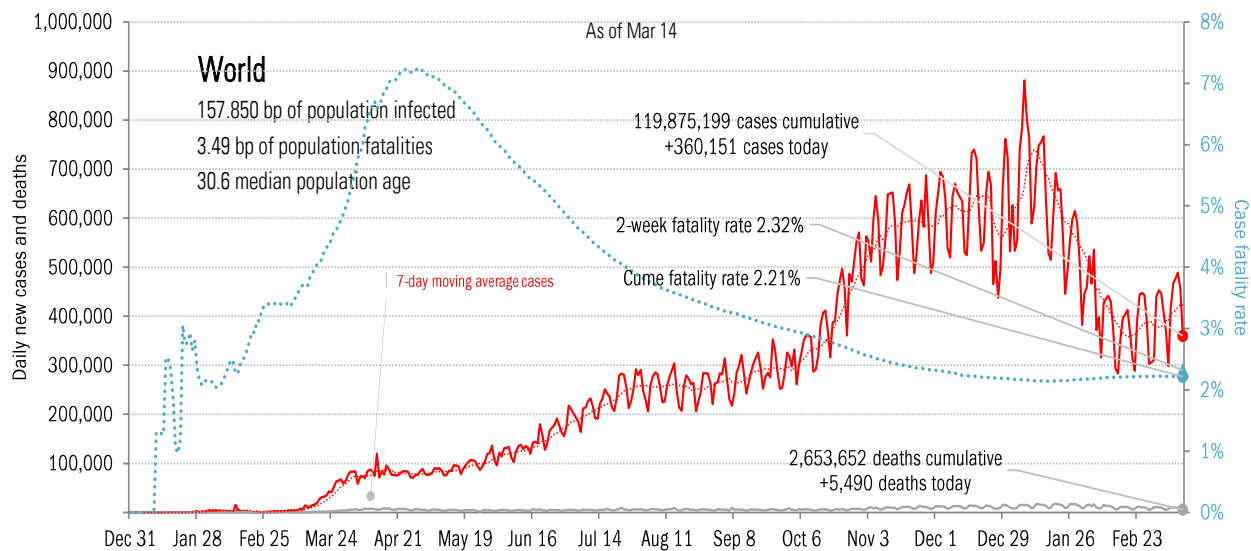
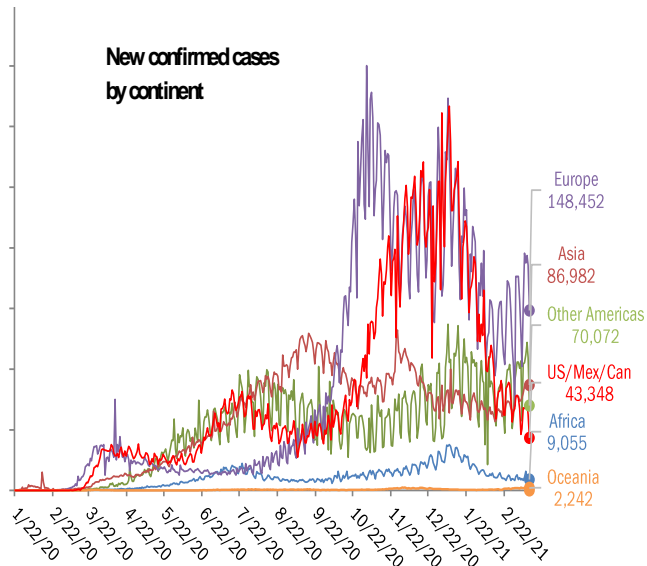


## Data Insights: Covid-2019 Monitor

Monday, March 15, 2021

### The global scorecard

The worst ten countries			
New cases		New Deaths	
Brazil	+43,812	Brazil	+1,127
United States	+38,222	United States	+572
France	+26,347	Russia	+389
India	+26,291	Italy	+264
Italy	+21,304	Mexico	+220
Poland	+17,272	France	+207
Turkey	+13,378	Peru	+177
Russia	+9,985	Hungary	+162
Ukraine	+9,110	Ukraine	+151
Germany	+8,978	Czechia	+143
<b>+214,699</b>		<b>+3,412</b>	
World	+360,151	World	+5,490
Top ten	60%	Top ten	62%



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

#### For more information contact us:

Donald Luskin: 312 273 6766 [don@trendmacro.com](mailto:don@trendmacro.com)  
 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

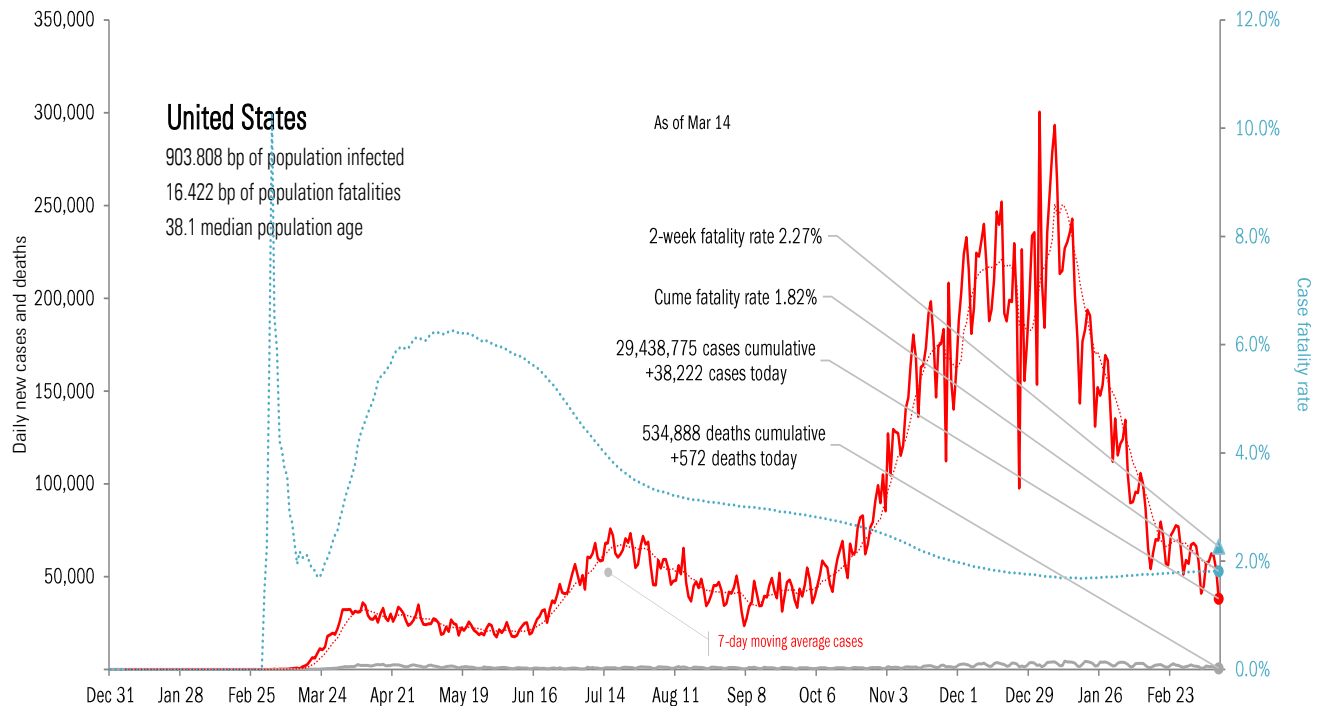
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
NY	+6,687		CA	+147		GA	+78		CA	3,623,063		CA	56,573		TX	219,466		R	93%	GA	83%
FL	+3,699		NY	+103		NY	+61		TX	2,727,462		NY	48,953		CA	217,410		MA	81%	DE	82%
NJ	+3,314		TX	+57		CH	+49		FL	1,976,808		TX	46,423		FL	144,600		GA	80%	DC	82%
TX	+2,855		VA	+34		MD	+26		NY	1,741,363		FL	32,255		NY	105,962		MD	80%	AL	80%
CA	+2,173		MA	+31		PA	+26		IL	1,209,245		PA	24,510		GA	91,343		DC	80%	TX	80%
PA	+1,721		FL	+30		MN	+23		GA	1,033,786		NJ	23,903		CH	72,996		CT	79%	MO	79%
MA	+1,692		LA	+23		NJ	+19		CH	989,191		IL	23,207		PA	69,826		MO	78%	FL	79%
IL	+1,488		AR	+19		TN	+19		PA	968,259		GA	18,215		KY	66,137		FL	78%	RI	78%
CO	+1,215		IL	+18		MI	+18		NC	882,715		CH	17,870		IL	65,862		SC	78%	MI	77%
VA	+1,173		KY	+16		WI	+11		NJ	837,861		MI	16,769		AZ	57,125		MI	78%	NC	76%
+26,017			+478			+330			15,989,753			308,678			1,110,727			All states 73%		70%	
All states +38,222			+572			+101			All states 29,438,775			534,888			1,975,822			All states 73%		70%	
Top ten 68%			84%			327%			Top ten 54%			58%			56%			Median 71%		69%	

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NY	-3,564	CA	-762	TX	-63	ME	+94 bp
MI	-2,003	TX	-80	IN	-30	NM	+65 bp
FL	-1,545	GA	-53	NM	-27	KS	+59 bp
WA	-909	FL	-50	KY	-21	AK	+58 bp
NC	-892	MI	-40	FL	-20	MT	+51 bp



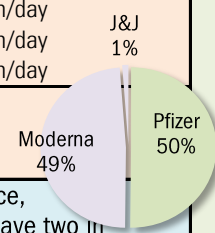
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

US overall	Over last day	Share pop full immunization
142.63 million doses distributed	+0.00 million/day	United States 11.2%
111.94 million doses administered	+1.37 million/day	United Kingdom 2.3%
72.62 million persons partially immunized	+0.91 million/day	France 3.3%
39.15 million persons fully immunized	+0.54 million/day	Spain 3.4%
7.55 million shots long-term care residents/staff	+0.01 million/day	Germany 3.3%

78.5% of distributed doses administered  
 27.5% of US pop partial  
 100% of LTC partial

14.8% full immunity  
 60.9% full immunity



Country	Share pop full immunization
United States	11.2%
United Kingdom	2.3%
France	3.3%
Spain	3.4%
Germany	3.3%
Italy	3.3%
Australia	1.0%
Israel	48.6%
Canada	1.6%
Japan	0.0%
China	9.3%
India	0.4%
Brazil	1.4%

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

**397 days**  
by Apr 15, 2022

US will achieve herd immunity in

**163 days**  
by Aug 23, 2021

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

AK
64.6%
27.7%
17.9%

ME
43.4%
25.5%
13.8%

WI
38.4%
22.8%
12.7%

VT
46.9%
23.9%
12.5%

NH
41.6%
24.5%
11.4%

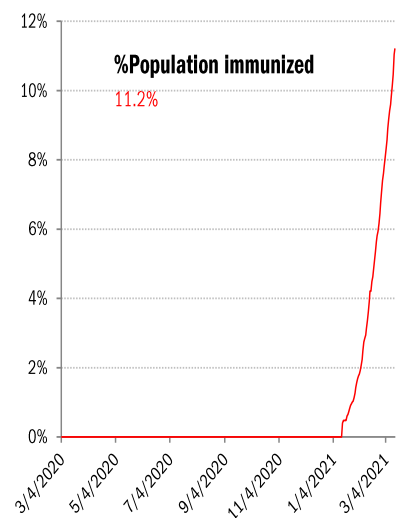
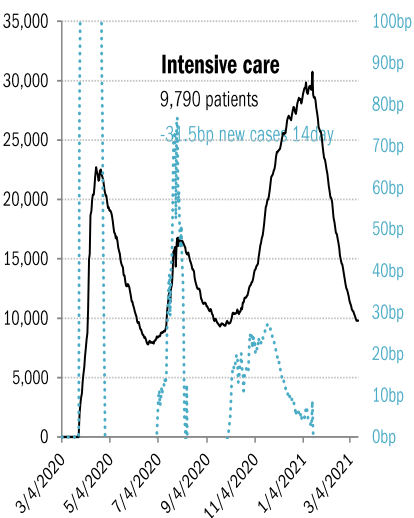
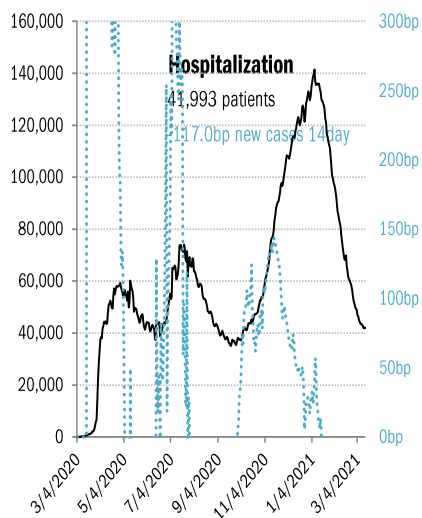
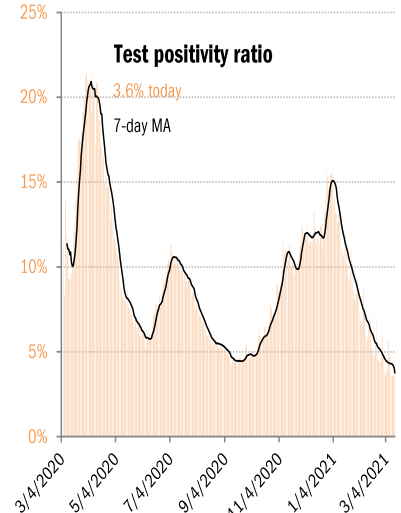
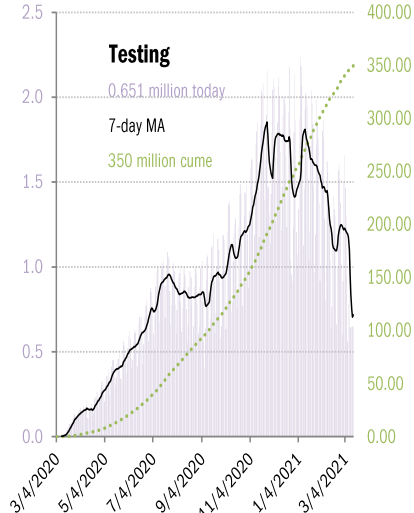
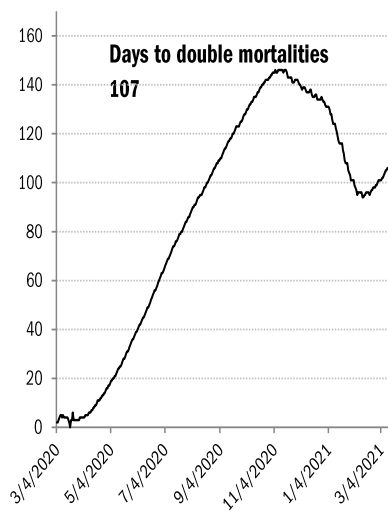
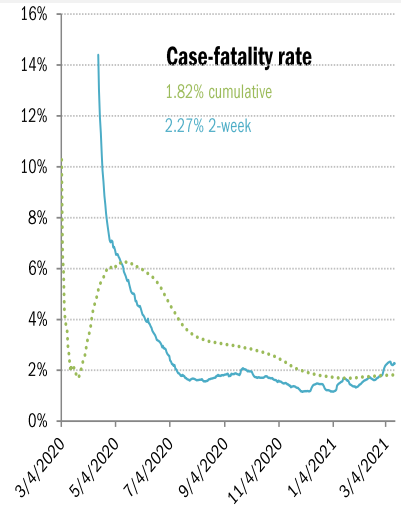
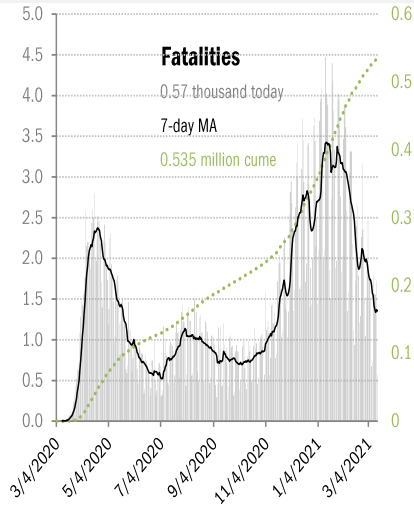
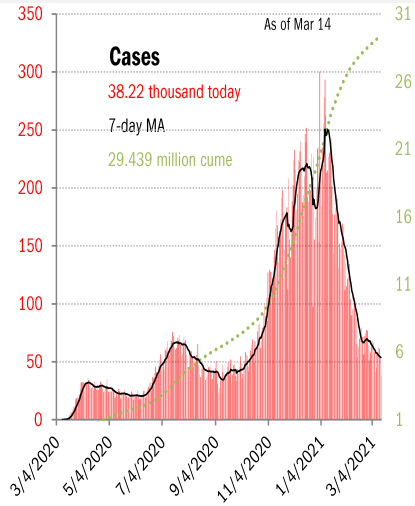
<b>WA</b> 41.1% 21.5% 12.2%	<b>ID</b> 37.6% 19.1% 11.6%	<b>MT</b> 45.0% 23.5% 13.9%	<b>ND</b> 45.2% 25.9% 14.5%	<b>MN</b> 40.1% 23.6% 12.7%	<b>IL</b> 40.8% 21.7% 11.5%	<b>MI</b> 39.3% 20.6% 11.6%	<b>NY</b> 42.3% 21.7% 10.5%	<b>MA</b> 41.9% 24.9% 12.7%		
<b>OR</b> 38.9% 20.6% 11.8%	<b>NV</b> 38.0% 20.2% 11.4%	<b>WY</b> 46.7% 22.3% 13.9%	<b>SD</b> 51.7% 27.4% 15.2%	<b>IA</b> 40.8% 23.3% 12.9%	<b>IN</b> 37.7% 19.3% 12.4%	<b>OH</b> 40.6% 20.4% 11.9%	<b>PA</b> 42.5% 22.0% 10.8%	<b>NJ</b> 40.3% 23.9% 12.2%	<b>CT</b> 46.5% 26.2% 13.9%	<b>RI</b> 43.7% 25.3% 10.5%
<b>CA</b> 41.4% 20.3% 9.7%	<b>UT</b> 35.7% 19.1% 8.3%	<b>CO</b> 40.7% 20.8% 12.1%	<b>NE</b> 43.1% 22.2% 12.8%	<b>MO</b> 39.4% 19.4% 10.3%	<b>KY</b> 40.2% 22.9% 11.6%	<b>WV</b> 46.0% 23.3% 14.5%	<b>VA</b> 38.6% 21.9% 12.5%	<b>MD</b> 40.2% 21.8% 12.3%	<b>DE</b> 43.3% 20.2% 11.9%	
<b>AZ</b> 41.6% 22.0% 12.2%	<b>NM</b> 49.4% 29.0% 16.6%	<b>KS</b> 43.2% 21.2% 11.1%	<b>AR</b> 41.5% 19.2% 10.3%	<b>TN</b> 39.8% 18.1% 9.7%	<b>NC</b> 40.7% 20.9% 11.6%	<b>SC</b> 37.6% 19.8% 11.2%	<b>DC</b> 55.1% 17.1% 8.8%			
<b>OK</b> 50.1% 23.8% 13.0%	<b>LA</b> 40.7% 19.9% 11.6%	<b>MS</b> 41.6% 19.8% 11.0%	<b>AL</b> 39.1% 17.3% 10.1%	<b>GA</b> 37.5% 15.7% 9.7%						
<b>HI</b> 48.1% 23.3% 14.3%	<b>TX</b> 37.8% 18.7% 9.8%	<b>FL</b> 42.6% 20.4% 11.4%	<b>PR</b> 45.1% 14.8% 8.8%							

As of Mar 14

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

# US deep-dive

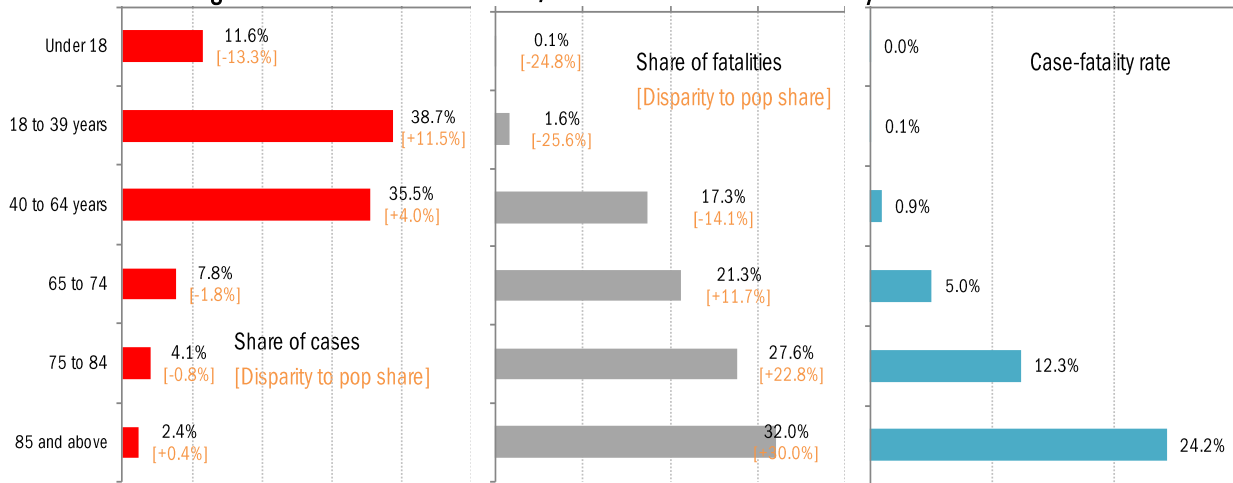
National and state-by-state data do not line up because of different sources



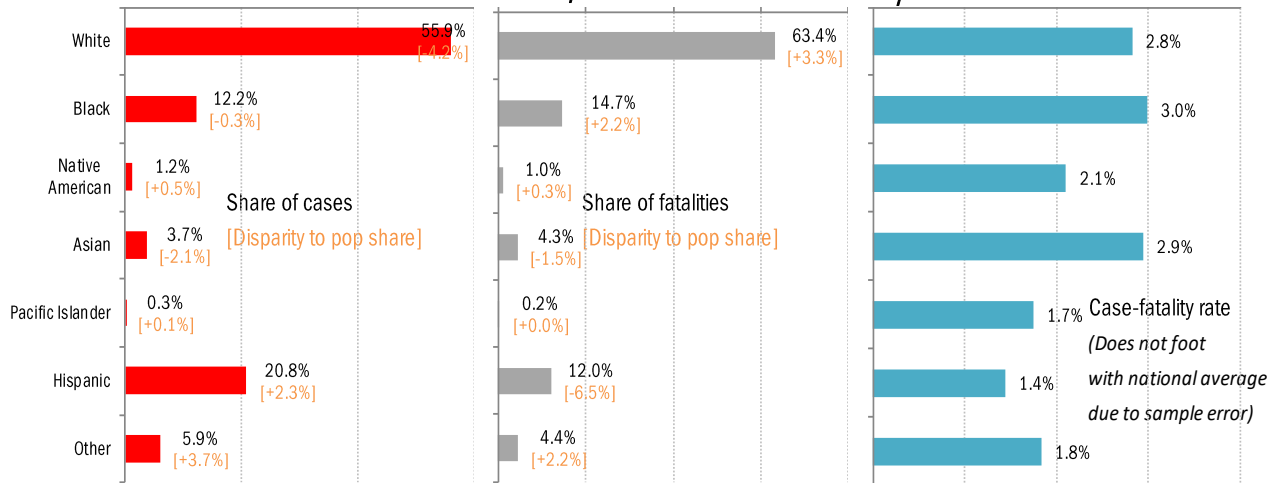
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

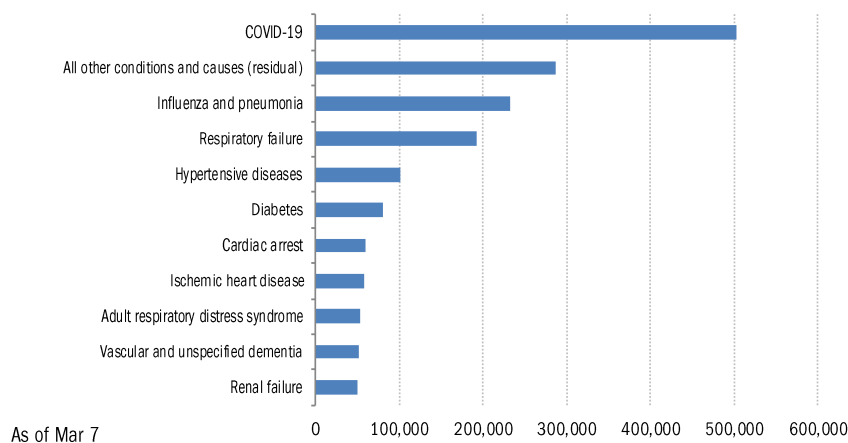


## Racial distribution of US cases, fatalities and case-fatality rates



## Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



For 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

### [How to Make Spring the Last Lost Semester](#)

Scott Gottlieb and Caitlin Rivers

*Wall Street Journal*

March 14, 2021

### [AstraZeneca Says No Evidence Vaccine Increases Blood-Clot Risk](#)

Sebastian Tong

*Bloomberg*

March 14, 2021

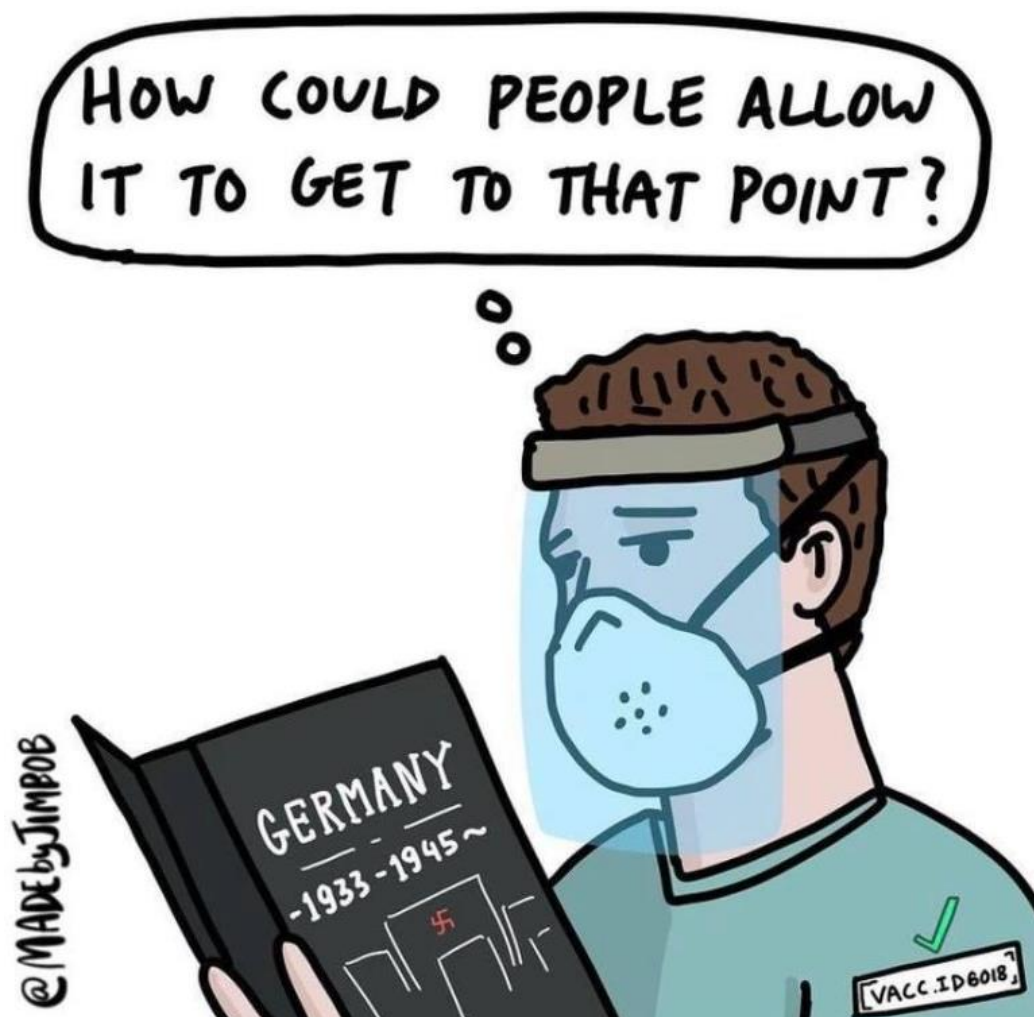
### [Clergy Preach Faith in the Covid Vaccine to Doubters](#)

Jan Hoffman

*New York Times*

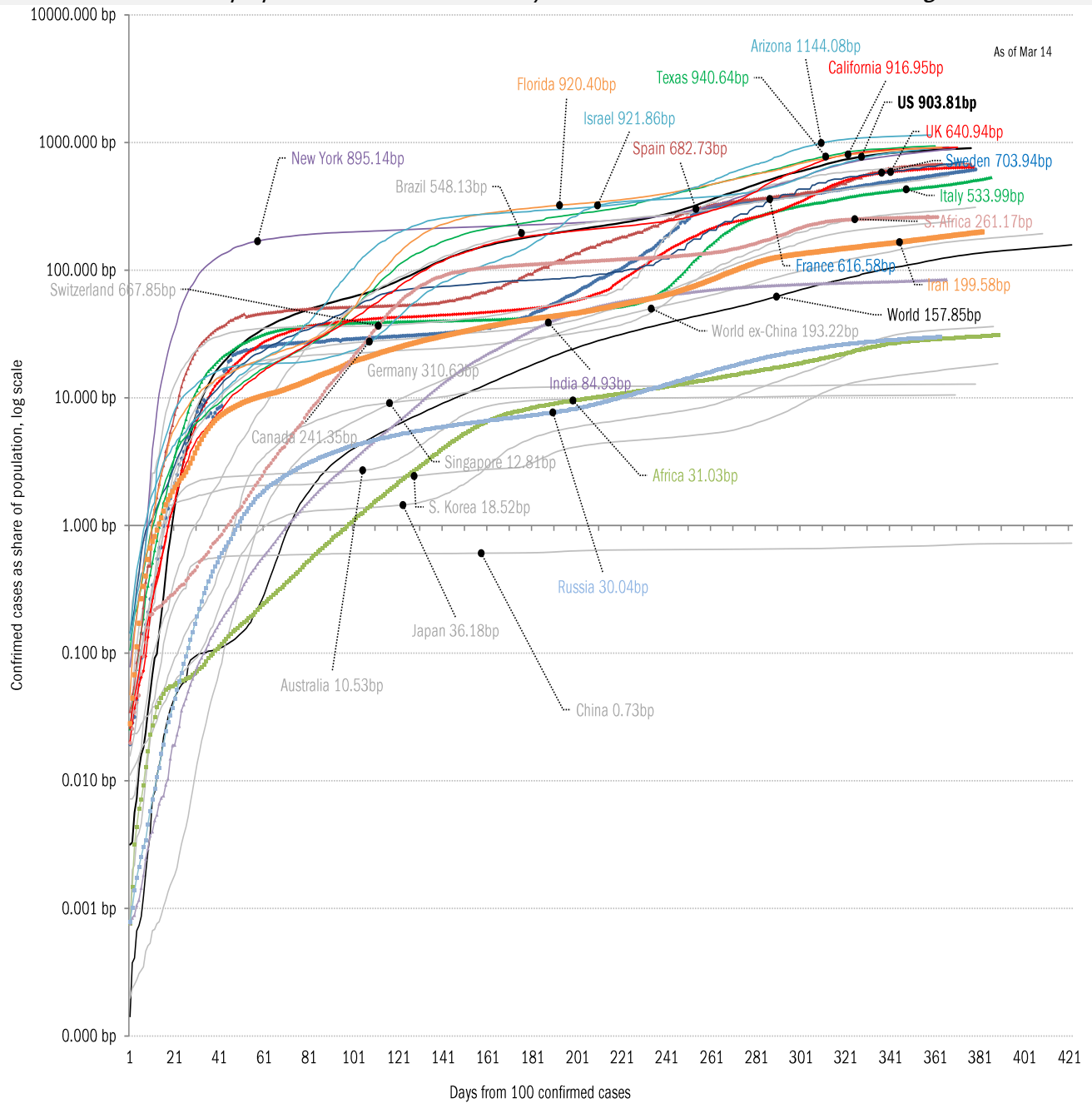
March 14, 2021

## 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*

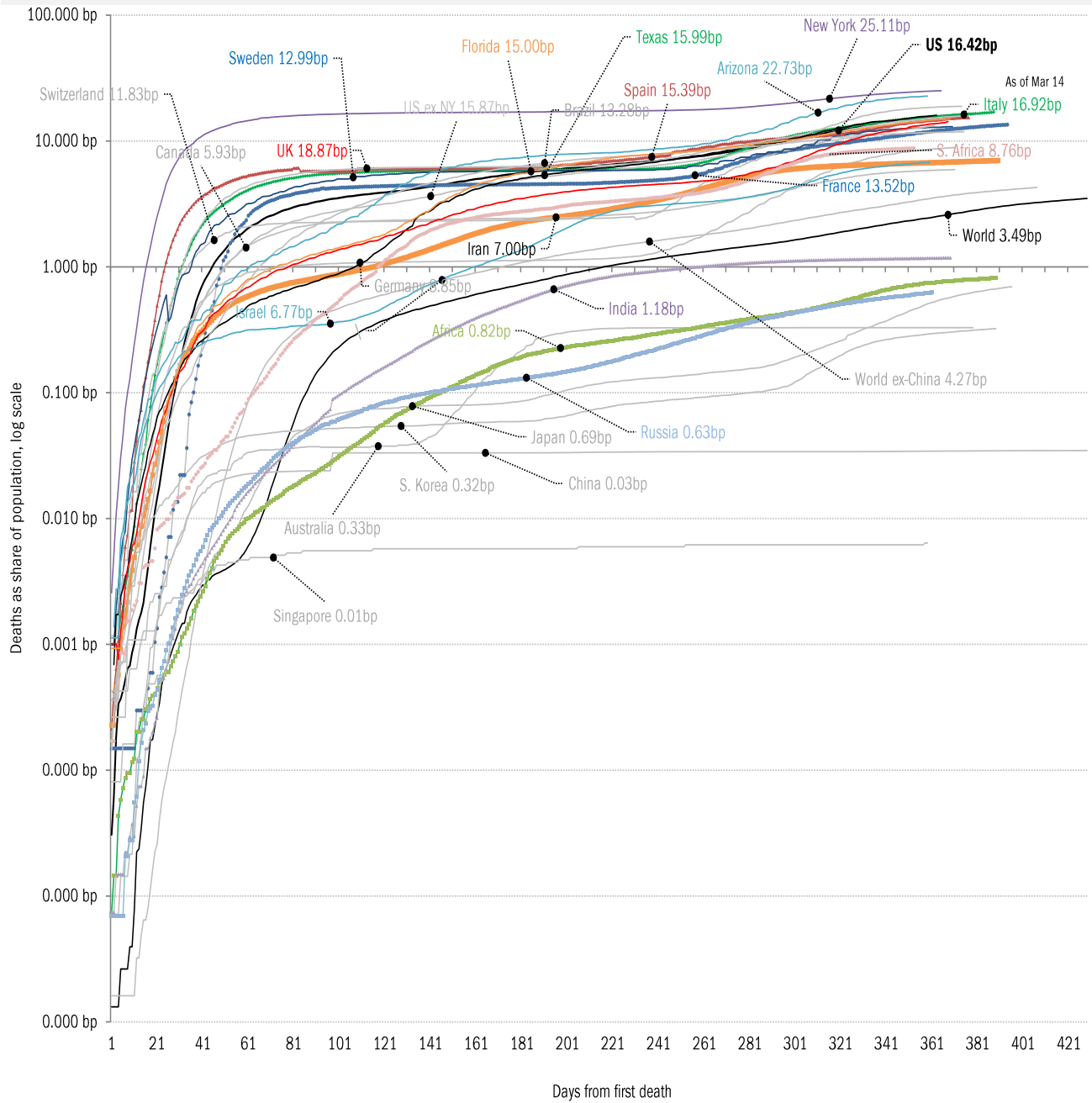


Source: [Johns Hopkins](#), TrendMacro calculations



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

## Share of deceased population from day of first fatality



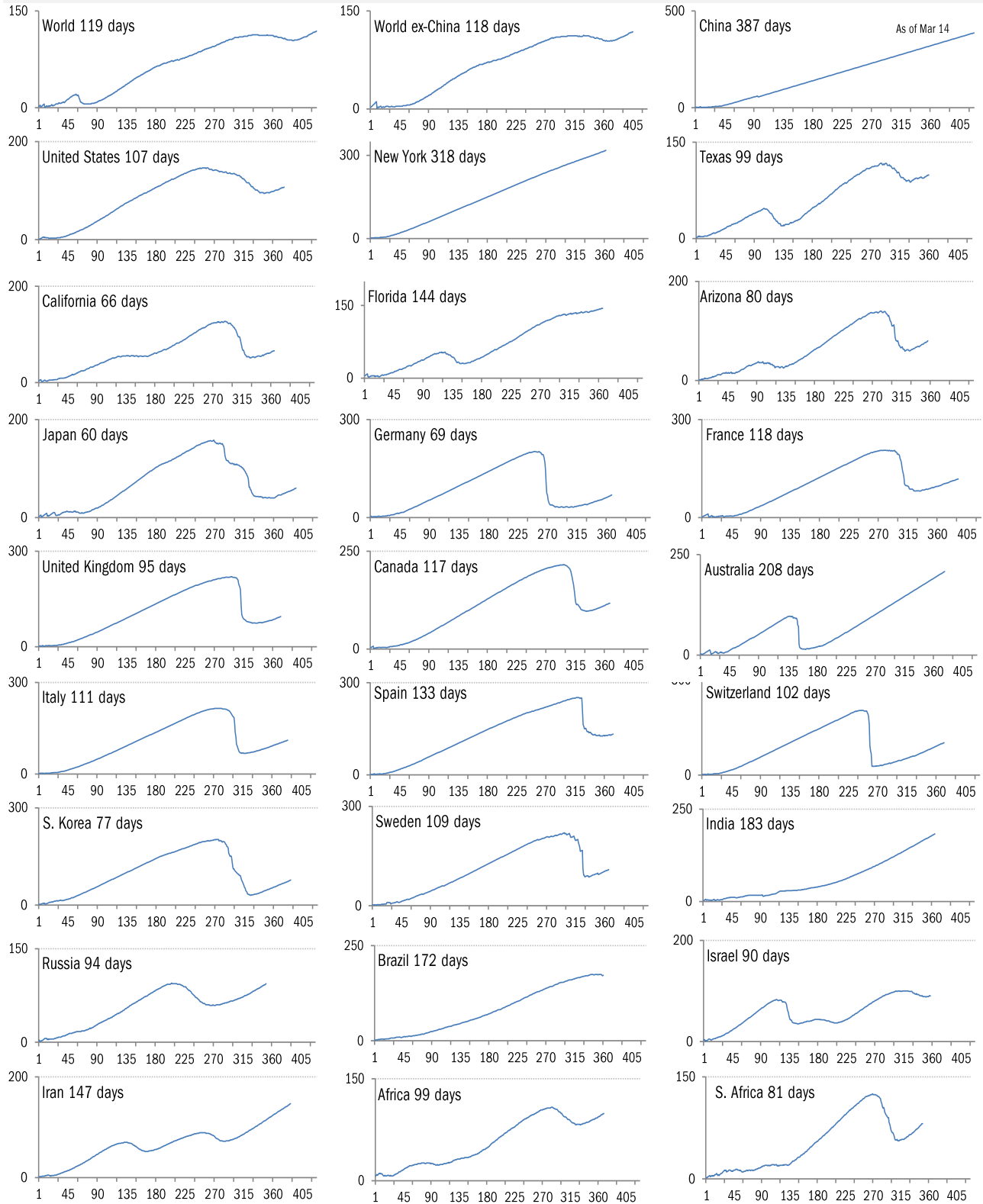
Source: [Johns Hopkins](#), TrendMacro calculations



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

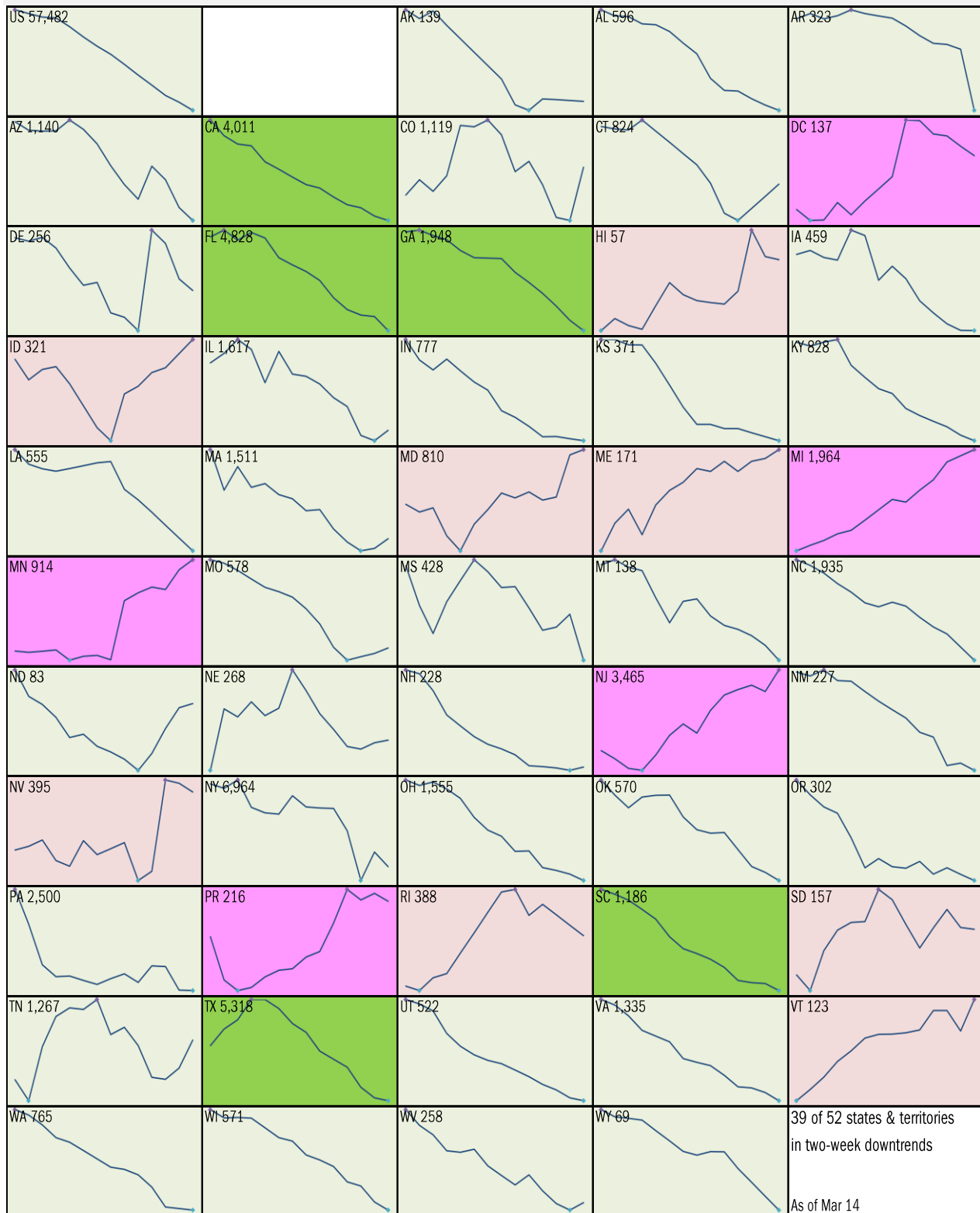


Source: [Johns Hopkins](#), TrendMacro calculations

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

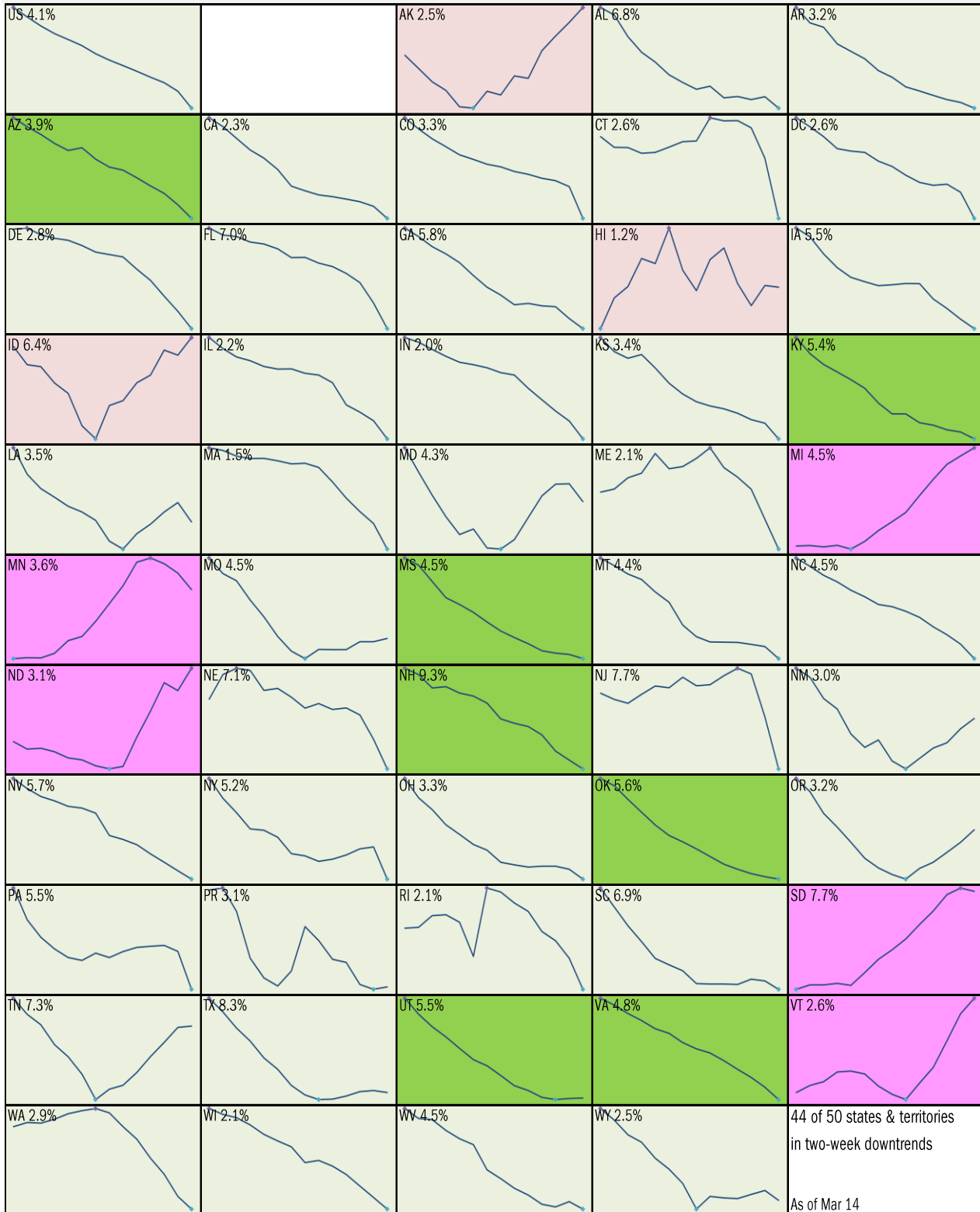


Source: [Johns Hopkins](#), TrendMacro calculations

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

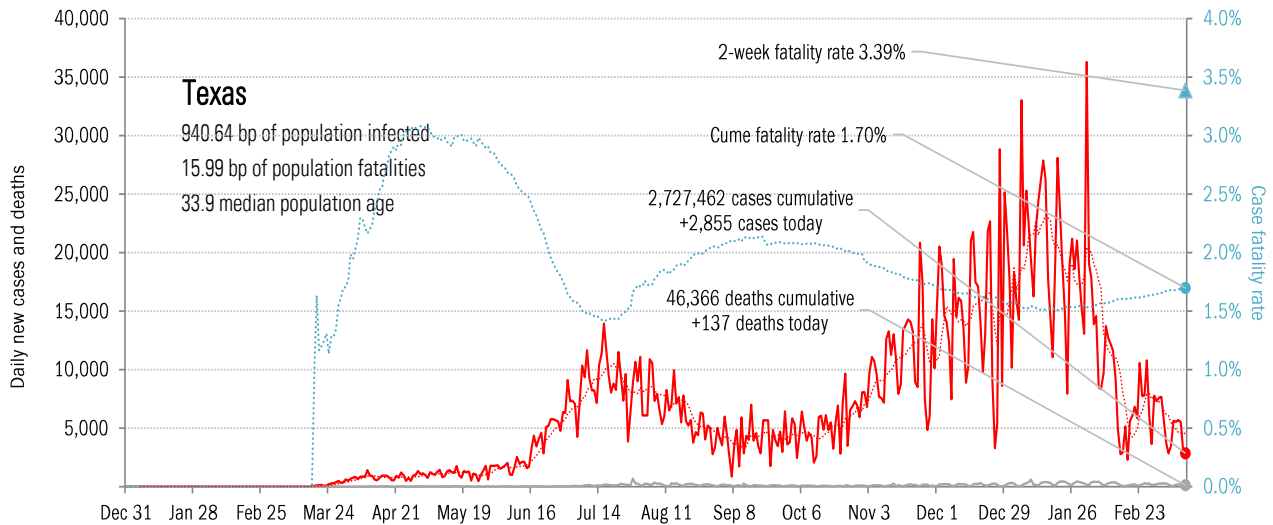
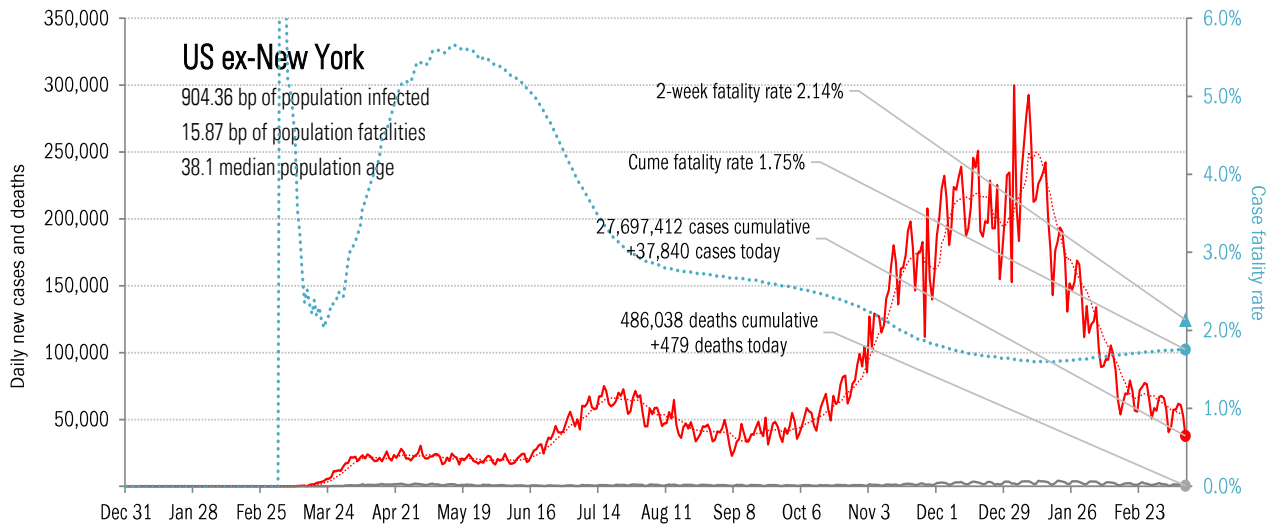
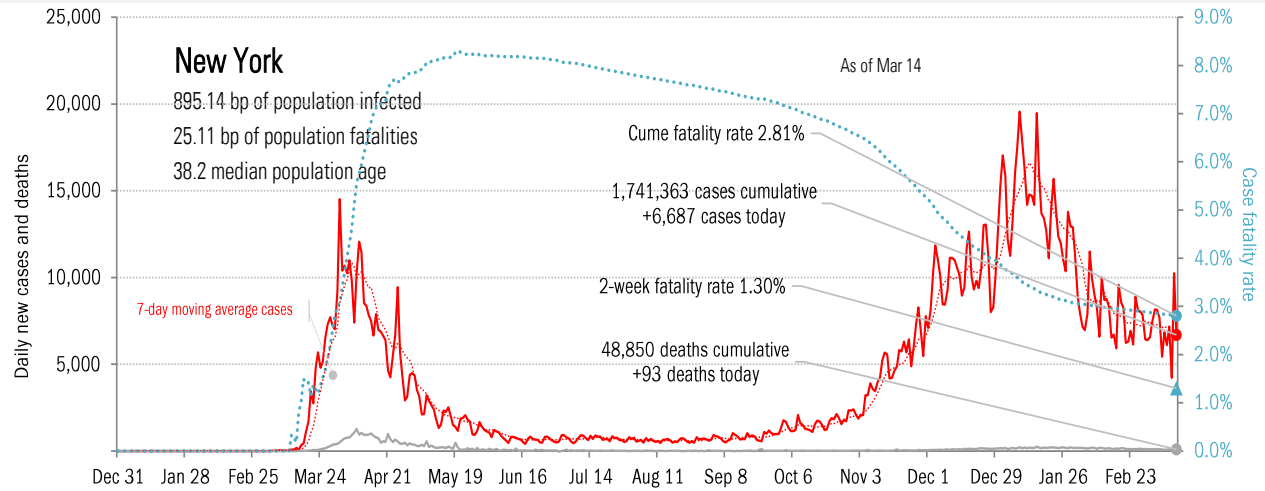
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



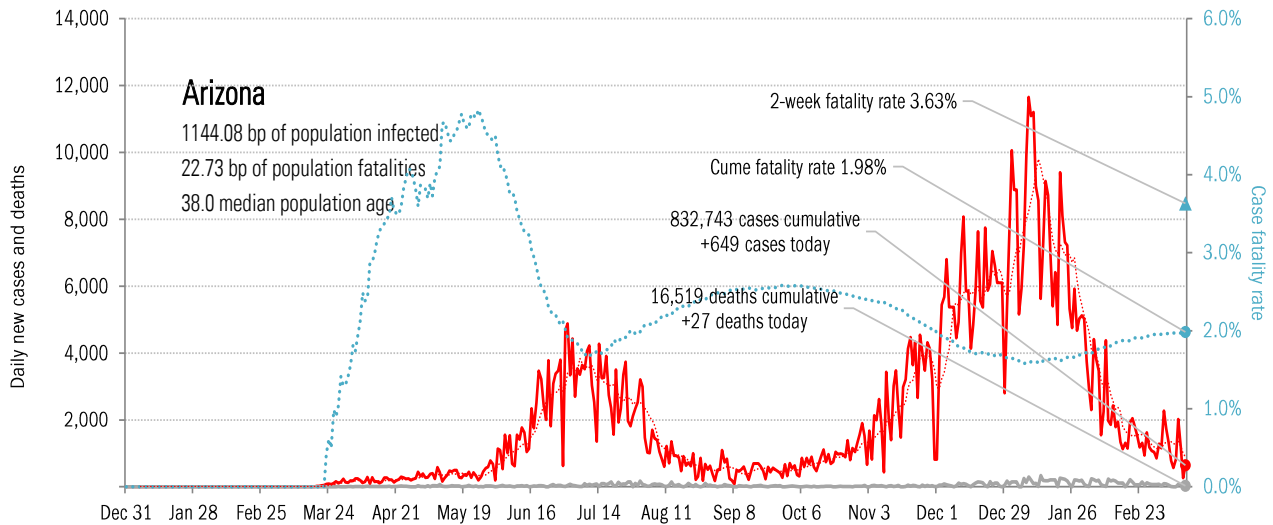
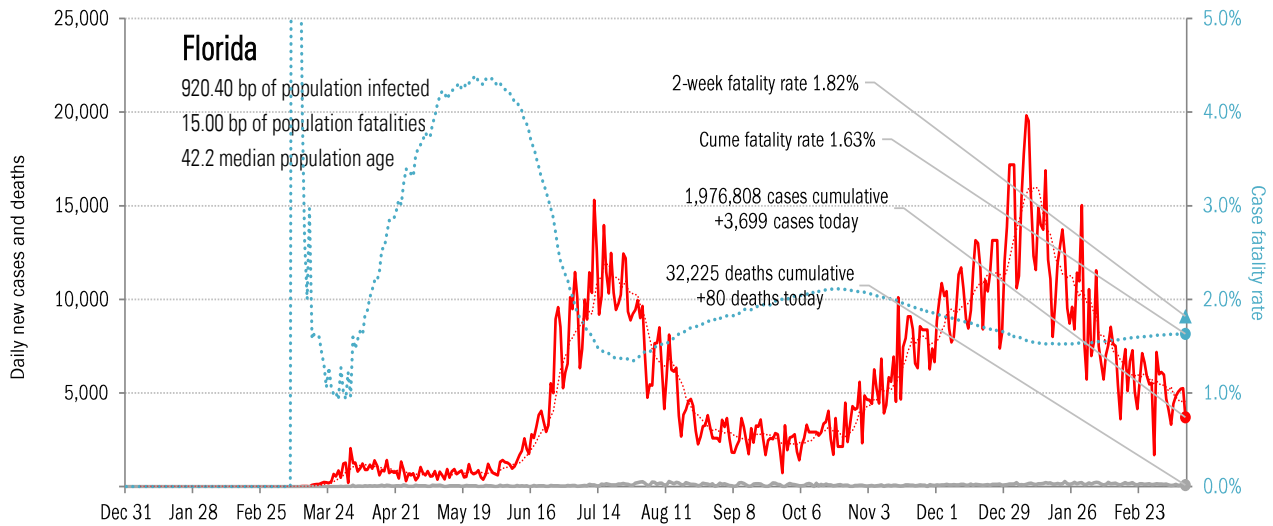
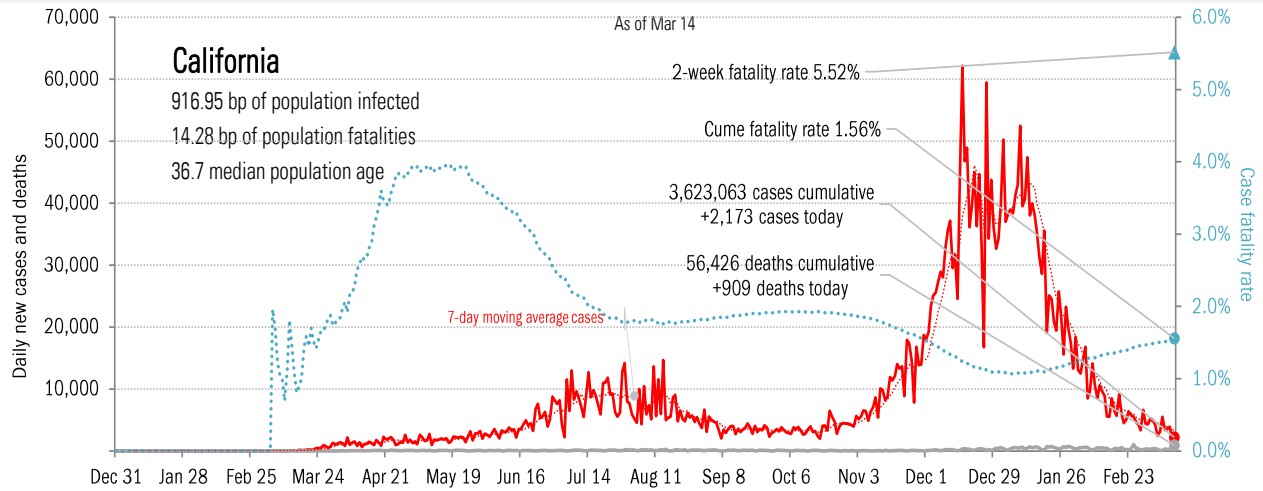
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



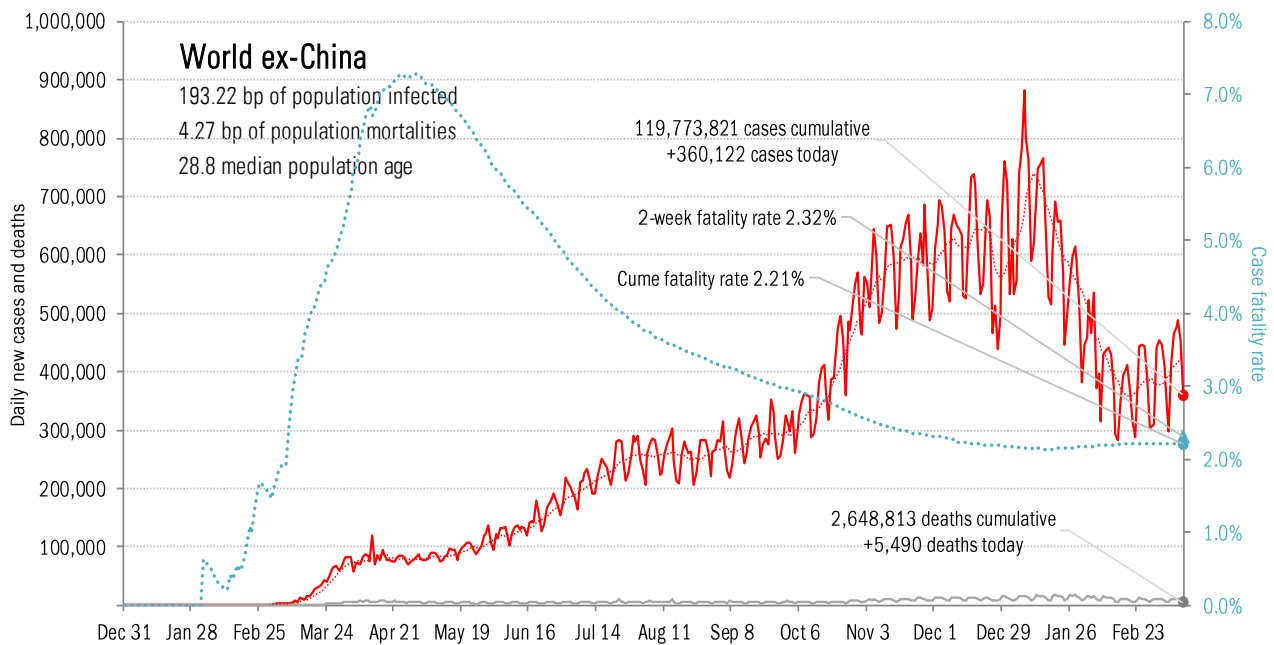
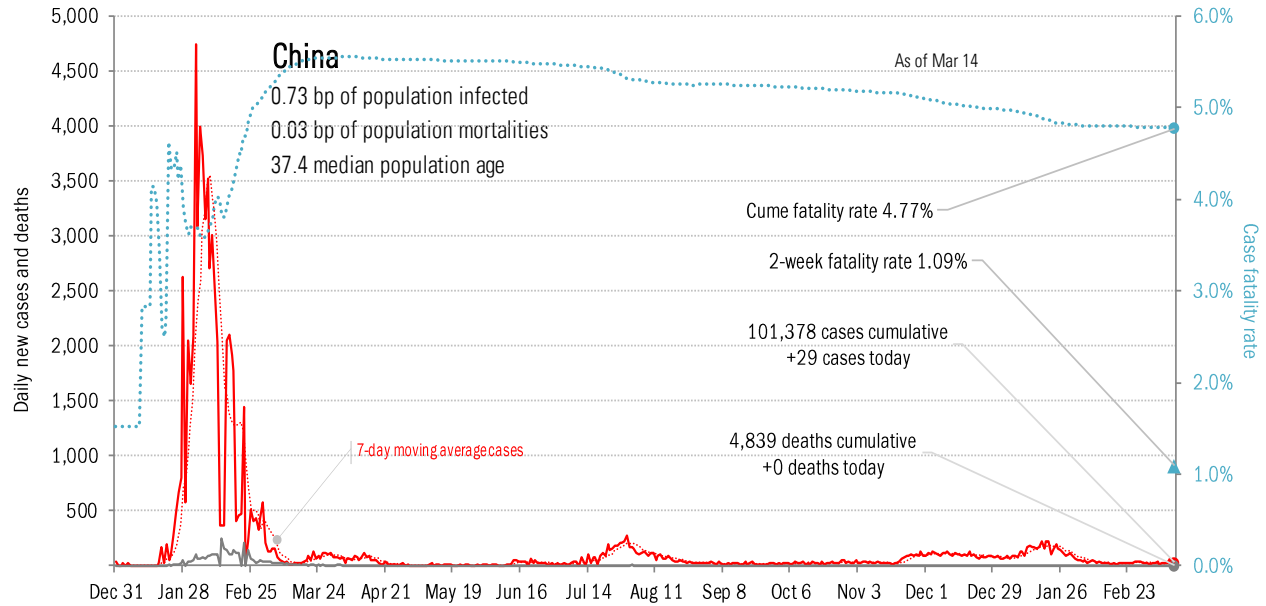
Source: [Johns Hopkins](#), TrendMacro calculations

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



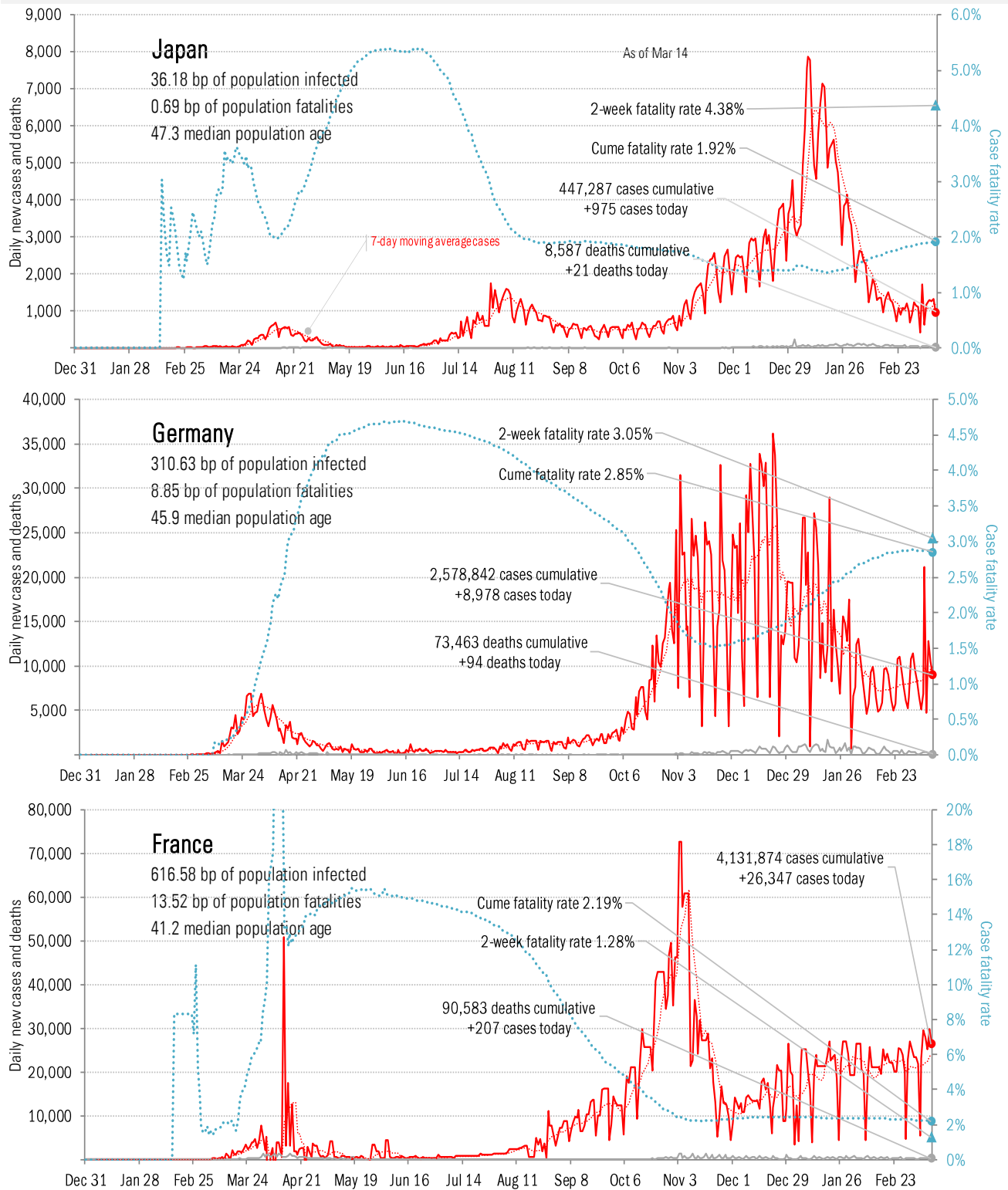
Source: [Johns Hopkins](#), TrendMacro calculations

# Patient zero... and then everyone else



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

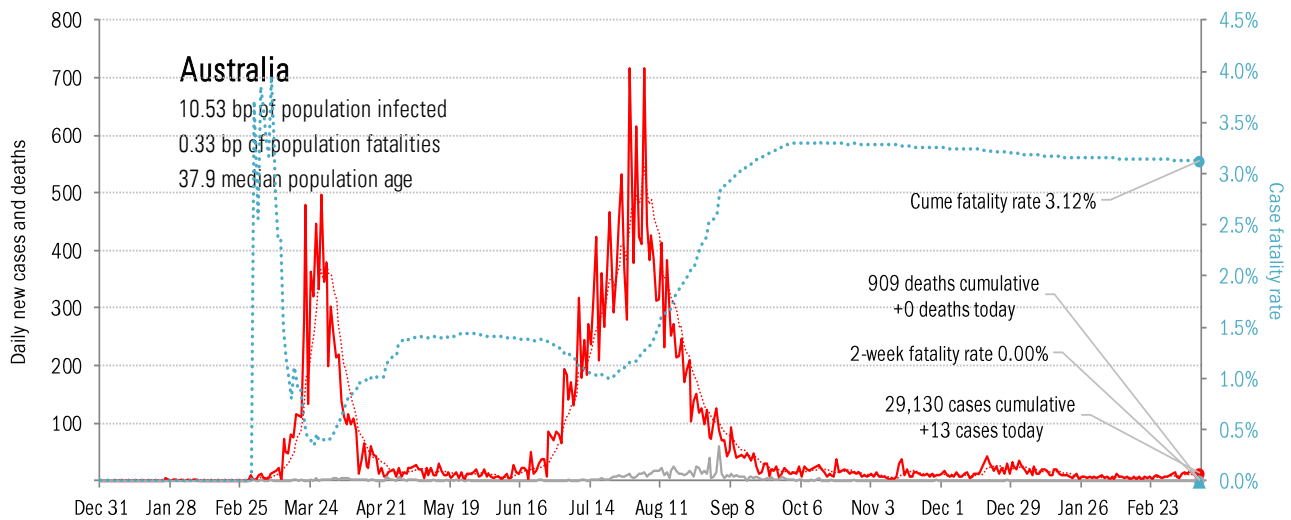
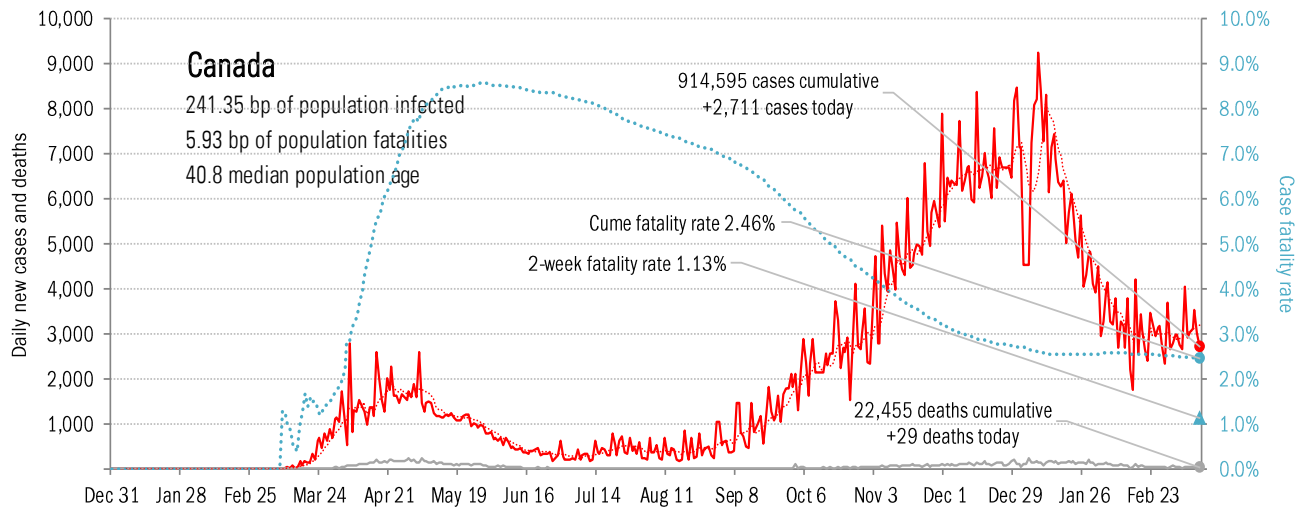
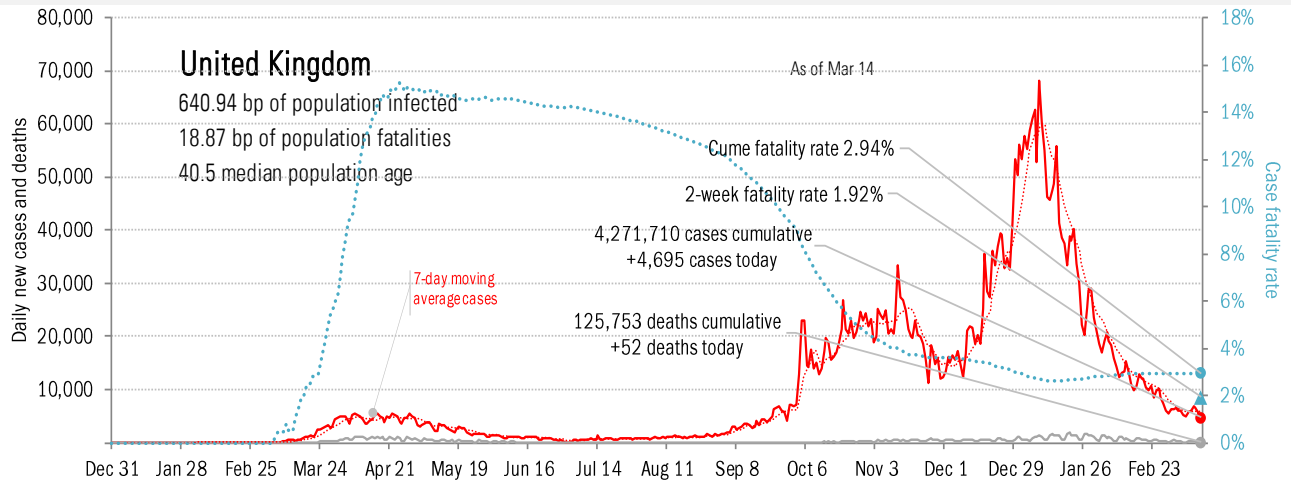
# Impact in the largest economies



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

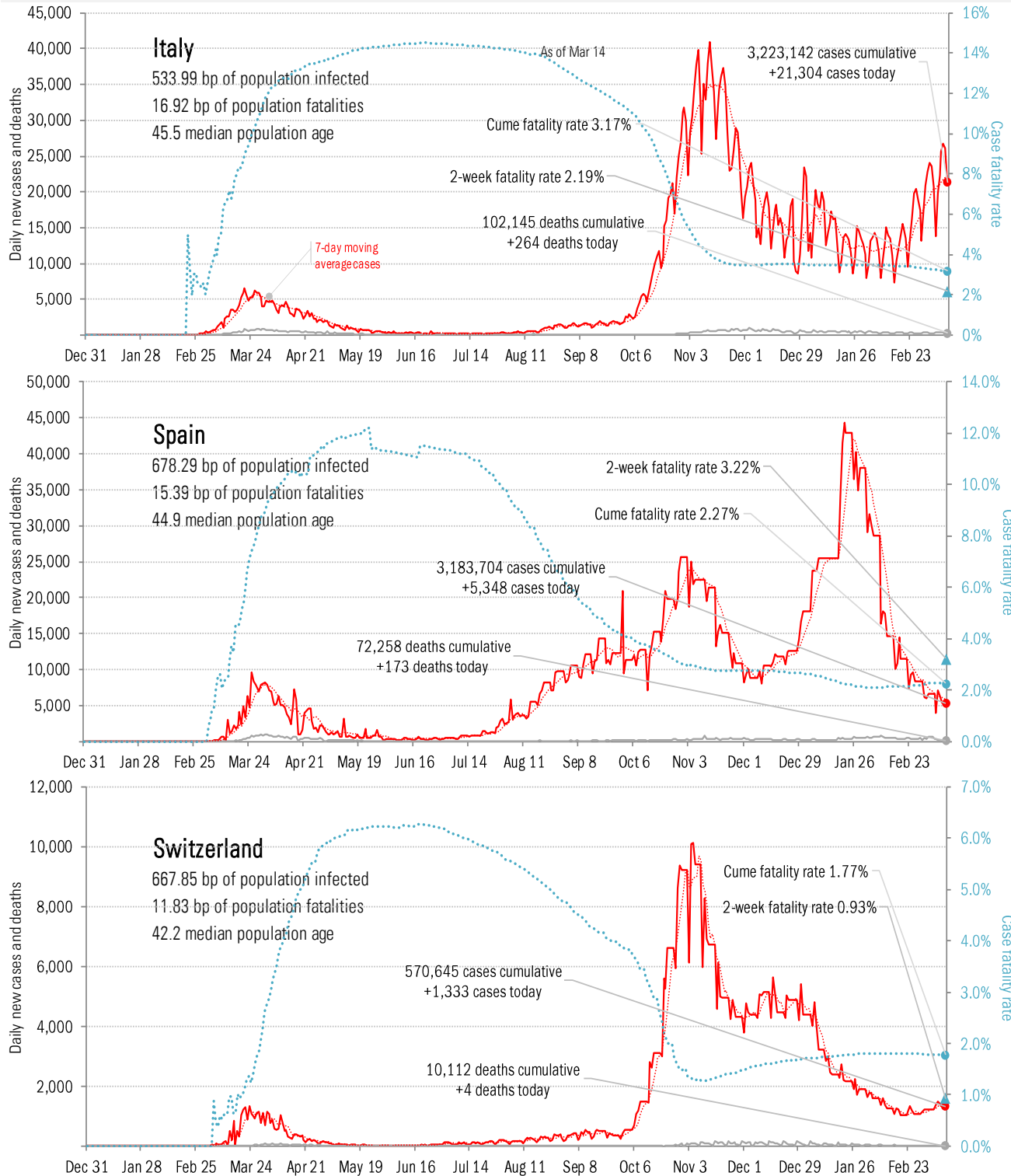


# Impact in The Anglosphere



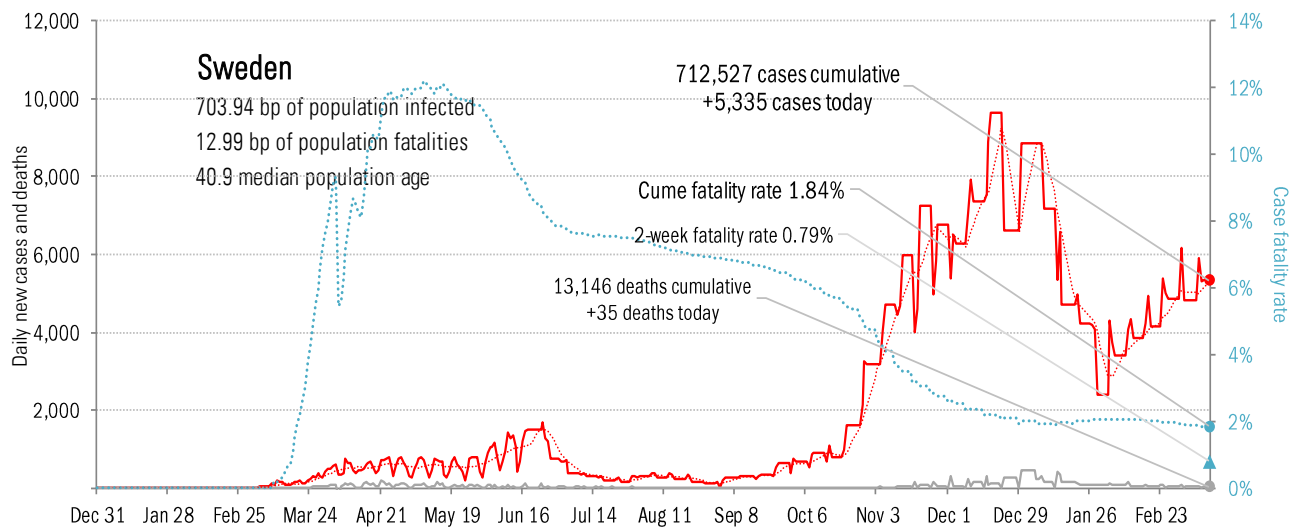
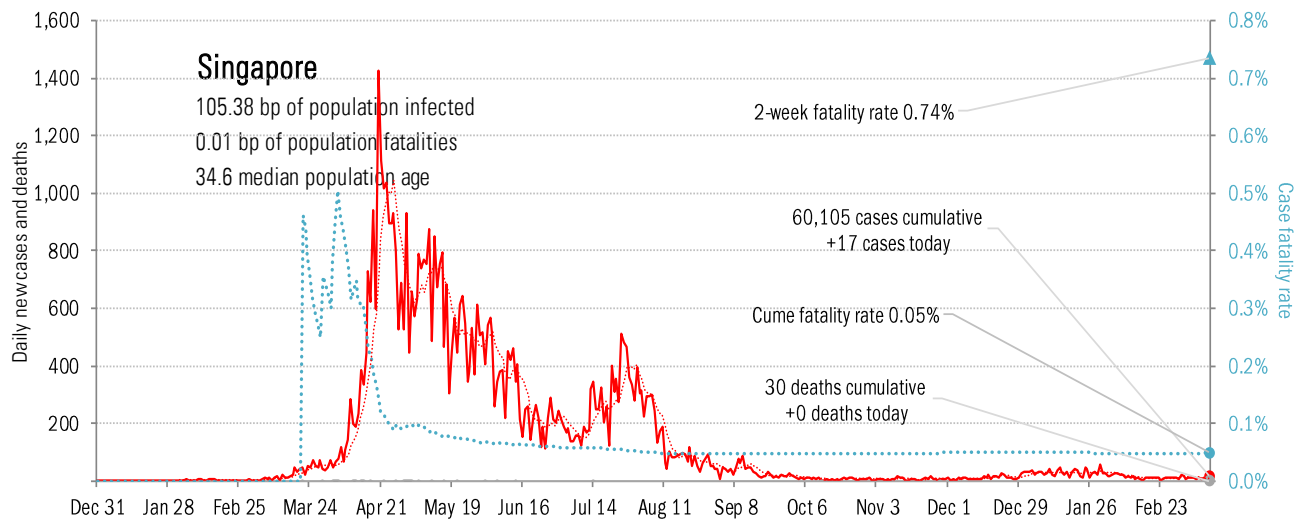
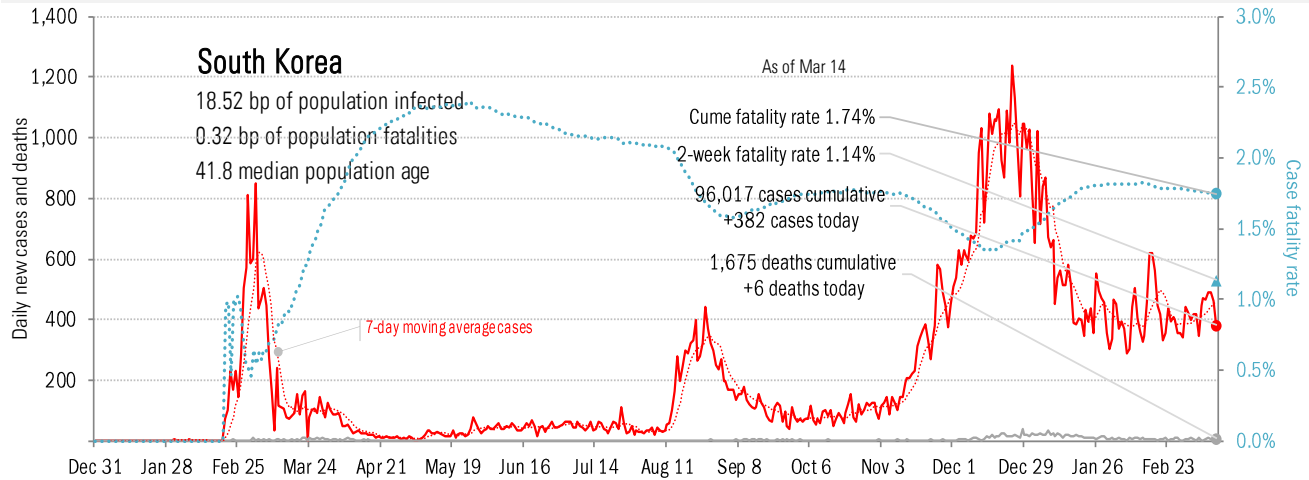
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in continental Europe



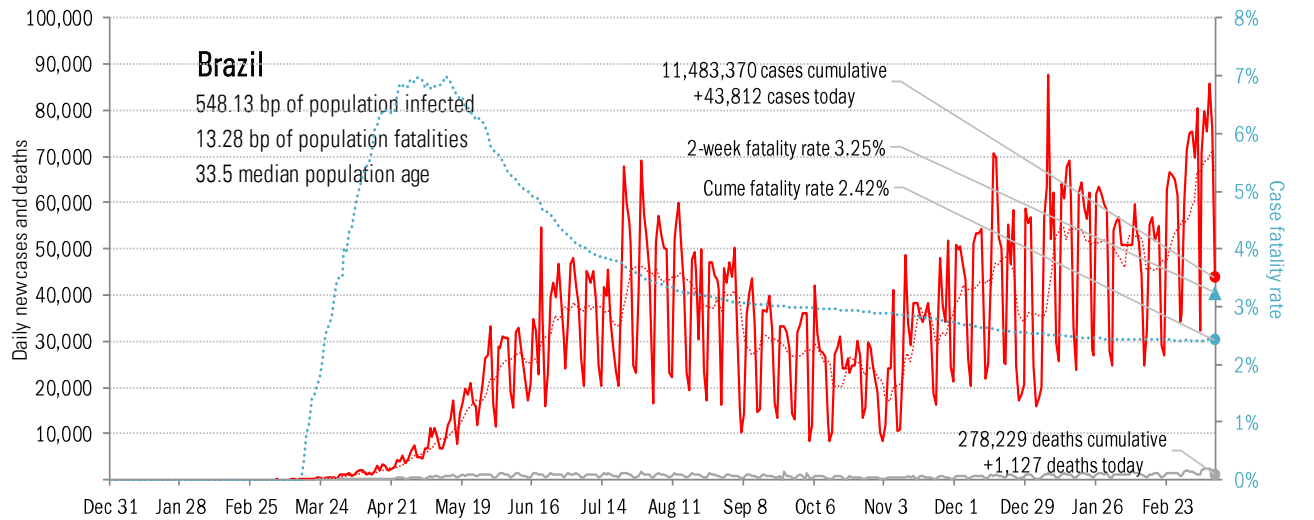
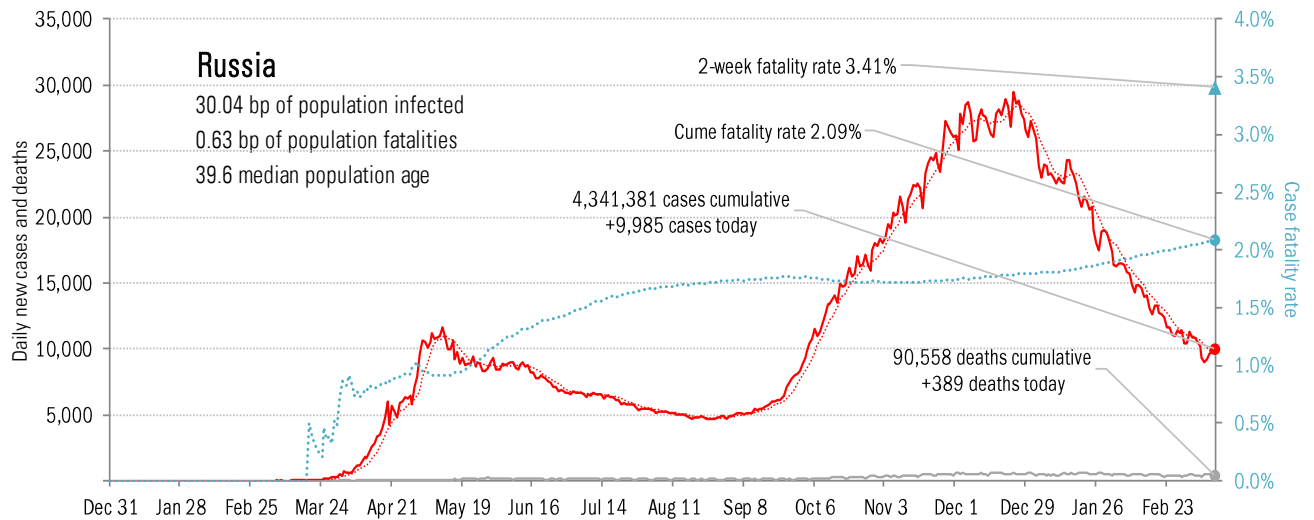
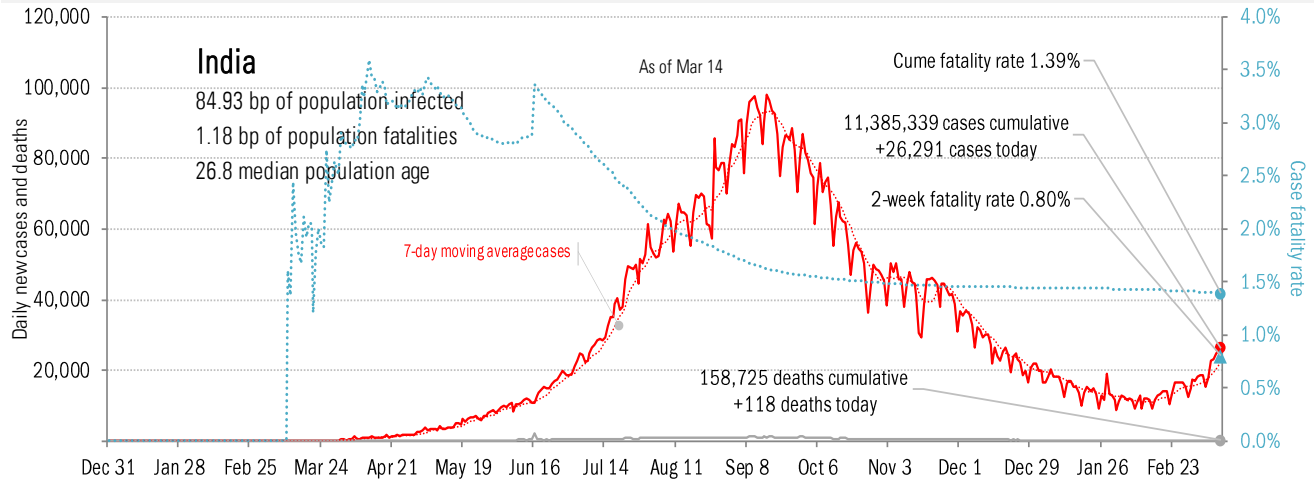
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



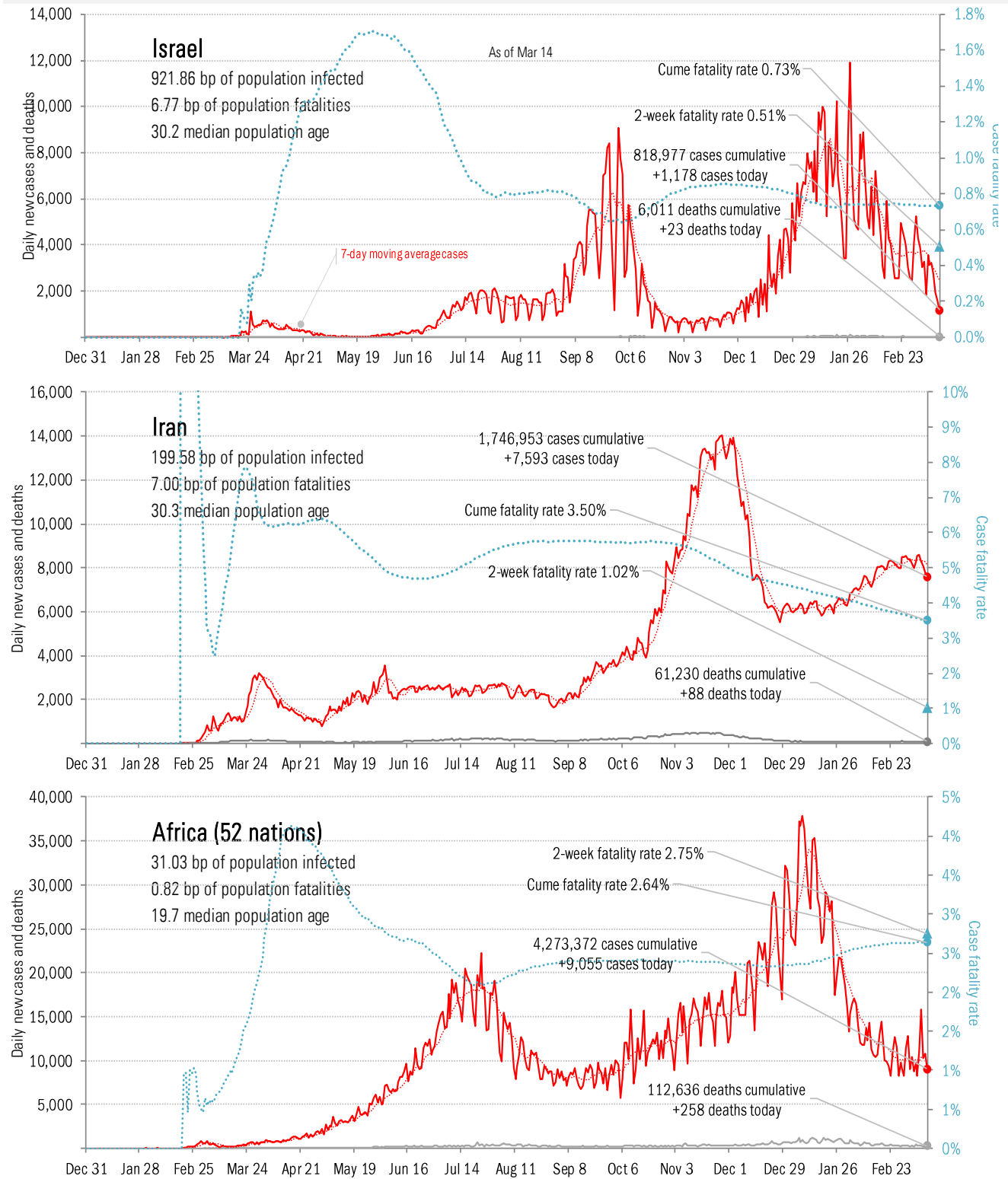
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



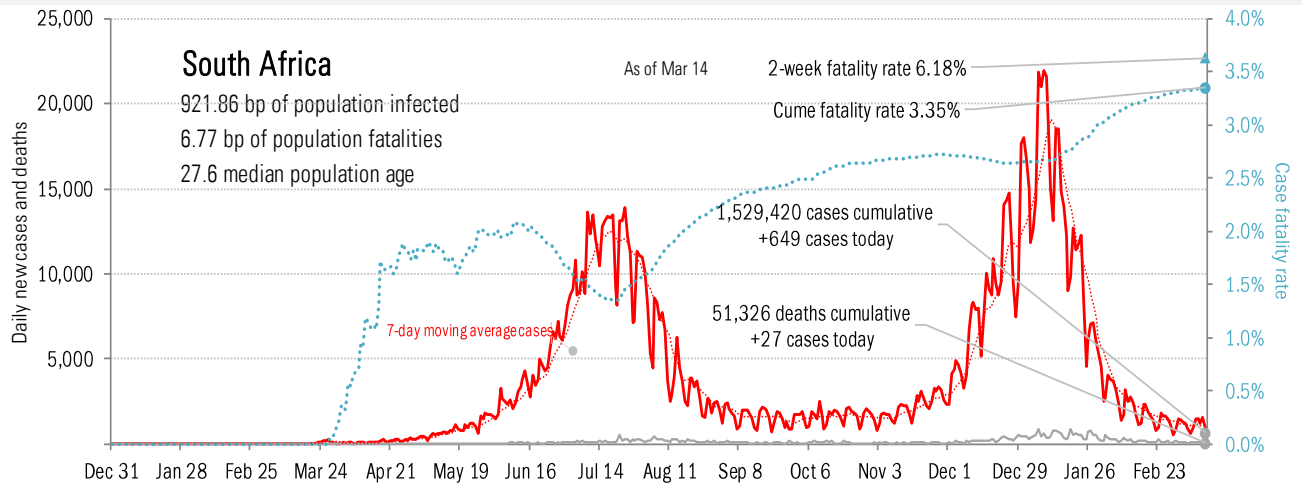
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

## Impact in Africa, continued



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