Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

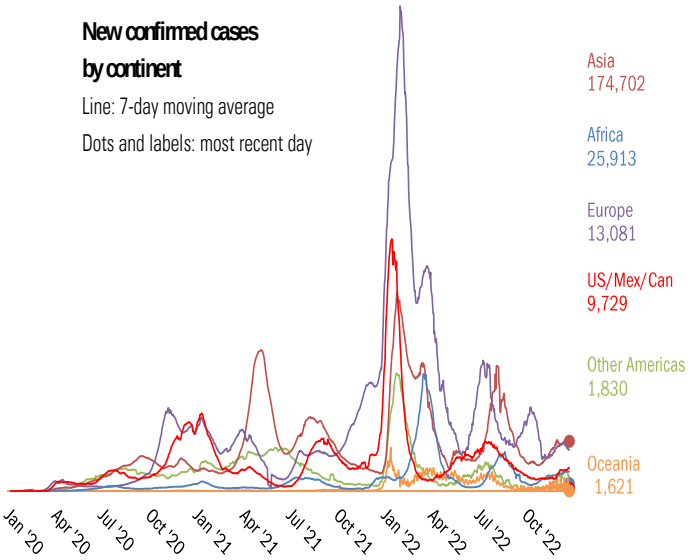
Monday, December 26, 2022

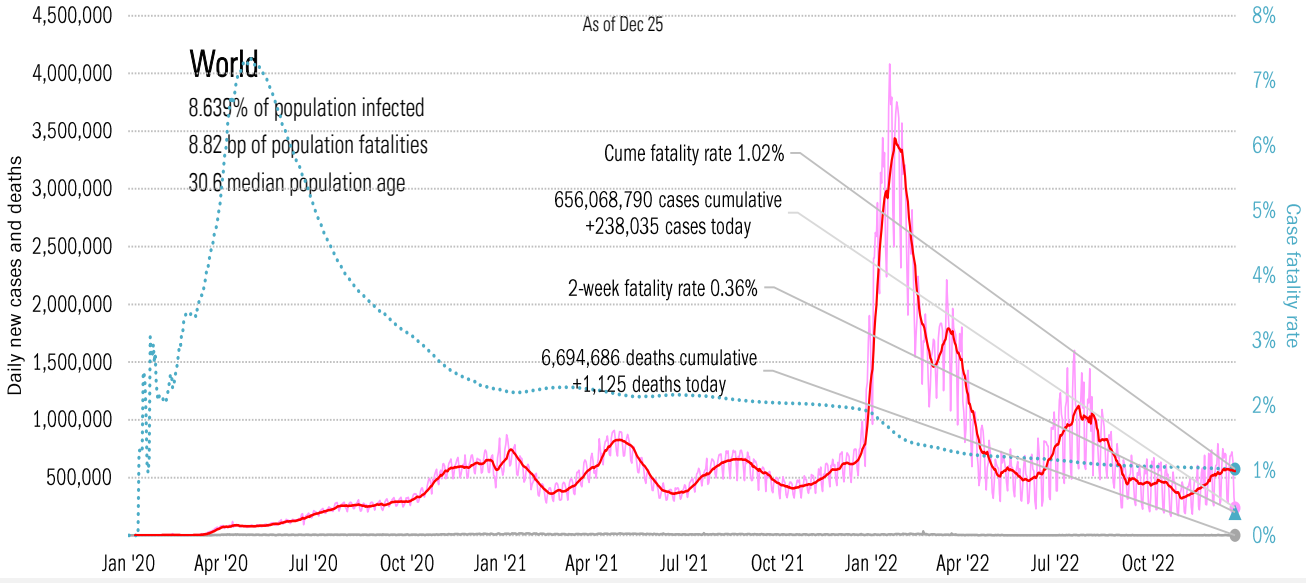
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	149,665	United States	313
United States	60,447	Japan	306
Brazil	48,404	Brazil	191
France	43,844	France	158
Germany	34,092	Germany	157
Korea, South	25,545	Canada	146
Italy	19,653	Italy	114
Taiwan*	17,728	Thailand	89
Russia	6,550	Russia	52
Bolivia	4,684	Korea, South	42
	410,612		1,568





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

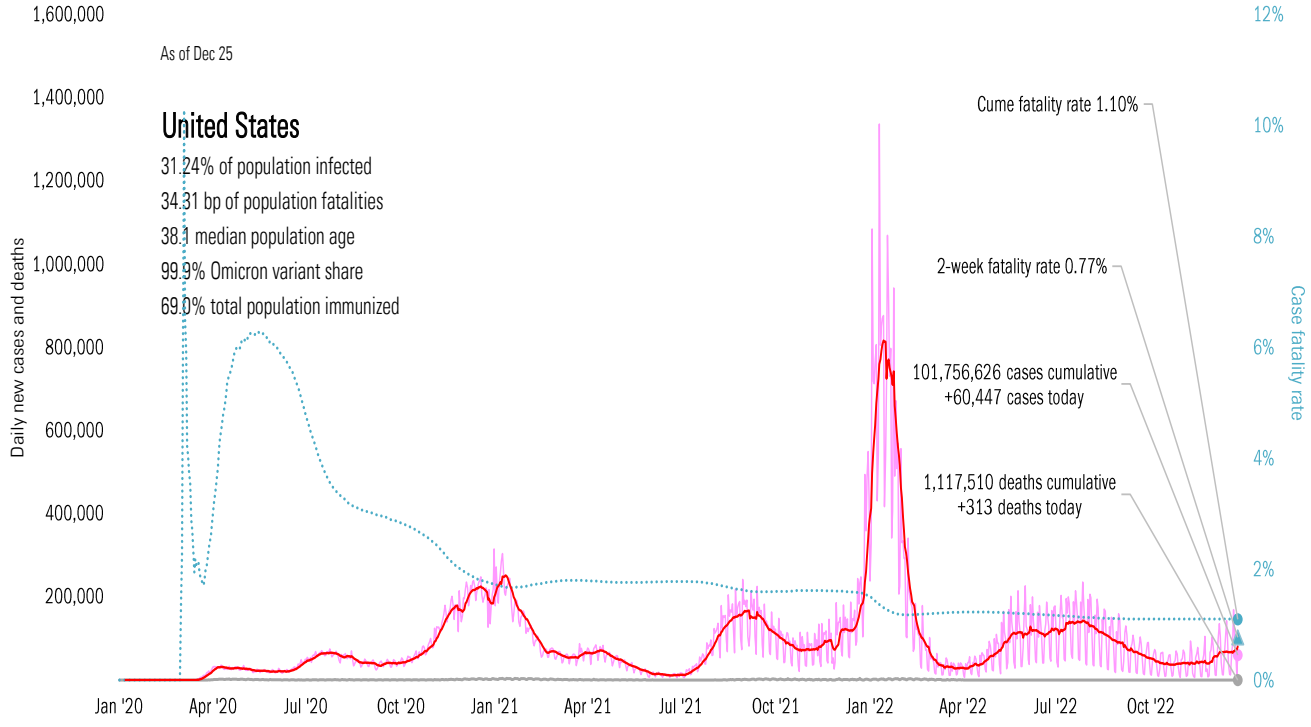
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	6,079	NY	43	TX	434	CA	11,775,426	CA	98,385	TX	565,428	MA	86%	MA	87%
CA	4,947	FL	32	CA	720	TX	8,195,135	TX	91,716	CA	537,693	WA	86%	NM	85%
IL	3,785	CO	27	PA	250	FL	7,312,963	FL	83,606	FL	511,523	RI	85%	TX	85%
LA	3,634	CA	24	GA	189	NY	6,537,638	NY	74,845	NY	332,734	MD	83%	VT	85%
NJ	3,298	IL	24	CT	113	IL	3,953,928	PA	48,798	OH	234,192	DE	83%	DC	84%
VA	2,650	MI	21	MA	157	PA	3,403,177	GA	41,361	GA	233,433	MN	82%	AL	84%
OH	2,556	PA	19	WI	101	NC	3,316,814	OH	40,840	PA	219,241	AK	81%	AK	84%
NC	2,382	NJ	17	FL	314	OH	3,294,521	MI	40,657	IL	202,591	OR	80%	NC	84%
NY	2,103	GA	17	AL	77	MI	2,977,727	IL	40,610	MI	174,137	NC	80%	WA	81%
MI	2,046	MA	16	AZ	123	GA	2,974,619	NJ	35,425	NJ	151,968	CA	80%	OR	81%
	33,480		240		2,478		53,741,948		596,243		3,162,940				
All states	60,447		313		5,340	All states	101,756,626		1,117,510		5,742,453	All states	70%		67%
Top ten	55%		77%		46%	Top ten	54%		55%		55%	Median	73%		73%

Some states not reporting

Five most improved US states

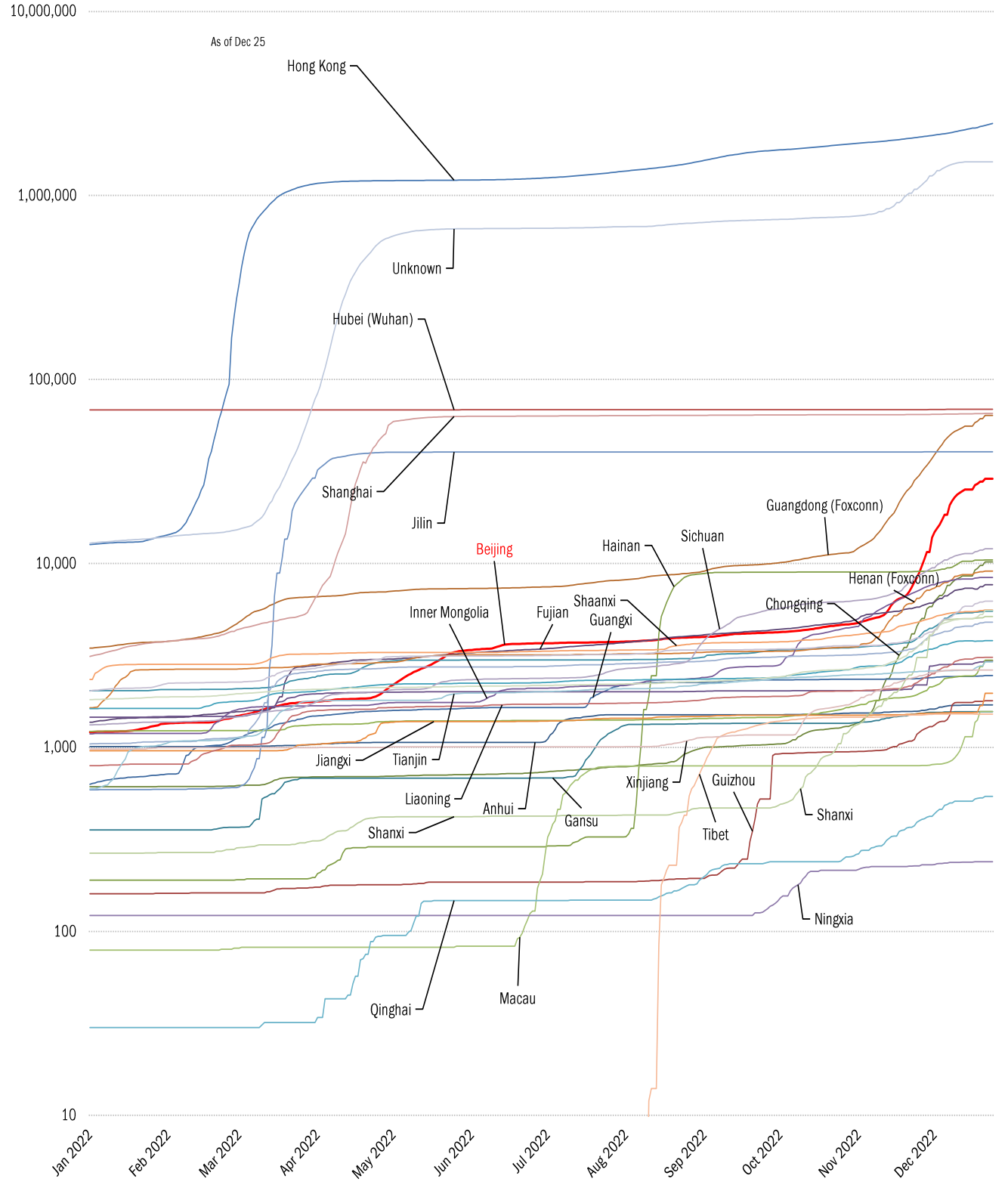
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
NY	-777	AK	0	NY	-131
CT	-481	AL	0	IL	-129
AK	0	AR	0	NC	-62
AL	0	AZ	0	MO	-60
AR	0	CA	0	OH	-51



