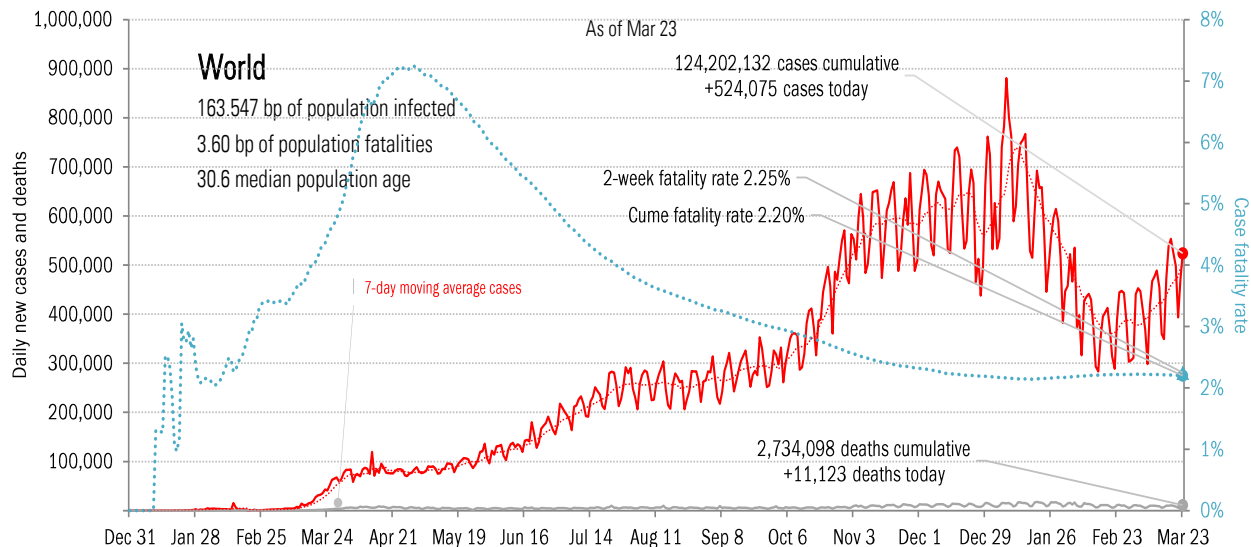
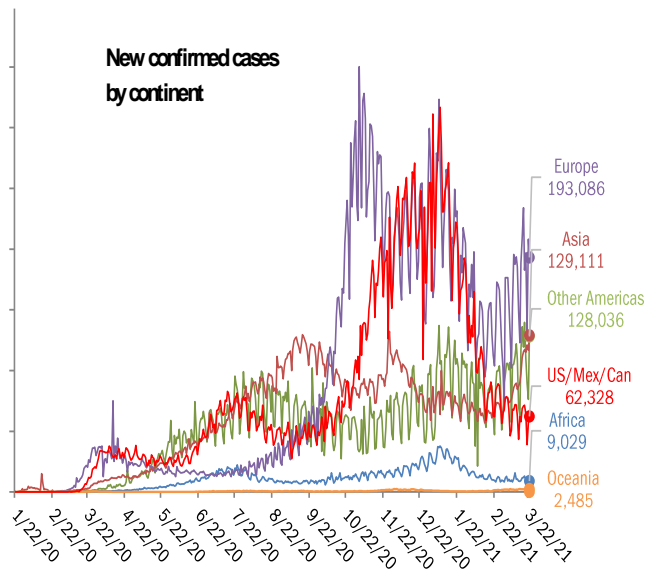


## Data Insights: Covid-2019 Monitor

Wednesday, March 24, 2021

### The global scorecard

The worst ten countries			
New cases		New Deaths	
Brazil	+82,493	Brazil	+3,251
United States	+52,878	United States	+894
India	+47,262	Mexico	+809
Italy	+29,435	Italy	+551
Turkey	+26,182	Russia	+419
Germany	+20,969	Poland	+396
Poland	+16,740	Ukraine	+341
Peru	+14,933	France	+288
France	+14,697	Peru	+276
Sweden	+14,063	India	+275
<b>+319,652</b>		<b>+7,500</b>	
World +524,075		World +11,123	
Topten 61%		Topten 67%	



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

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 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

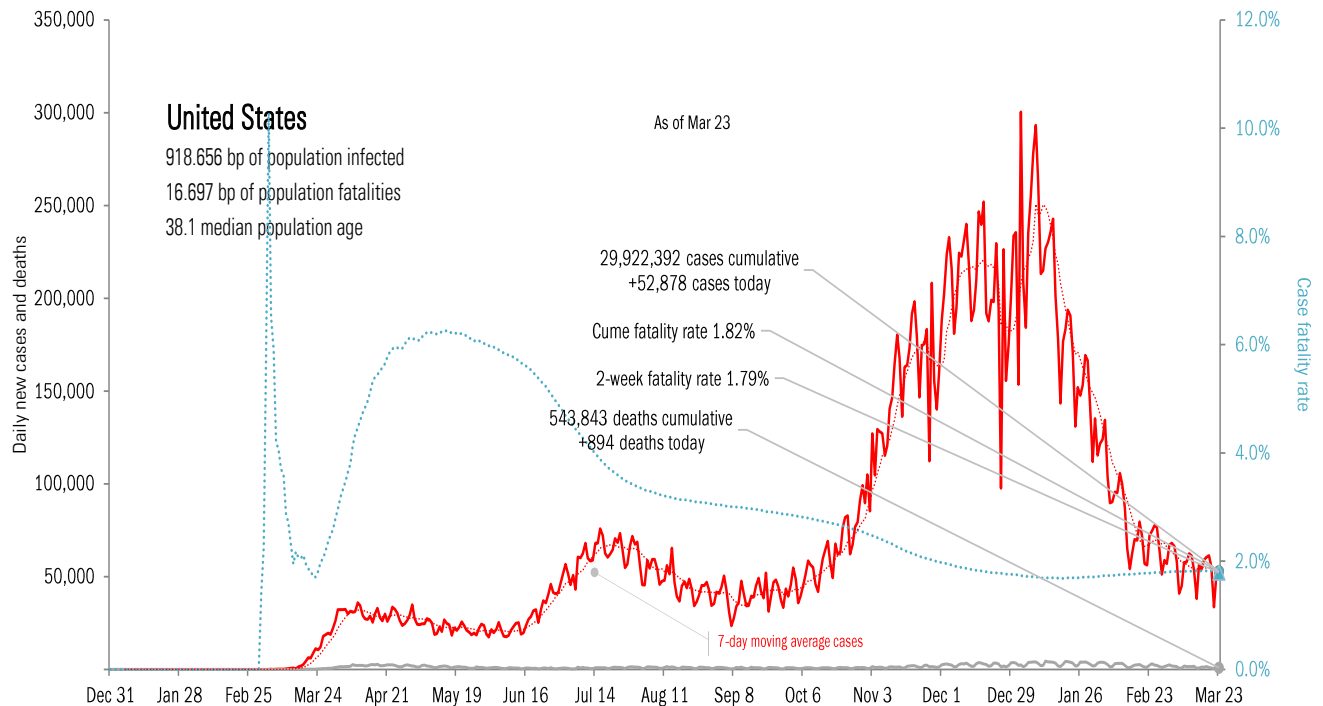
## The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
FL	+5,302		CA	+176		MI	+97		CA	3,646,941		CA	57,798		TX	222,778		R	94%	NY	19%
NJ	+4,803		TX	+81		PA	+59		TX	2,762,270		NY	49,462		CA	219,763		ID	83%	MD	18%
TX	+4,718		NJ	+61		FL	+52		FL	2,016,513		TX	47,527		FL	147,730		MA	82%	DC	16%
MI	+4,540		MO	+54		GA	+51		NY	1,788,874		FL	32,820		NY	109,577		MD	80%	TX	15%
NY	+3,309		AZ	+53		NY	+32		IL	1,224,804		PA	24,833		GA	92,807		PA	80%	GA	14%
PA	+2,911		OH	+42		CH	+26		GA	1,048,173		NJ	24,242		CH	73,979		CT	79%	MS	14%
CA	+2,453		FL	+41		MN	+25		CH	1,002,822		IL	23,391		PA	71,396		MO	77%	NM	13%
MA	+1,821		PA	+35		CO	+15		PA	993,061		GA	18,588		KY	66,982		MI	77%	MO	12%
IL	+1,812		TN	+34		NJ	+12		NC	899,164		CH	18,381		IL	66,782		FL	77%	NJ	12%
GA	+1,791		GA	+32		IL	+11		NJ	873,840		MI	16,932		AZ	57,653		DC	77%	ID	12%
+33,460			+609			+380			16,256,462			313,974			1,129,447						
All states	+52,878			+894			+142		All states	29,922,392			543,843			2,007,777		All states	70%		67%
Top ten	63%			68%			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	
CT	-2,078	KY	-46	TX	-64	WY	+117 bp
NC	-1,777	LA	-35	NC	-27	PA	+112 bp
TN	-1,565	TX	-19	WA	-24	RI	+72 bp
MI	-1,228	SC	-17	TN	-17	VT	+41 bp
CA	-930	IL	-10	NJ	-16	NY	+32 bp



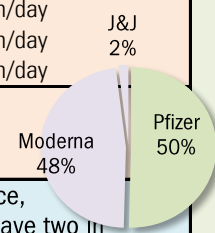
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

US overall	Over last day	Share pop full immunization
172.12 million doses distributed	+7.81 million/day	United States 13.6%
133.83 million doses administered	+1.72 million/day	United Kingdom 3.5%
87.11 million persons partially immunized	+1.16 million/day	France 3.6%
47.56 million persons fully immunized	+0.63 million/day	Spain 4.6%
7.68 million shots long-term care residents/staff	+0.00 million/day	Germany 4.1%

77.8% of distributed doses administered  
 26.1% of US pop partial  
 100% of LTC partial

14.2% full immunity  
 62.7% full immunity



Country	Share pop full immunization
United States	13.6%
United Kingdom	3.5%
France	3.6%
Spain	4.6%
Germany	4.1%
Italy	4.3%
Australia	0.5%
Israel	53.2%
Canada	1.7%
Japan	0.0%
Africa	0.2%
India	0.6%
Brazil	1.7%

At today's dosing pace, every American will have two in 303 days by Jan 20, 2022

US will achieve herd immunity in 116 days by Jul 17, 2021

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

AK
72.4%
31.6%
20.1%

ME
53.1%
29.9%
16.5%

WI	VT	NH
49.4%	56.6%	49.2%
27.2%	29.4%	28.3%
15.7%	15.5%	14.3%

WA	ID	MT	ND	MN	IL	MI	NY	MA
51.2%	46.0%	52.1%	53.8%	47.1%	50.3%	50.2%	51.3%	50.6%
26.0%	22.6%	26.6%	29.0%	27.3%	26.4%	24.7%	26.7%	29.4%
14.8%	14.2%	16.0%	17.0%	15.5%	14.3%	14.1%	13.0%	15.7%

OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
49.6%	45.1%	56.1%	60.4%	48.8%	46.5%	49.9%	49.5%	47.5%	55.4%	53.0%
24.5%	24.2%	24.5%	30.5%	27.0%	22.2%	24.8%	27.2%	28.3%	30.7%	29.7%
14.2%	13.6%	15.9%	18.7%	16.4%	14.5%	14.3%	13.9%	14.8%	17.1%	16.5%

CA	UT	CO	NE	MO	KY	WV	VA	MD	DE
50.5%	43.2%	48.4%	51.9%	46.8%	49.6%	55.4%	48.3%	50.1%	52.2%
26.0%	22.1%	25.2%	26.9%	22.8%	27.6%	26.6%	26.0%	26.4%	25.9%
13.2%	9.7%	15.5%	15.4%	12.4%	14.2%	16.1%	14.4%	14.3%	13.7%

AZ	NM	KS	AR	TN	NC	SC	DC
49.2%	59.8%	50.2%	50.9%	46.2%	47.5%	45.5%	65.2%
25.4%	33.4%	25.6%	22.6%	21.4%	25.5%	23.5%	21.5%
14.6%	20.3%	13.7%	11.6%	11.3%	14.0%	12.8%	10.6%

OK	LA	MS	AL	GA
57.9%	49.4%	48.4%	46.4%	45.4%
27.5%	23.2%	22.1%	20.3%	19.4%
14.9%	13.6%	12.4%	11.8%	11.0%

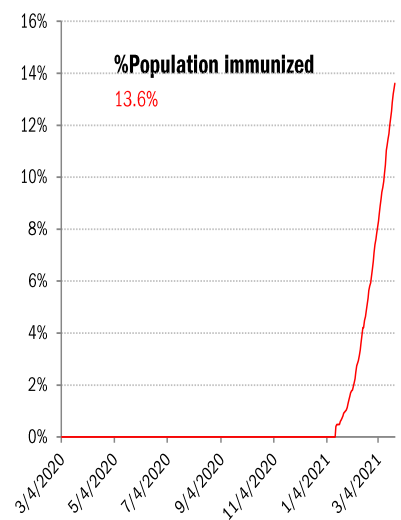
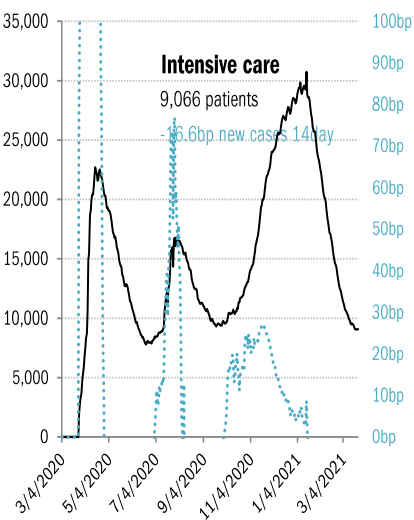
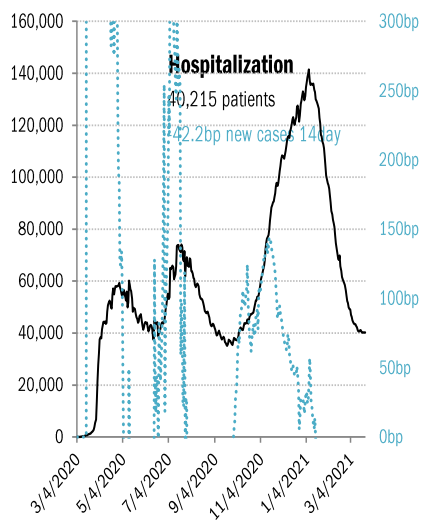
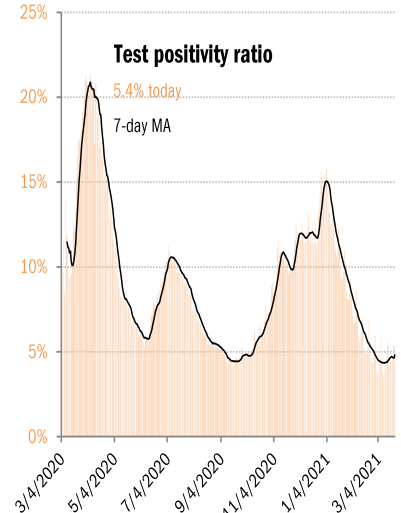
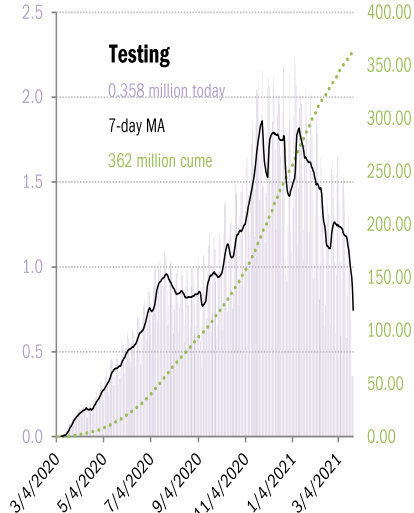
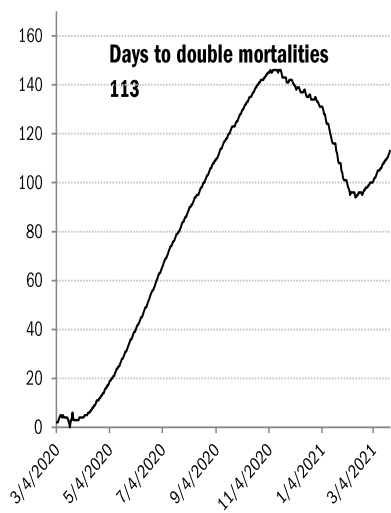
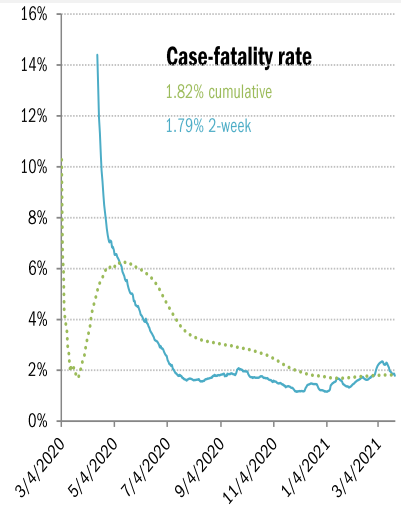
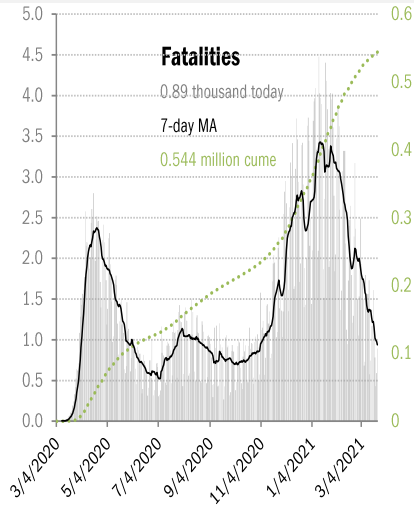
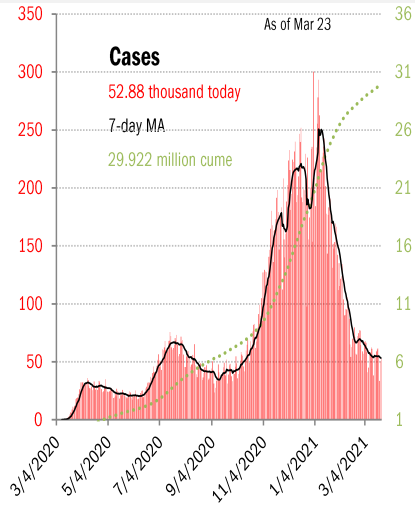
HI	TX	FL	PR
56.8%	45.5%	52.6%	51.7%
28.0%	22.3%	24.0%	18.2%
16.6%	11.1%	13.4%	10.4%

As of Mar 23

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

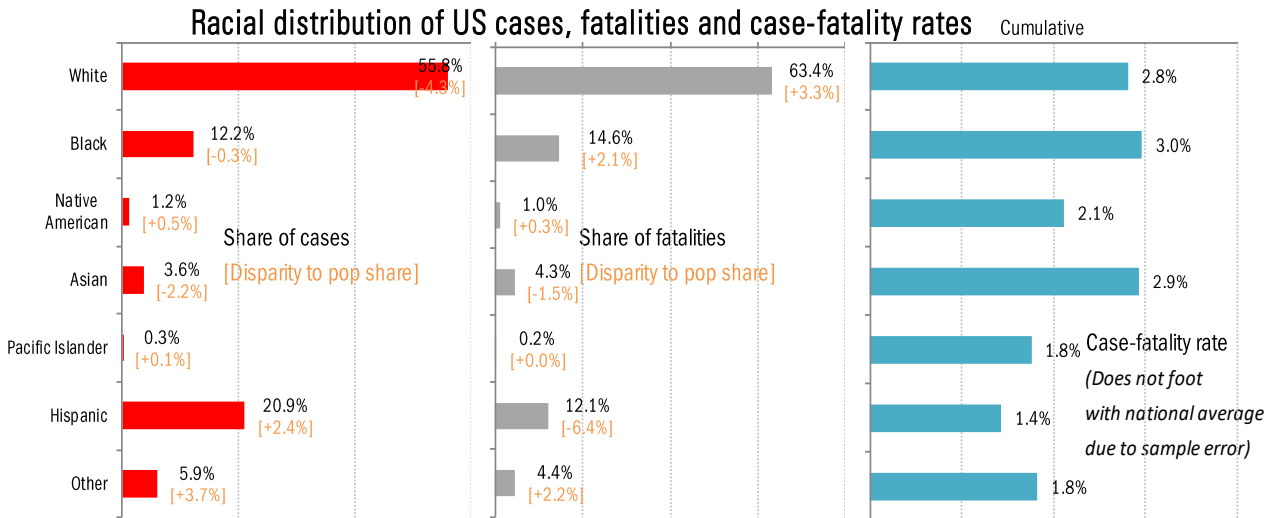
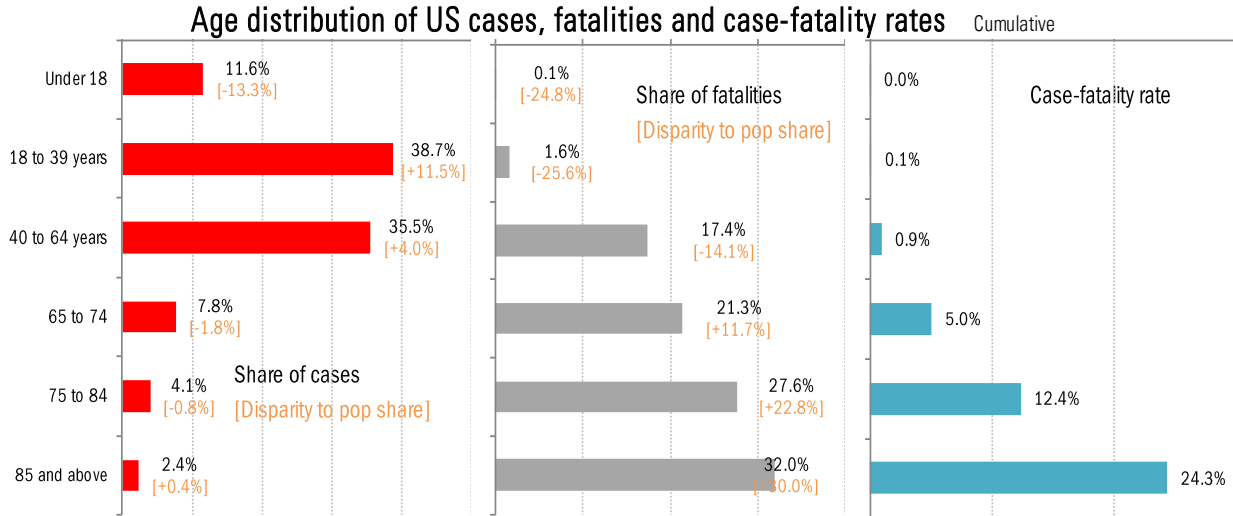
# US deep-dive

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



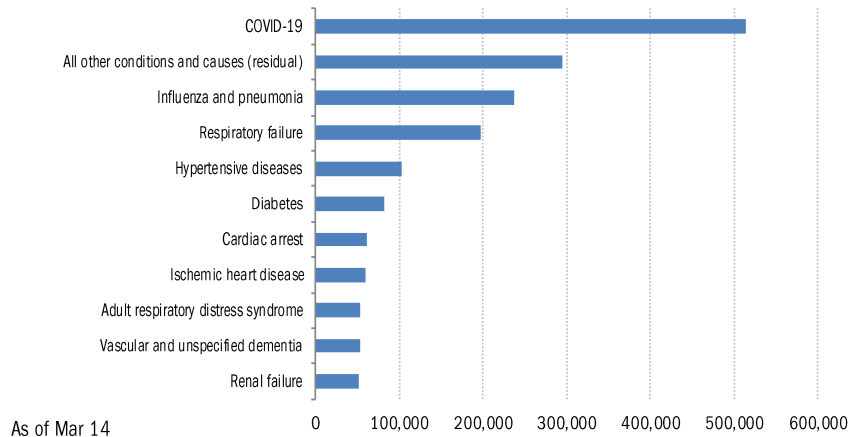
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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



## Comorbidities

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

[COVID: Angela Merkel backtracks on Easter lockdown after uproar](#)

*Deutsche Welle*

March 24, 2021

[Trust in AstraZeneca vaccine wanes across EU, survey finds](#)

Mark Scott

*Politico*

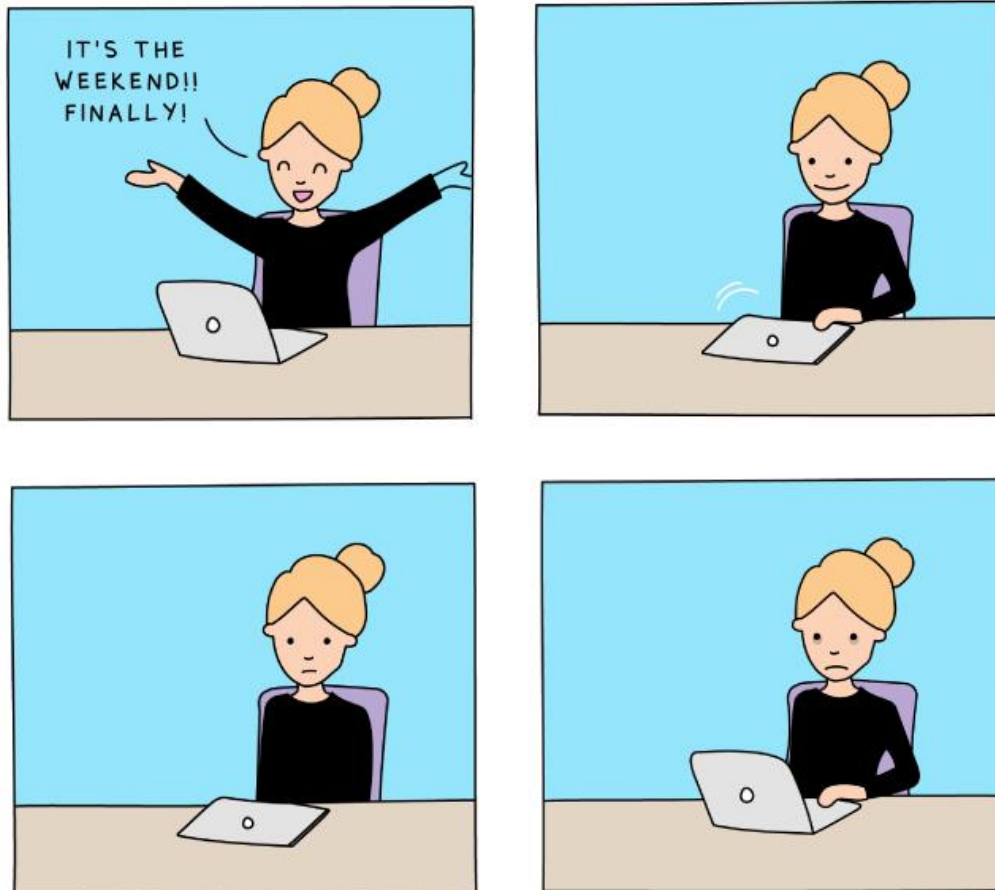
March 22, 2021

[One year later, a new wave of pandemic health concerns](#)

*American Psychological Association*

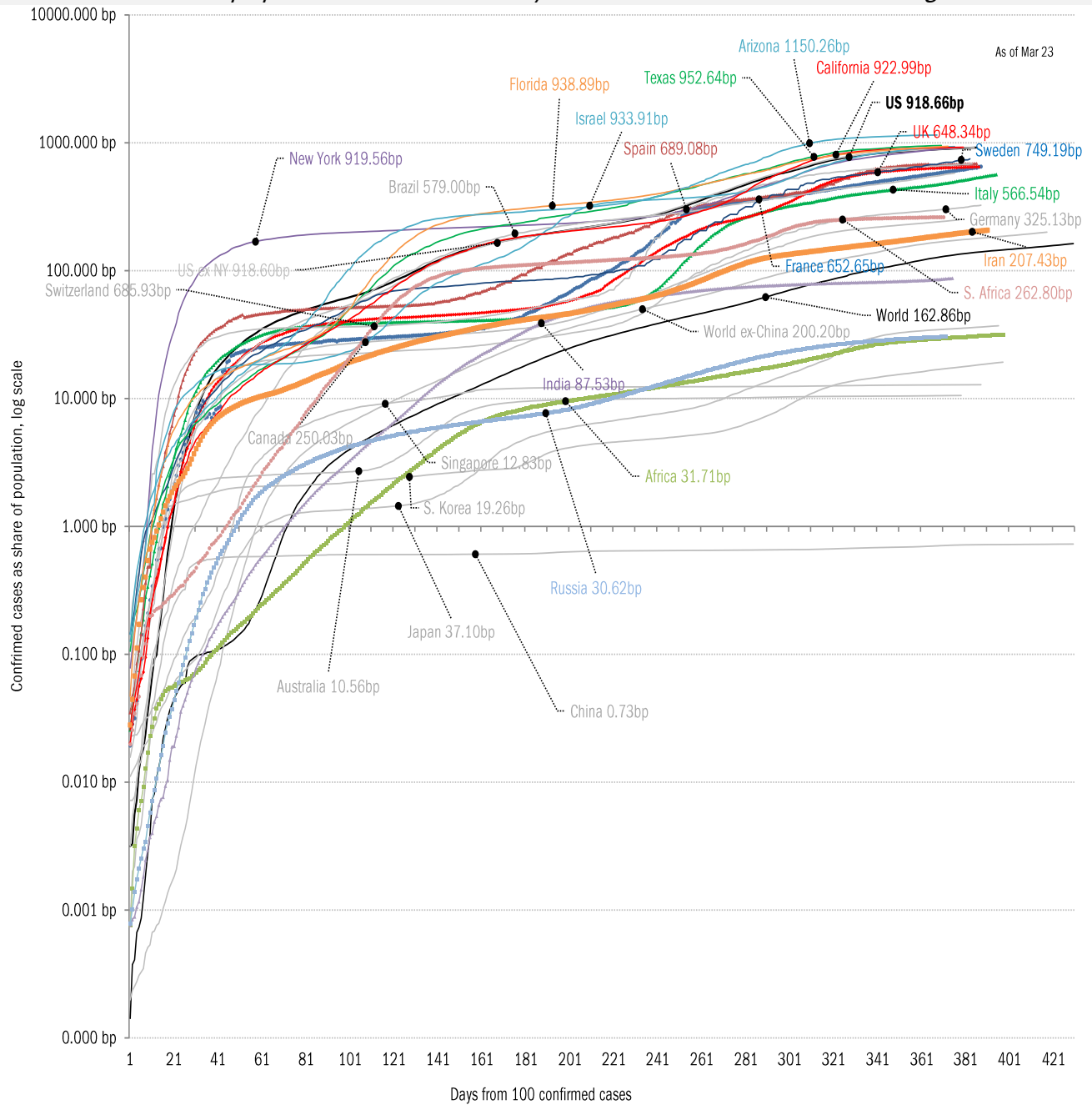
March 11, 2021

## Meme of day



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

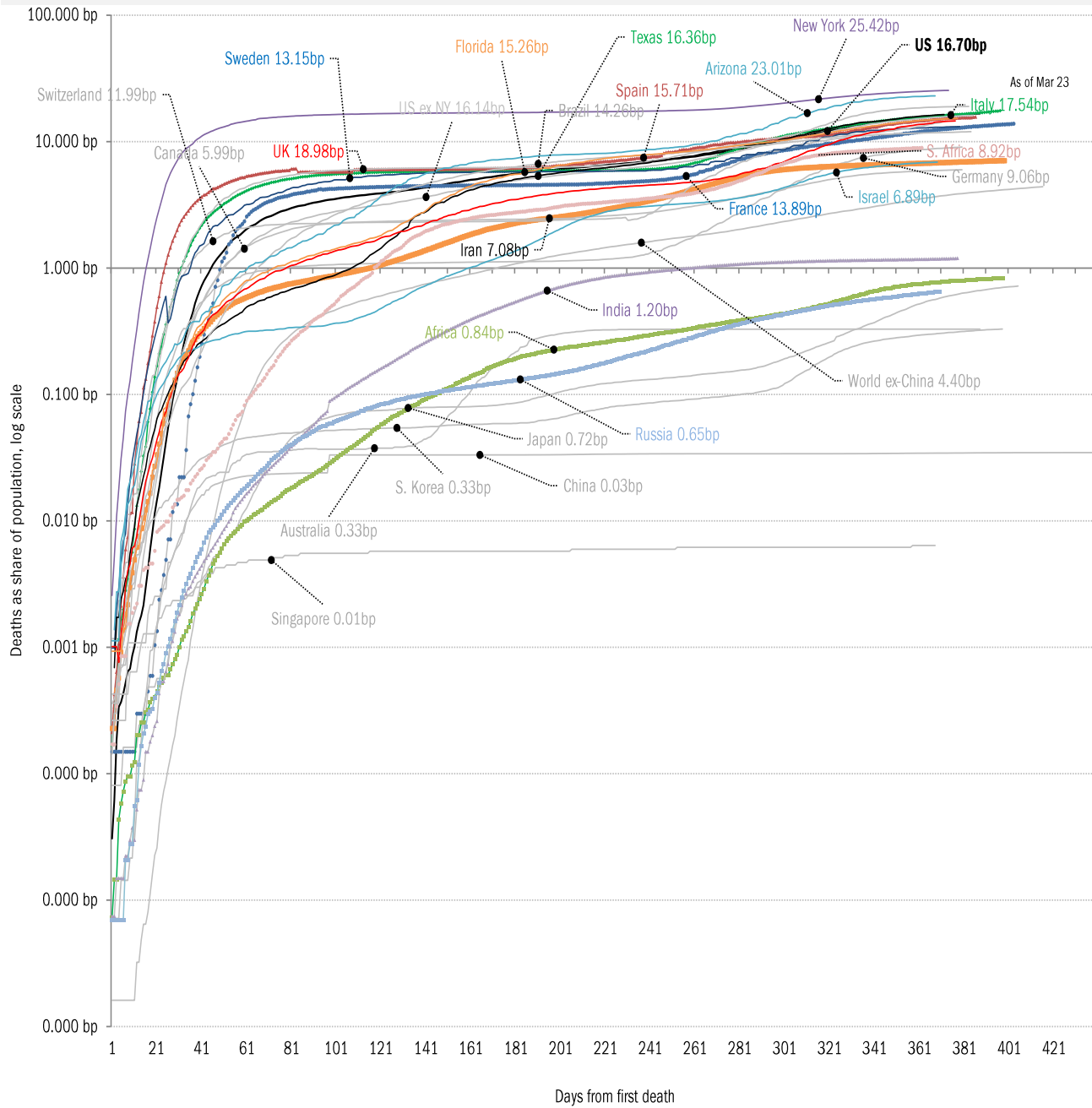
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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

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

## Share of deceased population from day of first fatality



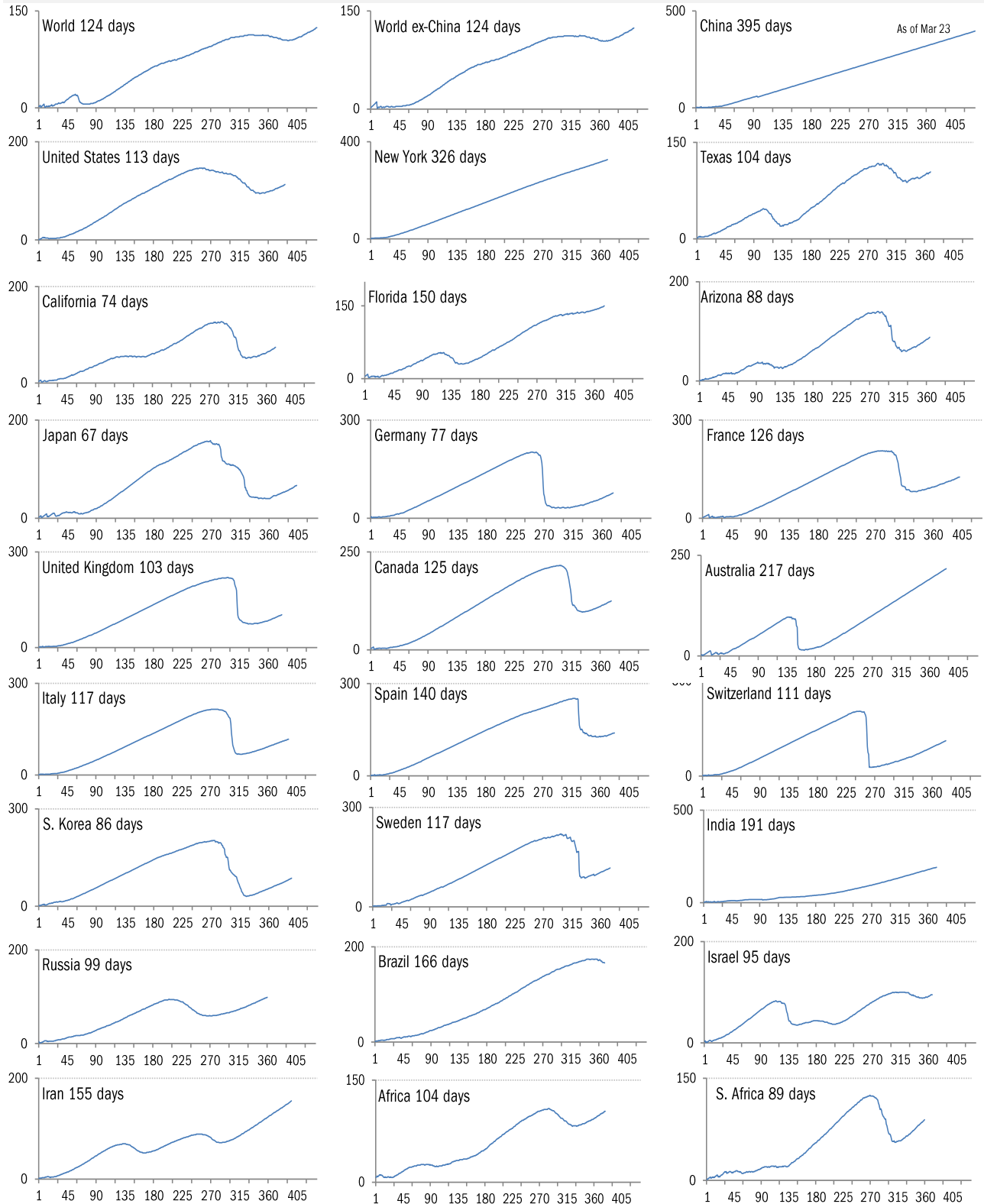
Source: [Johns Hopkins](#), TrendMacro calculations



# "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

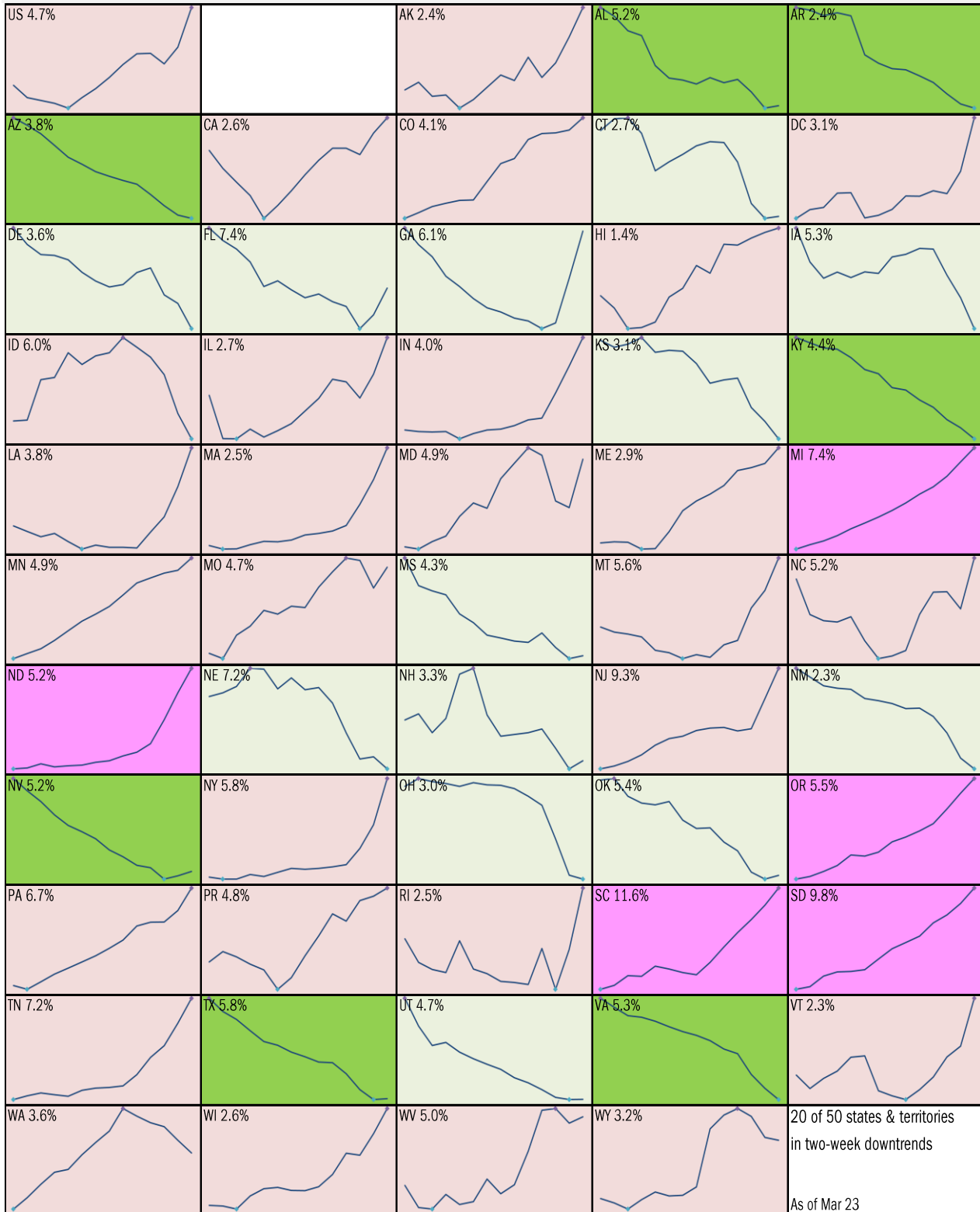


Source: [Johns Hopkins](#), TrendMacro calculations

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

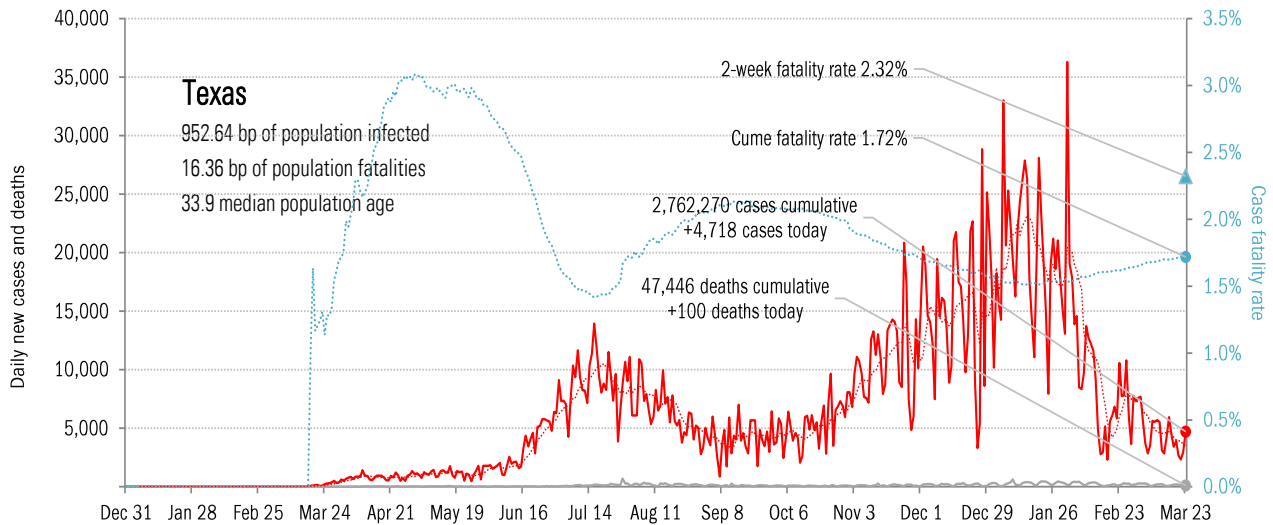
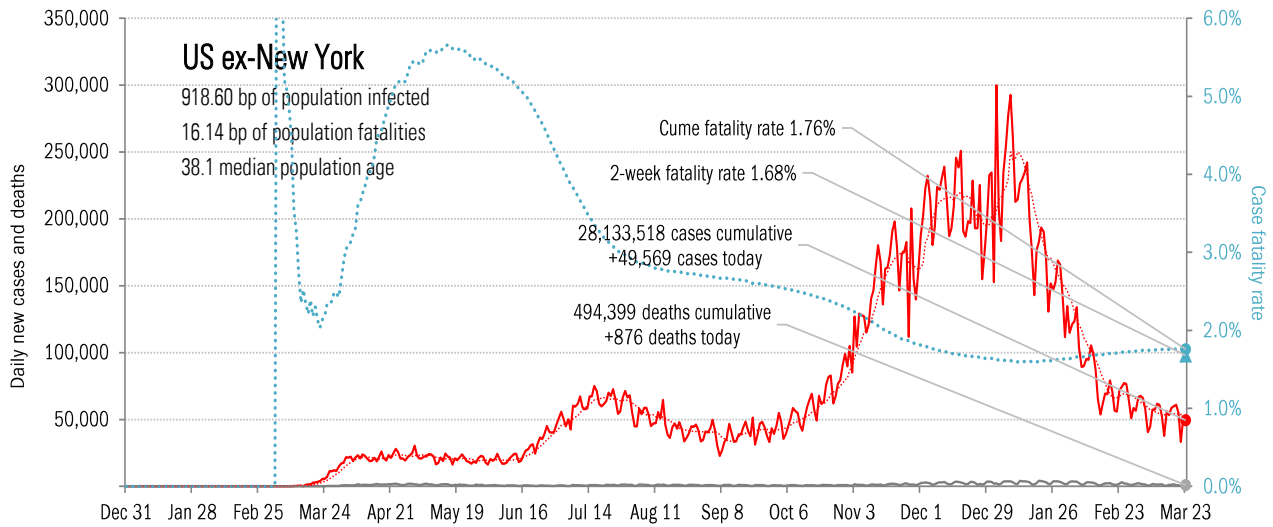
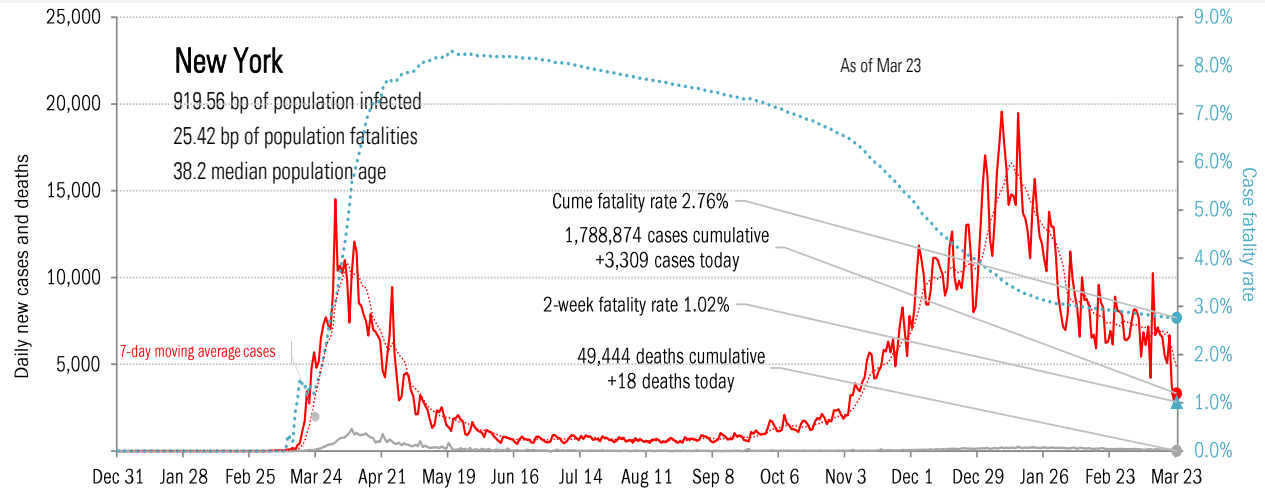
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



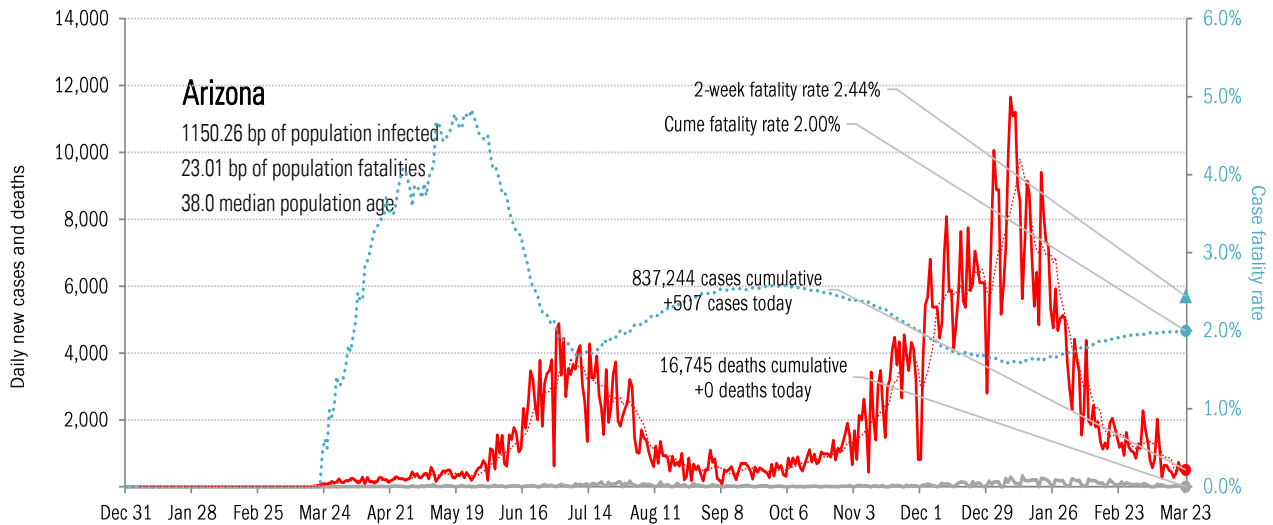
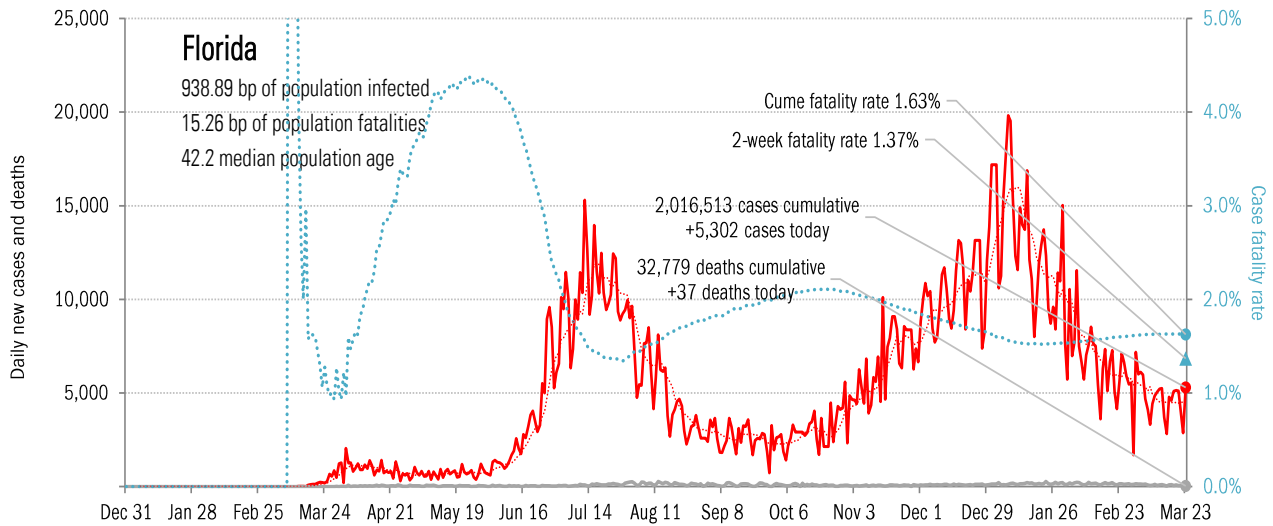
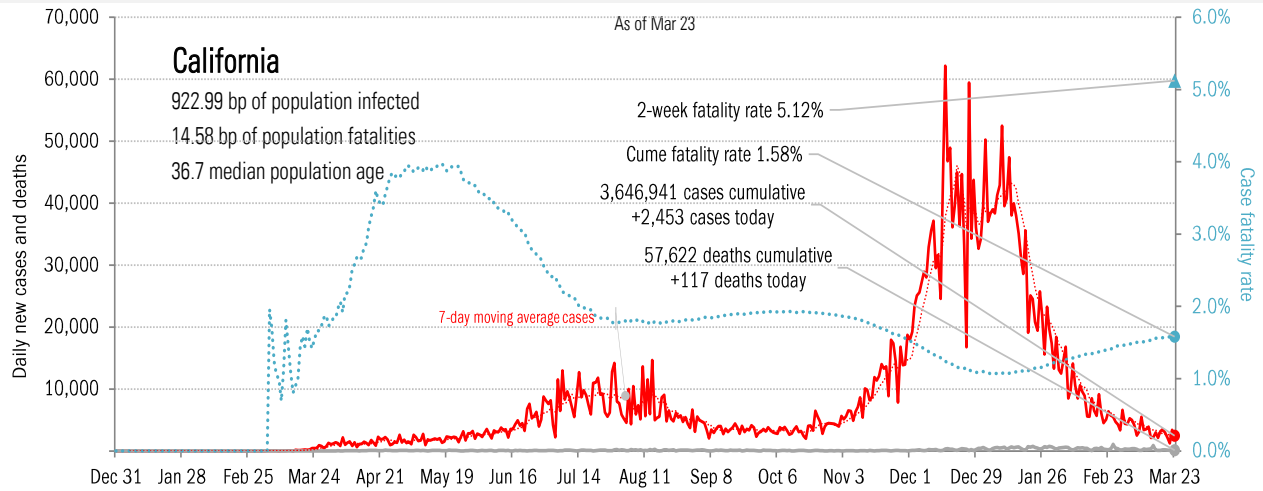
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



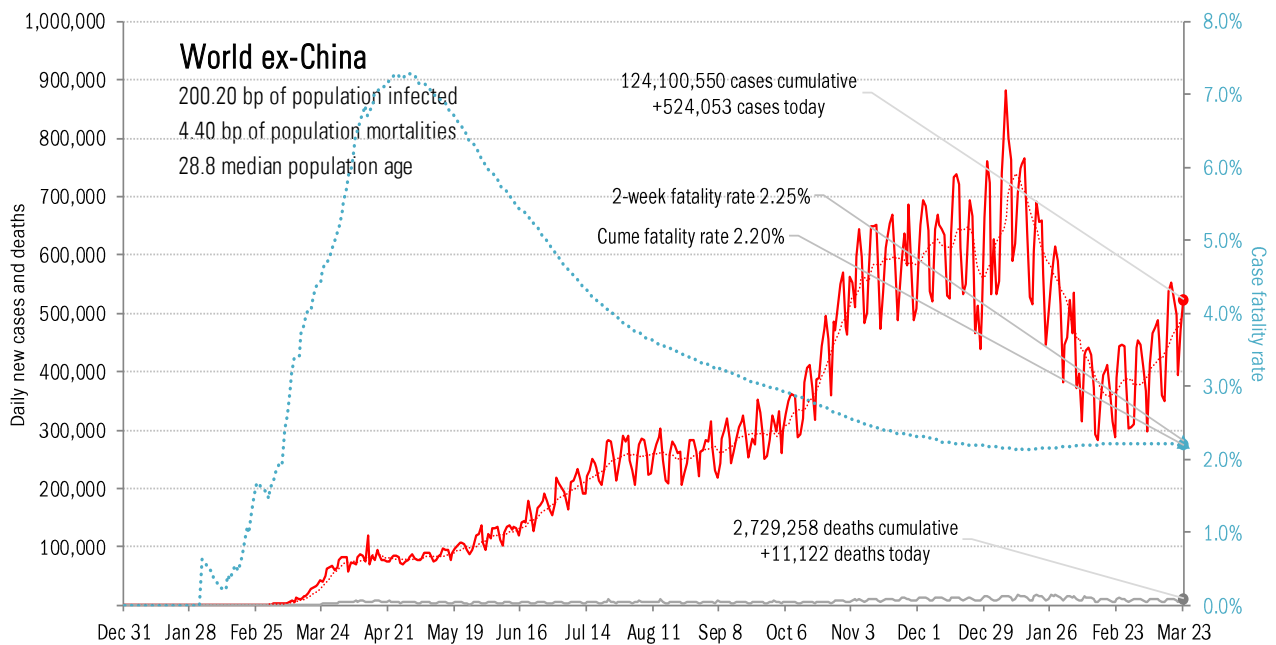
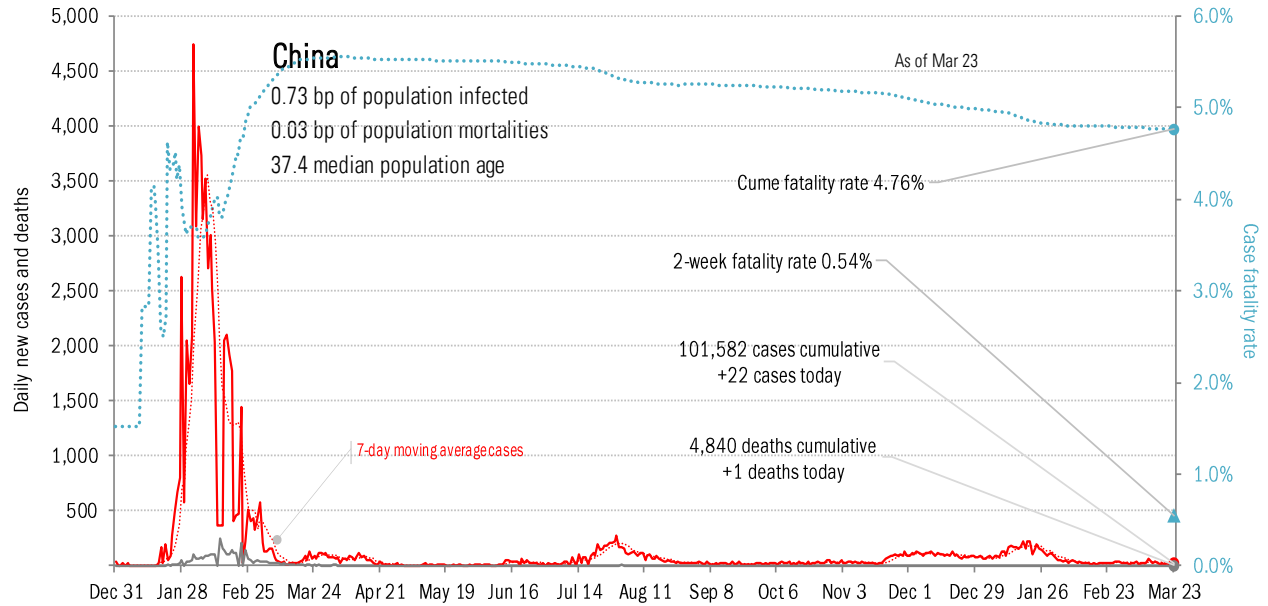
Source: [Johns Hopkins](#), TrendMacro calculations

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



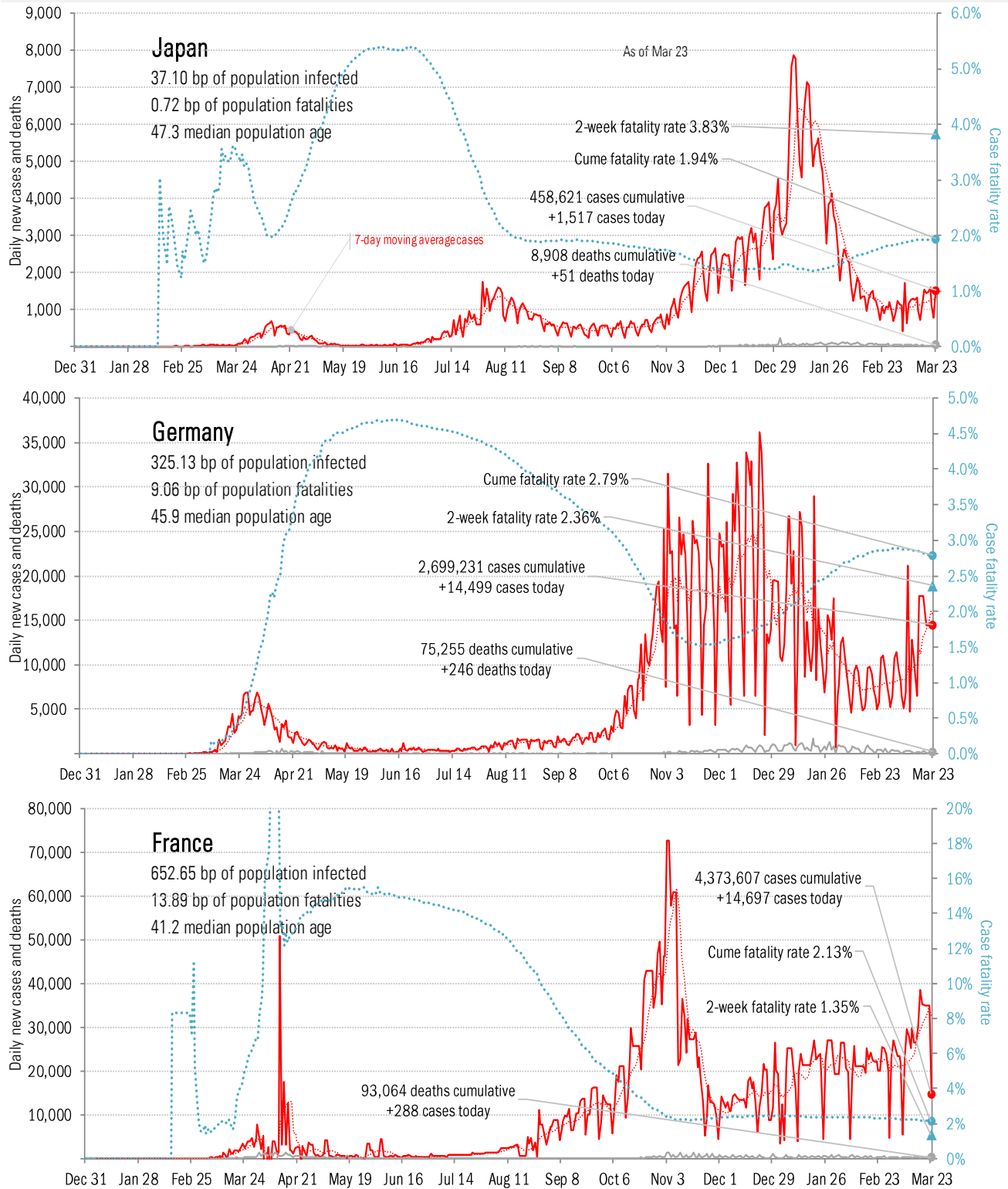
Source: [Johns Hopkins](#), TrendMacro calculations

# Patient zero... and then everyone else



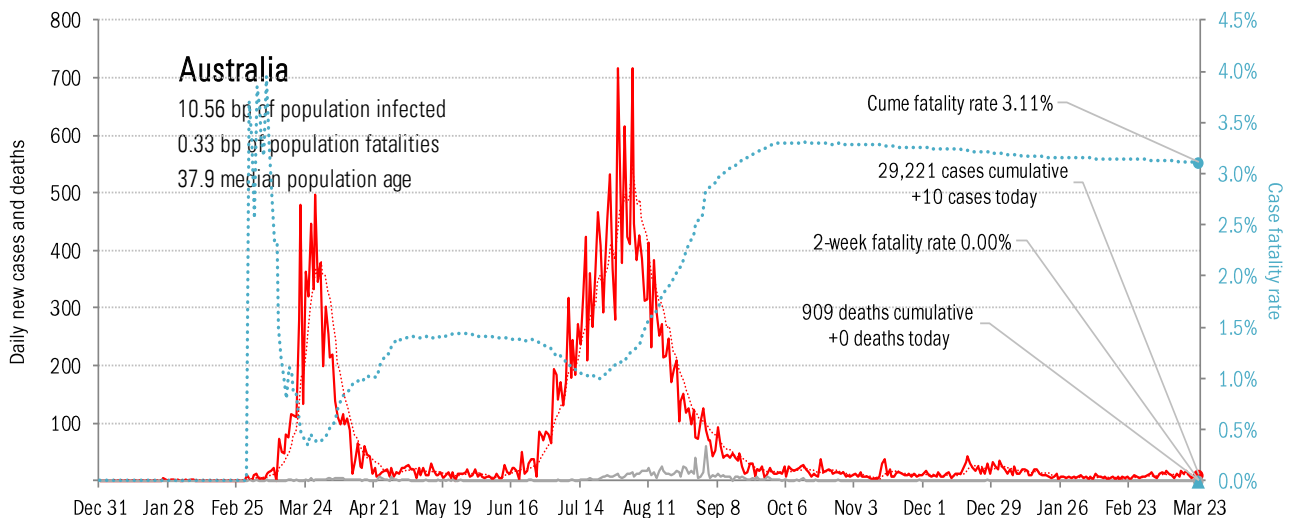
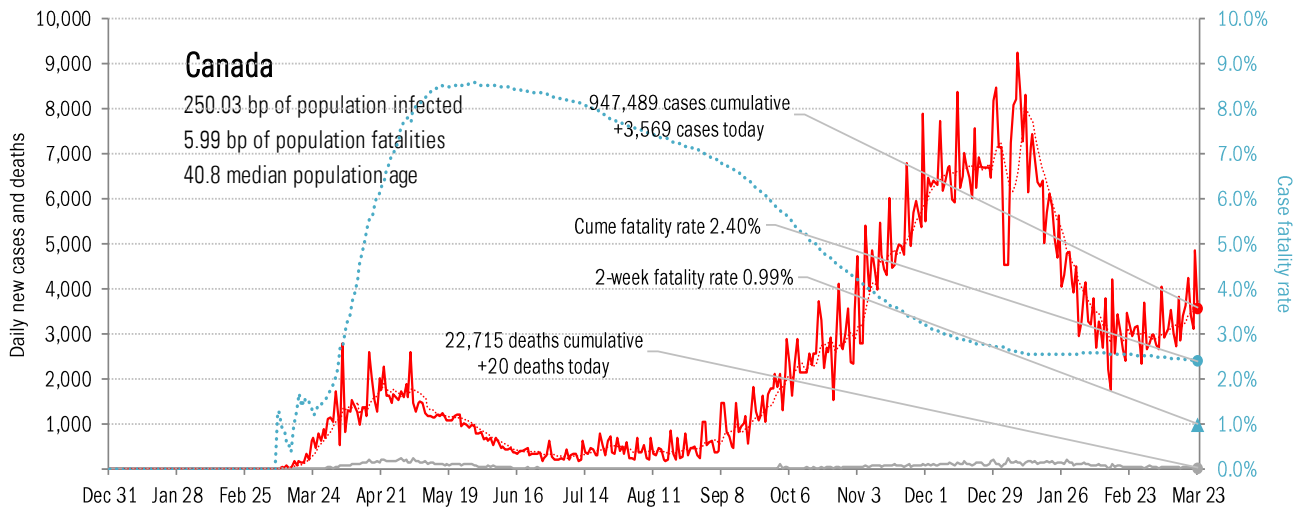
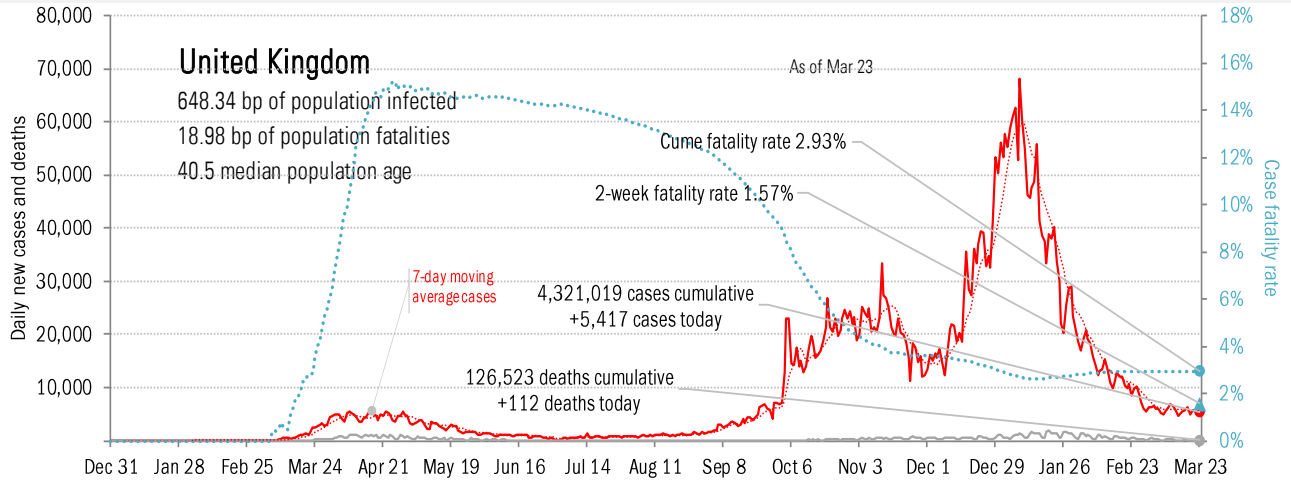
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the largest economies



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

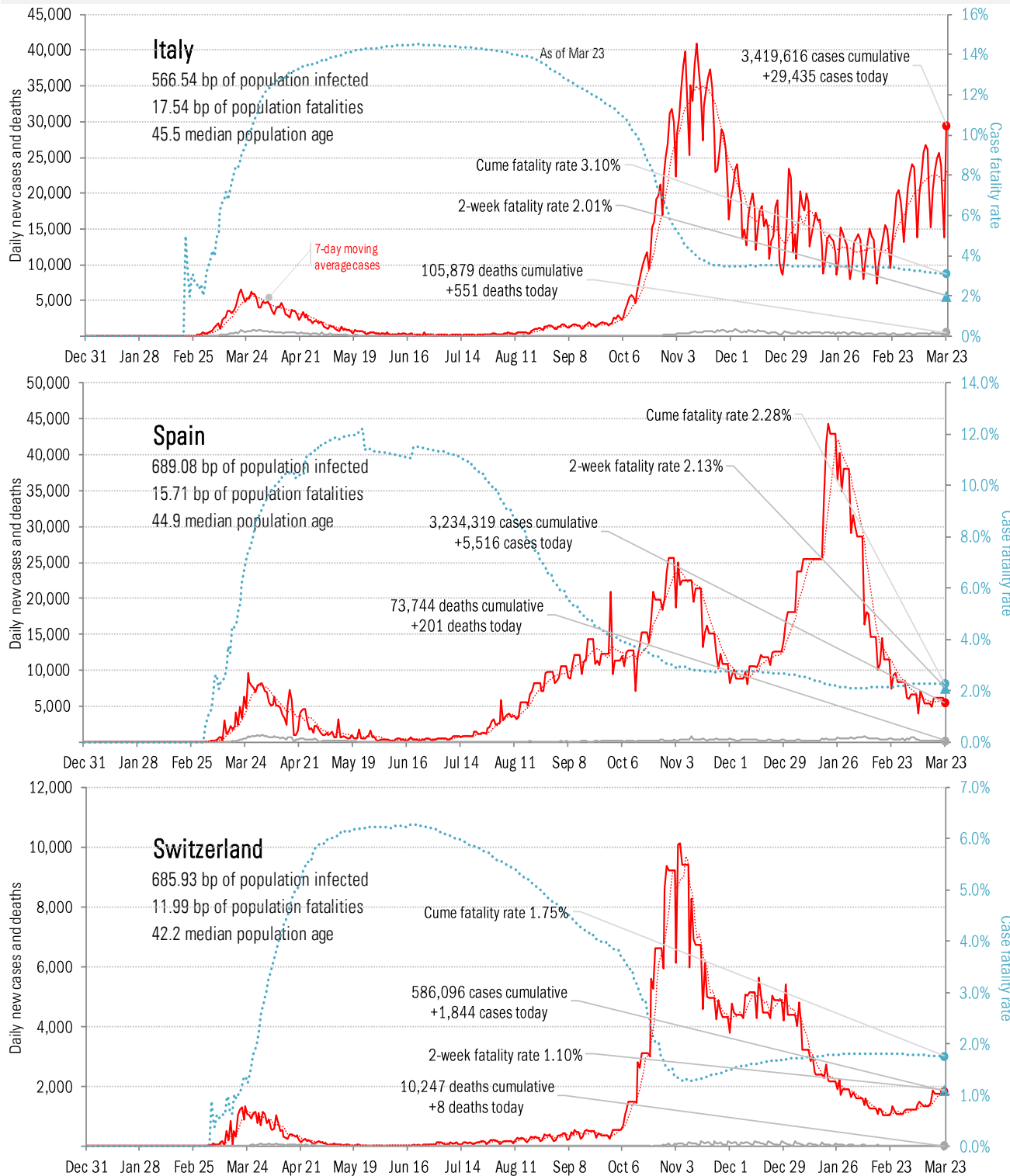
# Impact in The Anglosphere



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

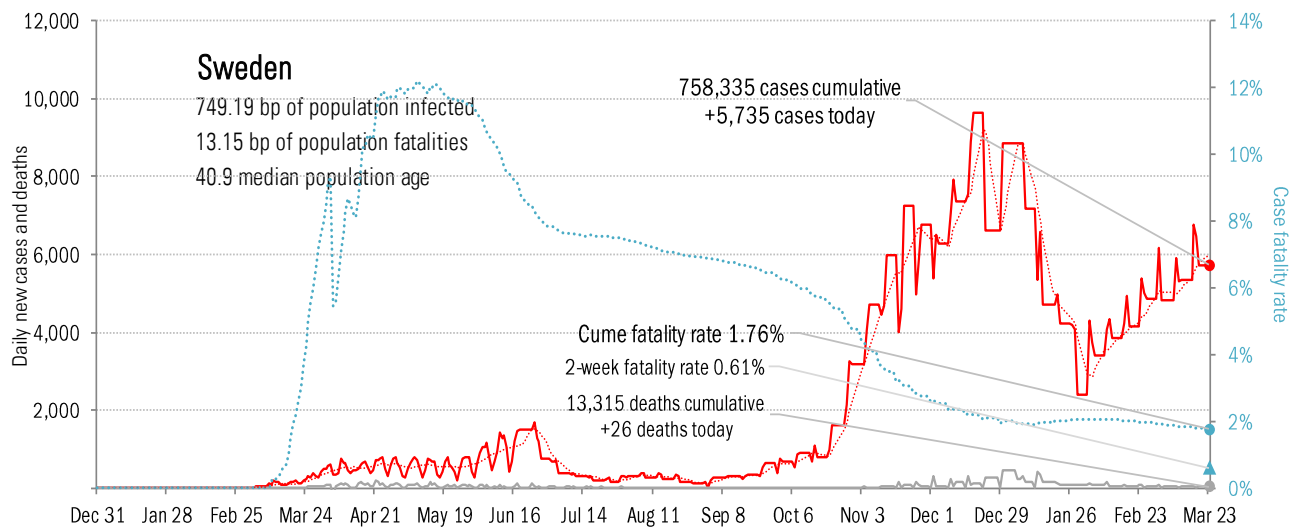
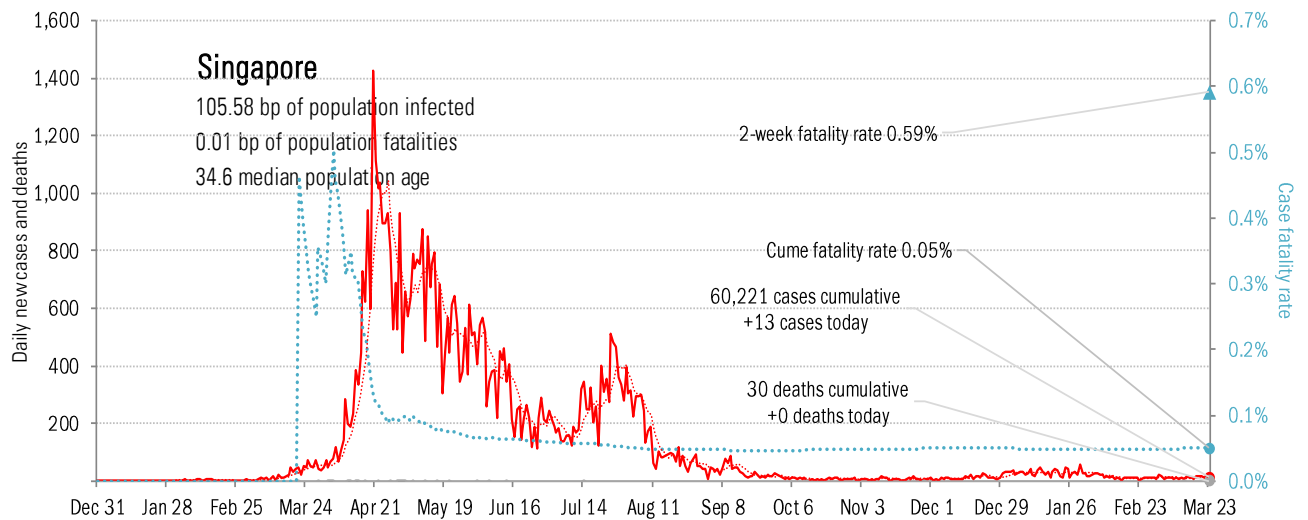
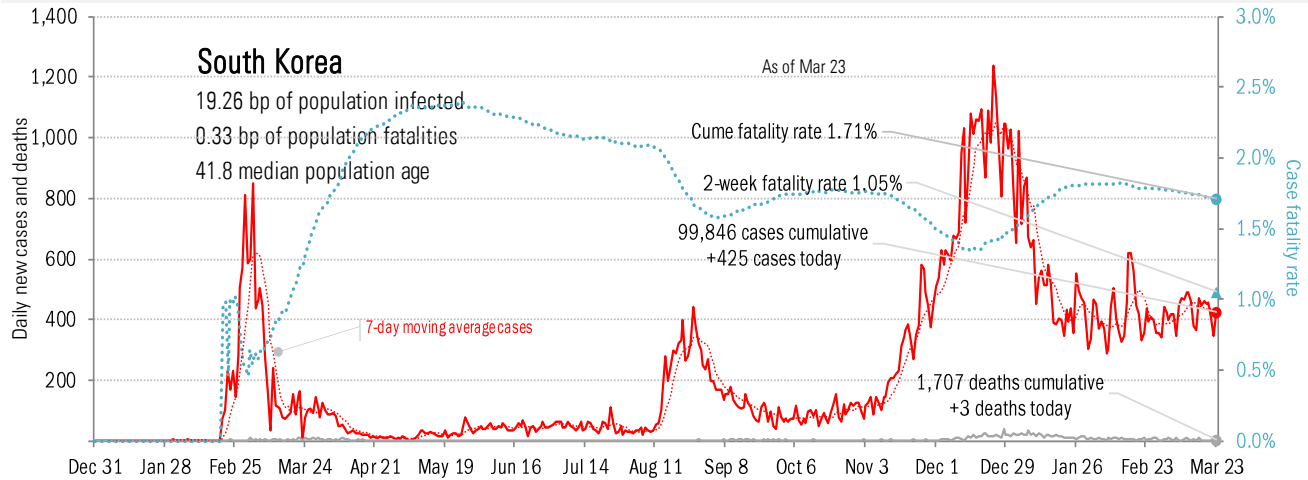


# Impact in continental Europe



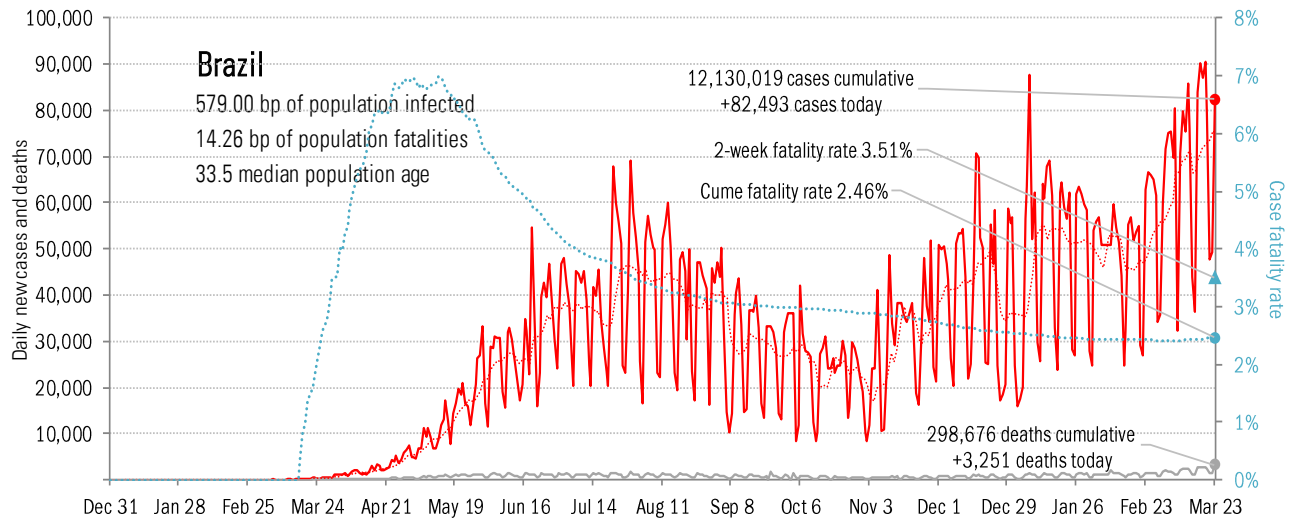
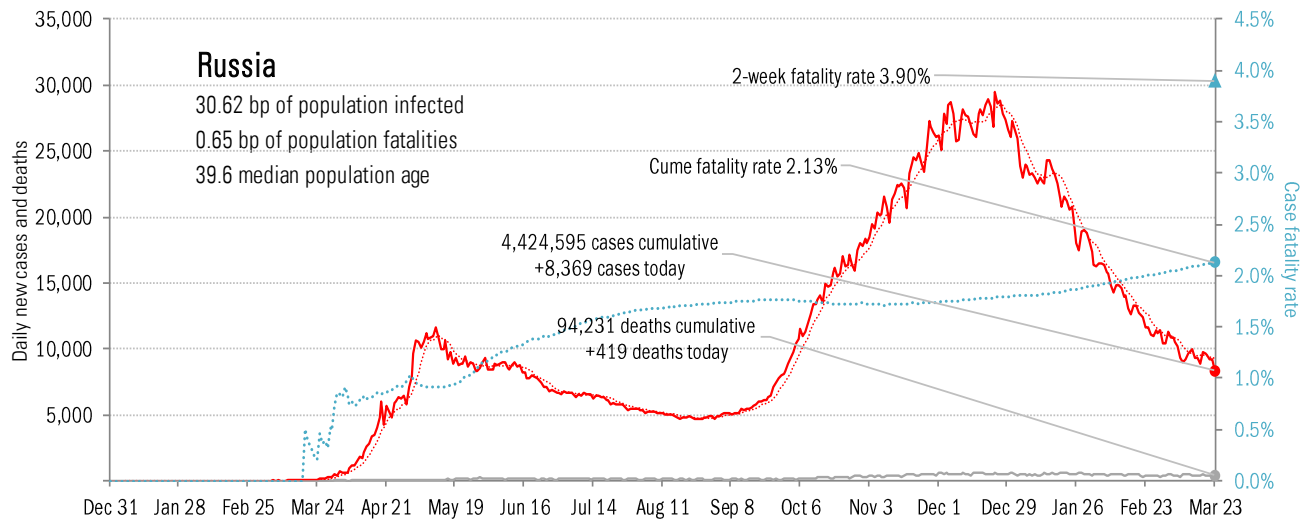
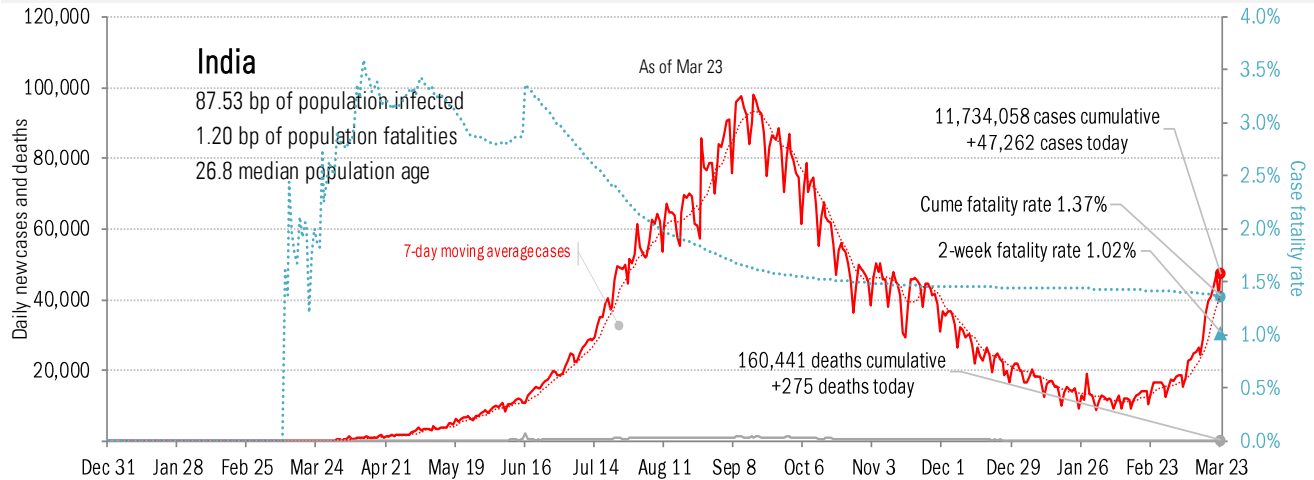
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



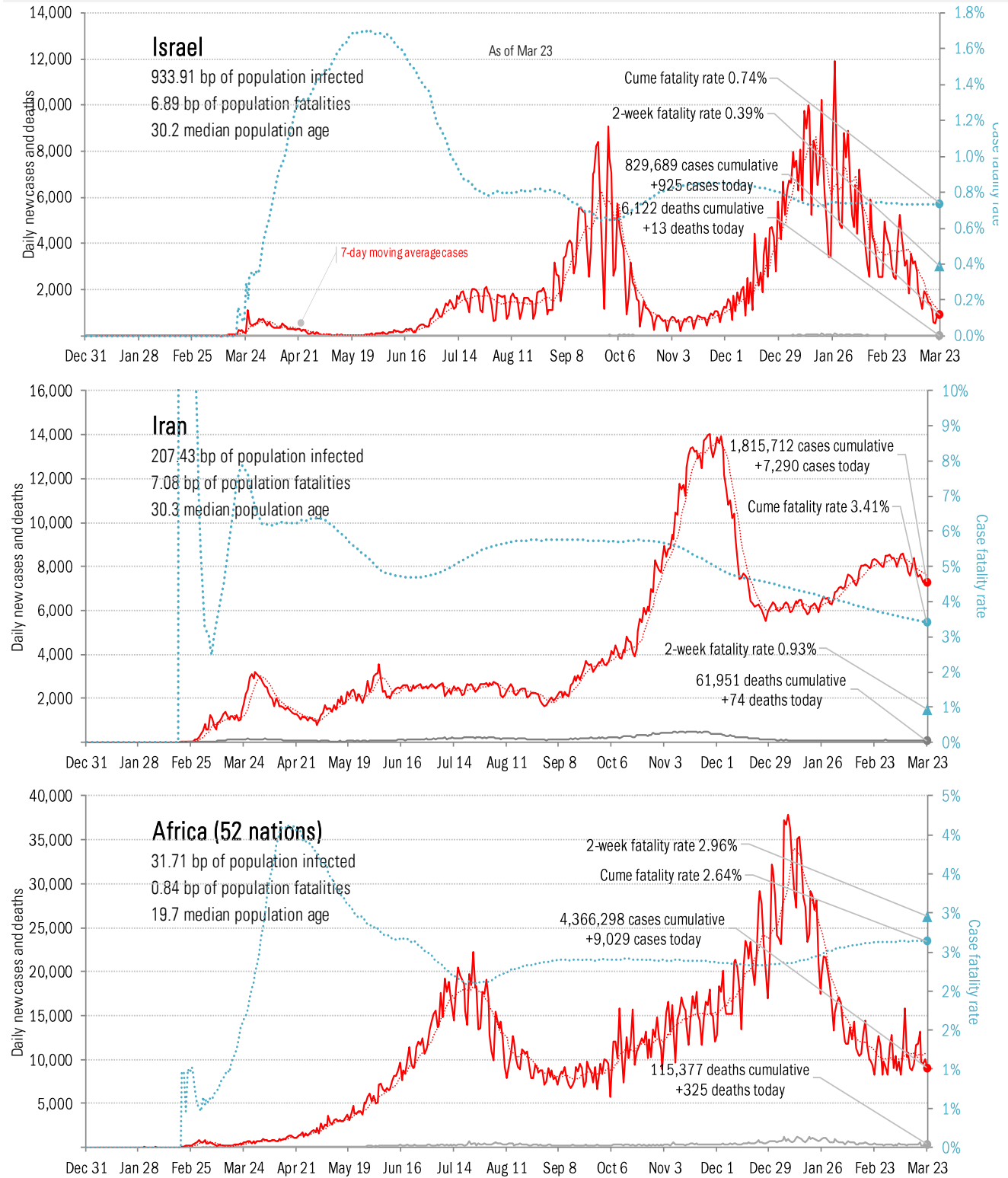
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



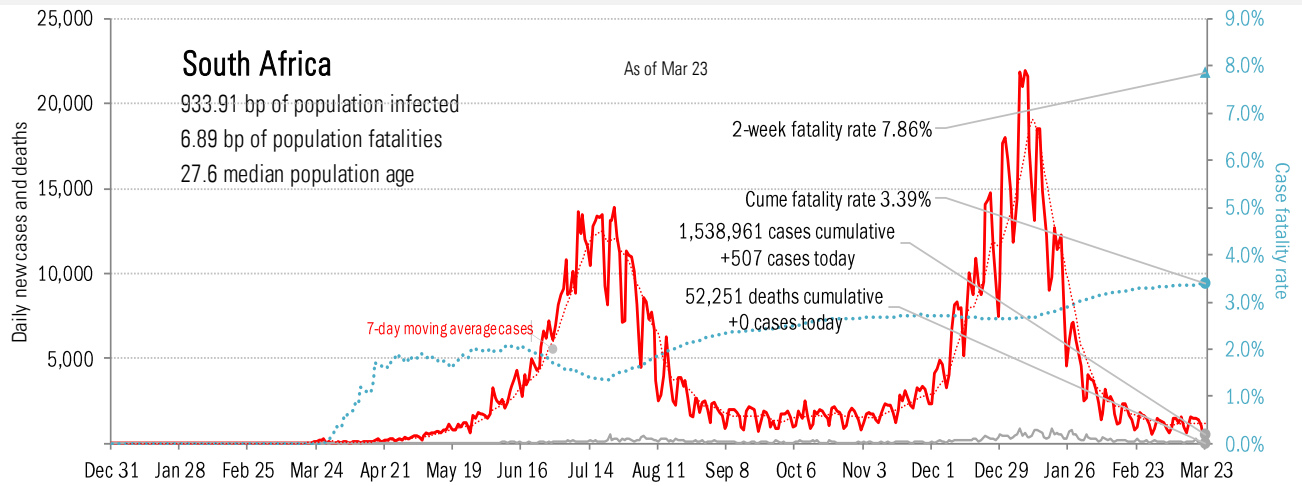
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

## Impact in Africa, continued



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