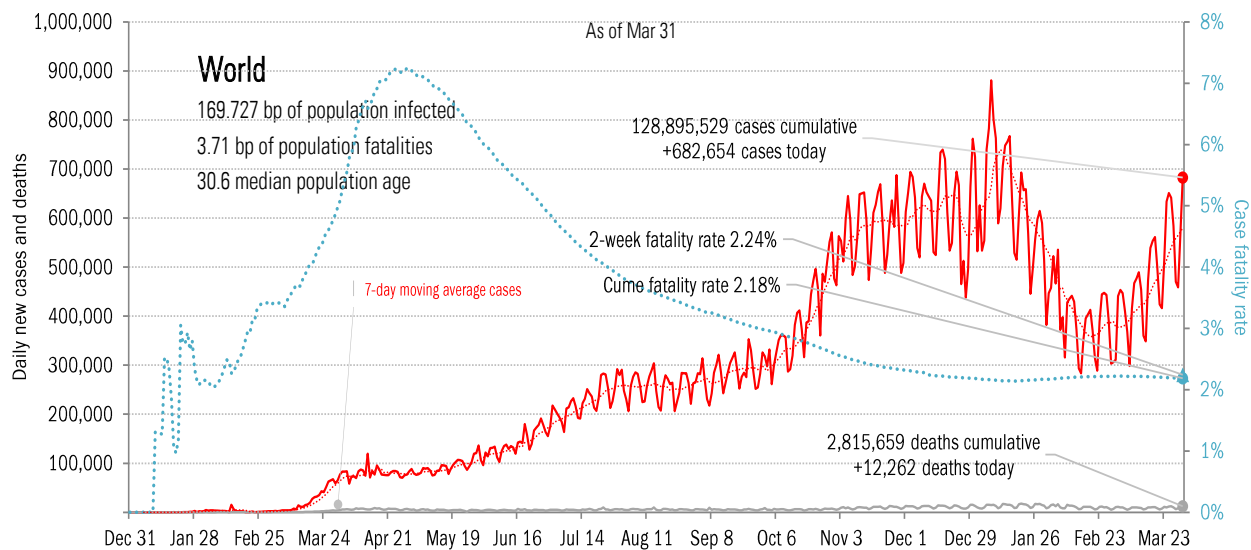
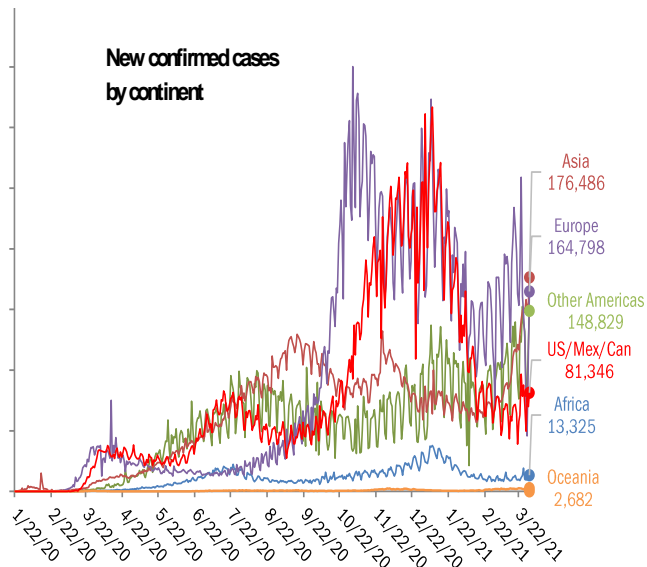


## Data Insights: Covid-2019 Monitor

Thursday, April 1, 2021

### The global scorecard

The worst ten countries			
New cases		New Deaths	
Brazil	+90,638	Brazil	+3,869
India	+72,330	United States	+1,076
United States	+66,641	Poland	+653
France	+59,054	Mexico	+577
Turkey	+39,302	Italy	+467
Poland	+32,891	India	+459
Germany	+25,014	Ukraine	+413
Italy	+23,887	Russia	+402
Argentina	+16,056	Peru	+373
Peru	+15,686	France	+303
<b>+441,499</b>		<b>+8,592</b>	
World +682,654		World +12,262	
Topten 65%		Topten 70%	



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

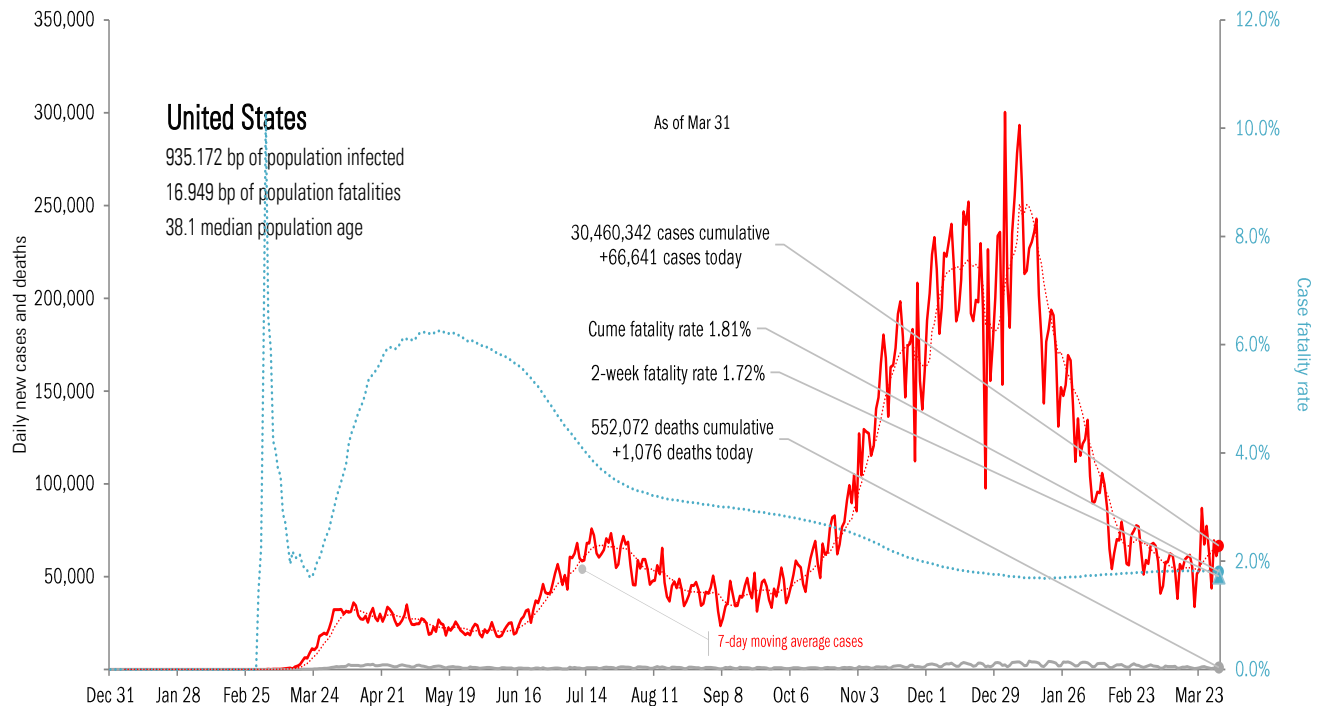
## The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use		
NY	+7,789		CA	+146		FL	+95		CA	3,668,745		CA	59,274		TX	225,358		R	94%	MD	20%	
MI	+7,107		OK	+103		MI	+84		TX	2,791,910		NY	50,299		CA	221,896		MA	83%	NY	19%	
FL	+5,294		FL	+87		NY	+74		FL	2,057,735		TX	48,252		FL	150,903		MD	82%	MI	16%	
PA	+4,686		NY	+87		MD	+39		NY	1,873,138		FL	33,425		NY	113,540		CT	81%	ID	14%	
NJ	+3,672		NJ	+75		CH	+37		IL	1,244,499		PA	25,074		GA	94,220		PA	79%	MS	14%	
IL	+2,596		GA	+68		GA	+28		GA	1,059,548		NJ	24,561		CH	75,069		MI	79%	TX	14%	
MA	+2,499		PA	+45		NJ	+26		PA	1,027,678		IL	23,579		PA	73,163		MO	78%	GA	13%	
TX	+2,482		IL	+37		CO	+20		CH	1,017,566		GA	19,055		KY	67,976		GA	78%	WV	13%	
CA	+2,479		MA	+37		IN	+20		NC	914,132		CH	18,609		IL	67,956		FL	78%	NJ	13%	
CH	+1,989		WV	+36		TN	+19		NJ	908,816		MA	17,185		AZ	58,156		NC	77%	DC	12%	
+40,593			+721			+442			16,563,767			319,313			1,148,237							
All states	+66,641		+1,076			+295			All states	30,460,342		552,072			2,041,448			All states	70%		67%	
Top ten	61%		67%			150%			Top ten	54%		58%			56%			Median	70%		9%	

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NJ	-1,199	TX	-98	AL	-80	MT	+87 bp
CT	-1,049	MO	-46	PA	-75	NE	+73 bp
AK	-1,024	MI	-41	CA	-56	NY	+65 bp
TX	-727	TN	-18	NC	-32	DC	+58 bp
CH	-469	VA	-13	MA	-25	MD	+52 bp



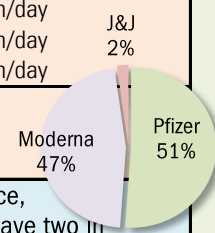
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

US overall	Over last day	Share pop full immunization
204.38 million doses distributed	+6.34 million/day	United States 16.3%
156.56 million doses administered	+2.76 million/day	United Kingdom 6.1%
101.07 million persons partially immunized	+1.58 million/day	France 4.0%
56.96 million persons fully immunized	+1.23 million/day	Spain 5.8%
7.73 million shots long-term care residents/staff	+0.01 million/day	Germany 5.0%
		Italy 5.3%
		Australia 0.6%
		Israel 55.3%
		Canada 1.8%
		Japan 0.1%
		Africa 0.3%
		India 0.7%
		Brazil 2.0%

76.6% of distributed doses administered  
 30.3% of US pop partial  
 100% of LTC partial

17.0% full immunity  
 63.4% full immunity



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

**181 days**  
by Sep 28, 2021

US will achieve herd immunity in  
**64 days**  
by Jun 2, 2021

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

AK
82.2%
34.0%
22.3%

Global data differs due to sources

China NA	ME
	61.5%
	34.3%
	19.7%

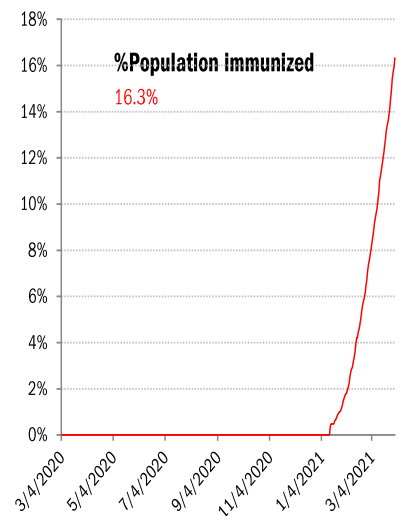
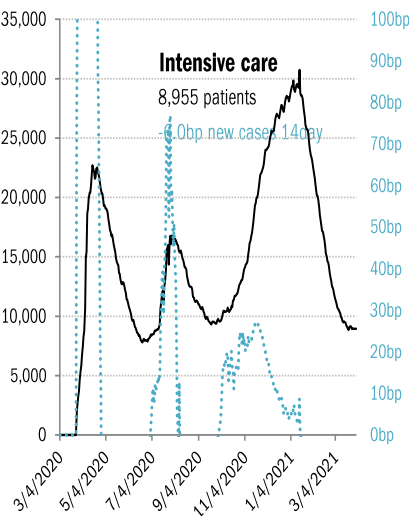
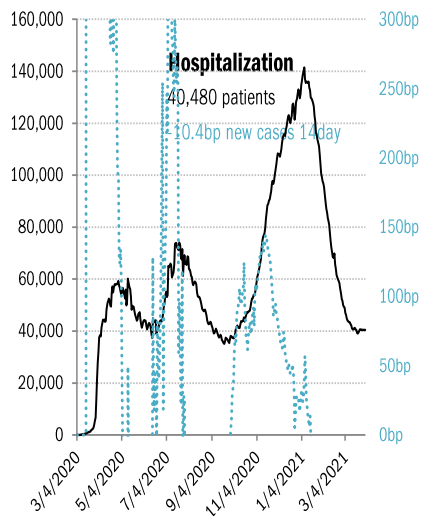
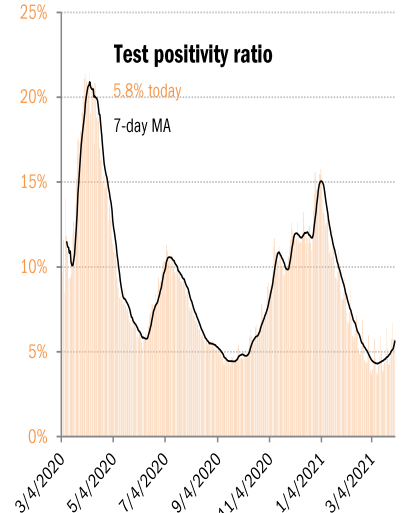
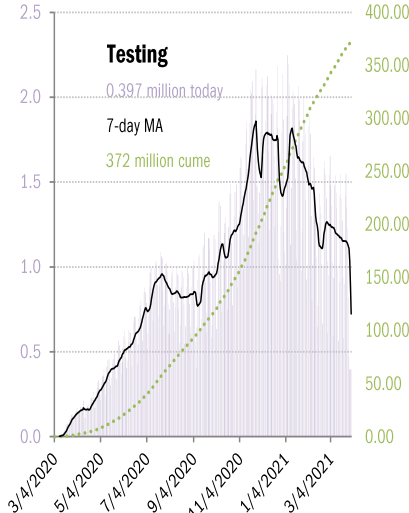
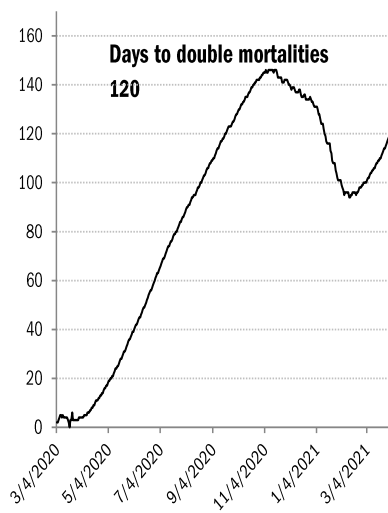
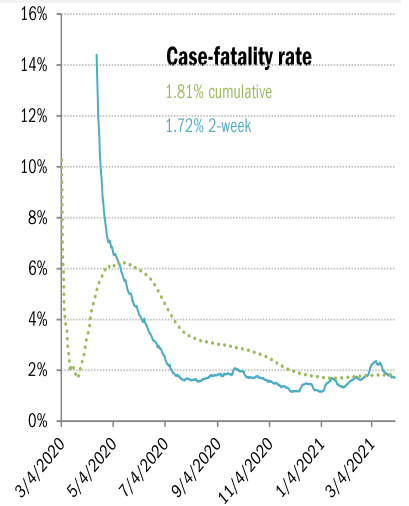
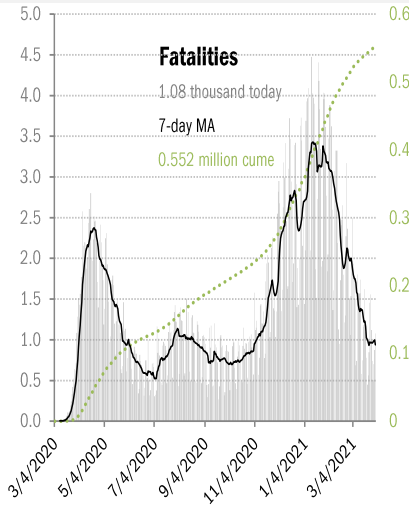
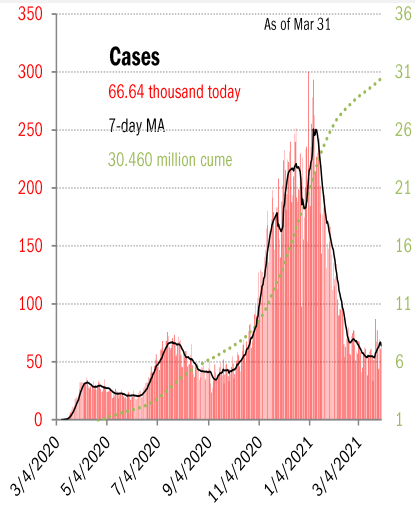
WI	VT	NH								
57.6%	67.0%	58.0%								
31.8%	33.5%	30.5%								
18.5%	18.9%	17.6%								
WA	ID	MT	ND	MN	IL	MI	NY	MA		
59.0%	53.1%	63.4%	61.0%	56.8%	59.1%	59.0%	61.2%	62.0%		
29.8%	25.8%	30.6%	32.3%	31.5%	31.0%	28.6%	31.1%	34.3%		
17.9%	16.5%	19.2%	20.3%	18.8%	16.5%	17.0%	16.9%	19.0%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
58.1%	55.3%	65.4%	69.9%	57.6%	52.5%	59.2%	59.8%	59.0%	68.1%	61.6%
28.1%	27.7%	27.1%	34.8%	30.8%	25.3%	29.1%	31.8%	33.2%	35.4%	33.0%
16.7%	16.0%	18.2%	22.4%	19.3%	16.7%	16.9%	16.6%	18.7%	20.4%	20.9%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
59.9%	50.8%	57.8%	59.6%	57.1%	57.6%	63.4%	57.5%	59.1%	60.9%	
30.7%	25.4%	29.9%	30.8%	25.6%	31.0%	30.0%	31.3%	31.2%	31.0%	
16.1%	11.4%	17.5%	18.7%	15.1%	17.4%	18.8%	17.1%	17.2%	16.4%	
AZ	NM	KS	AR	TN	NC	SC	DC			
59.1%	68.8%	61.4%	58.4%	55.7%	57.7%	55.7%	73.0%			
29.6%	38.1%	30.0%	26.1%	25.1%	28.9%	27.3%	27.5%			
17.1%	23.5%	16.9%	13.9%	13.8%	16.4%	15.0%	13.8%			
OK	LA	MS	AL	GA						
67.7%	58.5%	57.1%	57.0%	54.4%						
31.0%	26.2%	24.7%	23.6%	23.7%						
17.8%	16.3%	15.2%	13.4%	12.3%						
HI	TX	FL	PR							
68.0%	55.5%	61.2%	62.9%							
31.8%	25.8%	28.0%	22.2%							
19.0%	13.7%	15.8%	12.7%							

As of Mar 31

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

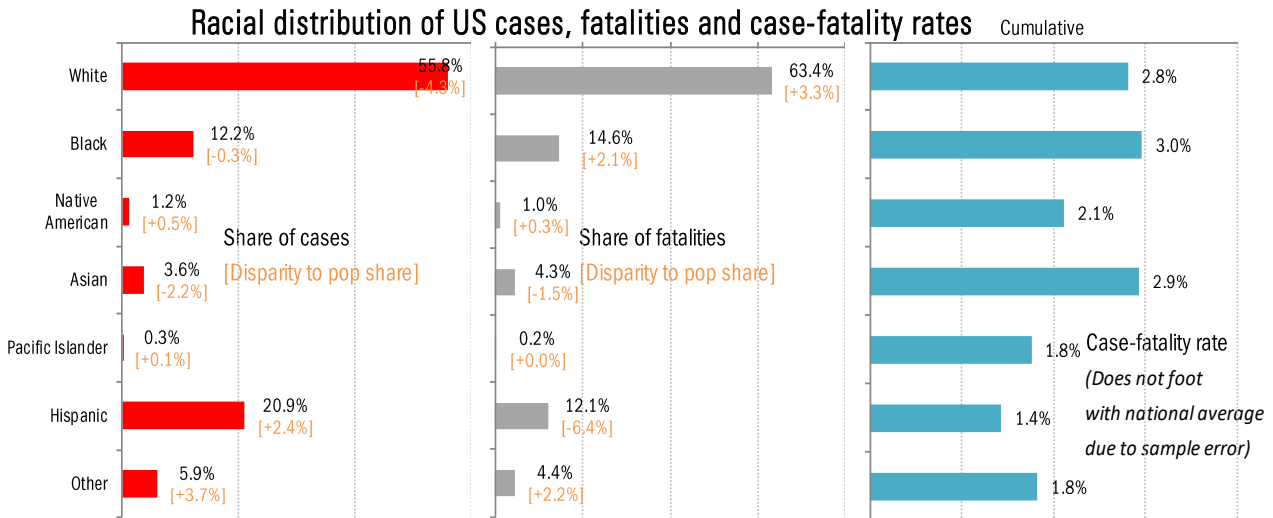
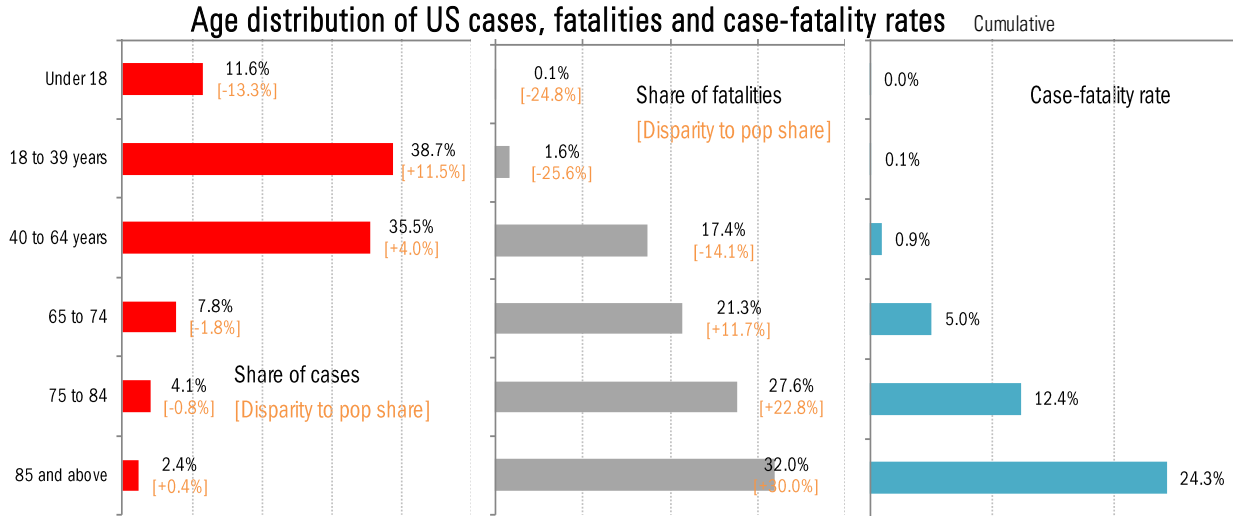
# US deep-dive

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

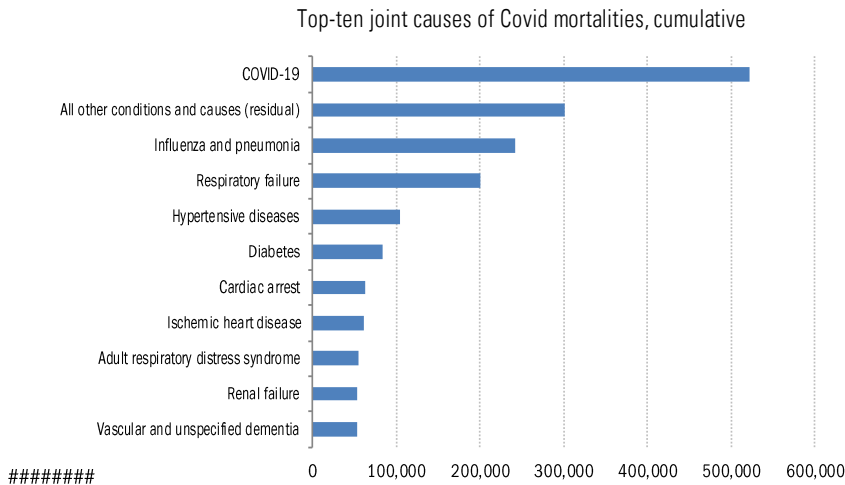


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

# 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

[Did the coronavirus leak from a lab? These scientists say we shouldn't rule it out.](#)

Charles Schmidt  
*MIT Technology Review*  
March 18, 2021

[Tourists are flocking to Madrid, Europe's last bastion of fun and freedom](#)

Agnish Ray  
*The Telegraph*  
March 31, 2021

[An Auschwitz Survivor Dies in a New York Nursing Home](#)

Faith Bottum  
*Wall Street Journal*  
March 31, 2021

[Pfizer-BioNTech vaccine 100 percent effective in teens](#)

*Politico*  
March 31, 2021

## Meme of day

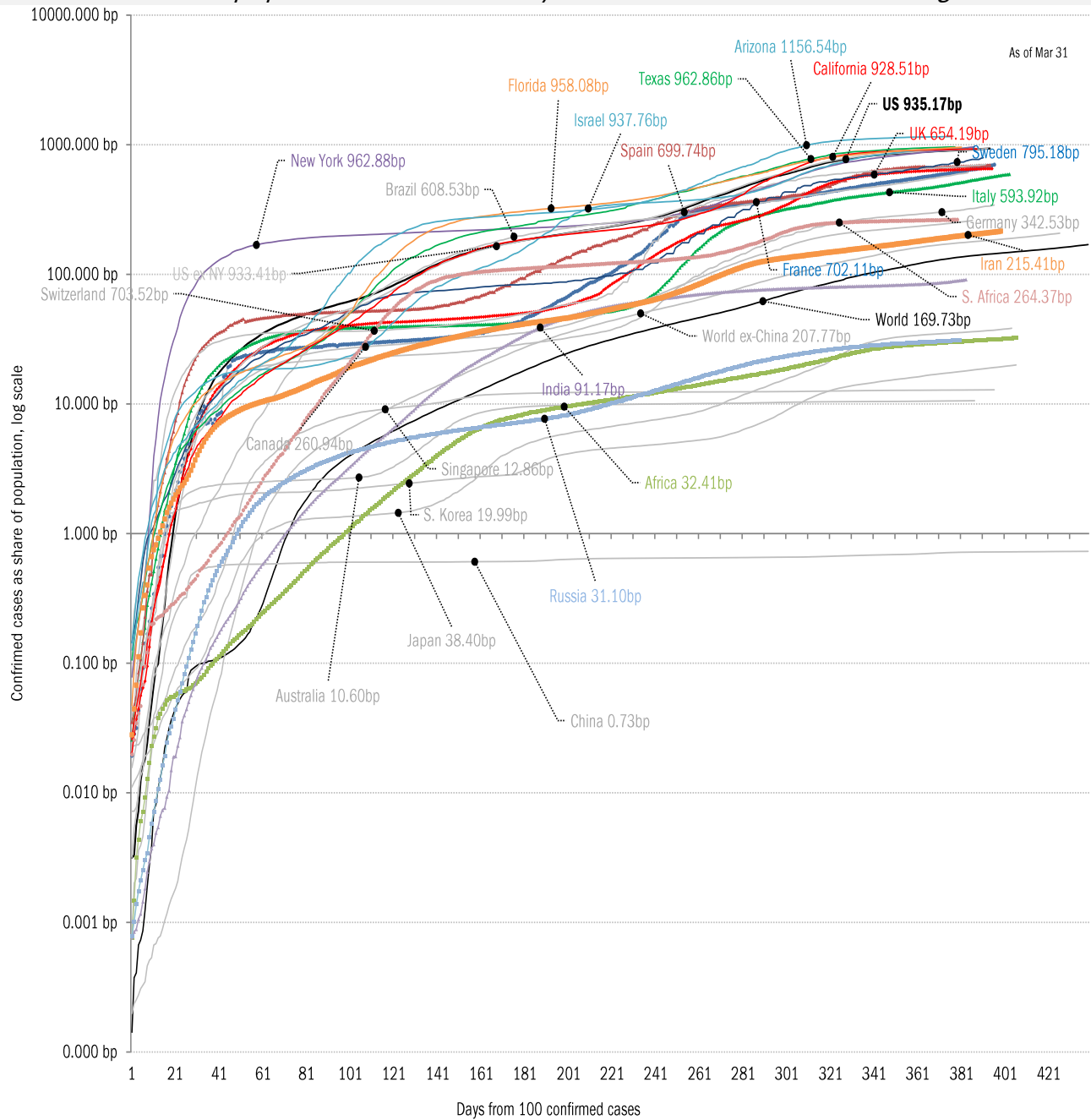


**CDC Director Gives Press Conference While Holding 'THE END IS NEAR' Sign**

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



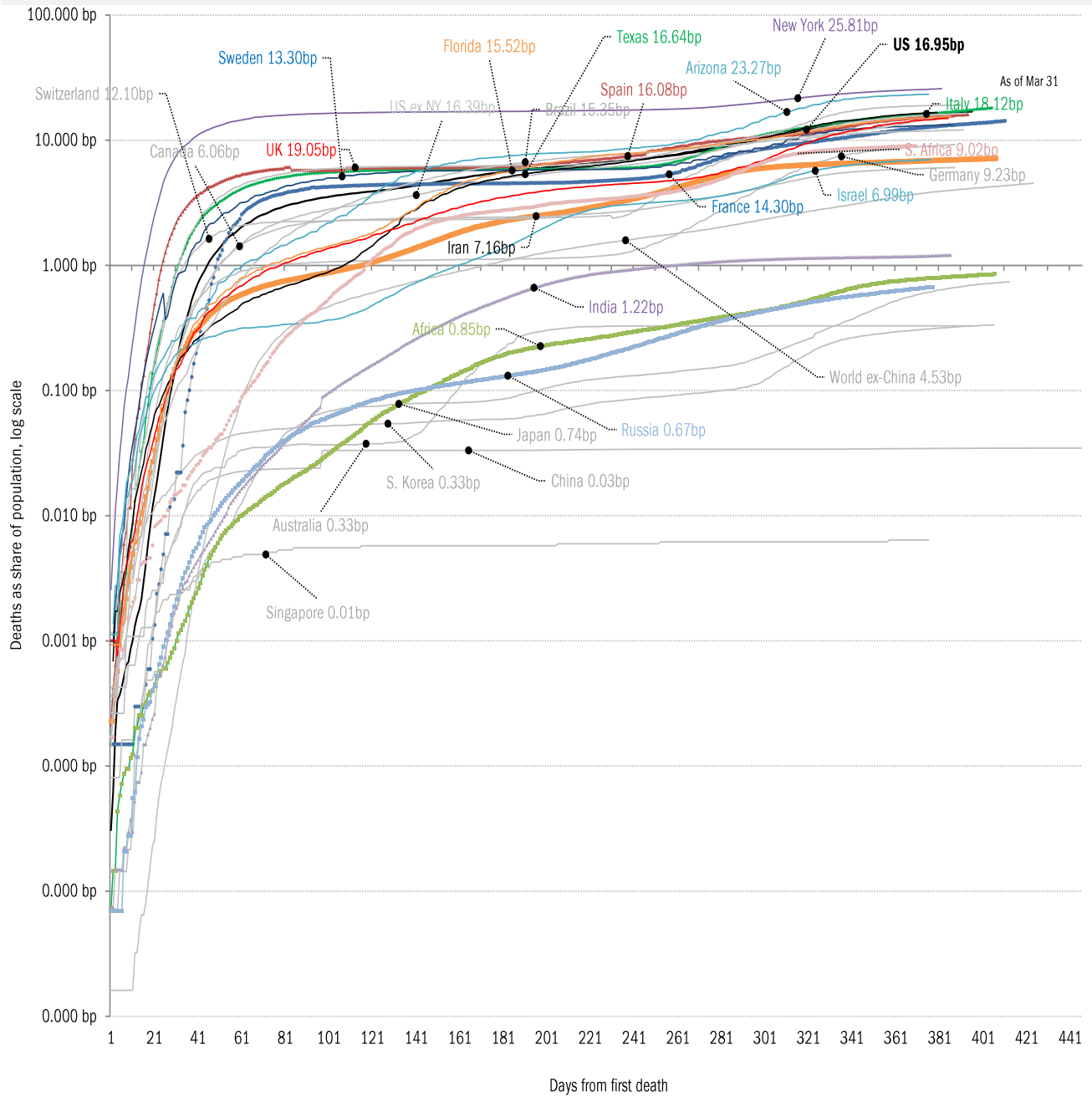
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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

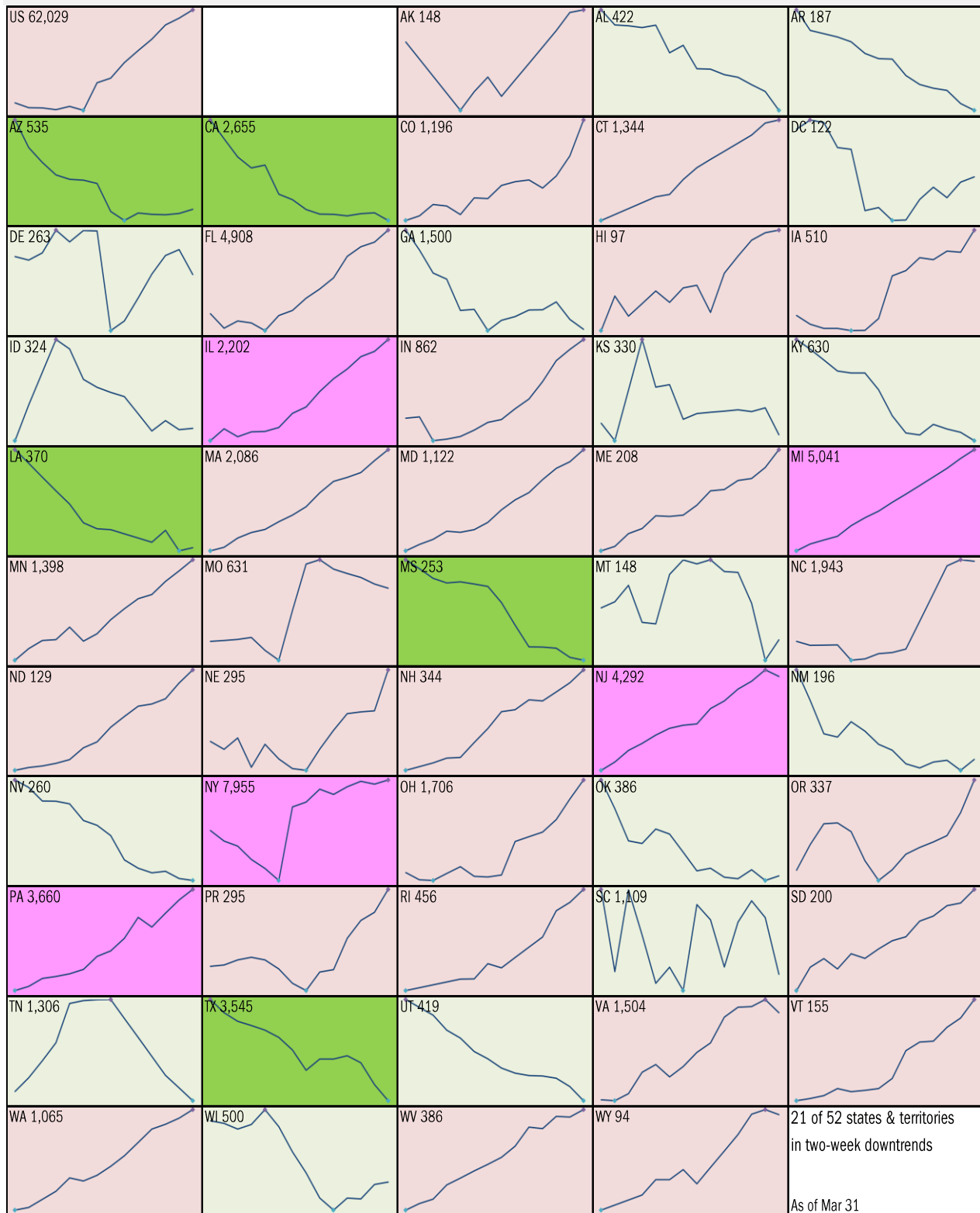
Vertical: days to double deaths Horizontal: days from first death

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

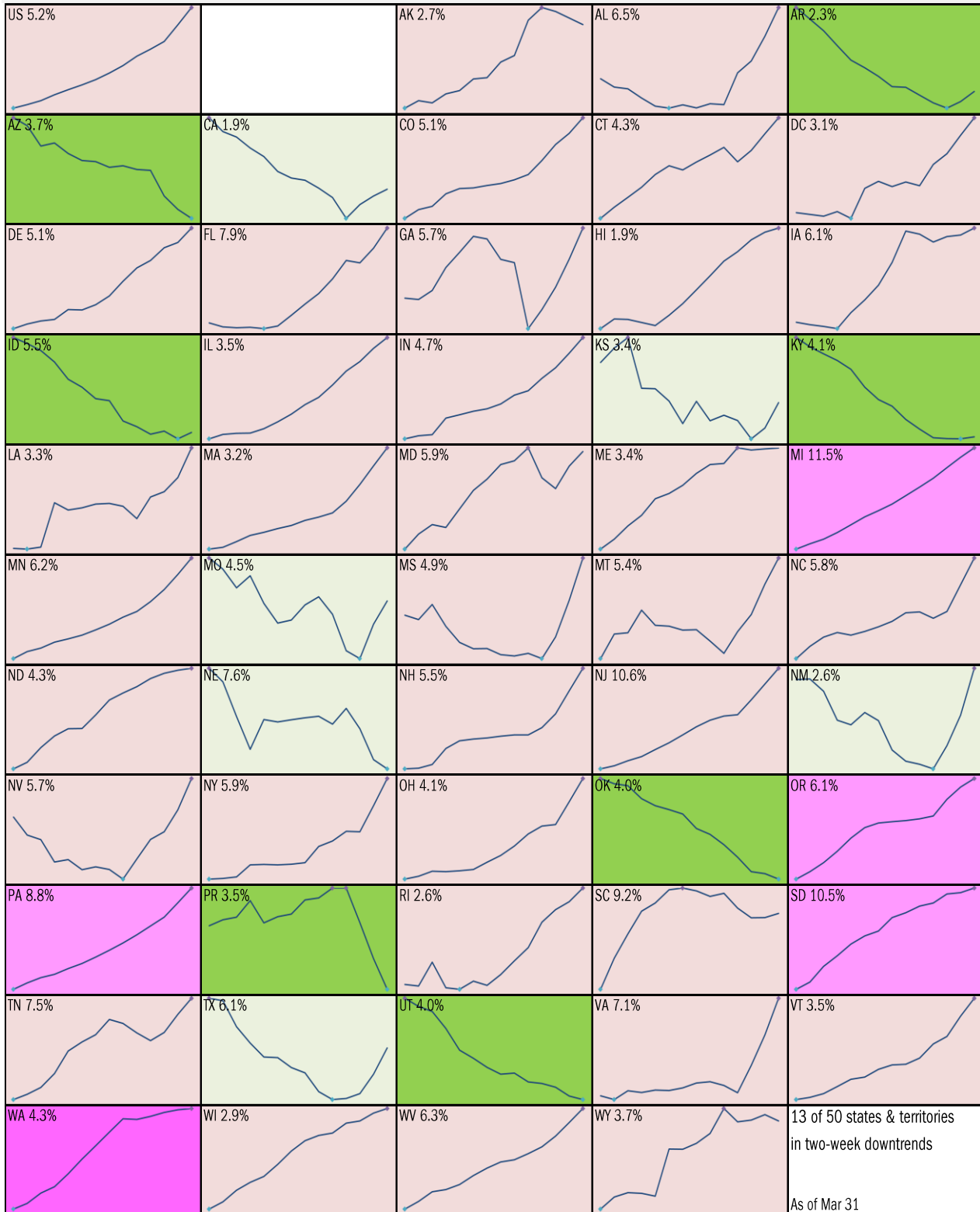


Source: [Johns Hopkins](#), TrendMacro calculations

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

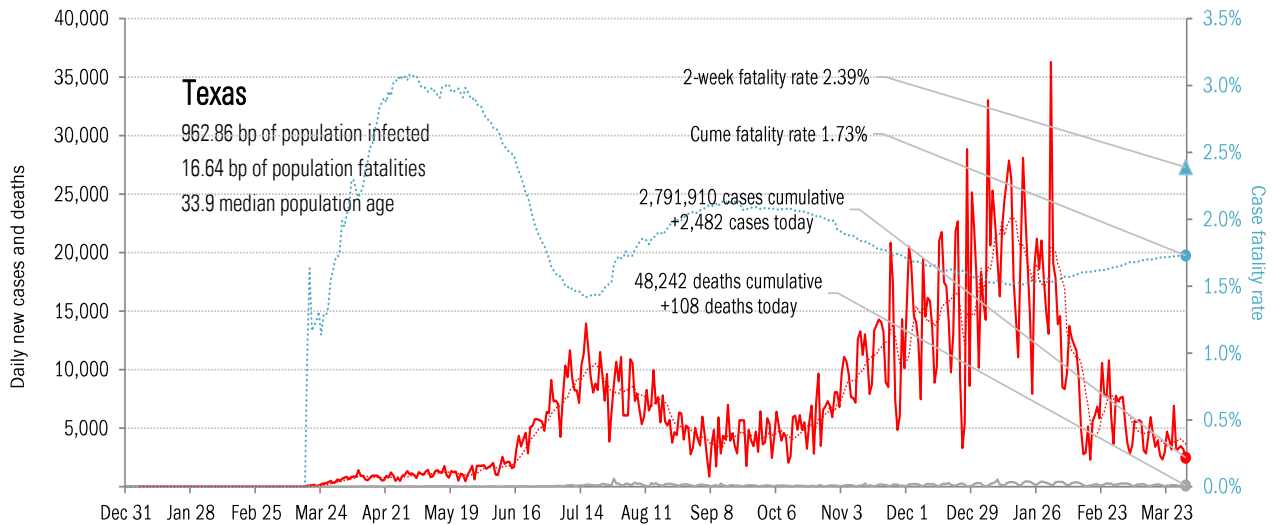
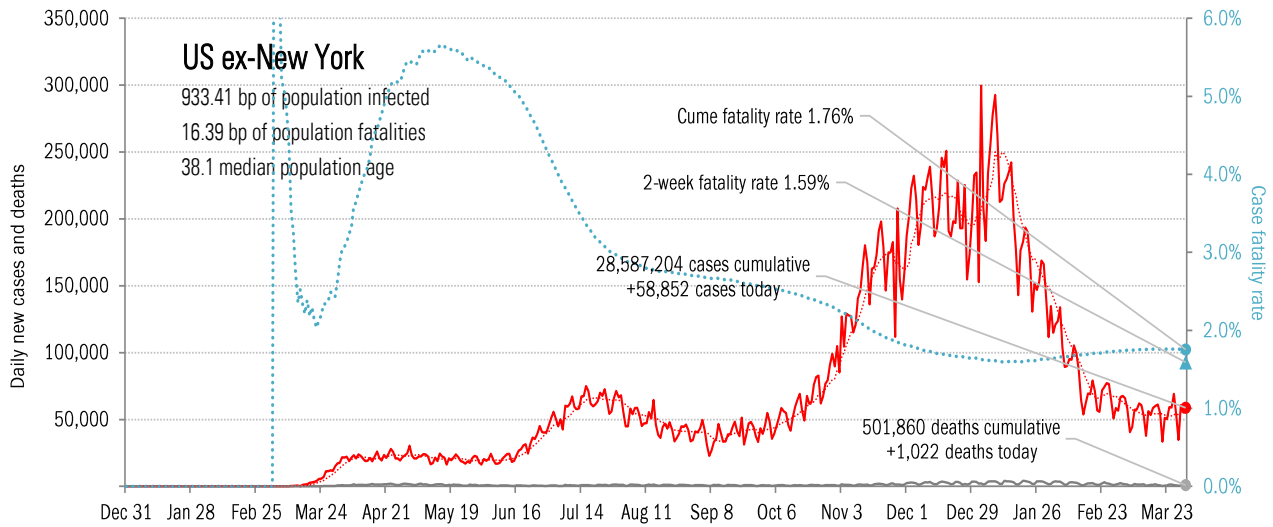
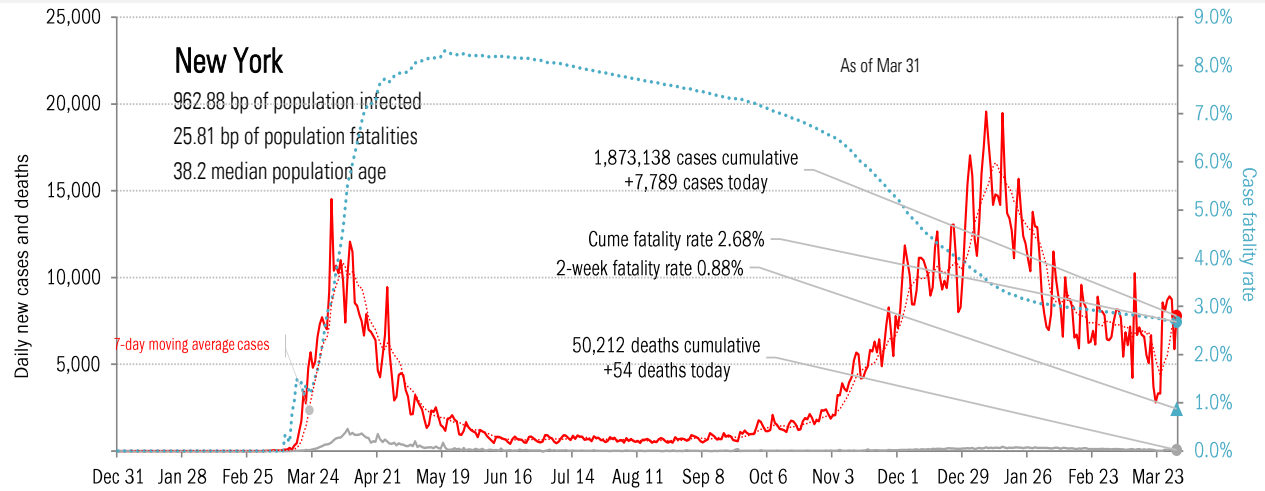
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



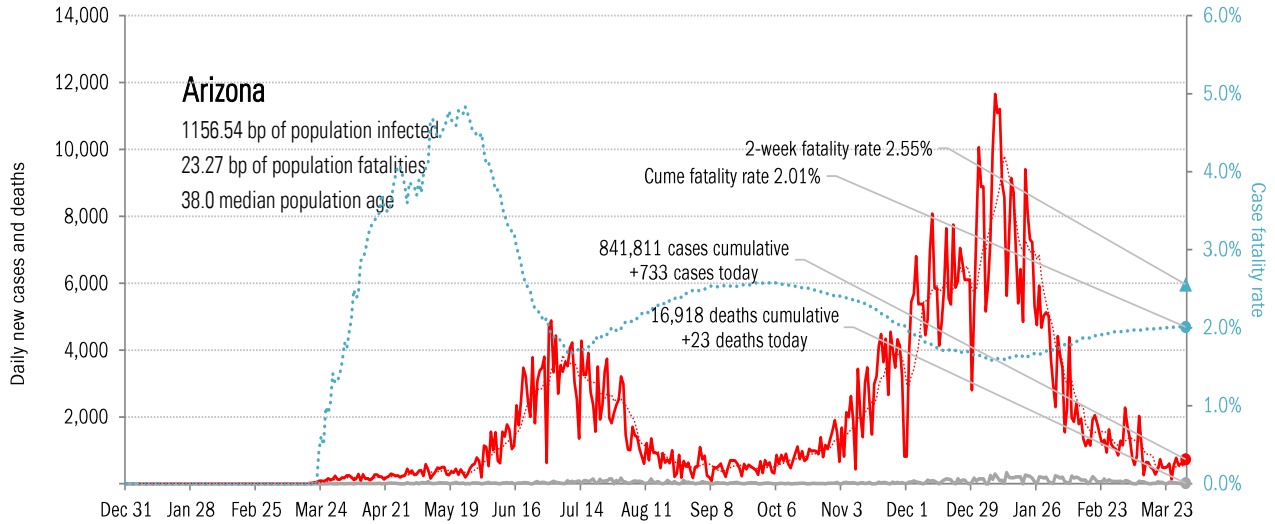
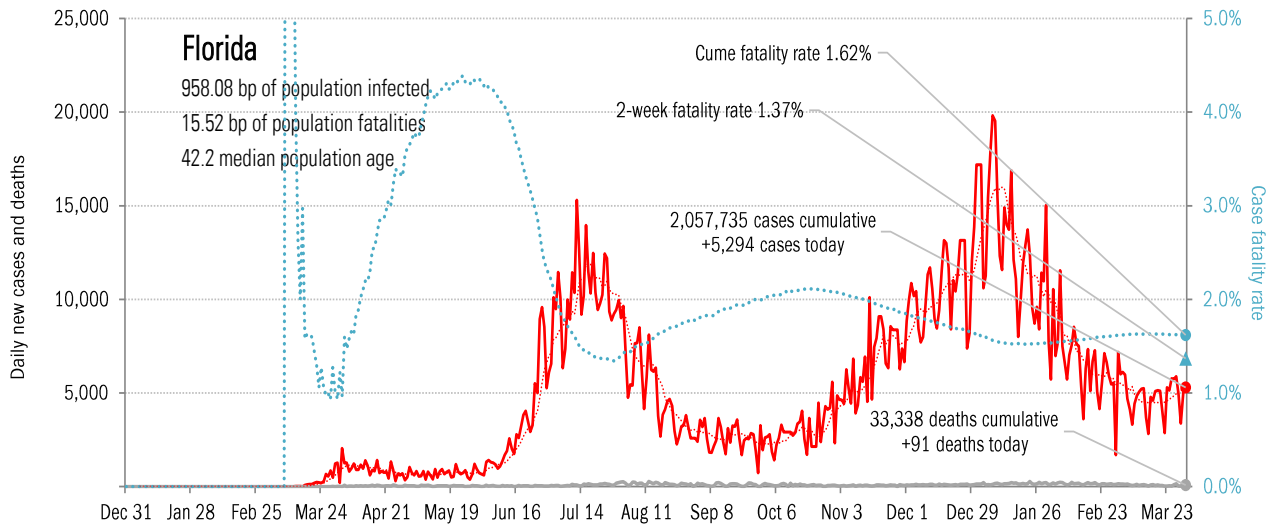
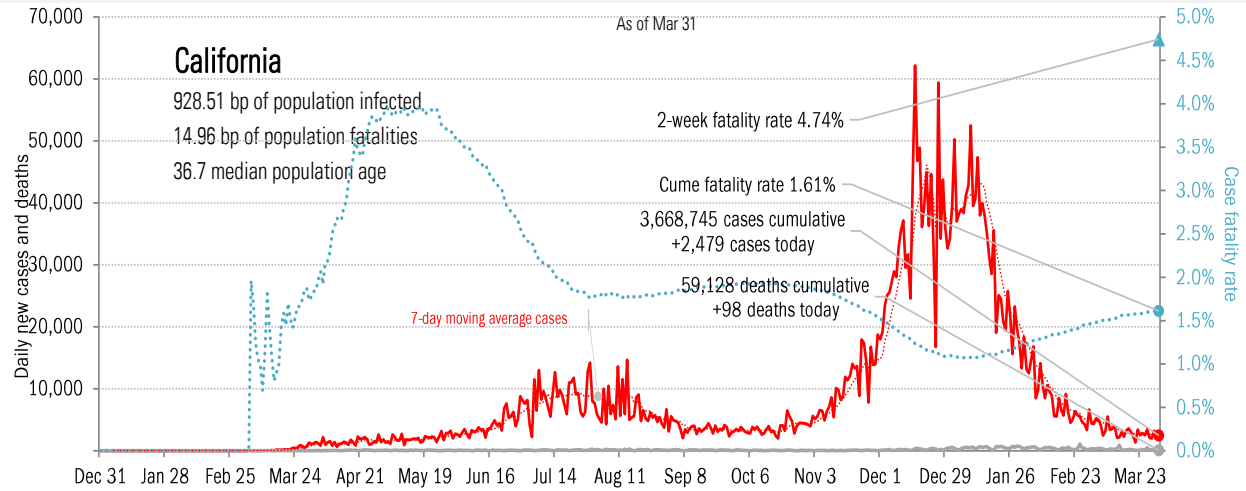
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



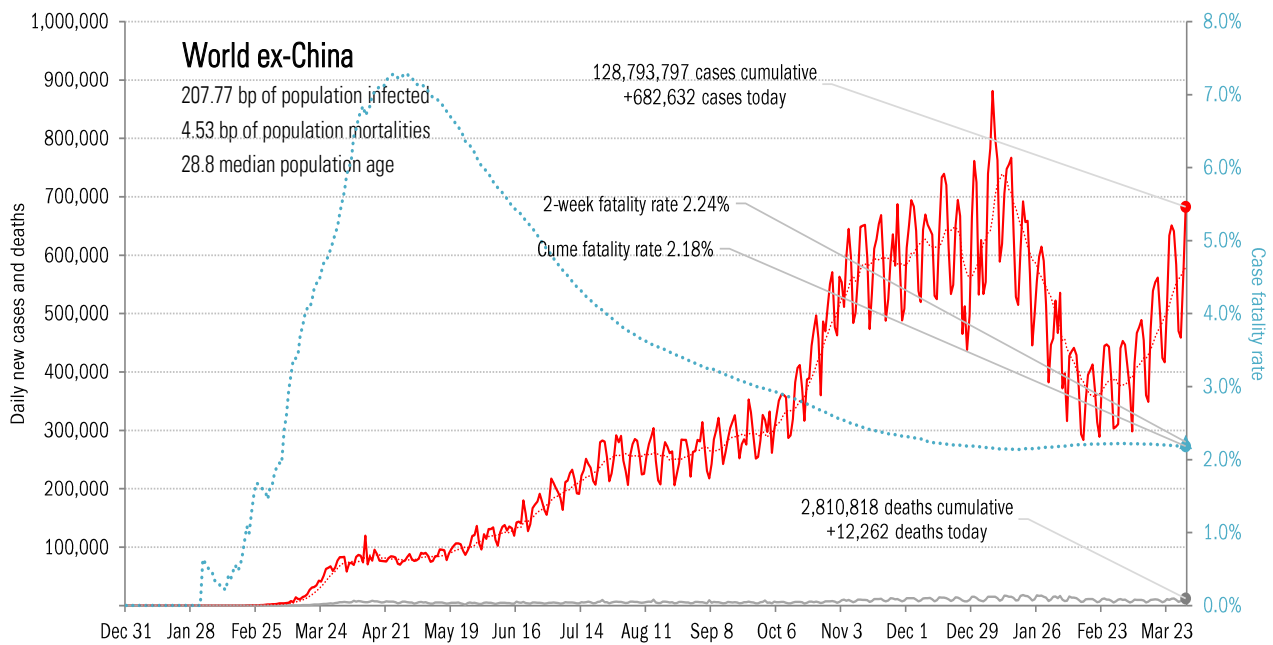
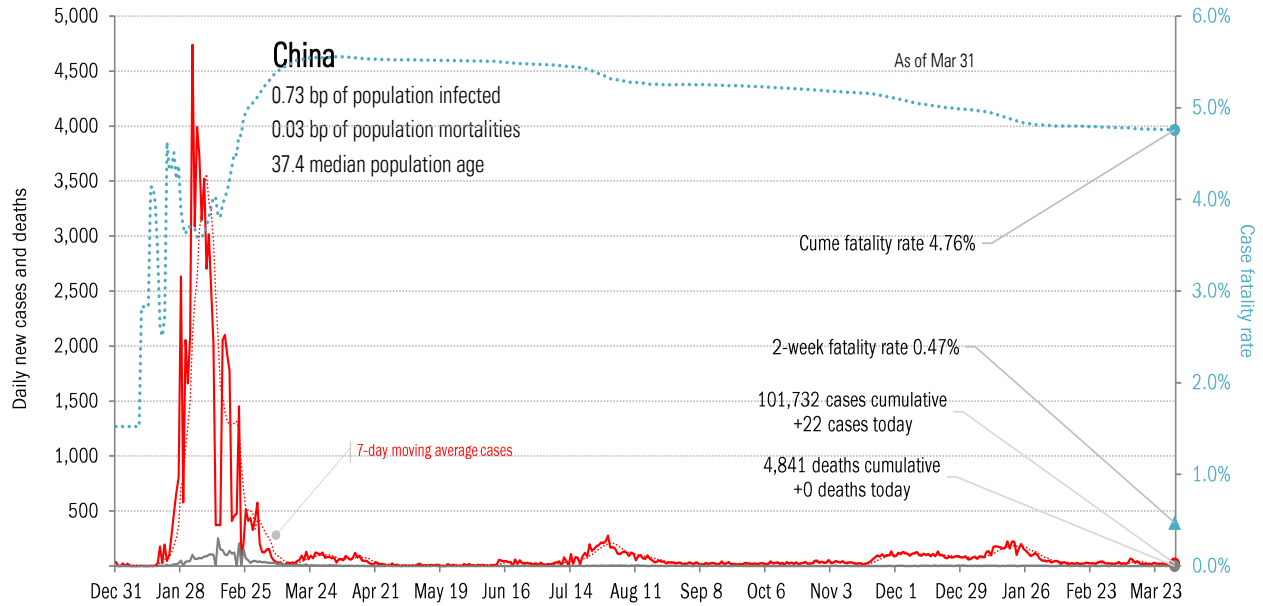
Source: [Johns Hopkins](#), TrendMacro calculations

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



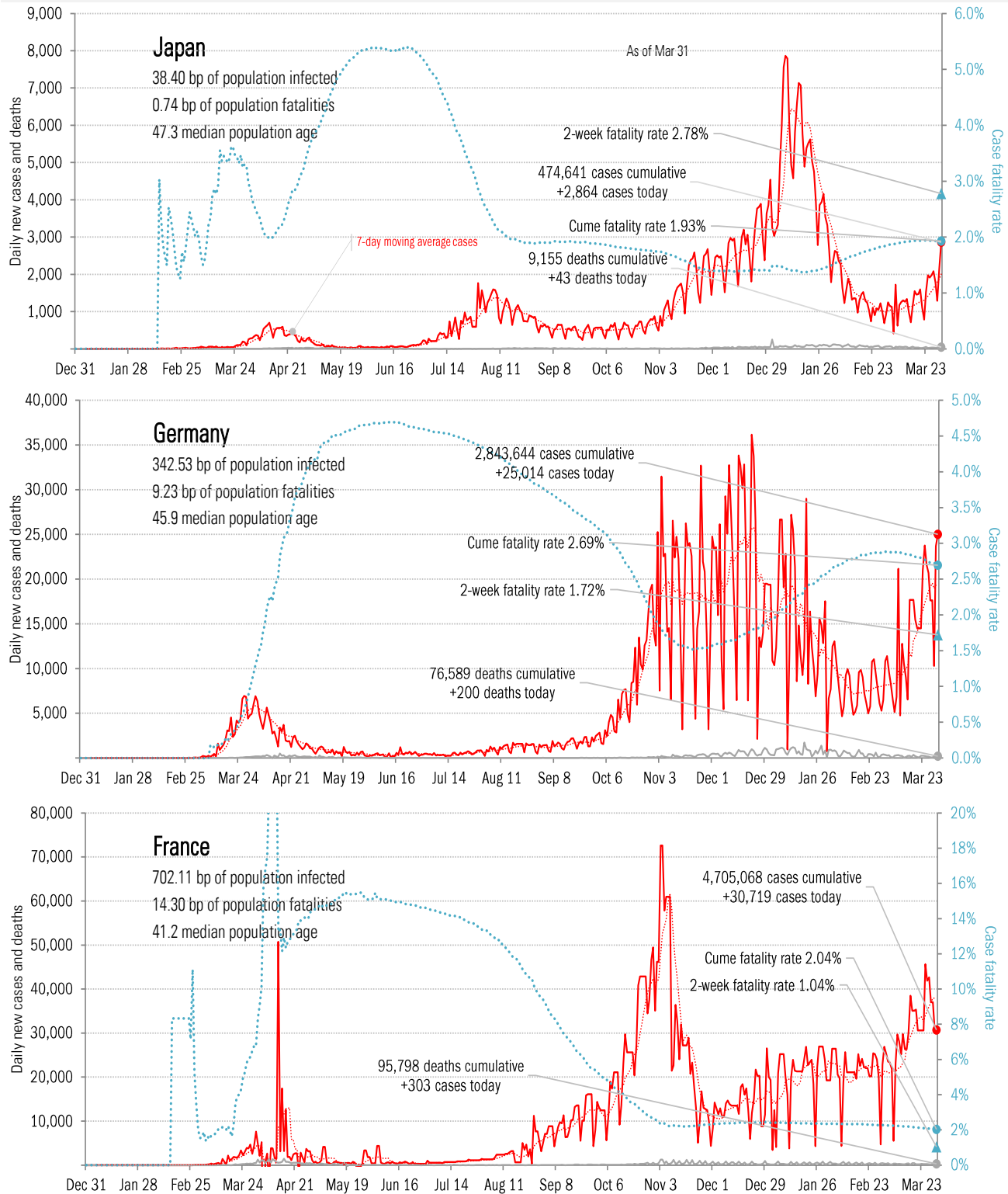
Source: [Johns Hopkins](#), TrendMacro calculations

# Patient zero... and then everyone else



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

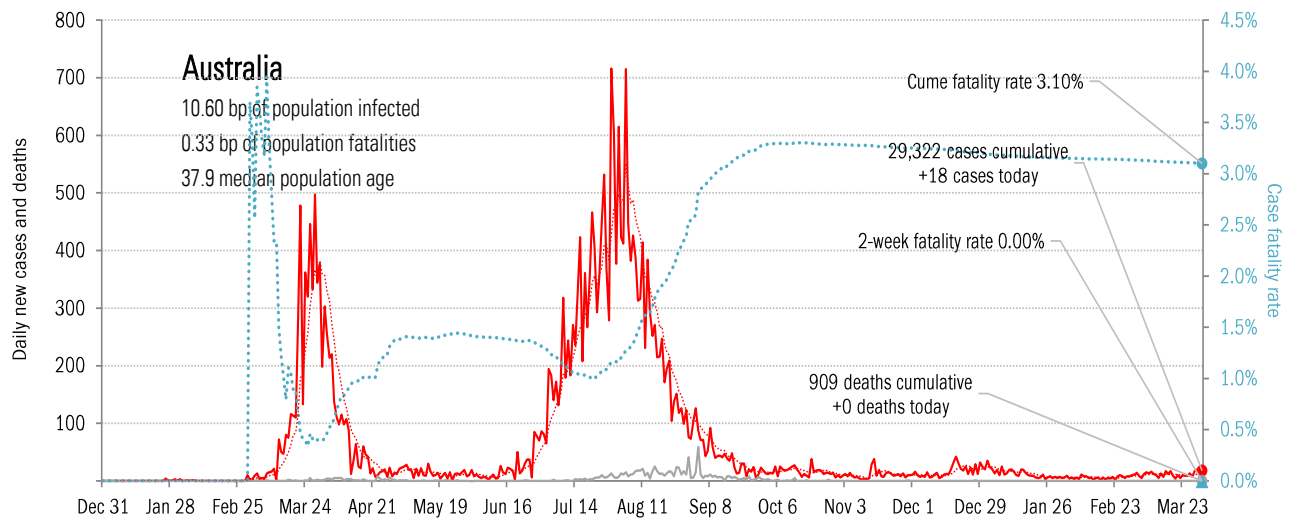
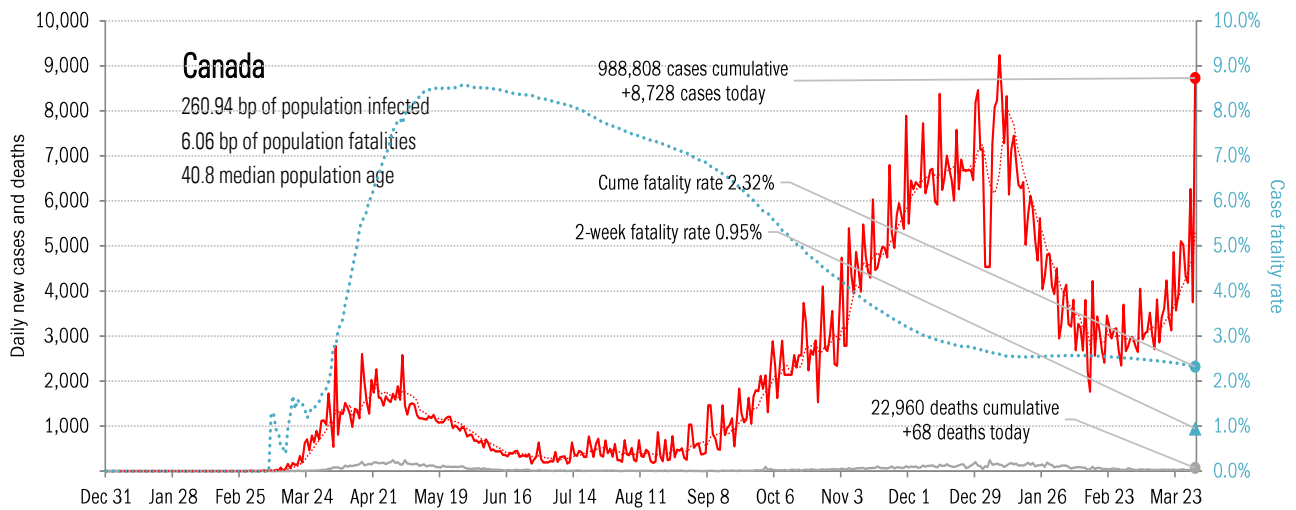
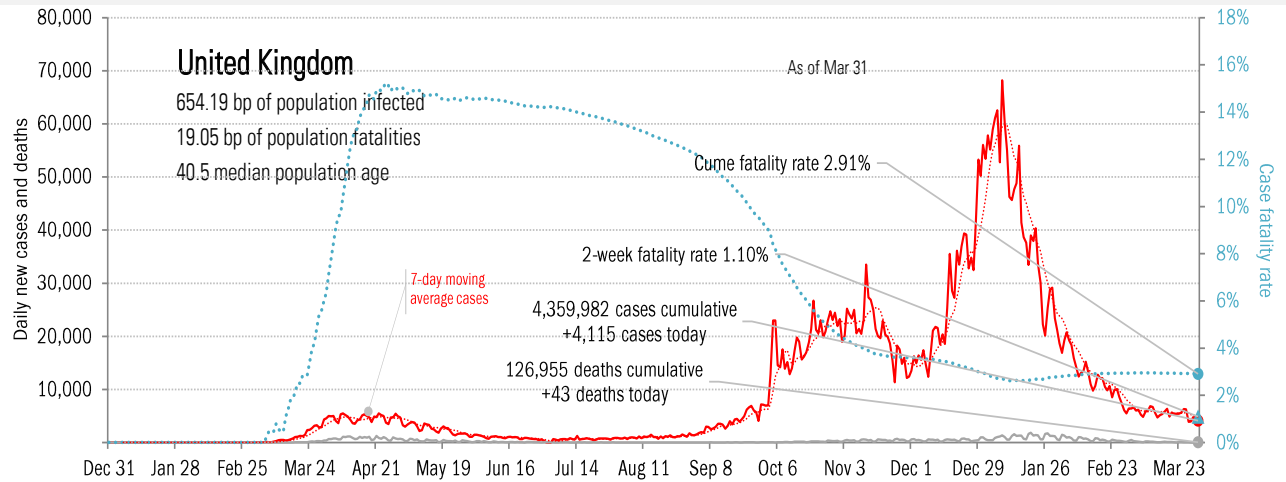
# Impact in the largest economies



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

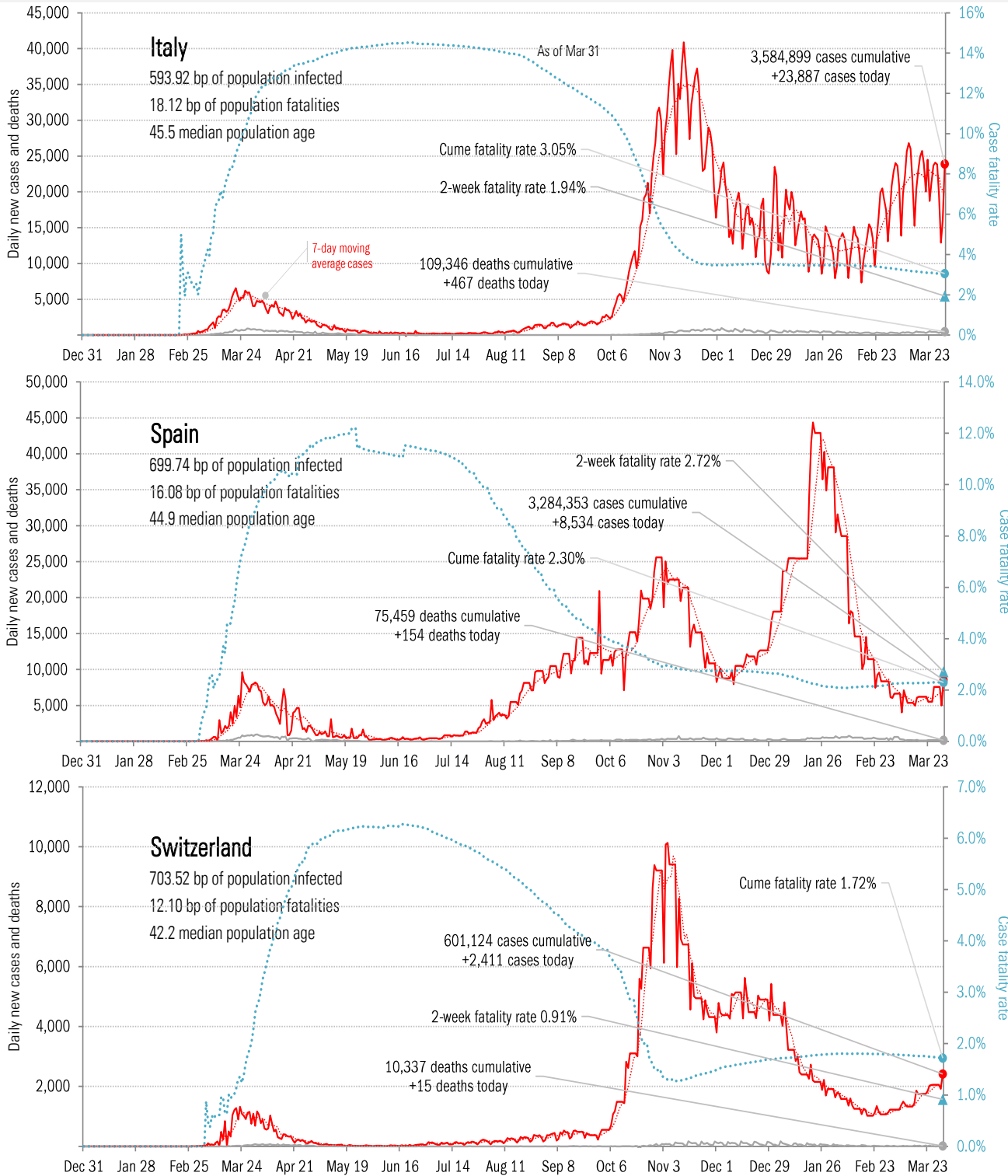


# Impact in The Anglosphere



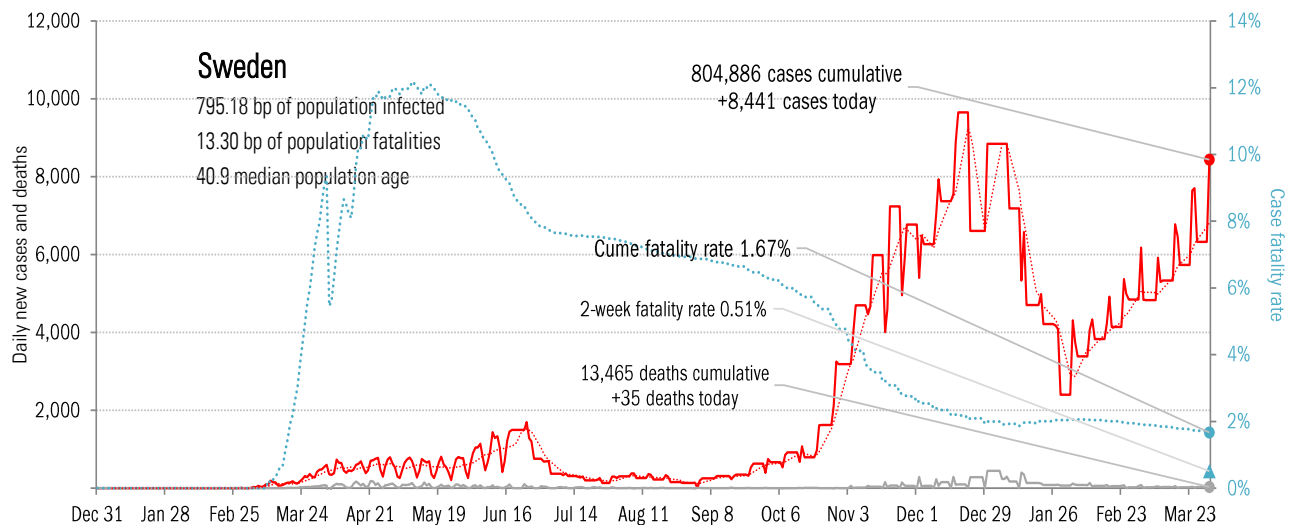
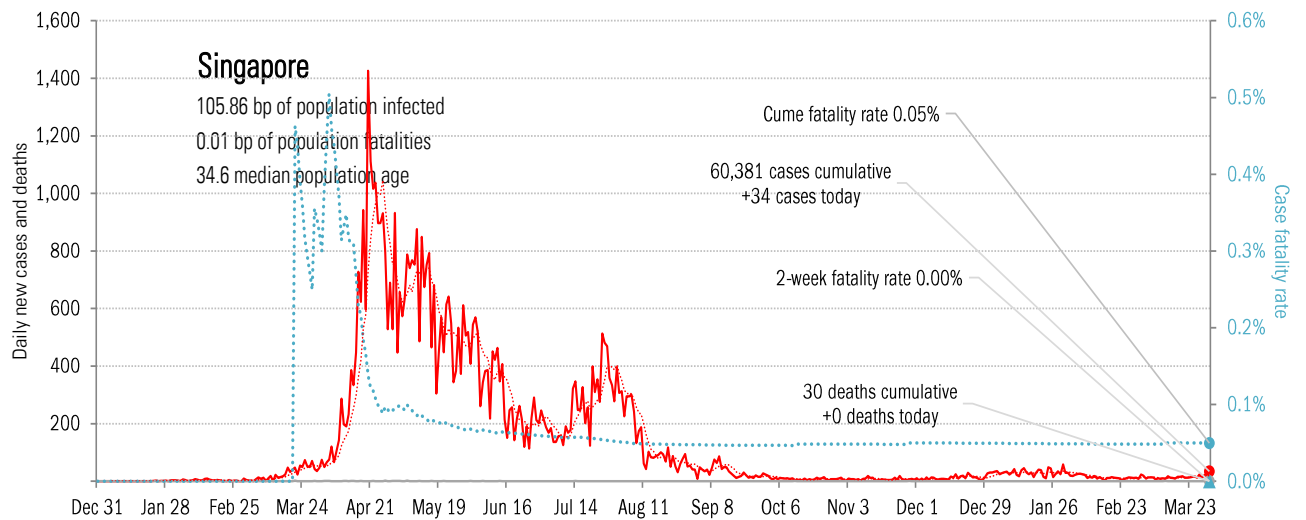
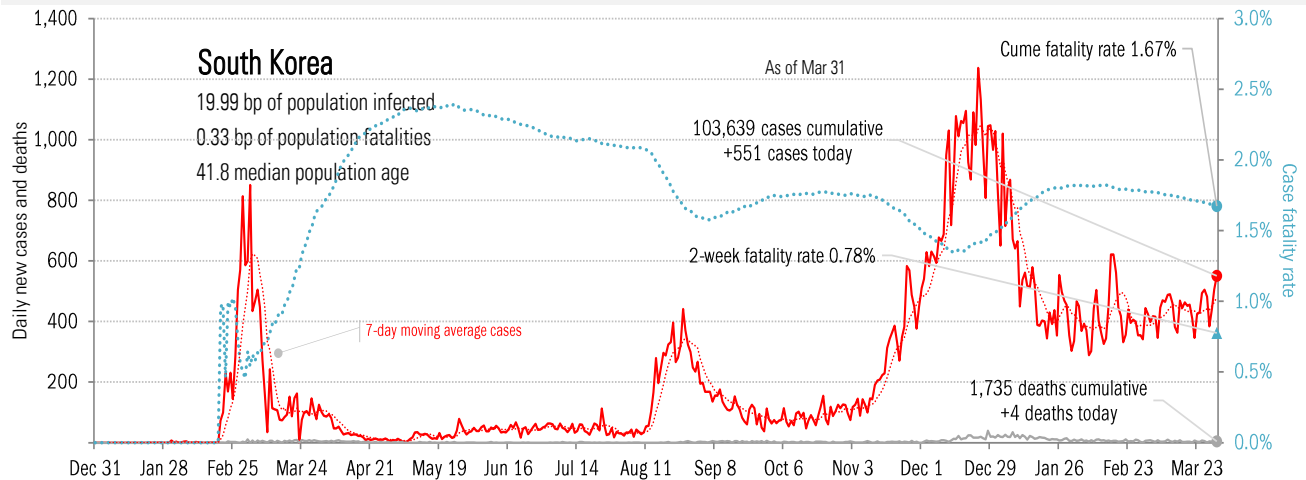
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in continental Europe



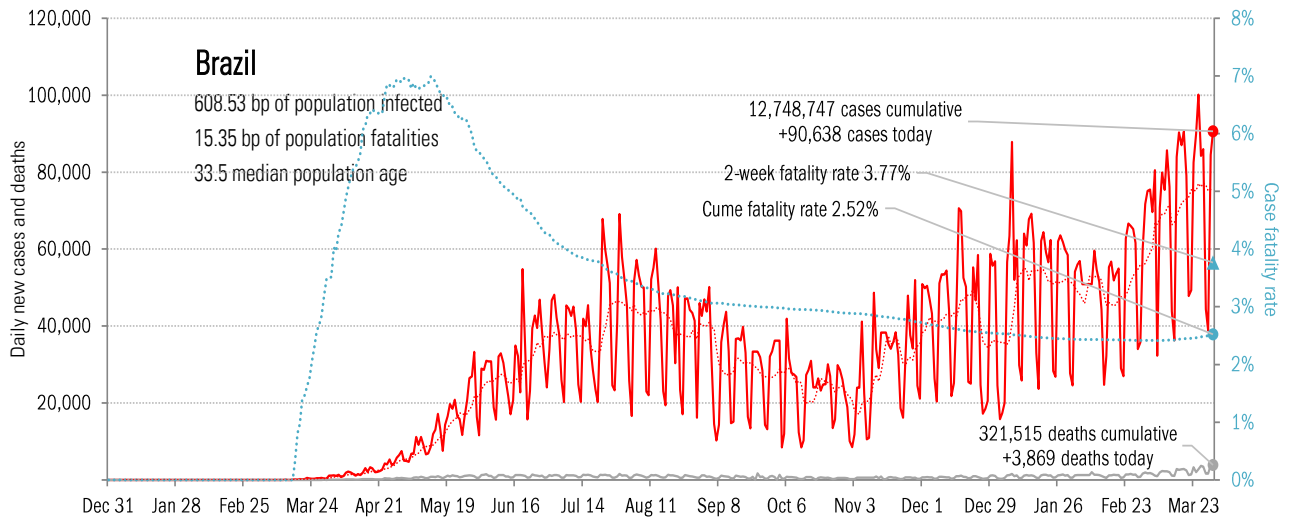
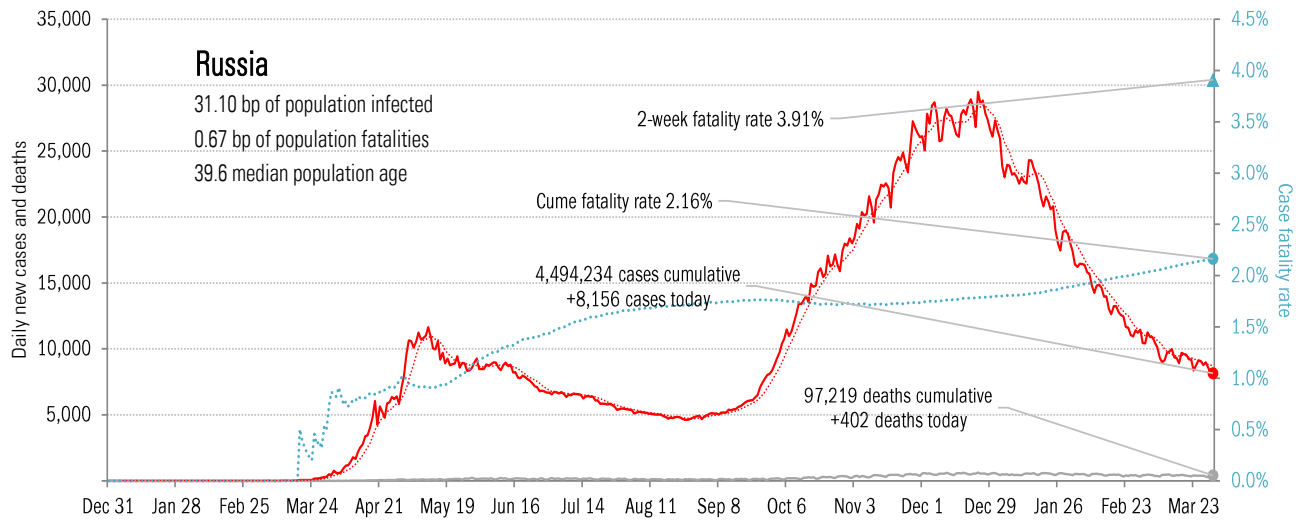
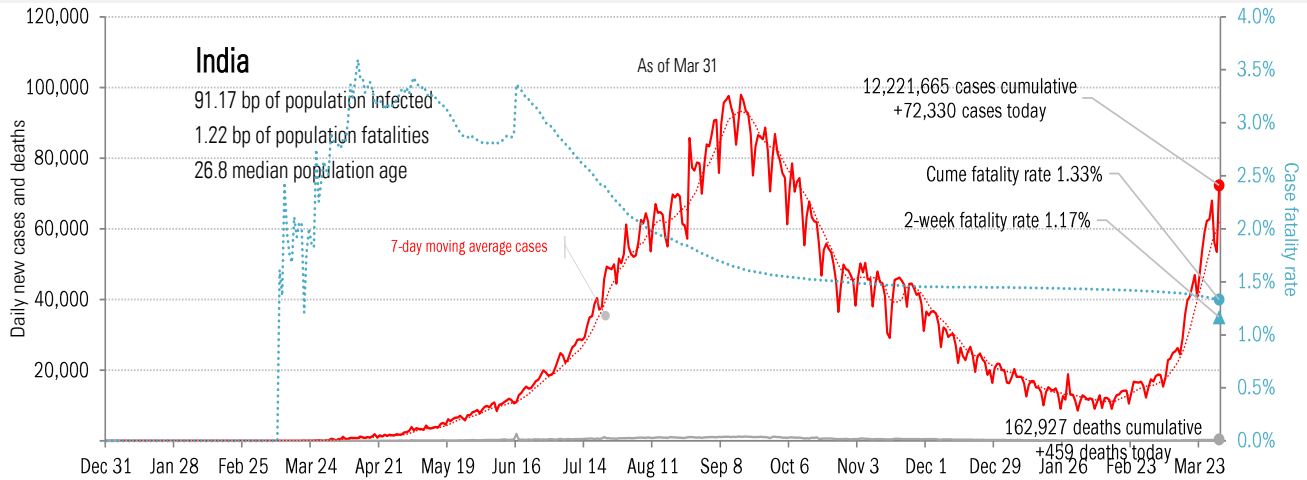
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



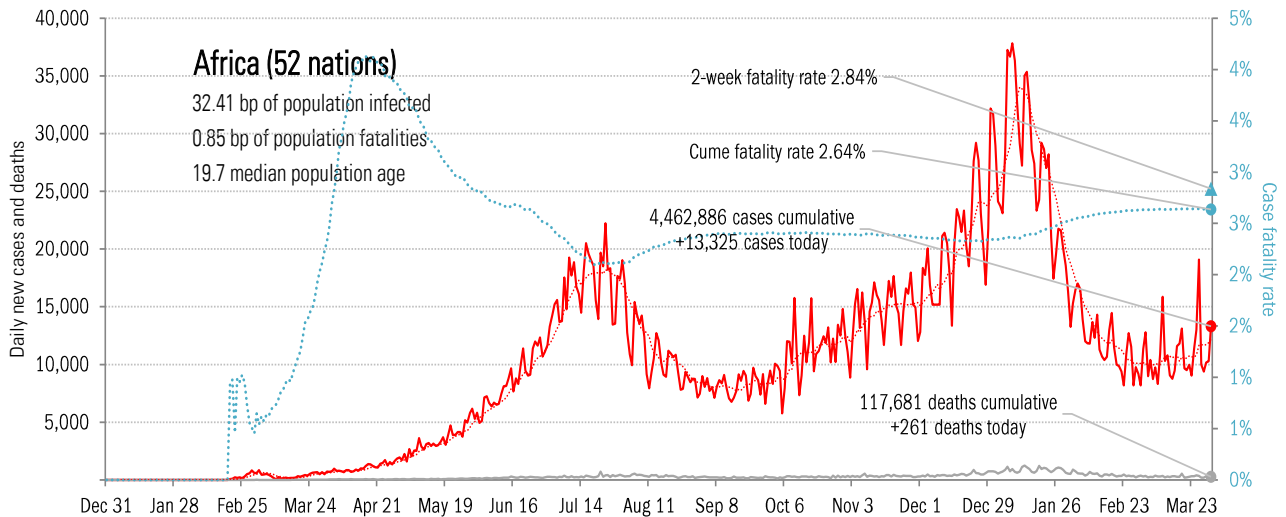
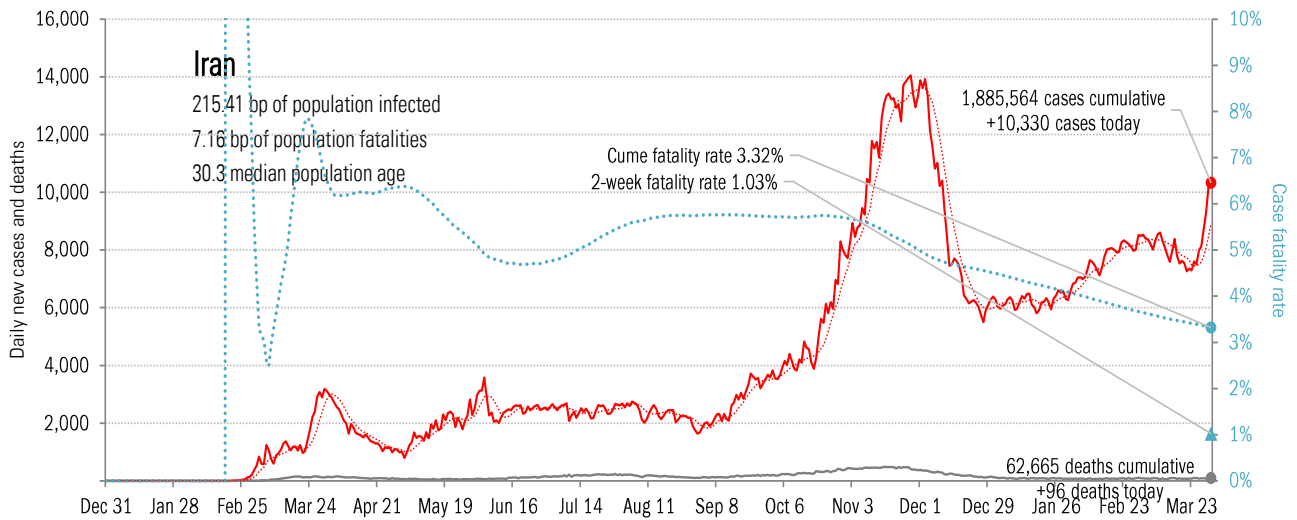
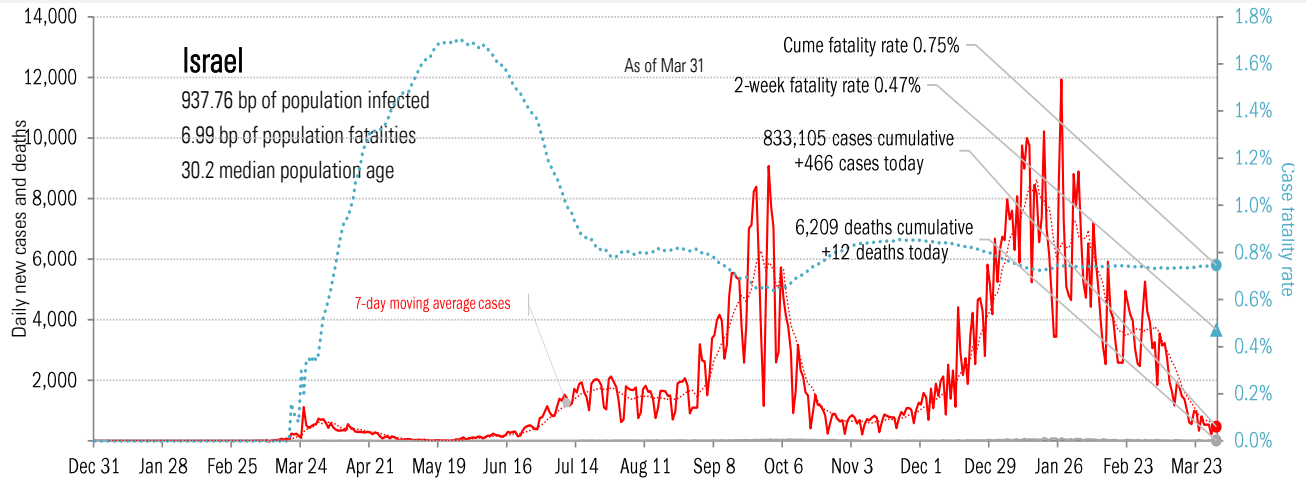
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



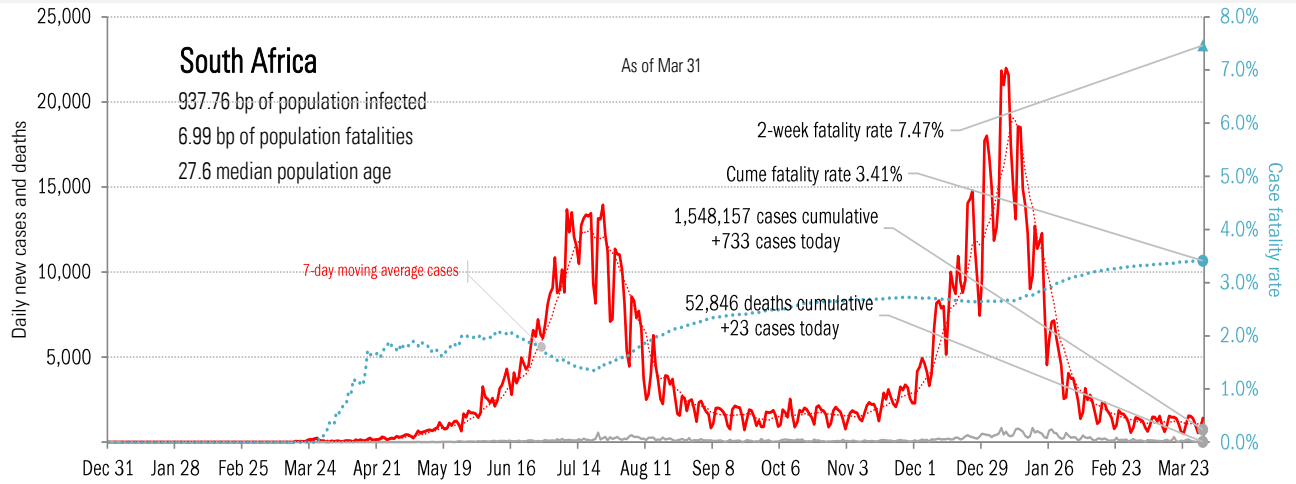
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

# Impact in Africa, continued



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