

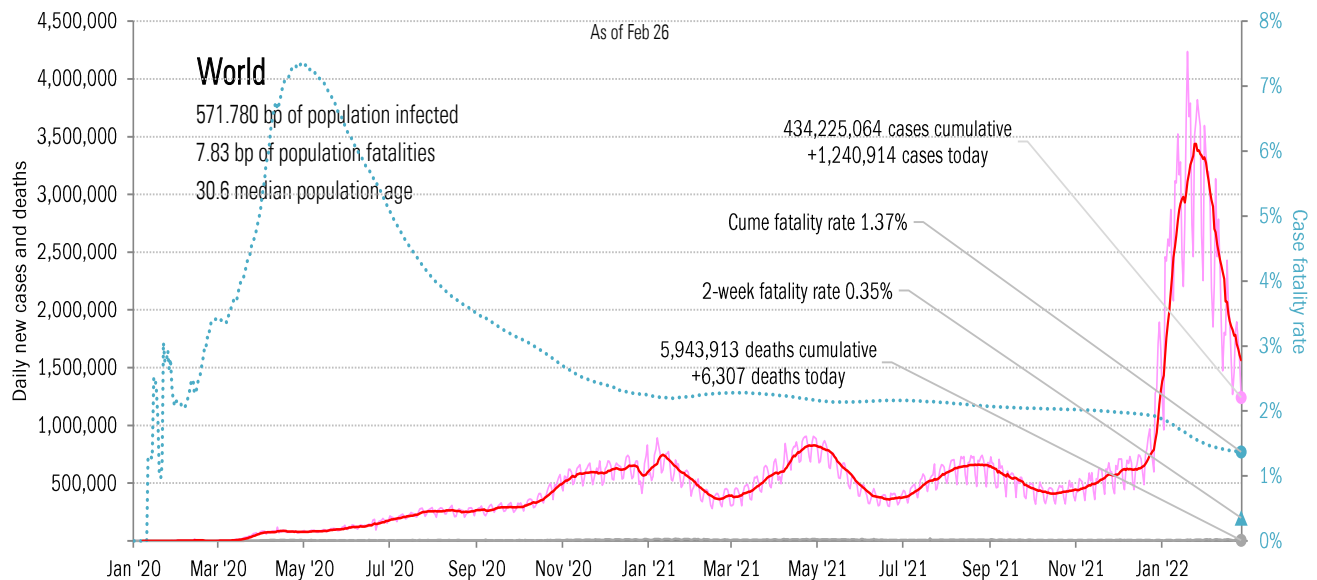
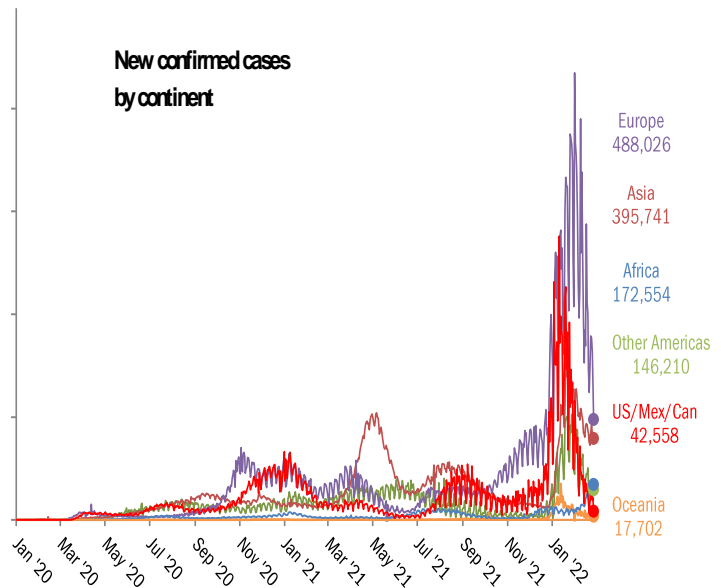
Data Insights: Covid-2019 Monitor

Sunday, February 27, 2022

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
Korea, South	163,558	Russia	781
Russia	121,647	United States	689
Germany	106,407	Brazil	688
Vietnam	98,876	Mexico	331
Japan	72,091	Indonesia	258
Brazil	69,881	Japan	256
Turkey	61,764	India	243
France	53,623	Iran	224
Indonesia	46,643	Poland	221
Italy	39,360	Turkey	221
833,850		3,912	
World	1,240,914	World	6,307
Top ten	67%	Top ten	62%



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

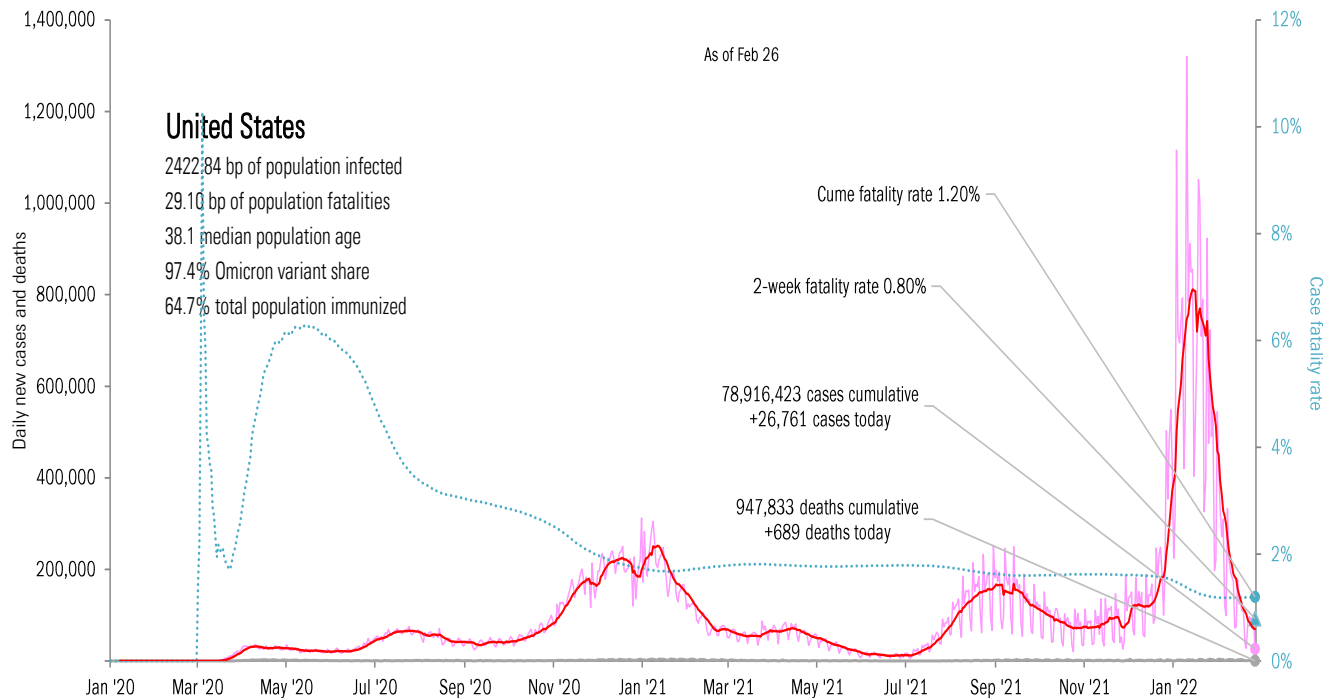
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
TX	4,660		TX	141		GA	224		CA	8,961,636		CA	85,043		TX	479,763		RI	85%	TX	89%
FL	3,646		FL	127		MD	11		TX	6,612,192		TX	84,775		CA	413,977		GA	84%	AL	89%
PA	2,369		TN	69		DE	8		FL	5,828,913		FL	69,408		FL	407,938		DC	84%	KY	85%
CA	2,146		CA	63		WV	7		NY	4,921,916		NY	67,300		NY	240,732		MA	84%	GA	85%
TN	1,983		PA	55		MT	6		IL	3,026,737		PA	43,203		GA	201,471		WA	83%	MS	84%
NY	1,843		AR	40		SD	5		PA	2,755,730		CH	36,580		CH	187,684		WV	83%	AK	83%
AZ	1,638		AL	39		CT	4		CH	2,652,634		GA	35,316		PA	172,801		MD	83%	CK	83%
CH	1,330		NJ	31		ID	3		NC	2,583,404		IL	35,087		IL	153,998		MO	83%	WA	82%
AL	1,169		NY	25		AK	2		GA	2,462,663		MI	34,477		MI	138,231		MN	83%	NV	82%
NJ	1,116		ME	22		HI	2		MI	2,357,955		NJ	32,888		KY	138,044		NV	81%	NC	82%
21,900			612			272			42,163,780			524,077			2,534,639						
All states	26,761		689		-804		All states	78,916,423		947,833		4,597,182		All states	70%		67%				
Top ten	82%		89%		-34%		Top ten	53%		55%		55%		Median	77%		76%				

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-11,198	CH	-313	WY	-16	AR	+10 bp
MI	-7,487	CA	-189	VT	-11	CO	+10 bp
NC	-4,887	SC	-147	ND	-8	GA	+10 bp
KY	-4,423	GA	-122	DC	-6	IA	+10 bp
WA	-3,276	MI	-107	KS	-4	ID	+10 bp

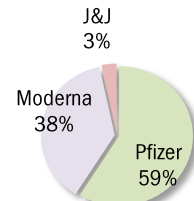


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative		Today	Immunity	Full	Partial
Doses	567,451,601		+0.508 million	US	64.7%	76.3%
Boosters	95,245,224		+0.197 million	UK	71.8%	77.1%
	One dose	% Pop	Immune	% pop	New immune today	
Total population	261,016,743	78%	221,668,313	66%	+0.140 million	France 77.5% 80.0%
Age 12 to 17	17,309,123	68%	14,727,079	58%	+0.015 million	Spain 83.4% 87.8%
Age 18 to 64	175,961,819	87%	149,180,302	73%	+0.079 million	Germany 74.7% 75.6%
Age 65 and over	58,174,836	100%	50,341,208	92%	+0.009 million	Italy 78.6% 83.9%

Israel	65.9%	72.1%
Canada	81.1%	85.5%
Japan	79.5%	80.7%
Africa	12.8%	17.9%
India	56.6%	69.3%
Brazil	72.3%	83.0%
China	85.5%	87.9%



AK	68.5%
	60.9%

State
At least partial immunity as % population
Full immunity as % population

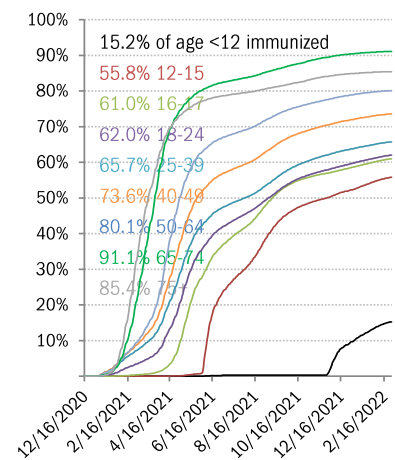
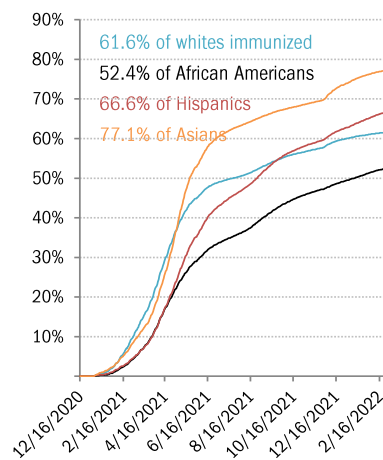
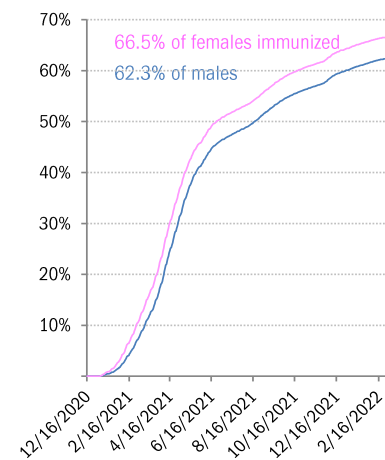
Best
Middle
Worst

Immunity = two doses

As of Feb 26

					WI 71.0% 64.6%					ME 89.1% 78.3%
WA 79.7% 71.4%	ID 60.3% 53.1%	MT 64.5% 55.9%	ND 64.5% 54.4%	MN 74.3% 68.2%	IL 75.9% 67.4%	MI 66.1% 59.2%		NY 88.9% 75.5%	VT 92.6% 80.1%	NH 95.0% 67.9%
OR 76.9% 68.6%	NV 74.0% 59.7%	WY 58.0% 50.6%	SD 74.9% 59.9%	IA 67.3% 61.1%	IN 60.6% 54.0%	OH 62.9% 57.6%	PA 83.3% 66.9%	NJ 88.9% 74.2%	MA 95.0% 77.6%	
CA 81.8% 70.4%	UT 71.2% 63.3%	CO 78.3% 69.2%	NE 69.4% 62.5%	MO 65.3% 55.1%	KY 65.3% 56.4%	WV 64.2% 56.8%	VA 84.4% 71.9%	MD 84.8% 74.0%	CT 93.9% 77.8%	RI 95.0% 80.6%
	AZ 71.4% 60.1%	NM 85.9% 69.6%	KS 73.4% 60.1%	AR 65.7% 53.5%	TN 61.3% 53.6%	NC 82.2% 59.3%	SC 66.5% 55.9%	DC 95.0% 71.5%	DE 81.7% 67.6%	
			OK 70.0% 56.0%	LA 60.1% 52.5%	MS 58.8% 50.9%	AL 61.9% 50.2%	GA 64.3% 53.6%			
			TX 71.0% 60.0%					FL 78.0% 65.9%		PR 95.0% 81.4%

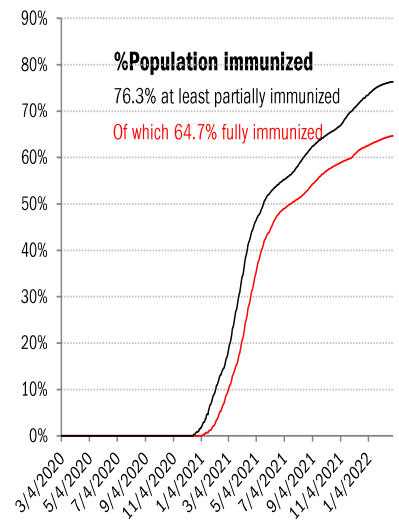
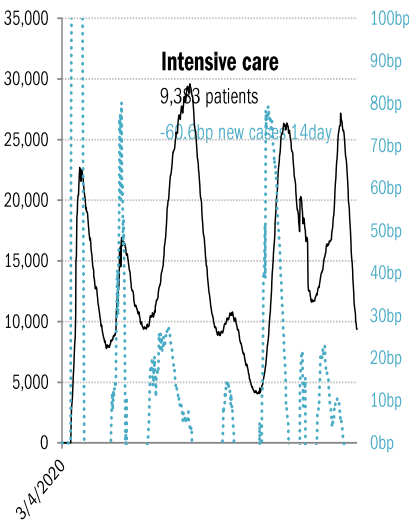
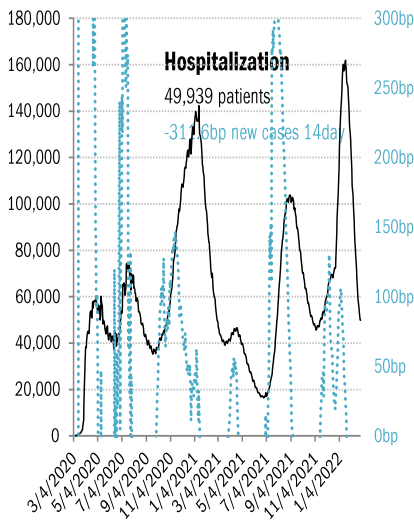
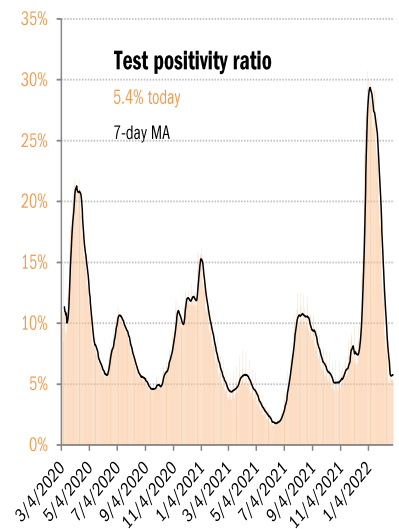
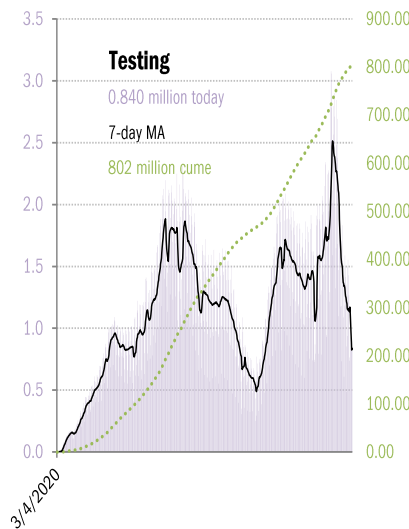
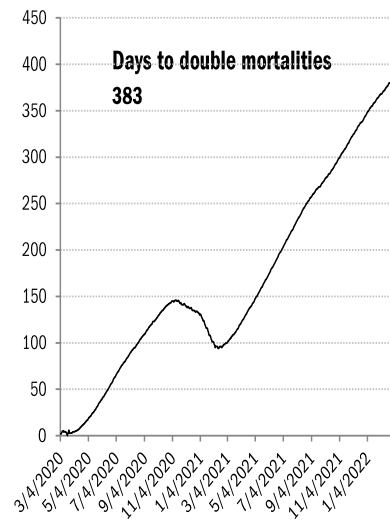
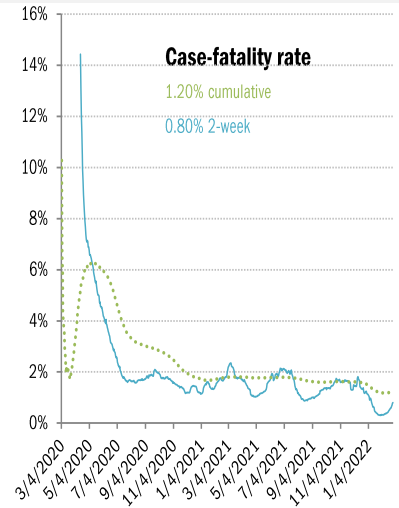
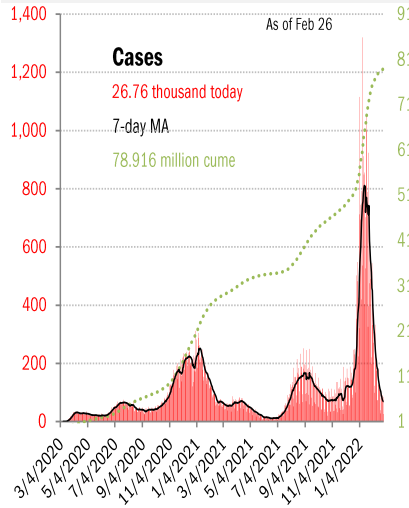
The demographics of US vaccination



Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

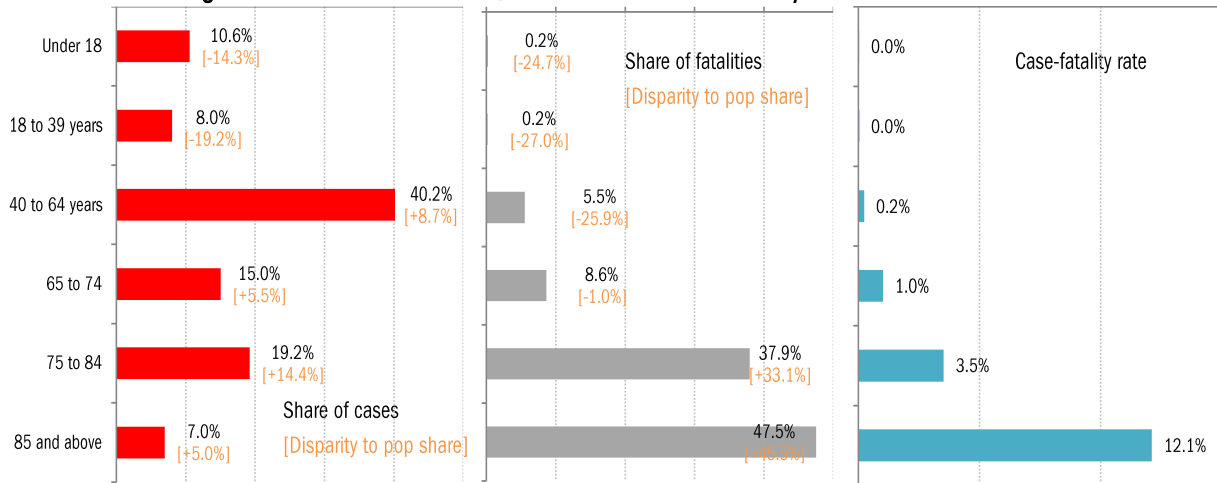
US deep-dive

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

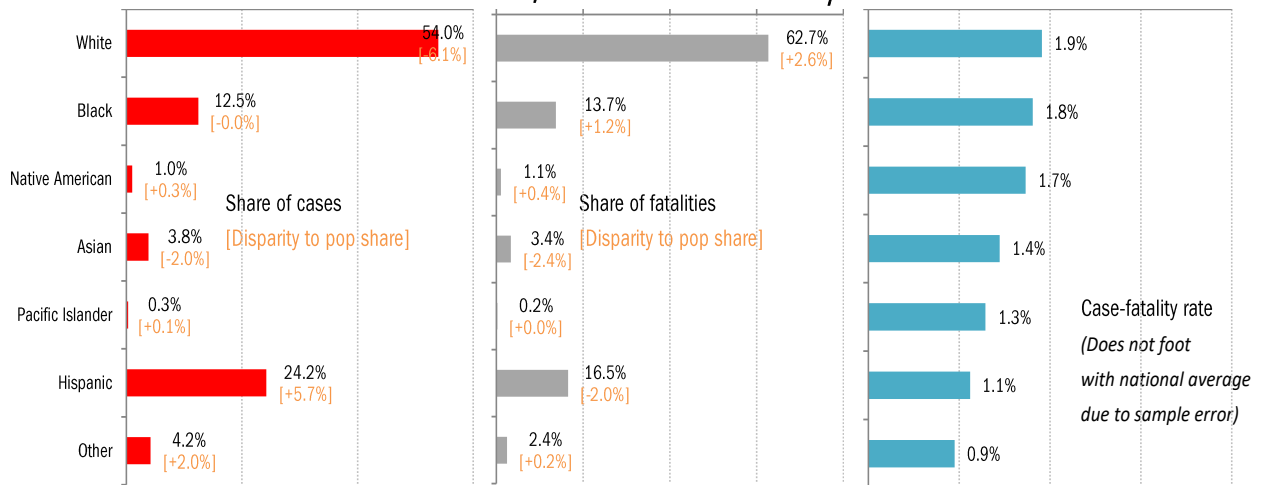


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

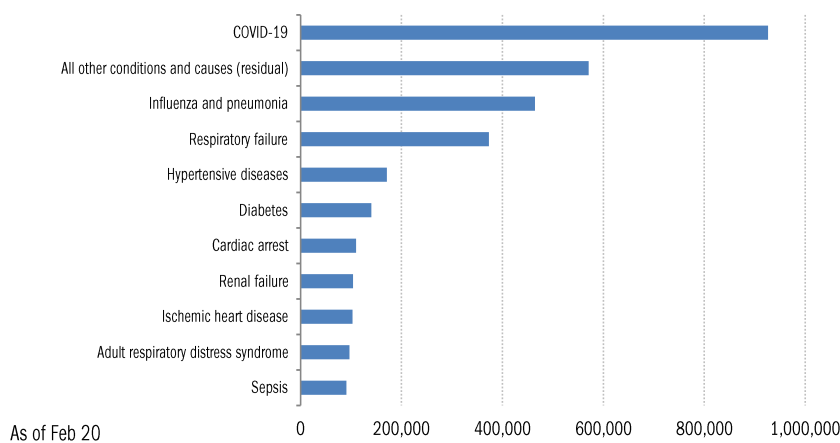


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



The CDC website now omits the following text, which had been included every day for over a year:

For over 5% of these deaths, COVID-19 was the only cause mentioned on the death certificate. For deaths with conditions or causes in addition to COVID-19, on average, there were 4.0 additional conditions or causes per death.

Recommended reading

[A Kennedy's Crusade Against Covid Vaccines Anguishes Family and Friends](#)

Adam Nagourney
New York Times
February 26, 2022

[The Huanan market was the epicenter of SARS-CoV-2 emergence](#)

Michael Worobey
Self-published
February 26, 2022

[SARS-CoV-2 emergence very likely resulted from at least two zoonotic events](#)

Jonathan E Pekar et al.
Self-published
February 26, 2022

[New Research Points to Wuhan Market as Pandemic Origin](#)

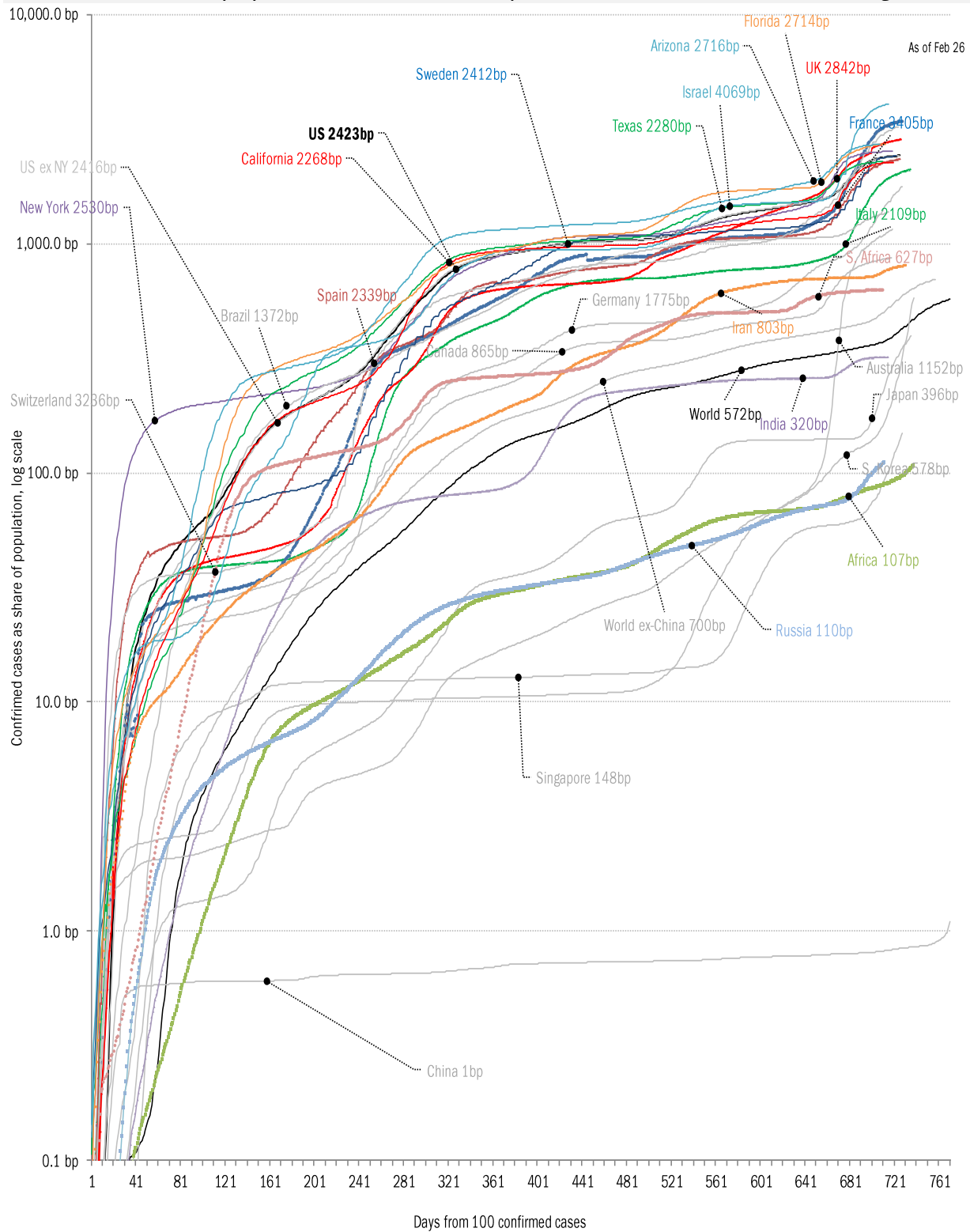
Carl Zimmer and Benjamin Mueller
New York Times
February 26, 2022

Meme of the day



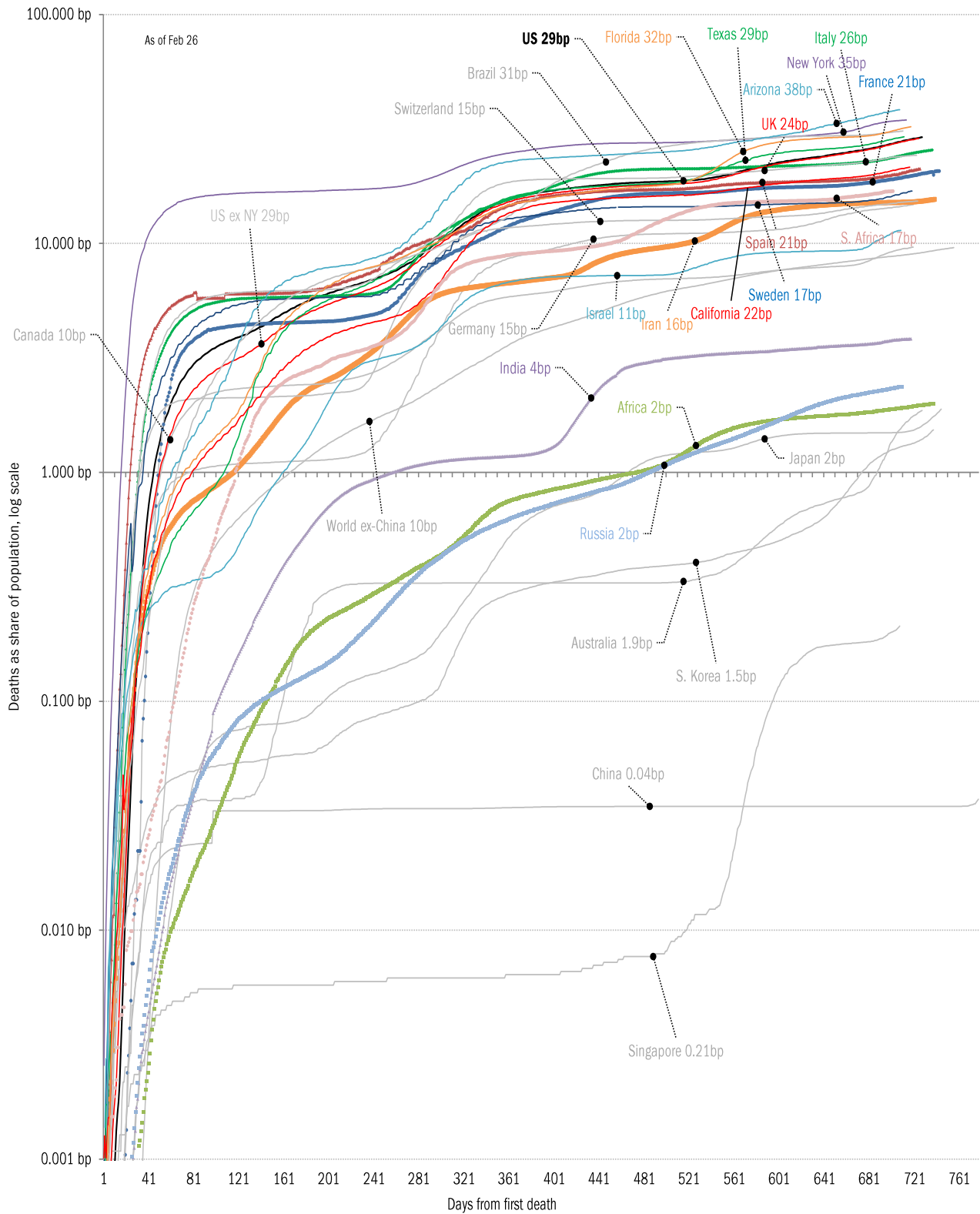
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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](#), TrendMacro calculations

The coronavirus mortality accelerometer ... tracking the world's fatality curves
Share of deceased population from day of first fatality, log scale

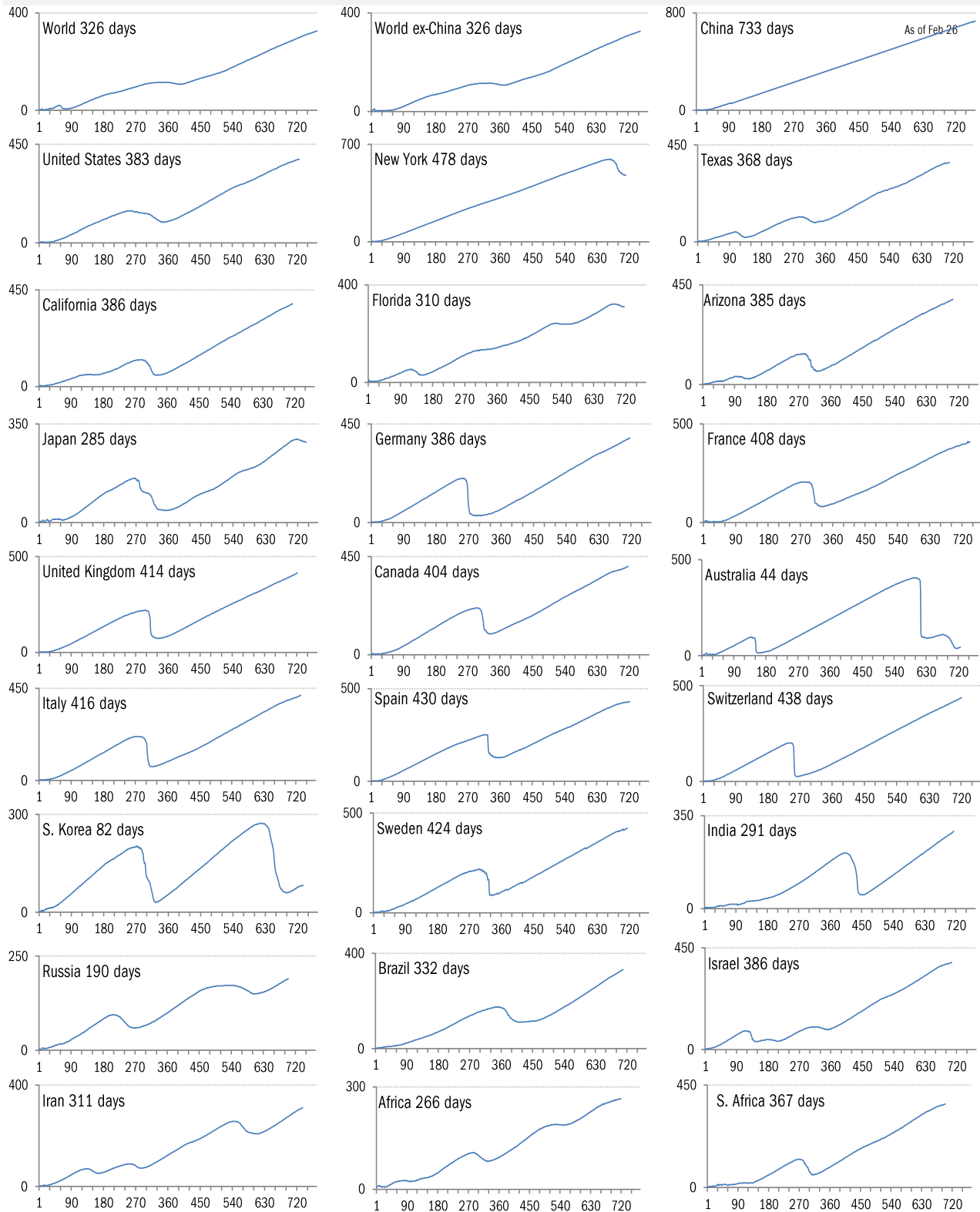


Source: [Johns Hopkins](#), TrendMacro calculations

"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

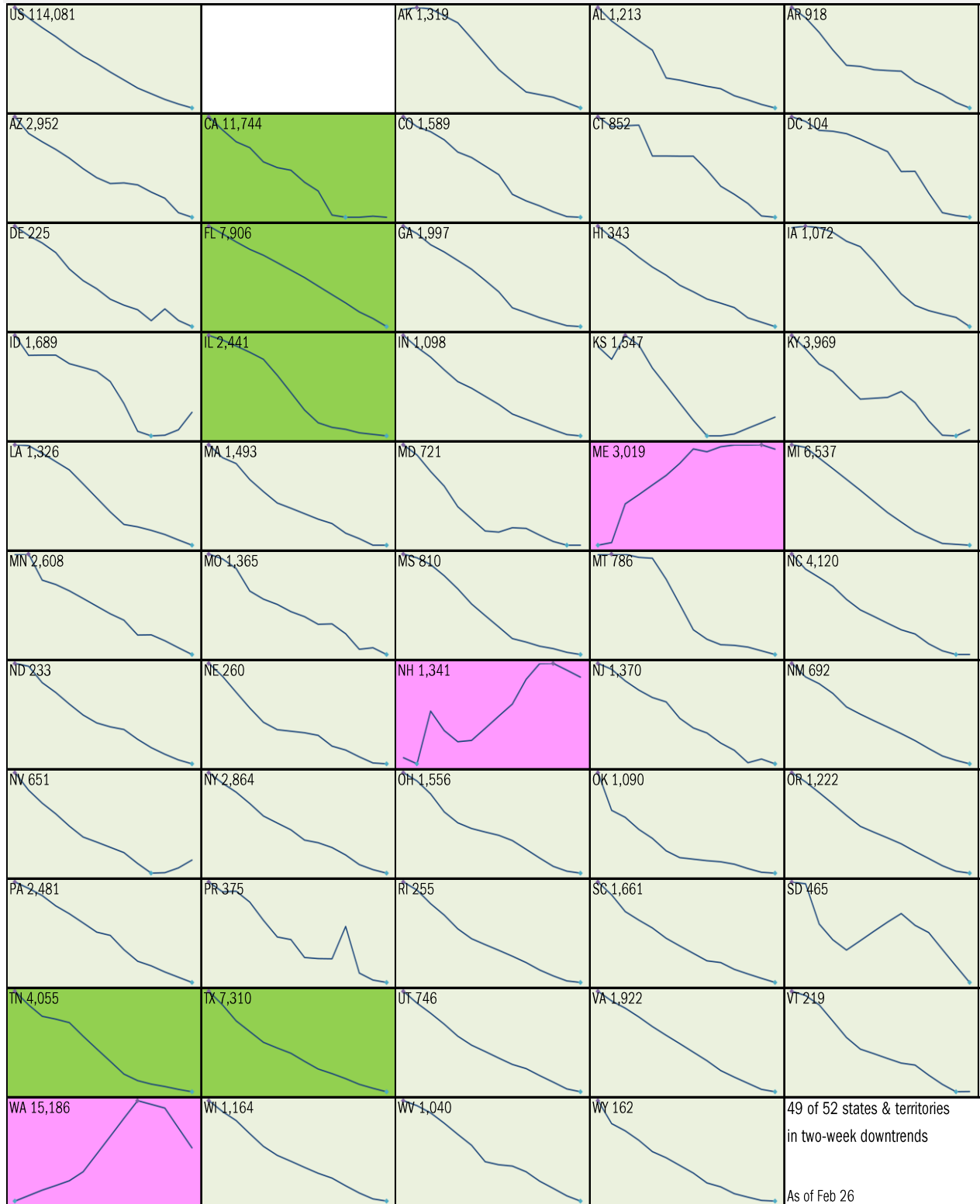


Source: [Johns Hopkins](#), TrendMacro calculations

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

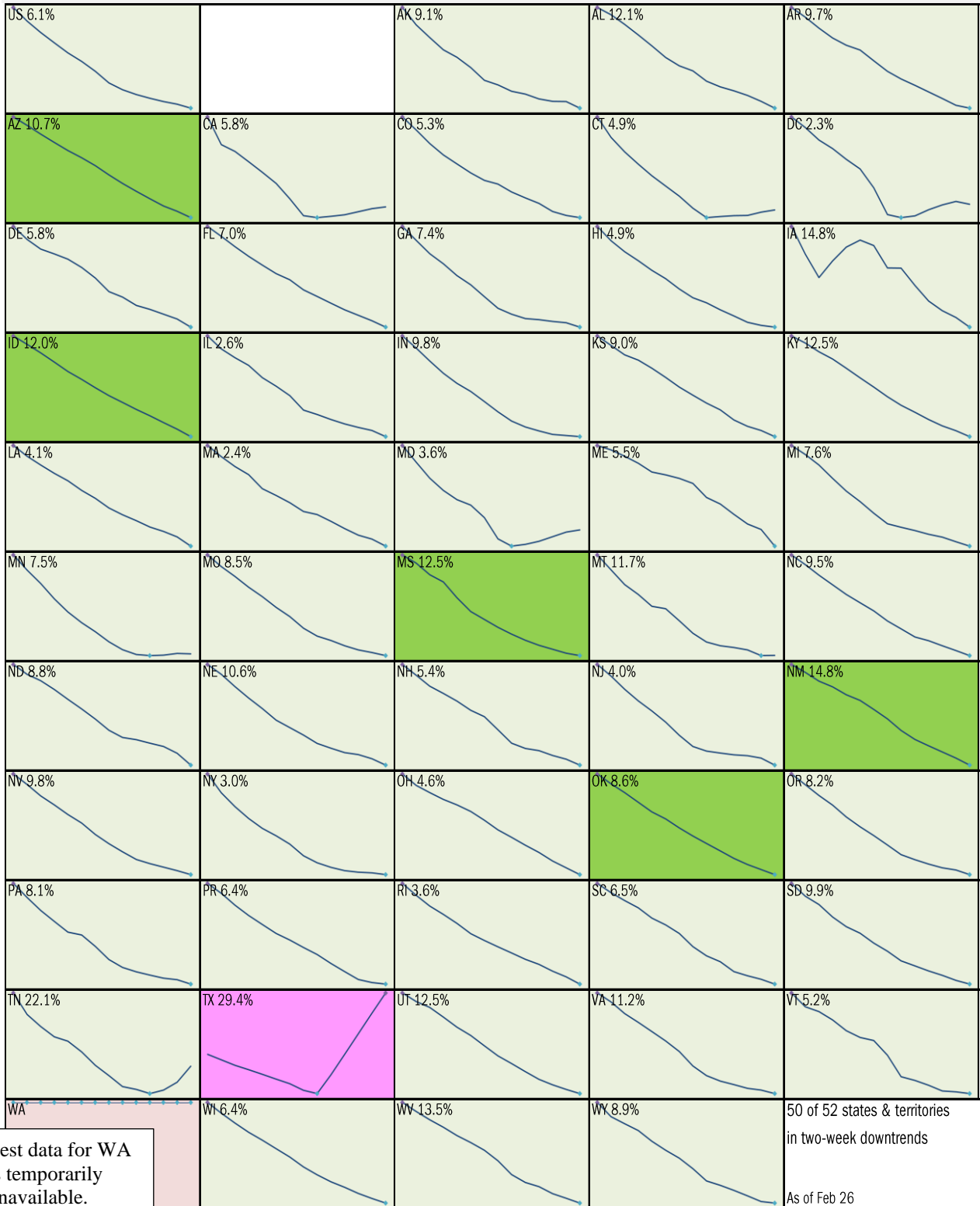


Source: [Johns Hopkins](#), TrendMacro calculations

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



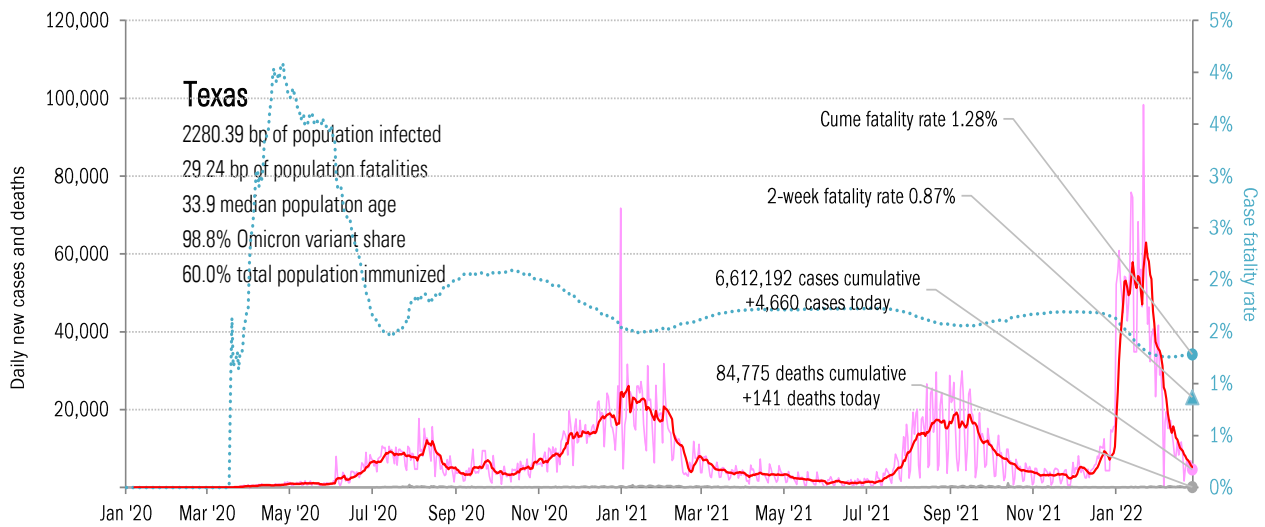
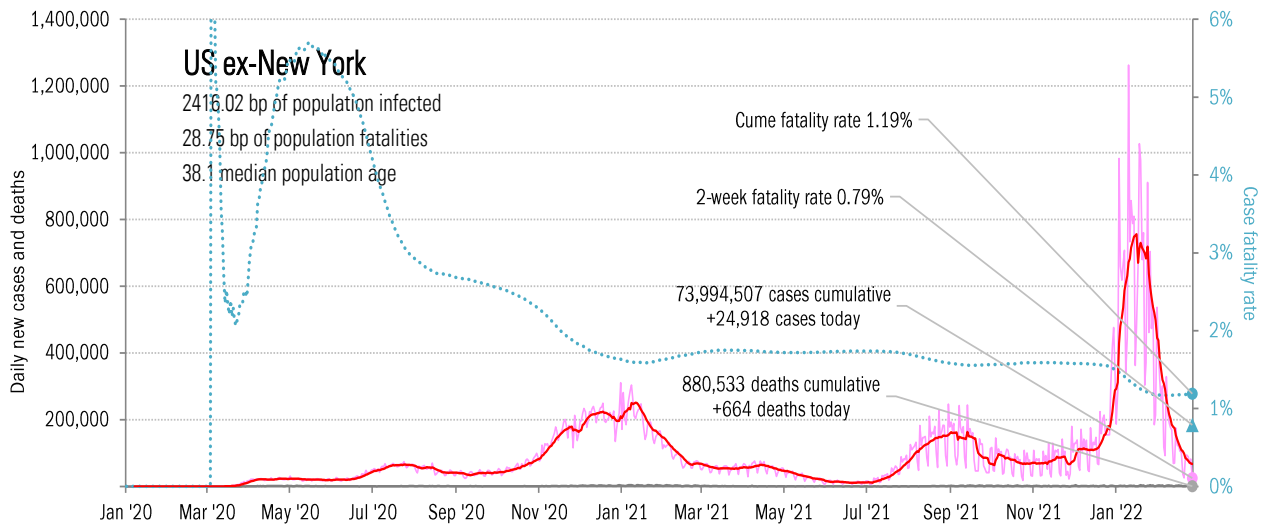
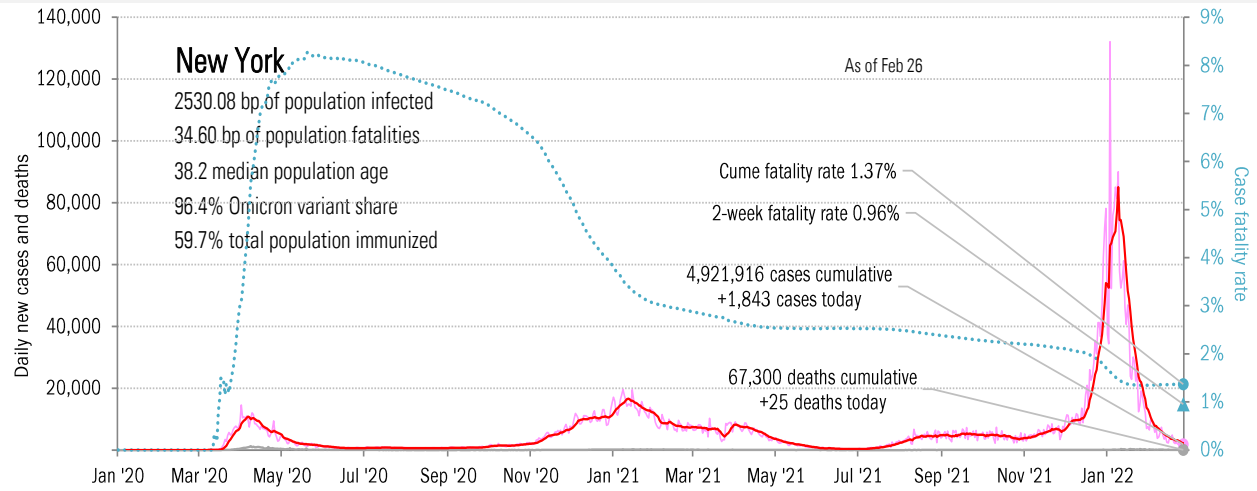
50 of 52 states & territories in two-week downtrends
As of Feb 26

Test data for WA is temporarily unavailable.

Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande

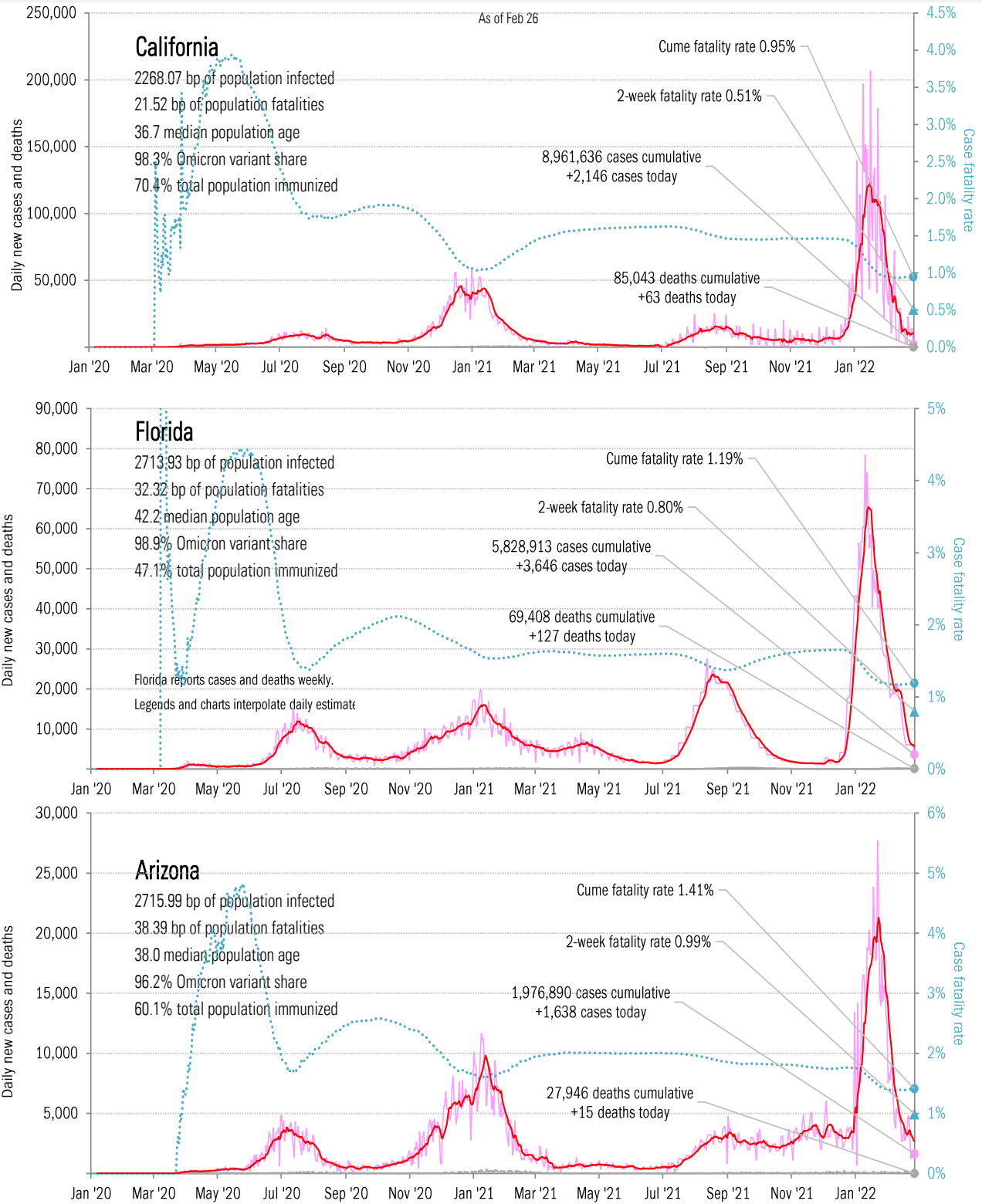
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

The sun-belt hot-spot states

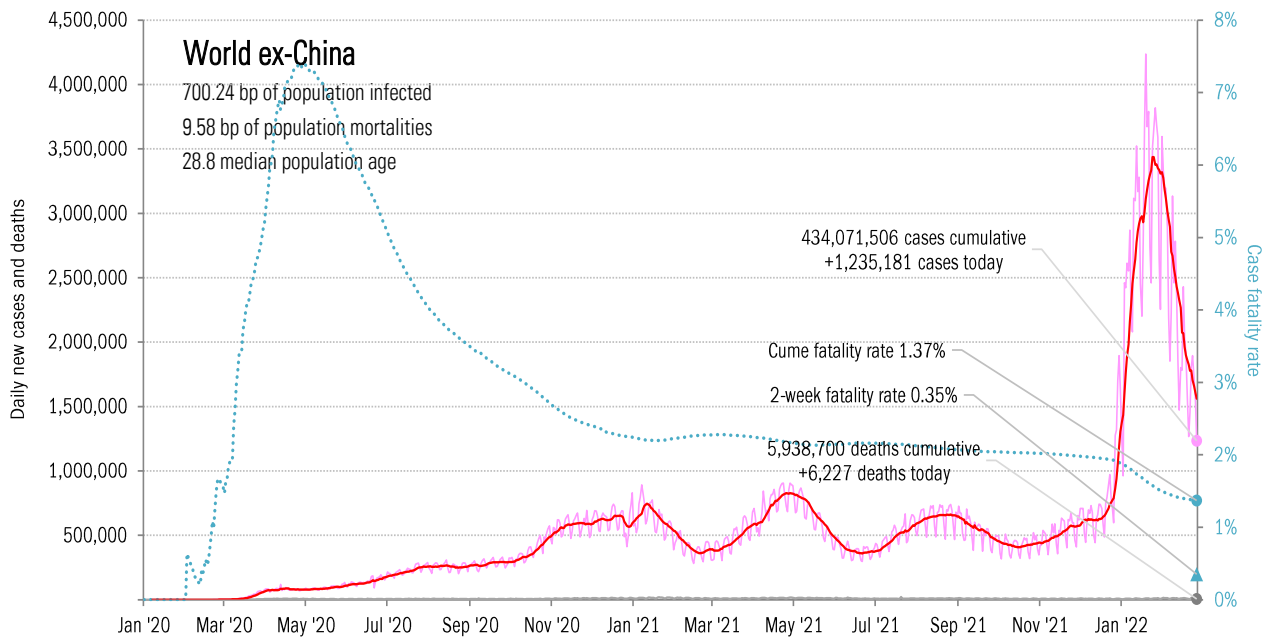
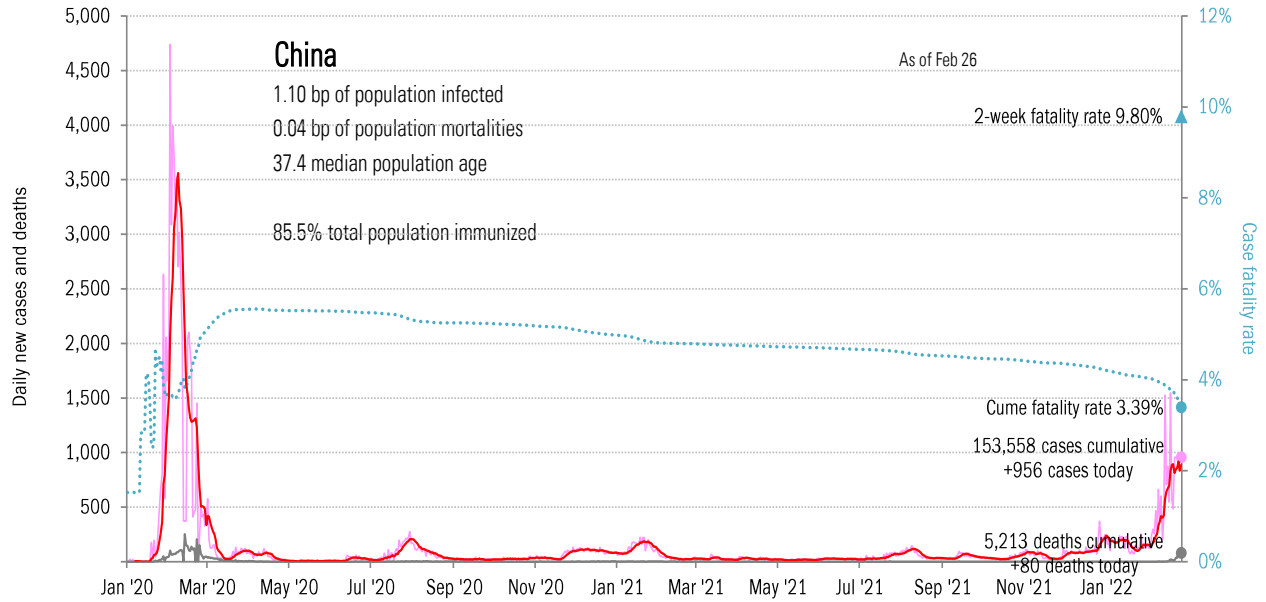
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

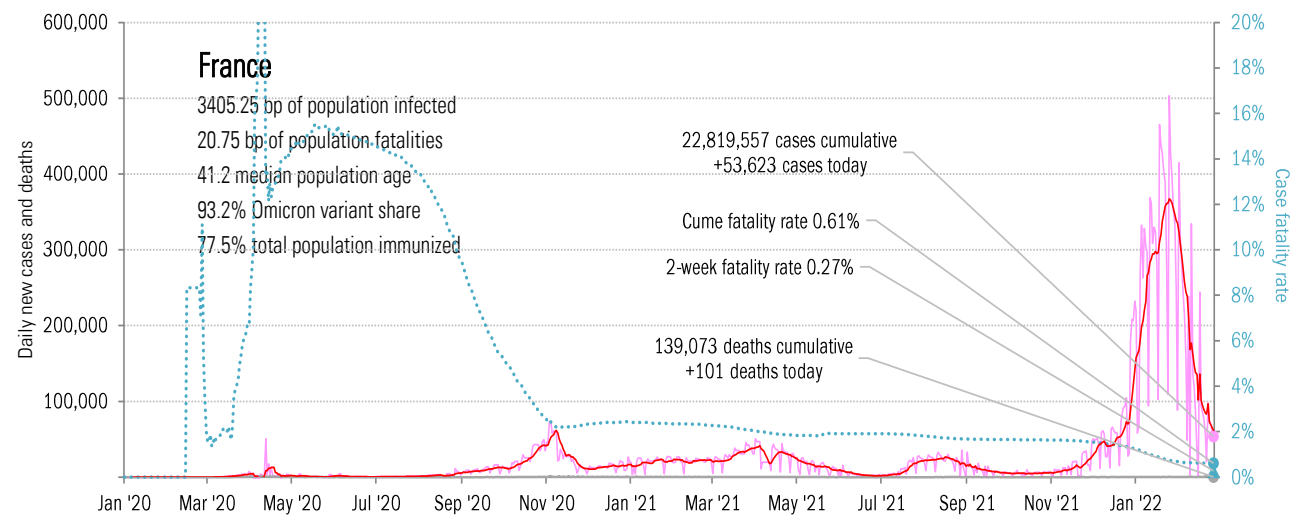
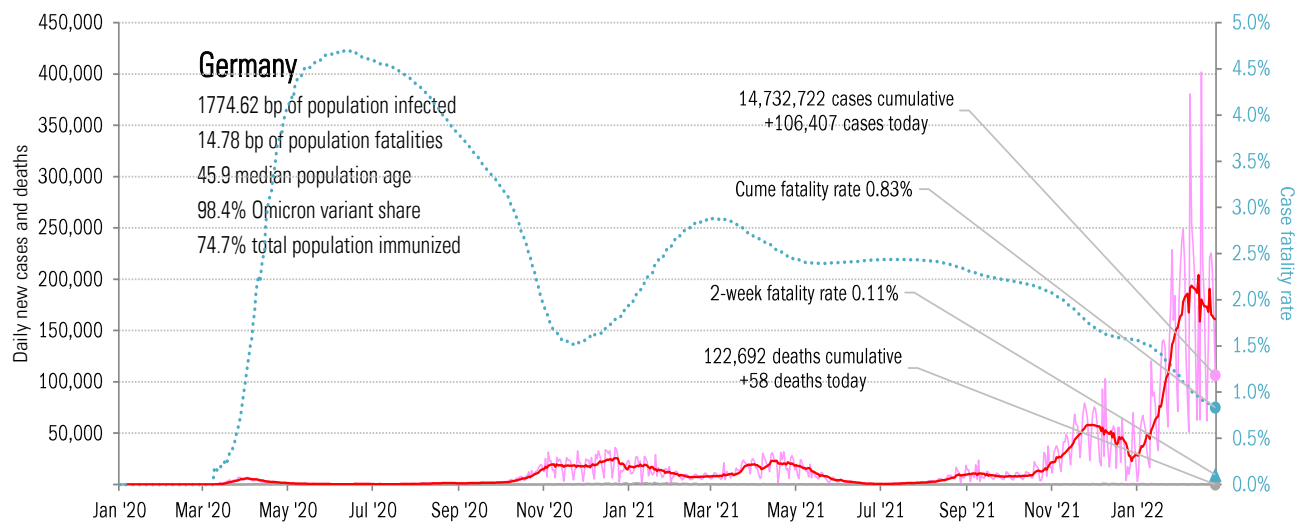
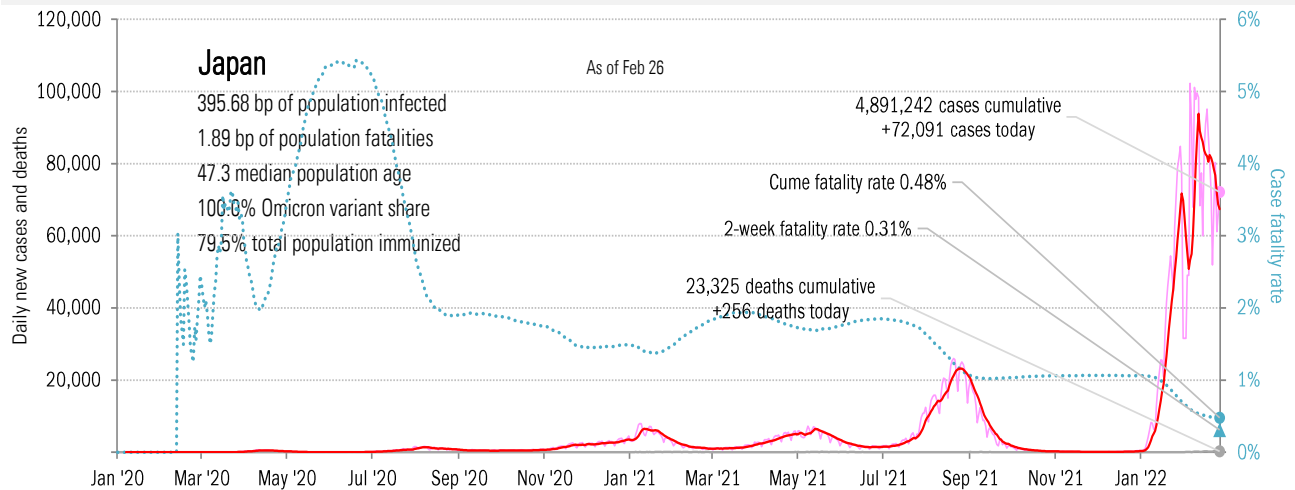
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

Impact in the largest economies

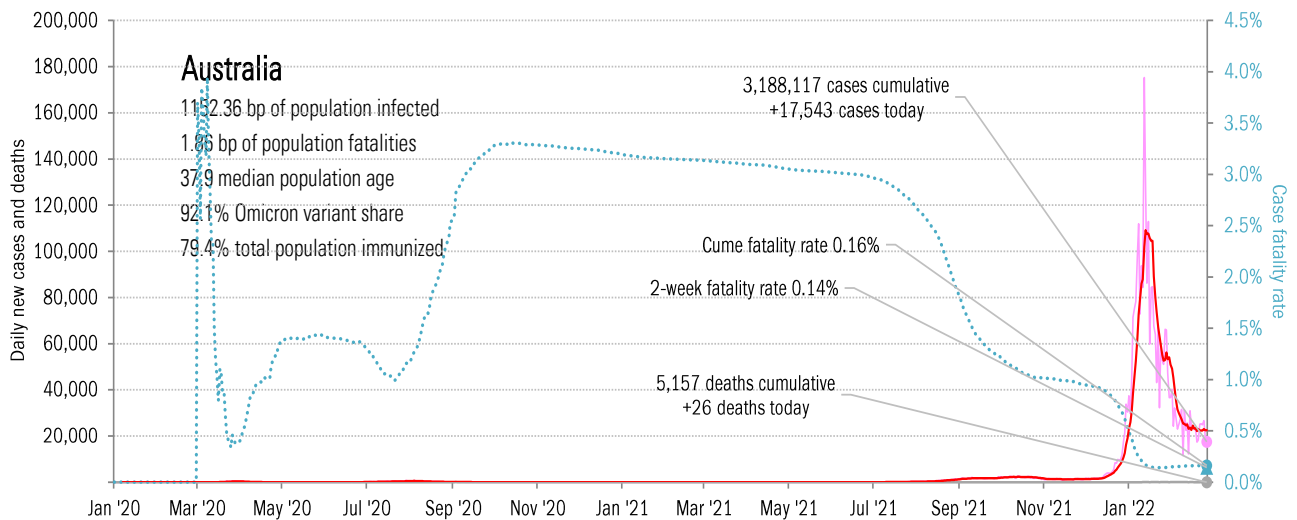
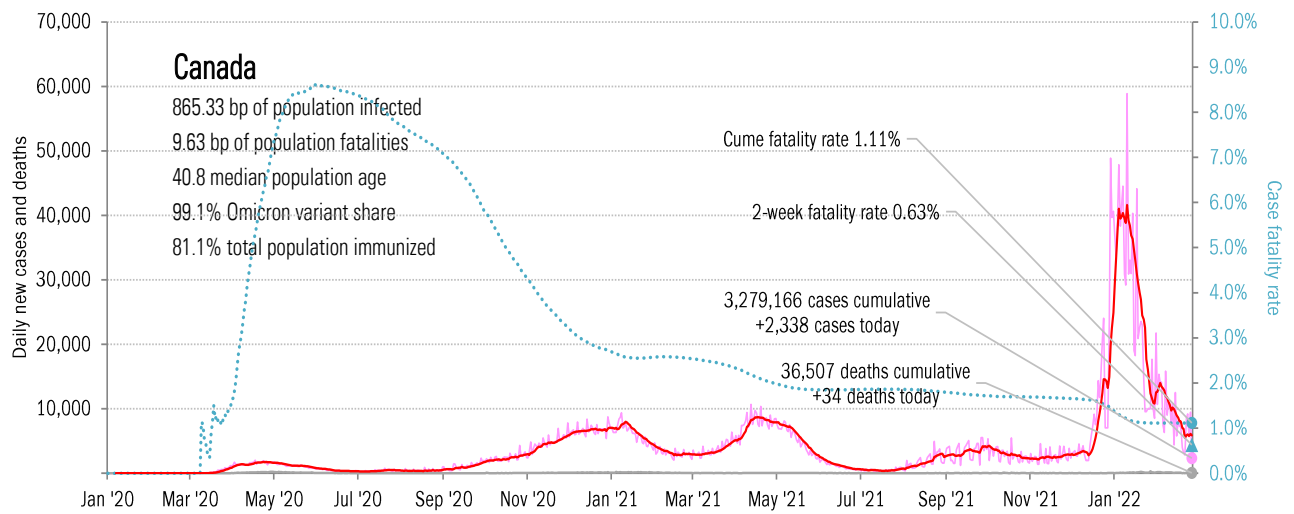
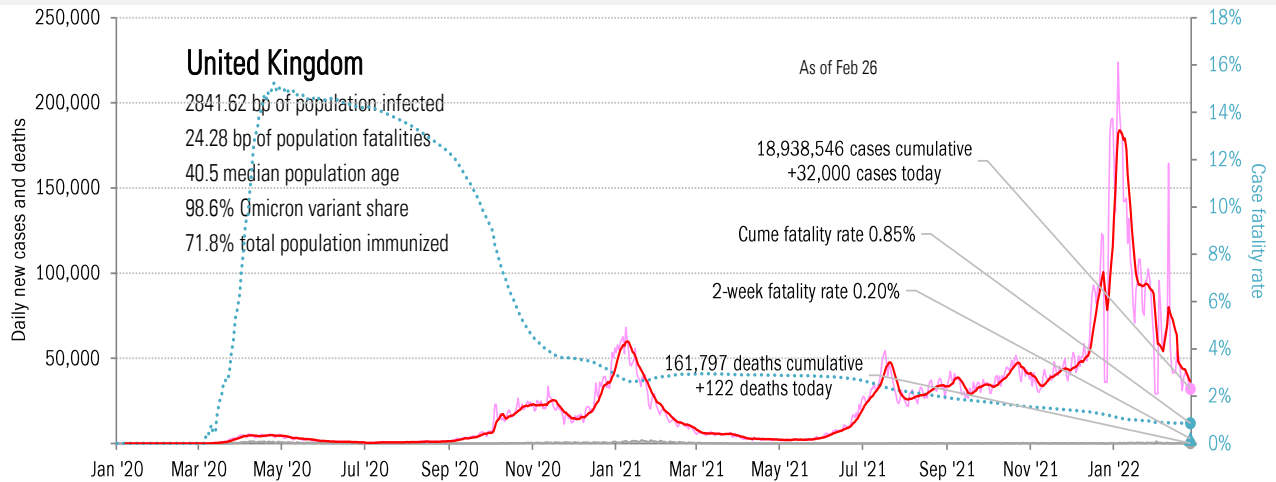
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

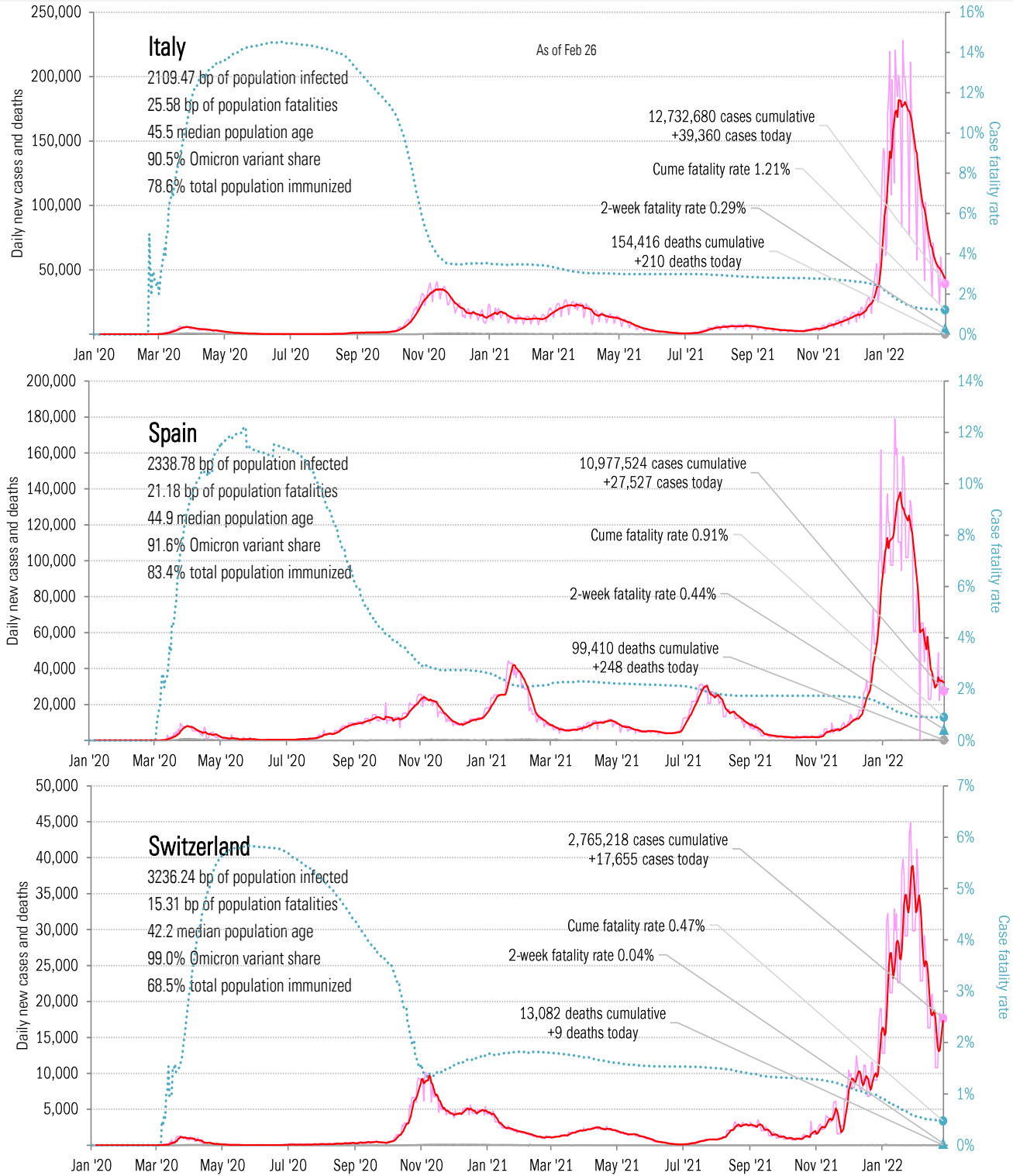
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

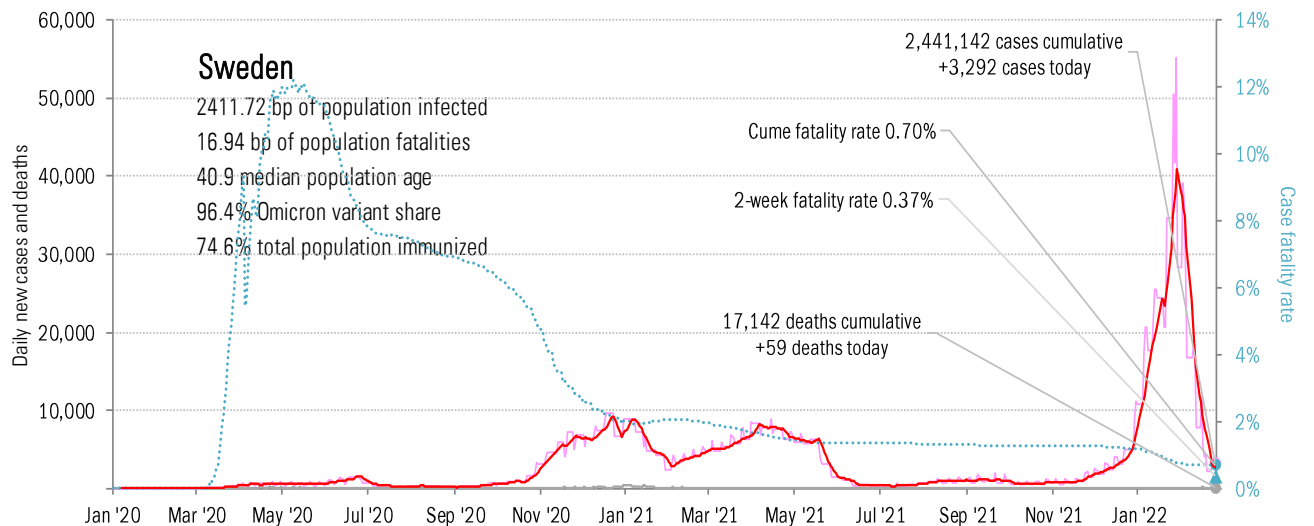
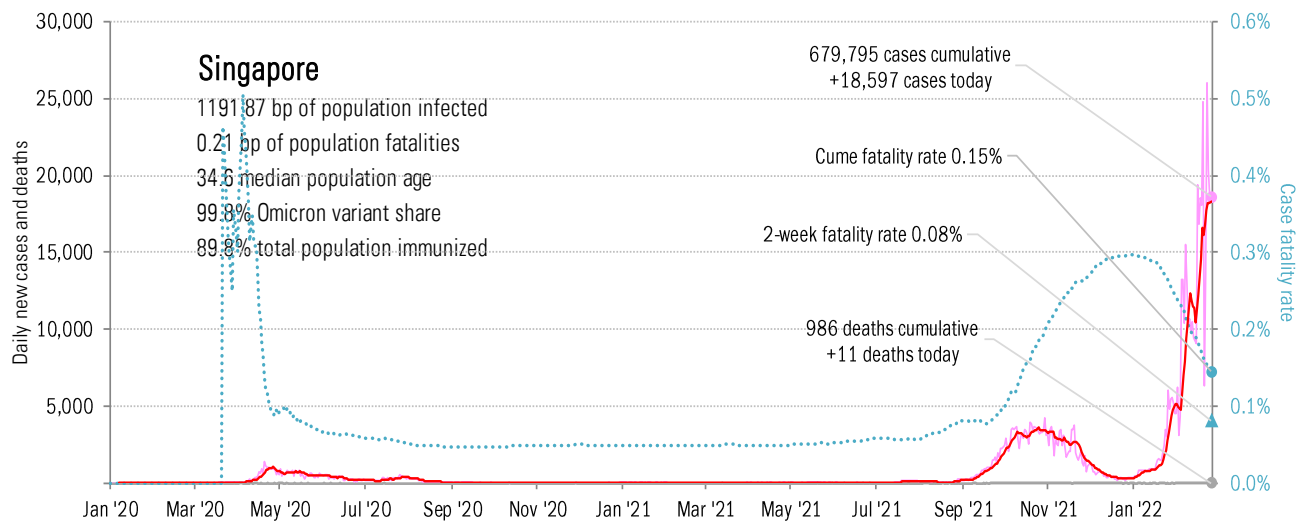
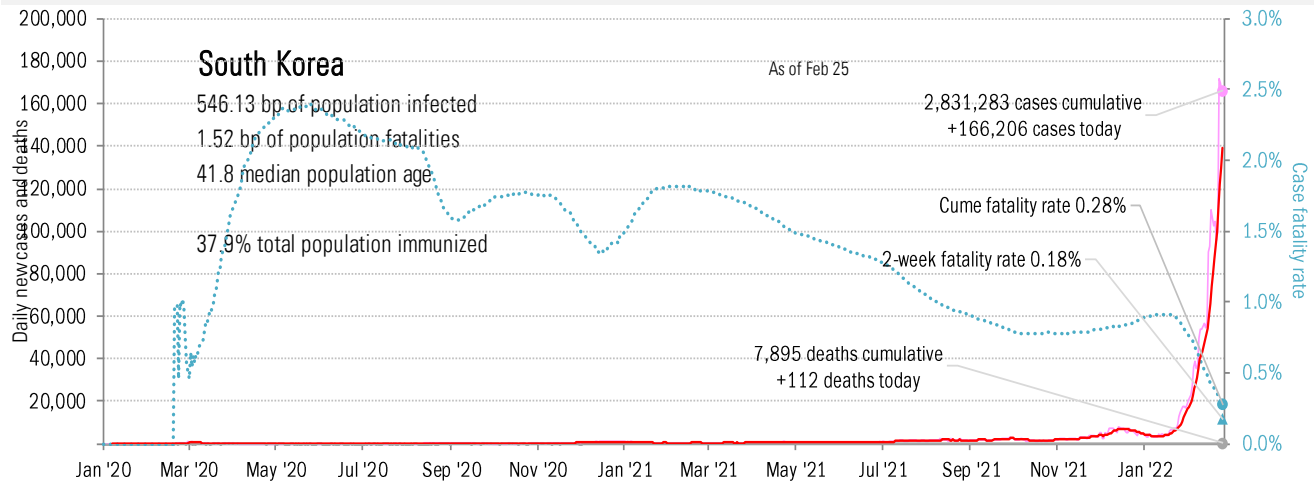
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

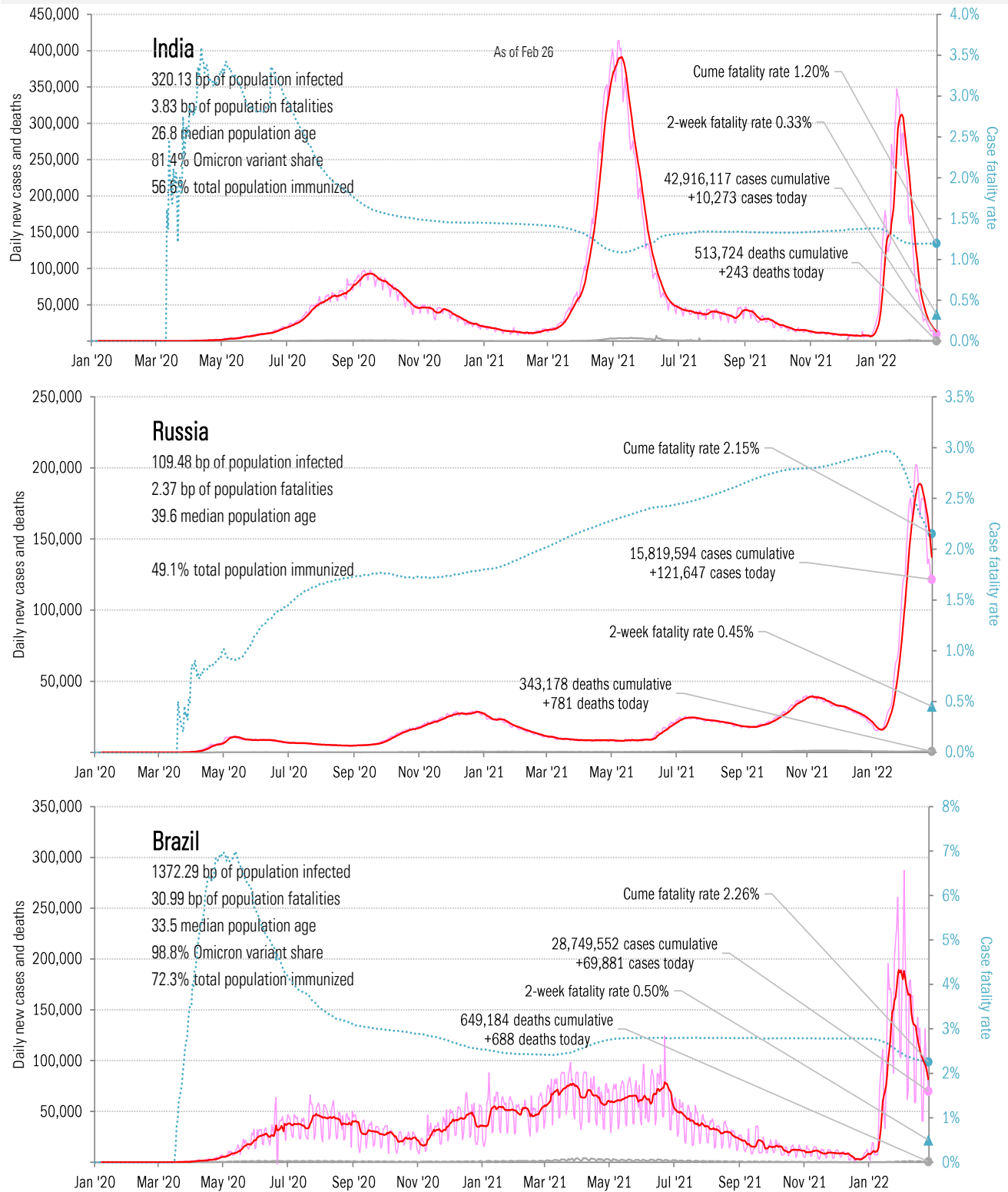
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

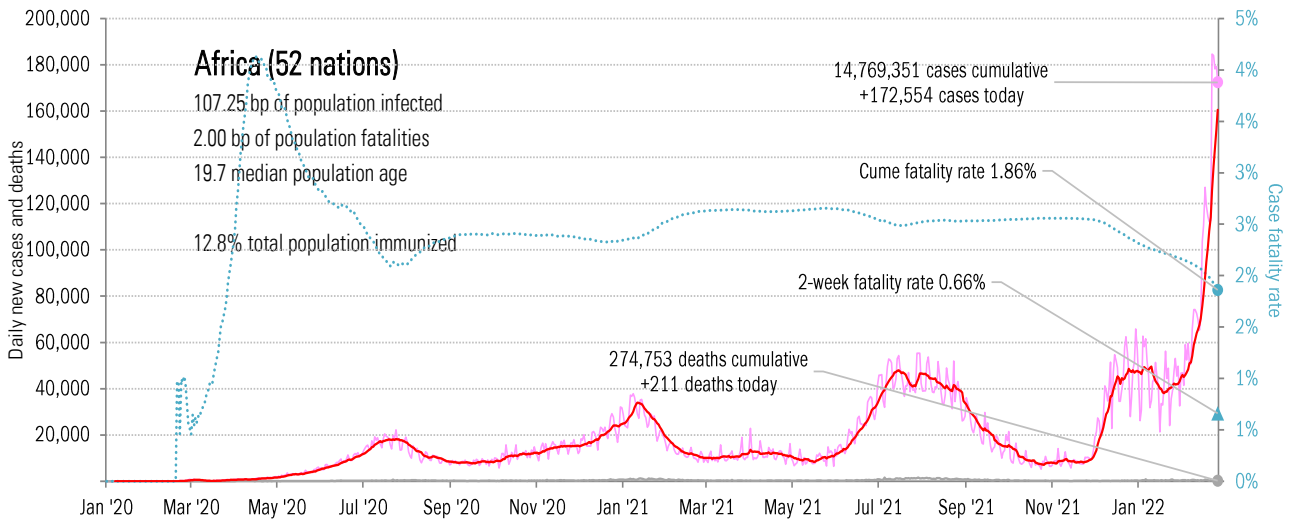
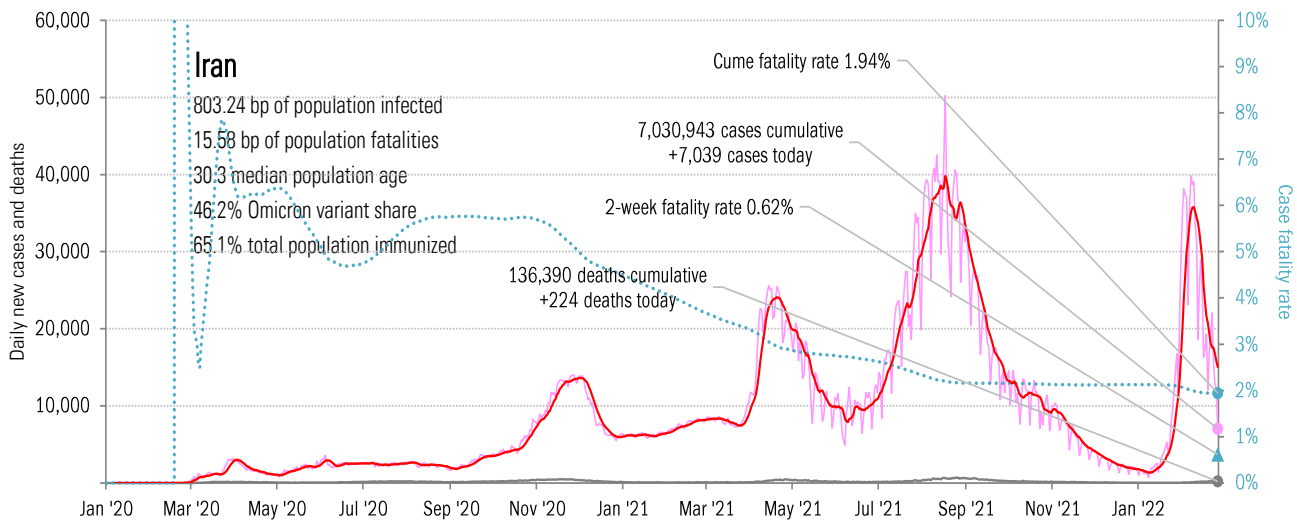
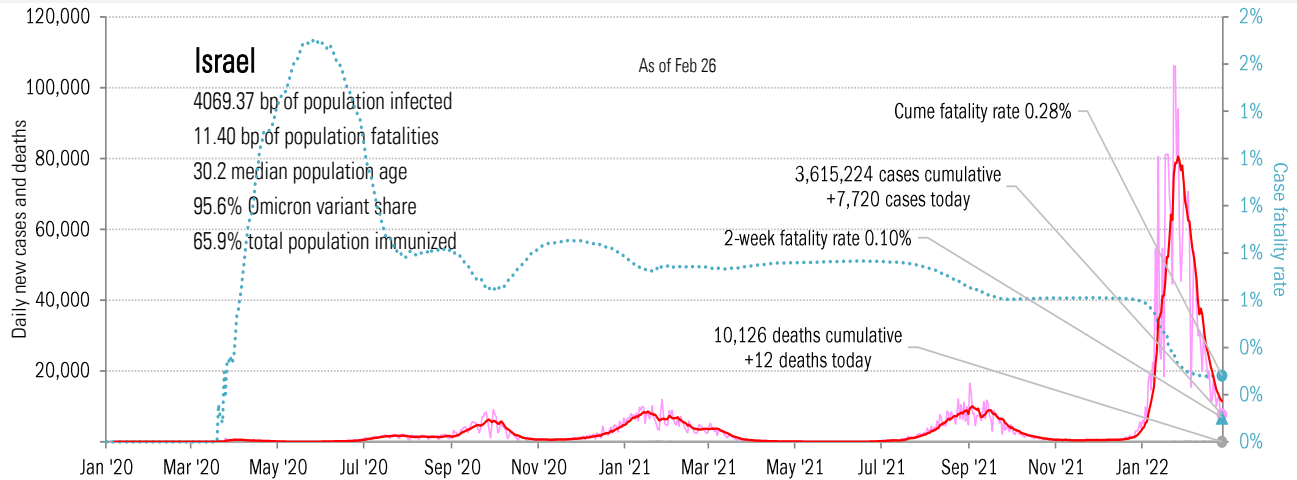
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

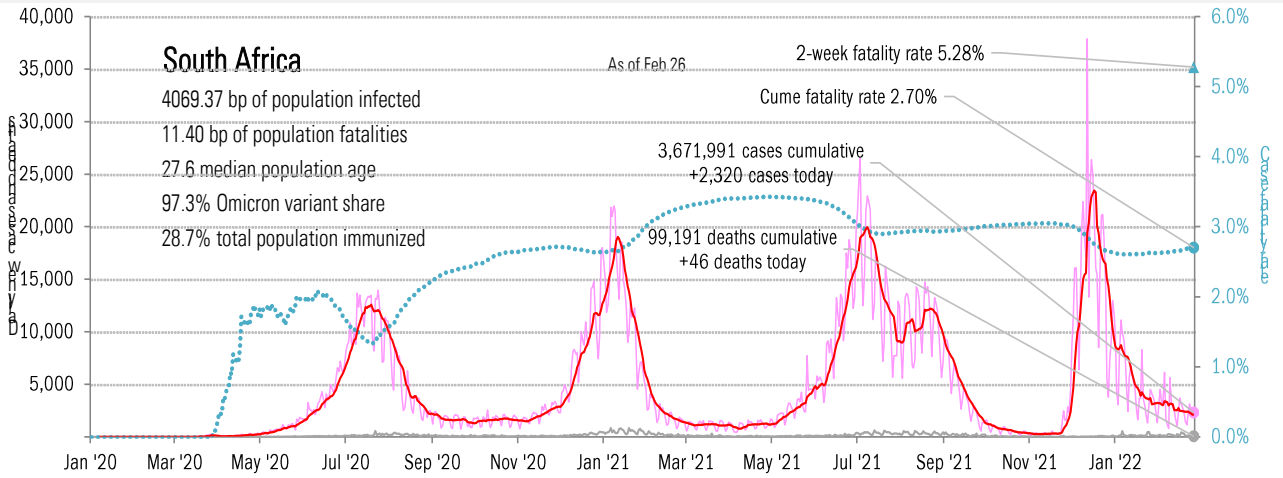
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations V