

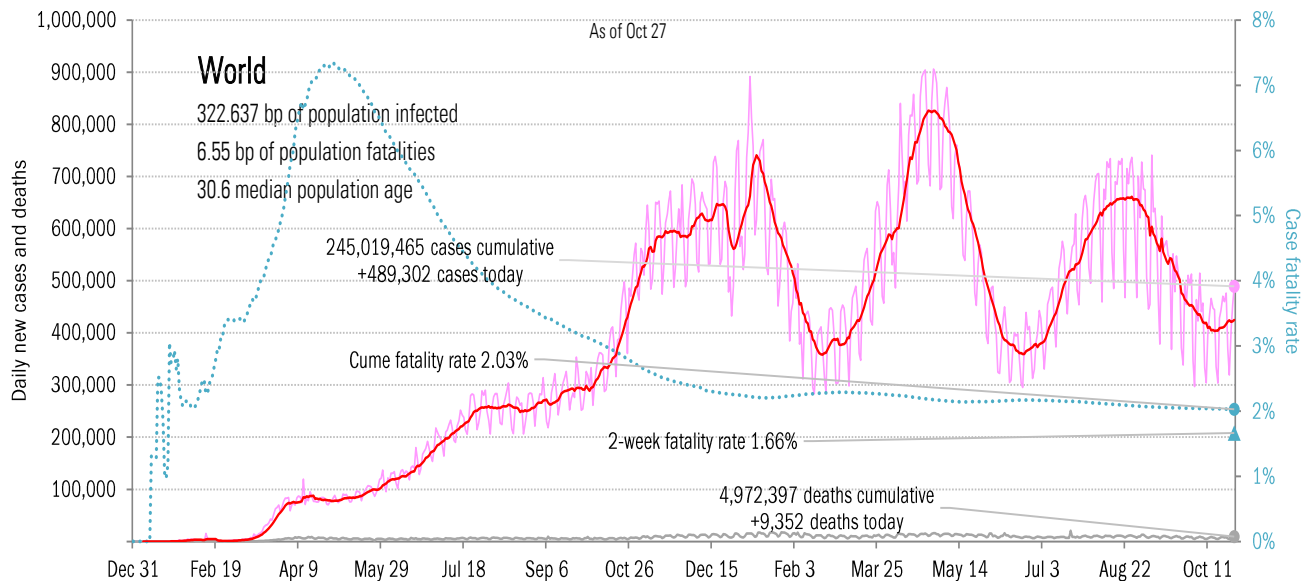
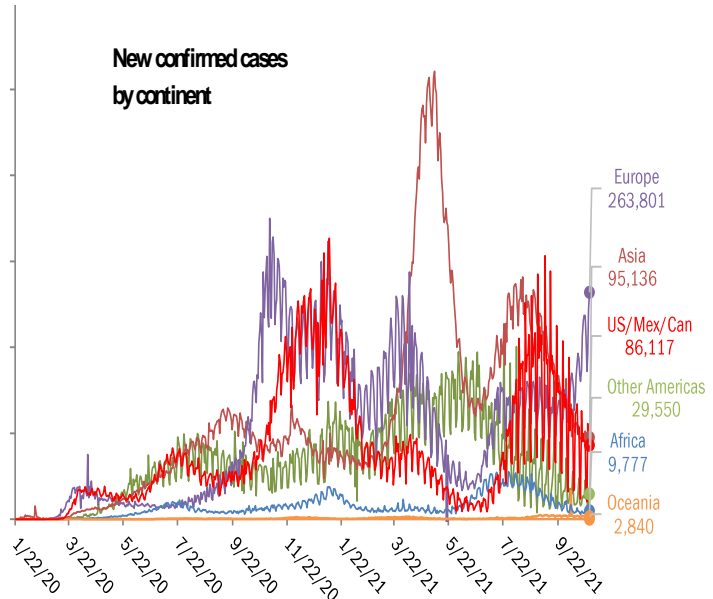
Data Insights: Covid-2019 Monitor

Thursday, October 28, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

| The worst ten countries | | | |
|-------------------------|---------|----------------|--------|
| New cases | | New Deaths | |
| United States | +79,038 | United States | +2,254 |
| United Kingdom | +44,122 | Russia | +1,091 |
| Russia | +35,575 | India | +733 |
| Germany | +28,826 | Ukraine | +724 |
| Turkey | +26,896 | Romania | +512 |
| Ukraine | +23,581 | Brazil | +433 |
| Brazil | +17,184 | Mexico | +392 |
| India | +16,156 | Philippines | +271 |
| Romania | +14,950 | Turkey | +210 |
| Iran | +10,644 | United Kingdom | +209 |
| +296,972 | | +6,829 | |
| World +489,302 | | World +9,352 | |
| Top ten 61% | | 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

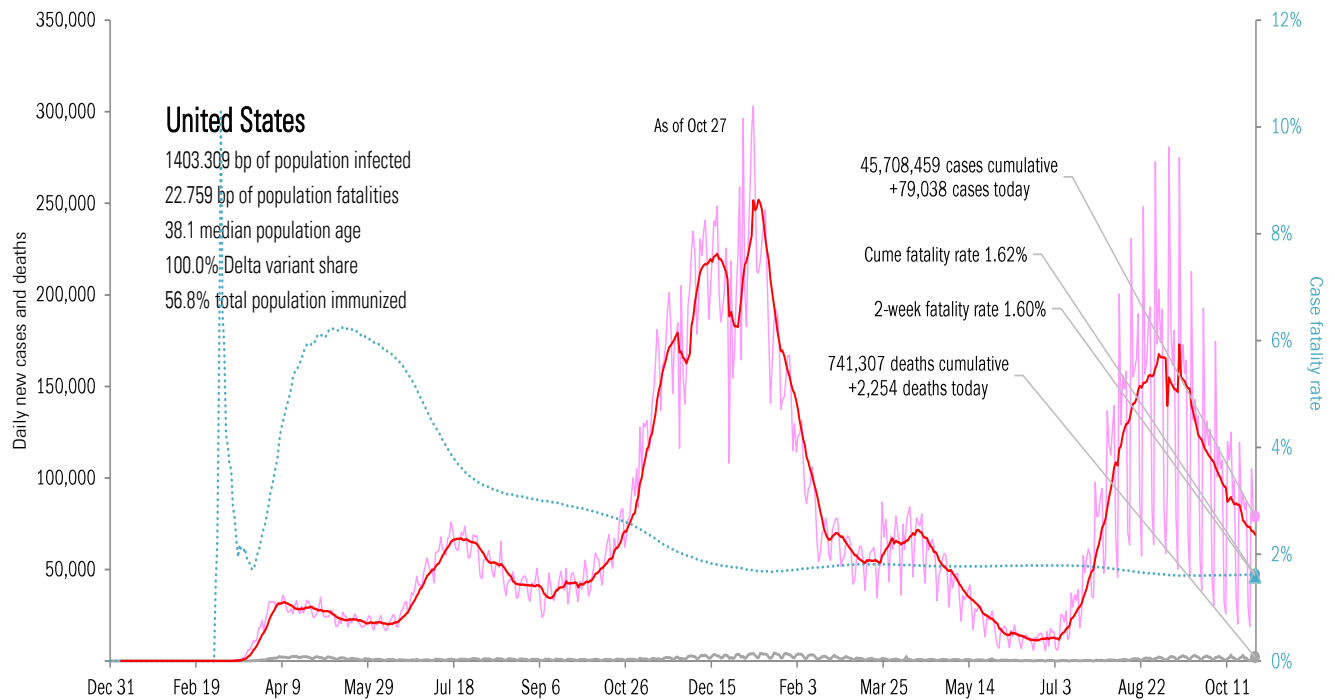
The ten worst US states

| New cases | | | New Deaths | | | New in hospital | | | Cum cases | | | Cum deaths | | | Cum in hospital | | | Hospital use | | ICU use | |
|----------------|---------|--|---------------|------|--|-----------------|-----|--|-------------------|------------|--|----------------|--------|--|------------------|---------|--|--------------|-----|------------|-----|
| MI | +9,786 | | NE | +481 | | CA | +81 | | CA | 4,854,041 | | CA | 71,417 | | TX | 373,080 | | RI | 87% | NM | 90% |
| AL | +7,393 | | TX | +232 | | AZ | +44 | | TX | 4,224,781 | | TX | 70,718 | | FL | 317,402 | | PA | 86% | ID | 90% |
| IA | +6,983 | | CK | +170 | | GA | +29 | | FL | 3,683,142 | | FL | 59,009 | | CA | 308,205 | | MA | 85% | NE | 89% |
| AZ | +6,299 | | MI | +160 | | NM | +25 | | NY | 2,544,431 | | NY | 56,341 | | NY | 162,678 | | WA | 83% | AL | 88% |
| PA | +4,178 | | PA | +142 | | CO | +22 | | IL | 1,690,274 | | PA | 31,197 | | GA | 158,721 | | GA | 82% | CO | 88% |
| NY | +4,176 | | IA | +117 | | MI | +18 | | GA | 1,631,348 | | GA | 28,860 | | CH | 121,943 | | MD | 82% | TX | 87% |
| CH | +3,839 | | GA | +113 | | SD | +12 | | PA | 1,548,641 | | IL | 28,140 | | PA | 115,332 | | MI | 81% | KY | 87% |
| TX | +3,479 | | FL | +113 | | IA | +10 | | CH | 1,531,815 | | NJ | 27,929 | | KY | 110,609 | | SC | 81% | NV | 87% |
| CO | +3,385 | | KS | +102 | | UT | +10 | | NC | 1,472,655 | | CH | 24,164 | | IL | 104,052 | | NY | 81% | RI | 85% |
| NE | +3,311 | | AZ | +81 | | HI | +9 | | TN | 1,277,517 | | MI | 23,526 | | MI | 90,144 | | ND | 80% | NH | 84% |
| +52,829 | | | +1,711 | | | +260 | | | 24,458,645 | | | 421,291 | | | 1,862,166 | | | | | | |
| All states | +79,038 | | +2,254 | | | -374 | | | All states | 45,708,459 | | 741,307 | | | 3,325,339 | | | All states | 70% | 67% | |
| Top ten | 67% | | 76% | | | -70% | | | Top ten | 53% | | 57% | | | 56% | | | Median | 76% | 78% | |

Some states not reporting

Five most improved US states

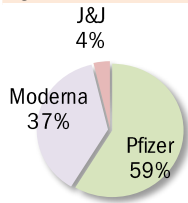
| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | | Most pop immunity growth | |
|-------------------|---------|------------------|------|----------------------------|-----|--------------------------|--------|
| CA | -34,345 | CA | -398 | TX | -43 | MS | +20 bp |
| MN | -4,723 | CH | -209 | NH | -38 | SD | +20 bp |
| TN | -2,439 | TN | -32 | MS | -32 | AL | +10 bp |
| TX | -2,284 | MS | -31 | AR | -24 | CA | +10 bp |
| MS | -1,326 | MT | -30 | ID | -22 | 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 | 427,844,443 | | +1.165 million | | US | 56.8% | 65.7% | |
| | One dose | % Pop | Immune | % pop | New immune today | UK | 66.9% | 73.0% |
| Total population | 226,583,772 | 68% | 195,990,313 | 59% | +0.202 million | France | 67.8% | 75.7% |
| Age 12 to 17 | 14,180,161 | 60% | 11,759,705 | 49% | +0.018 million | Spain | 79.7% | 81.3% |
| Age 18 to 64 | 156,670,145 | 77% | 135,308,112 | 67% | +0.149 million | Germany | 65.9% | 68.7% |
| Age 65 and over | 54,626,660 | 100% | 48,009,539 | 88% | +0.034 million | Italy | 71.1% | 77.1% |



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

Best
Middle
Worst

Every American >18 immunized in **58 days** by Dec 24, 2021
 71.0% of population >18 immunized
 16.3% previously tested positive
87.3% vs 60% adult herd immunity

| | | |
|-----------|-------|-------|
| Australia | 62.2% | 73.7% |
| Israel | 65.1% | 70.8% |
| Canada | 73.9% | 78.2% |
| Japan | 70.9% | 77.3% |
| Africa | 5.6% | 8.5% |
| India | 22.5% | 51.9% |
| Brazil | 55.3% | 74.4% |
| China | 73.9% | 76.2% |

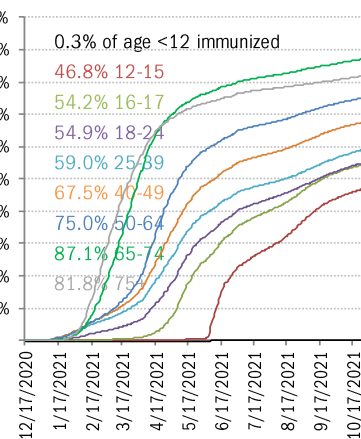
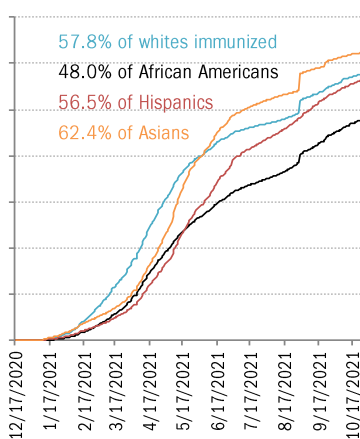
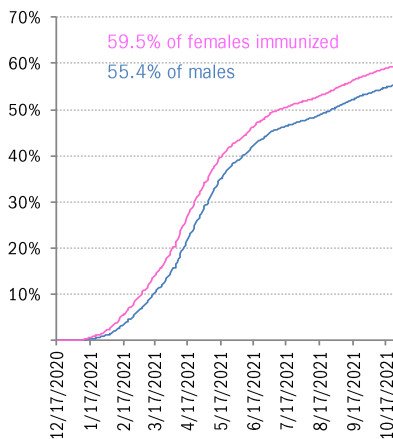
| AK |
|-------|
| 59.1% |
| 52.4% |

As of Oct 27

Global data differs due to sources, timing

| WI | ME |
|--------------------|--------------------|
| 62.4% | 76.2% |
| 58.1% | 70.3% |
| WA: 69.1% 63.3% | ID: 48.8% 43.6% |
| MT: 56.6% 50.2% | ND: 52.9% 45.7% |
| MN: 64.9% 59.6% | IL: 69.6% 54.4% |
| MI: 58.0% 53.4% | NY: 73.8% 66.3% |
| OR: 68.1% 62.6% | NV: 63.0% 52.7% |
| WY: 50.6% 43.7% | SD: 61.5% 52.4% |
| IA: 59.4% 55.4% | IN: 53.5% 49.7% |
| OH: 55.6% 51.7% | PA: 76.7% 60.2% |
| CA: 74.1% 61.0% | UT: 60.8% 53.2% |
| CO: 67.4% 61.3% | NE: 60.8% 56.1% |
| MO: 56.5% 49.5% | KY: 62.6% 54.6% |
| WV: 48.9% 41.0% | VA: 70.7% 62.8% |
| AZ: 61.0% 52.8% | NM: 71.7% 61.9% |
| KS: 62.1% 53.0% | AR: 57.7% 47.7% |
| TN: 54.3% 47.5% | NC: 63.6% 52.4% |
| SC: 57.2% 49.7% | DC: 73.9% 62.2% |
| DE: 68.8% 59.7% | OK: 59.1% 49.8% |
| LA: 53.6% 47.4% | MS: 51.9% 45.5% |
| AL: 54.2% 44.5% | GA: 56.7% 48.0% |
| TX: 61.1% 53.1% | FL: 68.8% 59.5% |
| VT: 79.3% 71.0% | MA: 79.7% 69.4% |
| NH: 75.1% 62.7% | RI: 77.7% 70.6% |
| HI: 78.5% 59.6% | PR: 81.8% 73.3% |

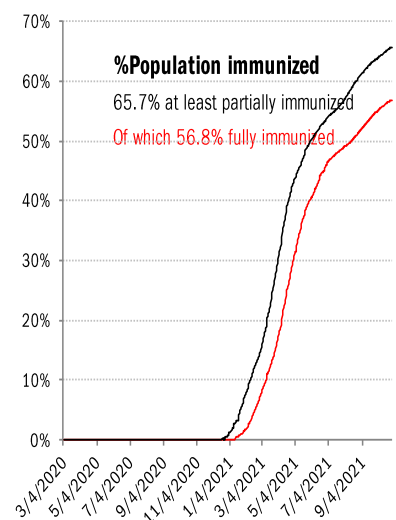
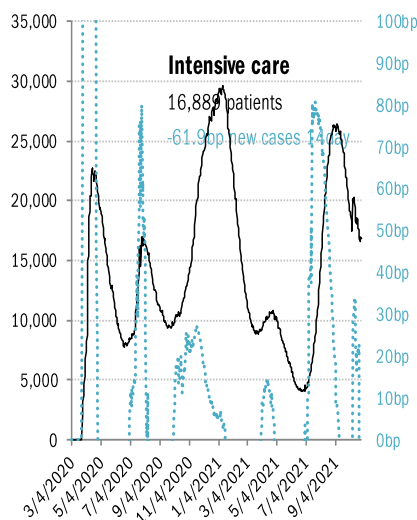
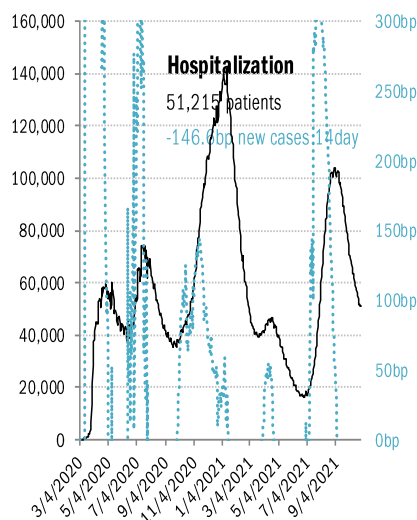
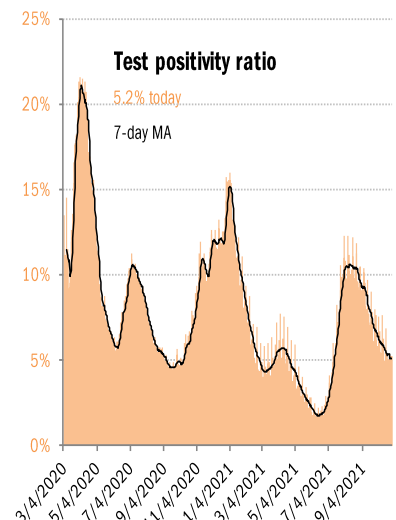
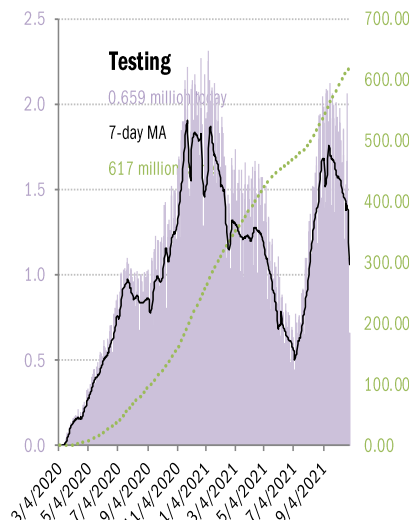
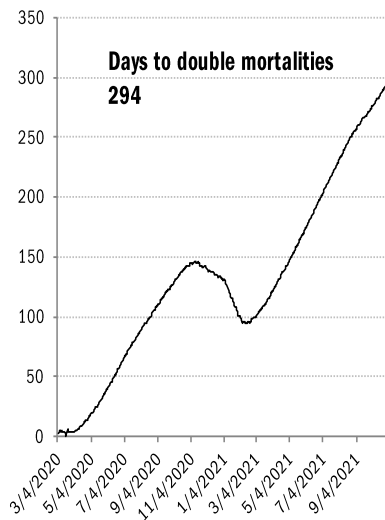
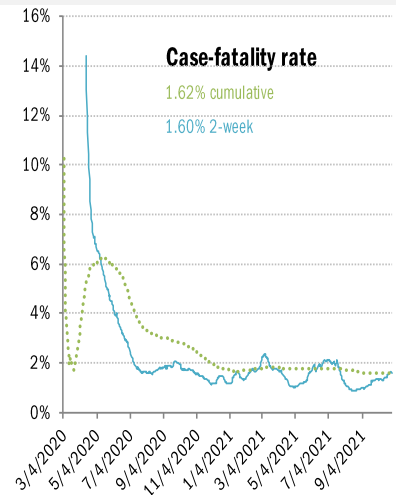
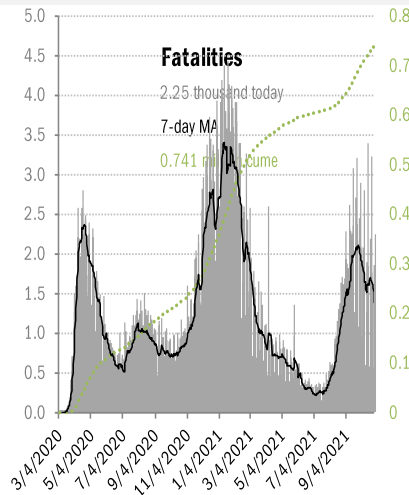
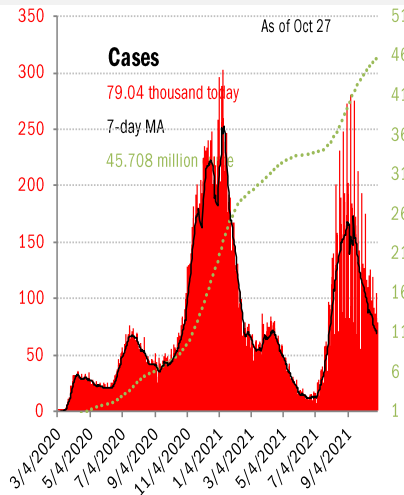
The demographics of US vaccination



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

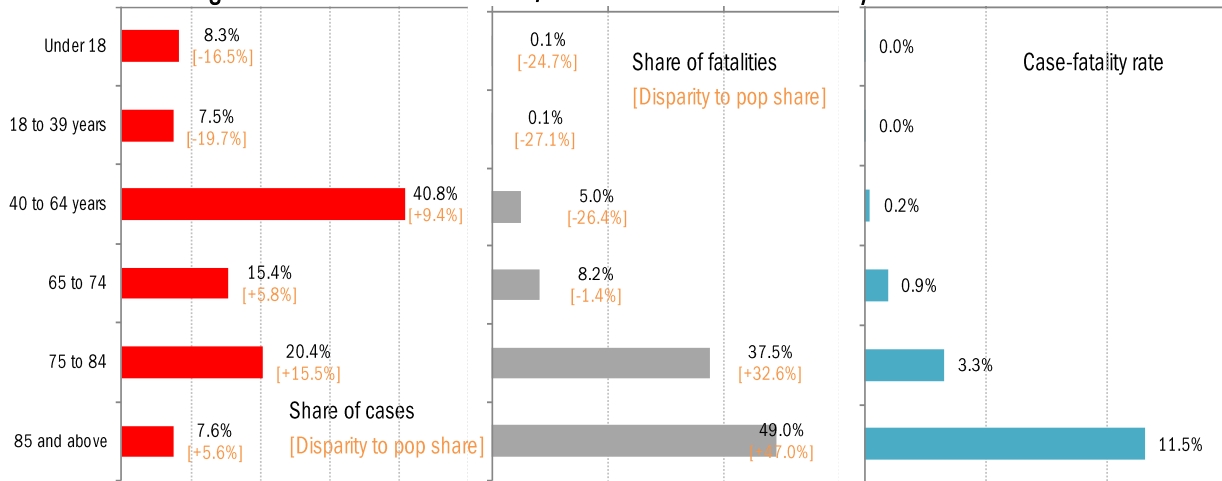
US deep-dive

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

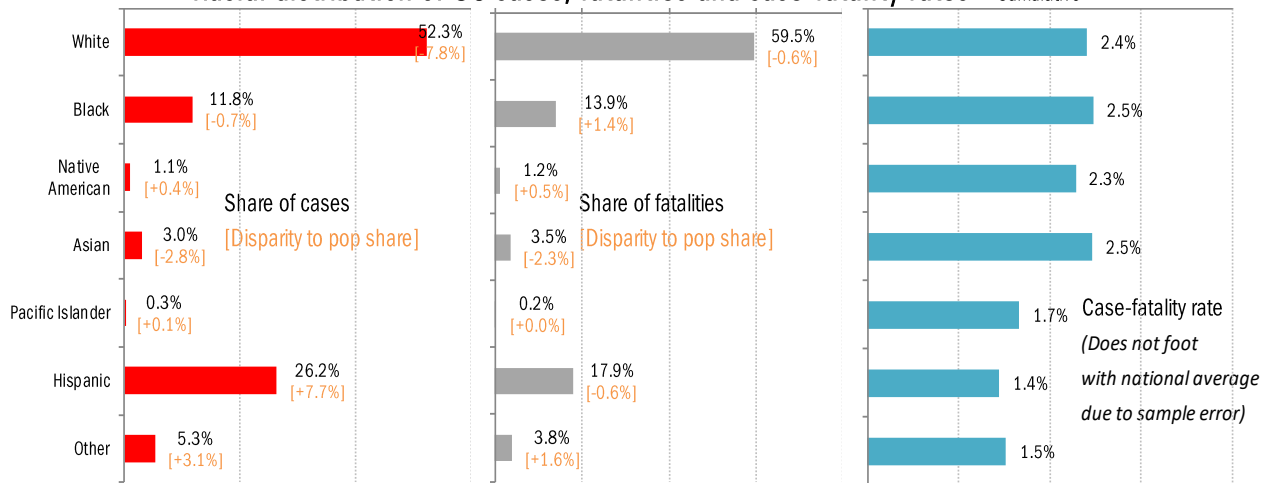


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

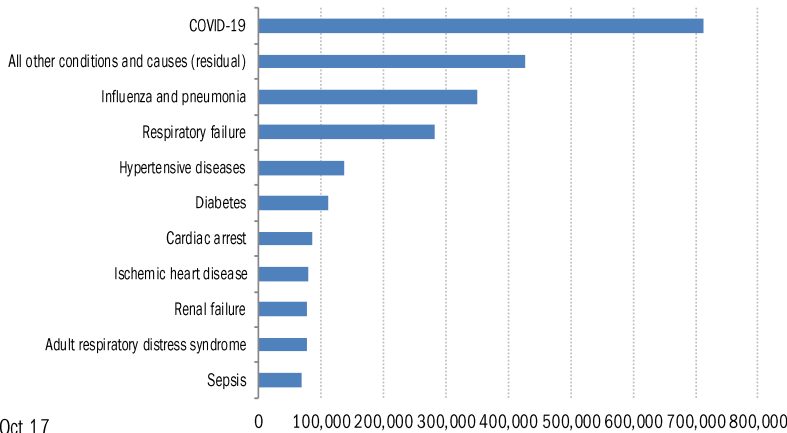


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Oct 17

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.

Recommended reading

[How Will We Live if Covid Is Here to Stay?](#)

Katherine Eban
New York Times
October 27, 2021

[CDC Director: Unvaccinated Police, Government Workers To Be Sent For "Education And Counseling"](#)

Steve Watson
Becker News
October 25, 2021

[Where Are the Wuhan Subpoenas?](#)

Wall Street Journal
October 27, 2021

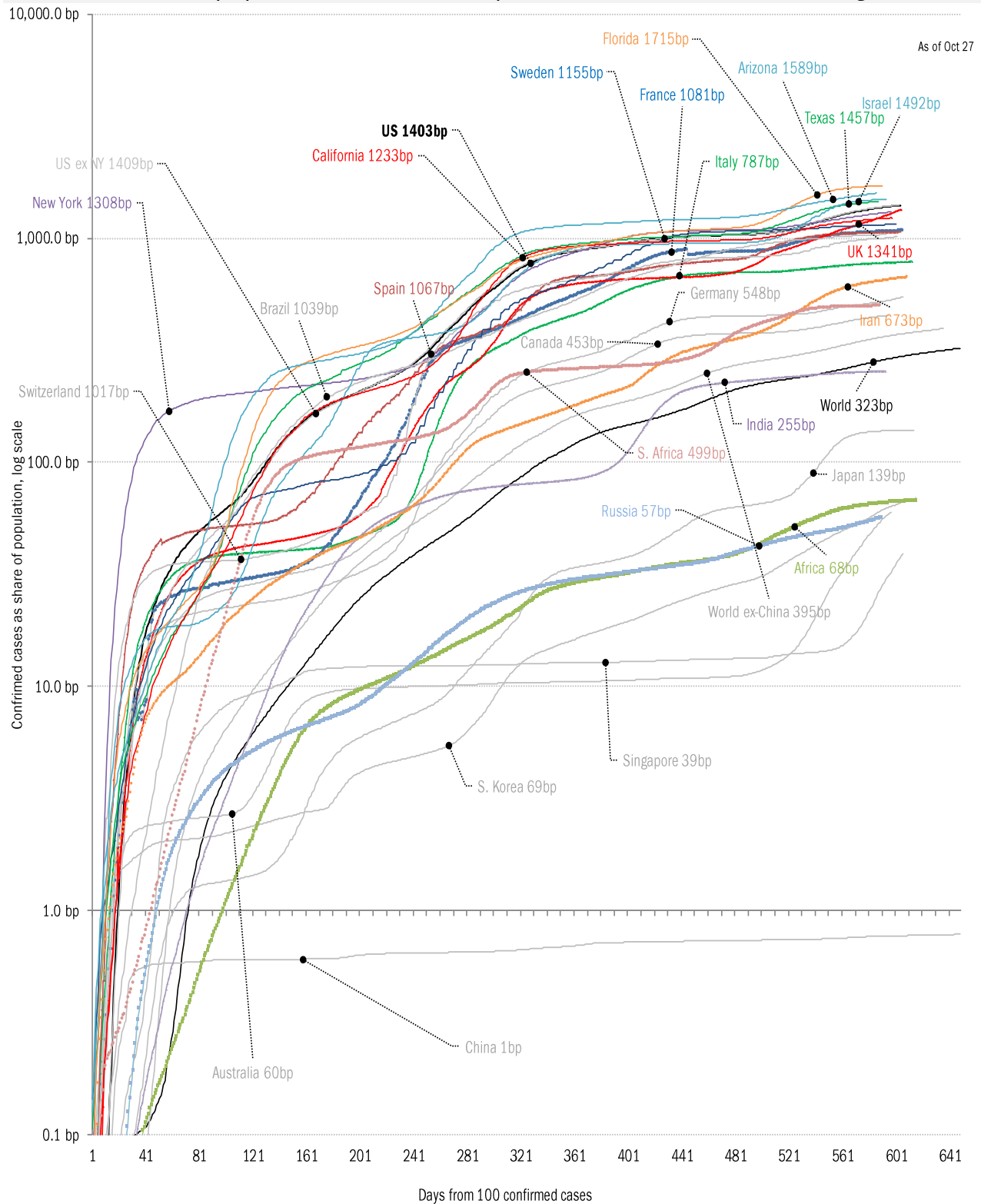
Meme of the day

And so it begins....



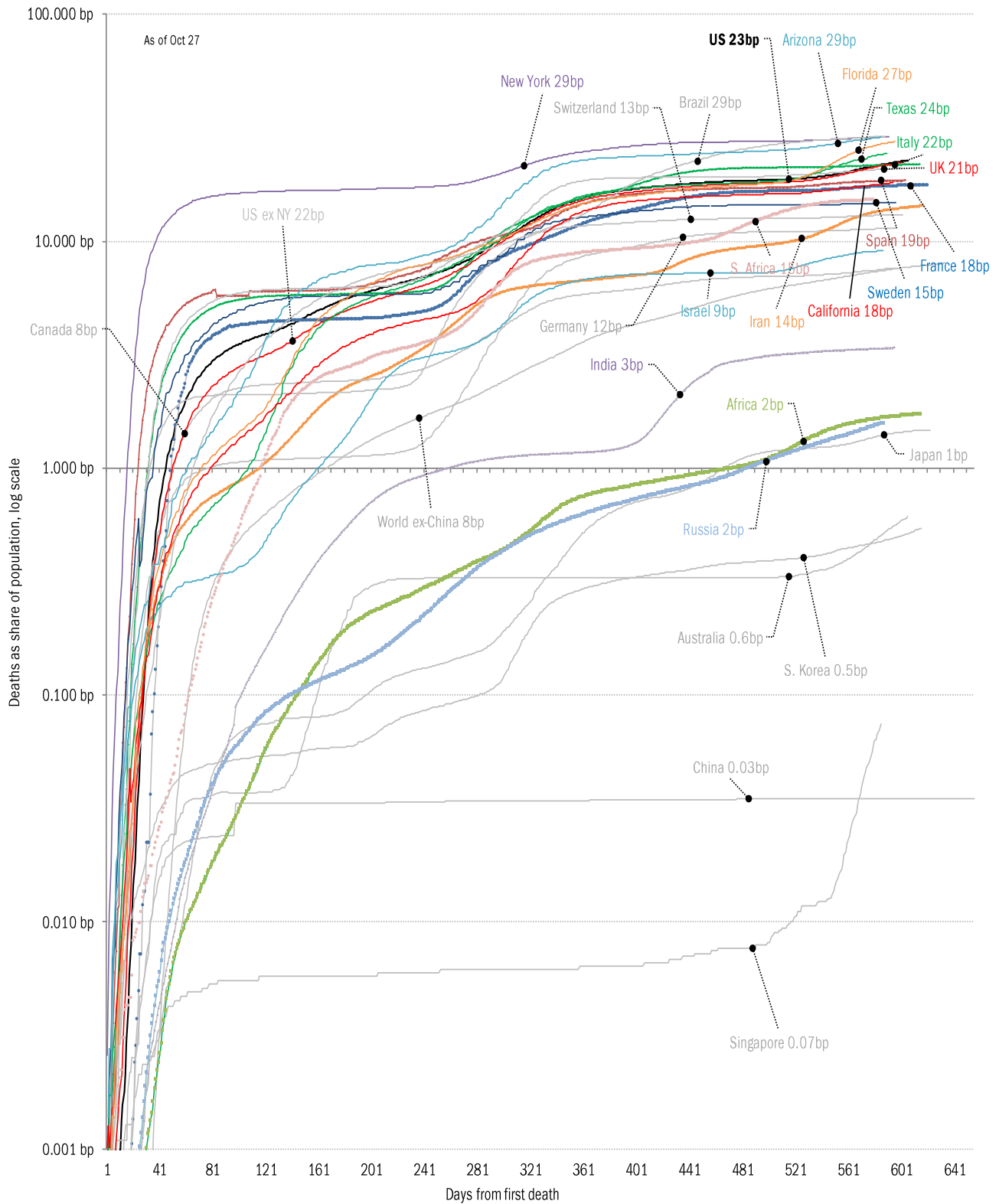
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

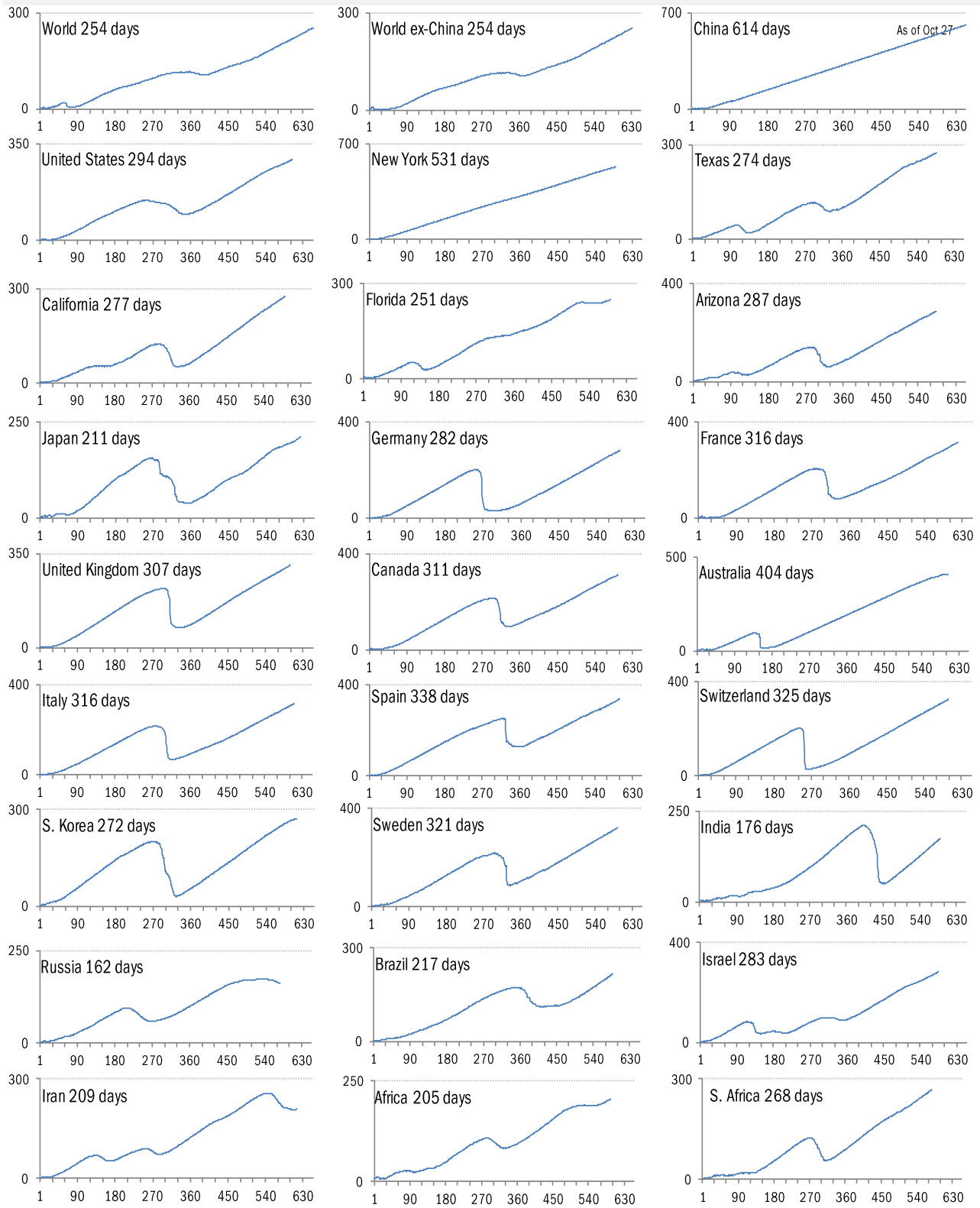


Source: [Johns Hopkins](#), TrendMacro calculations

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

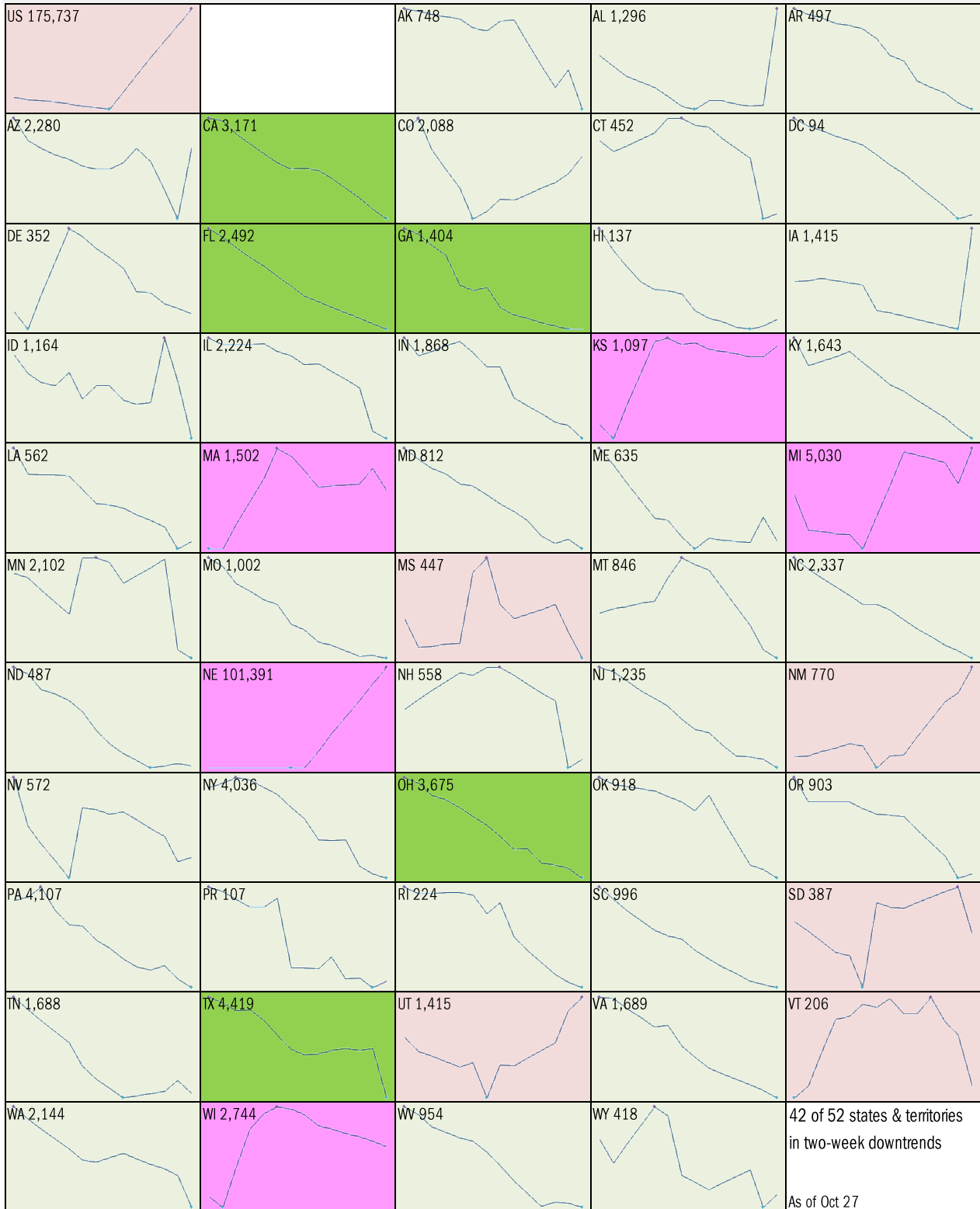
Vertical: days to double deaths Horizontal: days from first death

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

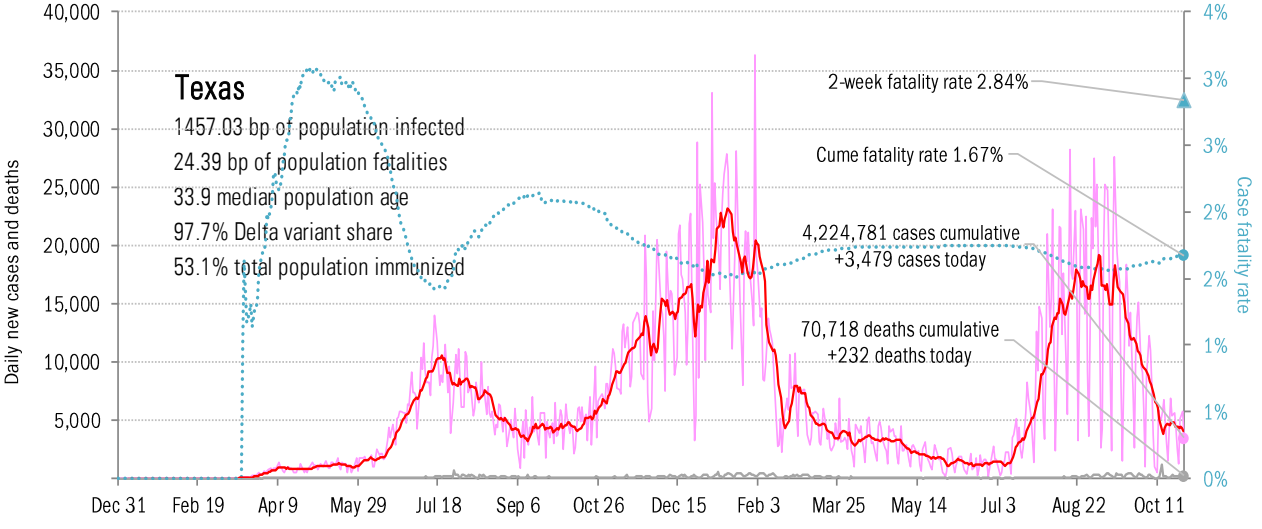
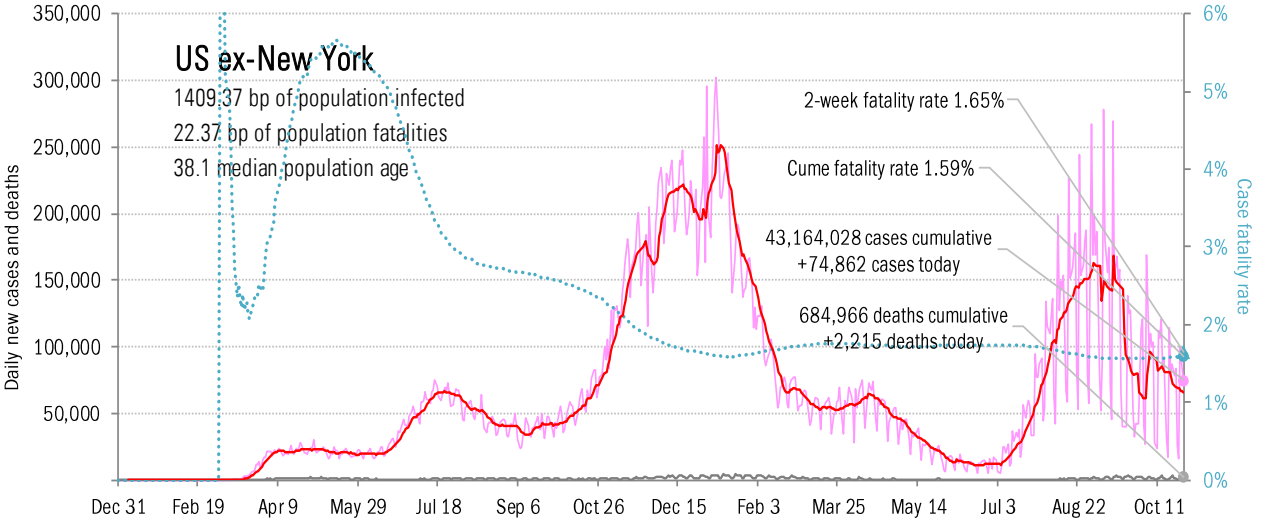
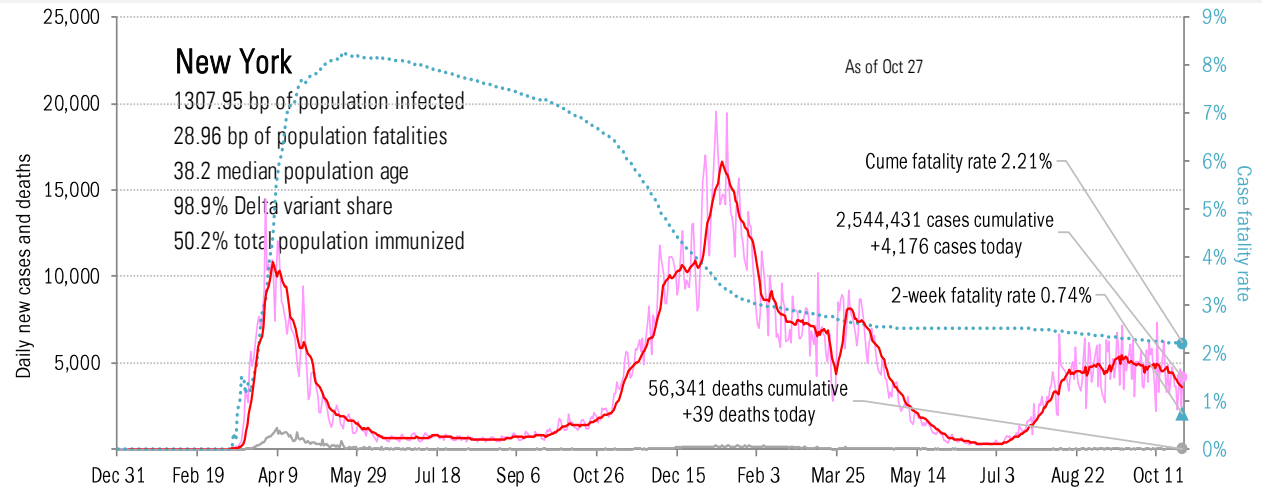
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

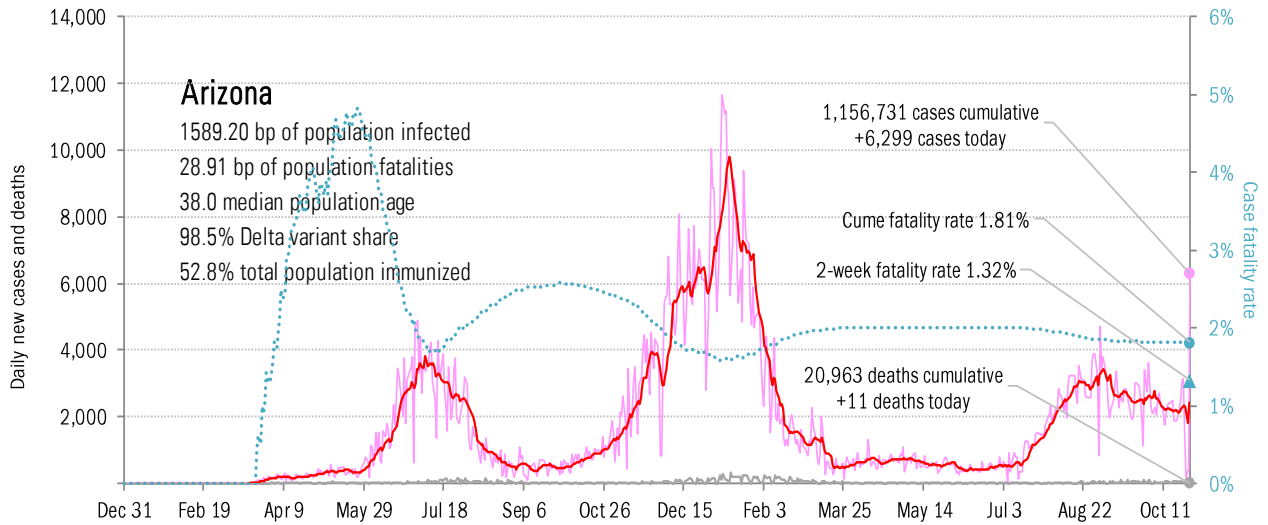
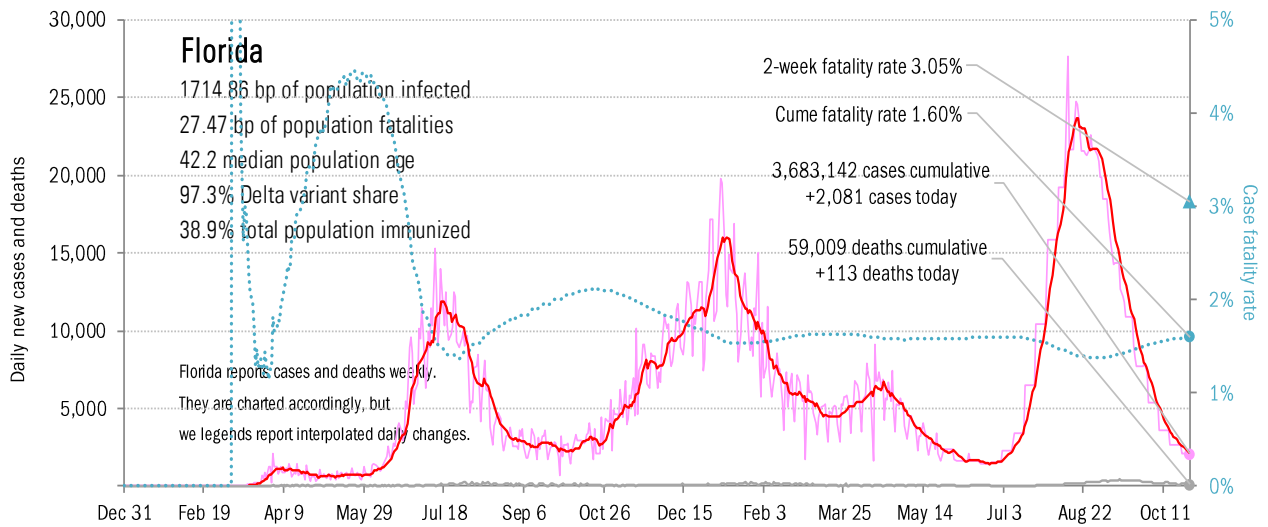
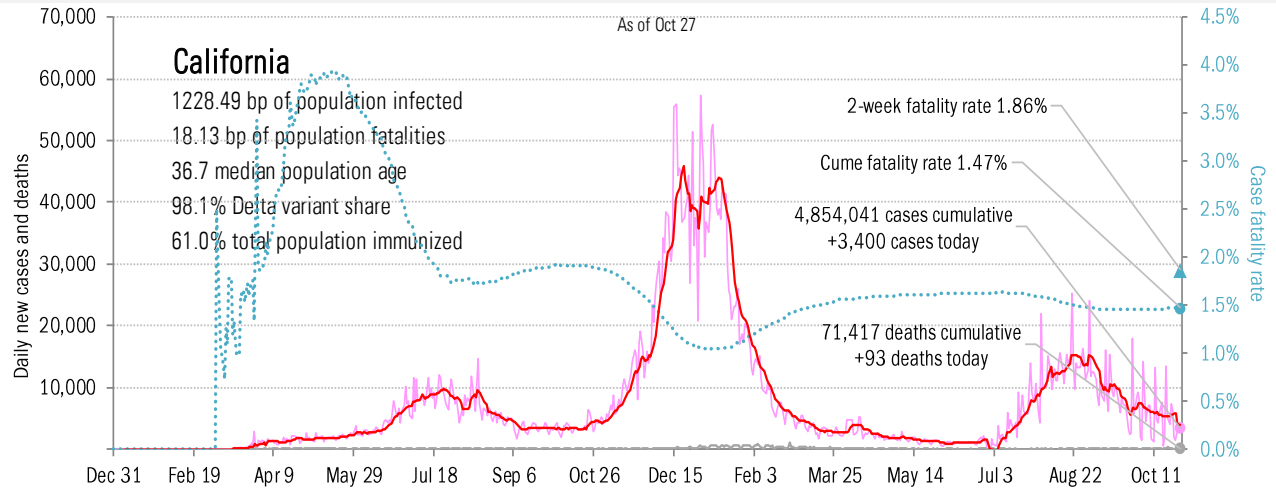
Cases: 7-day average and daily Deaths: Daily



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

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

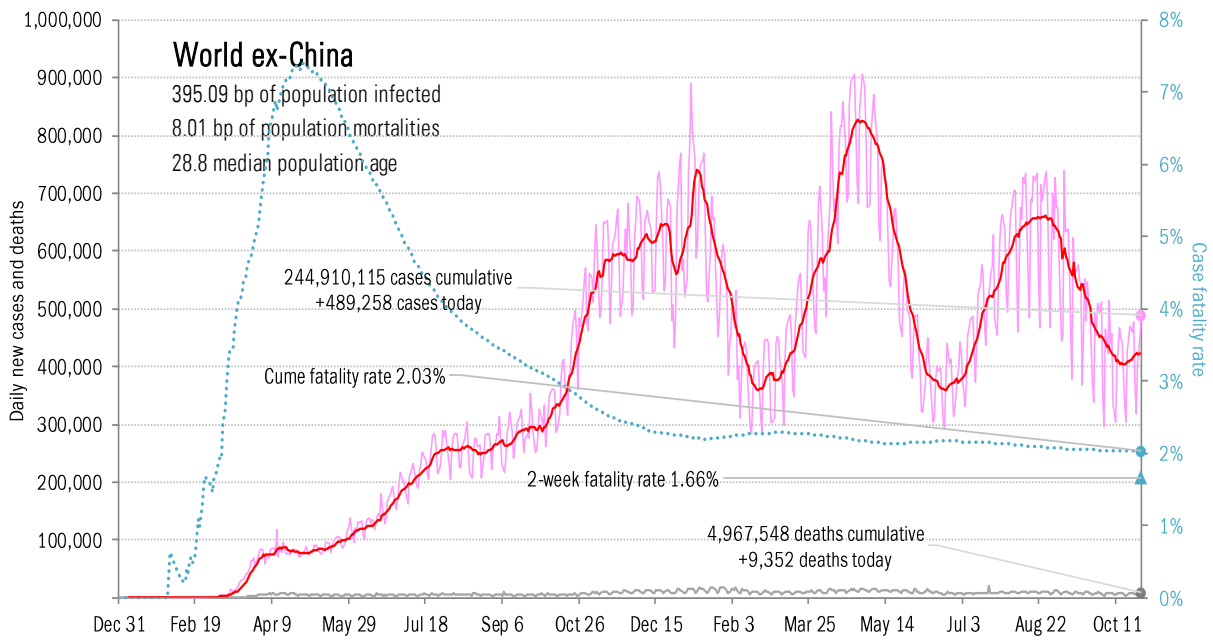
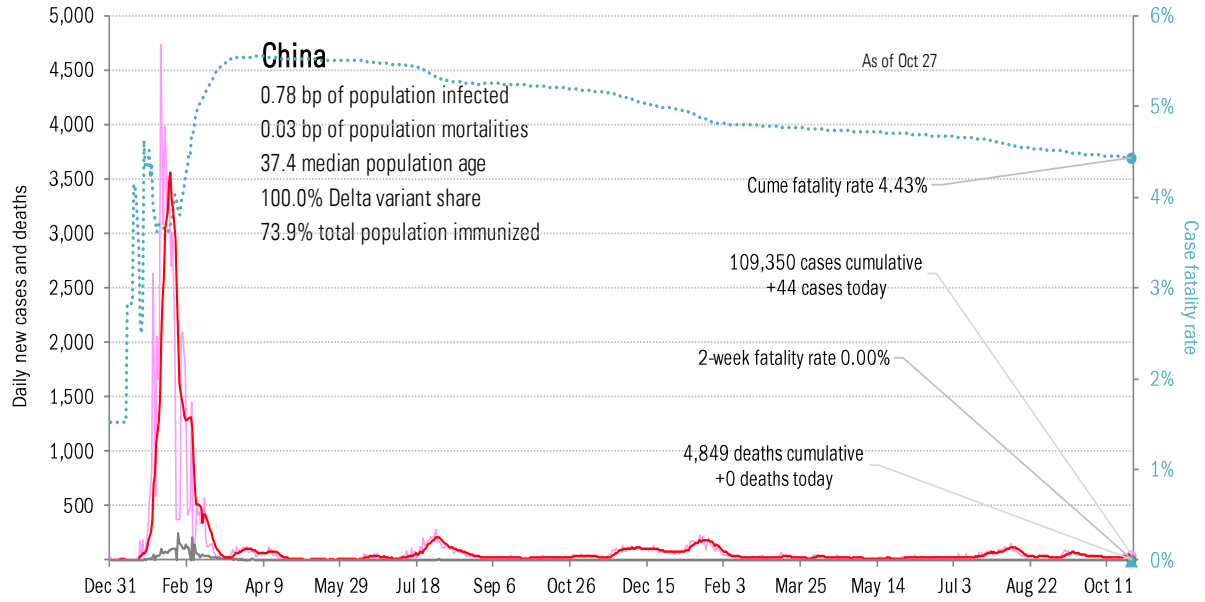
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

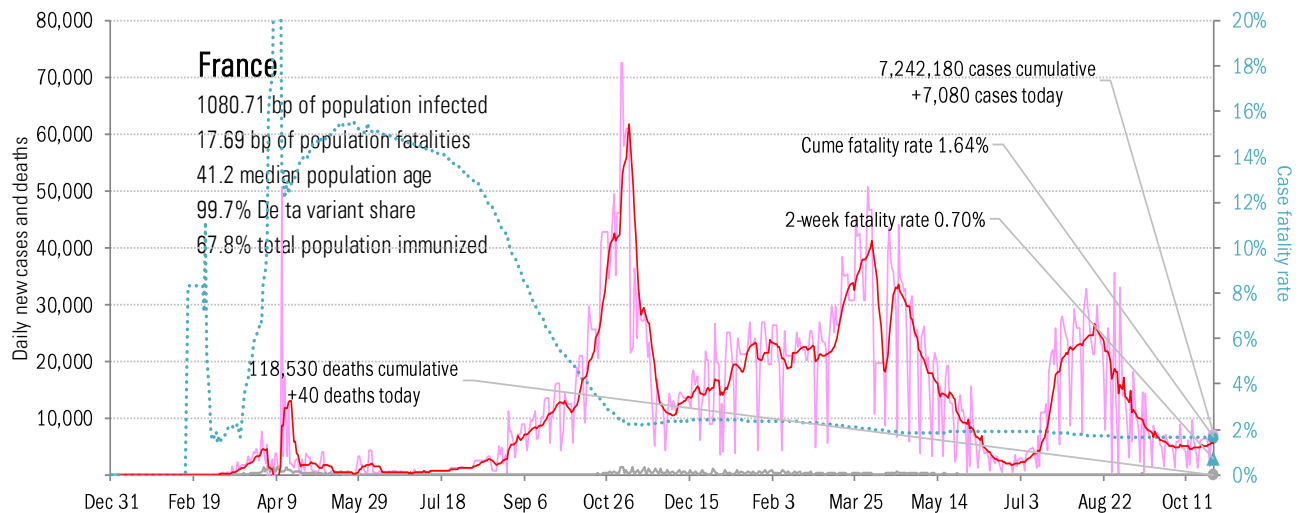
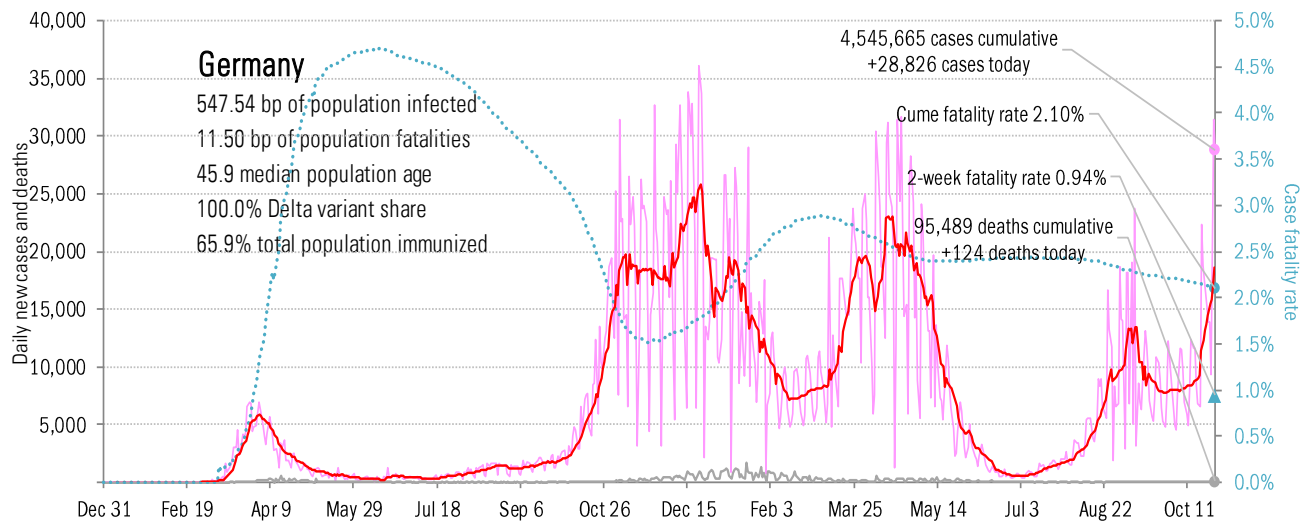
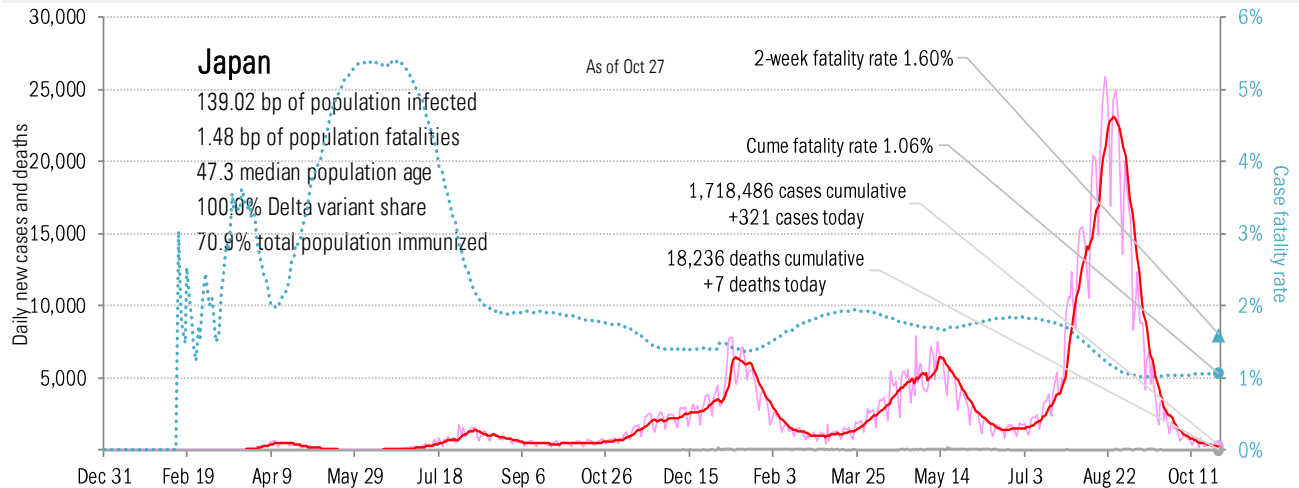
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

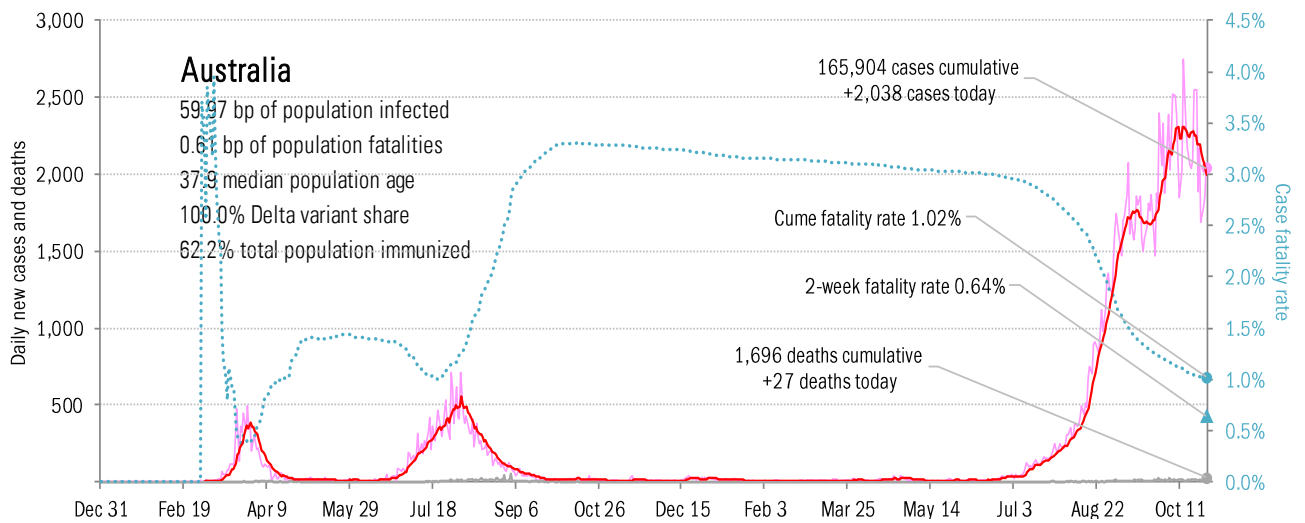
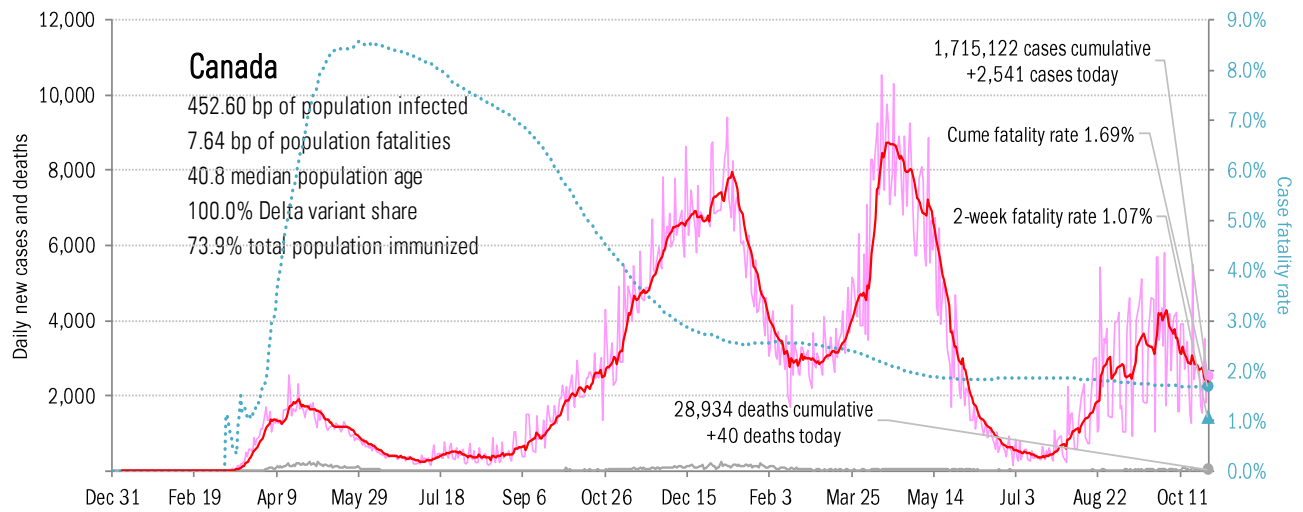
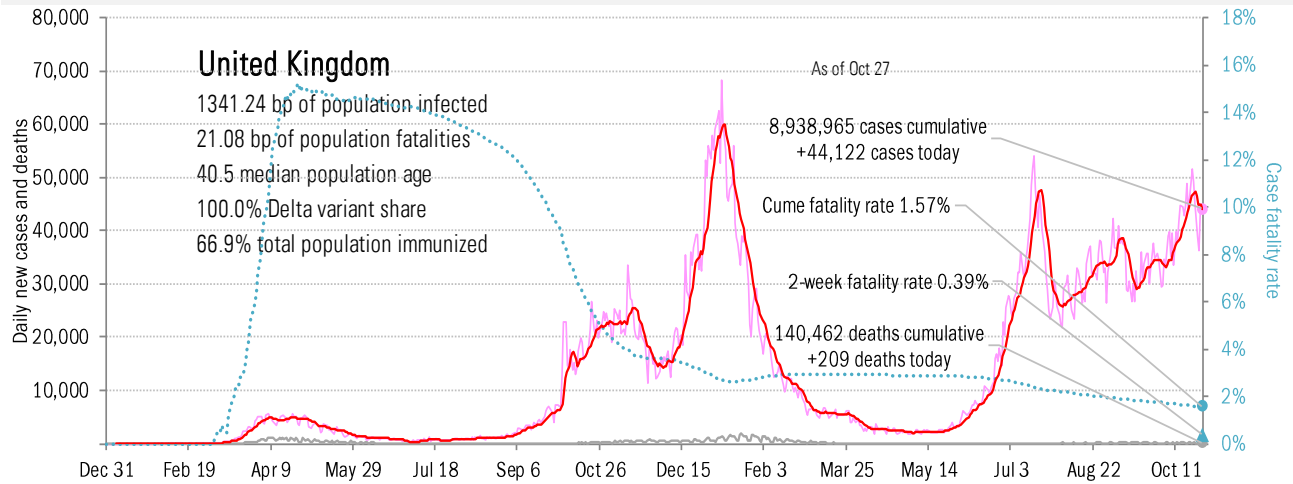
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

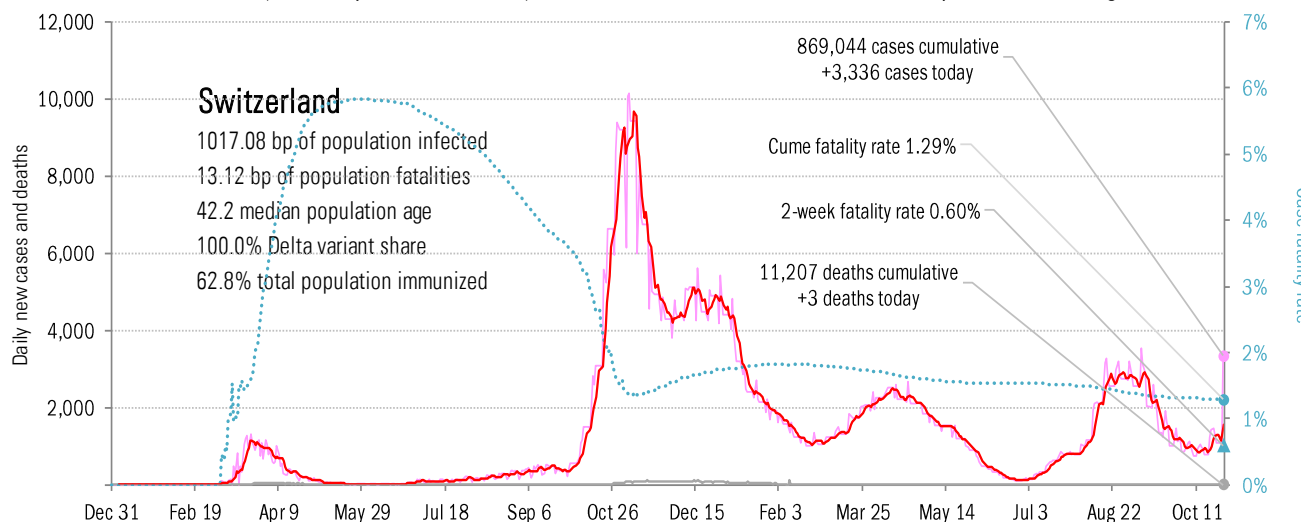
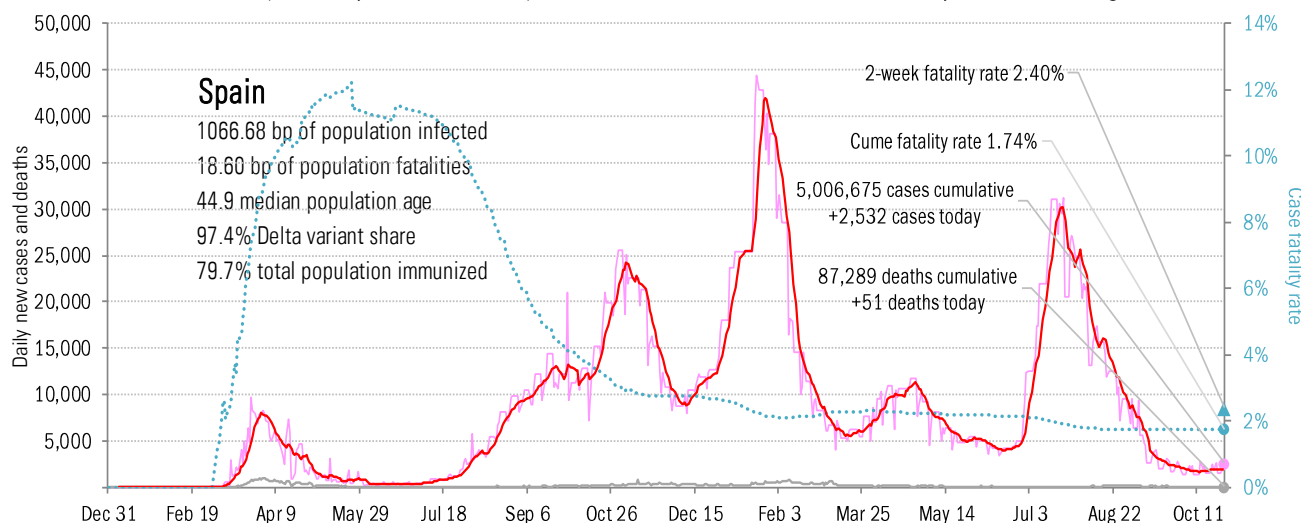
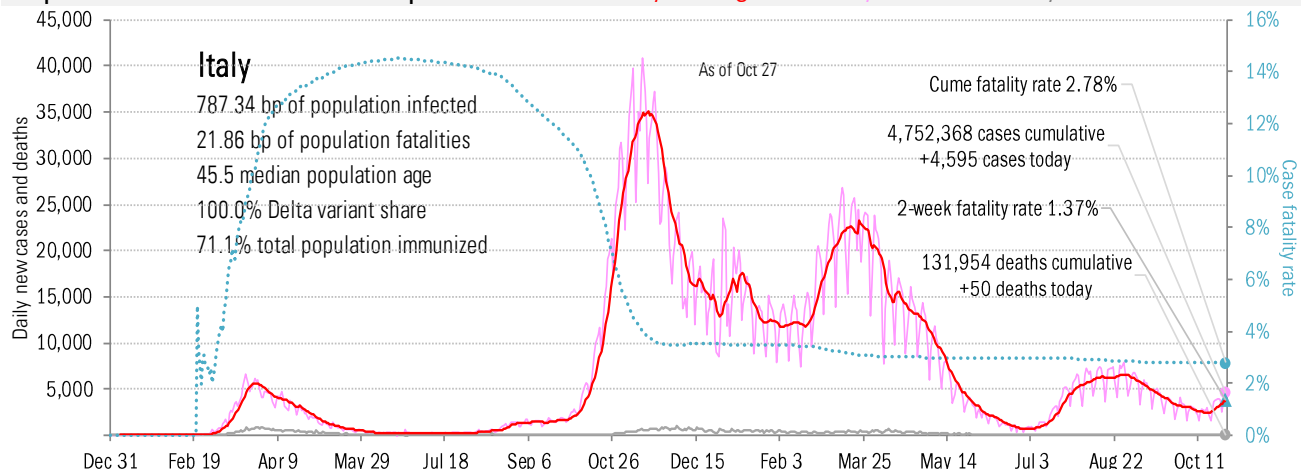
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

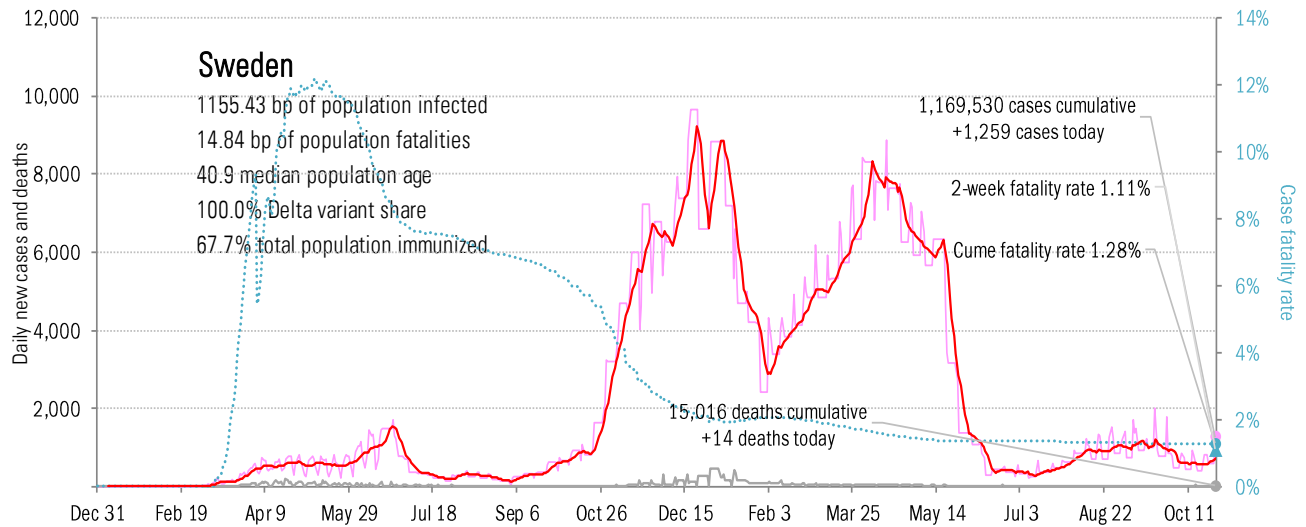
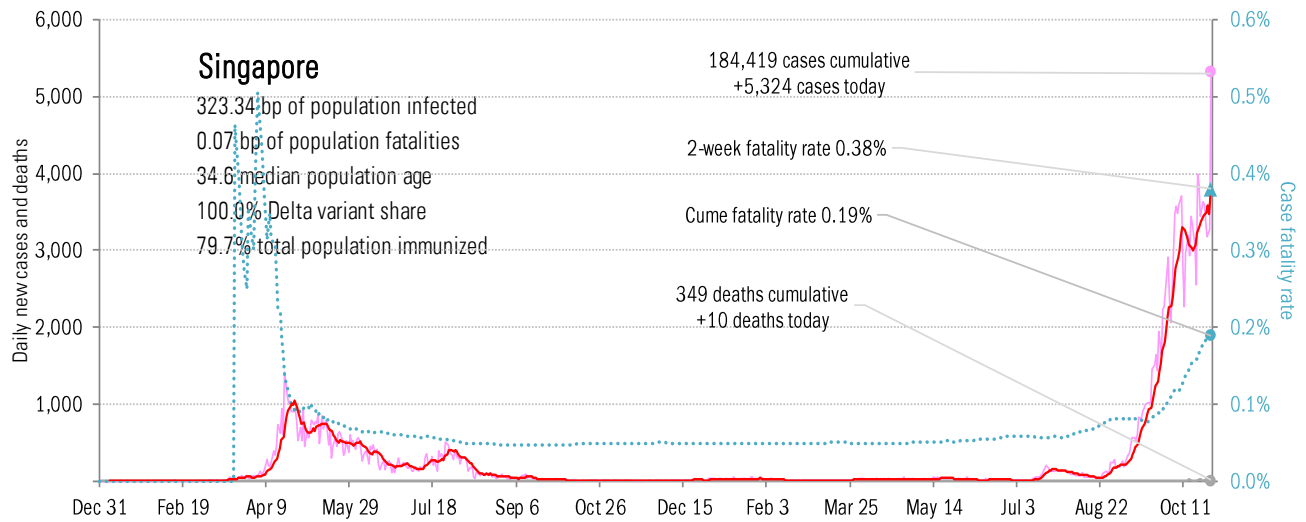
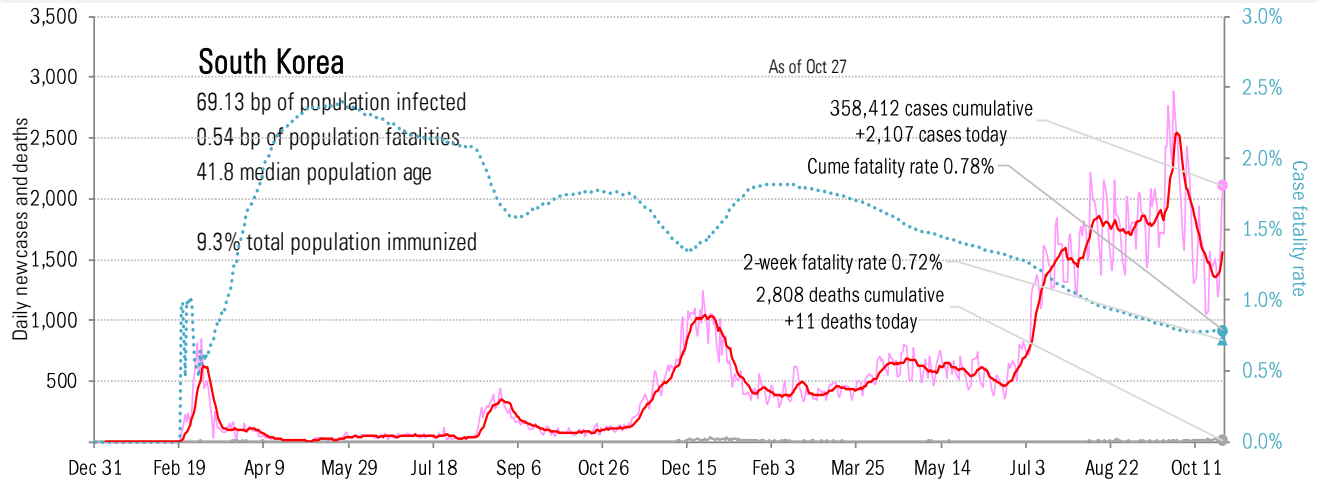
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

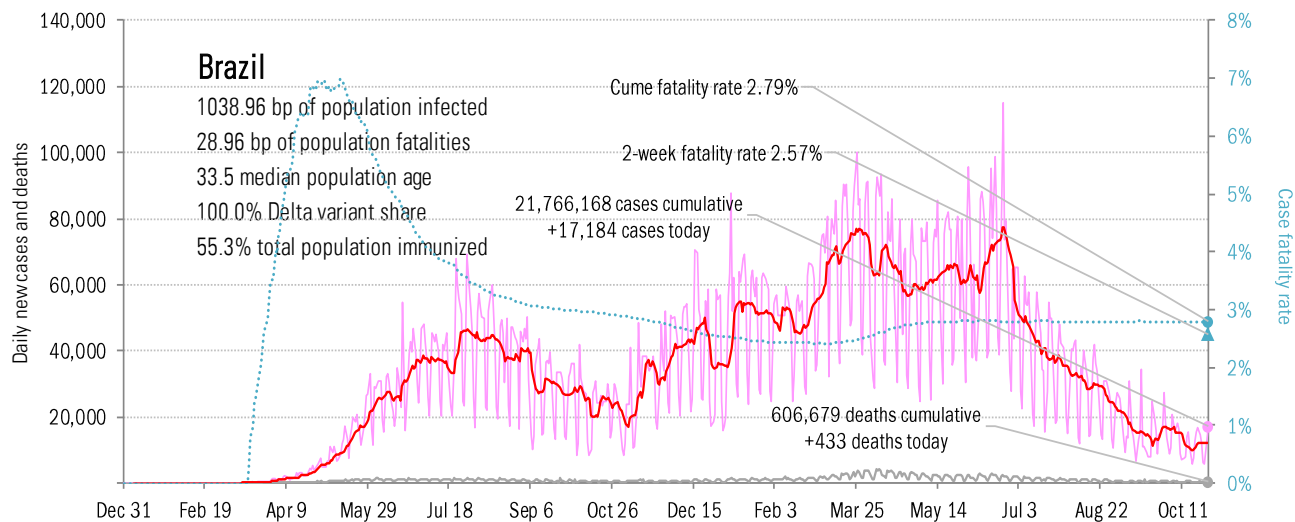
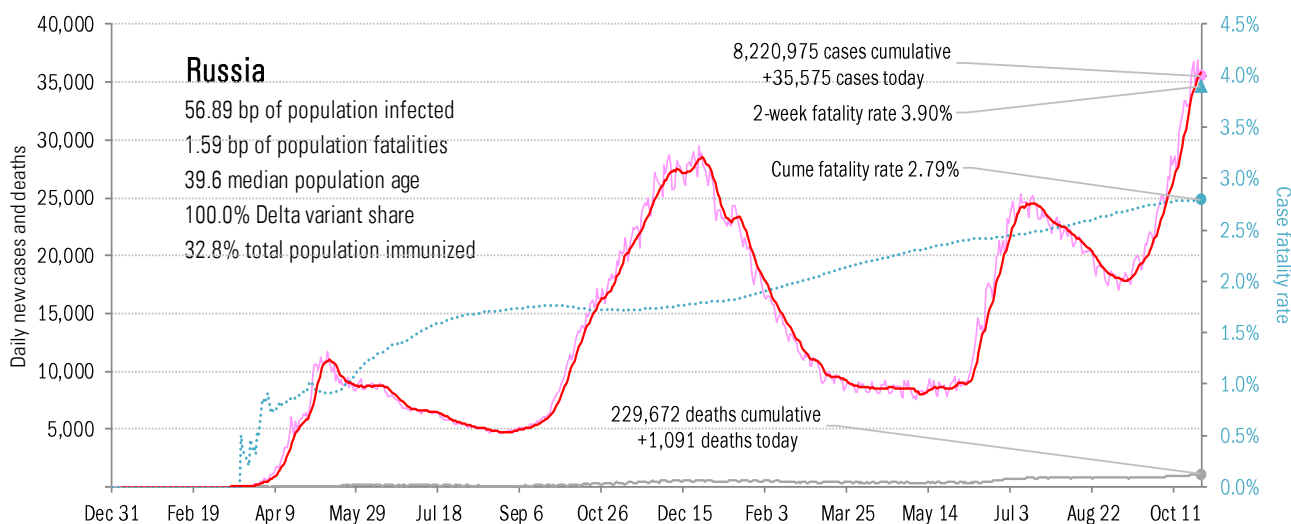
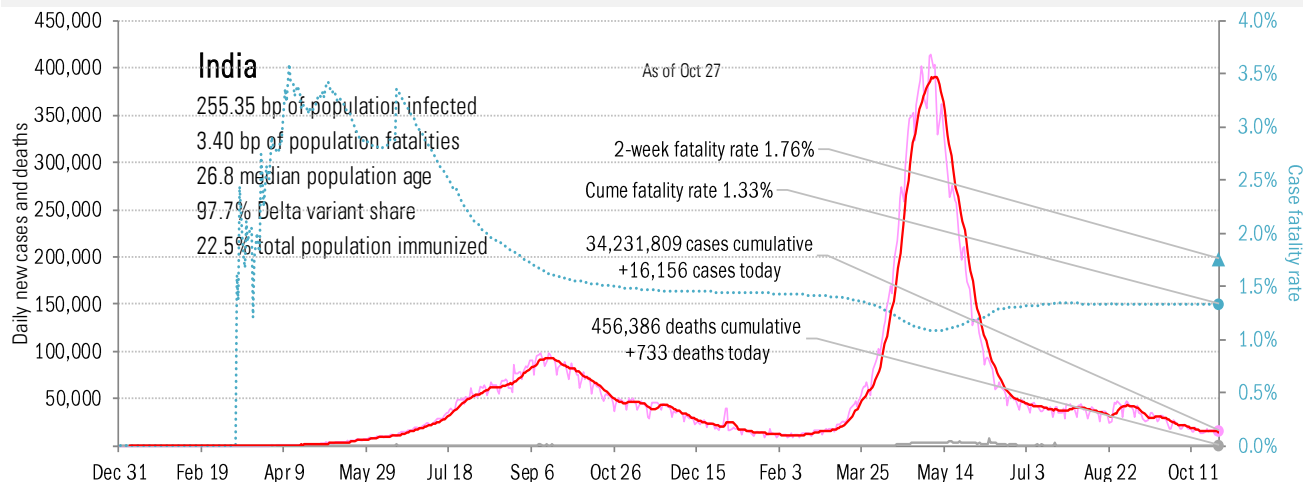
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

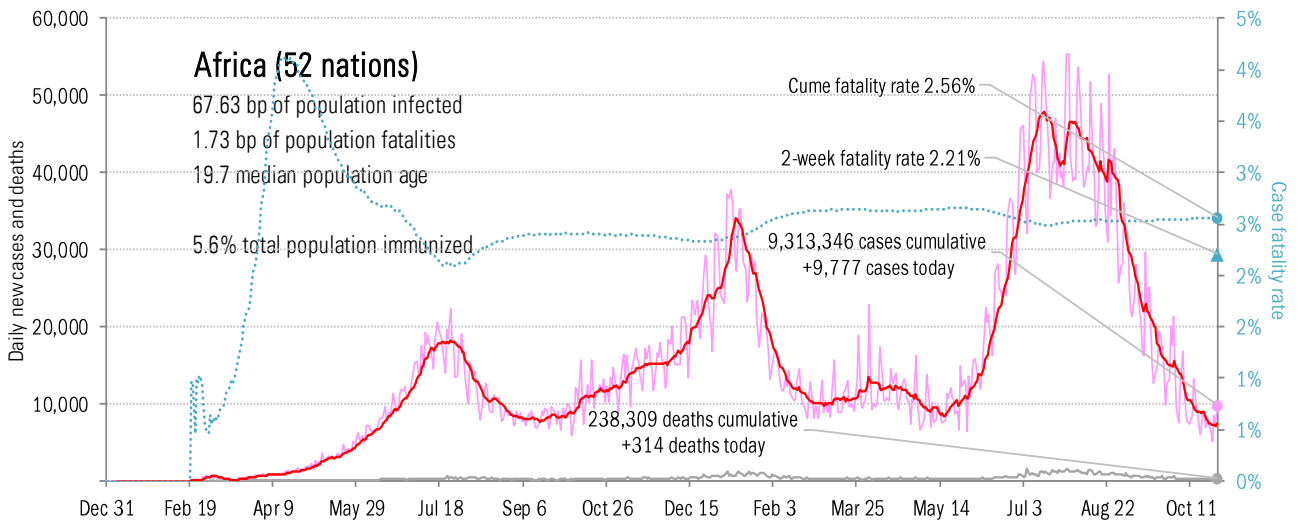
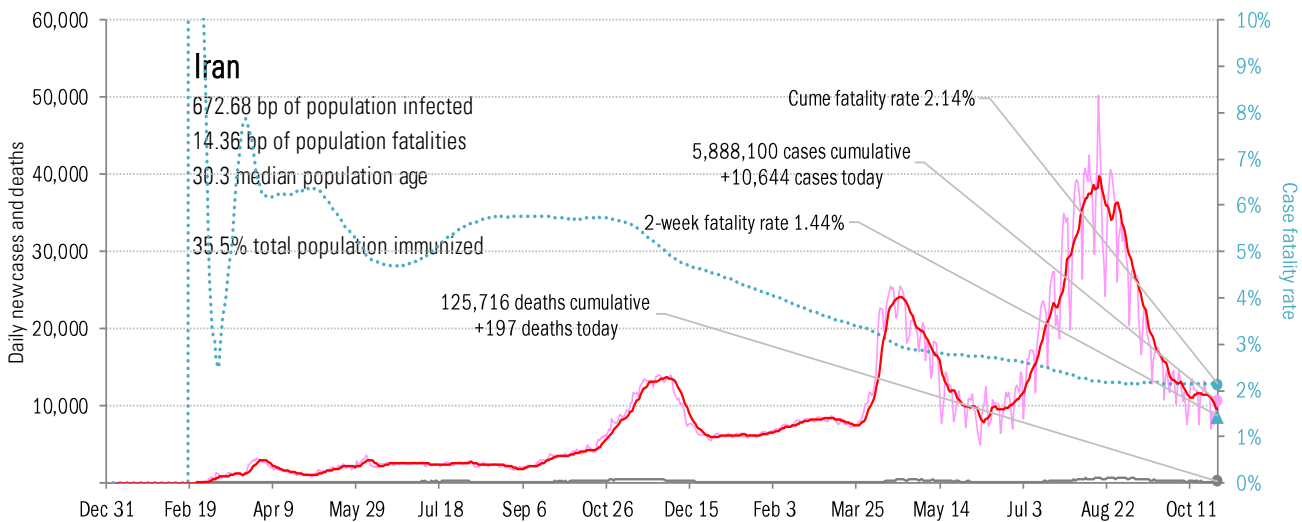
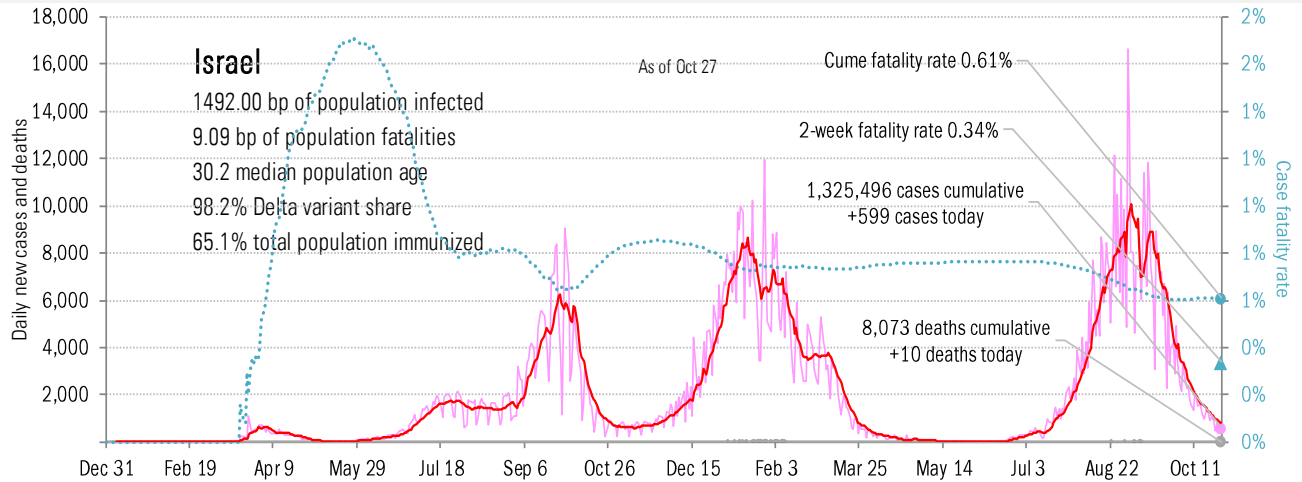
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

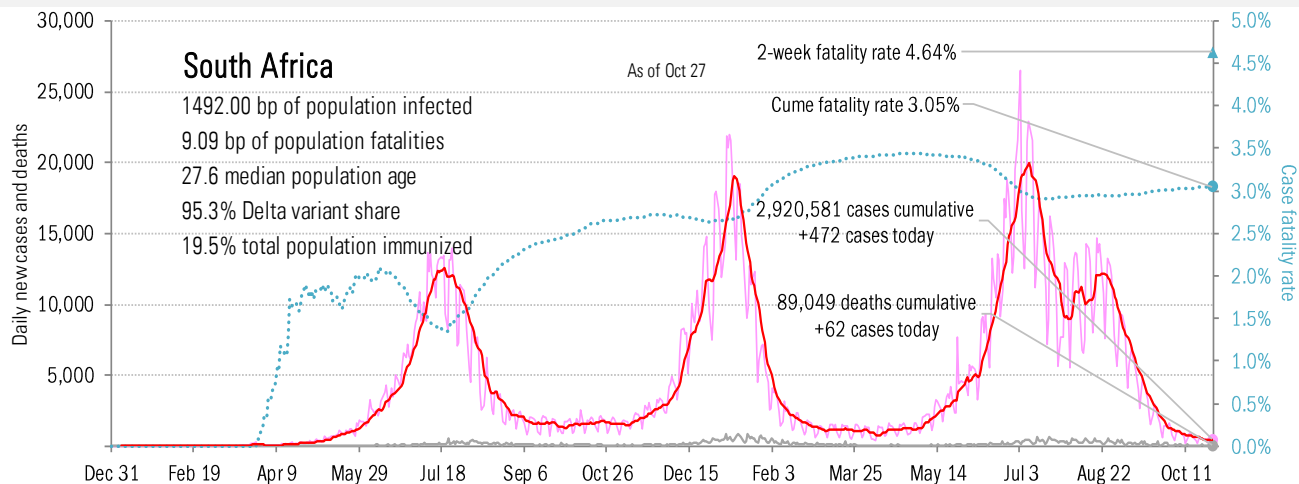
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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