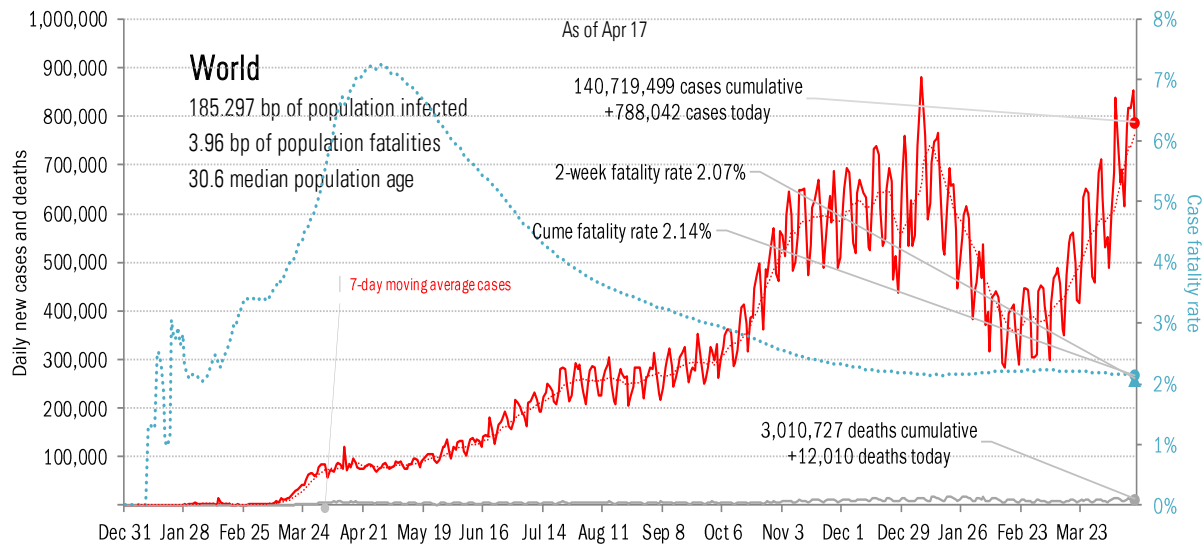
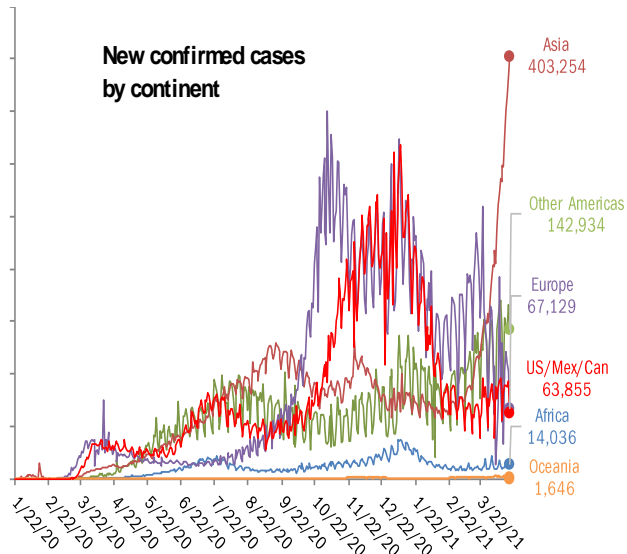


Data Insights: Covid-2019 Monitor

Sunday, April 18, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+261,394	Brazil	+2,929
Brazil	+67,636	India	+1,501
Turkey	+62,606	United States	+680
United States	+52,373	Peru	+648
France	+35,872	Poland	+617
Iran	+21,312	Mexico	+535
Germany	+20,197	Ukraine	+446
Argentina	+19,119	Russia	+392
Colombia	+16,654	Colombia	+367
Peru	+16,563	Iran	+319
+573,726		+8,434	
World	+788,042	World	+12,010
Top ten	73%	Top ten	70%



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

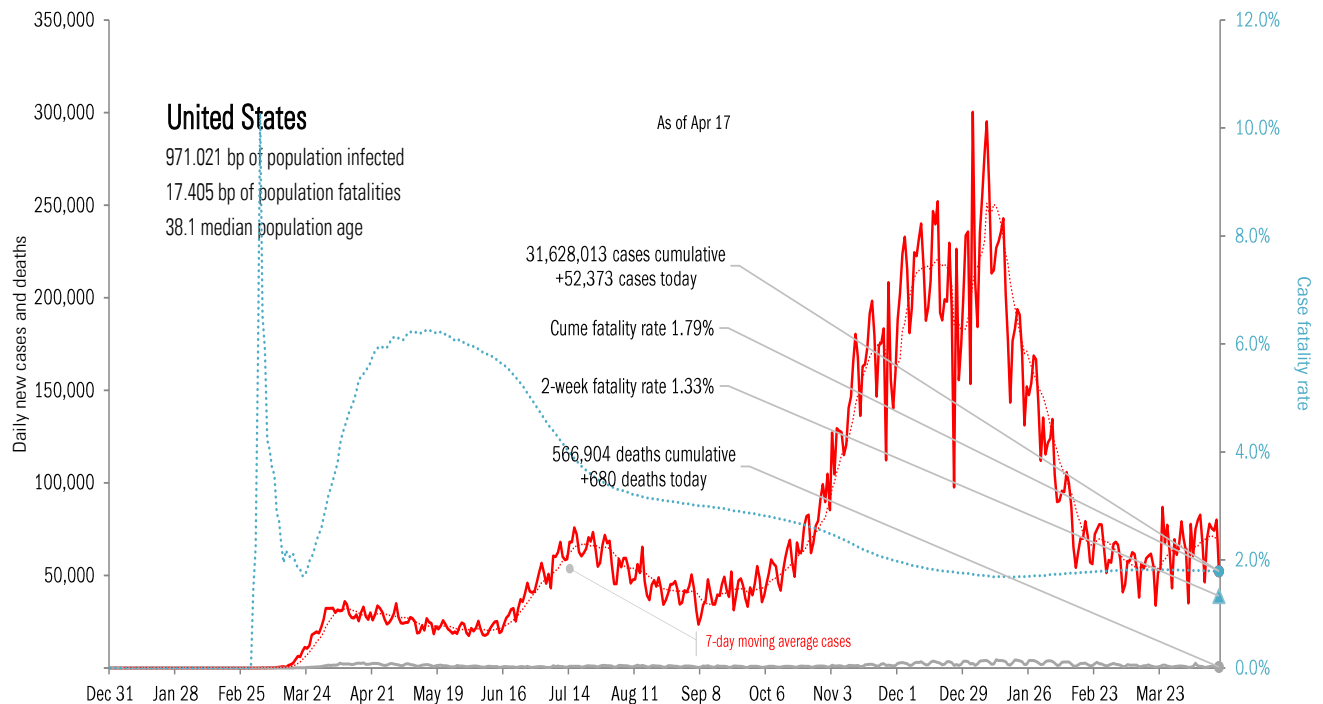
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
NY	+6,590		MI	+76		FR	+215		CA	3,716,579		CA	60,994		TX	233,223		R	92%	MI	31%
FL	+6,323		FL	+74		IL	+106		TX	2,849,072		NY	51,537		CA	227,481		MA	84%	MD	26%
MI	+6,076		CA	+72		MI	+41		FL	2,162,067		TX	49,562		FL	161,133		MD	82%	MN	20%
PA	+4,204		NY	+67		GA	+38		NY	1,993,271		FL	34,404		NY	124,095		PA	82%	RI	19%
NJ	+3,922		TX	+52		TN	+36		IL	1,299,475		PA	25,644		GA	98,306		MI	82%	NY	18%
IL	+3,208		AL	+51		NY	+30		PA	1,105,061		NJ	25,134		PA	80,126		CT	81%	PA	16%
IN	+2,479		NJ	+40		CH	+30		GA	1,083,300		IL	23,945		CH	79,205		MO	80%	CO	14%
MN	+2,419		GA	+39		WI	+29		CH	1,052,099		GA	19,757		IL	72,842		FL	79%	IL	14%
CA	+1,992		PA	+31		KY	+28		NJ	975,704		CH	18,991		KY	70,459		MN	79%	DC	14%
CH	+1,987		IL	+25		WA	+27		NC	943,693		MI	17,934		MI	59,811		SC	79%	ME	13%
+39,200			+527			+580			17,180,321			327,902			1,206,681						
All states	+52,373		+680			+477			All states	31,628,013		566,904			2,153,974			All states	70%	67%	
Top ten	75%		78%			122%			Top ten	54%		58%			56%			Median	73%	10%	

Some states not reporting

Five most improved US states

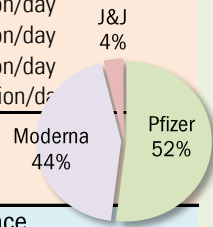
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MO	-9,339	CH	-74	NJ	-113	CA	+121 bp
MI	-3,774	CA	-42	TX	-74	VA	+82 bp
NC	-2,475	PA	-36	CO	-56	NE	+82 bp
TN	-1,370	AZ	-32	FL	-51	VT	+75 bp
PA	-1,332	NC	-28	PA	-47	KS	+75 bp



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
275.51 million doses distributed	+6.01 million/day	US	24.7%	38.7%
213.43 million doses administered	+3.67 million/day	UK	13.9%	48.2%
133.47 million persons partially immunized	+1.78 million/day	France	6.5%	18.1%
85.50 million persons fully immunized	+1.91 million/day	Spain	7.1%	19.3%
7.78 million shots long-term care residents/staff	+0.002 million/day	Germany	6.5%	19.0%
		Italy	7.3%	17.5%
		Australia	0.9%	0.6%
		Israel	57.4%	61.7%
		Canada	2.4%	23.5%
		Japan	0.5%	0.9%
		Africa	0.3%	0.8%
		India	1.2%	7.7%
		Brazil	3.8%	11.7%



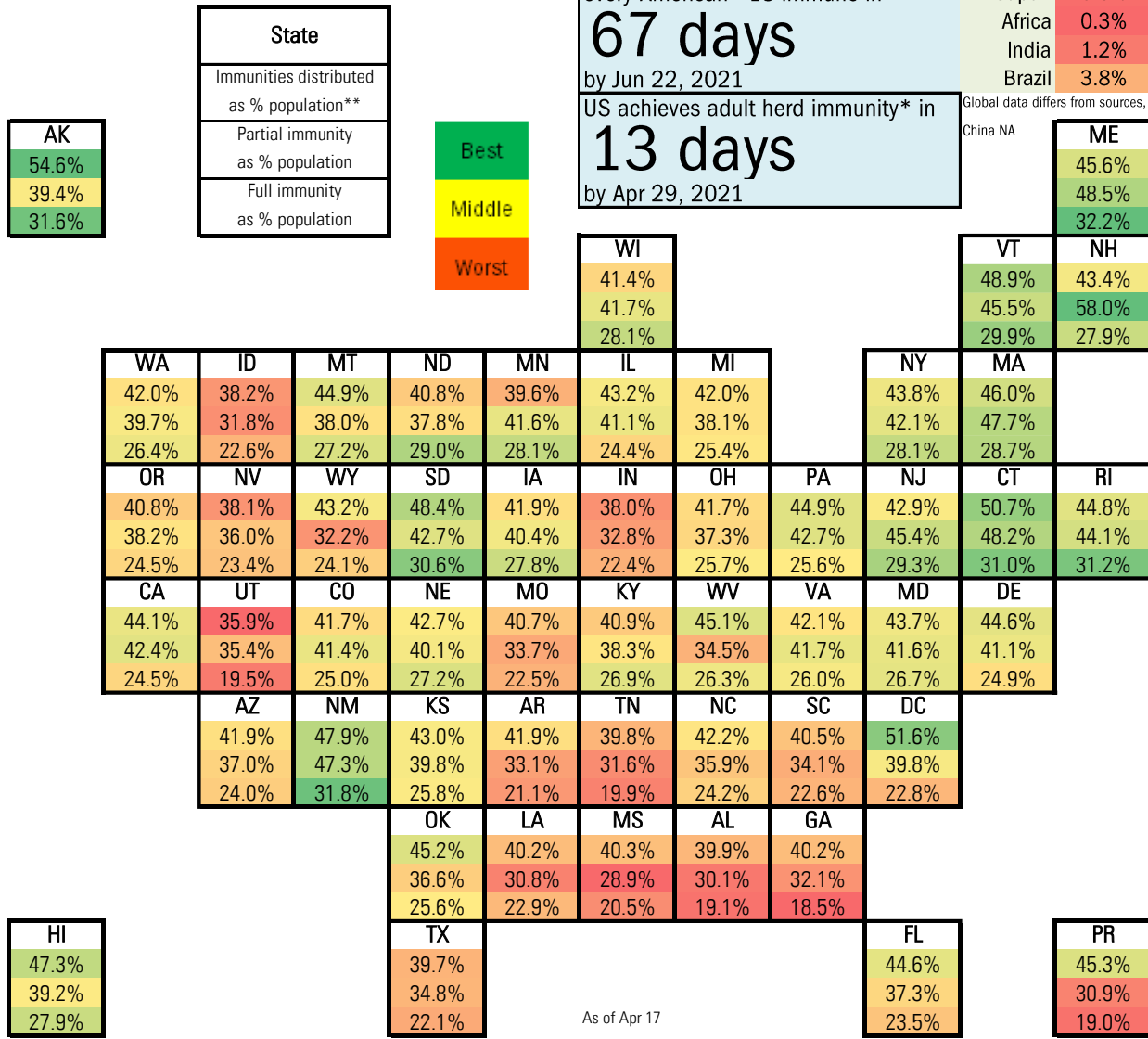
77.5% of distributed doses administered
 40.0% of US pop partial
 100% of LTC partial

25.6% full immunity
 63.9% full immunity

At today's dosing pace,
 every American >18 immune in
67 days
 by Jun 22, 2021

US achieves adult herd immunity* in
13 days
 by Apr 29, 2021

Global data differs from sources, timing
 China NA

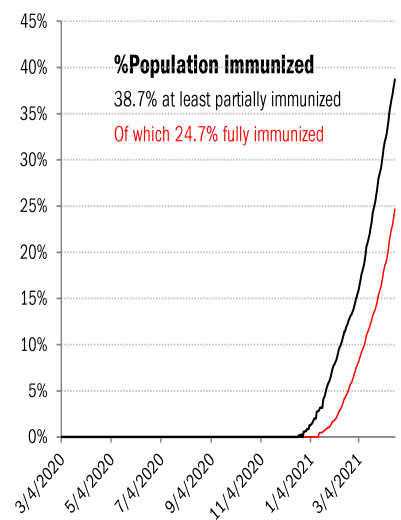
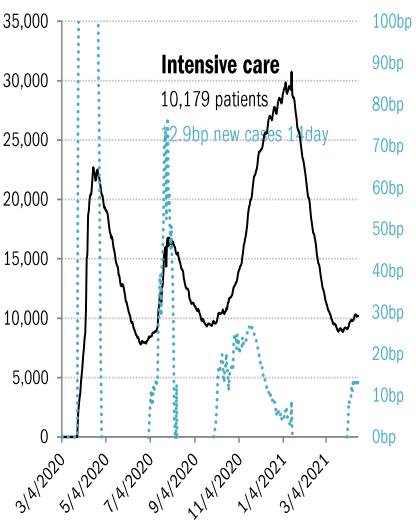
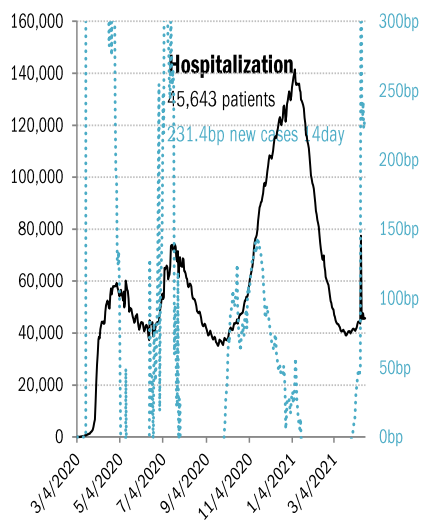
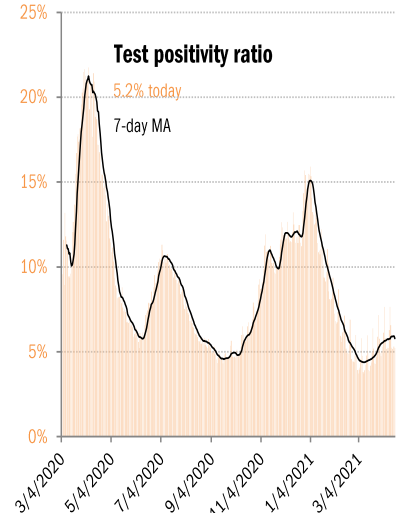
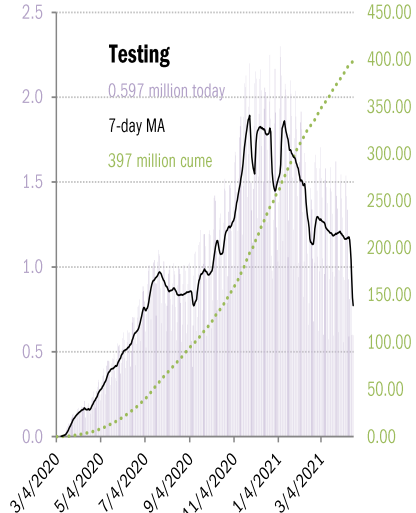
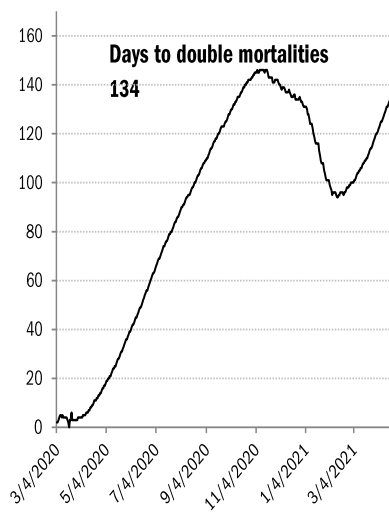
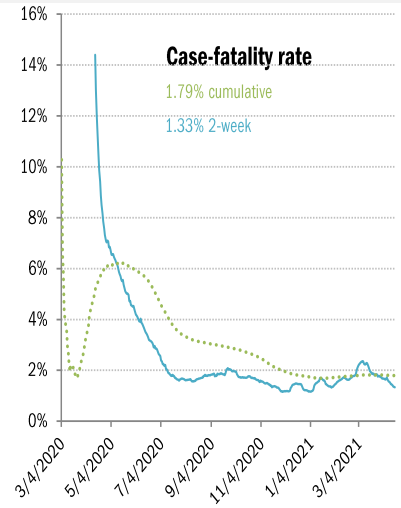
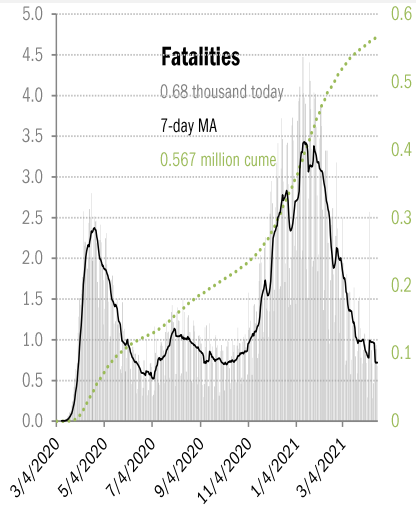
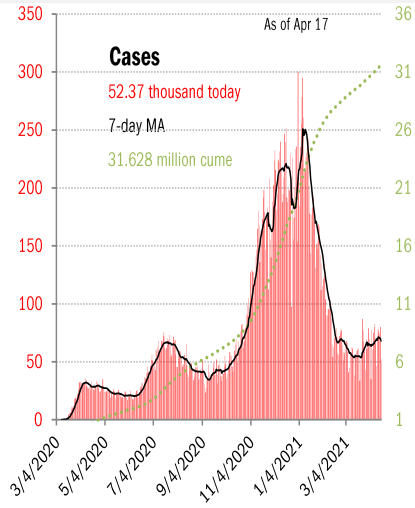


* Adult herd immunity is 60% of population over 18 years either fully vaccinated or prior tested positive, no overlap
 ** One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

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

US deep-dive

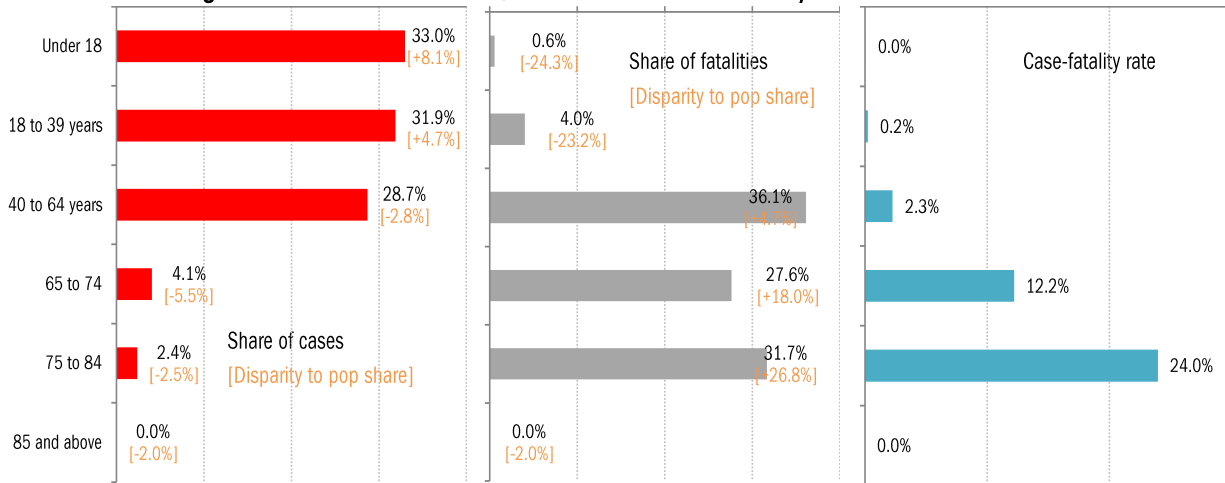
National and state-by-state data do not line up because of different sources



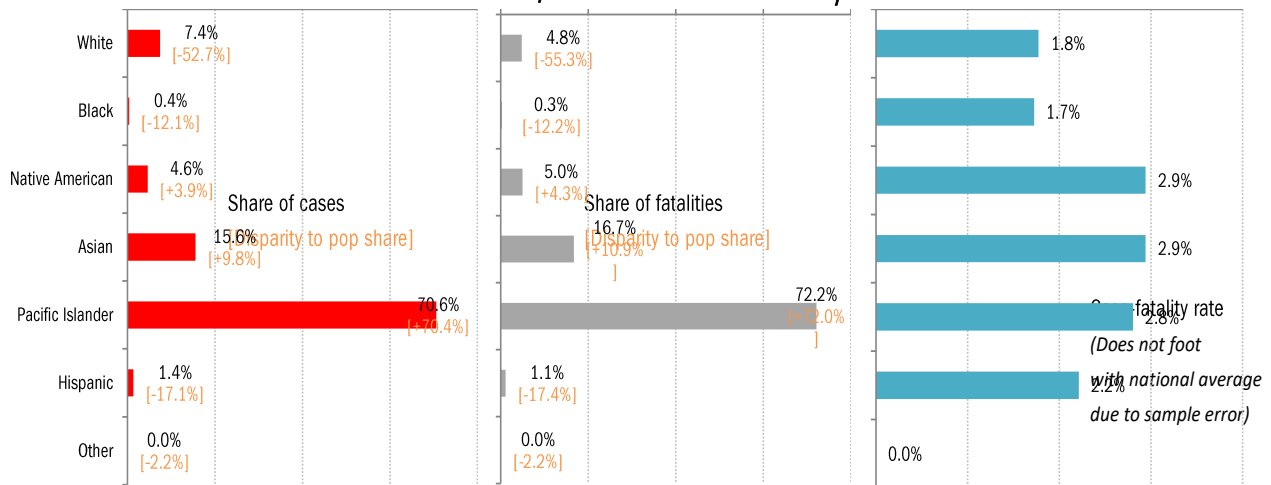
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

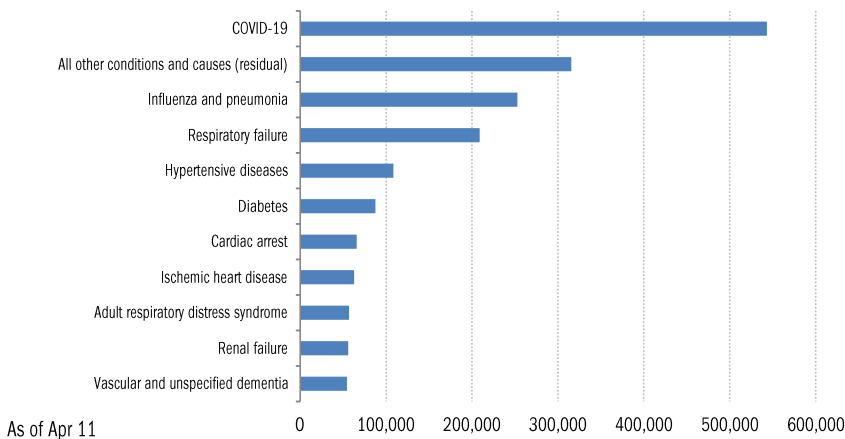


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



For over 5% 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

[S.U.V. Driver Jumps a Rising Drawbridge in Florida](#)

Jesus Jiménez
New York Times
April 16, 2021

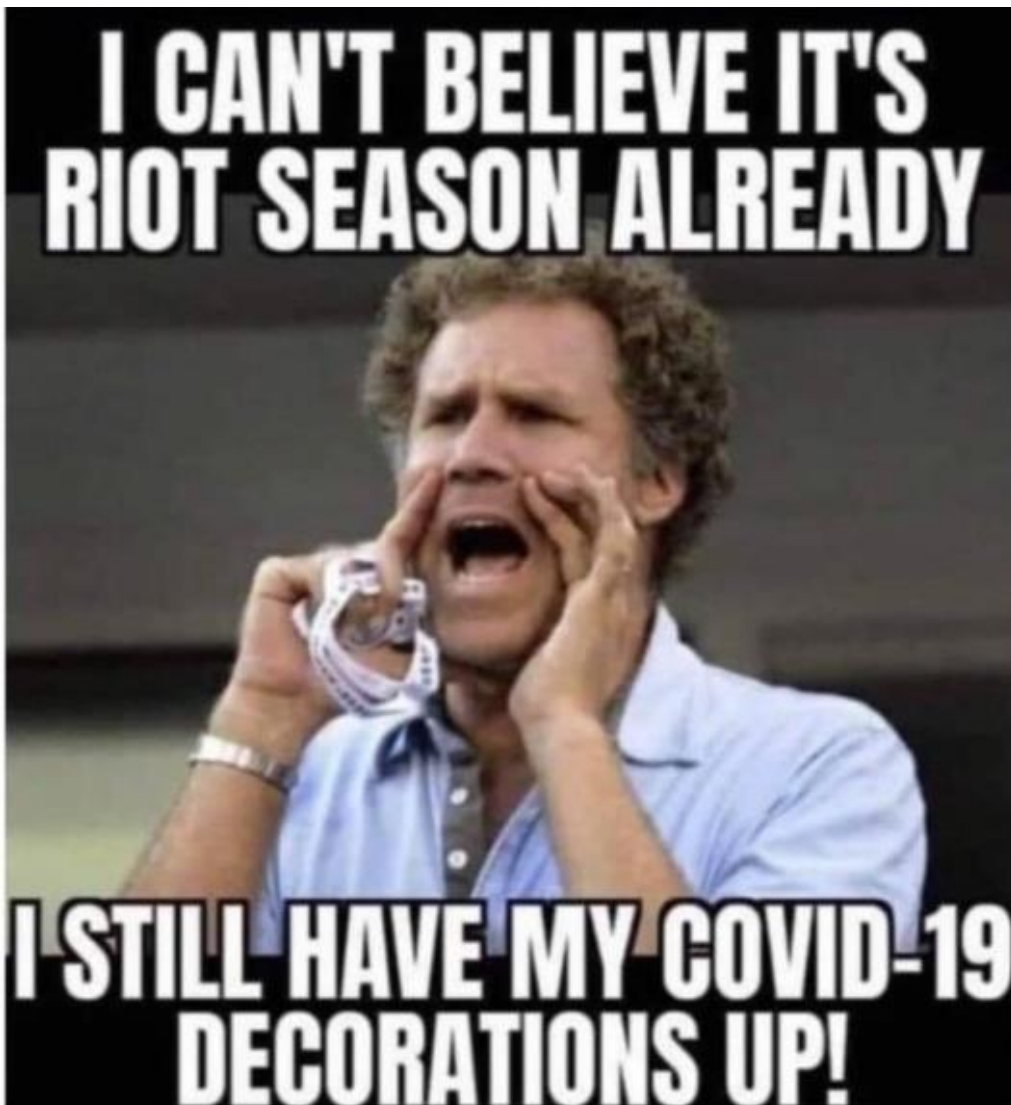
[Bill Maher: Why are Democrats so badly misinformed about COVID?](#)

Allahpundit
Hot Air
April 17, 2021

[Can Covid Research Help Solve the Mysteries of Other Viruses?](#)

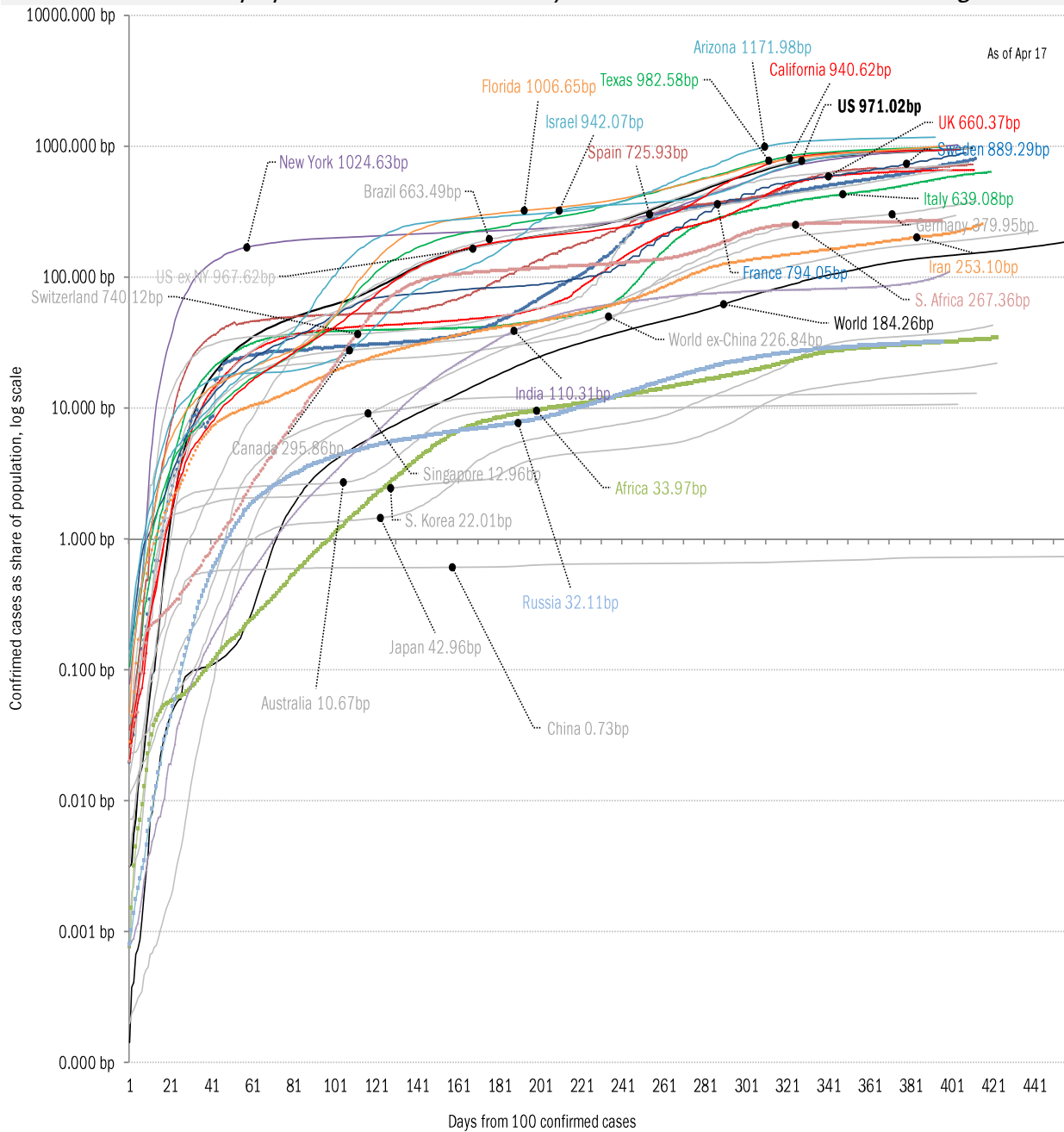
Gina Kolata
New York Times
April 17, 2021

Meme of the day



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

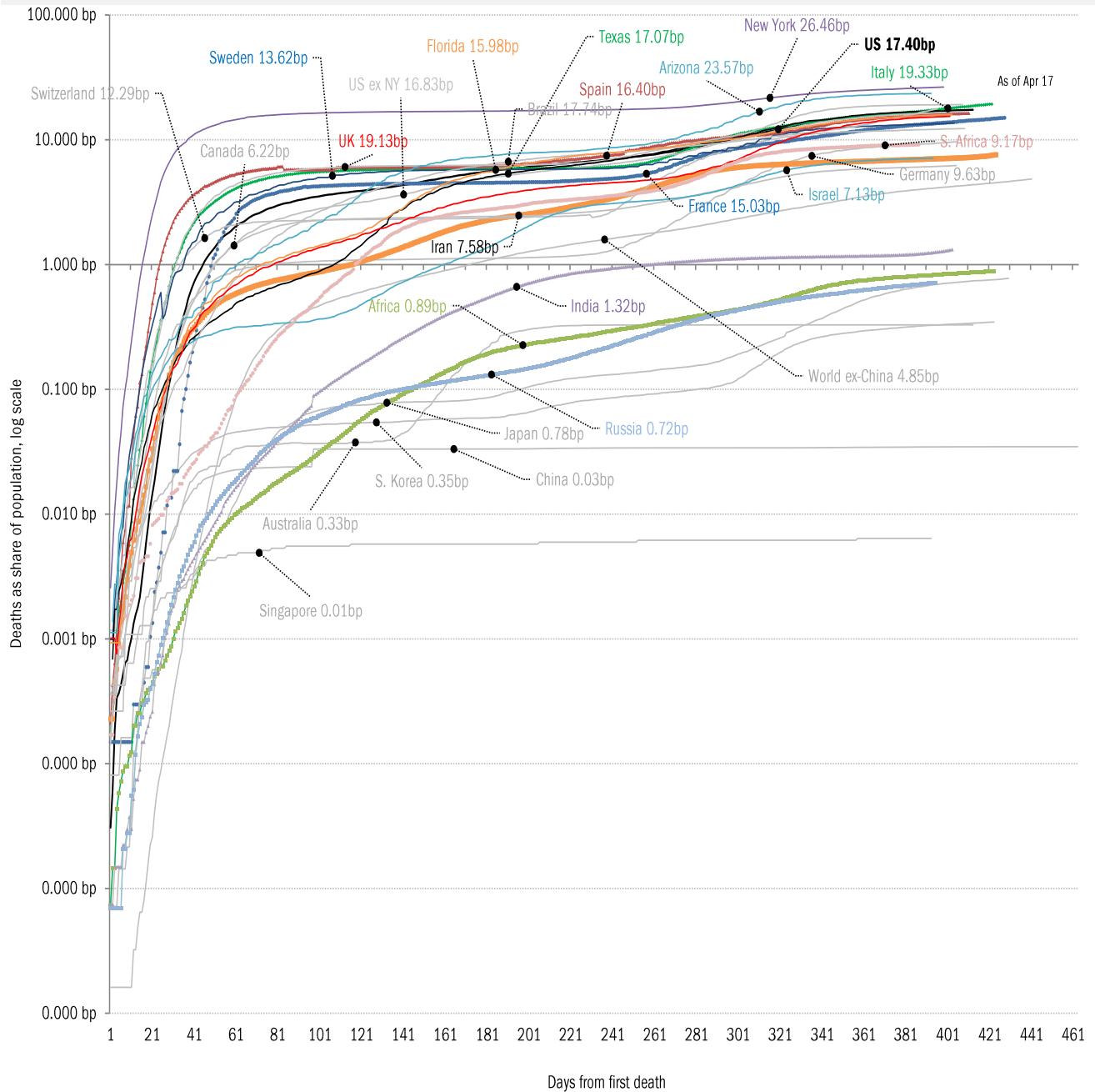
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

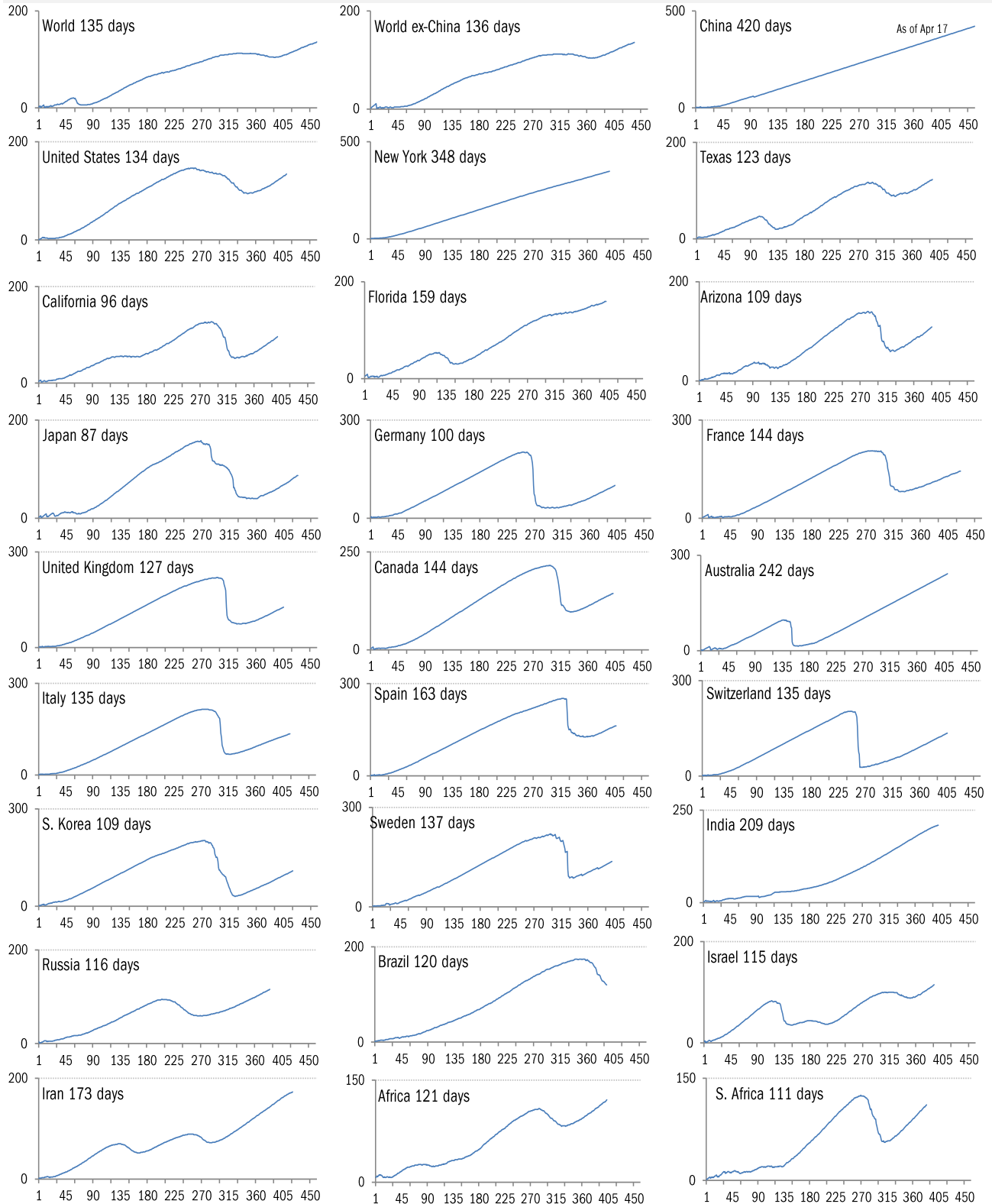


Source: [Johns Hopkins](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-19

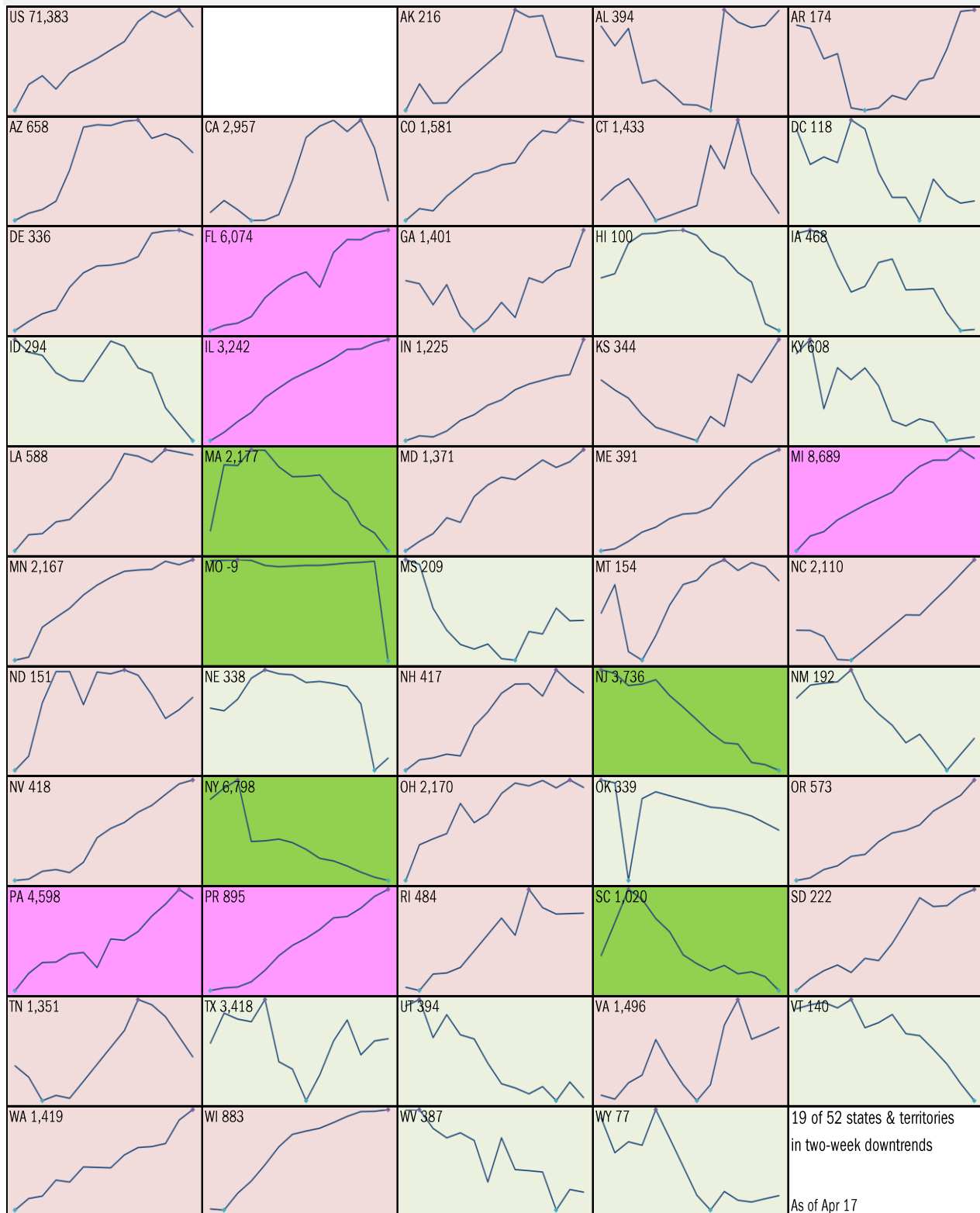
Vertical: days to double deaths Horizontal: days from first death

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

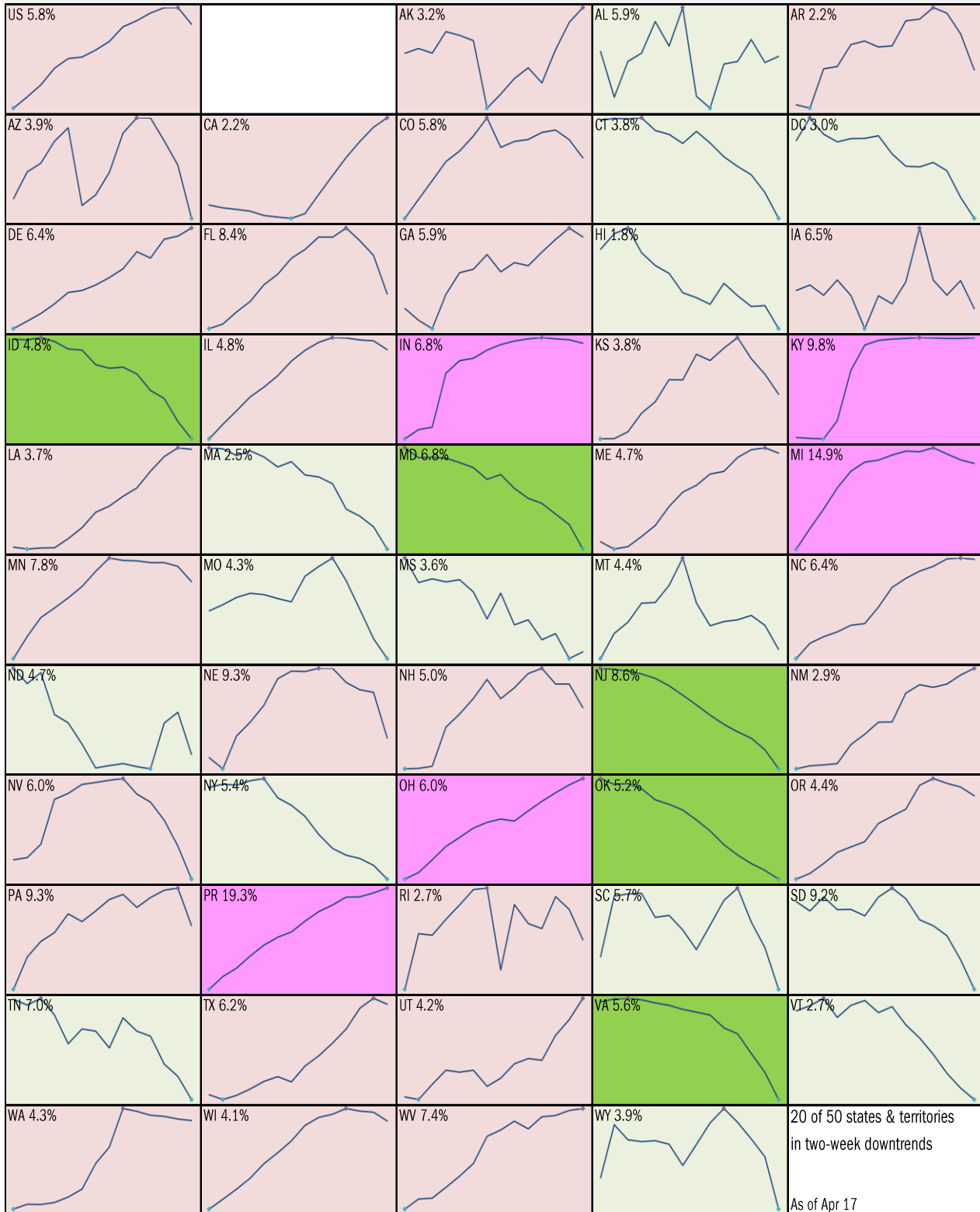


Source: [Johns Hopkins](#), TrendMacro calculations

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

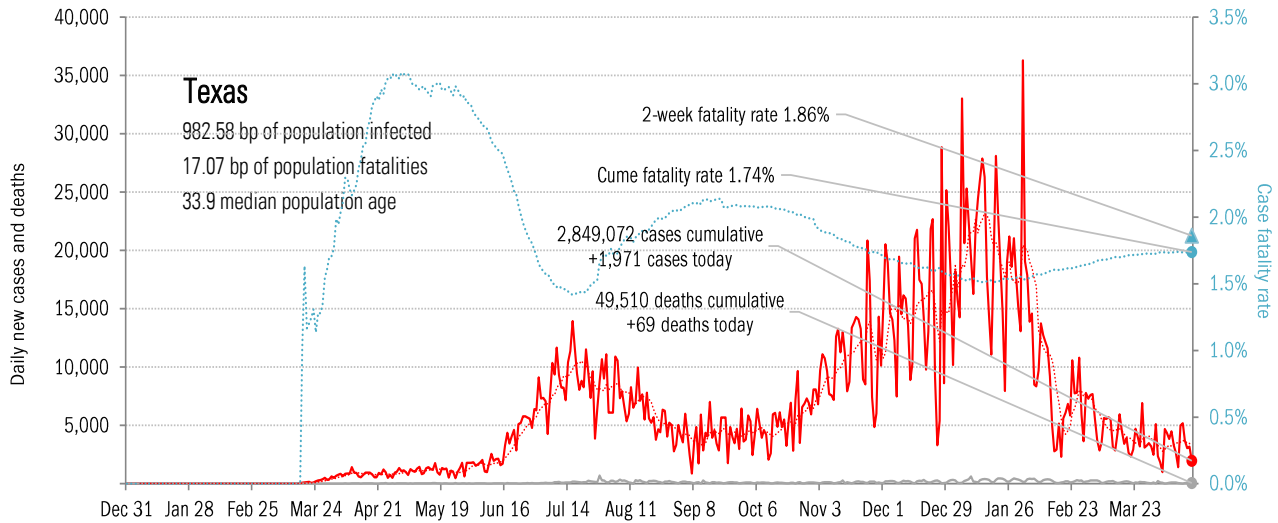
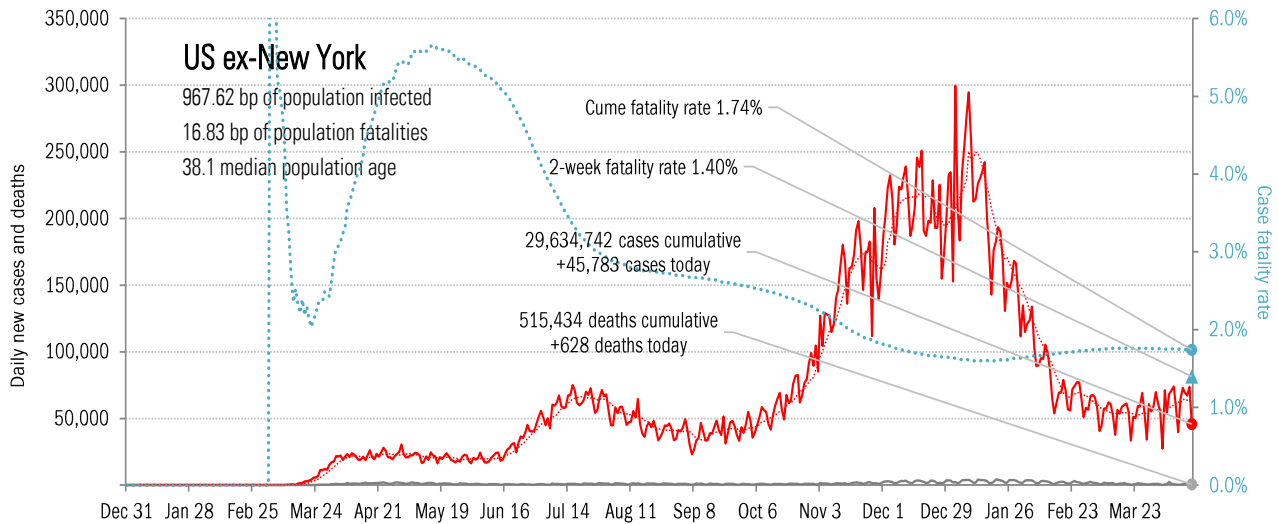
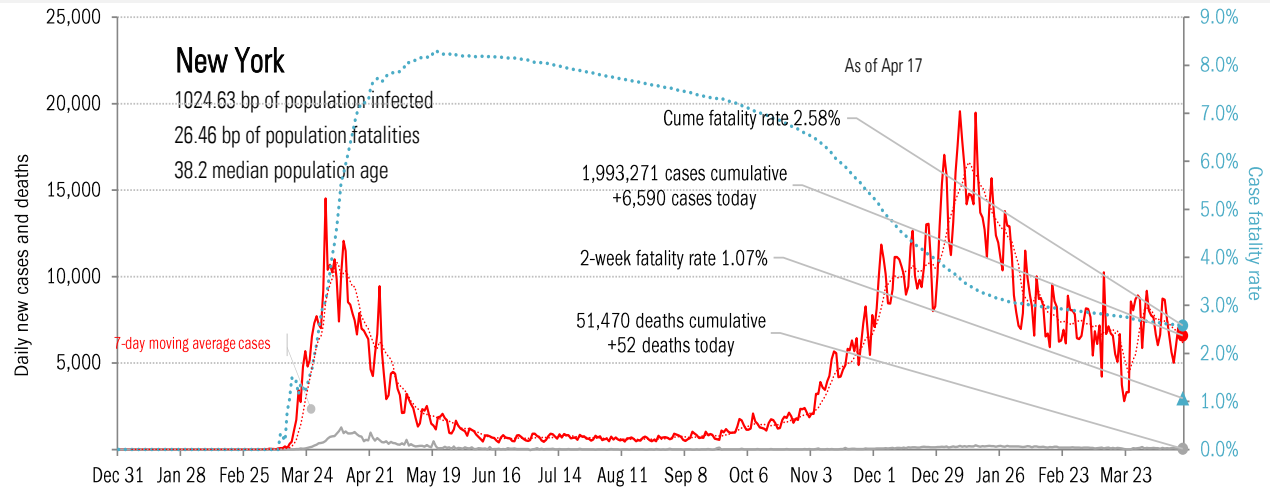
14-day moving average, last 14 days *Most recent value displayed* ● High ● Low

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



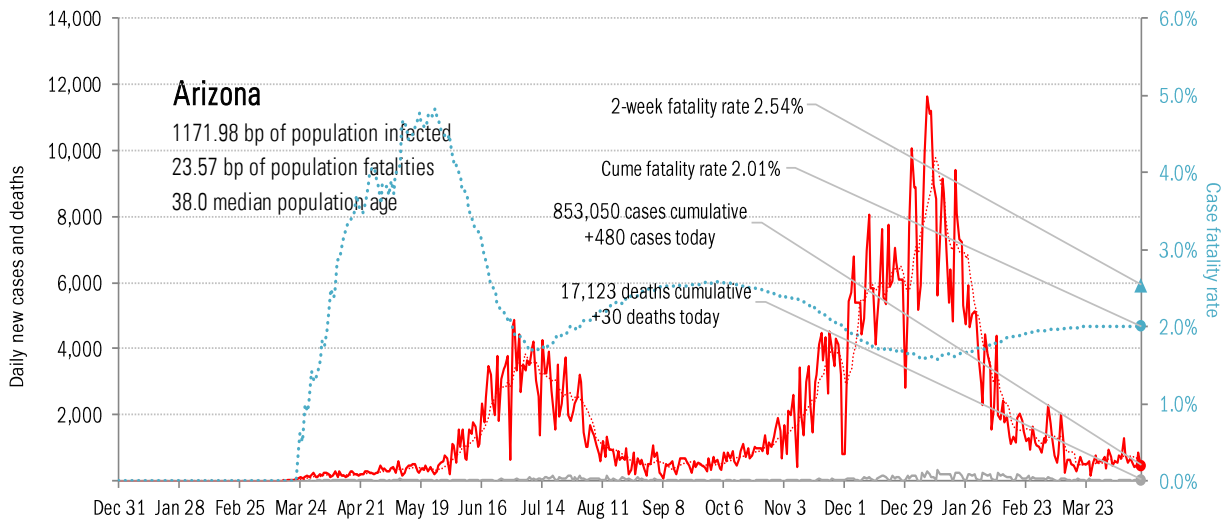
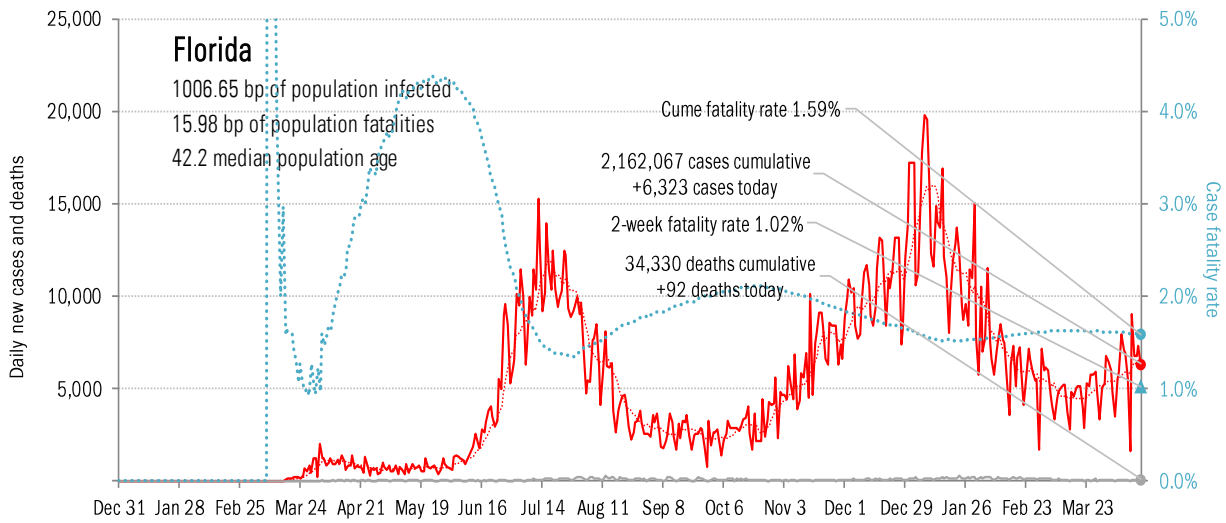
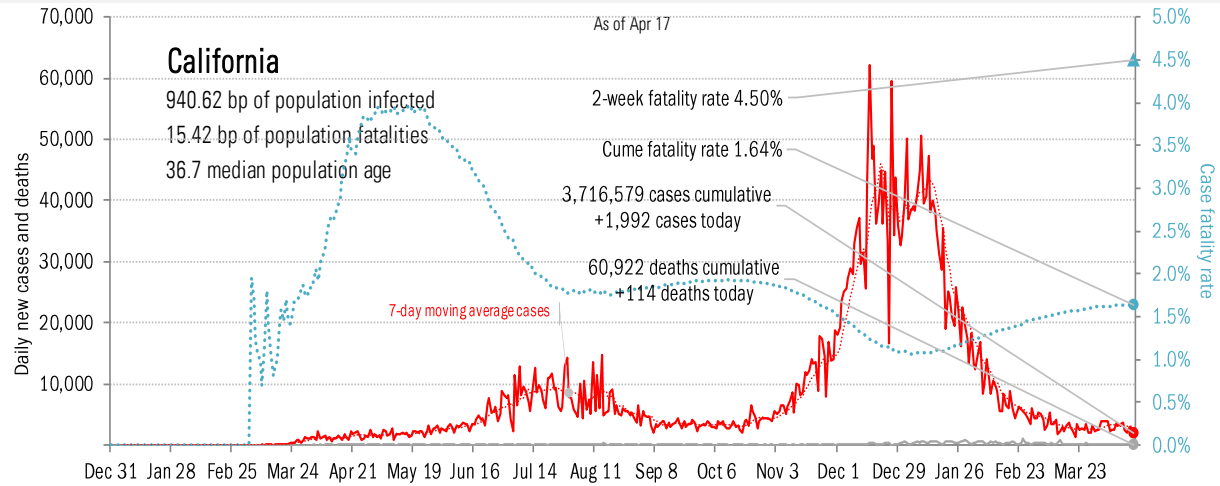
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



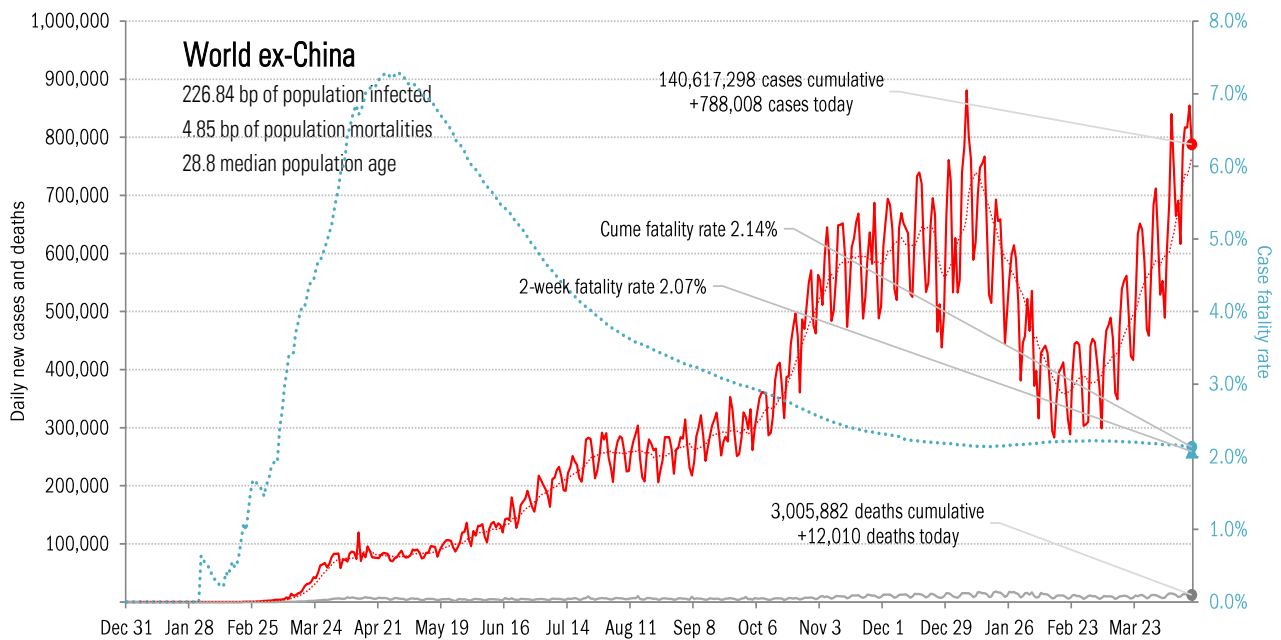
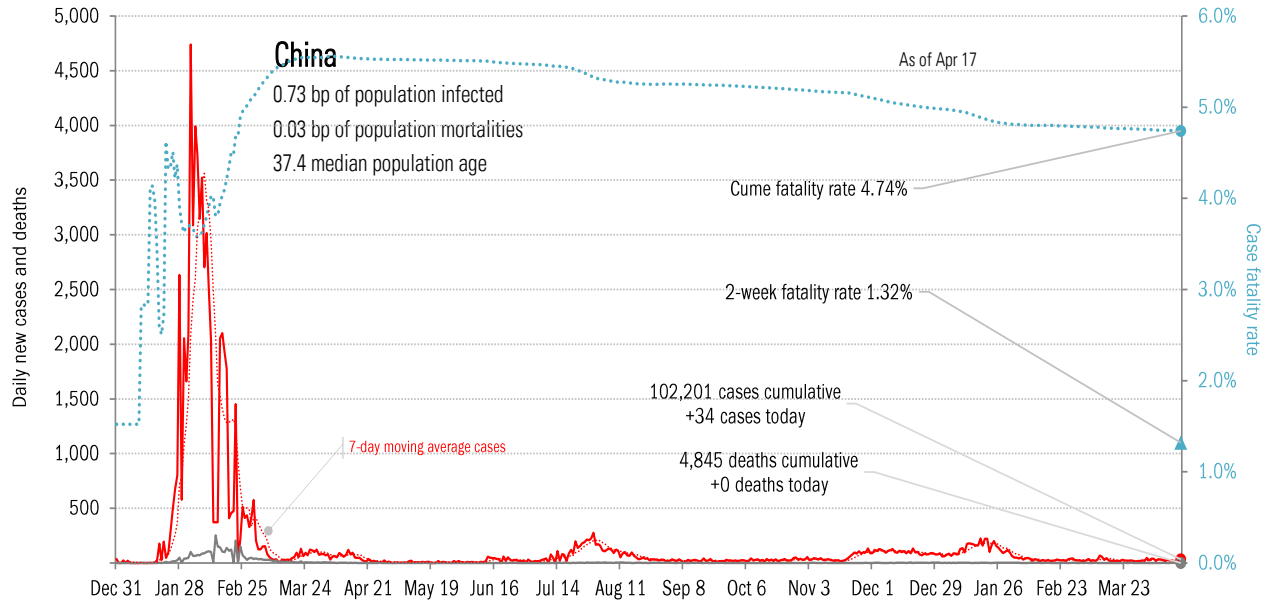
Source: [Johns Hopkins](#), TrendMacro calculations

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



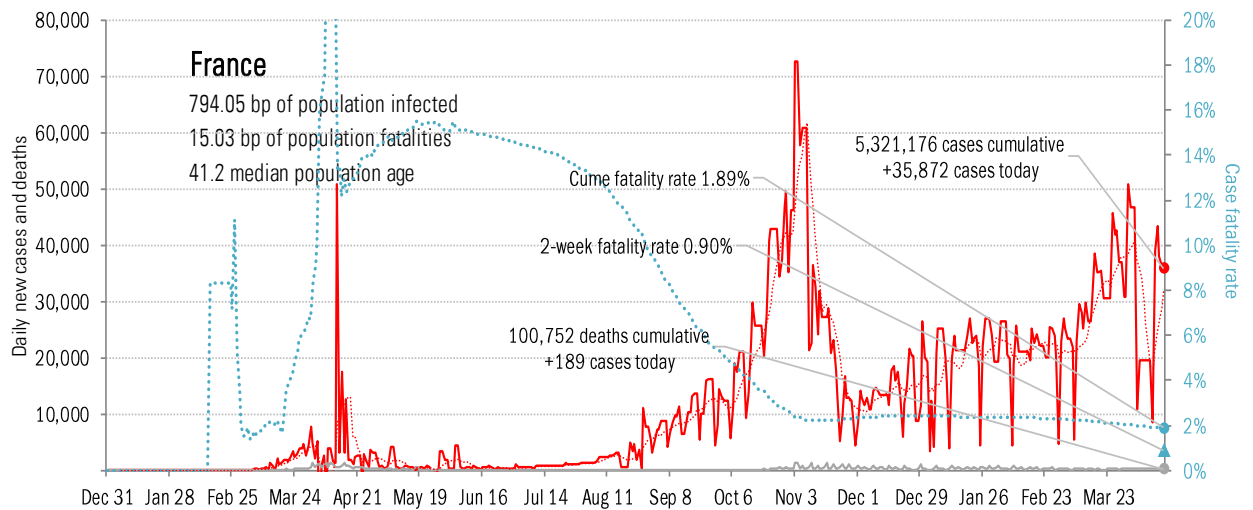
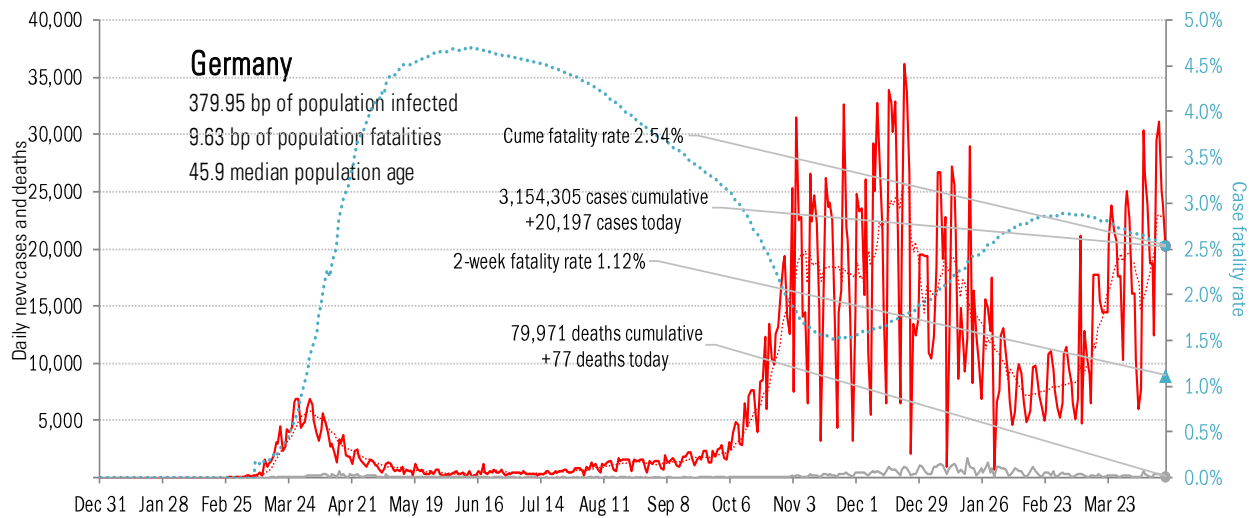
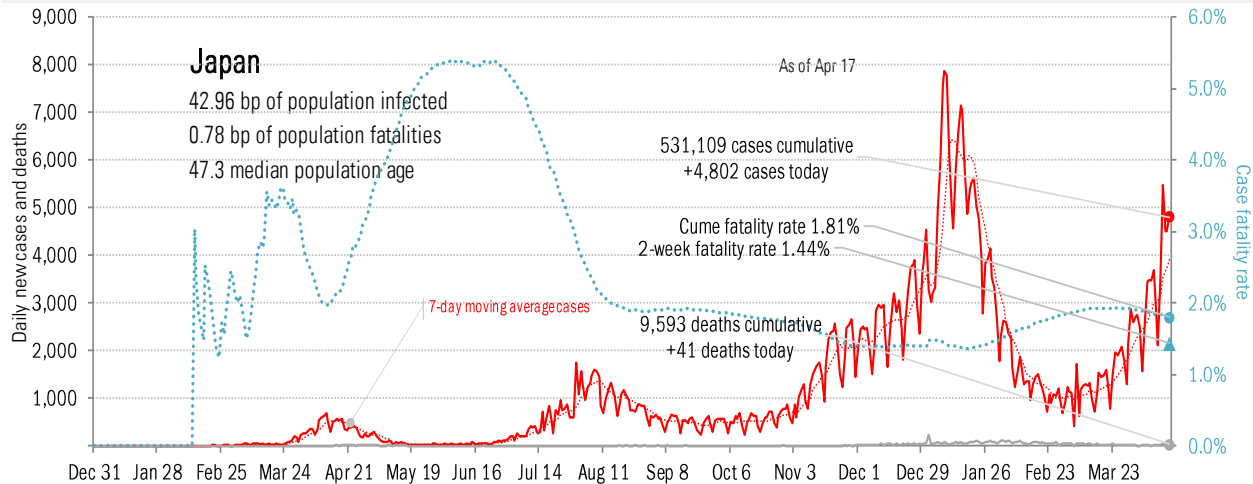
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



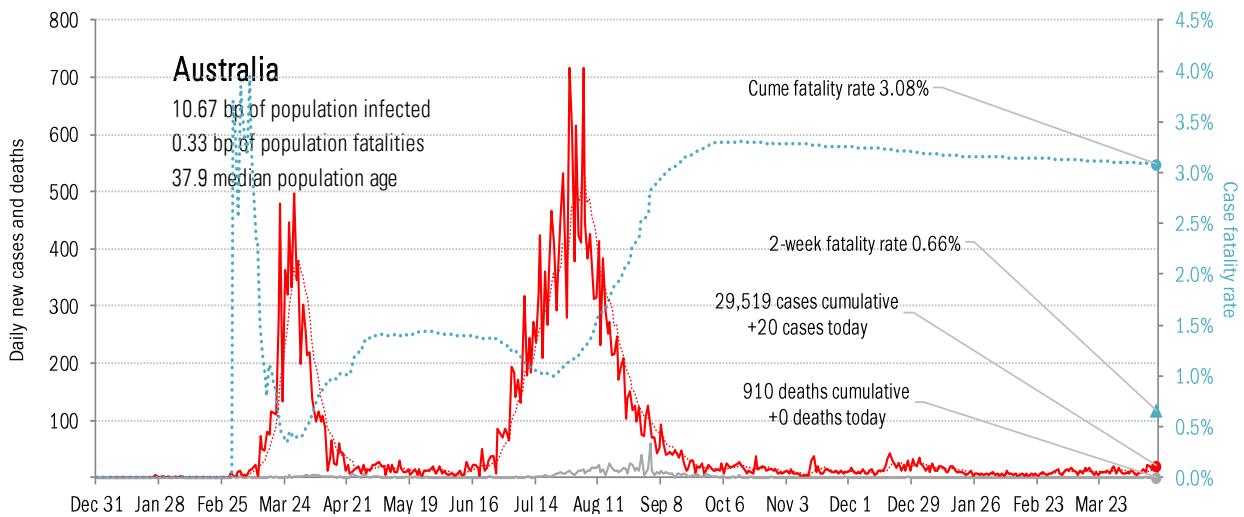
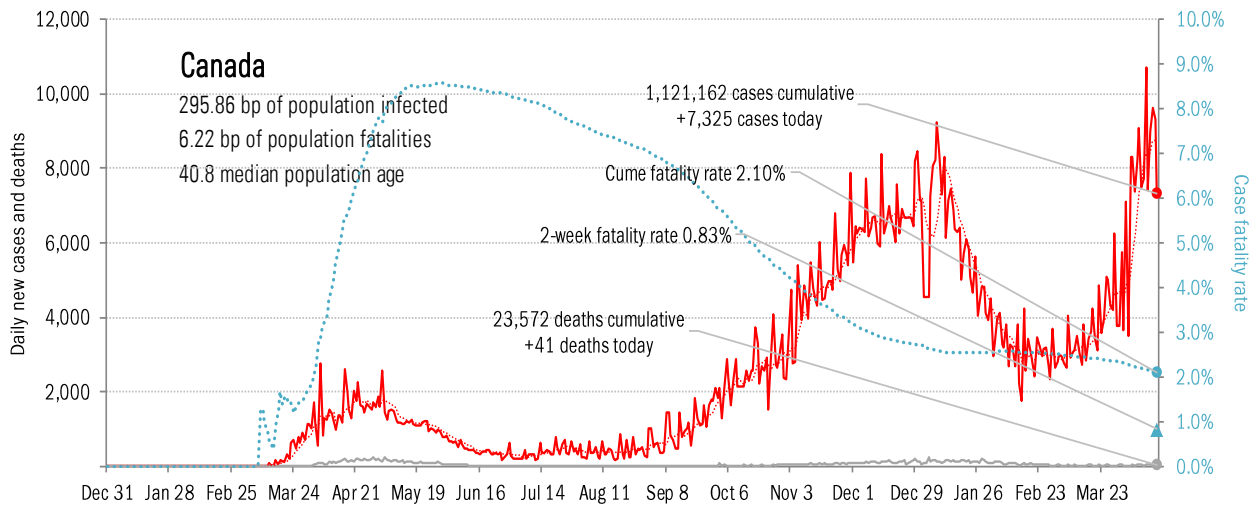
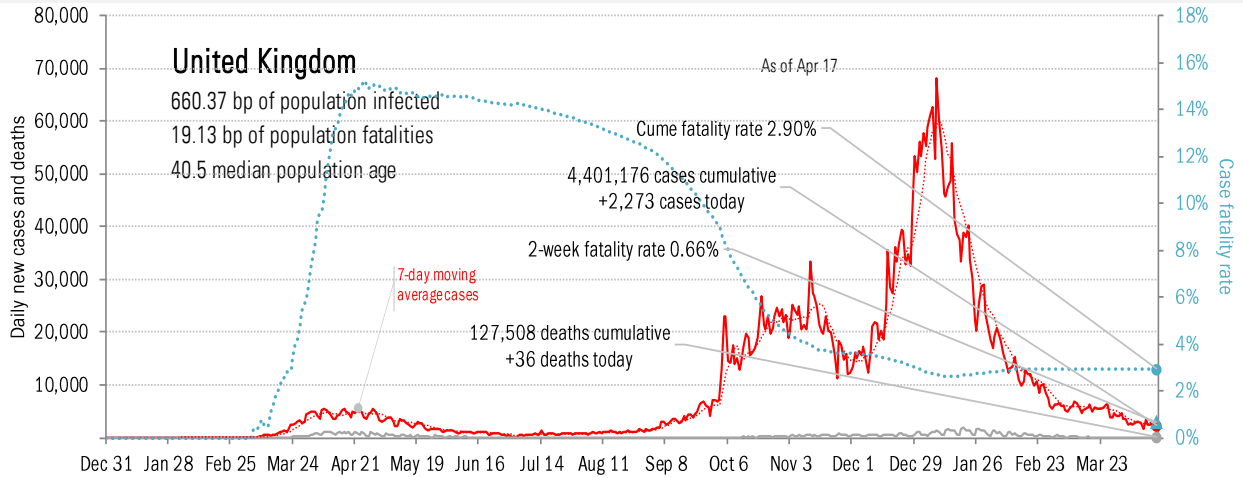
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



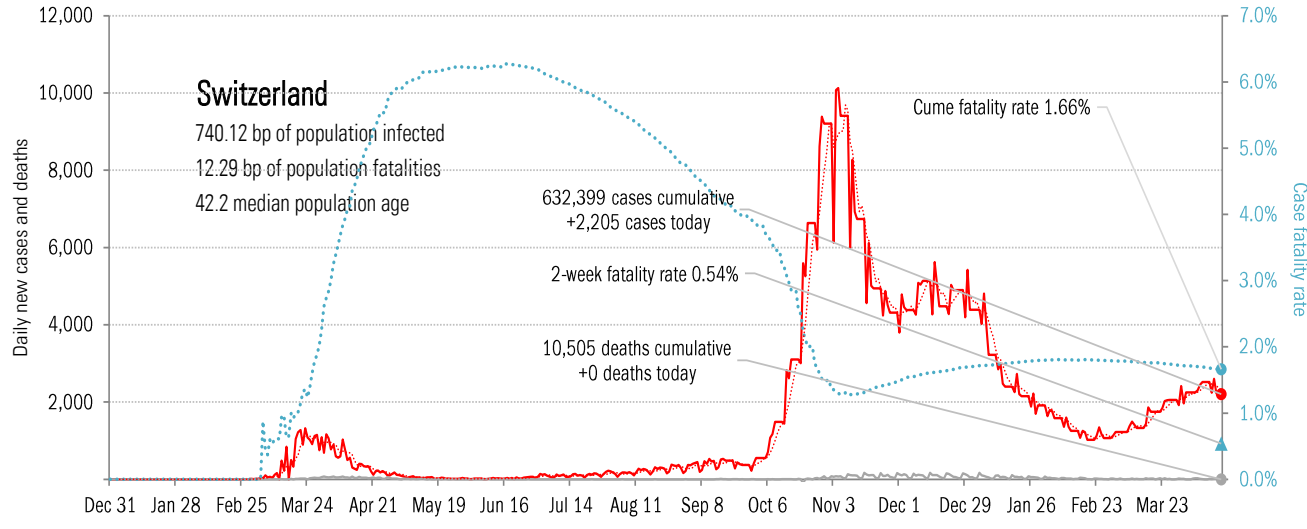
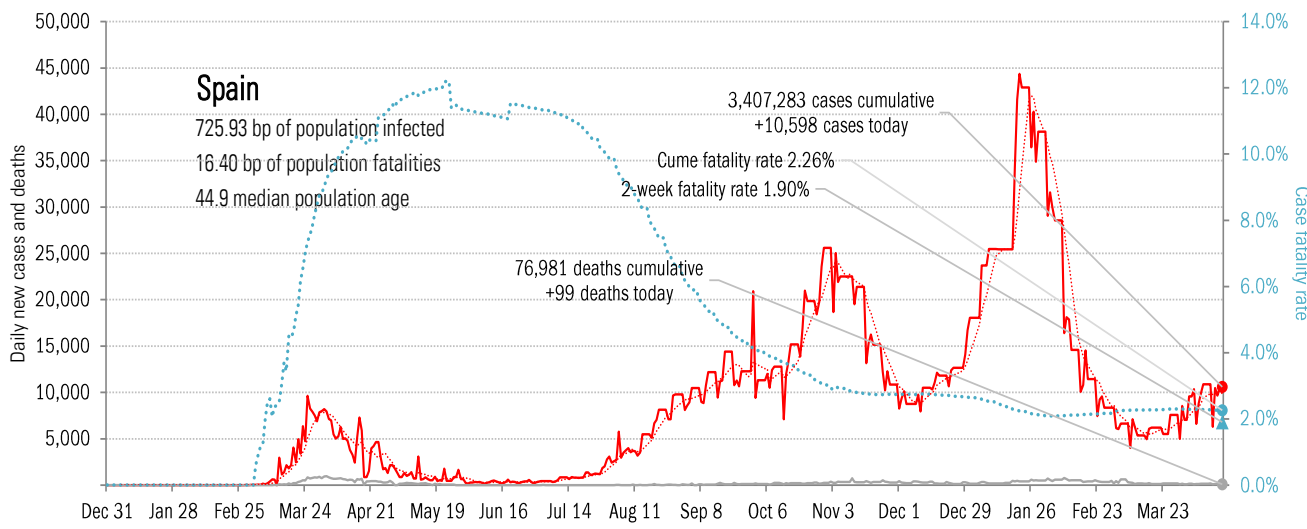
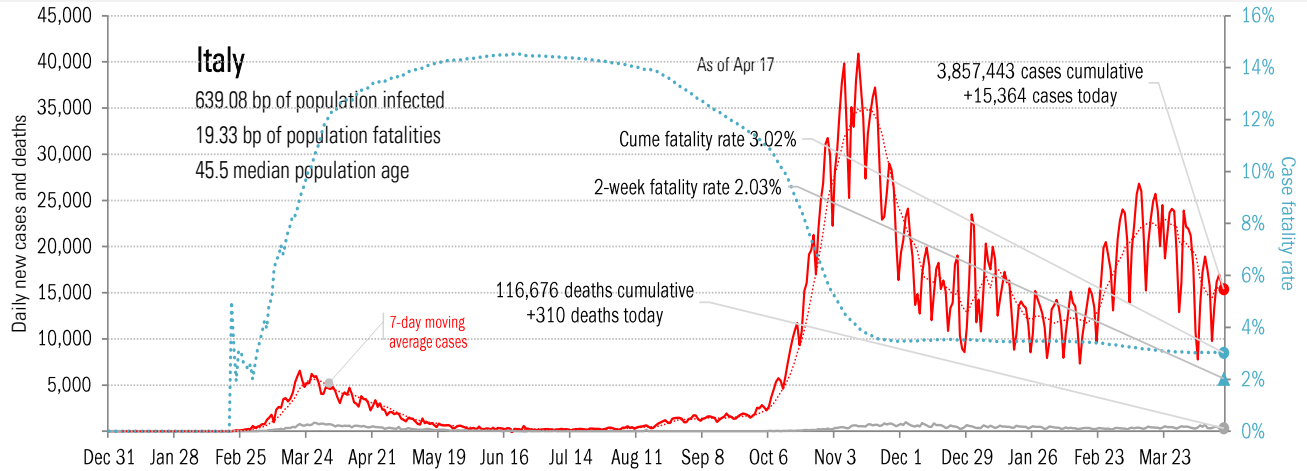
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



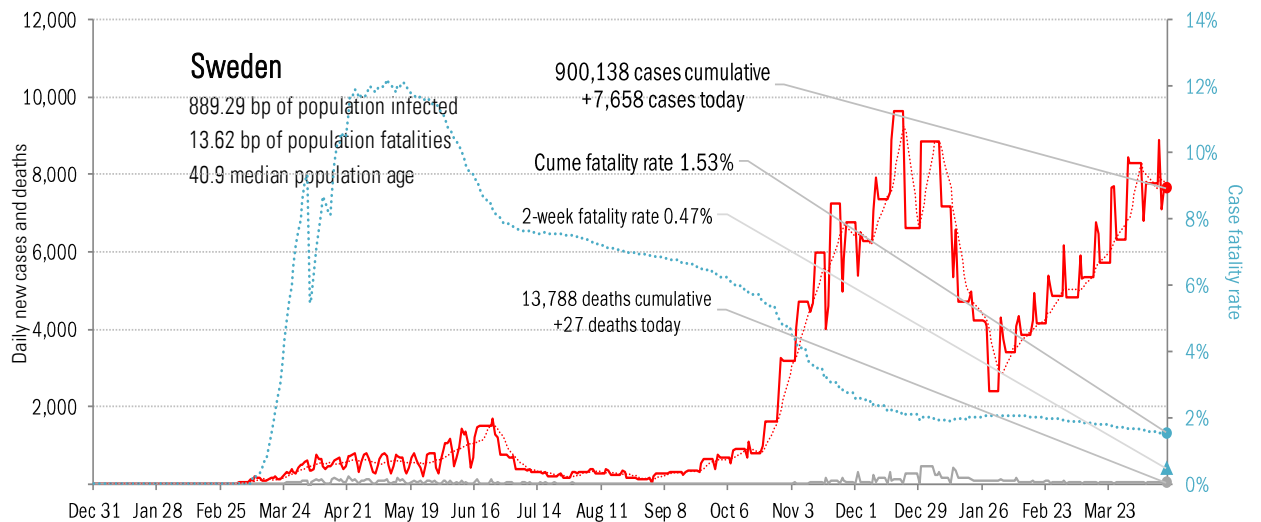
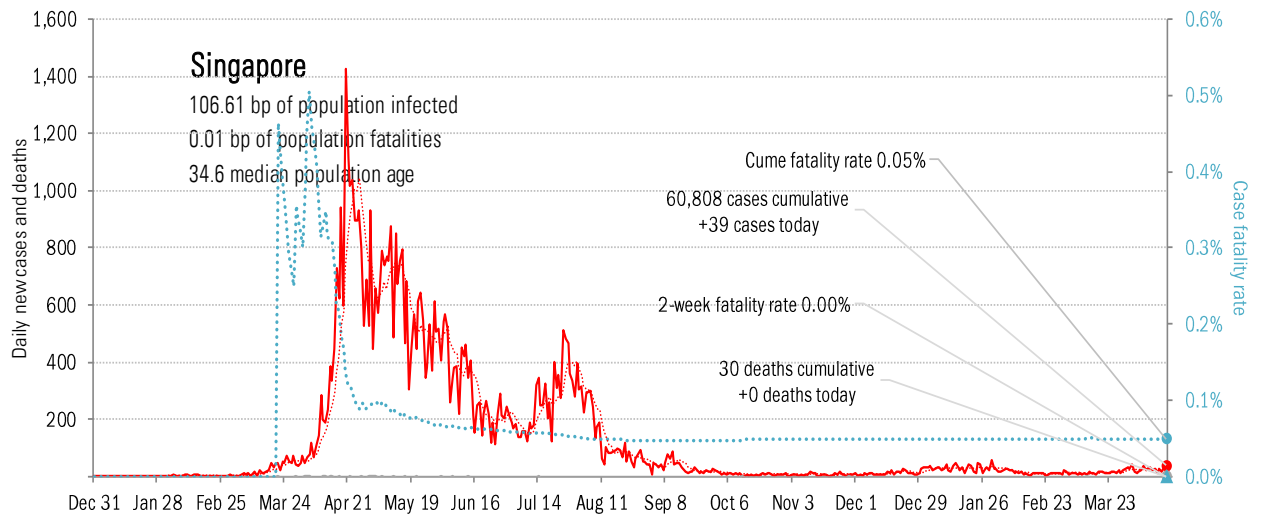
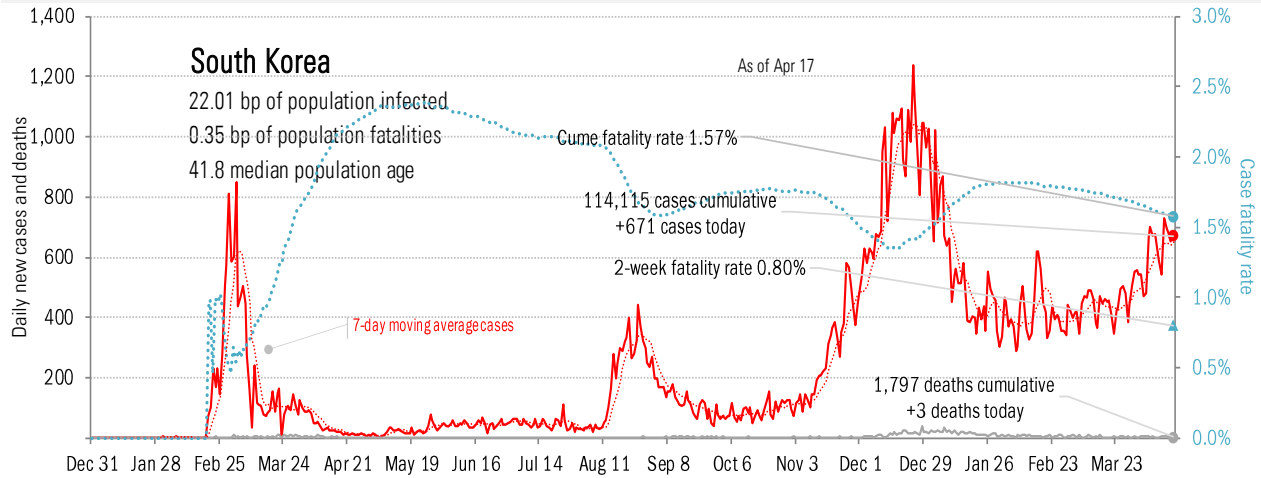
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



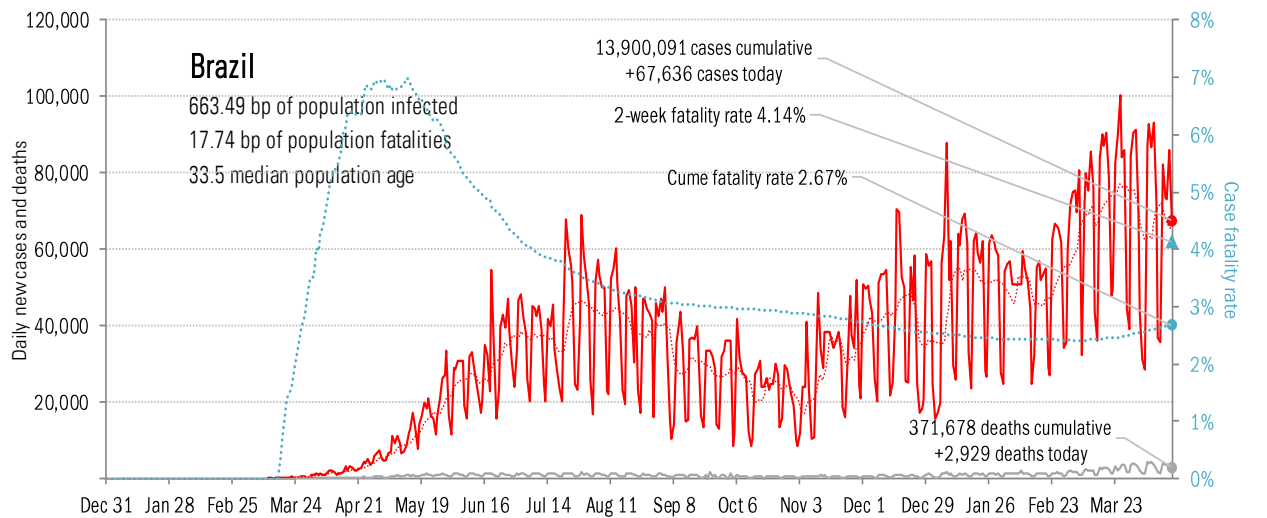
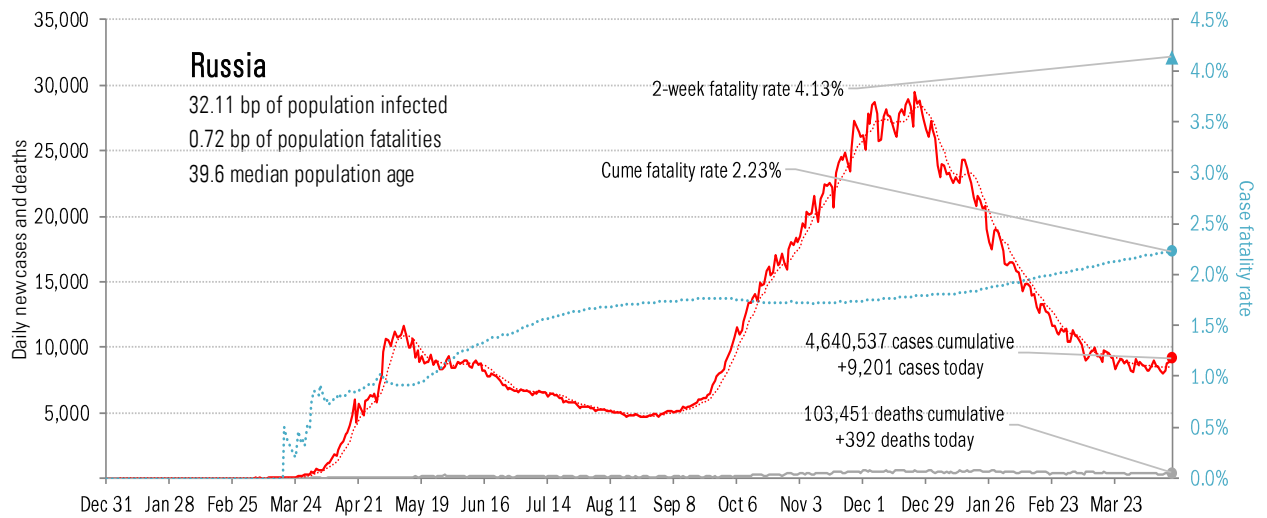
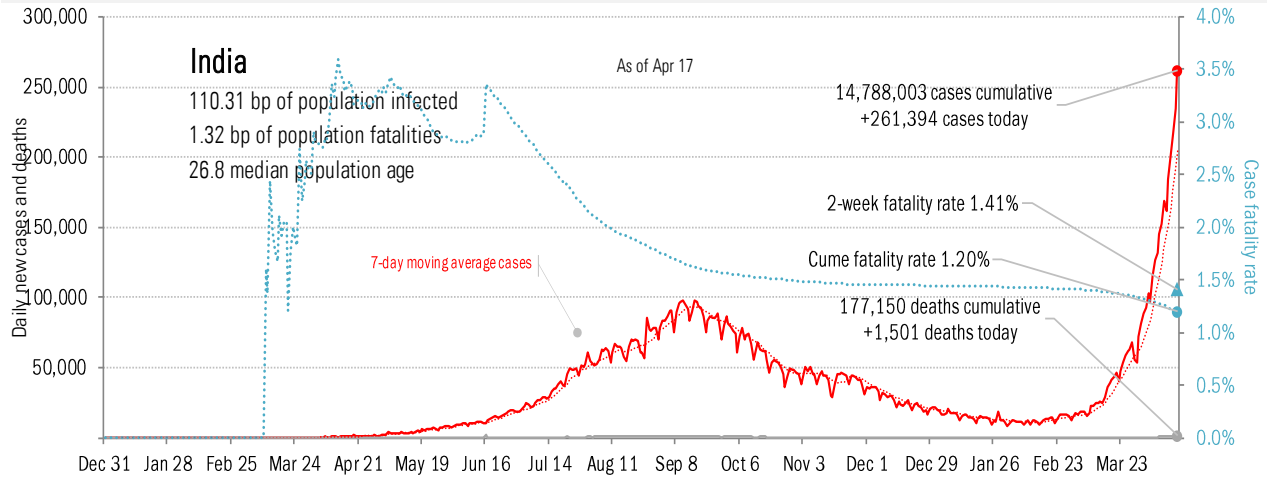
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



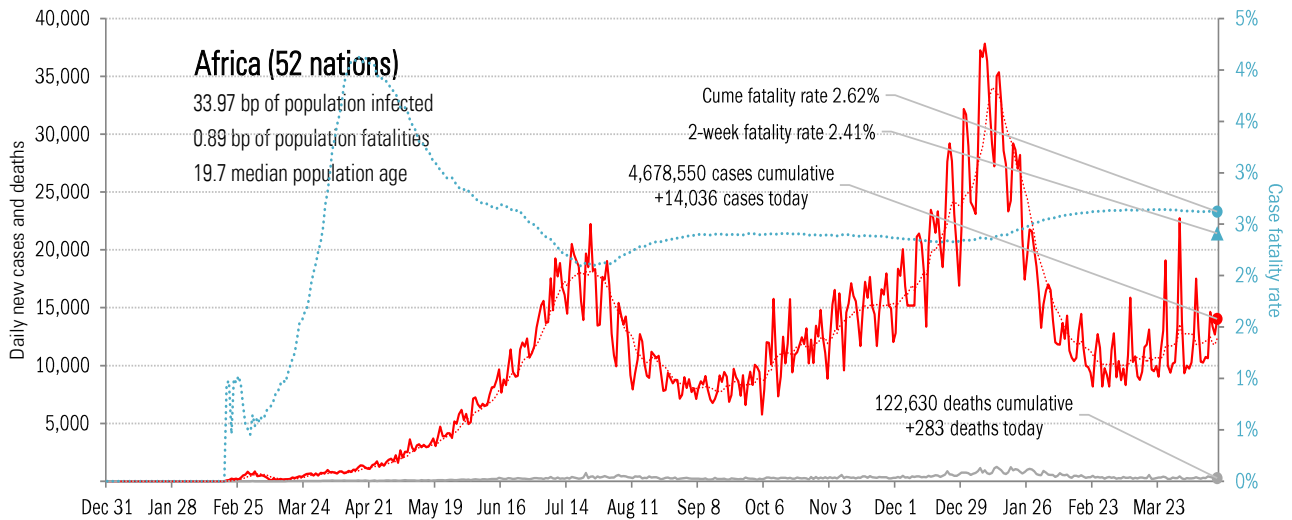
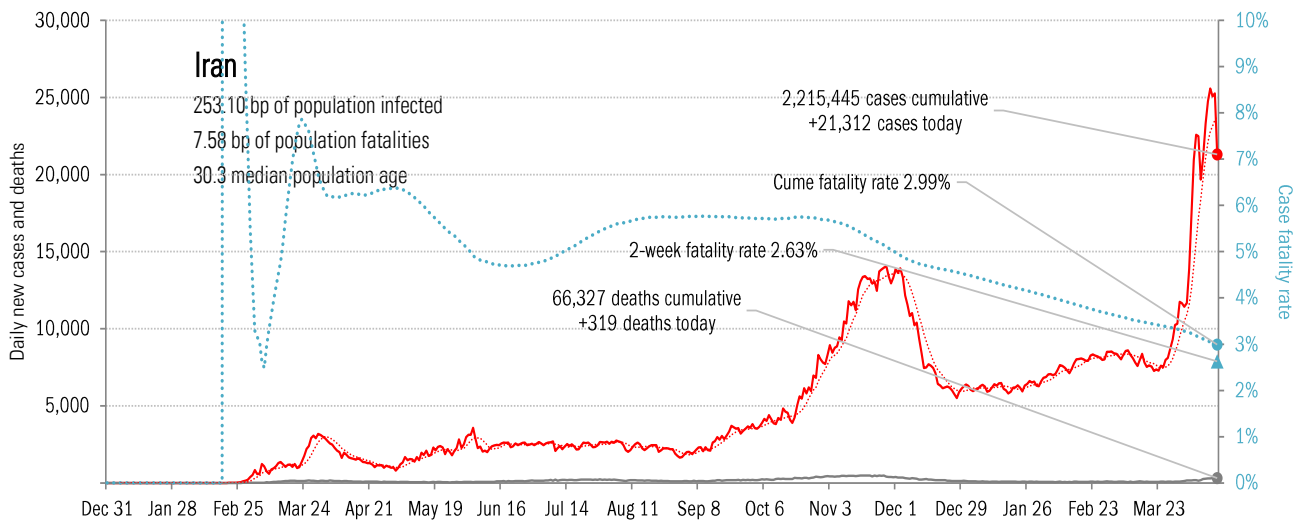
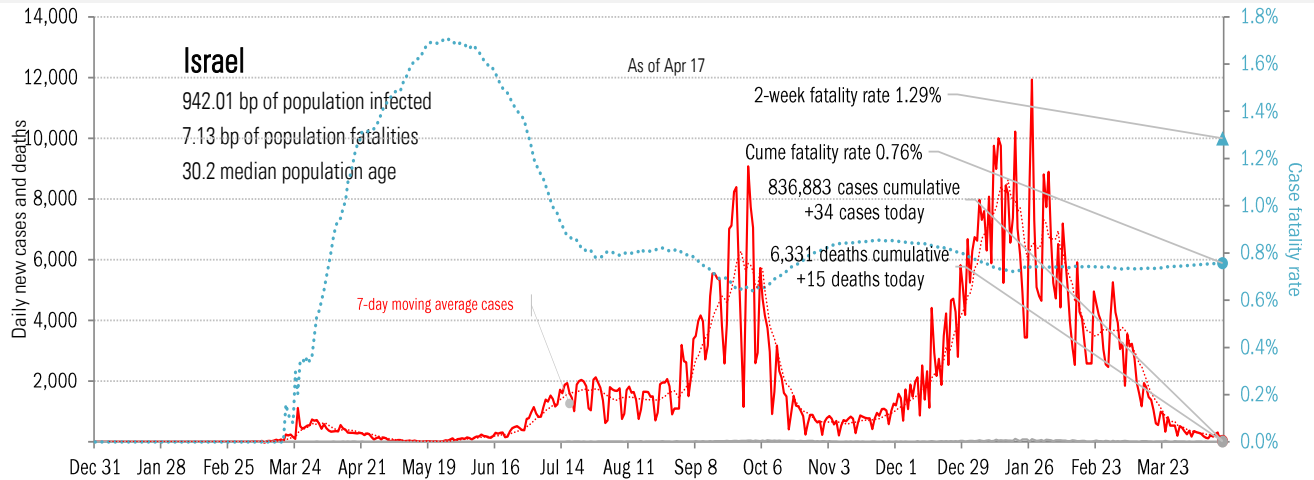
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



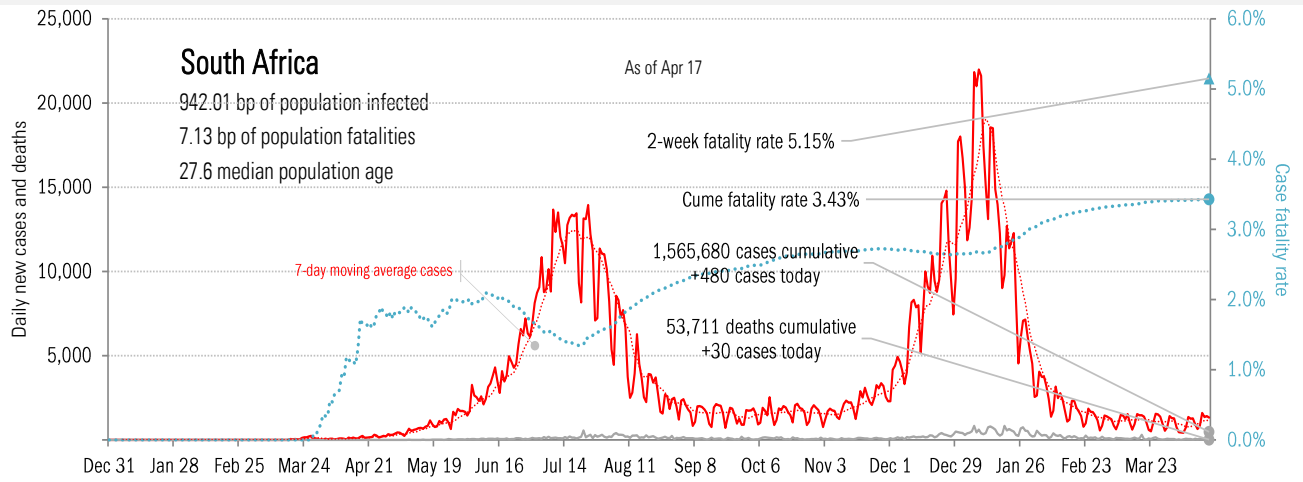
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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