Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

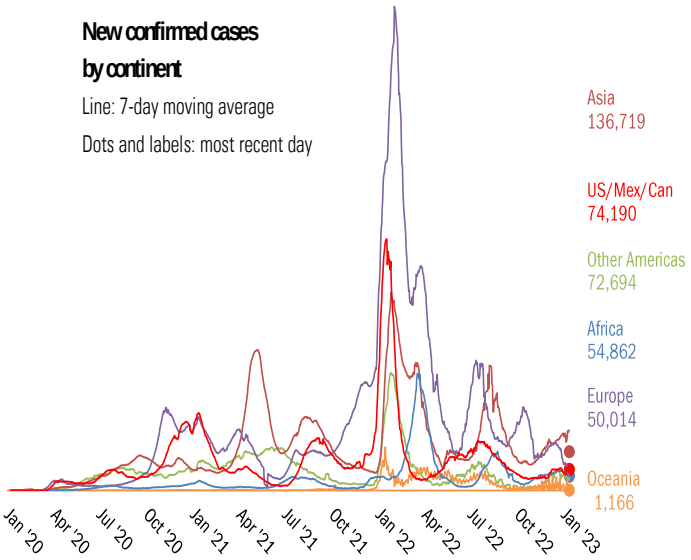
Wednesday, January 11, 2023

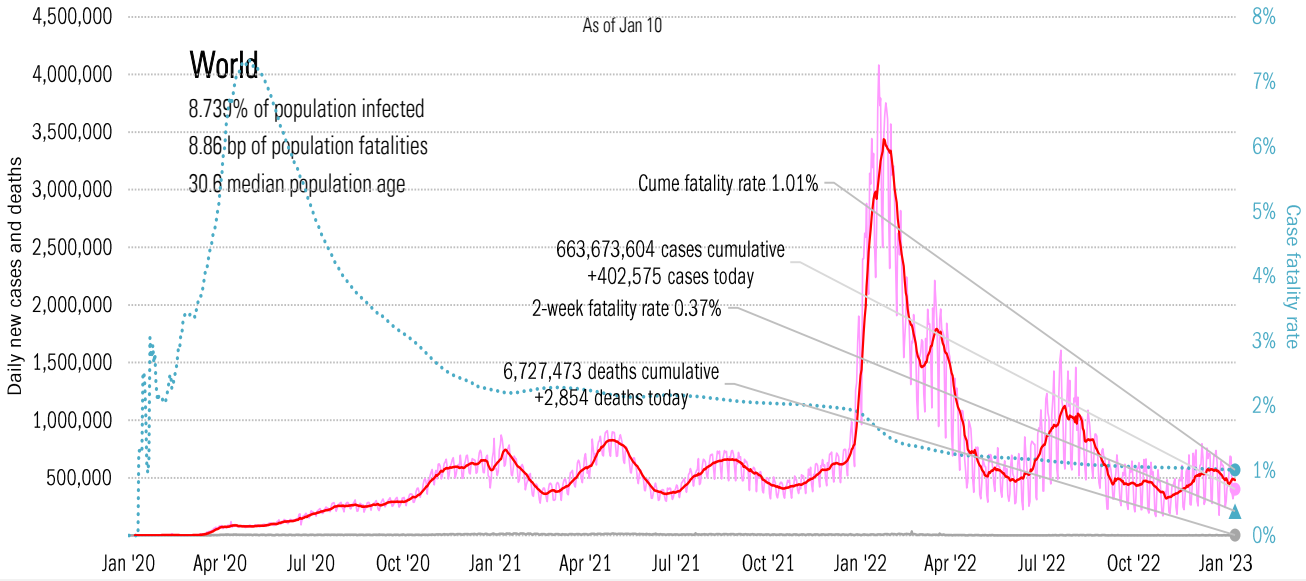
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	78,982	Thailand	1,018
Brazil	75,218	United States	591
United States	72,114	Germany	269
Korea, South	54,343	Japan	253
Thailand	29,164	Brazil	206
Taiwan*	25,049	France	115
Germany	22,119	Italy	111
Italy	19,425	Korea, South	76
France	11,773	Spain	53
China	7,181	Russia	46
	395,369		2,738





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

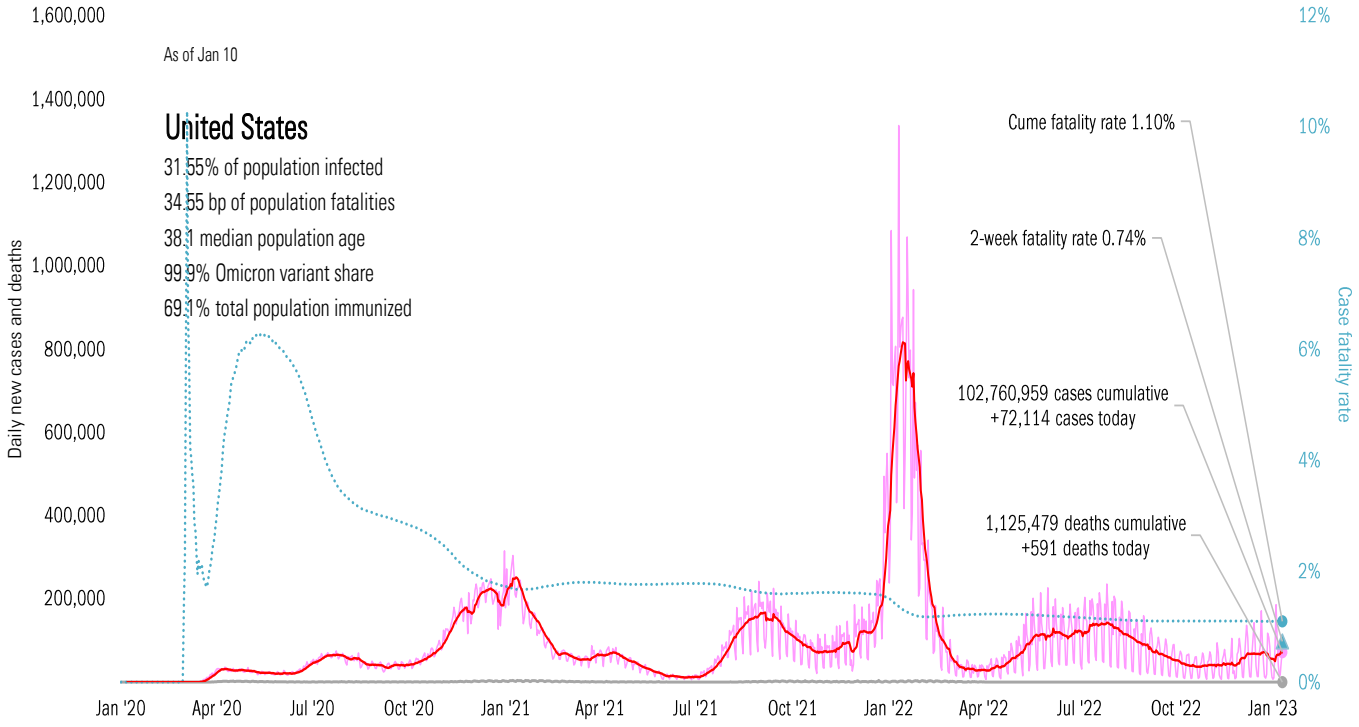
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	11,536	NY	92	NE	26	CA	11,885,432	CA	99,027	TX	574,070	RI	89%	VA	126%
NY	3,826	IL	45	NH	27	TX	8,269,554	TX	91,962	CA	548,518	DE	88%	NC	93%
NC	3,070	FL	39	ME	15	FL	7,393,712	FL	84,176	FL	518,335	WA	87%	NM	93%
VA	2,561	MD	27	RI	12	NY	6,631,268	NY	75,566	NY	340,348	MA	87%	TX	90%
NJ	2,150	MI	24	LA	97	IL	3,981,275	PA	49,034	OH	238,085	NH	86%	NH	87%
OH	1,985	MA	22	WY	5	PA	3,433,278	GA	41,520	GA	236,644	MO	84%	AL	86%
GA	1,971	SC	22	VT	6	NC	3,359,796	OH	41,033	PA	222,722	NC	84%	MA	86%
SC	1,881	CA	21	AS	0	OH	3,321,463	MI	41,001	IL	206,572	DC	83%	MS	85%
MA	1,707	PA	20	GU	0	MI	3,008,261	IL	40,747	MI	176,568	MN	83%	NE	84%
TX	1,631	VA	19	MP	0	GA	2,998,991	NJ	35,621	NJ	155,736	AK	82%	VT	84%
	32,318		332		188		54,283,030		599,687		3,217,598				
All states	56,592		591		4,826	All states	102,760,959		1,125,479		5,836,639	All states	70%		67%
Top ten	57%		56%		4%	Top ten	54%		55%		55%	Median	79%		79%

