

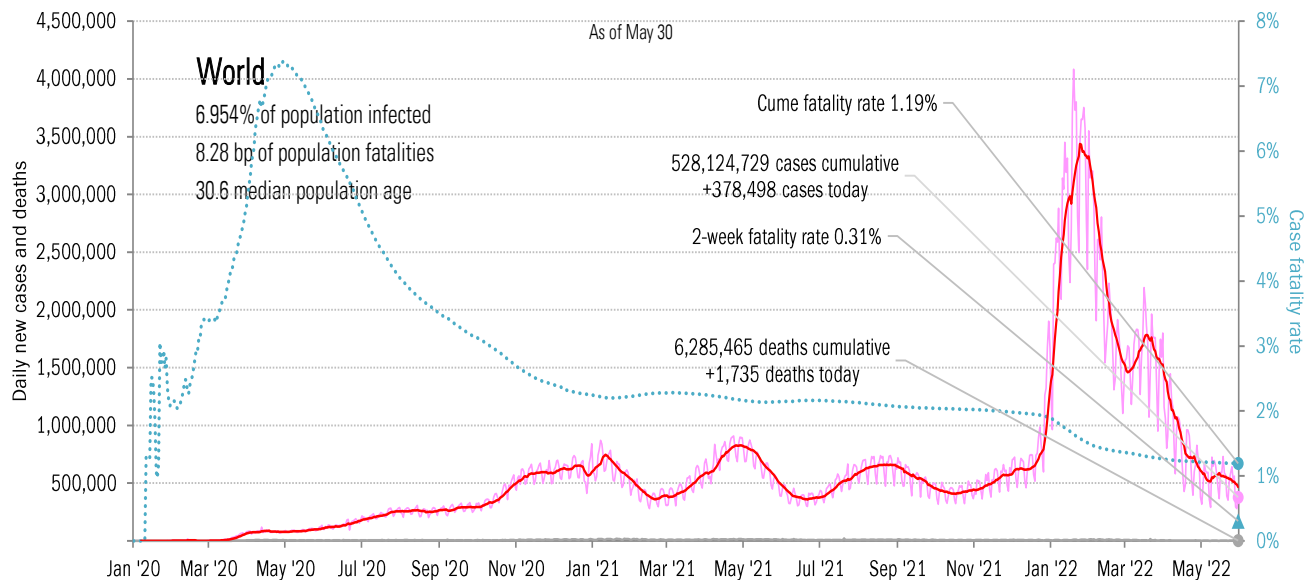
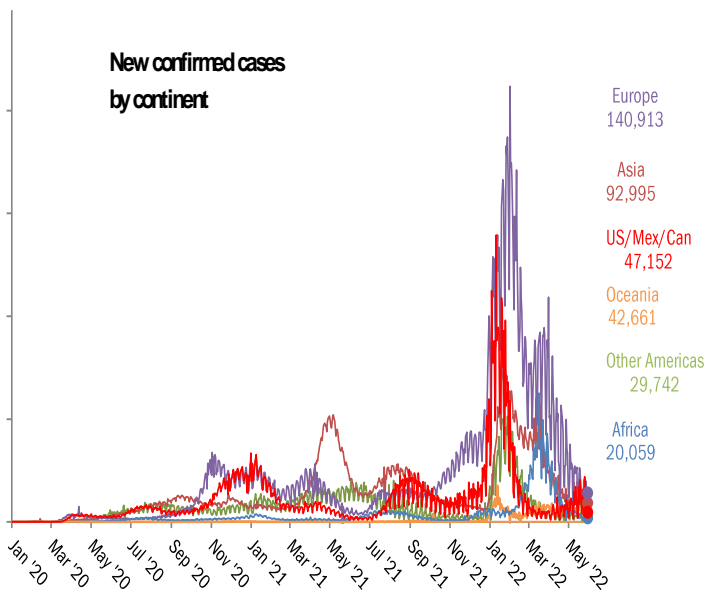
## Data Insights: Covid-2019 Monitor

Tuesday, May 31, 2022

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

| The worst ten countries |         |                |       |
|-------------------------|---------|----------------|-------|
| New cases               |         | New Deaths     |       |
| Germany                 | 61,889  | United States  | 519   |
| Taiwan*                 | 60,083  | Germany        | 136   |
| Australia               | 33,976  | Mexico         | 127   |
| United States           | 32,993  | France         | 121   |
| Portugal                | 26,049  | Taiwan*        | 109   |
| Brazil                  | 24,082  | United Kingdom | 84    |
| United Kingdom          | 17,931  | Russia         | 72    |
| Korea, South            | 17,176  | Brazil         | 63    |
| Mexico                  | 13,223  | Italy          | 62    |
| Japan                   | 12,057  | Australia      | 55    |
| 299,459                 |         | 1,348          |       |
| World                   | 378,498 | World          | 1,735 |
| Top ten                 | 79%     | Top ten        | 78%   |



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

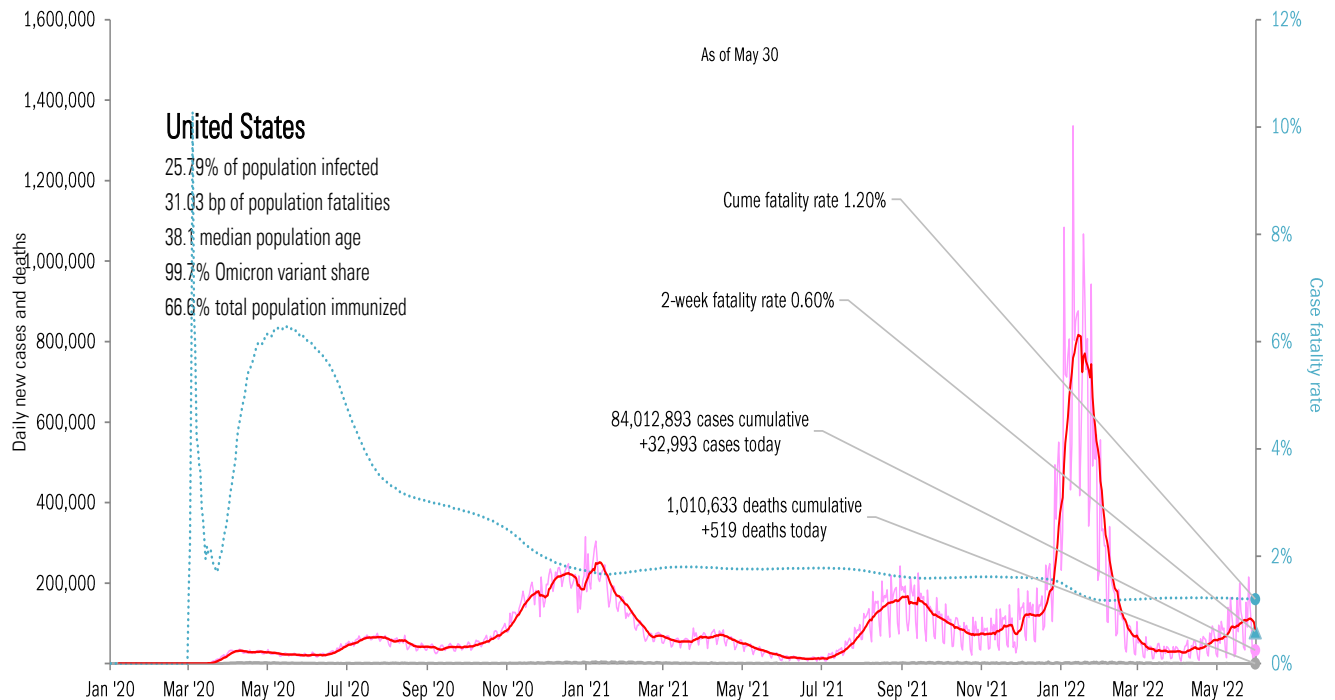
| New cases  |        |     | New deaths |            |            | New in hospital |           |            | Curre cases |         |    | Curre deaths |    |     | Curre in hospital |  |  | Hospital use |  | ICU use |  |
|------------|--------|-----|------------|------------|------------|-----------------|-----------|------------|-------------|---------|----|--------------|----|-----|-------------------|--|--|--------------|--|---------|--|
| CA         | 19,777 | 13  | CA         | 406        | CA         | 9,570,326       | CA        | 91,311     | TX          | 494,135 | RI | 91%          | TX | 81% |                   |  |  |              |  |         |  |
| TX         | 2,420  | 12  | FL         | 381        | TX         | 6,927,334       | TX        | 88,348     | CA          | 434,944 | MA | 85%          | RI | 80% |                   |  |  |              |  |         |  |
| AZ         | 1,643  | 6   | GA         | 99         | FL         | 6,123,543       | FL        | 74,617     | FL          | 425,672 | MN | 85%          | AK | 79% |                   |  |  |              |  |         |  |
| DE         | 1,555  | 6   | NV         | 60         | NY         | 5,414,434       | NY        | 68,955     | NY          | 262,465 | WA | 83%          | NC | 79% |                   |  |  |              |  |         |  |
| KY         | 215    | 6   | MO         | 61         | IL         | 3,286,377       | PA        | 45,147     | GA          | 209,452 | MO | 80%          | AL | 78% |                   |  |  |              |  |         |  |
| AR         | 88     | 6   | FR         | 28         | PA         | 2,907,324       | CH        | 38,628     | CH          | 195,413 | WV | 80%          | MA | 78% |                   |  |  |              |  |         |  |
| AS         | 15     | 3   | IA         | 43         | CH         | 2,763,123       | GA        | 38,198     | PA          | 182,001 | MD | 80%          | NM | 78% |                   |  |  |              |  |         |  |
|            |        | 0   | IL         | 182        | NC         | 2,744,935       | MI        | 36,357     | IL          | 163,060 | GA | 79%          | WA | 77% |                   |  |  |              |  |         |  |
|            |        | 0   | WV         | 34         | GA         | 2,556,044       | IL        | 36,239     | MI          | 146,501 | CT | 79%          | CR | 75% |                   |  |  |              |  |         |  |
|            |        | 0   | UT         | 33         | MI         | 2,527,831       | NJ        | 33,696     | KY          | 134,159 | DE | 78%          | NV | 75% |                   |  |  |              |  |         |  |
| 33,208     |        |     | 46         |            |            | 1,327           |           |            | 44,821,271  |         |    | 551,496      |    |     | 2,647,802         |  |  |              |  |         |  |
| All states | 32,993 | 519 | 3,533      | All states | 84,012,893 | 1,010,633       | 4,808,438 | All states | 70%         | 67%     |    |              |    |     |                   |  |  |              |  |         |  |
| Top ten    | 101%   | 9%  | 38%        | Top ten    | 53%        | 55%             | 55%       | Median     | 74%         | 71%     |    |              |    |     |                   |  |  |              |  |         |  |

US state case and fatality data distorted today due to holidays.

Some states not reporting

## Five most improved US states

| Fewer daily cases |        | Fewer new deaths |      | Fewer new hospitalizations |     | Most pop immunity growth |        |
|-------------------|--------|------------------|------|----------------------------|-----|--------------------------|--------|
| FR                | -1,696 | FL               | -125 | WA                         | -70 | AL                       | +10 bp |
| AR                | -162   | FR               | -4   | NJ                         | -68 | TN                       | +10 bp |
| AK                | 0      | AK               | 0    | LA                         | -40 | GA                       | +10 bp |
| AL                | 0      | AL               | 0    | VA                         | -29 | MO                       | +10 bp |
| CO                | 0      | AS               | 0    | MD                         | -28 | SC                       | +10 bp |



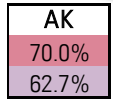
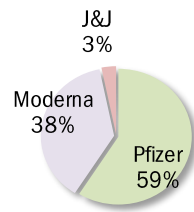
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

| Administered     | Cumulative      | Today          | Immunity      | Full         | Partial                 |
|------------------|-----------------|----------------|---------------|--------------|-------------------------|
| Doses            | 601,965,569     | +0.255 million | US            | 66.6%        | 77.9%                   |
| Boosters         | 44,931,495      | +0.016 million | UK            | 73.2%        | 78.3%                   |
|                  | <b>One dose</b> | <b>% Pop</b>   | <b>Immune</b> | <b>% pop</b> | <b>New immune today</b> |
| Total population | 266,300,316     | 80%            | 227,520,145   | 68%          | +0.032 million          |
| Age 12 to 17     | 17,790,118      | 70%            | 11,653,087    | 65%          | +0.002 million          |
| Age 18 to 64     | 178,919,616     | 88%            | 155,800,000   | 86%          | +0.002 million          |
| Age 65 and over  | 59,125,504      | 100%           | 55,067,058    | 93%          | +0.002 million          |

The CDC did not update vaccination data today.

Global data differs due to sources, timing



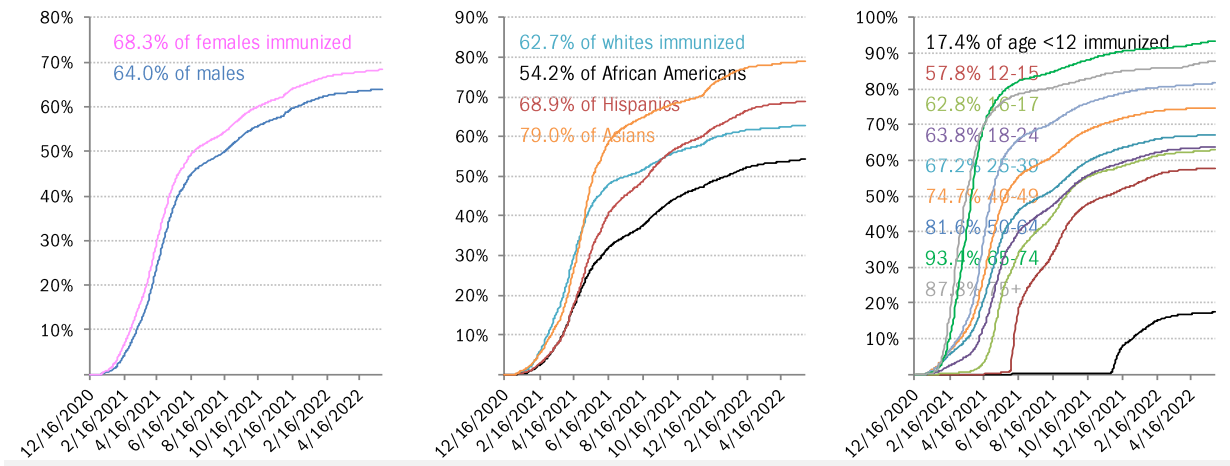
| State                                     | Best   |
|---|--------|
| At least partial immunity as % population | Middle |
| Full immunity as % population             | Worst  |

"Immunity" = two doses

As of May 27

|                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                      |                      |                      |                      |                      | WI<br>72.1%<br>65.8% |                      |                      |                      |                      |                      | ME<br>91.1%<br>80.1% |
| WA<br>81.1%<br>72.9% | ID<br>61.9%<br>55.6% | MT<br>65.5%<br>57.0% | ND<br>65.8%<br>55.8% | MN<br>75.4%<br>69.5% | IL<br>76.5%<br>69.1% | MI<br>67.2%<br>60.4% |                      | NY<br>90.6%<br>77.4% | VT<br>94.0%<br>81.6% |                      | NH<br>88.9%<br>71.1% |
| OR<br>78.2%<br>69.9% | NV<br>75.6%<br>61.1% | WY<br>58.3%<br>51.1% | SD<br>77.1%<br>62.0% | IA<br>68.2%<br>62.2% | IN<br>61.7%<br>55.2% | OH<br>63.8%<br>59.0% | PA<br>85.5%<br>69.0% | NJ<br>90.9%<br>76.1% | MA<br>95.0%<br>79.5% |                      |                      |
| CA<br>82.5%<br>72.6% | UT<br>72.3%<br>64.5% | CO<br>79.7%<br>70.5% | NE<br>70.5%<br>63.8% | MO<br>66.5%<br>56.4% | KY<br>66.4%<br>57.6% | WV<br>65.3%<br>57.8% | VA<br>86.1%<br>73.6% | MD<br>86.9%<br>76.1% | CT<br>95.0%<br>79.7% | RI<br>95.0%<br>83.2% |                      |
|                      | AZ<br>73.6%<br>62.0% | NM<br>88.3%<br>71.6% | KS<br>74.8%<br>61.8% | AR<br>67.0%<br>54.7% | TN<br>62.4%<br>54.8% | NC<br>85.0%<br>61.9% | SC<br>68.0%<br>57.4% | DC<br>95.0%<br>78.4% | DE<br>83.7%<br>69.7% |                      |                      |
|                      |                      |                      | OK<br>71.4%<br>57.6% | LA<br>61.2%<br>53.7% | MS<br>59.8%<br>52.0% | AL<br>63.0%<br>51.4% | GA<br>65.7%<br>55.1% |                      |                      |                      |                      |
| HI<br>87.8%<br>78.6% |                      |                      | TX<br>73.7%<br>61.9% |                      |                      |                      |                      | FL<br>79.7%<br>67.3% |                      | PR<br>95.0%<br>83.4% |                      |

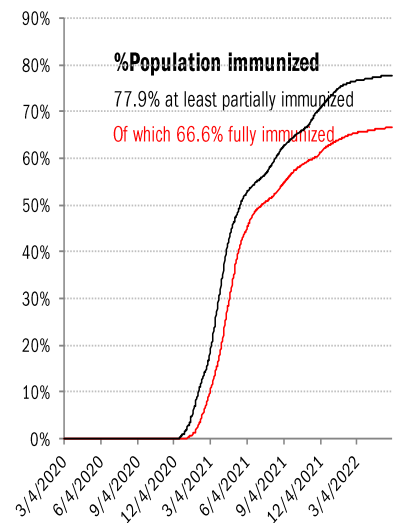
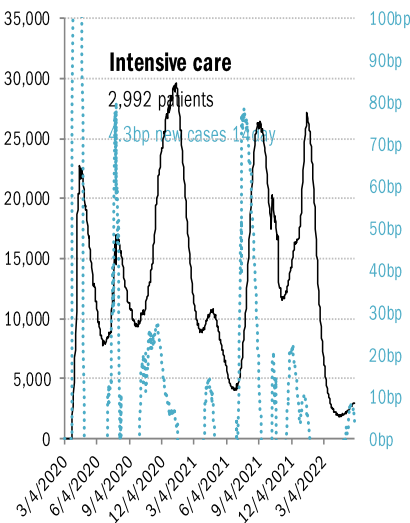
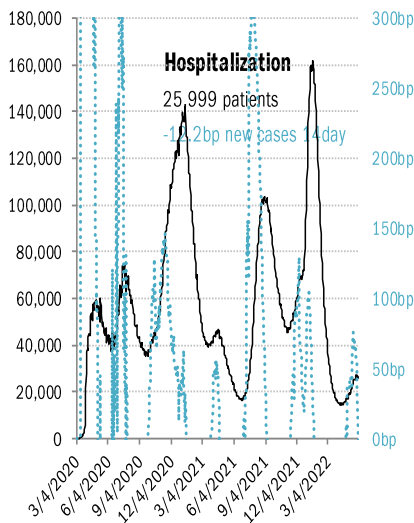
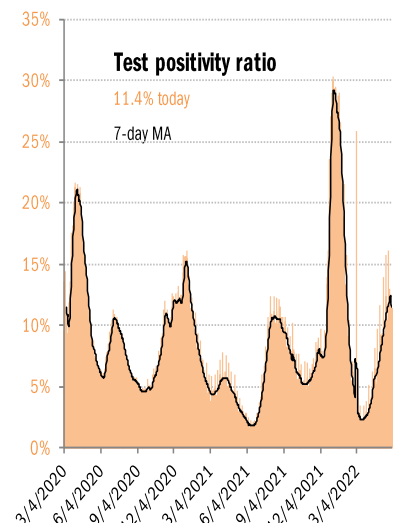
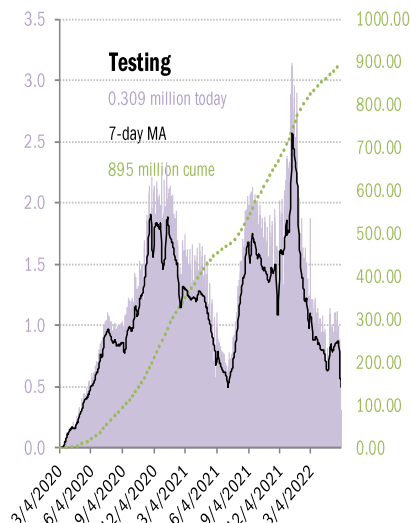
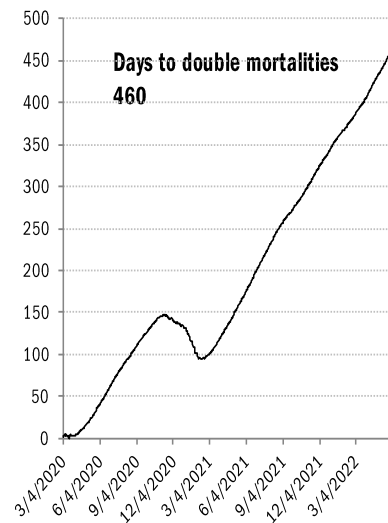
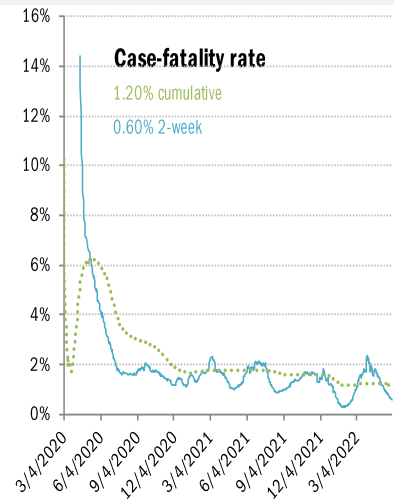
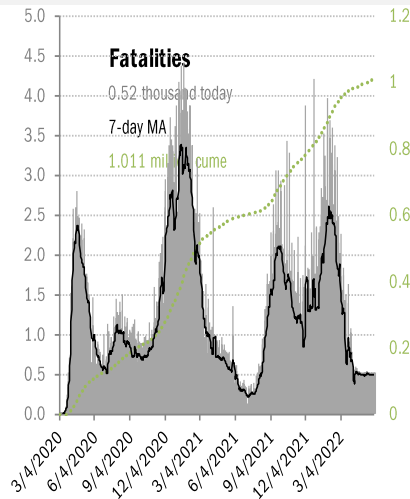
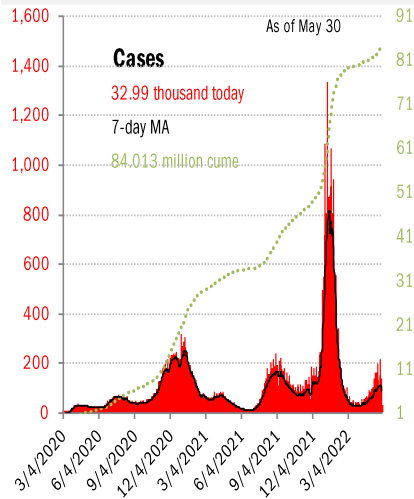
## The demographics of US vaccination



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

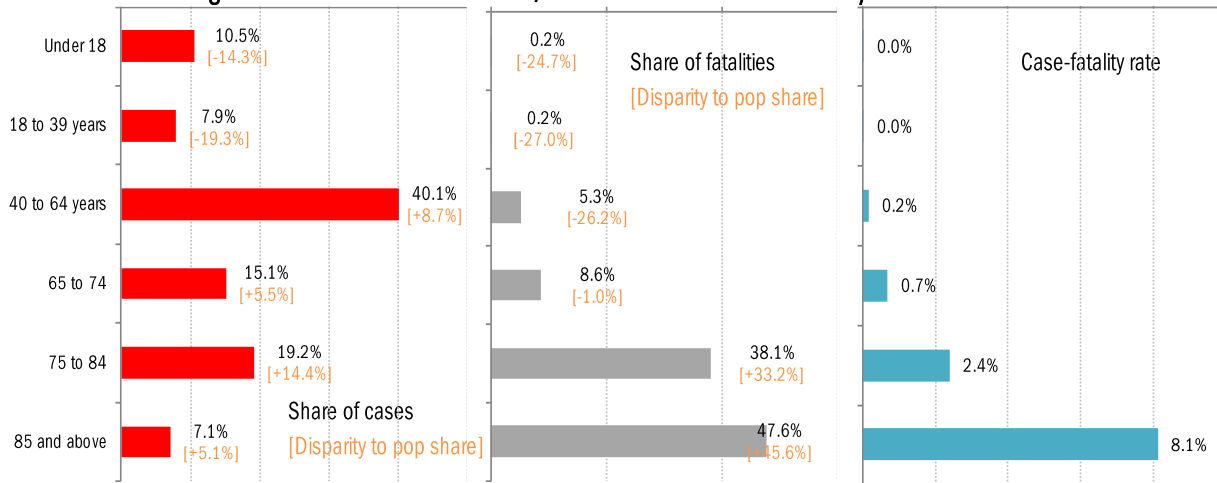
# US deep-dive

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

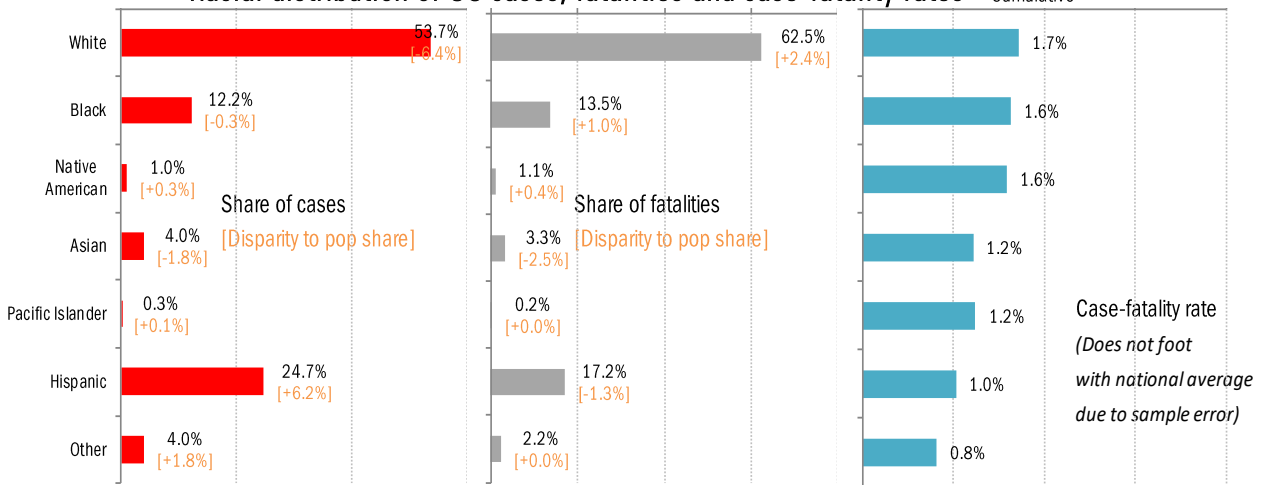


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

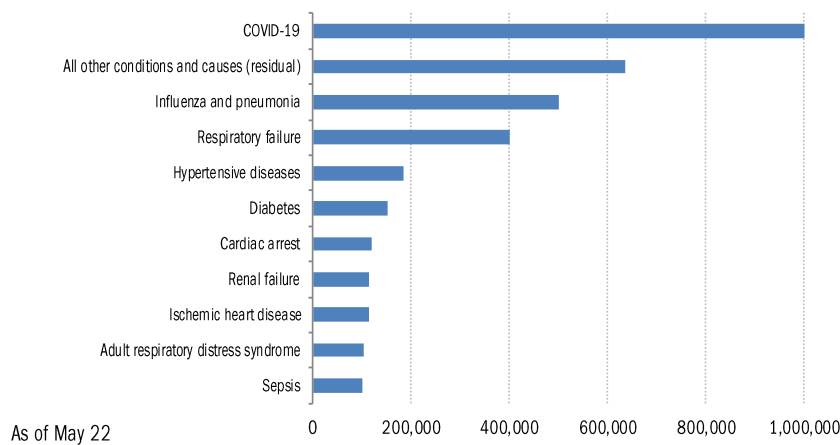


**Racial distribution of US cases, fatalities and case-fatality rates**



**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

### [How to Make Up the Covid Learning Loss](#)

Roland Fryer  
*Wall Street Journal*  
May 30, 2022

### [Why Won't the FDA Let Doctors Prescribe Fluvoxamine for Covid?](#)

Allysia Finley  
*Wall Street Journal*  
May 30, 2022

### [You Are Going to Get COVID Again ... And Again ... And Again](#)

Katherine J. Wu  
*The Atlantic*  
May 27, 2022

### [Initial observations about putative APOBEC3 deaminase editing driving short-term evolution of MPXV since 2017](#)

Áine O'Toole & Andrew Rambaut  
*Virological*  
May 30, 2022

### [Florida IG report: 'Insufficient evidence' for DeSantis critic's claims of Covid cover-up](#)

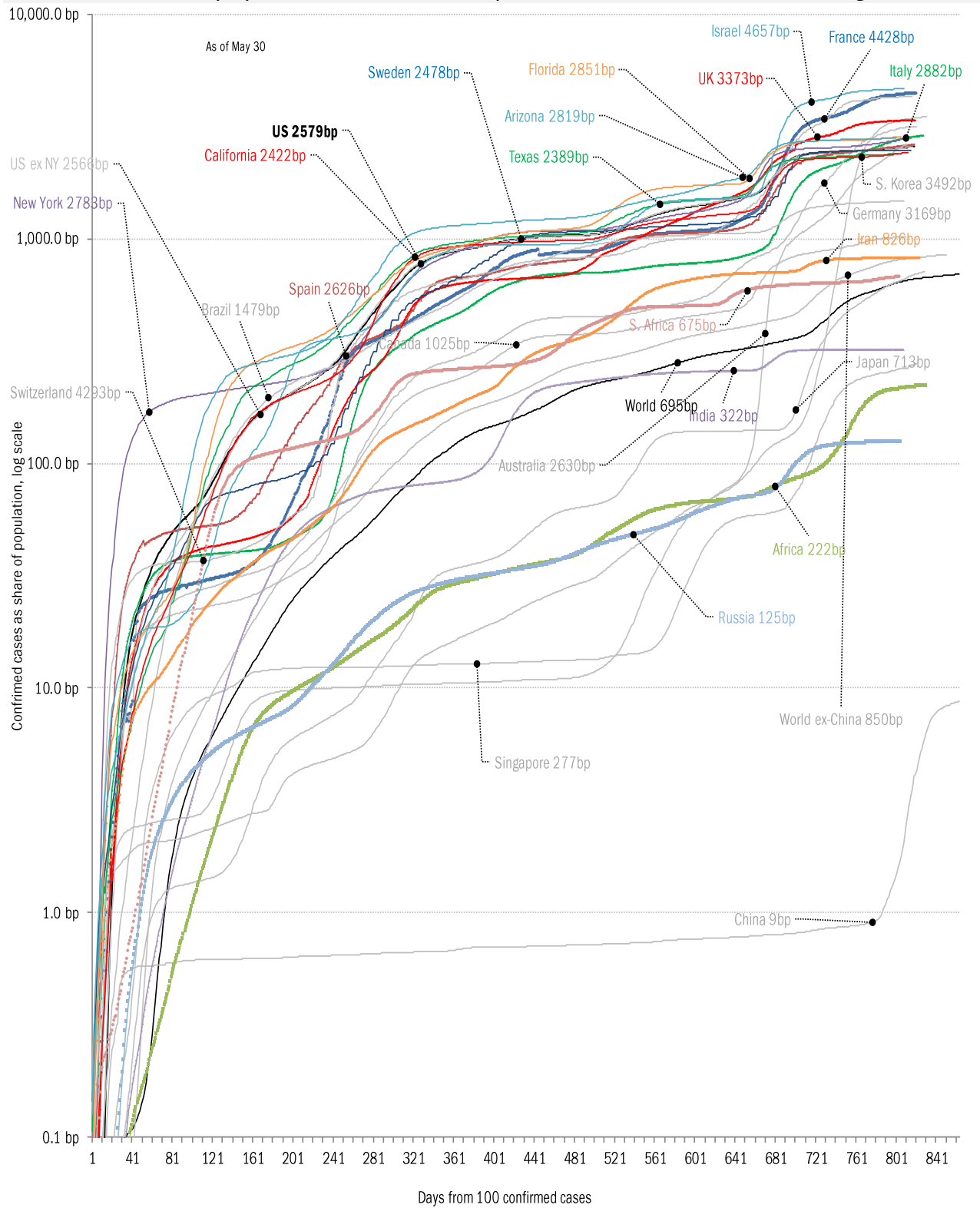
Marc Caputo  
*NBC News*  
May 26, 2022

## Meme of the day



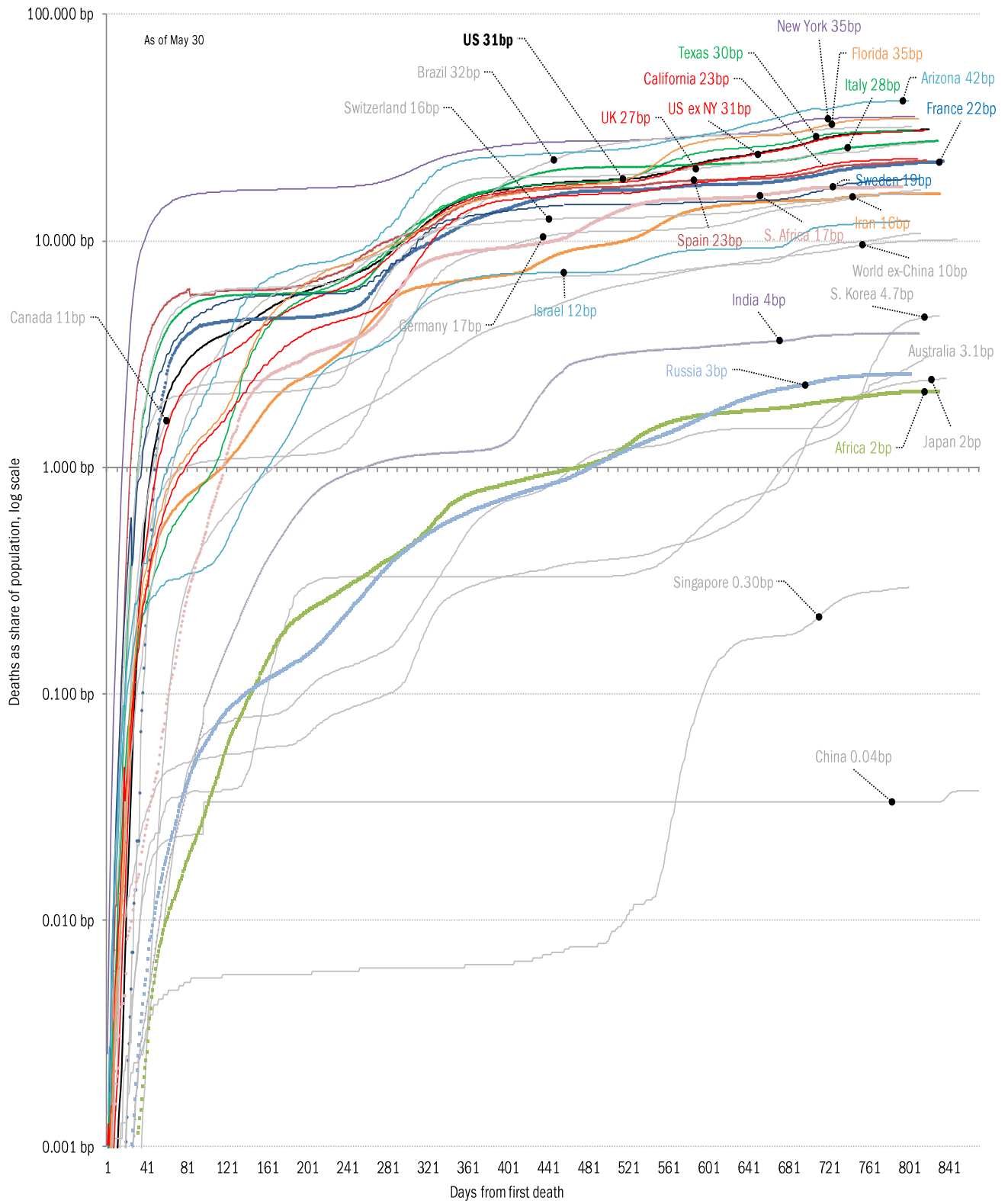
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

The global 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 global coronavirus mortality accelerometer ... tracking the world's fatality curves  
*Share of deceased population from day of first fatality, log scale*



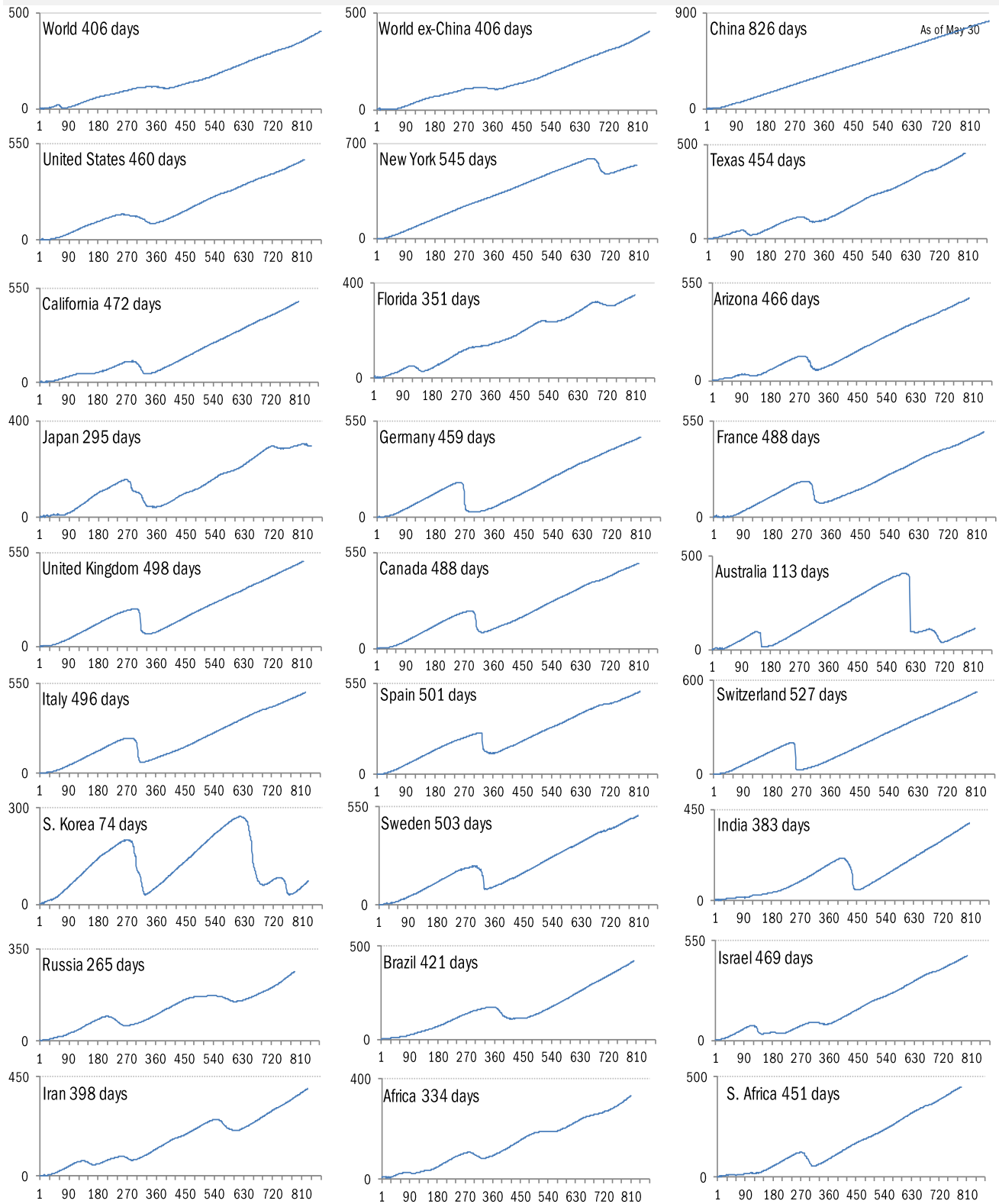
Source: [Johns Hopkins](#), TrendMacro calculations



# 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

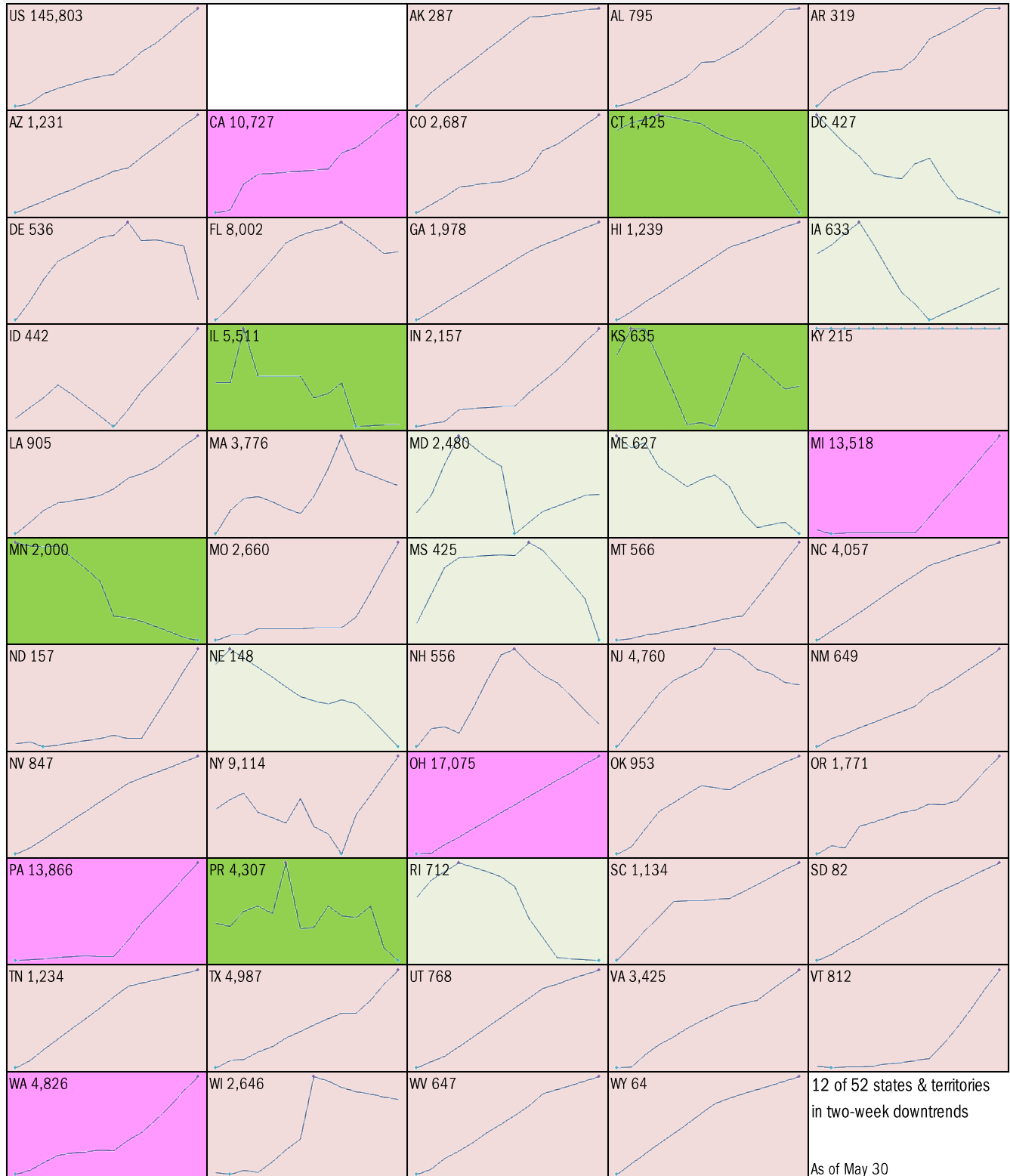


Source: [Johns Hopkins](#), TrendMacro calculations

# 14-day 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

# 14-day trajectory in **test-positivity ratio**

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

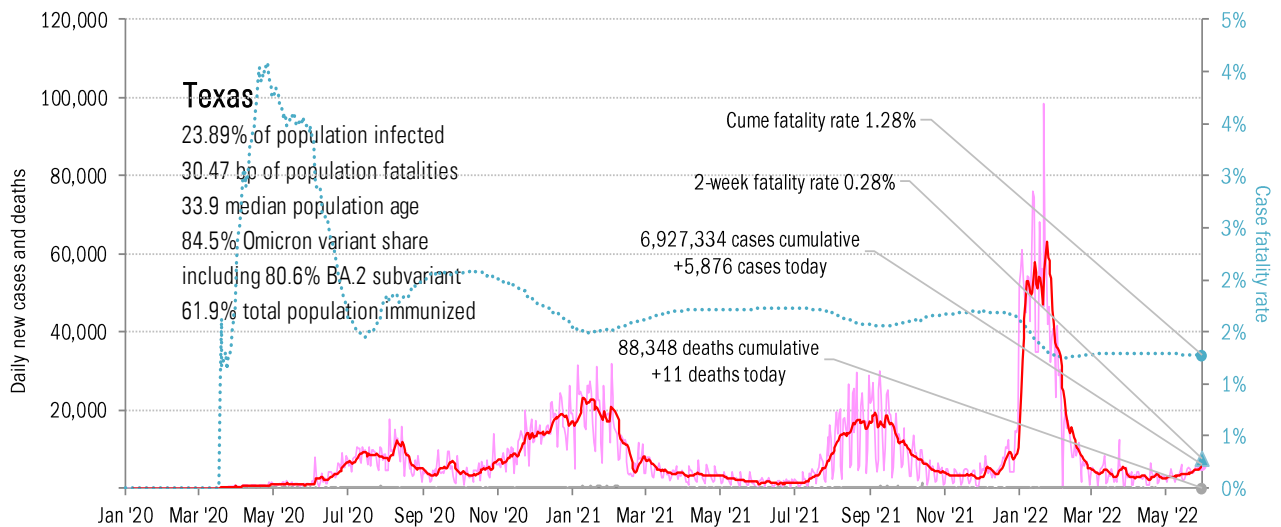
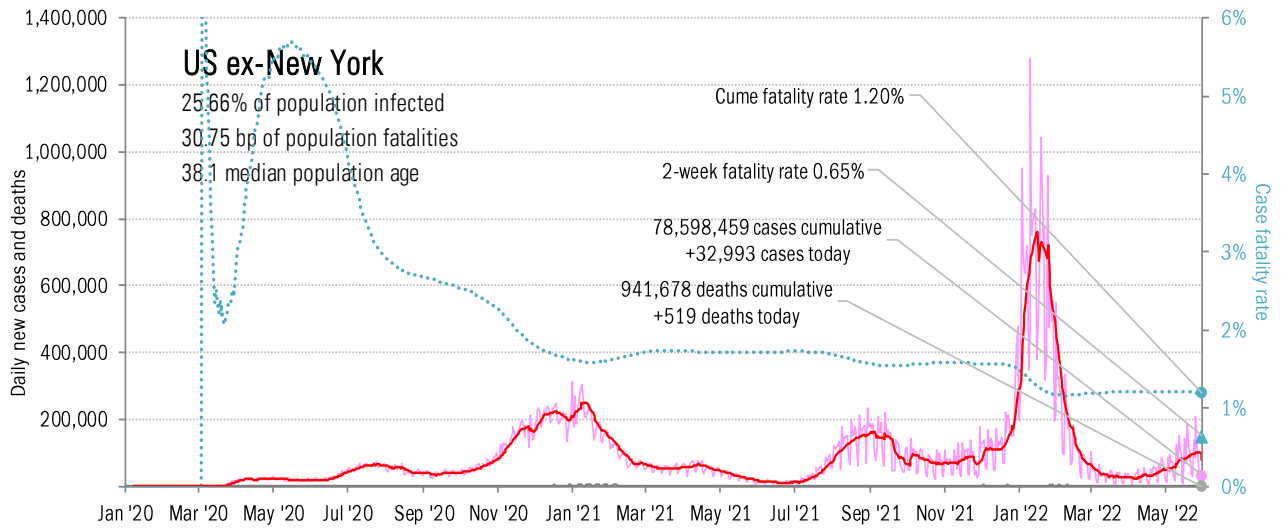
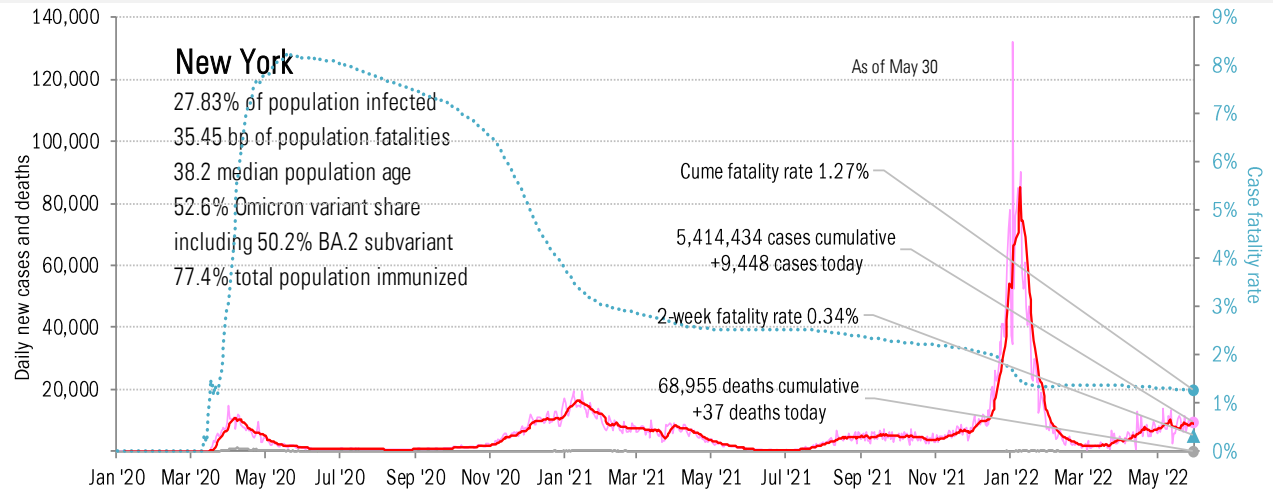
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

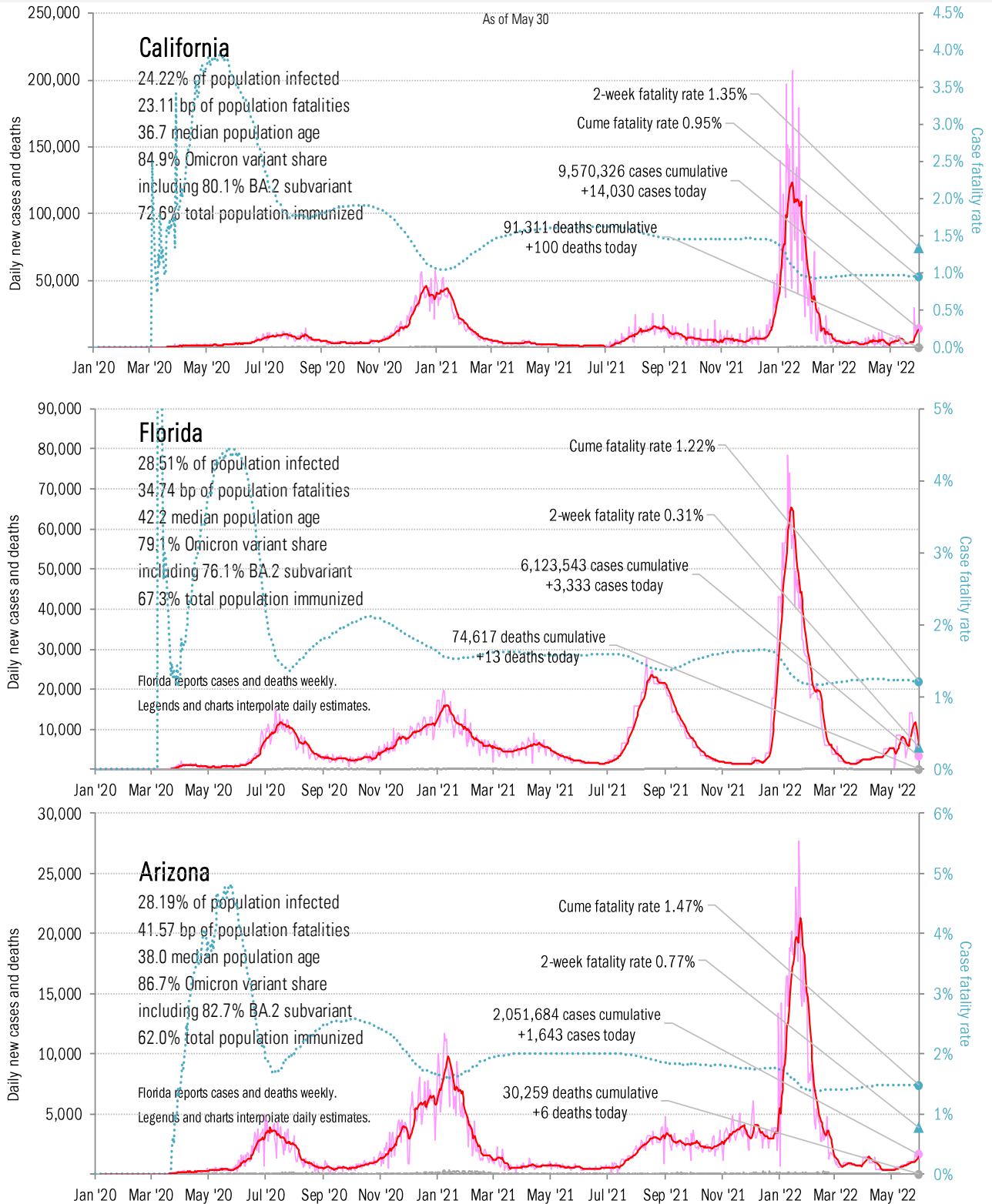
Cases: 7-day average and daily Deaths: Daily



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

# The sun-belt hot-spot states

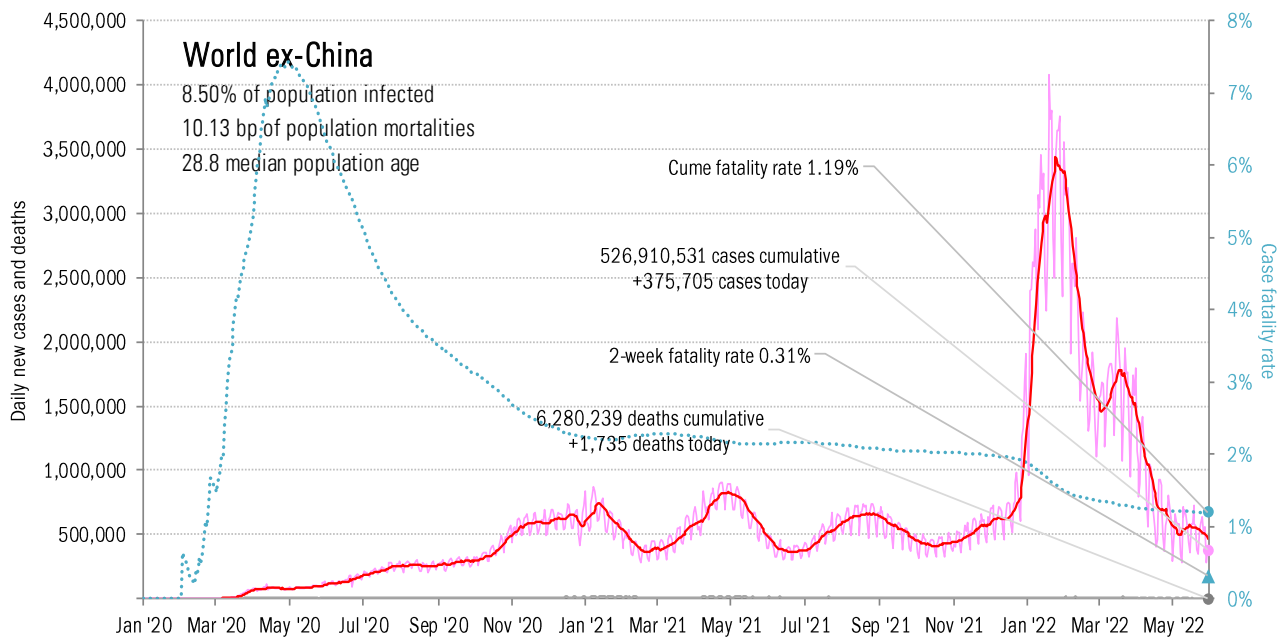
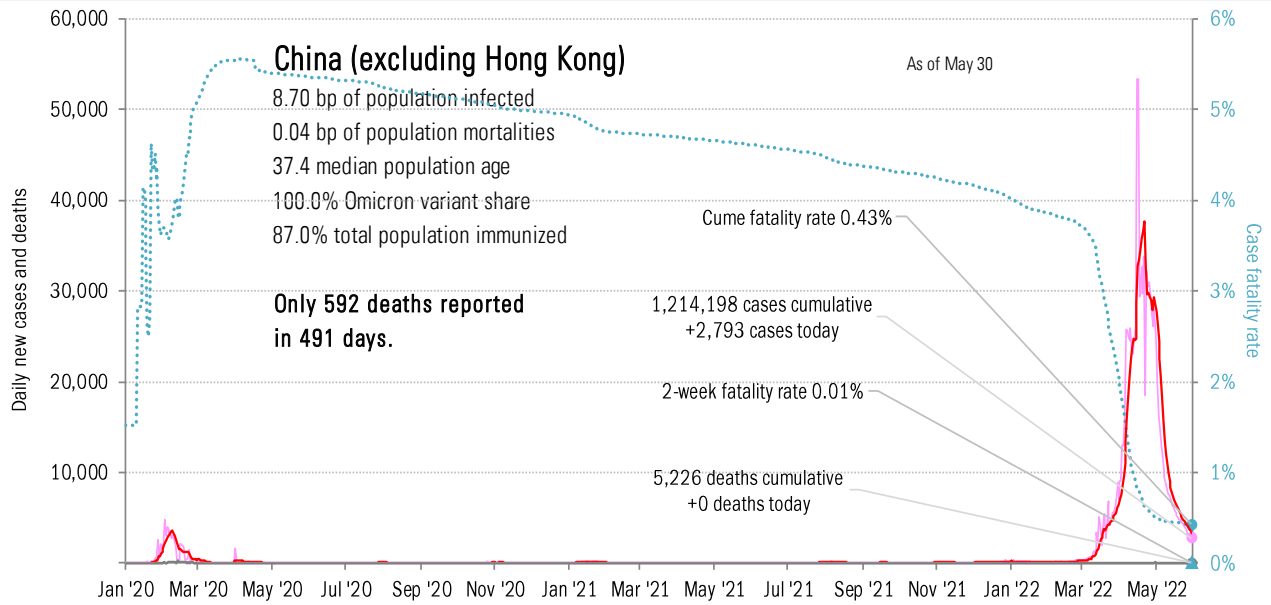
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

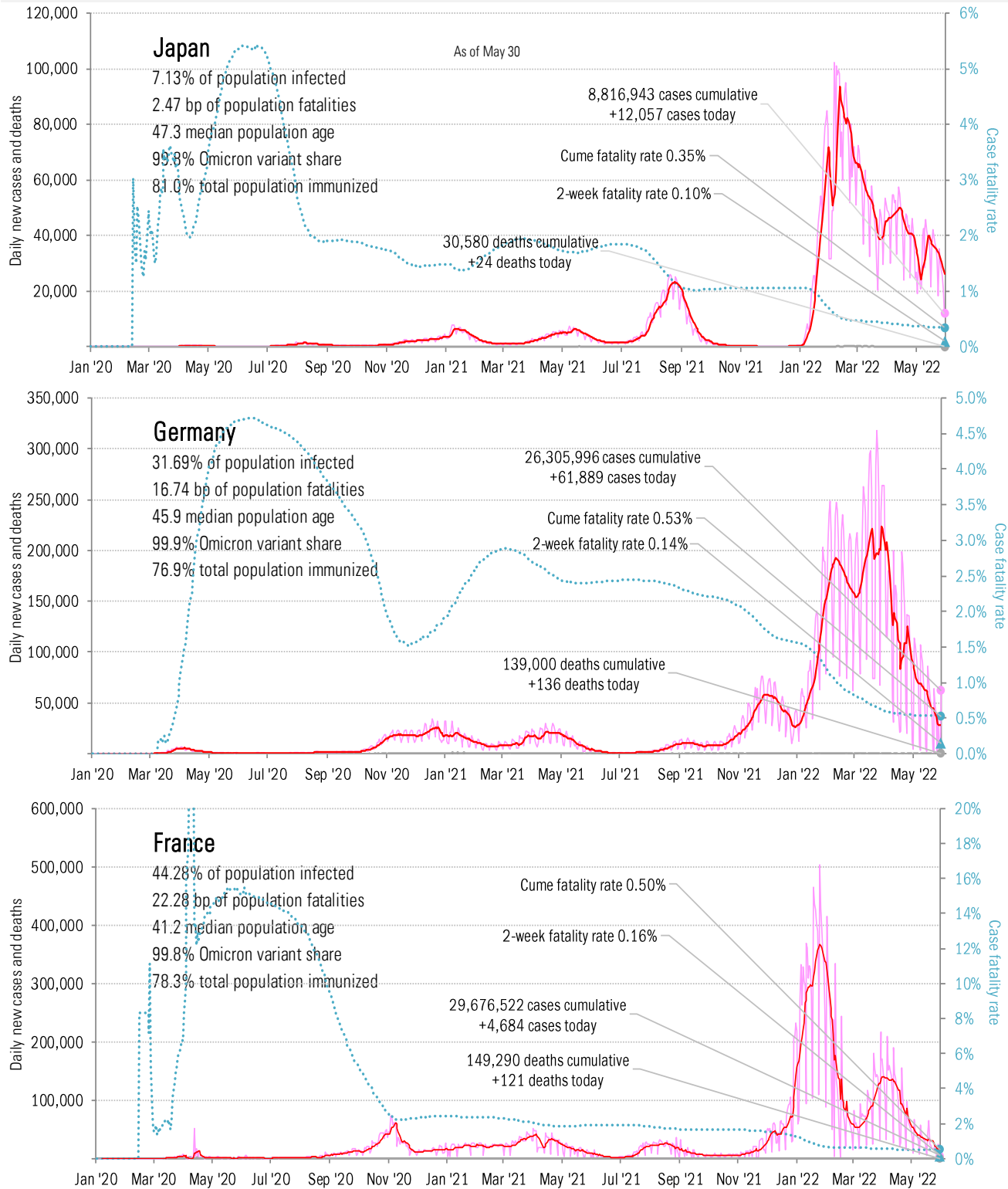
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

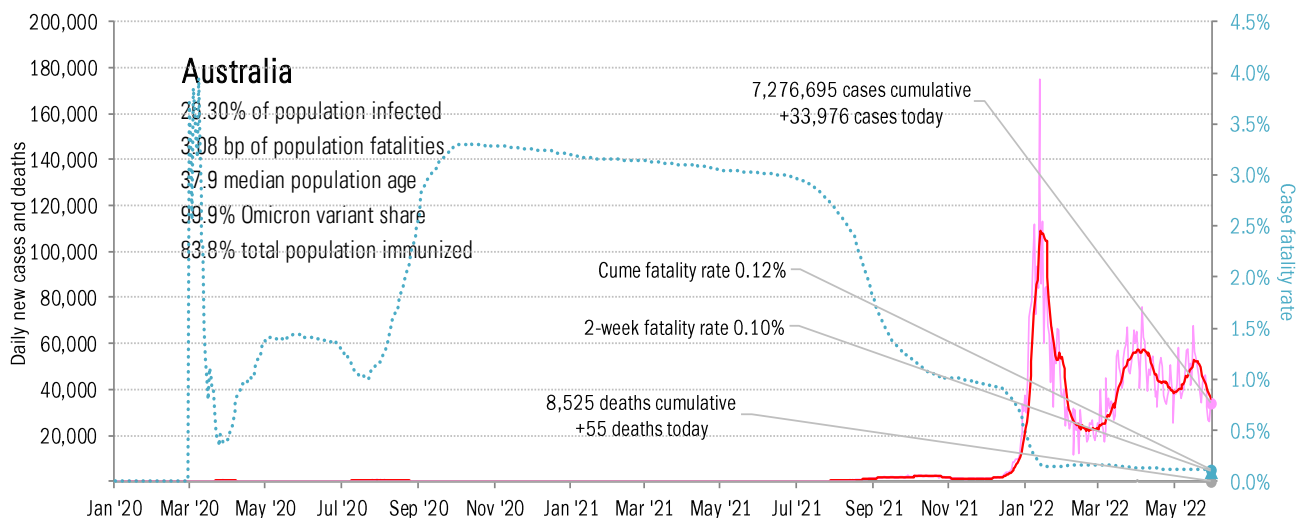
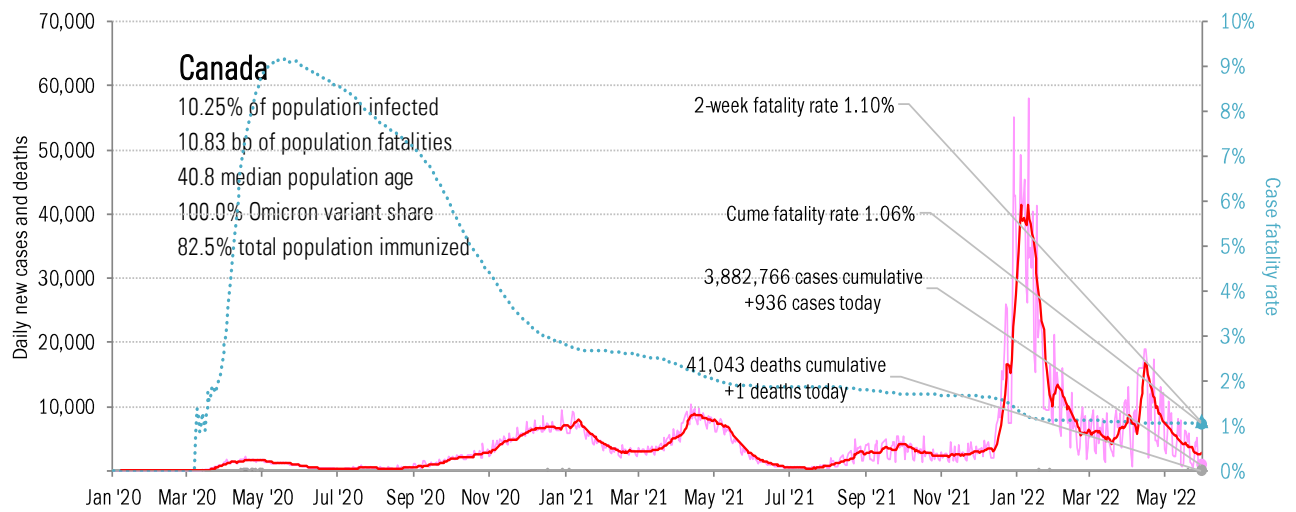
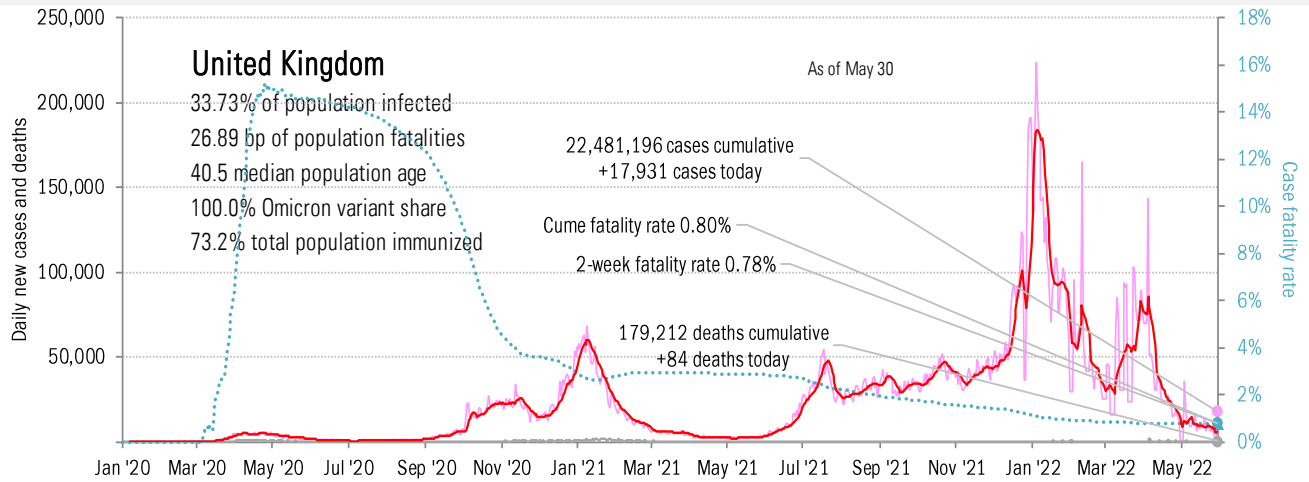
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

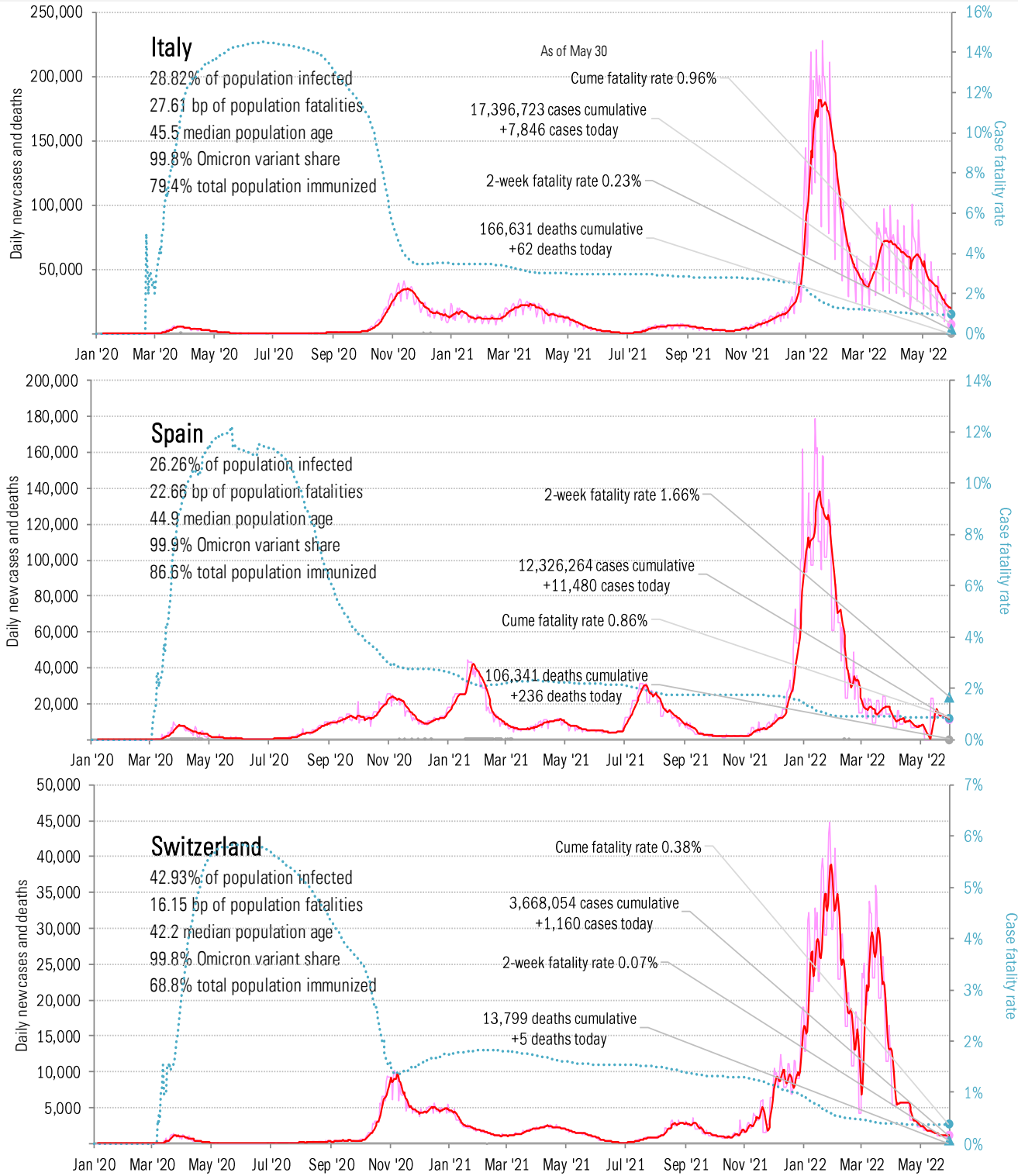


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

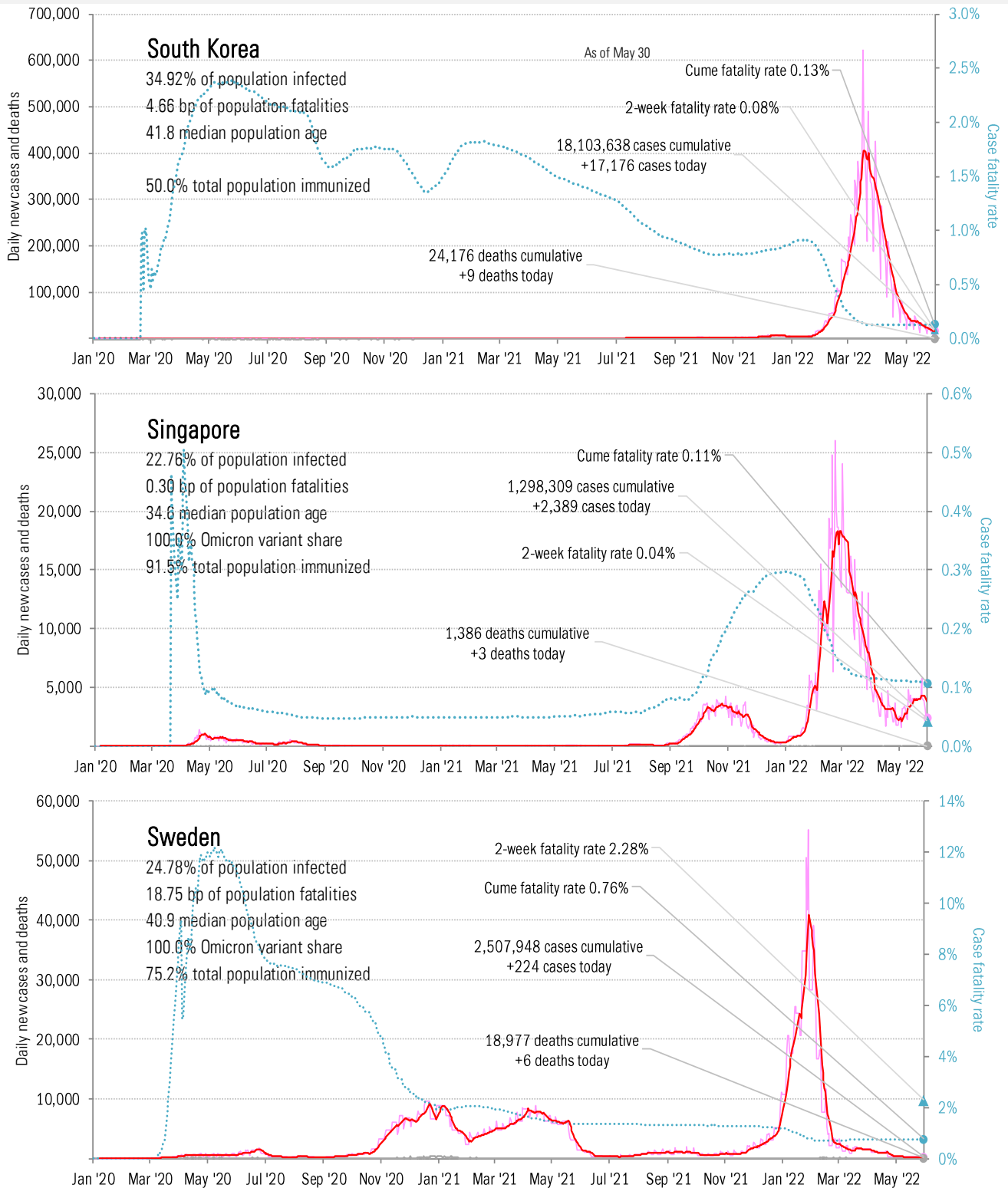
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

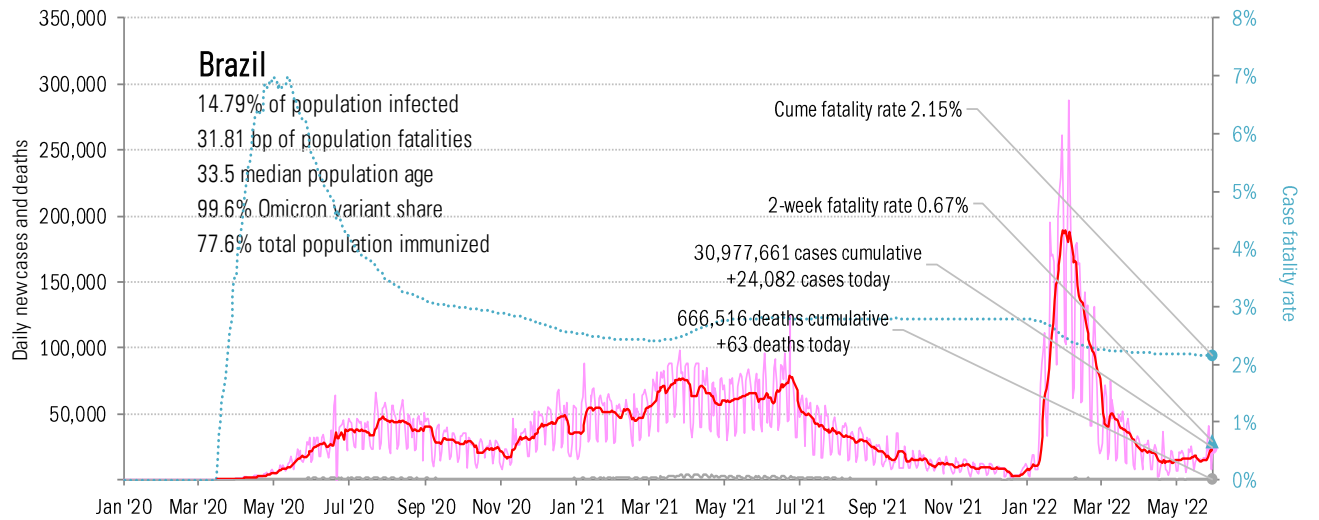
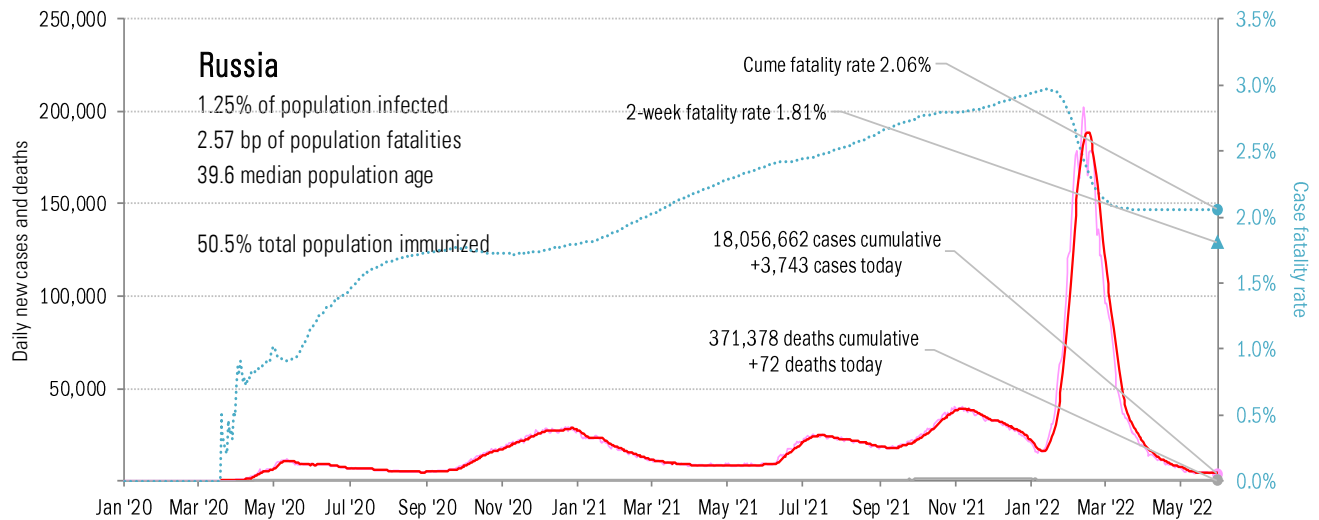
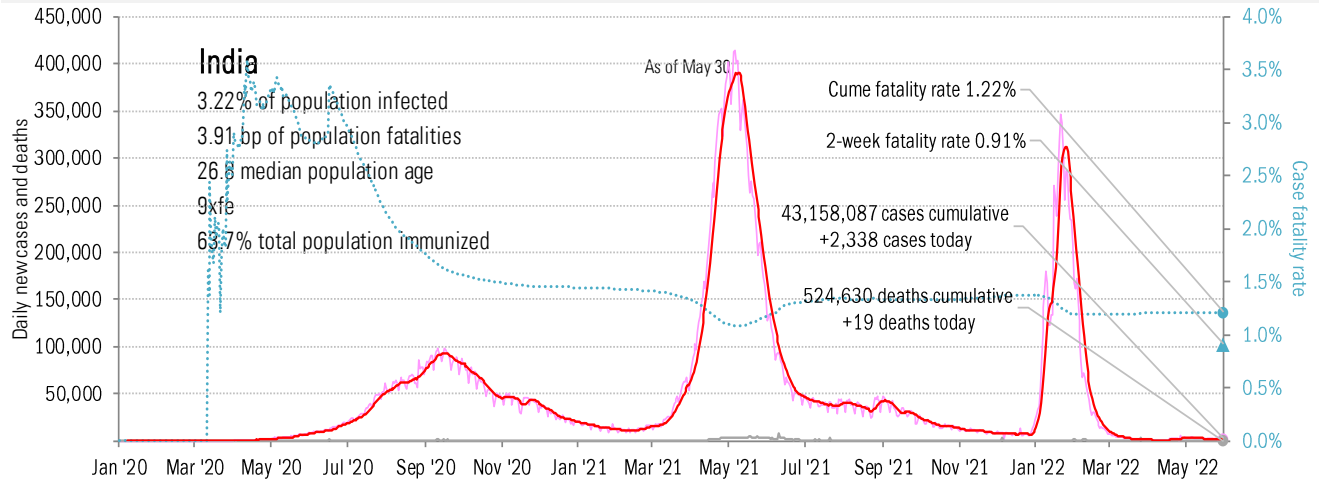
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

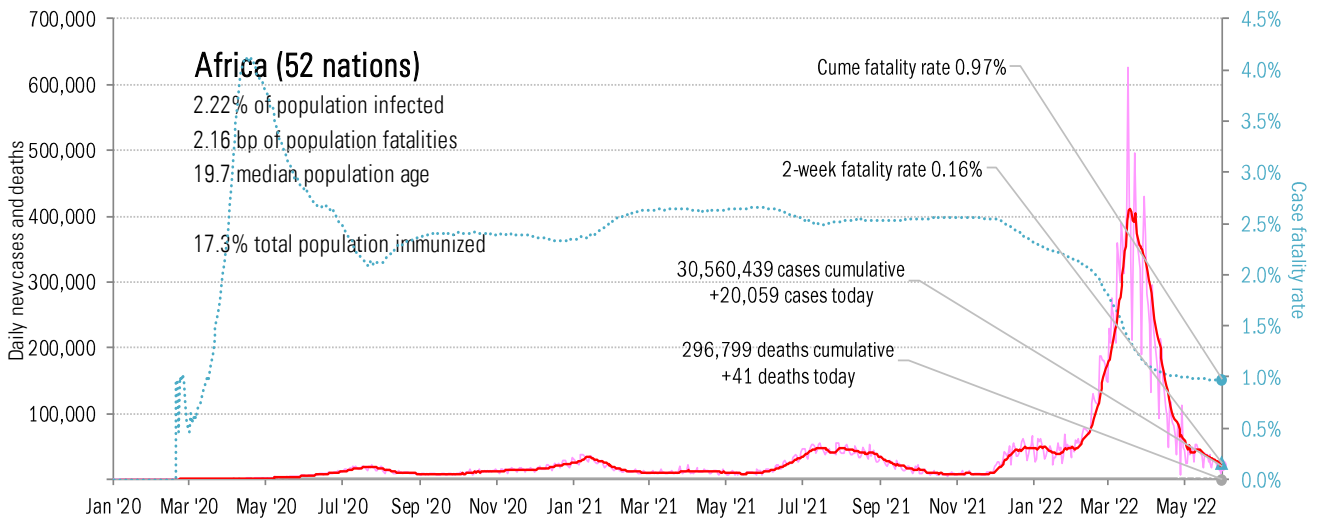
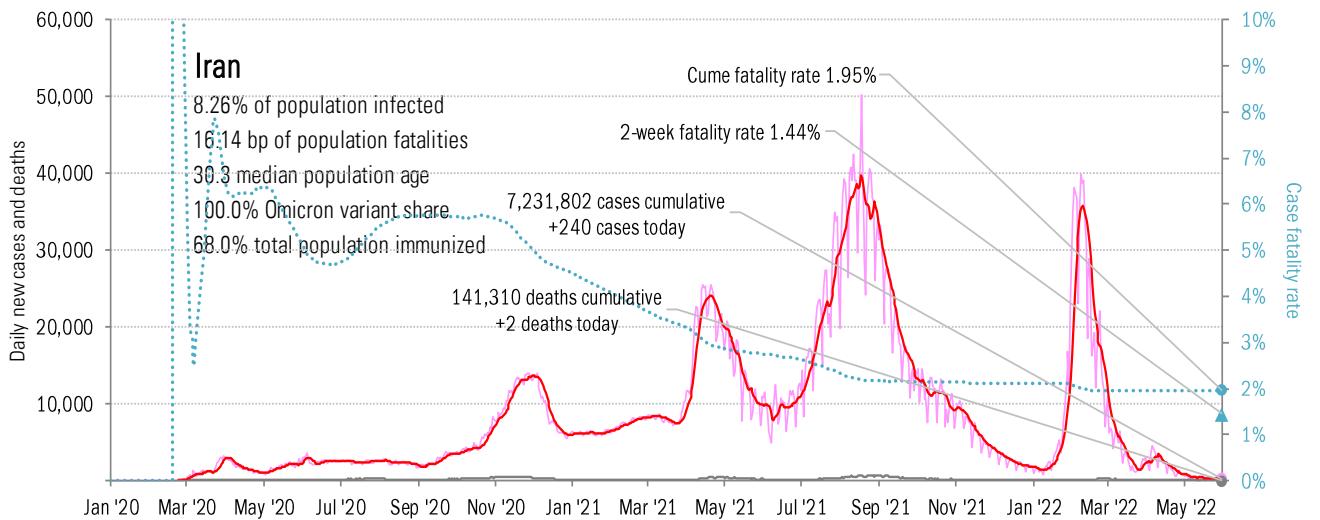
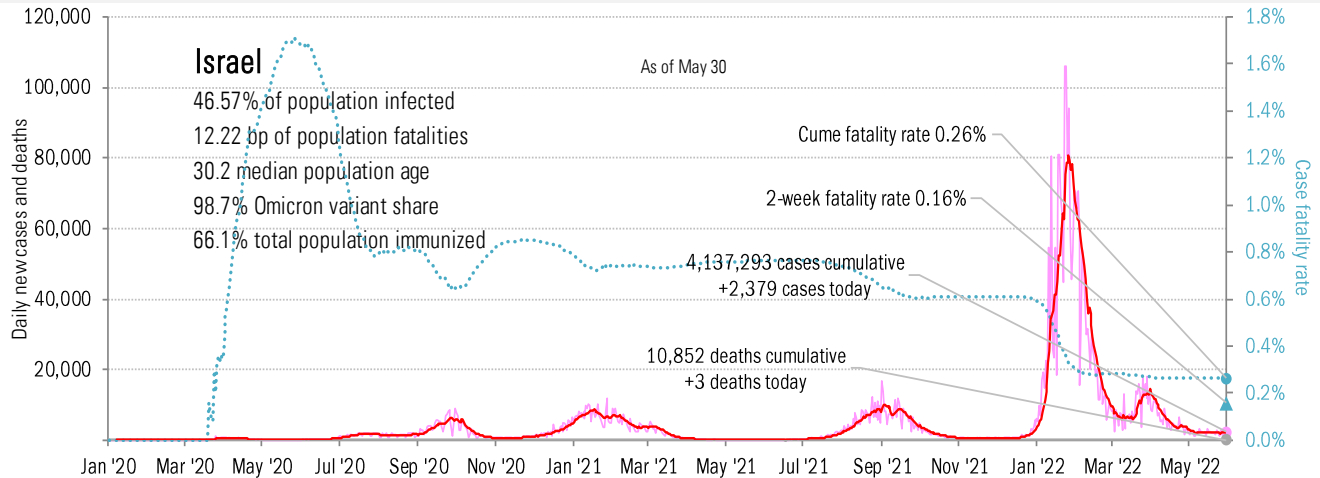
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

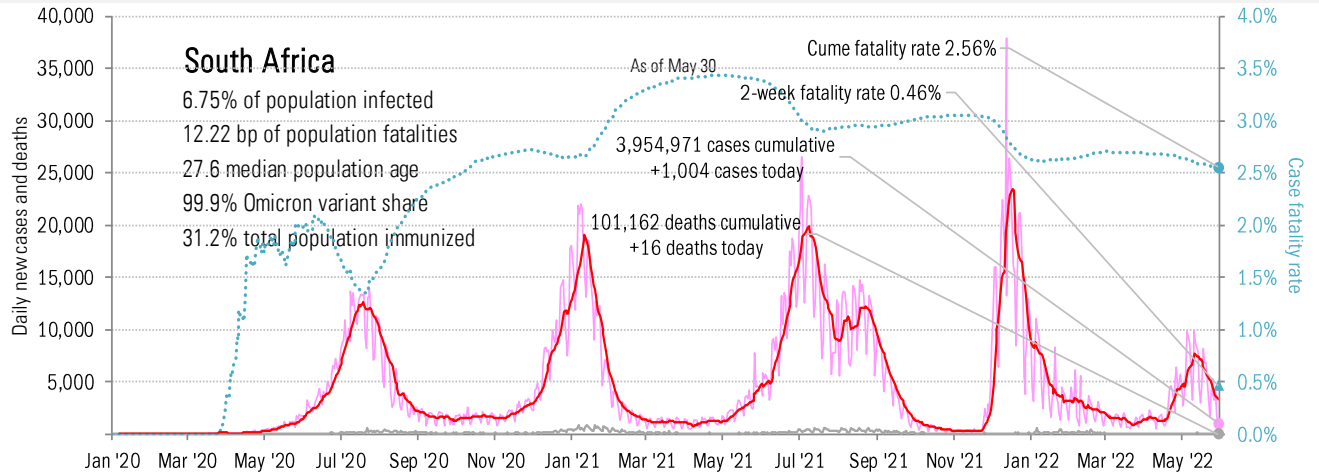
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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