

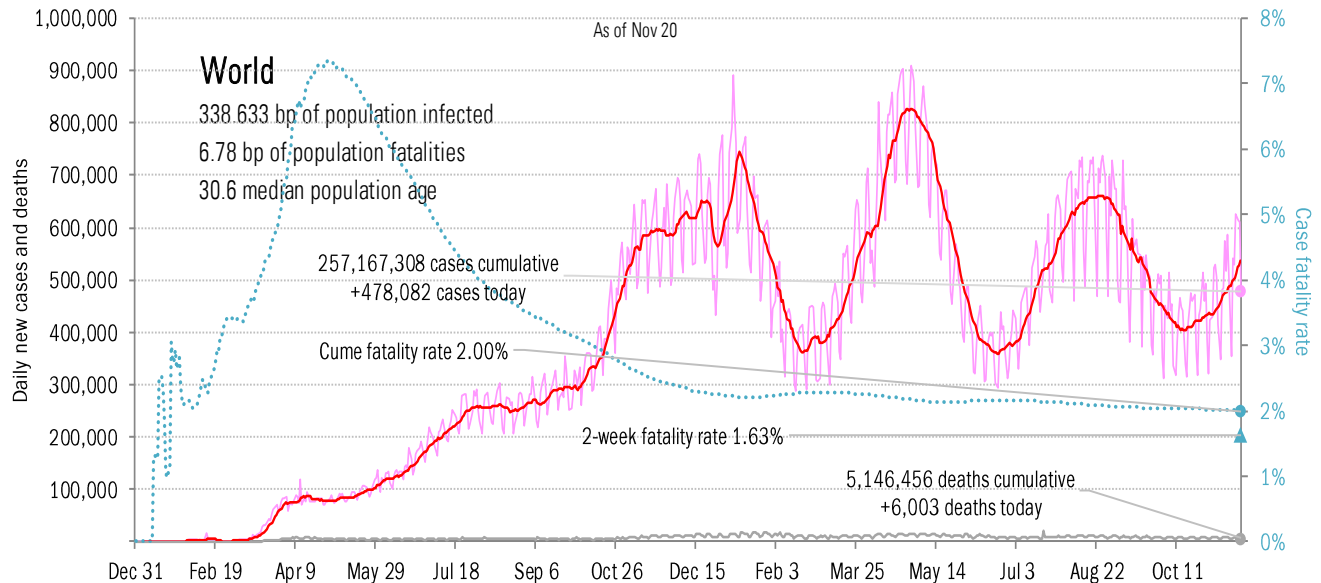
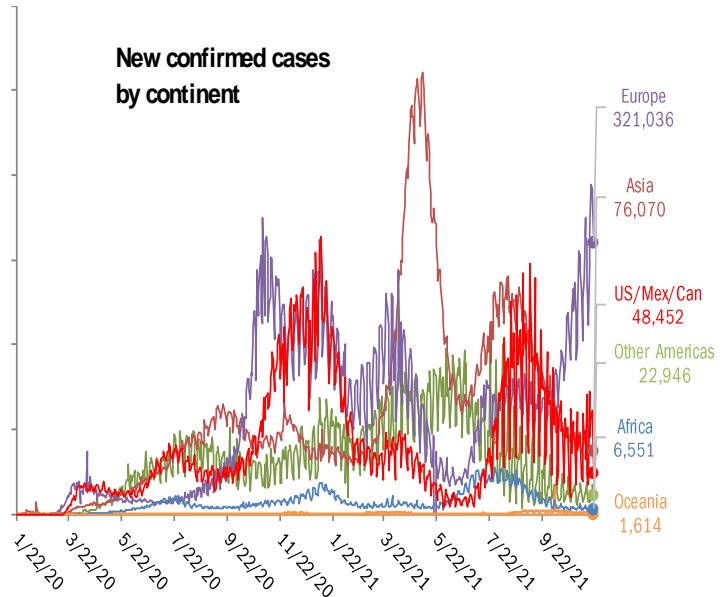
Data Insights: Covid-2019 Monitor

Sunday, November 21, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

| The worst ten countries | | | |
|-------------------------|---------|---------------|--------|
| New cases | | New Deaths | |
| Germany | +45,183 | Russia | +1,222 |
| United States | +42,906 | Ukraine | +696 |
| United Kingdom | +40,153 | Poland | +382 |
| Russia | +35,896 | United States | +377 |
| Poland | +23,418 | India | +313 |
| Turkey | +23,347 | Brazil | +217 |
| Czechia | +23,033 | Mexico | +216 |
| France | +22,701 | Romania | +214 |
| Netherlands | +21,860 | Philippines | +205 |
| Ukraine | +19,474 | Turkey | +201 |
| +297,971 | | +4,043 | |
| World +478,082 | | World +6,003 | |
| Top ten 62% | | Top ten 67% | |



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

For more information contact us:

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

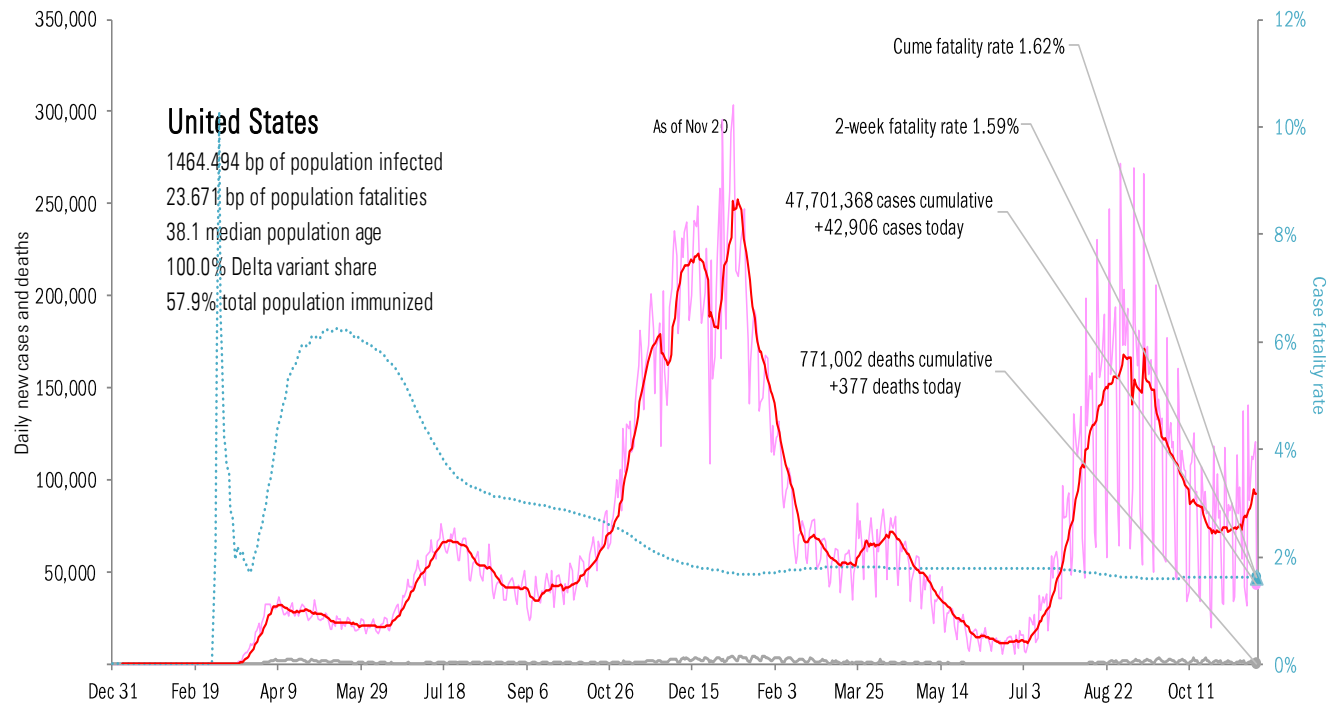
The ten worst US states

| New cases | | | New Deaths | | | New in hospital | | | Cume cases | | | Cume deaths | | | Cume in hospital | | | Hospital use | | ICU use | |
|------------|---------|--|------------|------|--|-----------------|------|--|------------|------------|--|-------------|---------|--|------------------|-----------|--|--------------|-----|---------|-----|
| PA | +6,424 | | PA | +86 | | GA | +101 | | CA | 5,036,884 | | CA | 73,720 | | TX | 380,859 | | RI | 87% | RI | 91% |
| NY | +5,889 | | TX | +75 | | PA | +100 | | TX | 4,306,389 | | TX | 73,351 | | FL | 321,960 | | MA | 87% | DE | 89% |
| CH | +5,590 | | FL | +55 | | CH | +59 | | FL | 3,720,999 | | FL | 61,070 | | CA | 317,372 | | PA | 86% | NM | 88% |
| AZ | +5,103 | | AZ | +53 | | WI | +44 | | NY | 2,665,759 | | NY | 57,158 | | NY | 168,934 | | MI | 85% | TX | 86% |
| IA | +3,876 | | CA | +26 | | NY | +40 | | IL | 1,763,866 | | PA | 32,911 | | GA | 162,120 | | MD | 85% | AL | 86% |
| NJ | +2,199 | | NY | +17 | | NJ | +37 | | PA | 1,680,752 | | GA | 30,162 | | CH | 130,454 | | NY | 83% | KY | 85% |
| CA | +1,831 | | AL | +10 | | FL | +36 | | GA | 1,654,649 | | IL | 28,660 | | PA | 122,724 | | MN | 83% | ID | 85% |
| TX | +1,647 | | NE | +10 | | TX | +29 | | CH | 1,639,070 | | NJ | 28,250 | | KY | 113,216 | | MO | 83% | MA | 84% |
| MO | +1,581 | | MD | +9 | | MI | +28 | | NC | 1,514,879 | | CH | 26,063 | | IL | 108,117 | | WA | 83% | NE | 84% |
| FL | +1,413 | | NJ | +7 | | NC | +25 | | MI | 1,408,419 | | MI | 24,841 | | MI | 98,666 | | CT | 83% | MN | 84% |
| +35,553 | | | +348 | | | +499 | | | 25,391,666 | | | 436,186 | | | 1,924,422 | | | | | | |
| All states | +42,906 | | | +377 | | | +516 | | All states | 47,701,368 | | | 771,002 | | | 3,452,876 | | All states | 70% | | 67% |
| Top ten | 83% | | | 92% | | | 97% | | Top ten | 53% | | | 57% | | | 56% | | Median | 77% | | 78% |

Some states not reporting

Five most improved US states

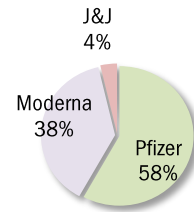
| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | | Most pop immunity growth | |
|-------------------|---------|------------------|------|----------------------------|-----|--------------------------|--------|
| MI | -20,481 | CH | -250 | MI | -93 | GA | +20 bp |
| FL | -6,561 | KY | -212 | AZ | -59 | AK | +10 bp |
| IL | -5,720 | MI | -157 | MN | -58 | AR | +10 bp |
| MN | -5,148 | CA | -116 | IN | -56 | DC | +10 bp |
| CA | -4,283 | FL | -114 | IL | -39 | IA | +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 | 462,325,638 | | +1.842 million | | US | 57.9% | 68.3% | |
| Boosters | 35,099,972 | | +1.071 million | | UK | 67.6% | 74.4% | |
| | One dose | % Pop | Immune | % pop | New immune today | France | 69.0% | 76.4% |
| Total population | 235,630,473 | 71% | 201,187,366 | 60% | +0.212 million | Spain | 80.3% | 81.7% |
| Age 12 to 17 | 14,538,452 | 61% | 12,193,917 | 51% | +0.014 million | Germany | 67.3% | 69.8% |
| Age 18 to 64 | 160,913,390 | 79% | 139,140,215 | 68% | +0.158 million | Italy | 73.0% | 77.8% |
| Age 65 and over | 56,526,477 | 100% | 48,910,488 | 89% | +0.038 million | Australia | 71.0% | 76.7% |
| | | | | | | Israel | 62.0% | 67.4% |
| | | | | | | Canada | 75.7% | 79.2% |
| | | | | | | Japan | 76.2% | 78.9% |
| | | | | | | Africa | 6.9% | 10.1% |
| | | | | | | India | 28.6% | 54.9% |
| | | | | | | Brazil | 60.0% | 75.9% |
| | | | | | | China | 74.5% | 84.8% |



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



Every American >18 immunized in **133 days** by Apr 1, 2022
 72.8% of population >18 immunized
 17.0% previously tested positive
89.8% vs 60% adult herd immunity

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

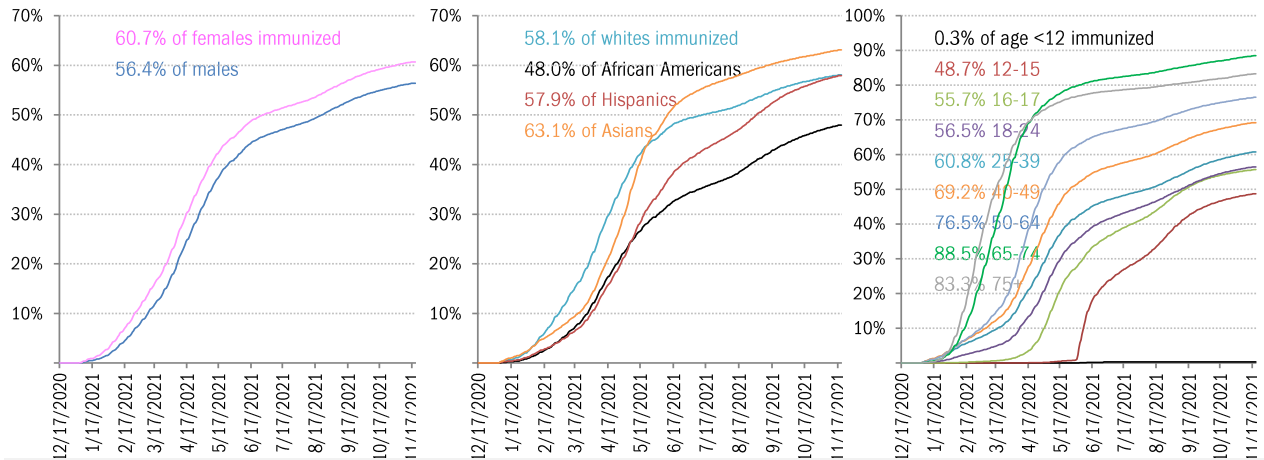
| |
|-------|
| WI |
| 65.0% |
| 59.2% |

As of Nov 20

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

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| WA | ID | MT | ND | MN | IL | MI | NY | VT | NH | |
| 71.8% | 50.3% | 59.0% | 57.0% | 67.9% | 66.7% | 60.3% | 76.9% | 83.4% | 84.0% | |
| 64.6% | 44.9% | 51.6% | 48.4% | 62.1% | 61.0% | 54.3% | 68.0% | 72.4% | 64.0% | |
| OR | NV | WY | SD | IA | IN | OH | PA | NJ | MA | |
| 70.5% | 65.4% | 52.9% | 65.2% | 61.8% | 55.1% | 57.6% | 83.6% | 78.0% | 84.1% | |
| 63.7% | 54.0% | 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 |
| 77.6% | 63.6% | 70.3% | 63.2% | 58.9% | 59.5% | 53.8% | 74.3% | 74.5% | 82.5% | 81.8% |
| 62.6% | 55.2% | 62.7% | 57.1% | 50.6% | 51.7% | 41.5% | 64.4% | 67.0% | 71.6% | 72.0% |
| | AZ | NM | KS | AR | TN | NC | SC | DC | DE | |
| | 63.3% | 75.3% | 65.1% | 59.9% | 56.2% | 68.5% | 59.5% | 79.3% | 71.3% | |
| | 54.2% | 63.2% | 54.2% | 49.0% | 49.2% | 53.8% | 51.0% | 63.9% | 60.9% | |
| | | | OK | LA | MS | AL | GA | | | |
| | | | 61.8% | 55.0% | 53.4% | 55.9% | 58.4% | | | |
| | | | 51.2% | 48.5% | 46.8% | 45.7% | 49.3% | | | |
| | | | TX | | | | | FL | | PR |
| | | | 63.3% | | | | | 71.0% | | 84.3% |
| | | | 54.3% | | | | | 60.8% | | 74.4% |

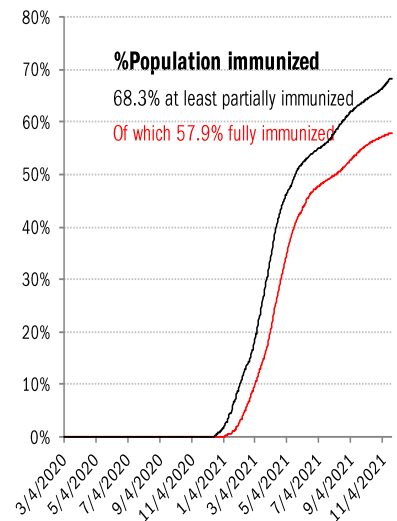
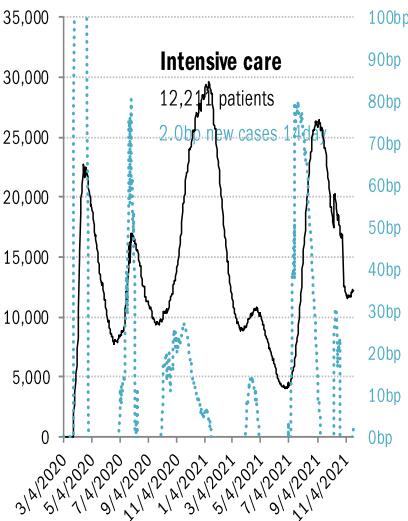
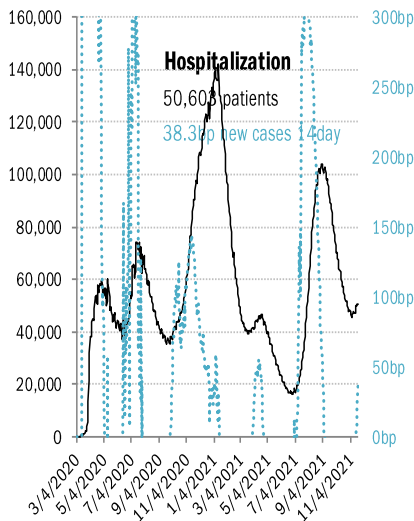
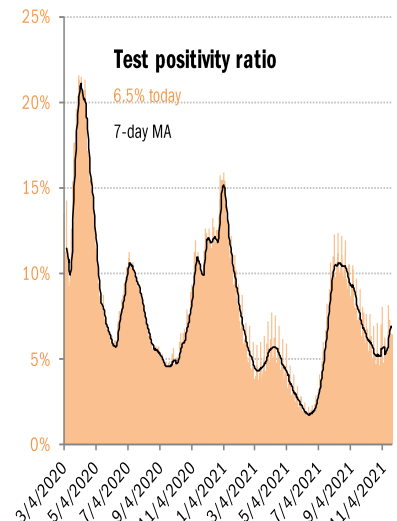
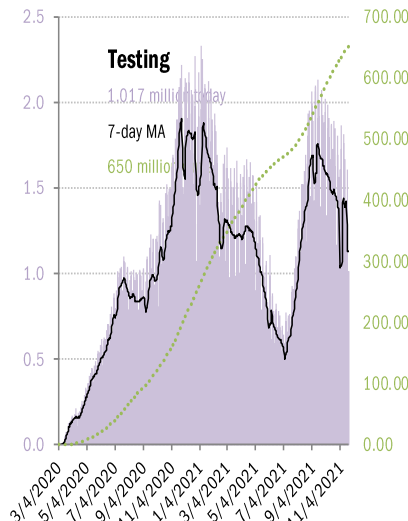
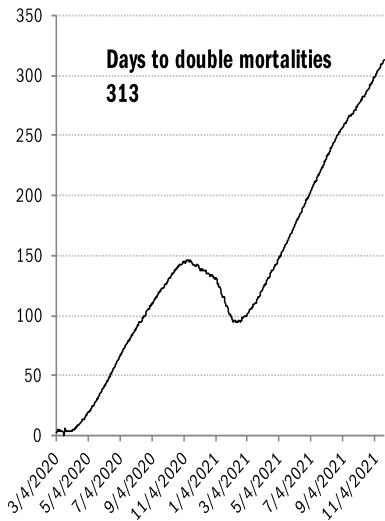
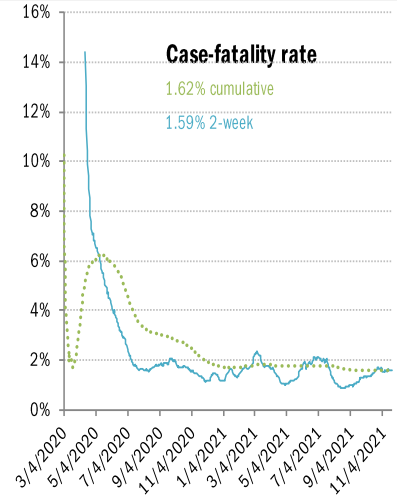
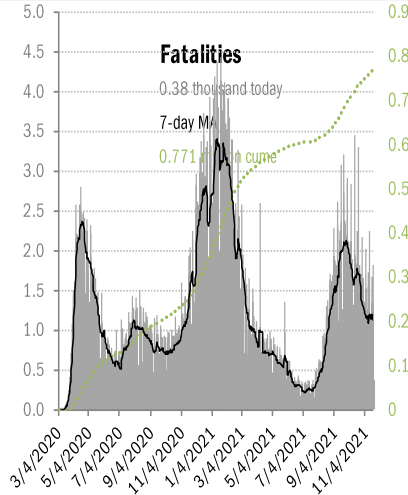
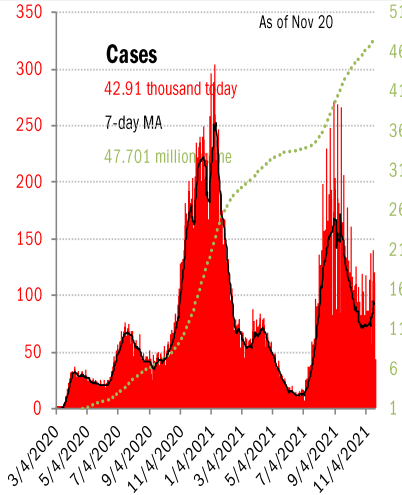
The demographics of US vaccination



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

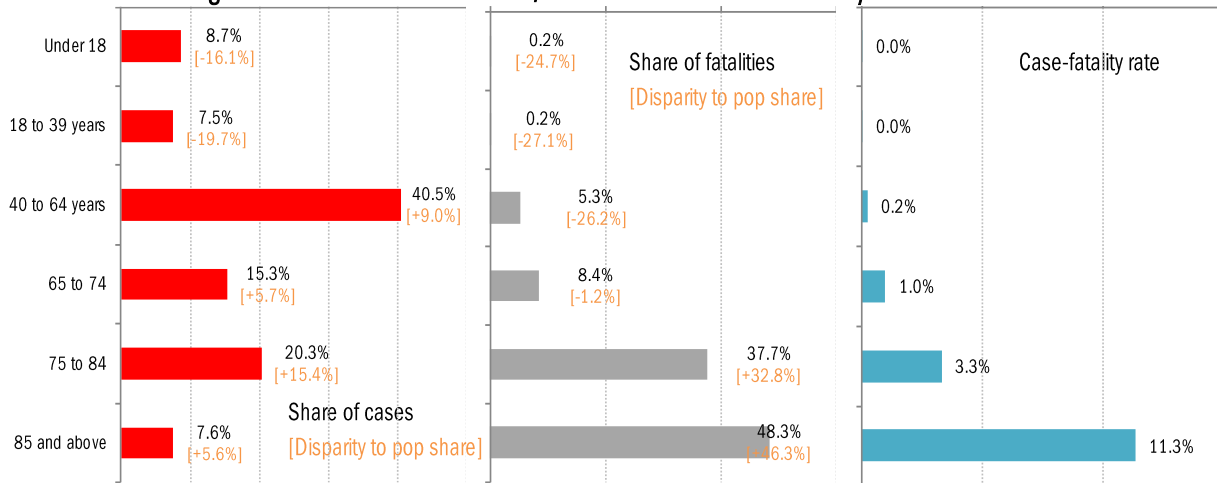
US deep-dive

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

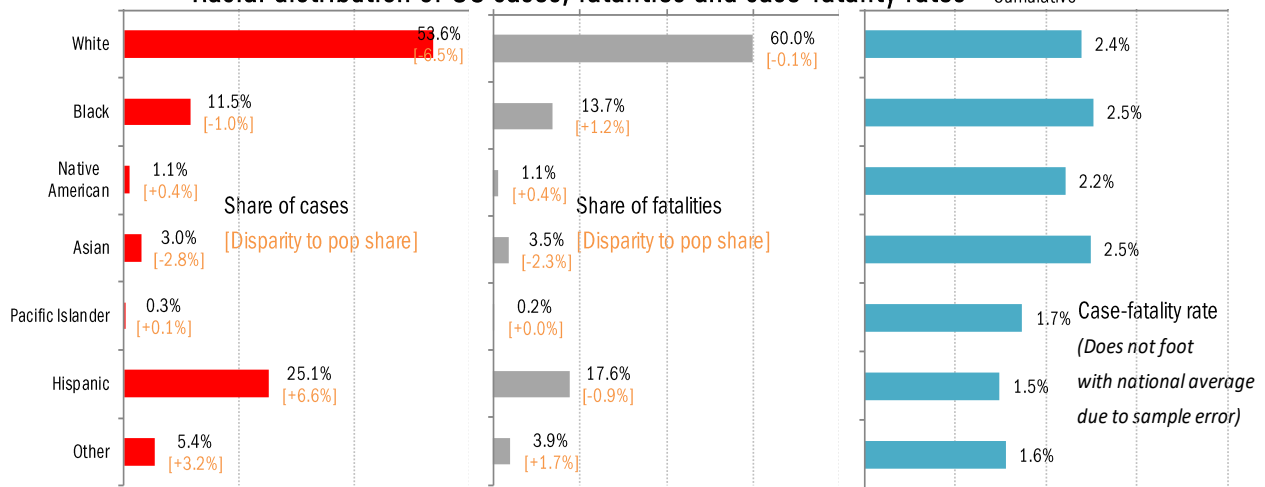


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

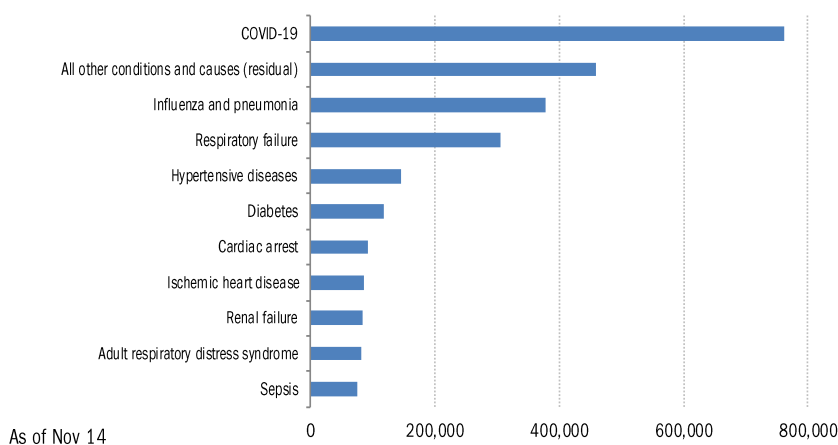


Racial distribution of US cases, fatalities and case-fatality rates



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

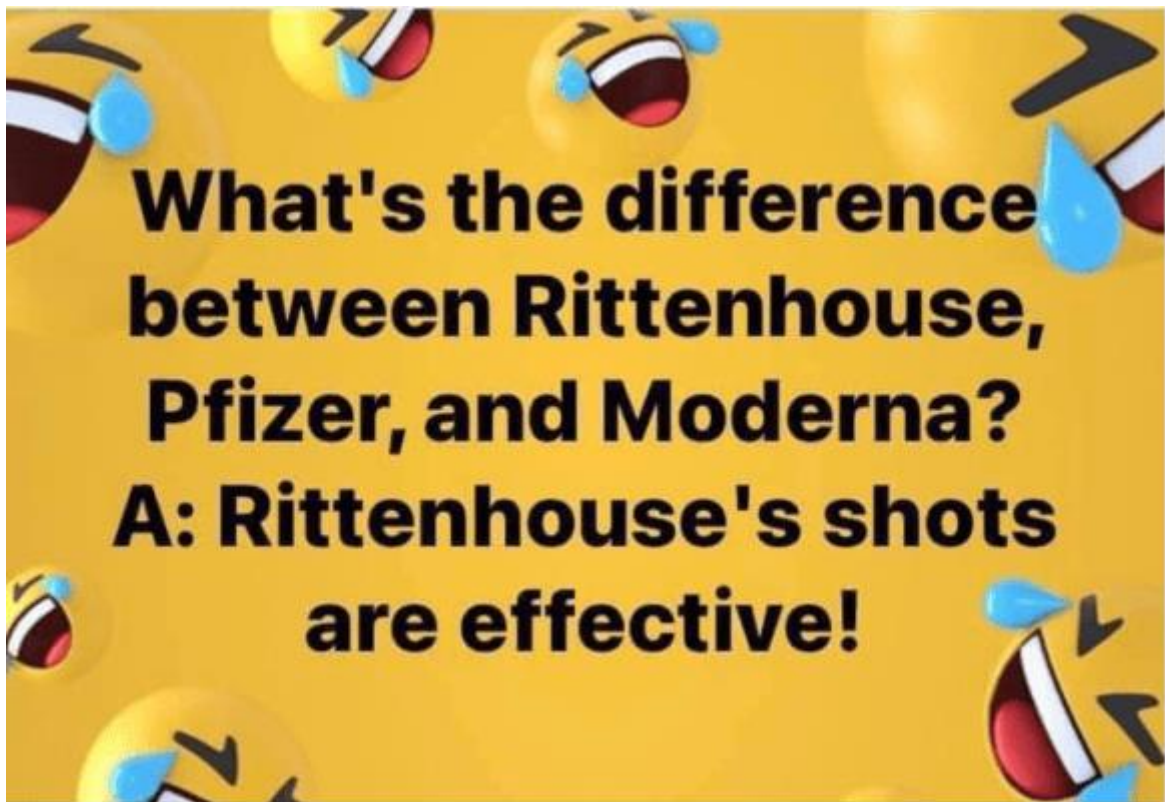
[I'm 87, Triple Vaxxed and Living My Life Again](#)

Katharine Esty
New York Times
November 21, 2021

[Thousands in Austria Protest Virus Lockdown and Vaccine Mandate](#)

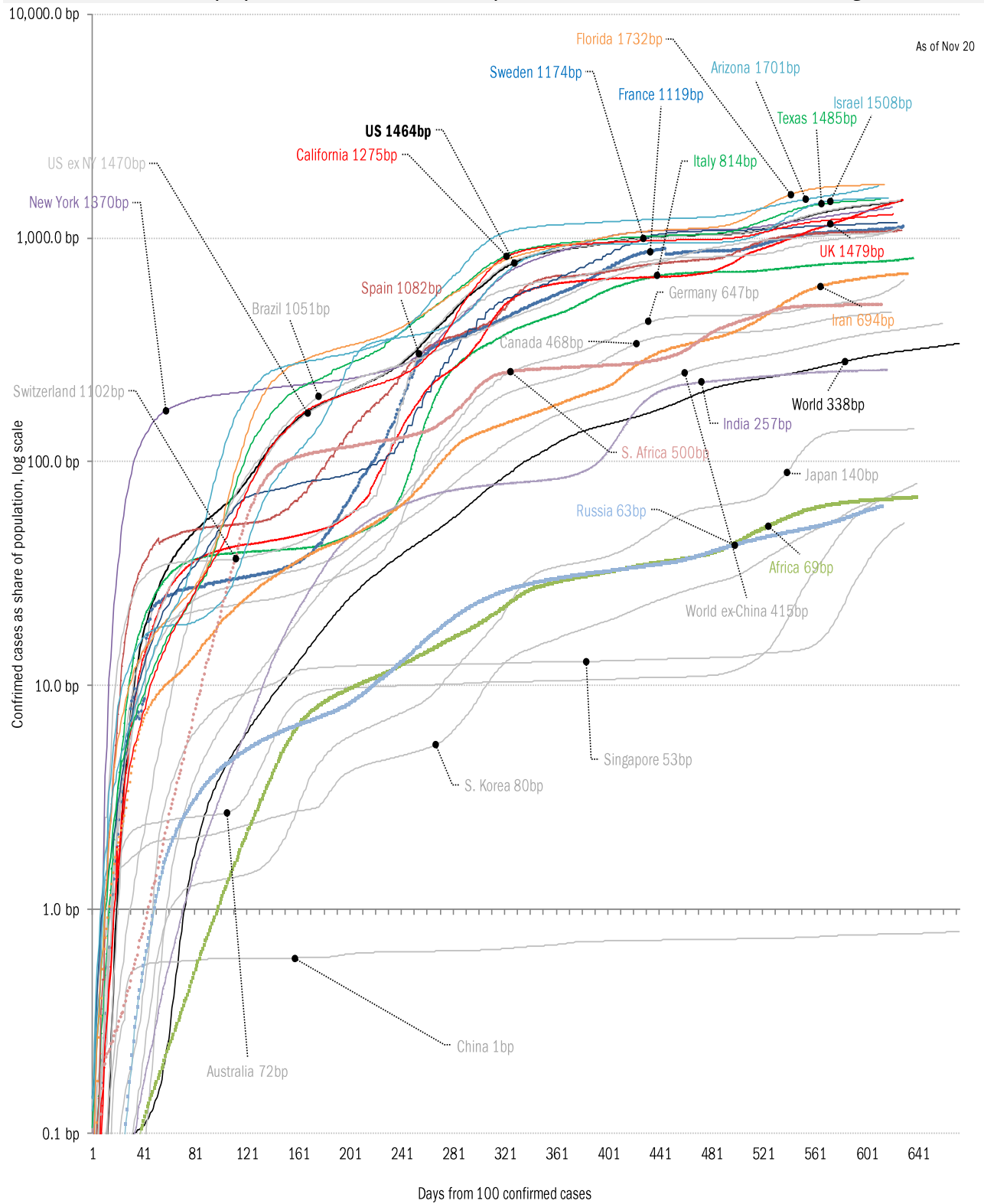
Melissa Eddy
New York Times
November 20, 2021

Meme of the day



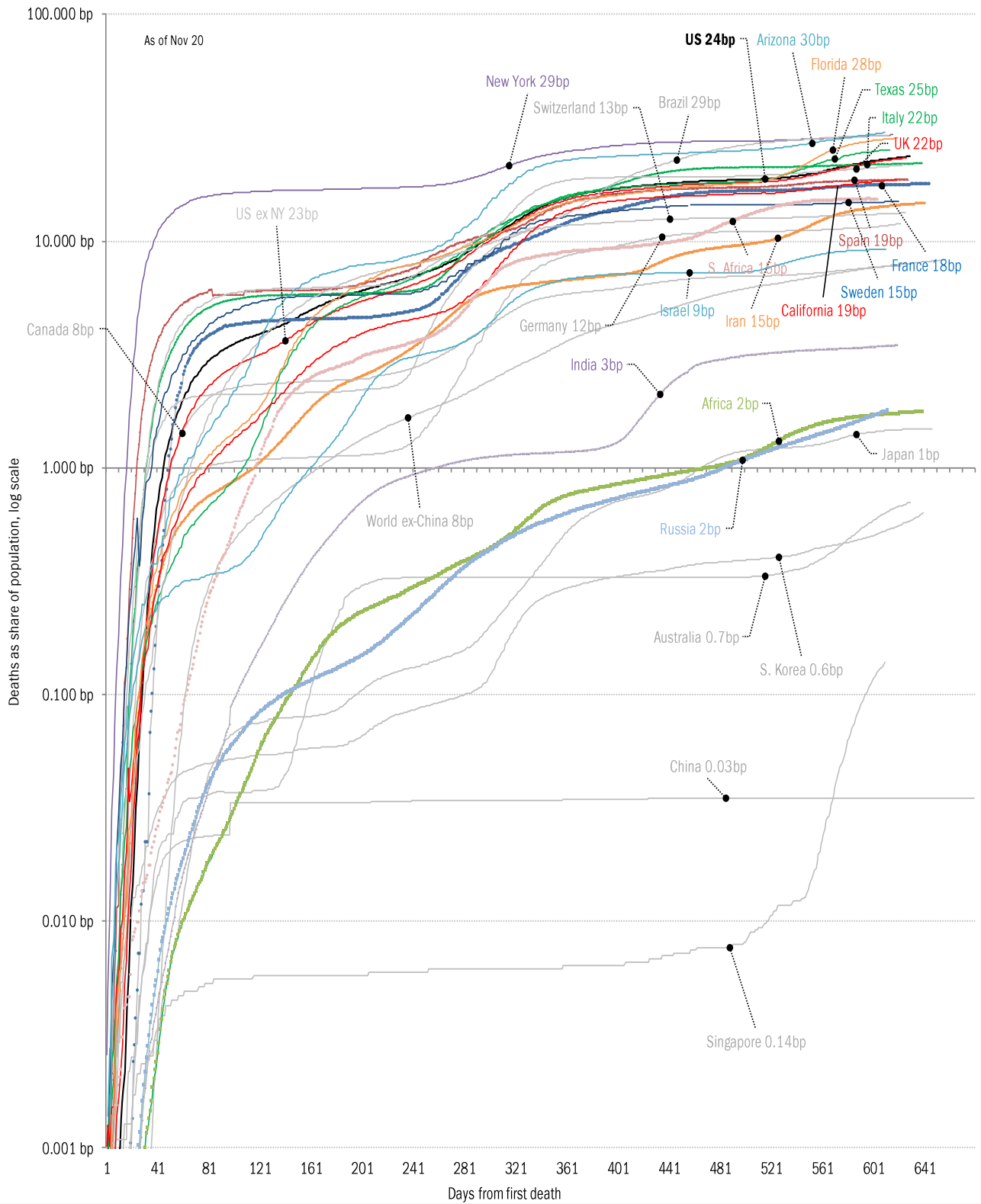
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

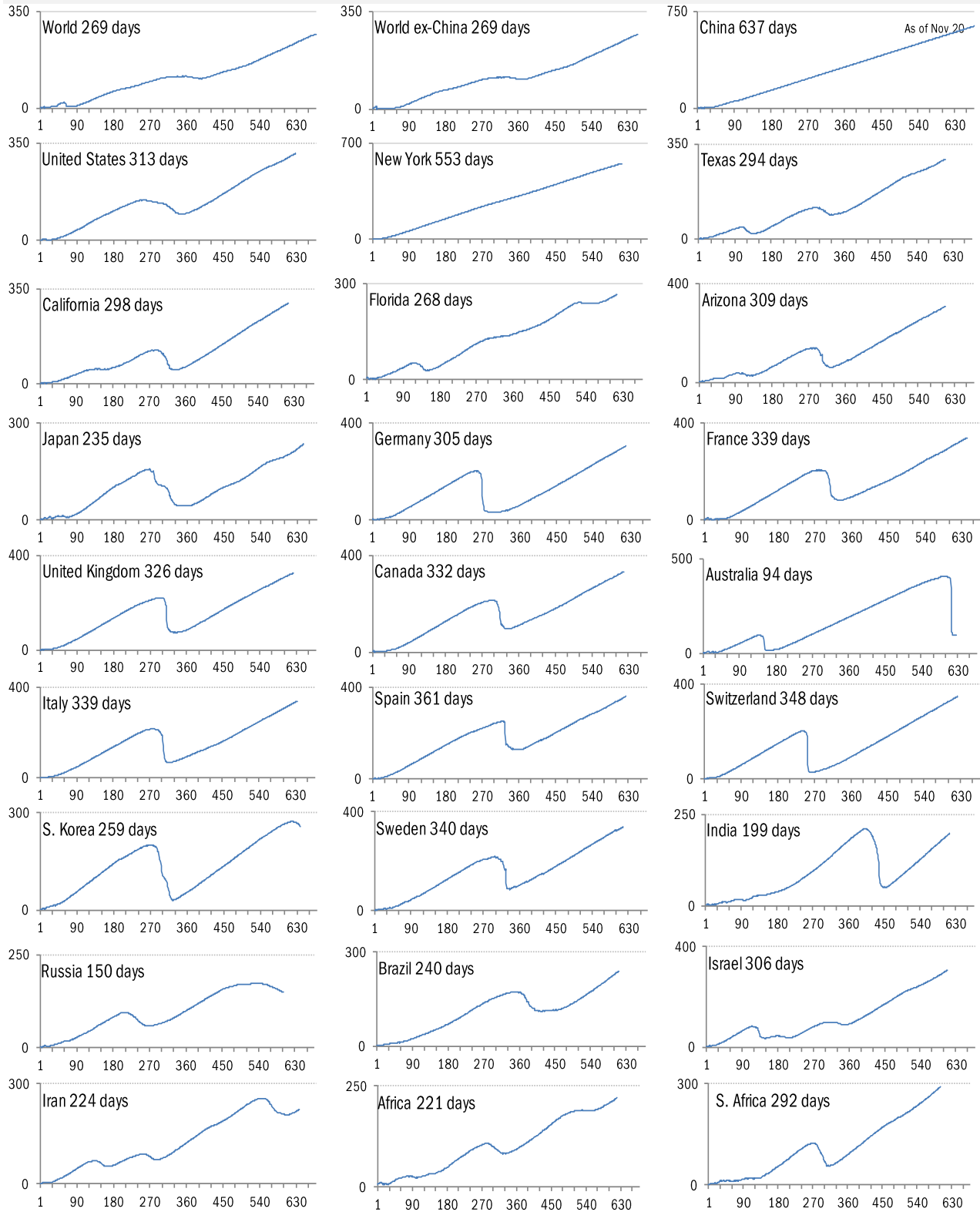


Source: [Johns Hopkins](#), TrendMacro calculations

"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

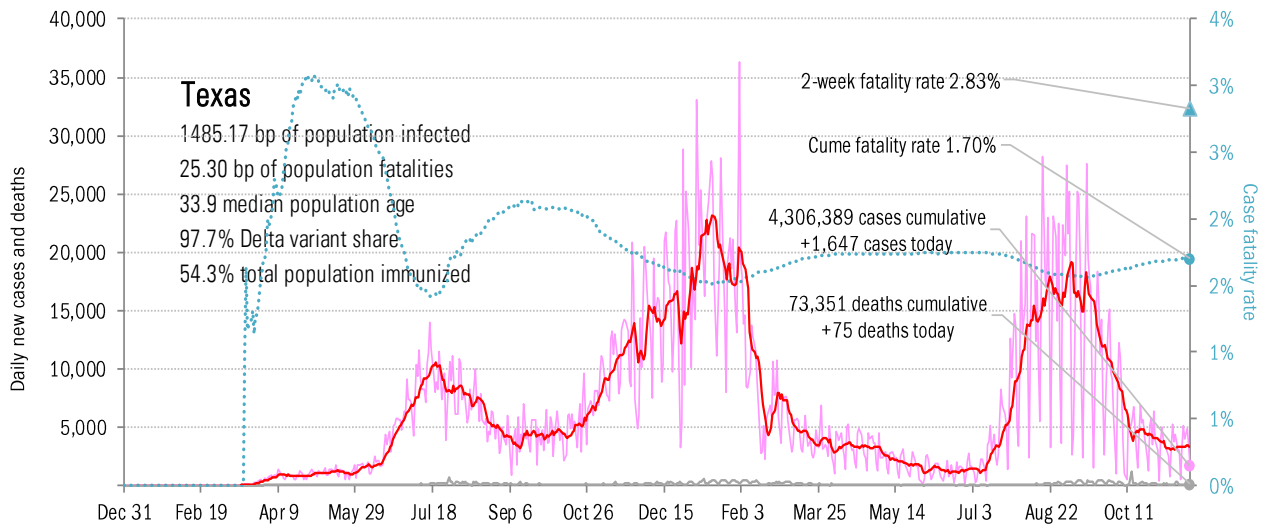
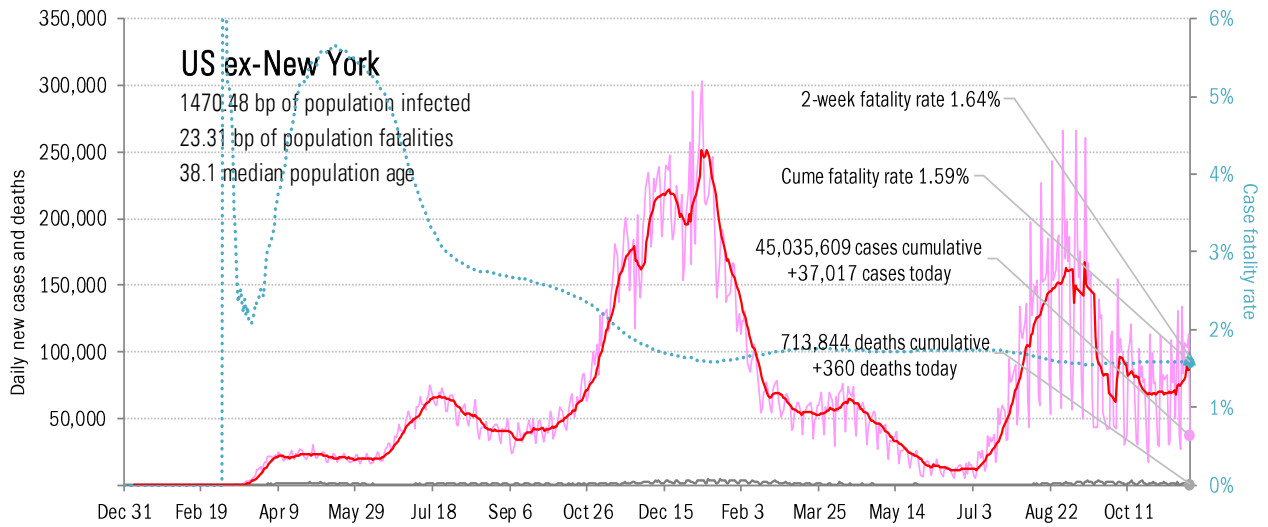
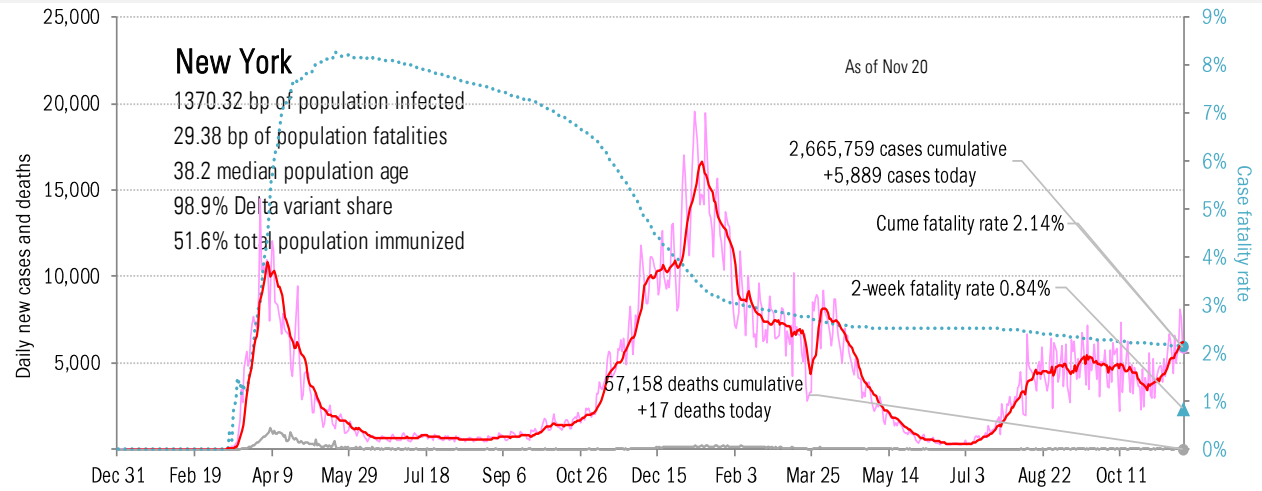
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

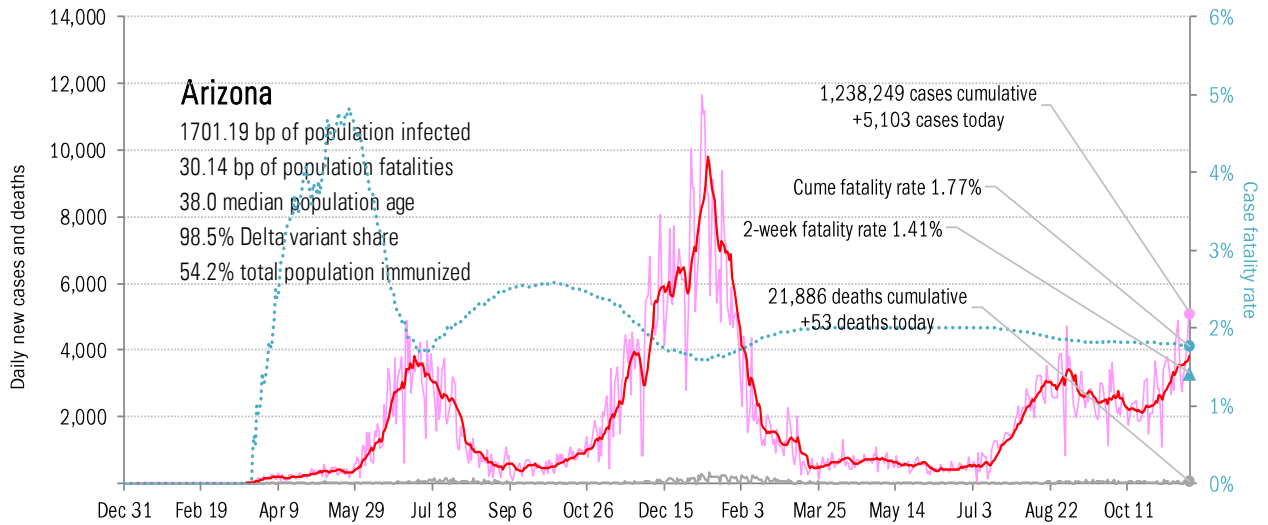
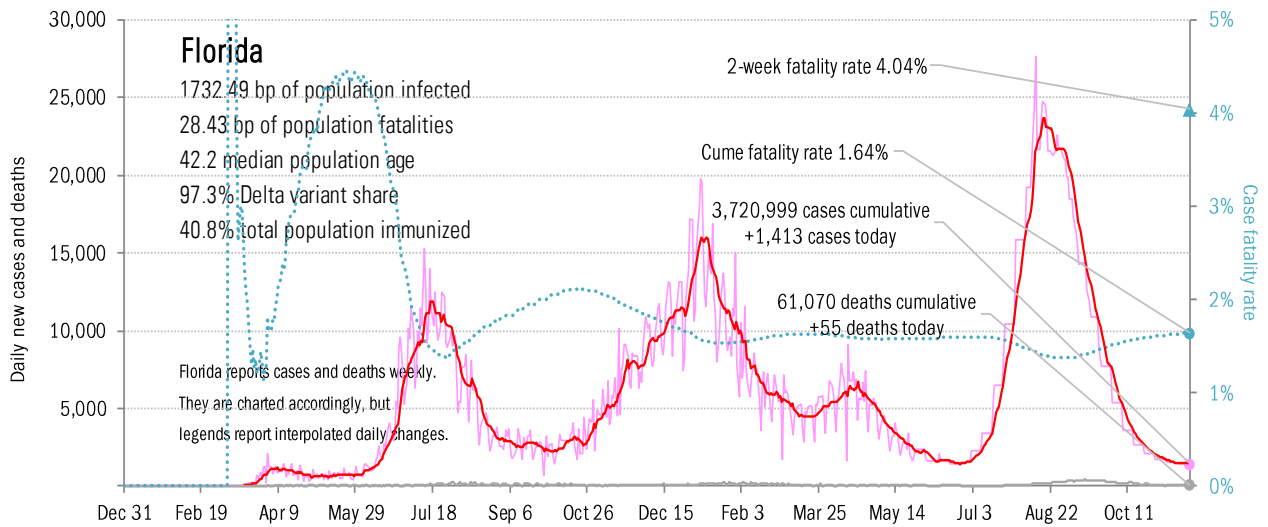
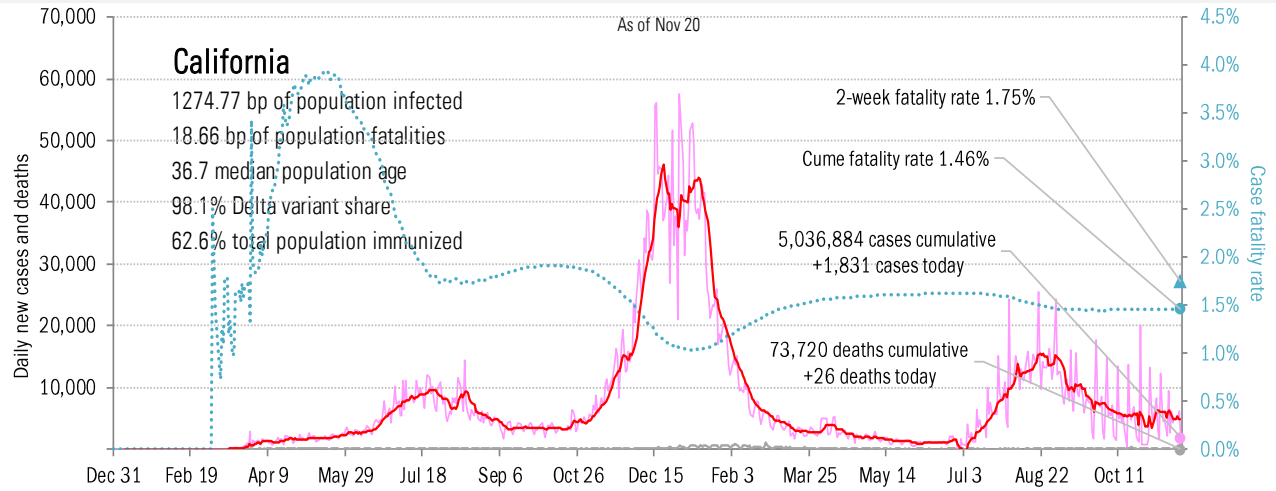
Cases: 7-day average and daily Deaths: Daily



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

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

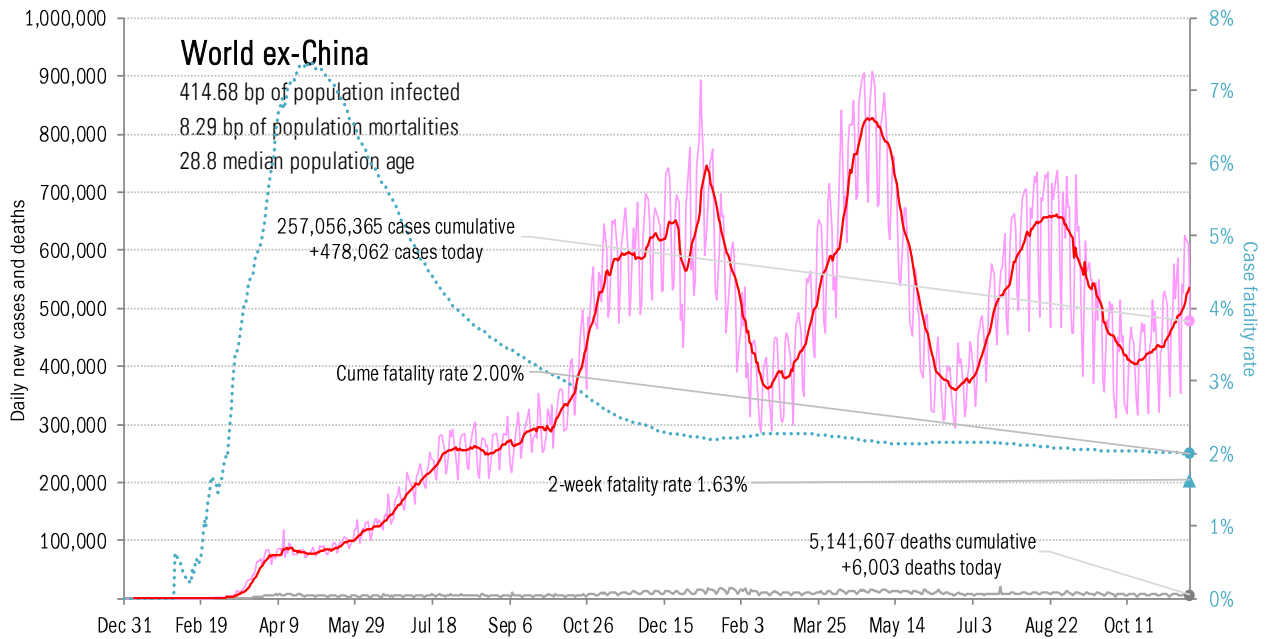
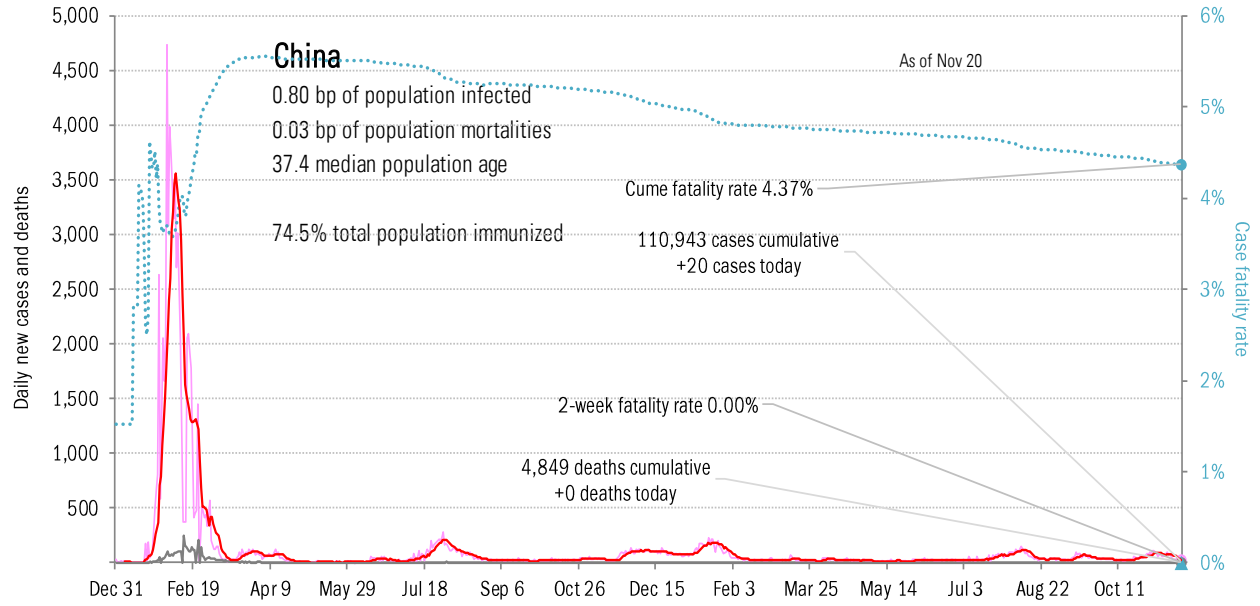
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

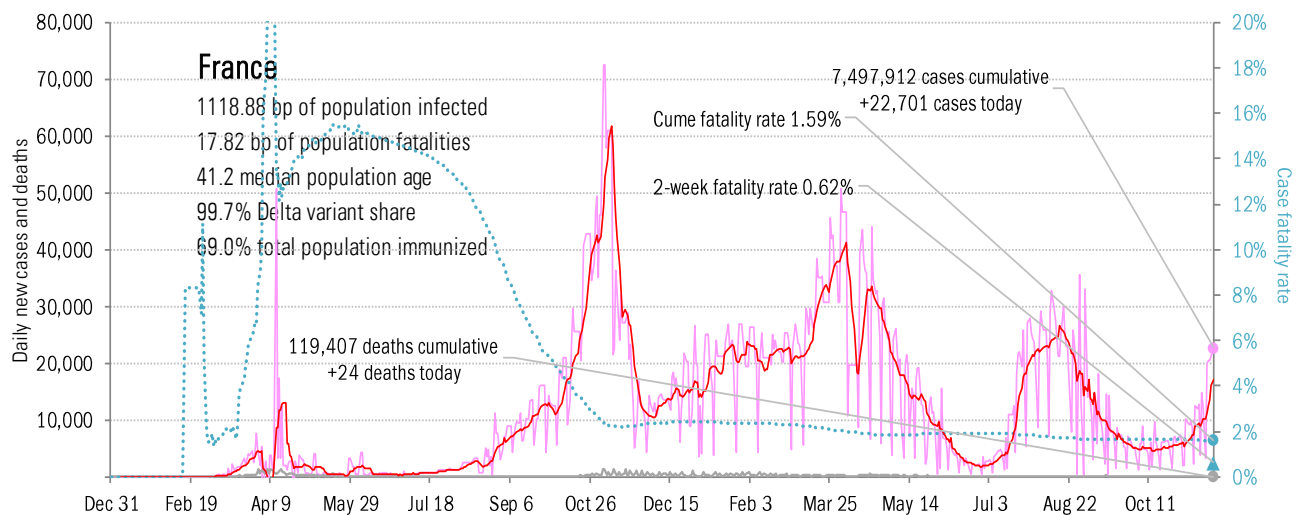
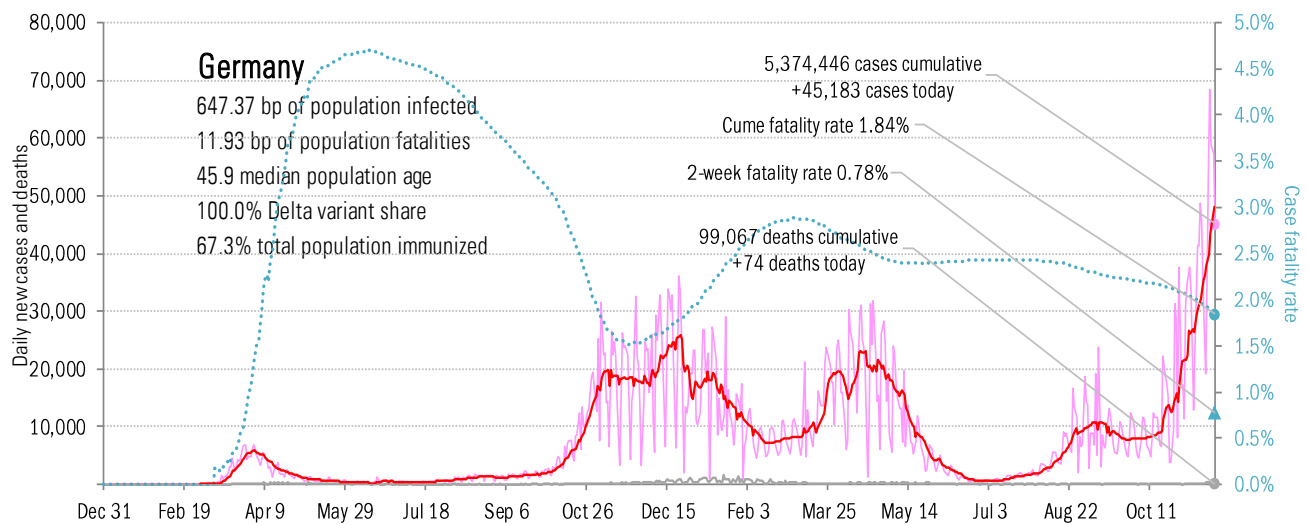
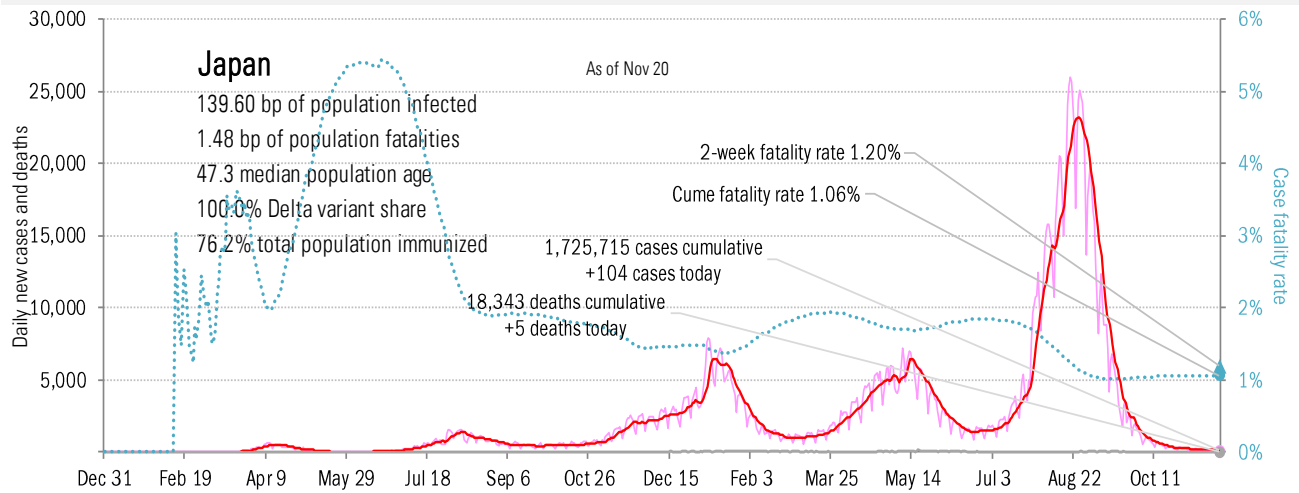
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

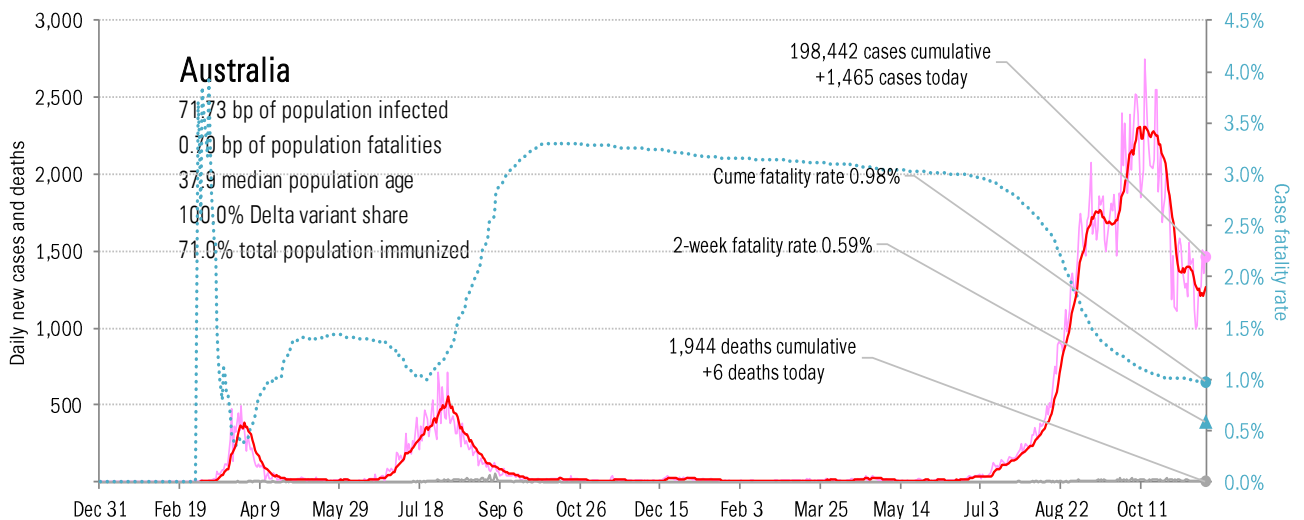
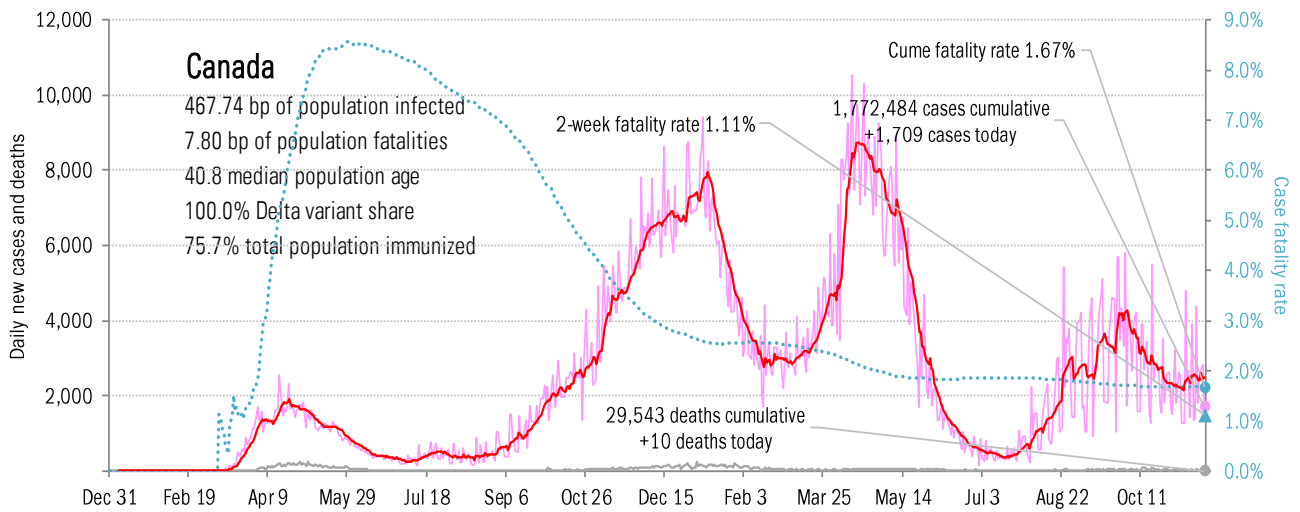
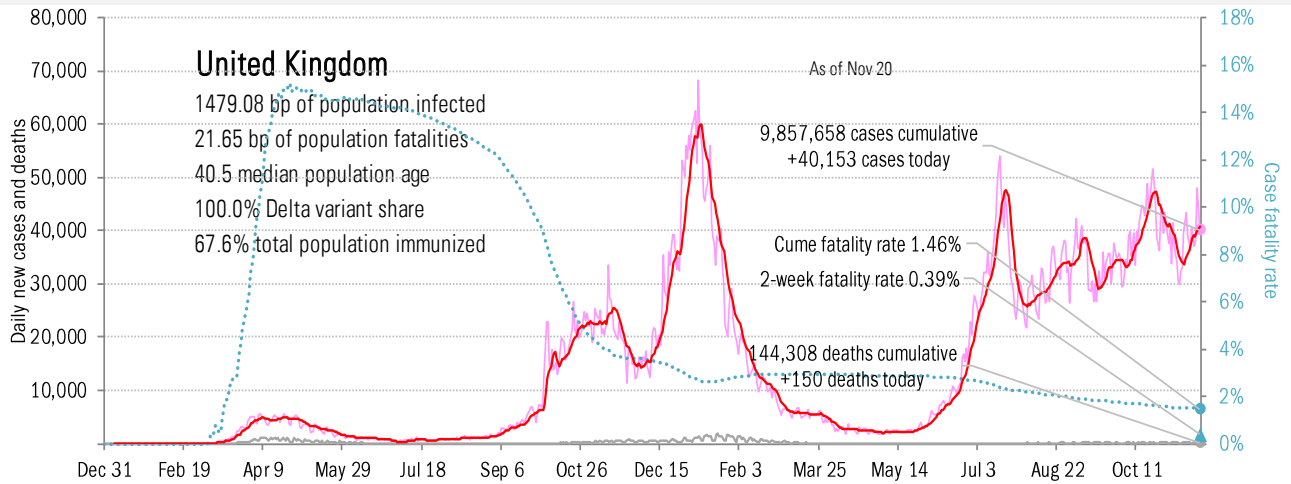
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

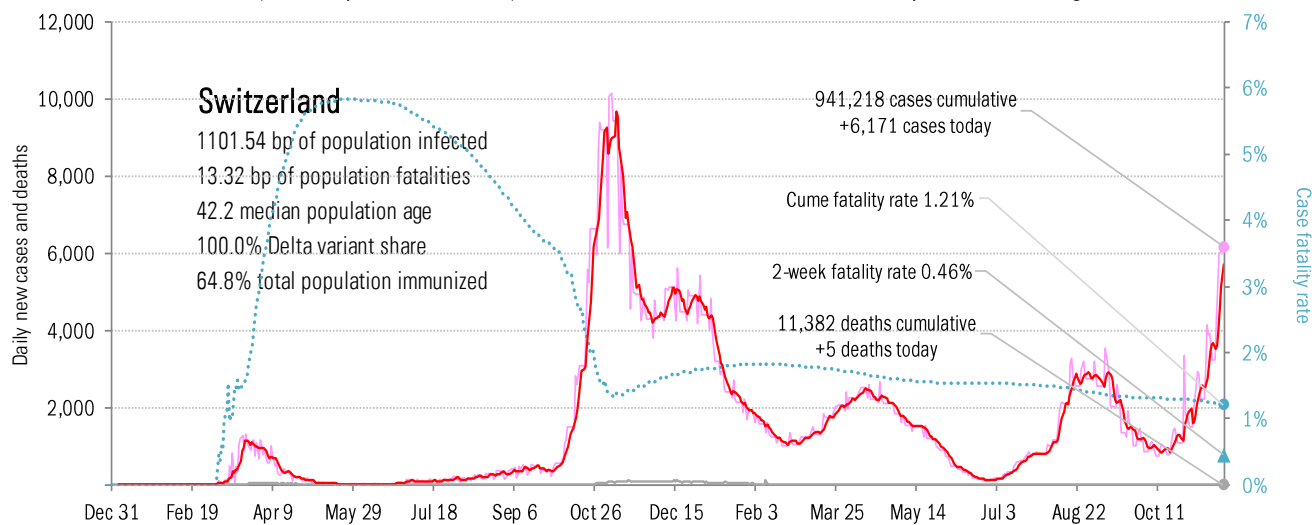
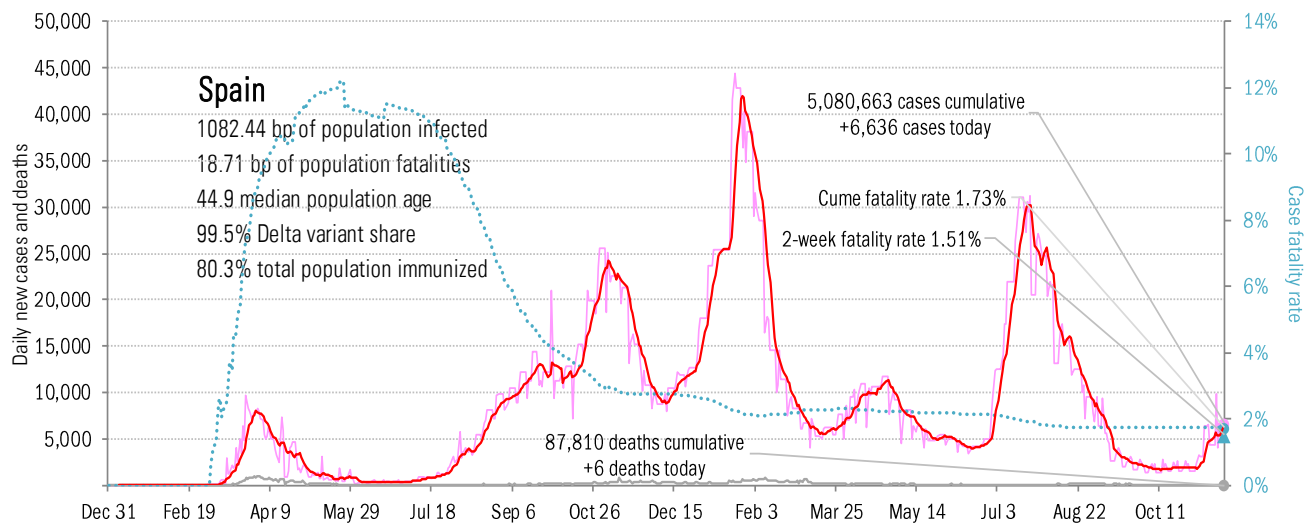
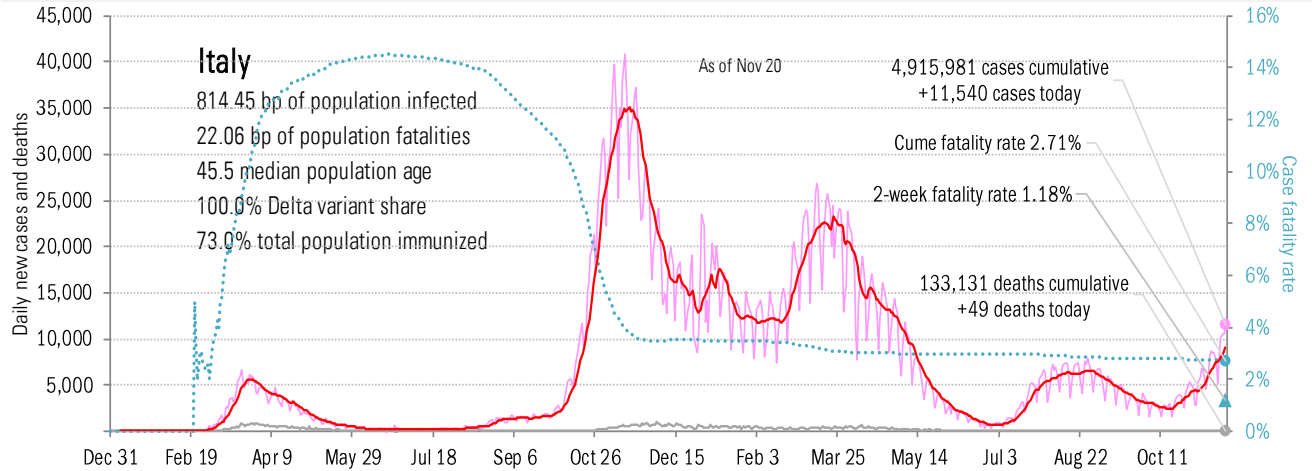
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

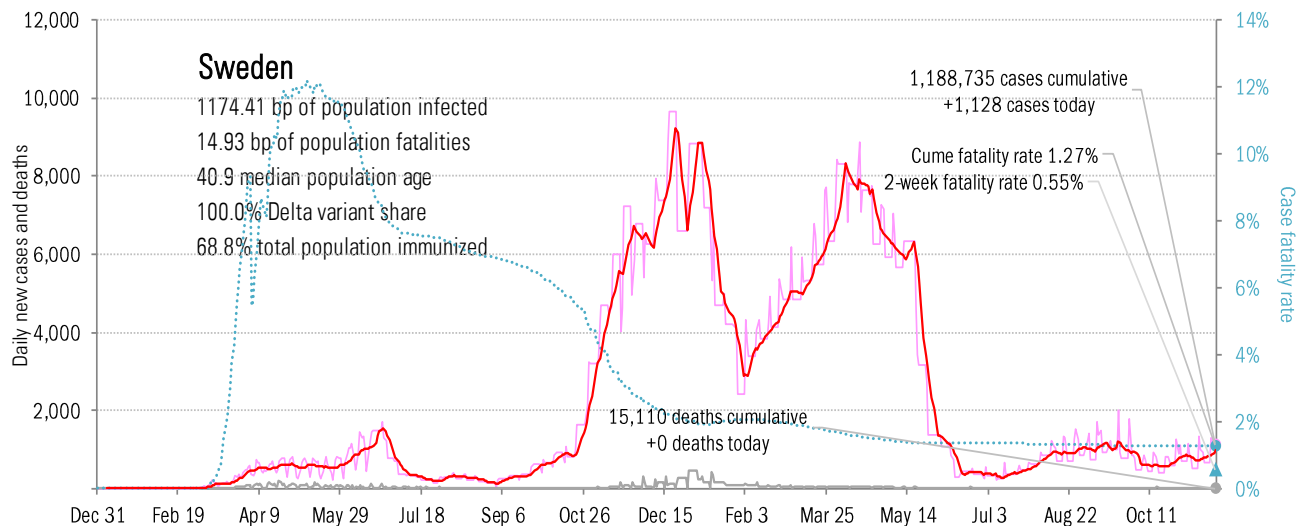
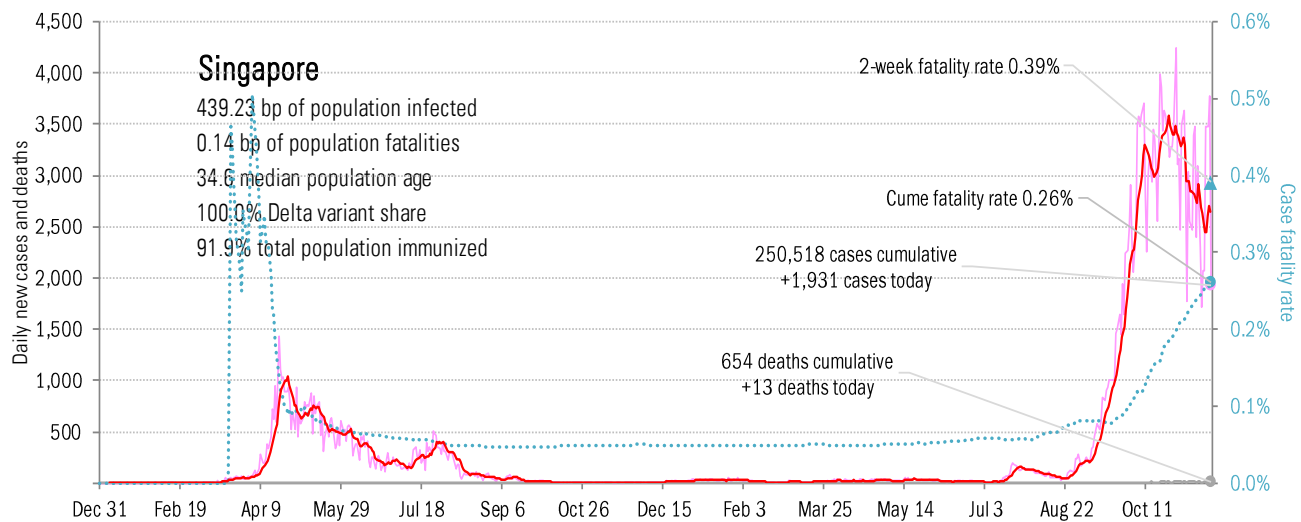
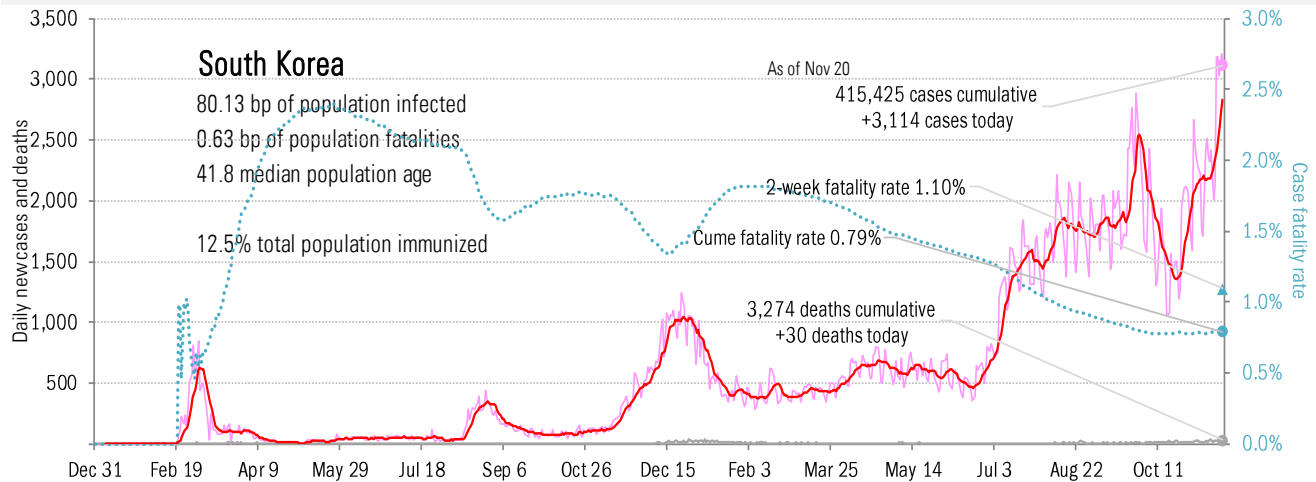
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

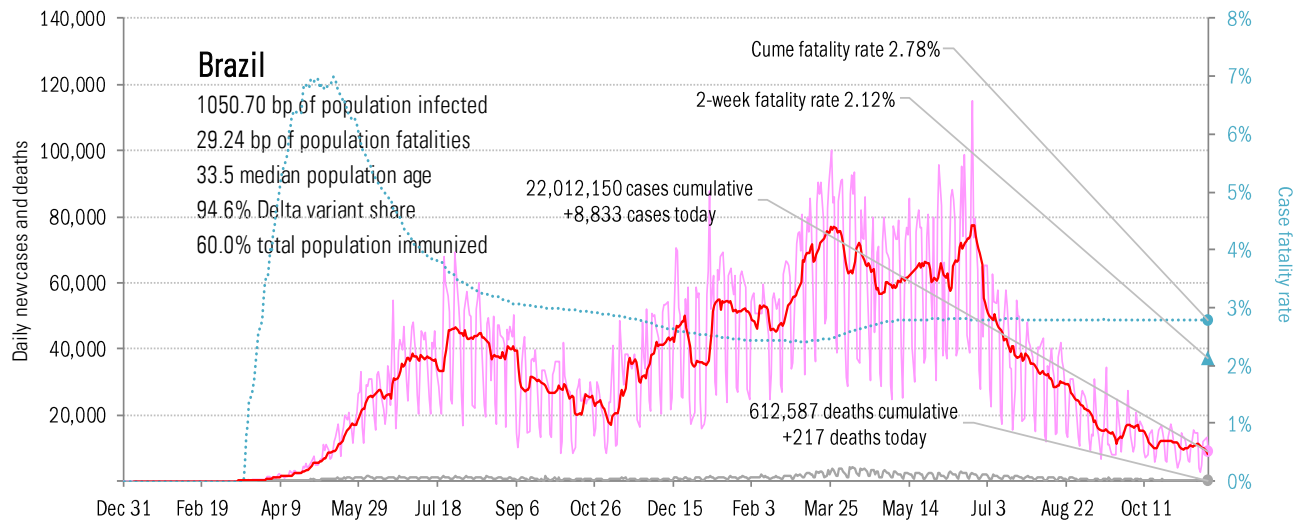
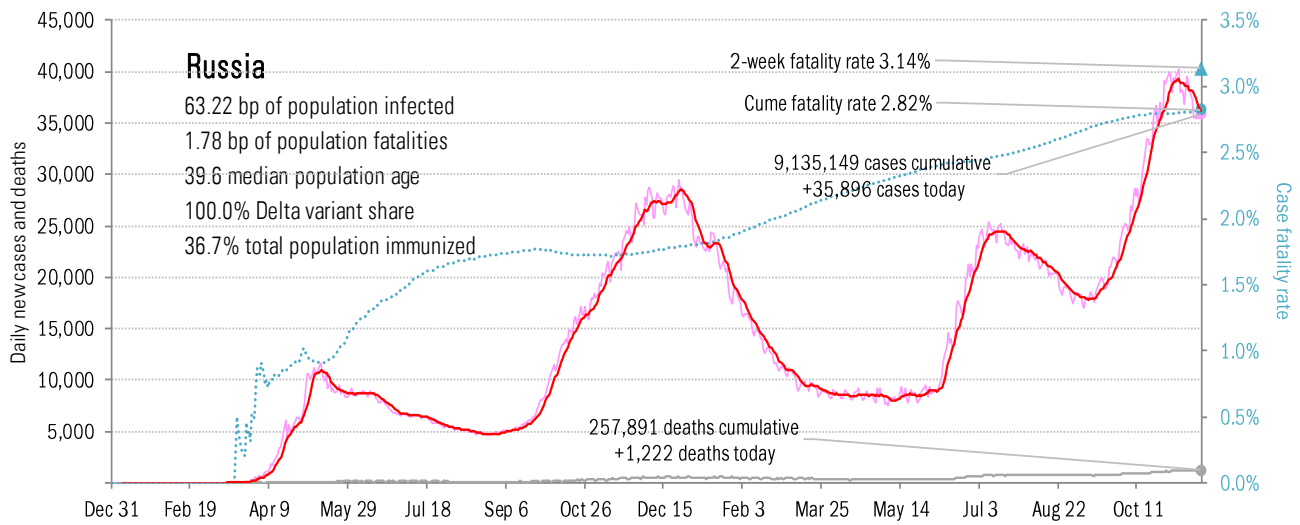
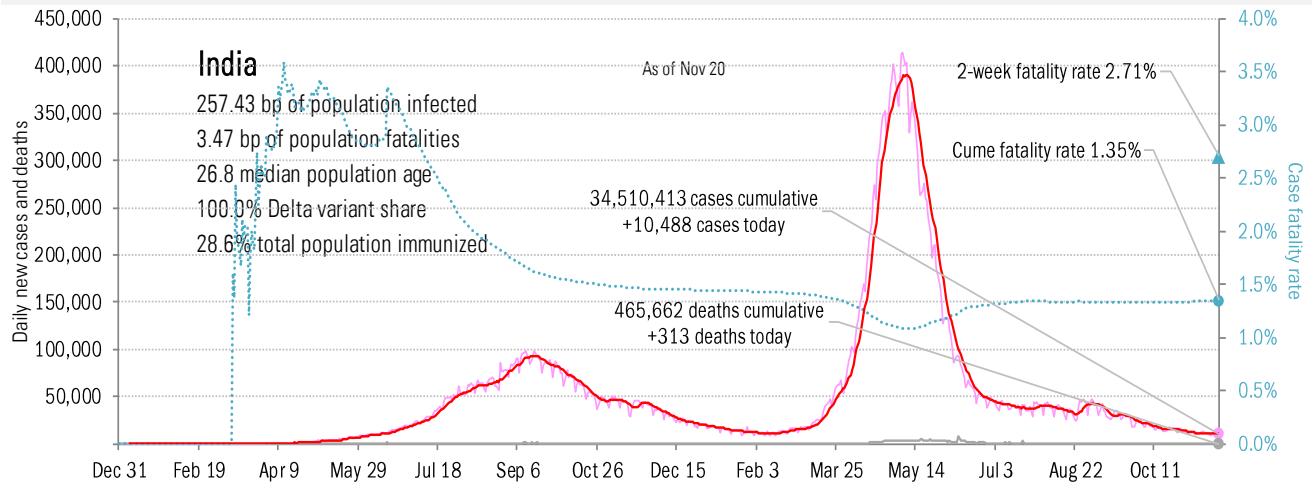
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

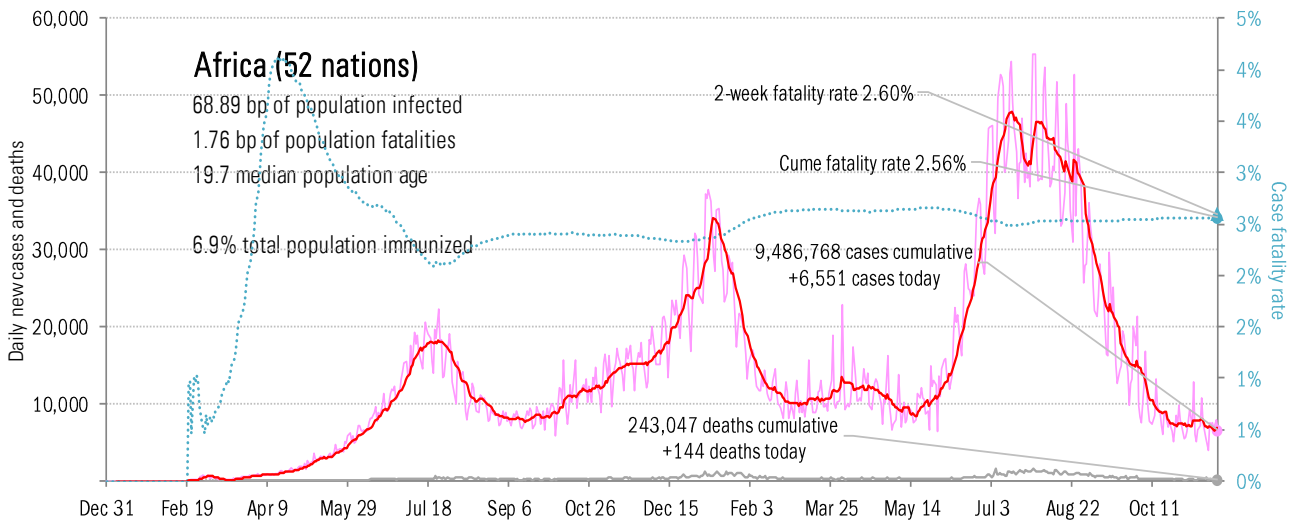
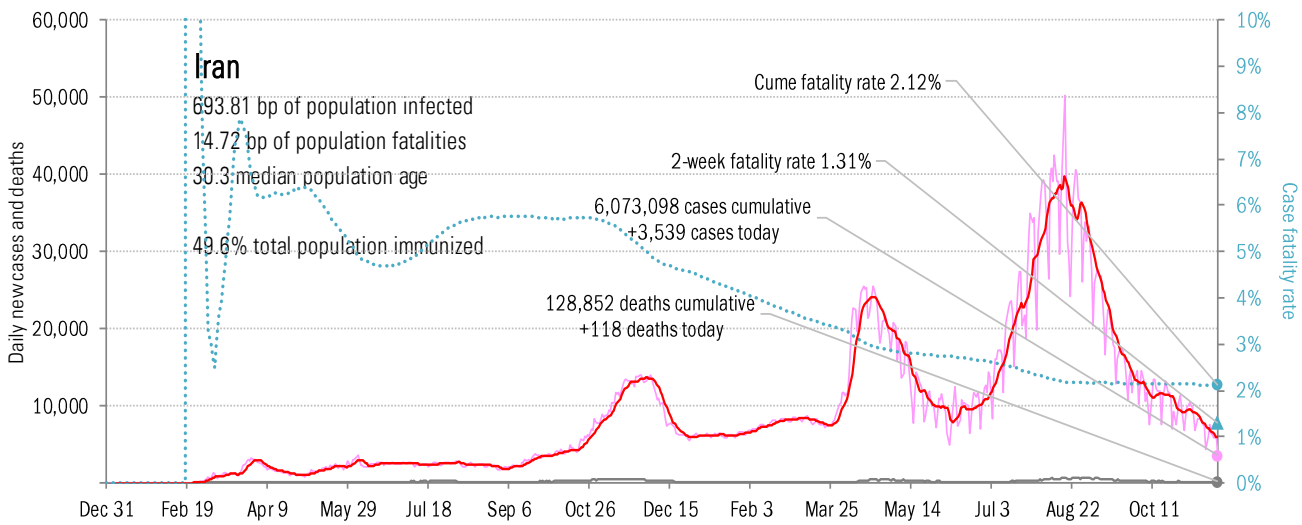
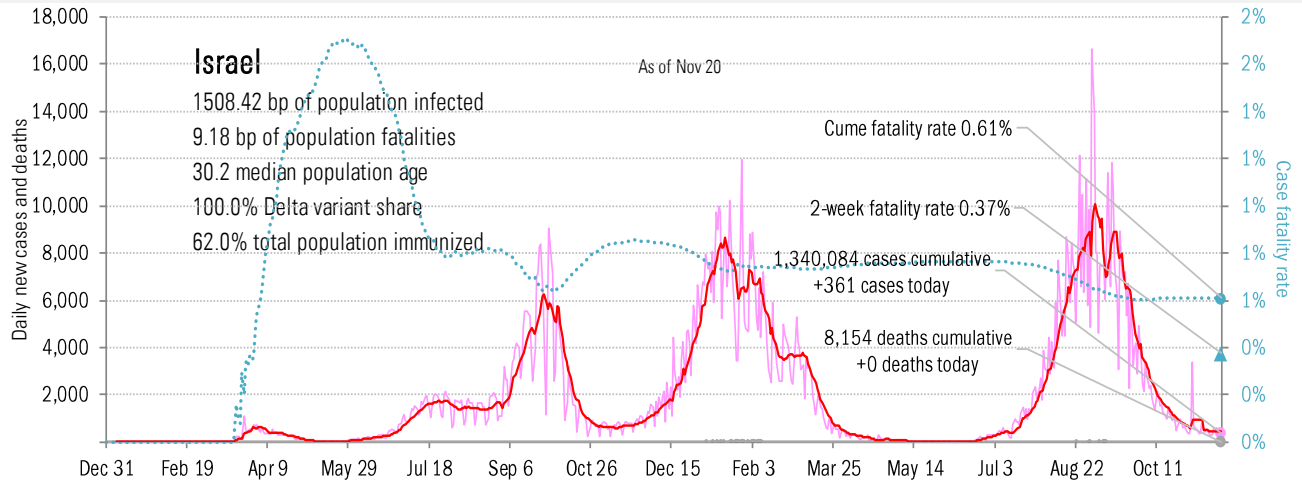
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

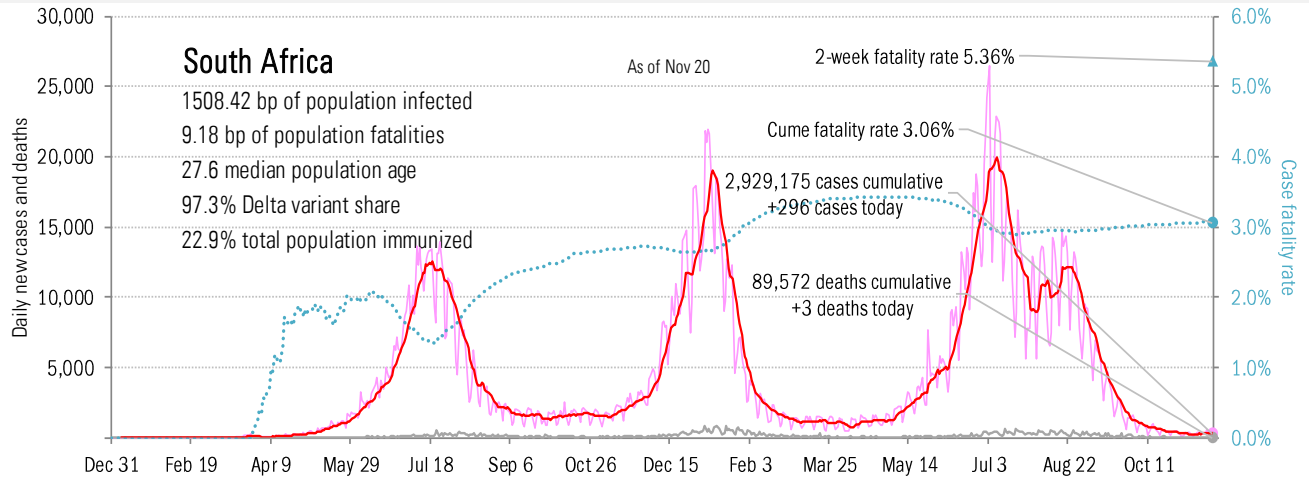
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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