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Data Insights: Covid-2019 Monitor

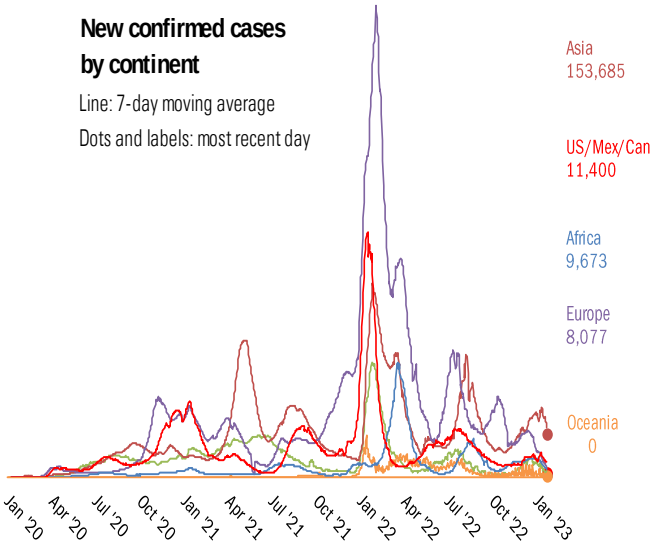
Monday, January 23, 2023

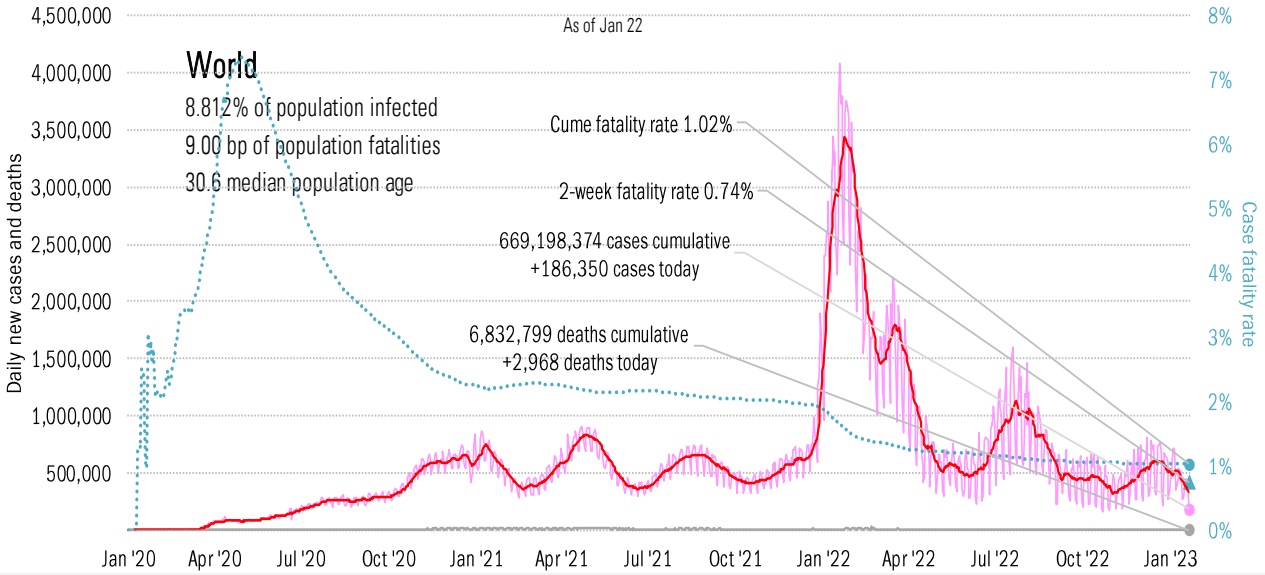
The global scorecard

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
Japan	64,450	United States	513
United States	41,499	Japan	326
Taiwan*	19,187	Germany	118
Korea, South	9,227	Italy	71
Germany	8,866	Australia	69
Italy	7,413	Spain	61
Russia	5,691	Sweden	54
France	4,475	France	44
Australia	2,578	Russia	40
	230,776		3,103





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

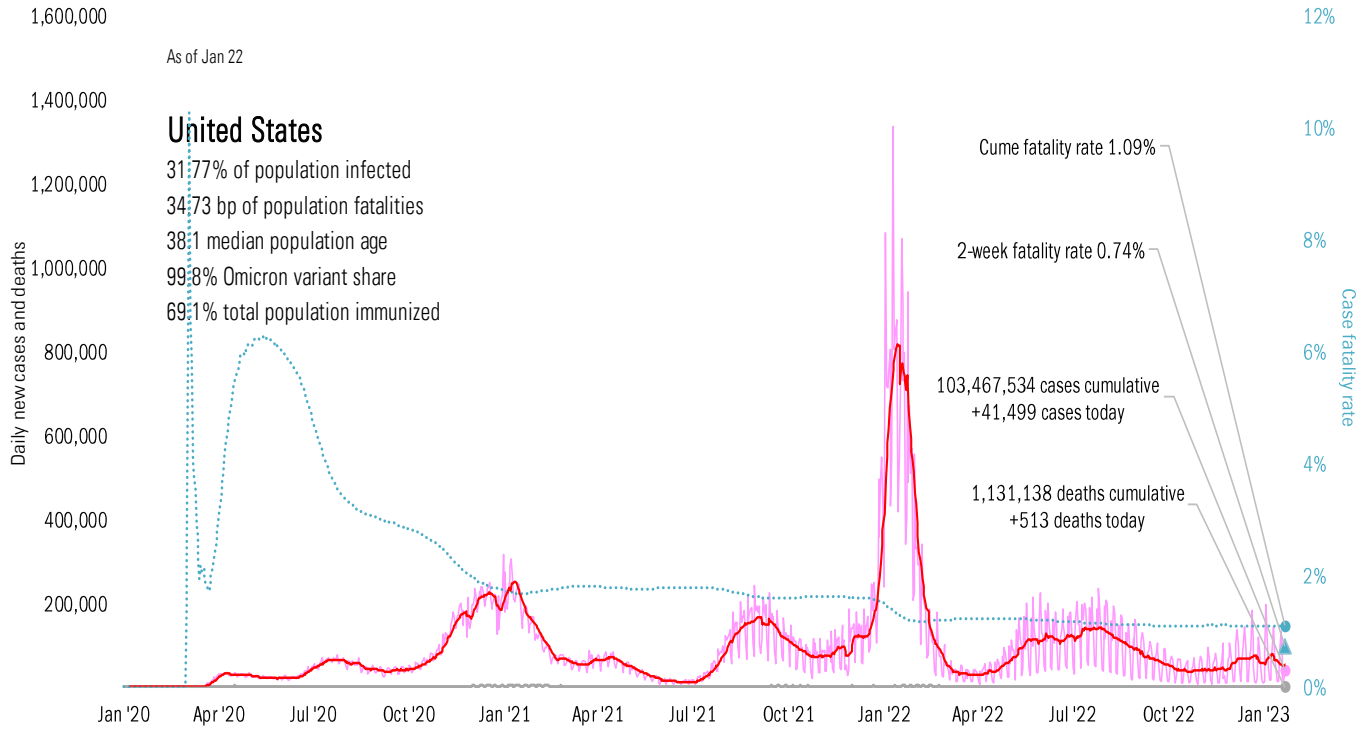
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	7,177	FL	107	GA	185	CA	11,957,408	CA	99,685	TX	578,903	RI	89%	TX	88%
CA	4,725	CO	51	PA	199	TX	8,329,536	TX	92,367	CA	554,351	DE	87%	OK	87%
NJ	2,614	TN	29	NJ	228	FL	7,443,954	FL	84,927	FL	523,313	MA	87%	AL	87%
NC	2,249	MI	26	IN	93	NY	6,675,480	NY	75,945	NY	345,208	MN	85%	RI	86%
TX	1,947	NY	21	FL	359	IL	4,008,844	PA	49,397	OH	239,947	MD	85%	NC	86%
VA	1,508	MA	21	NC	161	PA	3,458,136	GA	41,772	GA	238,305	MO	84%	MA	83%
NY	1,474	VA	20	WI	74	NC	3,398,161	OH	41,249	PA	224,870	DC	83%	DC	83%
PA	1,470	IL	19	MN	57	OH	3,339,612	MI	41,185	IL	208,614	NC	83%	VT	83%
MI	1,376	PA	19	WA	69	GA	3,020,166	IL	40,980	MI	177,854	WV	83%	AK	83%
MA	1,200	AZ	18	MI	107	MI	3,017,948	NJ	35,725	NJ	158,246	WA	82%	GA	82%
	25,740		332		1,532		54,649,245		603,232		3,249,611				
All states	41,499		513		4,338	All states	103,467,534		1,131,138		5,893,480	All states	70%		67%
Top ten	62%		65%		35%	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	
CT	-471	SC	-12	MA	-55
NY	-307	WV	-12	CT	-23
AR	-261	AR	-7	NH	-10
AK	0	WI	-7	VT	-10
AL	0	CT	-2	SC	-8



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

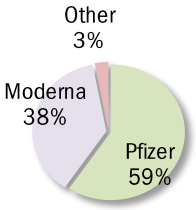
Rolling out the vaccines in the US and the world

