Trend Macrolytics, LLC
Donald Luskin, Chief Investment Officer
Thomas Demas, Managing Director
Michael Warren, Energy Strategist

Data Insights: Covid-2019 Monitor

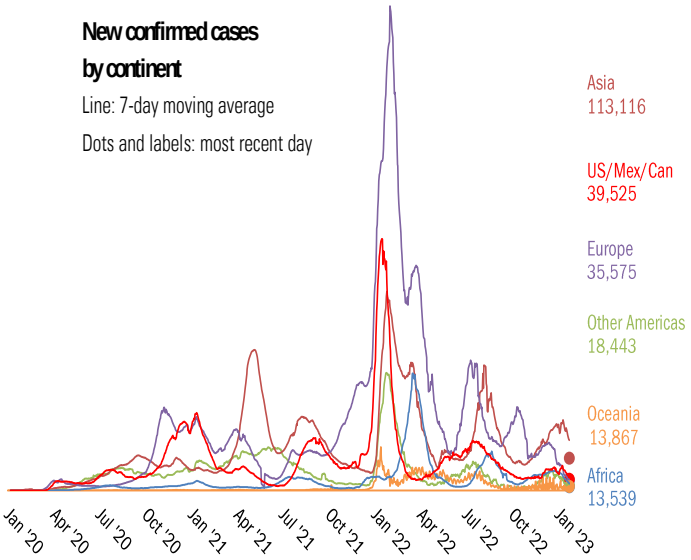
Tuesday, January 24, 2023

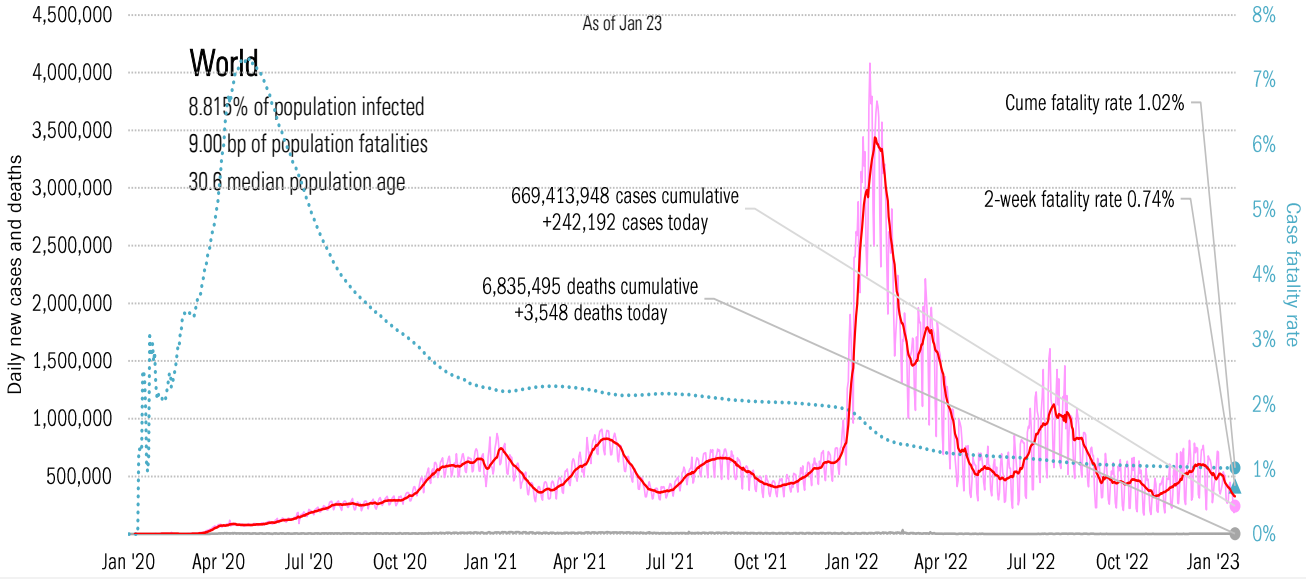
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries (see China note page 14)

New cases		New Deaths	
China	67,391	China	1,808
United States	54,367	United States	618
Japan	32,571	Japan	253
New Zealand	13,867	Germany	141
Korea, South	12,262	Italy	71
Taiwan*	10,667	Australia	69
Argentina	8,614	Brazil	67
Italy	7,413	France	66
Brazil	6,430	Spain	61
Germany	5,357	Argentina	56
	218,939		3,209





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
Donald Luskin: 214 550 2121 don@trendmacro.com
Thomas Demas: 704 552 3625 tdemas@trendmacro.com

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

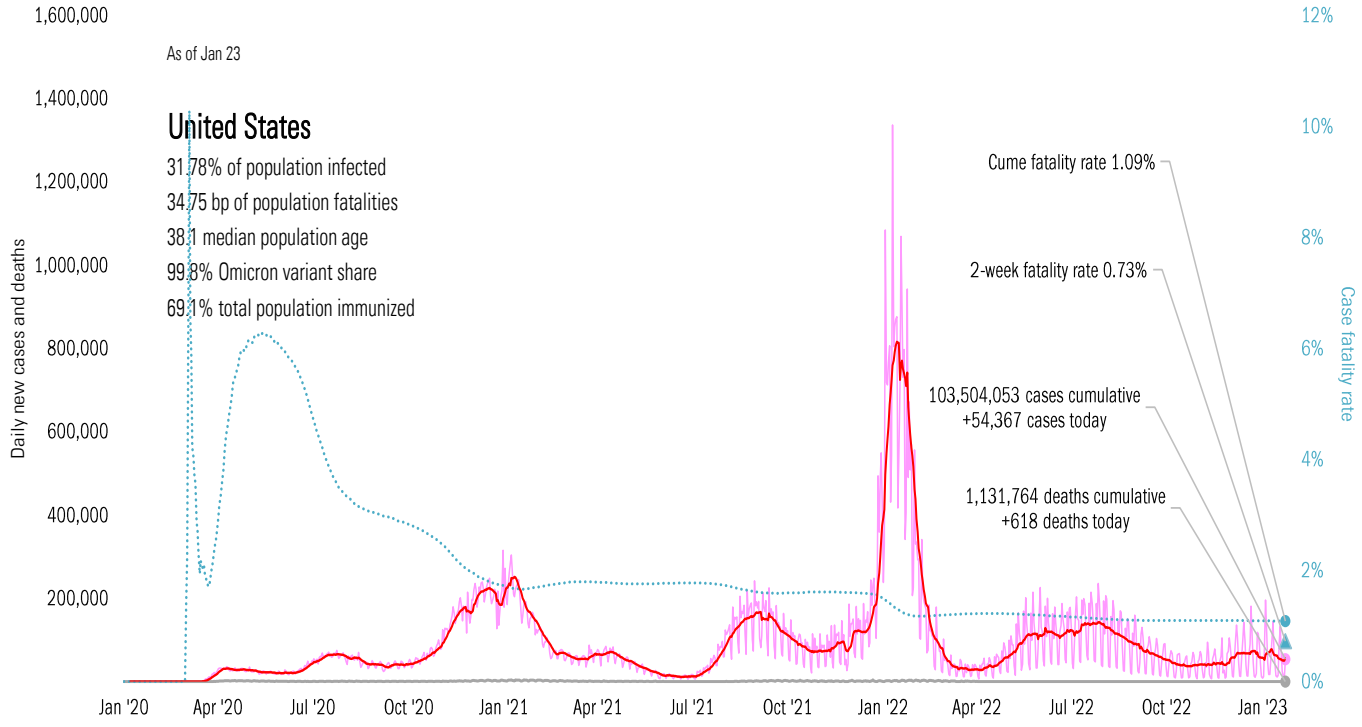
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
NY	11,227	FL	107	NJ	212	CA	11,957,408	CA	99,685	TX	579,246	RI	89%	TX	87%
FL	7,177	NY	48	PA	186	TX	8,330,257	TX	92,369	CA	554,782	DE	87%	AL	87%
NJ	5,067	MI	26	CT	102	FL	7,443,954	FL	84,927	FL	523,569	MA	86%	OK	86%
CA	4,725	WI	26	CO	50	NY	6,686,707	NY	76,088	NY	345,466	MN	85%	NC	85%
NC	2,249	MA	21	IN	84	IL	4,008,844	PA	49,397	OH	240,104	MD	84%	NM	84%
VA	1,508	VA	20	OK	53	PA	3,459,061	GA	41,772	GA	238,383	MO	83%	AK	84%
MI	1,376	IL	19	AL	73	NC	3,398,161	OH	41,249	PA	225,043	WV	83%	MO	83%
WI	1,345	PA	19	WI	69	OH	3,339,612	MI	41,185	IL	208,719	NC	83%	MA	83%
CO	1,295	AZ	18	MS	40	GA	3,020,166	IL	40,980	MI	177,961	DC	83%	AR	82%
MA	1,200	TX	18	WV	39	MI	3,017,948	NJ	35,738	NJ	158,446	HI	82%	DC	82%
	37,169		323		908		54,662,118		603,390		3,251,719				
All states	54,367		618		3,937	All states	103,504,053		1,131,764		5,897,016	All states	70%		67%
Top ten	68%		52%		23%	Top ten	54%		55%		55%	Median	78%		77%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
TX	-1,226	CO	-41	MD	-29
PA	-545	TN	-29	VA	-19
KS	-263	NM	-7	WA	-15
CT	-64	AK	0	NH	-14
MO	-35	AL	0	DC	-12



Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

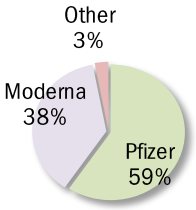
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	684,488,377				+0.192 million
				Of which boosters:	+0.157 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	277,177,672	83%	236,331,846	71%	+0.022 million
Age 12 to 17	18,436,781	73%	15,783,816	62%	+0.001 million
Age 18 to 64	184,313,168	91%	156,693,936	77%	+0.012 million
Age 65 and over	60,998,716	100%	53,444,575	98%	+0.004 million

Immunity	Full	Partial
US	69.1%	80.9%
UK	75.2%	79.7%
France	78.4%	80.6%
Spain	85.6%	86.9%
Germany	76.2%	77.8%
Italy	81.3%	86.2%
Australia	82.7%	84.9%
Israel	65.2%	71.1%
Canada	82.6%	90.3%
Japan	83.3%	84.4%
Africa	28.0%	33.9%
India	67.1%	72.5%
Brazil	81.4%	87.8%
China	89.5%	91.9%

Global data differs due to sources, timing



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

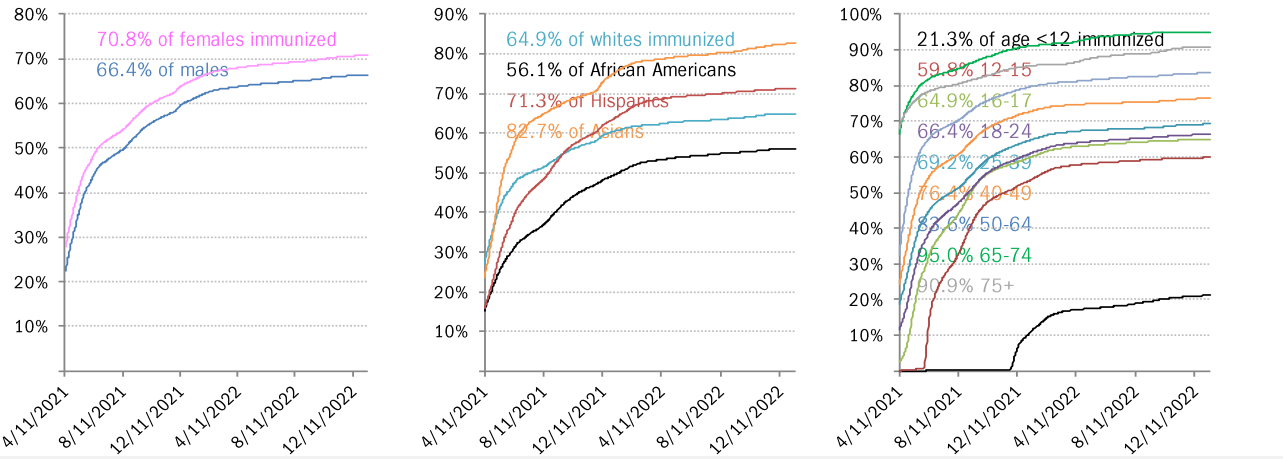
"Immunity" = two doses

Best
Middle
Worst

As of Jan 20

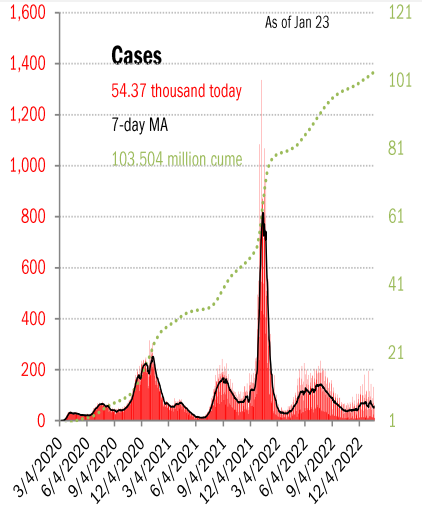
					WI					ME
					75.0%					95.0%
					68.1%					83.2%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
85.1%	63.8%	68.2%	69.2%	78.6%	79.0%	69.3%		94.3%	95.0%	88.0%
75.9%	56.4%	59.1%	58.5%	72.0%	71.1%	62.2%		80.6%	85.5%	71.8%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.4%	77.5%	60.8%	83.6%	70.5%	64.3%	65.6%	90.4%	94.5%	95.0%	
72.2%	63.6%	53.0%	66.1%	64.3%	57.7%	60.4%	73.2%	79.0%	84.1%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
84.6%	75.1%	83.5%	73.3%	69.2%	68.7%	67.4%	90.8%	91.5%	95.0%	95.0%
74.5%	66.6%	73.3%	66.1%	58.9%	59.5%	59.6%	76.5%	79.6%	82.9%	87.5%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	77.3%	94.2%	76.0%	69.8%	64.3%	91.9%	70.9%	95.0%	88.0%	
	65.9%	75.0%	65.2%	56.8%	56.2%	67.0%	59.8%	90.1%	73.2%	
			OK	LA	MS	AL	GA			
			74.5%	62.7%	61.5%	64.9%	68.3%			
			60.4%	55.0%	53.6%	53.1%	57.2%			
HI			TX					FL		PR
91.3%			76.2%					82.3%		90.8%
81.4%			63.1%					69.3%		83.9%

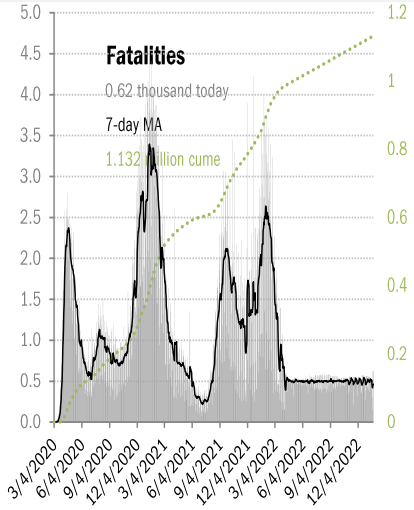
The demographics of US vaccination

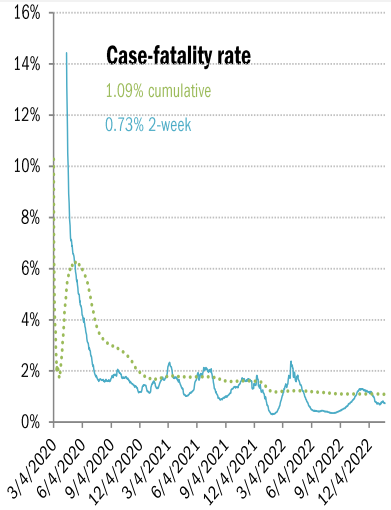


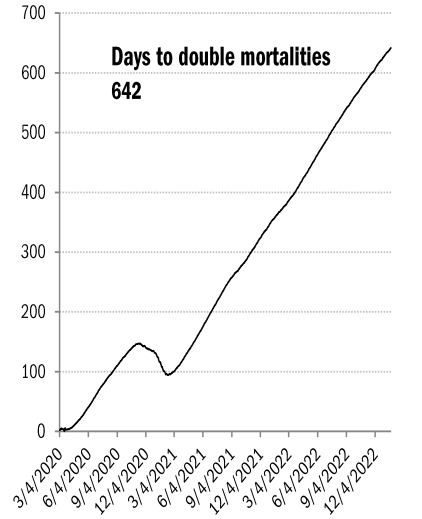
Source: CDC, CDC, Our World in Data, TrendMacro calculations

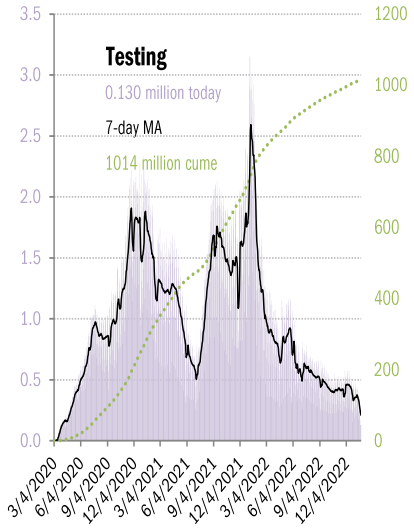
US deep-dive

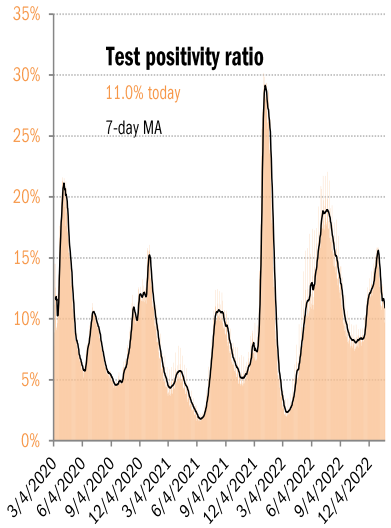


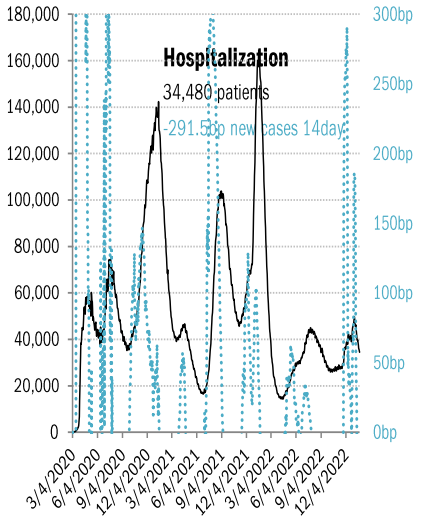


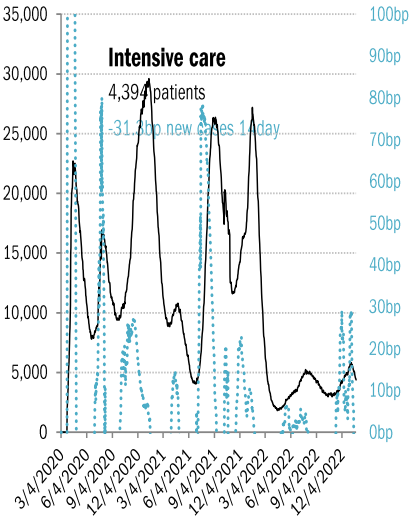


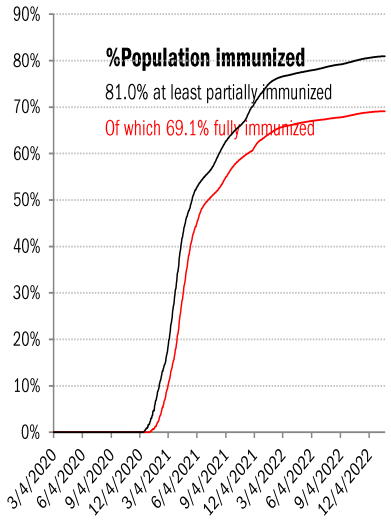












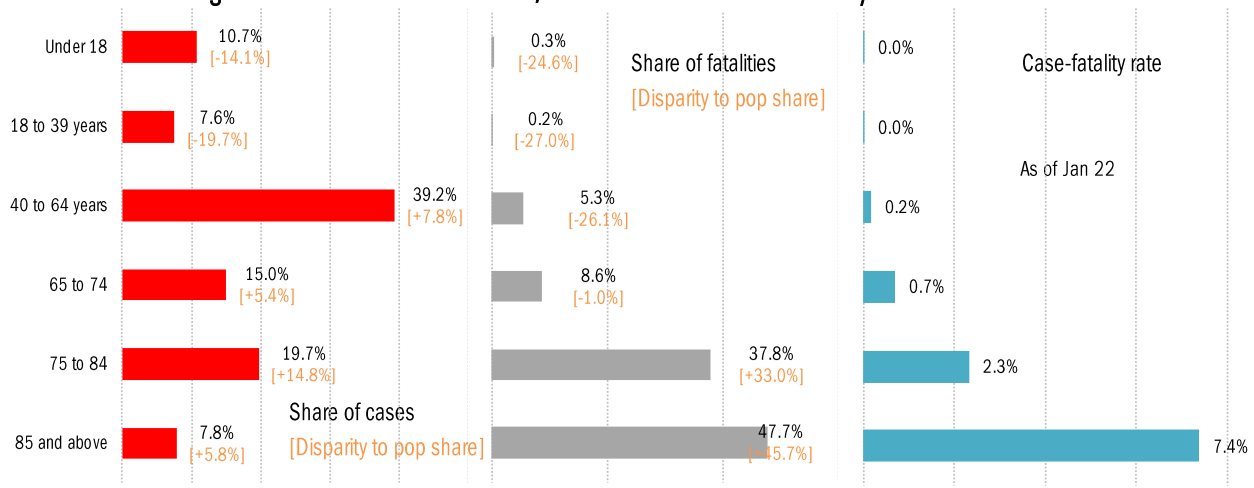
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

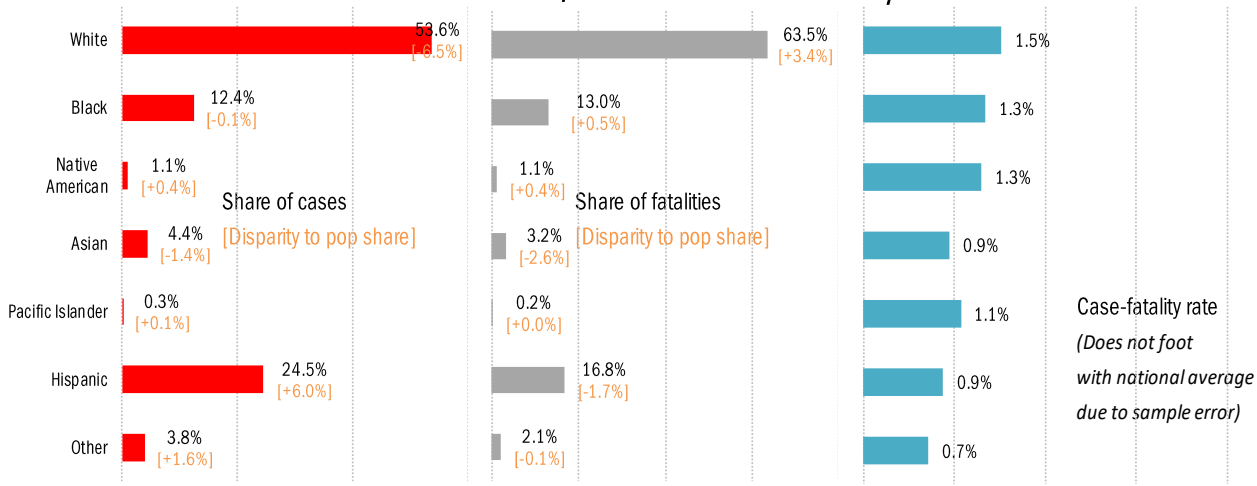
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



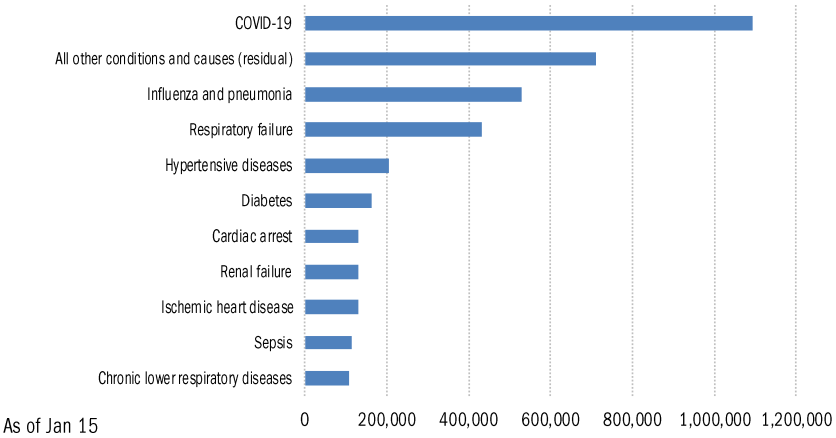
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jan 15

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.

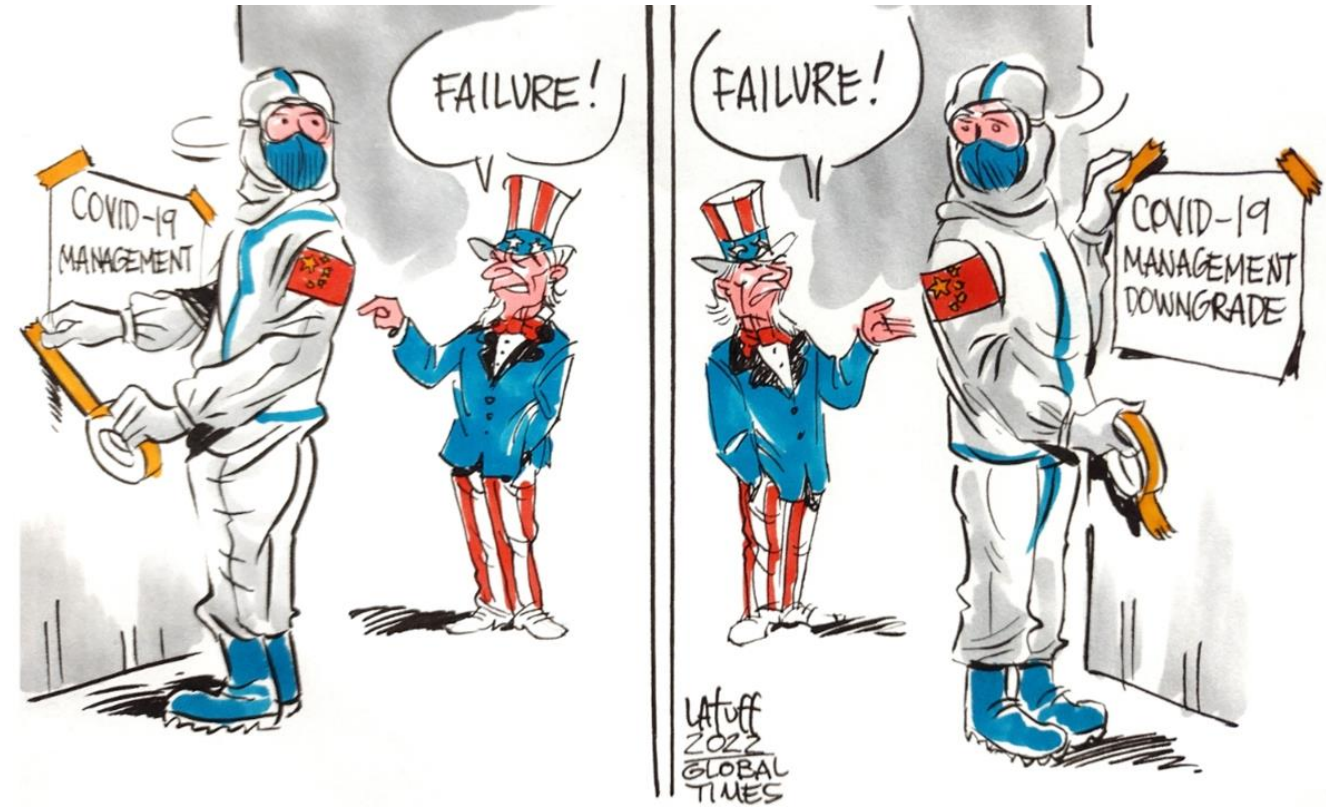
Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

[The Deceptive Campaign for Bivalent Covid Boosters](#)
Allysia Finley
Wall Street Journal
January 22, 2023

[FDA to propose yearly COVID vaccines like annual flu shots for Americans](#)
Bradford Betz
Fox News
January 23, 2023

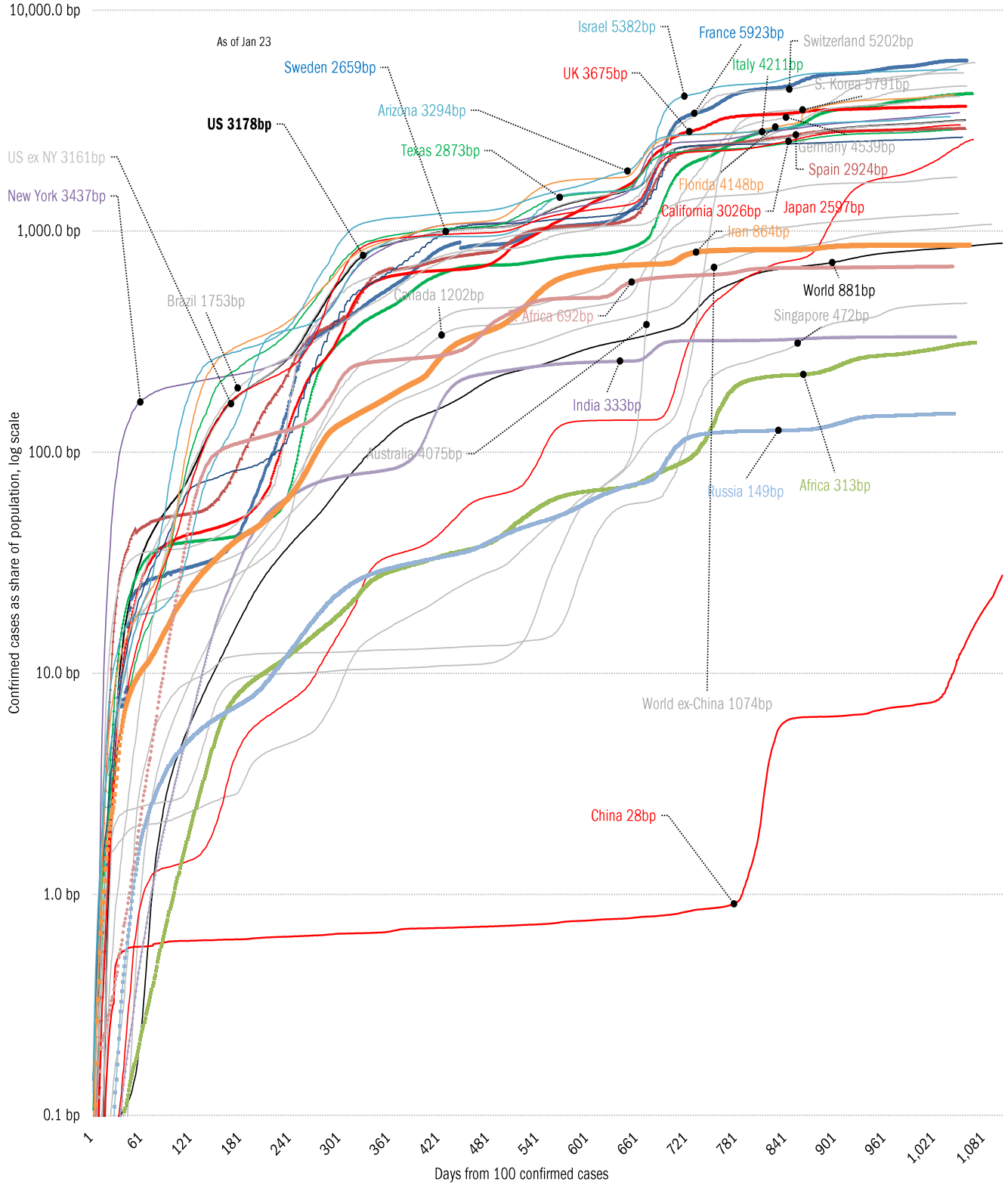
Meme of the Day



Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

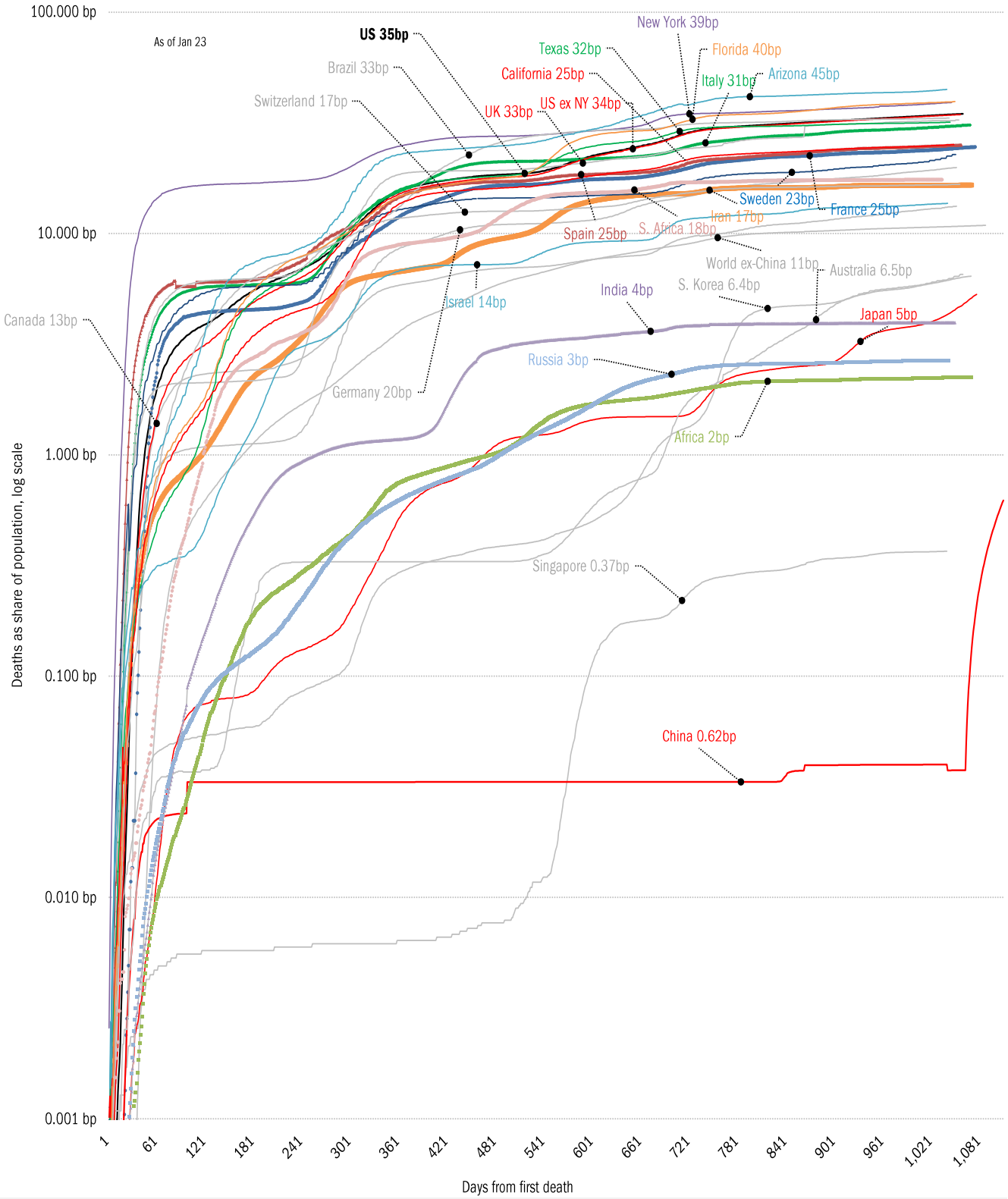
Share of infected population from first day with 100 confirmed cases, log scale



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

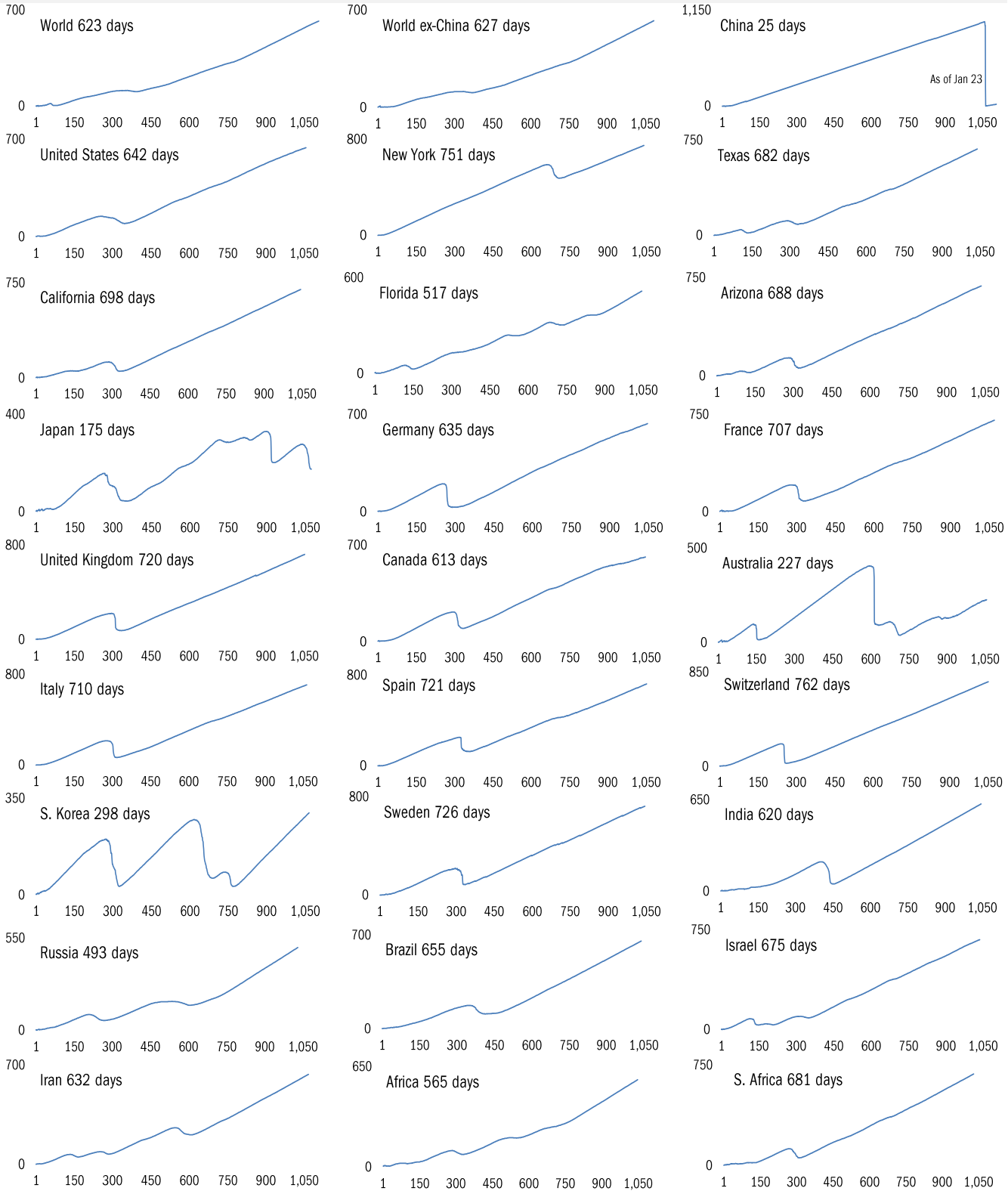


Source: Johns Hopkins, TrendMacro calculations

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

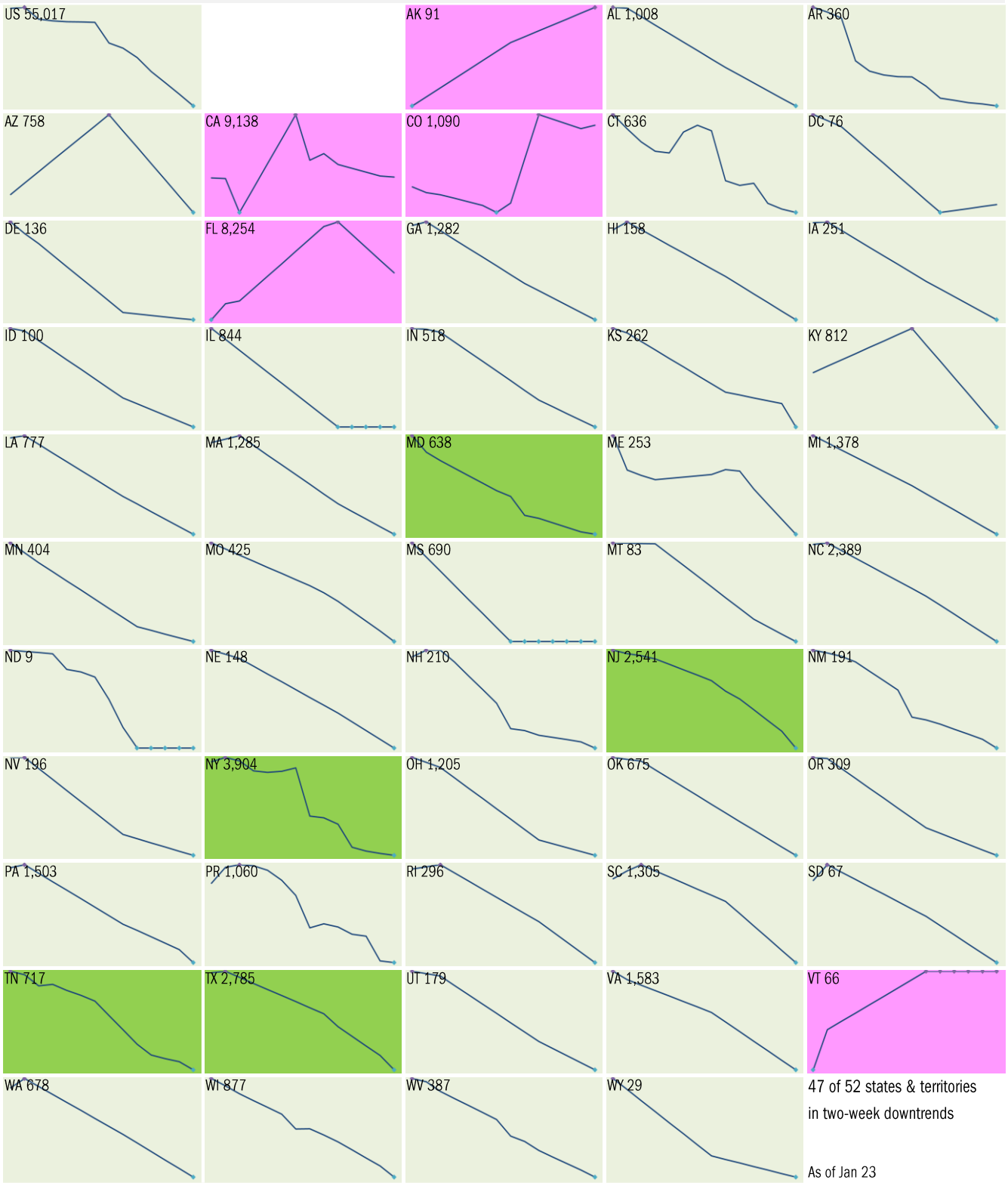


Source: Johns Hopkins, TrendMacro calculations

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

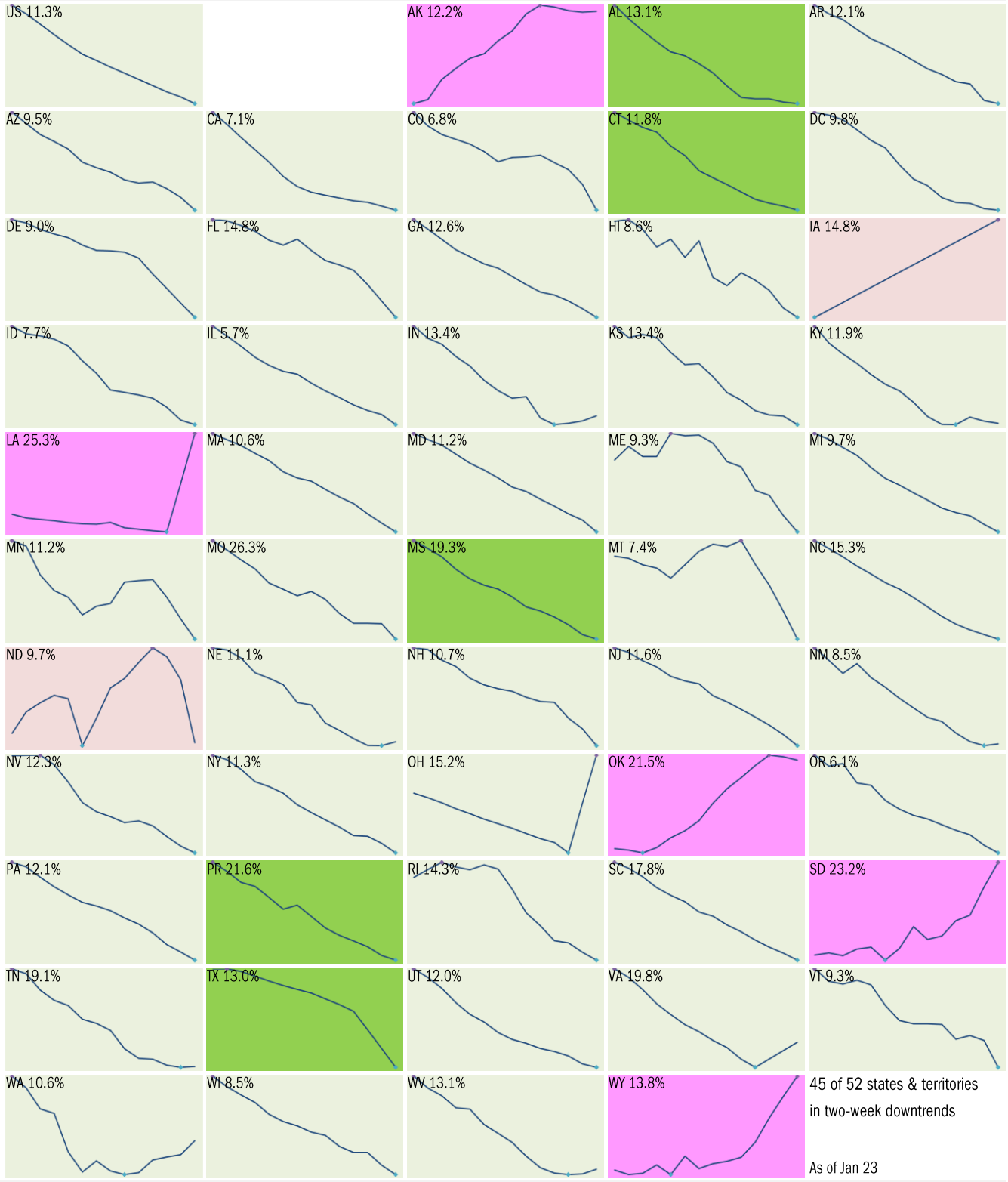


Source: Johns Hopkins, TrendMacro calculations

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

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

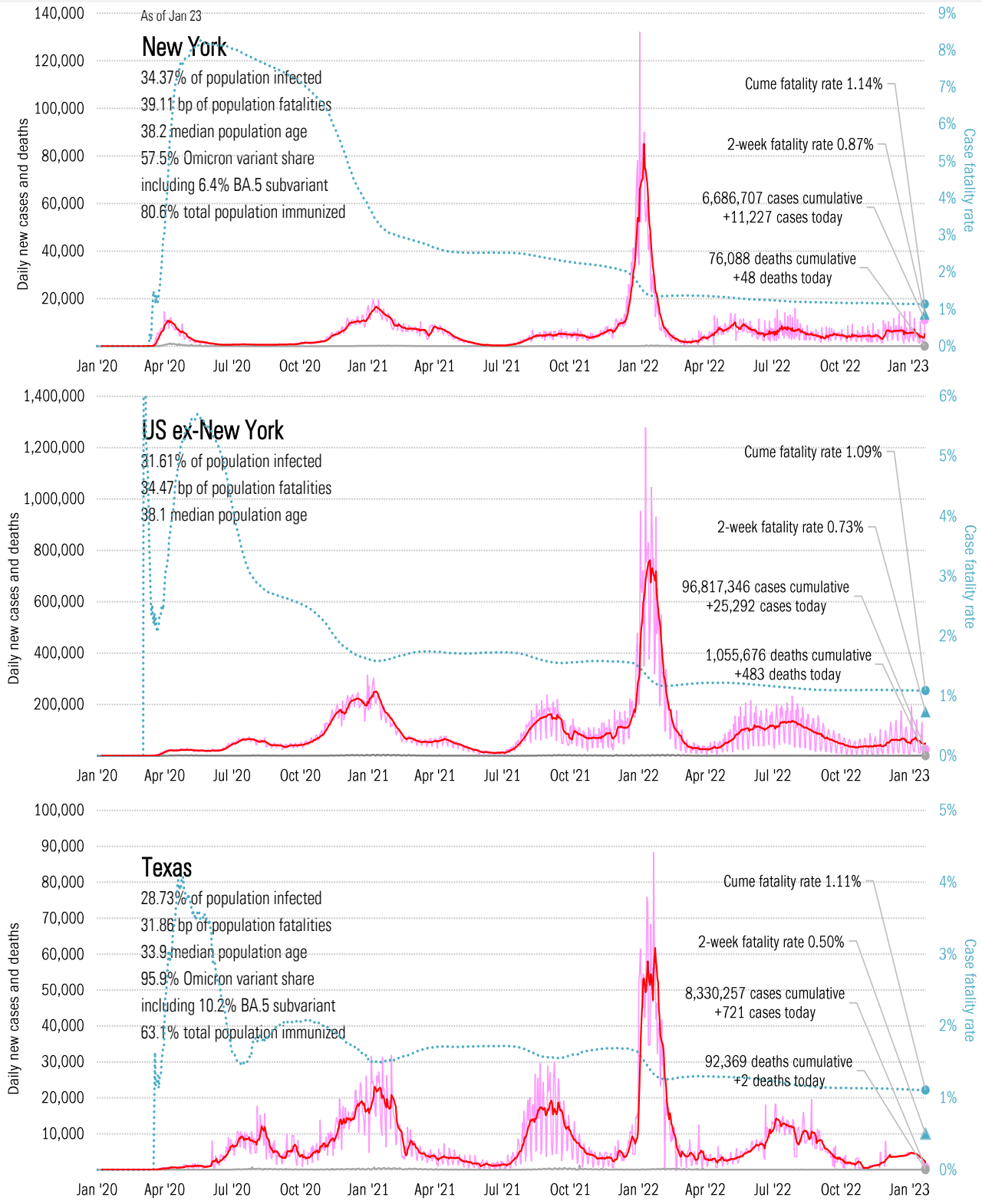
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

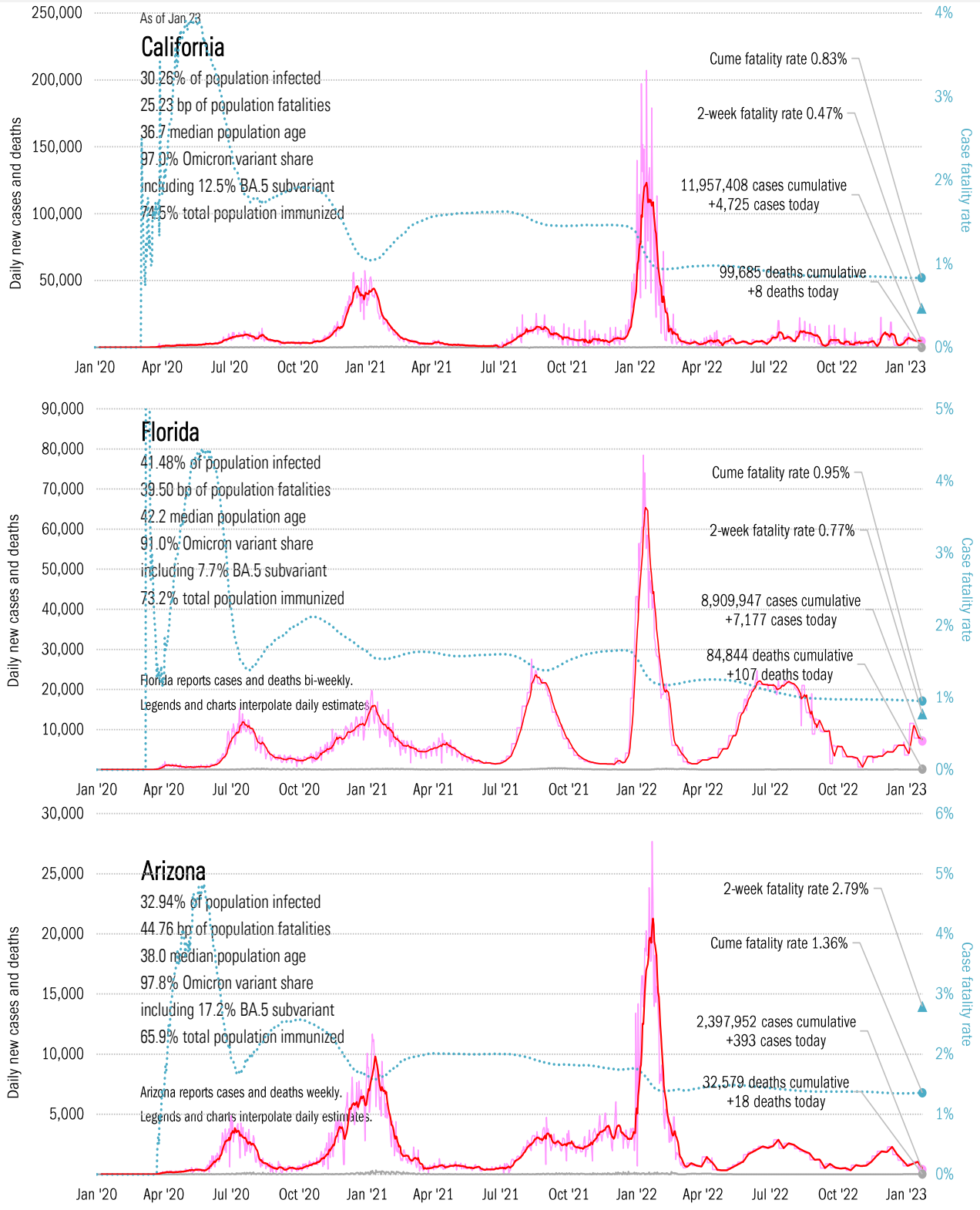
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

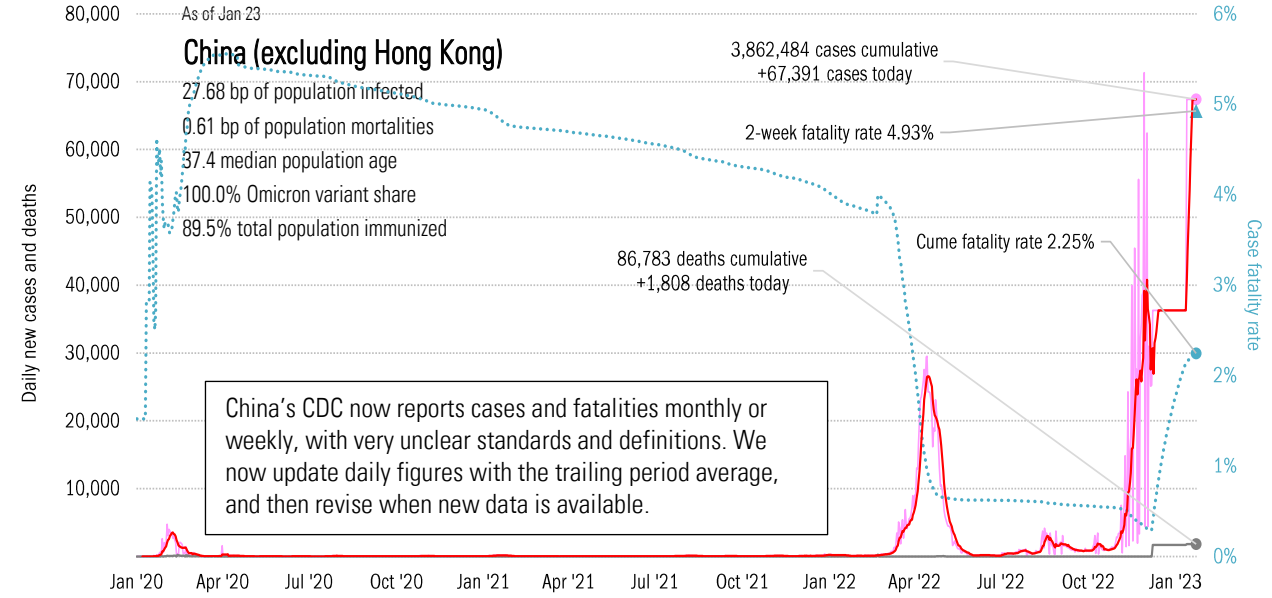
Cases: 7-day average and daily Deaths: Daily

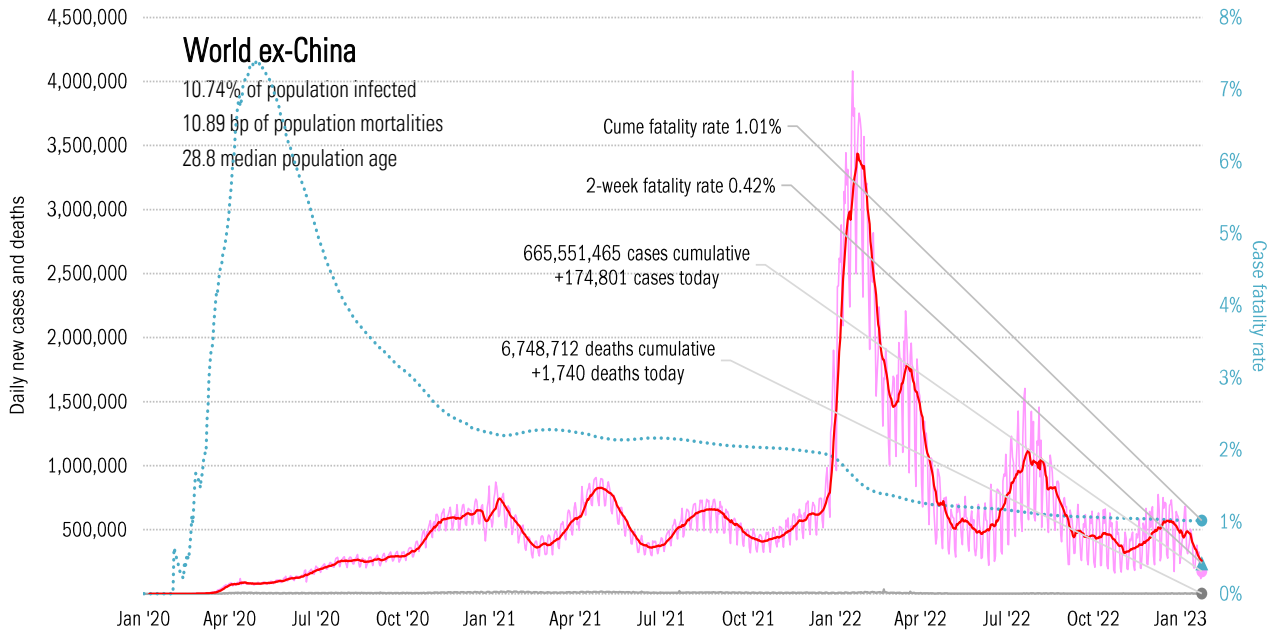


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

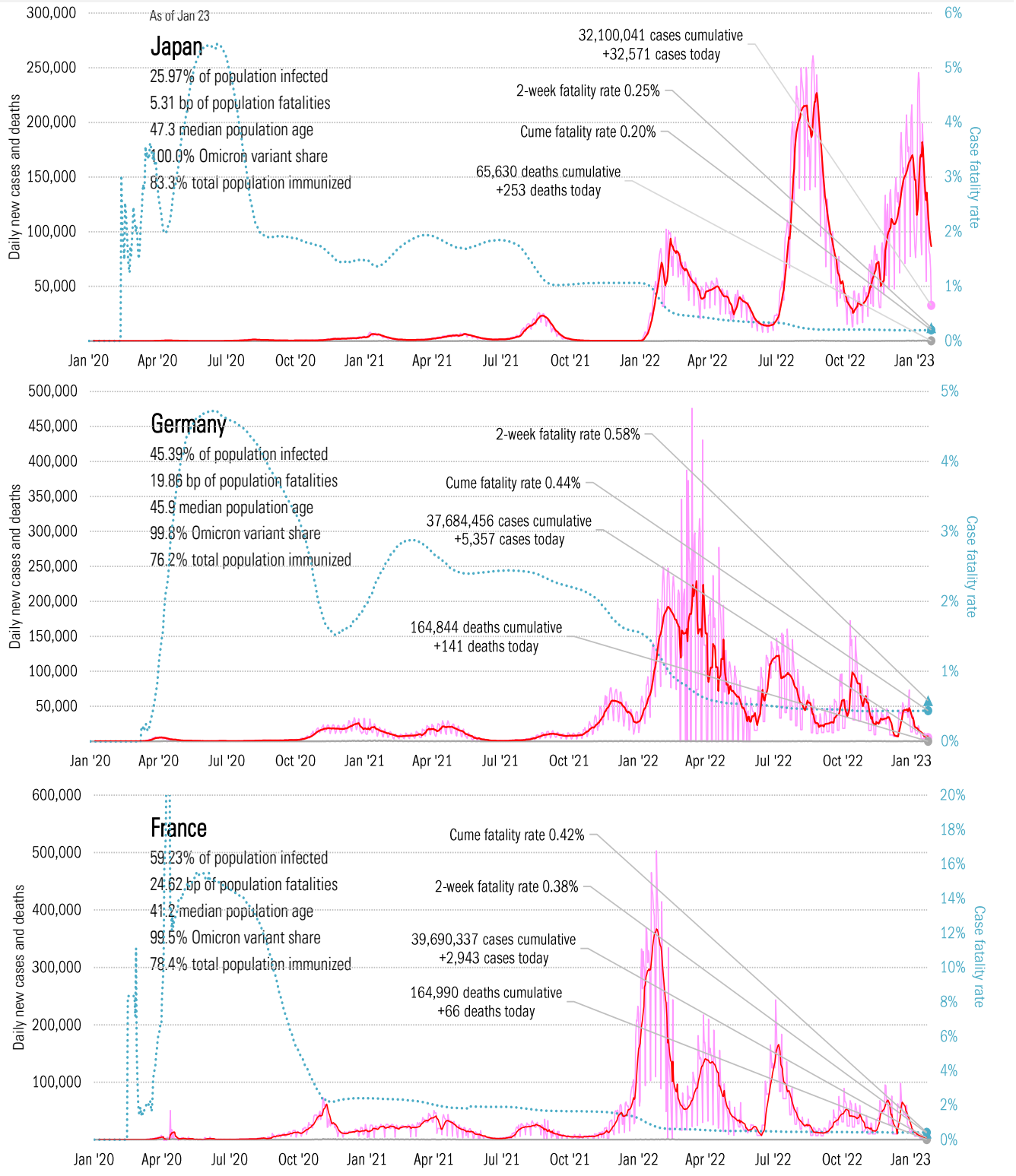




Source: Johns Hopkins, China CDC, TrendMacro calculations

Impact in the largest economies

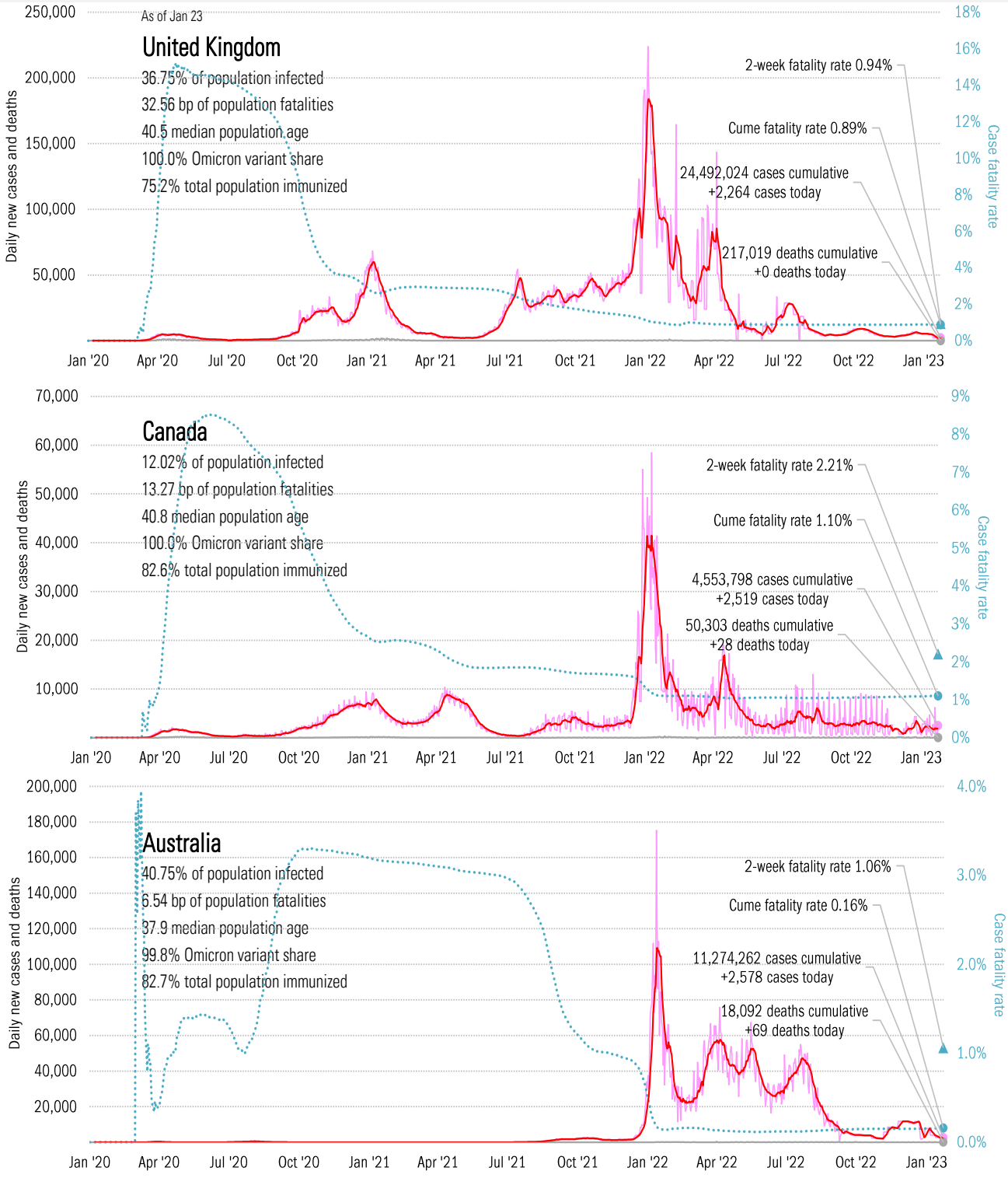
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

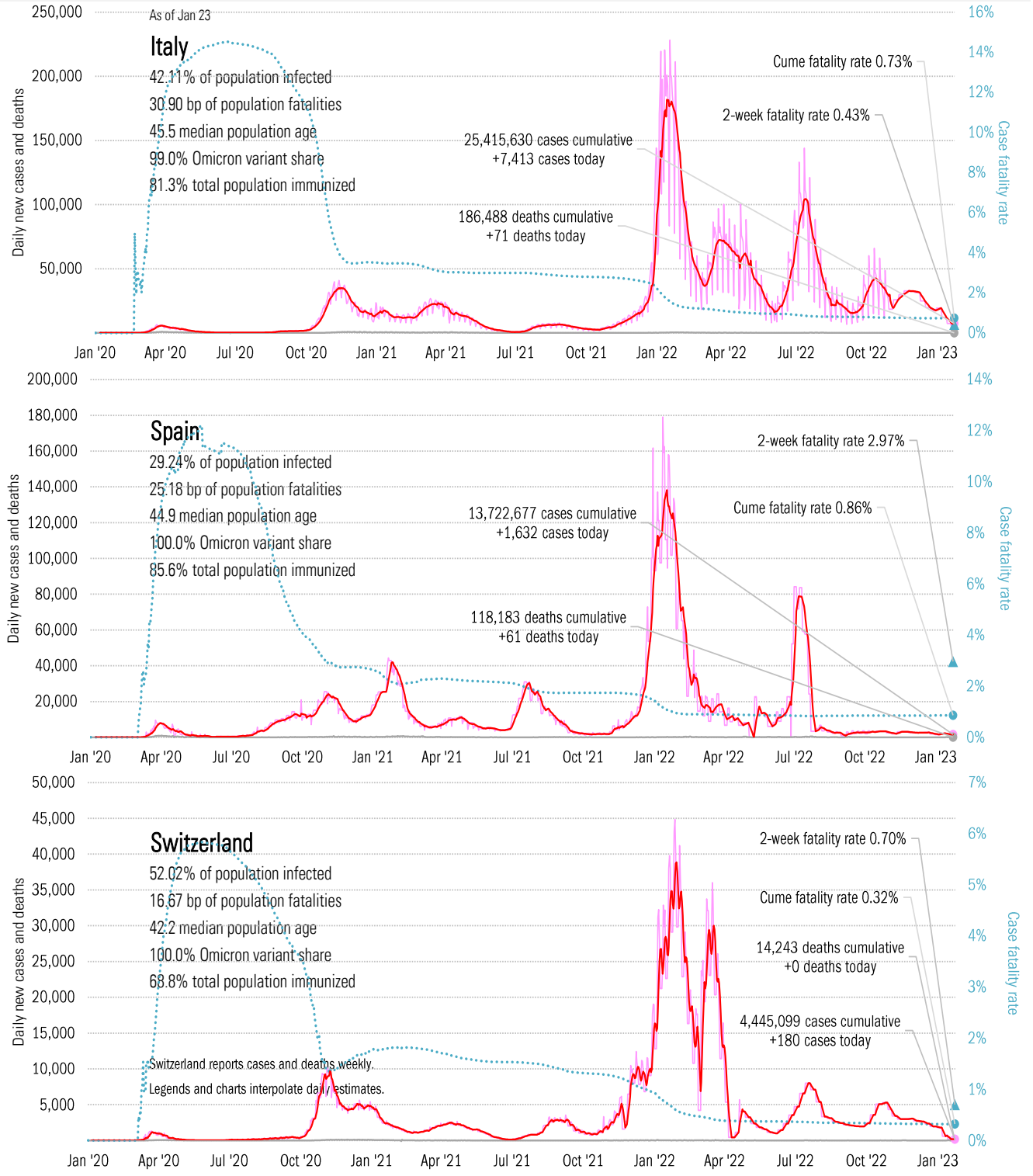
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

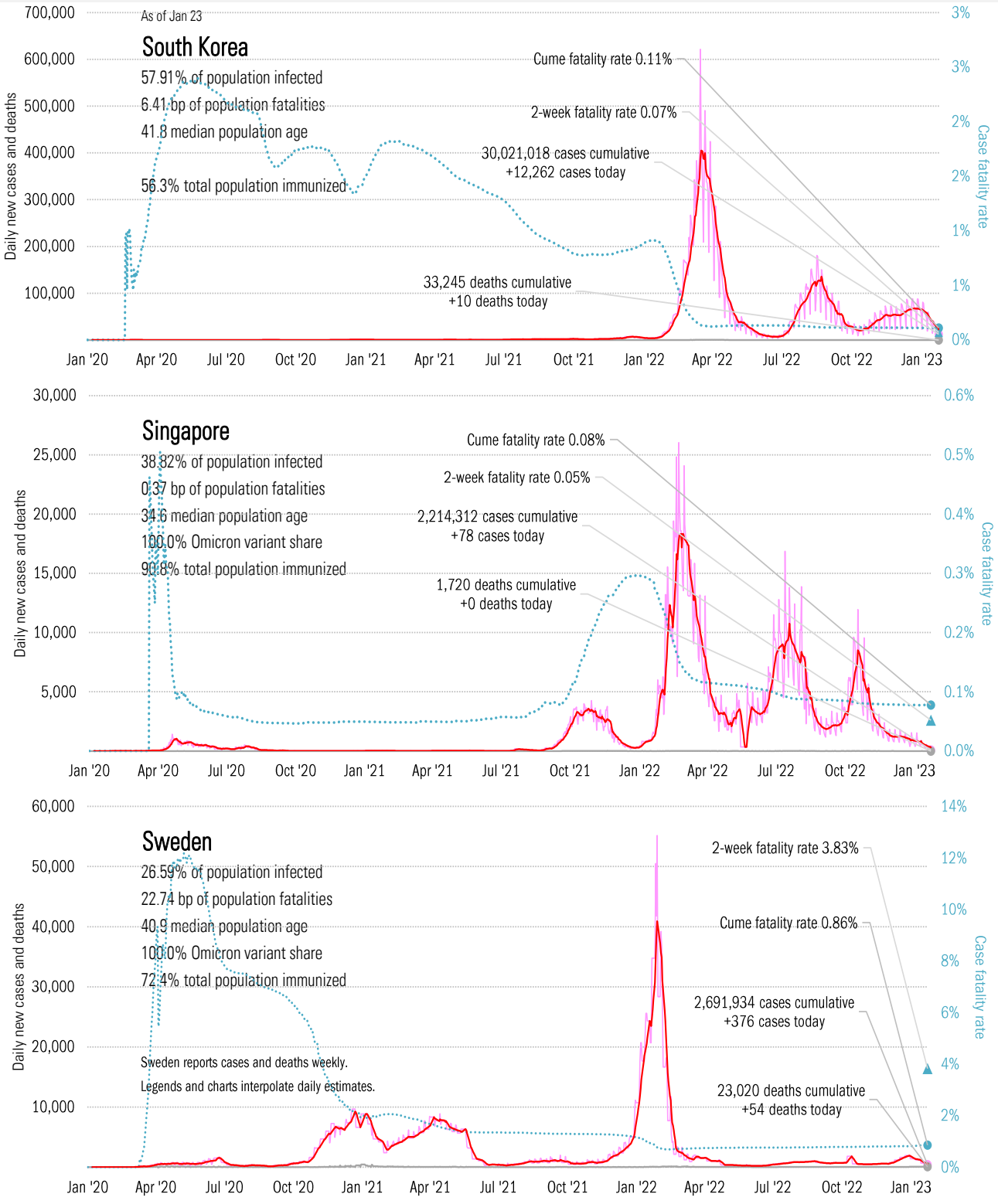
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

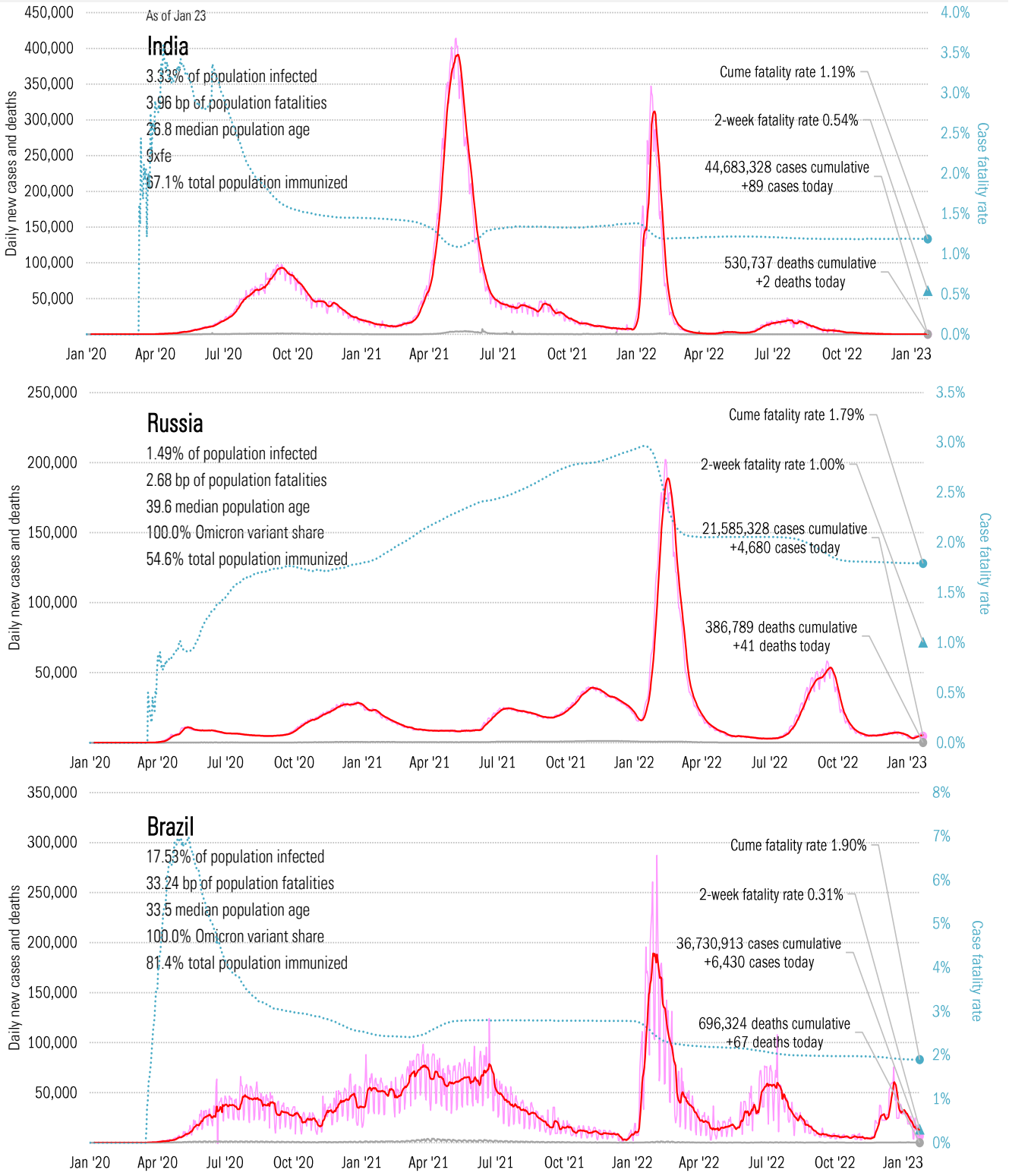
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

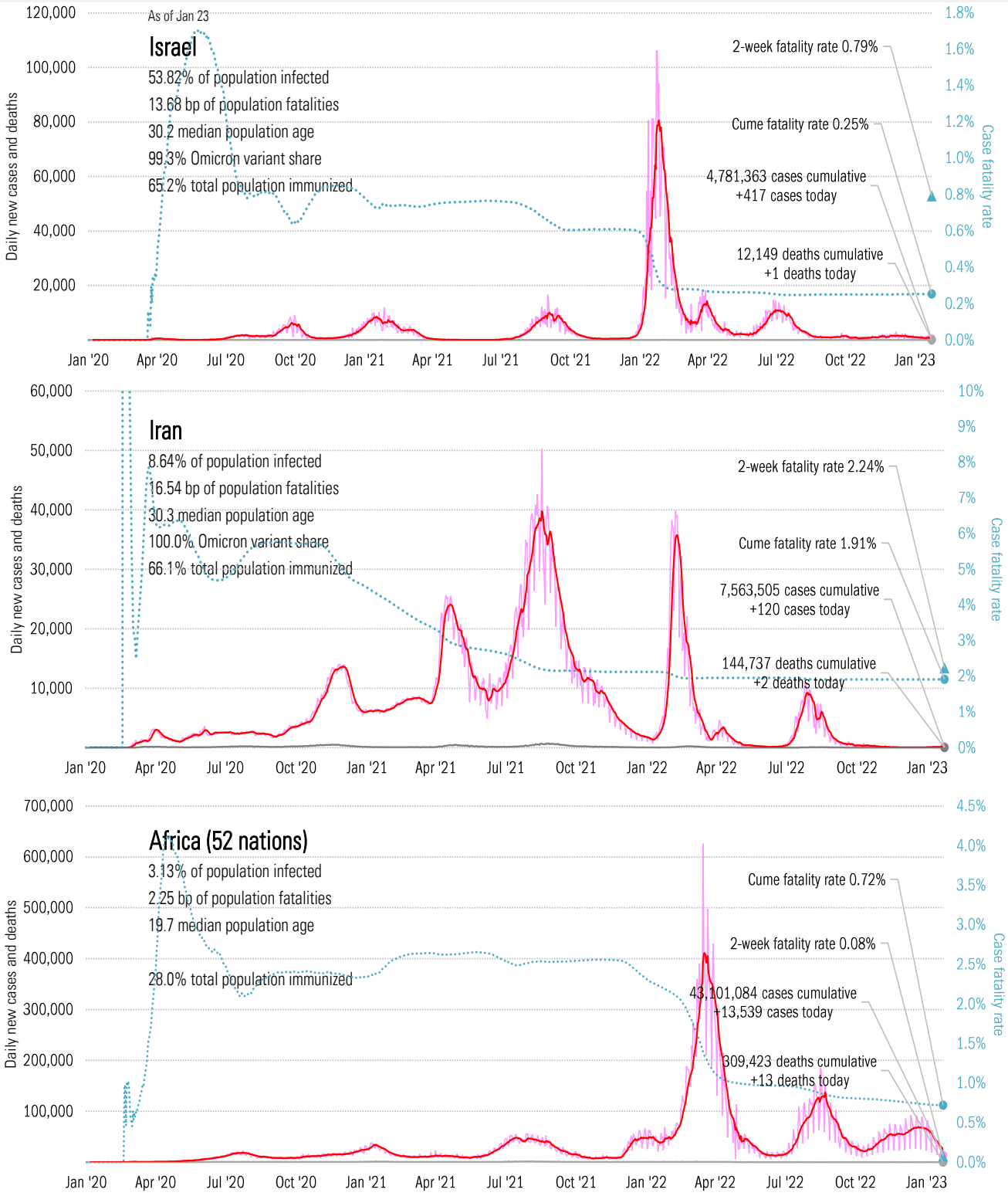
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

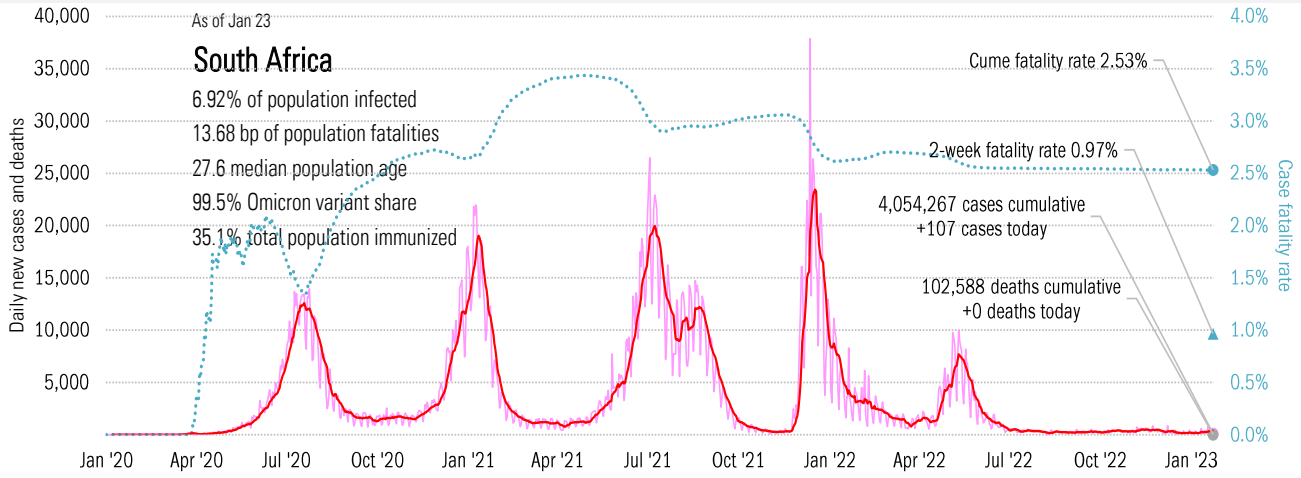
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations