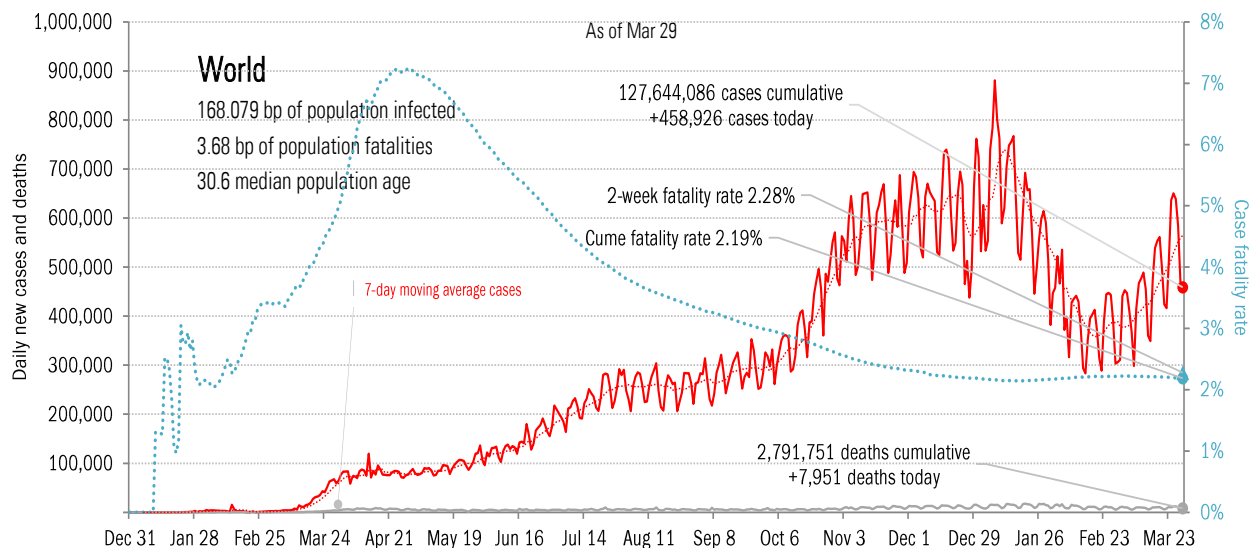
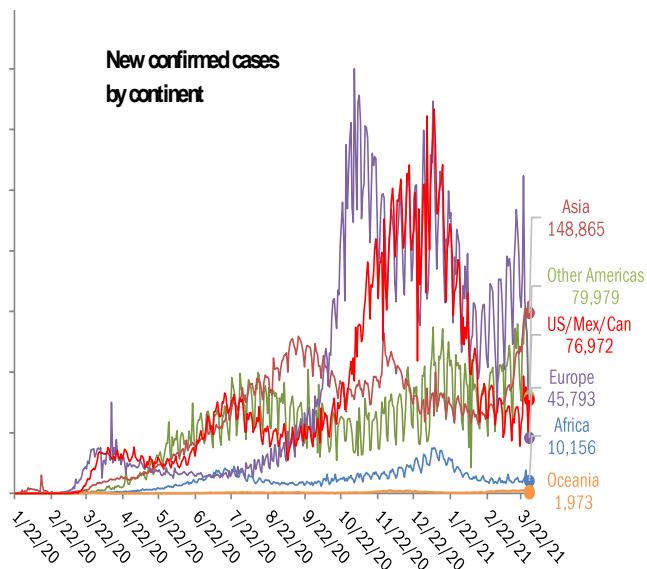


## Data Insights: Covid-2019 Monitor

Tuesday, March 30, 2021

### The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+69,417	Brazil	+1,660
India	+56,211	United States	+701
Brazil	+38,927	Italy	+417
Turkey	+32,404	France	+360
Poland	+16,973	Chile	+316
Spain	+15,501	Russia	+290
Argentina	+14,014	India	+271
Italy	+12,900	Mexico	+209
Germany	+10,297	Bosnia and Herzegovina	+207
Philippines	+10,002	Bulgaria	+203
<b>+276,646</b>		<b>+4,634</b>	
World	+458,926	World	+7,951
Top ten	60%	Top ten	58%



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

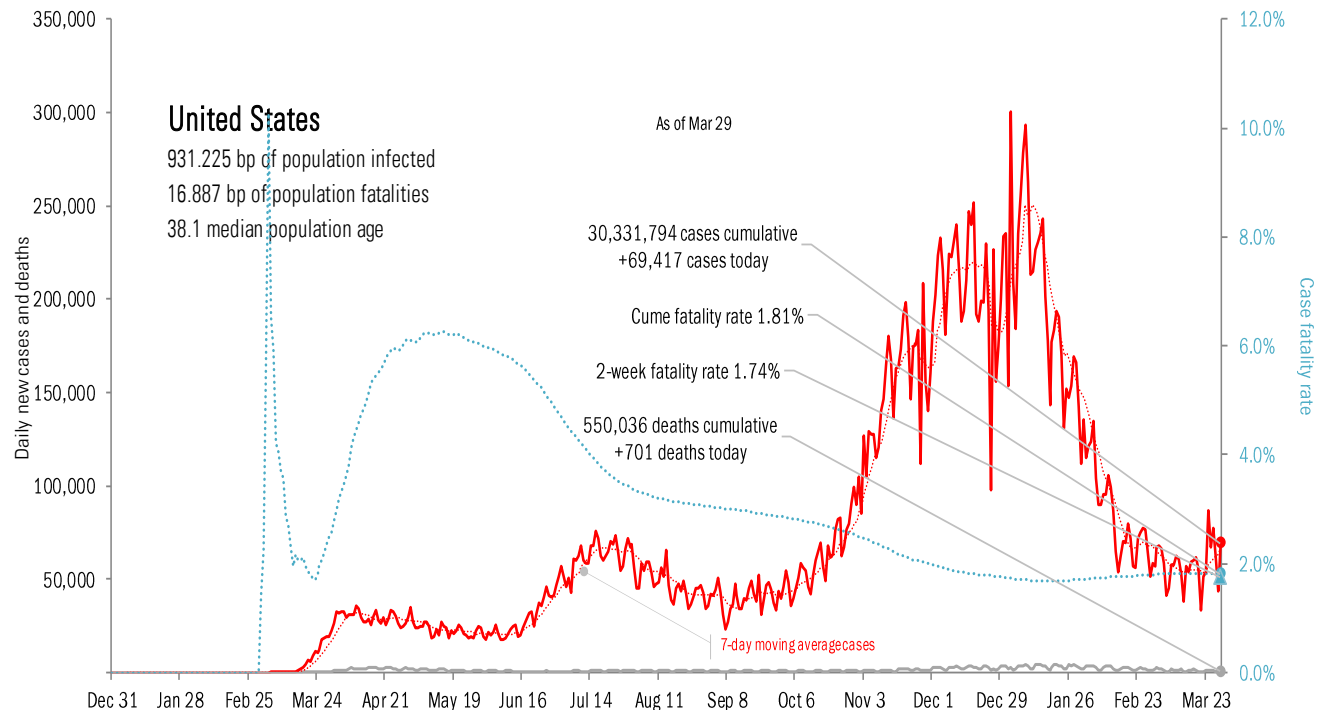
## The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
MI	+9,238		NY	+141		FL	+95		CA	3,663,913		CA	59,030		TX	225,358		RI	94%	MD	20%
NY	+8,742		CA	+81		MI	+84		TX	2,786,219		NY	50,158		CA	221,896		MA	83%	NY	19%
NC	+5,305		FL	+69		NY	+74		FL	2,047,379		TX	48,134		FL	150,903		MD	82%	MI	16%
PA	+4,150		NC	+57		MD	+39		NY	1,859,474		FL	33,247		NY	113,540		CT	81%	ID	14%
NJ	+3,621		TN	+50		CH	+37		IL	1,239,502		PA	24,991		GA	94,220		PA	79%	MS	14%
TX	+3,484		TX	+41		GA	+28		GA	1,056,421		NJ	24,404		CH	75,069		MI	79%	TX	14%
FL	+3,374		GA	+36		NJ	+26		PA	1,017,881		IL	23,527		PA	73,163		MO	78%	GA	13%
CT	+3,229		LA	+35		CO	+20		CH	1,013,119		GA	18,962		KY	67,976		GA	78%	WV	13%
CA	+3,200		VA	+21		IN	+20		NC	910,833		CH	18,525		IL	67,956		FL	78%	NJ	13%
TN	+2,900		PA	+20		TN	+19		NJ	900,273		MA	17,130		AZ	58,156		NC	77%	DC	12%
+47,243			+551			+442			16,495,014			318,108			1,148,237						
All states	+69,417			+701			+295		All states	30,331,794			550,036			2,041,448		All states	70%		67%
Top ten	68%			79%			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	
FL	-1,569	CA	-53	AL	-80	WY	+145 bp
NJ	-888	SC	-18	PA	-75	MS	+77 bp
KY	-660	IL	-17	CA	-56	RI	+75 bp
IL	-477	MA	-14	NC	-32	NY	+57 bp
MA	-475	TX	-13	MA	-25	H	+55 bp

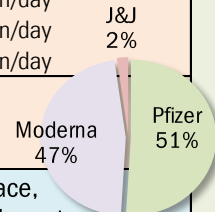


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

US overall	Over last day	Share pop full immunization
188.97 million doses distributed	+0.00 million/day	United States 15.7%
152.00 million doses administered	+2.42 million/day	United Kingdom 5.4%
98.46 million persons partially immunized	+1.41 million/day	France 3.9%
54.91 million persons fully immunized	+1.06 million/day	Spain 5.6%
7.72 million shots long-term care residents/staff	+0.00 million/day	Germany 4.6%

**80.4% of distributed doses administered**  
**29.5% of US pop partial**      **16.4% full immunity**  
**100% of LTC partial**      **63.3% full immunity**



Country	Share pop full immunization
United States	15.7%
United Kingdom	5.4%
France	3.9%
Spain	5.6%
Germany	4.6%
Italy	5.0%
Australia	0.6%
Israel	54.8%
Canada	1.8%
Japan	0.1%
Africa	0.3%
India	0.7%
Brazil	1.9%

At today's dosing pace,  
every American will have two in  
**209 days**  
by Oct 23, 2021  
US will achieve herd immunity in  
**75 days**  
by Jun 11, 2021

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

AK
78.0%
33.7%
22.0%

Global data differs due to sources

China NA	ME
	58.9%
	33.7%
	19.3%

WI
51.5%
31.3%
18.2%

VT	NH
63.0%	54.7%
32.6%	30.2%
17.8%	17.0%

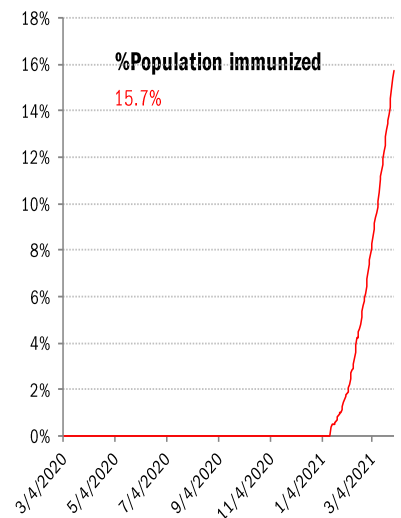
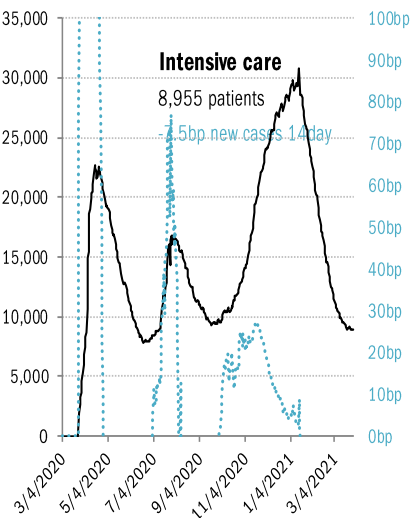
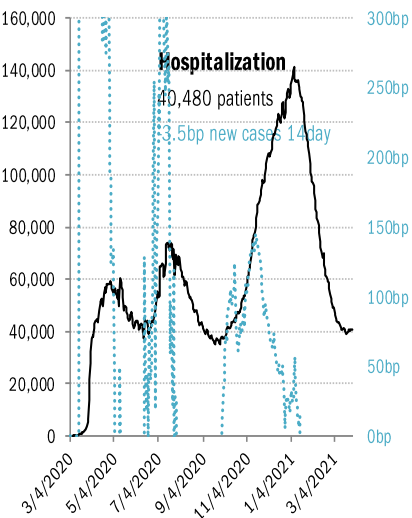
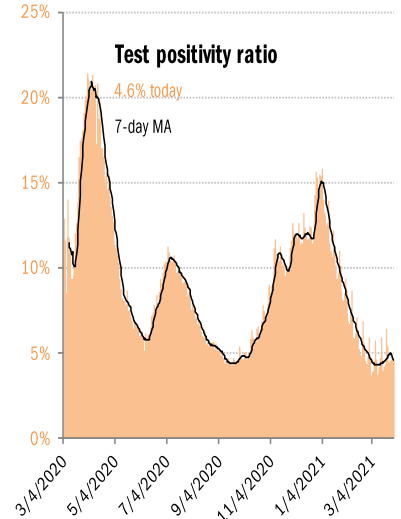
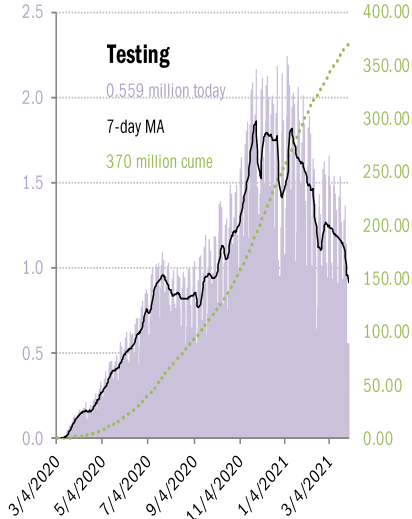
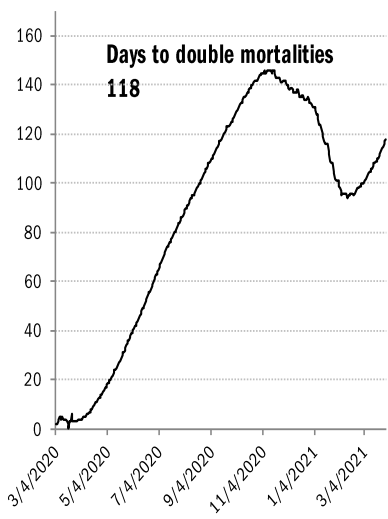
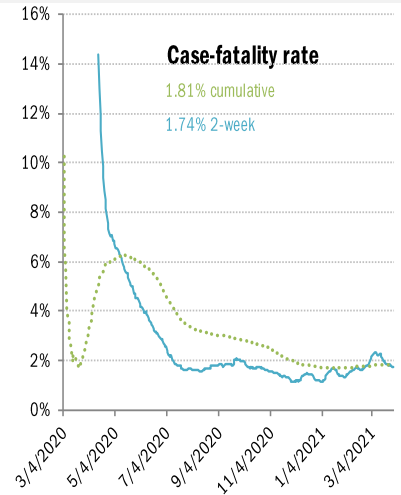
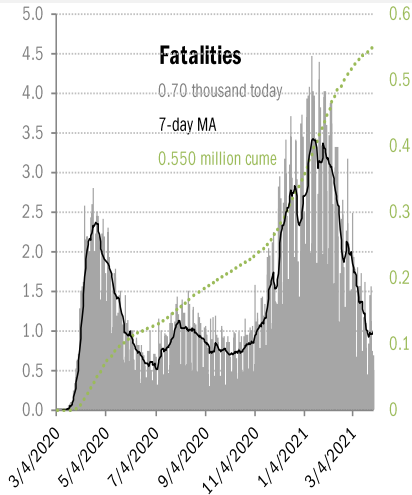
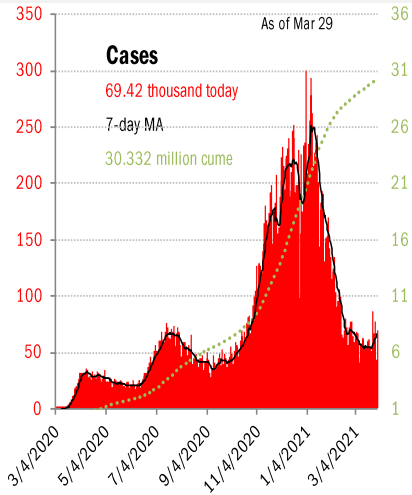
<b>WA</b> 54.0% 29.3% 17.3%	<b>ID</b> 50.9% 25.3% 16.1%	<b>MT</b> 59.2% 29.7% 18.2%	<b>ND</b> 57.4% 31.1% 19.9%	<b>MN</b> 51.5% 30.6% 18.1%	<b>IL</b> 54.3% 30.2% 16.1%	<b>MI</b> 52.6% 27.8% 16.5%	<b>NY</b> 57.1% 30.1% 15.8%	<b>MA</b> 55.8% 33.3% 18.2%		
<b>OR</b> 52.3% 27.5% 16.1%	<b>NV</b> 50.3% 27.4% 15.7%	<b>WY</b> 61.2% 27.1% 18.1%	<b>SD</b> 65.7% 34.3% 21.9%	<b>IA</b> 53.8% 30.3% 19.0%	<b>IN</b> 49.4% 24.9% 16.3%	<b>OH</b> 54.6% 28.4% 16.4%	<b>PA</b> 56.0% 31.0% 16.1%	<b>NJ</b> 54.0% 32.2% 17.6%	<b>CT</b> 62.0% 34.4% 19.6%	<b>RI</b> 58.2% 31.8% 20.1%
<b>CA</b> 55.3% 29.9% 15.5%	<b>UT</b> 46.8% 24.5% 10.9%	<b>CO</b> 53.1% 28.9% 17.0%	<b>NE</b> 55.4% 29.9% 17.4%	<b>MO</b> 53.1% 25.2% 14.5%	<b>KY</b> 53.1% 30.6% 16.8%	<b>WV</b> 59.6% 29.3% 18.5%	<b>VA</b> 52.6% 29.9% 16.2%	<b>MD</b> 55.2% 30.0% 16.2%	<b>DE</b> 57.0% 29.8% 15.7%	
	<b>AZ</b> 54.5% 28.9% 16.6%	<b>NM</b> 63.8% 37.5% 23.1%	<b>KS</b> 56.4% 29.3% 16.4%	<b>AR</b> 55.1% 25.5% 13.5%	<b>TN</b> 52.1% 24.4% 13.4%	<b>NC</b> 54.2% 28.4% 16.0%	<b>SC</b> 51.5% 26.8% 14.7%	<b>DC</b> 69.7% 25.7% 12.9%		
			<b>OK</b> 64.0% 30.4% 17.3%	<b>LA</b> 54.9% 25.6% 15.8%	<b>MS</b> 54.3% 24.3% 14.7%	<b>AL</b> 51.7% 22.7% 12.9%	<b>GA</b> 50.7% 23.1% 12.0%			
			<b>TX</b> 50.6% 24.9% 13.0%					<b>FL</b> 56.9% 27.2% 15.1%		<b>PR</b> 58.9% 21.5% 12.3%

As of Mar 29

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

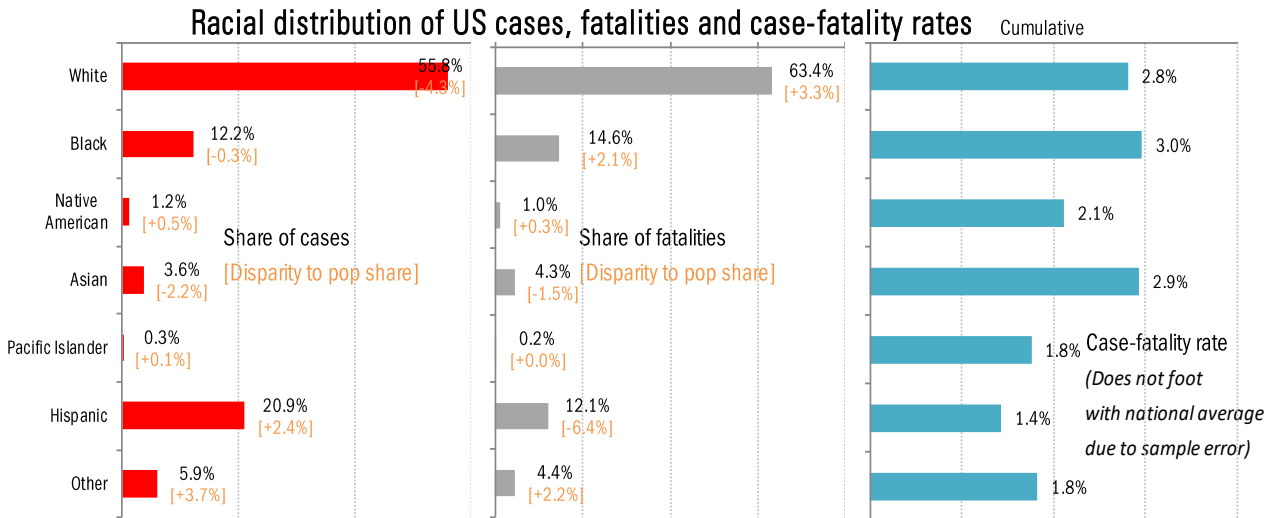
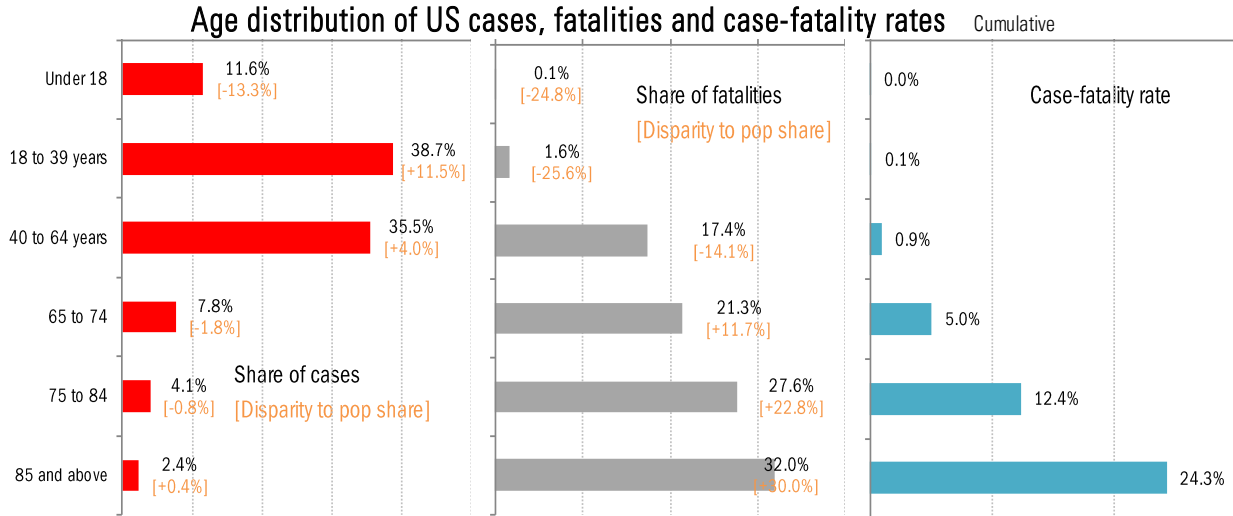
# US deep-dive

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

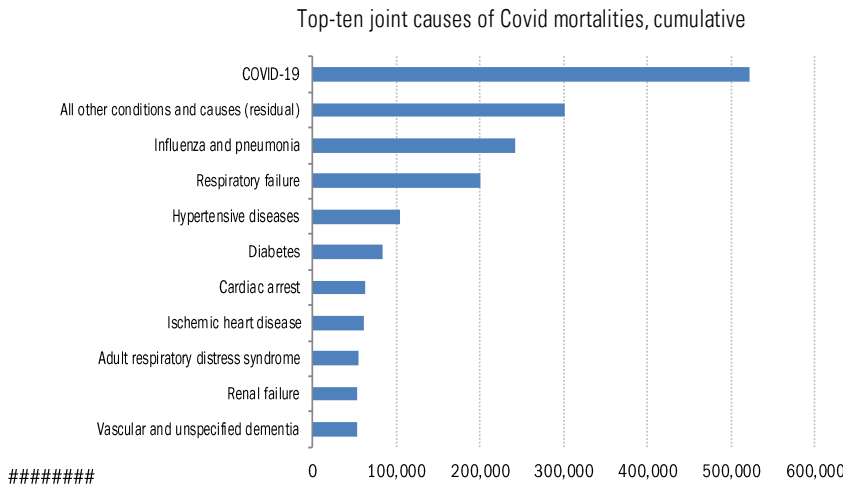


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

# 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

[Biden Pushes Mask Mandate as C.D.C. Director Warns of 'Impending Doom'](#)

Sharon LaFraniere and Sheryl Gay Stolberg  
*New York Times*  
March 29, 2021

['No Excuse Not to Be Vaccinated' in Texas, Which Expands Eligibility to All Adults](#)

Edgar Sandoval  
*New York Times*  
March 29, 2021

[The Moderna and Pfizer-BioNTech vaccines are very effective in real-world conditions at preventing infections, the C.D.C. reported.](#)

Gina Kolata  
*New York Times*  
March 29, 2021

[Texas' COVID numbers fall for the 17th consecutive day following Gov. Abbott's 100% reopening of the state and lifting of the mask mandate - a move that Biden infamously called 'Neanderthal thinking'](#)

Karen Ruiz  
*Daily Mail*  
March 27, 2021

[Fear Me Not! I Got My COVID Vaccine.](#)

Bryan Kaplan  
*The Library of Economics and Liberty*  
March 29, 2021

[GOP representative-elect urges Republicans to get vaccinated after husband's coronavirus death](#)

Sarah Polus  
*The Hill*  
March 28, 2021

['Vaccine passports' are on the way, but developing them won't be easy](#)

Dan Diamond, Lena H. Sun, Isaac Stanley-Becker  
*Washington Post*  
March 28, 2021

[Fauci downplays possibility that COVID leaked from Chinese lab his agency helped finance](#)

Daniel Payne  
*Just the News*  
March 27, 2021

[Former CDC chief Redfield says he thinks COVID-19 originated in a Chinese lab](#)

*Reuters*  
March 27, 2021

[An Interview with Richard Ebright: The WHO Investigation Members Were "participants in disinformation"](#)

Jorge Casesmeiro Roger  
*Independent Science News*  
March 24, 2021

[Call for a Full and Unrestricted International Forensic Investigation into the Origins of COVID-19](#)

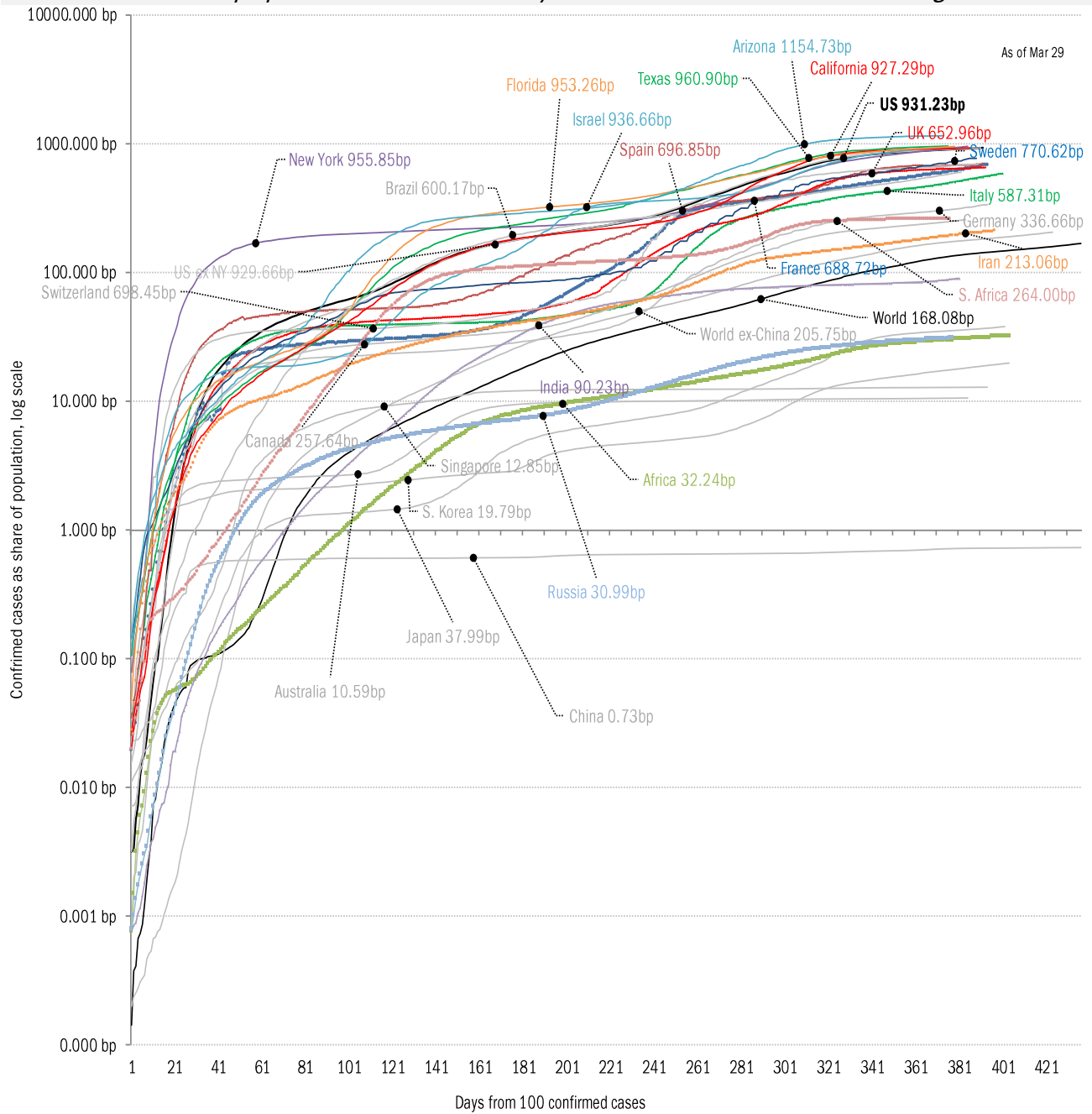
Richard Ebright et al.  
*Open letter*  
March 4, 2021

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*

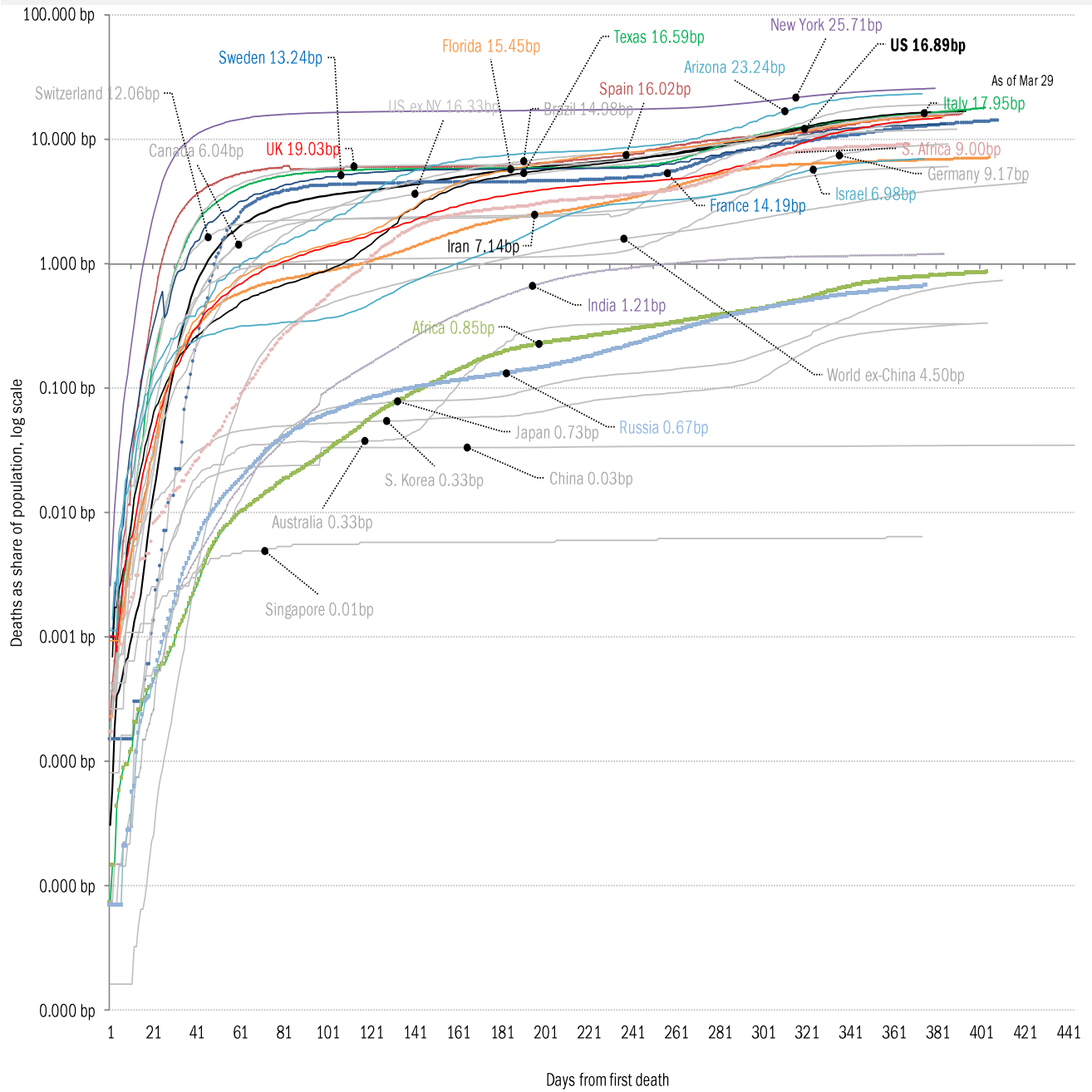


Source: [Johns Hopkins](#), TrendMacro calculations



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

## Share of deceased population from day of first fatality

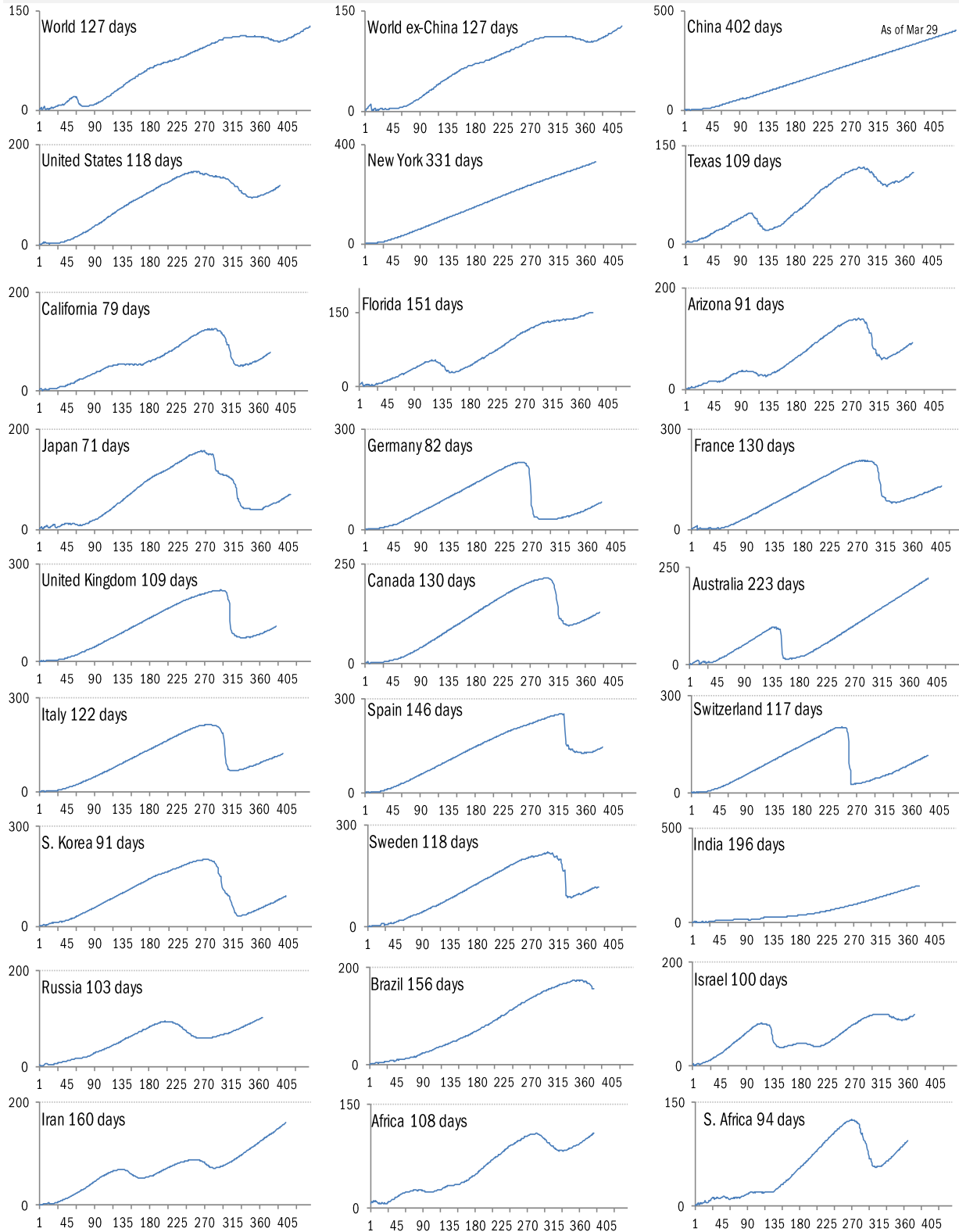


Source: [Johns Hopkins](#), TrendMacro calculations

# "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

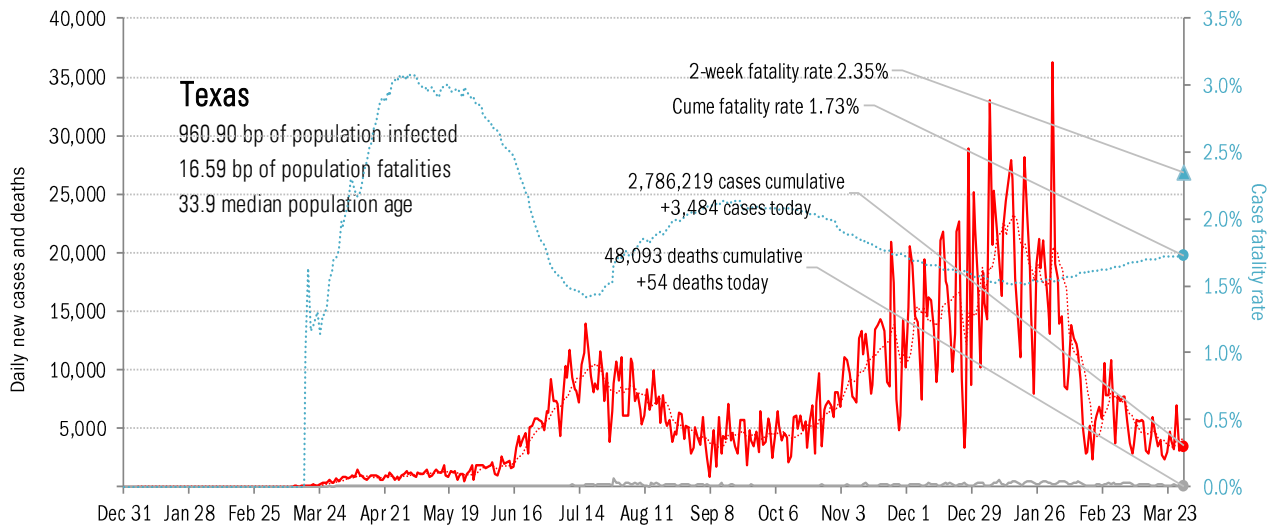
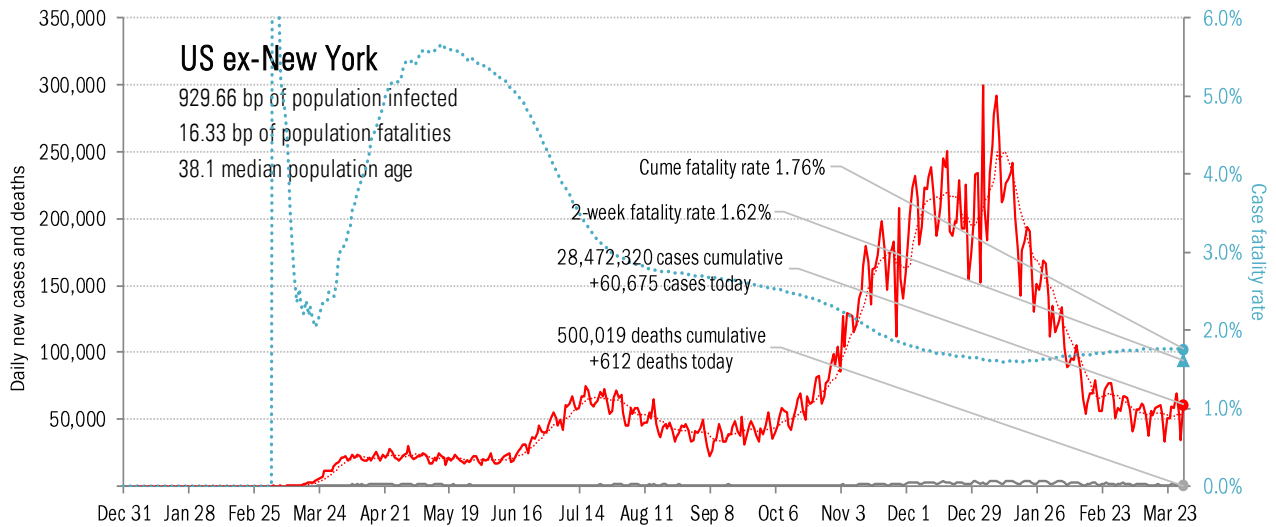
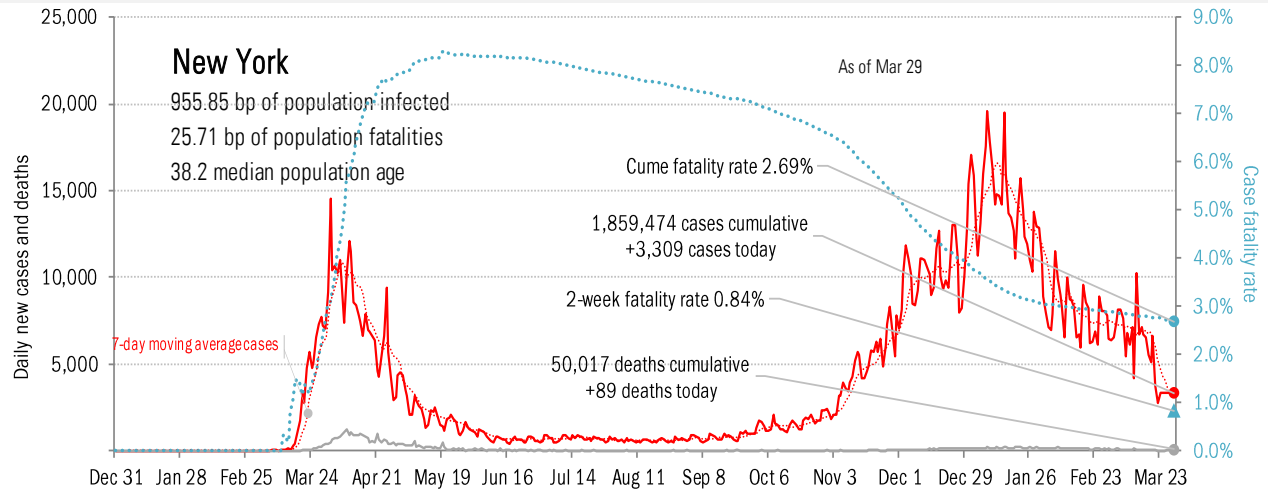
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



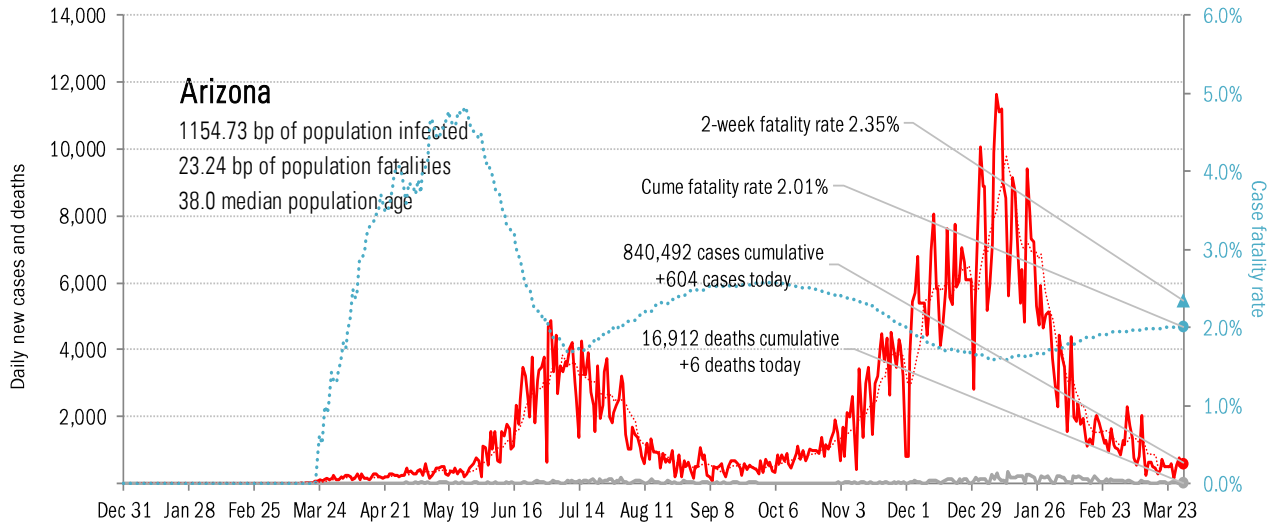
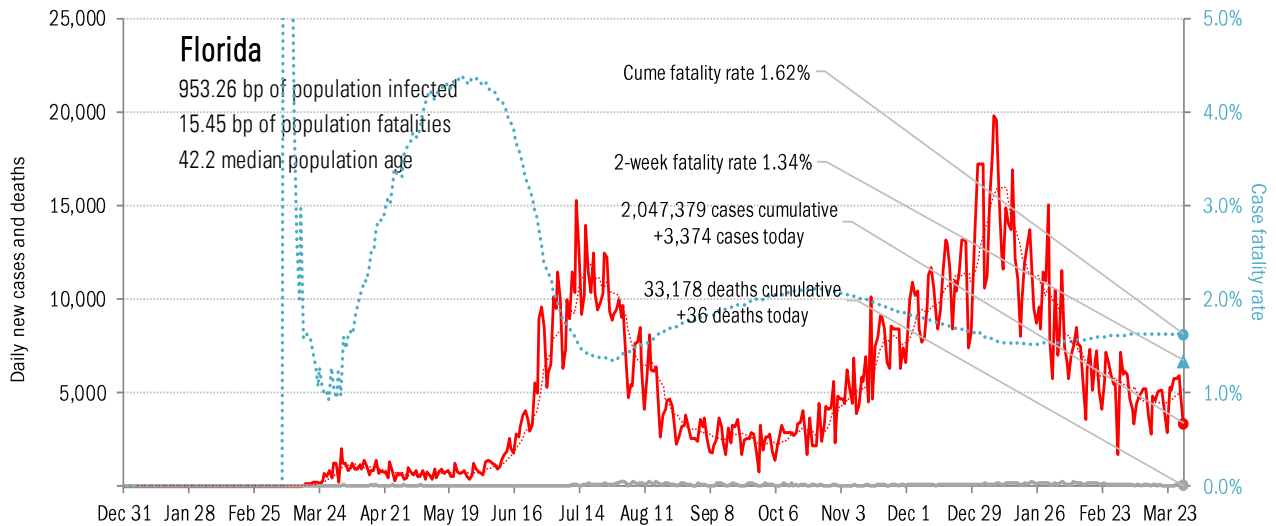
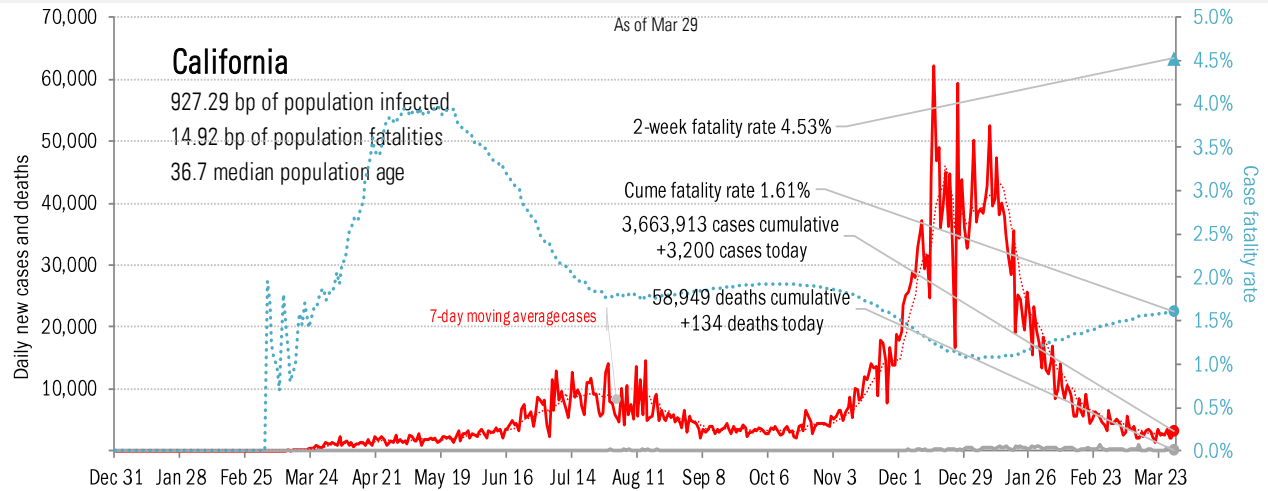
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



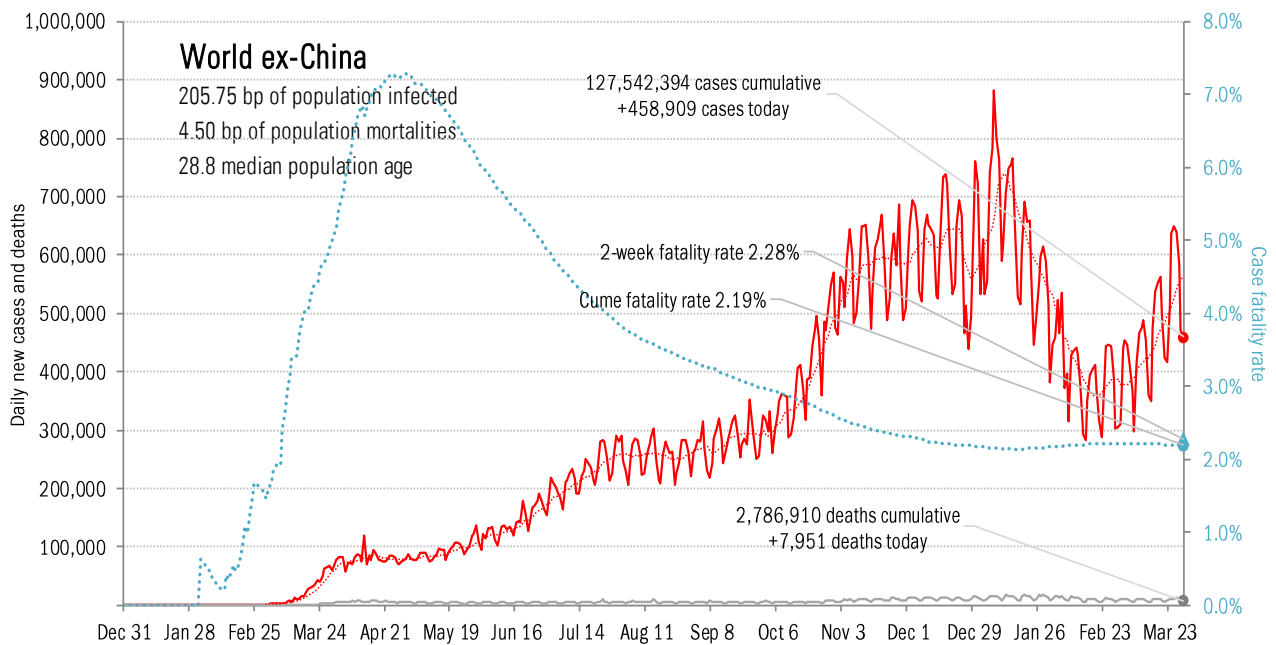
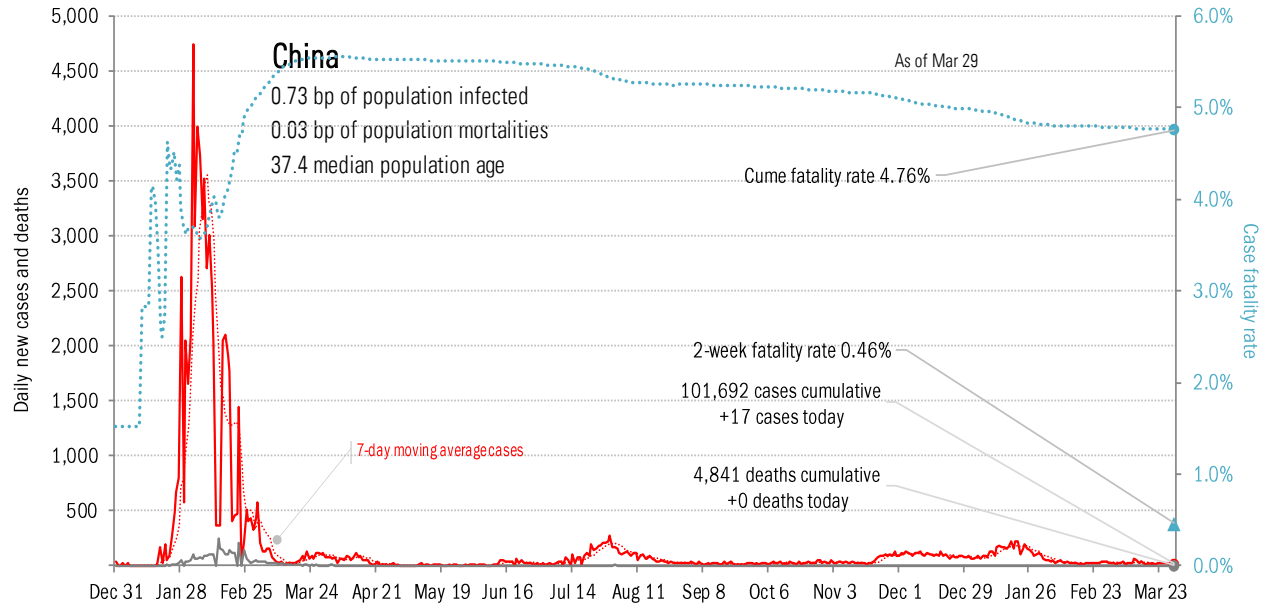
Source: [Johns Hopkins](#), TrendMacro calculations

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



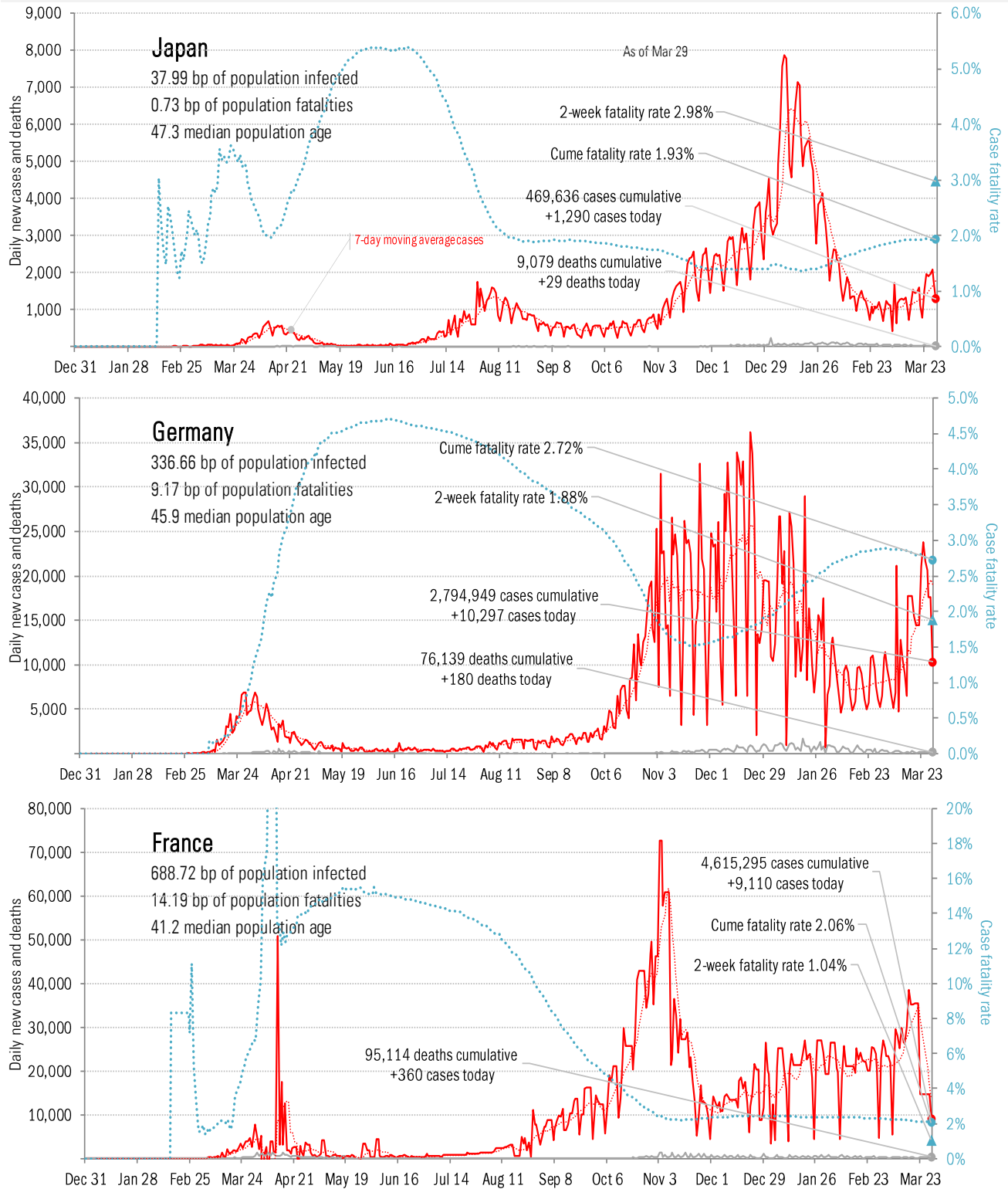
Source: [Johns Hopkins](#), TrendMacro calculations

# Patient zero... and then everyone else



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

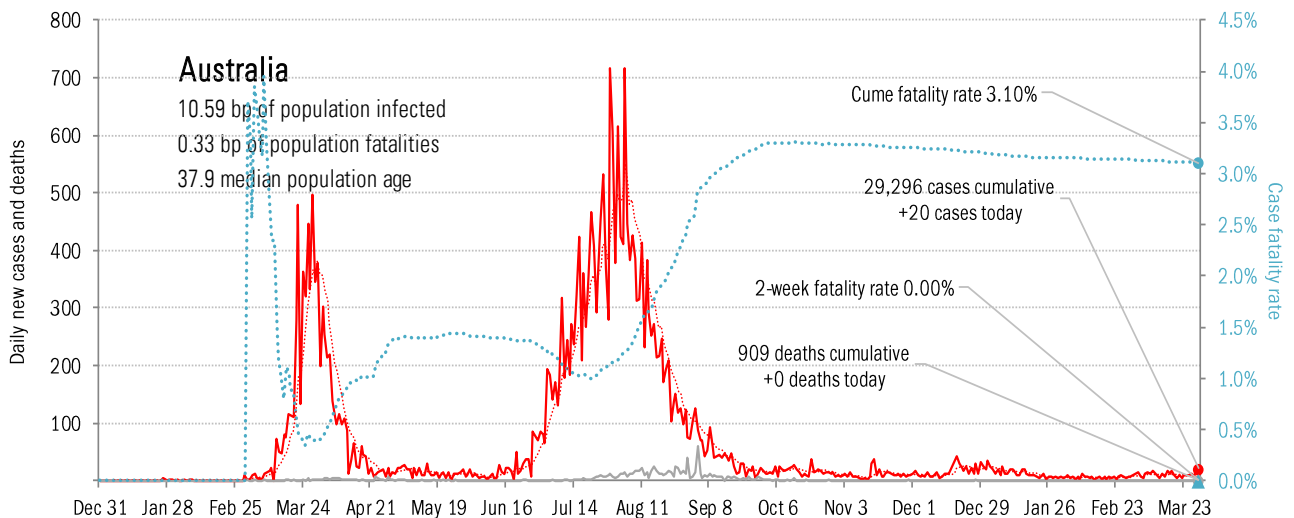
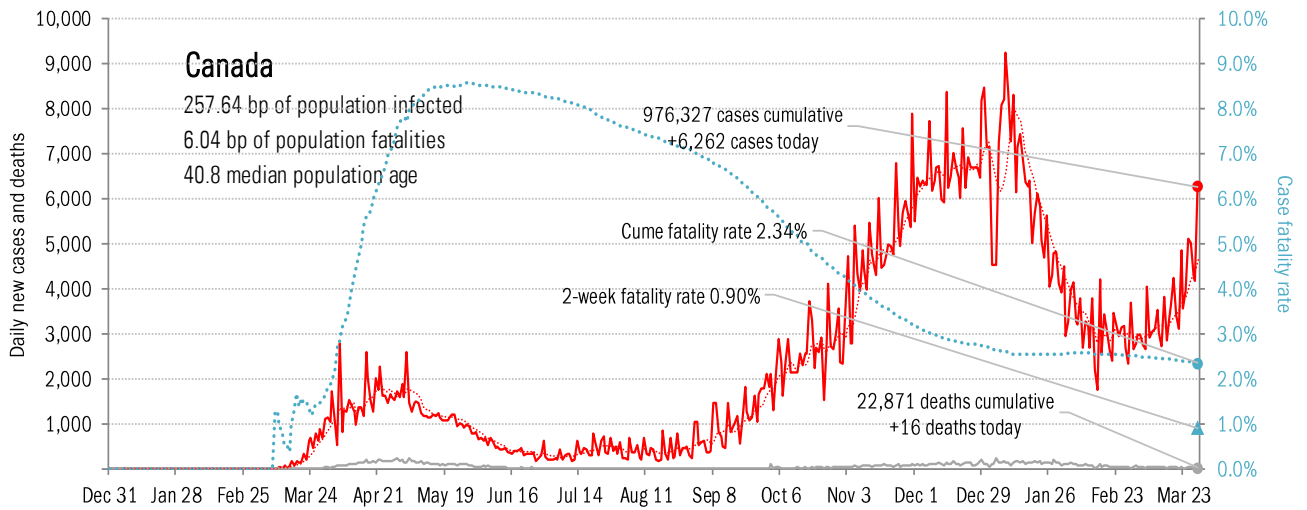
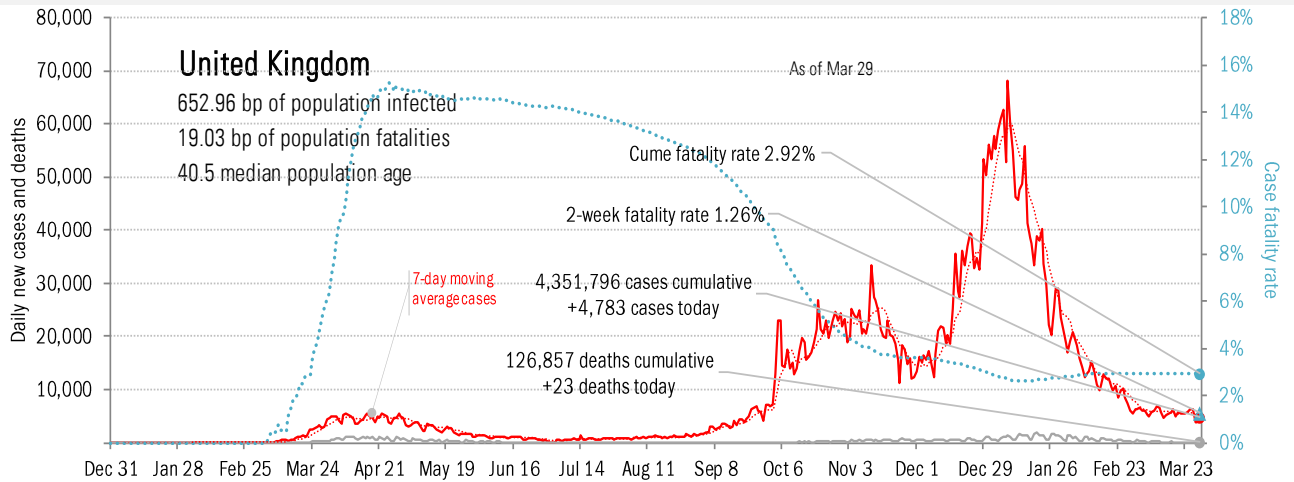
# Impact in the largest economies



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

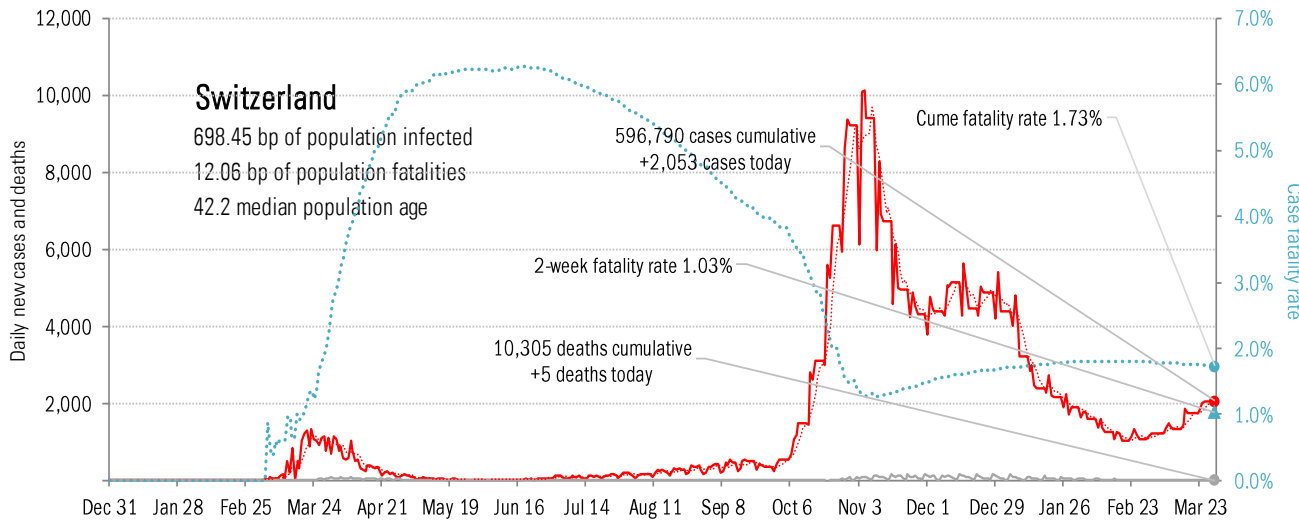
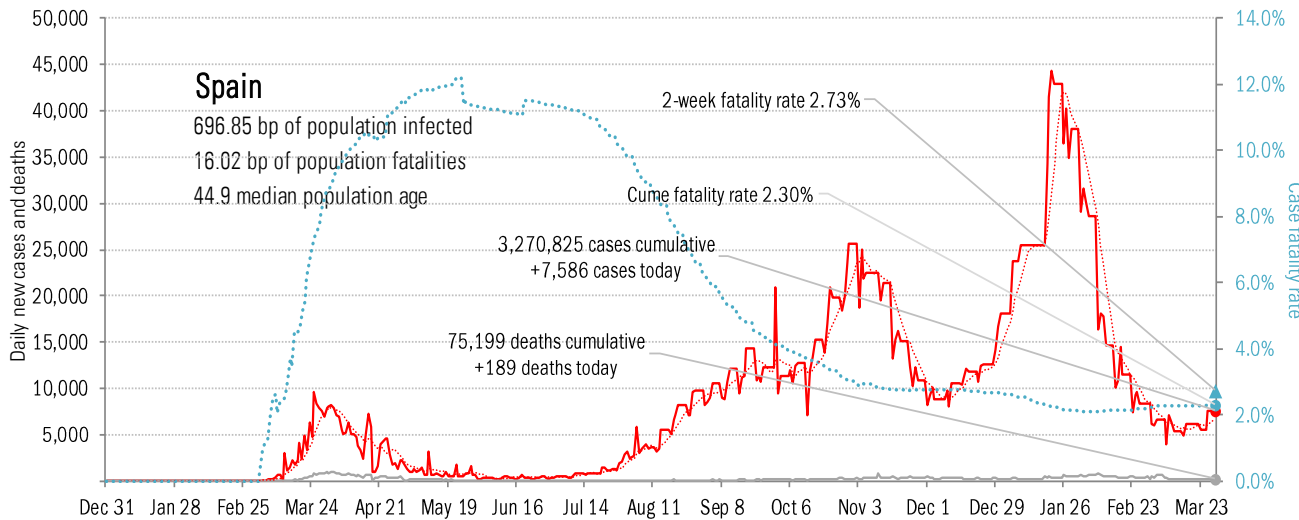
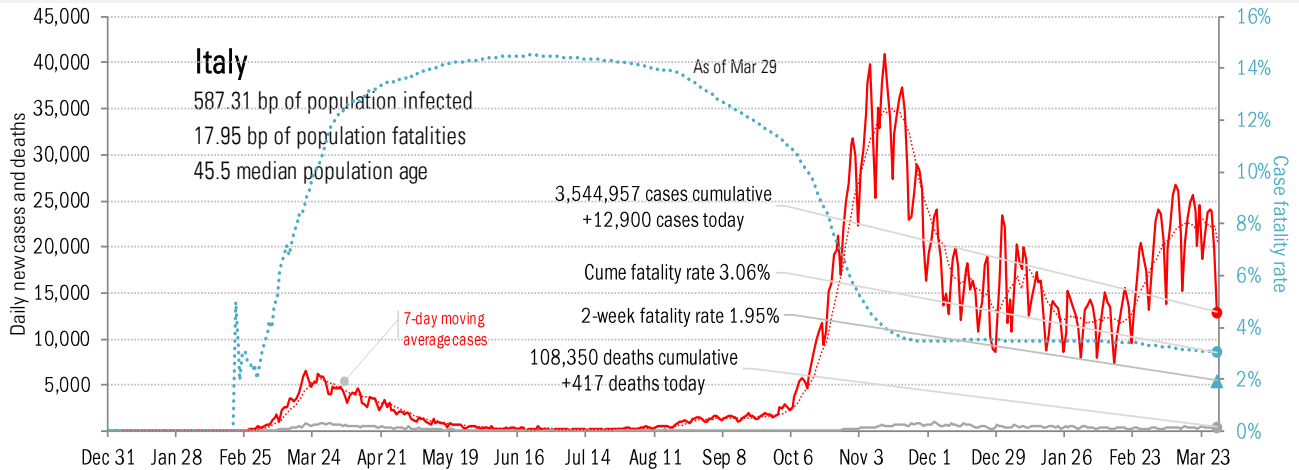


# Impact in The Anglosphere



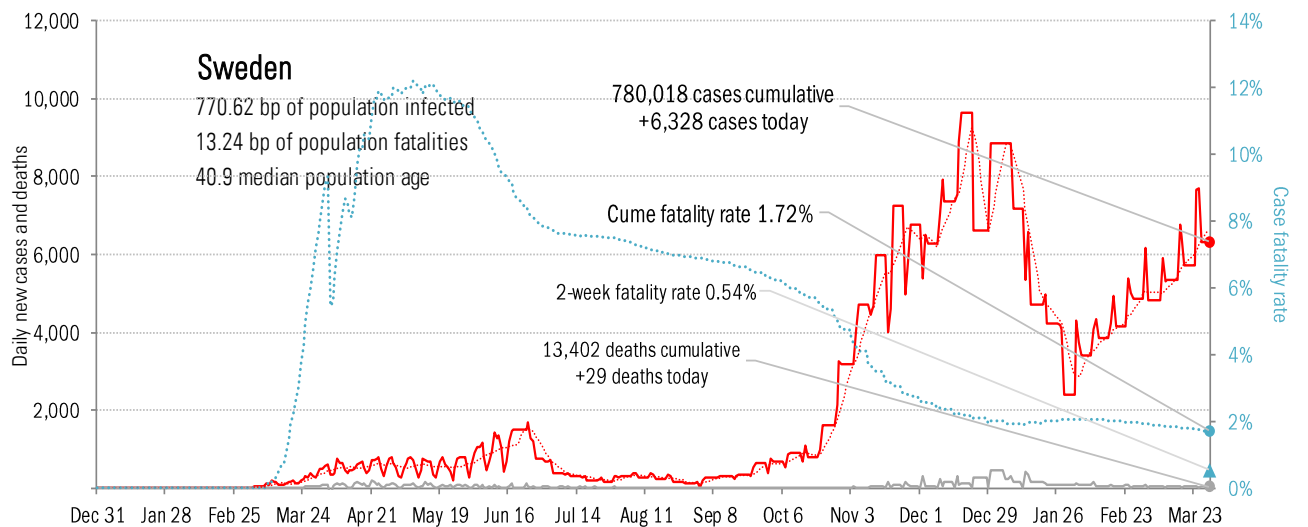
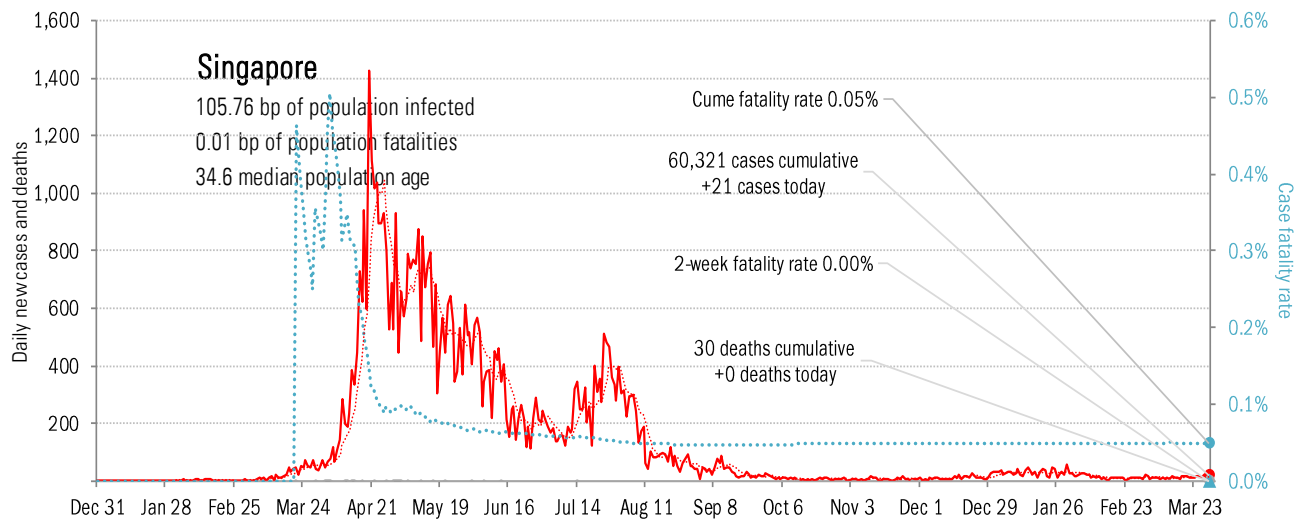
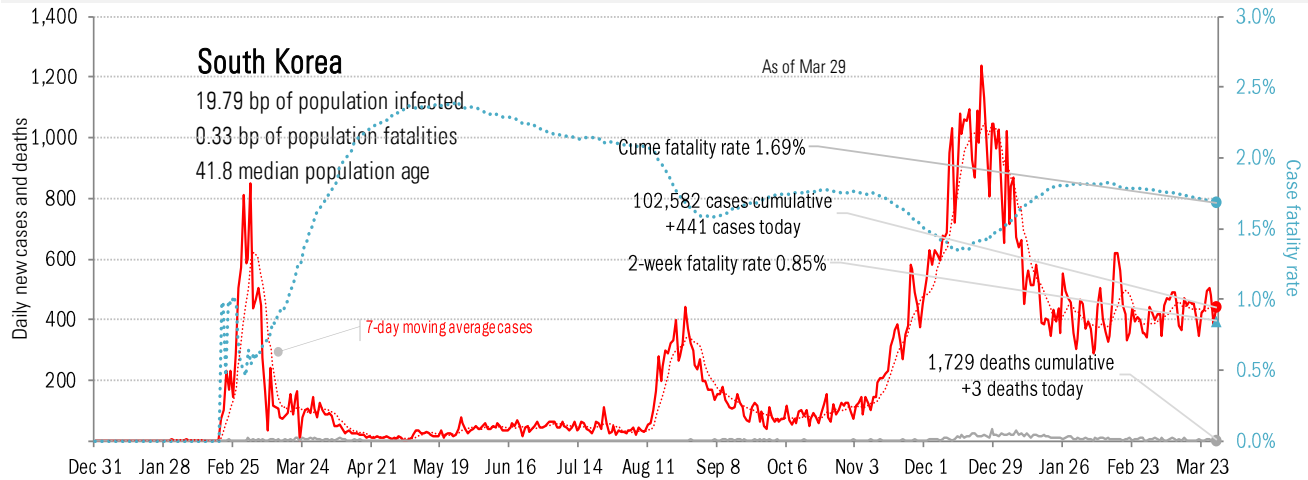
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in continental Europe



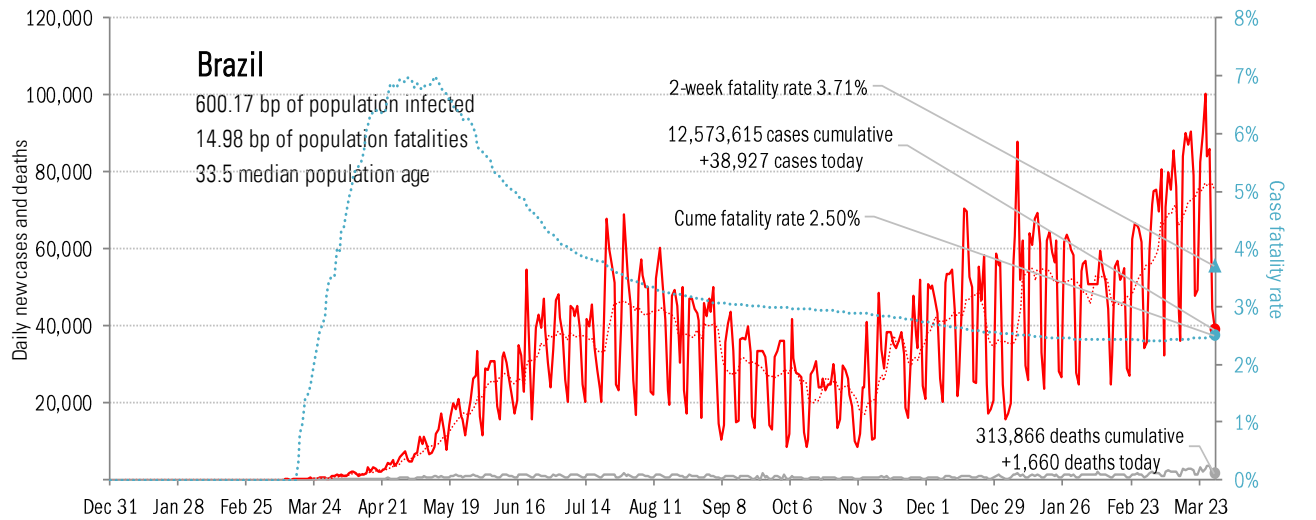
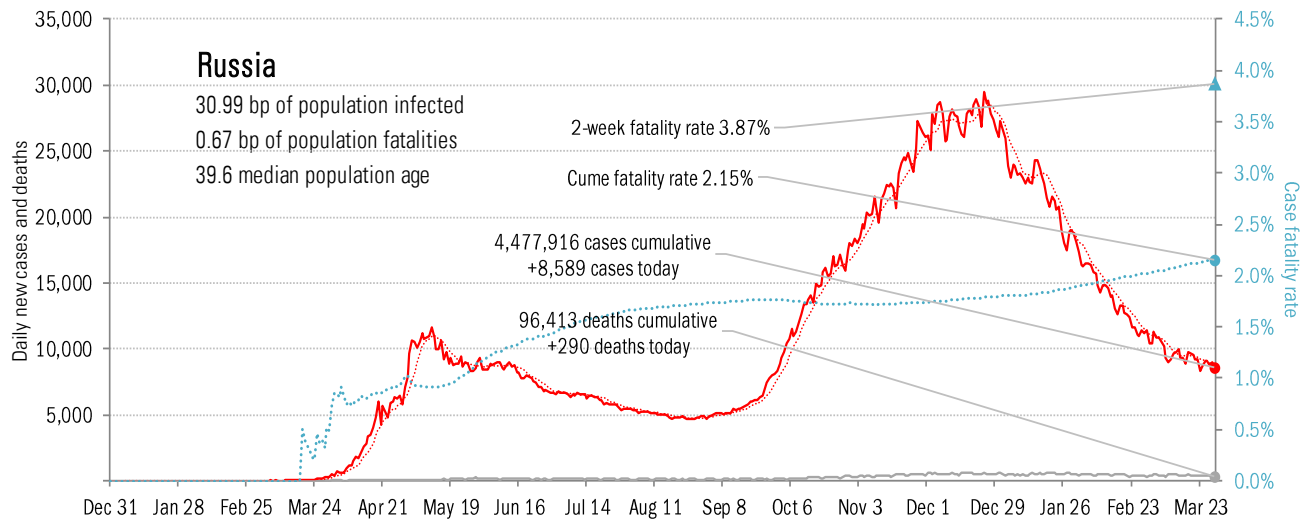
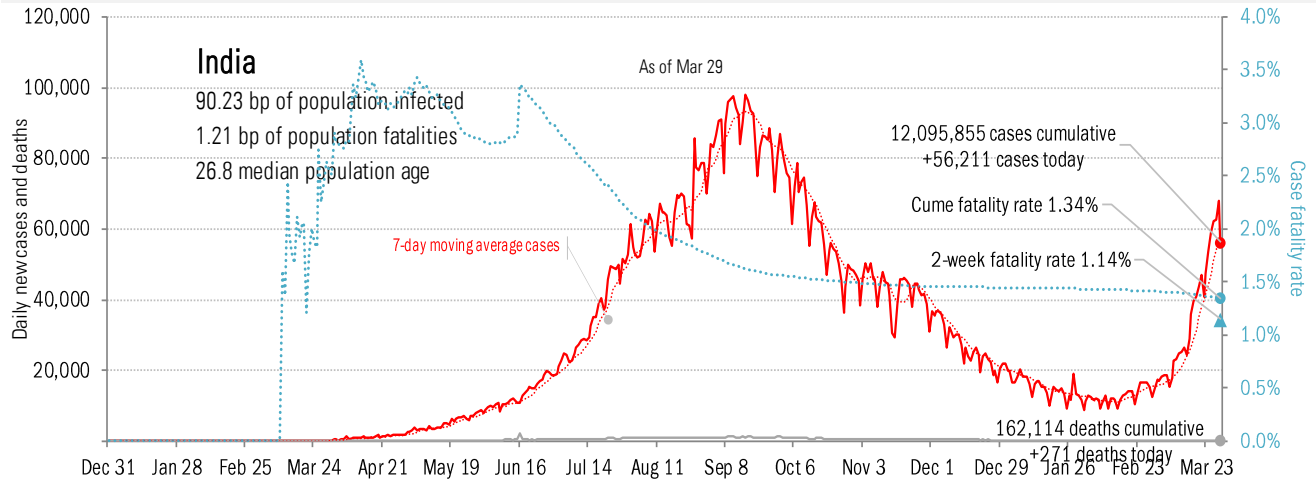
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



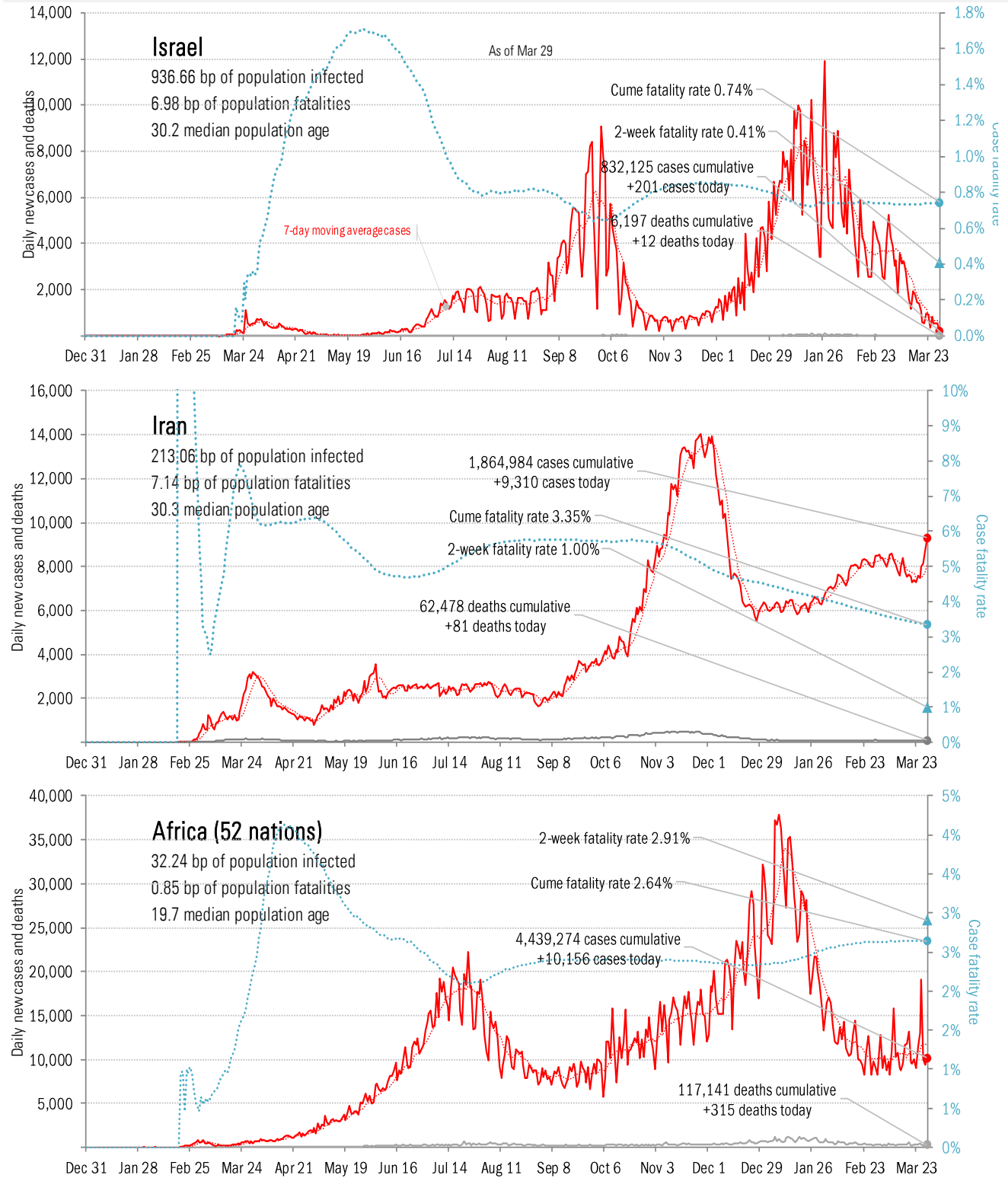
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



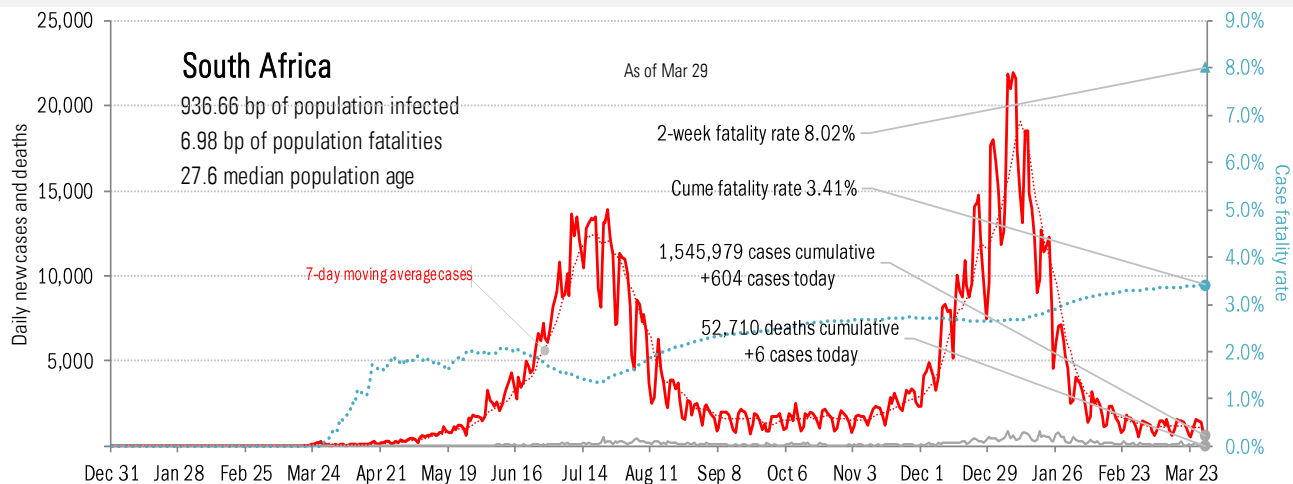
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

# Impact in Africa, continued



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