

Data Insights: Covid-2019 Monitor

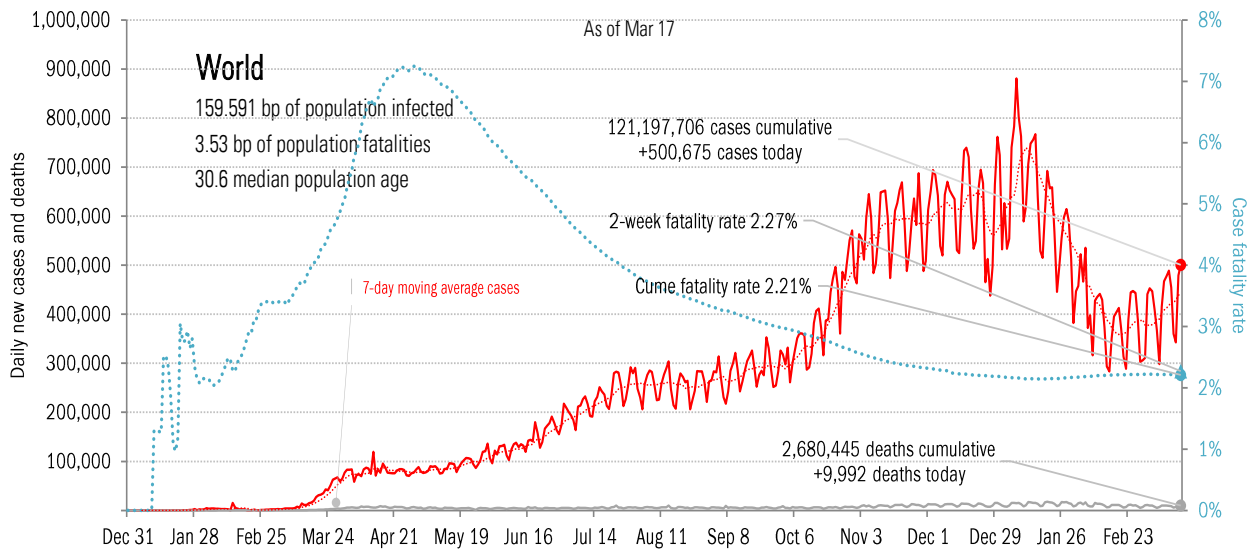
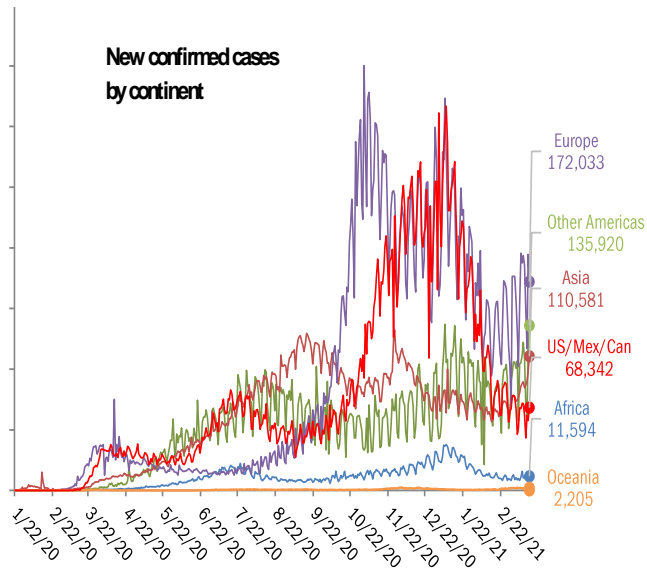
Thursday, March 18, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
Brazil	+90,303	Brazil	+2,648
United States	+58,480	United States	+1,173
India	+35,871	Mexico	+789
Poland	+25,053	Poland	+454
Italy	+23,040	Italy	+431
Turkey	+18,912	Russia	+420
Peru	+16,624	Peru	+346
Czechia	+14,029	Ukraine	+296
Ukraine	+11,921	Czechia	+245
Jordan	+9,535	Spain	+228
+303,768		+7,030	
World	+500,675	World	+9,992
Top ten	61%	Top ten	70%

New confirmed cases by continent



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

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The US scorecard

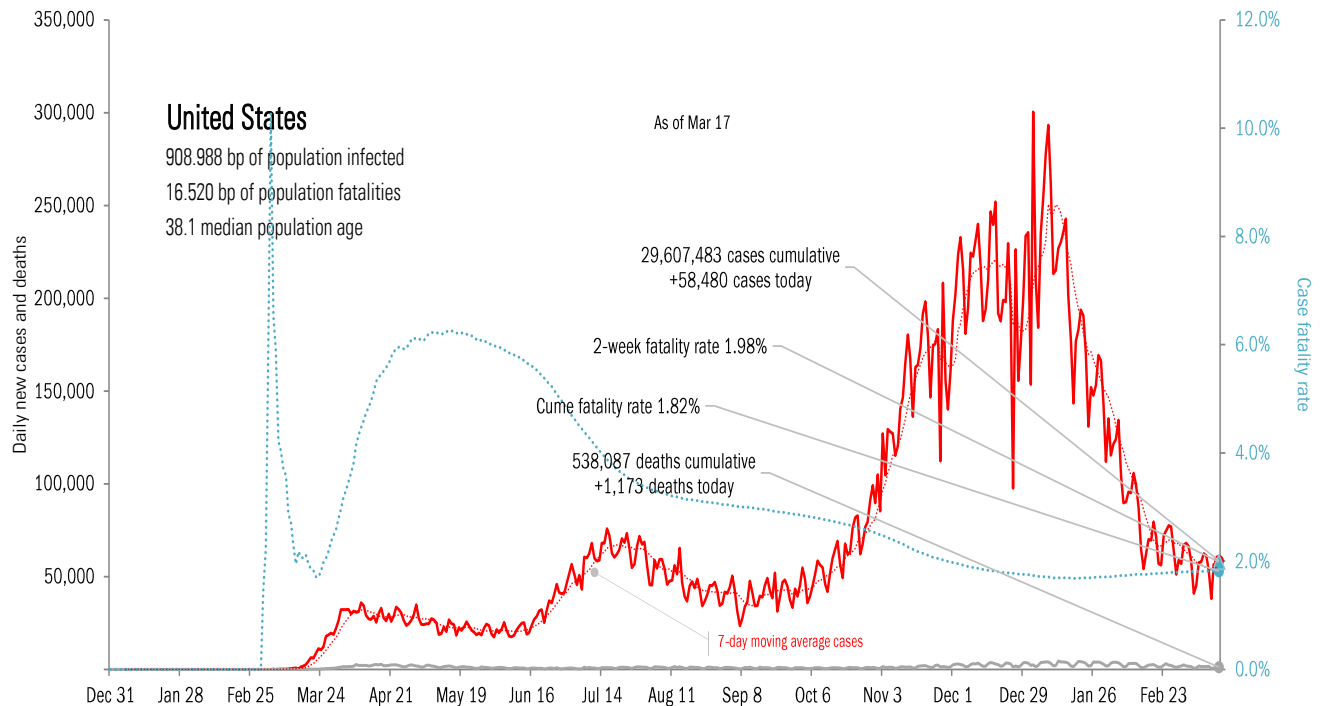
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
NY	+6,582		CA	+191		GA	+78		CA	3,631,320		CA	56,987		TX	219,466		R	94%	NY	19%
FL	+4,599		TX	+176		NY	+61		TX	2,742,274		NY	49,171		CA	217,410		MA	81%	GA	18%
TX	+4,511		NJ	+79		CH	+49		FL	1,989,024		TX	46,827		FL	144,600		MD	80%	TX	18%
NJ	+4,329		GA	+72		MD	+26		NY	1,761,775		FL	32,504		NY	105,962		CT	79%	MD	18%
MI	+3,785		NY	+61		PA	+26		IL	1,213,668		PA	24,698		GA	91,343		MO	78%	MS	14%
CA	+3,149		FL	+55		MN	+23		GA	1,038,550		NJ	24,045		CH	72,996		SC	78%	CA	14%
PA	+3,072		SC	+52		NJ	+19		CH	993,681		IL	23,255		PA	69,826		PA	78%	DC	13%
GA	+2,044		VA	+50		TN	+19		PA	976,442		GA	18,359		KY	66,137		GA	78%	FL	13%
NC	+1,999		MA	+44		MI	+18		NC	889,310		CH	17,991		IL	65,862		FL	78%	RI	13%
TN	+1,826		PA	+38		WI	+11		NJ	848,727		MI	16,809		AZ	57,125		DC	78%	MA	13%
+35,896			+818			+330			16,084,771			310,646			1,110,727						
All states	+58,480			+1,173			+101		All states	29,607,483			538,087			1,975,822		All states	70%		67%
Top ten	61%			70%			327%		Top ten	54%			58%			56%		Median	71%		9%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-1,438	CH	-121	TX	-63	PA	+75 bp
LA	-547	CK	-87	IN	-30	CA	+49 bp
CT	-480	PA	-56	NM	-27	MA	+45 bp
CH	-425	FL	-46	KY	-21	CK	+40 bp
IL	-328	NY	-33	FL	-20	NE	+39 bp

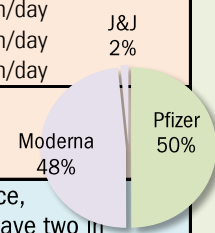


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

US overall	Over last day	Share pop full immunization
154.87 million doses distributed	+4.97 million/day	United States 12.0%
118.16 million doses administered	+2.38 million/day	United Kingdom 2.6%
76.59 million persons partially immunized	+1.58 million/day	France 3.3%
41.81 million persons fully immunized	+0.98 million/day	Spain 3.9%
7.59 million shots long-term care residents/staff	+0.02 million/day	Germany 3.6%

76.3% of distributed doses administered
29.0% of US pop partial **15.8% full immunity**
100% of LTC partial **61.5% full immunity**



Country	Share pop full immunization
United States	12.0%
United Kingdom	2.6%
France	3.3%
Spain	3.9%
Germany	3.6%
Italy	3.7%
Australia	0.4%
Israel	50.9%
Canada	1.6%
Japan	0.0%
Africa	0.2%
India	0.5%
Brazil	1.5%

At today's dosing pace,
 every American will have two in
226 days
 by Oct 28, 2021
 US will achieve herd immunity in
91 days
 by Jun 15, 2021

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

AK
68.3%
28.8%
18.6%

ME
47.4%
26.4%
14.4%

WI
43.7%
23.6%
13.4%

VT
51.1%
25.4%
13.5%

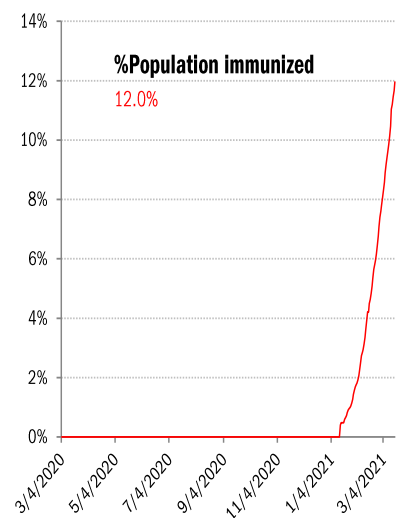
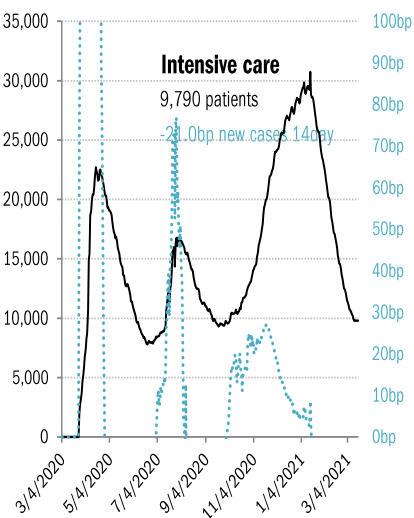
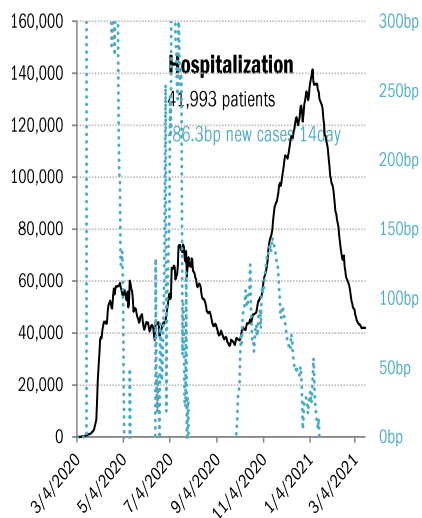
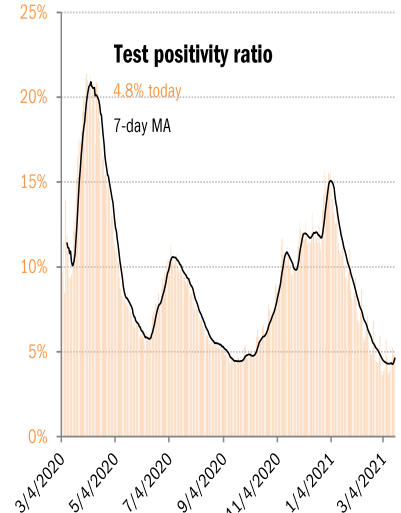
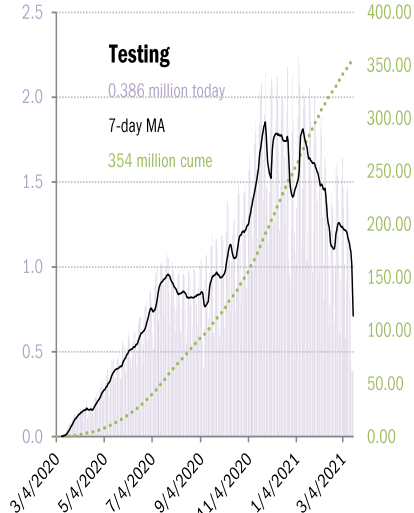
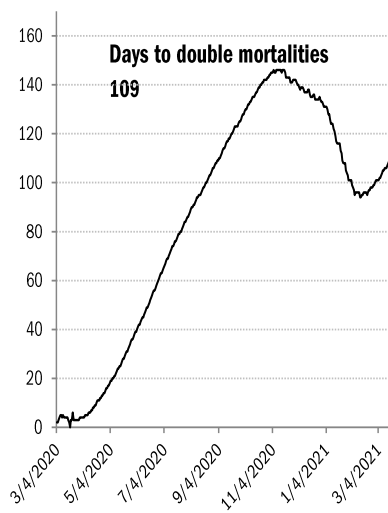
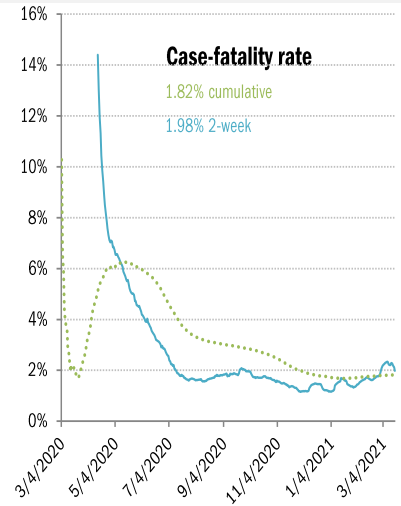
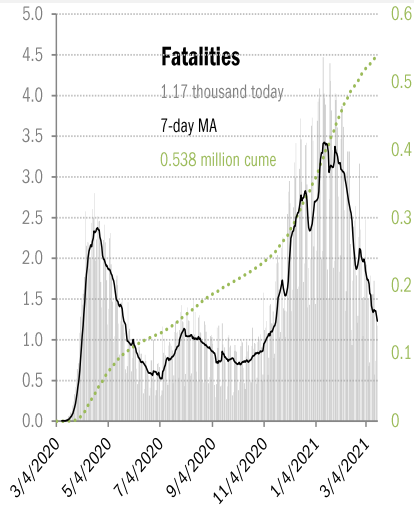
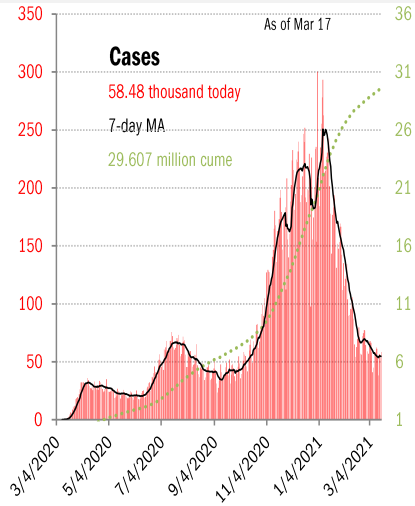
WA	ID	MT	ND	MN	IL	MI	NY	MA	OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI	CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	AZ	NM	KS	AR	TN	NC	SC	DC	OK	LA	MS	AL	GA	TX	FL	PR	HI
45.0%	40.7%	48.4%	48.2%	44.2%	44.7%	43.6%	45.9%	45.8%	43.9%	42.3%	48.1%	53.0%	43.7%	41.9%	44.3%	45.8%	43.7%	49.8%	46.8%	44.6%	39.0%	44.1%	45.1%	42.7%	43.7%	49.1%	42.7%	44.2%	47.4%	45.3%	54.0%	47.1%	44.3%	41.3%	43.8%	40.6%	58.9%	53.9%	44.4%	44.2%	42.4%	40.4%	41.7%	46.5%	47.2%	51.9%
22.9%	19.5%	24.1%	26.3%	24.5%	23.0%	21.6%	23.1%	26.2%	21.5%	21.2%	22.5%	28.1%	24.0%	20.0%	21.5%	23.5%	25.3%	27.4%	27.0%	22.4%	22.4%	19.9%	21.9%	23.7%	20.1%	24.0%	23.8%	23.1%	23.1%	22.4%	23.1%	30.1%	21.9%	20.0%	19.0%	22.3%	20.7%	18.9%	24.7%	20.7%	20.3%	18.2%	16.1%	19.8%	21.1%	15.6%
13.0%	12.1%	14.4%	15.1%	13.5%	12.6%	12.2%	11.4%	13.7%	12.3%	12.0%	14.1%	16.0%	13.6%	13.0%	12.6%	12.0%	13.1%	14.8%	11.7%	11.0%	8.8%	13.0%	13.7%	10.8%	12.5%	14.7%	13.1%	12.9%	12.8%	13.1%	17.6%	11.7%	10.6%	10.1%	12.6%	11.6%	9.7%	13.5%	12.1%	11.3%	10.7%	9.9%	10.1%	11.9%	9.2%	15.2%

As of Mar 17

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

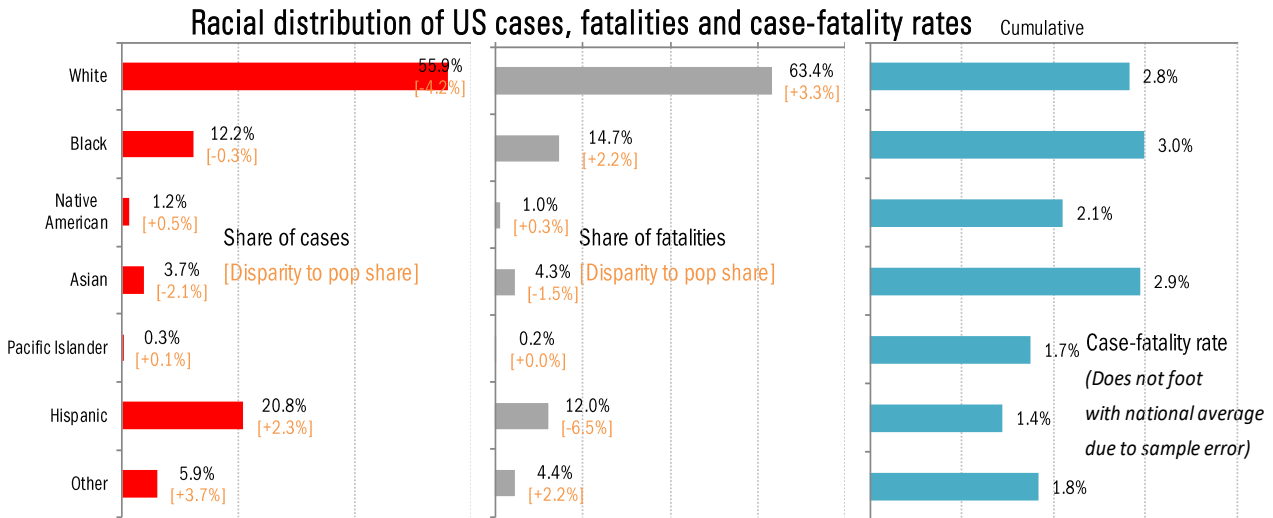
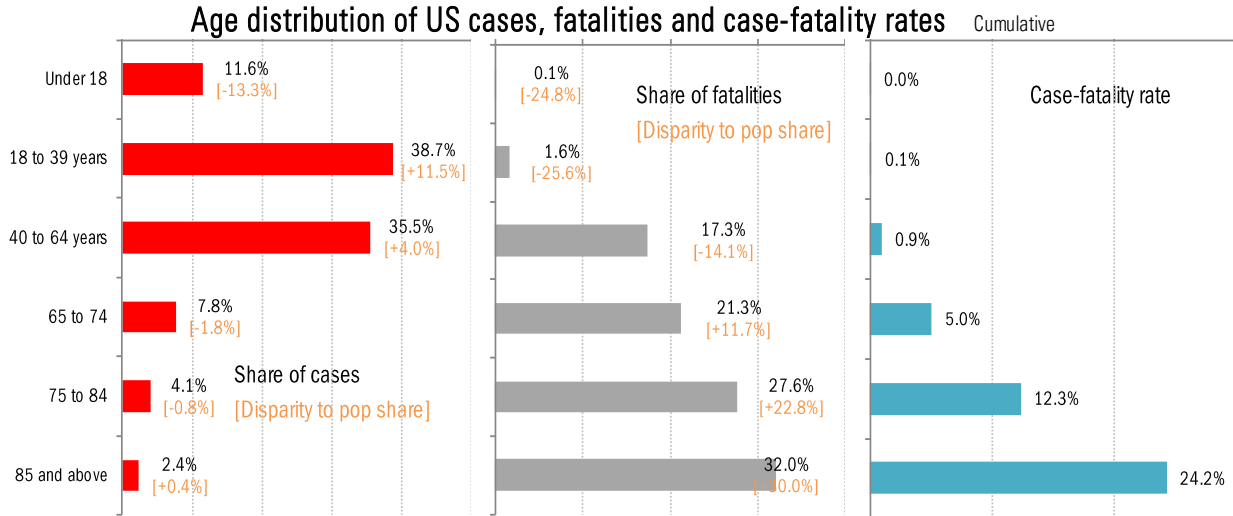
US deep-dive

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

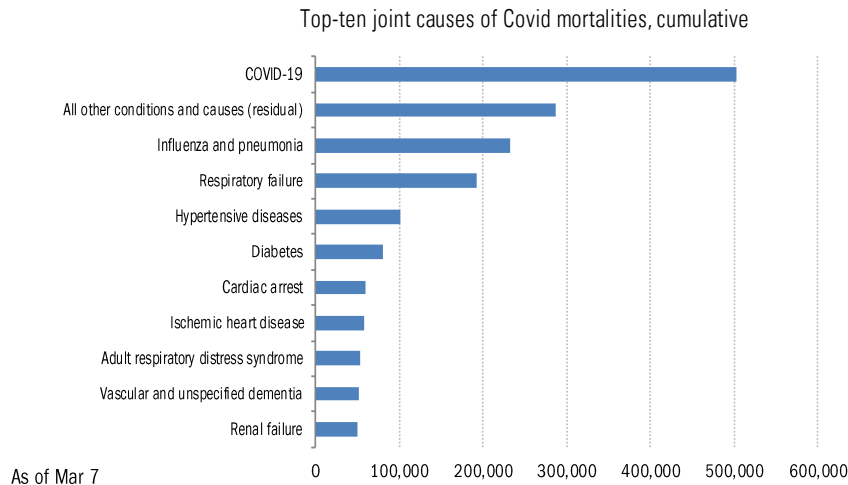


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

[Reinfection Rates among Patients who Previously Tested Positive for COVID-19: a Retrospective Cohort Study](#)

Megan M Sheehan et al.
Clinical Infectious Diseases
March 15, 2021

[Study: CDC Manipulated COVID-19 Deaths, Violated Federal Laws](#)

Bonner R Cohen
Health Care News
March 11, 2021

[COVID-19 Data Collection, Comorbidity & Federal Law: A Historical Retrospective](#)

Henry Ealy et al.
Science, Public Health Policy, and The Law
October 12, 2020

[Biden administration defends curbs on state tax cuts in Covid bill as Ohio sues](#)

Brian Faler
Politico
March 17, 2021

[Science and Society Are Failing Children in the COVID Era](#)

Nason Maani, Sandro Galea
Scientific American
March 3, 2021

[No Screaming On California Theme Park Rides, Guidelines Say](#)

CBS Los Angeles
March 17, 2021

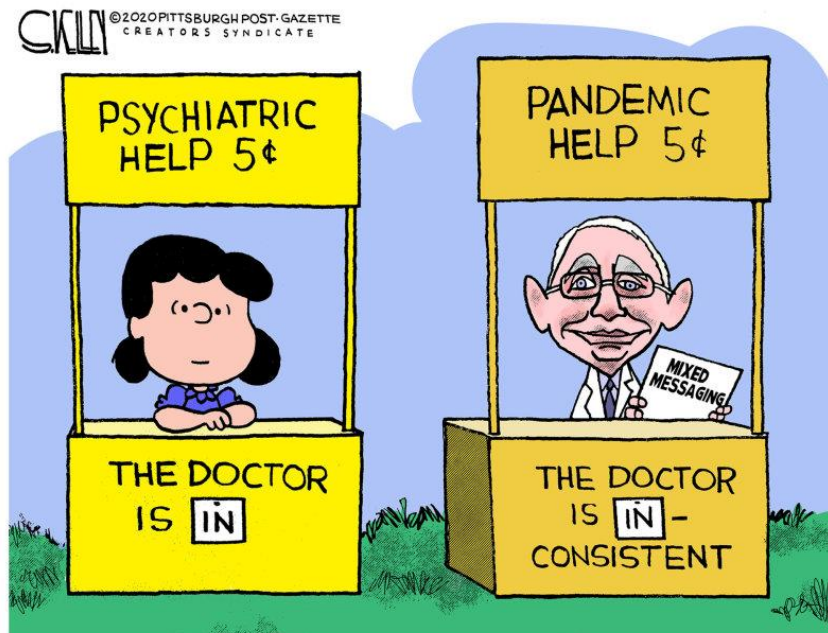
[At Long Last, Wall Street Sees Path to Return to the Office](#)

Jennifer Surane
Bloomberg
March 17, 2021

[New Jersey Gov. Phil Murphy's Office Was Warned On Nursing Home Policy: 'Patients Will Die'](#)

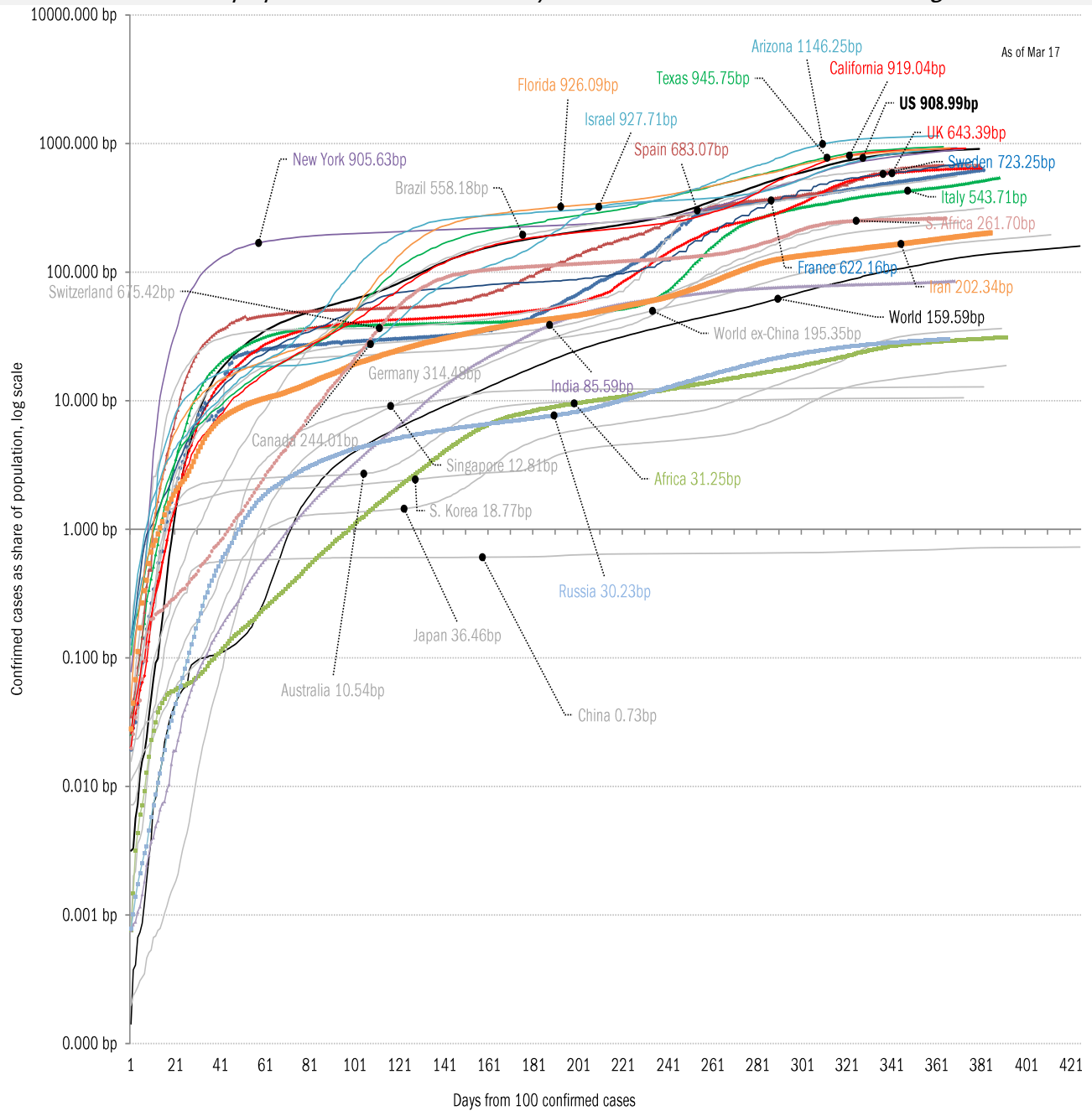
Tristan Justice
The Federalist
March 15, 2021

Meme of day



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

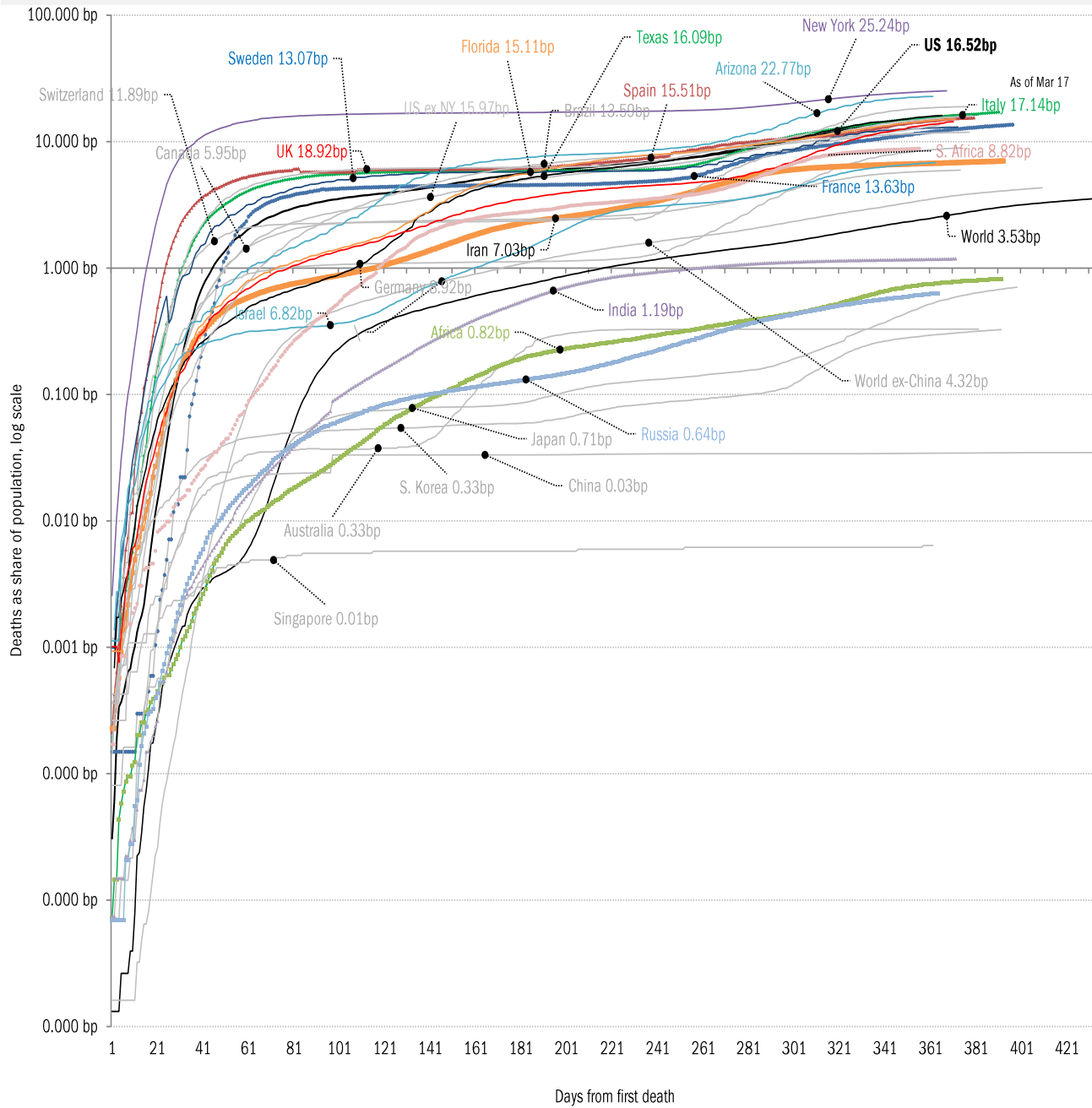
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

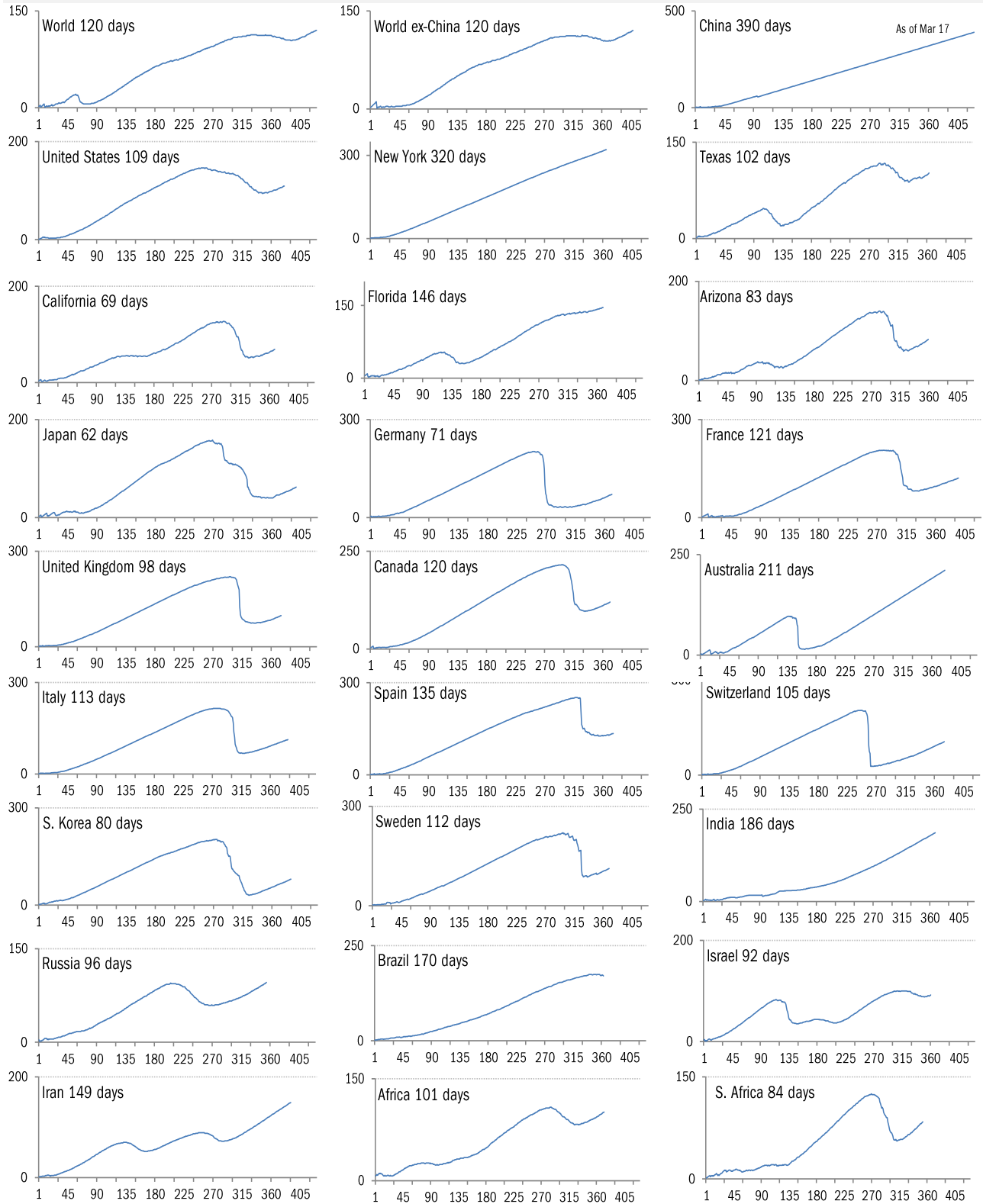


Source: [Johns Hopkins](#), TrendMacro calculations

"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

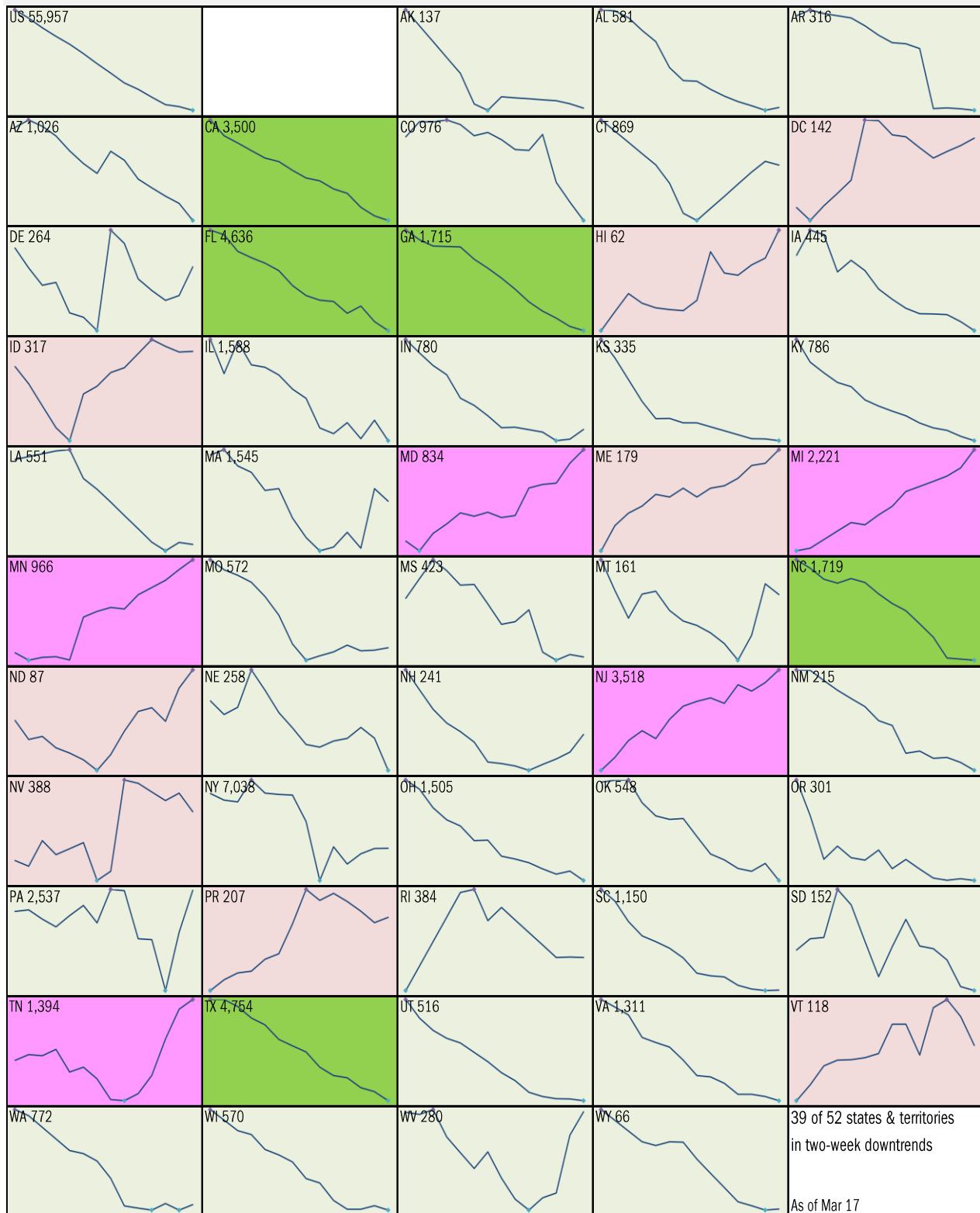


Source: [Johns Hopkins](#), TrendMacro calculations

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

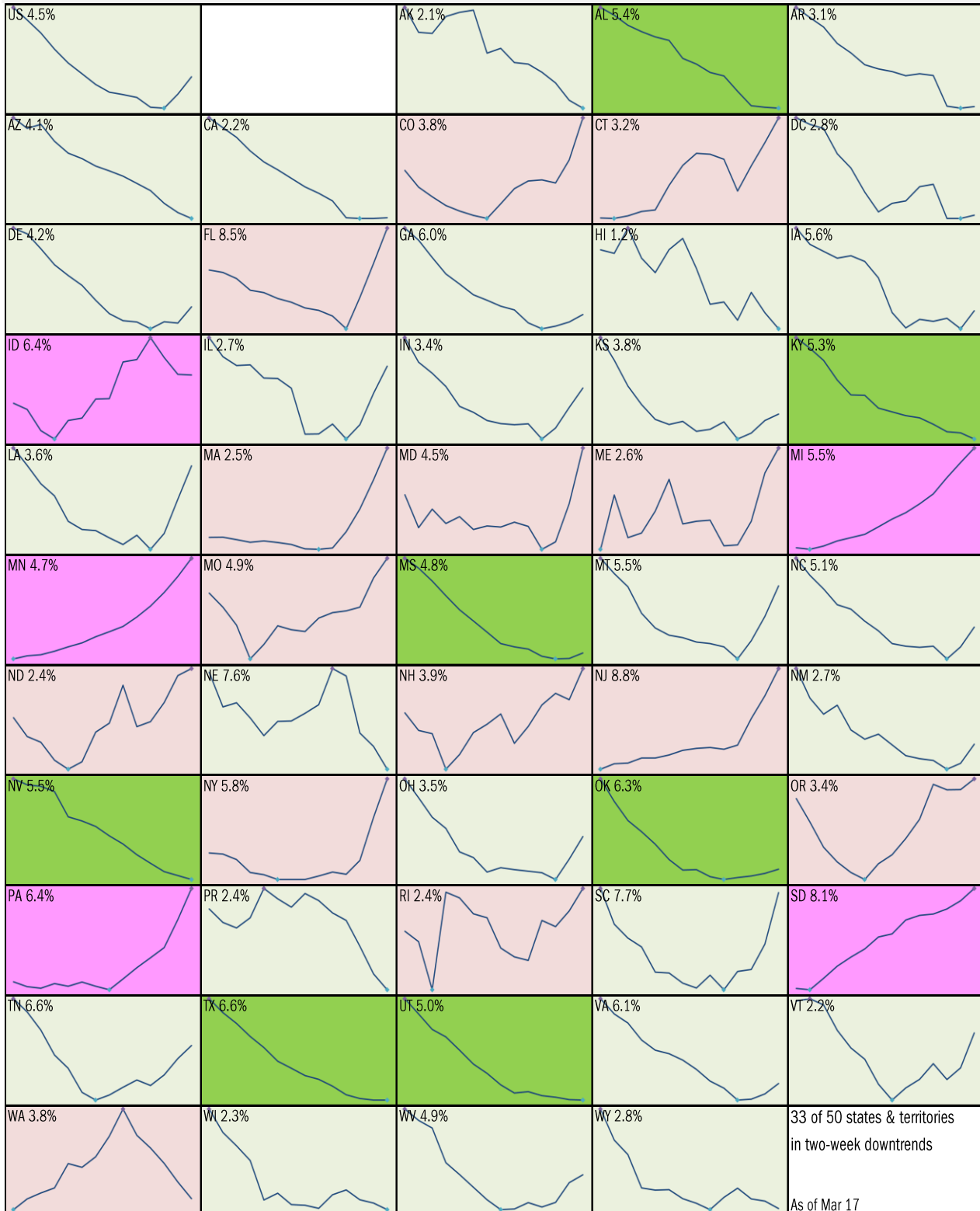


Source: [Johns Hopkins](#), TrendMacro calculations

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

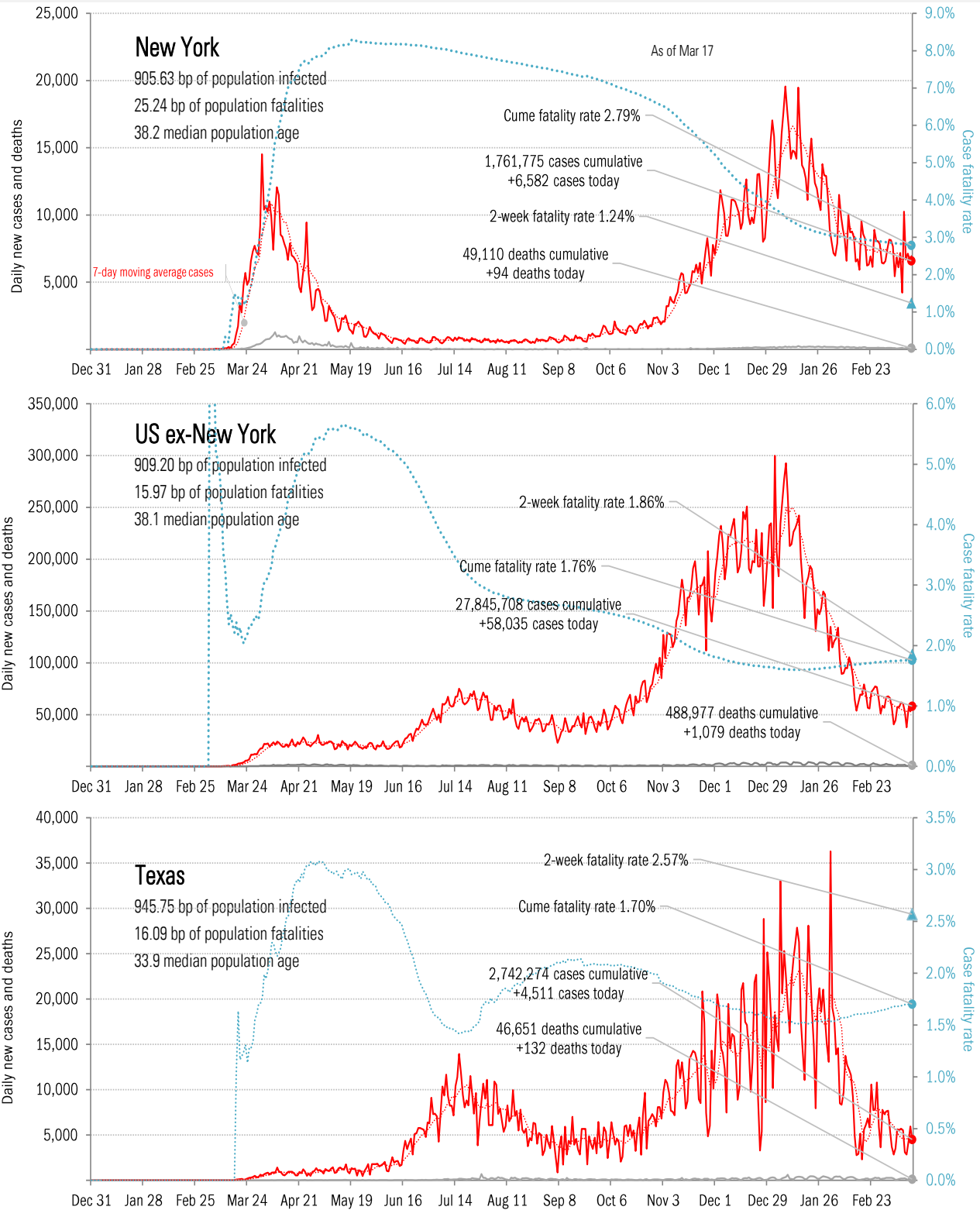
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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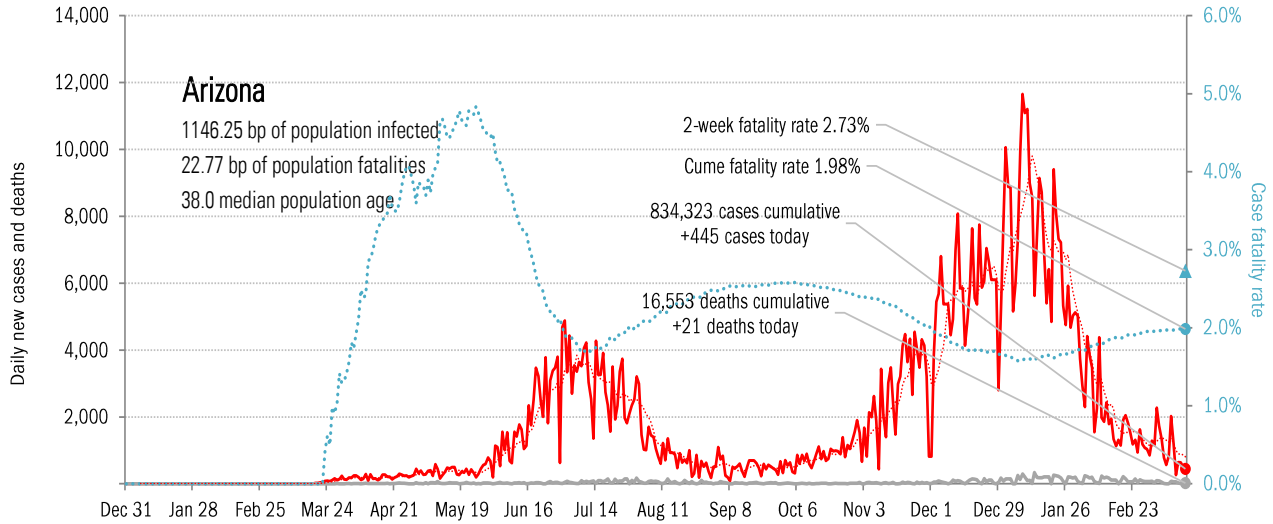
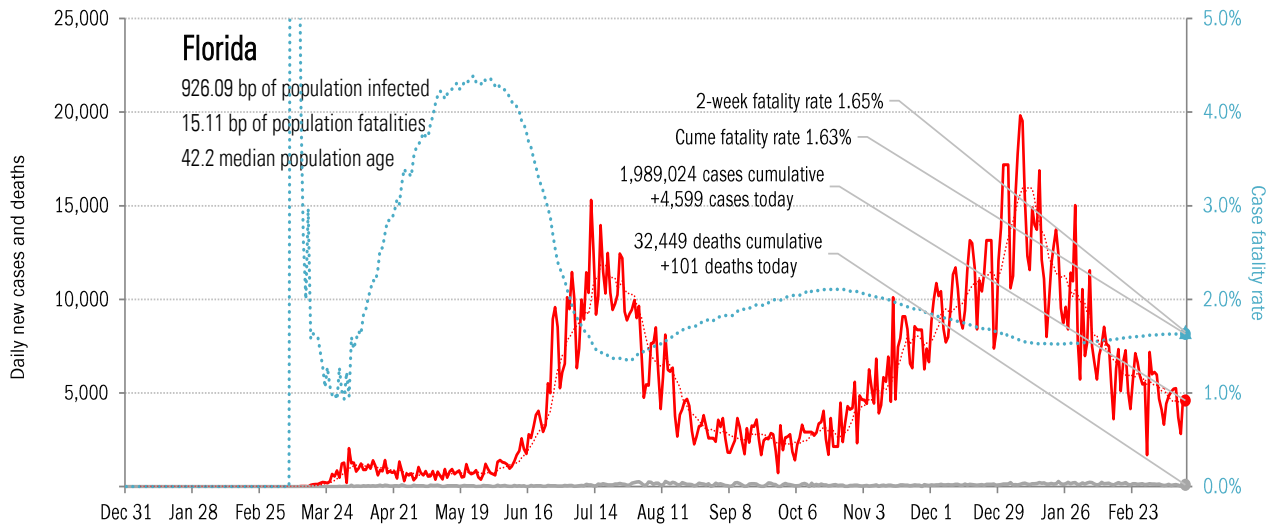
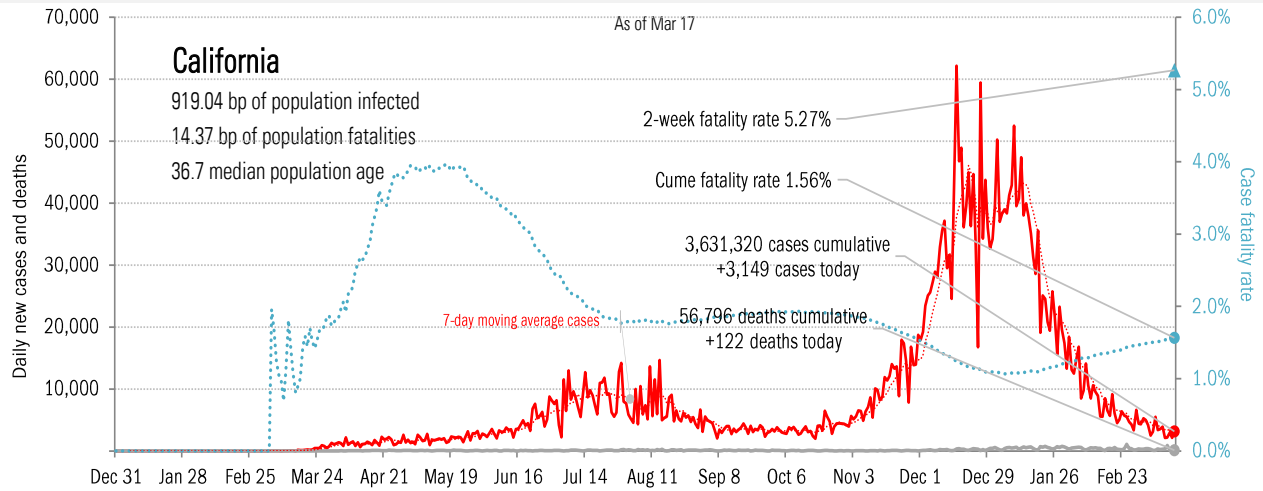
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



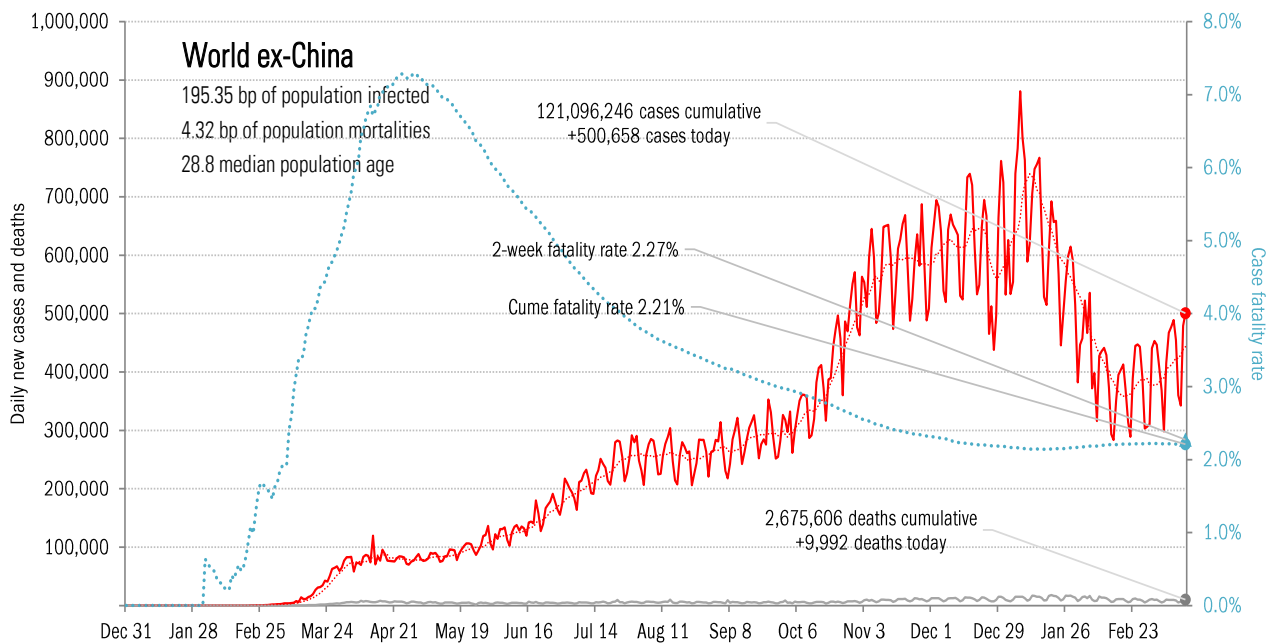
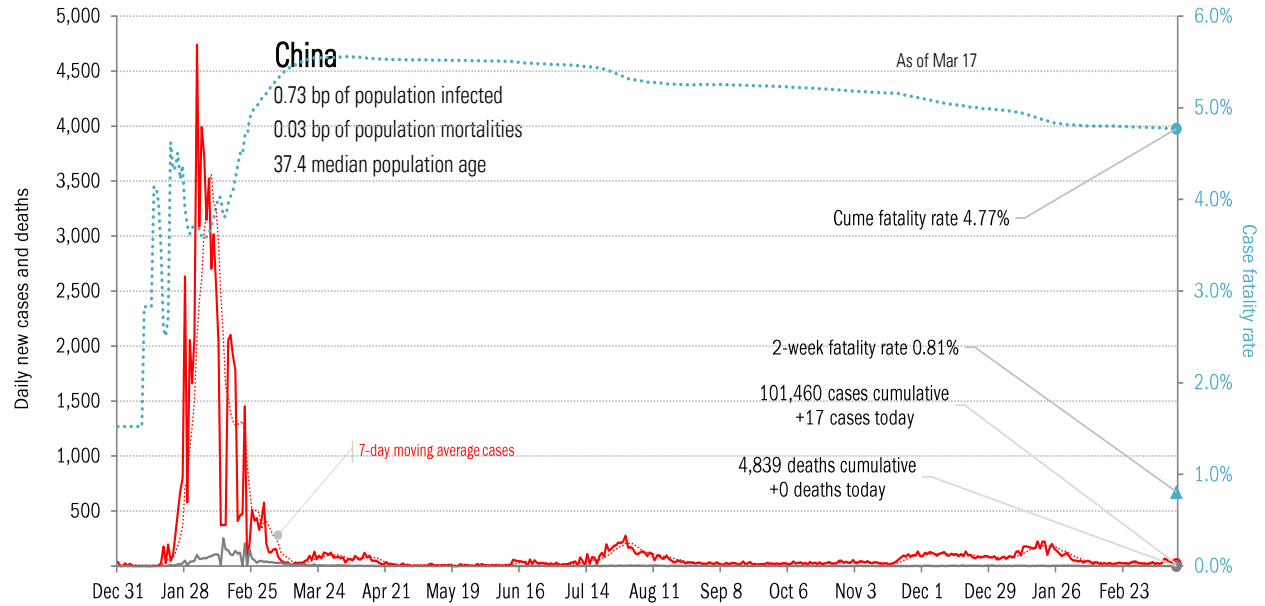
Source: [Johns Hopkins](#), TrendMacro calculations

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



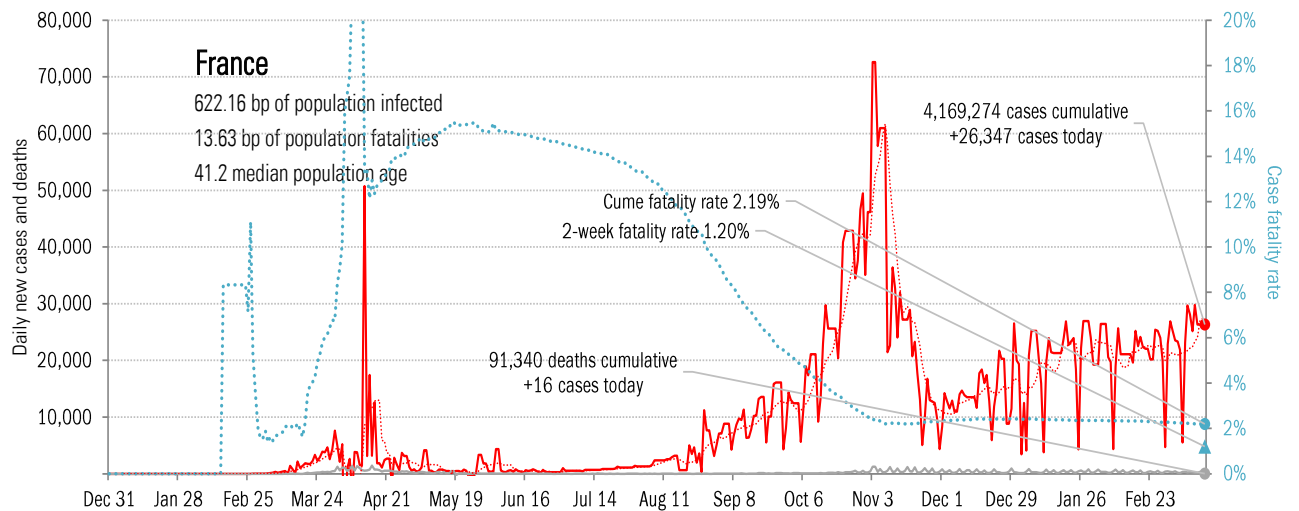
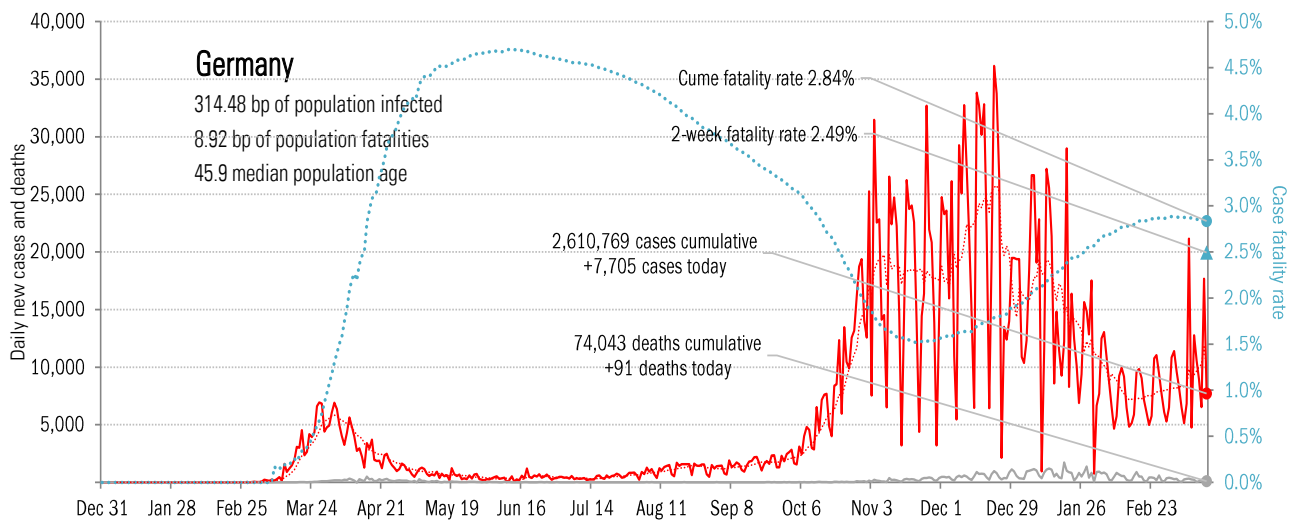
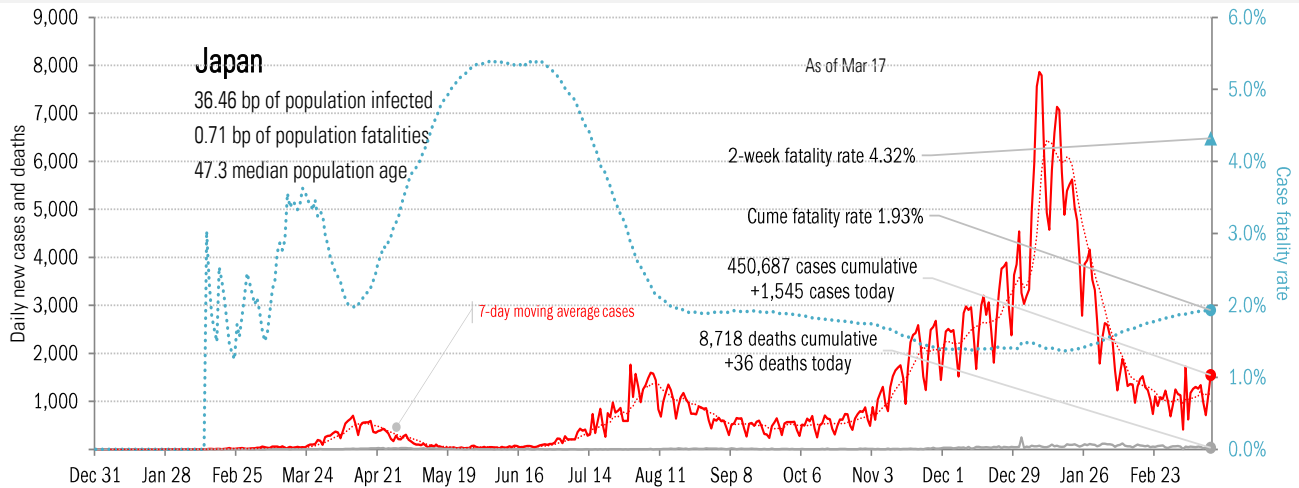
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



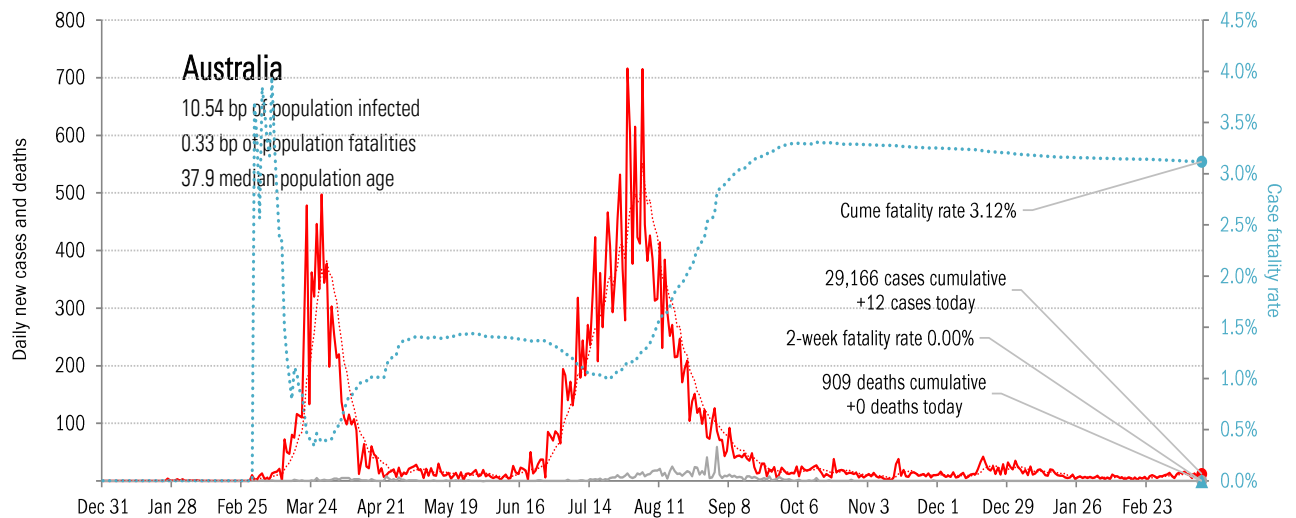
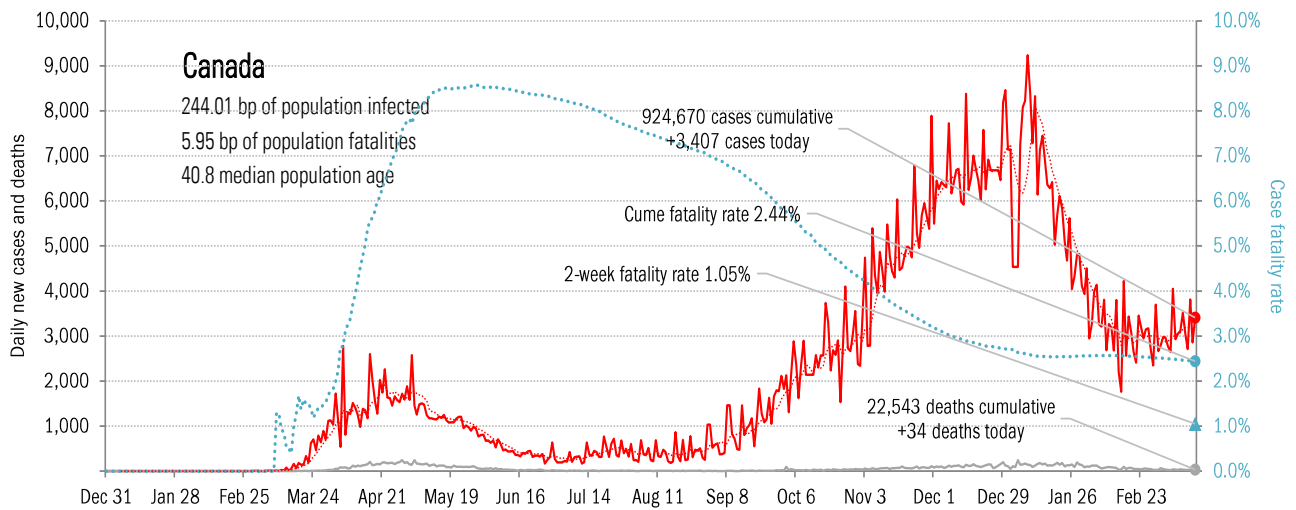
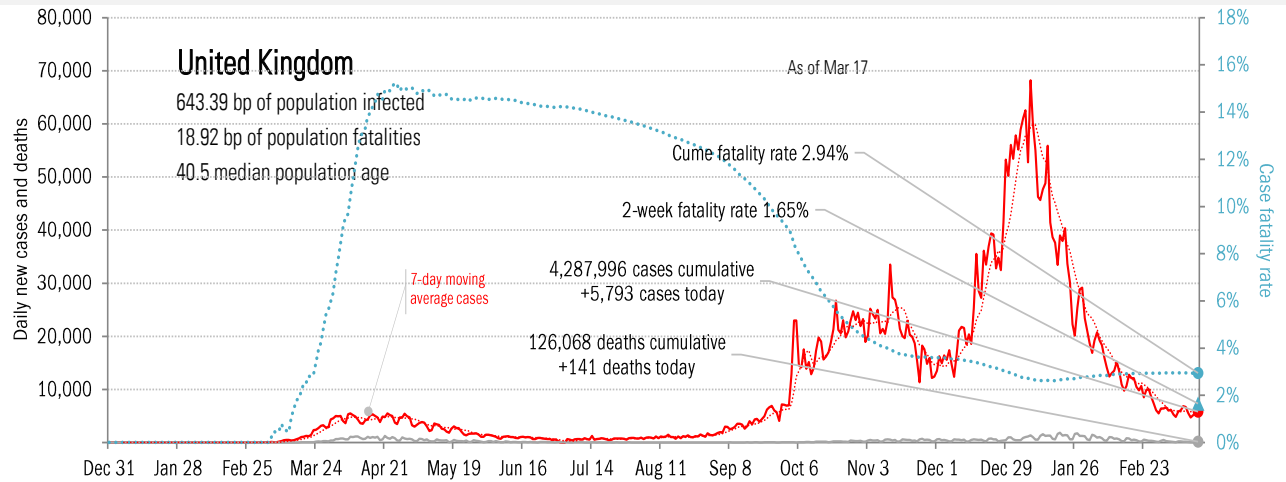
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



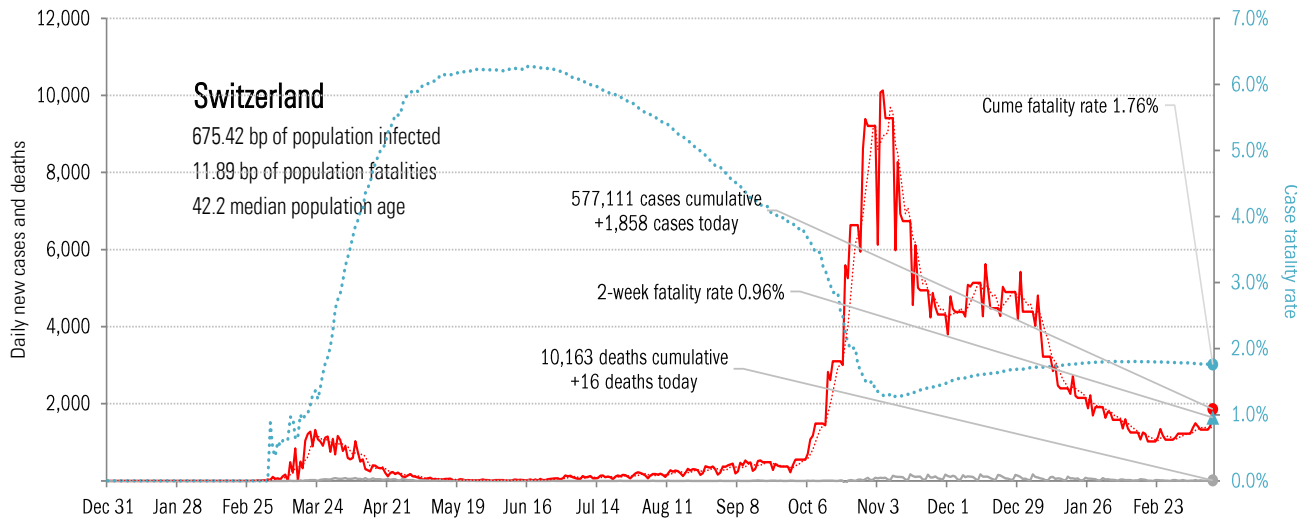
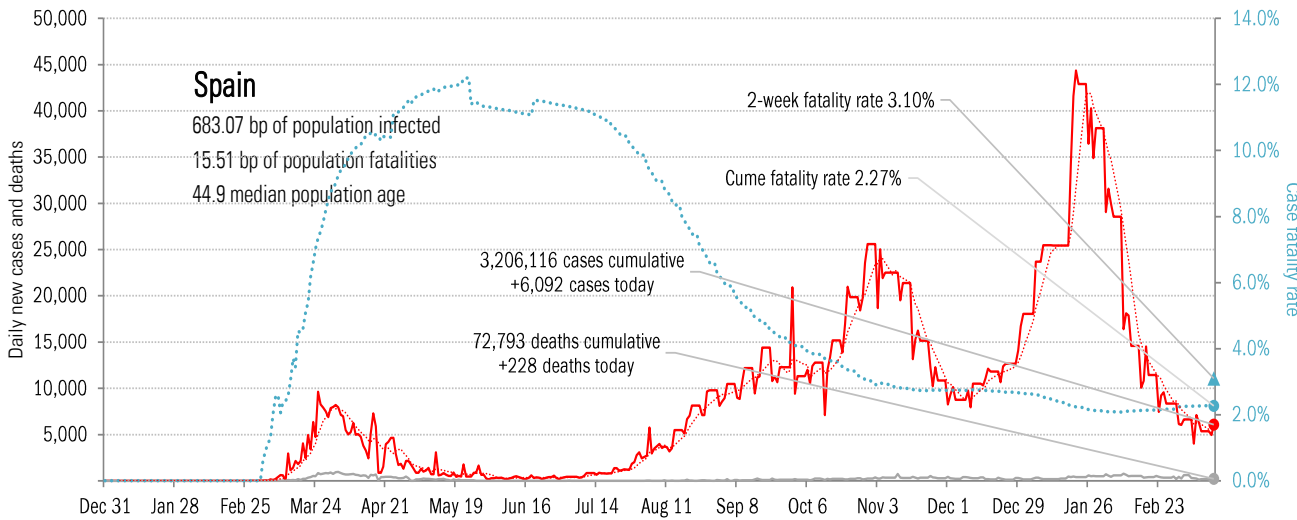
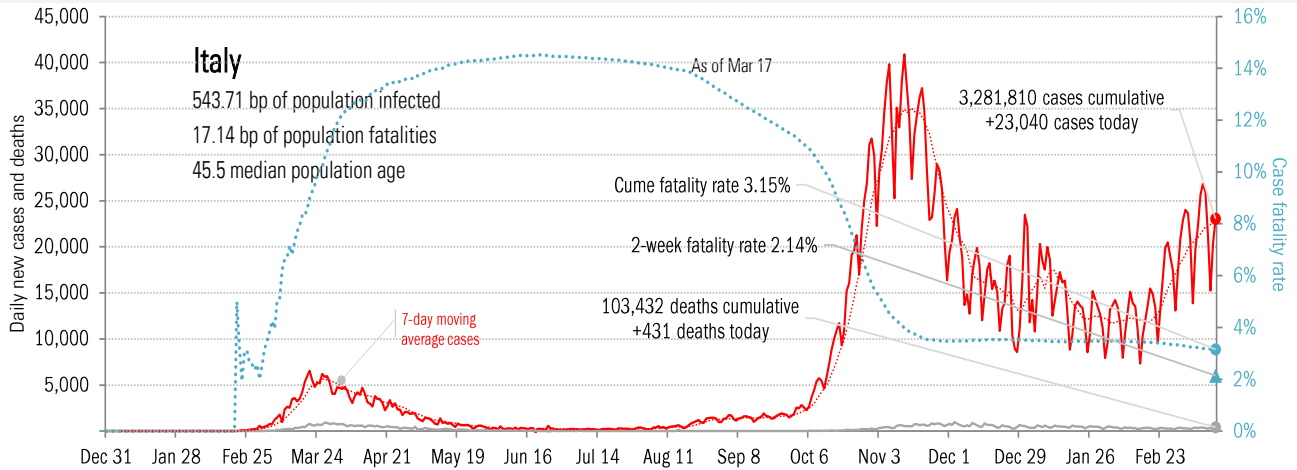
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



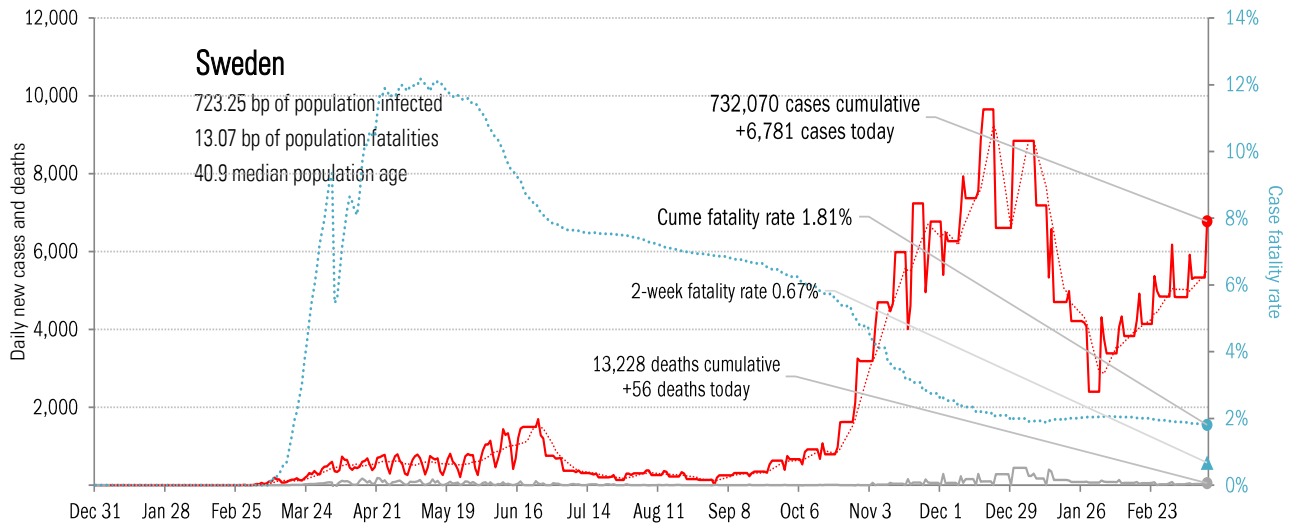
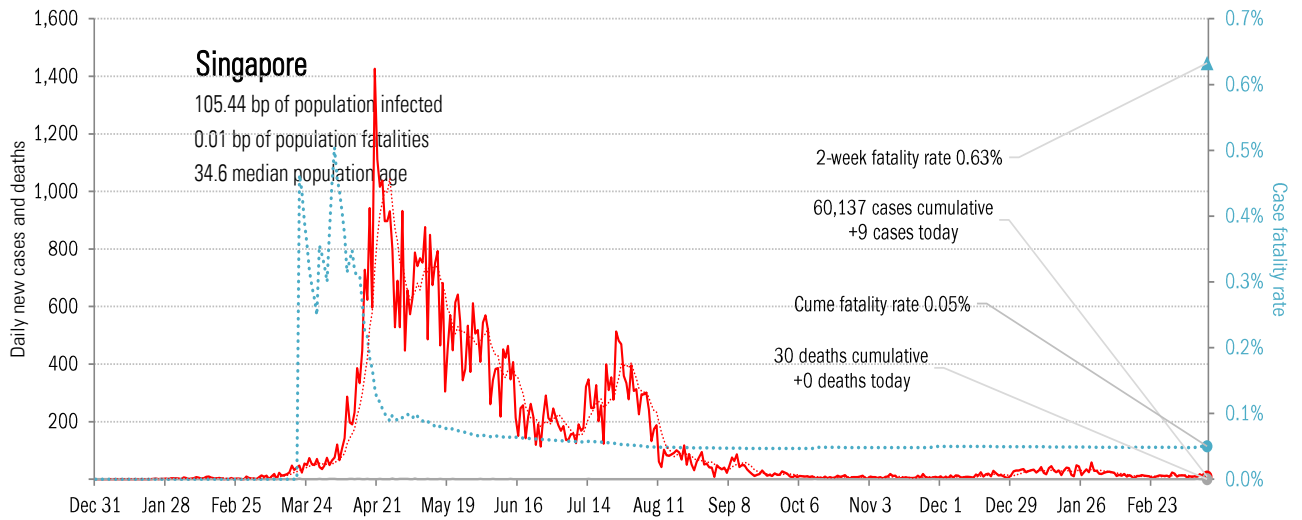
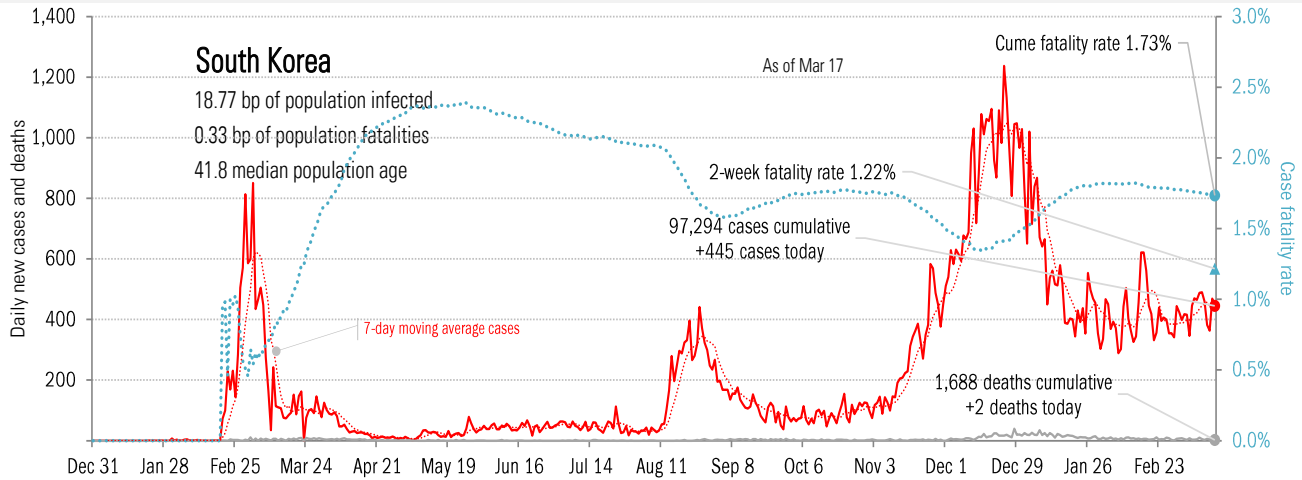
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



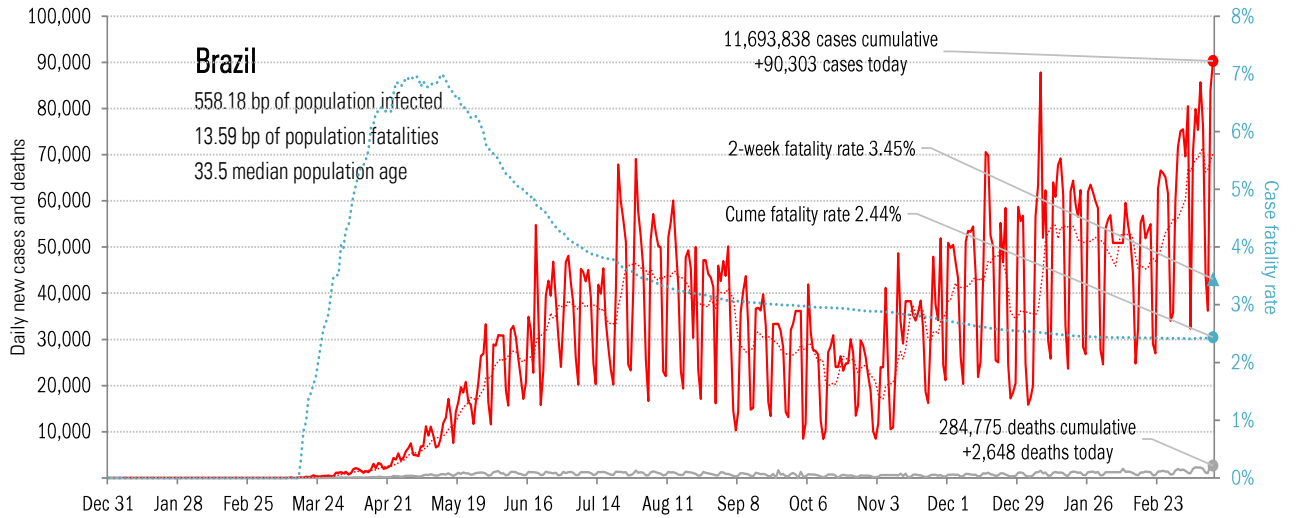
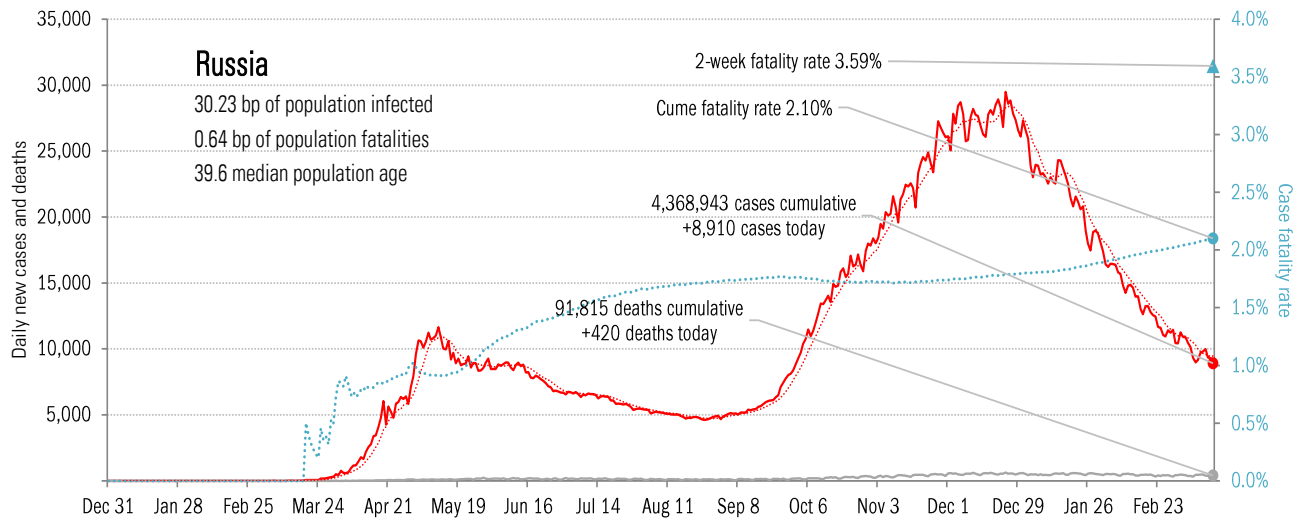
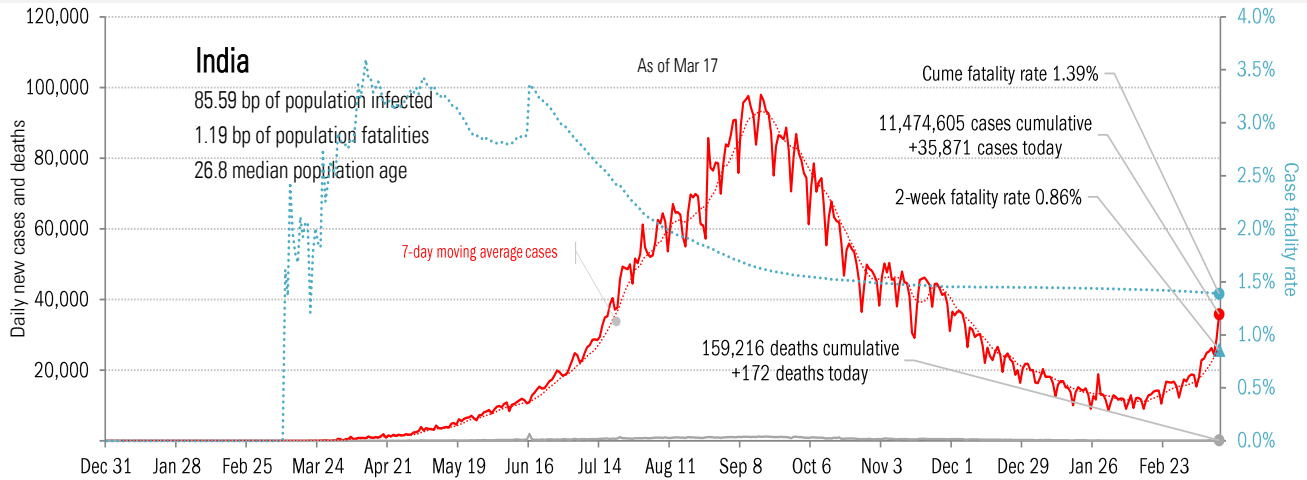
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



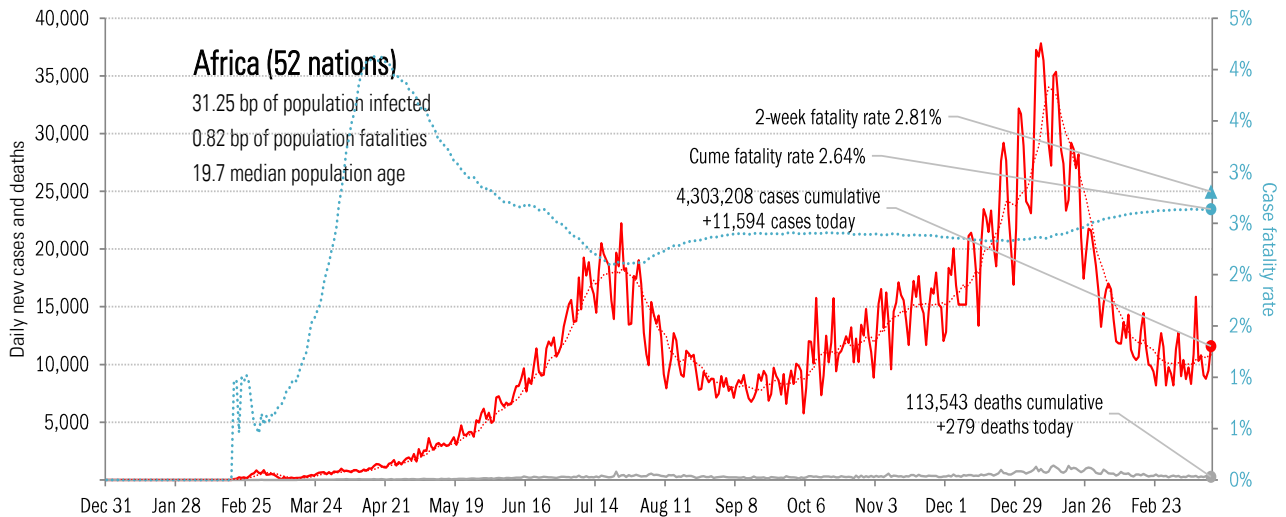
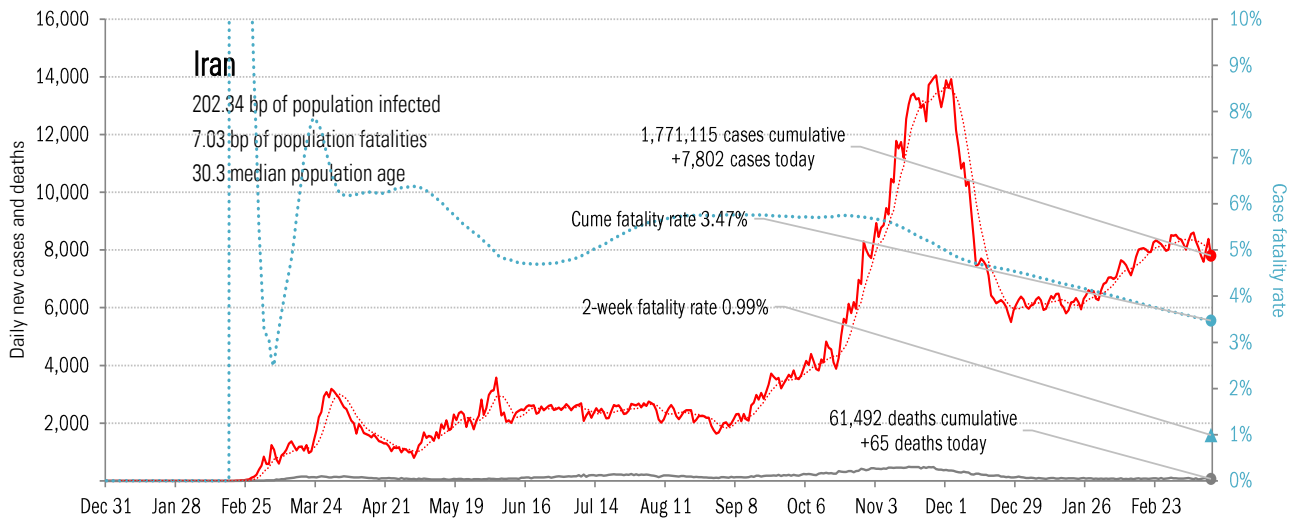
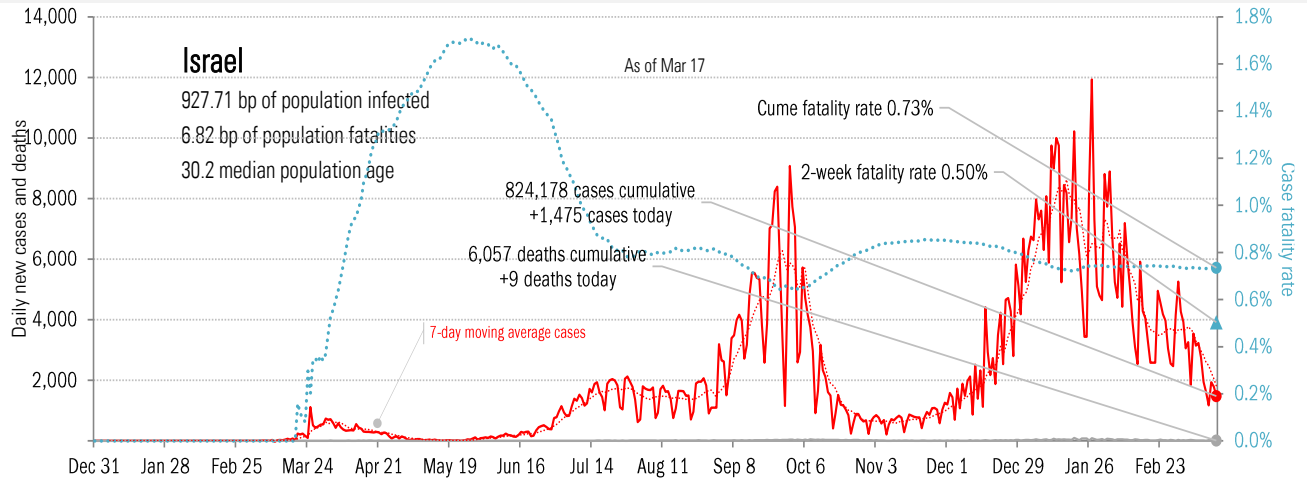
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



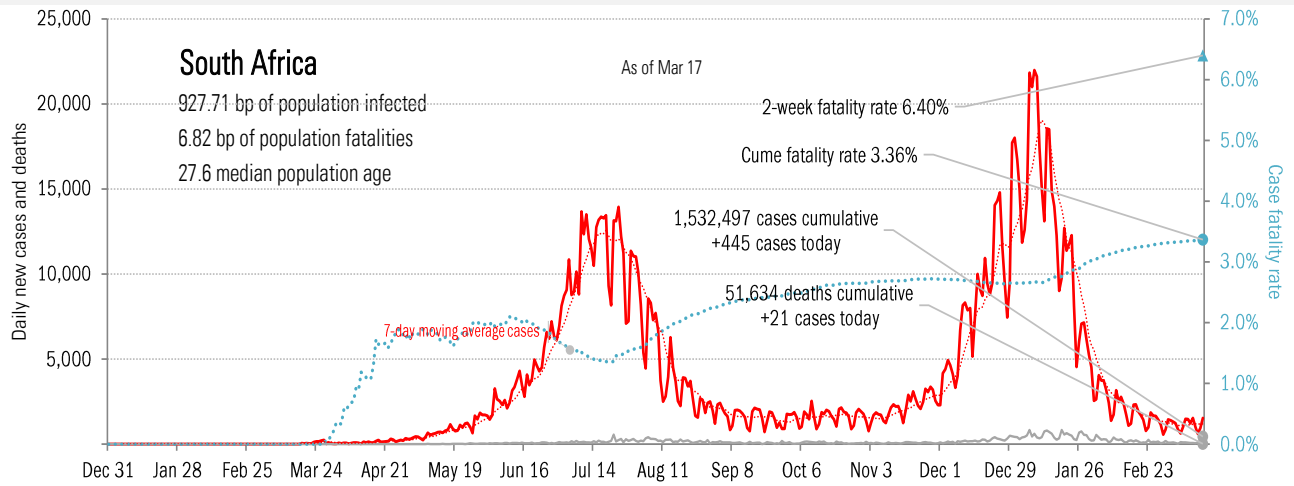
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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