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Data Insights: Covid-2019 Monitor

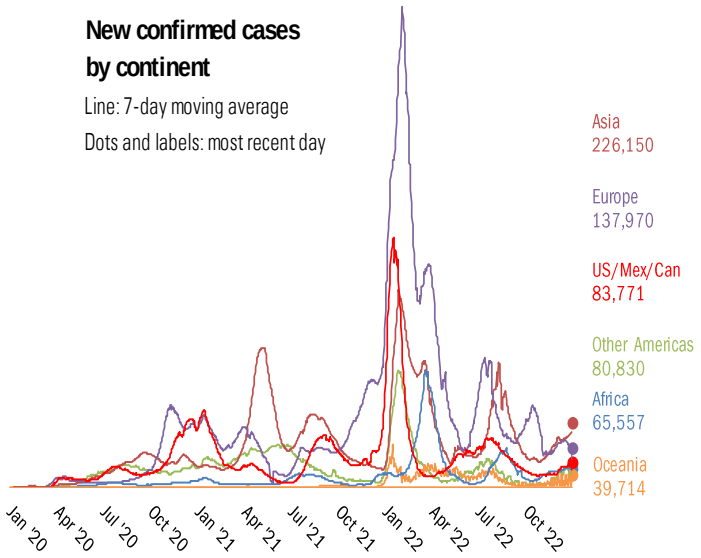
Friday, December 30, 2022

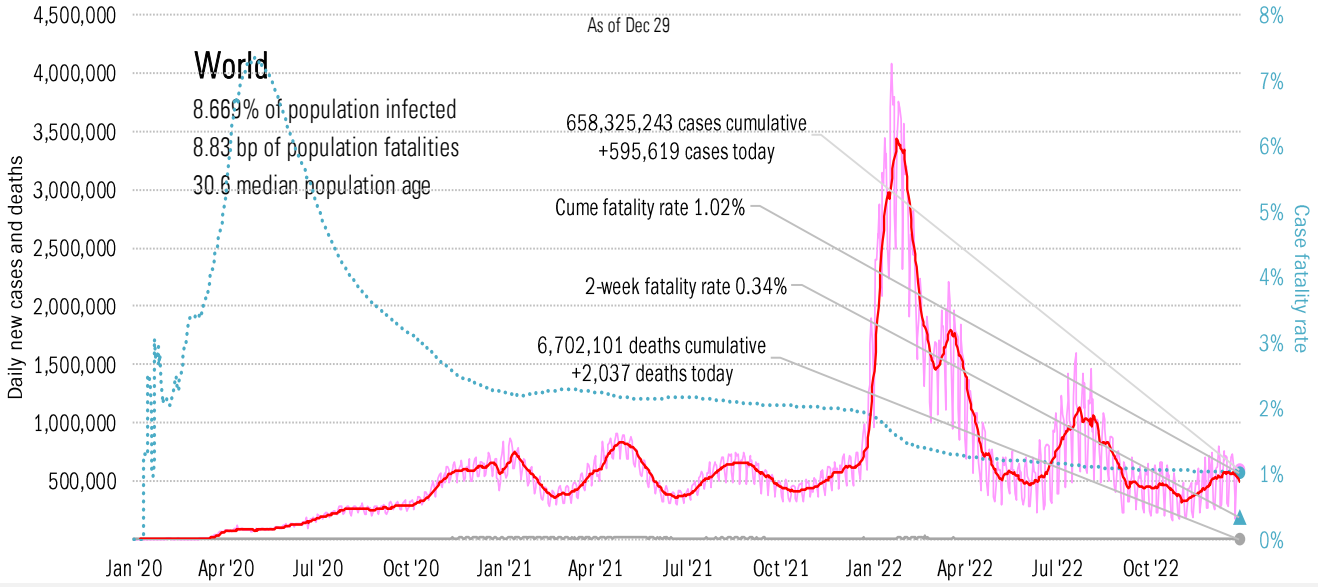
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	192,063	United States	554
Germany	73,539	Japan	420
United States	71,934	Germany	349
Korea, South	65,207	Brazil	172
Australia	39,695	France	132
Brazil	37,694	Italy	114
Taiwan*	27,940	Korea, South	68
France	24,715	Australia	63
Italy	19,653	Russia	56
Colombia	7,671	Chile	51
	560,111		1,979





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

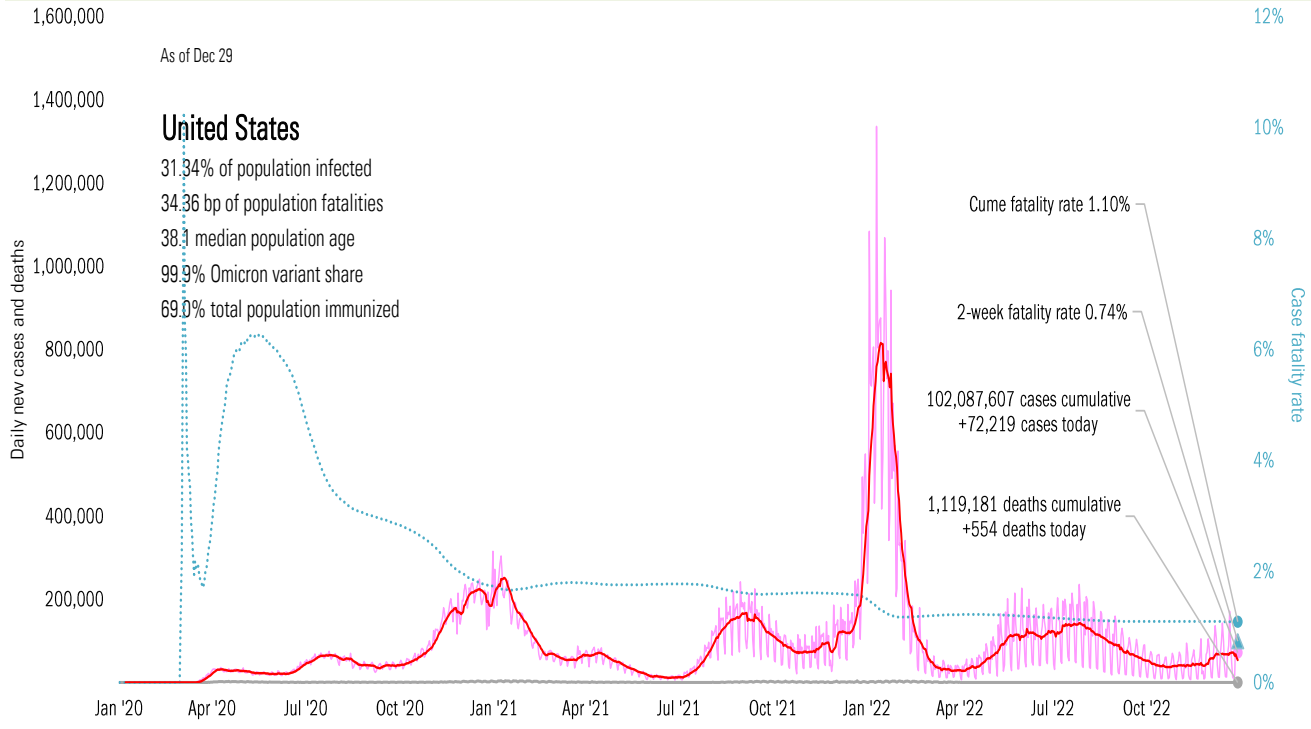
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	12,667	CA	158	TX	626	CA	11,820,487	CA	98,616	TX	567,435	RI	89%	VT	94%
FL	6,919	NY	74	FL	469	TX	8,226,520	TX	91,816	CA	540,580	NH	86%	TX	88%
NY	6,656	NV	46	NC	272	FL	7,338,503	FL	83,906	FL	513,025	WA	86%	NH	86%
NJ	3,456	FL	43	GA	250	NY	6,563,389	NY	75,078	NY	334,557	MA	86%	MA	85%
IL	3,348	NJ	27	CA	841	IL	3,966,544	PA	48,892	OH	235,238	OR	83%	NC	85%
TX	2,602	IL	24	CT	137	PA	3,416,142	GA	41,417	GA	233,996	MN	83%	AL	83%
VA	2,435	MA	21	NY	549	NC	3,316,814	OH	40,928	PA	219,976	AK	83%	WA	83%
NC	2,382	AZ	21	MA	213	OH	3,307,568	MI	40,767	IL	203,579	MO	82%	NM	83%
UT	2,247	TX	21	AL	125	MI	2,988,654	IL	40,657	MI	174,725	VT	81%	RI	83%
TN	1,913	NM	15	PA	270	GA	2,985,193	NJ	35,486	NJ	152,824	MI	80%	AK	82%
	44,625		449		3,752		53,929,814		597,563		3,175,935				
All states	72,219		554		6,934	All states	102,087,607		1,119,181		5,765,632	All states	70%		67%
Top ten	62%		81%		54%	Top ten	54%		55%		55%	Median	77%		76%

Some states not reporting

Five most improved US states

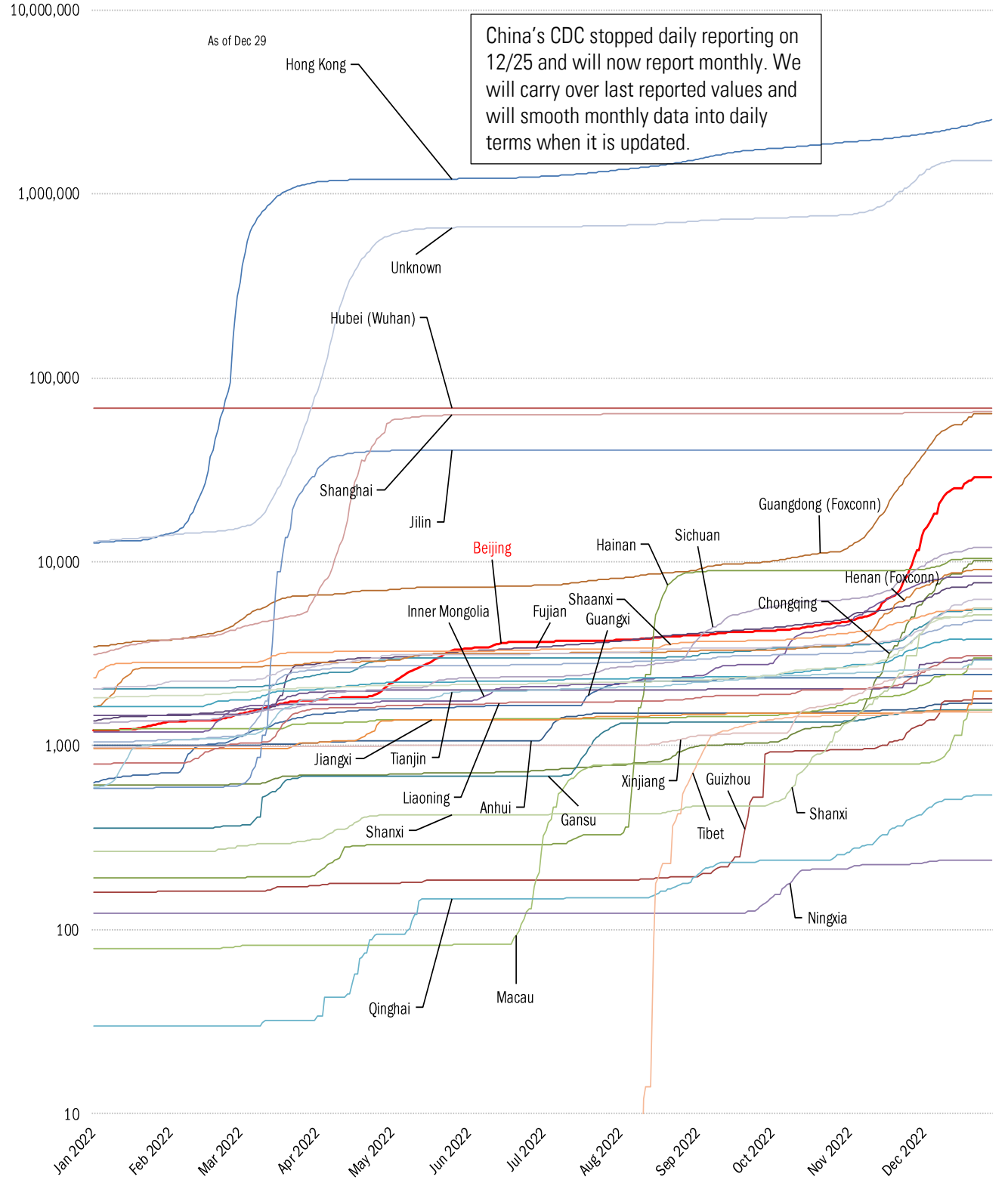
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
MD	-1,882	NY	-37	WI	-44
TX	-1,385	CO	-15	MN	-42
CT	-411	TX	-11	TN	-42
ME	-153	VA	-6	OH	-39
CO	-58	IA	-4	IN	-29



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

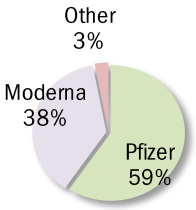
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	680,393,511				+0.244 million
				Of which boosters:	+0.214 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	276,758,611	83%	235,944,128	71%	+0.021 million
Age 12 to 17	18,413,123	73%	15,763,488	62%	+0.001 million
Age 18 to 64	184,058,504	90%	156,476,533	77%	+0.013 million
Age 65 and over	60,960,848	100%	53,388,685	97%	+0.004 million

Immunity	Full	Partial
US	69.0%	80.8%
UK	75.2%	79.7%
France	78.4%	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	27.5%	33.5%
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

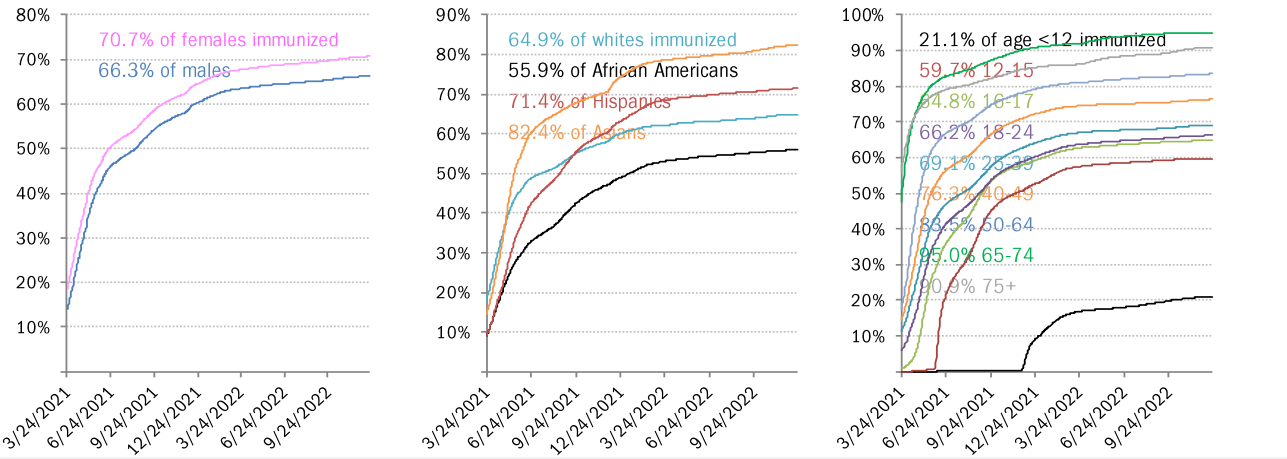
"Immunity" = two doses

Best
Middle
Worst

As of Dec 30

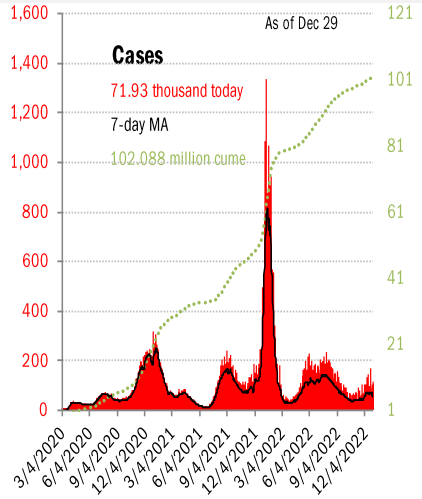
AK					WI					ME
72.8%					74.9%					95.0%
64.9%					68.0%					83.0%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
84.9%	63.7%	68.0%	69.1%	78.5%	78.9%	69.3%		94.1%	95.0%	87.5%
75.7%	56.3%	59.0%	58.4%	71.9%	71.0%	62.2%		80.5%	85.3%	71.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.2%	77.3%	60.7%	83.4%	70.4%	64.2%	65.5%	90.1%	94.3%	95.0%	
72.1%	63.5%	52.9%	66.0%	64.2%	57.6%	60.3%	72.9%	78.8%	83.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
84.3%	75.0%	83.3%	73.1%	69.1%	68.6%	67.3%	90.6%	91.3%	95.0%	95.0%
74.4%	66.5%	73.2%	66.0%	58.8%	59.4%	59.6%	76.3%	79.4%	82.8%	87.4%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	77.1%	93.8%	75.9%	69.6%	64.3%	91.6%	70.7%	95.0%	87.7%	
	65.8%	74.9%	65.0%	56.7%	56.2%	66.8%	59.7%	85.3%	72.9%	
			OK	LA	MS	AL	GA			
			74.3%	62.7%	61.5%	64.8%	68.1%			
			60.2%	54.9%	53.6%	53.0%	57.1%			
HI			TX					FL		PR
91.1%			76.0%					82.1%		95.0%
81.3%			63.0%					69.2%		86.7%

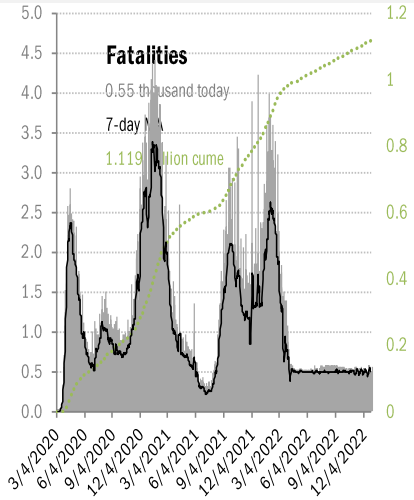
The demographics of US vaccination

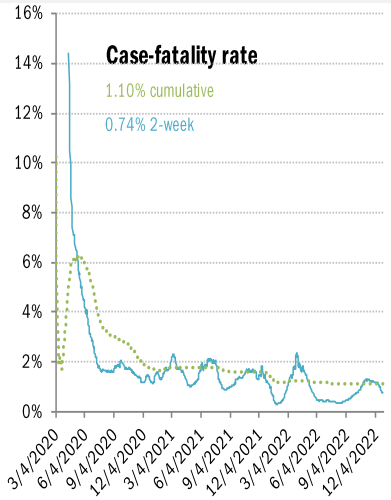


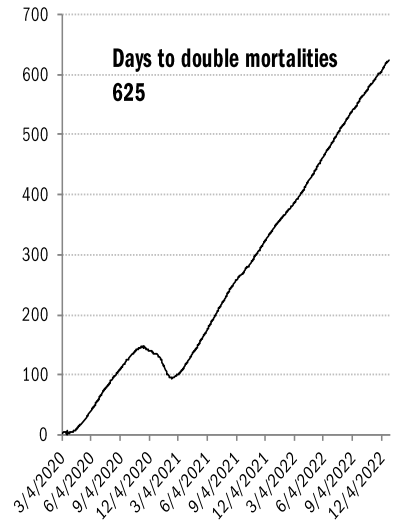
Source: CDC, CDC, Our World in Data, TrendMacro calculations

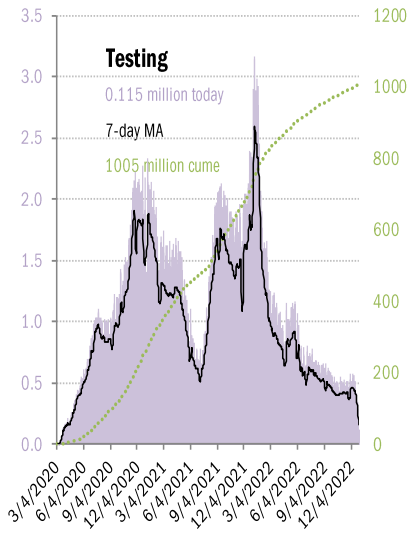
US deep-dive

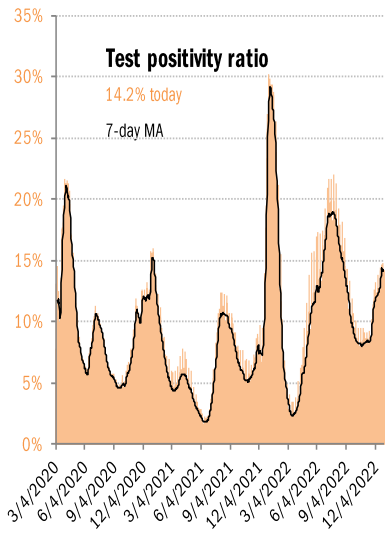


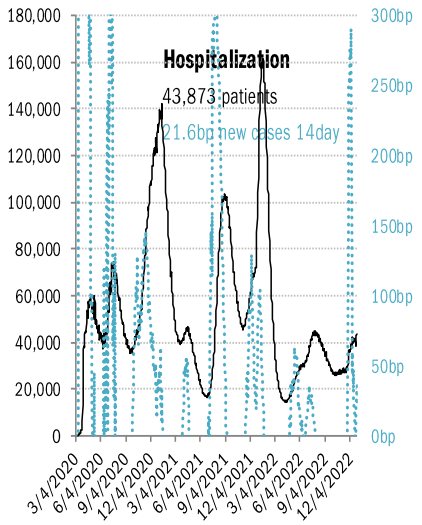


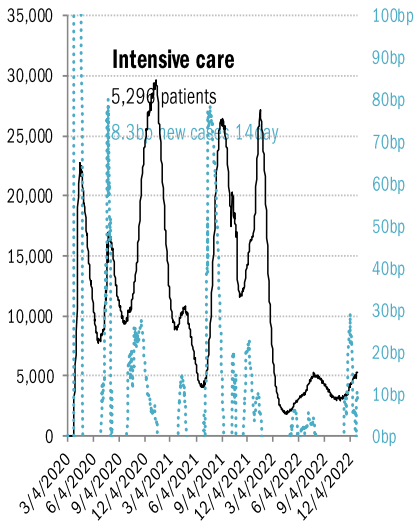


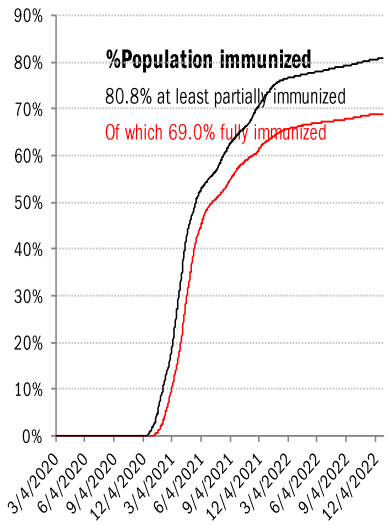










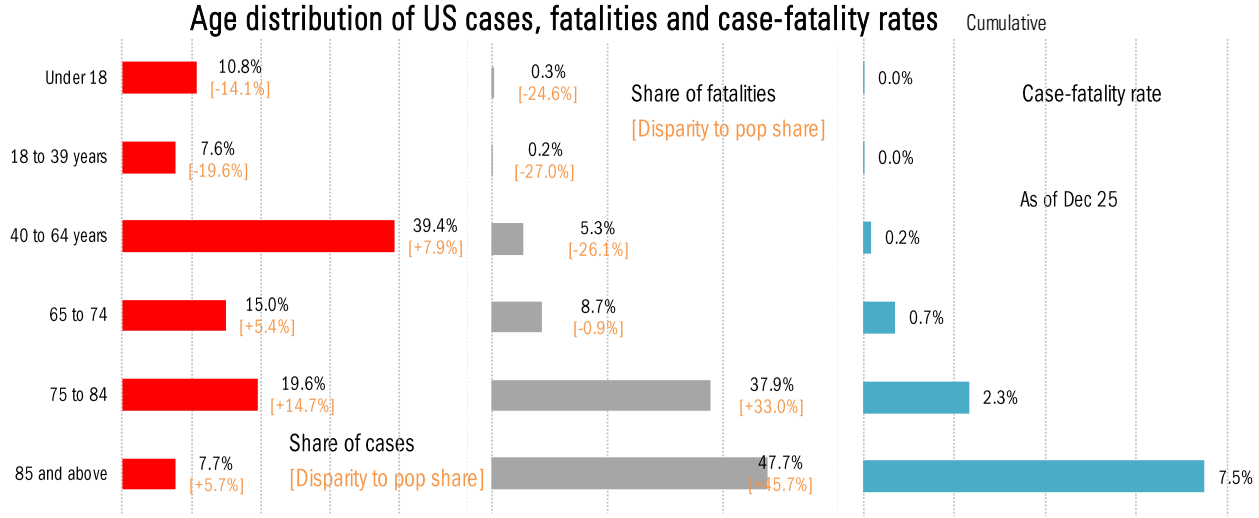


Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

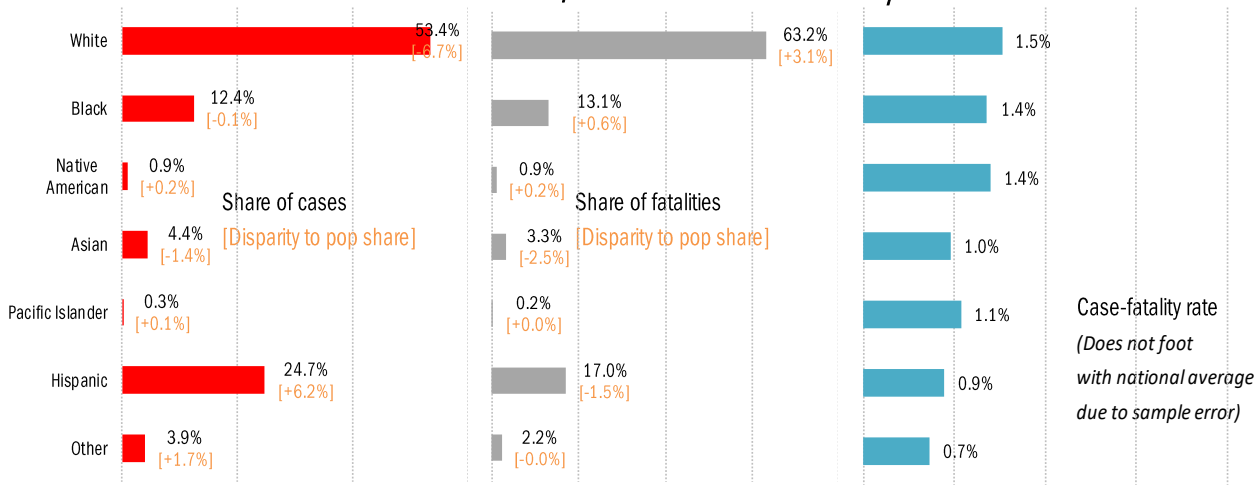
US deep-dive: demographics of age, race and health

Updates weekly on Sunday, 1 week lag

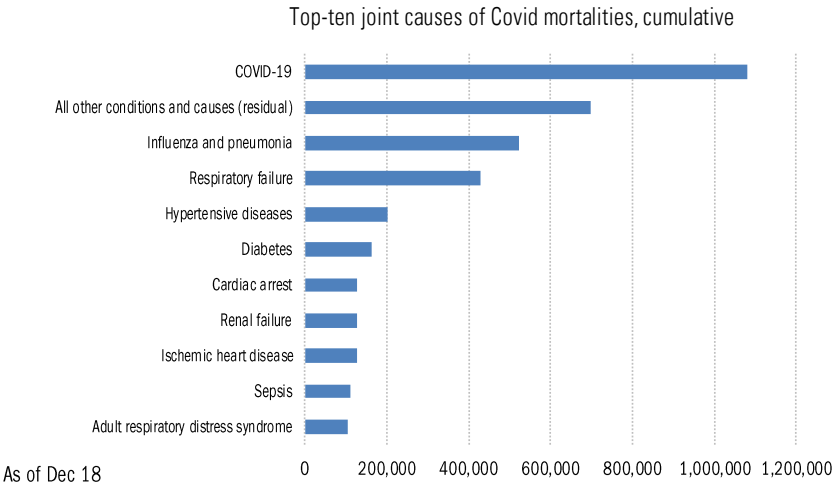
Age distribution of US cases, fatalities and case-fatality rates



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

When Will Academia Account for Its Covid Failures?
Scott Atlas
Wall Street Journal
December 29, 2022

After Half a Century, Fauci Prepares for Life After Government
Sheryl Gay Stolberg
New York Times
December 29, 2022

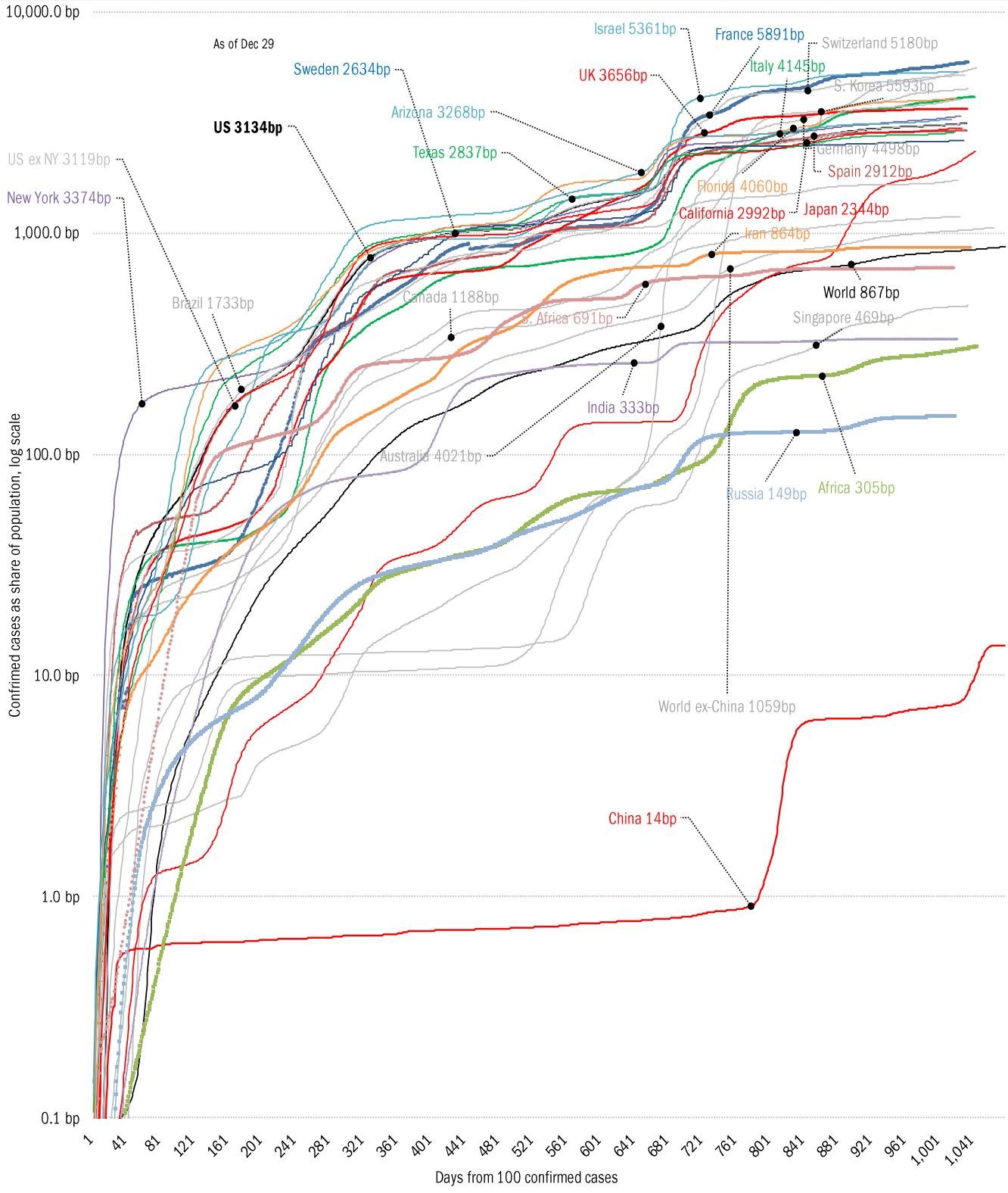
How Bad Is China's Covid Outbreak? It's a Scientific Guessing Game.
Alexandra Stevenson and Benjamin Mueller
New York Times
December 29, 2022

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

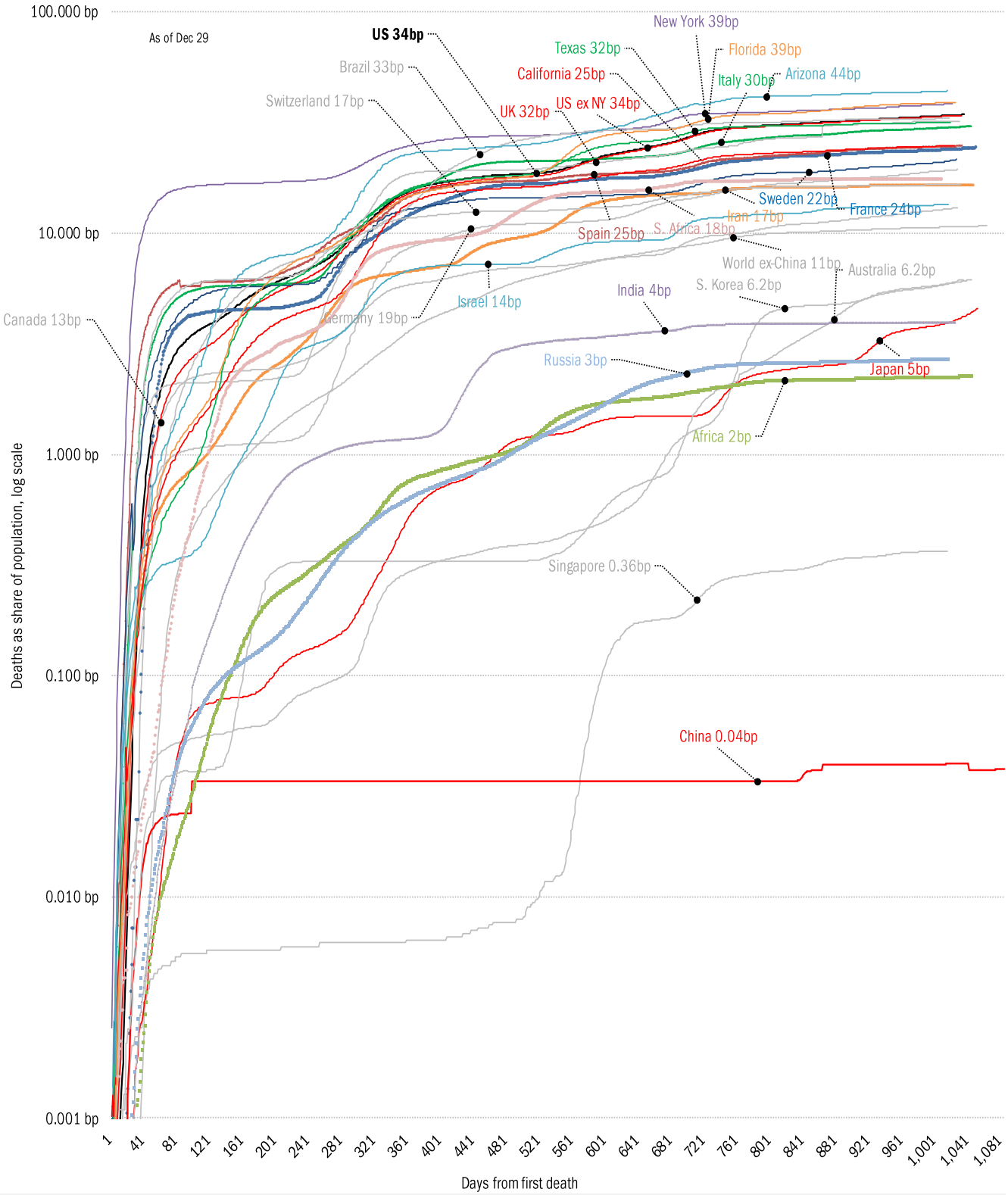
Share of infected population from first day with 100 confirmed cases, log scale



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

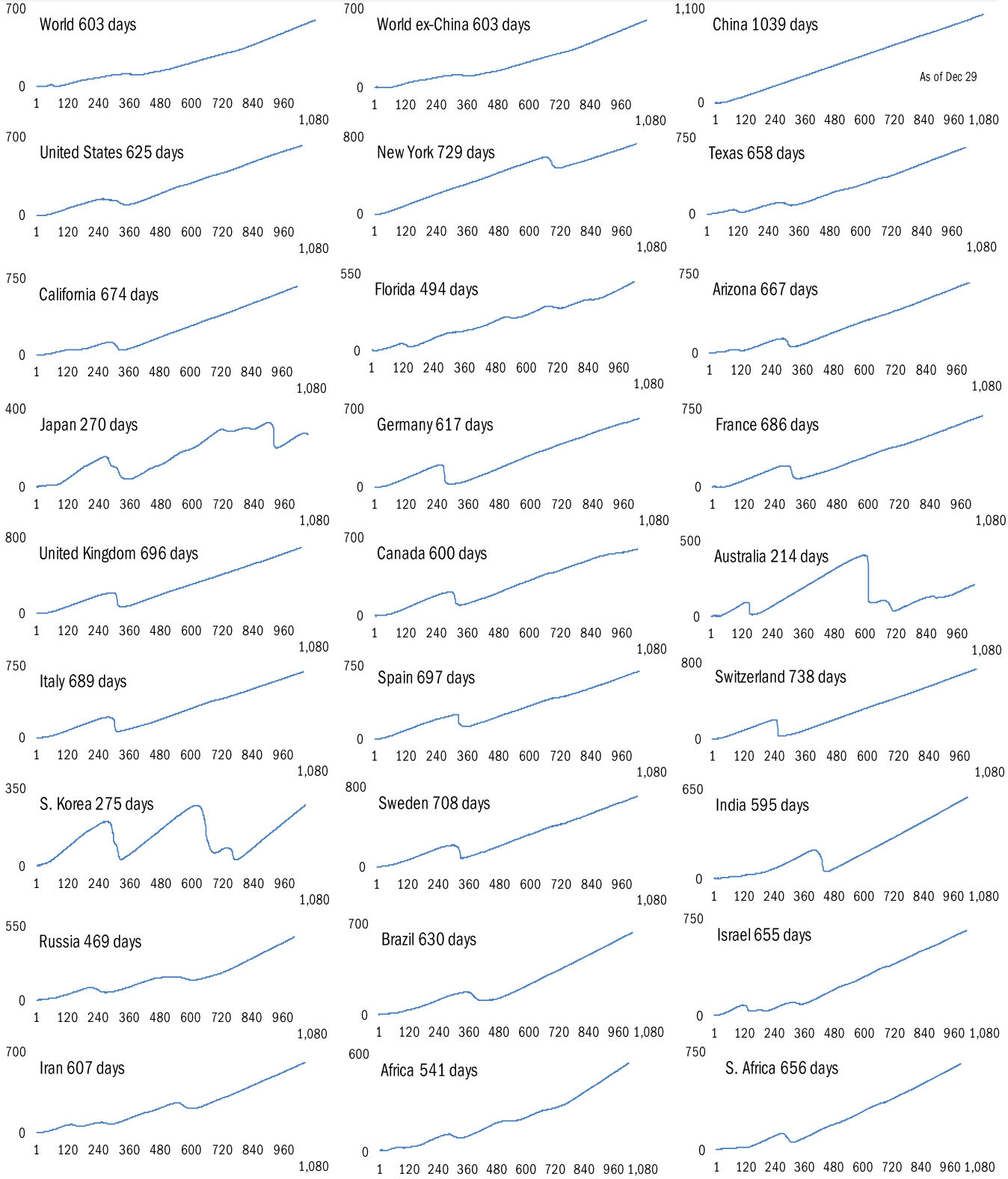


Source: Johns Hopkins, TrendMacro calculations

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

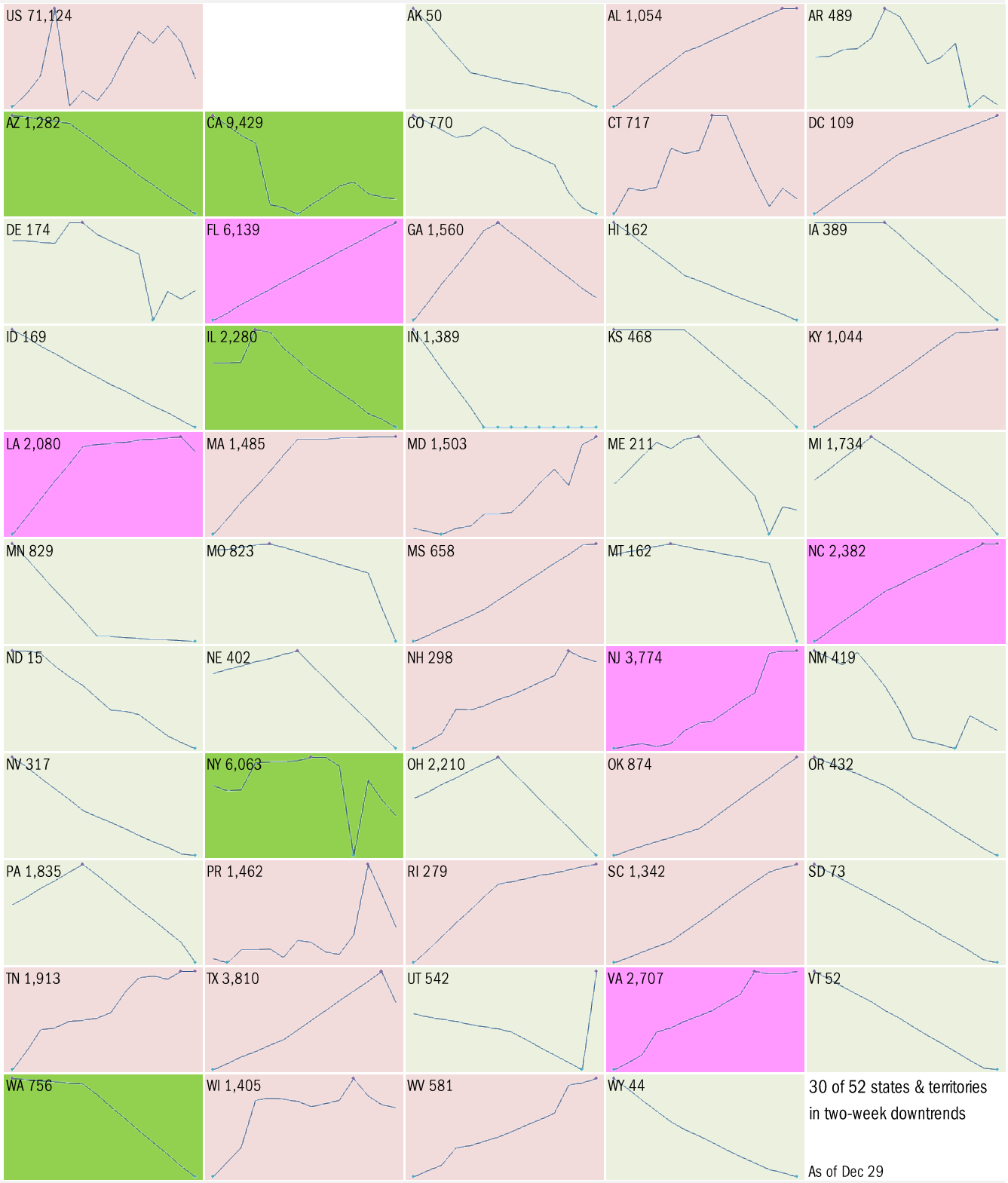


Source: Johns Hopkins, TrendMacro calculations

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

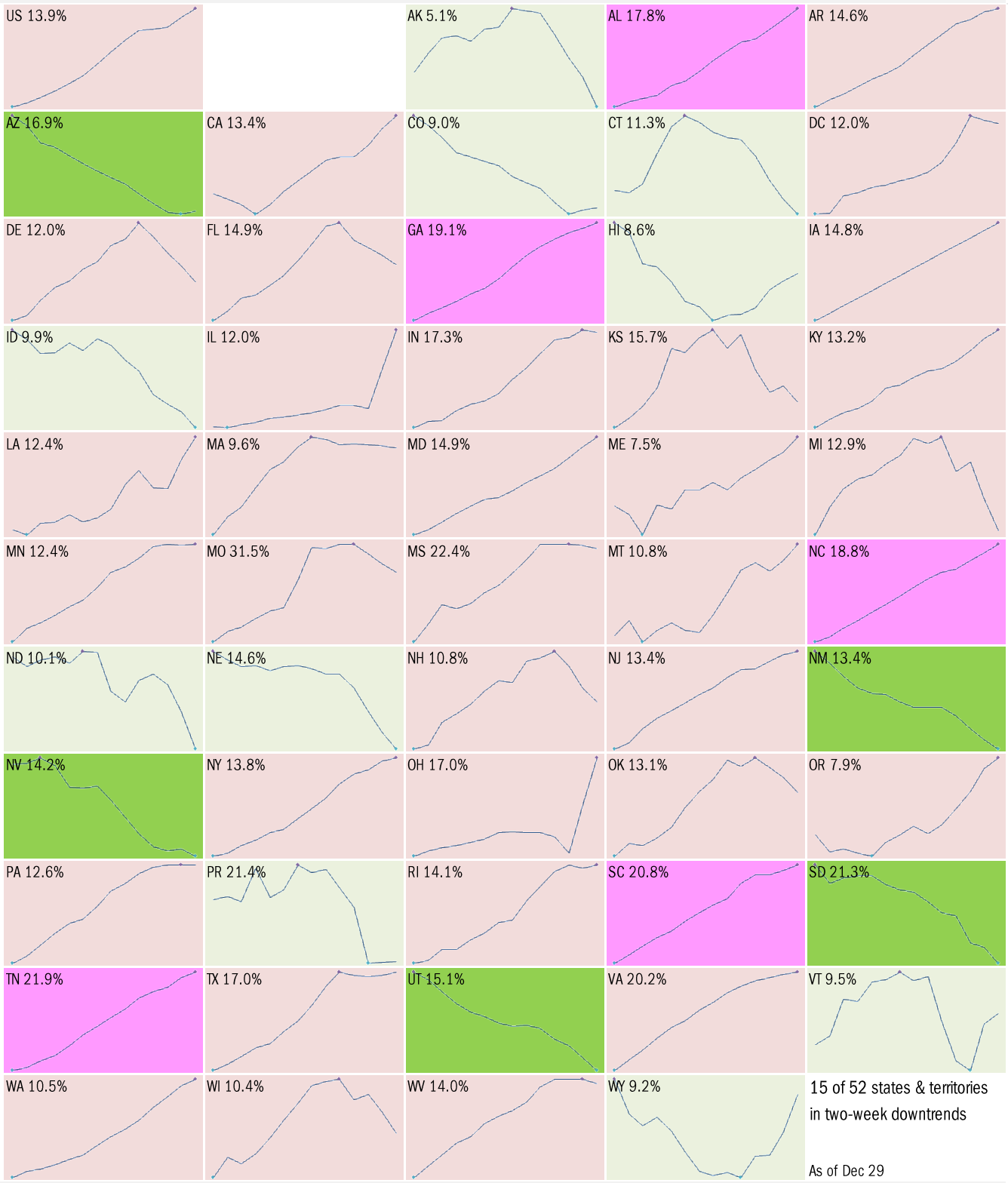


Source: Johns Hopkins, TrendMacro calculations

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

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

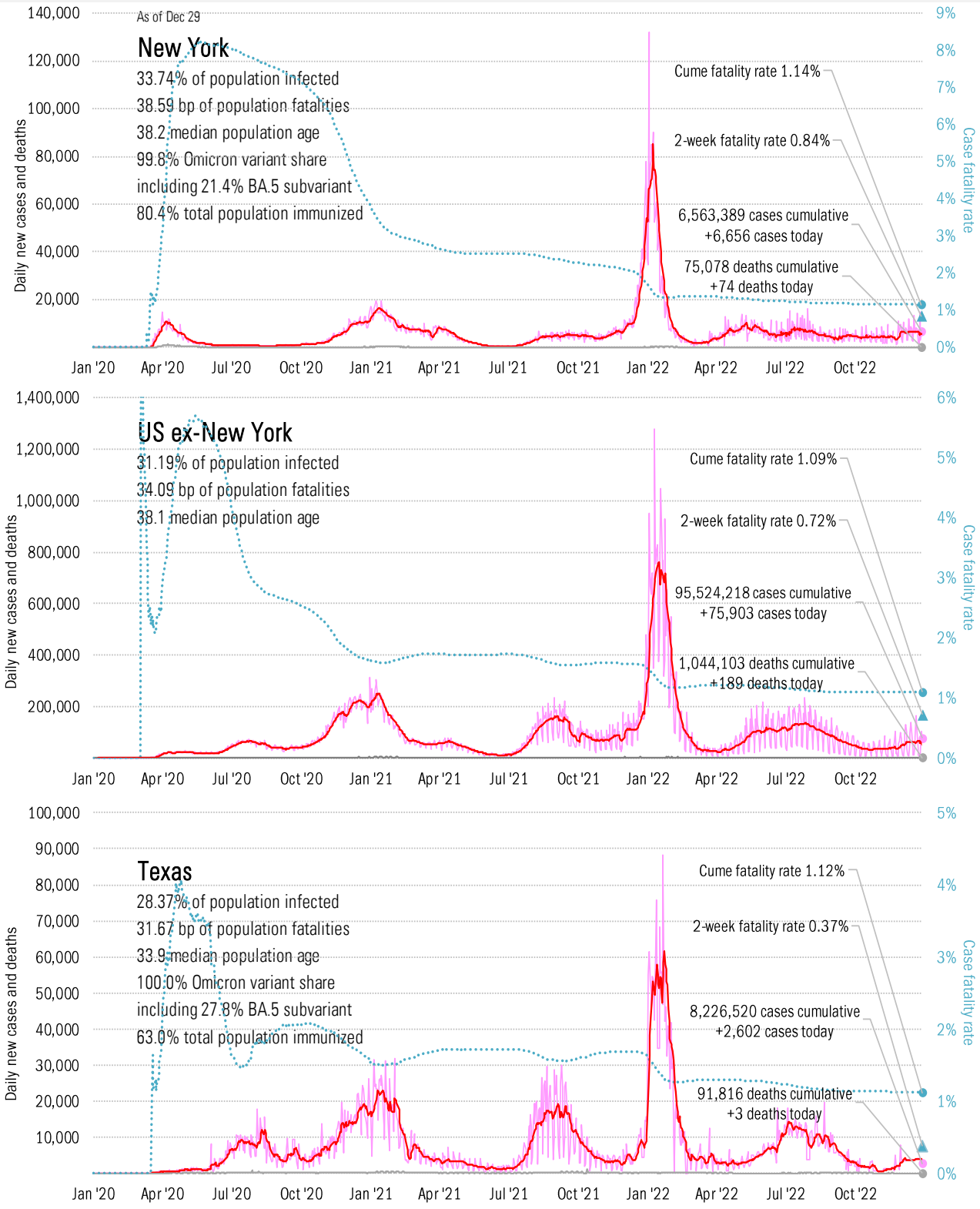
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

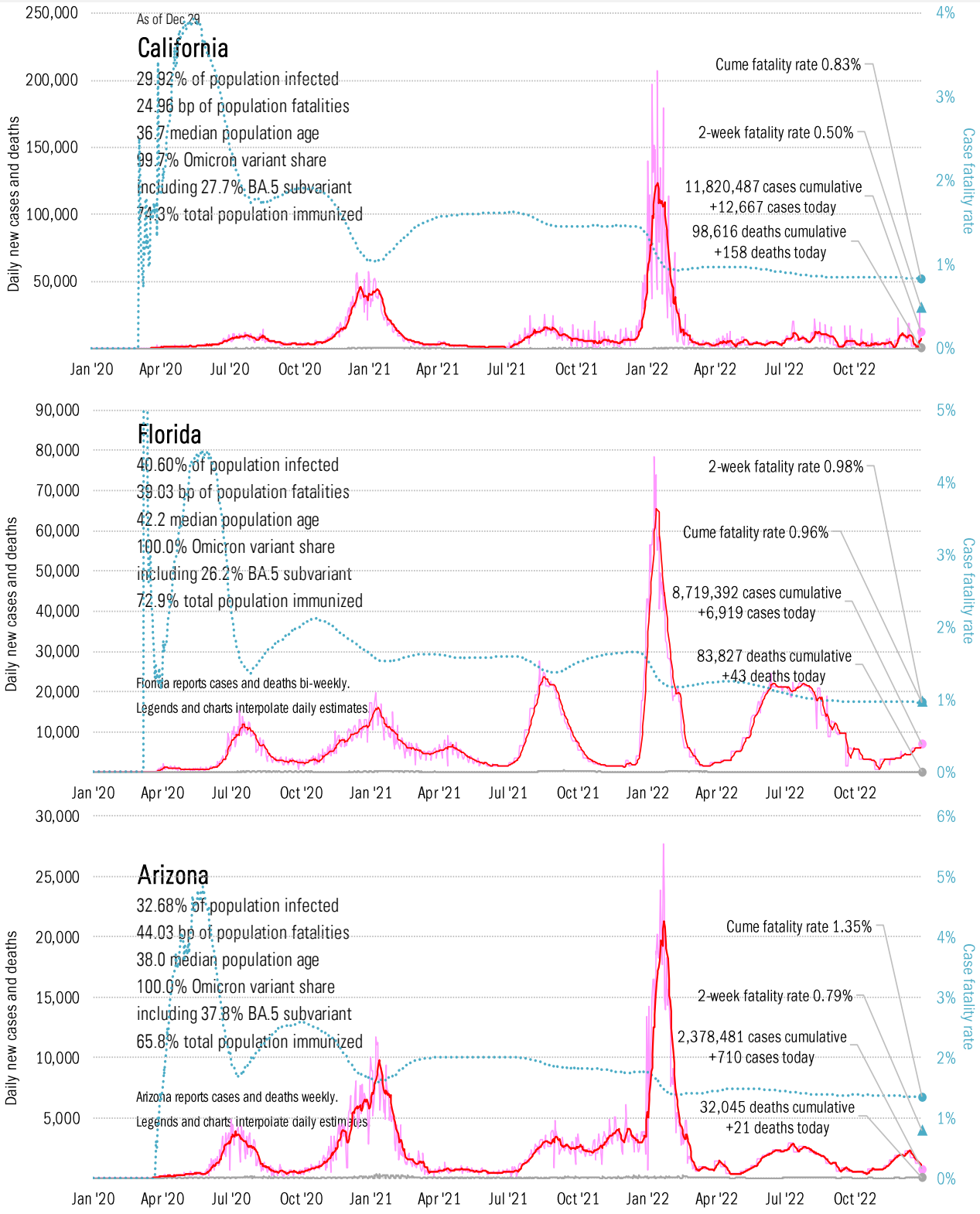
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

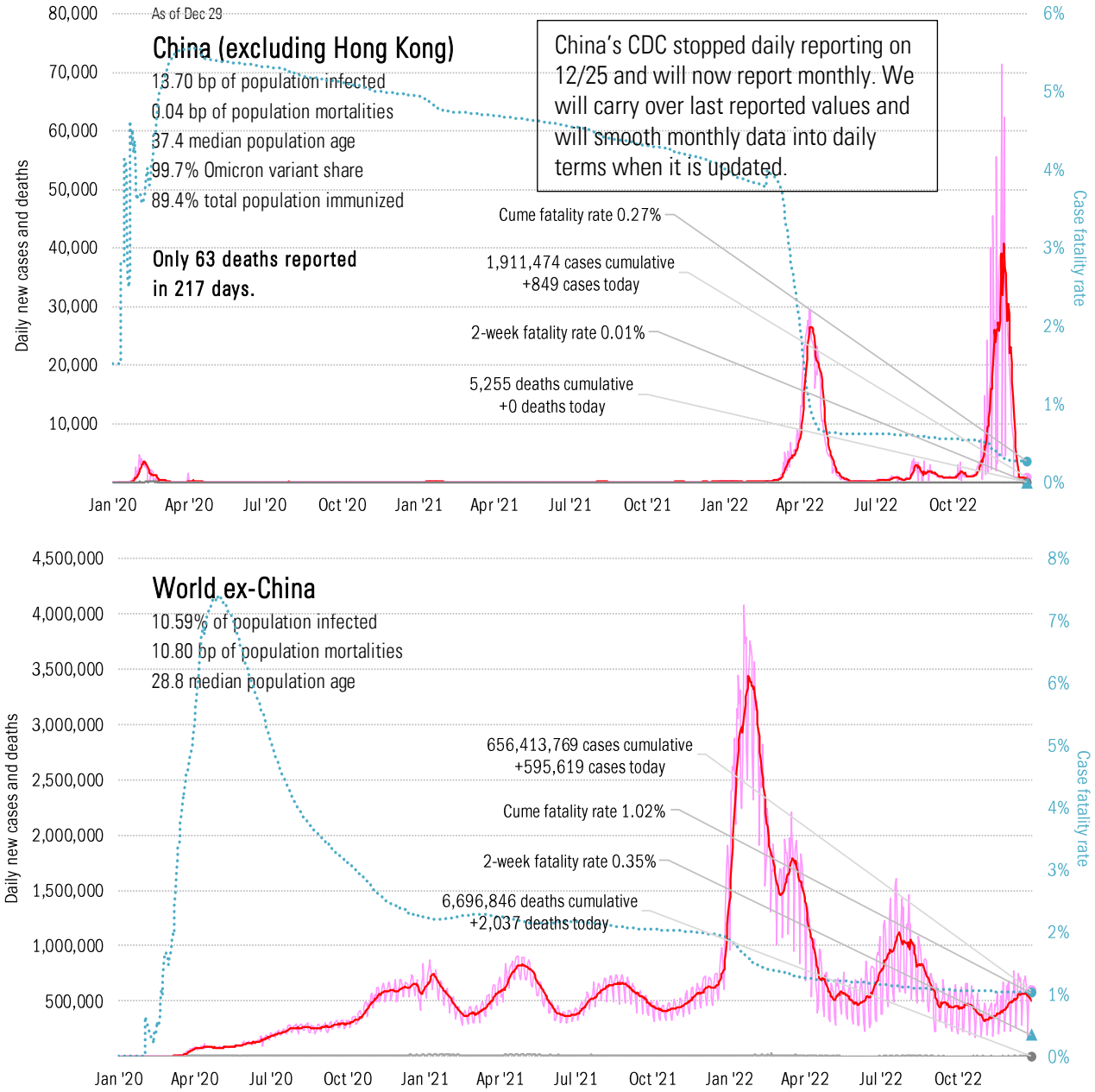
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

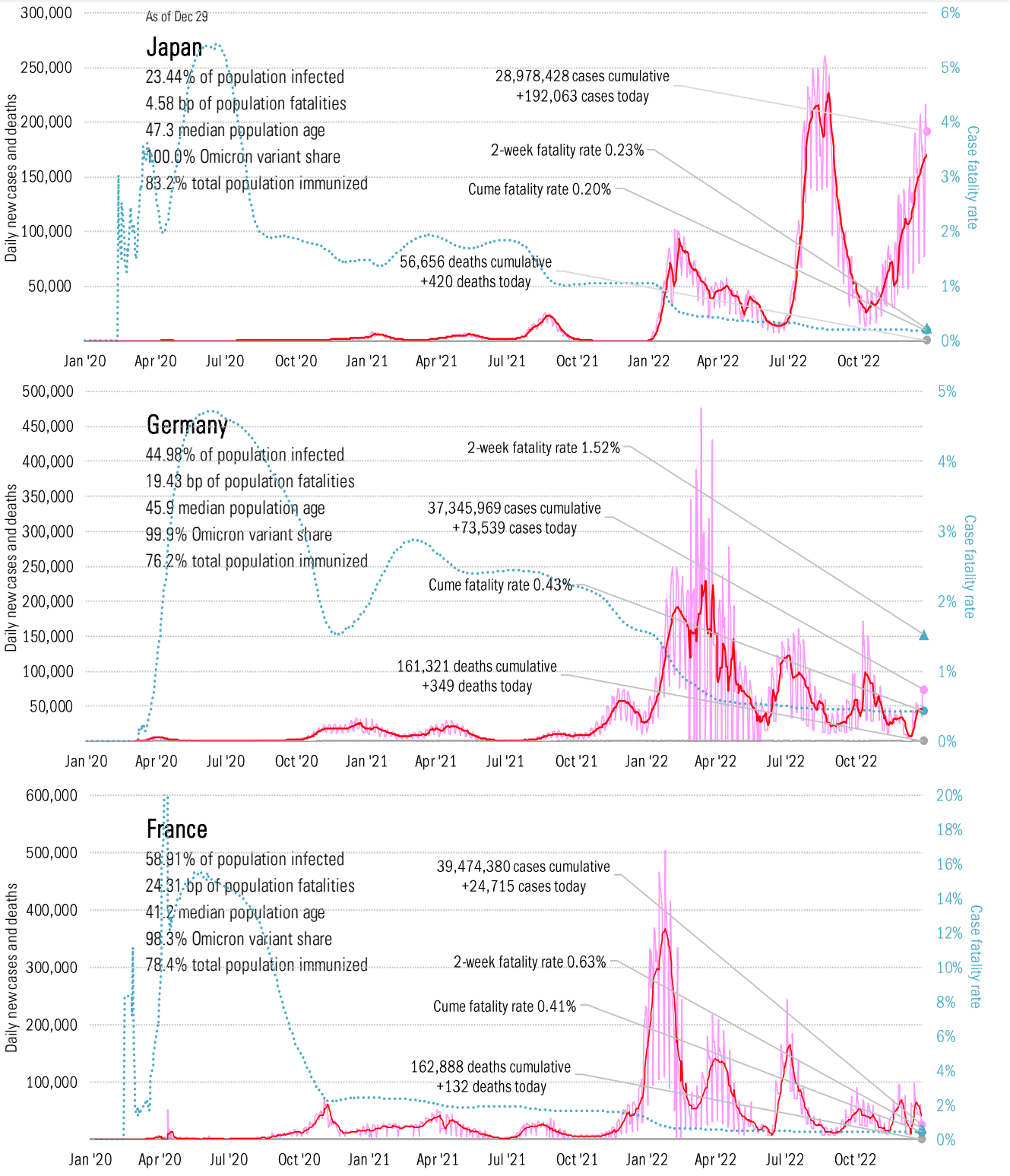
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

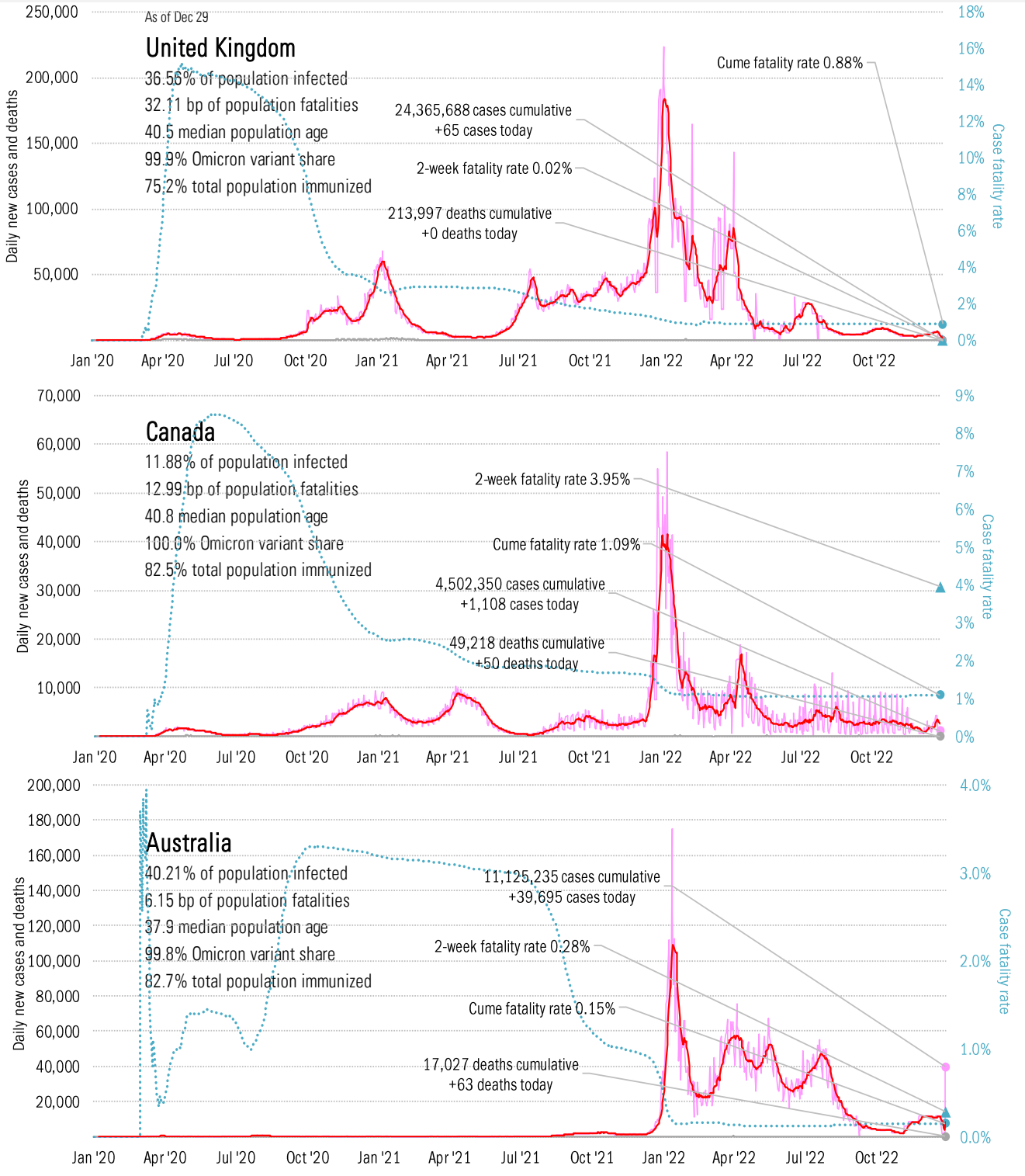
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

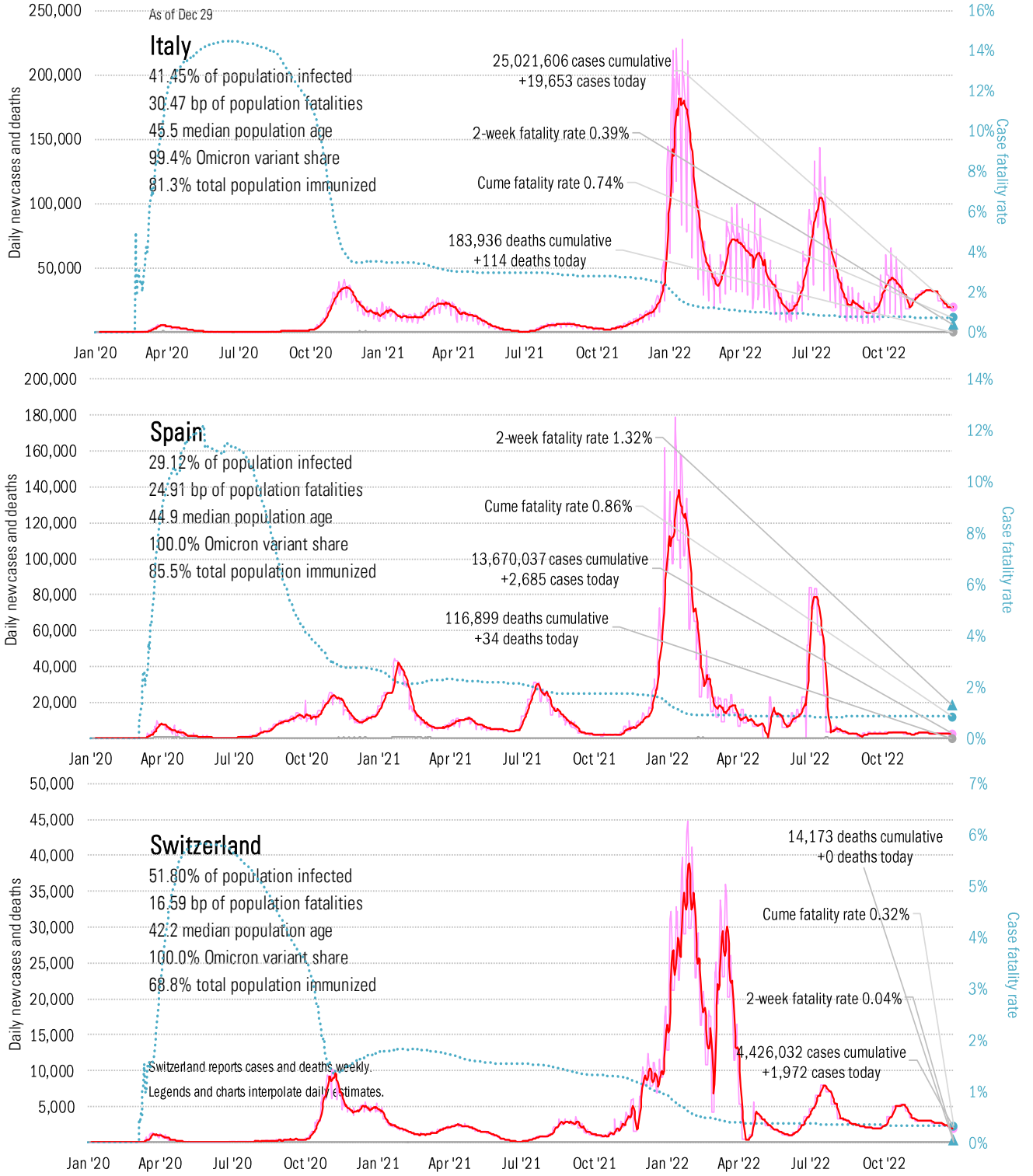
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

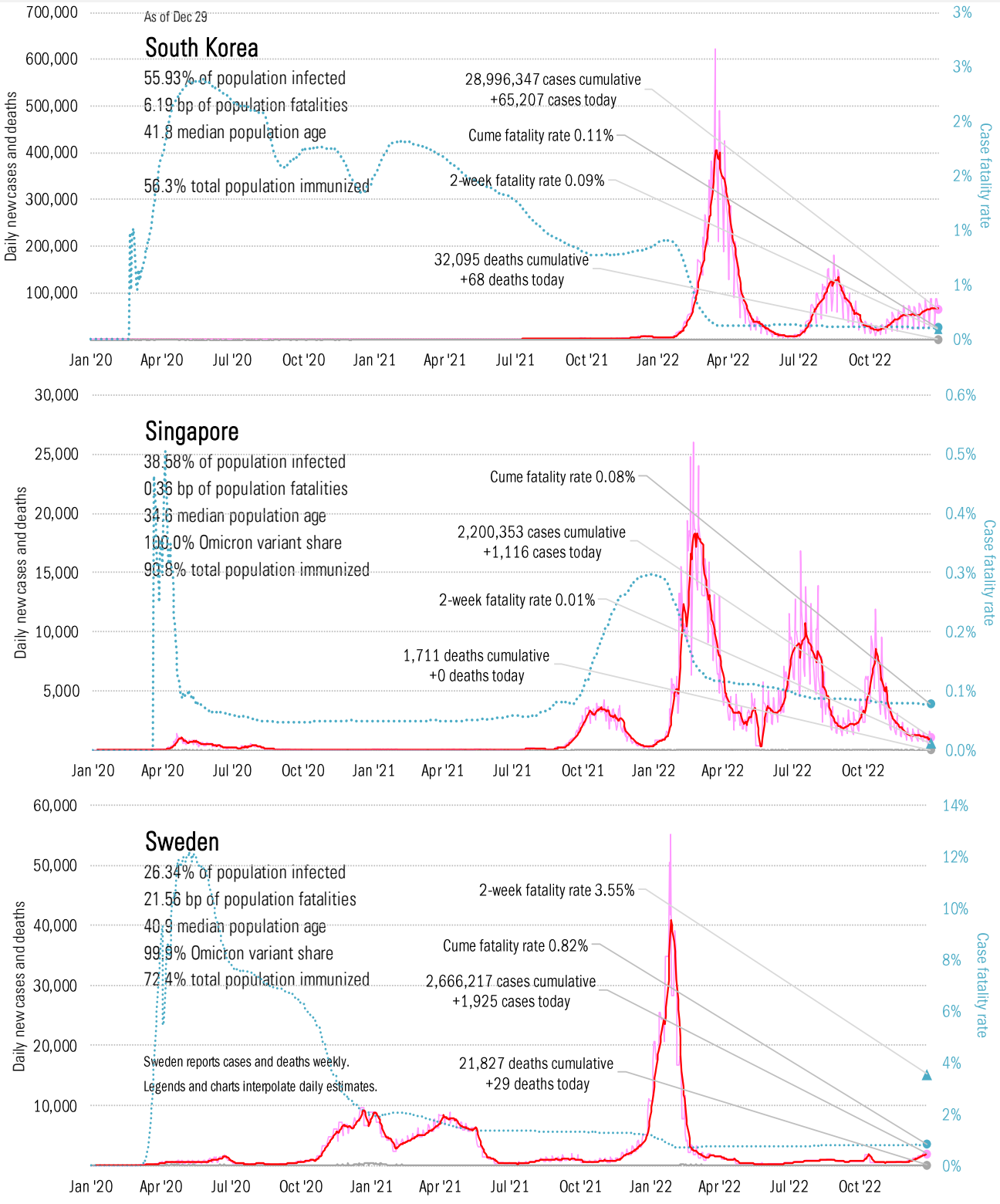
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

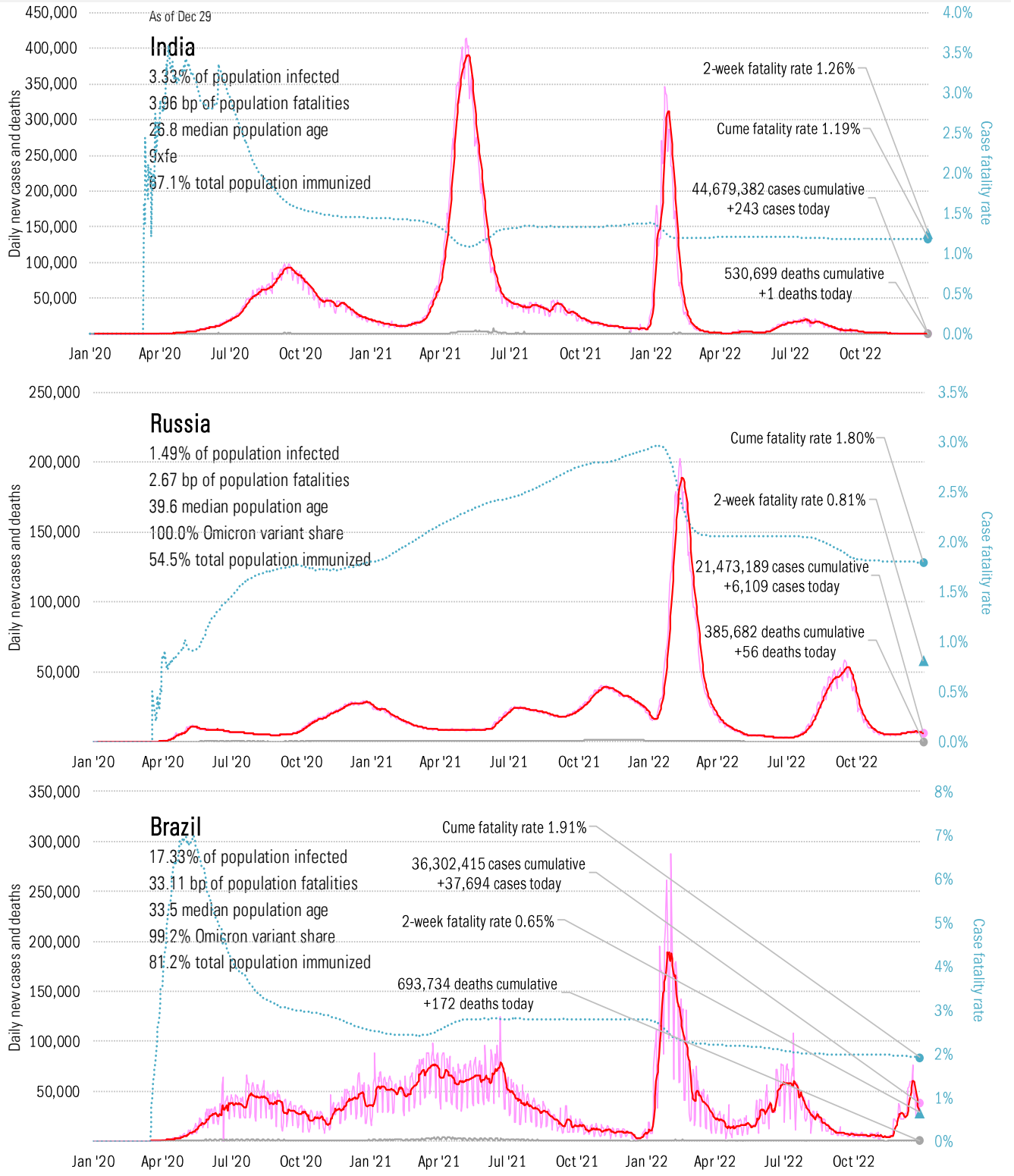
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

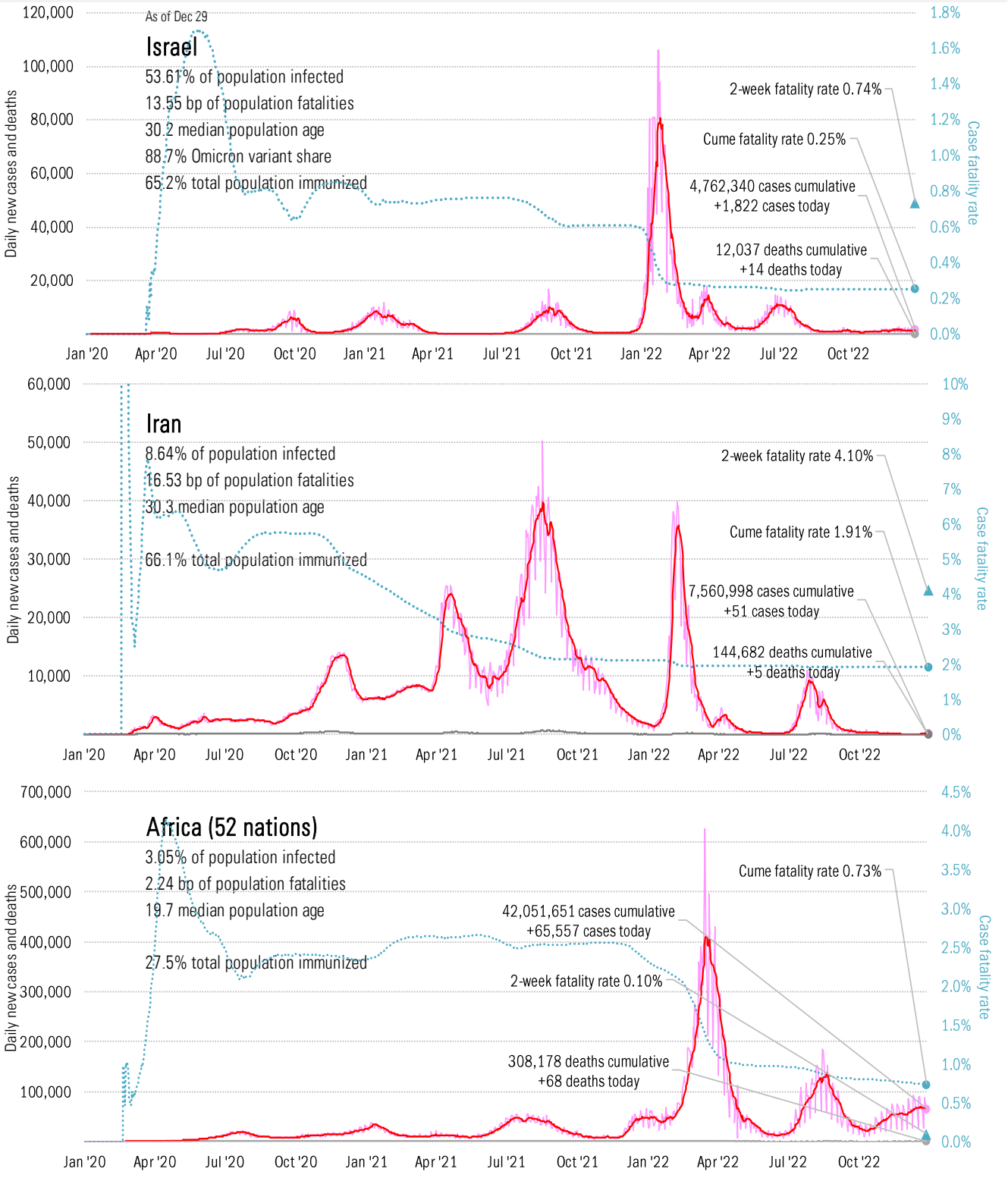
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

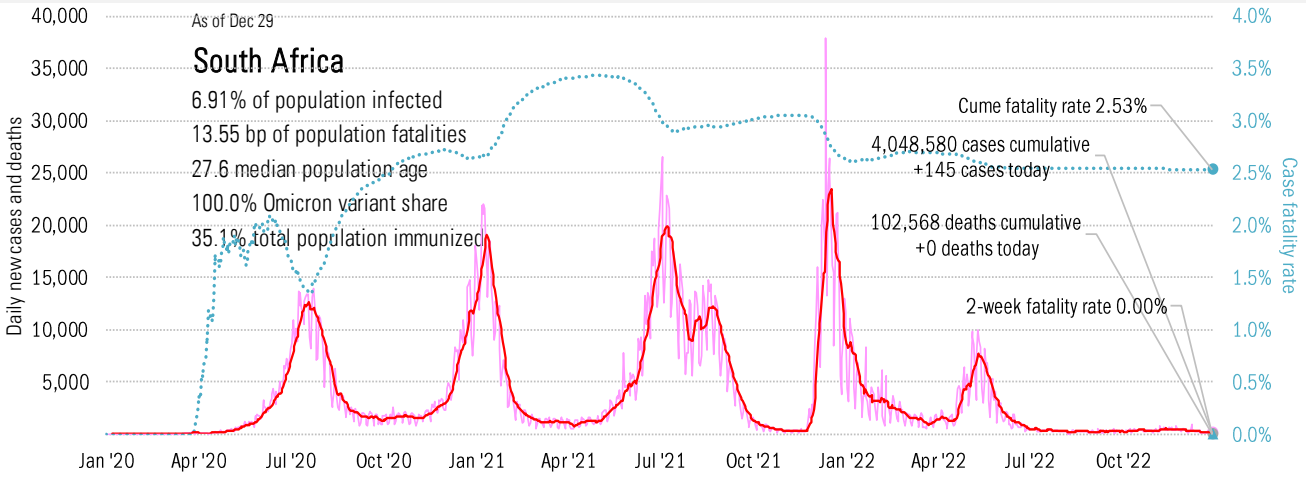
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations