

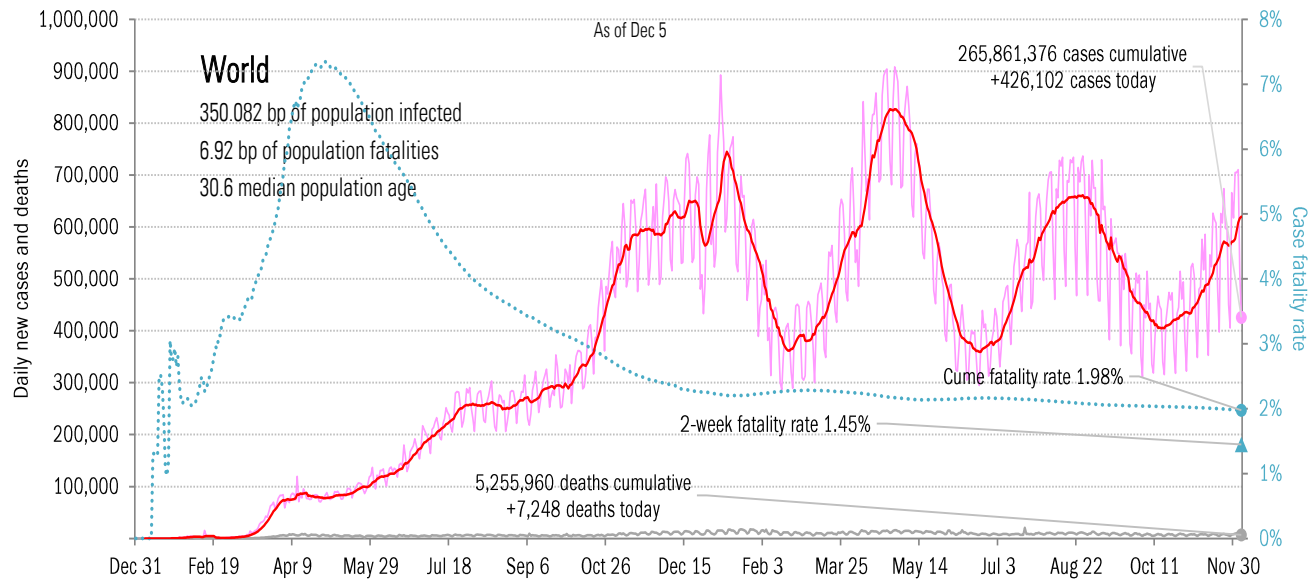
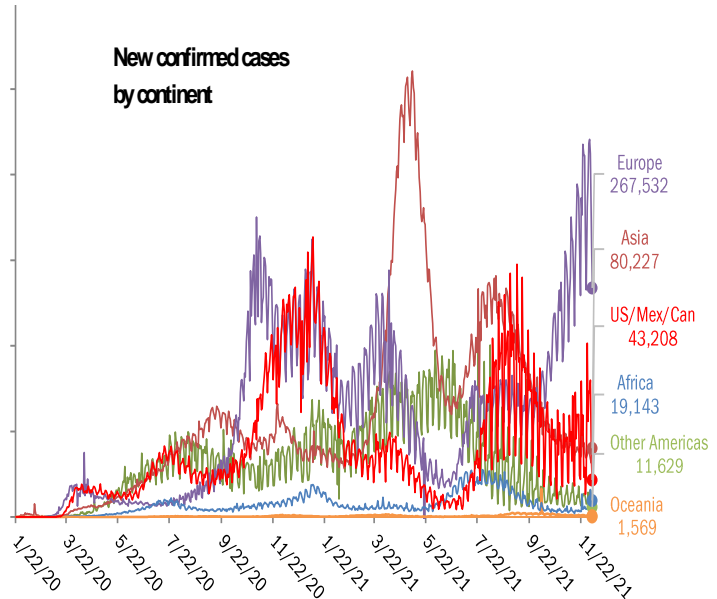
## Data Insights: Covid-2019 Monitor

Monday, December 6, 2021

### The global scorecard

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

| The worst ten countries |          |               |        |
|-------------------------|----------|---------------|--------|
| New cases               |          | New Deaths    |        |
| United Kingdom          | +43,361  | India         | +3,007 |
| France                  | +42,252  | Russia        | +1,176 |
| United States           | +37,015  | Ukraine       | +308   |
| Russia                  | +32,013  | Mexico        | +299   |
| Netherlands             | +23,125  | United States | +240   |
| Germany                 | +22,945  | Vietnam       | +199   |
| Poland                  | +22,394  | Turkey        | +185   |
| Turkey                  | +19,357  | Philippines   | +156   |
| India                   | +17,201  | Czechia       | +89    |
| Italy                   | +15,010  | Germany       | +81    |
| <b>+274,673</b>         |          | <b>+5,740</b> |        |
| World                   | +426,102 | World         | +7,248 |
| Top ten                 | 64%      | Top ten       | 79%    |



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

### For more information contact us:

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 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

Cases: 7-day average and daily Deaths: Daily

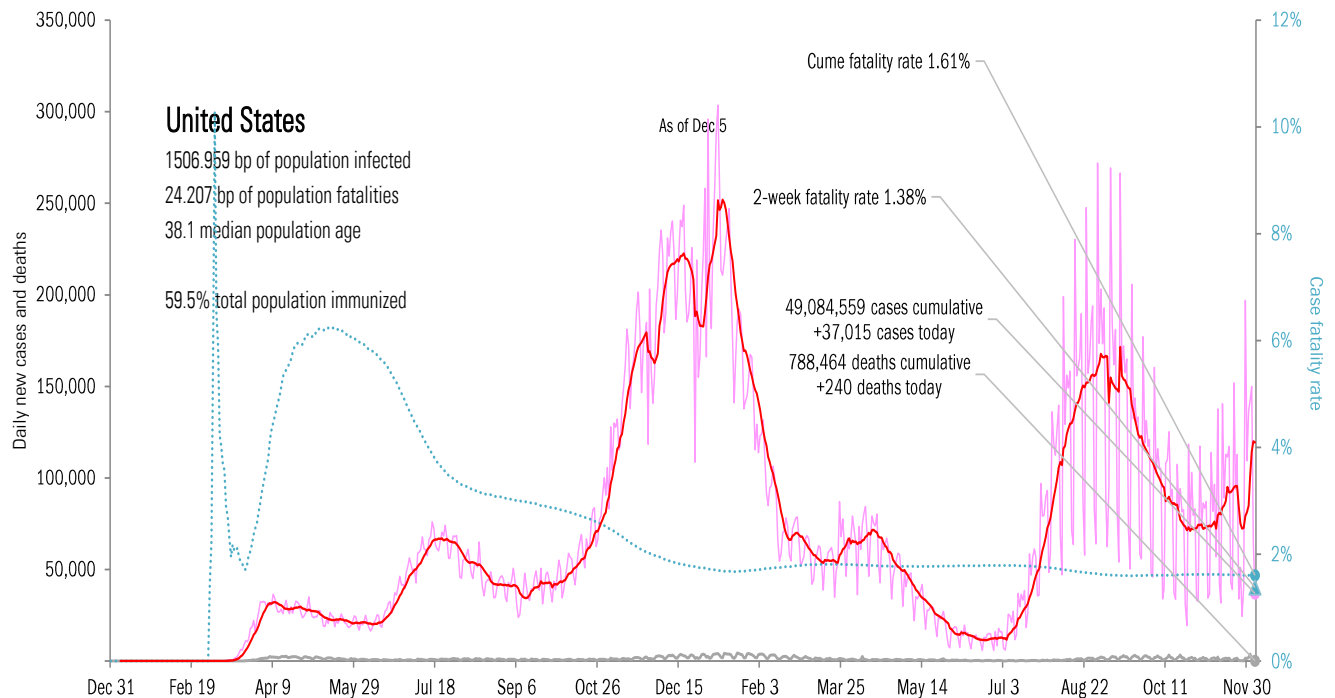
## The ten worst US states

| New cases  |         |  | New Deaths |      |  | New in hospital |       |  | Cum cases  |            |  | Cum deaths |         |  | Cum in hospital |           |  | Hospital use |     | ICU use |     |
|------------|---------|--|------------|------|--|-----------------|-------|--|------------|------------|--|------------|---------|--|-----------------|-----------|--|--------------|-----|---------|-----|
| NY         | +8,318  |  | FL         | +79  |  | GA              | +139  |  | CA         | 5,109,348  |  | CA         | 74,802  |  | TX              | 386,282   |  | RI           | 88% | NM      | 94% |
| PA         | +6,091  |  | PA         | +43  |  | IL              | +116  |  | TX         | 4,352,098  |  | TX         | 74,198  |  | FL              | 324,434   |  | MA           | 87% | RI      | 92% |
| CH         | +5,334  |  | NY         | +32  |  | WI              | +100  |  | FL         | 3,740,256  |  | FL         | 61,802  |  | CA              | 322,424   |  | PA           | 86% | VT      | 91% |
| AZ         | +3,820  |  | TX         | +29  |  | PA              | +99   |  | NY         | 2,777,942  |  | NY         | 57,757  |  | NY              | 174,965   |  | MD           | 85% | KY      | 90% |
| NJ         | +3,496  |  | AZ         | +28  |  | CH              | +92   |  | IL         | 1,835,076  |  | PA         | 33,902  |  | GA              | 163,856   |  | MO           | 84% | MI      | 88% |
| FL         | +2,794  |  | AR         | +18  |  | IN              | +90   |  | PA         | 1,779,151  |  | GA         | 30,655  |  | CH              | 138,198   |  | WV           | 84% | TX      | 87% |
| CA         | +1,631  |  | NJ         | +5   |  | VA              | +71   |  | CH         | 1,731,003  |  | IL         | 28,968  |  | PA              | 129,553   |  | WA           | 84% | MN      | 87% |
| MO         | +1,492  |  | CA         | +2   |  | KY              | +69   |  | GA         | 1,668,875  |  | NJ         | 28,457  |  | KY              | 115,453   |  | MI           | 83% | AL      | 86% |
| WV         | +833    |  | HI         | +1   |  | NY              | +69   |  | NC         | 1,544,544  |  | CH         | 26,851  |  | IL              | 112,690   |  | MN           | 83% | MO      | 86% |
| TX         | +763    |  | MO         | +1   |  | MO              | +66   |  | MI         | 1,517,325  |  | MI         | 26,108  |  | MI              | 106,183   |  | NY           | 82% | NE      | 86% |
| +34,572    |         |  | +238       |      |  | +911            |       |  | 26,055,618 |            |  | 443,500    |         |  | 1,974,038       |           |  |              |     |         |     |
| All states | +37,015 |  |            | +240 |  |                 | +1359 |  | All states | 49,084,559 |  |            | 788,464 |  |                 | 3,552,790 |  | All states   | 70% |         | 67% |
| Top ten    | 93%     |  |            | 99%  |  |                 | 67%   |  | Top ten    | 53%        |  |            | 56%     |  |                 | 56%       |  | Median       | 77% |         | 78% |

Some states not reporting

## Five most improved US states

| Fewer daily cases |        | Fewer new deaths |      | Fewer new hospitalizations |      | Most pop immunity growth |        |
|-------------------|--------|------------------|------|----------------------------|------|--------------------------|--------|
| IA                | -4,563 | AZ               | -136 | TX                         | -154 | CT                       | +40 bp |
| KS                | -4,502 | PA               | -70  | NC                         | -94  | CO                       | +30 bp |
| MO                | -3,281 | TX               | -33  | CA                         | -33  | VT                       | +30 bp |
| PA                | -3,173 | KS               | -25  | AZ                         | -20  | AR                       | +20 bp |
| CH                | -2,459 | CA               | -17  | MN                         | -17  | CA                       | +20 bp |

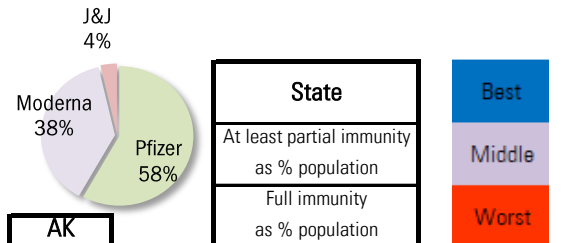


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

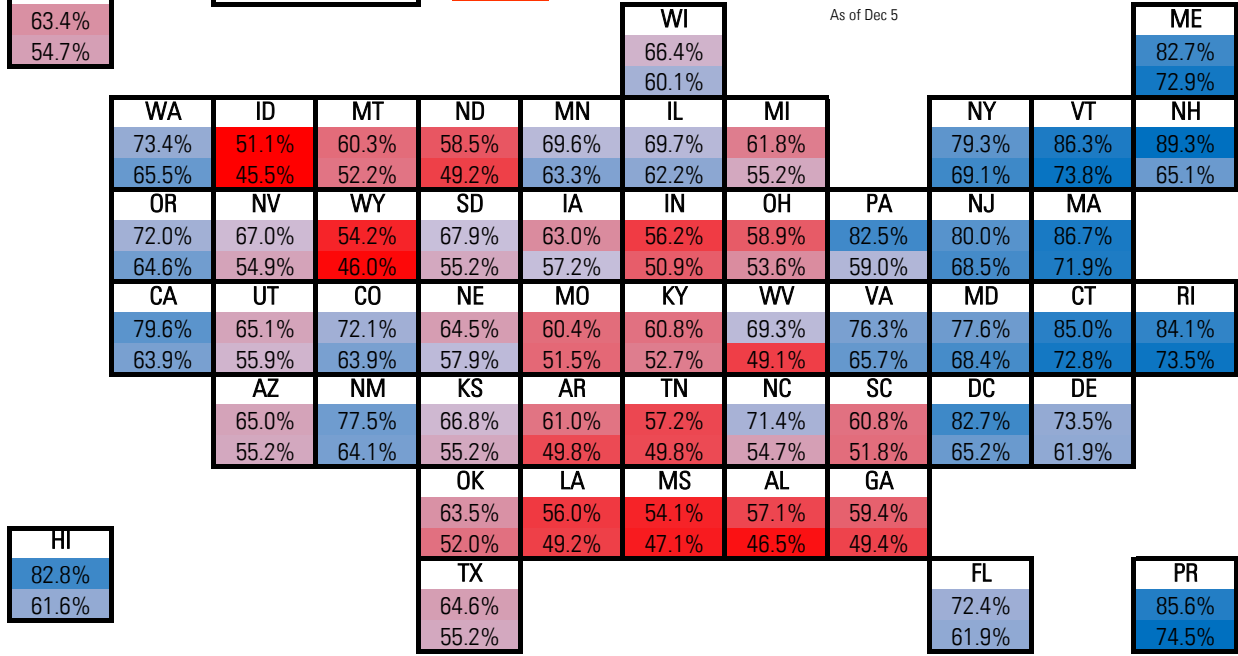
| Administered     | Cumulative      | Today          | Immunity      | Full         | Partial                 |
|------------------|-----------------|----------------|---------------|--------------|-------------------------|
| Doses            | 483,041,646     | +1.819 million | US            | 59.5%        | 71.0%                   |
| Boosters         | 47,088,018      | +1.030 million | UK            | 68.2%        | 74.9%                   |
|                  | <b>One dose</b> | <b>% Pop</b>   | <b>Immune</b> | <b>% pop</b> | <b>New immune today</b> |
| Total population | 241,581,599     | 72%            | 204,058,032   | 61%          | +0.374 million          |
| Age 12 to 17     | 14,764,753      | 62%            | 12,369,558    | 52%          | +0.018 million          |
| Age 18 to 64     | 163,827,212     | 80%            | 140,582,720   | 69%          | +0.128 million          |
| Age 65 and over  | 57,229,639      | 100%           | 49,043,235    | 89%          | +0.023 million          |

|           |       |       |
|-----------|-------|-------|
| France    | 70.0% | 77.0% |
| Spain     | 80.6% | 82.2% |
| Germany   | 68.4% | 71.3% |
| Italy     | 73.1% | 78.5% |
| Australia | 73.7% | 78.0% |
| Israel    | 62.2% | 68.6% |
| Canada    | 76.4% | 81.0% |
| Japan     | 77.5% | 79.3% |
| Africa    | 7.5%  | 11.3% |
| India     | 34.3% | 57.5% |
| Brazil    | 64.0% | 76.9% |
| China     | 76.9% | 84.8% |

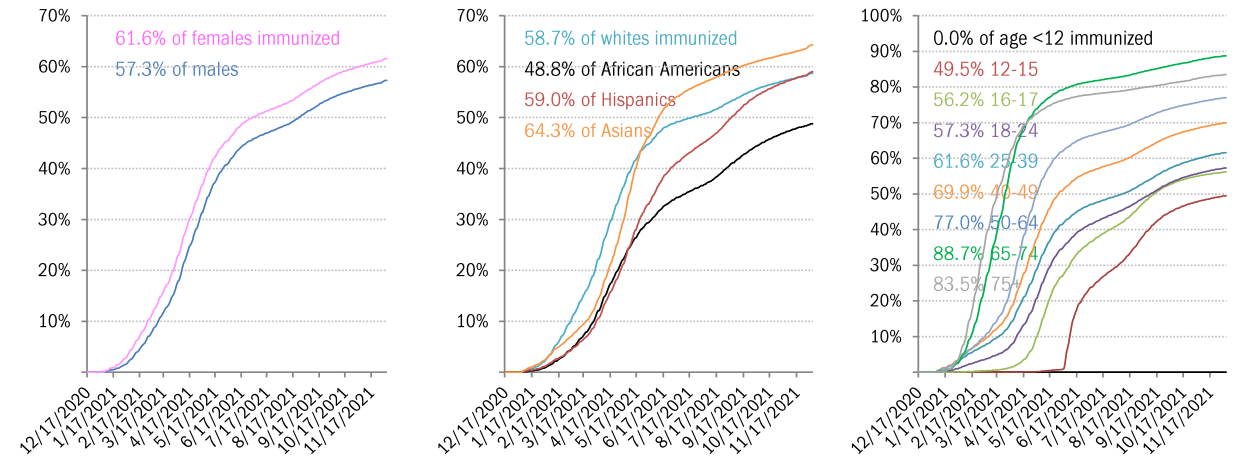


Every American >18 immunized in **65 days** by Feb 8, 2022  
 73.3% of population >18 immunized  
 17.3% previously tested positive  
**90.5%** vs 60% adult herd immunity

Global data differs due to sources, timing



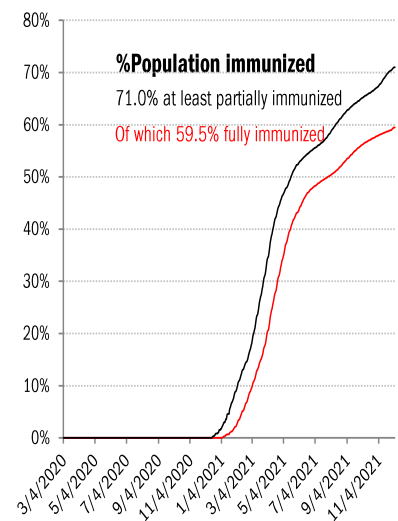
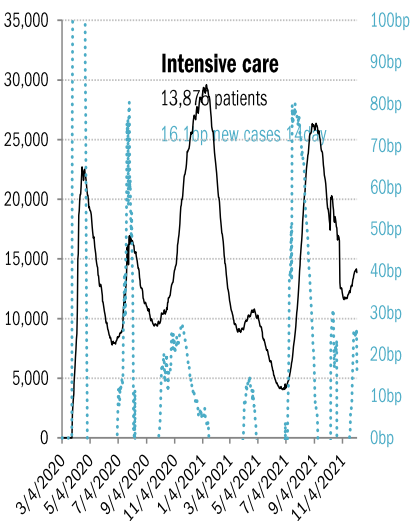
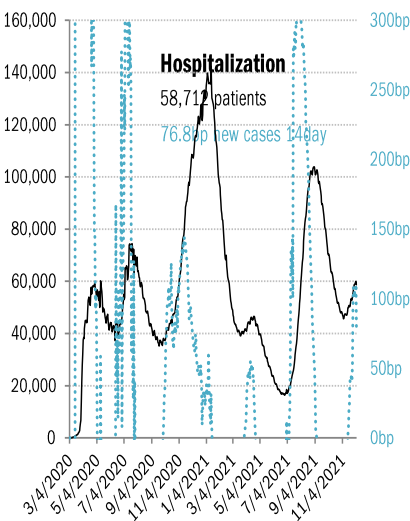
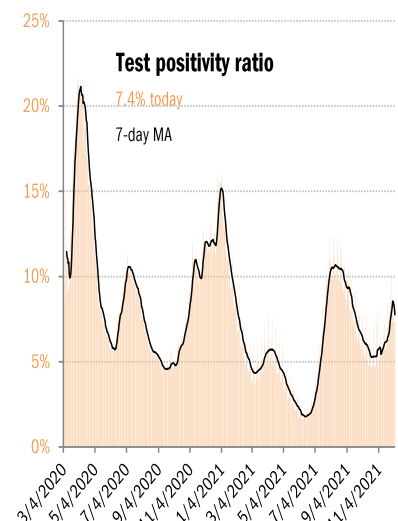
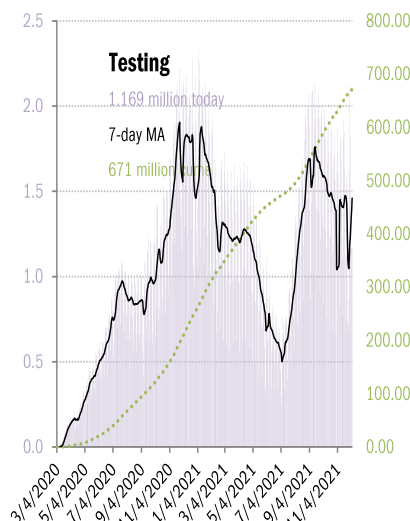
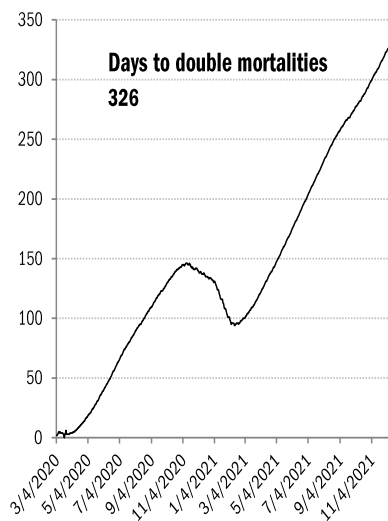
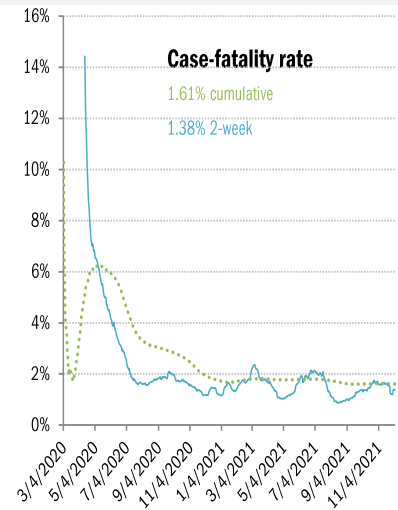
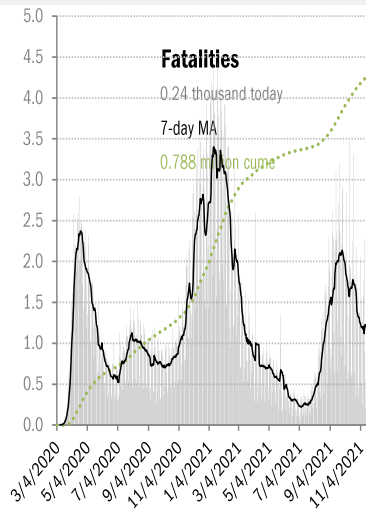
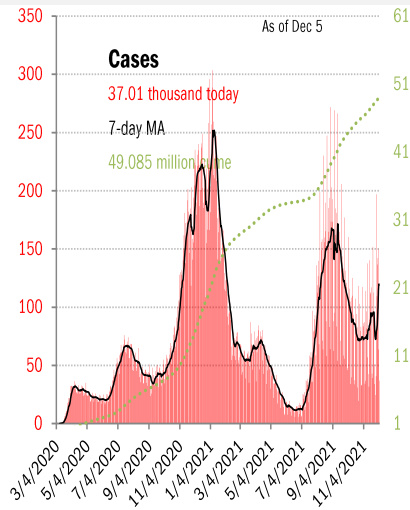
## The demographics of US vaccination



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

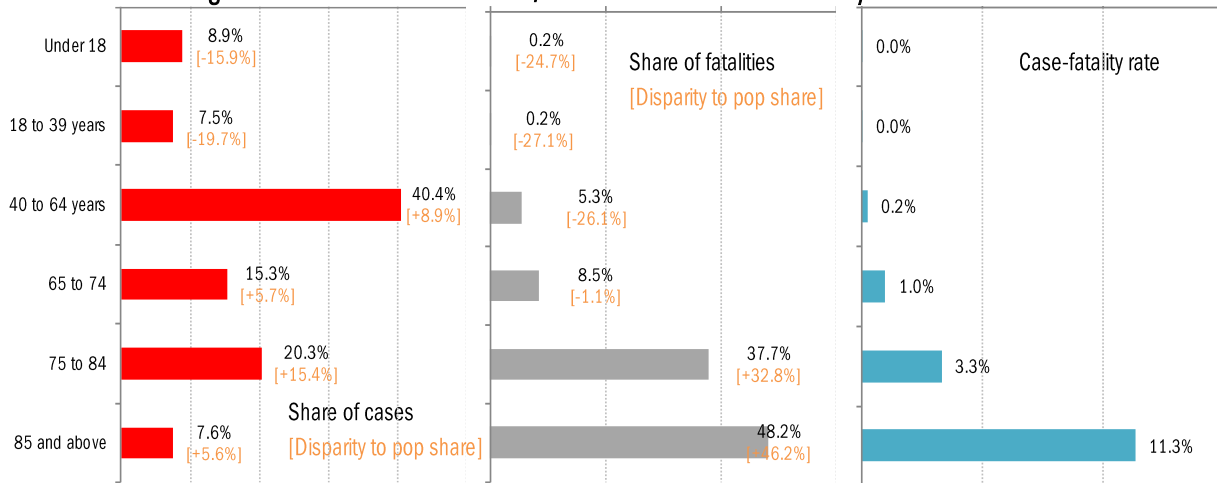
# US deep-dive

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

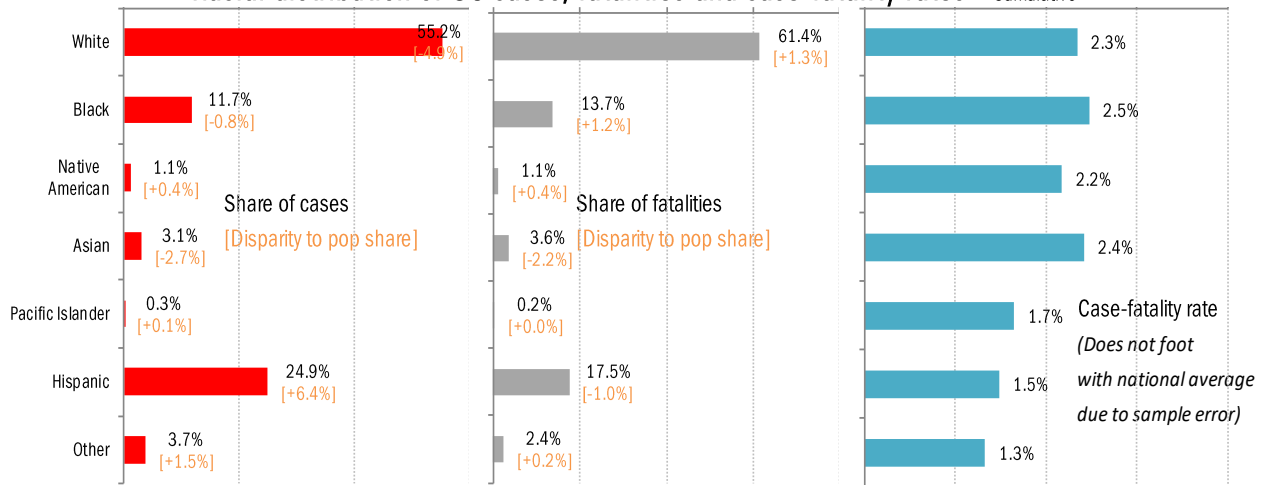


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

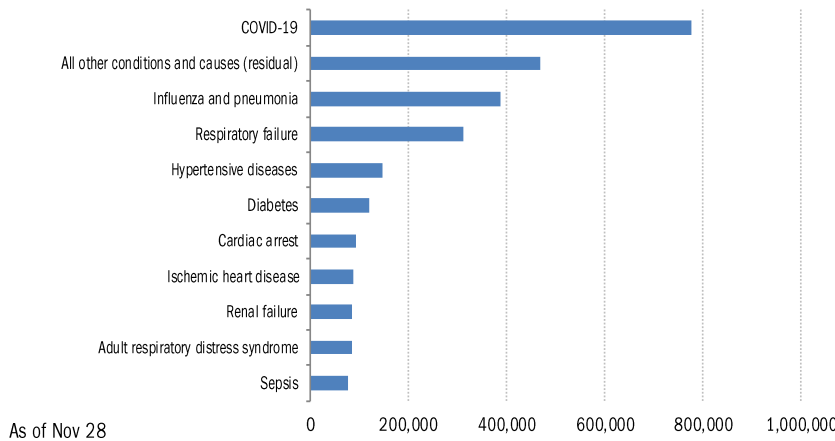


Racial distribution of US cases, fatalities and case-fatality rates



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

[Omicron variant of SARS-CoV-2 harbors a unique insertion mutation of putative viral or human genomic origin](#)

A.J. Venkatakrishnan  
*OSF Preprints*  
December 2, 2021

[Omicron variant may have picked up a piece of common-cold virus: experts](#)

Jackie Salo  
*New York Post*  
December 5, 2021

[Before Even Receiving a Name, Omicron Could Have Spread in New York and the Country](#)

Joseph Goldstein, Julie Bosman, Kimiko de Freytas-Tamura and Roni Caryn Rabin  
*New York Times*  
December 5, 2021

[What Spreads Faster Than Covid? Vaccination.](#)

Holman W. Jenkins, Jr.  
*Wall Street Journal*  
December 3, 2021

[Murder and Mandates in Chicago](#)

*Wall Street Journal*  
December 5, 2021

[Mrna COVID Vaccines Dramatically Increase Endothelial Inflammatory Markers and ACS Risk as Measured by the PULS Cardiac Test: a Warning](#)

Steven R Gundry  
*Circulation*  
November 8, 2021

[Twitter Censors Links to American Heart Association over Vaccine Research](#)

Allum Bokhari  
*Breitbart*  
December 2, 2021

## Meme of the day



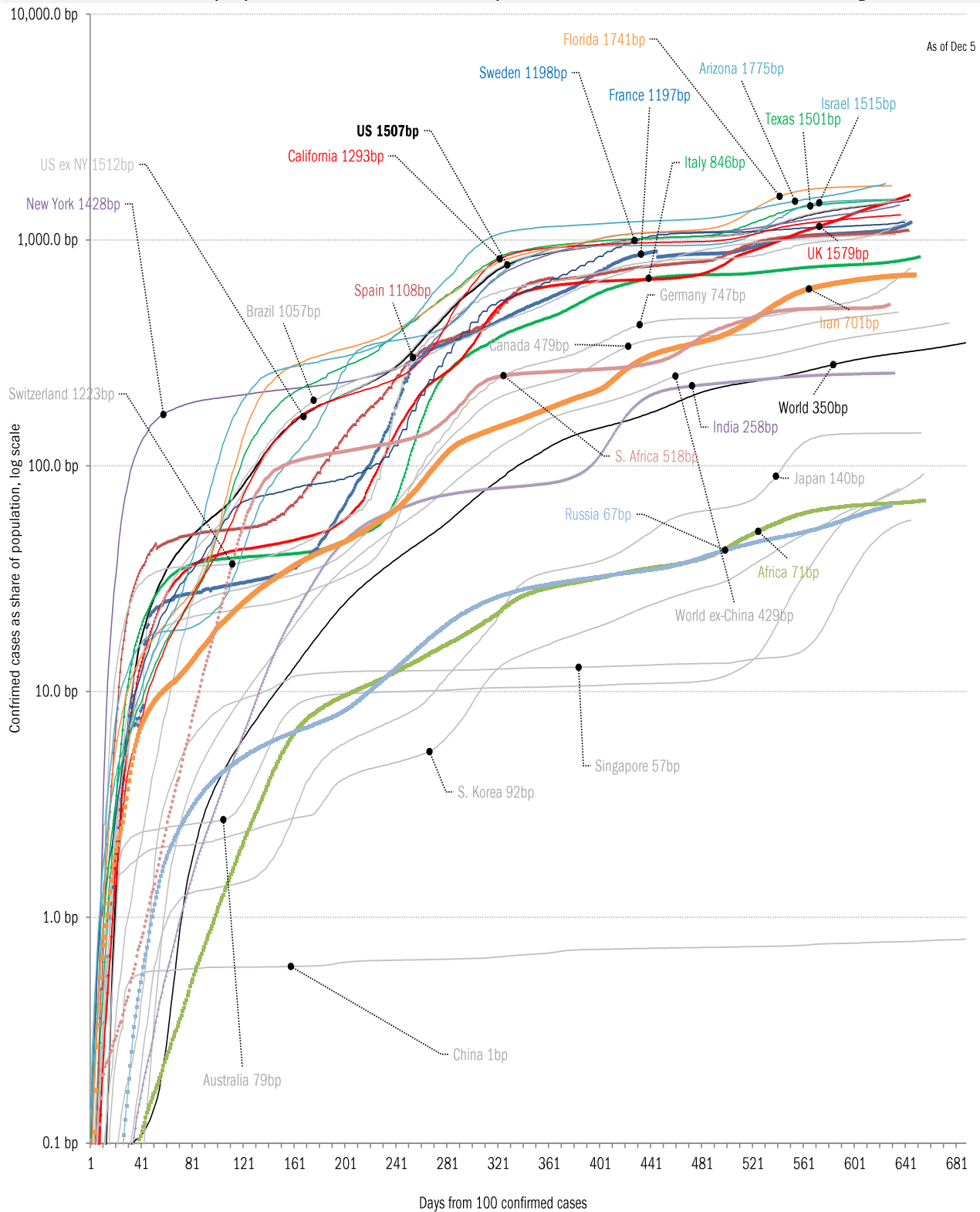
**thebradfordfile**  
@thebradfordfile



From what I can tell the "I'm over it" variant is spreading across America.

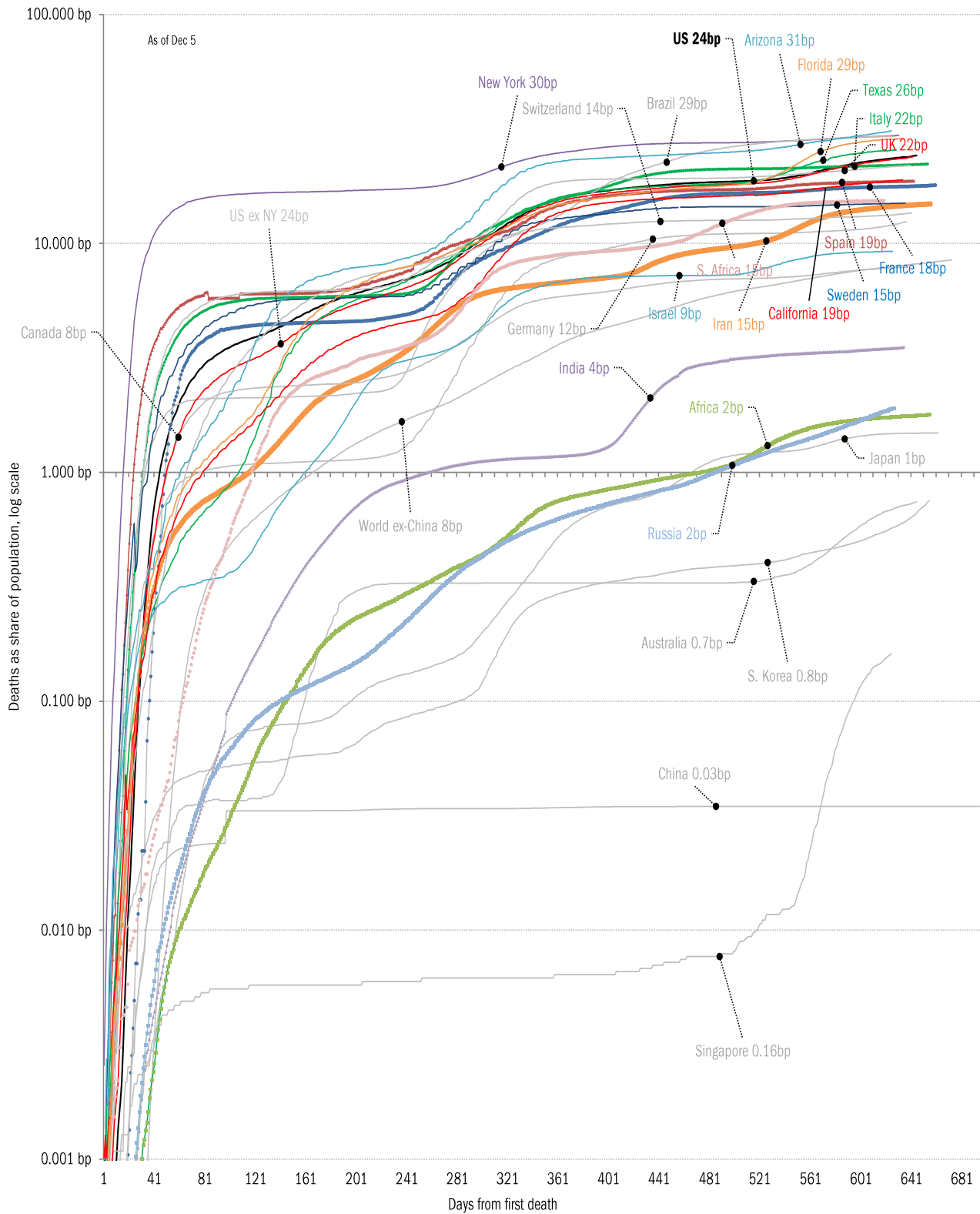
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



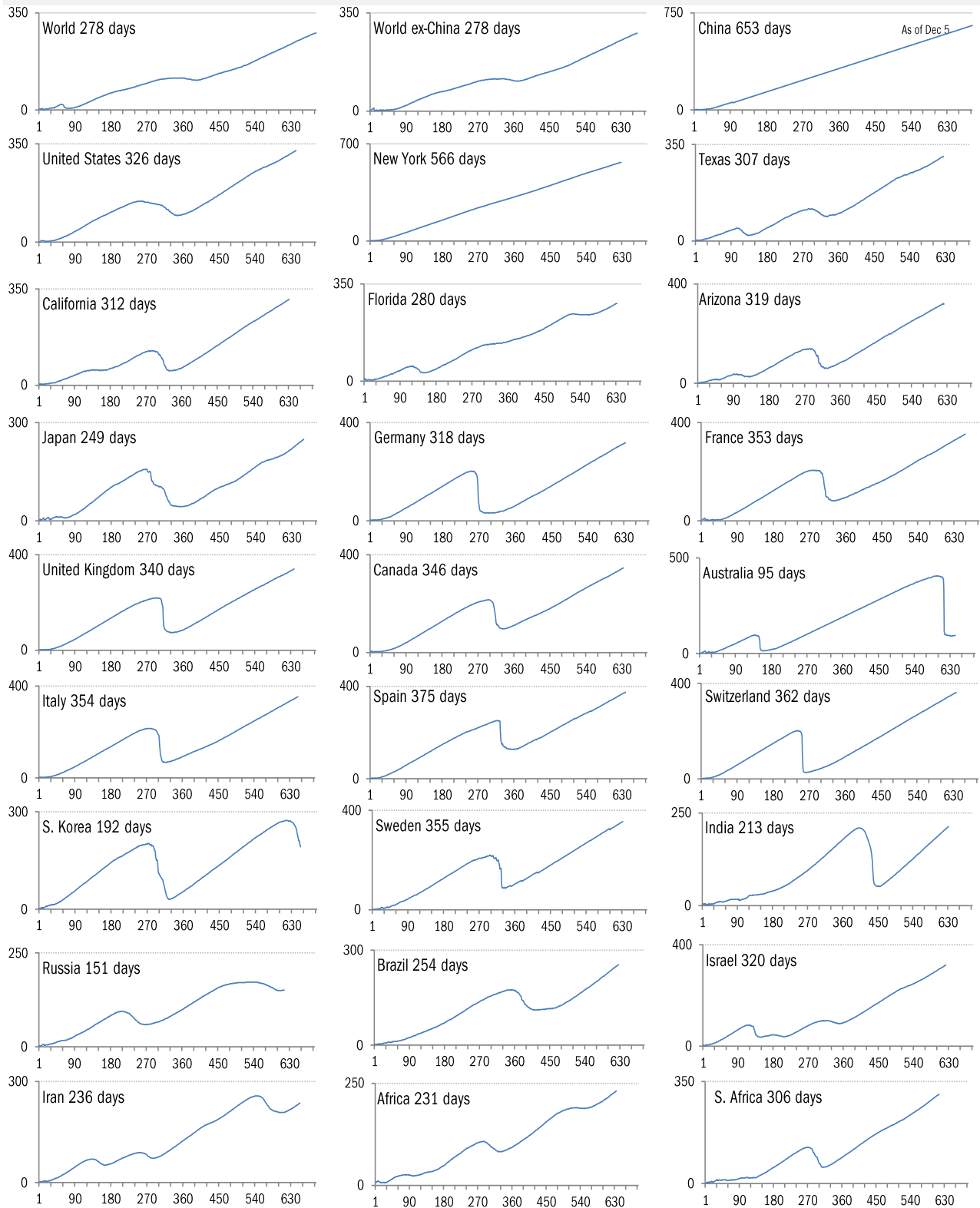
Source: [Johns Hopkins](#), TrendMacro calculations



# "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

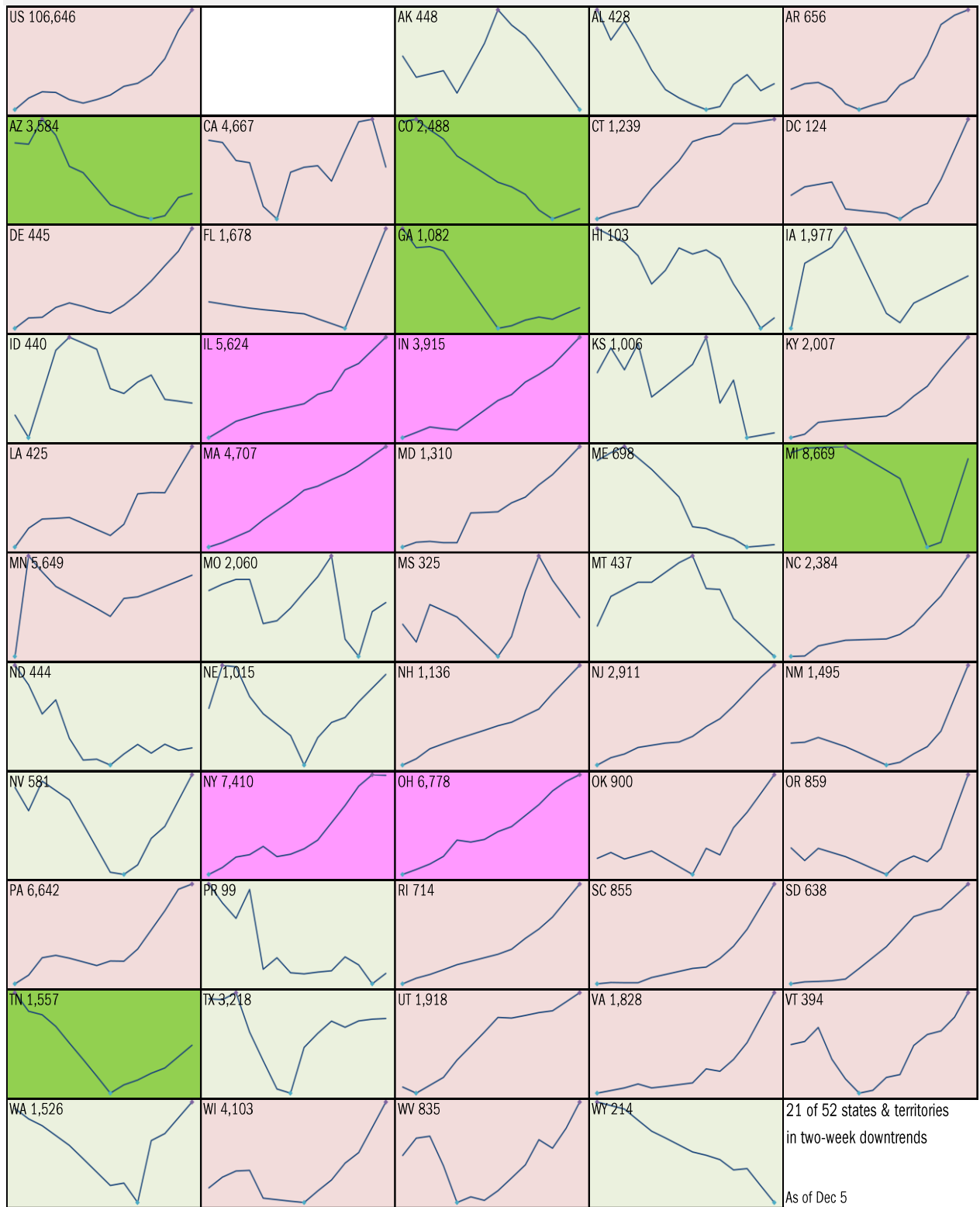


Source: [Johns Hopkins](#), TrendMacro calculations

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

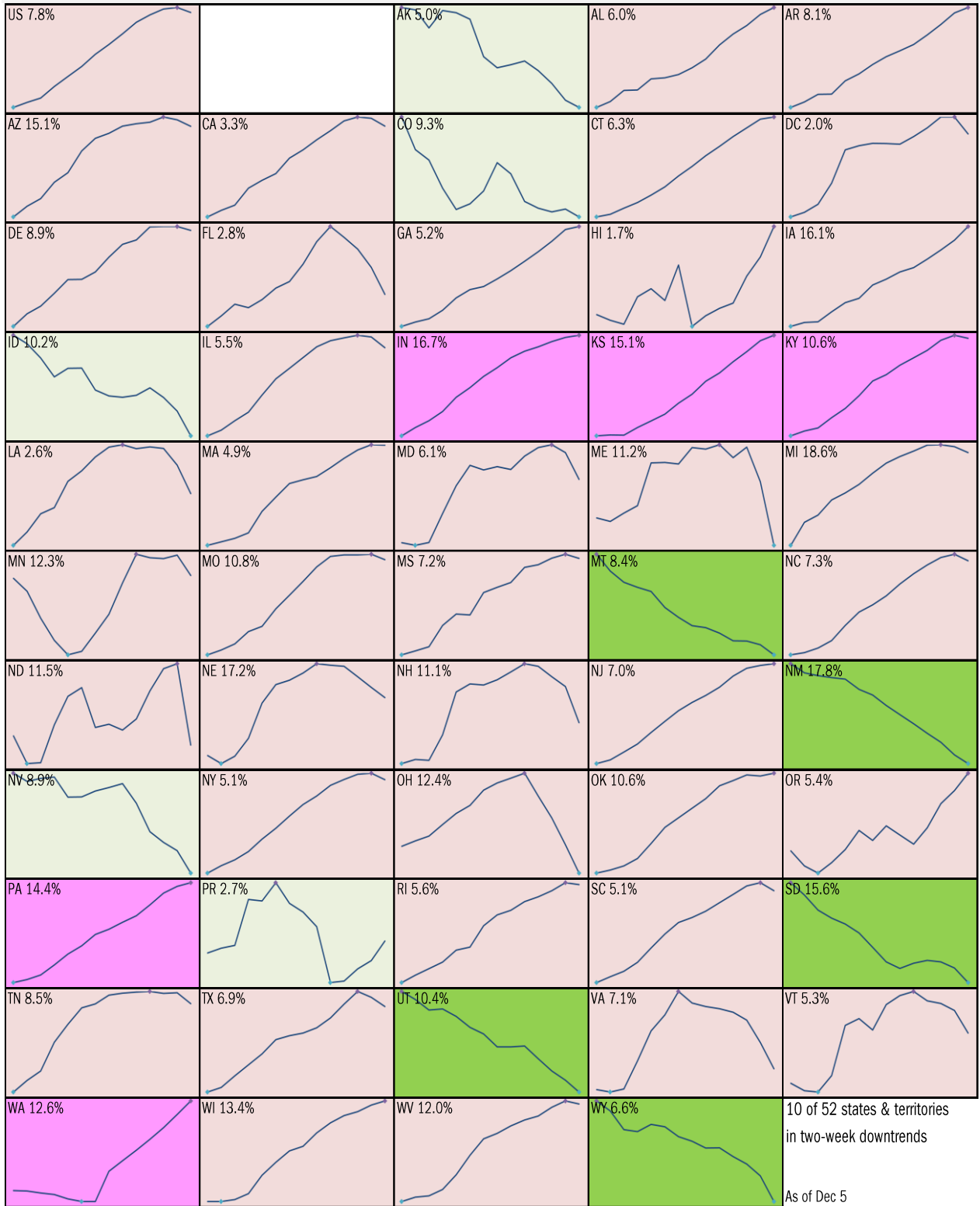


Source: [Johns Hopkins](#), TrendMacro calculations

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

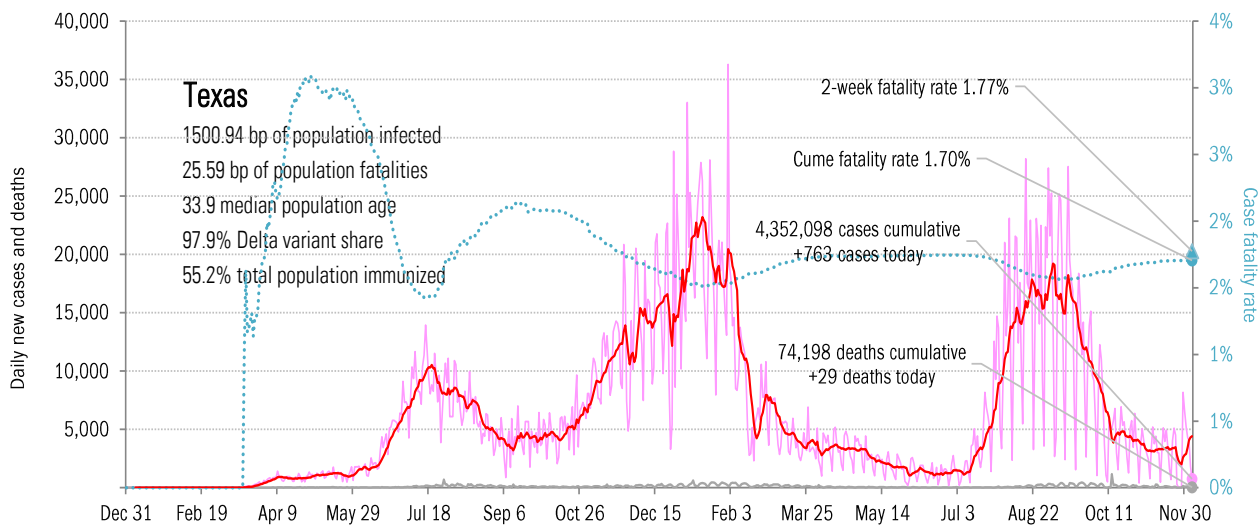
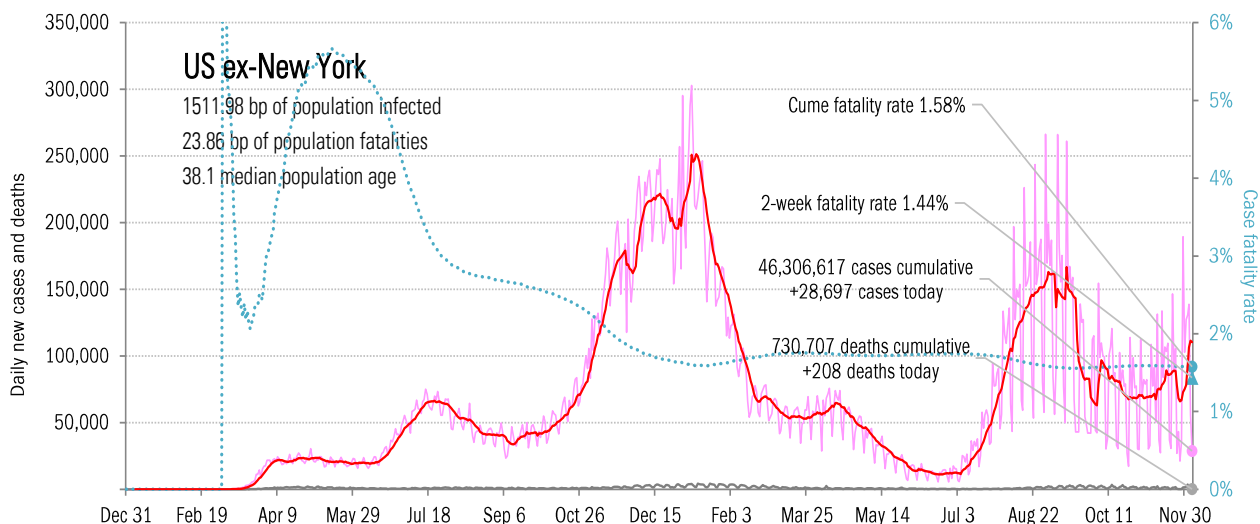
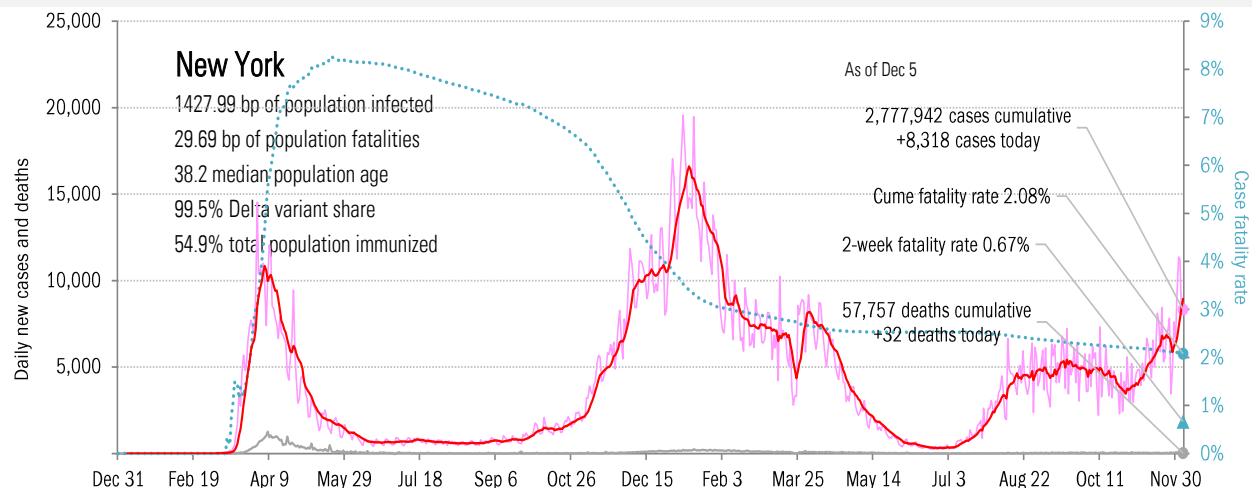
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

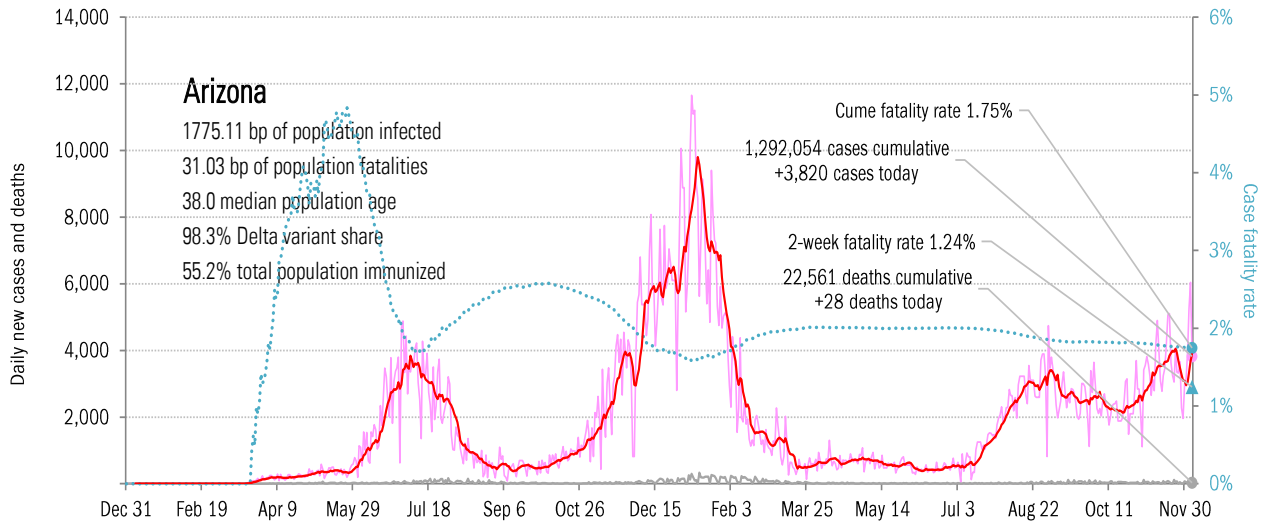
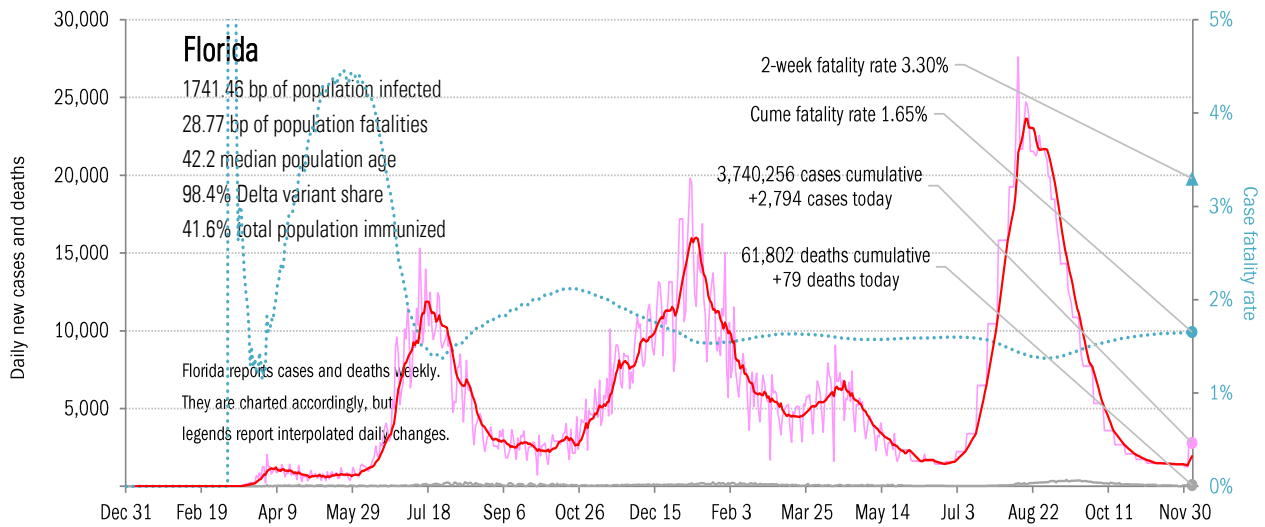
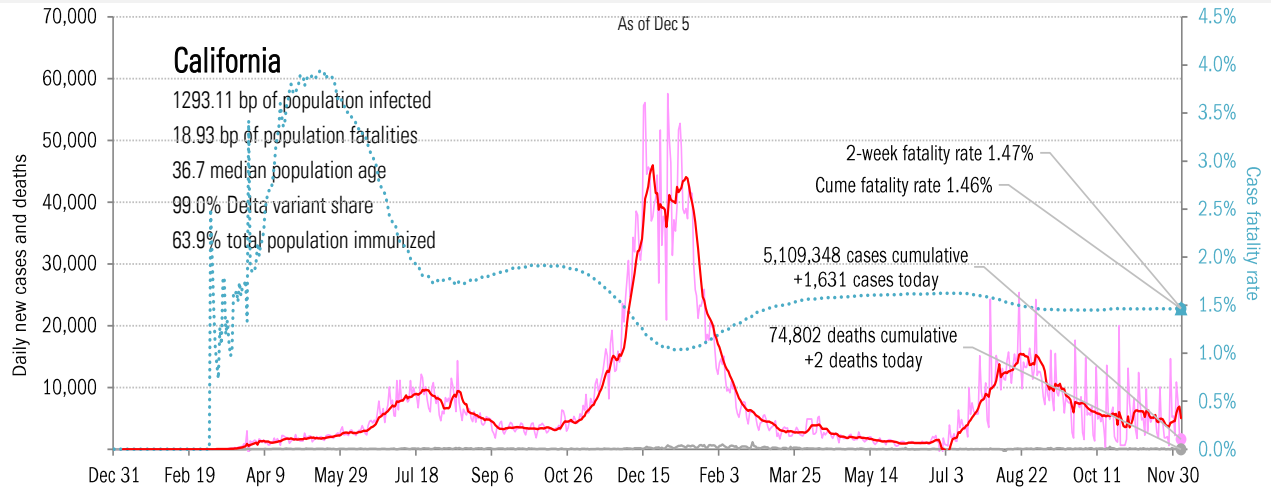
Cases: 7-day average and daily Deaths: Daily



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

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

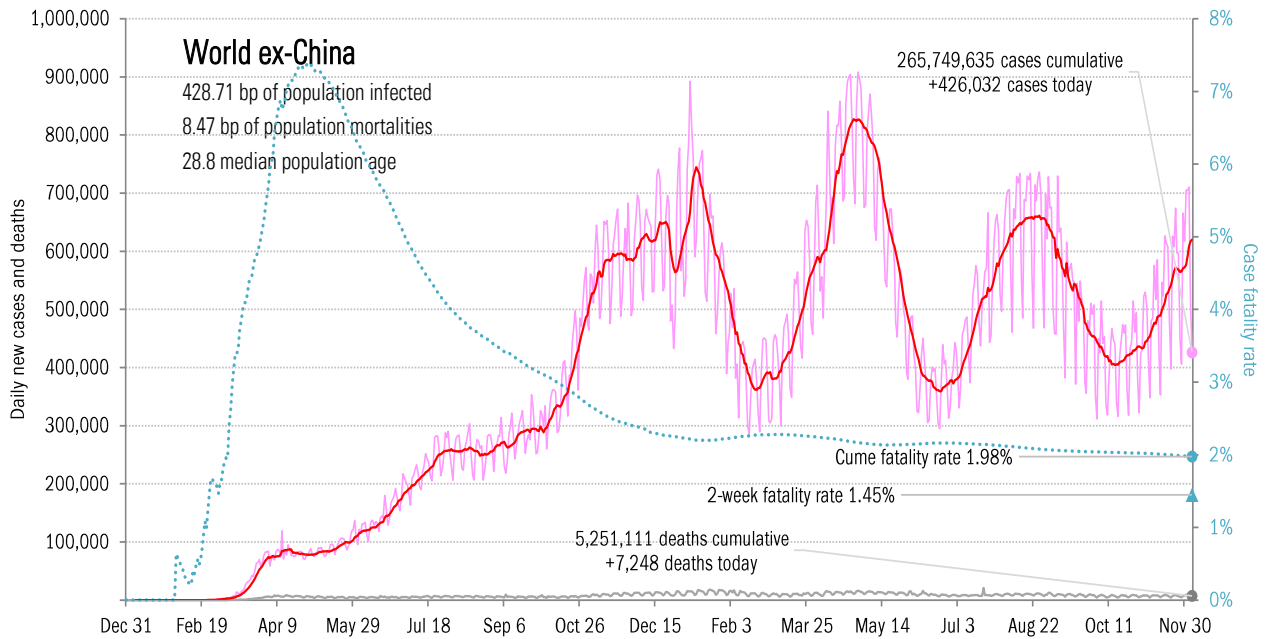
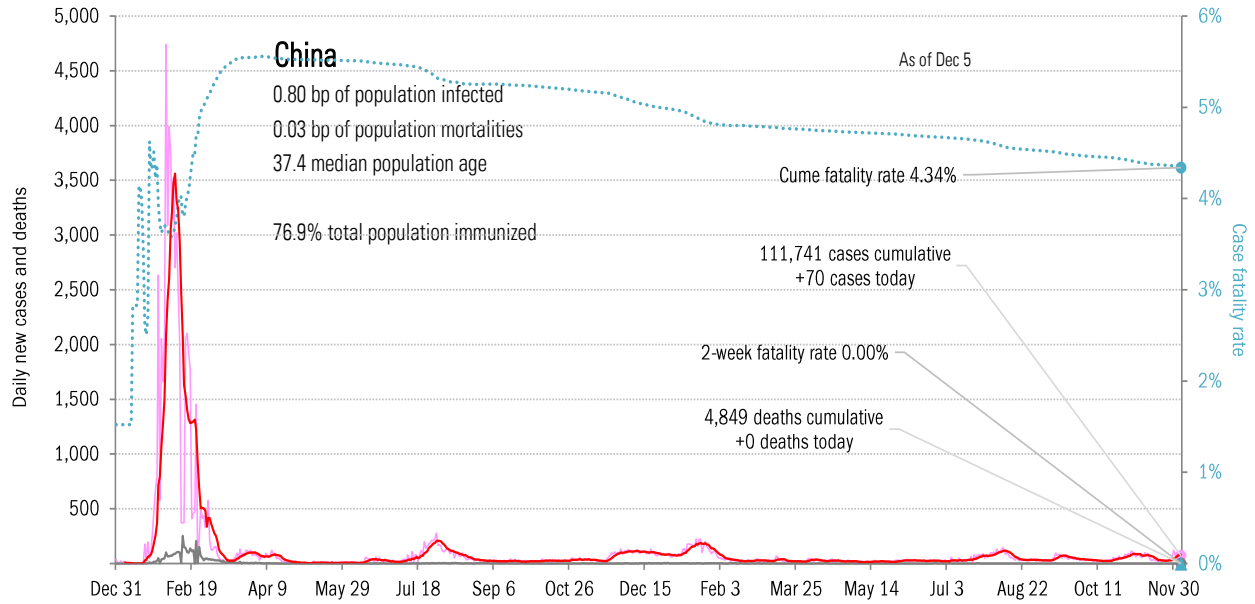
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

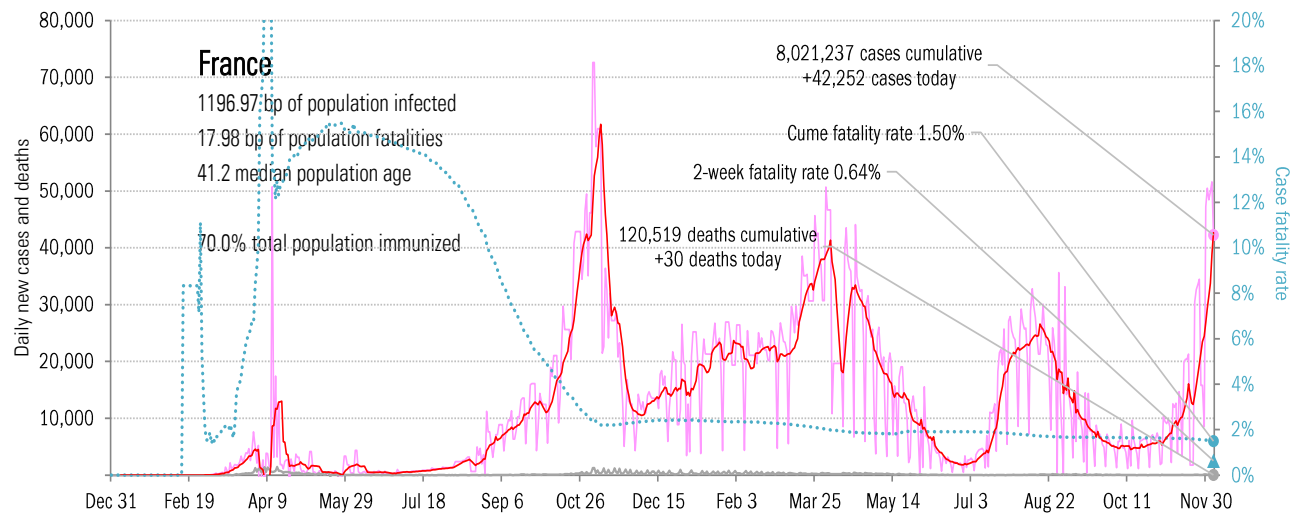
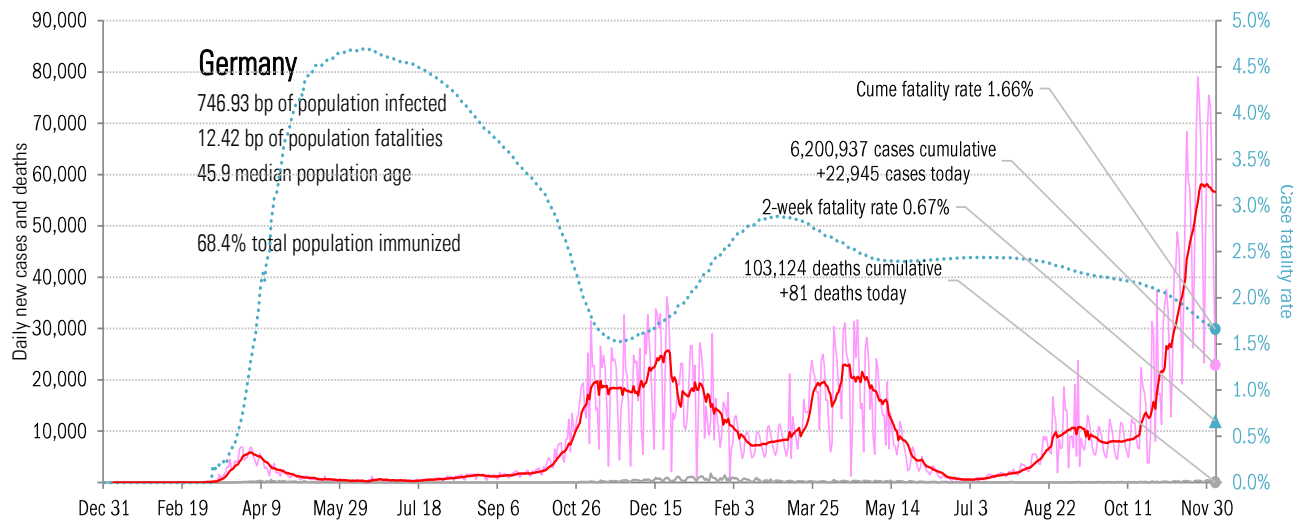
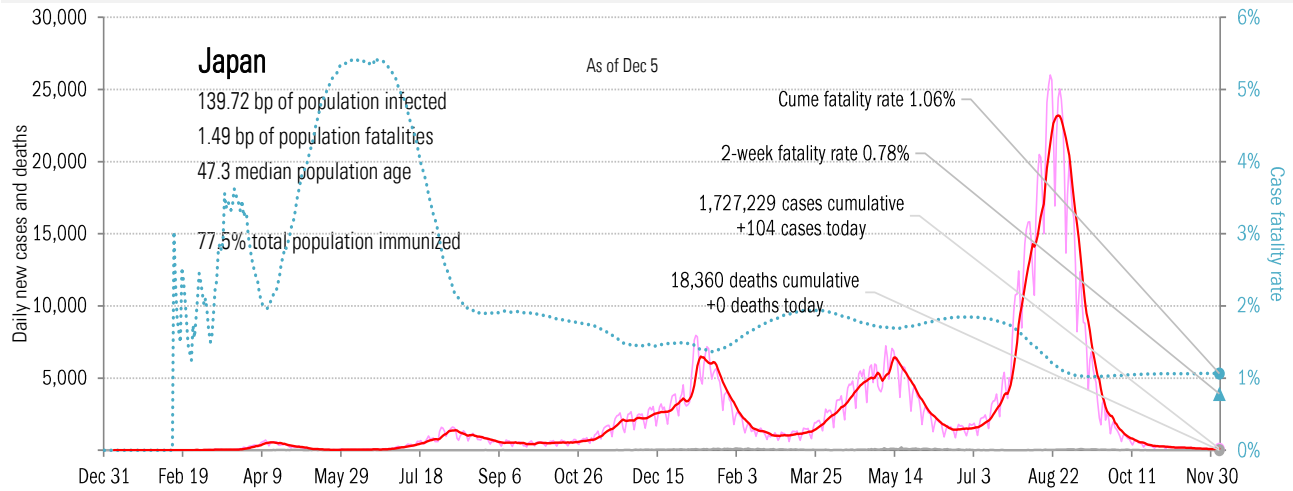
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

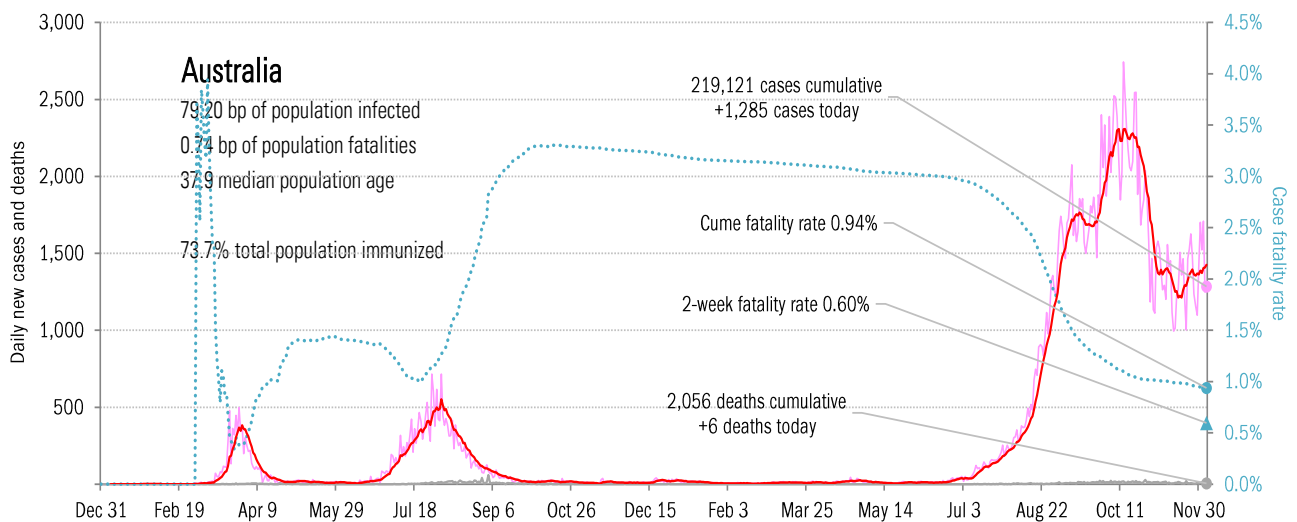
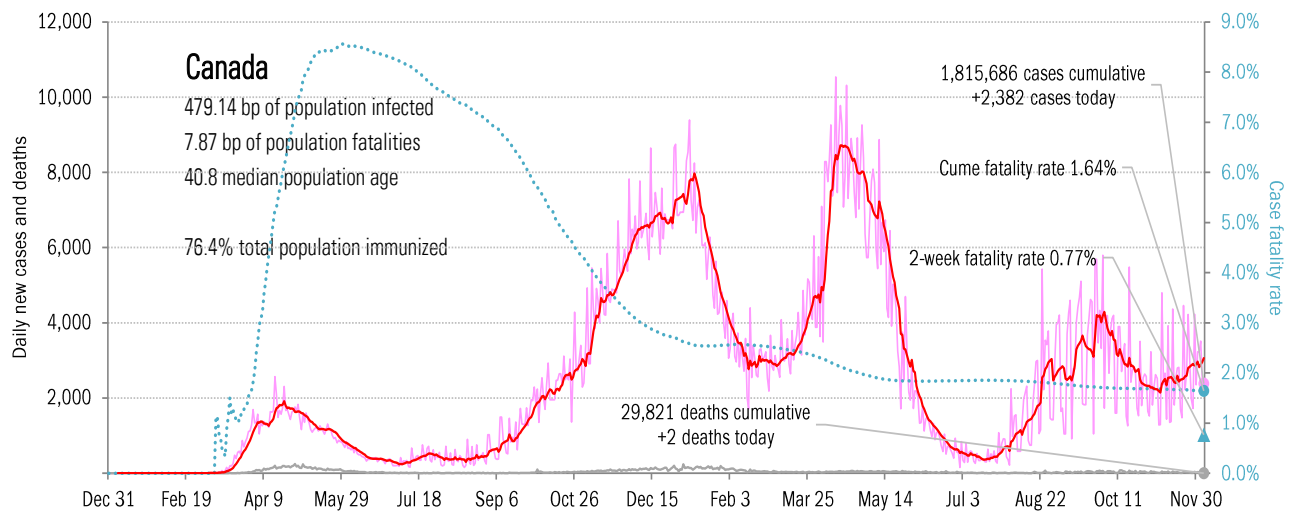
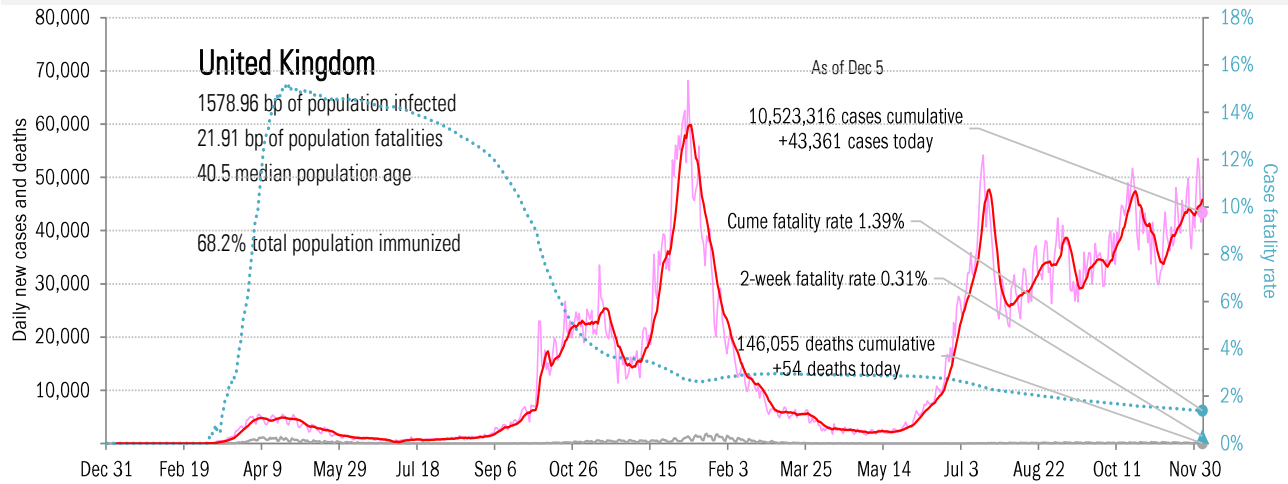
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

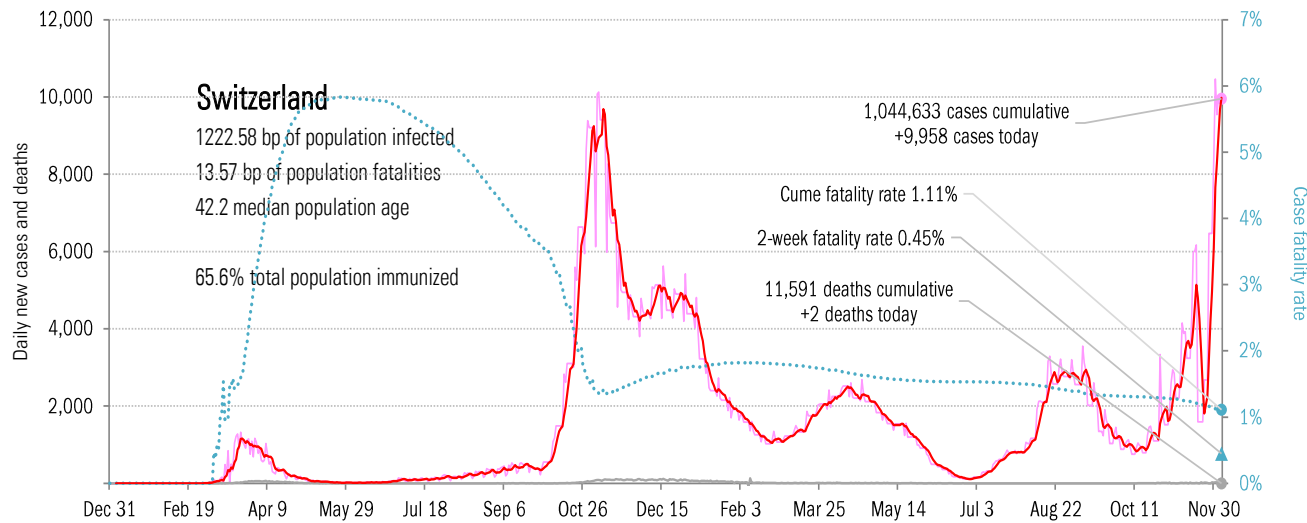
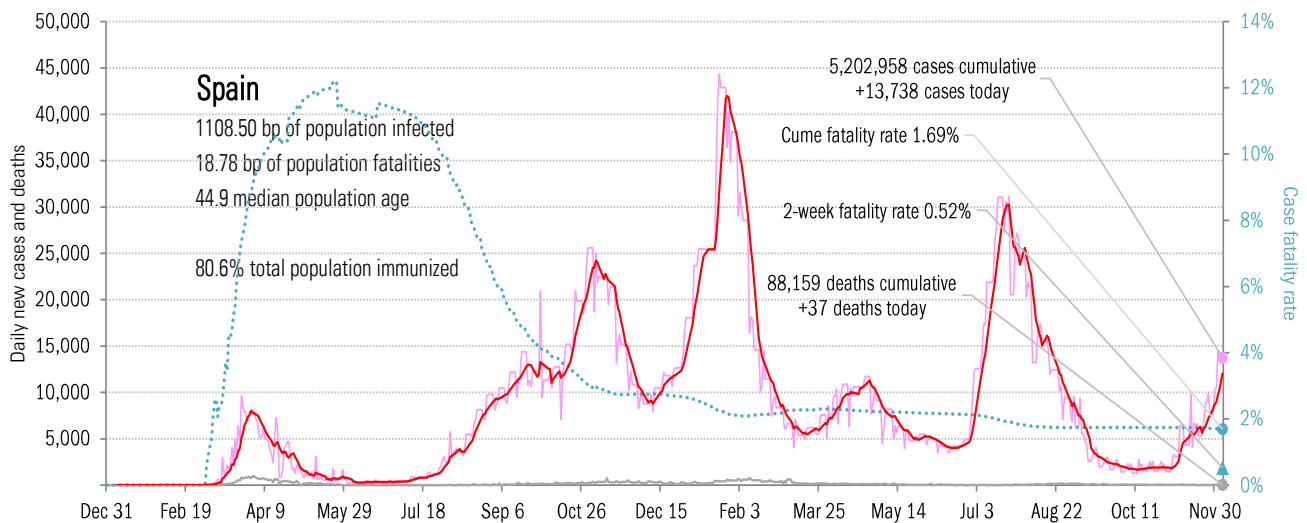
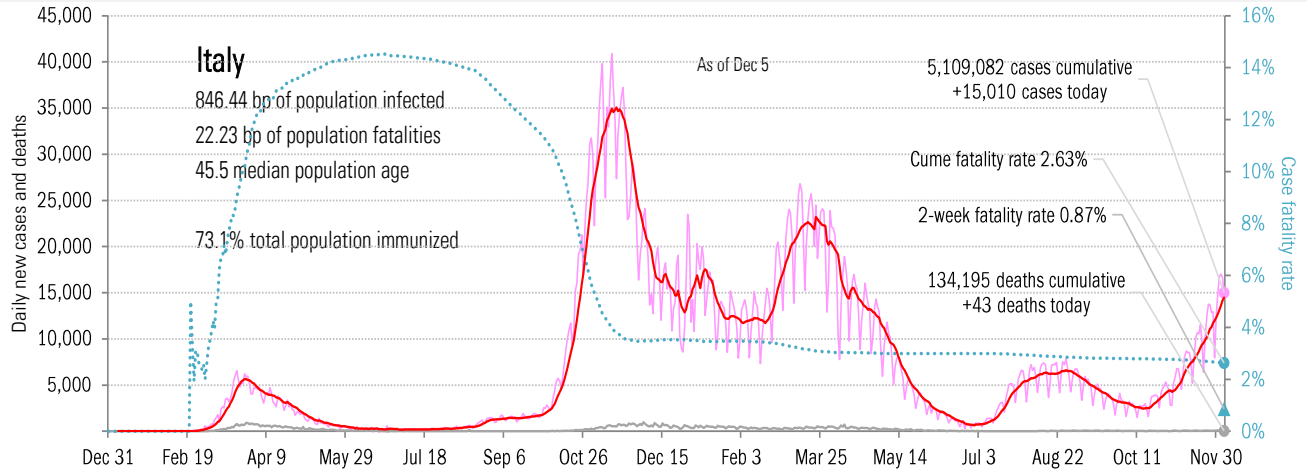


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

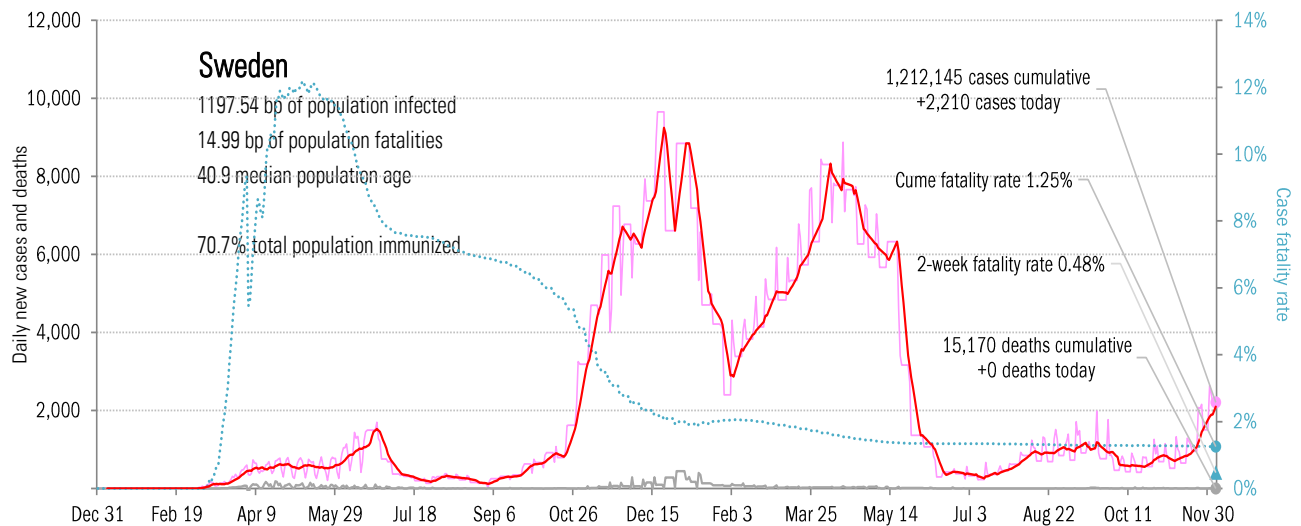
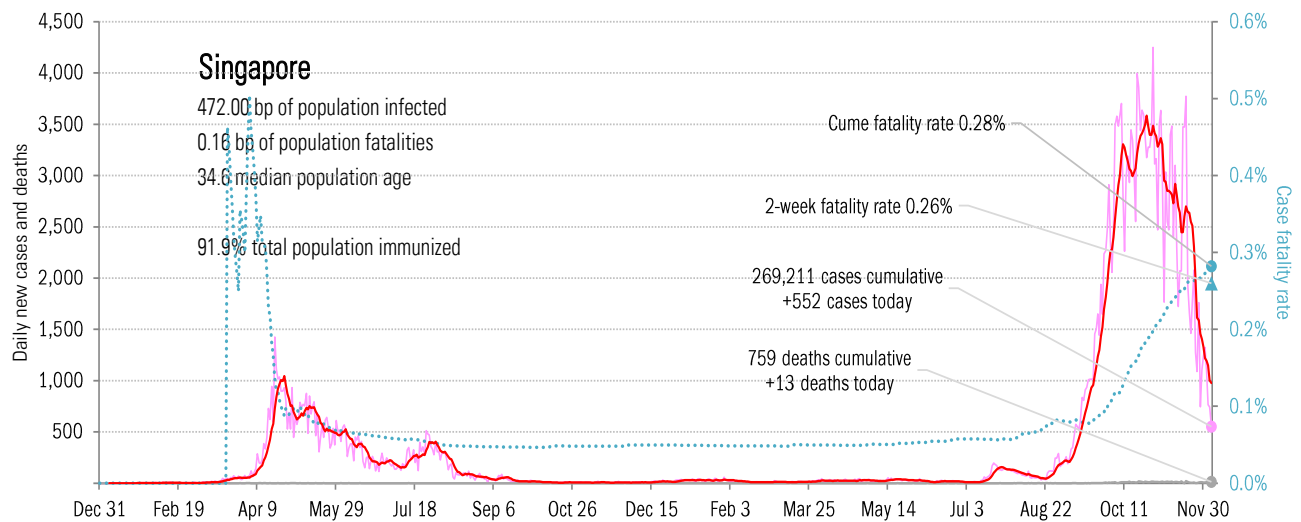
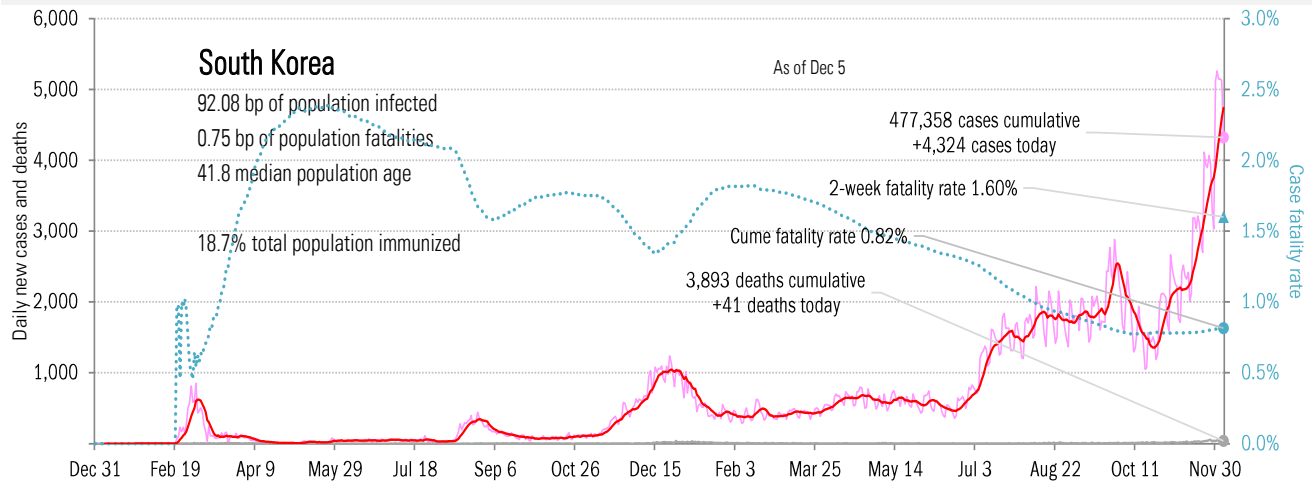
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

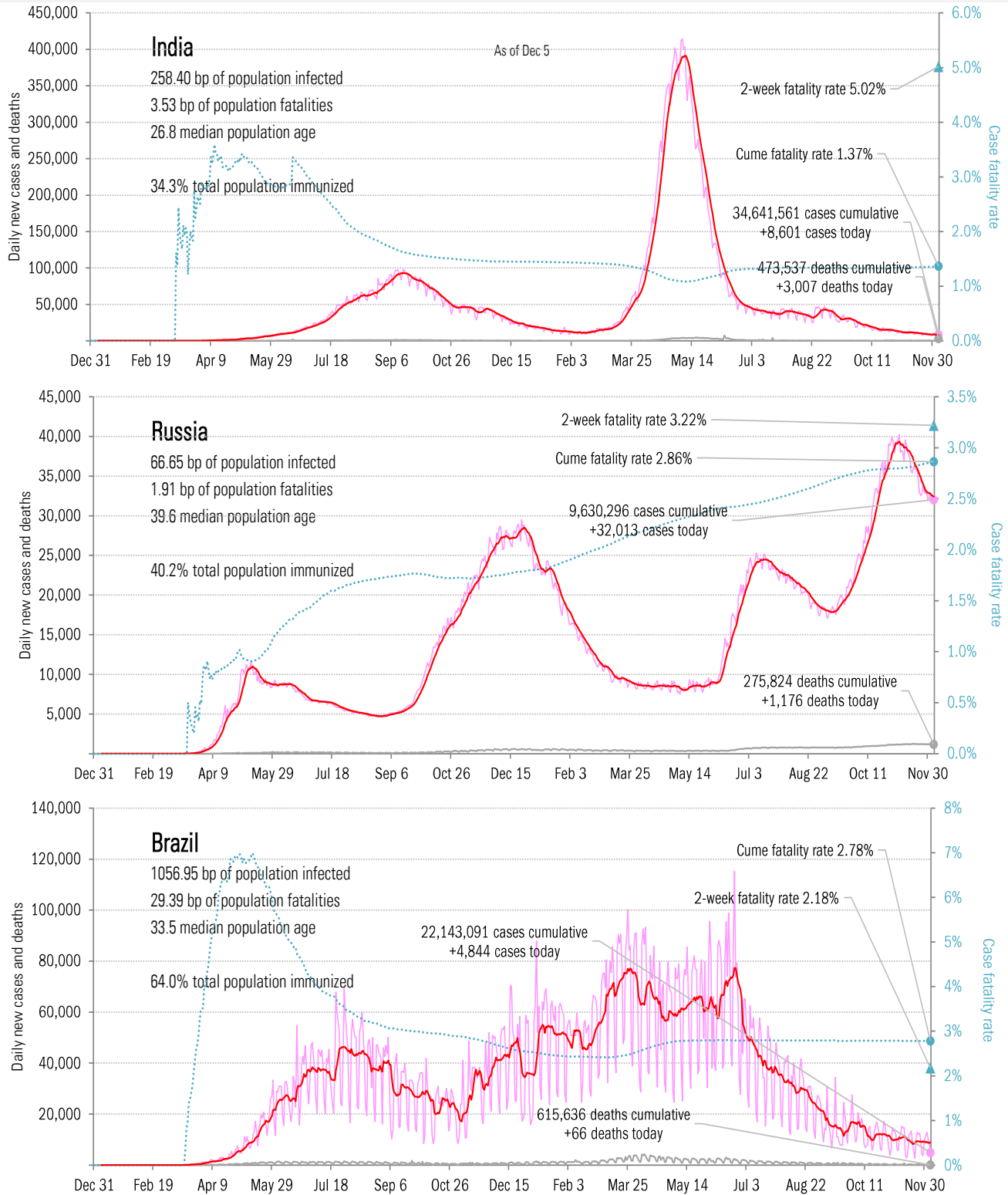
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

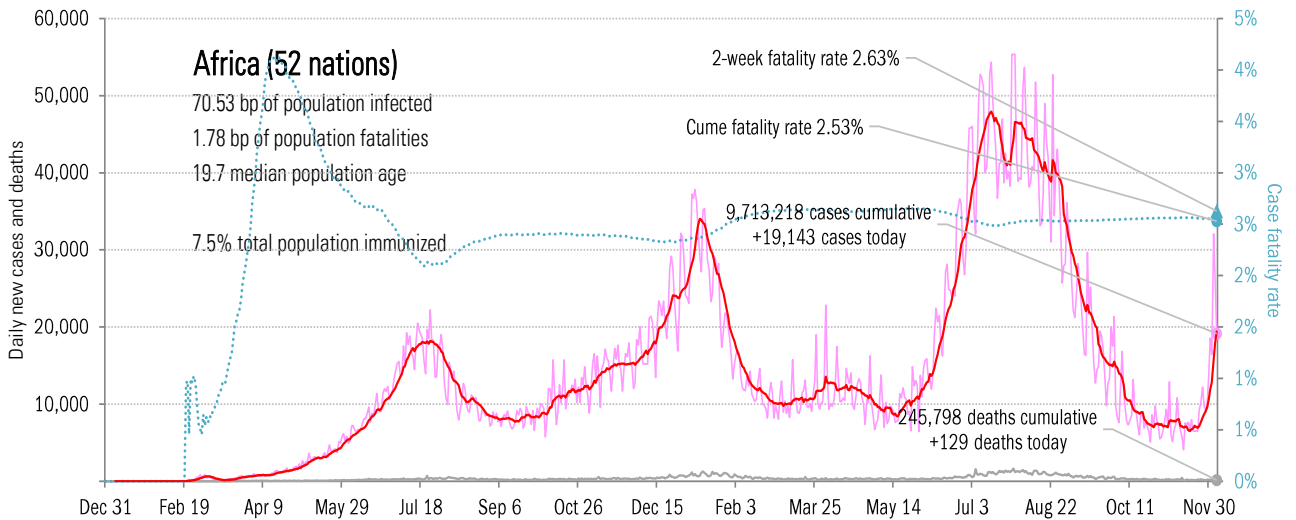
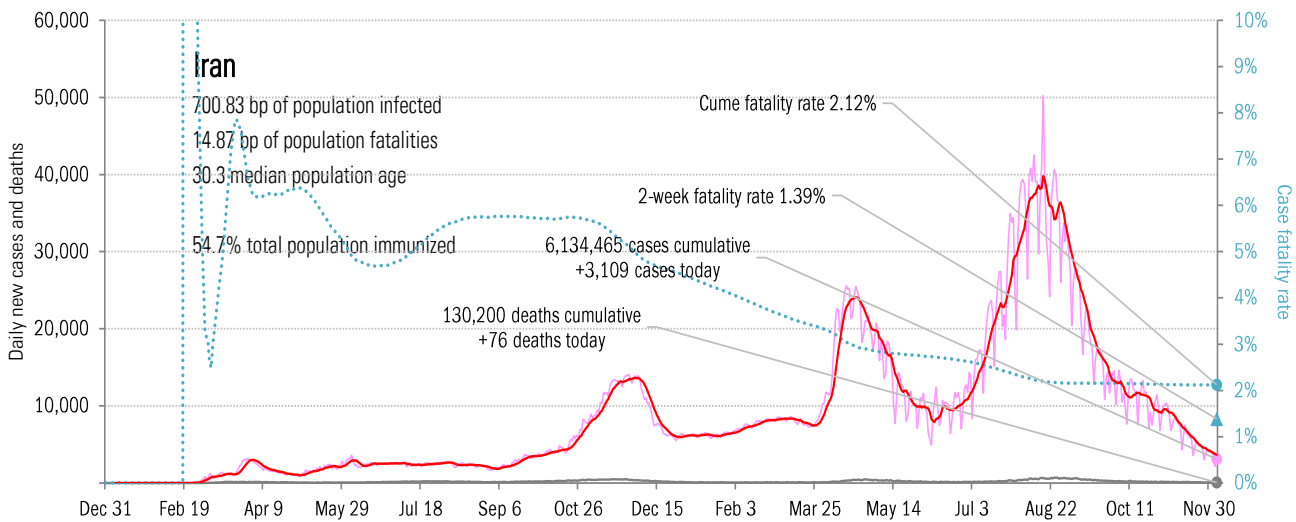
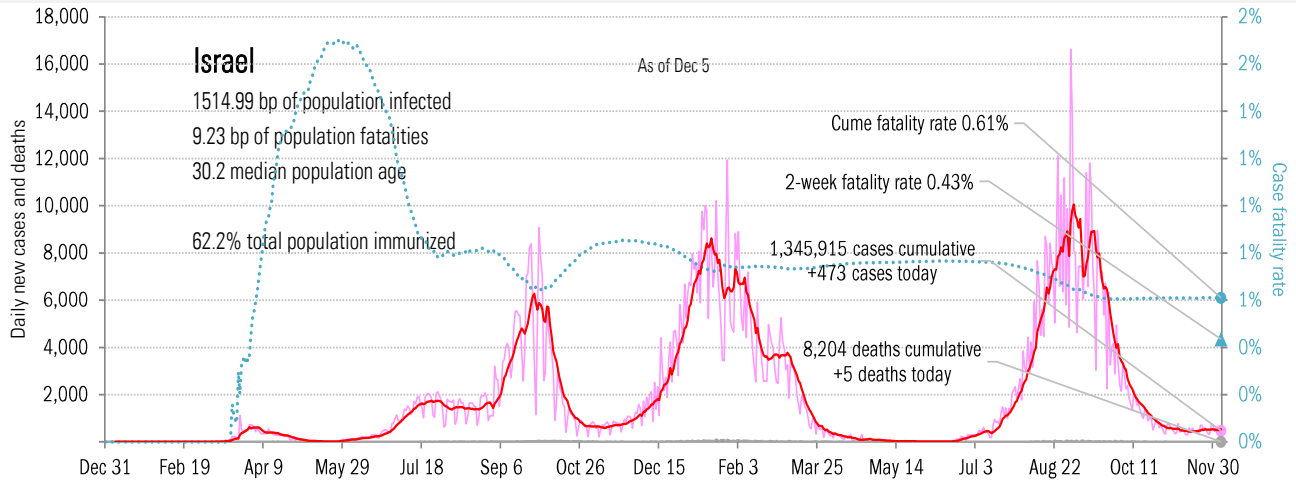
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

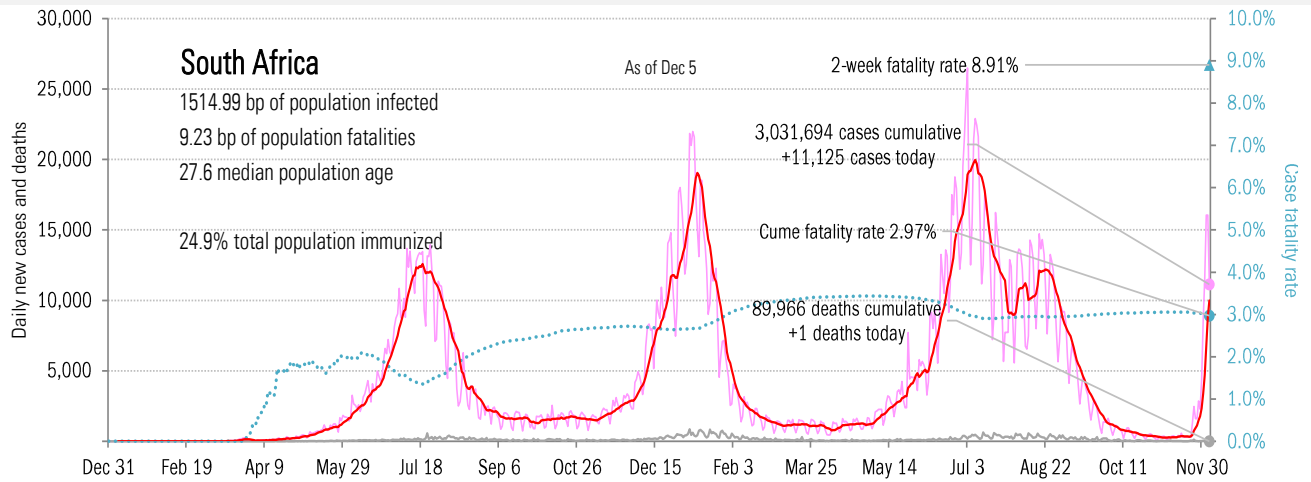
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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