Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

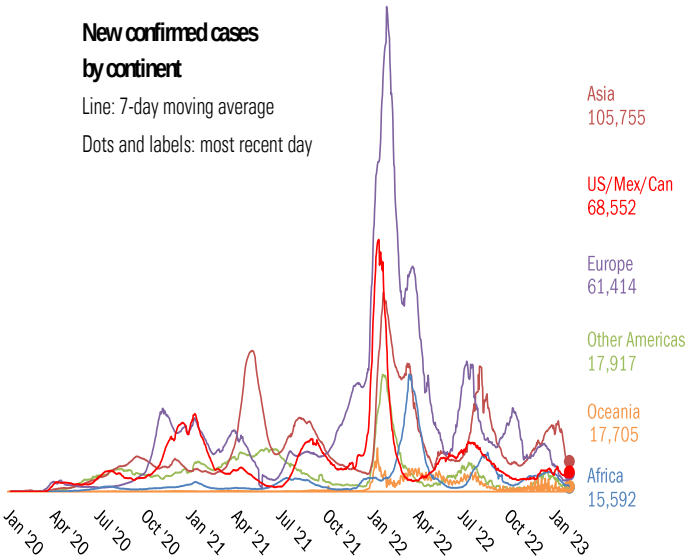
Friday, February 3, 2023

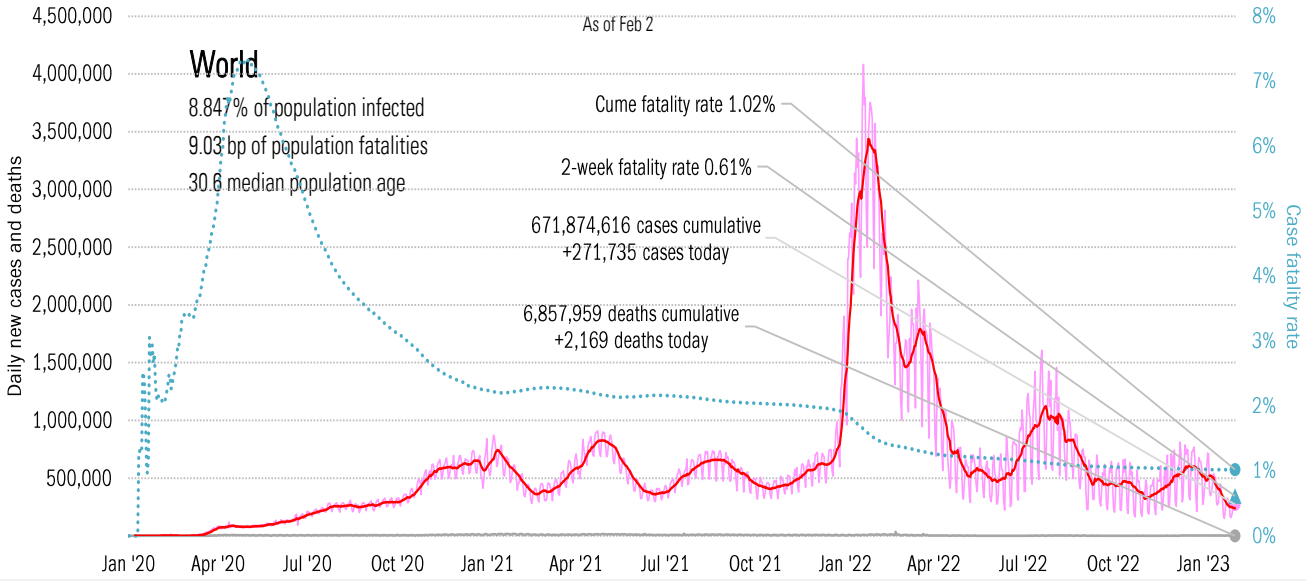
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries (see China note page 14)

New cases		New Deaths	
United States	48,761	China	909
Japan	45,299	United States	493
China	30,851	Japan	397
Taiwan*	27,049	Germany	151
Korea, South	14,961	Brazil	126
Germany	13,409	Finland	100
Brazil	13,363	Canada	99
Russia	9,228	Taiwan*	74
Italy	5,451	France	52
Austria	4,401	Italy	49





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

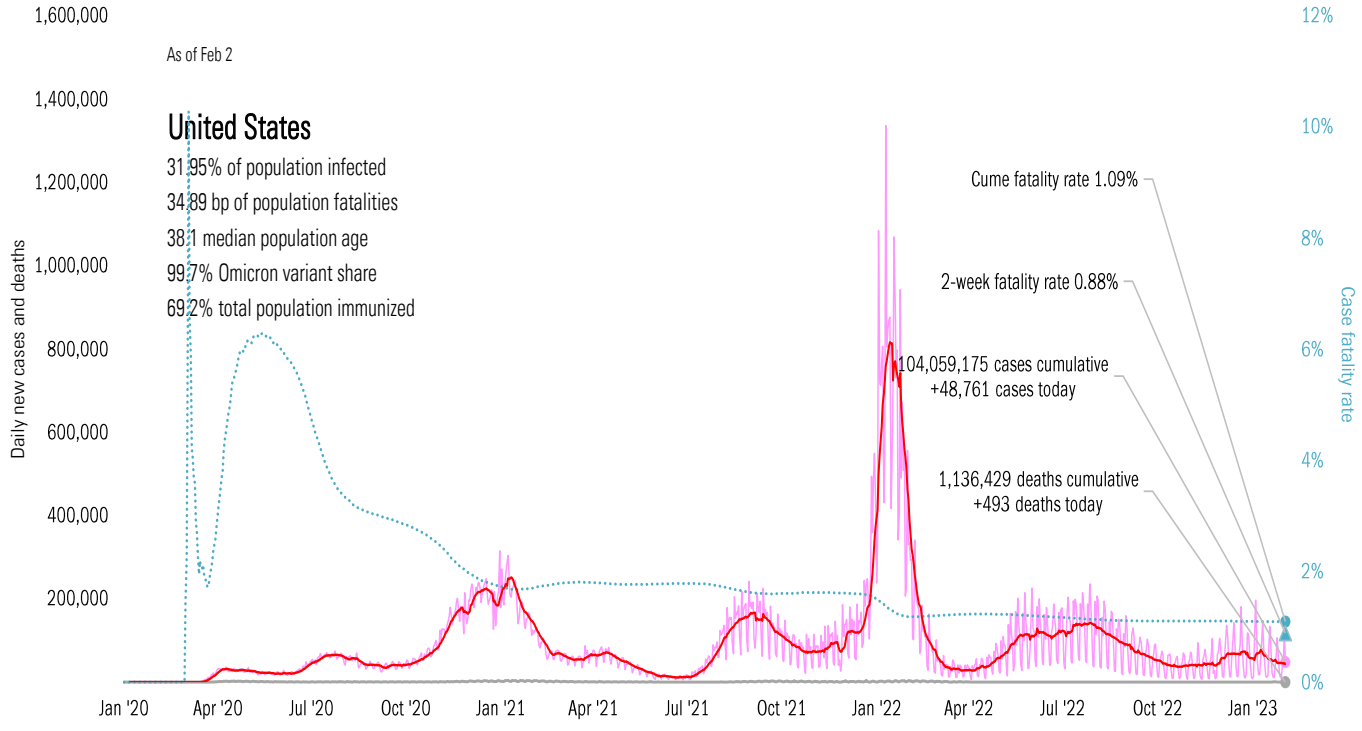
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	6,191	CA	192	MA	129	CA	12,005,616	CA	100,301	TX	582,544	RI	88%	RI	88%
CA	6,001	FL	63	OR	39	TX	8,373,501	TX	92,713	CA	558,486	MA	86%	TX	87%
TX	5,145	NY	37	CO	45	FL	7,465,016	FL	85,370	FL	527,174	DE	86%	AL	86%
NY	4,185	MI	35	NH	19	NY	6,721,124	NY	76,514	NY	348,775	WA	85%	NC	83%
NJ	1,988	MA	25	KY	59	IL	4,029,905	PA	49,791	OH	241,283	MD	84%	DC	83%
NC	1,892	SC	24	WV	37	PA	3,479,345	GA	42,054	GA	239,737	MN	84%	MA	82%
LA	1,462	PA	23	AL	58	NC	3,425,789	MI	41,690	PA	227,017	DC	83%	AK	82%
IL	1,448	GA	20	AZ	60	OH	3,356,027	OH	41,464	IL	210,119	MO	83%	NH	81%
SC	1,411	NE	19	MT	15	GA	3,035,874	IL	41,180	MI	178,793	NH	83%	NM	81%
VA	1,393	OH	16	DE	18	MI	3,030,505	NJ	35,814	NJ	160,226	AZ	82%	GA	81%
	31,117		454		479		54,922,702		606,891		3,274,154				
All states	48,761		493		3,804	All states	104,059,175		1,136,429		5,934,751	All states	70%		67%
Top ten	64%		92%		13%	Top ten	54%		55%		55%	Median	77%		76%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
TX	-4,641	TX	-54	TX	-84
FL	-987	NJ	-4	IL	-75
MO	-215	AR	-3	NC	-75
CT	-213	NH	-3	GA	-60
KY	-211	ID	-2	MN	-29



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

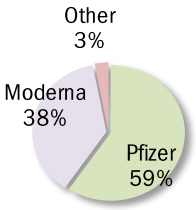
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	685,516,741				+0.147 million
				Of which boosters:	+0.115 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	277,346,324	83%	236,447,801	71%	+0.017 million
Age 12 to 17	18,446,236	73%	15,790,380	62%	+0.001 million
Age 18 to 64	184,412,810	91%	156,755,065	77%	+0.009 million
Age 65 and over	61,023,896	100%	53,463,192	98%	+0.003 million

Immunity	Full	Partial
US	69.1%	81.0%
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%	85.0%
Israel	65.2%	71.1%
Canada	82.6%	90.4%
Japan	83.3%	84.4%
Africa	28.2%	34.2%
India	67.1%	72.5%
Brazil	81.5%	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

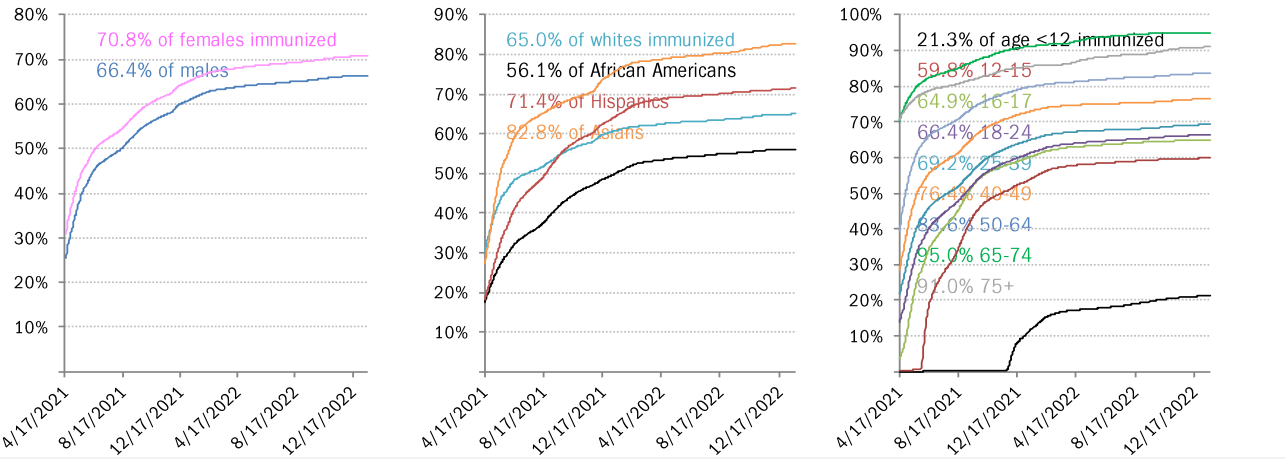
Best
Middle
Worst

As of Jan 27

					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%	69.3%	78.7%	79.0%	69.4%		94.3%	95.0%	88.0%
75.9%	56.4%	59.1%	58.6%	72.0%	71.1%	62.3%		80.7%	85.5%	71.8%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.5%	77.5%	60.8%	83.7%	70.6%	64.3%	65.7%	90.4%	94.5%	95.0%	
72.3%	63.6%	53.0%	66.2%	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%	68.8%	67.4%	90.9%	91.6%	95.0%	95.0%
74.6%	66.6%	73.4%	66.2%	59.0%	59.6%	59.6%	76.5%	79.6%	82.9%	87.6%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	77.4%	94.2%	76.1%	69.8%	64.4%	92.0%	70.9%	95.0%	88.1%	
	65.9%	75.1%	65.2%	56.8%	56.2%	67.0%	59.8%	90.2%	73.2%	
			OK	LA	MS	AL	GA			
			74.5%	62.7%	61.6%	64.9%	68.3%			
			60.4%	55.0%	53.6%	53.1%	57.2%			
HI			TX					FL		PR
91.3%			76.3%					82.4%		90.8%
81.4%			63.2%					69.3%		83.9%

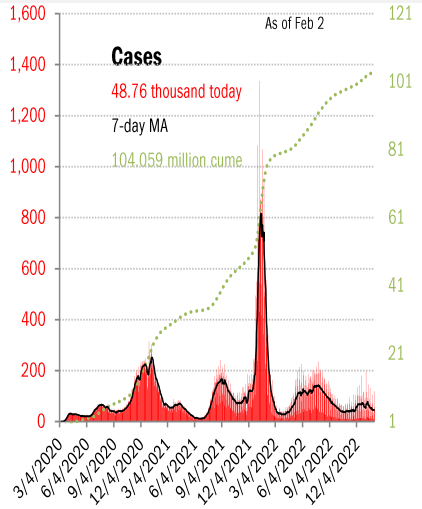
AK
72.9%
65.1%

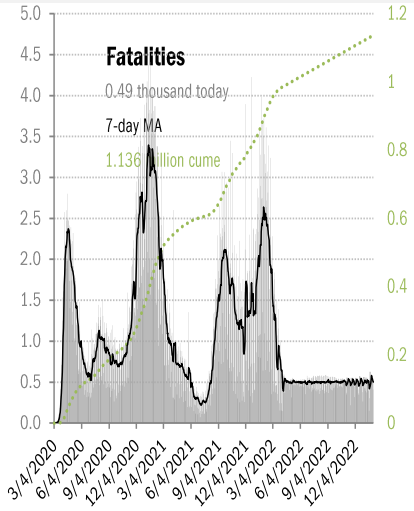
The demographics of US vaccination

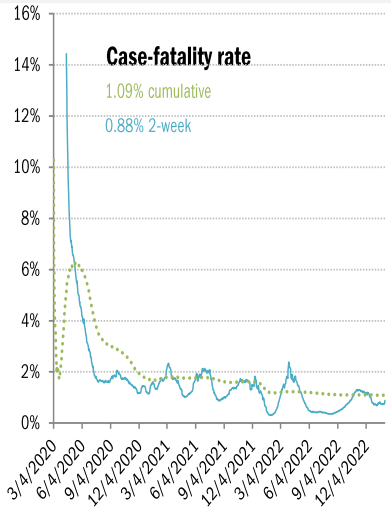


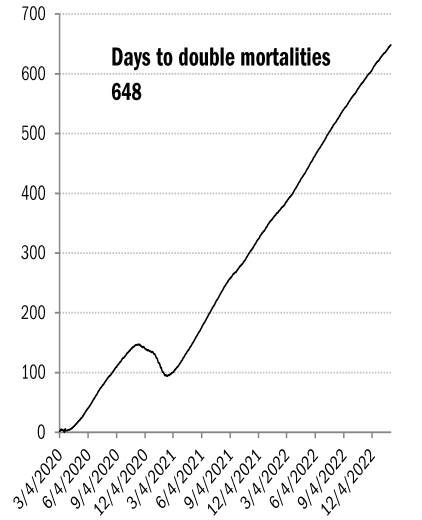
Source: CDC, CDC, Our World in Data, TrendMacro calculations

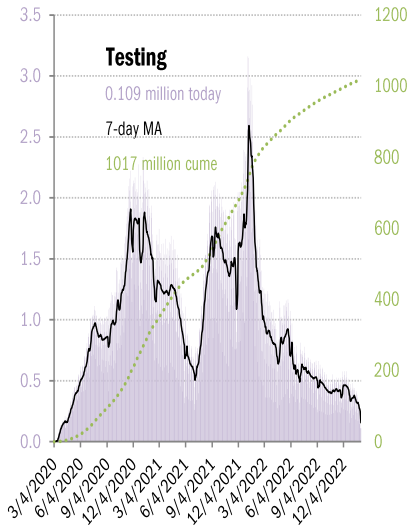
US deep-dive

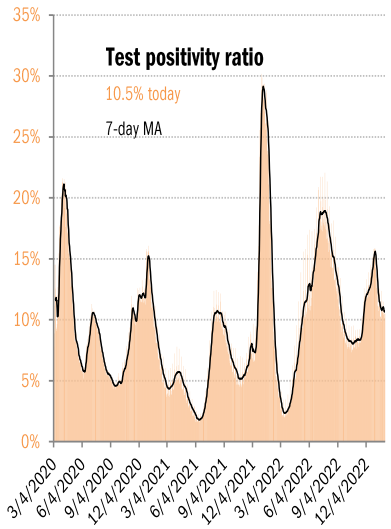


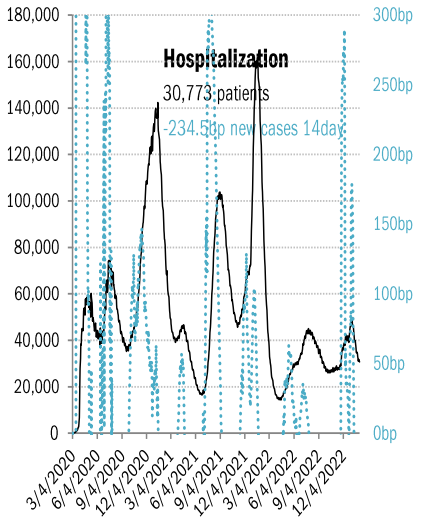


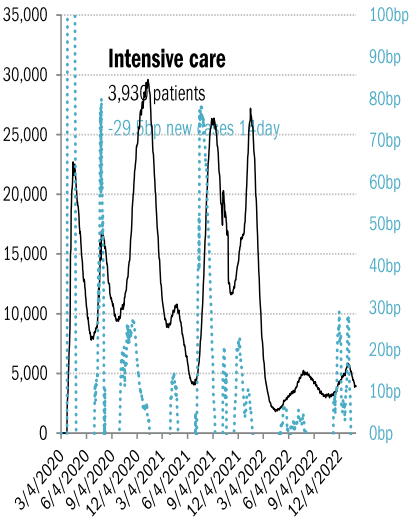


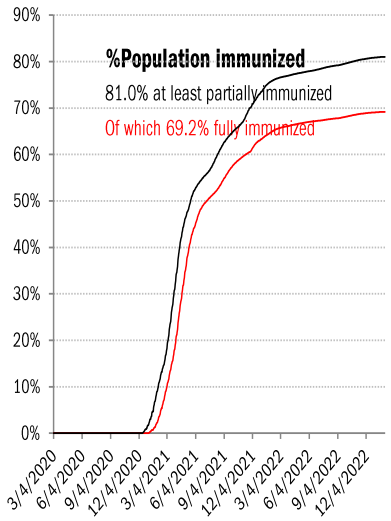












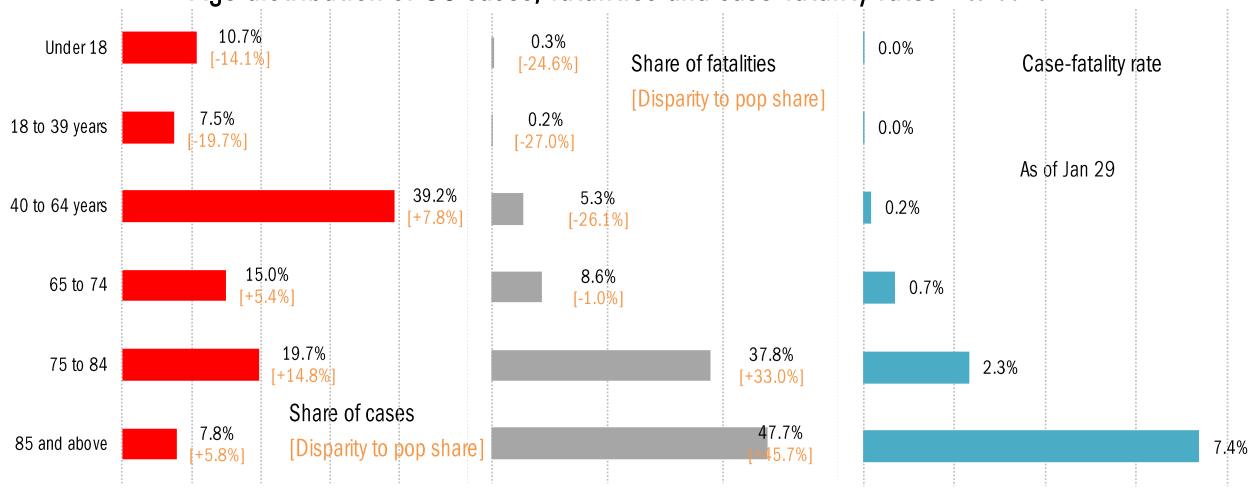
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

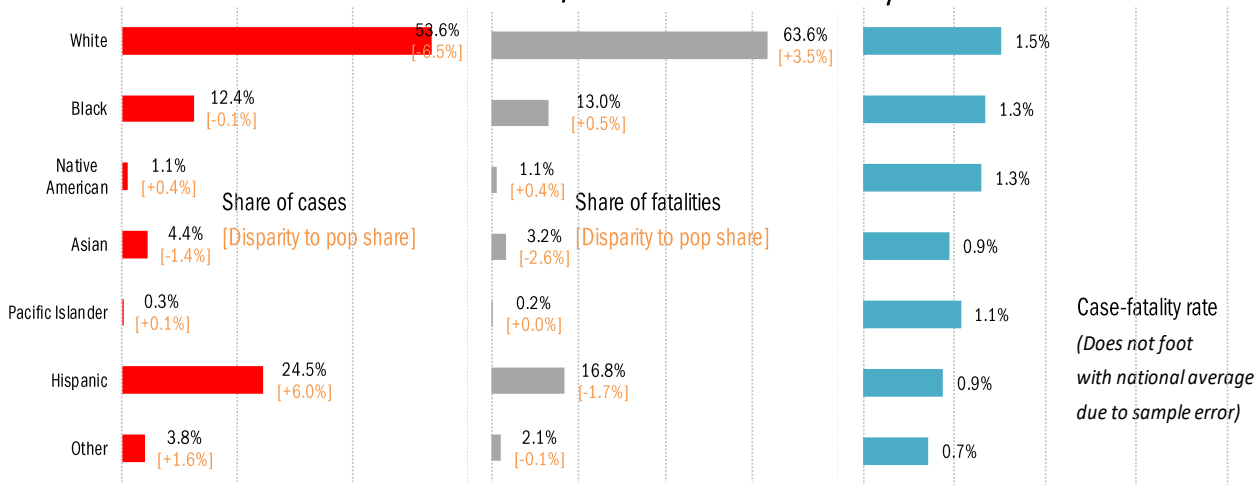
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



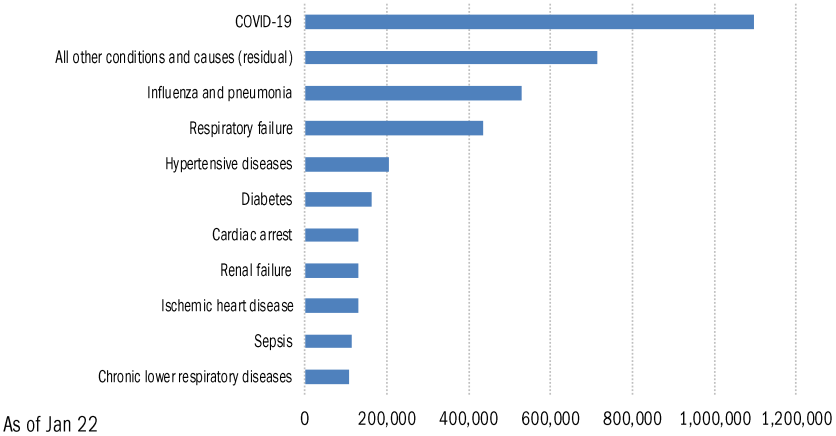
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jan 22

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

Incidence of Chronic Spontaneous Urticaria Following Receipt of the COVID-19 Vaccine Booster in Switzerland

Olivier Duperrex et al.

Jama Network

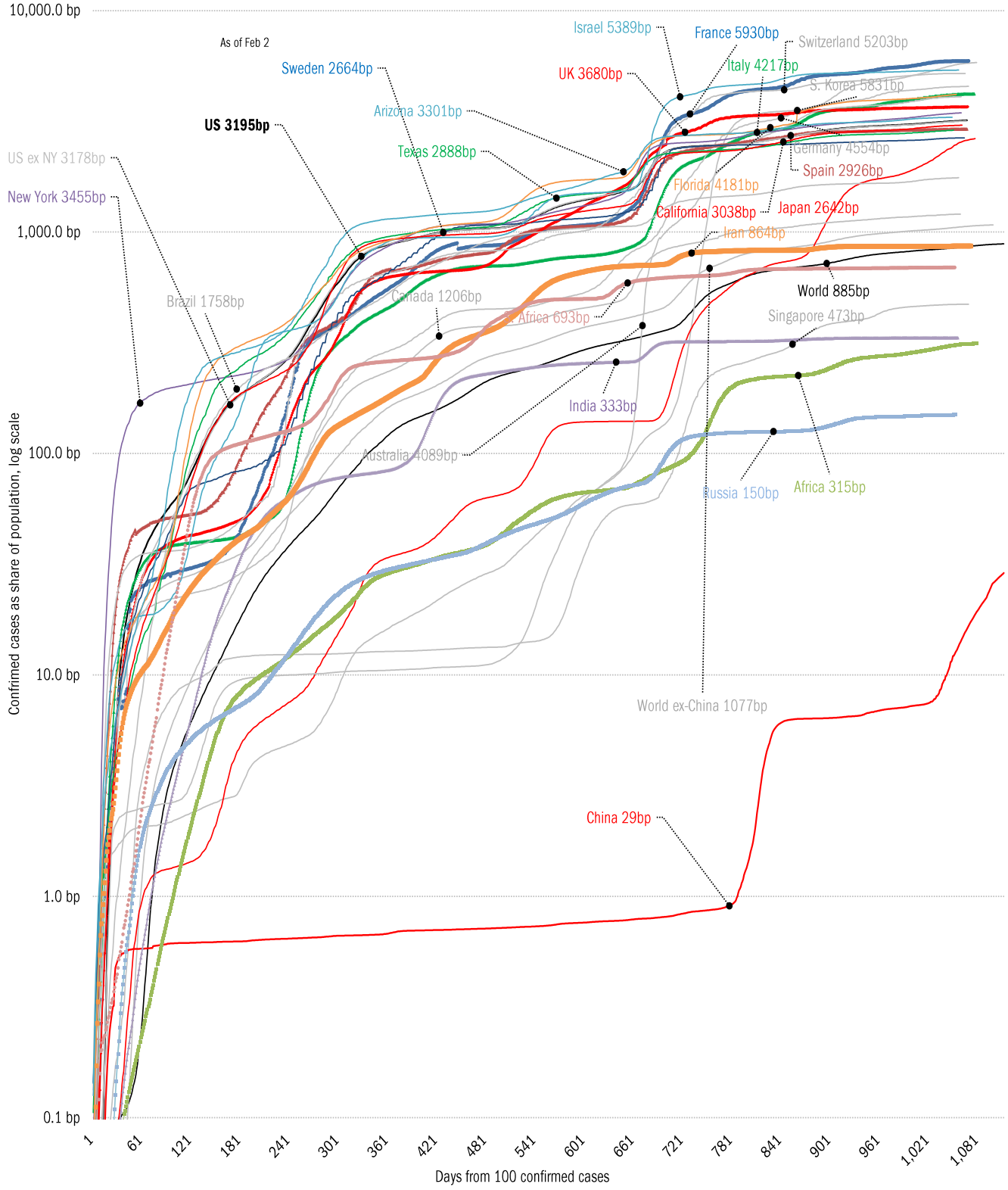
February 1, 2023

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

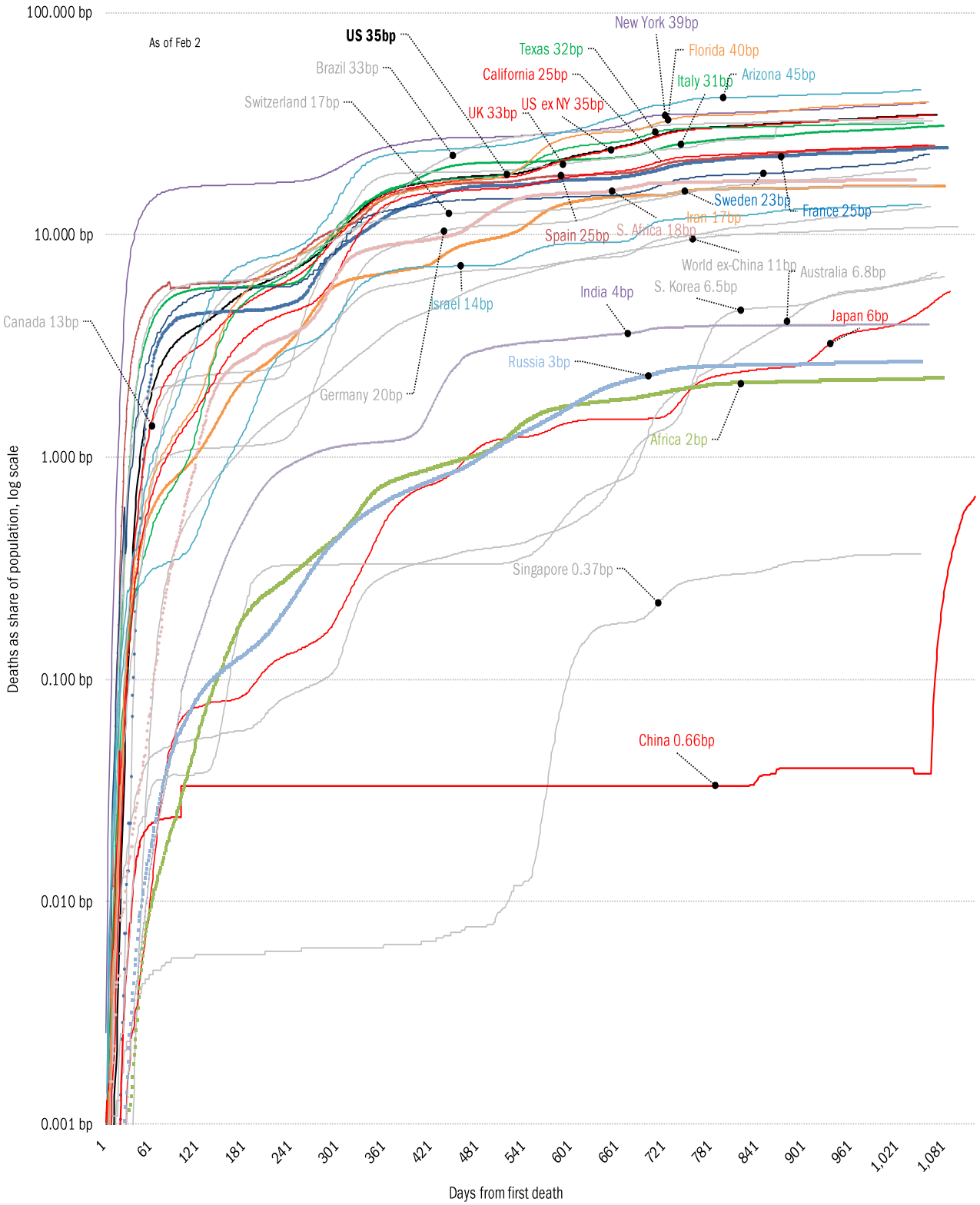
Share of infected population from first day with 100 confirmed cases, log scale



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

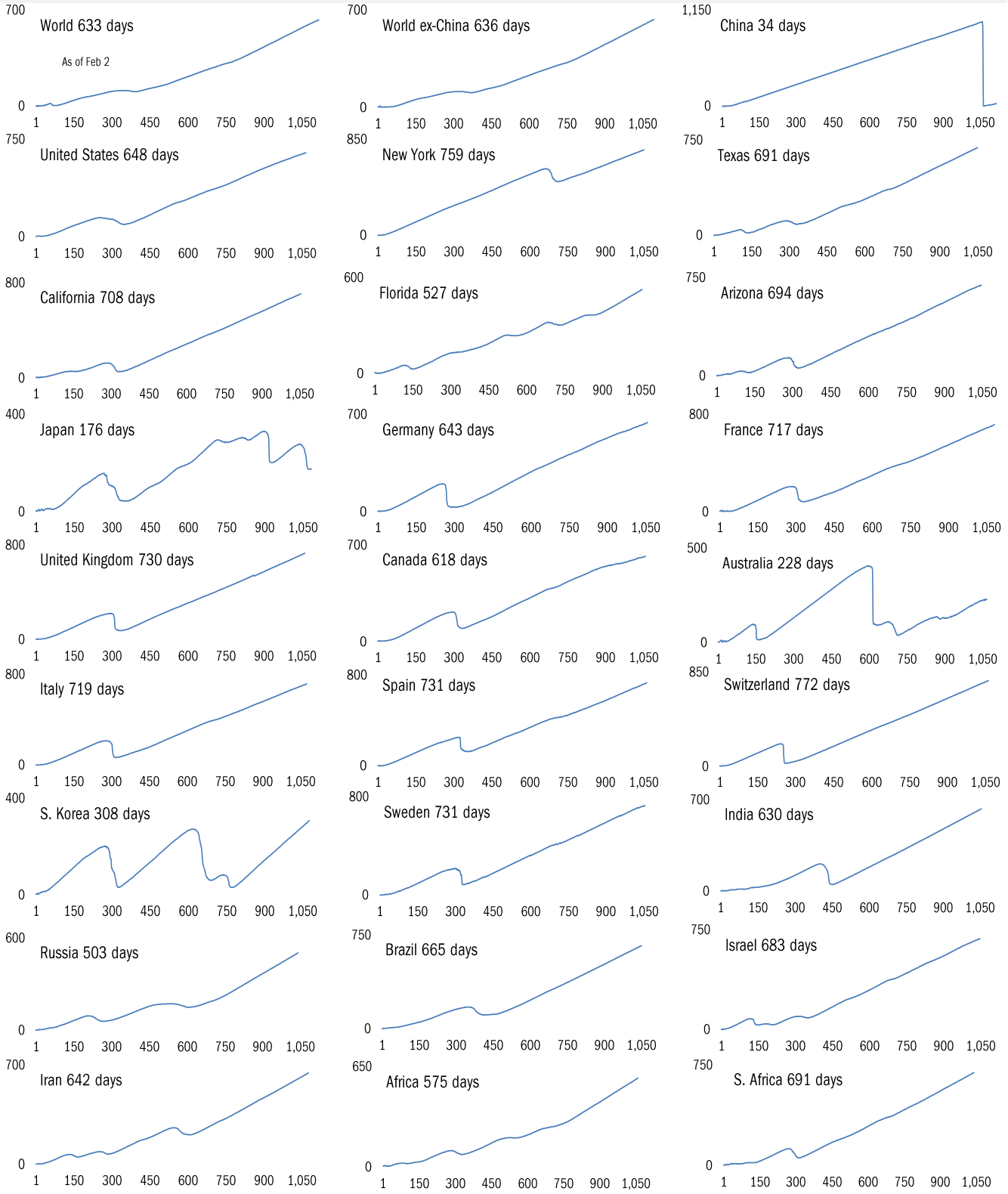


Source: Johns Hopkins, TrendMacro calculations

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

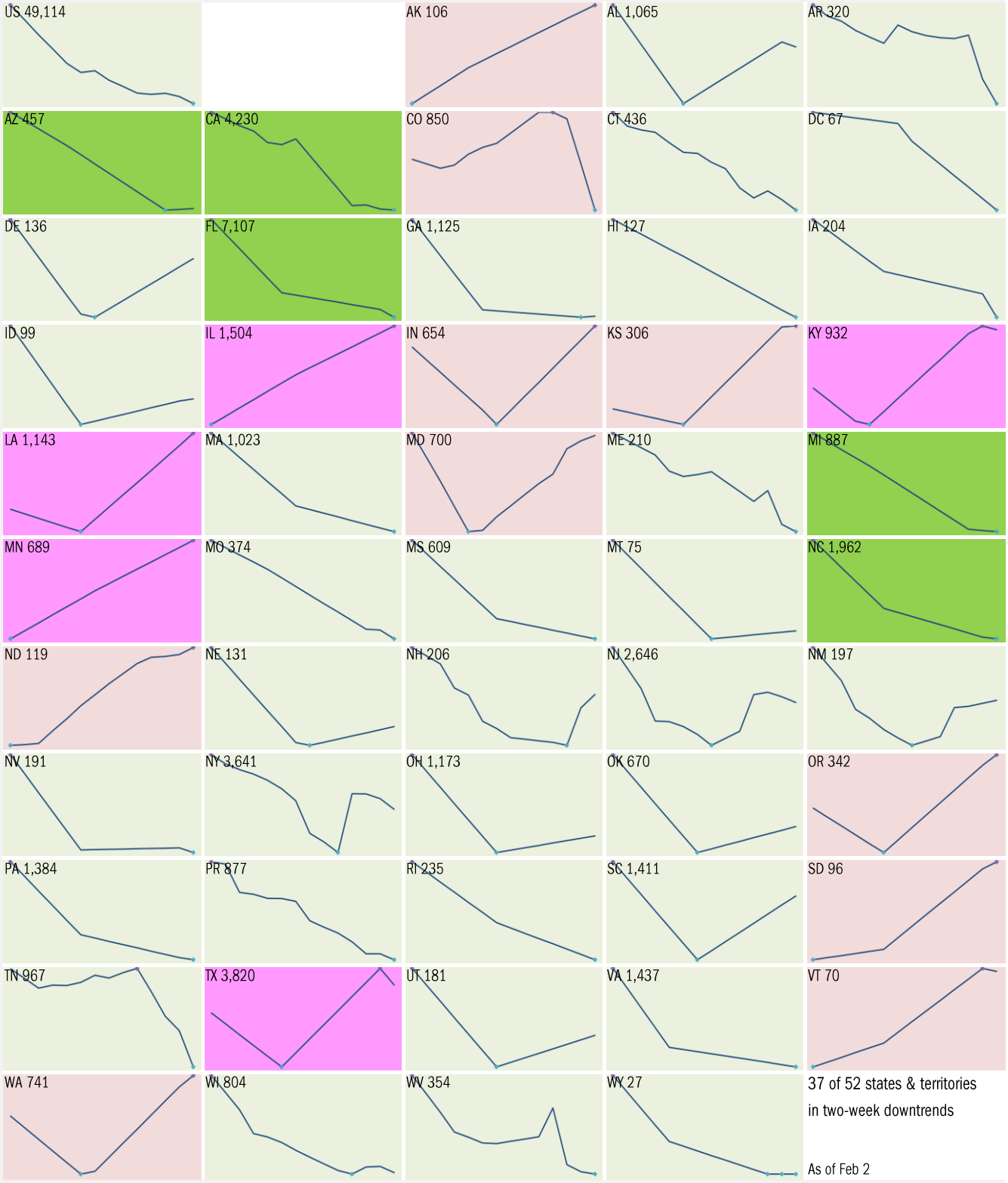


Source: Johns Hopkins, TrendMacro calculations

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

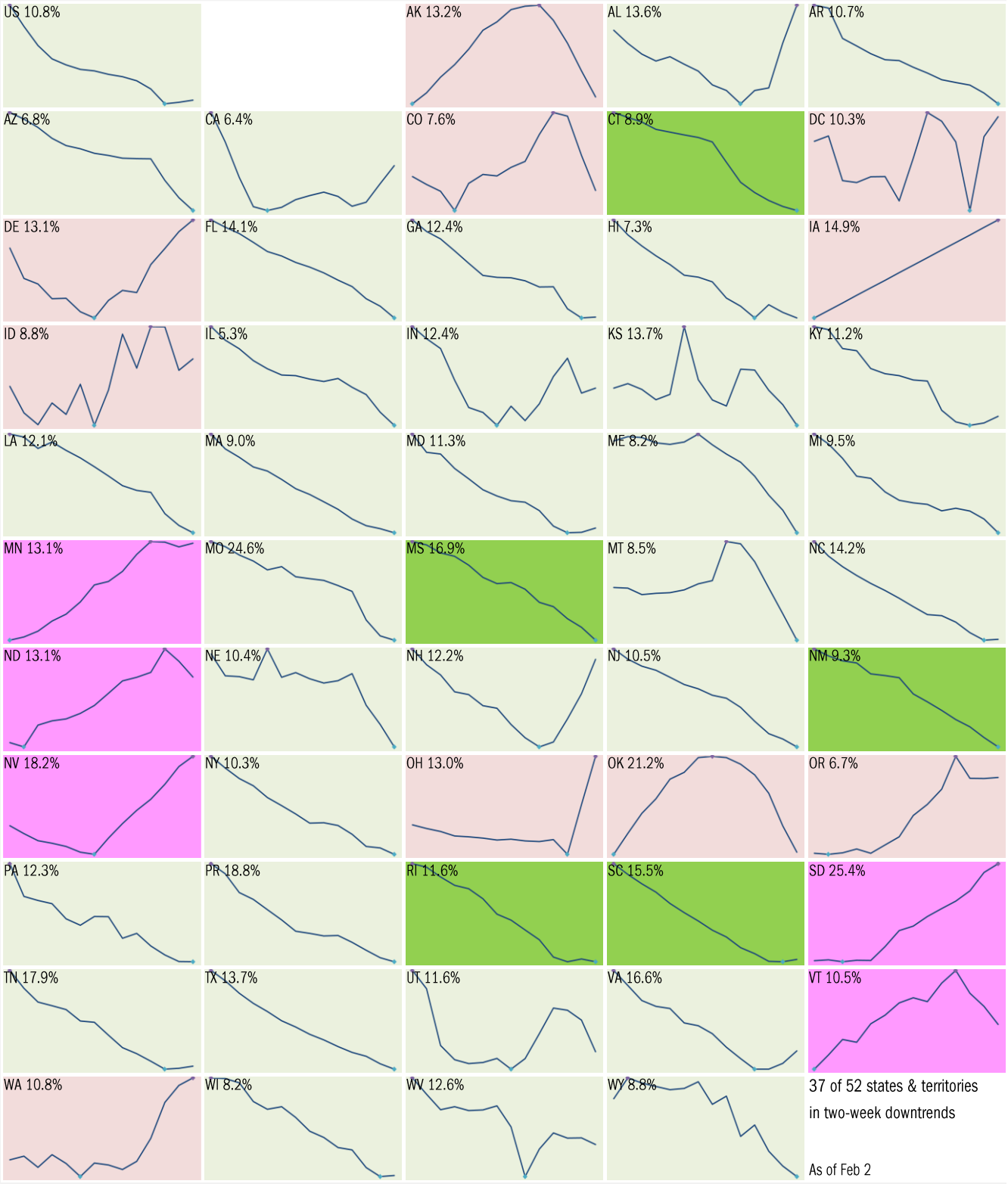


Source: Johns Hopkins, TrendMacro calculations

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

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

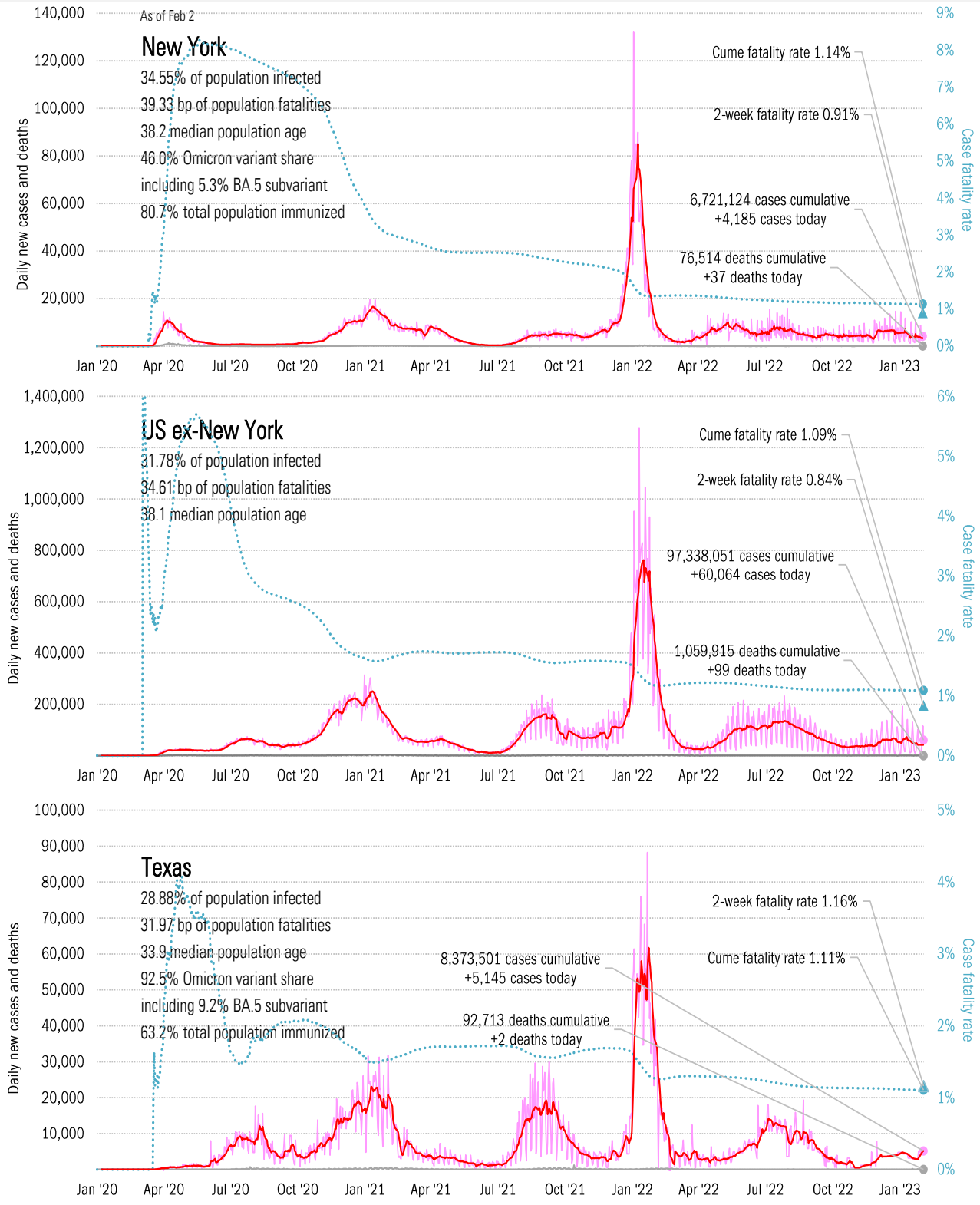
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

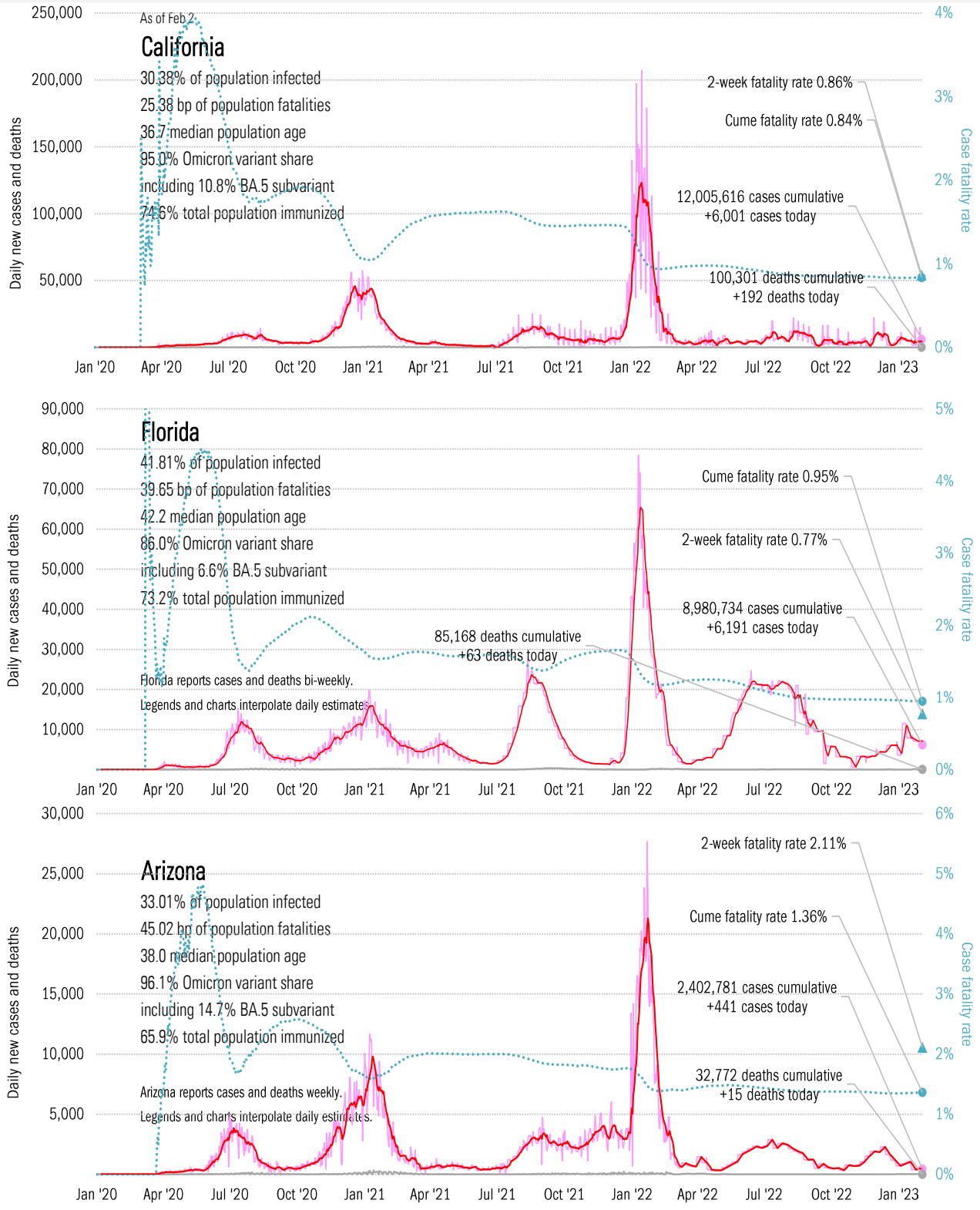
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

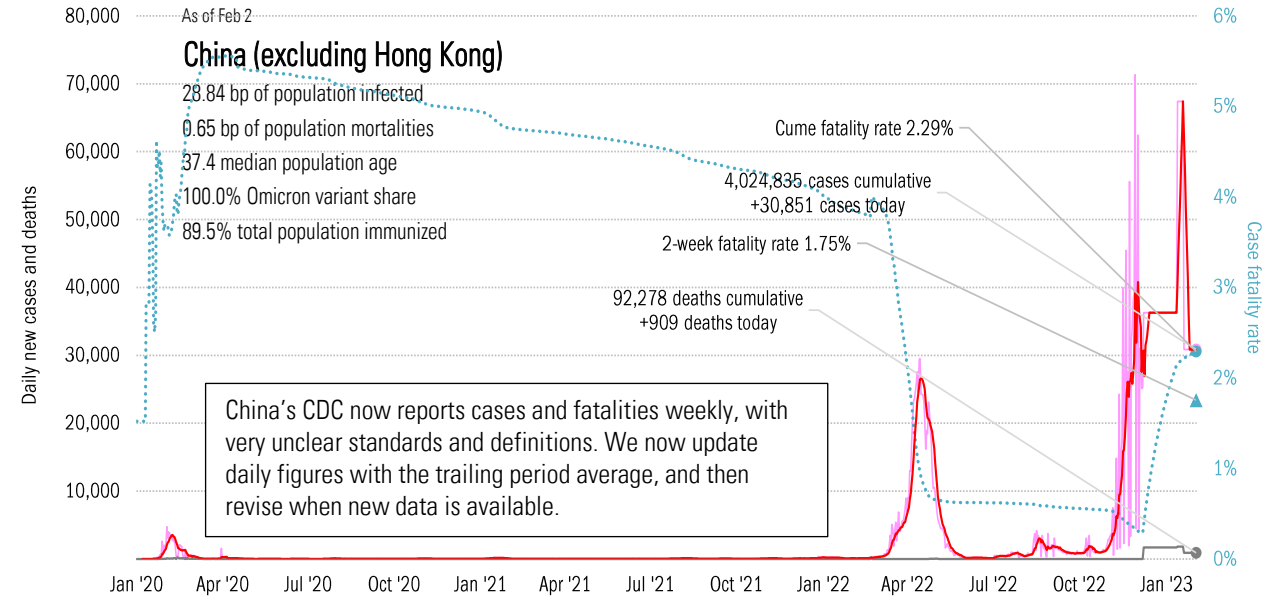
Cases: 7-day average and daily Deaths: Daily

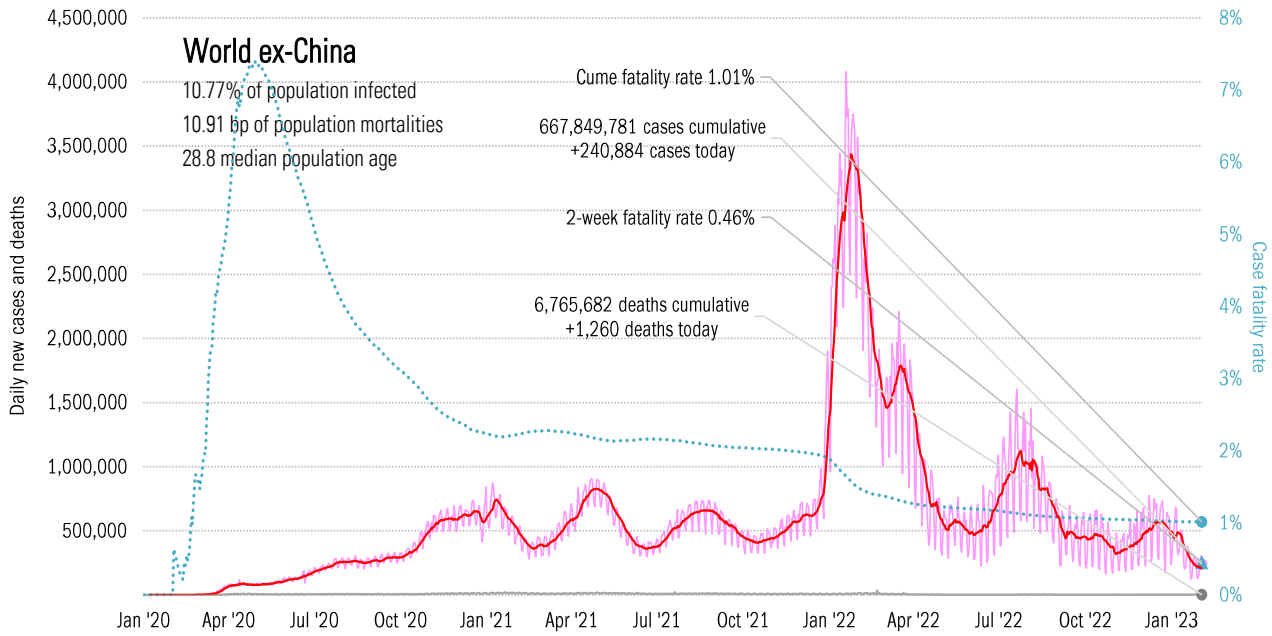


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

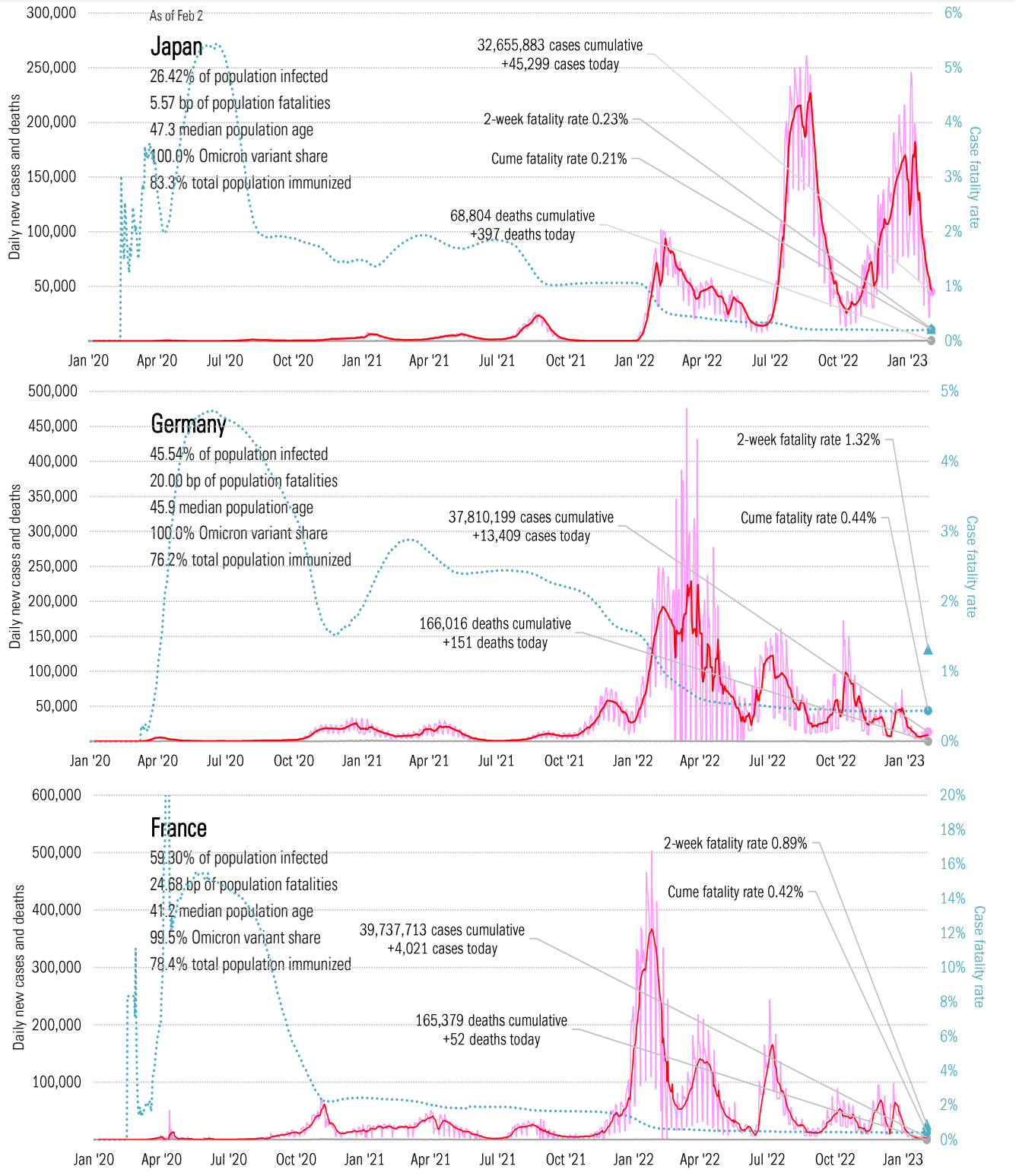




Source: Johns Hopkins, China CDC, TrendMacro calculations

Impact in the largest economies

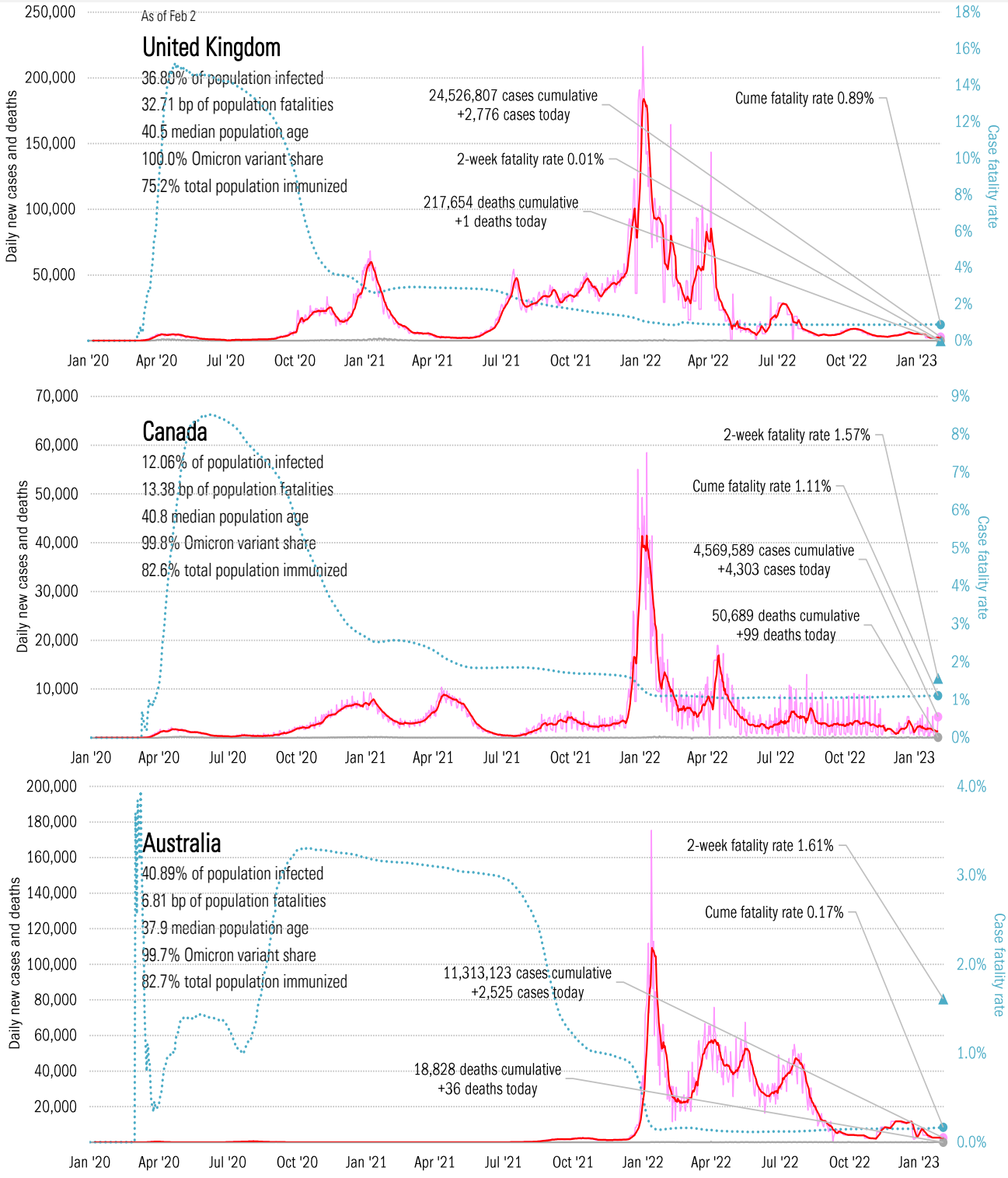
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

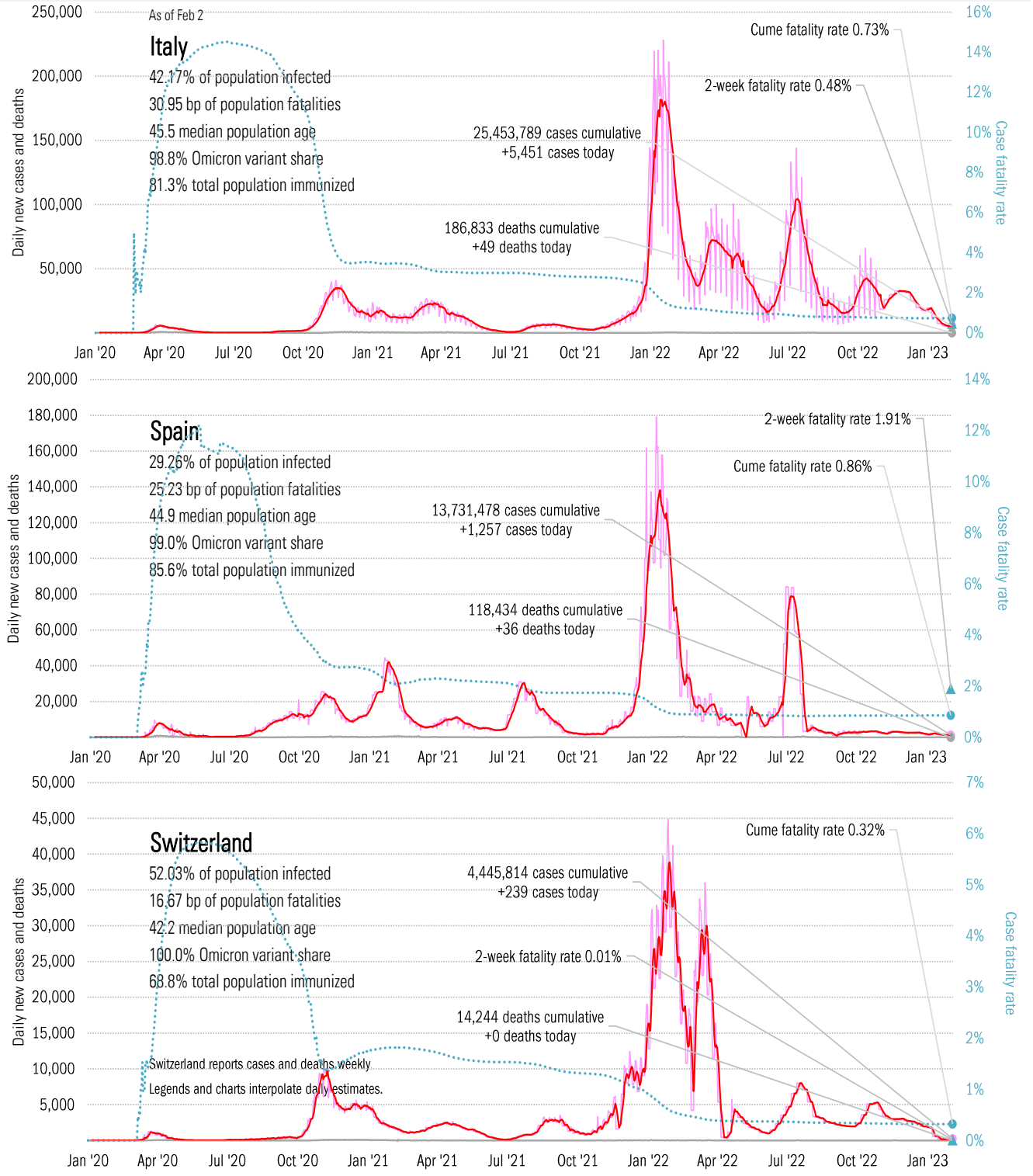
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

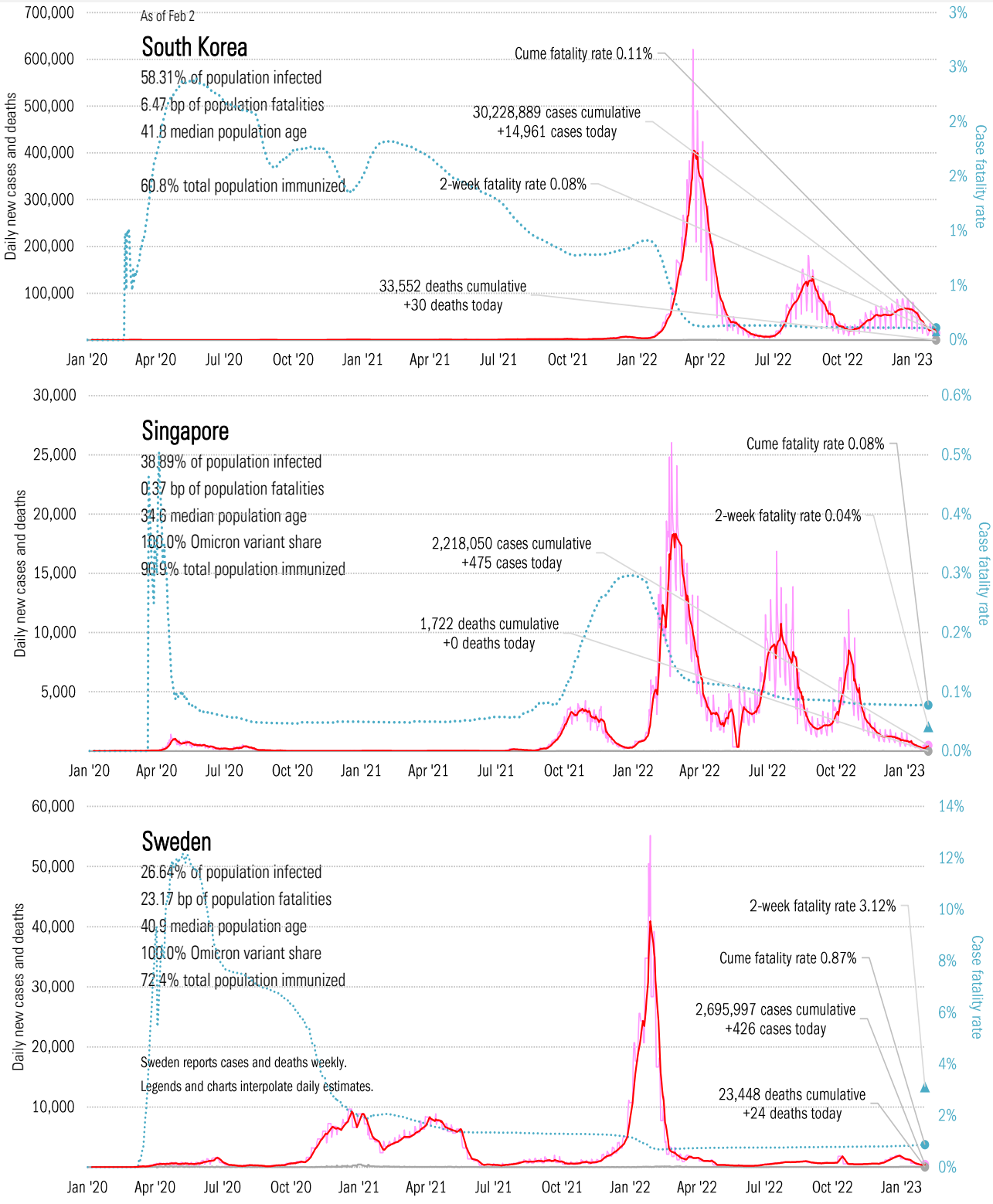
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

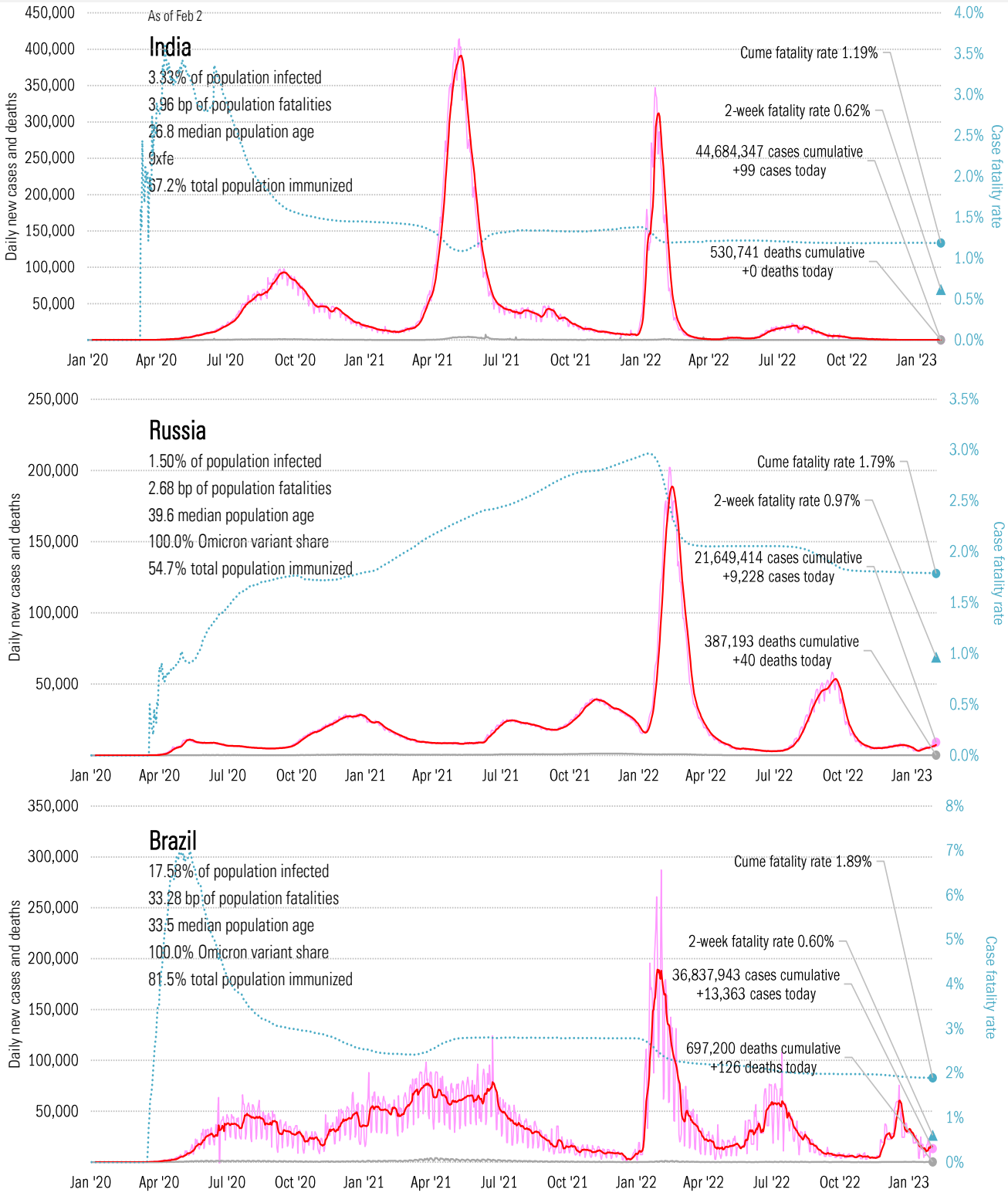
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

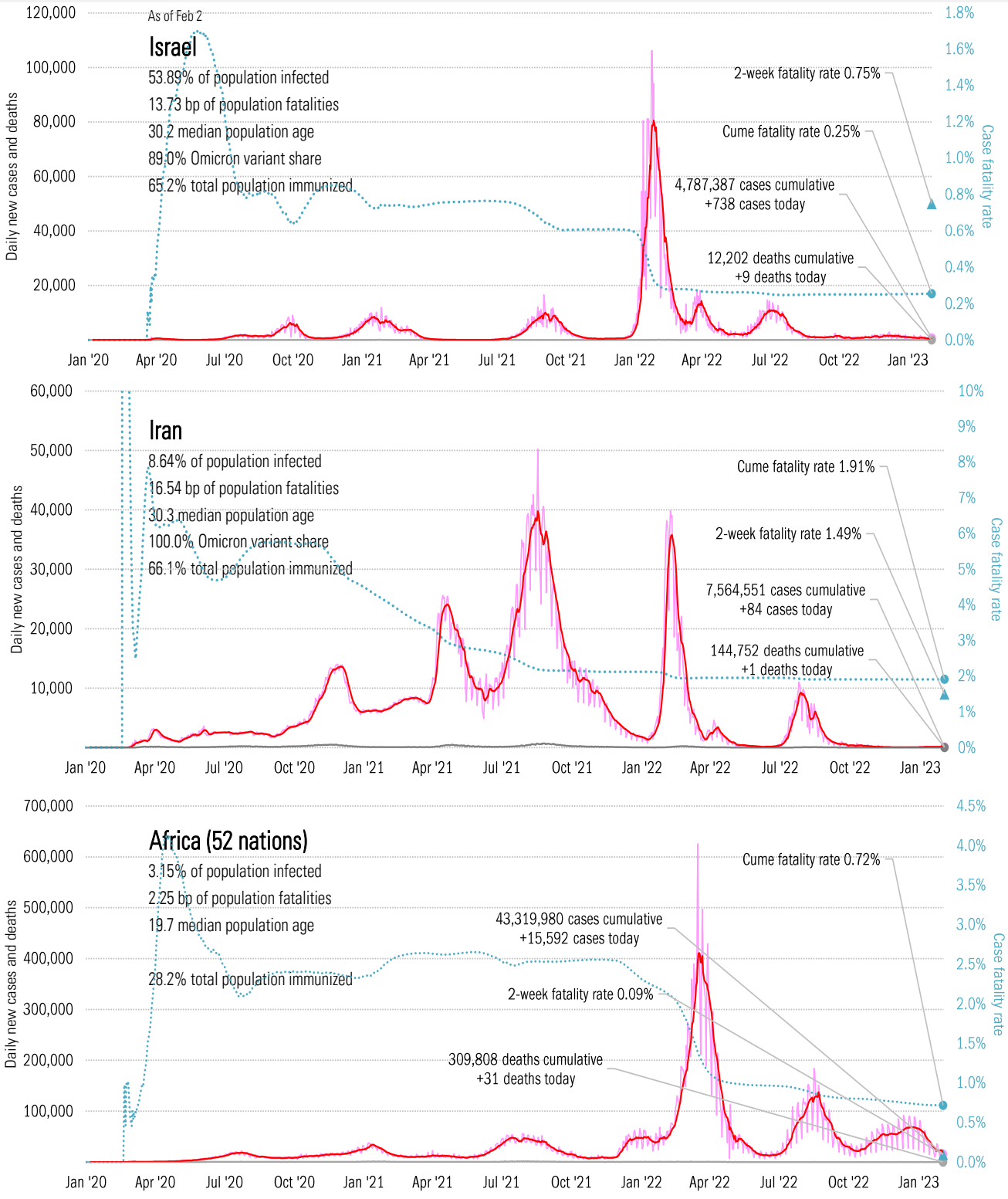
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

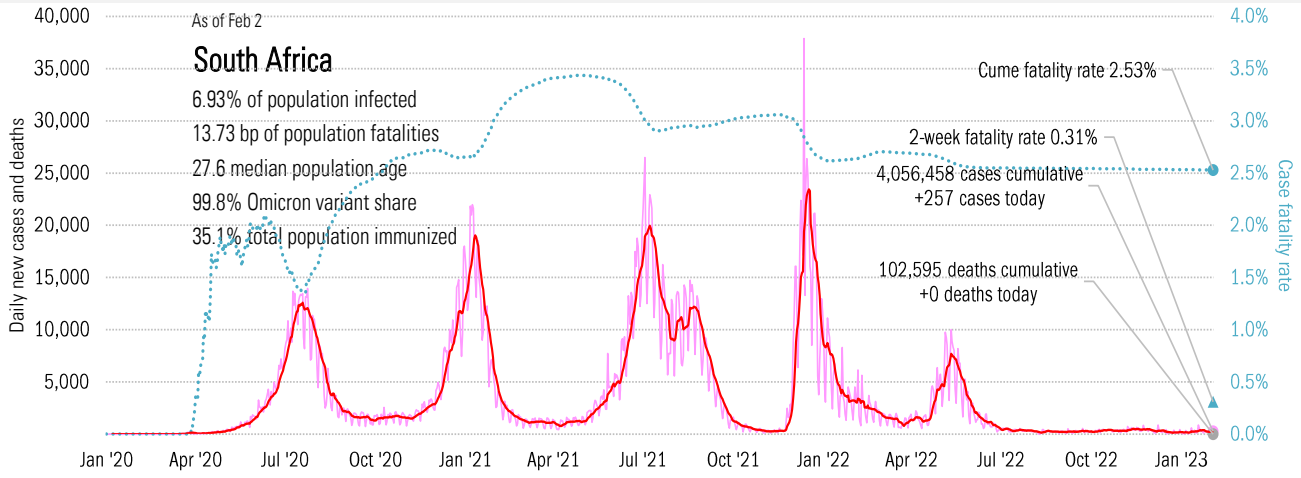
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations