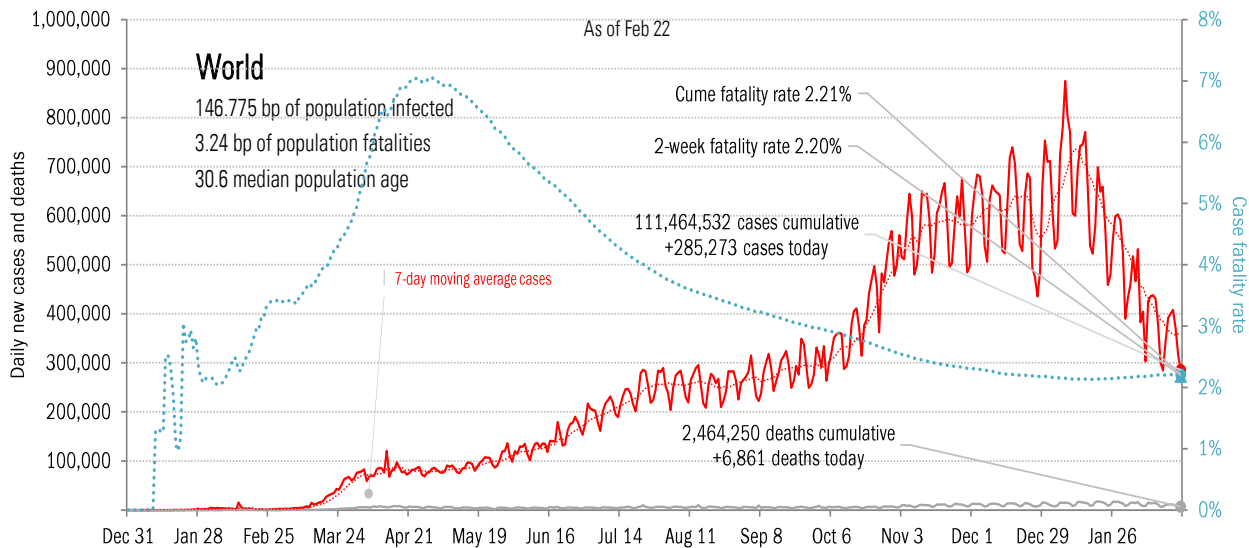
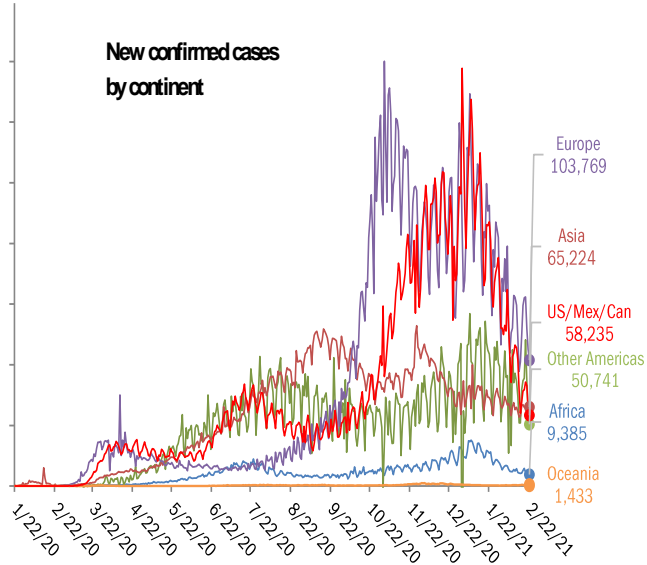


## Data Insights: Covid-2019 Monitor

Tuesday, February 23, 2021

### The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+52,530	United States	+1,235
Brazil	+26,986	Brazil	+639
Spain	+20,849	Spain	+535
Russia	+12,455	Mexico	+429
United Kingdom	+10,659	Germany	+417
India	+10,584	France	+334
Indonesia	+10,180	Russia	+329
Italy	+9,617	Italy	+274
Iran	+8,263	Indonesia	+202
Turkey	+8,104	United Kingdom	+178
<b>+170,227</b>		<b>+4,572</b>	
World	<b>+285,273</b>	World	<b>+6,861</b>
Top ten	<b>60%</b>	Top ten	<b>67%</b>



Source: [Johns Hopkins](#), [Covid Tracking Project](#), 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

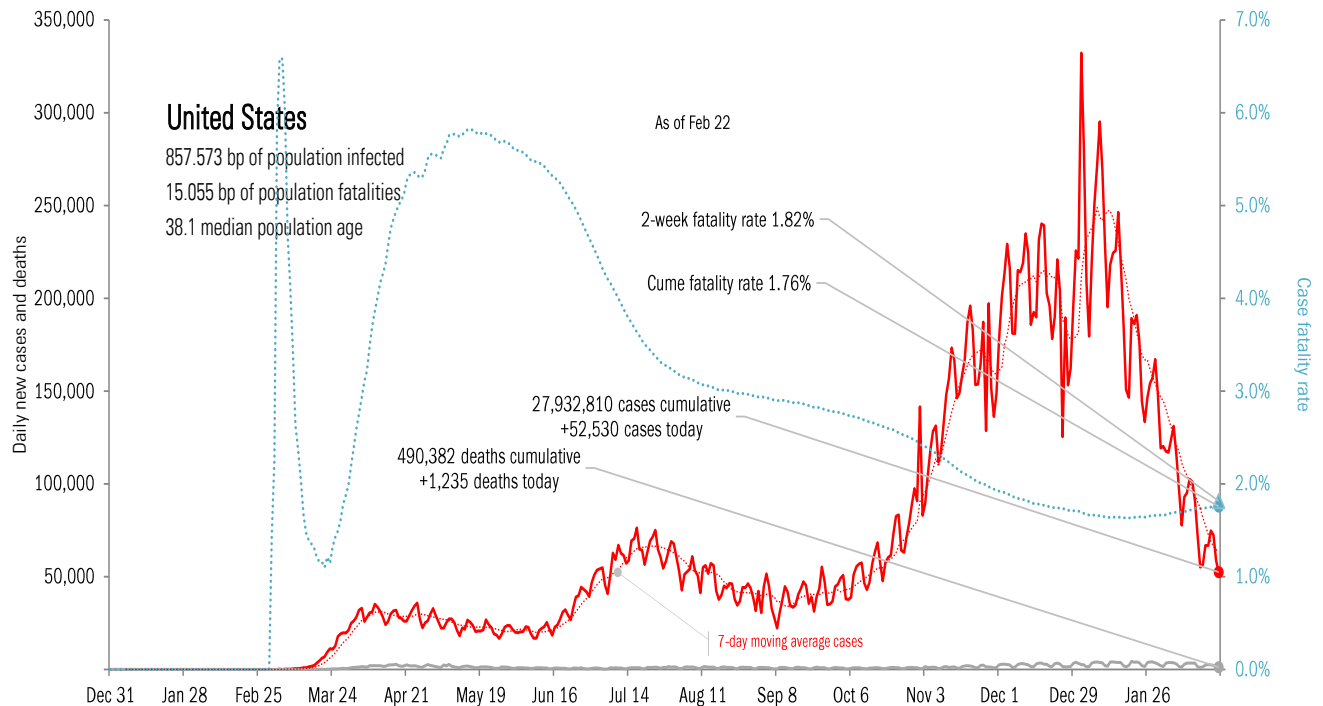
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
TX	+6,365		CA	+233		NY	+40		CA	3,446,611		CA	49,338		NY	89,995		R	98%	DC	87%
NY	+6,146		FL	+161		IL	+36		TX	2,594,466		TX	41,407		FL	79,096		AK	88%	GA	83%
CA	+4,665		VA	+155		MD	+19		FL	1,838,745		NY	37,941		NJ	63,172		CT	79%	AL	82%
FL	+4,037		GA	+91		FR	+16		NY	1,584,931		FL	30,595		AZ	56,994		MD	78%	TX	81%
NJ	+2,704		NY	+90		FL	+15		IL	1,175,655		PA	23,614		GA	54,883		MA	78%	DE	80%
CT	+2,233		TX	+64		HI	+12		GA	987,041		NJ	22,874		CH	49,492		GA	77%	MS	79%
NC	+2,133		CH	+58		AR	+11		CH	955,378		IL	22,506		AL	45,128		DC	76%	MO	78%
MI	+1,659		IL	+40		DC	+11		PA	915,018		CH	16,874		IN	42,500		SC	76%	NM	78%
CH	+1,611		CT	+39		RI	+9		NC	844,770		GA	16,835		MD	34,493		FL	76%	NC	77%
GA	+1,536		IA	+38		IN	+8		AZ	809,474		MI	16,343		WI	25,775		MO	75%	CA	77%
+33,089			+969			+177			15,152,089			278,327			541,528						
All states	+52,530			+1,235			-756		All states	27,932,810			490,382			857,448		All states	70%		69%
Top ten	63%			78%			-23%		Top ten	54%			57%			63%		Median	69%		69%

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CA	-2,095	CA	-48,872	KS	-76	NC	+30,065
SC	-1,432	TX	-41,279	NV	-59	TX	+13,747
LA	-1,421	NY	-37,761	MN	-47	PA	+3,051
VA	-1,148	FL	-30,273	CH	-40	CH	+2,347
FL	-898	PA	-23,580	CT	-35	NM	+1,886



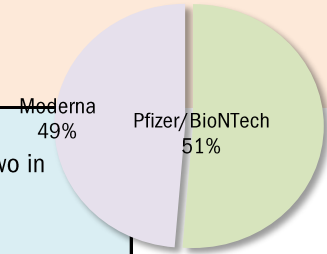
Source: [Covid Tracking Project](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US

US overall	Over last day
75.21 million doses distributed	+0.00 million/day
64.18 million doses administered	+1.09 million/day
44.14 million persons with one shot	+0.51 million/day
19.44 million persons with two shots	+0.57 million/day
6.58 million shots long-term care residents/staff	+0.06 million/day

**85.3% of distributed doses administered**

13.2% of US pop 1 shot      5.8% 2 shots  
 100% of LTC 1 shot      46.8% 2 shots



At today's dosing pace,  
 every American will have two in  
**545 days**  
 by Aug 20, 2022

US will achieve herd immunity in  
**252 days**  
 by Oct 31, 2021

State	Best	Middle	Worst
Doses distributed as % population	Best		
One shot received as % population		Middle	
Two shots received as % population			Worst

AK
41.0%
20.8%
11.2%

ME
25.0%
14.2%
5.7%

WI
22.4%
14.7%
6.2%

VT
26.2%
14.7%
7.2%

NH
24.2%
13.2%
6.0%

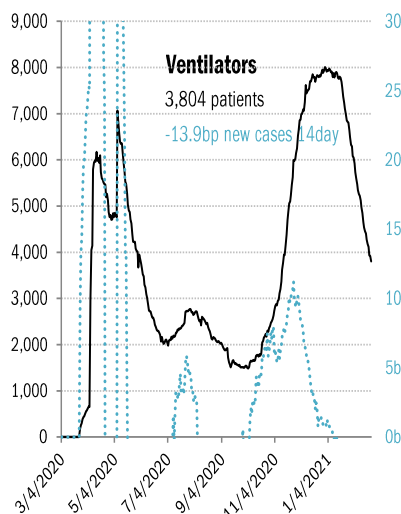
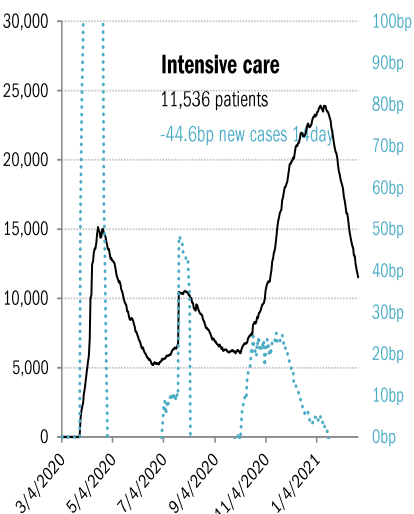
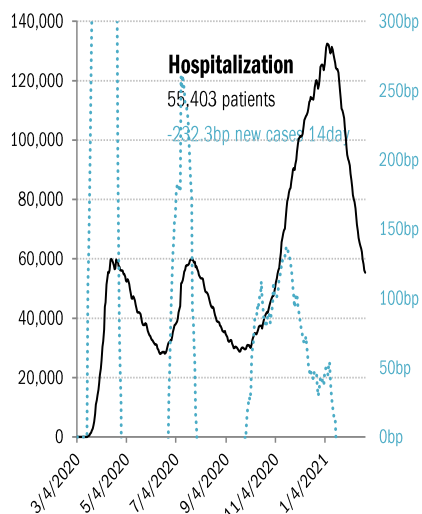
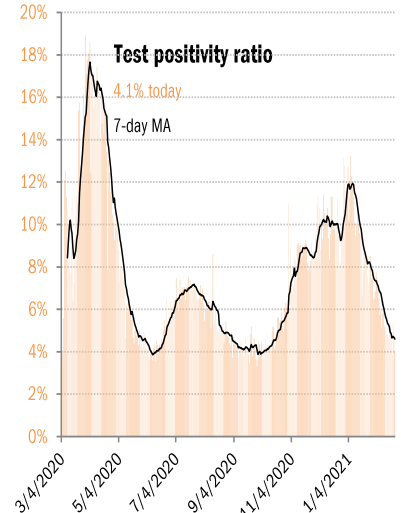
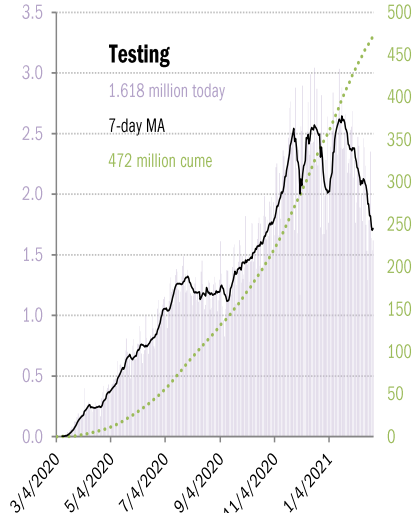
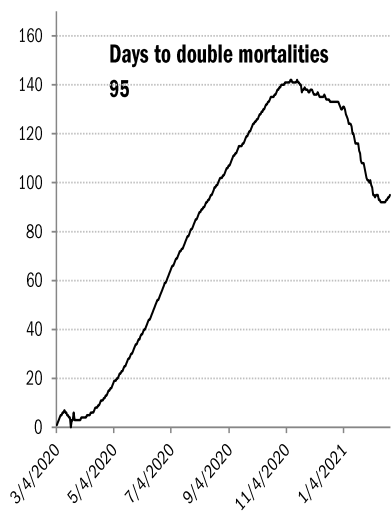
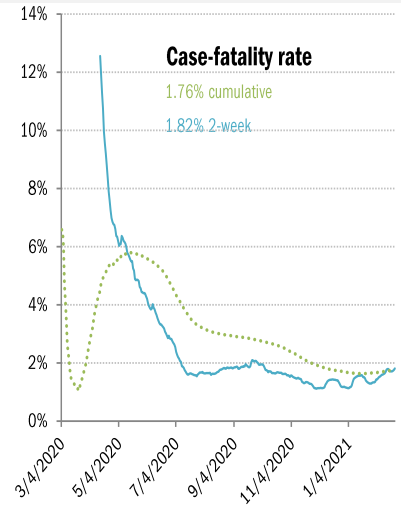
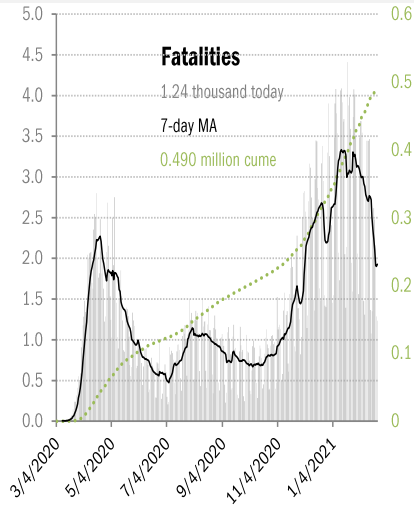
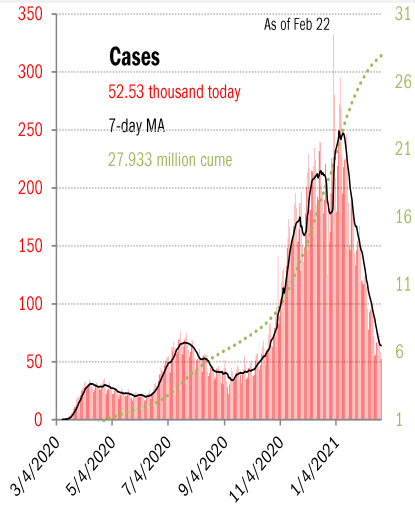
<b>WA</b> 21.3% 13.4% 5.4%	<b>ID</b> 20.0% 12.4% 5.2%	<b>MT</b> 24.3% 15.5% 6.6%	<b>ND</b> 26.1% 16.7% 8.6%	<b>MN</b> 22.8% 14.0% 6.1%	<b>IL</b> 23.1% 13.8% 4.4%	<b>MI</b> 22.8% 12.7% 6.5%	<b>NY</b> 21.4% 12.2% 6.0%	<b>MA</b> 25.2% 15.3% 5.3%		
<b>OR</b> 21.9% 13.1% 6.3%	<b>NV</b> 21.0% 13.0% 5.4%	<b>WY</b> 26.1% 15.5% 6.8%	<b>SD</b> 30.2% 17.7% 8.6%	<b>IA</b> 22.4% 14.1% 4.7%	<b>IN</b> 22.1% 13.0% 5.8%	<b>OH</b> 21.5% 12.7% 5.6%	<b>PA</b> 23.4% 13.0% 4.9%	<b>NJ</b> 21.6% 13.2% 5.7%	<b>CT</b> 27.6% 16.3% 7.6%	<b>RI</b> 23.2% 12.9% 5.8%
<b>CA</b> 23.2% 13.7% 5.0%	<b>UT</b> 20.5% 11.1% 4.6%	<b>CO</b> 23.4% 14.2% 6.6%	<b>NE</b> 25.0% 13.0% 6.1%	<b>MO</b> 20.8% 12.0% 5.5%	<b>KY</b> 22.5% 12.7% 5.7%	<b>WV</b> 26.9% 16.2% 9.7%	<b>VA</b> 22.8% 13.7% 5.9%	<b>MD</b> 24.0% 12.3% 5.7%	<b>DE</b> 21.0% 13.7% 4.8%	
<b>AZ</b> 23.2% 14.9% 5.2%	<b>NM</b> 28.9% 18.8% 9.3%	<b>KS</b> 22.2% 12.3% 5.1%	<b>AR</b> 22.9% 12.2% 5.2%	<b>TN</b> 21.6% 11.1% 5.2%	<b>NC</b> 22.5% 13.1% 6.6%	<b>SC</b> 20.7% 12.4% 4.9%	<b>DC</b> 31.9% 15.5% 7.5%			
<b>OK</b> 26.8% 14.8% 6.9%	<b>LA</b> 22.4% 12.7% 6.5%	<b>MS</b> 21.9% 11.8% 4.7%	<b>AL</b> 22.1% 11.6% 4.5%	<b>GA</b> 21.6% 11.3% 5.7%						
<b>HI</b> 28.1% 15.5% 7.3%	<b>TX</b> 19.5% 11.3% 4.8%	<b>FL</b> 23.8% 13.4% 6.9%	<b>PR</b> 25.3% 10.0% 4.8%							

As of Feb 22

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

# US deep-dive

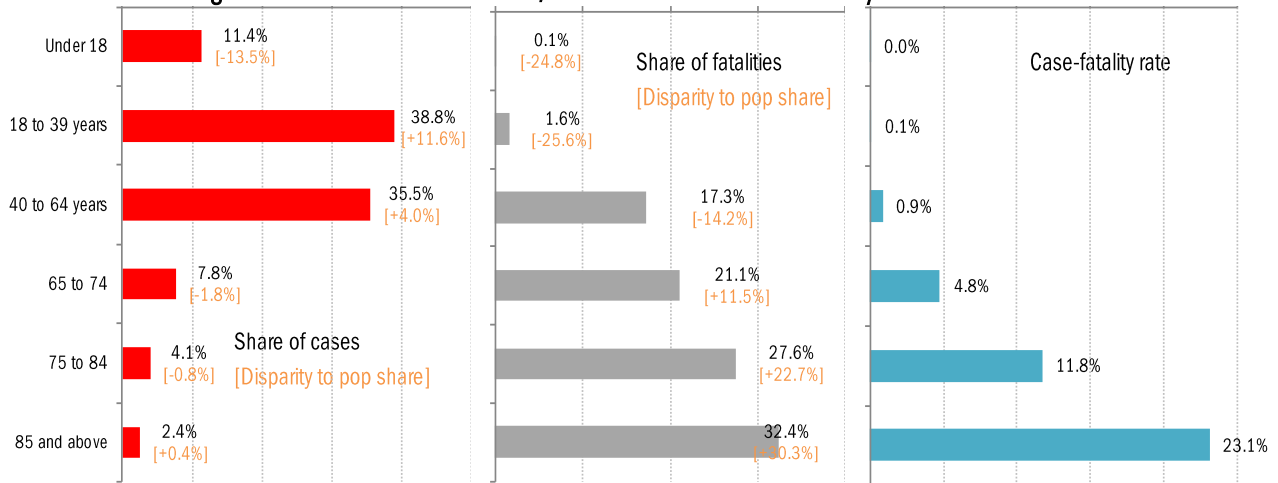
National and state-by-state data do not line up because of different sources



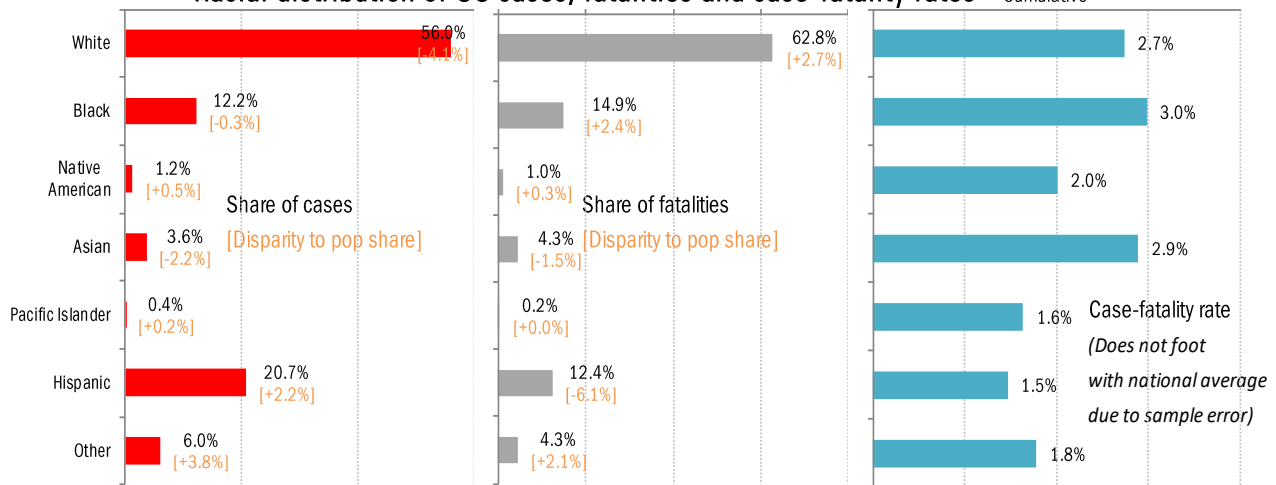
Source: [Covid Tracking Project](https://covidtracking.com), TrendMacro calculations

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

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

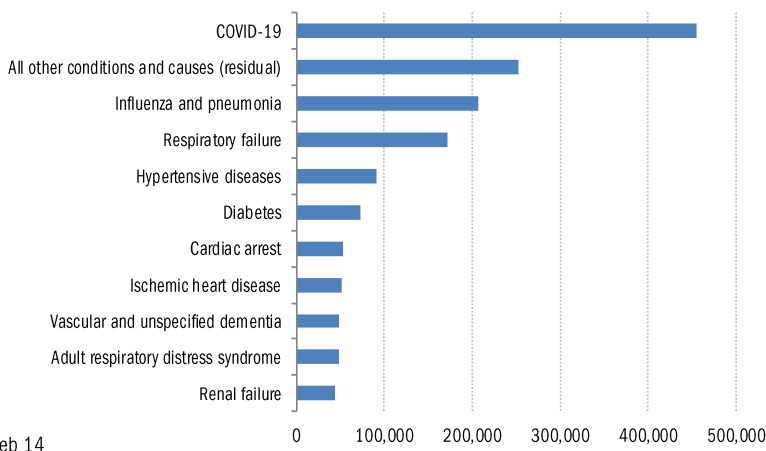


## Racial distribution of US cases, fatalities and case-fatality rates



## Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Feb 14

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

[Covid Vaccines for Kids Are Coming, but Not for Many Months](#)

Apoorva Mandavilli  
*New York Times*  
February 12, 2021

[Fauci warned of 'unintended consequences' of 'draconian' quarantines during 2014 Ebola outbreak](#)

Michael Ruiz  
*Fox News*  
February 20, 2021

[Reinfection Rates among Patients who Previously Tested Positive for COVID-19: a Retrospective Cohort Study](#)

Megan M. Sheehan et al.  
*medRxiv*  
February 16, 2021

## Meme of day

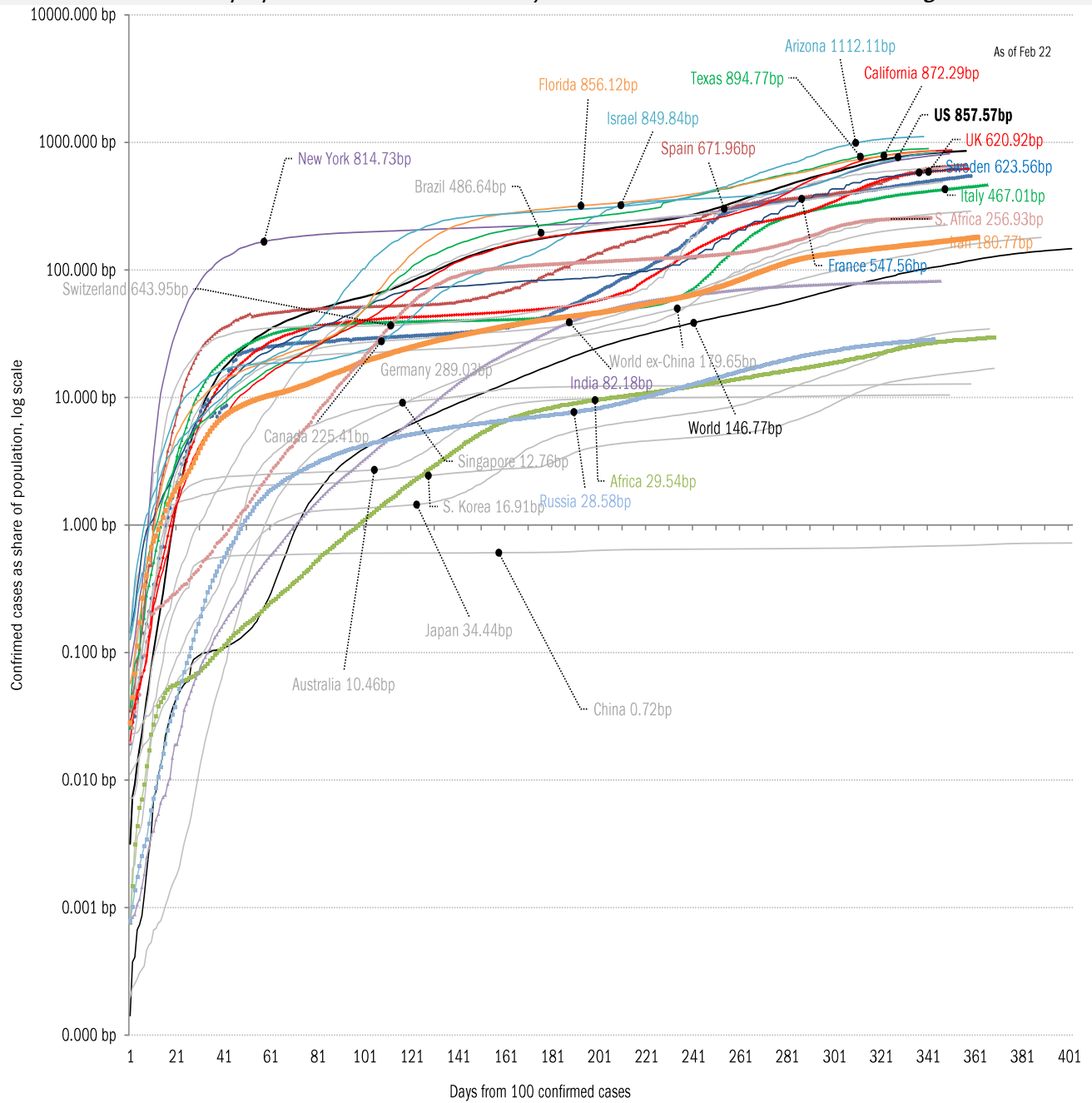


## Dr. Fauci Takes Group Of Schoolchildren Hostage, Demands Stimulus Bill As Ransom

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



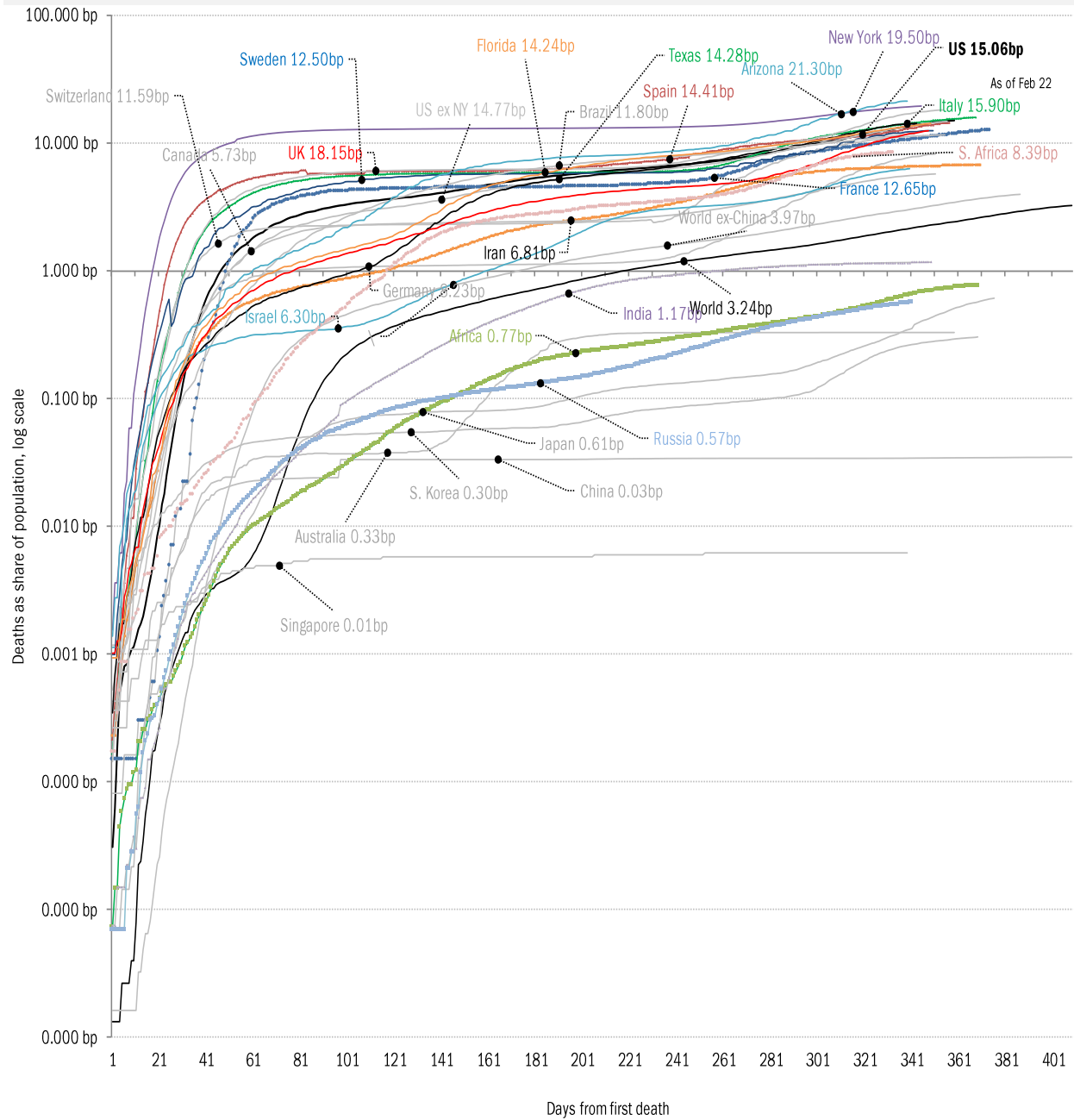
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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

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

## Share of deceased population from day of first fatality



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



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

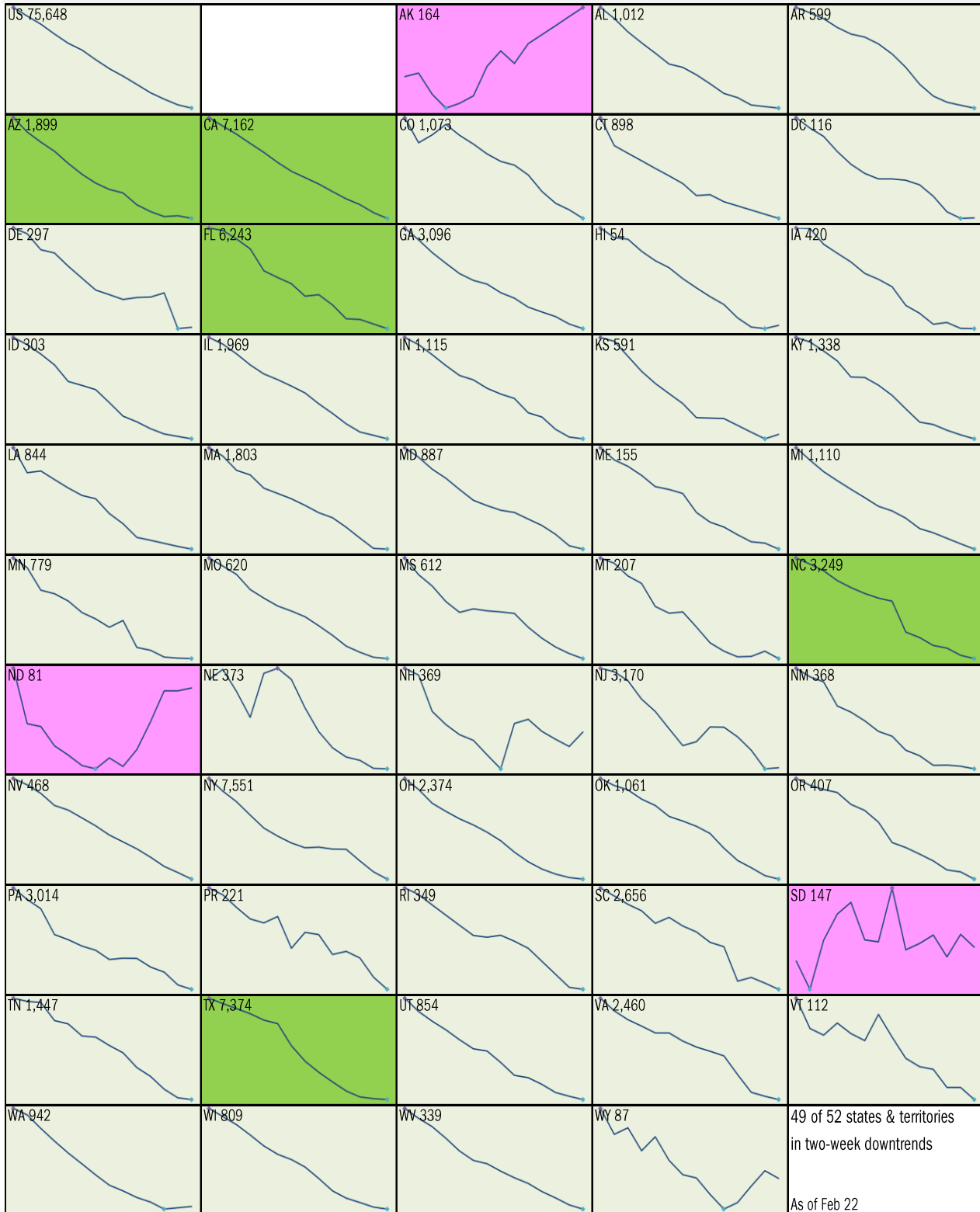
Vertical: days to double deaths Horizontal: days from first death

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



Source: [Johns Hopkins](#), [Covid Tracking Project](#), 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

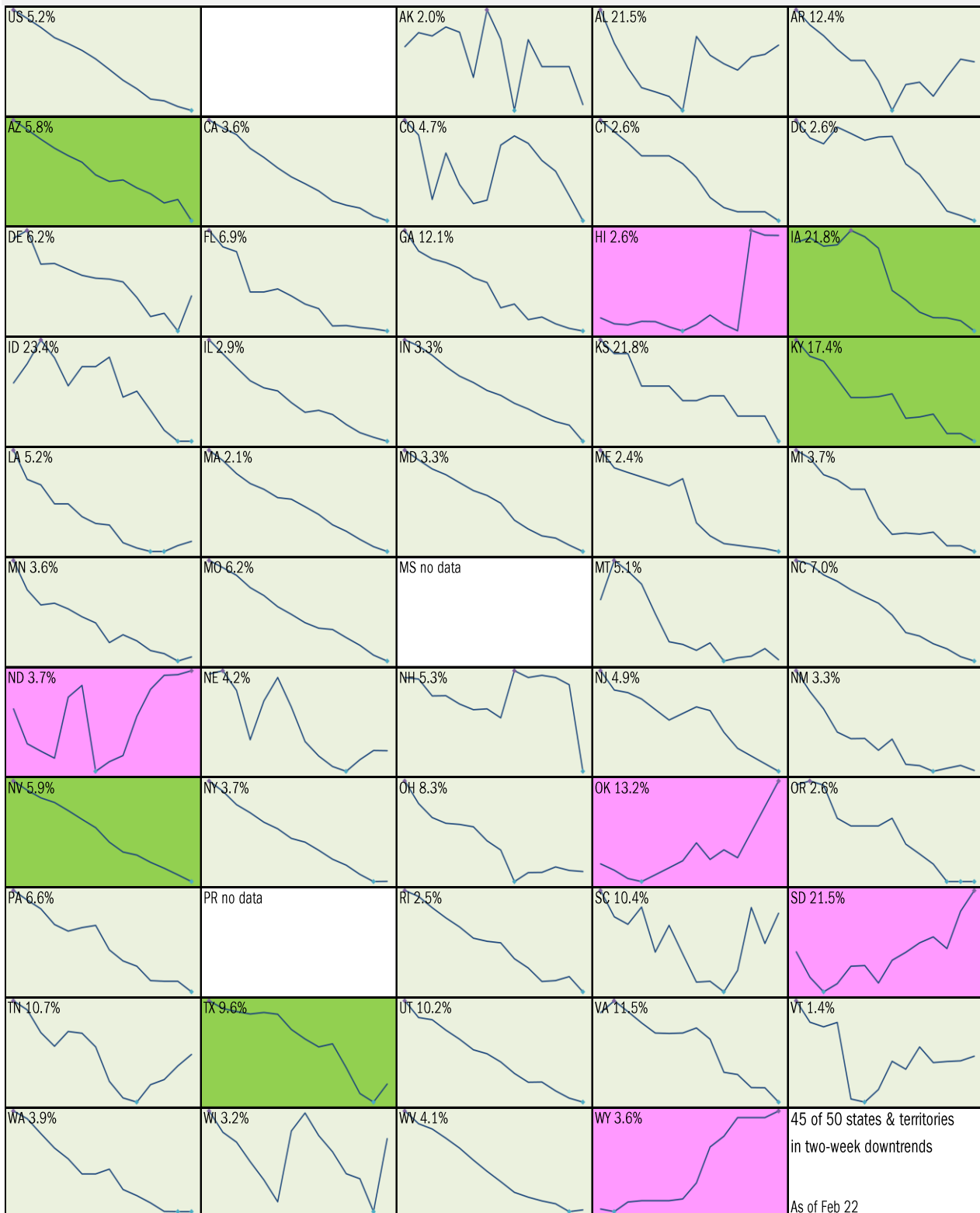


Source: [Covid Tracking Project](#), TrendMacro calculations

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

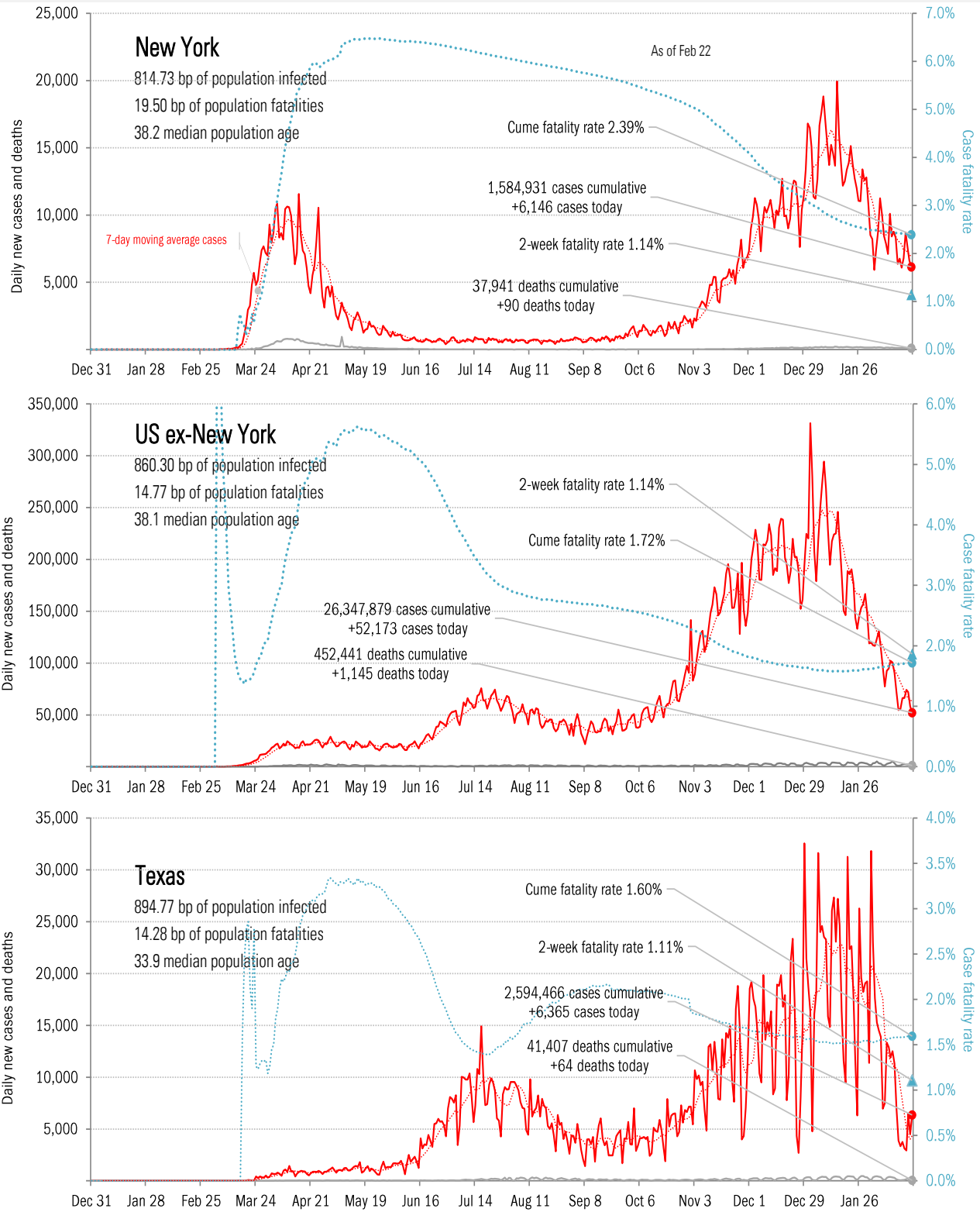
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



As of Feb 22

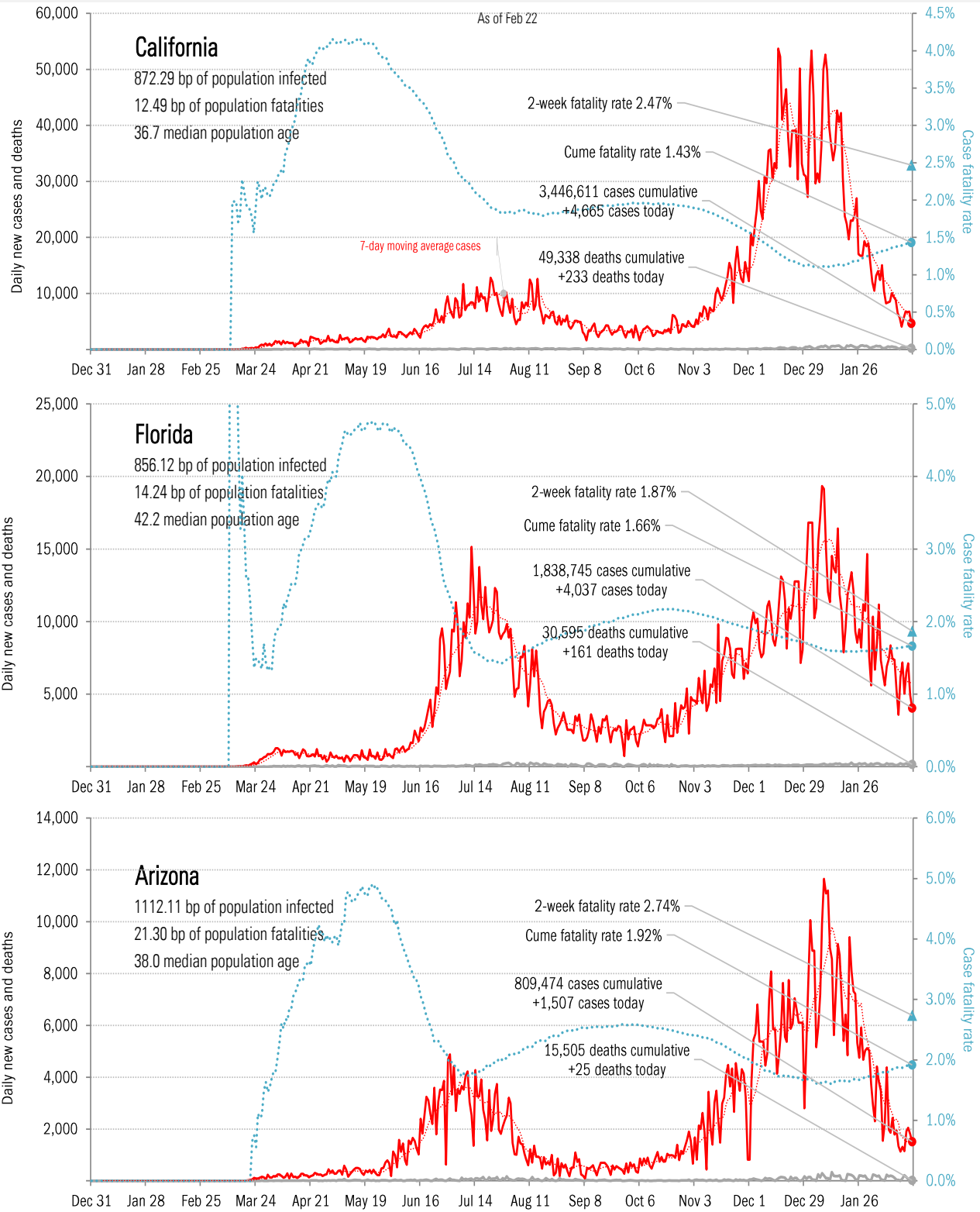
Source: [Covid Tracking Project](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



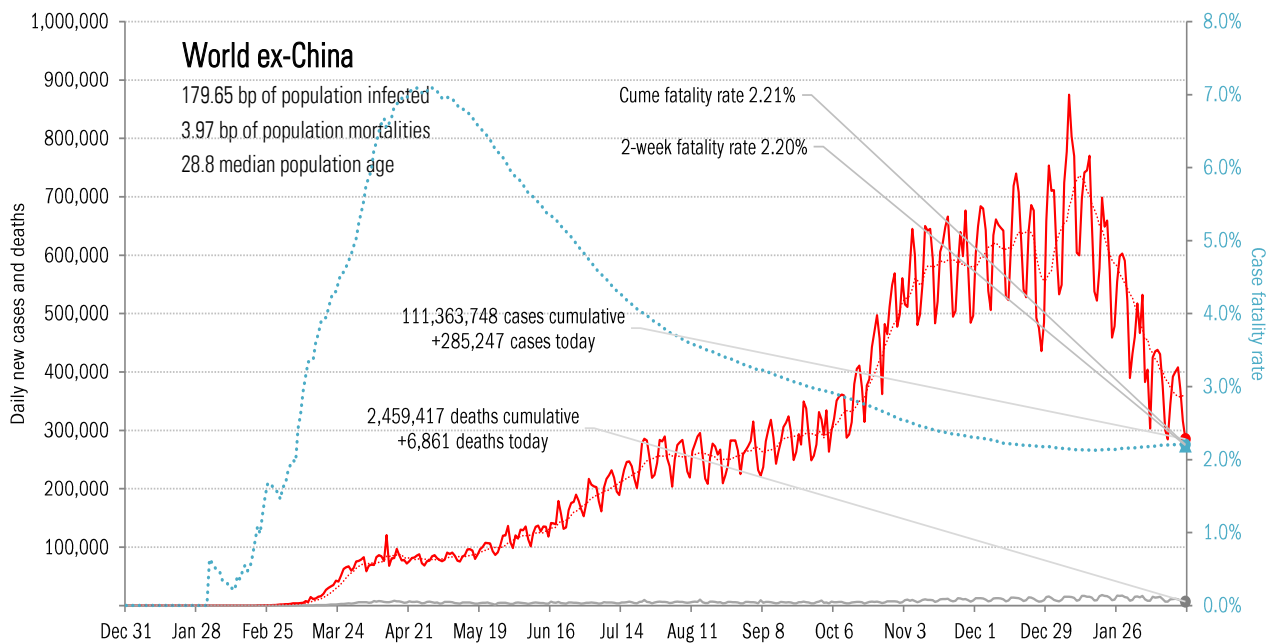
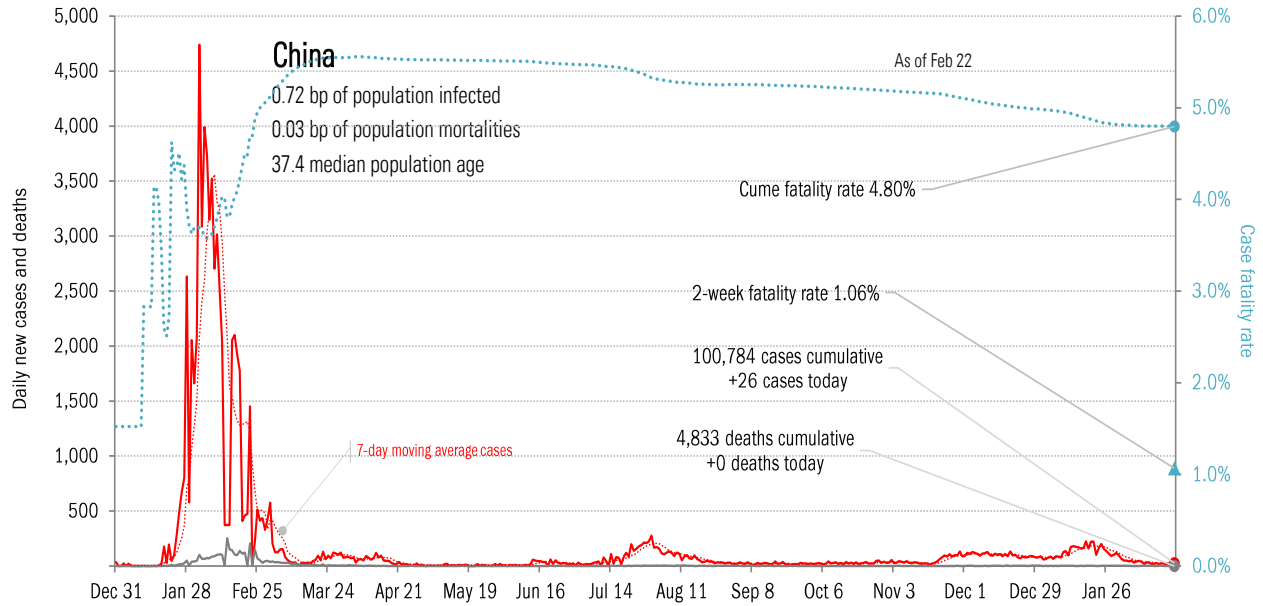
Source: [Covid Tracking Project](#), TrendMacro calculations

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



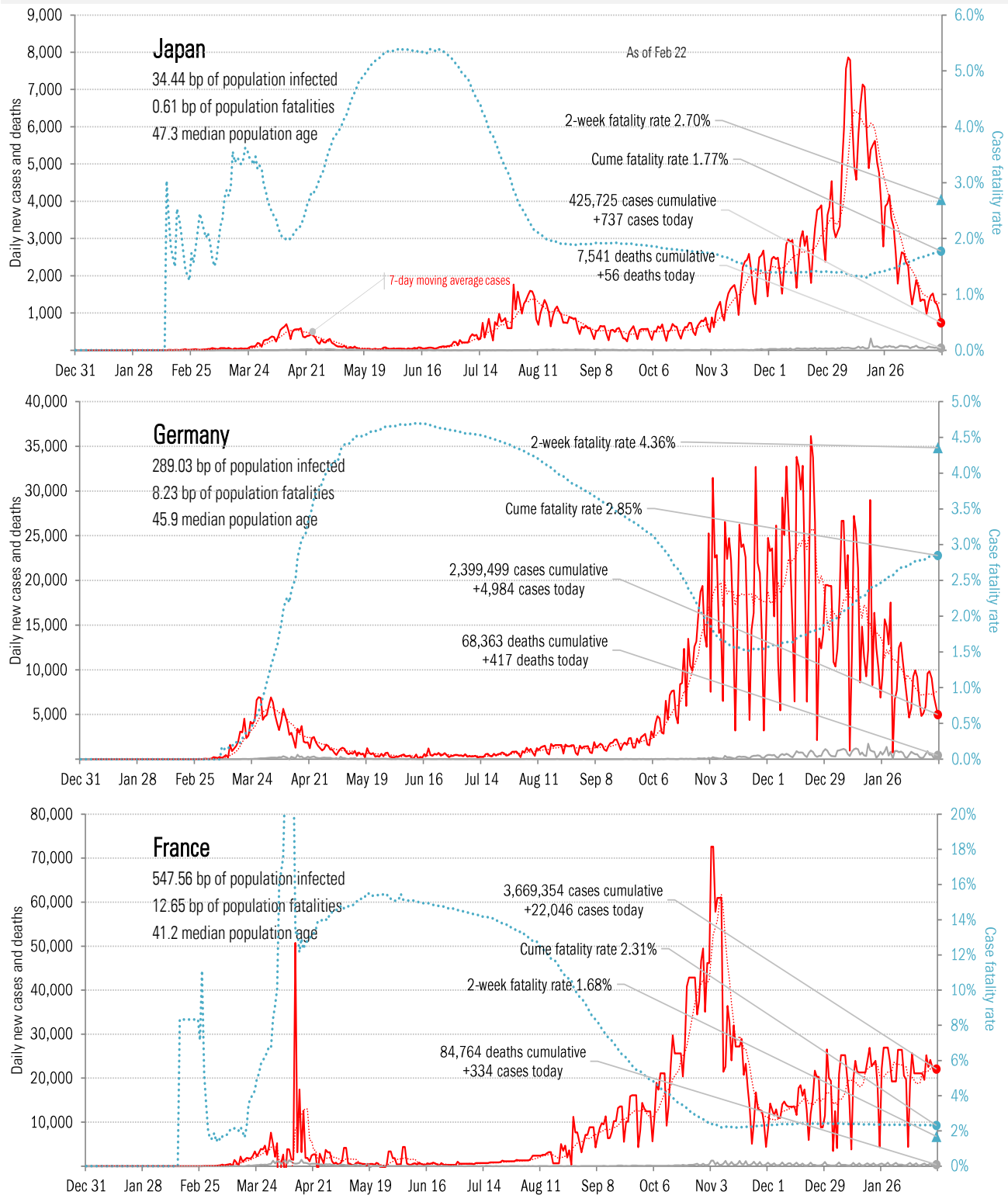
Source: [Covid Tracking Project](#), TrendMacro calculations

# Patient zero... and then everyone else



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

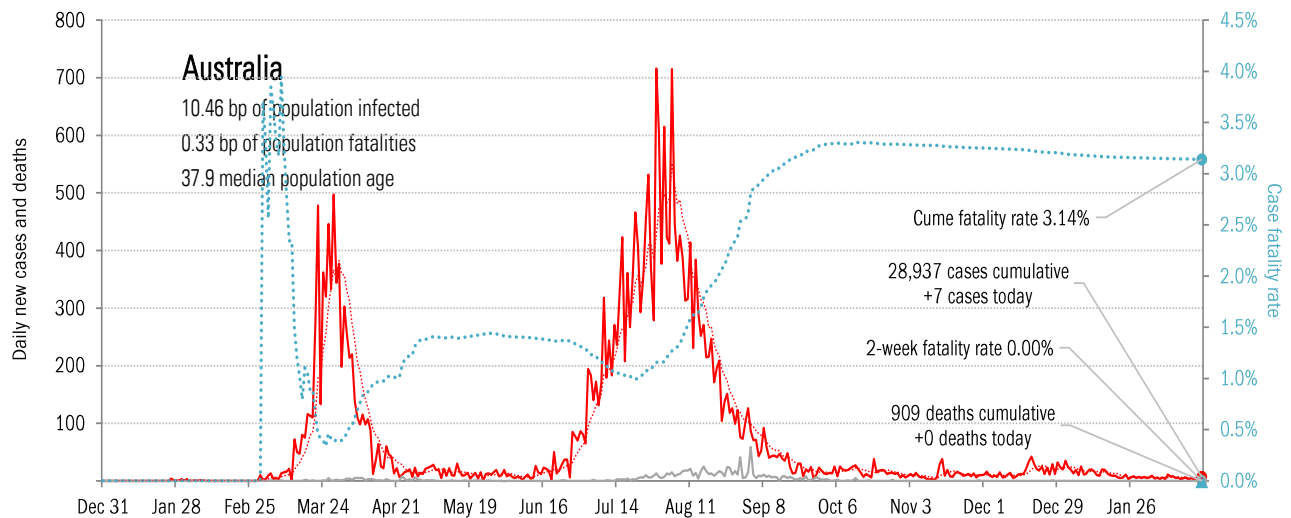
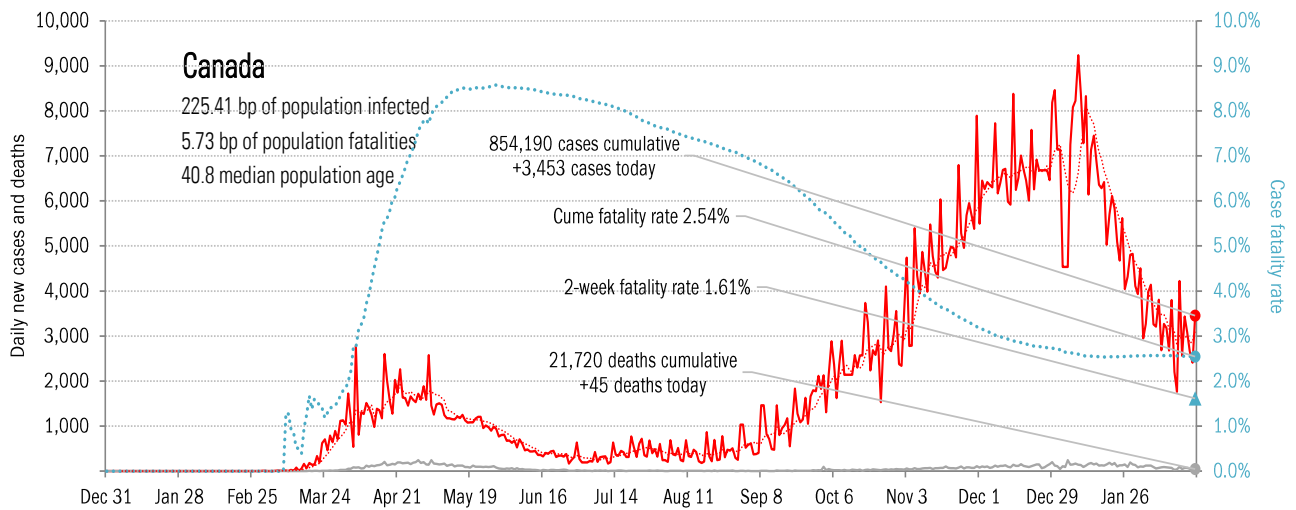
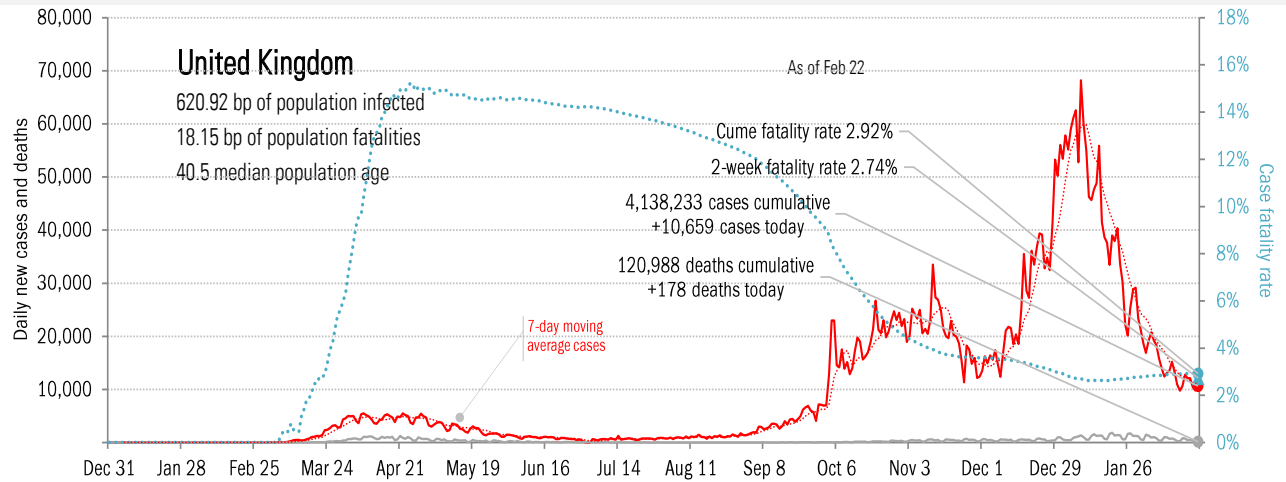
# Impact in the largest economies



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

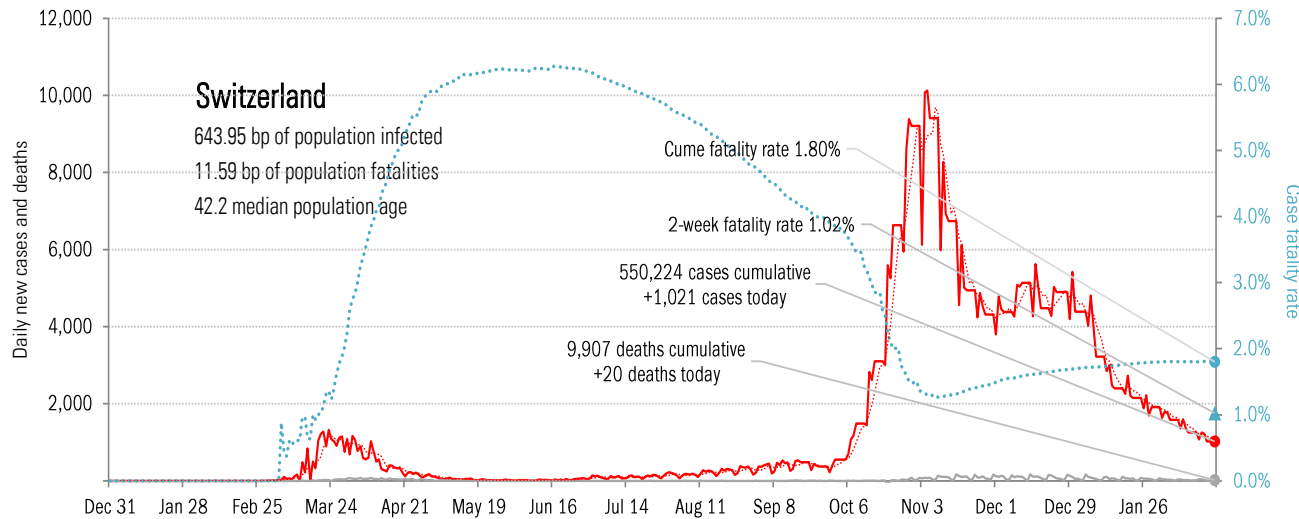
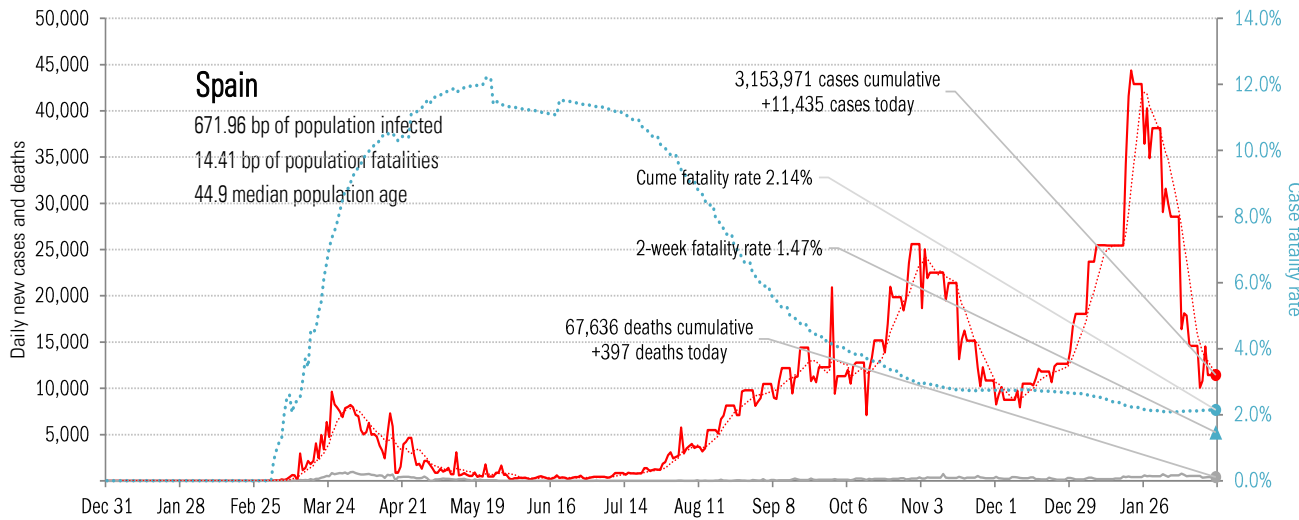
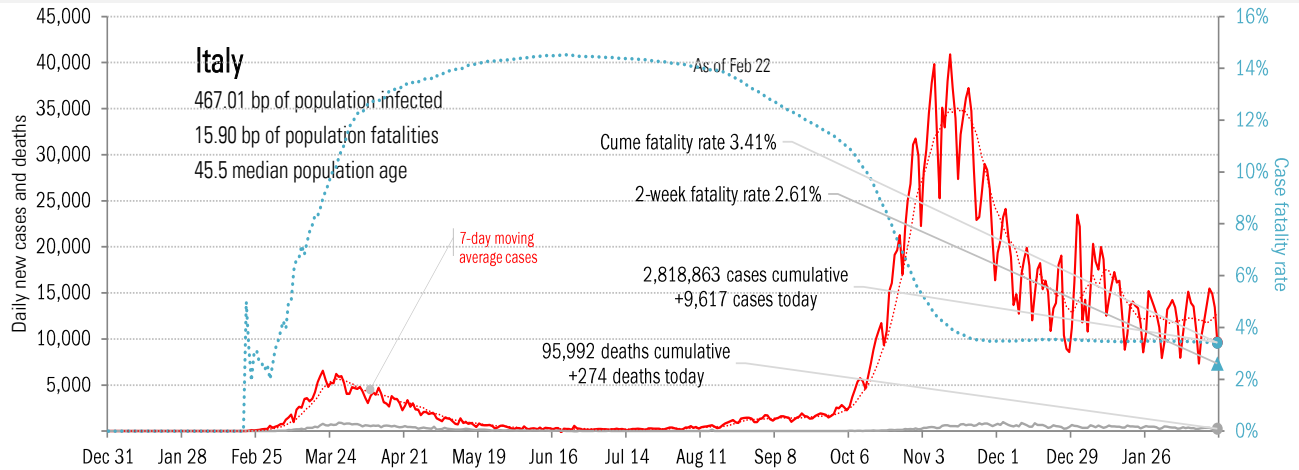


# Impact in The Anglosphere



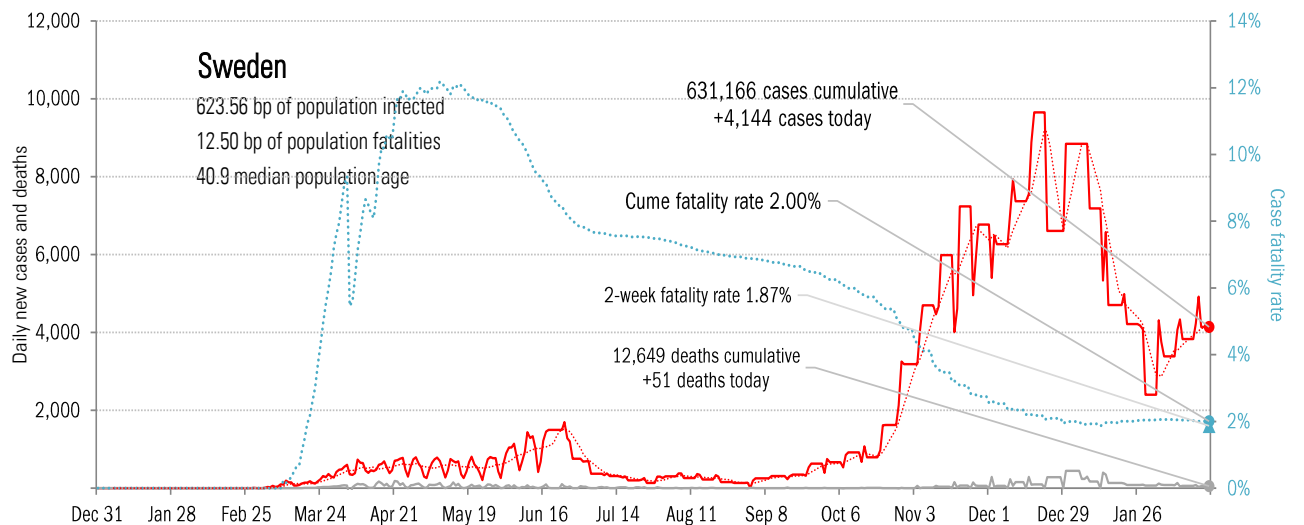
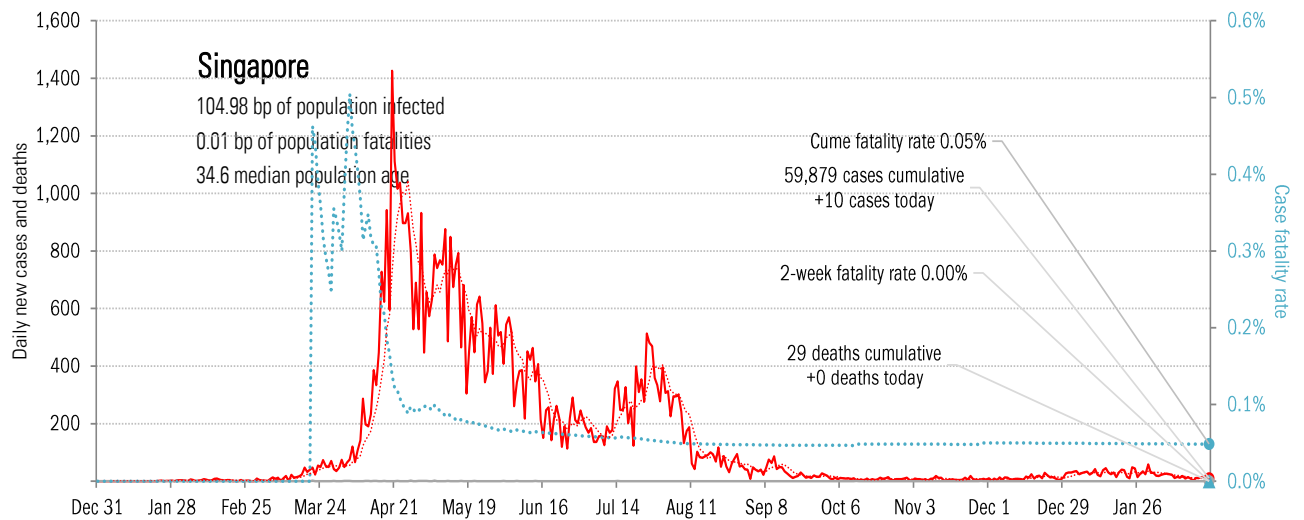
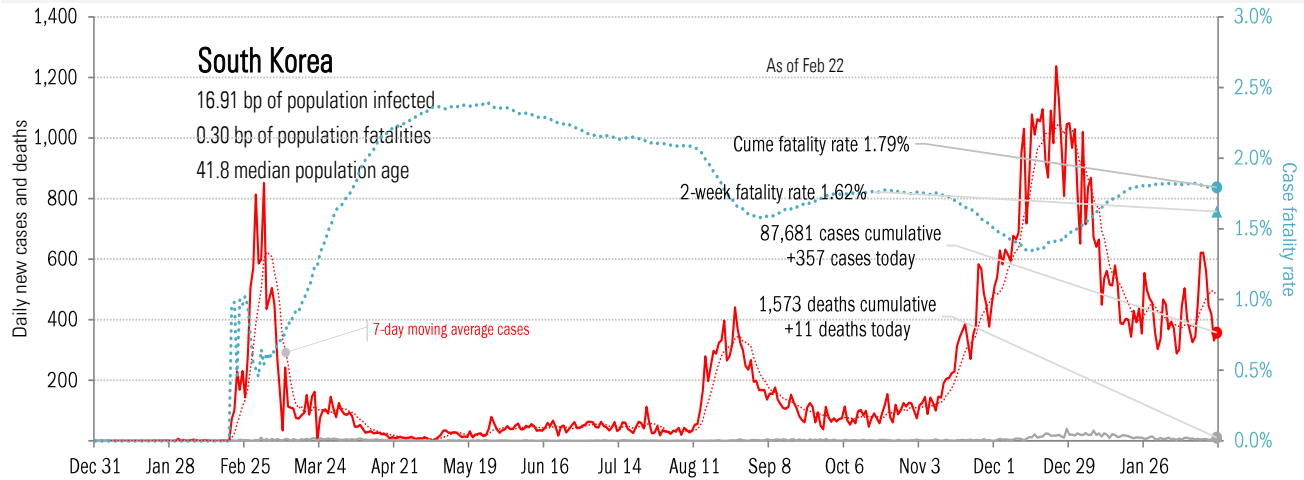
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in continental Europe



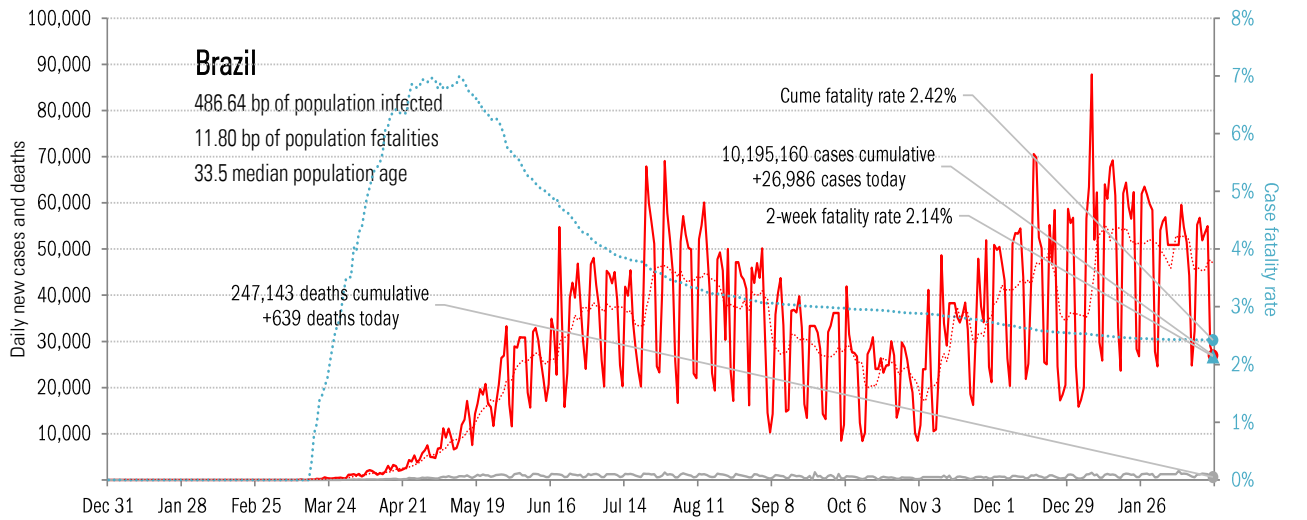
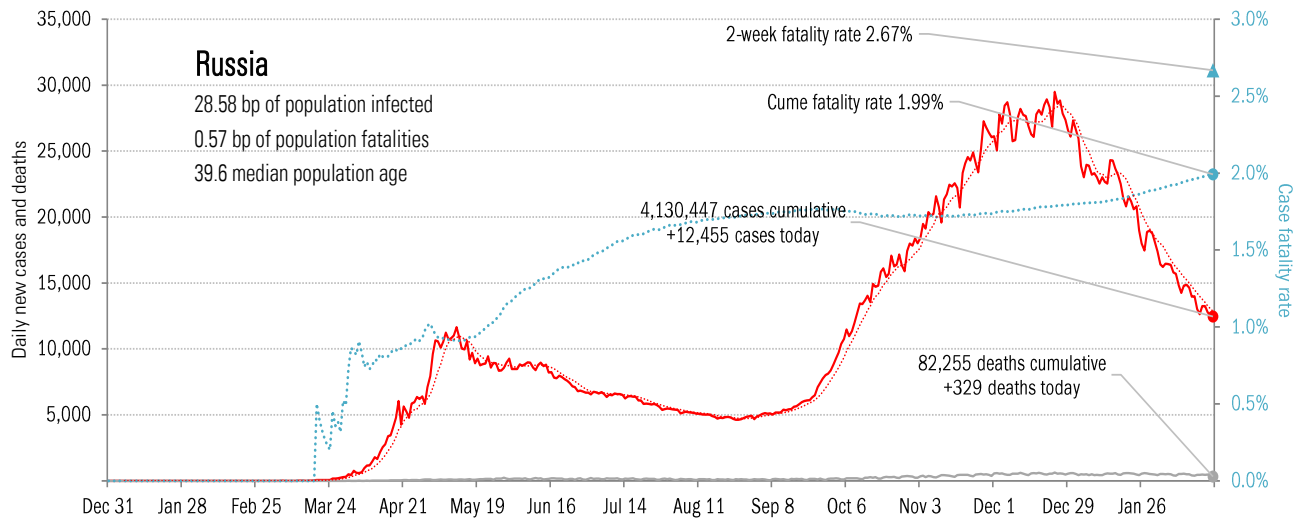
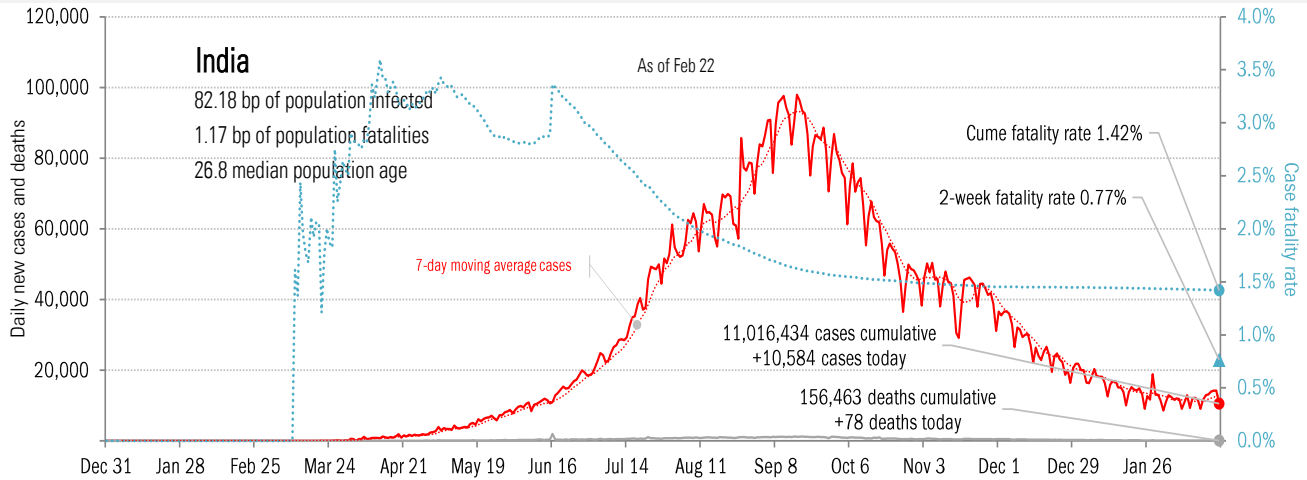
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



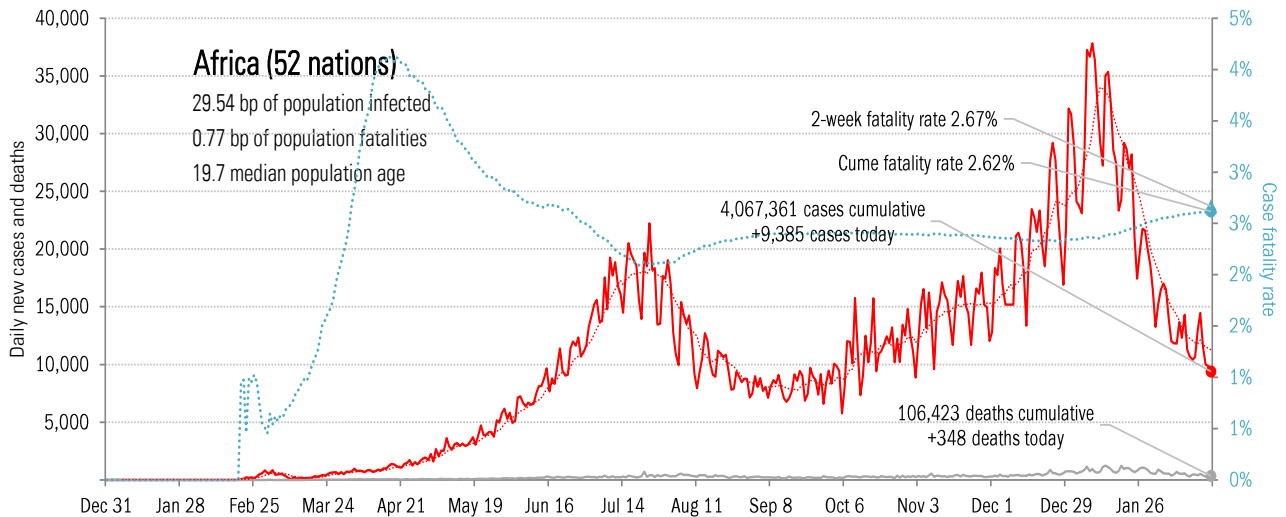
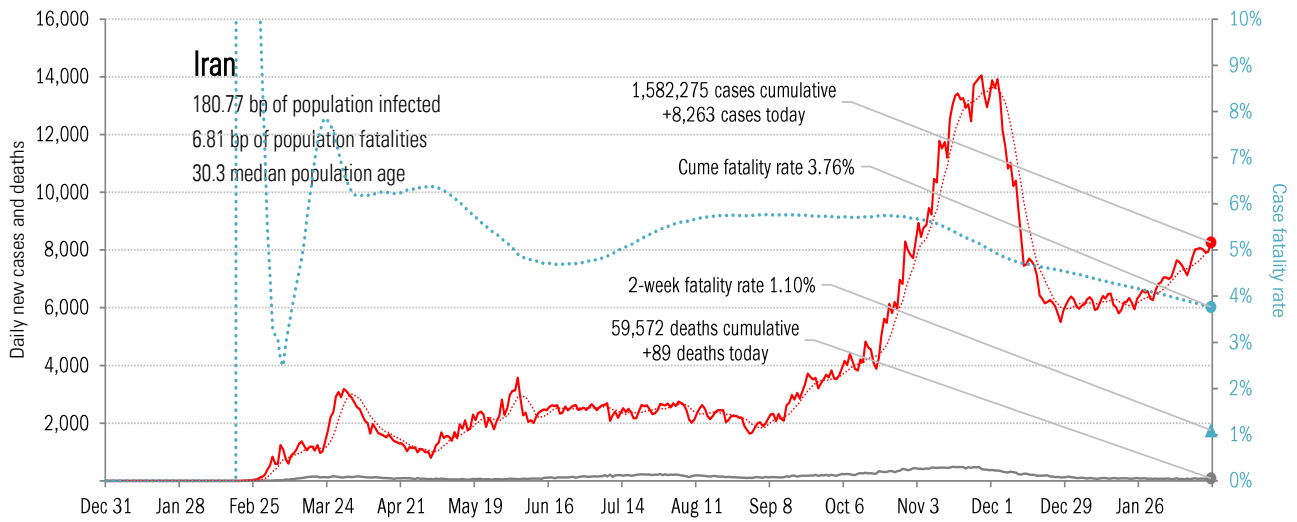
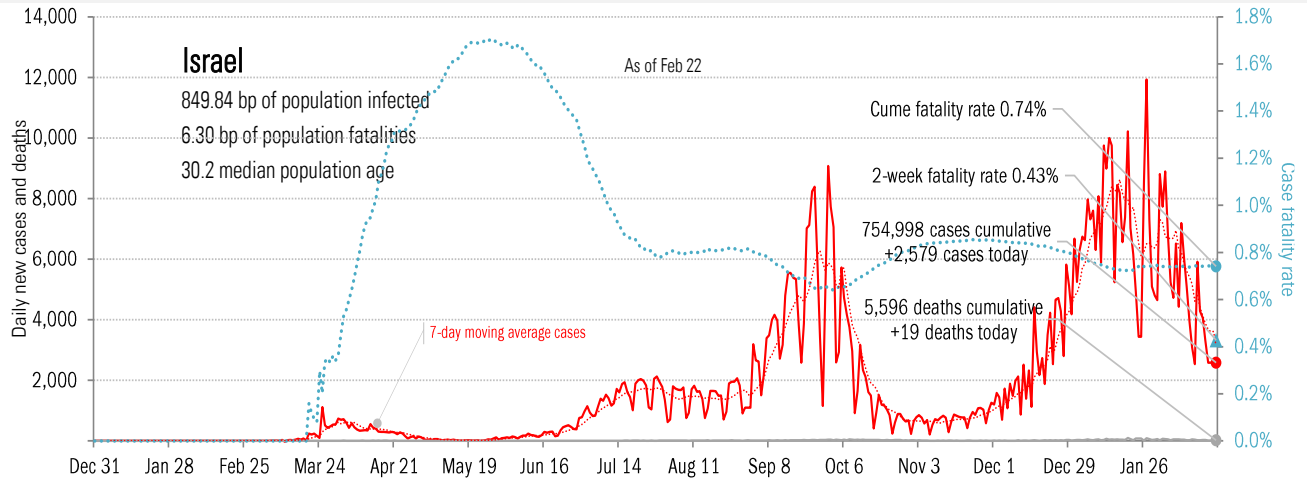
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



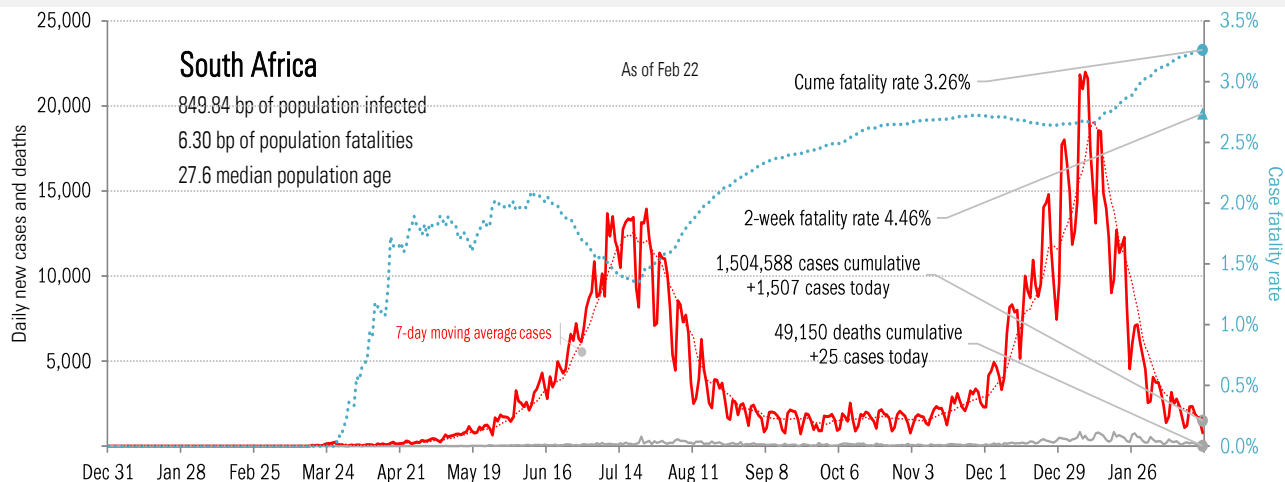
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

# Impact in Africa, continued



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