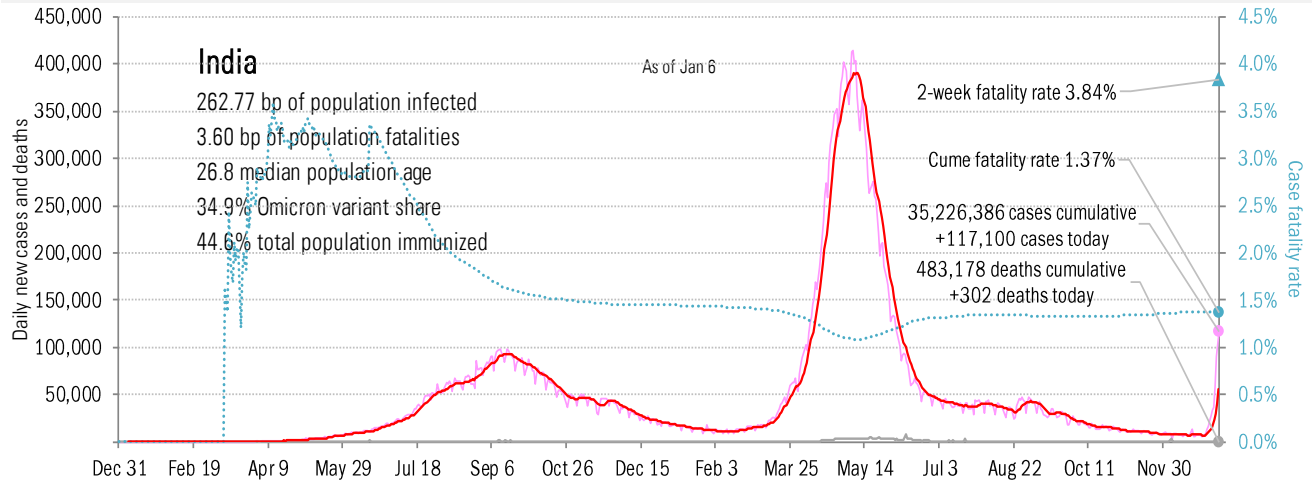
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

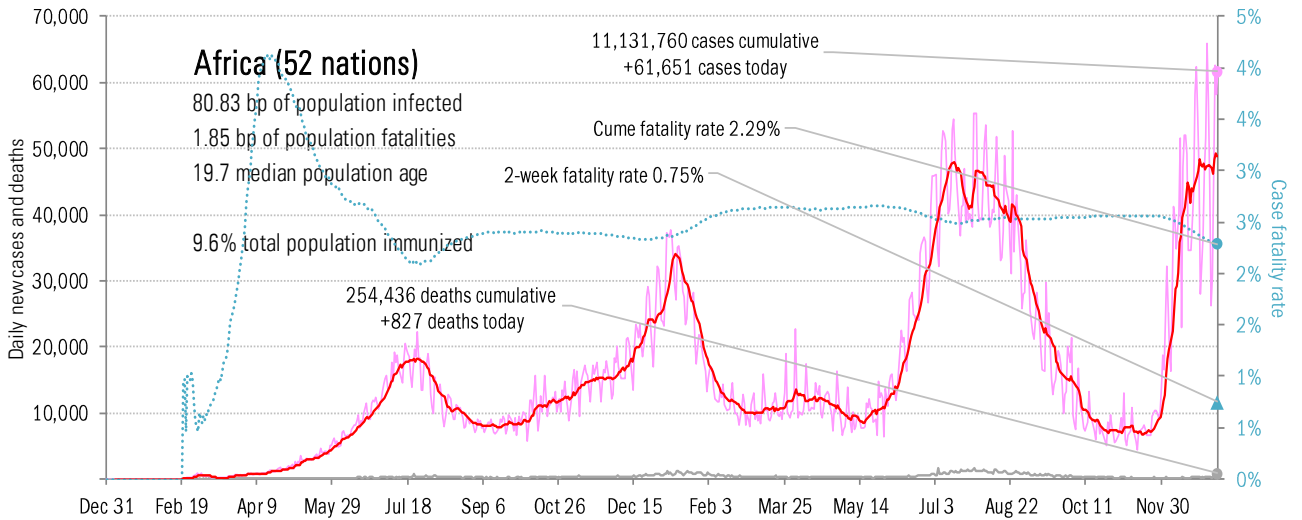
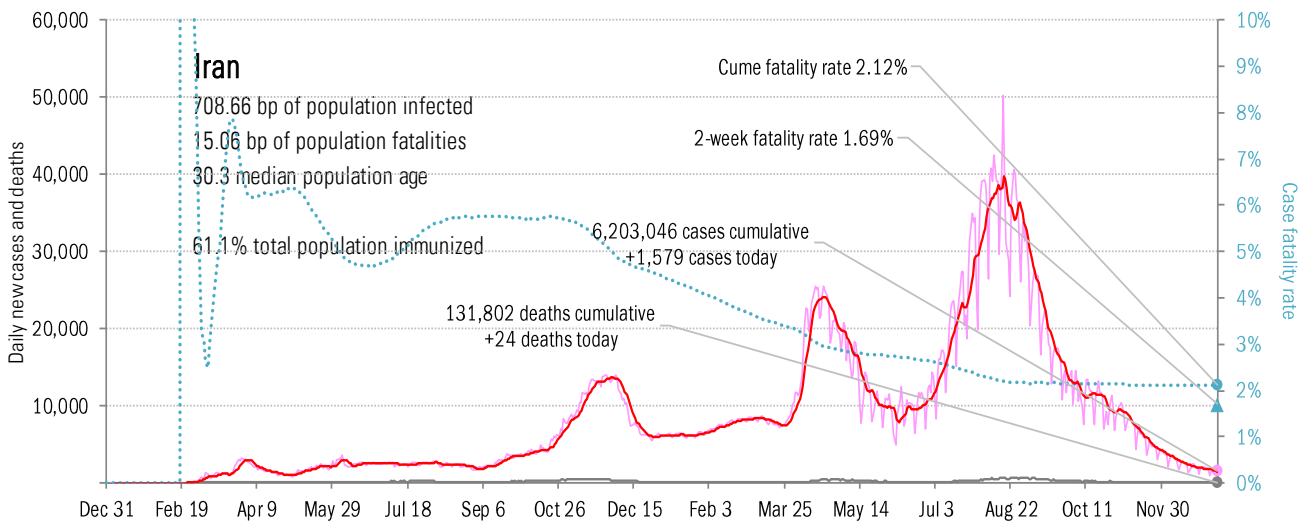
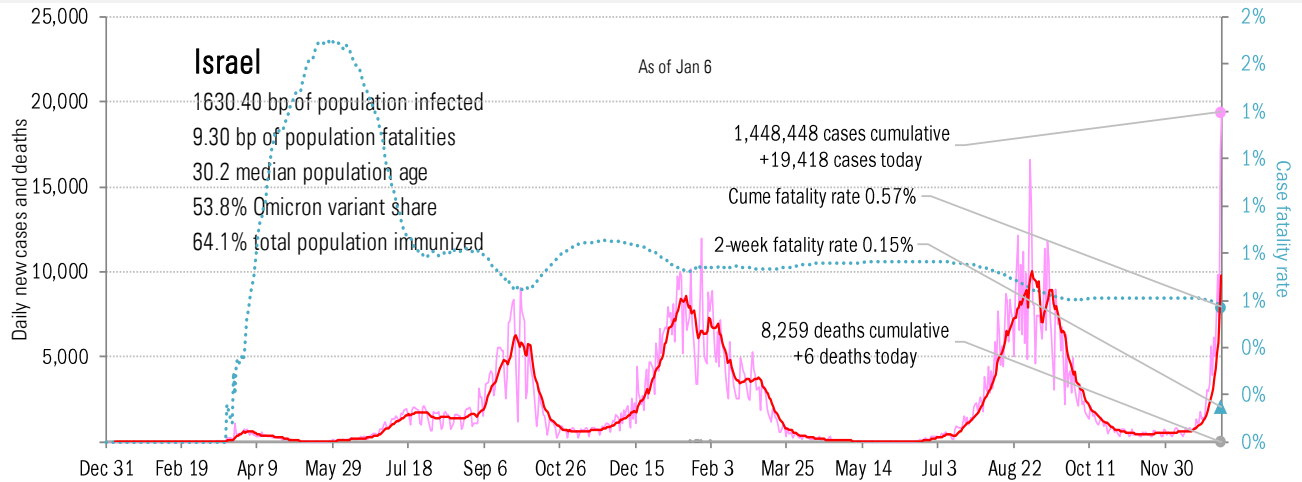
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

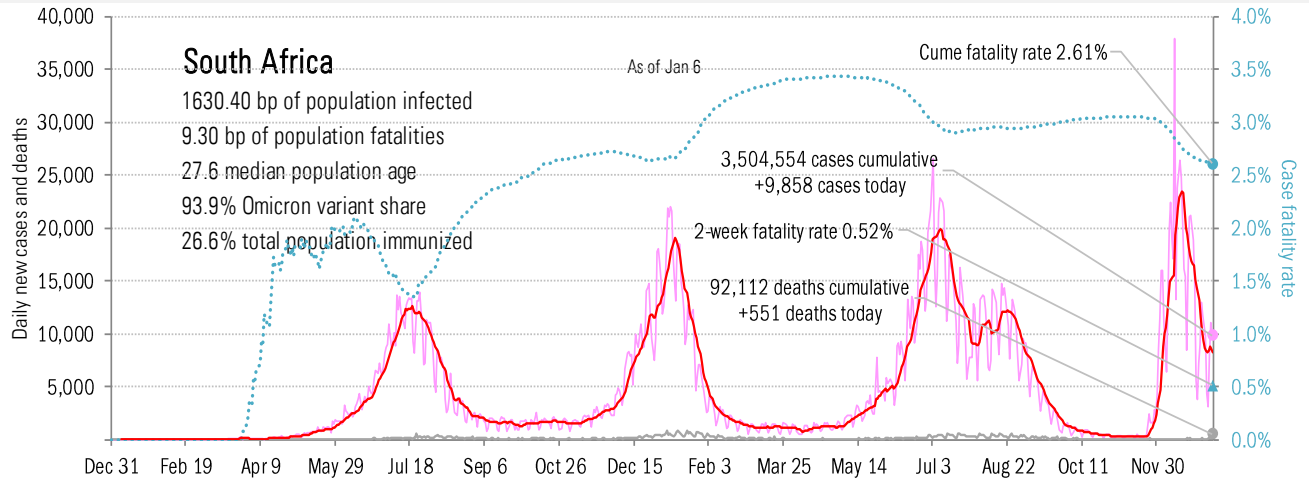
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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