Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

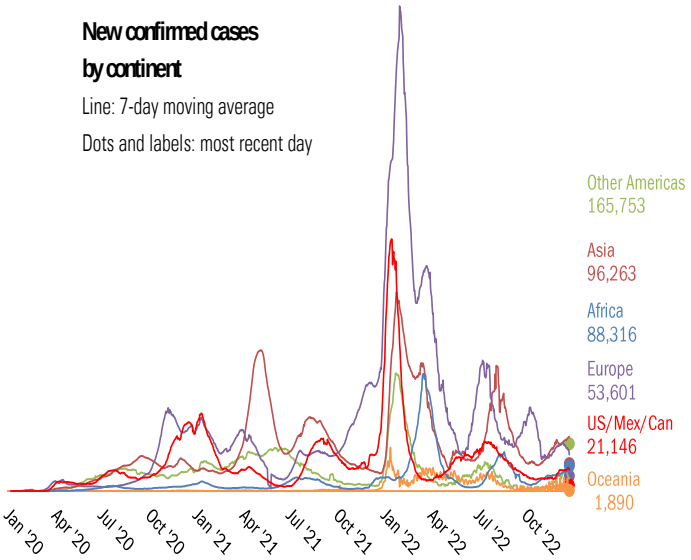
Tuesday, December 27, 2022

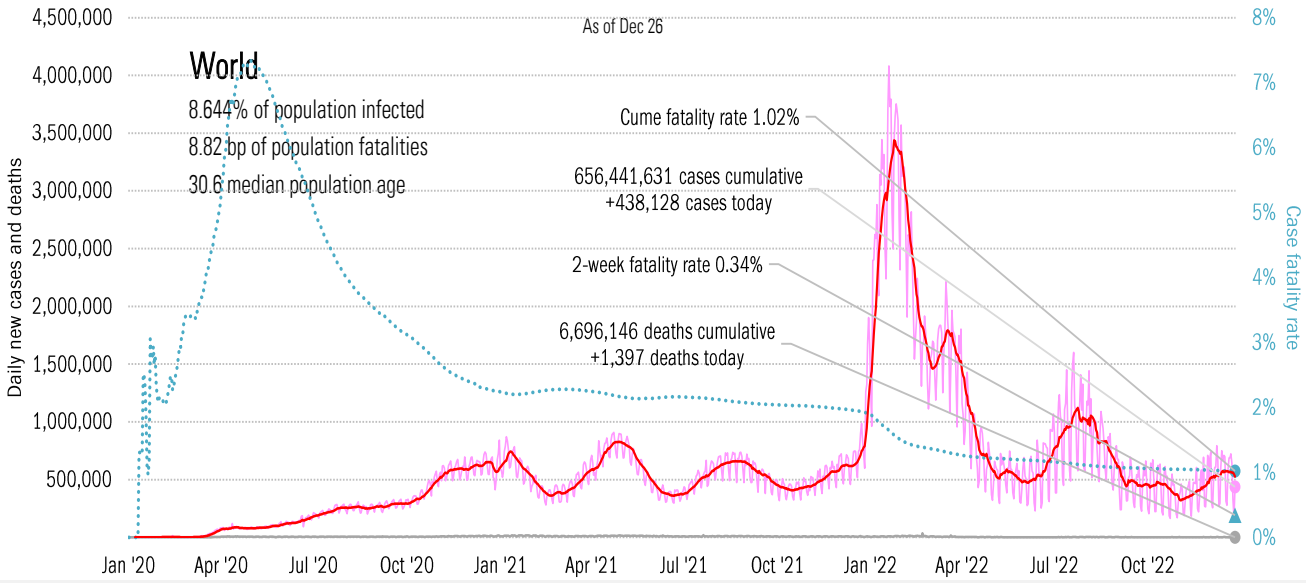
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Korea, South	87,596	Brazil	317
Japan	77,256	United States	269
Argentina	61,903	Japan	217
United States	60,575	France	158
France	40,744	Germany	157
Germany	34,092	Italy	114
Brazil	24,386	Korea, South	50
Italy	19,653	Russia	50
Taiwan*	14,234	Argentina	44
Uruguay	9,000	Sweden	38
	429,439		1,414





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

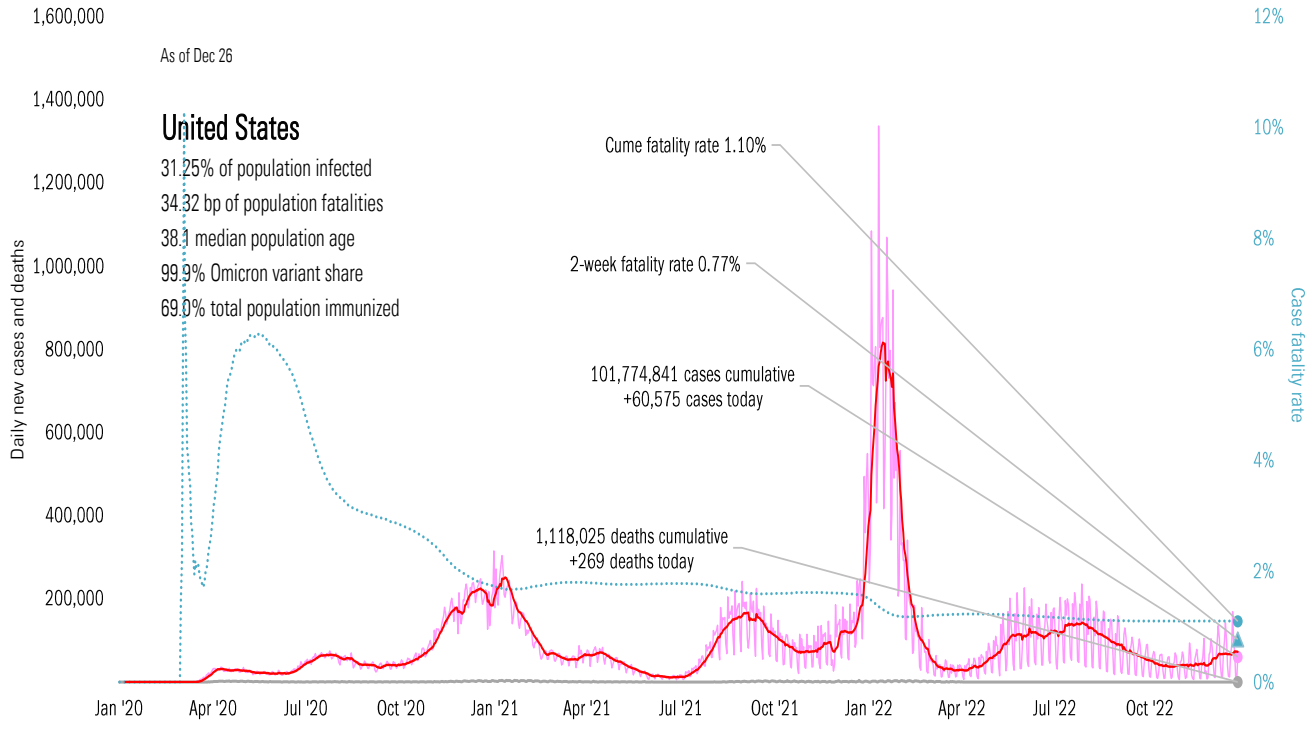
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	6,079	NY	43	CA	698	CA	11,775,426	CA	98,386	TX	565,808	MA	86%	MA	87%
CA	4,947	FL	32	PA	237	TX	8,195,135	TX	91,716	CA	538,391	DE	85%	VT	86%
VA	4,935	CA	24	GA	208	FL	7,312,963	FL	83,606	FL	511,783	RI	83%	AL	85%
IL	3,785	IL	24	TX	399	NY	6,538,958	NY	74,845	NY	333,066	WA	83%	NC	84%
LA	3,634	MI	21	VA	148	IL	3,953,928	PA	48,798	OH	234,483	MN	82%	TX	84%
NJ	3,298	PA	19	OH	260	PA	3,403,953	GA	41,361	GA	233,638	NV	82%	NV	82%
OH	2,556	NJ	17	CT	109	NC	3,316,814	OH	40,840	PA	219,452	AK	81%	NM	82%
NC	2,382	GA	17	SC	100	OH	3,294,521	MI	40,657	IL	202,785	NC	81%	AK	81%
MI	2,046	MA	16	WI	109	MI	2,977,727	IL	40,610	MI	174,292	NH	80%	WV	80%
TN	1,924	AZ	16	MA	157	GA	2,974,619	NJ	35,425	NJ	152,151	CA	80%	WA	80%
	35,586		229		2,425		53,744,044		596,244		3,165,849				
All states	60,575		269		5,262	All states	101,774,841		1,118,025		5,747,717	All states	70%		67%
Top ten	59%		85%		46%	Top ten	54%		55%		55%	Median	71%		73%

Some states not reporting

Five most improved US states

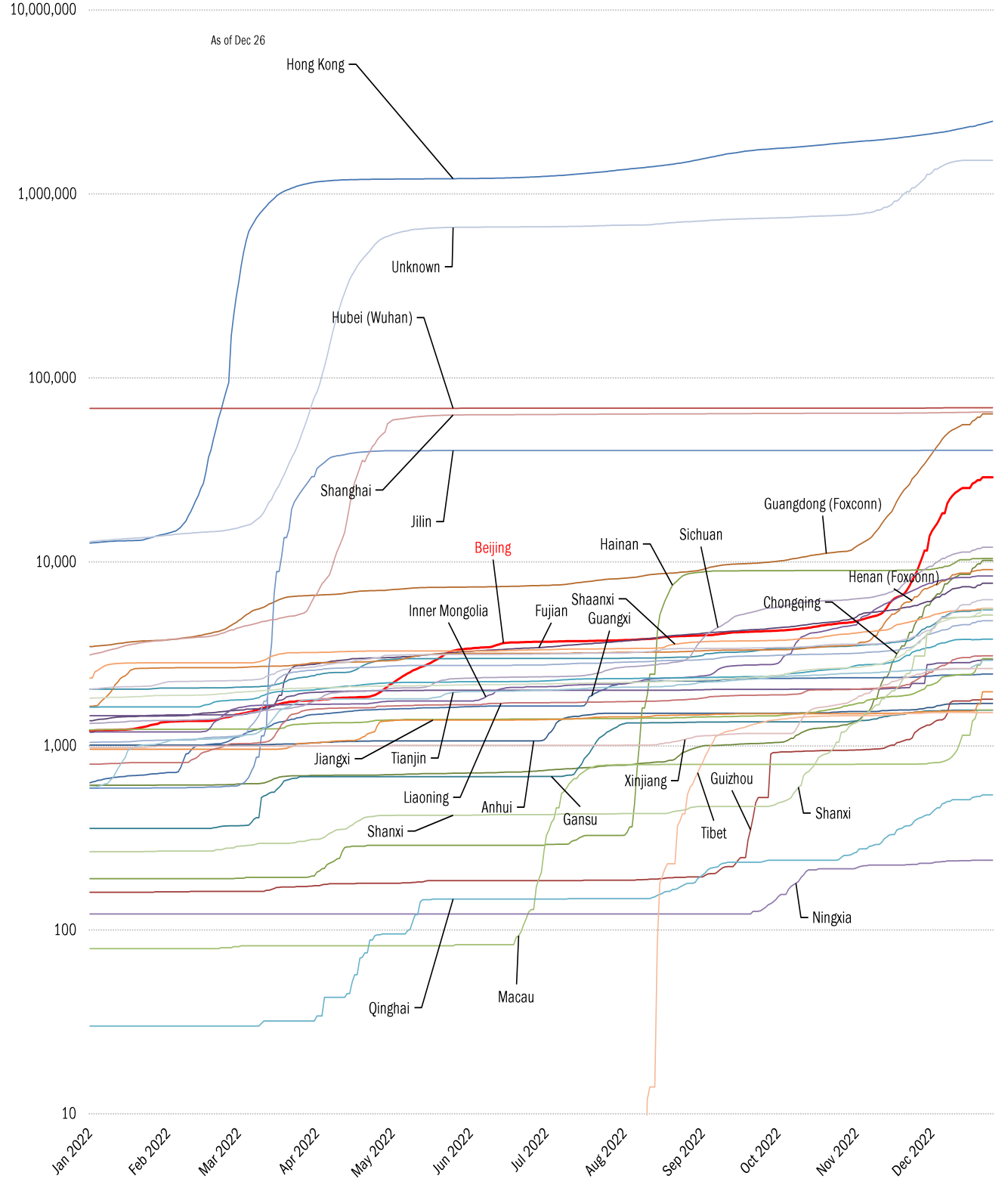
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
PA	-1,184	CO	-25	NY	-112
NY	-783	CA	-23	IL	-45
WV	-497	AK	0	MD	-38
CT	-102	AL	0	MO	-34
WY	-55	AR	0	MI	-33



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

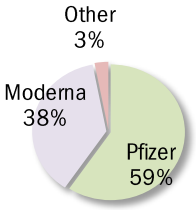
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	678,686,171				+0.129 million
				Of which boosters:	+0.112 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	276,532,813	83%	235,793,758	71%	+0.012 million
Age 12 to 17	18,402,383	73%	15,755,703	62%	+0.001 million
Age 18 to 64	183,917,291	90%	156,388,919	77%	+0.007 million
Age 65 and over	60,924,924	100%	53,362,544	97%	+0.003 million

Immunity	Full	Partial
US	69.0%	80.8%
UK	75.2%	79.7%
France	78.3%	80.6%
Spain	85.5%	86.9%
Germany	76.2%	77.8%
Italy	81.3%	86.2%
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%

Global data differs due to sources, timing



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

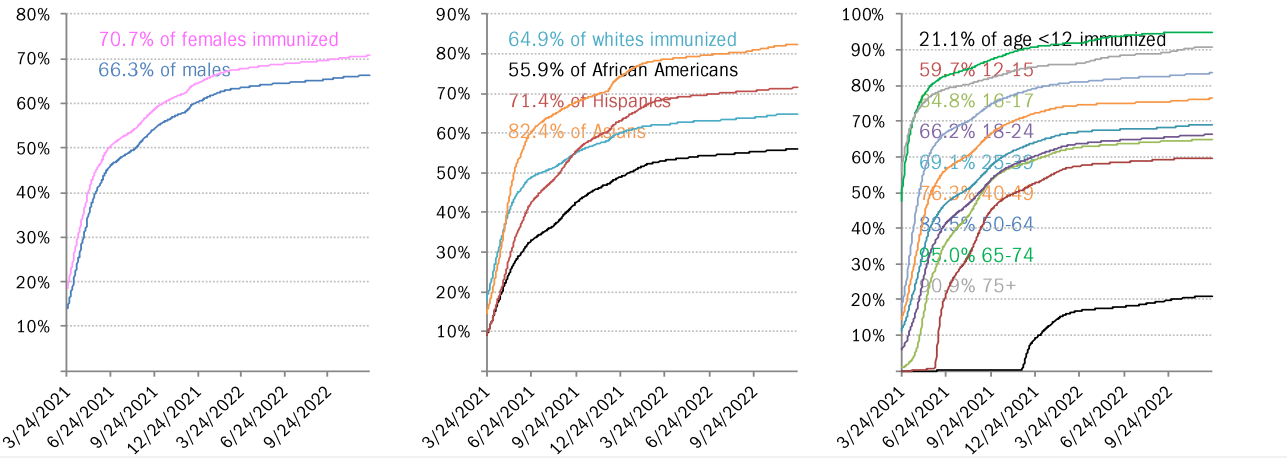
"Immunity" = two doses

Best
Middle
Worst

As of Dec 23

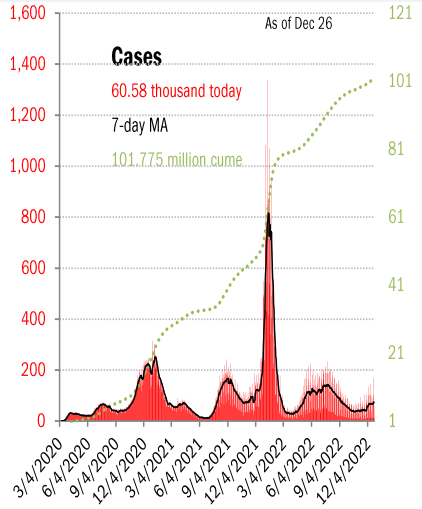
AK					WI					ME
72.7%					74.8%					95.0%
64.9%					67.9%					83.0%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
84.8%	63.7%	68.0%	69.0%	78.4%	78.9%	69.2%		94.0%	95.0%	87.5%
75.7%	56.3%	58.9%	58.4%	71.8%	71.0%	62.1%		80.4%	85.2%	71.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.2%	77.2%	60.7%	83.3%	70.4%	64.1%	65.5%	90.1%	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%			
HI			TX					FL		PR
91.0%			76.0%					82.1%		95.0%
81.2%			63.0%					69.2%		86.7%

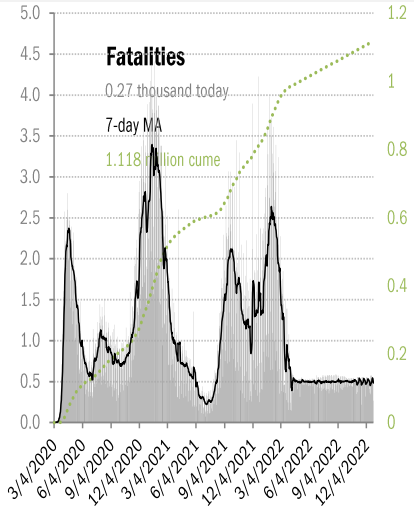
The demographics of US vaccination

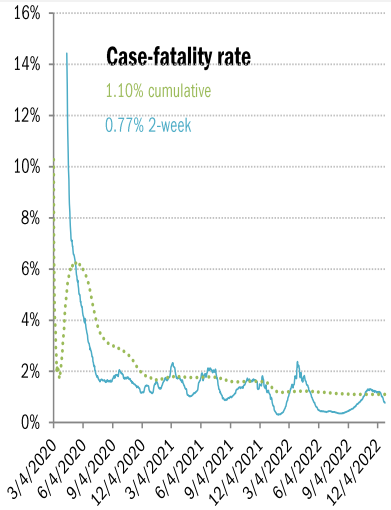


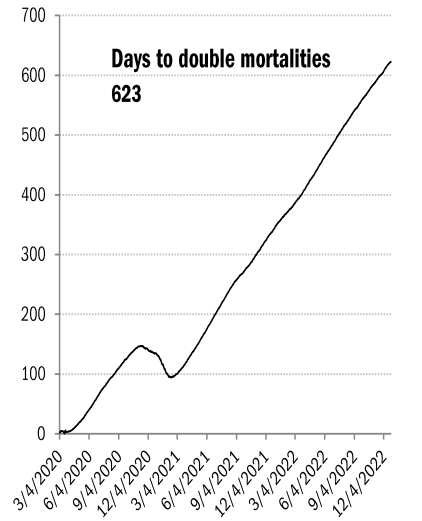
Source: CDC, CDC, Our World in Data, TrendMacro calculations

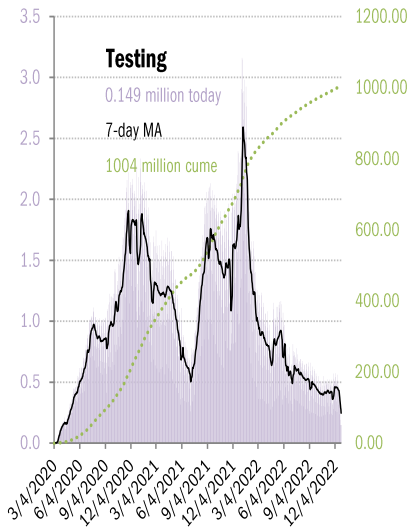
US deep-dive

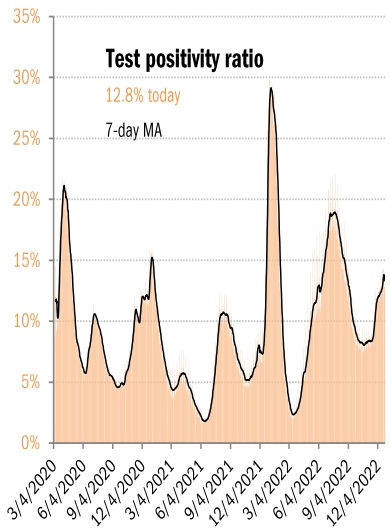


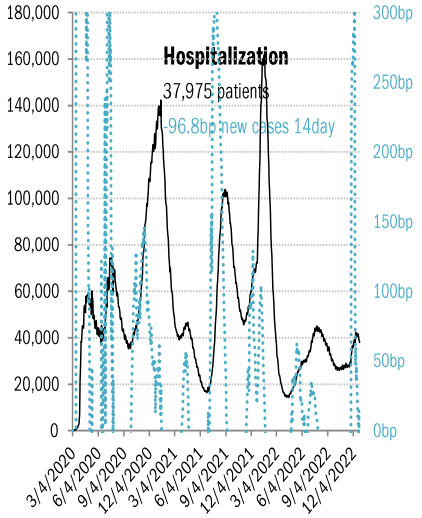


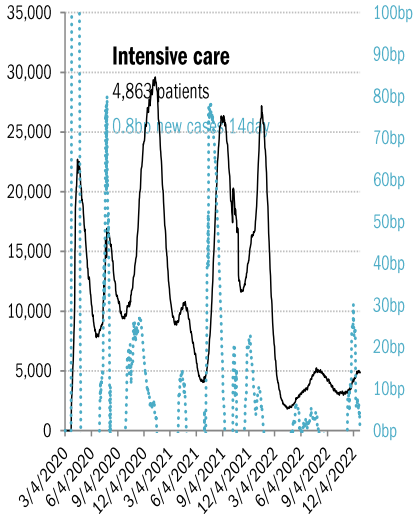


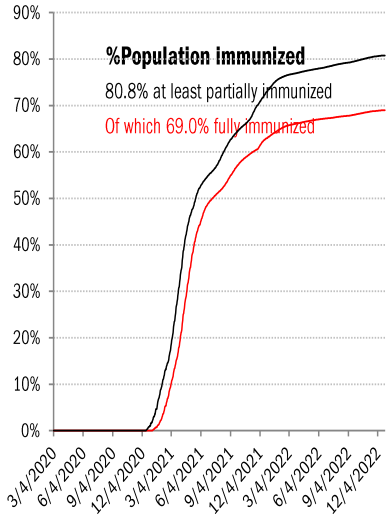










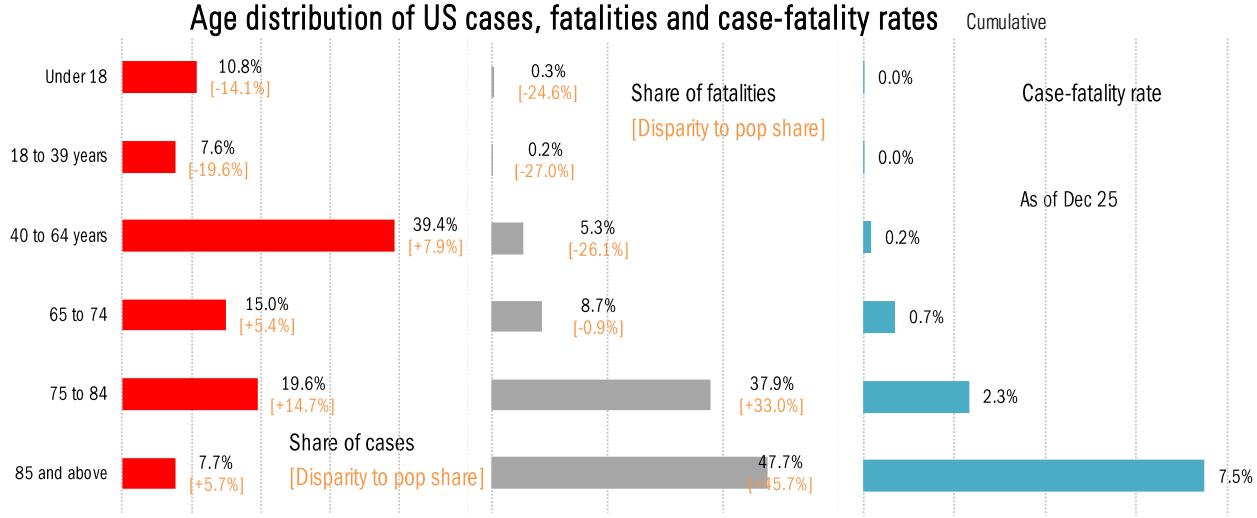


Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

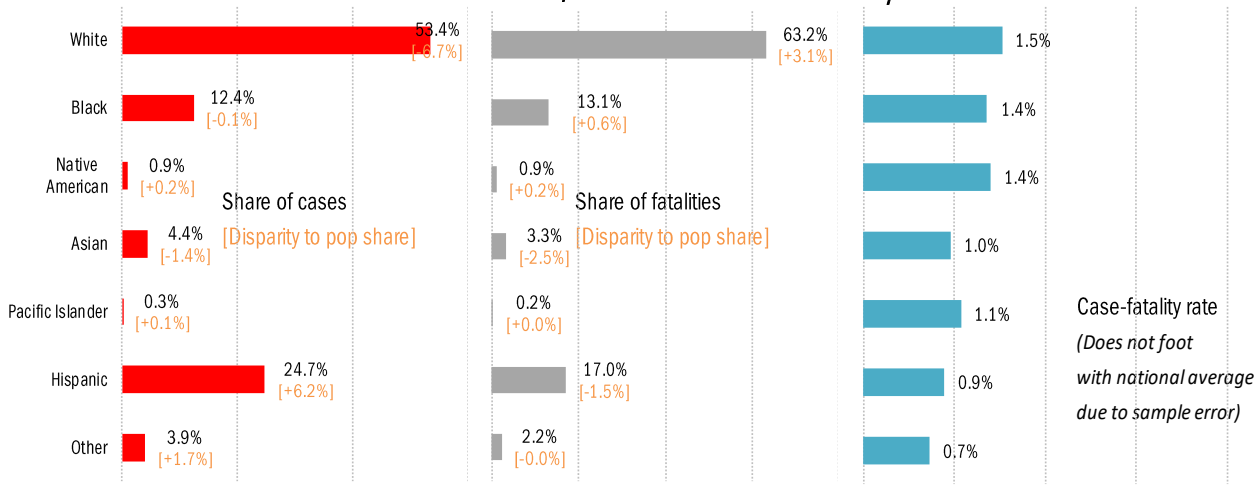
US deep-dive: demographics of age, race and health

Updates weekly on Sunday, 1 week lag

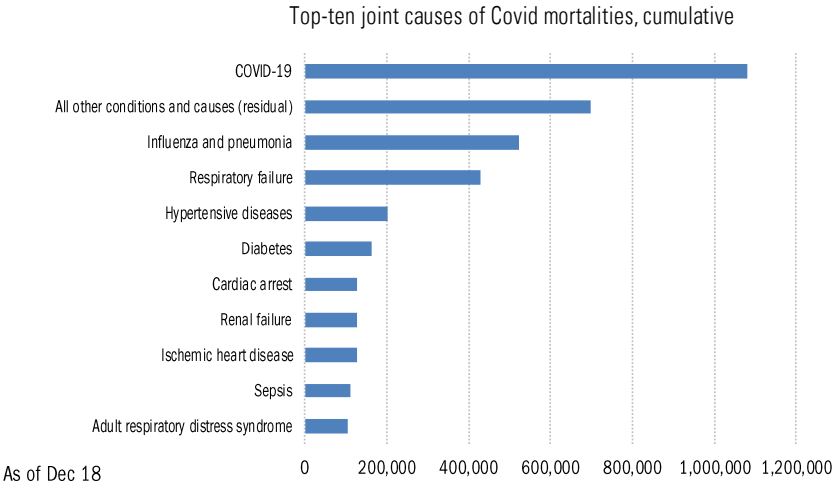
Age distribution of US cases, fatalities and case-fatality rates



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



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

China ends Covid quarantine for travellers in January
Frances Mao & Fan Wang
BBC
December 27, 2022

China's COVID cases overwhelm hospitals
Martin Quin Pollard
Reuters
December 26, 2022

The Last Holdouts What it's like to wear masks for Covid when most others have long since moved on.
Amy Harmon
New York Times
December 26, 2022

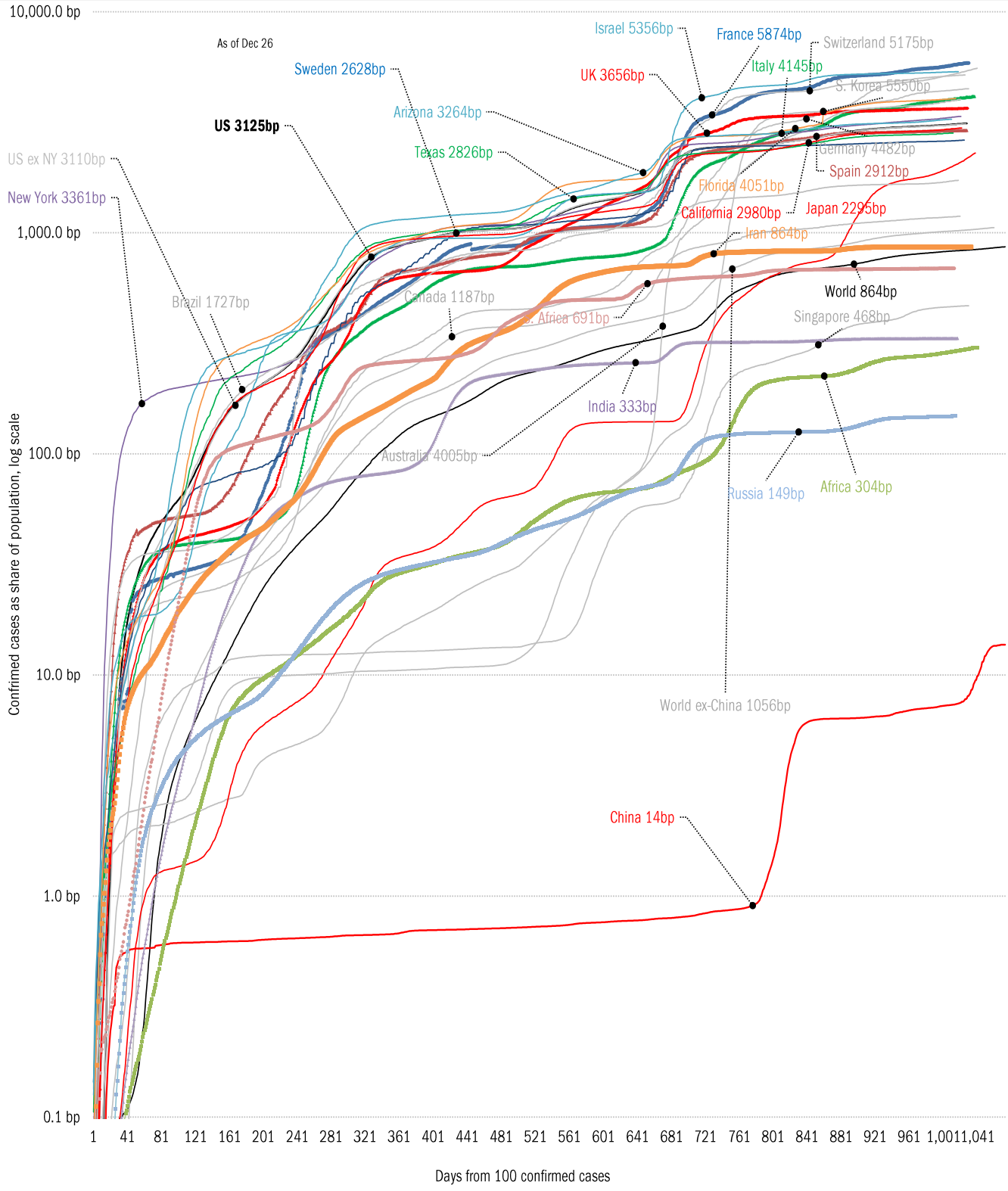
Twitter Files: White House pushed Twitter to censor COVID-19 'misinformation'
Misty Severi
Washington Examiner
December 26, 2022

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

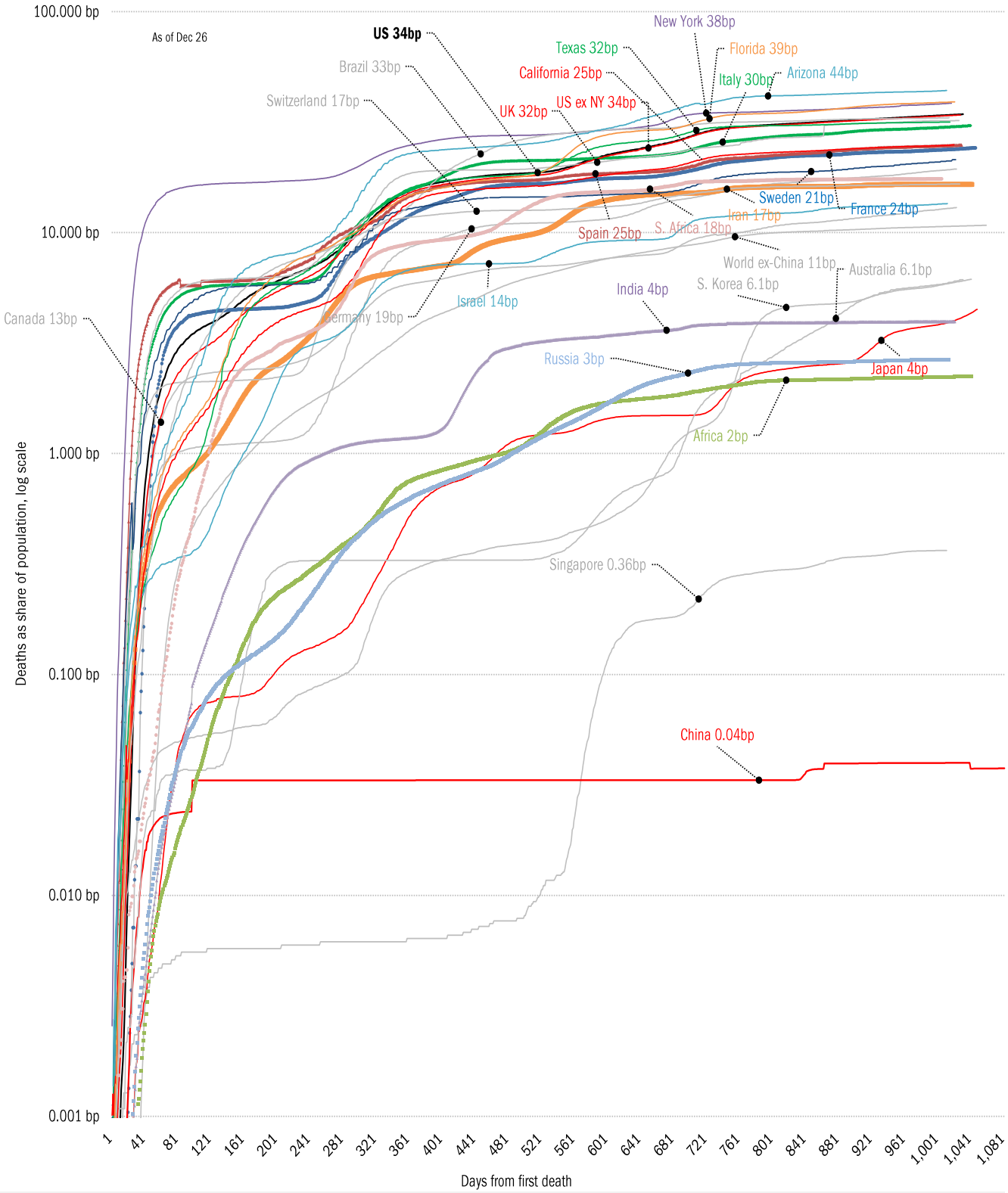
Share of infected population from first day with 100 confirmed cases, log scale



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

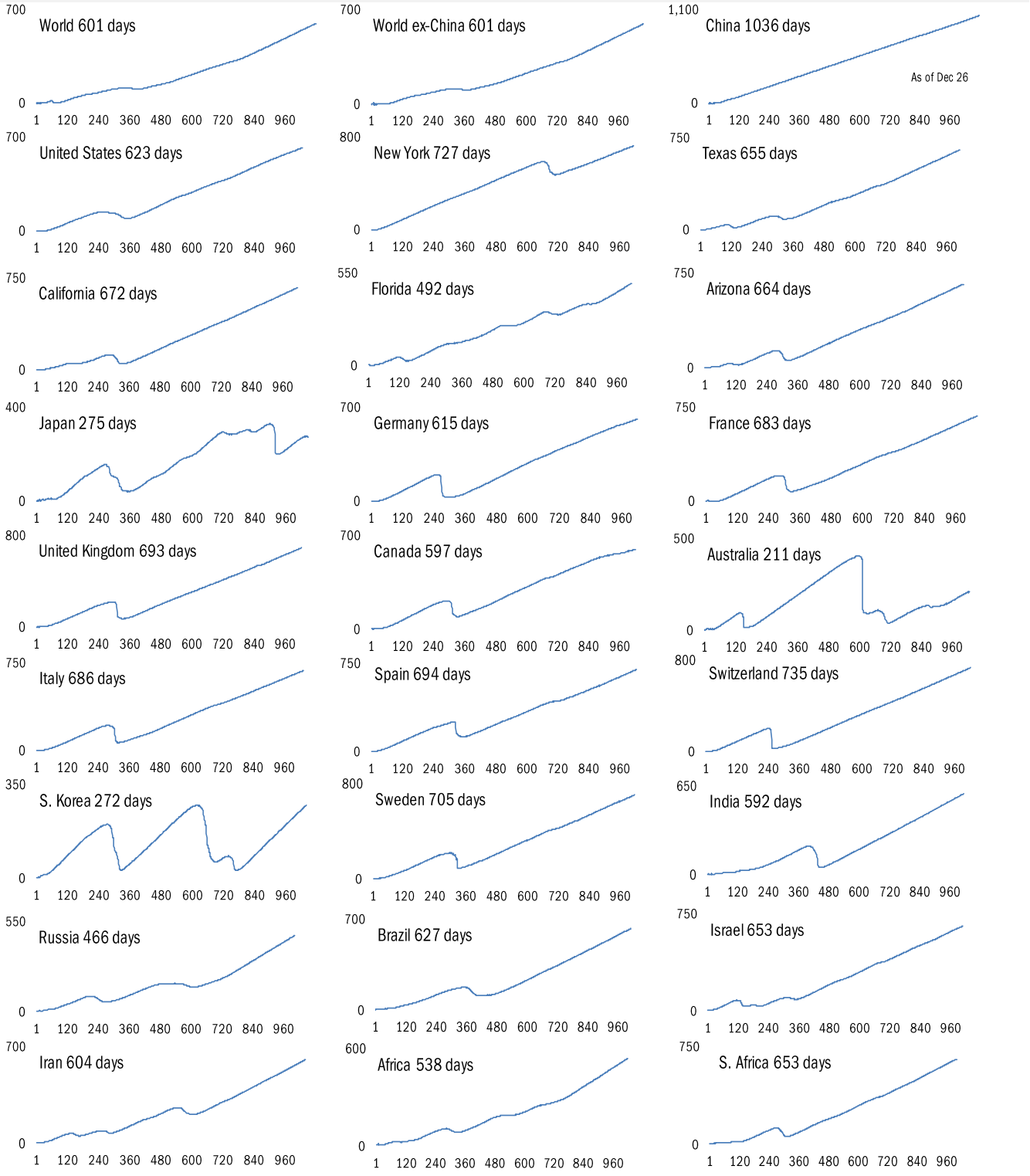


Source: Johns Hopkins, TrendMacro calculations

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

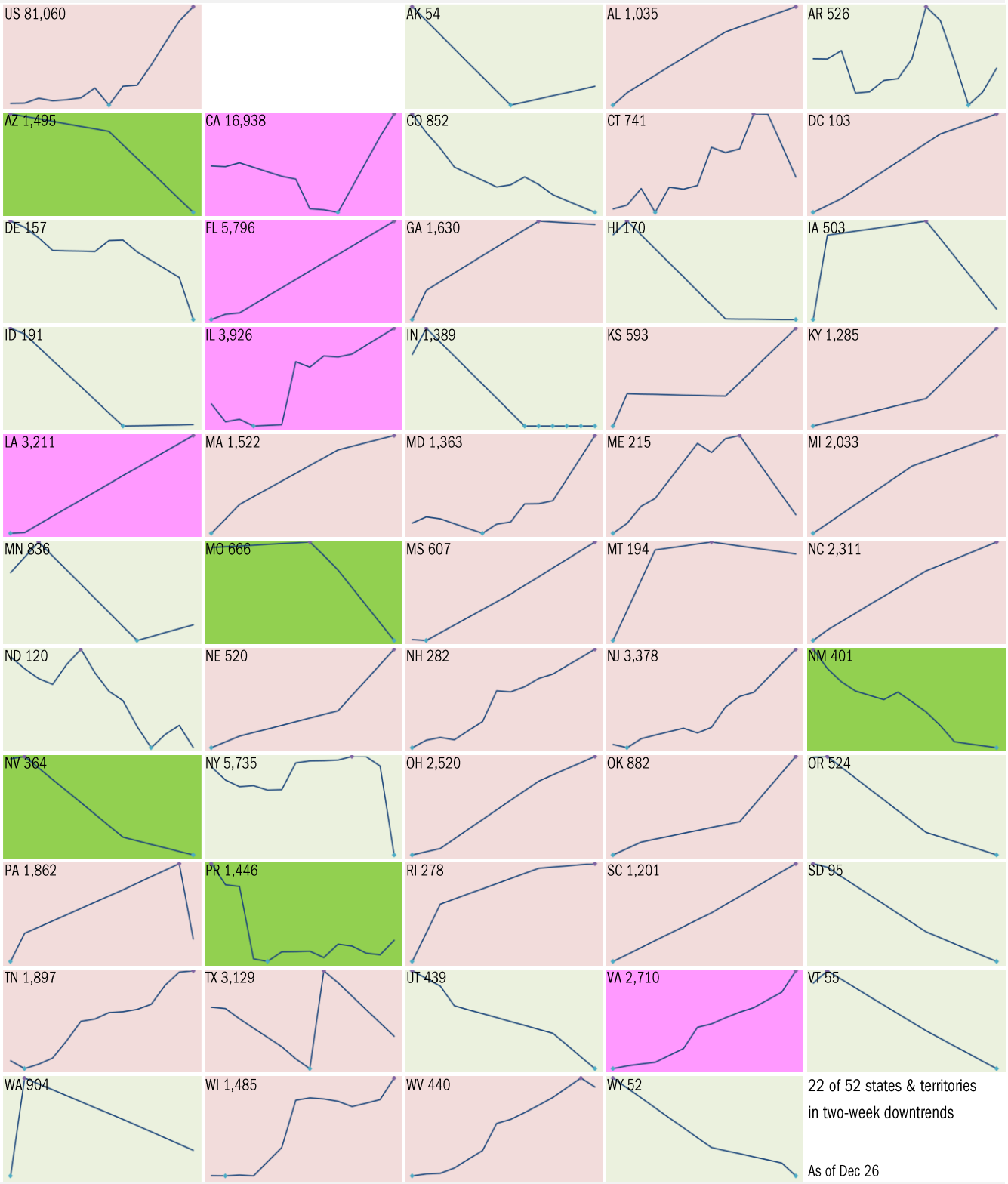


Source: Johns Hopkins, TrendMacro calculations

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

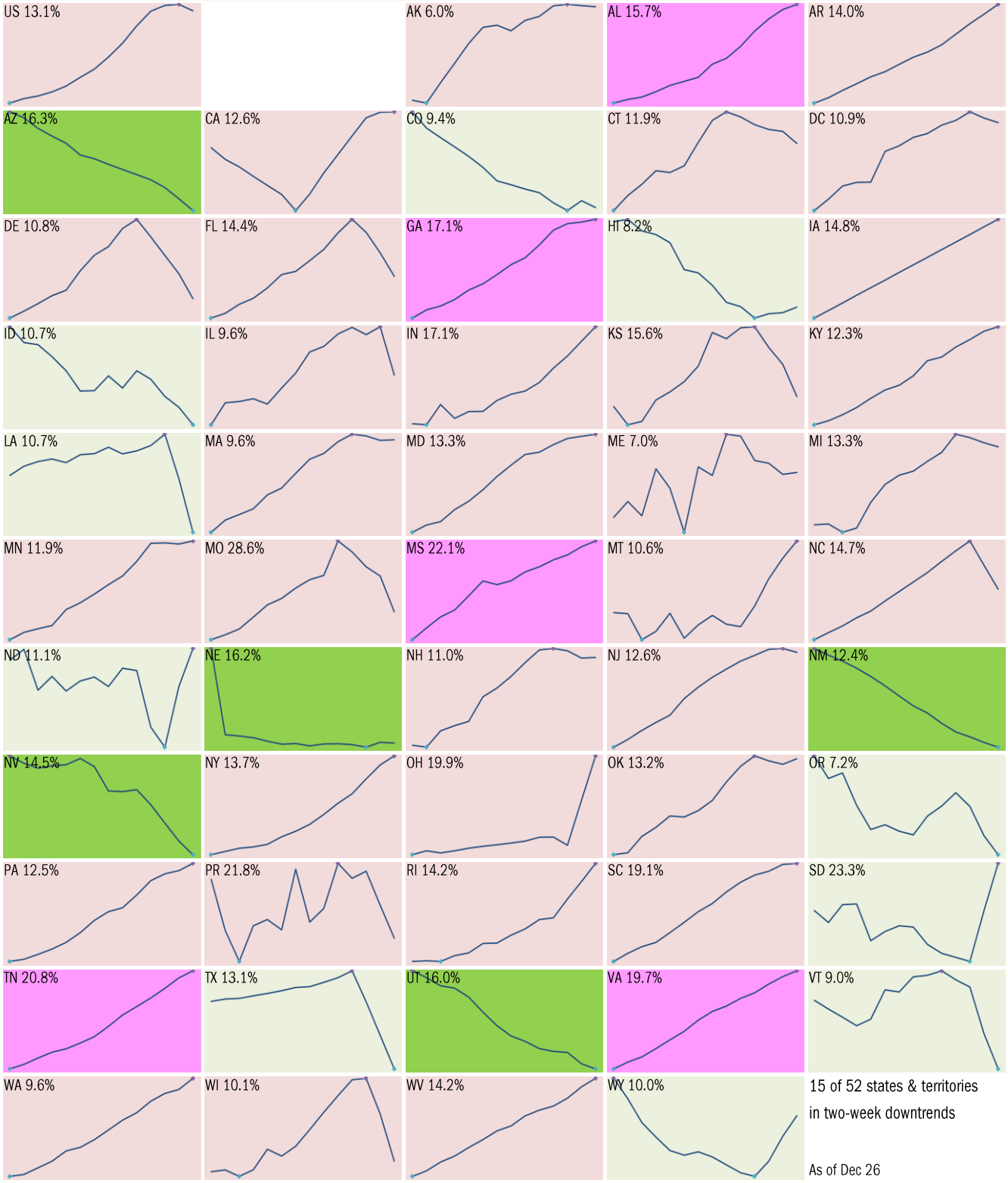


Source: Johns Hopkins, TrendMacro calculations

14-day trajectory in **test-positivity ratio**

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

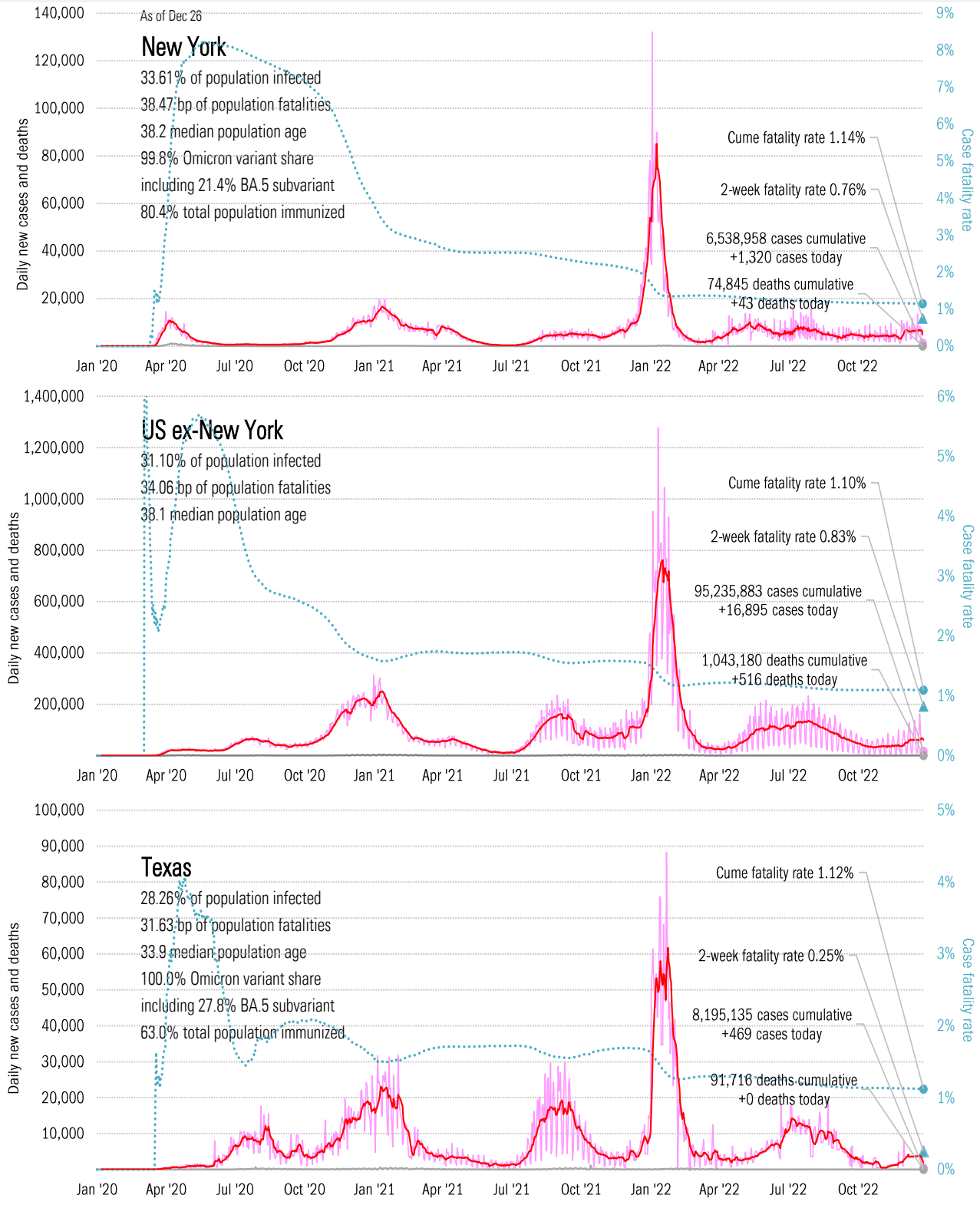
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

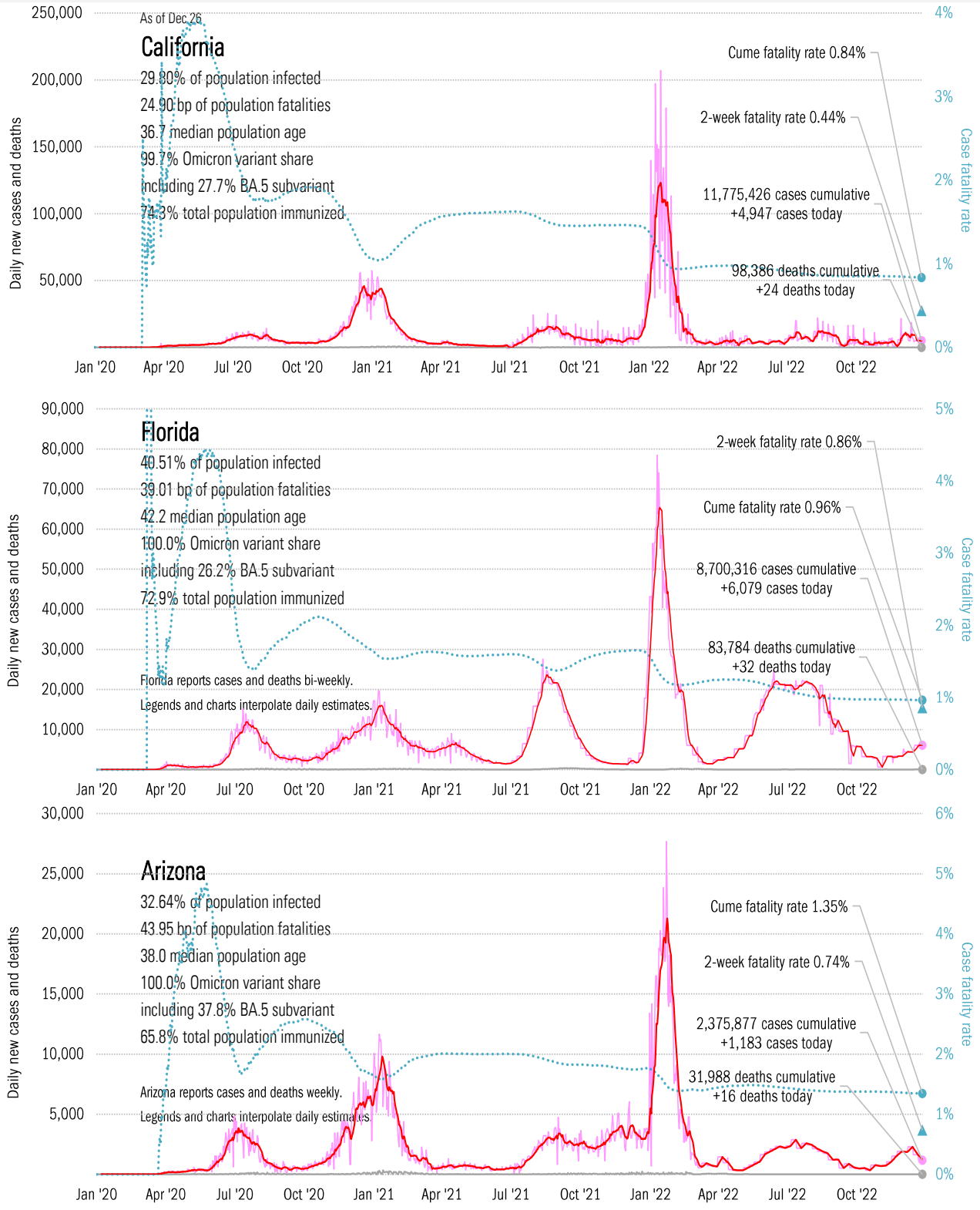
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

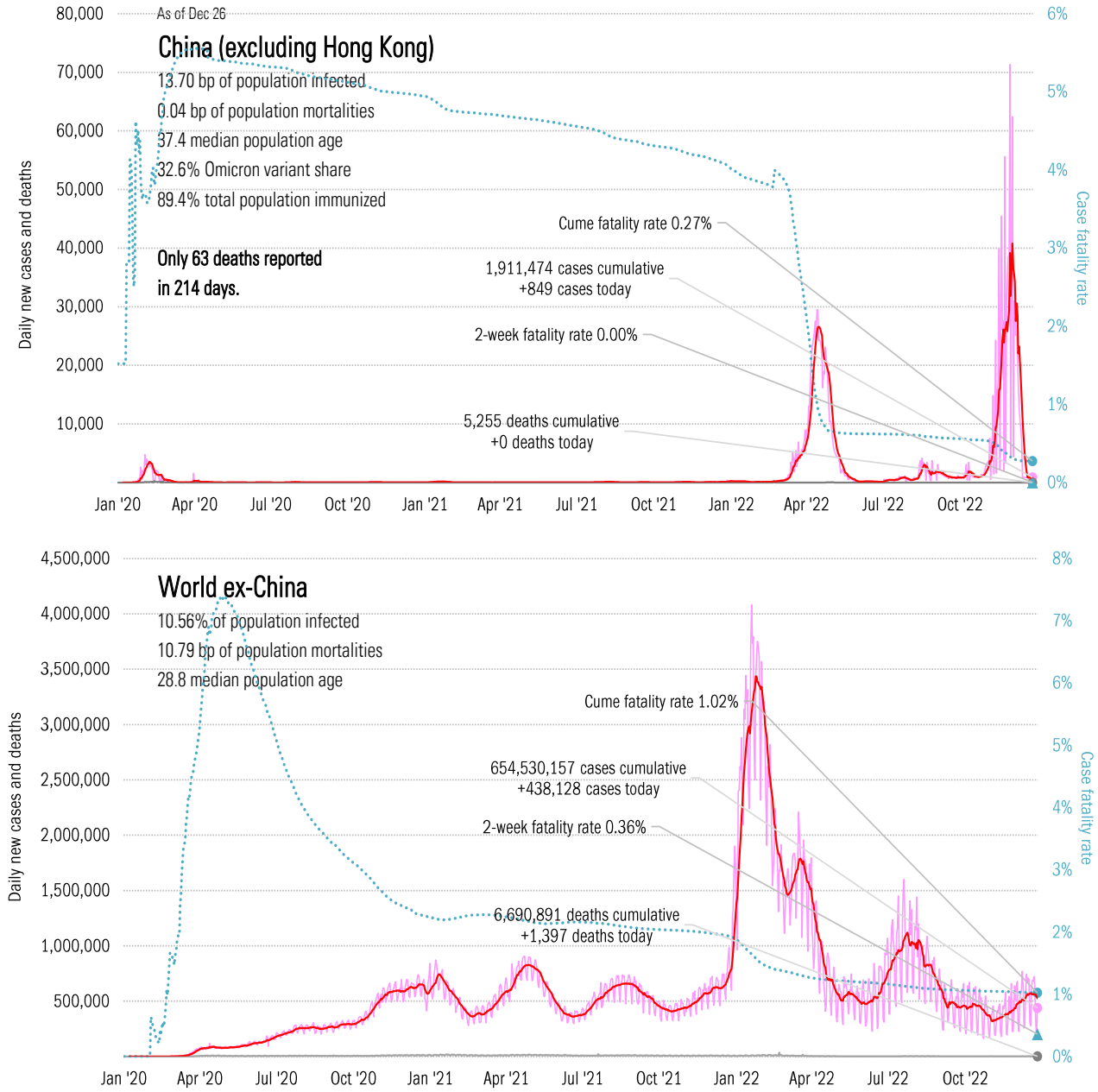
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

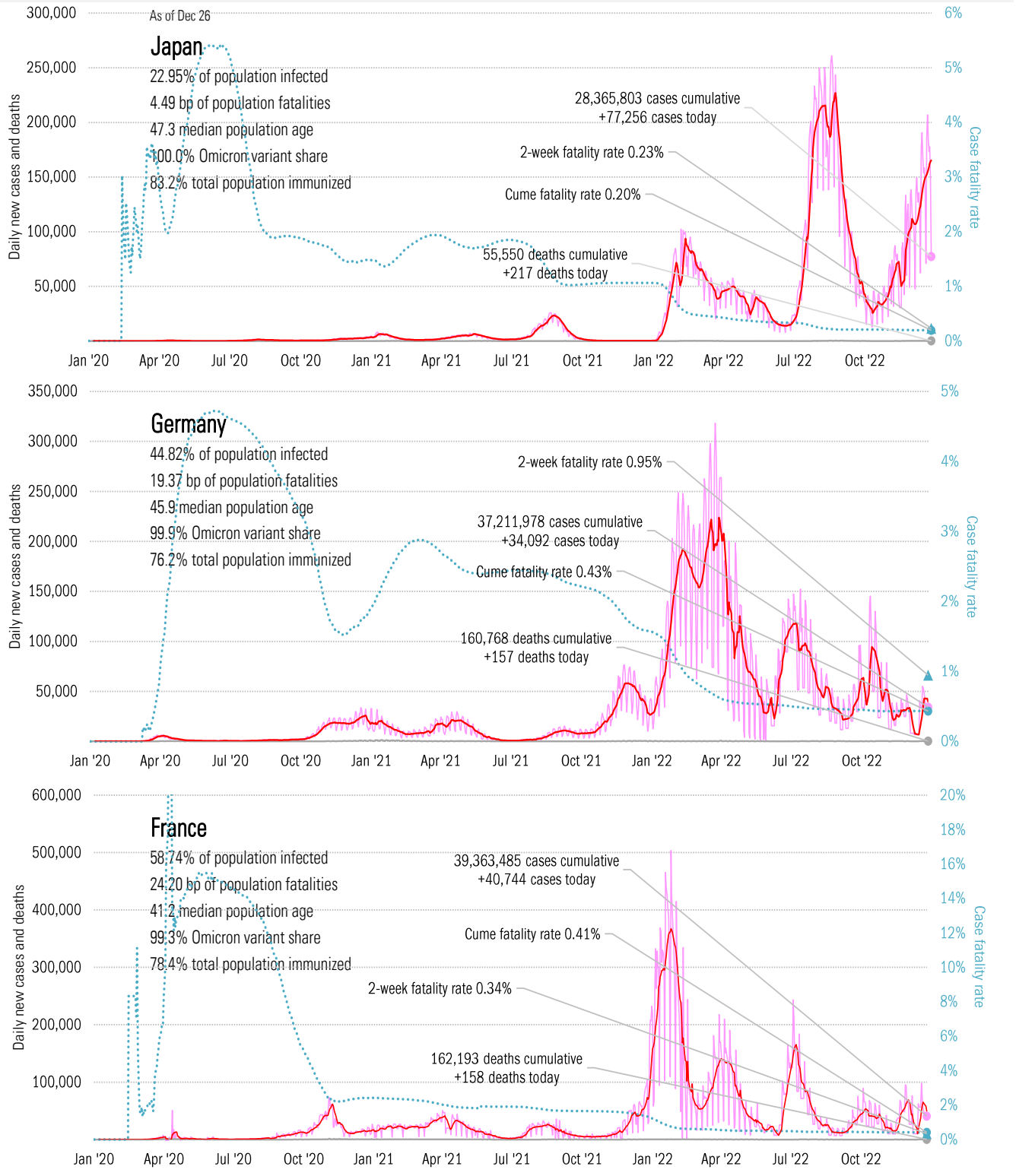
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

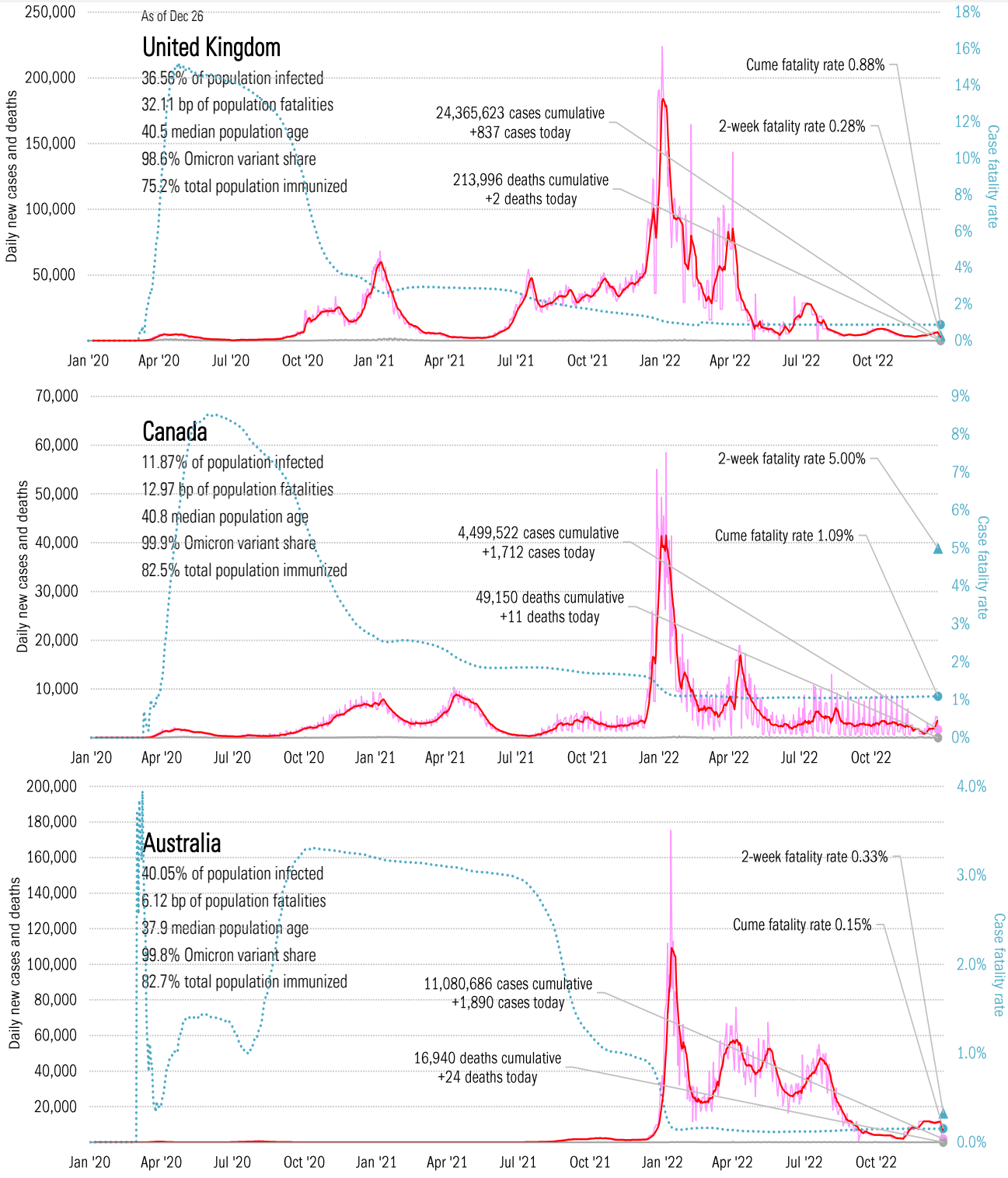
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

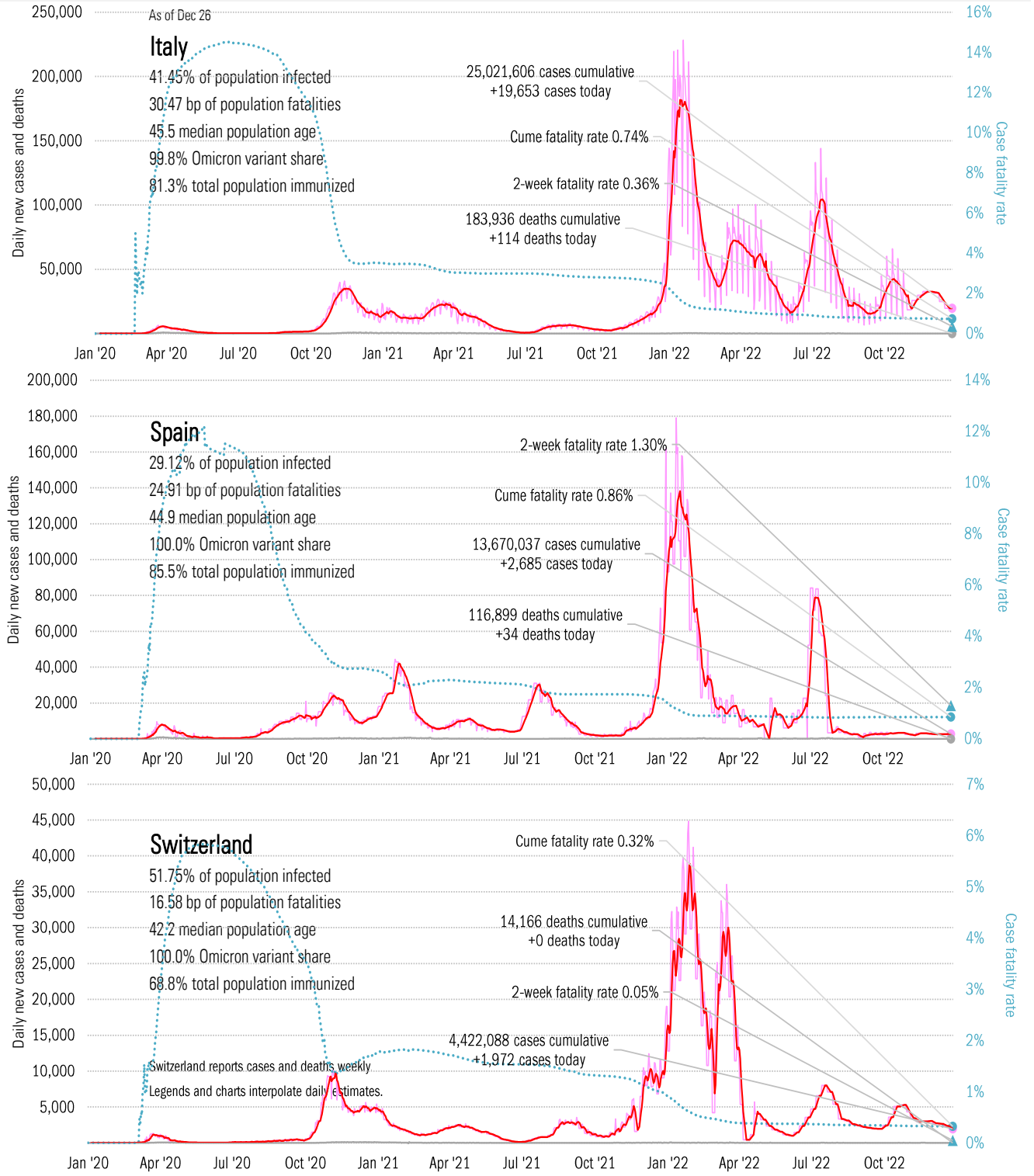
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

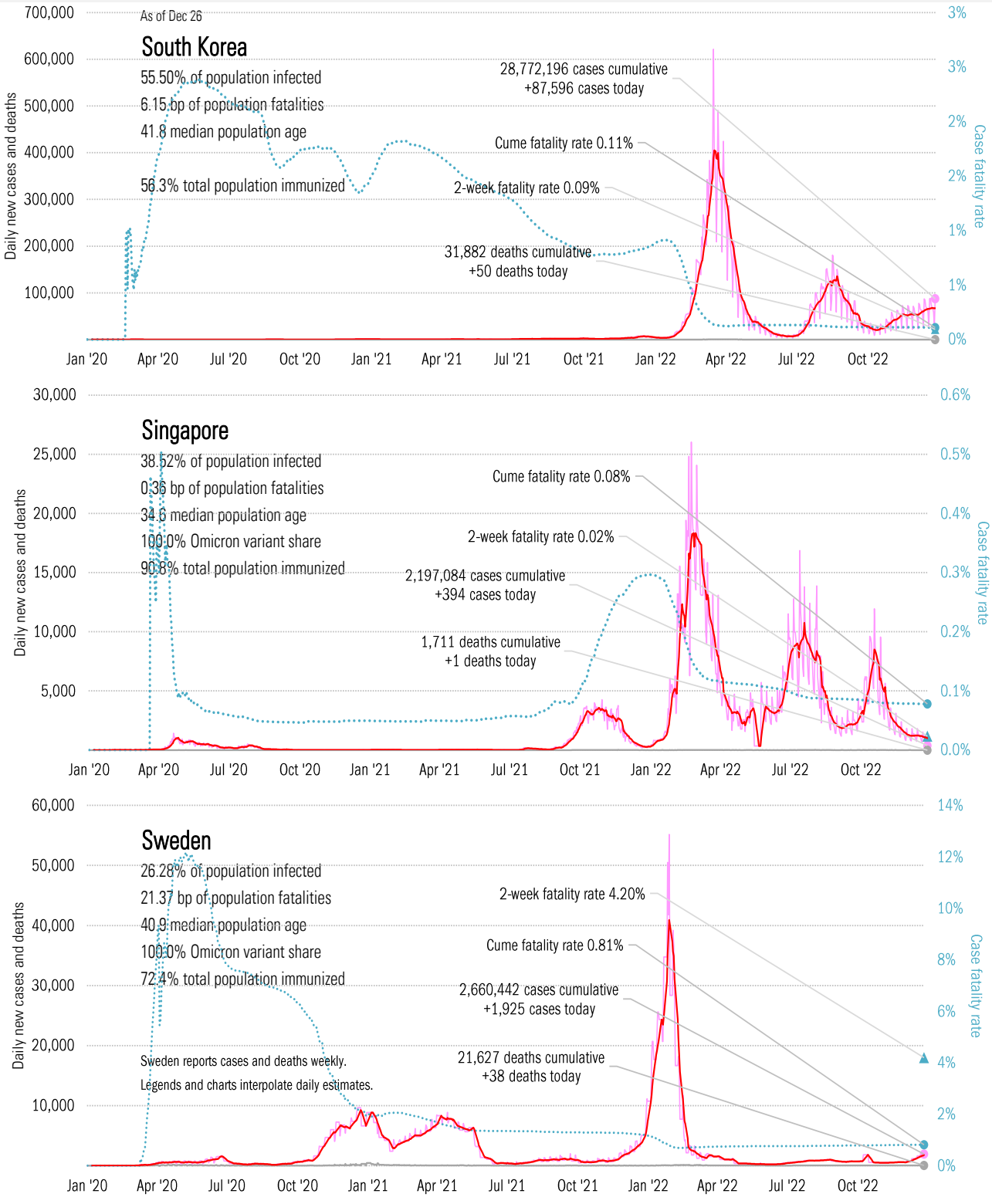
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

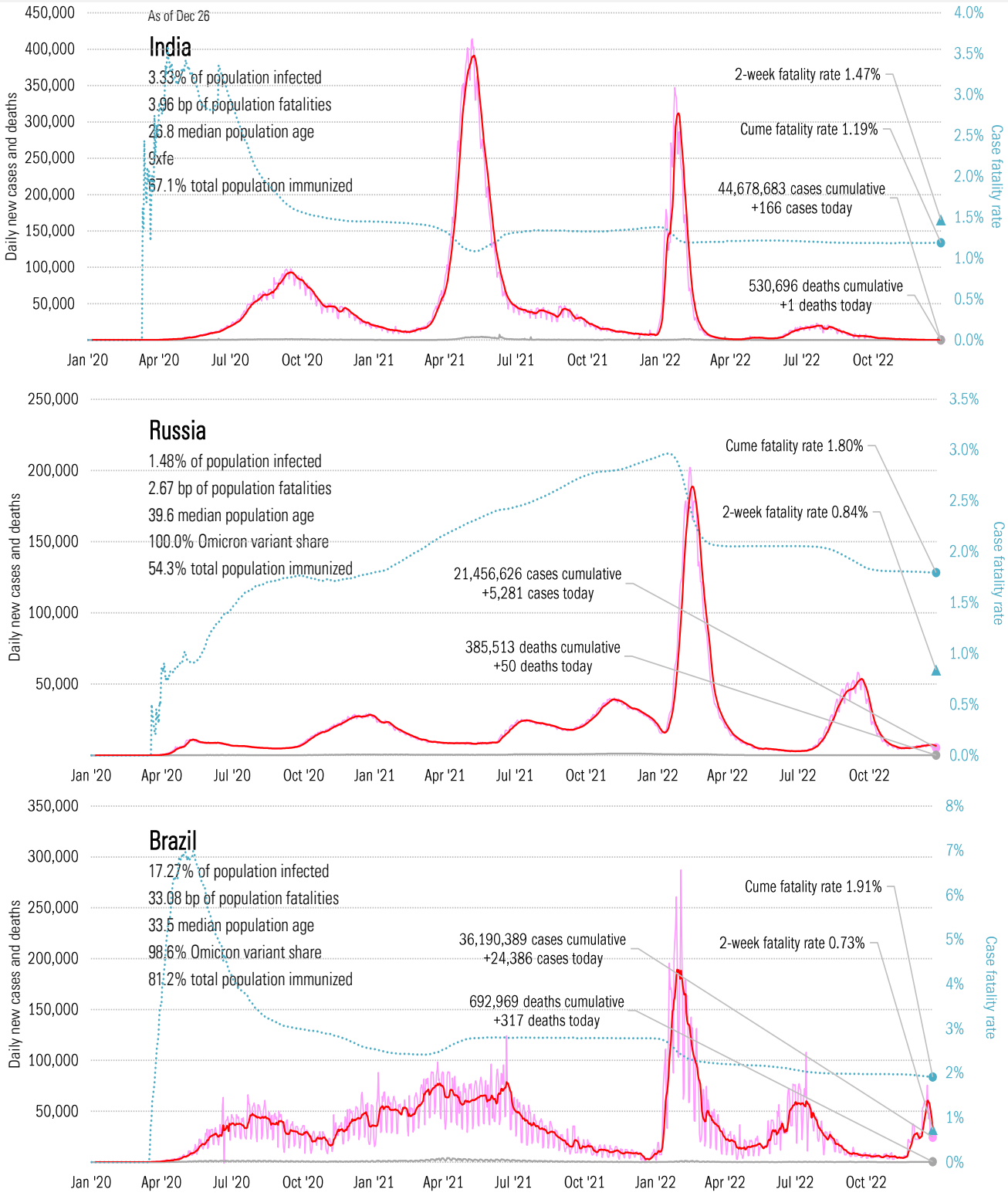
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

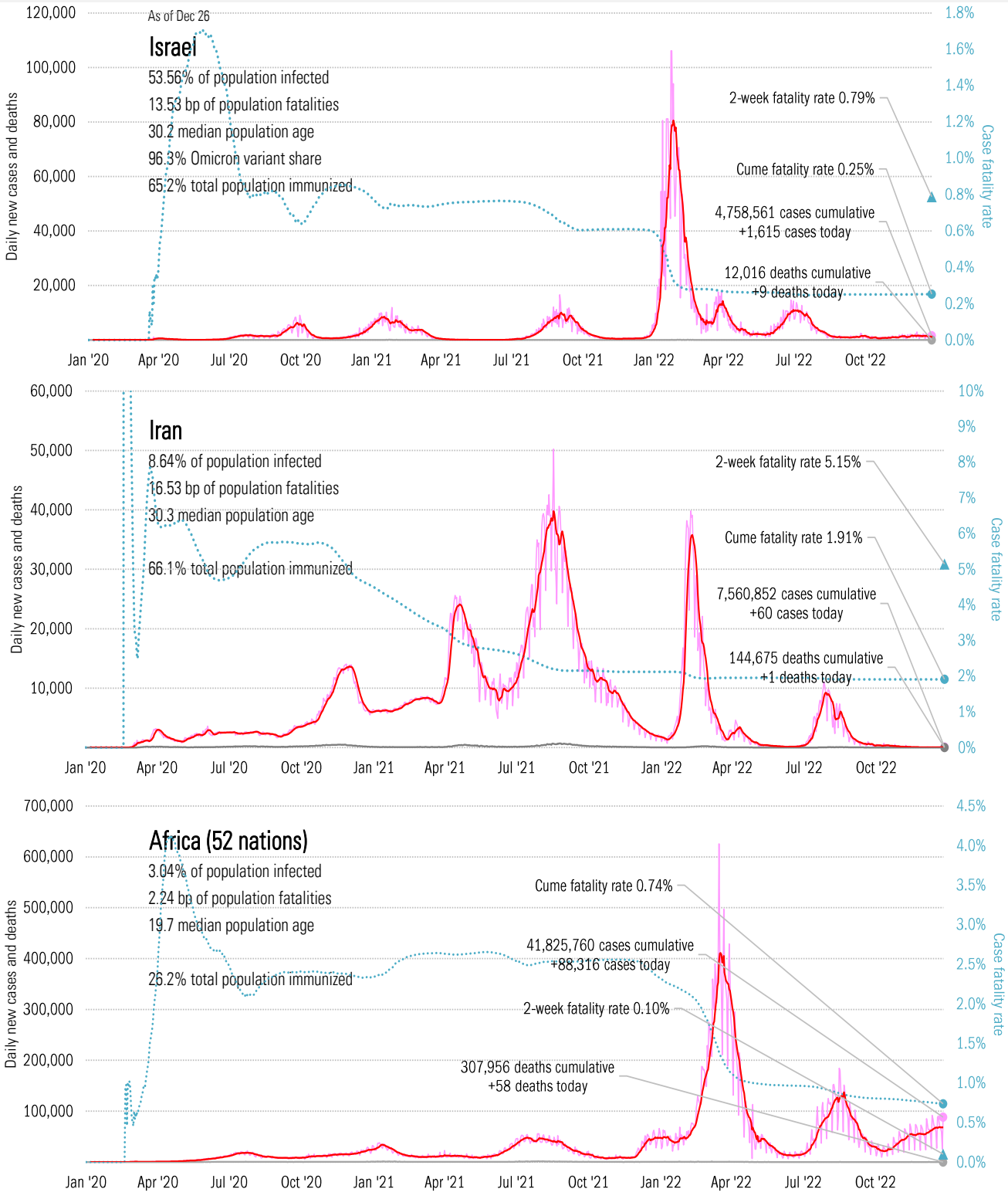
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

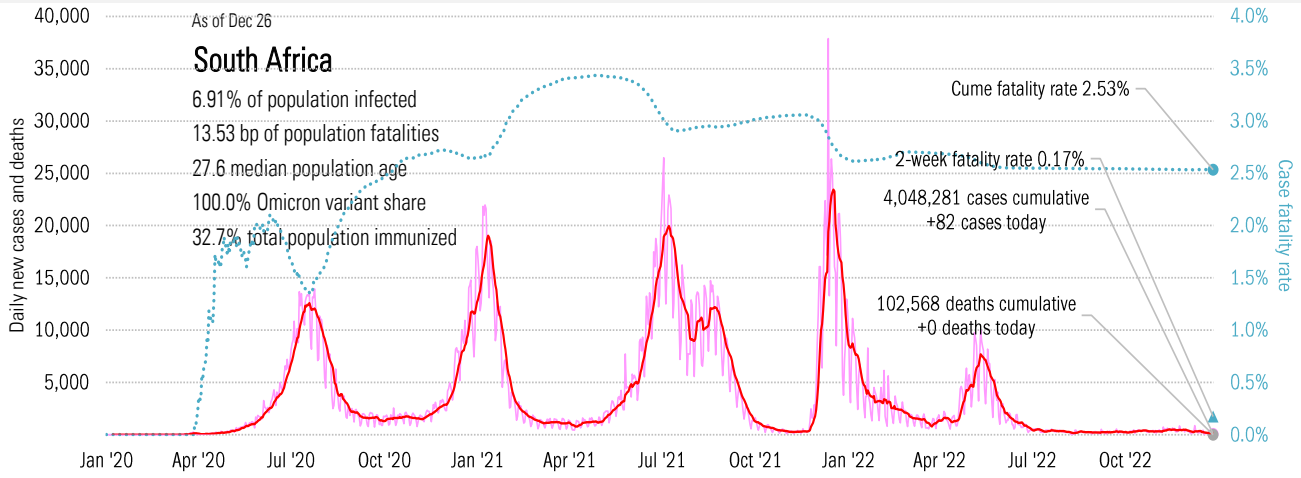
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations