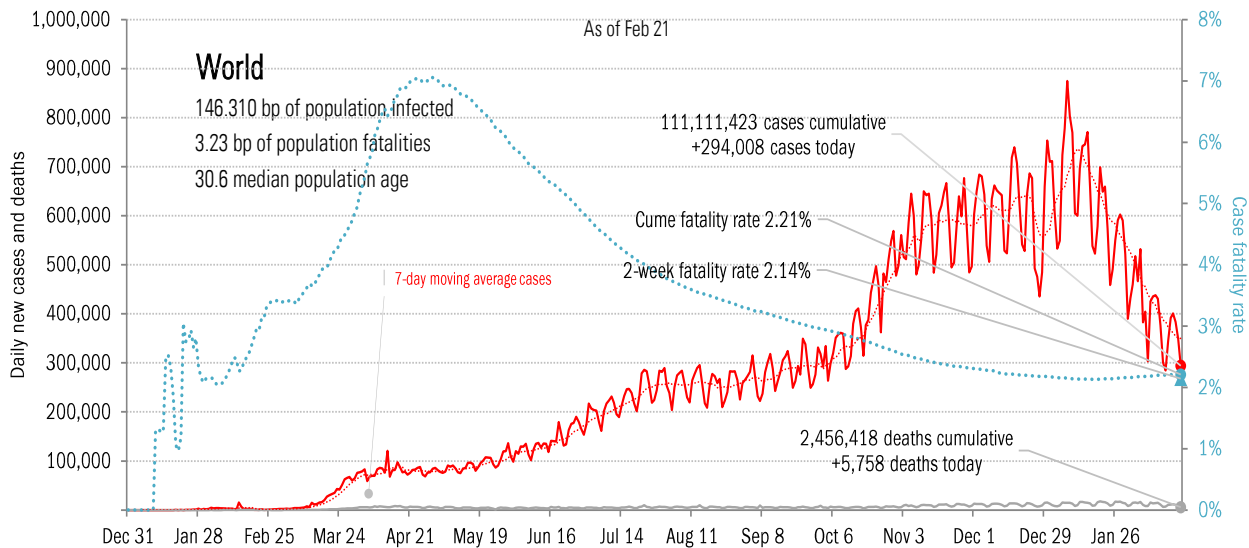
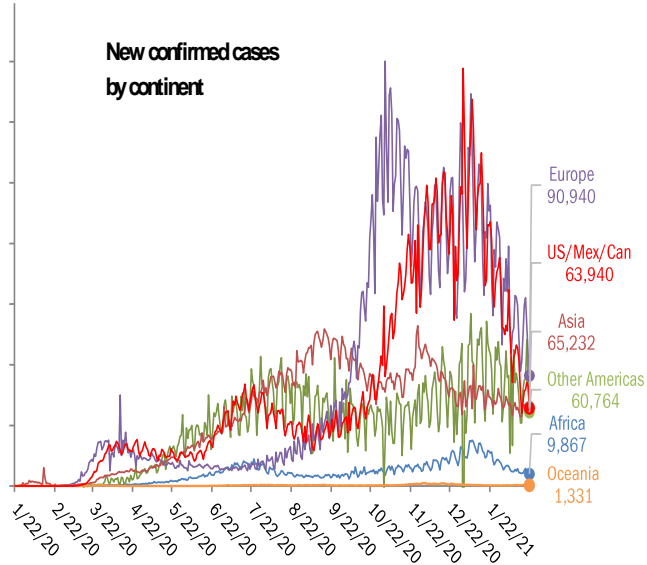


Data Insights: Covid-2019 Monitor

Monday, February 22, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+58,429	United States	+1,286
Brazil	+29,026	Brazil	+527
India	+14,199	Russia	+409
Peru	+13,786	Peru	+407
Italy	+13,450	Mexico	+310
Russia	+12,568	Italy	+232
United Kingdom	+9,835	United Kingdom	+217
Iran	+7,931	Indonesia	+173
Indonesia	+7,300	Colombia	+149
Poland	+7,040	Czechia	+117
+173,564		+3,827	
World	+294,008	World	+5,758
Top ten	59%	Top ten	66%



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

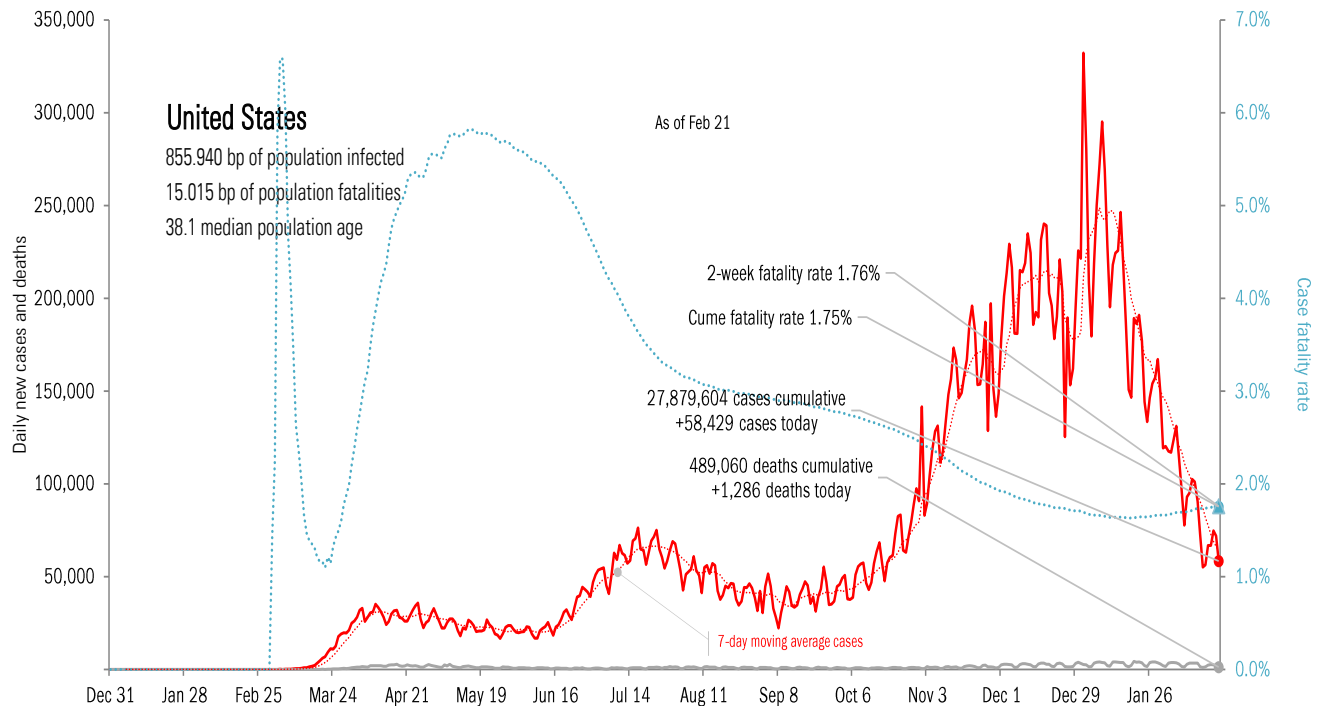
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
CA	+6,760		CA	+280		TN	+5		CA	3,441,946		CA	49,105		NY	89,995		AK	88%	DC	84%
NY	+6,610		VA	+134		CO	+3		TX	2,588,101		TX	41,343		FL	78,946		RI	86%	GA	84%
FL	+4,935		TX	+130		UT	+3		FL	1,834,708		NY	37,851		NJ	63,108		GA	79%	AL	82%
TX	+4,484		FL	+95		FR	+2		NY	1,578,785		FL	30,434		AZ	56,946		MA	79%	TX	82%
SC	+2,872		NY	+75		ND	+1		IL	1,174,409		PA	23,597		GA	54,753		CT	79%	DE	81%
NC	+2,541		SC	+68		AK	+0		GA	985,505		NJ	22,858		CH	49,372		MD	78%	FL	80%
VA	+2,303		CH	+67		AS	+0		CH	953,767		IL	22,466		AL	44,767		SC	78%	MO	79%
NJ	+2,031		MA	+47		CT	+0		PA	913,497		CH	16,816		IN	42,445		FL	78%	RI	79%
PA	+1,906		IL	+40		GU	+0		NC	842,637		GA	16,744		MD	34,439		PA	77%	MS	79%
LA	+1,889		IN	+36		HI	+0		AZ	807,967		MI	16,342		WI	25,743		DC	76%	OK	79%
+36,331			+972			+14			15,121,322			277,556			540,514						
All states	+58,429			+1,286			-2063		All states	27,879,604			489,060			856,143		All states	71%		71%
Top ten	62%			76%			-1%		Top ten	54%			57%			63%		Median	71%		69%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
FL	-2,194	CA	-48,545	TX	-167	TX	+5,748
TX	-2,002	TX	-41,083	MD	-109	CH	+2,735
GA	-1,578	NY	-37,701	PA	-100	SC	+1,512
CH	-1,150	FL	-30,244	LA	-50	NM	+1,444
NY	-1,082	PA	-23,543	IL	-38	TN	+1,335



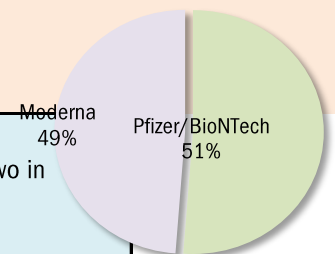
Source: [Covid Tracking Project](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US

US overall	Over last day
75.20 million doses distributed	+0.23 million/day
63.09 million doses administered	+1.80 million/day
43.63 million persons with one shot	+0.82 million/day
18.87 million persons with two shots	+0.97 million/day
6.52 million shots long-term care residents/staff	+0.12 million/day

83.9% of distributed doses administered

13.1% of US pop 1 shot 5.6% 2 shots
 100% of LTC 1 shot 45.9% 2 shots



At today's dosing pace,
 every American will have two in
329 days
 by Jan 16, 2022

US will achieve herd immunity in
153 days
 by Jul 23, 2021

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

AK
41.0%
20.8%
11.2%

ME
25.0%
14.2%
5.7%

WI
22.4%
14.7%
6.2%

VT
26.2%
14.7%
7.2%

NH
24.2%
13.2%
6.0%

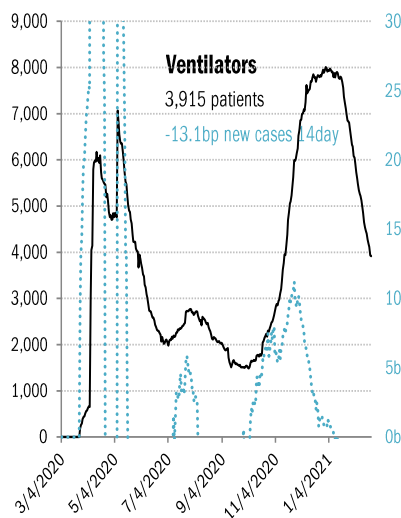
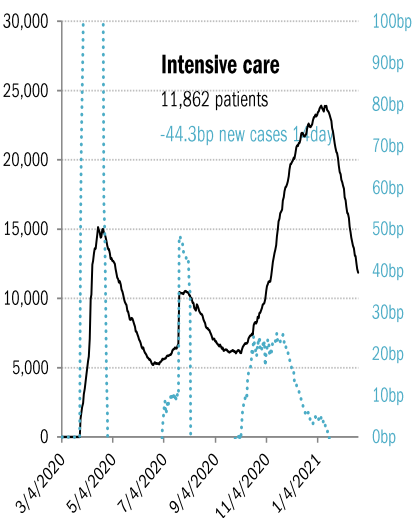
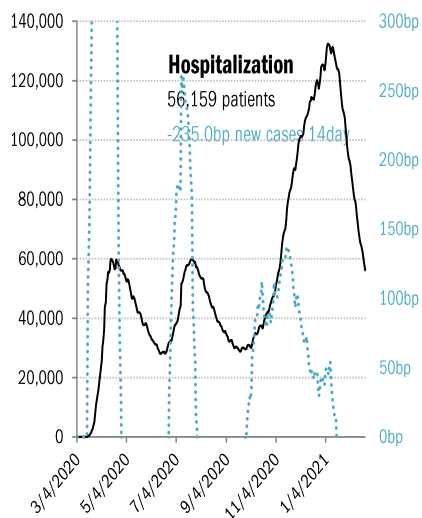
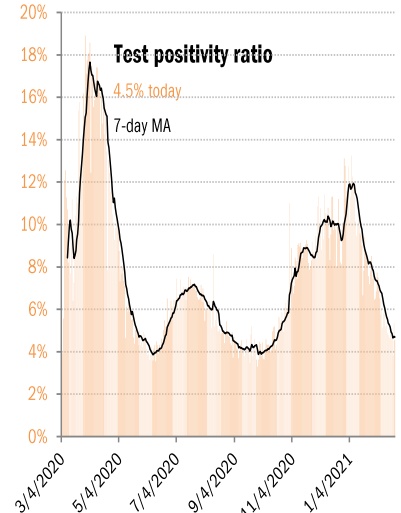
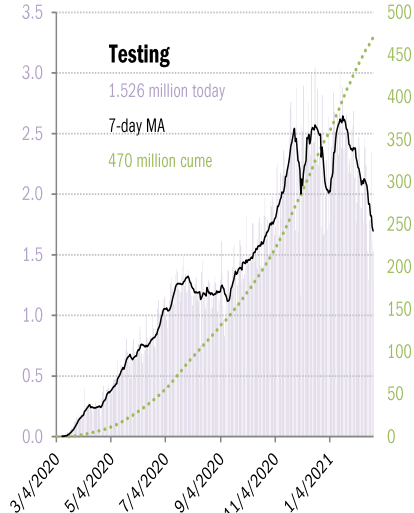
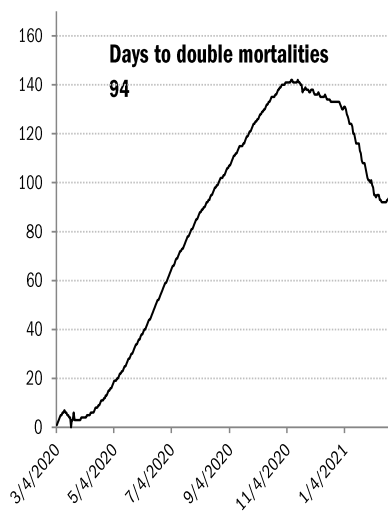
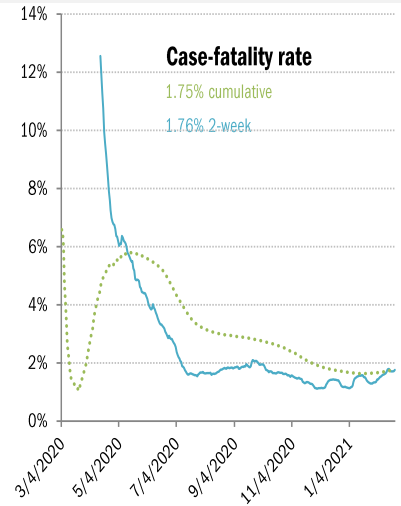
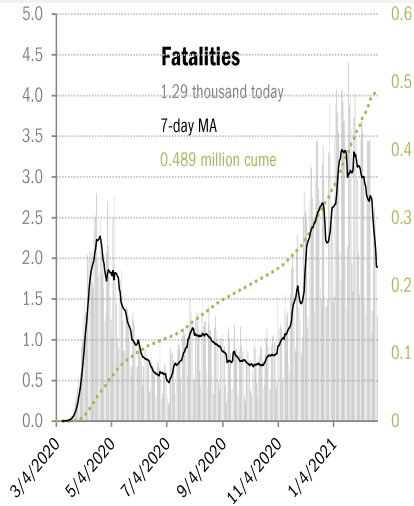
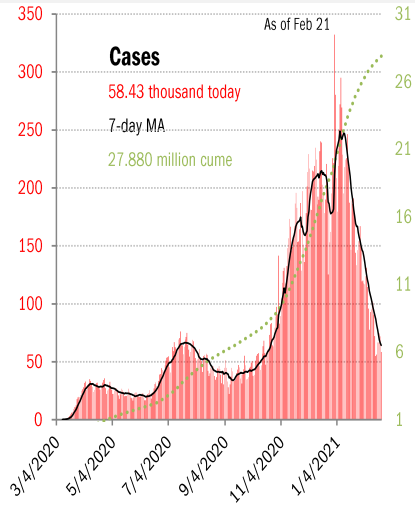
WA 21.3% 13.4% 5.4%	ID 20.0% 12.4% 5.2%	MT 24.3% 15.5% 6.6%	ND 26.1% 16.7% 8.6%	MN 22.8% 14.0% 6.1%	IL 23.1% 13.8% 4.4%	MI 22.8% 12.7% 6.5%	NY 21.4% 12.2% 6.0%	MA 25.2% 15.3% 5.3%		
OR 21.9% 13.1% 6.3%	NV 21.0% 13.0% 5.4%	WY 26.1% 15.5% 6.8%	SD 30.2% 17.7% 8.6%	IA 22.4% 14.1% 4.7%	IN 22.1% 13.0% 5.8%	OH 21.5% 12.7% 5.6%	PA 23.4% 13.0% 4.9%	NJ 21.6% 13.2% 5.7%	CT 27.6% 16.3% 7.6%	RI 23.2% 12.9% 5.8%
CA 23.2% 13.7% 5.0%	UT 20.5% 11.1% 4.6%	CO 23.4% 14.2% 6.6%	NE 25.0% 13.0% 6.1%	MO 20.8% 12.0% 5.5%	KY 22.5% 12.7% 5.7%	WV 26.9% 16.2% 9.7%	VA 22.8% 13.7% 5.9%	MD 24.0% 12.3% 5.7%	DE 21.0% 13.7% 4.8%	
AZ 23.2% 14.9% 5.2%	NM 28.9% 18.8% 9.3%	KS 22.2% 12.3% 5.1%	AR 22.9% 12.2% 5.2%	TN 21.6% 11.1% 5.2%	NC 22.5% 13.1% 6.6%	SC 20.7% 12.4% 4.9%	DC 31.9% 15.5% 7.5%			
OK 26.8% 14.8% 6.9%	LA 22.4% 12.7% 6.5%	MS 21.9% 11.8% 4.7%	AL 22.1% 11.6% 4.5%	GA 21.6% 11.3% 5.7%						
HI 28.1% 15.5% 7.3%	TX 19.5% 11.3% 4.8%	FL 23.8% 13.4% 6.9%	PR 25.3% 10.0% 4.8%							

As of Feb 21

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

US deep-dive

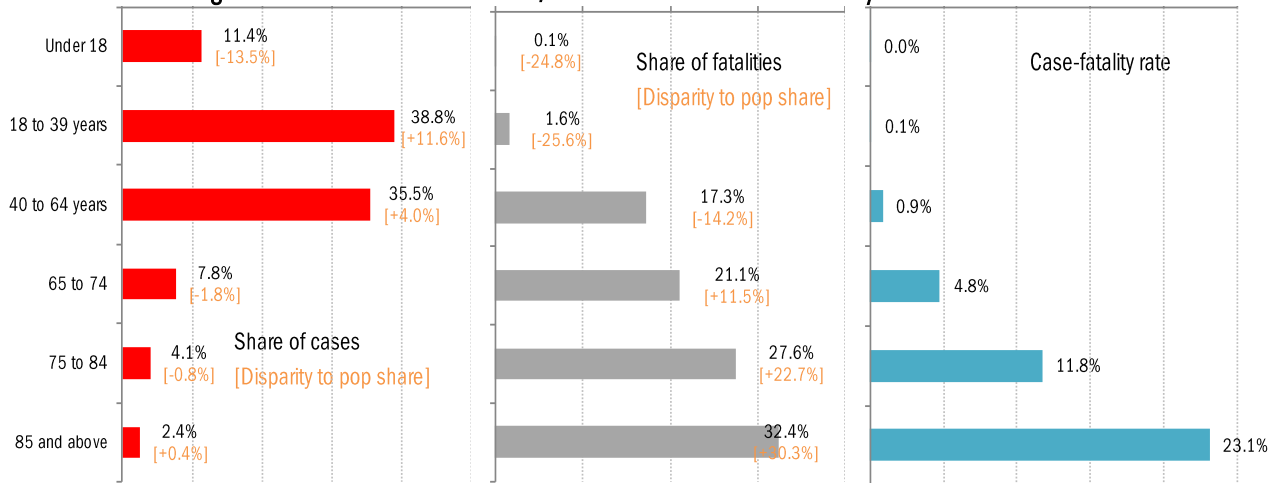
National and state-by-state data do not line up because of different sources



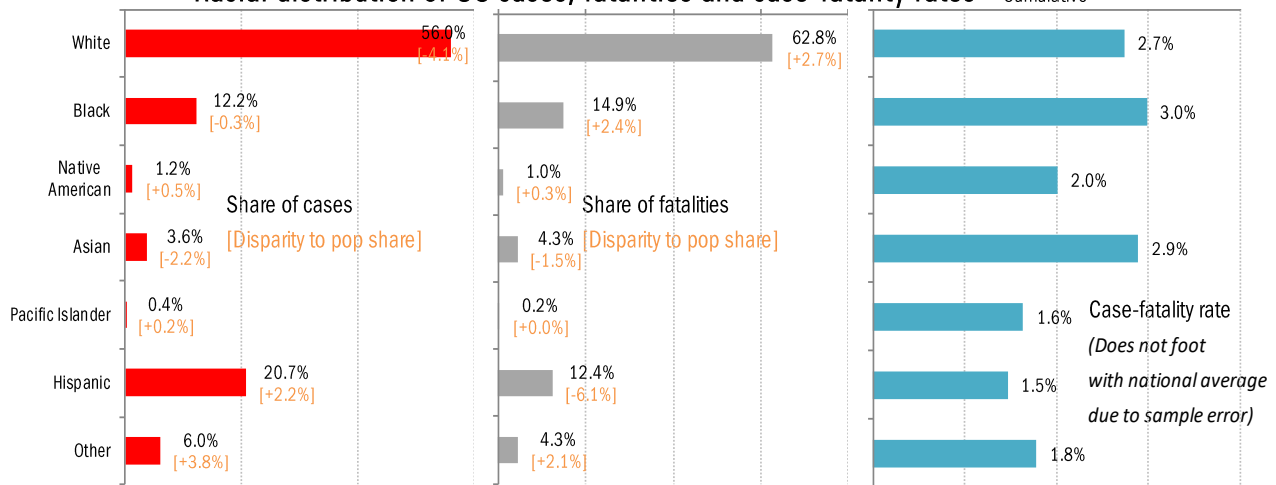
Source: [Covid Tracking Project](#), TrendMacro calculations

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

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

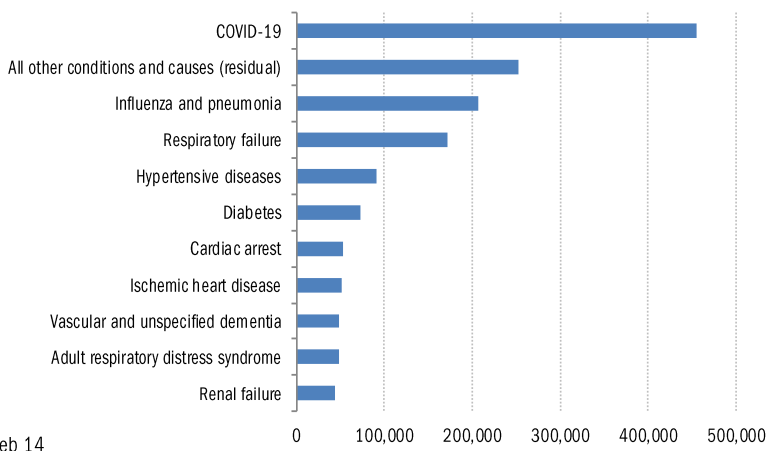


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



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

[U.K. Approves Study That Will Deliberately Infect Volunteers With Coronavirus](#)

Benjamin Mueller
New York Times
February 17, 2021

[Dr. Moncef Slaoui calls out Biden for claiming COVID vaccine distribution as his administration's own](#)

Angelica Stabile
Fox News
February 17, 2021

[Why Cuomo Should Be Worried About a Federal Probe](#)

John B. Daukas
Wall Street Journal
February 21, 2021

[Pfizer-BioNTech Shot Stops Covid's Spread, Israeli Study Shows](#)

Naomi Kresge and Jason Gale
Bloomberg
February 21, 2021

[Art Mystery Solved: Who Wrote on Edvard Munch's 'The Scream'?](#)

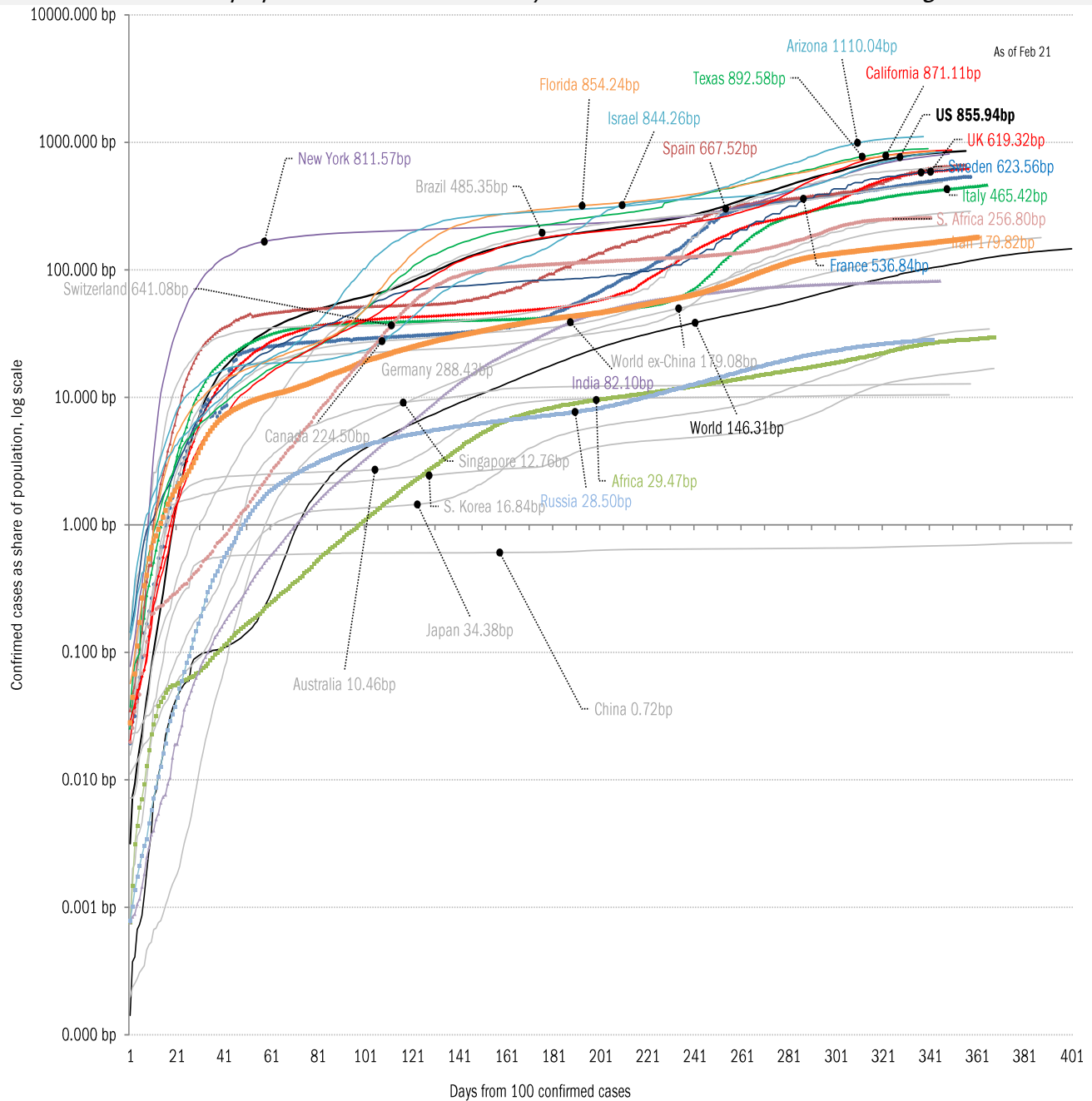
Nina Siegal
New York Times
February 21, 2021

Meme of day



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

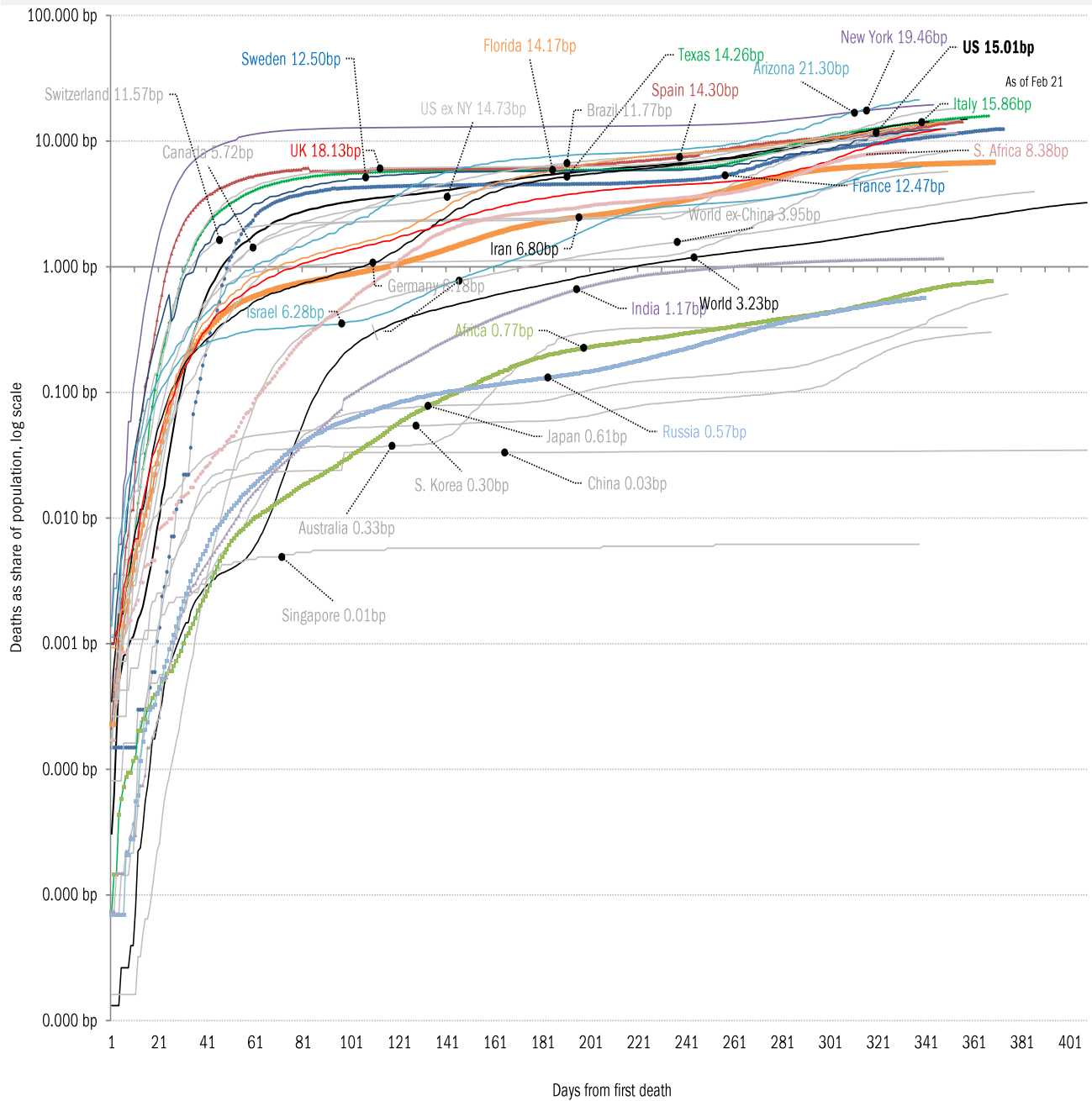
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

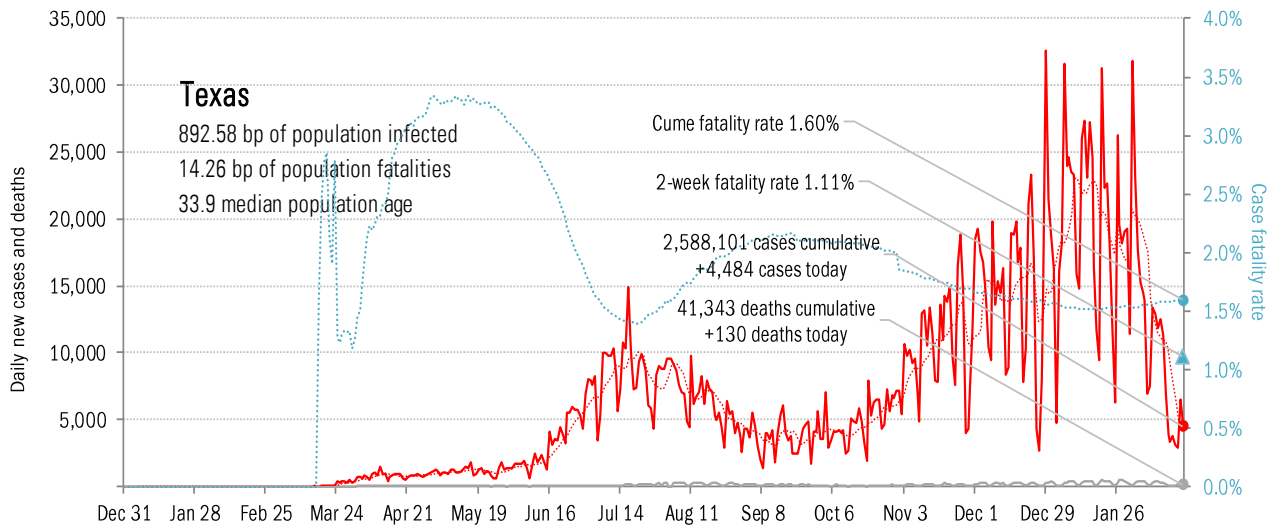
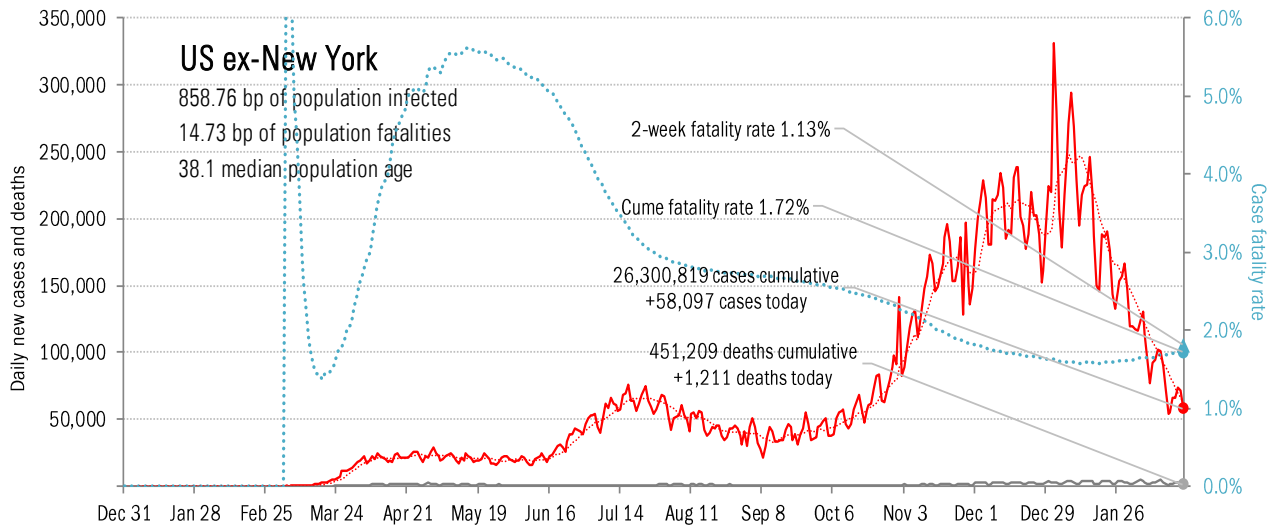
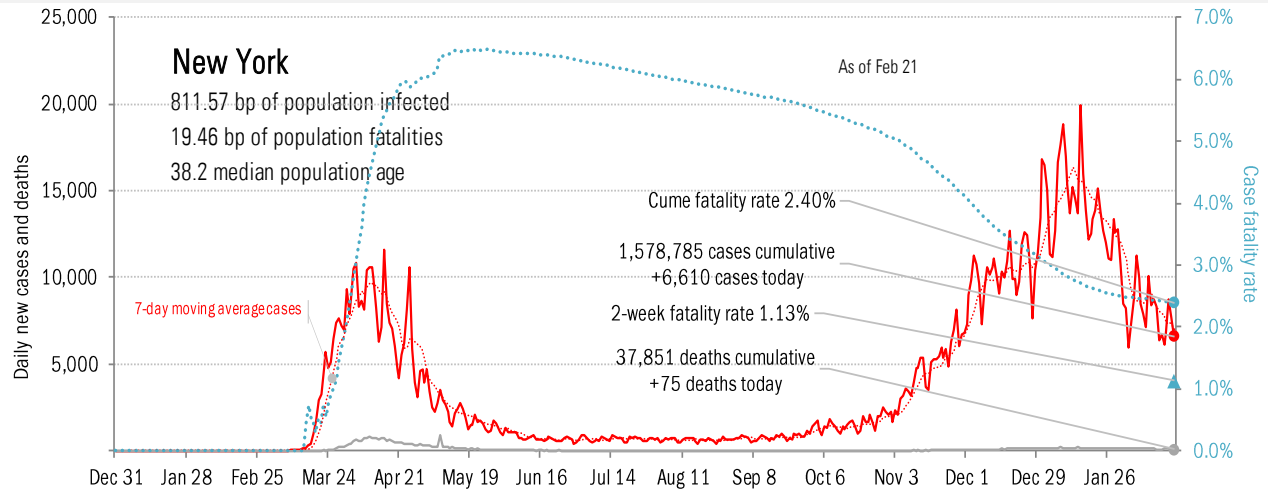
14-day moving average, last 14 days *Most recent value displayed* ● High ● Low

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



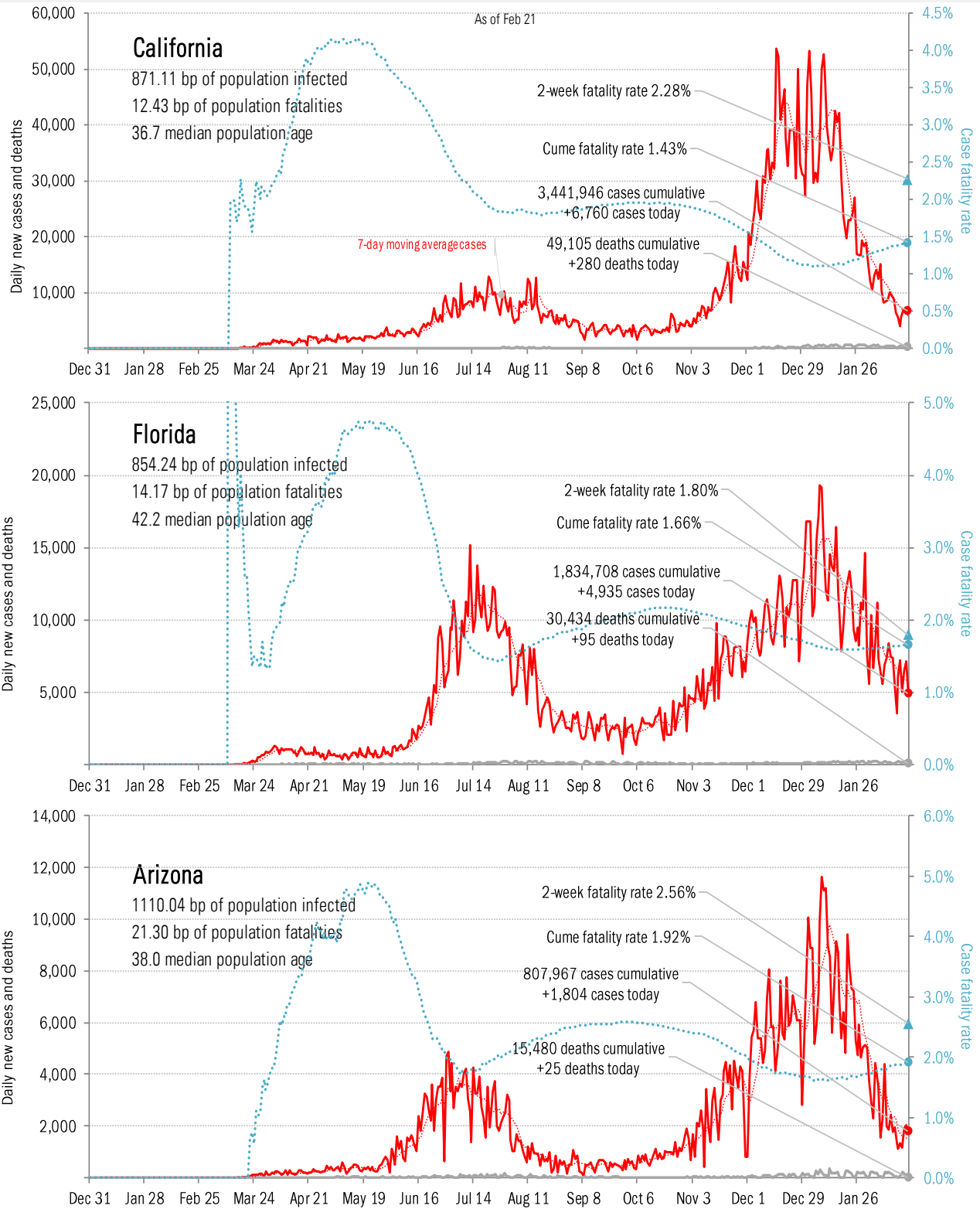
Source: [Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



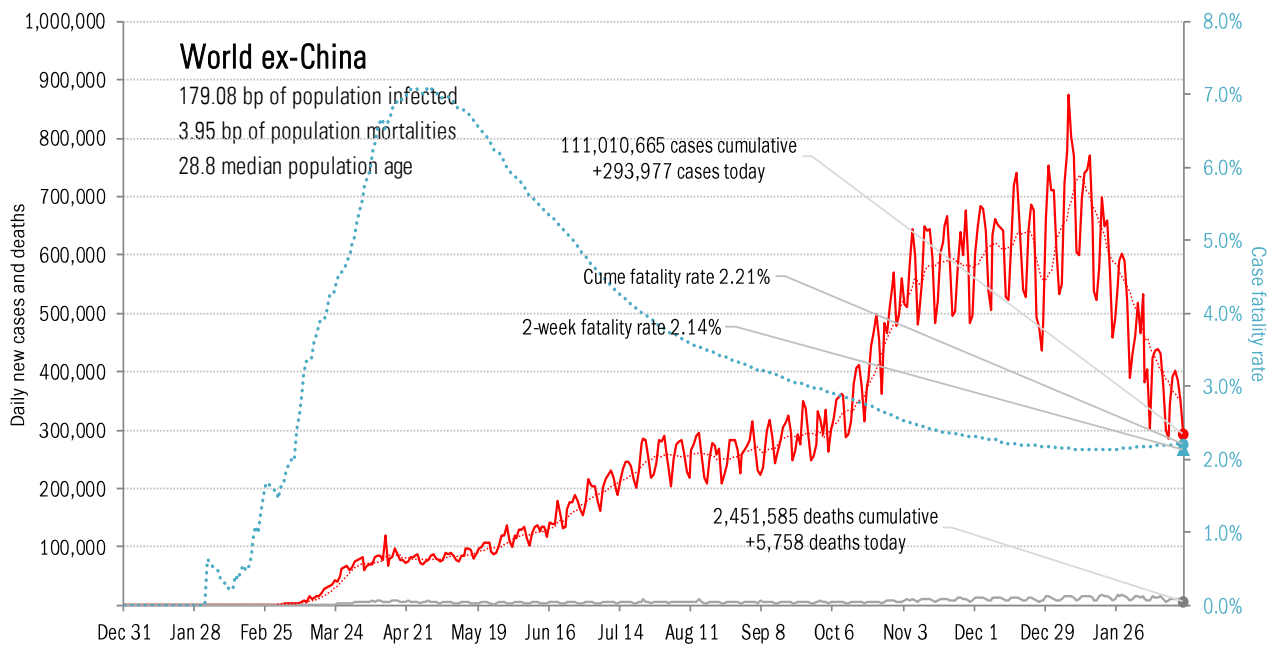
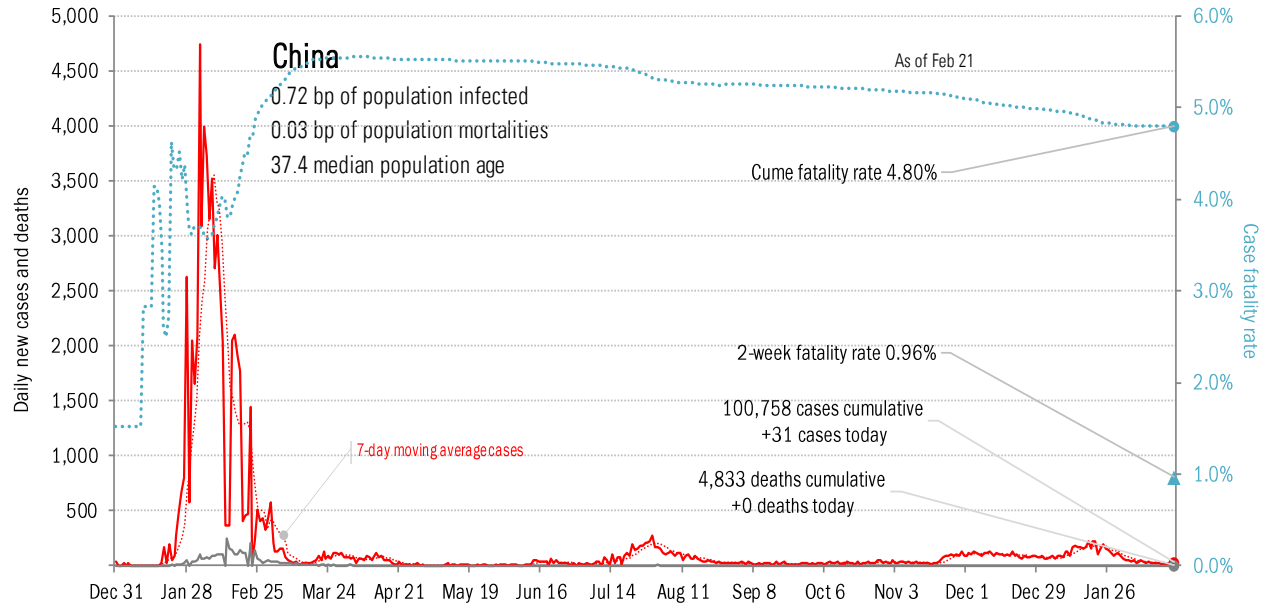
Source: [Covid Tracking Project](#), TrendMacro calculations

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



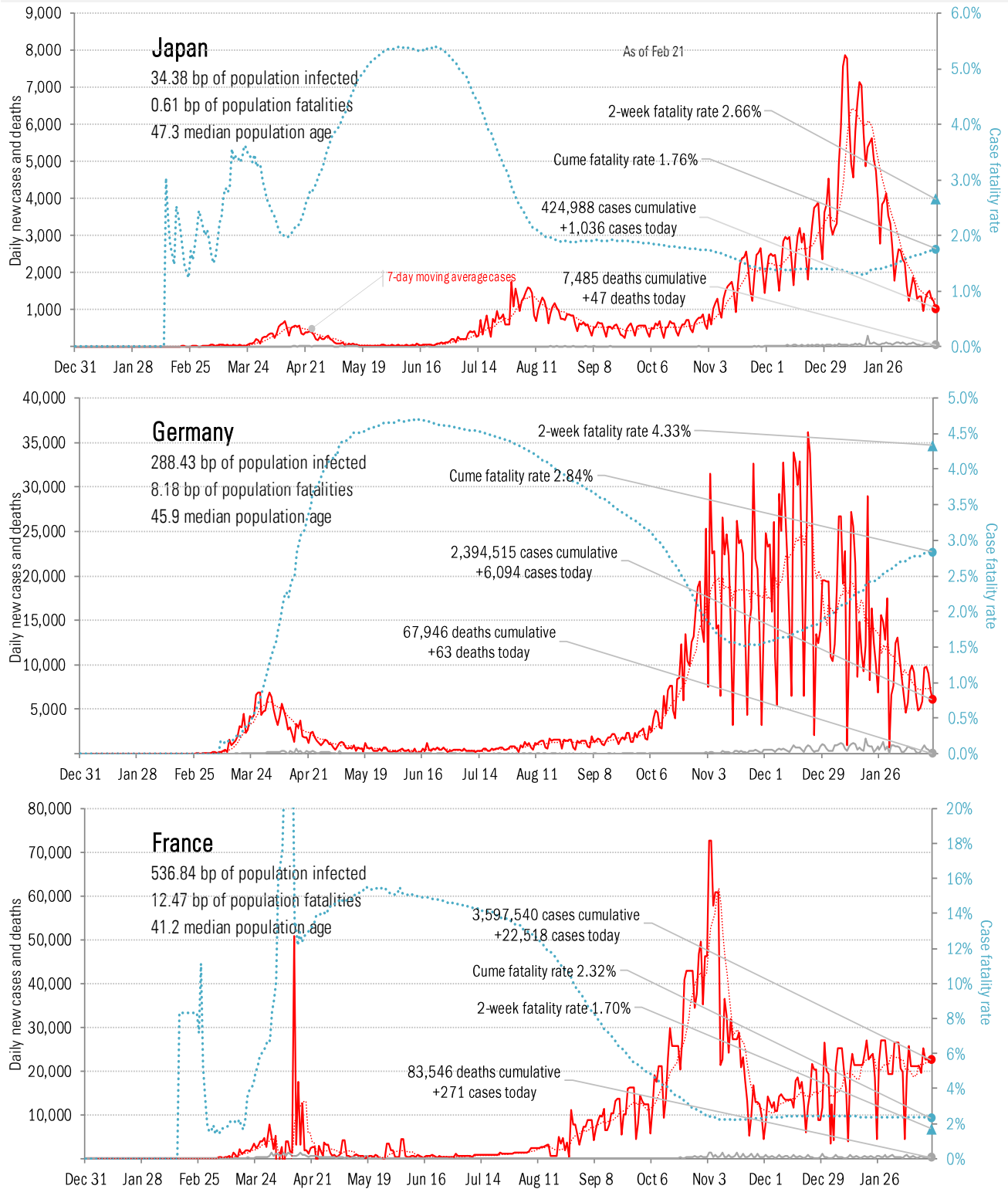
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



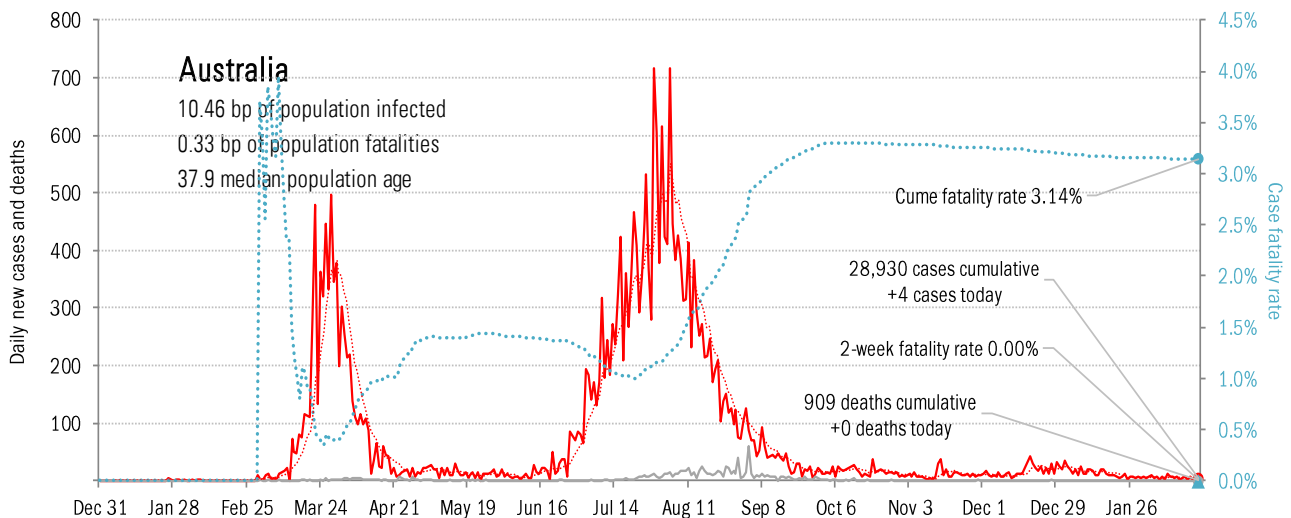
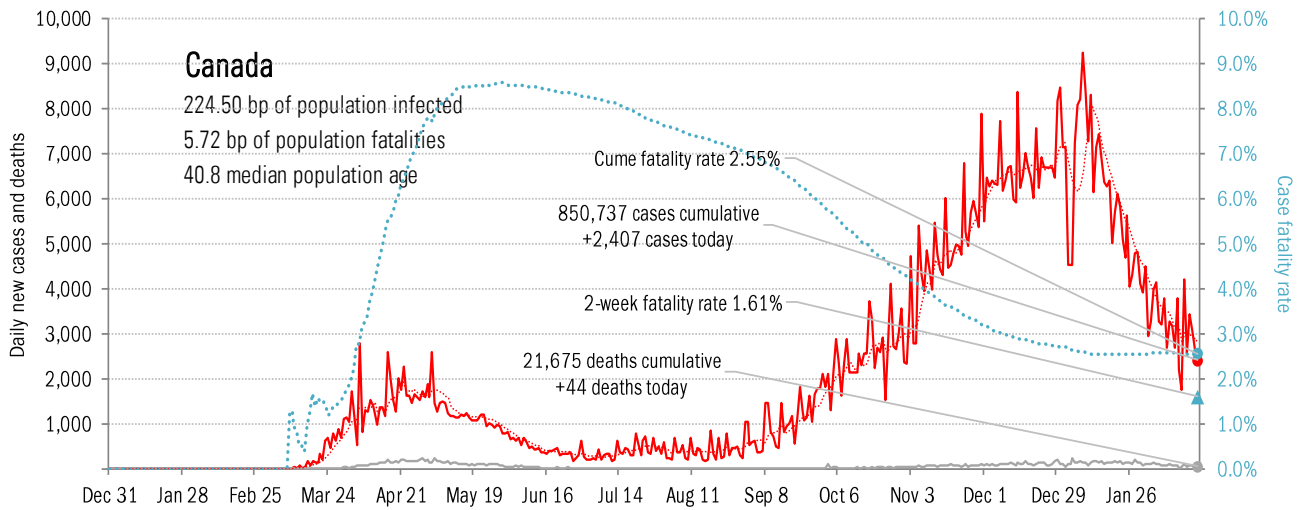
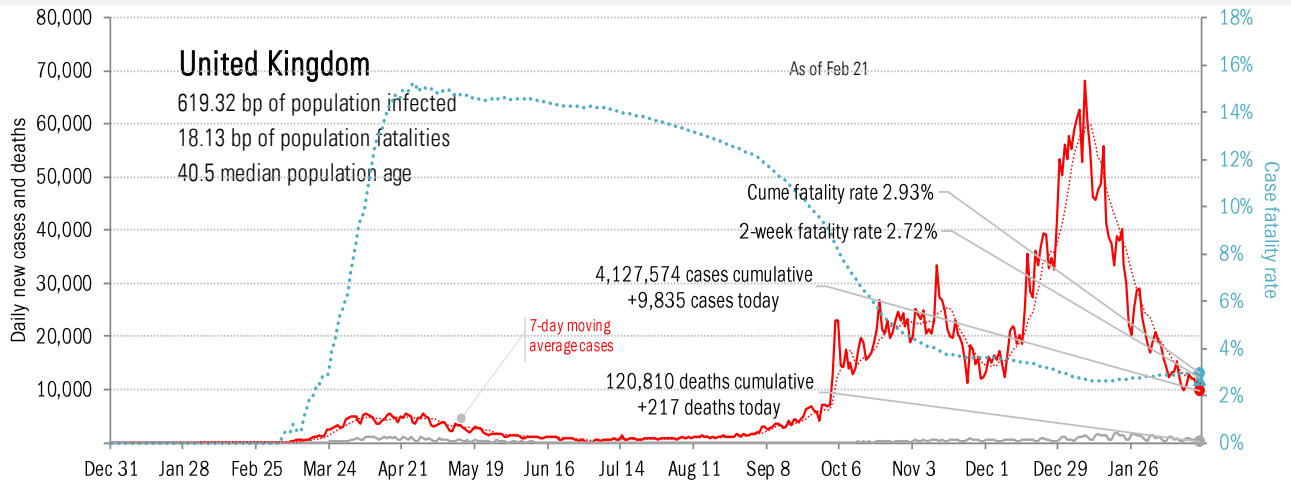
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



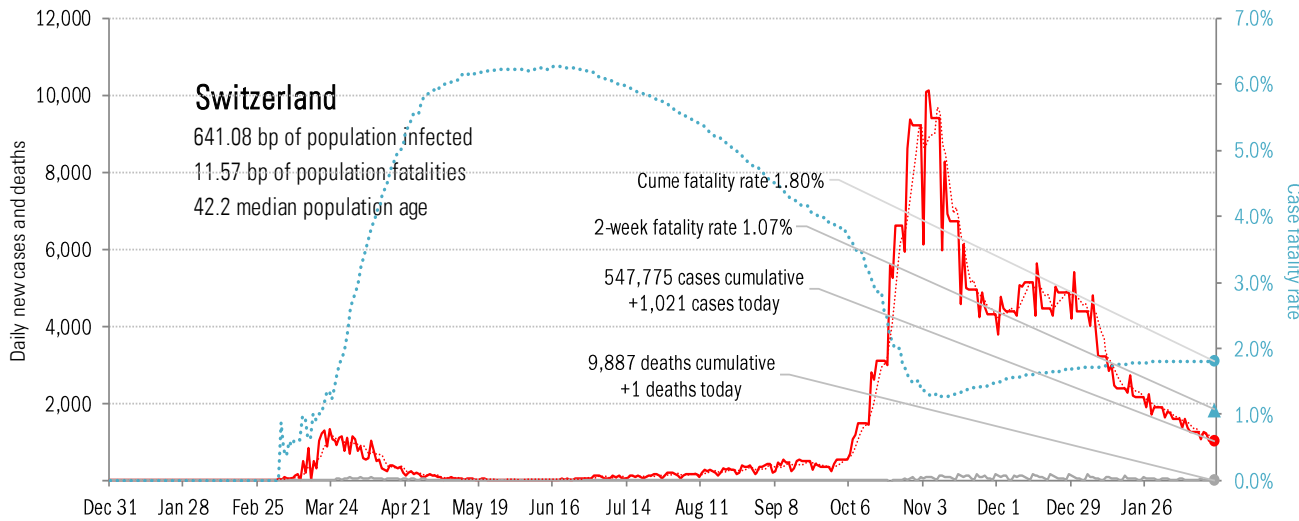
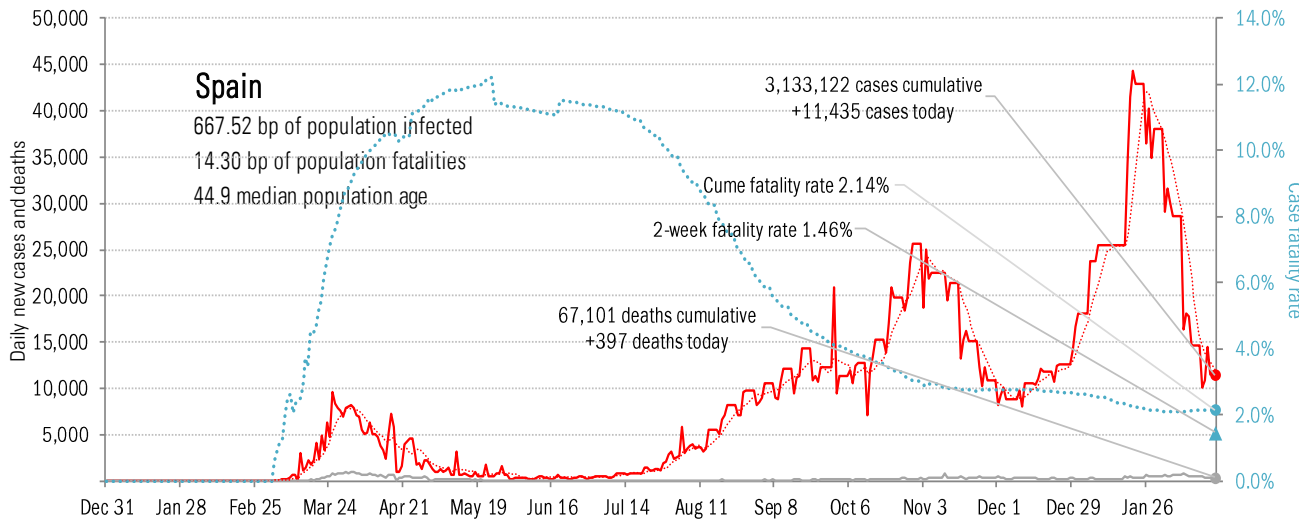
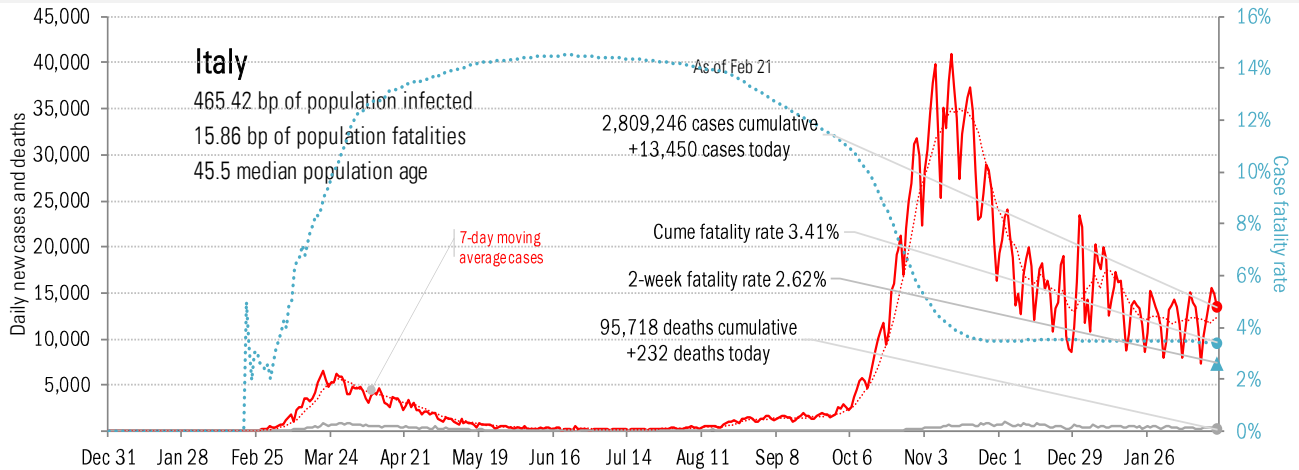
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



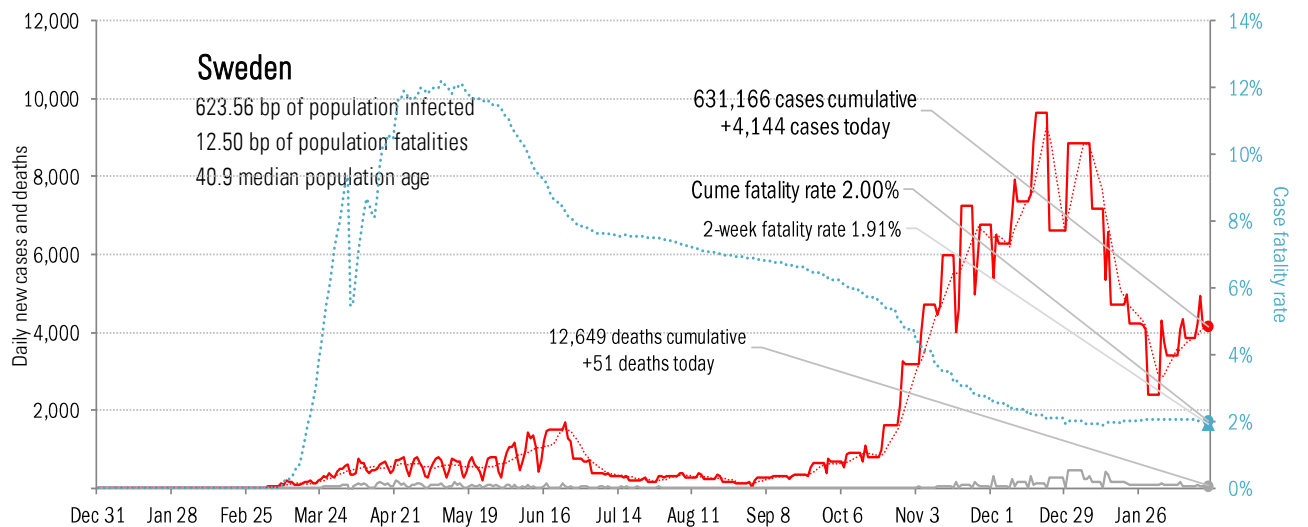
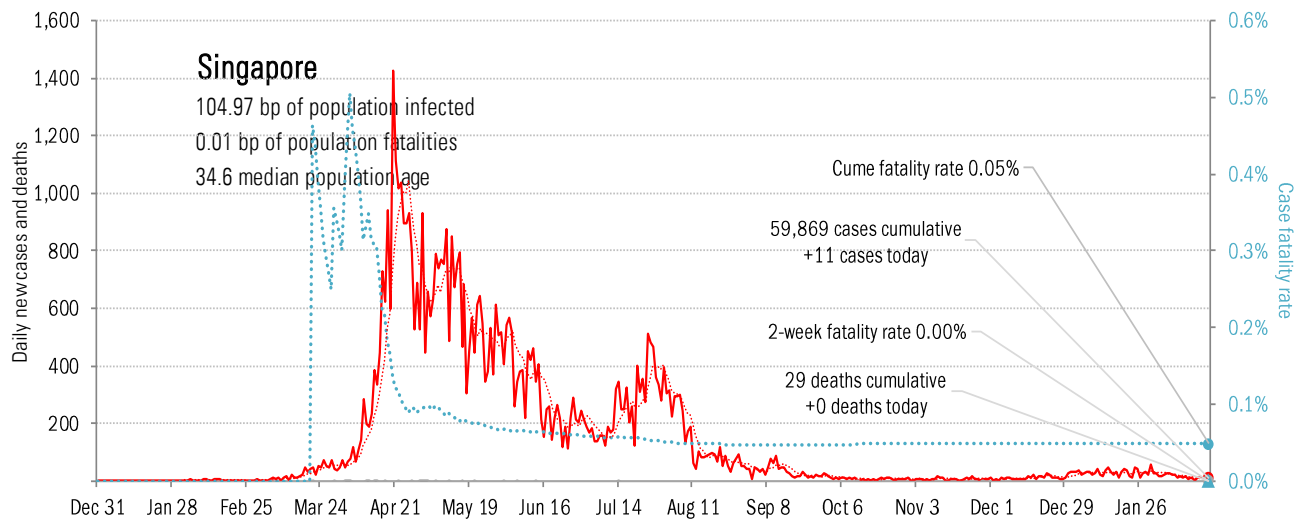
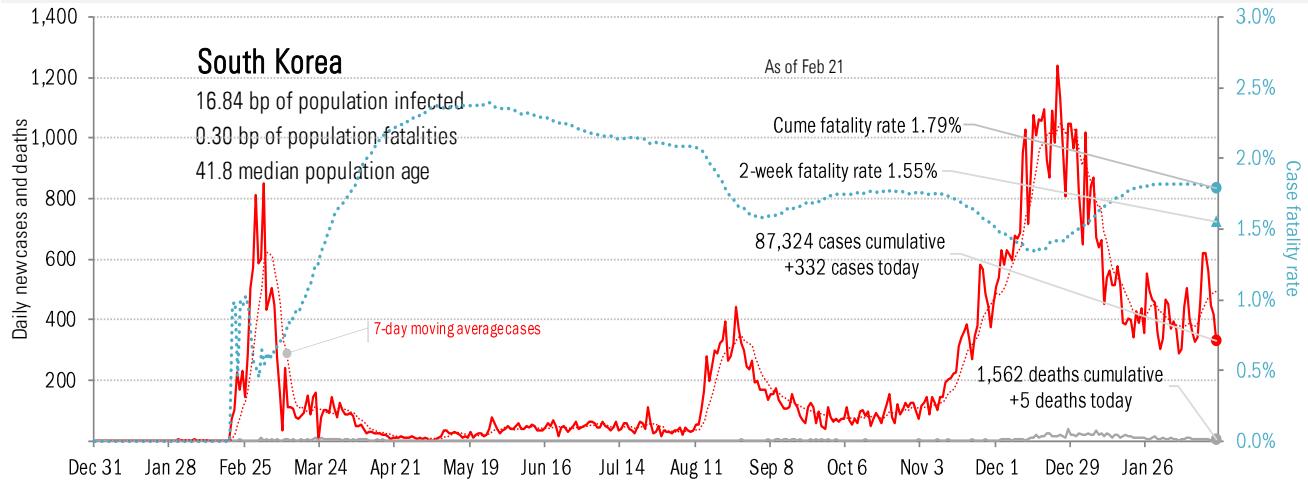
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



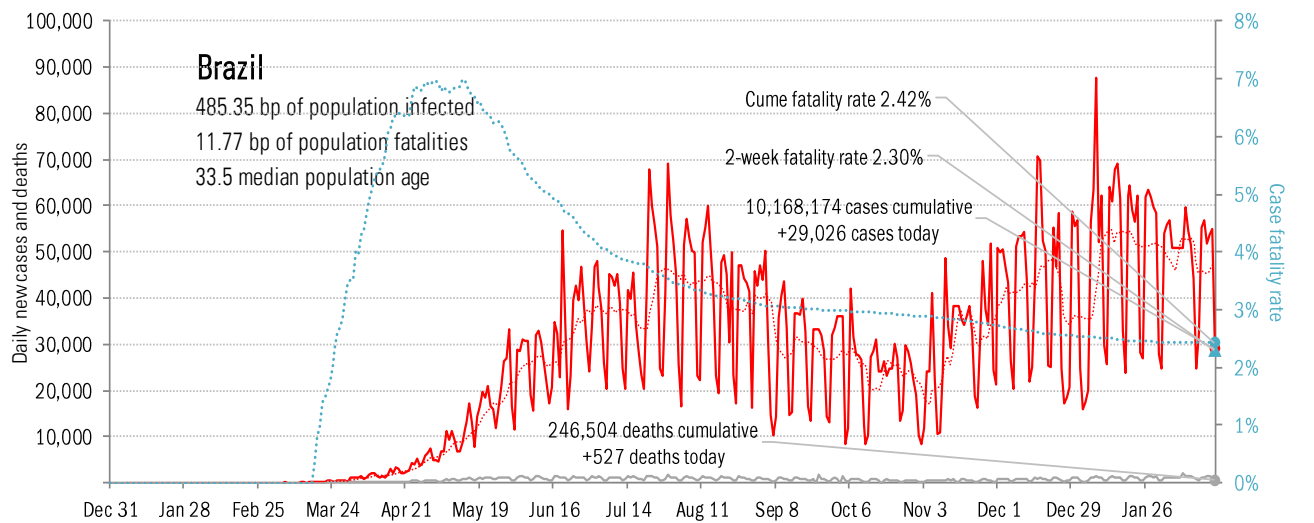
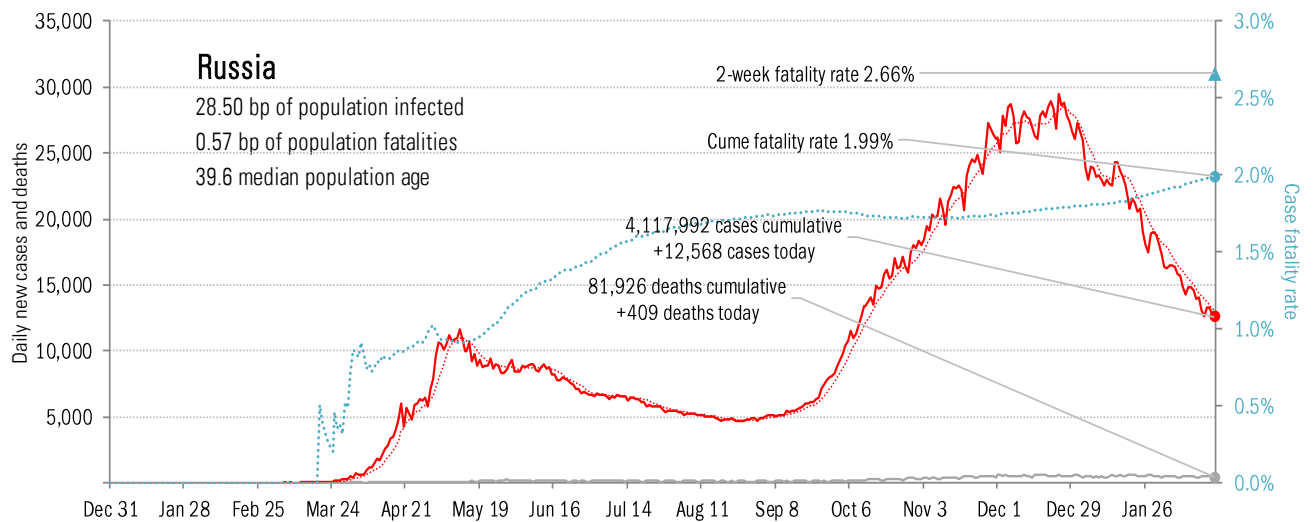
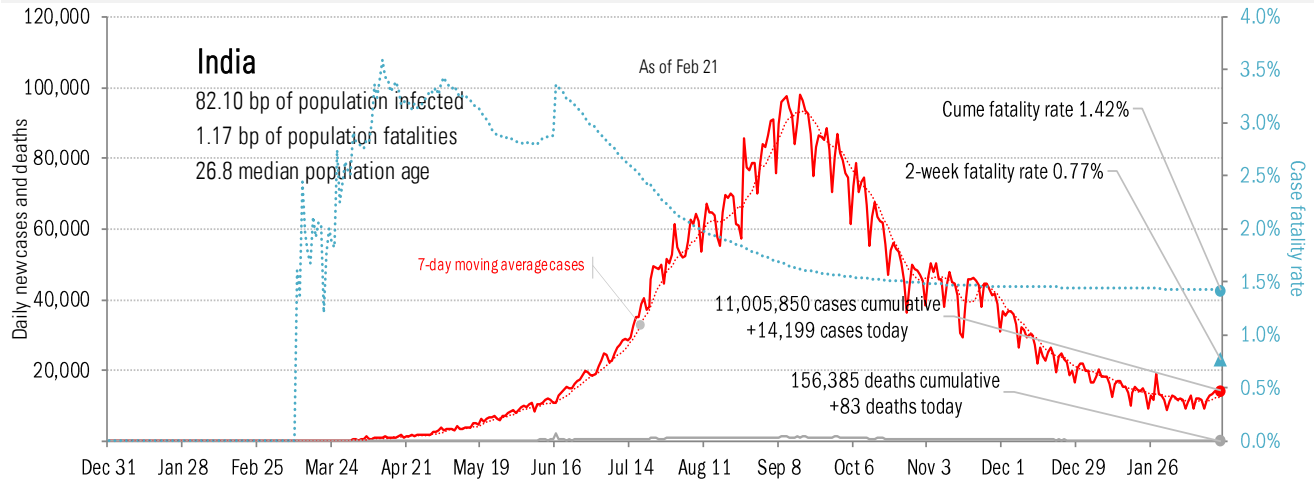
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



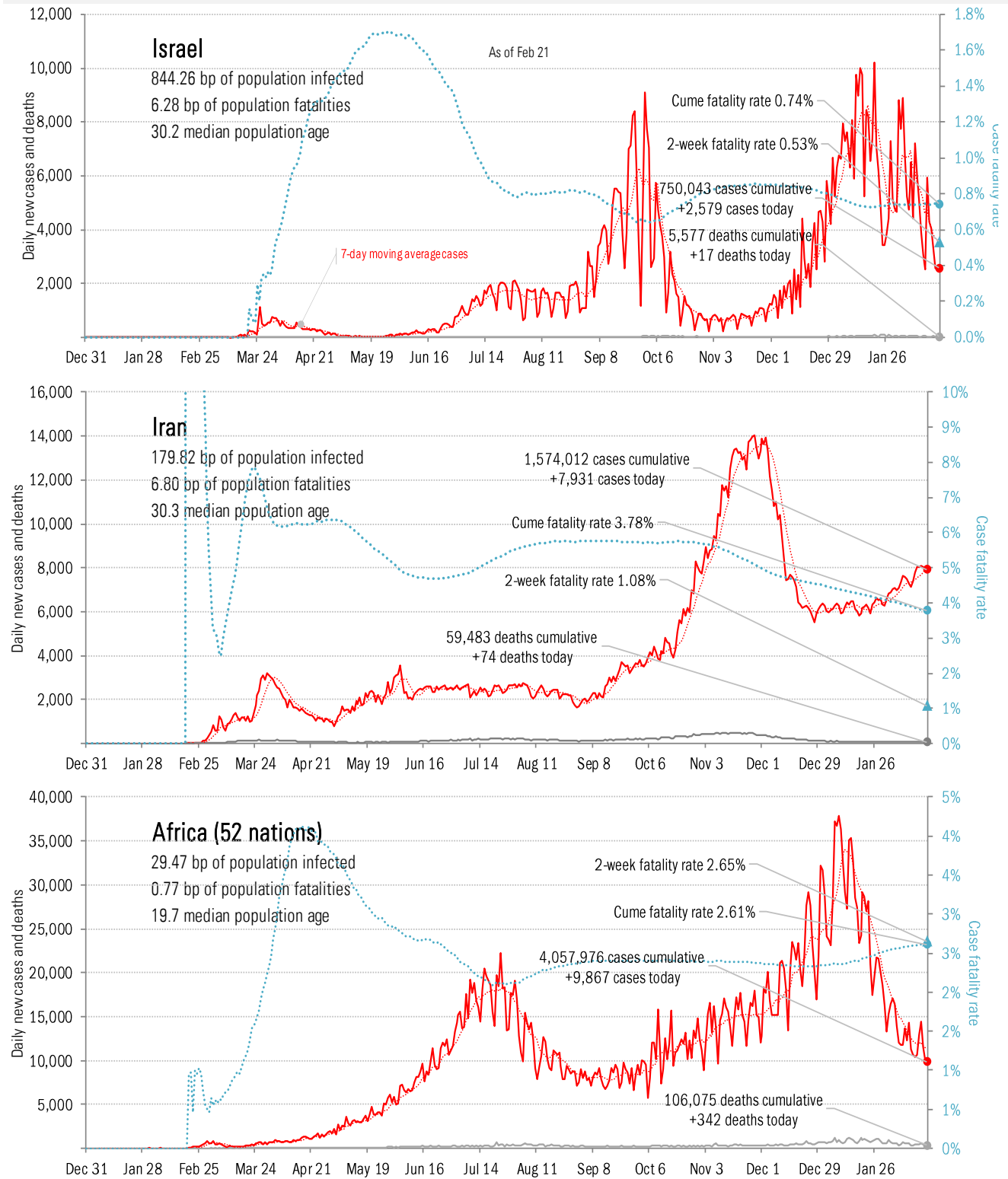
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



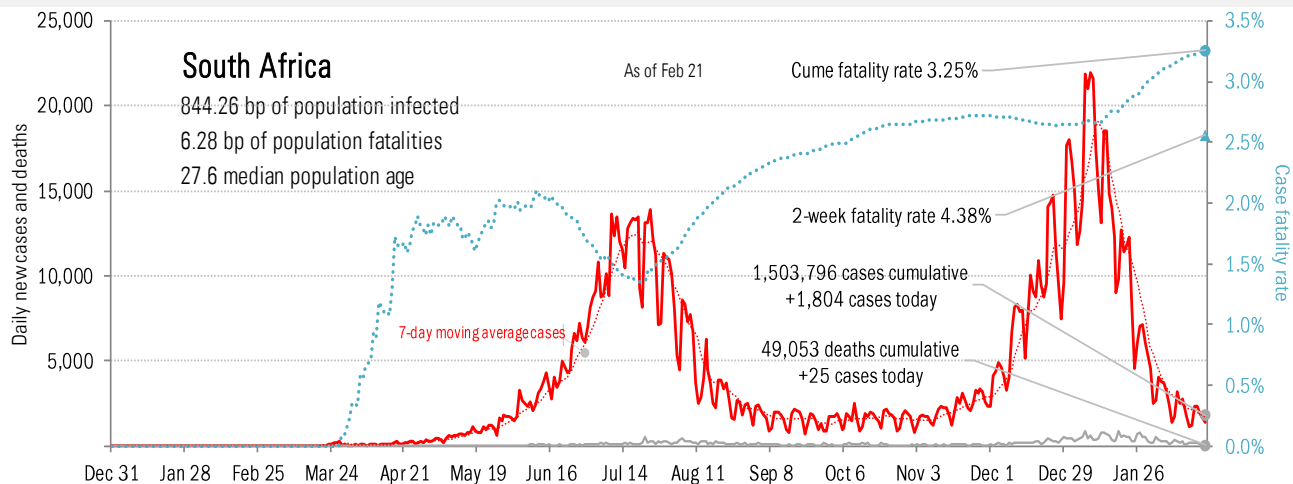
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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