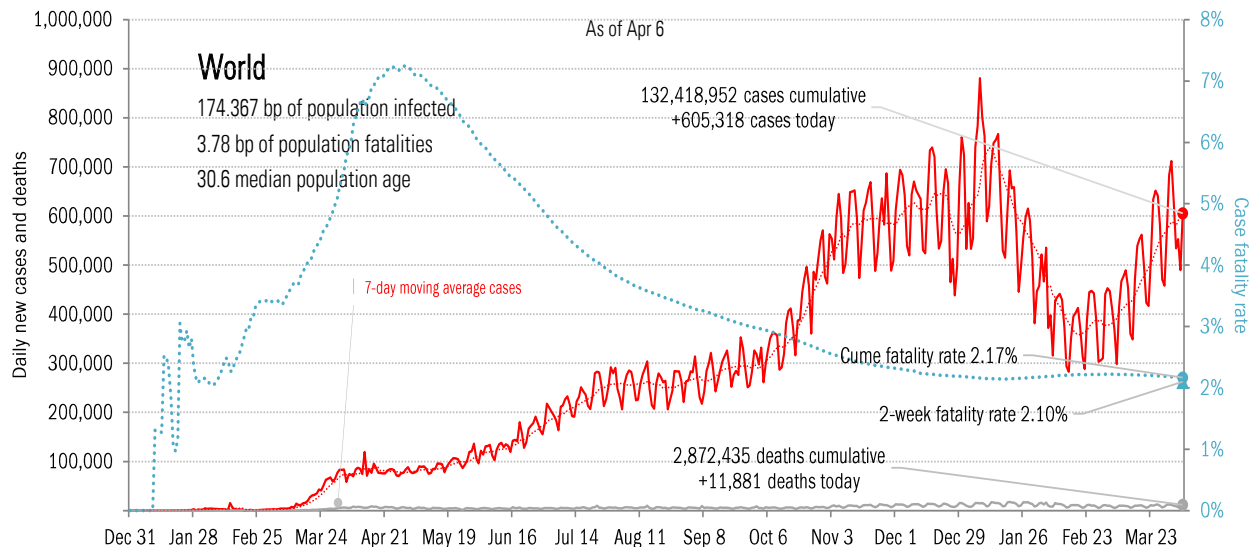
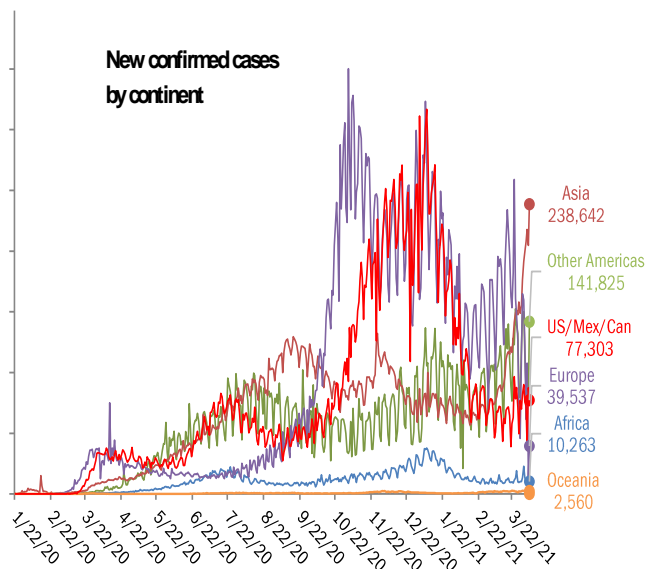


Data Insights: Covid-2019 Monitor

Wednesday, April 7, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+115,736	Brazil	+4,195
Brazil	+86,979	United States	+915
United States	+61,775	India	+630
Turkey	+49,584	Mexico	+586
Sweden	+21,802	Ukraine	+437
Argentina	+20,870	France	+426
Iran	+17,430	Italy	+421
Ukraine	+13,398	Philippines	+382
Colombia	+11,827	Russia	+382
Canada	+10,724	Colombia	+231
+410,125		+8,605	
World	+605,318	World	+11,881
Top ten	68%	Top ten	72%



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

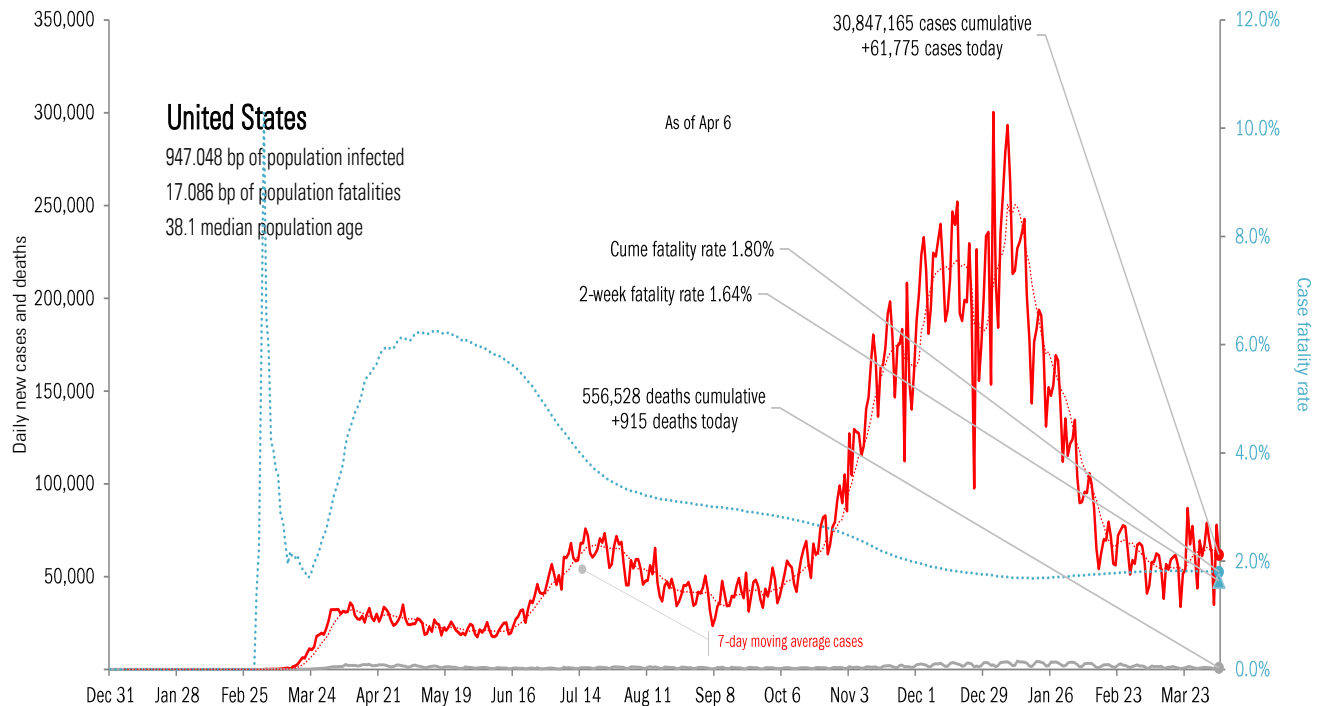
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
MI	+6,149		CH	+98		FR	+199		CA	3,685,045		CA	59,887		TX	227,856		R	90%	MI	22%
NY	+6,041		CA	+88		MI	+167		TX	2,811,270		NY	50,751		CA	223,829		MD	83%	MD	21%
FL	+5,556		TX	+86		PA	+66		FL	2,090,862		TX	48,815		FL	154,044		MA	83%	NY	19%
PA	+4,722		FL	+70		IL	+50		NY	1,918,437		FL	33,780		NY	117,289		CT	79%	PA	14%
TX	+4,362		MI	+61		IN	+29		IL	1,261,577		PA	25,217		GA	95,447		PA	79%	MN	13%
NJ	+3,710		NJ	+51		MN	+24		GA	1,066,671		NJ	24,700		CH	76,322		MI	78%	WV	13%
MN	+3,012		NY	+45		FL	+20		PA	1,052,450		IL	23,673		PA	75,283		MO	78%	TX	13%
IL	+2,947		VA	+41		SC	+20		CH	1,028,800		GA	19,238		IL	69,309		FL	78%	DC	13%
CA	+2,184		TN	+38		NC	+19		NJ	933,736		CH	18,741		KY	68,680		WV	77%	ID	13%
CH	+1,871		PA	+37		WA	+19		NC	923,430		MI	17,343		AZ	58,624		GA	76%	NJ	13%
+40,554			+615			+613			16,772,278			322,145			1,166,683						
All states	+61,775		+915			+447			All states	30,847,165		556,528			2,077,072			All states	70%	67%	
Top ten	66%		67%			137%			Top ten	54%		58%			56%			Median	70%	9%	

Some states not reporting

Five most improved US states

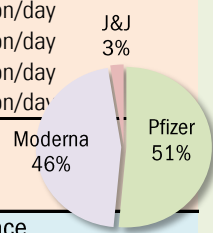
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NC	-5,531	MA	-32	NY	-162	VT	+48 bp
MI	-4,933	NY	-28	CH	-133	TX	+43 bp
CA	-3,935	NC	-21	NJ	-73	MD	+43 bp
TN	-2,422	CT	-12	VA	-53	R	+43 bp
CT	-1,625	KY	-9	GA	-39	NJ	+42 bp



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
228.98 million doses distributed	+11.82 million/day	US	18.8%	32.4%
175.34 million doses administered	+1.43 million/day	UK	8.1%	46.6%
111.95 million persons partially immunized	+0.78 million/day	France	4.6%	13.7%
65.59 million persons fully immunized	+0.62 million/day	Spain	6.2%	13.1%
7.75 million shots long-term care residents/staff	+0.01 million/day	Germany	5.4%	12.6%
76.6% of distributed doses administered		Italy	5.9%	13.2%
33.5% of US pop partial	19.6% full immunity	Australia	0.7%	0.6%
100% of LTC partial	63.6% full immunity	Israel	56.3%	61.0%
		Canada	1.9%	16.0%
		Japan	0.2%	0.8%
		Africa	0.3%	0.6%
		India	0.8%	5.5%
		Brazil	2.4%	8.4%



At today's dosing pace, every American >18 immune in **188 days** by Oct 10, 2021

US achieves adult herd immunity* in **84 days** by Jun 29, 2021

Global data differs from sources, timing

State	Doses distributed as % population	Partial immunity as % population	Full immunity as % population
AK	90.0%	35.4%	24.5%
ME	71.2%	38.7%	23.8%
VT	76.0%	65.2%	42.0%
NH	37.8%	42.0%	20.1%
WI	66.2%	35.3%	21.4%
NY	68.7%	34.7%	21.3%
MA	71.0%	38.5%	21.8%
WA	67.6%	33.2%	20.8%
ID	60.8%	28.3%	18.4%
MT	68.9%	33.3%	21.6%
ND	68.4%	34.6%	23.2%
MN	61.4%	34.9%	21.8%
IL	65.7%	34.6%	18.6%
MI	67.4%	31.6%	19.5%
OR	66.1%	31.5%	19.2%
NV	61.1%	30.1%	18.2%
WY	73.2%	29.2%	20.7%
SD	77.6%	37.8%	25.0%
IA	65.3%	34.0%	21.8%
IN	61.1%	27.7%	18.6%
OH	66.1%	32.4%	19.2%
PA	66.9%	35.4%	19.1%
NJ	63.6%	37.2%	21.9%
CT	78.7%	39.0%	23.6%
RI	70.6%	36.8%	24.9%
CA	68.3%	34.5%	18.3%
UT	57.2%	28.9%	13.8%
CO	64.6%	33.6%	19.6%
NE	68.2%	33.7%	21.1%
MO	62.3%	28.6%	17.6%
KY	66.1%	33.5%	20.3%
WV	72.8%	31.9%	21.3%
VA	65.7%	35.2%	19.8%
MD	67.4%	34.5%	20.2%
DE	69.2%	34.9%	18.4%
AZ	65.4%	32.3%	19.2%
NM	76.6%	41.2%	26.3%
KS	65.3%	34.0%	19.3%
AR	65.5%	28.8%	16.2%
TN	62.1%	27.4%	15.6%
NC	63.0%	31.2%	18.3%
SC	63.1%	29.3%	16.8%
DC	79.7%	31.0%	16.0%
OK	73.3%	33.3%	20.5%
LA	65.7%	27.8%	18.4%
MS	63.1%	26.0%	16.9%
AL	63.4%	25.9%	14.8%
GA	62.8%	26.5%	13.4%
HI	75.8%	34.2%	21.4%
TX	60.3%	28.9%	16.5%
FL	68.5%	30.8%	18.1%
PR	67.6%	24.1%	14.0%

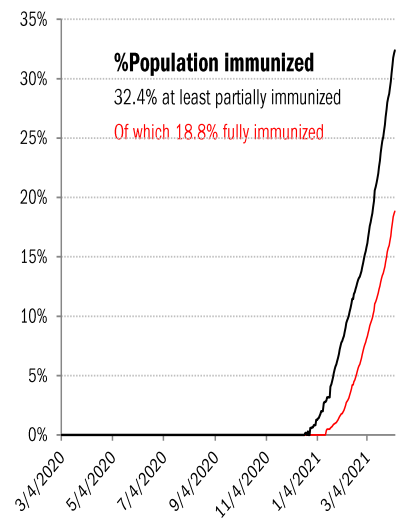
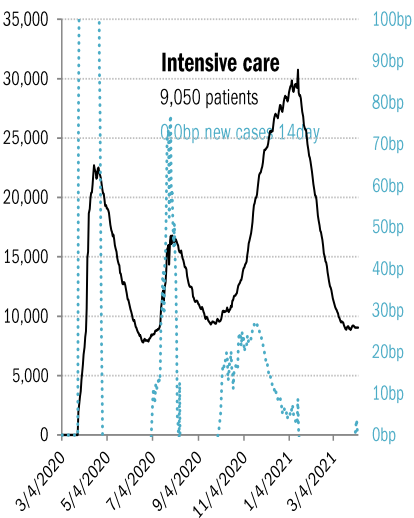
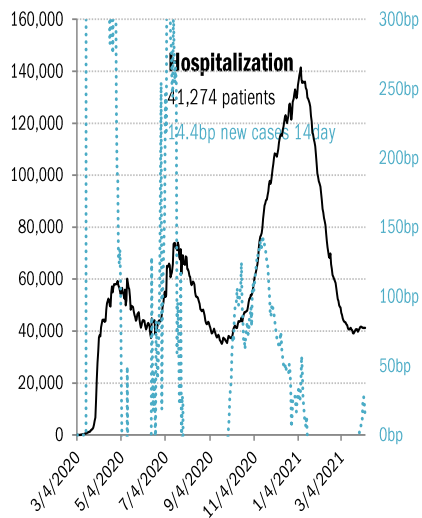
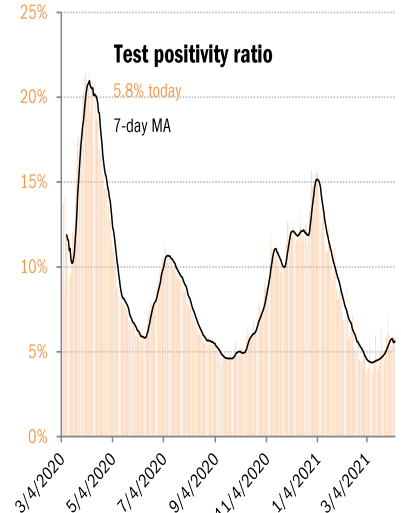
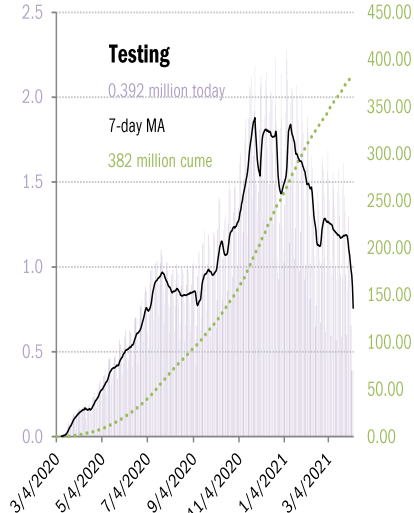
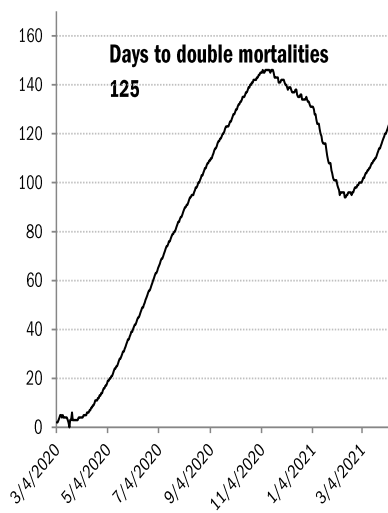
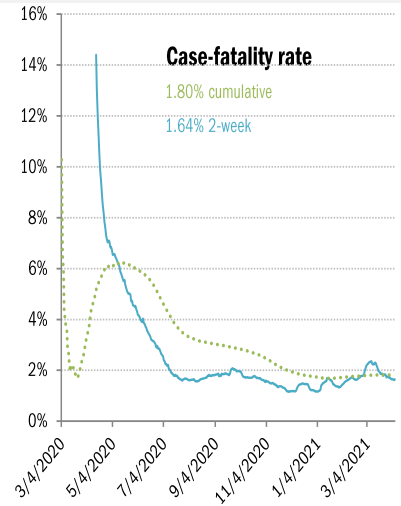
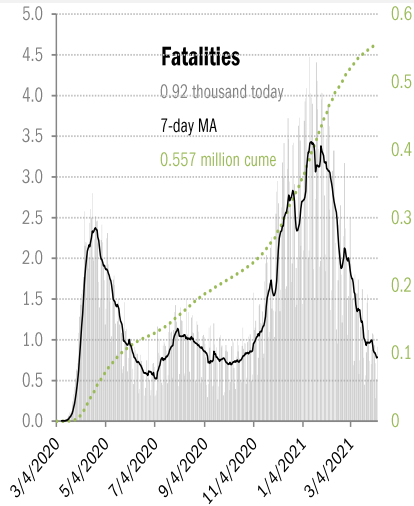
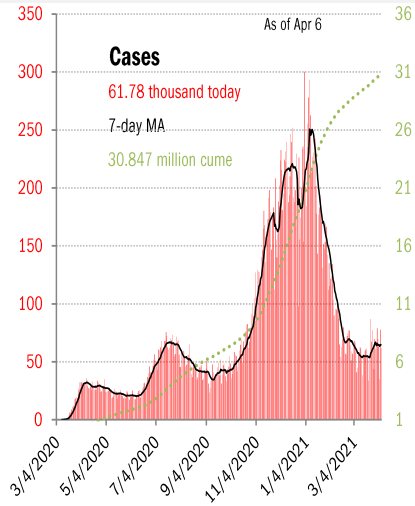
As of Apr 6

* Adult herd immunity is 60% of population over 18 years either fully vaccinated or prior tested positive, no overlap

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

US deep-dive

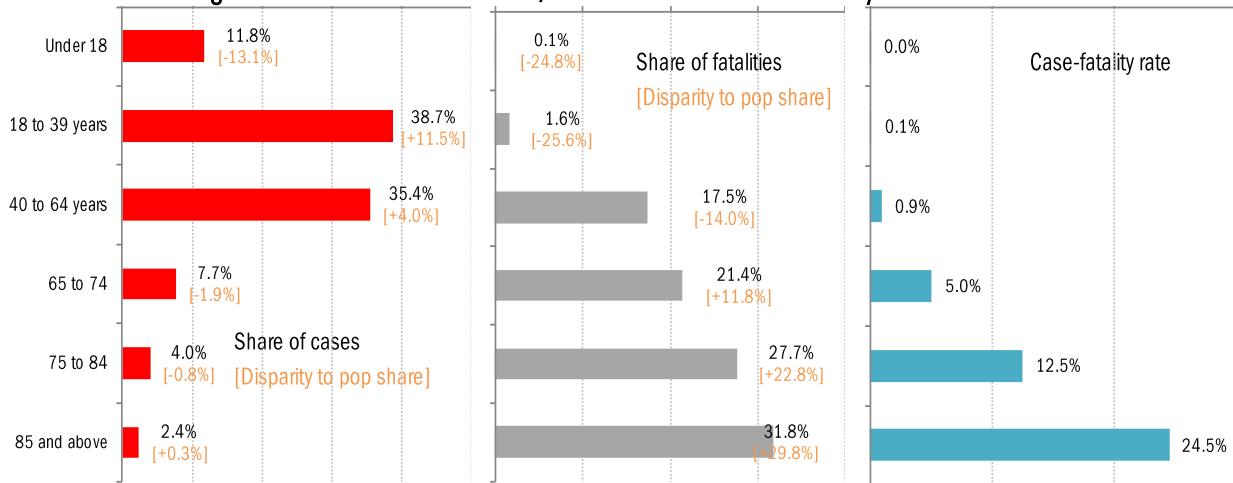
National and state-by-state data do not line up because of different sources



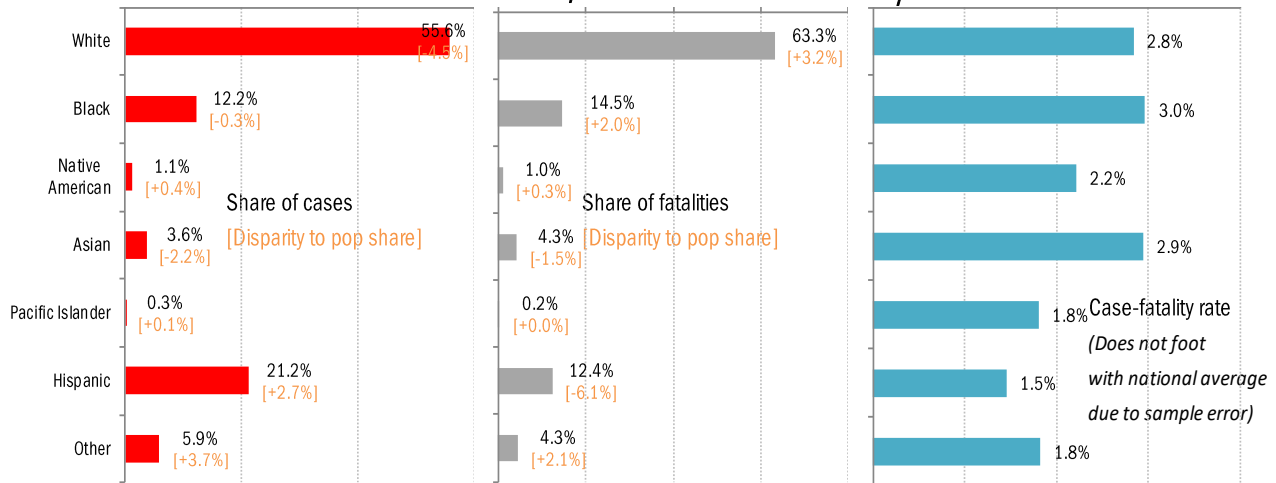
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

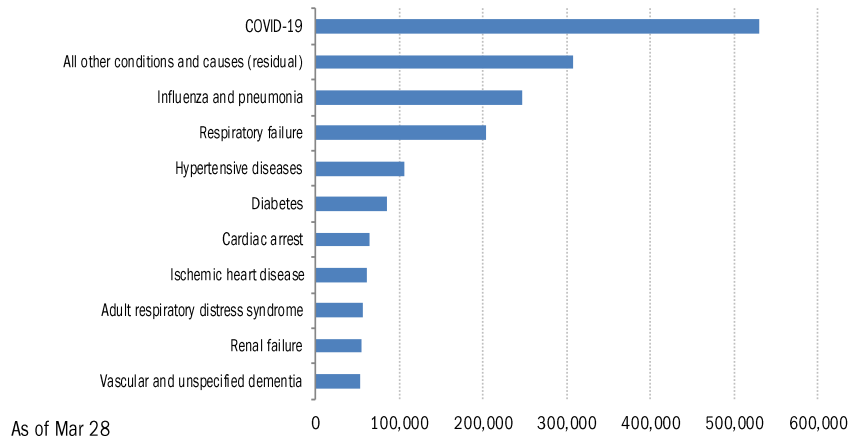


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



For 6% 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

[Fauci on Texas](#)

YouTube

April 6, 2021

[Researchers Are Hatching a Low-Cost Coronavirus Vaccine](#)

Carl Zimmer

New York Times

April 5, 2021

[Dr. Fauci Can't Explain Why Texas COVID Cases Keep Dropping Despite Reopening](#)

Tyler Durden

Zero Hedge

April 6, 2021

[Is CDC Director Rochelle Walensky Just Unable to Communicate Clearly?](#)

Jim Geraghty

National Review

April 6, 2021

[Desperate to Advance a Cure for a Deadly Virus, U.S. Schools Played Critical Role In 1950s Polio Vaccine Trials](#)

Harry McCracken

The 74

April 6, 2021

[‘Disgrace’: Belgium criticised after court order to lift all Covid measures](#)

Maïthé Chini

Brussels Times

March 31, 2021

[The ‘Joy and Envy’ of Seeing All Your Friends Get Vaccinated](#)

Jenny Gross and Jesus Jiménez

New York Times

April 6, 2021

Meme of day

Health

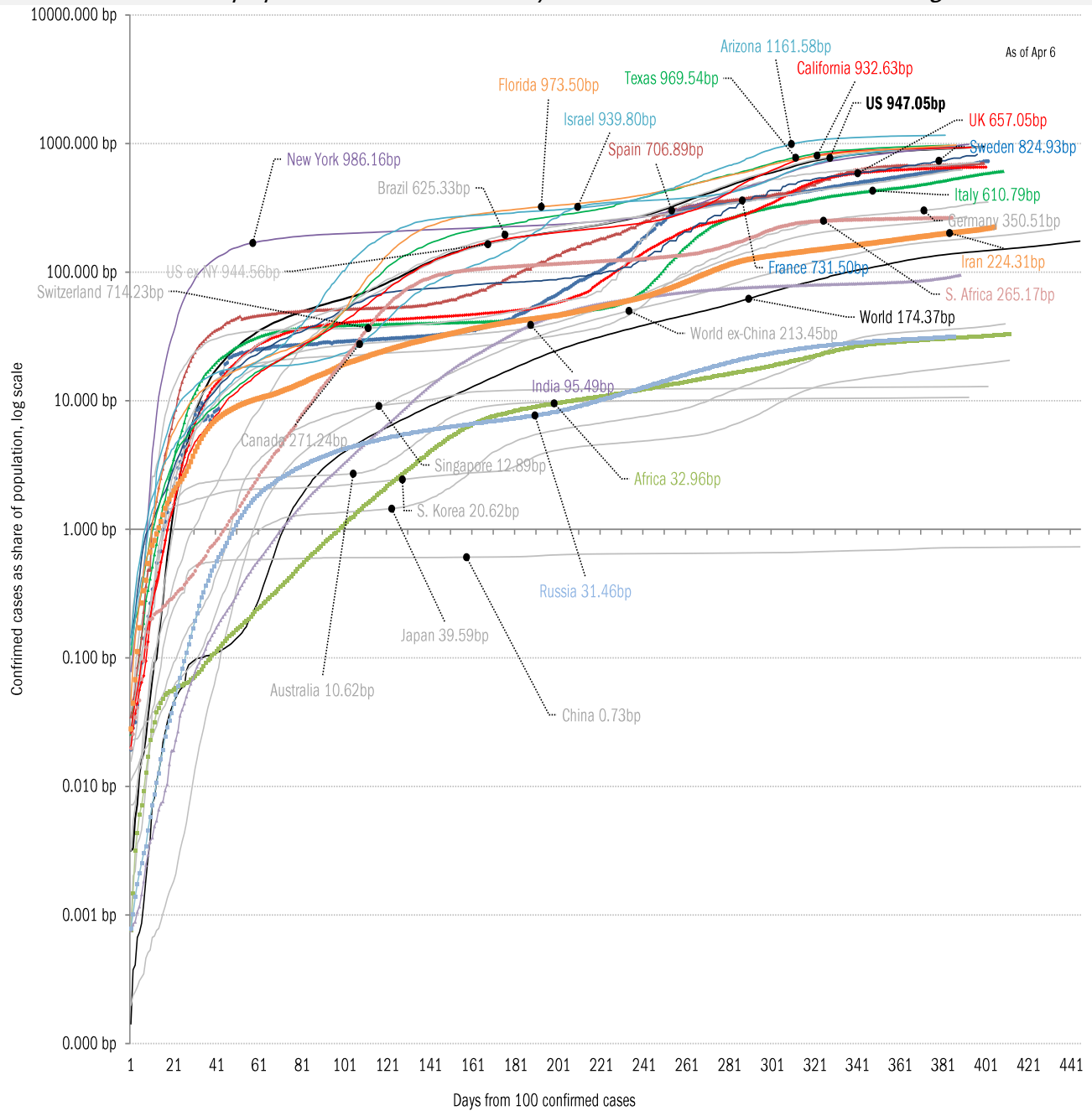
Dr. Fauci Predicts At Least 3 More COVID Variants May Be Required To Completely Break America's Spirit

April 6th, 2021 - BabylonBee.com



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

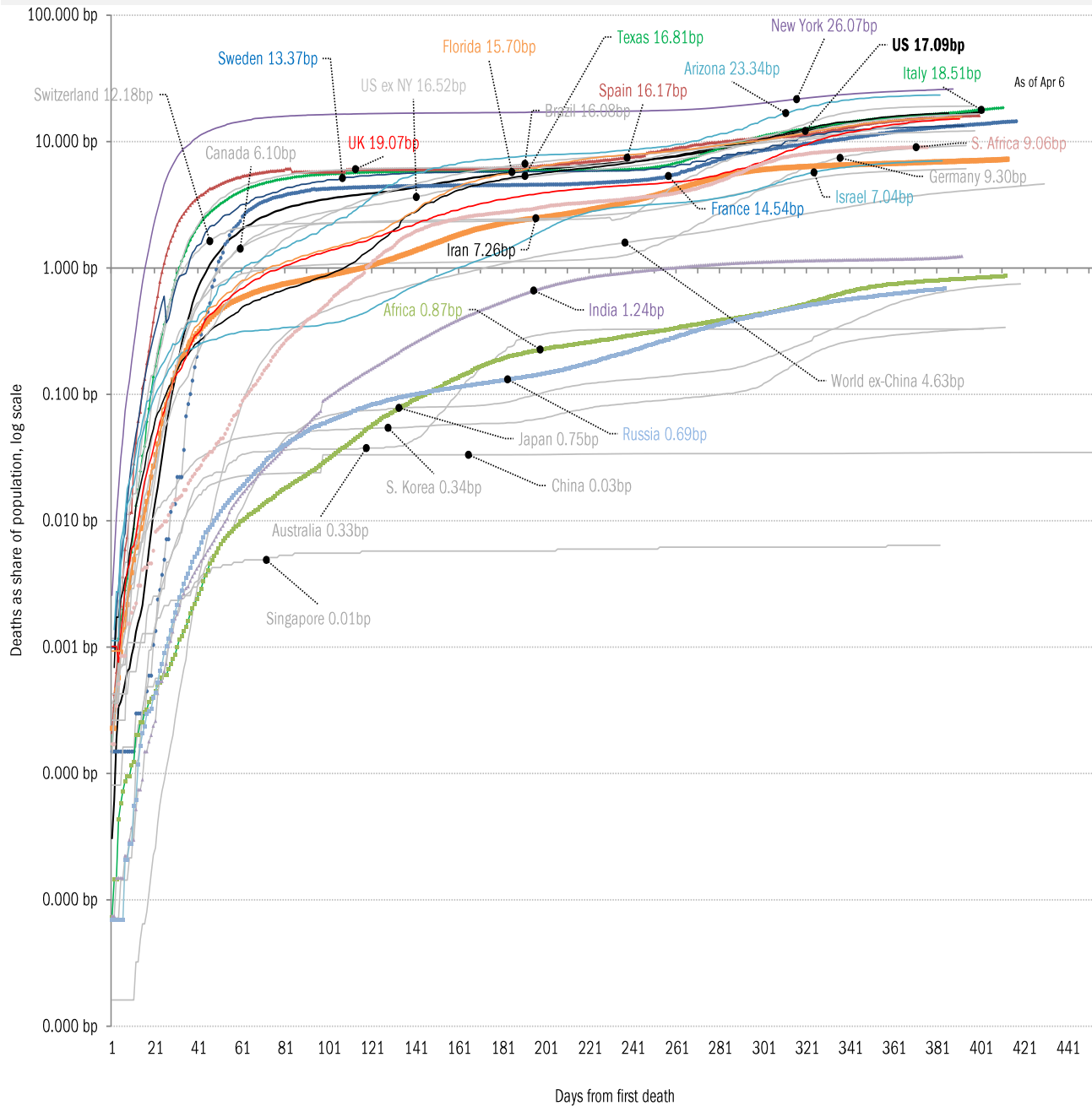
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

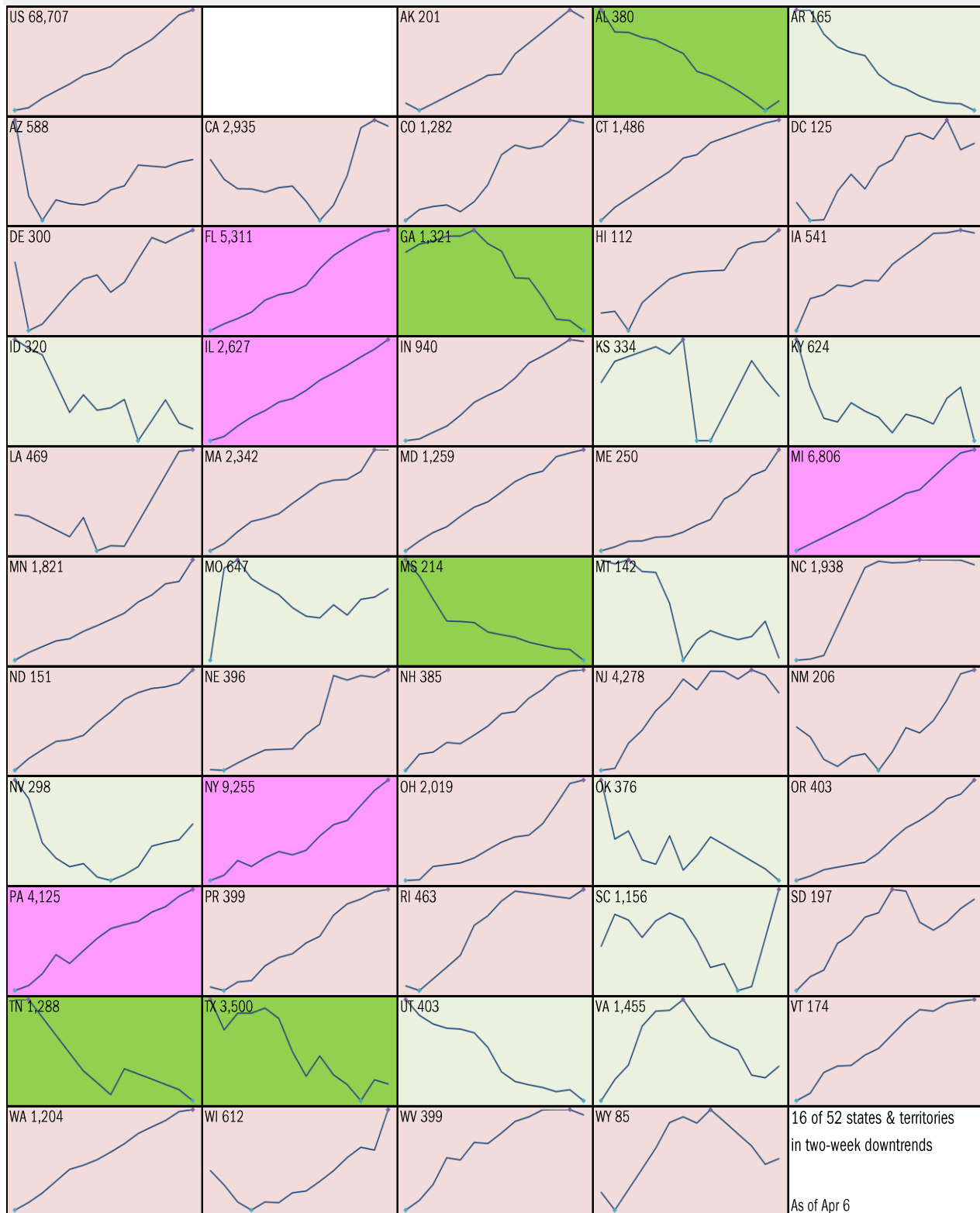


Source: [Johns Hopkins](#), TrendMacro calculations

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

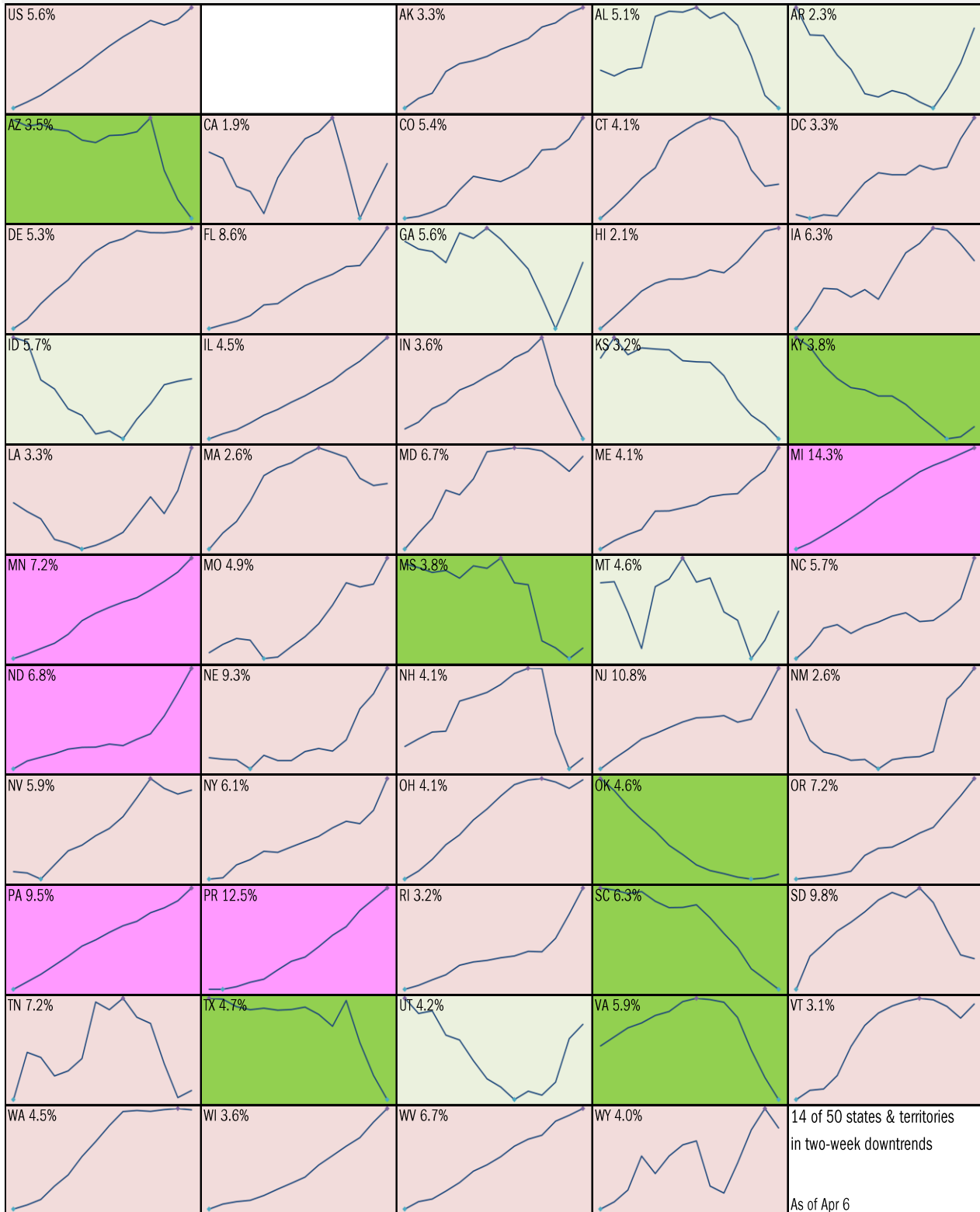


Source: [Johns Hopkins](#), TrendMacro calculations

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

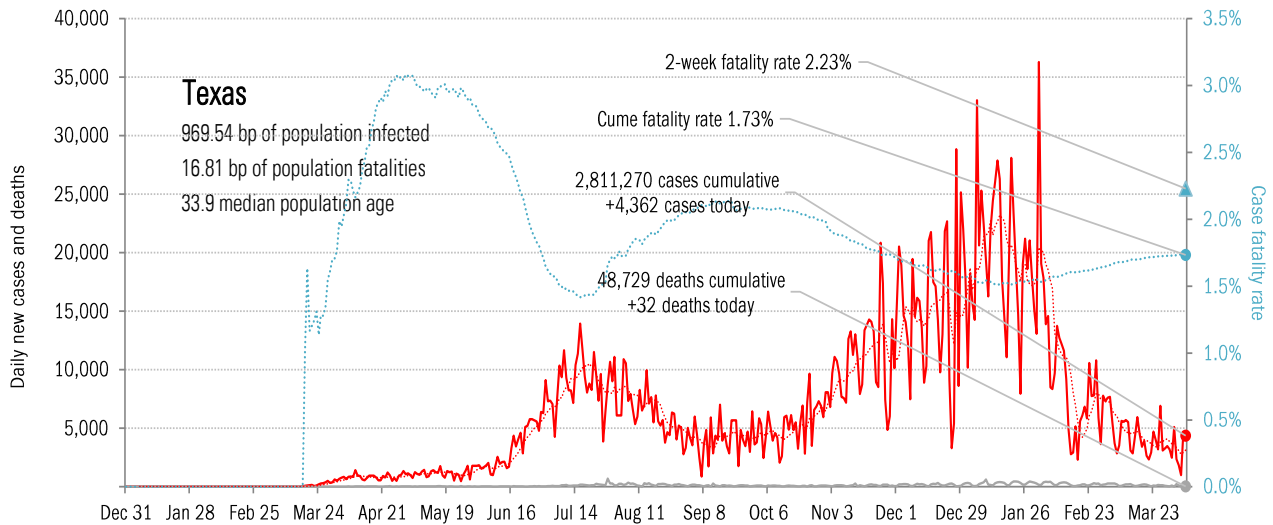
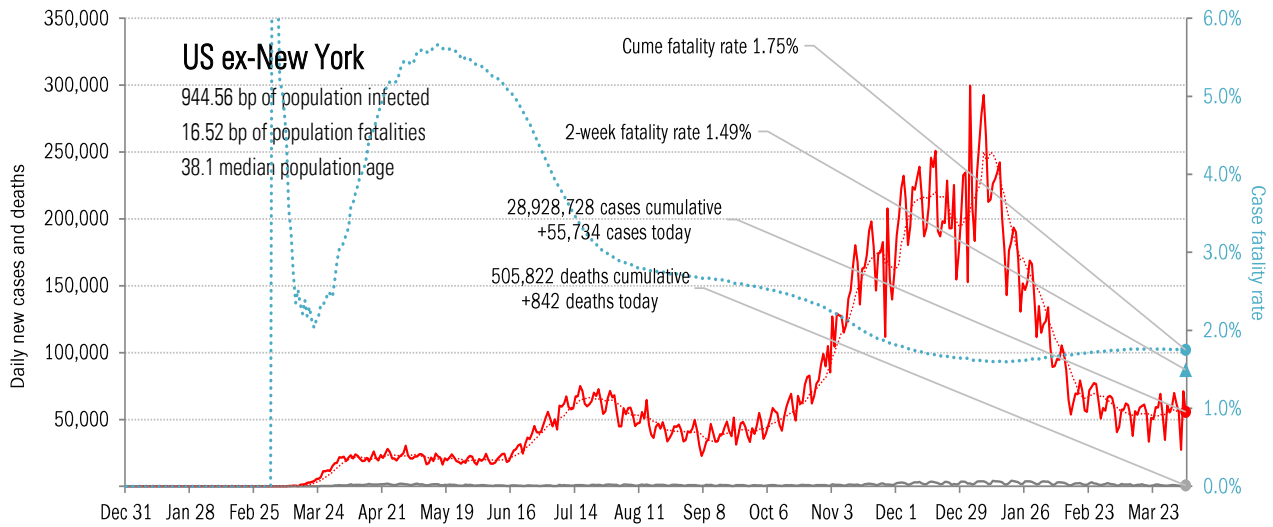
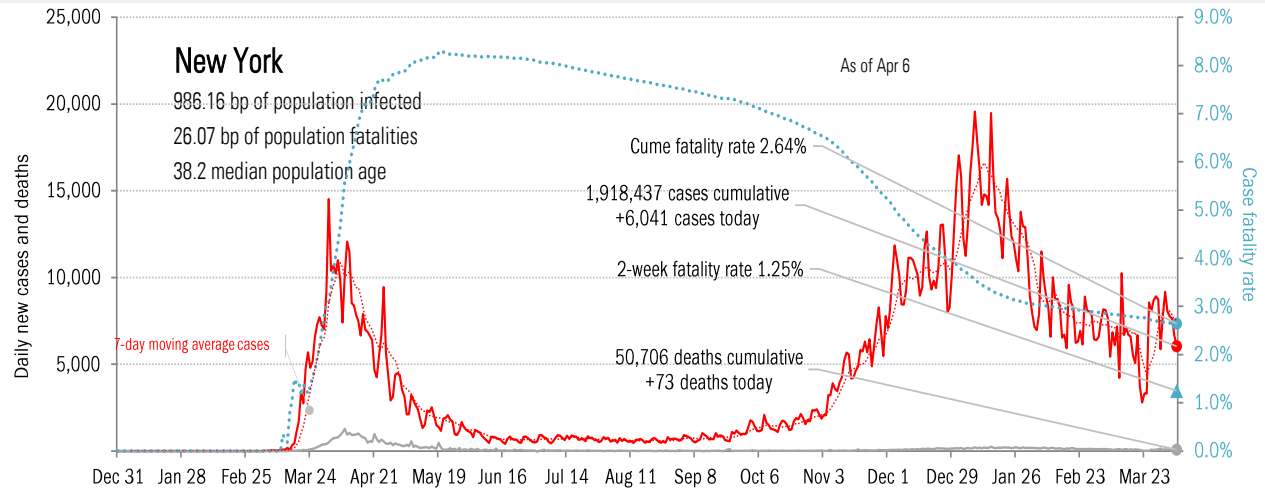
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



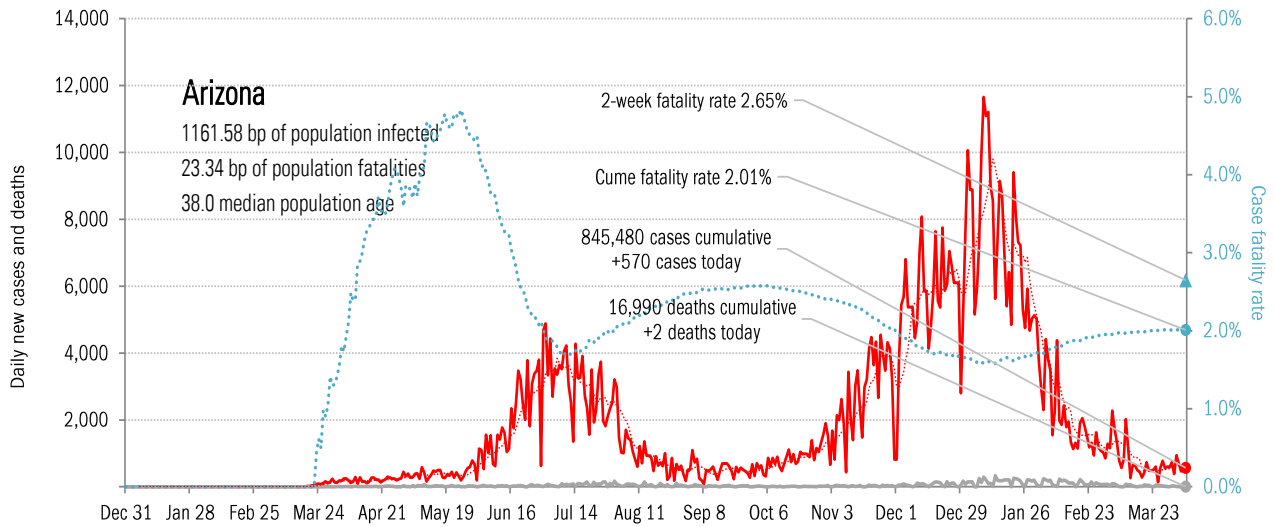
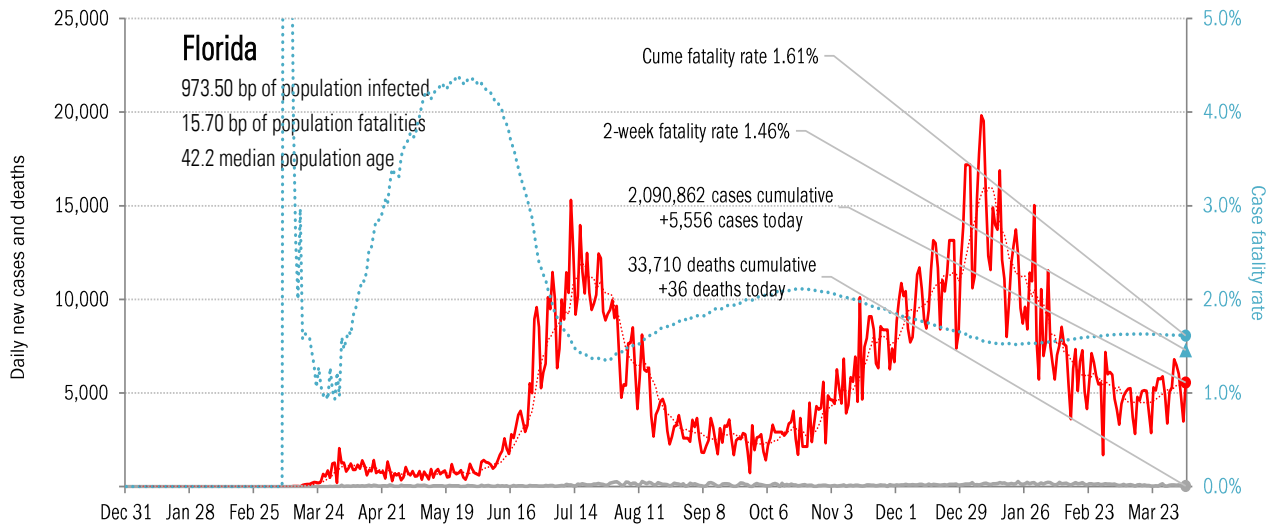
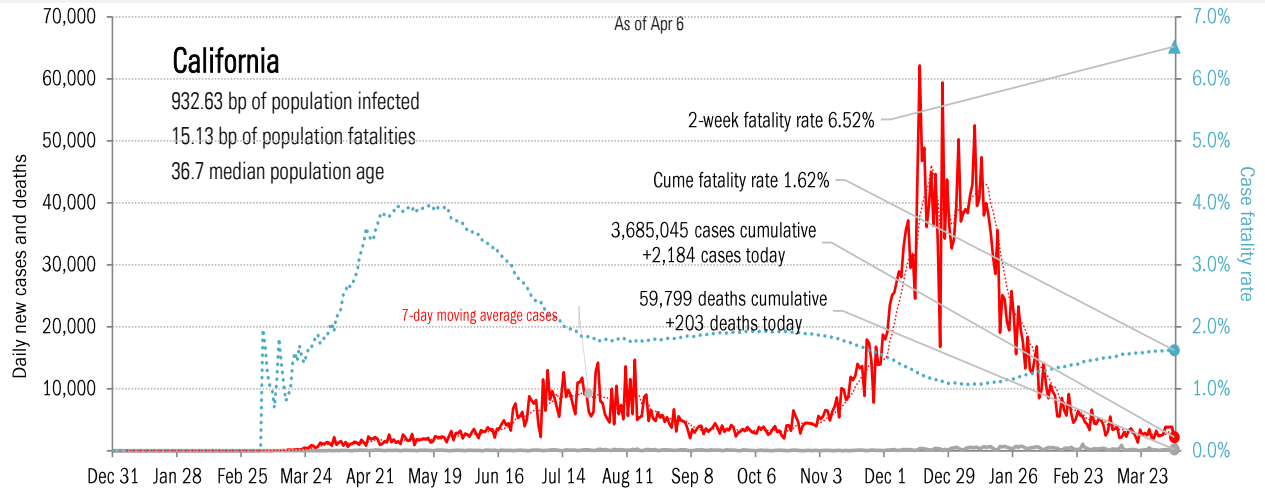
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



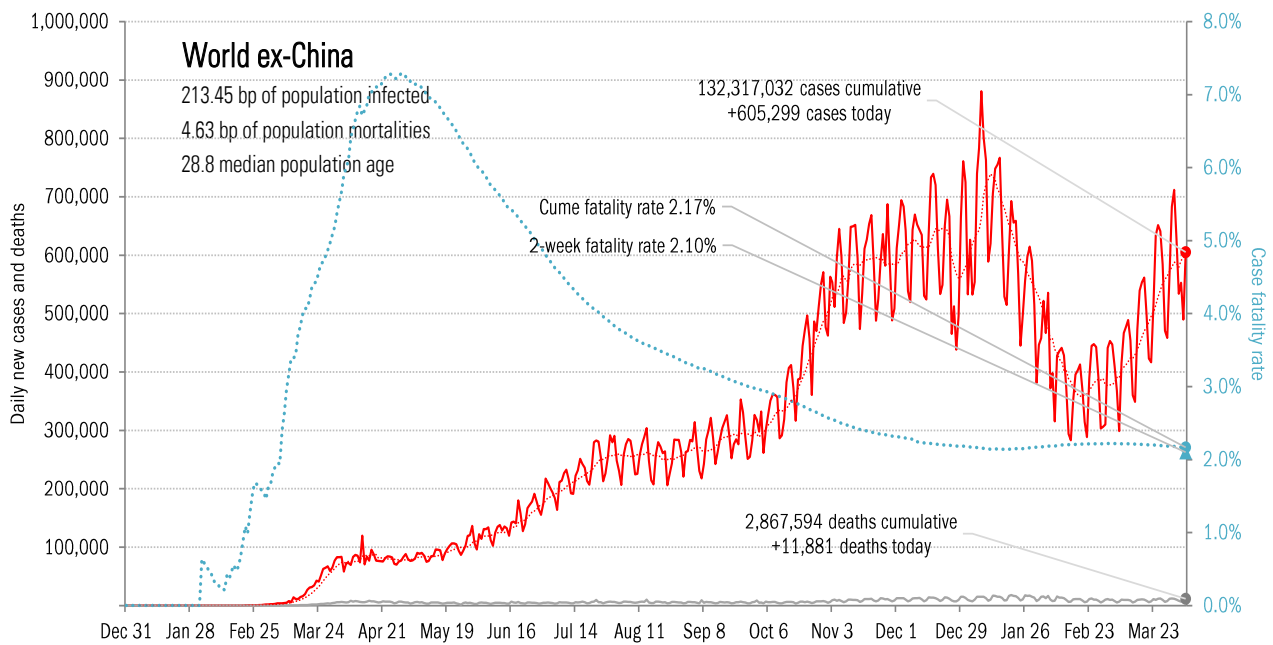
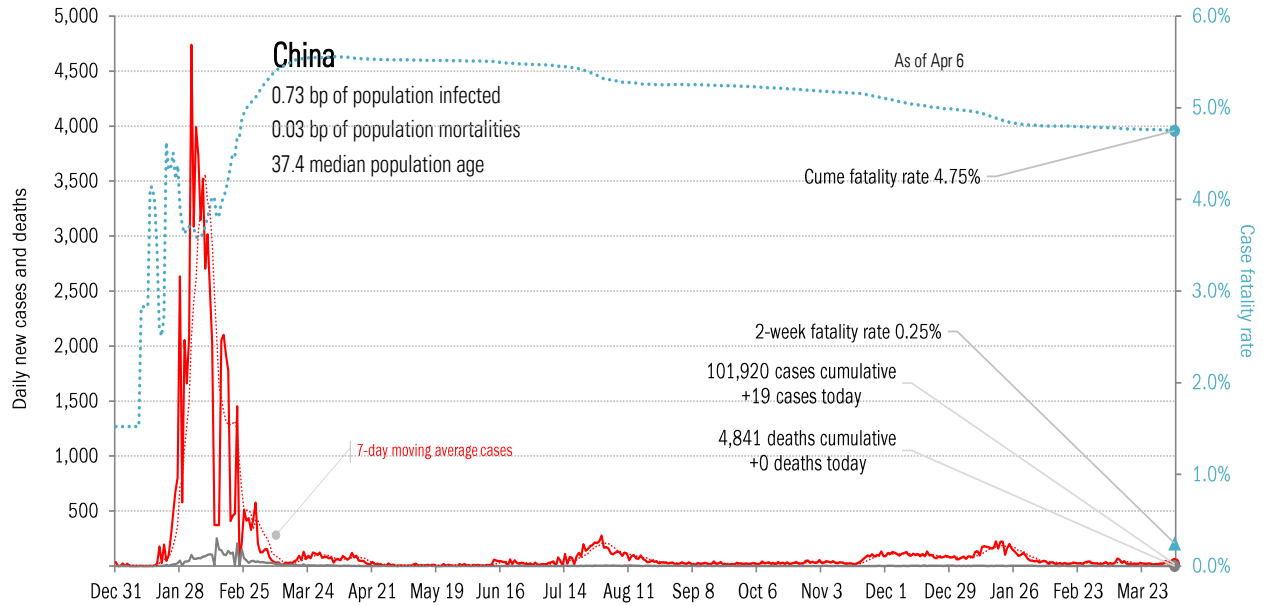
Source: [Johns Hopkins](#), TrendMacro calculations

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



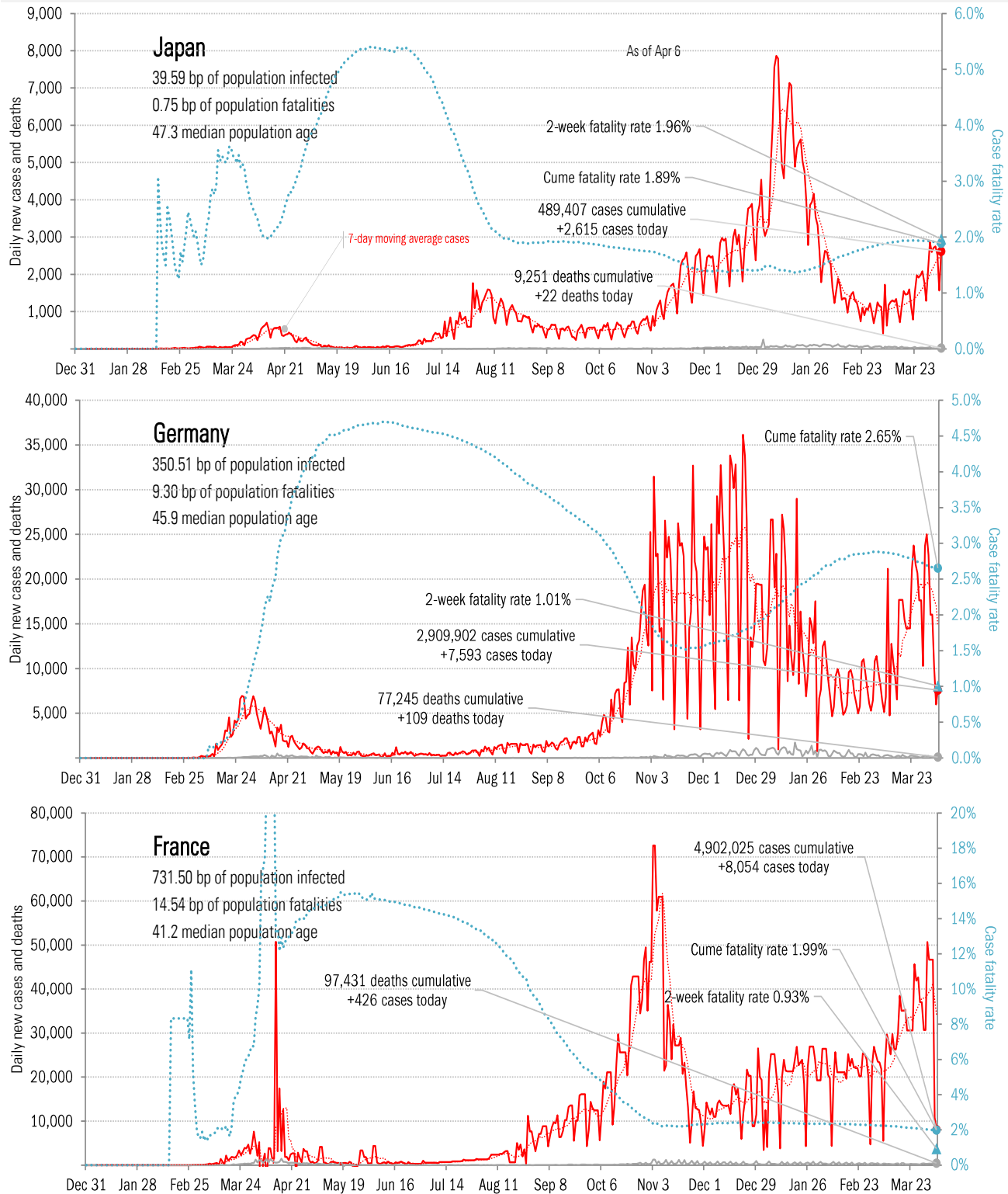
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



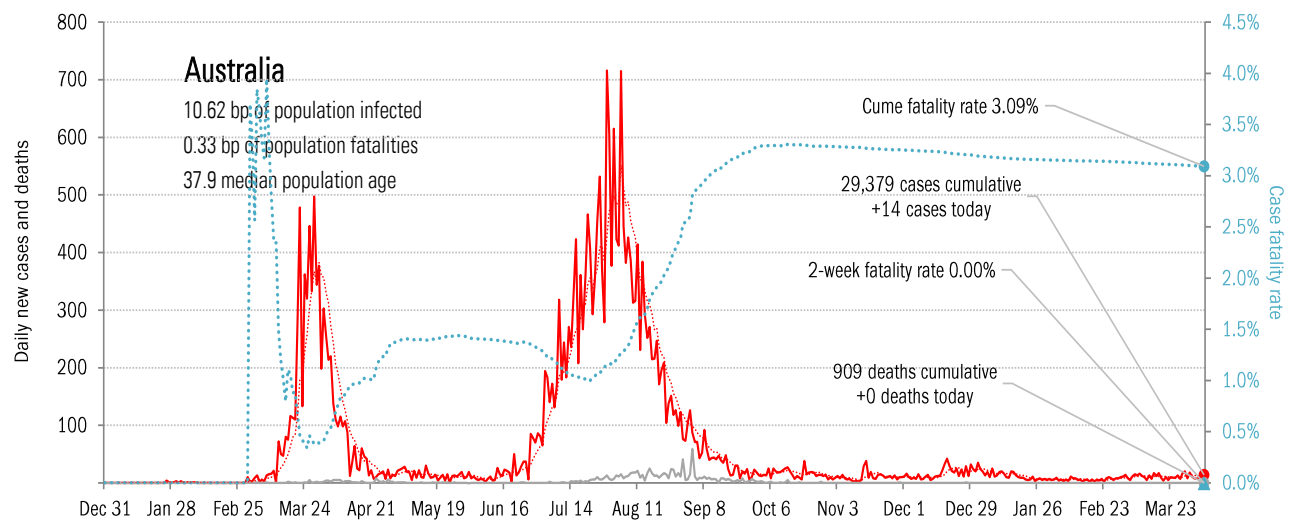
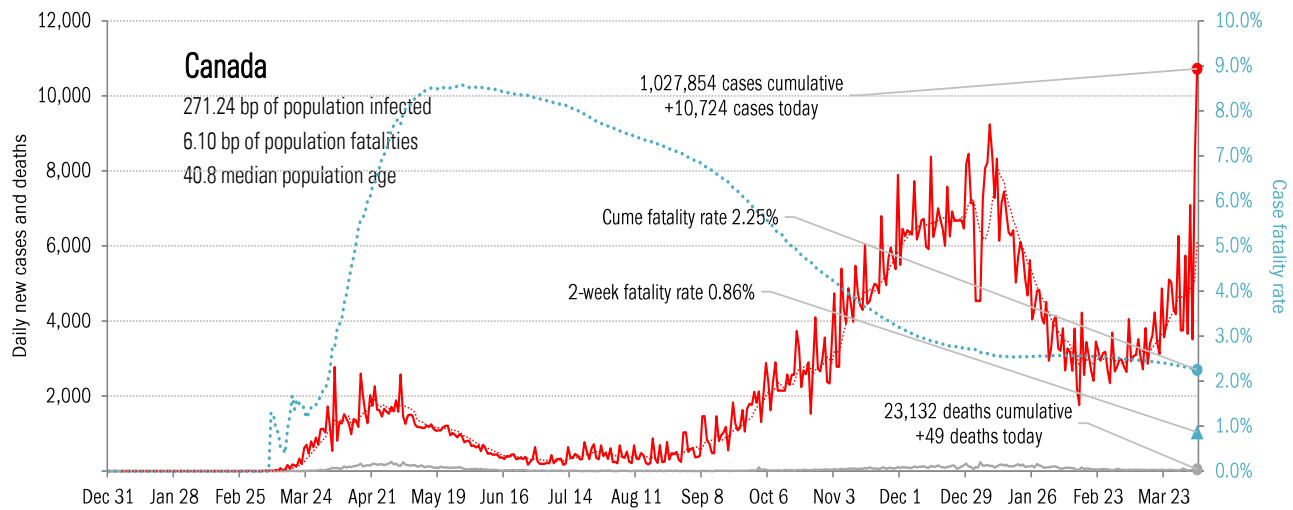
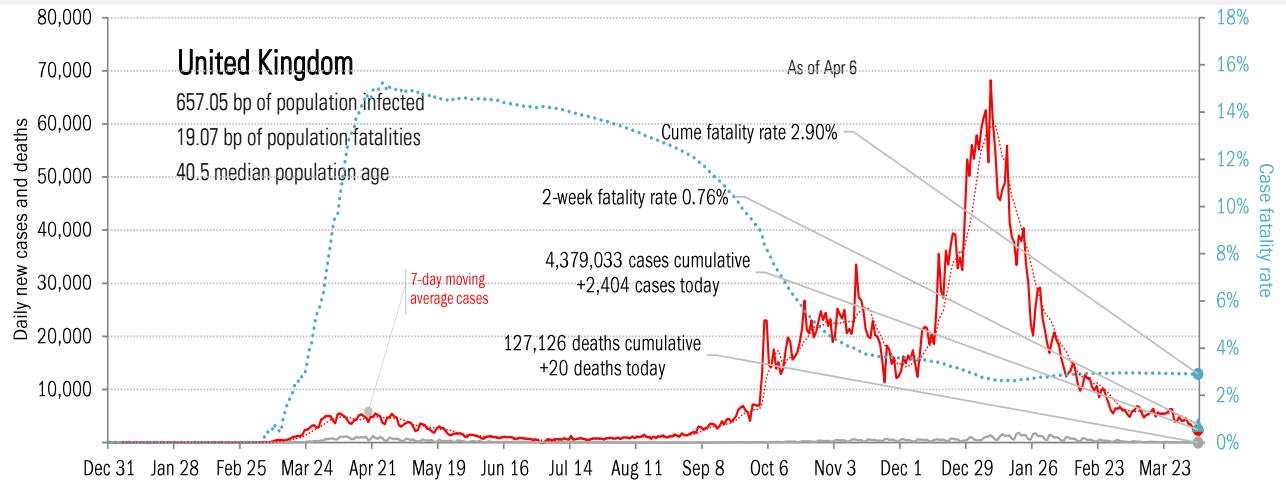
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



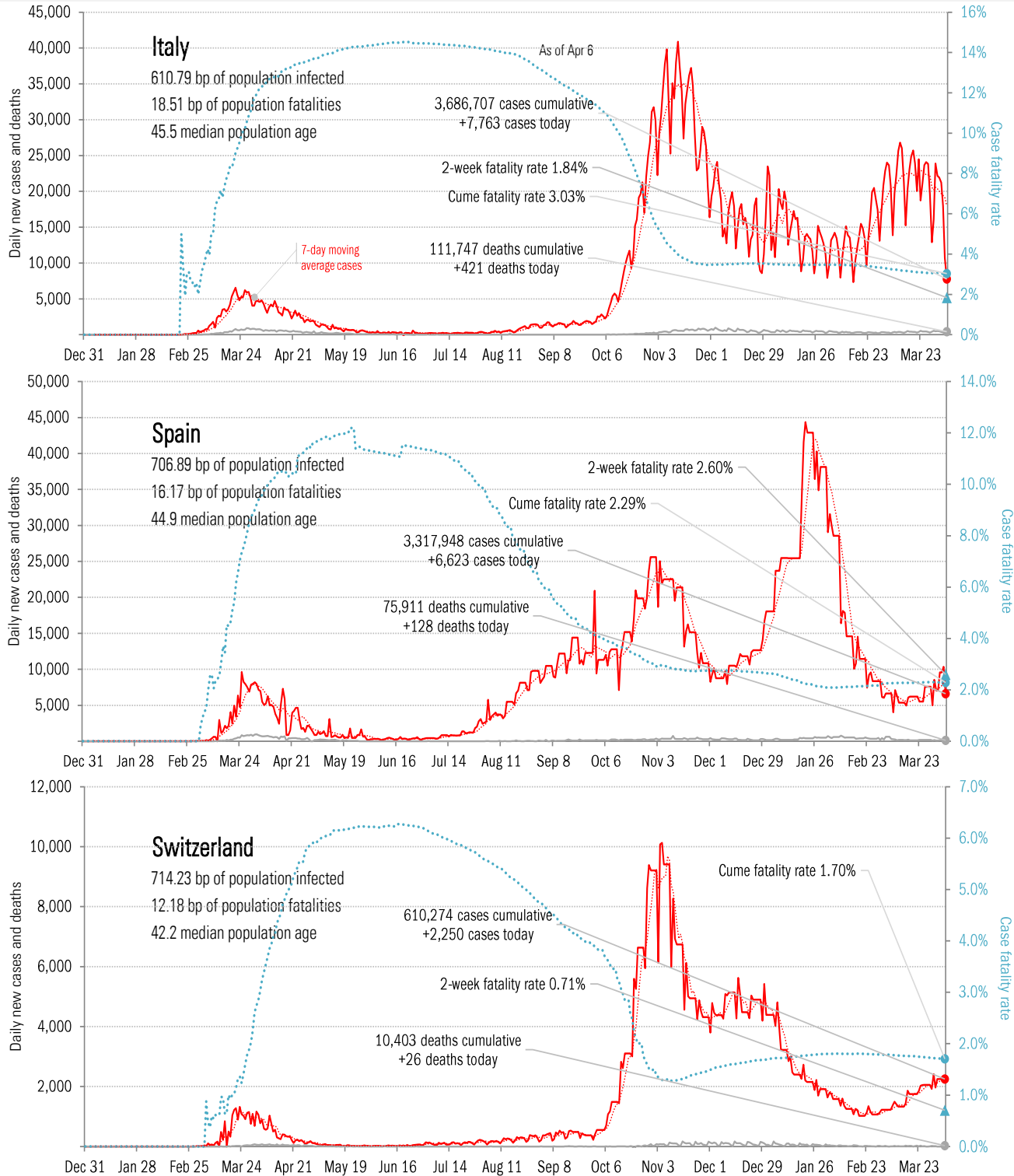
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



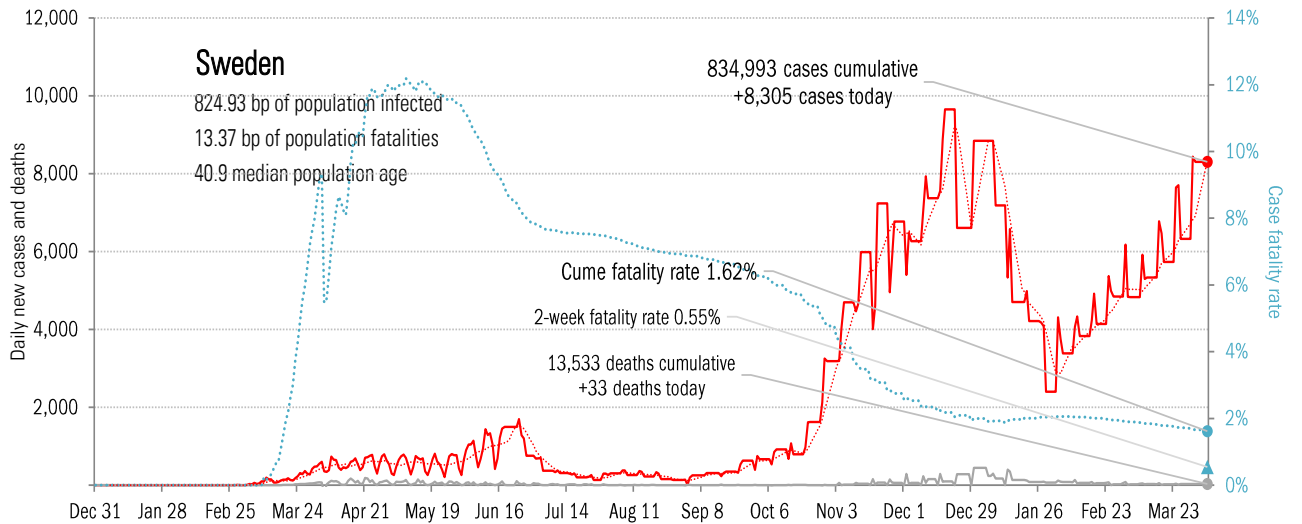
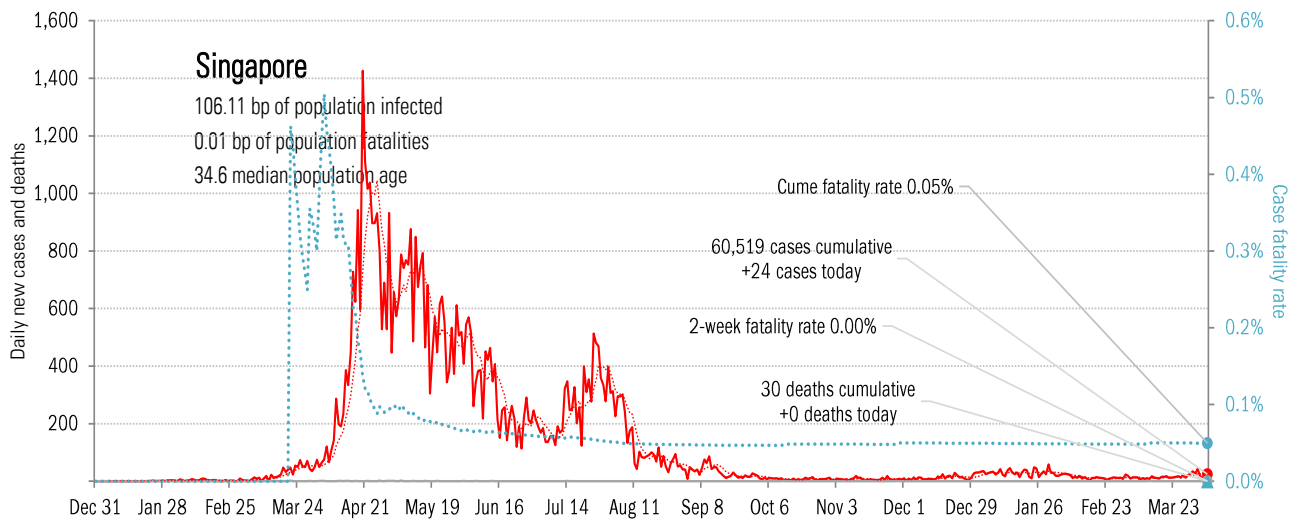
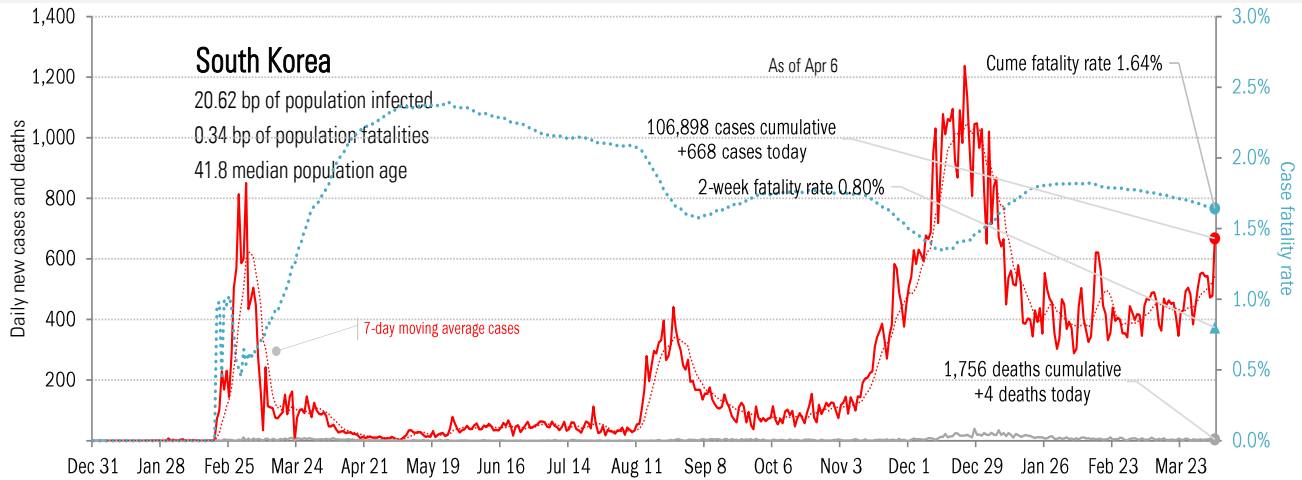
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



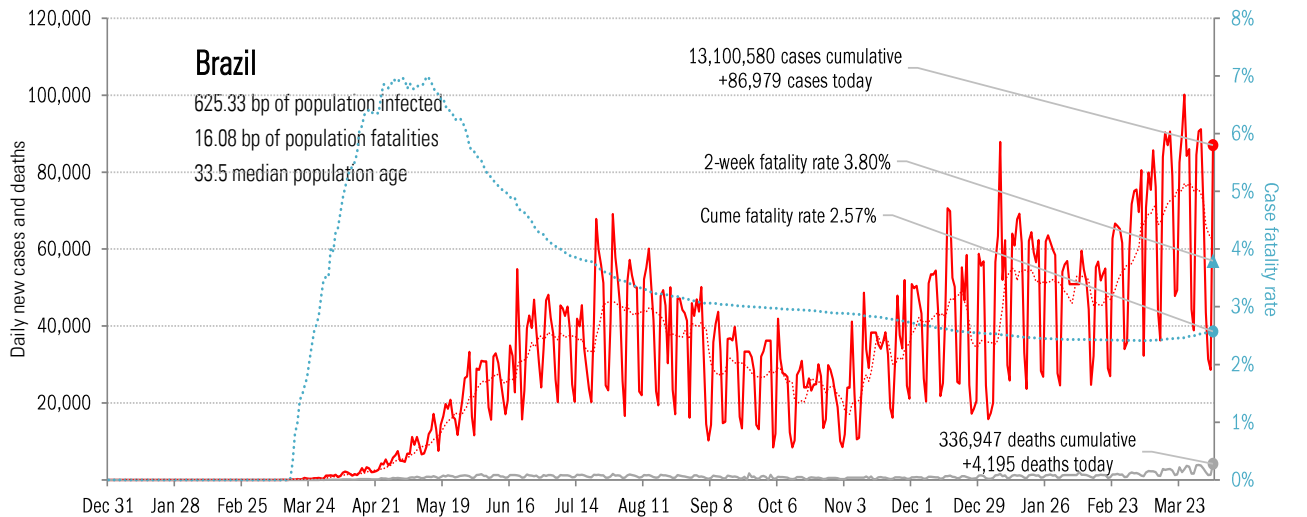
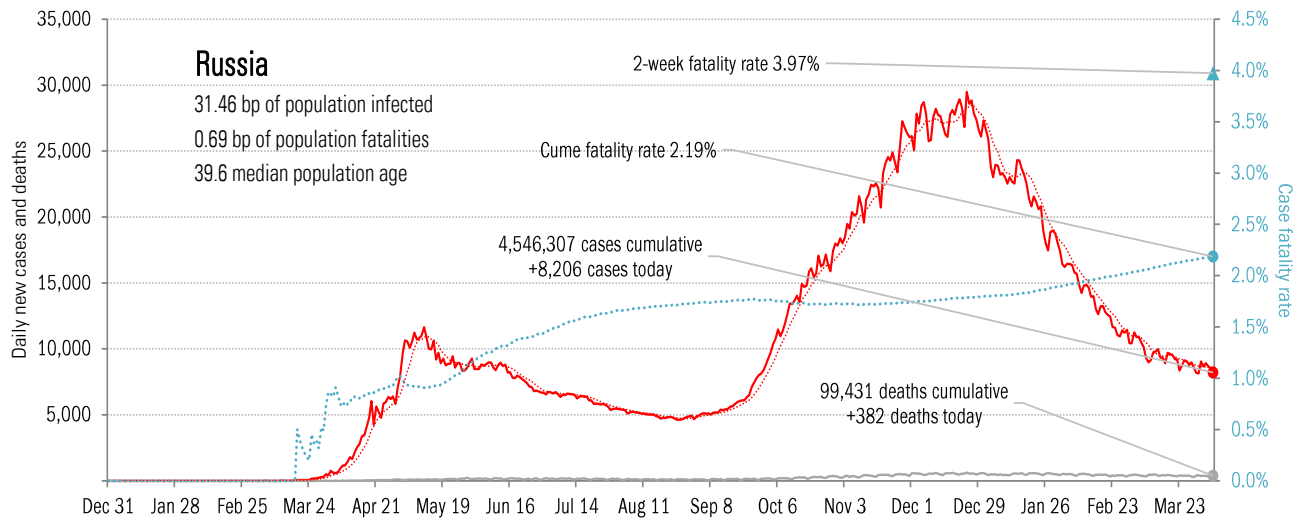
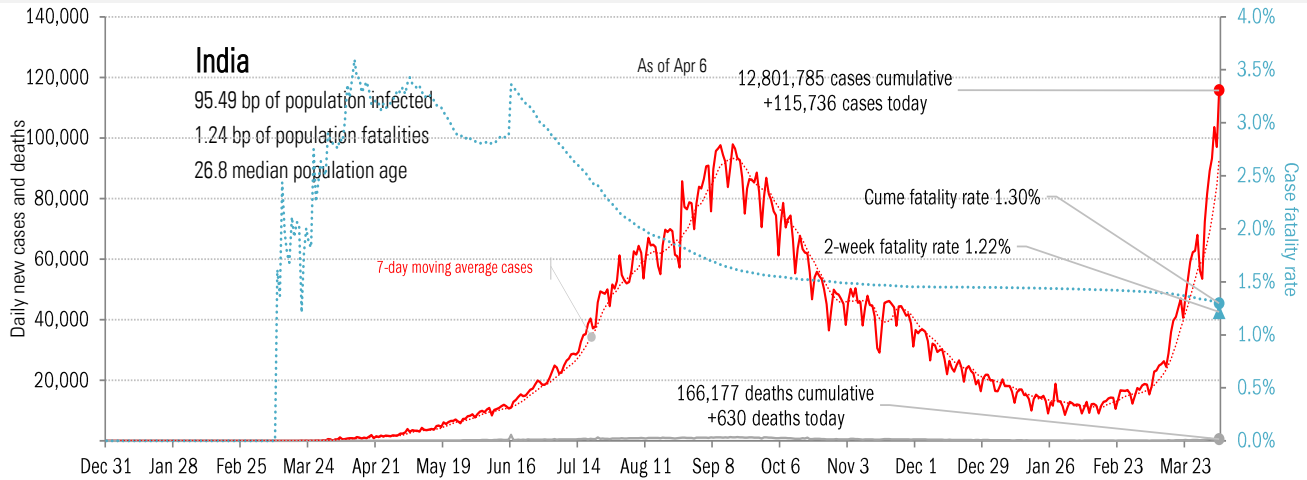
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



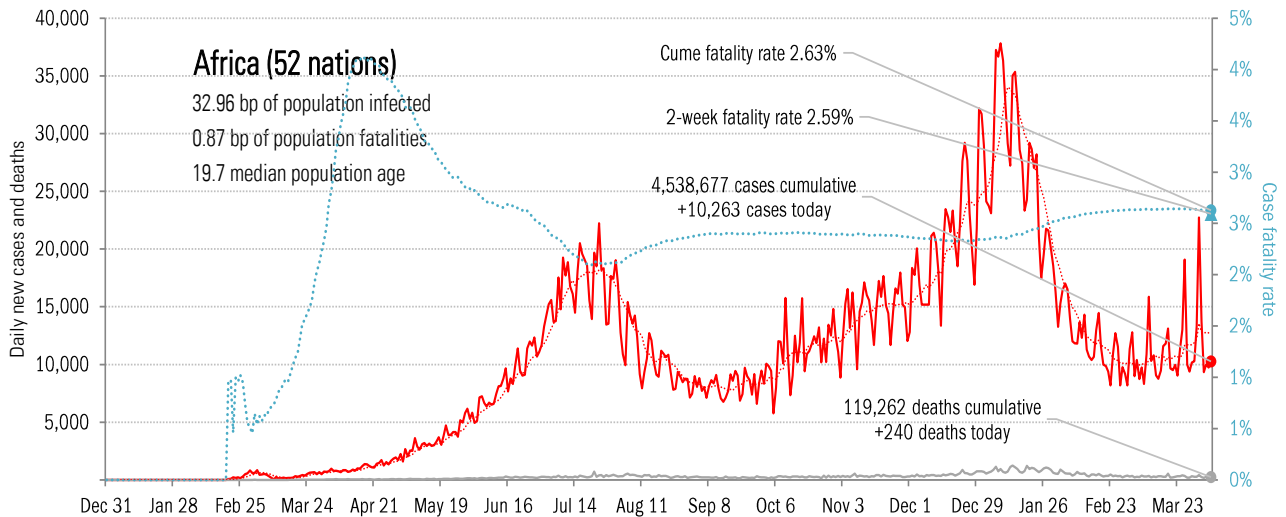
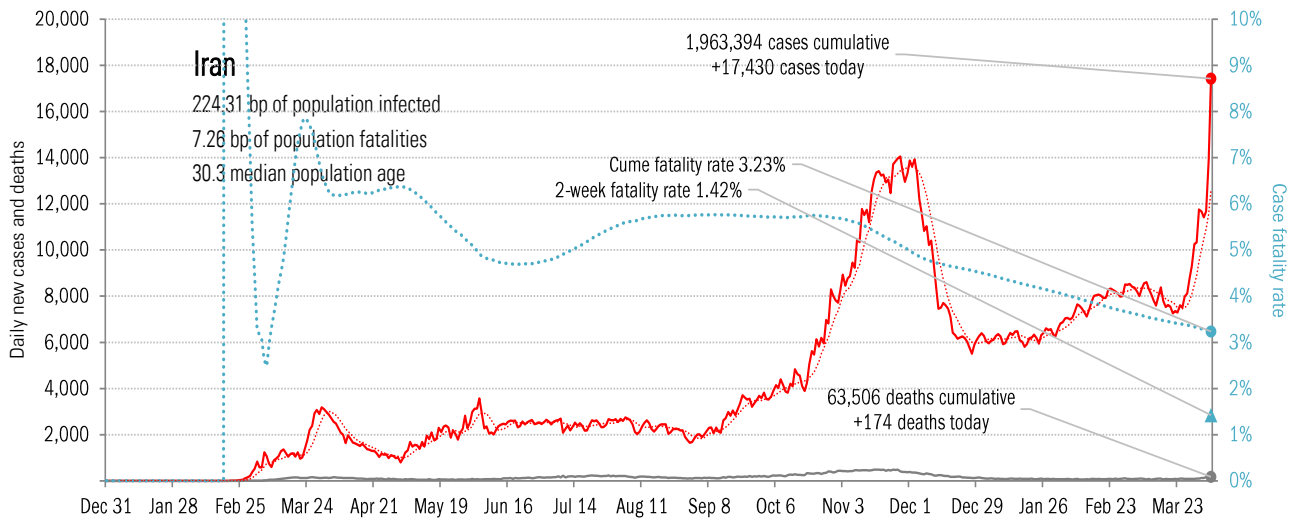
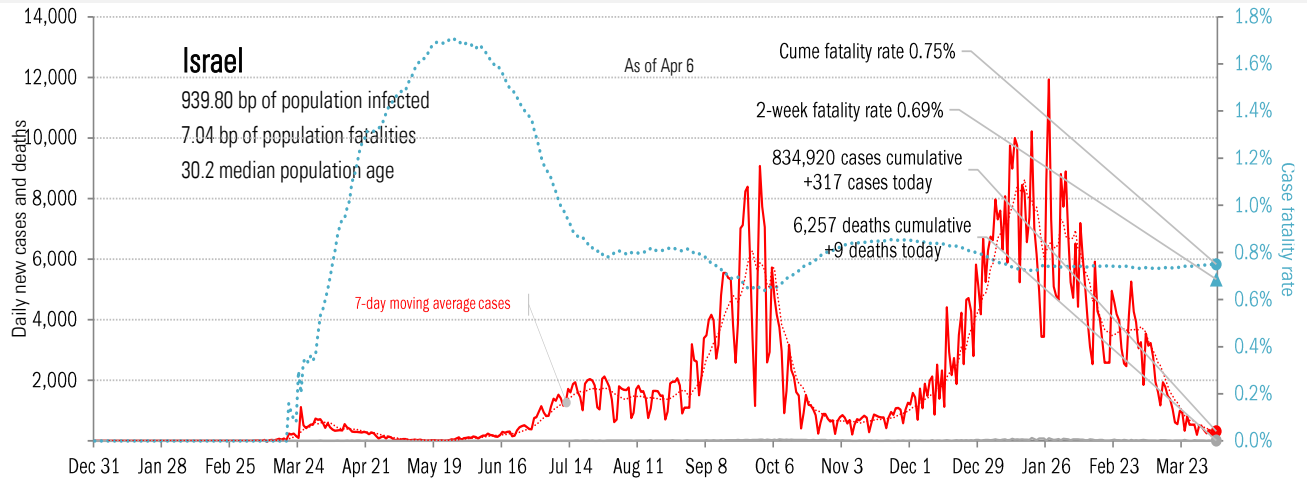
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



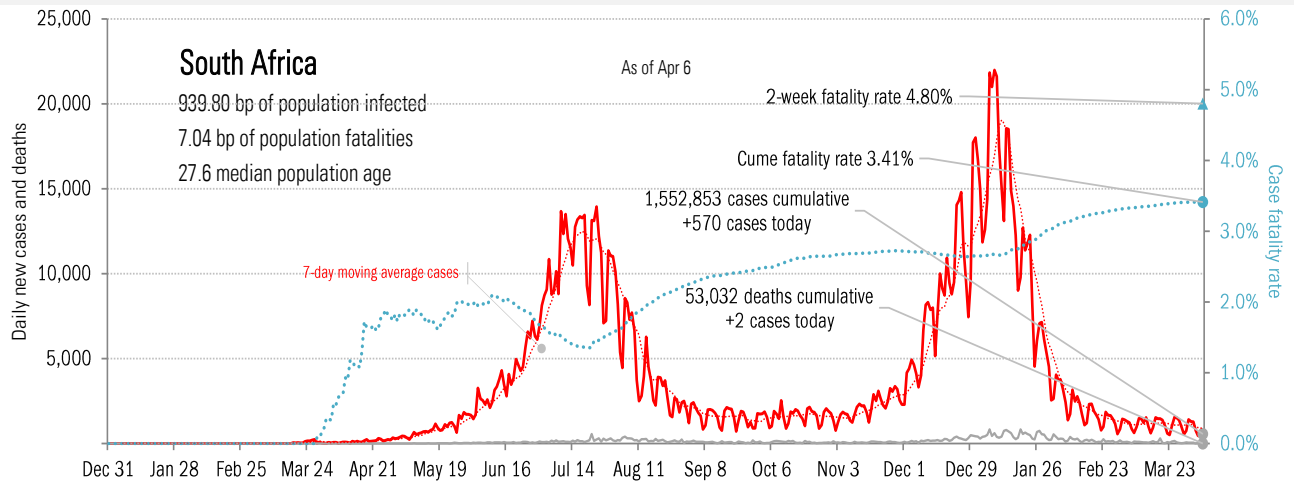
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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