

Data Insights: Covid-2019 Monitor

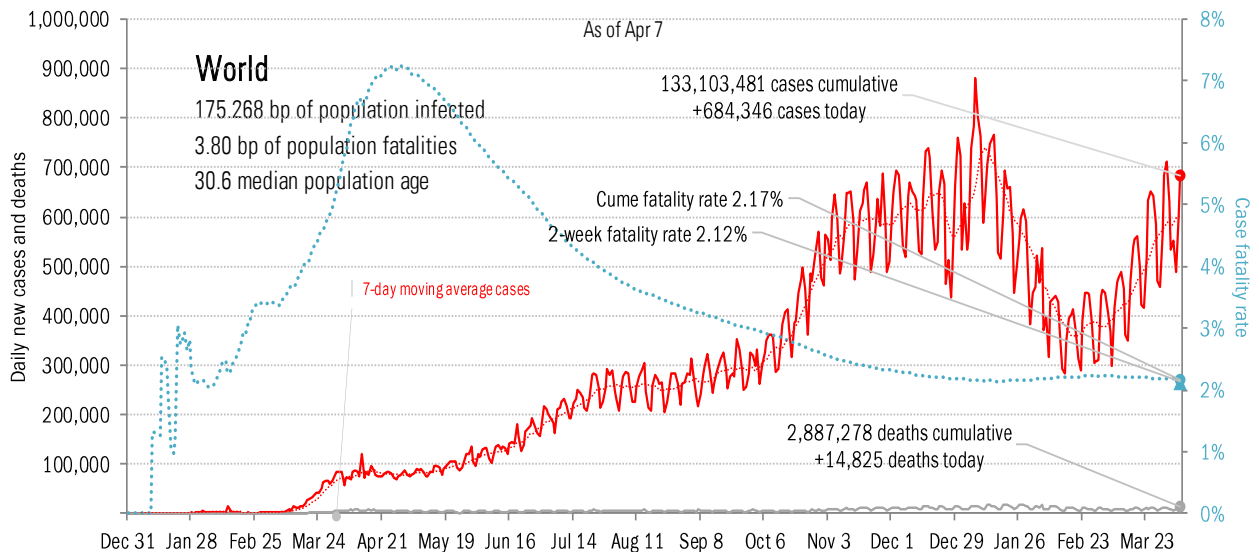
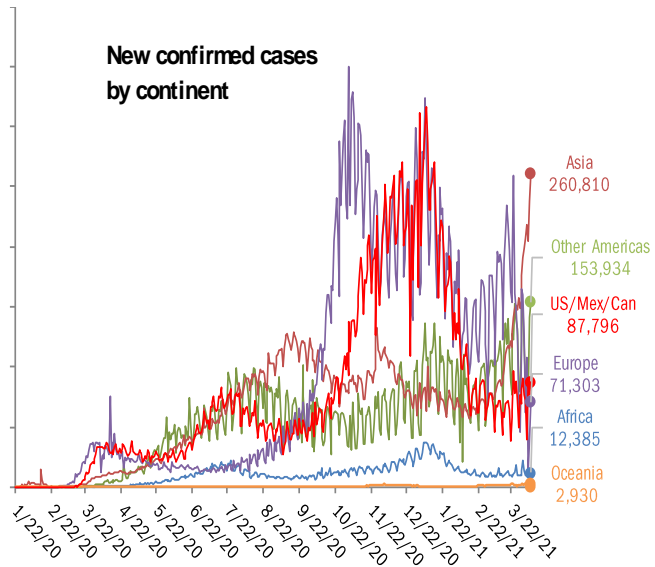
Thursday, April 8, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+126,789	Brazil	+3,829
Brazil	+92,625	United States	+2,570
United States	+75,038	India	+685
Turkey	+54,740	Poland	+638
Germany	+30,377	Italy	+627
Argentina	+22,039	Mexico	+613
Iran	+20,954	Germany	+510
Ukraine	+15,535	Ukraine	+486
Poland	+14,908	Russia	+369
Italy	+13,686	Hungary	+311
+466,691		+10,638	
World +684,346		World +14,825	
Top ten 68%		Top ten 72%	

New confirmed cases by continent



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

For more information contact us:

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

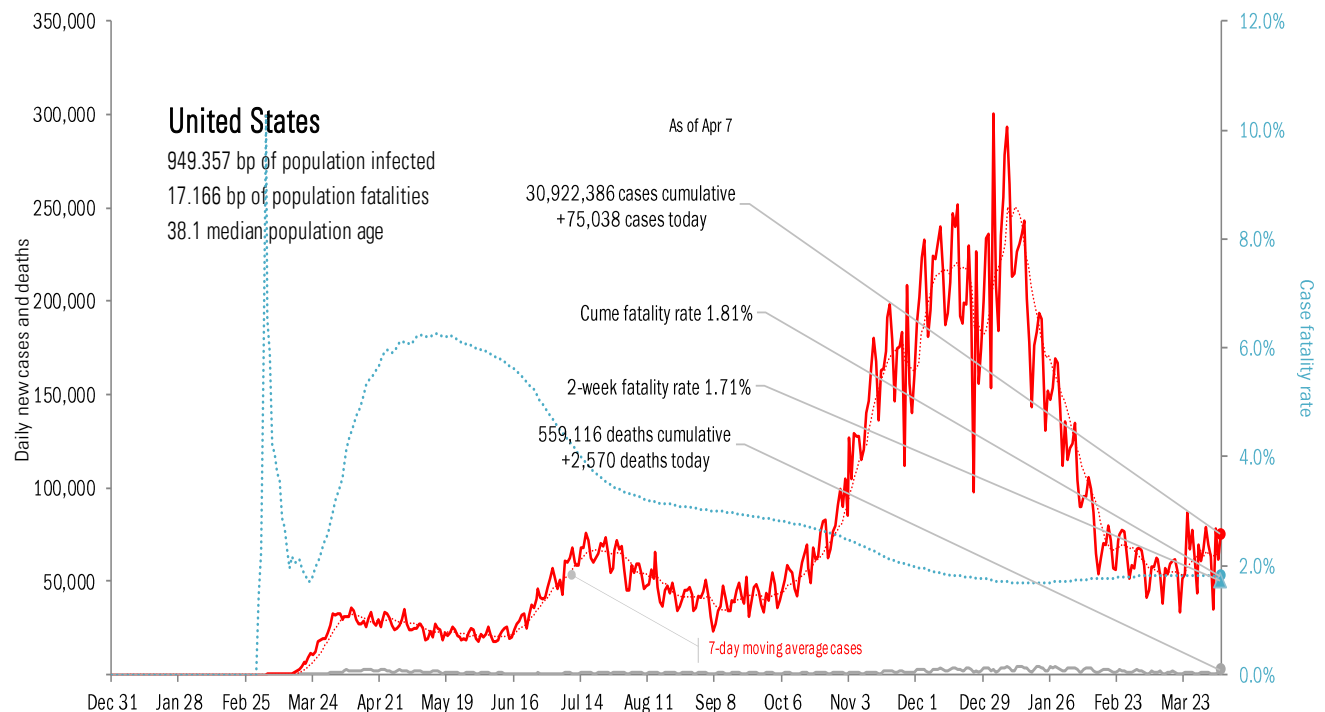
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
MI	+9,369		CK	+1,716		PR	+199		CA	3,687,493		CA	59,993		TX	227,856		RI	90%	MI	22%
NY	+6,643		CA	+106		MI	+167		TX	2,815,110		NY	50,843		CA	223,829		MD	83%	MD	21%
FL	+5,885		TX	+103		PA	+66		FL	2,096,747		TX	48,918		FL	154,044		MA	83%	NY	19%
PA	+4,676		NY	+92		IL	+50		NY	1,925,080		FL	33,822		NY	117,289		CT	79%	PA	14%
NJ	+4,243		GA	+67		IN	+29		IL	1,265,351		PA	25,269		GA	95,447		PA	79%	MN	13%
TX	+3,840		PA	+52		MN	+24		GA	1,068,199		NJ	24,749		CH	76,322		MI	78%	WV	13%
IL	+3,774		NJ	+49		FL	+20		PA	1,057,126		IL	23,702		PA	75,283		MO	78%	TX	13%
MA	+2,550		FL	+42		SC	+20		CH	1,030,864		GA	19,305		IL	69,309		FL	78%	DC	13%
CA	+2,448		MI	+30		NC	+19		NJ	937,979		CH	18,741		KY	68,680		WV	77%	ID	13%
CH	+2,064		IL	+29		WA	+19		NC	924,810		MI	17,373		AZ	58,624		GA	76%	NJ	13%
+45,492			+2,286			+613			16,808,759			322,715			1,166,683						
All states	+75,038		+2,570			+447			All states	30,922,386		559,116			2,077,072			All states	70%		67%
Top ten	61%		89%			137%			Top ten	54%		58%			56%			Median	70%		9%

Some states not reporting

Five most improved US states

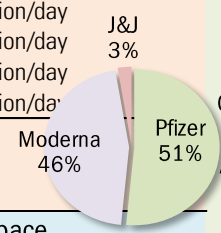
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MN	-1,016	MI	-31	NY	-162	NY	+72 bp
TX	-522	TN	-29	CH	-133	GA	+69 bp
SC	-506	FL	-28	NJ	-73	NH	+68 bp
IA	-456	VA	-27	VA	-53	NJ	+67 bp
WI	-213	OR	-26	GA	-39	MD	+59 bp



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	Immunity	Full	Partial
235.32 million doses distributed	+6.34 million/day	US	19.3%	32.9%
178.30 million doses administered	+2.96 million/day	UK	8.4%	46.7%
113.68 million persons partially immunized	+1.72 million/day	France	4.7%	14.0%
67.03 million persons fully immunized	+1.45 million/day	Spain	6.3%	13.7%
7.75 million shots long-term care residents/staff	+0.00 million/day	Germany	5.5%	12.9%
75.8% of distributed doses administered		Italy	6.0%	13.4%
34.0% of US pop partial	20.1% full immunity	Australia	0.7%	0.6%
100% of LTC partial	#VALUE!	Israel	56.5%	61.2%
		Canada	2.0%	16.5%
		Japan	0.3%	0.8%
		Africa	0.3%	0.6%
		India	0.8%	5.7%
		Brazil	2.5%	8.9%



At today's dosing pace,
every American >18 immune in
89 days
by Jul 4, 2021

US achieves adult herd immunity* in
38 days
by May 15, 2021

Global data differs from sources, timing

State	Doses distributed as % population	Partial immunity as % population	Full immunity as % population
AK	93.5%	35.6%	24.9%
ME	72.3%	39.3%	24.3%
WI	66.4%	35.7%	21.6%
VT	77.2%	67.9%	43.6%
NH	67.9%	38.2%	20.8%
WA	67.9%	33.6%	21.2%
ID	61.3%	28.6%	18.8%
MT	73.0%	33.7%	22.1%
ND	68.6%	34.8%	23.5%
MN	65.2%	35.4%	22.3%
IL	68.6%	35.1%	18.9%
MI	68.3%	32.0%	19.9%
NY	70.1%	35.5%	22.1%
MA	72.6%	39.2%	22.3%
OR	67.2%	32.0%	19.6%
NV	63.6%	30.4%	18.5%
WY	74.4%	29.2%	20.7%
SD	78.9%	38.3%	25.3%
IA	66.5%	34.2%	22.0%
IN	61.6%	28.1%	18.9%
OH	67.9%	32.8%	19.5%
PA	69.6%	35.4%	19.2%
NJ	67.5%	38.0%	22.6%
CT	78.9%	39.7%	24.2%
RI	71.2%	37.1%	25.3%
CA	69.3%	35.1%	18.8%
UT	58.2%	29.4%	14.2%
CO	66.6%	34.4%	20.1%
NE	68.4%	34.3%	21.6%
MO	65.9%	29.0%	17.9%
KY	66.5%	34.0%	20.7%
WV	72.9%	32.1%	21.6%
VA	66.8%	35.7%	20.3%
MD	68.7%	35.3%	20.8%
DE	70.6%	35.4%	18.9%
AZ	67.5%	32.7%	19.5%
NM	77.2%	41.4%	26.4%
KS	70.4%	34.8%	19.8%
AR	67.1%	29.2%	16.7%
TN	64.1%	27.8%	16.0%
NC	66.5%	31.6%	18.6%
SC	64.2%	29.7%	17.2%
DC	82.0%	31.3%	16.2%
OK	76.4%	33.8%	21.1%
LA	67.1%	28.1%	18.7%
MS	65.8%	26.3%	17.3%
AL	64.2%	26.3%	15.2%
GA	63.9%	27.6%	14.1%
HI	77.4%	34.6%	22.0%
TX	63.8%	29.3%	16.9%
FL	70.0%	31.2%	18.5%
PR	68.5%	24.5%	14.3%

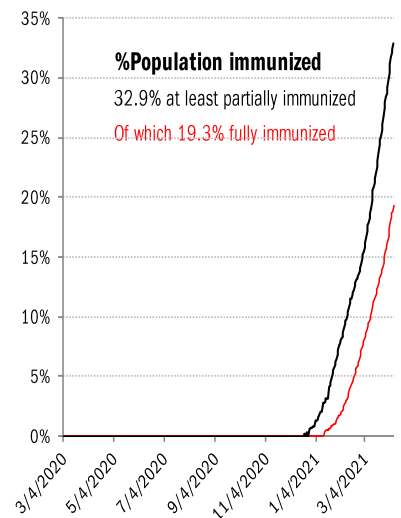
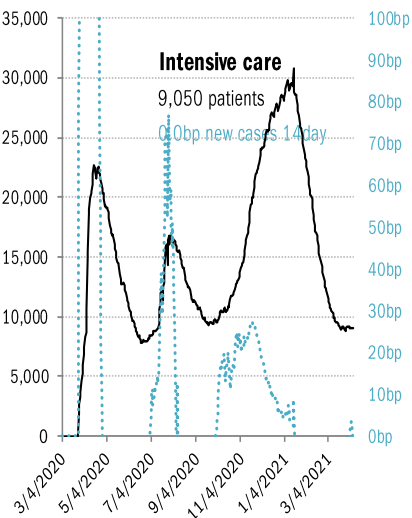
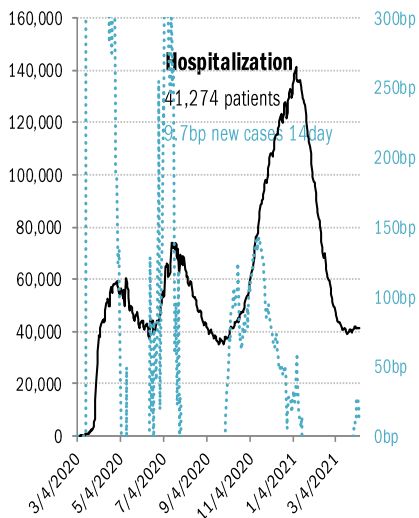
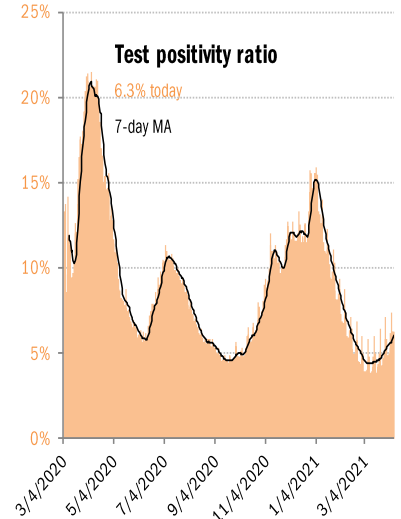
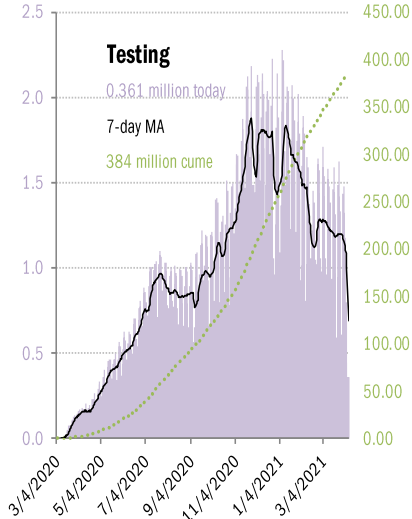
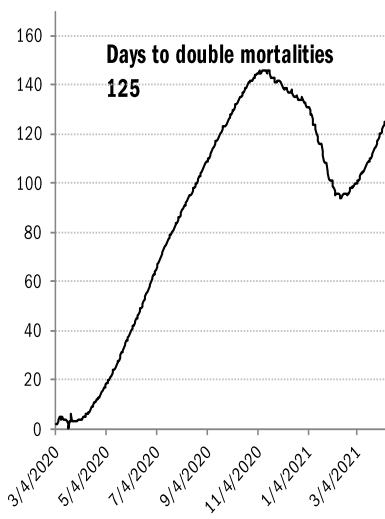
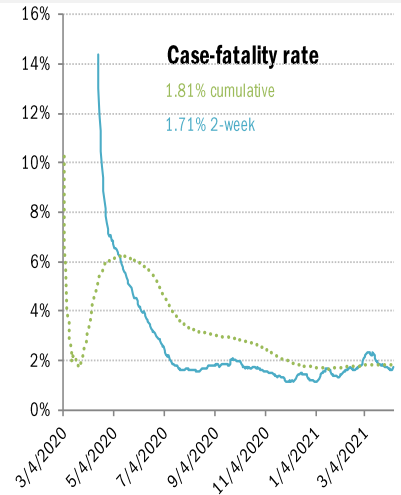
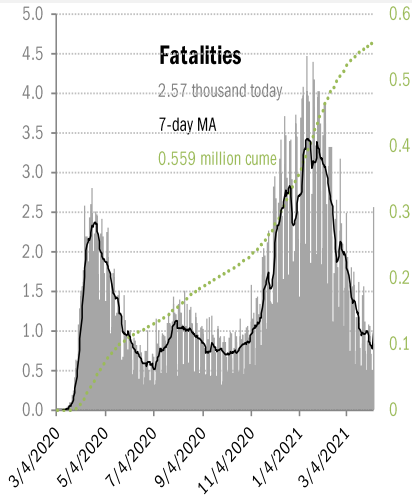
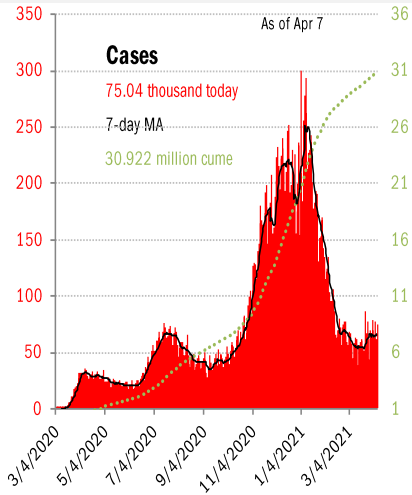
As of Apr 7

* Adult herd immunity is 60% of population over 18 years either fully vaccinated or prior tested positive, no overlap

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

US deep-dive

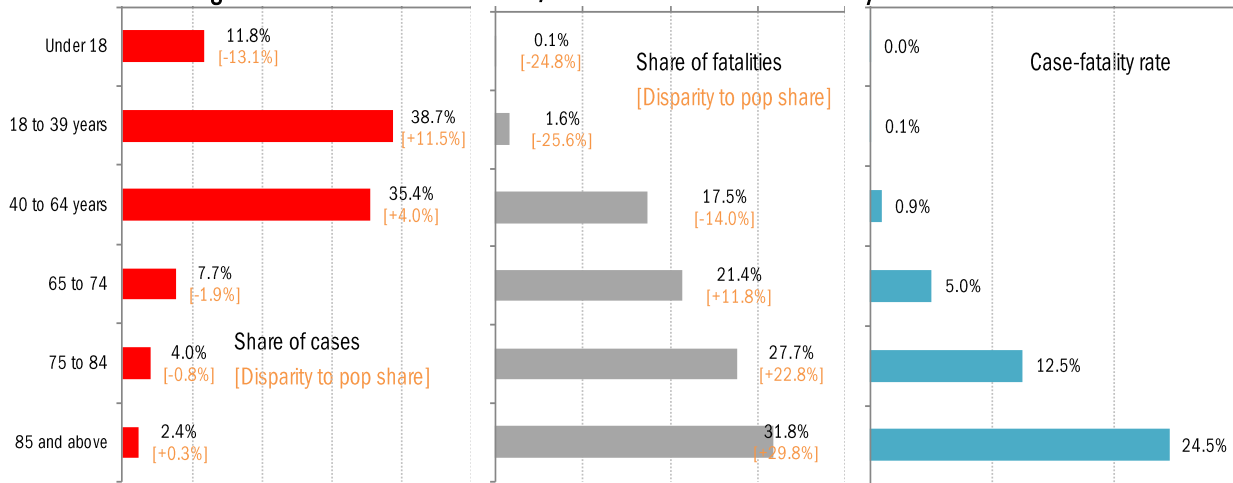
National and state-by-state data do not line up because of different sources



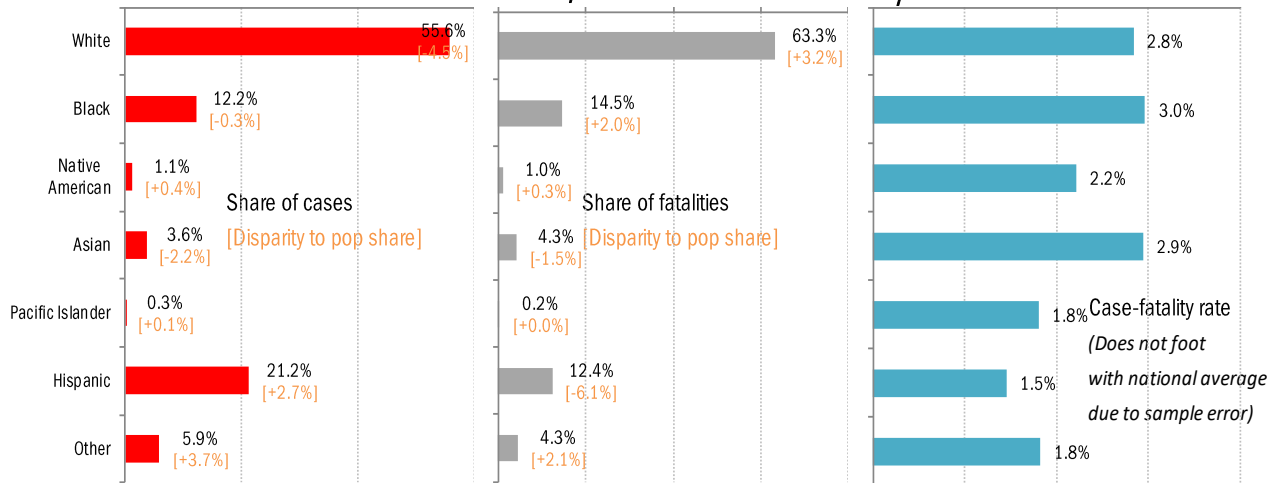
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

Age distribution of US cases, fatalities and case-fatality rates

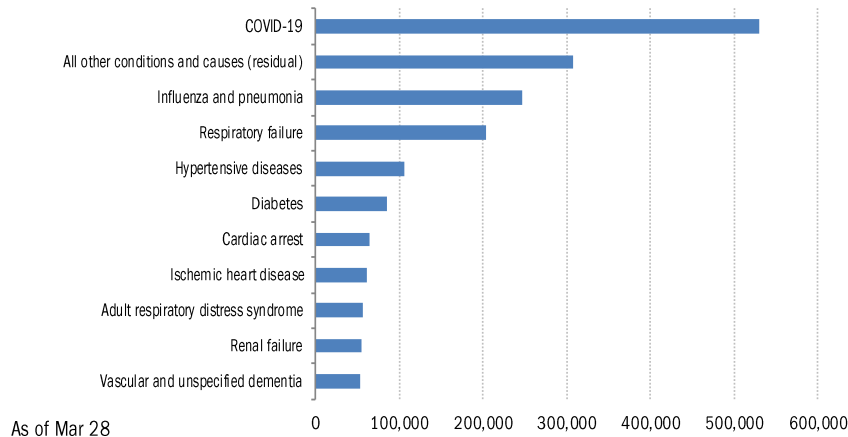


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



For 6% of these deaths, COVID-19 was the only cause mentioned on the death certificate. For deaths with conditions or causes in addition to COVID-19, on average, there were 4.0 additional conditions or causes per death.

Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

Recommended reading

[Britain set to achieve herd immunity on Monday, UCL modelling shows](#)

Clea Skopeliti
Independent
April 8, 2021

[Americans' Worry About Catching COVID-19 Drops to Record Low](#)

RJ Reinhart
Gallup
April 6, 2021

[After Pandemic, Shrinking Need for Office Space Could Crush Landlords](#)

Peter Eavis and Matthew Haag
New York Times
April 8, 2021

[Made in America Tax Plan Report](#)

US Treasury
April 7, 2021

[An Update on How Households Are Using Stimulus Checks](#)

Olivier Armantier, Leo Goldman, Gizem Koşar, and Wilbert van der Klaauw
Federal Reserve Bank of New York
April 7, 2021

[A Better Corporate Tax for America](#)

Janet Yellen
Wall Street Journal
April 7, 2021

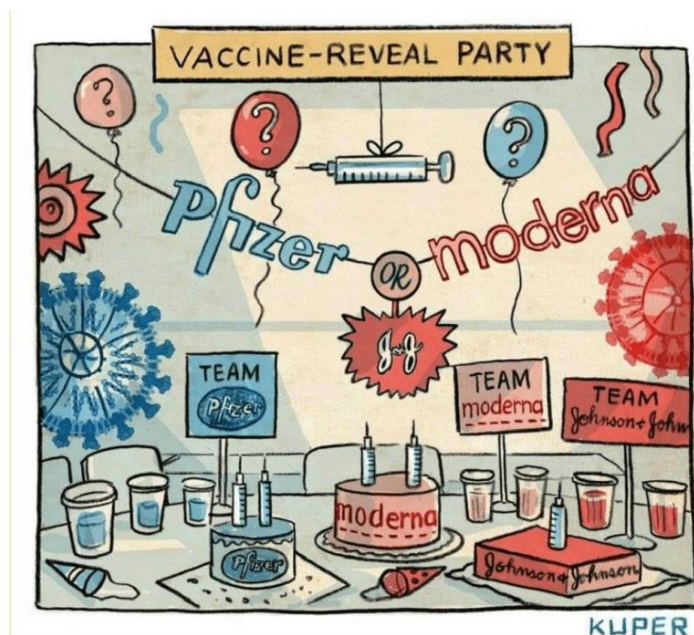
[Vaccine Passports Prolong Lockdowns](#)

Martin Kulldorff and Jay Bhattacharya
Wall Street Journal
April 6, 2021

[Who Pays What First? Debt Prioritization during the COVID Pandemic](#)

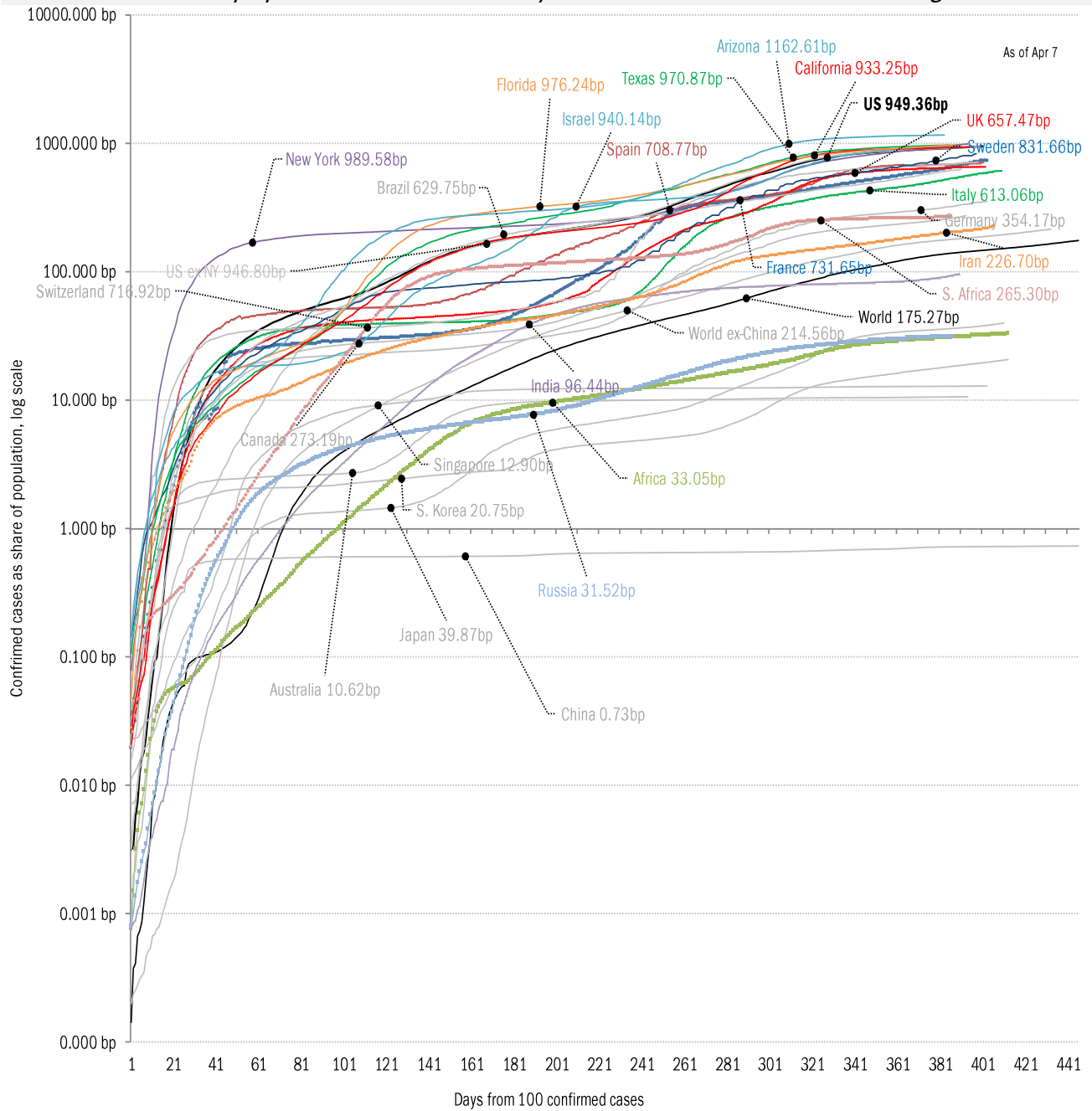
William J. Arnesen, Jacob Conway, and Matthew Plosser
Federal Reserve Bank of New York
March 31, 2021

Meme of day



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

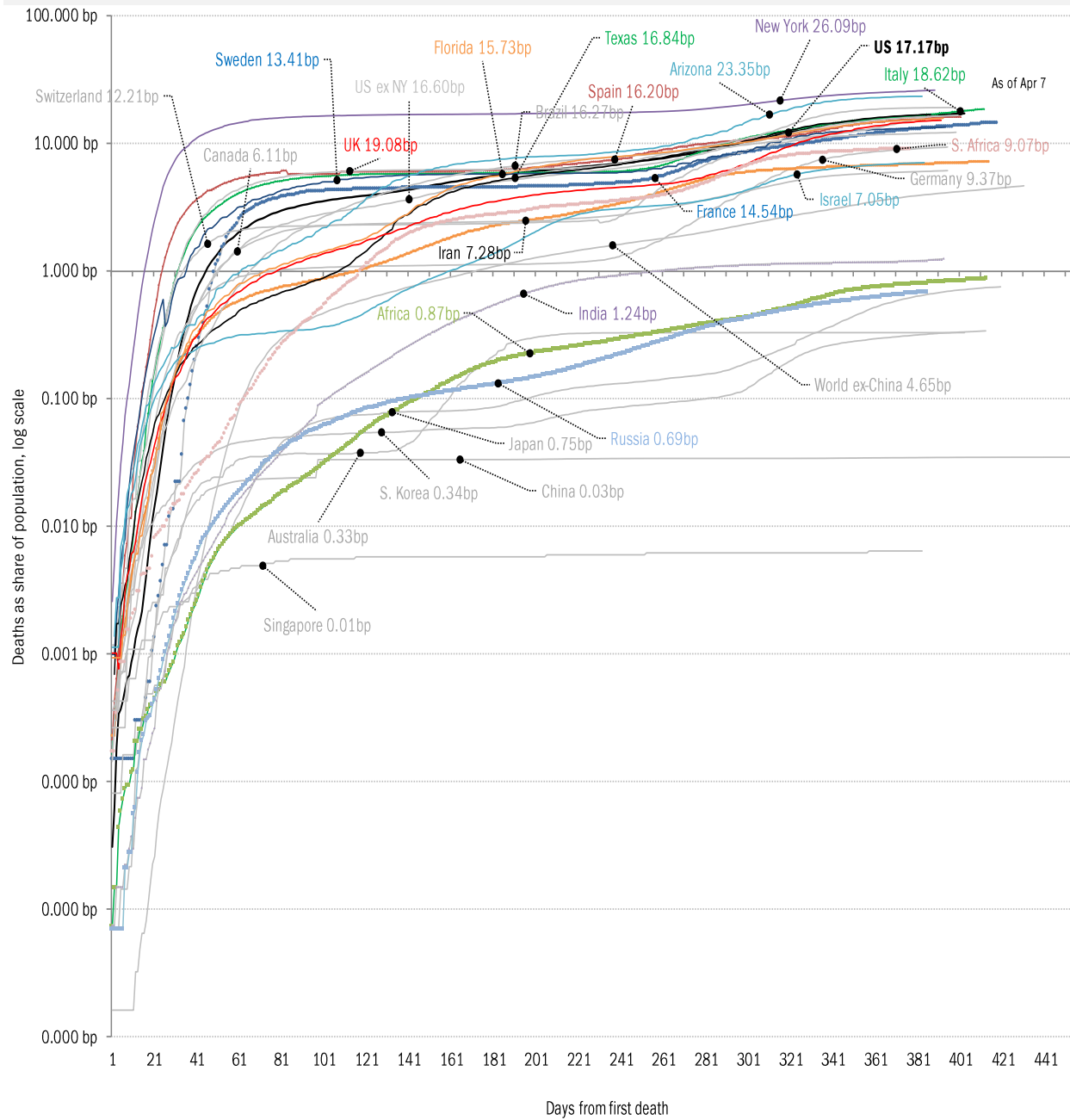
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

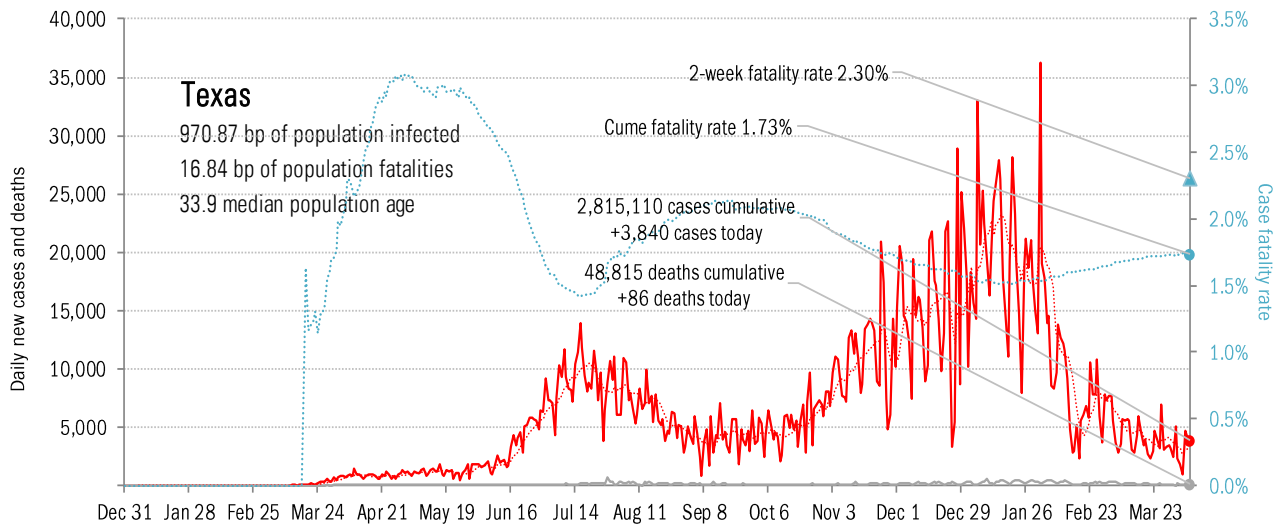
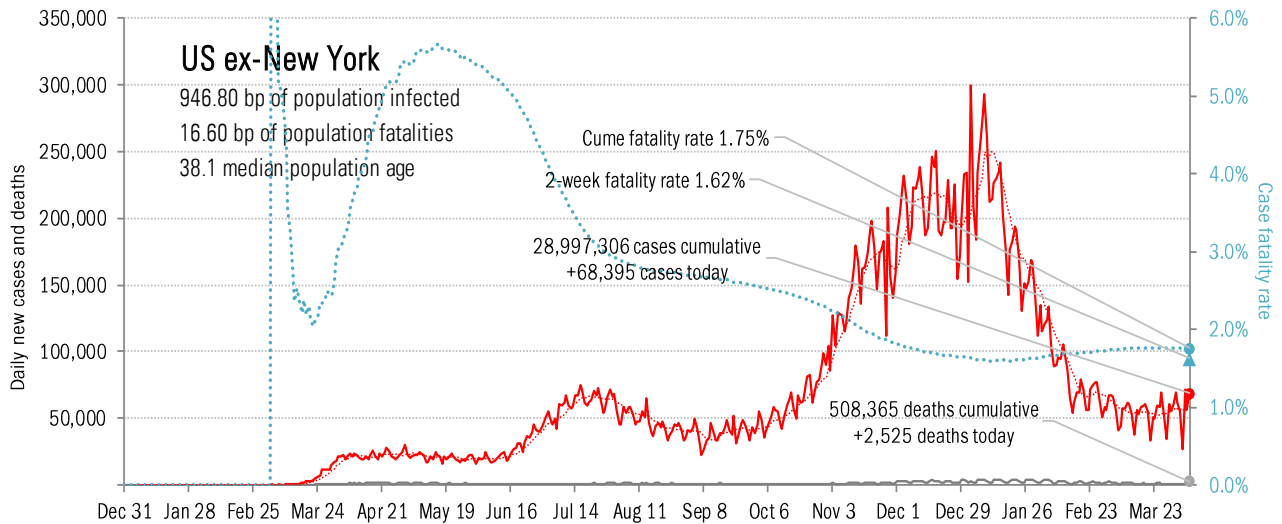
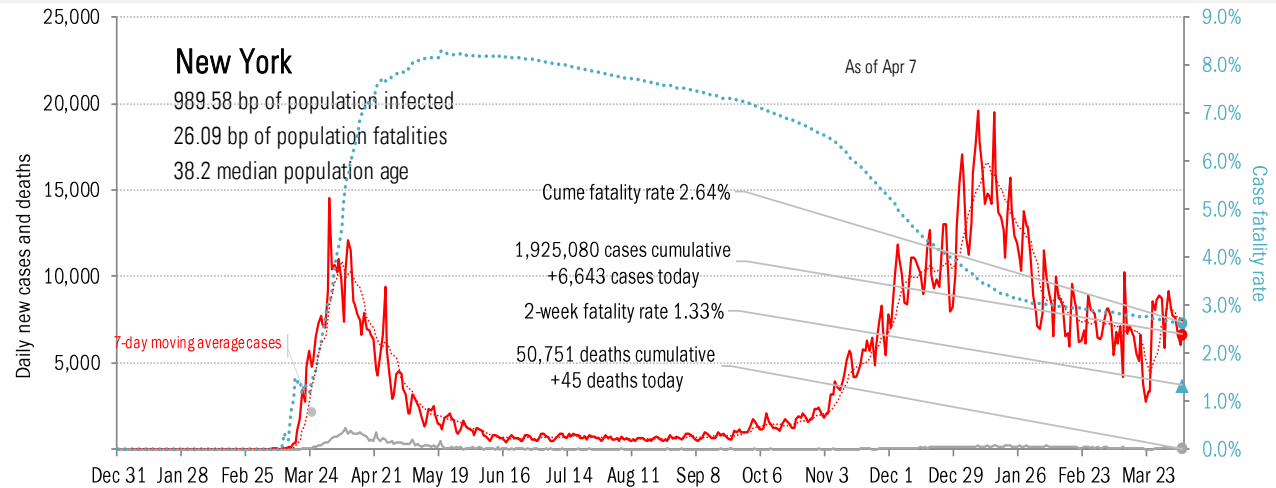
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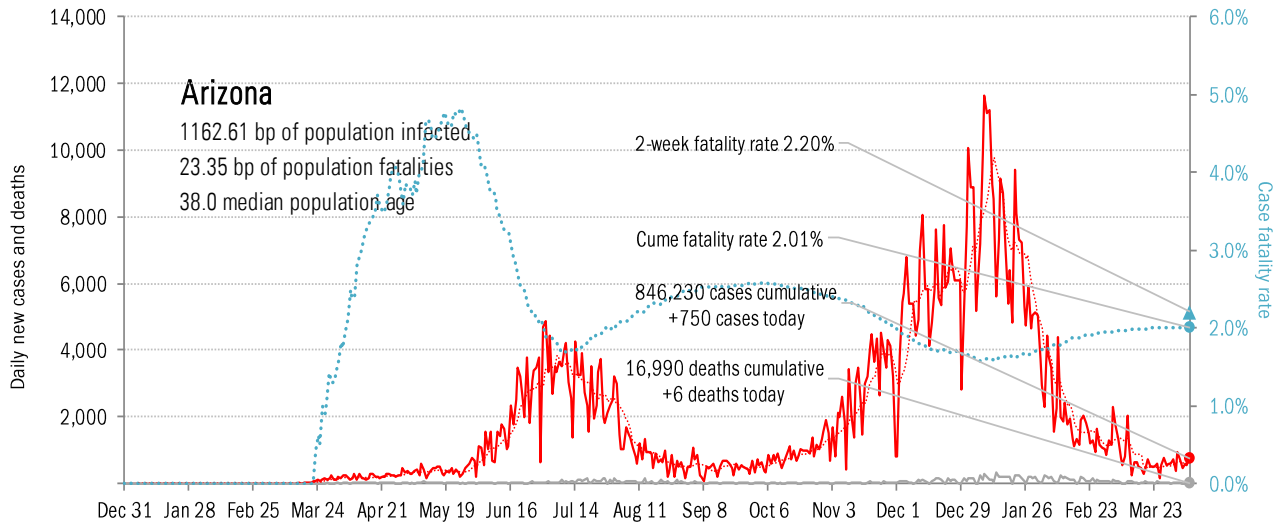
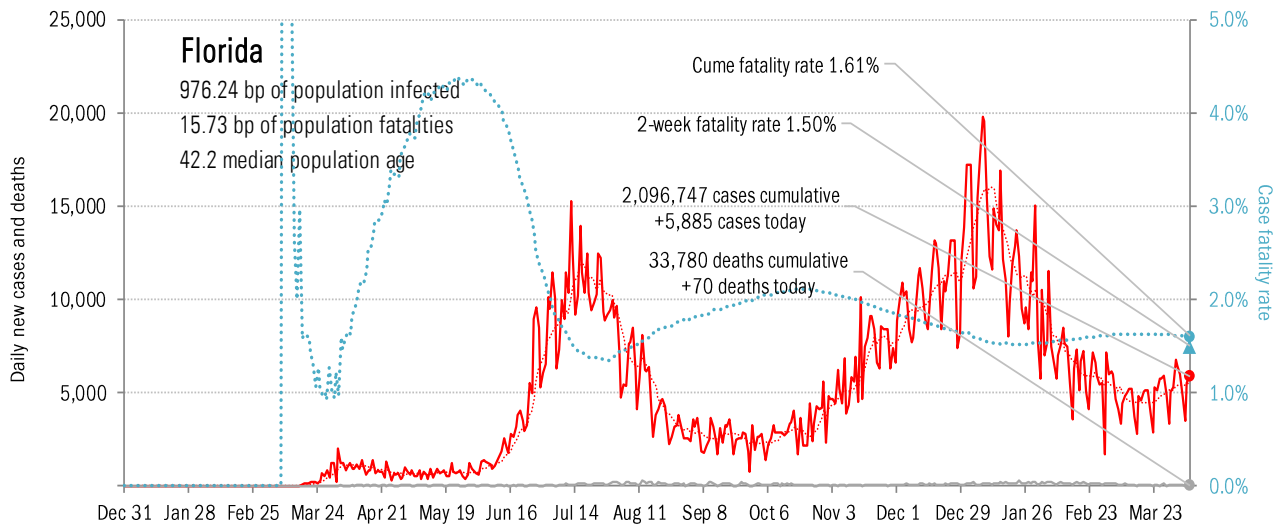
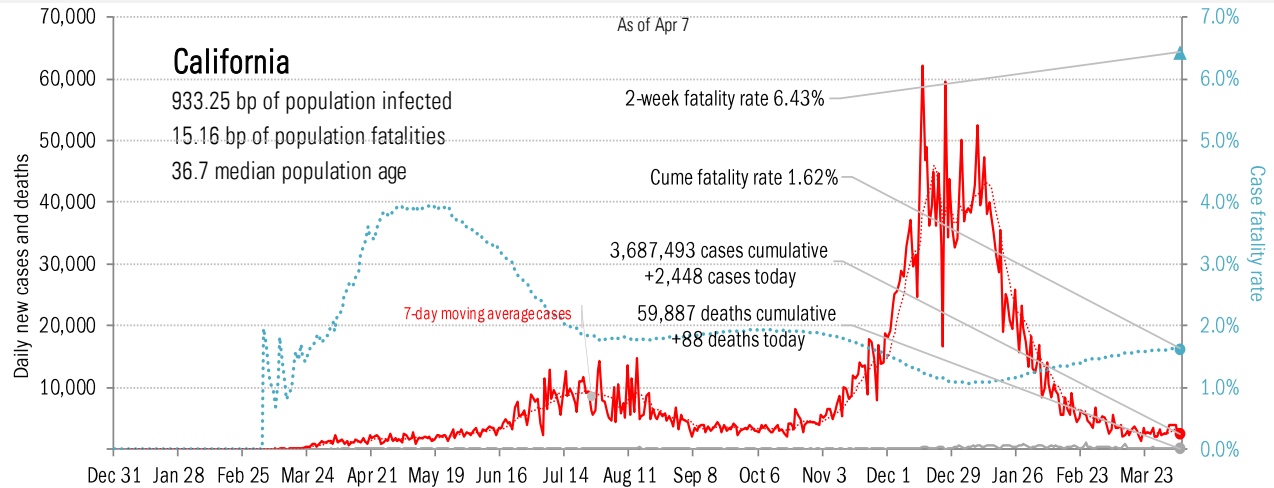
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



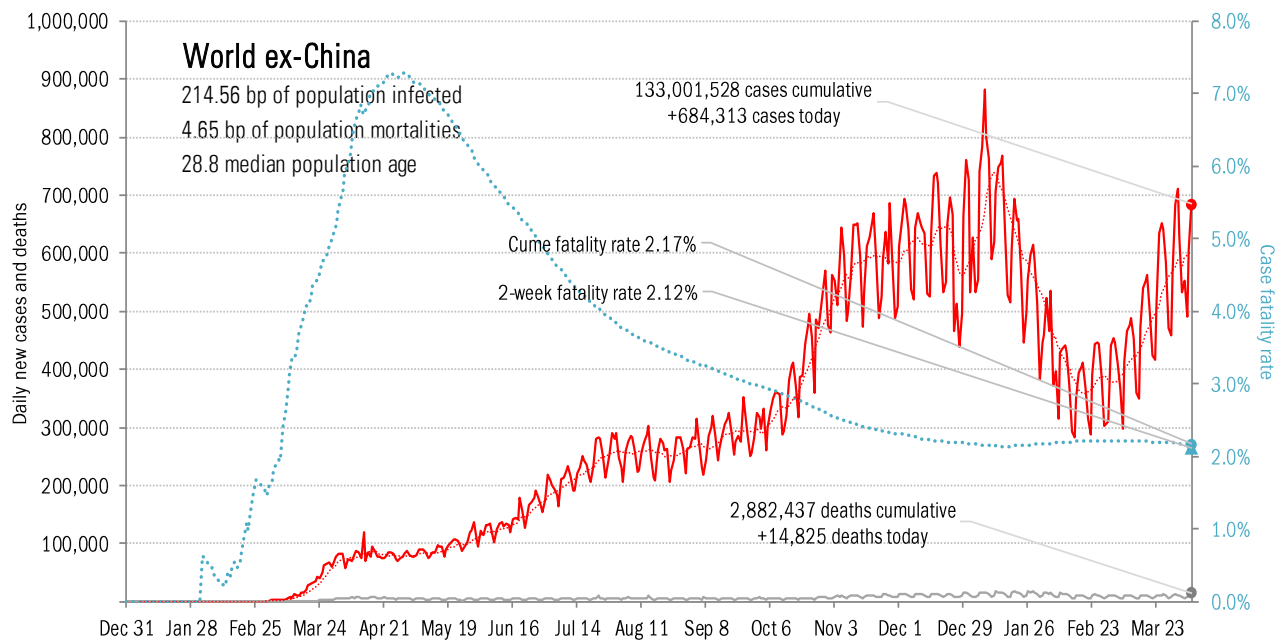
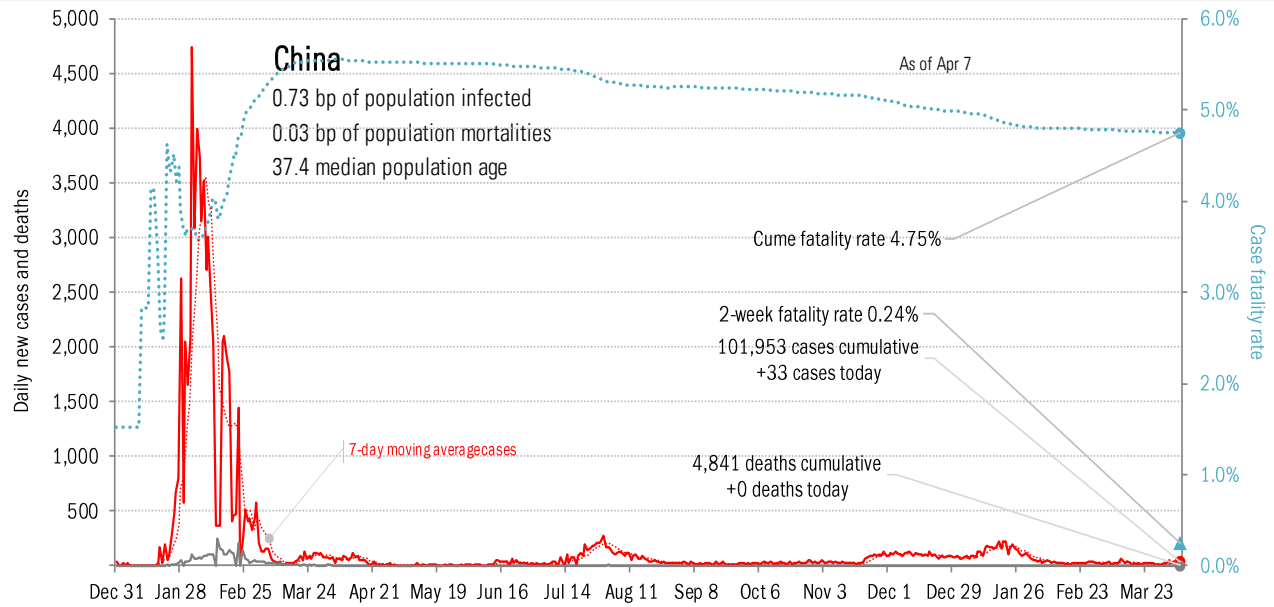
Source: [Johns Hopkins](#), TrendMacro calculations

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



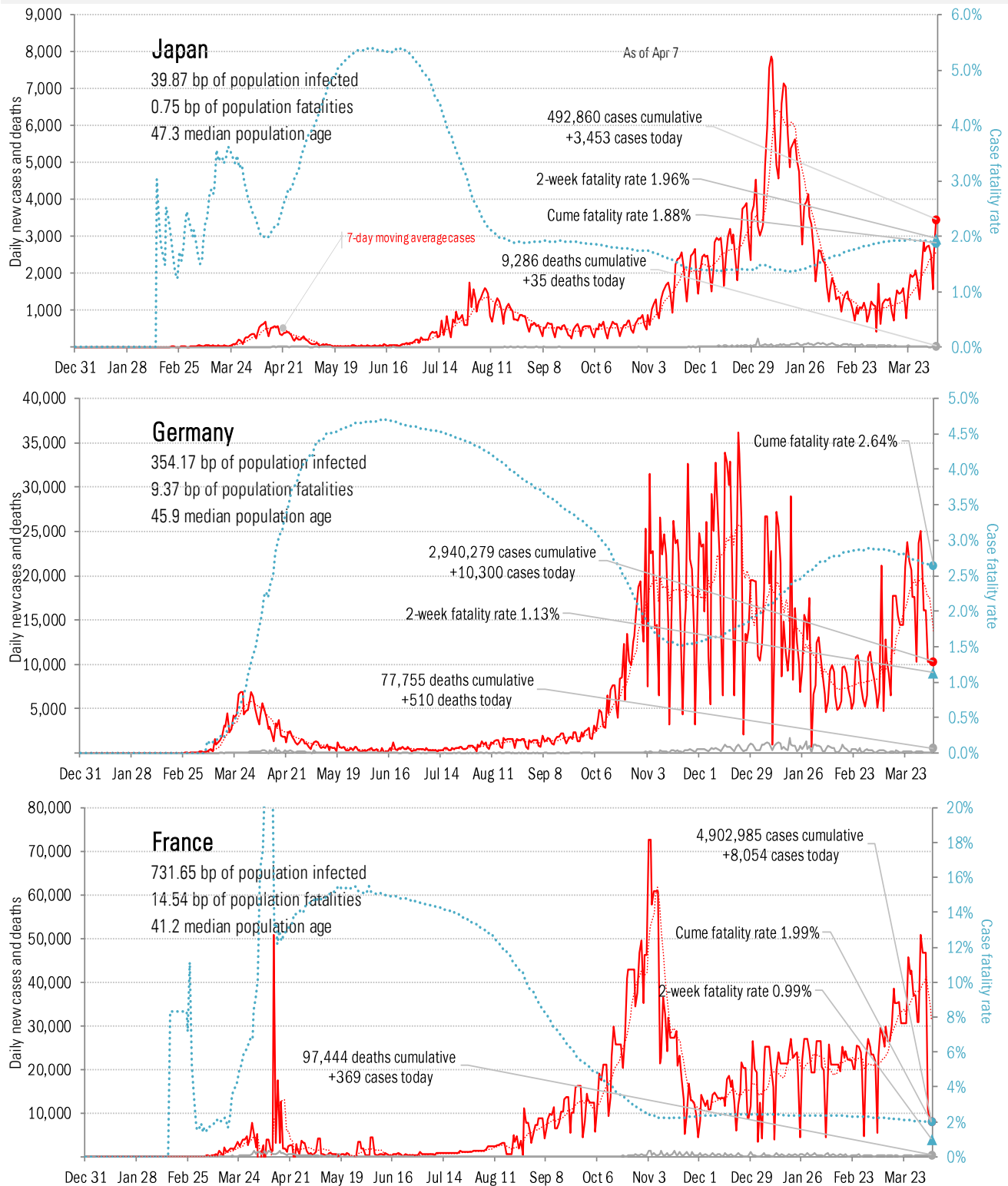
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



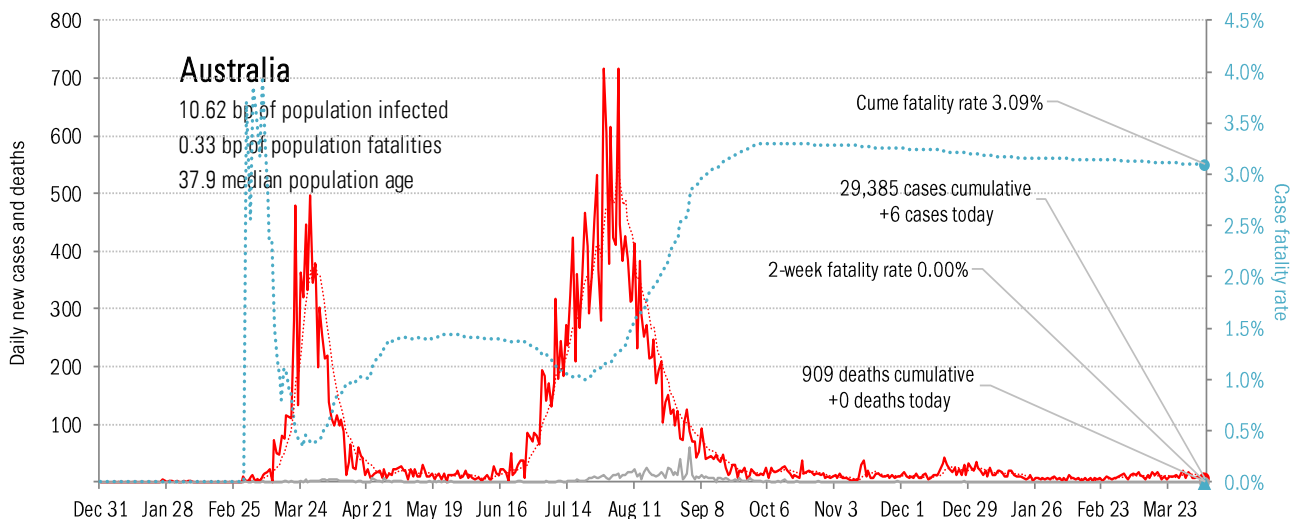
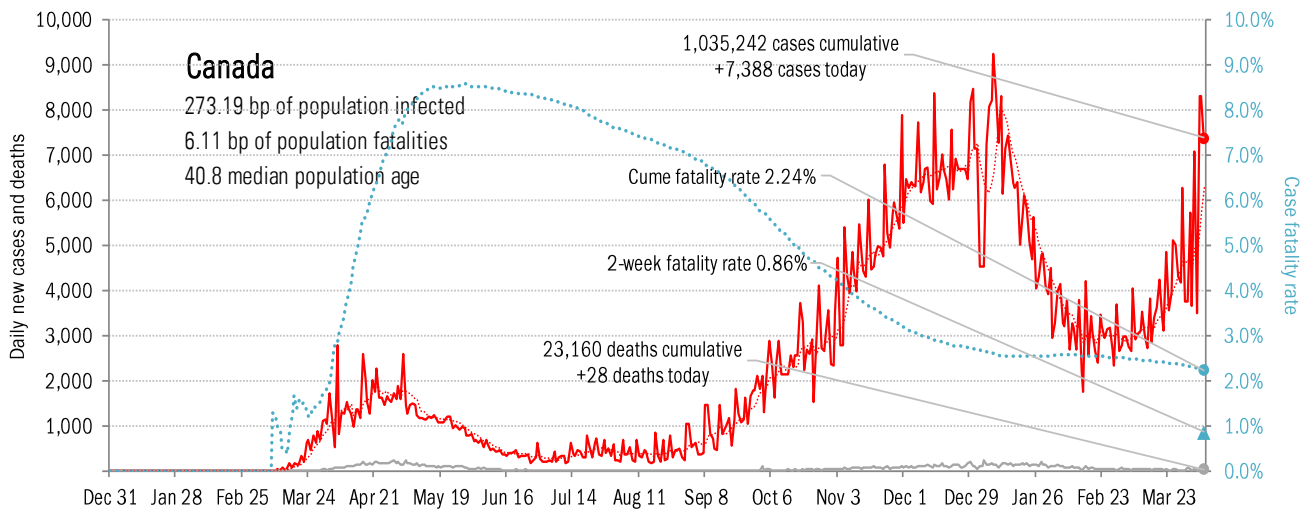
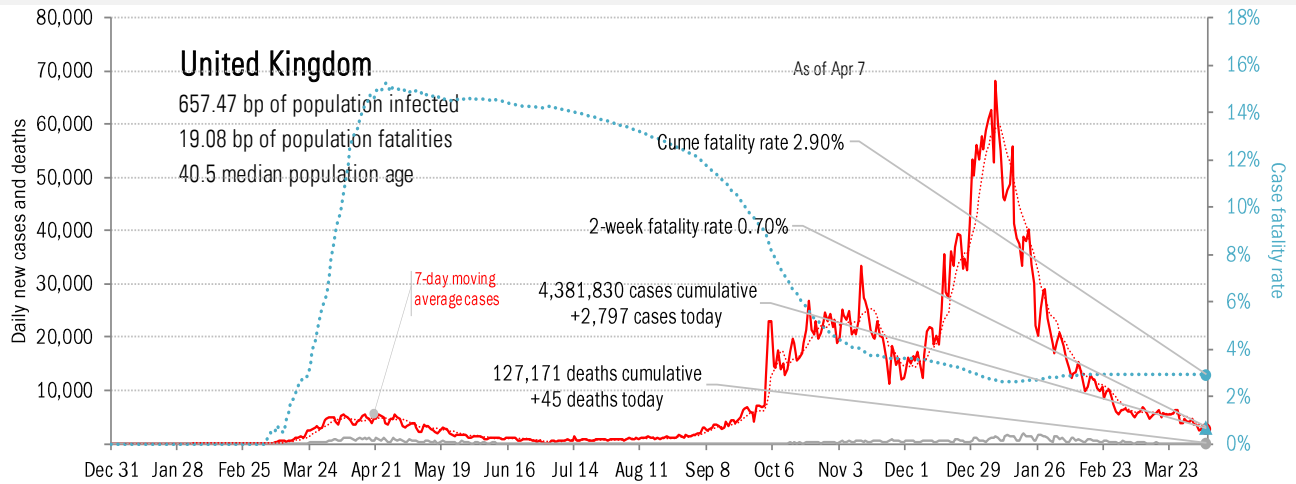
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



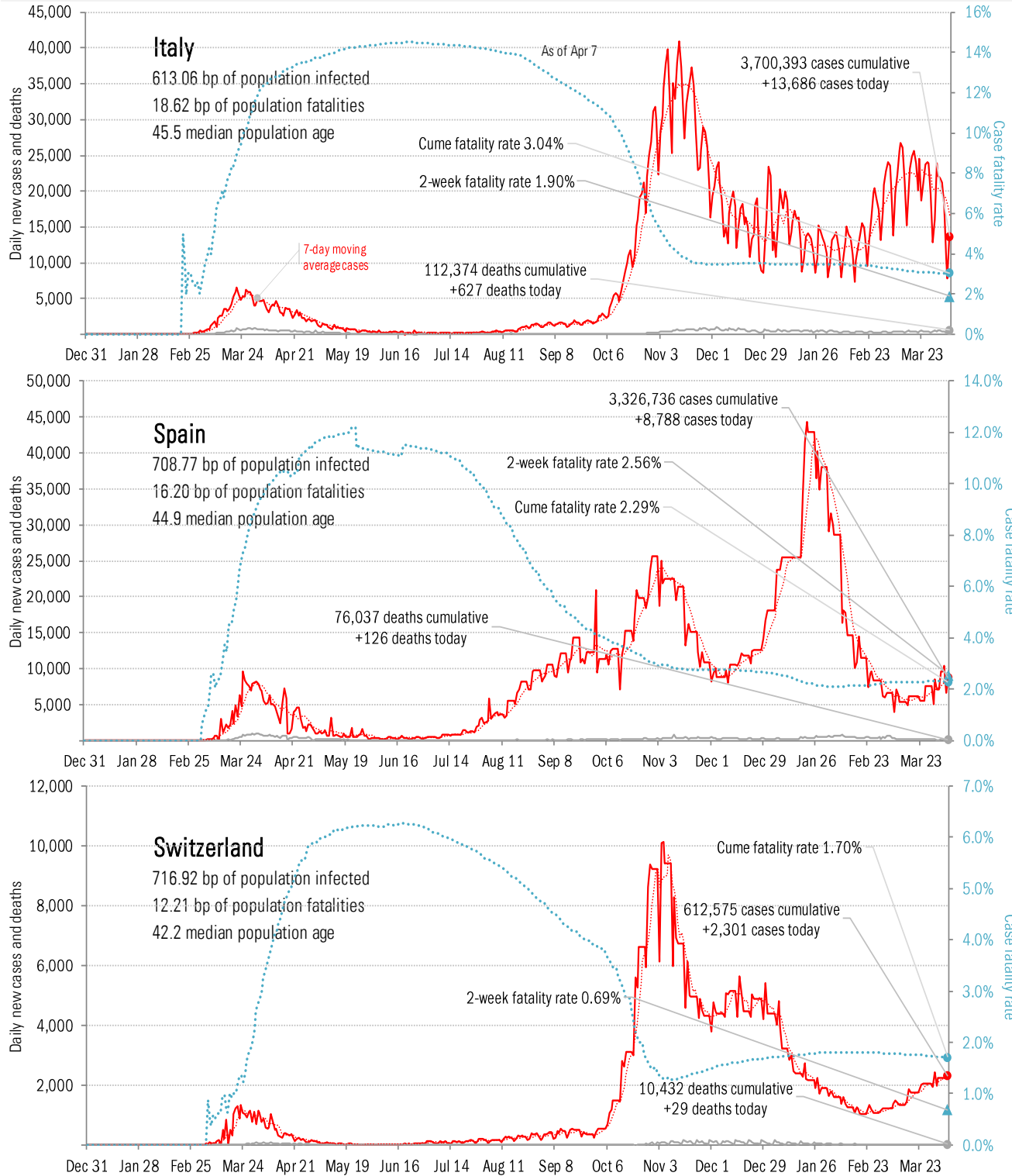
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



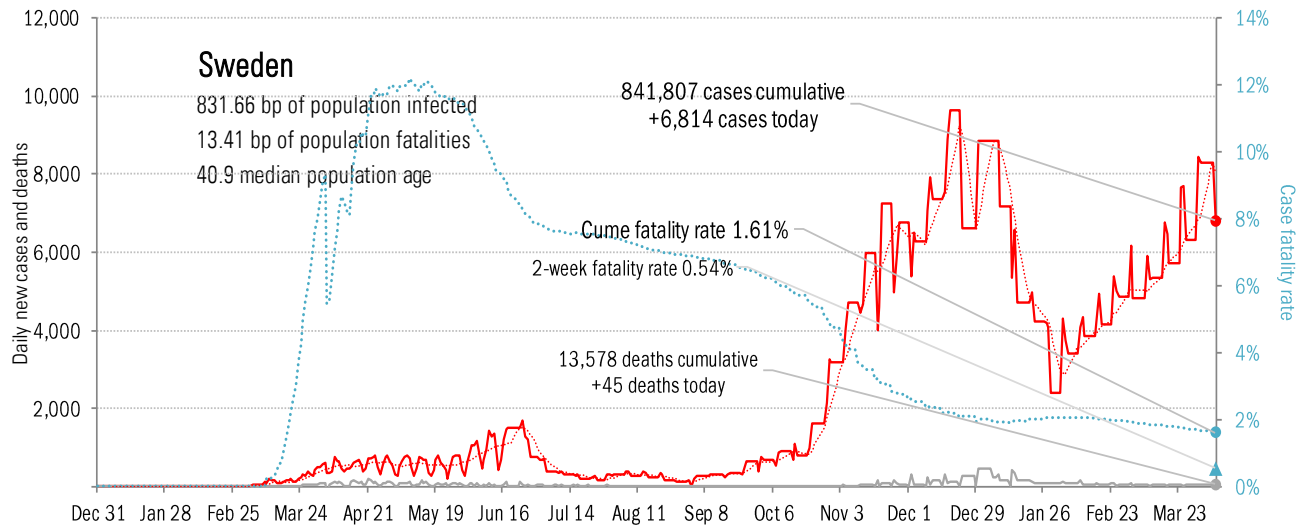
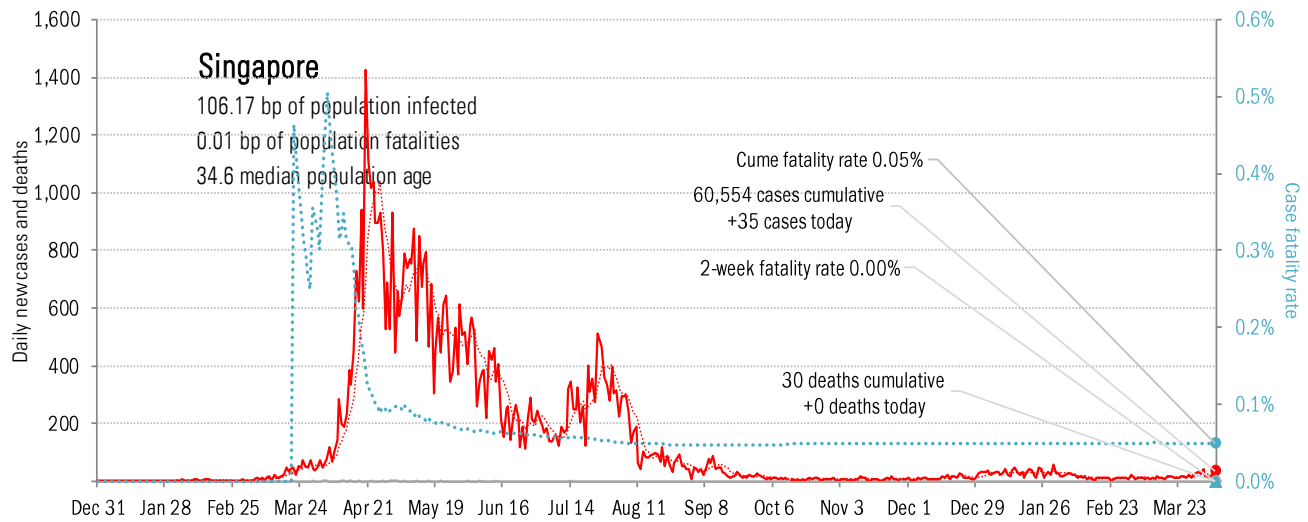
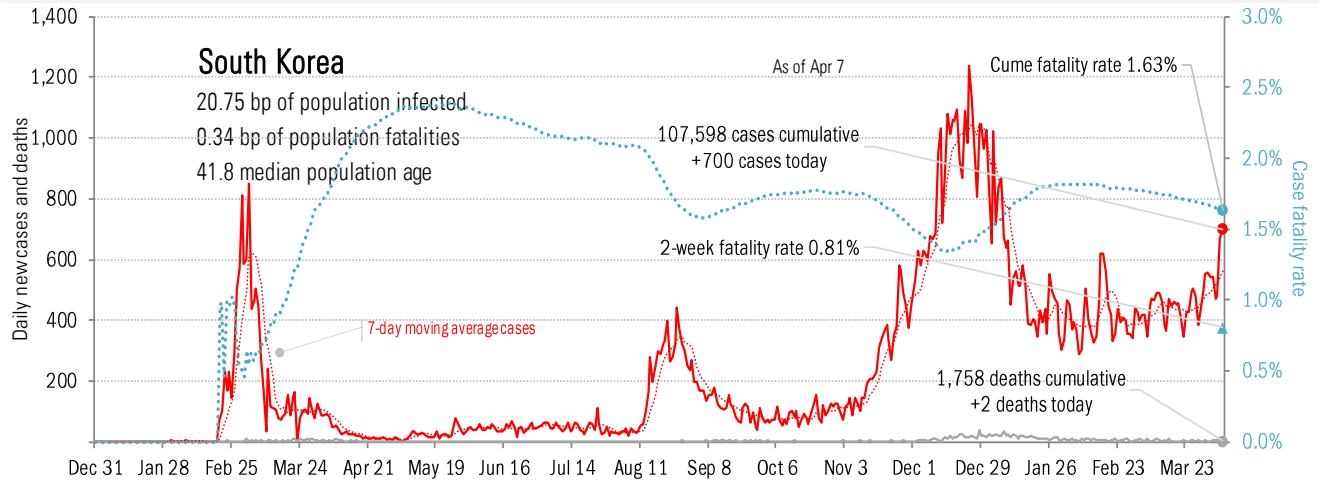
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



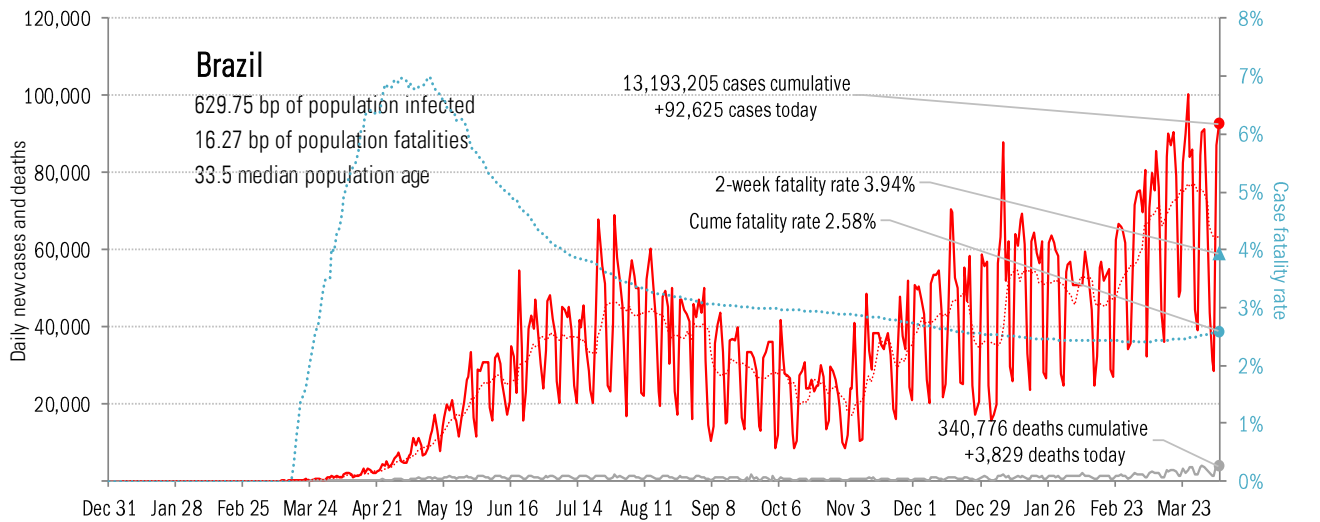
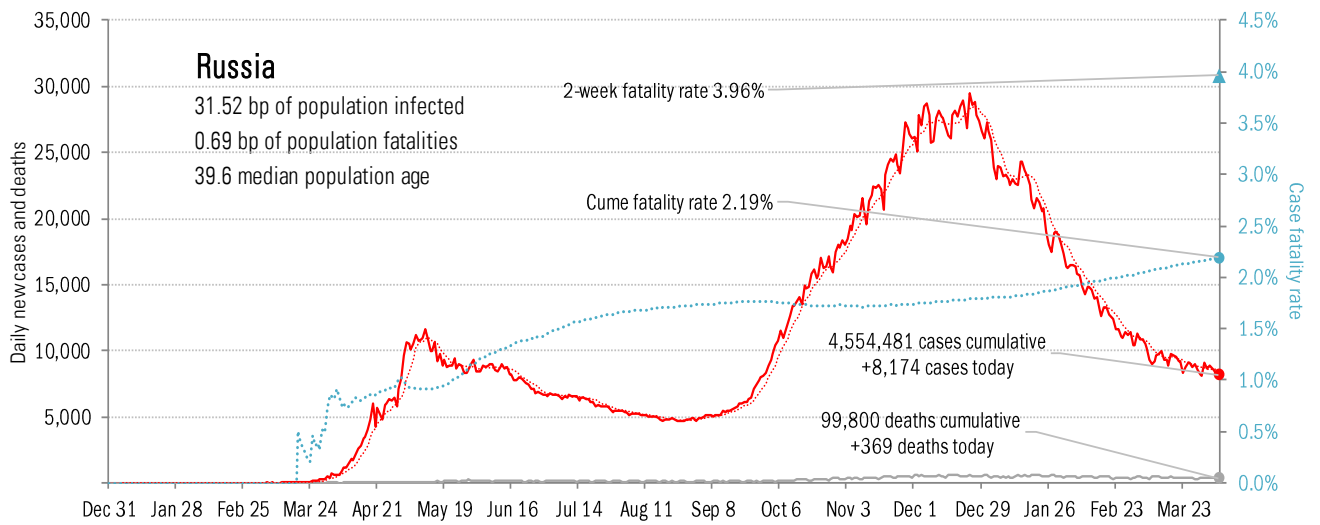
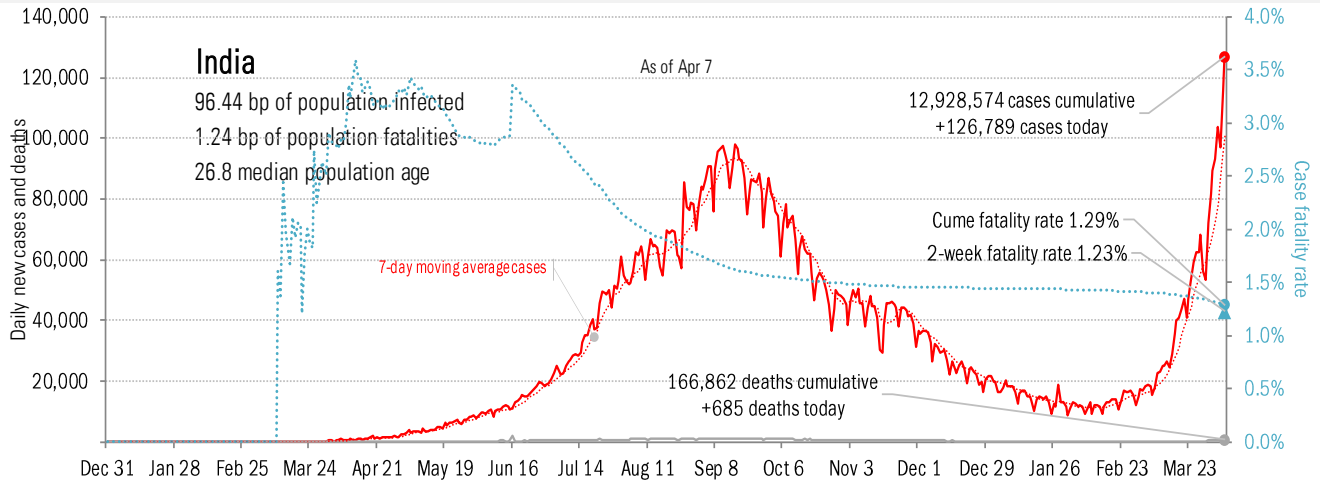
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



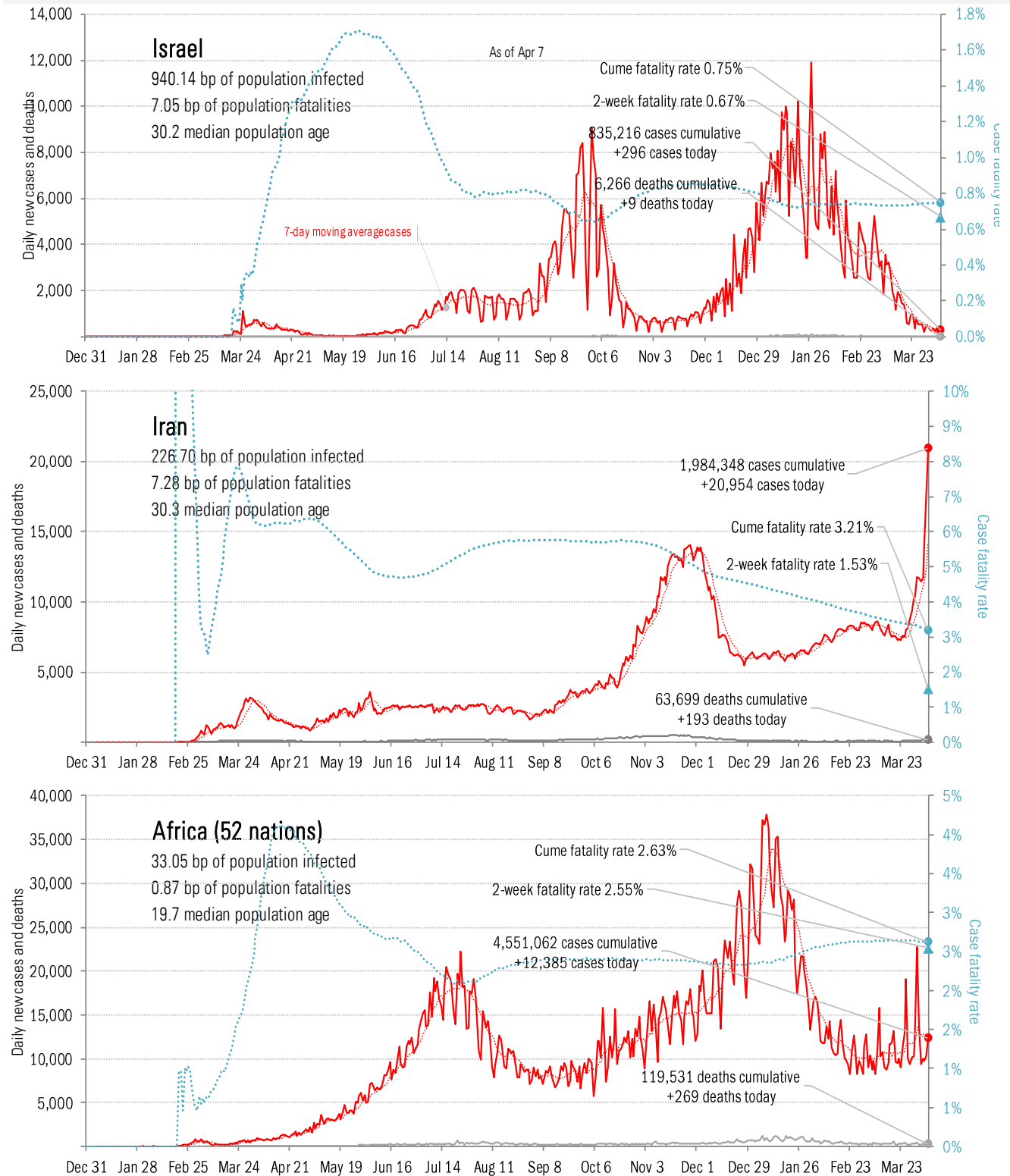
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



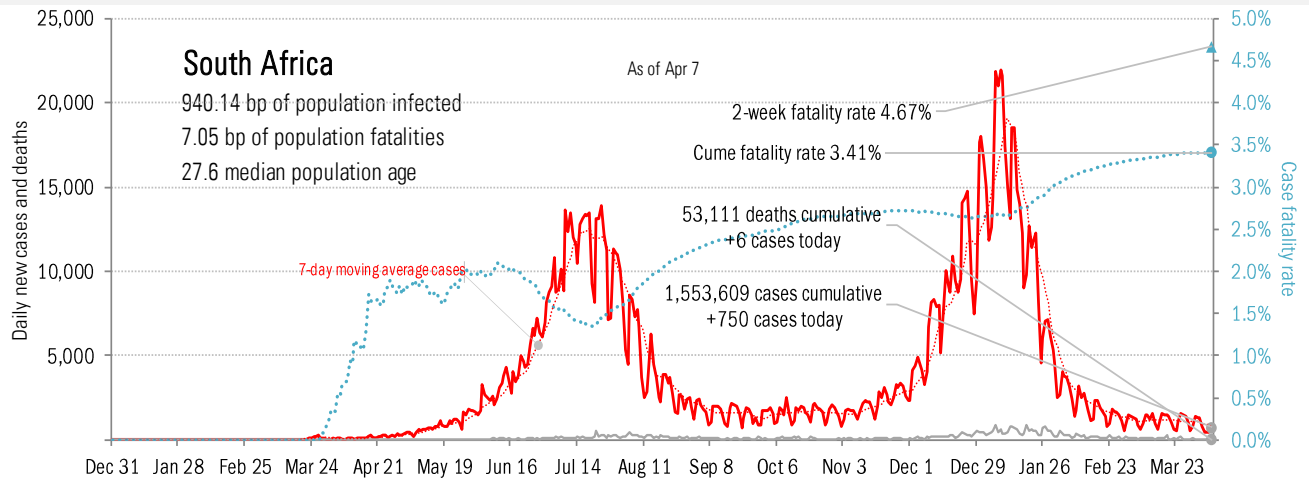
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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