Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

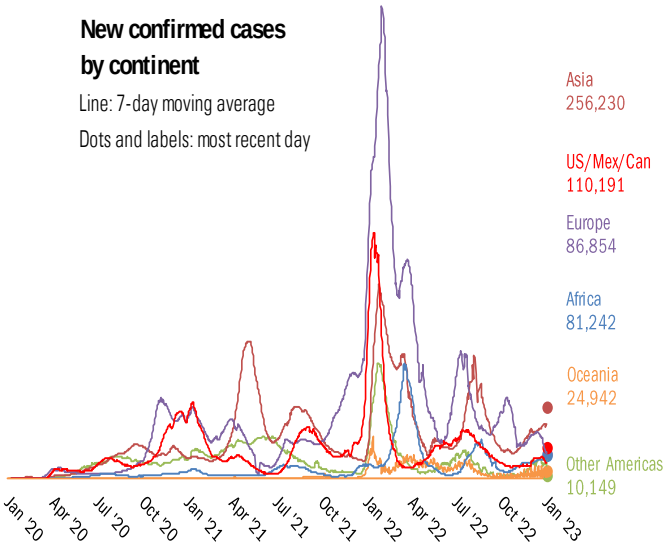
Wednesday, January 4, 2023

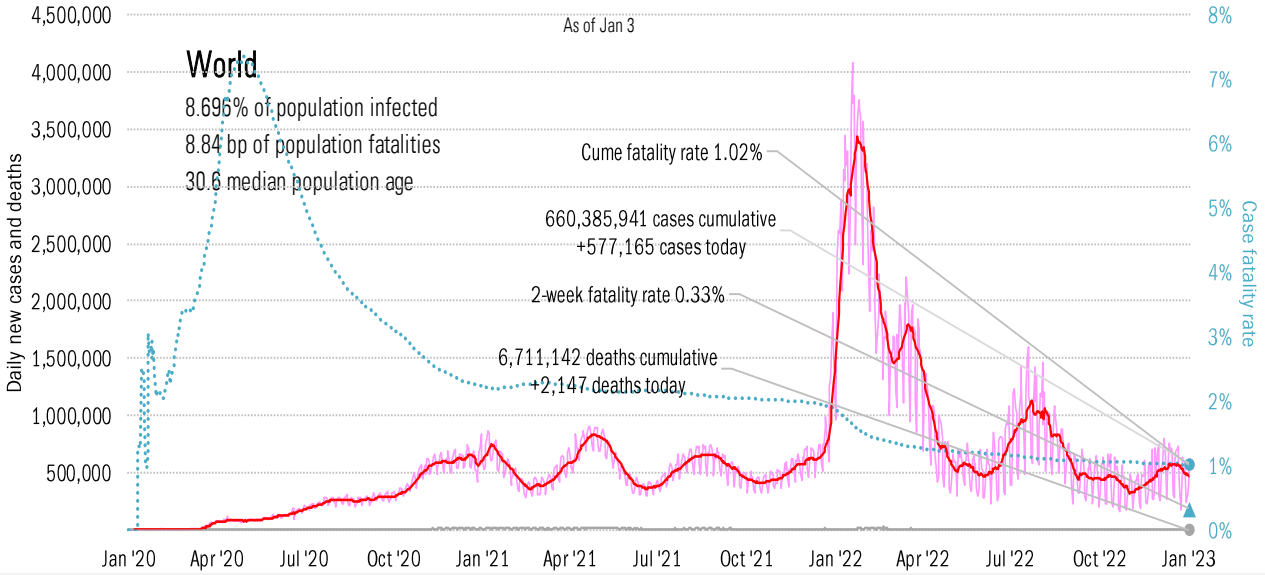
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Philippines	135,052	United States	476
Japan	91,904	Japan	223
Korea, South	78,575	France	163
United States	66,376	Brazil	128
Germany	36,145	Italy	101
Brazil	31,085	Norway	100
Taiwan*	25,005	Mexico	98
France	23,207	Portugal	91
New Zealand	22,770	Denmark	90
Mexico	18,477	Botswana	82
	528,596		1,552





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

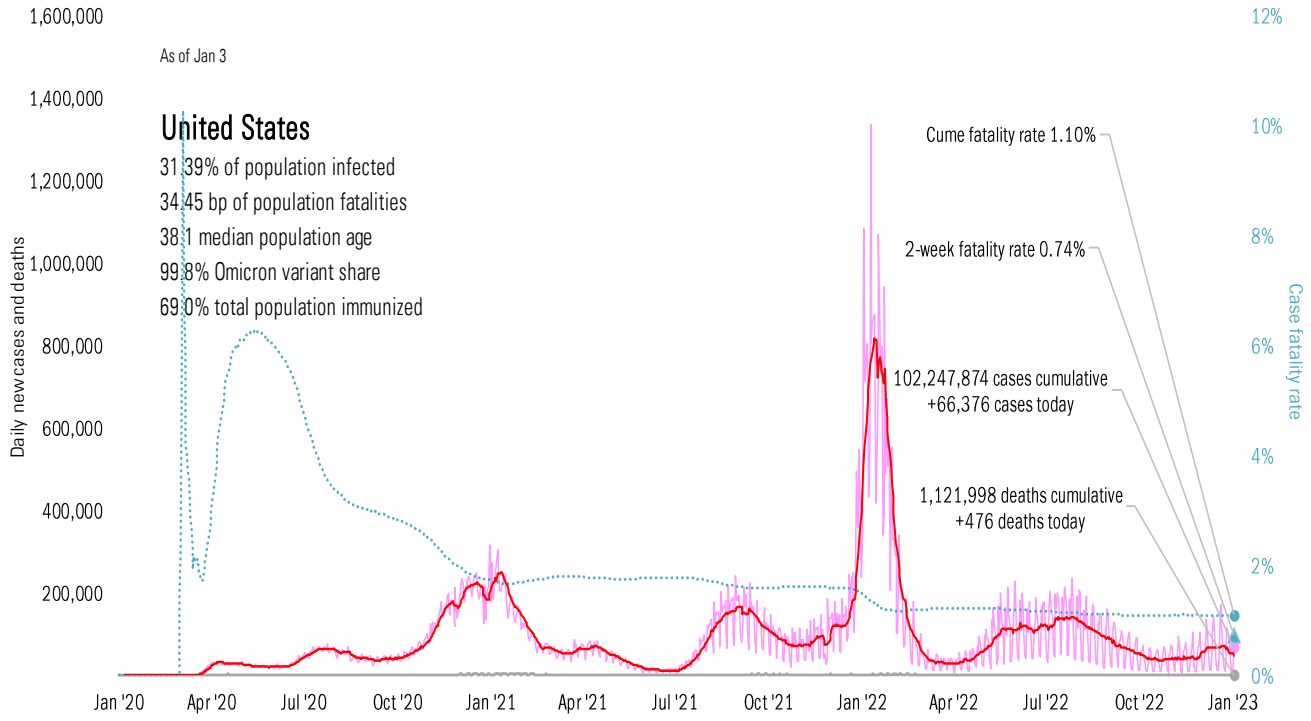
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
NY	14,423	IN	96	GA	265	CA	11,836,402	CA	98,696	TX	570,510	WA	90%	TX	89%
CA	6,903	NY	72	WV	67	TX	8,228,752	TX	91,821	CA	544,489	RI	89%	RI	88%
IL	5,027	NV	46	LA	82	FL	7,338,503	FL	83,906	FL	515,304	NV	89%	NH	88%
FL	3,649	FL	43	FL	424	NY	6,592,429	NY	75,211	NY	336,998	MA	86%	AL	86%
NJ	2,570	IL	24	MA	224	IL	3,974,859	PA	48,892	OH	236,576	DE	86%	DC	86%
NC	2,382	NJ	21	NJ	218	PA	3,416,848	GA	41,417	GA	235,280	AK	86%	MA	86%
VA	2,108	AZ	21	TX	553	NC	3,316,814	OH	40,928	PA	221,146	NH	85%	DE	85%
TN	1,913	TX	21	AL	109	OH	3,307,568	MI	40,836	IL	204,770	MD	85%	NM	85%
OH	1,864	CA	15	AK	5	MI	2,998,447	IL	40,702	MI	175,505	MO	84%	VT	84%
GA	1,511	PA	13	DE	19	GA	2,985,193	NJ	35,531	NJ	153,966	WV	82%	AK	84%
	42,349		371		1,966		53,995,815		597,940		3,194,544				
All states	66,376		476		5,530	All states	102,247,874		1,121,998		5,797,679	All states	70%		67%
Top ten	64%		78%		36%	Top ten	54%		55%		55%	Median	77%		78%

Some states not reporting

Five most improved US states

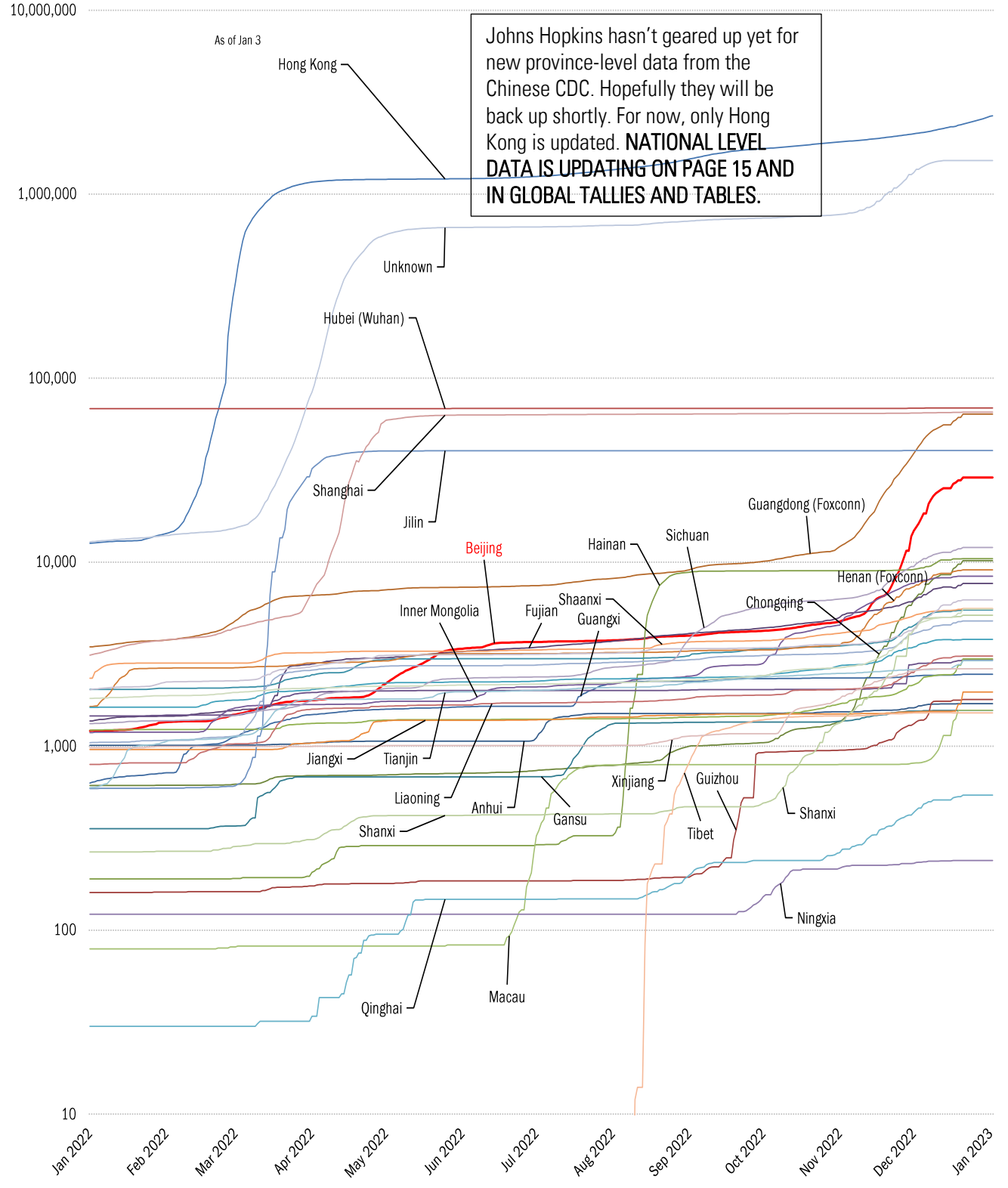
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
CA	-2,109	GA	-8	NC	-207
WI	-1,515	MD	-8	TX	-112
CO	-1,176	NM	-5	IN	-100
TX	-506	WI	-5	PA	-83
MD	-290	NJ	-3	CA	-76



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

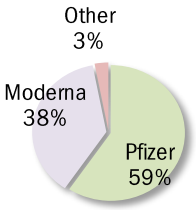
Rolling out the vaccines in the US and the world

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

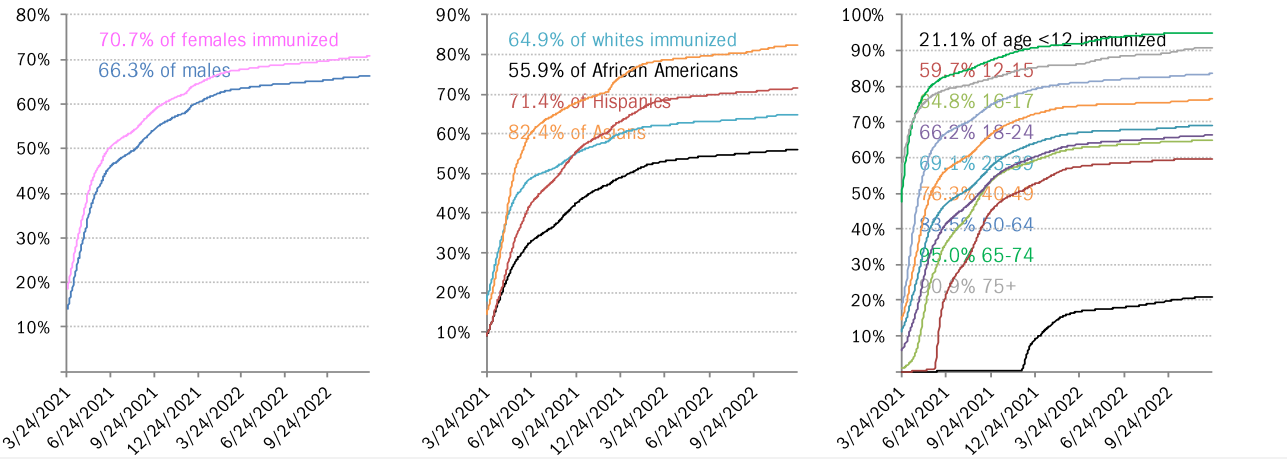
"Immunity" = two doses

Best
Middle
Worst

As of Dec 30

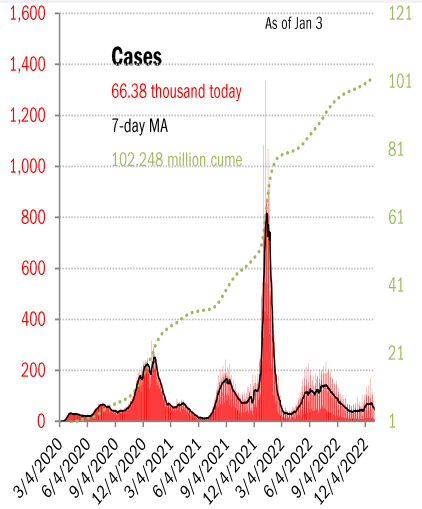
AK					WI					ME
72.8%					74.9%					95.0%
64.9%					68.0%					83.0%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
84.9%	63.7%	68.0%	69.1%	78.5%	78.9%	69.3%		94.1%	95.0%	87.5%
75.7%	56.3%	59.0%	58.4%	71.9%	71.0%	62.2%		80.5%	85.3%	71.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.2%	77.3%	60.7%	83.4%	70.4%	64.2%	65.5%	90.1%	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%

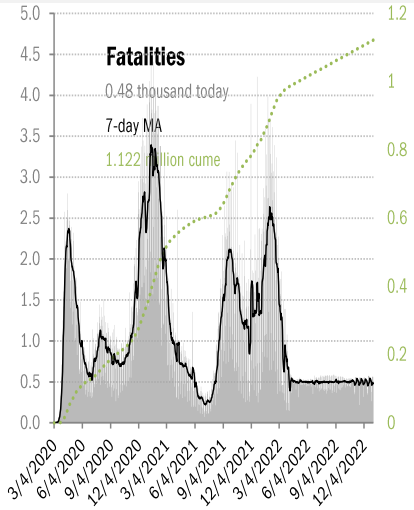
The demographics of US vaccination

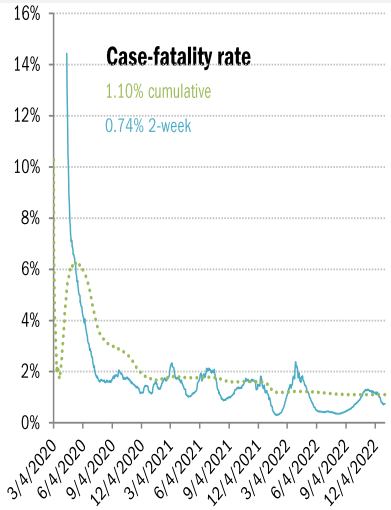


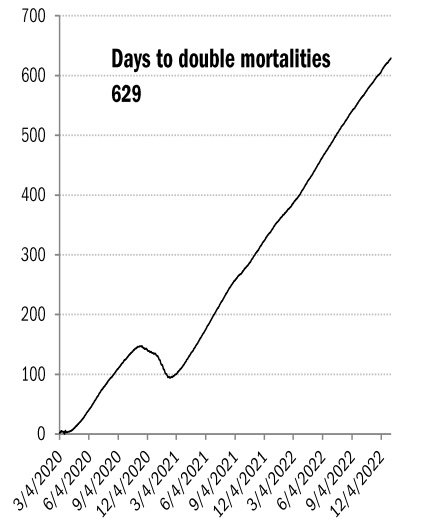
Source: CDC, CDC, Our World in Data, TrendMacro calculations

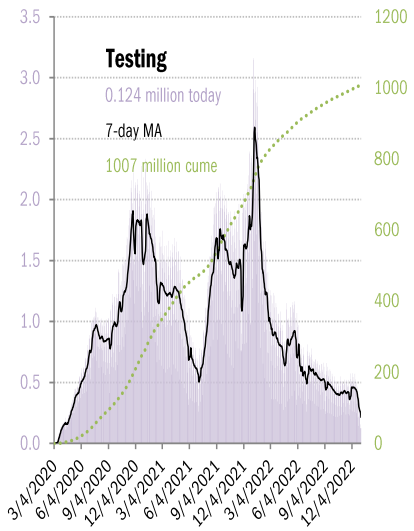
US deep-dive

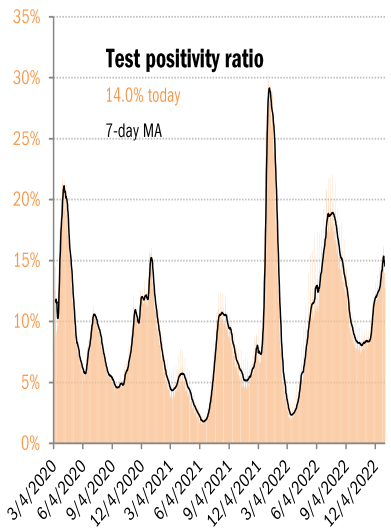


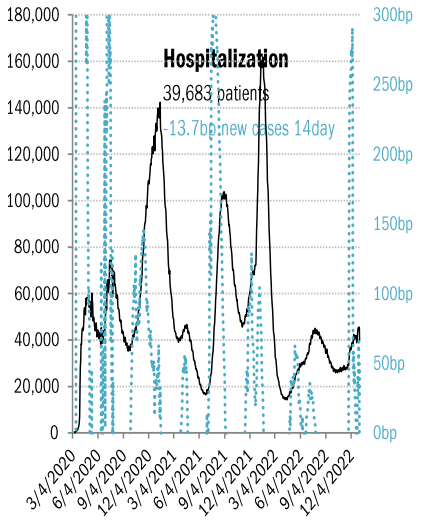


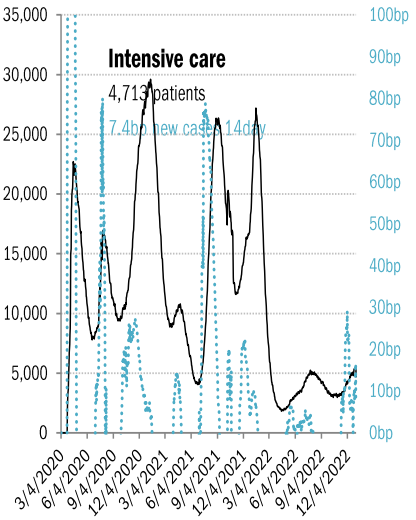


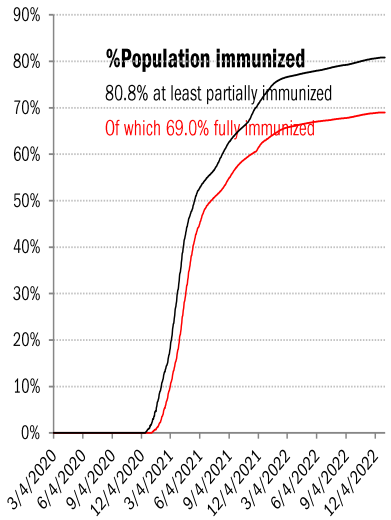












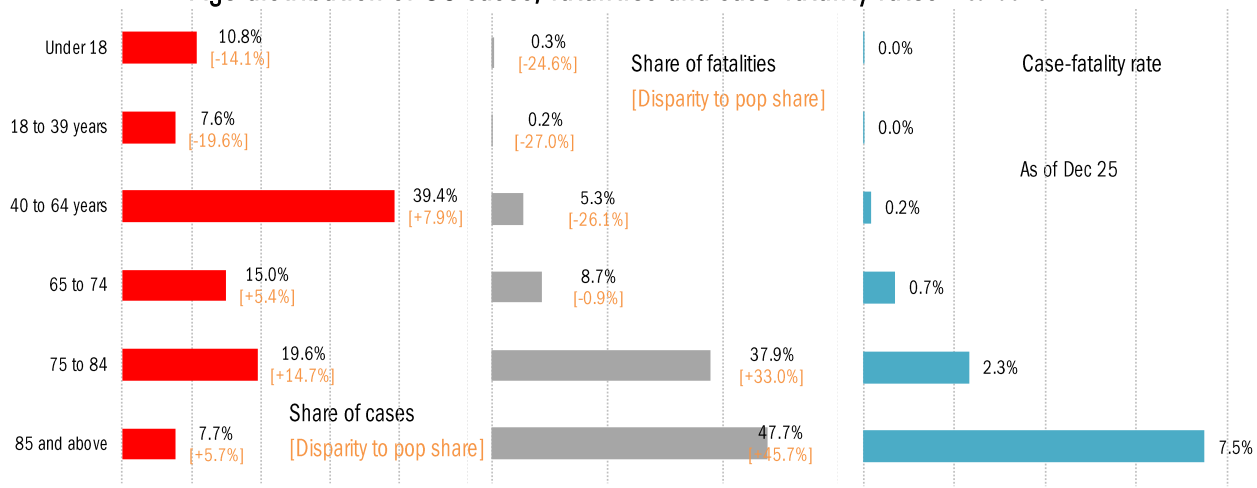
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

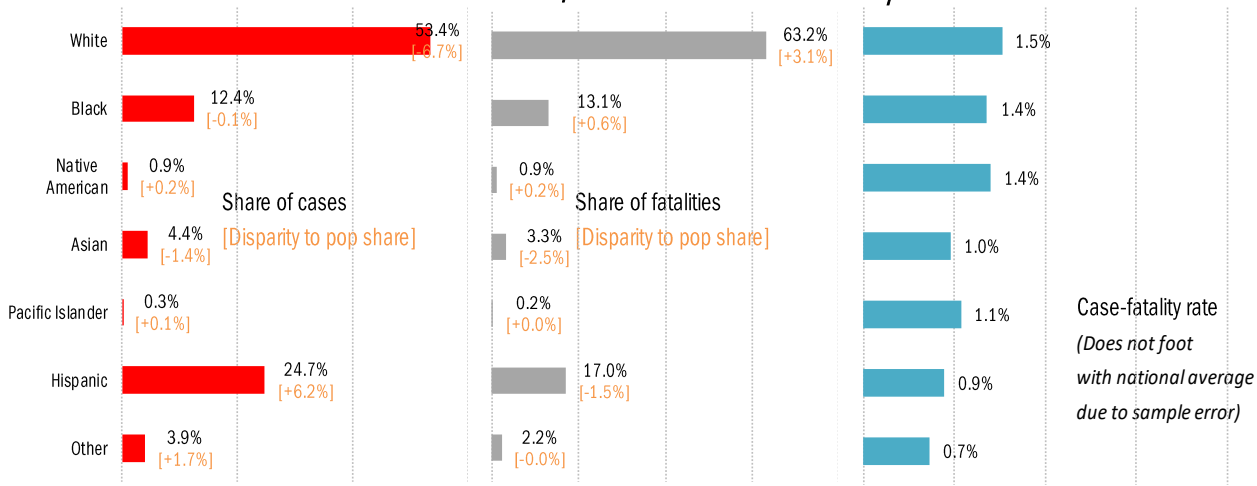
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



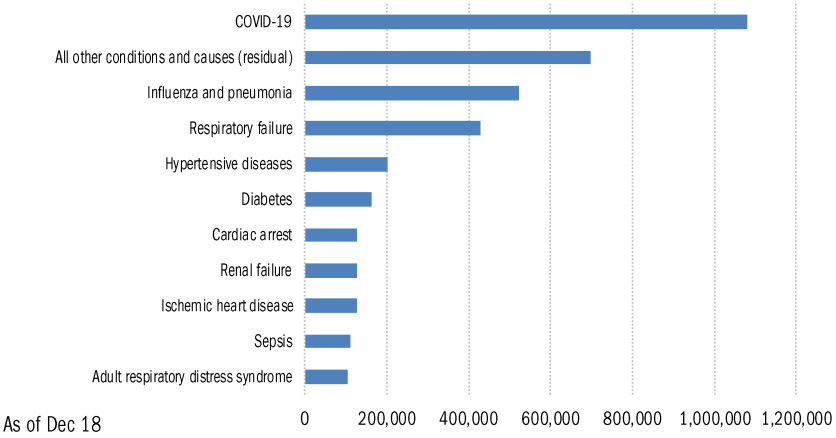
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Dec 18

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

[Sudden cardiac death risk in contact sports increased by myocarditis: a case series]
Grégoire Massoullié et al.
European Heart Journal Case Reports
March 1, 2021

[Update on the Damar Hamlin piece]
Alex Berenson
Unreported Truths
January 3, 2023

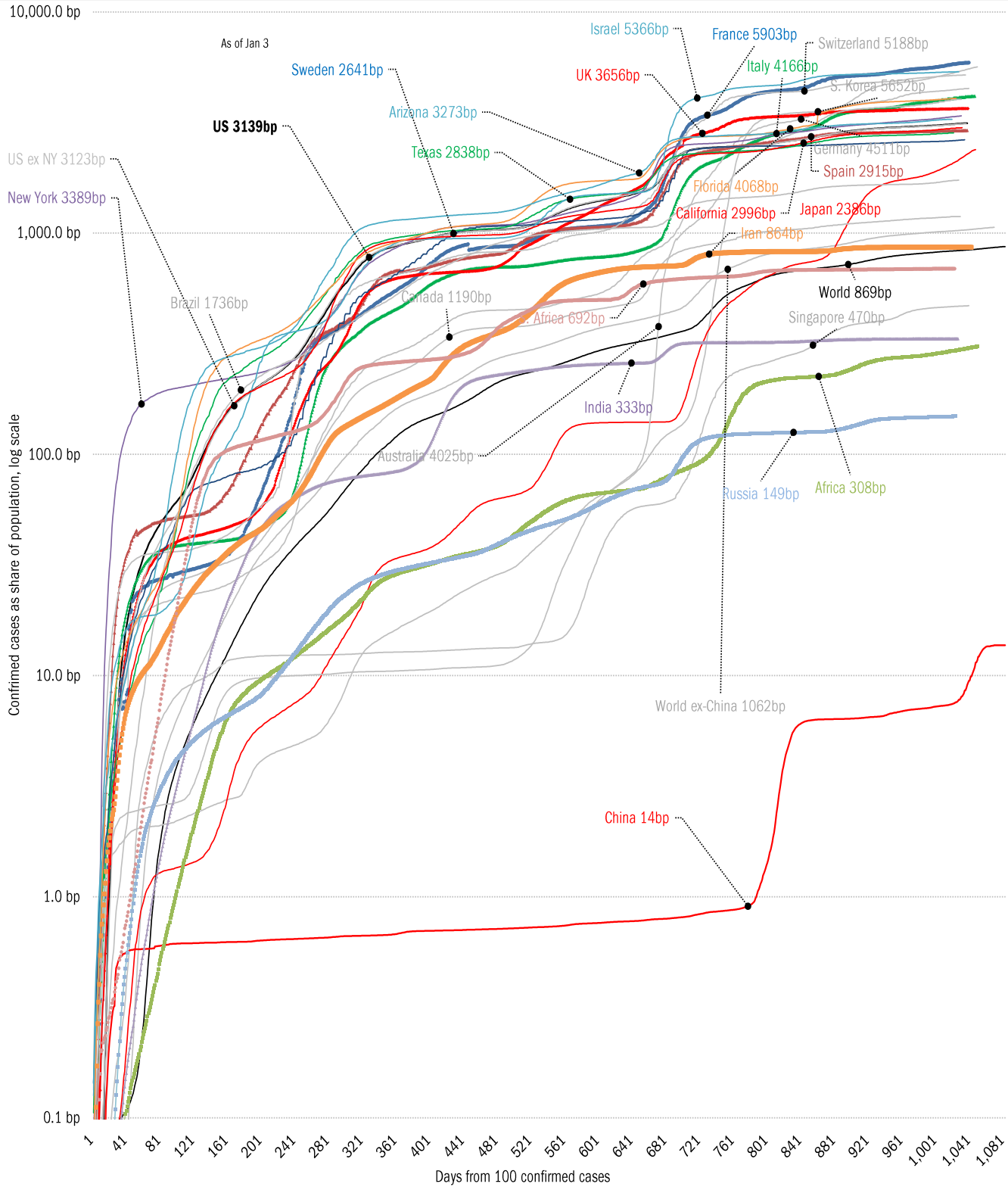
[On Damar Hamlin, mRNA shots, and spin]
Alex Berenson
Unreported Truths
January 3, 2023

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

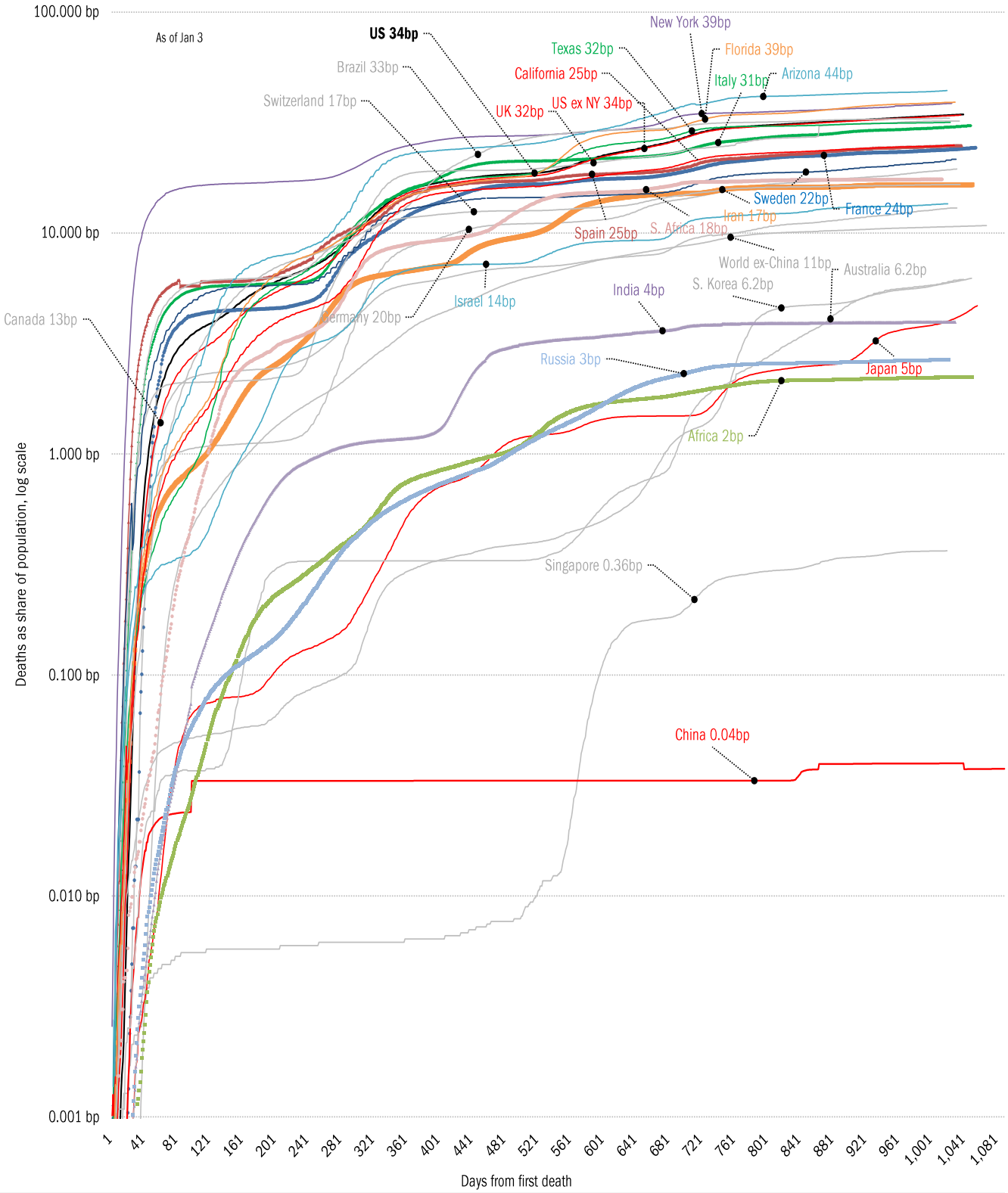
Share of infected population from first day with 100 confirmed cases, log scale



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

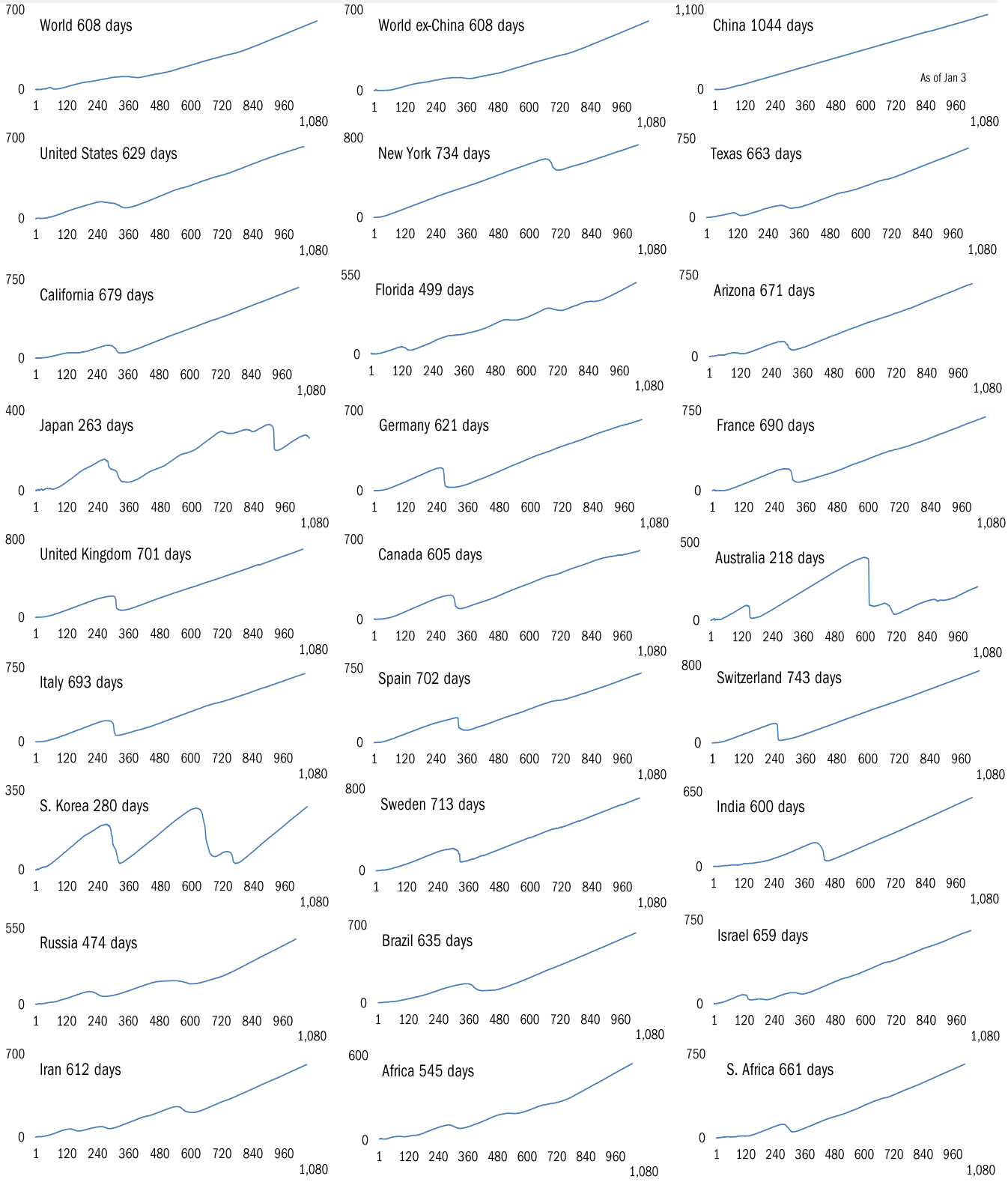


Source: Johns Hopkins, TrendMacro calculations

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

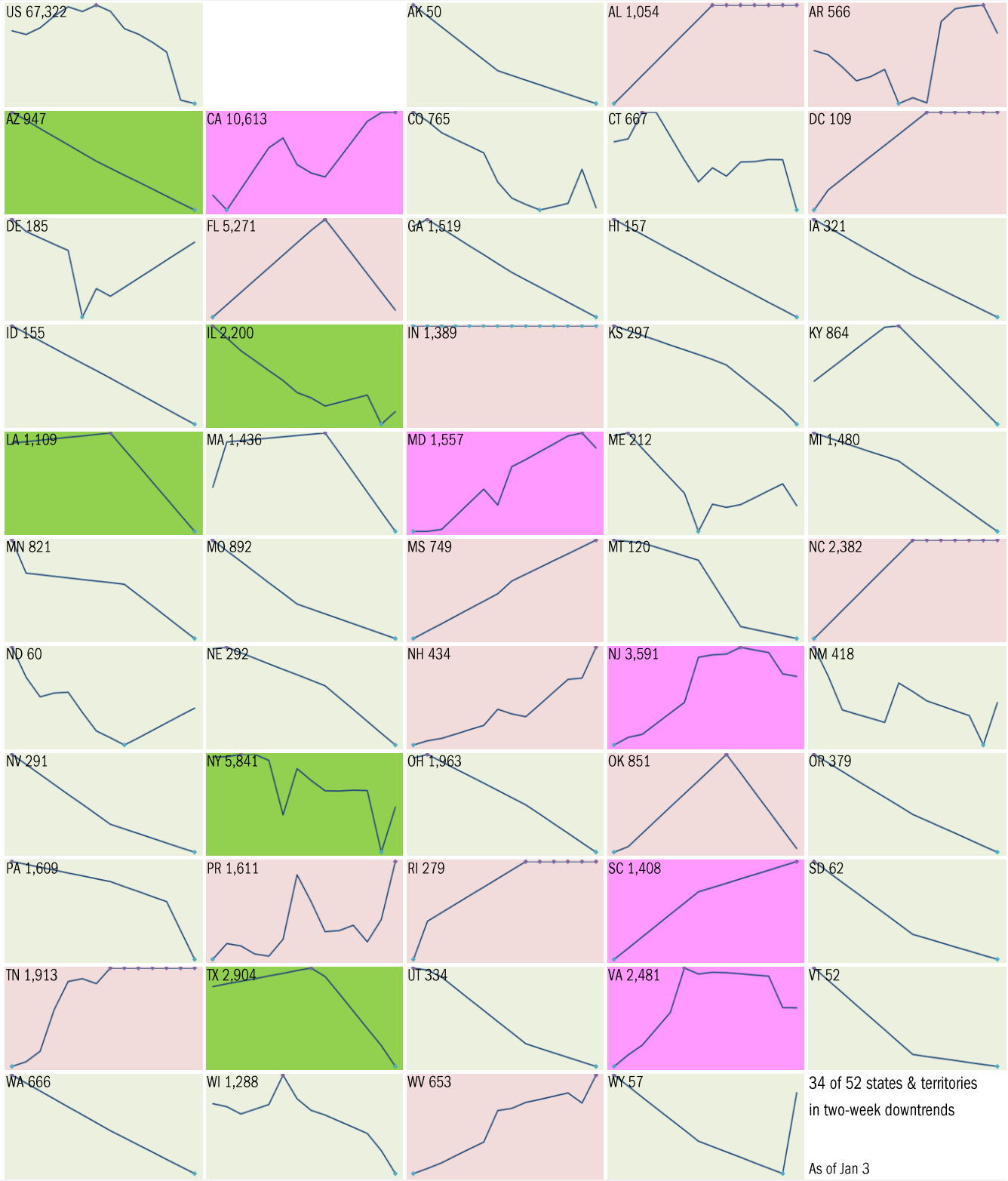


Source: Johns Hopkins, TrendMacro calculations

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

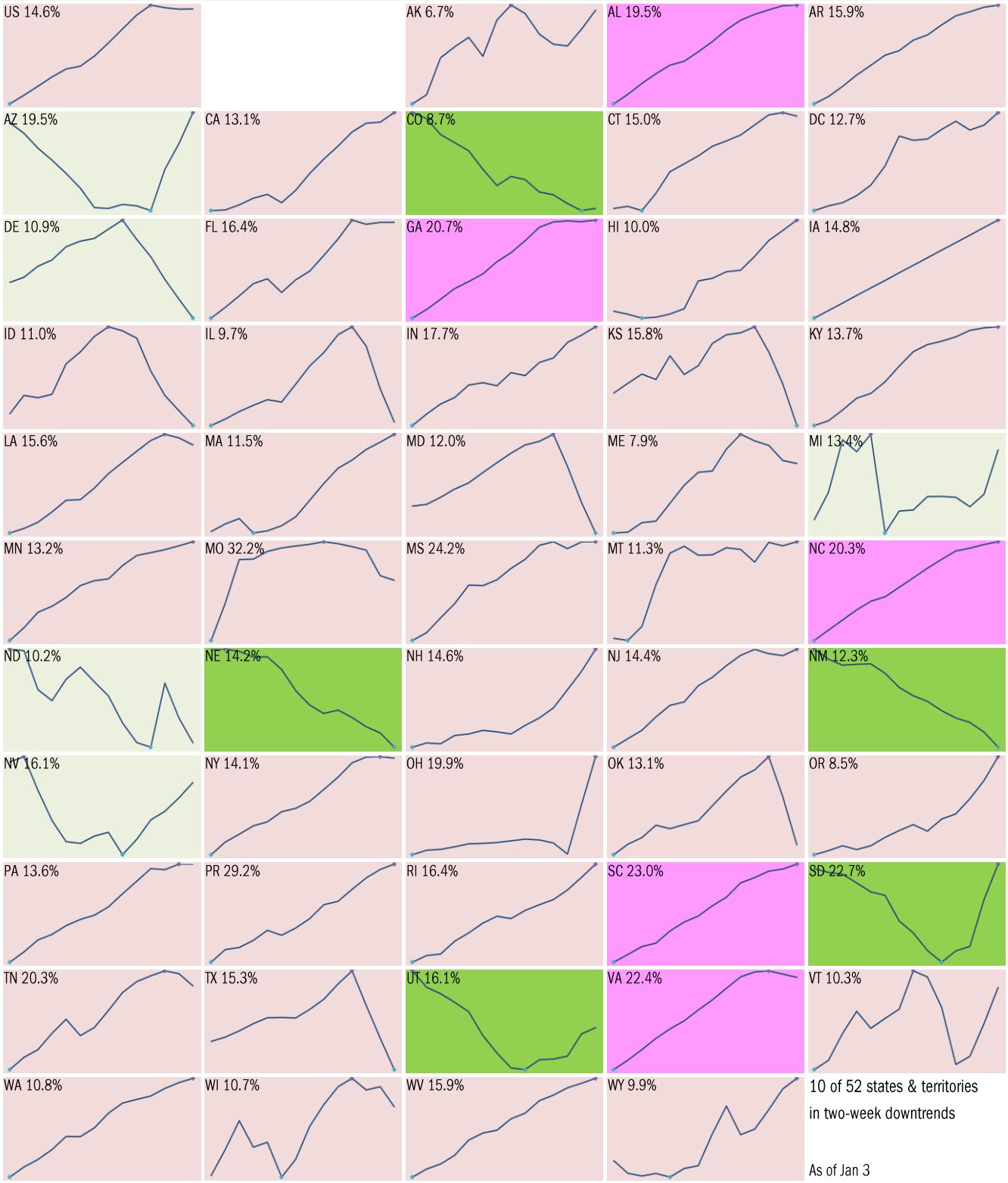


Source: Johns Hopkins, TrendMacro calculations

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

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

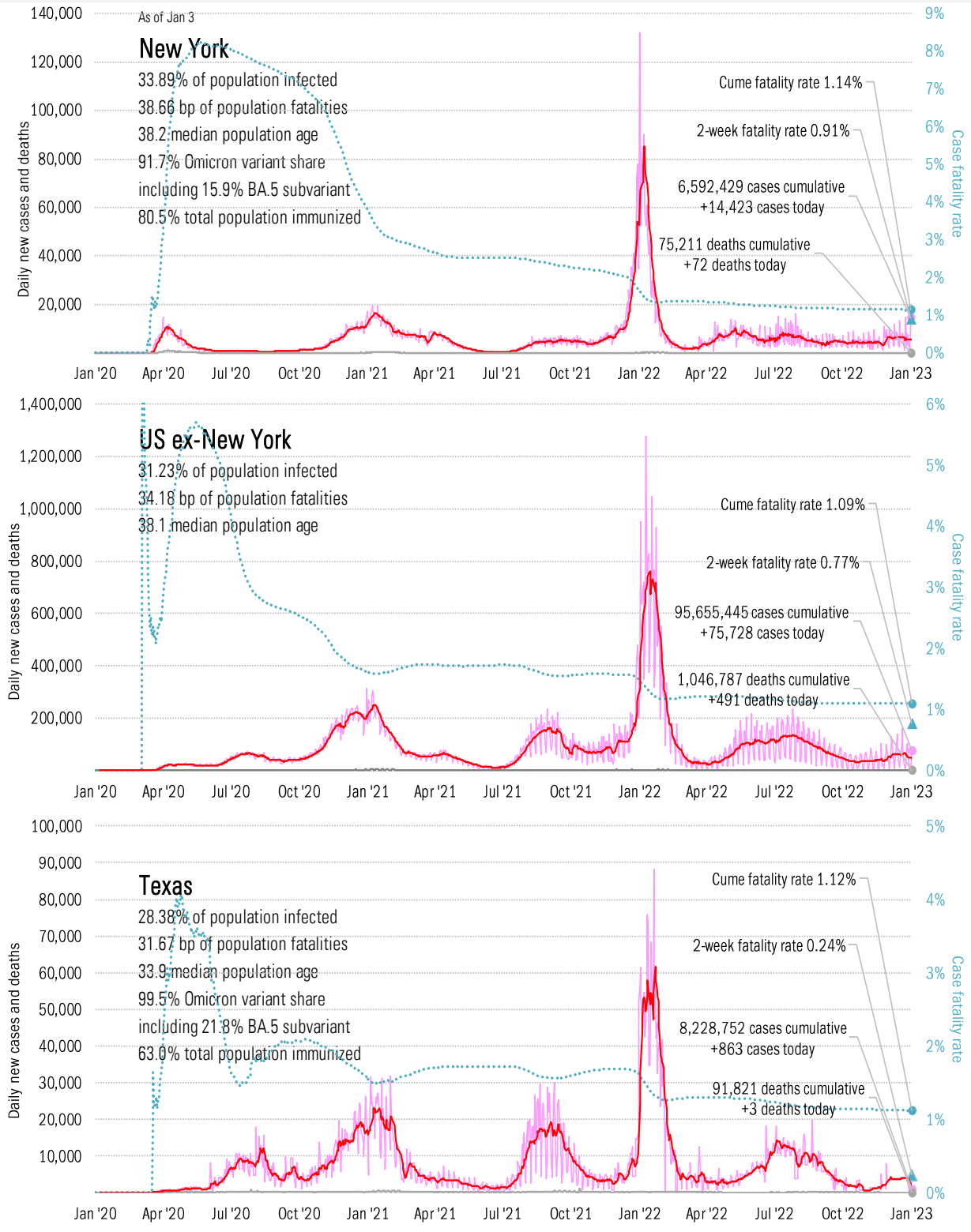
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

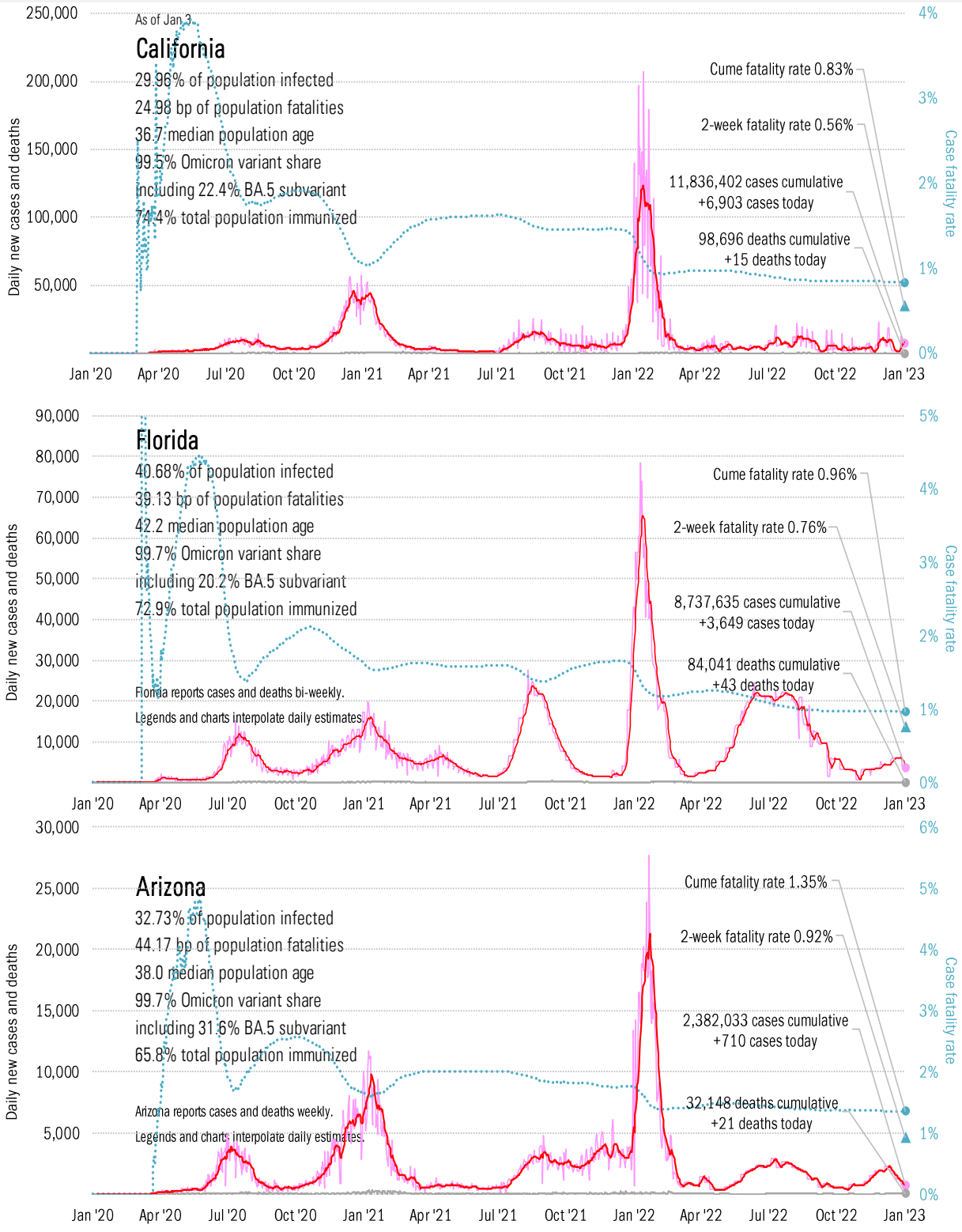
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

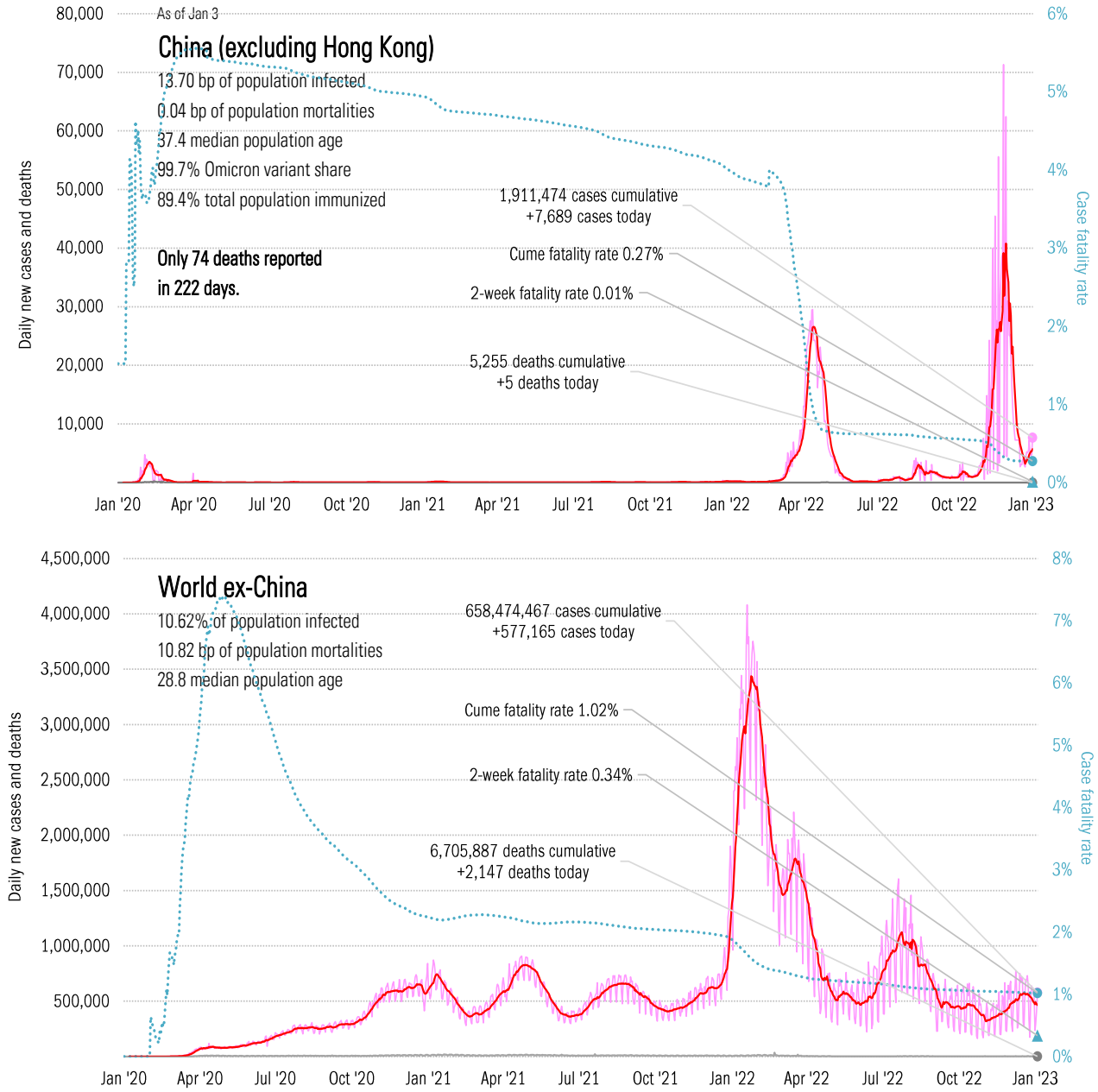
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

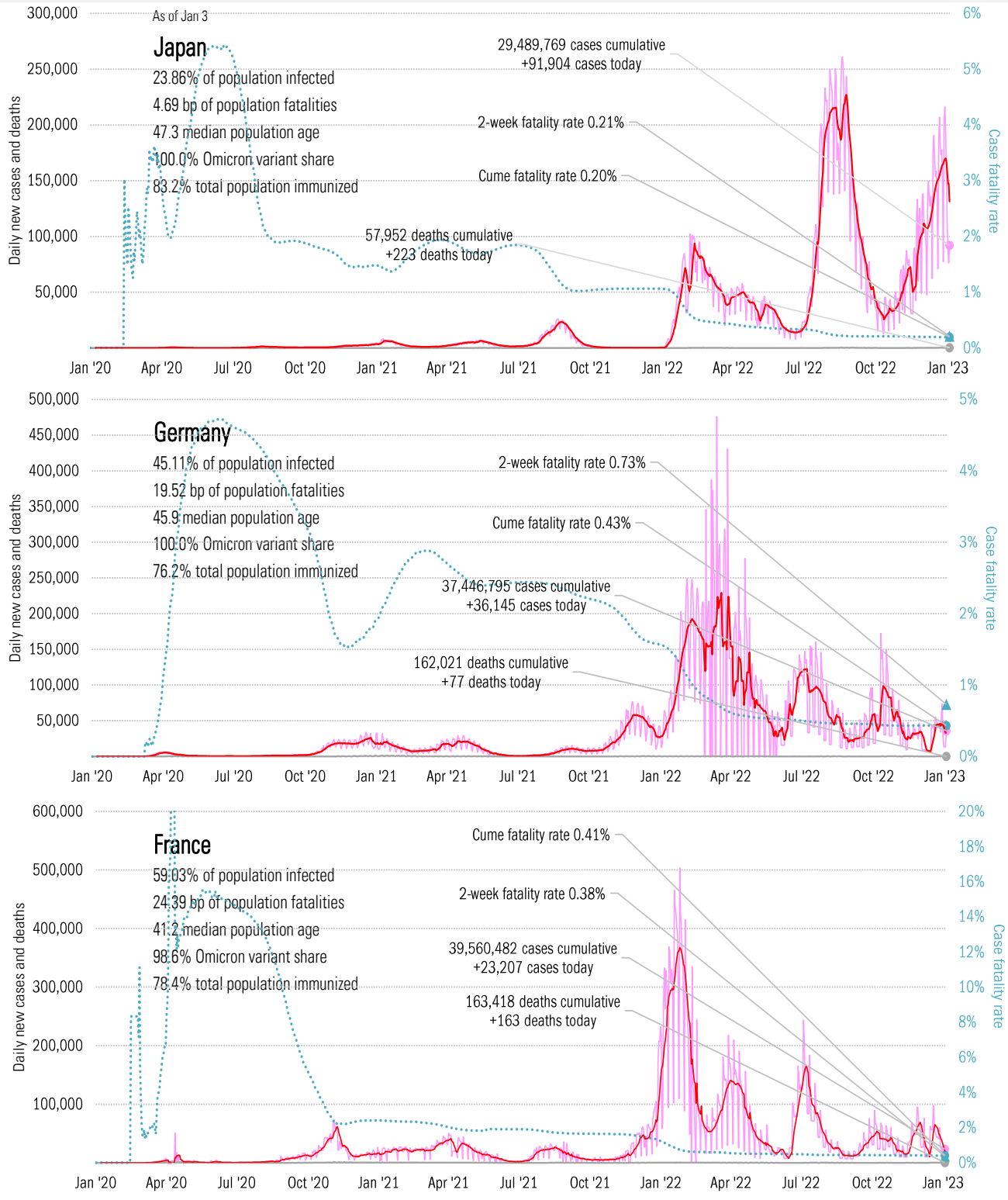
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, China CDC, TrendMacro calculations

Impact in the largest economies

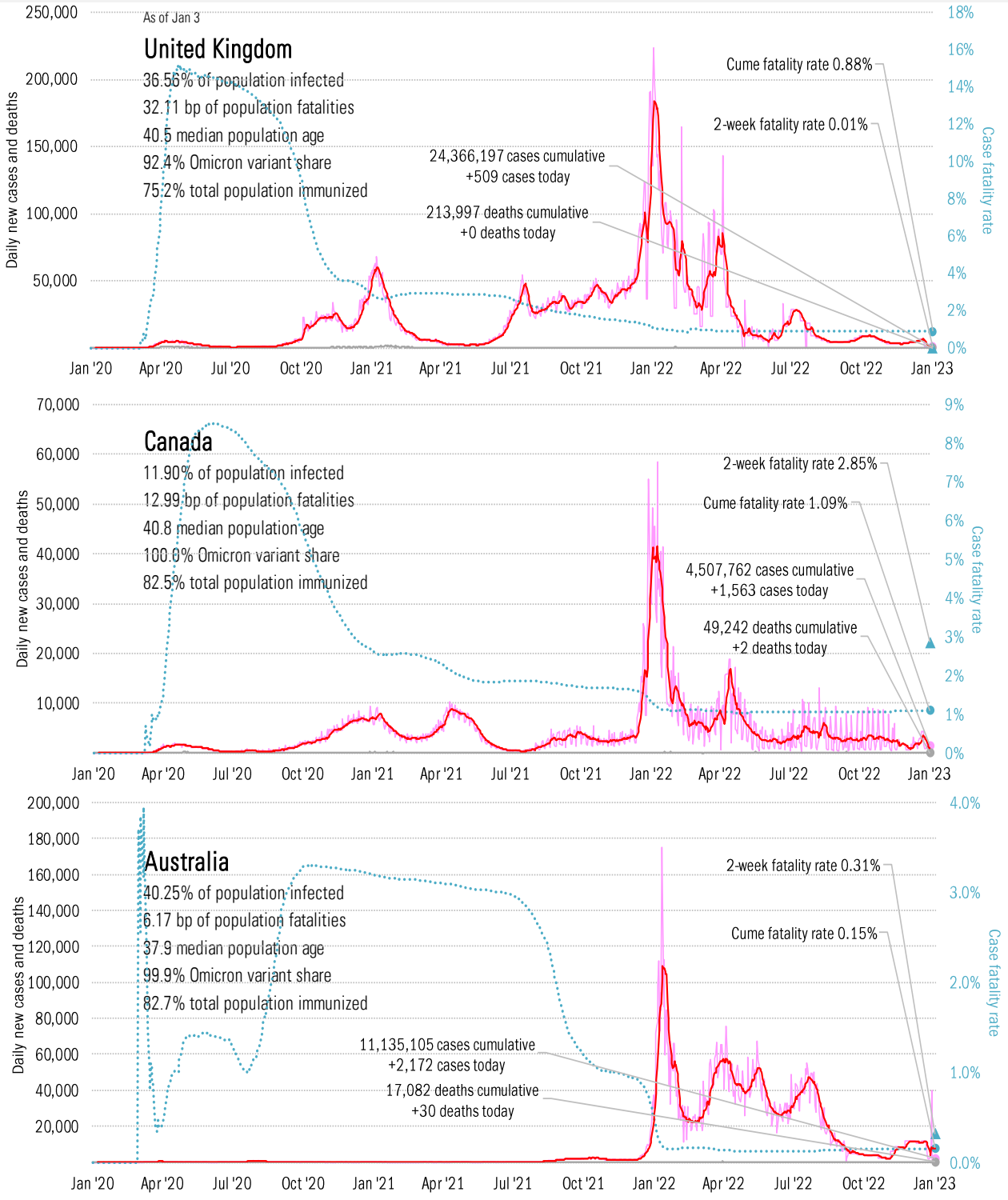
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

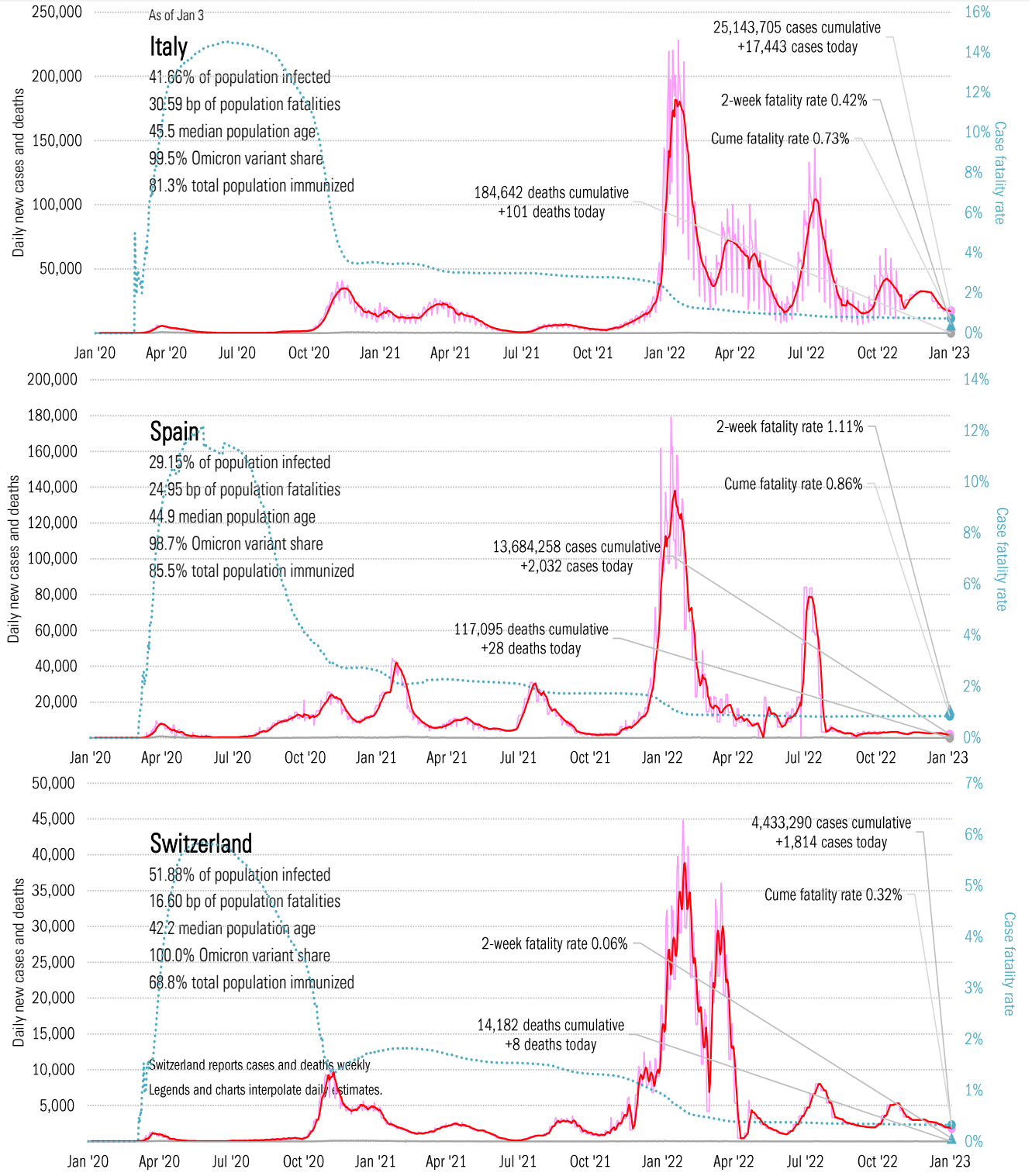
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

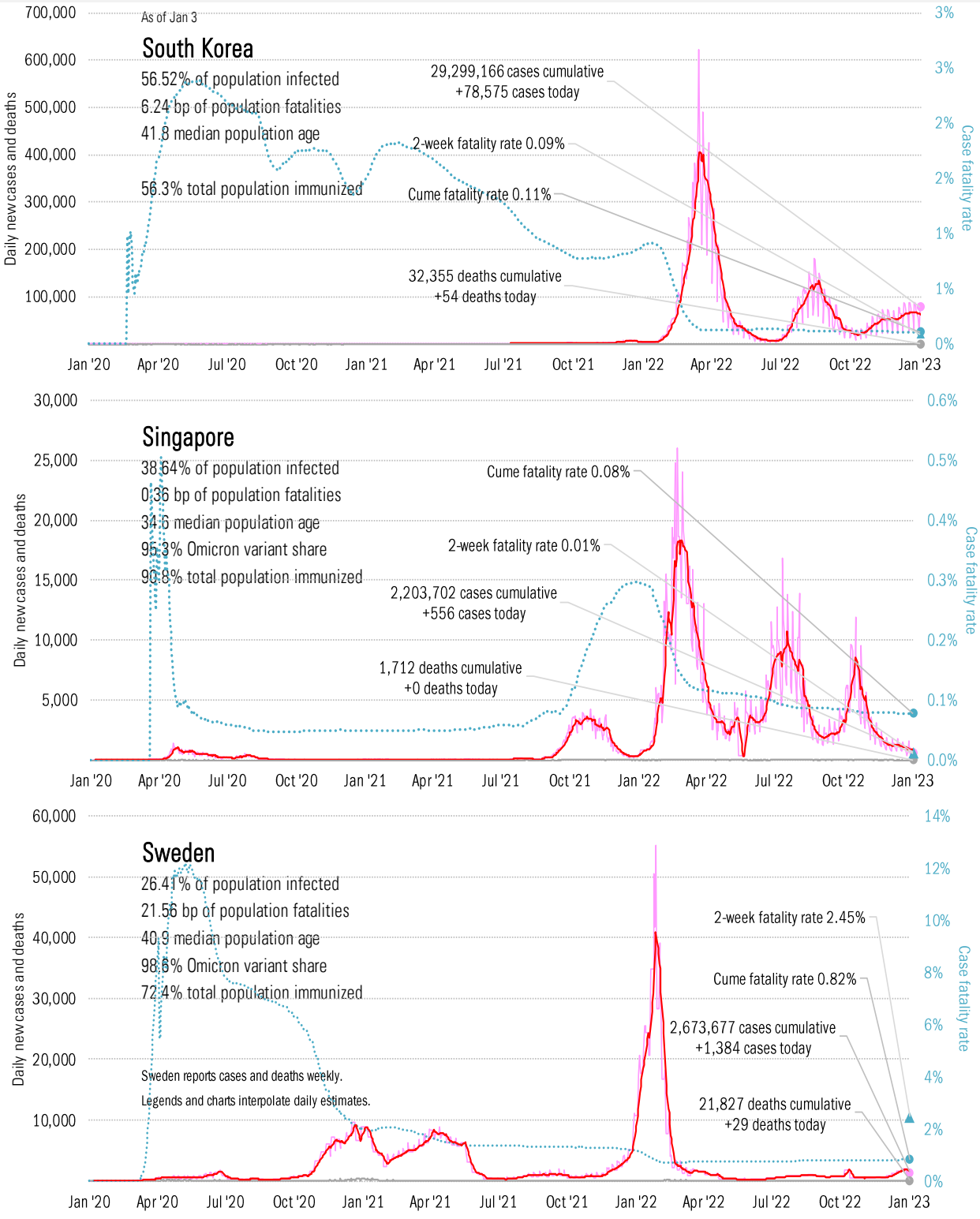
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

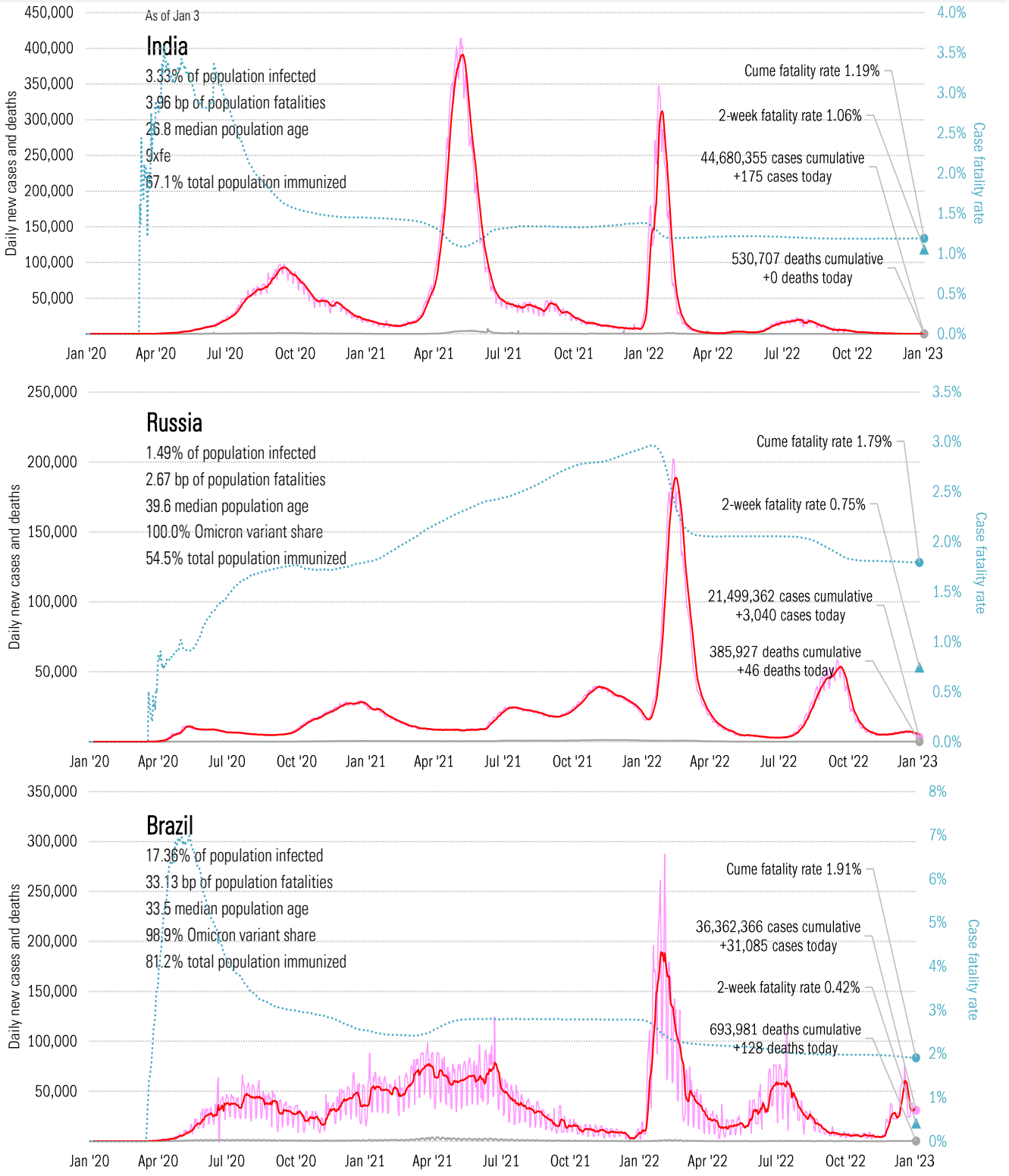
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

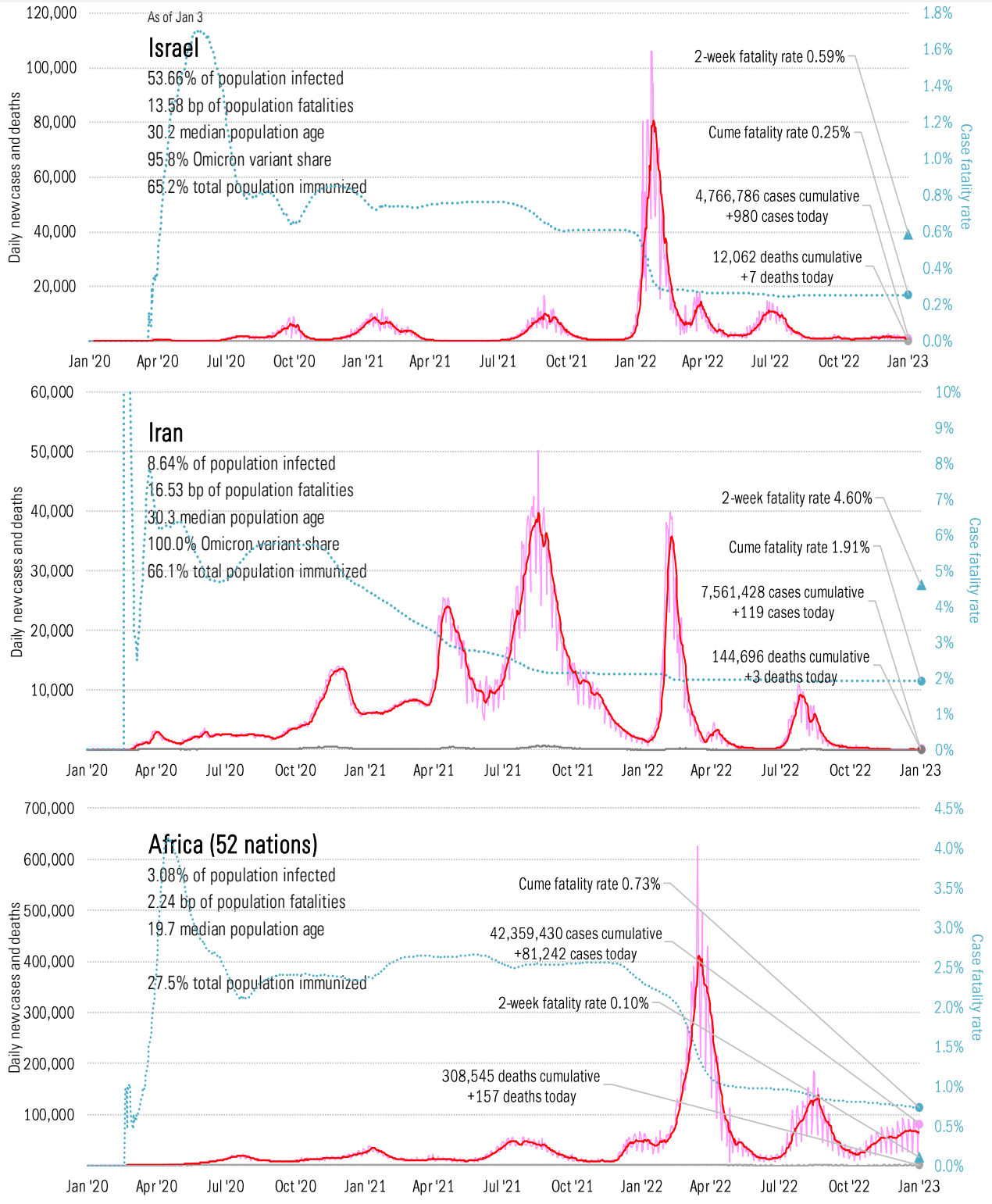
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

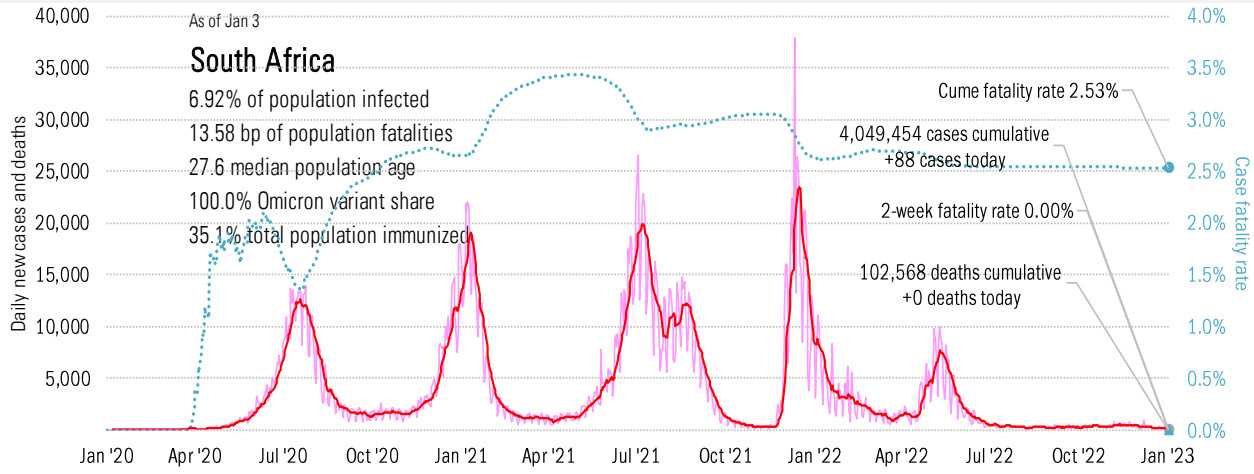
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations