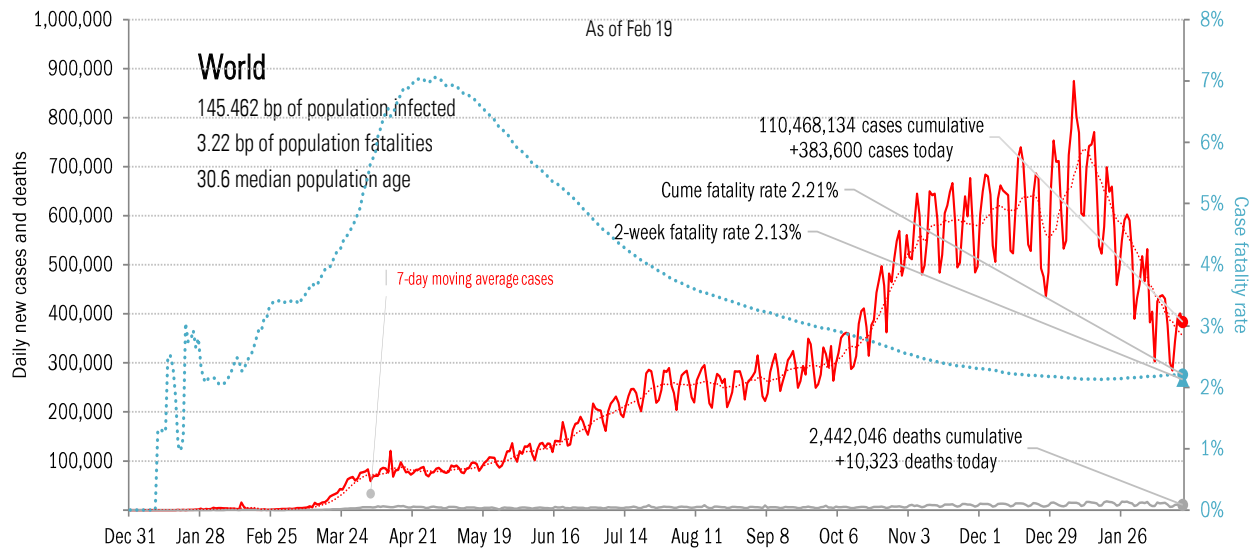
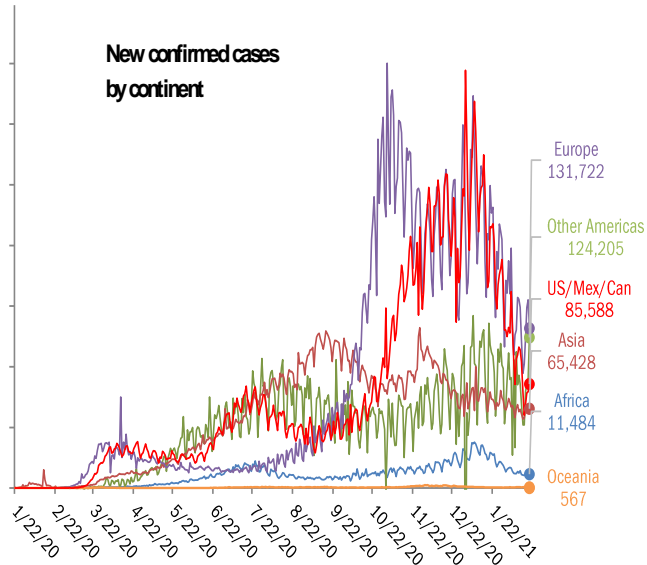


Data Insights: Covid-2019 Monitor

Saturday, February 20, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+ 74,676	United States	+ 2,477
Brazil	+ 53,582	Brazil	+ 1,280
Italy	+ 15,470	Mexico	+ 857
India	+ 13,993	United Kingdom	+ 533
Russia	+ 13,242	Germany	+ 496
United Kingdom	+ 12,099	Russia	+ 461
Czechia	+ 11,705	Spain	+ 397
Spain	+ 11,435	Italy	+ 348
Indonesia	+ 10,614	Poland	+ 241
Peru	+ 9,667	Indonesia	+ 183
+226,483		+7,273	
World	+383,600	World	+10,323
Top ten	59%	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

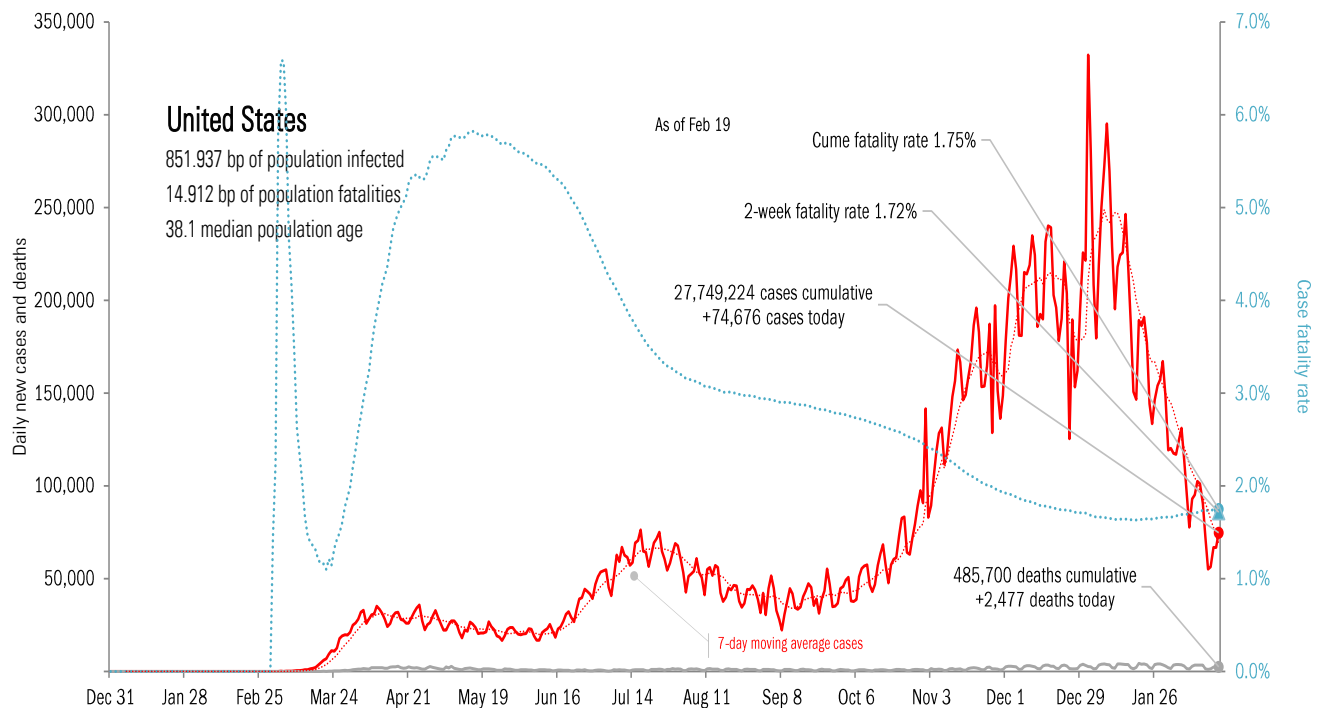
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
NY	+8,710		CA	+420		AR	+5		CA	3,428,518		CA	48,344		NY	89,995		R	103%	GA	86%
CA	+6,798		FL	+224		ND	+5		TX	2,577,131		TX	40,986		FL	78,590		SC	81%	DC	85%
FL	+6,536		GA	+207		HI	+3		FL	1,822,644		NY	37,675		NJ	62,958		MA	81%	AL	84%
GA	+3,679		TX	+172		AS	+0		NY	1,564,483		FL	30,214		AZ	56,732		FL	80%	TX	84%
NC	+3,227		AL	+149		ID	+0		IL	1,170,902		PA	23,480		GA	54,434		GA	79%	DE	82%
NJ	+3,047		AZ	+145		MP	+0		GA	980,411		NJ	22,784		CH	49,213		MD	79%	FL	80%
TX	+2,937		NY	+119		VI	+0		CH	949,695		IL	22,368		AL	44,767		CT	78%	MO	80%
SC	+2,893		KS	+93		WY	+0		PA	908,773		CH	16,693		IN	42,333		NC	77%	CA	80%
PA	+2,778		CH	+82		GU	+1		NC	836,650		GA	16,610		MD	34,265		DC	77%	NC	80%
CH	+2,306		IL	+71		SD	+1		AZ	804,116		MI	16,274		WI	25,635		PA	77%	OK	80%
+42,911			+1,682			+11			15,043,323			275,428			538,922						
All states	+74,676		+2,477			-2418			All states	27,749,224		485,700			853,414			All states	73%	73%	
Top ten	57%		68%			0%			Top ten	54%		57%			63%			Median	72%	70%	

Some states not reporting

Five most improved US states

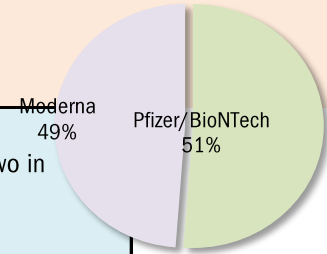
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
NC	-689	CA	-47,504	TX	-382	TX	+10,089
PA	-567	TX	-40,642	VA	-162	CH	+3,916
LA	-387	NY	-37,437	TN	-160	PA	+2,445
AL	-351	FL	-29,766	NY	-139	TN	+2,361
UT	-294	PA	-23,346	CA	-121	NM	+1,853



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
78.15 million doses distributed	+4.78 million/day
59.59 million doses administered	+1.85 million/day
41.98 million persons with one shot	+0.96 million/day
17.04 million persons with two shots	+0.88 million/day
6.29 million shots long-term care residents/staff	+0.11 million/day
76.2% of distributed doses administered	
12.6% of US pop 1 shot	5.1% 2 shots
100% of LTC 1 shot	42.7% 2 shots



At today's dosing pace,
every American will have two in
323 days
by Jan 8, 2022
US will achieve herd immunity in
151 days
by Jul 19, 2021

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

AK
41.0%
19.7%
9.8%

ME
25.0%
14.2%
5.6%

WI
22.3%
14.1%
5.3%

VT
25.6%
13.9%
6.5%

NH
24.2%
12.2%
5.5%

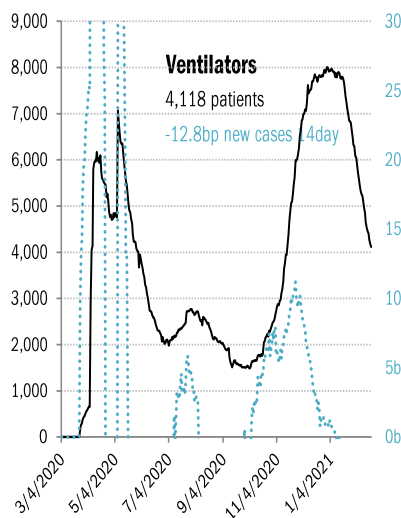
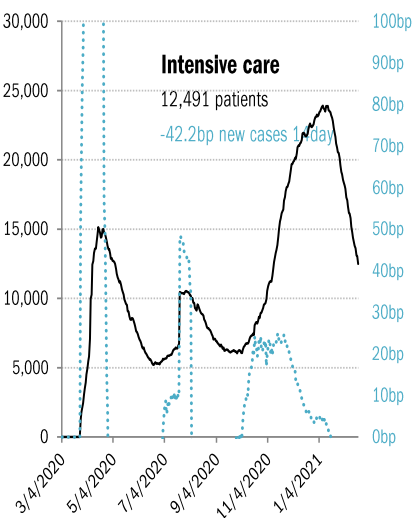
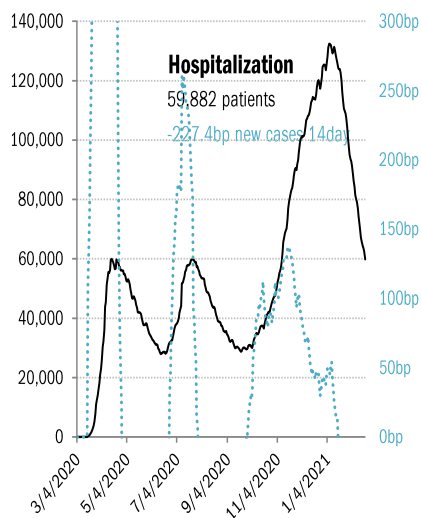
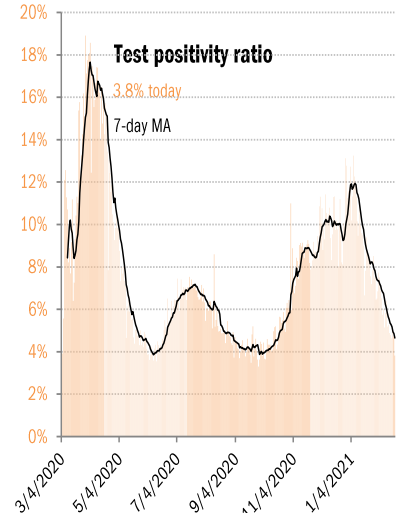
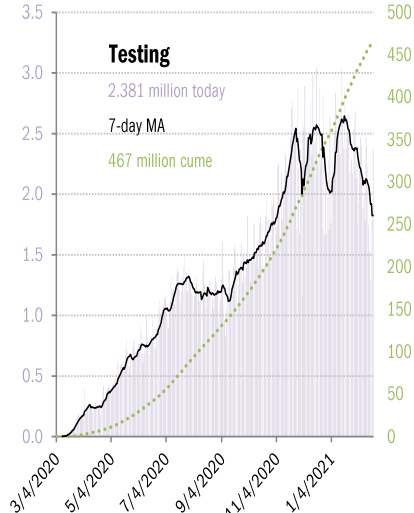
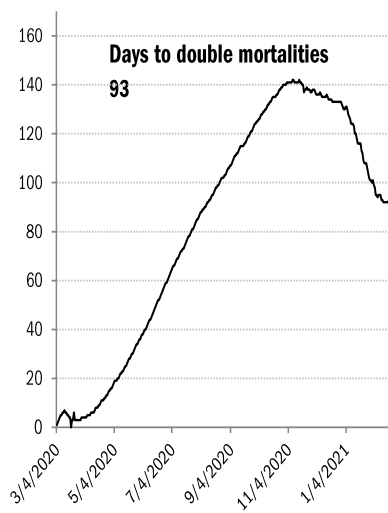
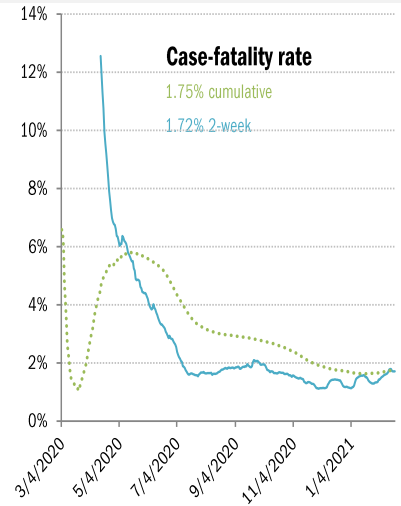
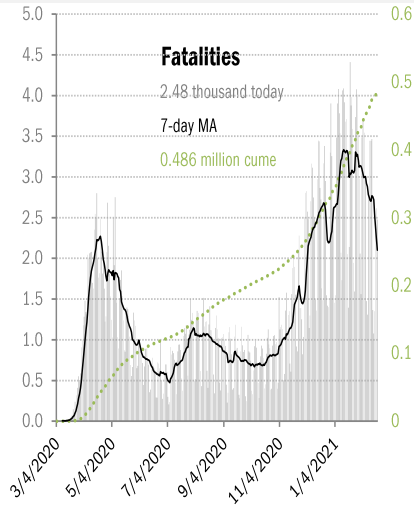
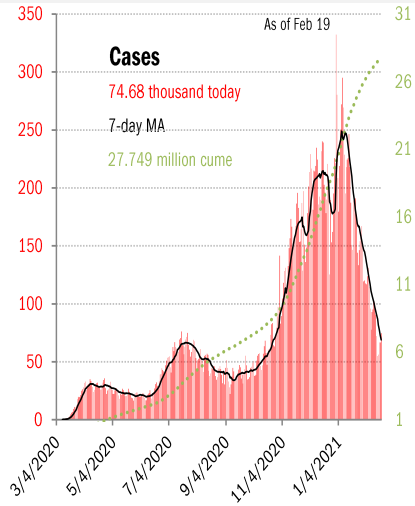
WA 21.0% 12.9% 4.8%	ID 20.0% 11.8% 4.6%	MT 23.5% 14.8% 5.9%	ND 25.2% 16.0% 7.6%	MN 22.5% 13.4% 5.2%	IL 22.8% 13.0% 3.9%	MI 22.7% 12.3% 5.9%	NY 21.4% 11.8% 5.5%	MA 22.9% 14.3% 4.7%		
OR 21.9% 12.6% 5.5%	NV 20.9% 12.4% 4.5%	WY 25.9% 15.1% 6.3%	SD 29.7% 16.8% 7.8%	IA 21.2% 13.1% 4.3%	IN 22.1% 12.5% 5.2%	OH 21.4% 12.3% 4.8%	PA 23.4% 12.5% 4.5%	NJ 20.4% 12.8% 5.2%	CT 26.9% 15.7% 7.1%	RI 23.2% 11.8% 5.4%
CA 23.2% 13.1% 4.4%	UT 20.5% 10.7% 4.2%	CO 23.1% 13.6% 6.0%	NE 24.4% 12.2% 5.7%	MO 19.9% 11.6% 4.8%	KY 22.3% 12.3% 5.1%	WV 26.9% 15.6% 9.0%	VA 22.8% 13.5% 5.4%	MD 23.7% 11.7% 5.0%	DE 21.0% 13.4% 4.5%	
AZ 23.1% 14.2% 4.6%	NM 28.6% 18.1% 8.4%	KS 21.5% 11.5% 4.4%	AR 22.9% 12.0% 5.0%	TN 21.5% 10.8% 5.0%	NC 21.9% 12.8% 5.9%	SC 20.7% 11.9% 4.3%	DC 31.9% 15.1% 7.1%			
OK 26.8% 14.3% 6.1%	LA 21.2% 12.3% 6.1%	MS 21.8% 11.5% 4.4%	AL 22.0% 11.1% 3.9%	GA 21.5% 10.9% 5.0%						
HI 28.1% 14.8% 6.4%	TX 19.0% 11.1% 4.6%	FL 23.1% 13.0% 6.4%	PR 23.9% 9.6% 4.4%							

As of Feb 19

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

US deep-dive

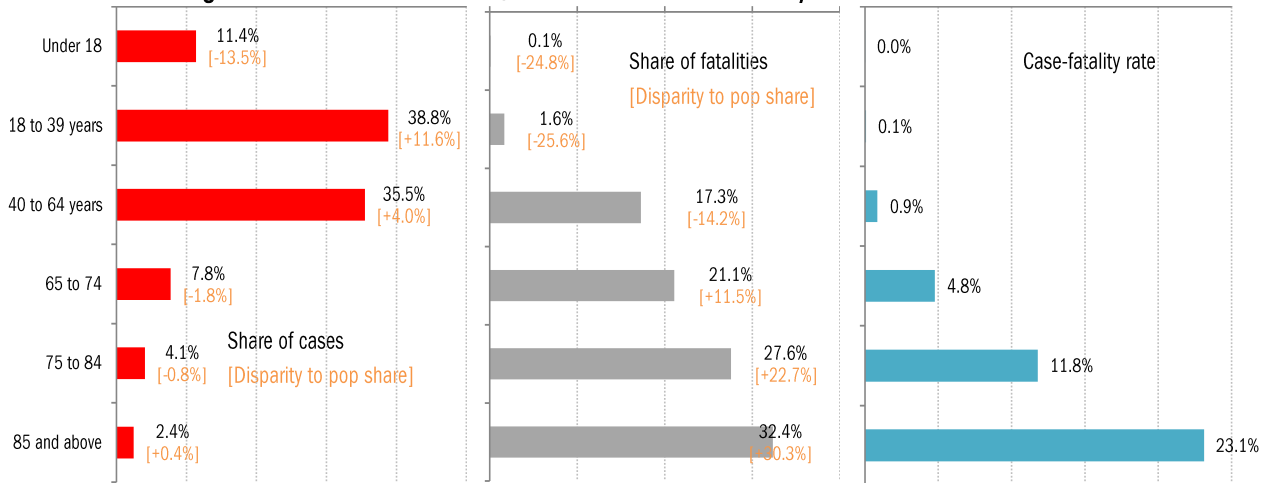
National and state-by-state data do not line up because of different sources



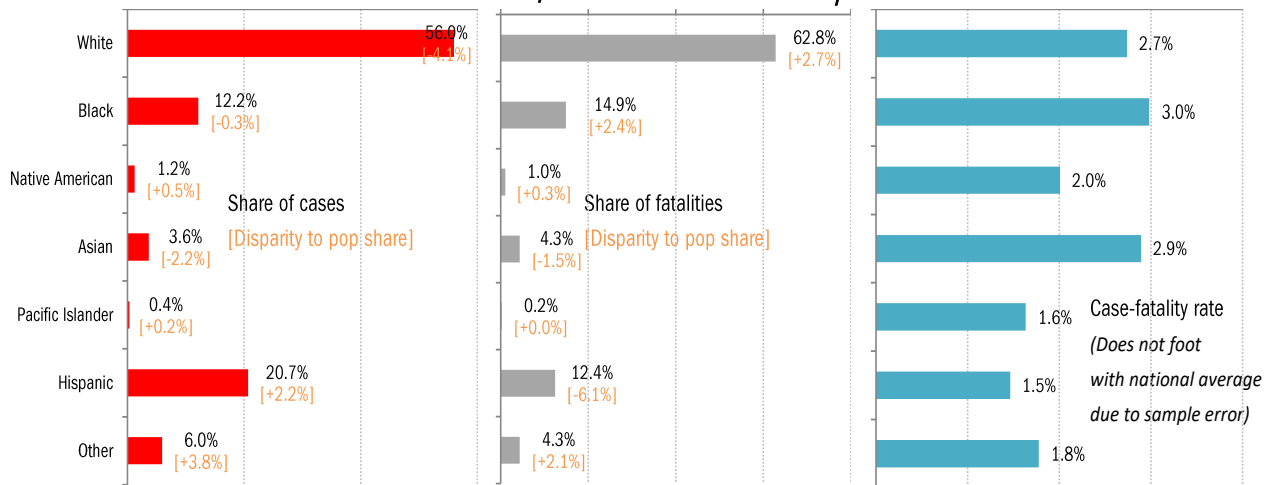
Source: [Covid Tracking Project](#), TrendMacro calculations

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

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

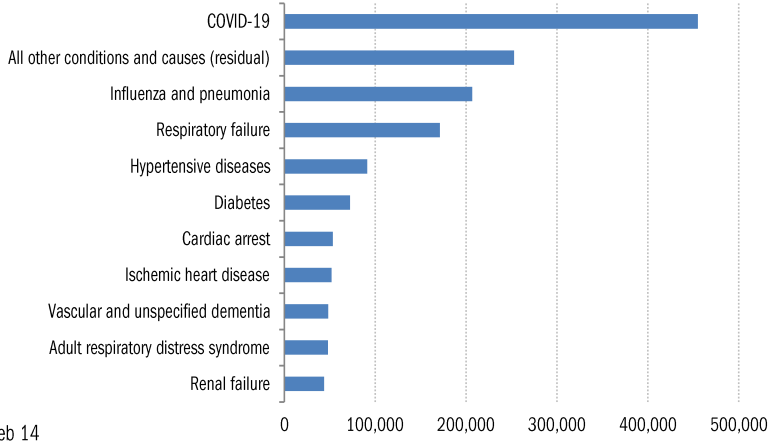


Racial distribution of US cases, fatalities and case-fatality rates Cumulative



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

[Texas-Style Blackouts Are the Future](#)

Holman Jenkins
Wall Street Journal
February 19, 2021

[Two Tales of the Vaccine](#)

Wall Street Journal
February 19, 2021

[The Strange Case of New York's Covid-19 Death Count](#)

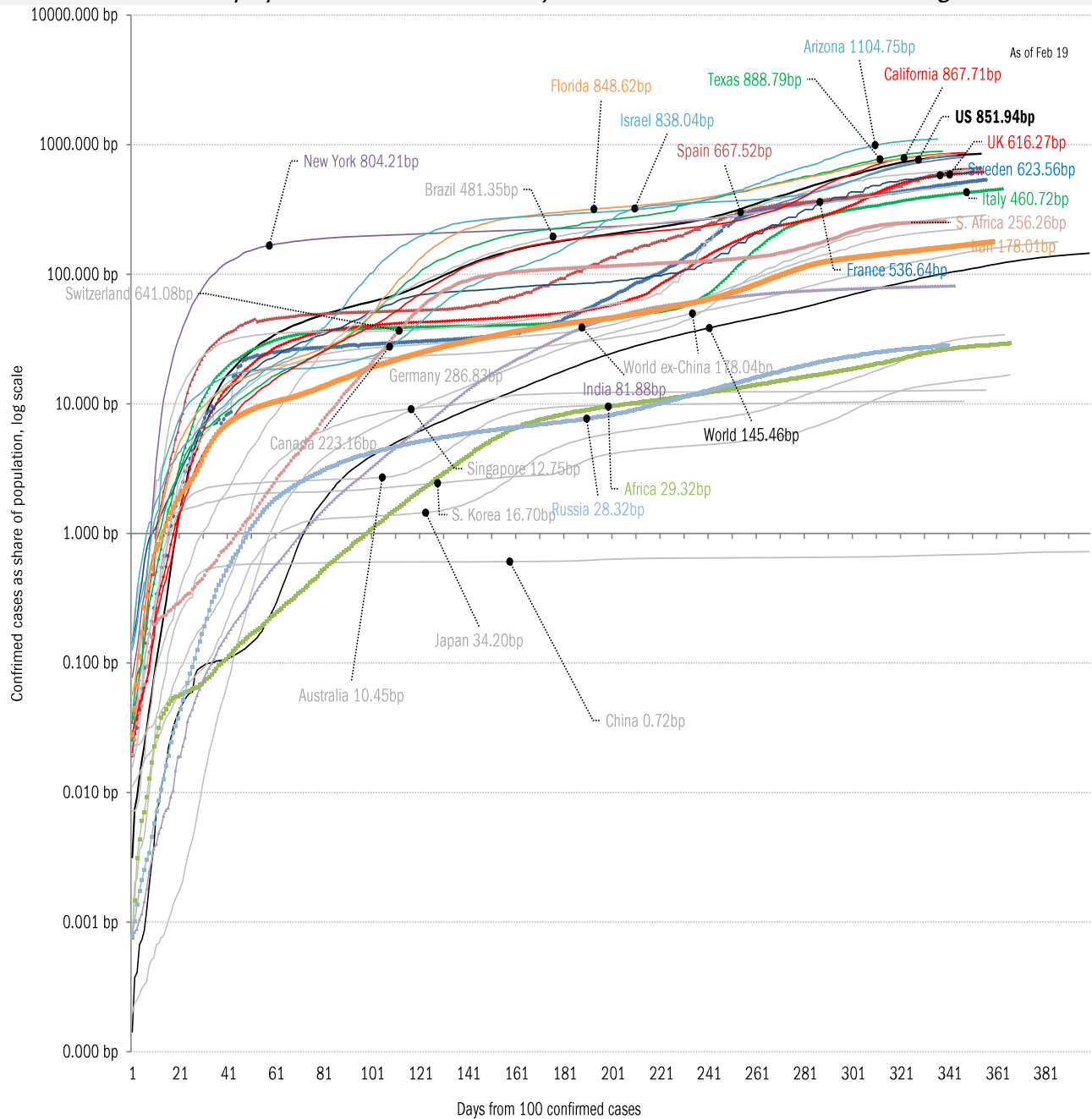
Justin Fox
Bloomberg
February 19, 2021

Meme of day



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

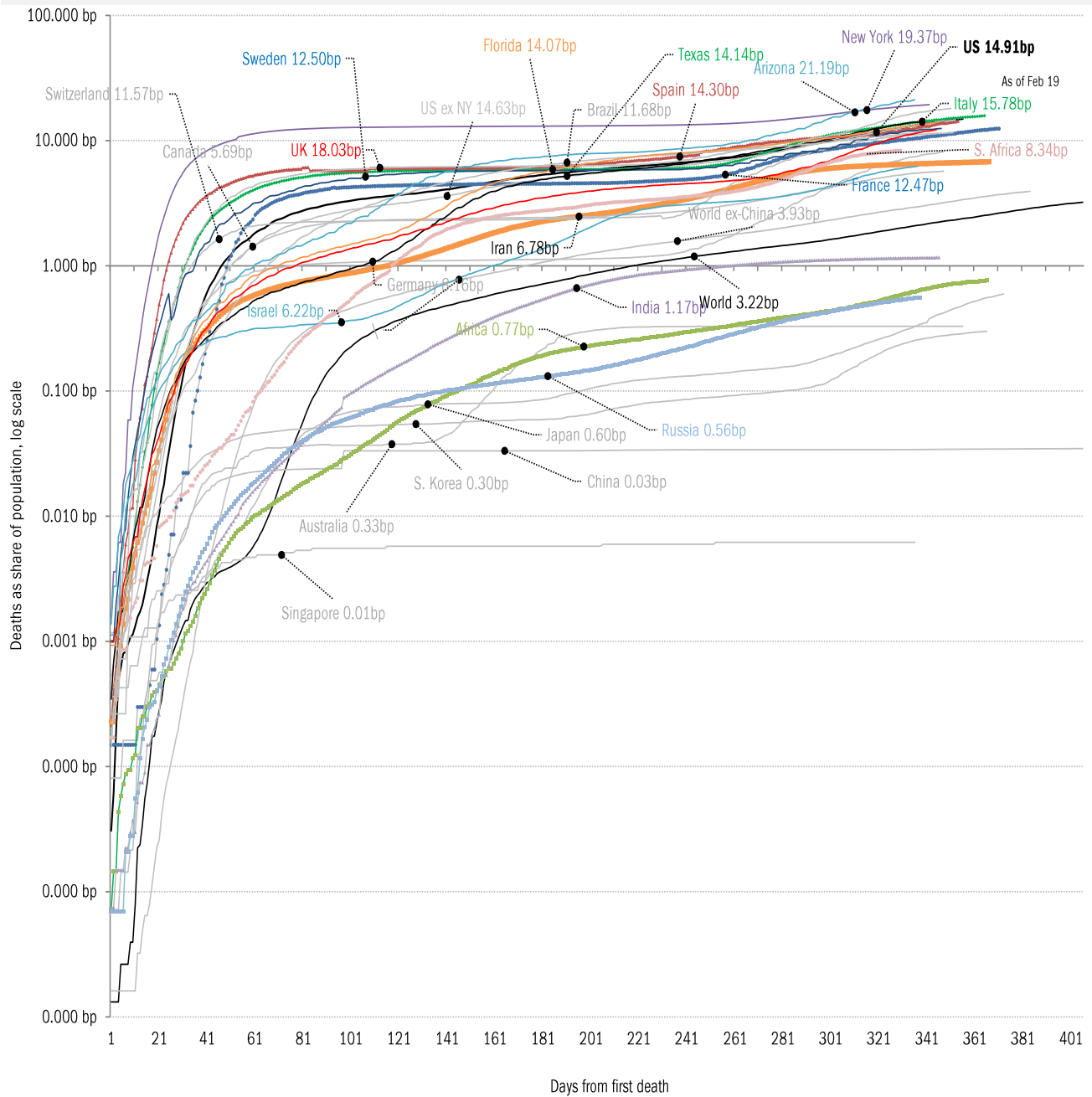
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

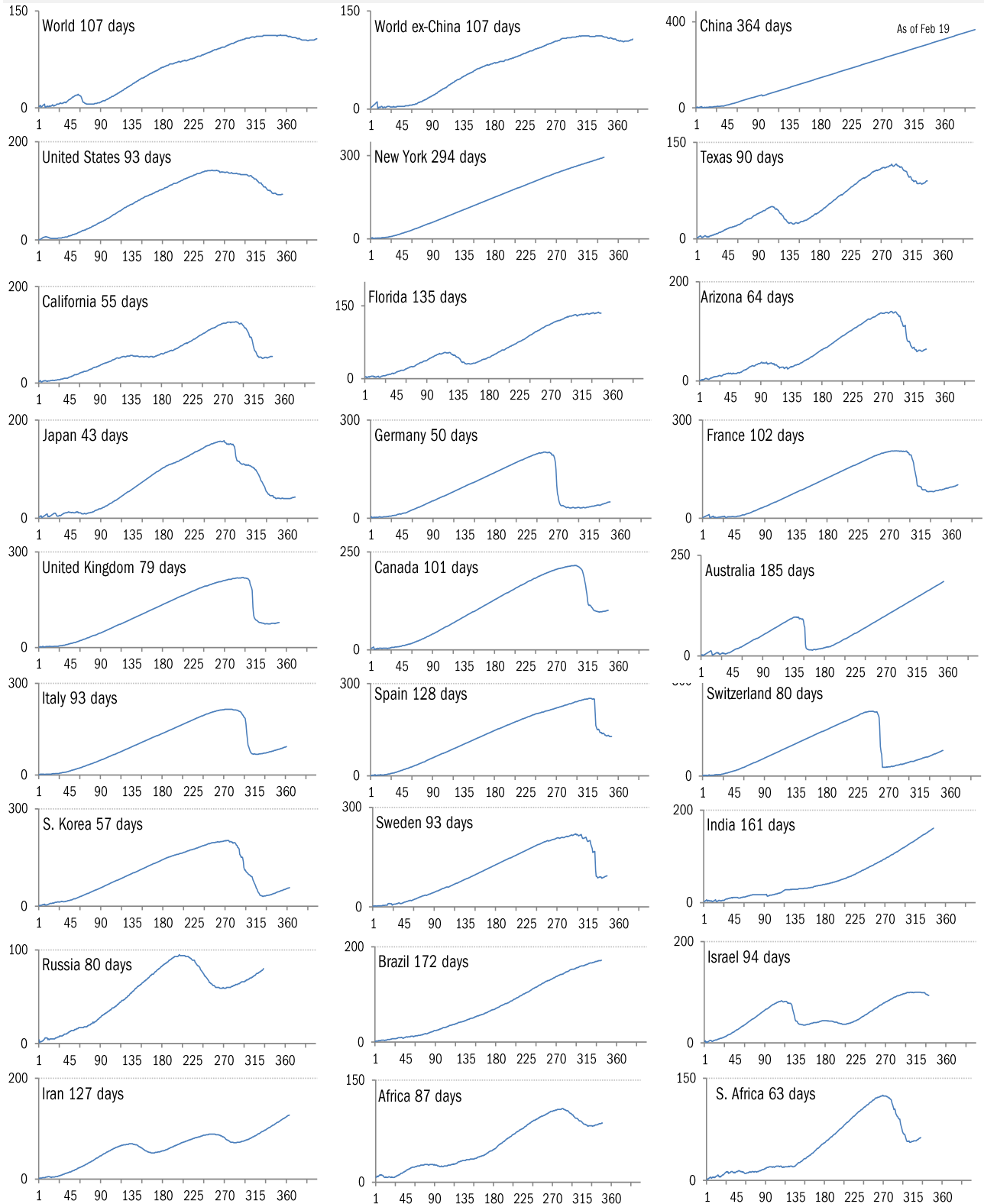


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-19

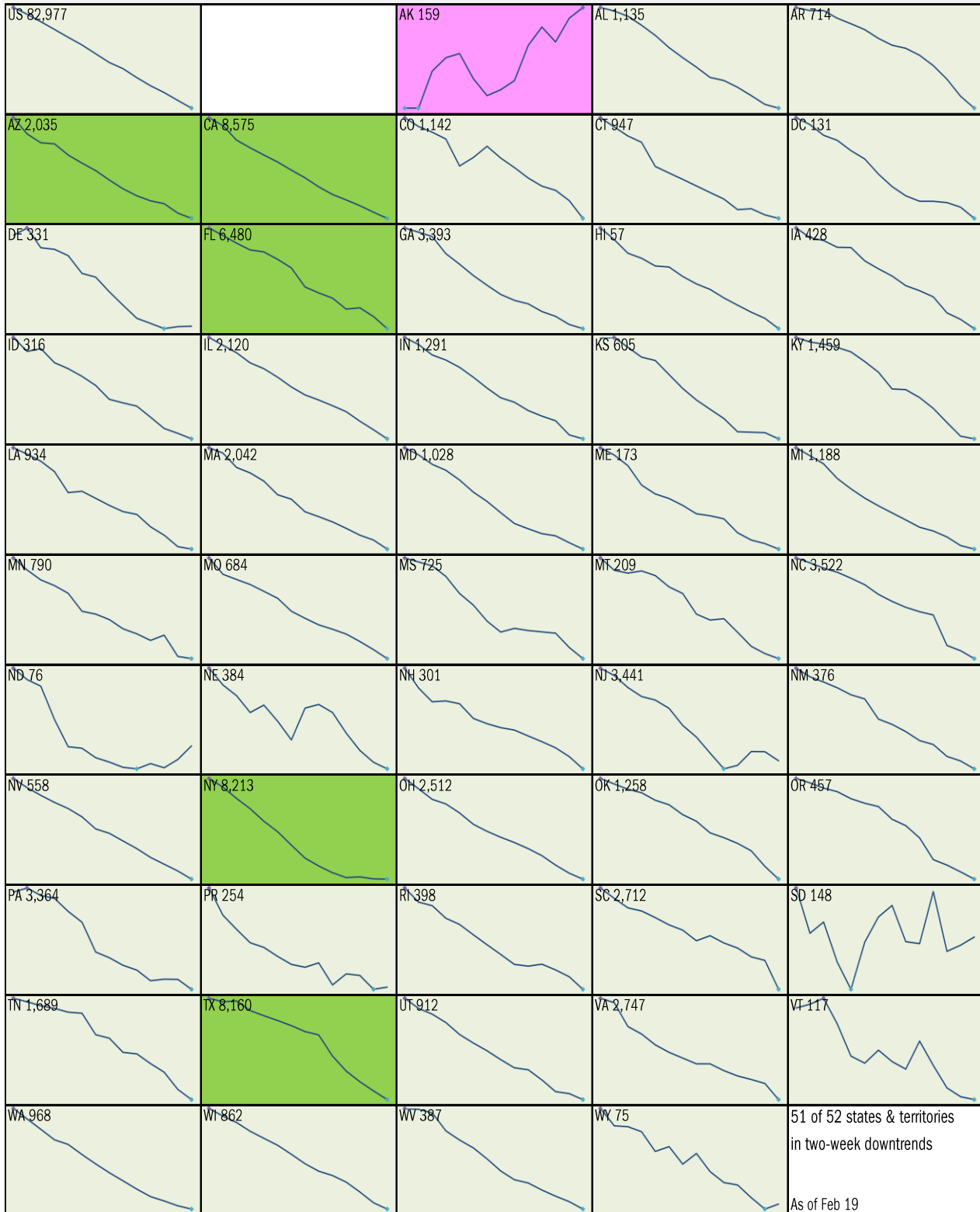
Vertical: days to double deaths Horizontal: days from first death

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

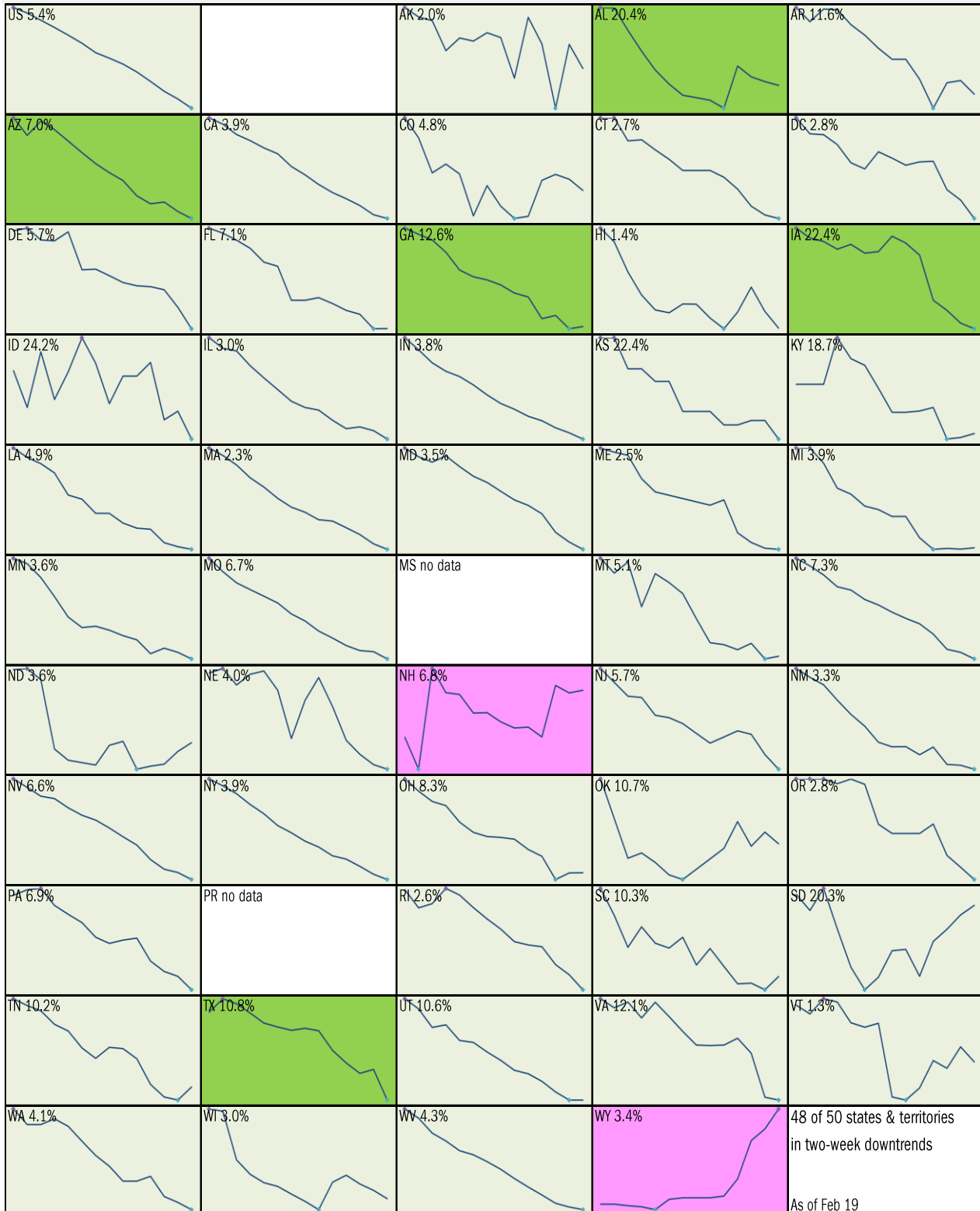


Source: [Covid Tracking Project](#), TrendMacro calculations

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

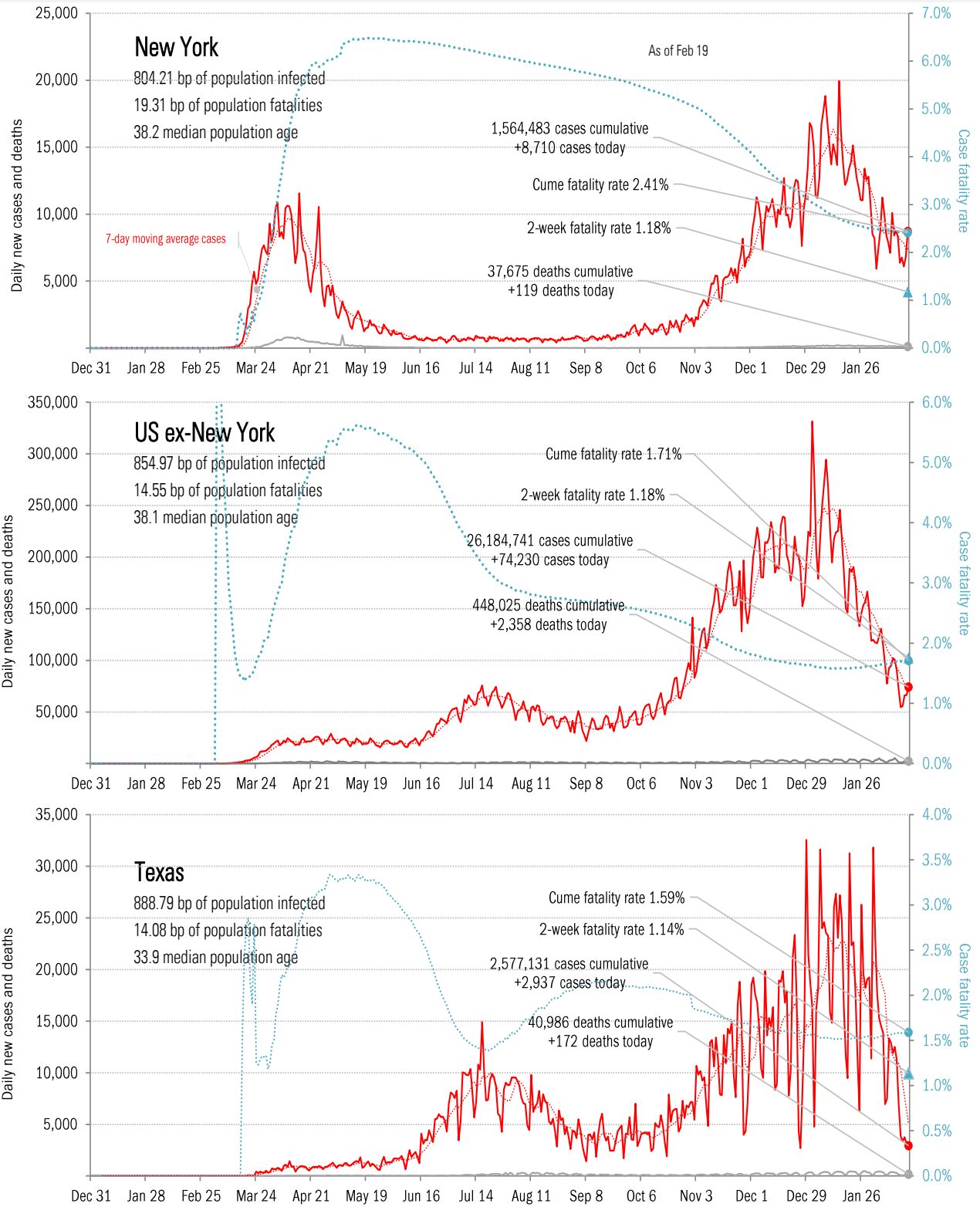
14-day moving average, last 14 days *Most recent value displayed* ● High ● Low

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



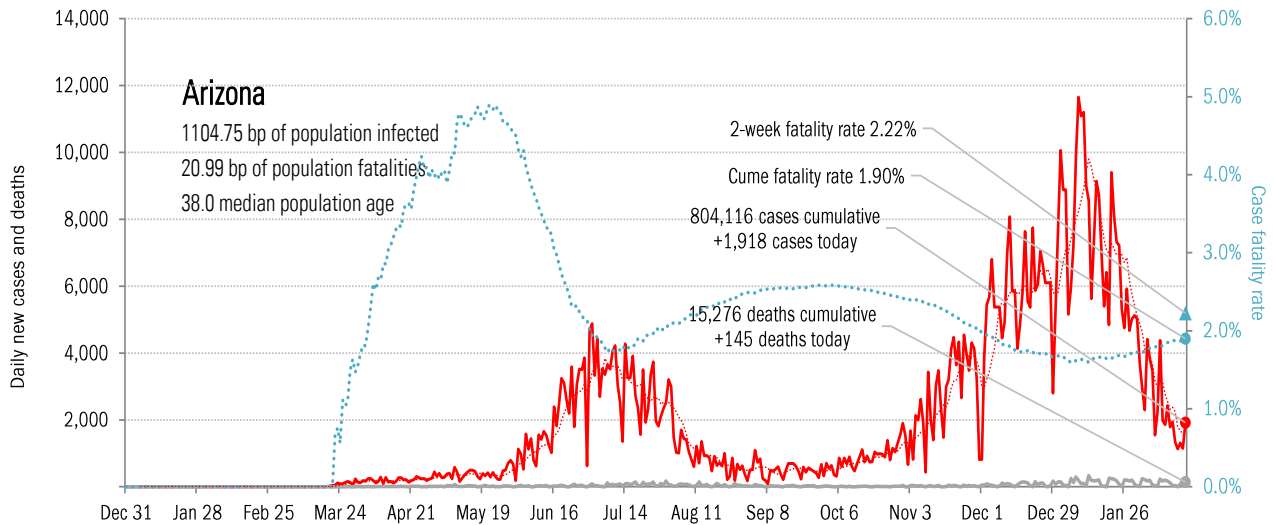
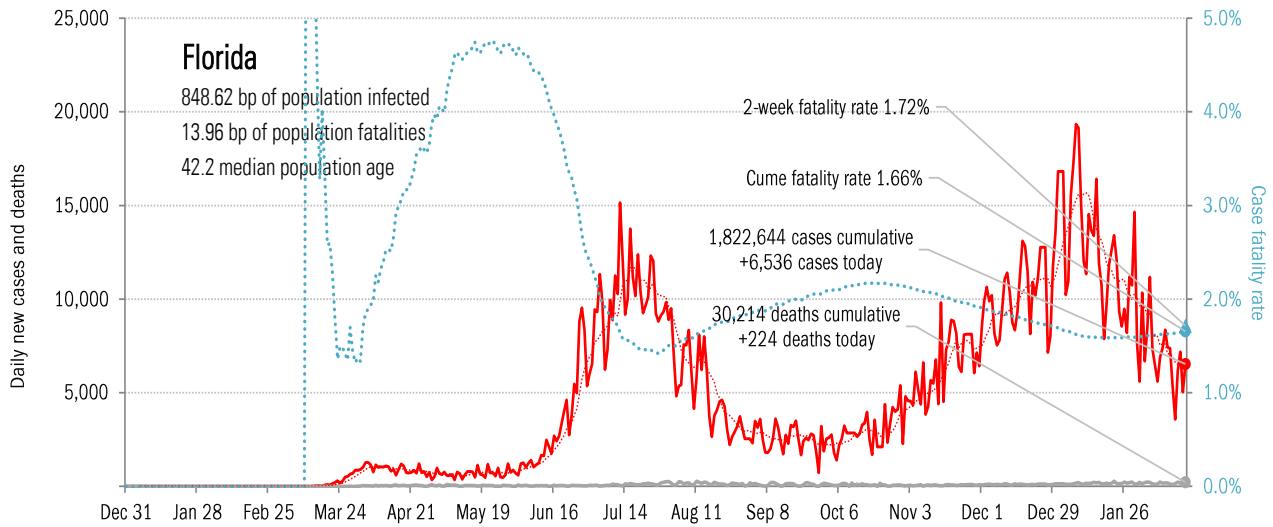
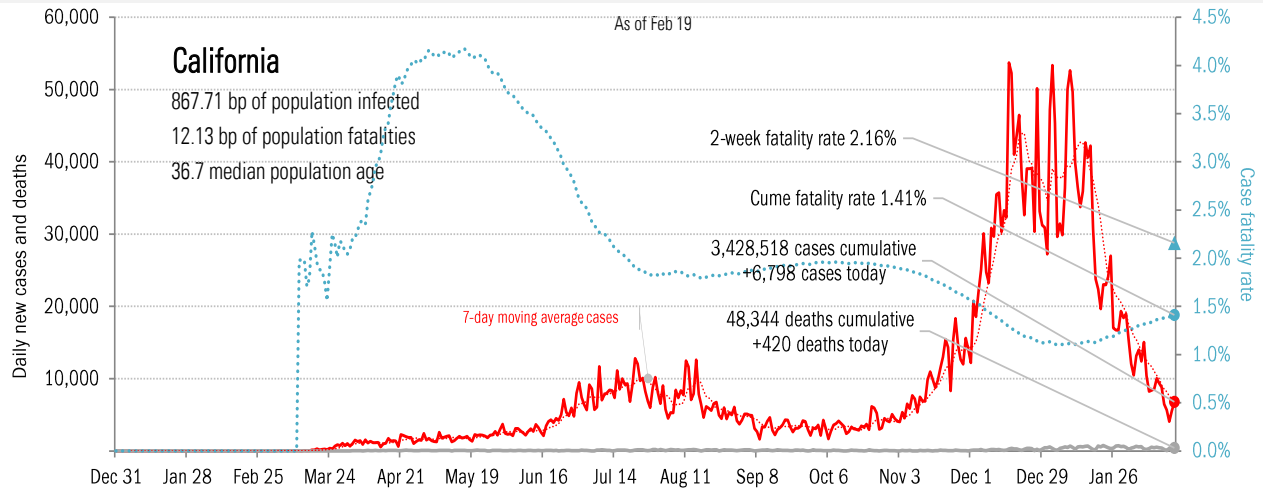
Source: [Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



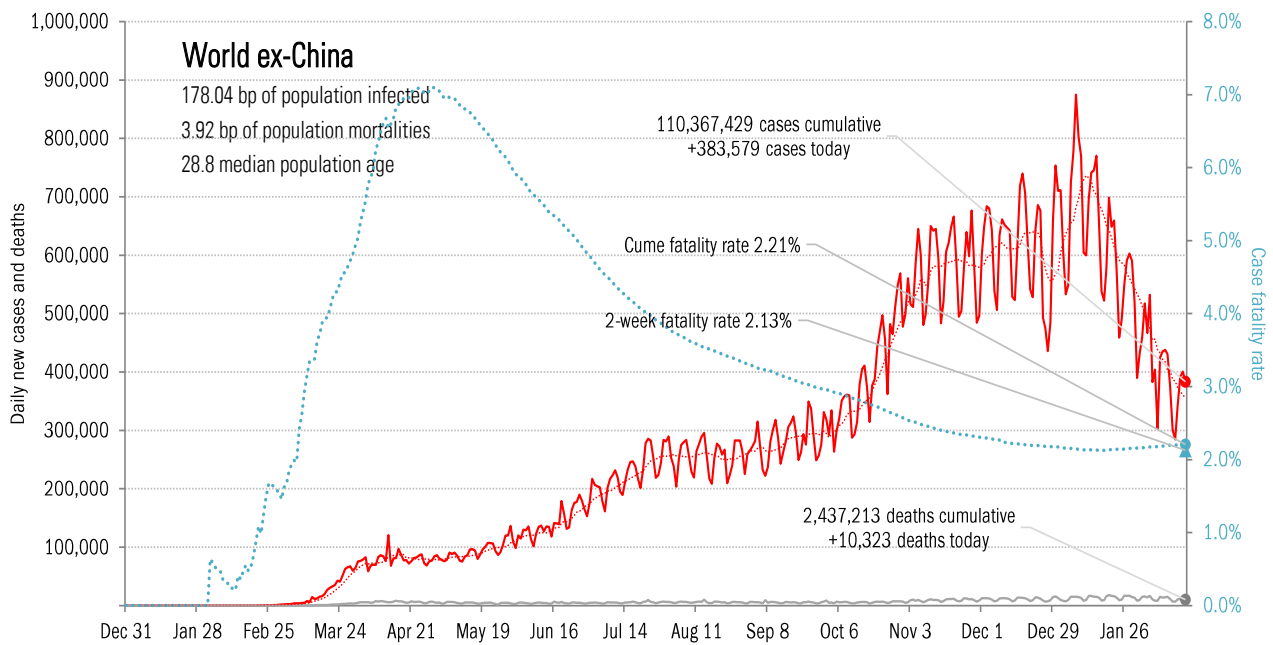
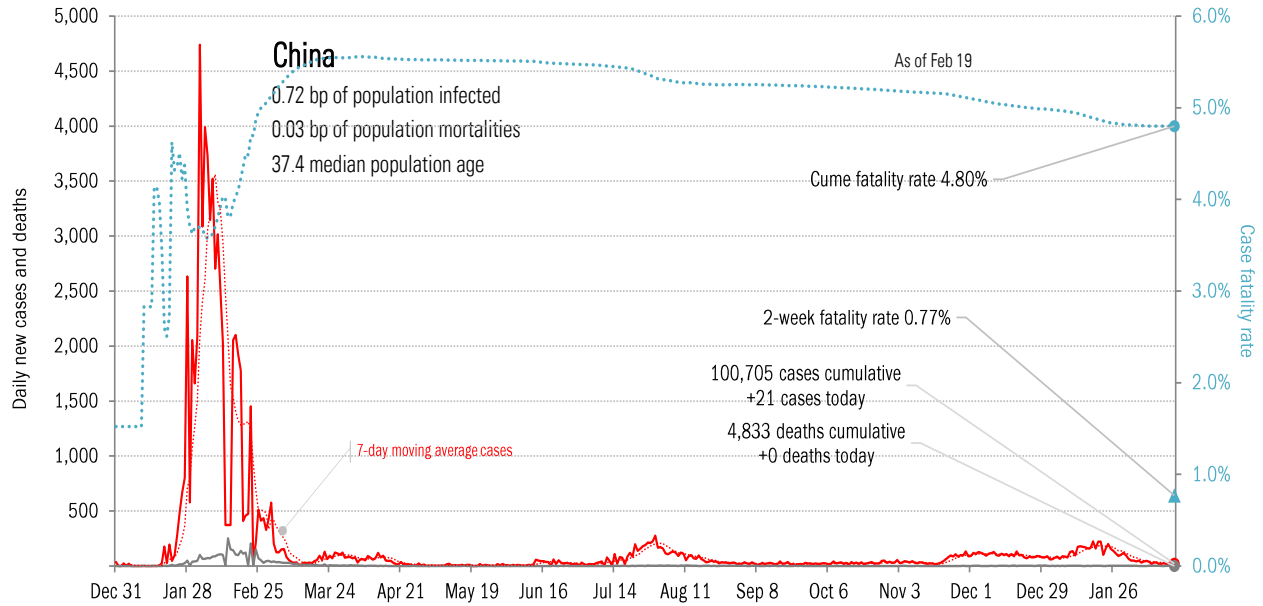
Source: [Covid Tracking Project](#), TrendMacro calculations

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



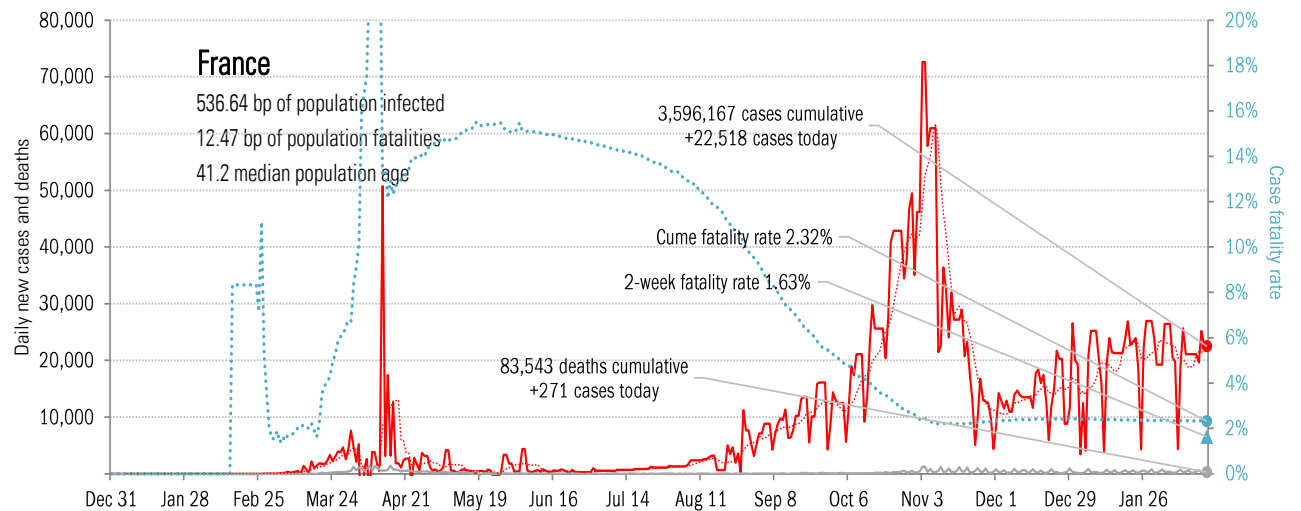
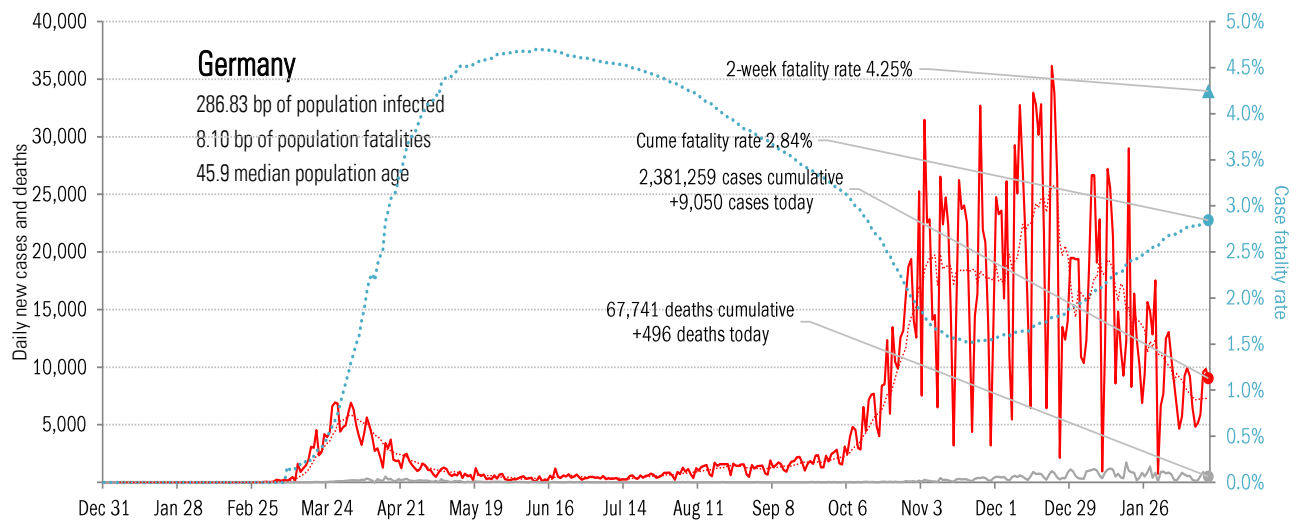
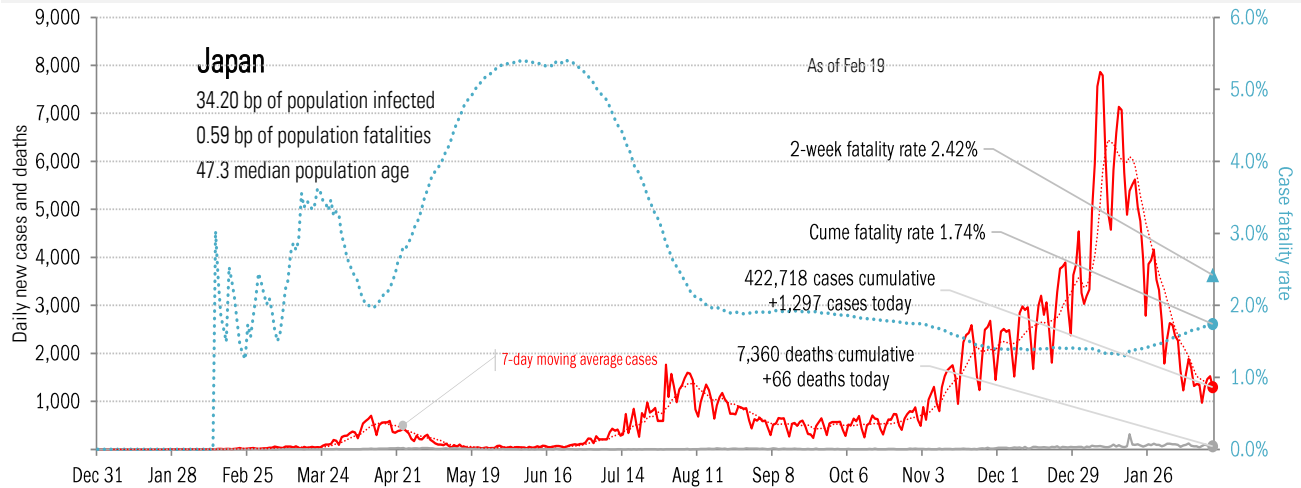
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



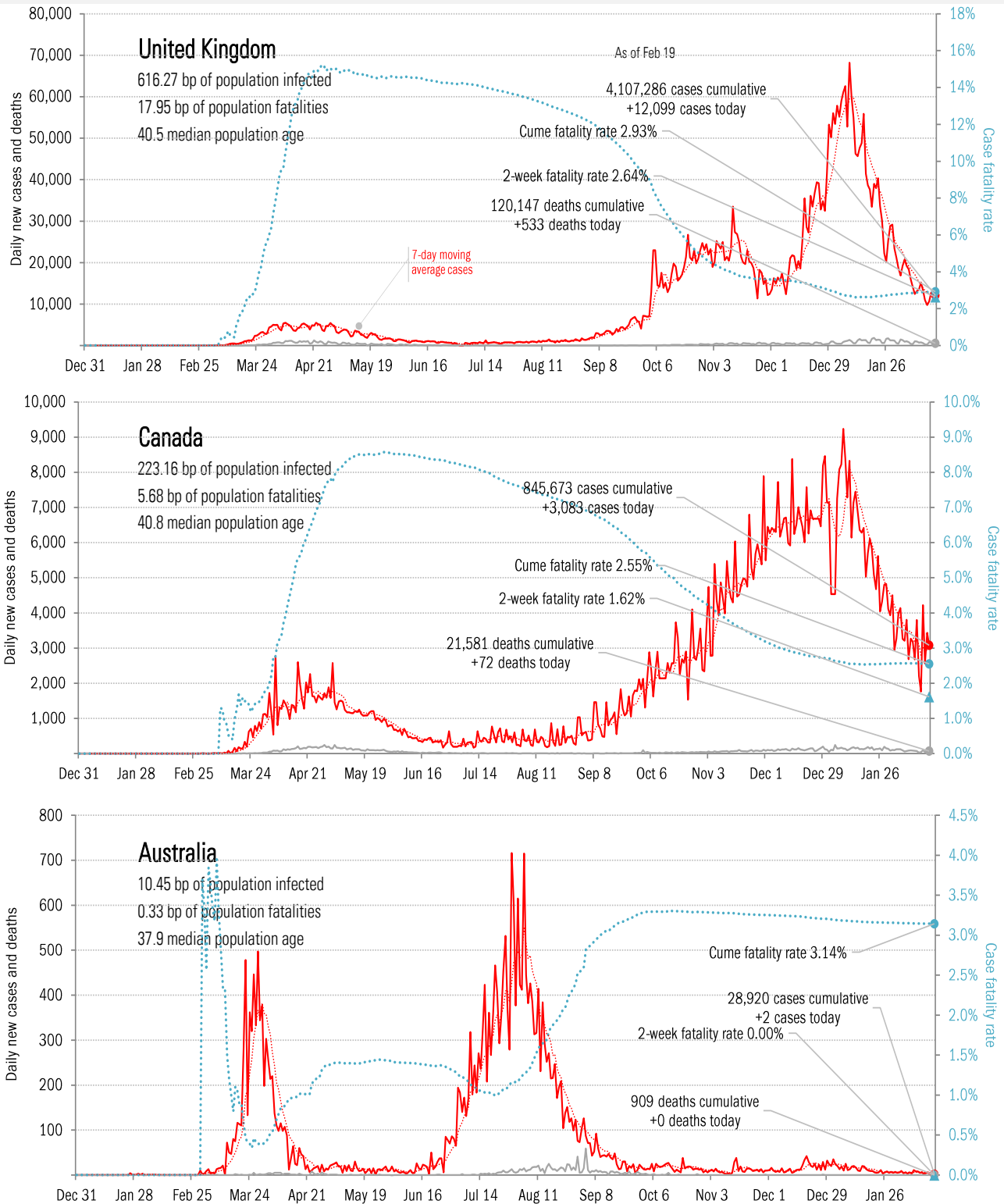
Source: [Johns Hopkins, Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



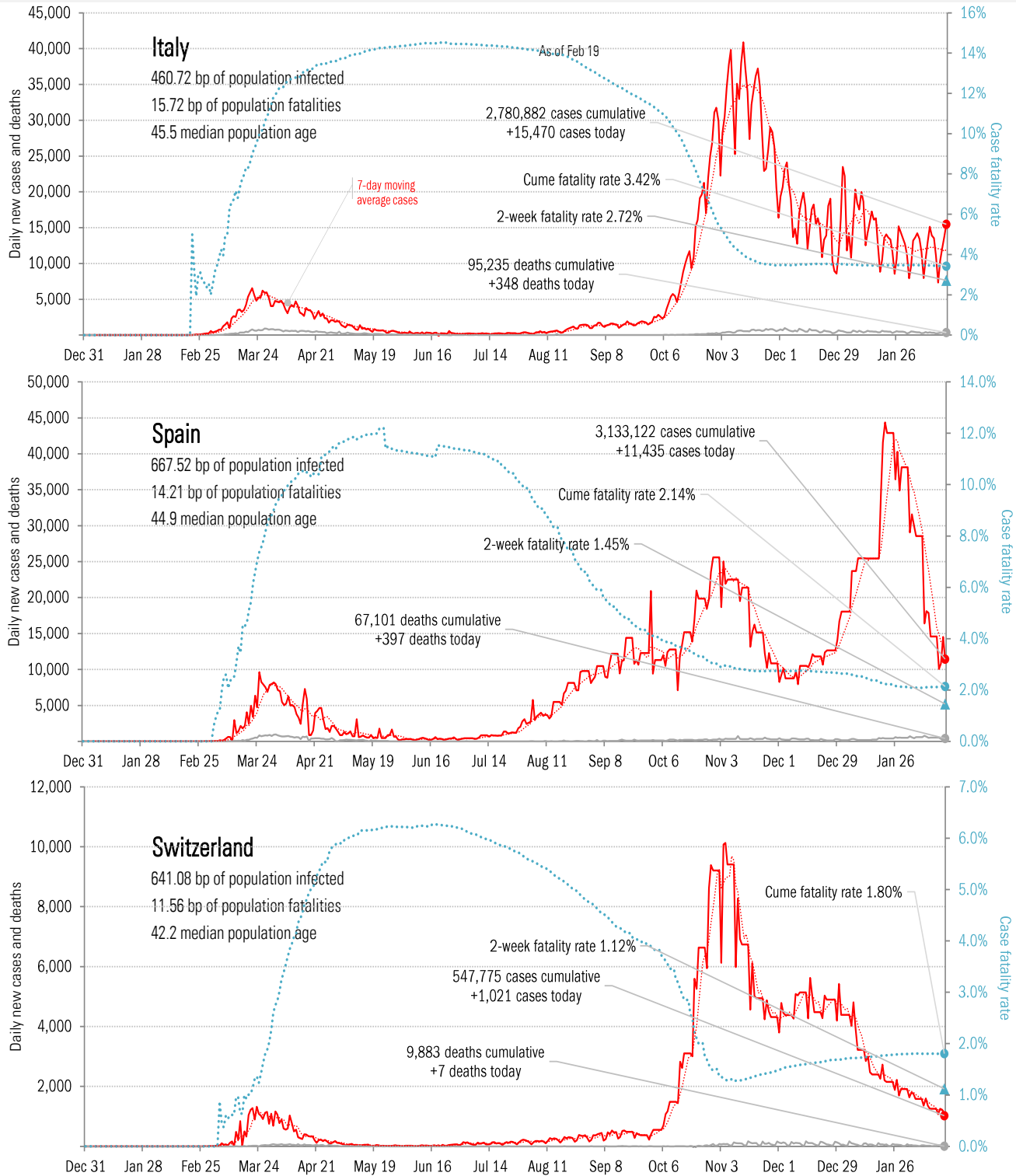
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



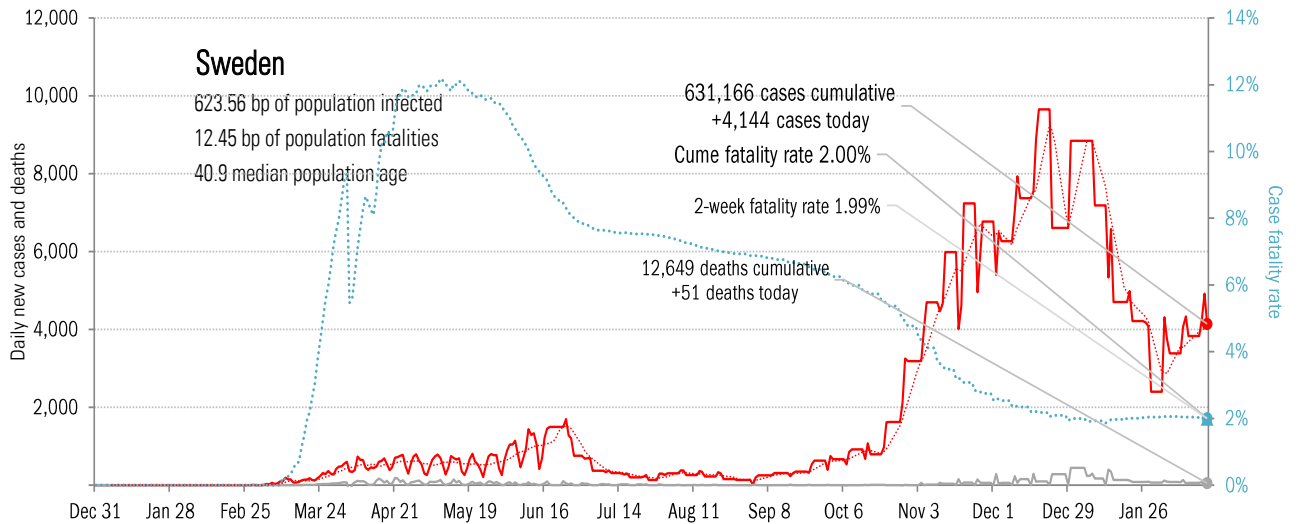
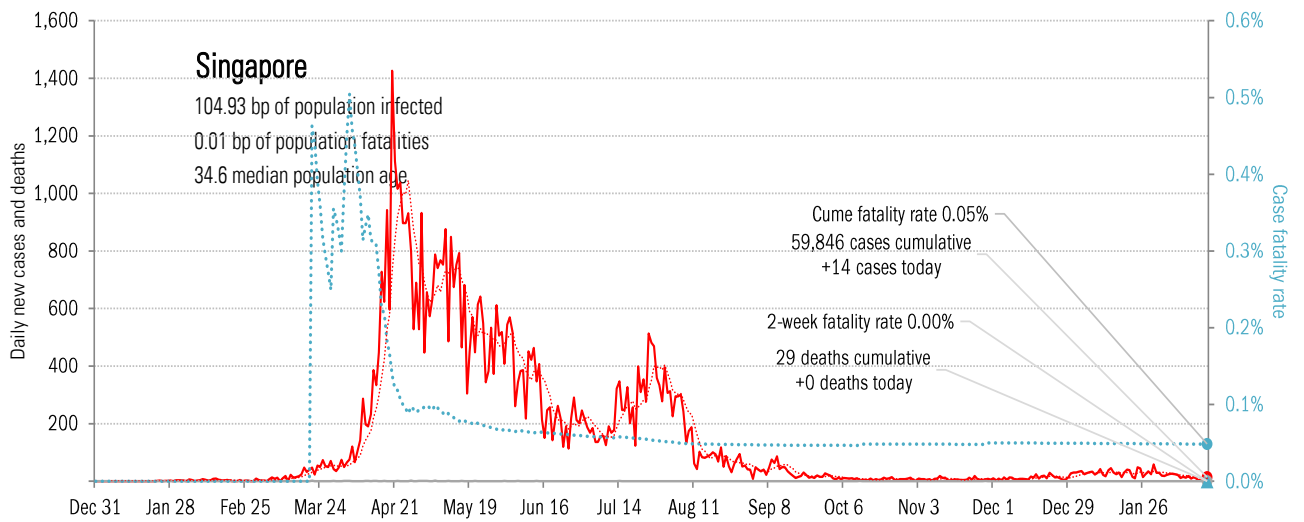
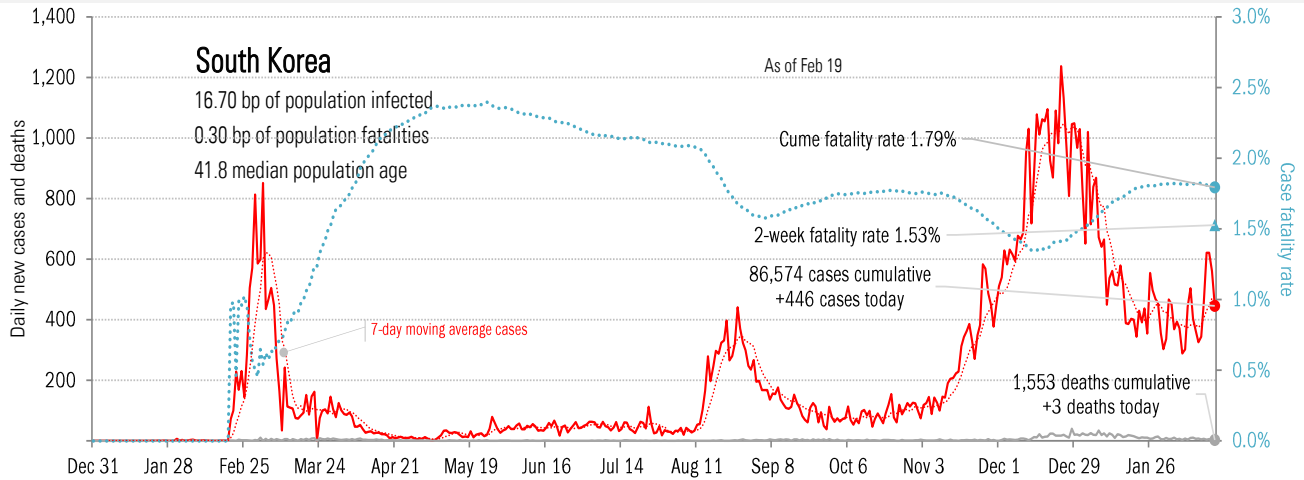
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



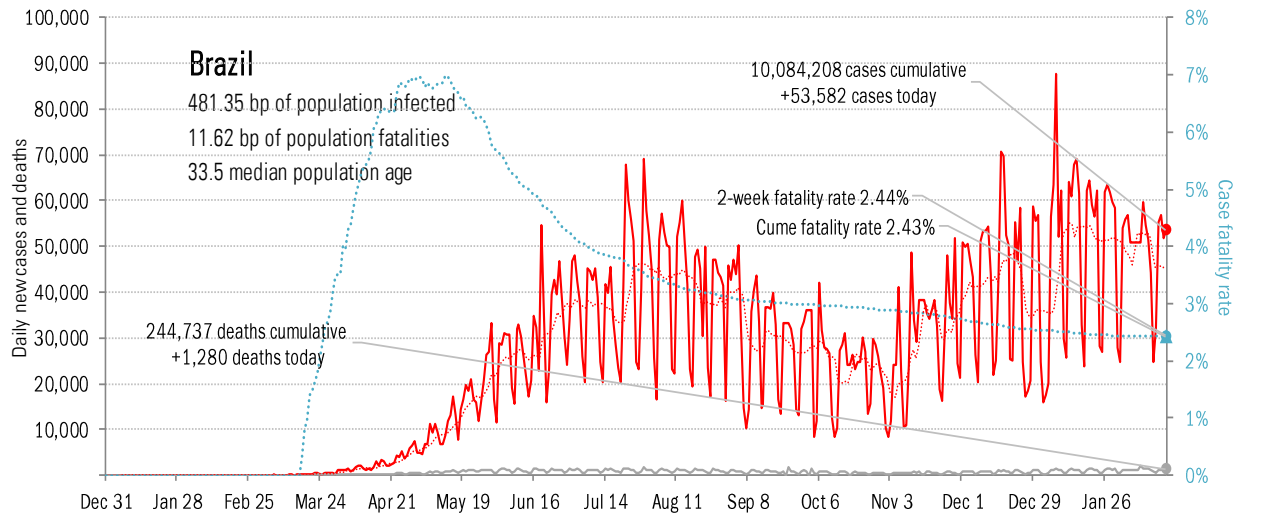
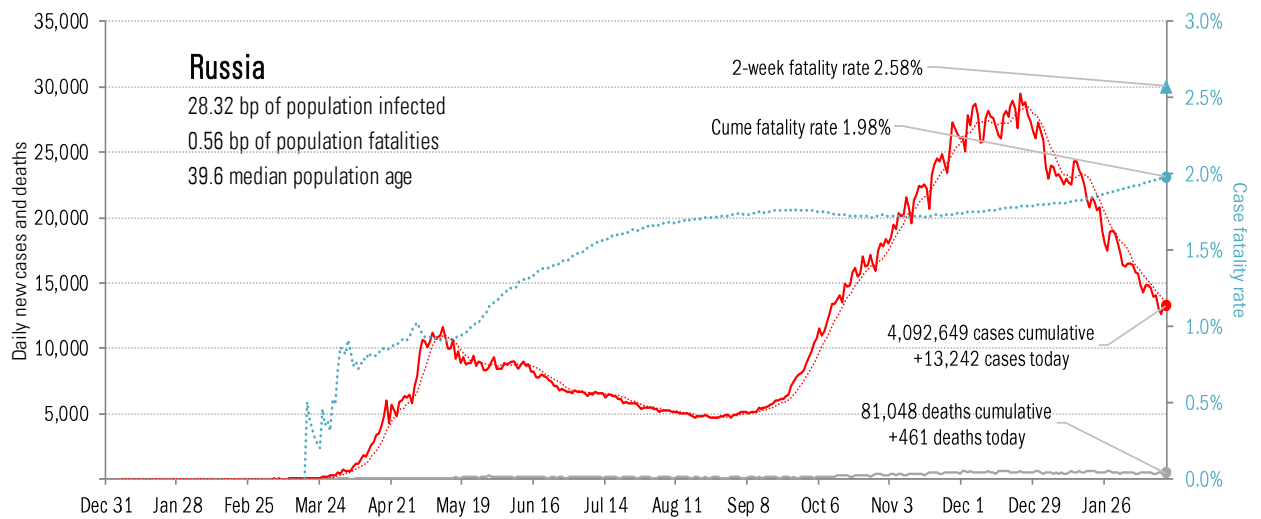
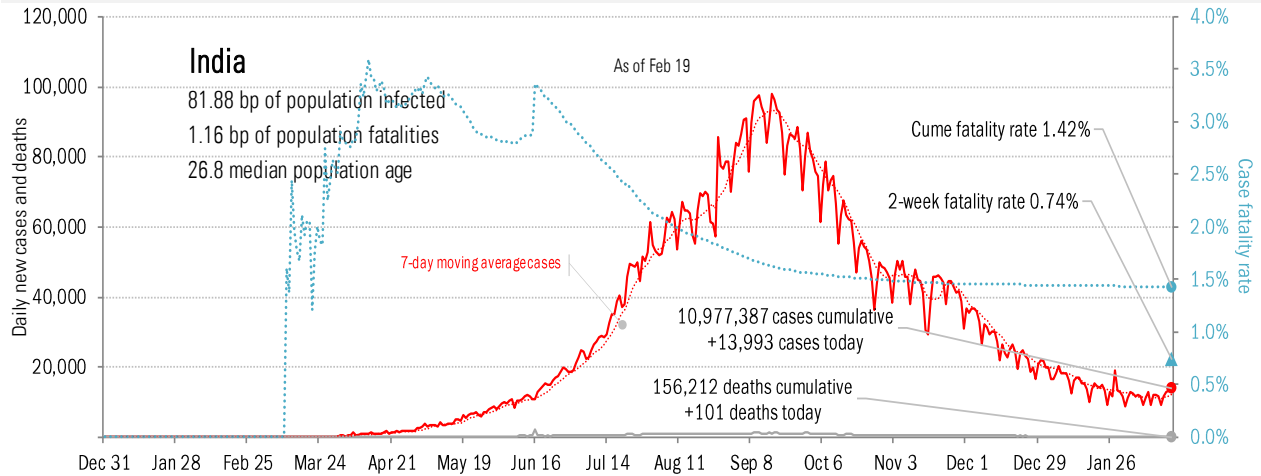
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



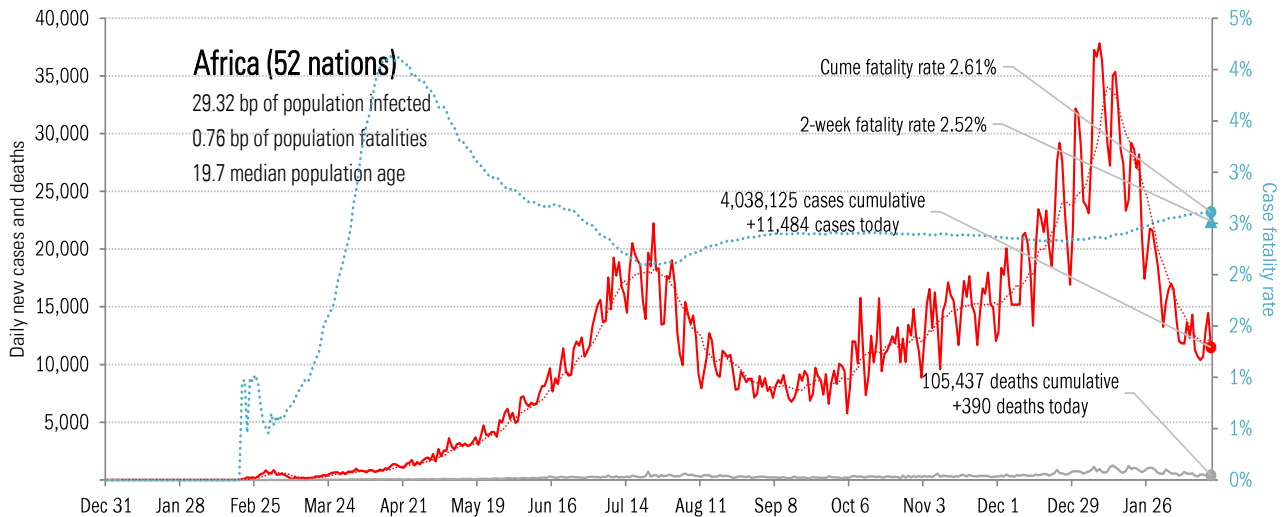
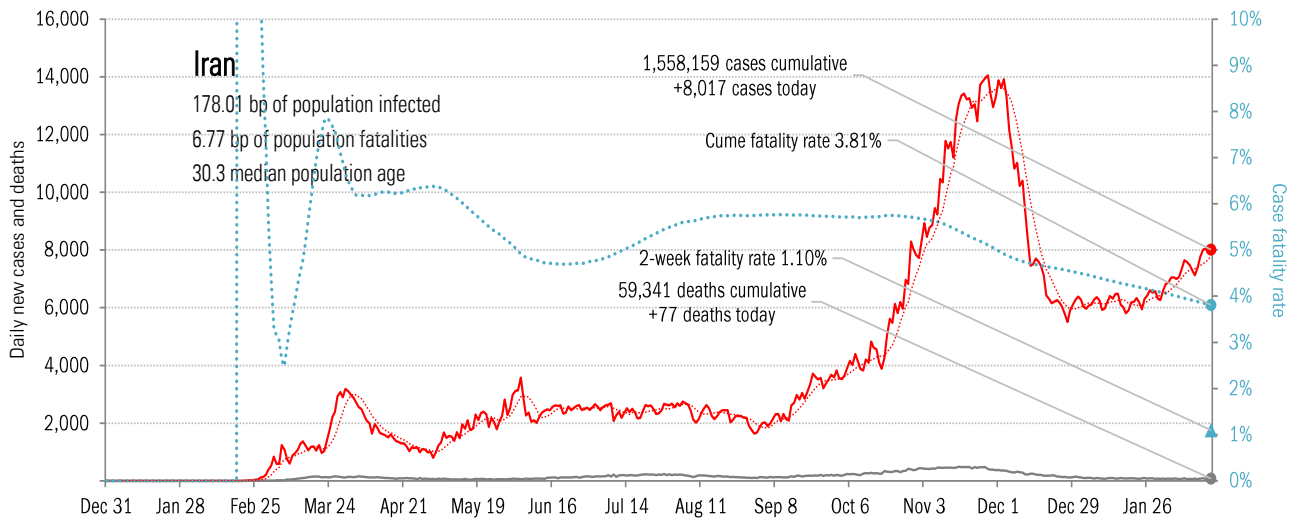
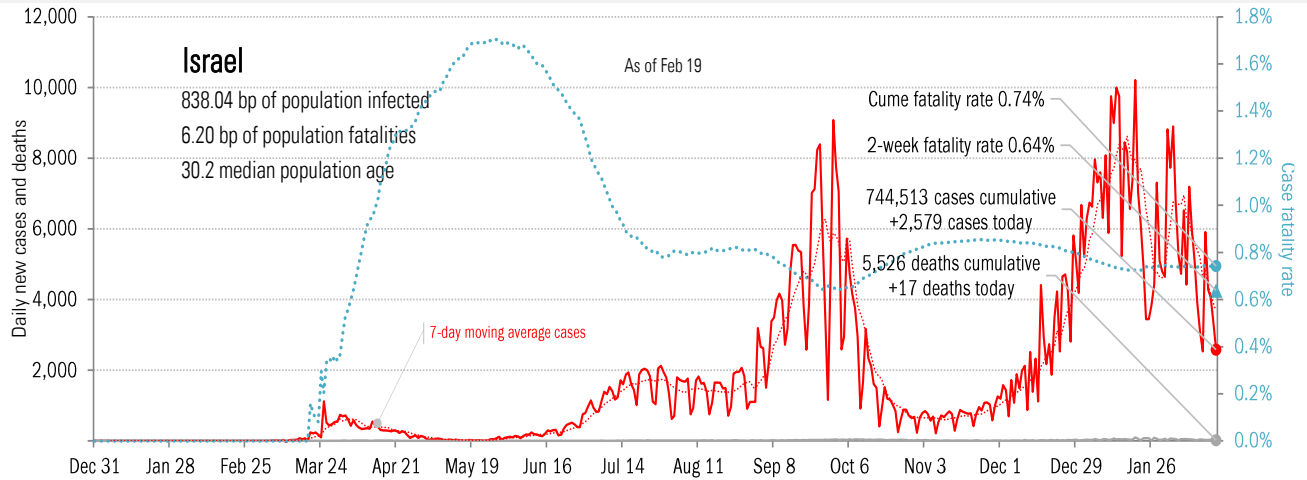
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



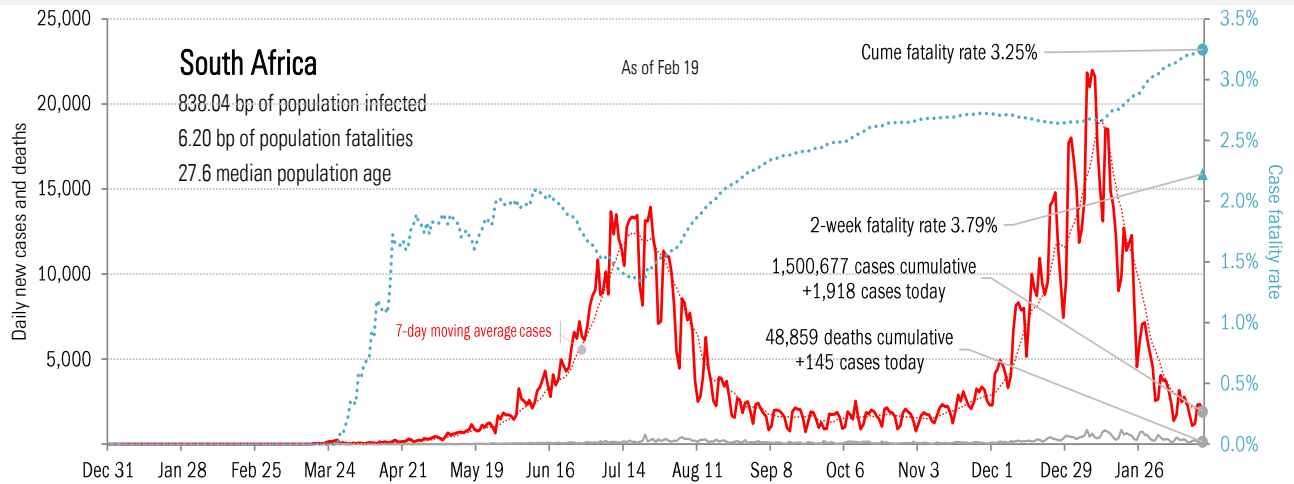
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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