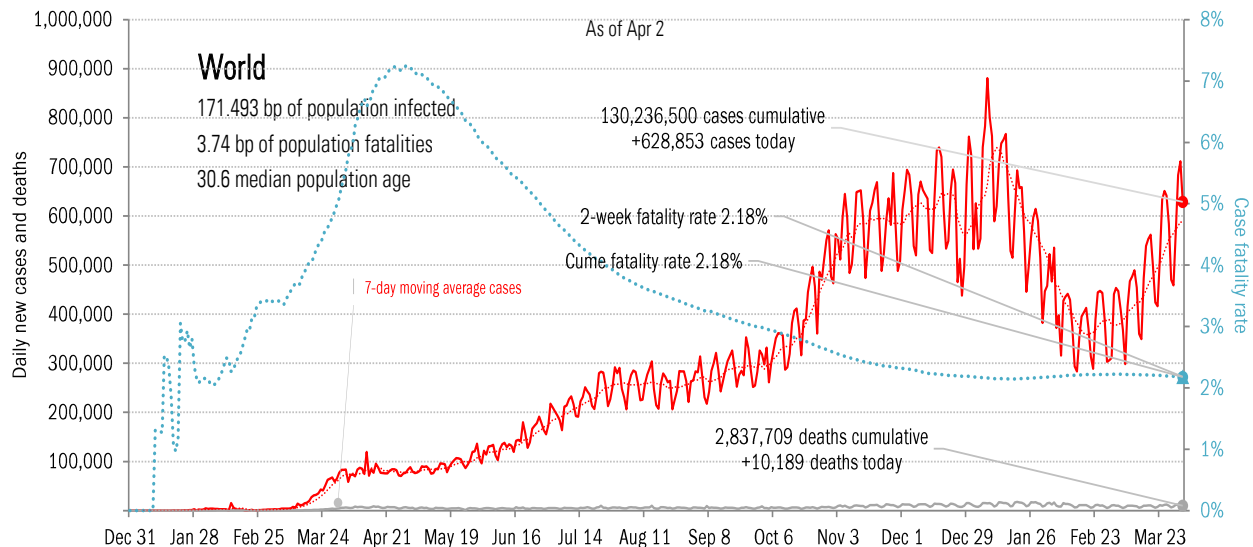
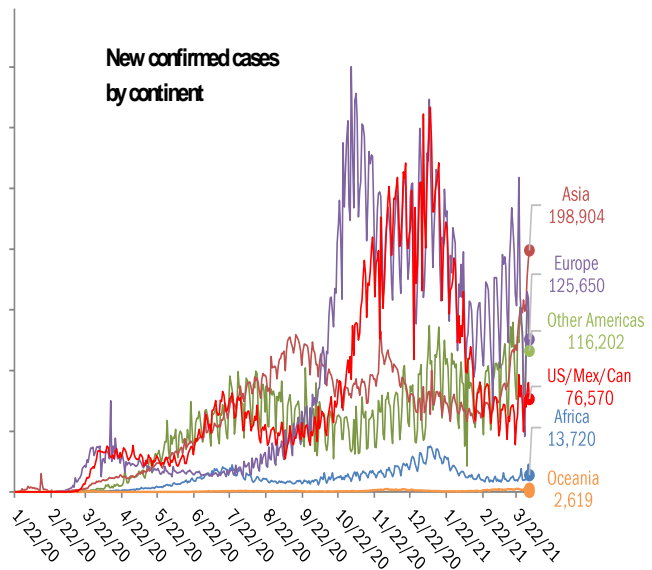


Data Insights: Covid-2019 Monitor

Saturday, April 3, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+89,129	Brazil	+2,922
Brazil	+70,238	United States	+967
United States	+69,822	India	+714
France	+46,678	Poland	+500
Turkey	+42,308	Italy	+481
Poland	+30,541	Ukraine	+441
Italy	+21,917	Russia	+392
Ukraine	+20,003	France	+332
Germany	+16,033	Hungary	+267
Philippines	+15,298	Mexico	+190
+421,967		+7,206	
World +628,853		World +10,189	
Topten 67%		Topten 71%	



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

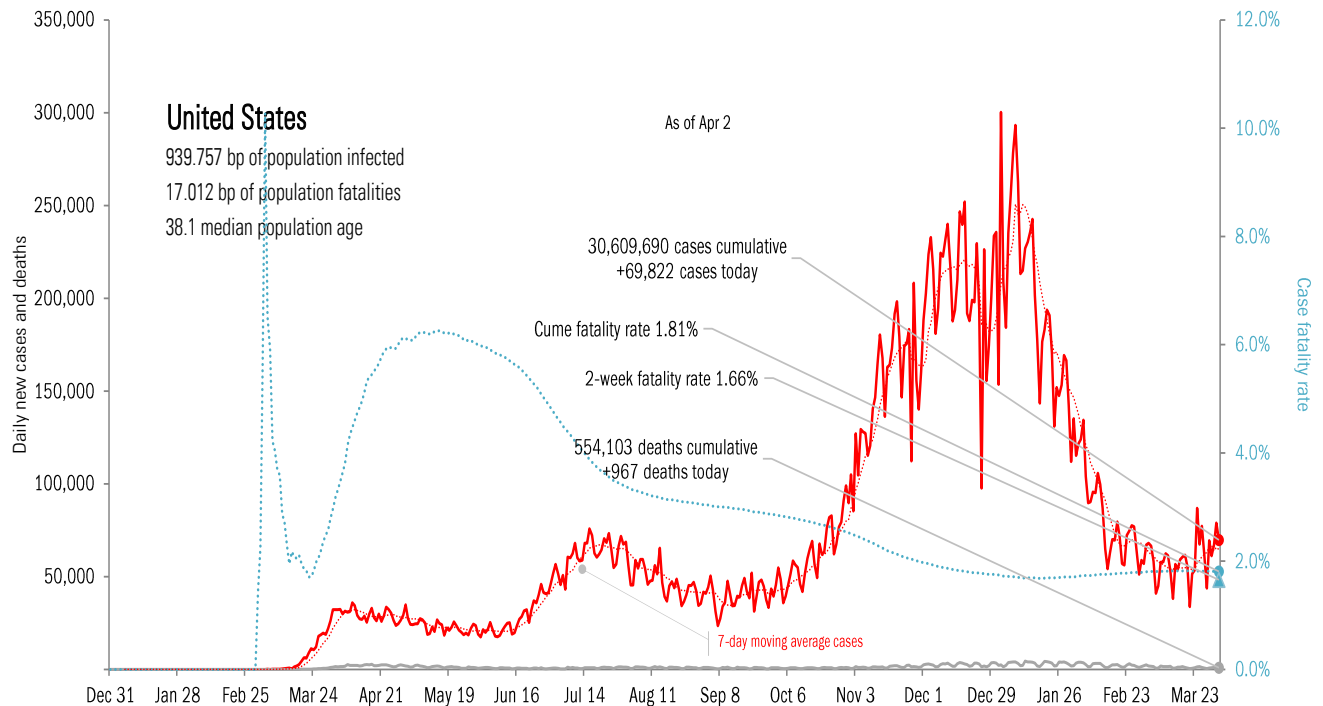
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
NY	+8,038		CA	+203		FL	+95		CA	3,675,191		CA	59,614		TX	225,358		R	94%	MD	20%
FL	+6,490		TX	+104		MI	+84		TX	2,799,375		NY	50,458		CA	221,896		MA	83%	NY	19%
MI	+6,151		FL	+92		NY	+74		FL	2,071,015		TX	48,599		FL	150,903		MD	82%	MI	16%
NJ	+4,529		NY	+83		MD	+39		NY	1,890,346		FL	33,586		NY	113,540		CT	81%	ID	14%
PA	+4,017		GA	+57		CH	+37		IL	1,251,255		PA	25,135		GA	94,220		PA	79%	MS	14%
CA	+3,842		AL	+54		GA	+28		GA	1,062,555		NJ	24,615		CH	75,069		MI	79%	TX	14%
IL	+3,234		CH	+34		NJ	+26		PA	1,035,559		IL	23,626		PA	73,163		MO	78%	GA	13%
MN	+2,536		MA	+32		CO	+20		CH	1,021,718		GA	19,176		KY	67,976		GA	78%	WV	13%
MA	+2,440		IL	+25		IN	+20		NJ	918,951		CH	18,643		IL	67,956		FL	78%	NJ	13%
TX	+2,365		NJ	+24		TN	+19		NC	916,159		MA	17,249		AZ	58,156		NC	77%	DC	12%
+43,642			+708			+442			16,642,124			320,701			1,148,237						
All states	+69,822		+967			+295			All states	30,609,690		554,103			2,041,448			All states	70%	67%	
Top ten	63%		73%			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	
TX	-2,735	TX	-139	AL	-80	NY	+181 bp
NC	-2,027	MI	-35	PA	-75	WV	+110 bp
TN	-1,772	NC	-24	CA	-56	ND	+100 bp
NY	-1,132	SC	-23	NC	-32	ME	+87 bp
NJ	-1,077	LA	-20	MA	-25	R	+79 bp



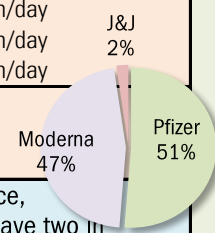
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

US overall	Over last day	Share pop full immunization
213.85 million doses distributed	+4.35 million/day	United States 17.3%
164.09 million doses administered	+4.07 million/day	United Kingdom 7.3%
105.36 million persons partially immunized	+2.28 million/day	France 4.3%
60.44 million persons fully immunized	+1.94 million/day	Spain 6.0%
7.74 million shots long-term care residents/staff	+0.00 million/day	Germany 5.0%
		Italy 5.6%
		Australia 0.6%
		Israel 55.5%
		Canada 1.9%
		Japan 0.1%
		Africa 0.3%
		India 0.7%
		Brazil 2.1%

76.7% of distributed doses administered
 31.5% of US pop partial
 100% of LTC partial

18.1% full immunity
 63.5% full immunity



At today's dosing pace, every American will have two in

121 days
by Jul 31, 2021

US will achieve herd immunity in
41 days
by May 13, 2021

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

AK
86.0%
34.5%
22.9%

ME
65.7%
36.0%
21.1%

WI
59.2%
33.3%
19.7%

VT	NH
70.5%	60.9%
34.7%	37.5%
19.9%	18.6%

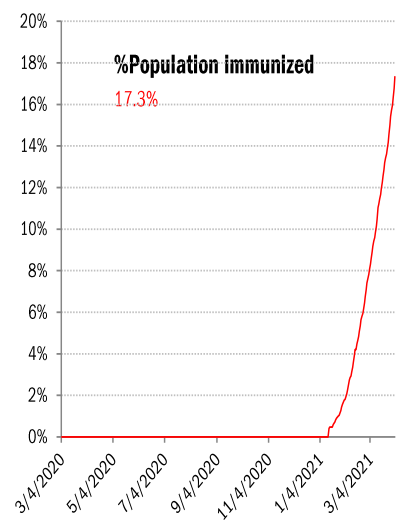
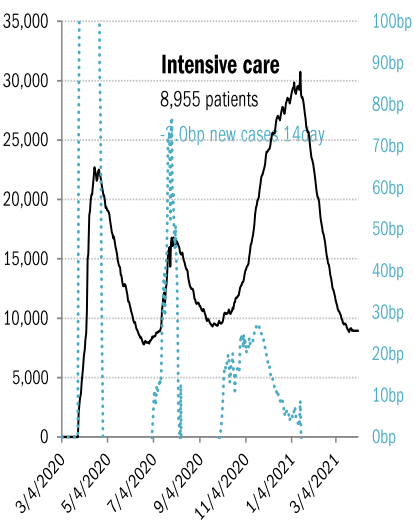
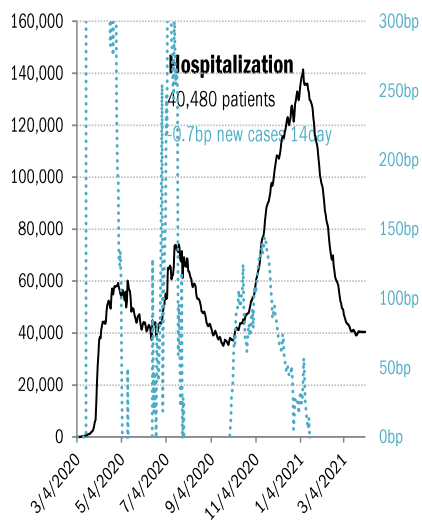
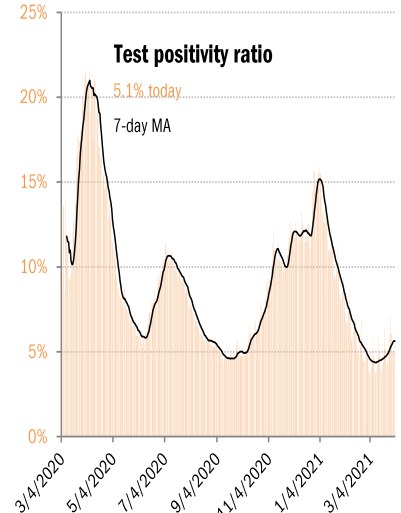
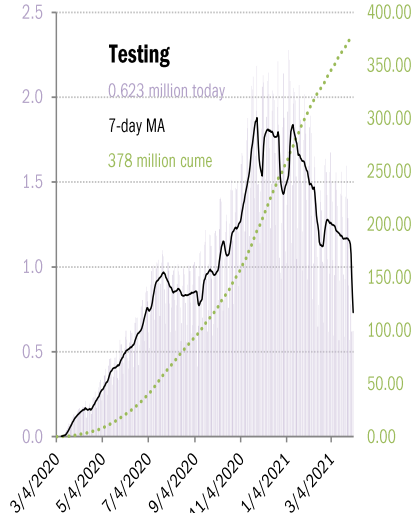
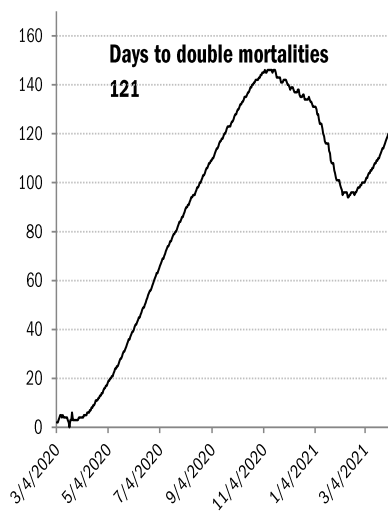
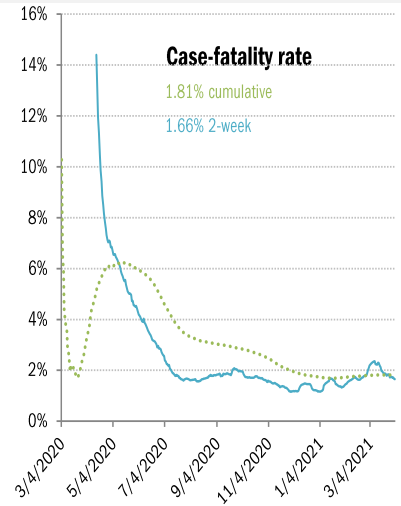
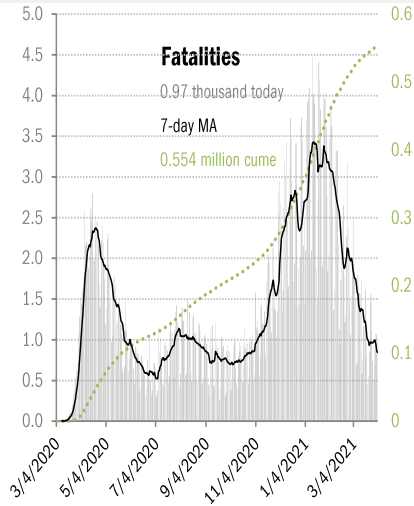
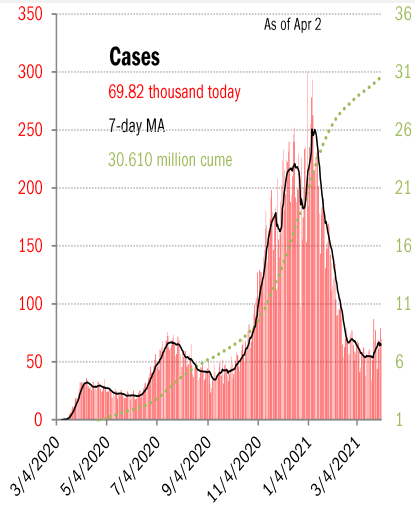
WA	ID	MT	ND	MN	IL	MI	NY	MA		
61.6%	56.9%	65.8%	64.3%	58.9%	62.9%	59.8%	64.0%	64.7%		
31.0%	26.7%	31.8%	33.7%	32.6%	32.4%	29.8%	32.3%	35.7%		
19.0%	17.2%	20.2%	21.6%	19.9%	17.2%	17.9%	19.1%	20.0%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
59.8%	57.2%	68.2%	72.7%	60.7%	53.7%	62.1%	61.7%	61.4%	71.8%	64.4%
29.5%	28.7%	27.9%	36.0%	32.0%	26.3%	30.3%	33.5%	34.9%	36.7%	34.0%
17.5%	16.7%	18.9%	23.4%	20.2%	17.4%	17.7%	17.6%	20.2%	21.5%	22.2%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
63.0%	53.4%	61.1%	63.3%	61.1%	60.1%	65.4%	59.4%	62.4%	64.7%	
32.0%	26.5%	31.1%	32.4%	26.8%	32.0%	31.1%	32.8%	32.6%	32.7%	
16.8%	11.9%	18.3%	19.9%	16.3%	18.5%	20.5%	18.0%	18.4%	17.2%	
AZ	NM	KS	AR	TN	NC	SC	DC			
62.1%	71.8%	64.4%	60.9%	59.8%	62.2%	58.6%	76.9%			
30.7%	39.5%	31.9%	27.3%	26.2%	29.8%	28.3%	28.7%			
17.8%	24.8%	17.8%	14.9%	14.6%	17.2%	15.8%	14.7%			
OK	LA	MS	AL	GA						
70.2%	62.2%	60.7%	58.6%	58.2%						
32.1%	27.1%	25.2%	24.7%	25.1%						
19.0%	17.3%	15.8%	14.1%	12.8%						
HI	TX	FL	PR							
71.0%	57.8%	63.2%	65.3%							
32.6%	27.0%	29.0%	23.4%							
20.1%	15.0%	16.7%	13.6%							

As of Apr 2

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

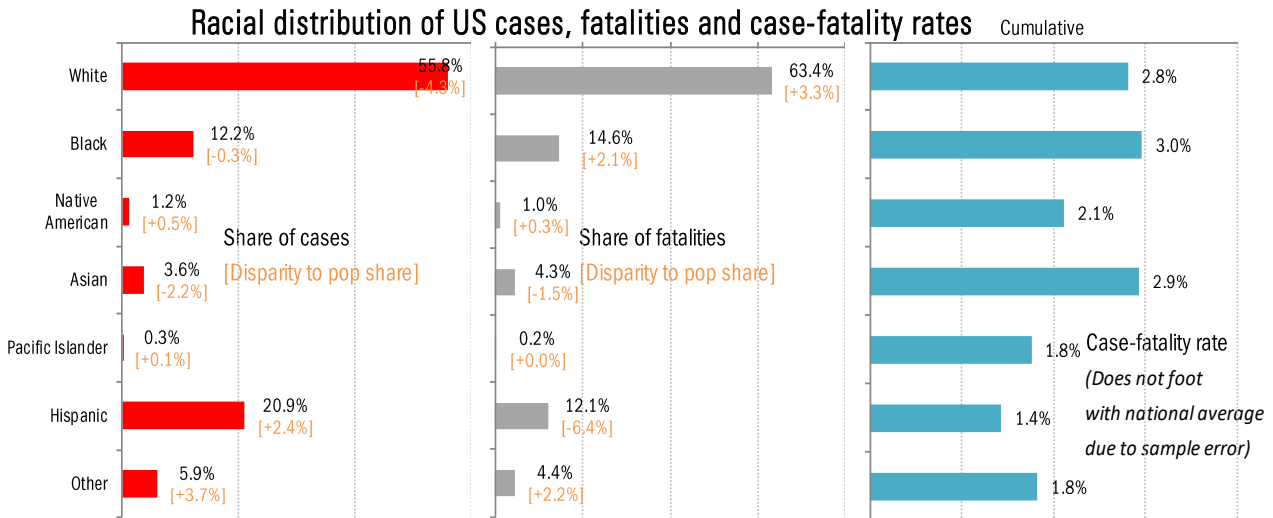
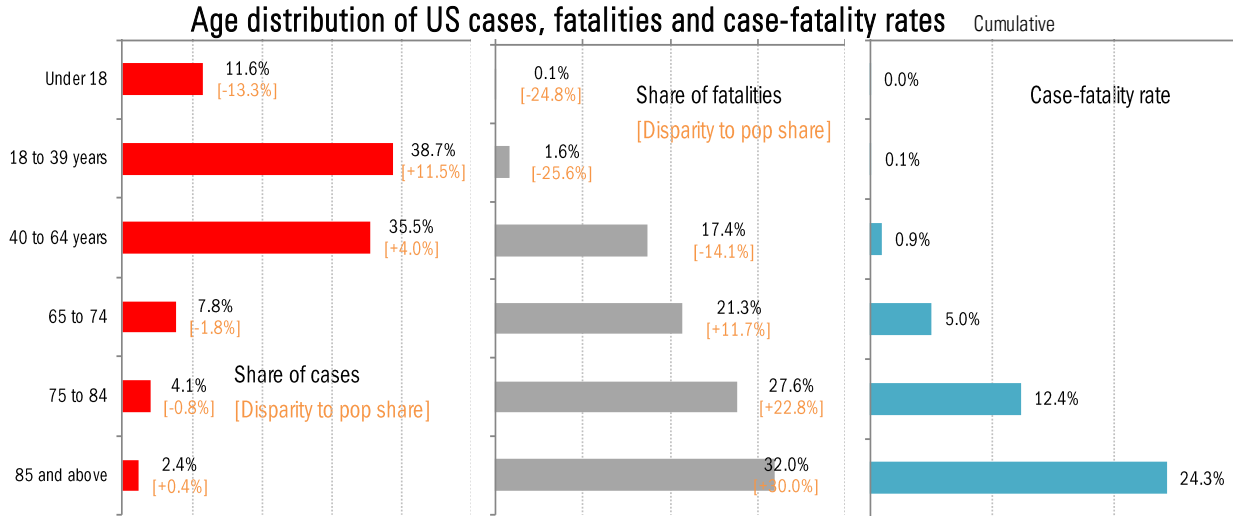
US deep-dive

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

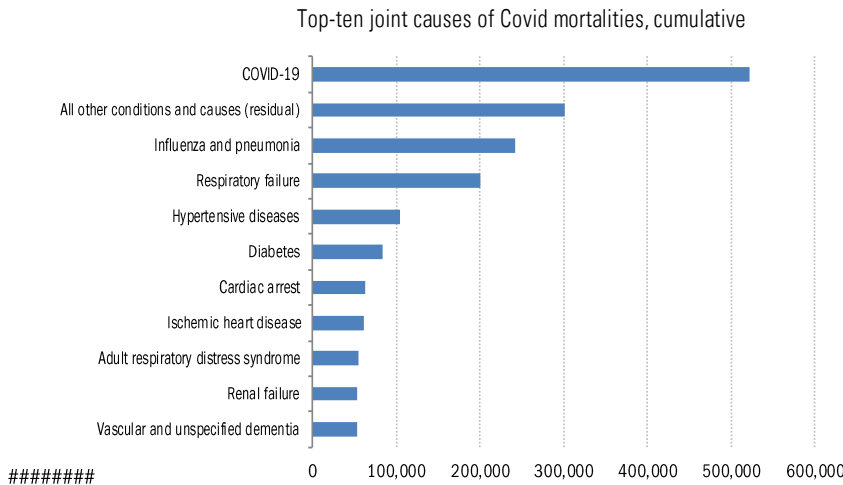


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

[The Vaccine Jobs Boom Arrives](#)

Wall Street Journal

April 2, 2021

[The Zero Covid strategy protects people and economies more effectively](#)

Cécile Philippe & Nicolas Marques

Institut économique Molinari

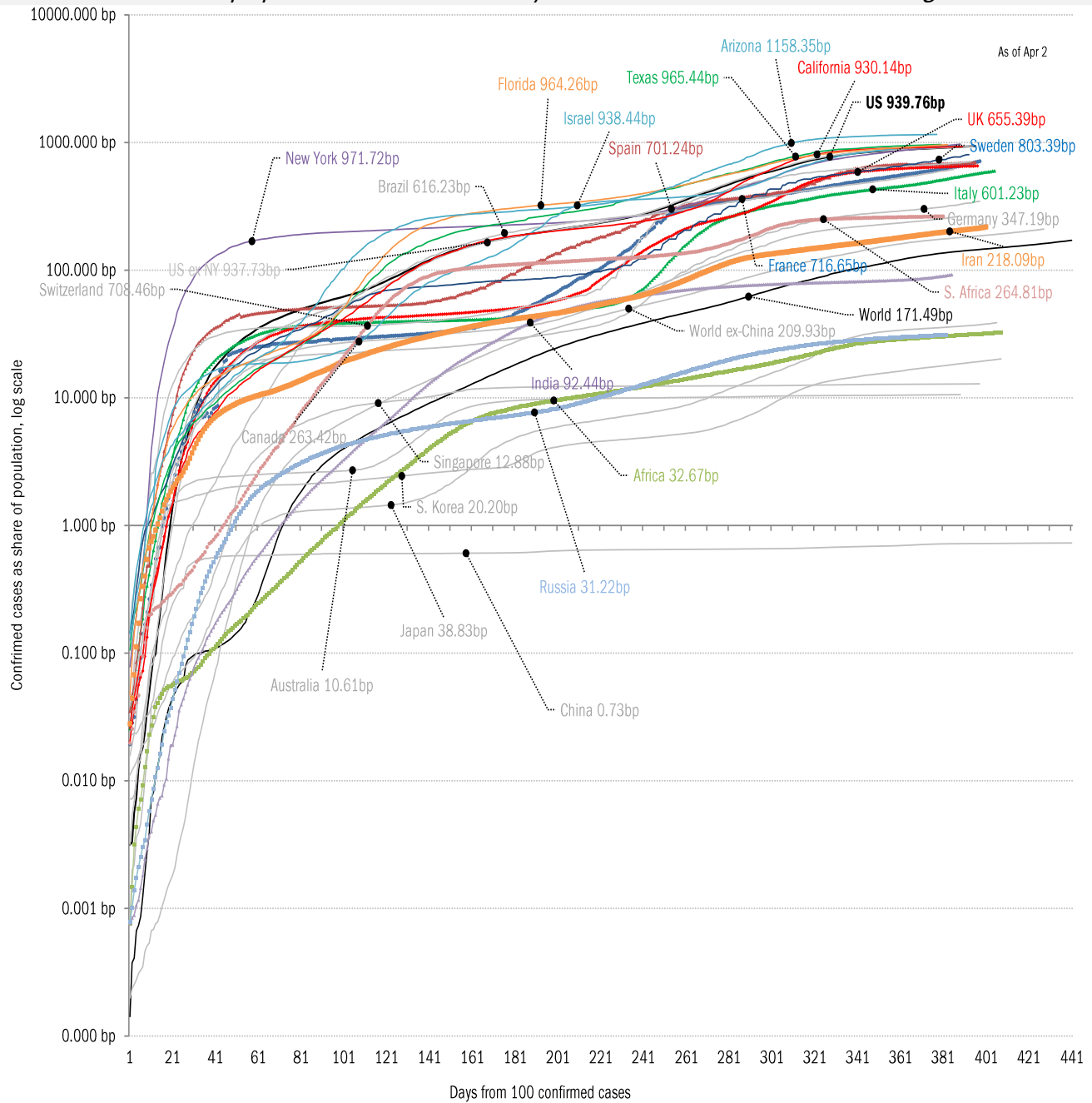
April 2021

Meme of day



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

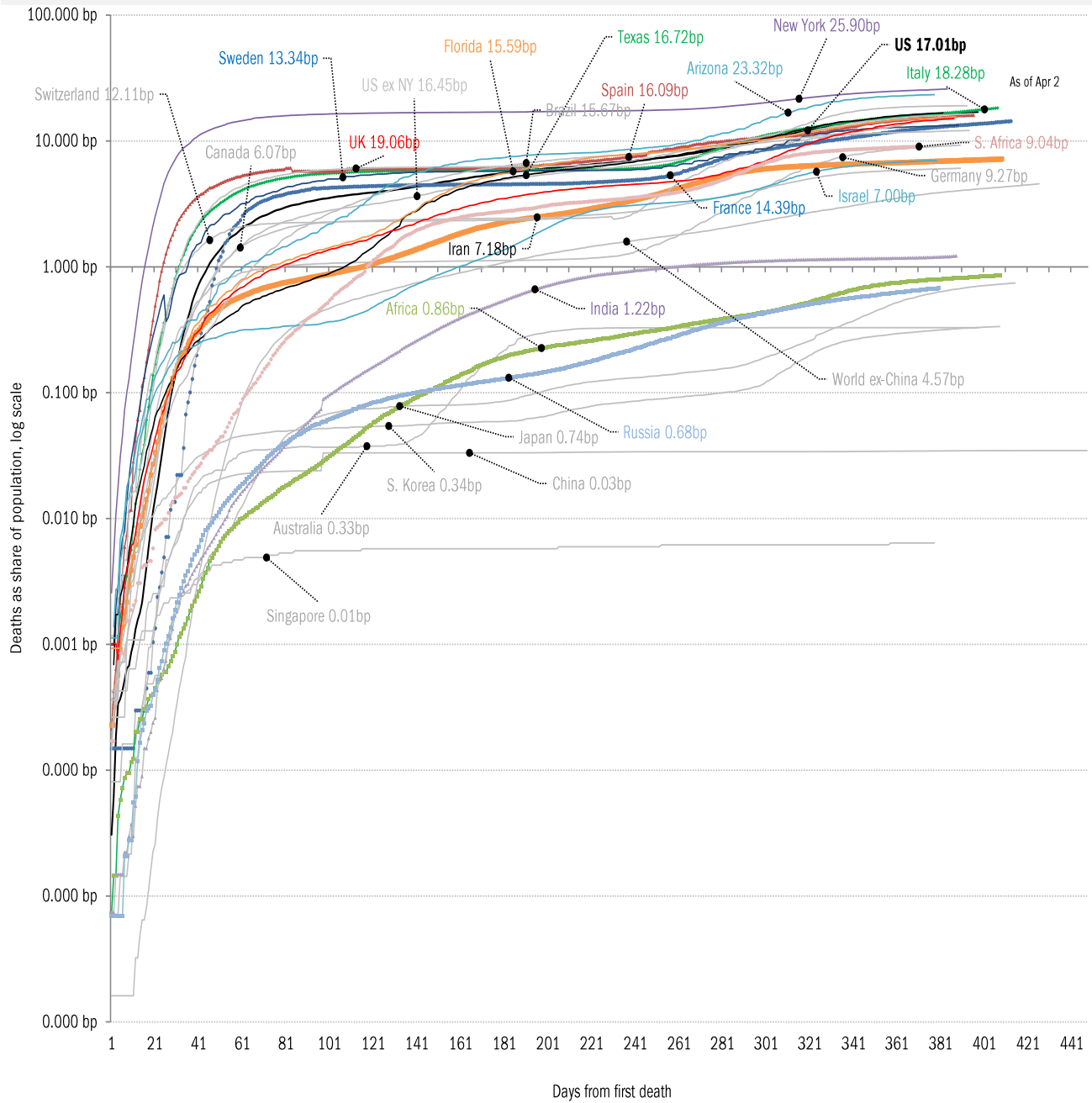
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

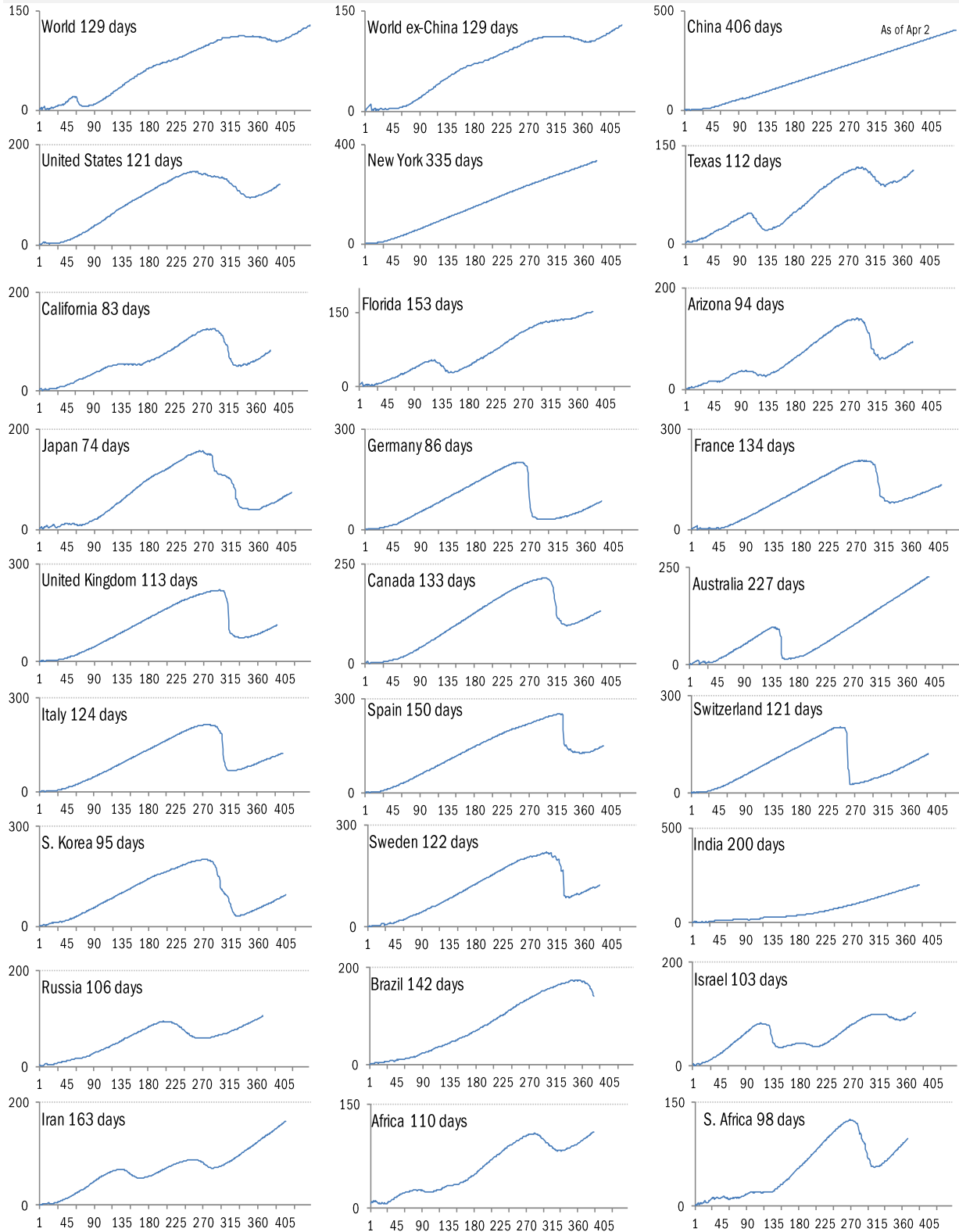


Source: [Johns Hopkins](#), TrendMacro calculations

"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

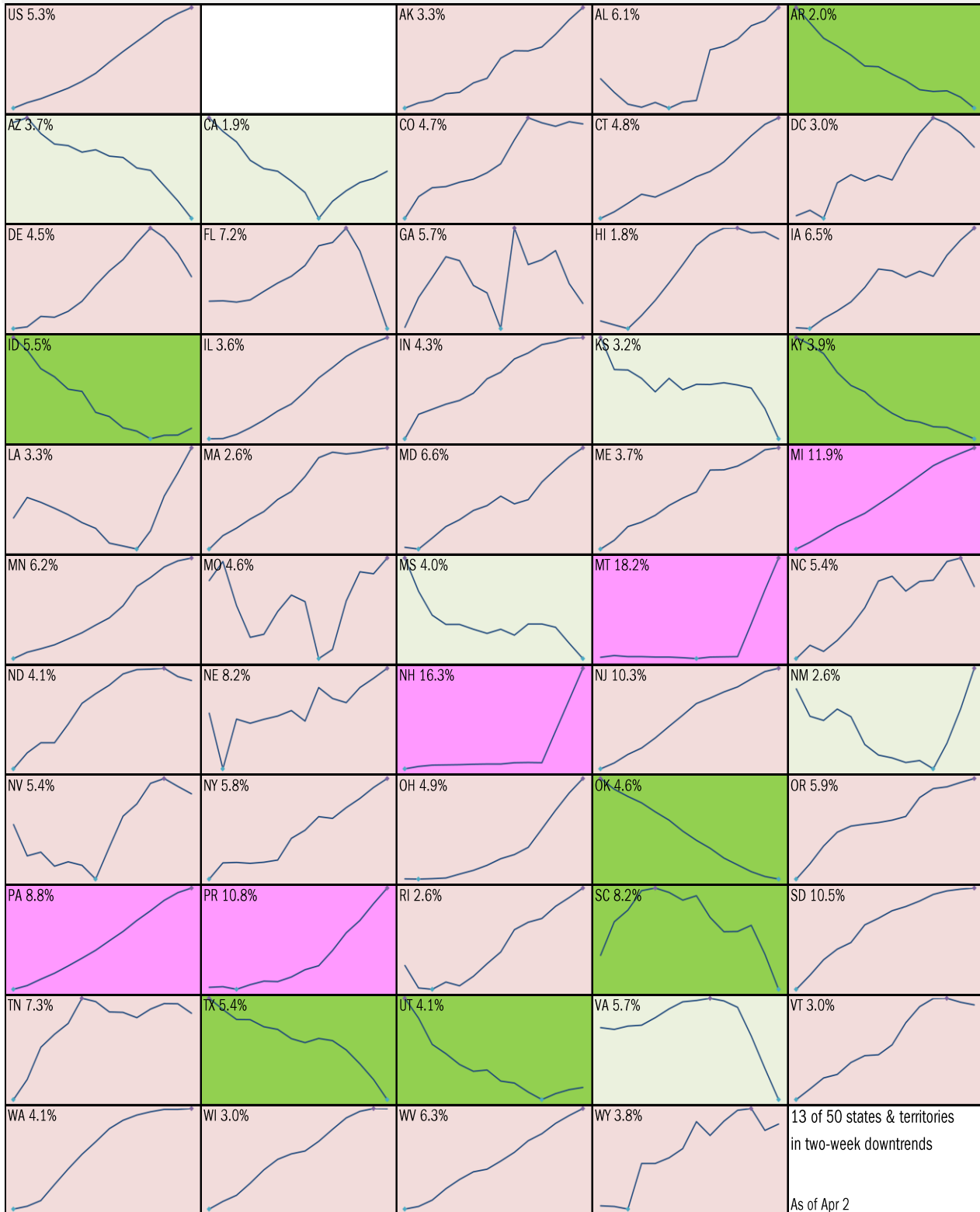


Source: [Johns Hopkins](#), TrendMacro calculations

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

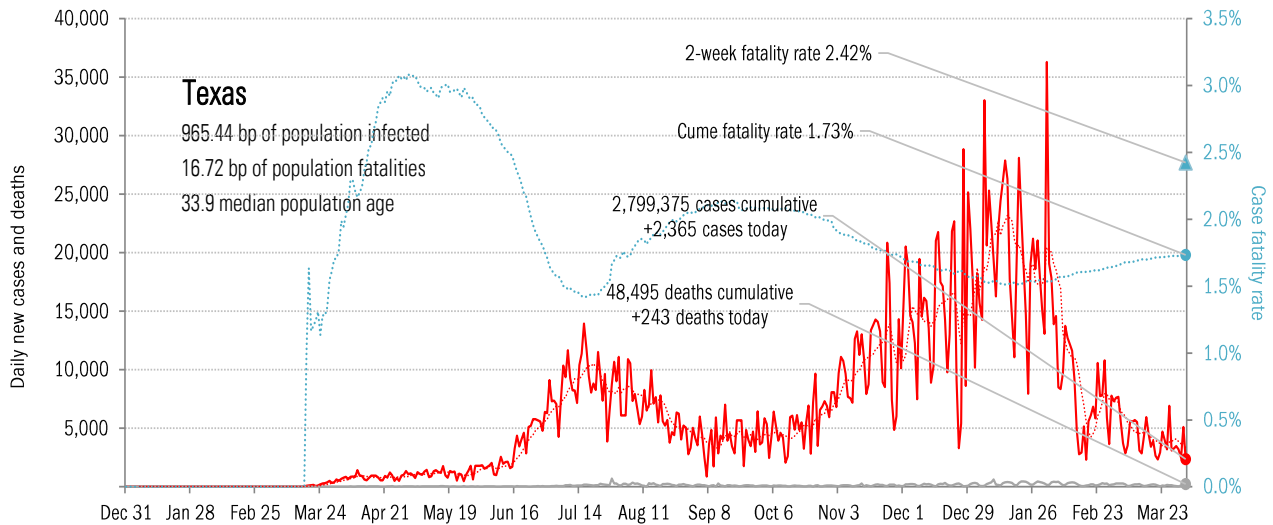
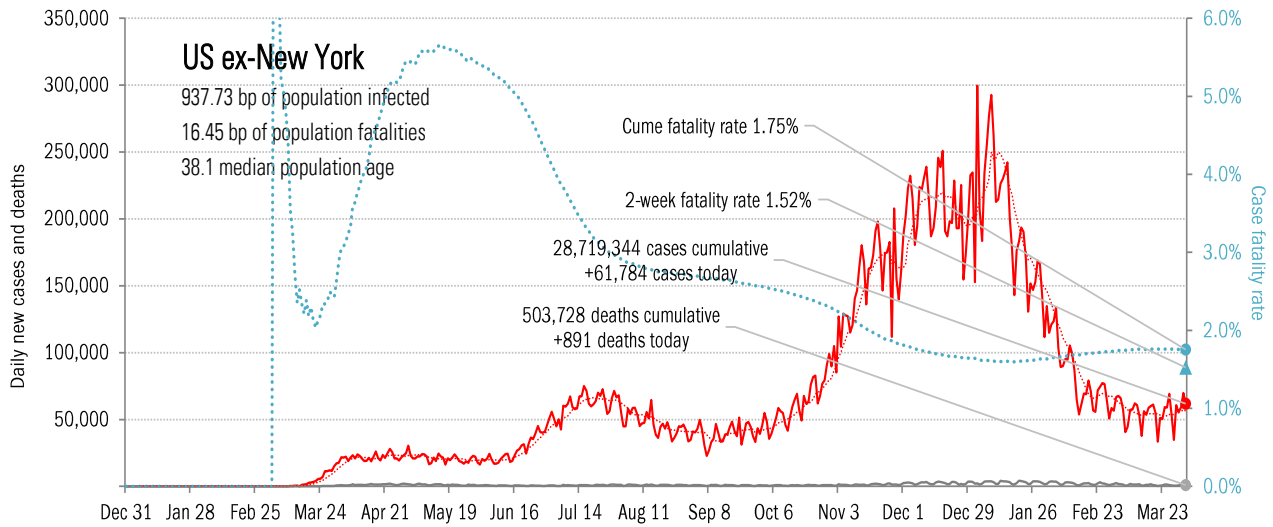
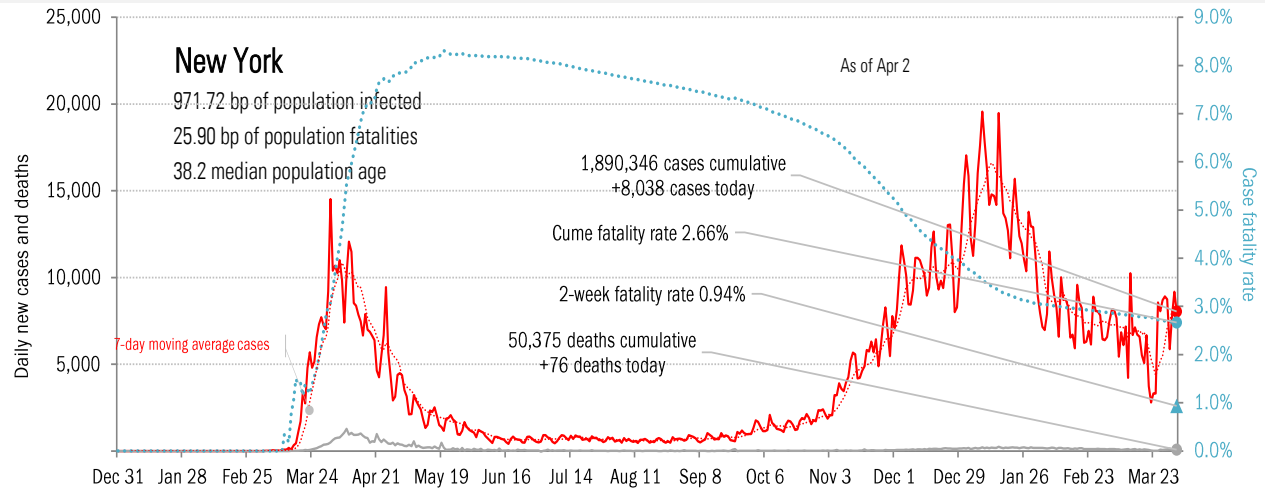
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



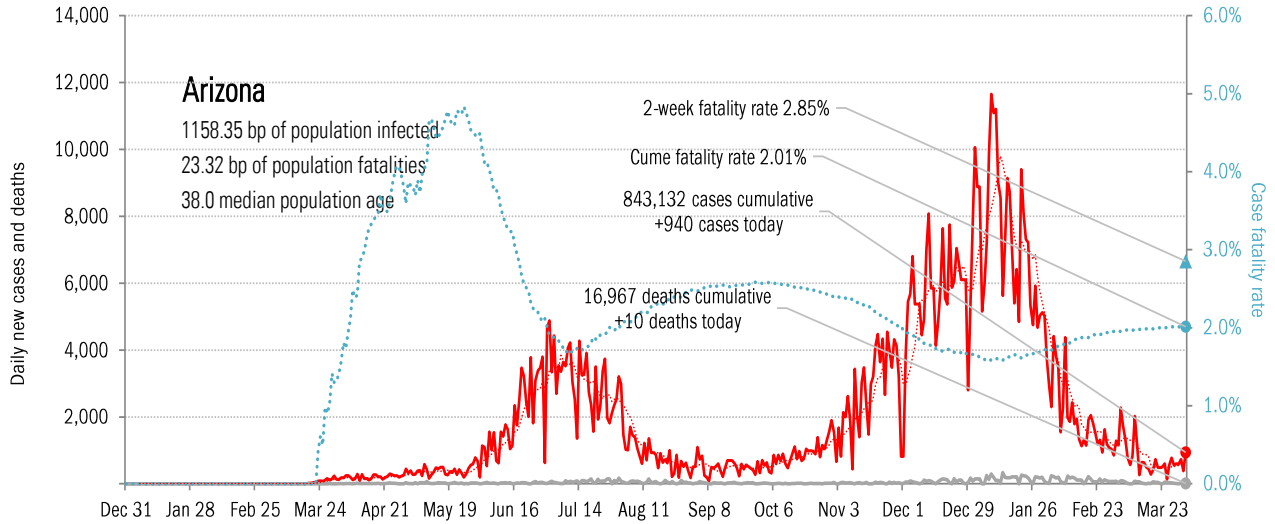
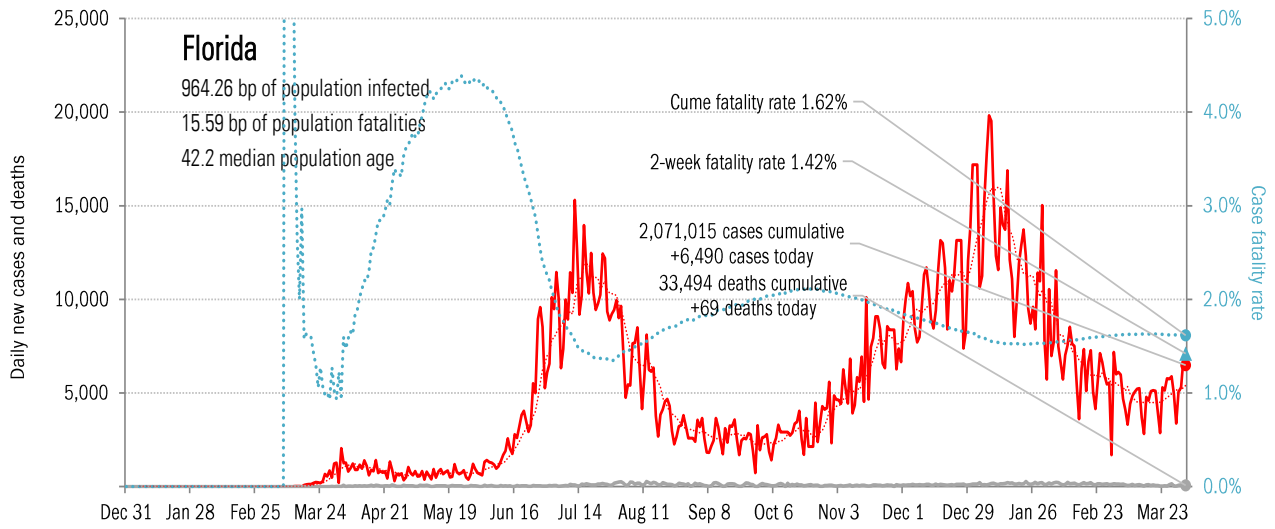
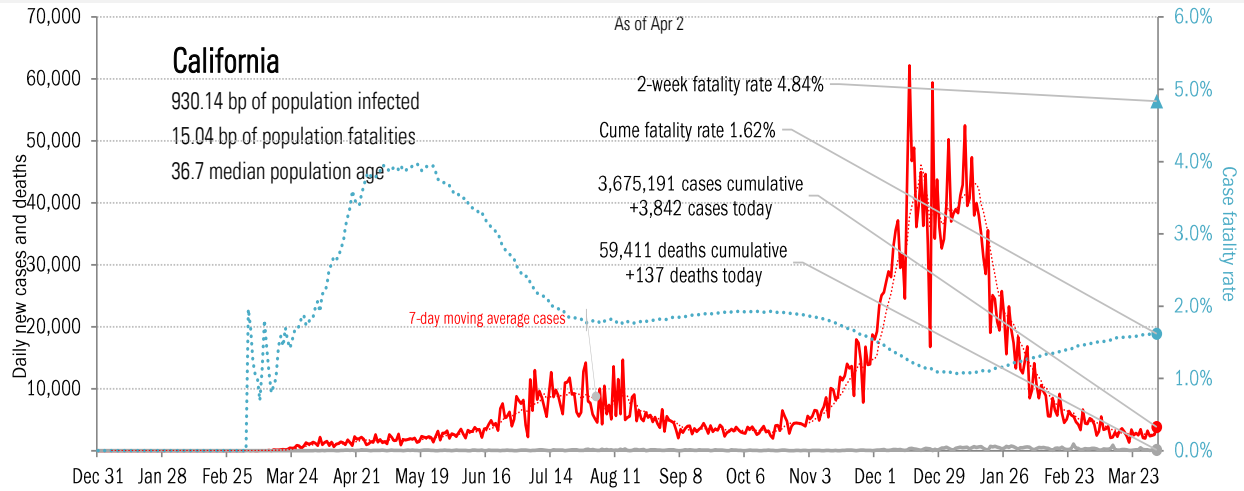
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



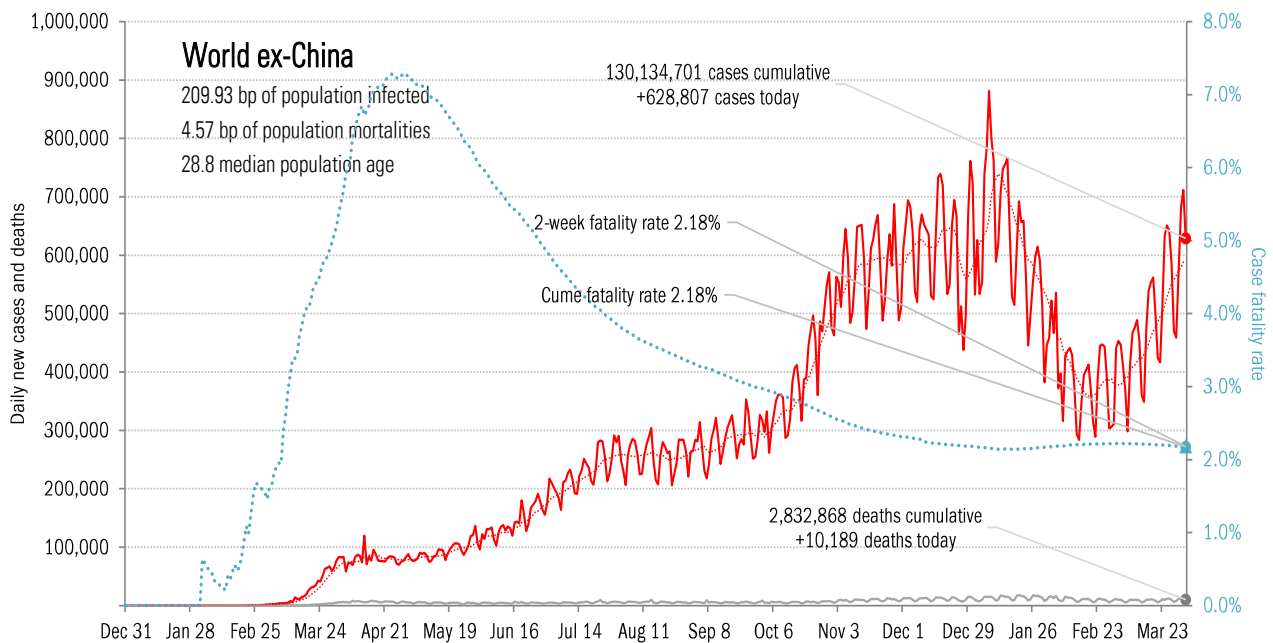
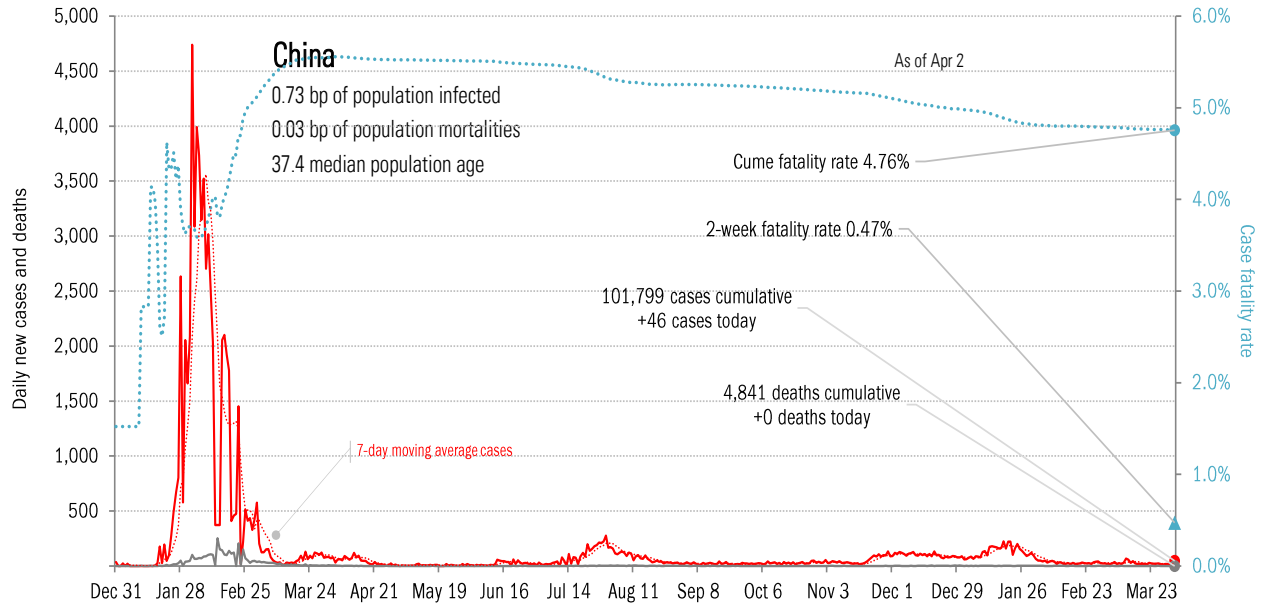
Source: [Johns Hopkins](#), TrendMacro calculations

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



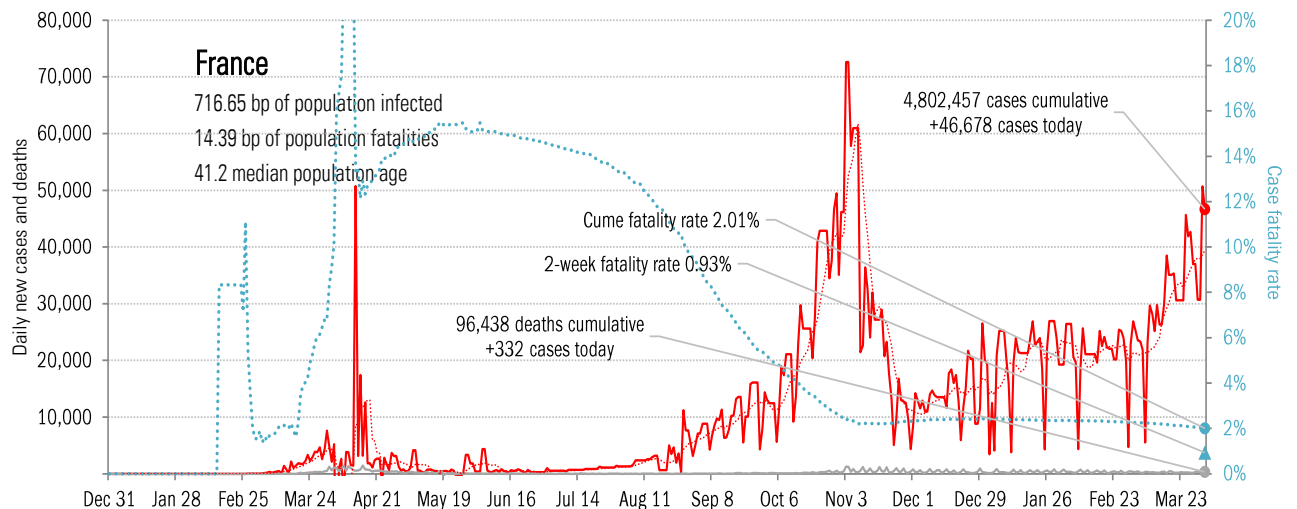
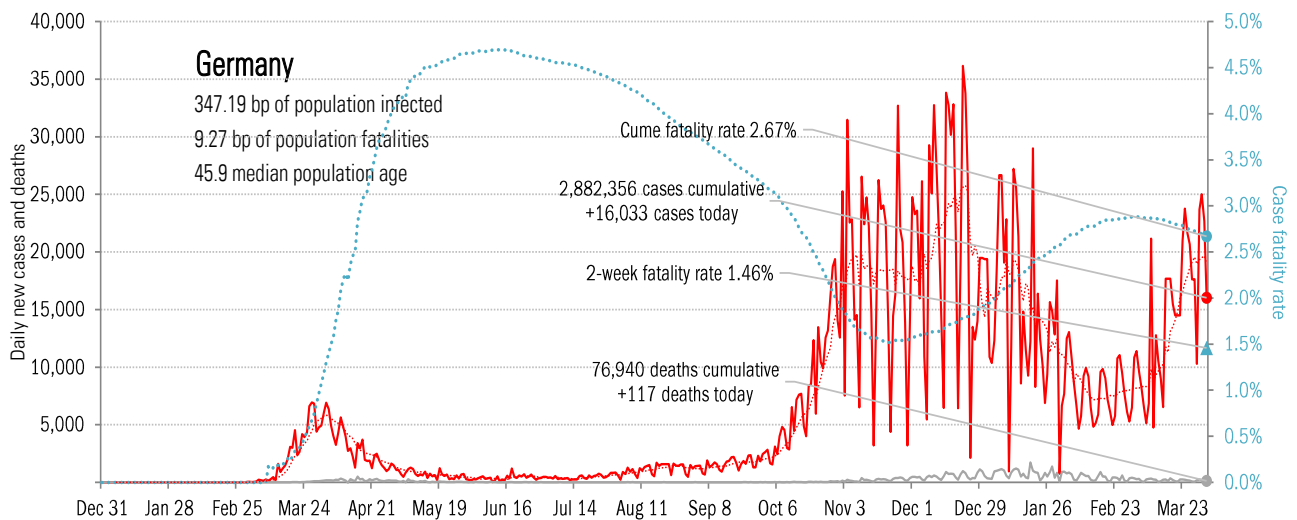
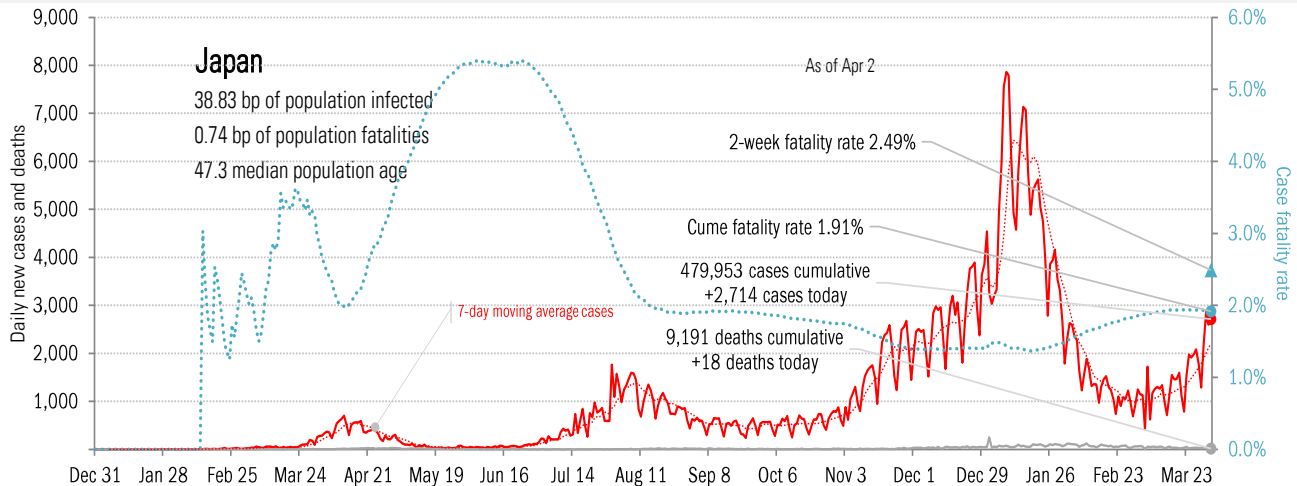
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



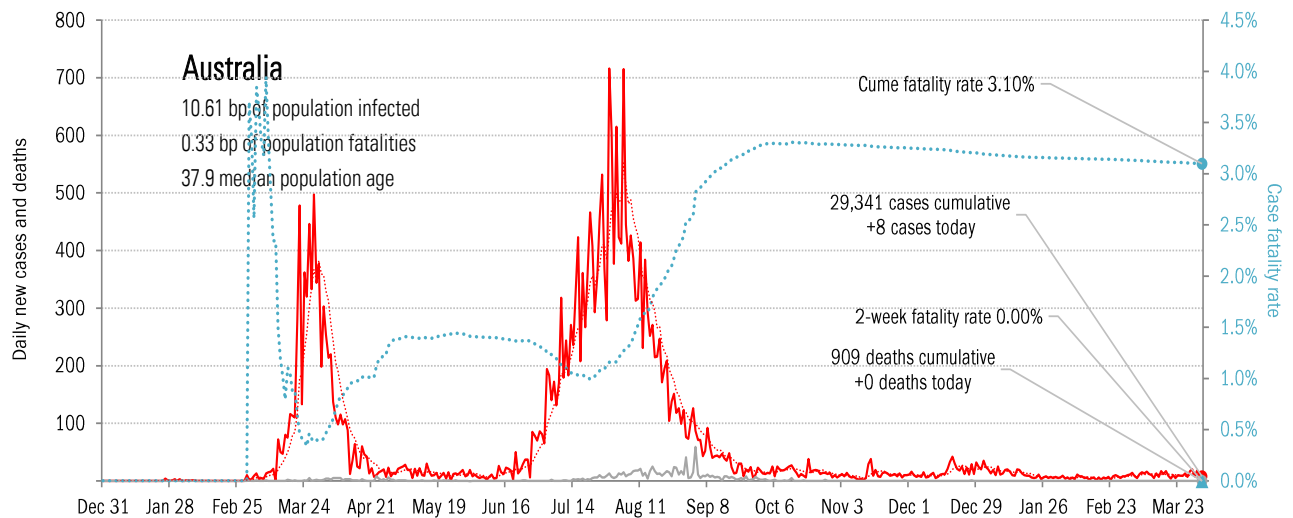
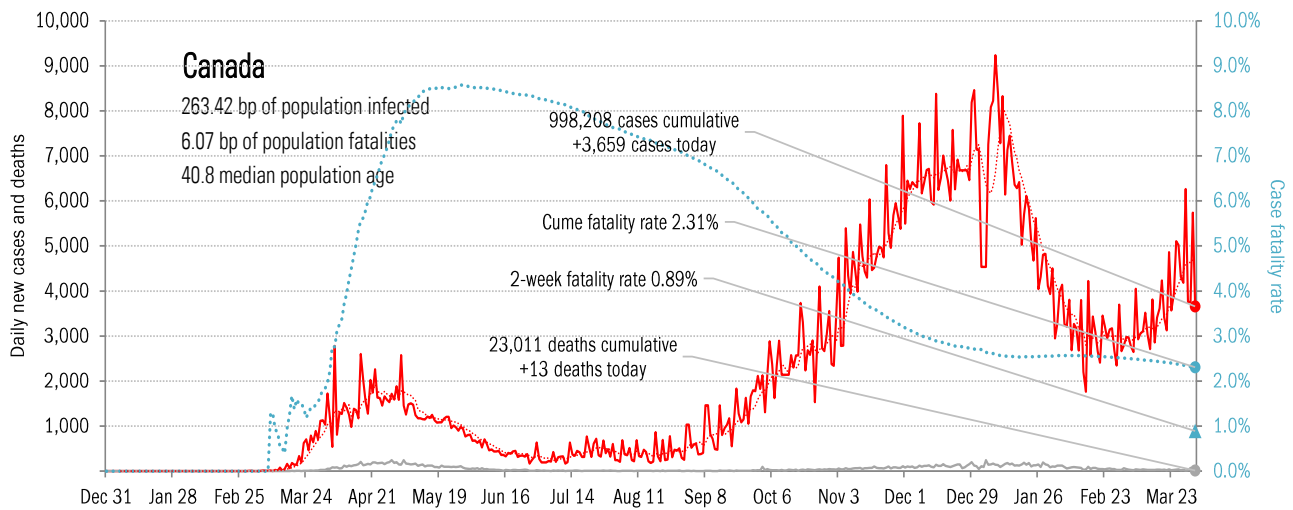
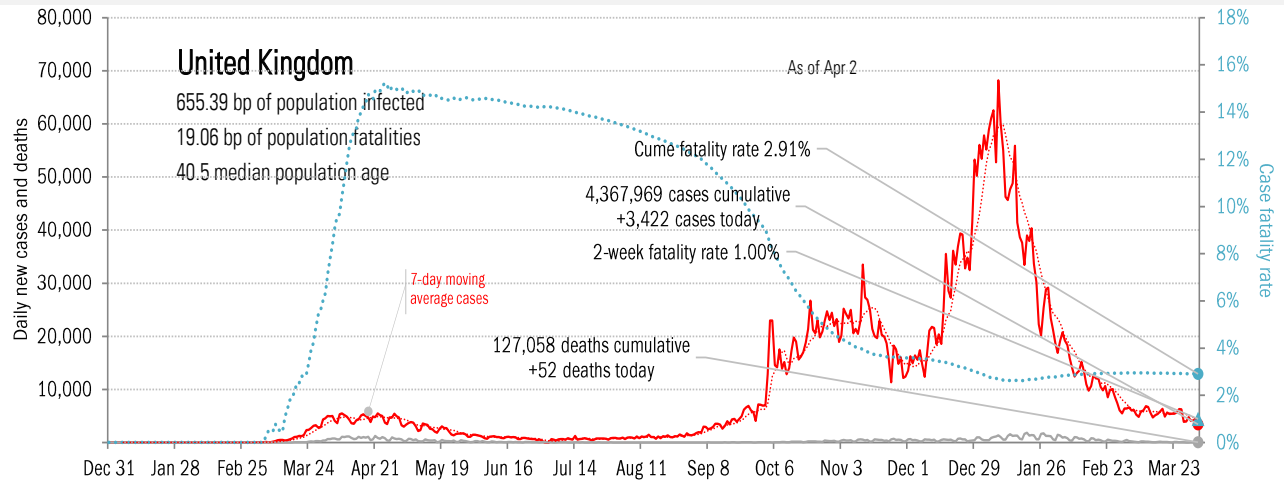
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



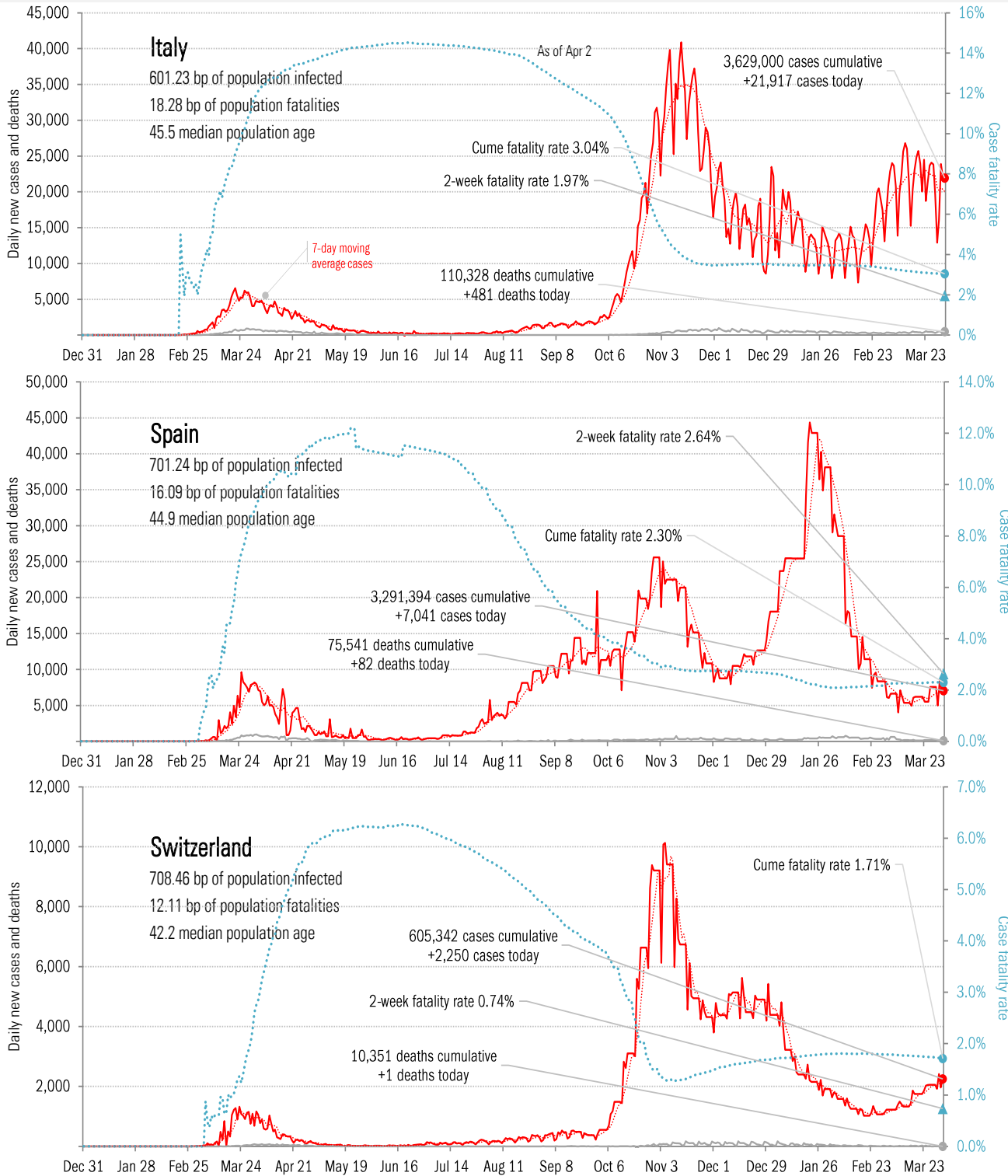
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



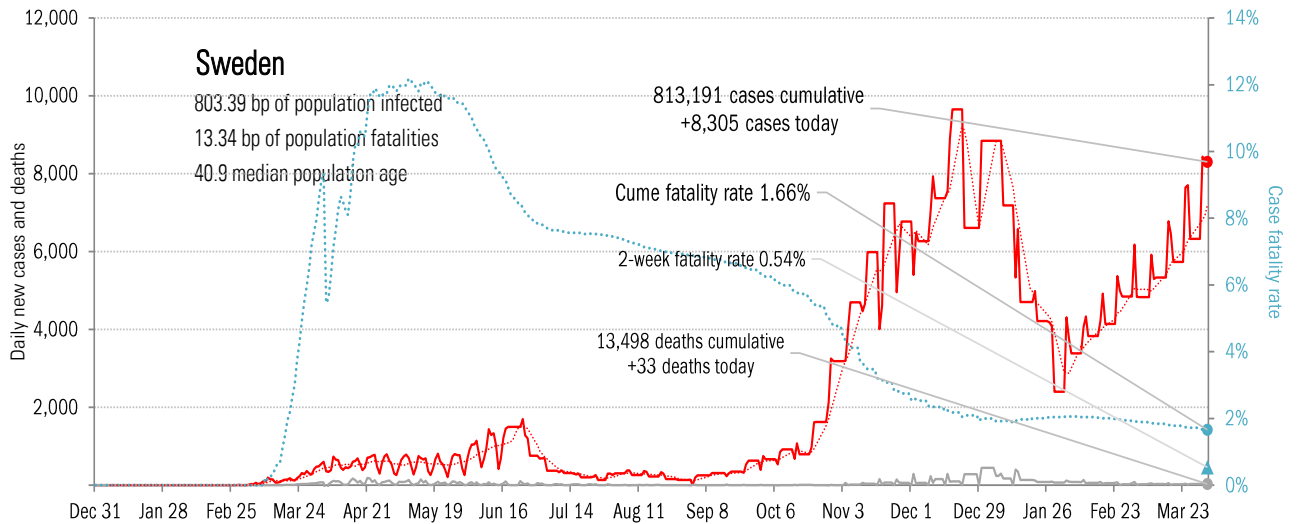
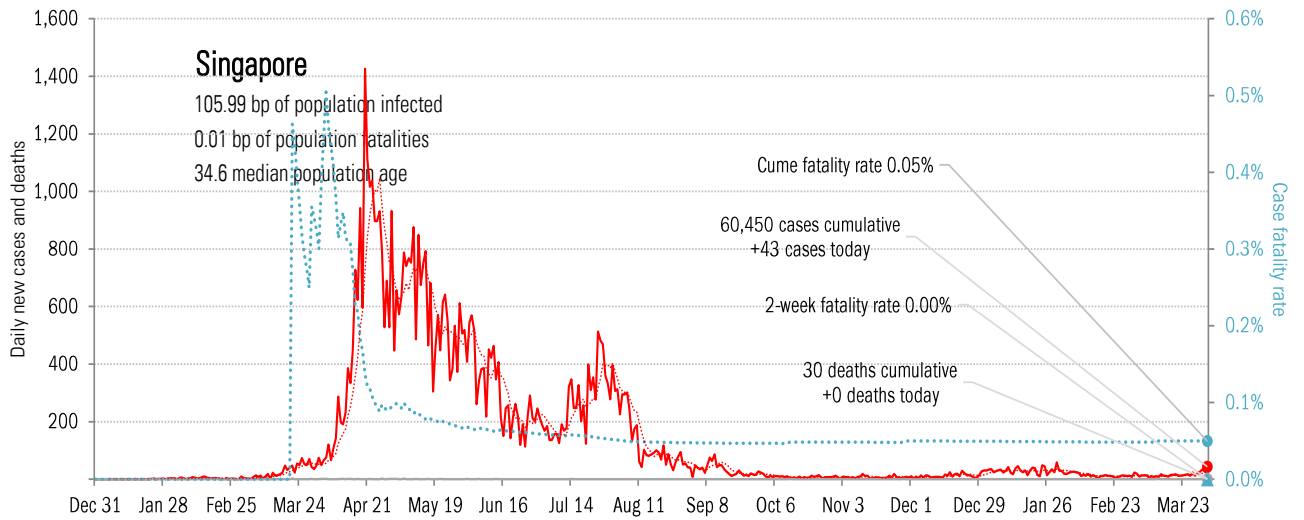
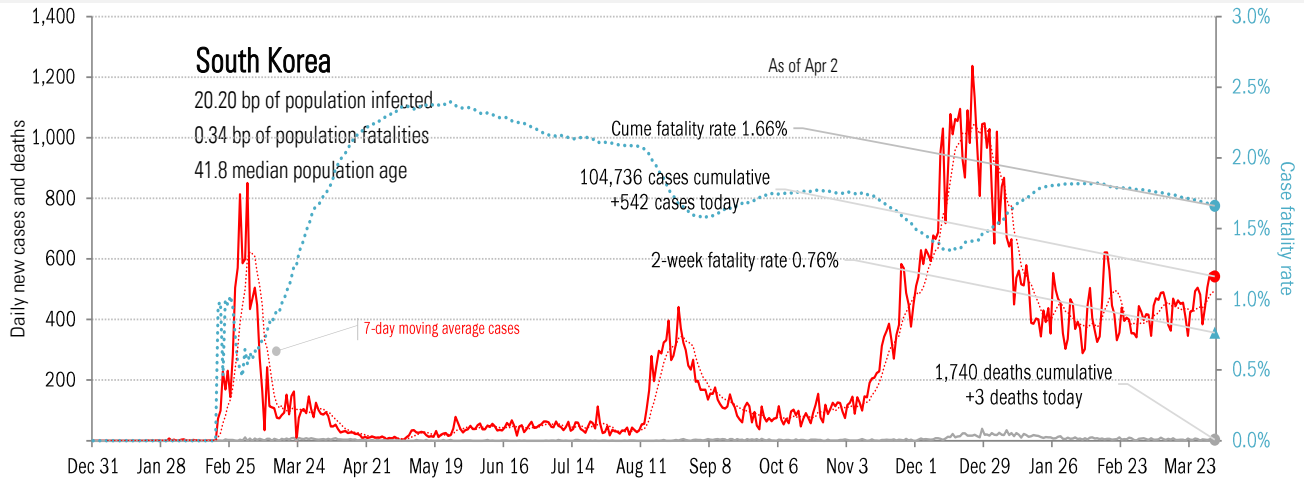
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



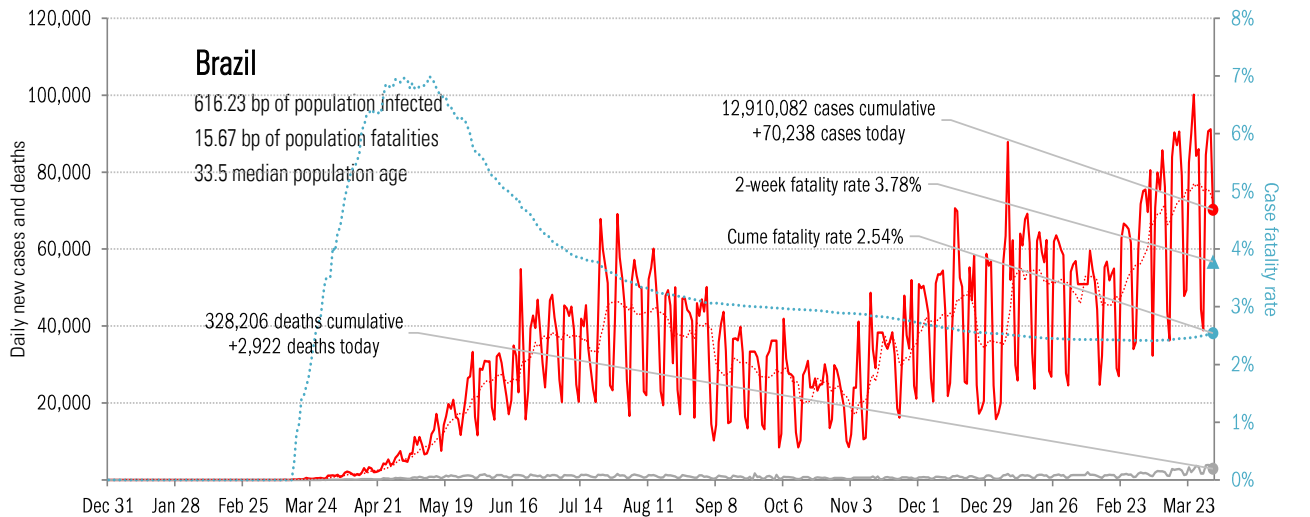
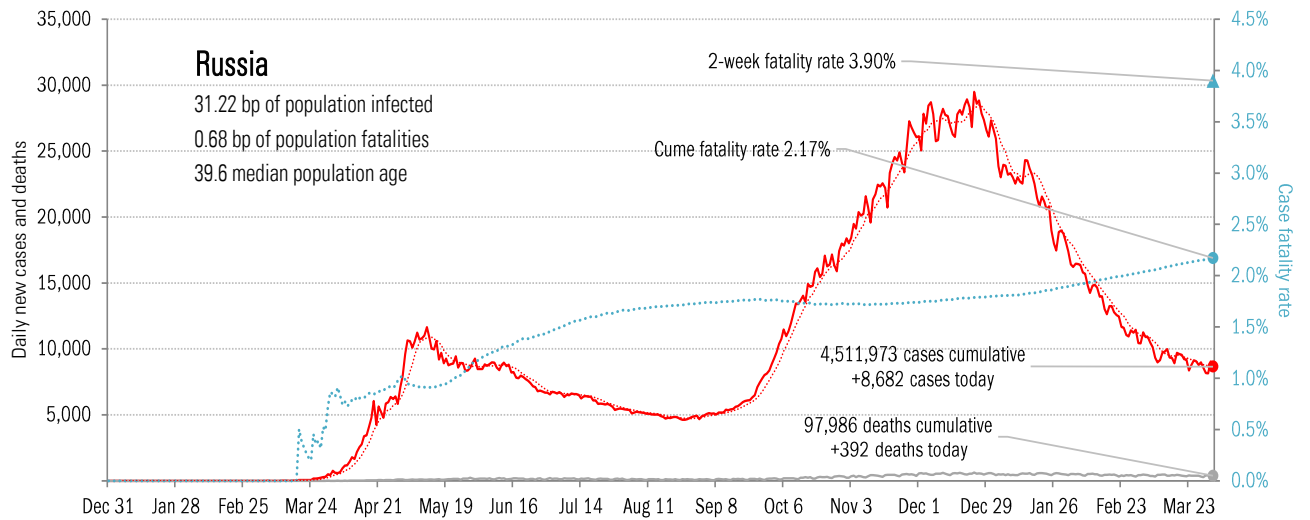
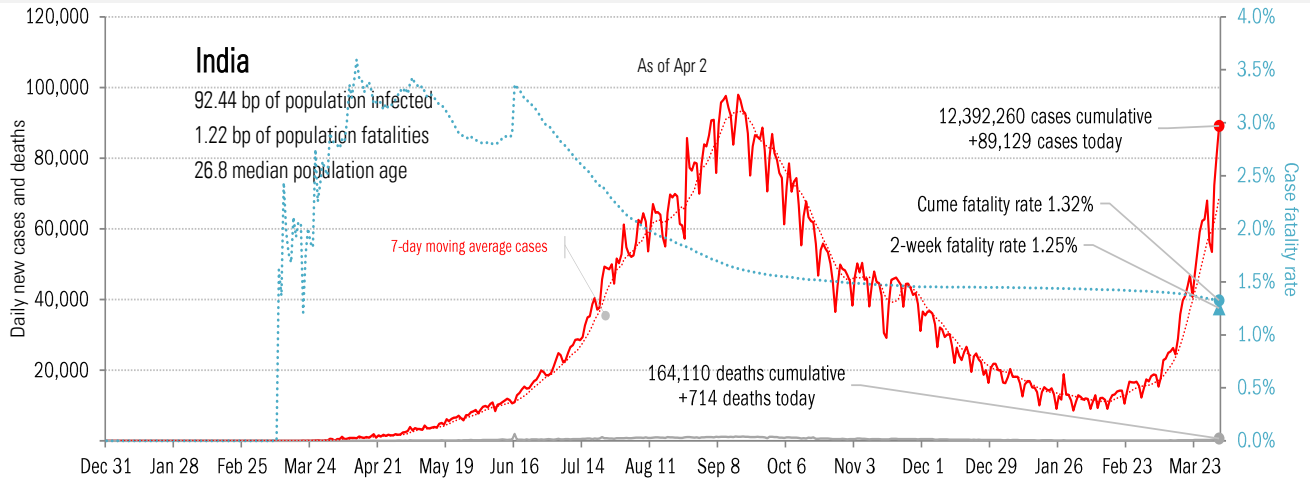
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



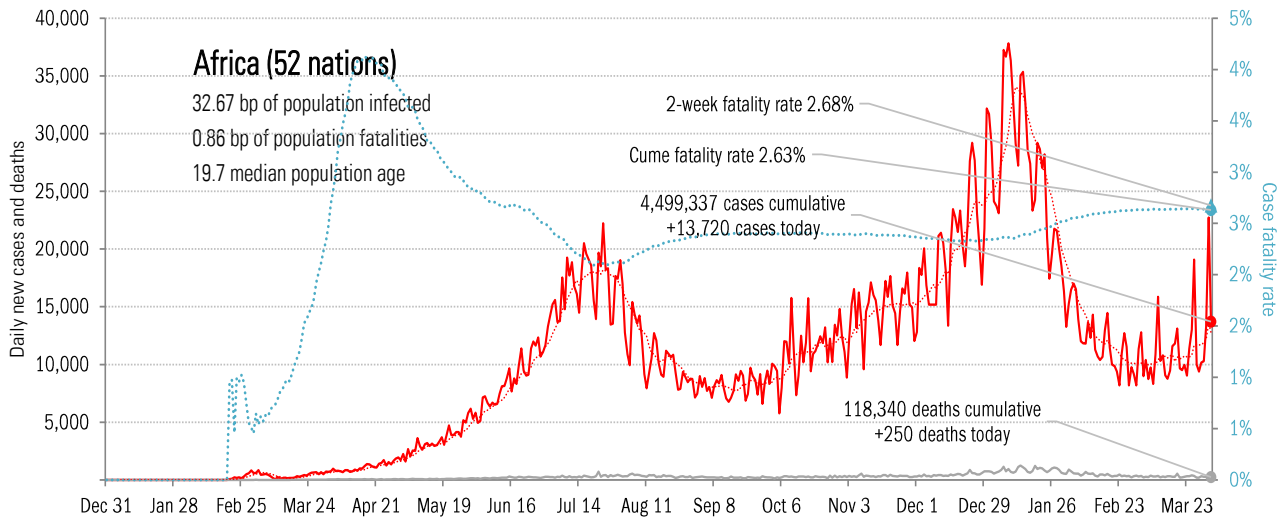
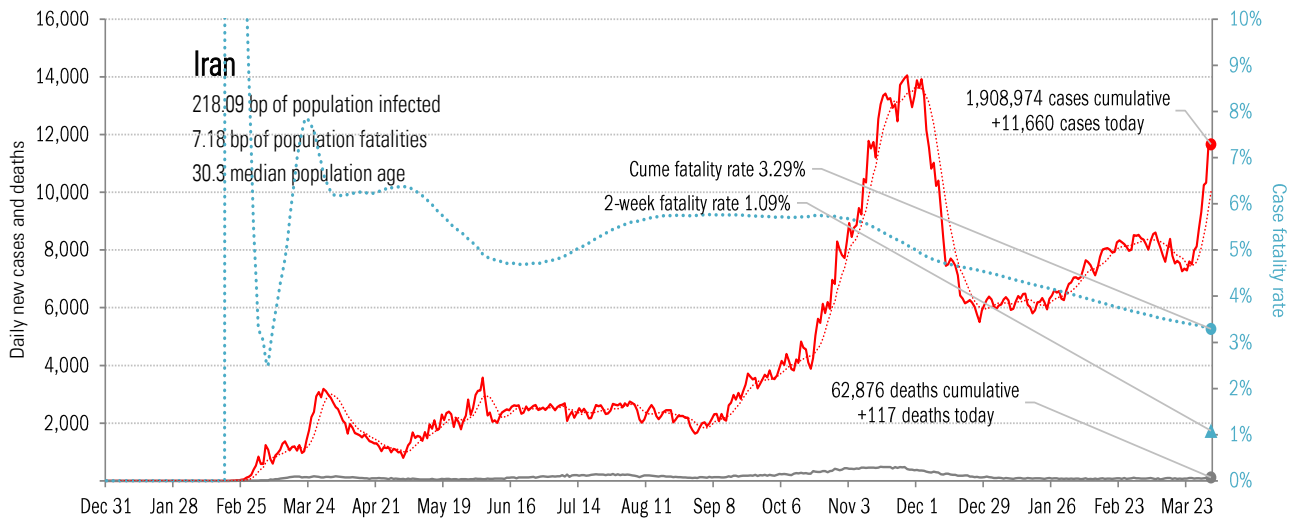
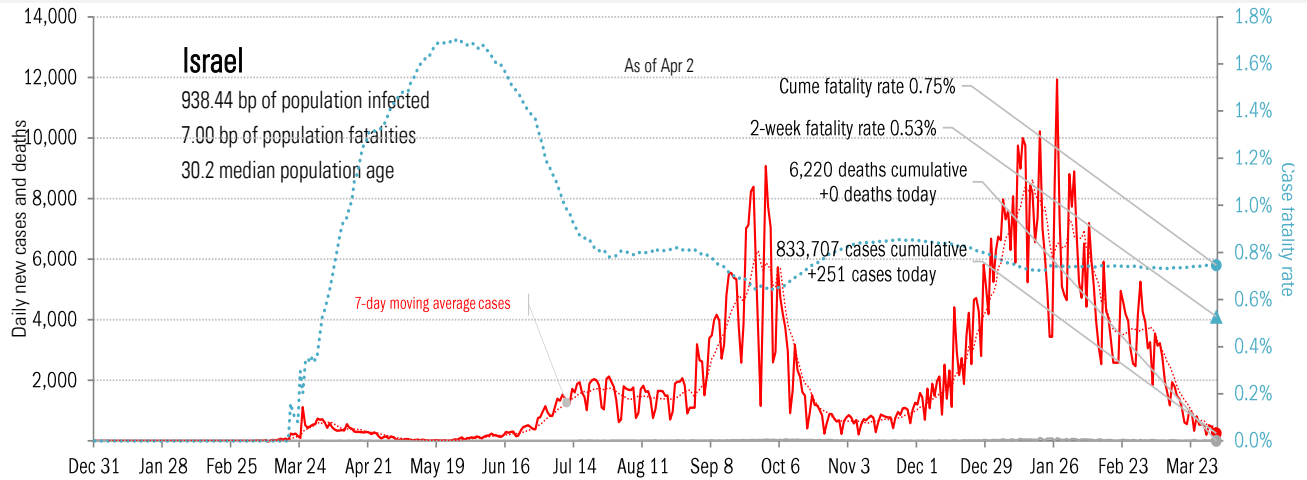
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



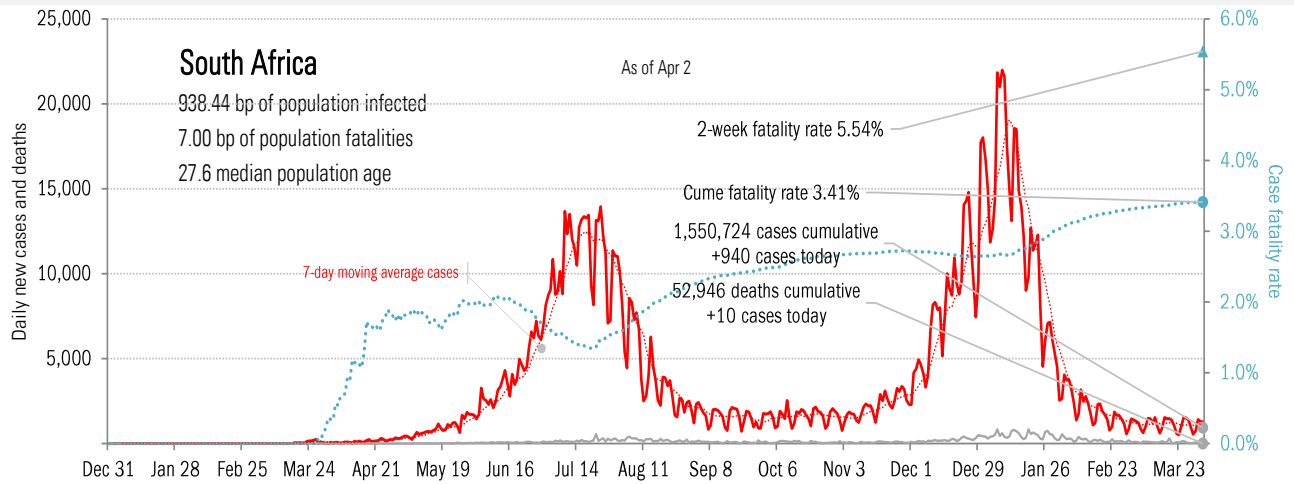
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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