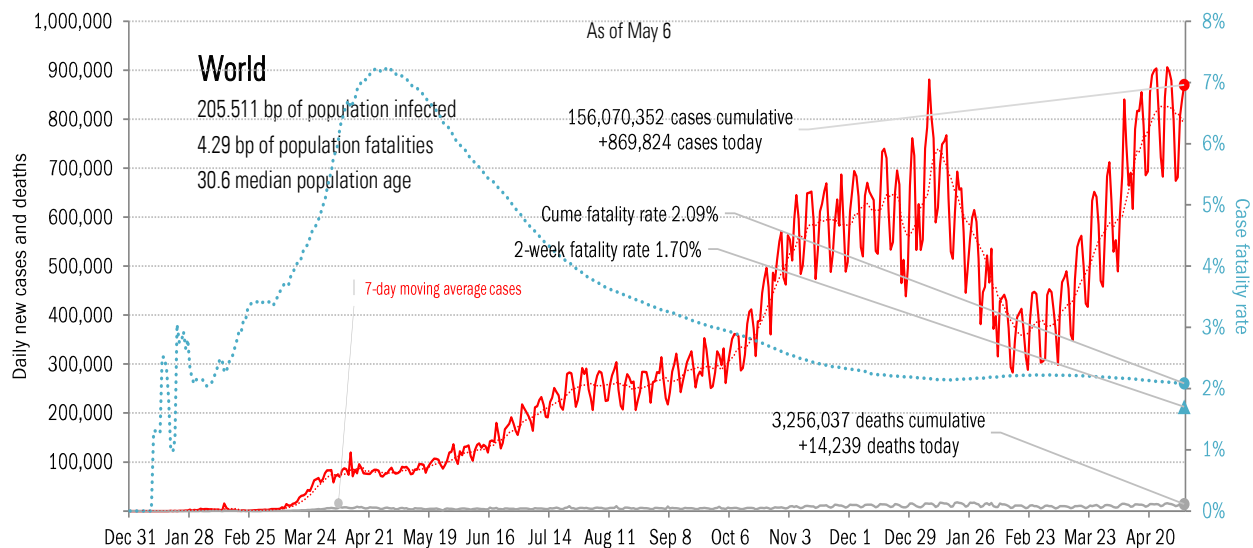
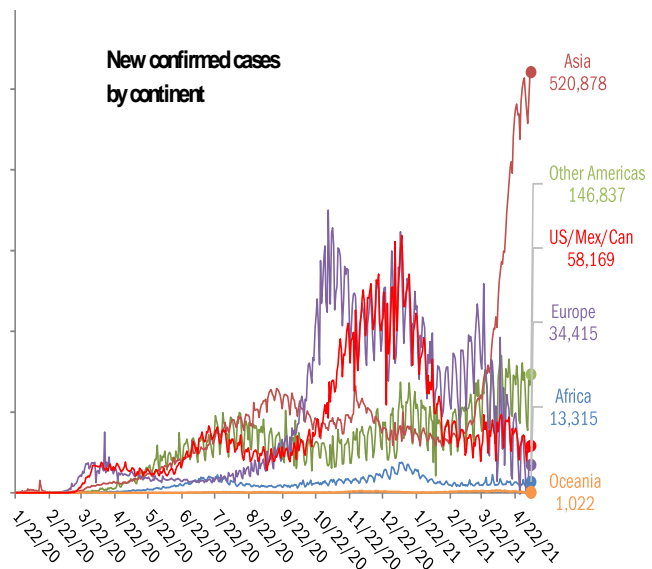


Data Insights: Covid-2019 Monitor

Friday, May 7, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+414,188	India	+3,915
Brazil	+73,380	Brazil	+2,550
United States	+47,366	United States	+789
Argentina	+24,086	Poland	+511
Turkey	+22,388	Colombia	+399
France	+21,742	Argentina	+398
Iran	+18,409	Ukraine	+381
Germany	+17,917	Russia	+344
Colombia	+16,490	Iran	+338
Italy	+11,798	Turkey	+304
+667,764		+9,929	
World	+869,824	World	+14,239
Top ten	77%	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

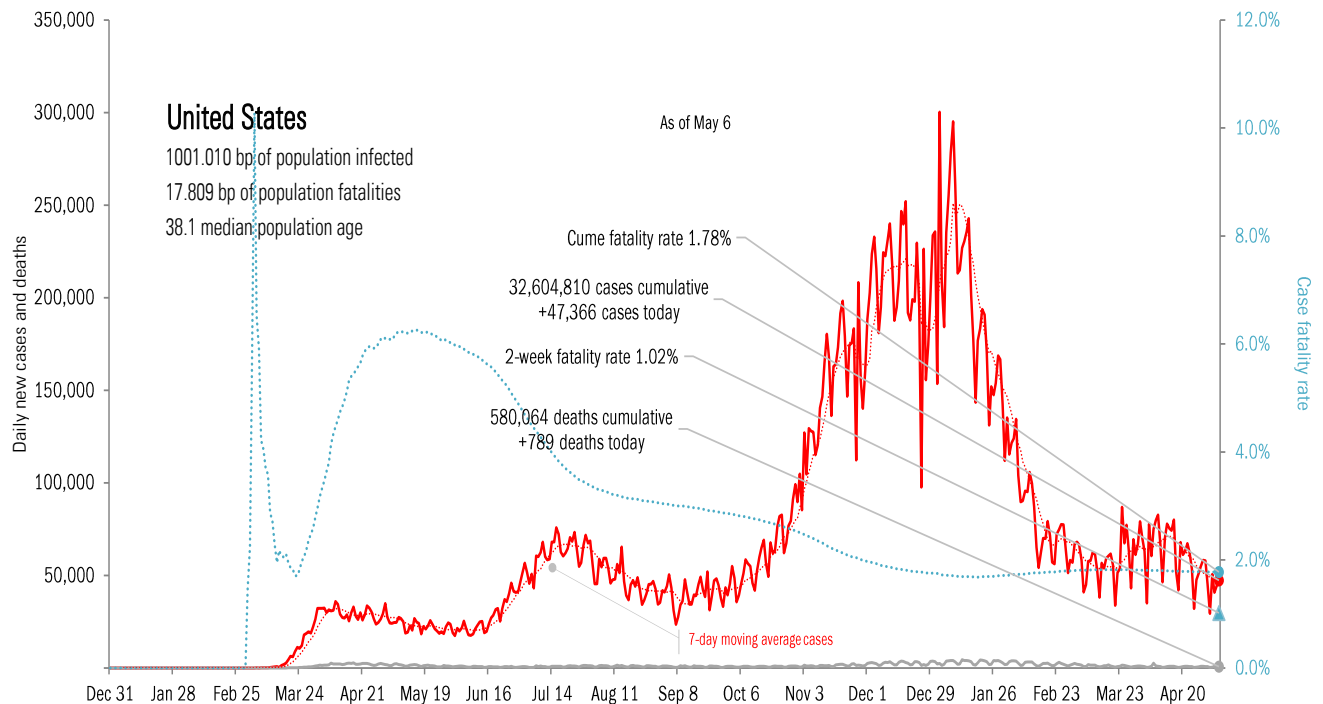
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
FL	+4,504		MI	+123		GA	+92		CA	3,753,173		CA	62,154		TX	238,313		R	91%	MI	32%
MI	+4,113		CA	+84		LA	+58		TX	2,909,076		NY	52,572		CA	230,813		MA	84%	MD	22%
PA	+3,273		FL	+71		NV	+33		FL	2,258,433		TX	50,527		FL	168,332		PA	82%	ME	19%
TX	+2,714		PA	+61		CA	+26		NY	2,064,530		FL	35,549		NY	128,946		CT	82%	RI	18%
NY	+2,643		TX	+56		IL	+25		IL	1,348,067		PA	26,410		GA	101,032		MO	82%	MN	18%
CA	+2,529		IL	+40		TN	+22		PA	1,168,100		NJ	25,740		PA	84,578		MD	82%	CO	17%
NC	+1,798		NY	+34		KY	+19		GA	1,107,068		IL	24,483		CH	81,827		MI	81%	PA	16%
IL	+1,773		NJ	+33		WV	+18		CH	1,080,121		GA	20,294		IL	76,129		GA	80%	ID	15%
MN	+1,651		SC	+22		AR	+17		NJ	1,005,938		CH	19,344		KY	72,134		MN	79%	WA	14%
CO	+1,563		GA	+21		CH	+12		NC	978,566		MI	19,223		MI	65,918		FL	78%	WV	14%
+26,561			+545			+322			17,673,072			336,296			1,248,022						
All states	+47,366			+789			+7		All states	32,604,810			580,064			2,222,932		All states	70%		67%
Top ten	56%			69%			4600%		Top ten	54%			58%			56%		Median	72%		10%

Some states not reporting

Five most improved US states

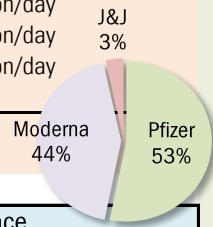
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NJ	-1,115	CK	-44	CR	-44	LA	+109 bp
IL	-646	NY	-21	IN	-27	MA	+79 bp
KS	-491	NJ	-16	WA	-25	CT	+74 bp
WA	-184	KS	-14	NM	-21	CO	+74 bp
AZ	-141	GA	-11	FL	-19	NY	+69 bp



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
336.67 million doses distributed	+3.17 million/day	US	32.6%	44.7%
260.40 million doses administered	+2.45 million/day	UK	24.0%	51.5%
153.69 million persons partially immunized	+0.91 million/day	France	10.6%	24.6%
112.48 million persons fully immunized	+1.62 million/day	Spain	12.2%	27.7%
		Germany	8.8%	31.3%
		Italy	11.4%	26.3%
		Australia	1.6%	0.6%
		Israel	58.6%	62.6%
		Canada	3.2%	36.4%
		Japan	0.9%	2.4%
		Africa	0.4%	1.0%
		India	2.3%	9.5%
		Brazil	7.1%	14.8%



77.3% of distributed doses administered
 46.0% of US pop partial 33.7% full immunity

At today's dosing pace,
 every American >18 immune in
90 days
 by Aug 3, 2021
 53.4% of population >18 immunized
 13.7% previously tested positive
 67.1% vs 60% adult herd immunity

Global data differs from sources, timing

AK
56.8%
42.4%
36.3%

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



ME
58.5%
56.5%
42.7%

WA	ID	MT	ND	MN	IL	MI	NY	MA	VT	NH
53.3%	43.7%	50.4%	45.1%	49.3%	52.9%	52.7%	53.9%	60.1%	62.5%	54.9%
48.4%	34.7%	41.5%	39.7%	48.5%	47.9%	43.7%	49.3%	58.6%	59.0%	61.2%
34.6%	28.5%	33.6%	33.5%	36.6%	32.3%	34.2%	37.7%	39.8%	40.7%	30.3%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
52.2%	44.8%	44.8%	54.3%	49.2%	44.9%	49.2%	55.7%	55.5%	59.7%	61.9%
46.5%	40.6%	34.4%	45.3%	45.1%	37.2%	41.2%	51.6%	53.2%	56.5%	54.0%
33.0%	30.0%	28.6%	38.7%	36.5%	28.8%	34.1%	34.6%	39.0%	41.9%	39.2%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
55.0%	44.6%	52.8%	49.8%	46.4%	48.0%	49.5%	52.8%	56.6%	56.4%	
50.4%	40.7%	47.9%	44.0%	38.5%	41.9%	36.2%	48.8%	49.9%	48.0%	
32.9%	25.8%	35.5%	35.2%	29.3%	33.3%	31.4%	35.7%	36.2%	34.8%	
AZ	NM	KS	AR	TN	NC	SC	DC			
50.6%	53.1%	50.4%	46.8%	43.5%	51.5%	48.3%	67.6%			
41.7%	52.2%	43.3%	36.3%	35.1%	40.0%	37.3%	49.7%			
30.5%	39.8%	33.3%	26.9%	26.4%	31.3%	28.9%	32.2%			
OK	LA	MS	AL	GA						
50.5%	42.4%	44.2%	45.7%	49.1%						
39.1%	33.0%	31.6%	33.0%	35.7%						
30.8%	28.0%	24.5%	24.5%	26.0%						
HI	TX						FL			PR
57.6%	49.7%						54.0%			55.5%
54.1%	39.2%						43.1%			40.1%
37.0%	28.9%						31.0%			26.7%

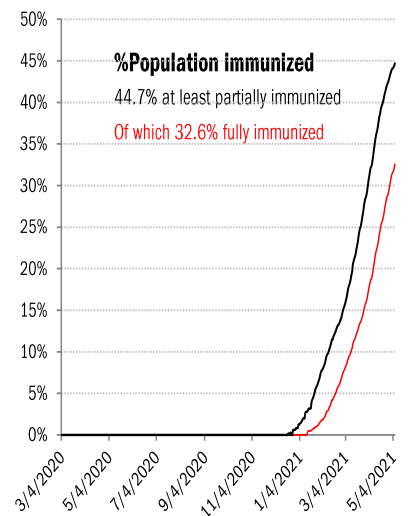
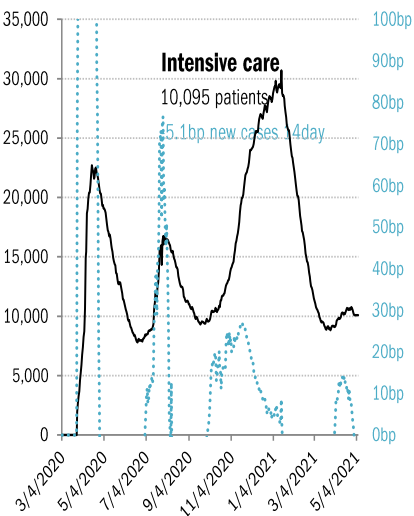
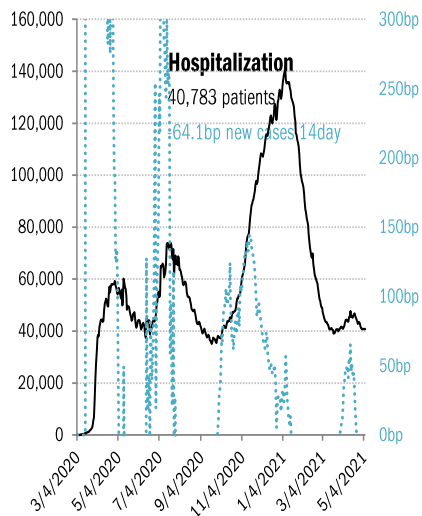
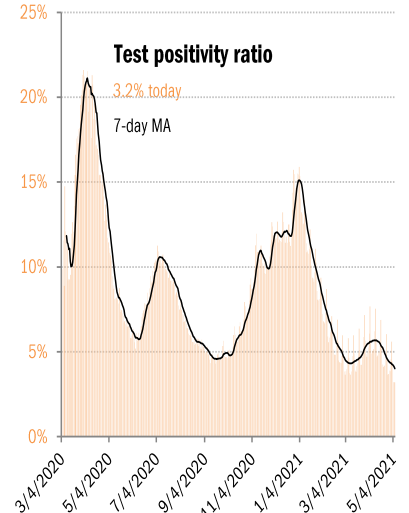
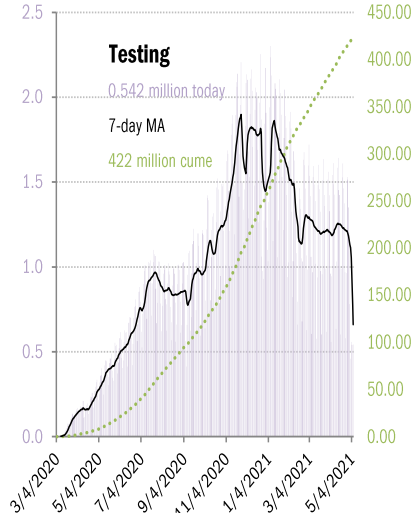
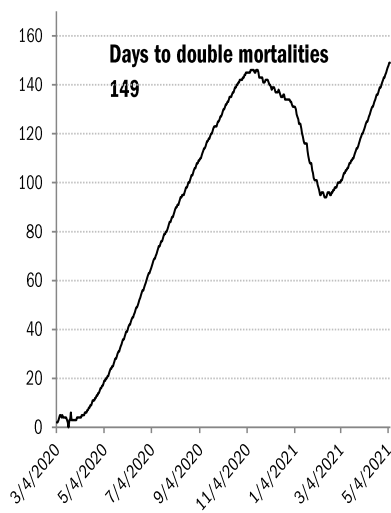
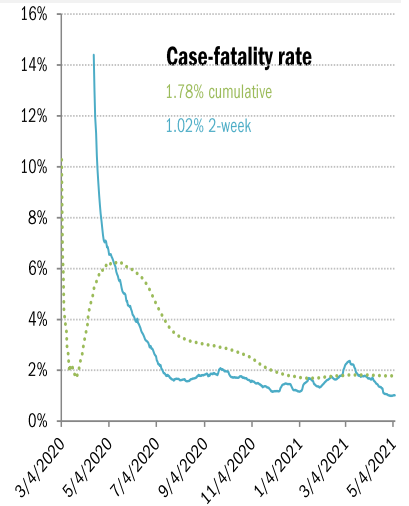
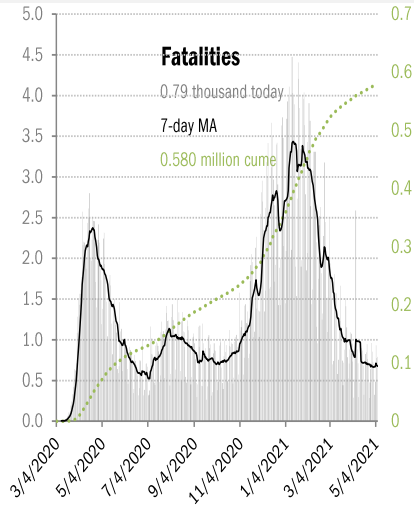
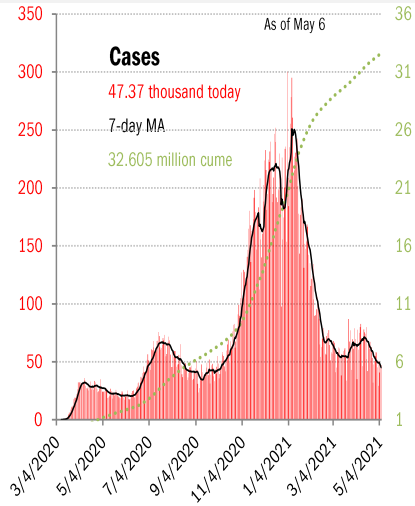
As of May 6

** 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

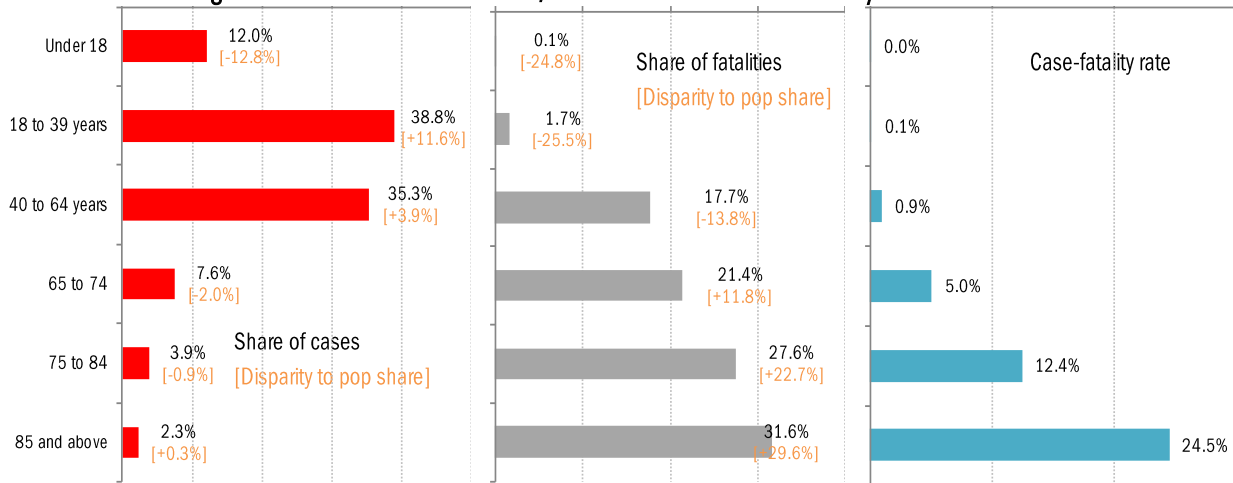
National and state-by-state data do not line up because of different sources



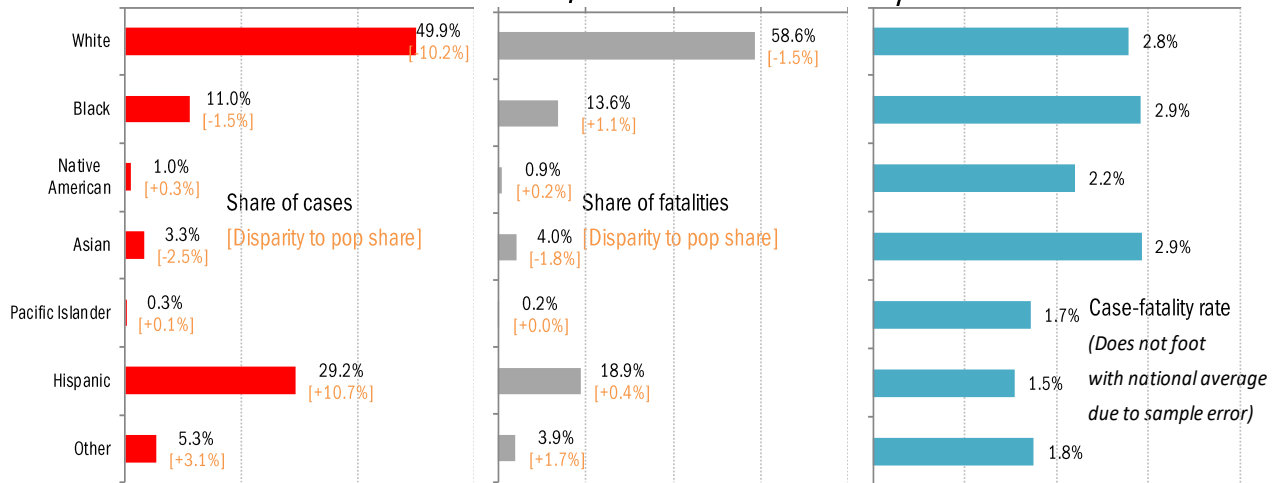
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

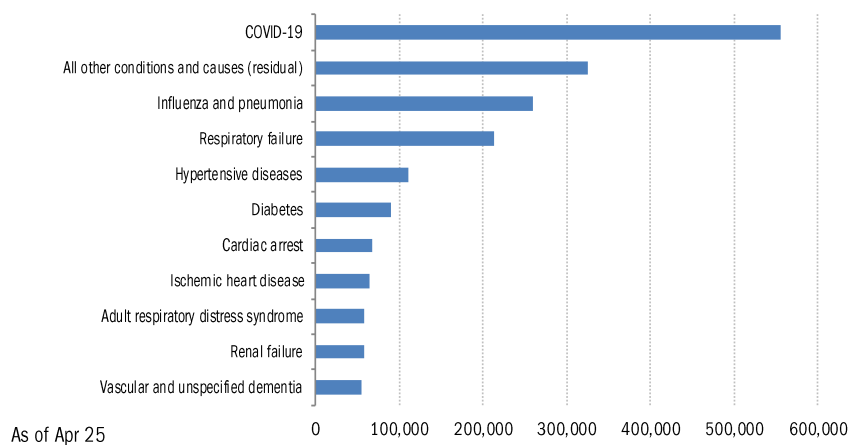


Racial distribution of US cases, fatalities and case-fatality rates



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

[This New Covid Vaccine Could Bring Hope to the Unvaccinated World](#)

Carl Zimmer
New York Times
May 5, 2021

[‘Stakeholder Capitalism’ Caused the Oxford Vaccine Debacle](#)

Matthew Lesh
Wall Street Journal
May 5, 2021

[Madrid Votes for Freedom](#)

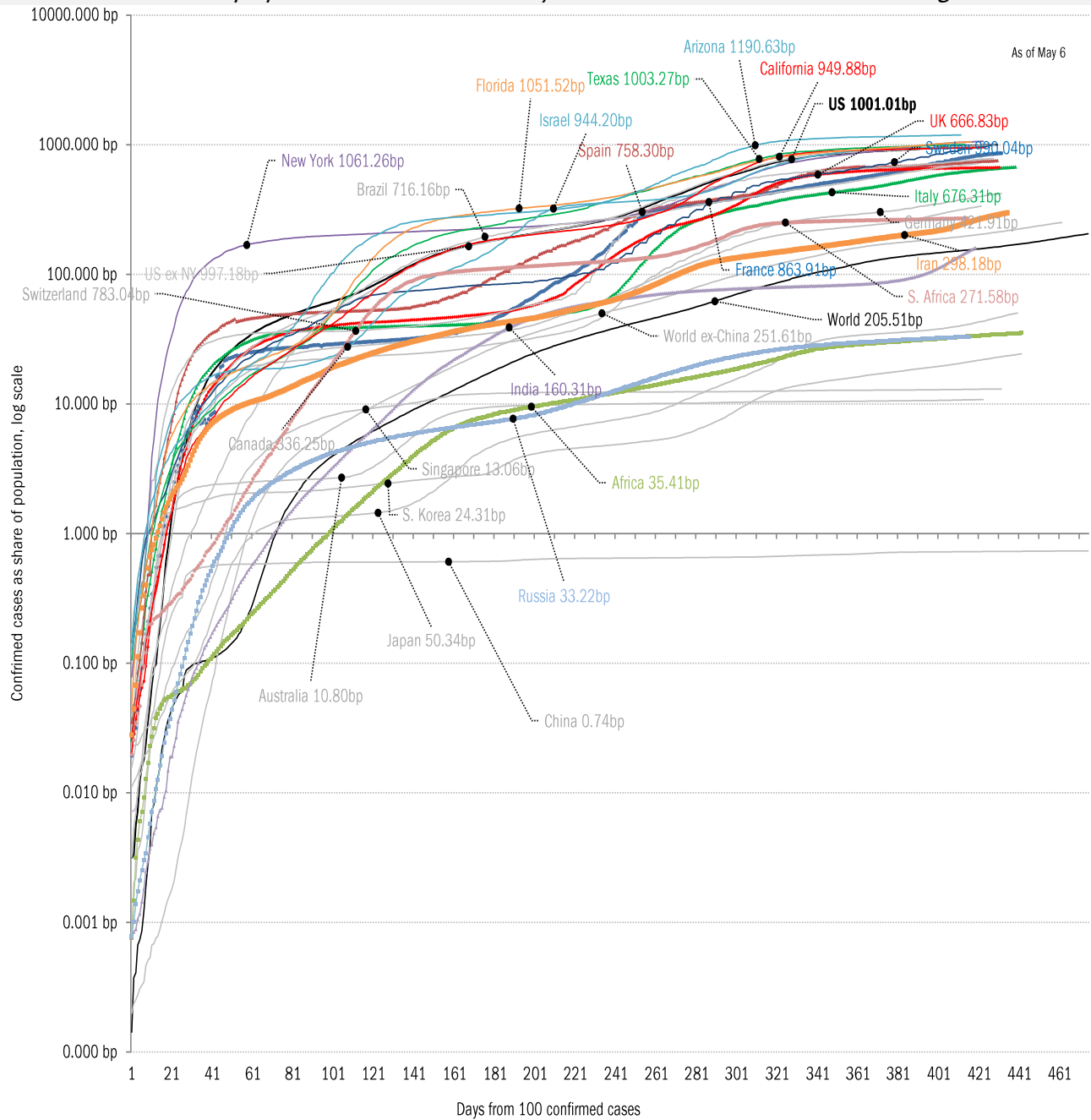
Wall Street Journal
May 5, 2021

Meme of the day



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

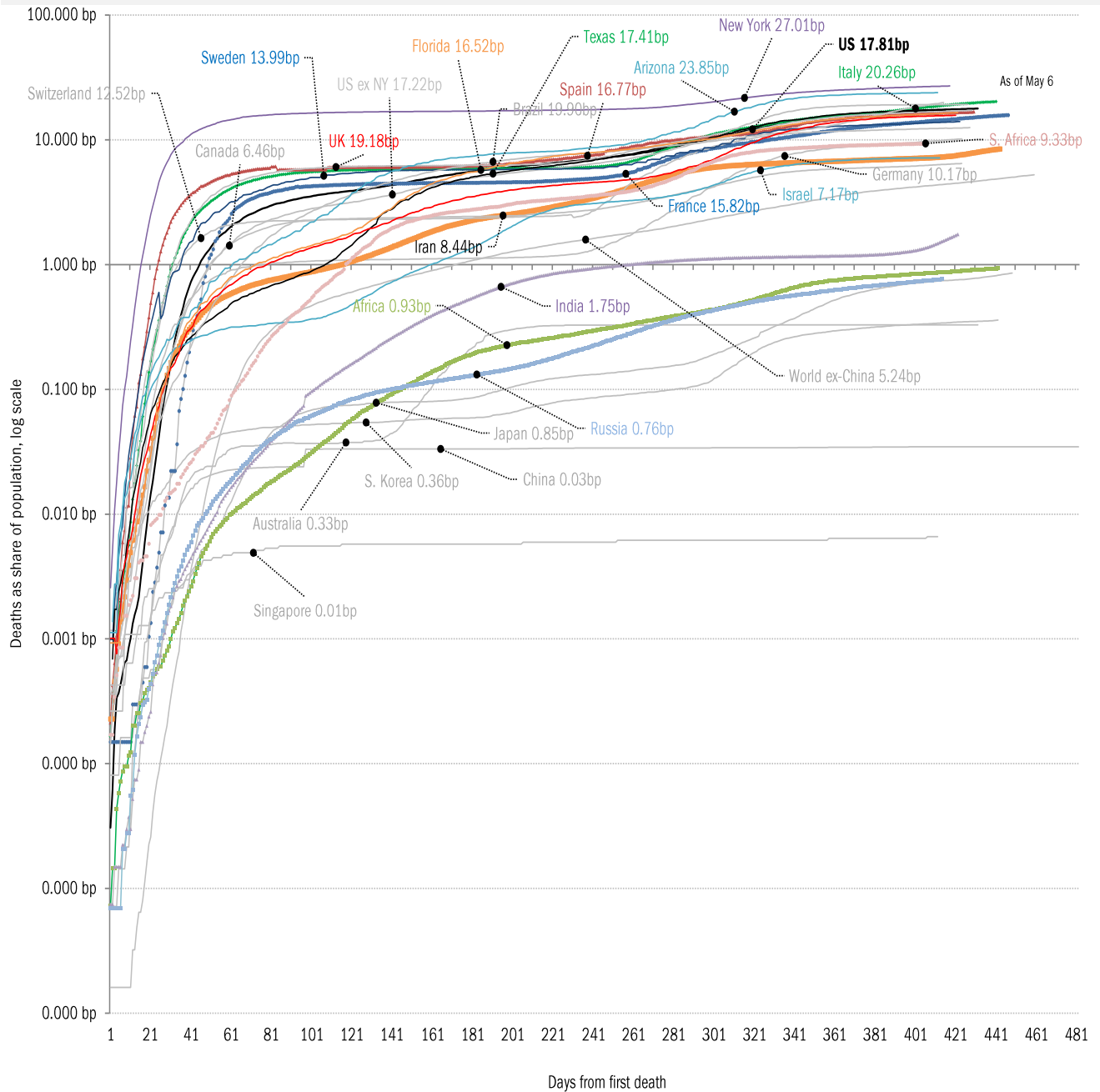
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

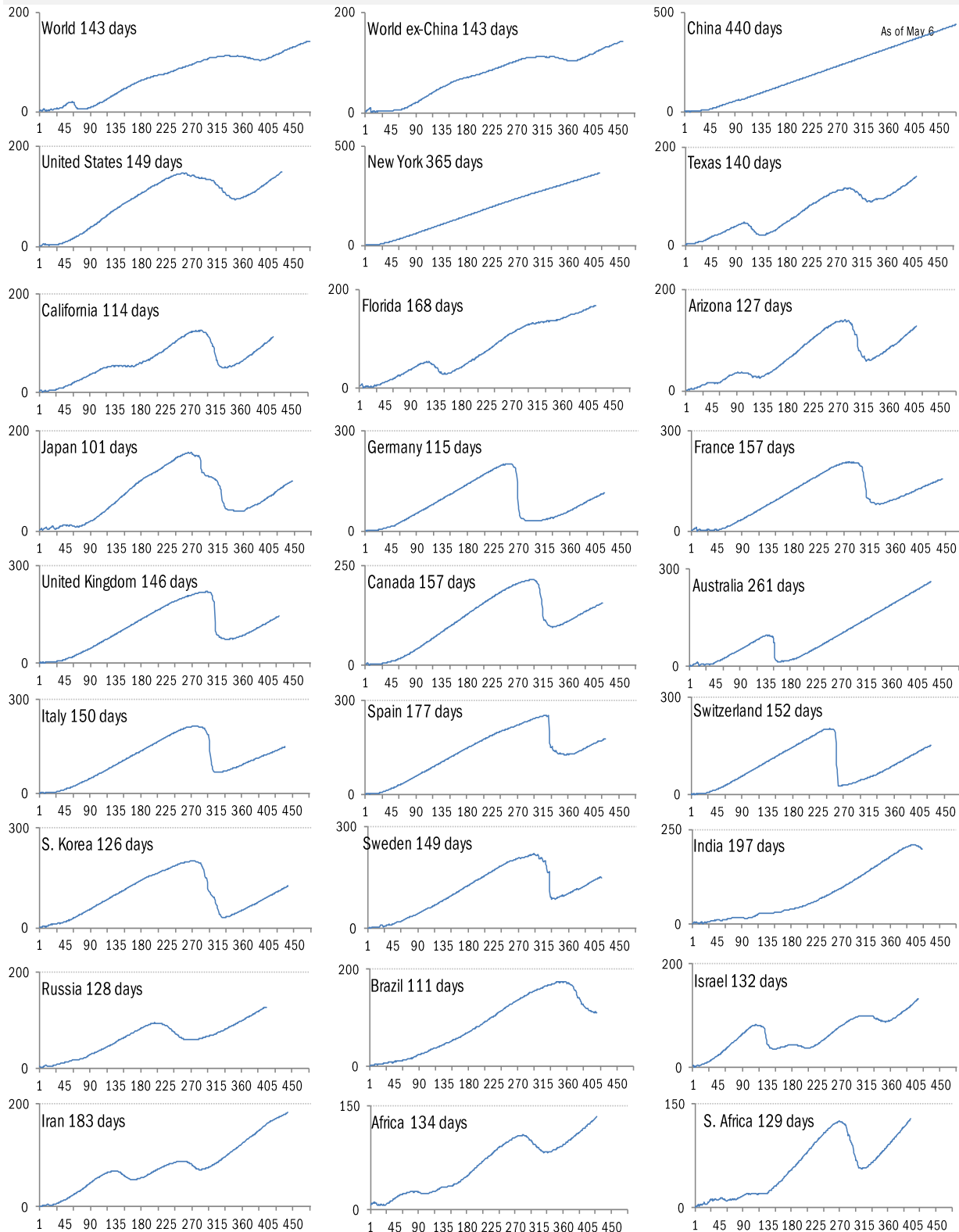


Source: [Johns Hopkins](#), TrendMacro calculations

"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

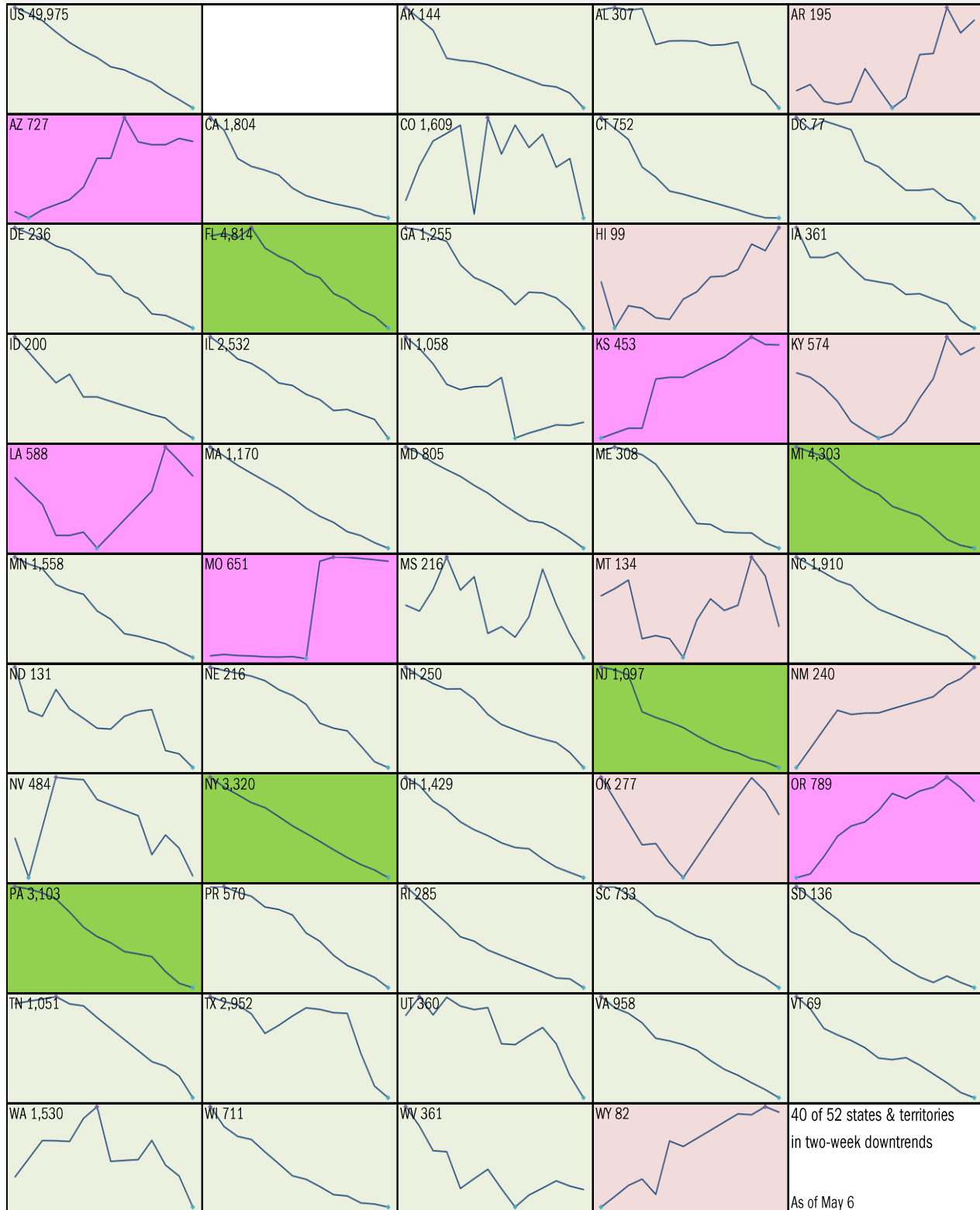


Source: [Johns Hopkins](#), TrendMacro calculations

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

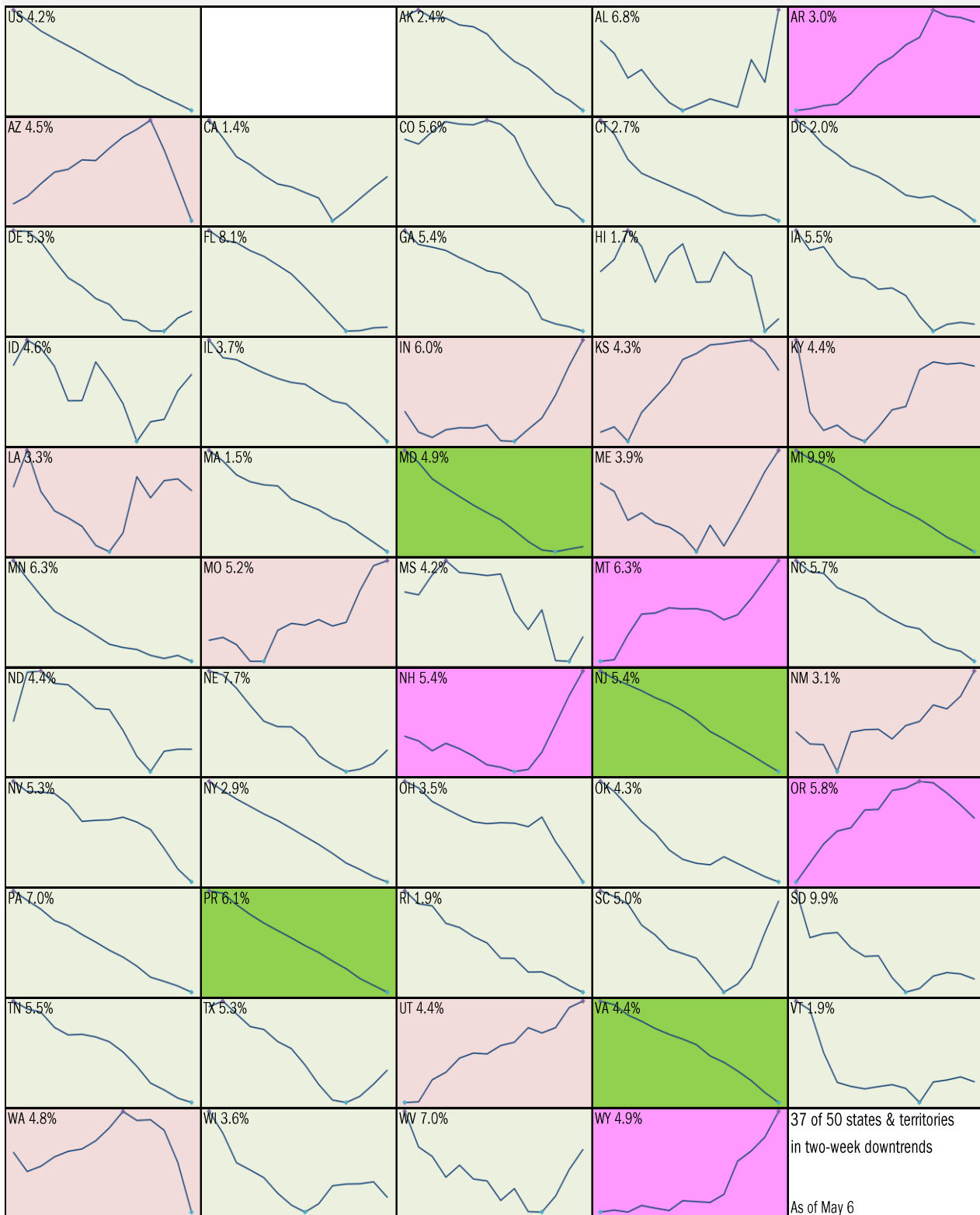


Source: [Johns Hopkins](#), TrendMacro calculations

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

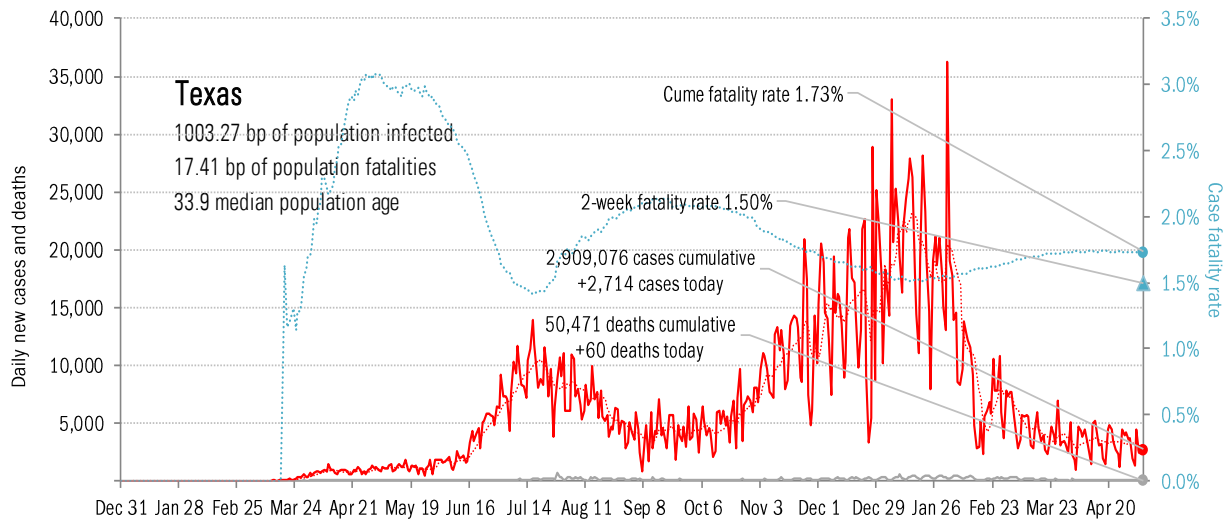
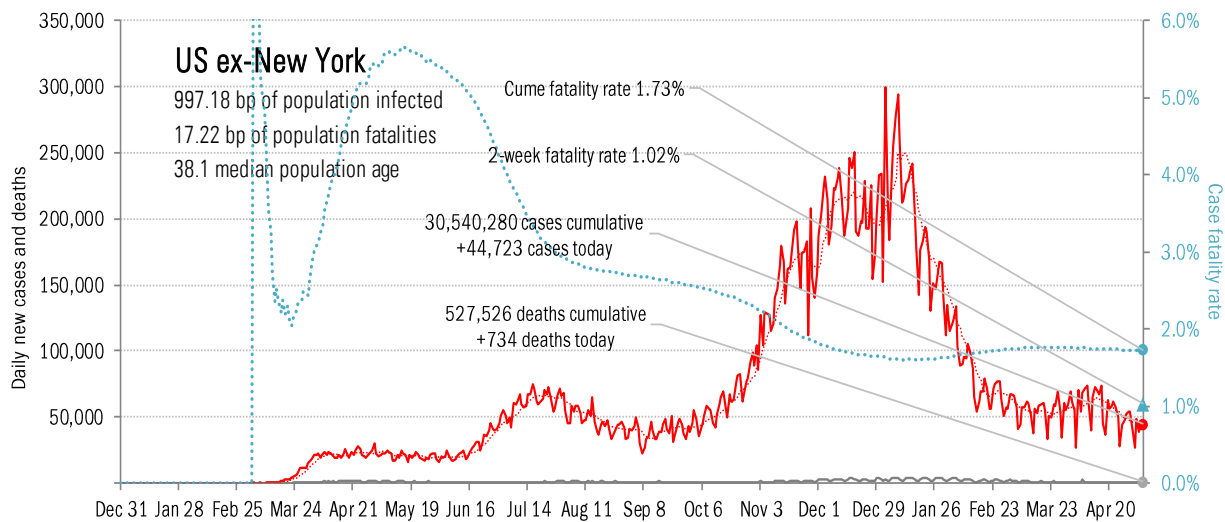
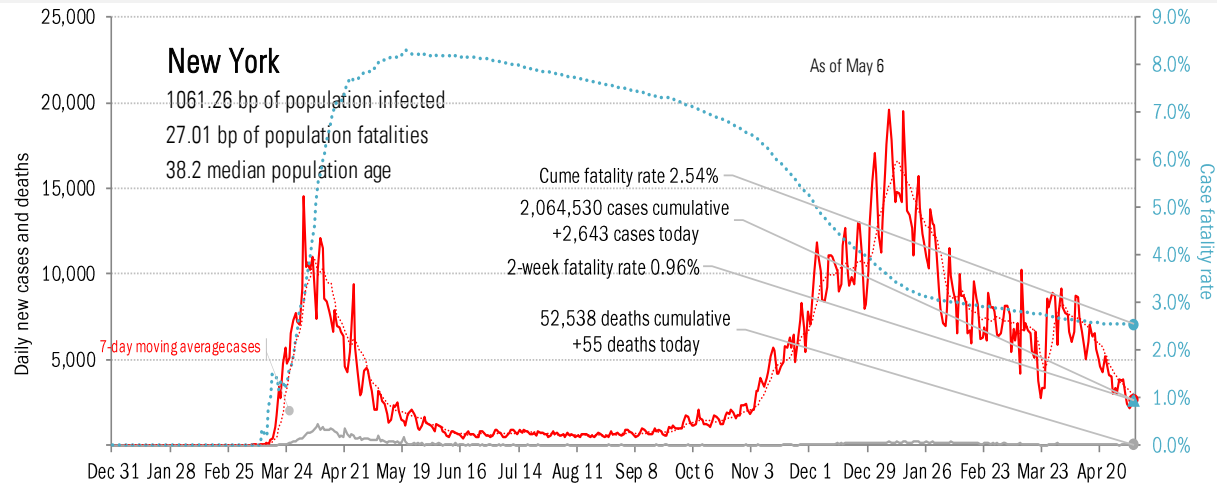
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



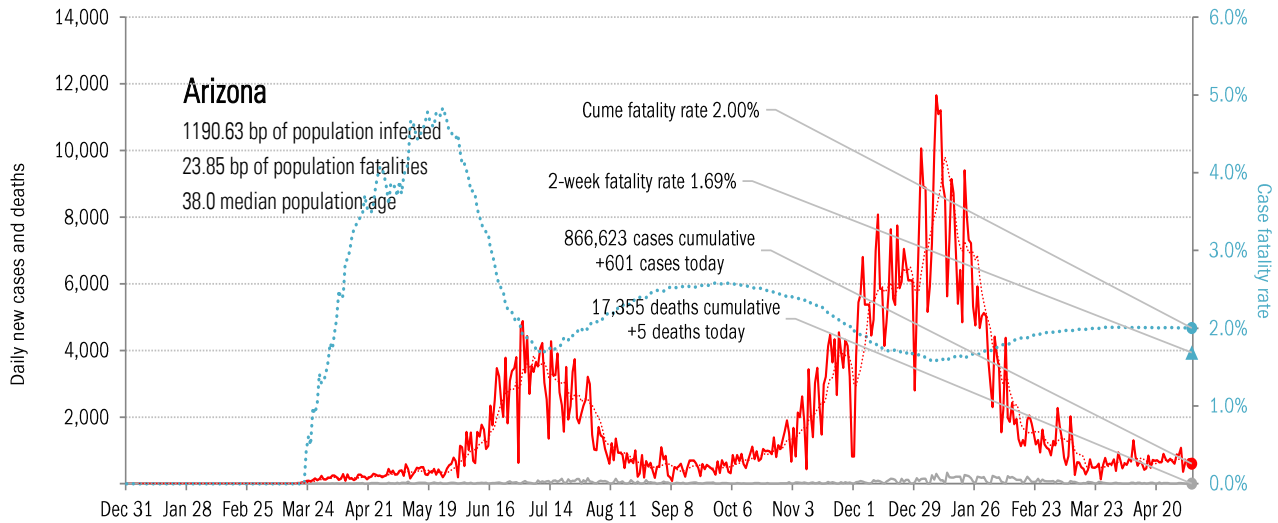
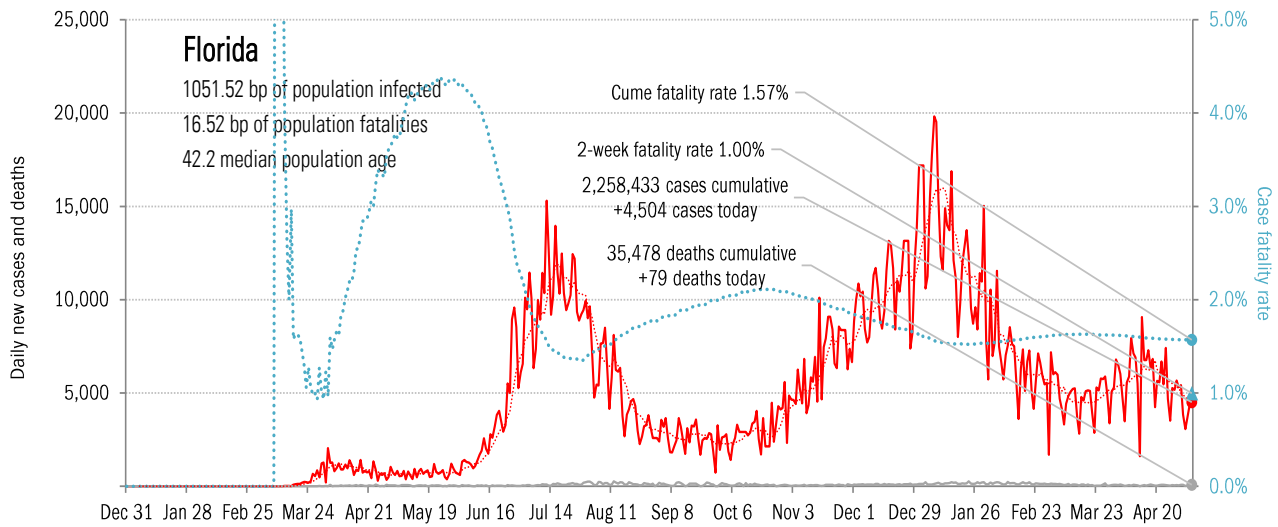
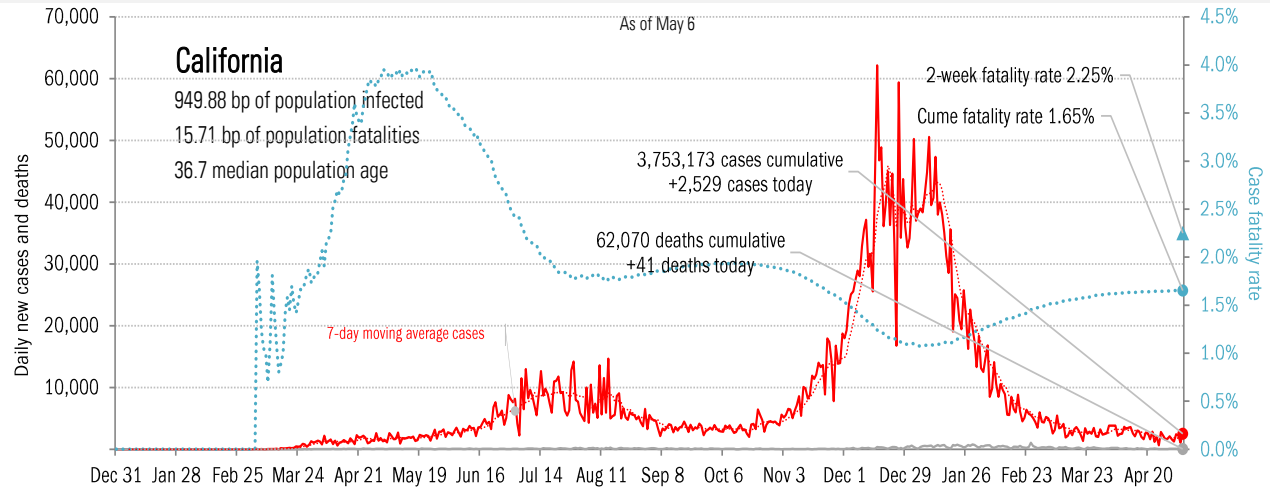
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



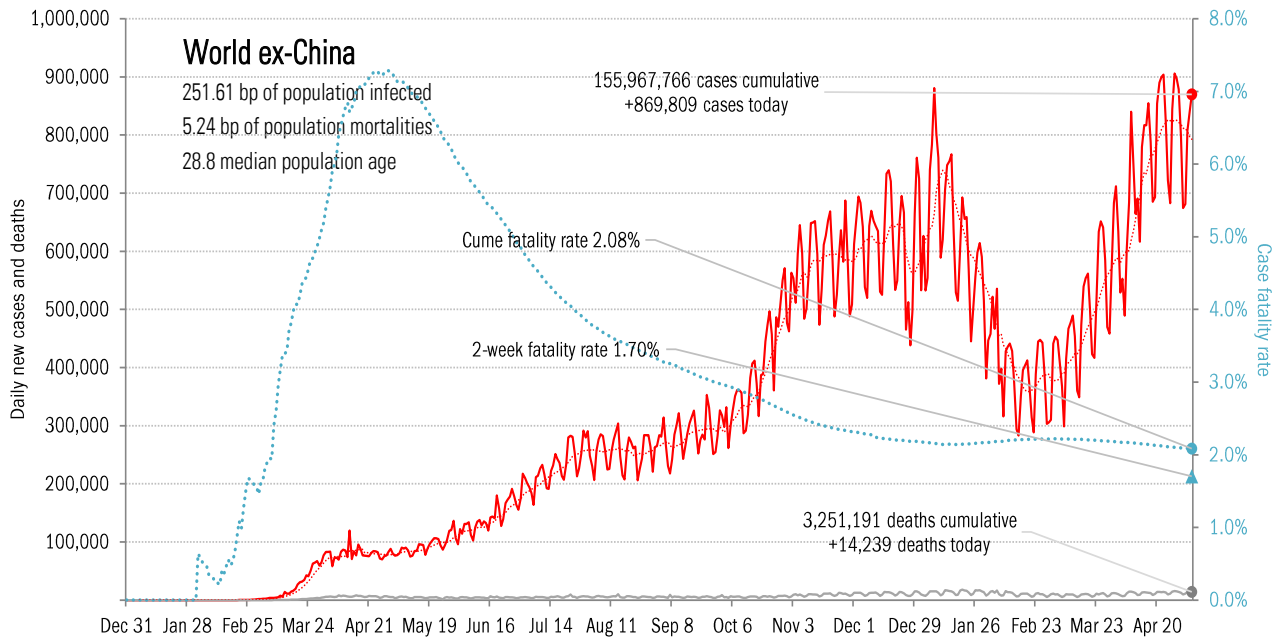
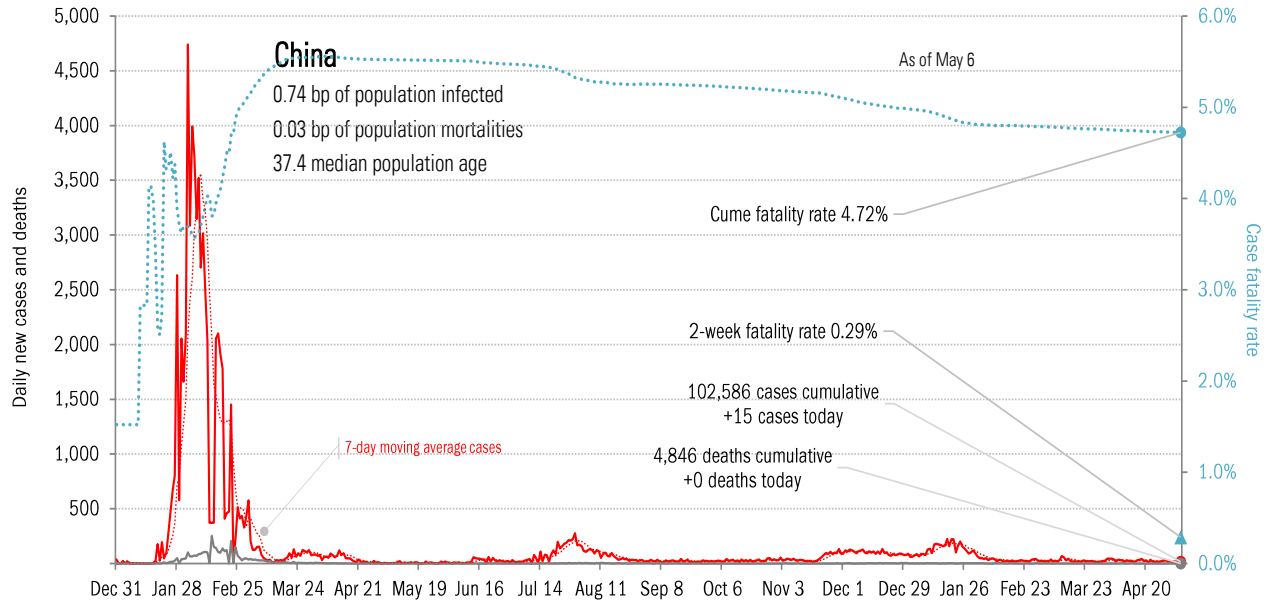
Source: [Johns Hopkins](#), TrendMacro calculations

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



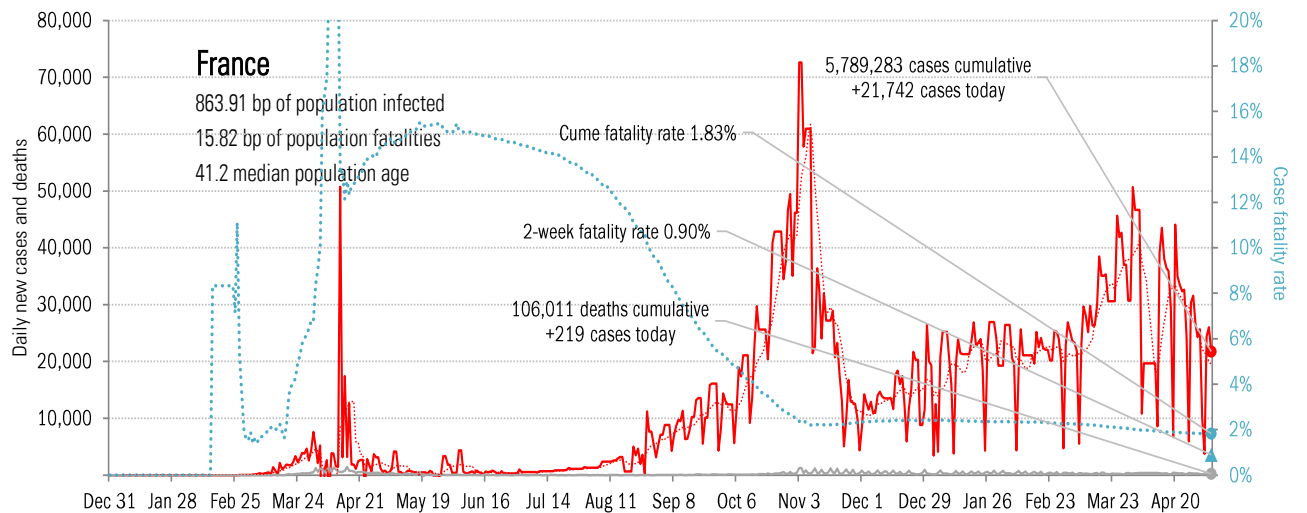
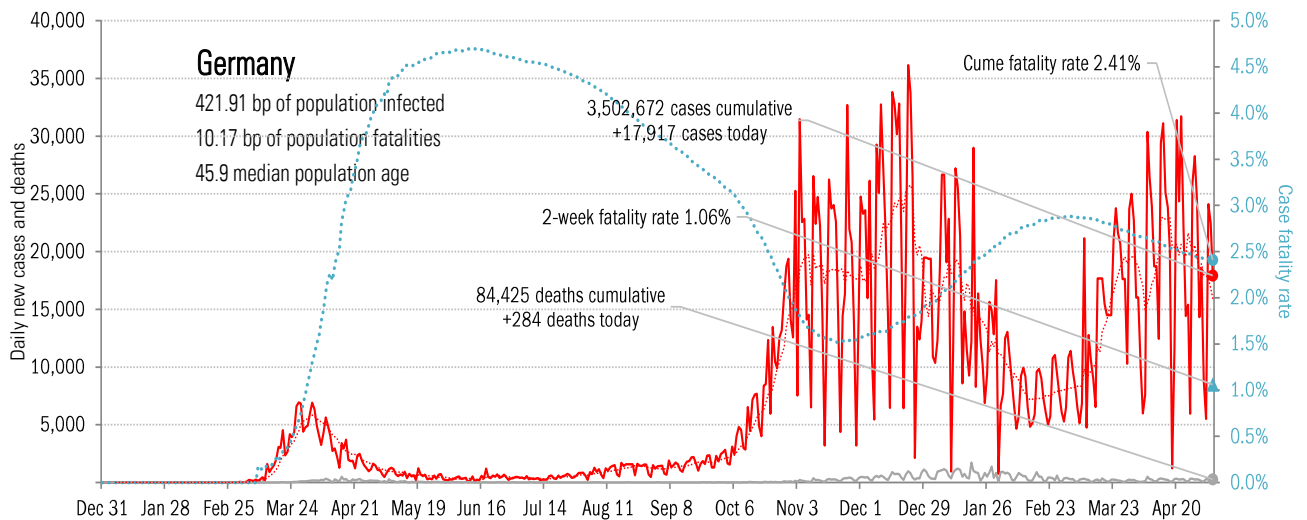
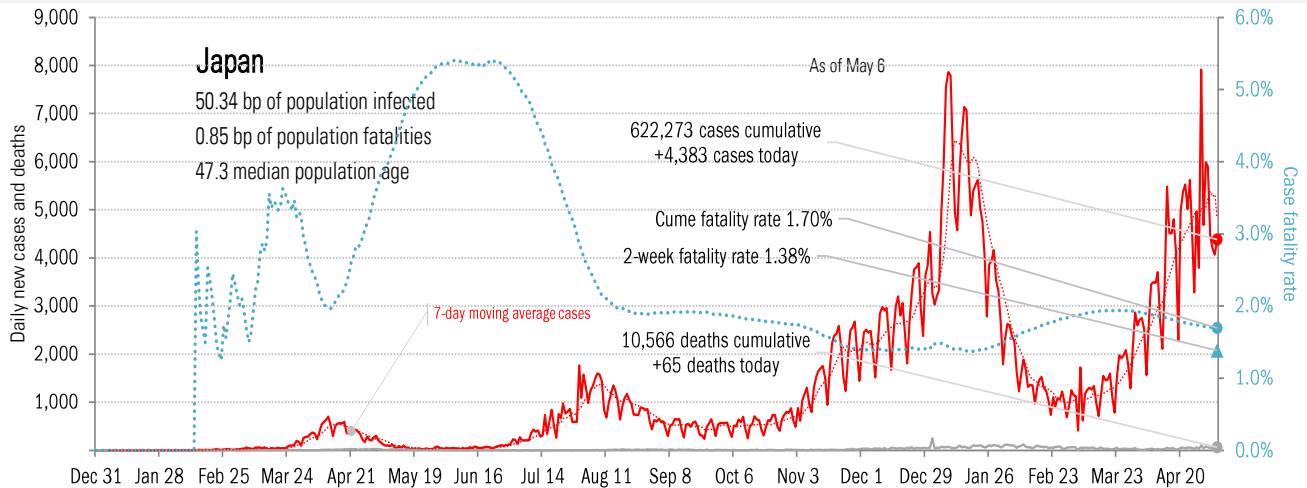
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



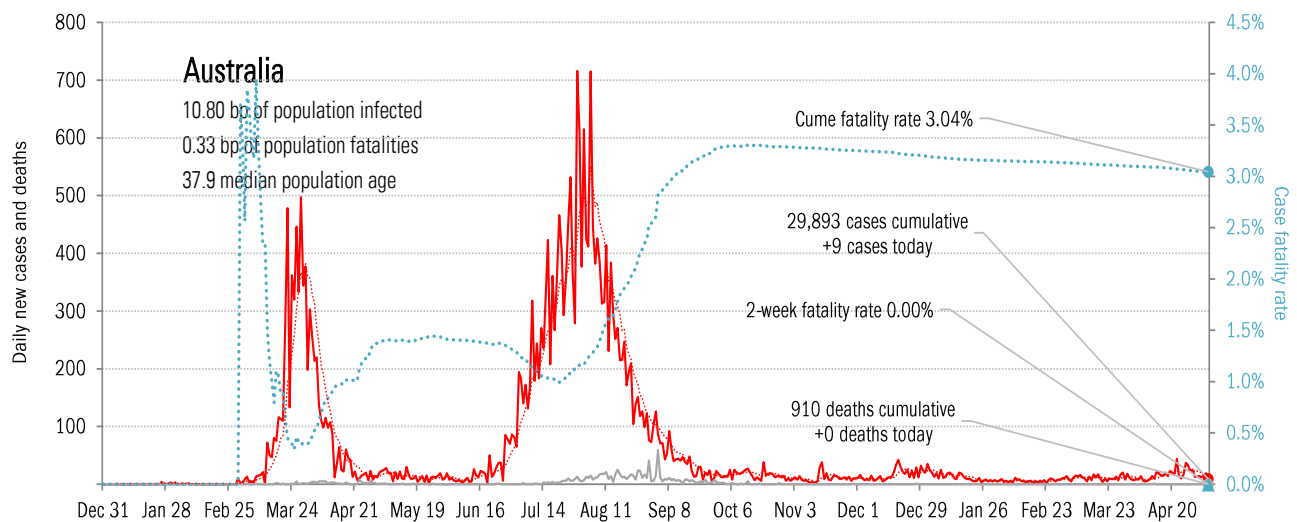
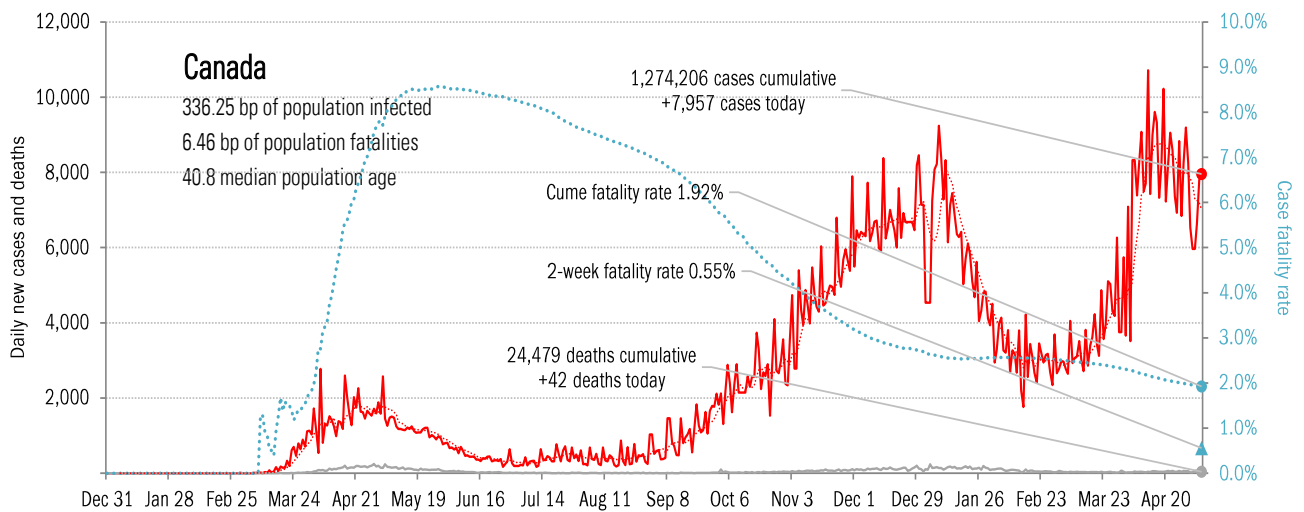
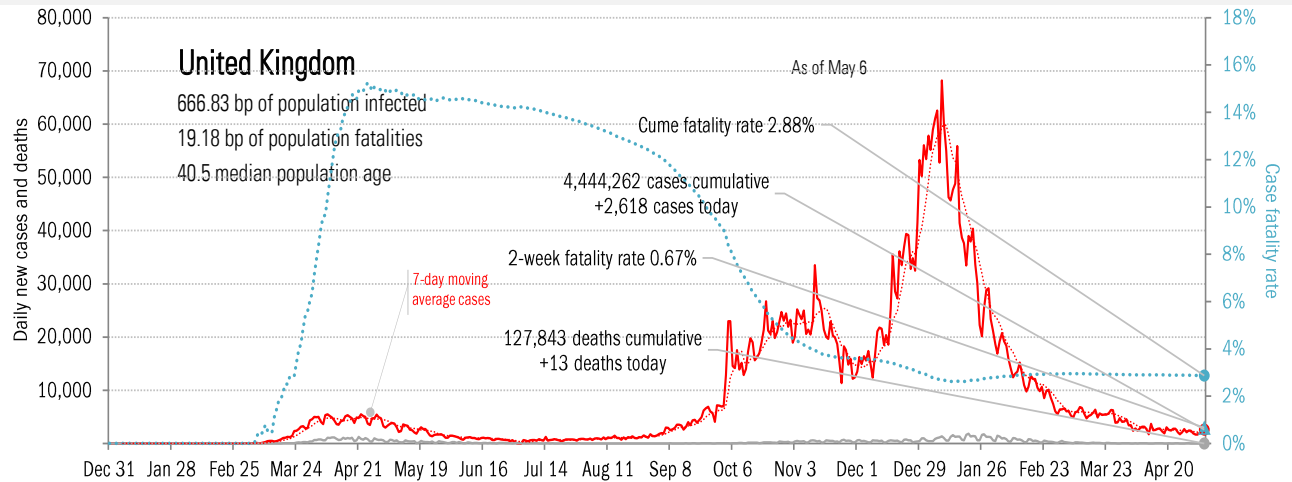
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



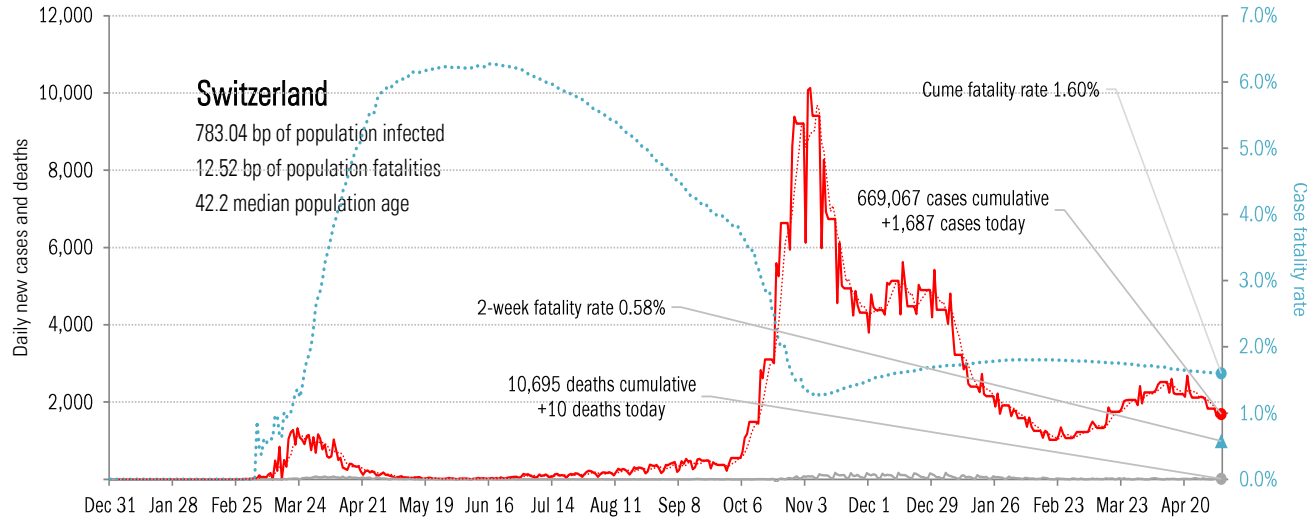
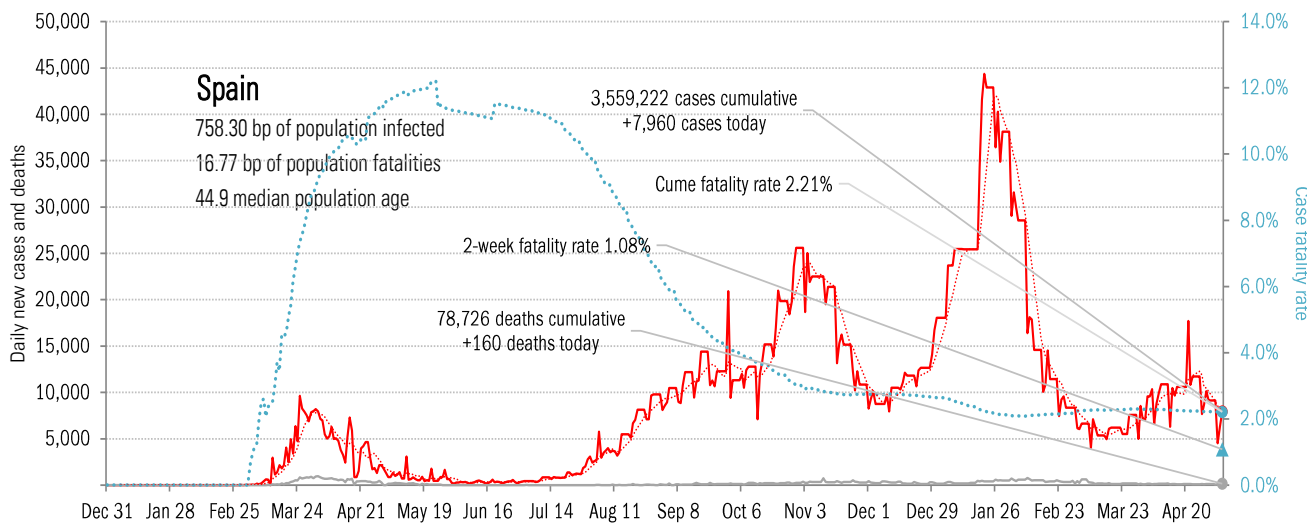
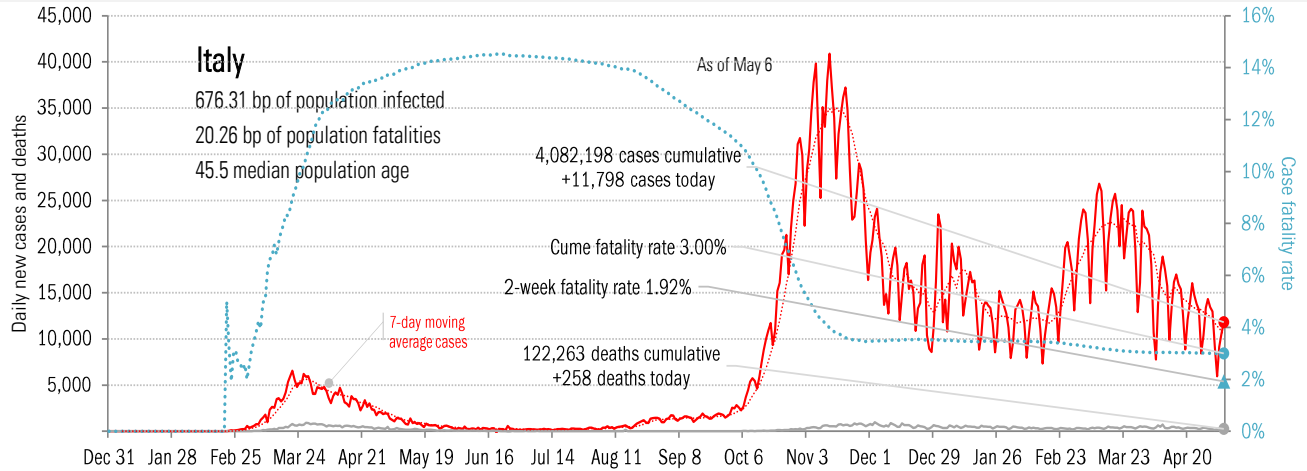
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



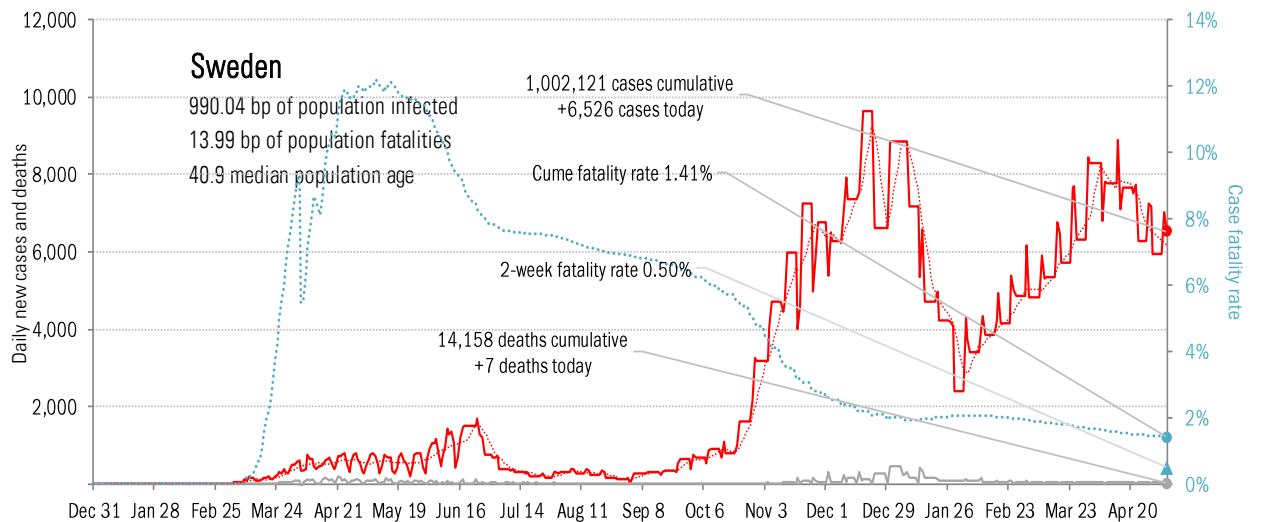
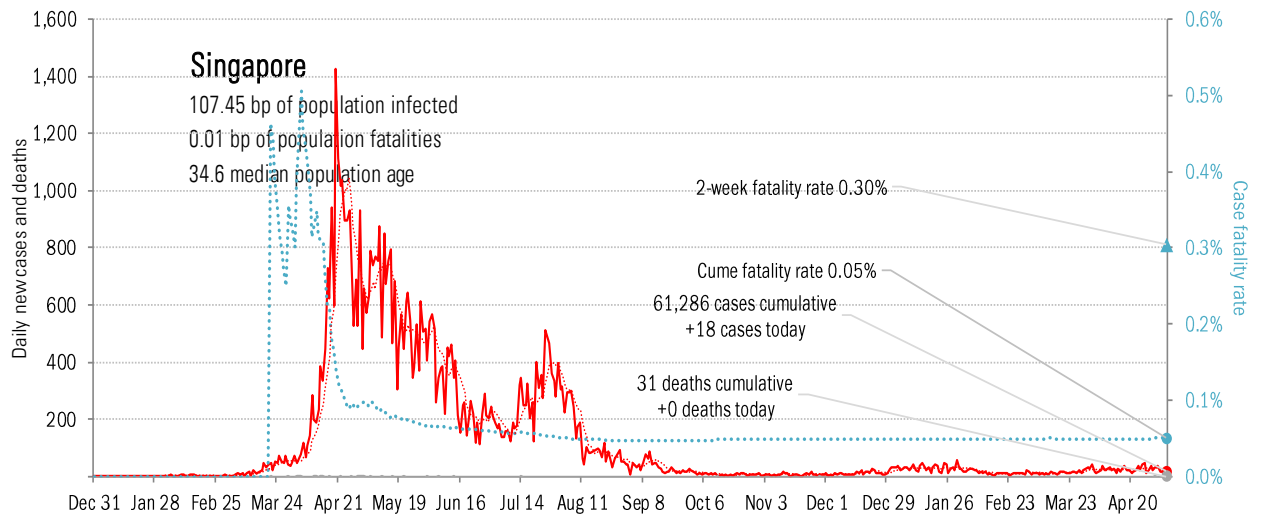
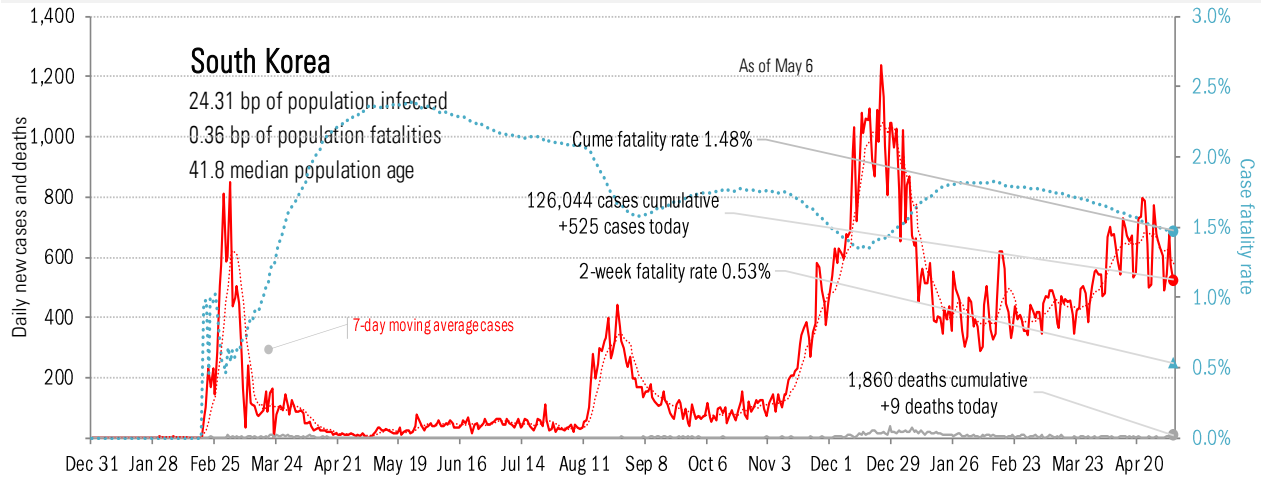
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



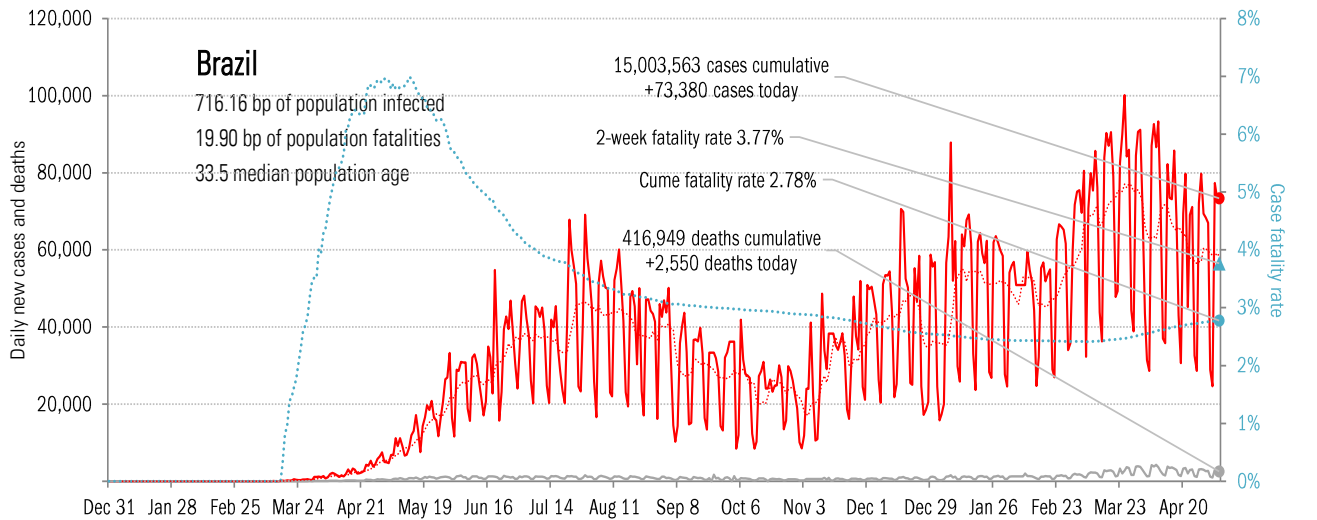
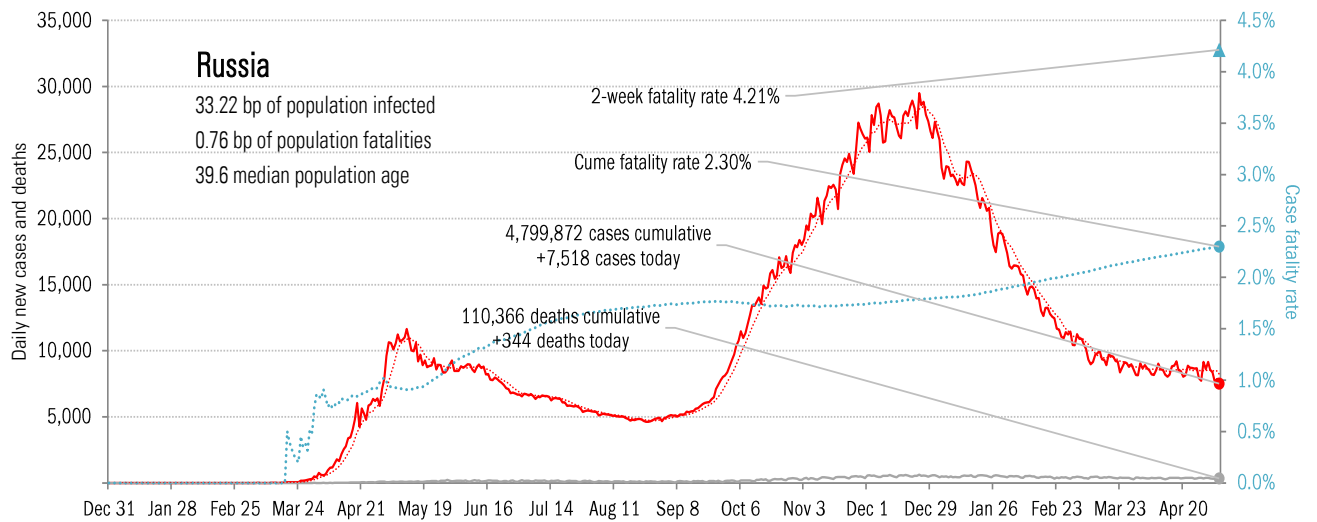
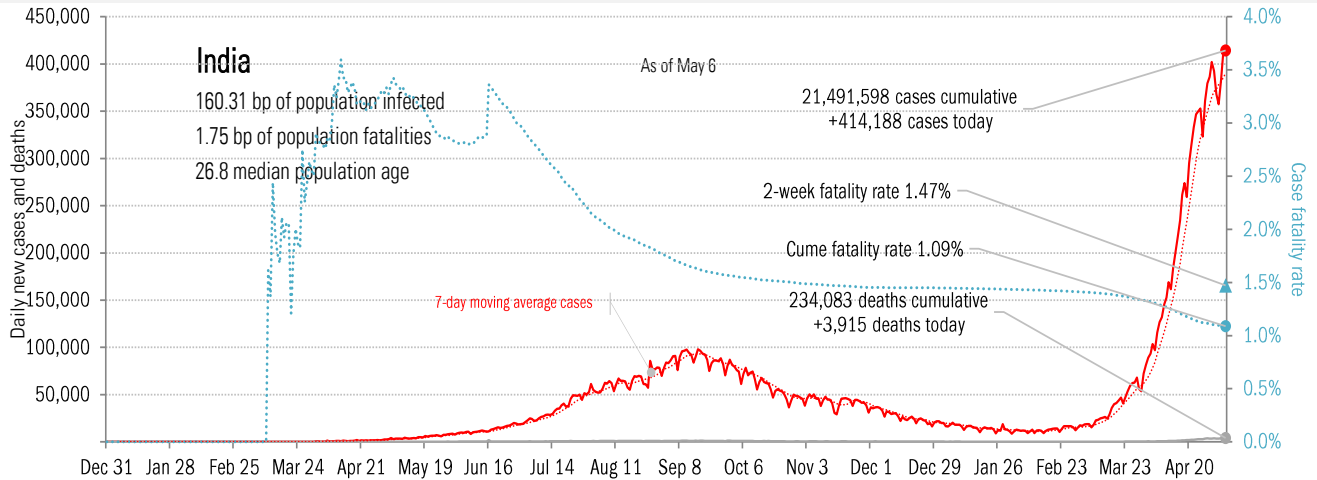
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



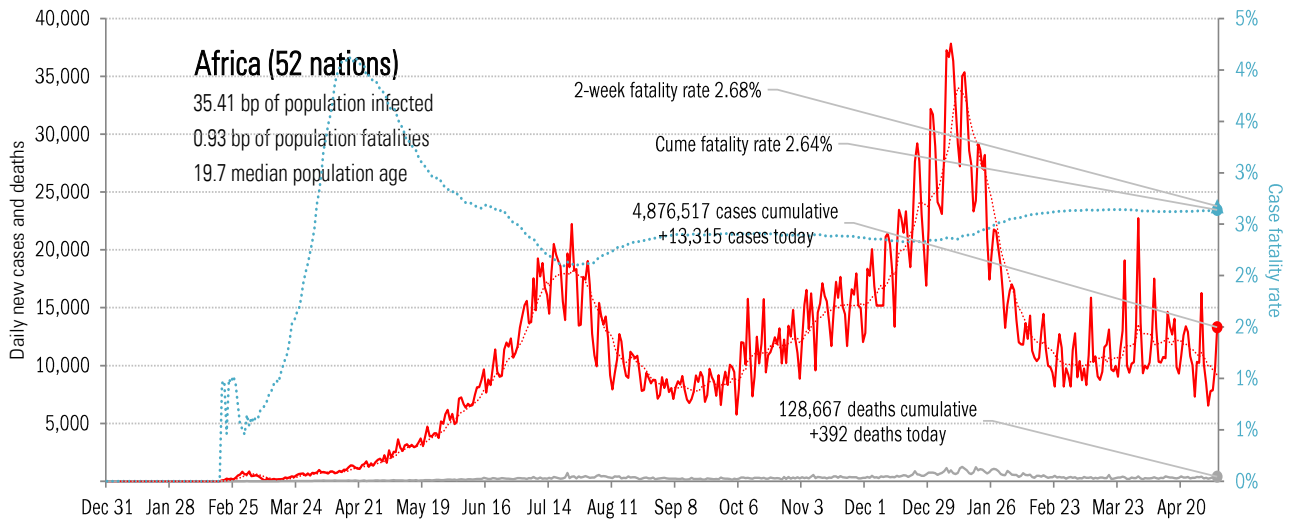
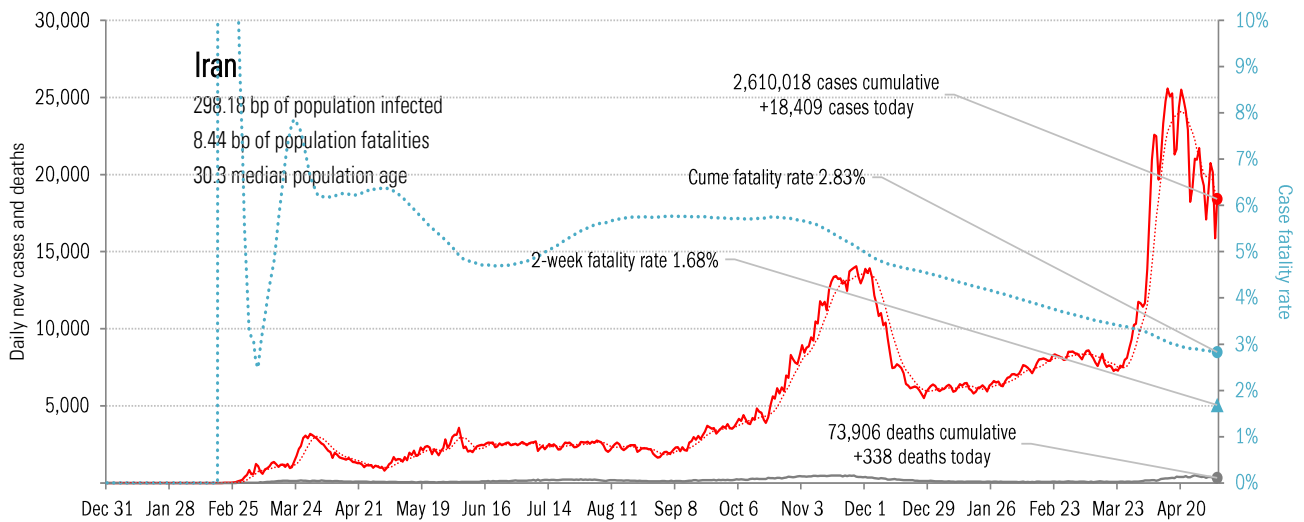
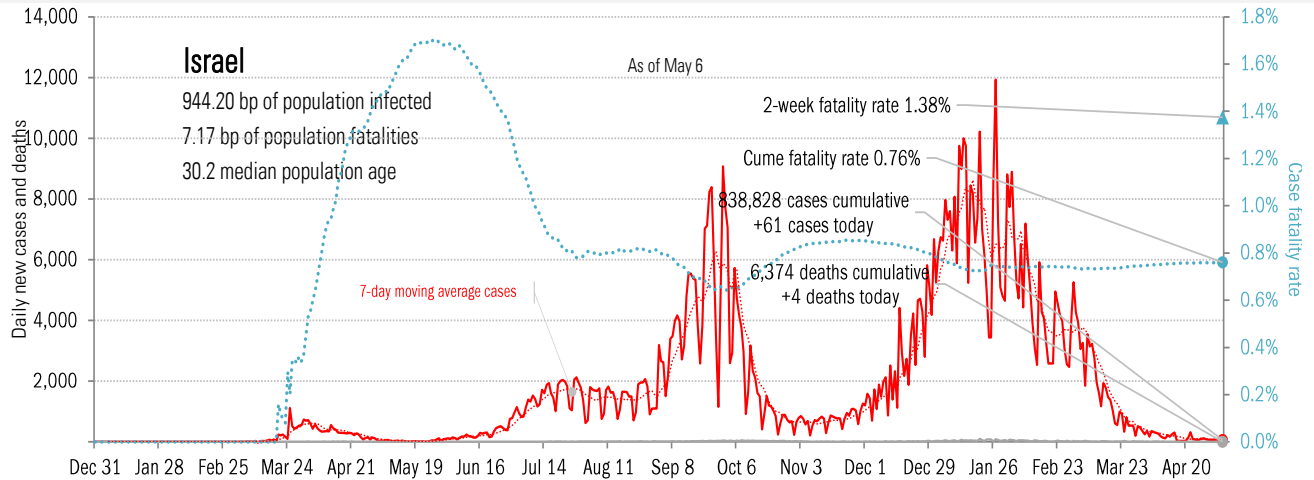
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



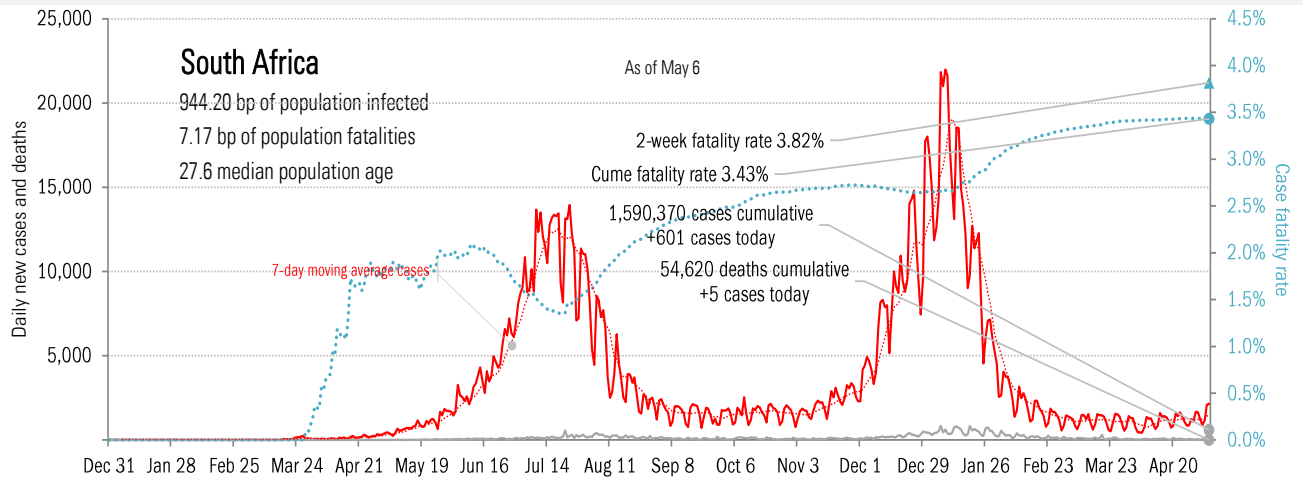
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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