

Data Insights: Covid-2019 Monitor

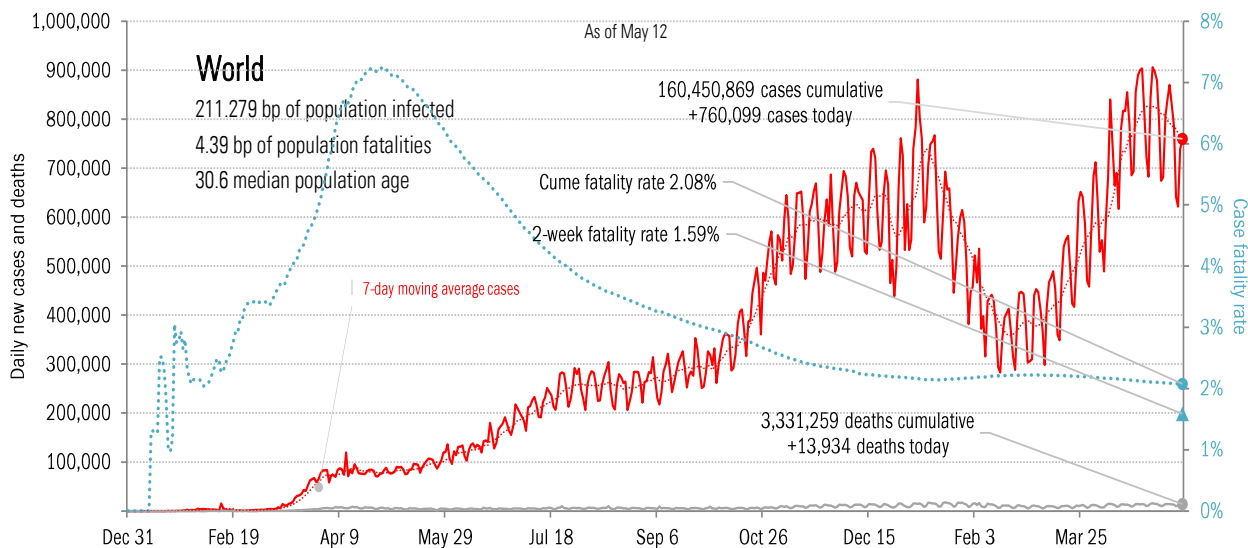
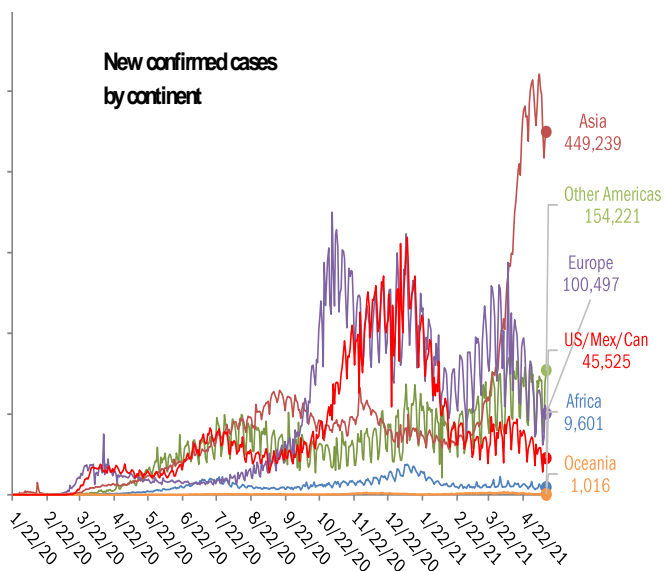
Thursday, May 13, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+362,727	India	+4,120
Brazil	+76,692	Brazil	+2,494
United States	+35,878	United States	+848
Argentina	+24,475	Peru	+525
France	+21,498	Argentina	+496
Colombia	+16,993	Colombia	+490
Iran	+16,409	Iran	+366
Turkey	+13,029	Ukraine	+364
Peru	+12,269	Russia	+347
Nepal	+9,238	Poland	+343
+589,208		+10,393	
World	+760,099	World	+13,934
Top ten	78%	Top ten	75%

New confirmed cases by continent



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

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The US scorecard

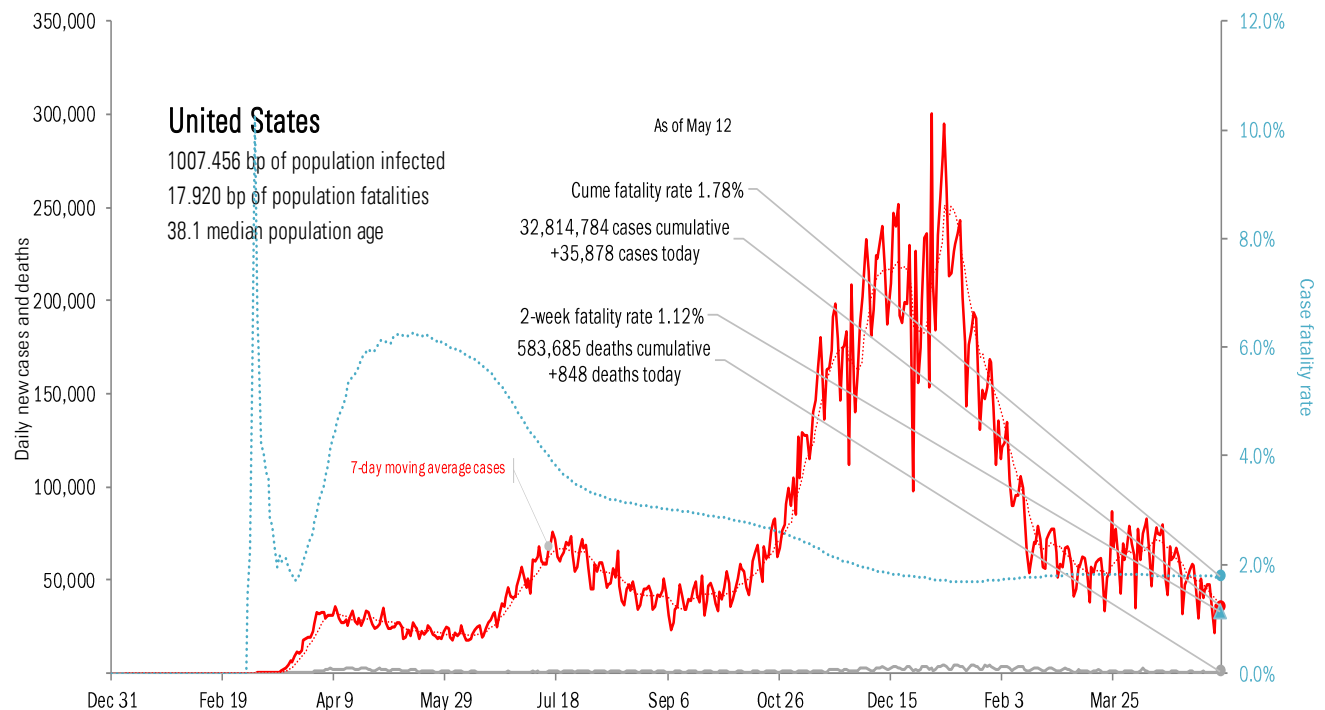
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
FL	+3,184		CA	+107		IL	+49		CA	3,763,281		CA	62,472		TX	242,383		RI	88%	MI	27%
MI	+2,765		TX	+66		GA	+28		TX	2,922,680		NY	52,825		CA	232,240		MA	84%	ME	19%
TX	+2,637		NY	+55		CA	+14		FL	2,278,549		TX	50,785		FL	172,361		PA	83%	MD	19%
NY	+2,024		FL	+51		CO	+14		NY	2,077,563		FL	35,882		NY	130,736		MD	82%	CO	18%
PA	+1,937		OK	+46		OR	+14		IL	1,359,651		PA	26,609		GA	103,963		MI	81%	MN	16%
IL	+1,808		GA	+41		CH	+12		PA	1,180,020		NJ	25,882	#N/A	0	CT	81%	WA	15%		
CA	+1,502		NJ	+41		KY	+10		GA	1,112,297		IL	24,640		CH	169,493		MO	80%	RI	14%
NC	+1,493		PA	+35		NC	+8		CH	1,087,182		GA	20,432		IL	77,815		FL	79%	PA	14%
CH	+1,449		CO	+31		NH	+7		NJ	1,009,093		MI	19,528		KY	73,238		GA	79%	IL	14%
CO	+1,213		NC	+29		WI	+7		NC	986,443		CH	19,441		MI	68,014		DC	79%	ID	14%
+20,012			+502			+163			17,776,759			338,496			1,270,243						
All states	+35,878			+848			-205		All states	32,814,784			583,685			2,277,129		All states	70%		67%
Top ten	56%			59%			-80%		Top ten	54%			58%			56%		Median	72%		10%

Some states not reporting

Five most improved US states

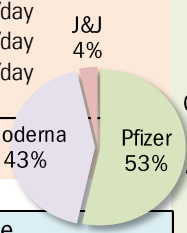
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
PA	-296	MI	-87	LA	-130	DC	+84 bp
NE	-234	AZ	-17	AZ	-51	VT	+63 bp
CT	-222	KY	-13	MO	-32	MD	+62 bp
AZ	-214	CH	-13	TN	-28	MA	+61 bp
TX	-187	PA	-13	AR	-26	OR	+55 bp



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

Rolling out the vaccines in the US and the world

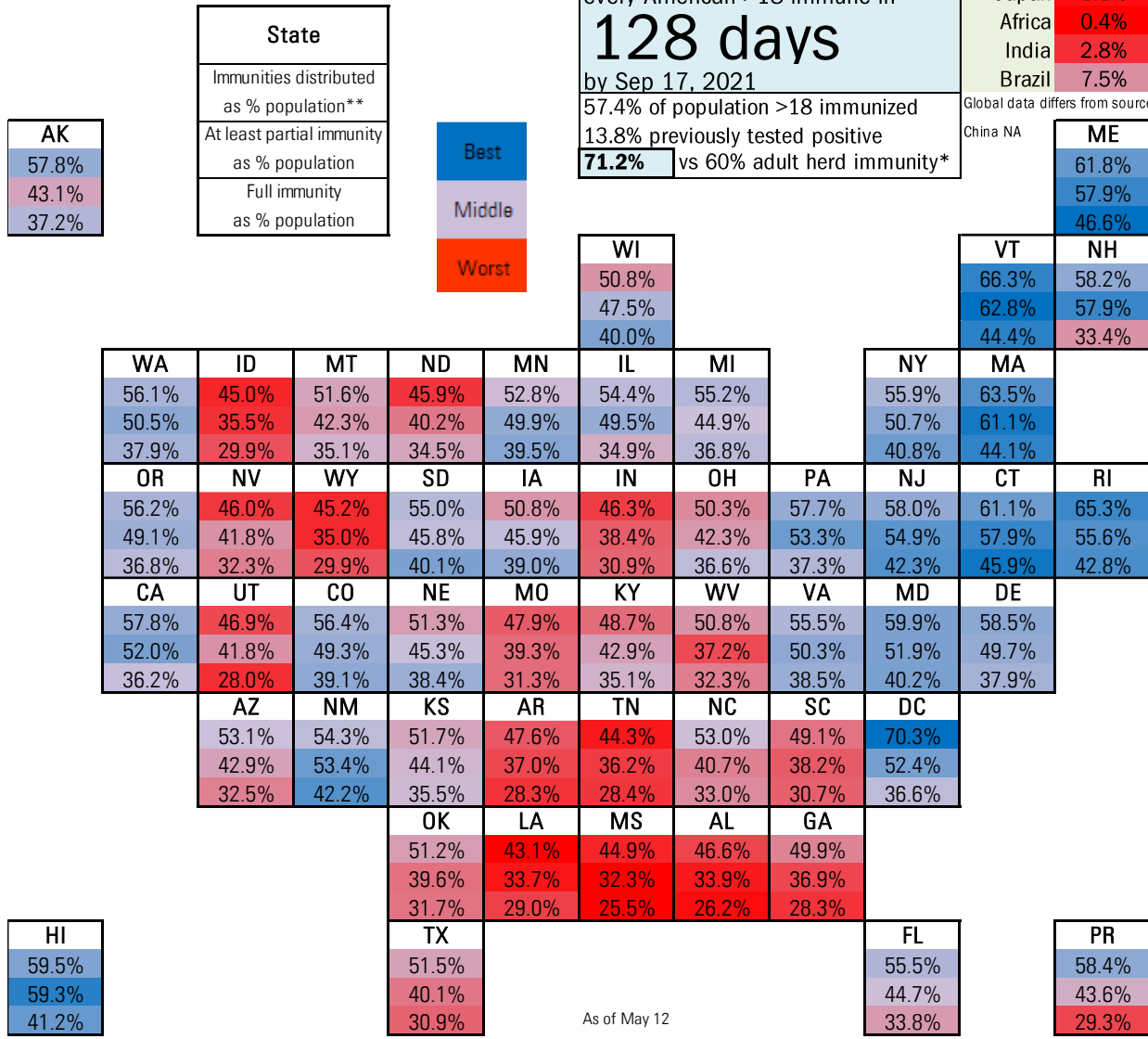
US overall	Over last day	Immunity	Full	Partial
349.26 million doses distributed	+3.04 million/day	US	35.2%	46.0%
273.28 million doses administered	+1.58 million/day	UK	27.2%	52.6%
158.27 million persons partially immunized	+0.55 million/day	France	12.4%	27.5%
121.29 million persons fully immunized	+1.09 million/day	Spain	13.9%	30.6%
		Germany	9.9%	34.1%
		Italy	13.1%	29.3%
		Australia	1.8%	0.6%
		Israel	58.8%	62.7%
		Canada	3.5%	41.3%
		Japan	1.1%	3.0%
		Africa	0.4%	1.2%
		India	2.8%	10.0%
		Brazil	7.5%	15.7%



78.2% of distributed doses administered
 47.4% of US pop partial 36.3% full immunity

At today's dosing pace,
 every American >18 immune in
128 days
 by Sep 17, 2021
 57.4% of population >18 immunized
 13.8% previously tested positive
71.2% vs 60% adult herd immunity*

Global data differs from sources, timing

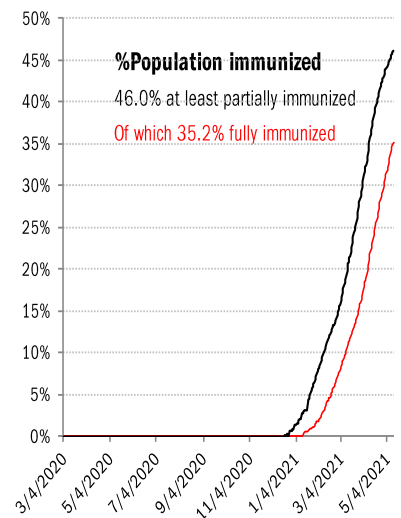
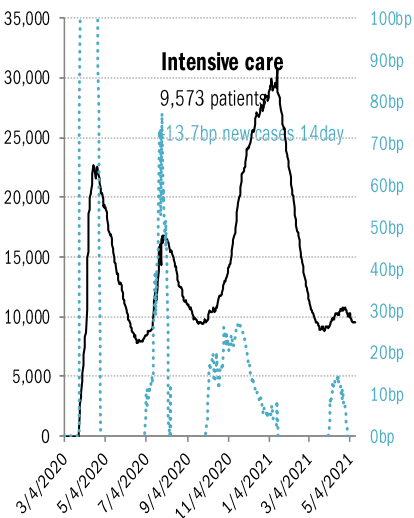
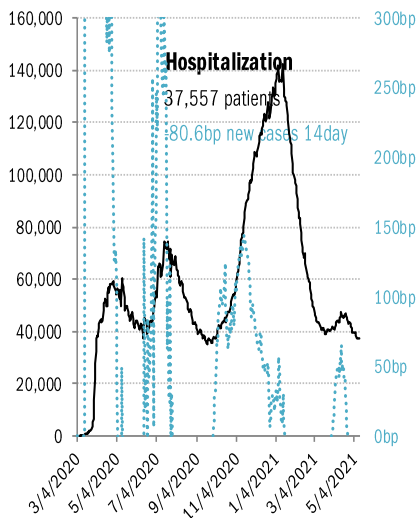
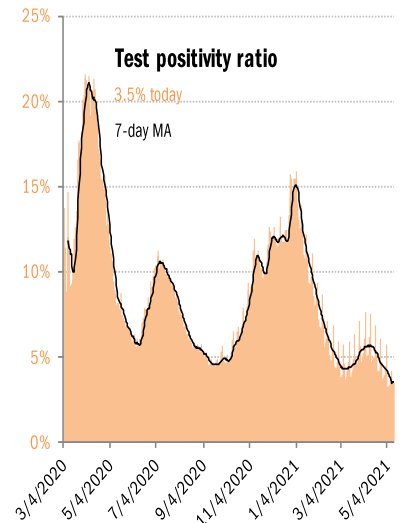
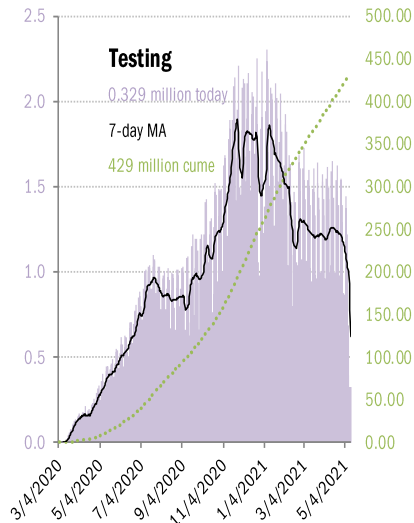
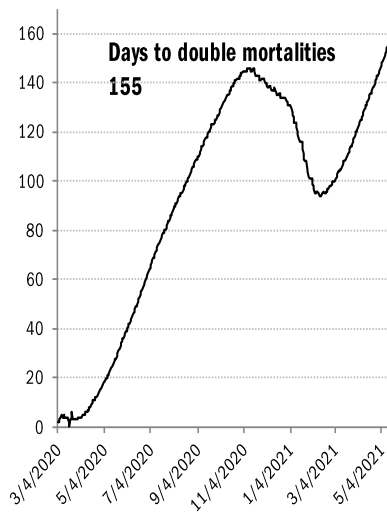
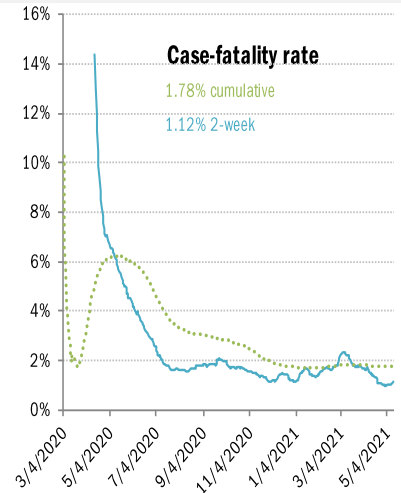
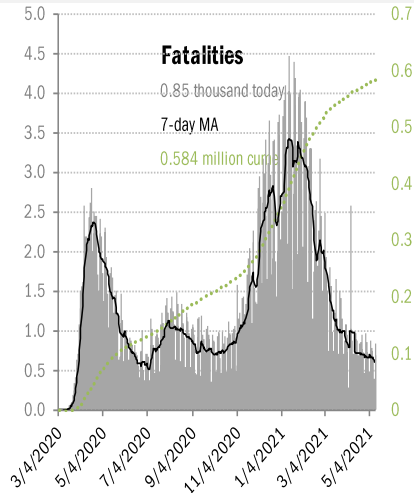
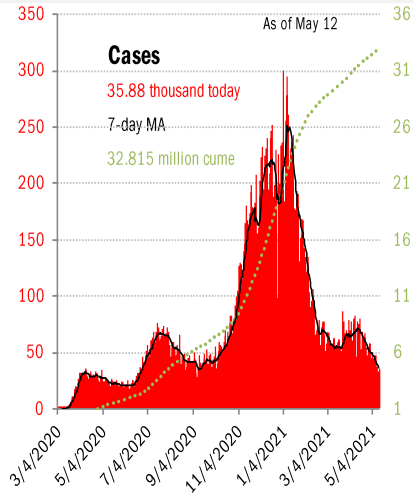


* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.
 ** One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

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

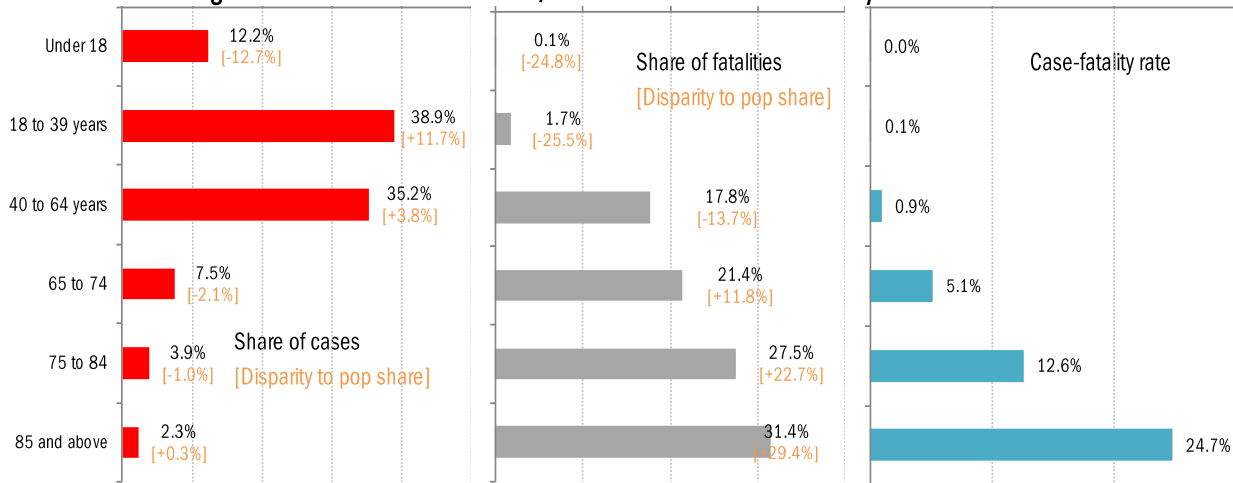
US deep-dive

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

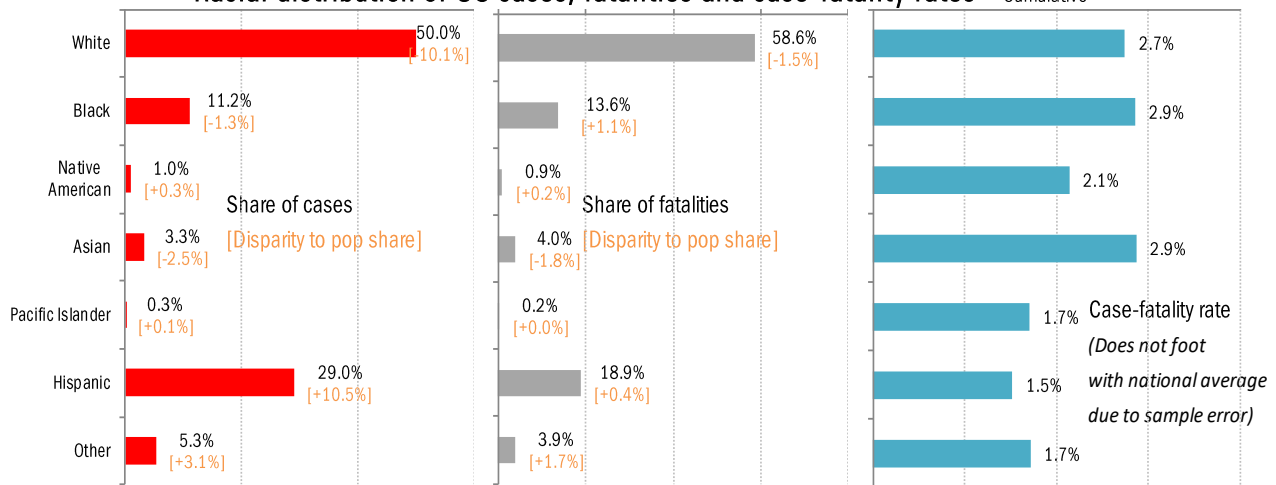


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

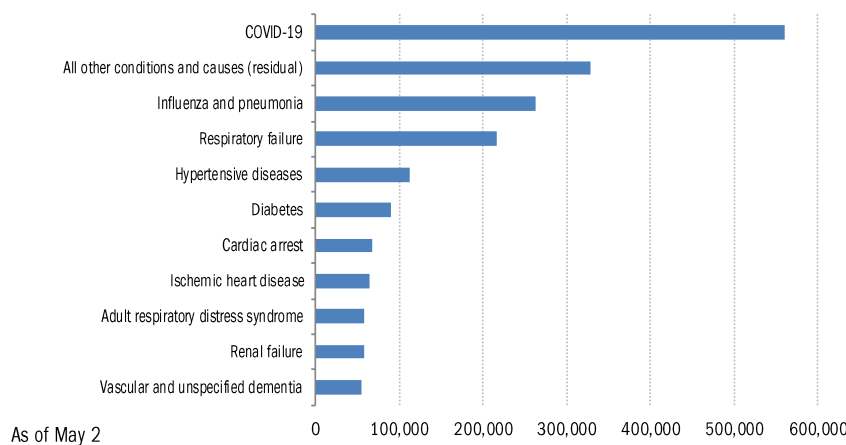


Racial distribution of US cases, fatalities and case-fatality rates



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

[Ohio Lottery to Give 5 People \\$1 Million Each to Encourage Vaccination](#)

Neil Vidgor and Azi Paybarah
New York Times
May 12, 2021

[C.D.C. Advisers Endorse Pfizer Vaccine for Children Ages 12 to 15](#)

Apoorva Mandavilli
New York Times
May 12, 2021

[Distance Learning Began in 1890](#)

Reuven Brenner
Wall Street Journal
May 12, 2021

[Dr. Rand Paul finally asks Fauci to his face — 'Did the NIH fund gain of function research at Wuhan bio-lab!'](#)

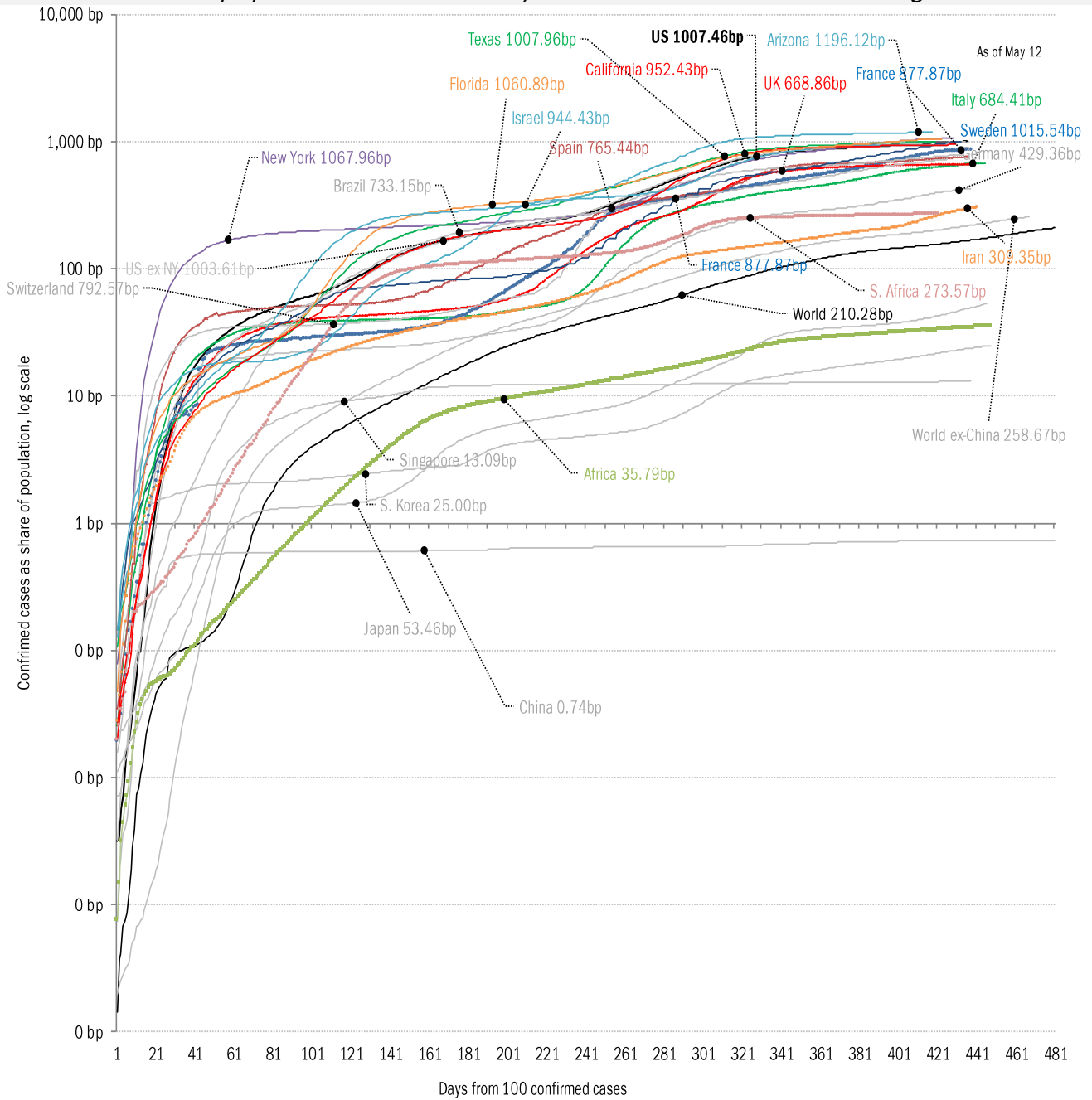
Kane
Citizen Free Press
May 11, 2021

Meme of the day



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

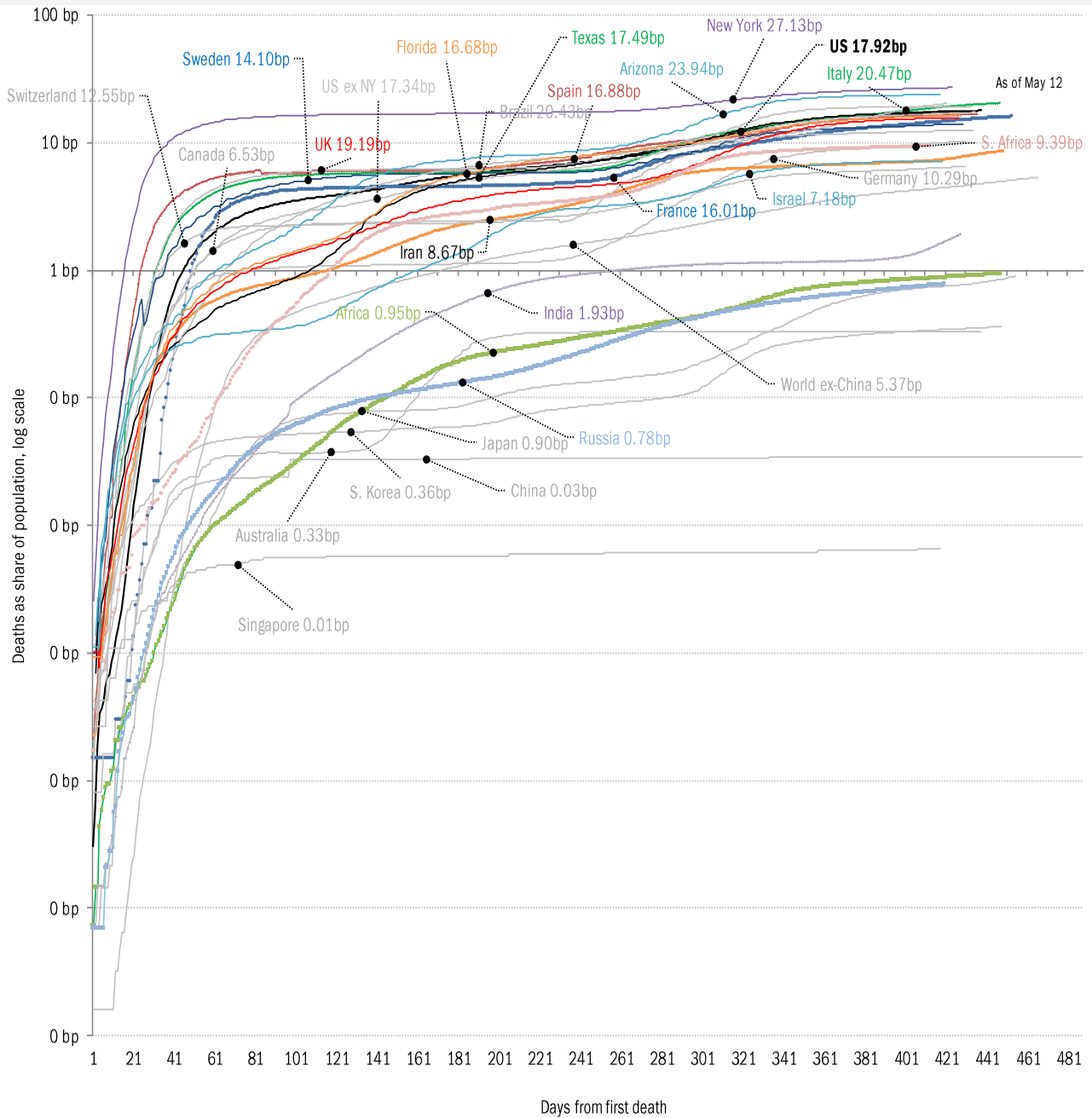
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

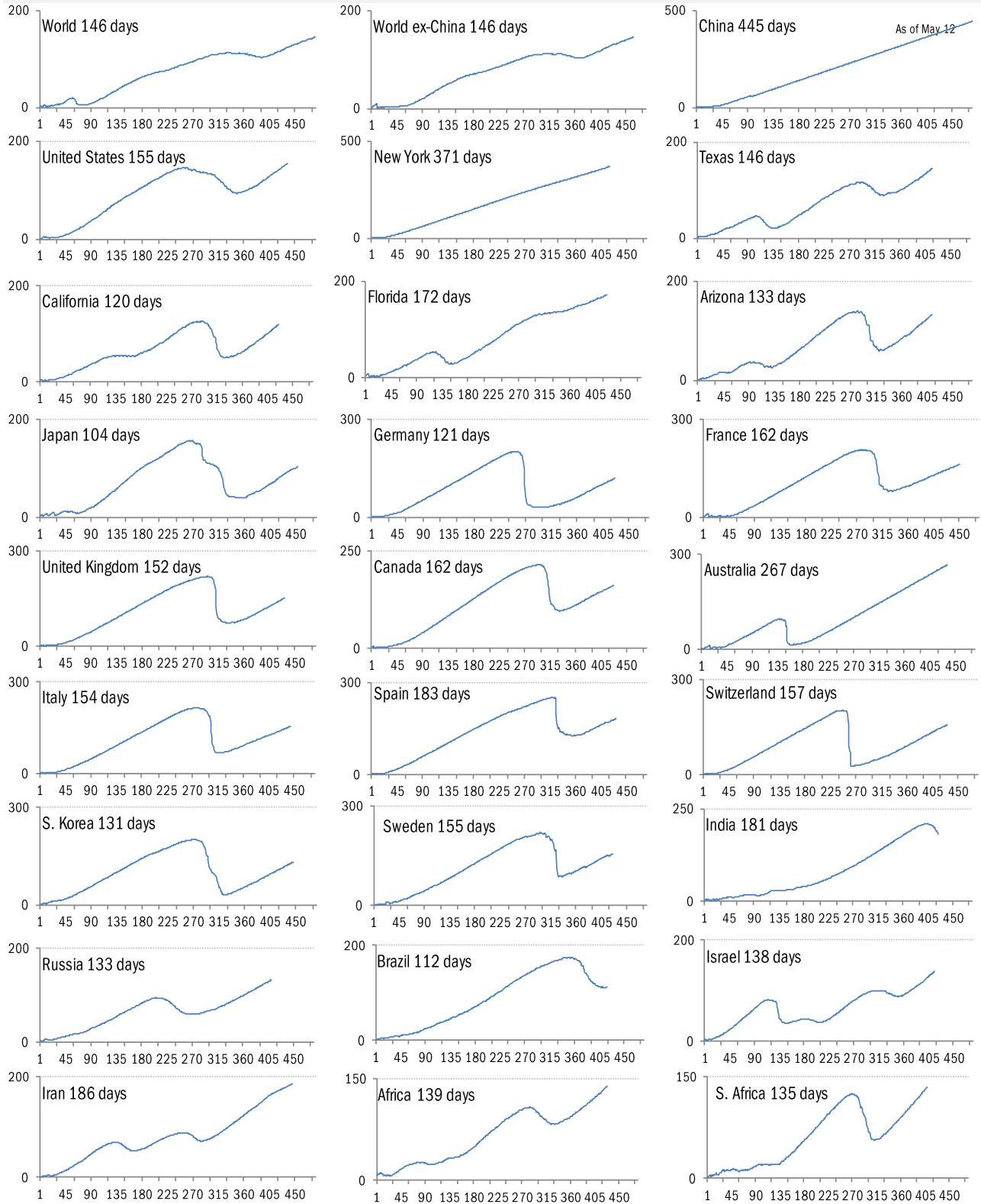


Source: [Johns Hopkins](#), TrendMacro calculations

"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

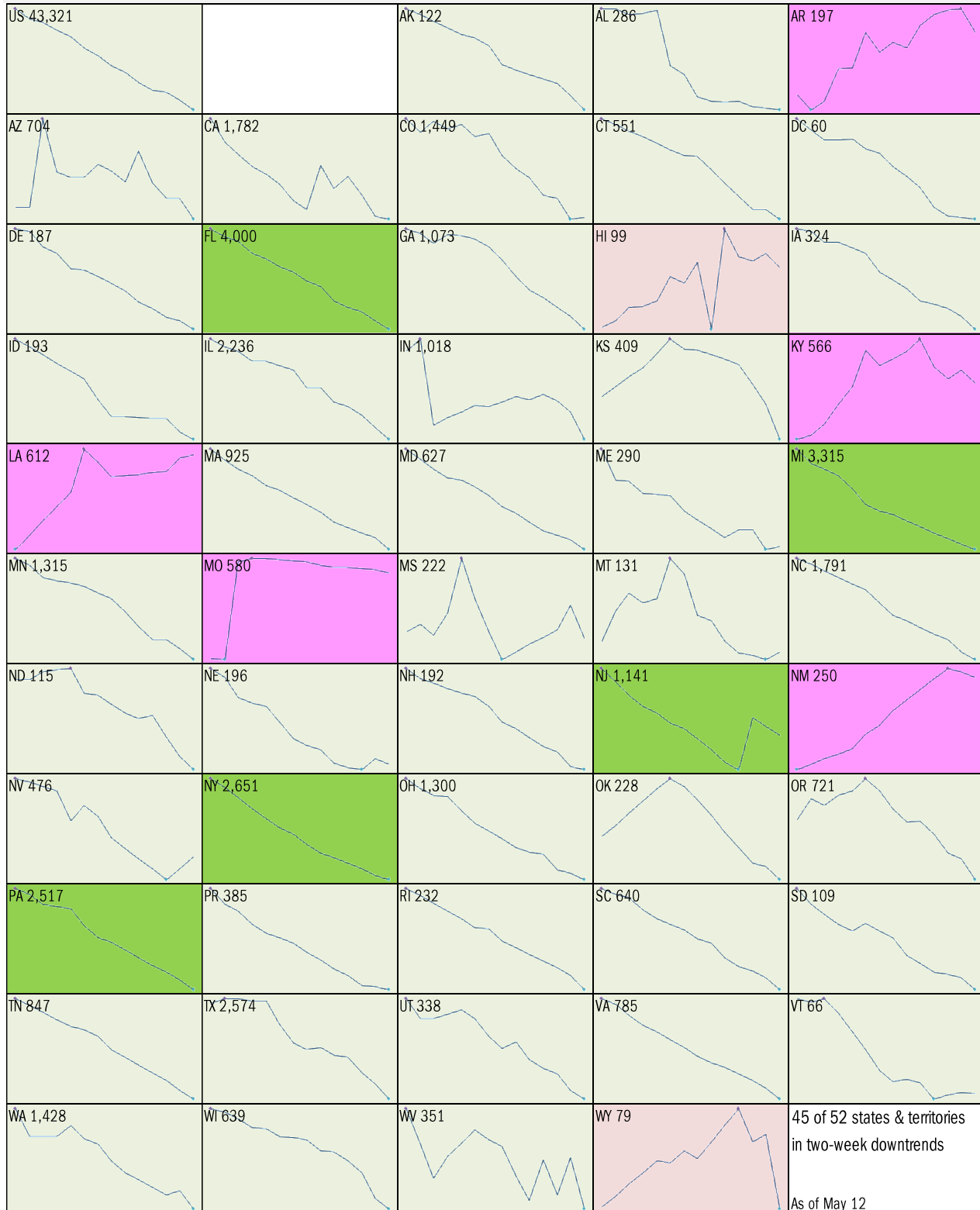


Source: [Johns Hopkins](#), TrendMacro calculations

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

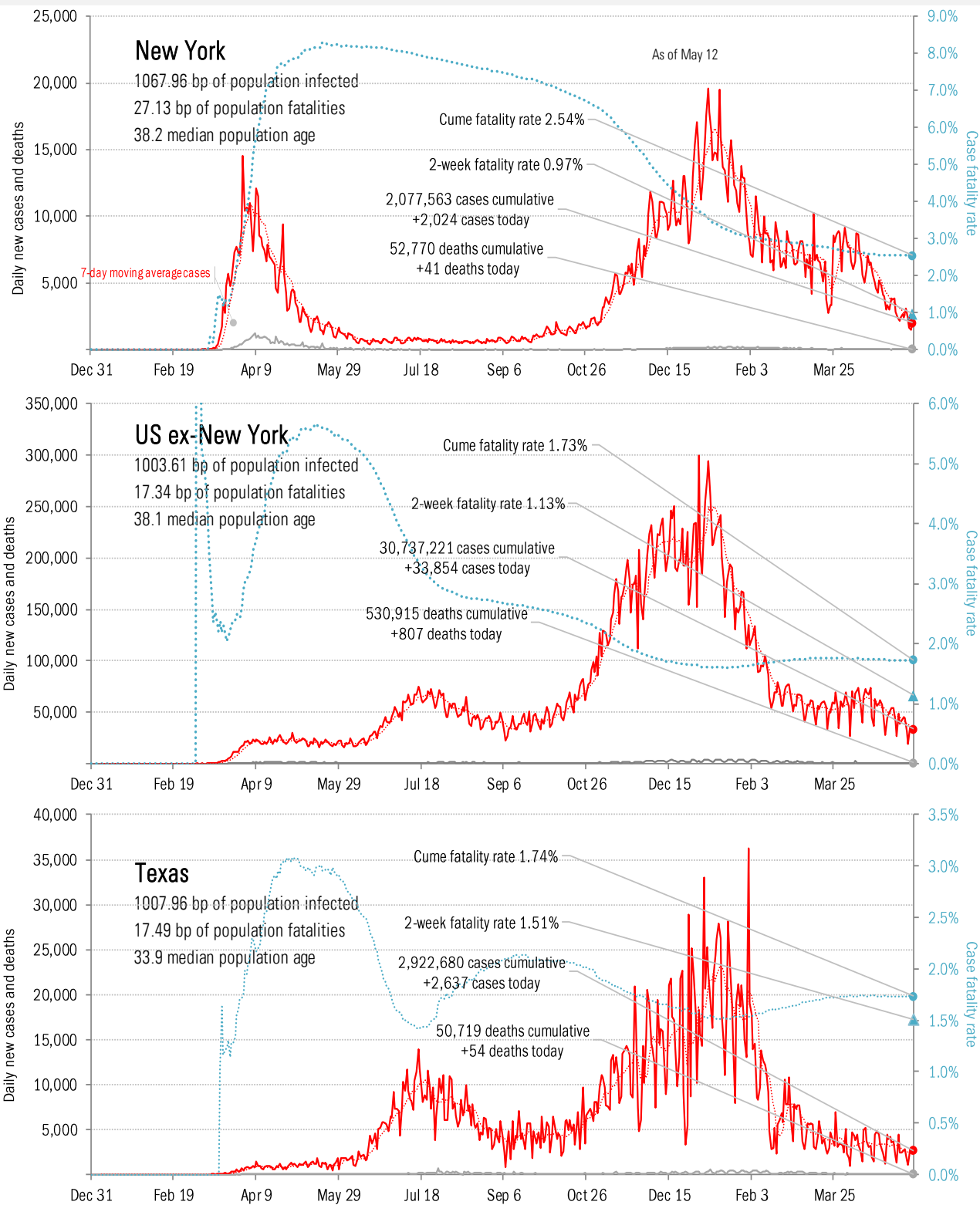
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



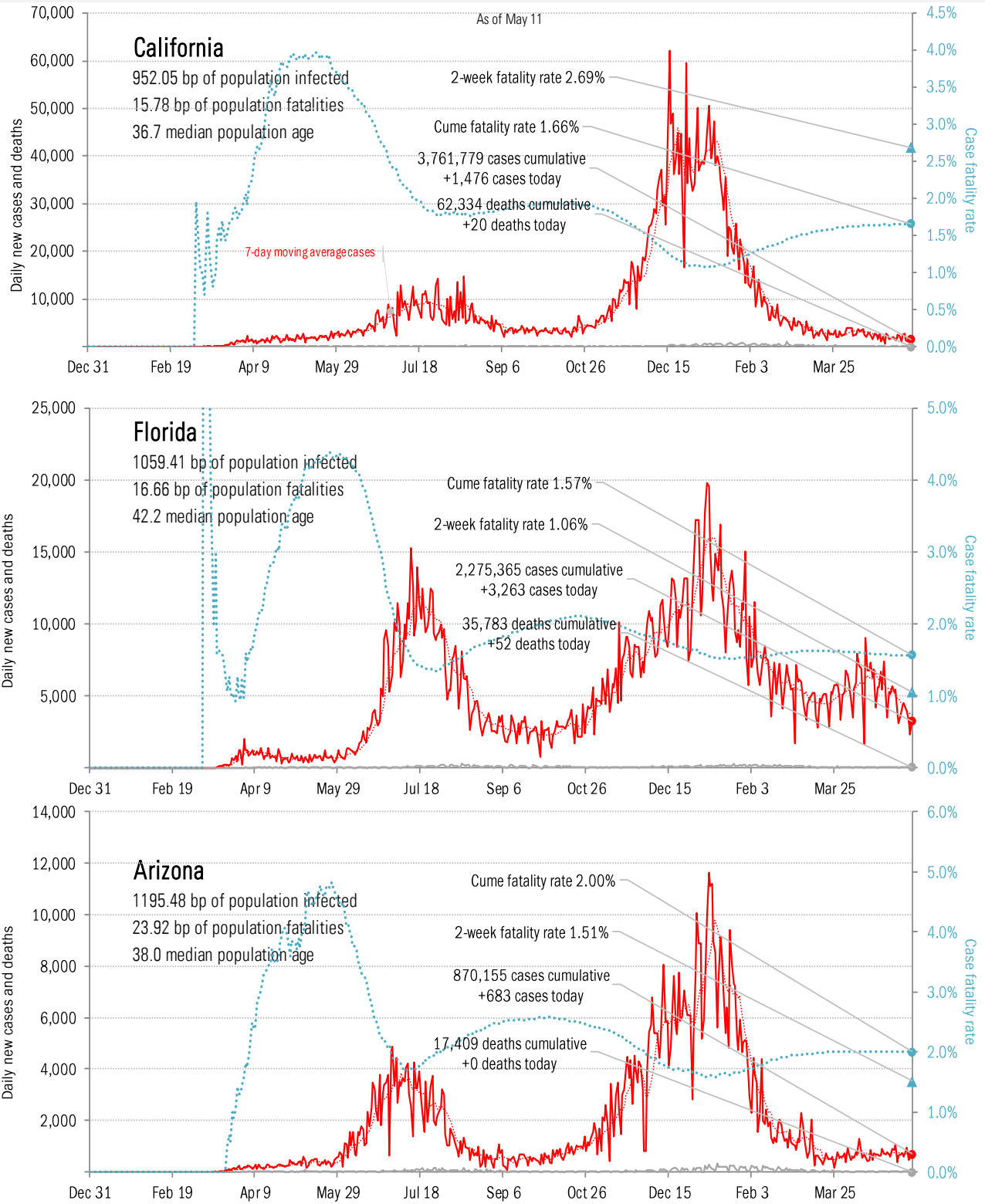
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



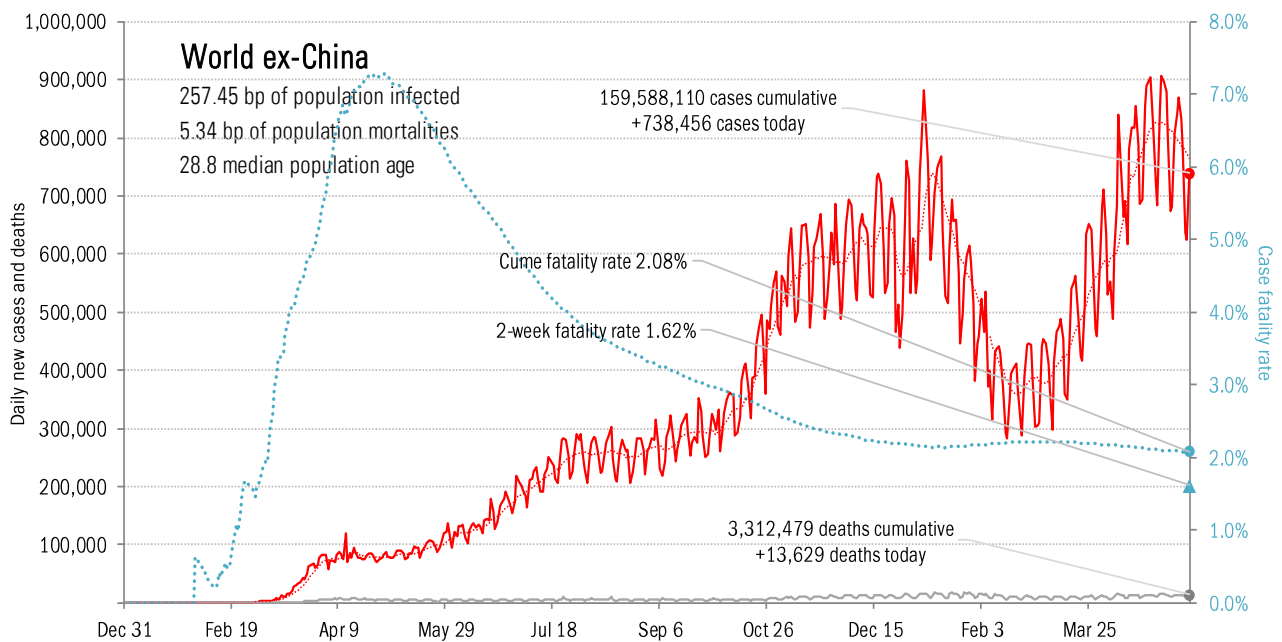
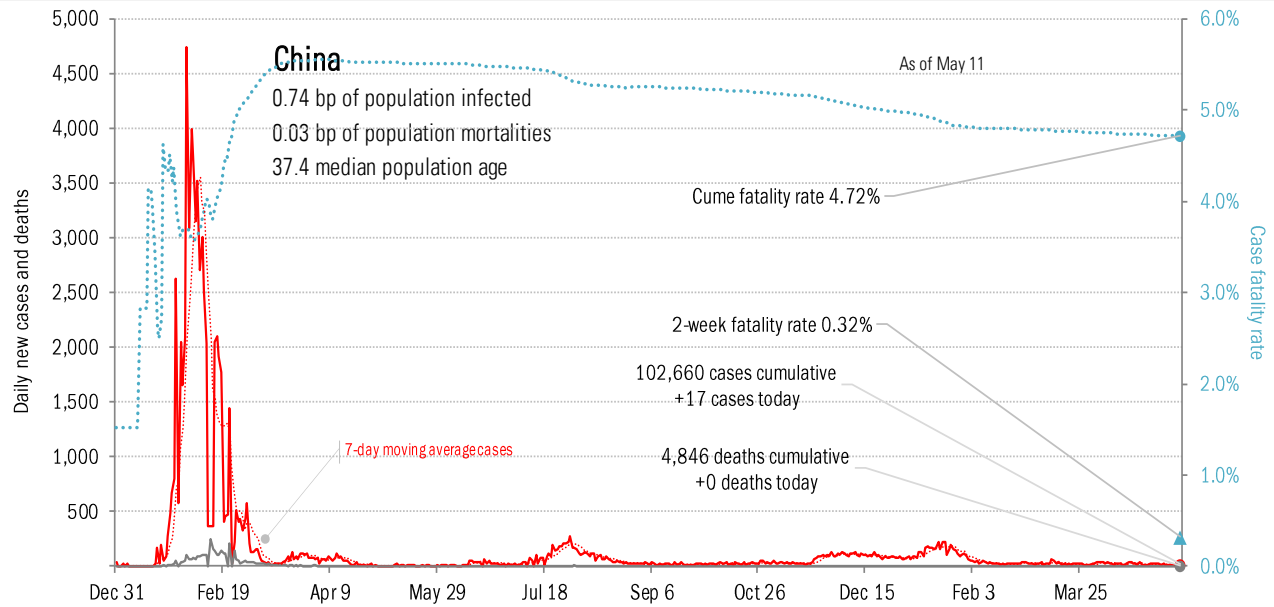
Source: [Johns Hopkins](#), TrendMacro calculations

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



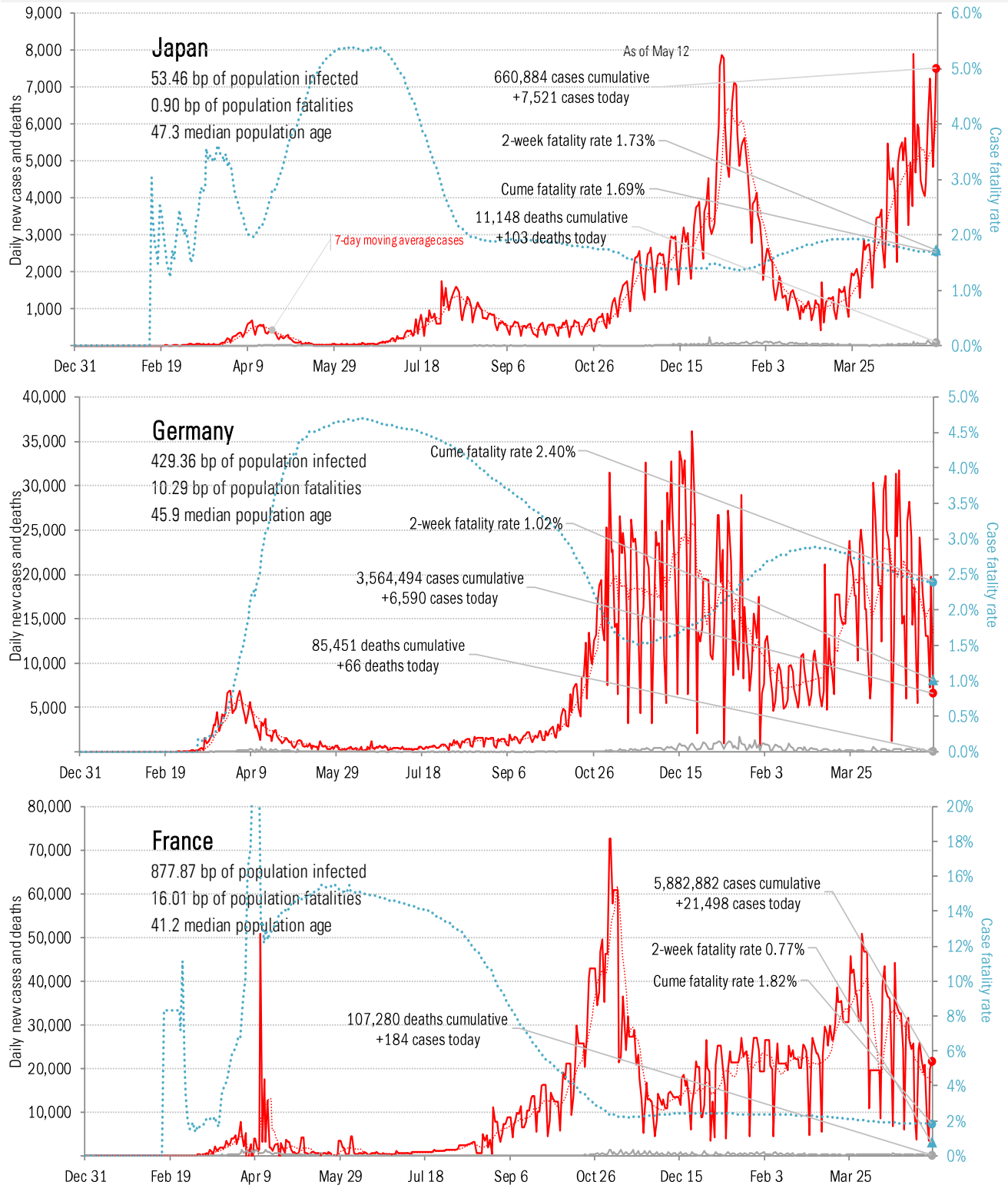
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



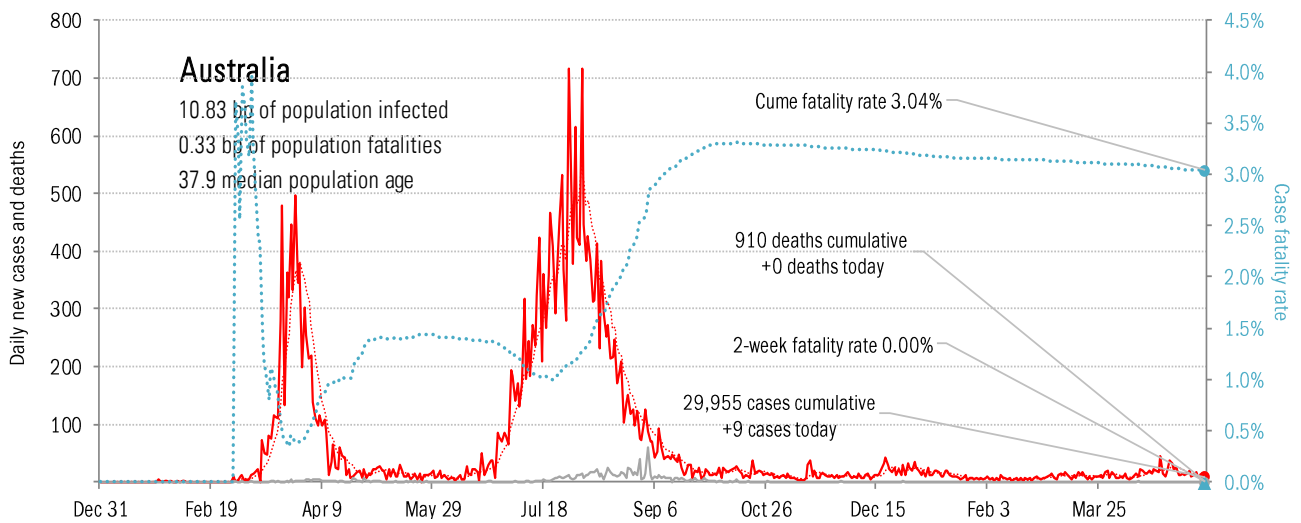
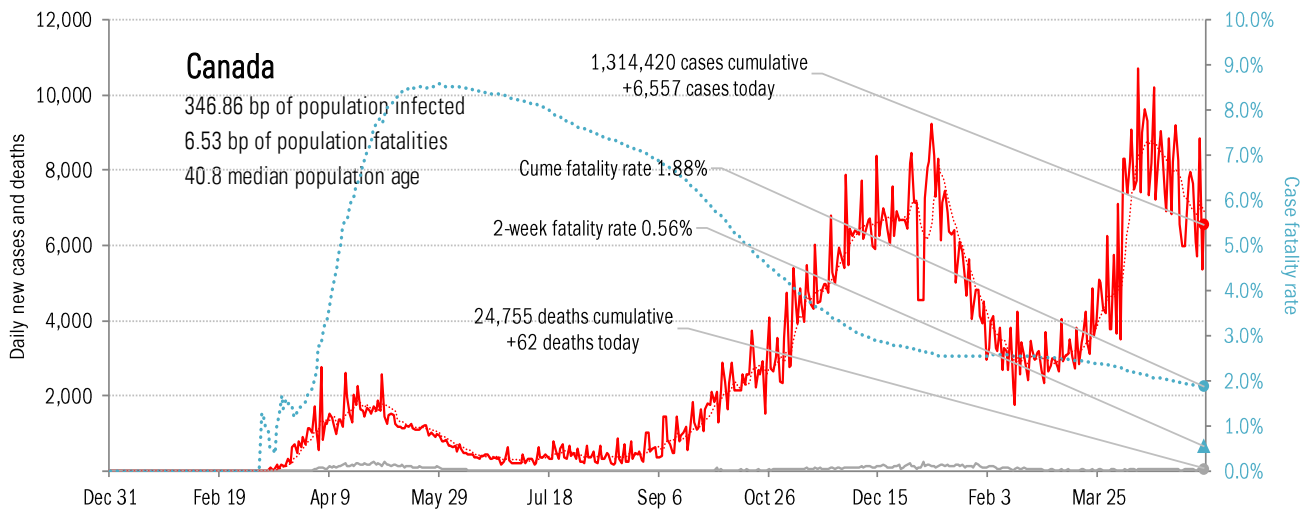
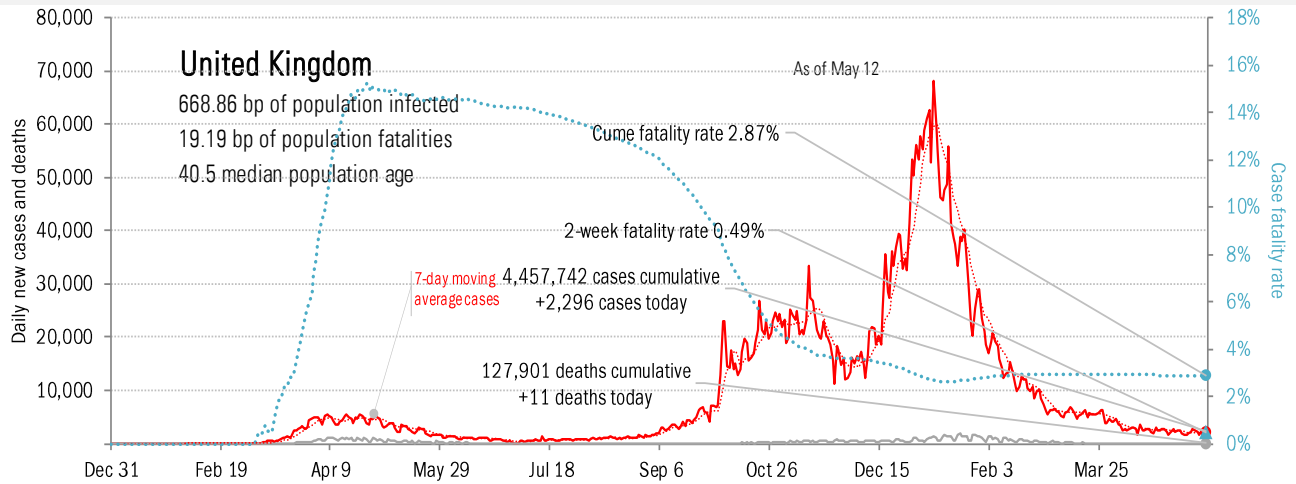
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



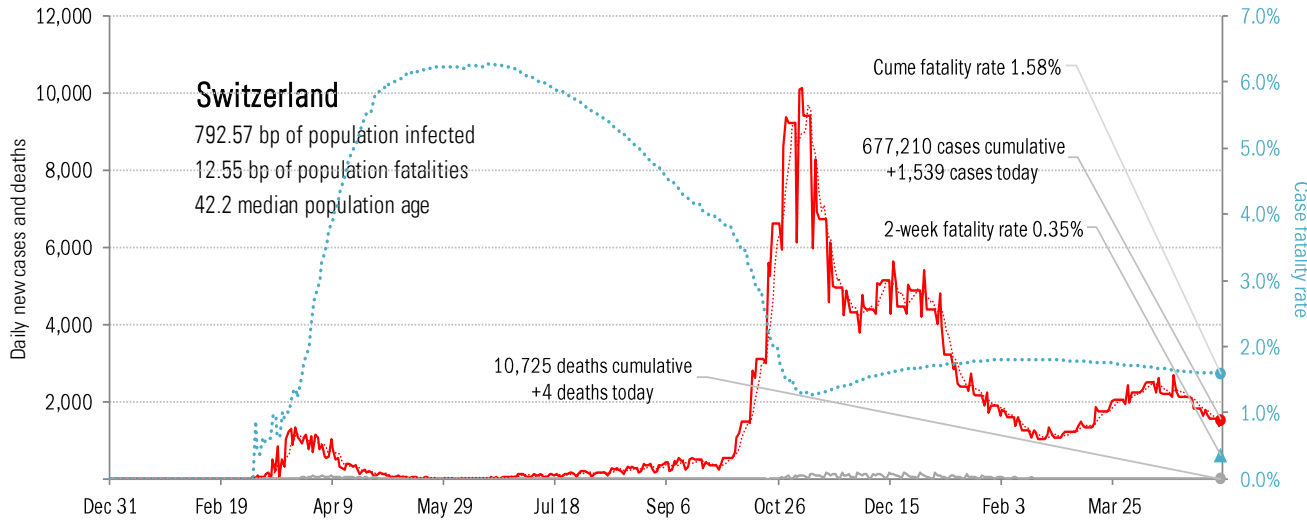
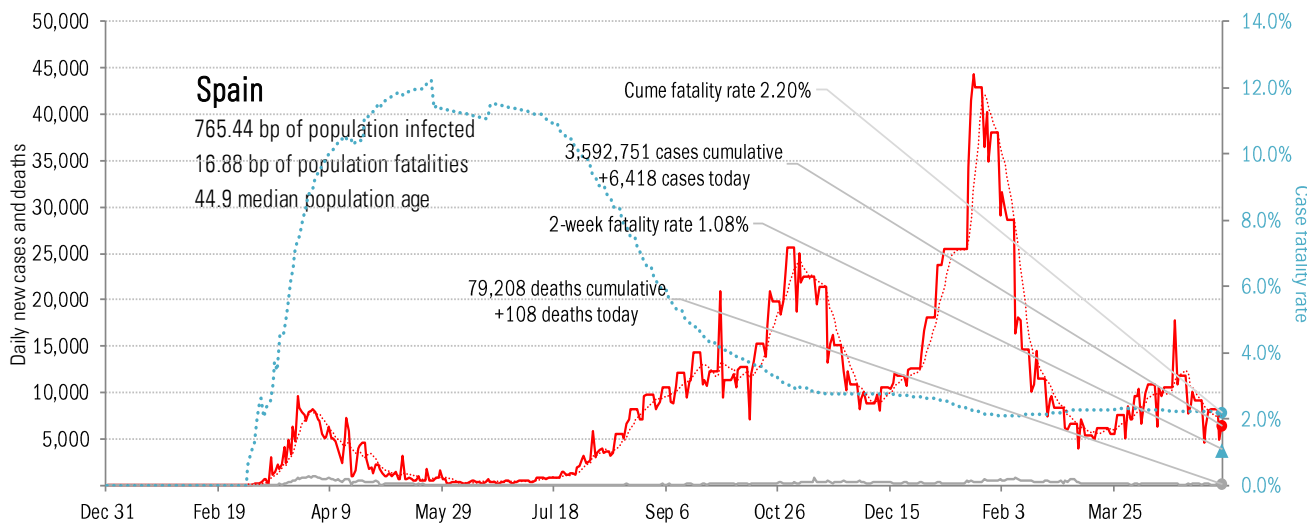
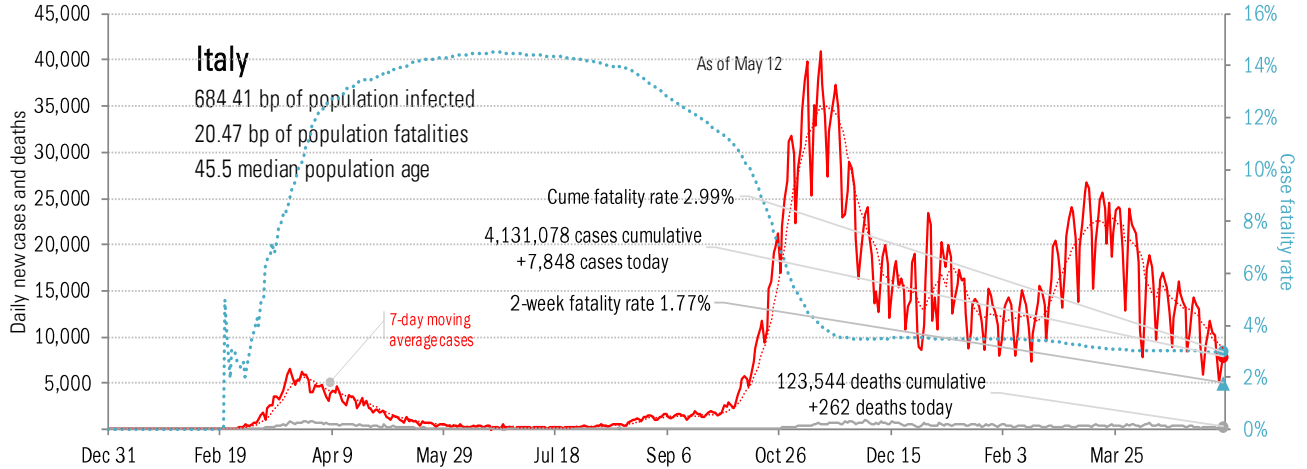
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



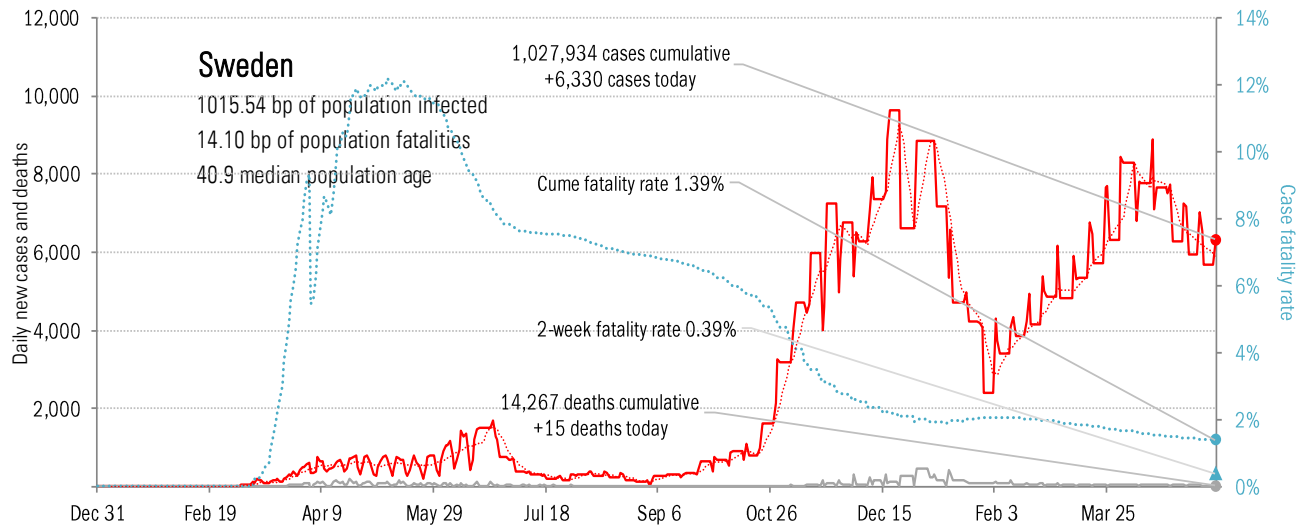
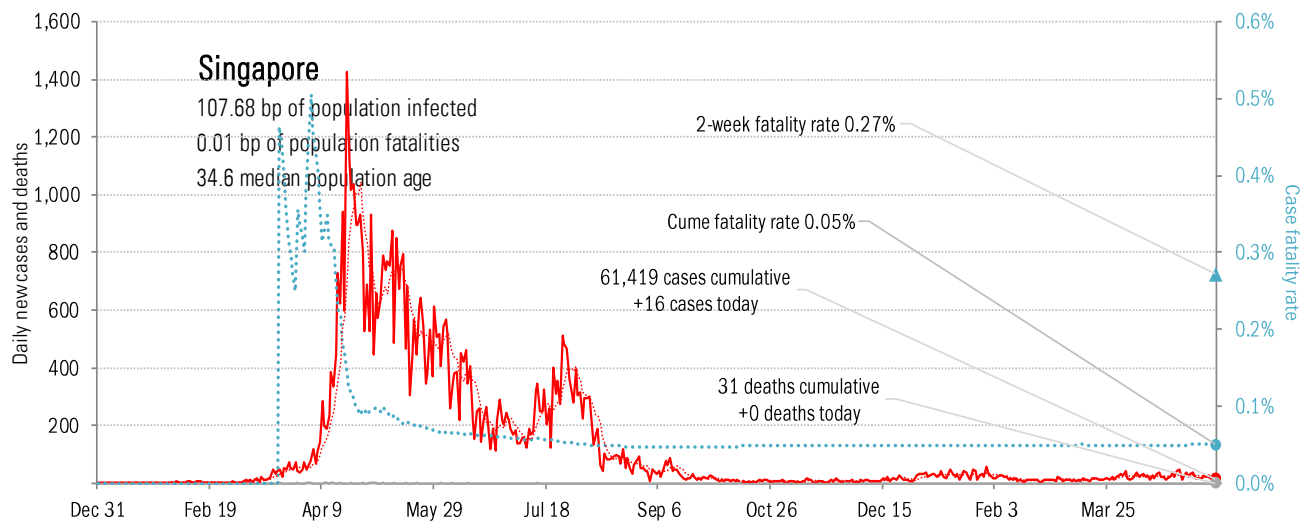
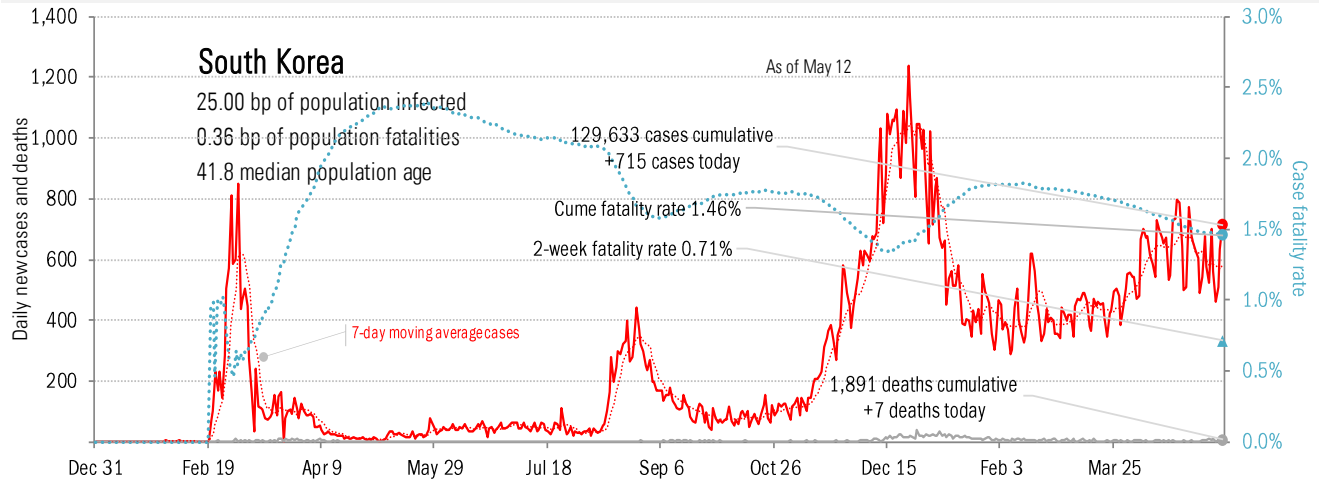
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



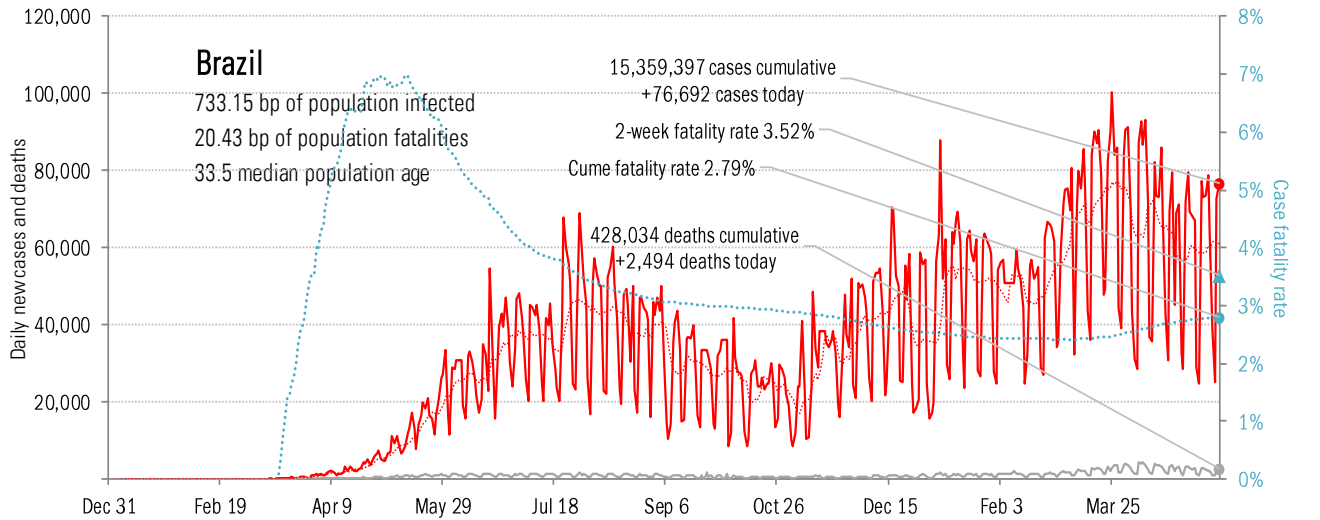
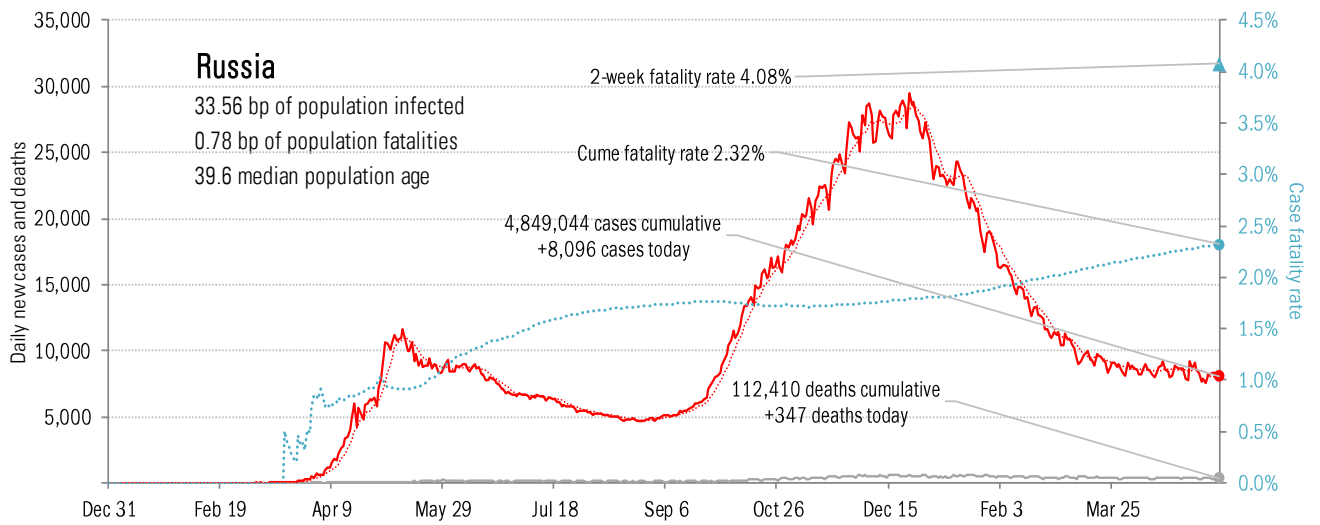
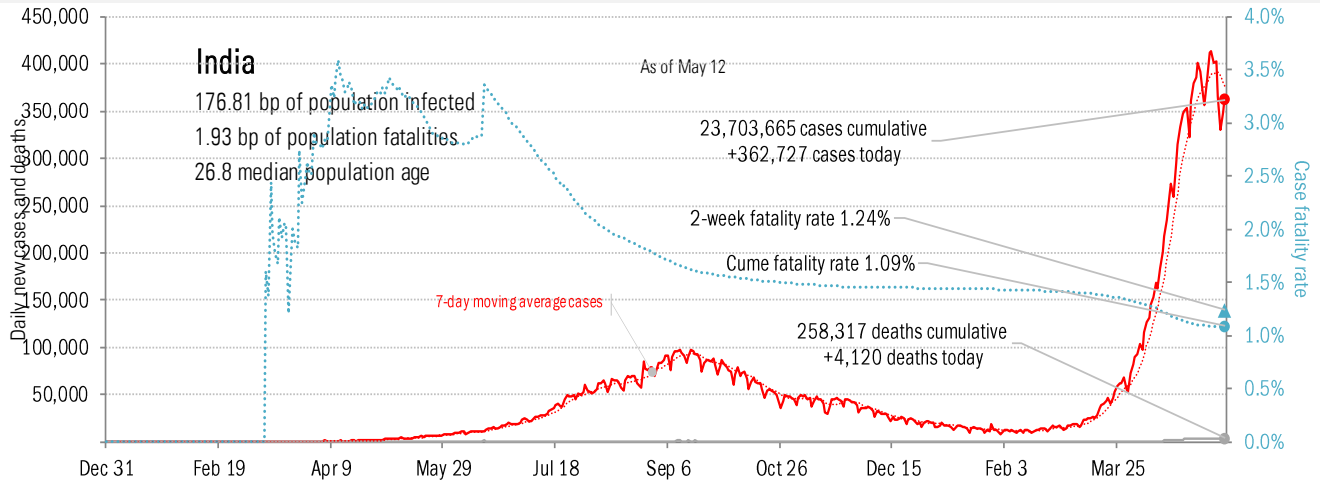
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



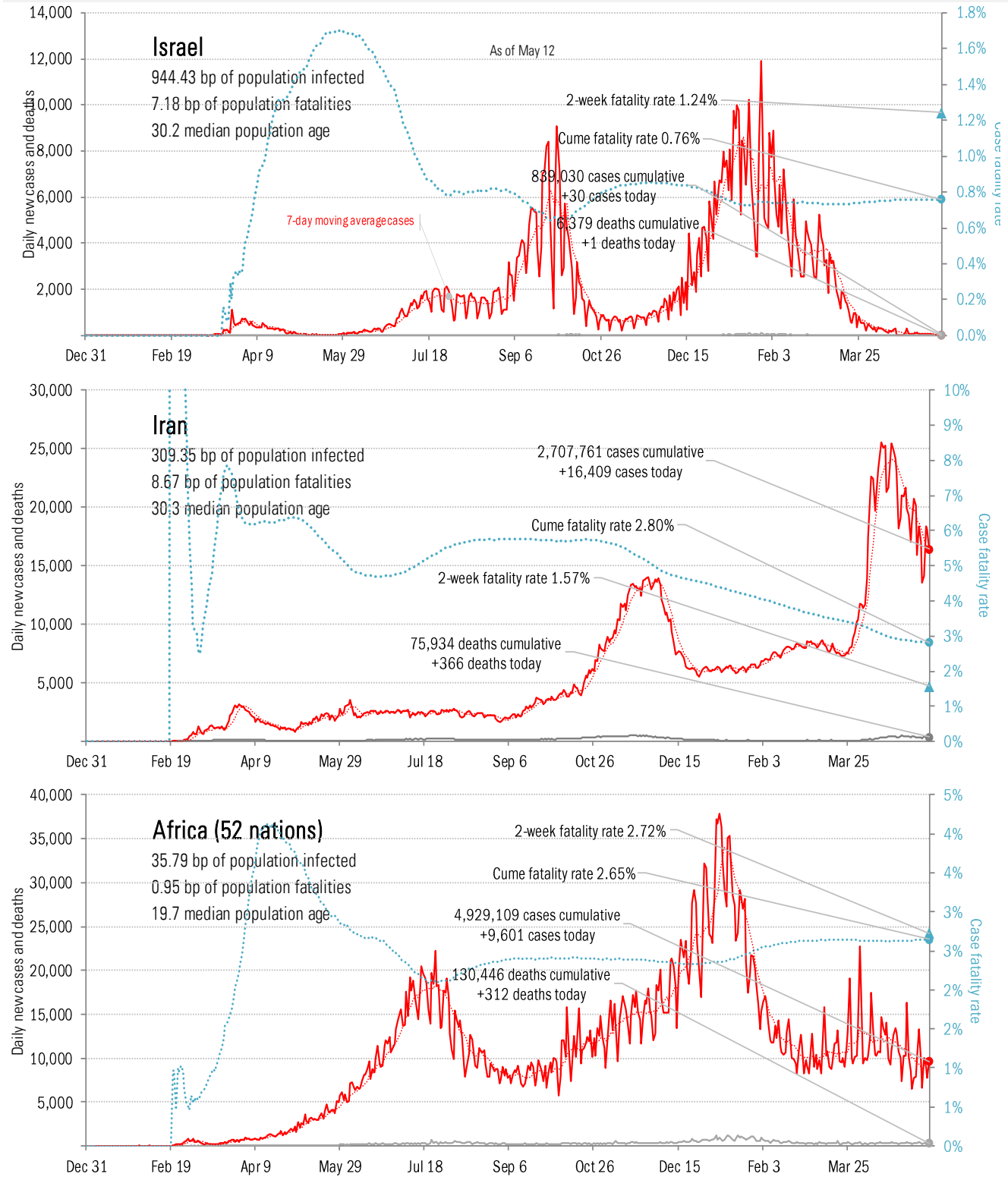
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



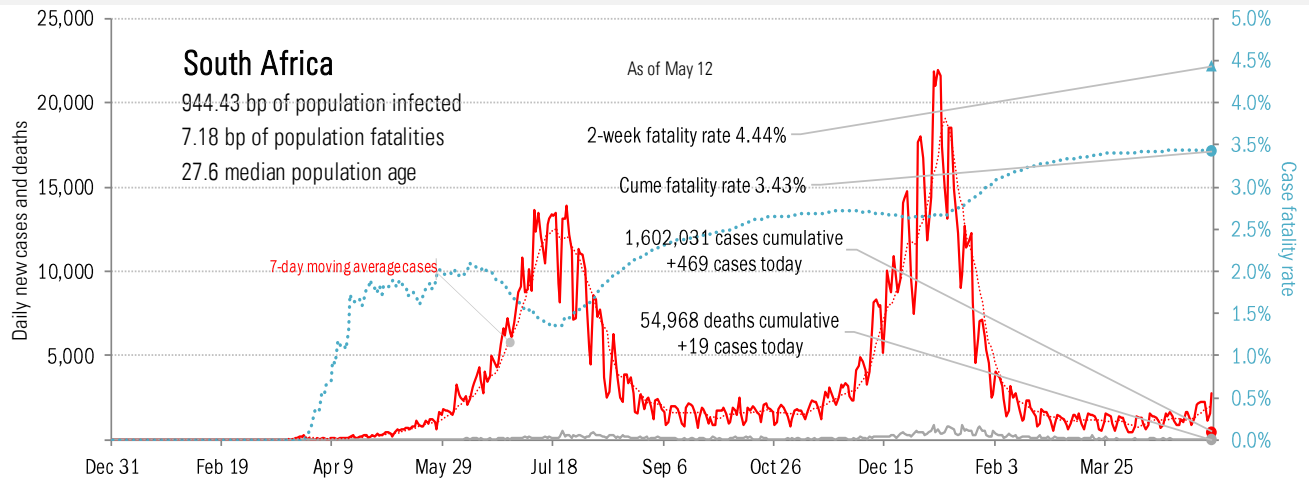
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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