

Data Insights: Covid-2019 Monitor

Thursday, December 15, 2022

The global scorecard

Cases: 7-day average and daily Deaths: Daily

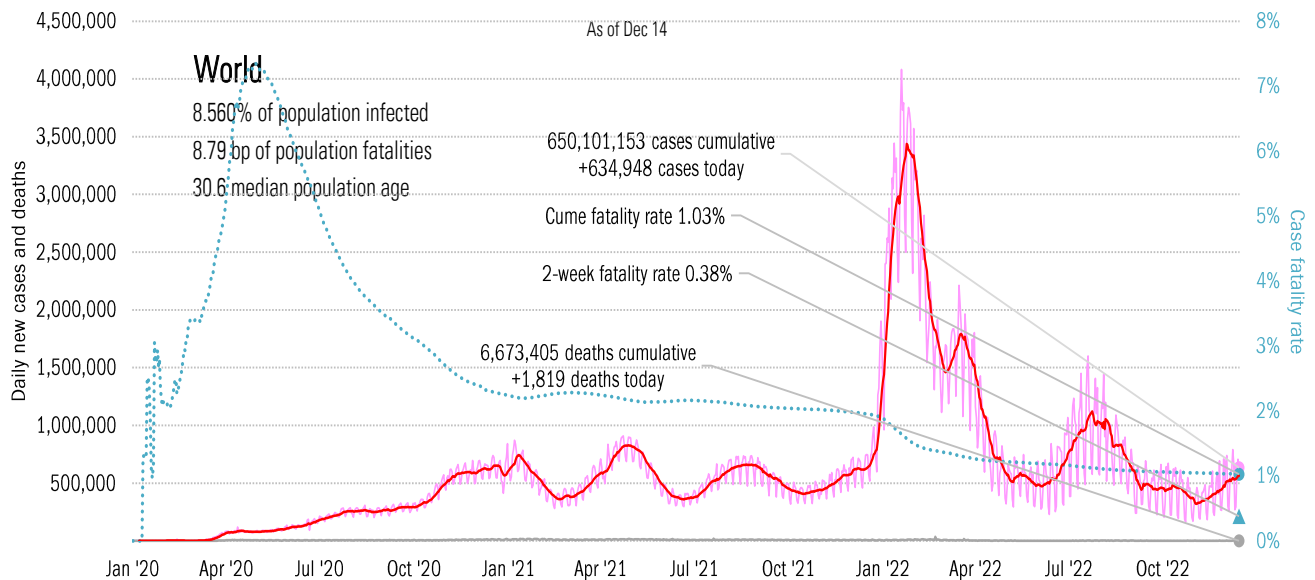
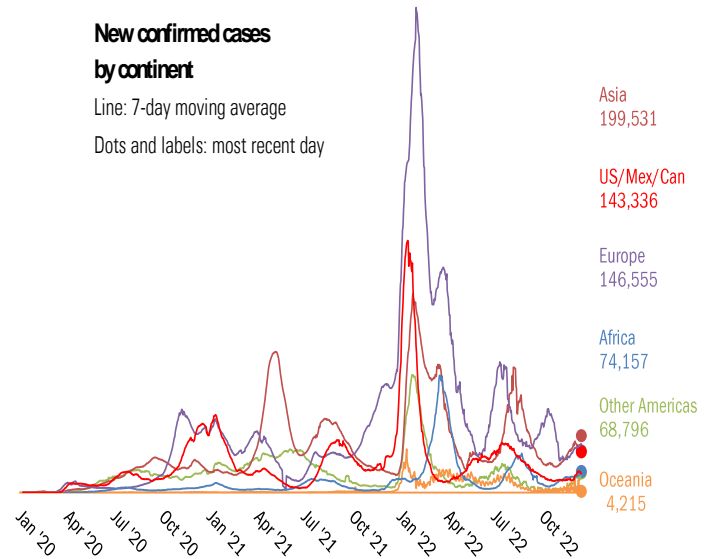
The worst ten countries

New cases		New Deaths	
Japan	190,607	United States	374
Korea, South	70,154	Brazil	271
United States	59,069	Japan	244
Brazil	54,493	Italy	98
Italy	31,618	Portugal	59
France	10,051	Canada	58
Russia	7,485	Korea, South	58
China	7,236	Ukraine	57
Austria	7,136	Russia	54
Germany	6,688	Spain	45
444,537		1,318	
World	634,948	World	1,819
Top ten	70%	Top ten	72%

New confirmed cases by continent

Line: 7-day moving average

Dots and labels: most recent day



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

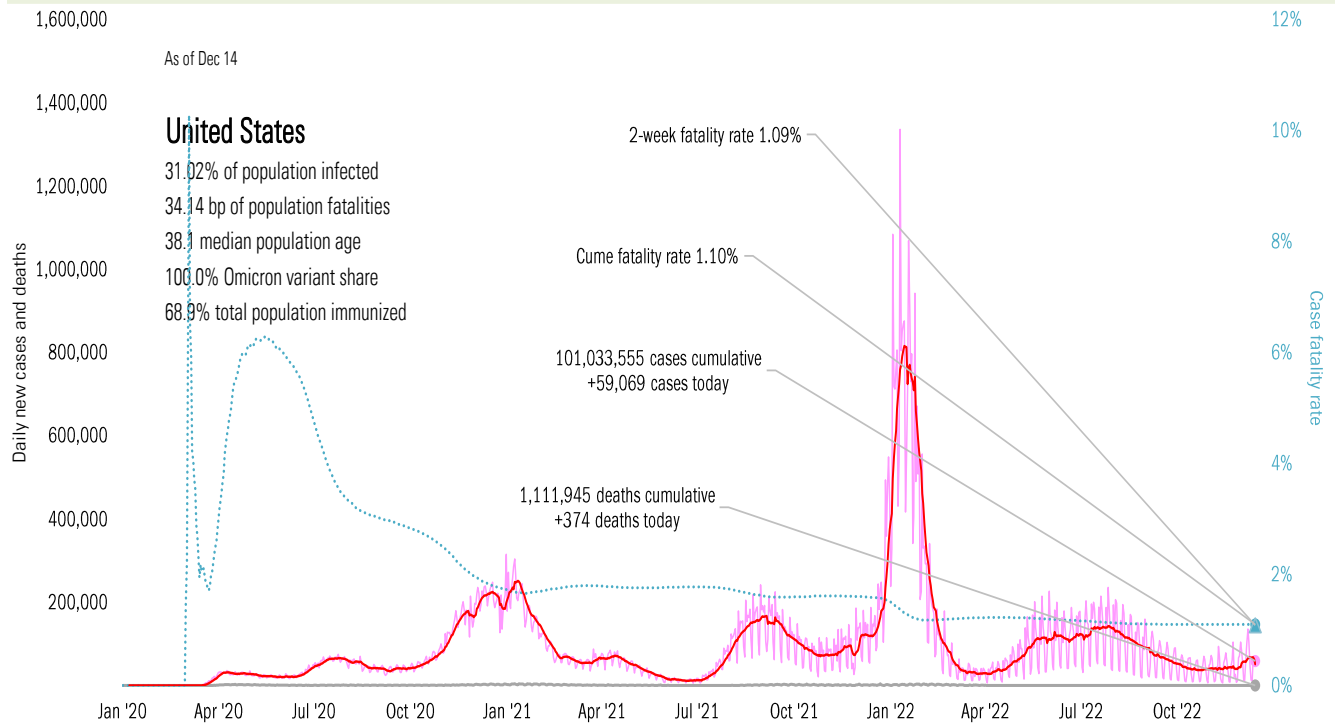
The ten worst US states

New cases			New deaths			New in hospital			Cumulative cases			Cumulative deaths			Cumulative in hospital			Hospital use		ICU use	
NY	5,397		NY	49		IL	310		CA	11,637,423		CA	97,918		TX	561,027		RI	90%	NH	88%
FL	4,419		CA	26		LA	117		TX	8,162,716		TX	91,591		CA	530,026		WA	88%	TX	87%
CA	4,237		MI	26		GA	168		FL	7,270,410		FL	83,201		FL	507,945		NH	87%	MA	87%
IL	3,838		ND	25		WI	105		NY	6,469,854		NY	74,463		NY	327,059		MA	87%	AL	87%
TX	3,613		NJ	22		FL	295		IL	3,922,623		PA	48,662		GA	231,866		GA	86%	VT	86%
NJ	2,729		IL	20		NY	474		PA	3,388,571		GA	41,244		CH	231,282		MO	85%	NM	86%
VA	2,296		PA	19		MA	140		NC	3,300,138		CH	40,644		PA	216,974		MN	85%	AR	85%
CH	2,294		AZ	15		VA	103		CH	3,259,911		MI	40,508		IL	199,960		CR	85%	DC	83%
NC	1,884		TX	15		SC	64		MI	2,963,404		IL	40,461		MI	172,355		WV	85%	NC	83%
PA	1,865		FL	15		NC	92		GA	2,963,232		NJ	35,290		NJ	149,552		NM	83%	CR	82%
32,573			233			1,868			53,338,282			593,982			3,128,046						
All states	59,069			374			5,308		All states	101,033,555			1,111,945			5,681,869		All states	70%		67%
Top ten	55%			62%			35%		Top ten	53%			55%			55%		Median	80%		78%

Some states not reporting

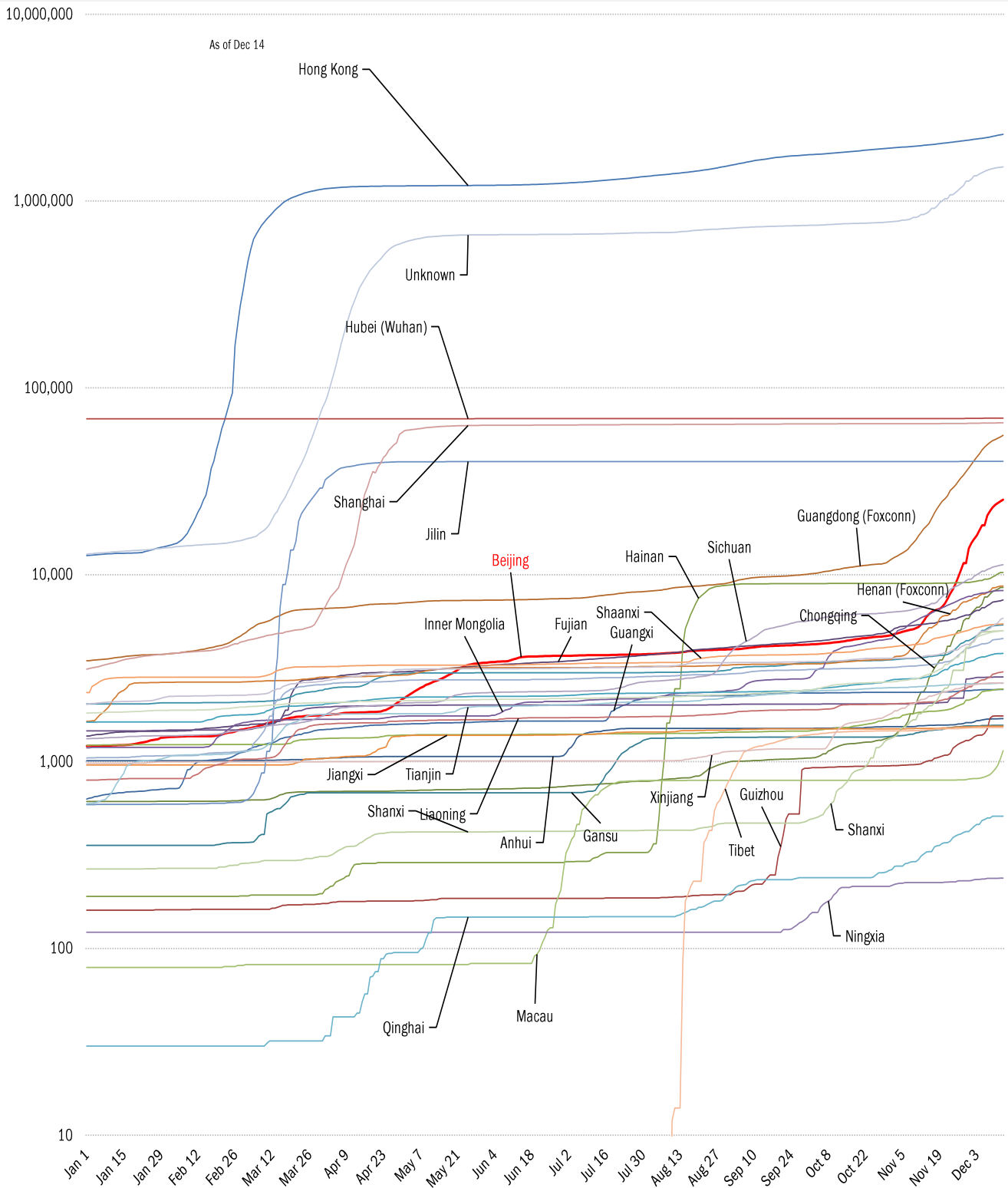
Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
MD	-1,253	NY	-38	TX	-131
MO	-639	CO	-22	CA	-56
AZ	-633	MD	-12	PA	-46
NY	-397	CT	-5	MI	-43
AR	-204	MO	-4	CR	-37



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

China provincial coronavirus case accelerometer... tracking the "zero Covid" curves
Cumulative reported cases this year, log scale: flat line indicates "zero Covid"

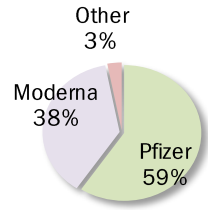


Source: [Johns Hopkins](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative		Today		Immunity	Full	Partial
Doses	674,343,860		+0.193 million		US	68.9%	80.6%
			Of which boosters: +0.168 million		UK	75.2%	79.7%
	One dose	% Pop	Immune	% pop	New immune today	France	78.3%
Total population	276,021,875	83%	235,392,888	70%	+0.017 million	Spain	85.5%
Age 12 to 17	18,376,705	73%	15,735,507	62%	+0.001 million	Germany	76.2%
Age 18 to 64	183,614,597	90%	156,164,584	77%	+0.009 million	Italy	81.3%
Age 65 and over	60,829,321	100%	53,278,288	97%	+0.004 million	Australia	82.7%
						Israel	65.2%
						Canada	82.5%
						Japan	83.1%
						Africa	26.0%
						India	67.1%
						Brazil	80.9%
						China	89.3%



AK
72.6%
64.8%

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

Best
Middle
Worst

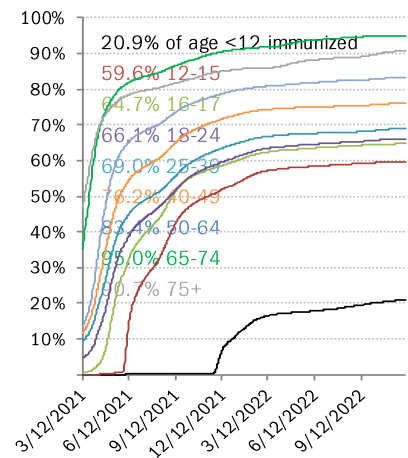
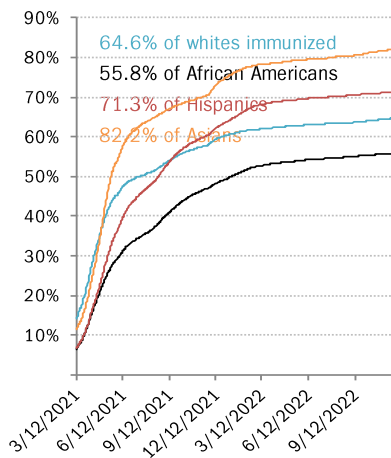
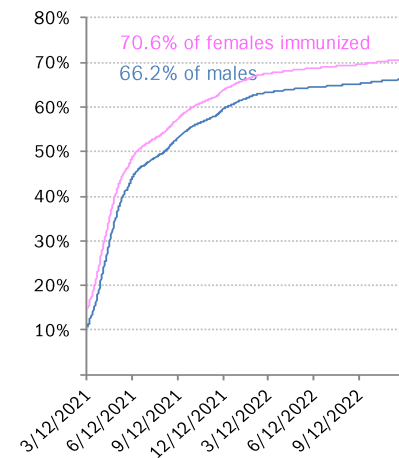
"Immunity" = two doses

As of Dec 9

Global data differs due to sources, timing

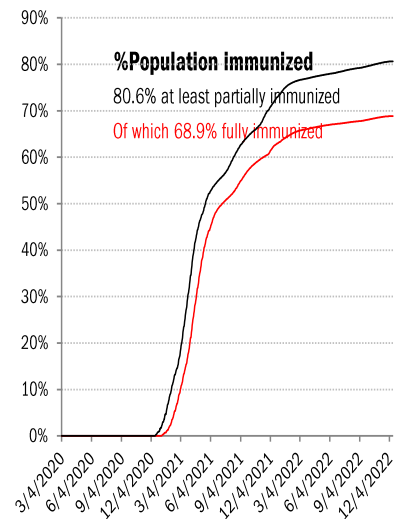
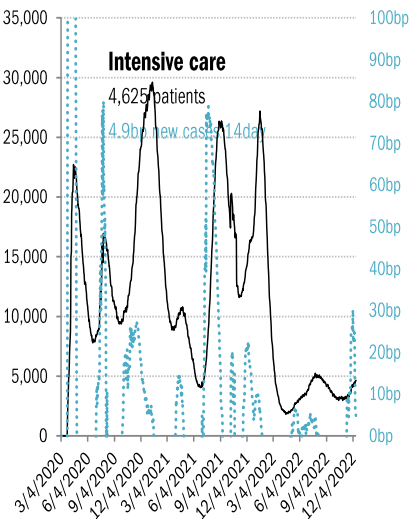
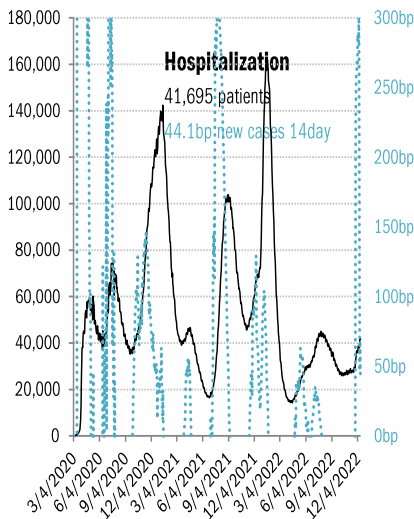
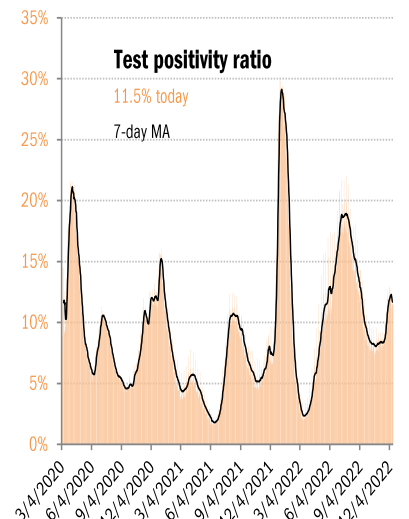
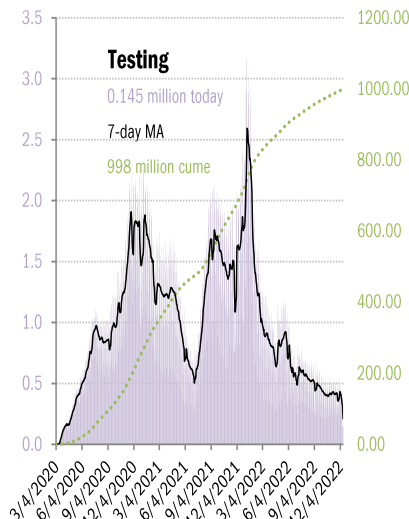
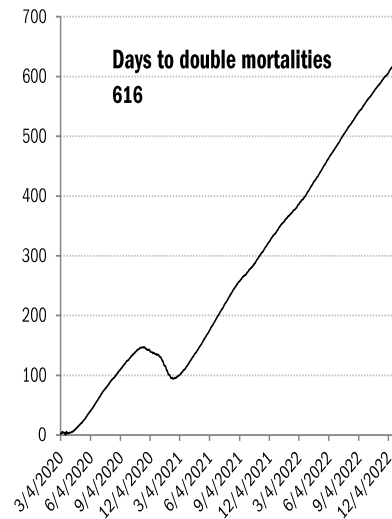
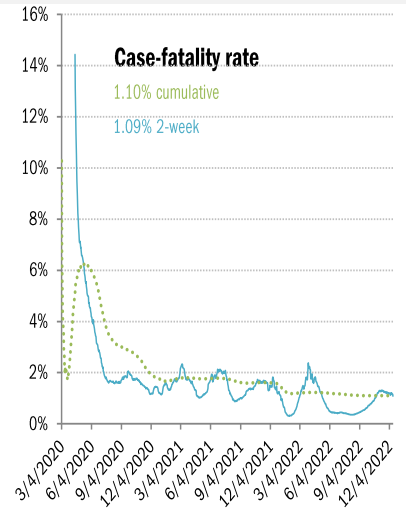
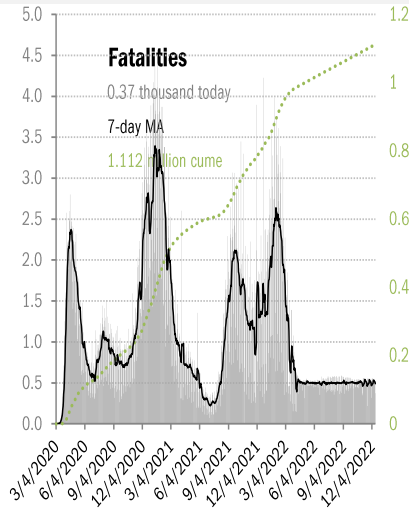
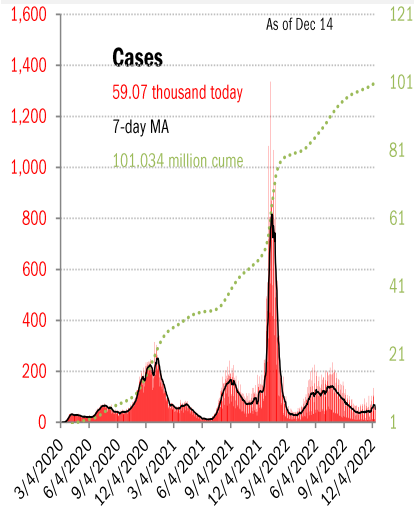
					WI						ME
					74.7%						95.0%
					67.8%						82.8%
WA	ID	MT	ND	MN	IL	MI			NY	VT	NH
84.6%	63.6%	67.9%	68.9%	78.3%	78.8%	69.1%			93.8%	95.0%	87.2%
75.6%	56.2%	58.9%	58.3%	71.7%	70.9%	62.1%			80.2%	85.0%	71.3%
OR	NV	WY	SD	IA	IN	OH	PA		NJ	MA	
81.0%	78.3%	60.5%	83.1%	70.3%	64.0%	65.4%	89.8%		94.0%	95.0%	
71.9%	63.1%	52.8%	65.8%	64.0%	57.5%	60.2%	72.7%		78.6%	83.6%	
CA	UT	CO	NE	MO	KY	WV	VA		MD	CT	RI
84.1%	74.8%	83.2%	73.0%	68.9%	68.5%	67.2%	90.3%		91.0%	95.0%	95.0%
74.2%	66.3%	73.1%	65.9%	58.7%	59.3%	59.5%	76.1%		79.2%	82.6%	87.1%
	AZ	NM	KS	AR	TN	NC	SC		DC	DE	
	76.8%	93.4%	75.7%	69.5%	64.2%	91.1%	70.6%		95.0%	86.7%	
	65.6%	74.7%	64.8%	56.6%	56.1%	66.4%	59.6%		84.8%	72.0%	
			OK	LA	MS	AL	GA				
			74.2%	62.6%	61.4%	64.7%	67.9%				
			60.1%	54.8%	53.5%	52.9%	56.9%				
			TX						FL		PR
			75.8%						82.0%		95.0%
			62.9%						69.1%		86.7%

The demographics of US vaccination

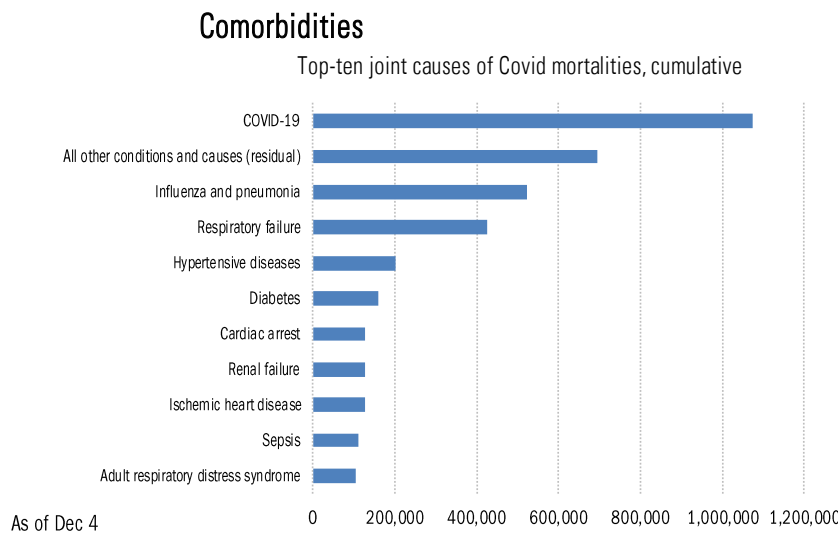
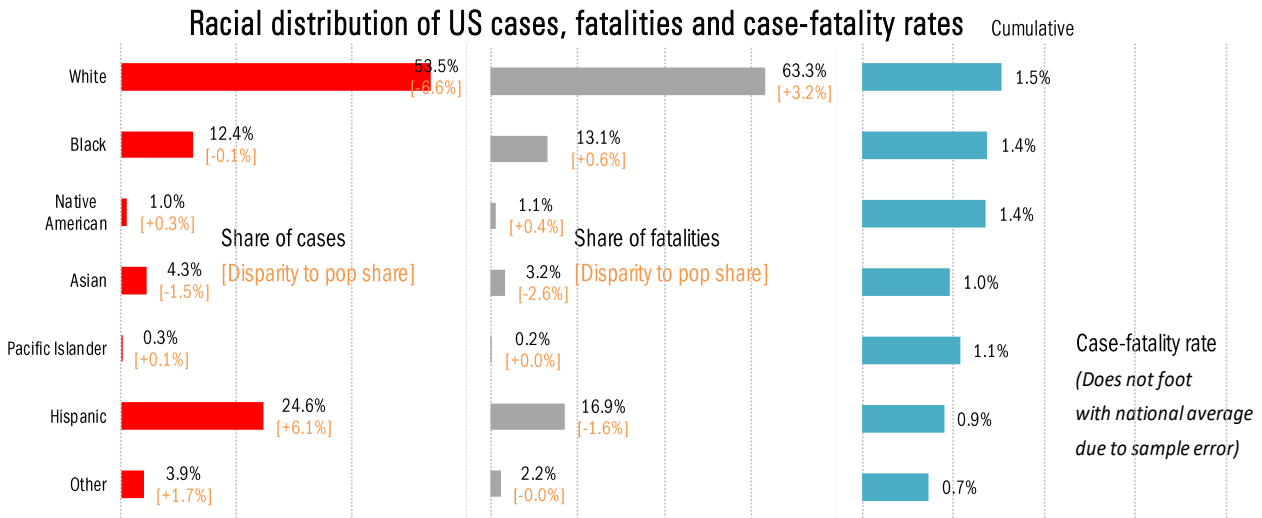
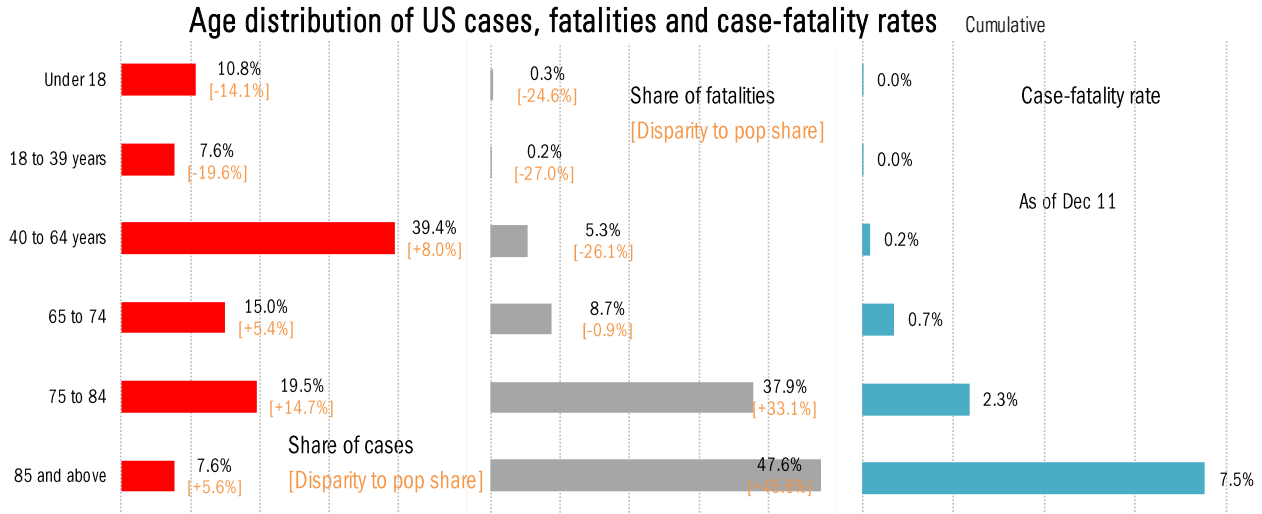


Source: CDC, CDC, Our World in Data, TrendMacro calculations

US deep-dive



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



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.

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

Recommended Reading

[How Fusion Works and Why It's a Breakthrough](#)

Steven E. Koonin and Robert L. Powell
Wall Street Journal
 December 14, 2022

[Two Years of U.S. COVID-19 Vaccines Have Prevented Millions of Hospitalizations and Deaths](#)

Meagan C. Fitzpatrick et al.
Commonwealth Fund
 December 13, 2022

[The dumbest, most dishonest argument for Covid jobs yet](#)

Alex Berenson
Unreported Truths
 December 14, 2022

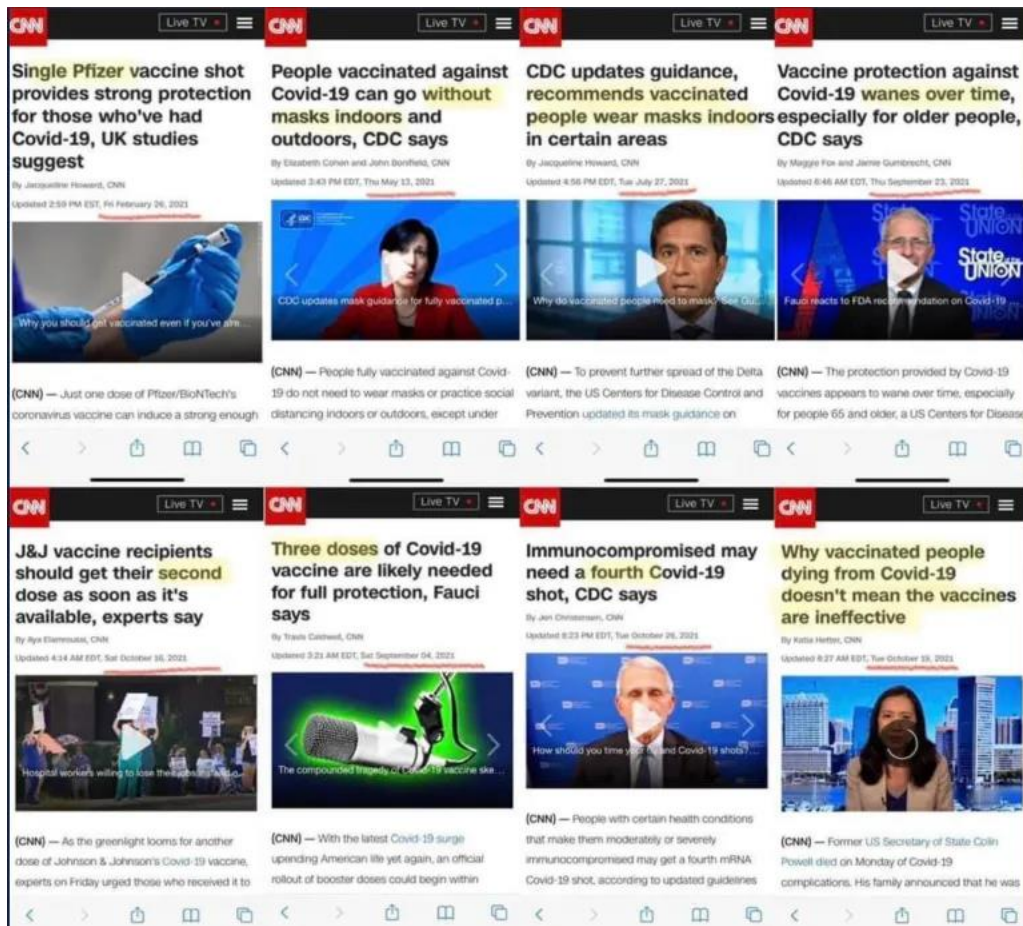
[Identification of Deaths With Post-acute Sequelae of COVID-19 From Death Certificate Literal Text: United States, January 1, 2020–June 30, 2022](#)

Farida B. Ahmad et al.
CDC NVSS Vital Statistics Rapid Release
 December 2022

[Long Covid Has Played Role in More Than 3,500 Deaths in U.S., C.D.C. Says](#)

Pam Belluck
New York Times
 December 14, 2022

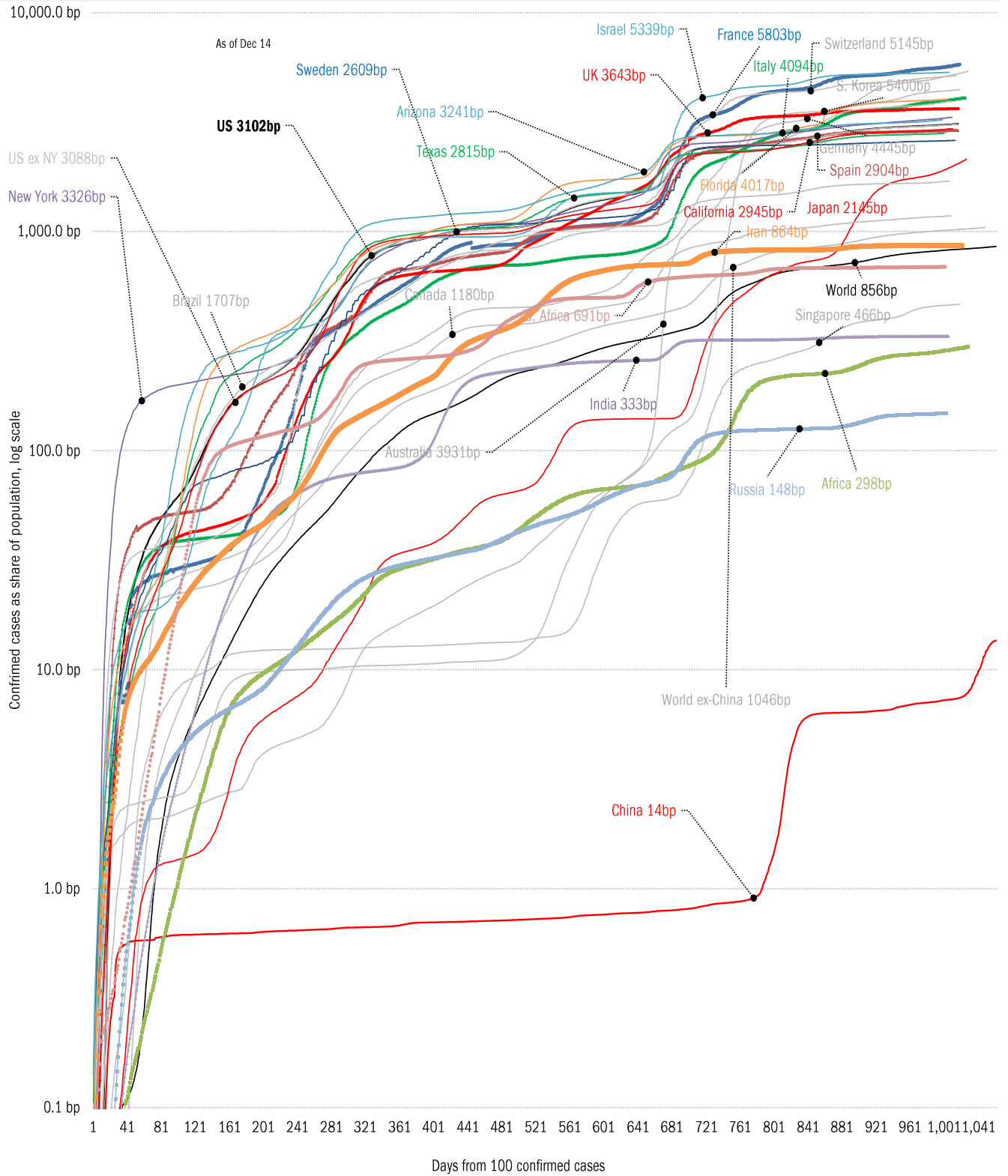
Meme of the Day



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

The global coronavirus case accelerometer... tracking the world's infection curves

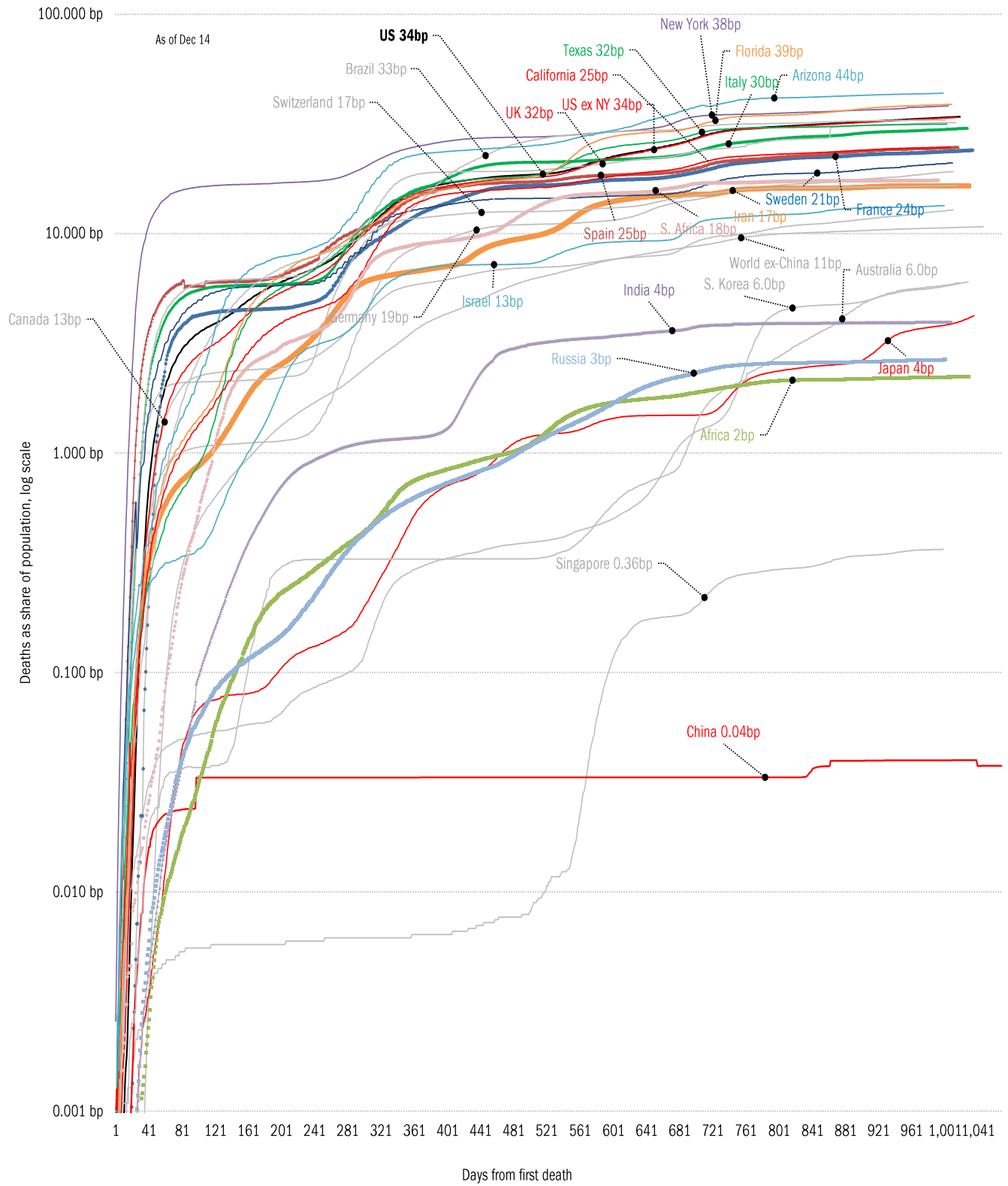
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality, log scale

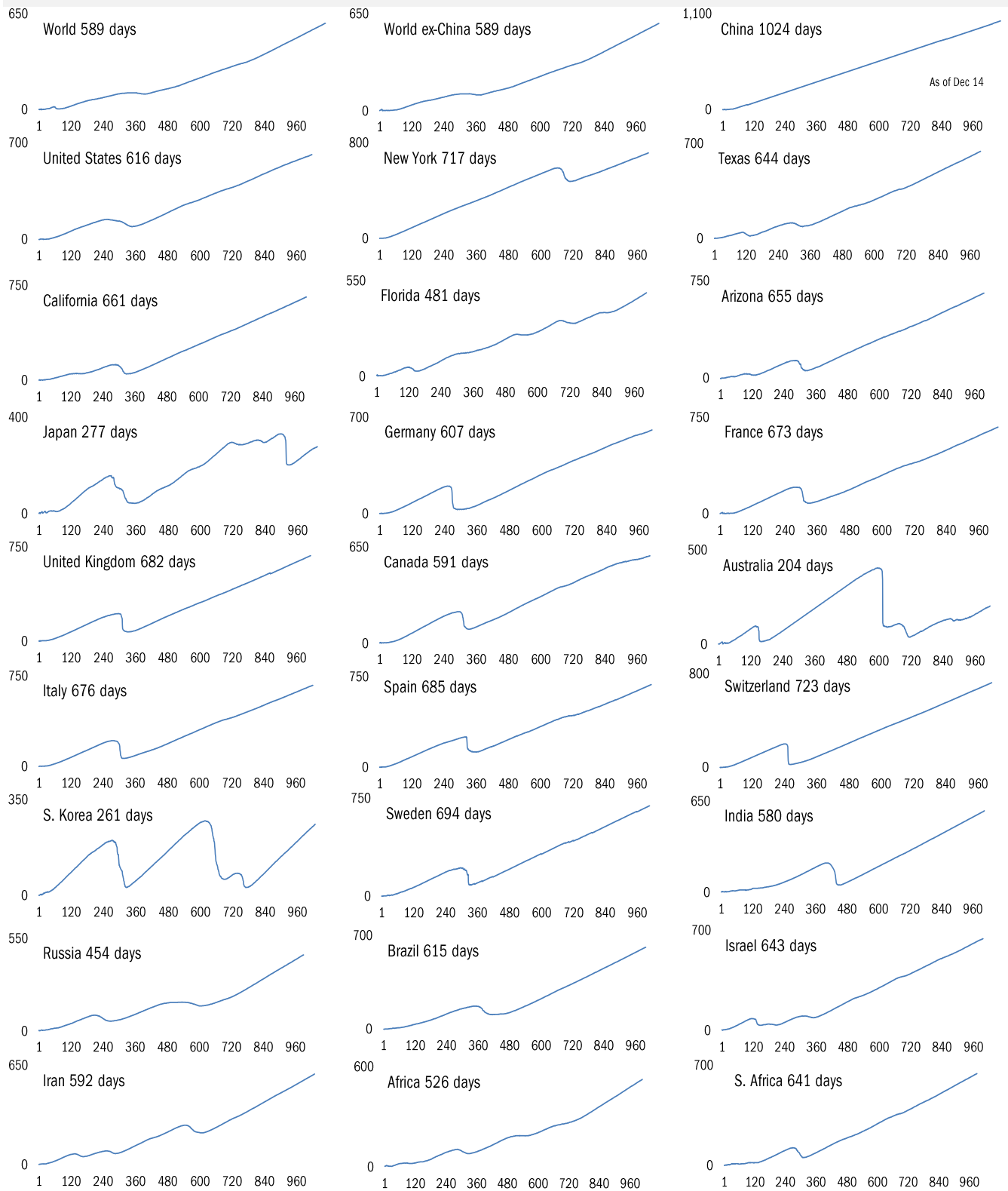


Source: [Johns Hopkins](#), TrendMacro calculations

Our most reliable evidence of the rate of spread of Covid-2019

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

Higher is good Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

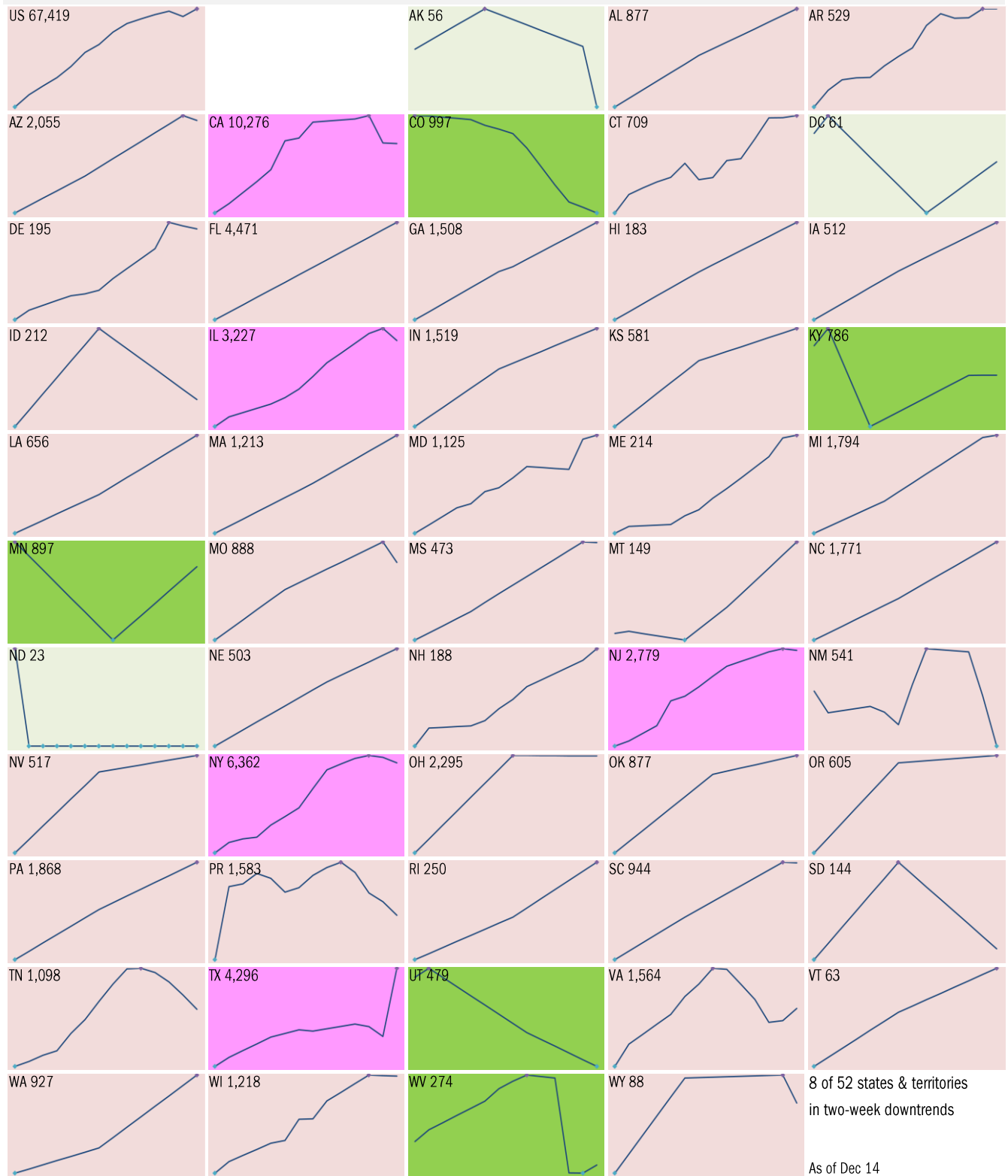


Source: [Johns Hopkins](#), TrendMacro calculations

14-day 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

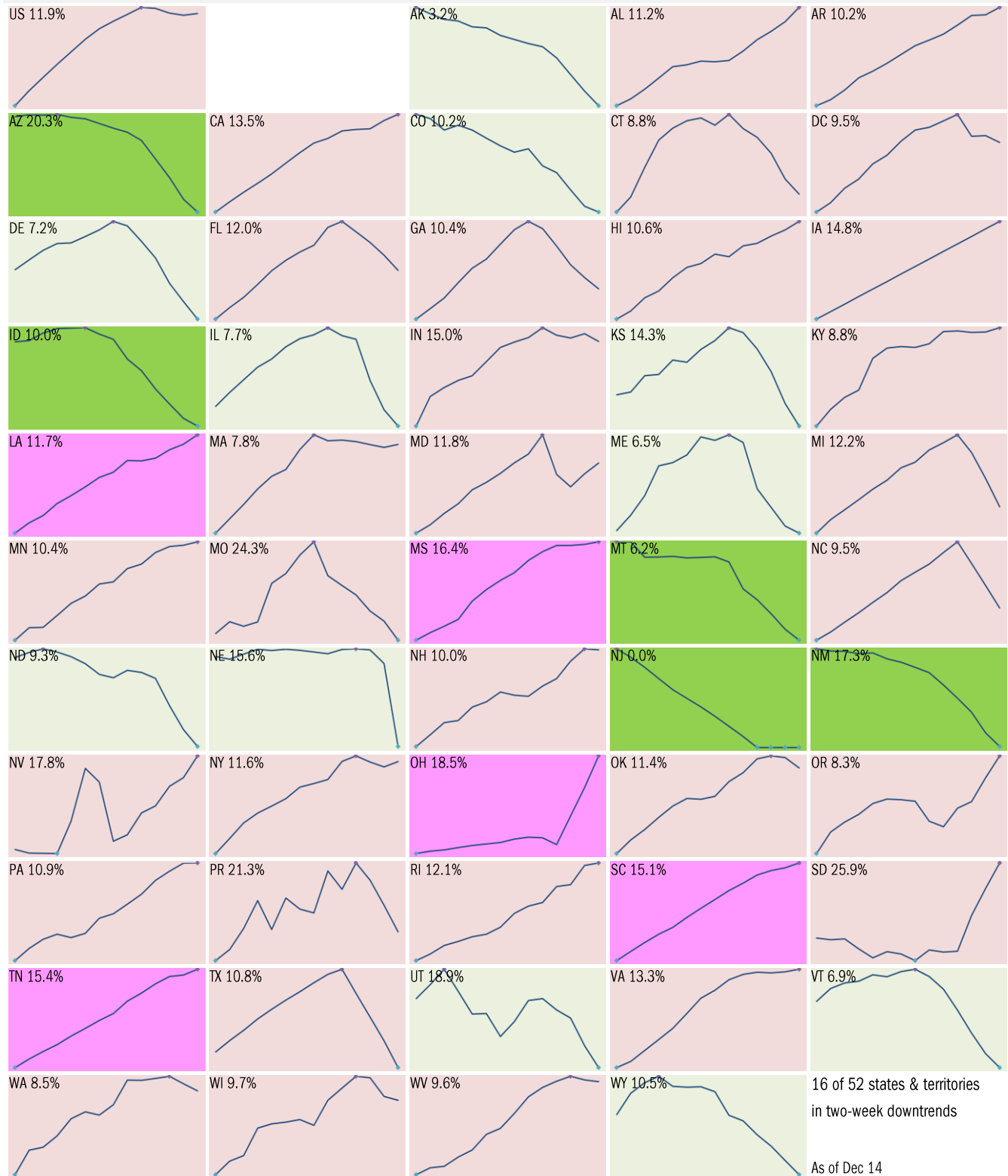


Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

14-day trajectory in test-positivity ratio

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

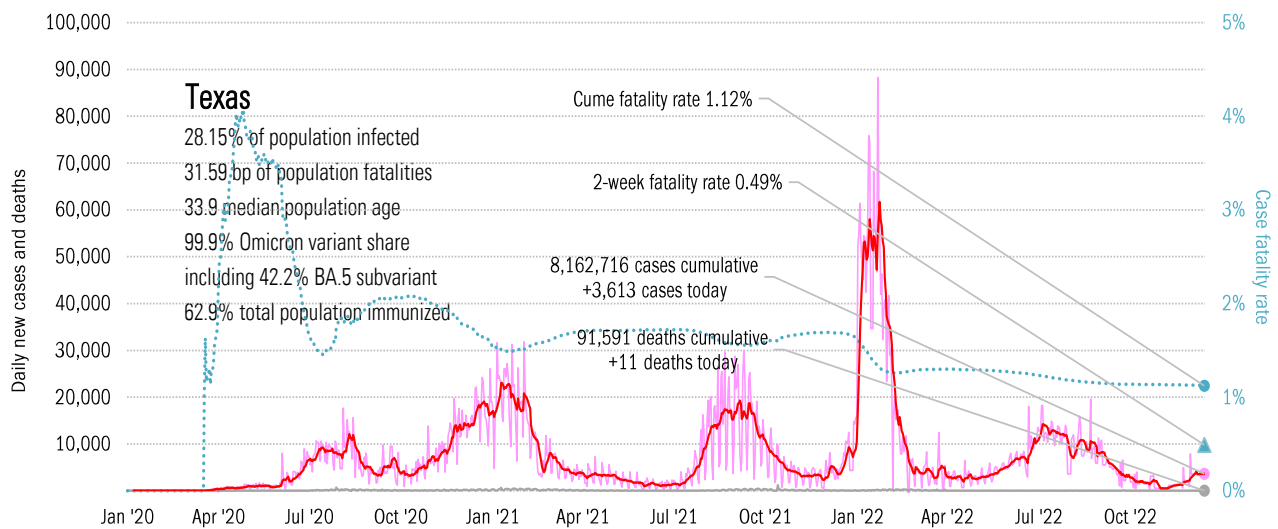
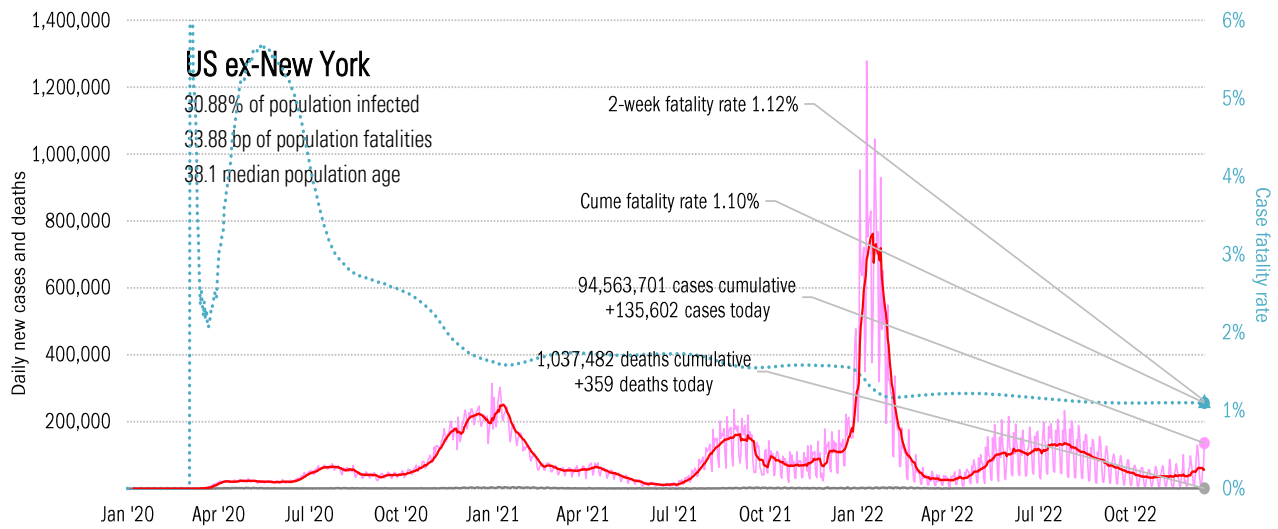
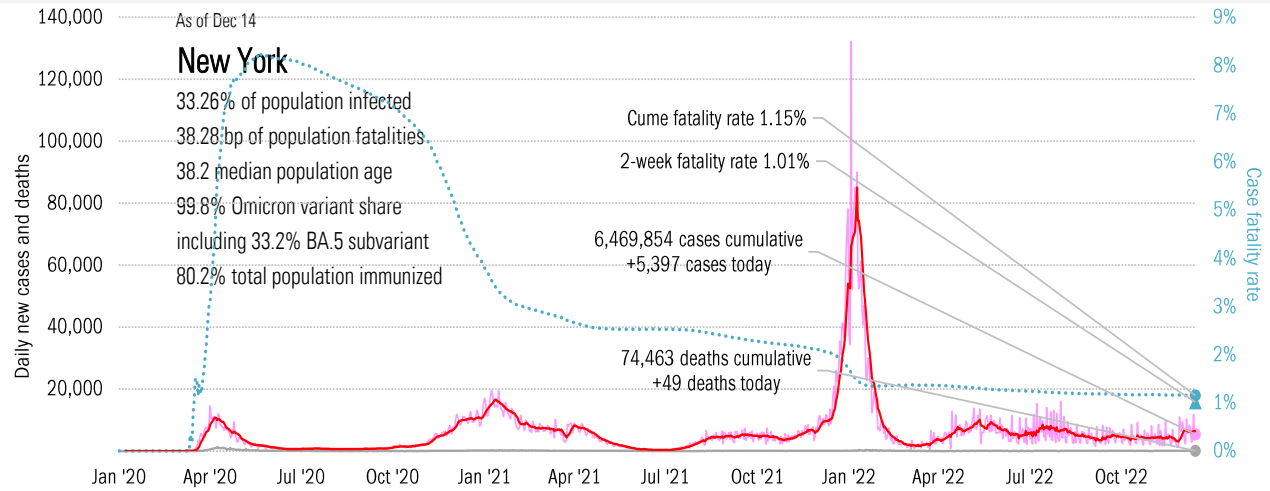
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

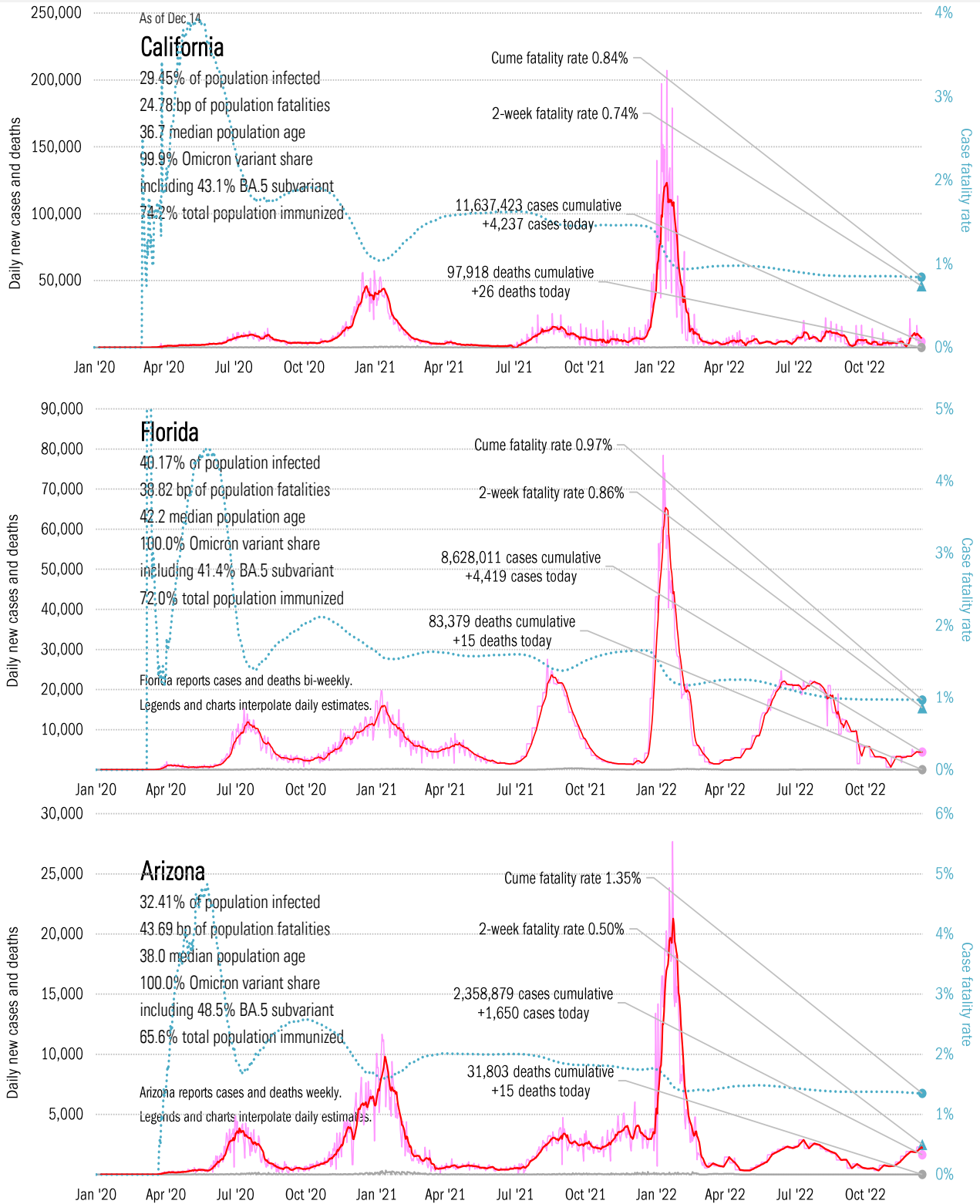
Cases: 7-day average and daily Deaths: Daily



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

The sun-belt hot-spot states

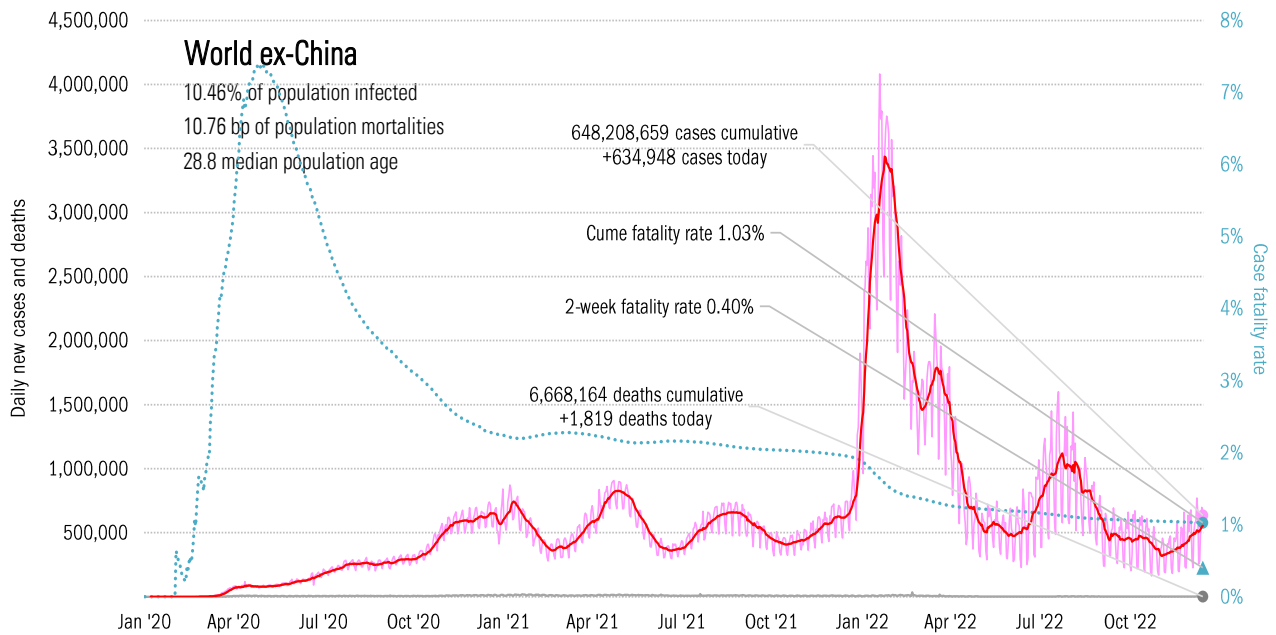
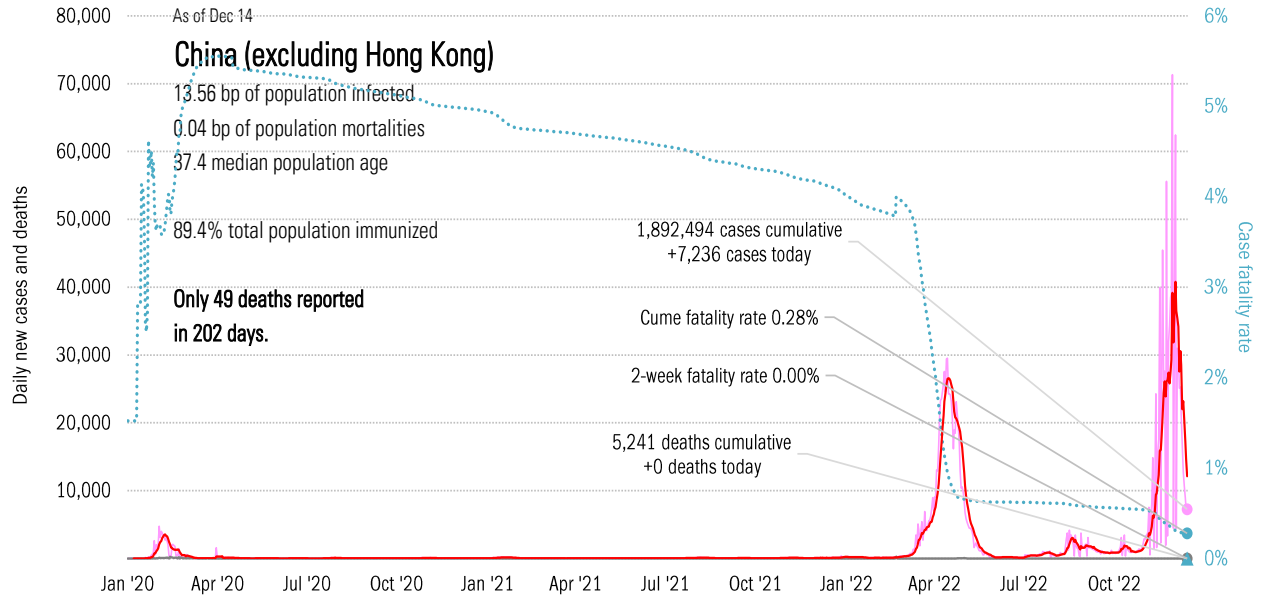
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

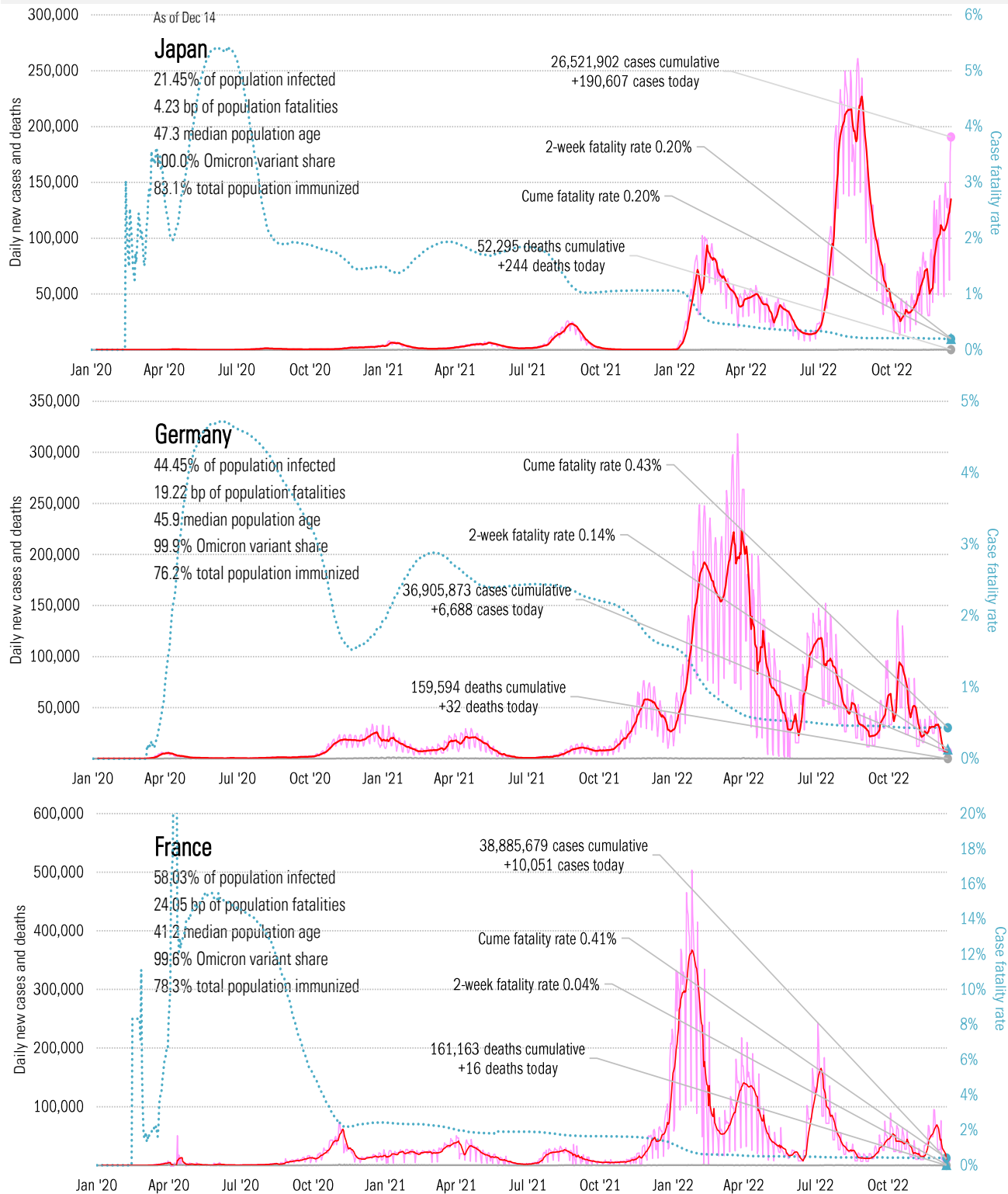
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

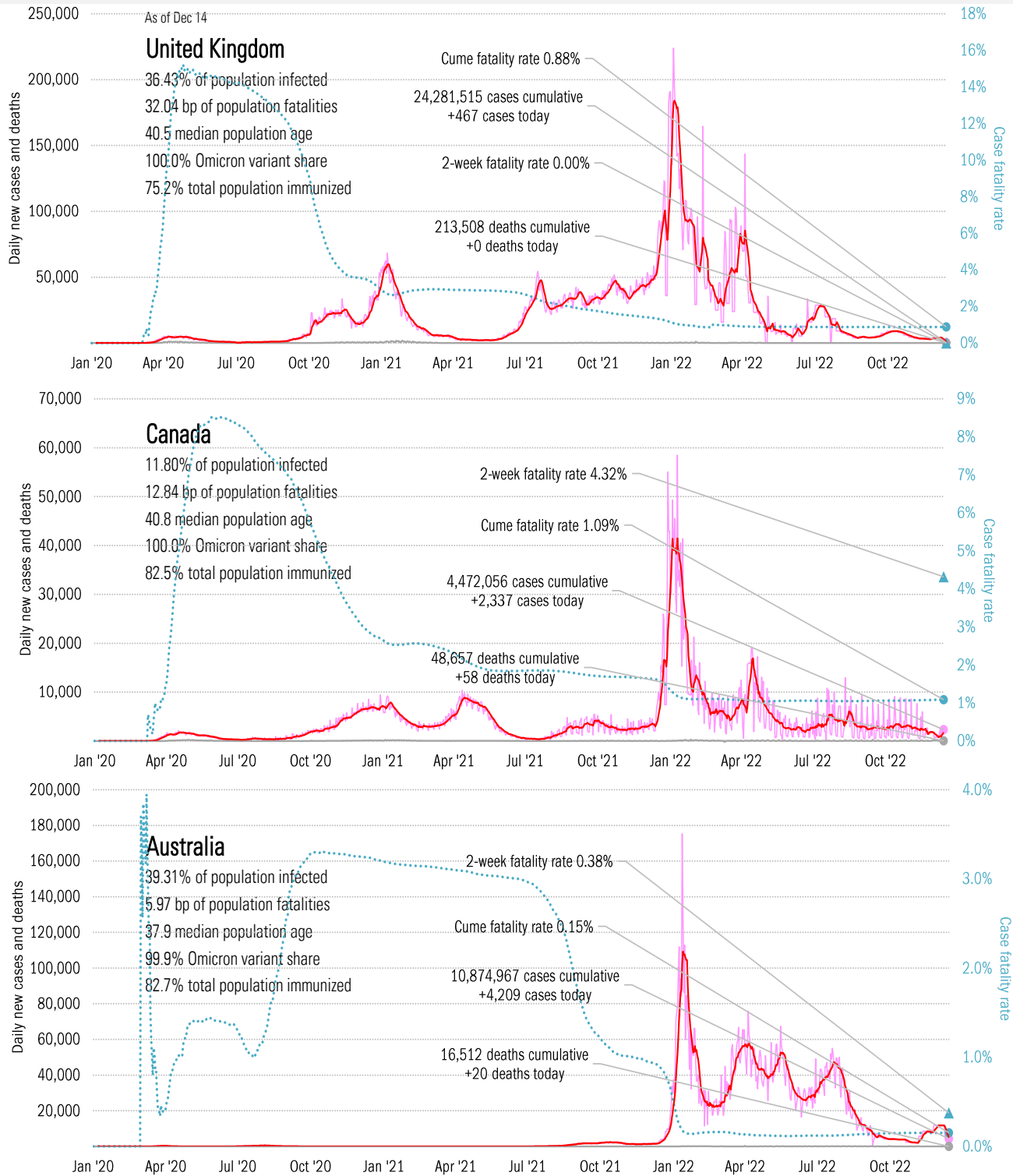
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

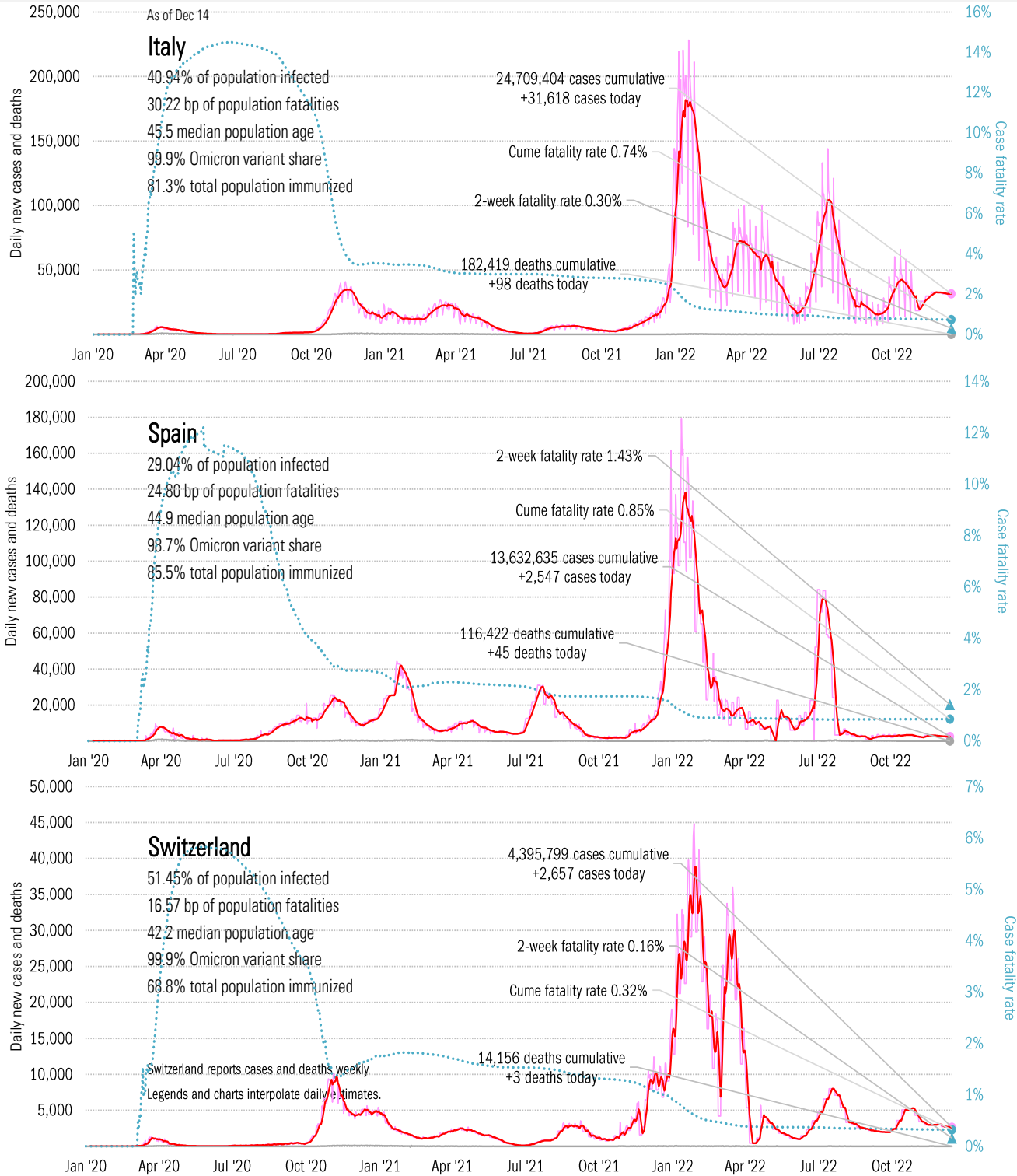
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

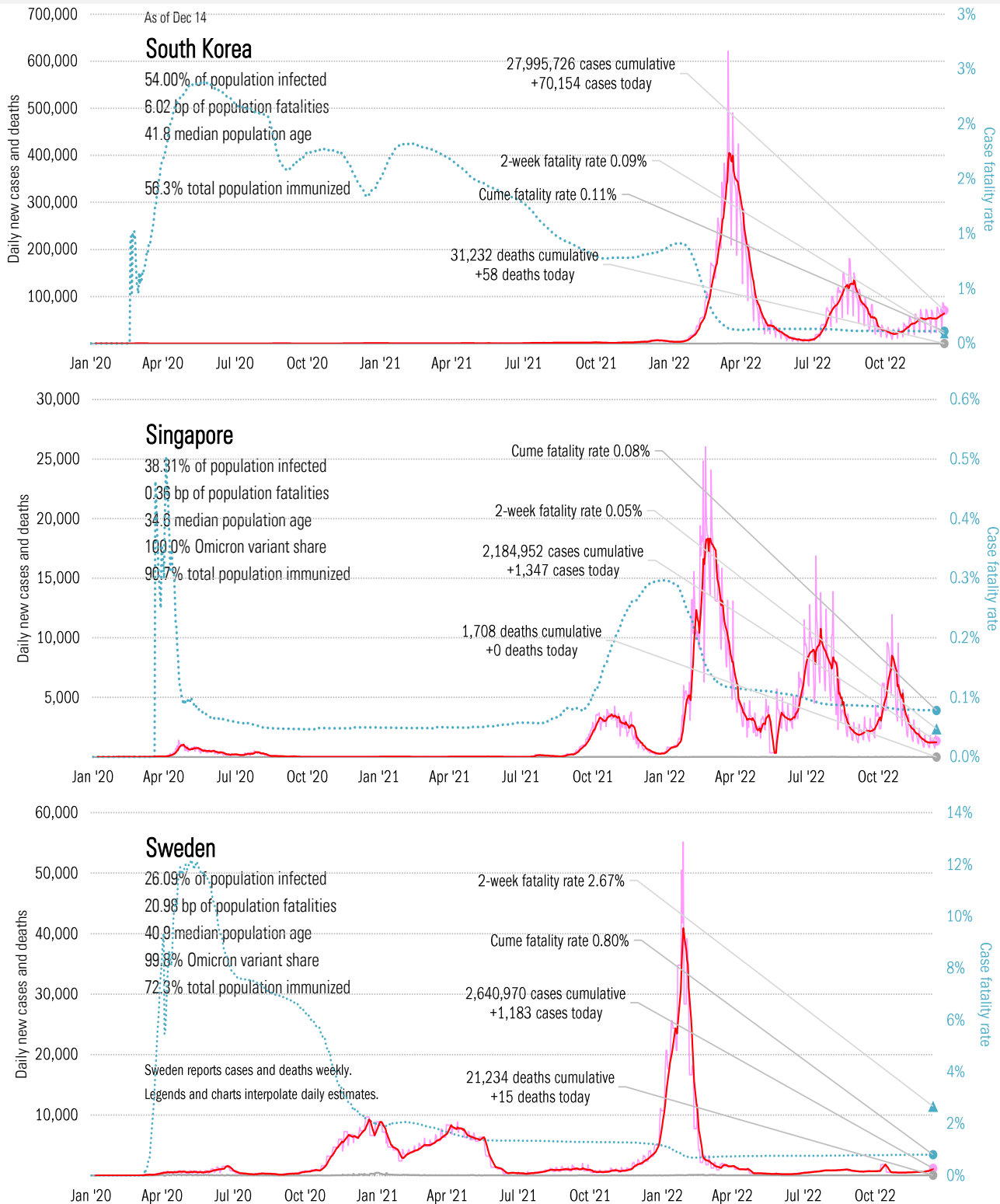
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

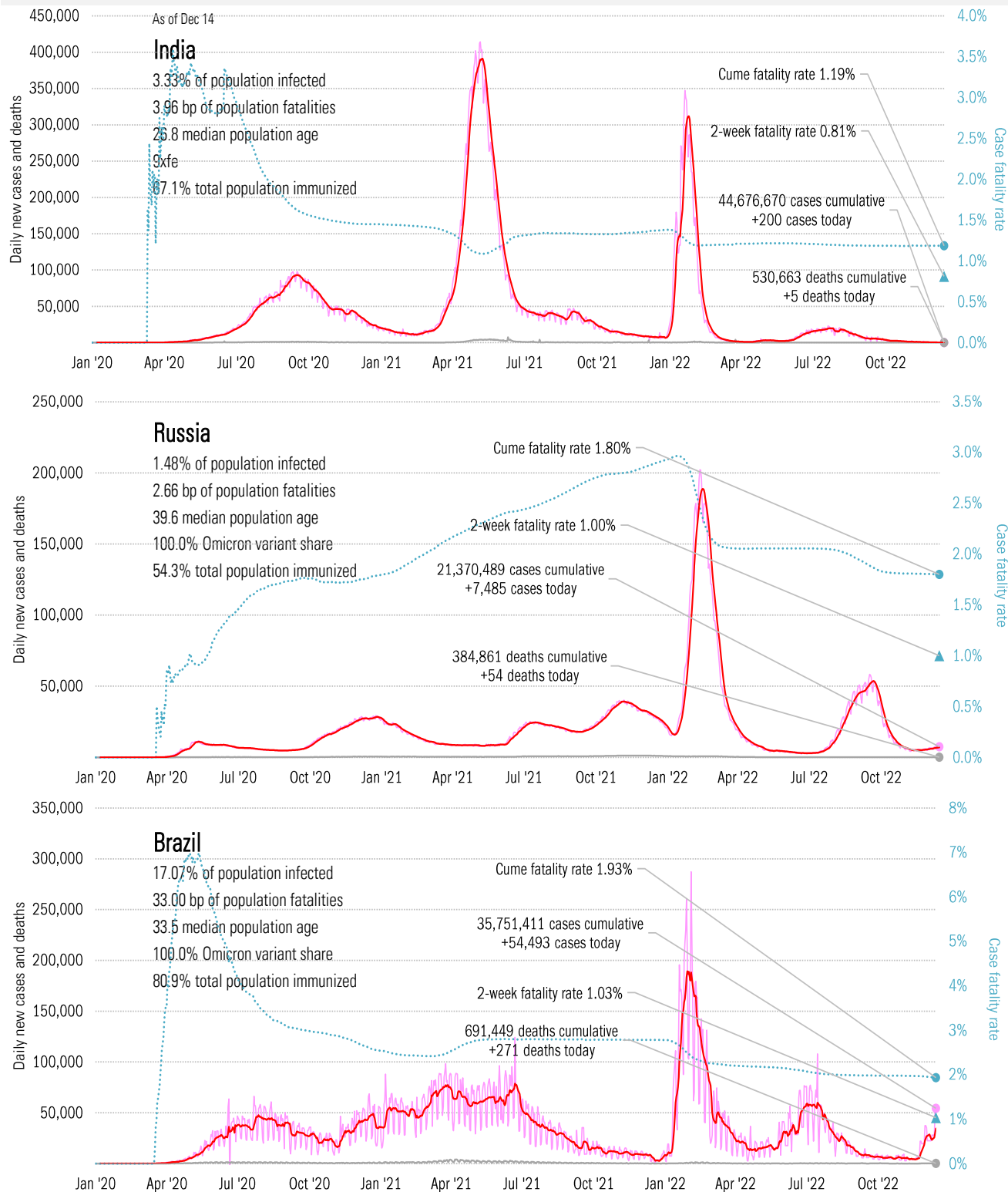
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

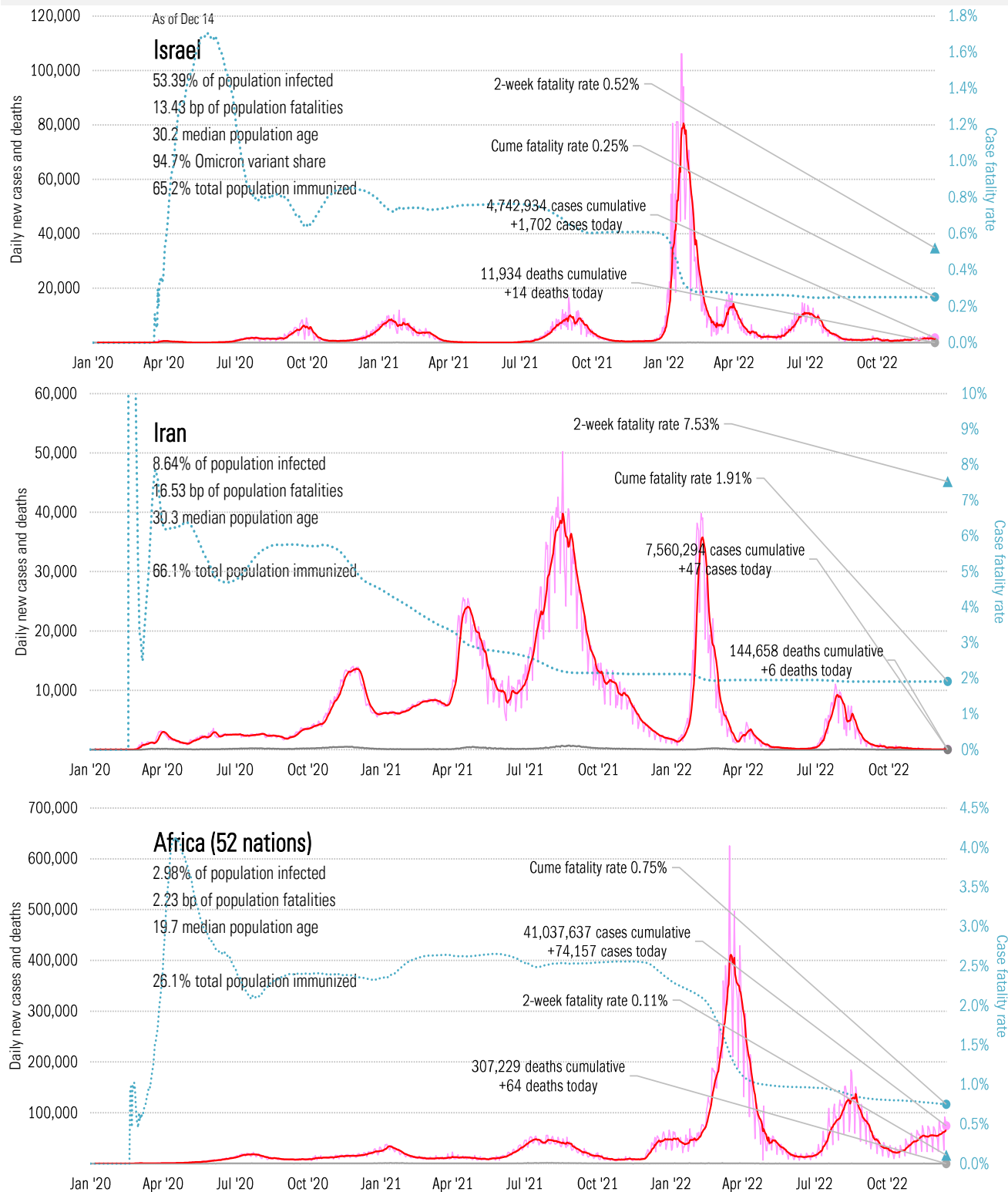
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

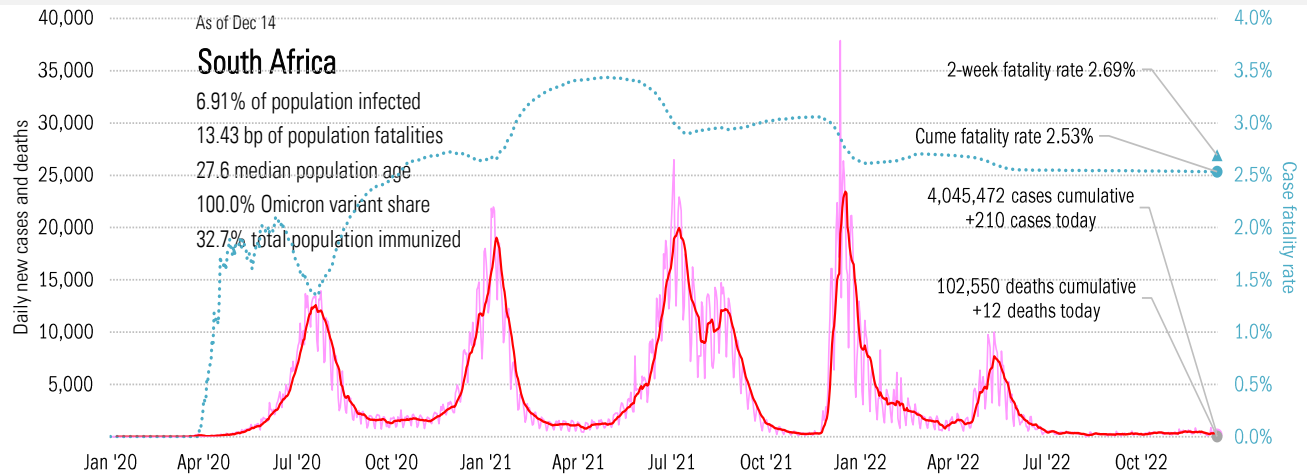
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), Trend Macro calculations