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

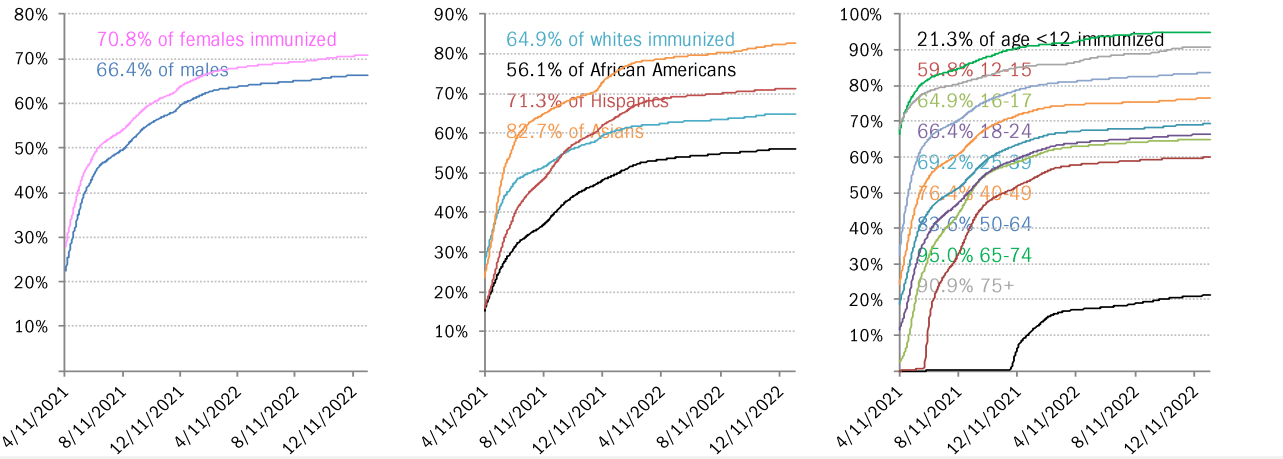
"Immunity" = two doses

Best
Middle
Worst

As of Jan 20

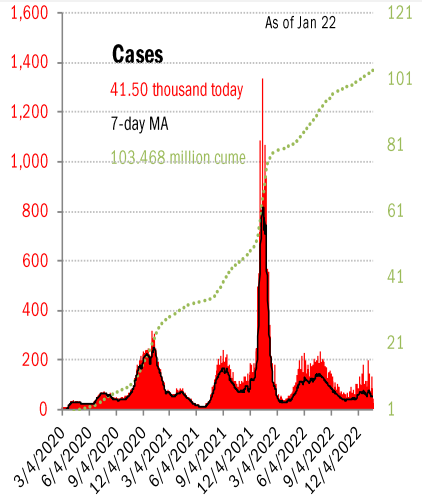
					WI					ME
					75.0%					95.0%
					68.1%					83.2%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
85.1%	63.8%	68.2%	69.2%	78.6%	79.0%	69.3%		94.3%	95.0%	88.0%
75.9%	56.4%	59.1%	58.5%	72.0%	71.1%	62.2%		80.6%	85.5%	71.8%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.4%	77.5%	60.8%	83.6%	70.5%	64.3%	65.6%	90.4%	94.5%	95.0%	
72.2%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

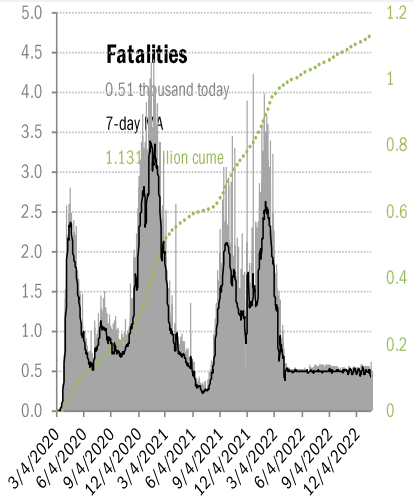
The demographics of US vaccination

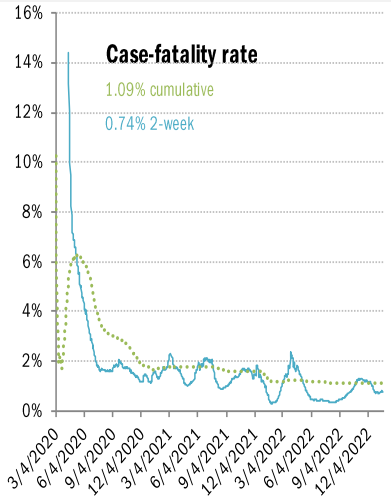


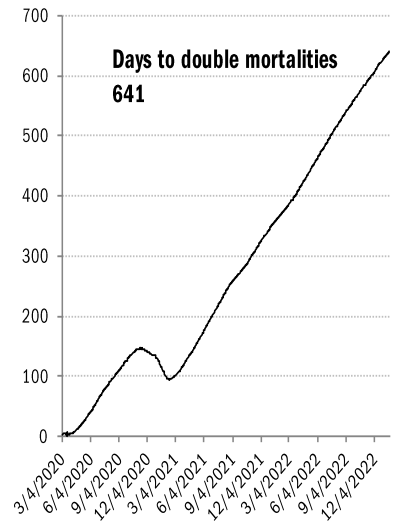
Source: CDC, CDC, Our World in Data, TrendMacro calculations

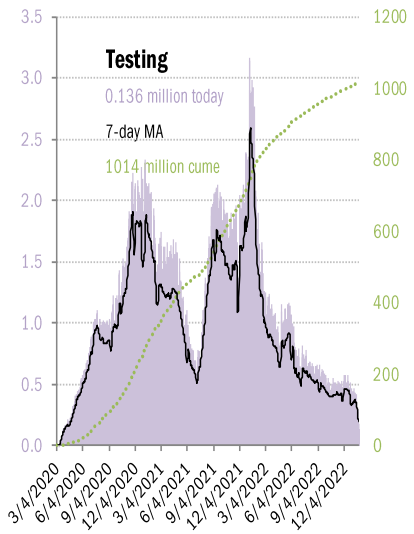
US deep-dive

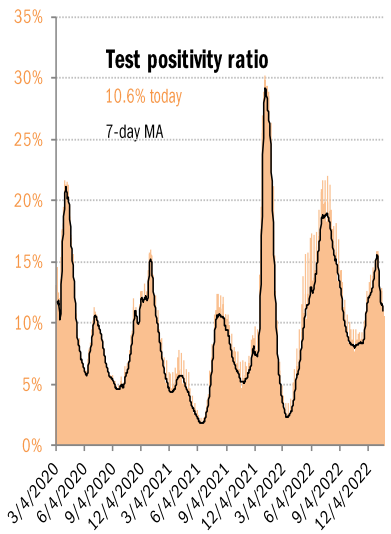


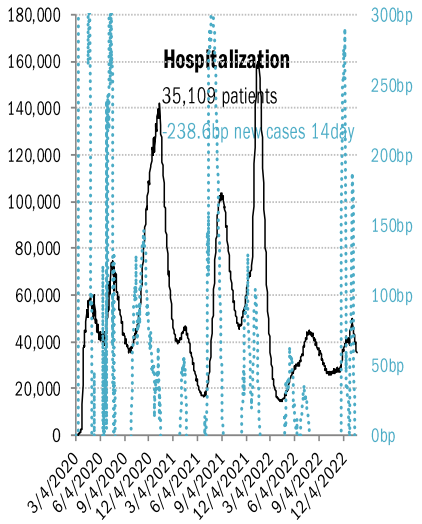


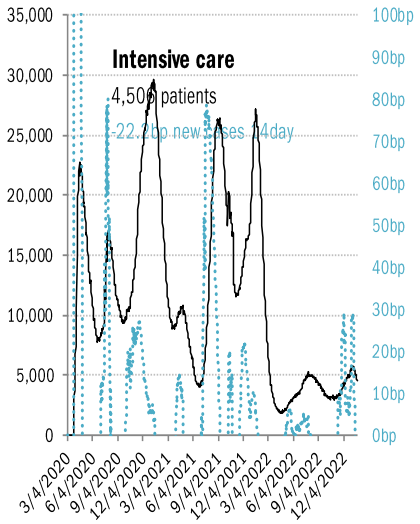


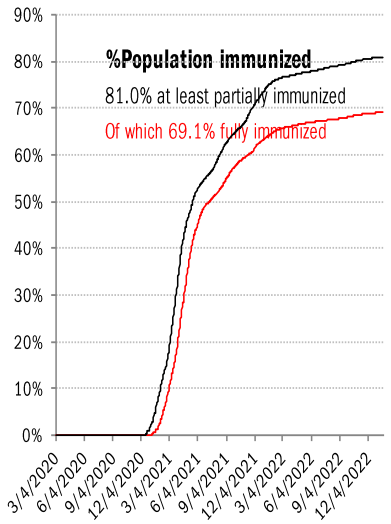












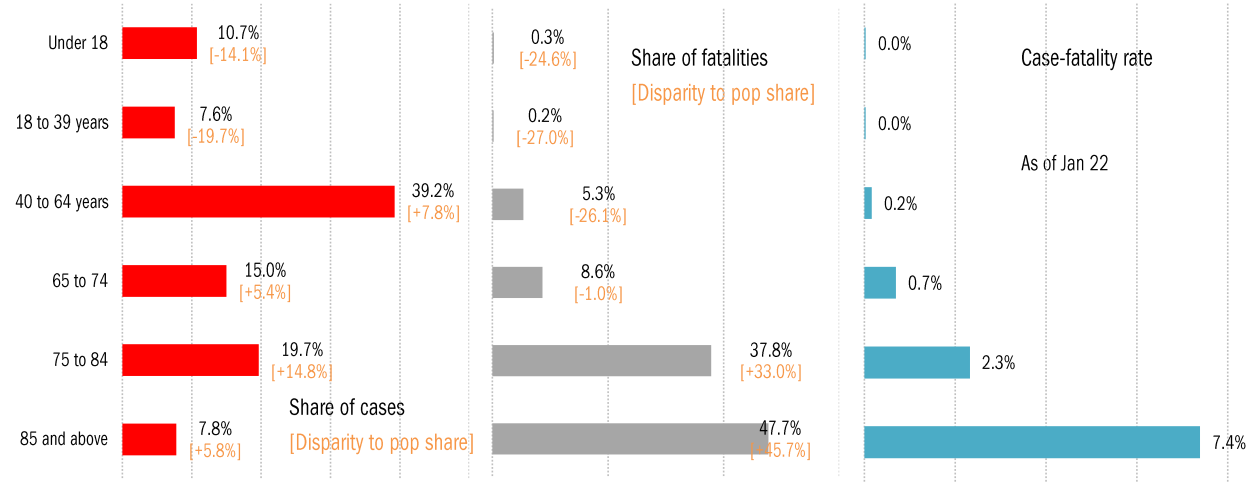
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

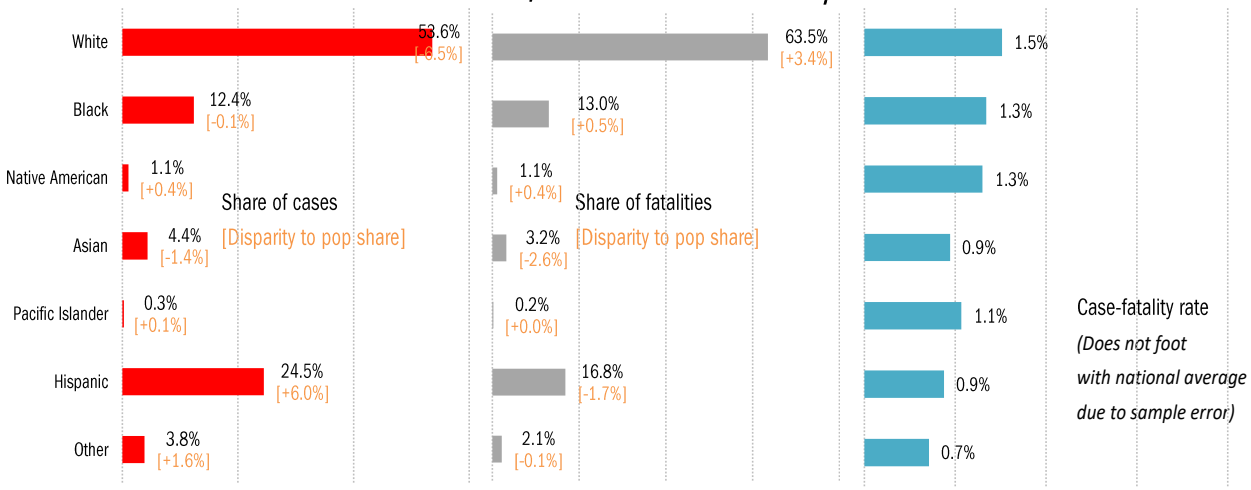
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



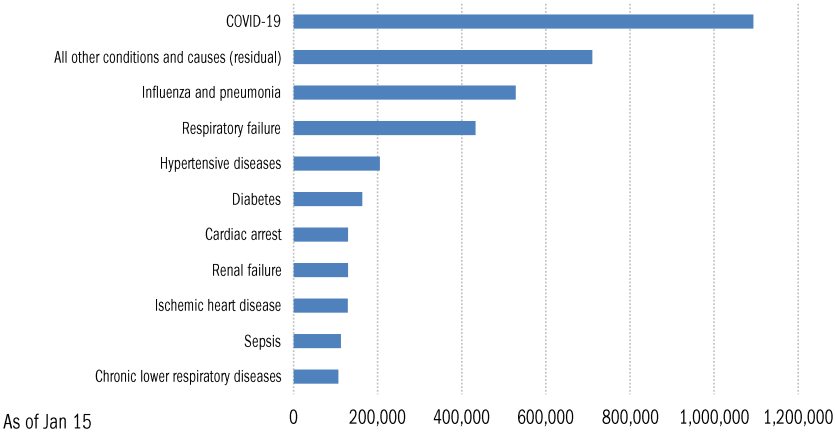
Racial distribution of US cases, fatalities and case-fatality rates

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

China downplays the severity of its COVID-19 surge
Michael Martin
NPR All Things Considered
January 22, 2023

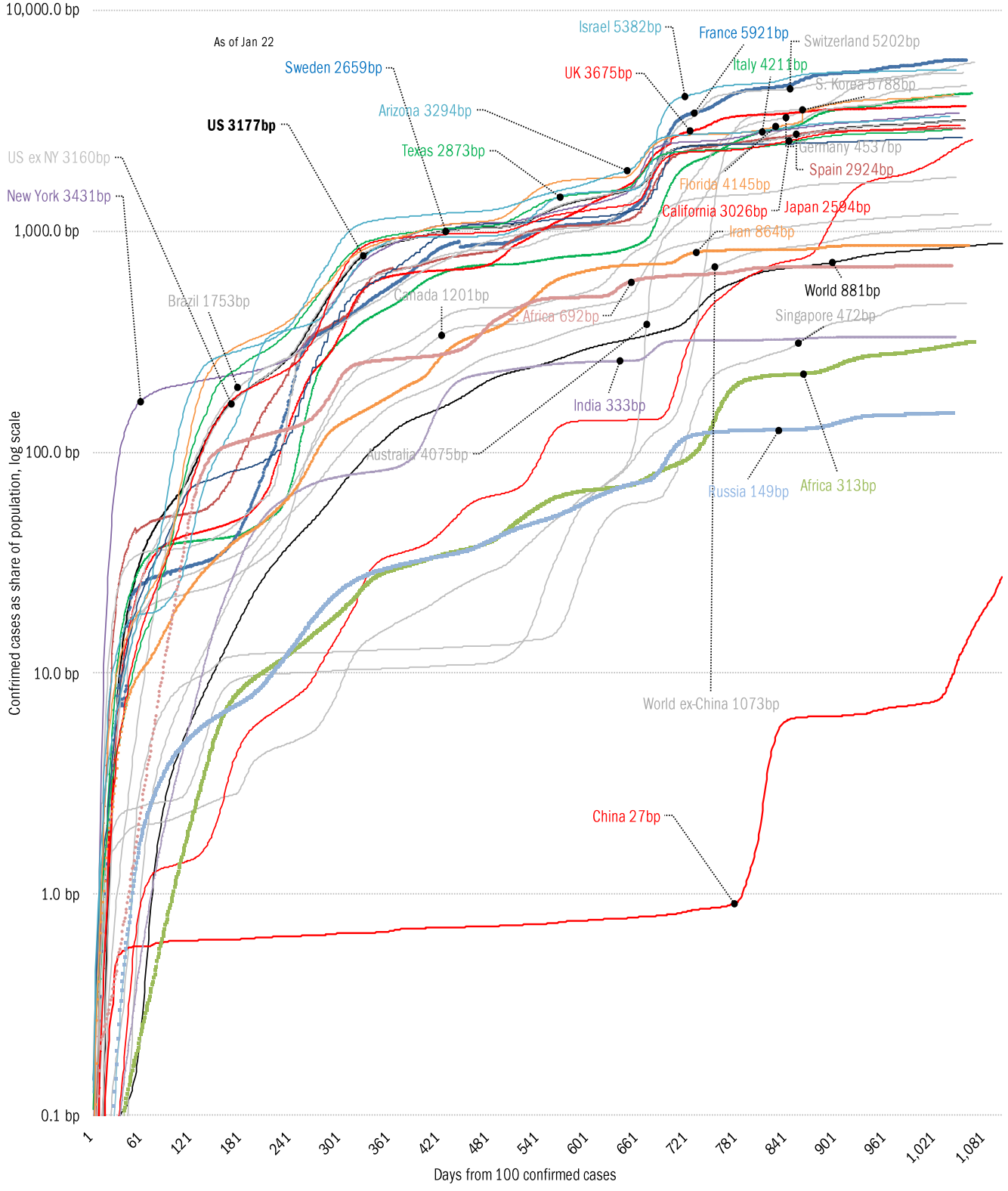
'80% of China is Infected With COVID-19' Health Official Reports
John Parkinson
ContagionLive
January 22, 2023

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

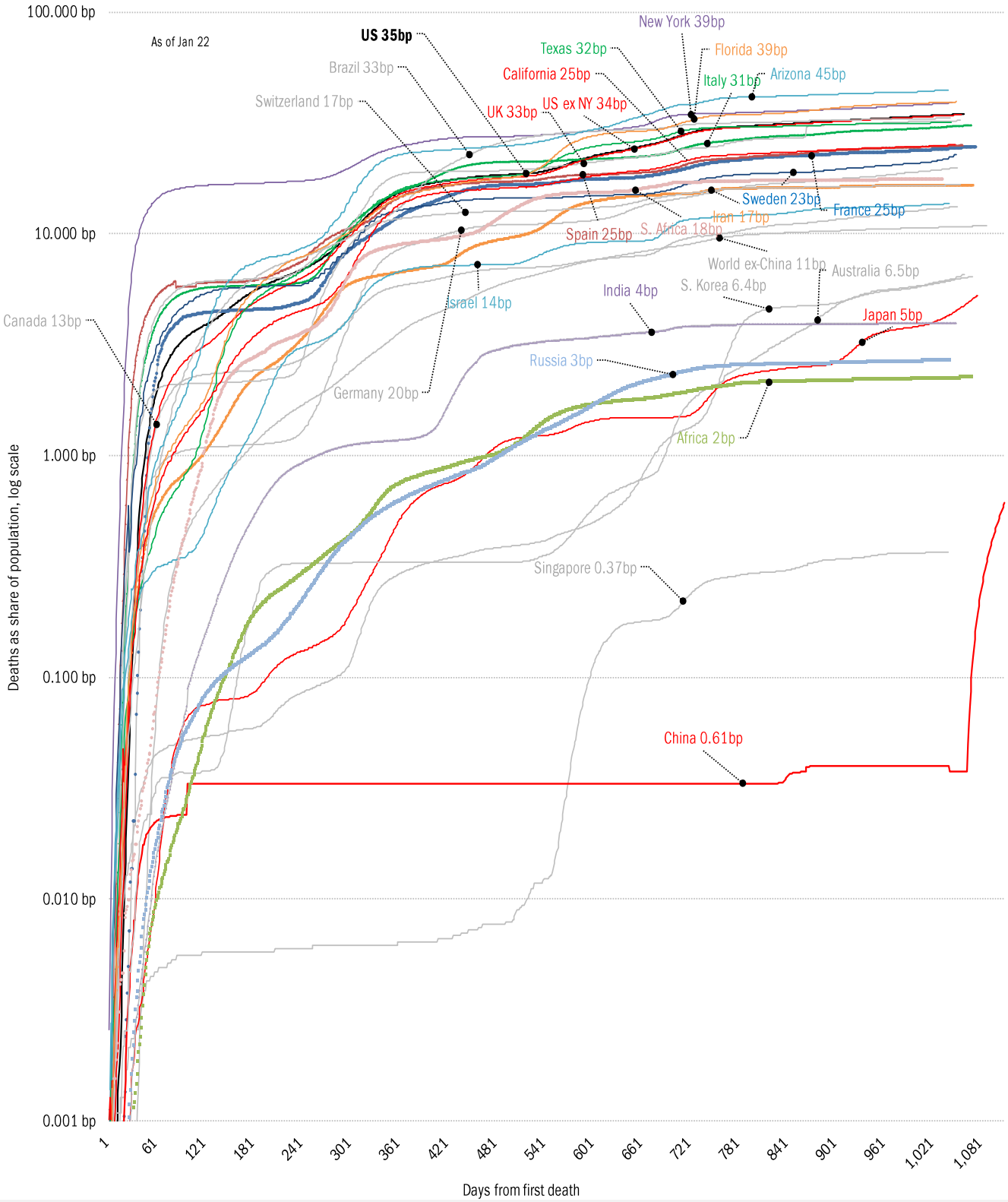
Share of infected population from first day with 100 confirmed cases, log scale



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

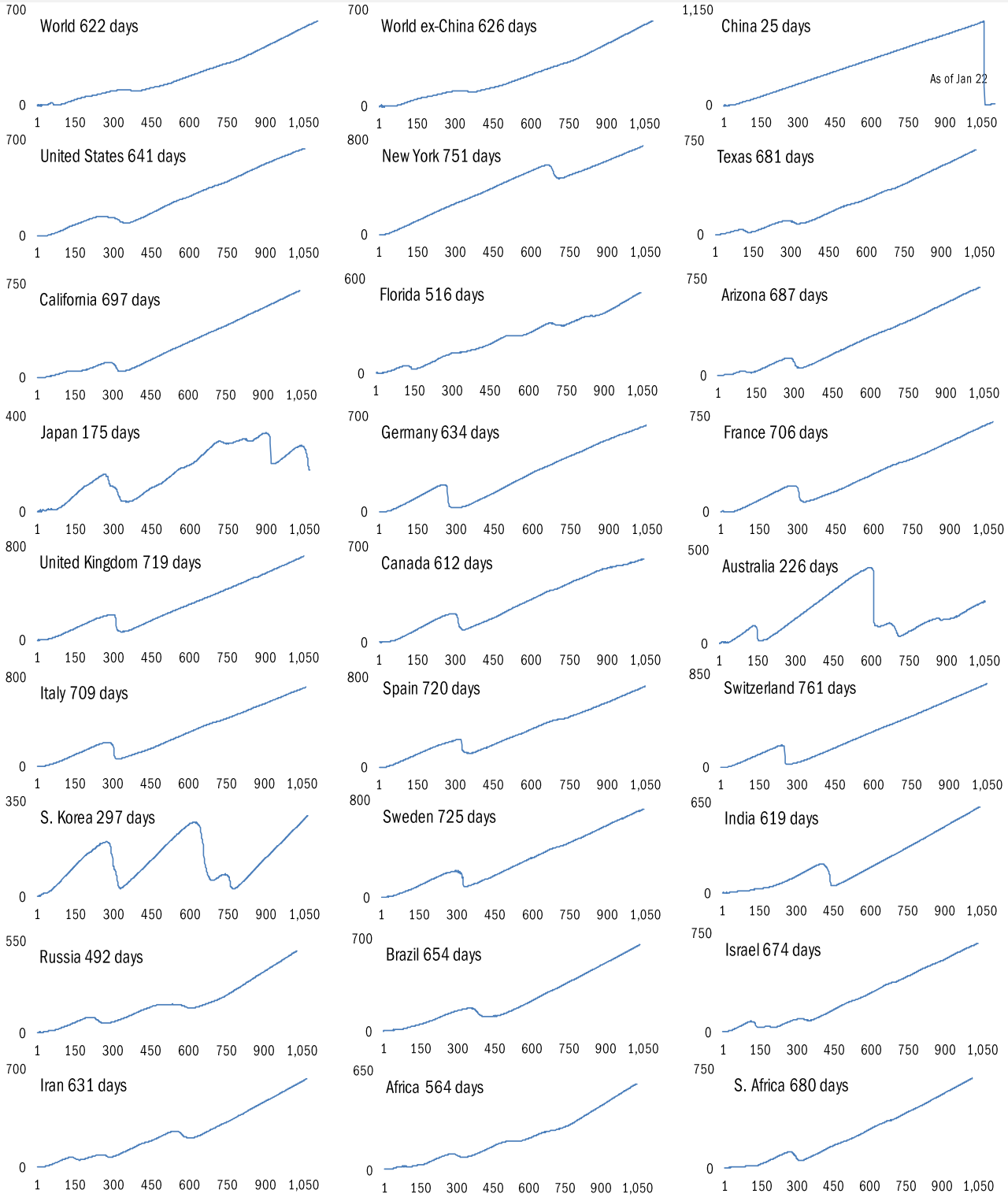


Source: Johns Hopkins, TrendMacro calculations

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

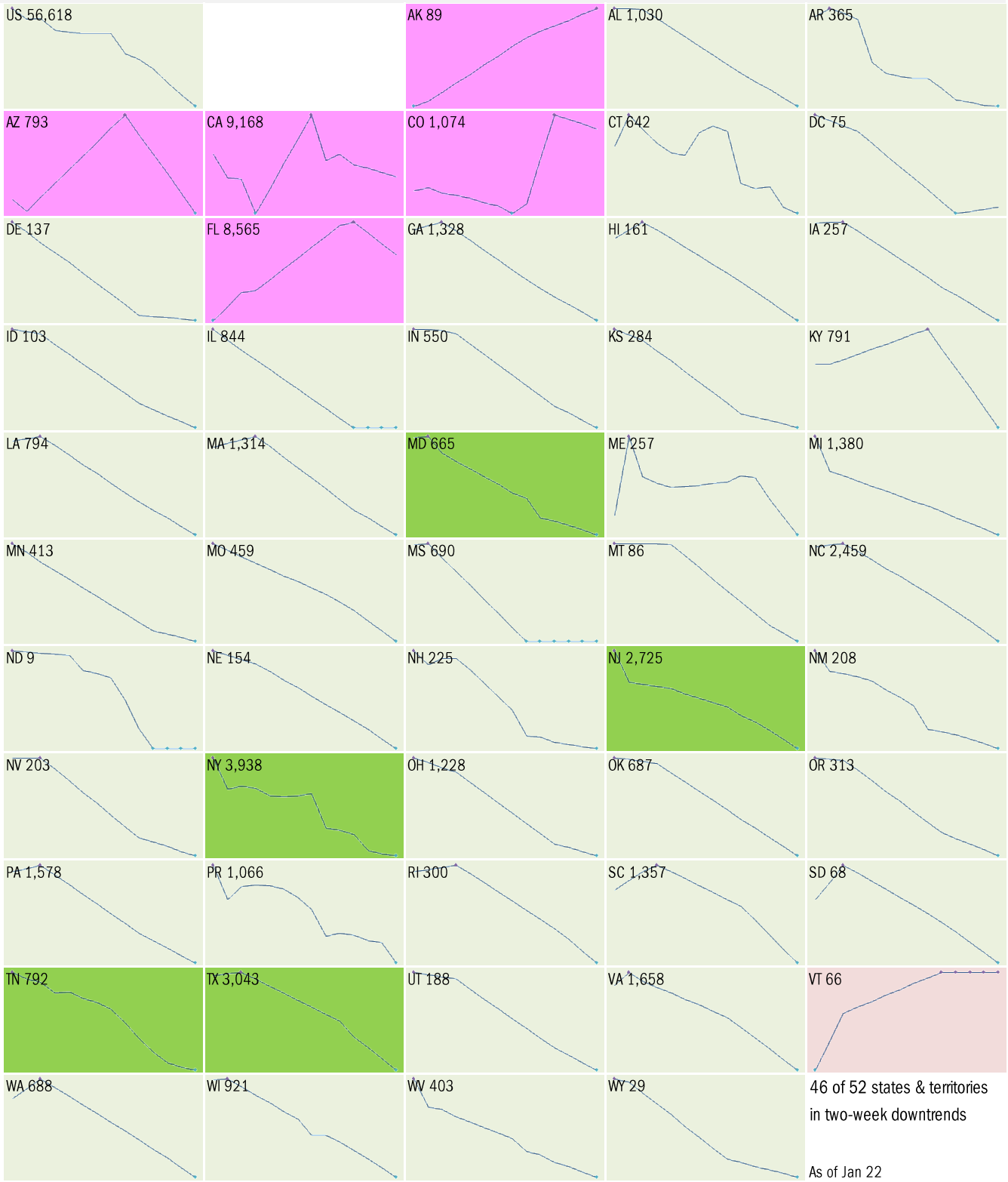


Source: Johns Hopkins, TrendMacro calculations

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

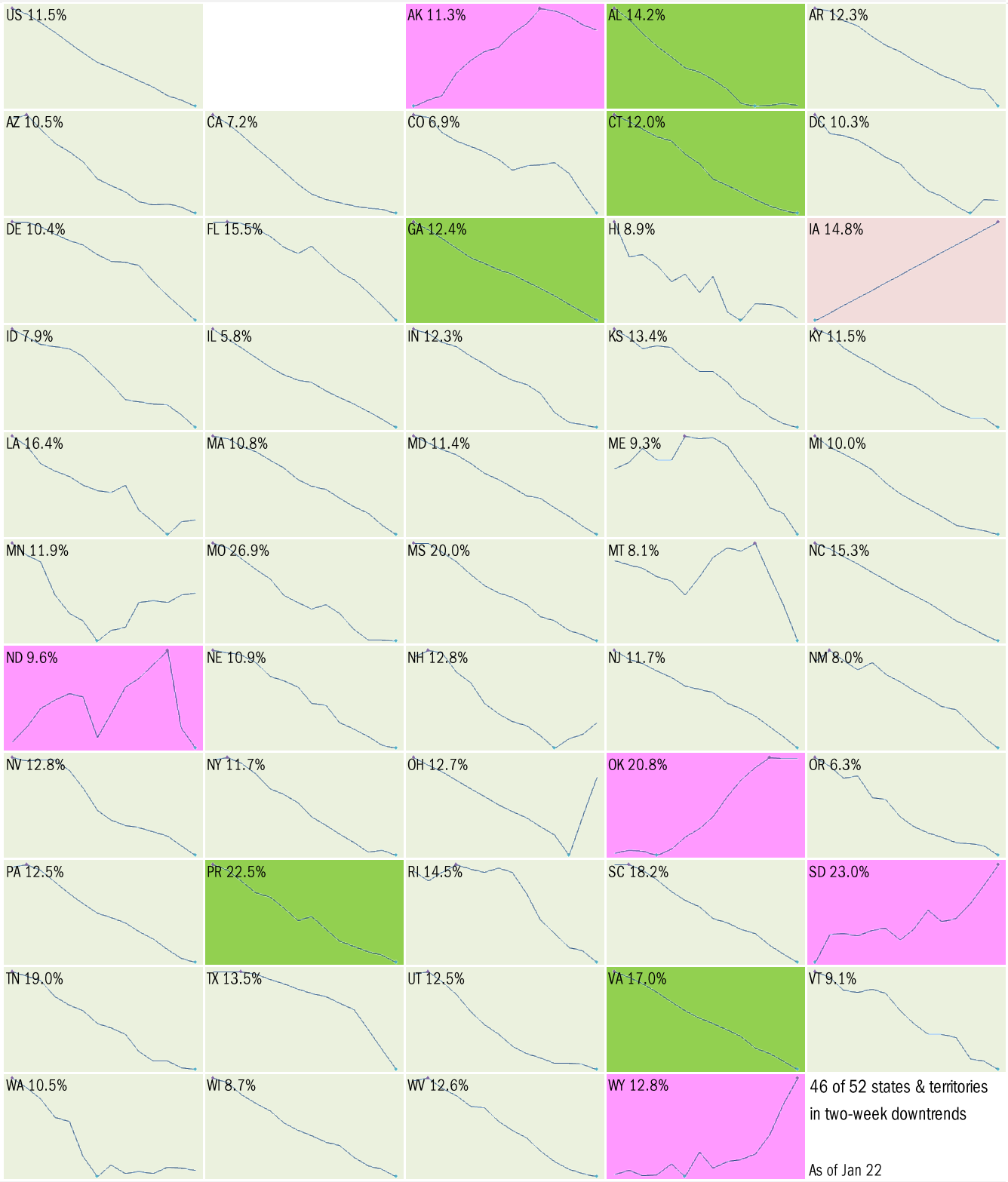


