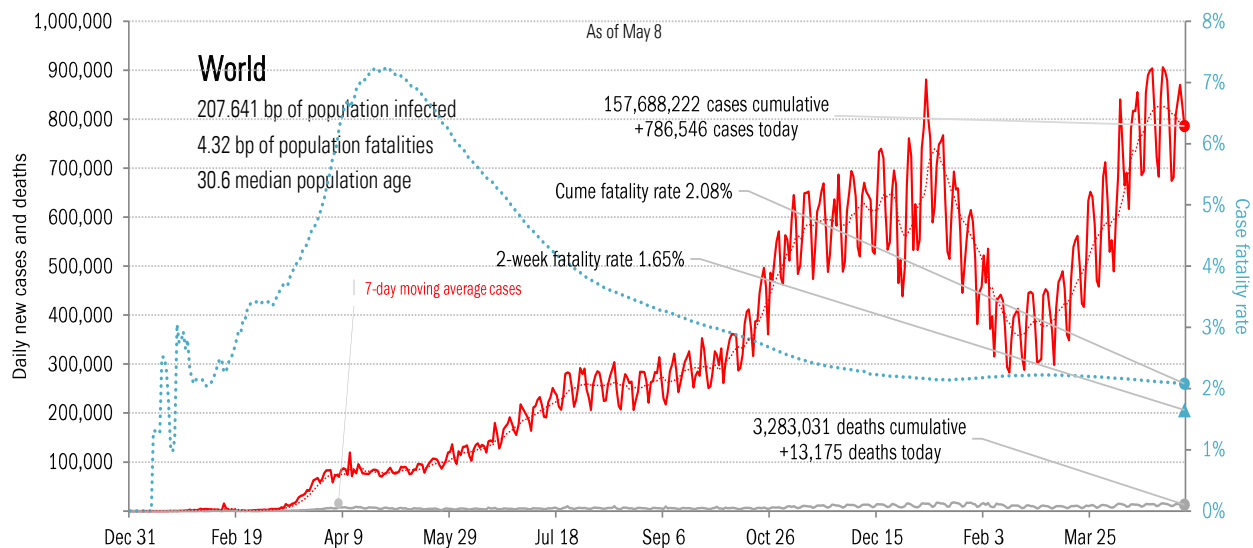
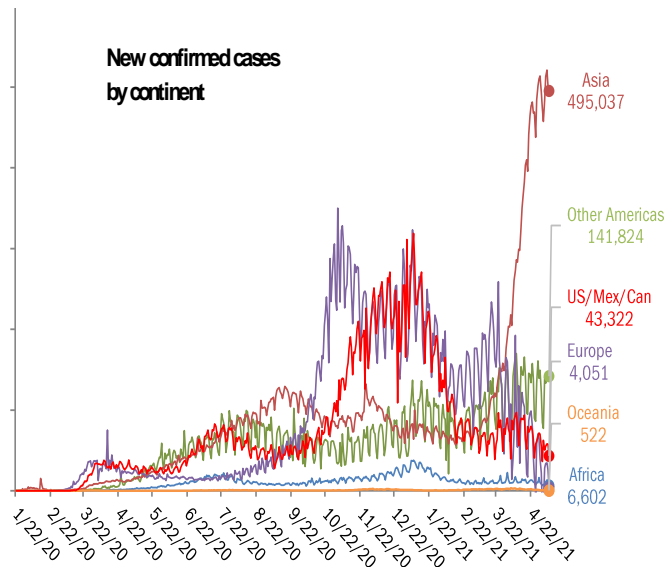


Data Insights: Covid-2019 Monitor

Sunday, May 9, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+403,405	India	+4,077
Brazil	+63,430	Brazil	+2,202
United States	+34,493	Peru	+850
France	+20,745	United States	+615
Peru	+20,599	Colombia	+492
Turkey	+18,052	Poland	+421
Argentina	+18,024	Ukraine	+378
Colombia	+16,910	Russia	+362
Iran	+13,576	Iran	+283
Germany	+13,125	Turkey	+281
+622,359		+9,961	
World +786,546		World +13,175	
Top ten 79%		Top ten 76%	



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

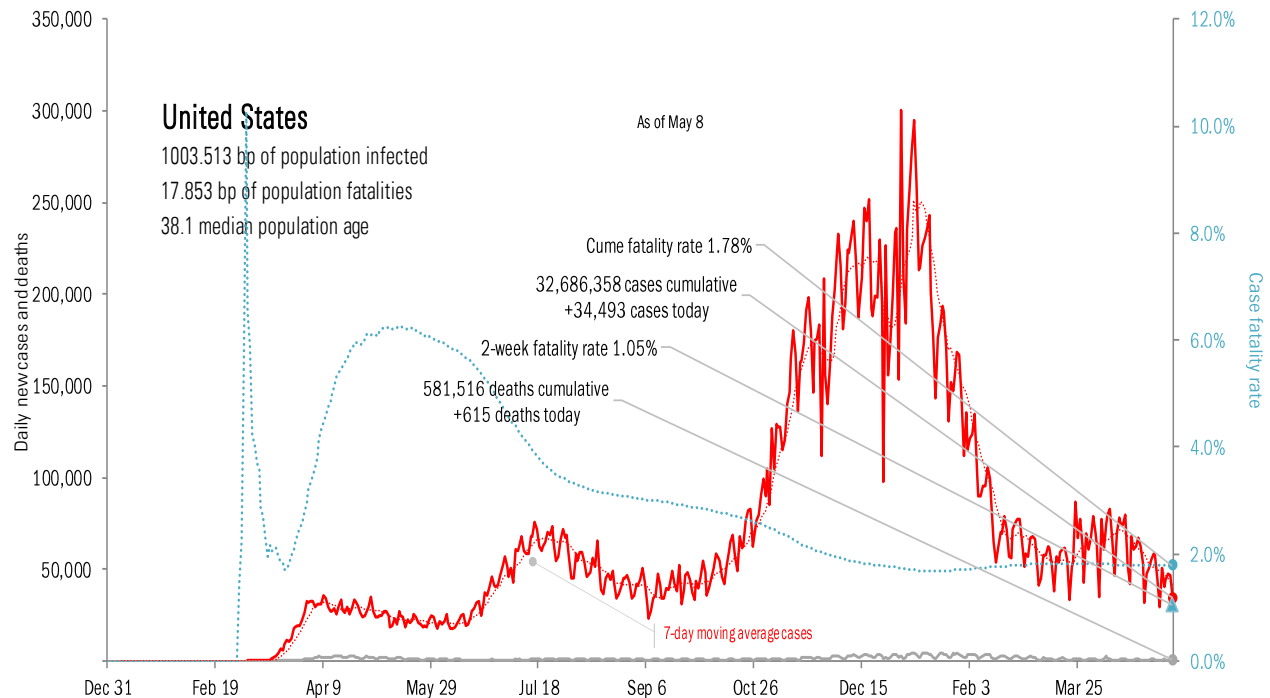
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
FL	+3,977	MI	+124	IL	+49	CA	3,757,115	CA	62,280	TX	242,383	RI	88%	MI	27%						
NY	+3,064	FL	+65	GA	+28	TX	2,913,480	NY	52,653	CA	232,240	MA	84%	ME	19%						
MI	+2,577	CA	+60	CA	+14	FL	2,266,575	TX	50,626	FL	172,361	PA	83%	MD	19%						
PA	+2,280	TX	+43	CO	+14	NY	2,070,053	FL	35,700	NY	130,736	MD	82%	CO	18%						
IL	+1,730	NY	+42	CR	+14	IL	1,353,125	PA	26,484	GA	103,963	MI	81%	MN	16%						
CO	+1,566	GA	+31	CH	+12	PA	1,173,009	NJ	25,791	#N/A	0	CT	81%	WA	15%						
TX	+1,553	PA	+31	KY	+10	GA	1,109,330	IL	24,546	CH	169,493	MO	80%	RI	14%						
WA	+1,497	WI	+27	NC	+8	CH	1,082,815	GA	20,368	IL	77,815	FL	79%	PA	14%						
CH	+1,297	IL	+22	NH	+7	NJ	1,007,555	CH	19,428	KY	73,238	GA	79%	IL	14%						
MN	+1,282	NJ	+22	WI	+7	NC	980,498	MI	19,377	MI	68,014	DC	79%	ID	14%						
+20,823			+467			+163			17,713,555			337,253			1,270,243						
All states	+34,493		+615		-205	All states	32,686,358		581,516		2,277,129	All states	70%		67%						
Top ten	60%		76%		-80%	Top ten	54%		58%		56%	Median	72%		10%						

Some states not reporting

Five most improved US states

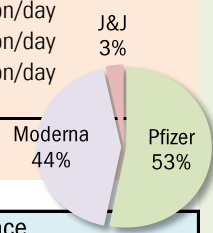
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NC	-1,932	CH	-84	LA	-130	MN	+115 bp
IL	-1,598	NC	-42	AZ	-51	MA	+89 bp
CA	-1,450	FL	-21	MO	-32	CT	+86 bp
TX	-1,298	IL	-19	TN	-28	NM	+78 bp
MI	-790	KS	-17	AR	-26	OR	+76 bp



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
341.91 million doses distributed	+2.72 million/day	US	33.7%	45.2%
265.85 million doses administered	+2.61 million/day	UK	25.4%	51.8%
155.58 million persons partially immunized	+0.91 million/day	France	11.4%	25.7%
116.21 million persons fully immunized	+1.78 million/day	Spain	12.7%	28.4%
		Germany	9.0%	32.1%
		Italy	12.0%	27.4%
		Australia	1.6%	0.6%
		Israel	58.6%	62.6%
		Canada	3.3%	38.2%
		Japan	0.9%	2.4%
		Africa	0.4%	1.0%
		India	2.5%	9.7%
		Brazil	7.1%	14.9%



77.8% of distributed doses administered
46.6% of US pop partial 34.8% full immunity

At today's dosing pace, every American >18 immune in **82 days** by Jul 28, 2021
55.1% of population >18 immunized
13.8% previously tested positive
68.8% vs 60% adult herd immunity*

Global data differs from sources, timing

AK
56.9%
42.7%
36.7%

State
Immunities distributed as % population**
At least partial immunity as % population
Full immunity as % population



WI
50.3%
47.0%
38.6%

ME
60.1%
57.1%
44.4%

VT
64.5%
59.9%
41.5%

NH
56.1%
57.2%
33.0%

WA	ID	MT	ND	MN	IL	MI	NY	MA		
55.0%	44.3%	51.0%	45.3%	50.0%	53.8%	53.4%	54.6%	61.5%		
49.1%	35.0%	41.9%	40.0%	49.2%	48.5%	44.2%	49.8%	59.7%		
35.6%	29.0%	34.3%	34.2%	37.8%	33.3%	35.4%	38.8%	41.6%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
53.1%	45.5%	45.2%	54.6%	49.9%	45.3%	49.7%	56.8%	56.5%	60.5%	63.7%
47.5%	41.1%	34.7%	45.6%	45.4%	37.7%	41.6%	52.3%	53.9%	57.1%	54.5%
34.3%	30.9%	29.4%	39.7%	37.7%	29.8%	35.1%	35.8%	40.4%	43.6%	40.6%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
56.3%	45.0%	53.6%	50.5%	47.2%	48.5%	49.8%	53.7%	58.2%	57.3%	
51.1%	40.9%	48.4%	44.3%	38.8%	42.2%	36.5%	49.4%	50.9%	48.9%	
34.3%	26.3%	36.9%	36.4%	30.0%	34.0%	31.9%	36.8%	38.0%	36.3%	
AZ	NM	KS	AR	TN	NC	SC	DC			
51.4%	53.5%	51.2%	47.1%	44.1%	52.6%	48.6%	68.6%			
42.1%	52.7%	43.6%	36.5%	35.6%	40.4%	37.7%	50.7%			
31.2%	41.2%	34.5%	27.5%	27.4%	32.1%	29.7%	33.6%			
OK	LA	MS	AL	GA						
51.1%	42.9%	44.6%	46.3%	49.3%						
39.3%	33.2%	32.0%	33.6%	36.3%						
31.2%	28.3%	25.1%	25.8%	27.2%						
HI	TX	FL	PR							
57.9%	50.2%	54.8%	57.4%							
58.5%	39.5%	43.8%	41.9%							
40.4%	29.8%	32.1%	27.9%							

As of May 8

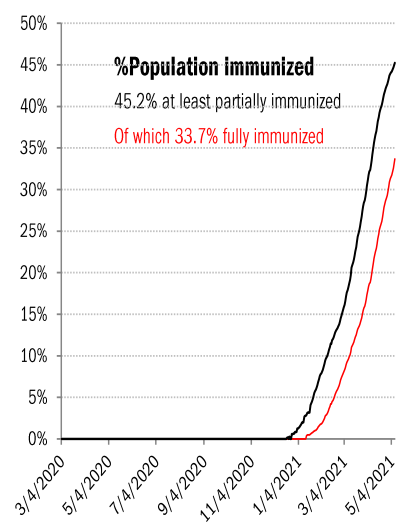
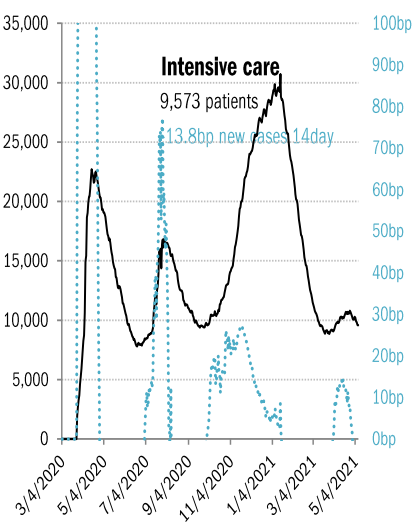
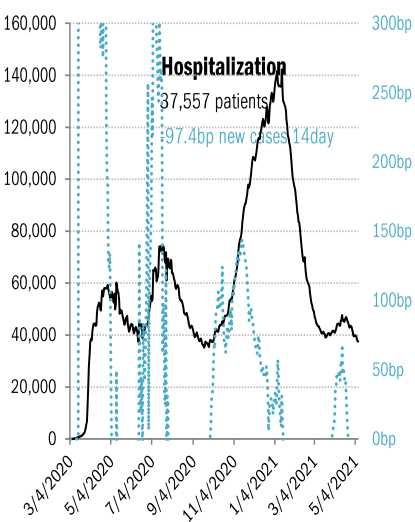
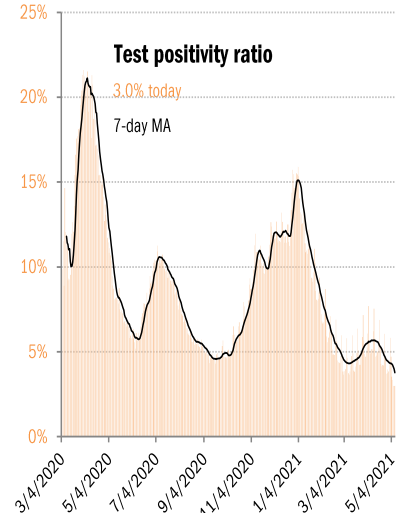
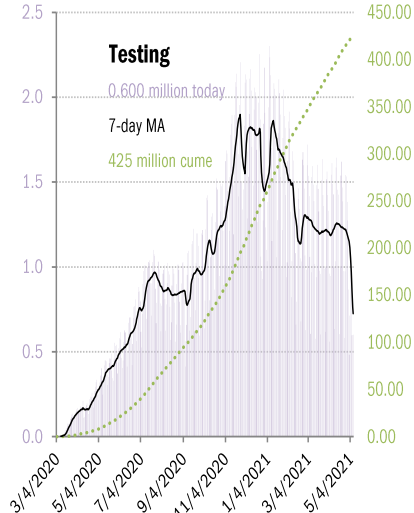
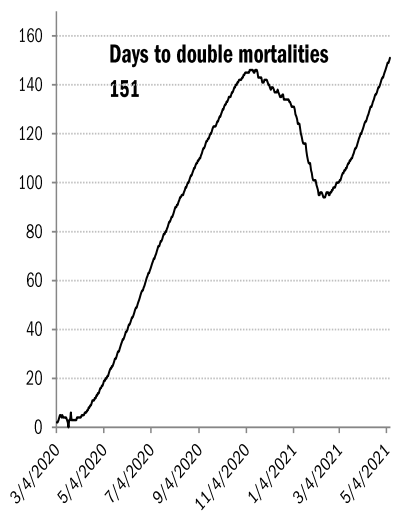
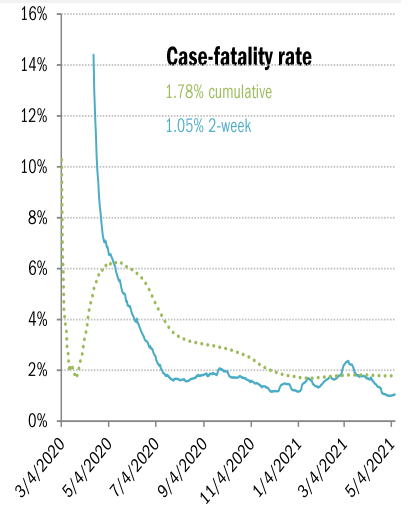
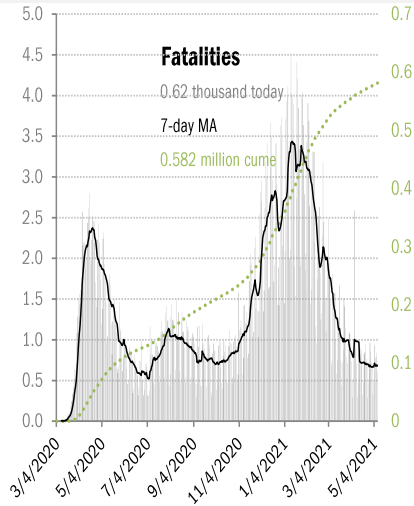
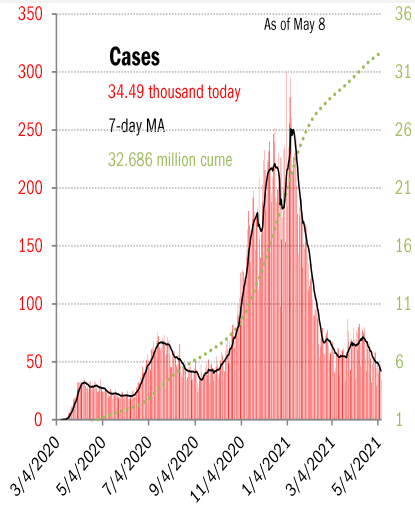
* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.

** 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

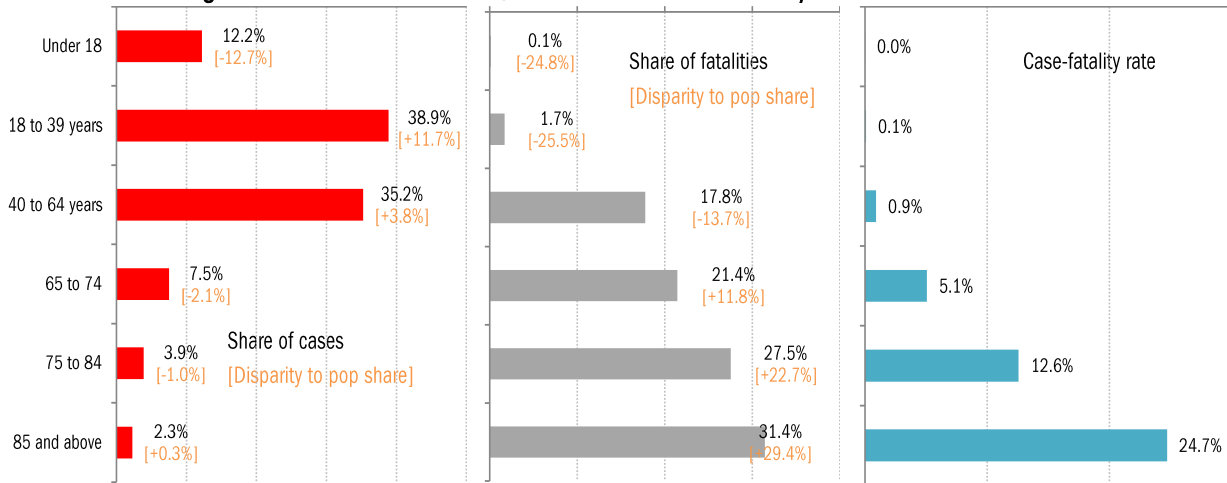
US deep-dive

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

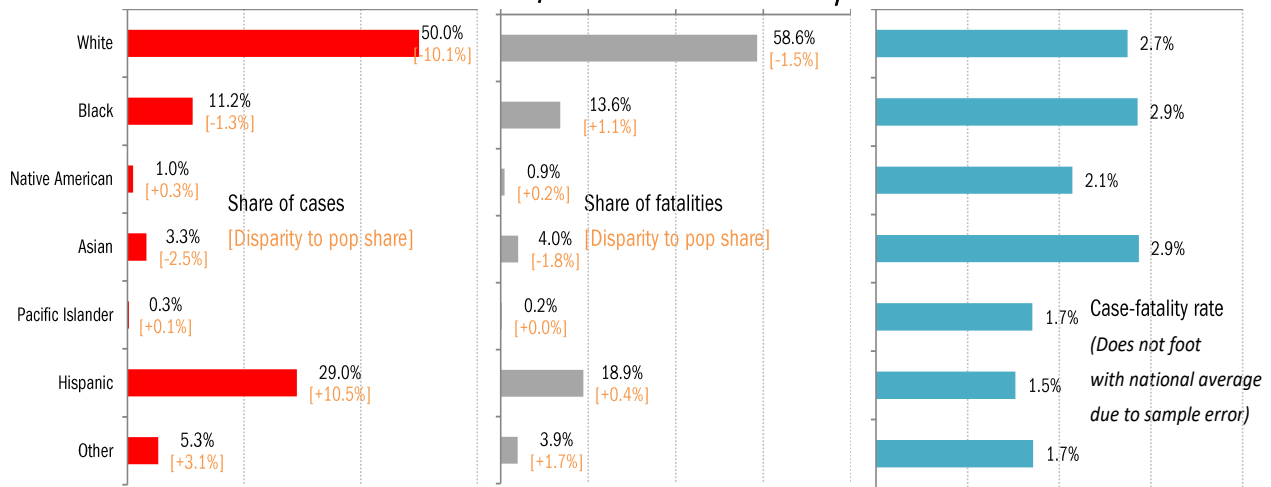


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

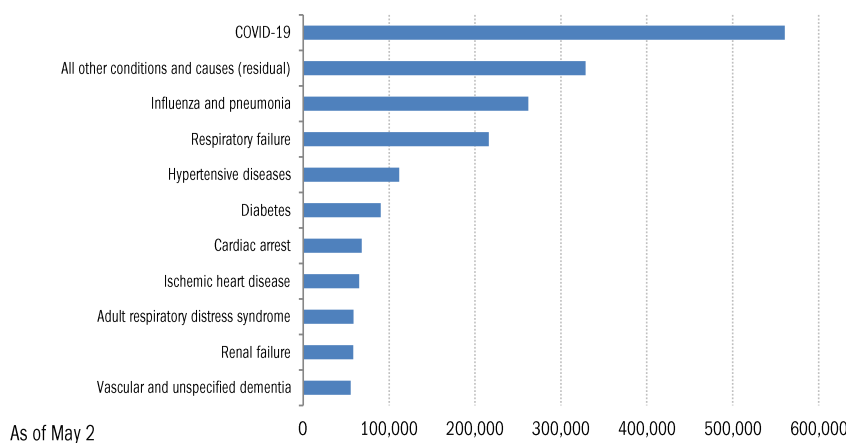


Racial distribution of US cases, fatalities and case-fatality rates Cumulative



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

[Schools Are Open, but Many Families Remain Hesitant to Return](#)

Dana Goldstein
New York Times
May 9, 2021

[COVID-19 Reported Patient Impact and Hospital Capacity by State Timeseries | beta.HealthData.gov](#)

Samantha Pearson and Luciana Magalhaes
New York Times
May 7, 2021

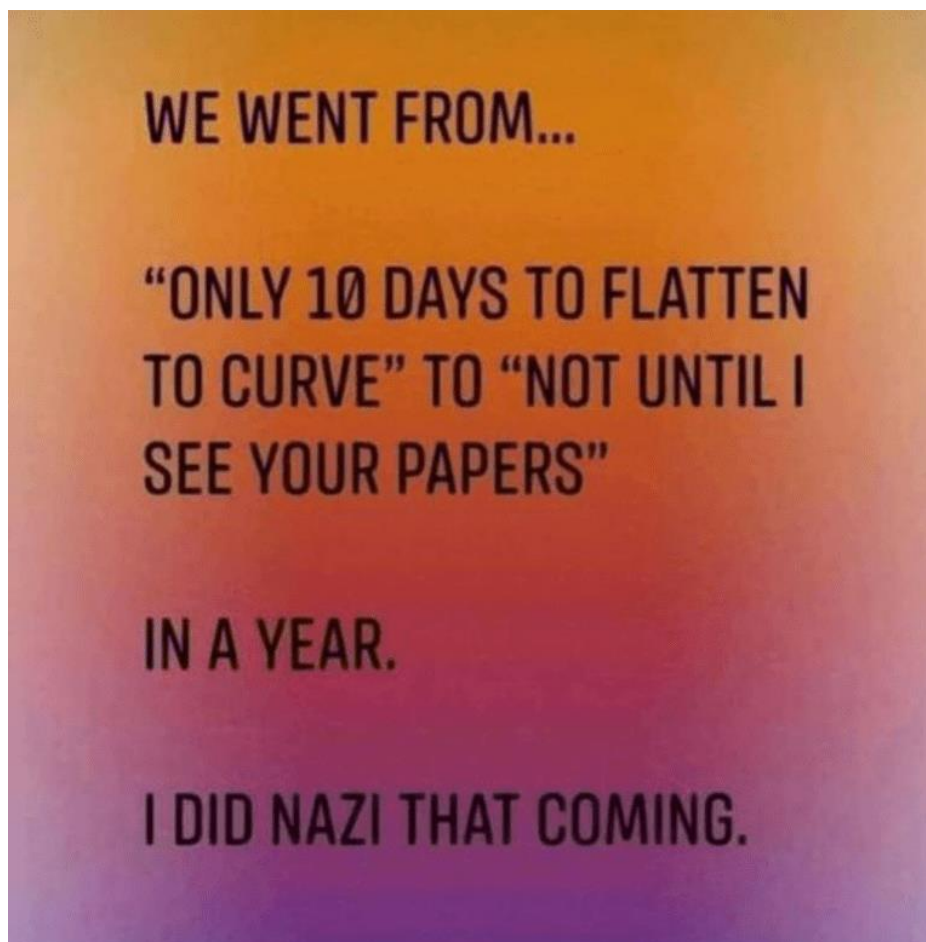
[At India's Funeral Pyres, Covid Sunderes the Rites of Grief](#)

Mujib Mashal, Sameer Yasir and Shalini Venugopal Bhagat
New York Times
May 8, 2021

[How Vaccinations Are Helping Return Americans to Work](#)

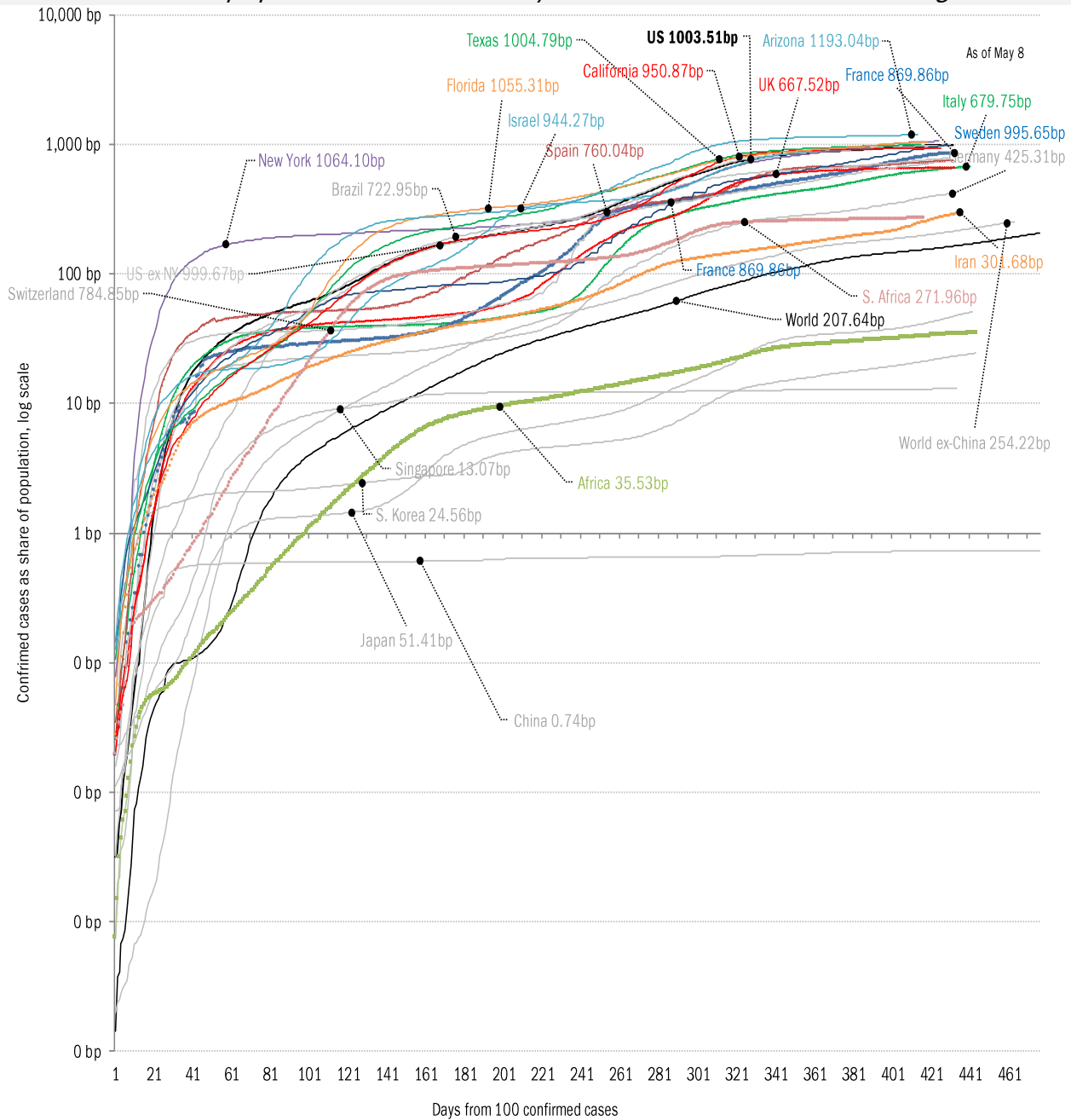
Joint Economic Republicans
May 7, 2021

Meme of the day



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

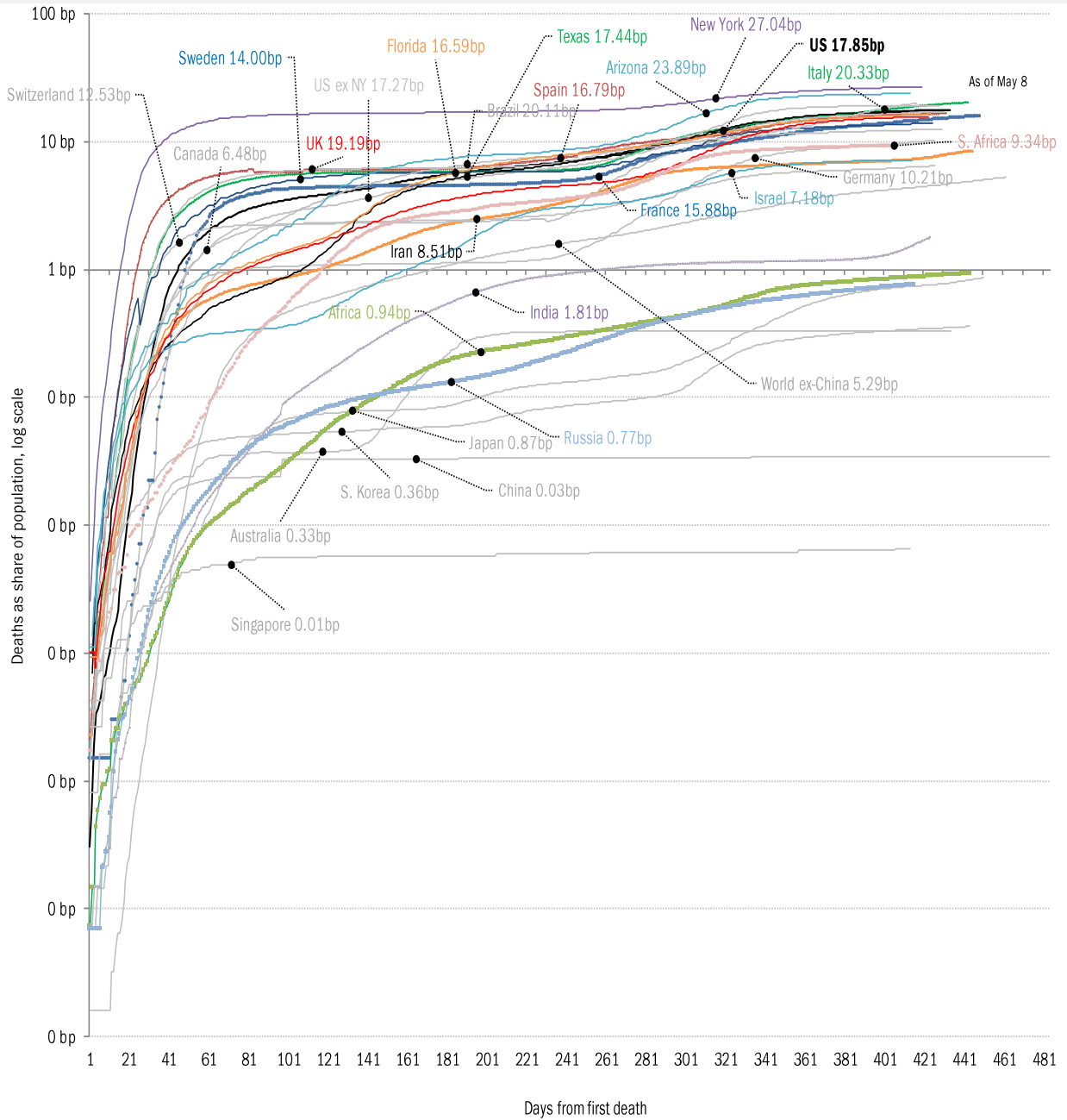
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

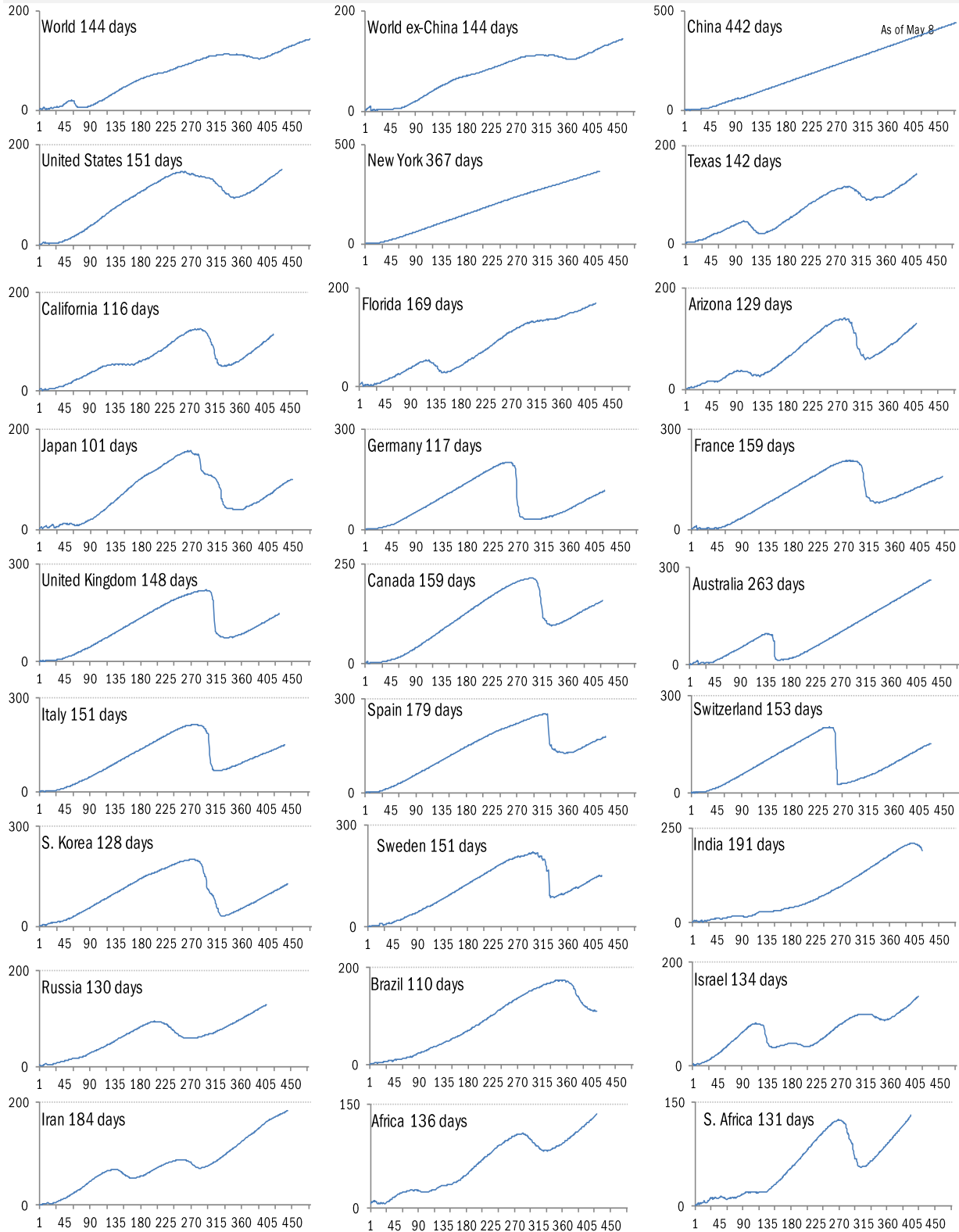


Source: [Johns Hopkins](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

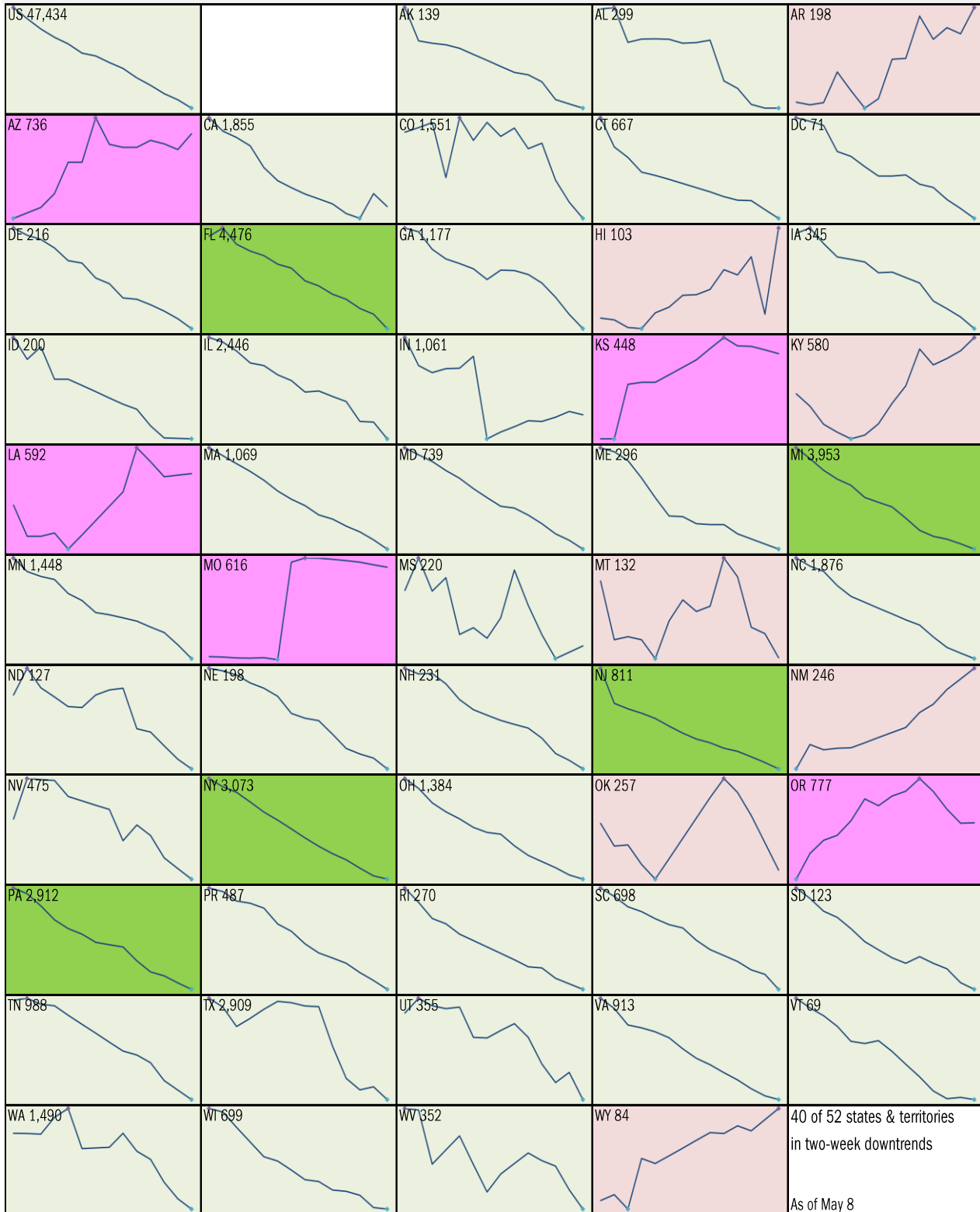
Vertical: days to double deaths Horizontal: days from first death

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

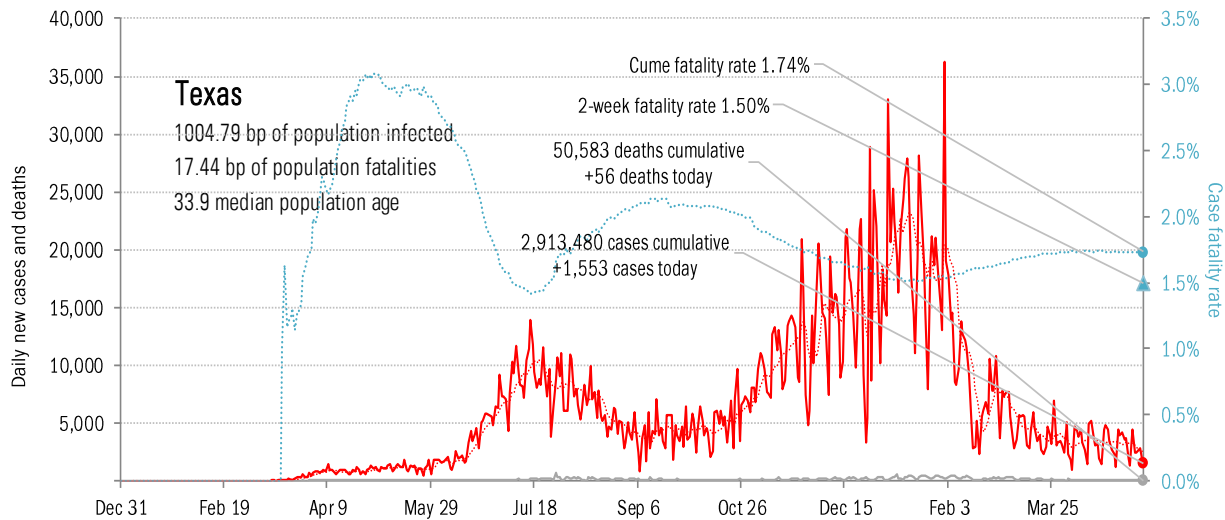
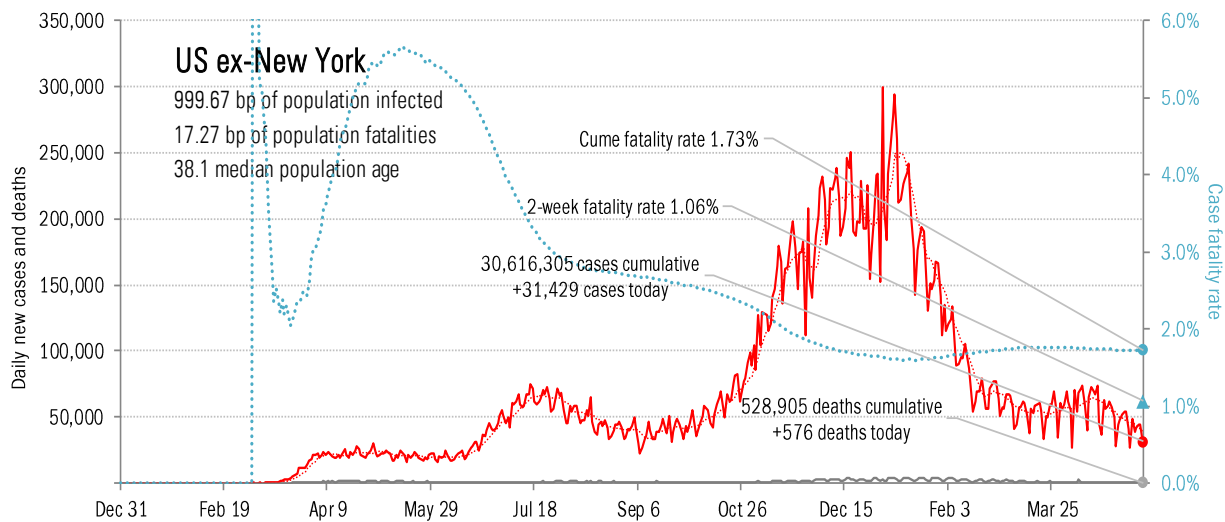
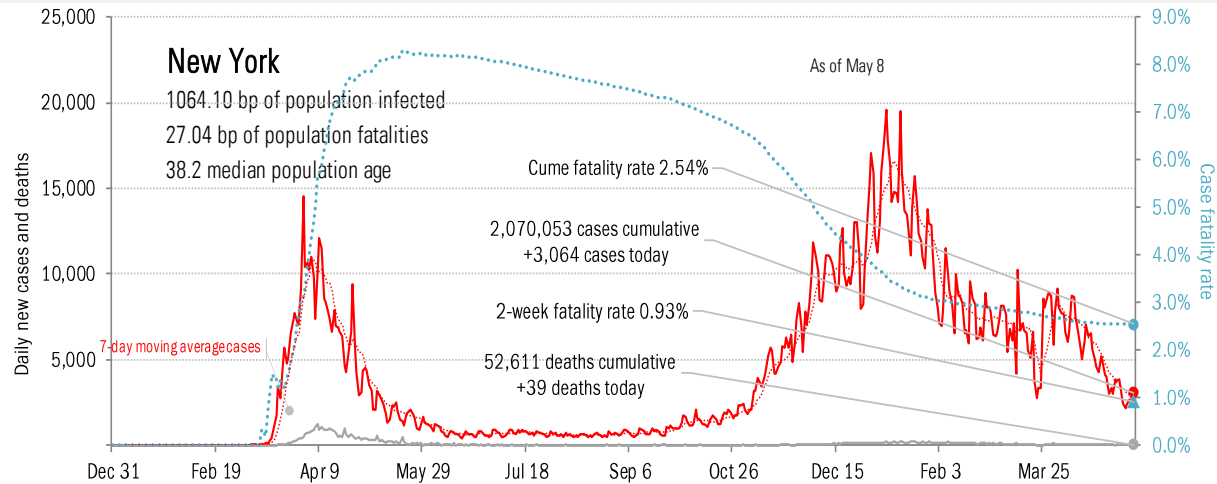
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



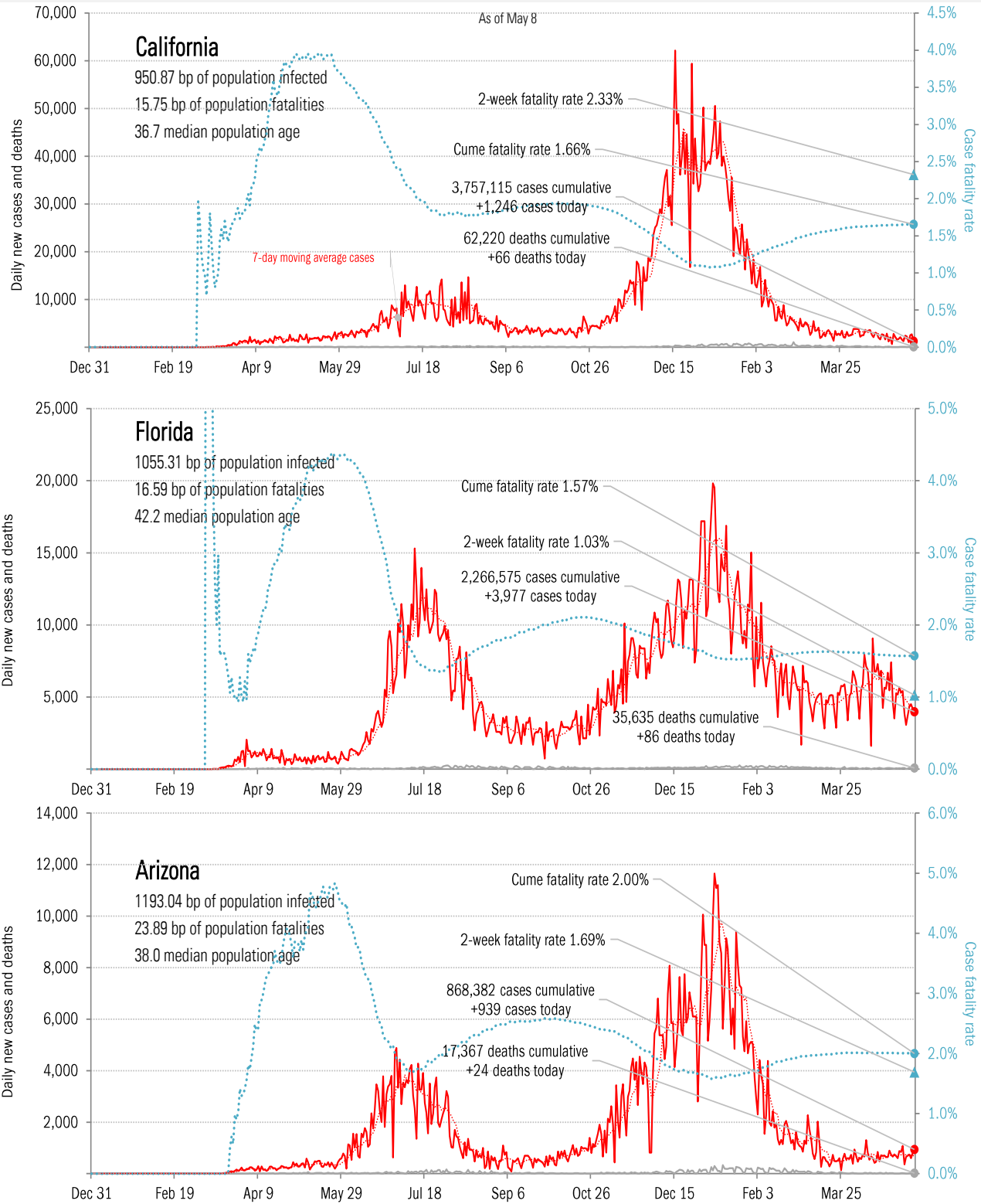
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



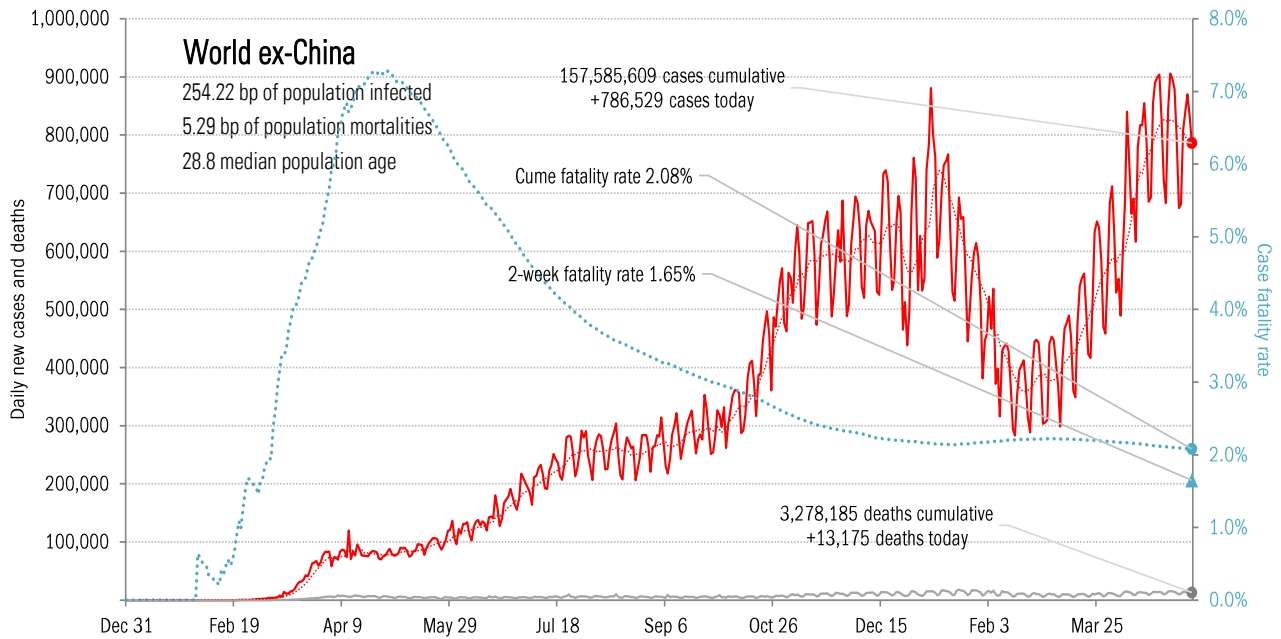
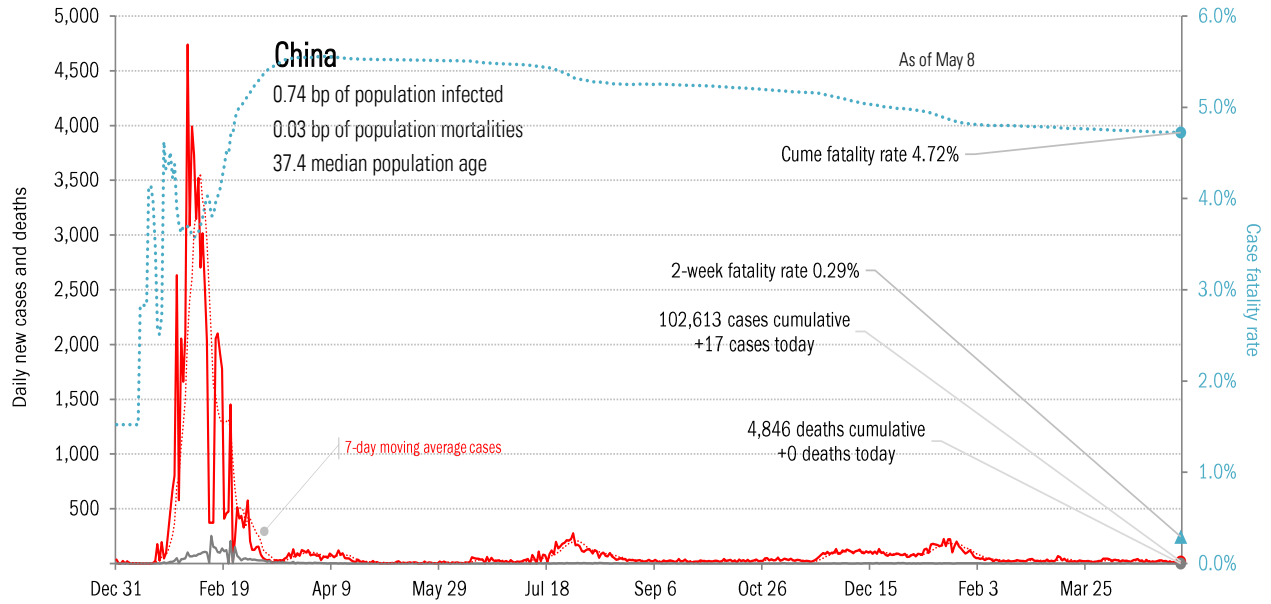
Source: [Johns Hopkins](#), TrendMacro calculations

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



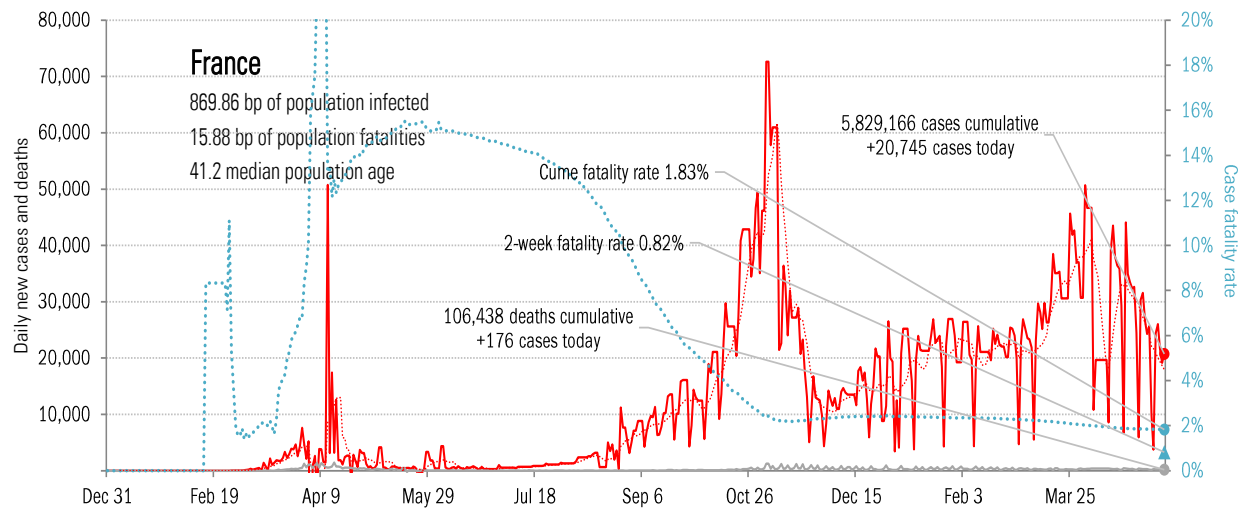
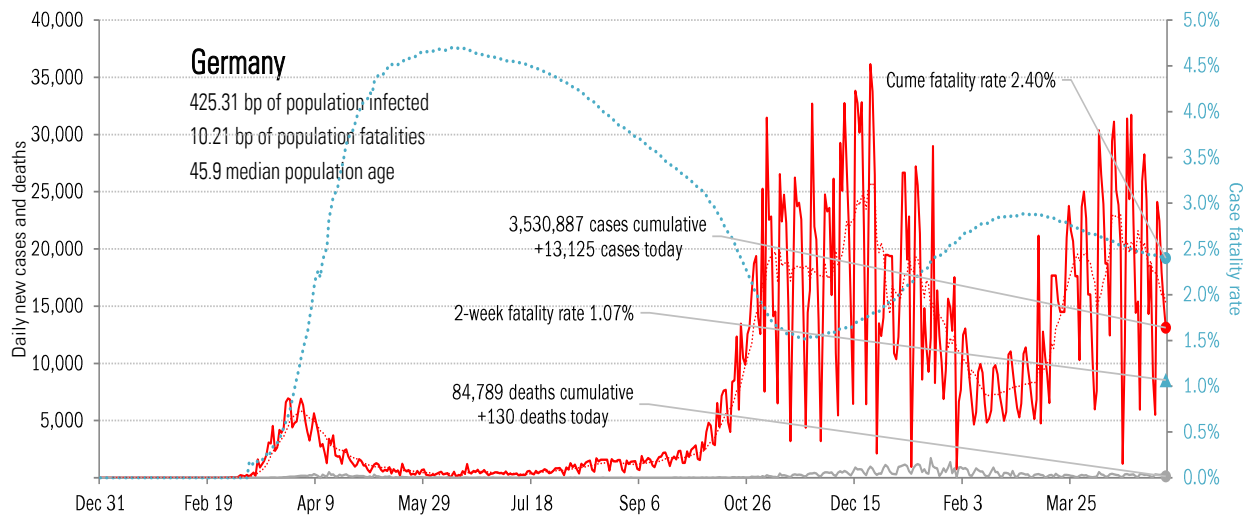
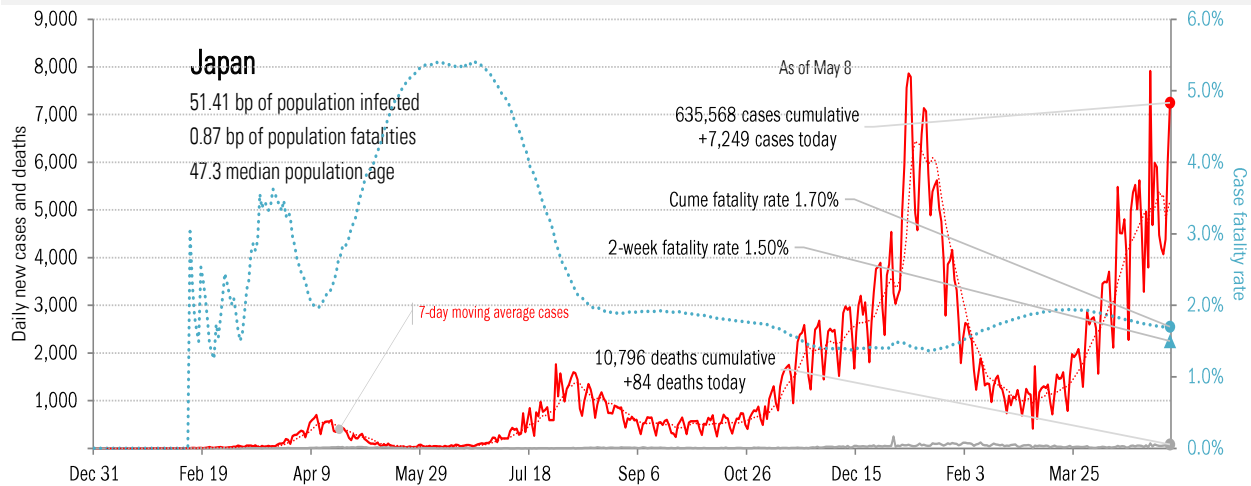
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



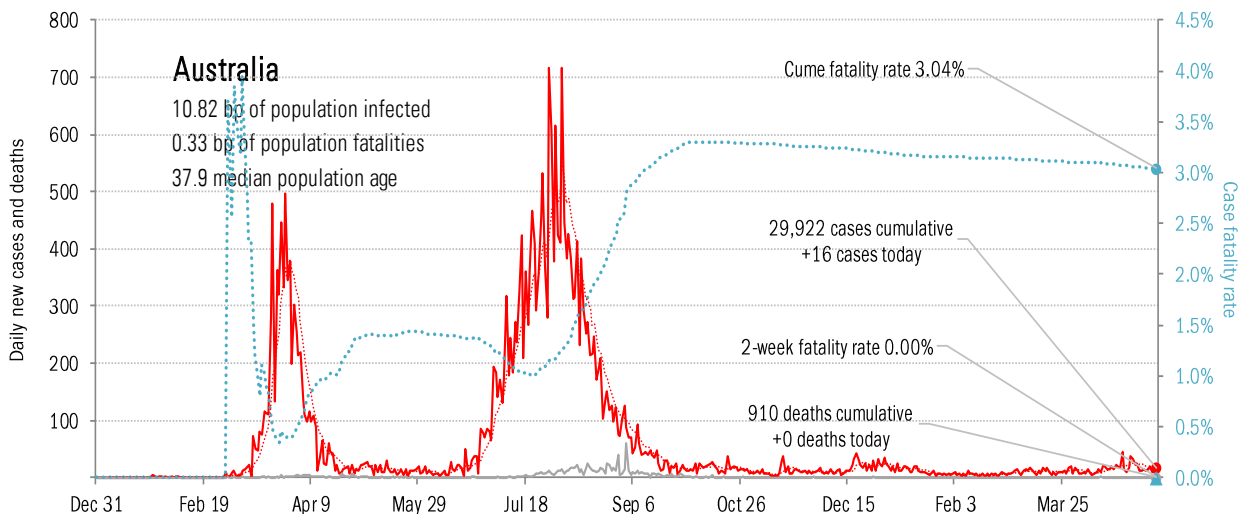
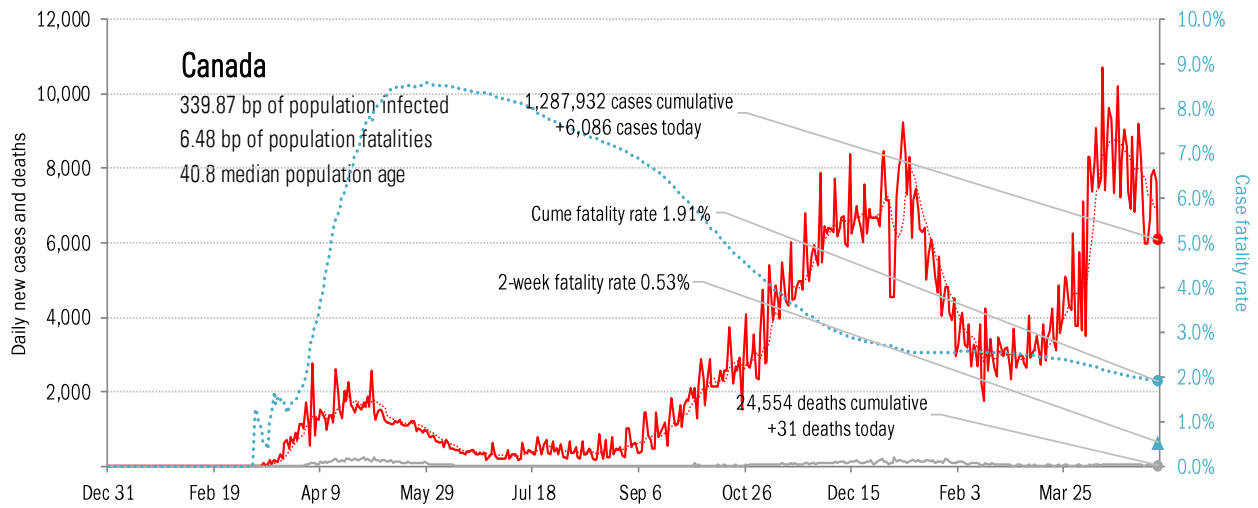
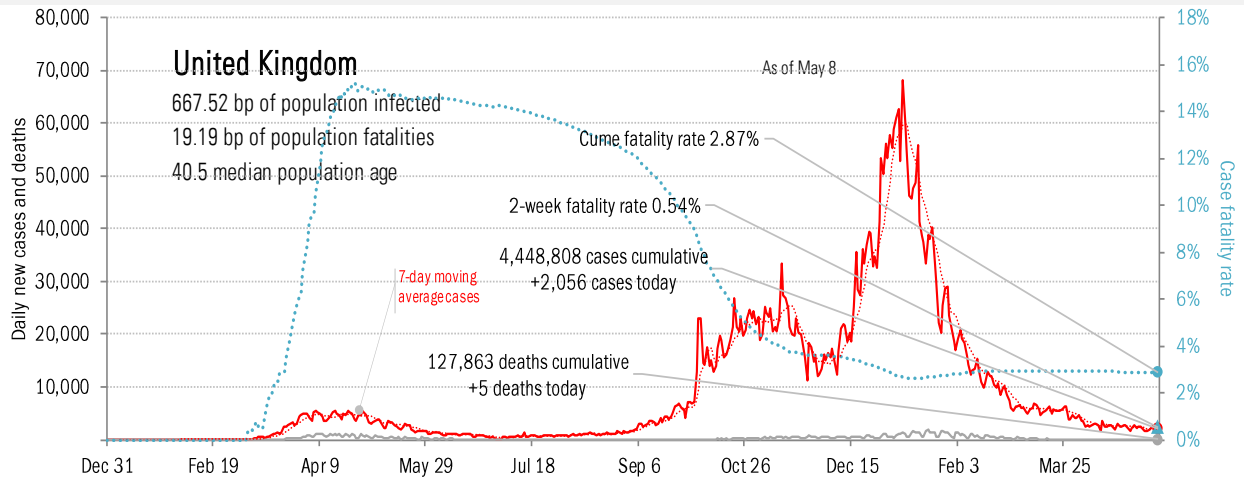
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



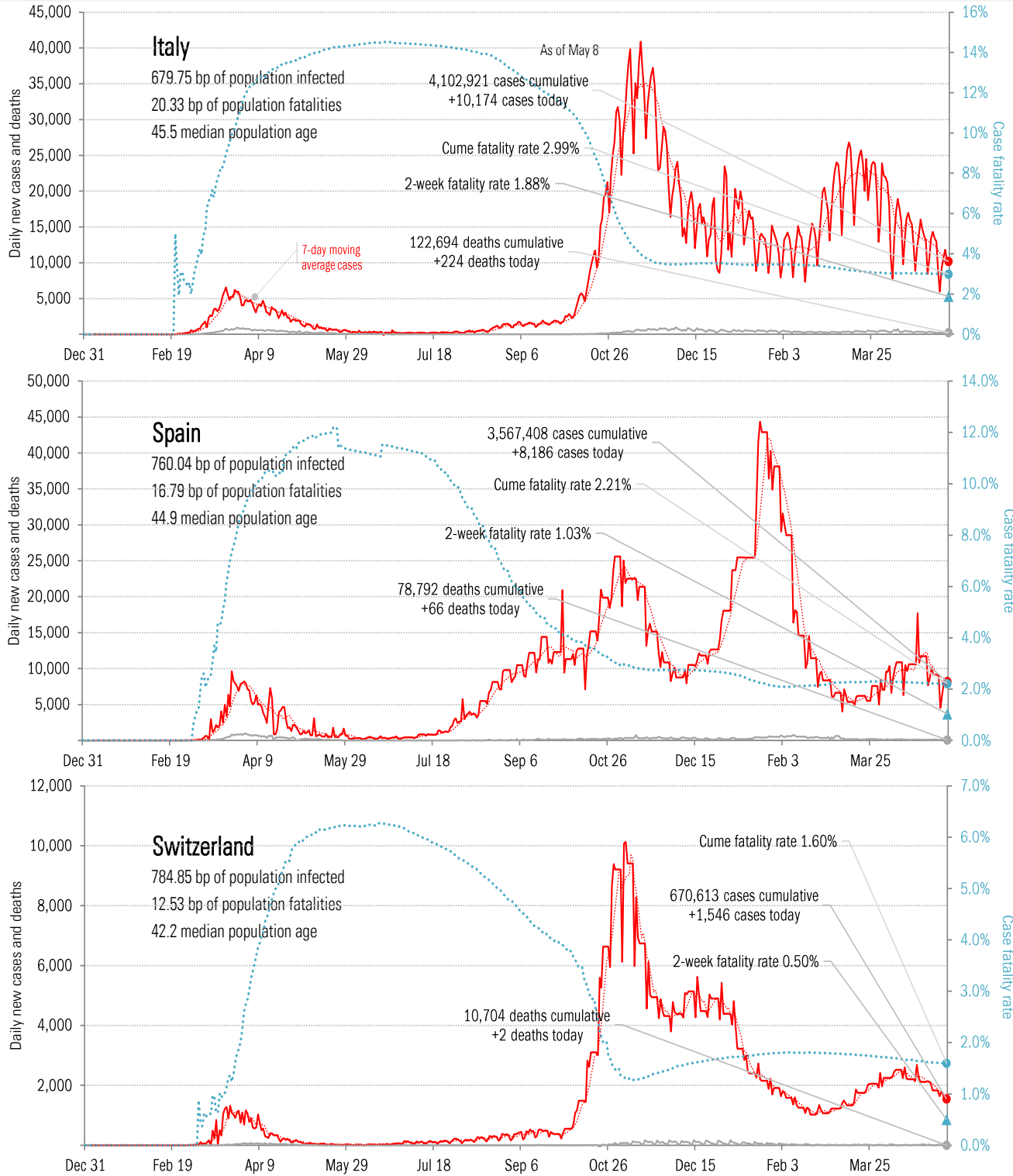
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



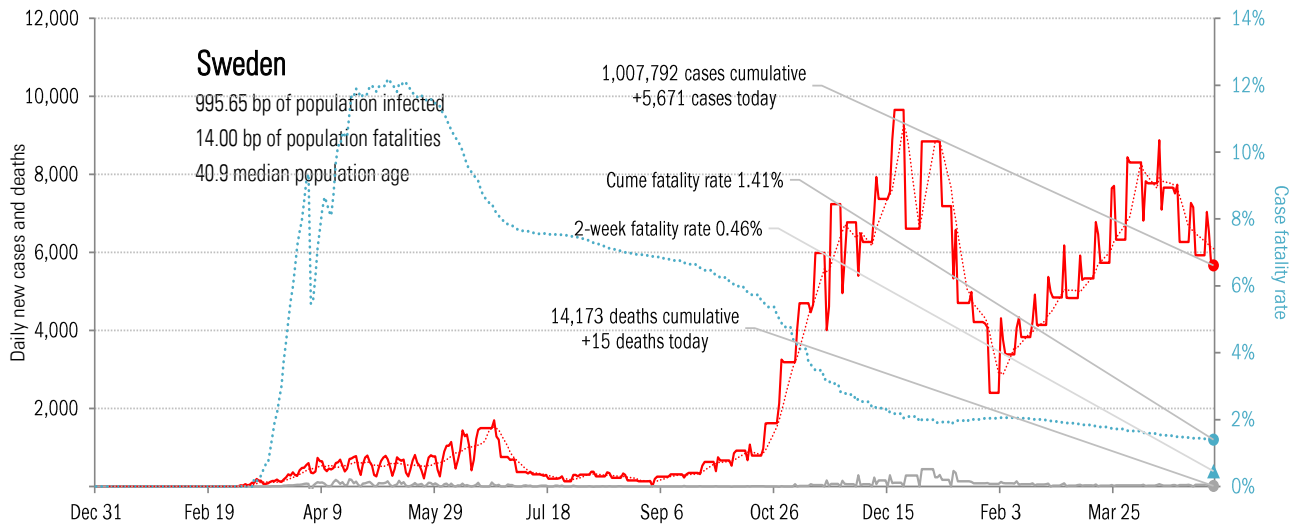
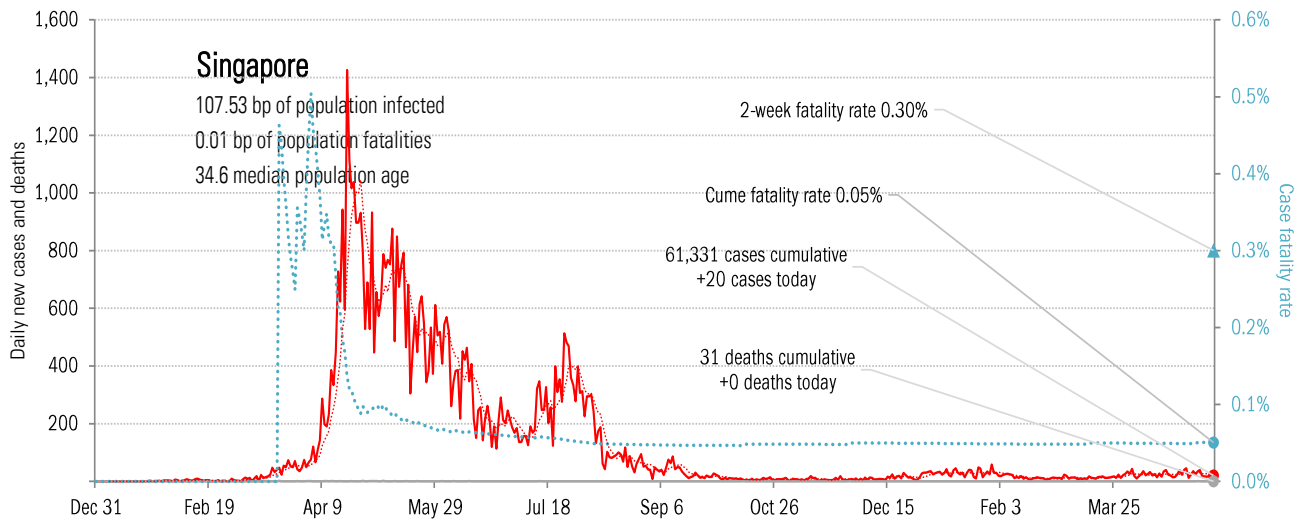
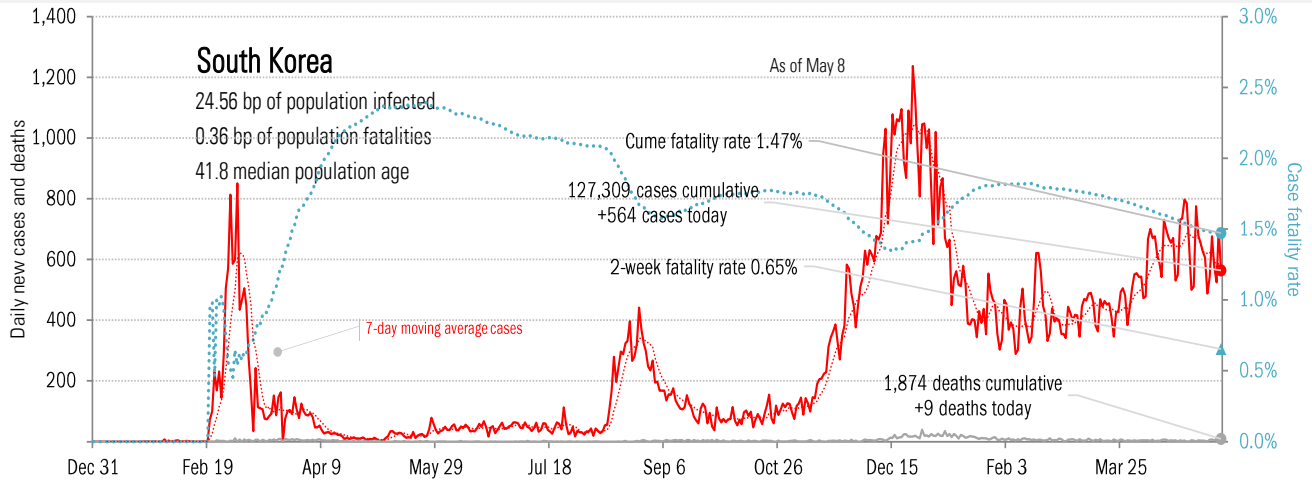
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



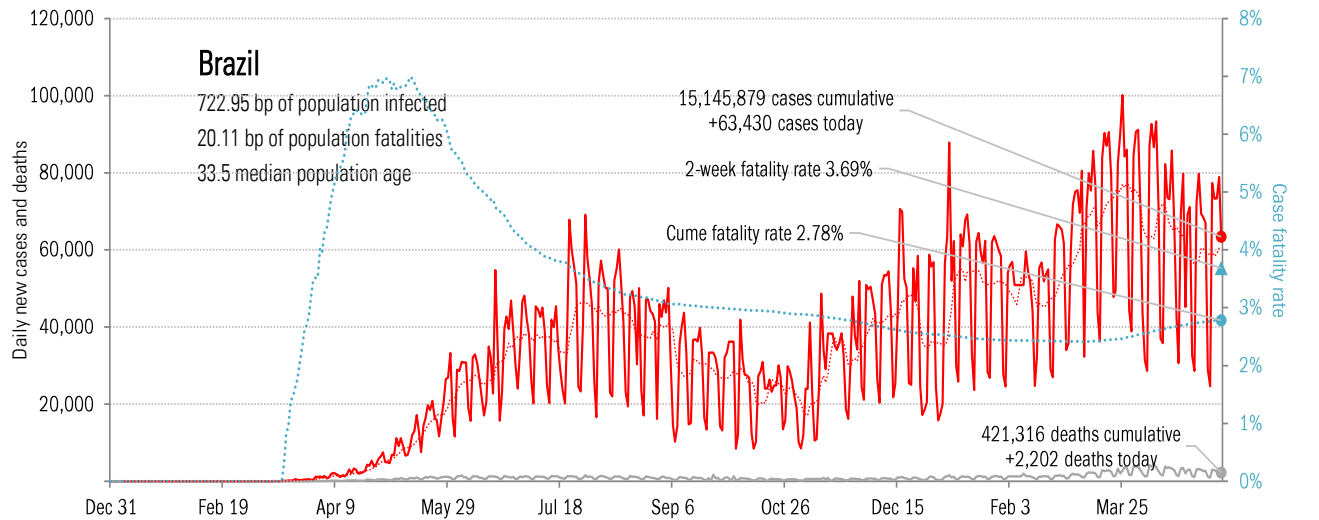
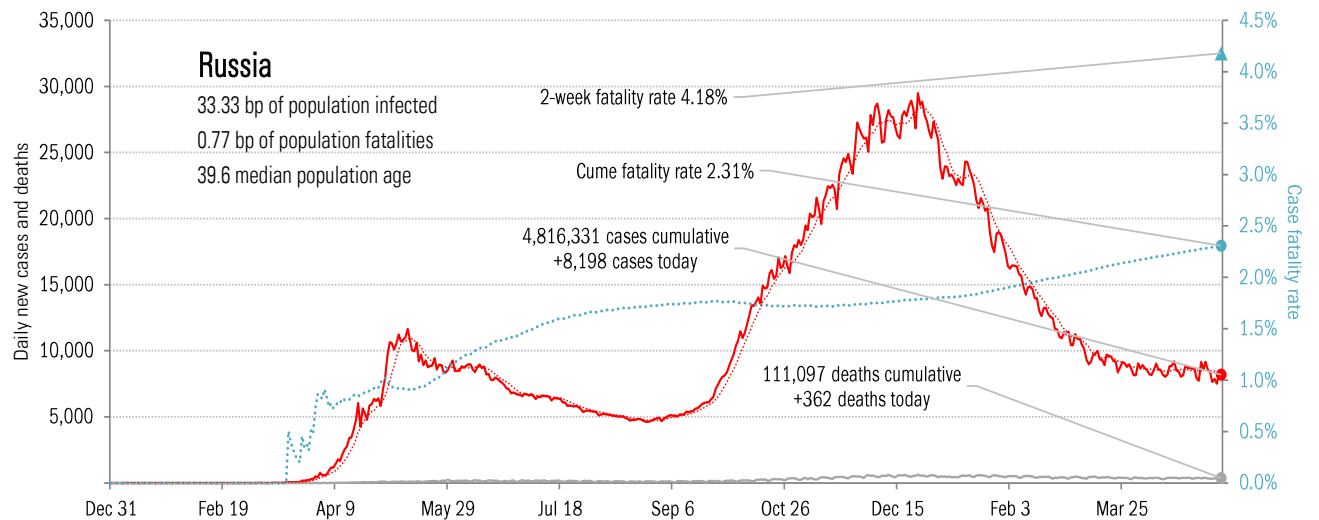
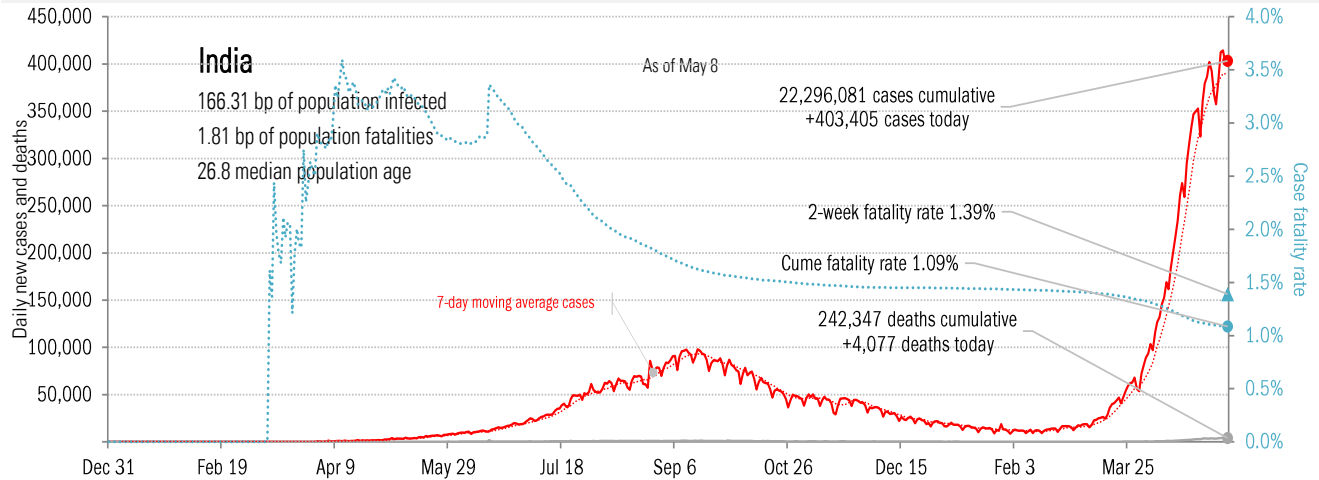
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



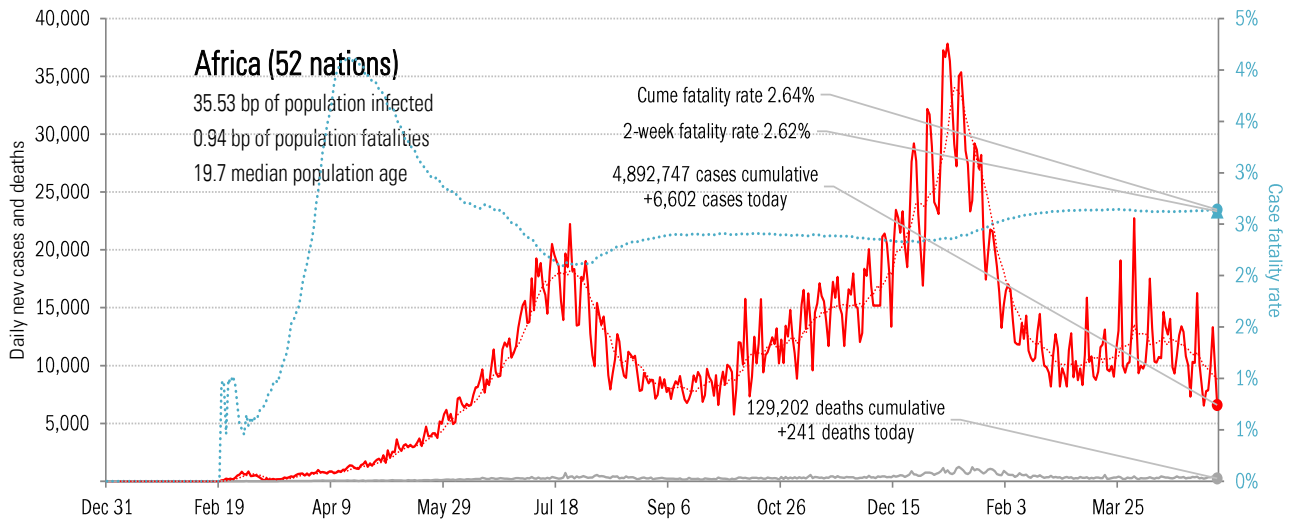
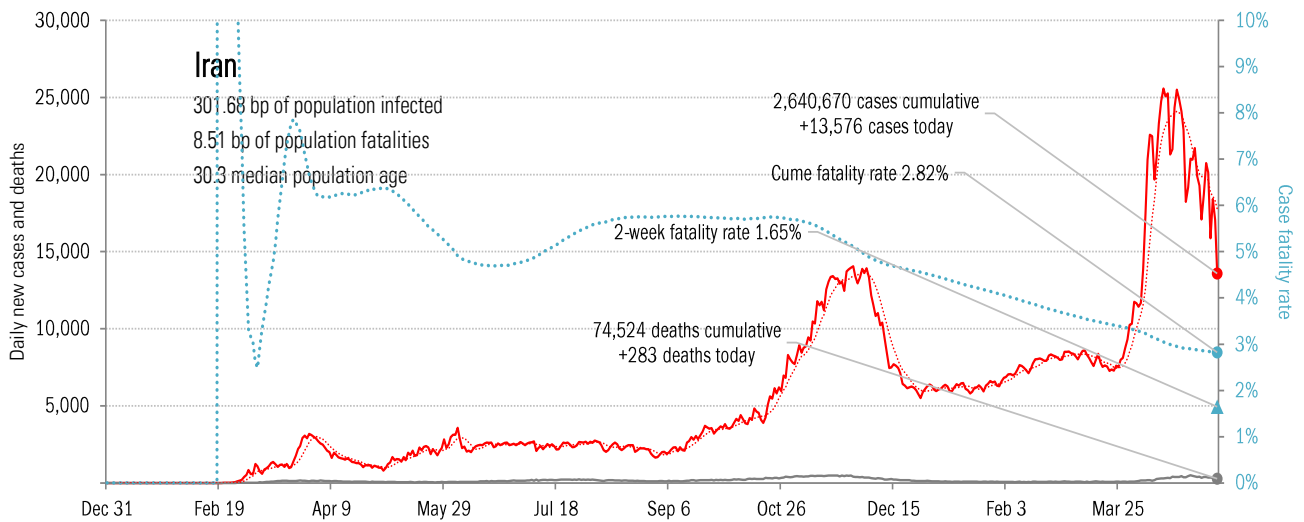
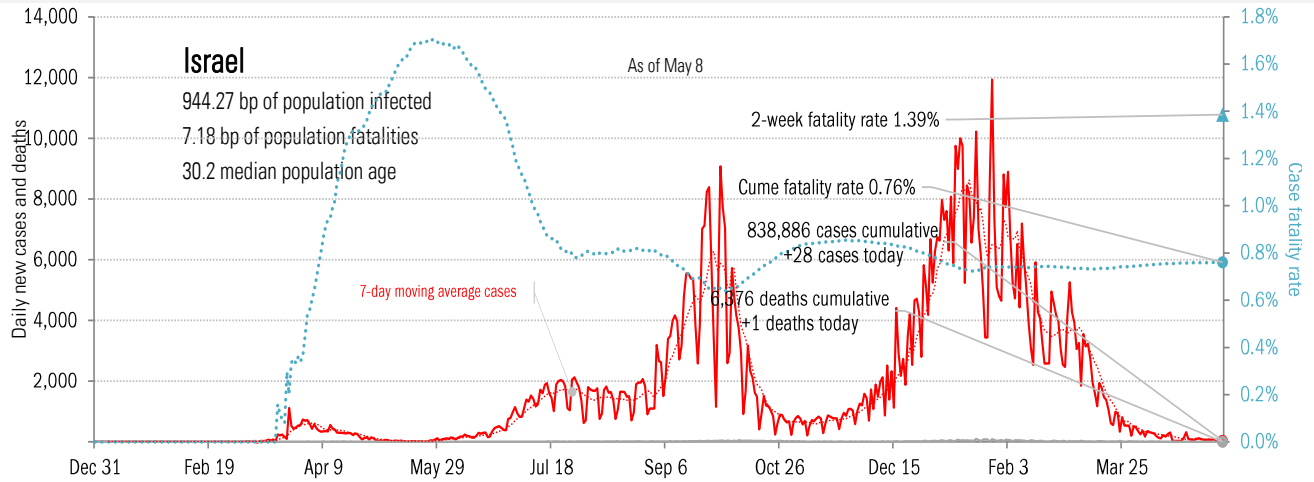
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



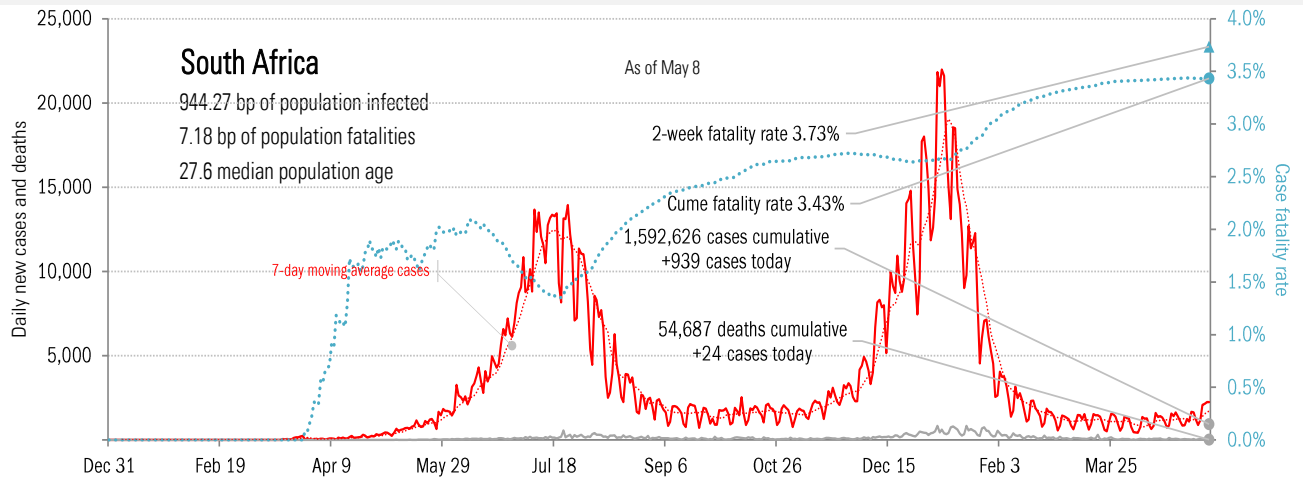
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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