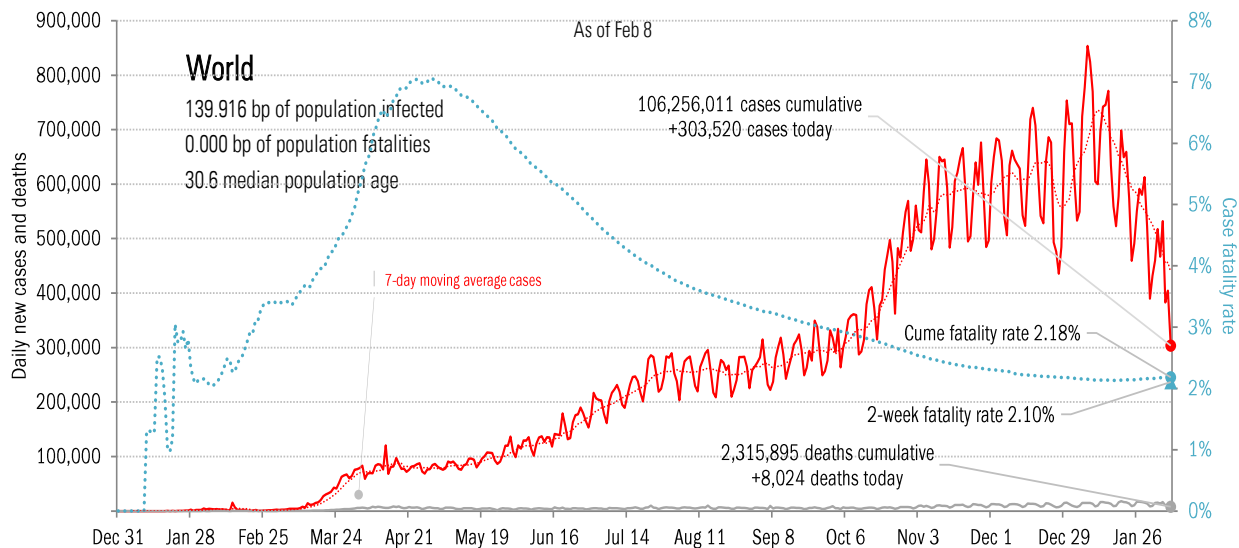
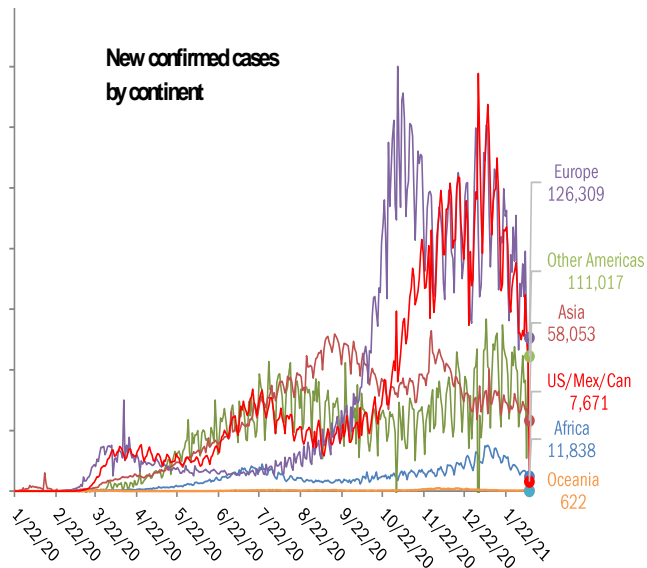


Data Insights: Covid-2019 Monitor

Tuesday, February 9, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+77,737	United States	+1,309
Spain	+47,095	Spain	+909
Russia	+15,701	Mexico	+531
United Kingdom	+14,138	Germany	+483
India	+9,110	France	+460
Indonesia	+8,242	Russia	+398
Turkey	+8,103	United Kingdom	+333
Italy	+7,969	Italy	+307
Iran	+7,321	Colombia	+297
Argentina	+5,154	Argentina	+227
+200,570		+5,254	
World	+303,520	World	+8,024
Top ten	66%	Top ten	65%



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

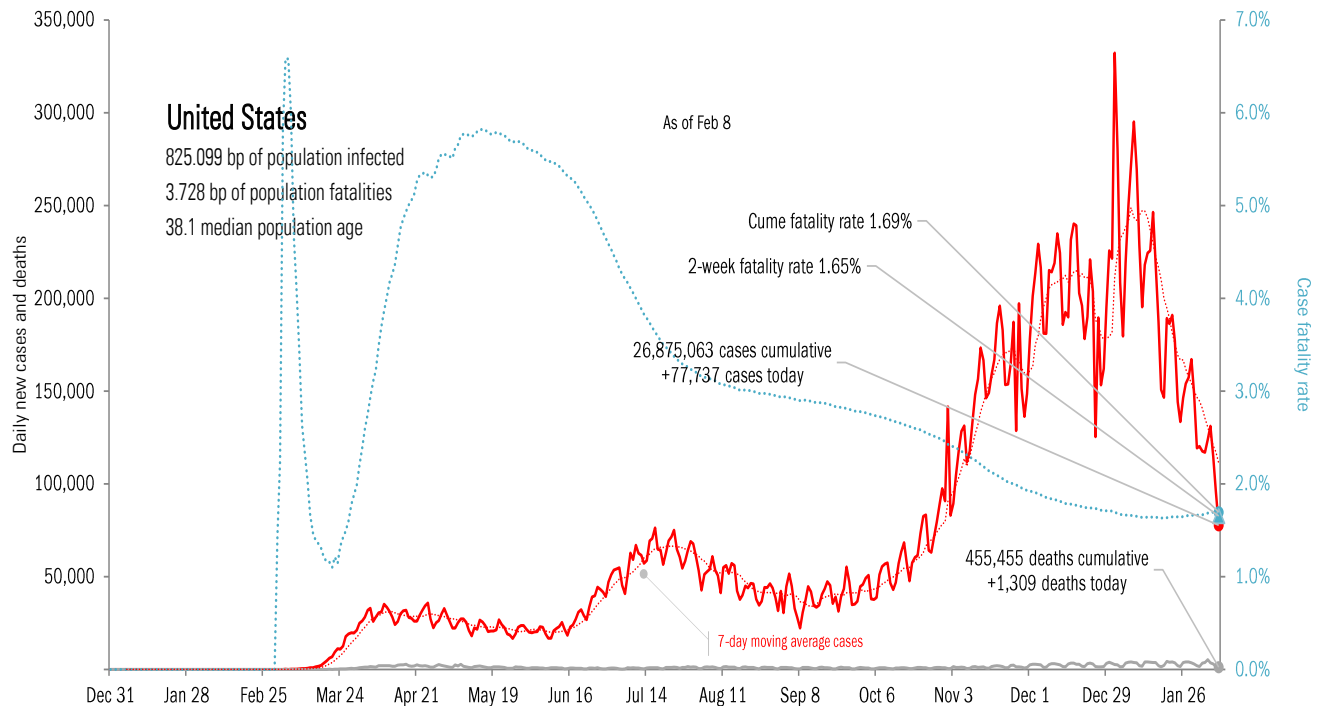
The ten worst US states

New cases			New Deaths			New in hospital			Cumulative cases			Cumulative deaths			Cumulative in hospital			Hospital use		ICU use	
CA	+10,414		CA	+208		NY	+67		CA	3,346,340		CA	44,150		NY	89,995		RI	100%	RI	92%
NY	+8,448		FL	+126		CH	+34		TX	2,491,227		TX	38,700		FL	75,648		GA	82%	GA	89%
TX	+7,485		NY	+115		HI	+18		FL	1,751,343		NY	36,339		NJ	61,597		CT	80%	DC	87%
FL	+5,599		TN	+97		AL	+11		NY	1,479,220		FL	28,287		AZ	54,713		MA	79%	AL	86%
CT	+4,367		KS	+96		MD	+11		IL	1,148,088		PA	22,471		GA	51,928		MD	79%	OK	84%
NC	+3,084		CT	+68		CO	+8		GA	943,695		NJ	22,011		CH	47,672		FL	78%	CA	84%
GA	+2,704		IN	+58		IN	+5		CH	922,143		IL	21,779		AL	43,383		SC	78%	TX	84%
NJ	+2,561		TX	+57		FR	+5		PA	872,825		MI	15,863		IN	41,109		CA	78%	NC	82%
PA	+2,504		MA	+55		IA	+2		NC	799,279		GA	15,130		MD	33,187		PA	77%	FL	82%
AZ	+2,250		VA	+42		WI	+2		AZ	782,887		MA	15,054		WI	24,919		MO	77%	TN	81%
+49,416			+922			+163			14,537,047			259,784			524,151			All states 73%		75%	
All states +77,737			+1,309			-1384			All states 26,875,063			455,455			827,944			All states 73%		75%	
Top ten 64%			70%			-12%			Top ten 54%			57%			63%			Median 71%		72%	

Some states not reporting

Five most improved US states

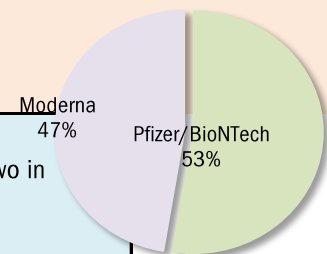
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CA	-4,650	TX	-110	KS	-207	NC	+46,757
PA	-2,213	CA	-87	MI	-85	TX	+13,781
NJ	-1,771	PA	-67	RI	-47	CH	+4,375
MA	-1,738	NC	-49	AR	-35	DC	+2,151
NC	-1,590	OK	-48	MN	-32	AR	+1,611



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
59.31 million doses distributed	+0.00 million/day
42.42 million doses administered	+1.21 million/day
32.34 million persons with one or more shot	+0.76 million/day
9.52 million persons with two or more shots	+0.37 million/day
4.95 million shots long-term care residents/staff	+0.11 million/day
71.5% of distributed doses administered	
12.9% of US pop at least 1 shot	2.9% 2 shots
100% of LTC at least 1 shot	25.6% 2 shots



At today's dosing pace,
every American will have two in
509 days
by Jul 1, 2022

US will achieve herd immunity in
247 days
by Oct 12, 2021

State	Best	Middle	Worst
Doses distributed as % population	Best		
One shot received as % population		Middle	
Two shots received as % population			Worst