Some states not reporting

Five most improved US states

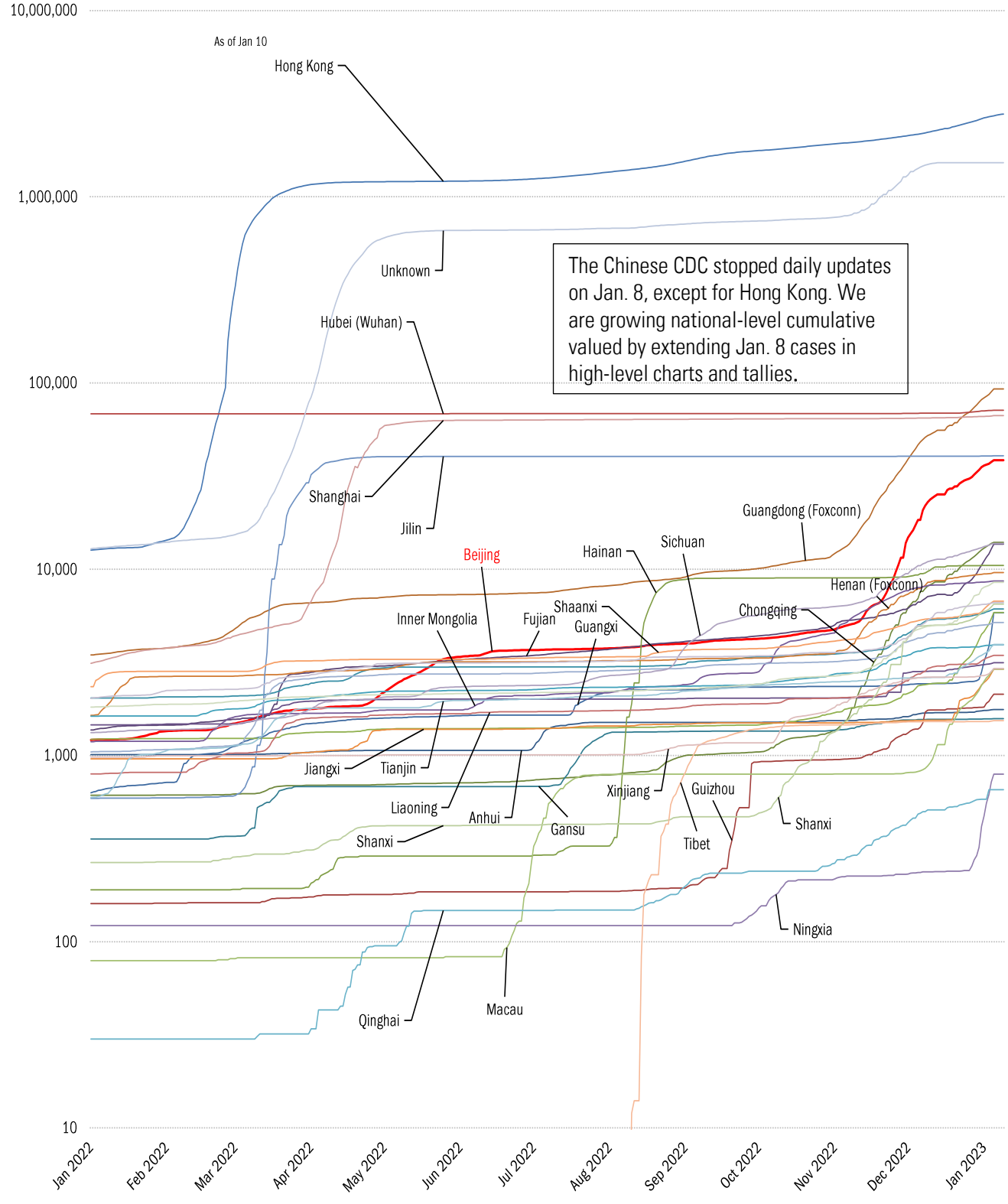
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
NY	-7,875	CA	-63	TX	-219
NJ	-5,492	CO	-20	FL	-166
CA	-3,724	NH	-2	NY	-146
WI	-1,171	NM	-2	NJ	-116
CO	-566	AK	0	NC	-102



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

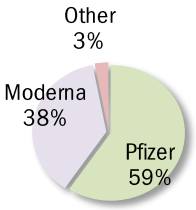
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	681,672,640				+0.183 million
				Of which boosters:	+0.157 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	276,944,352	83%	236,067,457	71%	+0.018 million
Age 12 to 17	18,423,075	73%	15,770,112	62%	+0.001 million
Age 18 to 64	184,170,530	91%	156,546,552	77%	+0.010 million
Age 65 and over	60,993,756	100%	53,409,974	97%	+0.003 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%	90.1%
Japan	83.2%	84.4%
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

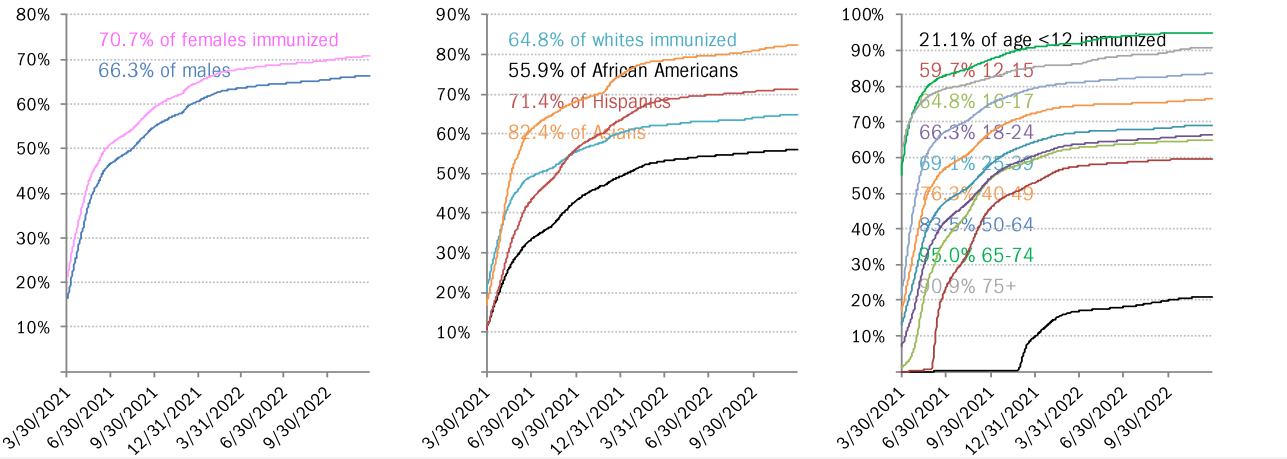
"Immunity" = two doses

Best
Middle
Worst

As of Jan 6

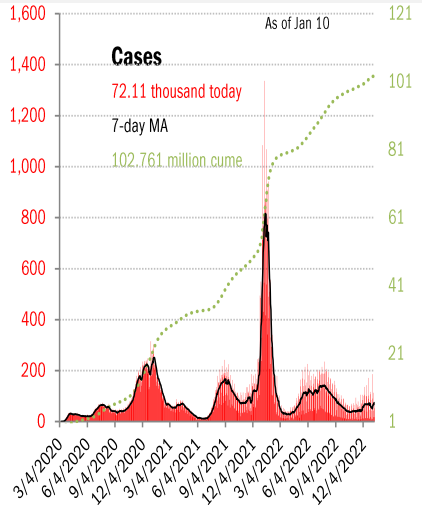
					WI					ME
					74.9%					95.0%
					68.0%					83.1%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
84.9%	63.7%	68.1%	69.1%	78.5%	78.9%	69.3%		94.1%	95.0%	87.5%
75.8%	56.3%	59.0%	58.4%	71.9%	71.0%	62.2%		80.5%	85.3%	71.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.3%	77.3%	60.8%	83.5%	70.5%	64.2%	65.6%	90.2%	94.3%	95.0%	
72.2%	63.6%	52.9%	66.0%	64.2%	57.6%	60.3%	73.0%	78.9%	83.9%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
84.4%	75.0%	83.4%	73.2%	69.1%	68.7%	67.3%	90.7%	91.4%	95.0%	95.0%
74.4%	66.5%	73.2%	66.1%	58.9%	59.5%	59.6%	76.4%	79.4%	82.8%	87.4%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	77.2%	93.9%	75.9%	69.7%	64.3%	91.7%	70.8%	95.0%	87.9%	
	65.8%	74.9%	65.0%	56.7%	56.2%	66.8%	59.7%	85.5%	73.1%	
			OK	LA	MS	AL	GA			
			74.4%	62.7%	61.5%	64.8%	68.2%			
			60.3%	54.9%	53.6%	53.0%	57.1%			
HI			TX					FL		PR
91.1%			76.1%					82.1%		95.0%
81.3%			63.1%					69.2%		86.7%

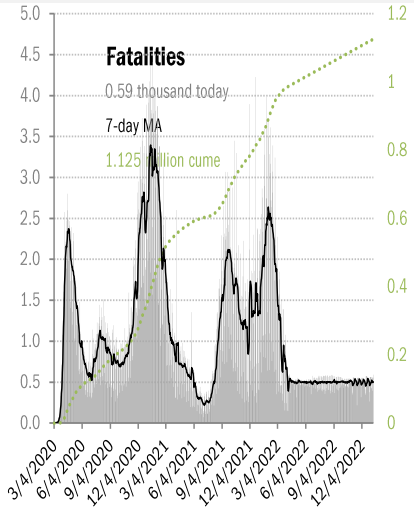
The demographics of US vaccination

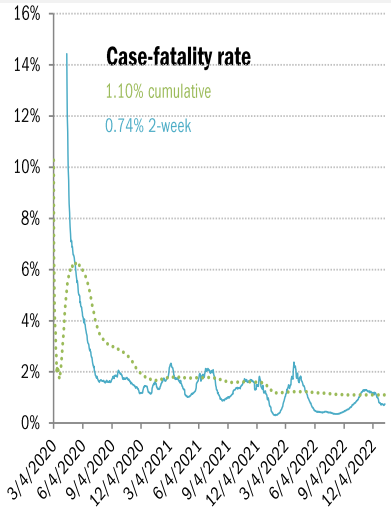


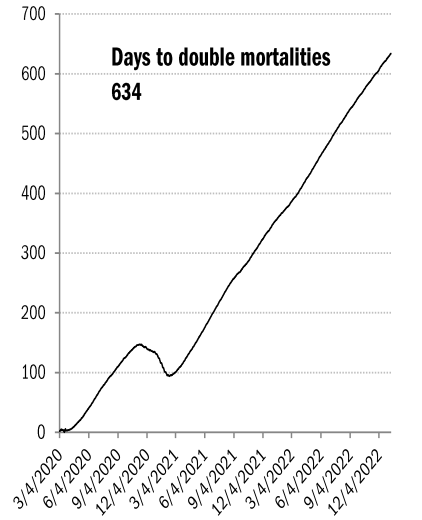
Source: CDC, CDC, Our World in Data, TrendMacro calculations

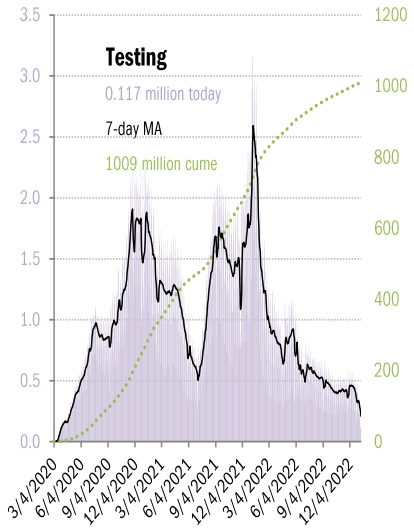
US deep-dive

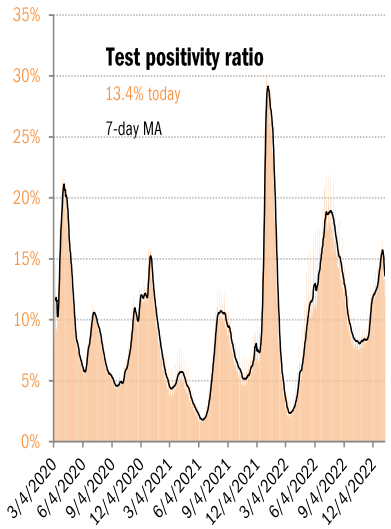


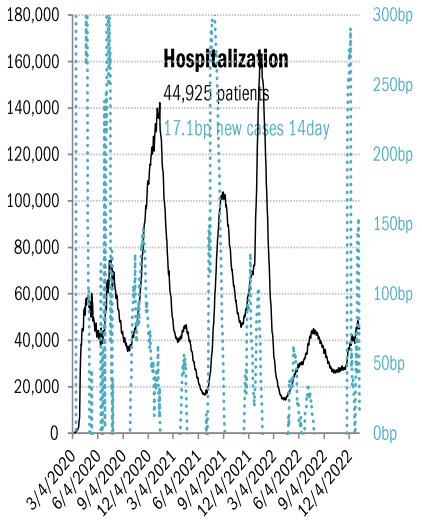


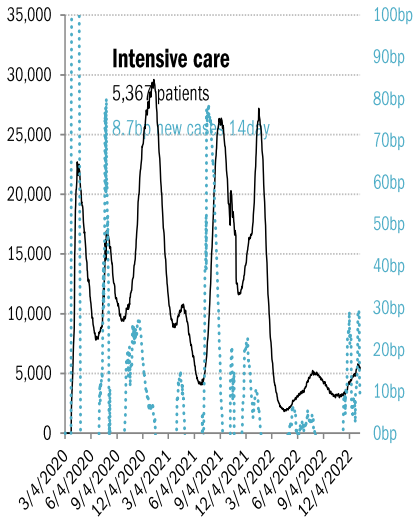


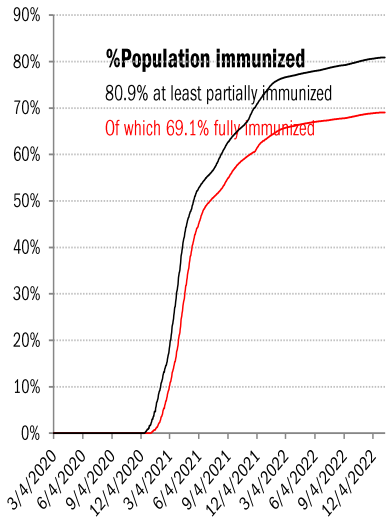












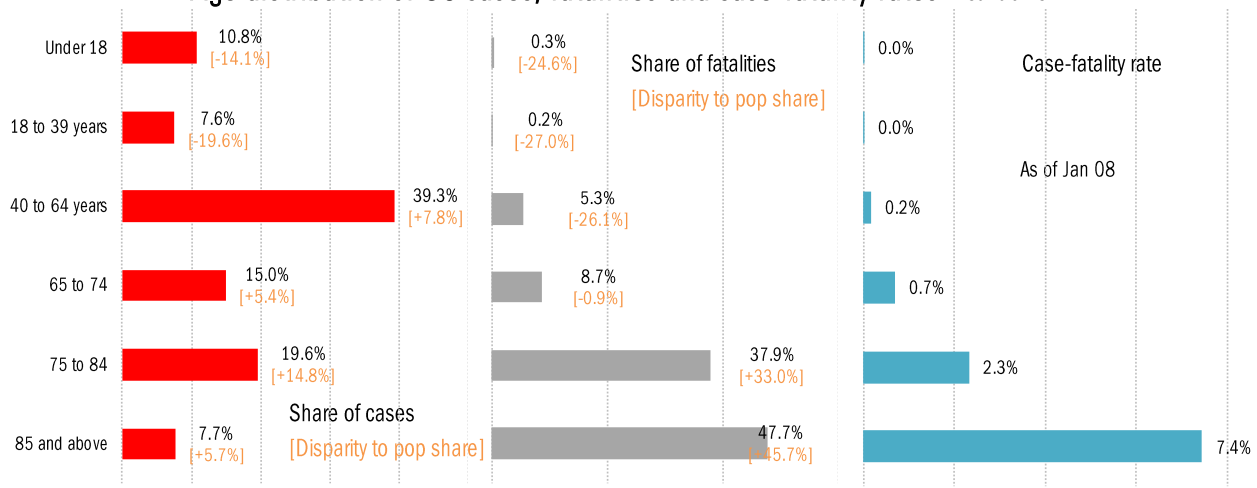
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

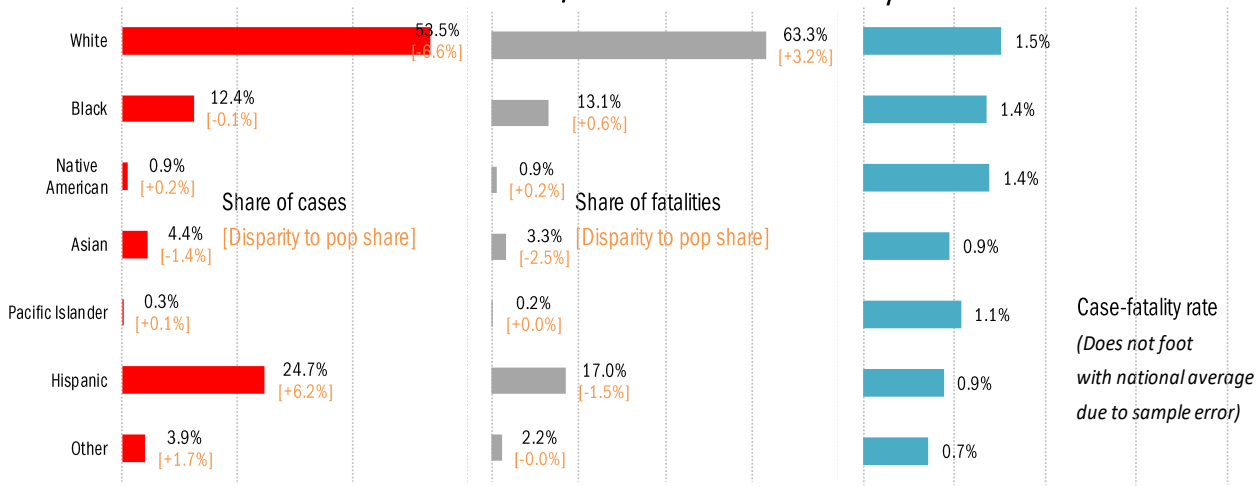
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



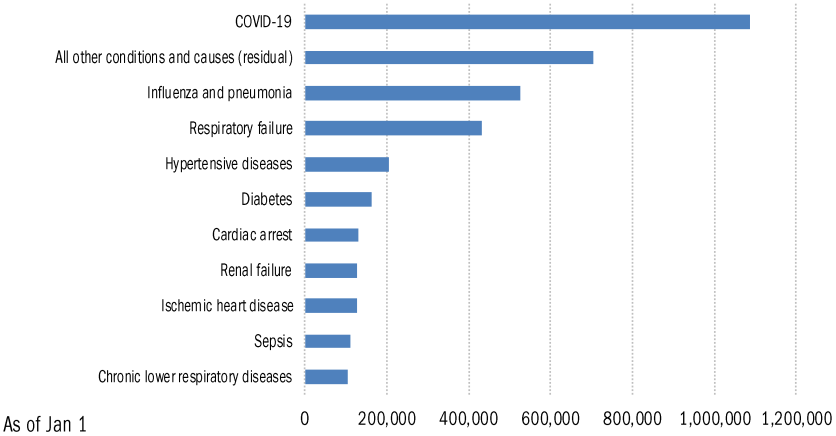
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



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

90% of people in China province infected with Covid, says local health official
The Guardian
January 9, 2023

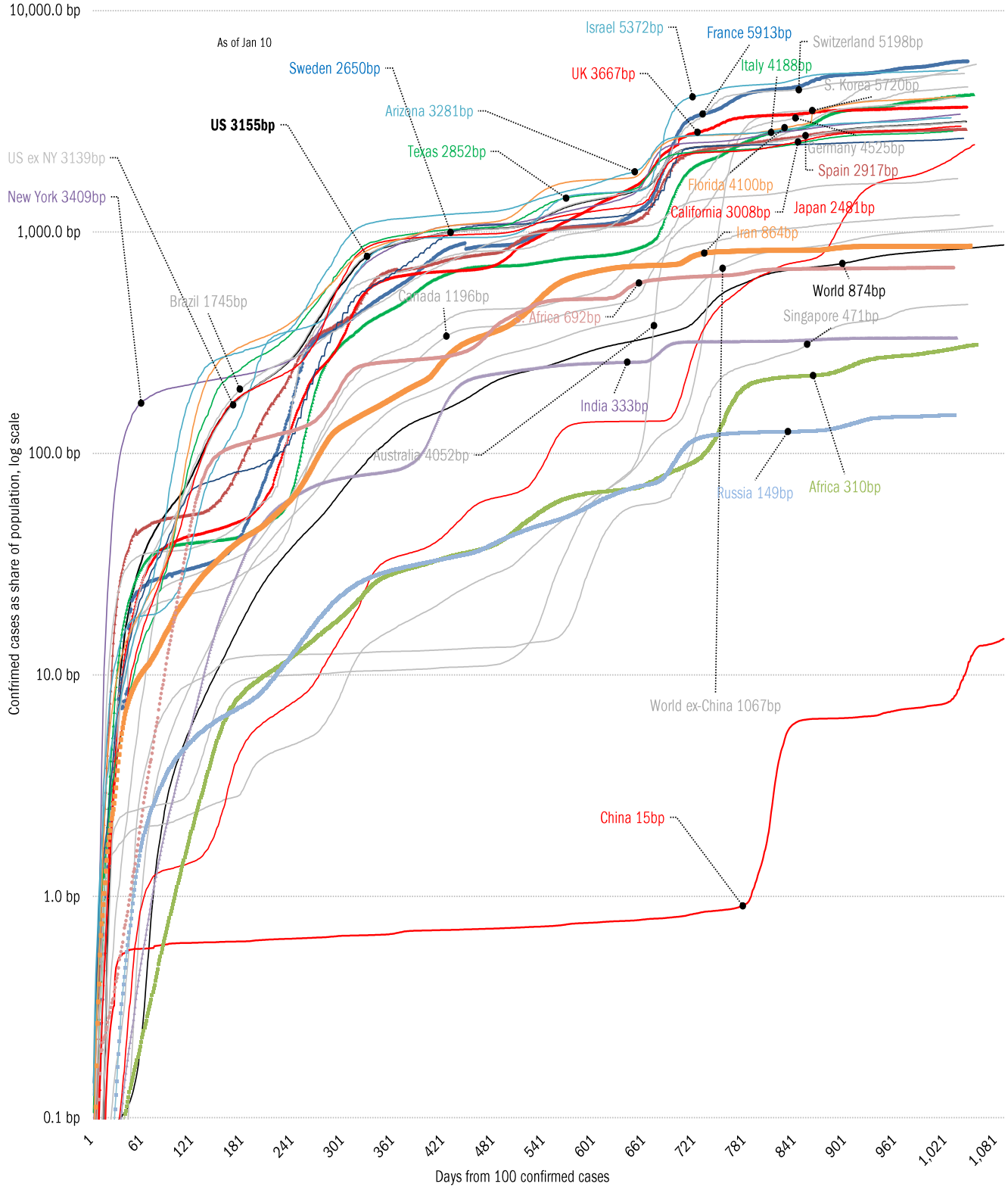
China Covid: More than 88 million people in Henan infected, official says
Nicholas Yong
BBC
January 9, 2023

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

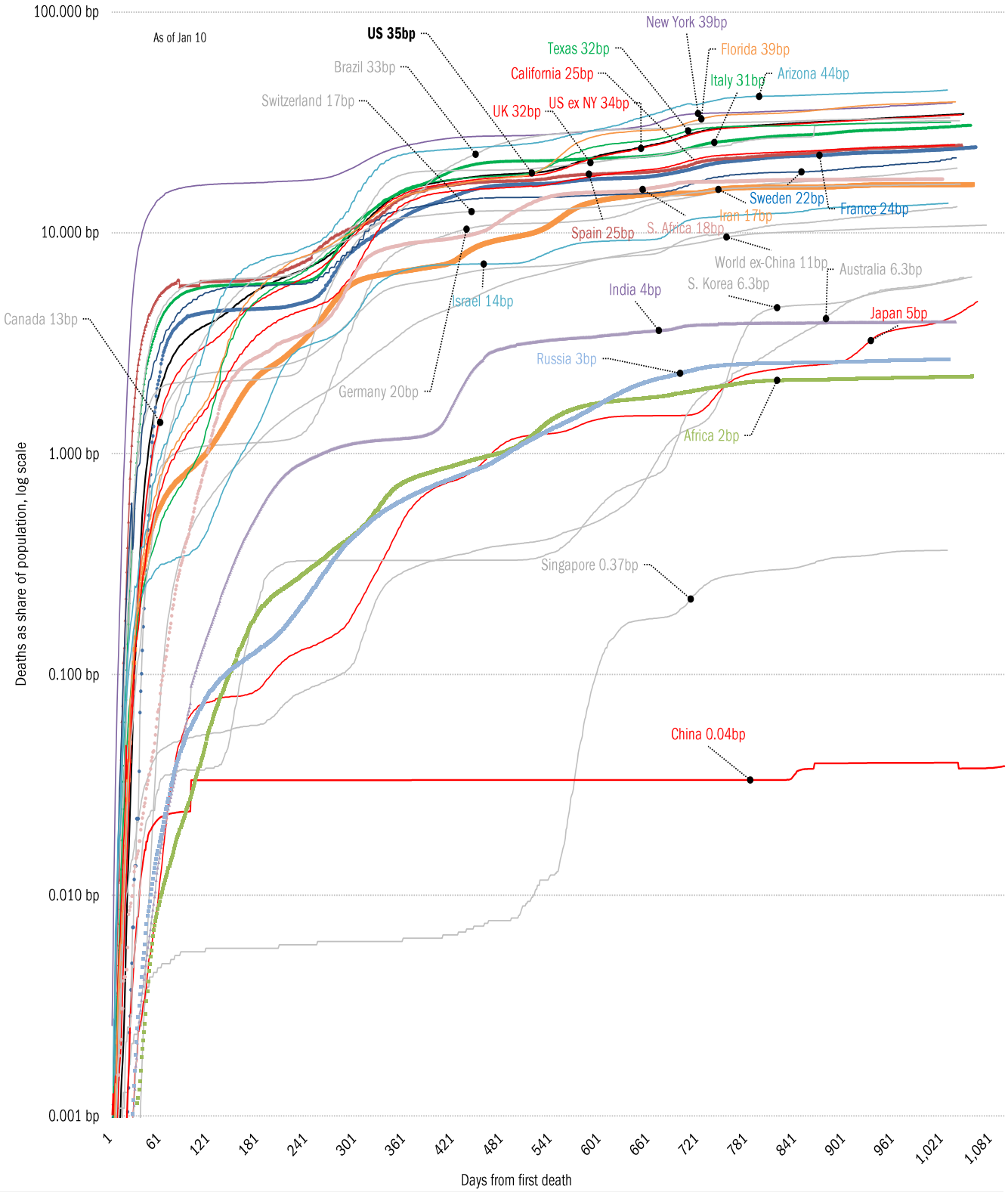
Share of infected population from first day with 100 confirmed cases, log scale



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

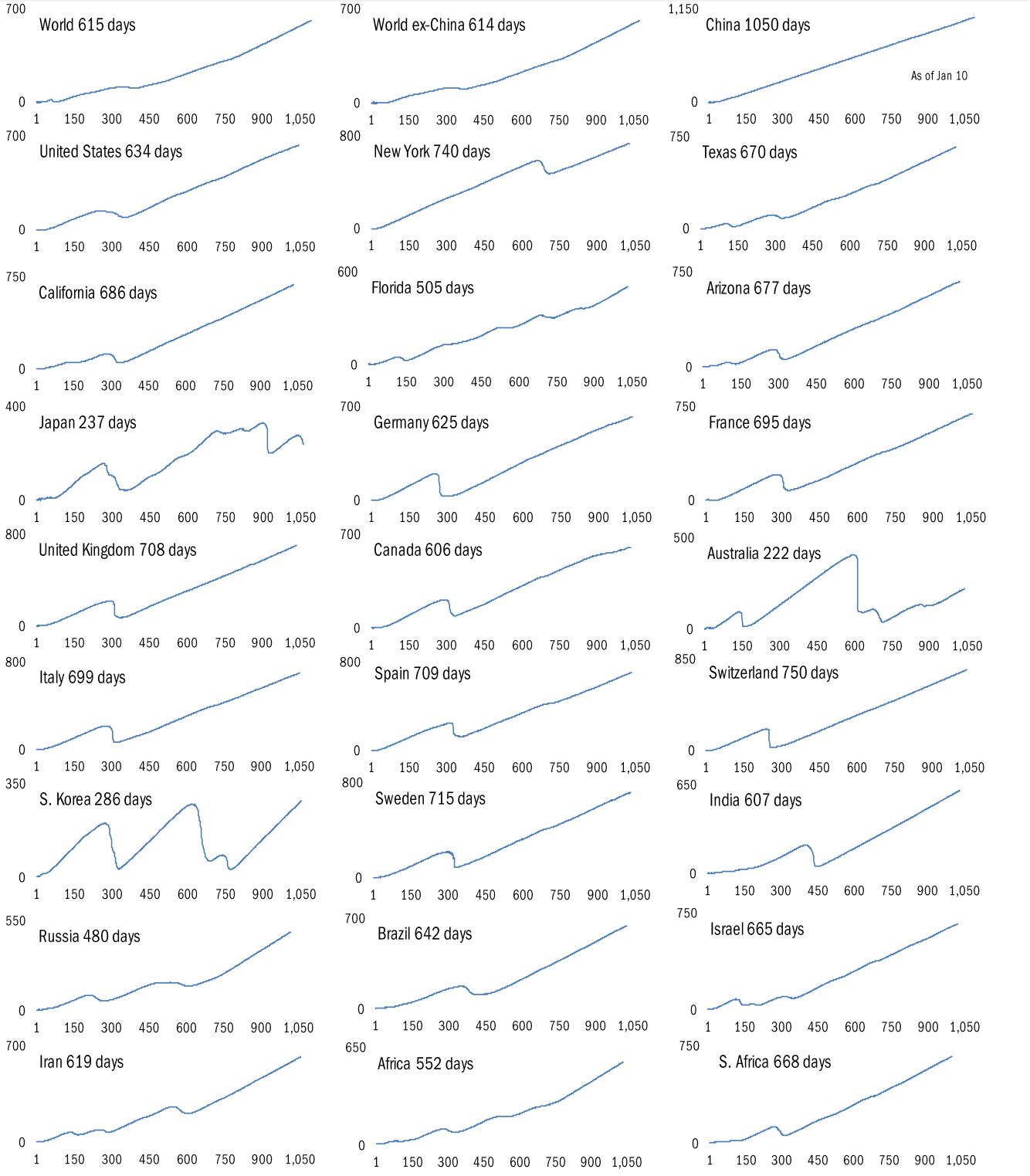


Source: Johns Hopkins, TrendMacro calculations

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

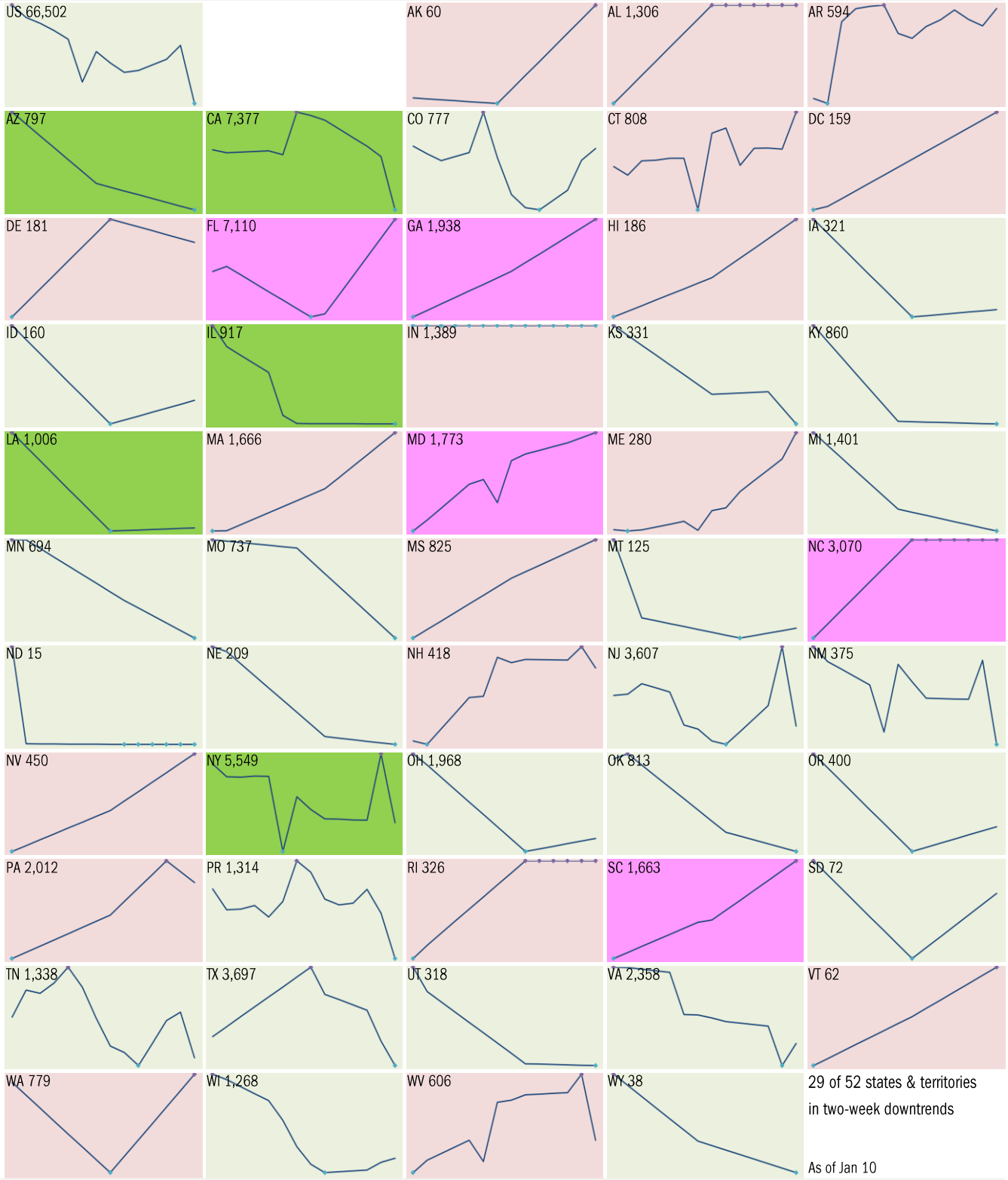


Source: Johns Hopkins, TrendMacro calculations

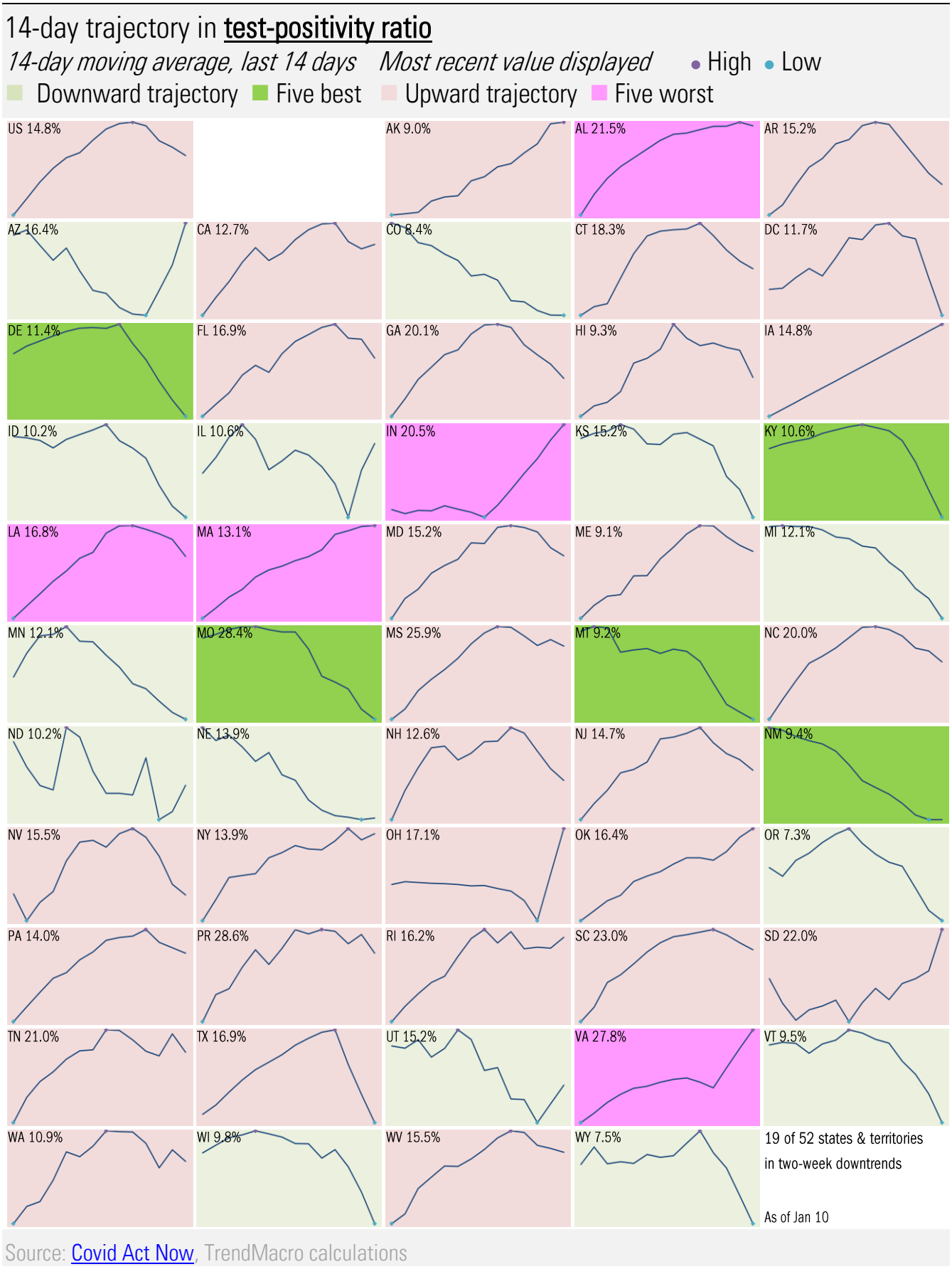
14-day trajectory in new cases

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

Downward trajectory | Five best | Upward trajectory | Five worst



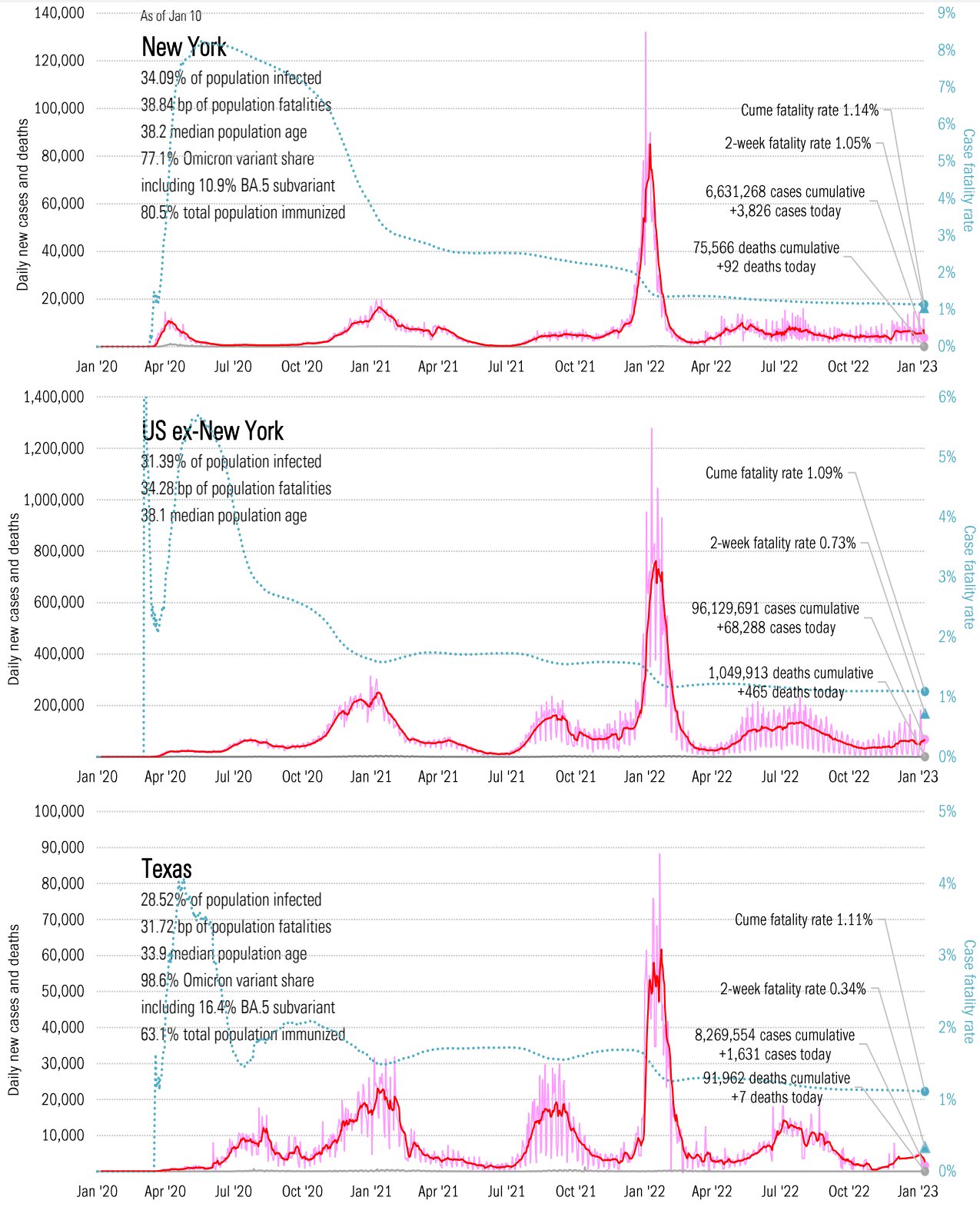
Source: Johns Hopkins, TrendMacro calculations



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

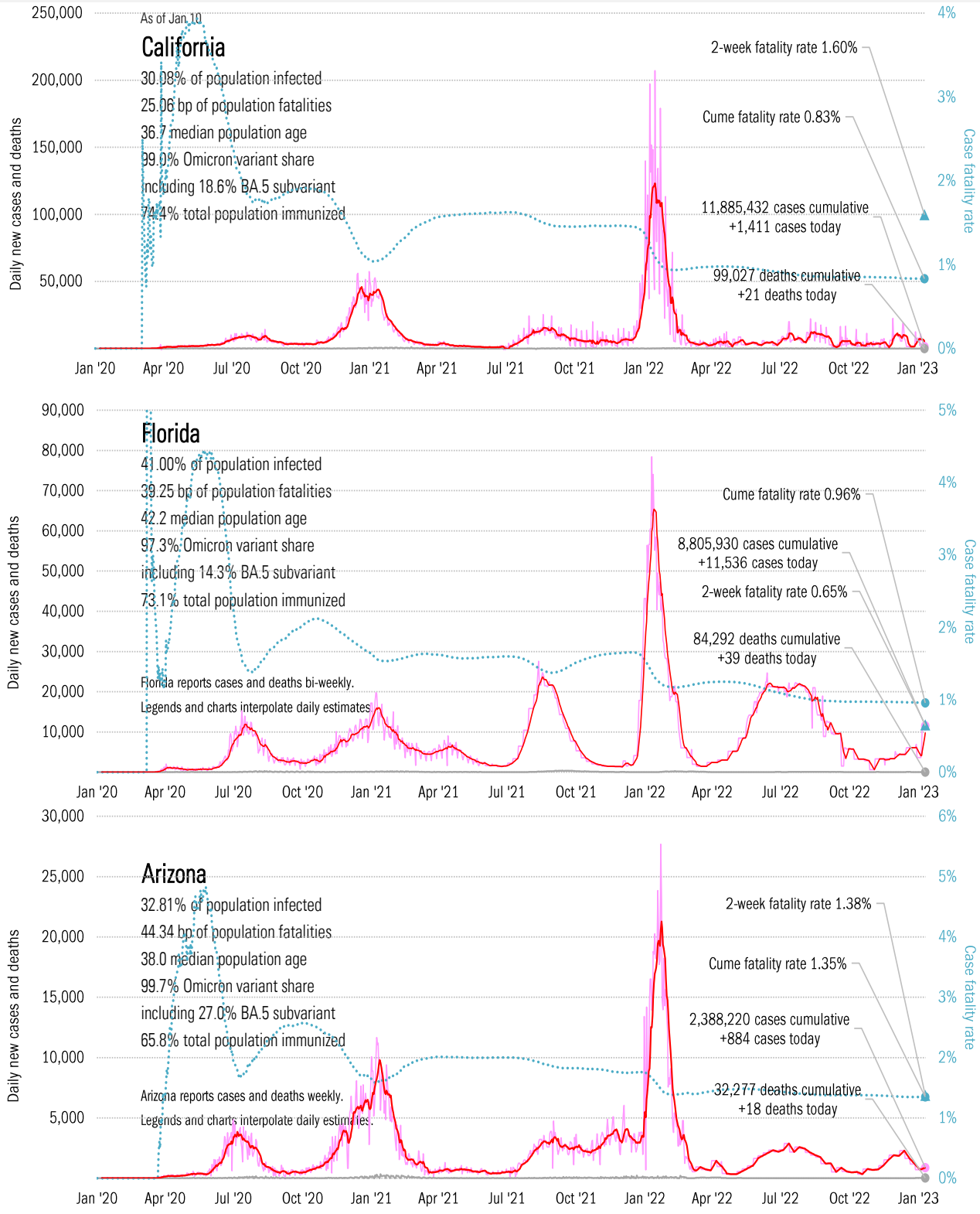
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

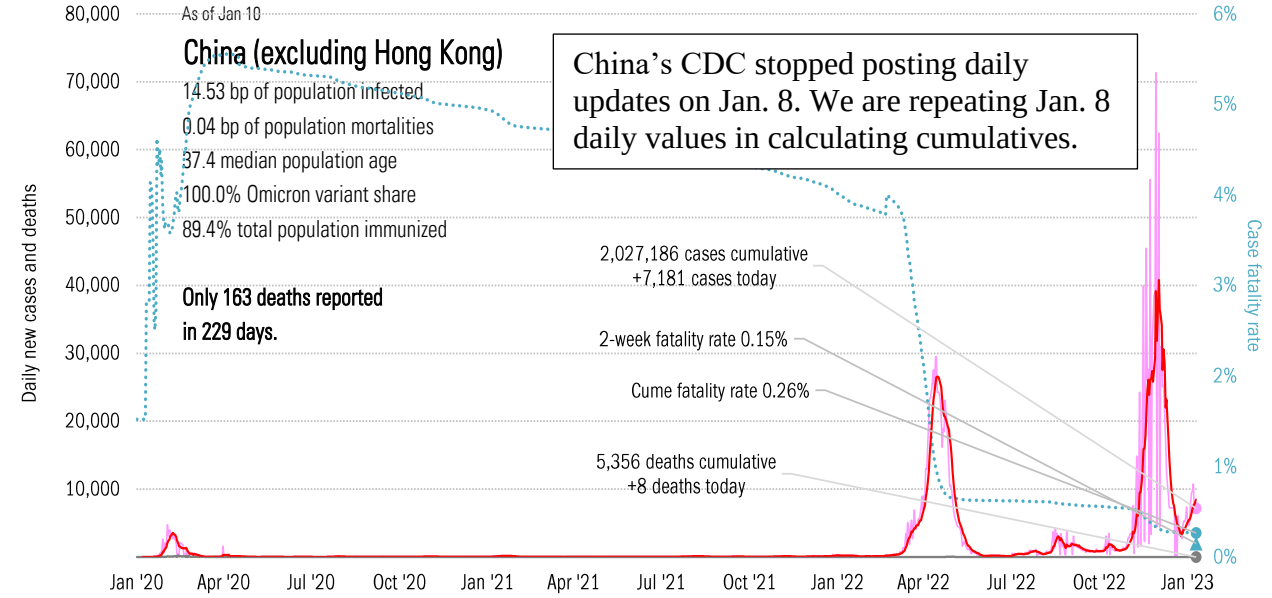
Cases: 7-day average and daily Deaths: Daily

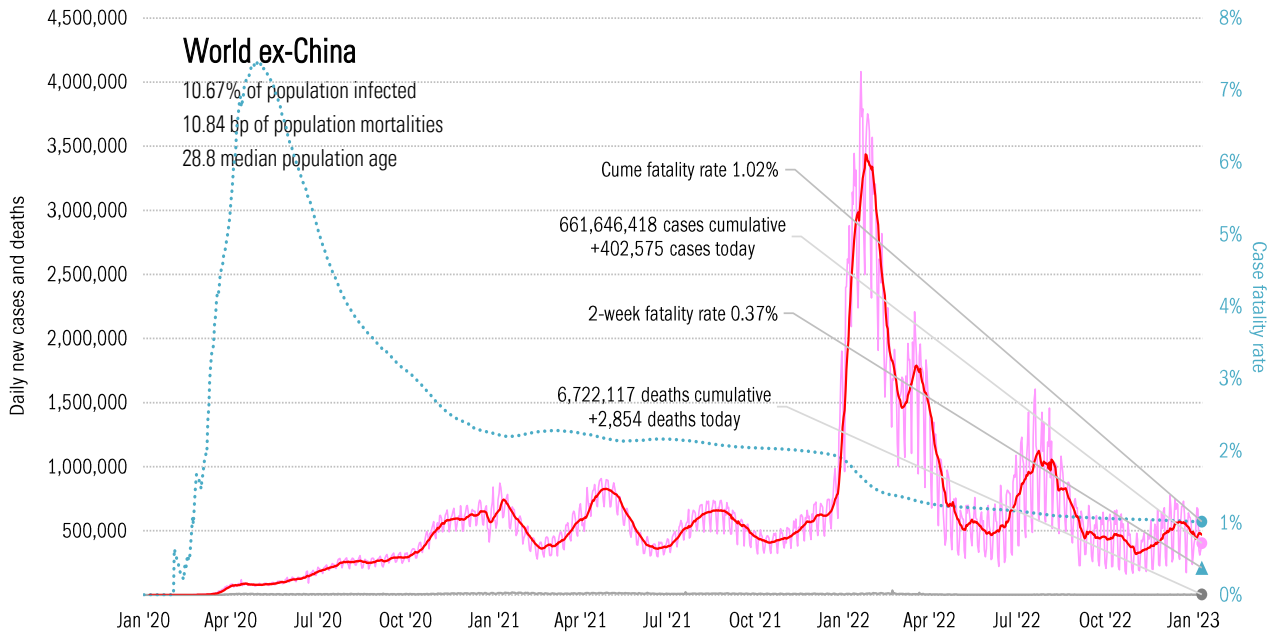


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

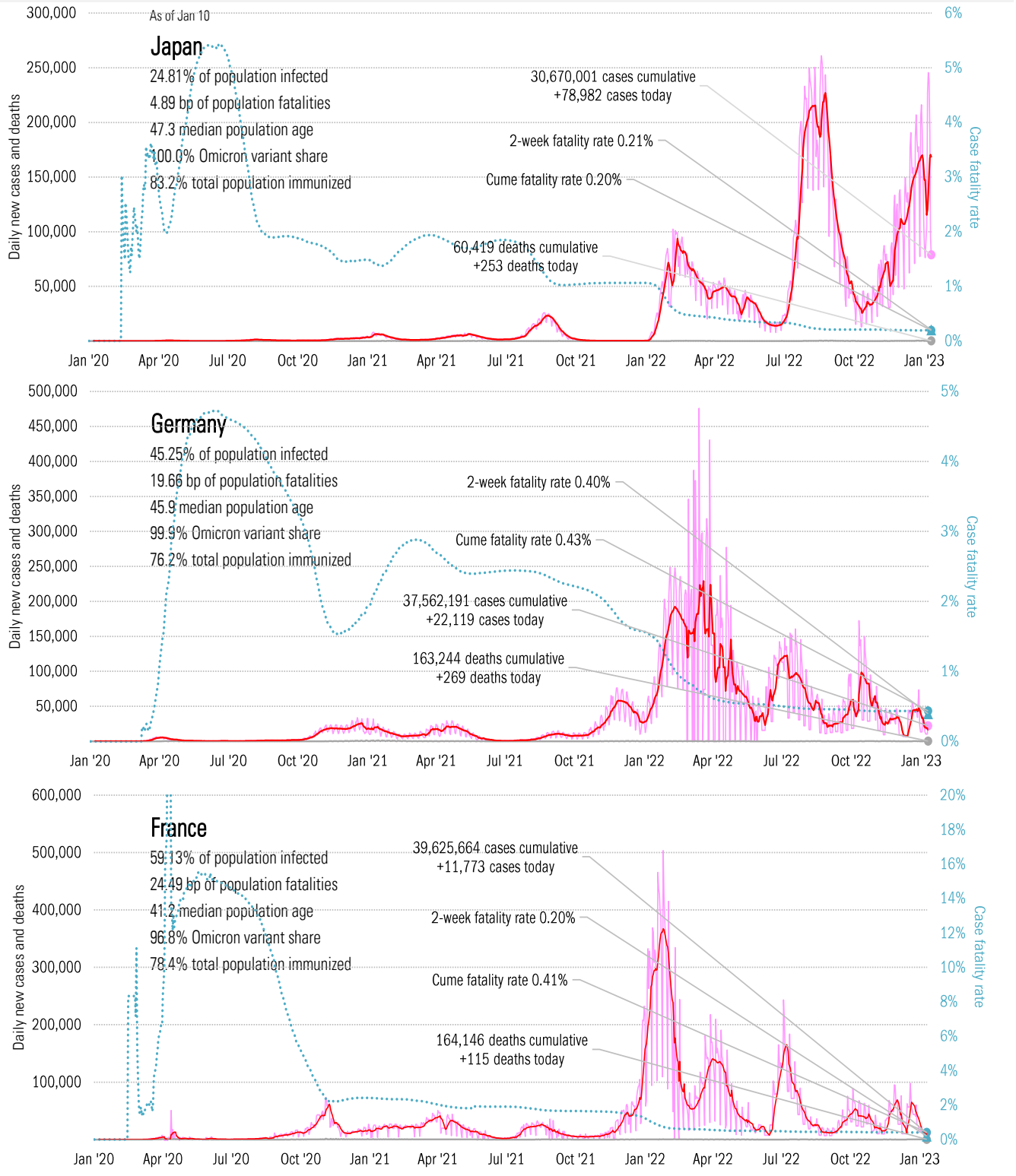




Source: Johns Hopkins, China CDC, TrendMacro calculations

Impact in the largest economies

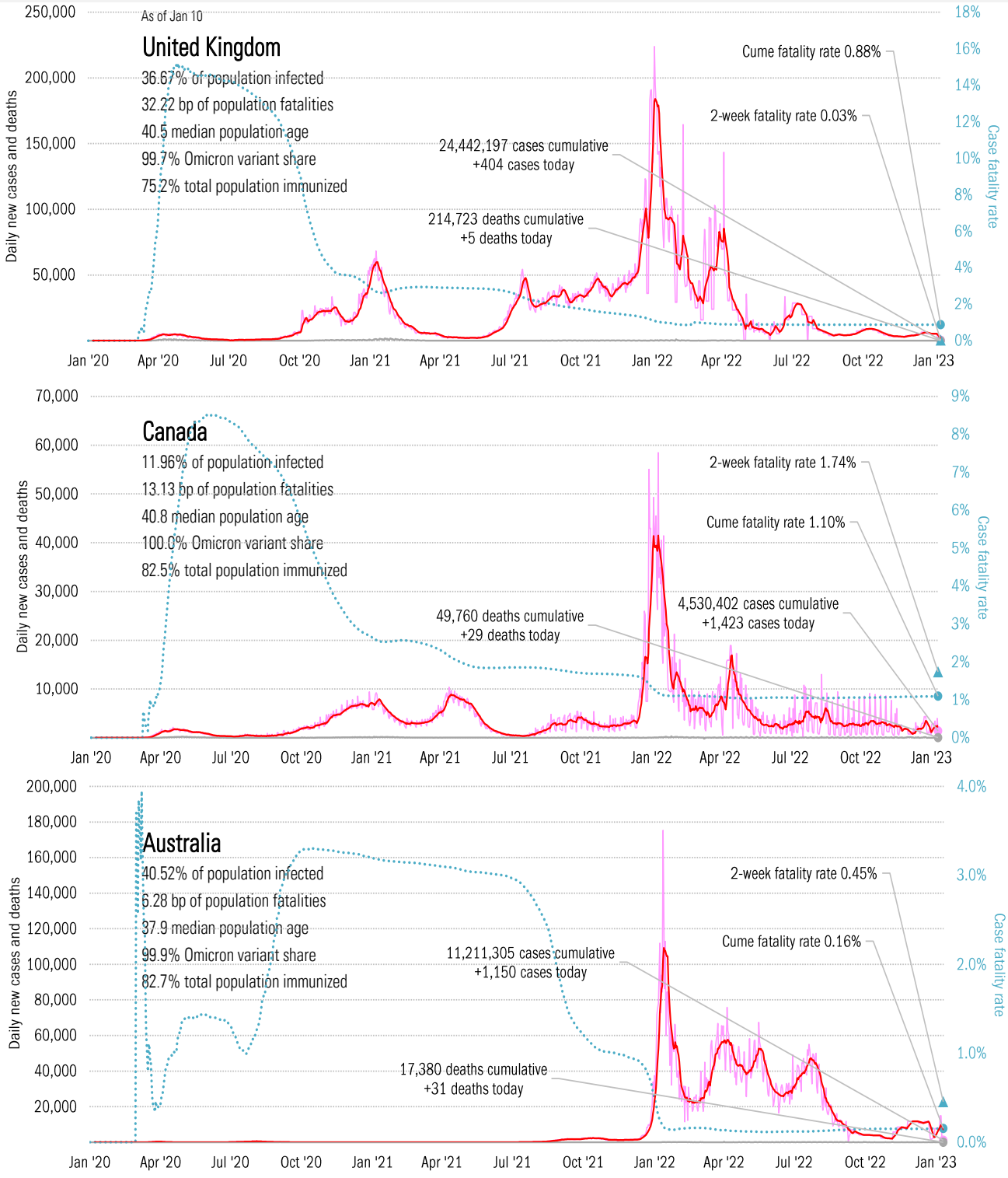
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

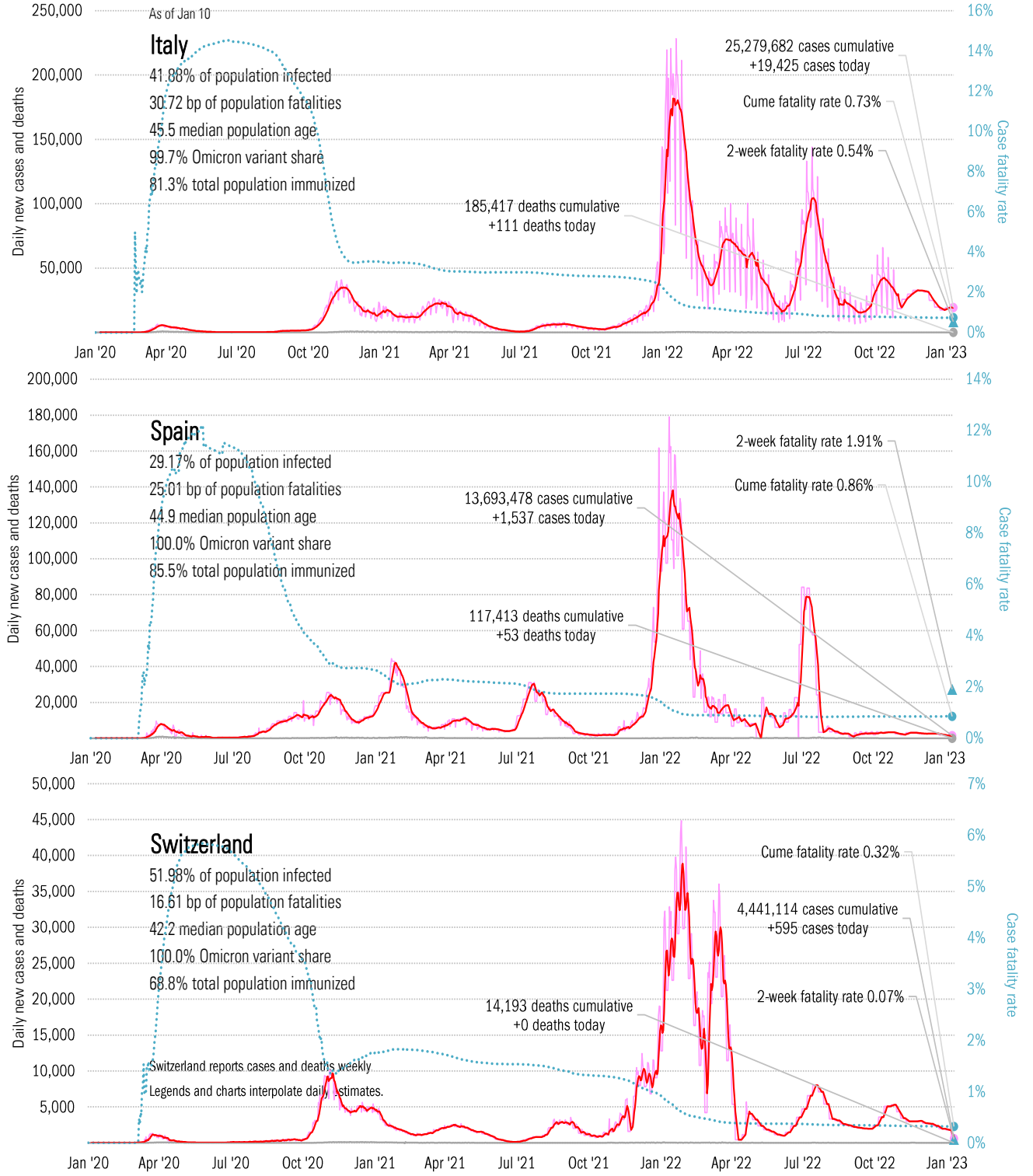
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

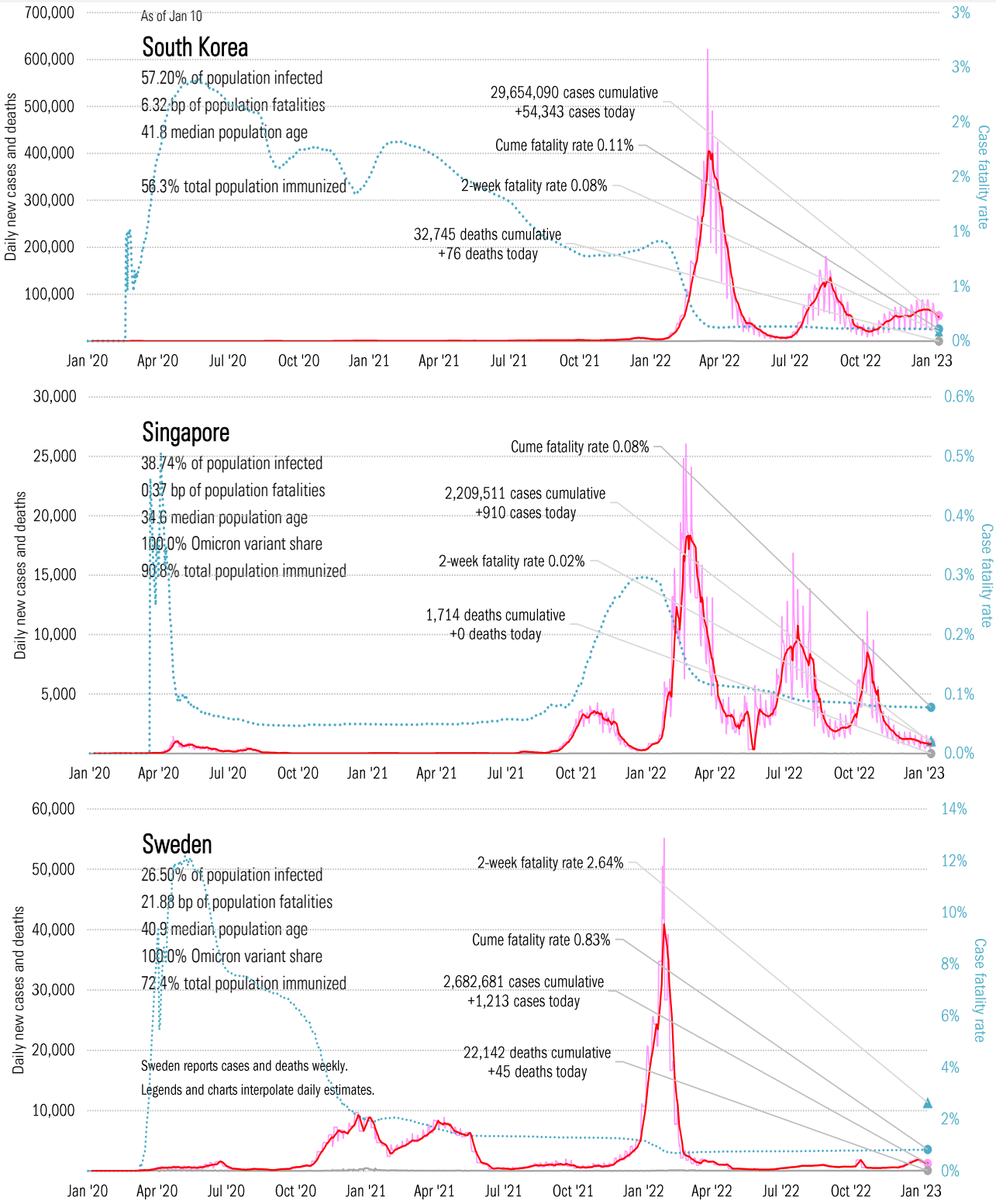
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

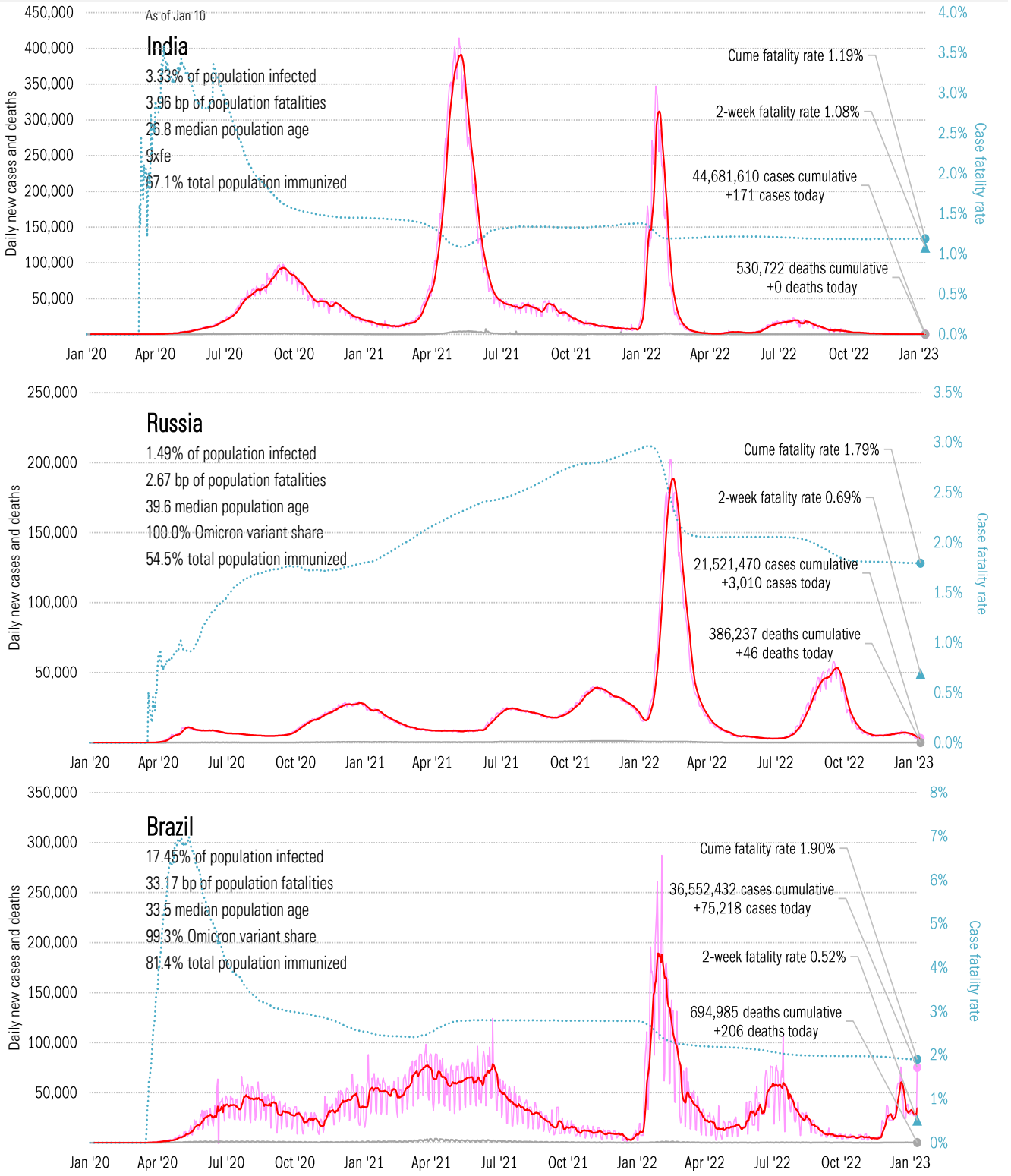
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

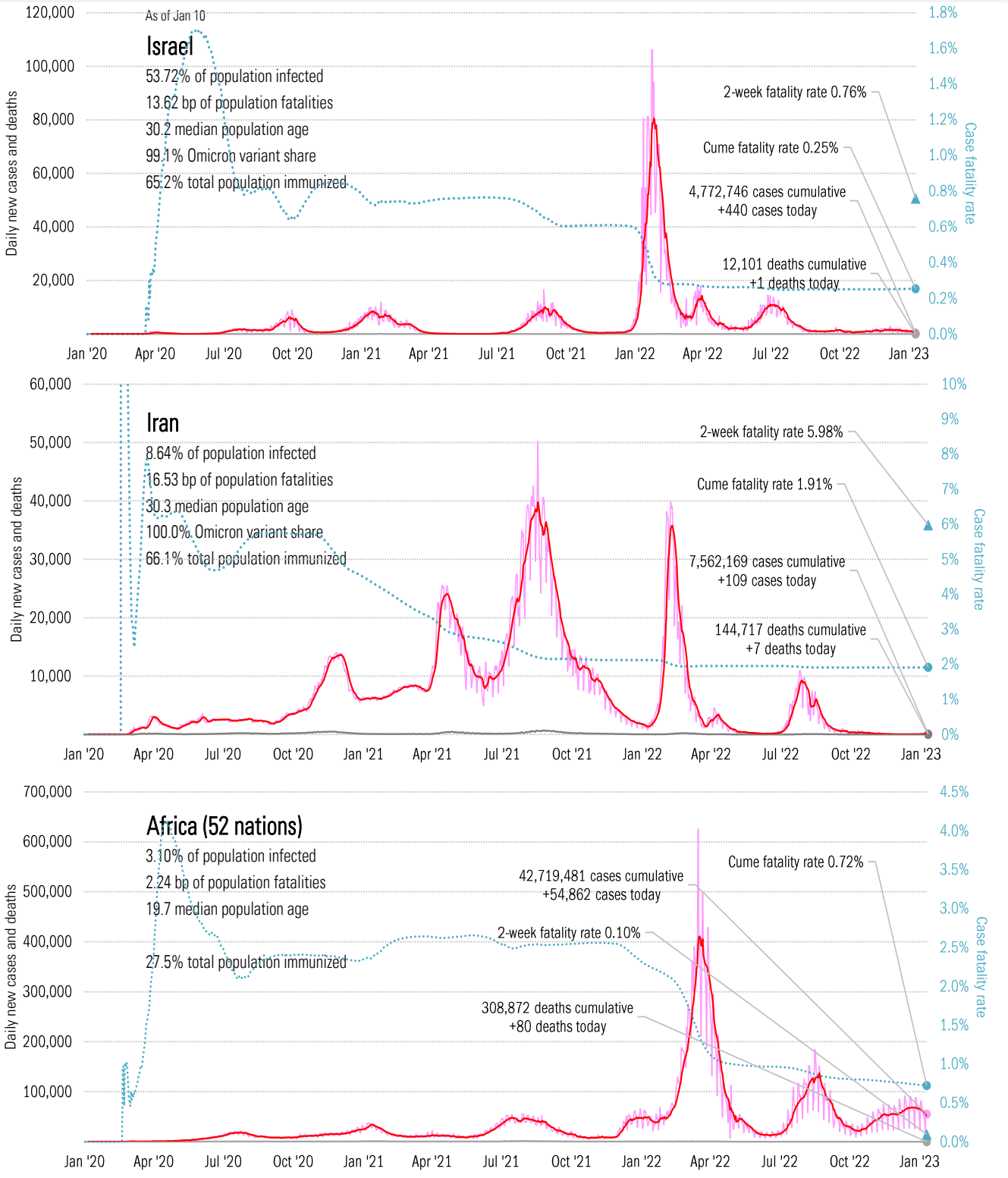
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

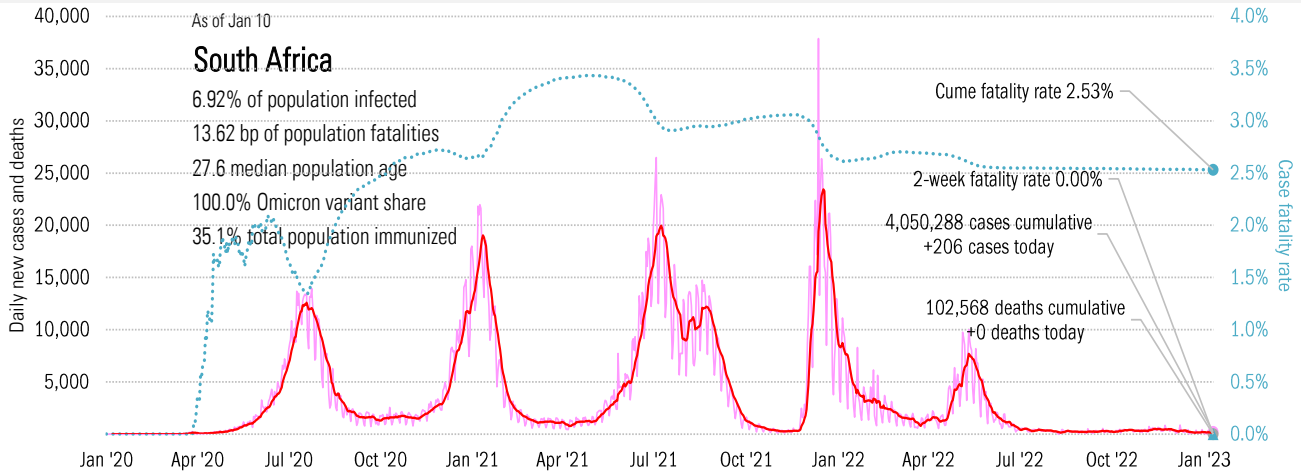
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations