

Data Insights: Covid-2019 Monitor

Saturday, December 24, 2022

The global scorecard

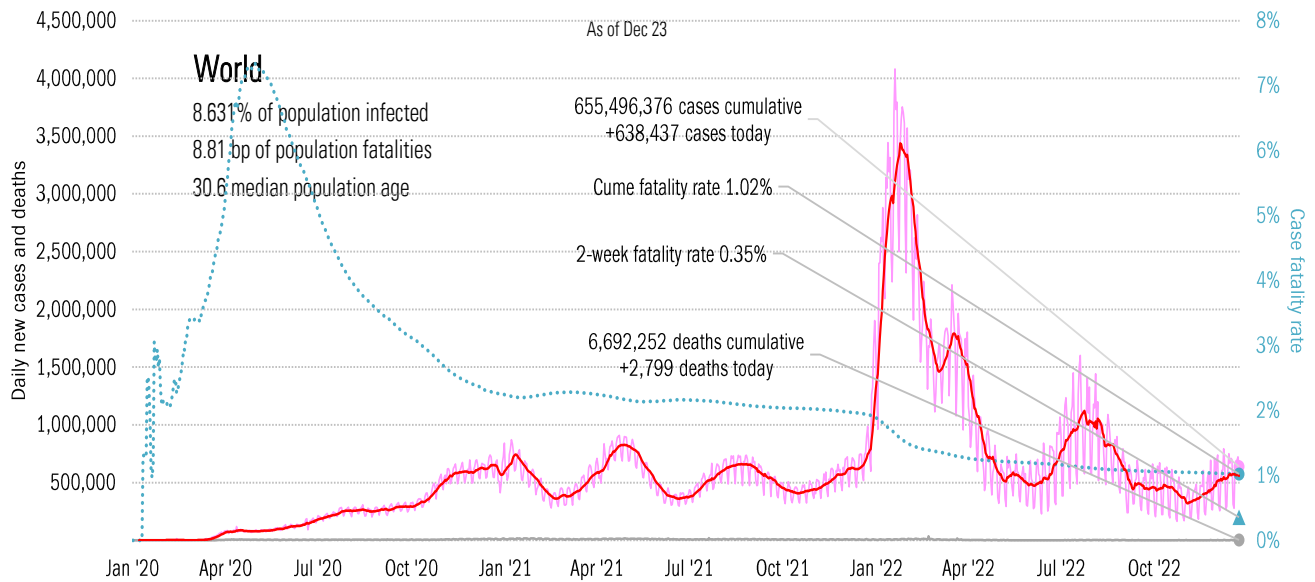
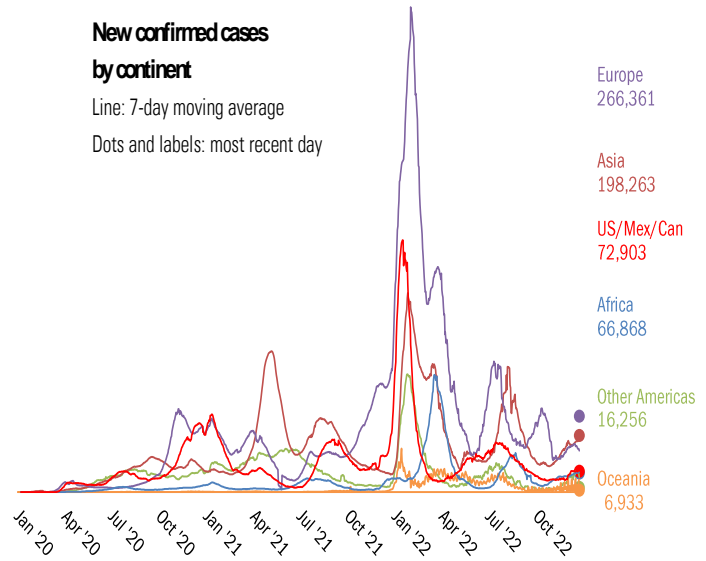
Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	173,336	United States	355
United States	67,222	Japan	315
Korea, South	66,049	Brazil	191
Brazil	48,404	France	158
France	43,844	Germany	157
Germany	34,092	Canada	146
Italy	19,653	Italy	114
Taiwan*	19,061	Ukraine	71
Russia	7,357	Korea, South	70
Australia	6,842	Russia	56
485,860		1,633	
World	638,437	World	2,799
Top ten	76%	Top ten	58%

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

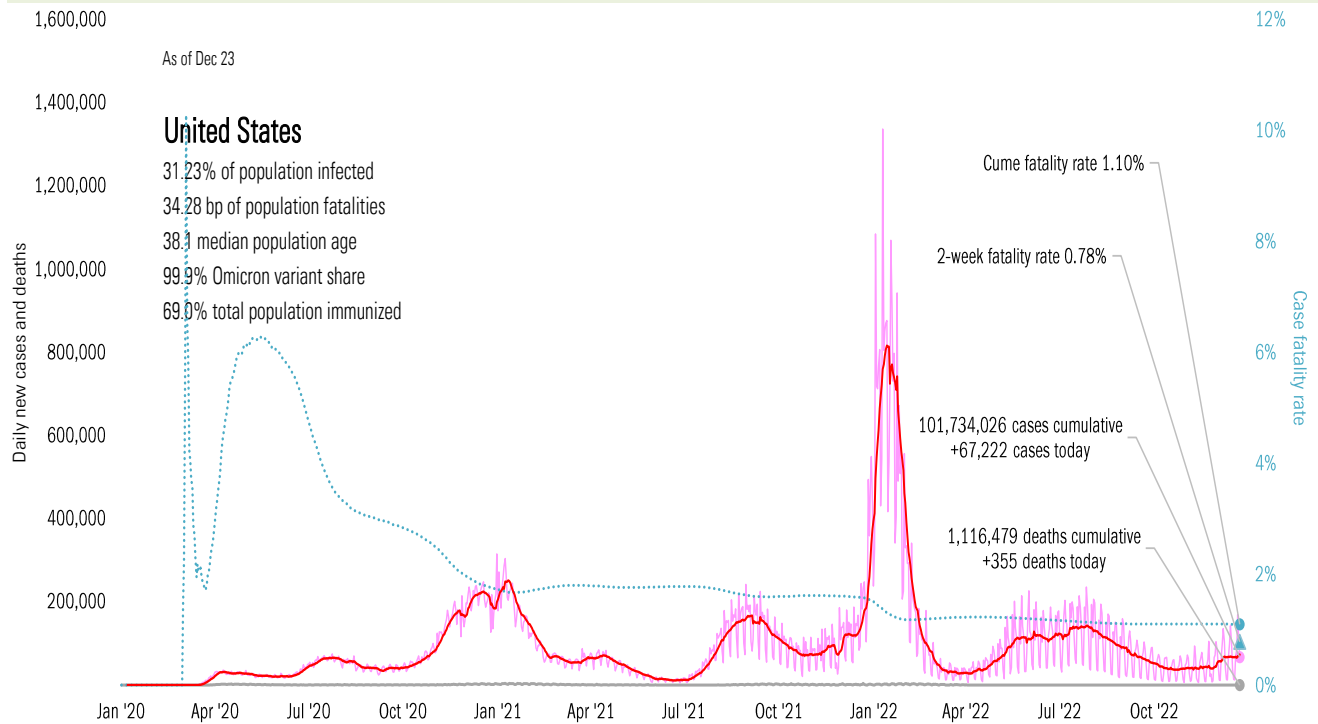
The ten worst US states

New cases			New deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
NY	7,747		NY	43	CA	767	CA	11,775,426	CA	98,385	TX	564,490	DE	91%	MA	87%					
FL	6,079		FL	32	GA	205	TX	8,195,135	TX	91,716	CA	536,280	RI	88%	TX	86%					
CA	4,947		CO	27	TX	419	FL	7,312,963	FL	83,606	FL	510,858	MA	87%	AK	86%					
IL	3,785		CA	24	PA	257	NY	6,532,655	NY	74,845	NY	331,831	WA	86%	AL	85%					
LA	3,634		IL	24	TN	116	IL	3,953,928	PA	48,798	CH	233,721	NH	85%	DC	85%					
NJ	3,298		MI	21	OK	80	PA	3,403,177	GA	41,361	GA	233,078	MD	85%	NC	85%					
VA	2,650		PA	19	WA	90	NC	3,316,814	CH	40,840	PA	218,749	AK	84%	NM	85%					
CH	2,556		NJ	17	WI	126	CH	3,294,521	MI	40,657	IL	202,141	MN	83%	NH	84%					
NC	2,382		GA	17	IN	154	MI	2,977,727	IL	40,610	MI	173,856	OR	83%	DE	83%					
MI	2,046		MA	16	MA	166	GA	2,974,619	NJ	35,425	NJ	151,543	NV	83%	VT	83%					
39,124			240			2,380			53,736,965			596,243			3,156,547						
All states	67,222		355		5,924		All states	101,734,026	1,116,479		5,731,526		All states	70%		67%					
Top ten	58%		68%		40%		Top ten	54%	55%		55%		Median	78%		77%					

Some states not reporting

Five most improved US states

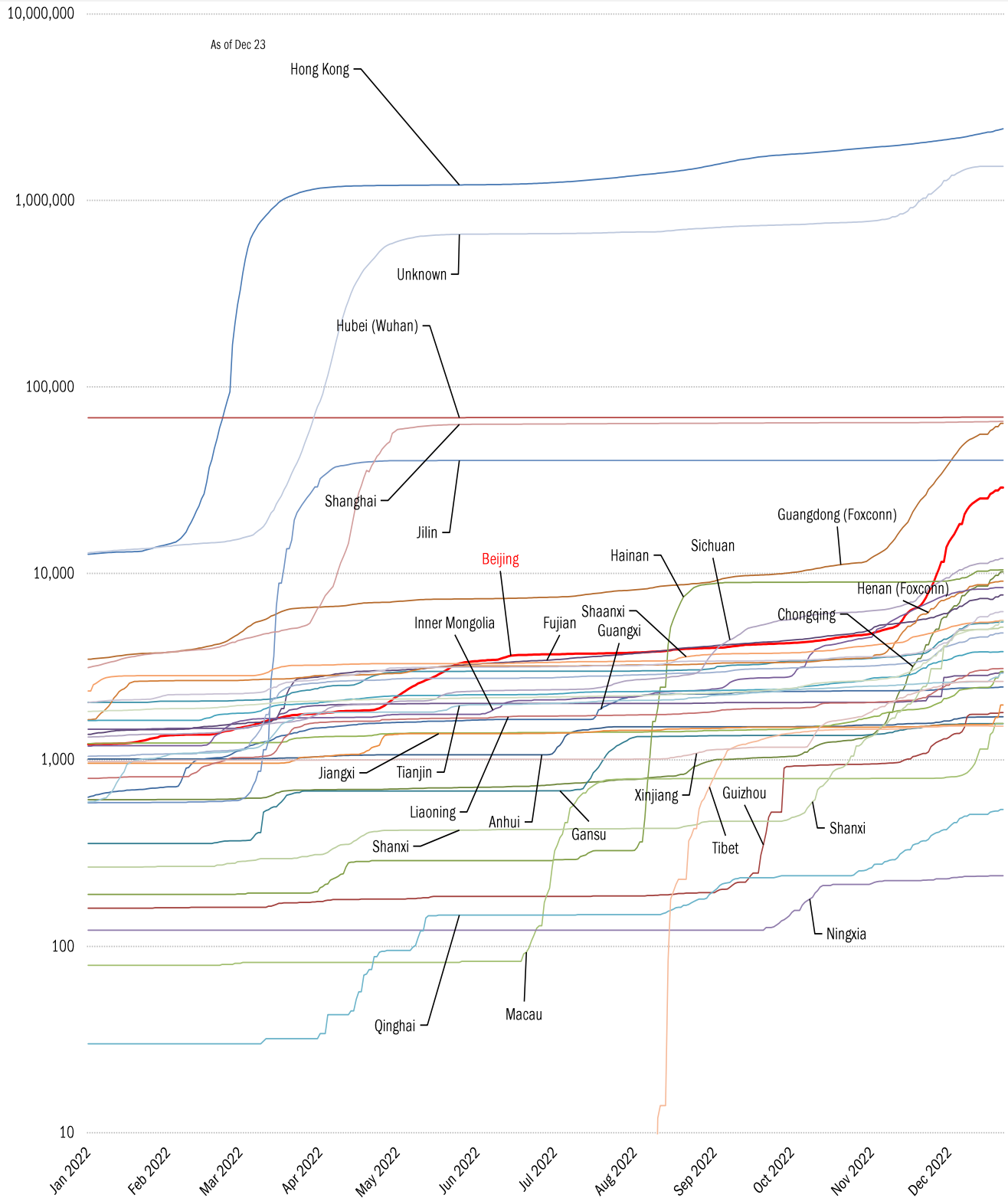
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
NY	-602	NY	-15	FL	-116
NJ	-594	NJ	-4	IL	-102
WI	-369	MD	-3	NY	-101
TX	-312	UT	-2	MI	-91
CO	-260	IA	-2	NJ	-63



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"

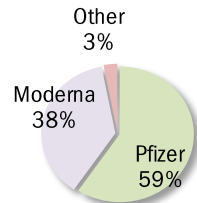


Source: [Johns Hopkins](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered Doses	Cumulative			Today	Immunity	Full	Partial	
	678,686,171			+0.129 million	US	69.0%	80.8%	
				Of which boosters: +0.112 million	UK	75.2%	79.7%	
	One dose	% Pop	Immune	% pop	New immune today	France	78.3%	80.6%
Total population	276,532,813	83%	235,793,758	71%	+0.012 million	Spain	85.5%	86.9%
Age 12 to 17	18,402,383	73%	15,755,703	62%	+0.001 million	Germany	76.2%	77.8%
Age 18 to 64	183,917,291	90%	156,388,919	77%	+0.007 million	Italy	81.3%	86.2%
Age 65 and over	60,924,924	100%	53,362,544	97%	+0.003 million	Australia	82.7%	84.9%
						Israel	65.2%	71.1%
						Canada	82.5%	90.0%
						Japan	83.2%	84.3%
						Africa	26.2%	32.2%
						India	67.1%	72.5%
						Brazil	81.2%	87.6%
						China	89.4%	91.7%



State	Best
At least partial immunity as % population	Middle
Full immunity as % population	Worst

AK	72.7%
	64.9%

"Immunity" = two doses

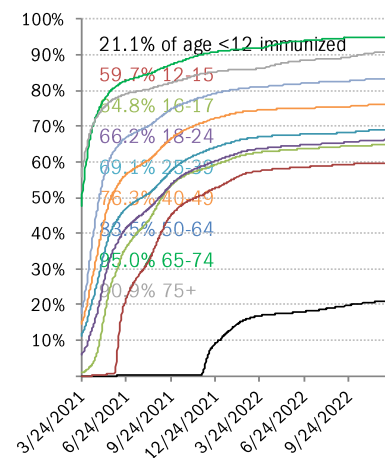
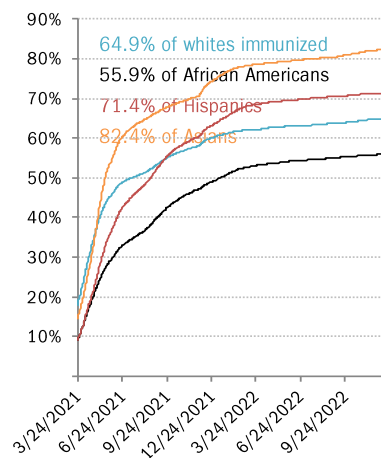
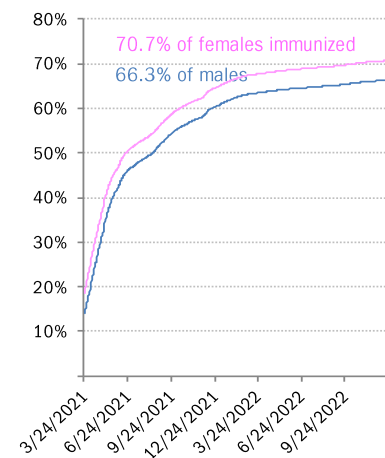
WI	74.8%
	67.9%

As of Dec 23

ME	95.0%
	83.0%

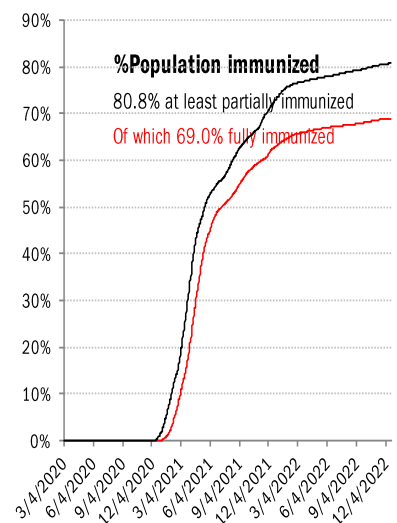
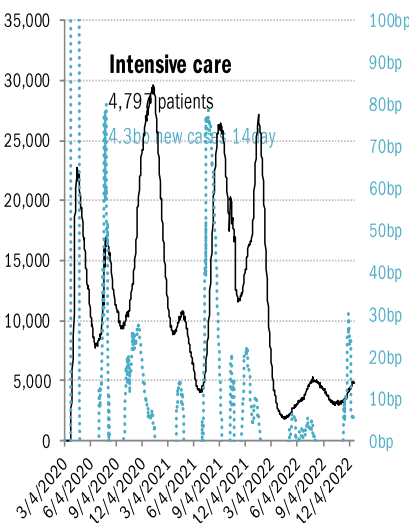
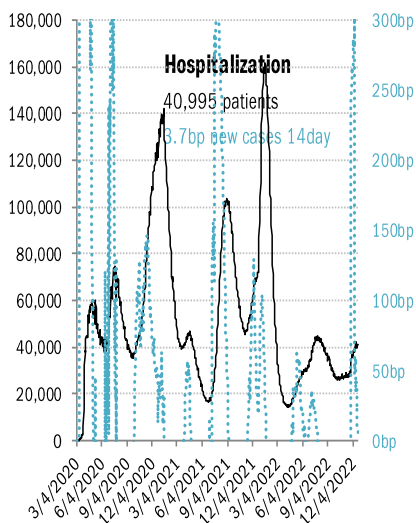
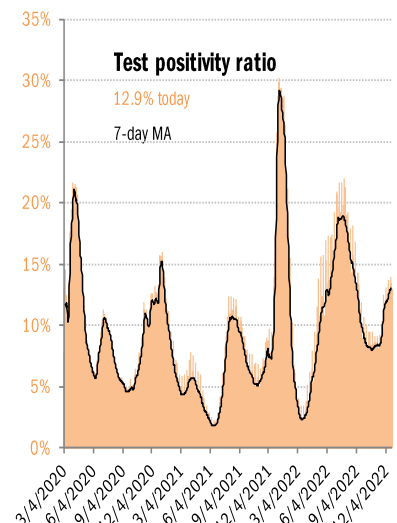
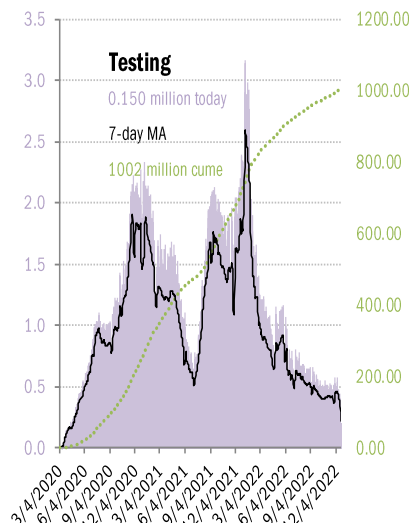
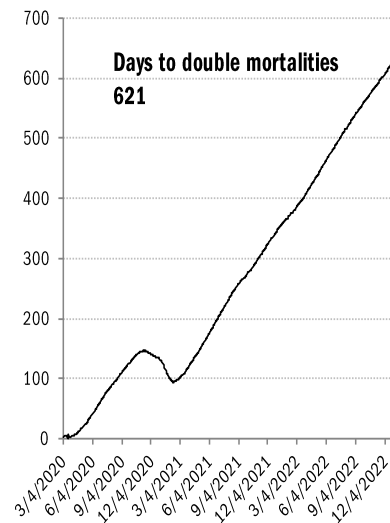
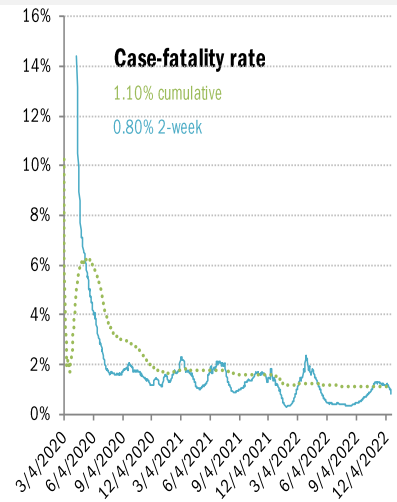
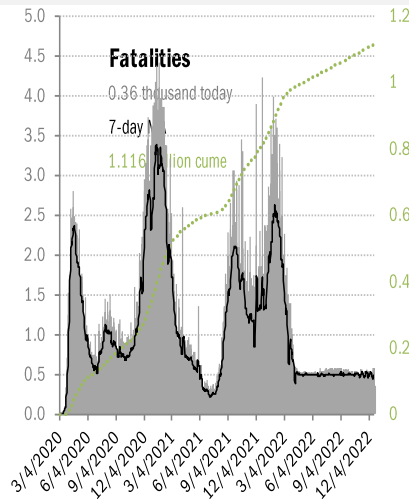
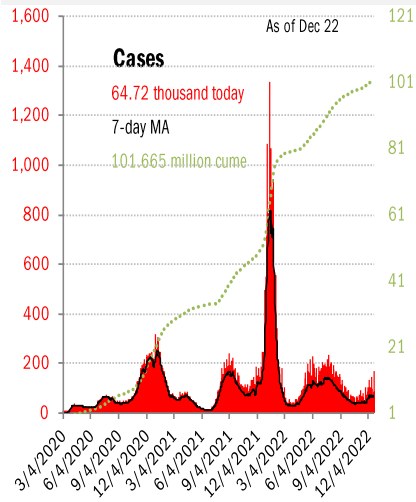
WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
84.8%	63.7%	68.0%	69.0%	78.4%	78.9%	69.2%	94.0%	95.0%	87.5%	
75.7%	56.3%	58.9%	58.4%	71.8%	71.0%	62.1%	80.4%	85.2%	71.5%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.2%	77.2%	60.7%	83.3%	70.4%	64.1%	65.5%	90.1%	94.2%	95.0%	
72.1%	63.5%	52.9%	65.9%	64.1%	57.6%	60.2%	72.9%	78.8%	83.7%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
84.2%	74.9%	83.3%	73.1%	69.1%	68.6%	67.3%	90.5%	91.2%	95.0%	95.0%
74.3%	66.4%	73.2%	66.0%	58.8%	59.4%	59.5%	76.3%	79.3%	82.7%	87.3%
AZ	NM	KS	AR	TN	NC	SC	DC	DE		
77.0%	93.7%	75.8%	69.6%	64.2%	91.5%	70.7%	95.0%	87.7%		
65.8%	74.8%	65.0%	56.7%	56.1%	66.7%	59.7%	85.2%	72.9%		
OK	LA	MS	AL	GA						
74.3%	62.6%	61.5%	64.8%	68.0%						
60.2%	54.9%	53.5%	53.0%	57.0%						
TX										
76.0%										
63.0%										
HI							FL		PR	
91.0%							82.1%		95.0%	
81.2%							69.2%		86.7%	

The demographics of US vaccination

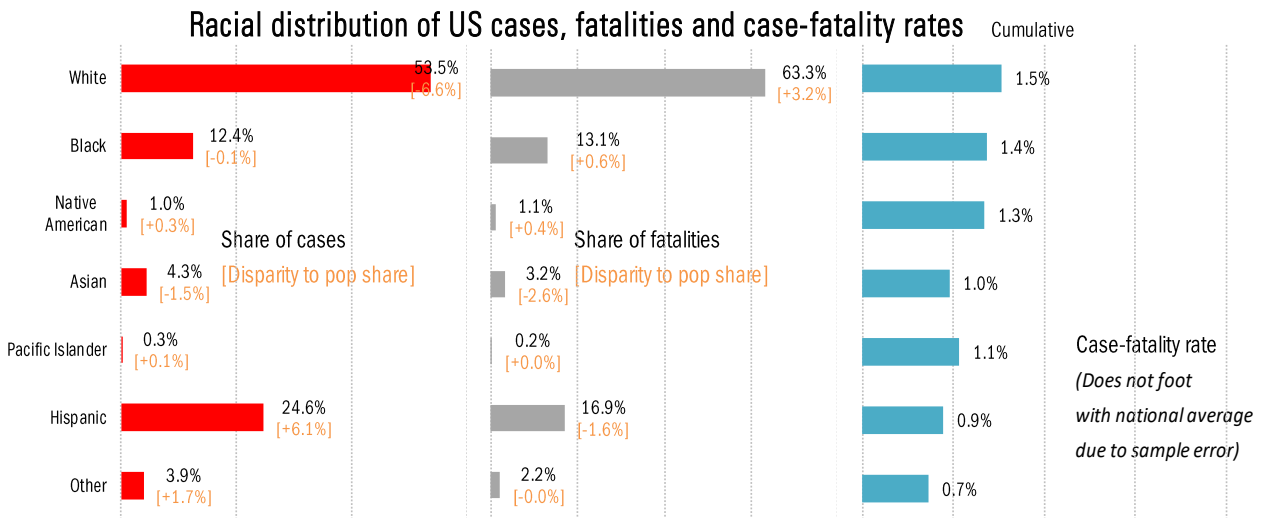
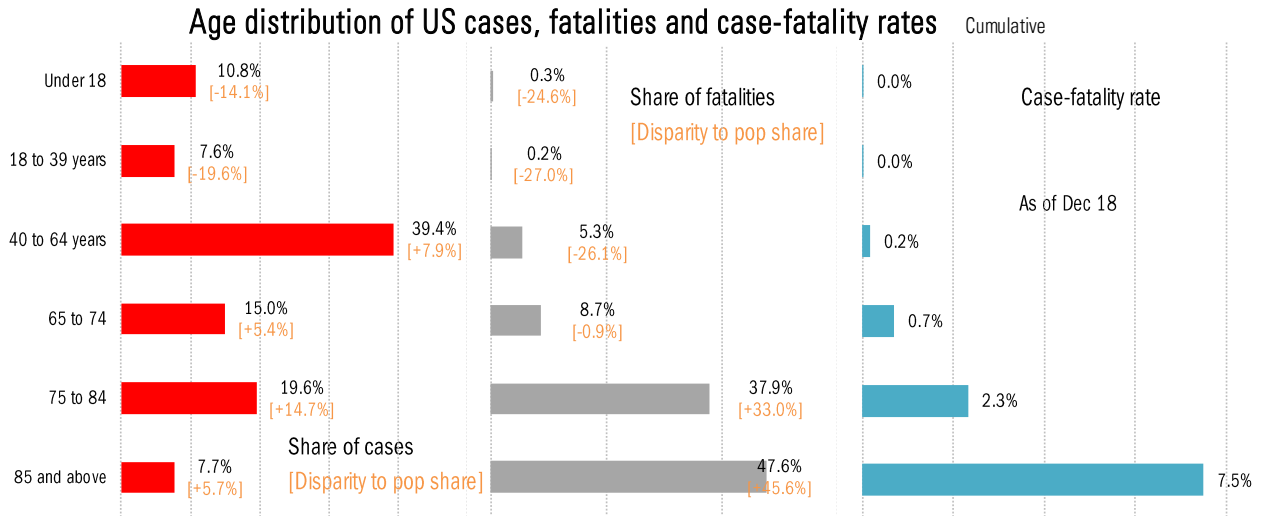


Source: CDC, CDC, Our World in Data, TrendMacro calculations

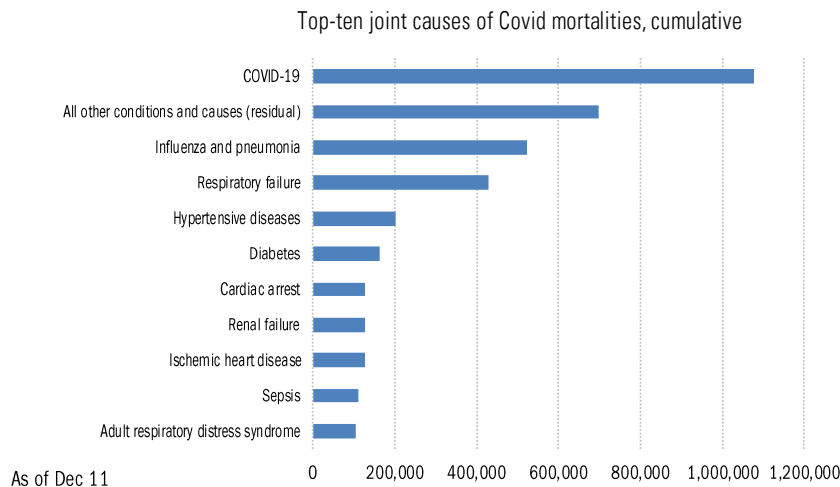
US deep-dive



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



Comorbidities



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

[Why mask mandates aren't coming back even though covid is](#)

Fenit Nirappil, Henry Rogers, Vanessa Kjeldsen and Samantha Aguilar
Washington Post
December 23, 2022

[Blinken Raises China's Covid 'Transparency' With Wang Yi](#)

Iain Marlow
Bloomberg
December 22, 2022

[Fears of a 'dark COVID winter' in rural China grow as the holiday rush begins](#)

Emily Feng
NPR
December 23, 2022

[China Estimates Covid Surge Is Infecting 37 Million People a Day](#)

Bloomberg
December 23, 2022

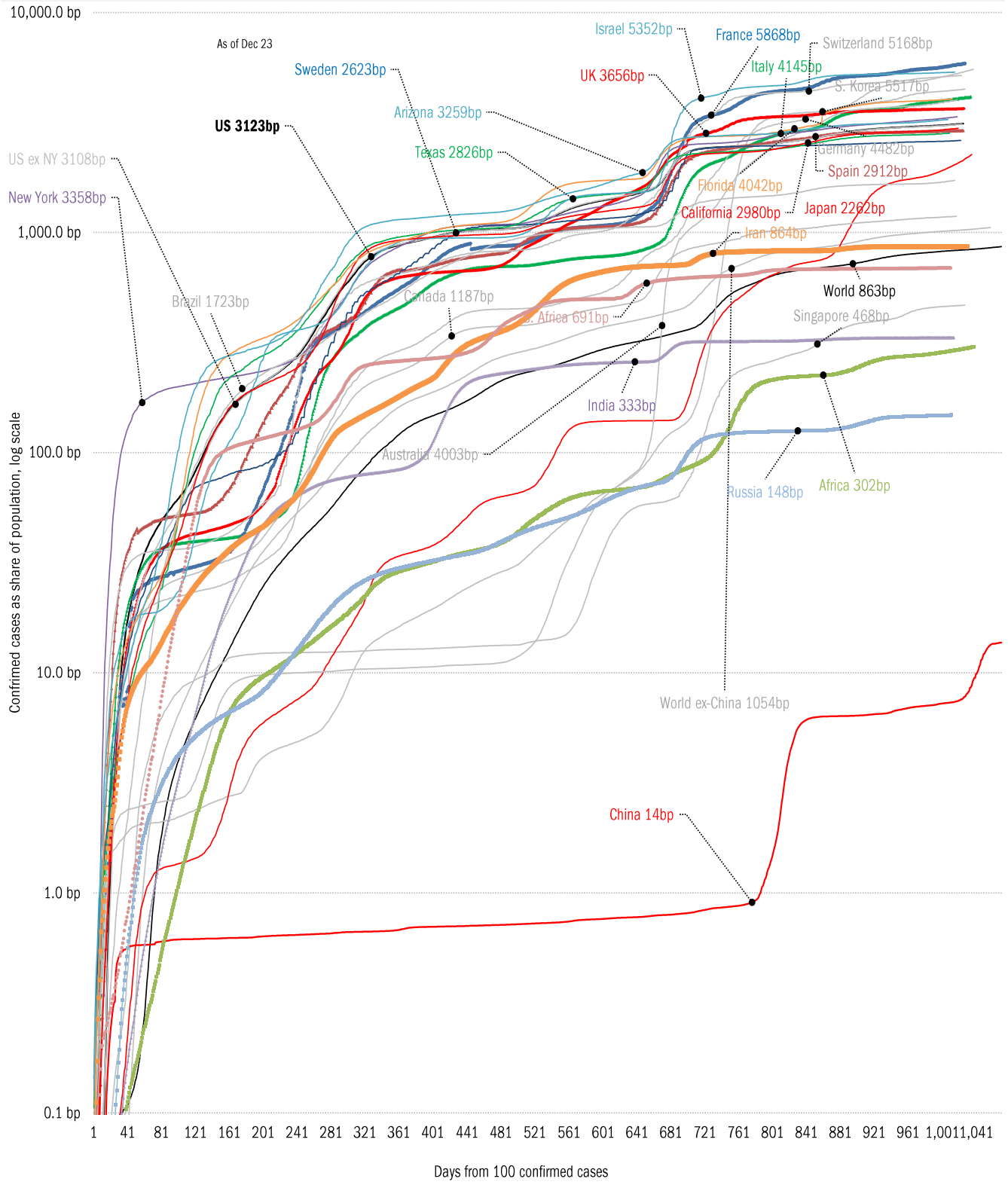
Meme of the Day



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

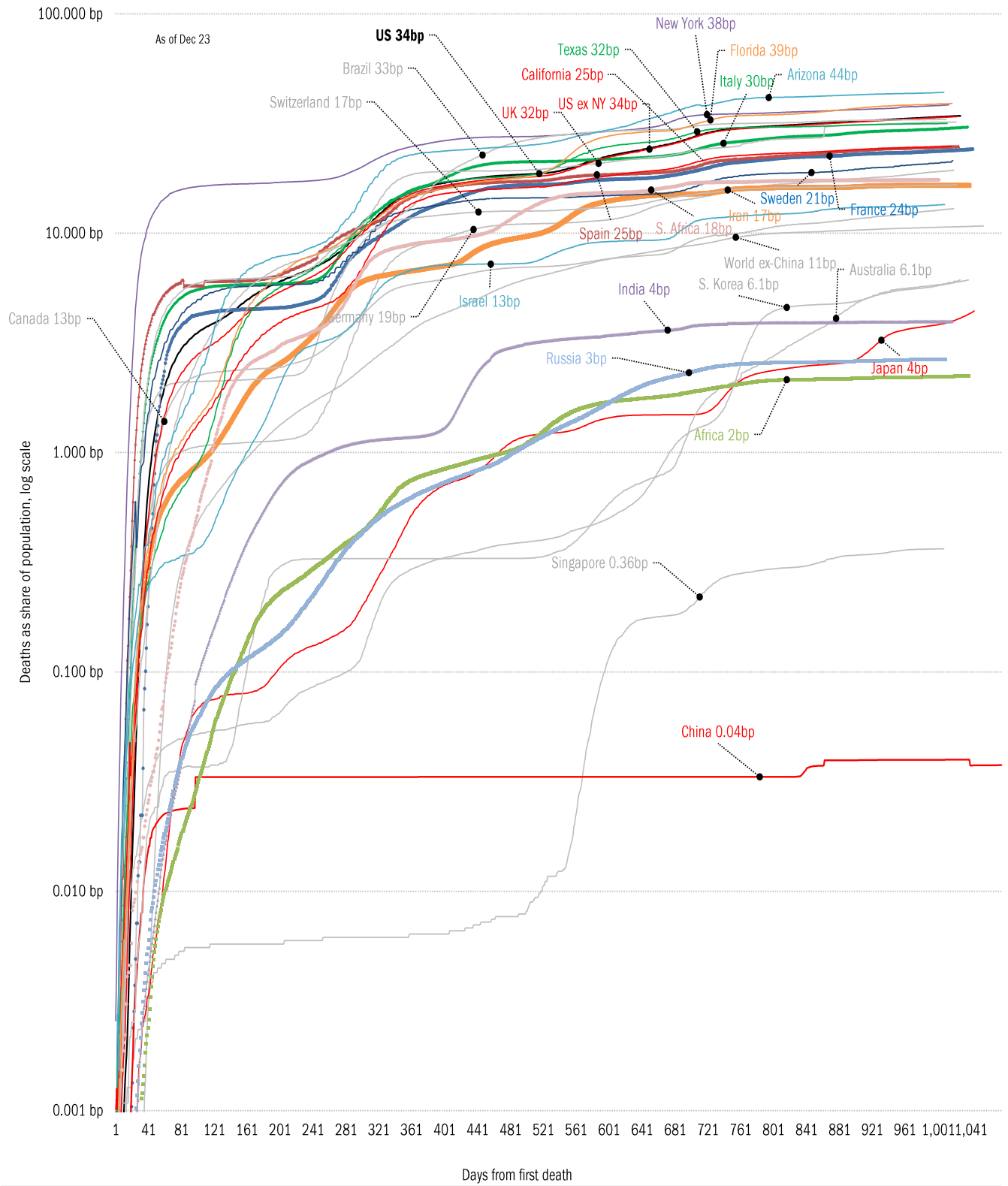
The global coronavirus case accelerometer... tracking the world's infection curves

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 population deceased from day of first fatality, log scale

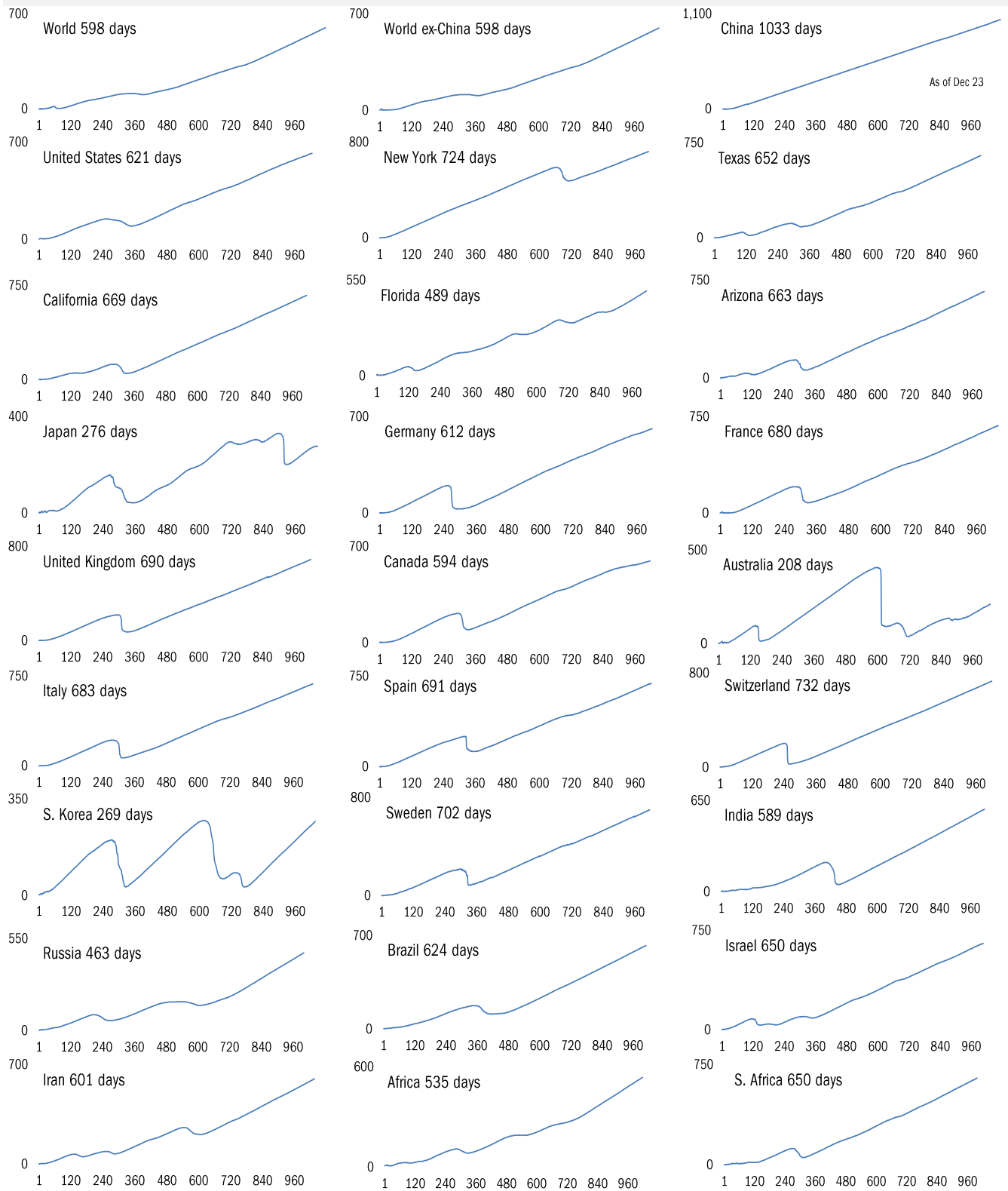


Source: [Johns Hopkins](#), TrendMacro calculations

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

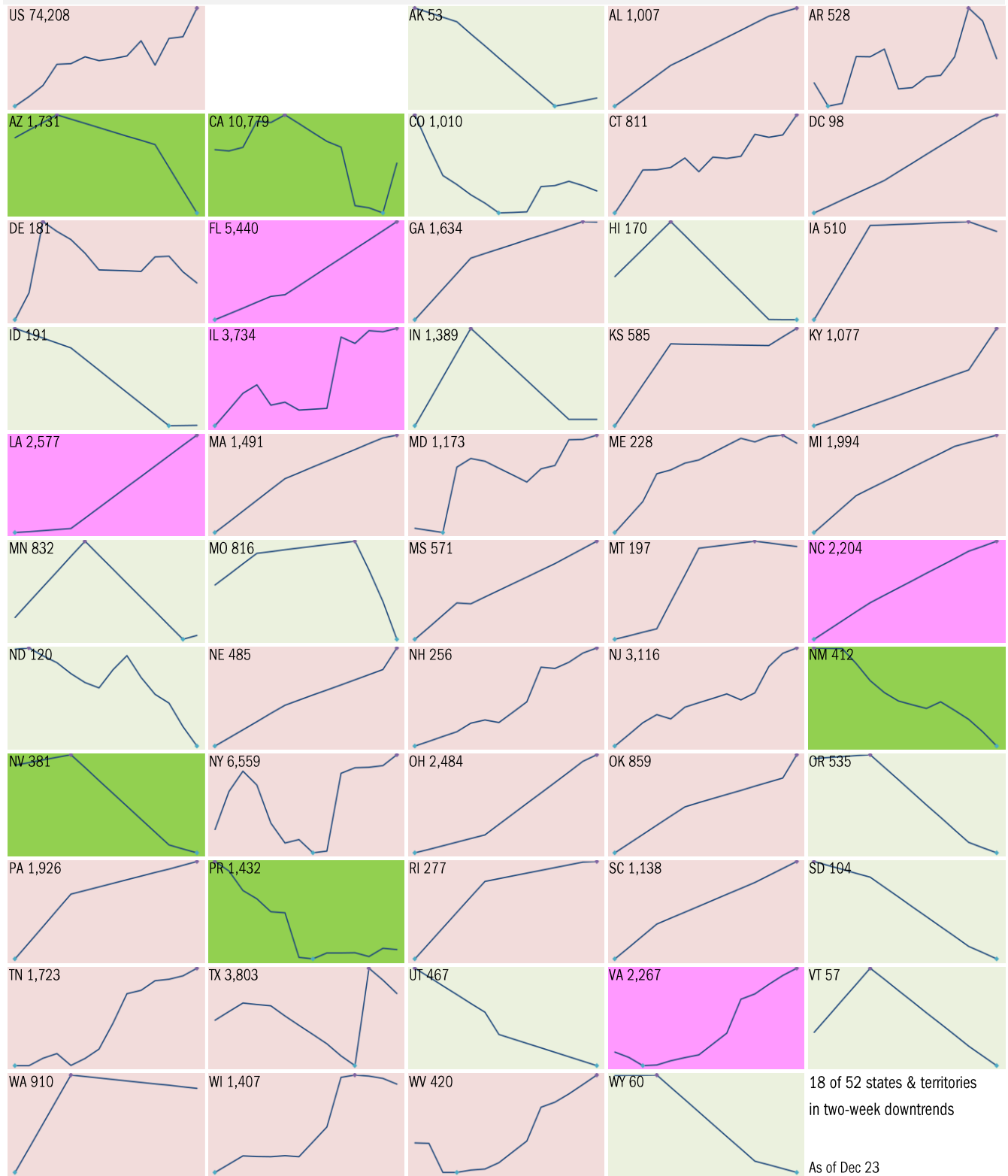


Source: [Johns Hopkins](#), TrendMacro calculations

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

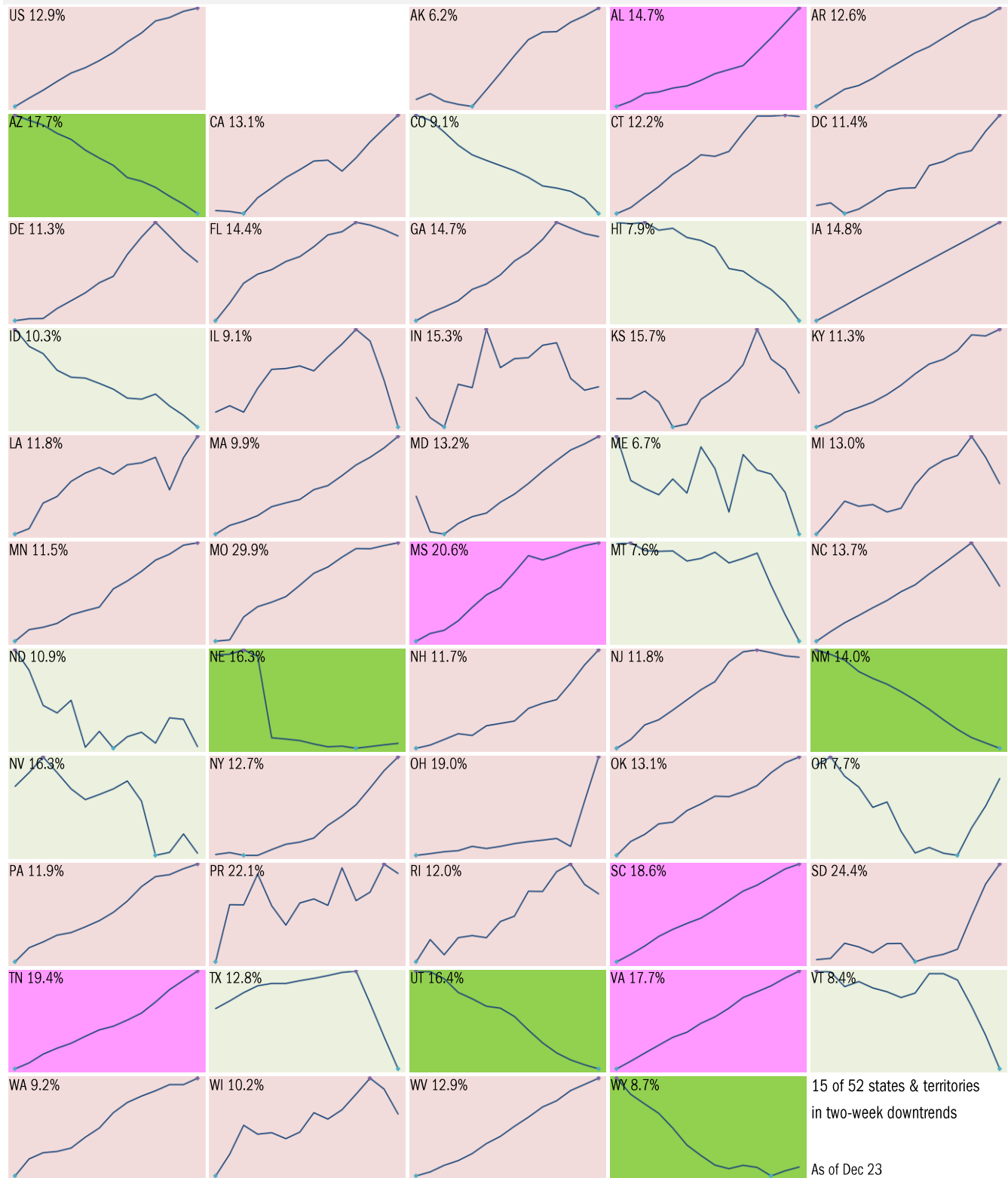


Source: [Johns Hopkins](#), TrendMacro calculations

14-day trajectory in test-positivity ratio

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

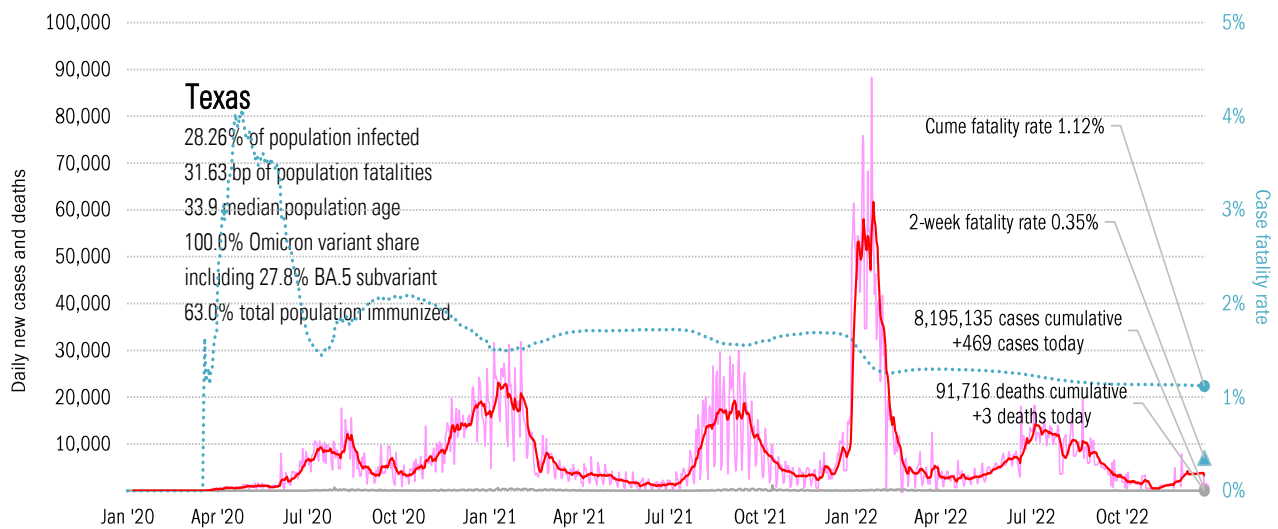
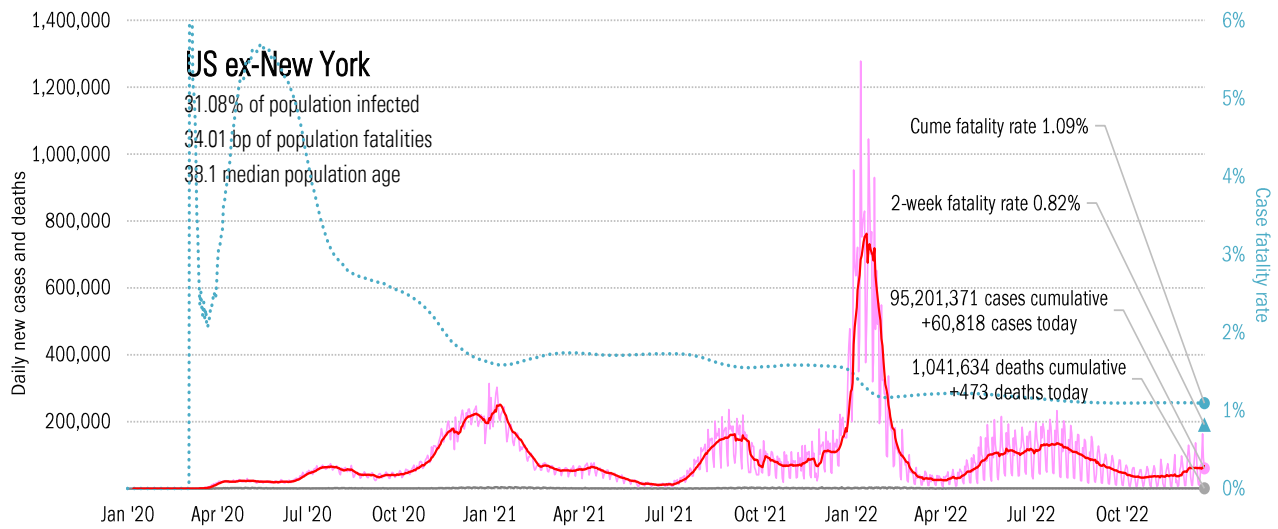
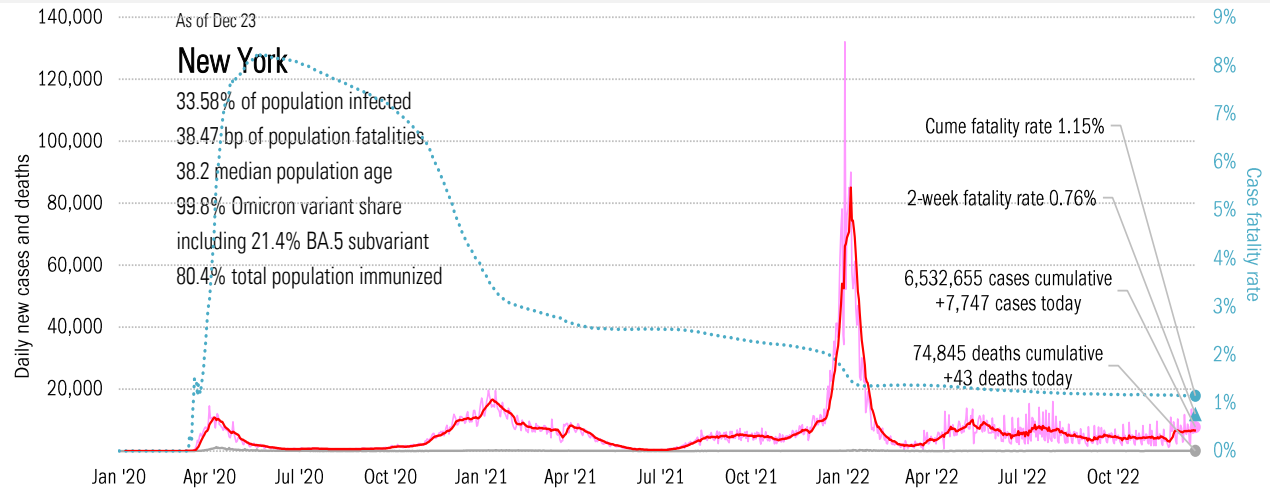
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

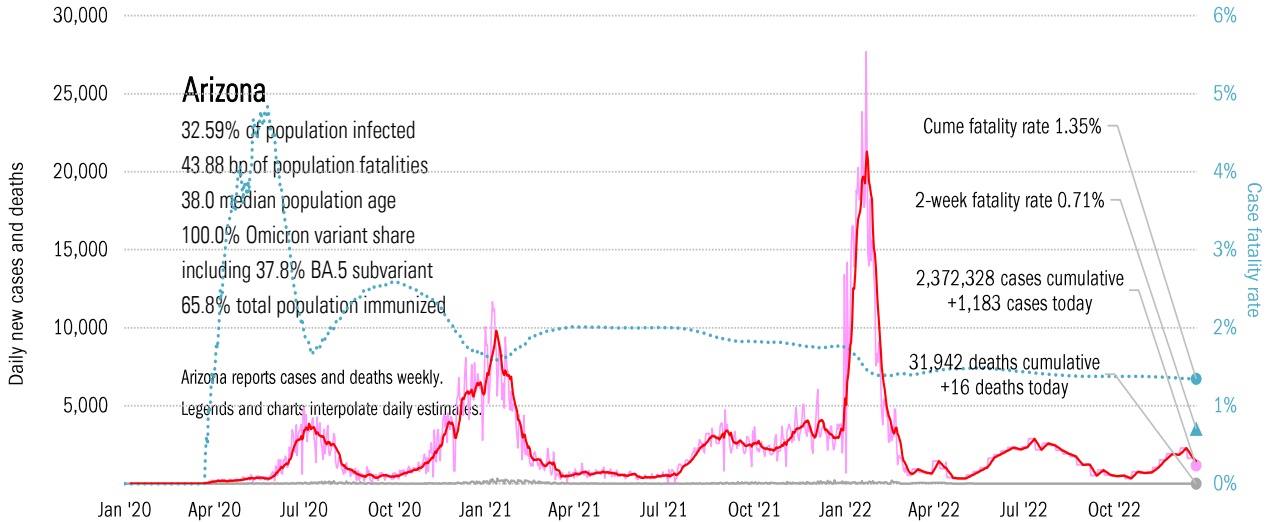
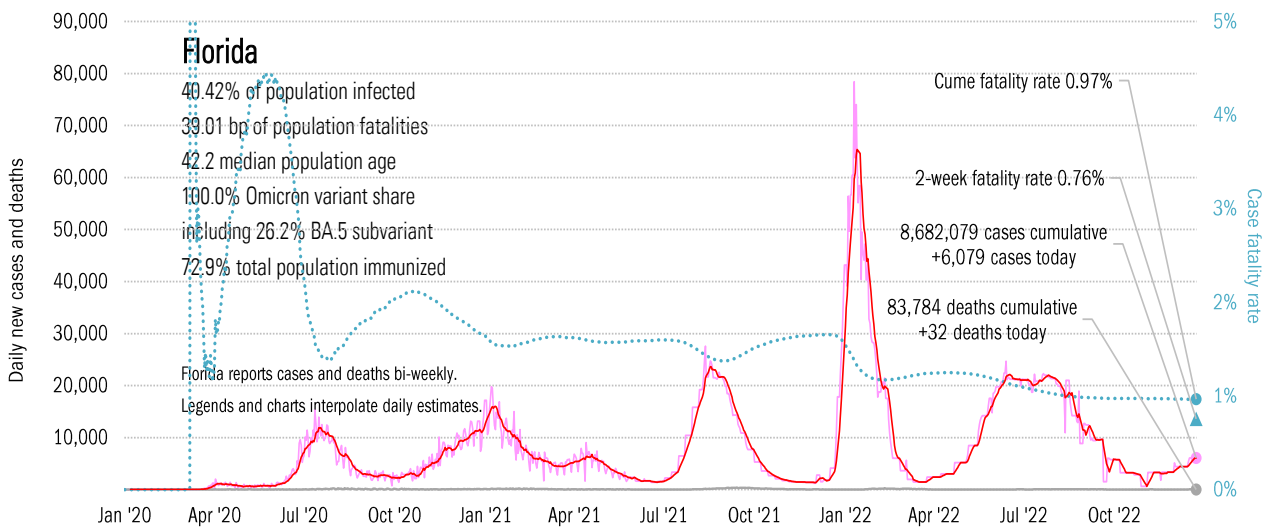
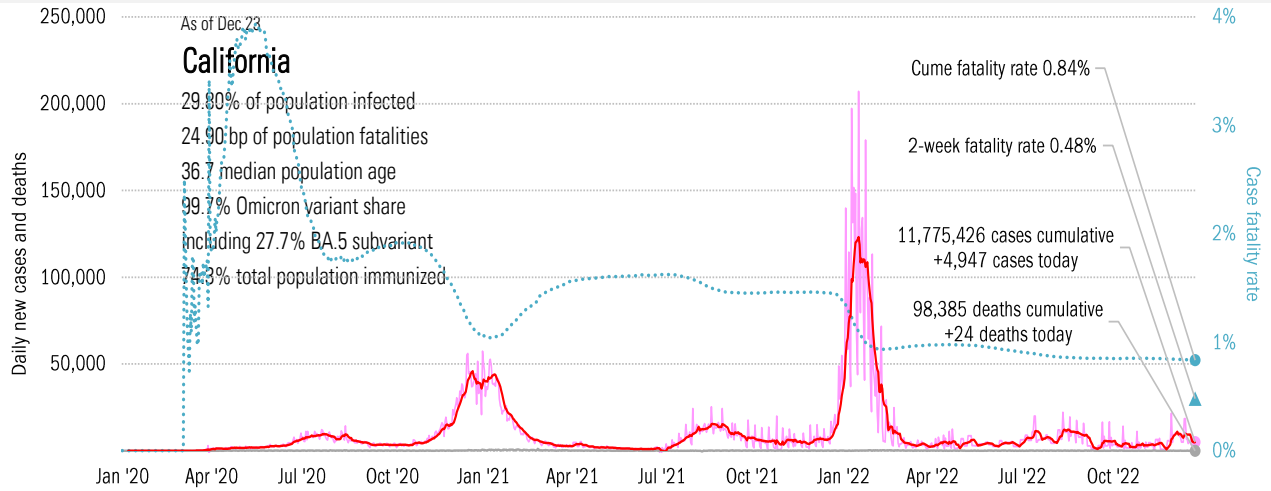
Cases: 7-day average and daily Deaths: Daily



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

The sun-belt hot-spot states

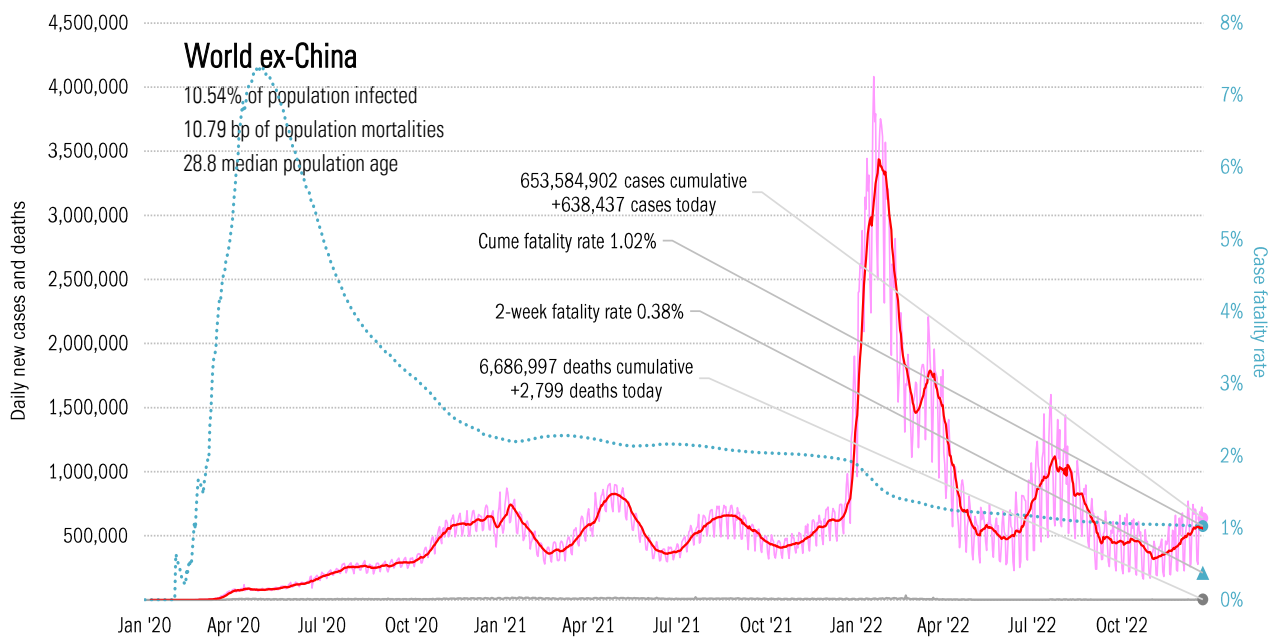
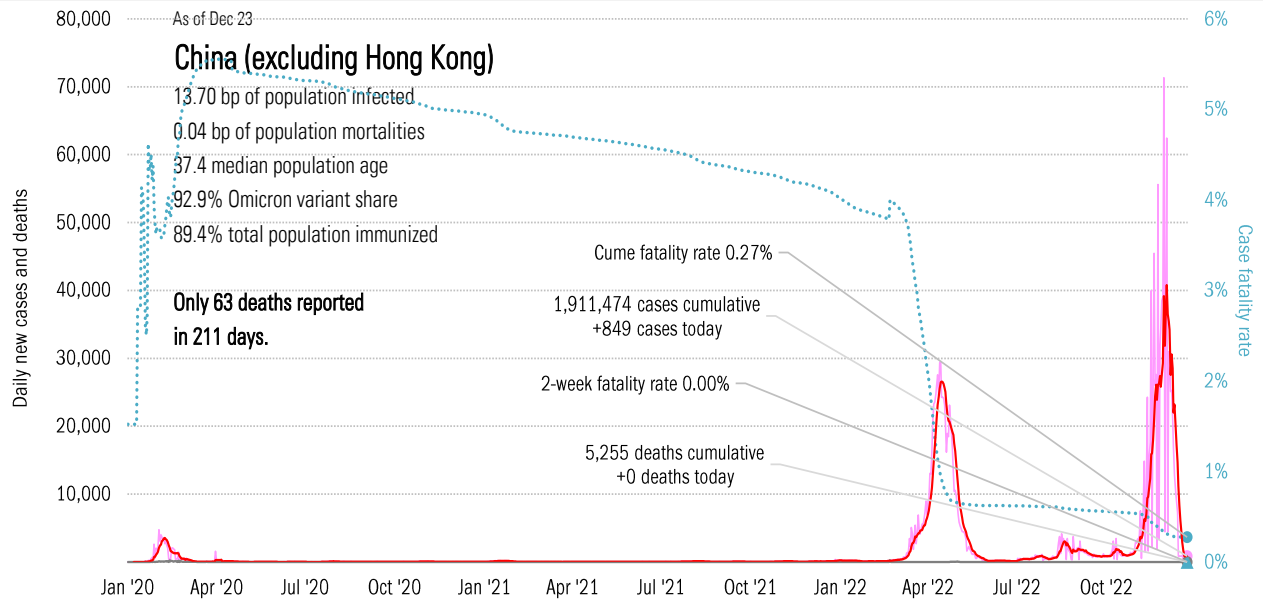
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

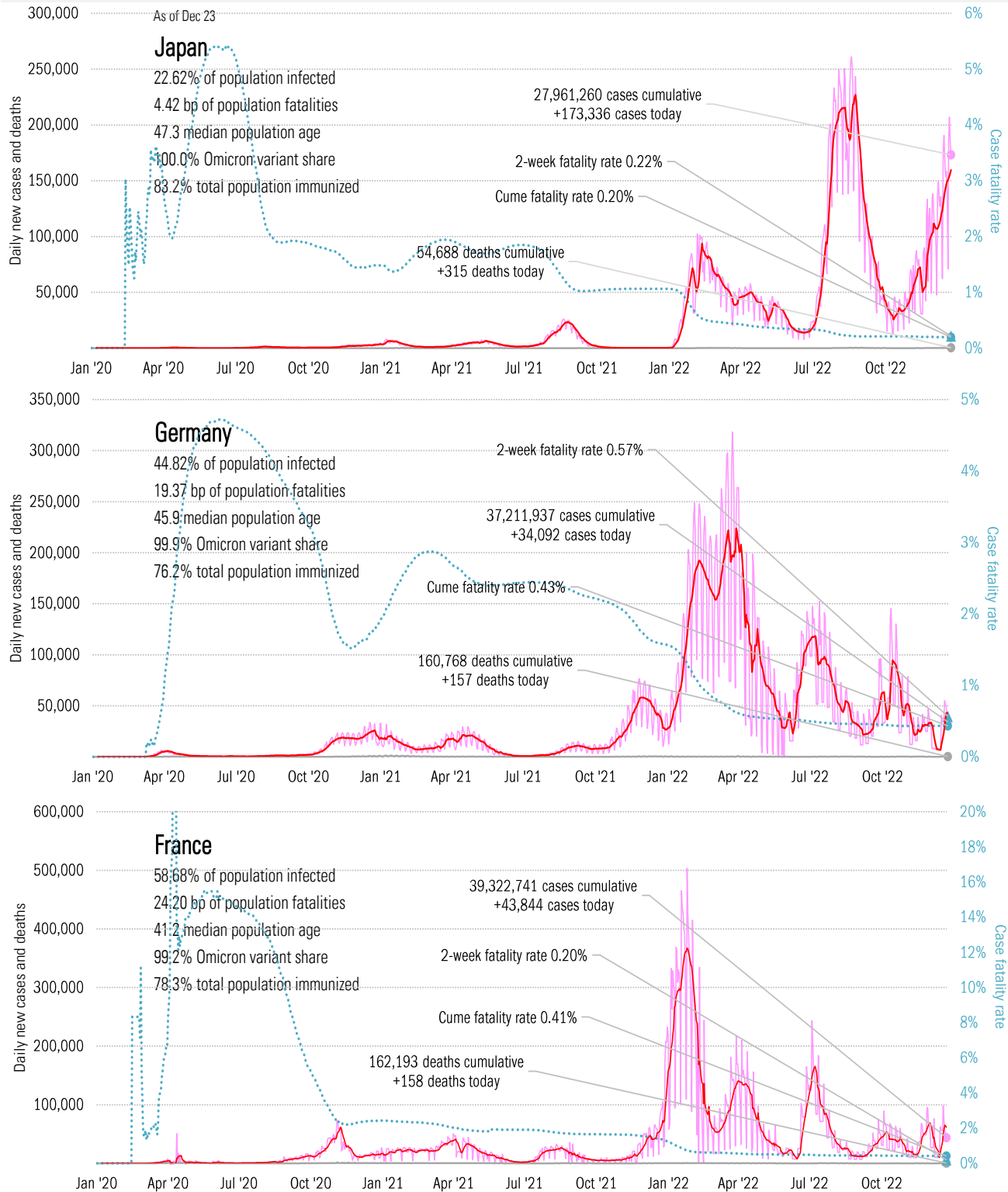
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

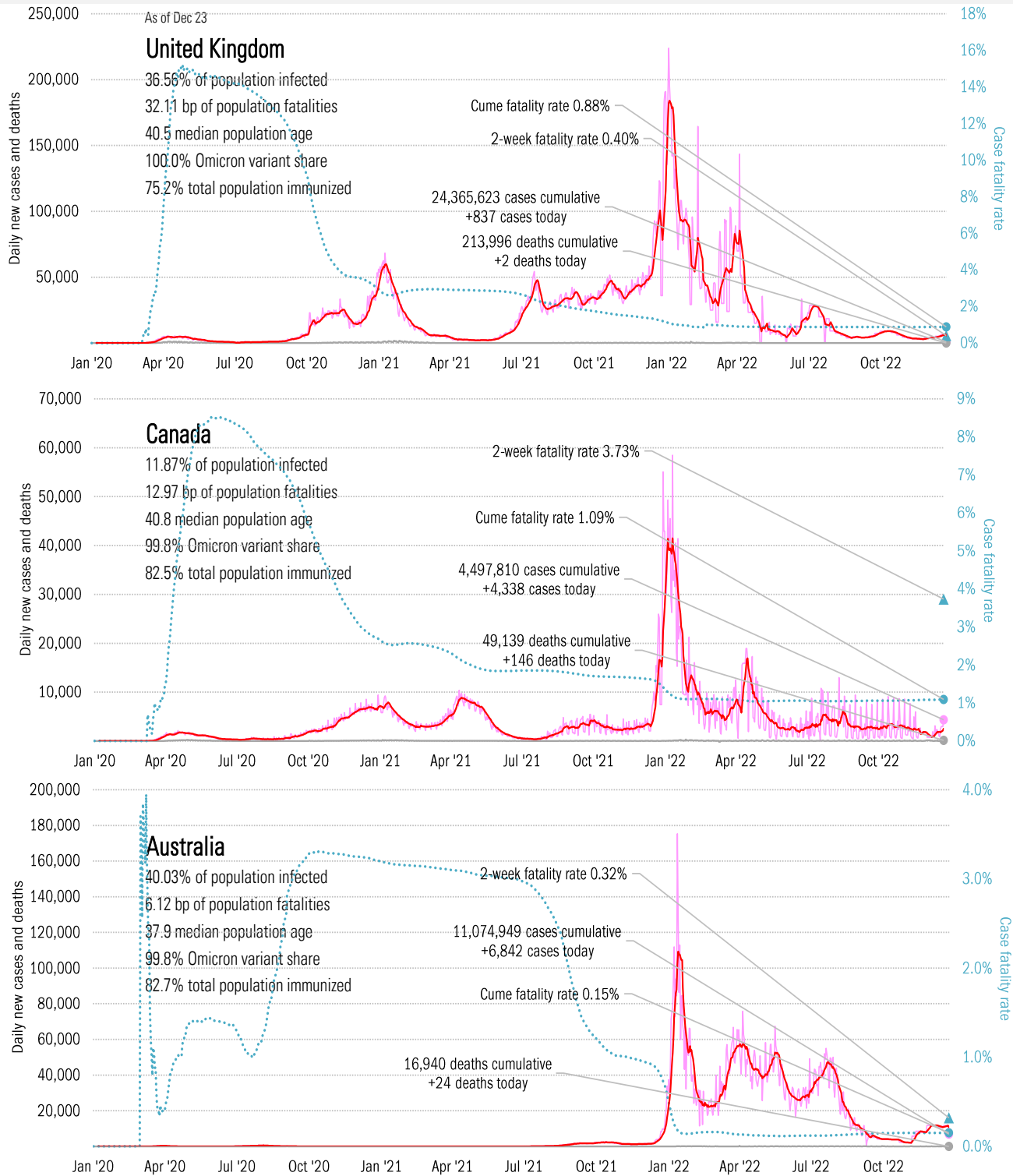
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

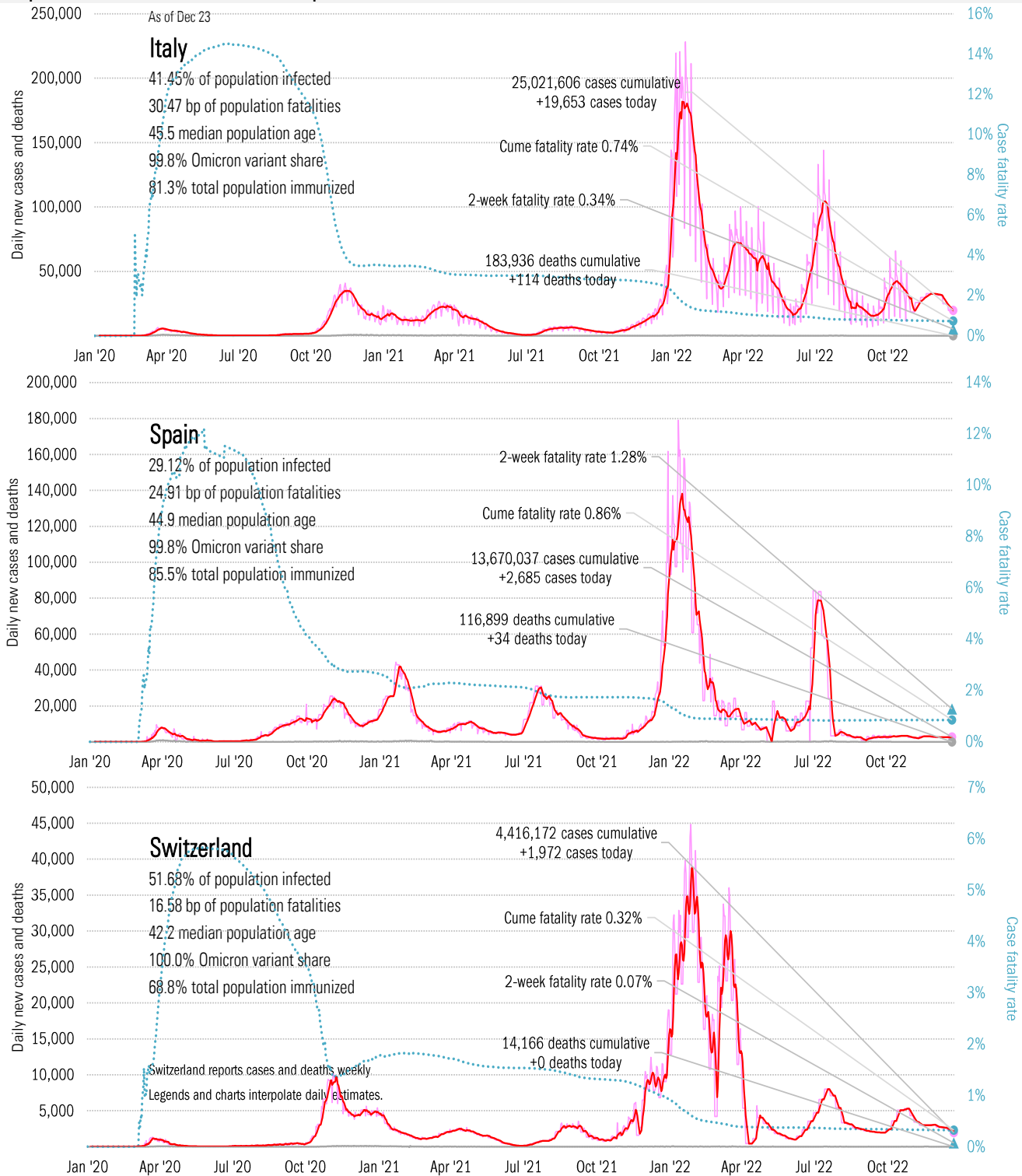
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

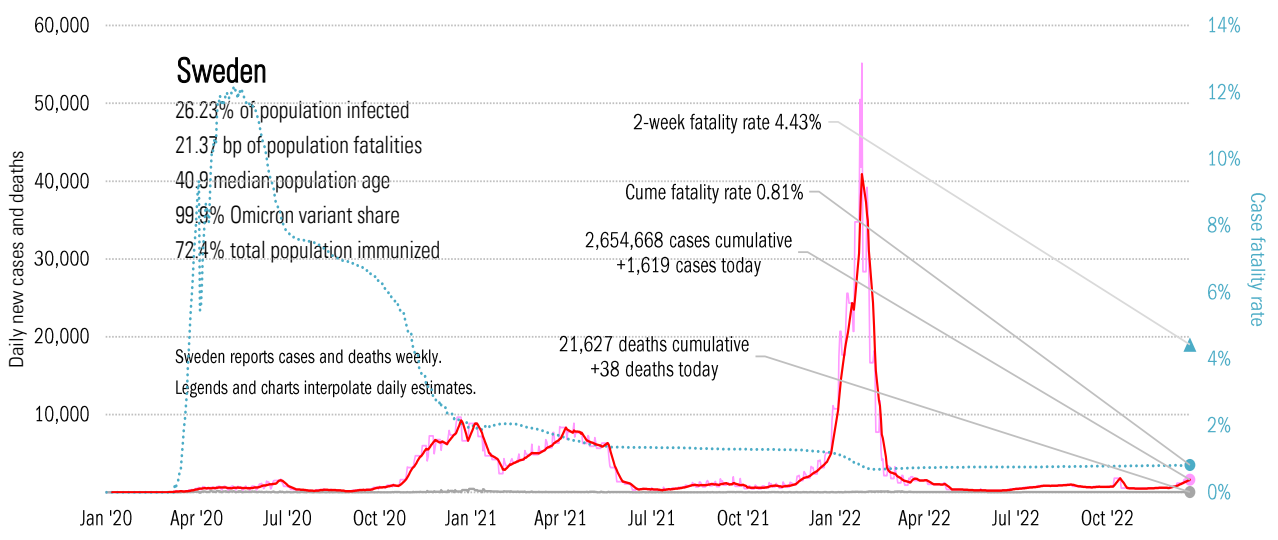
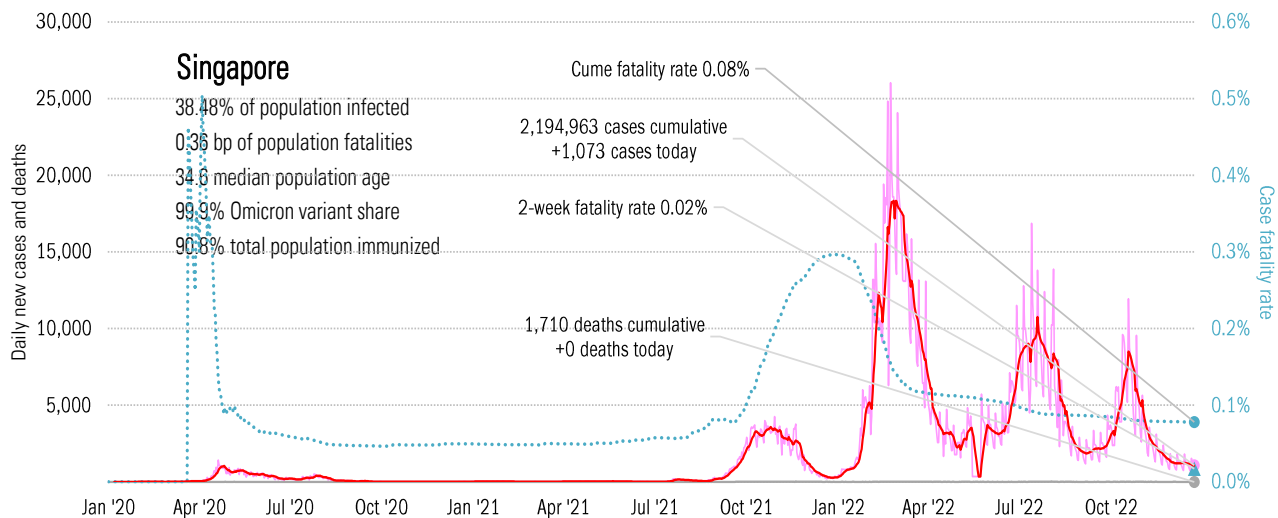
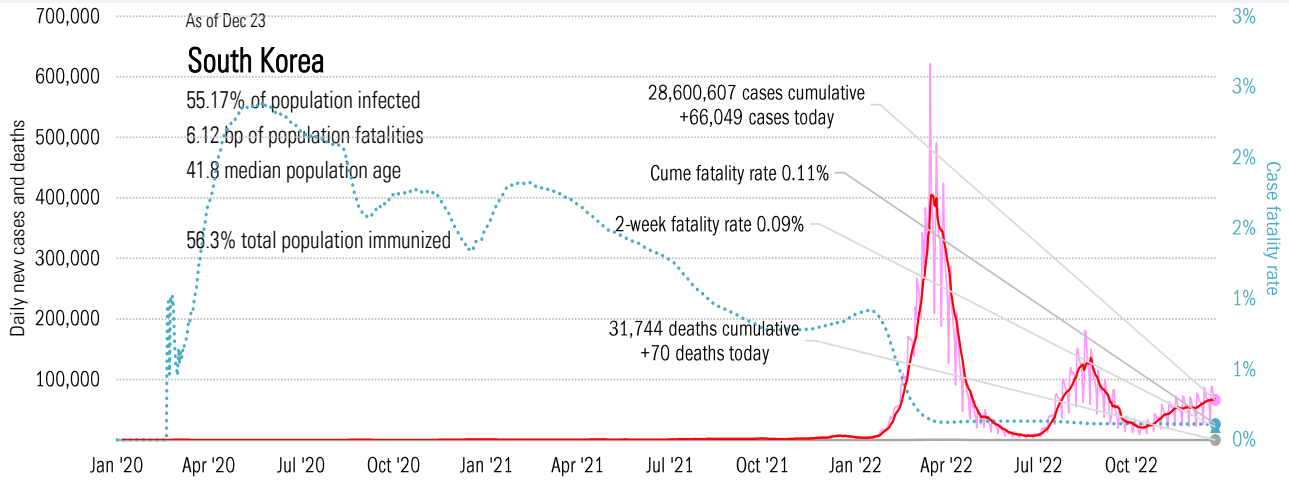
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

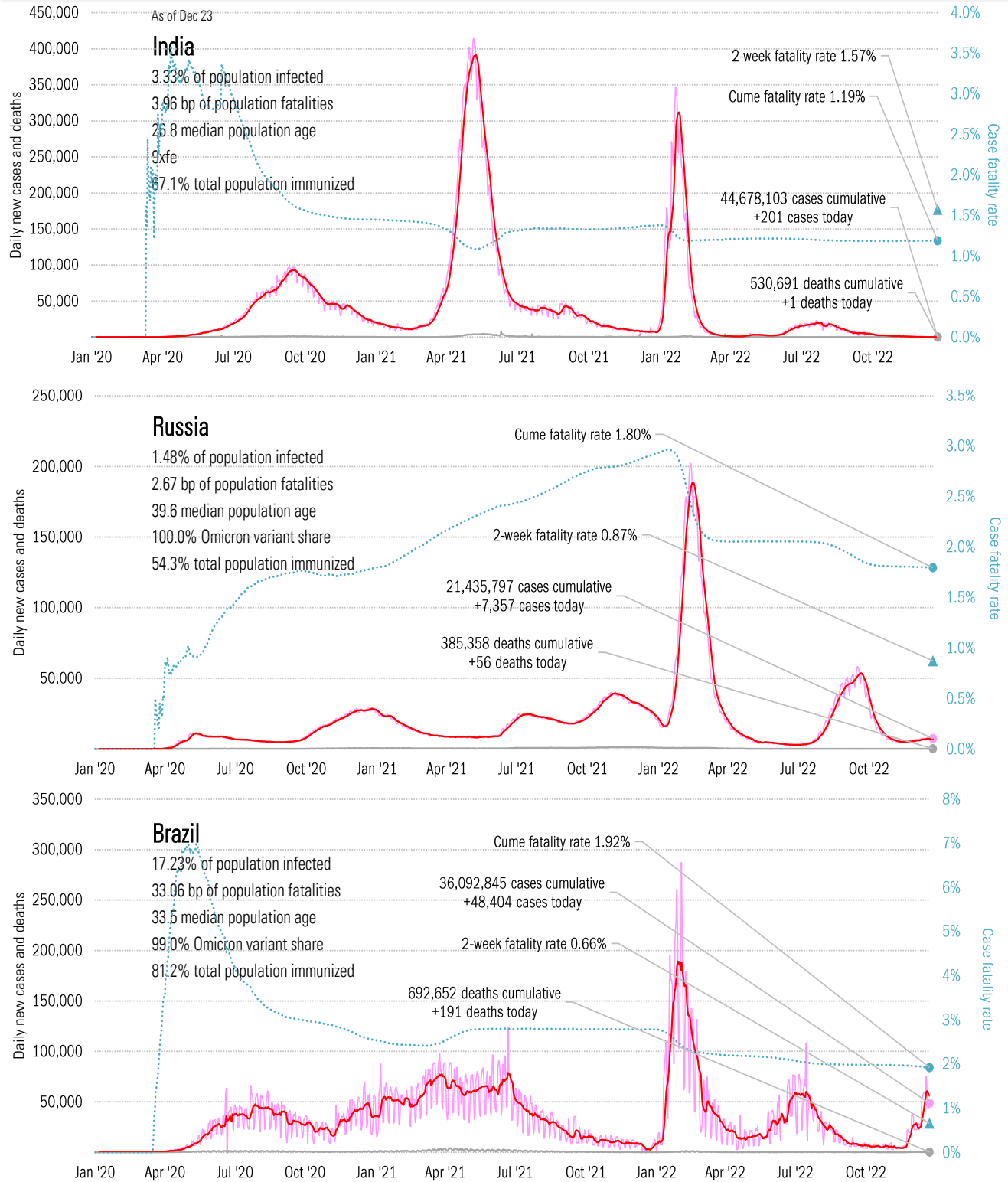
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

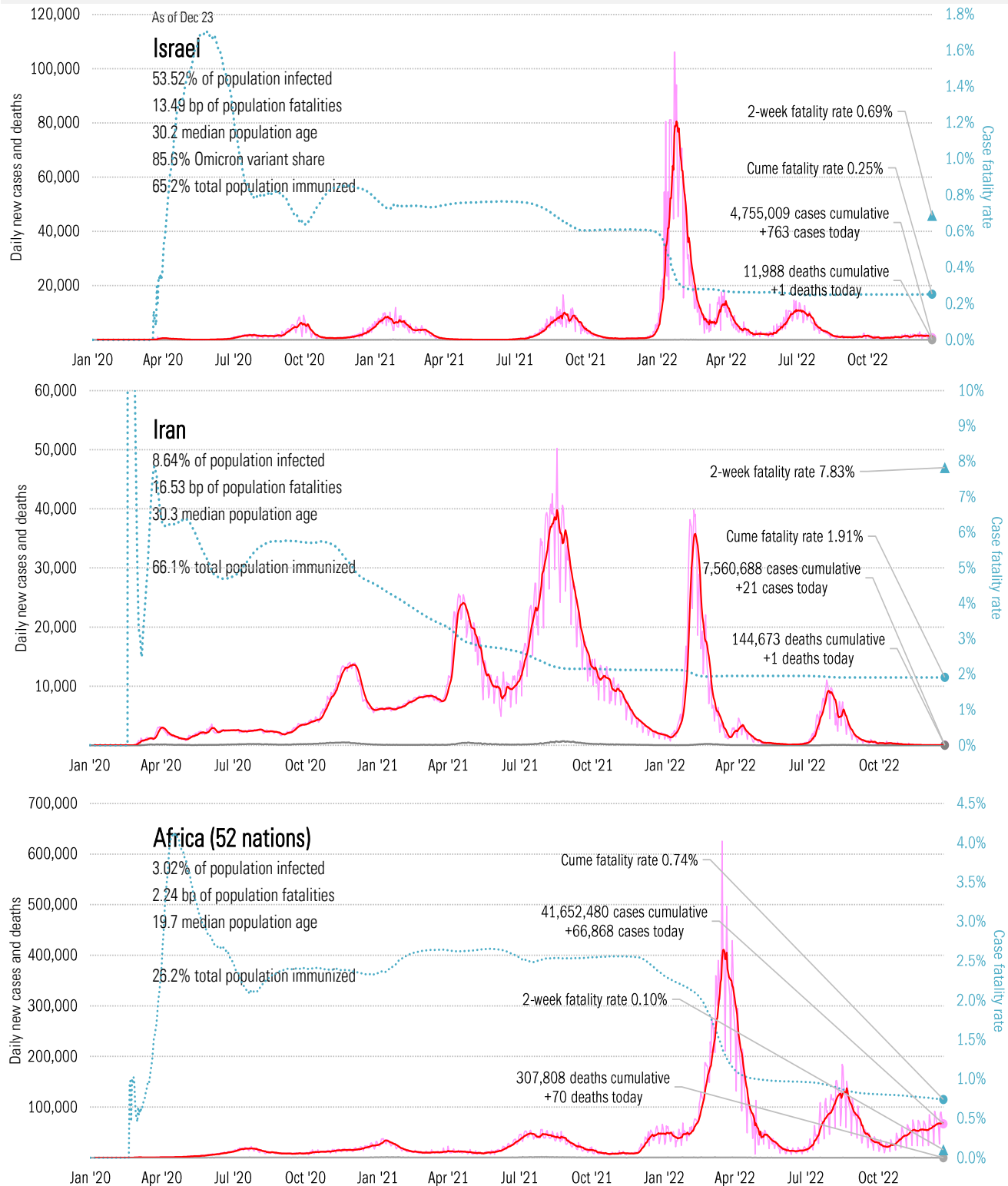
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

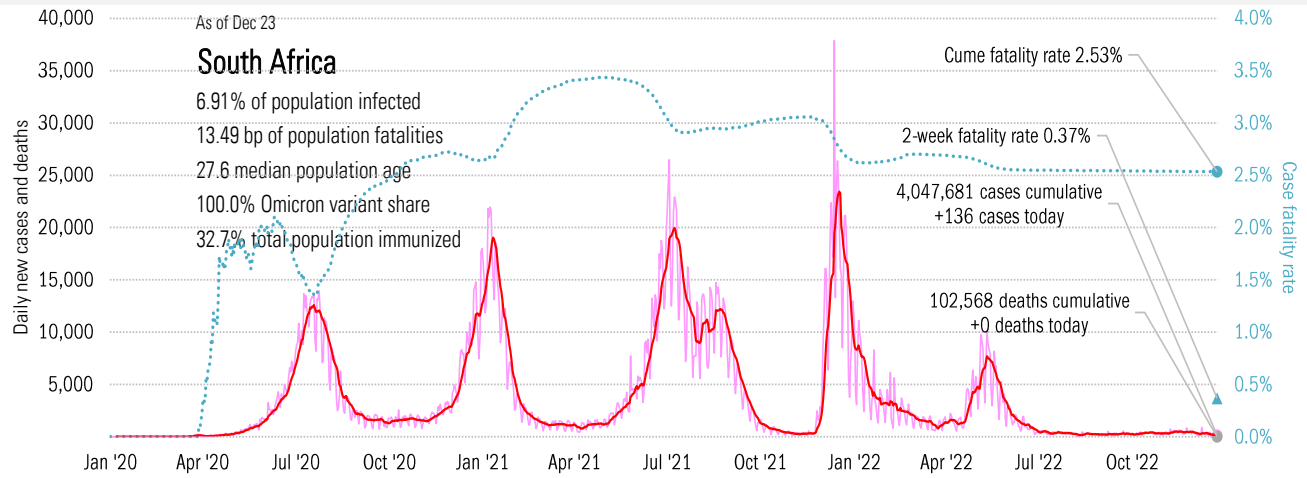
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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