AK
34.0%
15.0%
5.6%

ME
18.9%
9.8%
3.3%

WI
15.9%
10.2%
2.7%

VT
18.6%
10.1%
4.4%

NH
19.0%
8.8%
3.4%

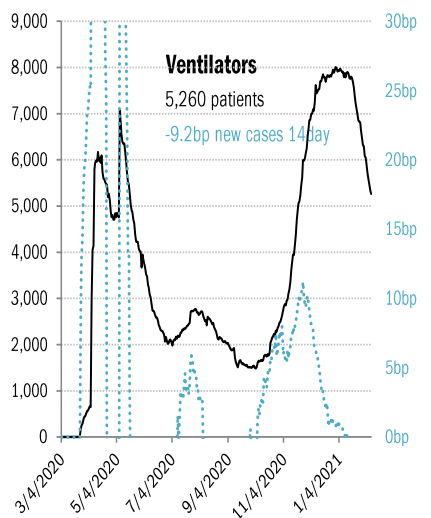
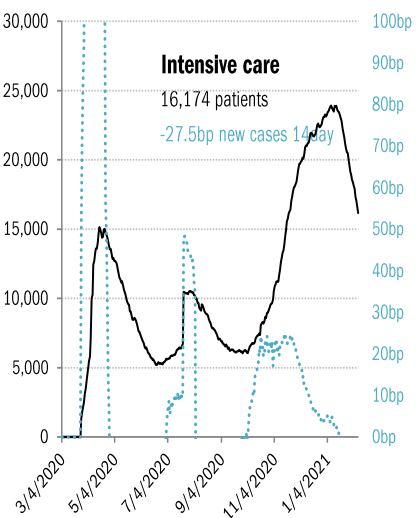
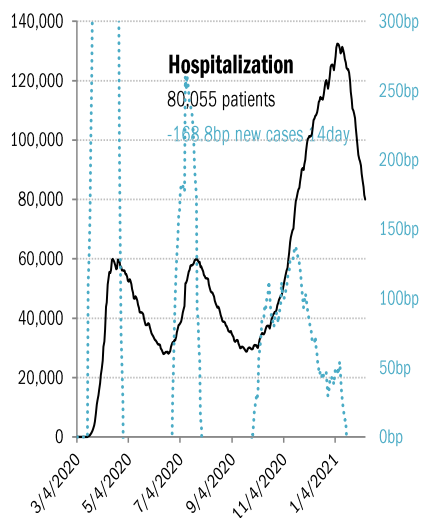
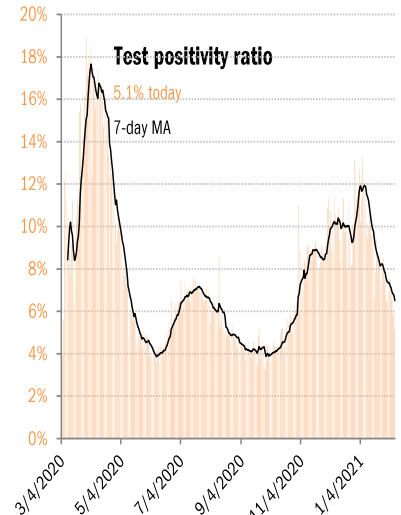
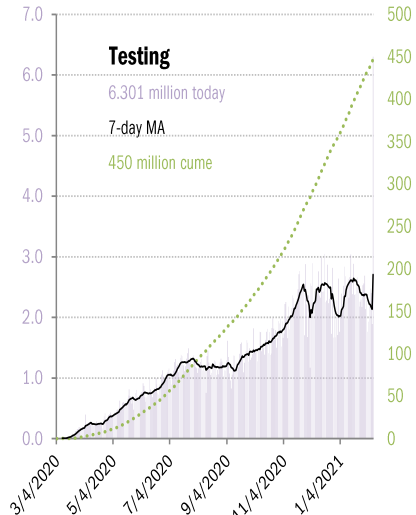
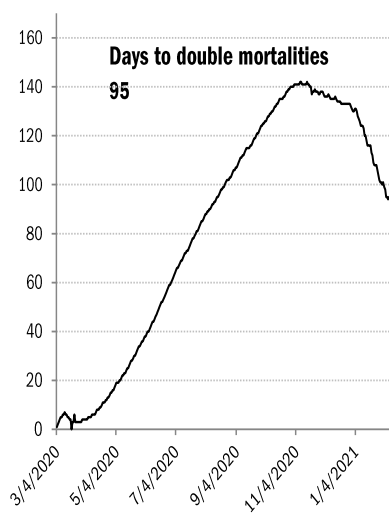
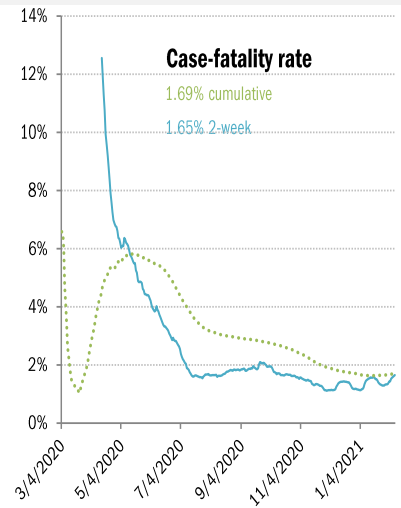
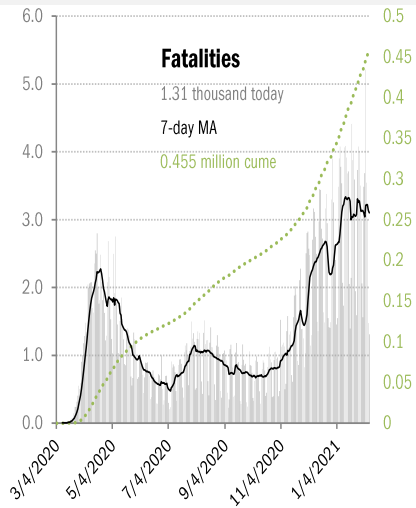
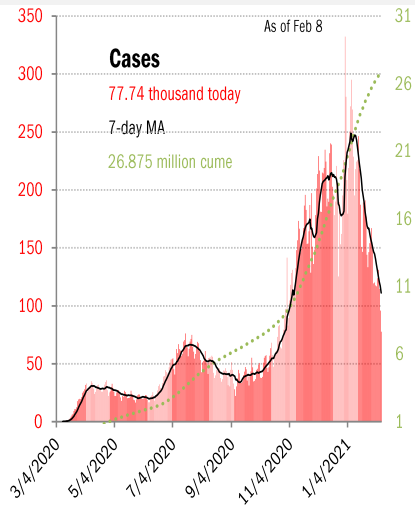
WA 15.9% 9.6% 2.5%	ID 14.9% 8.4% 2.0%	MT 15.3% 9.6% 3.4%	ND 17.3% 11.5% 5.0%	MN 16.9% 9.6% 2.9%	IL 16.5% 8.9% 2.4%	MI 16.4% 9.4% 3.3%	NY 17.4% 9.1% 2.8%	MA 18.1% 9.1% 2.5%	RI 18.2% 8.0% 3.3%
OR 17.4% 9.8% 3.3%	NV 13.9% 9.0% 2.2%	WY 17.6% 10.2% 2.9%	SD 18.2% 10.5% 4.6%	IA 16.2% 8.0% 2.8%	IN 16.6% 8.8% 2.3%	OH 16.3% 8.9% 2.6%	PA 17.9% 8.7% 2.6%	NJ 16.7% 9.3% 2.5%	CT 20.8% 11.4% 3.6%
CA 17.6% 9.6% 2.1%	UT 15.4% 9.5% 3.3%	CO 17.2% 9.4% 3.6%	NE 17.9% 8.5% 3.5%	MO 15.7% 8.0% 2.4%	KY 16.7% 9.7% 2.9%	WV 19.9% 12.2% 5.8%	VA 16.3% 10.5% 2.5%	MD 17.0% 8.8% 2.5%	DE 16.6% 10.3% 2.6%
AZ 16.3% 9.3% 2.2%	NM 17.4% 12.0% 4.2%	KS 16.9% 8.0% 2.4%	AR 17.9% 10.1% 3.1%	TN 16.9% 8.1% 3.6%	NC 16.4% 9.5% 2.6%	SC 13.3% 8.9% 2.3%	DC 23.7% 10.7% 3.8%		
		OK 18.6% 10.9% 3.8%	LA 16.6% 9.4% 3.8%	MS 17.3% 9.0% 2.0%	AL 16.4% 7.7% 1.8%	GA 15.9% 8.7% 2.1%			
		TX 15.2% 8.7% 2.8%					FL 17.7% 9.2% 2.9%		PR 19.5% 7.2% 2.2%

As of Feb 8

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

US deep-dive

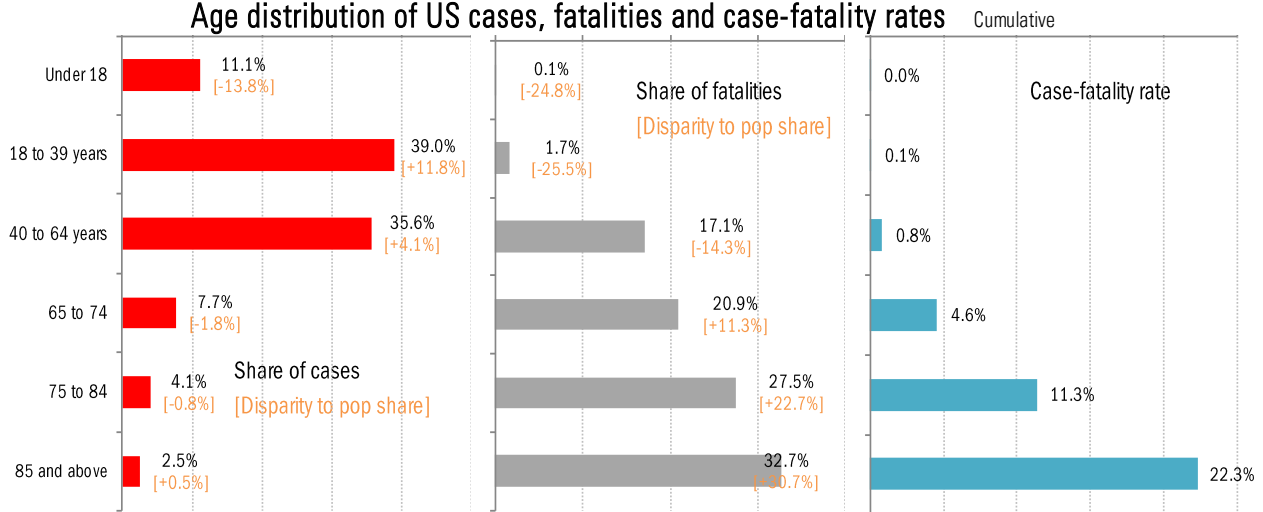
National and state-by-state data do not line up because of different sources



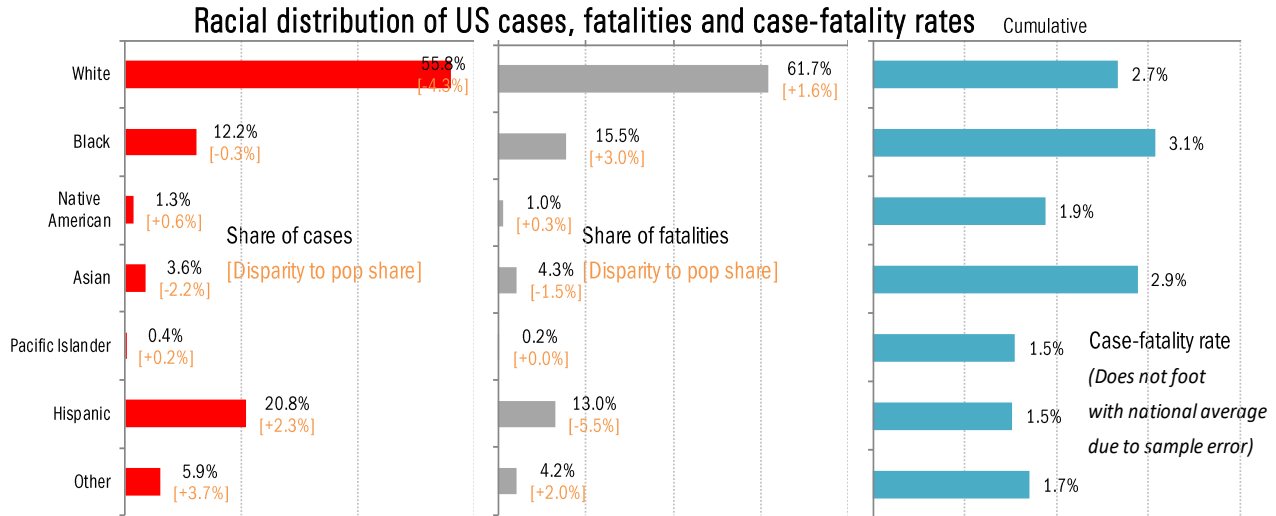
Source: [Covid Tracking Project](#), TrendMacro calculations

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

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

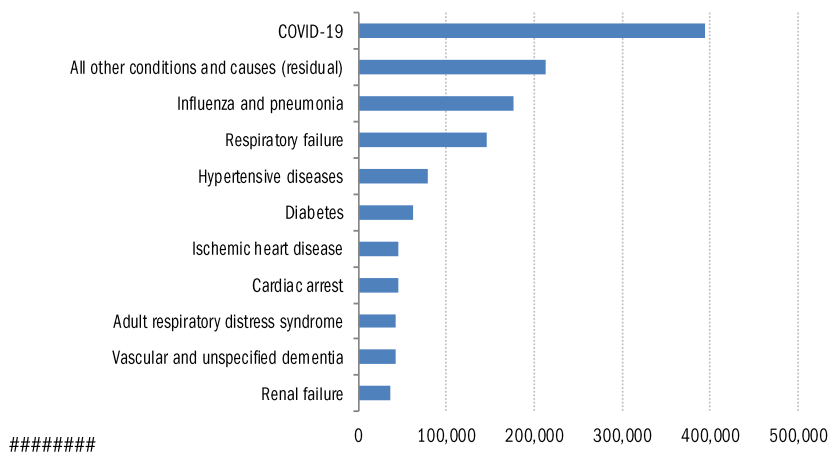


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



For 6% of the deaths, COVID-19 was the only cause mentioned. For deaths with conditions or causes in addition to COVID-19, on average, there were 2.9 additional conditions or causes per death.

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

Recommended reading

[Coronavirus Likely Came From Animal, Not Laboratory, WHO Says](#)

Jeremy Page, Chao Deng and Drew Hinshaw
Wall Street Journal
February 9, 2021

[The day anthrax was released in a tunnel on the Northern Line - by scientists from Porton Down...it's far from the only time they've used Britons as guinea pigs for experiments](#)

Norman Baker,
Daily Mail
February 6, 2021

[Sounds Like Something Out of an Ayn Rand Novel](#)

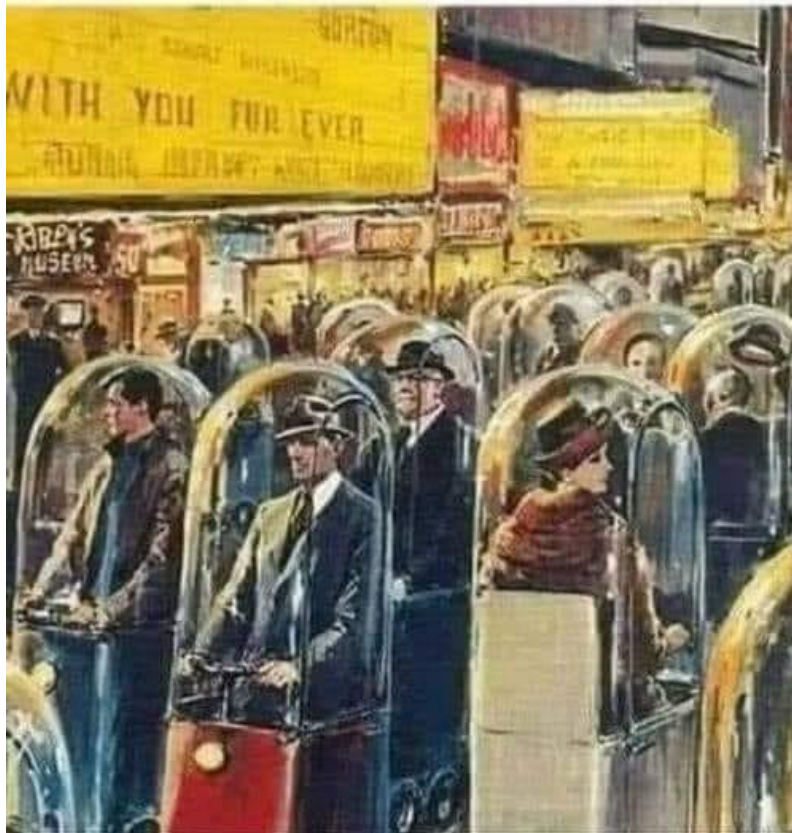
Don Boudreaux
Cafe Hayek
February 2, 2021

[Neutralization of SARS-CoV-2 spike 69/70 deletion, E484K and N501Y variants by BNT162b2 vaccine-elicited sera](#)

Xuping Xie et al.
Nature Medicine
February 8, 2021

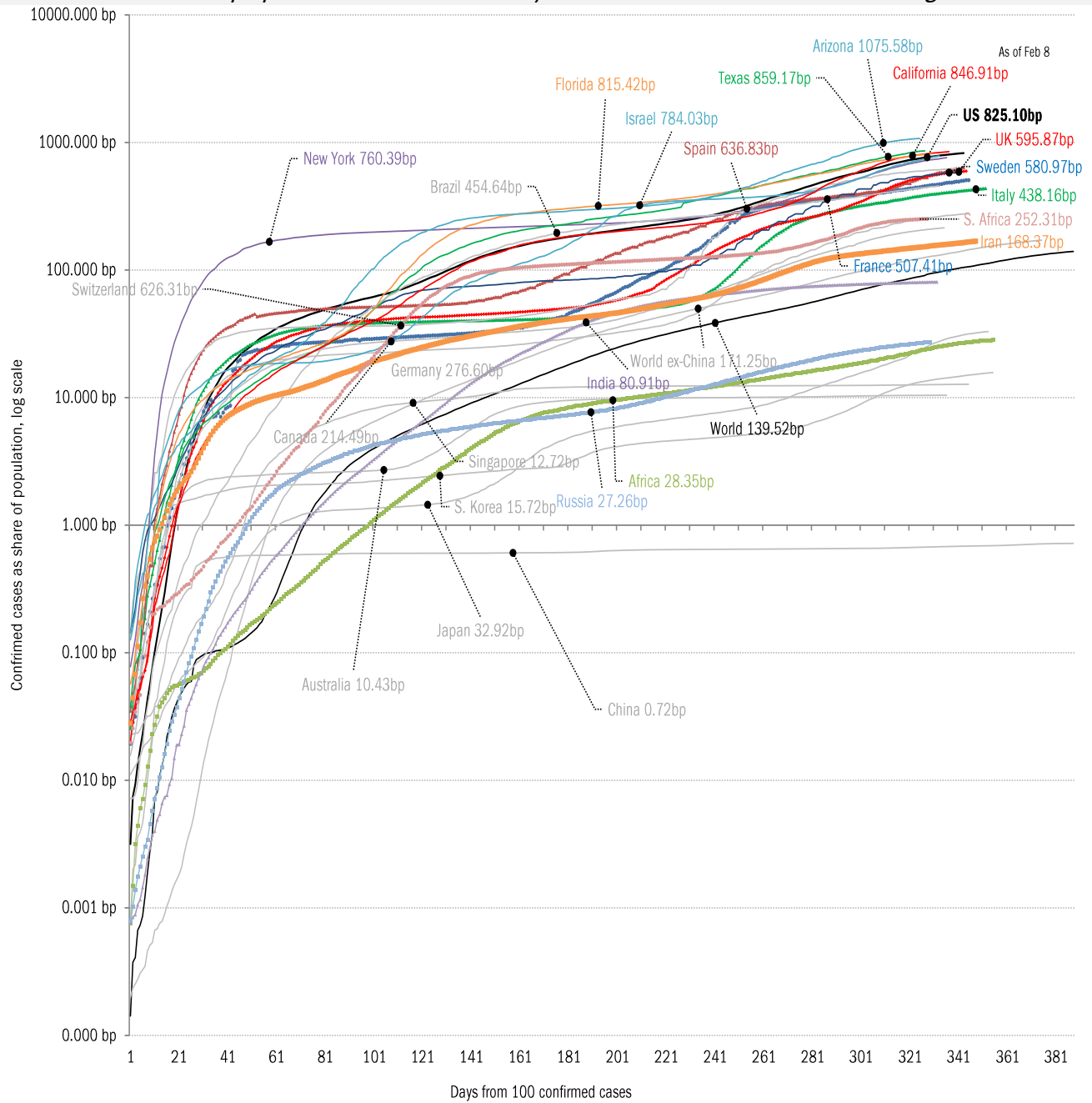
Meme of day

This painting was done by artist Walter Molino in 1962... And he titled it "Life in 2022" !!!



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

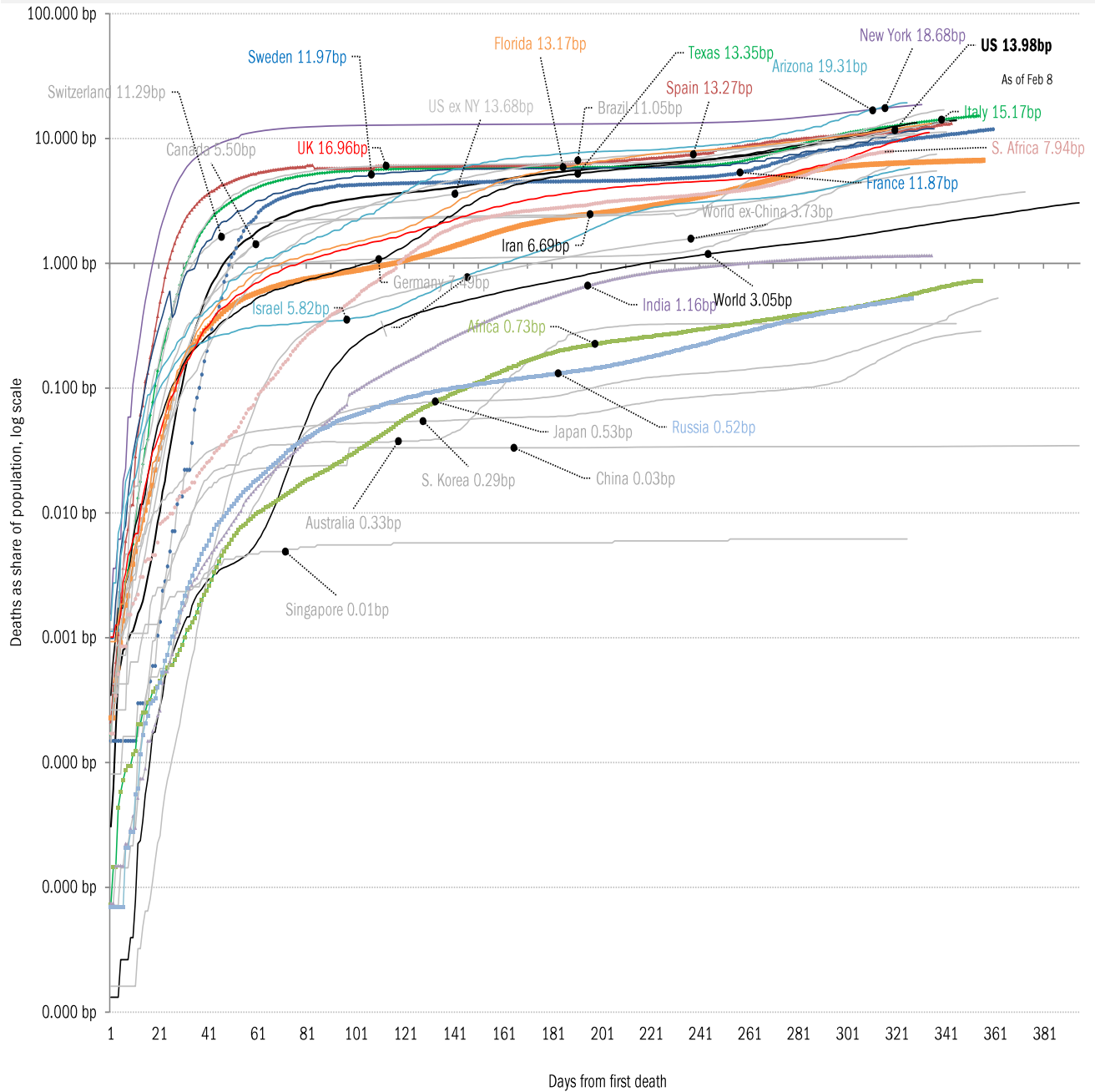
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

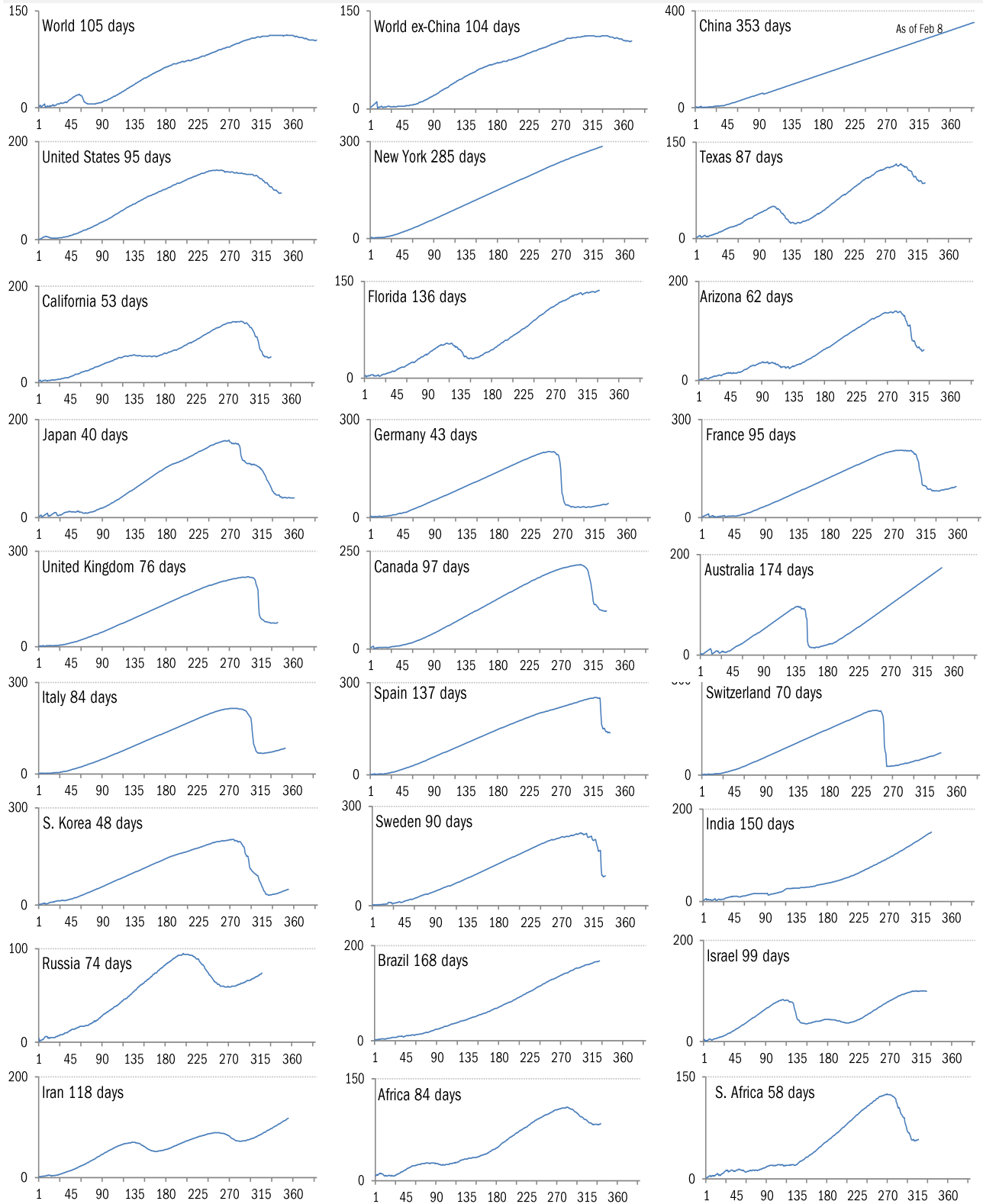


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

"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

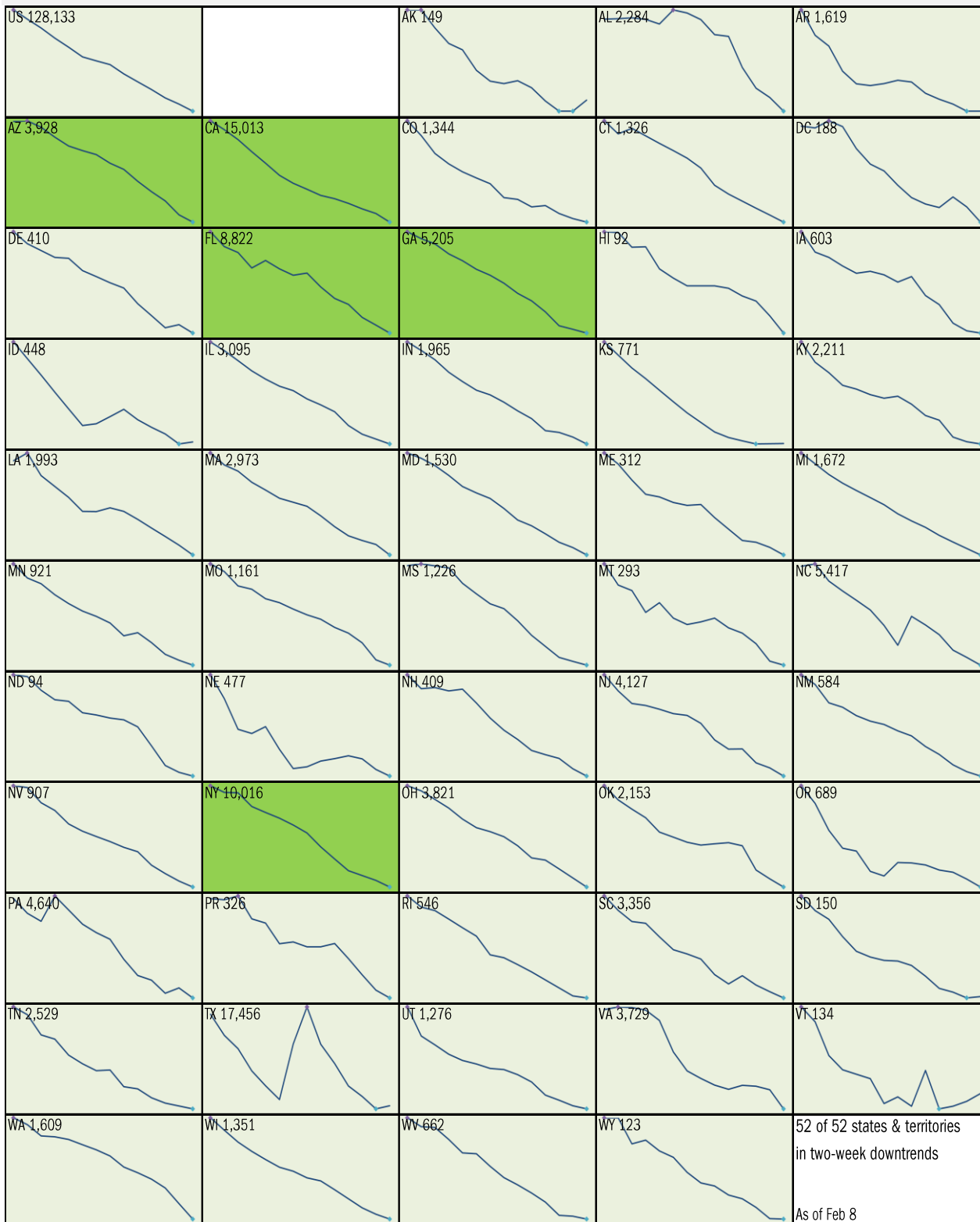


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

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

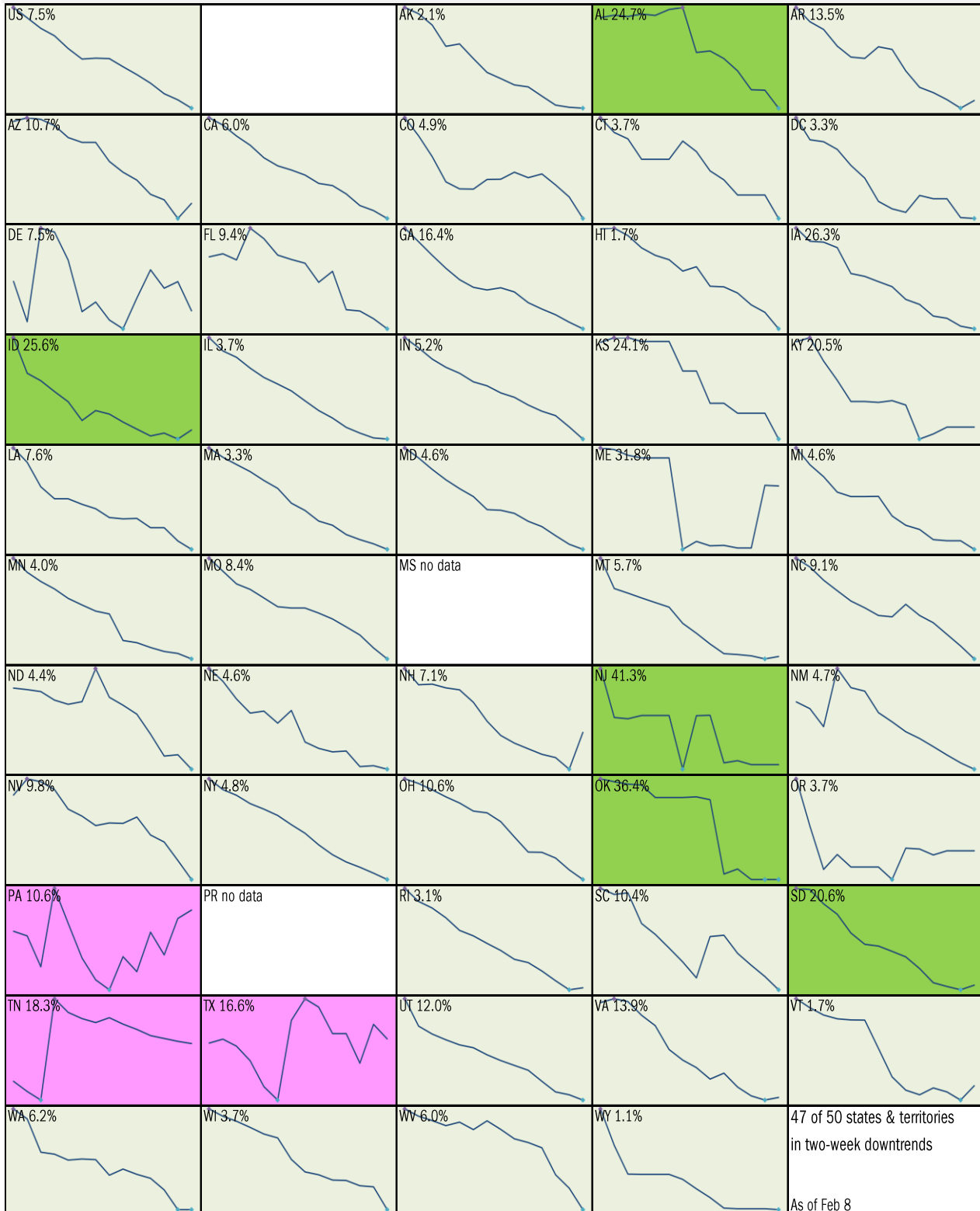


Source: [Covid Tracking Project](#), TrendMacro calculations

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

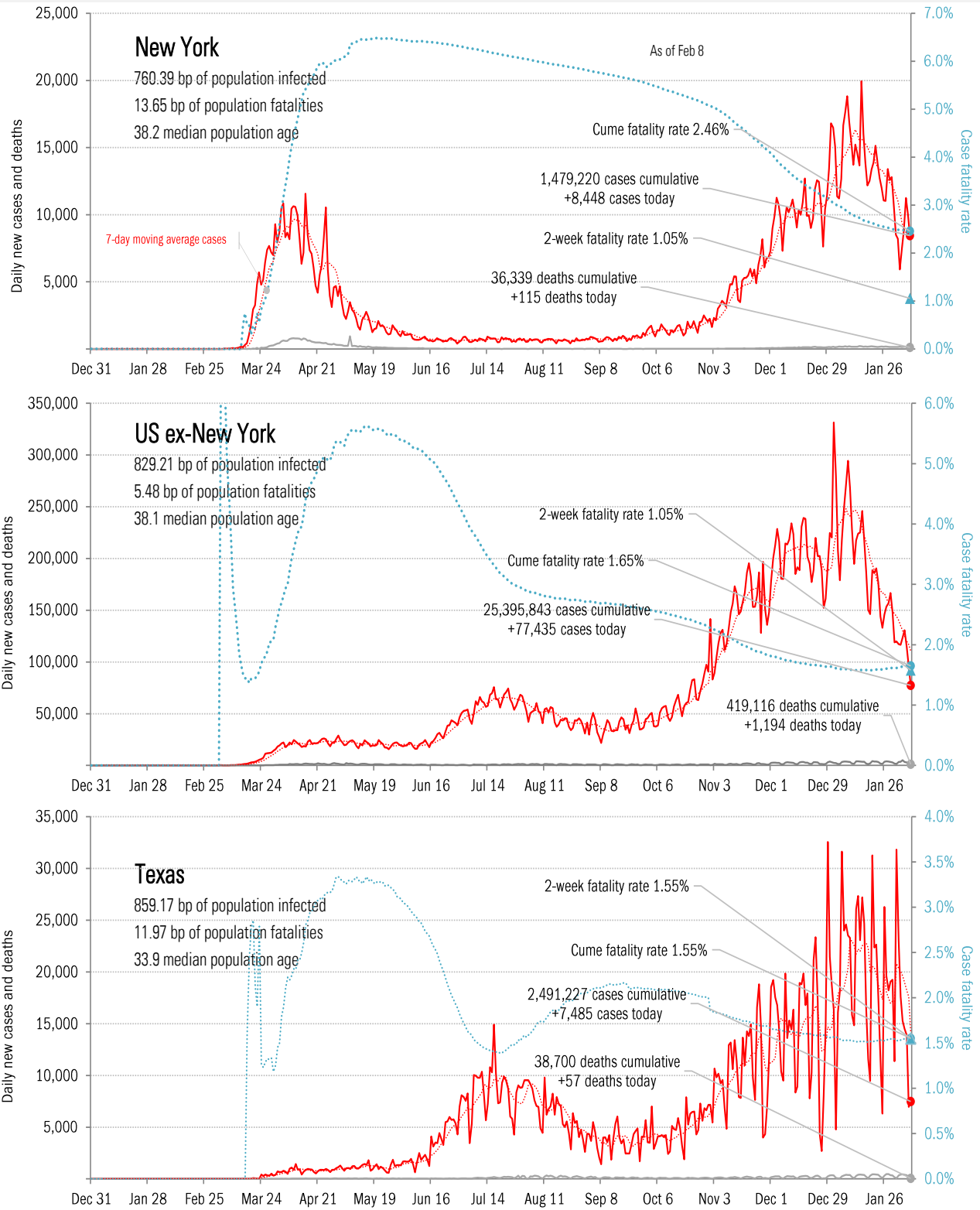
14-day moving average, last 14 days *Most recent value displayed* ● High ● Low

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



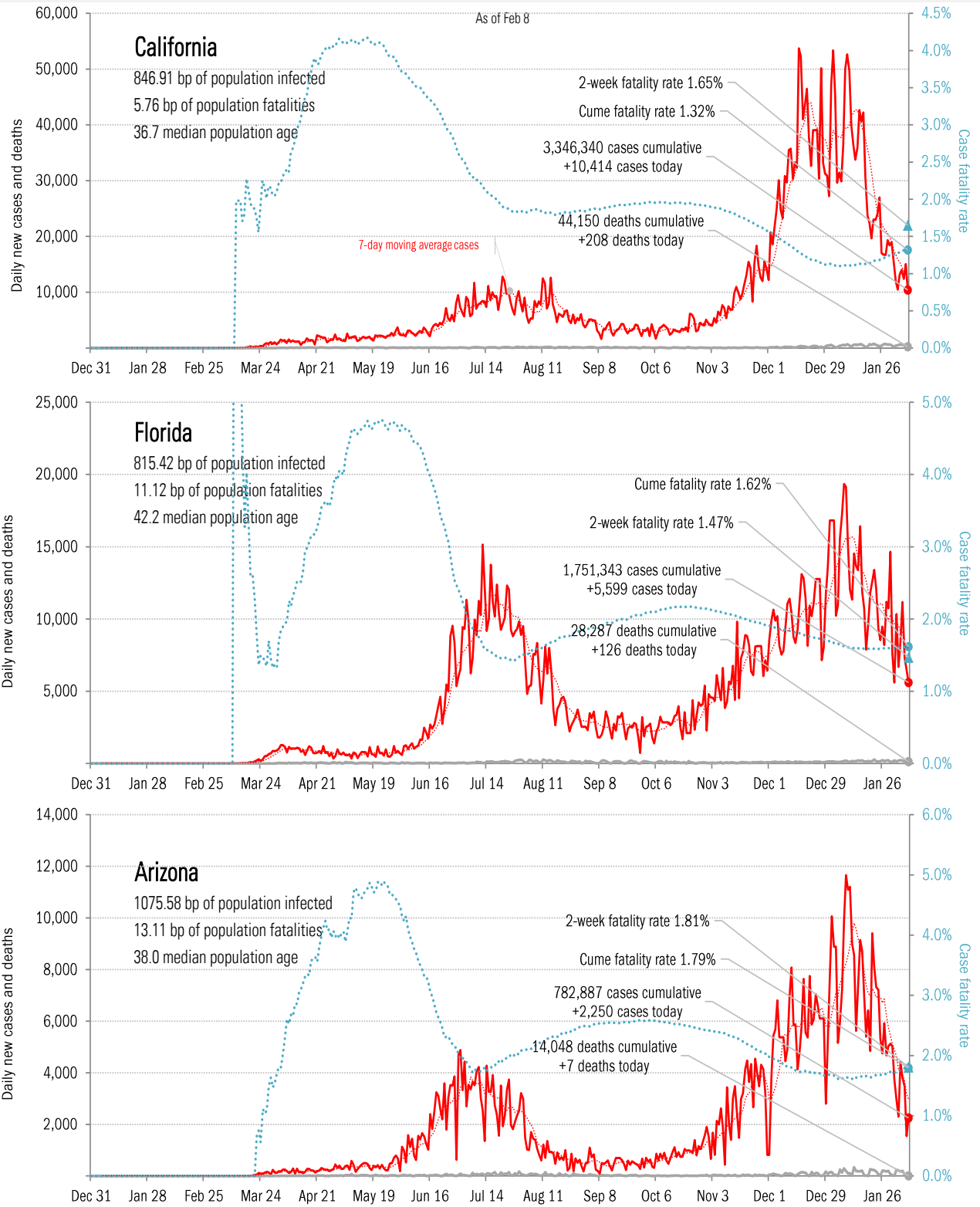
Source: [Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



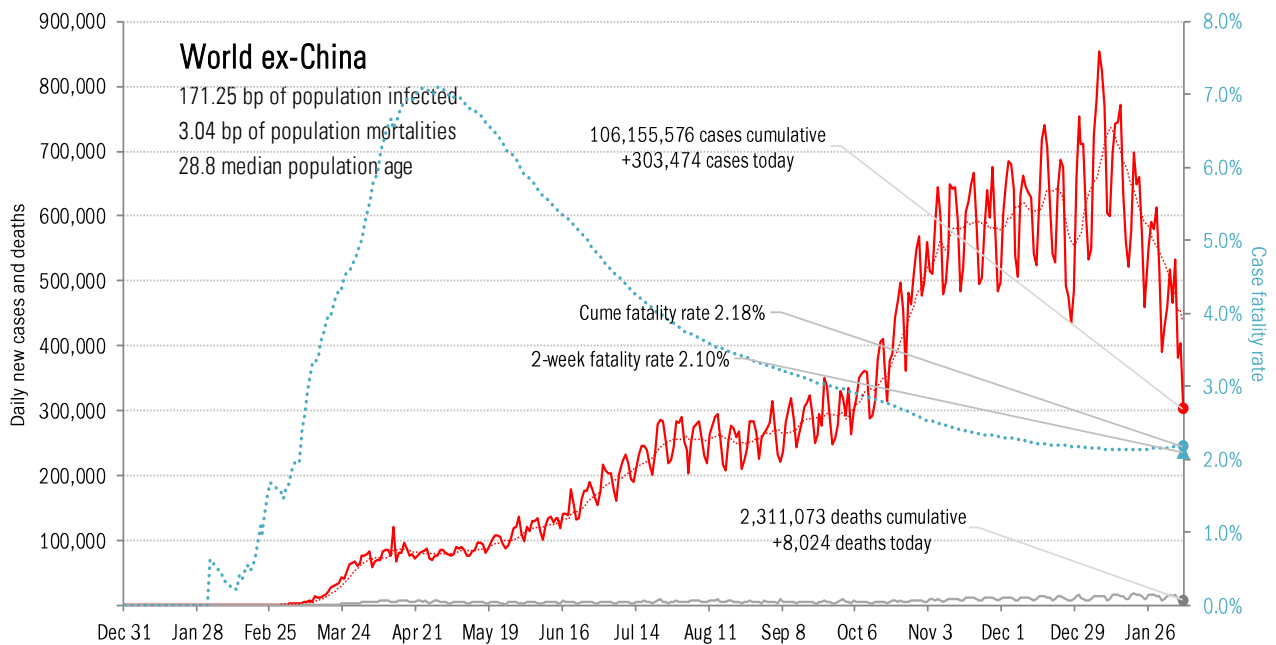
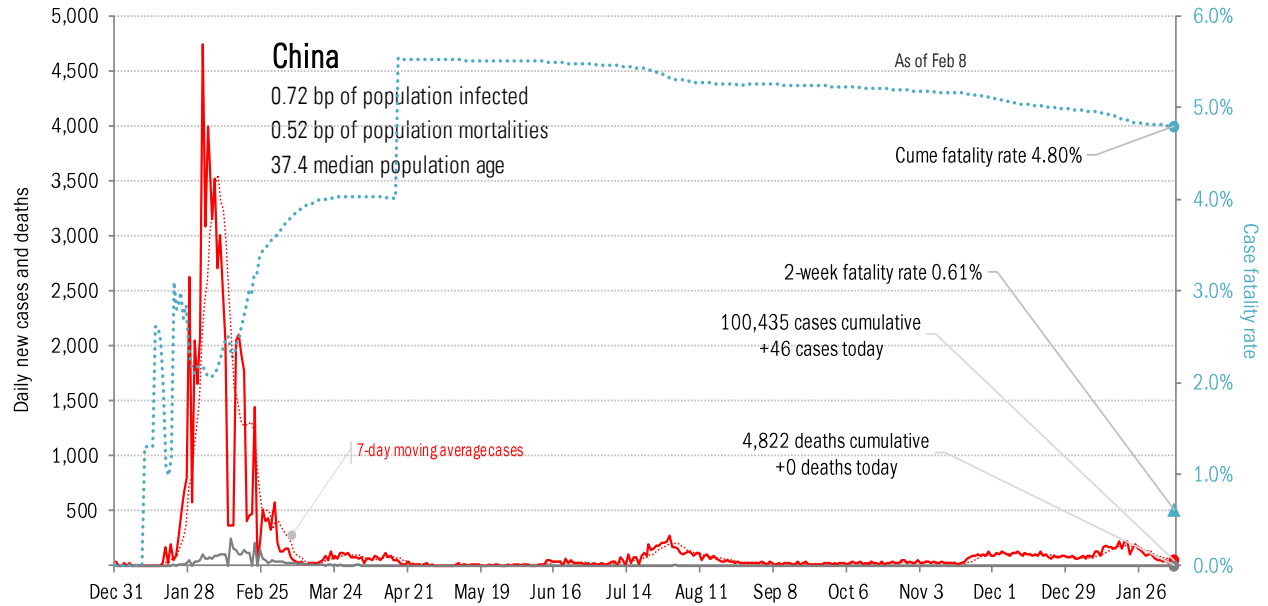
Source: [Covid Tracking Project](#), TrendMacro calculations

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



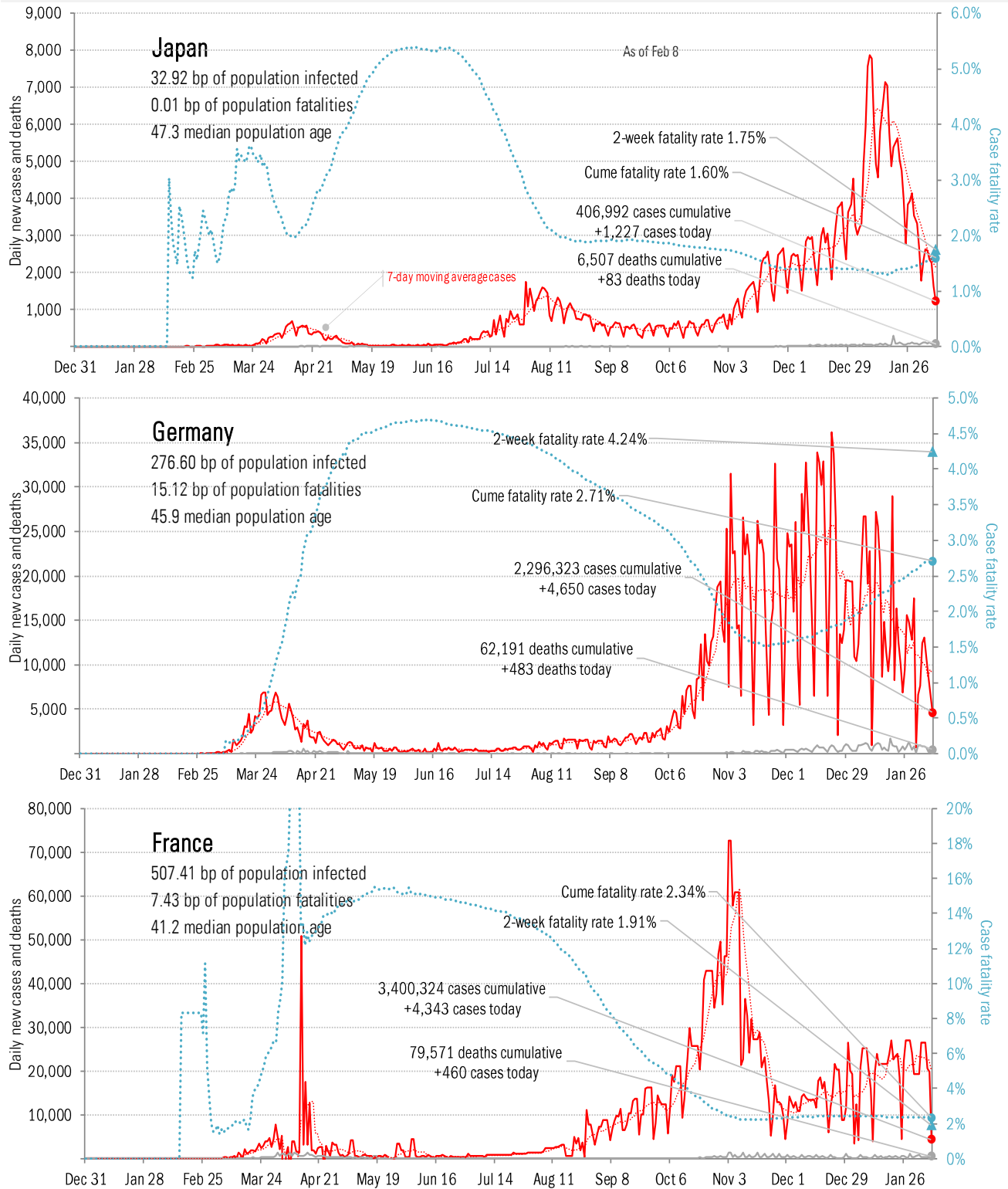
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



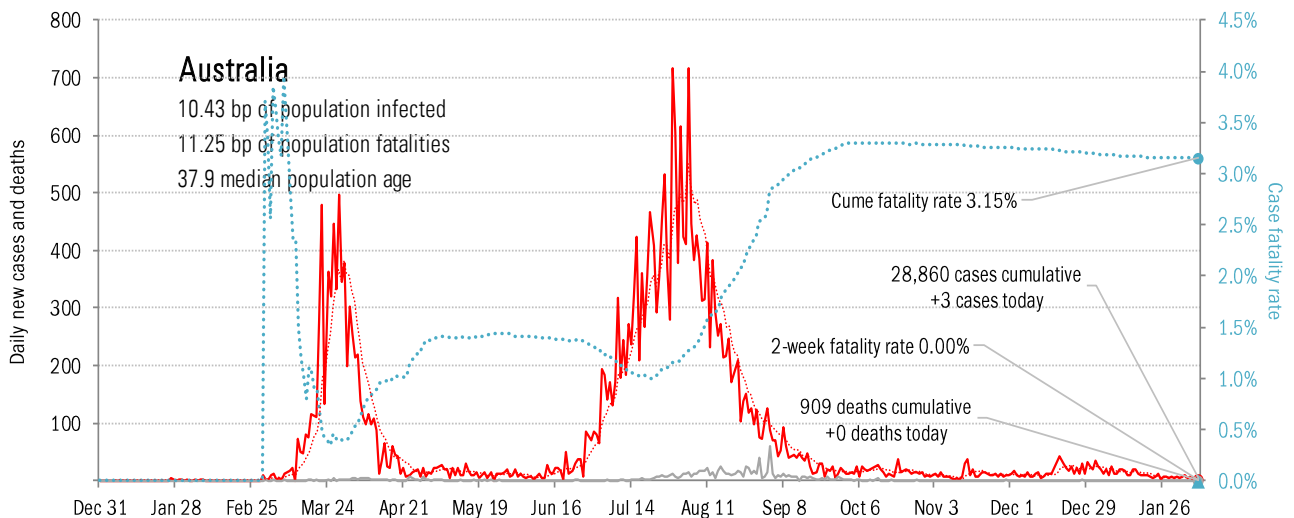
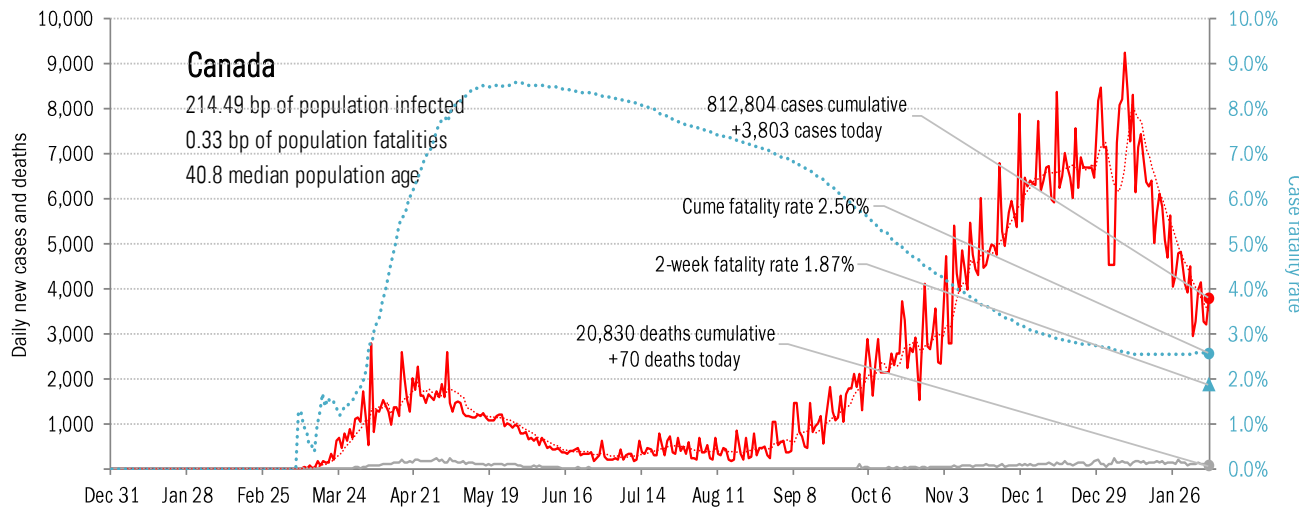
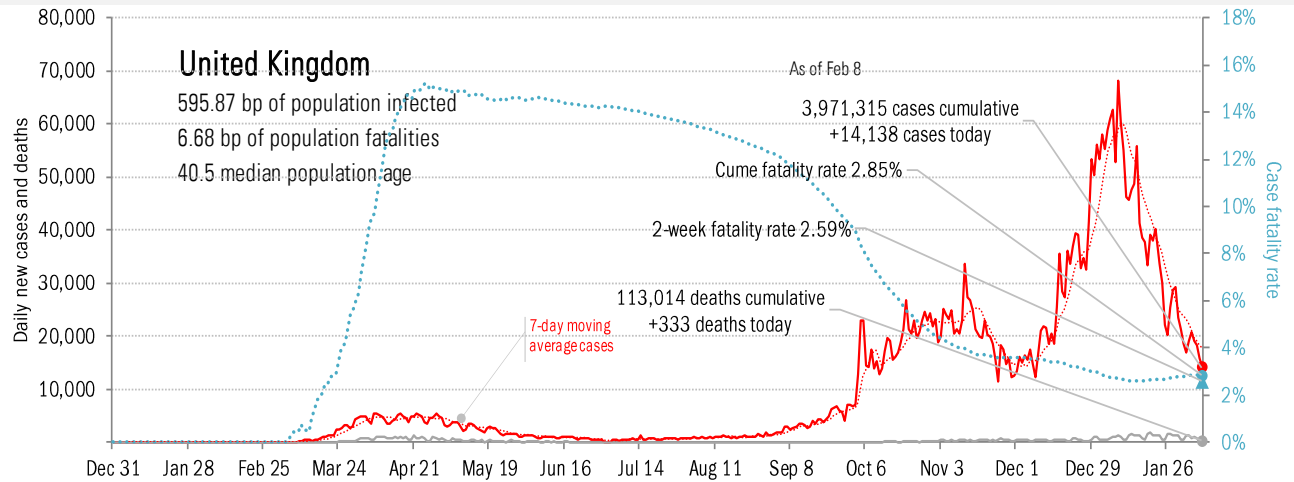
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



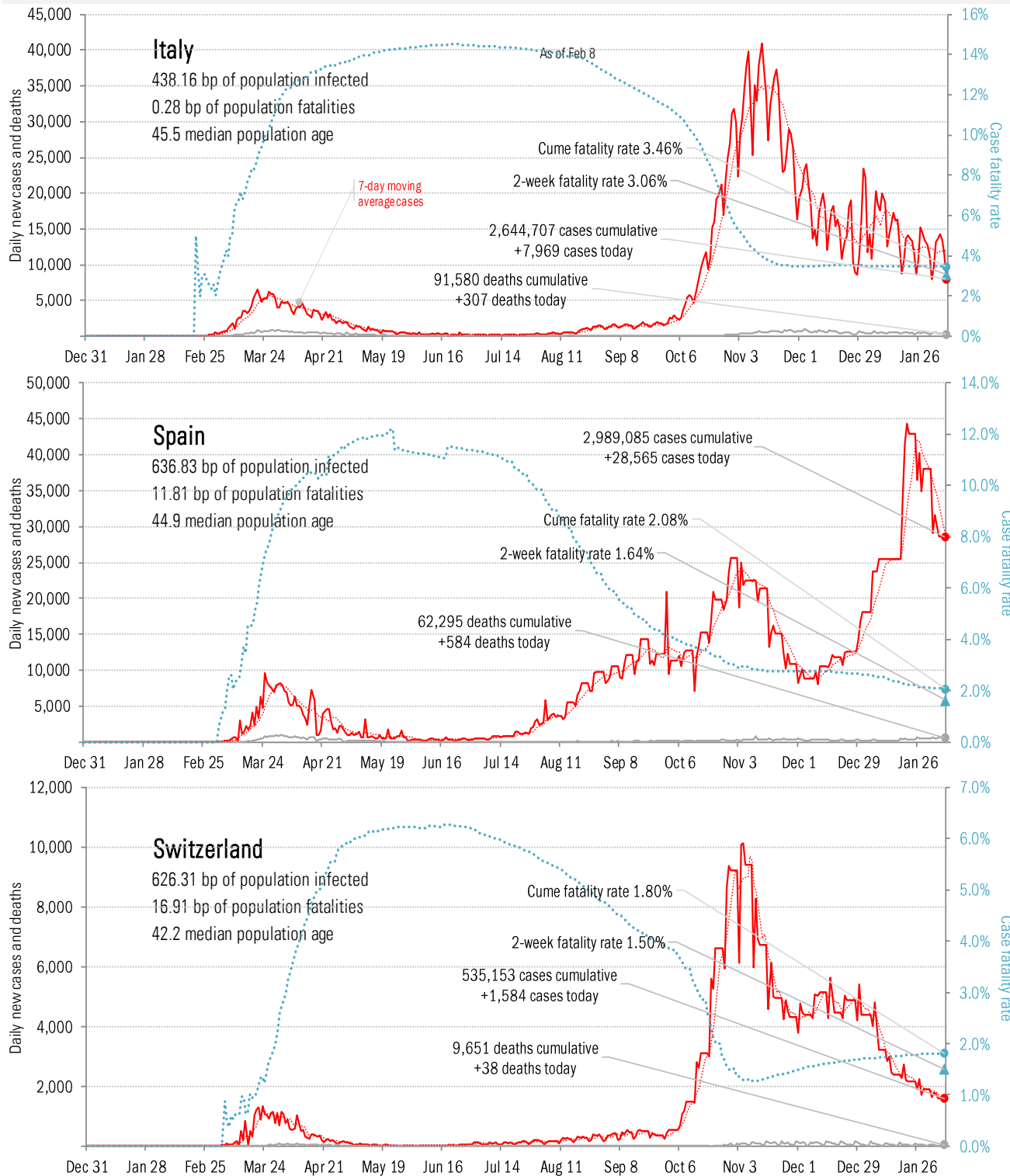
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



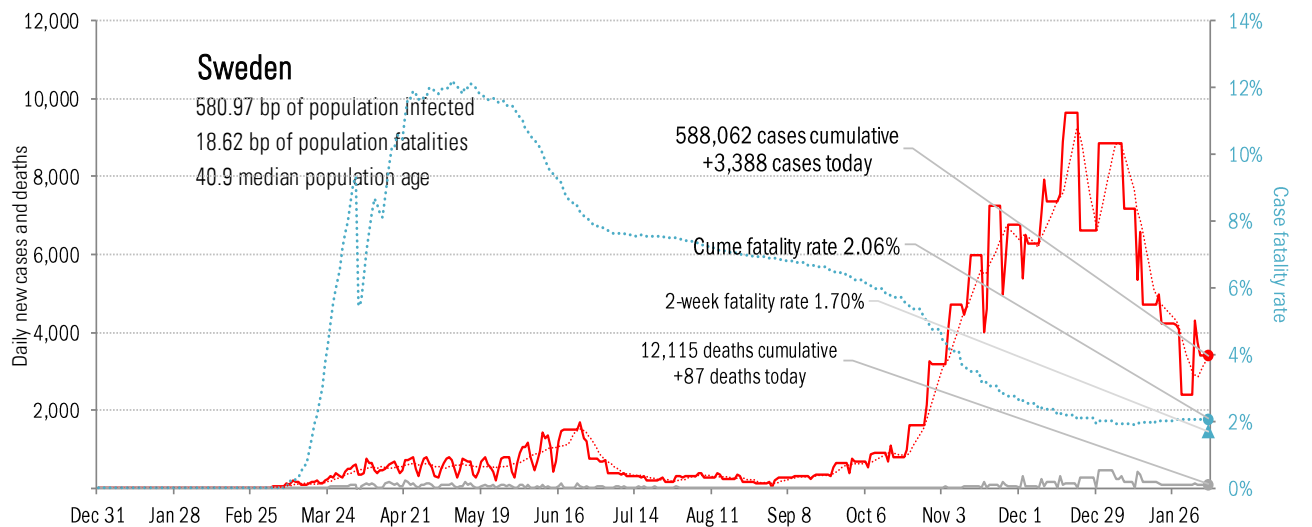
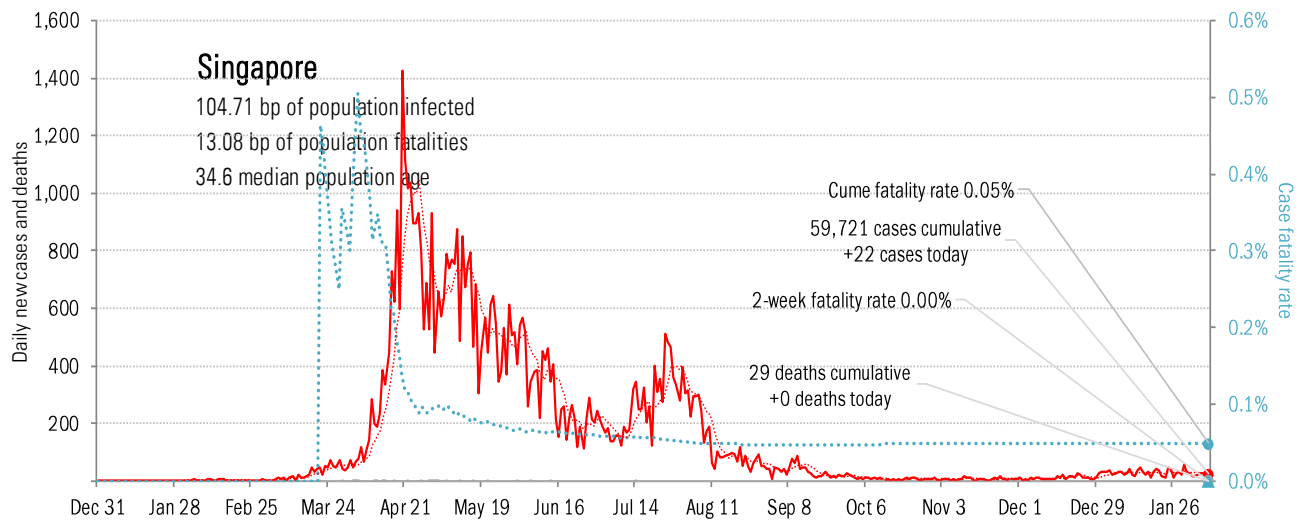
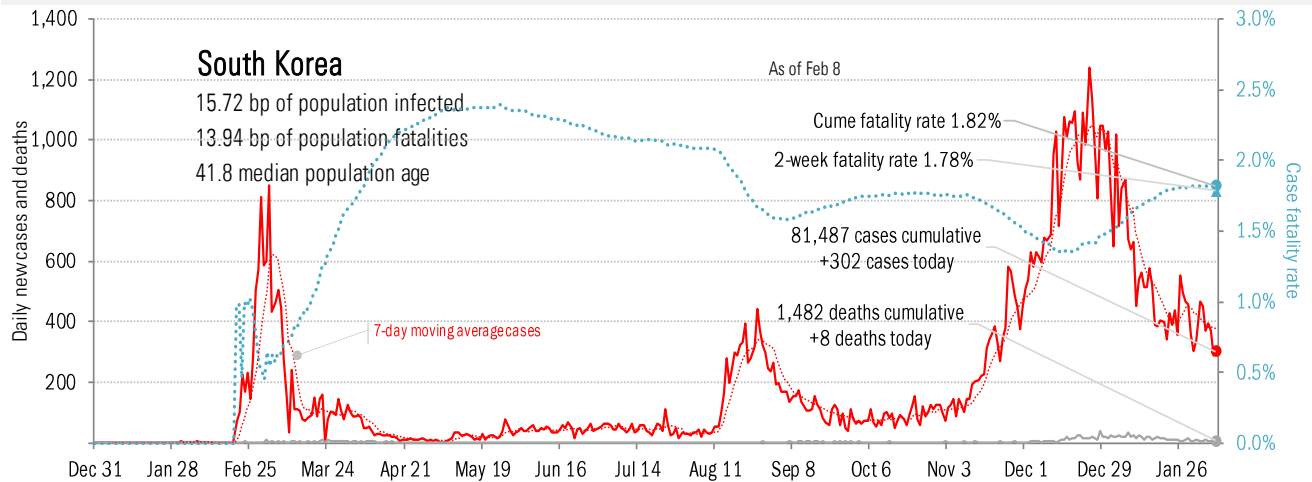
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



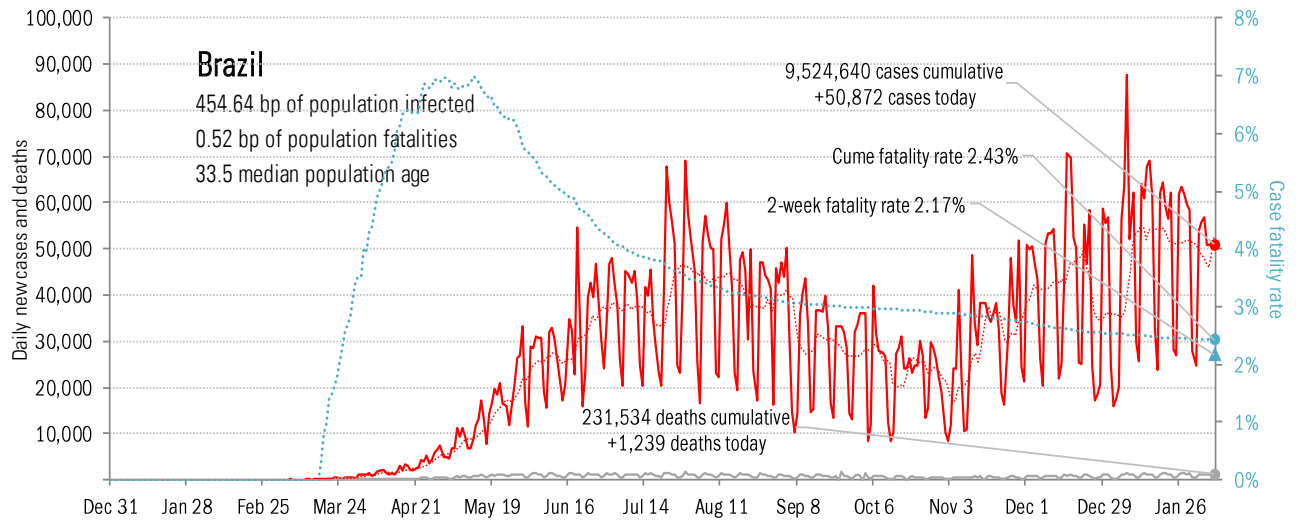
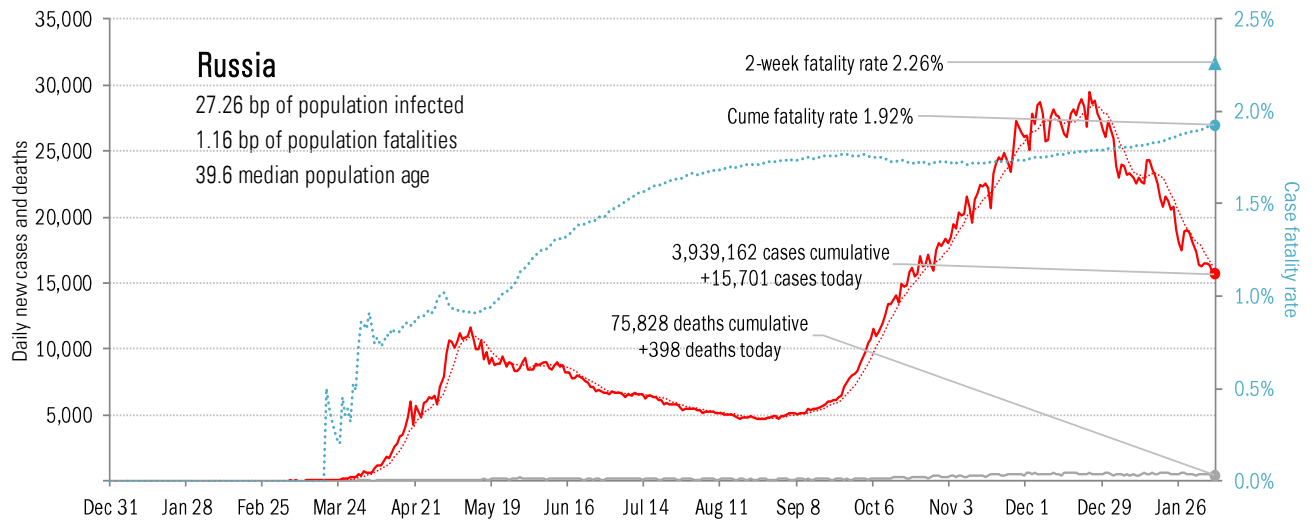
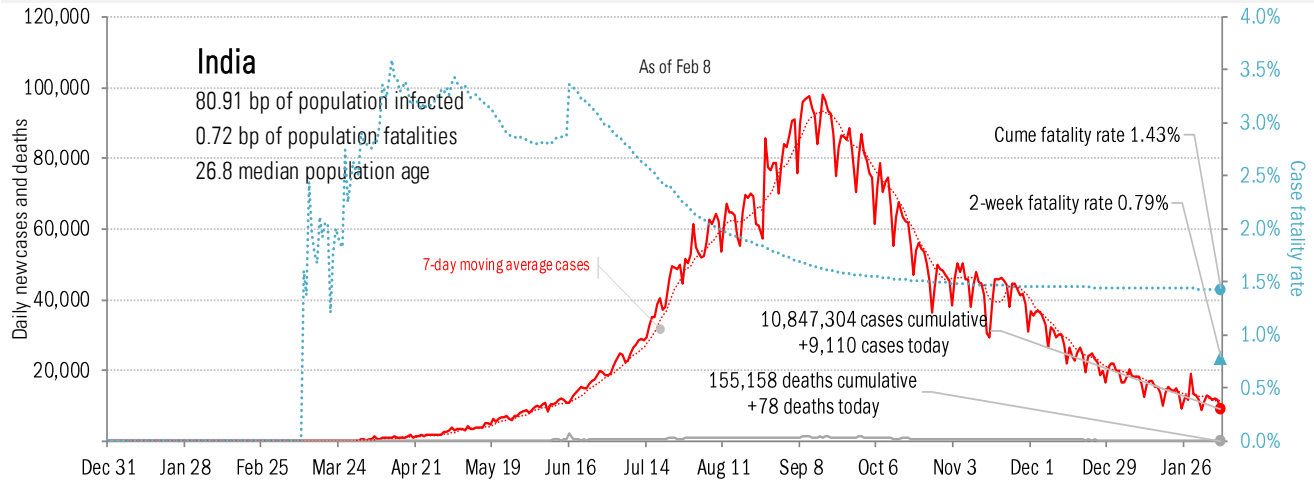
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



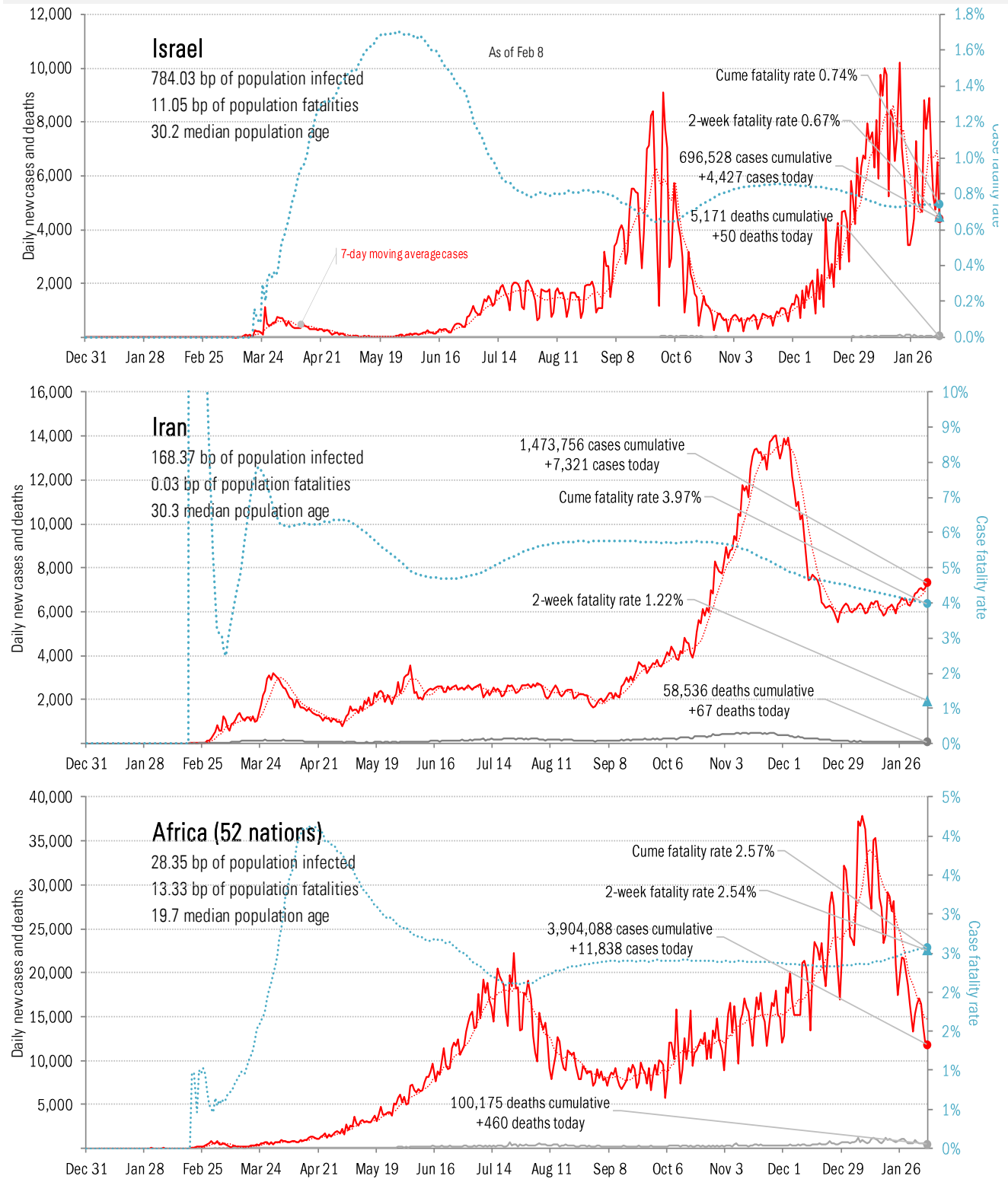
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



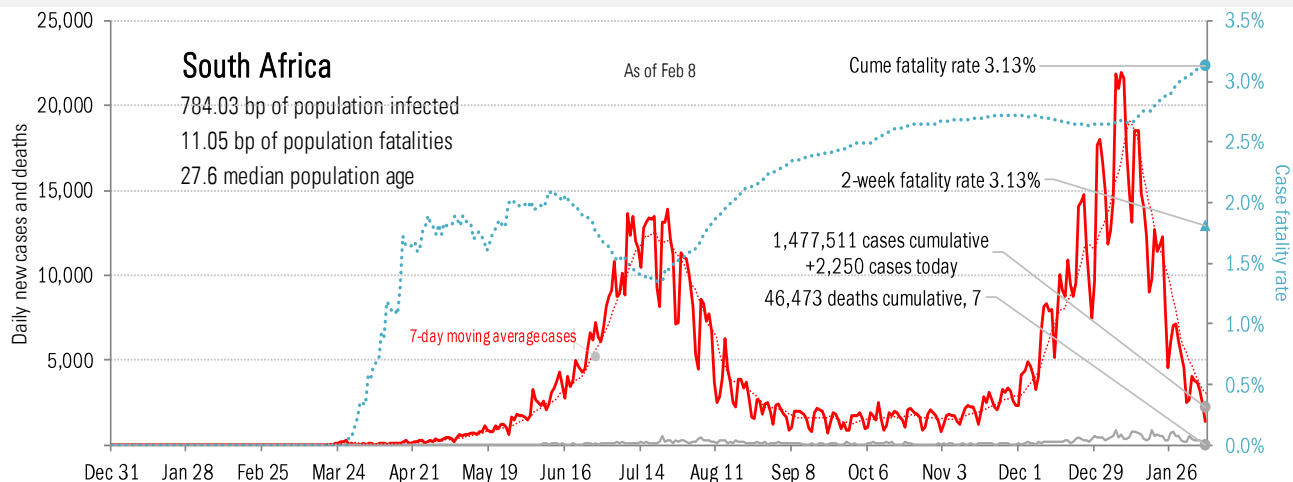
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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