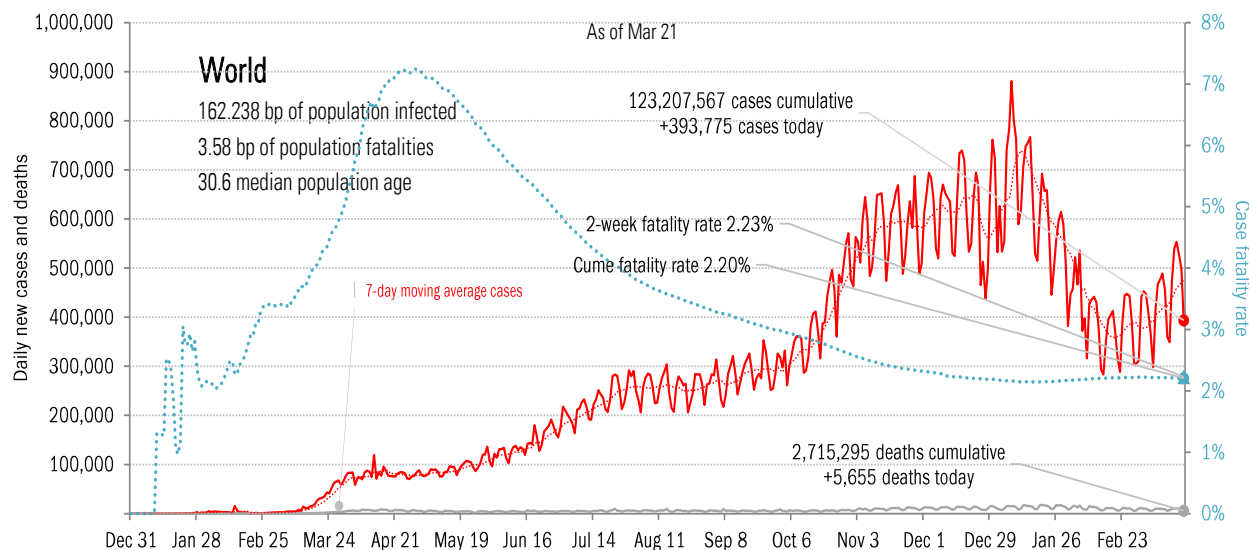
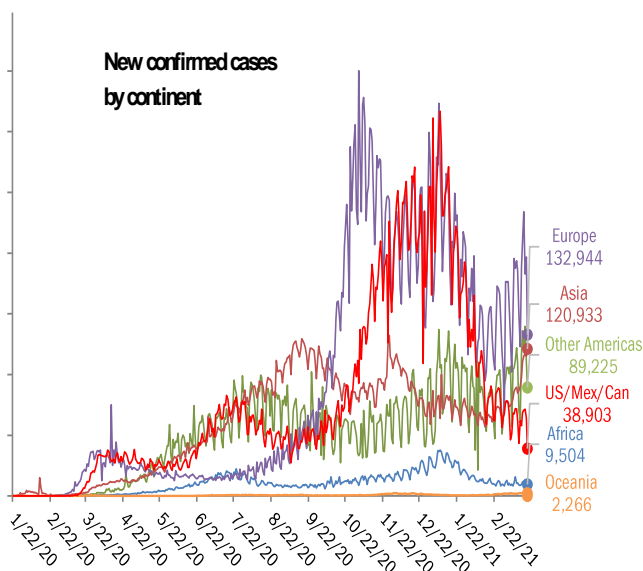


## Data Insights: Covid-2019 Monitor

Monday, March 22, 2021

### The global scorecard

The worst ten countries			
New cases		New Deaths	
Brazil	+47,774	Brazil	+1,290
India	+46,951	United States	+432
United States	+33,645	Russia	+367
Poland	+21,850	Peru	+301
Turkey	+20,428	Italy	+300
Italy	+20,045	India	+212
Peru	+14,681	Mexico	+209
Ukraine	+11,229	Hungary	+194
Hungary	+10,625	Ukraine	+170
Czechia	+10,141	Poland	+141
<b>+237,369</b>		<b>+3,616</b>	
World	<b>+393,775</b>	World	<b>+5,655</b>
Top ten	<b>60%</b>	Top ten	<b>64%</b>



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

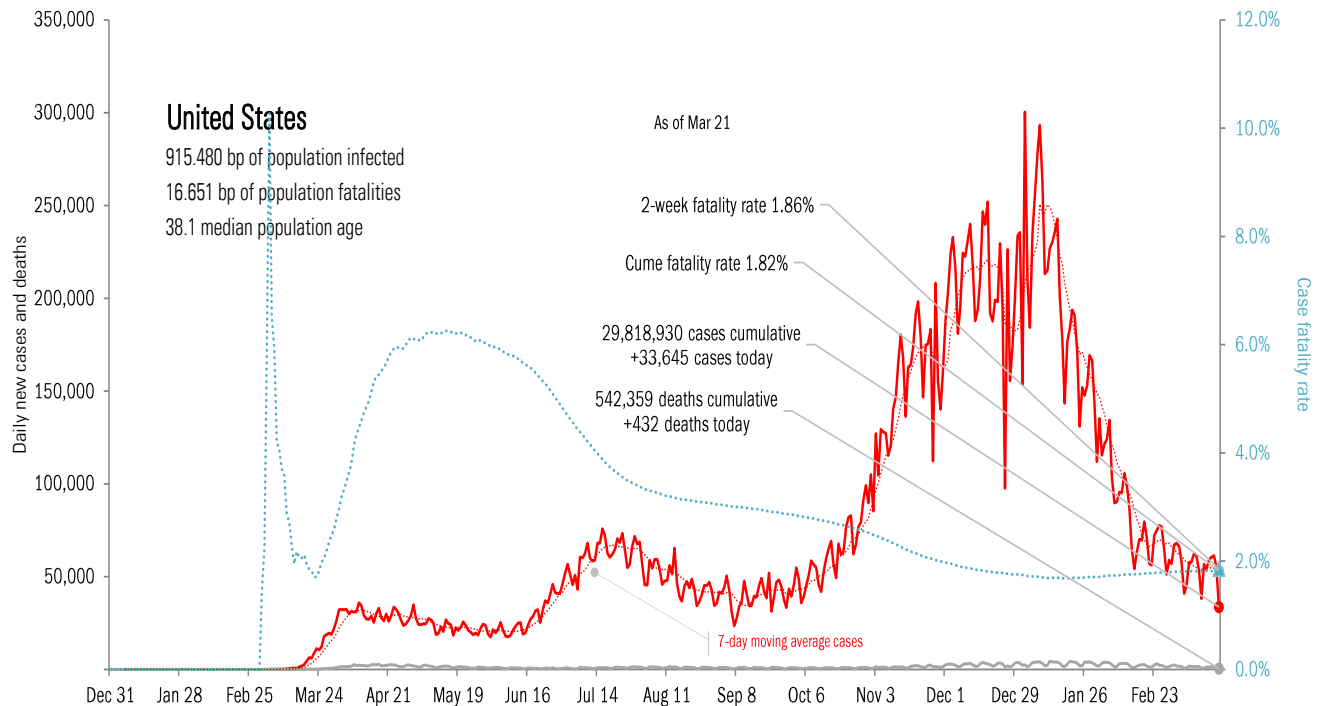
## The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
FL	+3,987		CA	+70		MI	+97		CA	3,641,105		CA	57,505		TX	222,778		R	94%	NY	19%
NY	+3,735		TX	+48		PA	+59		TX	2,754,616		NY	49,426		CA	219,763		ID	83%	MD	18%
NJ	+3,238		NJ	+40		FL	+52		FL	2,008,349		TX	47,346		FL	147,730		MA	82%	DC	16%
TX	+2,337		MA	+35		GA	+51		NY	1,782,769		FL	32,742		NY	109,577		MD	80%	TX	15%
PA	+1,944		SC	+30		NY	+32		IL	1,221,775		PA	24,796		GA	92,807		PA	80%	GA	14%
MA	+1,811		FL	+29		CH	+26		GA	1,045,694		NJ	24,174		CH	73,979		CT	79%	MS	14%
GA	+1,560		IL	+28		MN	+25		CH	999,750		IL	23,357		PA	71,396		MO	77%	NM	13%
IL	+1,449		NY	+25		CO	+15		PA	988,656		GA	18,530		KY	66,982		MI	77%	MO	12%
CA	+1,231		IN	+20		NJ	+12		NC	895,263		CH	18,339		IL	66,782		FL	77%	NJ	12%
SC	+1,192		KY	+18		IL	+11		NJ	865,886		MI	16,906		AZ	57,653		DC	77%	ID	12%
+22,484			+343			+380			16,203,863			313,121			1,129,447						
All states	+33,645			+432			+142		All states	29,818,930			542,359			2,007,777		All states	70%		67%
Top ten	67%			79%			268%		Top ten	54%			58%			56%		Median	71%		9%

Some states not reporting

## Five most improved US states

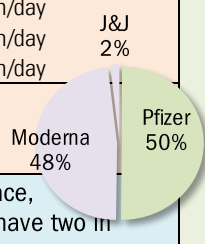
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-3,255	GA	-66	TX	-64	RI	+80 bp
NY	-2,932	TX	-52	NC	-27	SD	+60 bp
NC	-2,034	MI	-49	WA	-24	UT	+59 bp
NJ	-1,671	NY	-41	TN	-17	NM	+58 bp
PA	-1,659	FL	-33	NJ	-16	IA	+55 bp



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
164.31 million doses distributed	+0.00 million/day	United States 13.2%
130.01 million doses administered	+3.15 million/day	United Kingdom 3.3%
84.56 million persons partially immunized	+2.11 million/day	France 3.6%
46.13 million persons fully immunized	+1.15 million/day	Spain 4.0%
7.66 million shots long-term care residents/staff	+0.01 million/day	Germany 3.9%
<b>79.1% of distributed doses administered</b>		Italy 4.1%
<b>25.3% of US pop partial</b>	<b>13.8% full immunity</b>	Australia 0.5%
<b>100% of LTC partial</b>	<b>62.5% full immunity</b>	Israel 52.7%



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

**167 days**  
by Sep 4, 2021

US will achieve herd immunity in  
**65 days**  
by May 24, 2021

Global data differs due to sources

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

<b>AK</b>
71.2%
31.2%
20.0%

<b>ME</b>
50.6%
27.8%
15.3%

<b>WI</b>
44.9%
26.5%
15.3%

<b>VT</b>
55.0%
28.4%
14.9%

<b>NH</b>
47.9%
27.7%
13.6%

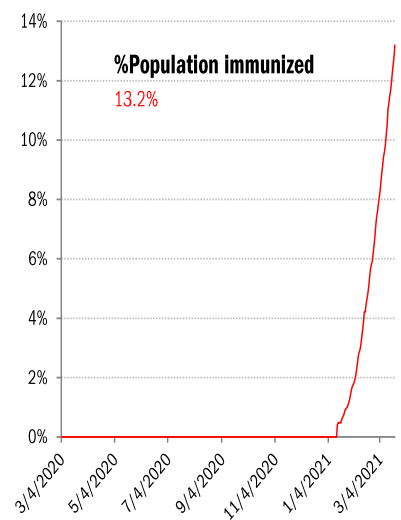
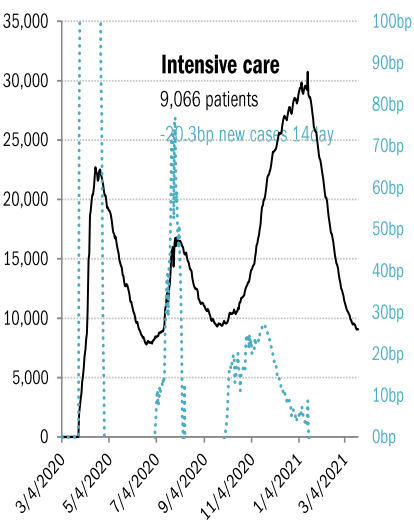
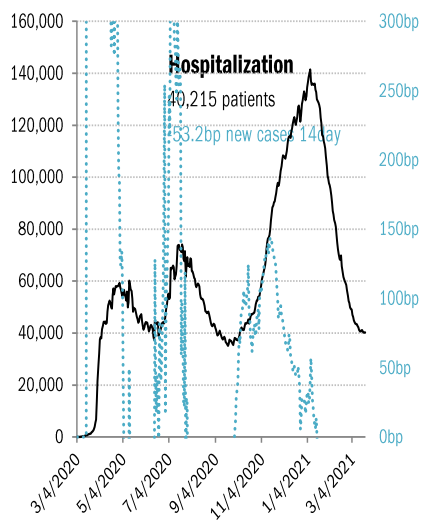
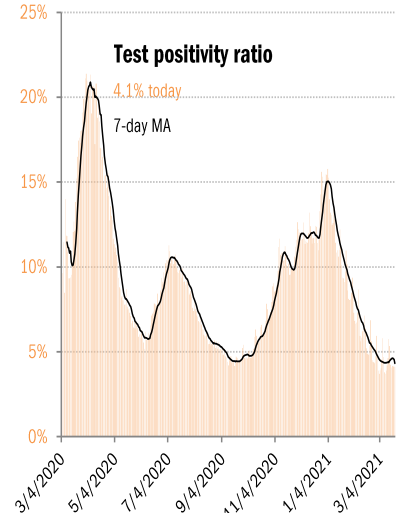
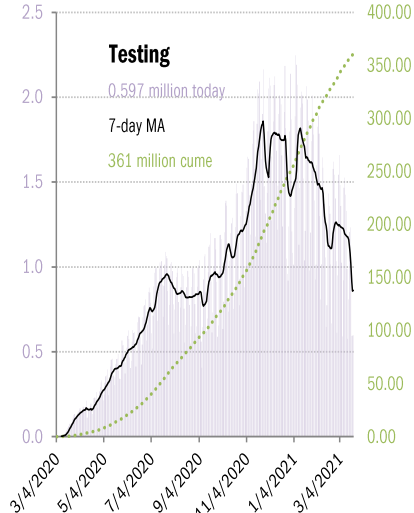
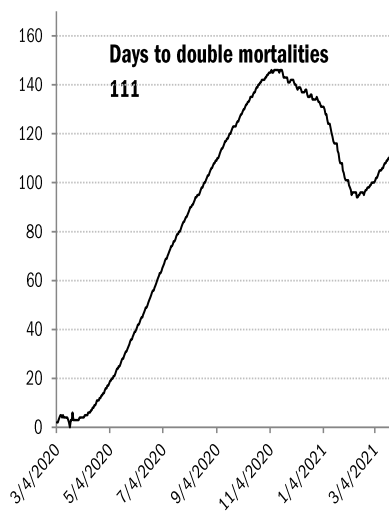
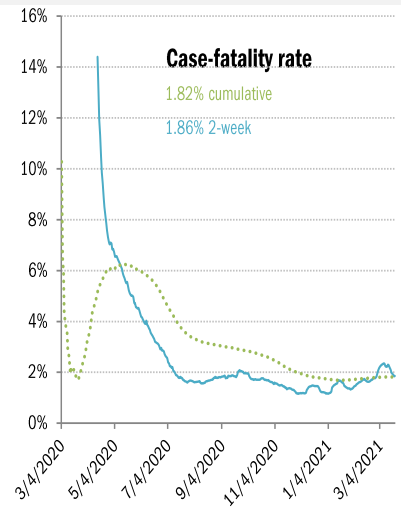
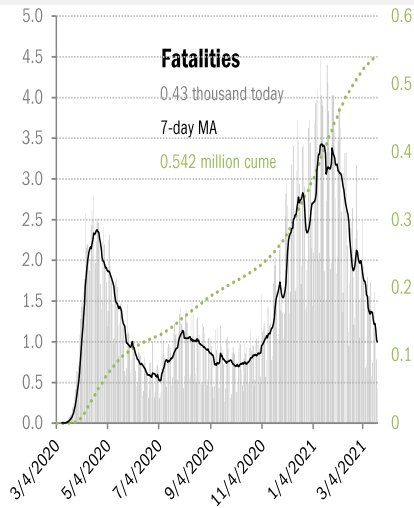
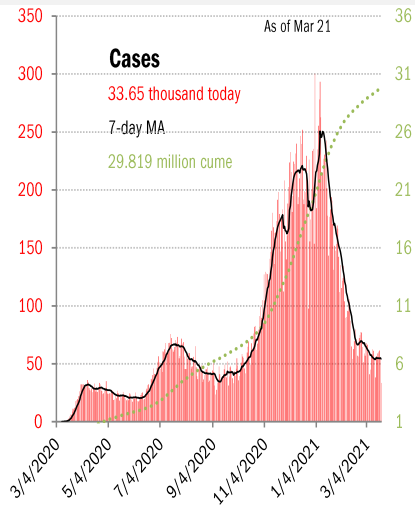
<b>WA</b>	<b>ID</b>	<b>MT</b>	<b>ND</b>	<b>MN</b>	<b>IL</b>	<b>MI</b>	<b>NY</b>	<b>MA</b>		
47.1%	43.9%	51.6%	51.3%	45.2%	46.6%	45.5%	49.3%	48.2%		
25.1%	22.1%	26.4%	28.7%	26.8%	25.6%	24.0%	25.6%	28.6%		
14.4%	13.7%	15.7%	16.8%	15.2%	14.0%	13.7%	12.4%	15.2%		
<b>OR</b>	<b>NV</b>	<b>WY</b>	<b>SD</b>	<b>IA</b>	<b>IN</b>	<b>OH</b>	<b>PA</b>	<b>NJ</b>	<b>CT</b>	<b>RI</b>
45.9%	43.8%	54.3%	58.9%	47.0%	44.0%	47.4%	48.9%	46.7%	53.3%	48.5%
23.8%	23.7%	23.3%	30.2%	26.4%	21.8%	24.0%	24.5%	27.9%	29.7%	28.9%
13.7%	13.3%	14.8%	18.5%	16.0%	14.2%	13.9%	12.5%	14.5%	16.5%	14.8%
<b>CA</b>	<b>UT</b>	<b>CO</b>	<b>NE</b>	<b>MO</b>	<b>KY</b>	<b>WV</b>	<b>VA</b>	<b>MD</b>	<b>DE</b>	
47.8%	41.2%	46.6%	48.7%	46.4%	46.4%	52.4%	44.8%	47.4%	49.9%	
24.9%	21.7%	24.5%	25.7%	22.3%	26.8%	26.4%	25.5%	25.6%	25.3%	
12.6%	9.6%	15.1%	15.0%	12.0%	13.8%	15.9%	14.1%	13.9%	13.5%	
<b>AZ</b>	<b>NM</b>	<b>KS</b>	<b>AR</b>	<b>TN</b>	<b>NC</b>	<b>SC</b>	<b>DC</b>			
47.6%	56.5%	49.8%	48.6%	46.1%	47.0%	43.4%	63.1%			
24.8%	33.0%	25.3%	22.2%	21.0%	24.9%	22.7%	20.9%			
14.1%	20.0%	13.3%	11.4%	11.0%	13.7%	12.5%	10.4%			
<b>OK</b>	<b>LA</b>	<b>MS</b>	<b>AL</b>	<b>GA</b>						
56.6%	46.6%	47.7%	44.4%	42.9%						
27.0%	22.7%	21.9%	19.8%	18.8%						
14.5%	13.3%	12.3%	11.6%	10.9%						
<b>HI</b>	<b>TX</b>	<b>FL</b>	<b>PR</b>							
54.2%	43.5%	49.8%	51.7%							
27.3%	21.8%	23.8%	17.8%							
16.3%	10.8%	13.3%	10.3%							

As of Mar 21

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

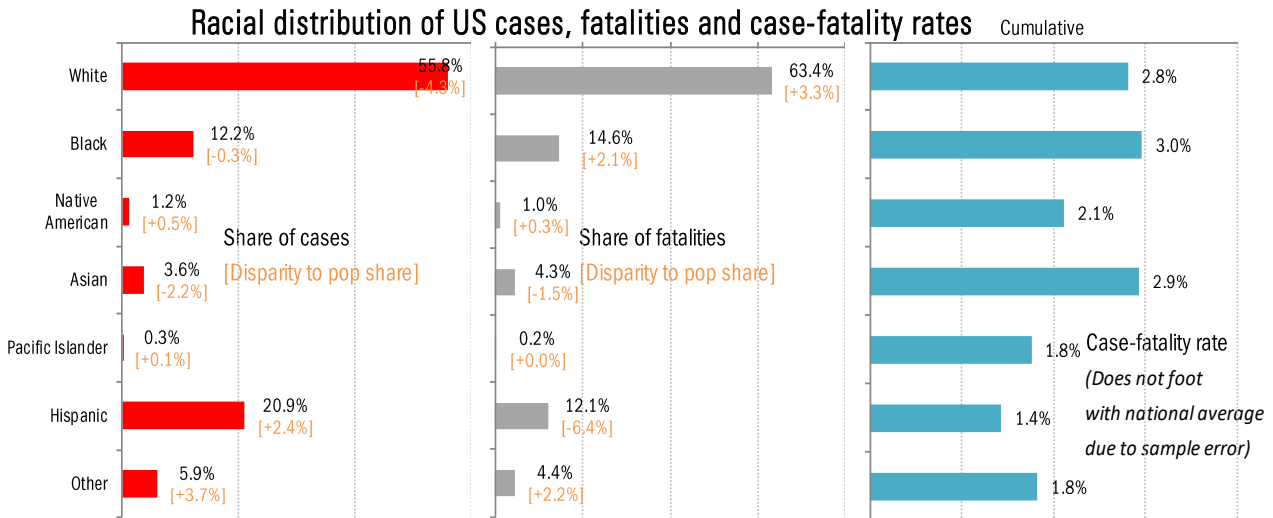
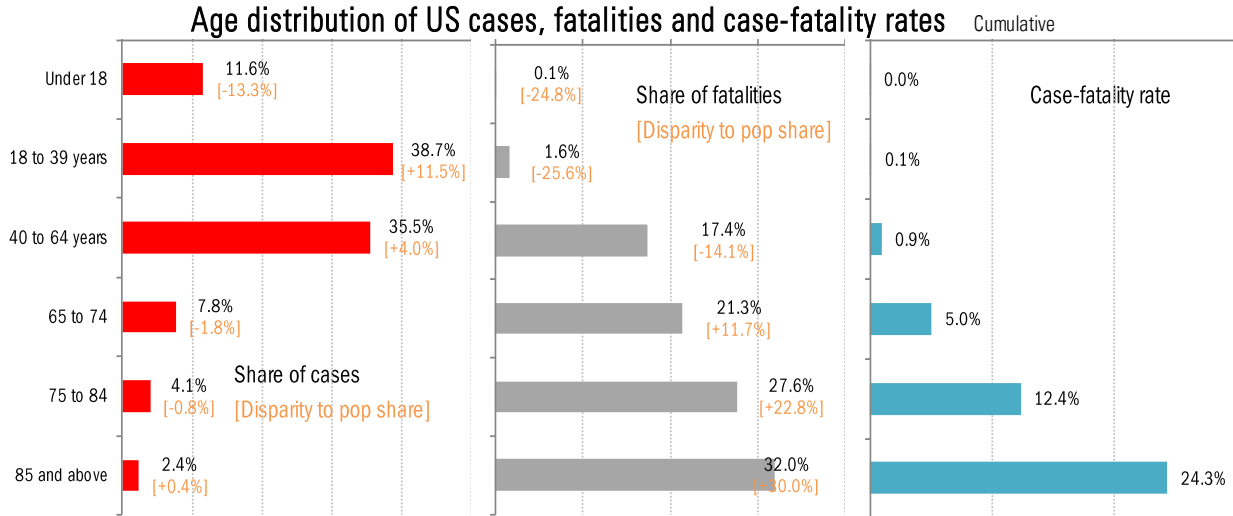
# US deep-dive

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

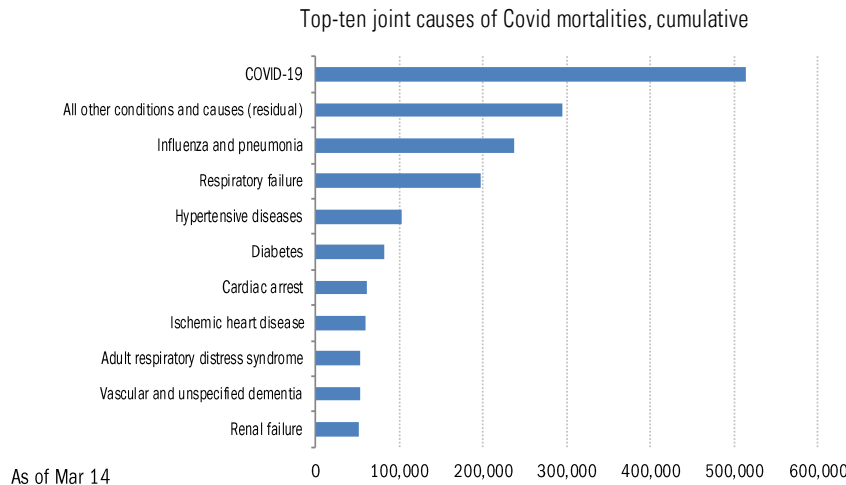


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

# 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

[Where's the Science Behind CDC's 6-Foot Social-Distance Decree?](#)

Scott Gottlieb  
*Wall Street Journal*  
March 21, 2021

[Mike Pompeo talks to the Washington Examiner about China, WHO, COVID, and the Wuhan lab](#)

Jerry Dunleavy  
*Washington Examiner*  
March 20, 2021

[Israeli court upholds school's barring of COVID refusenik teacher](#)

*Reuters*  
March 21, 2021

[Visualized: the World's Deadliest Pandemics by Population Impact](#)

Carmen Ang  
*Visual Capitalist*  
March 17, 2021

[Miami Beach declares state of emergency over spring break crowds](#)

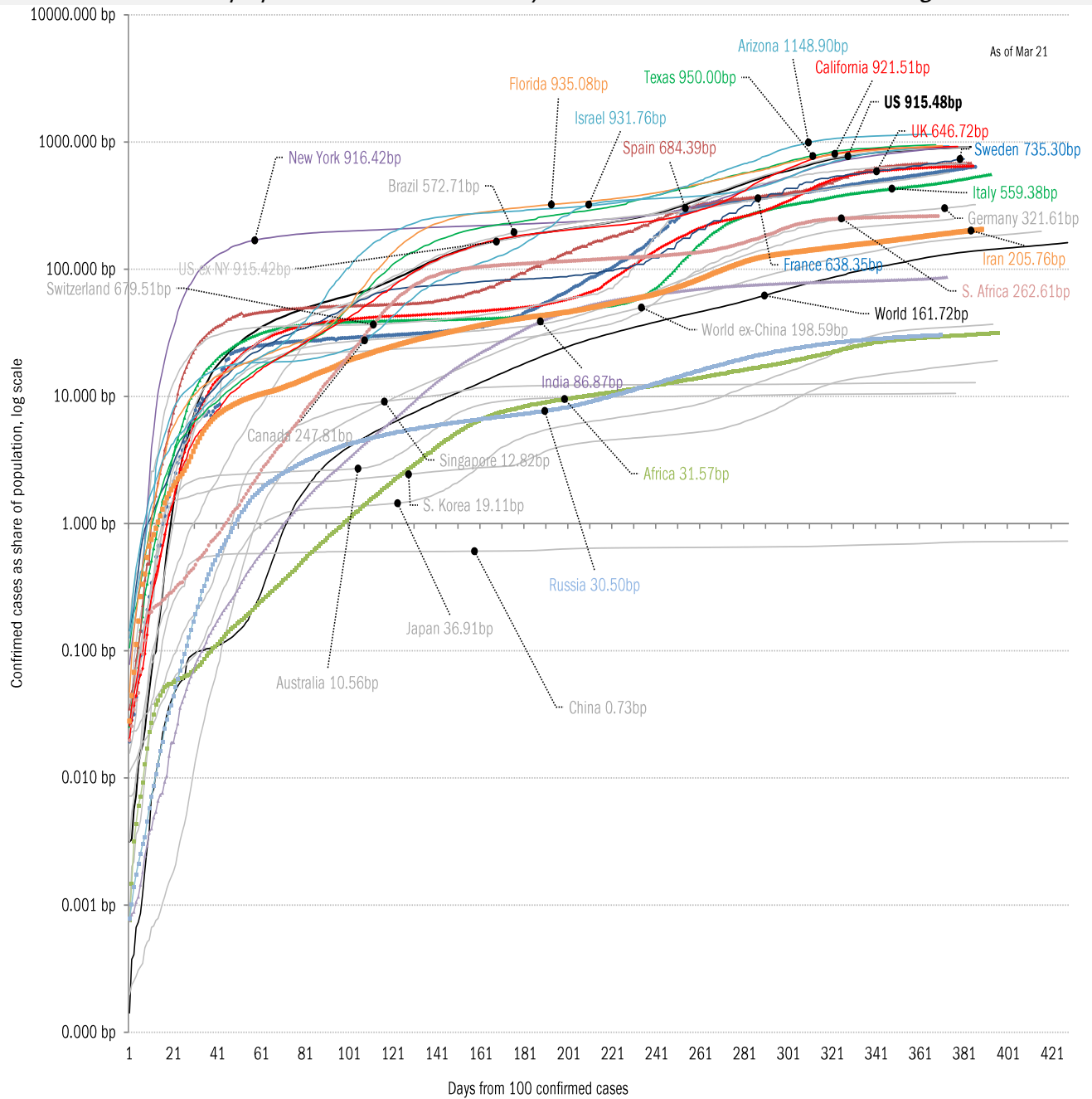
Dennis Romero  
*NBC News*  
March 20, 2021

## Meme of day



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

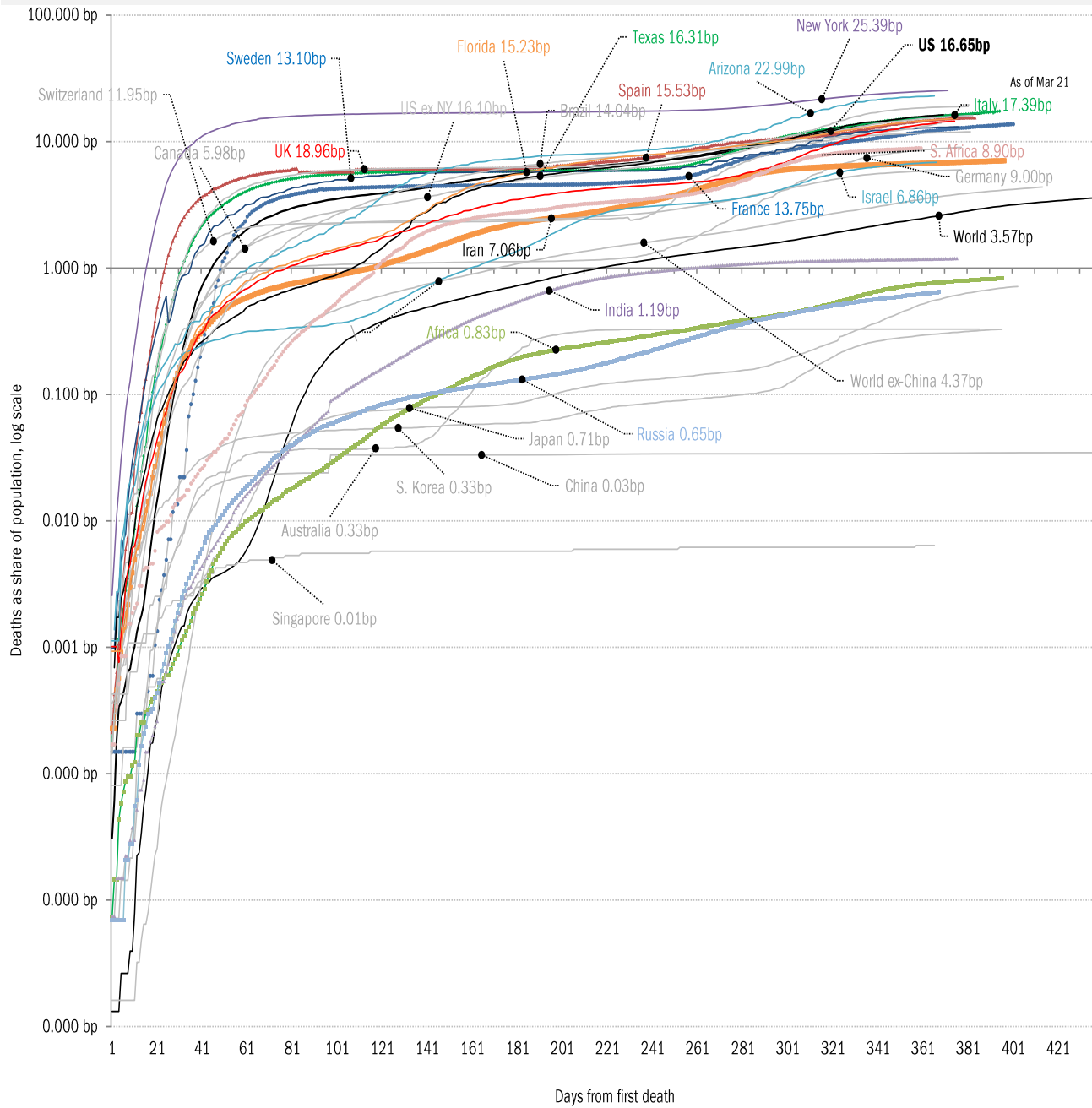
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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

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

## Share of deceased population from day of first fatality



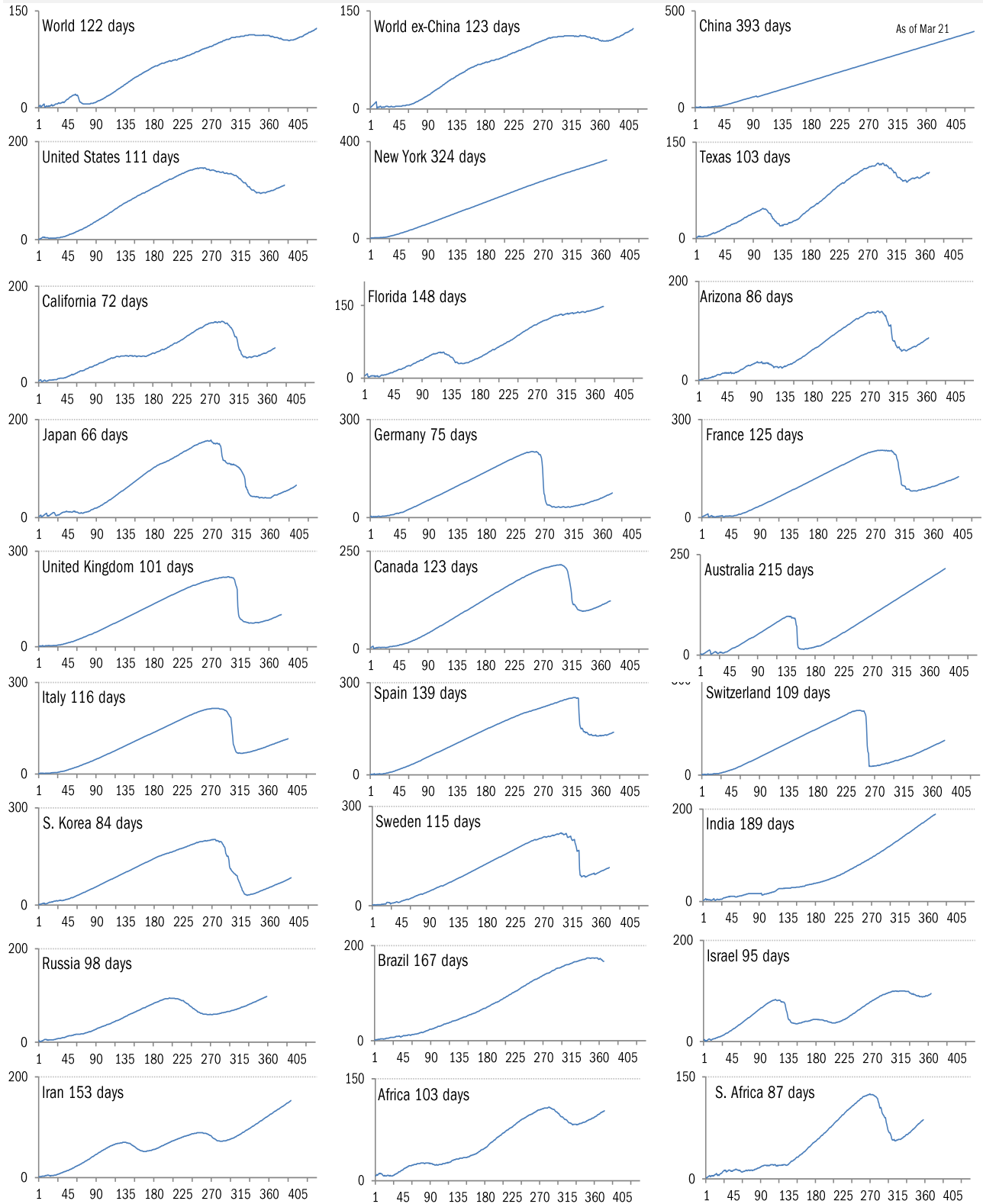
Source: [Johns Hopkins](#), TrendMacro calculations



# "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

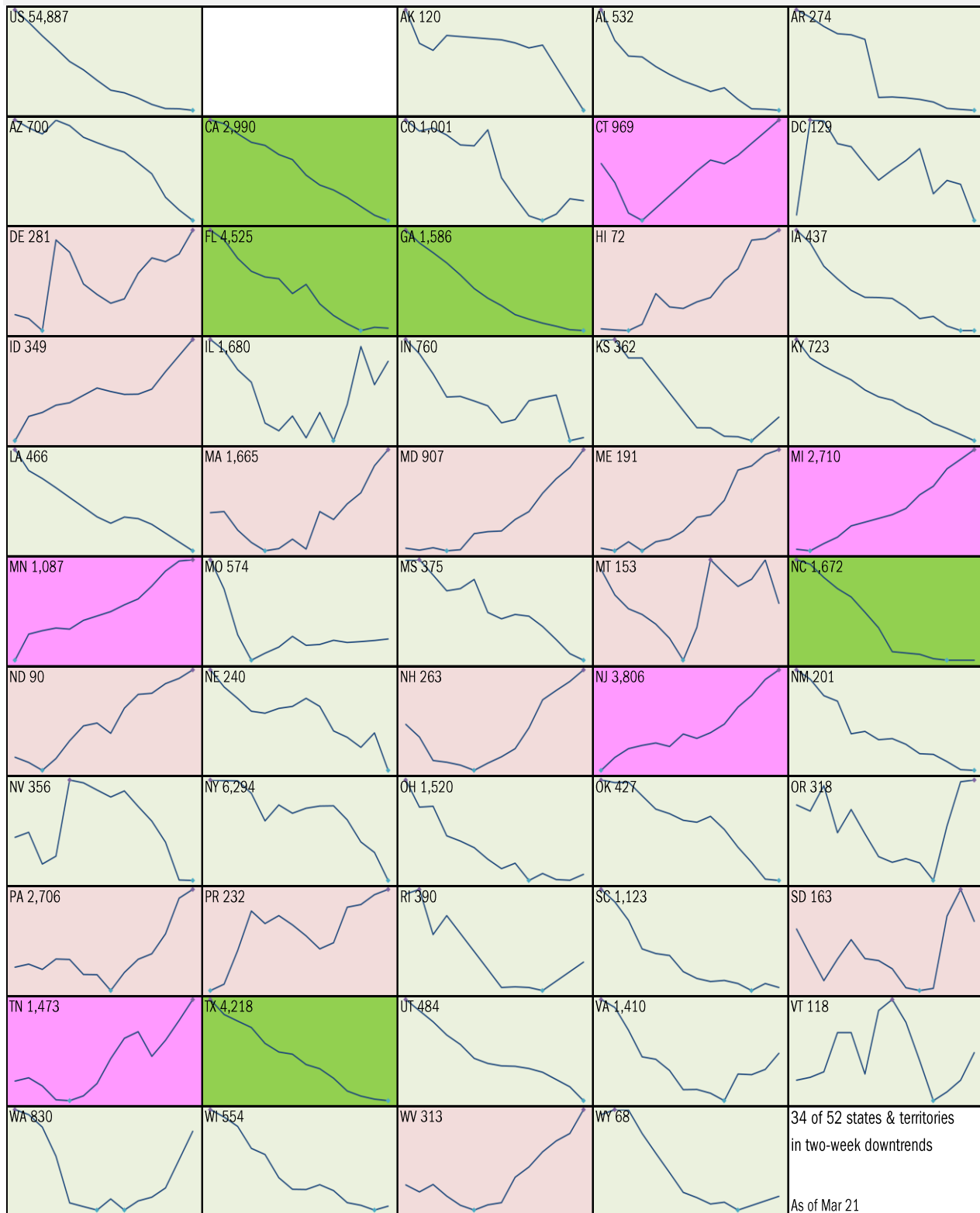


Source: [Johns Hopkins](#), TrendMacro calculations

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

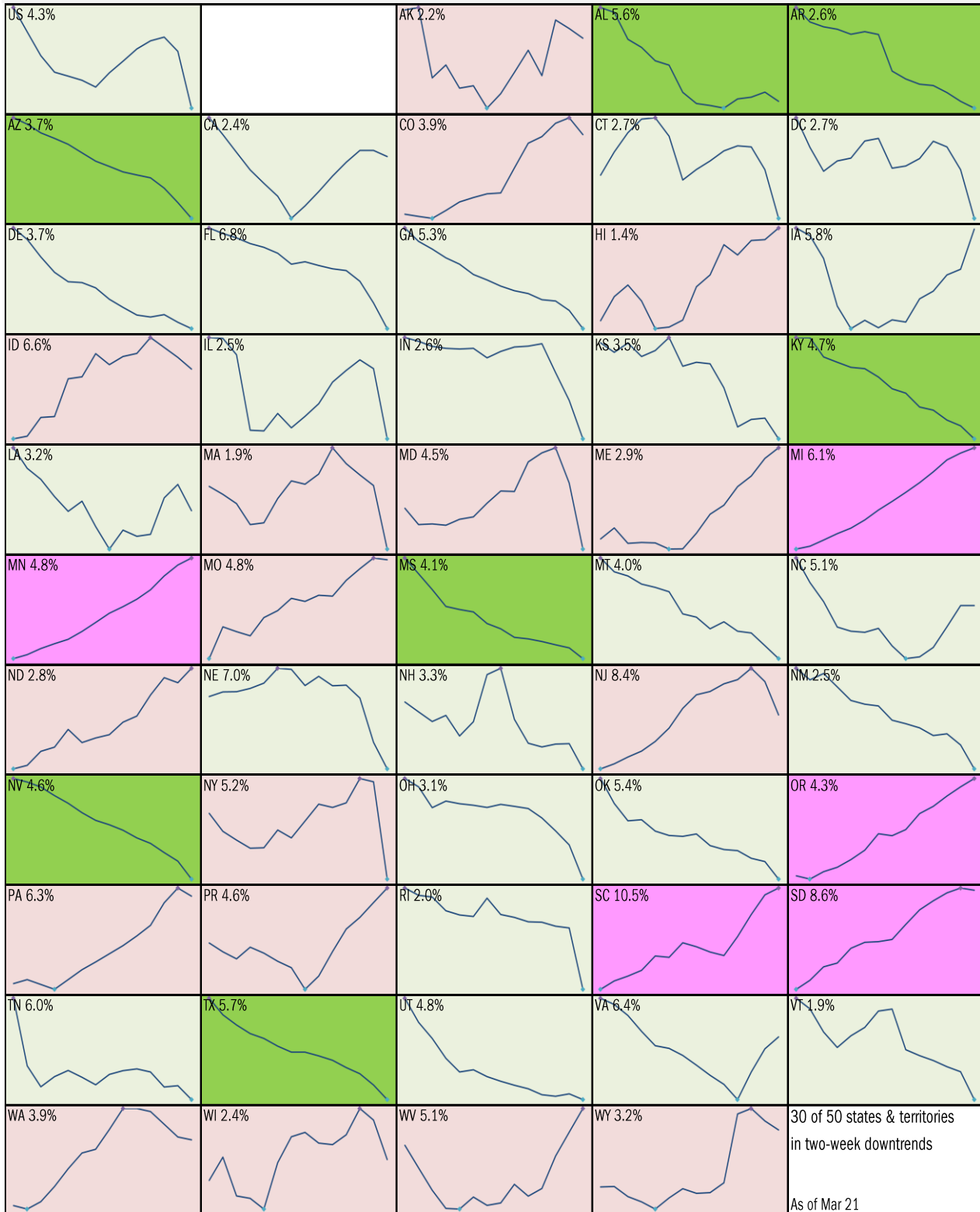


Source: [Johns Hopkins](#), TrendMacro calculations

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

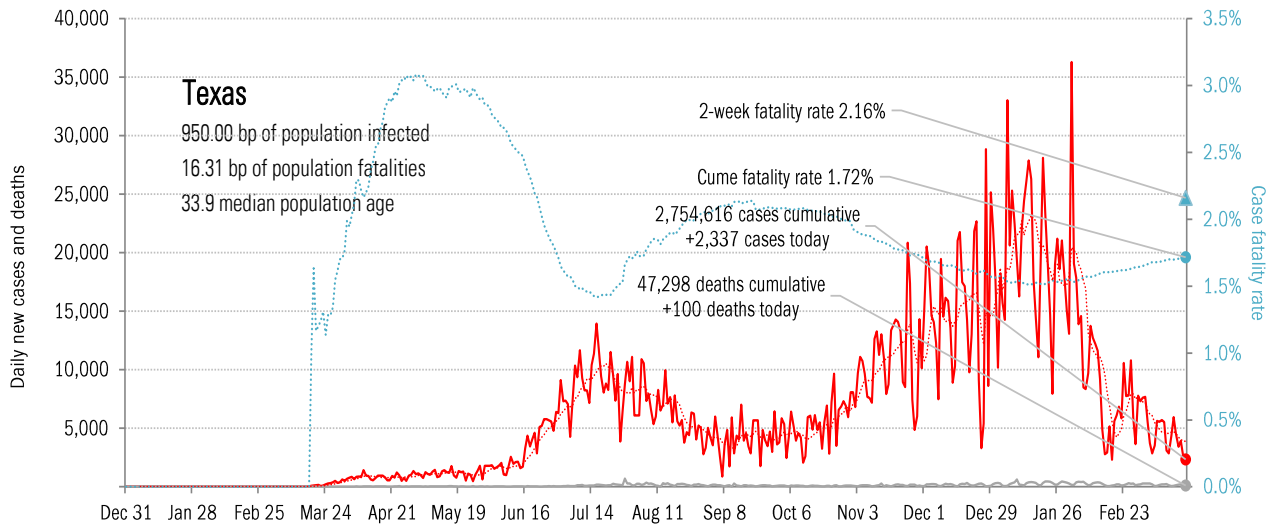
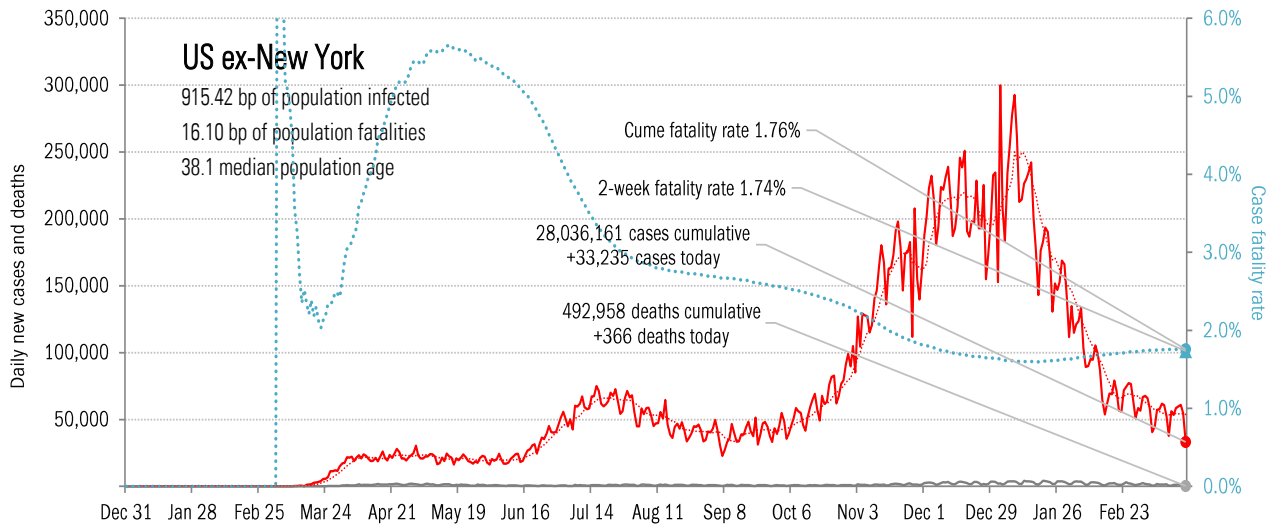
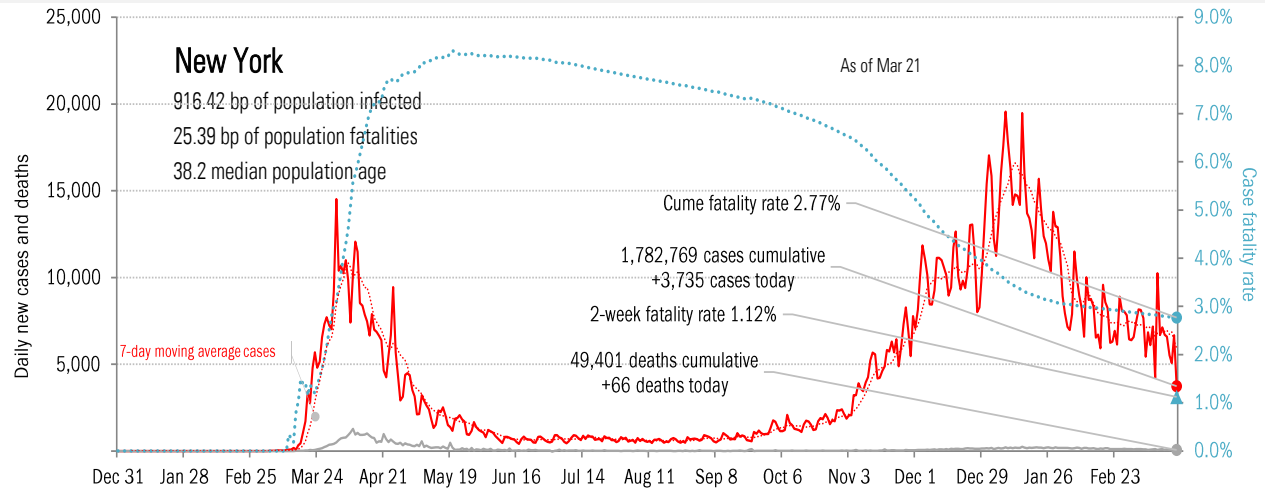
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



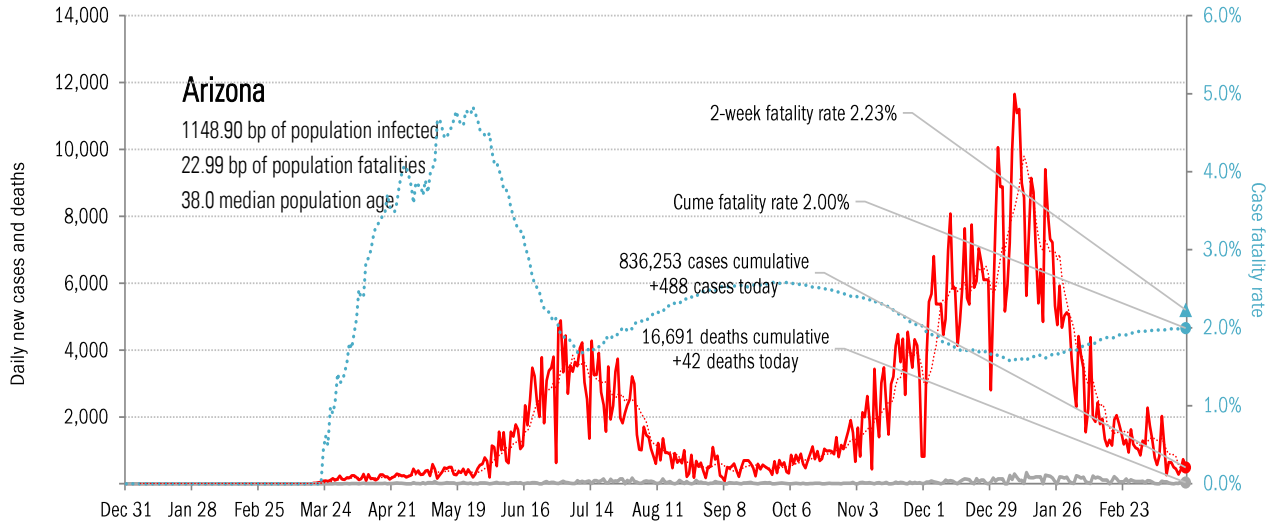
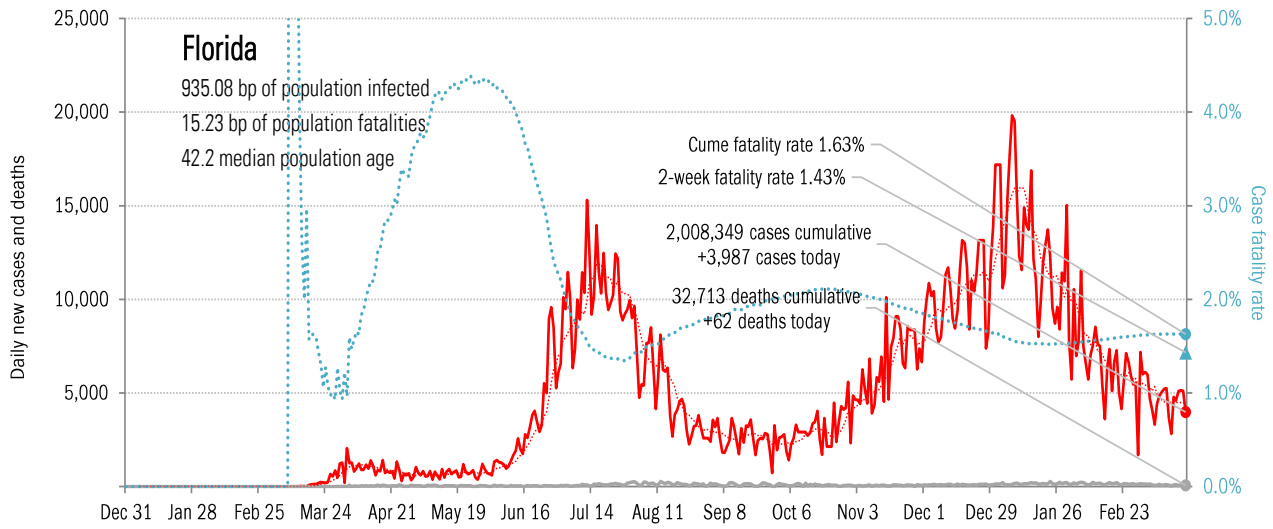
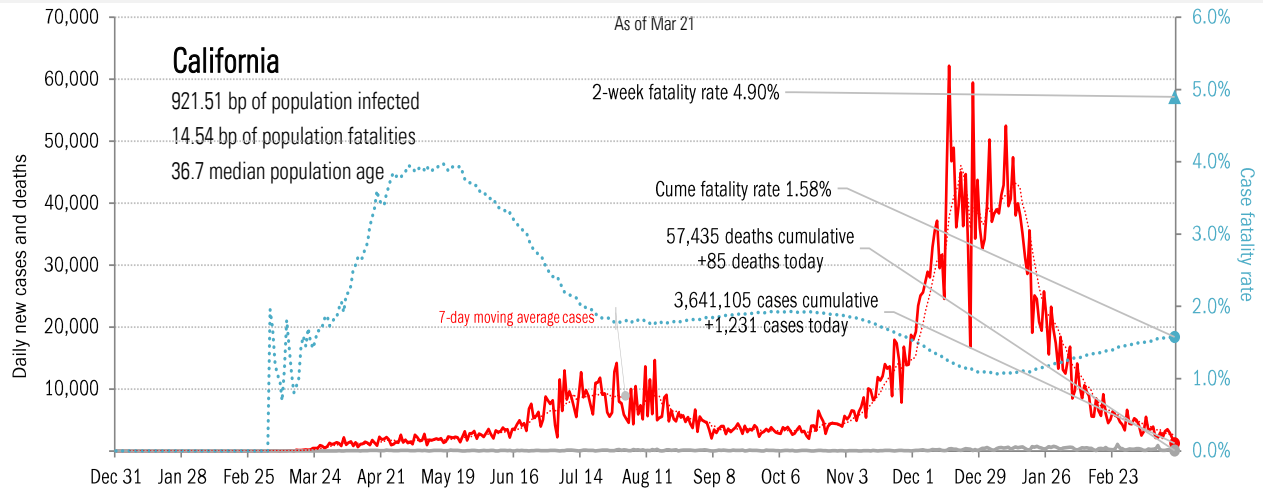
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



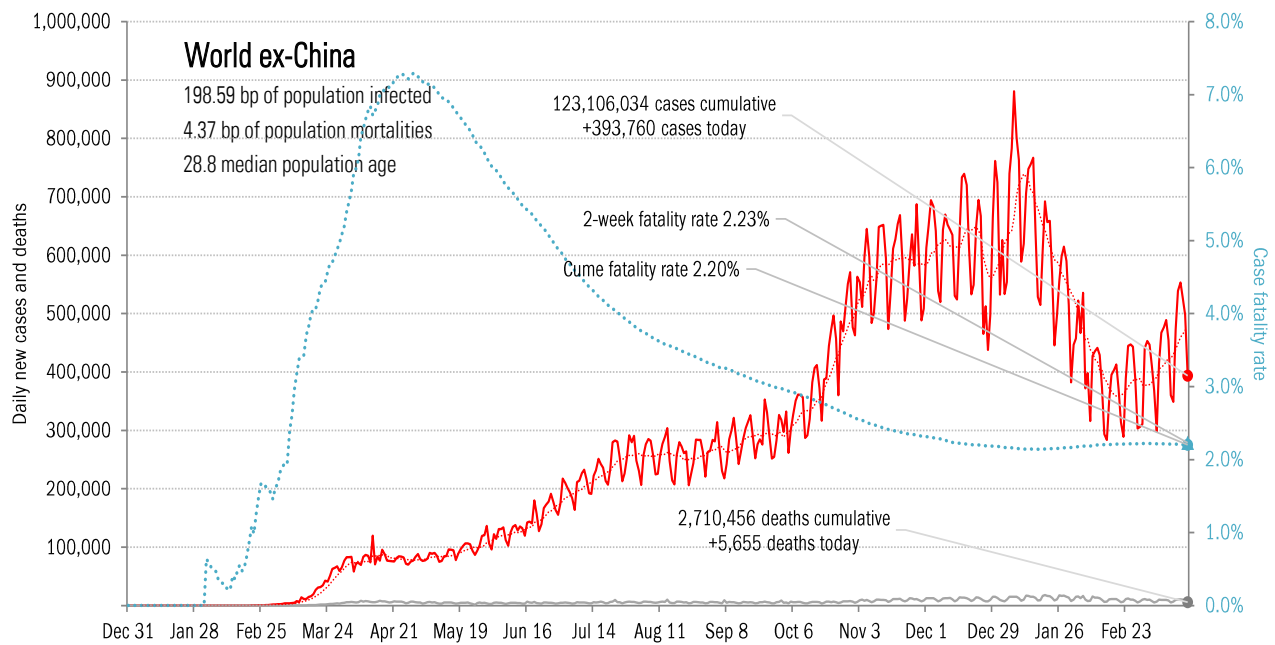
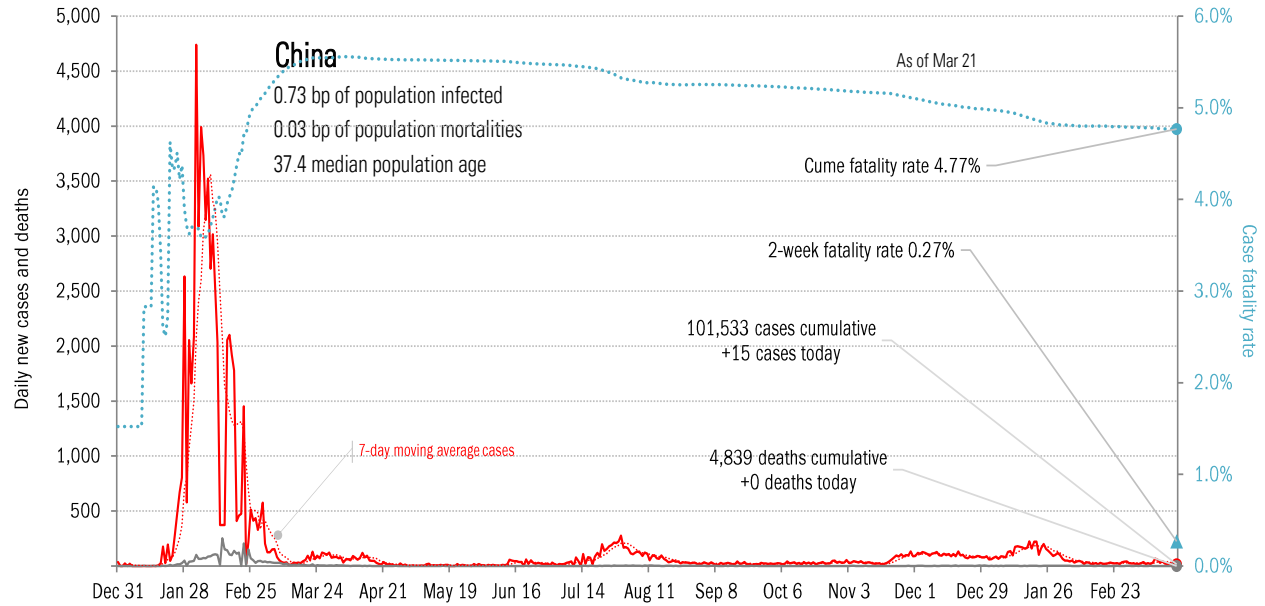
Source: [Johns Hopkins](#), TrendMacro calculations

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



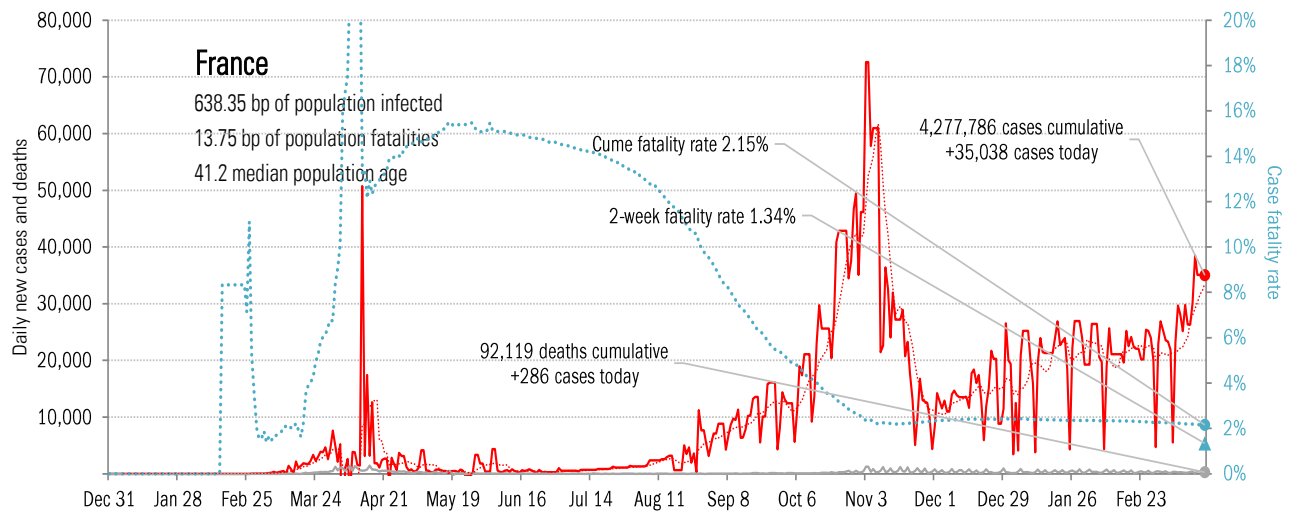
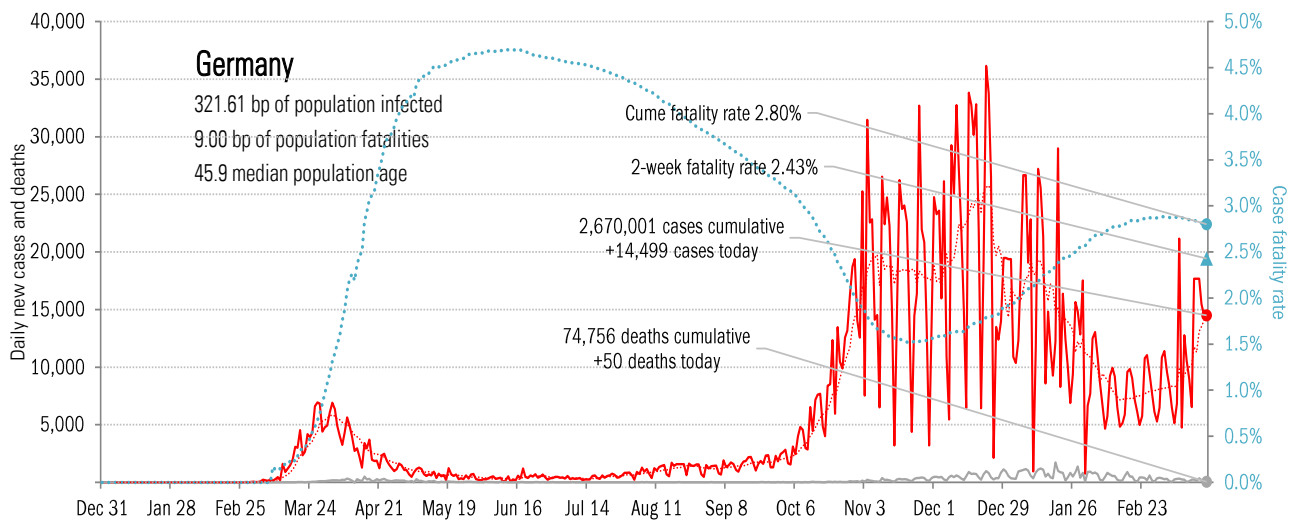
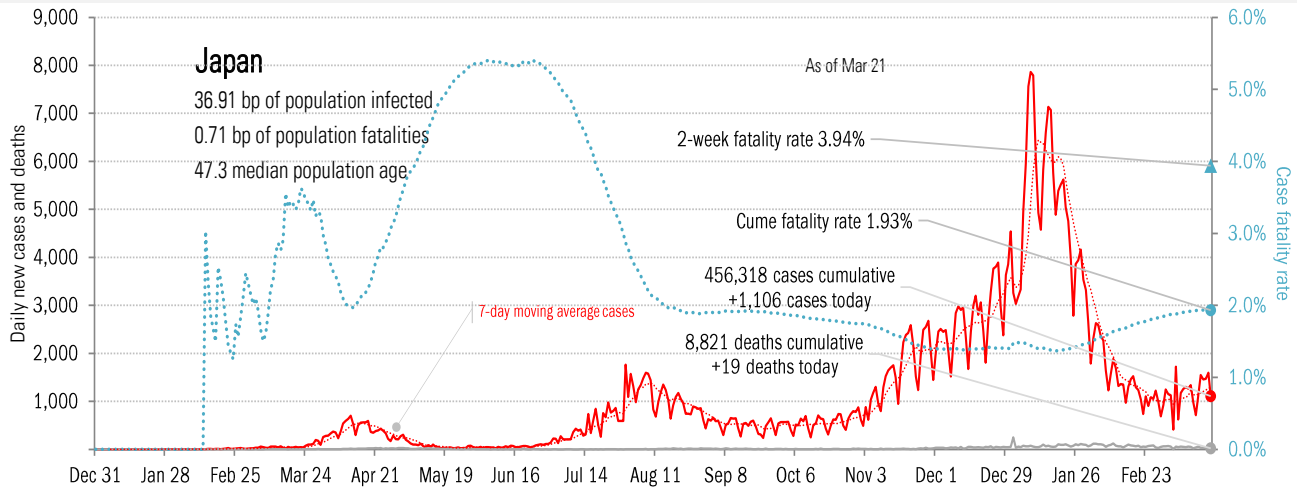
Source: [Johns Hopkins](#), TrendMacro calculations

# Patient zero... and then everyone else



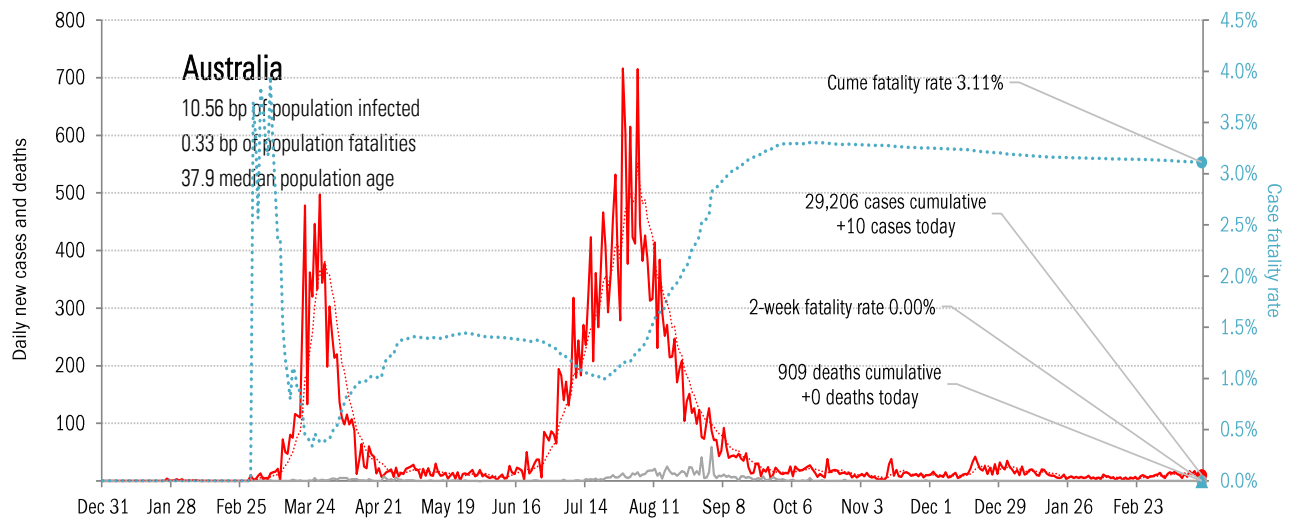
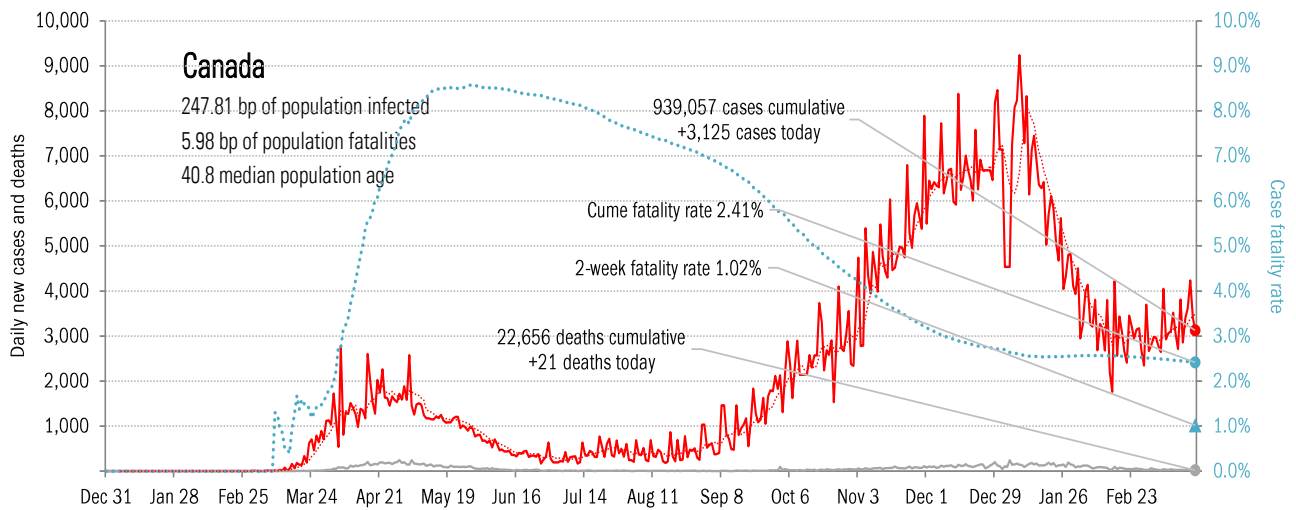
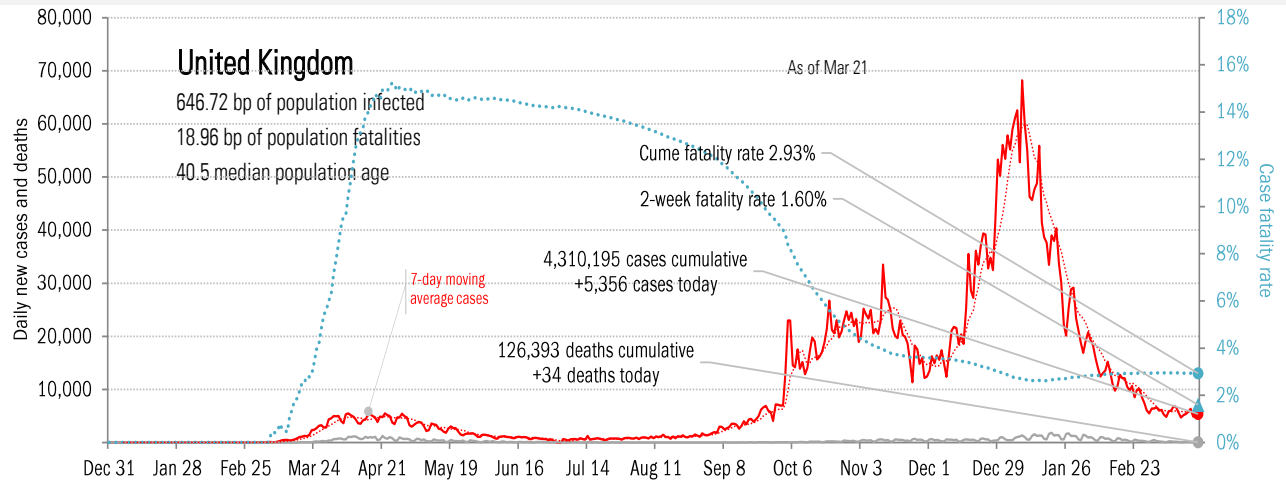
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the largest economies



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

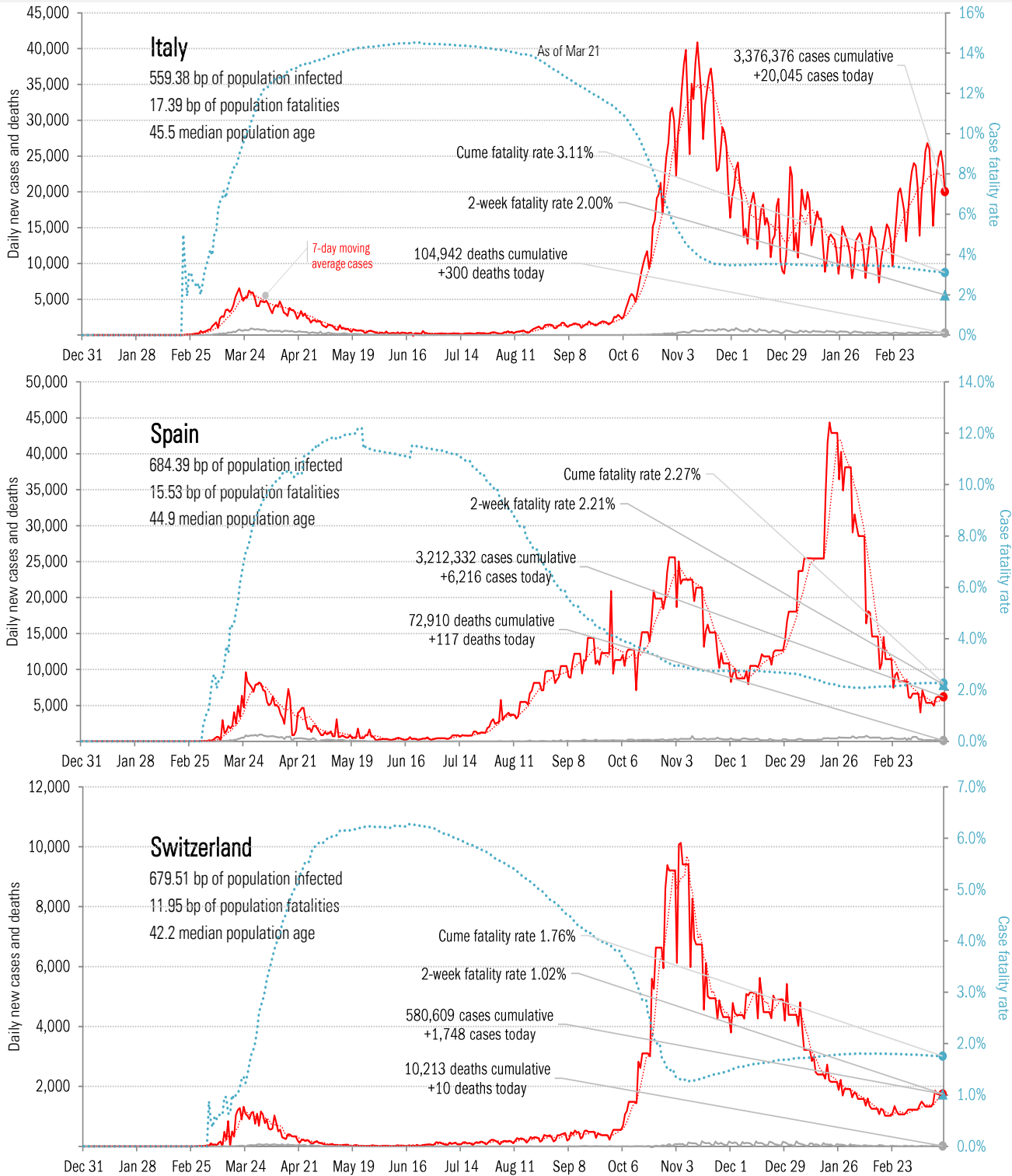
# Impact in The Anglosphere



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

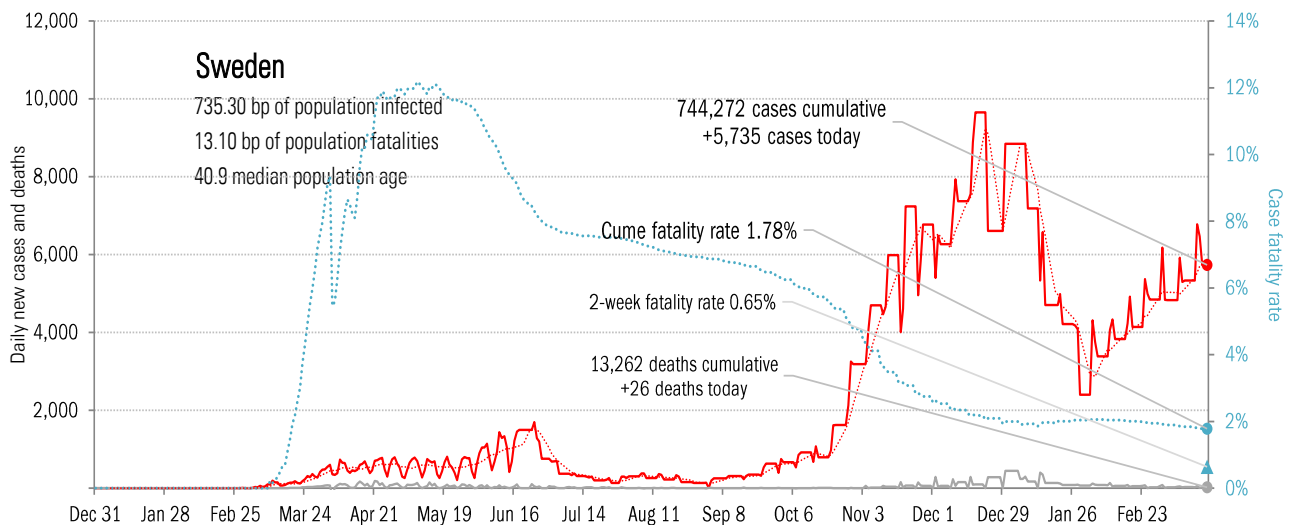
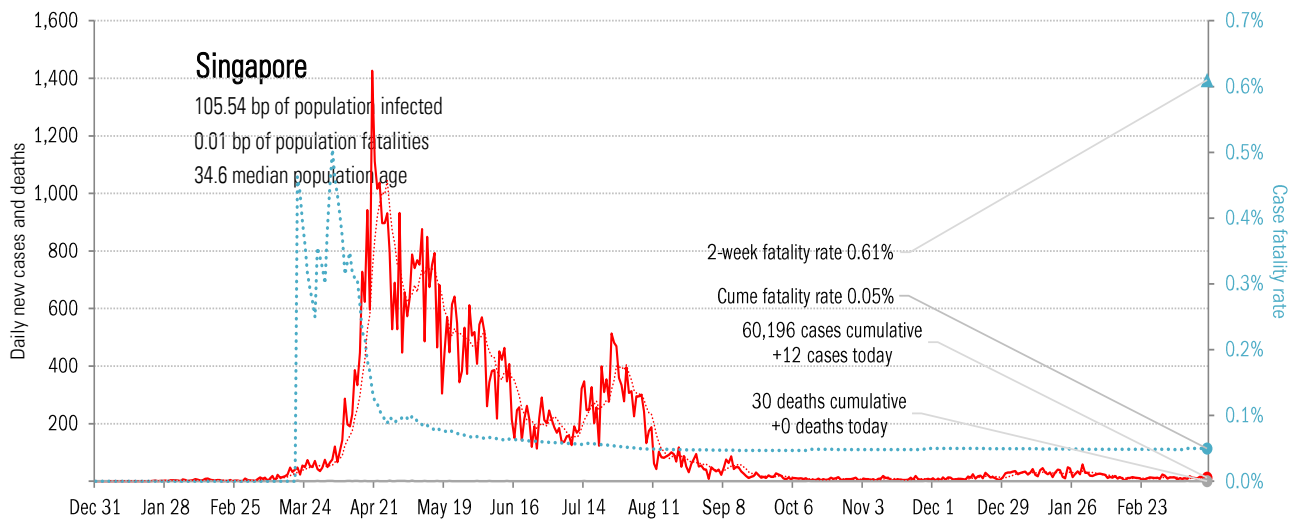
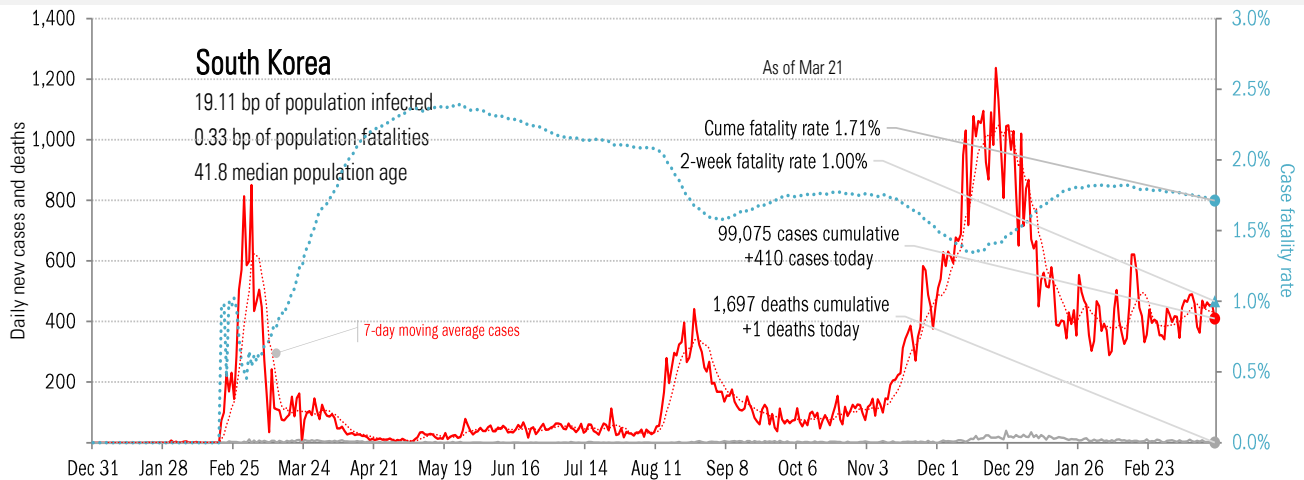


# Impact in continental Europe



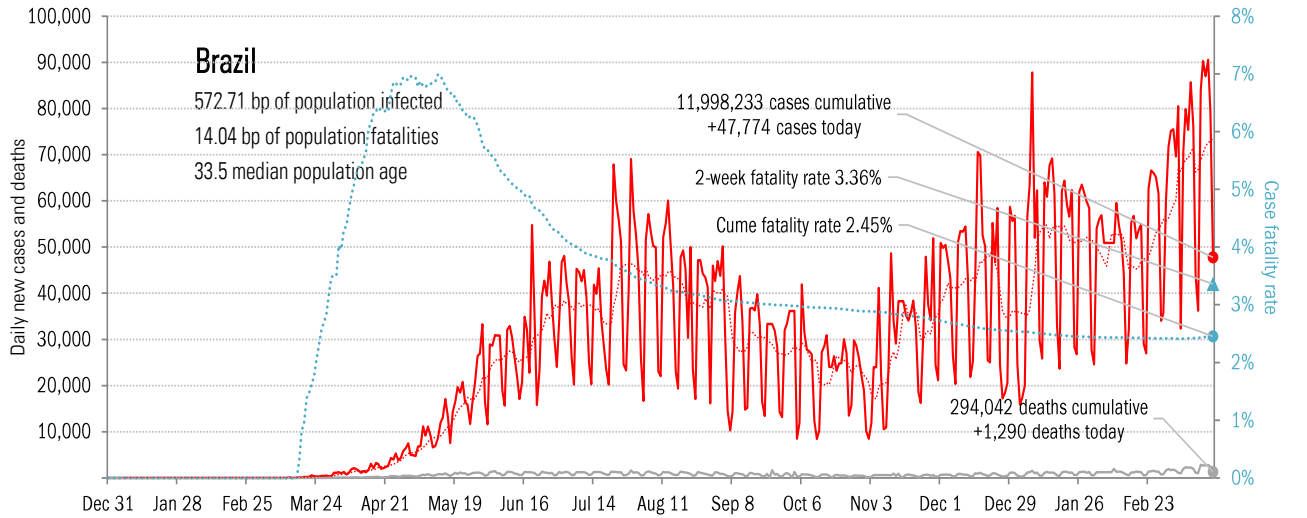
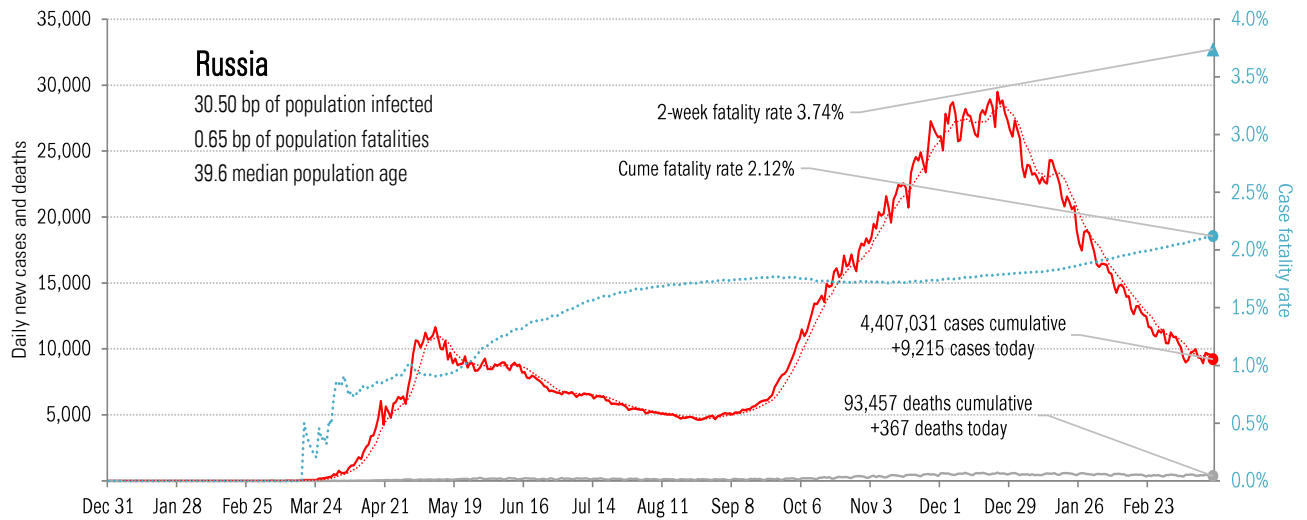
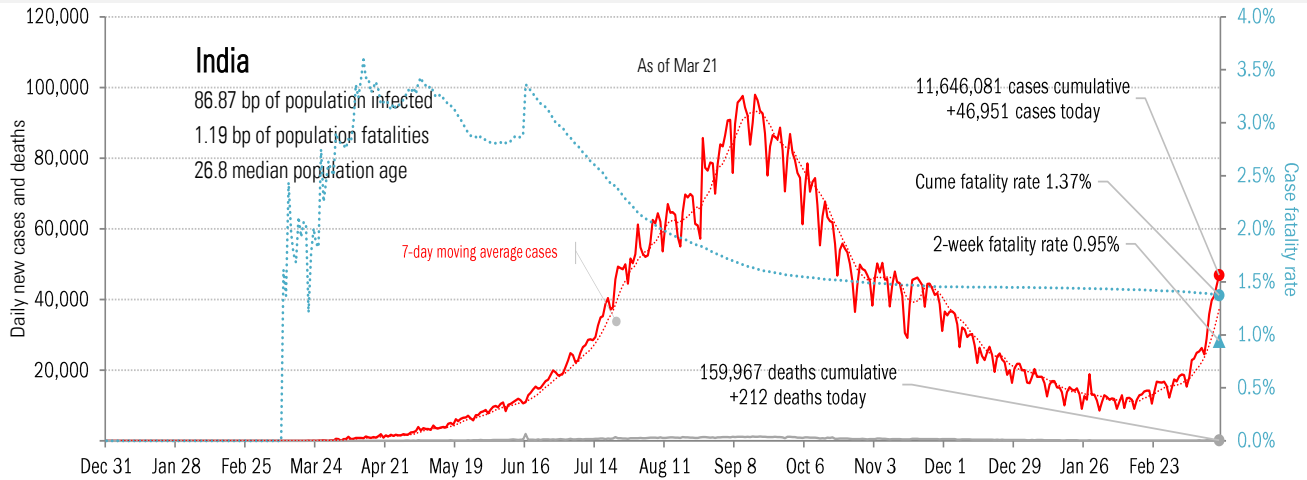
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



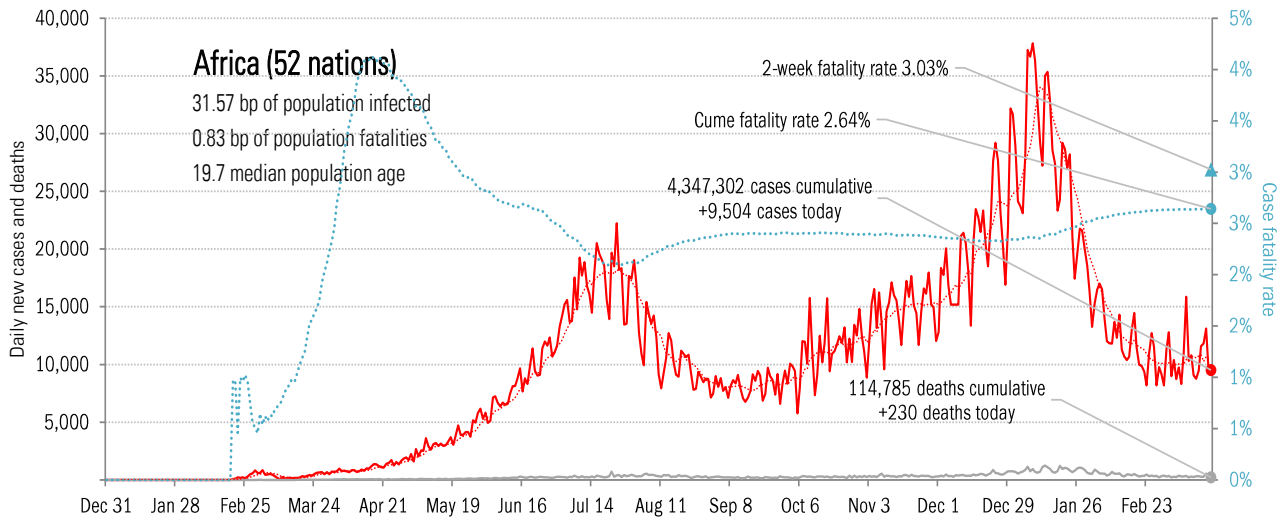
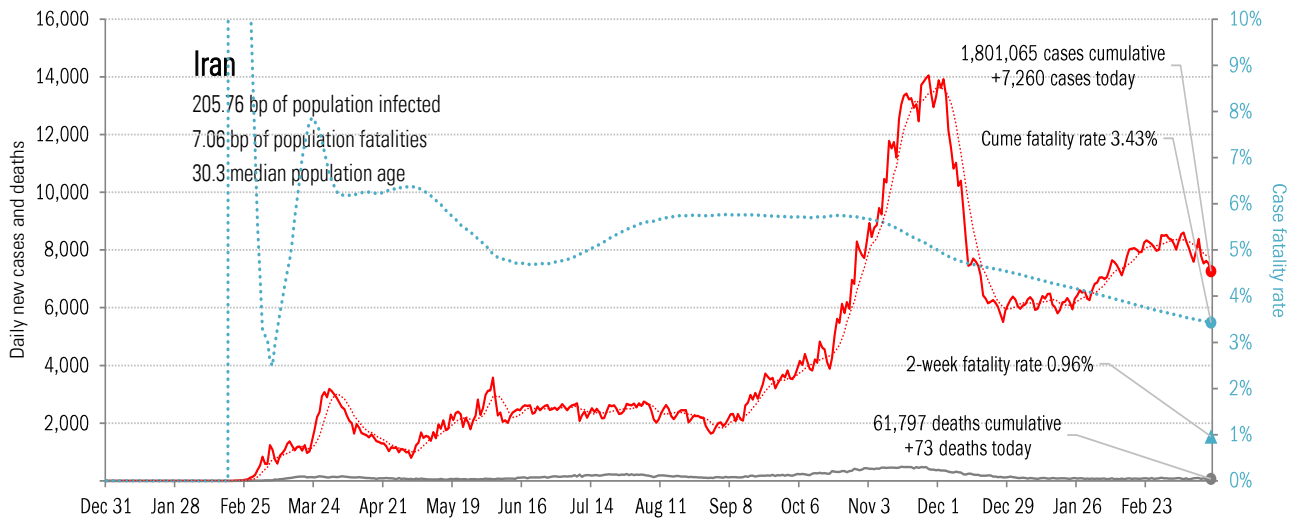
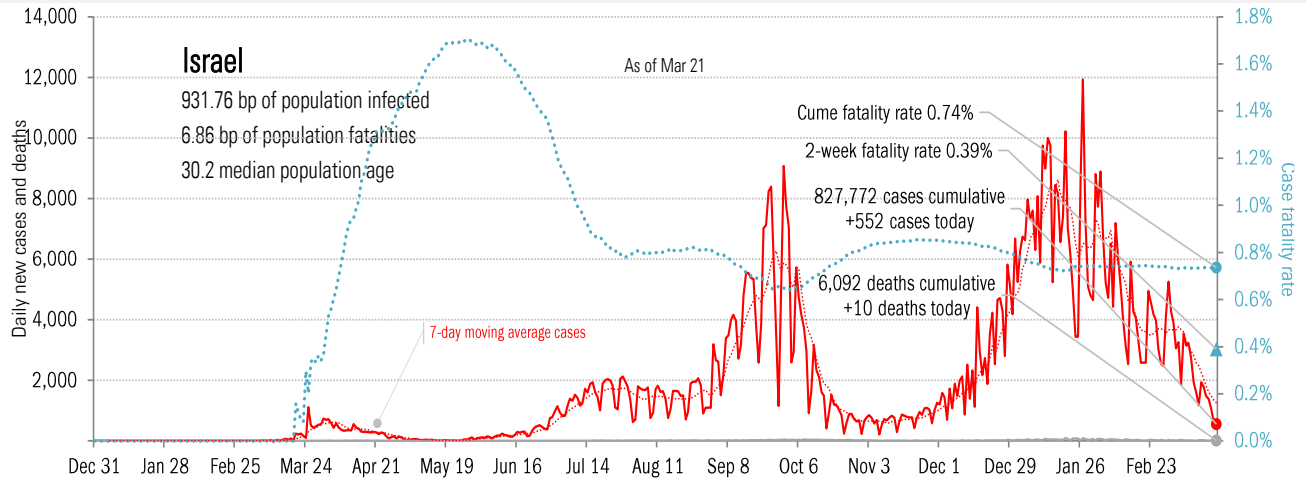
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



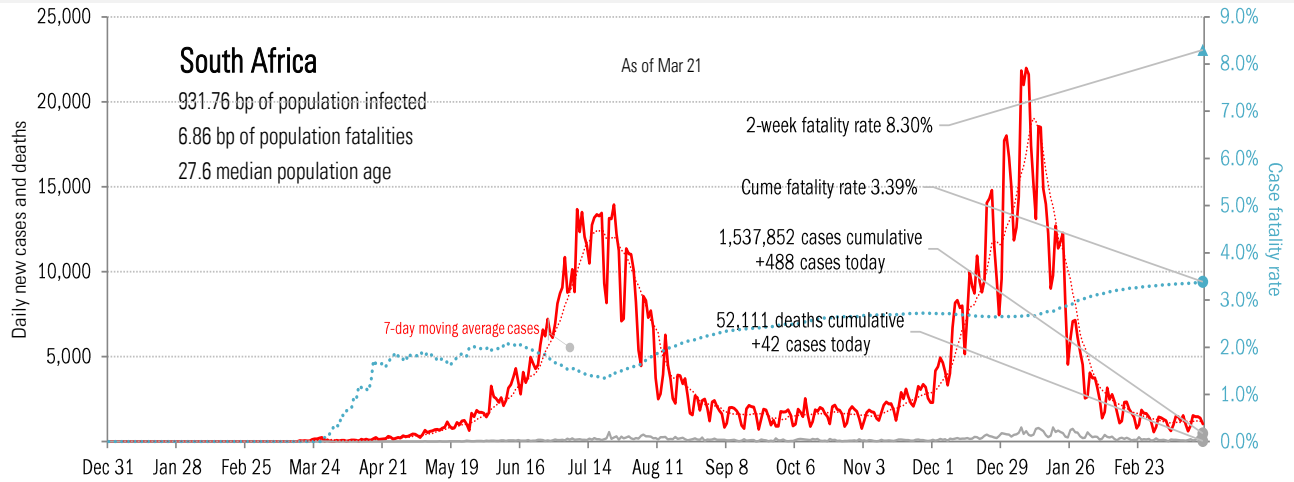
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

# Impact in Africa, continued



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