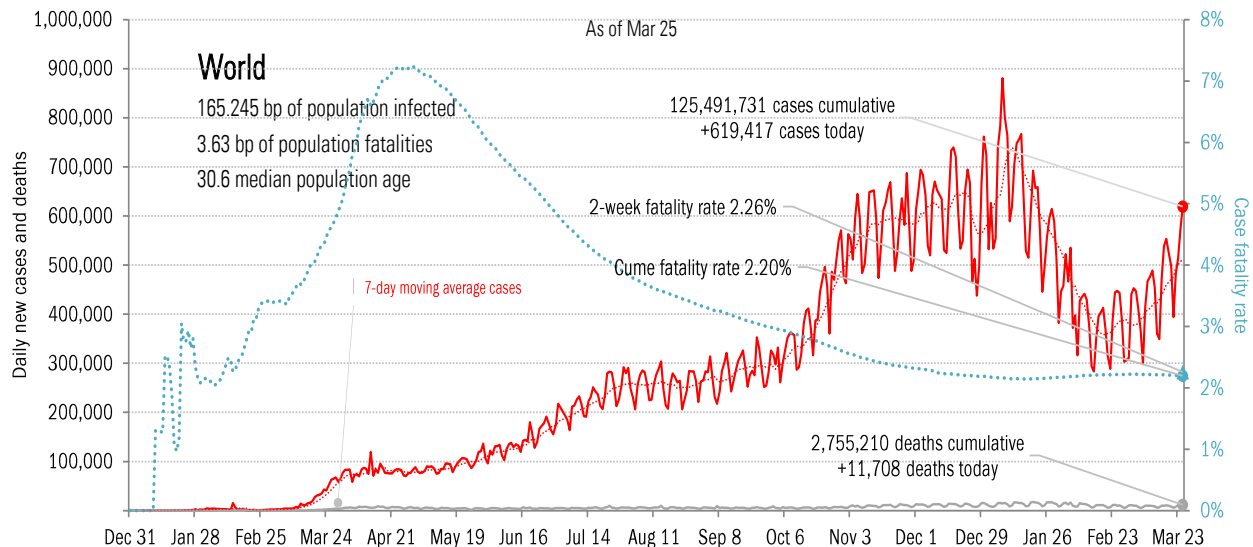
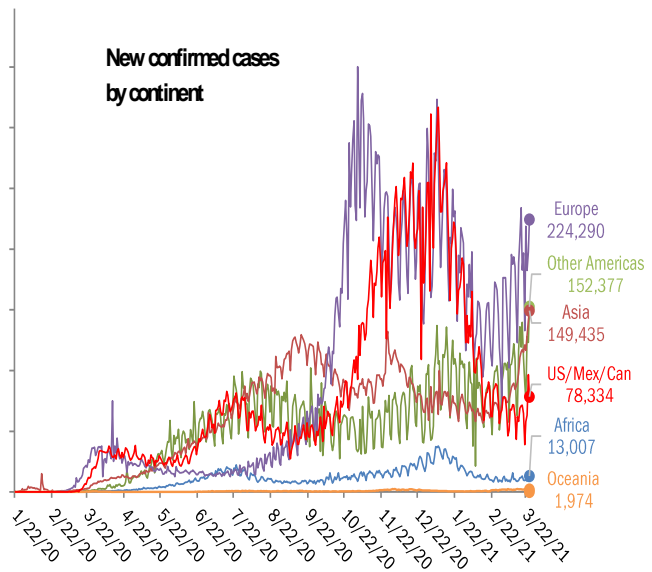


Data Insights: Covid-2019 Monitor

Friday, March 26, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
France	+109,885	Brazil	+2,777
Brazil	+100,158	United States	+1,558
United States	+67,443	Spain	+676
India	+59,118	Mexico	+584
Poland	+34,150	Poland	+520
Turkey	+28,731	Italy	+460
Italy	+23,681	France	+452
Germany	+21,620	Russia	+386
Peru	+19,206	Ukraine	+369
Ukraine	+16,762	Peru	+357
+480,754		+8,139	
World	+619,417	World	+11,708
Topten	78%	Topten	70%



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

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

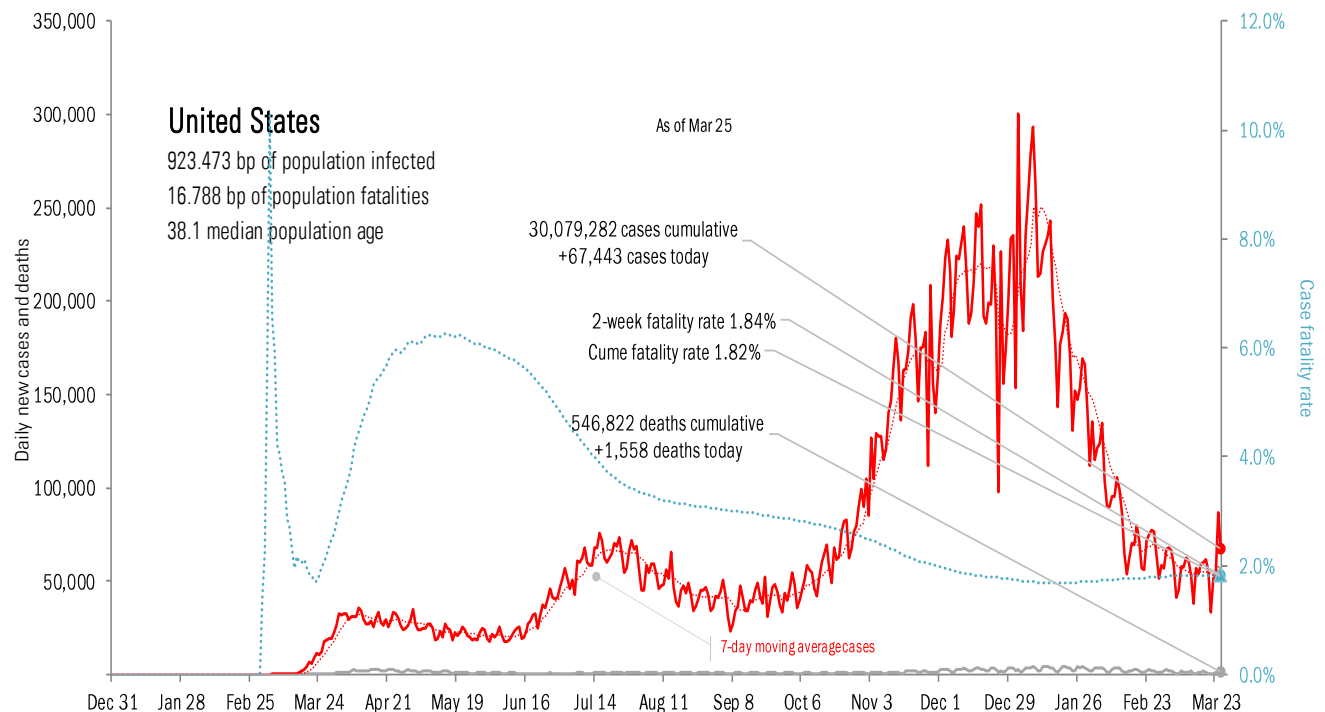
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
NY	+8,551		CA	+476		MI	+97		CA	3,653,168		CA	58,434		TX	222,778		RI	94%	NY	19%
MI	+5,843		TX	+133		PA	+59		TX	2,769,451		NY	49,790		CA	219,763		ID	83%	MD	18%
FL	+5,773		FL	+107		FL	+52		FL	2,027,429		TX	47,822		FL	147,730		MA	82%	DC	16%
NJ	+3,946		KY	+107		GA	+51		NY	1,825,069		FL	32,957		NY	109,577		MD	80%	TX	15%
PA	+3,598		NC	+93		NY	+32		IL	1,229,806		PA	24,898		GA	92,807		PA	80%	GA	14%
TX	+3,192		GA	+91		CH	+26		GA	1,051,361		NJ	24,330		CH	73,979		CT	79%	MS	14%
CA	+2,530		NY	+73		MN	+25		CH	1,006,171		IL	23,442		PA	71,396		MO	77%	NM	13%
MA	+2,410		MI	+54		CO	+15		PA	1,002,909		GA	18,751		KY	66,982		MI	77%	MO	12%
IL	+2,193		PA	+41		NJ	+12		NC	903,374		CH	18,381		IL	66,782		FL	77%	NJ	12%
NC	+2,112		MA	+40		IL	+11		NJ	881,882		MA	17,010		AZ	57,653		DC	77%	ID	12%
+40,148			+1,215			+380			16,350,620			315,815			1,129,447						
All states	+67,443		+1,558			+142		All states	30,079,282		546,822			2,007,777			All states	70%		67%	
Top ten	60%		78%			268%		Top ten	54%		58%			56%			Median	71%		9%	

Some states not reporting

Five most improved US states

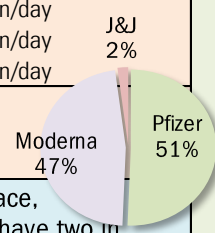
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NY	-19,093	NY	-182	TX	-64	ME	+70 bp
PA	-1,019	OK	-62	NC	-27	WY	+57 bp
TX	-797	TN	-41	WA	-24	RI	+56 bp
WI	-692	KS	-29	TN	-17	DC	+50 bp
IL	-616	TX	-29	NJ	-16	SD	+49 bp



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
181.73 million doses distributed	+4.53 million/day	United States 14.2%
139.07 million doses administered	+2.91 million/day	United Kingdom 4.1%
90.59 million persons partially immunized	+1.91 million/day	France 3.7%
49.52 million persons fully immunized	+1.09 million/day	Spain 5.1%
7.69 million shots long-term care residents/staff	+0.01 million/day	Germany 4.3%
76.5% of distributed doses administered		Italy 4.6%
27.1% of US pop partial	14.8% full immunity	Australia 0.5%
100% of LTC partial	62.9% full immunity	Israel 54.2%



At today's dosing pace,
every American will have two in
178 days
by Sep 18, 2021
US will achieve herd immunity in
67 days
by May 30, 2021

Global data differs due to sources

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

AK
75.1%
32.3%
20.6%

China NA	ME
	56.3%
	30.8%
	17.2%

WI
50.2%
28.3%
16.3%

VT	NH
60.0%	52.2%
30.2%	29.1%
16.0%	15.2%

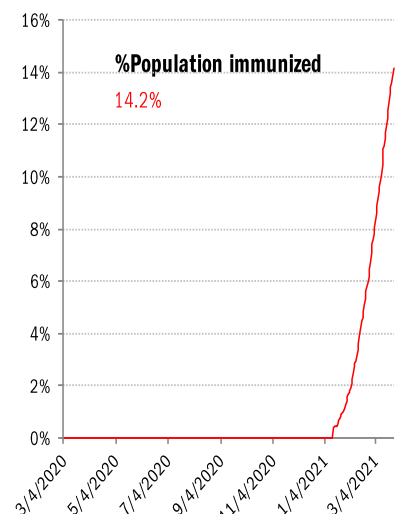
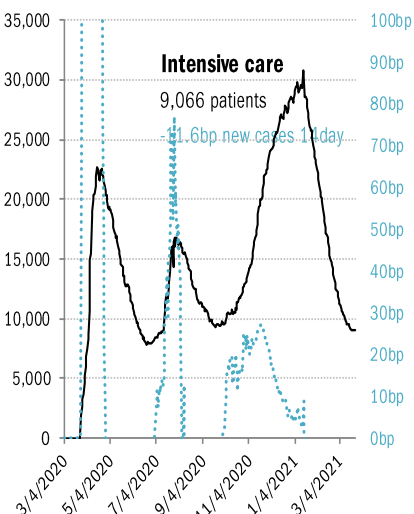
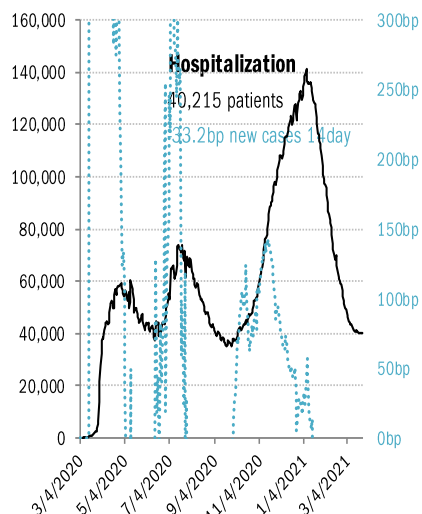
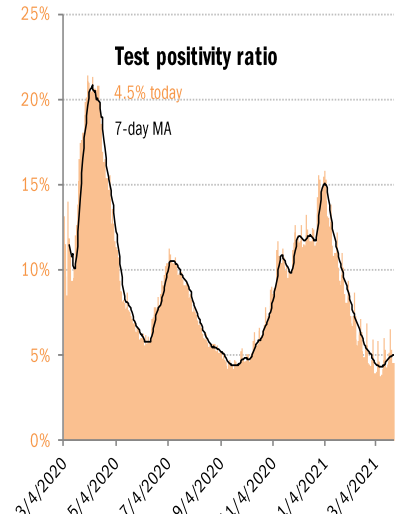
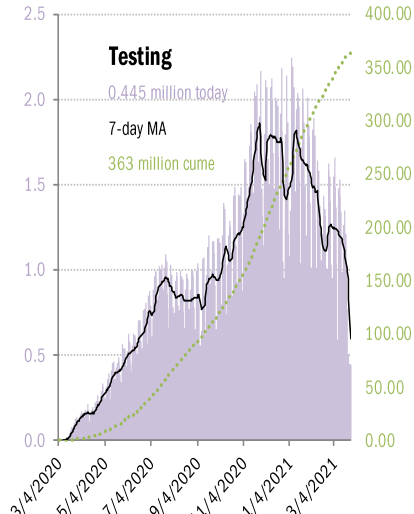
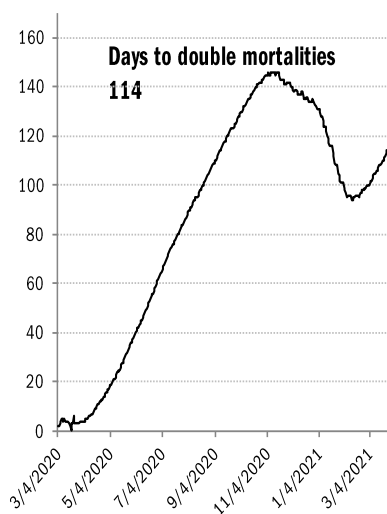
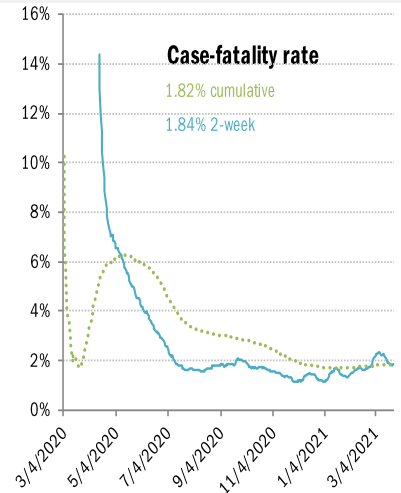
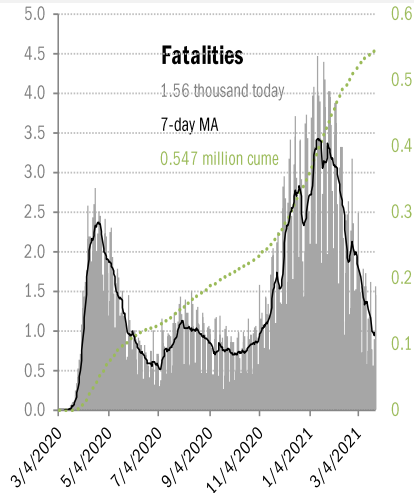
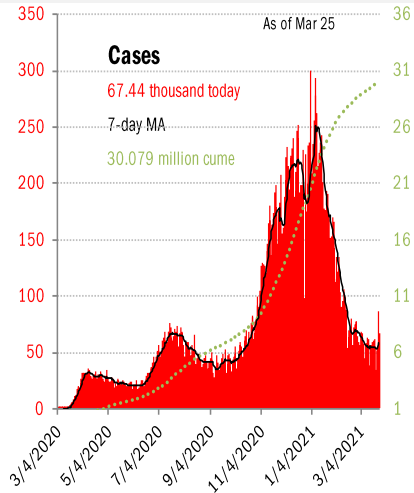
WA 52.2% 26.9% 15.3%	ID 48.3% 23.4% 14.7%	MT 56.5% 27.7% 16.5%	ND 55.6% 29.6% 17.4%	MN 50.6% 28.1% 16.0%	IL 52.9% 27.5% 14.8%	MI 51.2% 25.6% 14.6%	NY 54.5% 27.6% 13.7%	MA 54.7% 30.6% 16.5%		
OR 51.3% 25.3% 14.7%	NV 49.1% 25.2% 14.1%	WY 60.6% 25.3% 16.5%	SD 63.7% 31.6% 19.5%	IA 51.9% 27.8% 16.8%	IN 47.4% 23.1% 15.0%	OH 53.0% 25.9% 14.7%	PA 53.2% 28.1% 14.4%	NJ 52.7% 30.0% 15.8%	CT 58.8% 31.7% 17.7%	RI 55.3% 30.3% 17.6%
CA 53.0% 27.2% 13.9%	UT 46.1% 23.2% 10.3%	CO 52.2% 26.2% 15.9%	NE 53.2% 28.0% 16.0%	MO 50.4% 23.7% 12.9%	KY 50.6% 28.5% 14.8%	WV 56.2% 27.3% 16.8%	VA 50.4% 27.2% 15.0%	MD 53.9% 27.6% 14.8%	DE 54.7% 27.2% 14.2%	
	AZ 52.2% 26.7% 15.2%	NM 61.9% 34.5% 21.0%	KS 54.4% 26.8% 14.4%	AR 52.2% 23.5% 12.2%	TN 47.8% 22.4% 11.9%	NC 50.7% 26.5% 14.4%	SC 48.8% 24.6% 13.3%	DC 66.1% 22.6% 11.3%		
		OK 62.2% 28.6% 15.6%	LA 51.9% 24.0% 14.1%	MS 52.3% 22.8% 13.2%	AL 50.2% 21.4% 12.3%	GA 48.7% 20.5% 11.4%				
		TX 49.0% 22.9% 11.5%						FL 53.9% 25.2% 14.0%		PR 55.3% 19.4% 11.0%

As of Mar 25

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

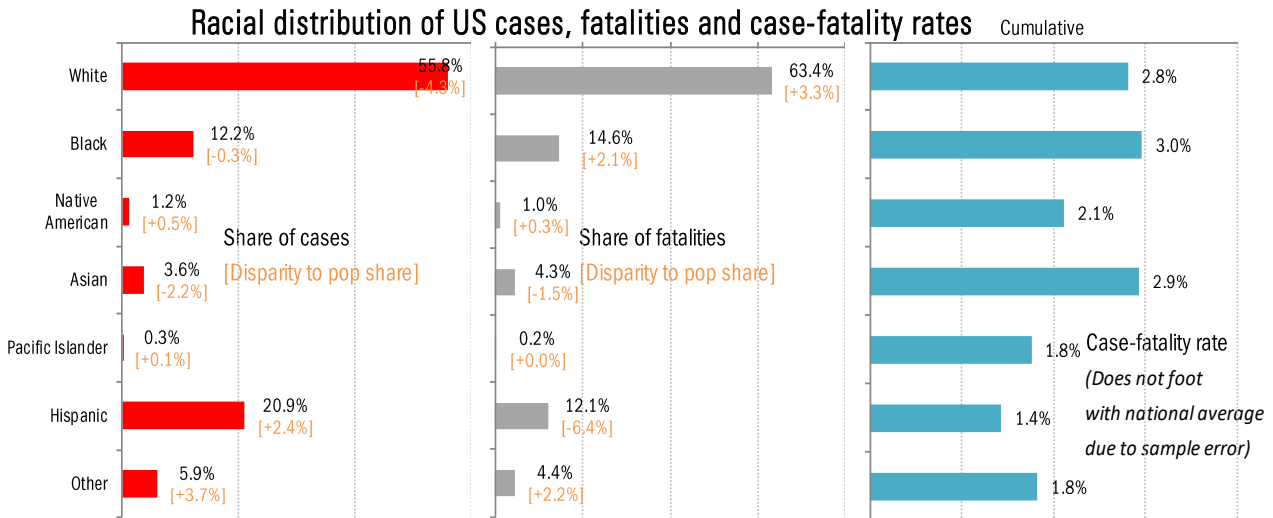
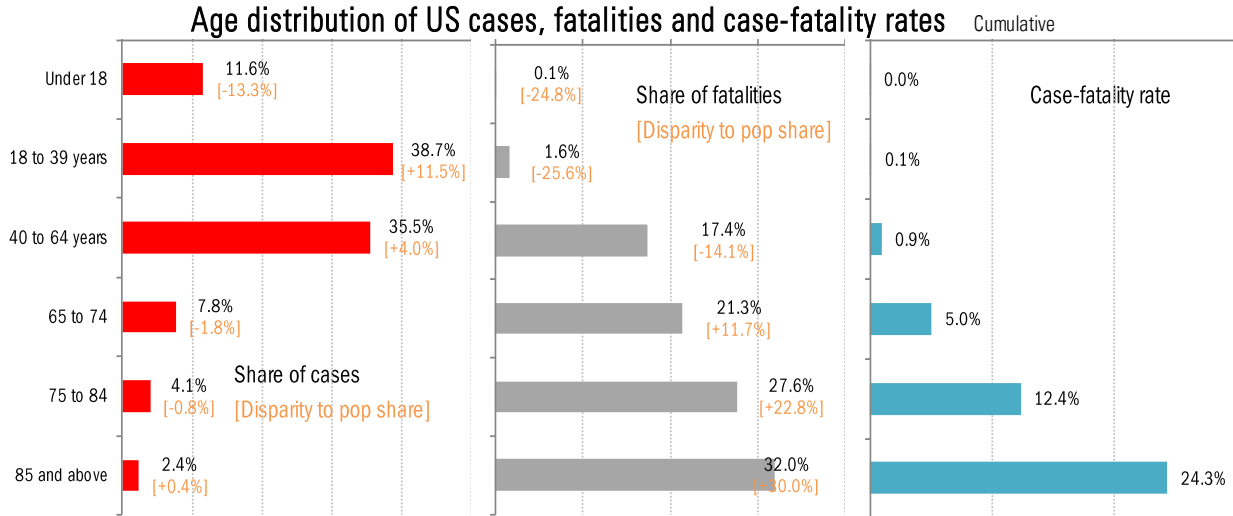
US deep-dive

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



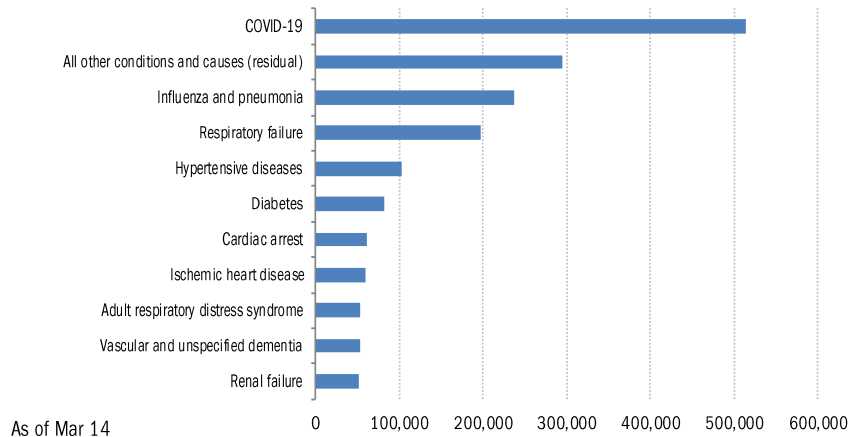
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

[Why Is All COVID-19 News Bad News?](#)

Bruce Sacerdote, Ranjan Sehgal and Molly Cook
Dartmouth
March 22, 2021

[AstraZeneca Got Its Vaccine Right. The Rollout Has Been a Mess.](#)

Jenny Strasburg, Thomas M. Burton and Joseph Walker
Wall Street Journal
March 25, 2021

[You Can Bet on the Vaccine, Literally](#)

Max Raskin
Wall Street Journal
March 25, 2021

[The Doomsday Prophecy of Dr. Geert Vanden Bossche](#)

Jonathan Jarry
McGill Office for Science and Society
March 24, 2021

[To all authorities, scientists and experts around the world, to whom this concerns: the entire world population.](#)

Geert Vanden Bossche
Geert Vanden Bossche
March 6, 2021

[CNN defends Chris Cuomo for seeking COVID-19 help from Andrew Cuomo](#)

Thomas Moore
The Hill
March 25, 2021

[Ohio lawmakers override DeWine's veto of health order bill, meaning health orders could be rescinded](#)

Nathan Hart
WCPO Cincinnati
March 24, 2021

[Top health officials told to prioritize COVID testing for Cuomo's relatives](#)

Albany Times-Union
Brendan J. Lyons
March 24, 2021

[Joe Biden's top coronavirus adviser Jeff Zients has up to \\$5 million in gold bars](#)

Nikki Schwab
Daily Mail
March 23, 2021

[While Fauci Was Giving Bad Advice To Trump, He & His Family Were Donating To Joe Biden.](#)

National Pulse
March 24, 2021

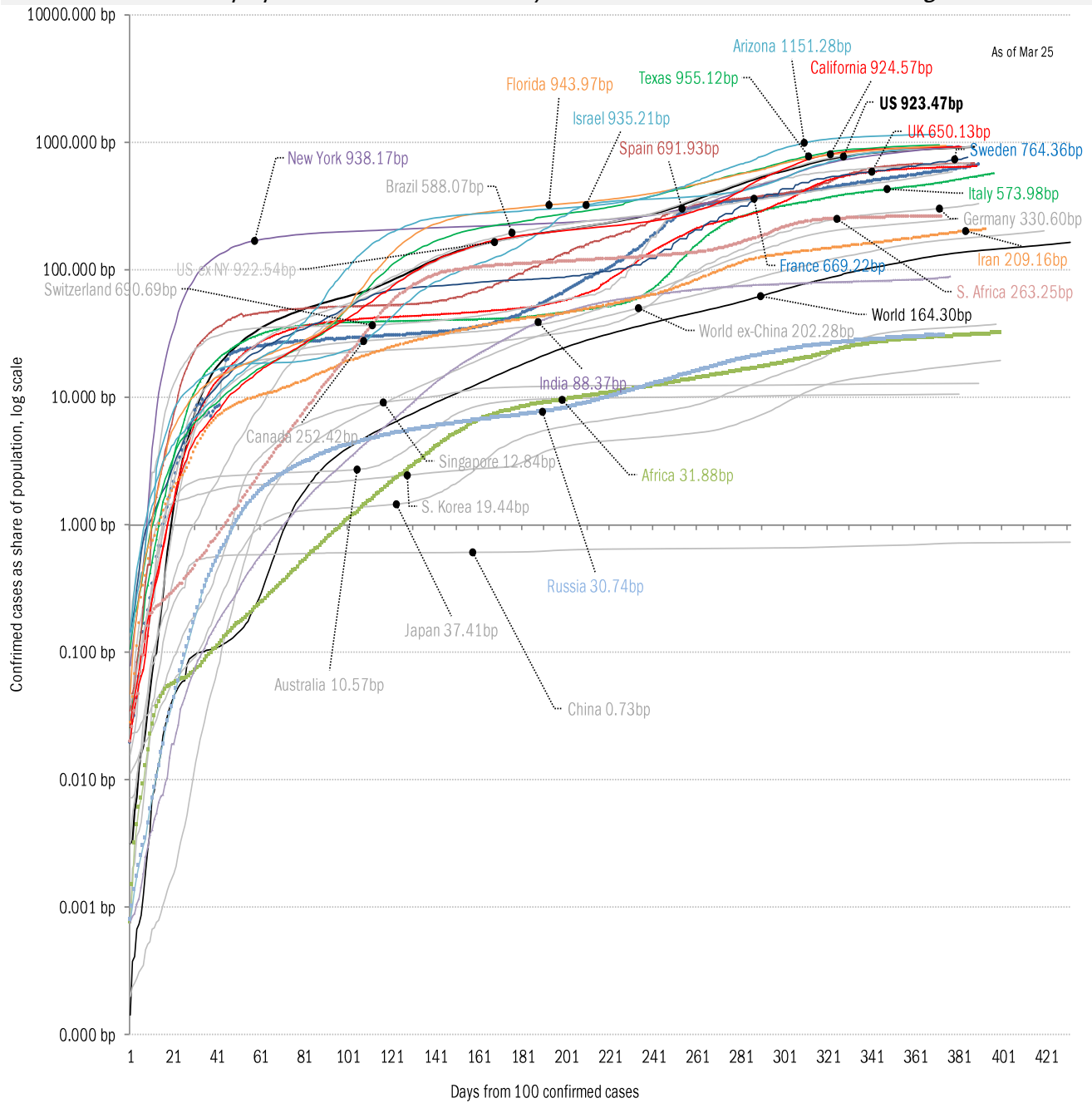
Meme of day



**Guinness World Records Carefully Monitoring
Cuomo And Whitmer For Most Seniors Killed**

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

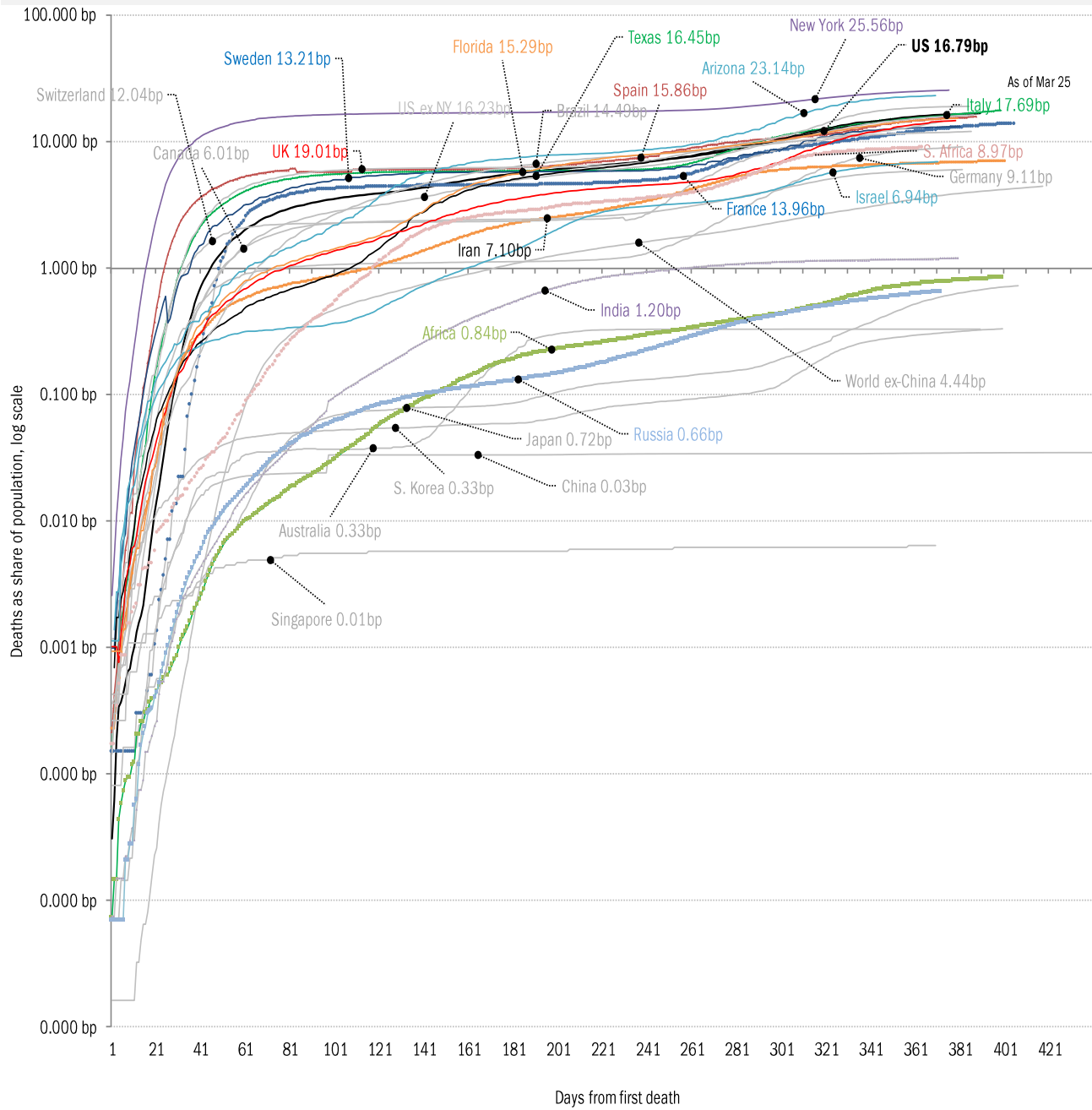
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

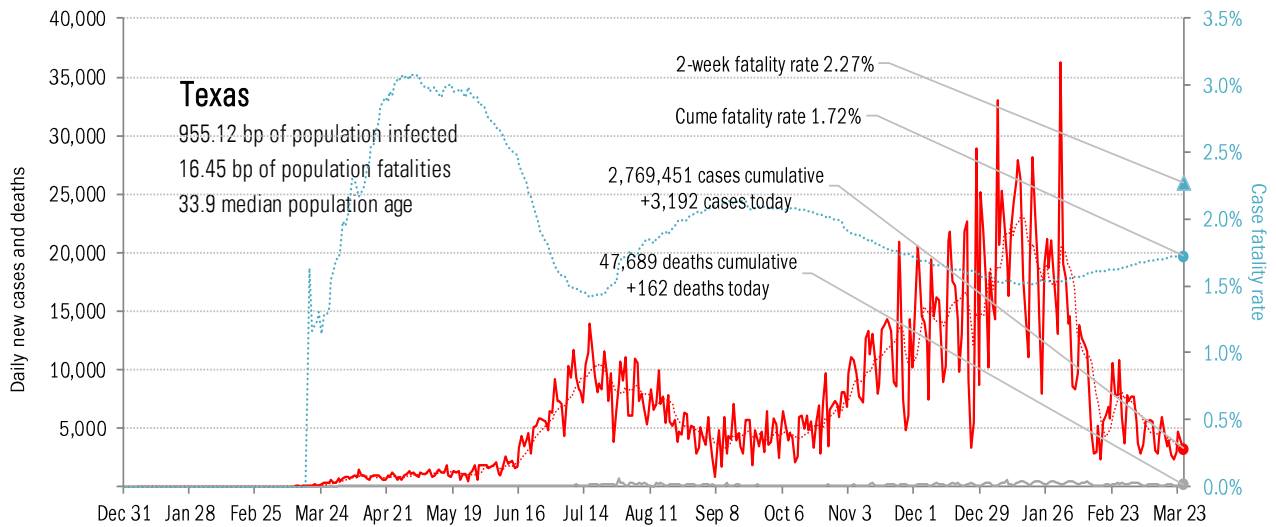
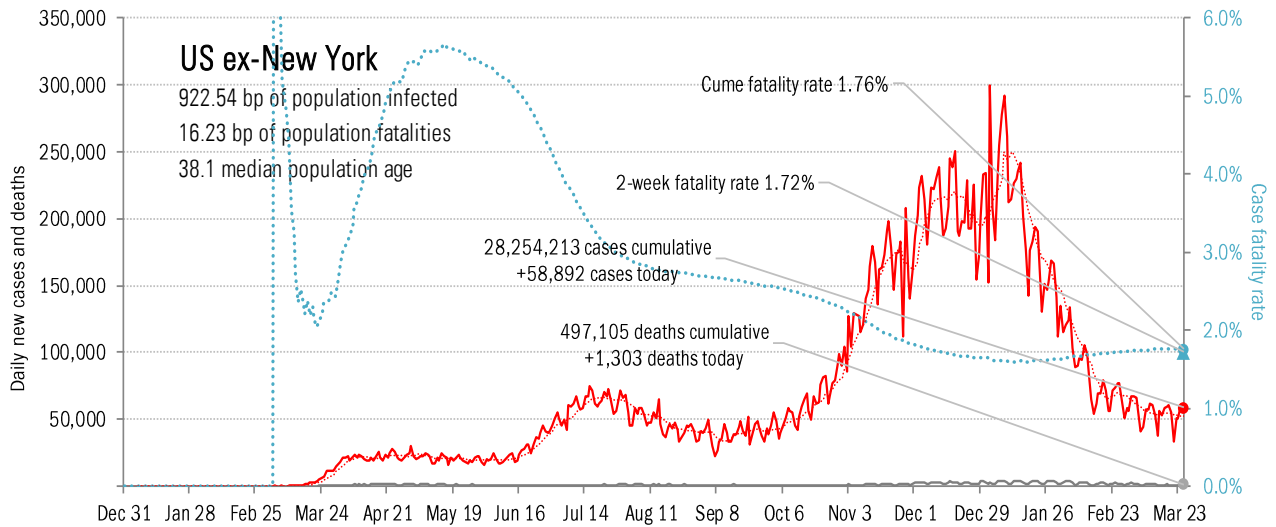
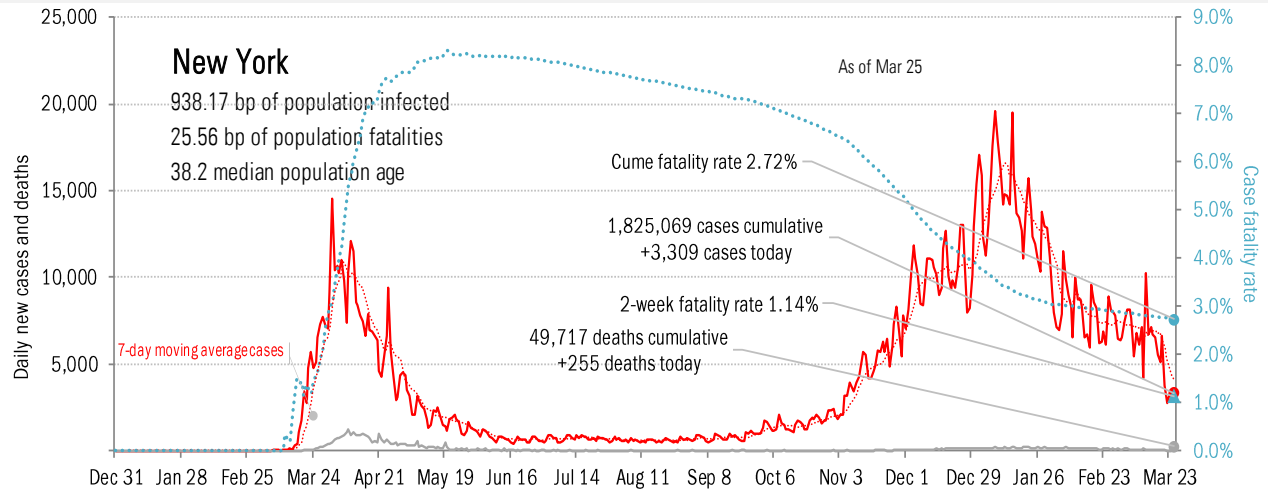
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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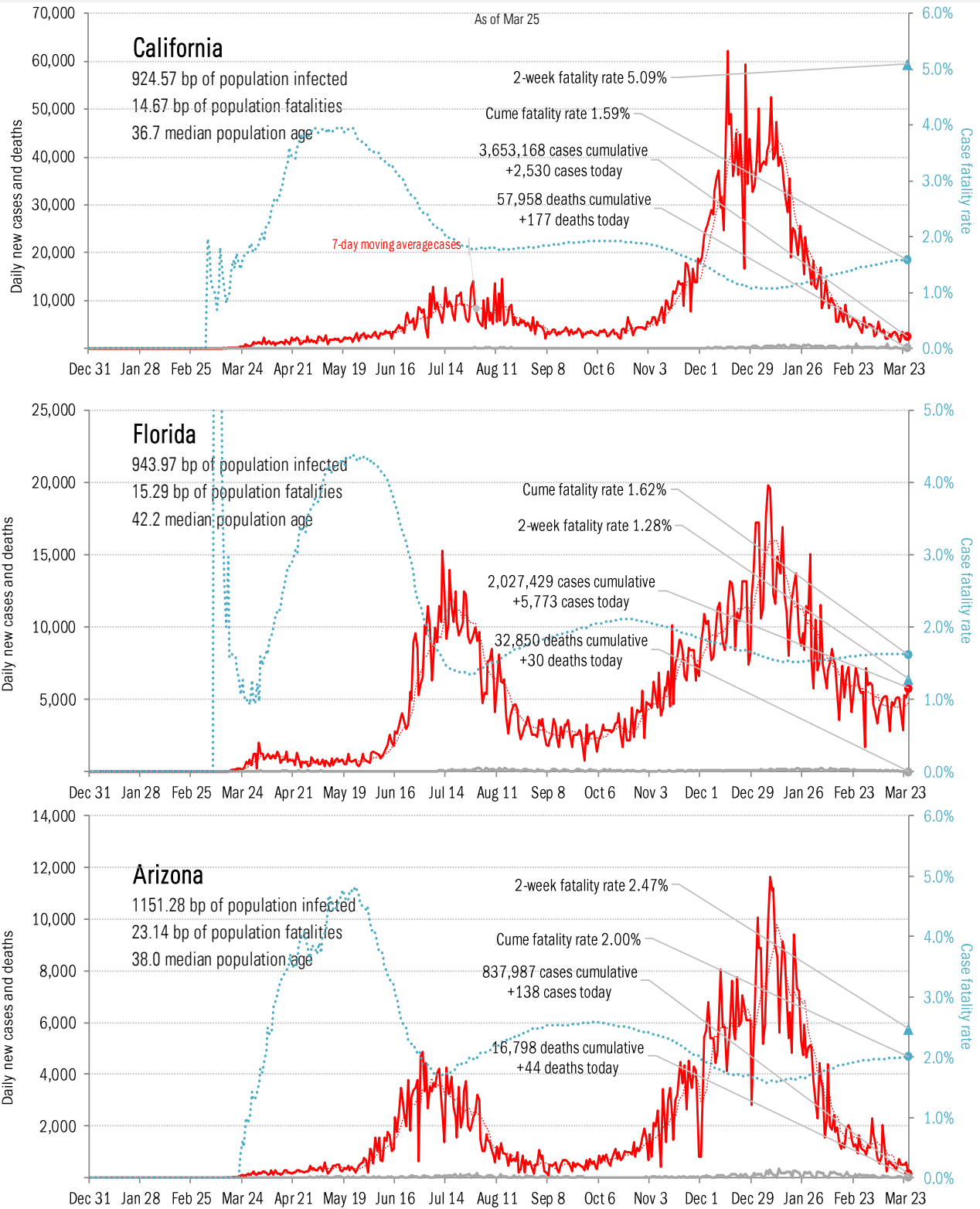
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



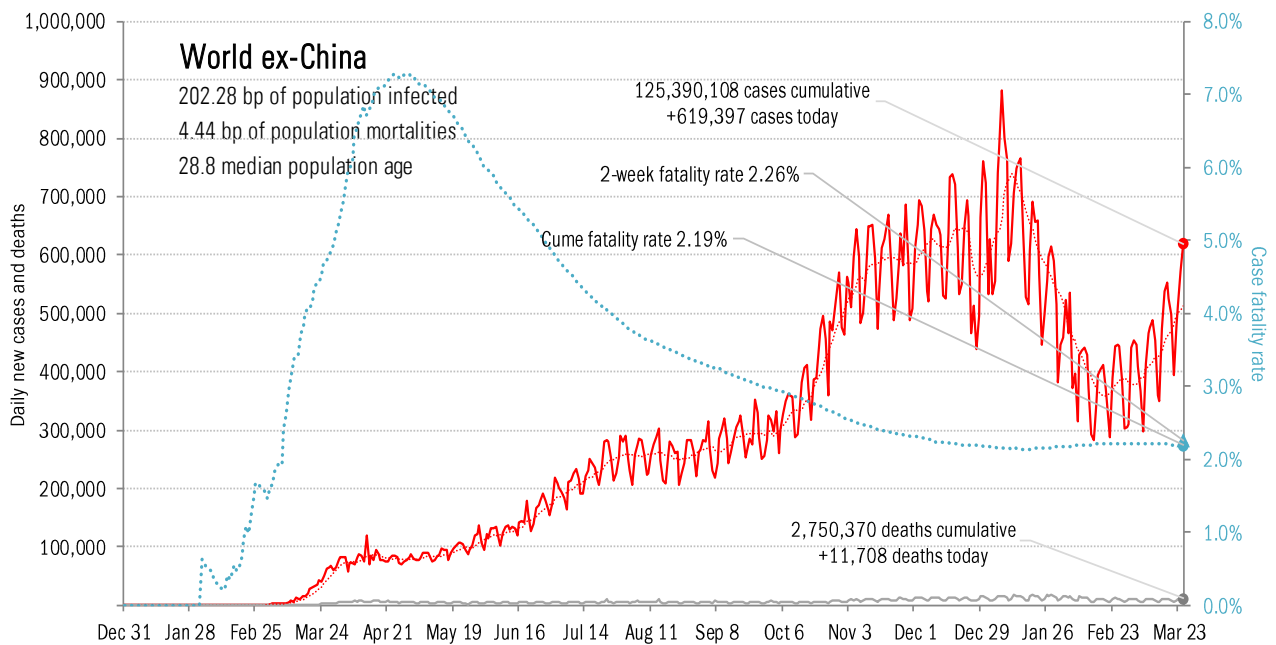
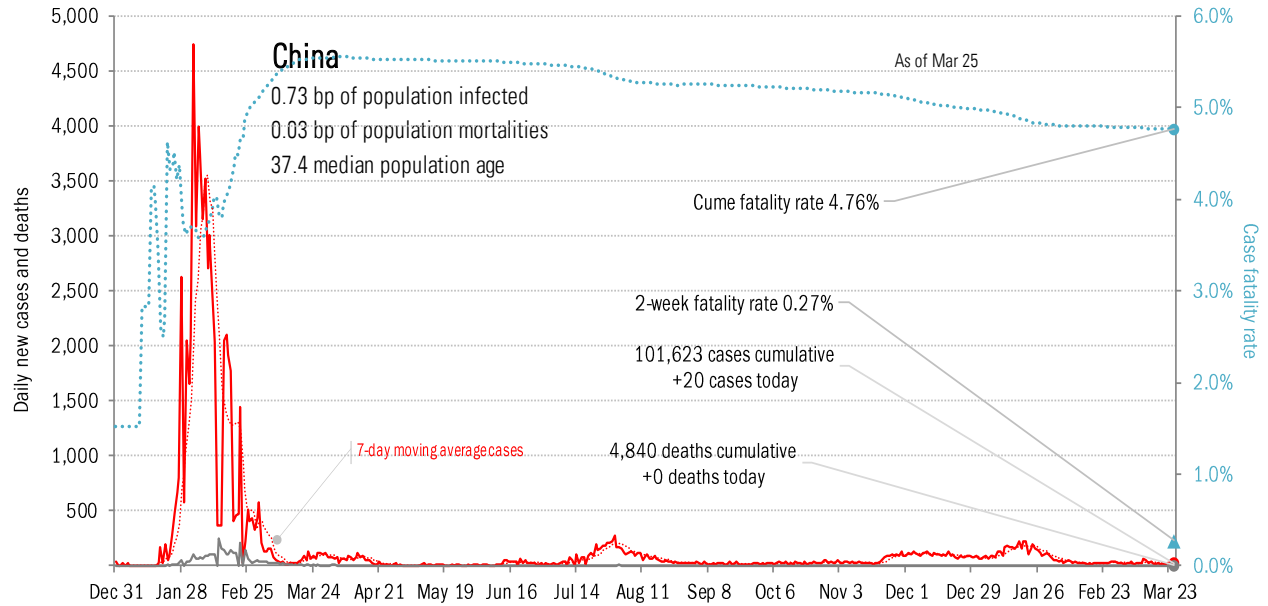
Source: [Johns Hopkins](#), TrendMacro calculations

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



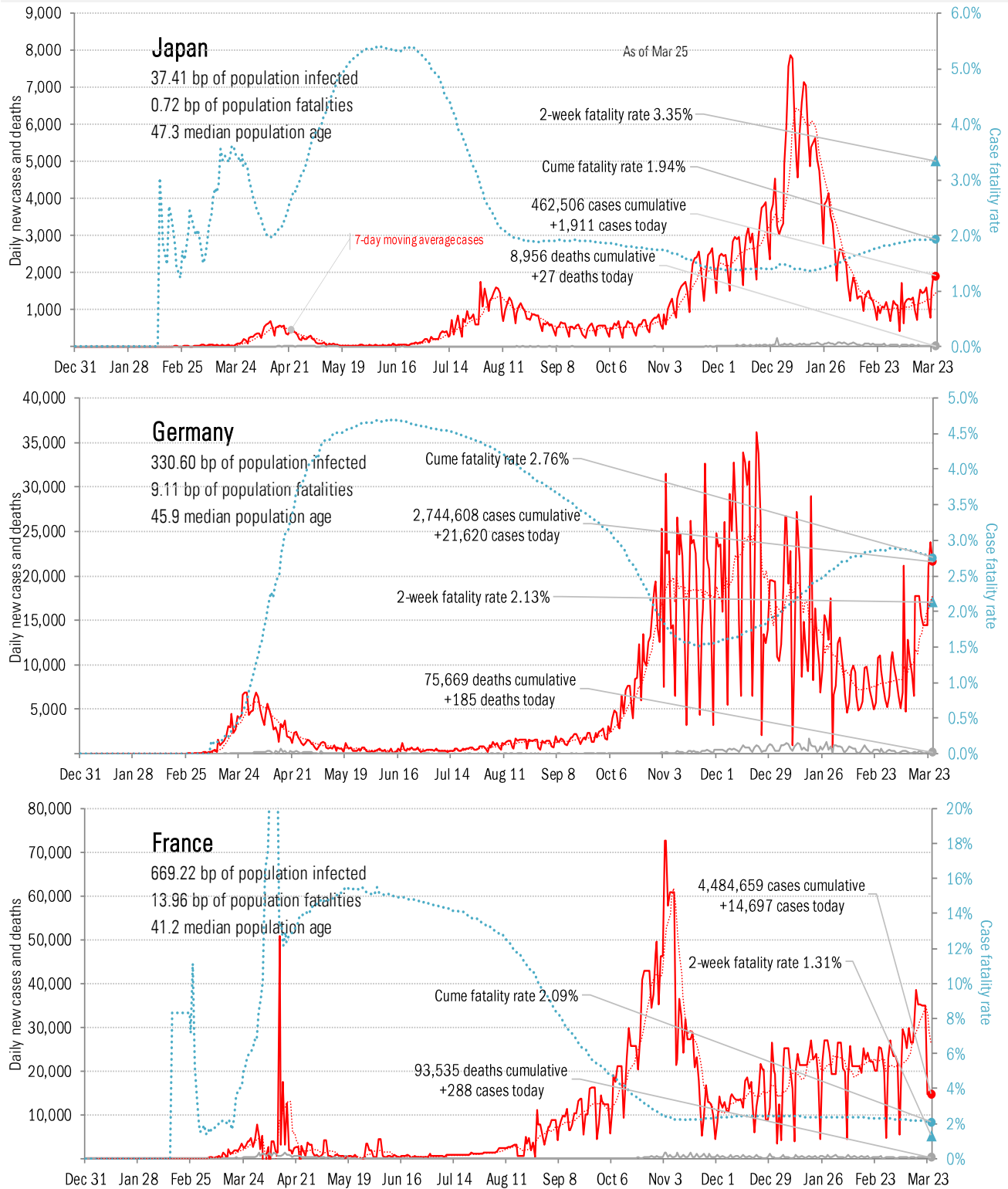
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



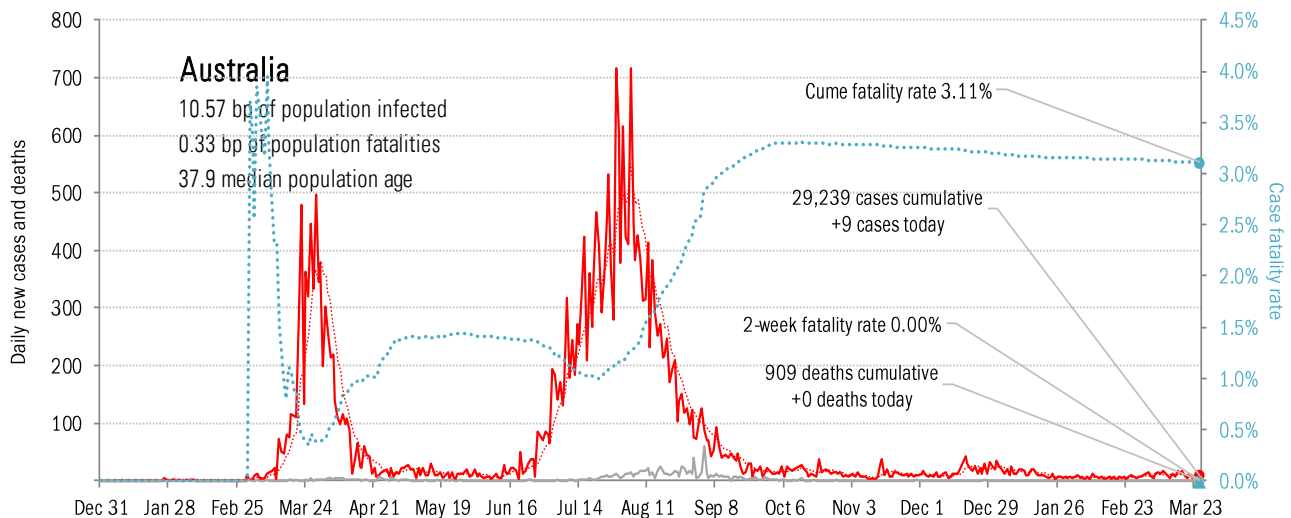
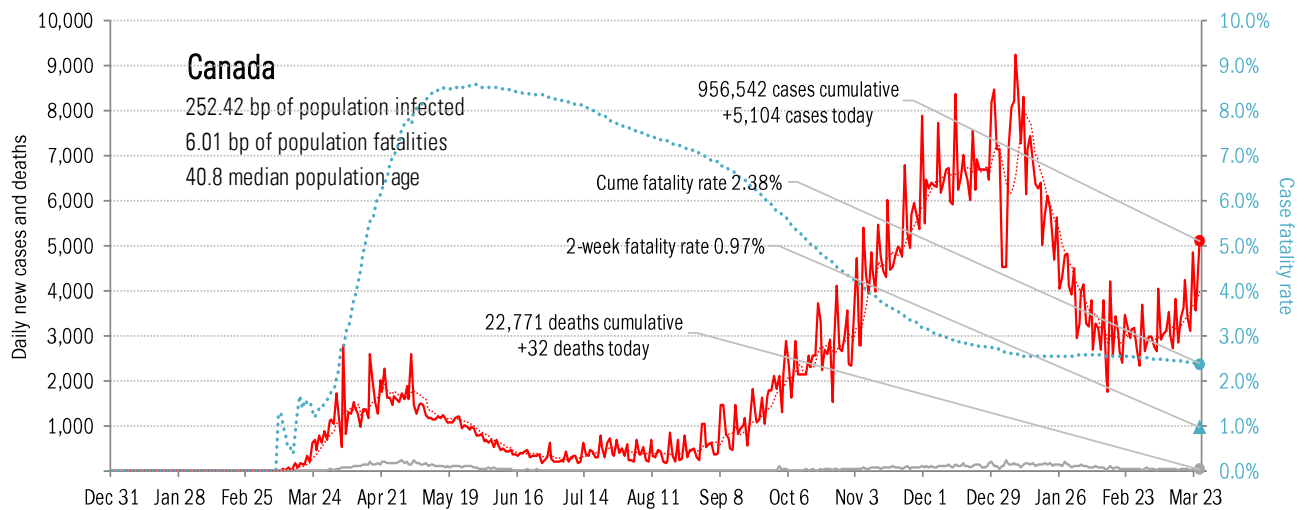
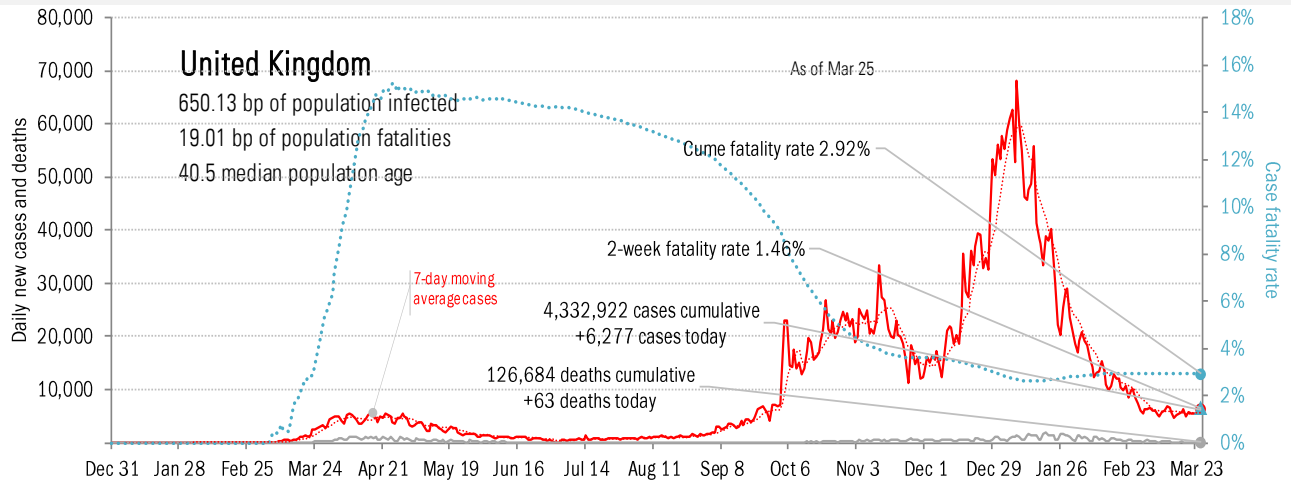
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



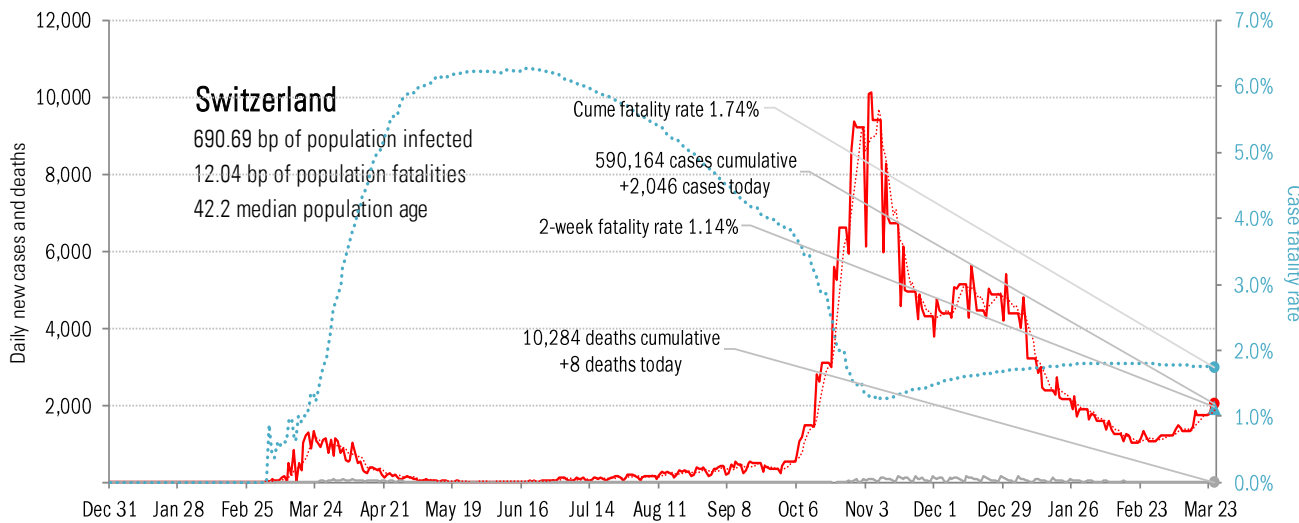
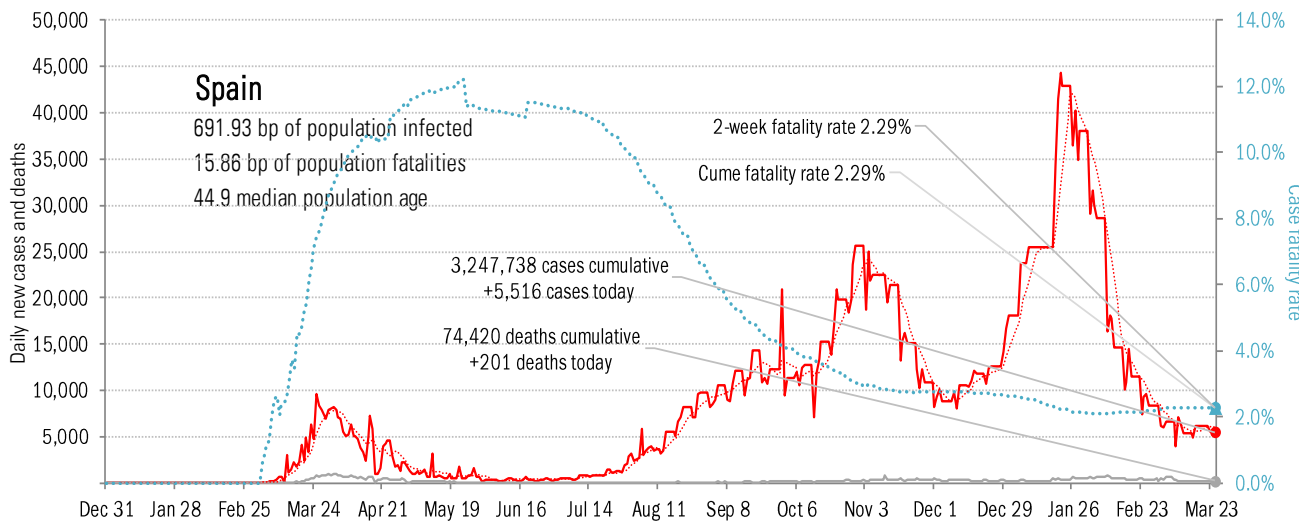
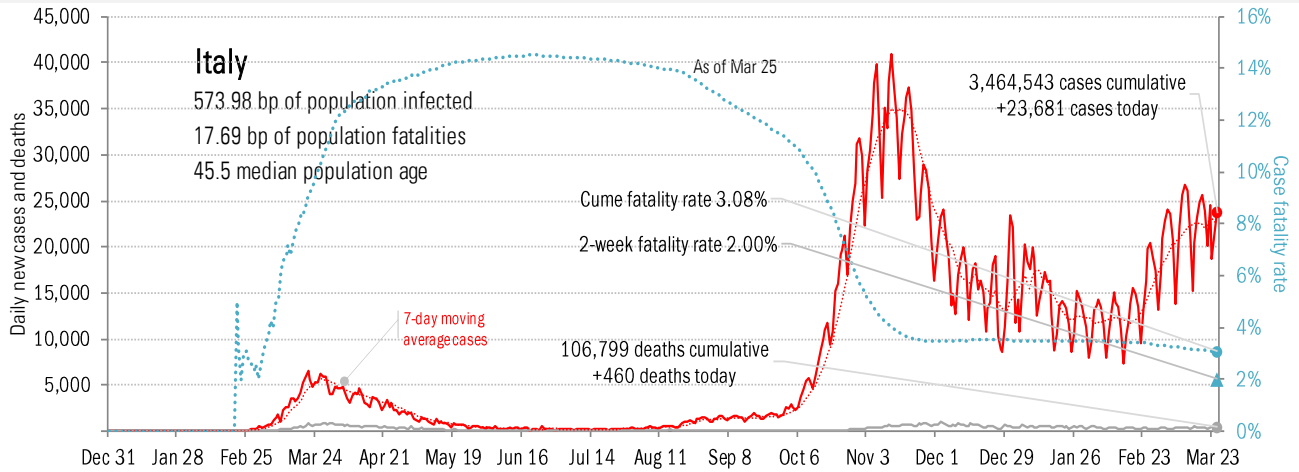
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



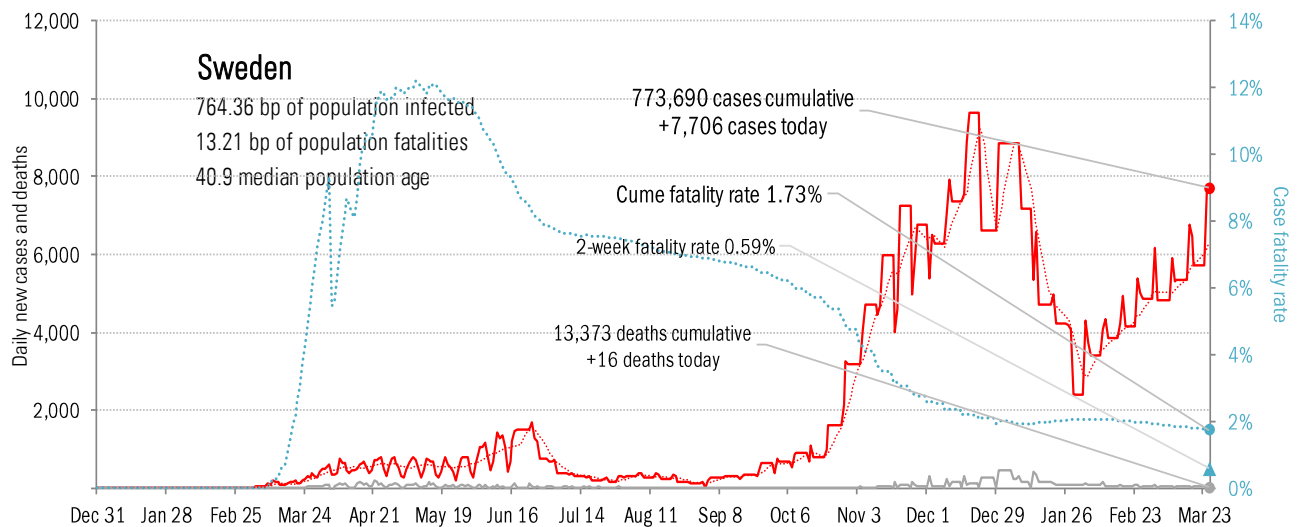
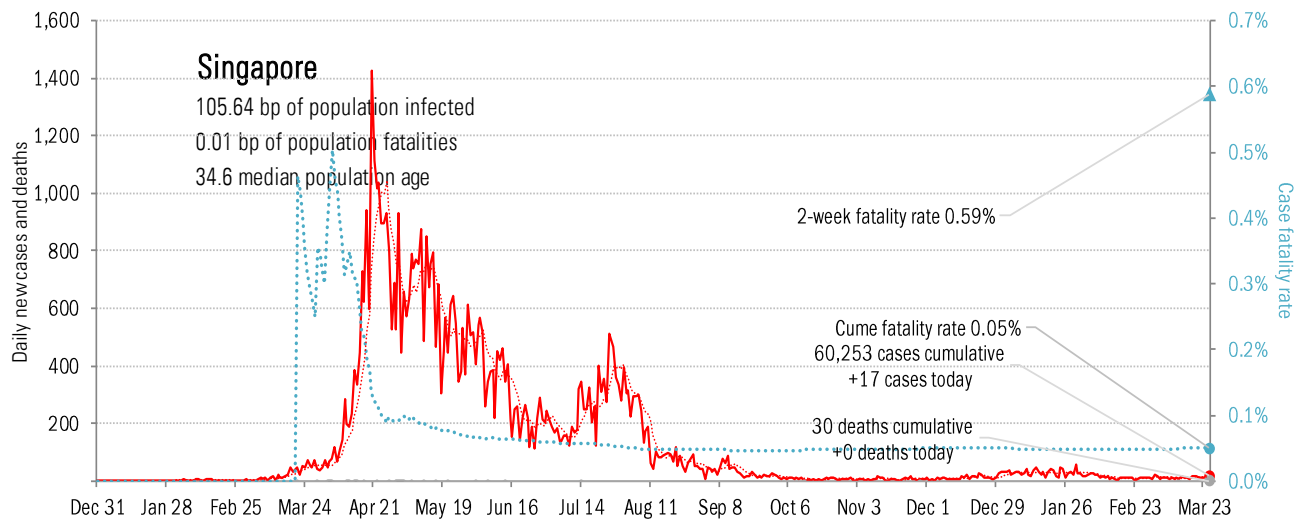
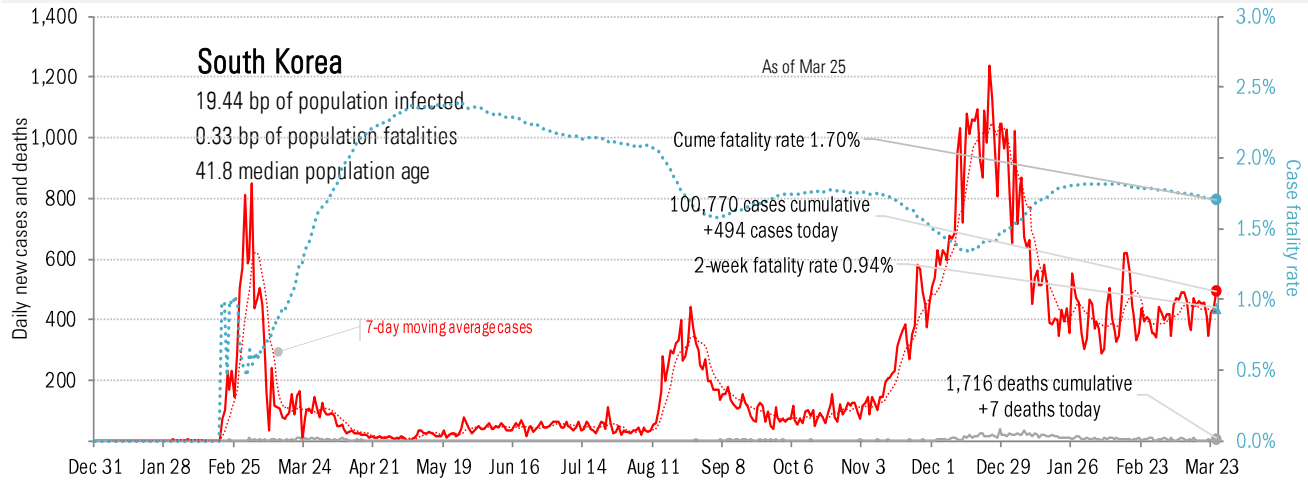
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



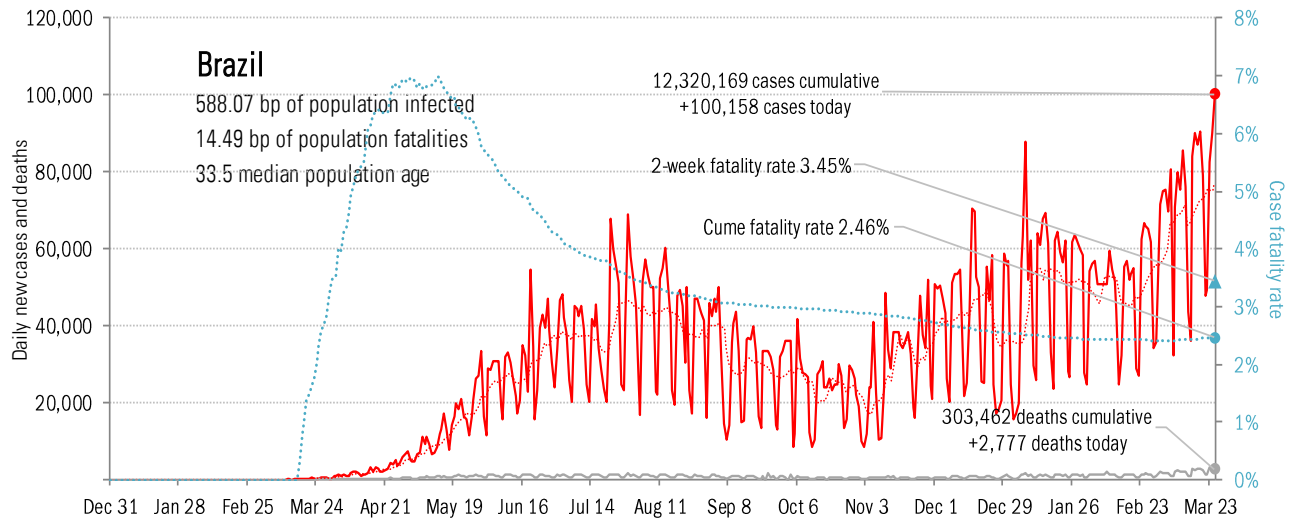
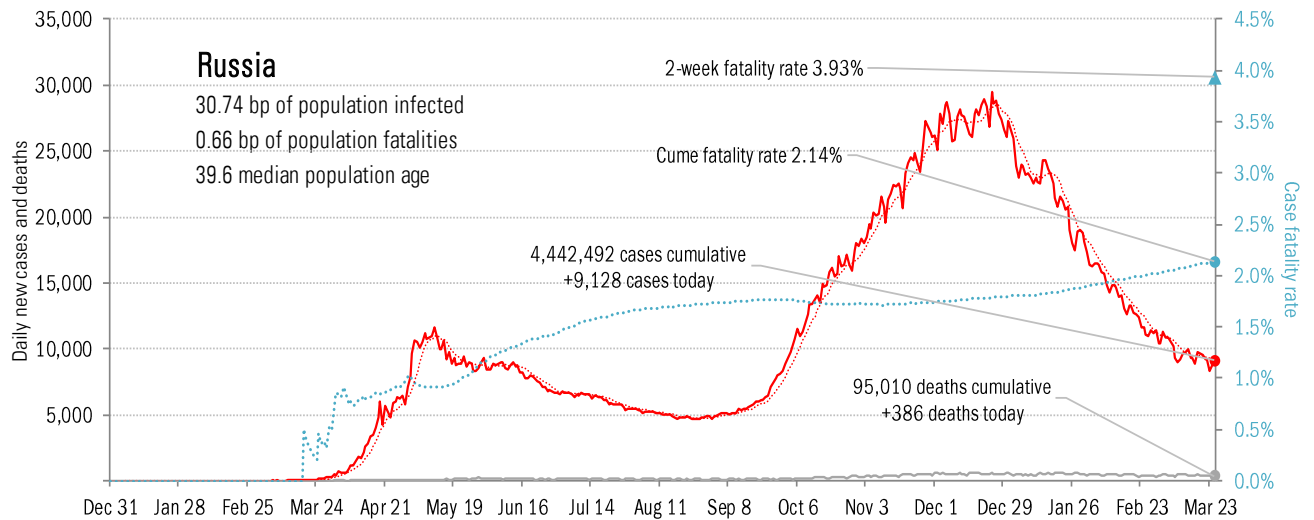
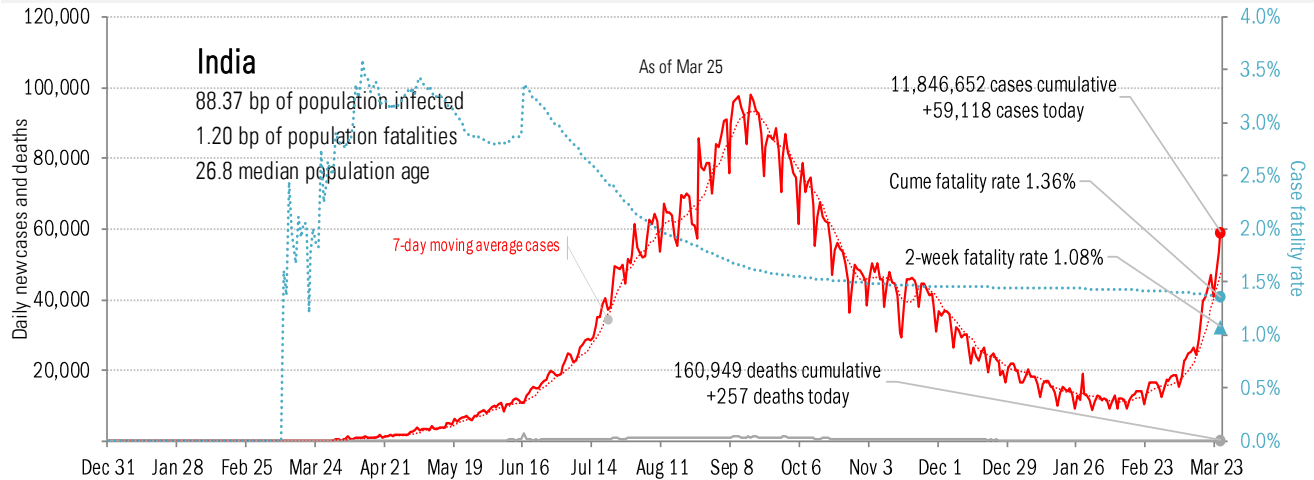
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



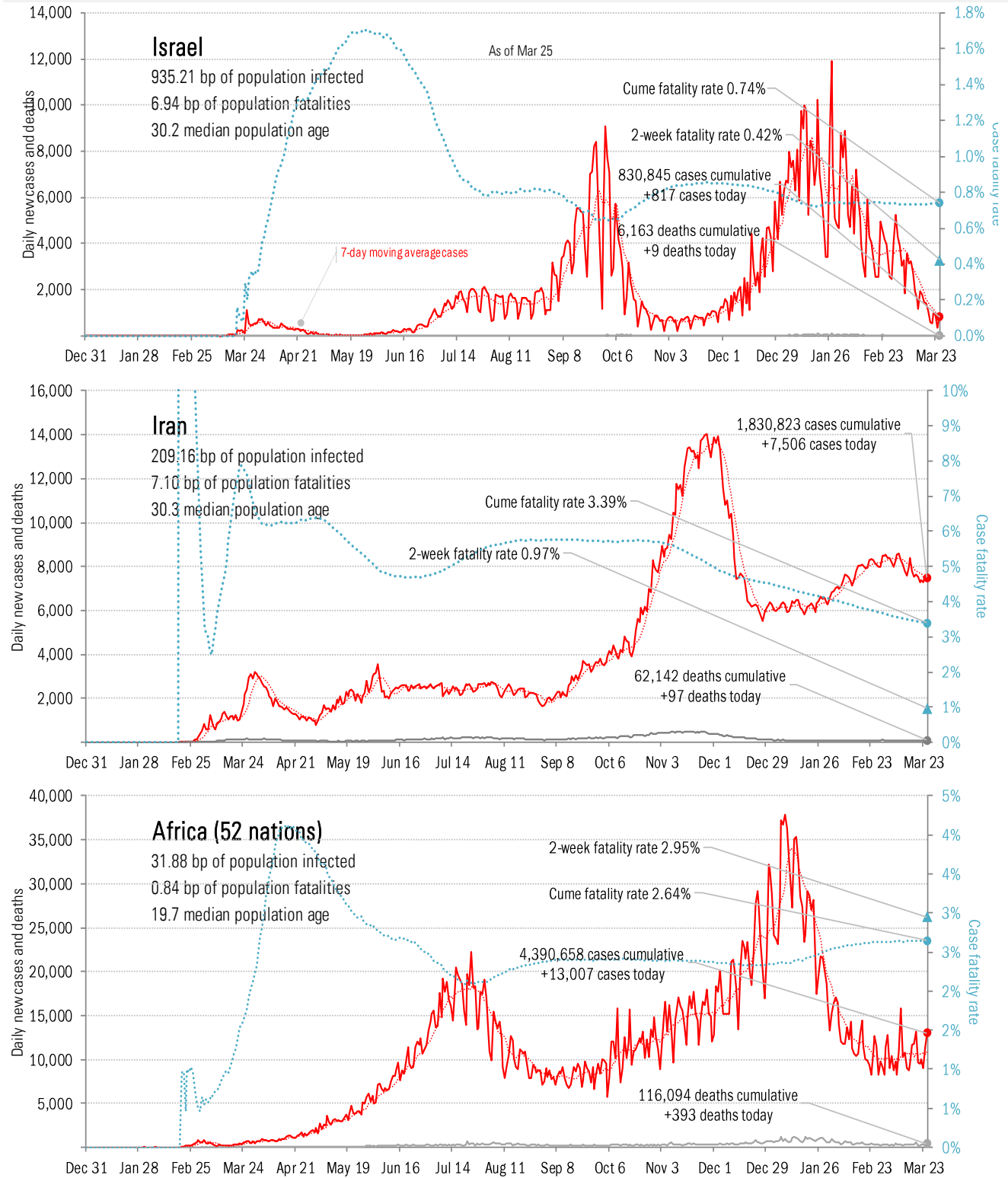
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



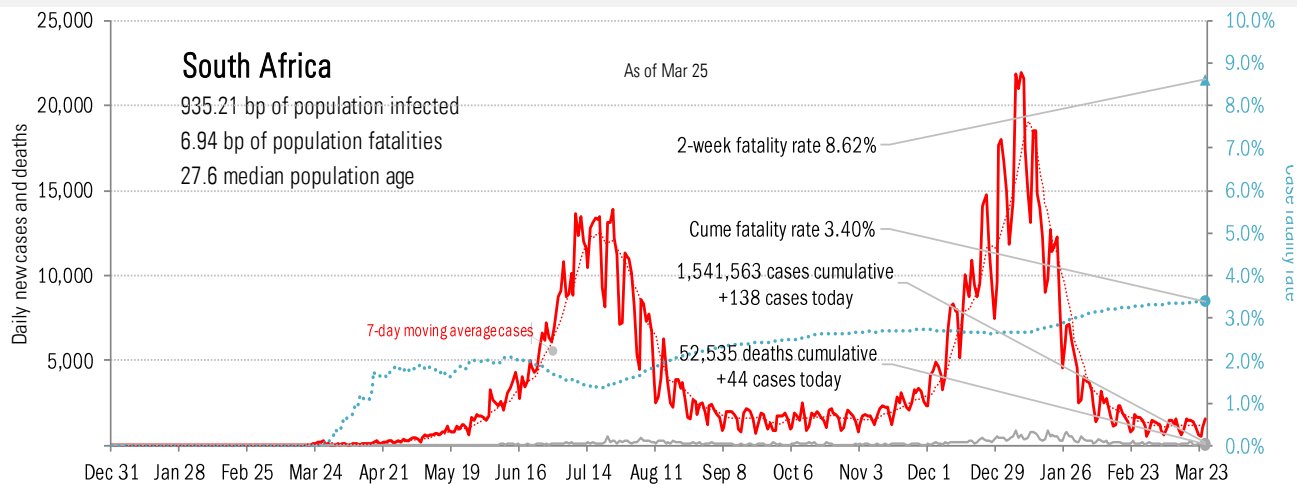
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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