Source: Johns Hopkins, TrendMacro calculations

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

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

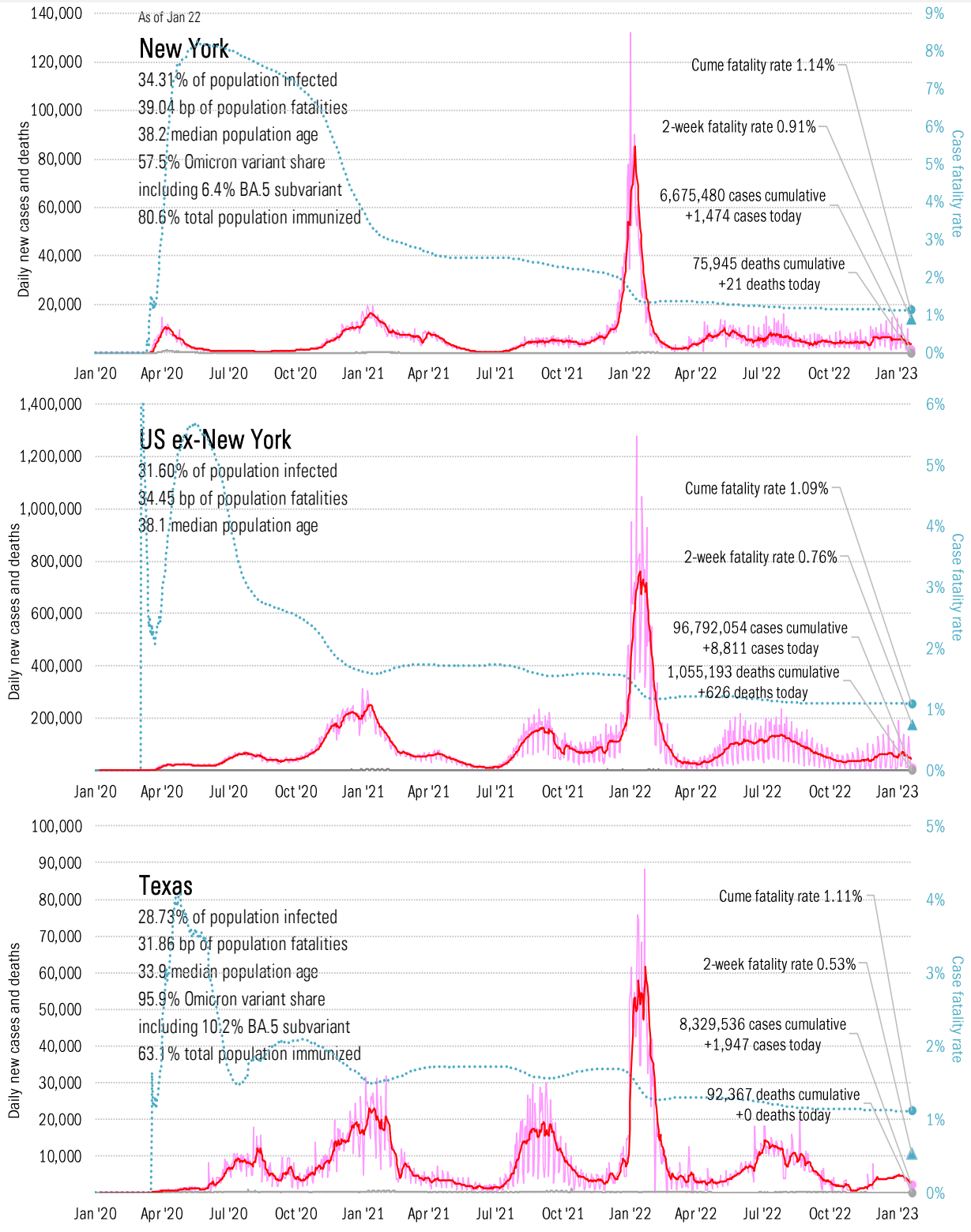
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

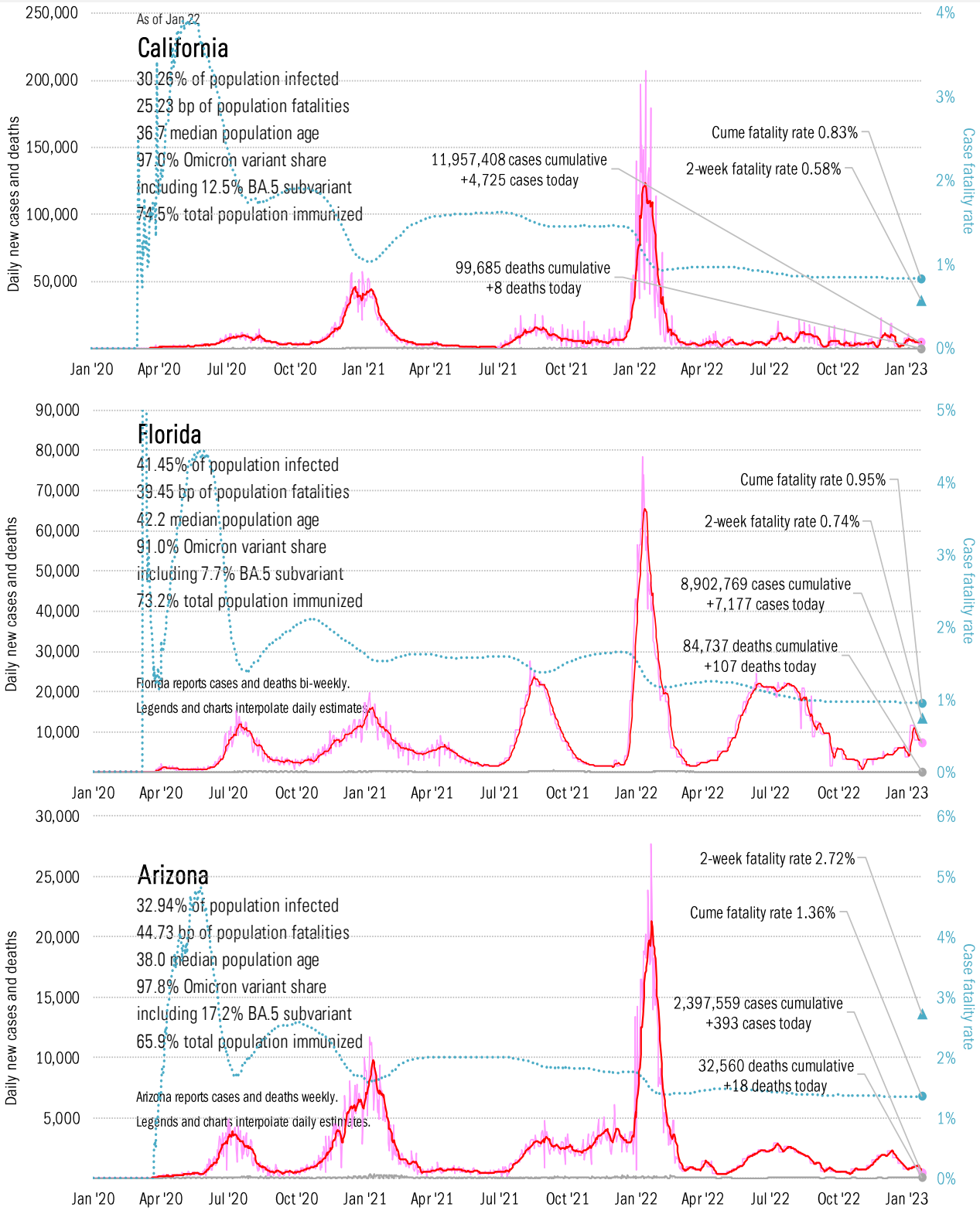
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

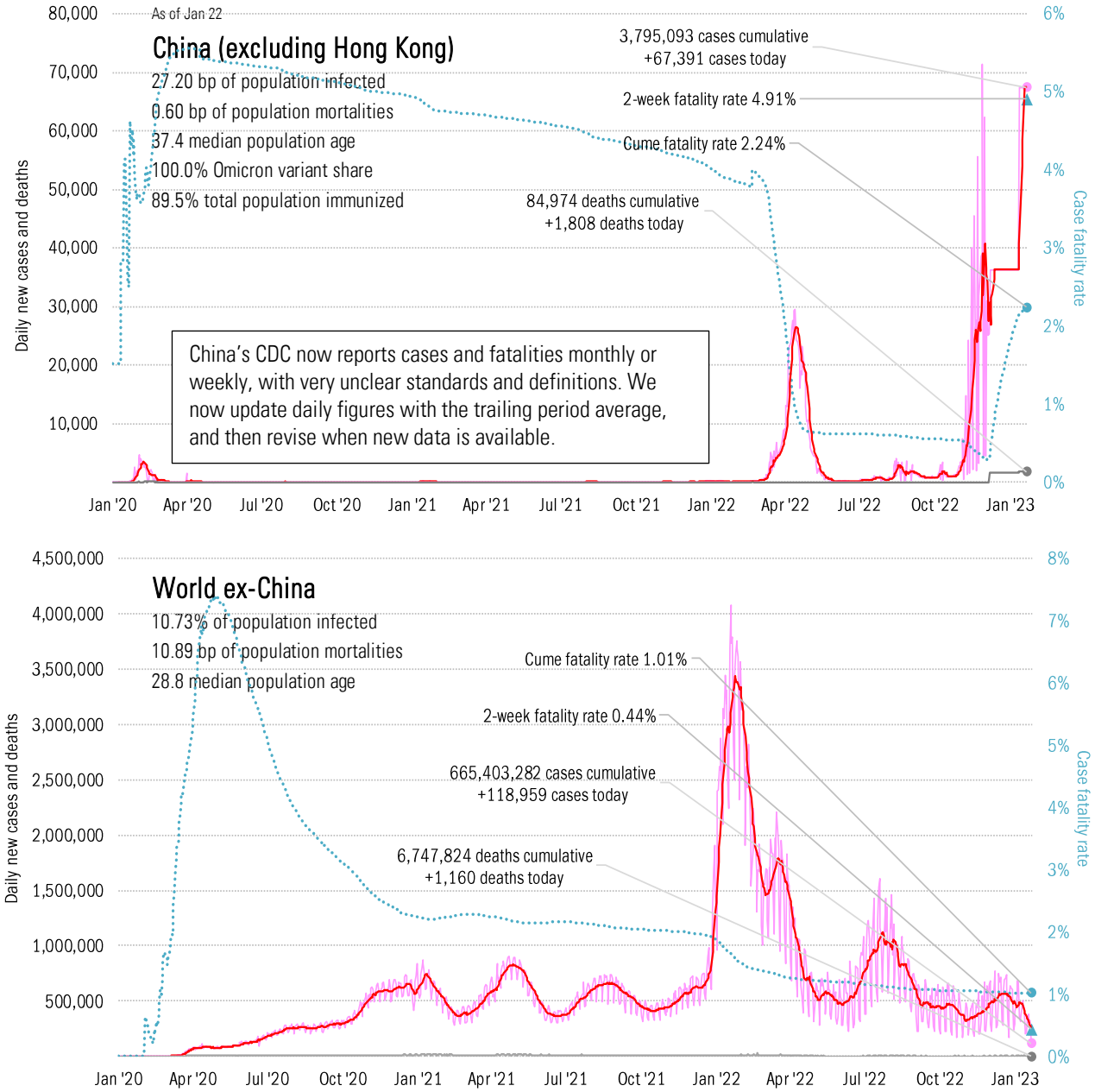
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

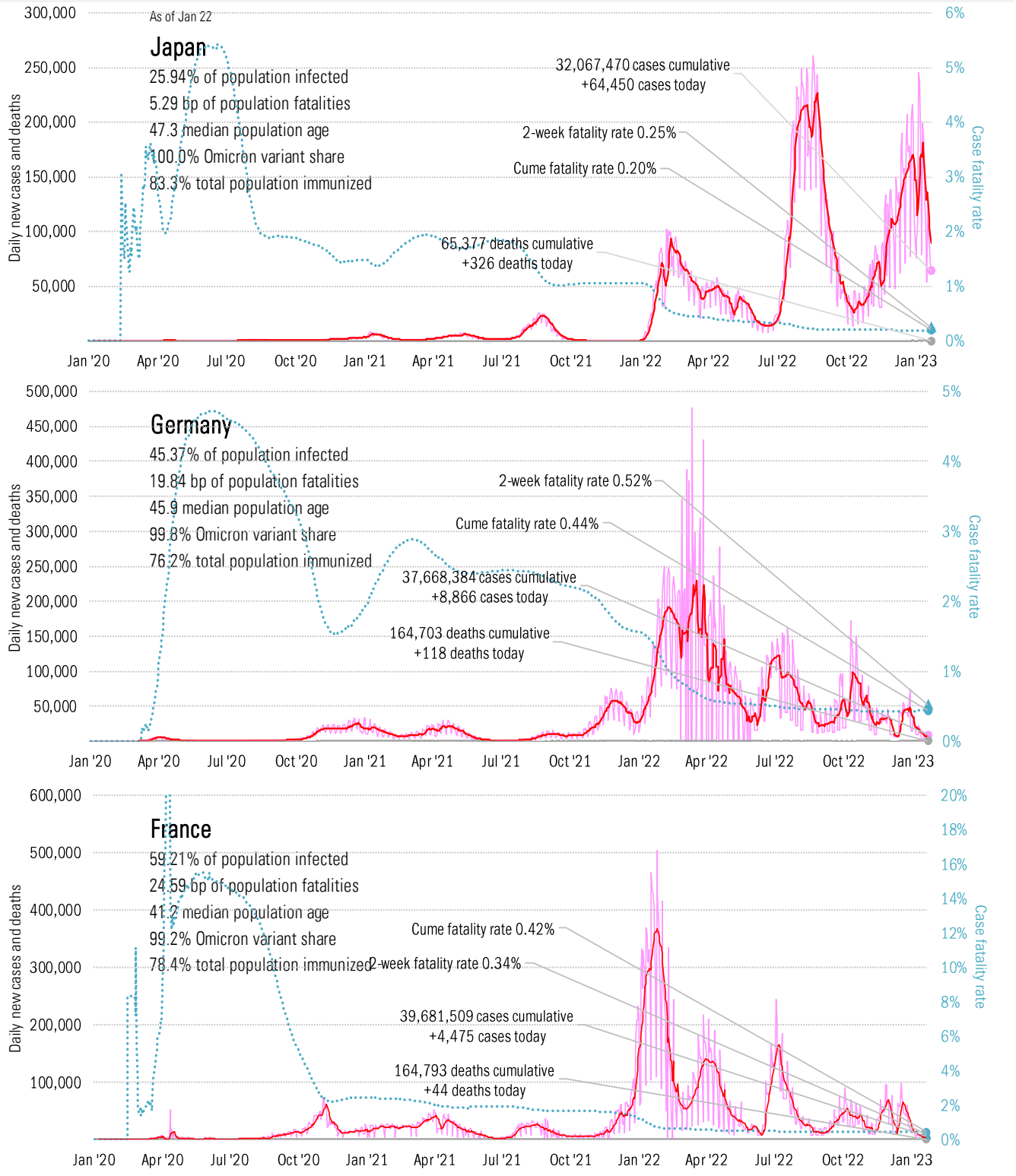
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, China CDC, TrendMacro calculations

Impact in the largest economies

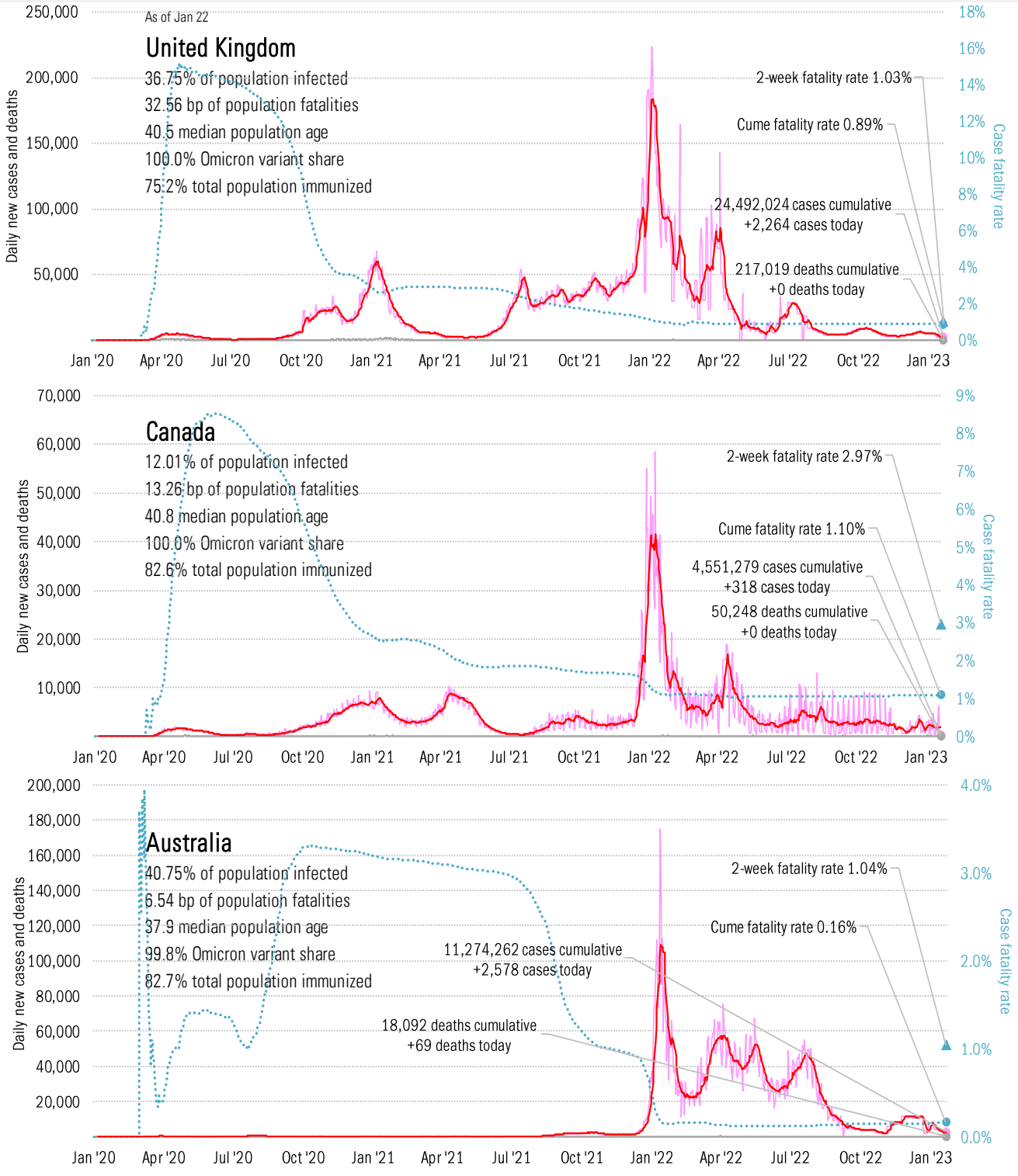
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

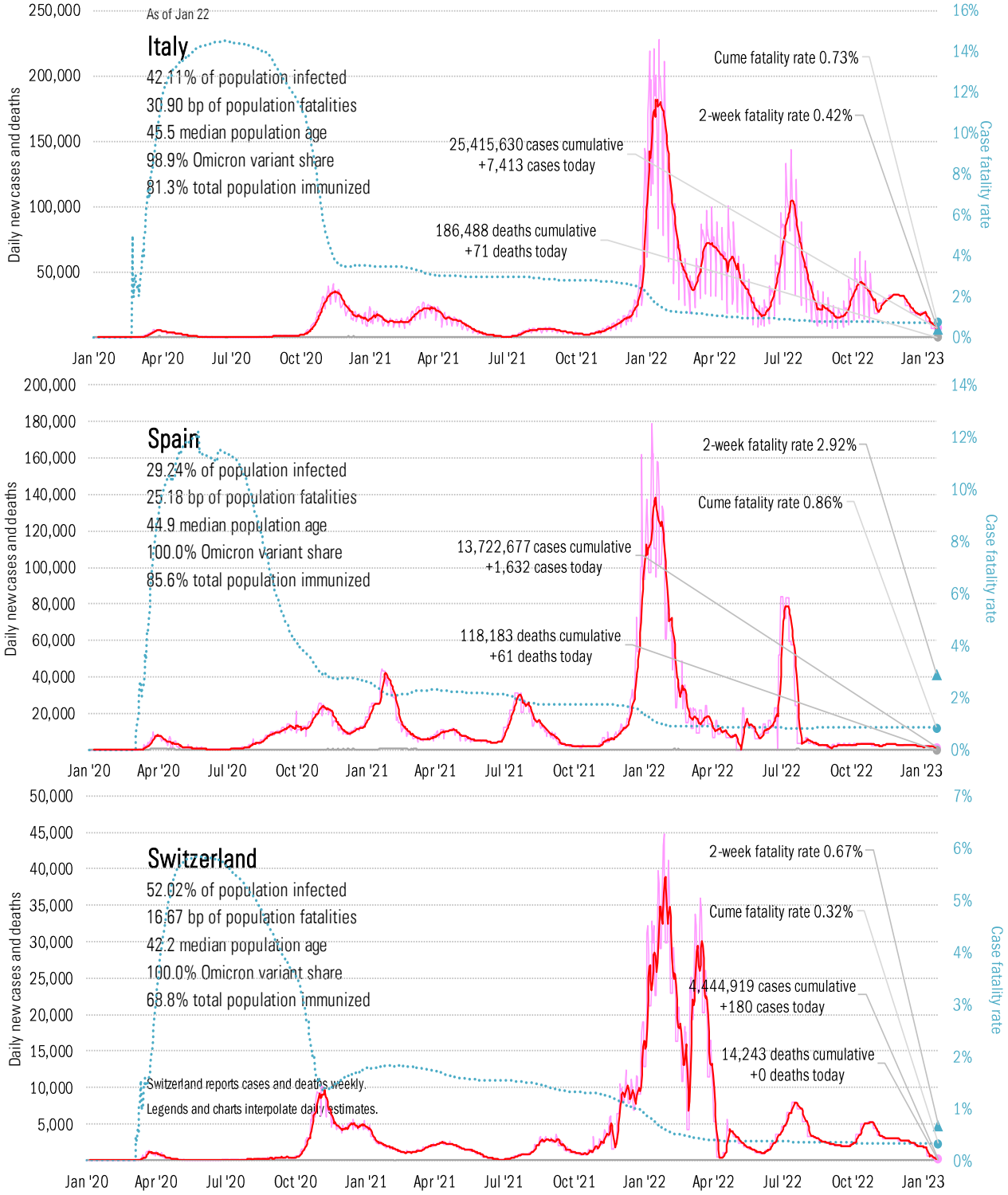
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

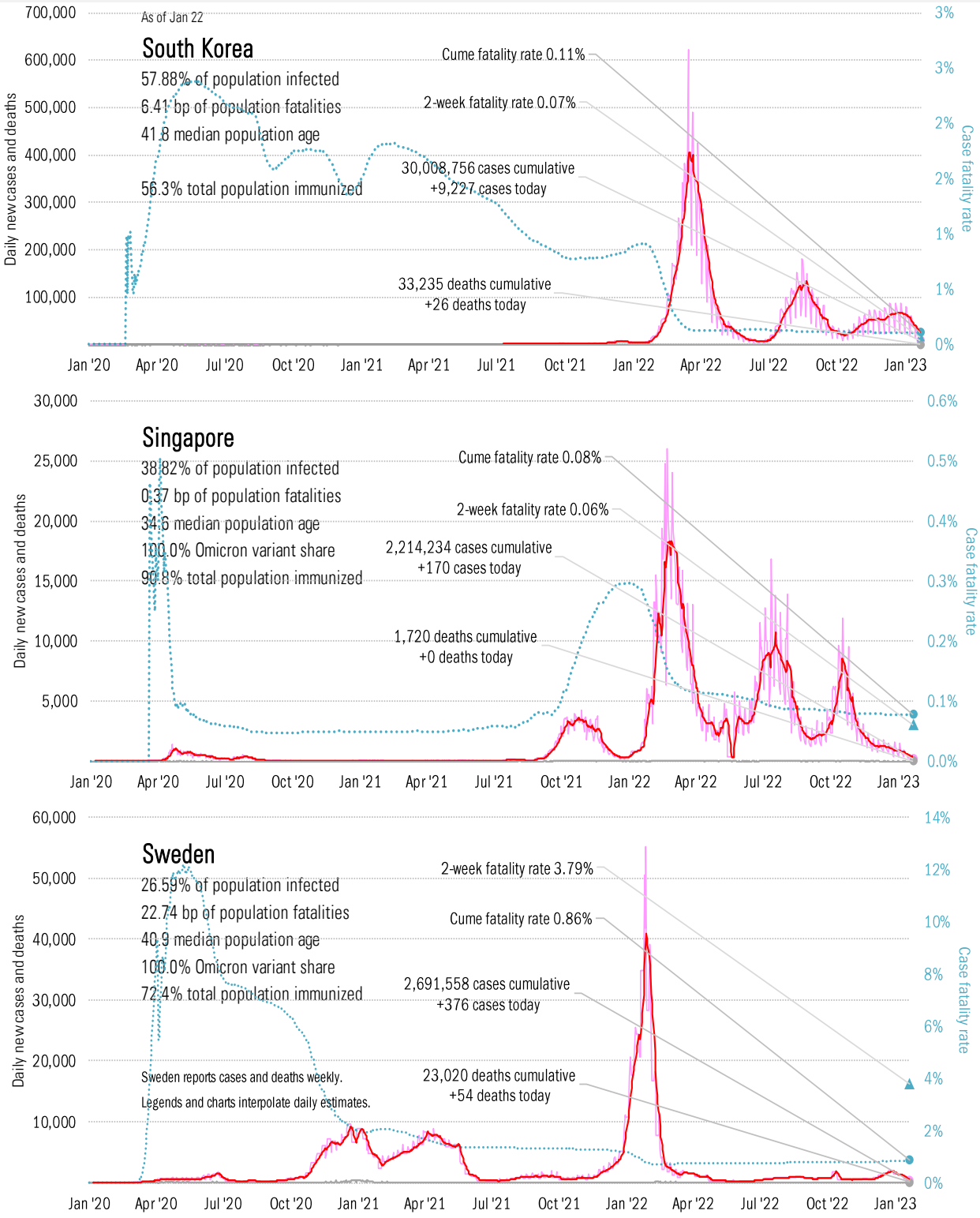
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

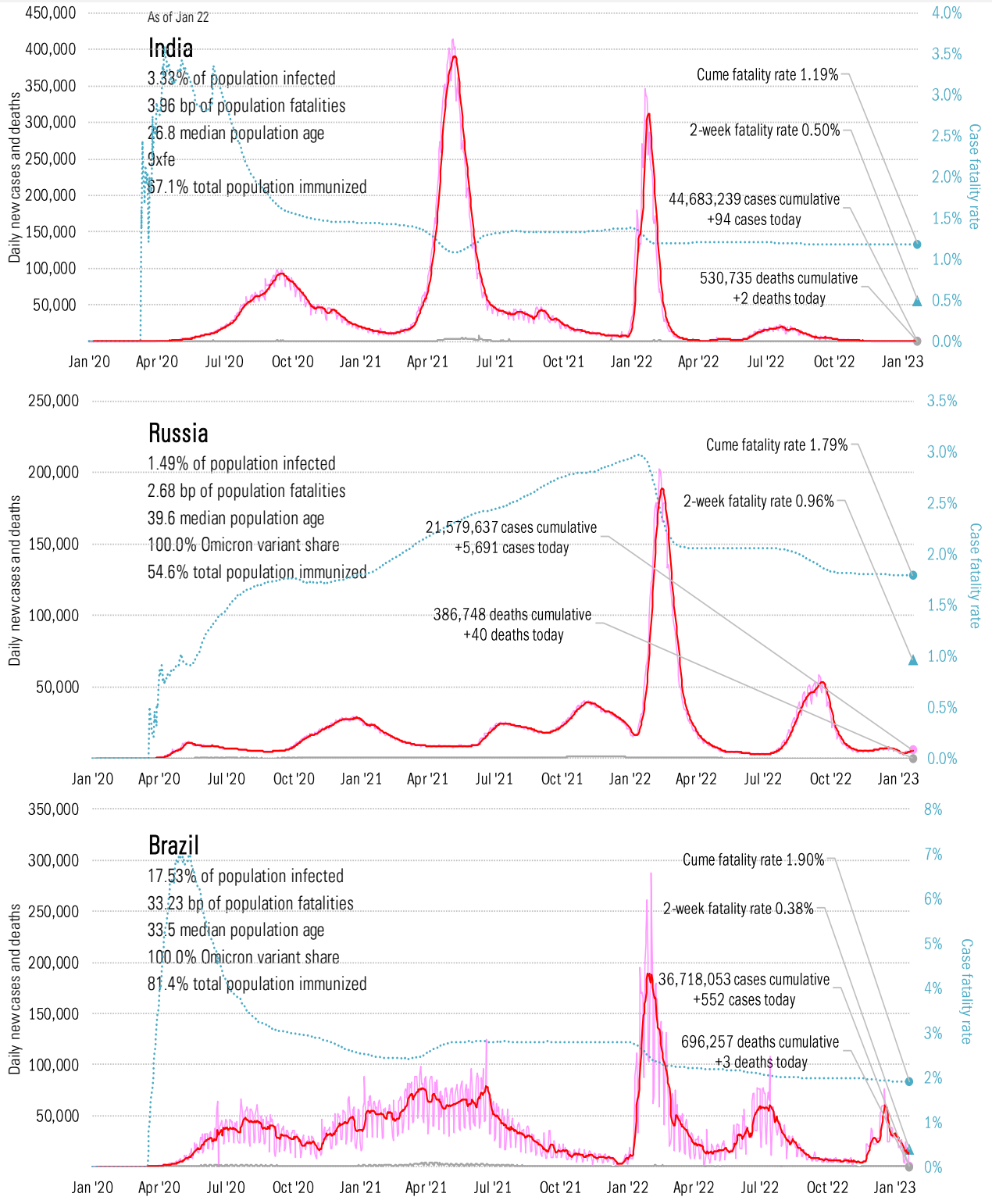
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

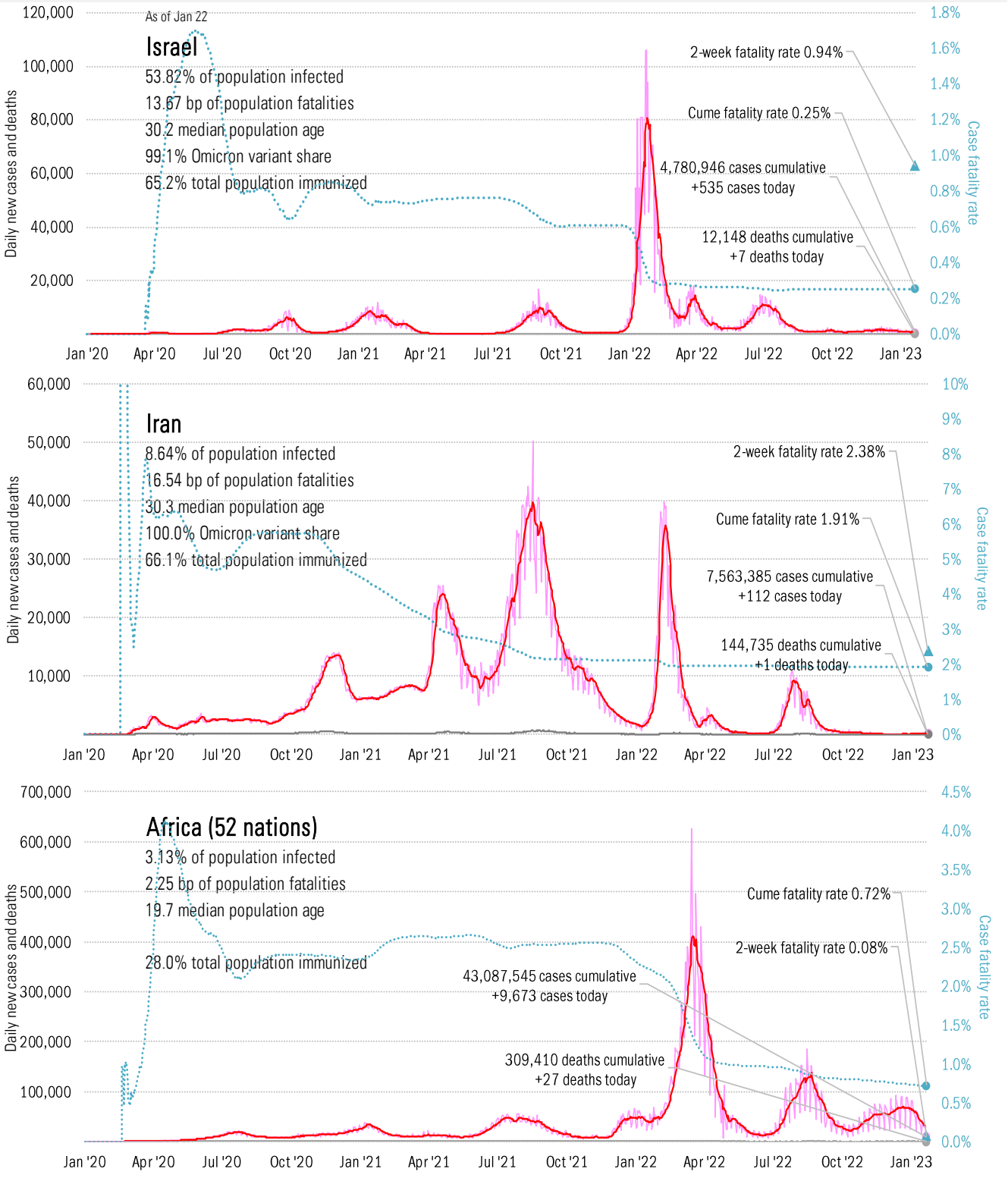
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

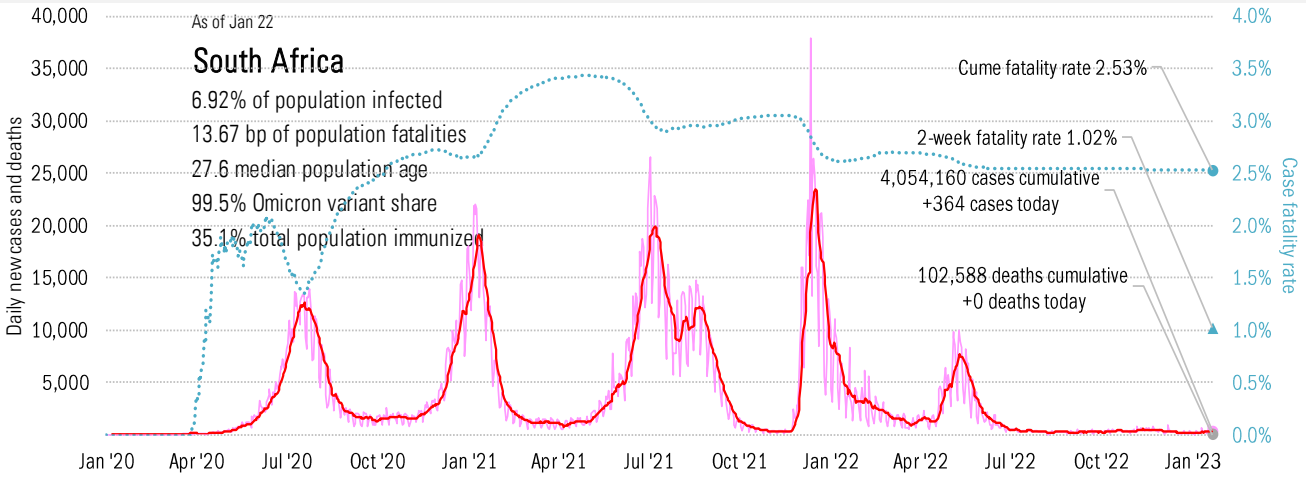
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations