

Data Insights: Covid-2019 Monitor

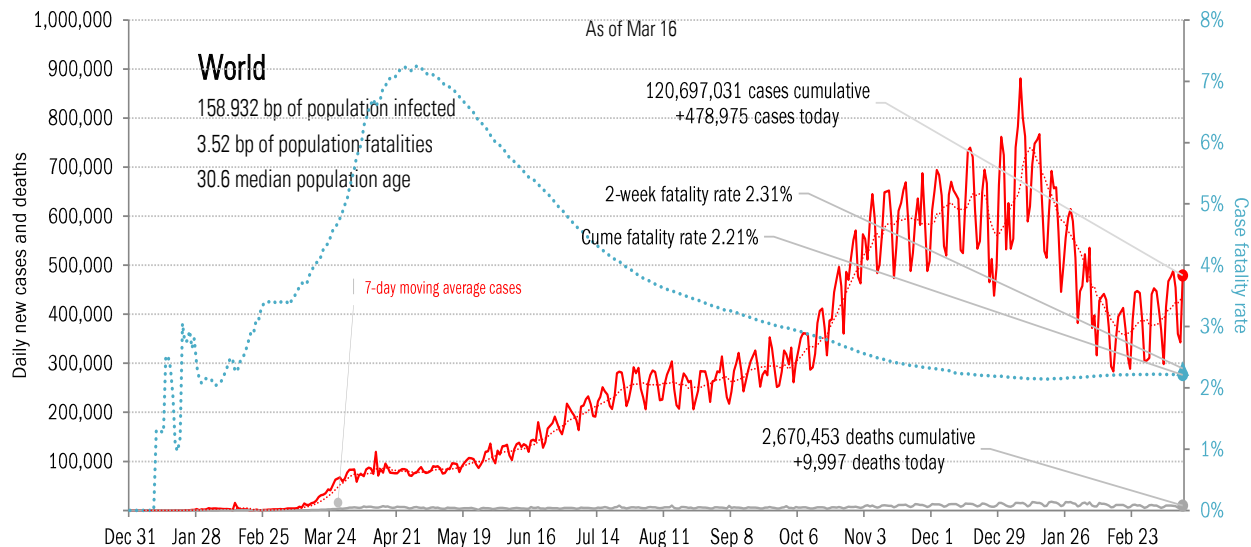
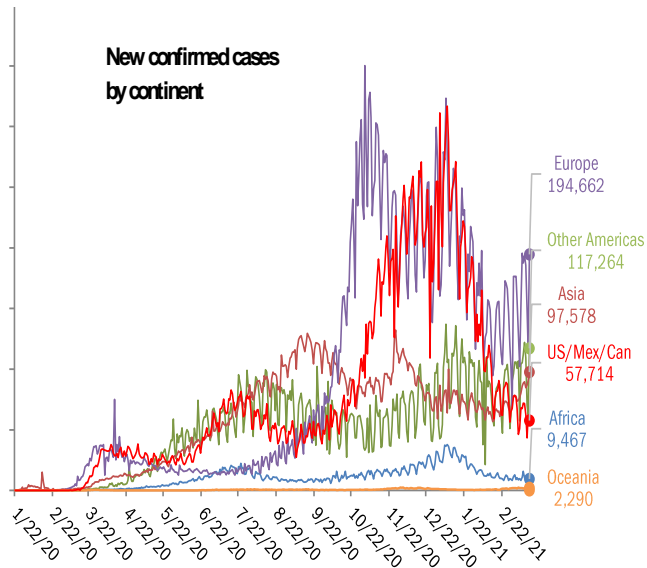
Wednesday, March 17, 2021

The global scorecard

The worst ten countries

| New cases | | New Deaths | |
|-----------------|----------|---------------|--------|
| Brazil | +83,926 | Brazil | +2,841 |
| United States | +53,579 | United States | +1,286 |
| France | +36,307 | Italy | +502 |
| India | +28,903 | Russia | +437 |
| Italy | +20,376 | France | +400 |
| Germany | +17,679 | Poland | +372 |
| Turkey | +16,749 | Czechia | +278 |
| Poland | +14,394 | Ukraine | +270 |
| Sweden | +12,762 | Germany | +251 |
| Czechia | +10,542 | Argentina | +200 |
| +295,217 | | +6,837 | |
| World | +478,975 | World | +9,997 |
| Top ten | 62% | Top ten | 68% |

New confirmed cases by continent



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

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

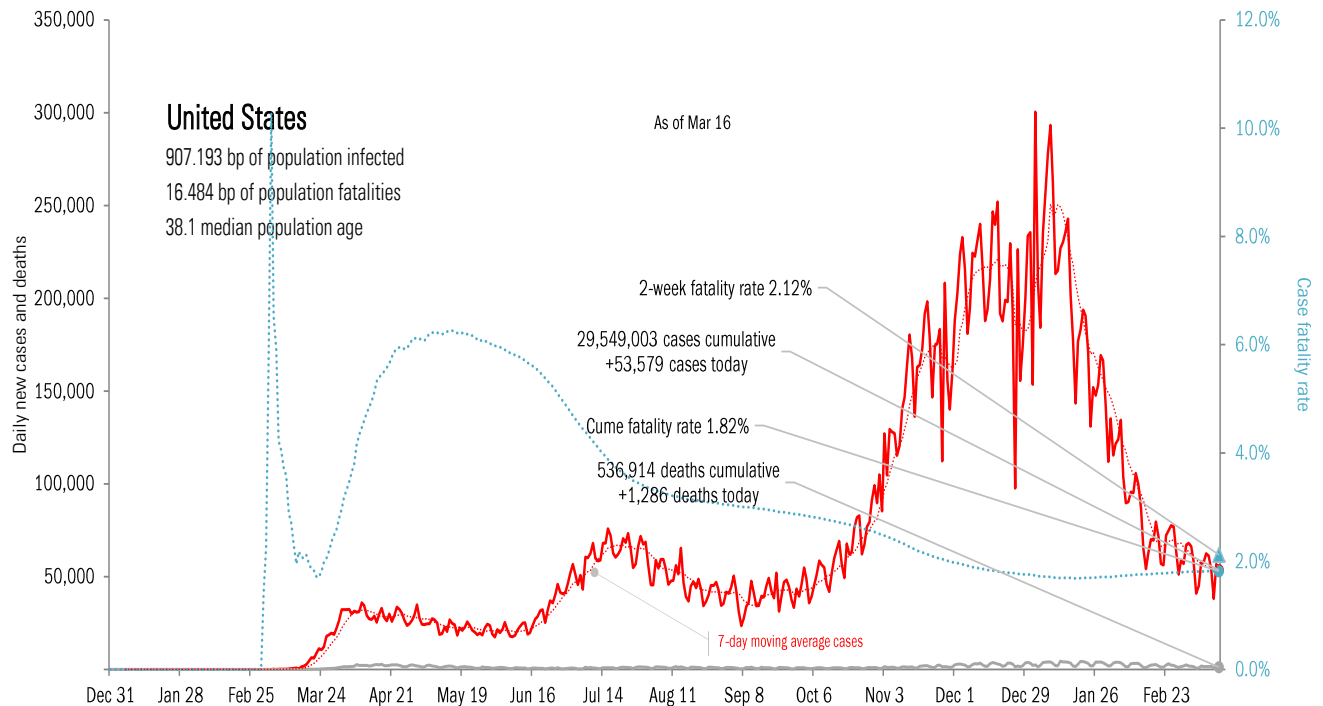
The ten worst US states

| New cases | | | New Deaths | | | New in hospital | | | Curre cases | | | Curre deaths | | | Curre in hospital | | | Hospital use | | ICU use | |
|------------|---------|--|------------|--------|--|-----------------|------|--|-------------|------------|--|--------------|---------|--|-------------------|-----------|--|--------------|-----|---------|-----|
| NY | +6,711 | | TX | +132 | | GA | +78 | | CA | 3,628,171 | | CA | 56,796 | | TX | 219,466 | | R | 94% | NY | 19% |
| TX | +5,949 | | CA | +122 | | NY | +61 | | TX | 2,737,763 | | NY | 49,110 | | CA | 217,410 | | MA | 81% | GA | 18% |
| FL | +4,791 | | CH | +121 | | CH | +49 | | FL | 1,984,425 | | TX | 46,651 | | FL | 144,600 | | MD | 80% | TX | 18% |
| NJ | +3,713 | | FL | +101 | | MD | +26 | | NY | 1,755,193 | | FL | 32,449 | | NY | 105,962 | | CT | 79% | MD | 18% |
| PA | +3,089 | | NY | +94 | | PA | +26 | | IL | 1,212,014 | | PA | 24,660 | | GA | 91,343 | | MO | 78% | MS | 14% |
| MI | +2,578 | | PA | +94 | | MN | +23 | | GA | 1,036,506 | | NJ | 23,966 | | CH | 72,996 | | SC | 78% | CA | 14% |
| CA | +2,144 | | OK | +87 | | NJ | +19 | | CH | 992,223 | | IL | 23,236 | | PA | 69,826 | | PA | 78% | DC | 13% |
| IL | +1,982 | | VA | +44 | | TN | +19 | | PA | 973,370 | | GA | 18,287 | | KY | 66,137 | | GA | 78% | FL | 13% |
| CH | +1,883 | | NJ | +41 | | MI | +18 | | NC | 887,311 | | CH | 17,991 | | IL | 65,862 | | FL | 78% | RI | 13% |
| GA | +1,743 | | MO | +33 | | WI | +11 | | NJ | 844,398 | | MI | 16,805 | | AZ | 57,125 | | DC | 78% | MA | 13% |
| +34,583 | | | +869 | | | +330 | | | 16,051,374 | | | 309,951 | | | 1,110,727 | | | | | | |
| All states | +53,579 | | | +1,286 | | | +101 | | All states | 29,549,003 | | | 536,914 | | | 1,975,822 | | All states | 70% | | 67% |
| Top ten | 65% | | | 68% | | | 327% | | Top ten | 54% | | | 58% | | | 56% | | Median | 71% | | 9% |

Some states not reporting

Five most improved US states

| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | | Most pop immunity growth | |
|-------------------|--------|------------------|-----|----------------------------|-----|--------------------------|--------|
| AL | -4,068 | GA | -22 | TX | -63 | NM | +48 bp |
| NC | -2,410 | KS | -13 | IN | -30 | CA | +38 bp |
| TN | -1,801 | MA | -13 | NM | -27 | NE | +37 bp |
| CT | -1,672 | CT | -12 | KY | -21 | AZ | +36 bp |
| MI | -1,250 | NC | -5 | FL | -20 | NC | +35 bp |



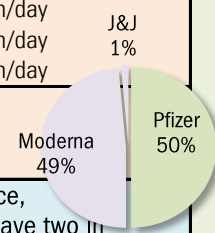
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

| US overall | Over last day | Share pop full immunization |
|---|-------------------|-----------------------------|
| 149.90 million doses distributed | +7.27 million/day | United States 11.7% |
| 115.77 million doses administered | +1.69 million/day | United Kingdom 2.5% |
| 75.01 million persons partially immunized | +1.09 million/day | France 3.3% |
| 40.83 million persons fully immunized | +0.72 million/day | Spain 3.7% |
| 7.57 million shots long-term care residents/staff | +0.01 million/day | Germany 3.6% |

77.2% of distributed doses administered
 28.4% of US pop partial
 100% of LTC partial

15.5% full immunity
 61.2% full immunity



| Country | Share pop full immunization |
|----------------|-----------------------------|
| United States | 11.7% |
| United Kingdom | 2.5% |
| France | 3.3% |
| Spain | 3.7% |
| Germany | 3.6% |
| Italy | 3.6% |
| Australia | 0.4% |
| Israel | 50.4% |
| Canada | 1.6% |
| Japan | 0.0% |
| Africa | 0.2% |
| India | 0.5% |
| Brazil | 1.4% |

At today's dosing pace, every American will have two in

321 days
by Jan 30, 2022

US will achieve herd immunity in

130 days
by Jul 23, 2021

| State | Rank |
|-----------------------------------|--------|
| Doses distributed as % population | Best |
| Partial immunity as % population | Middle |
| Full immunity as % population | Worst |

| AK |
|-------|
| 66.3% |
| 28.2% |
| 18.3% |

| ME |
|-------|
| 46.5% |
| 26.4% |
| 14.3% |

| WI |
|-------|
| 43.4% |
| 23.3% |
| 13.2% |

| VT |
|-------|
| 49.7% |
| 25.1% |
| 13.2% |

| NH |
|-------|
| 42.8% |
| 25.0% |
| 11.8% |

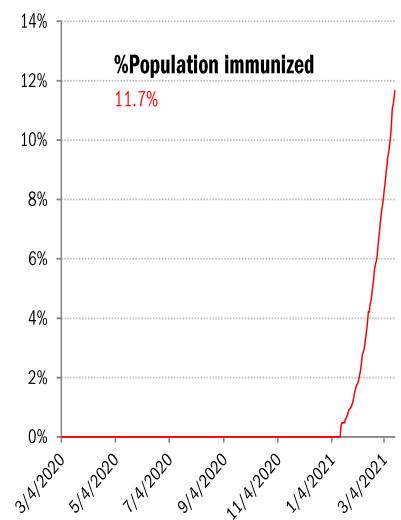
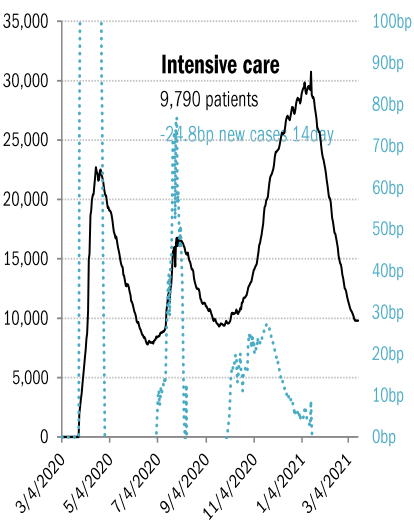
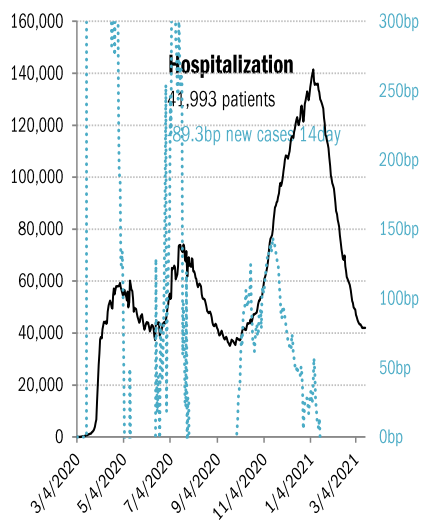
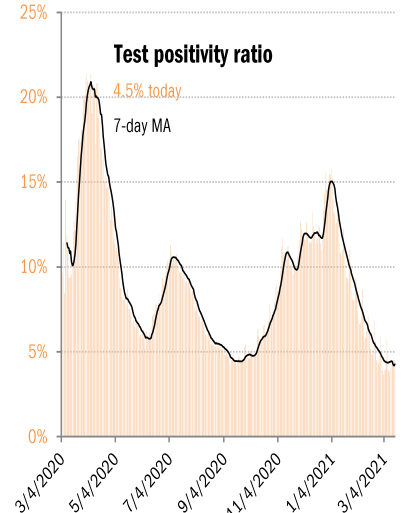
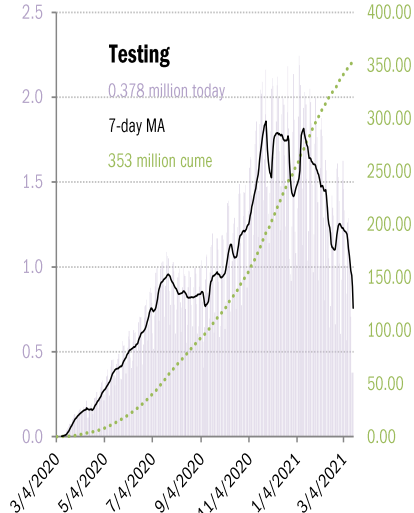
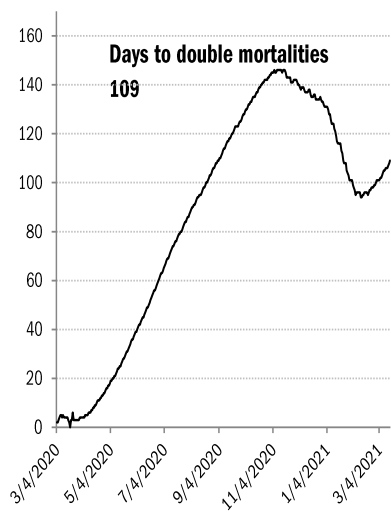
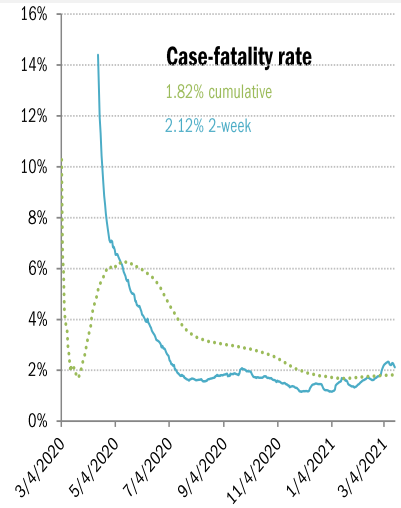
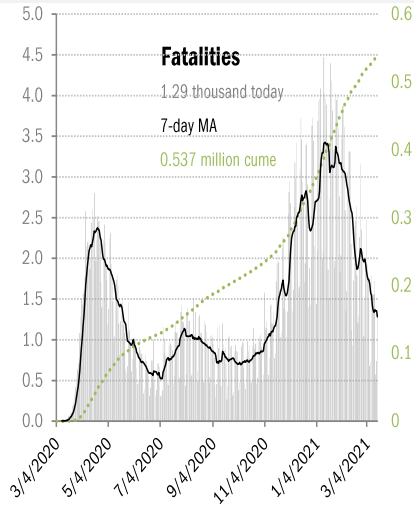
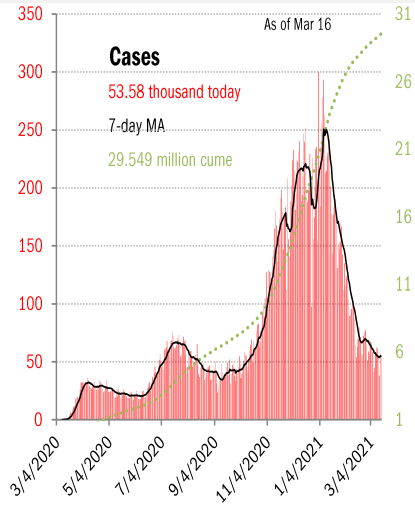
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|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| WA 44.6% 22.5% 12.8% | ID 40.2% 19.5% 12.0% | MT 45.2% 23.8% 14.3% | ND 47.6% 26.1% 14.9% | MN 41.7% 24.1% 13.1% | IL 43.7% 22.5% 12.2% | MI 42.7% 21.1% 11.9% | NY 44.3% 22.6% 11.1% | MA 44.5% 25.5% 13.2% | | |
| OR 42.7% 21.5% 12.3% | NV 38.6% 20.9% 11.8% | WY 46.7% 22.5% 14.1% | SD 51.9% 27.7% 15.7% | IA 42.6% 24.0% 13.6% | IN 41.4% 19.7% 12.8% | OH 43.0% 21.1% 12.4% | PA 43.2% 22.7% 11.3% | NJ 41.2% 24.8% 12.7% | CT 49.1% 27.1% 14.5% | RI 46.4% 26.8% 11.3% |
| CA 44.0% 21.6% 10.5% | UT 37.8% 19.5% 8.6% | CO 40.7% 21.5% 12.7% | NE 45.0% 23.3% 13.4% | MO 39.6% 19.8% 10.6% | KY 43.5% 23.5% 12.2% | WV 48.9% 23.5% 14.6% | VA 42.2% 22.7% 12.9% | MD 42.7% 22.6% 12.7% | DE 44.9% 21.7% 12.6% | |
| AZ 43.1% 22.7% 12.9% | NM 52.8% 29.6% 17.3% | KS 43.4% 21.6% 11.5% | AR 44.2% 19.5% 10.4% | TN 40.2% 18.5% 9.9% | NC 41.4% 21.9% 12.3% | SC 39.7% 20.4% 11.4% | DC 56.5% 18.3% 9.5% | | | |
| OK 52.0% 24.3% 13.1% | LA 44.1% 20.3% 11.9% | MS 42.0% 20.0% 11.1% | AL 40.9% 17.8% 10.4% | GA 39.4% 16.1% 9.9% | | | | | | |
| HI 50.7% 24.0% 14.9% | TX 39.2% 19.3% 10.0% | FL 45.7% 20.7% 11.6% | PR 45.5% 15.2% 8.9% | | | | | | | |

As of Mar 16

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

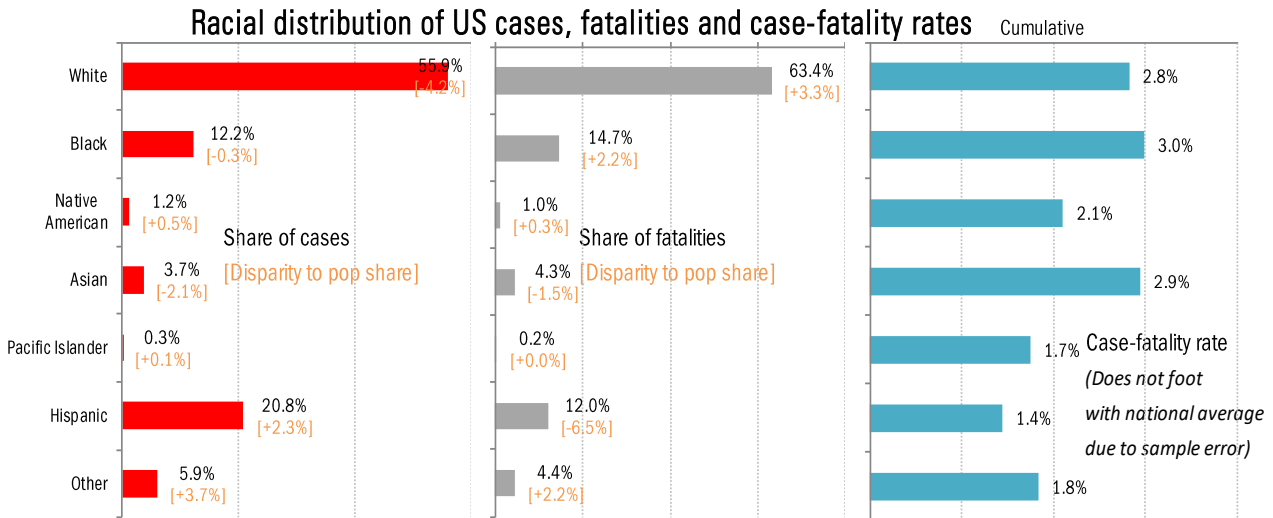
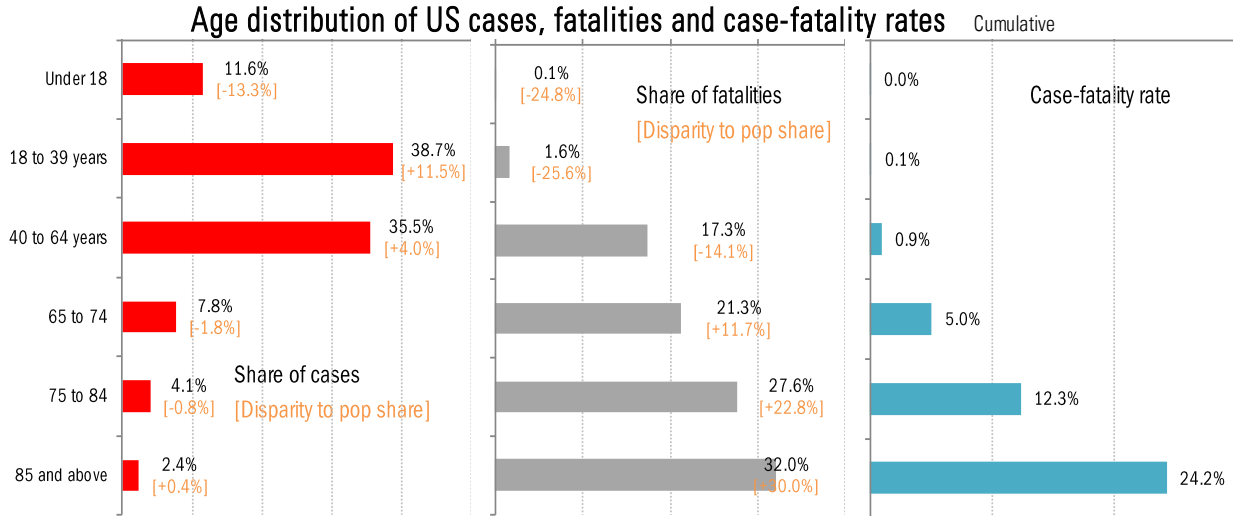
US deep-dive

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

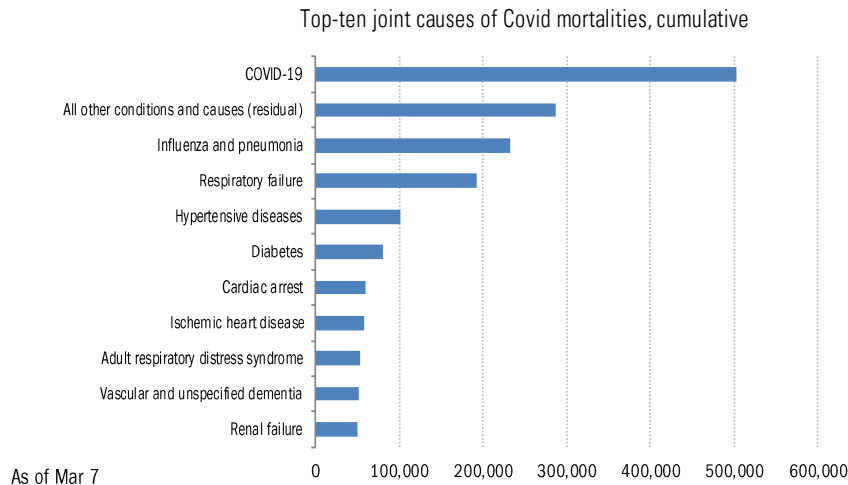


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

US deep-dive on the demographics of age, race and health



Comorbidities



For 6% of the deaths, COVID-19 was the only cause mentioned. For deaths with conditions or causes in addition to COVID-19, on average, there were 3.8 additional conditions or causes per death.

Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

Recommended reading

[Woman gives birth to baby with antibodies after receiving COVID-19 vaccine while pregnant](#)

Joseph Guzman
Changing America
March 16, 2021

[Italy opens manslaughter case after teacher dies hours after getting AstraZeneca vaccine](#)

Lee Brown
New York Post
March 16, 2021

[Brussels to propose Covid certificate to allow EU-wide travel](#)

Mehreen Khan and Philip Georgiadis
Financial Times
March 16, 2021

[How the West Lost COVID](#)

David Wallace-Wells
New York Magazine
March 15, 2021

[Peter McCullough, MD testifies to Texas Senate HHS Committee](#)

Association of American Physicians and Surgeons
March 11, 2021

[For Murphy and Cuomo, questions persist over decision to readmit nursing home residents. Here's what happened.](#)

Susan K. Livio and Ted Sherman
NJ.com
March 14, 2021

[Moderna begins testing COVID-19 vaccine in kids under 12](#)

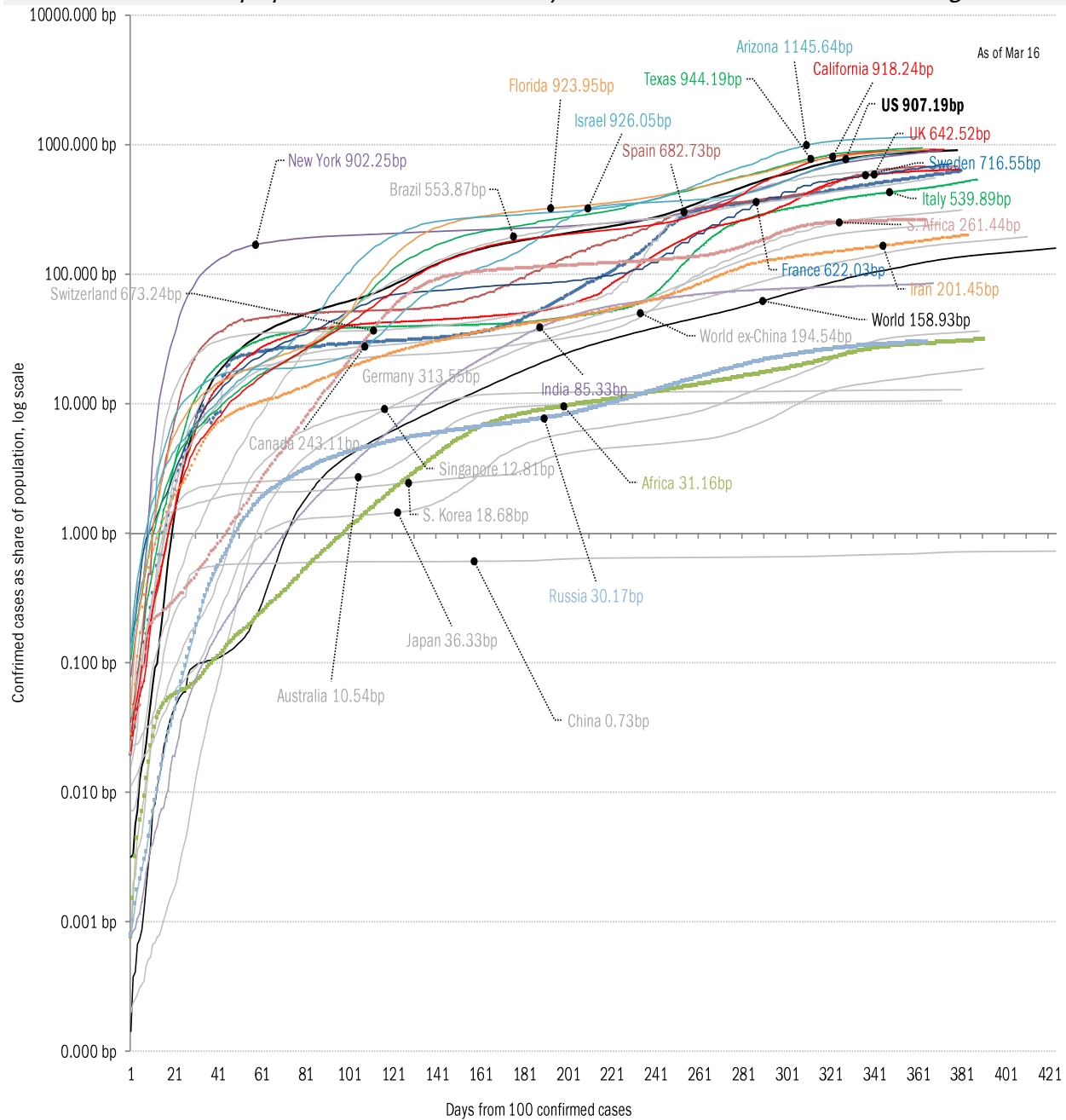
Alexandria Hein
Fox News
March 16, 2021

Meme of day



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

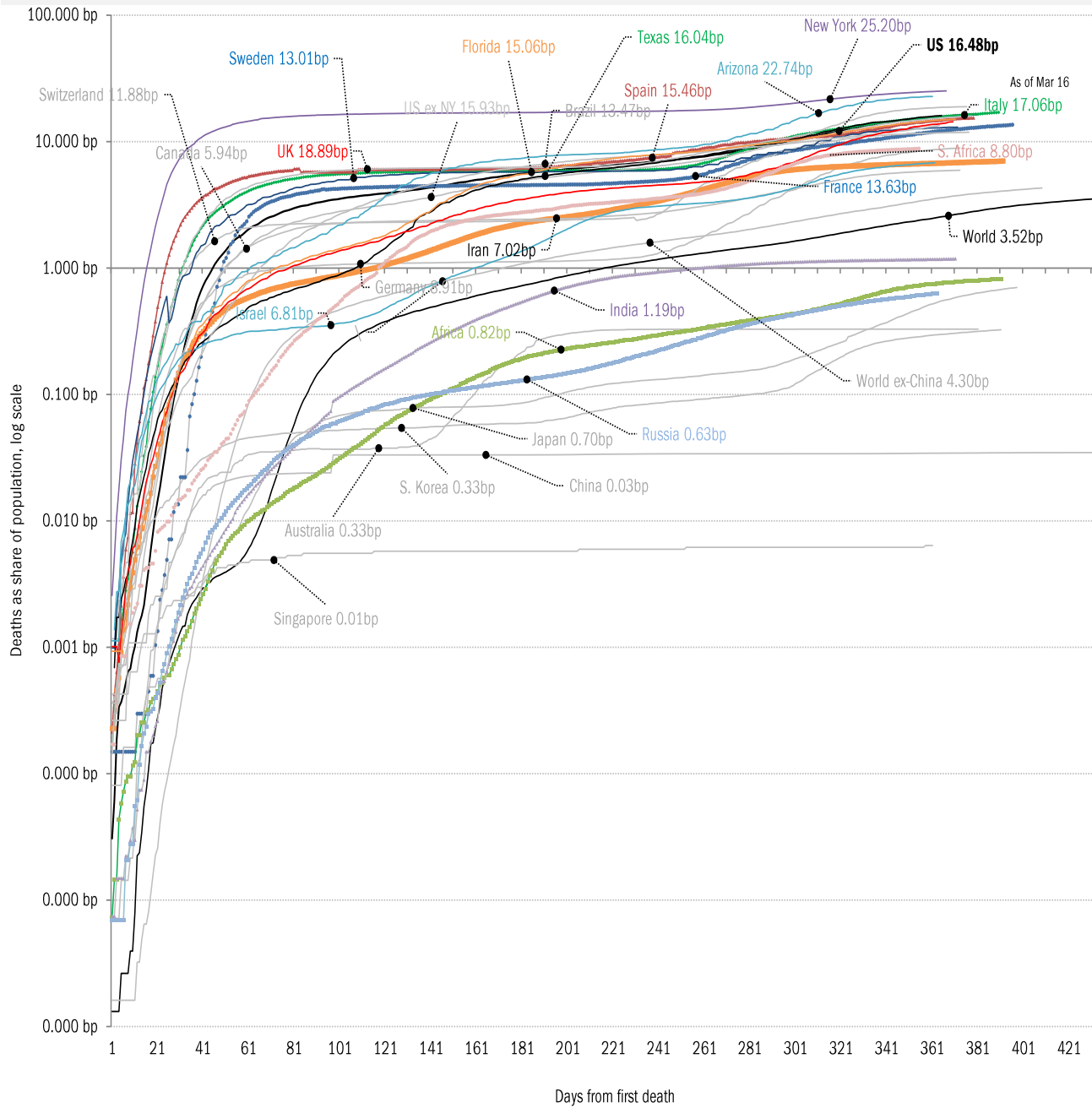
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

The coronavirus mortality accelerometer ... tracking the world's fatality curves

Share of deceased population from day of first fatality

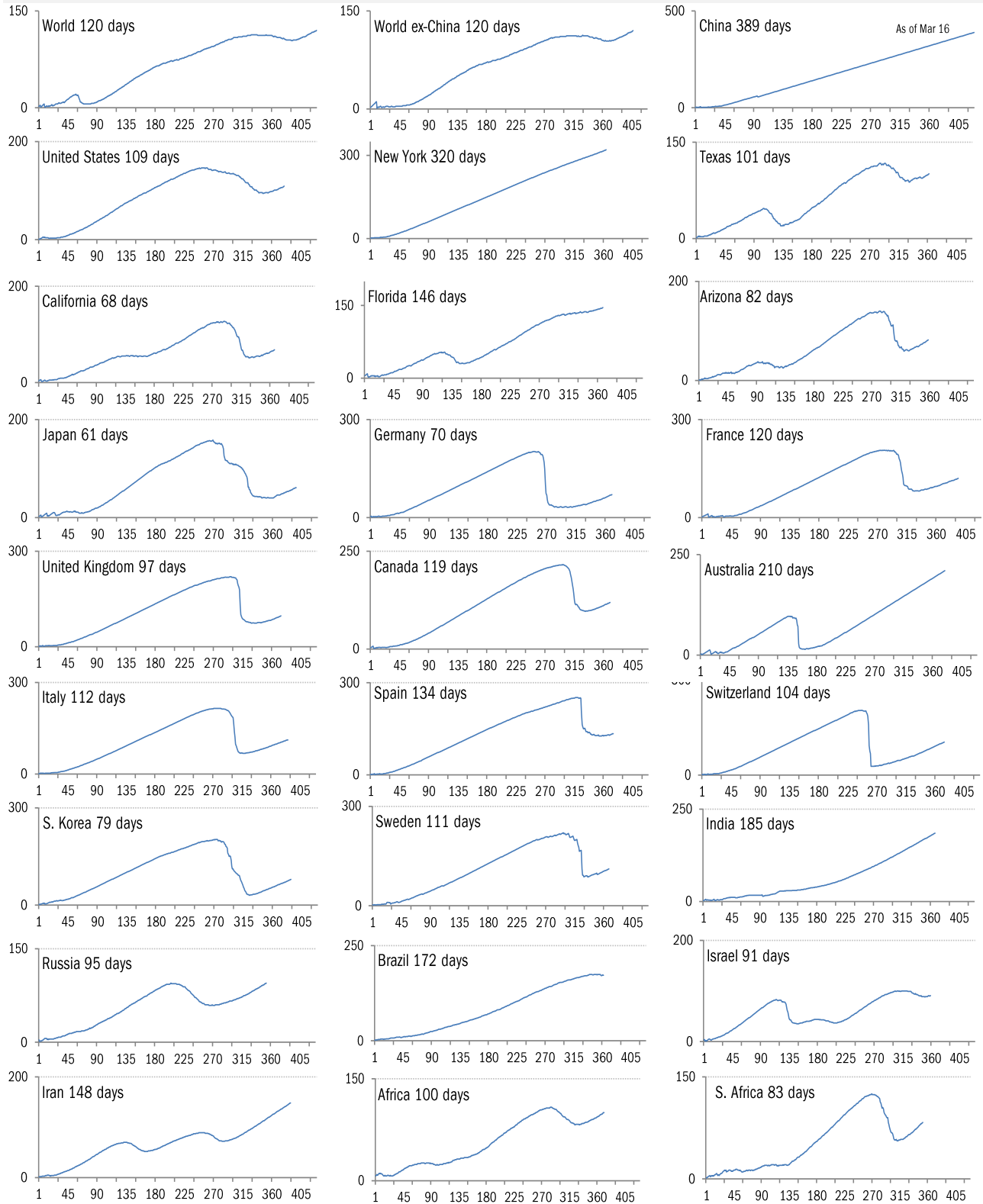


Source: [Johns Hopkins](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

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

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

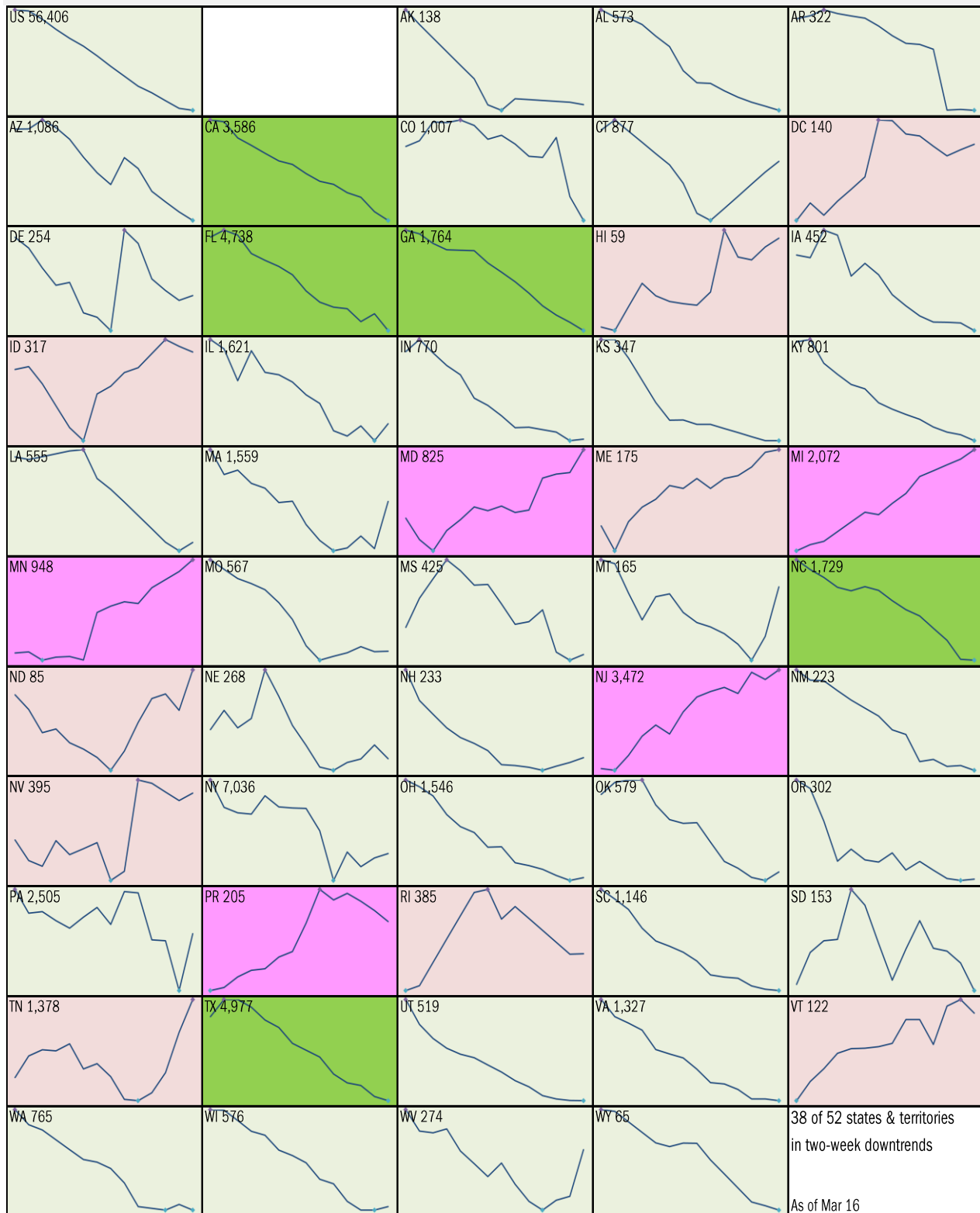


Source: [Johns Hopkins](#), TrendMacro calculations

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

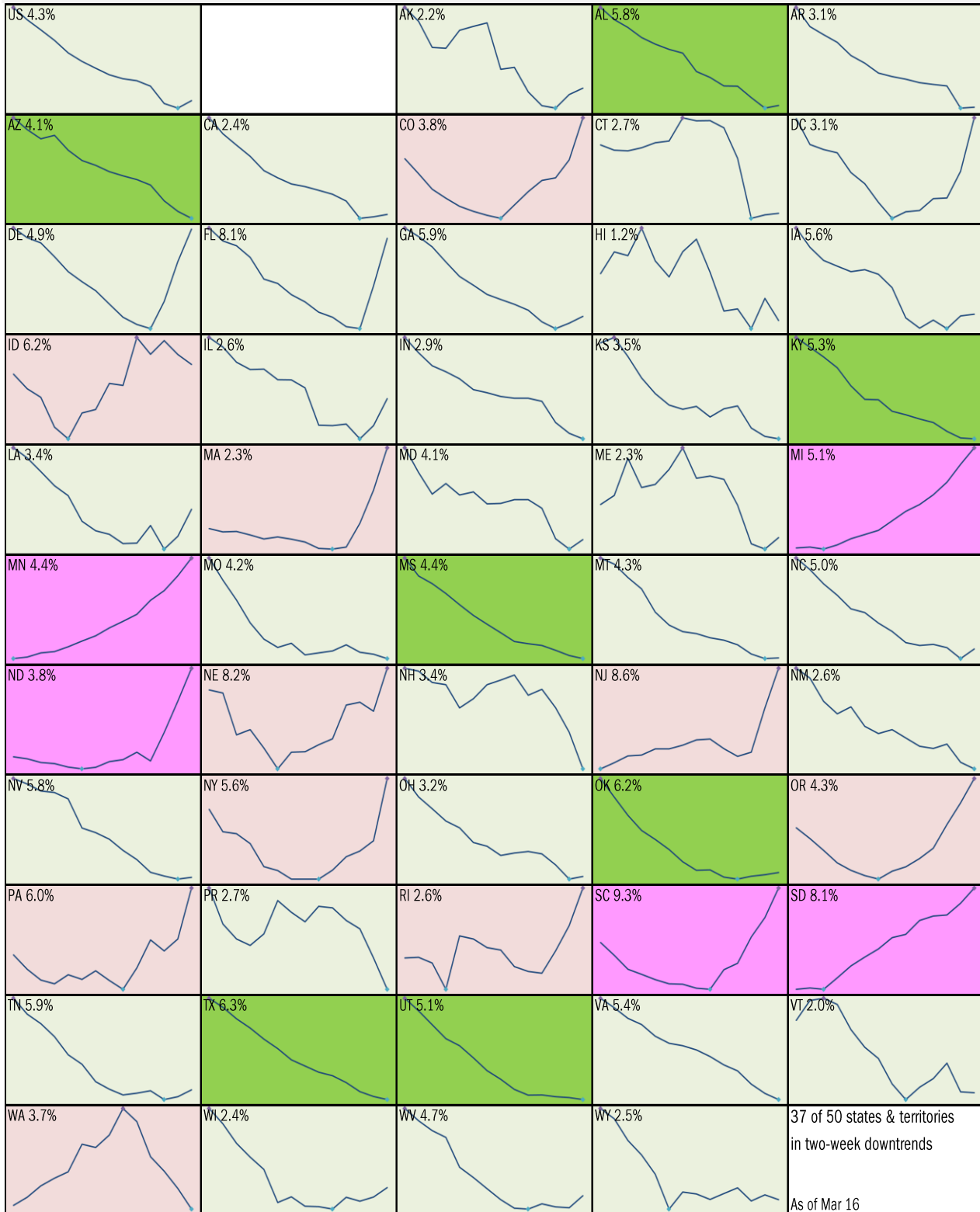


Source: [Johns Hopkins](#), TrendMacro calculations

Alt requirement to [Open Up America Again](#): 14-day “downward trajectory” in pos tests

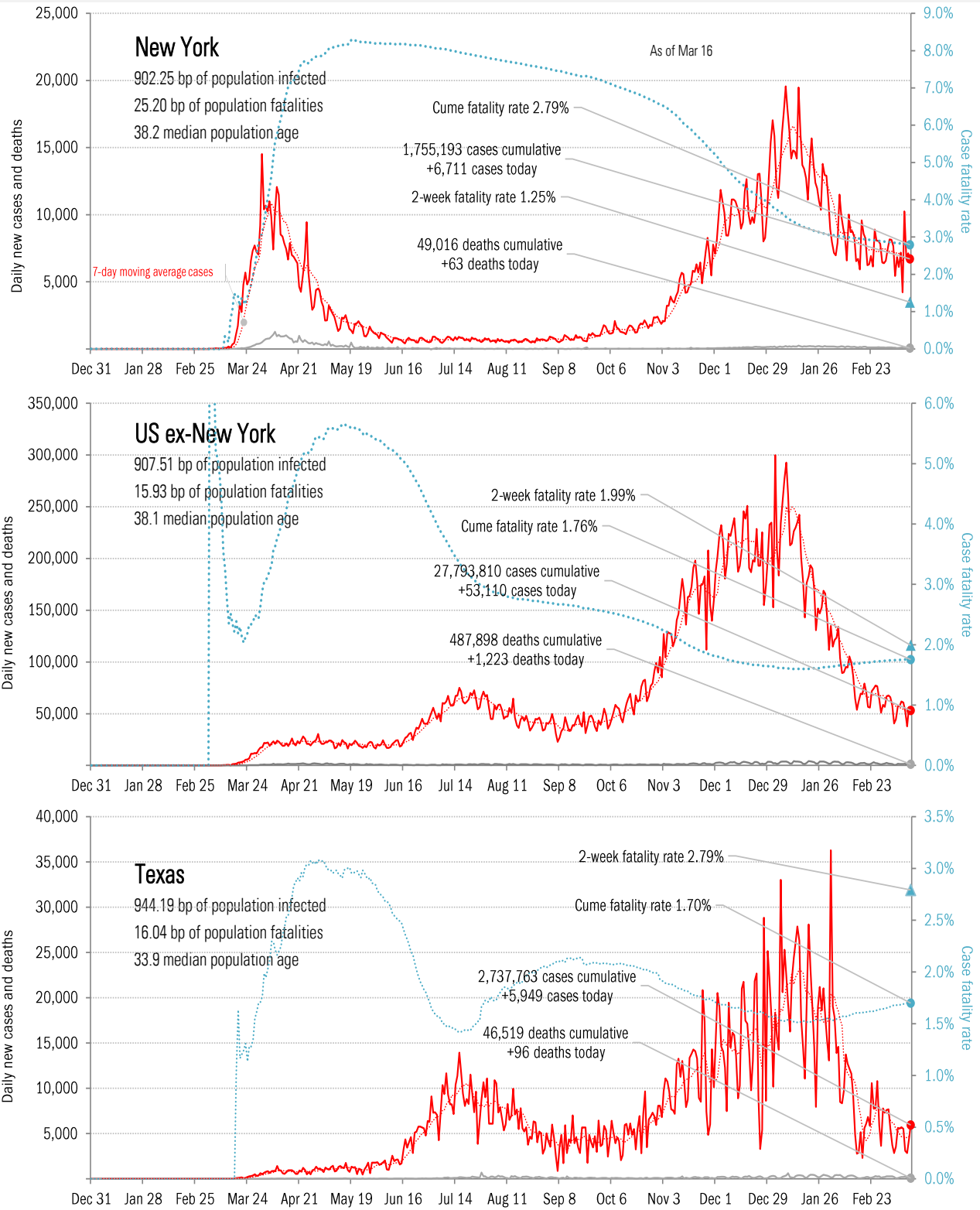
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



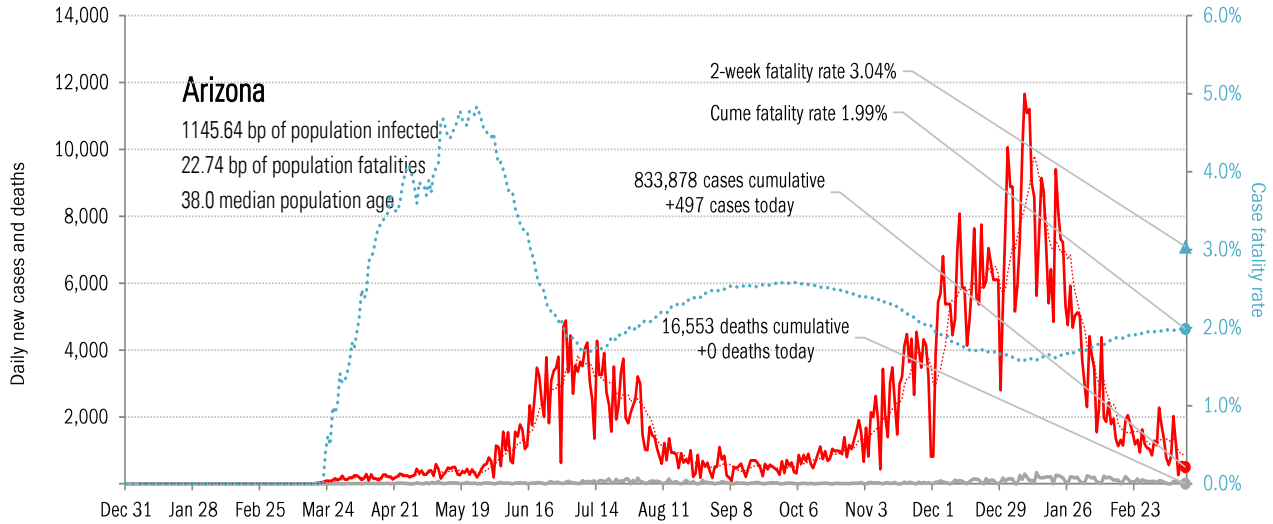
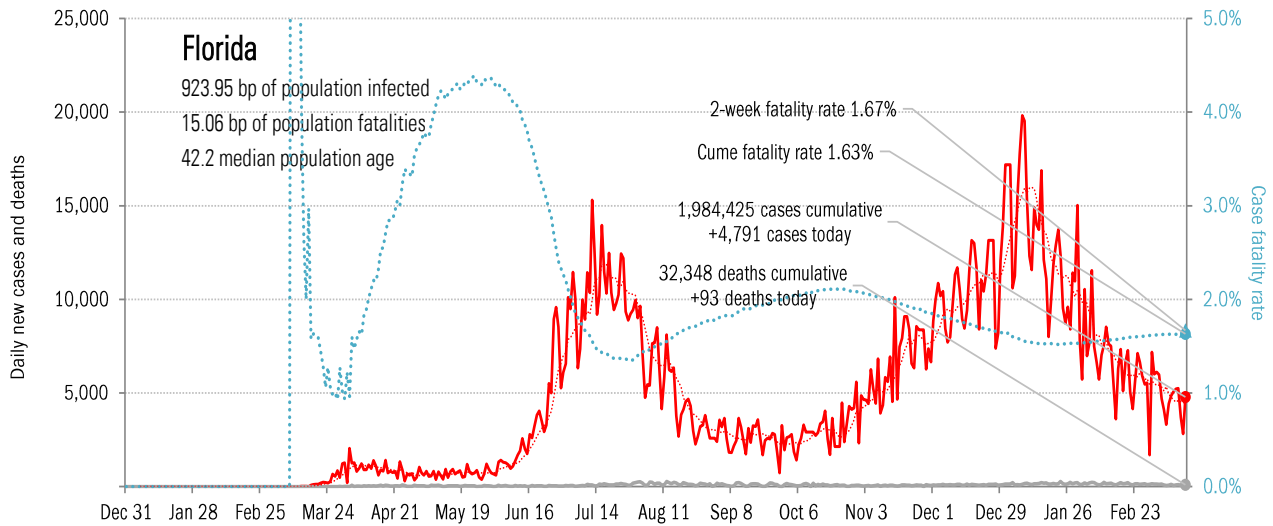
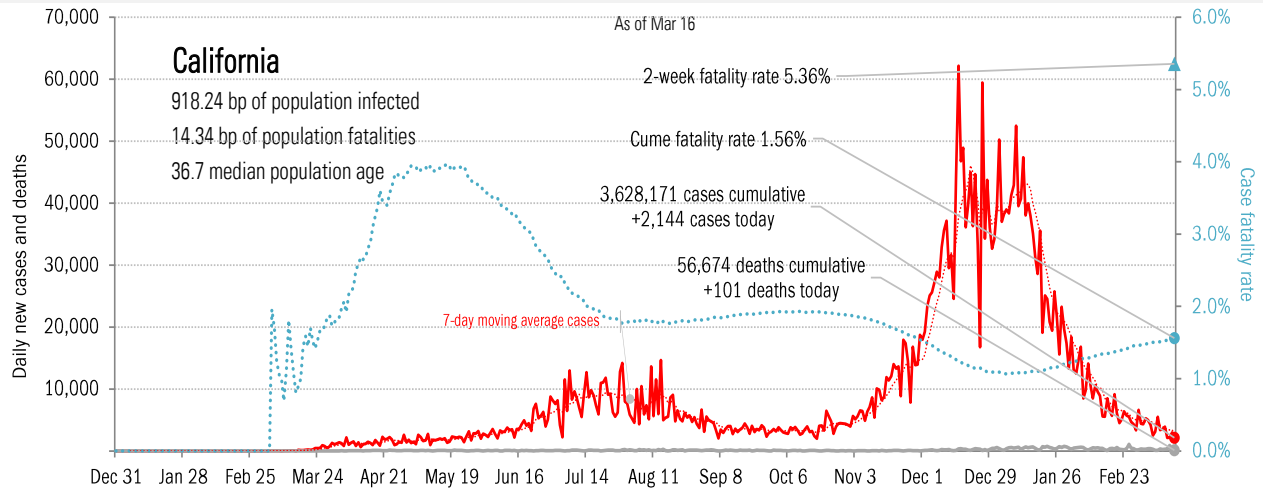
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



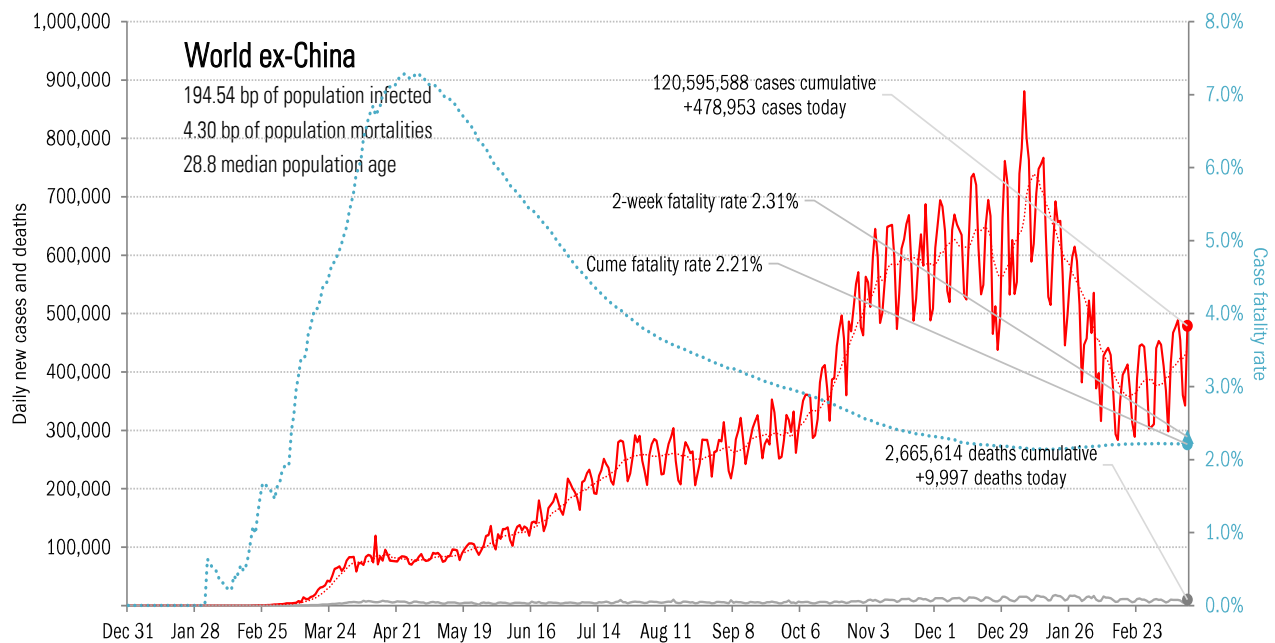
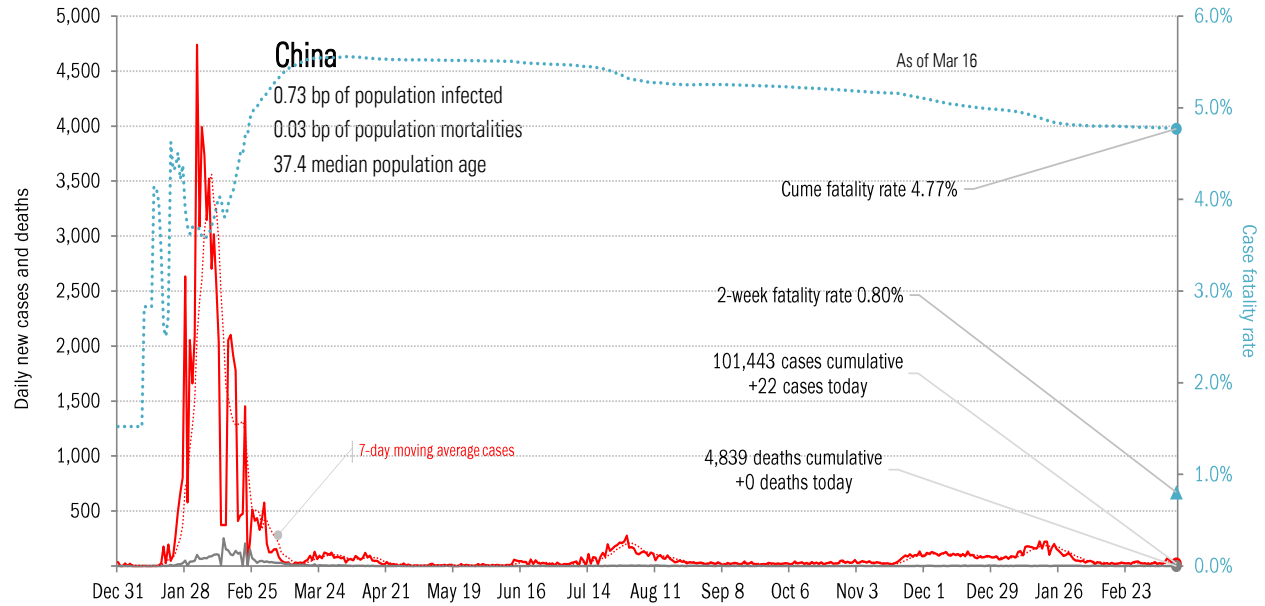
Source: [Johns Hopkins](#), TrendMacro calculations

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



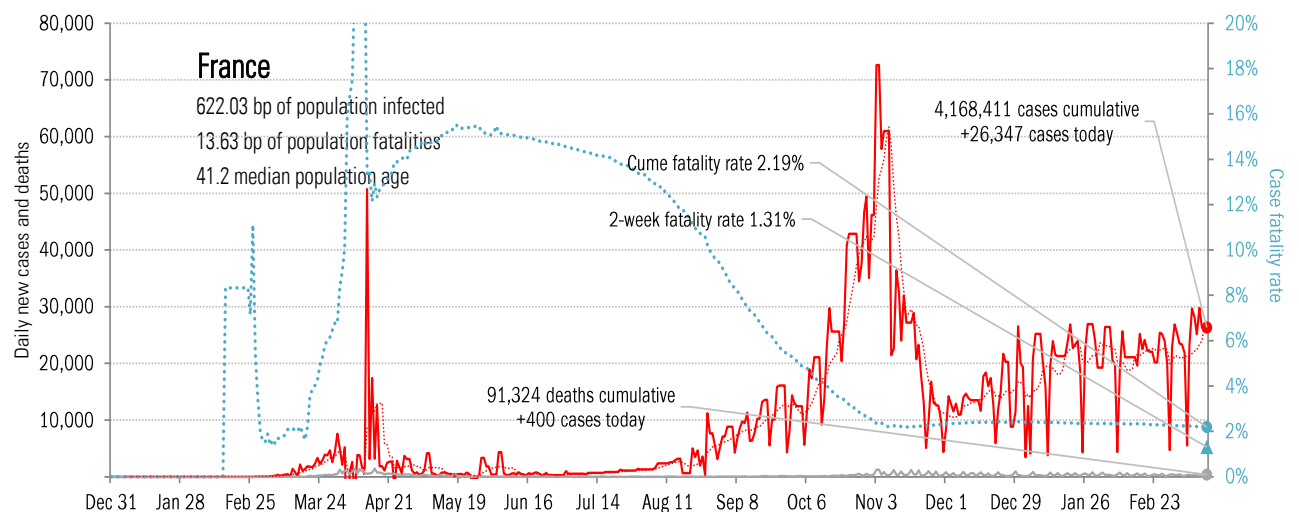
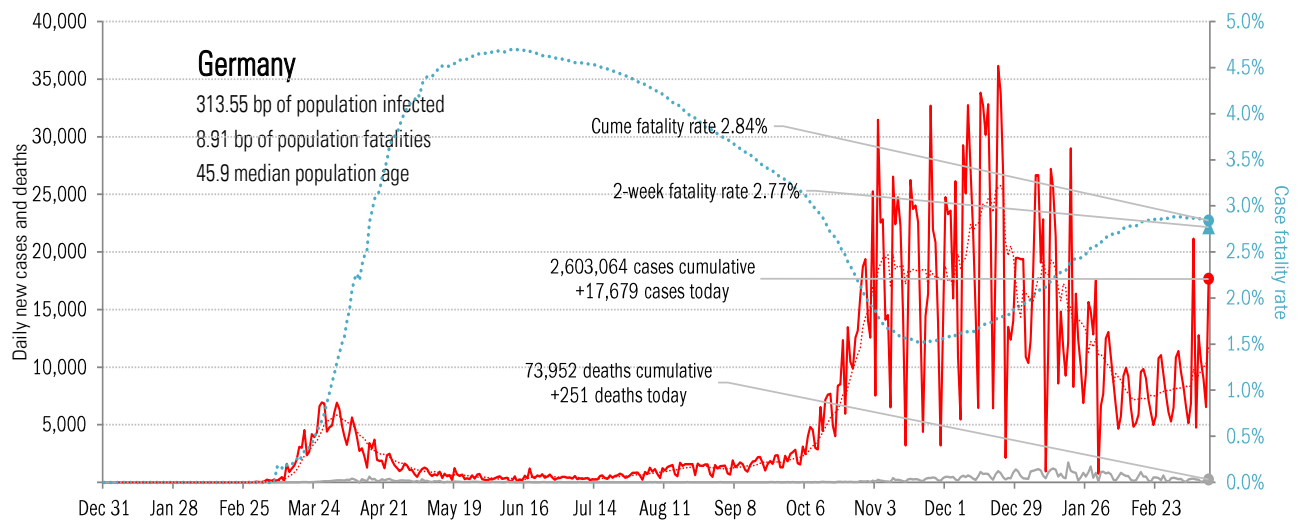
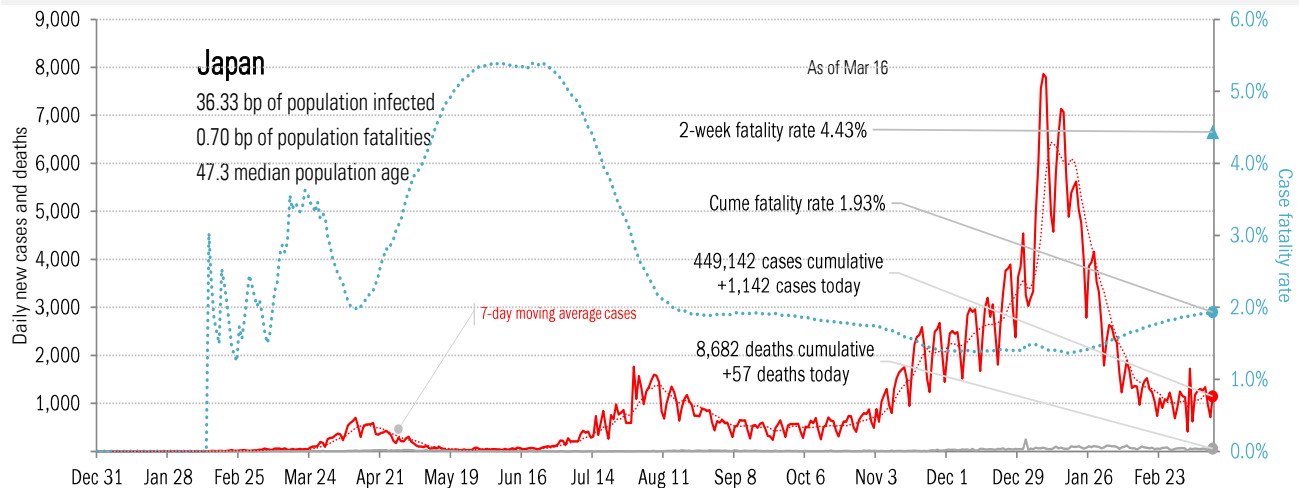
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



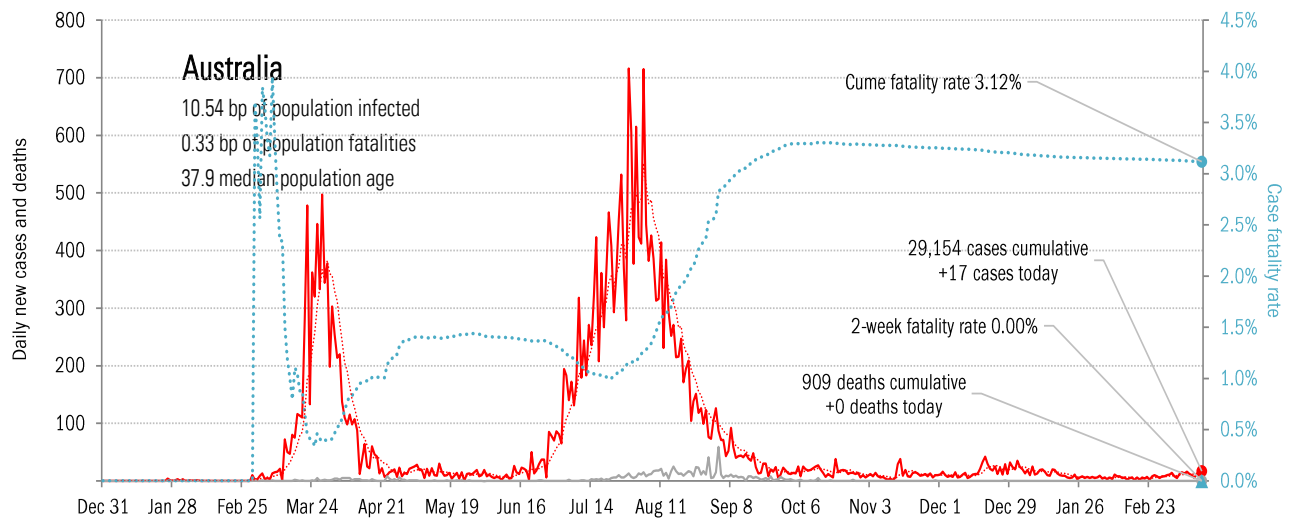
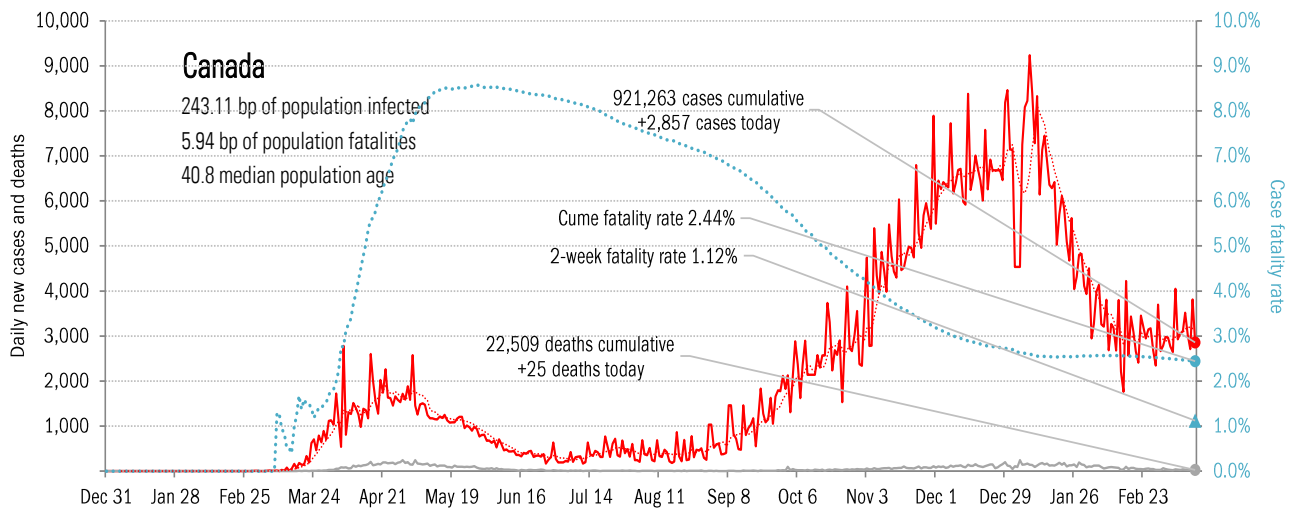
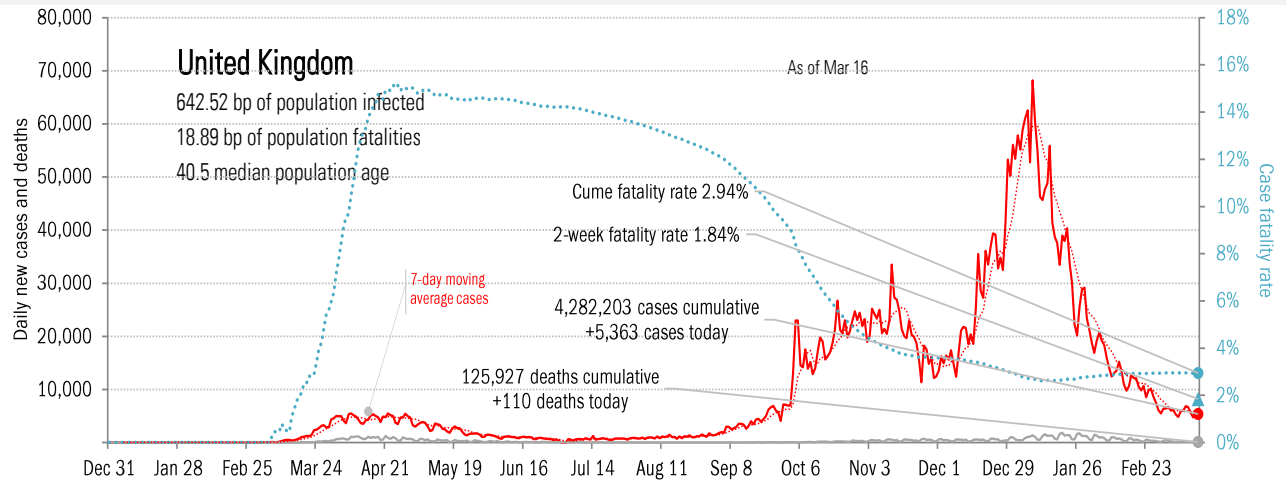
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



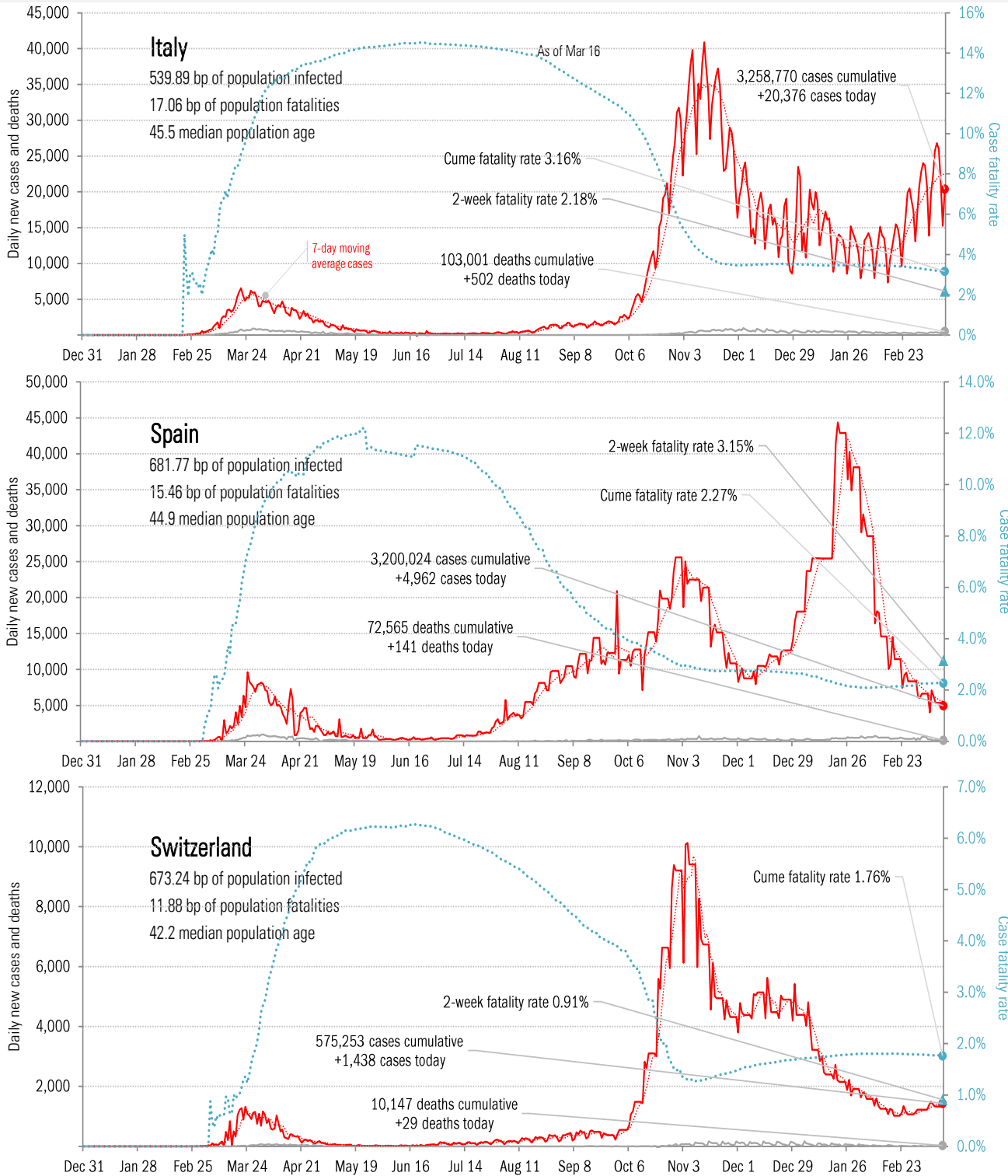
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



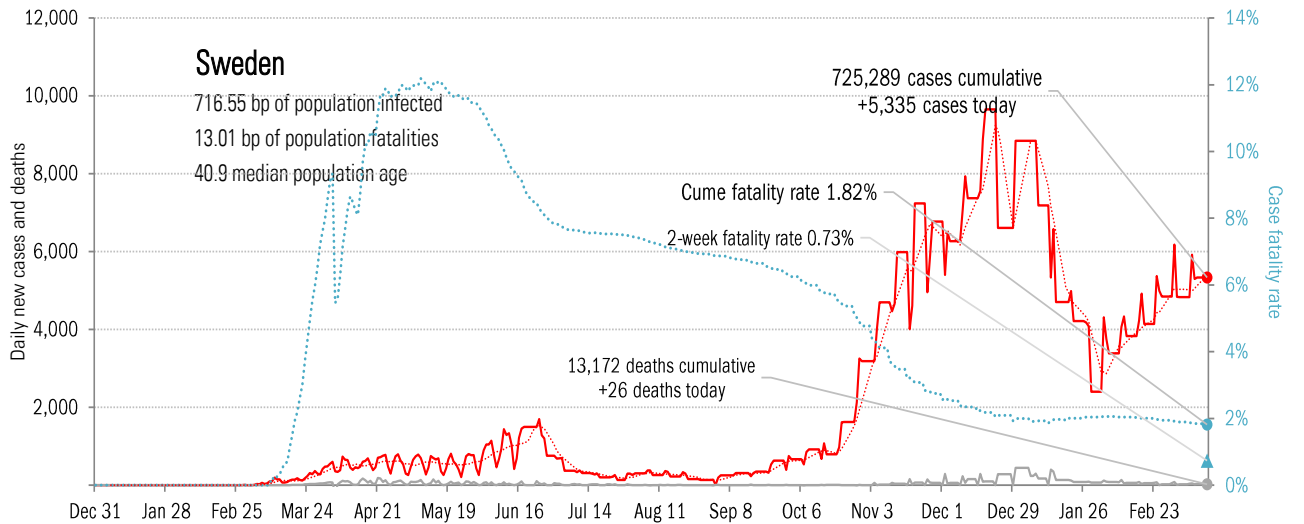
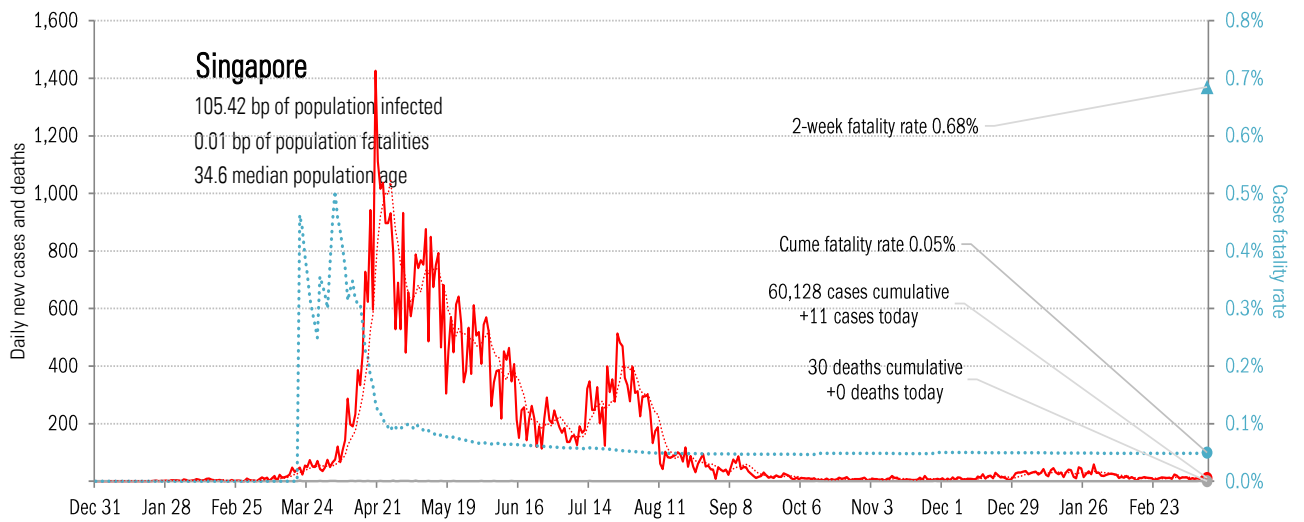
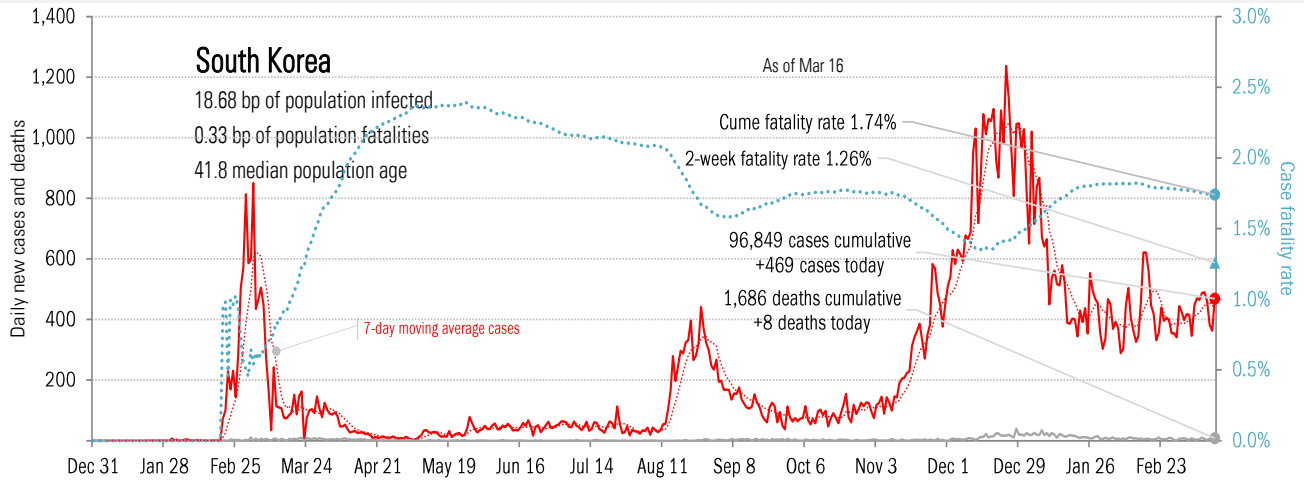
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



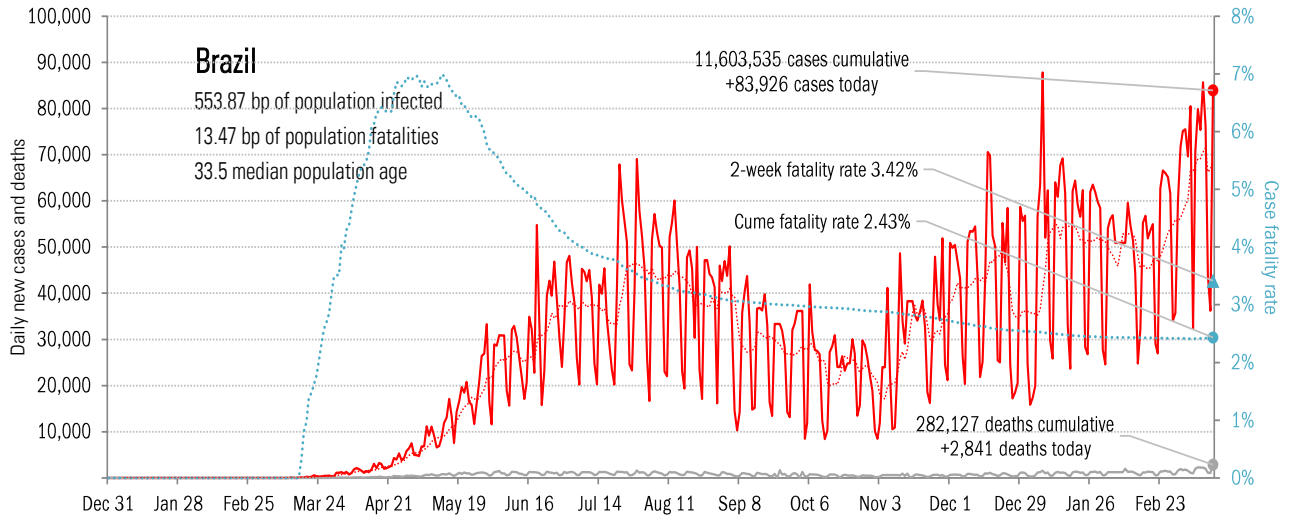
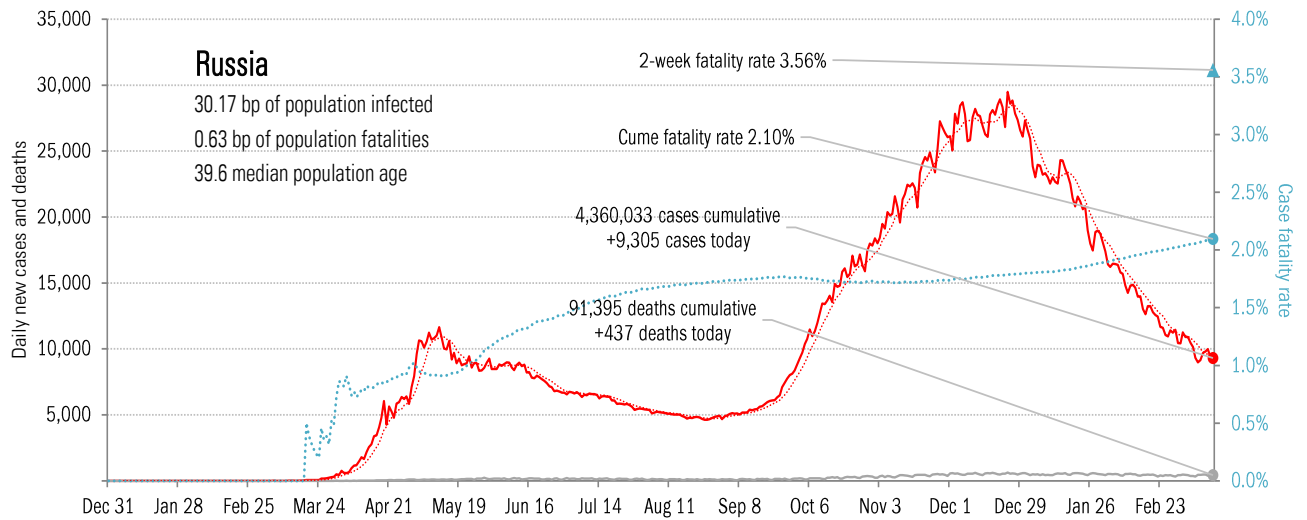
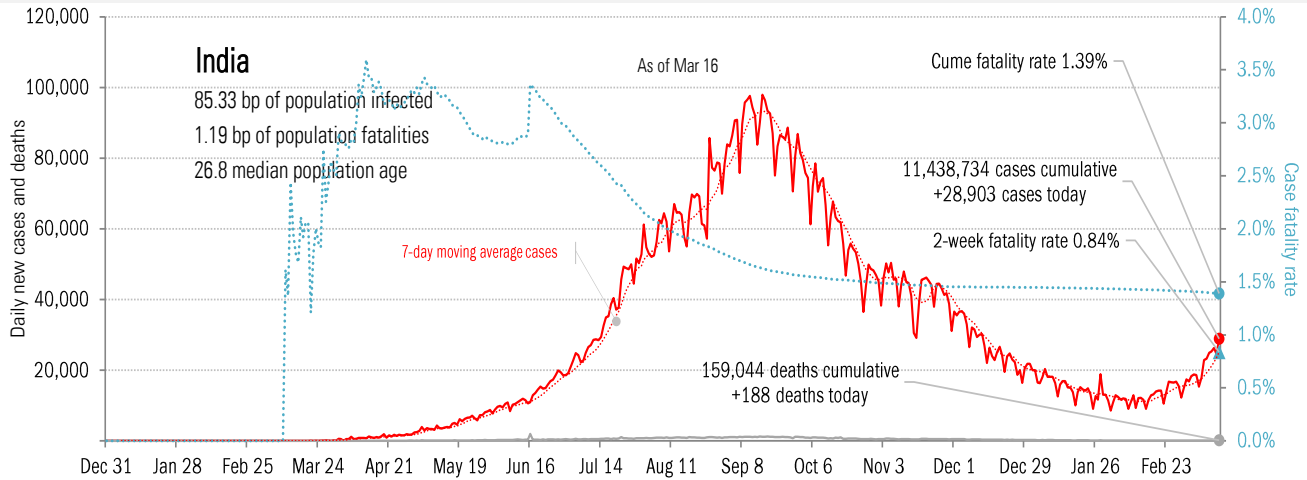
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



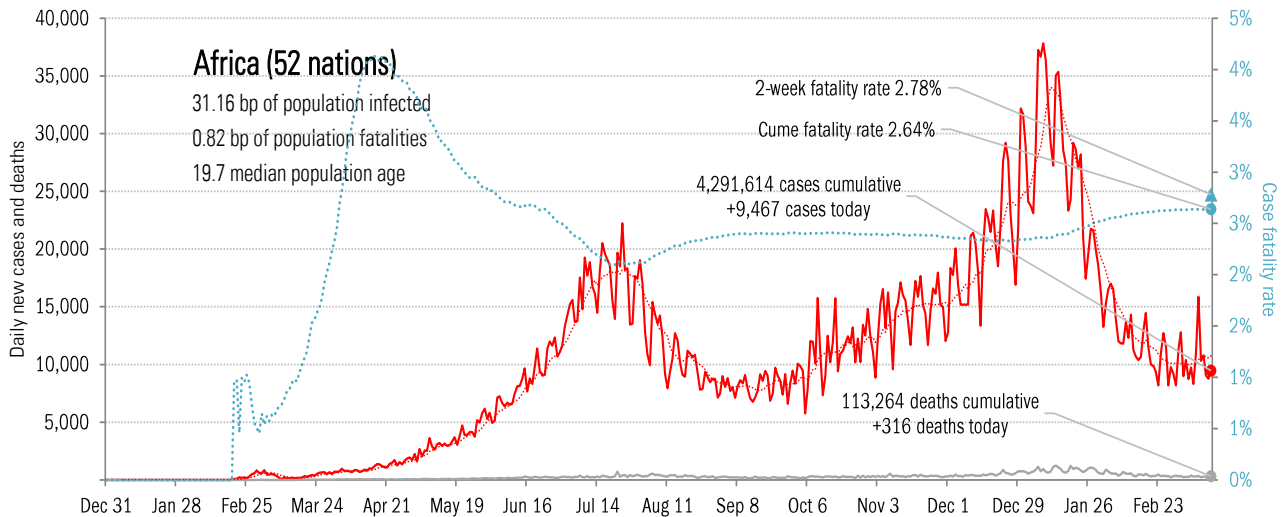
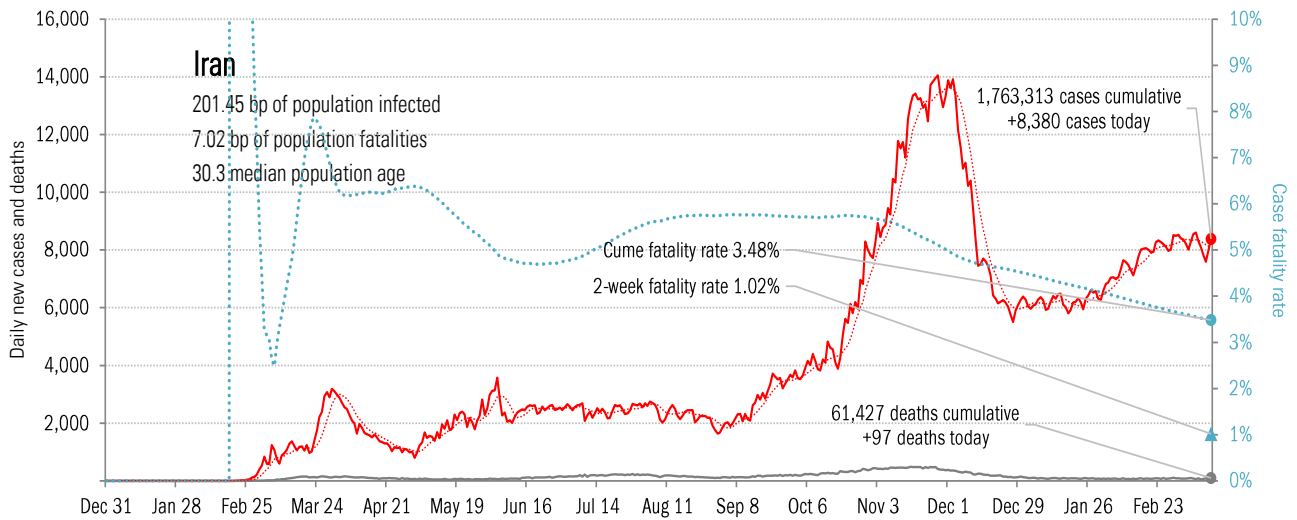
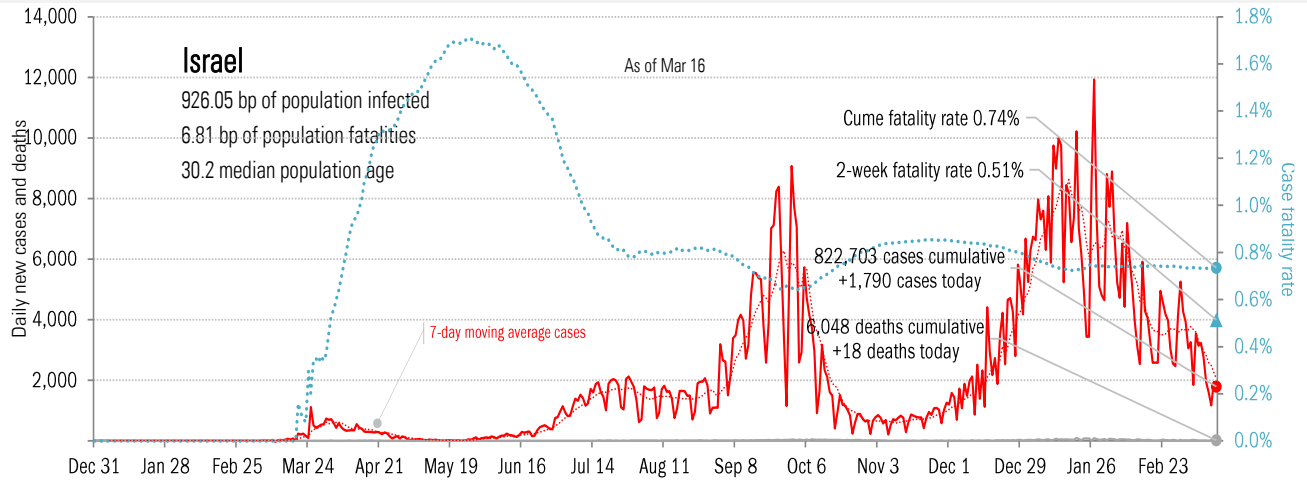
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



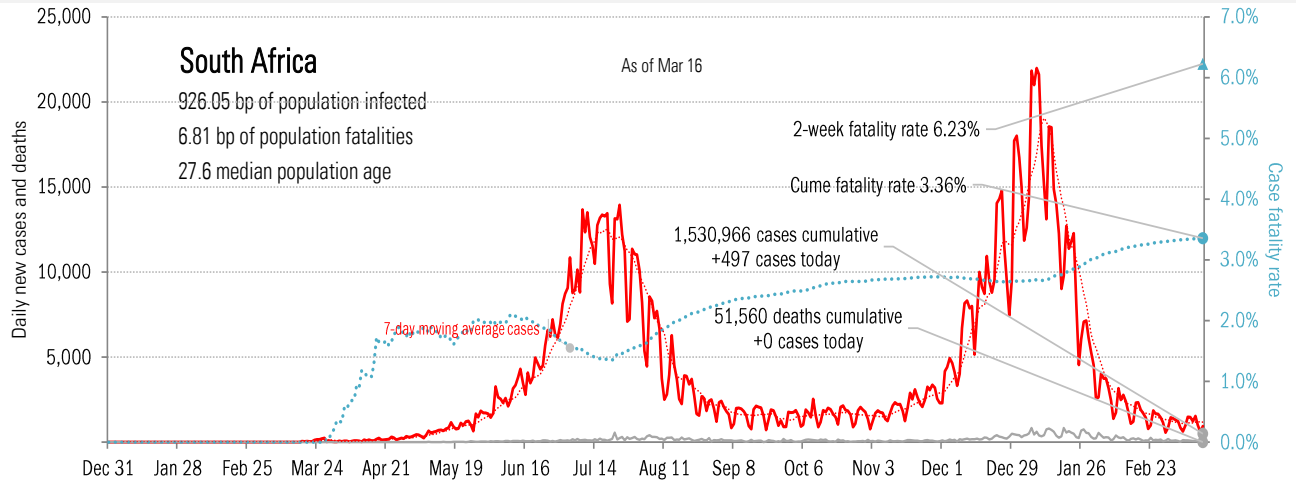
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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