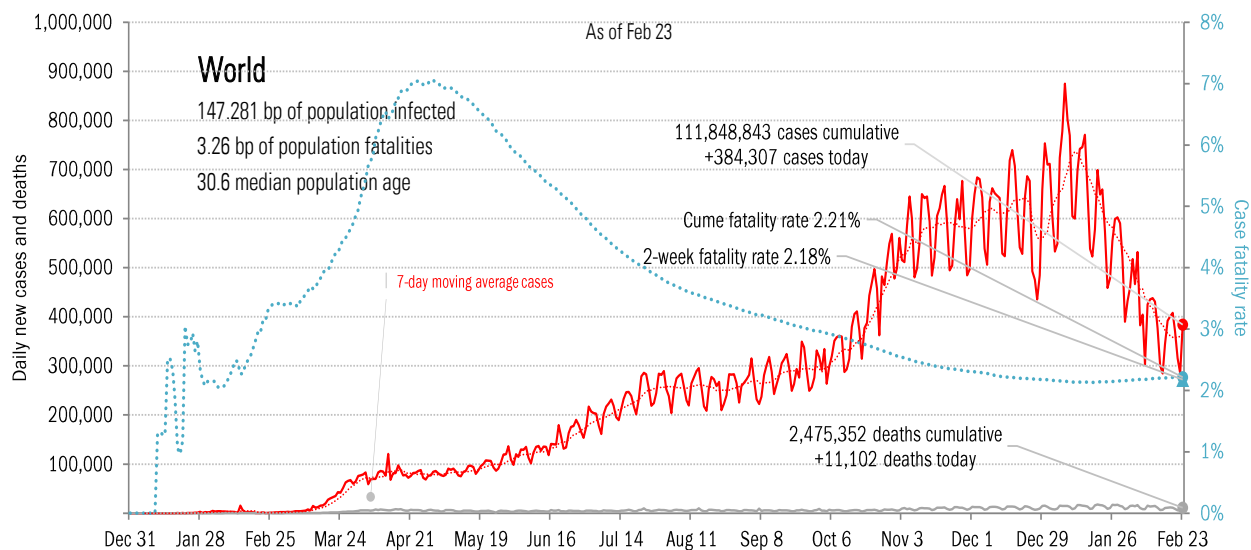
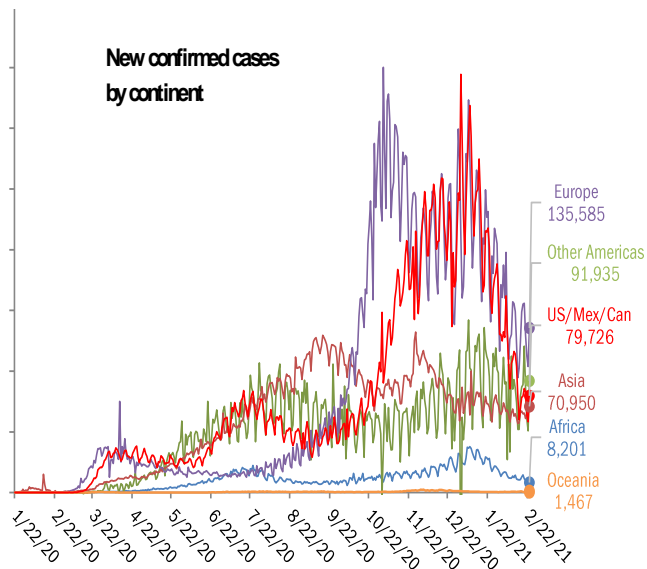


Data Insights: Covid-2019 Monitor

Wednesday, February 24, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+67,879	United States	+2,196
Brazil	+62,715	Brazil	+1,386
France	+20,180	Mexico	+1,273
India	+13,742	United Kingdom	+548
Italy	+13,299	Spain	+443
Russia	+11,679	France	+431
Czechia	+11,311	Germany	+422
Sweden	+10,933	Russia	+411
Indonesia	+9,775	Italy	+356
Turkey	+9,107	Indonesia	+323
+230,620		+7,789	
World	+384,307	World	+11,102
Top ten	60%	Top ten	70%



Source: [Johns Hopkins](#), [Covid Tracking Project](#), 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

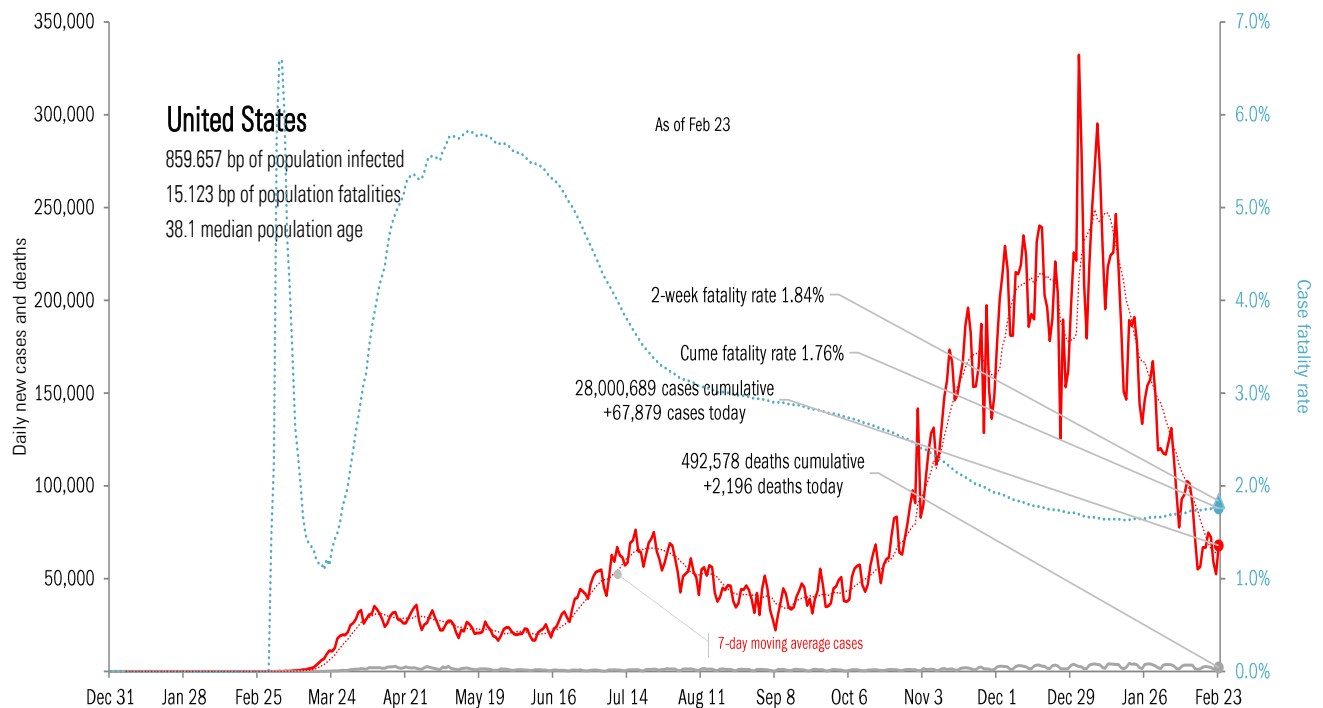
The ten worst US states

New cases			New Deaths			New in hospital			Cumulative cases			Cumulative deaths			Cumulative in hospital			Hospital use		ICU use	
TX	+11,809		TX	+234		NY	+173		CA	3,450,058		CA	49,563		NY	89,995		R	97%	DC	87%
NY	+6,654		CA	+225		VA	+81		TX	2,606,275		TX	41,641		FL	79,410		AK	89%	TX	85%
FL	+5,483		VA	+172		MI	+50		FL	1,844,228		NY	38,031		NJ	63,190		GA	78%	AL	82%
GA	+3,780		MO	+170		TX	+50		NY	1,591,585		FL	30,749		AZ	57,072		DC	77%	GA	82%
CA	+3,447		FL	+154		MN	+34		IL	1,177,320		PA	23,711		GA	55,167		FL	77%	DE	78%
NJ	+3,158		AZ	+148		KY	+24		GA	990,821		NJ	22,978		CH	49,651		SC	77%	OK	78%
PA	+2,830		NJ	+104		NJ	+24		CH	958,153		IL	22,528		AL	45,250		MA	76%	MO	78%
CH	+2,775		PA	+97		FL	+23		PA	917,848		CH	16,968		IN	42,557		MD	75%	MS	77%
MI	+1,784		CH	+94		CO	+14		NC	846,284		GA	16,927		MD	34,577		PA	74%	CA	77%
VA	+1,769		GA	+92		NM	+14		AZ	810,658		MI	16,380		WI	25,838		CT	74%	FL	76%
+43,489			+1,490			+487			15,193,230			279,476			542,707			All states 69%		70%	
All states +67,879			+2,196			-345			All states 28,000,689			492,578			859,560			All states 68%		70%	
Top ten 64%			68%			-141%			Top ten 54%			57%			63%			Median 68%		68%	

Some states not reporting

Five most improved US states

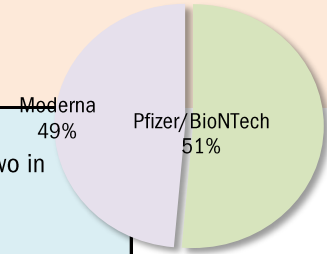
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CA	-1,218	CT	-29	CA	-109	TX	+21,801
TN	-952	KS	-29	AL	-95	MS	+8,981
KS	-883	TN	-20	AZ	-67	CH	+4,154
CT	-876	IL	-18	AR	-54	PA	+2,518
NC	-619	IA	-12	IL	-52	NM	+1,503



Source: [Covid Tracking Project](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US

US overall	Over last day
82.11 million doses distributed	+6.91 million/day
65.03 million doses administered	+0.85 million/day
44.54 million persons with one shot	+0.41 million/day
19.88 million persons with two shots	+0.44 million/day
6.63 million shots long-term care residents/staff	+0.05 million/day
79.2% of distributed doses administered	
13.3% of US pop 1 shot	6.0% 2 shots
100% of LTC 1 shot	47.5% 2 shots



At today's dosing pace,
every American will have two in
692 days
by Jan 15, 2023
US will achieve herd immunity in
319 days
by Jan 8, 2022

State	Best	Middle	Worst
Shots given as % population	Green	Yellow	Red
Warning: 1st and 2nd doses not separated, resulting in double-counting			

AK
32.8%

ME
22.3%

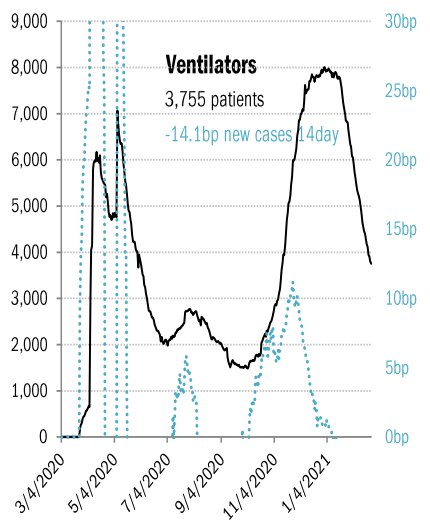
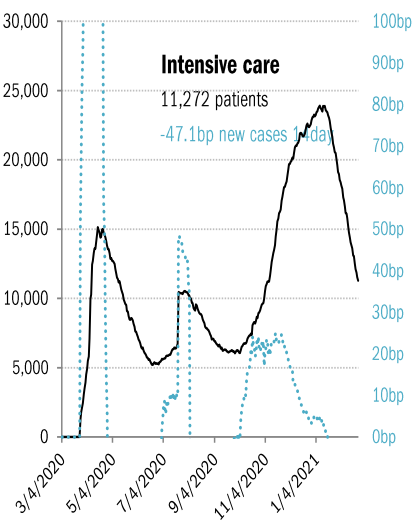
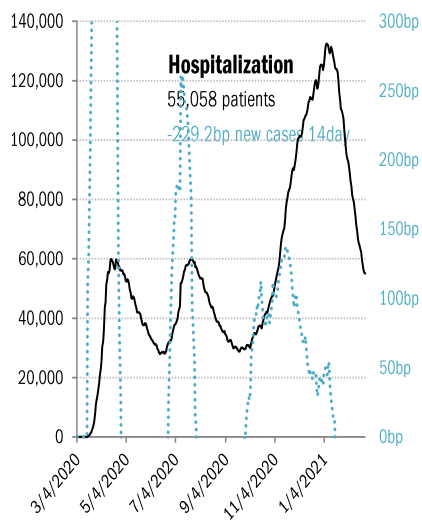
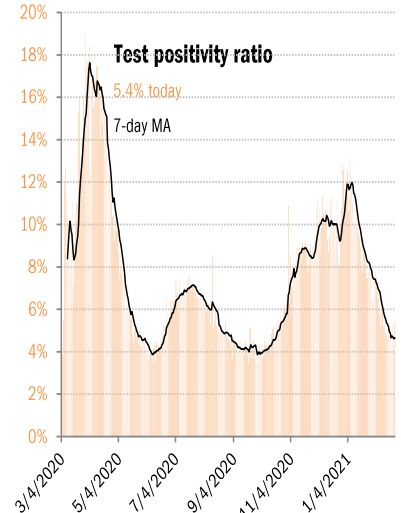
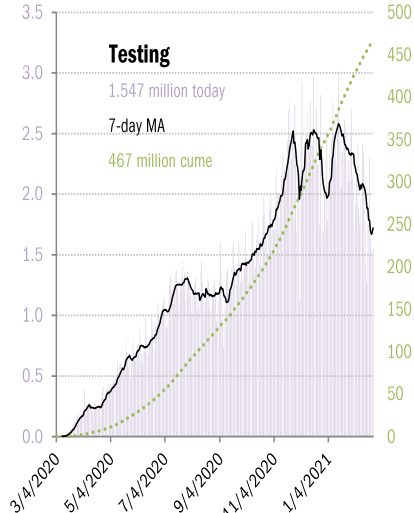
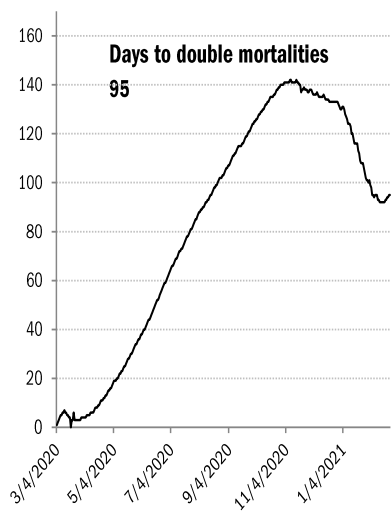
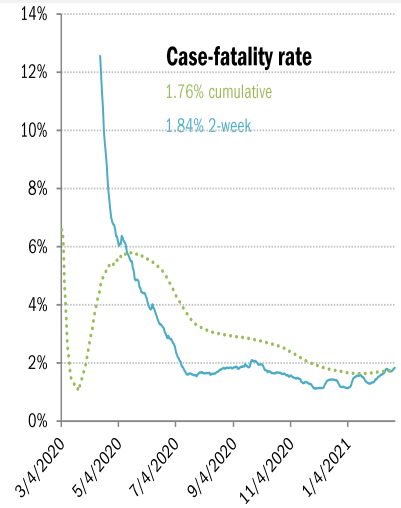
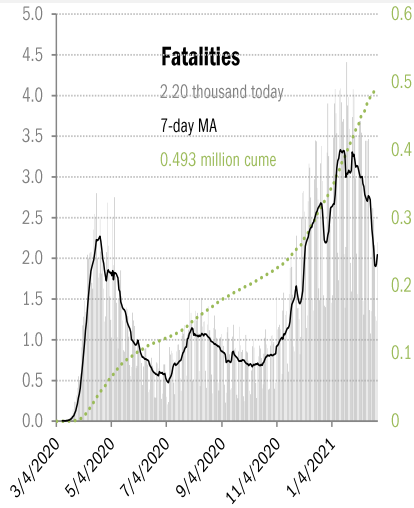
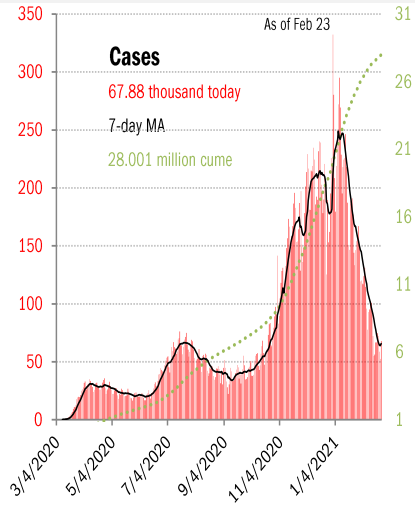
					WI					VT	NH
					21.6%					23.1%	20.2%
WA	ID	MT	ND	MN	IL	MI		NY	MA		
19.6%	19.1%	22.7%	25.8%	20.8%	19.1%	19.9%		19.4%	21.8%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI	
20.5%	19.4%	23.5%	26.8%	19.5%	19.3%	19.1%	18.6%	19.8%	25.0%	20.0%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE		
19.6%	19.1%	21.4%	20.3%	18.1%	19.1%	26.3%	20.7%	18.7%	19.2%		
	AZ	NM	KS	AR	TN	NC	SC	DC			
	21.0%	29.2%	17.8%	17.9%	16.7%	20.2%	18.3%	23.6%			
			OK	LA	MS	AL	GA				
			22.9%	19.5%	17.0%	16.6%	17.7%				
			TX								
			16.6%								
								FL			
								20.5%			
										PR	
										15.0%	

HI
23.6%

Source: [CDC](#), [CDC](#), TrendMacro calculations

US deep-dive

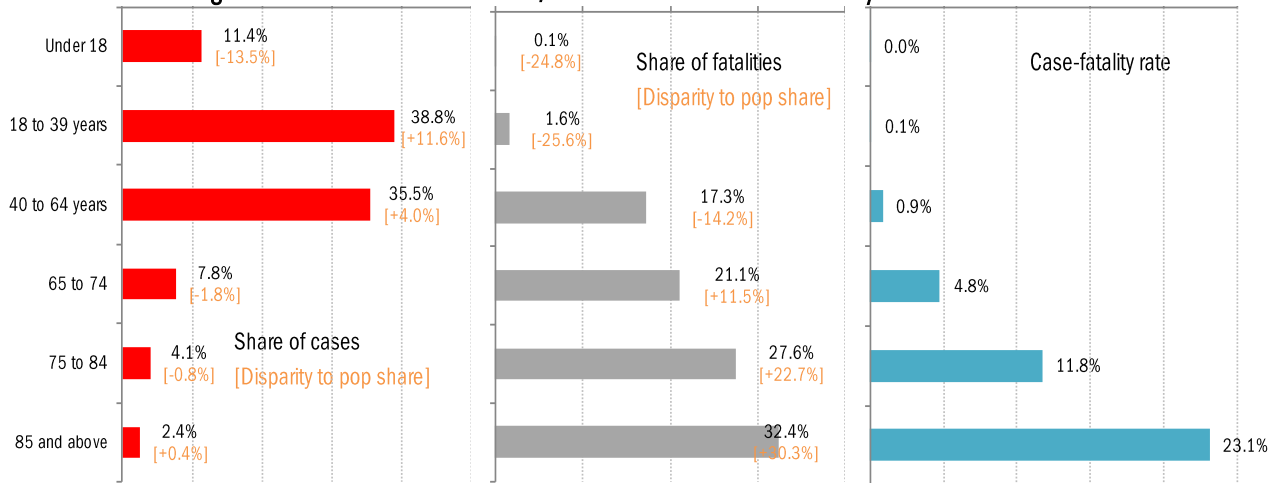
National and state-by-state data do not line up because of different sources



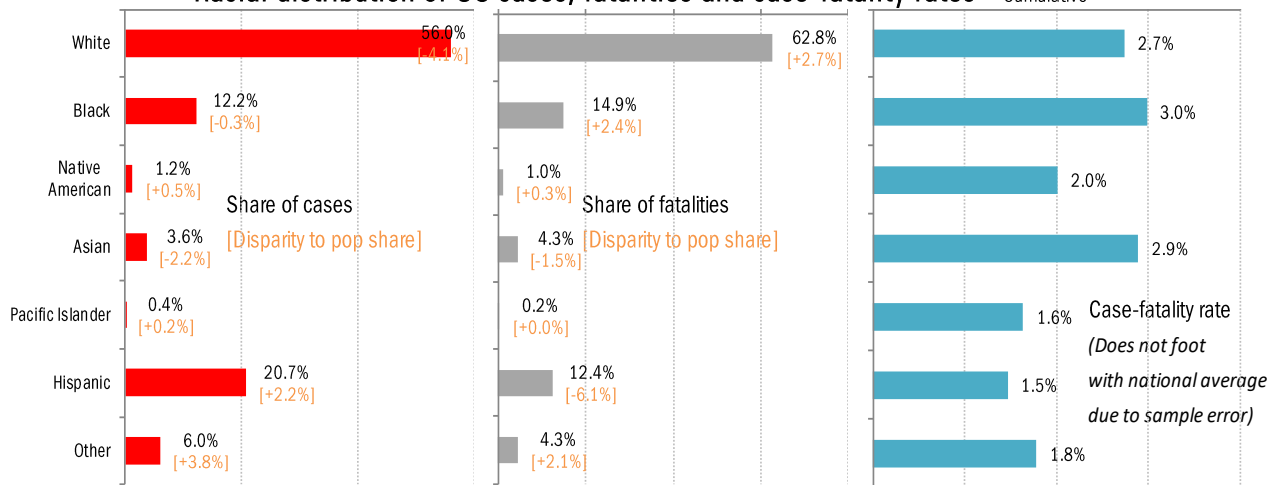
Source: [Covid Tracking Project](https://covidtracking.com), TrendMacro calculations

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

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

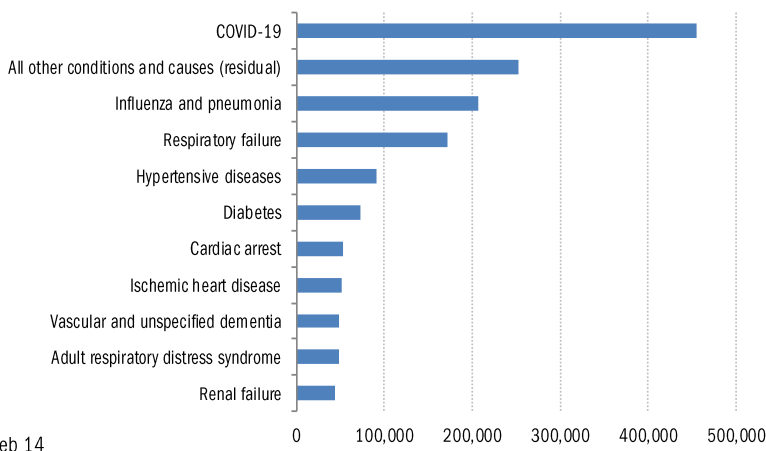


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Feb 14

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

[San Francisco Pauses School Renamings to Focus on Returning Students to Classrooms](#)

Azi Paybarah
New York Times
February 23, 2021

[China's Reckless Labs Put the World at Risk](#)

Mike Pompeo and Miles Yu
Wall Street Journal
February 23, 2021

[Vaccine-induced immunity provides more robust heterotypic immunity than natural infection to emerging SARS-CoV-2 variants of concern.](#)

Donal T. Skelly et al.
Research Square
February 9, 2021

[Densely sampled viral trajectories suggest longer duration of acute infection with B.1.1.7 variant relative to non-B.1.1.7 SARS-CoV-2](#)

Stephen M. Kissler et al.
medRxiv
February 19, 2021

[This 105-Year-Old Beat Covid. She Credits Gin-Soaked Raisins.](#)

Tracey Tully
New York Times
February 23, 2021

[Pandemic Approaches: The Differences Between Florida, California](#)

Greg Allen, Eric Westervelt
NPR
February 18, 2021

[COVID-positive Admissions Were Correlated with Higher Death Rates in New York Nursing Homes](#)

Bill Hammond, Ian Kingsbury
Empire Center
February 18, 2021

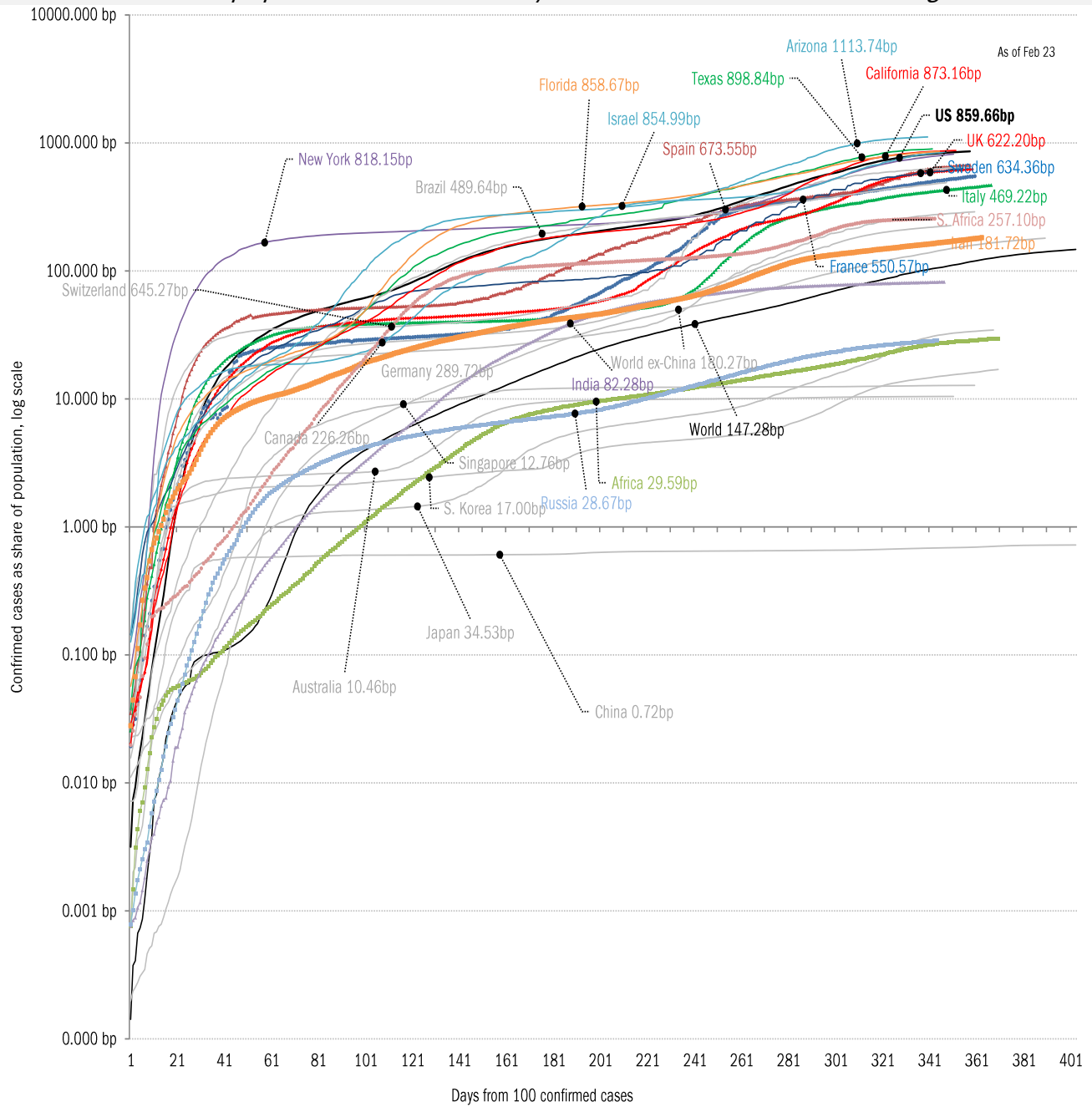
Meme of day

I just found some change in my pocket from the last time I went out!



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

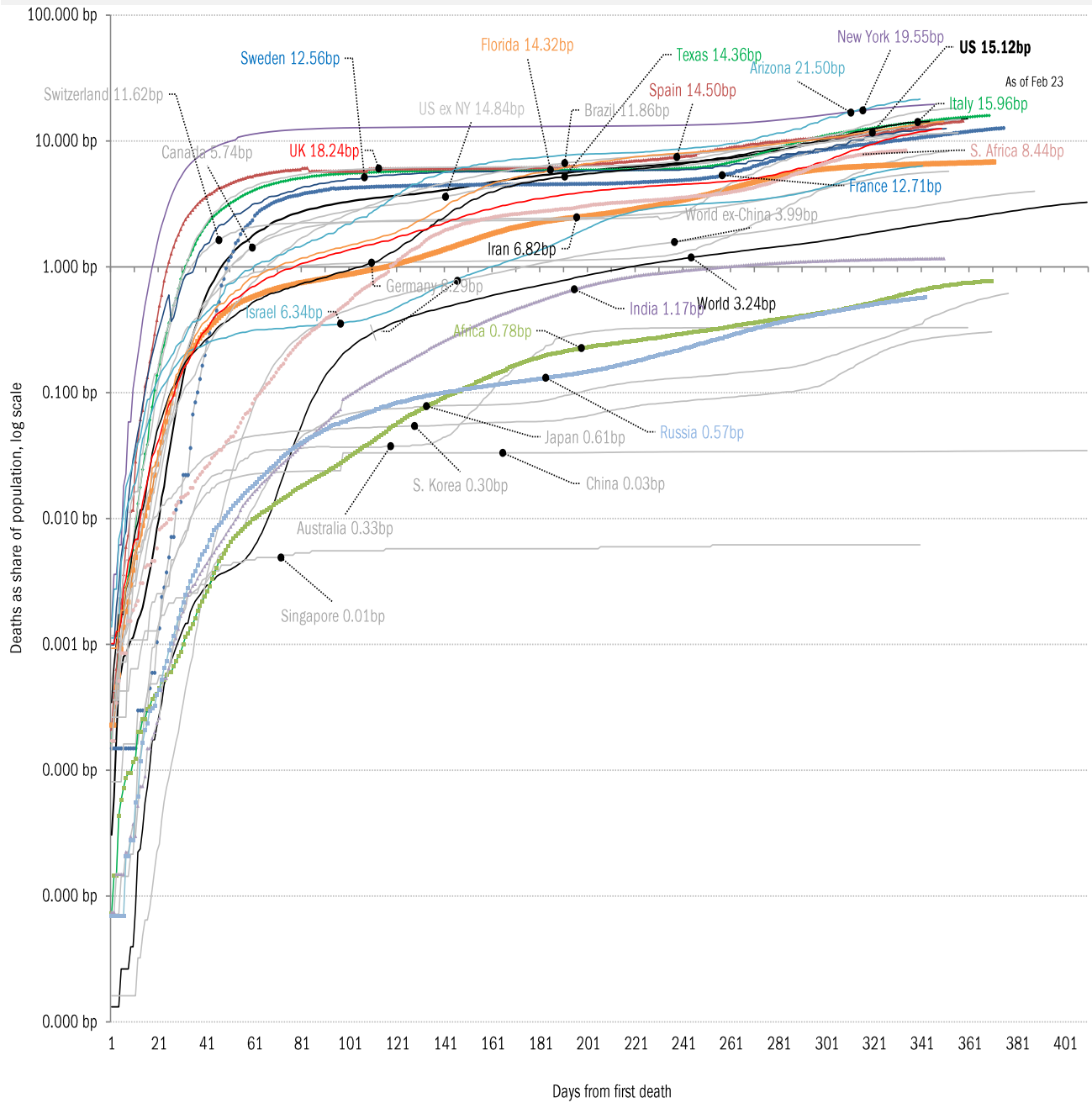
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

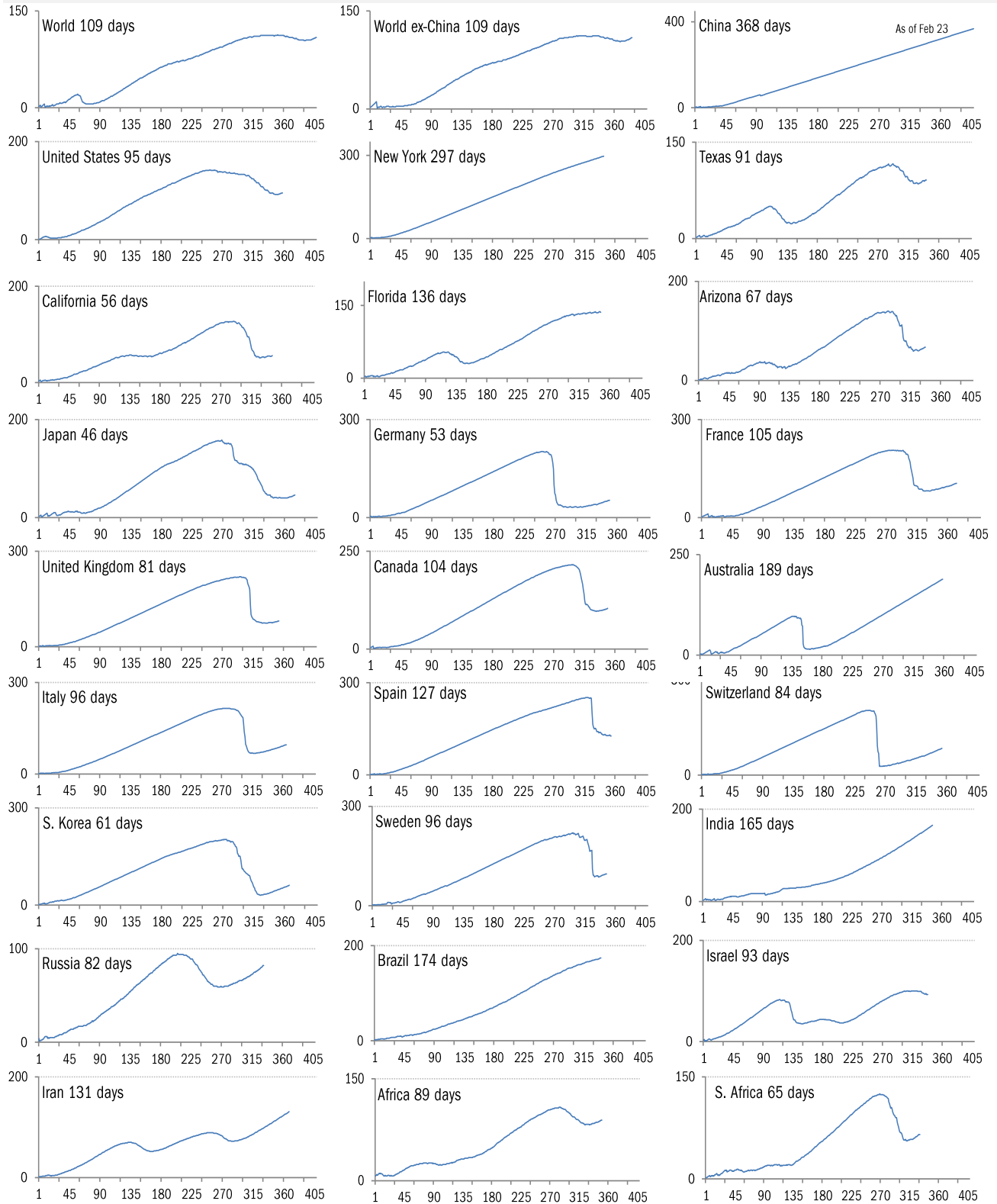


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

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

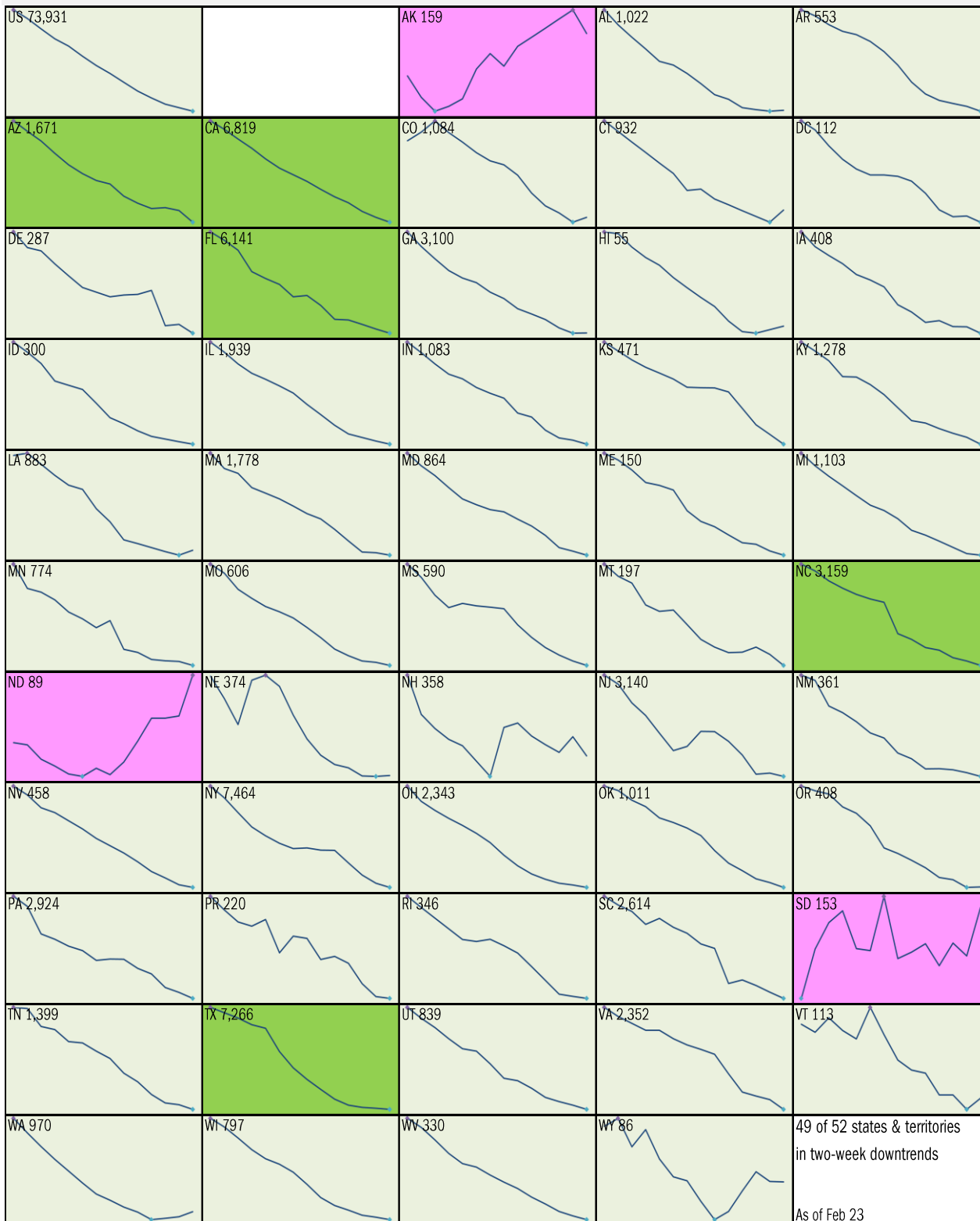
Vertical: days to double deaths Horizontal: days from first death

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread



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

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

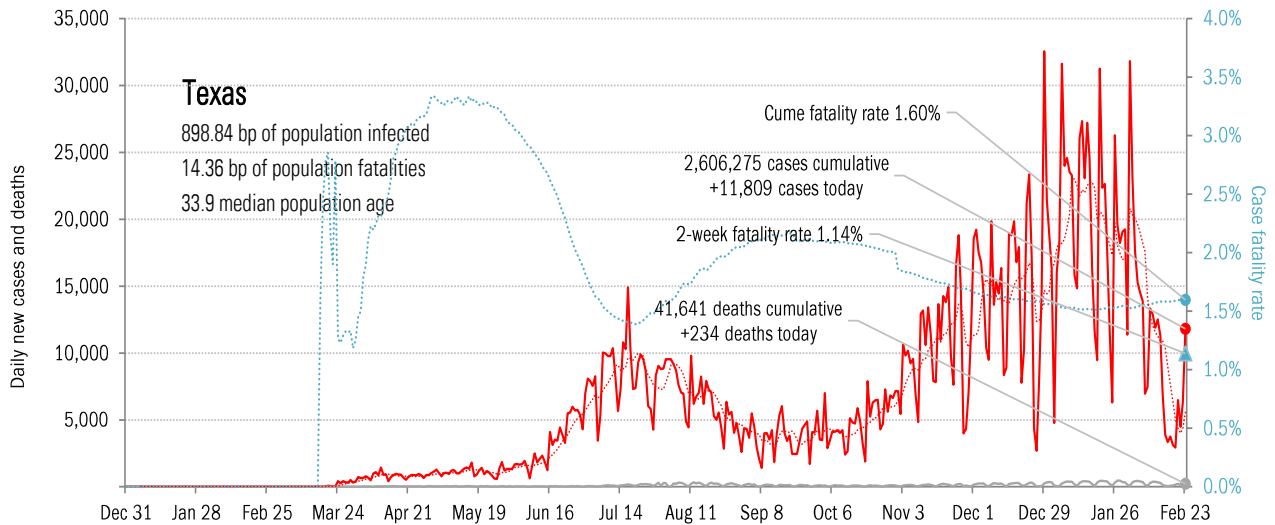
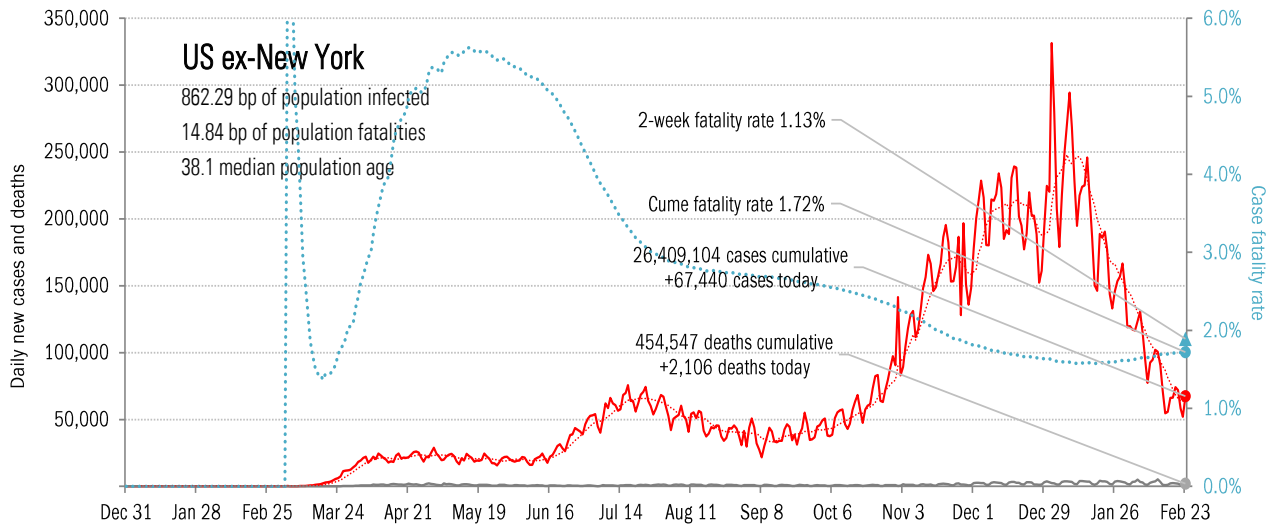
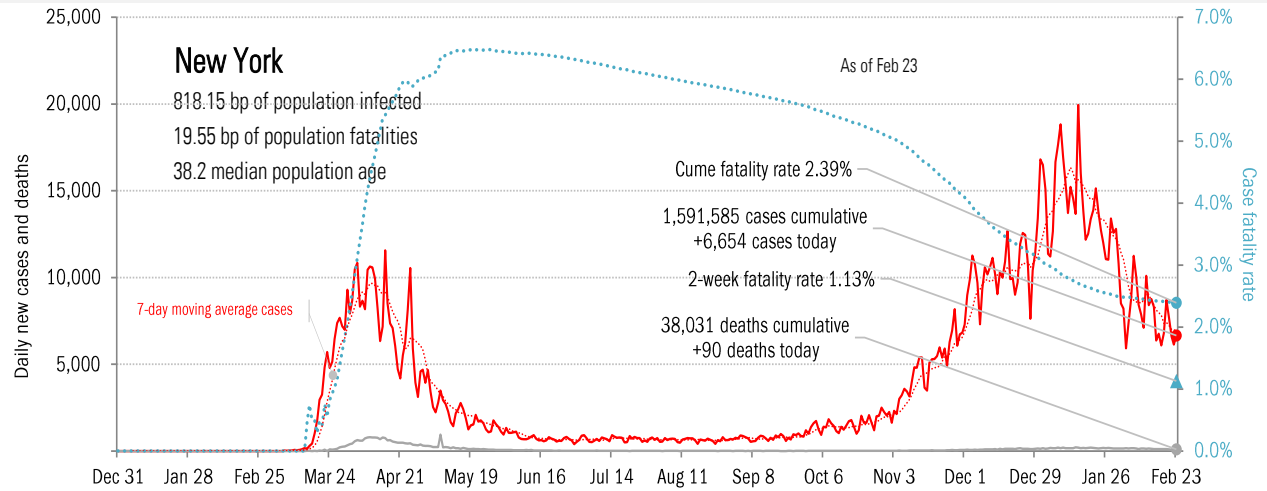
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



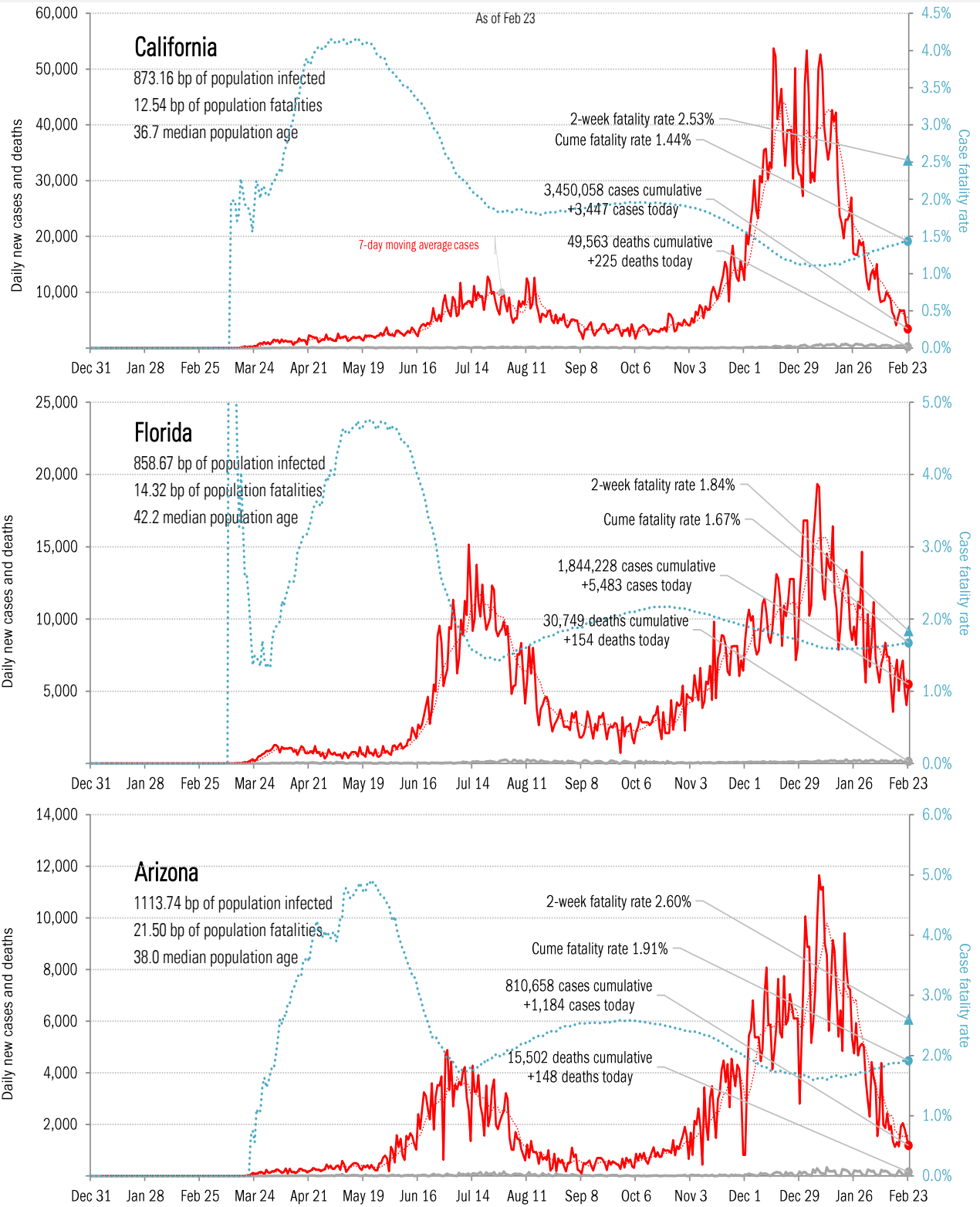
Source: [Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



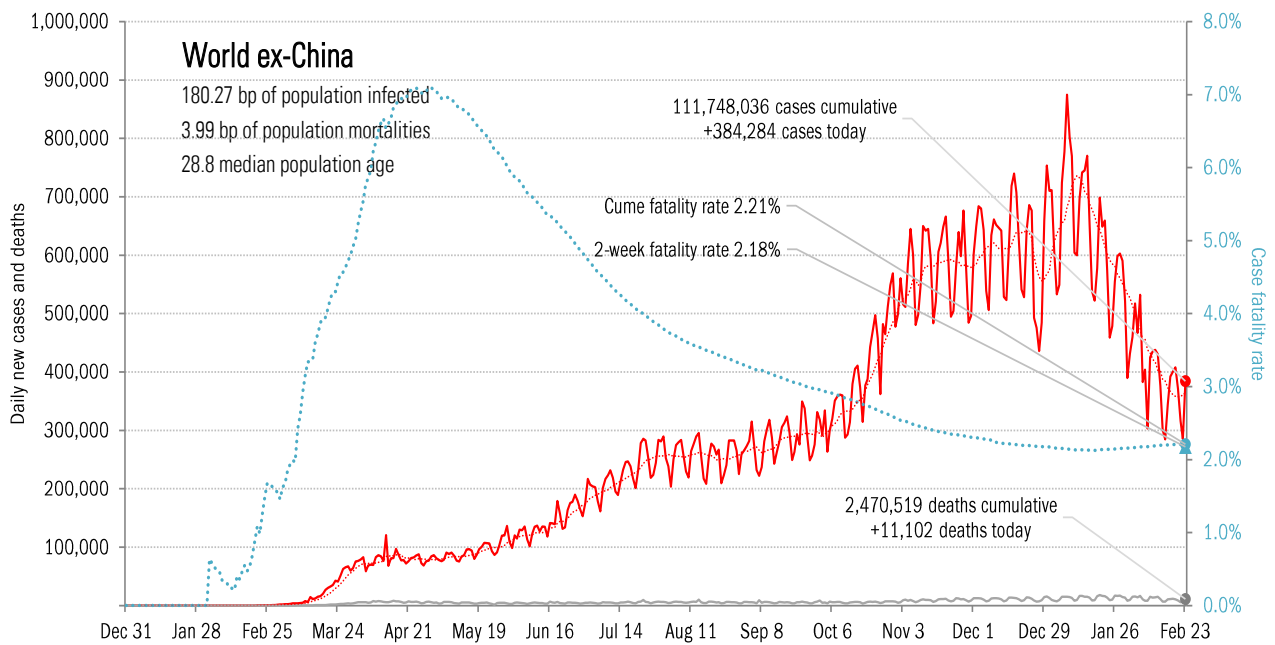
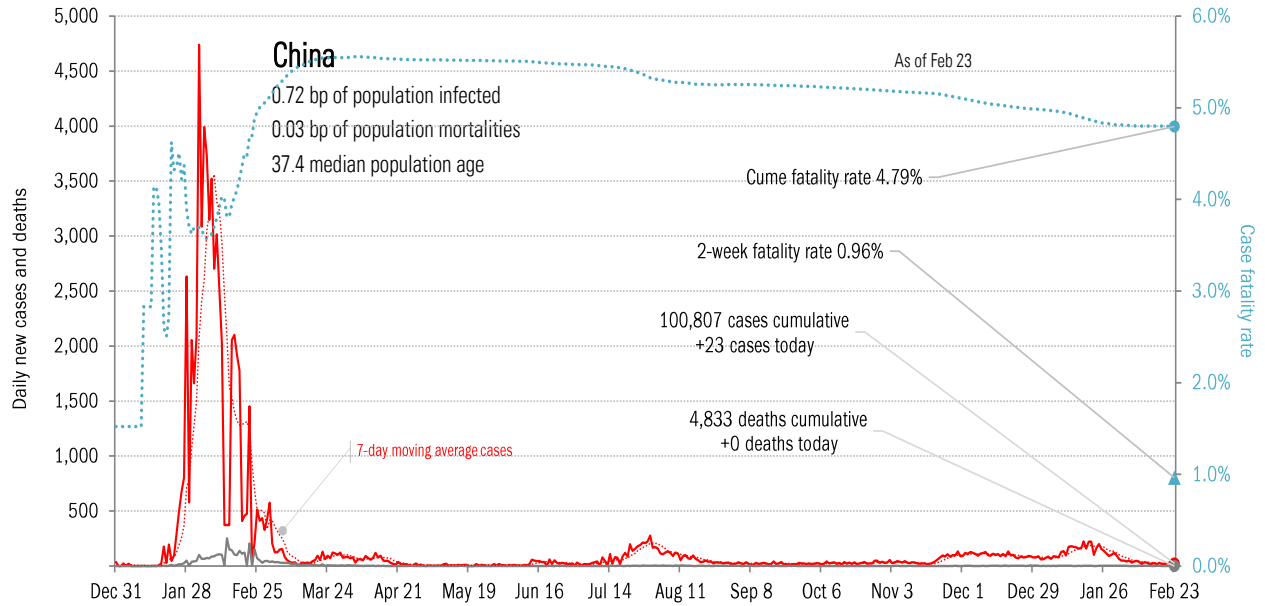
Source: [Covid Tracking Project](#), TrendMacro calculations

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



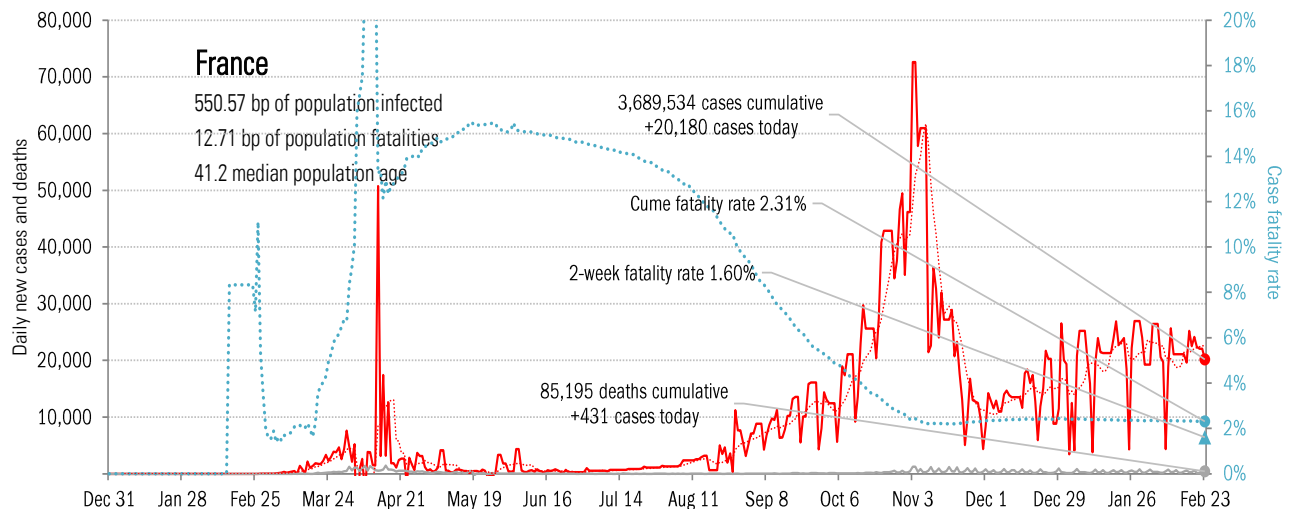
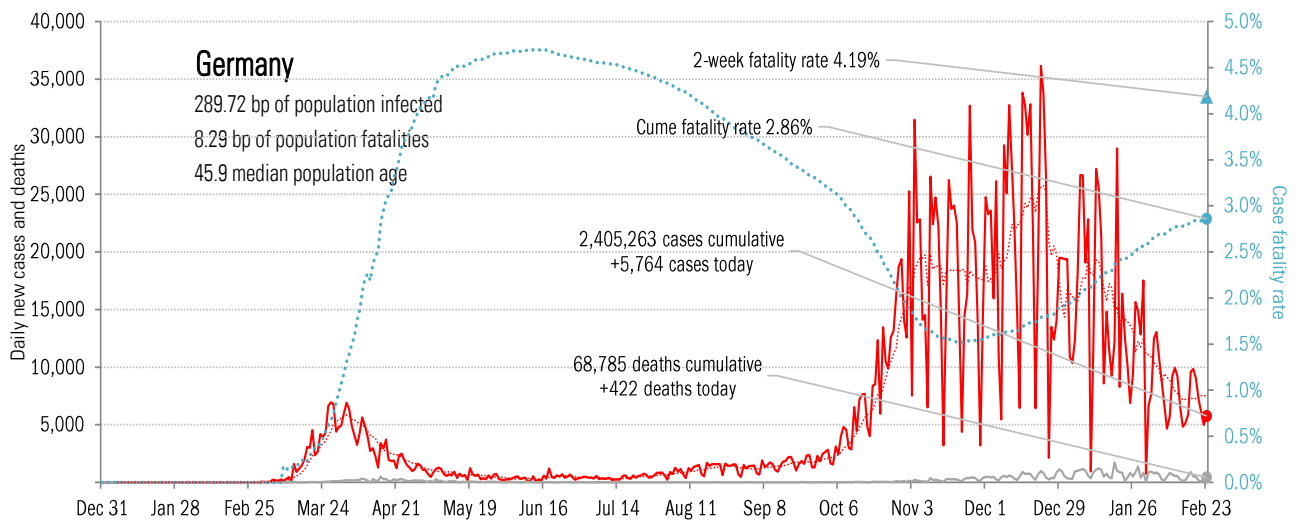
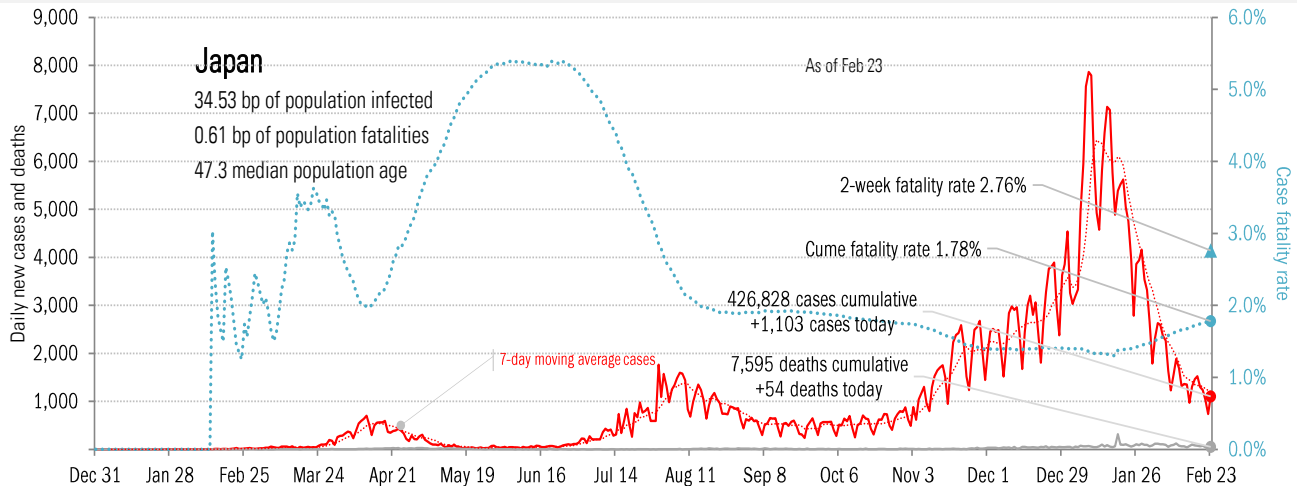
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



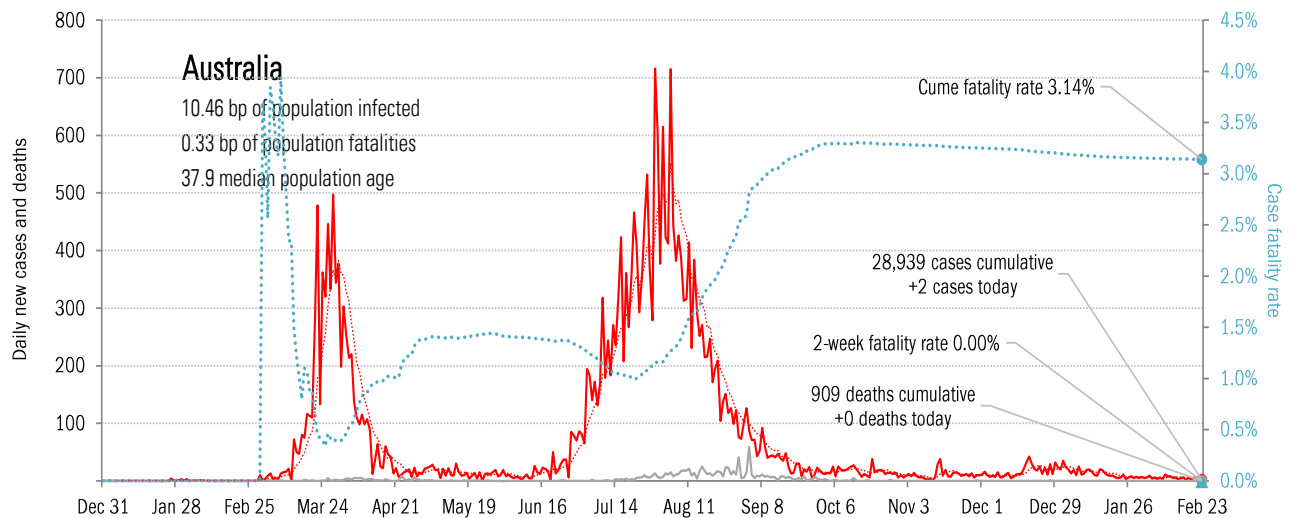
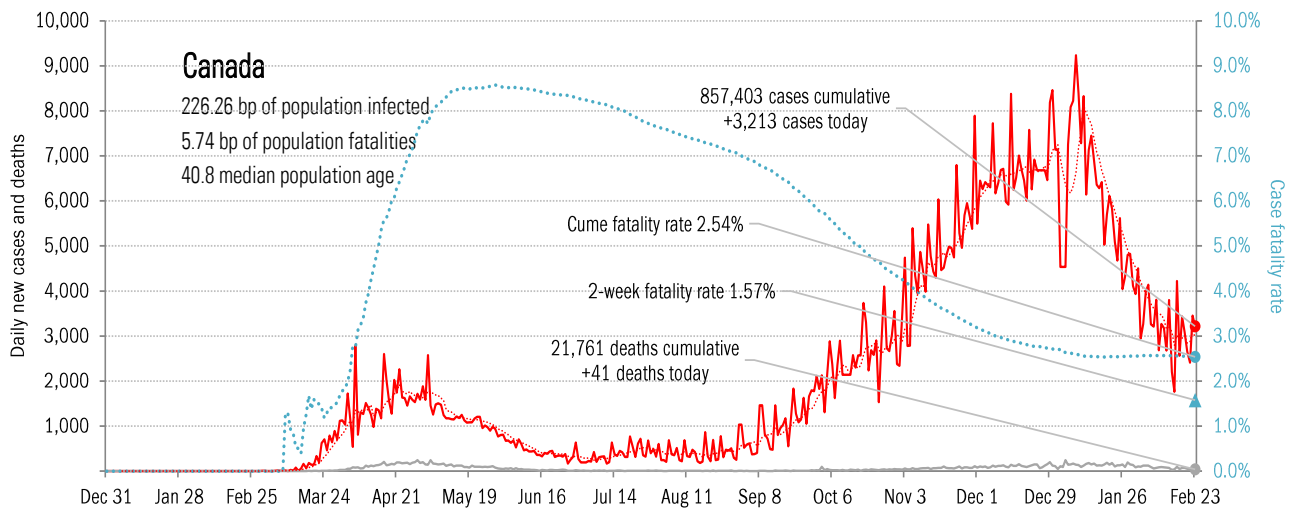
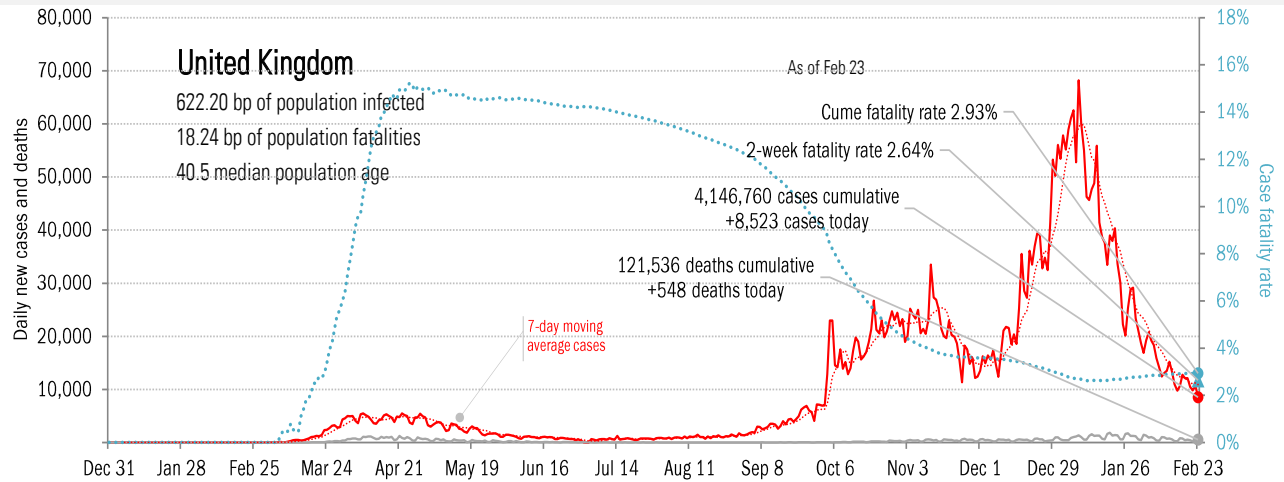
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



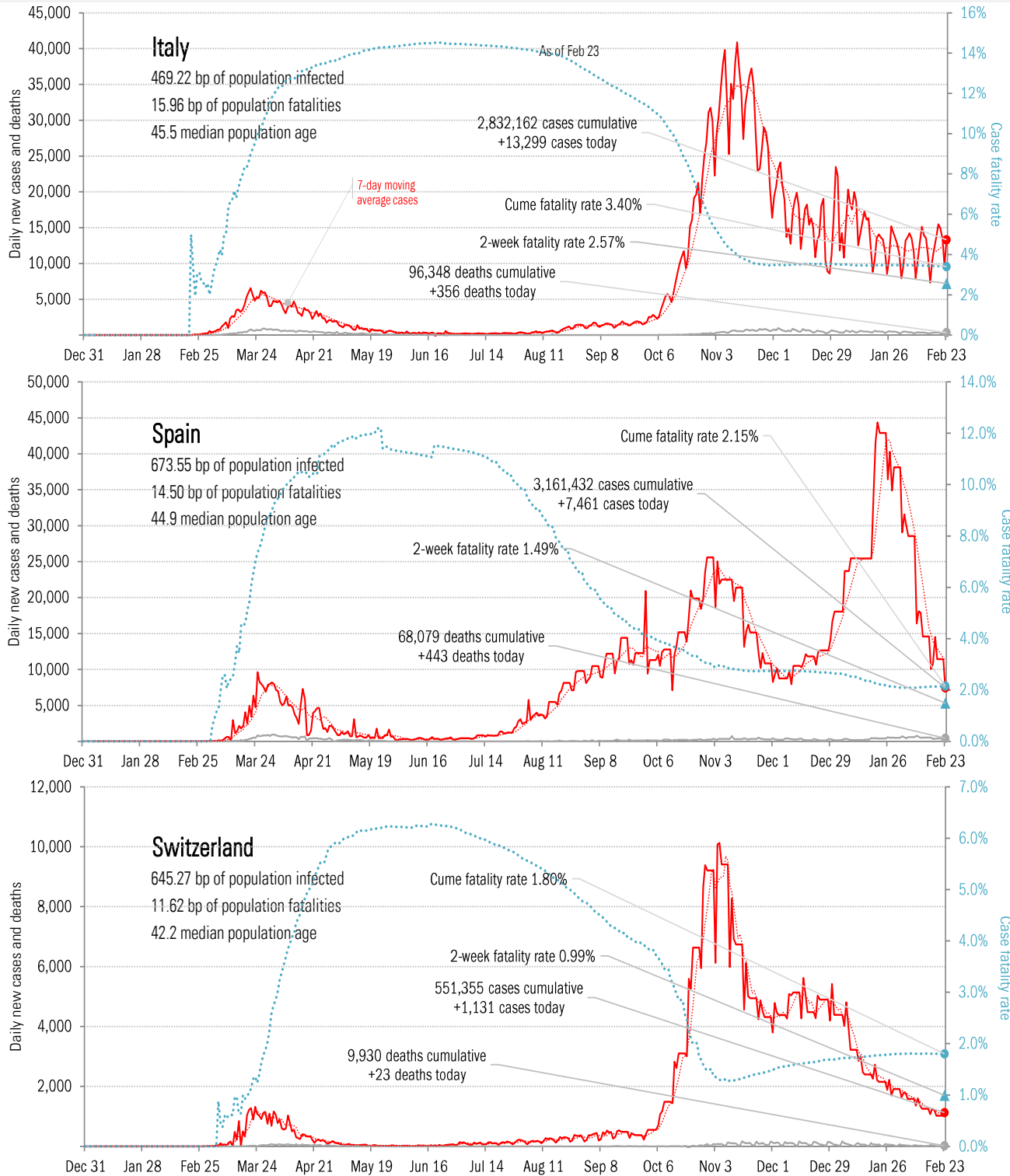
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



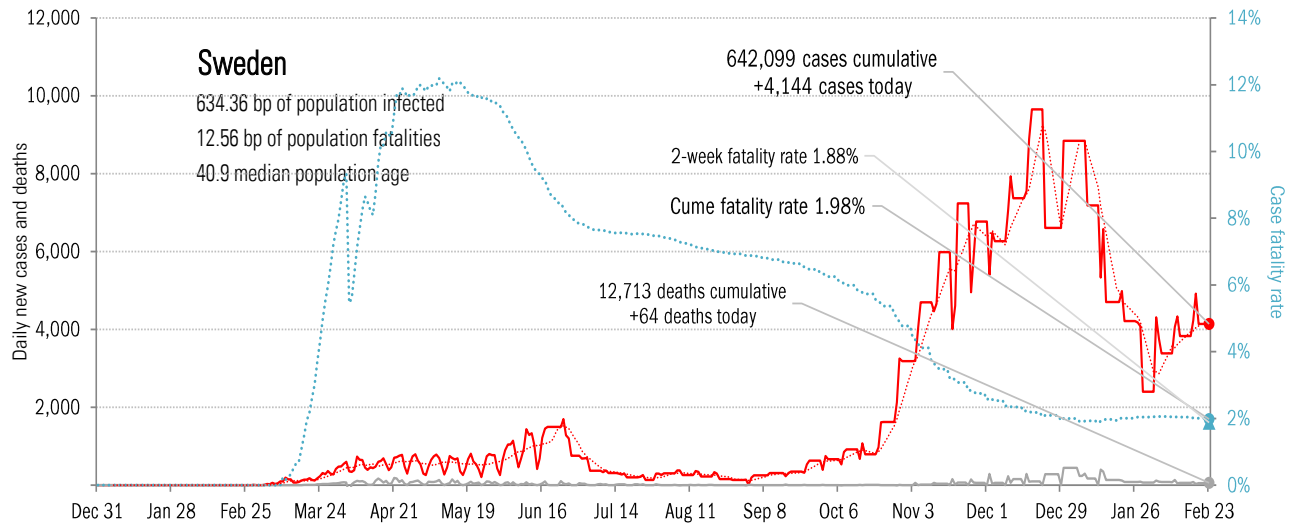
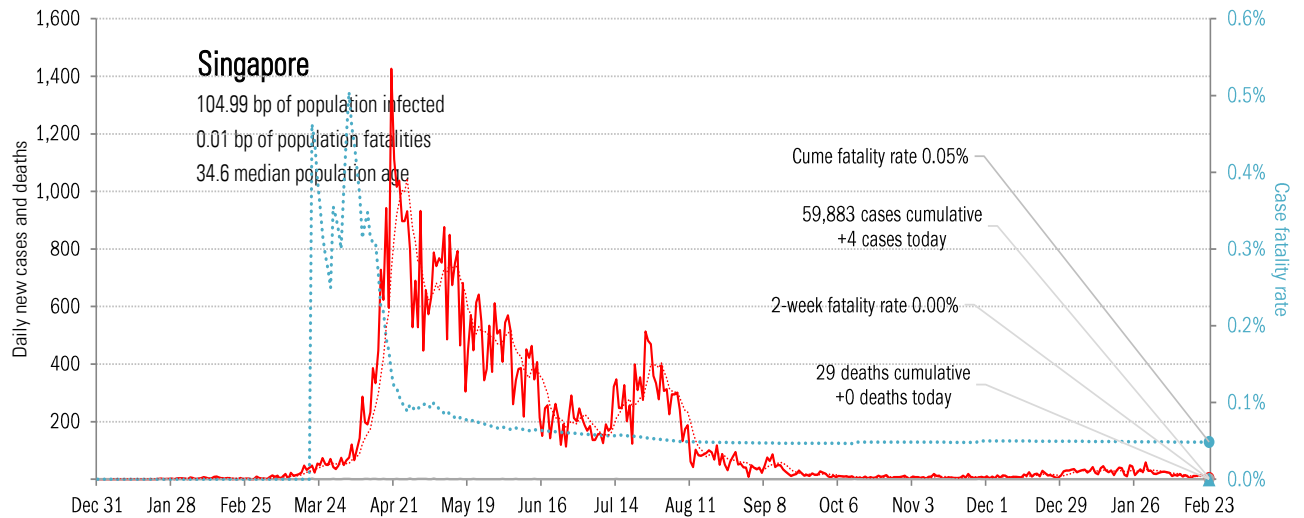
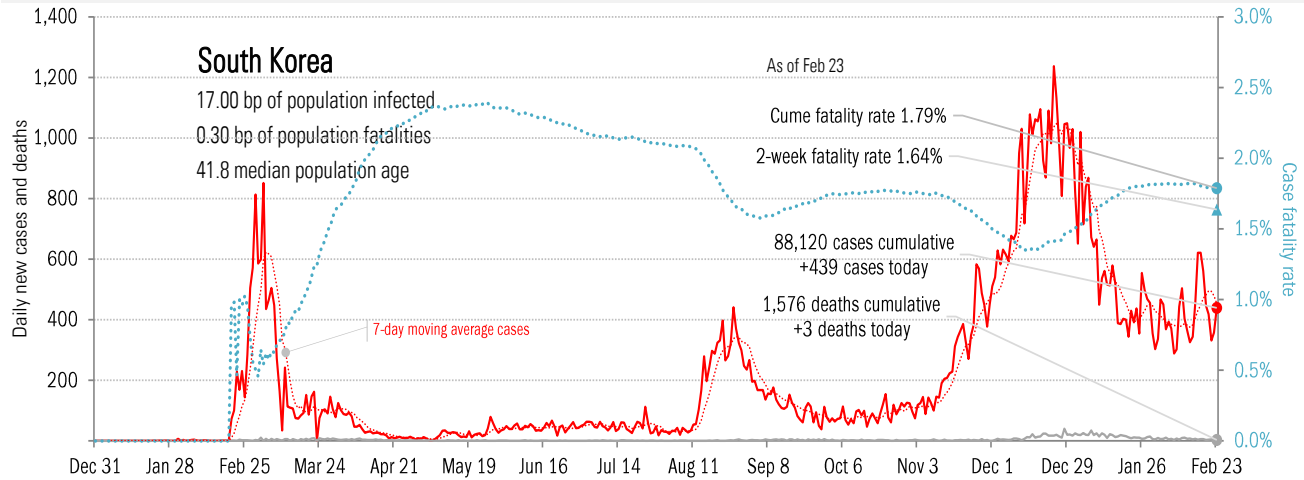
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



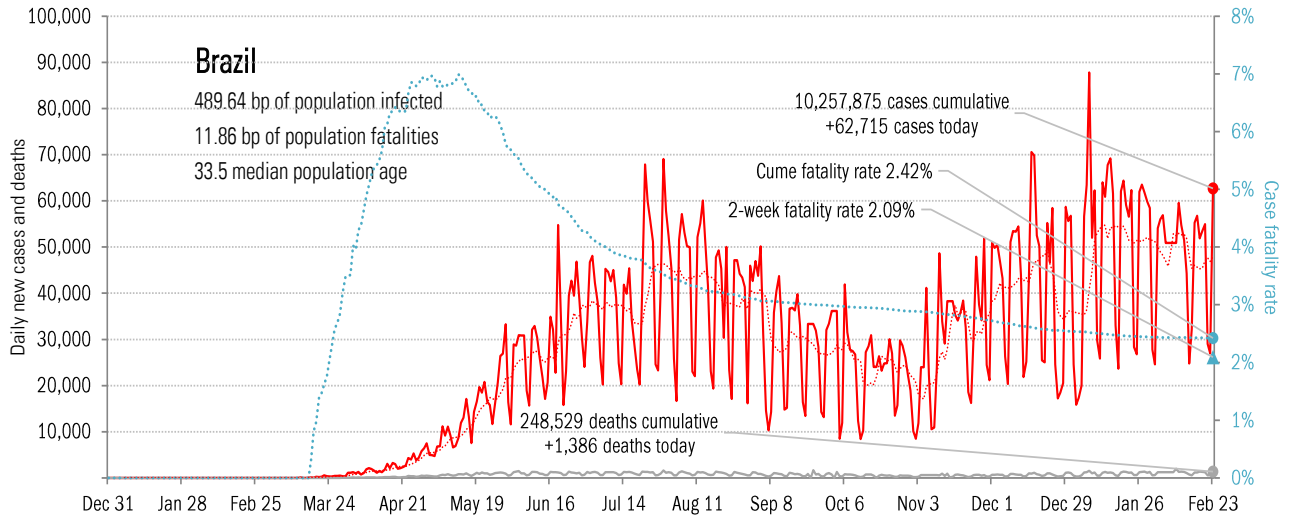
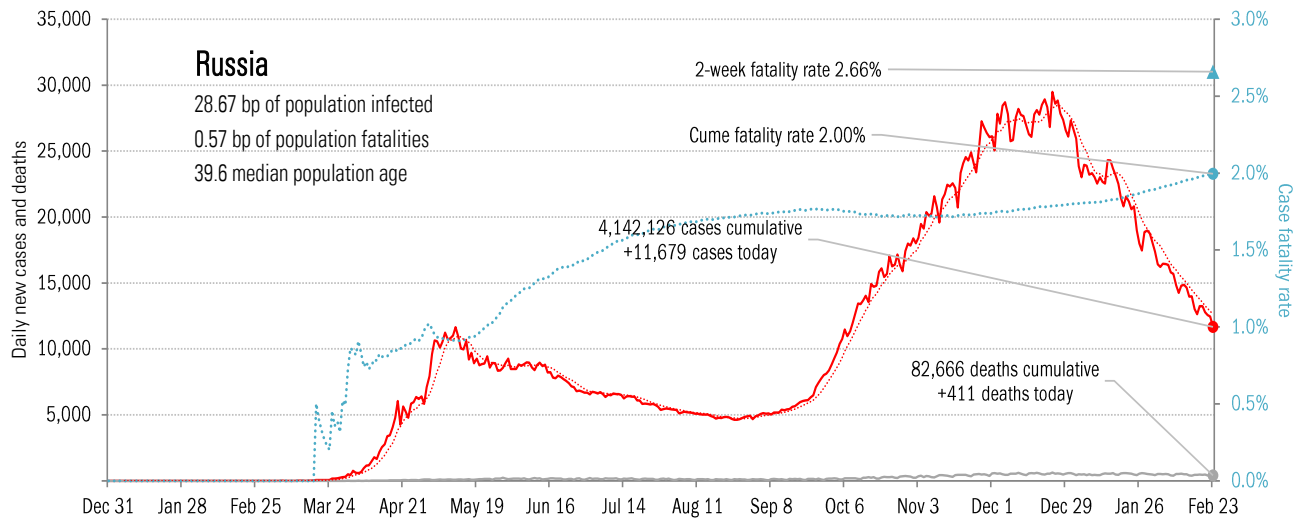
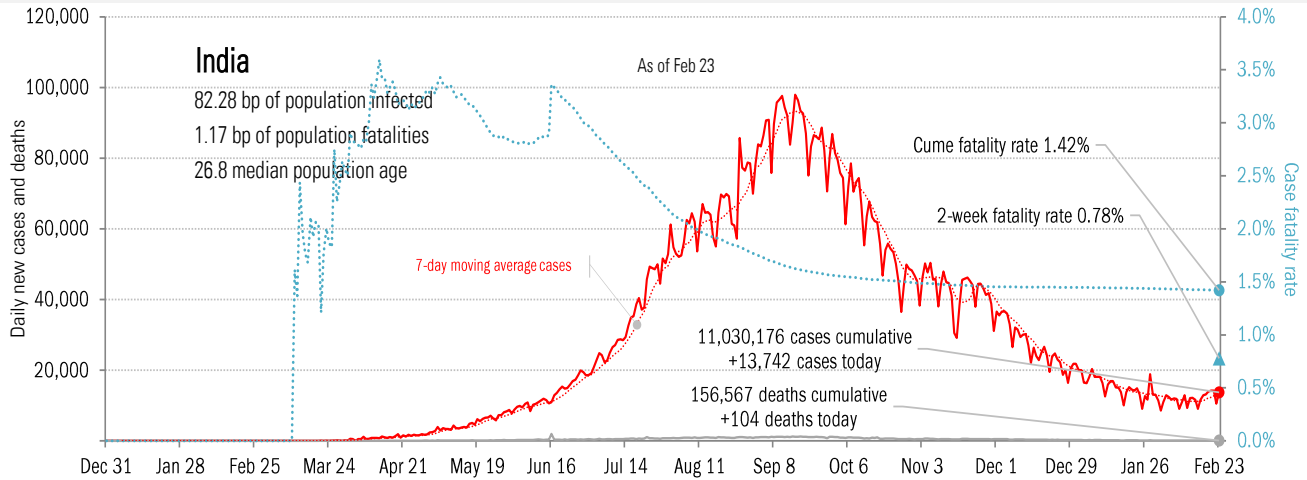
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



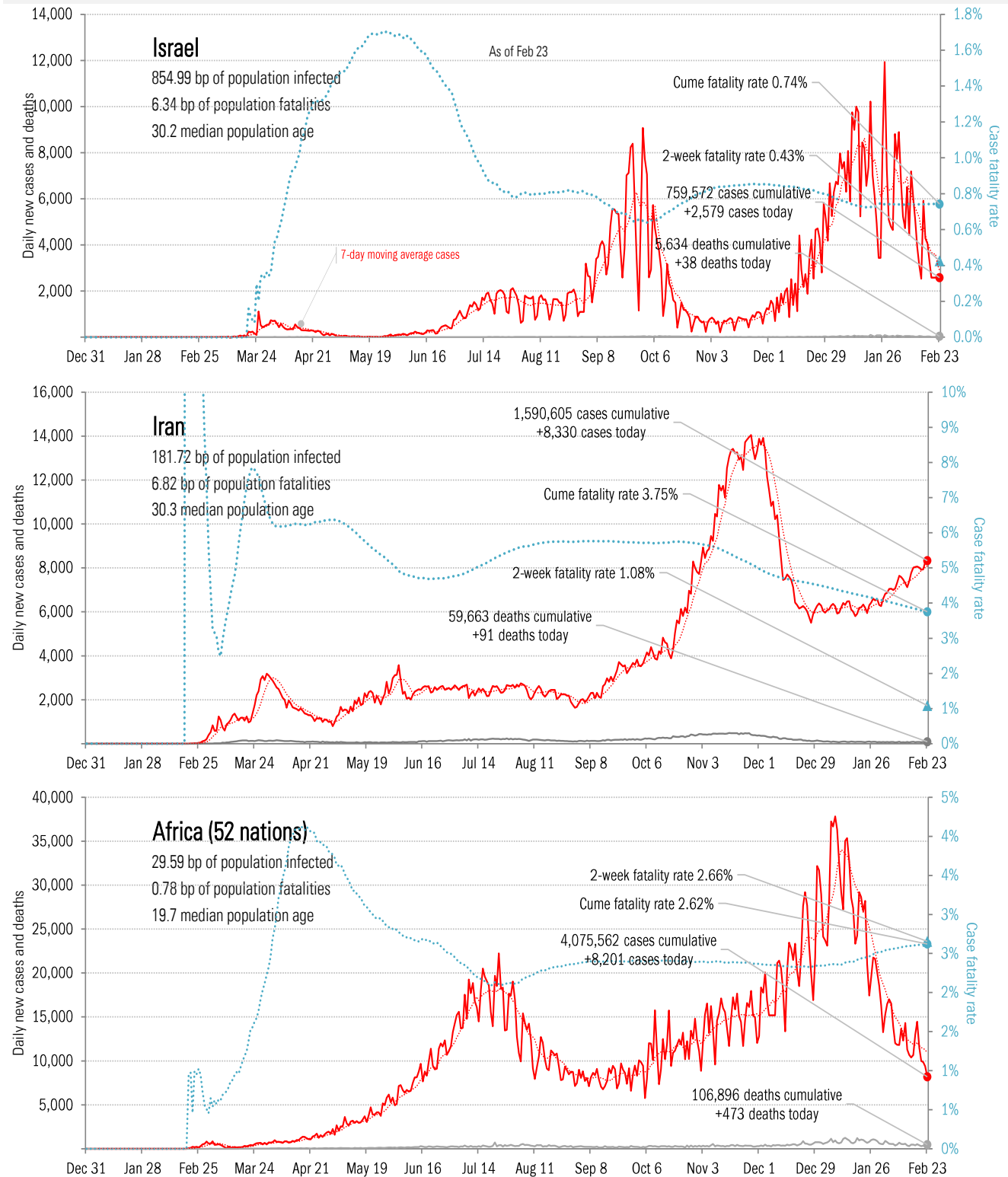
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



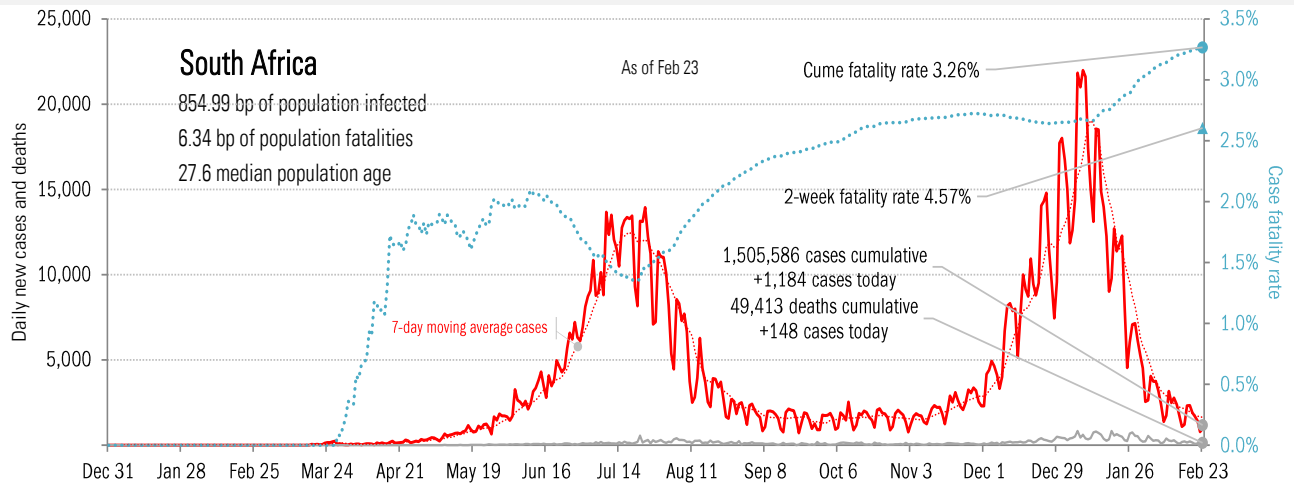
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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