Trend Macrolytics, LLC
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Thomas Demas, Managing Director
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Data Insights: Covid-2019 Monitor

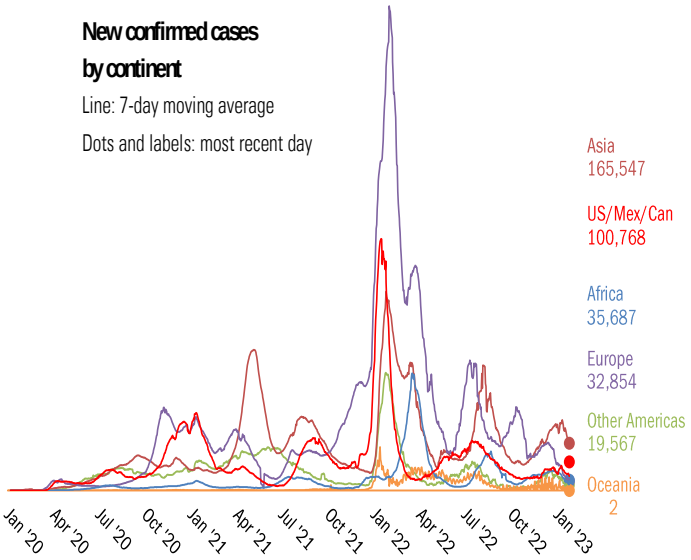
Thursday, January 26, 2023

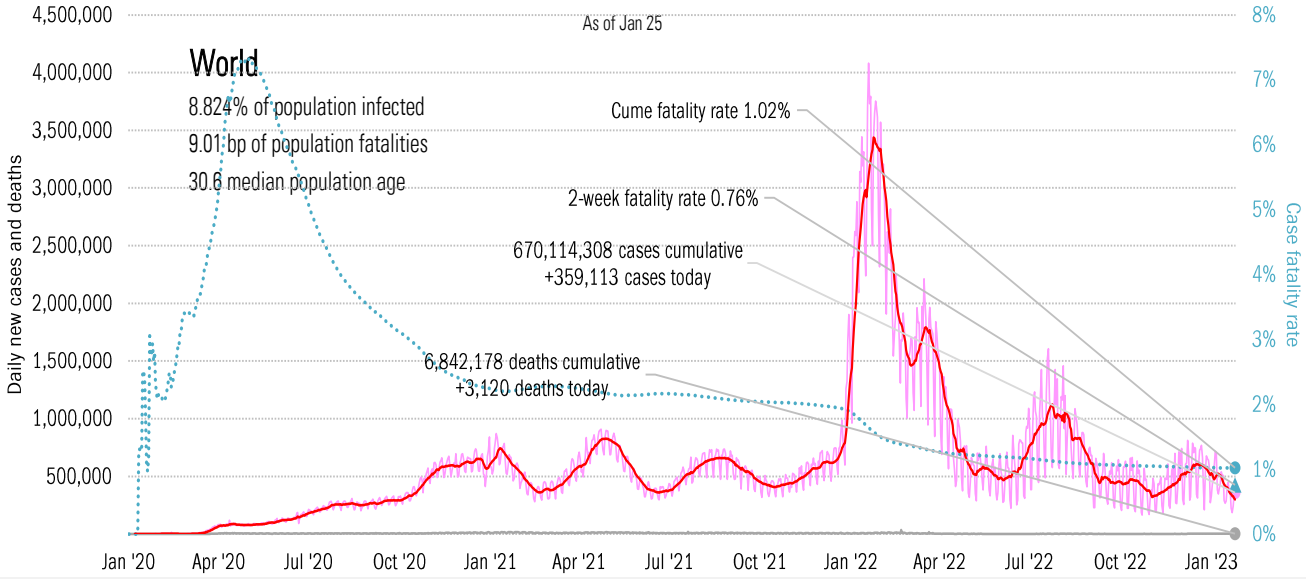
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries (see China note page 14)

New cases		New Deaths	
Japan	79,354	China	1,808
China	67,391	United States	607
United States	42,017	Japan	368
Korea, South	35,096	Germany	138
Brazil	17,267	Brazil	118
Taiwan*	16,513	Italy	71
Germany	13,807	Australia	69
Italy	7,413	Spain	61
Russia	6,404	France	59
France	5,382	Sweden	54





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

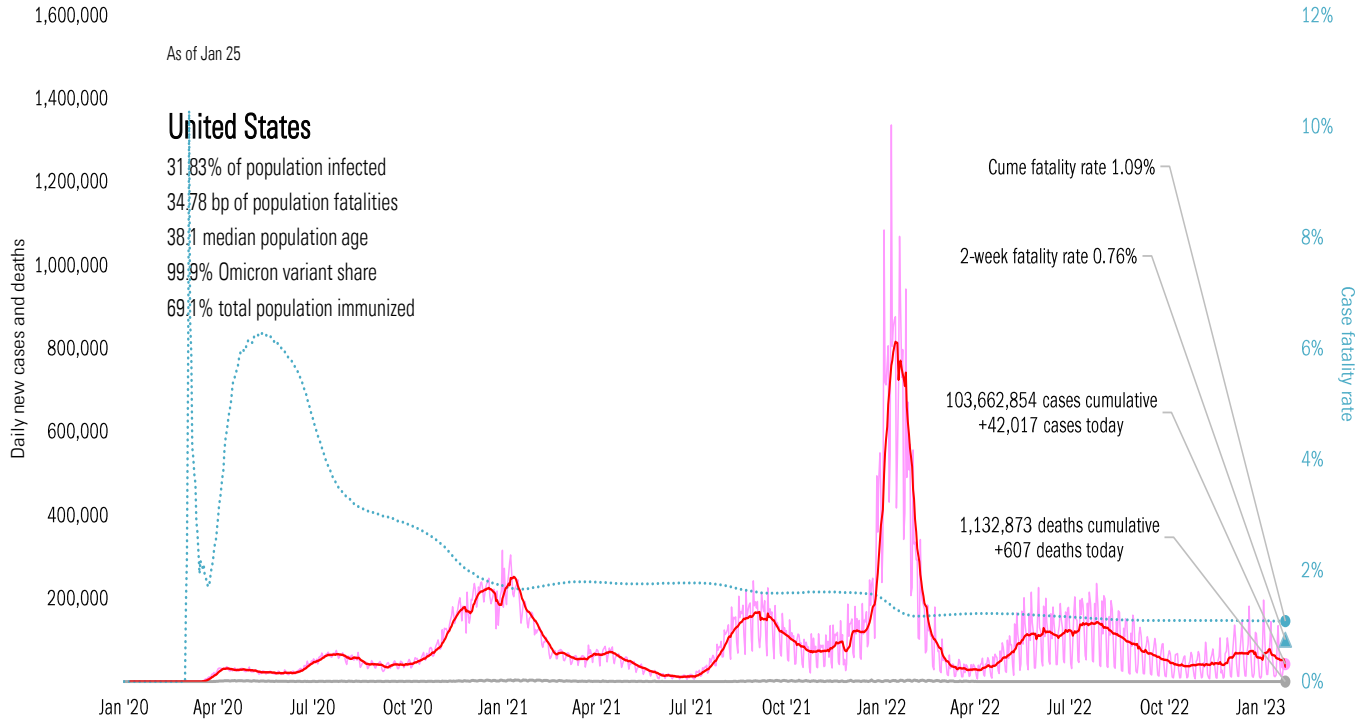
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	7,177	FL	107	PA	201	CA	11,962,992	CA	99,817	TX	580,150	RI	90%	NM	90%
NY	3,343	CA	44	AL	97	TX	8,351,197	TX	92,553	CA	555,428	DE	88%	TX	88%
TX	2,832	NY	38	MI	115	FL	7,443,954	FL	84,927	FL	524,674	MA	86%	NH	87%
NJ	2,102	MI	37	CO	40	NY	6,693,227	NY	76,217	NY	346,290	NH	85%	AL	85%
NC	2,054	PA	34	UT	24	IL	4,008,844	PA	49,633	OH	240,363	DC	84%	NC	84%
VA	1,516	CO	29	AR	38	PA	3,469,076	GA	41,915	GA	238,589	MN	83%	MA	84%
PA	1,431	SC	24	NY	371	NC	3,412,542	MI	41,445	PA	225,428	MO	83%	RI	84%
SC	1,411	WI	24	SD	12	OH	3,339,612	OH	41,249	IL	208,978	MD	82%	DC	83%
CA	1,229	MA	21	DE	17	GA	3,027,856	IL	40,980	MI	178,101	WV	82%	OK	82%
MA	1,200	AZ	21	NM	18	MI	3,024,478	NJ	35,761	NJ	158,859	NC	82%	MS	81%
	24,295		379		933		54,733,778		604,497		3,256,860				
All states	42,017		607		4,252	All states	103,662,854		1,132,873		5,905,221	All states	70%		67%
Top ten	58%		62%		22%	Top ten	54%		55%		55%	Median	78%		76%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
CA	-3,126	NY	-53	VA	-63
MO	-330	CA	-44	MN	-35
CO	-259	VA	-18	AZ	-34
CT	-160	MD	-17	GA	-22
ME	-75	AK	-3	MO	-20



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

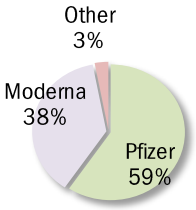
Rolling out the vaccines in the US and the world

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

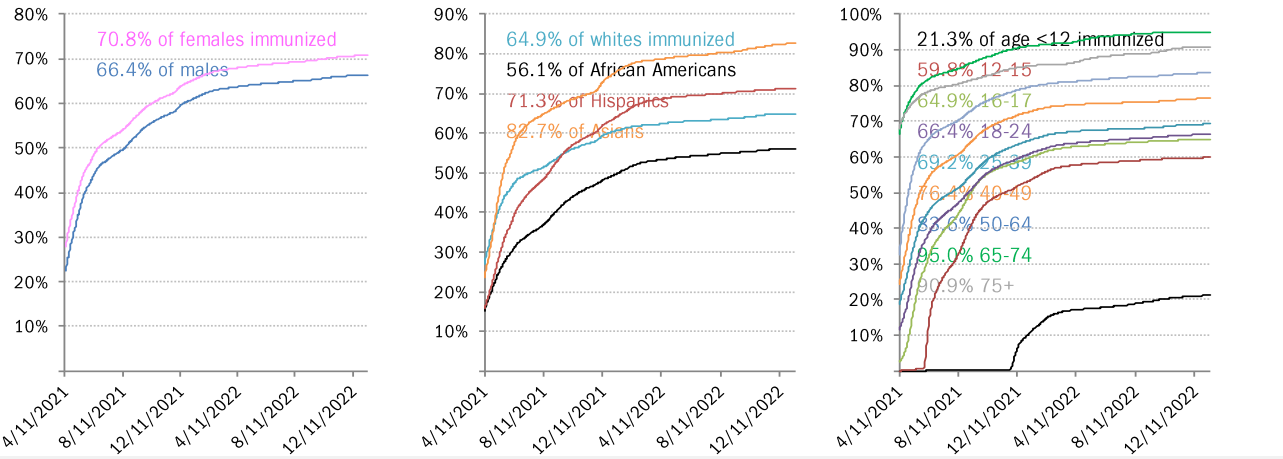
"Immunity" = two doses

Best
Middle
Worst

As of Jan 20

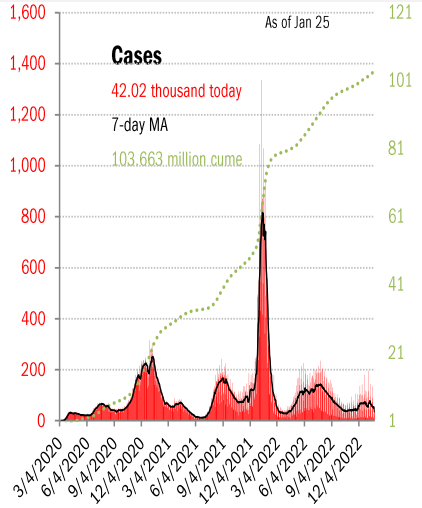
					WI					ME
					75.0%					95.0%
					68.1%					83.2%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
85.1%	63.8%	68.2%	69.2%	78.6%	79.0%	69.3%		94.3%	95.0%	88.0%
75.9%	56.4%	59.1%	58.5%	72.0%	71.1%	62.2%		80.6%	85.5%	71.8%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.4%	77.5%	60.8%	83.6%	70.5%	64.3%	65.6%	90.4%	94.5%	95.0%	
72.2%	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%

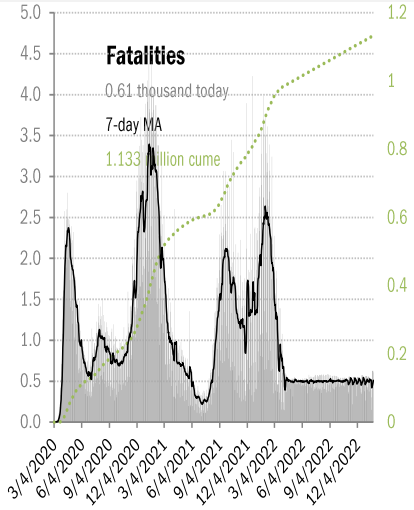
The demographics of US vaccination

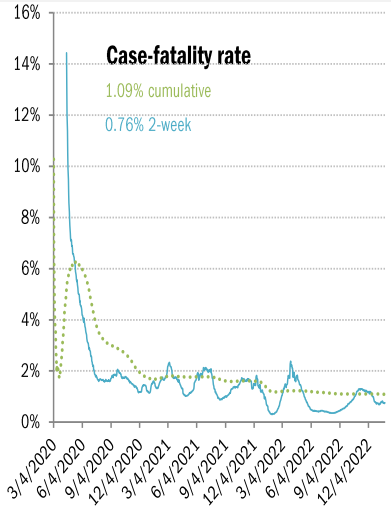


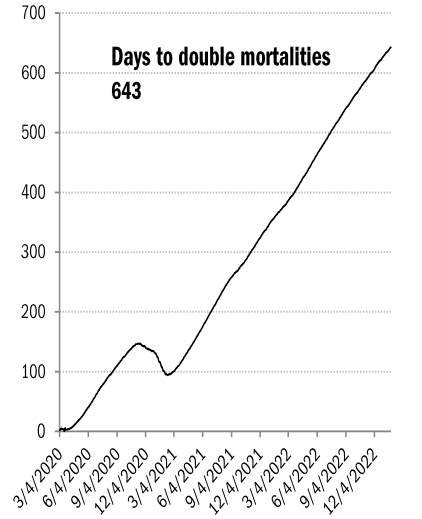
Source: CDC, CDC, Our World in Data, TrendMacro calculations

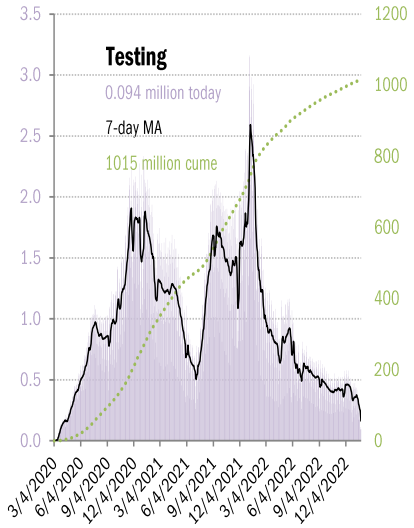
US deep-dive

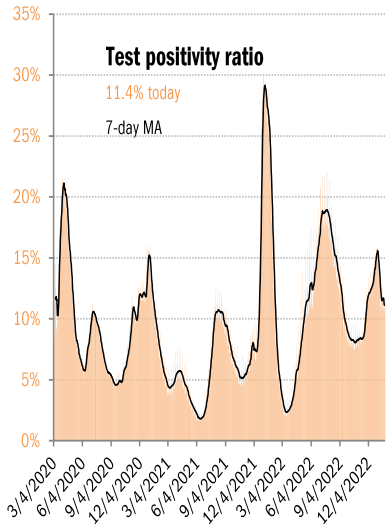


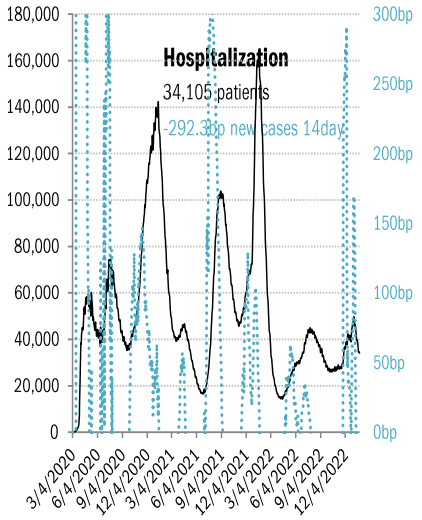


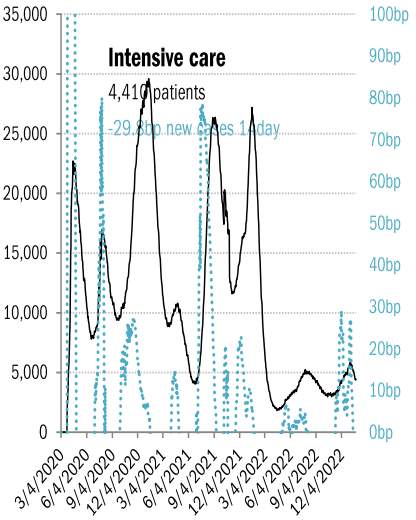


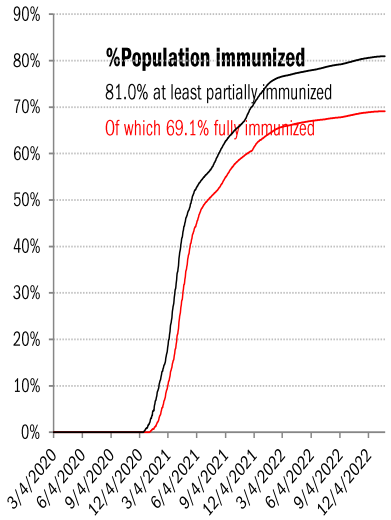












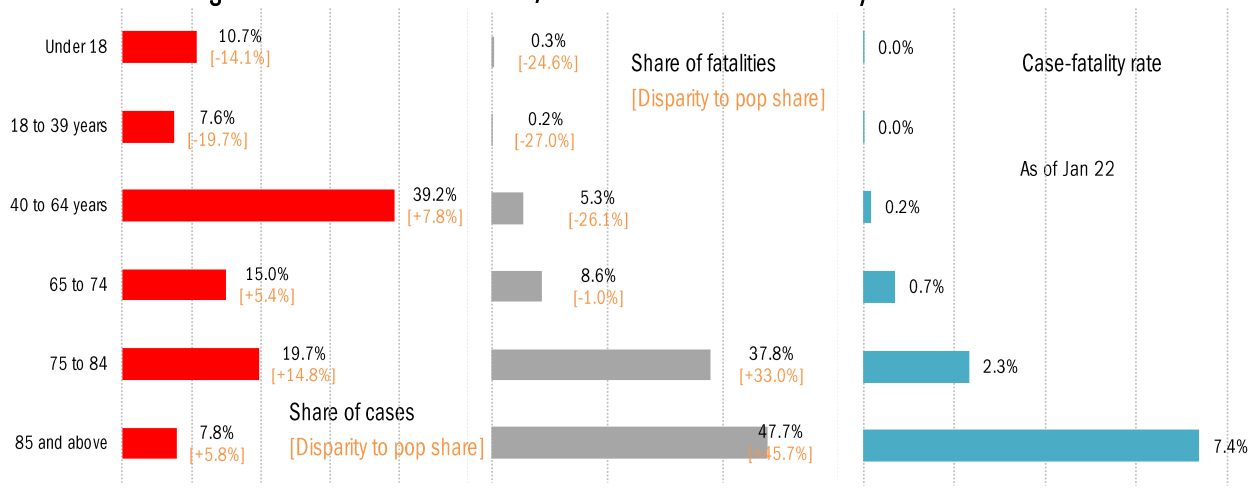
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

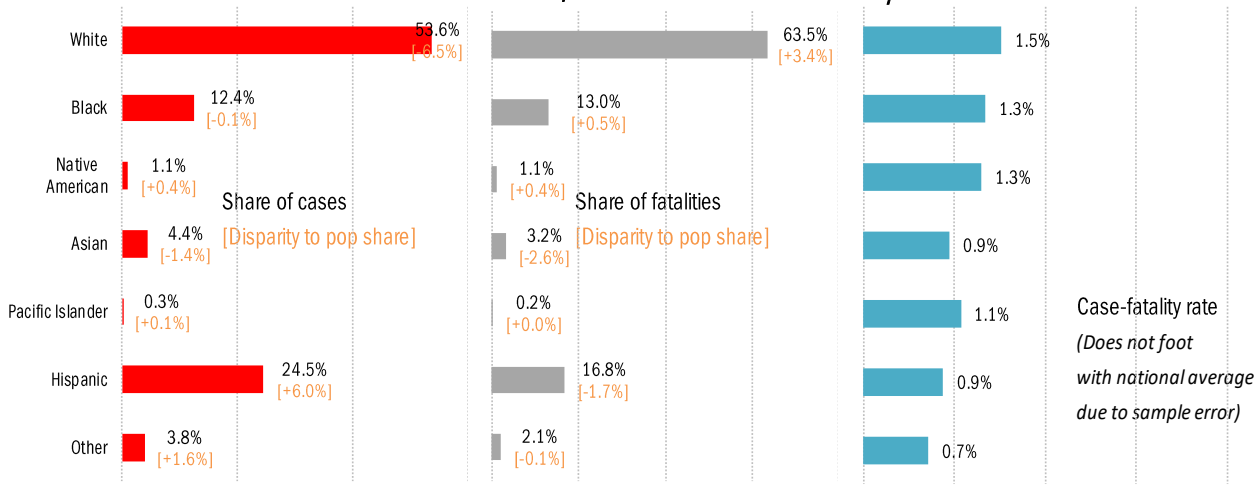
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



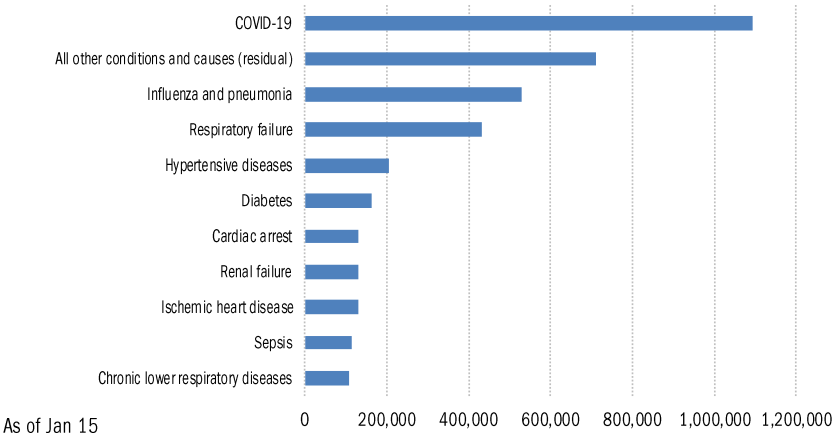
Racial distribution of US cases, fatalities and case-fatality rates

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

[Pfizer Exposed For Exploring "Mutating" COVID-19 Virus For New Vaccines Via 'Directed Evolution']
Project Veritas
January 25, 2023

[Early Estimates of Bivalent mRNA Booster Dose Vaccine Effectiveness in Preventing Symptomatic SARS-CoV-2 Infection Attributable to Omicron BA.5– and XBB/XBB.1.5–Related Sublineages Among Immunocompetent Adults — Increasing Community Access to Testing Prog]
Ruth Link-Gelles
Centers for Disease Control
January 25, 2023

[Effectiveness of Bivalent Boosters against Severe Omicron Infection]
Dan-Yu Lin et al.
New England Journal of Medicine
January 25, 2023

[Two new studies paint encouraging picture of Covid-19 vaccine's performance]
Helen Branswell
Stat
January 25, 2023

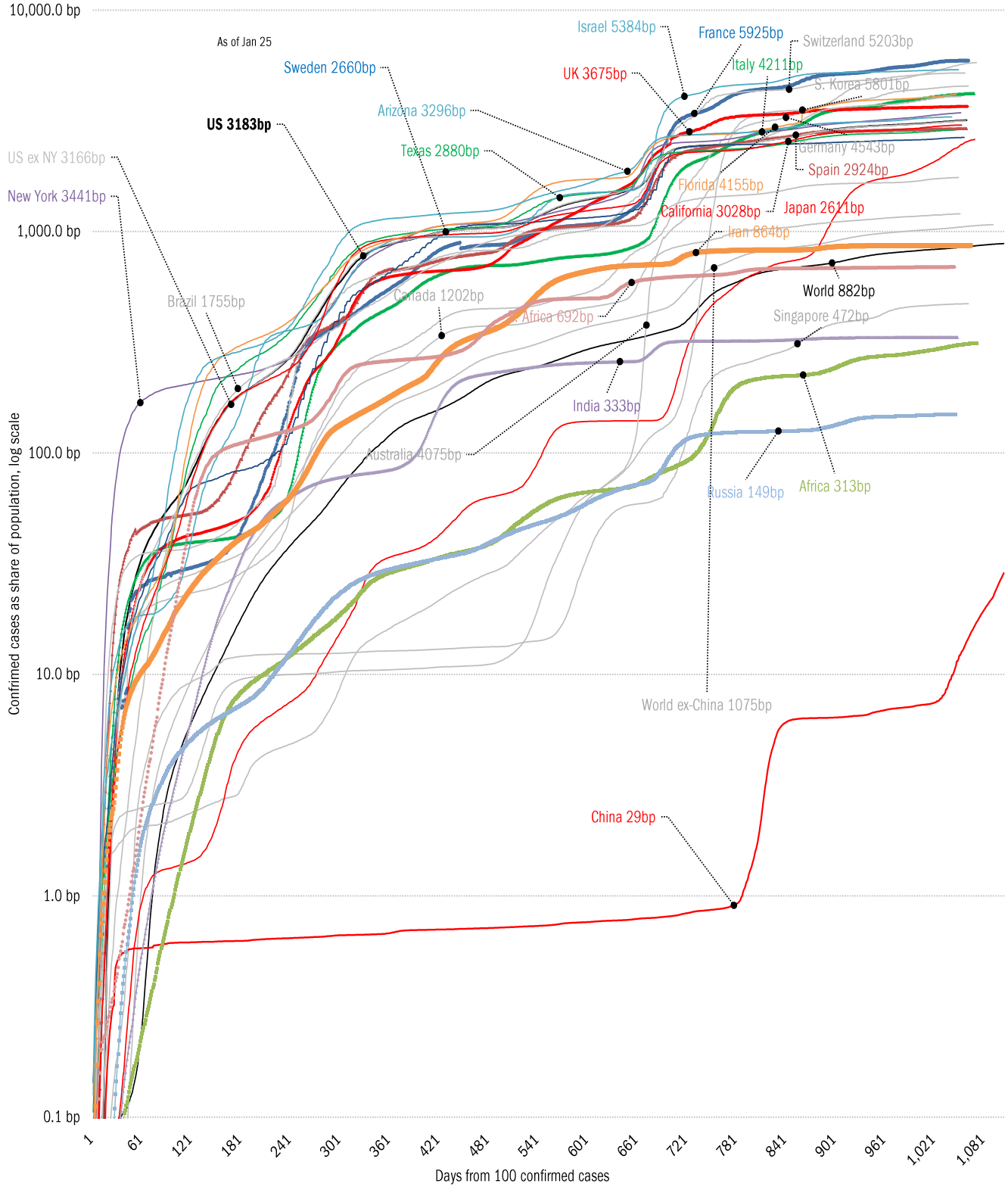
[British government data reveal very similar Covid hospitalization rates in vaccinated and unvaccinated people in many age groups]
Alex Berenson
Unreported Truths
January 25, 2023

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

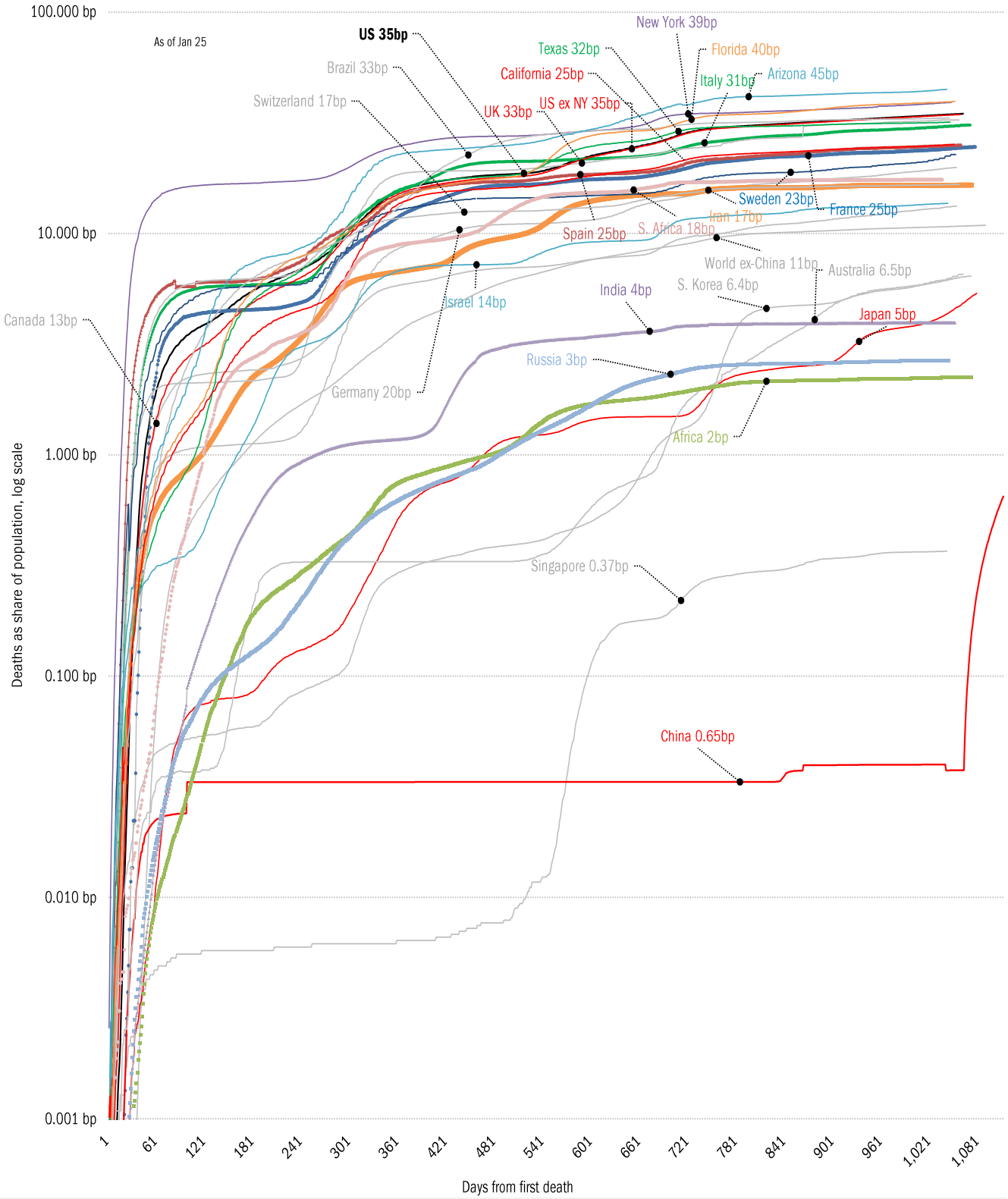
Share of infected population from first day with 100 confirmed cases, log scale



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

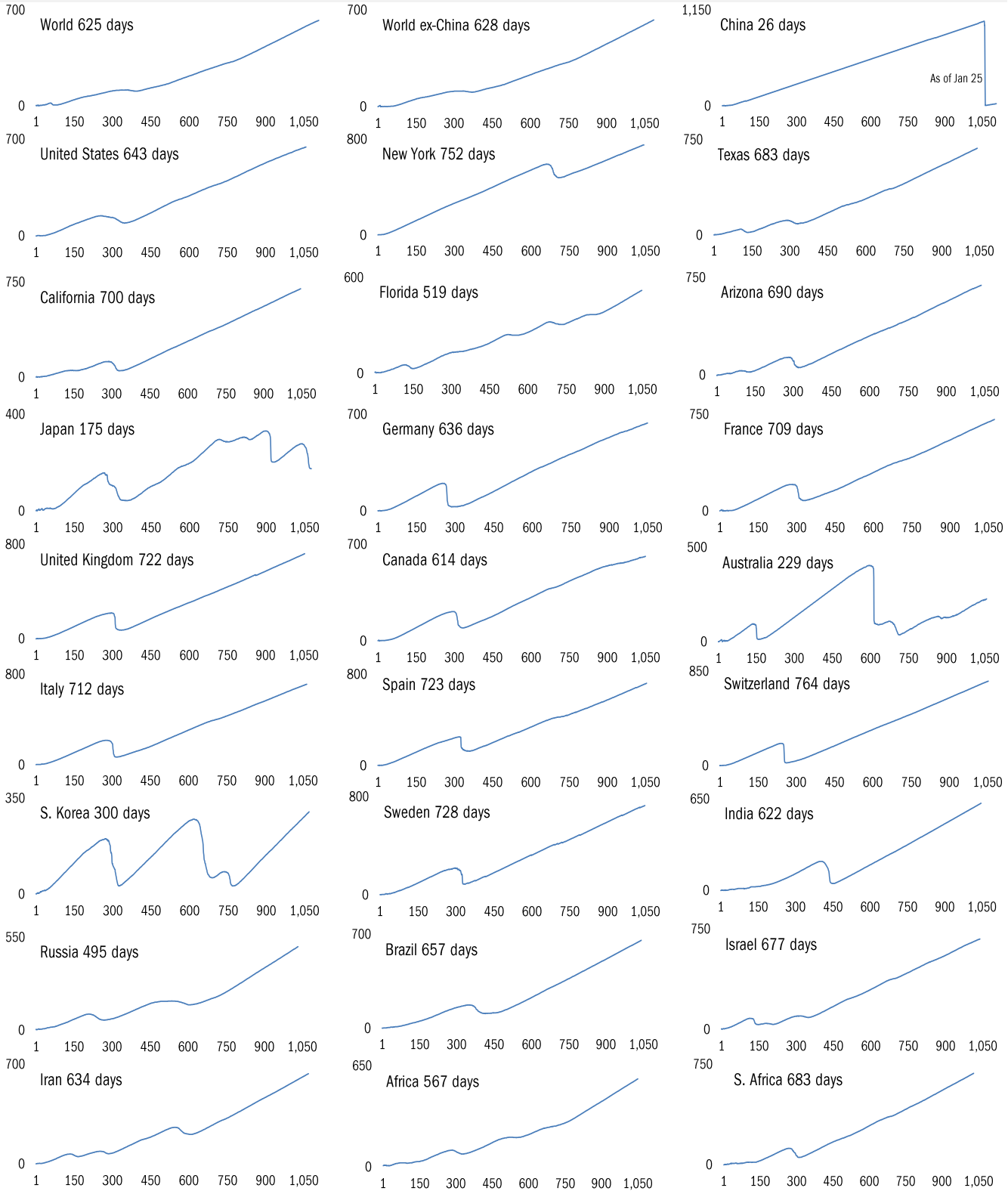


Source: Johns Hopkins, TrendMacro calculations

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

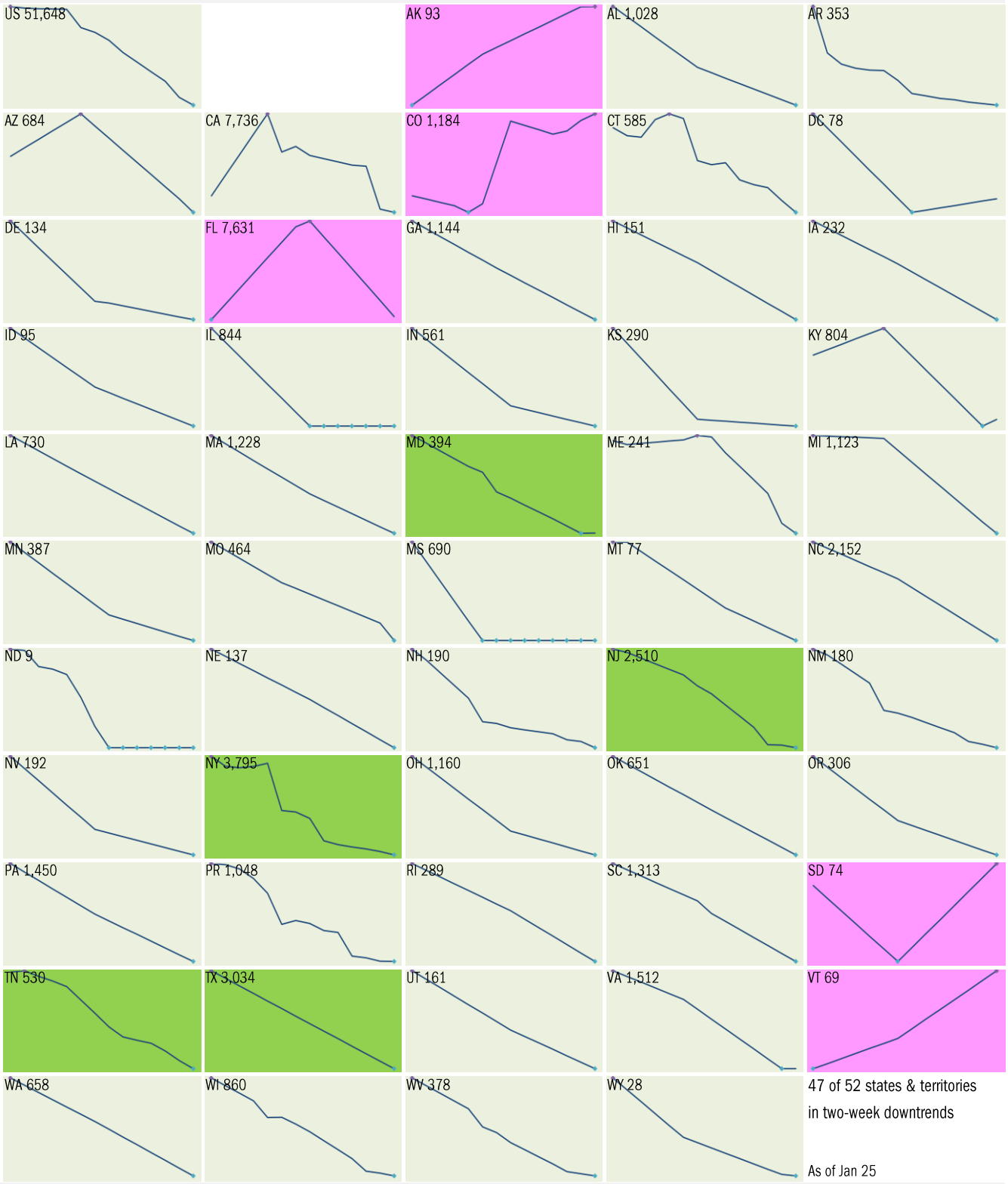


Source: Johns Hopkins, TrendMacro calculations

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

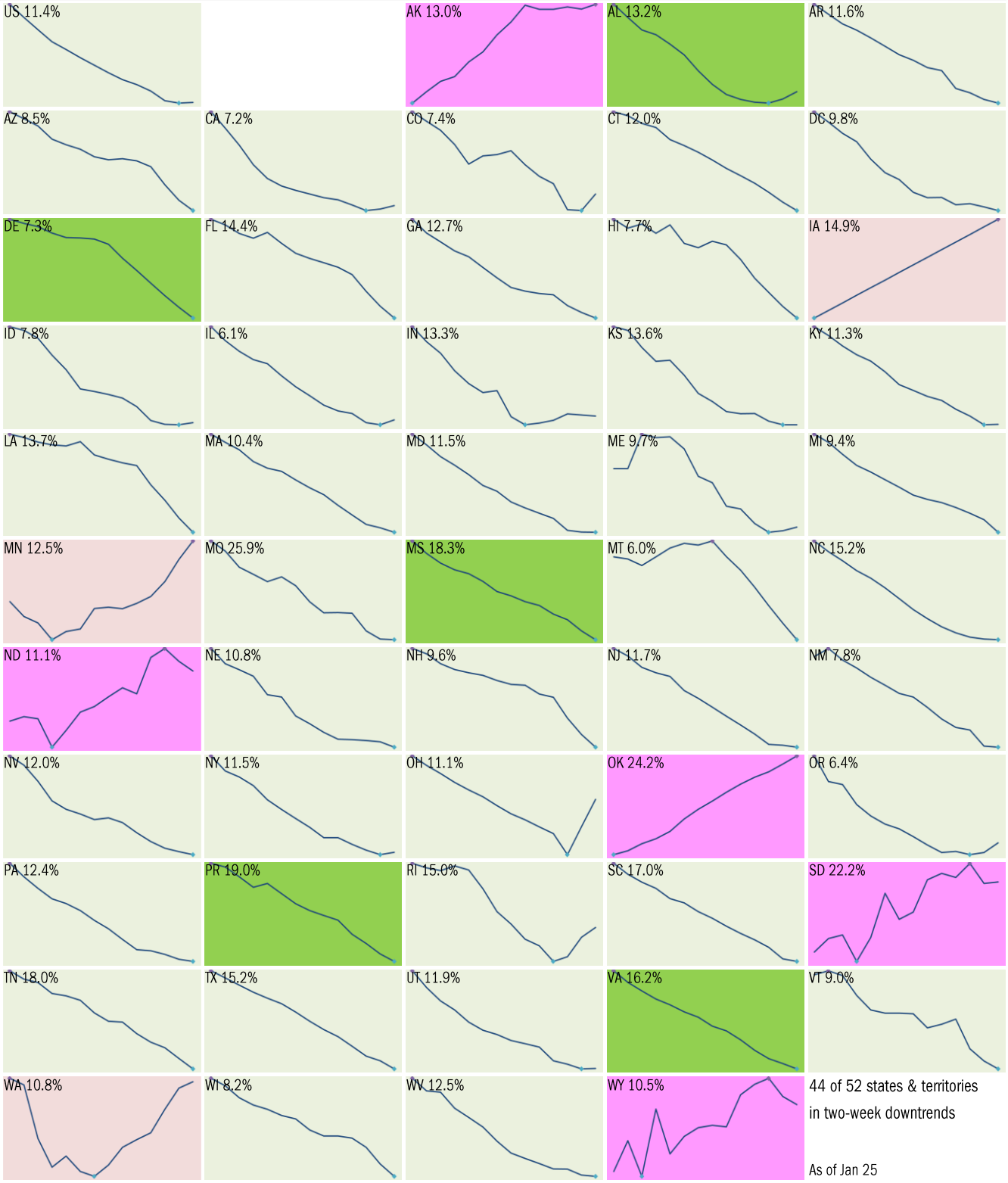


Source: Johns Hopkins, TrendMacro calculations

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

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

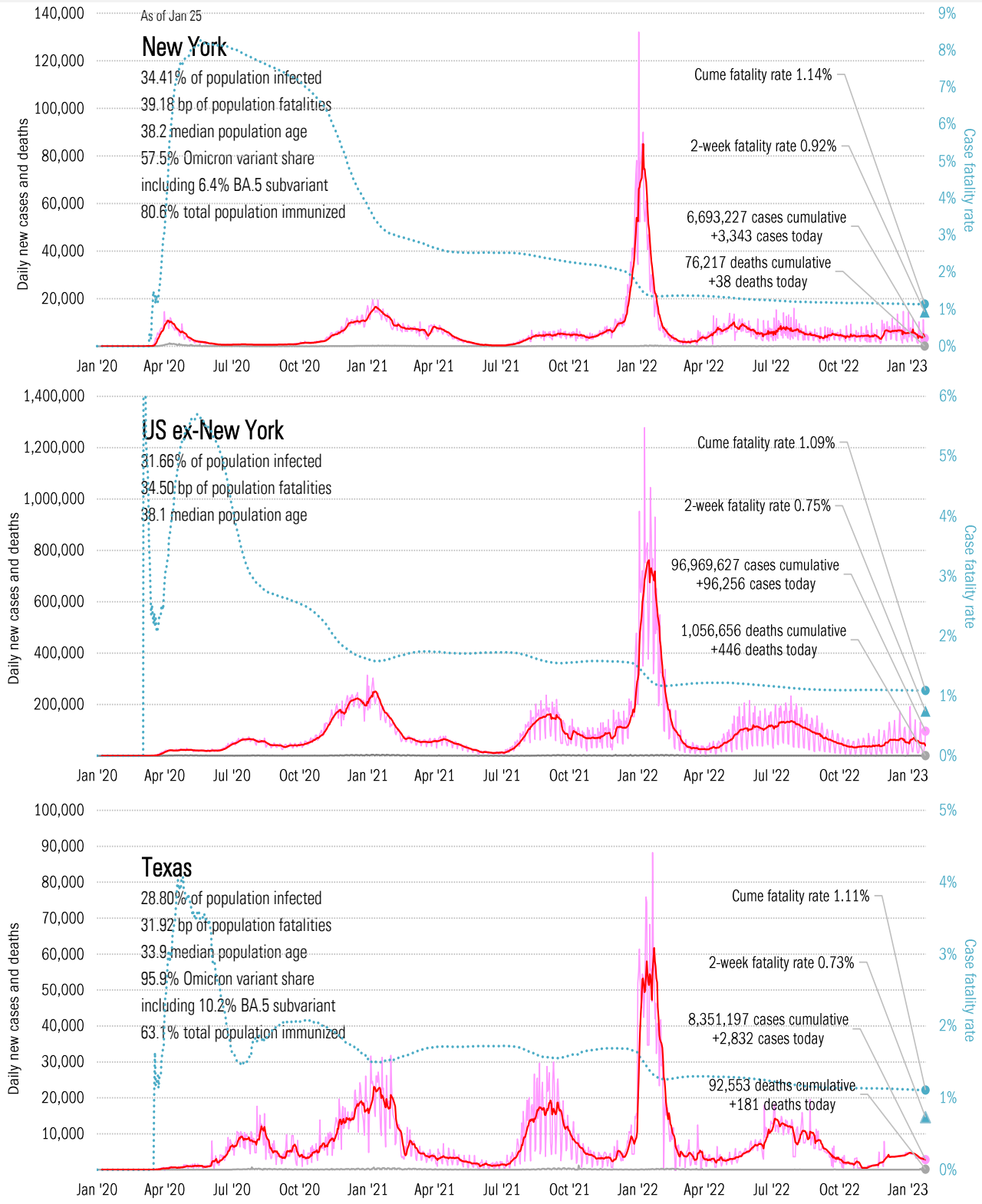
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

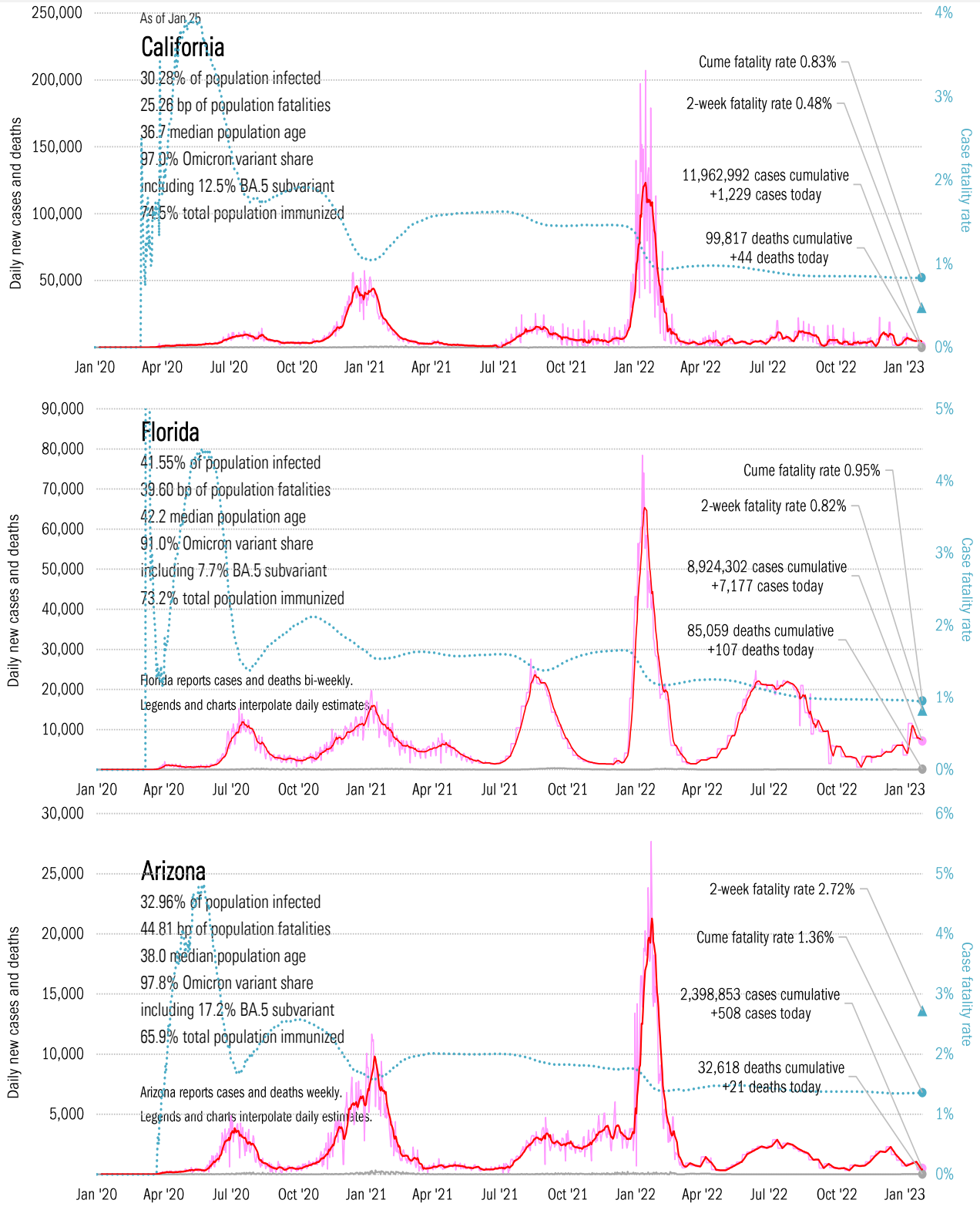
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

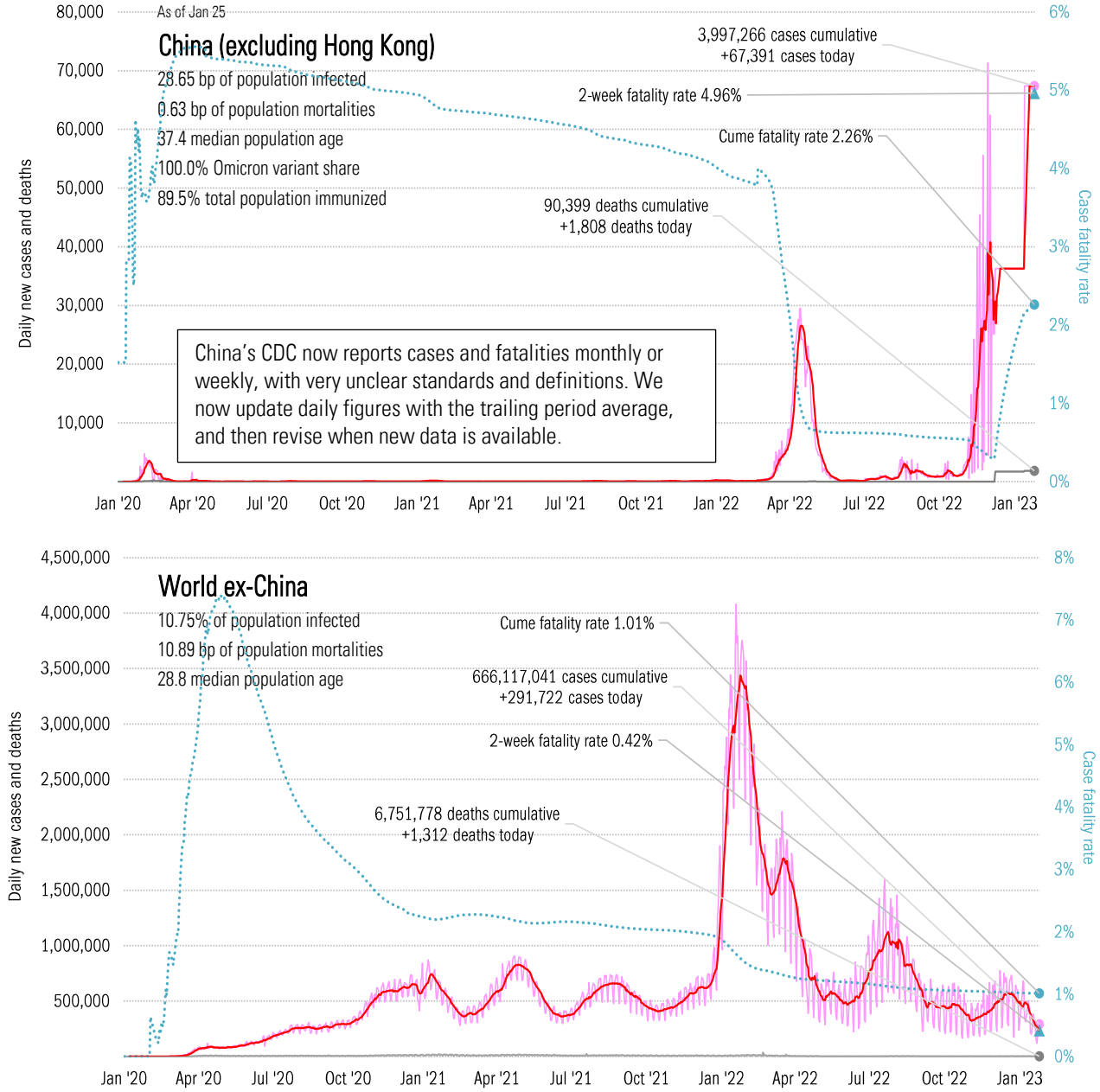
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

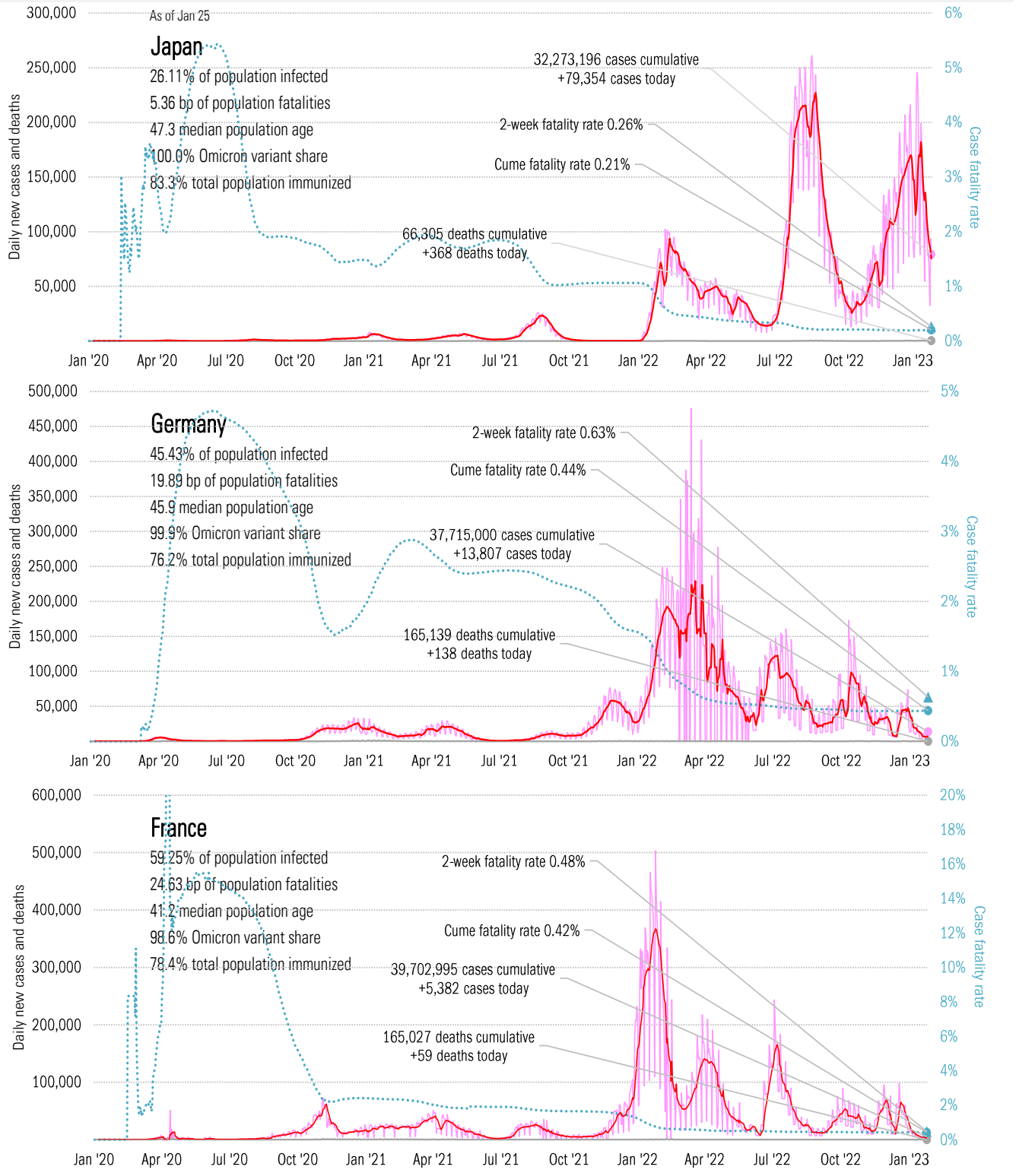
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, China CDC, TrendMacro calculations

Impact in the largest economies

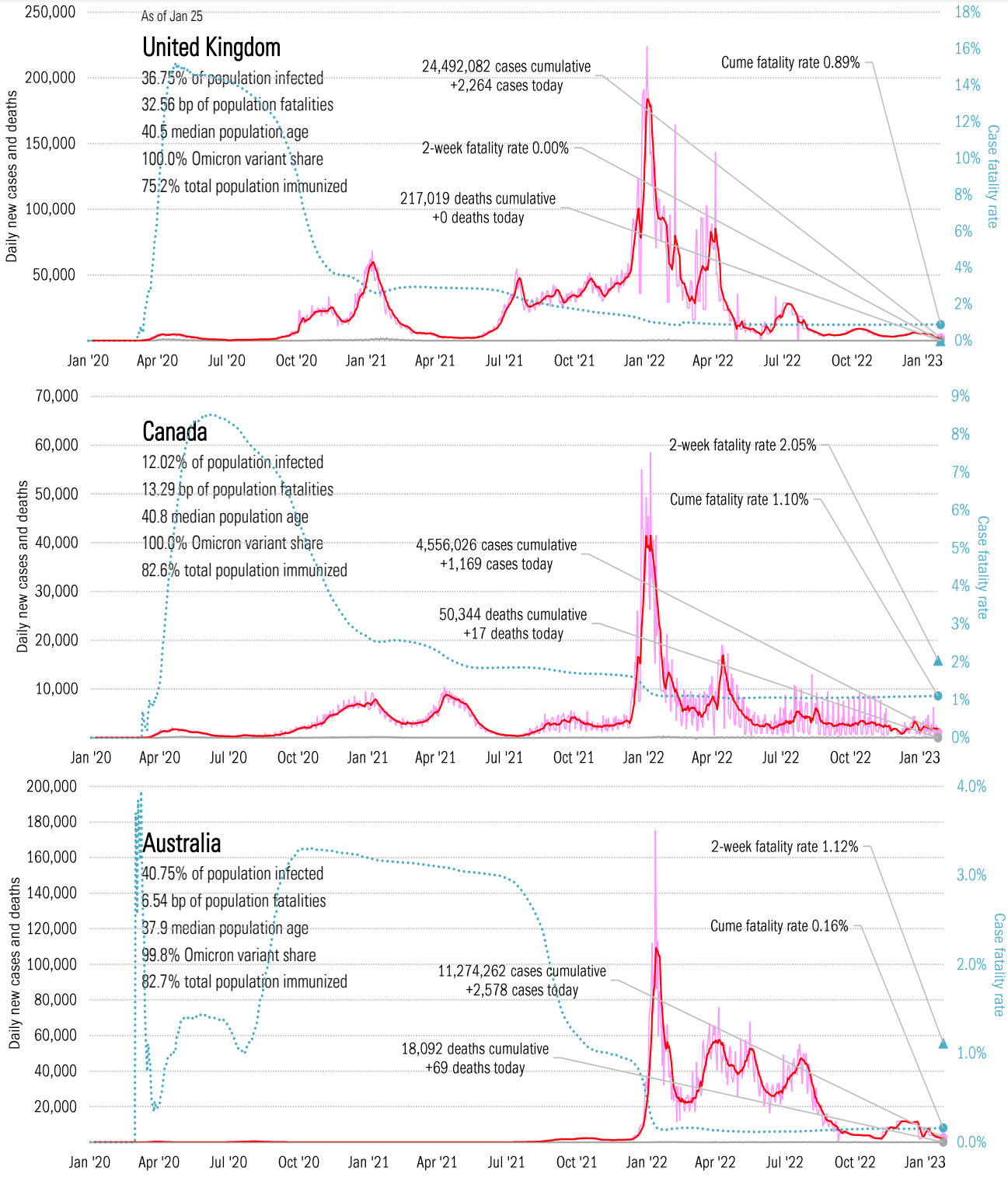
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

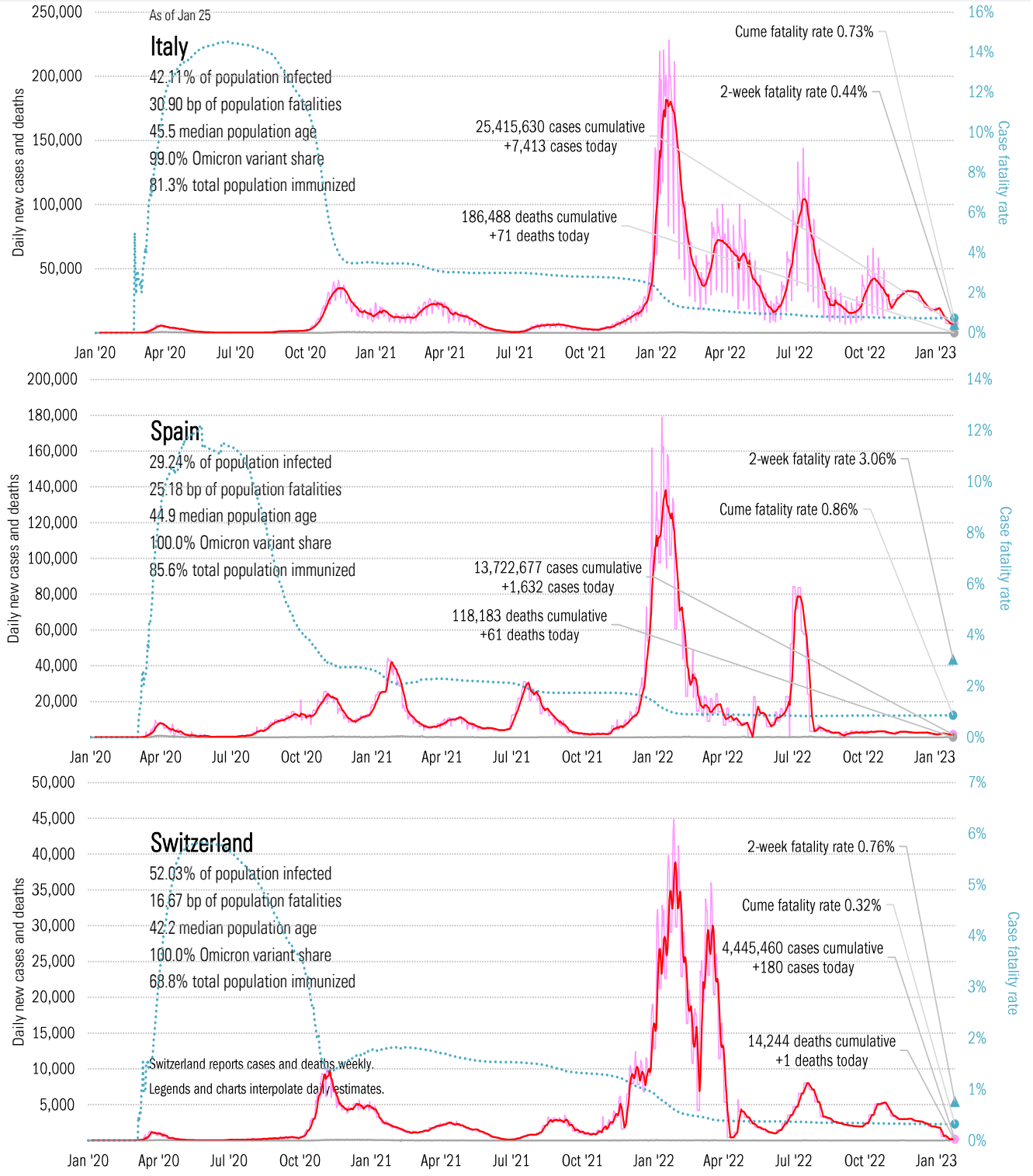
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

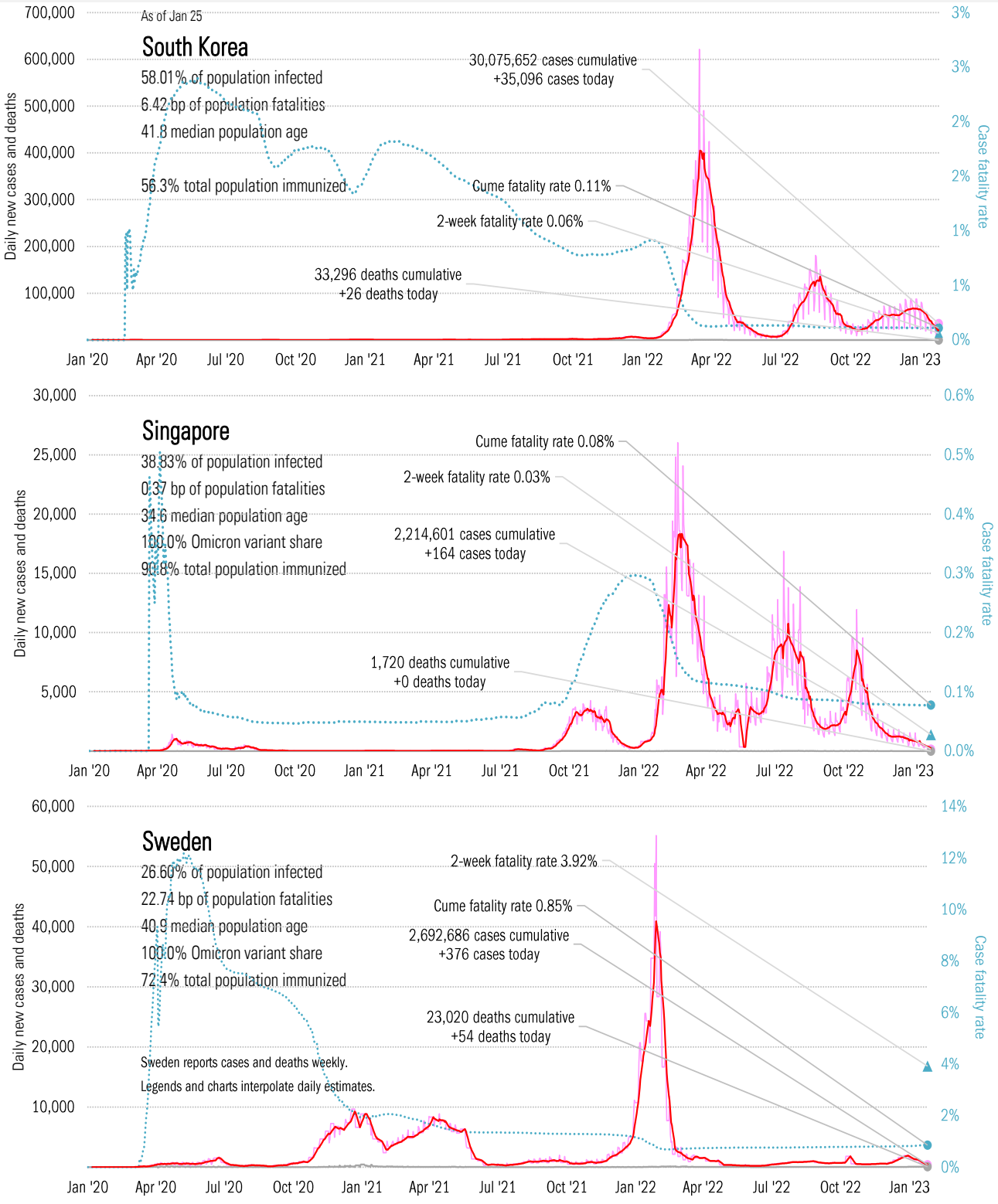
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

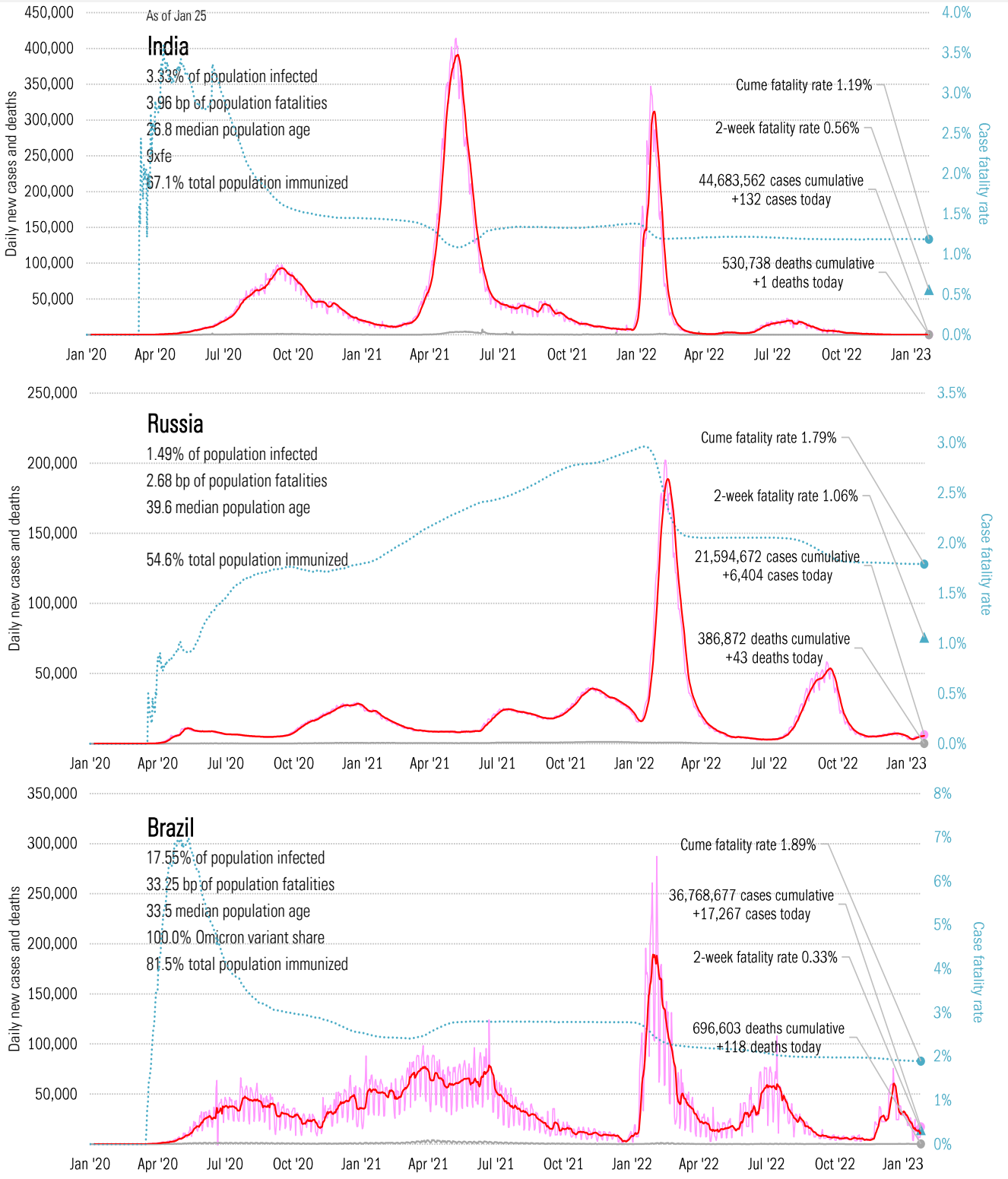
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

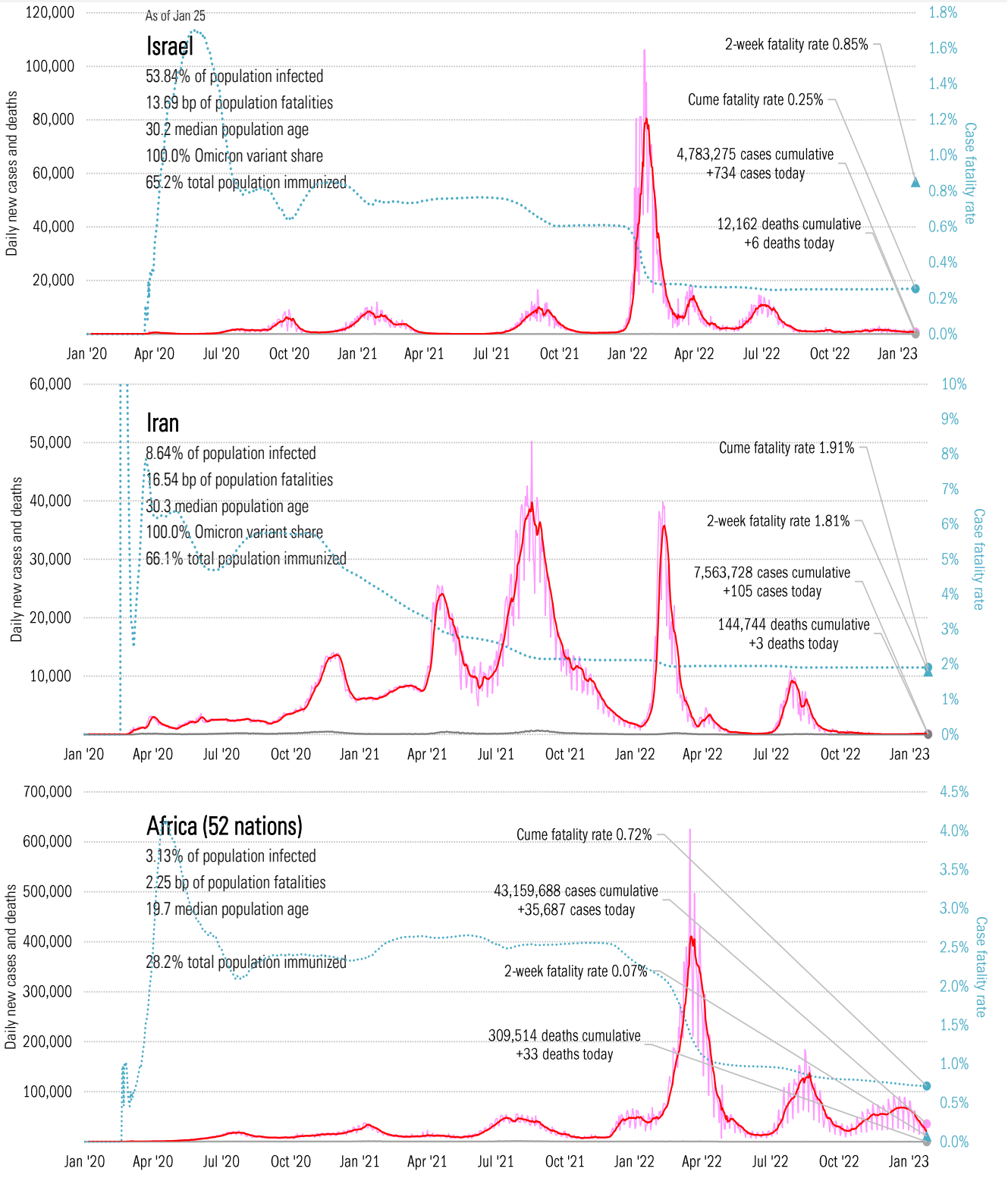
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

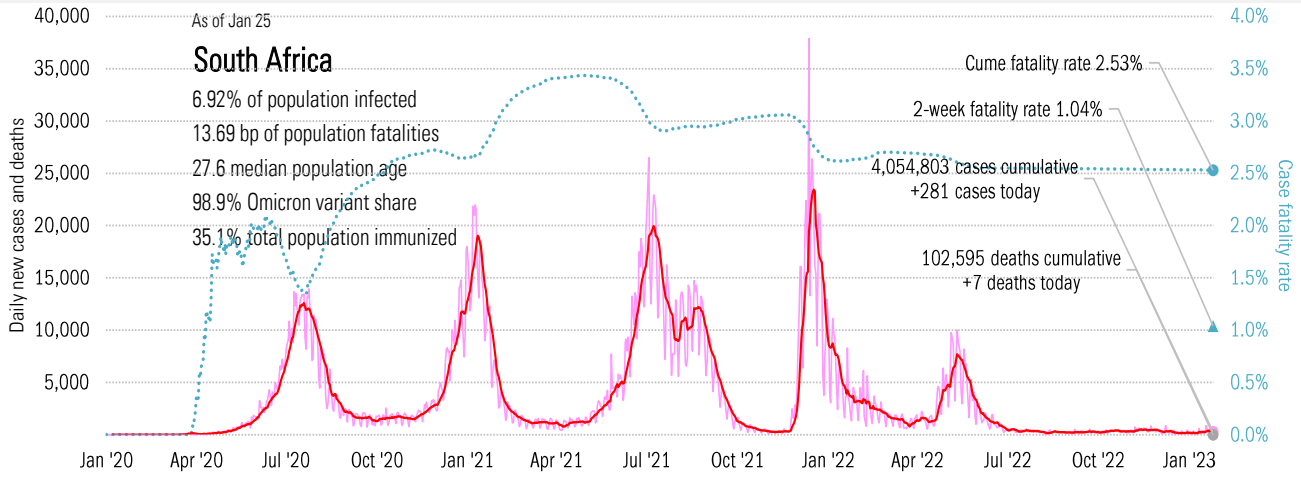
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations