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

Data Insights: Covid-2019 Monitor

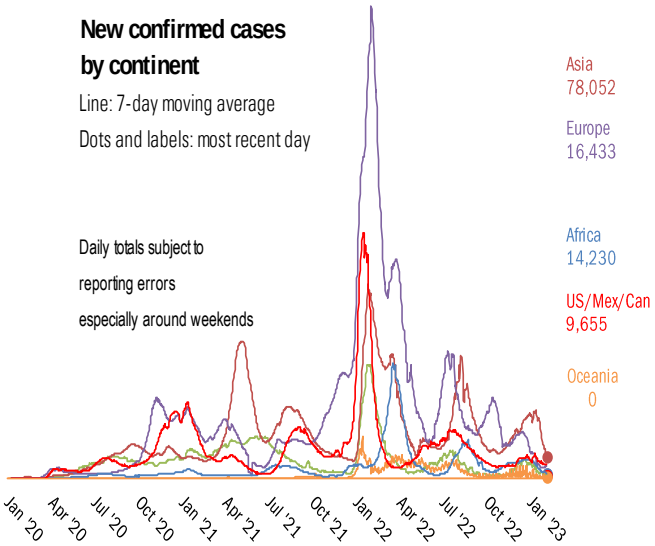
Sunday, February 5, 2023

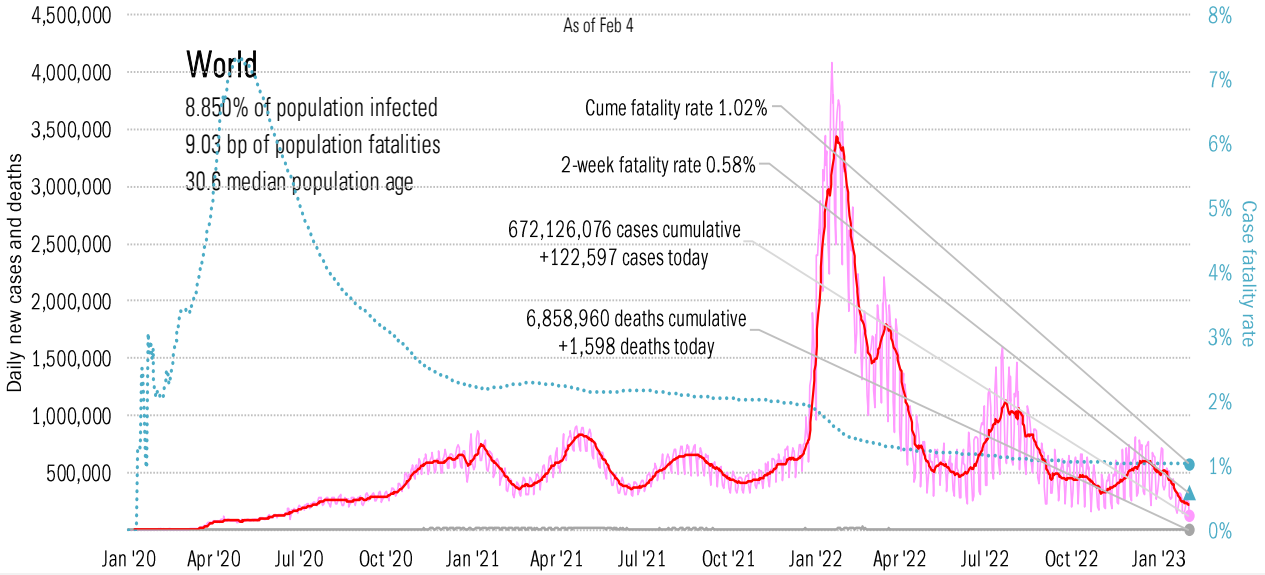
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries (see China note page 14)

New cases		New Deaths	
Japan	38,581	United States	472
United States	38,366	China	468
Taiwan*	23,733	Japan	256
China	14,106	Germany	112
Korea, South	14,018	Taiwan*	79
Germany	12,378	Italy	63
Russia	9,600	Russia	40
Italy	5,451	Spain	40
Austria	4,075	Australia	36
France	3,618	France	28





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
Donald Luskin: 214 550 2020 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

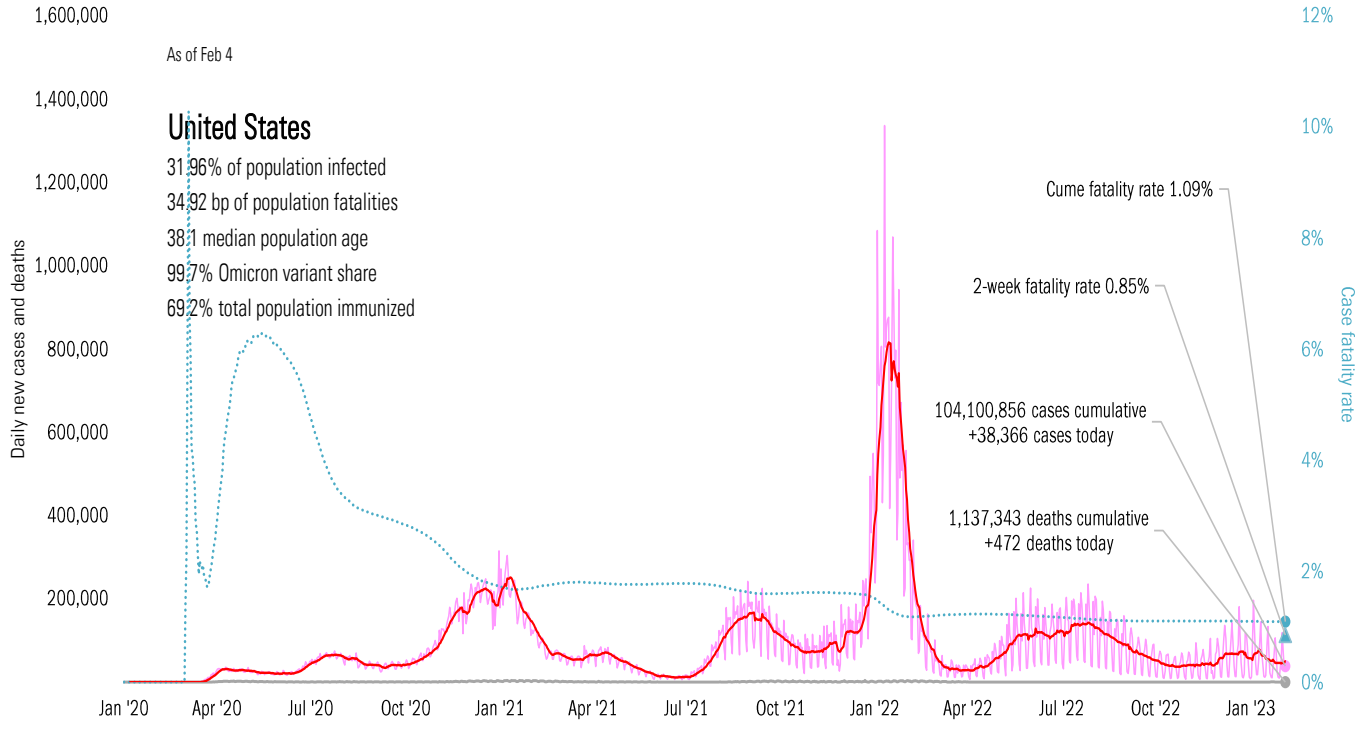
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	5,700	FL	112	AL	65	CA	12,008,942	CA	100,318	TX	583,173	MA	87%	TX	87%
CA	3,326	MI	35	MS	36	TX	8,374,364	TX	92,716	CA	559,310	DE	86%	RI	86%
NJ	1,971	MA	25	PA	207	FL	7,483,857	FL	85,710	FL	527,771	RI	86%	AL	86%
NC	1,892	PA	23	IL	149	NY	6,726,629	NY	76,546	NY	349,397	WA	84%	NC	86%
NY	1,578	GA	20	MO	78	IL	4,029,905	PA	49,791	OH	241,554	MD	84%	AK	84%
LA	1,462	NE	19	SC	58	PA	3,479,345	GA	42,054	GA	239,899	MN	84%	MA	82%
IL	1,448	SC	19	IN	68	NC	3,425,789	MI	41,690	PA	227,307	MO	83%	NM	81%
VA	1,393	CA	17	TN	78	OH	3,356,027	OH	41,464	IL	210,861	NC	83%	GA	81%
PA	1,349	AZ	15	VA	94	GA	3,035,874	IL	41,180	MI	178,907	DC	83%	DC	81%
OH	1,180	TX	15	CT	79	MI	3,030,505	NJ	35,821	NJ	160,479	AK	83%	MO	80%
	21,300		300		912		54,951,237		607,290		3,278,658				
All states	38,366		472		3,736	All states	104,100,856		1,137,343		5,942,495	All states	70%		67%
Top ten	56%		64%		24%	Top ten	54%		55%		55%	Median	78%		75%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
NY	-2,349	TX	-3	MN	-29
AR	-7	AR	-2	CA	-24
AK	0	CT	-2	OK	-20
AL	0	ME	-2	WA	-20
AZ	0	AL	-2	NM	-16



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

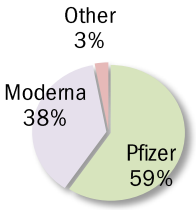
Rolling out the vaccines in the US and the world

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

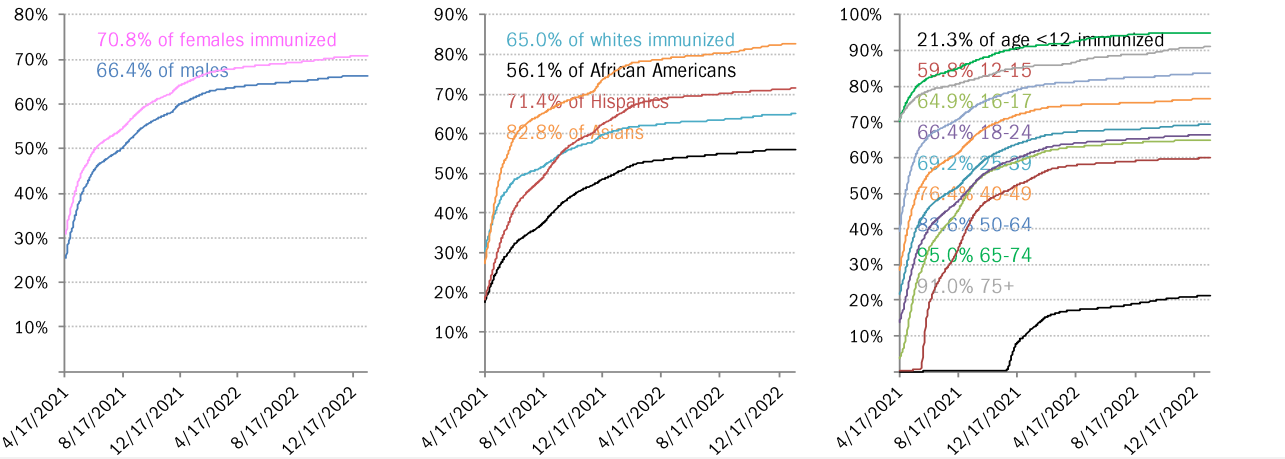
Best
Middle
Worst

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%

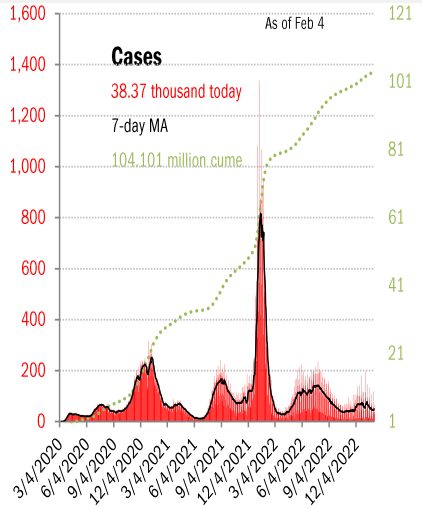
AK
72.9%
65.1%

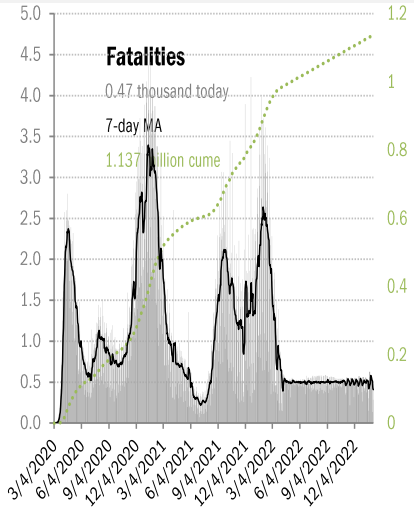
The demographics of US vaccination

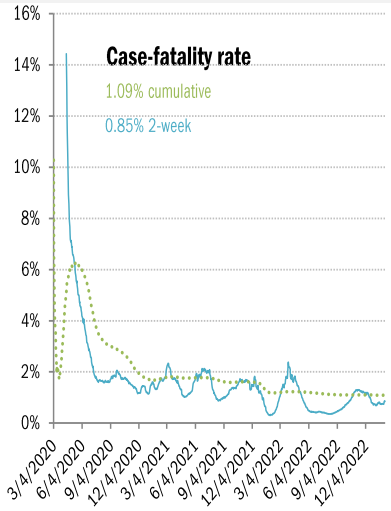


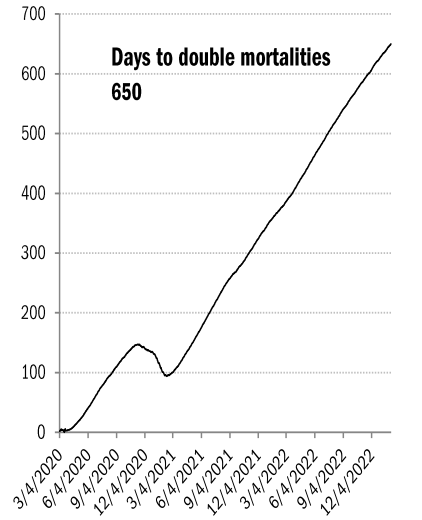
Source: CDC, CDC, Our World in Data, TrendMacro calculations

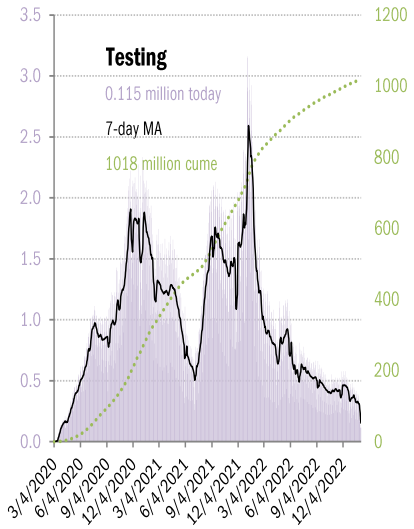
US deep-dive

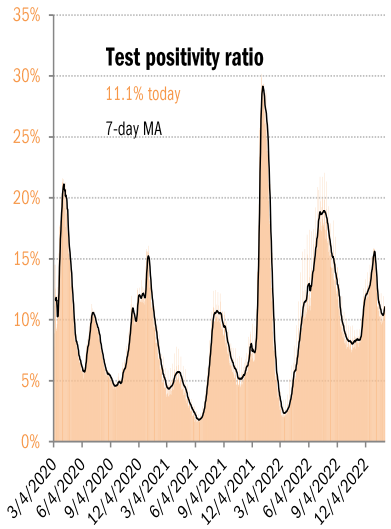


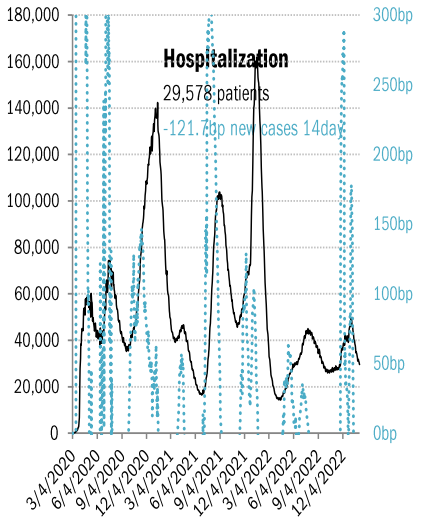


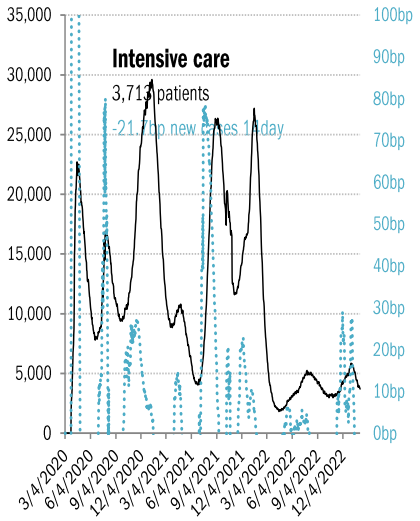


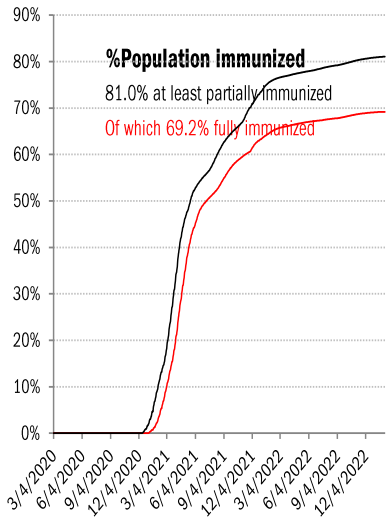












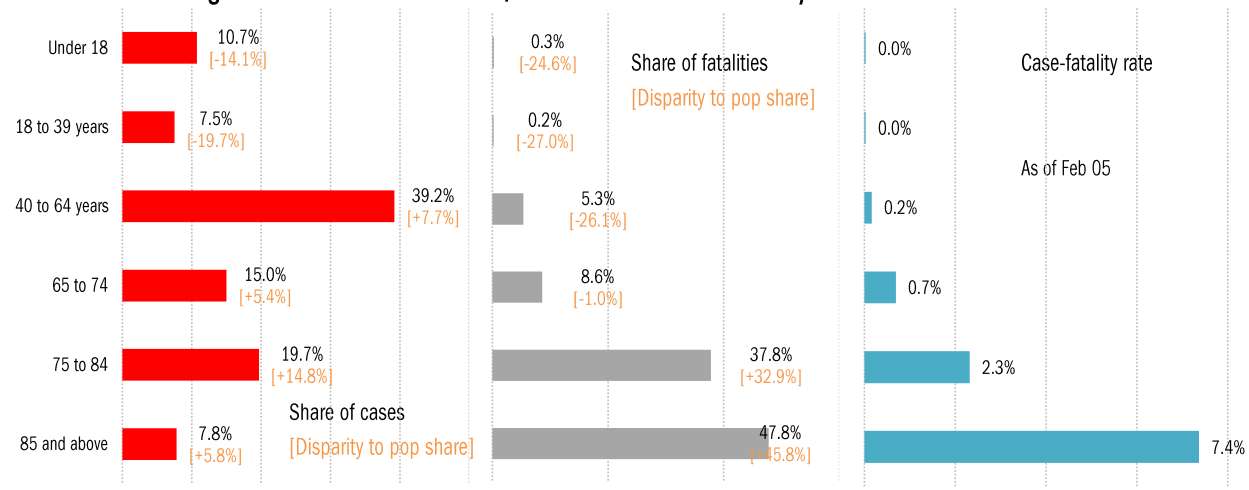
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

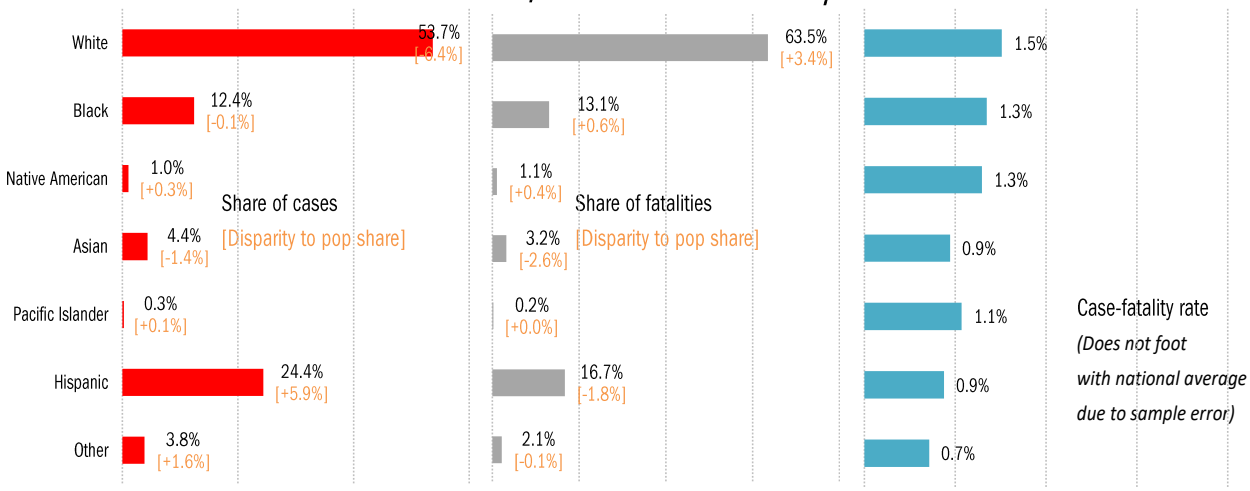
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



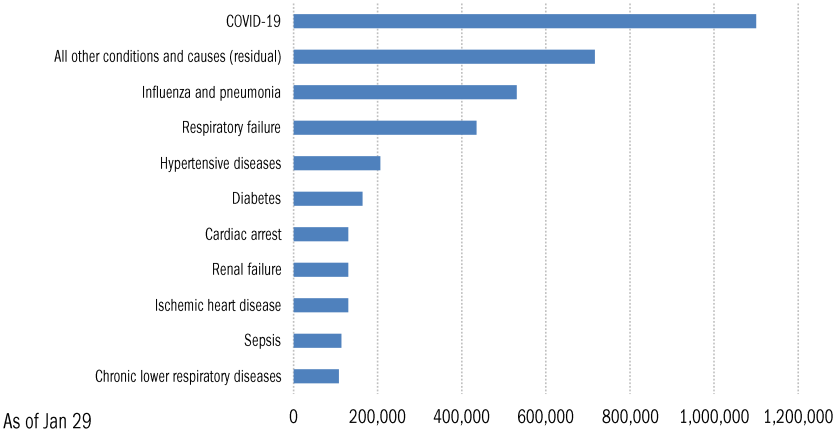
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



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

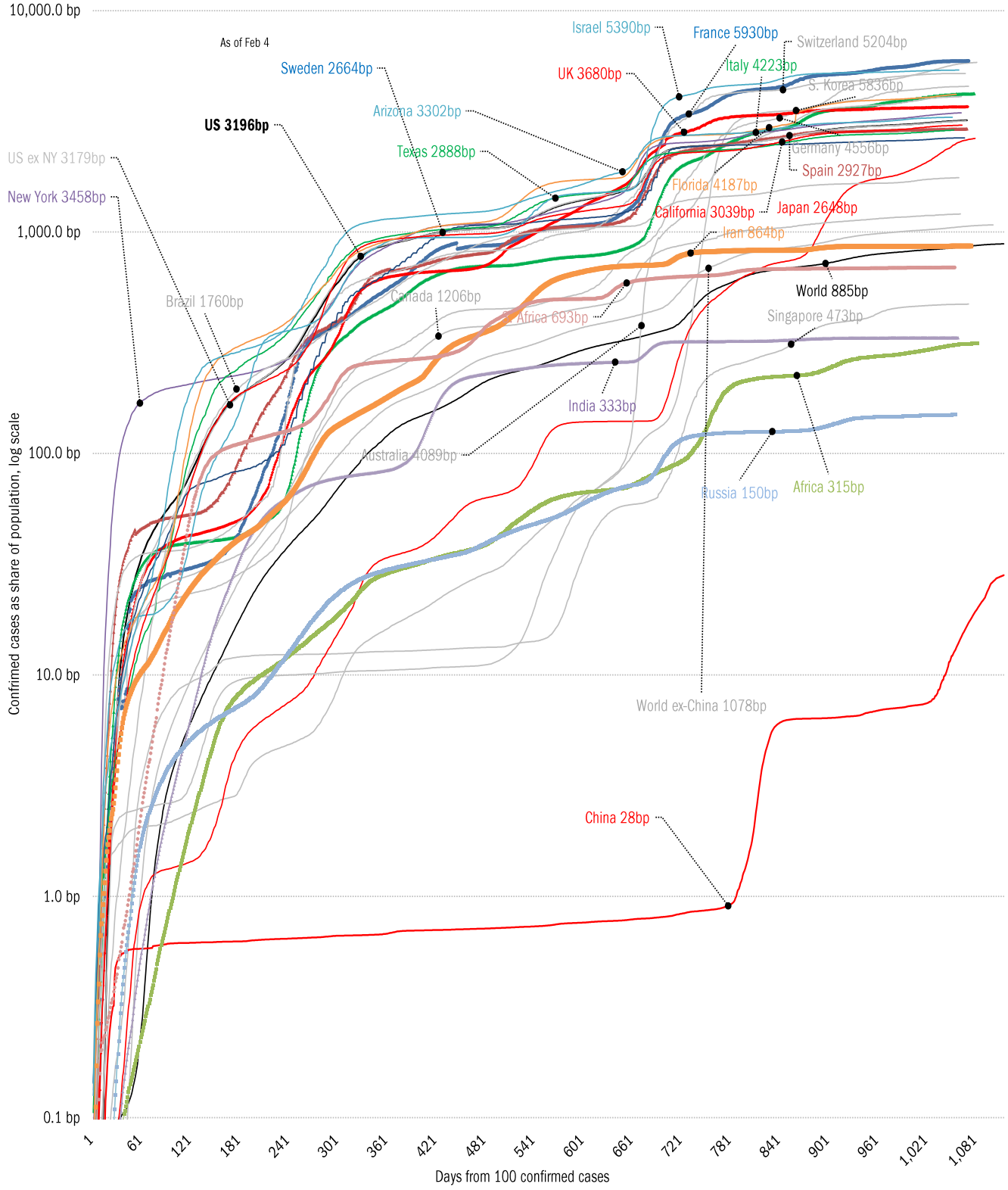
The COVID emergency declaration is ending: What it means for tests, vaccines, treatment
Adrianna Rodriguez
USA Today
February 4, 2023

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

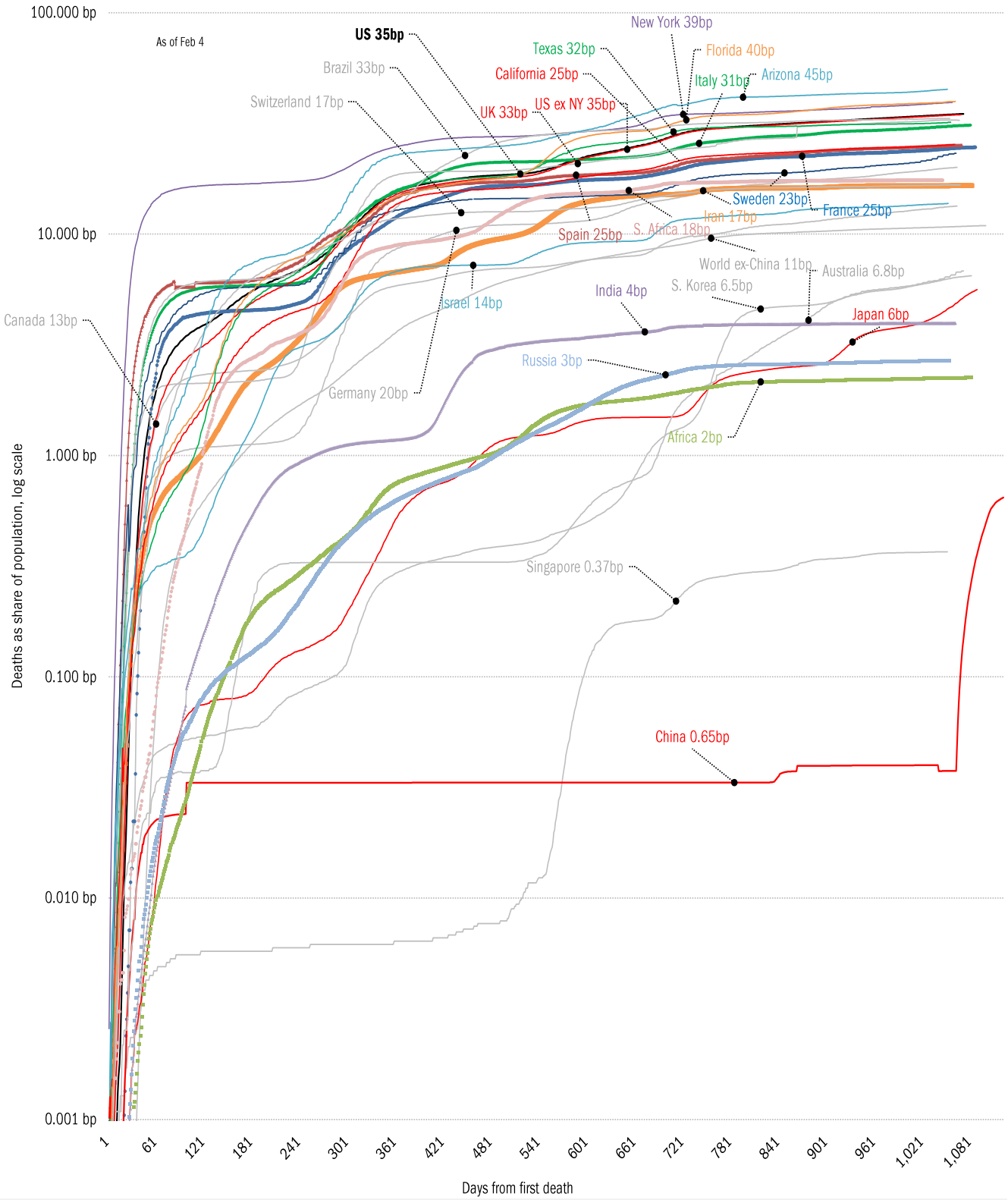
Share of infected population from first day with 100 confirmed cases, log scale



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

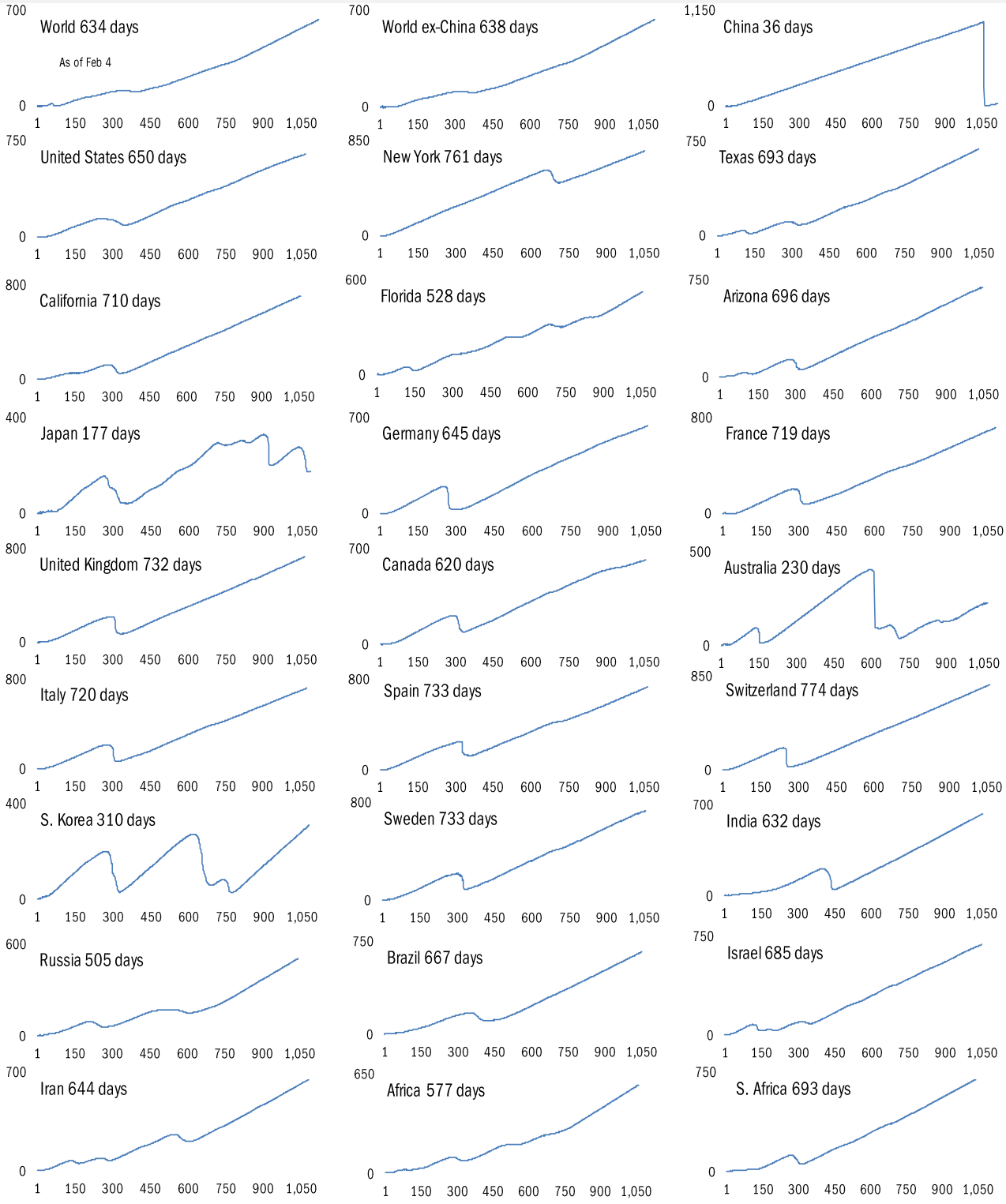


Source: Johns Hopkins, TrendMacro calculations

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

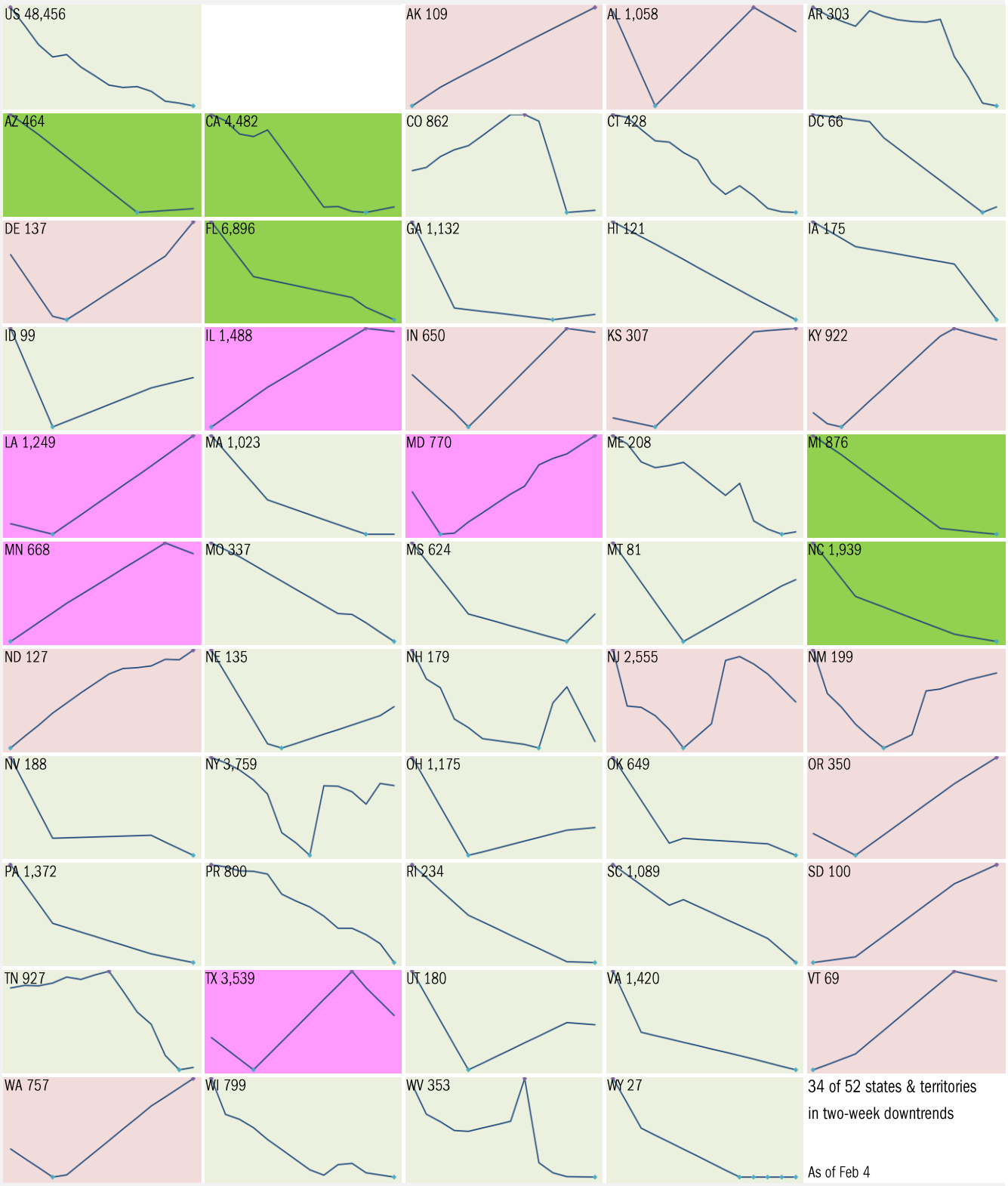


Source: Johns Hopkins, TrendMacro calculations

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

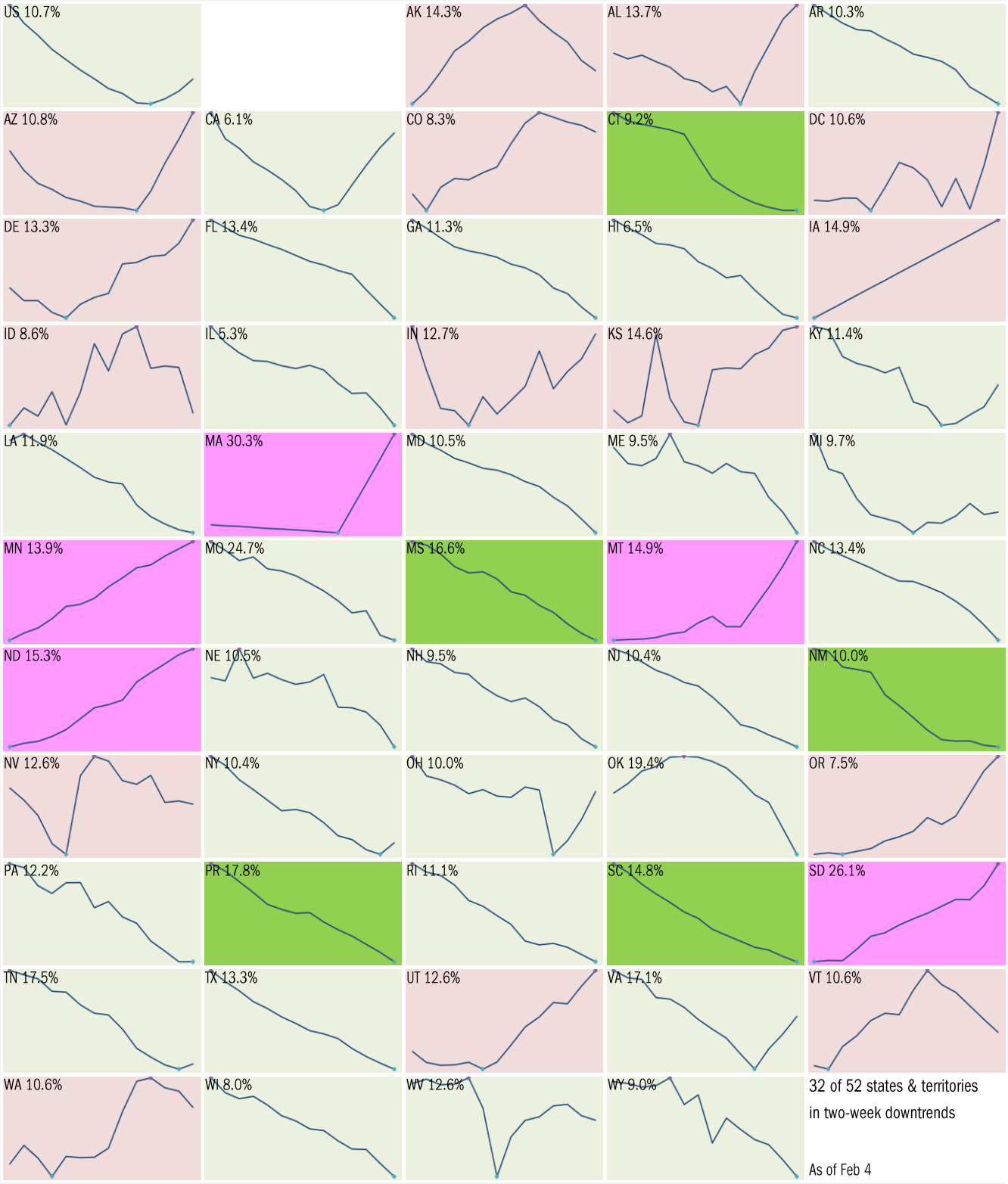


Source: Johns Hopkins, TrendMacro calculations

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

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

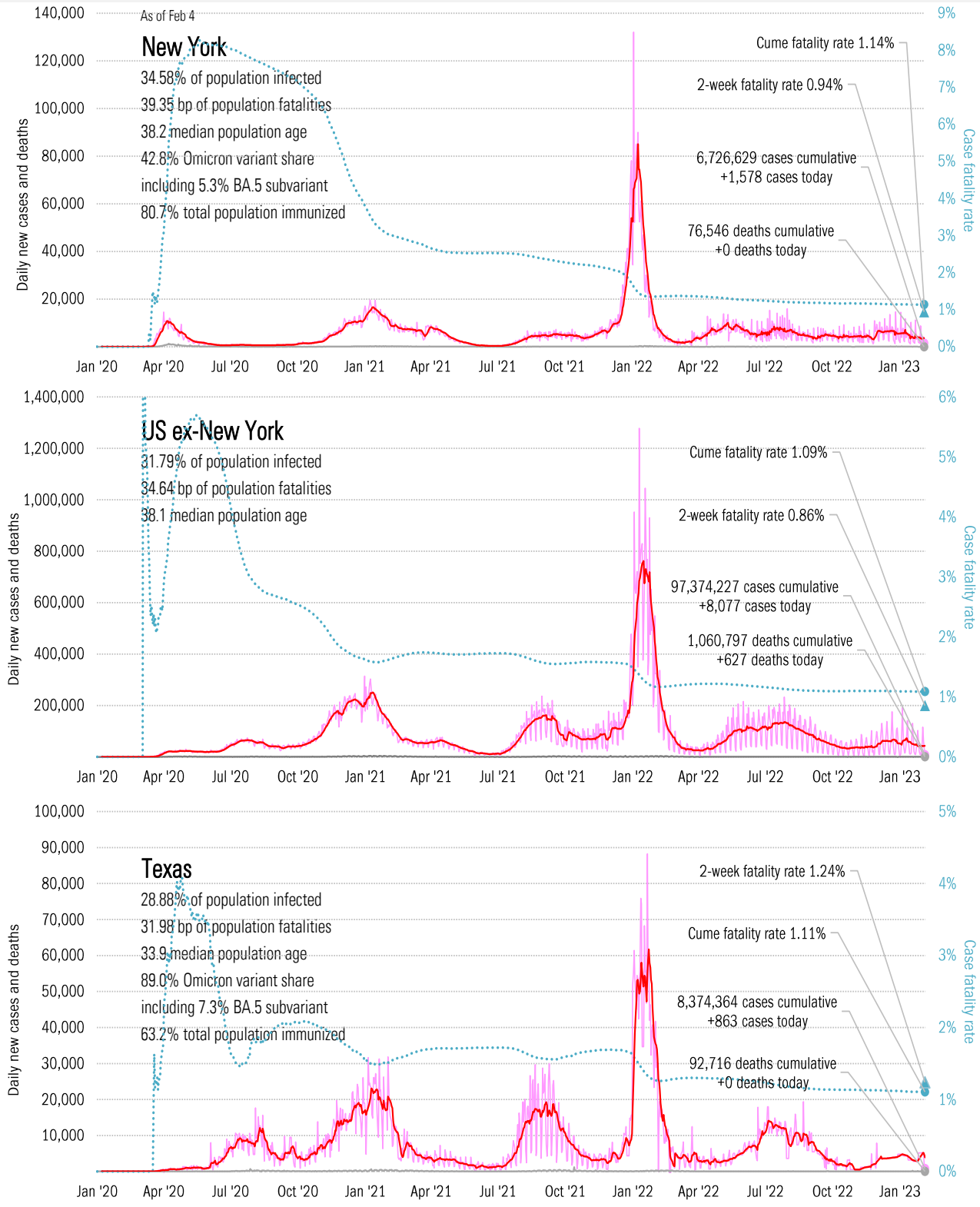
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

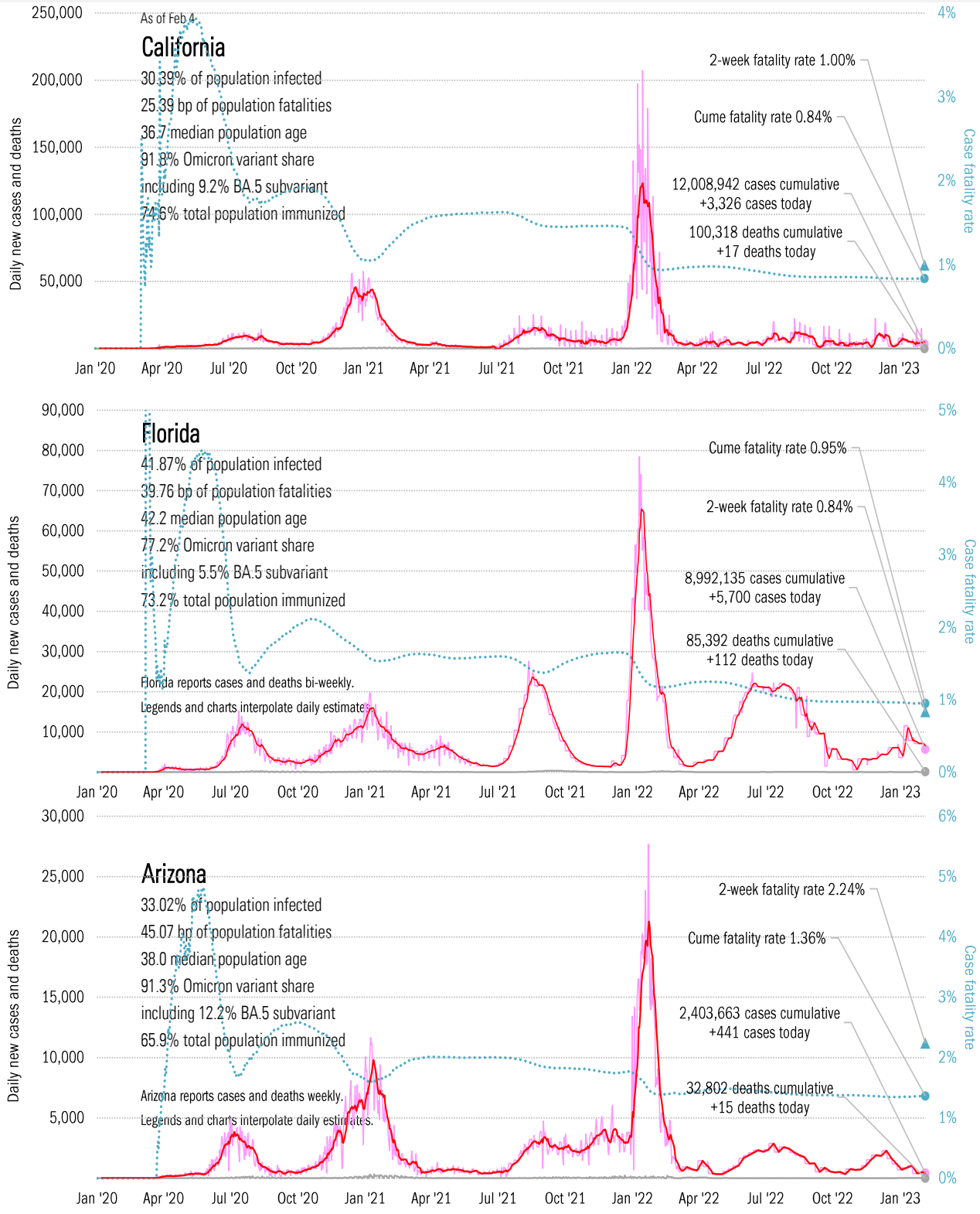
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

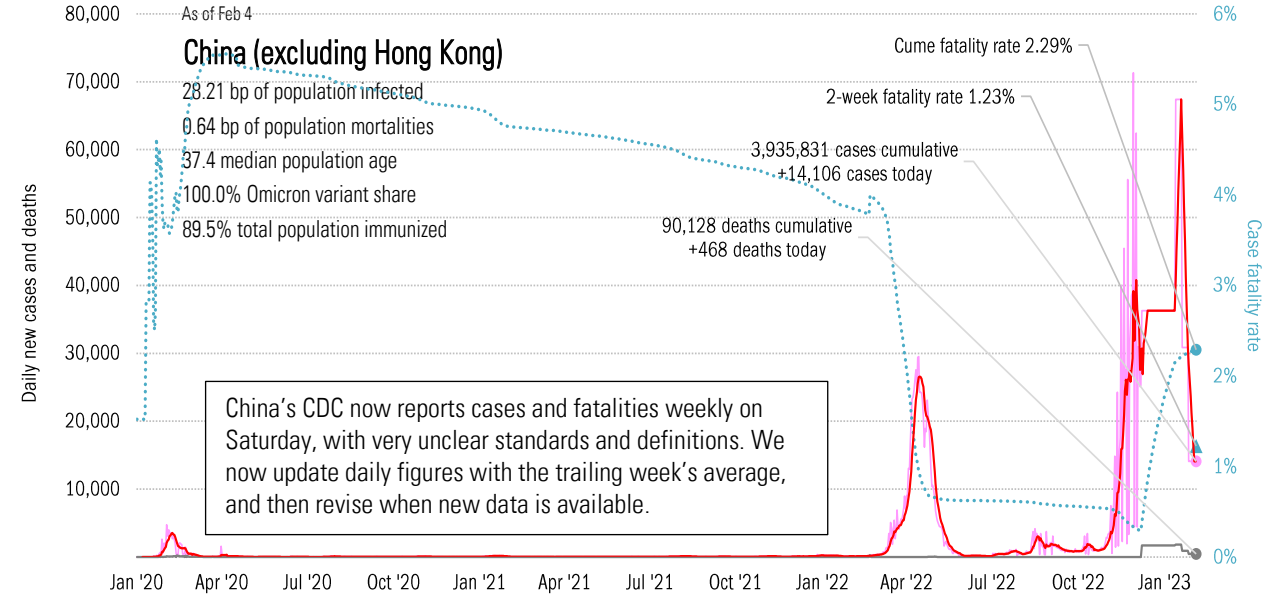
Cases: 7-day average and daily Deaths: Daily

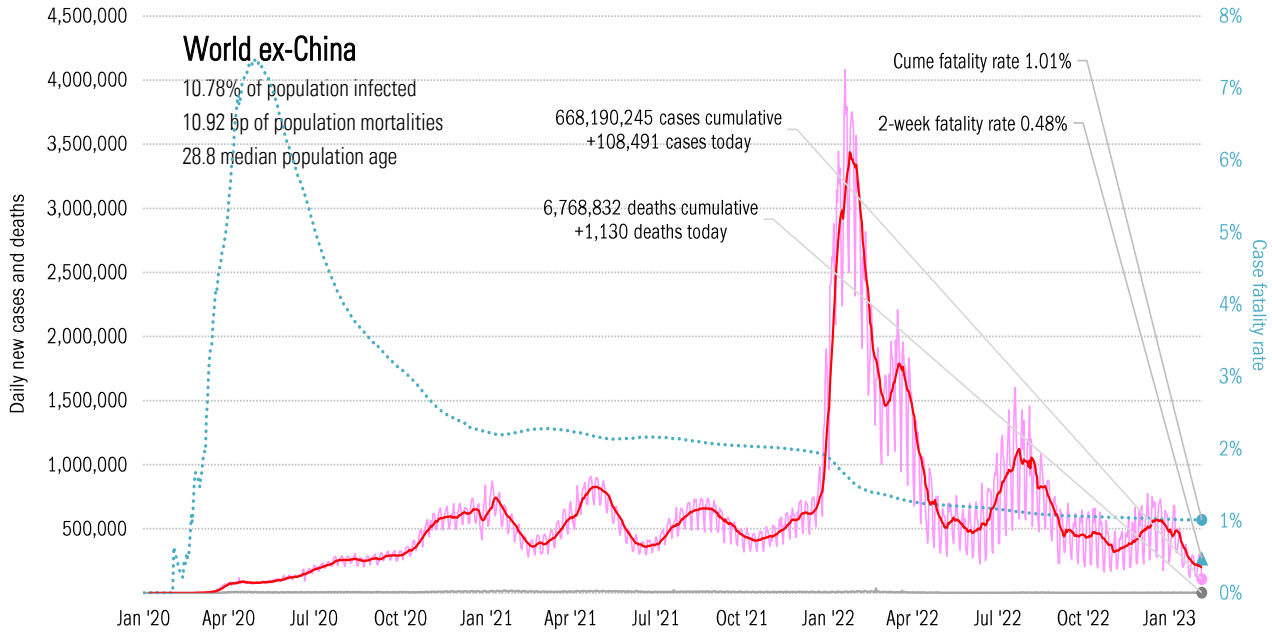


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

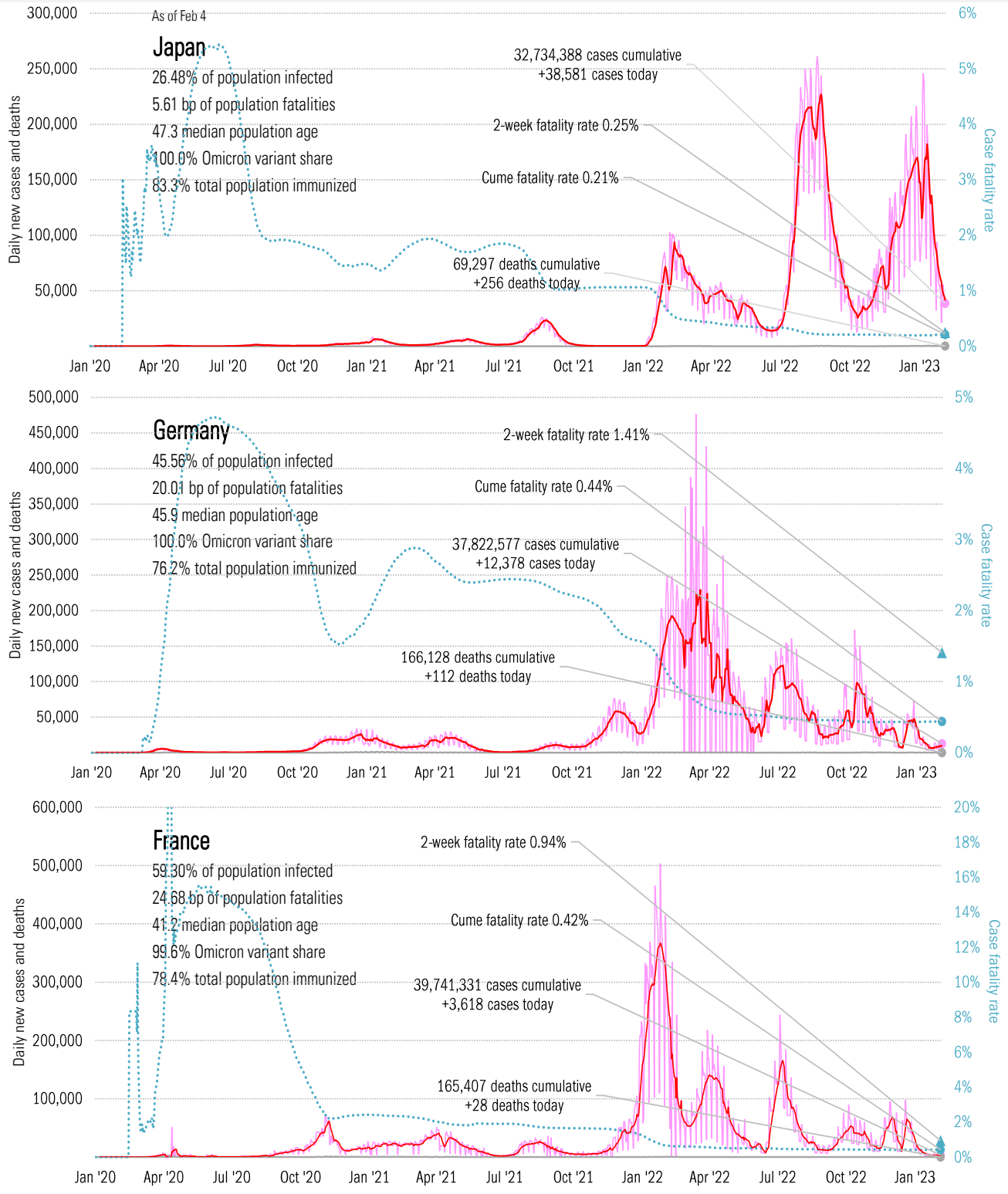




Source: Johns Hopkins, China CDC, TrendMacro calculations

Impact in the largest economies

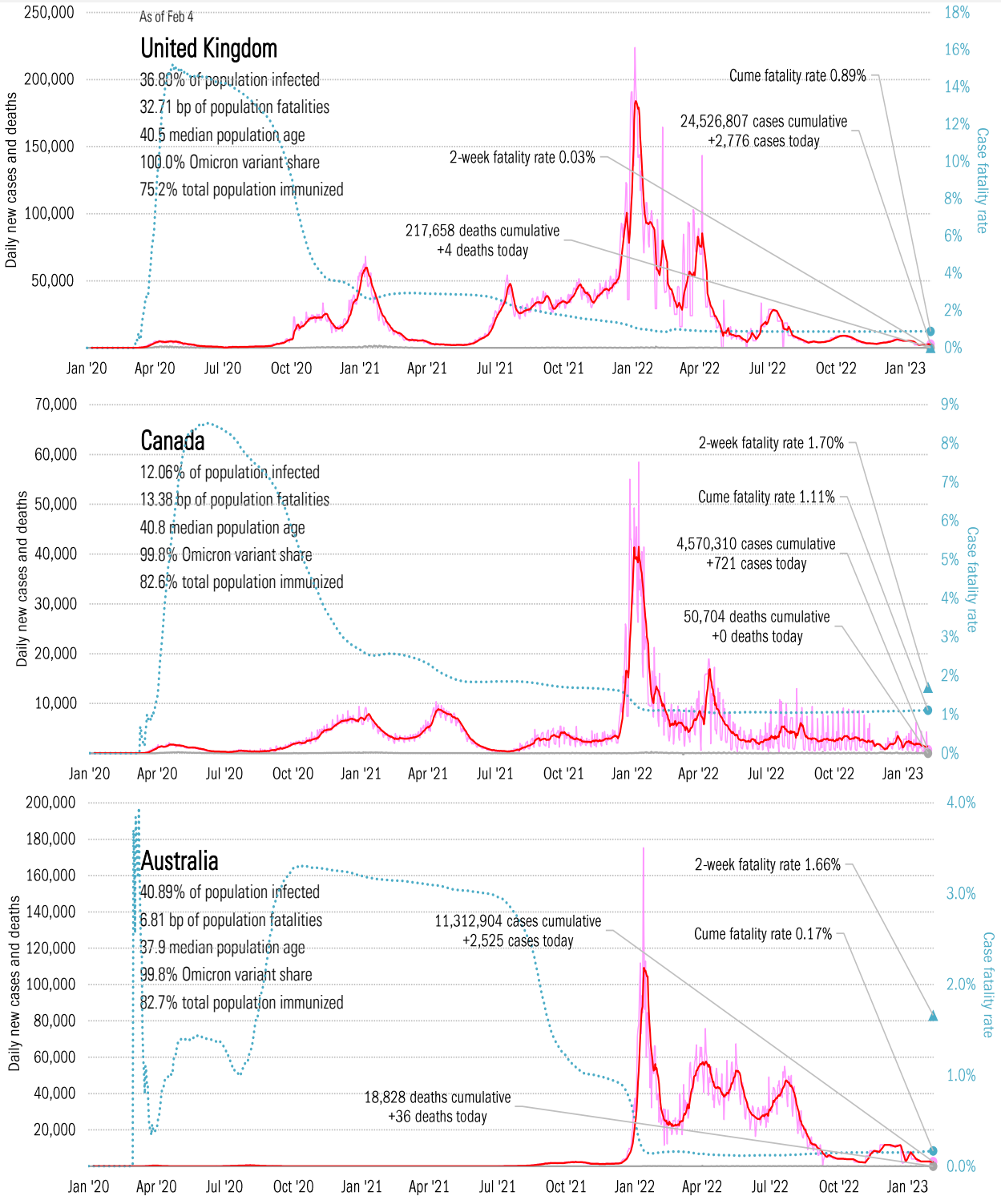
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

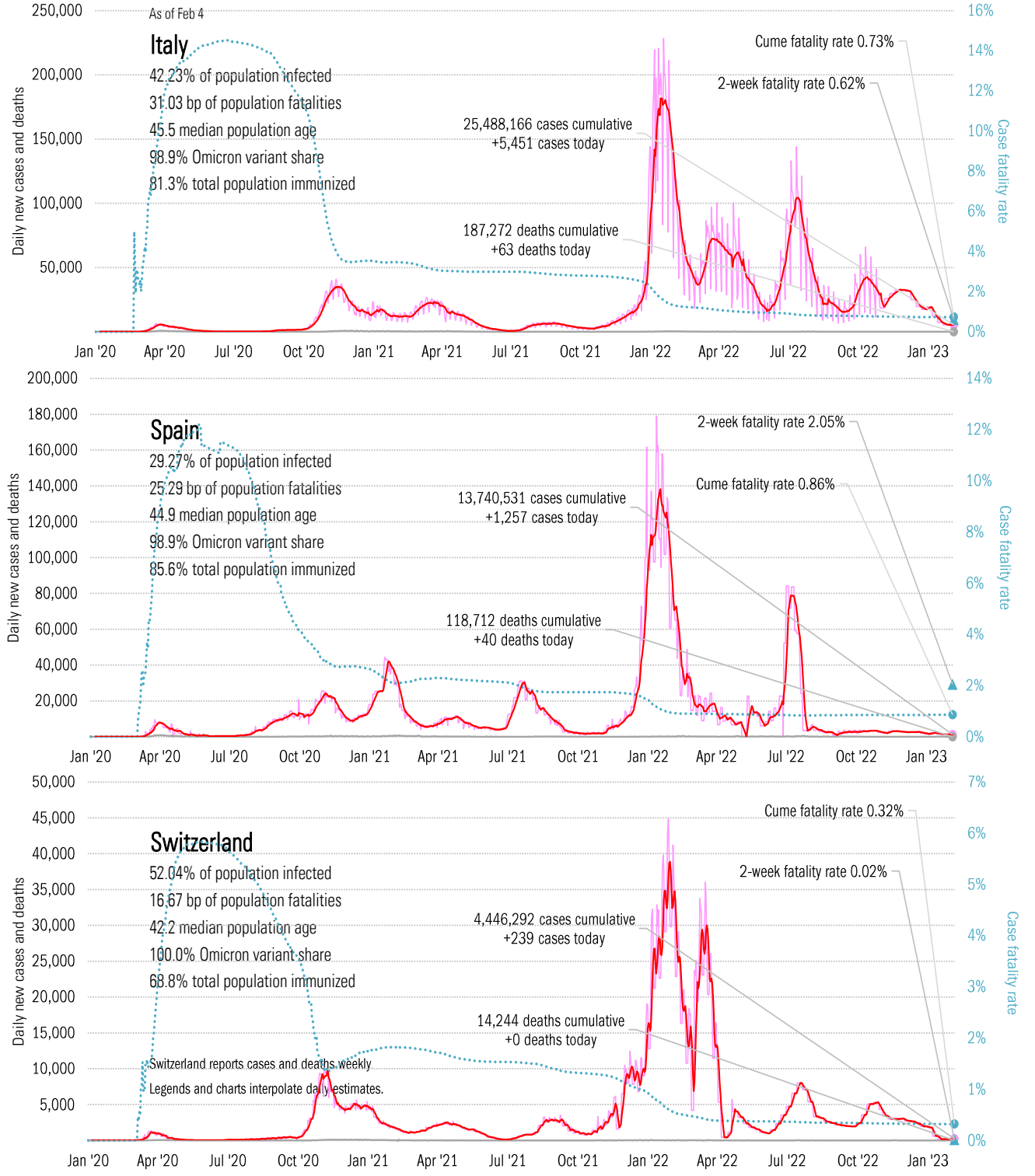
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

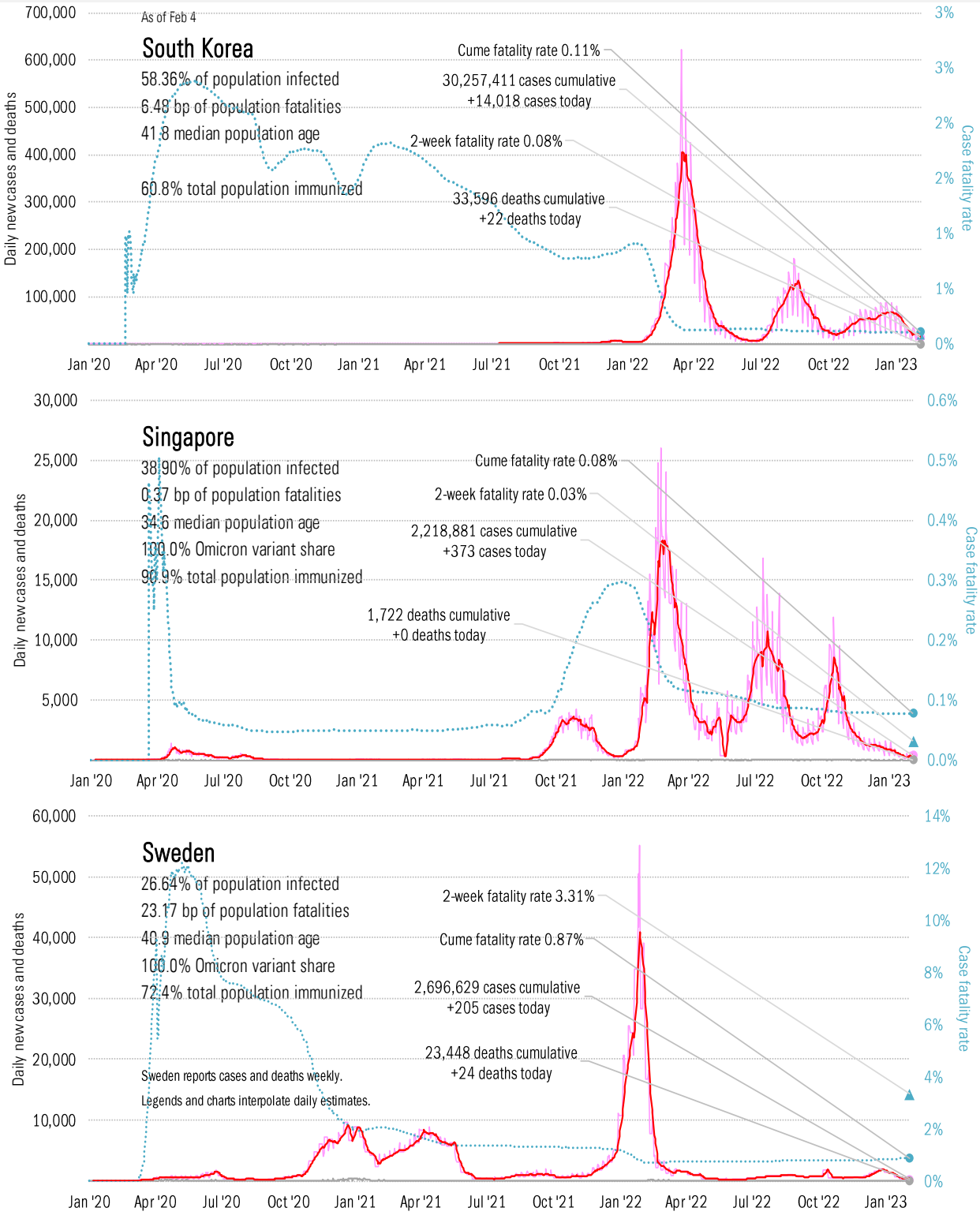
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

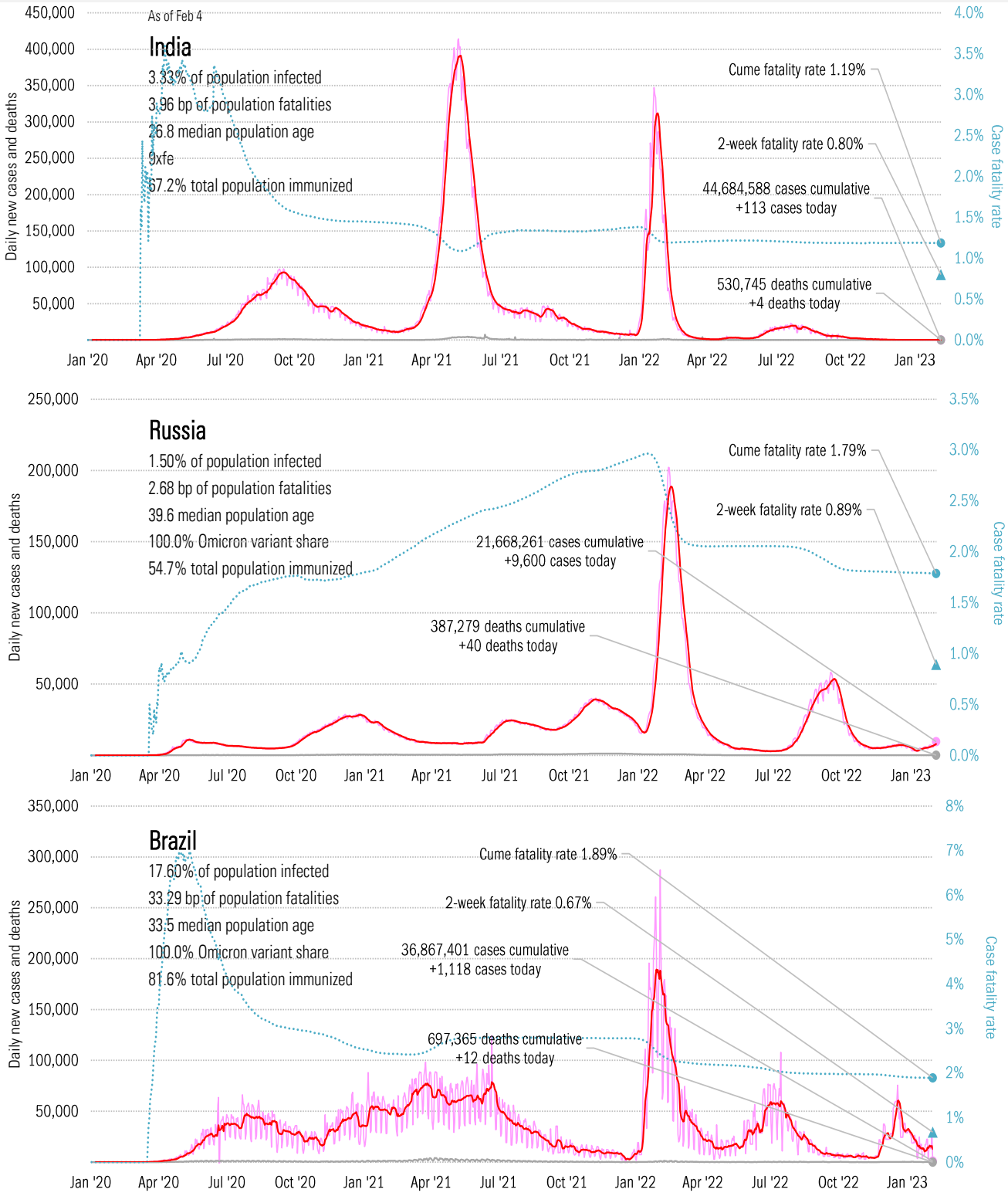
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

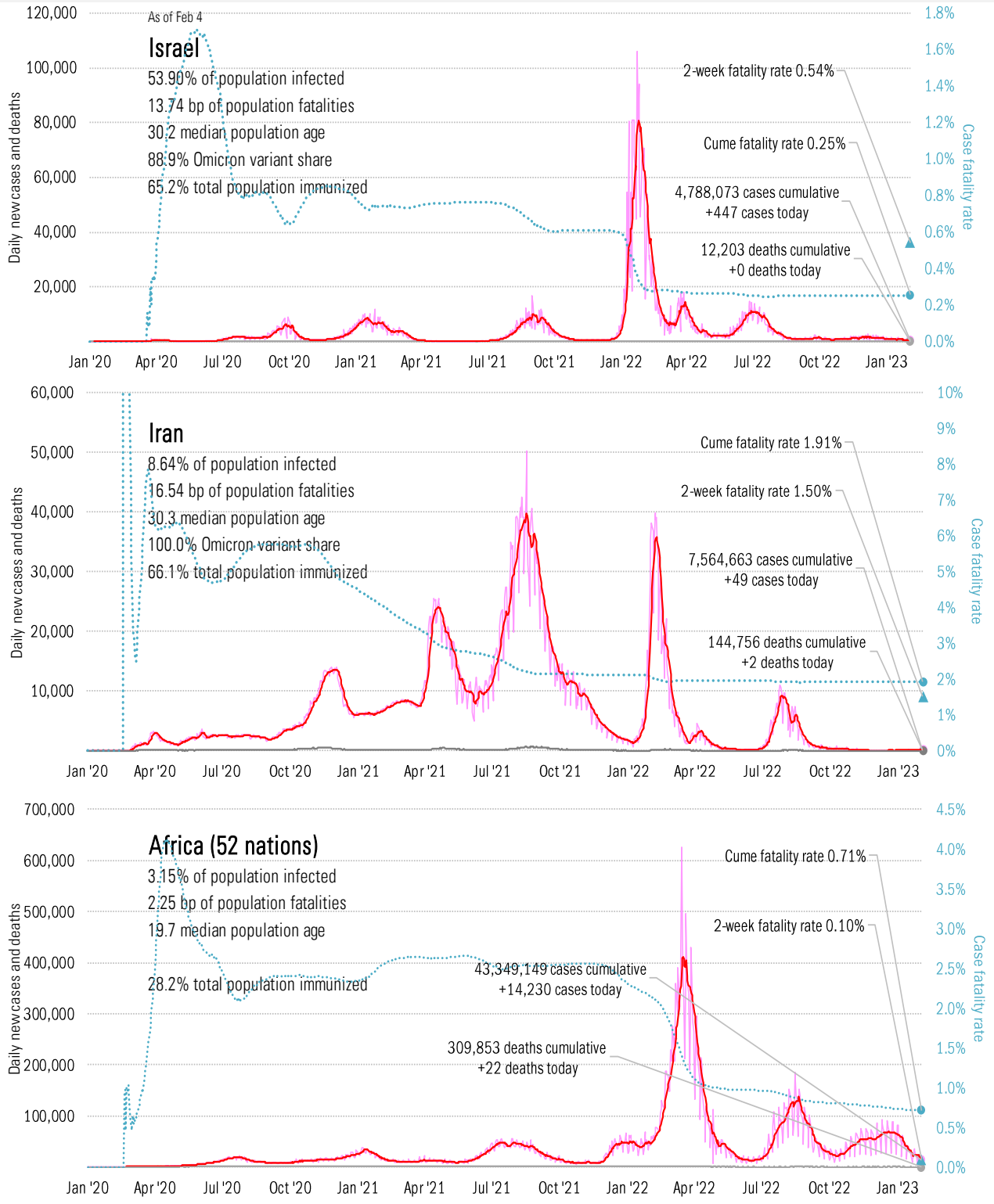
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

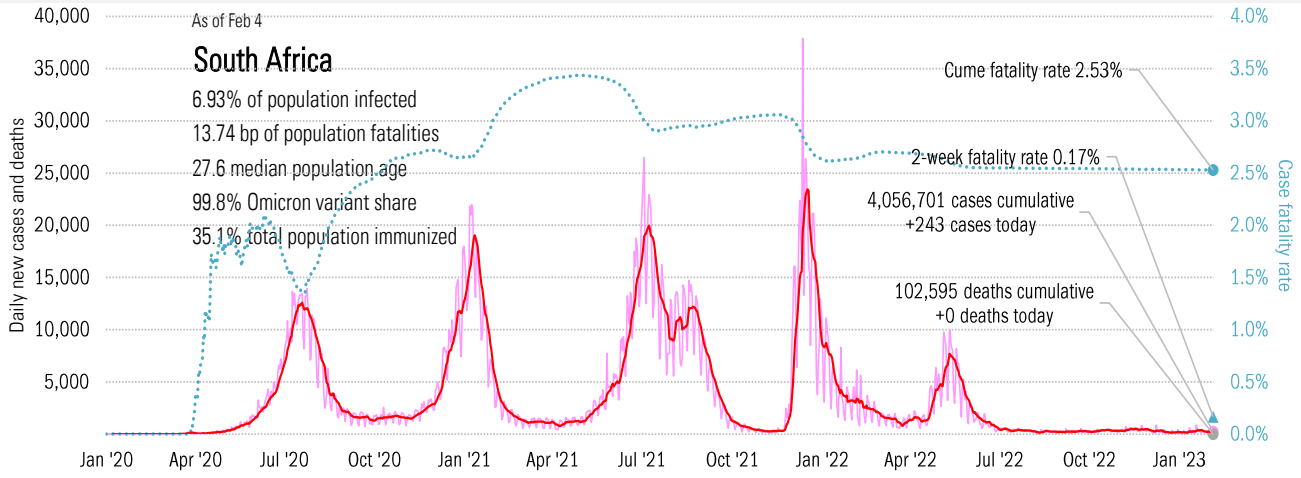
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations