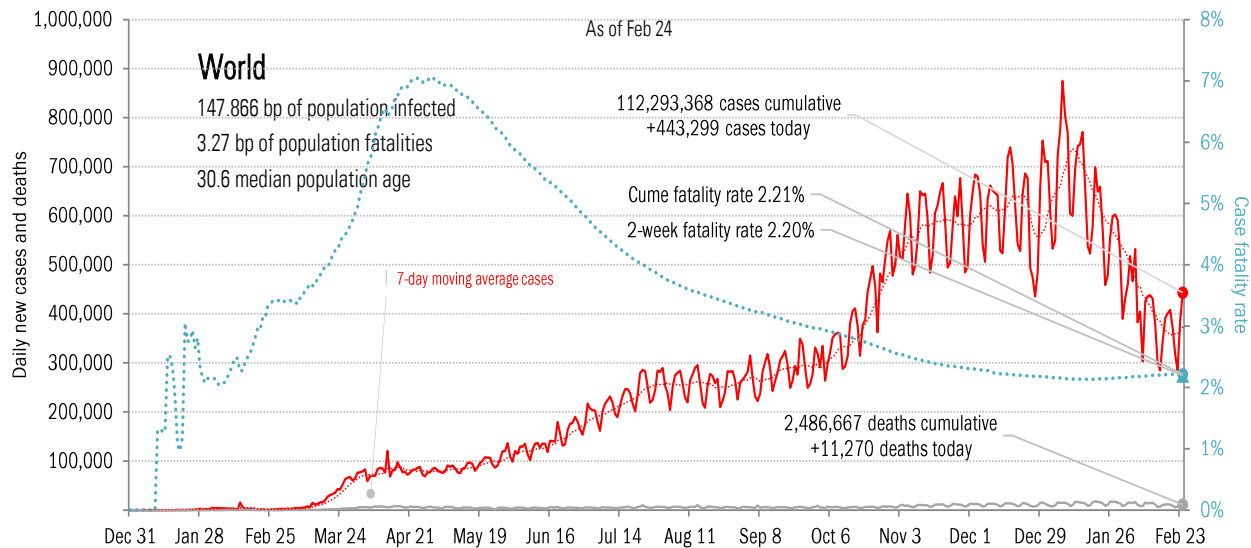
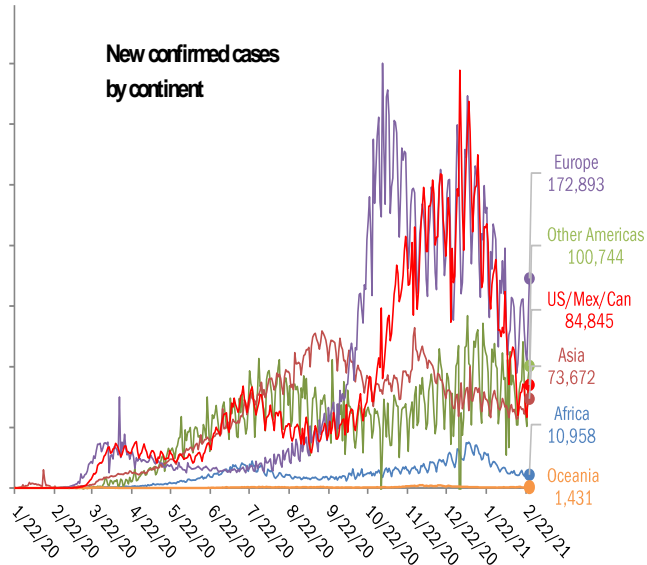


Data Insights: Covid-2019 Monitor

Thursday, February 25, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+ 73,258	United States	+ 2,447
Brazil	+ 66,588	Brazil	+ 1,428
France	+ 31,527	Mexico	+ 1,006
India	+ 16,738	Nepal	+ 619
Italy	+ 16,402	United Kingdom	+ 442
Czechia	+ 15,861	Spain	+ 389
Poland	+ 12,147	Germany	+ 385
Russia	+ 11,609	Russia	+ 378
Germany	+ 10,774	Poland	+ 372
United Kingdom	+ 9,942	Italy	+ 318
+264,846		+7,784	
World	+443,299	World	+ 11,270
Topten	60%	Topten	69%



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

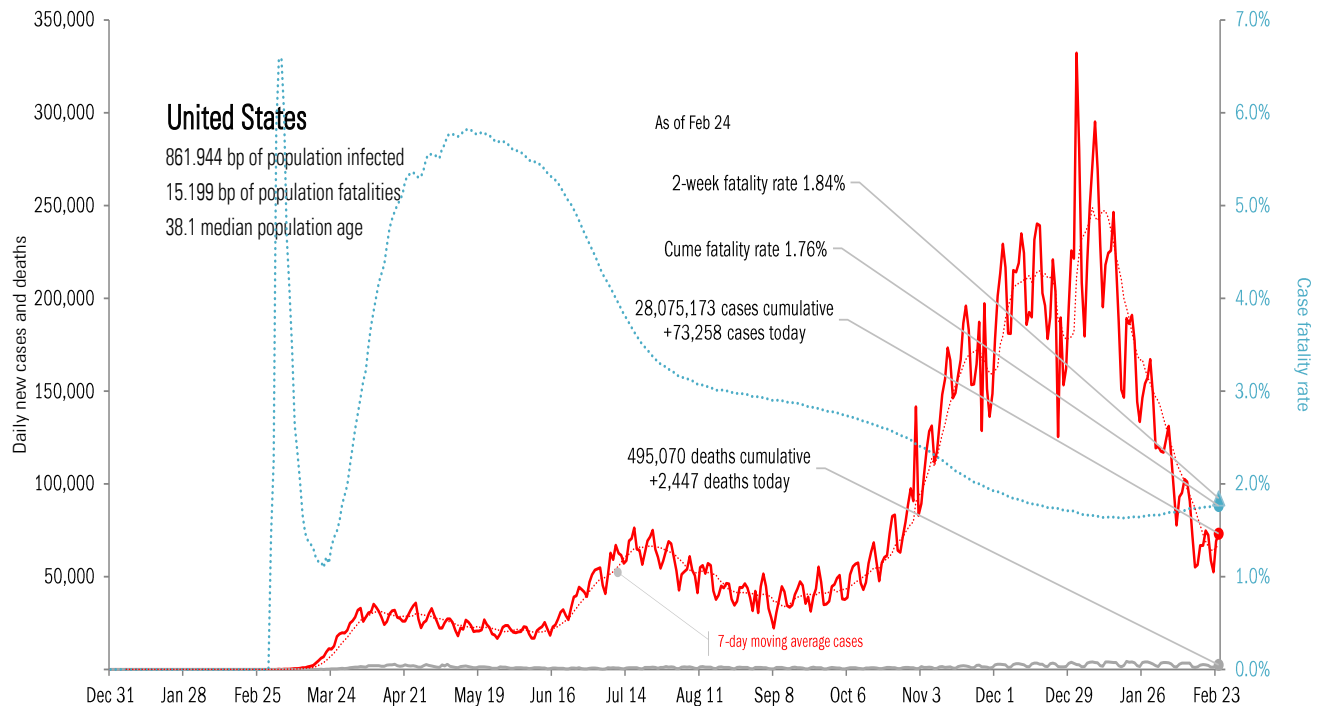
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
TX	+7,517		TX	+339		MO	+55		CA	3,455,361		CA	49,877		NY	89,995		R	98%	DC	88%
FL	+6,923		CA	+314		IL	+23		TX	2,613,792		TX	41,980		FL	79,675		AK	91%	AL	85%
NY	+6,189		VA	+149		MN	+23		FL	1,851,151		NY	38,135		NJ	63,252		SC	80%	TX	83%
CA	+5,303		GA	+137		NJ	+23		NY	1,597,774		FL	30,878		AZ	57,156		GA	80%	GA	83%
NC	+3,346		FL	+129		FR	+17		IL	1,179,342		PA	23,787		GA	55,394		MA	80%	OK	81%
GA	+3,240		NC	+109		IN	+13		GA	994,061		NJ	23,077		CH	49,788		FL	80%	MO	80%
NJ	+3,119		NY	+104		TN	+13		CH	959,995		IL	22,575		AL	45,250		DC	78%	FL	80%
PA	+2,786		NJ	+99		MT	+12		PA	920,634		GA	17,064		IN	42,635		CT	78%	MS	79%
SC	+2,132		AL	+84		NE	+12		NC	849,630		CH	17,045		MD	34,672		PA	78%	DE	79%
MA	+2,102		KS	+81		AL	+11		AZ	811,968		MI	16,389		WI	25,893		MD	77%	NM	78%
+42,657			+1,545			+202			15,233,708			280,807			543,710						
All states	+73,258		+2,447			-940			All states	28,075,173		495,070			861,784			All states	72%		72%
Top ten	58%		63%			-21%			Top ten	54%		57%			63%			Median	71%		70%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TX	-4,292	MO	-161	TX	-326	TX	+14,267
CH	-933	AZ	-105	NY	-274	PA	+11,686
GA	-540	MI	-28	FL	-144	LA	+11,629
LA	-527	IN	-26	VA	-138	NE	+11,249
NY	-465	FL	-25	MI	-86	CH	+3,312



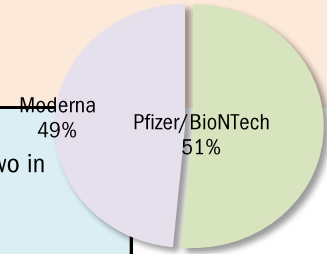
Source: [Covid Tracking Project](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US

US overall	Over last day
88.67 million doses distributed	+6.55 million/day
66.46 million doses administered	+1.43 million/day
45.24 million persons with one shot	+0.69 million/day
20.61 million persons with two shots	+0.72 million/day
6.72 million shots long-term care residents/staff	+0.10 million/day

75.0% of distributed doses administered

13.5% of US pop 1 shot 6.2% 2 shots
 100% of LTC 1 shot 49.0% 2 shots



At today's dosing pace,
every American will have two in
412 days
by Apr 11, 2022

US will achieve herd immunity in
189 days
by Sep 1, 2021

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

AK
33.3%

ME
22.7%

WI
22.0%

VT
23.2%

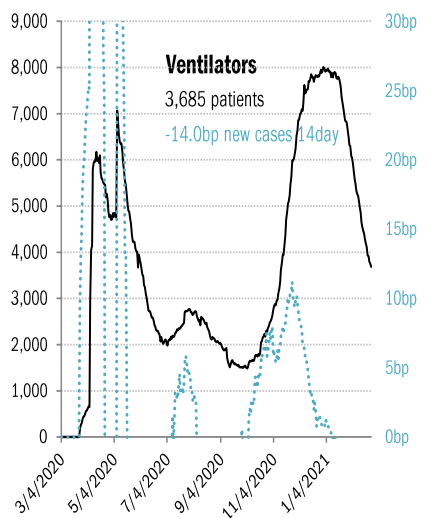
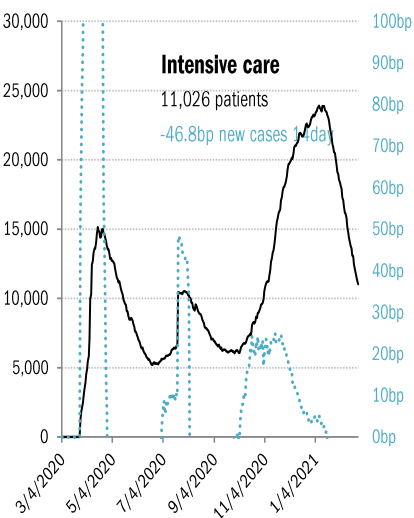
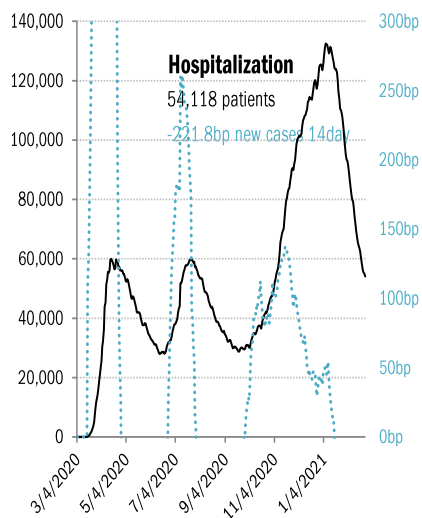
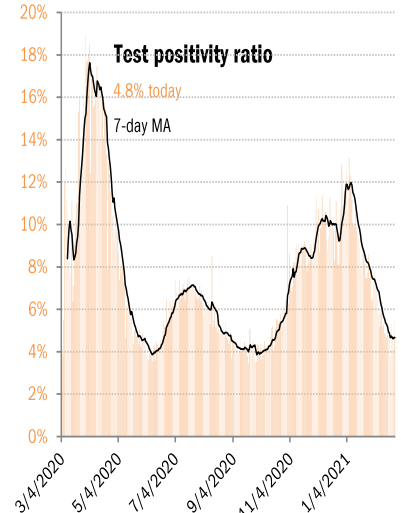
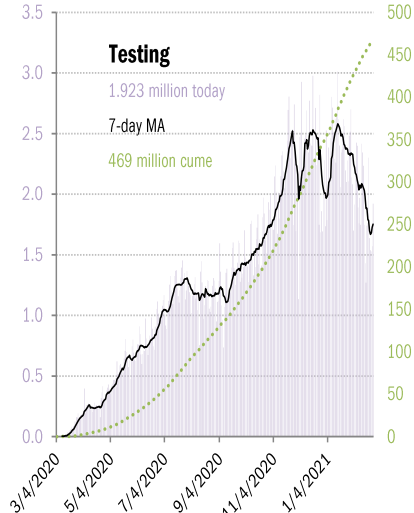
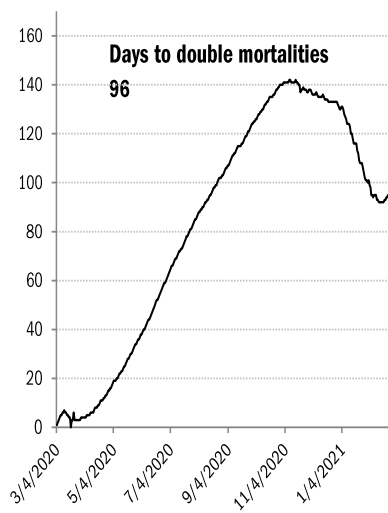
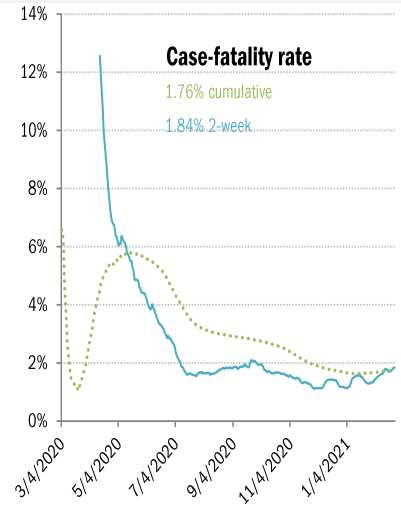
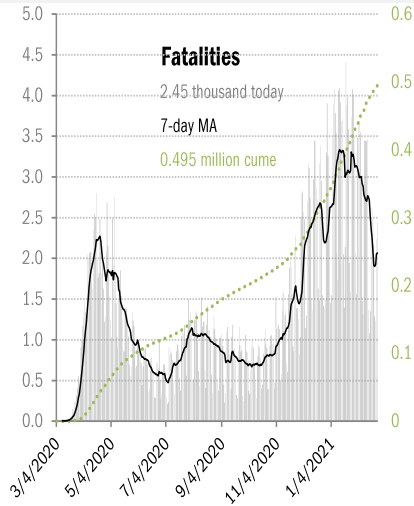
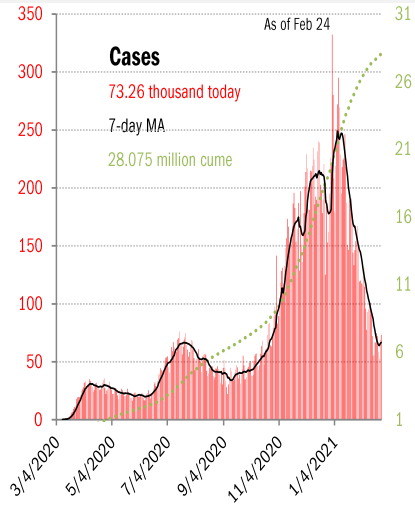
NH
20.8%

WA	ID	MT	ND	MN	IL	MI	NY	MA		
19.9%	19.4%	23.1%	26.2%	21.1%	19.4%	20.5%	19.6%	22.2%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
20.5%	19.7%	23.6%	27.4%	19.7%	20.2%	19.6%	18.9%	20.3%	25.6%	20.6%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
19.9%	19.6%	22.0%	21.0%	18.5%	19.6%	26.5%	21.1%	19.2%	19.5%	
AZ	NM	KS	AR	TN	NC	SC	DC			
21.4%	29.5%	18.2%	18.4%	17.2%	20.6%	18.9%	24.1%			
OK	LA	MS	AL	GA						
23.6%	19.8%	17.7%	17.1%	18.1%						
HI	TX	FL	PR							
24.0%	17.0%	21.0%	15.5%							

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

US deep-dive

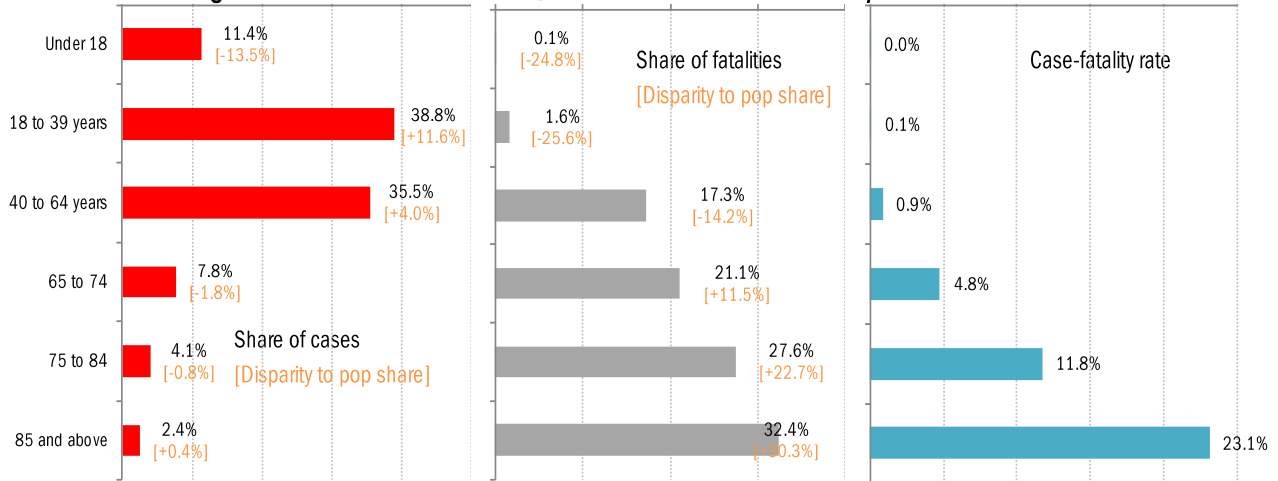
National and state-by-state data do not line up because of different sources



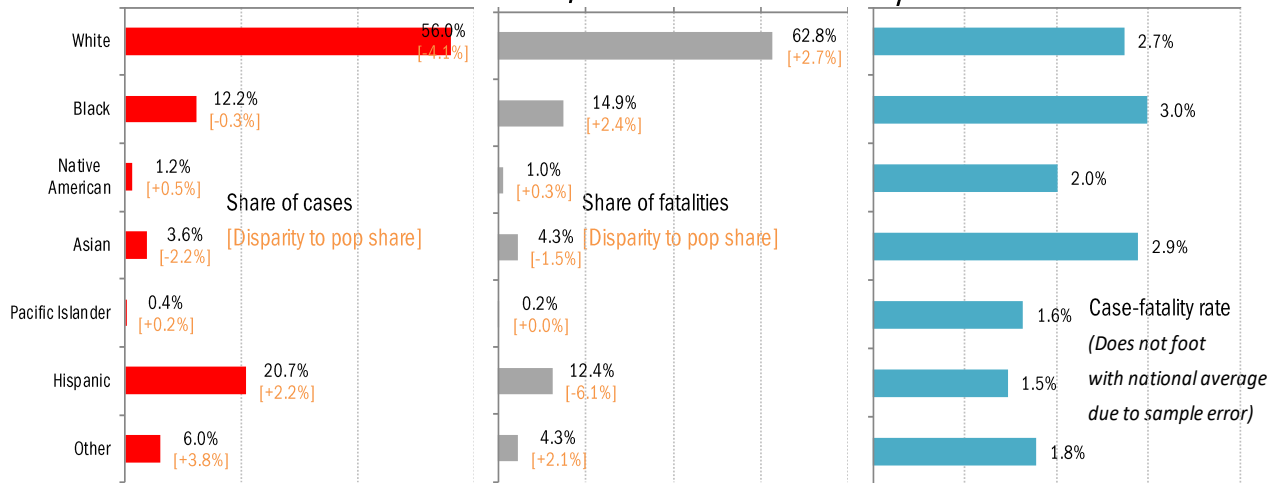
Source: [Covid Tracking Project](https://covidtracking.com), TrendMacro calculations

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

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

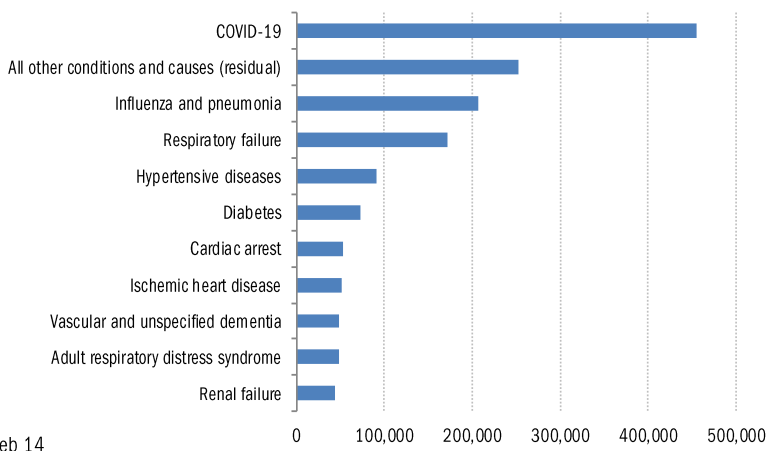


Racial distribution of US cases, fatalities and case-fatality rates



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

[NASA Sent a Secret Message to Mars. Meet the People Who Decoded It.](#)

Kenneth Chang
New York Times
February 24, 2021

[New analyses show Johnson & Johnson's one-dose vaccine works well.](#)

Carl Zimmer, Noah Weiland and Sharon LaFraniere
New York Times
February 24, 2021

[A Recall for Newsom in California? Talk Grows as Governors Come Under Attack](#)

Shawn Hubler
New York Times
February 24, 2021

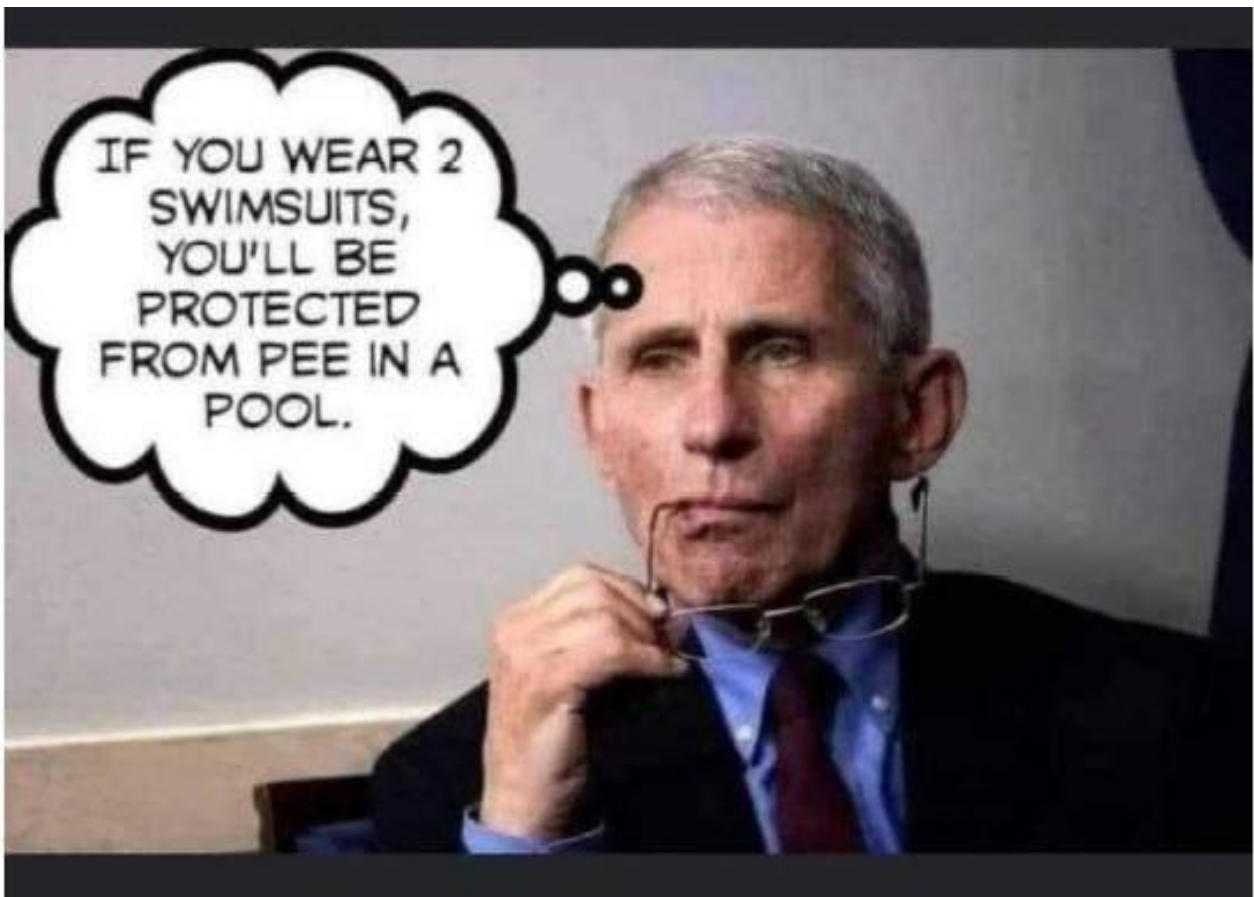
[When Could the United States Reach Herd Immunity? It's Complicated.](#)

Matthew Conlen and Charlie Smart
New York Times
February 20, 2021

[Does the Vaccine Stop Transmission?](#)

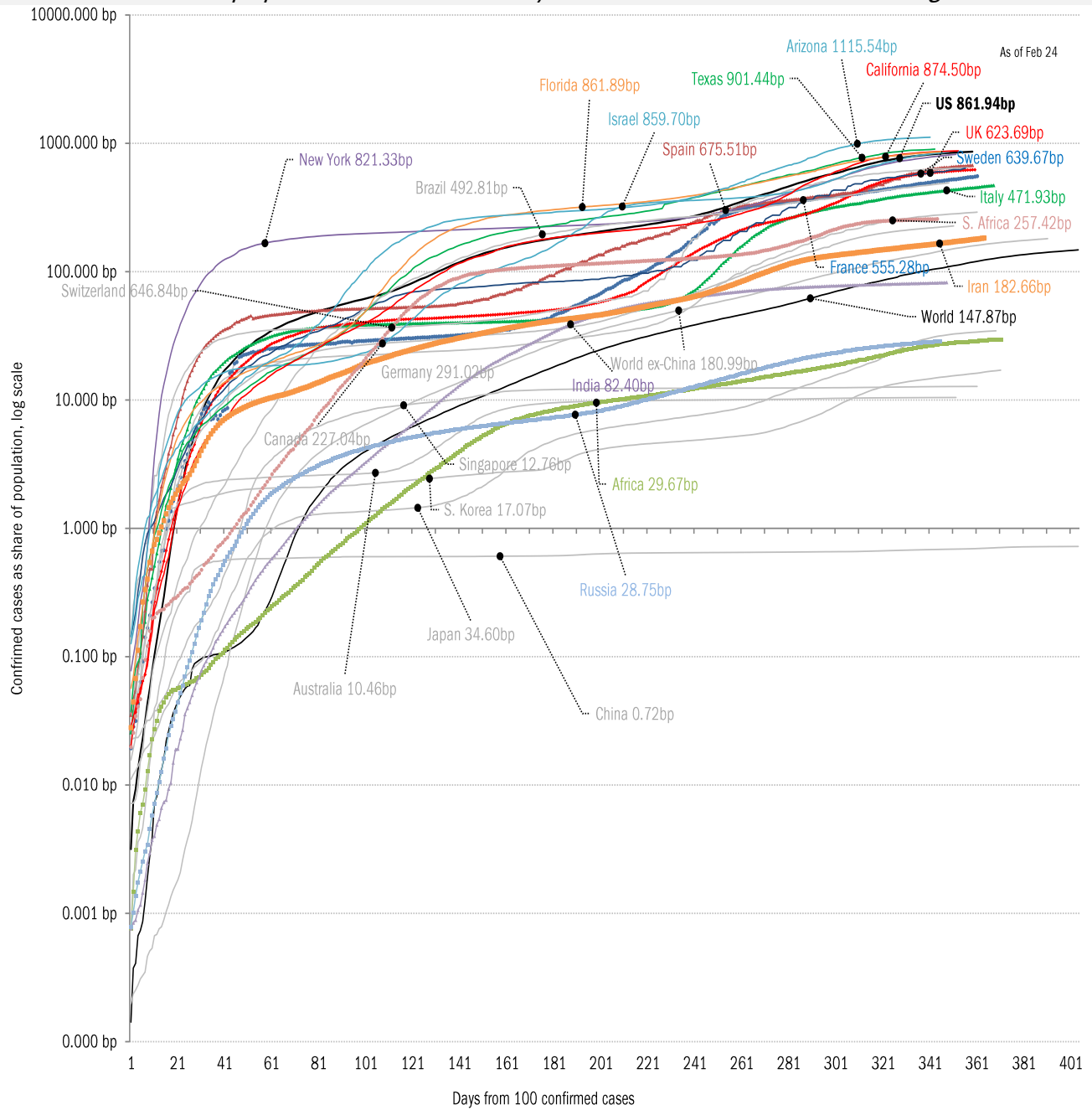
Angela L. Rasmussen
New York Times
February 23, 2021

Meme of day



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

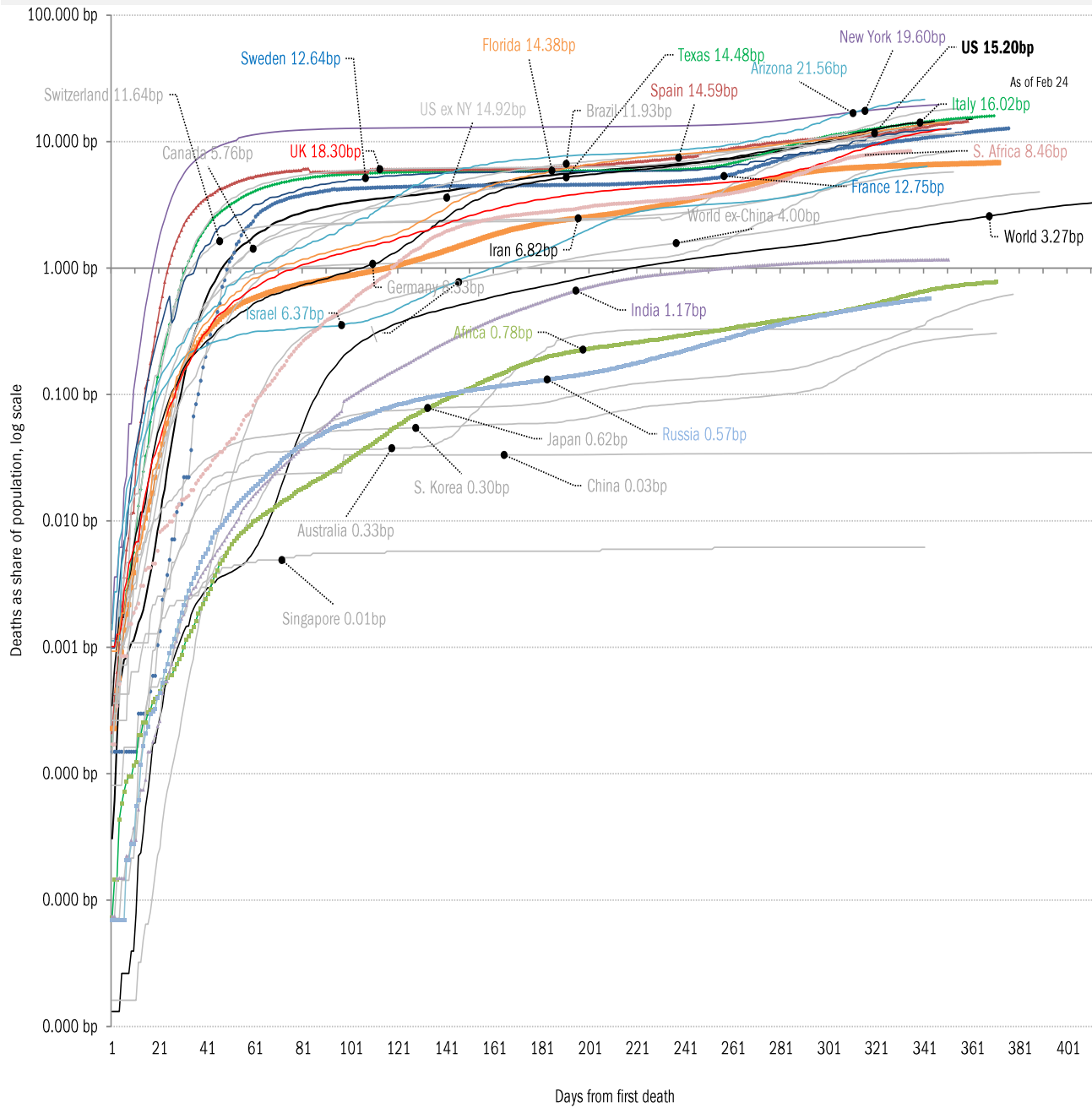
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

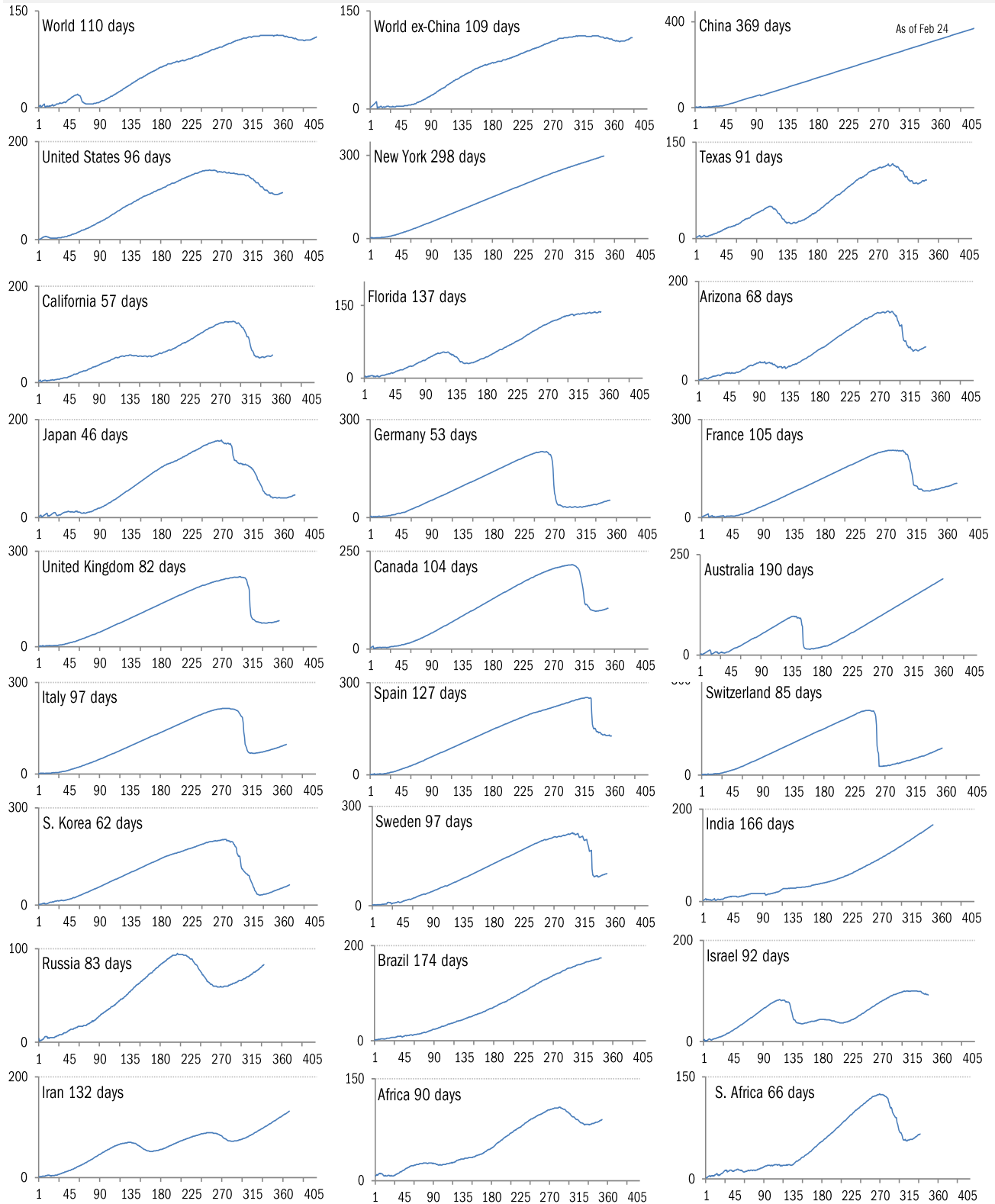


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

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

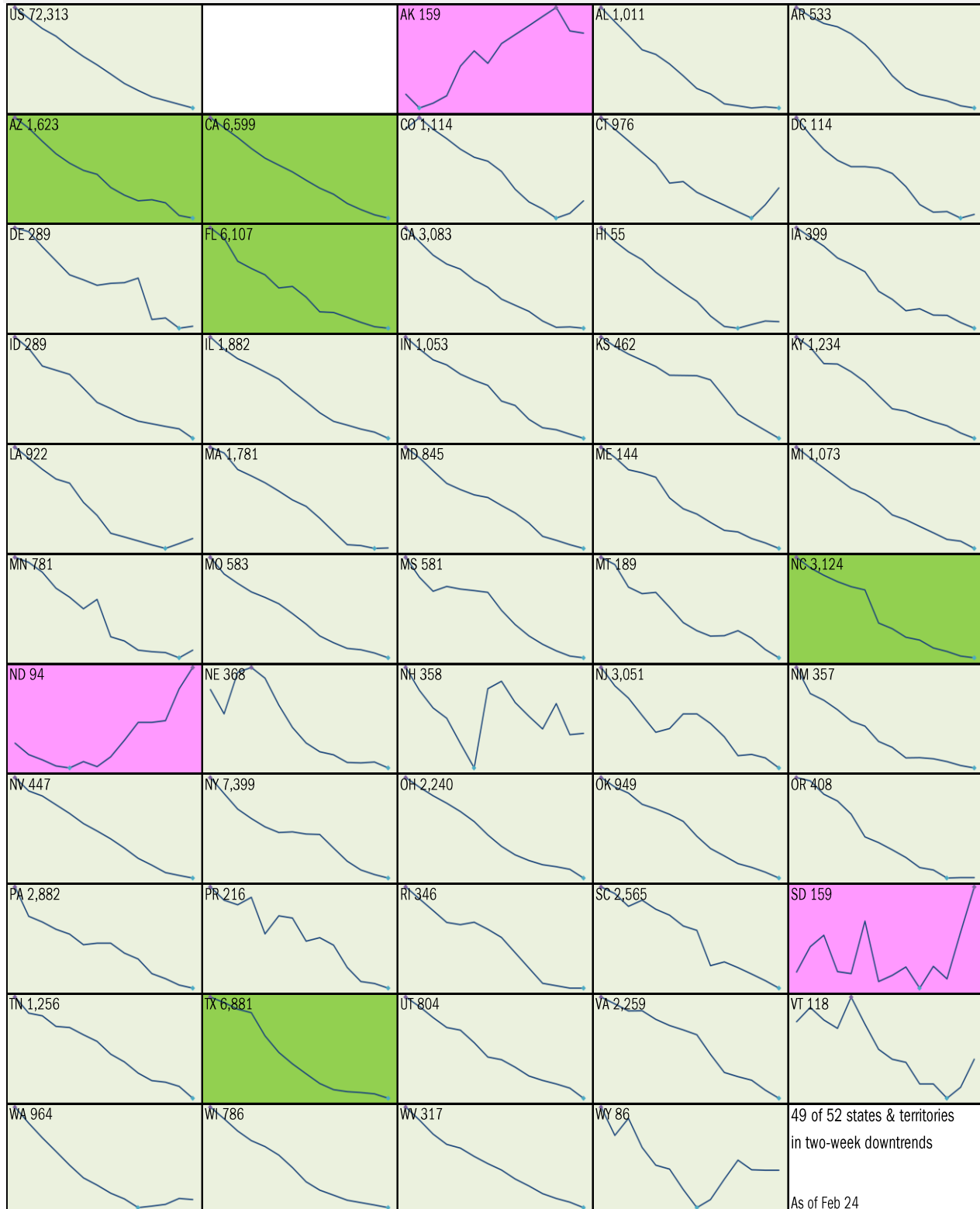


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

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

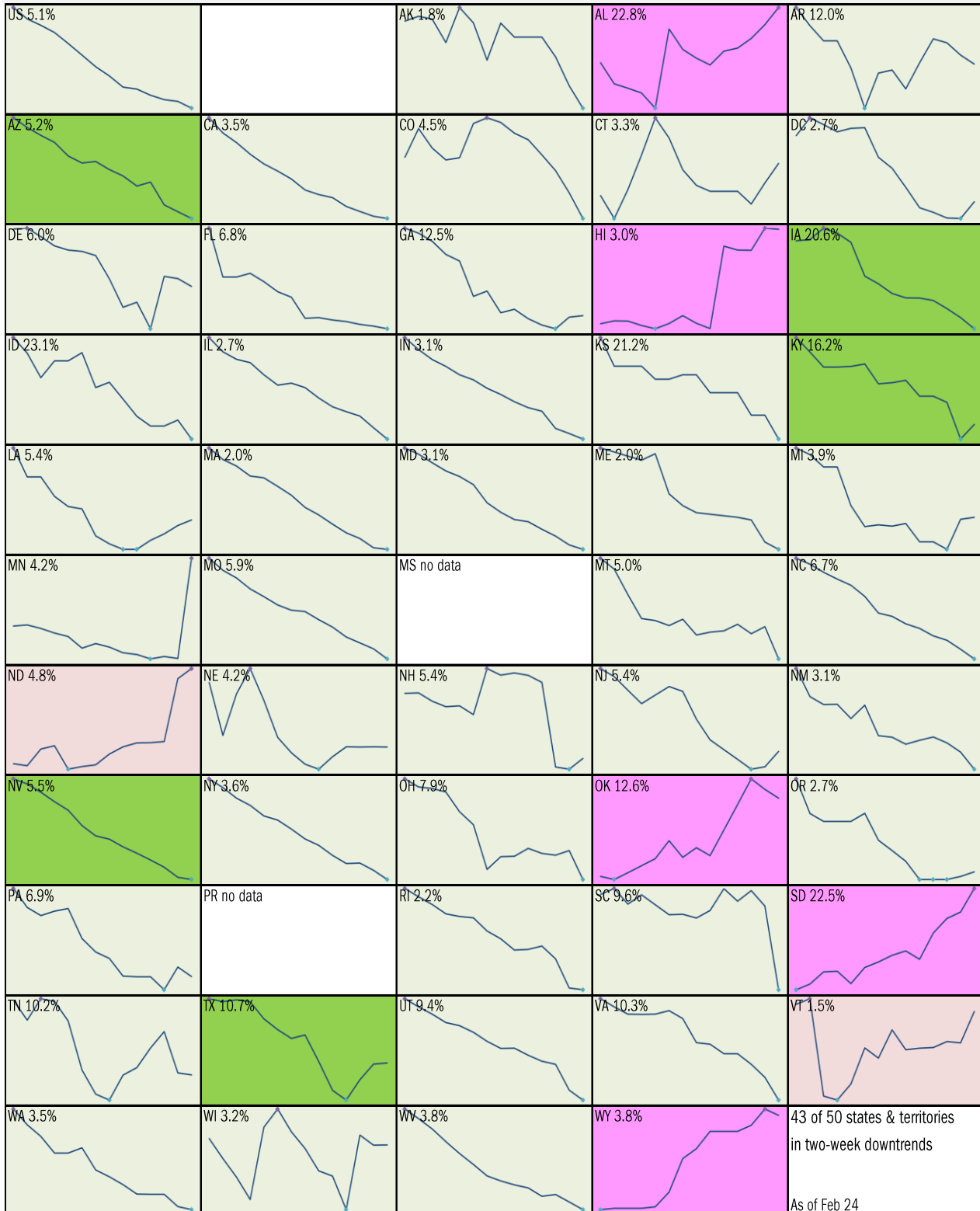


Source: [Covid Tracking Project](#), TrendMacro calculations

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

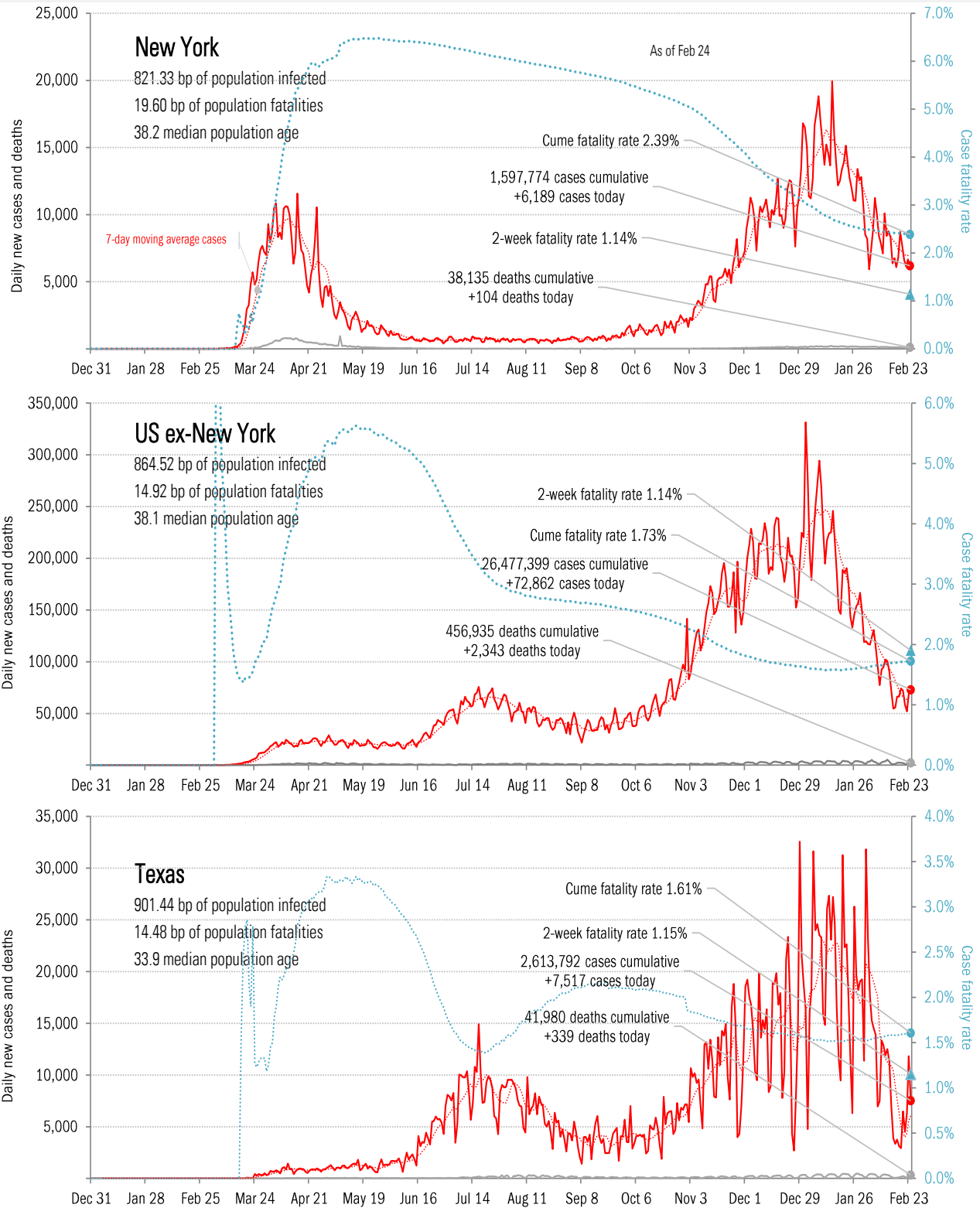
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



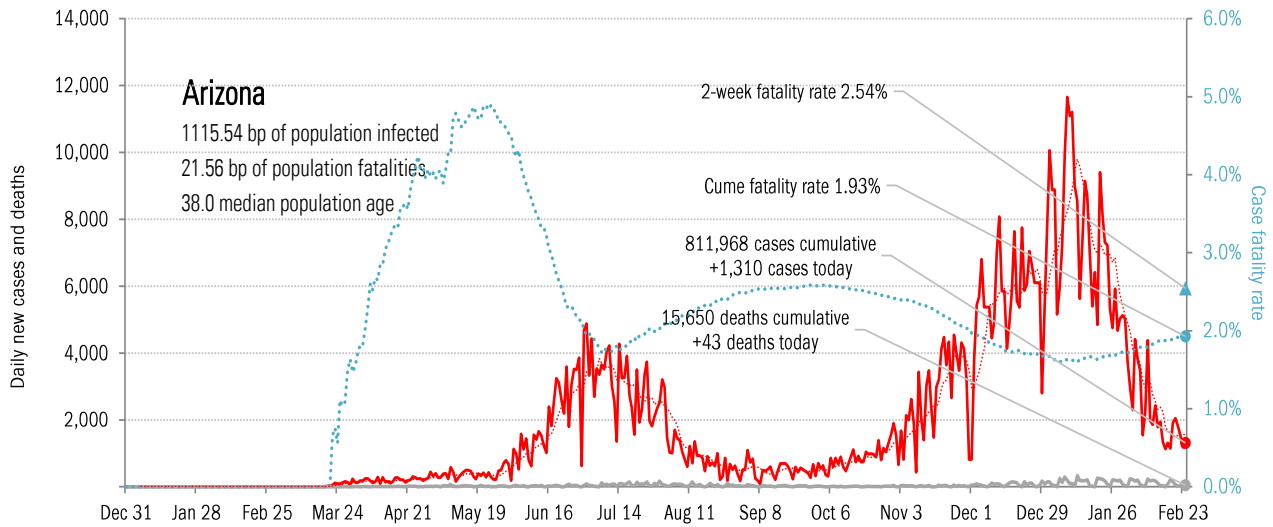
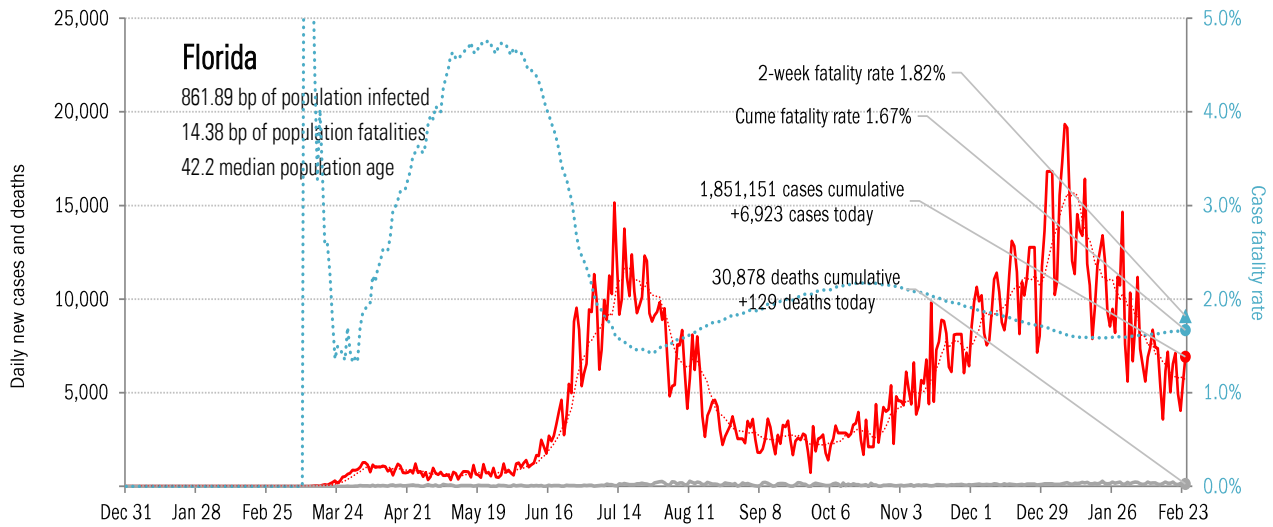
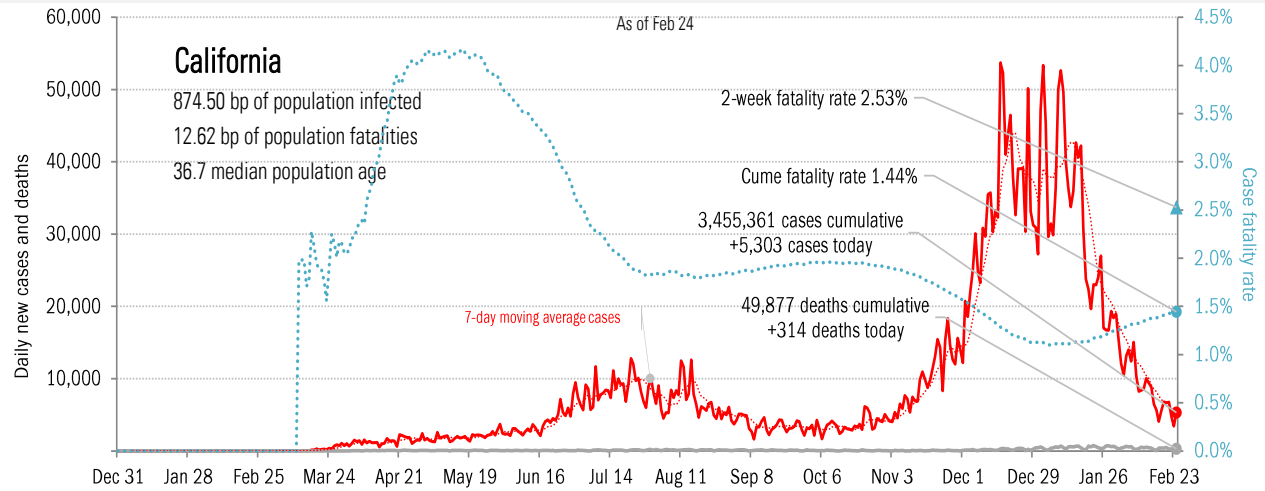
Source: [Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



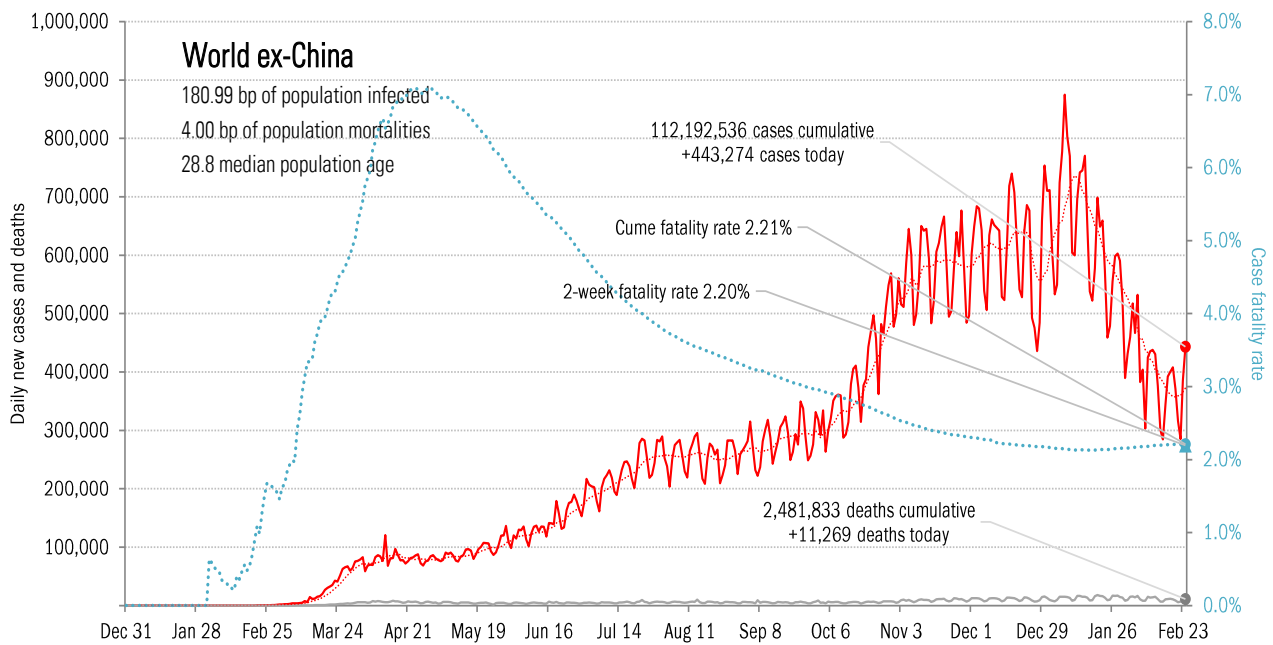
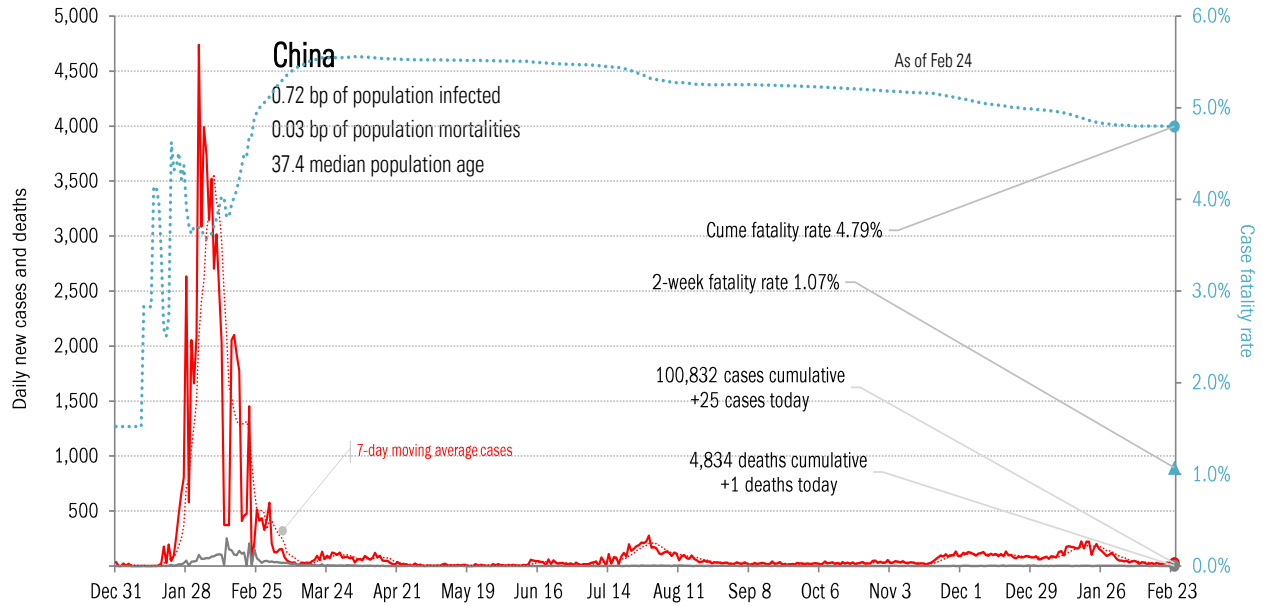
Source: [Covid Tracking Project](#), TrendMacro calculations

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



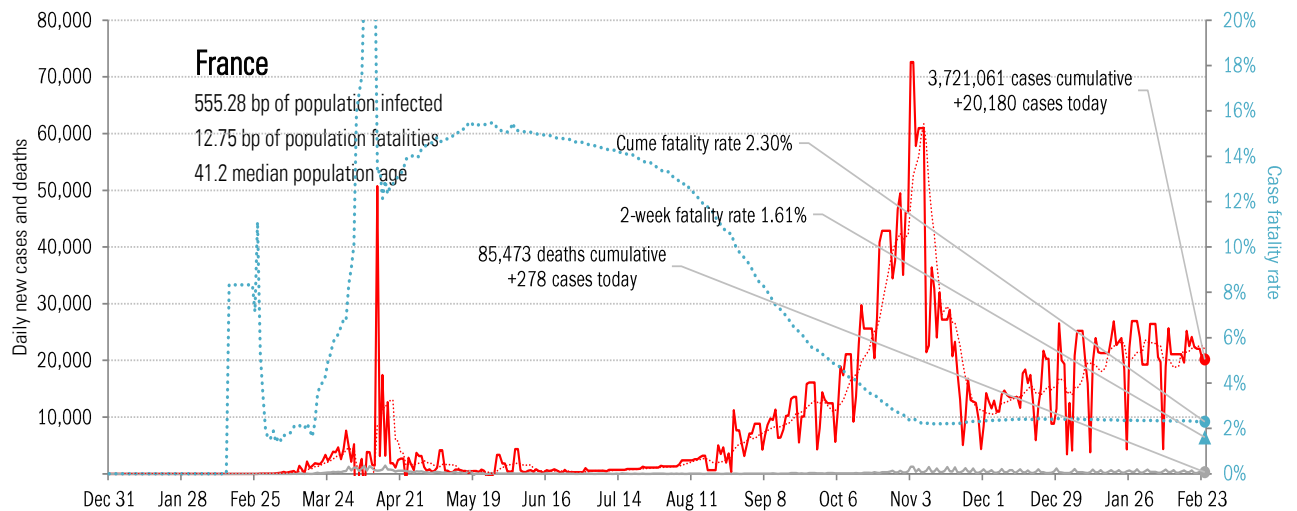
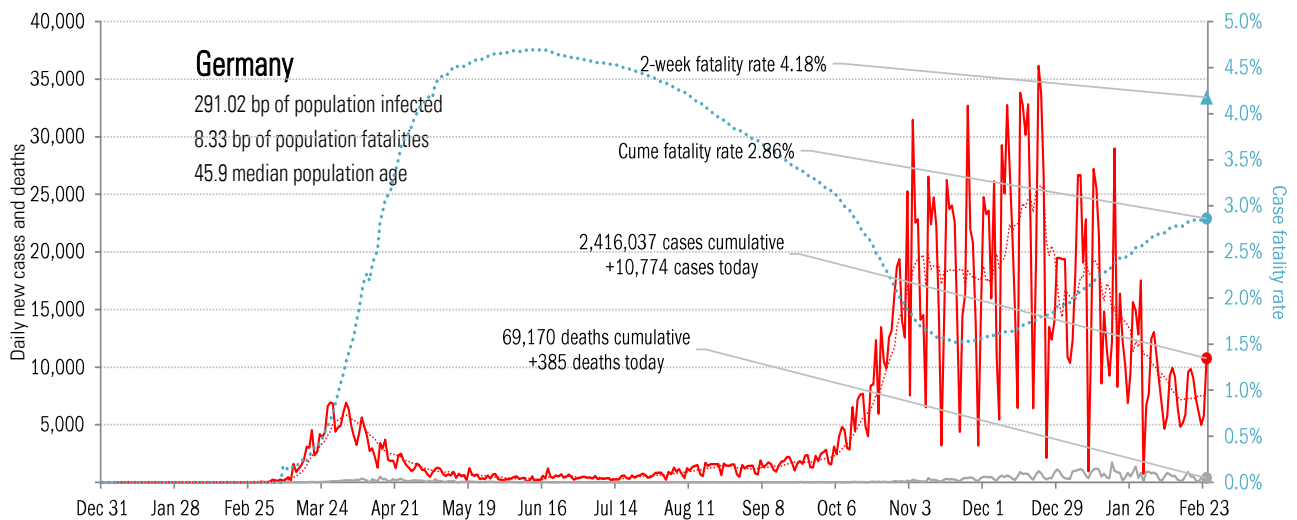
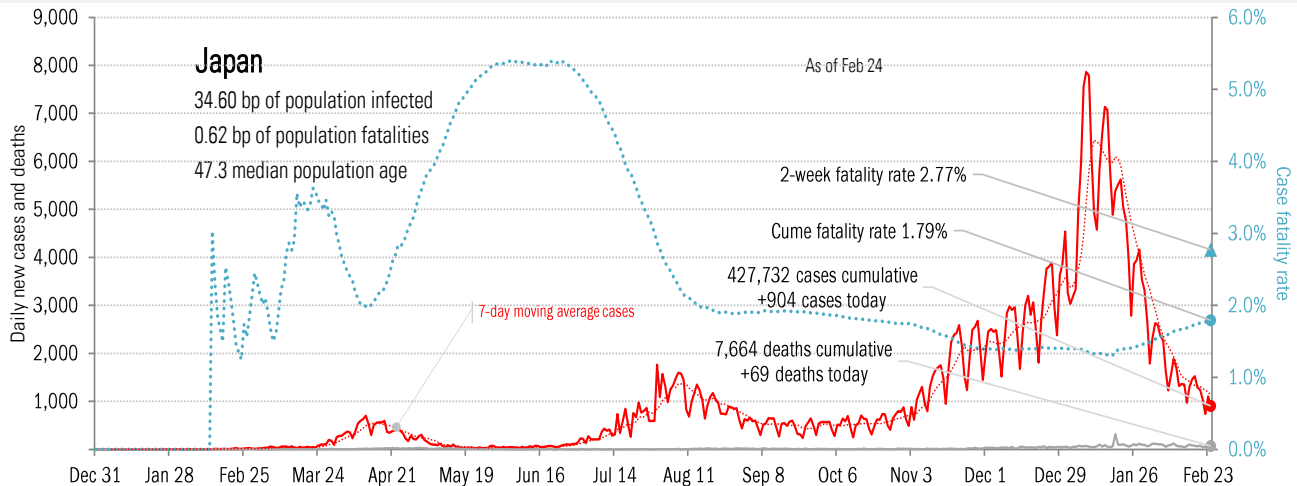
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



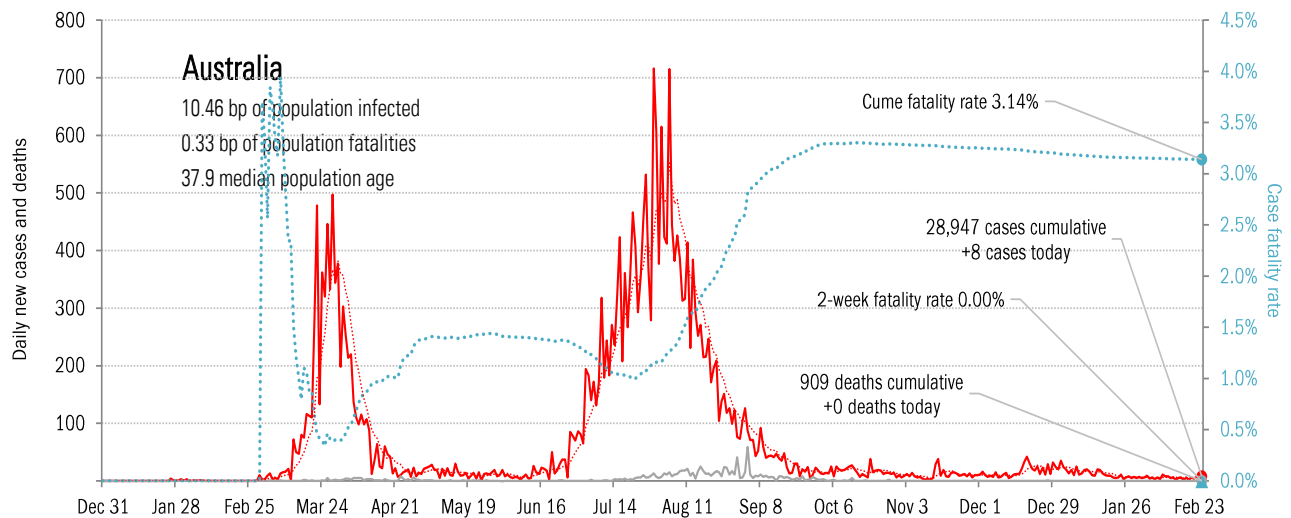
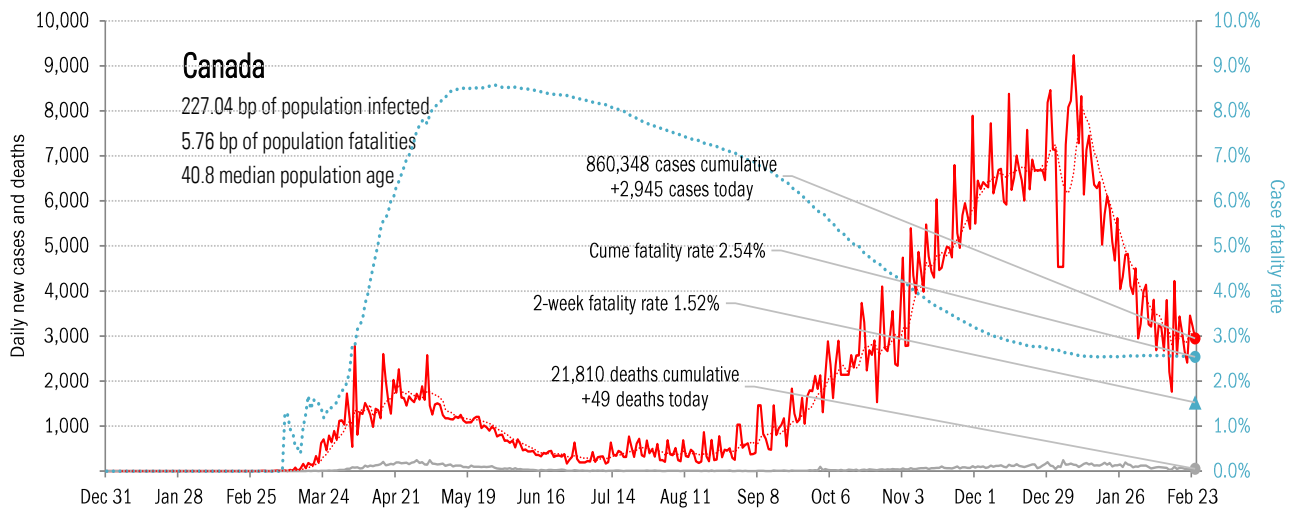
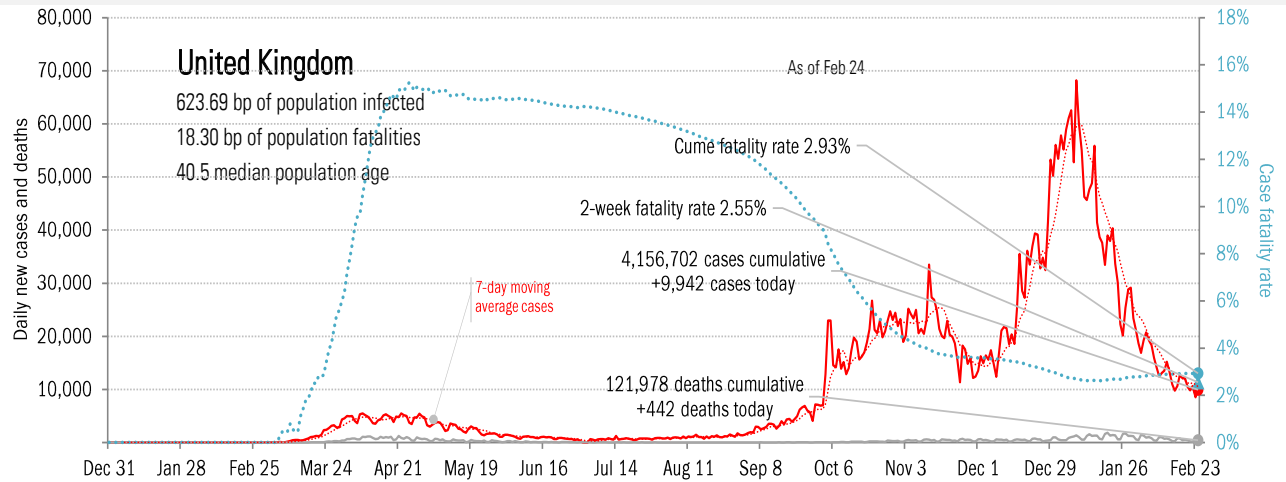
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



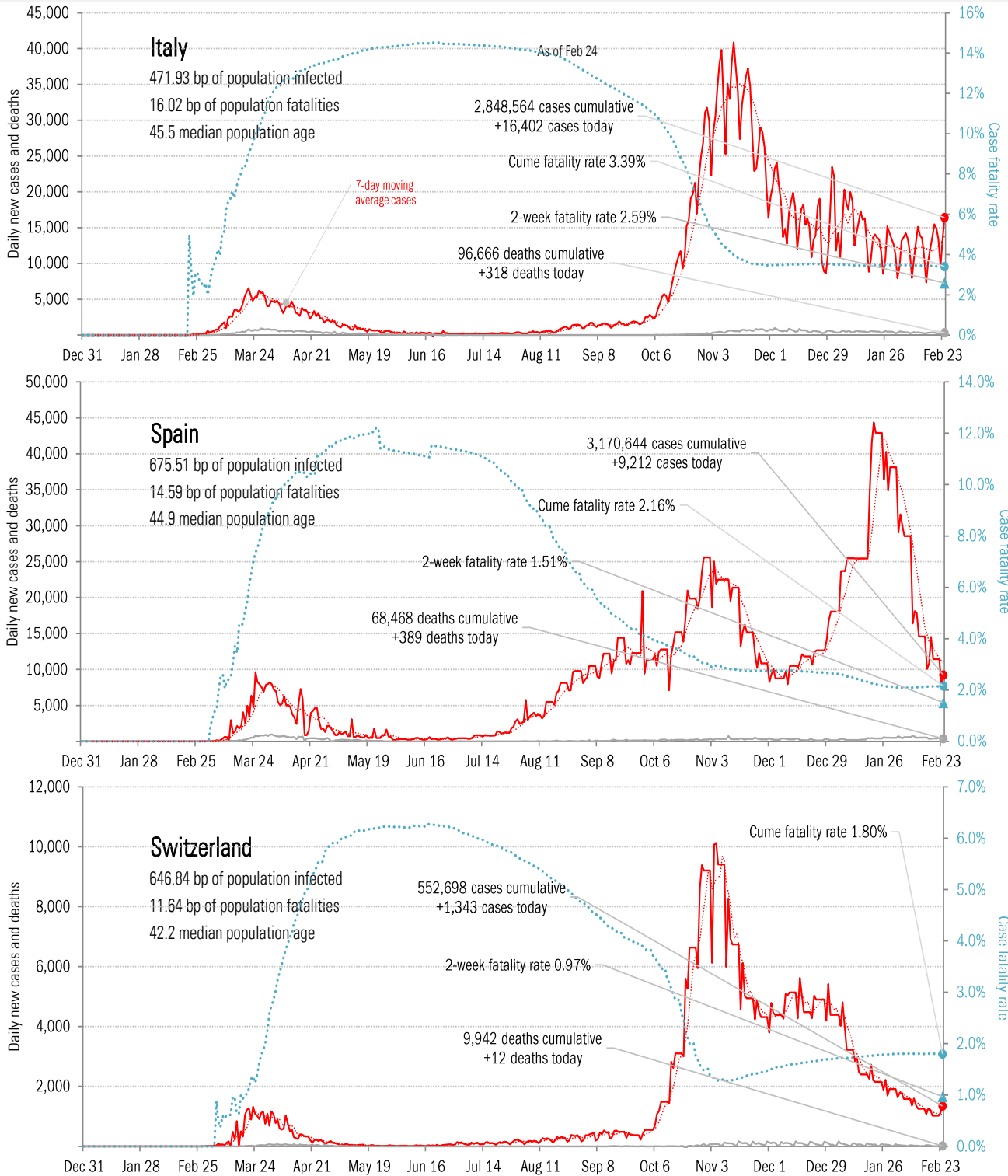
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



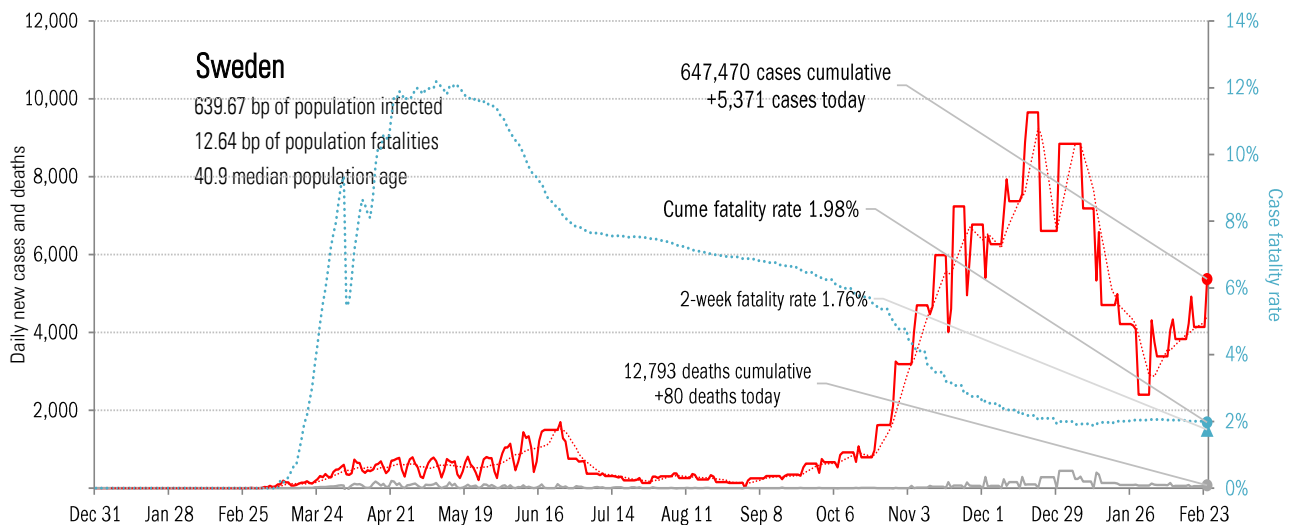
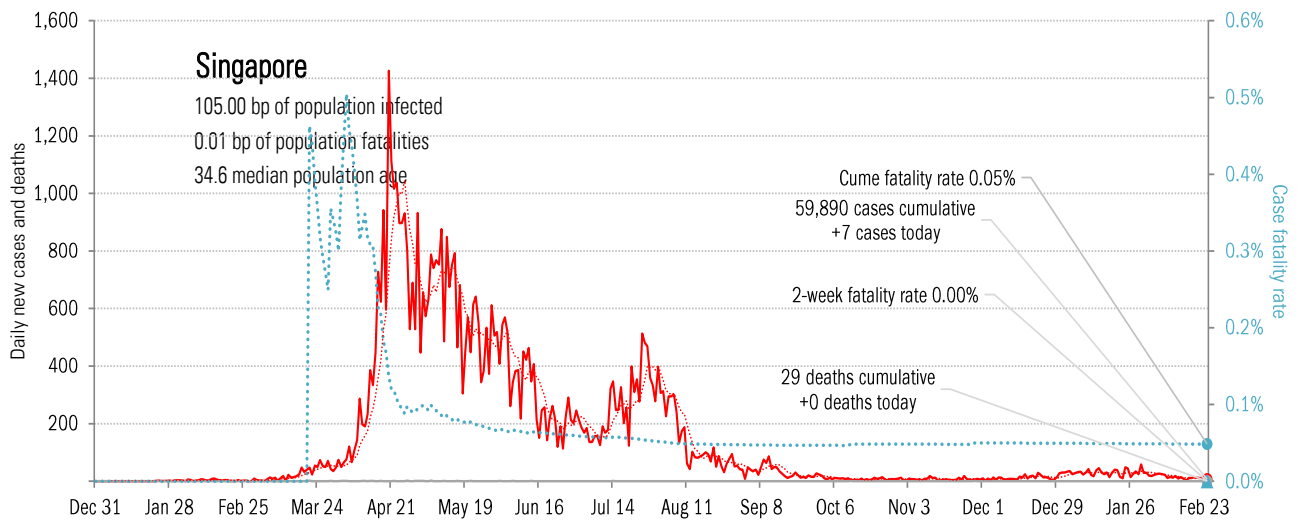
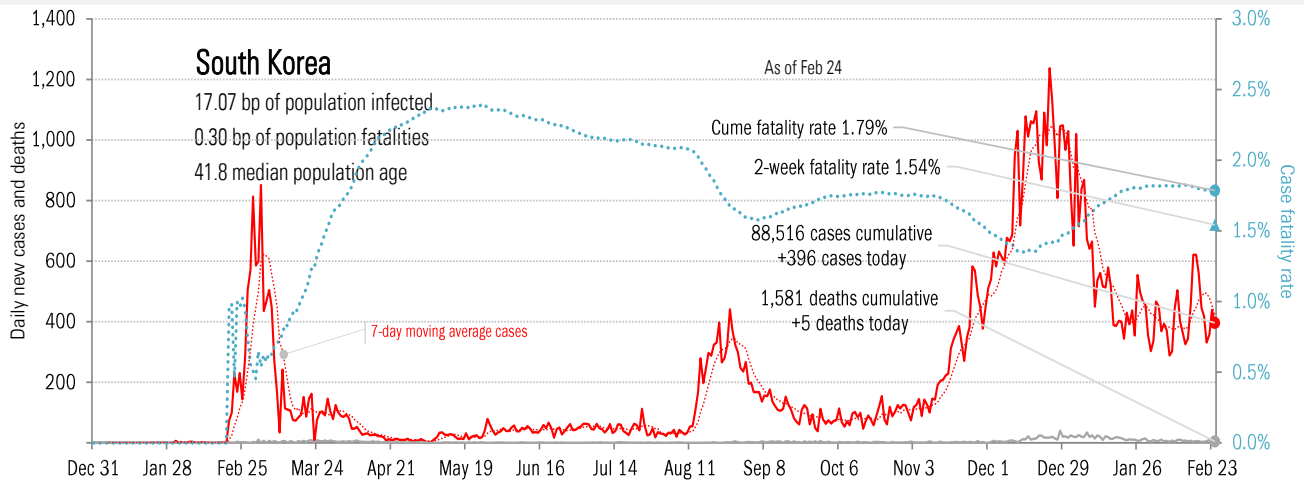
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



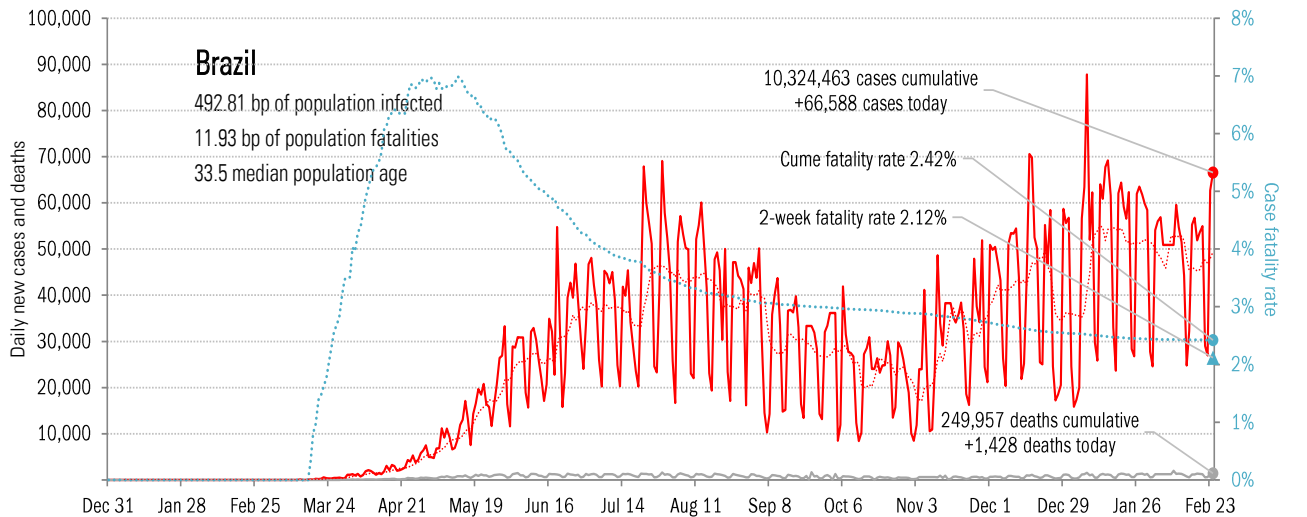
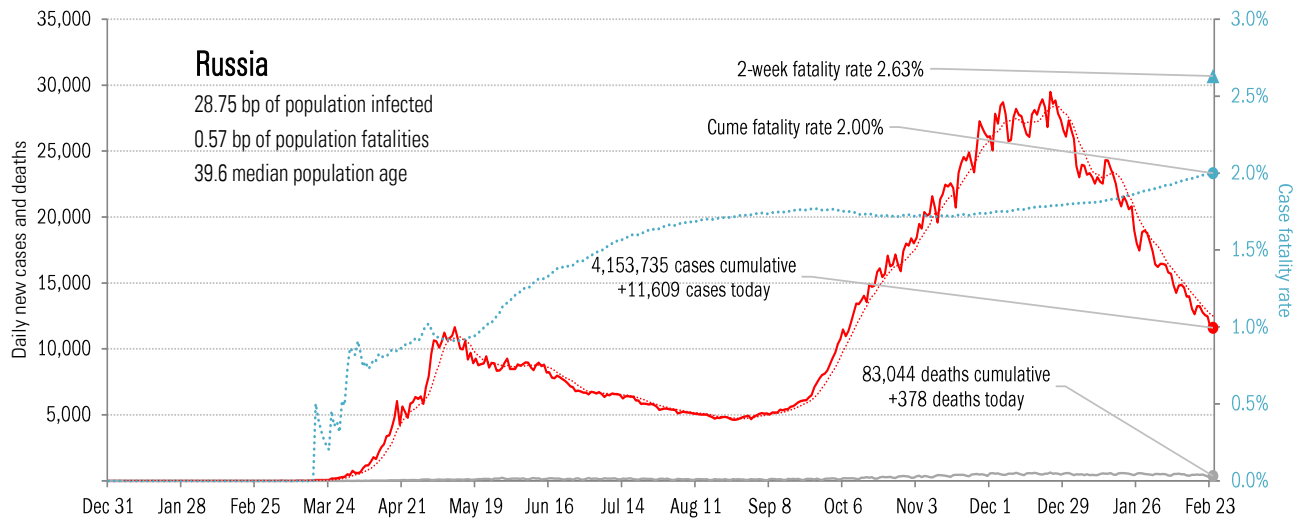
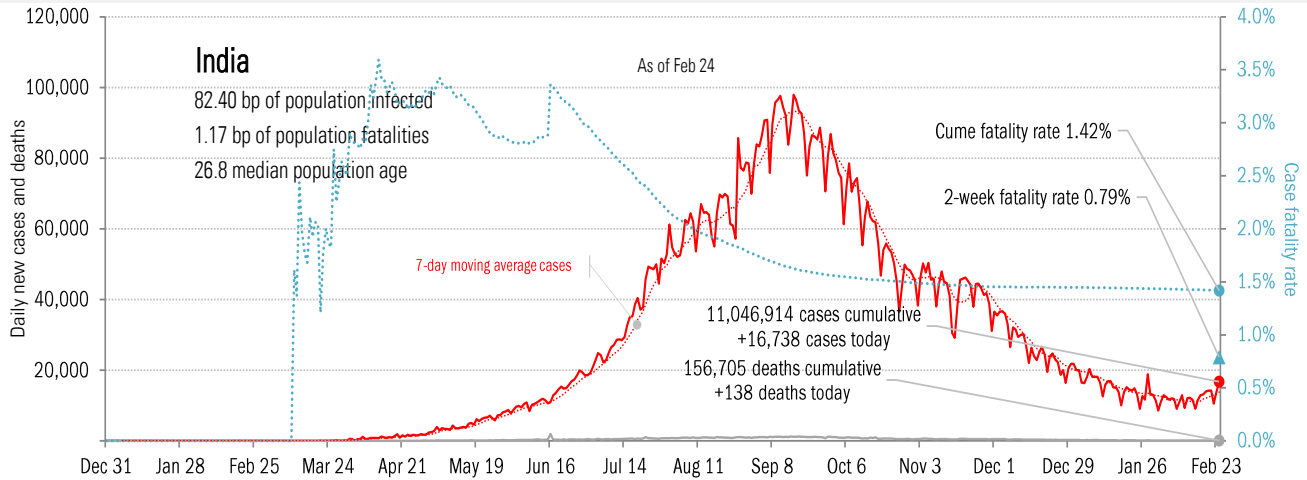
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



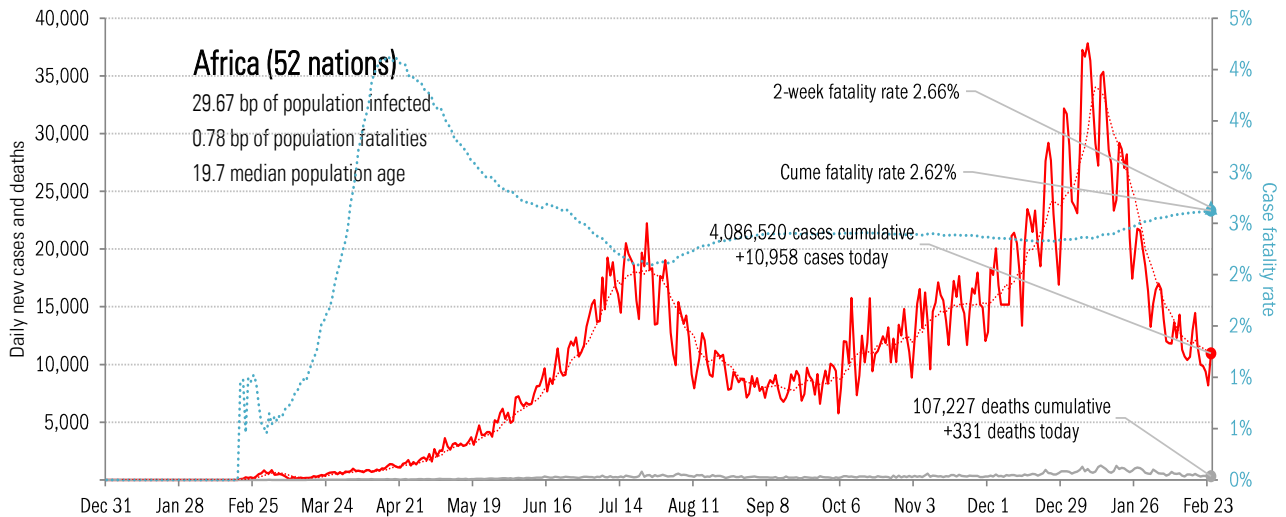
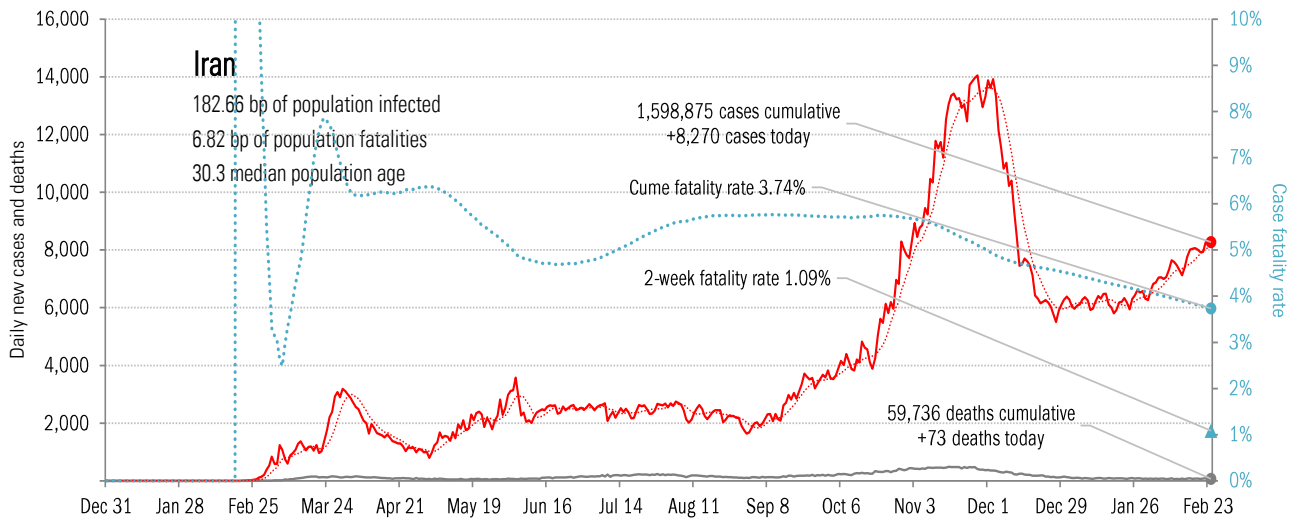
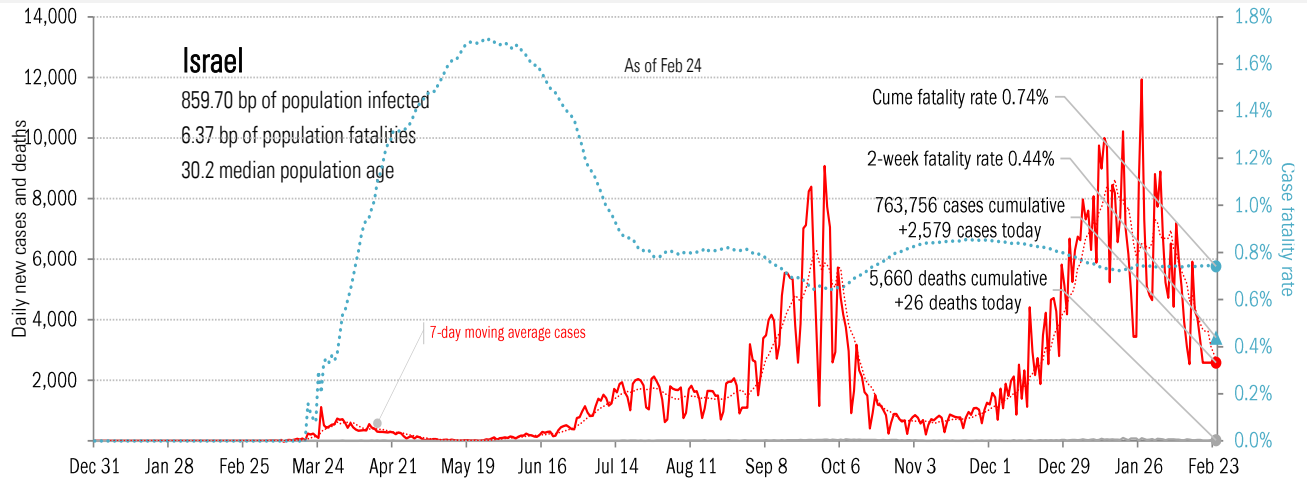
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



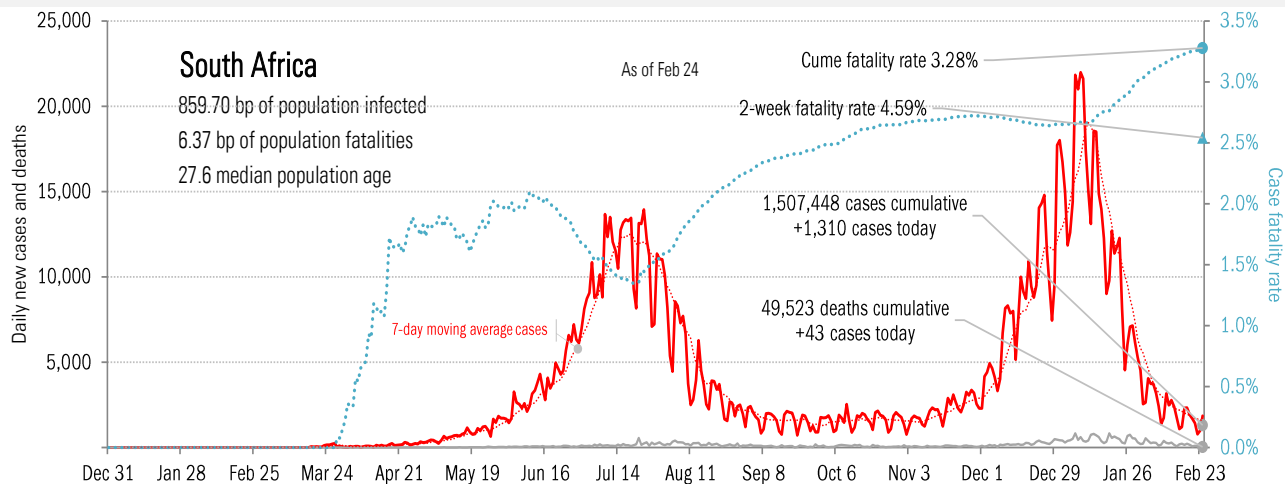
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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