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

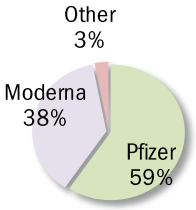
Rolling out the vaccines in the US and the world

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

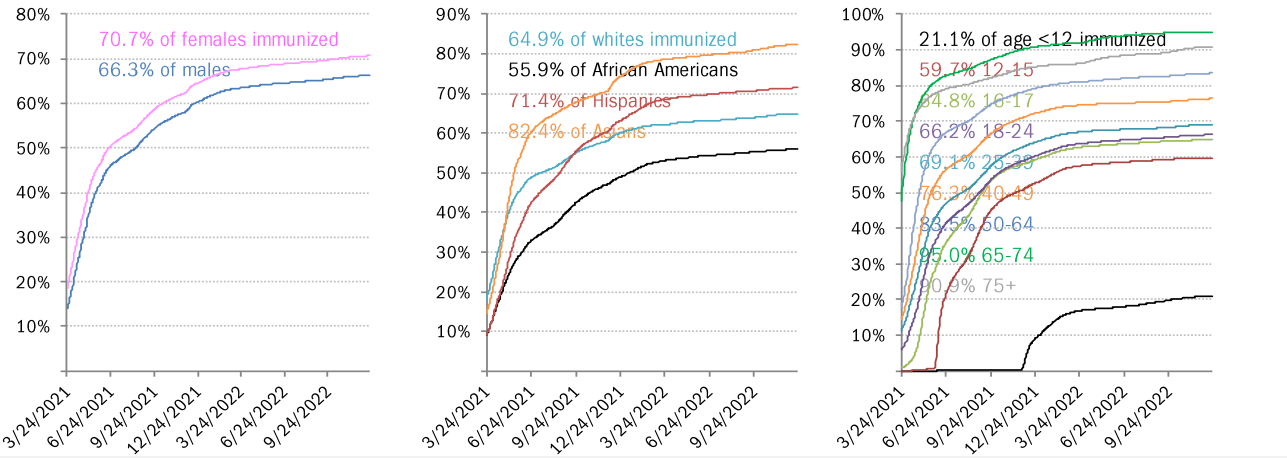
"Immunity" = two doses

Best
Middle
Worst

As of Dec 23

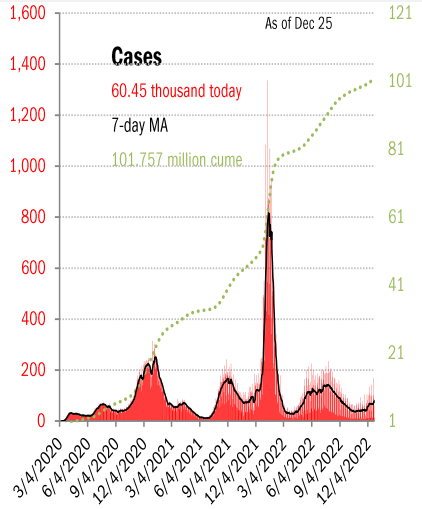
AK					WI					ME
72.7%					74.8%					95.0%
64.9%					67.9%					83.0%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
84.8%	63.7%	68.0%	69.0%	78.4%	78.9%	69.2%		94.0%	95.0%	87.5%
75.7%	56.3%	58.9%	58.4%	71.8%	71.0%	62.1%		80.4%	85.2%	71.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.2%	77.2%	60.7%	83.3%	70.4%	64.1%	65.5%	90.1%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

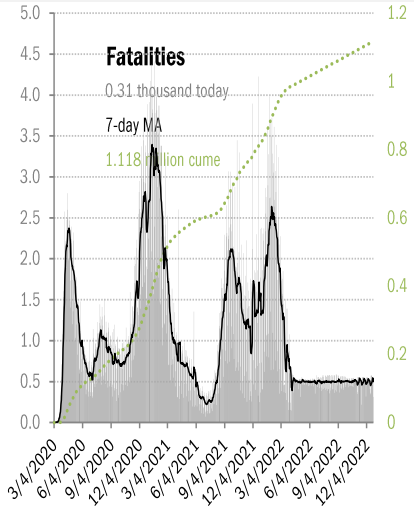
The demographics of US vaccination

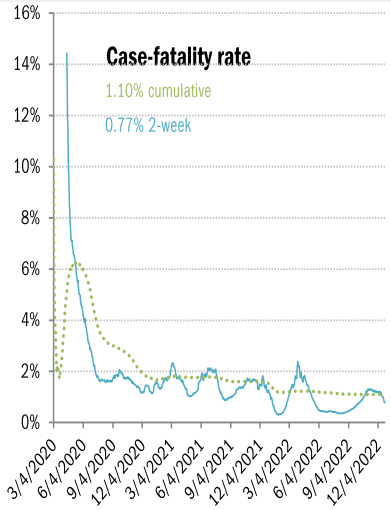


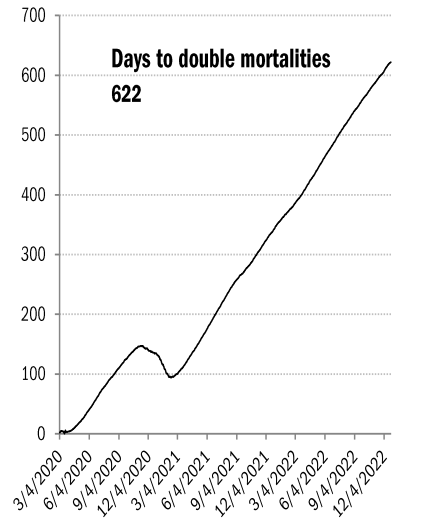
Source: CDC, CDC, Our World in Data, TrendMacro calculations

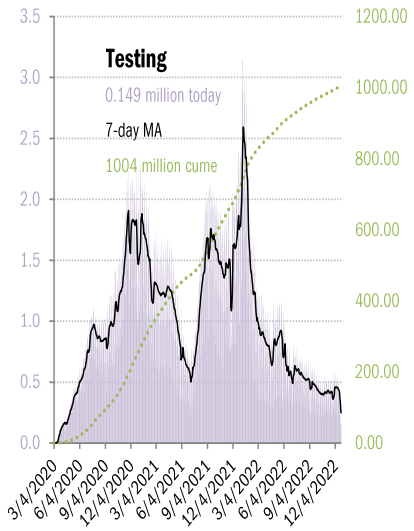
US deep-dive

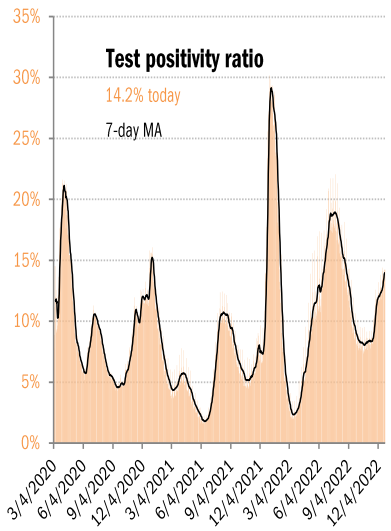


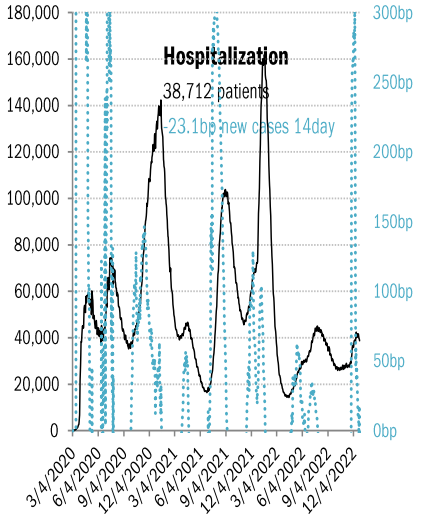


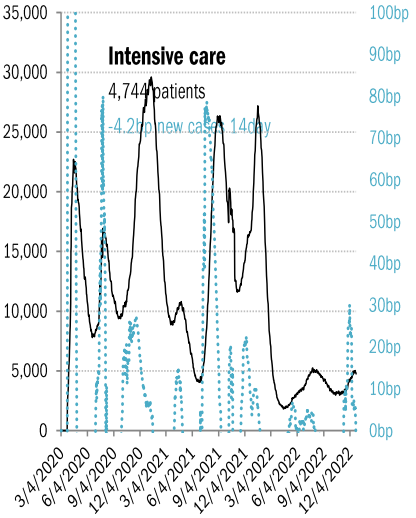


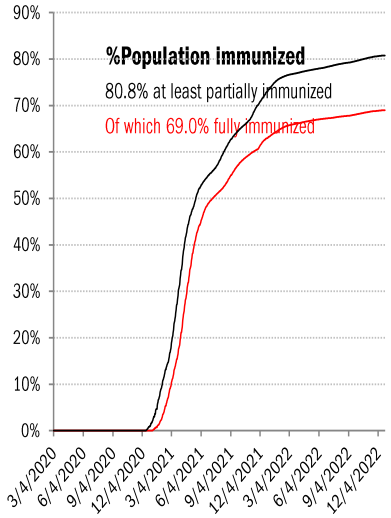










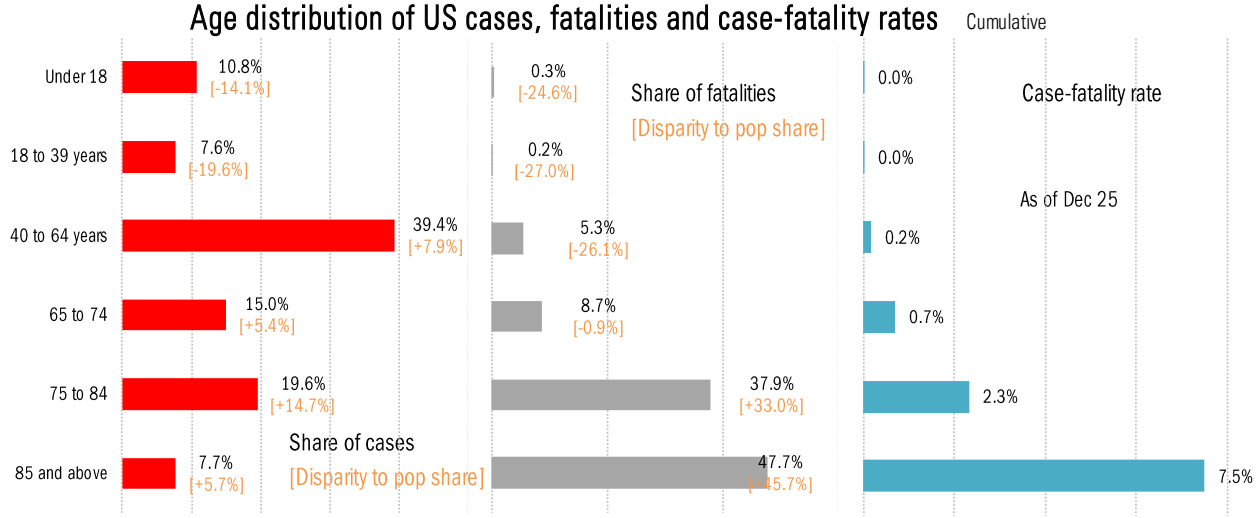


Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

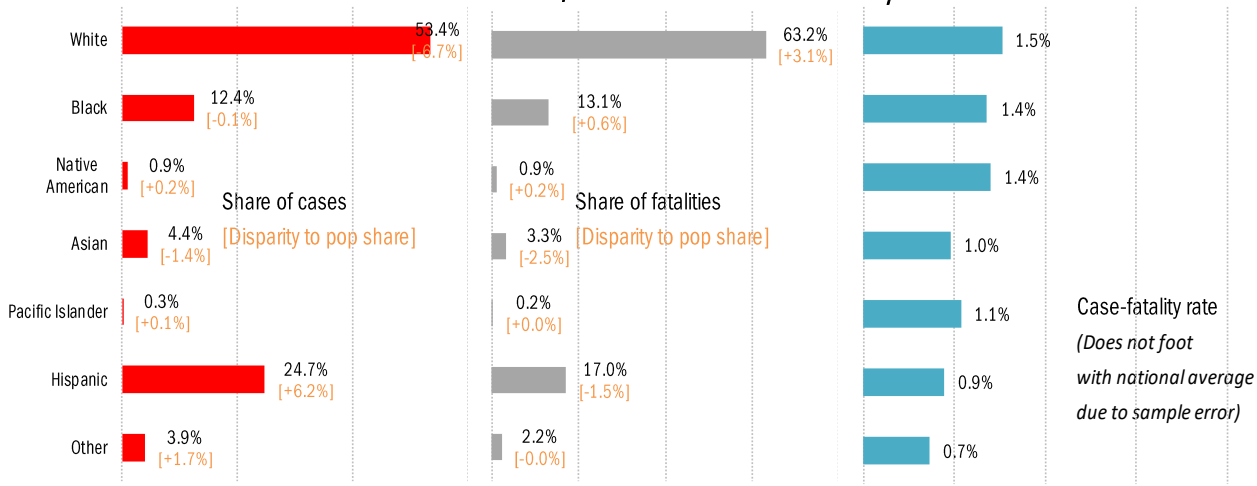
US deep-dive: demographics of age, race and health

Updates weekly on Sunday, 1 week lag

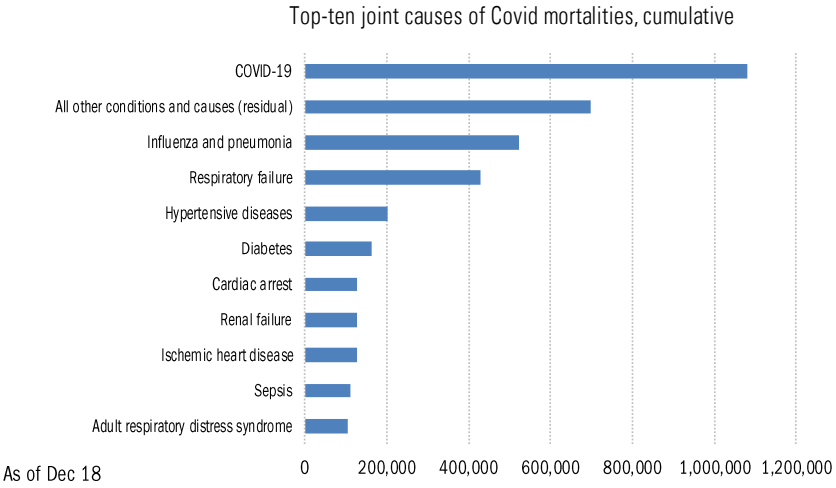
Age distribution of US cases, fatalities and case-fatality rates



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's NHC stops publishing COVID-19 daily cases, handing duty over to CDC
Global Times
December 25, 2022

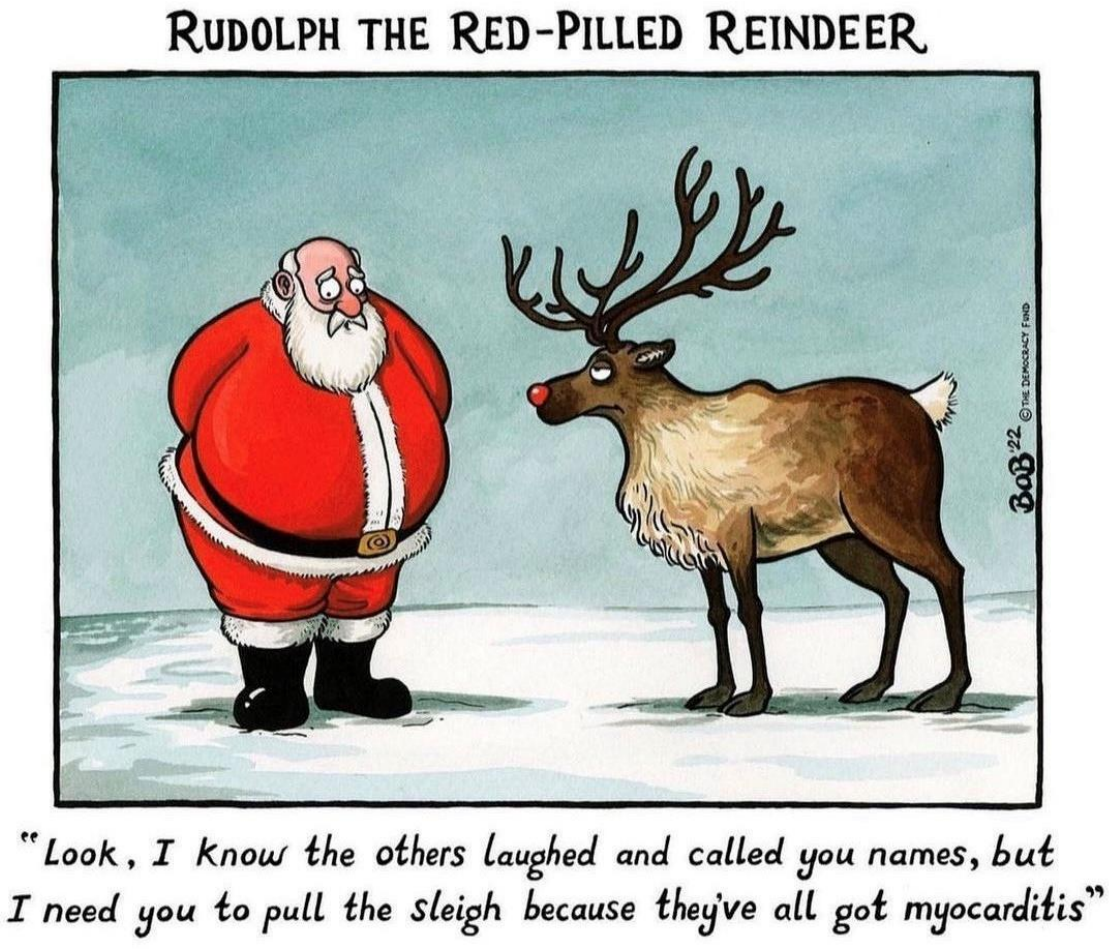
China Stops Releasing Daily Covid Data as Accuracy Questioned
Bloomberg
December 24, 2022

China's Xi Urges Better Hygiene as Nation Continues Covid Shift
Bloomberg
December 26, 2022

The Abject Failure of Central Planning During Covid
David Henderson
Fraser Institute
December 2022

Is it still possible to be 'fully vaccinated?'
Alix Martichoux
The Hill
December 25, 2022

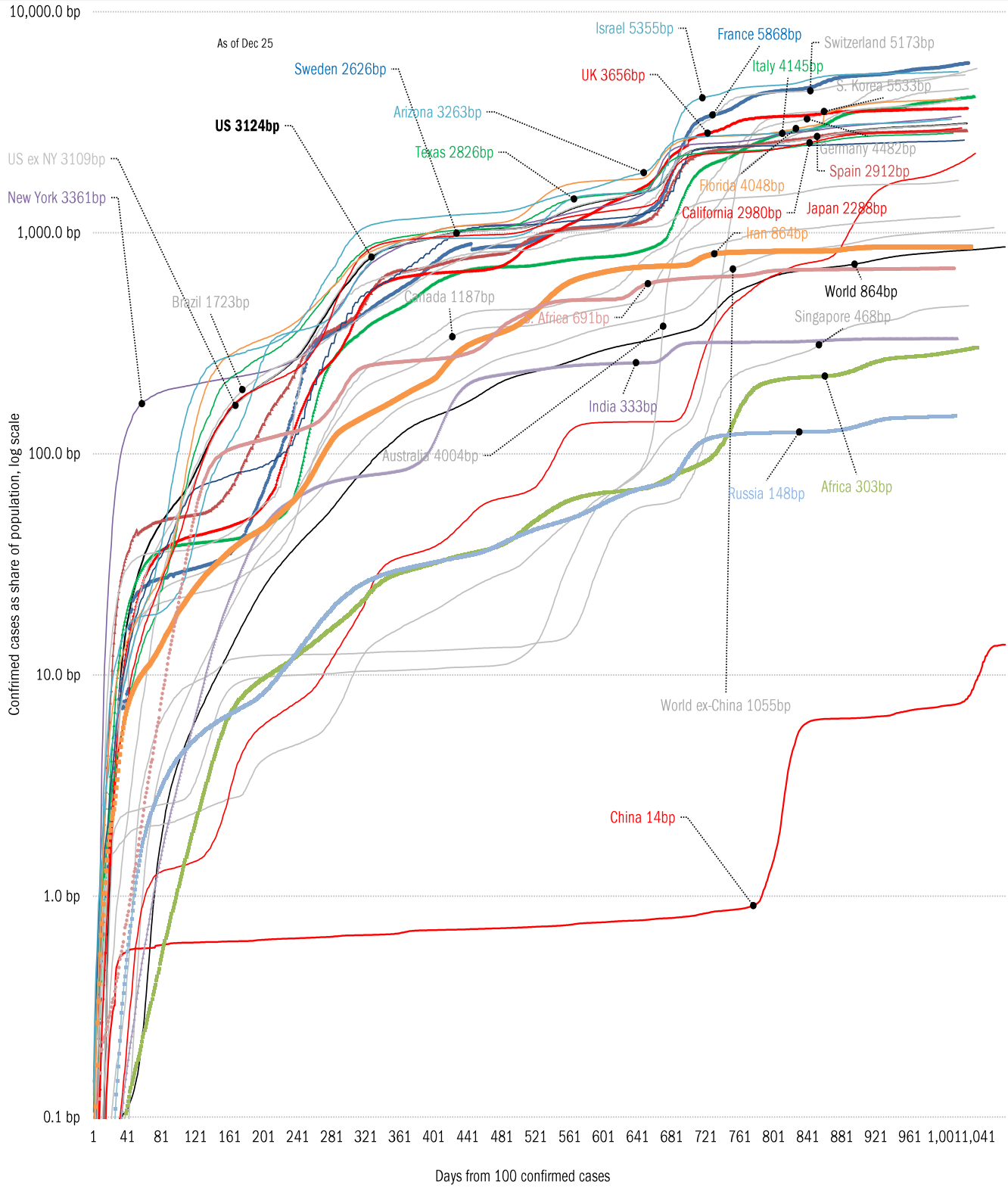
Meme of the Day



Source: Our beloved clients, Power Line blog "The Week in Pictures" and CTUP

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

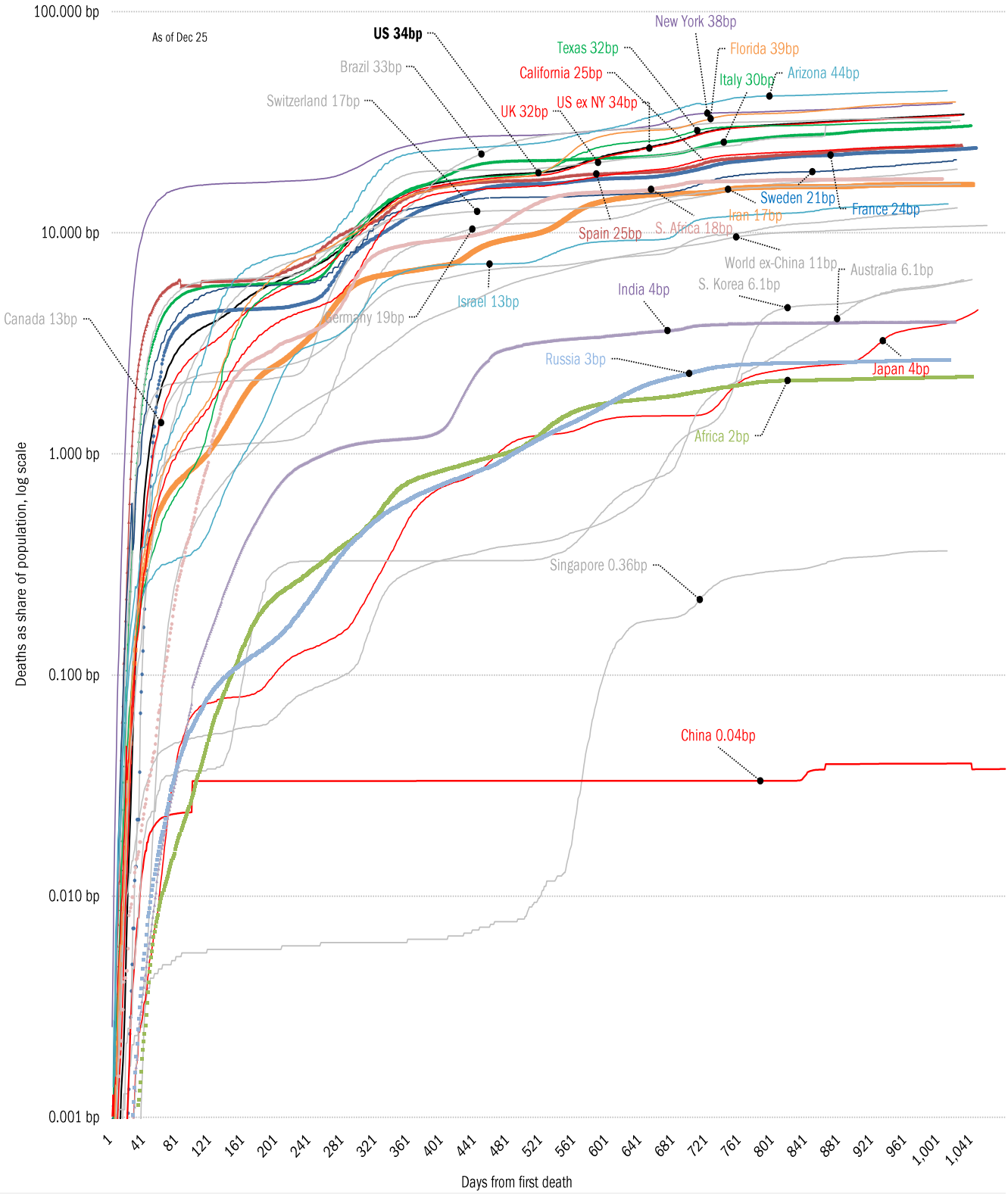
Share of infected population from first day with 100 confirmed cases, log scale



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

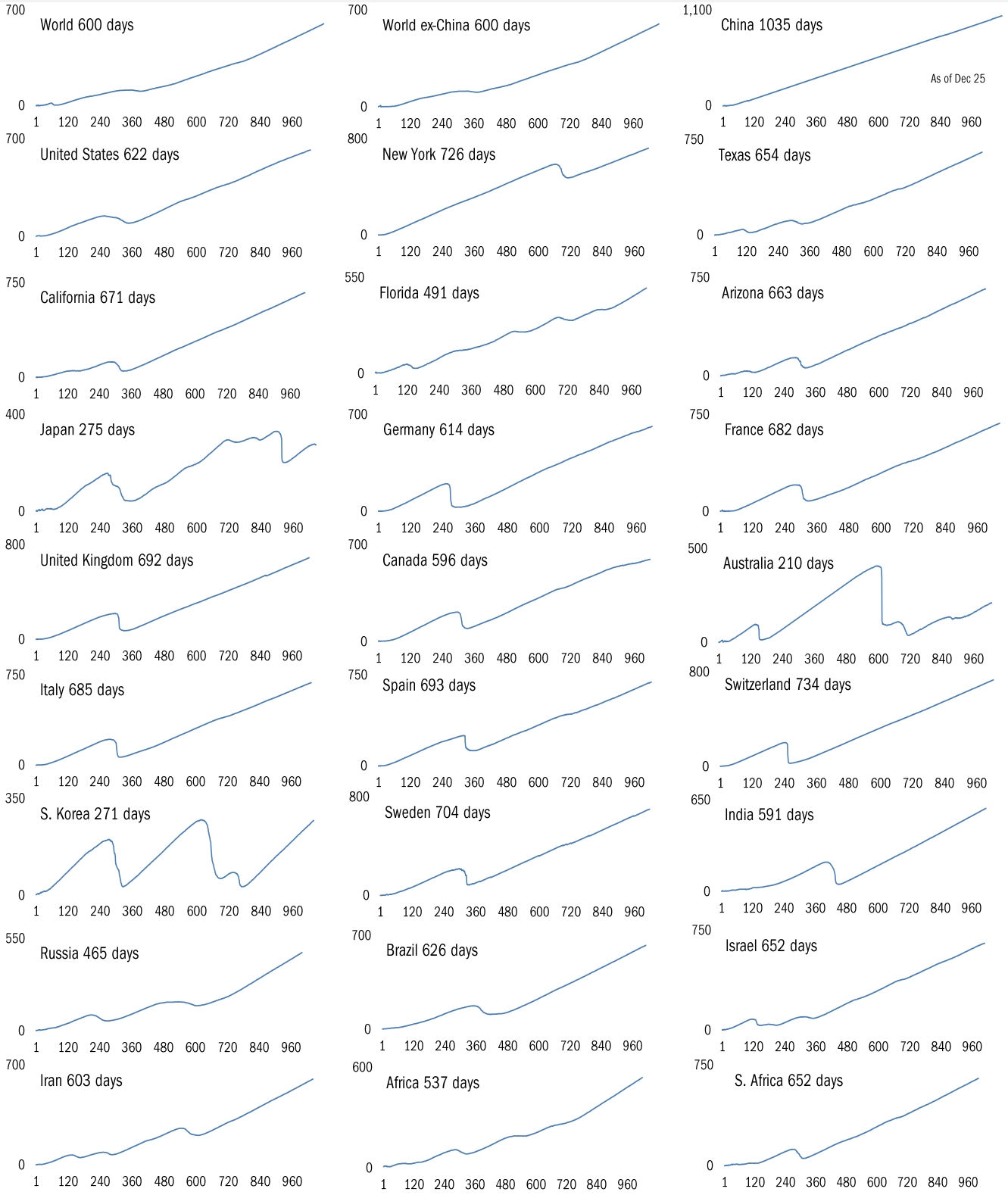


Source: Johns Hopkins, TrendMacro calculations

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

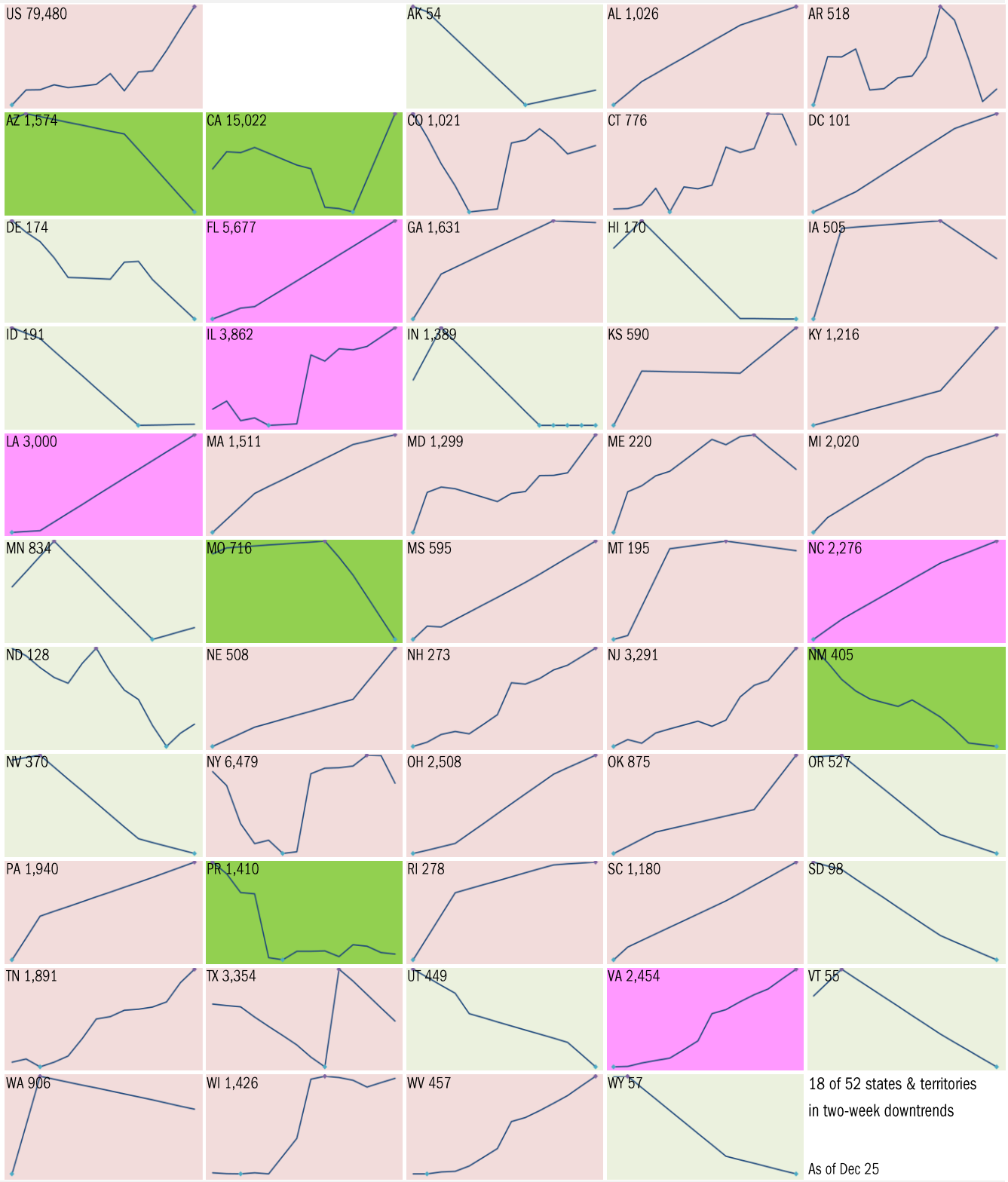


Source: Johns Hopkins, TrendMacro calculations

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

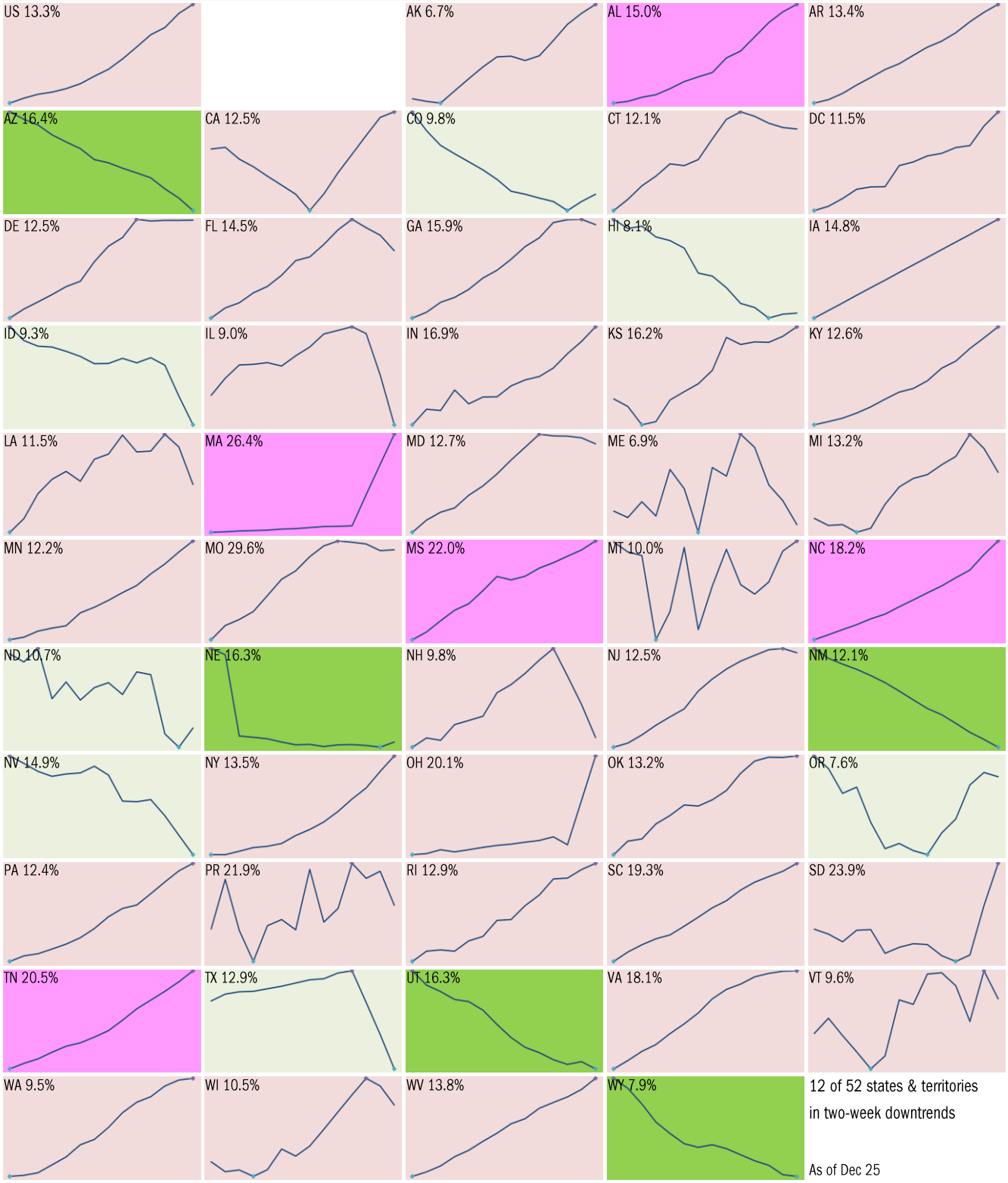


Source: Johns Hopkins, TrendMacro calculations

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

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

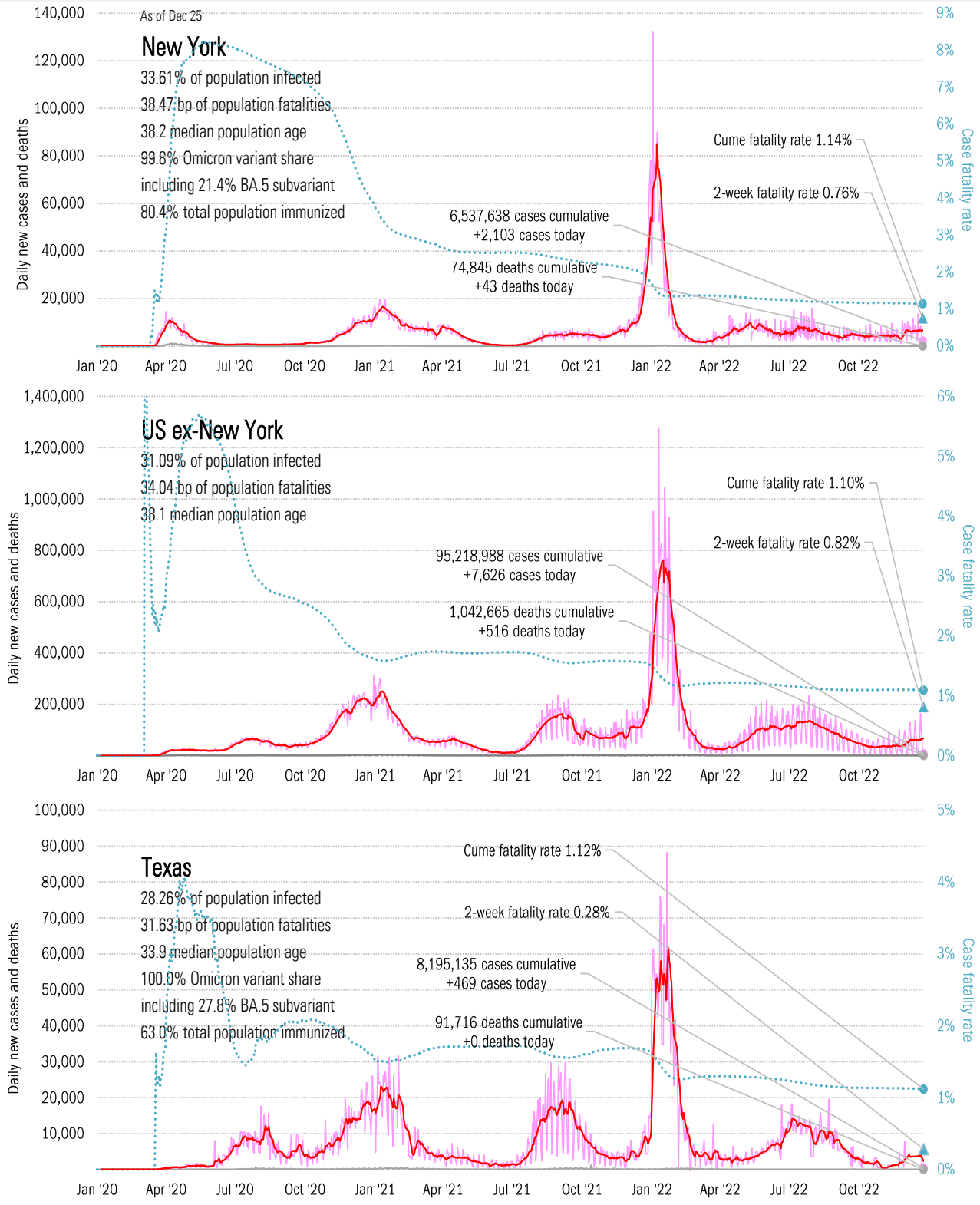
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

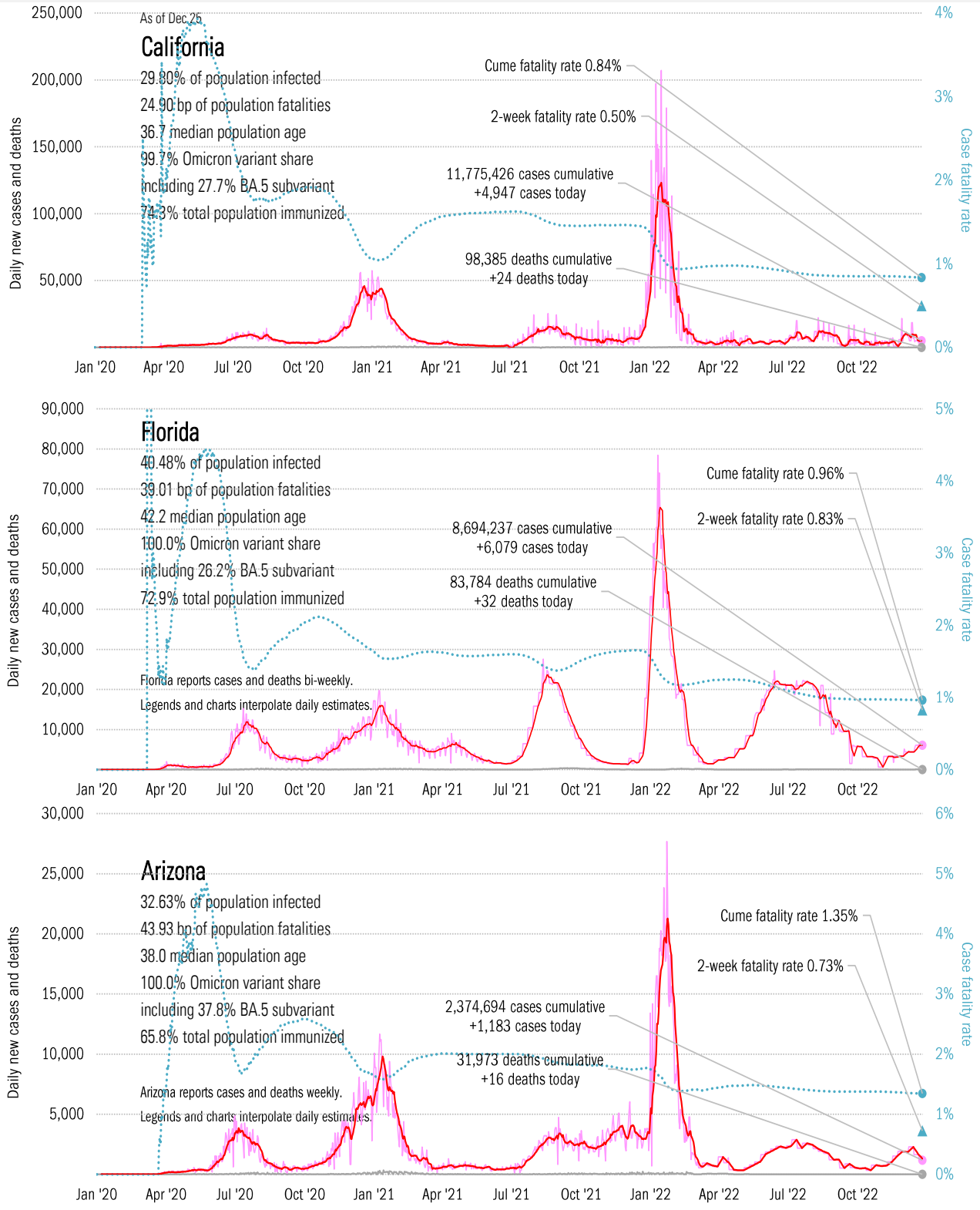
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

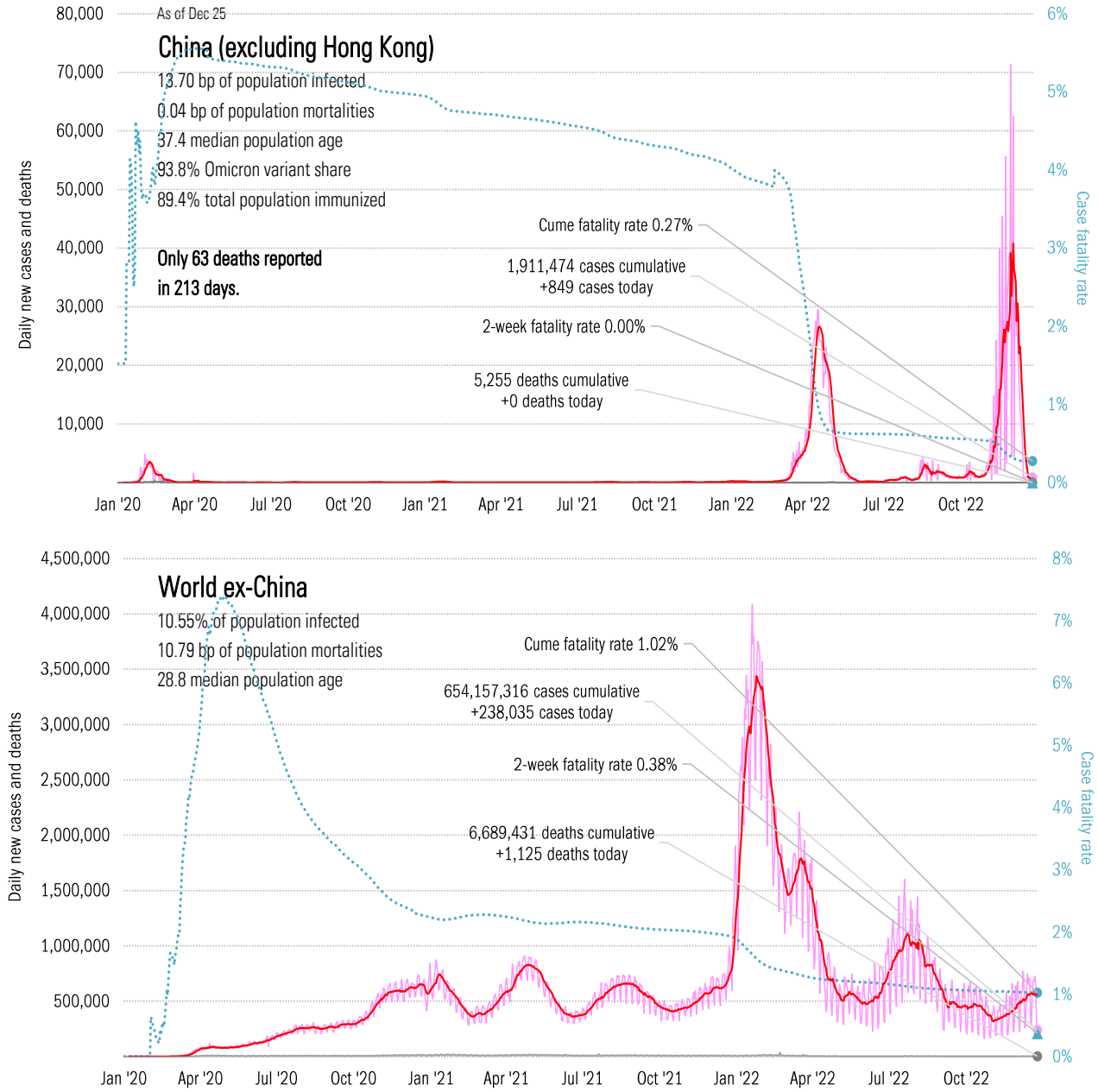
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

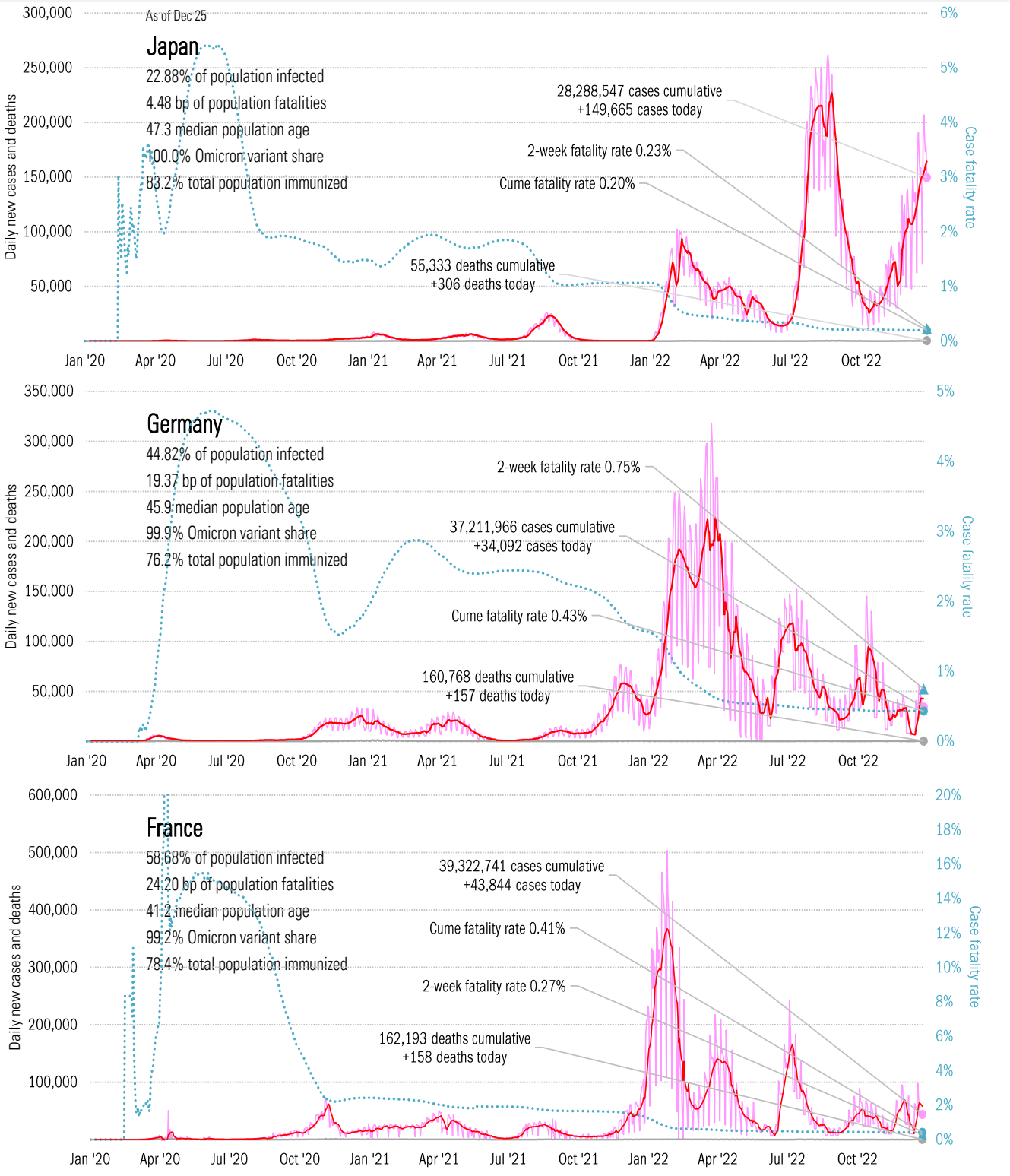
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

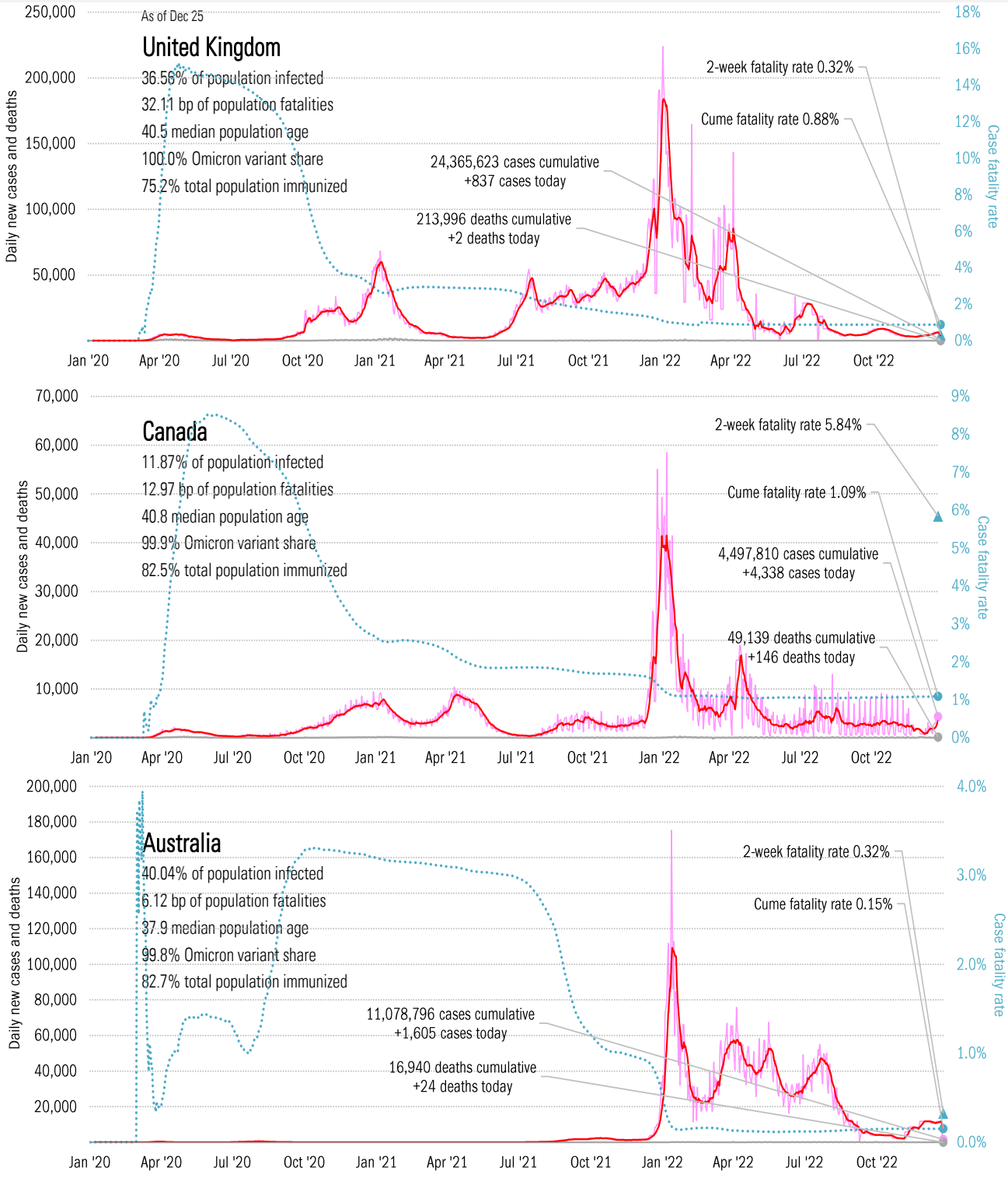
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

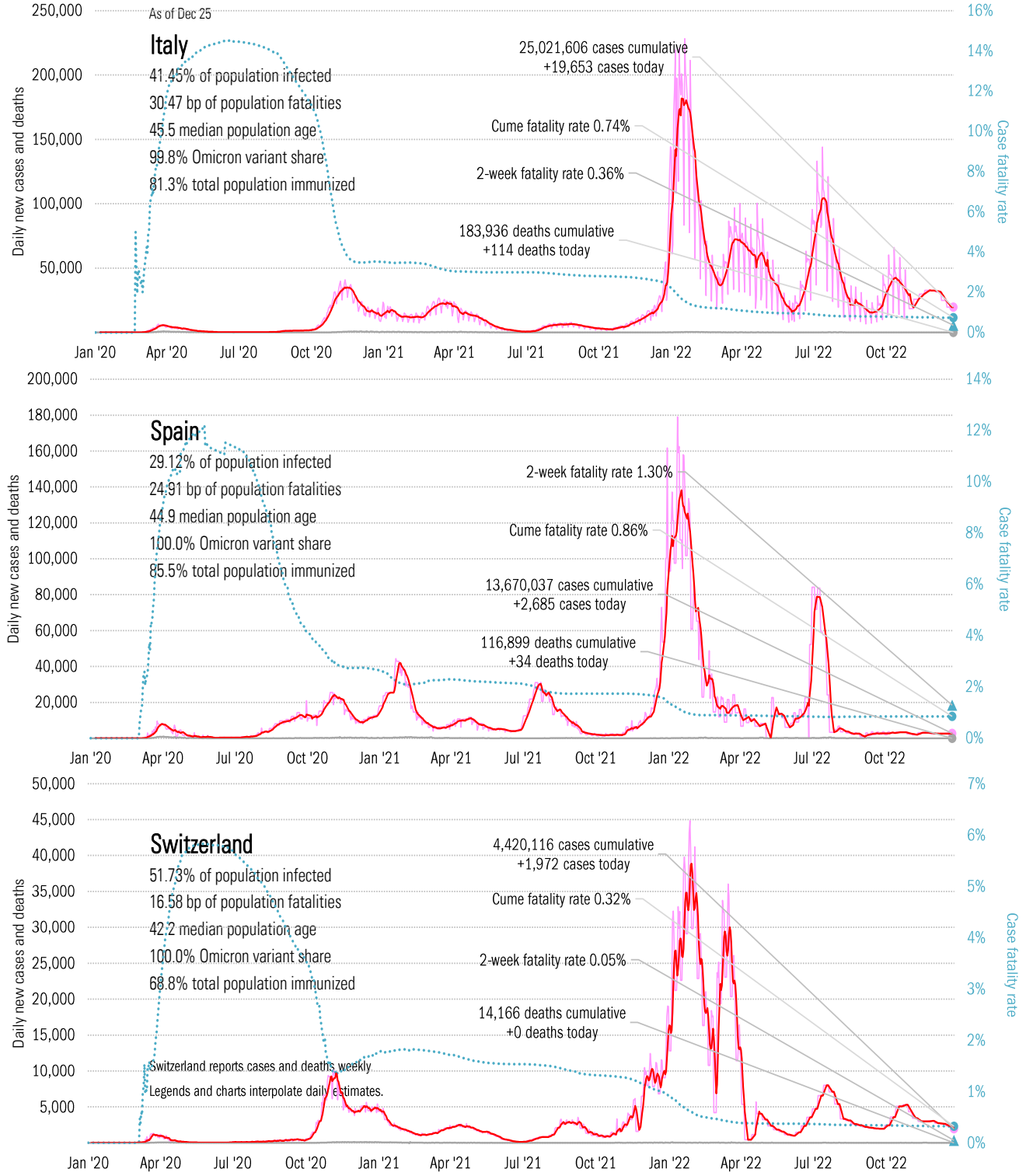
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

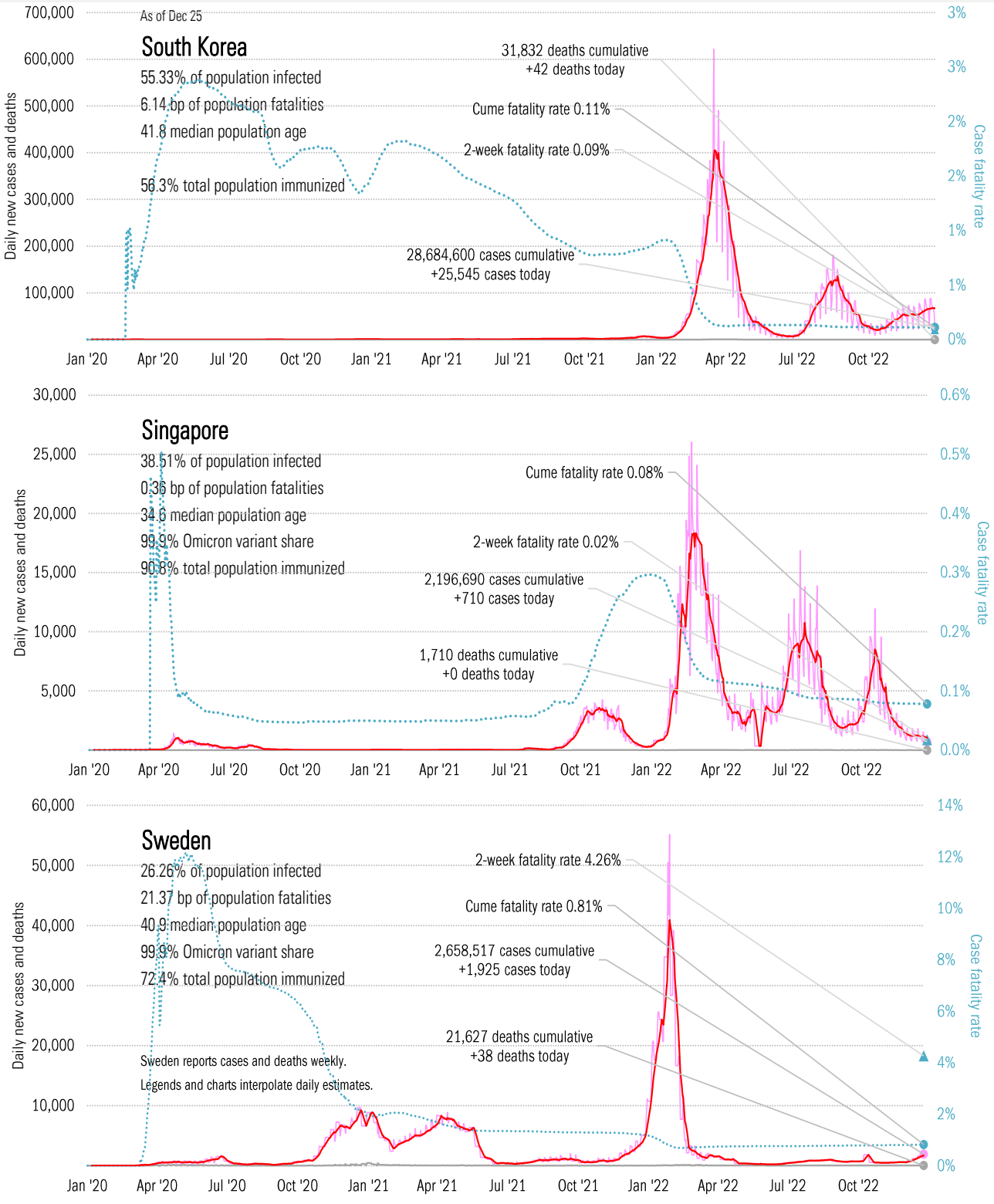
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

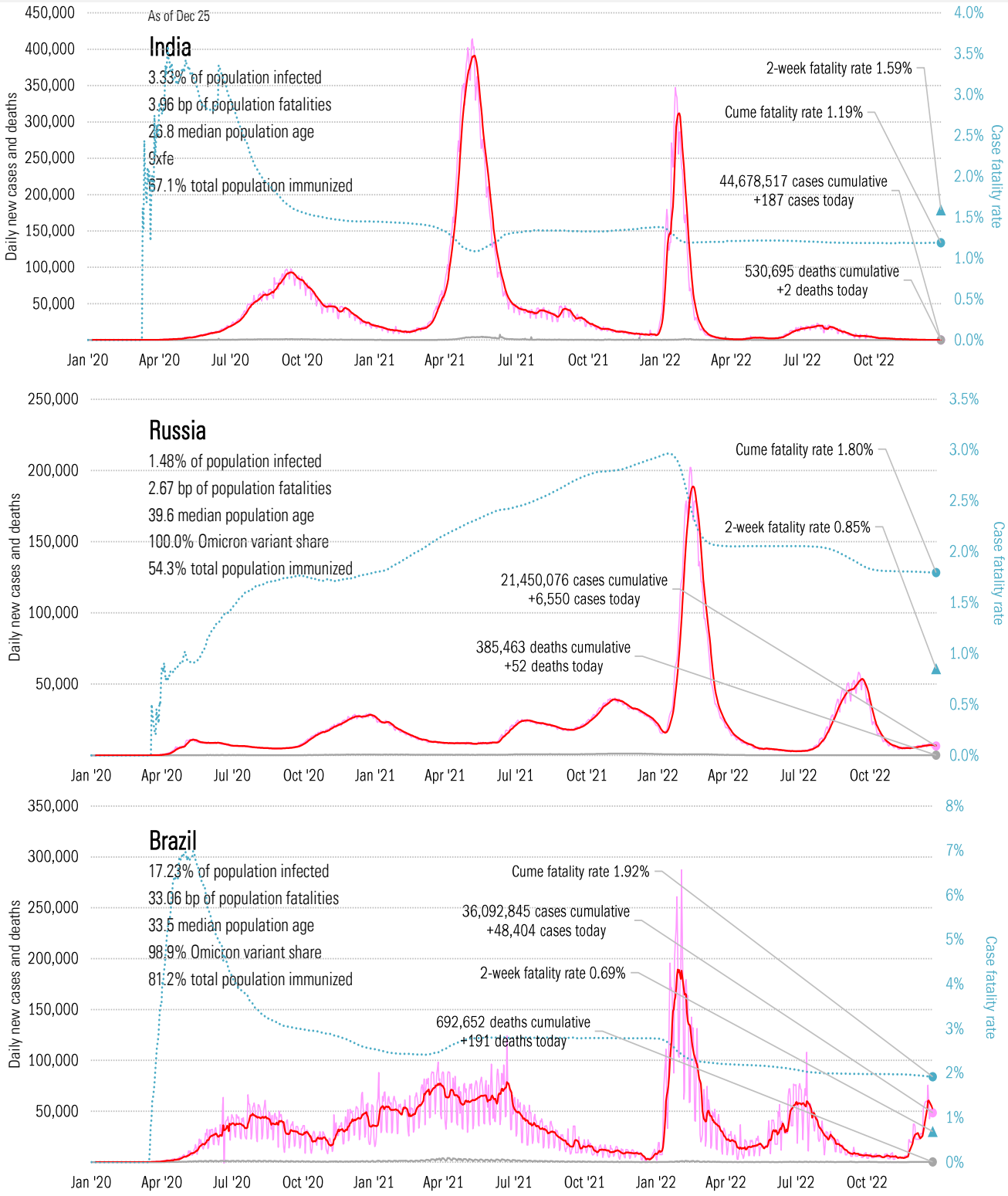
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

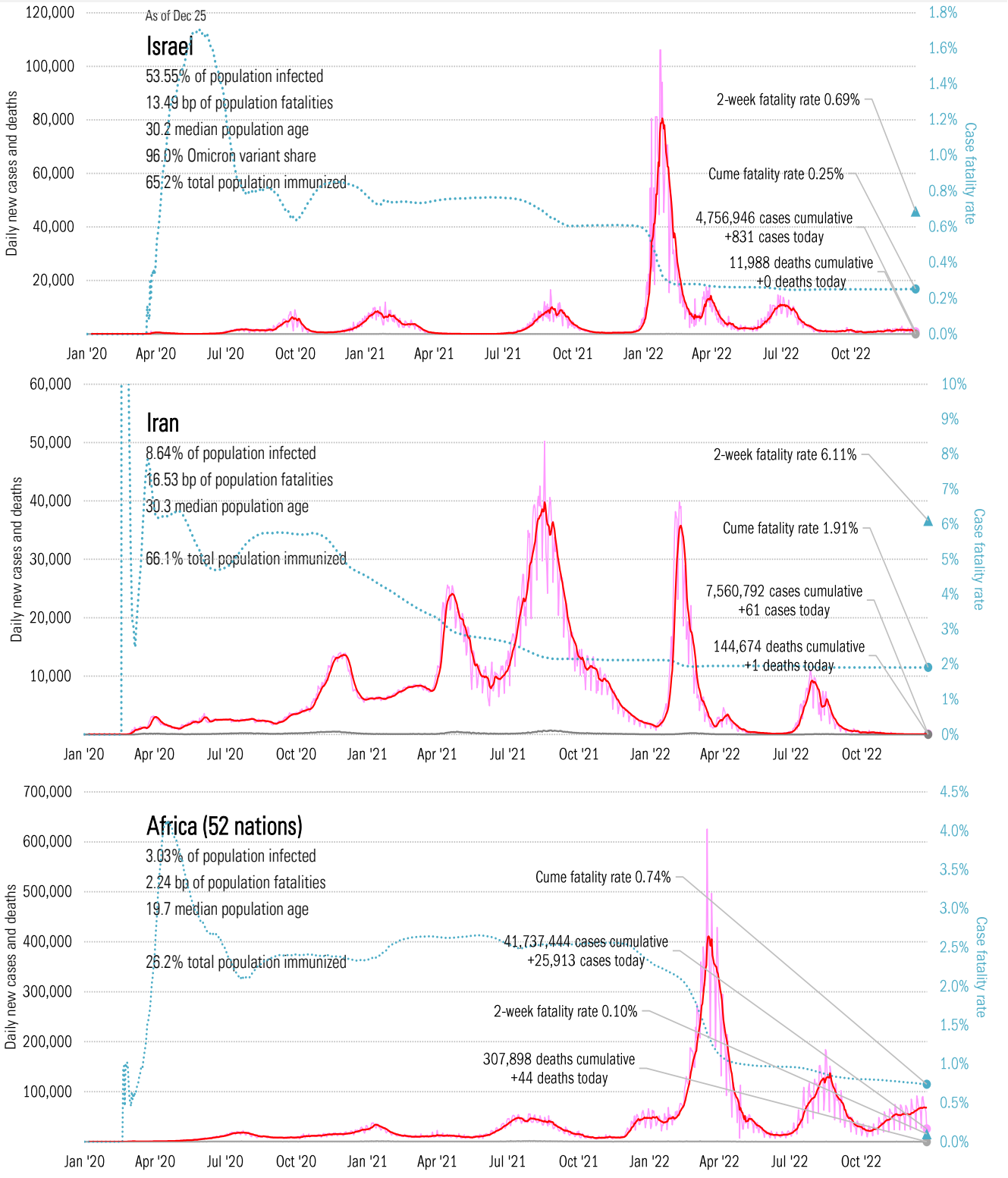
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

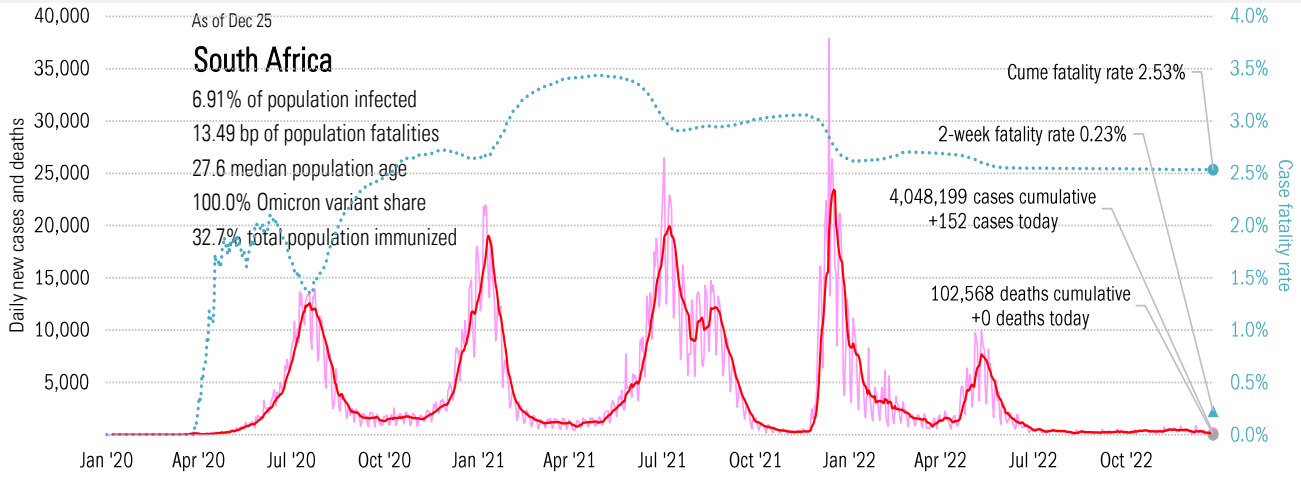
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations