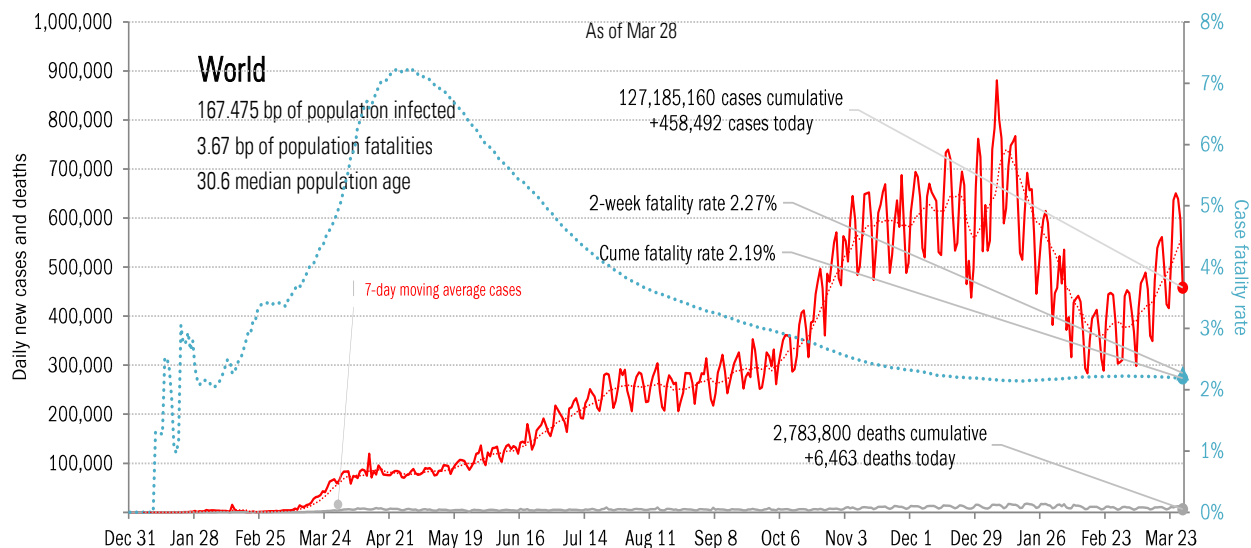
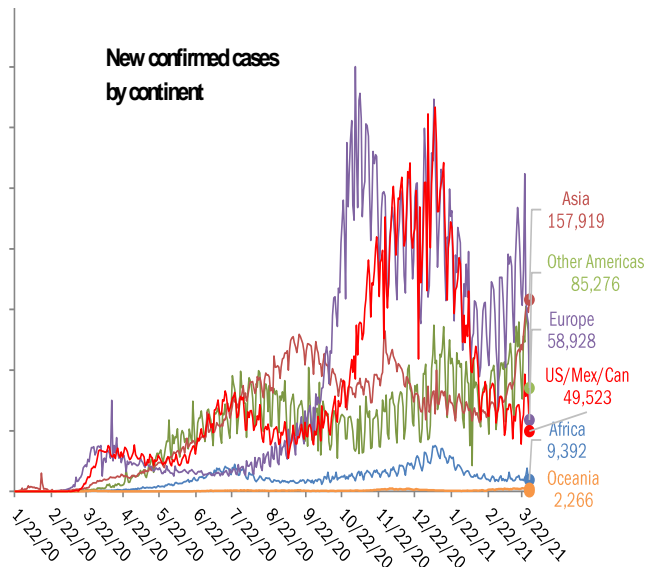


## Data Insights: Covid-2019 Monitor

Monday, March 29, 2021

### The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+68,020	Brazil	+1,656
Brazil	+44,326	United States	+506
United States	+43,694	Russia	+331
France	+37,021	Italy	+297
Poland	+29,266	India	+291
Turkey	+29,058	Peru	+231
Italy	+19,604	Hungary	+220
Philippines	+9,450	Ukraine	+208
Hungary	+9,082	Mexico	+194
Russia	+8,979	Colombia	+165
<b>+298,500</b>		<b>+4,099</b>	
World	+458,492	World	+6,463
Top ten	65%	Top ten	63%



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

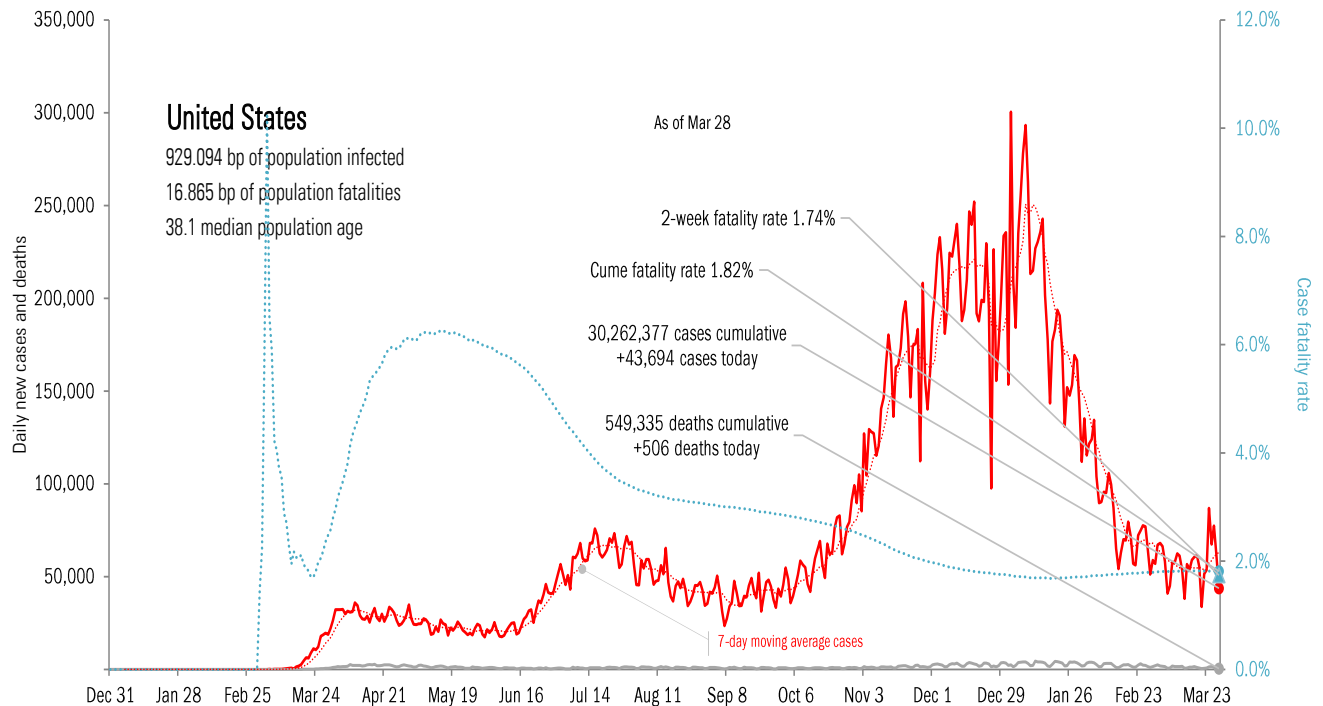
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
NY	+8,910		CA	+134		FL	+95		CA	3,660,713		CA	58,949		TX	225,358		R	94%	MD	20%
FL	+4,943		NY	+89		MI	+84		TX	2,782,735		NY	50,017		CA	221,896		MA	83%	NY	19%
NJ	+4,509		TX	+54		NY	+74		FL	2,044,005		TX	48,093		FL	150,903		MD	82%	MI	16%
TX	+3,271		FL	+36		MD	+39		NY	1,850,732		FL	33,178		NY	113,540		CT	81%	ID	14%
IL	+2,247		MA	+29		CH	+37		IL	1,237,732		PA	24,971		GA	94,220		PA	79%	MS	14%
CA	+1,999		IL	+23		GA	+28		GA	1,055,256		NJ	24,389		CH	75,069		MI	79%	TX	14%
MA	+1,975		KY	+23		NJ	+26		PA	1,013,731		IL	23,521		PA	73,163		MO	78%	GA	13%
VA	+1,392		VA	+20		CO	+20		CH	1,011,622		GA	18,926		KY	67,976		GA	78%	WV	13%
MD	+1,335		SC	+18		IN	+20		NC	905,528		CH	18,525		IL	67,956		FL	78%	NJ	13%
MN	+1,225		UT	+13		TN	+19		NJ	896,652		MA	17,115		AZ	58,156		NC	77%	DC	12%
+31,806			+439			+442			16,458,706			317,684			1,148,237						
All states	+43,694		+506			+295			All states	30,262,377		549,335			2,041,448			All states	70%	67%	
Top ten	73%		87%			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	
PA	-5,353	GA	-77	AL	-80	IA	+74 bp
MI	-5,245	TX	-38	PA	-75	MN	+73 bp
WA	-1,449	CA	-37	CA	-56	NM	+71 bp
FL	-940	MI	-24	NC	-32	ND	+65 bp
CH	-671	NJ	-17	MA	-25	SD	+64 bp



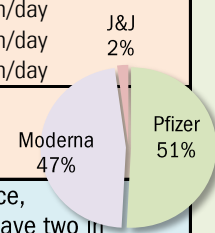
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

US overall	Over last day	Share pop full immunization
188.97 million doses distributed	+0.00 million/day	United States 15.4%
149.58 million doses administered	+3.40 million/day	United Kingdom 5.2%
97.04 million persons partially immunized	+1.98 million/day	France 3.9%
53.86 million persons fully immunized	+1.51 million/day	Spain 5.4%
7.72 million shots long-term care residents/staff	+0.01 million/day	Germany 4.6%
		Italy 4.9%
		Australia 0.6%
		Israel 54.5%
		Canada 1.8%
		Japan 0.0%
		Africa 0.3%
		India 0.6%
		Brazil 1.9%

79.2% of distributed doses administered  
 29.0% of US pop partial  
 100% of LTC partial

16.1% full immunity  
 63.2% full immunity



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

**149 days**  
by Aug 24, 2021

**54 days**  
US will achieve herd immunity in  
by May 21, 2021

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

AK
78.0%
33.5%
21.9%

Global data differs due to sources

China NA	ME
	58.9%
	33.2%
	18.9%

WI	VT	NH
51.5%	63.0%	54.7%
30.8%	32.0%	30.0%
17.9%	17.4%	16.8%

WA	ID	MT	ND	MN	IL	MI	NY	MA
54.0%	50.9%	59.2%	57.4%	51.5%	54.3%	52.6%	57.1%	55.8%
28.7%	25.1%	29.6%	31.0%	30.2%	29.7%	27.3%	29.6%	32.7%
16.8%	15.8%	18.0%	19.6%	17.8%	15.8%	16.2%	15.2%	17.8%

OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
52.3%	50.3%	61.2%	65.7%	53.8%	49.4%	54.6%	56.0%	54.0%	62.0%	58.2%
27.1%	26.9%	25.5%	34.0%	29.9%	24.5%	27.9%	30.6%	31.8%	33.7%	31.3%
15.8%	15.3%	16.7%	21.6%	18.6%	16.1%	16.1%	15.7%	17.3%	19.1%	19.4%

CA	UT	CO	NE	MO	KY	WV	VA	MD	DE
55.3%	46.8%	53.1%	55.4%	53.1%	53.1%	59.6%	52.6%	55.2%	57.0%
29.3%	24.5%	28.5%	29.4%	24.9%	30.2%	29.3%	29.2%	29.6%	29.3%
15.1%	10.9%	16.8%	17.0%	14.2%	16.4%	18.5%	15.9%	16.0%	15.4%

AZ	NM	KS	AR	TN	NC	SC	DC
54.5%	63.8%	56.4%	55.1%	52.1%	54.2%	51.5%	69.7%
28.5%	37.1%	29.1%	25.3%	24.1%	28.2%	26.3%	24.9%
16.2%	22.8%	16.2%	13.4%	13.1%	15.8%	14.3%	12.5%

OK	LA	MS	AL	GA
64.0%	54.9%	54.3%	51.7%	50.7%
30.1%	25.3%	23.7%	22.6%	22.6%
17.1%	15.5%	13.9%	12.8%	11.9%

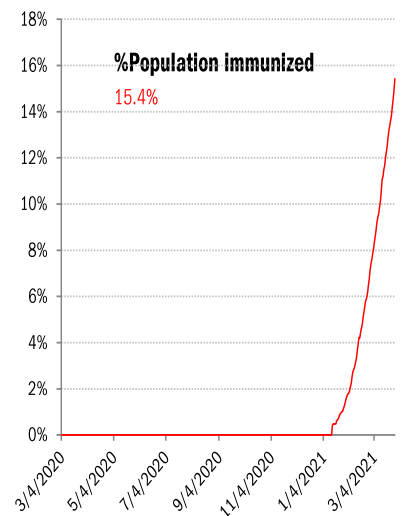
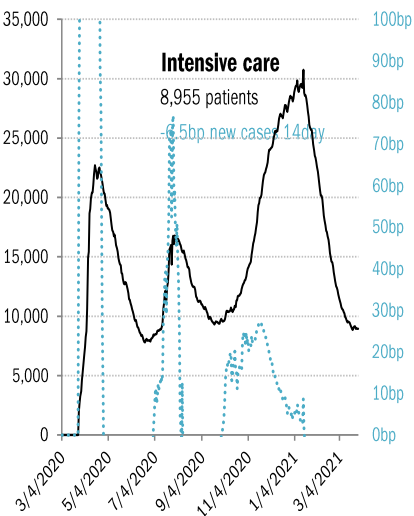
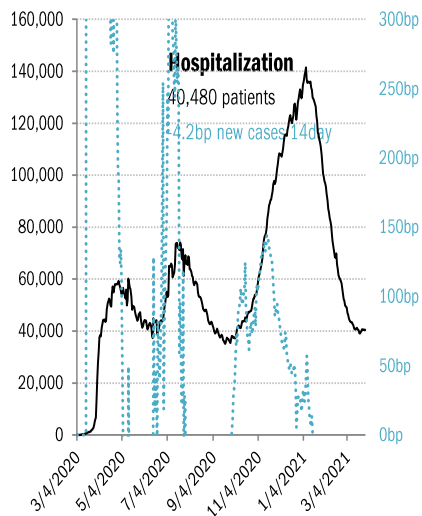
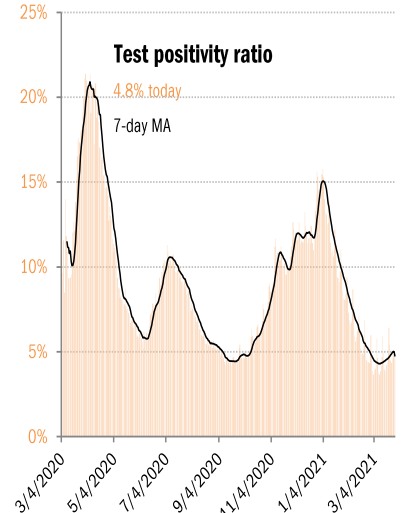
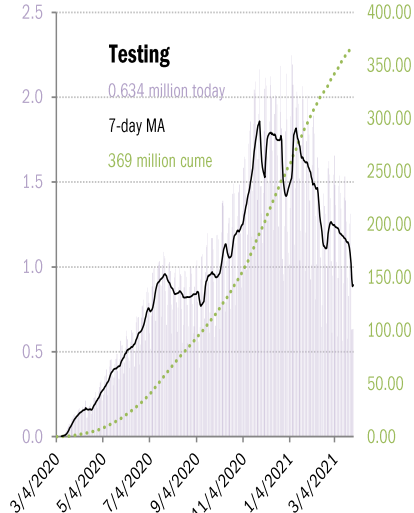
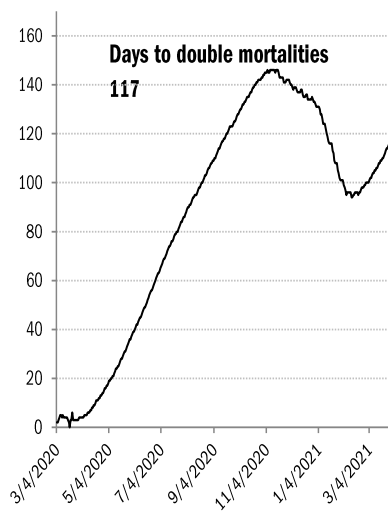
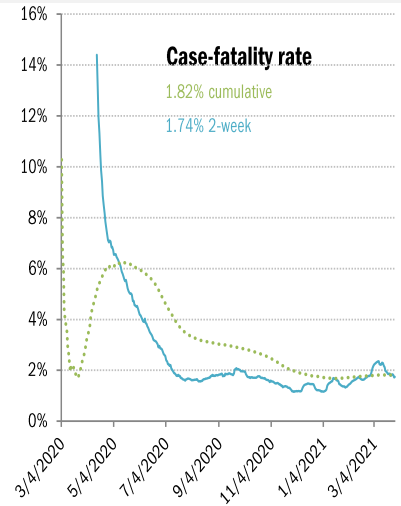
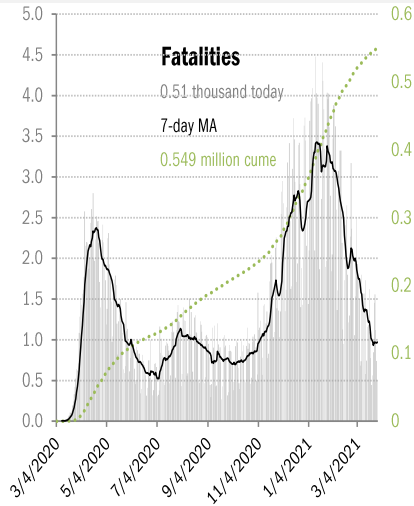
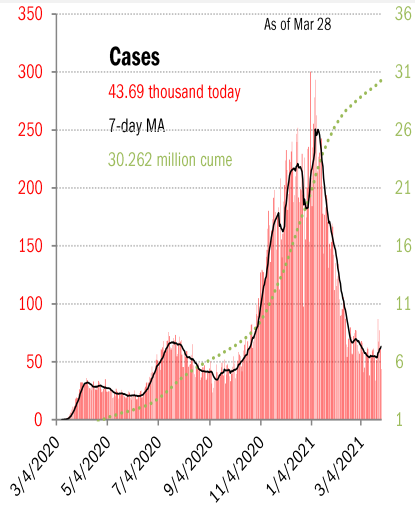
TX	FL	PR
50.6%	56.9%	58.9%
24.5%	27.2%	21.3%
12.7%	15.1%	12.1%

As of Mar 28

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

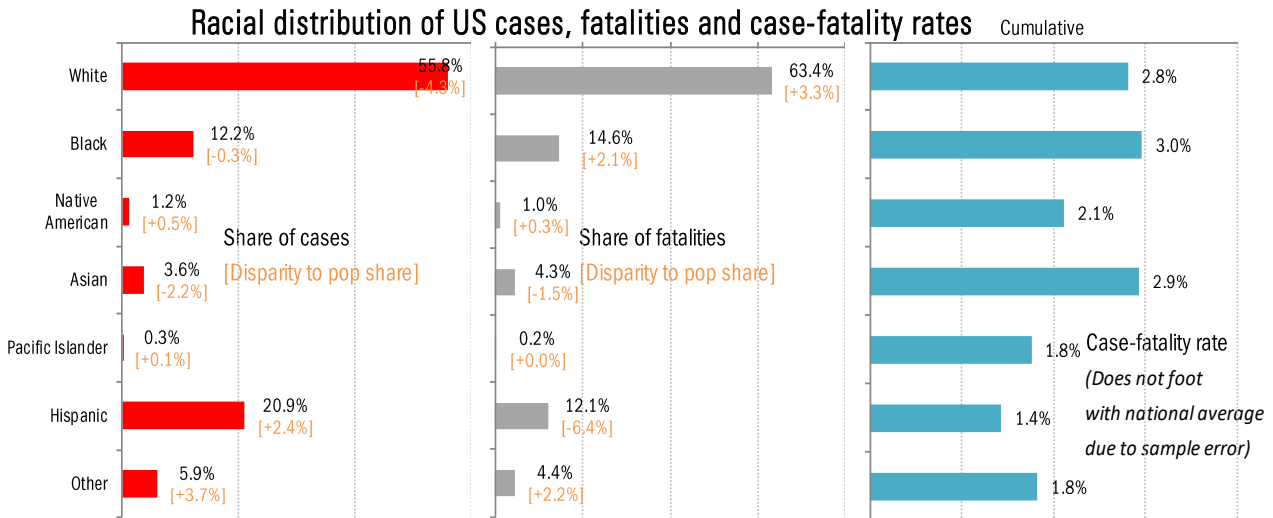
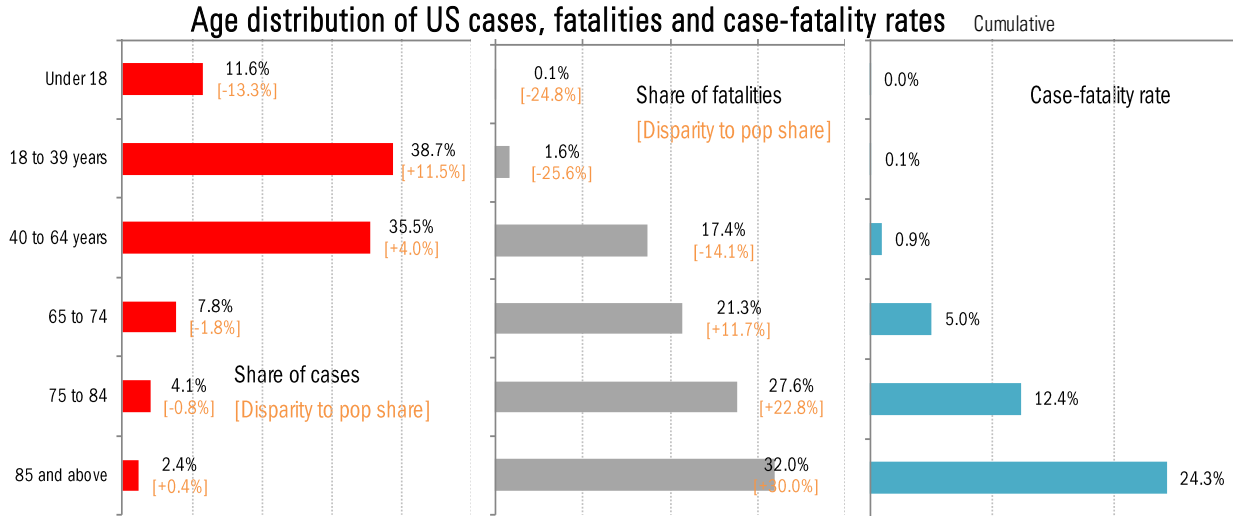
# US deep-dive

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

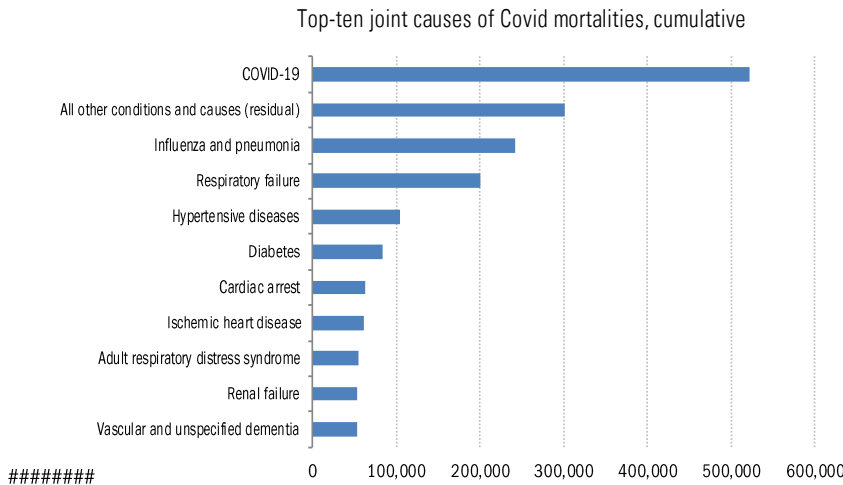


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

# 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

[Russia Trumpets Vaccine Exports, While Quietly Importing Doses](#)

Andrew E. Kramer  
*New York Times*  
March 28, 2021

[Covid Lessons From Bush's Effort Against AIDS](#)

Scott Gottlieb  
*Wall Street Journal*  
March 28, 2021

[Watch Out for a Vaccine Patent Heist](#)

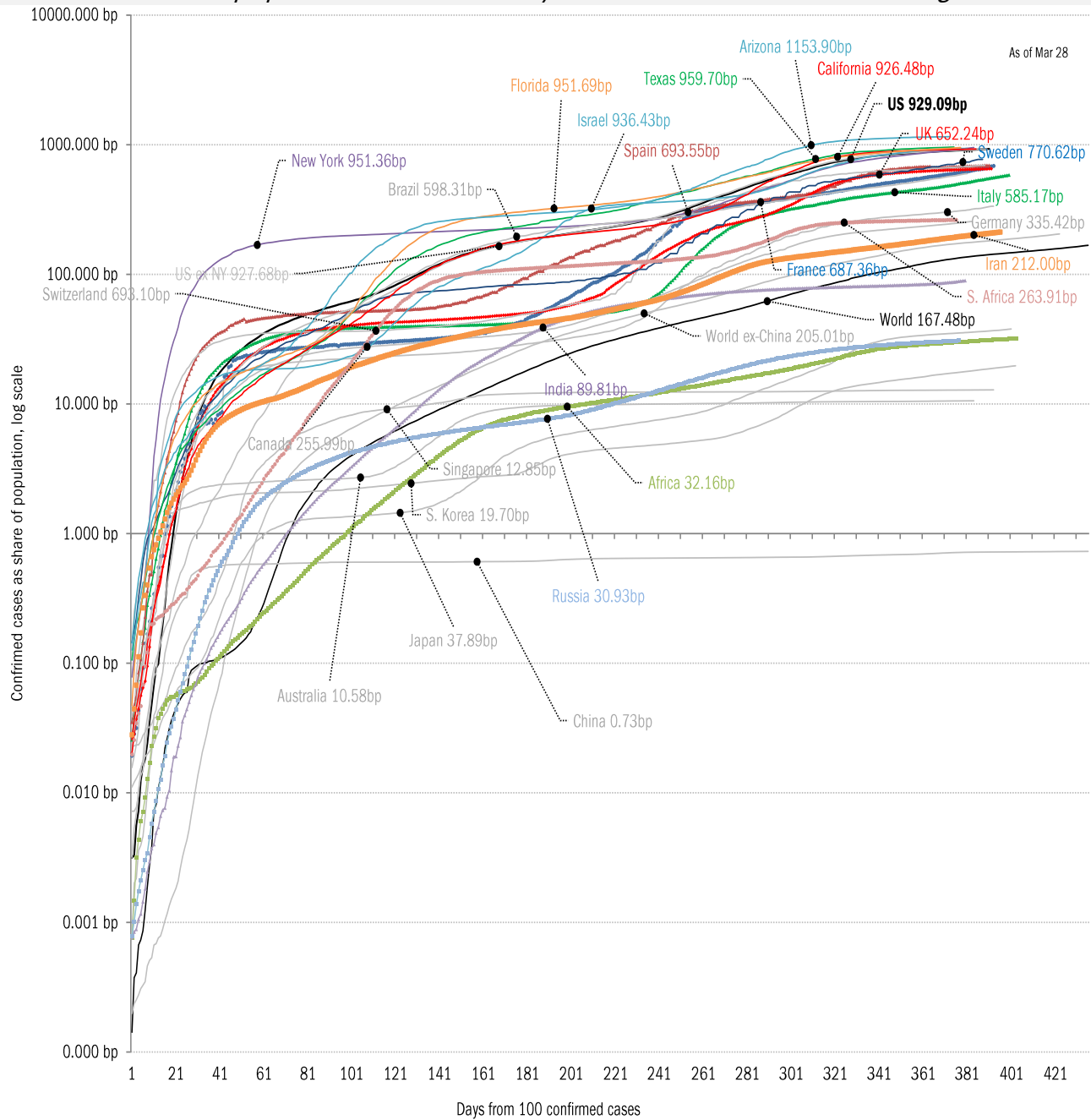
*Wall Street Journal*  
March 28, 2021

## Meme of day



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

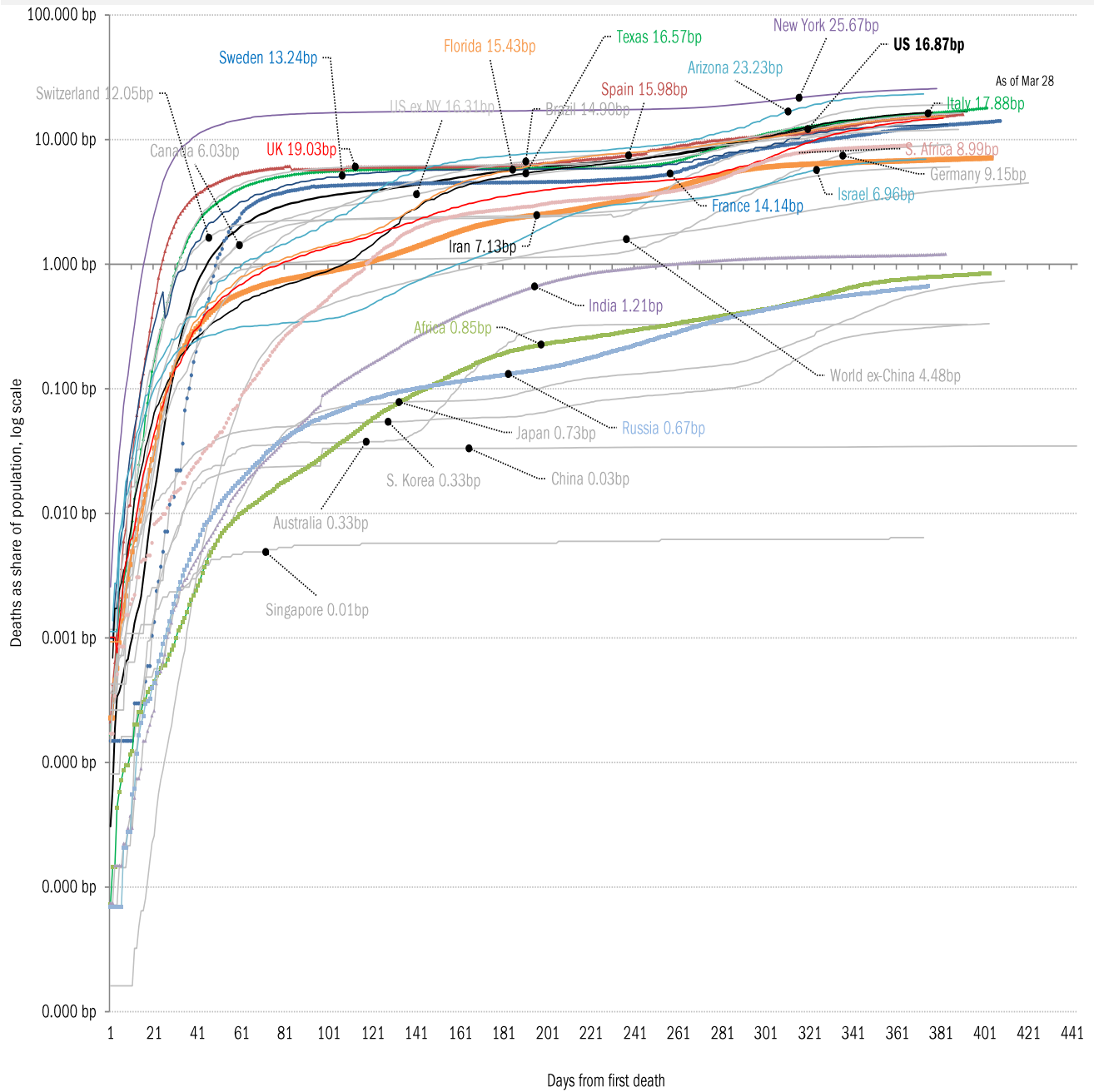
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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

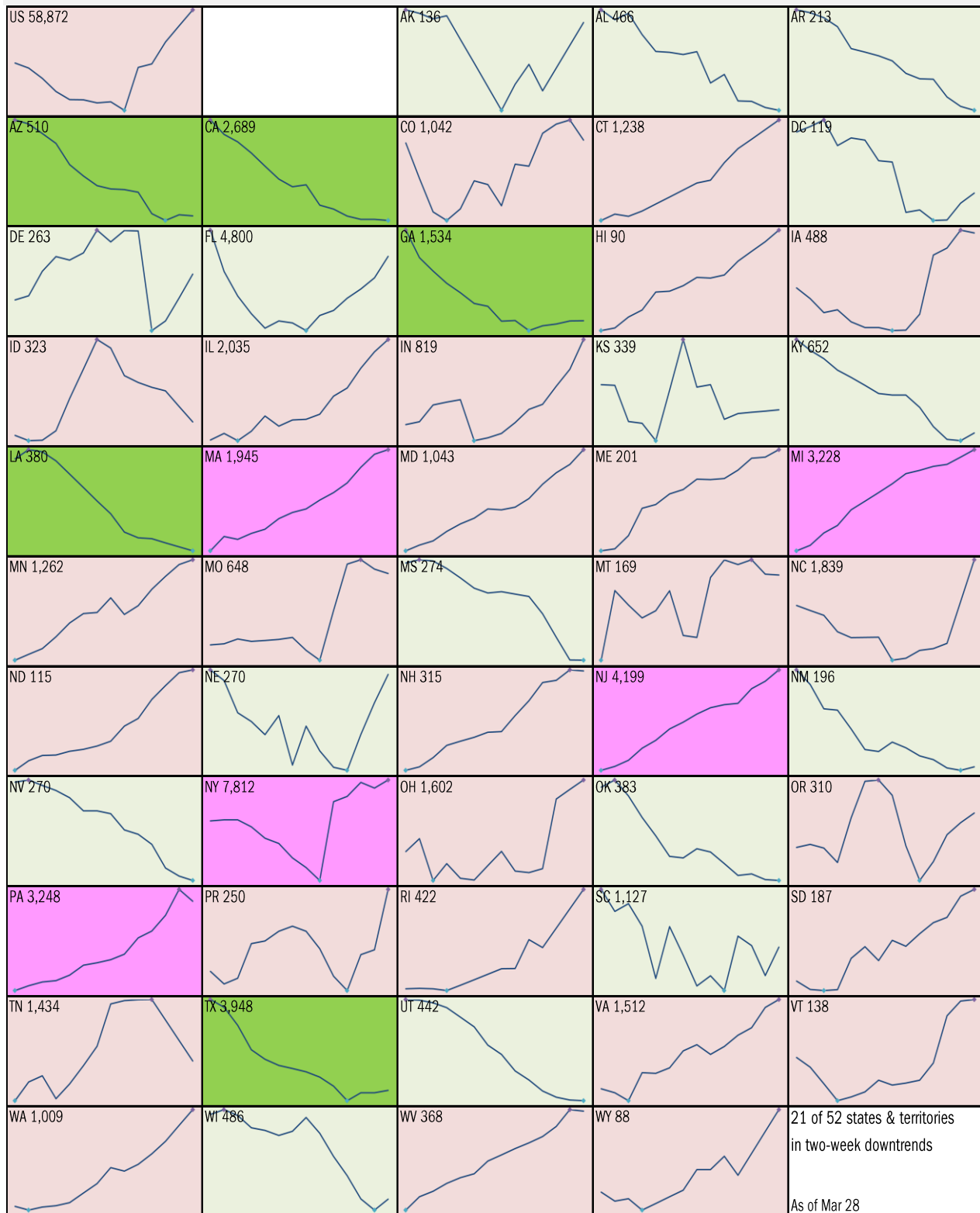
Vertical: days to double deaths Horizontal: days from first death

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

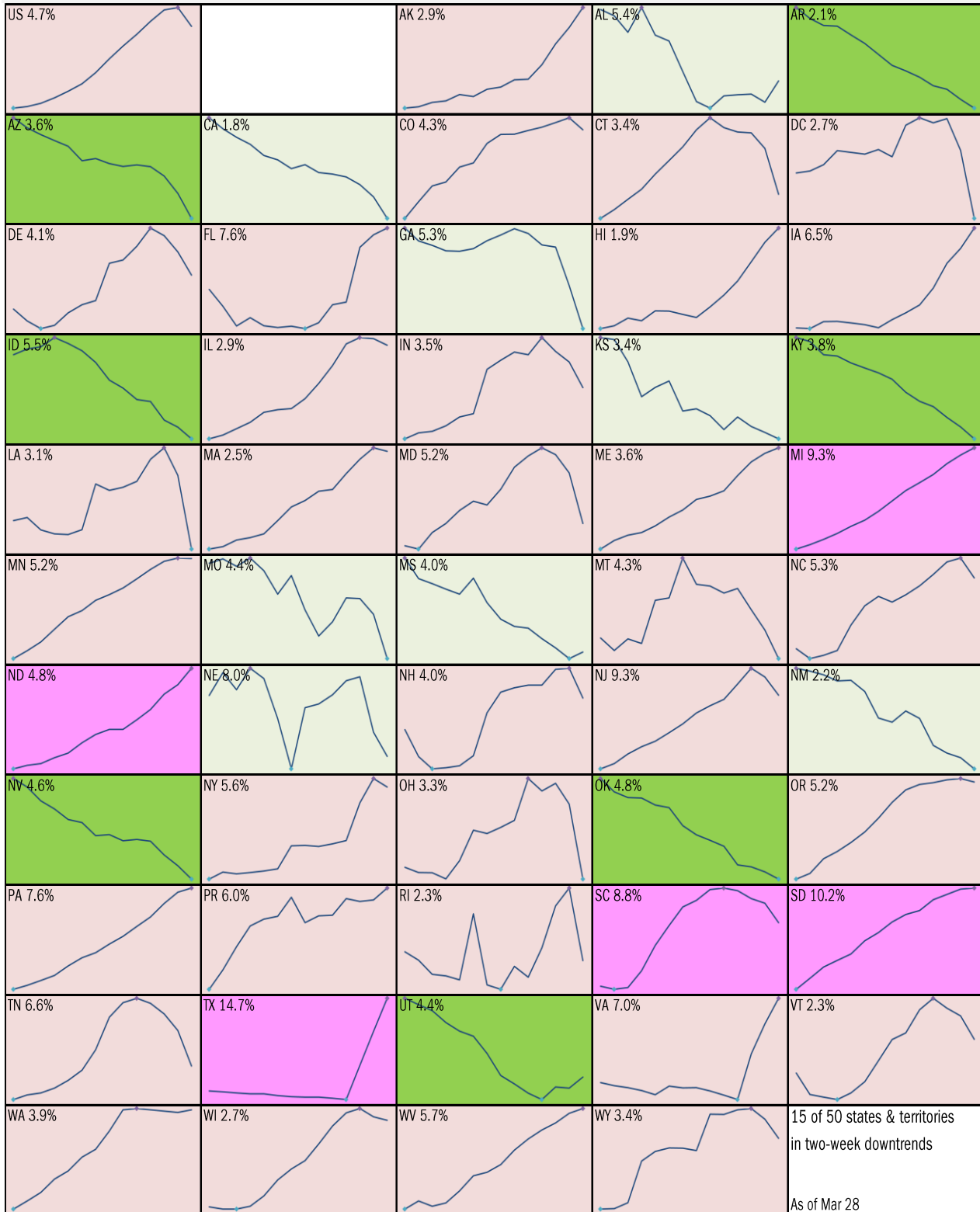


Source: [Johns Hopkins](#), TrendMacro calculations

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

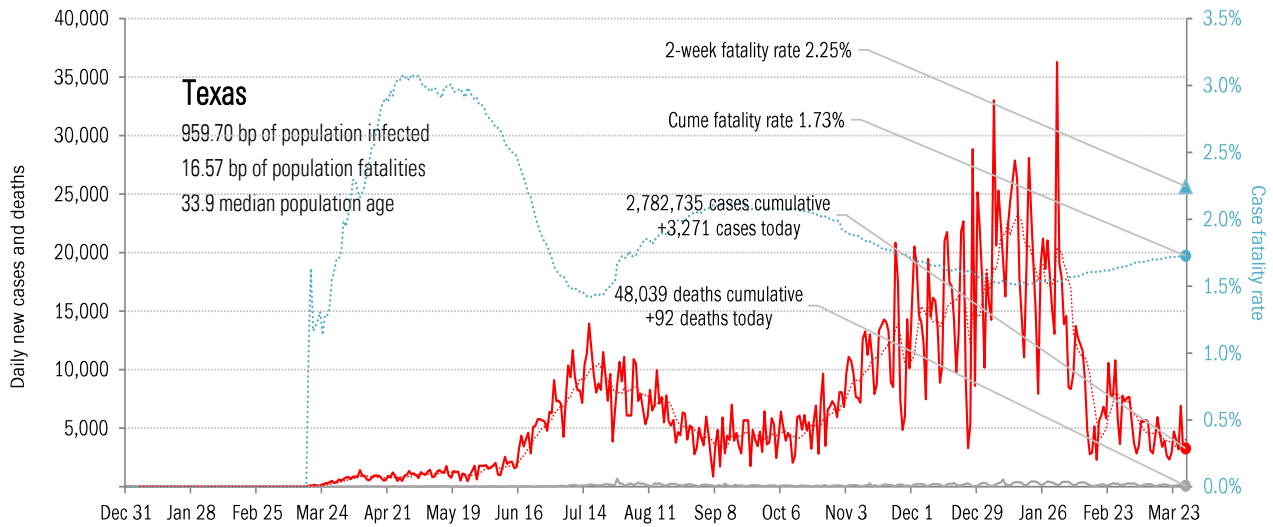
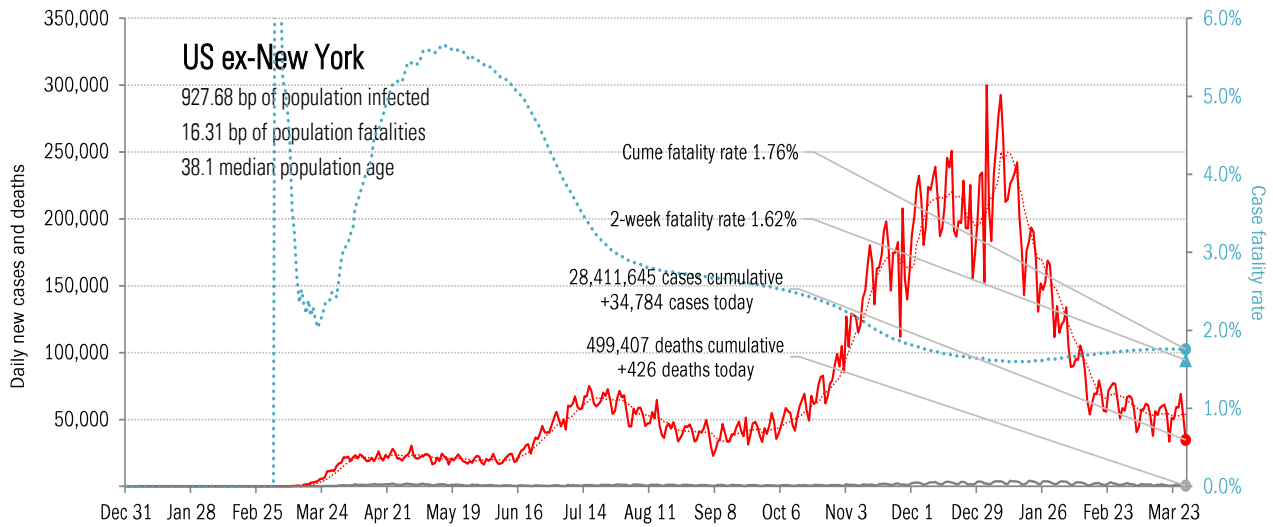
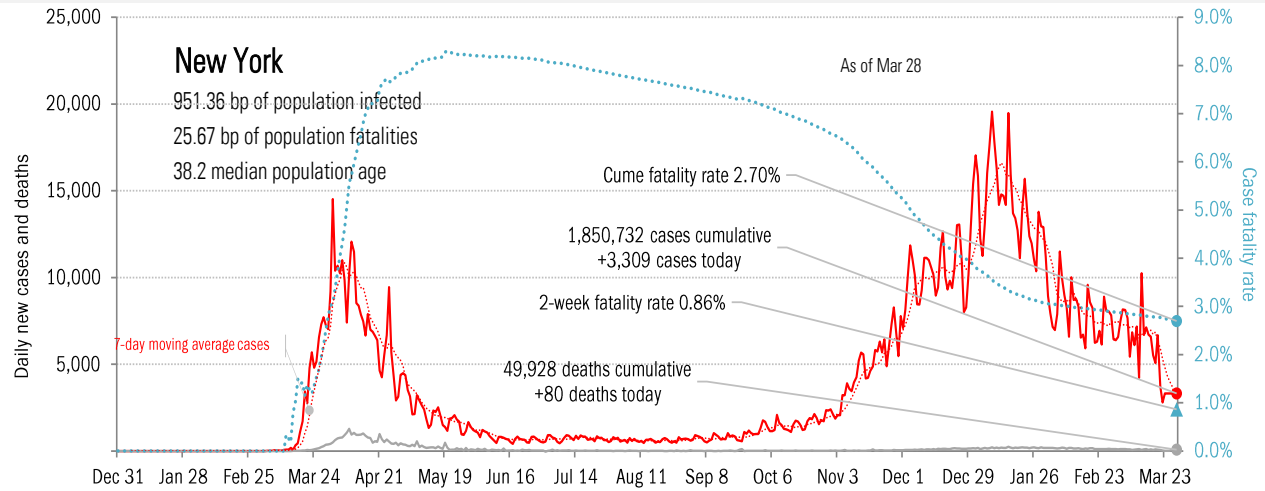
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



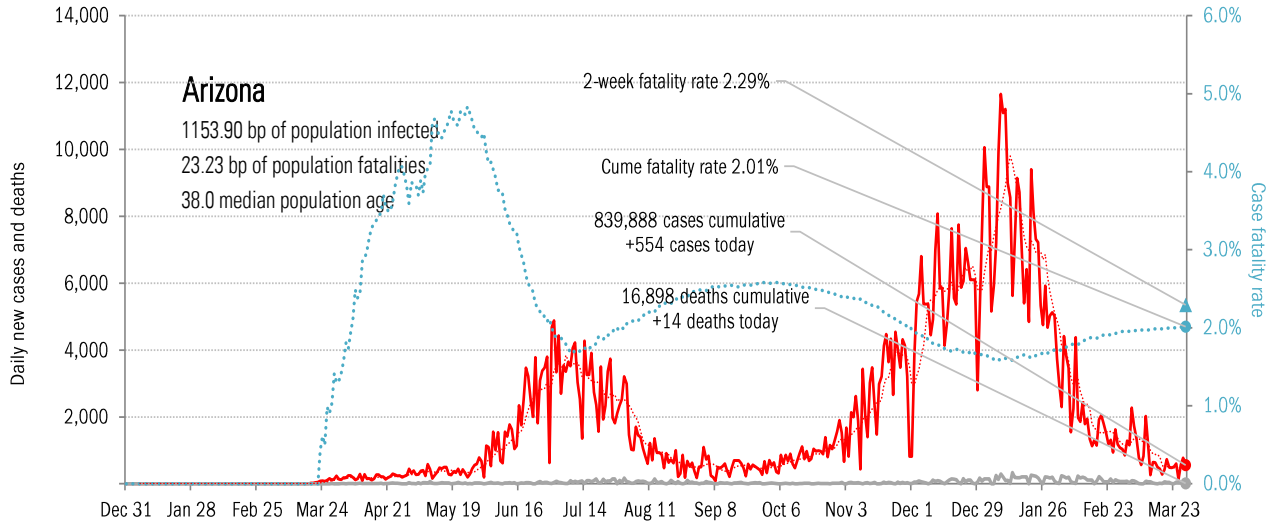
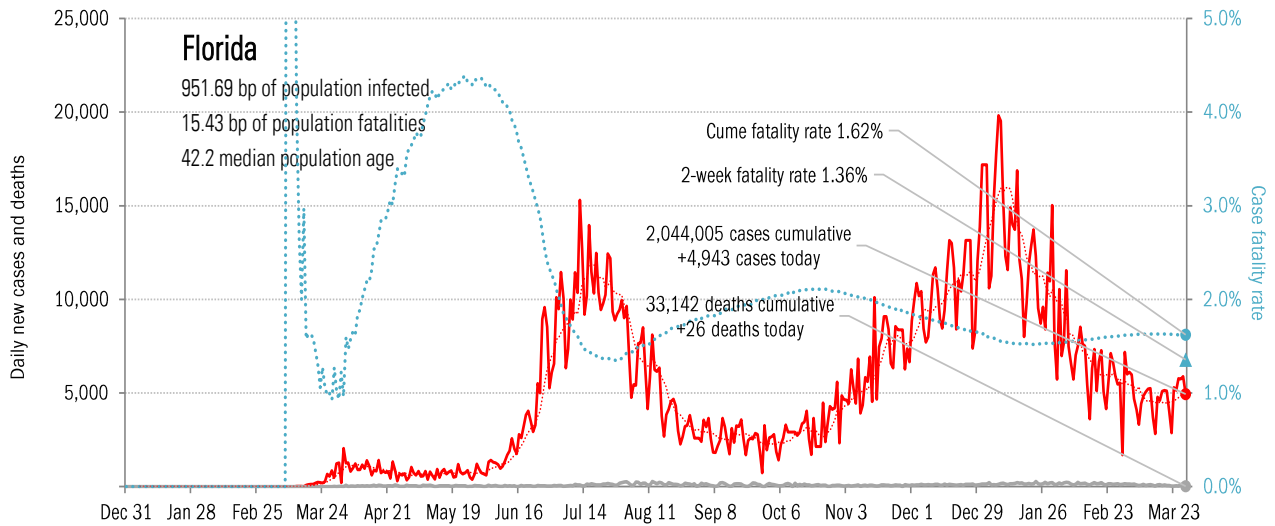
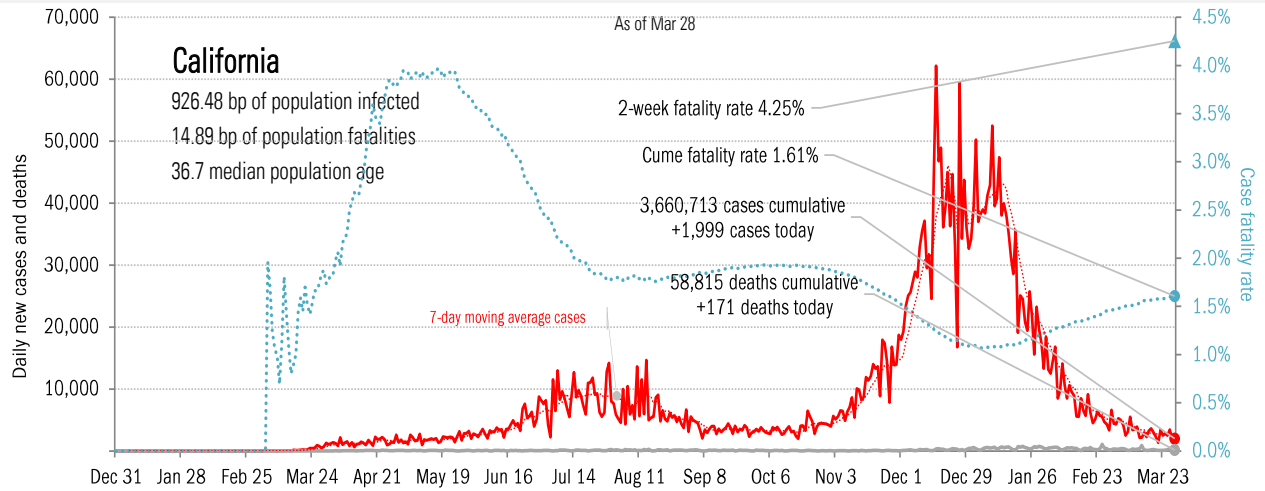
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



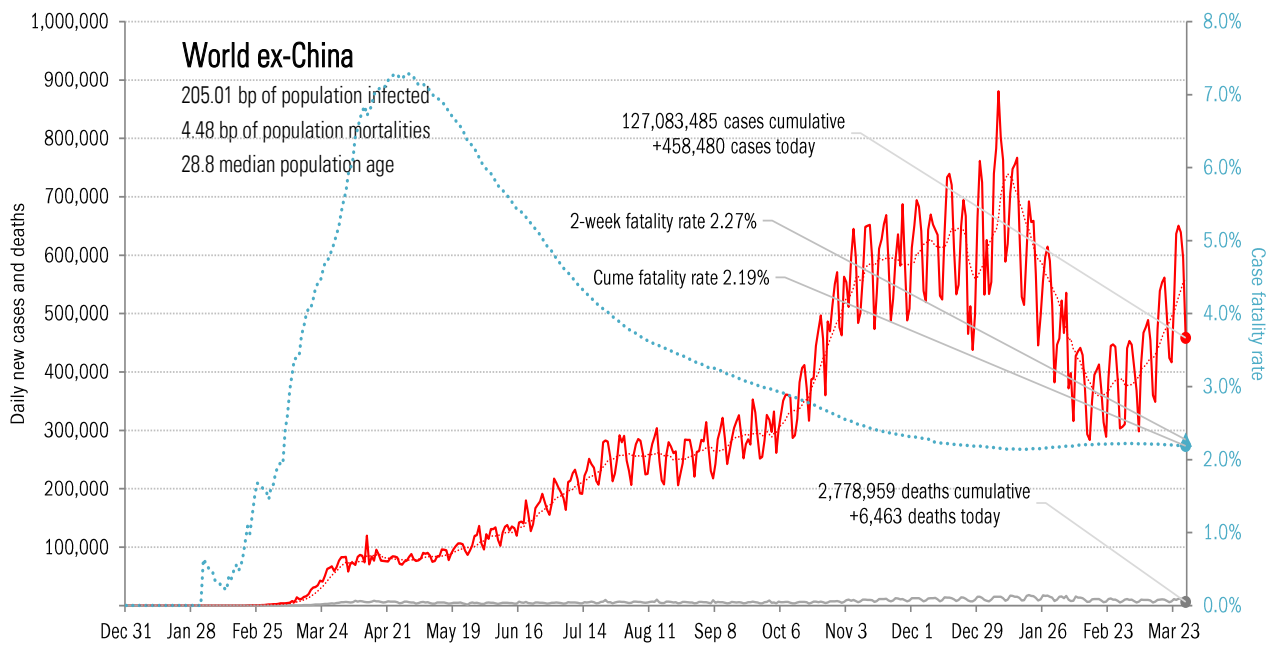
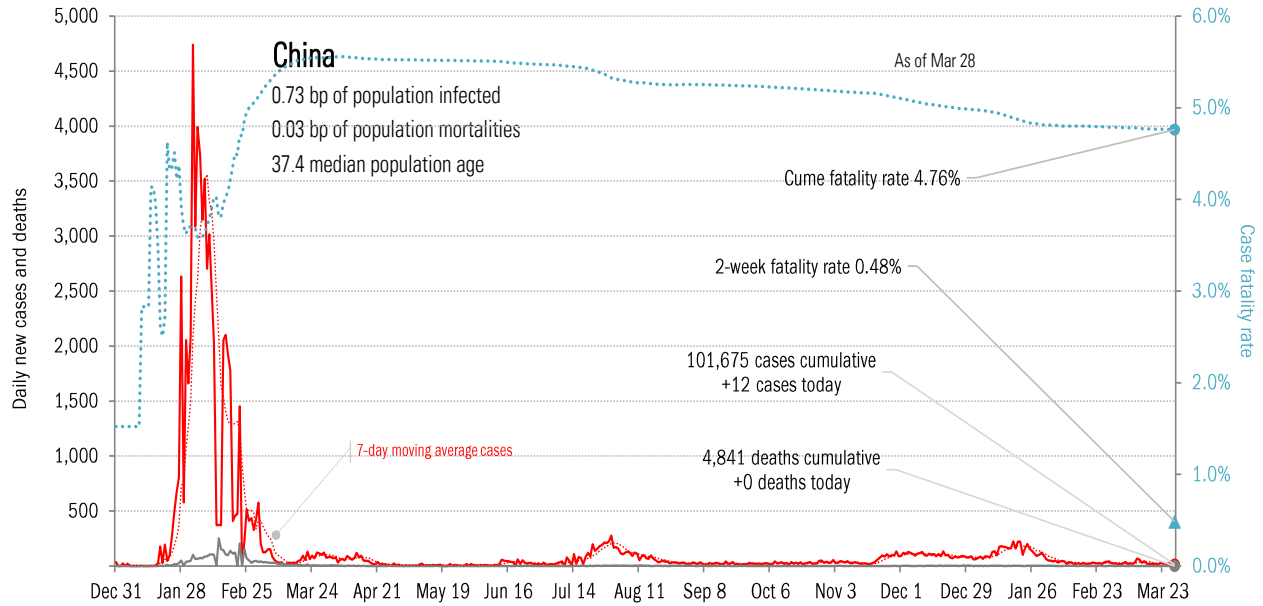
Source: [Johns Hopkins](#), TrendMacro calculations

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



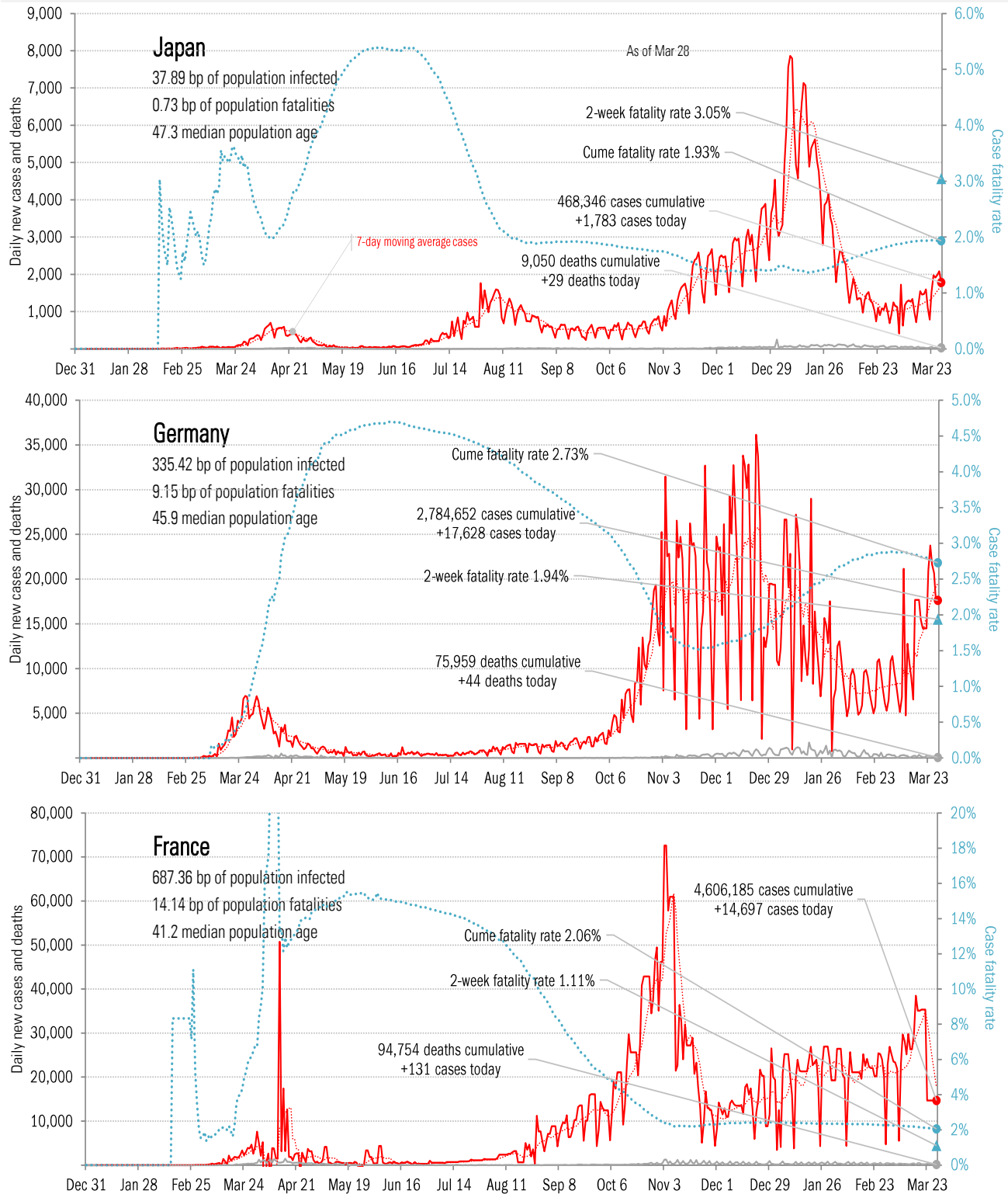
Source: [Johns Hopkins](#), TrendMacro calculations

# Patient zero... and then everyone else



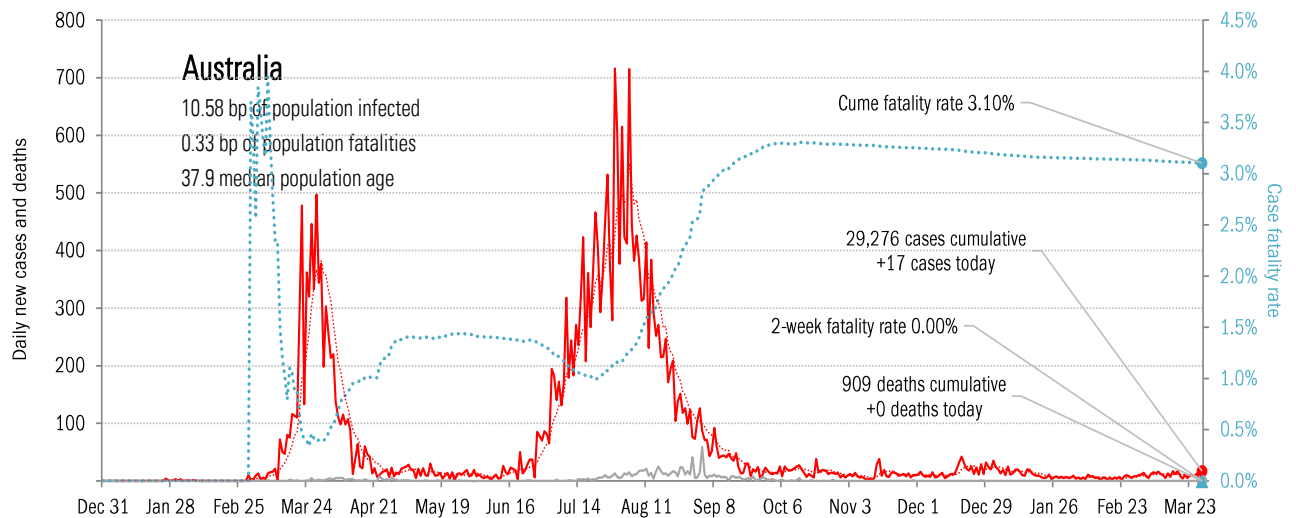
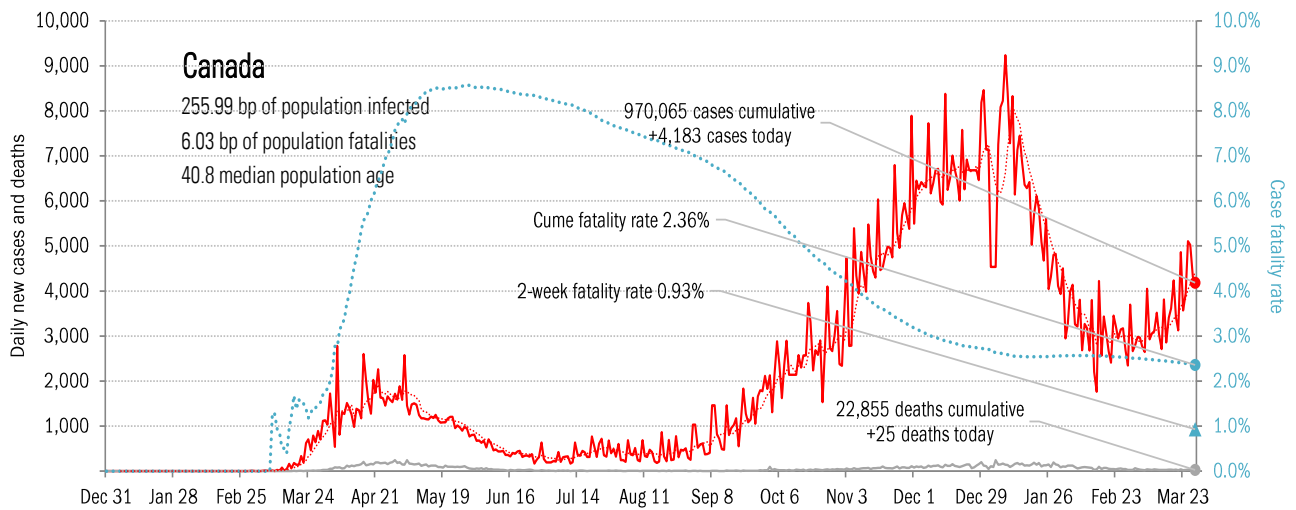
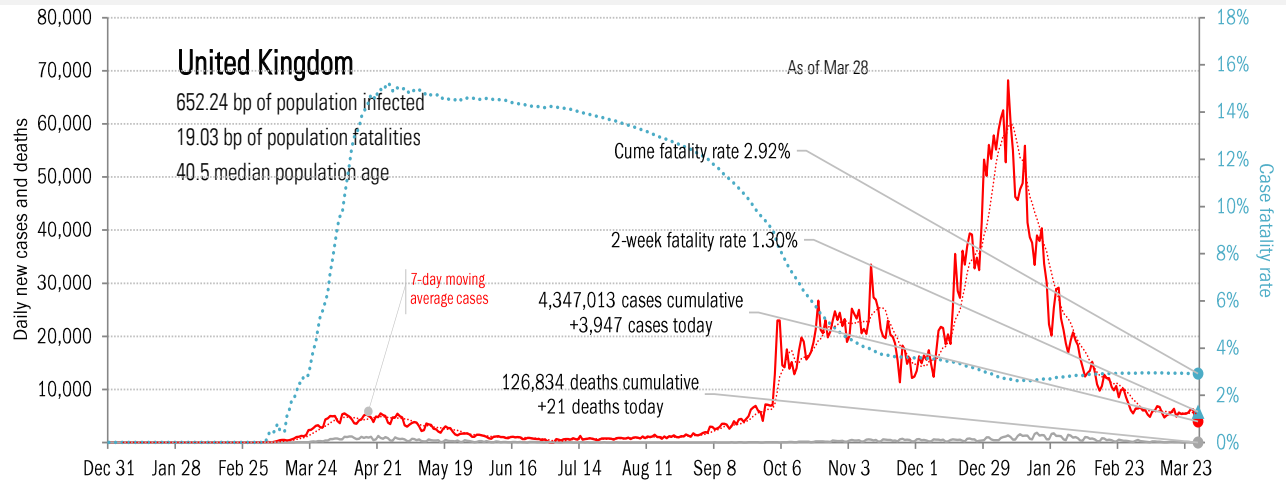
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the largest economies



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

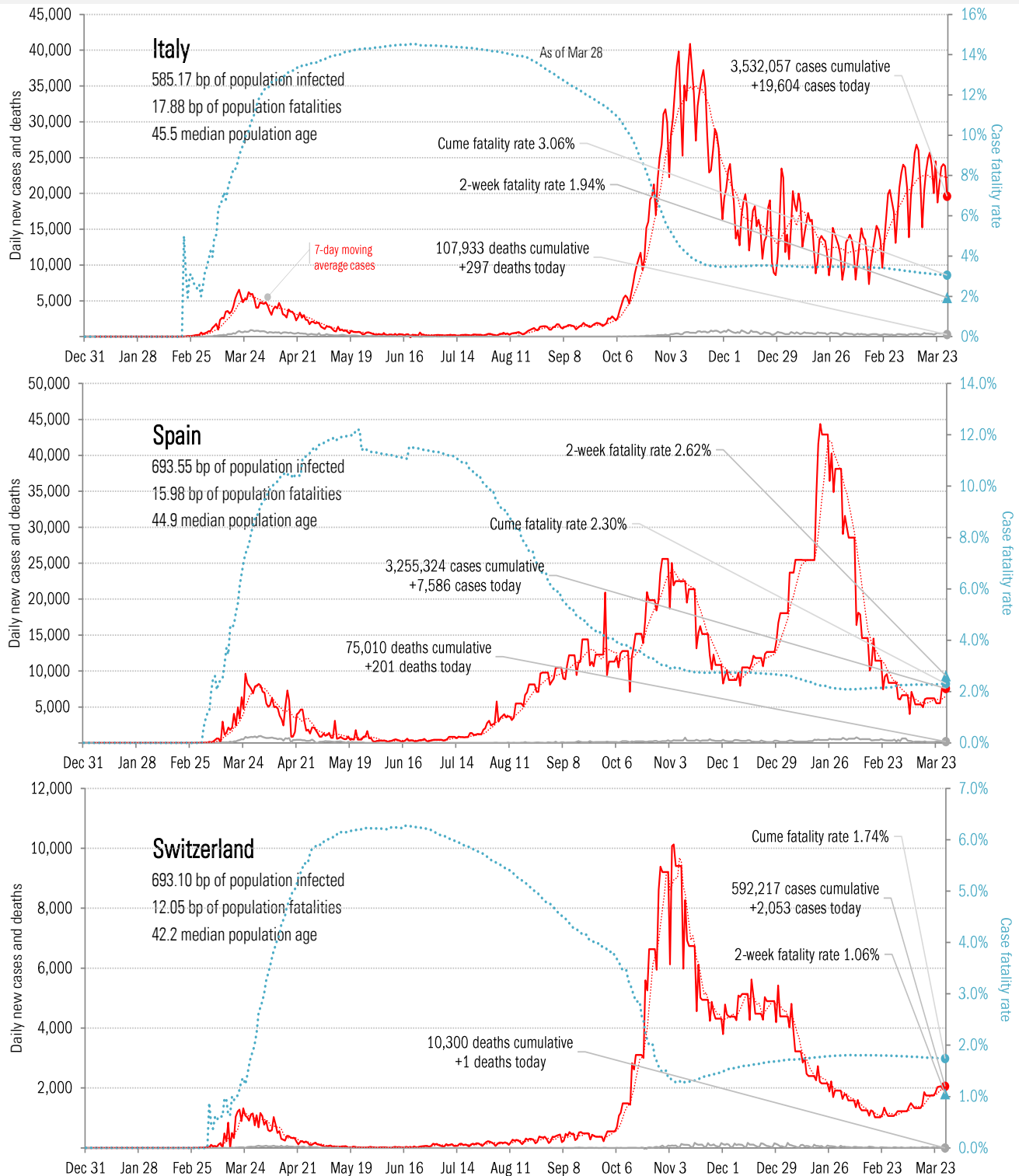
# Impact in The Anglosphere



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

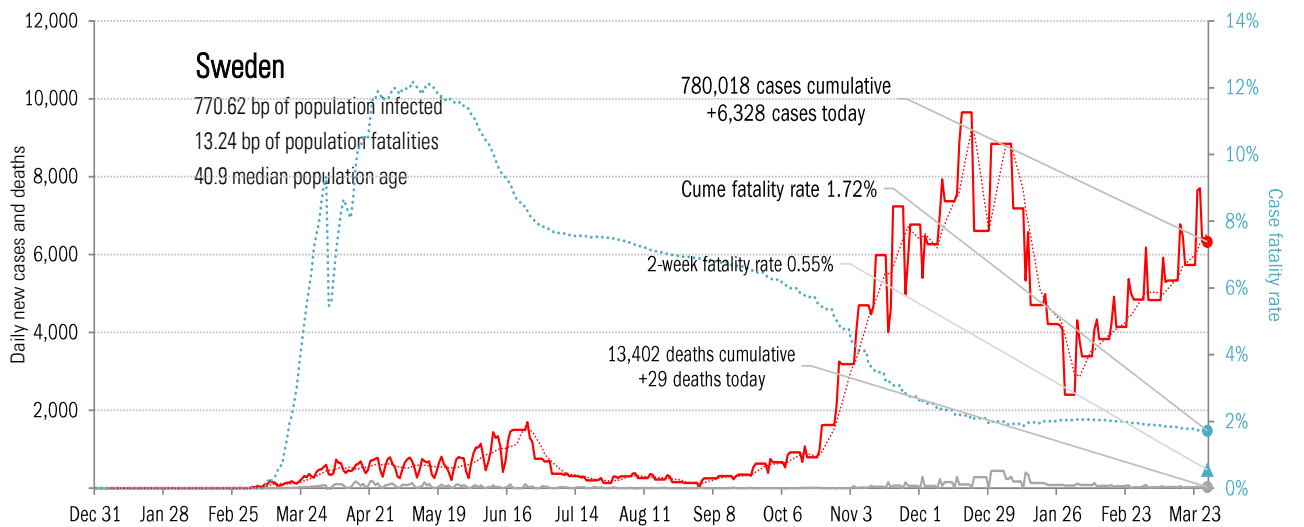
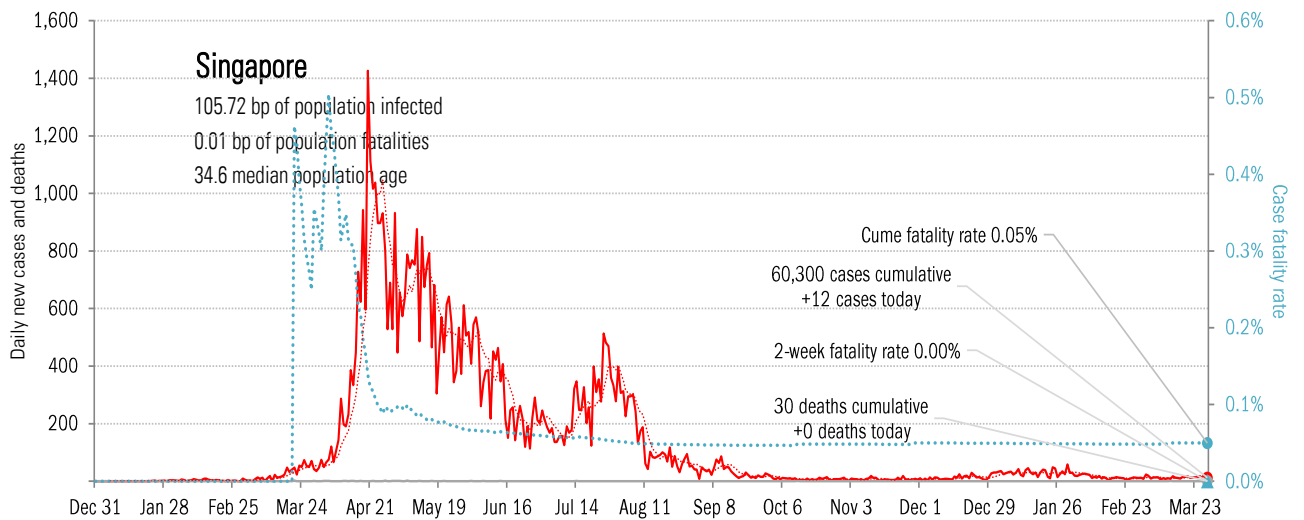
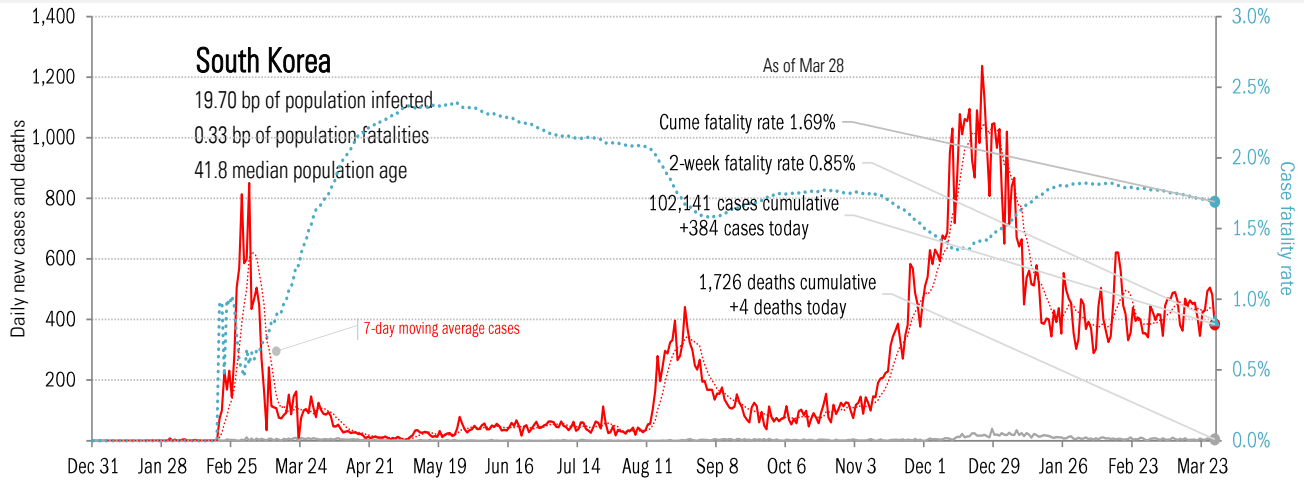


# Impact in continental Europe



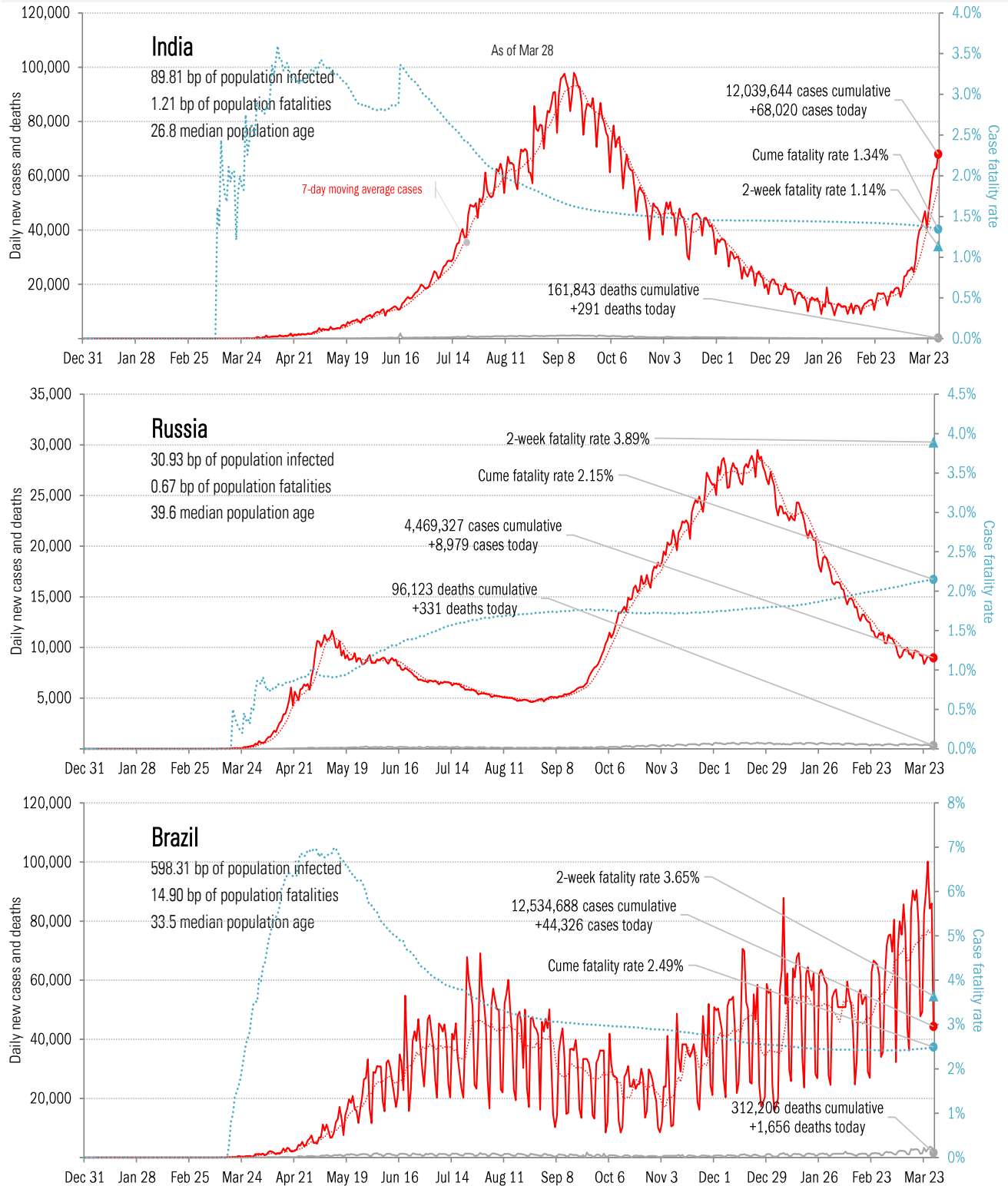
a  
 Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



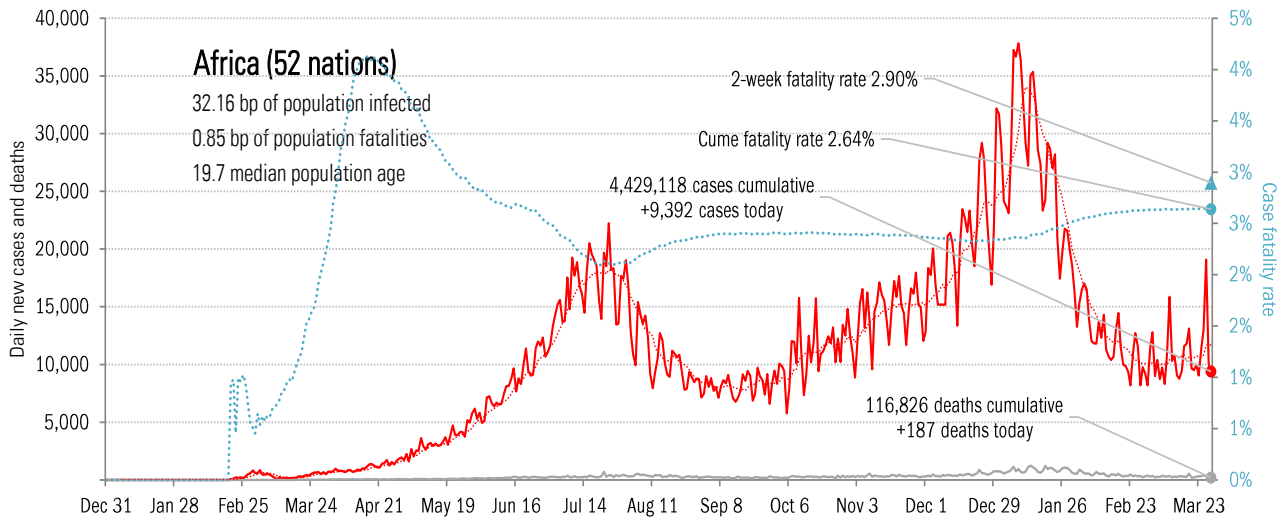
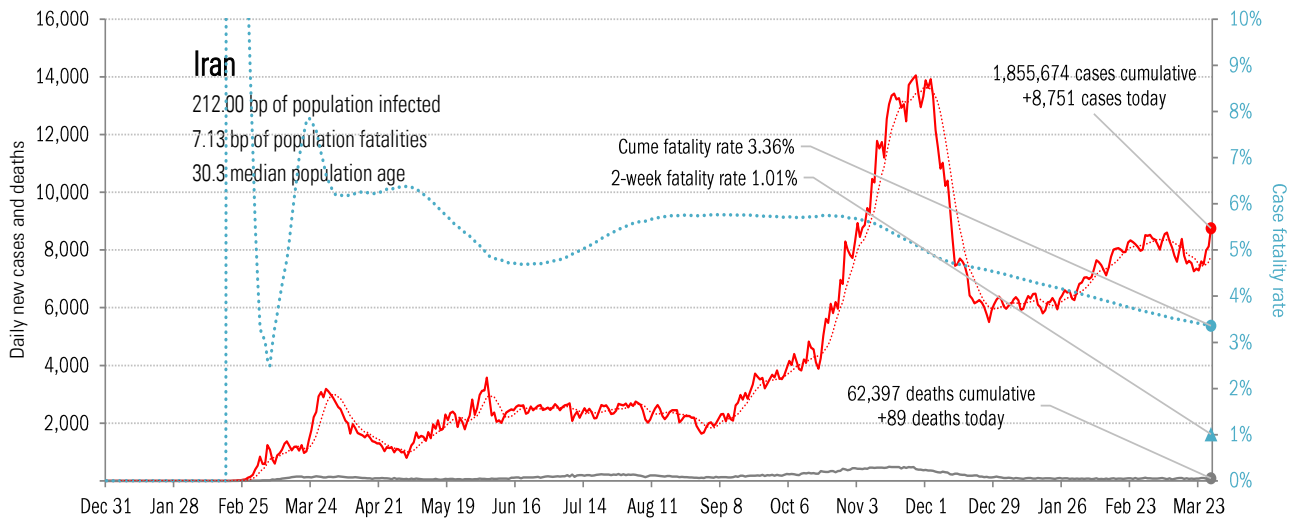
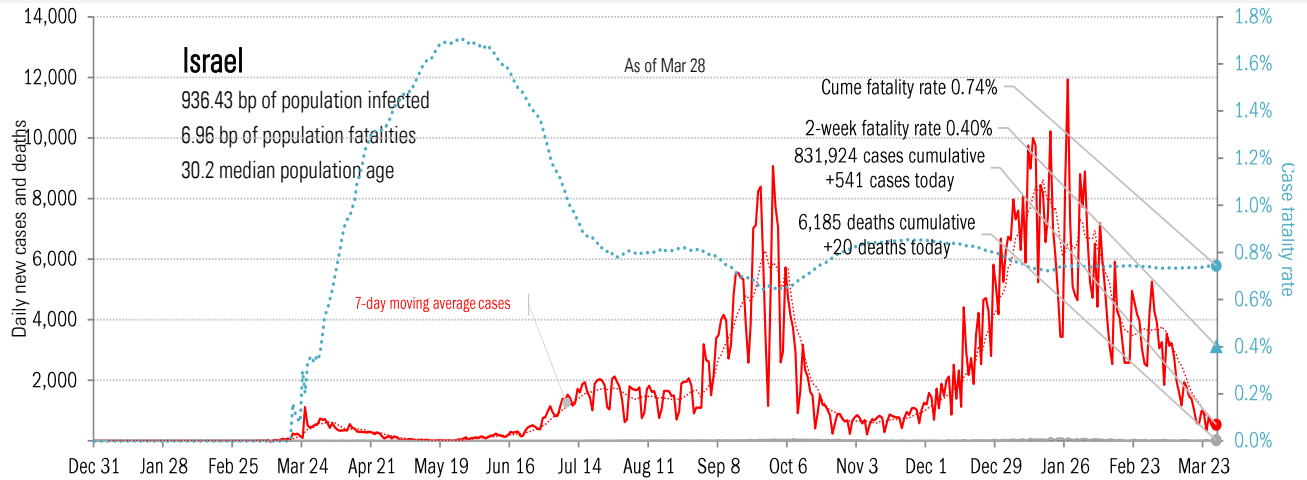
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



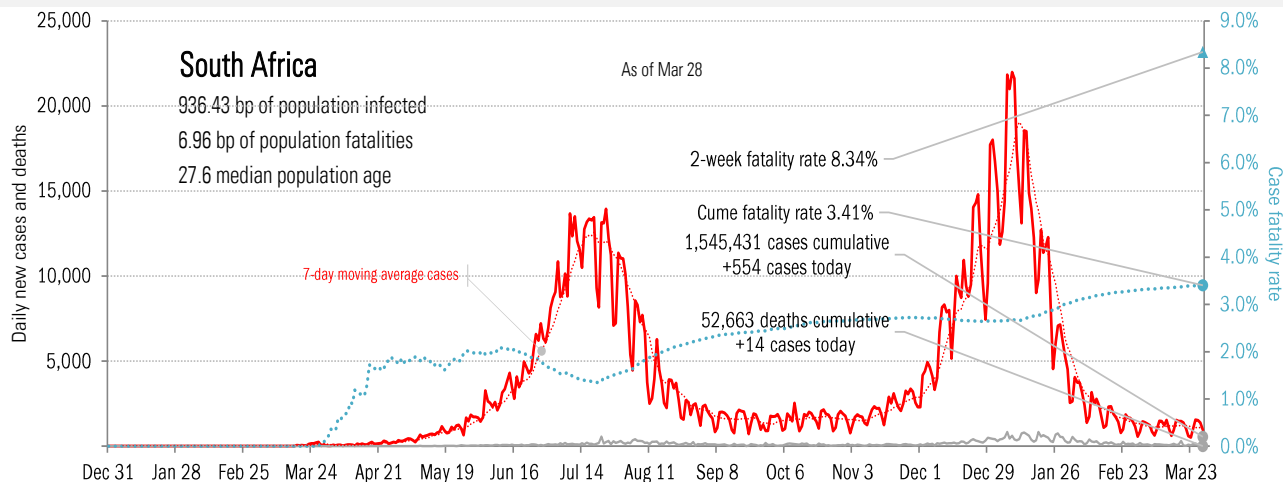
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

# Impact in Africa, continued



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