Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

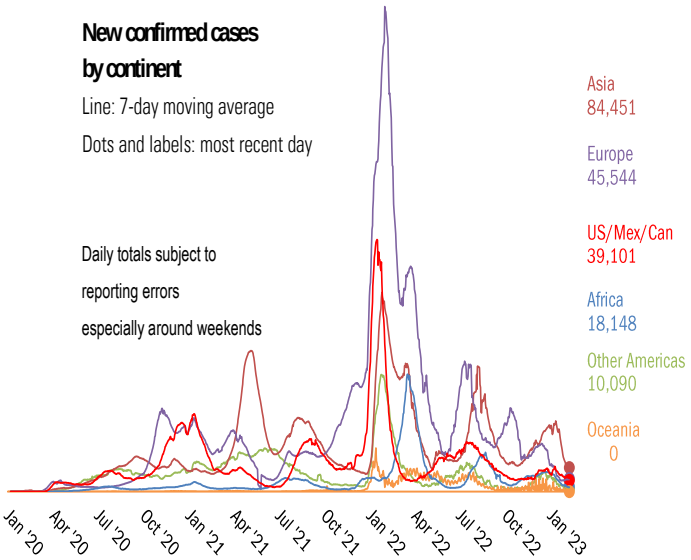
Wednesday, February 8, 2023

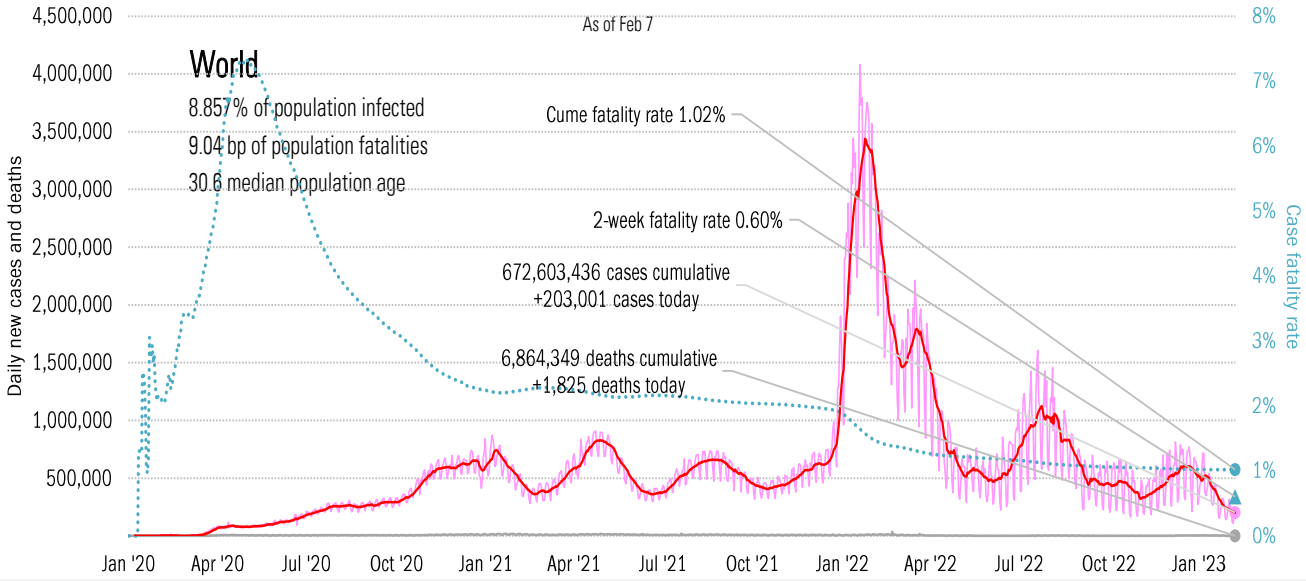
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries (see China note page 14)

New cases		New Deaths	
Japan	44,755	United States	797
United States	42,542	China	468
Taiwan*	23,379	Japan	161
Korea, South	17,934	Germany	107
China	14,106	Brazil	94
Brazil	9,217	Italy	63
Russia	7,535	Taiwan*	45
Italy	4,911	France	42
Germany	4,870	Russia	42
Costa Rica	4,201	Spain	40





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

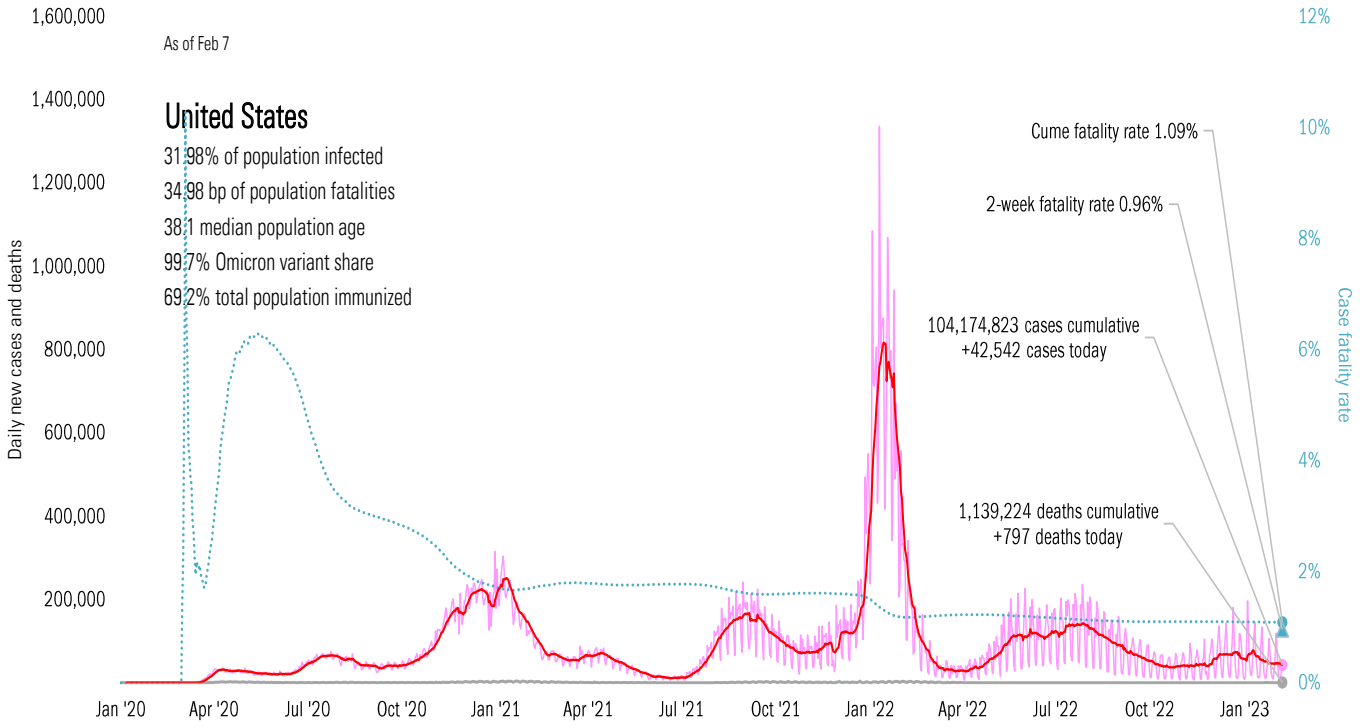
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	5,700	MI	119	PA	187	CA	12,004,743	CA	100,033	TX	583,938	RI	88%	RI	87%
SC	5,588	FL	112	KS	19	TX	8,375,763	TX	92,733	CA	560,421	DE	84%	TX	87%
CA	2,171	SC	104	MT	14	FL	7,483,857	FL	85,710	FL	528,532	MA	84%	AL	84%
NC	1,892	NY	58	WI	78	NY	6,734,545	NY	76,645	NY	350,125	WA	82%	NC	81%
NY	1,805	MO	53	NE	13	IL	4,029,905	PA	49,791	OH	241,895	DC	82%	MA	80%
NJ	1,682	VA	41	SD	15	PA	3,479,345	GA	42,054	GA	240,179	MD	81%	NH	80%
MD	1,615	CA	30	OH	119	NC	3,425,789	MI	41,809	PA	227,812	AK	81%	NM	80%
LA	1,462	MA	25	PR	9	OH	3,356,027	OH	41,464	IL	211,208	CA	80%	AK	80%
IL	1,448	PA	23	UT	14	MI	3,036,304	IL	41,180	MI	179,109	MN	80%	DC	79%
PA	1,349	GA	20	WV	21	GA	3,035,874	NJ	35,838	NJ	160,893	MO	80%	AR	79%
	24,713		585		489		54,962,152		607,257		3,284,112				
All states	42,542		797		3,301	All states	104,174,823		1,139,224		5,951,749	All states	70%		67%
Top ten	58%		73%		15%	Top ten	54%		55%		55%	Median	75%		74%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
CA	-8,541	WV	-8	NJ	-57
NJ	-3,881	WA	-8	VA	-33
NY	-3,141	CO	-7	LA	-26
WI	-543	NJ	-3	AZ	-24
WV	-287	TX	-3	CA	-23



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

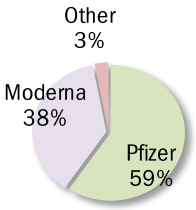
Rolling out the vaccines in the US and the world

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

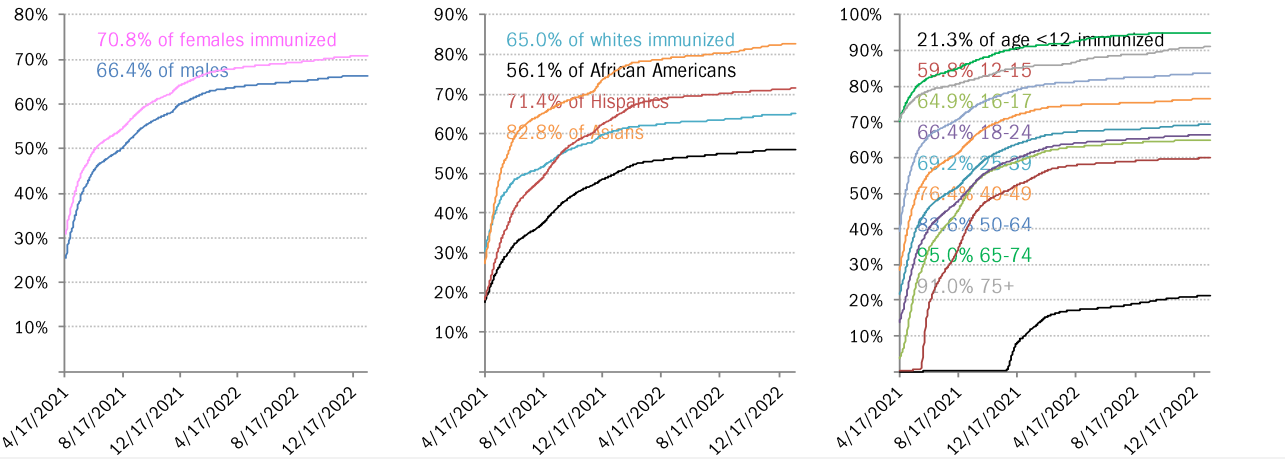
Best
Middle
Worst

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%

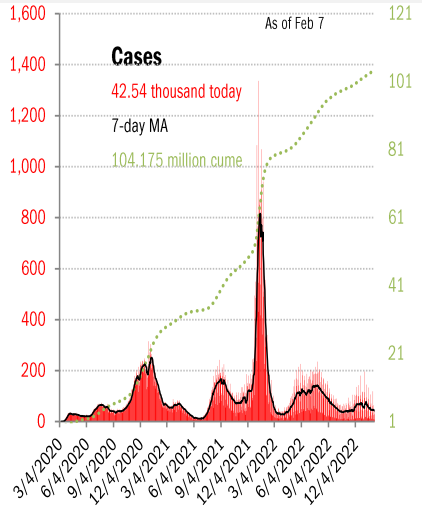
AK
72.9%
65.1%

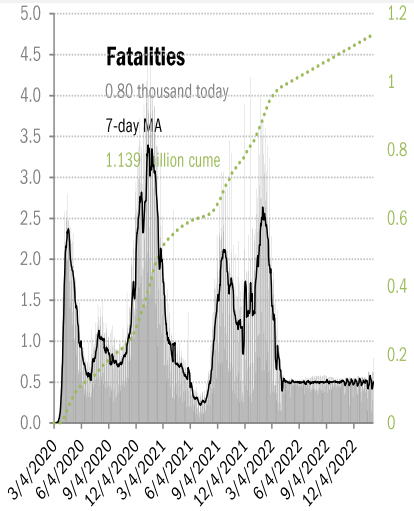
The demographics of US vaccination

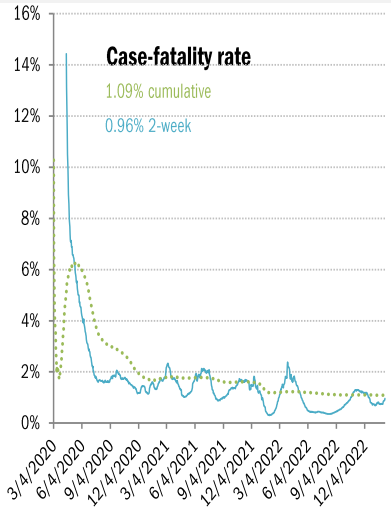


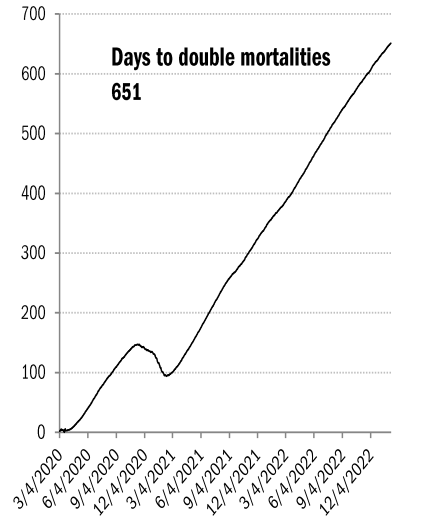
Source: CDC, CDC, Our World in Data, TrendMacro calculations

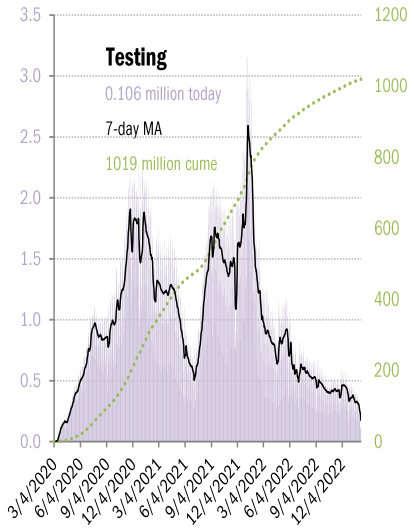
US deep-dive

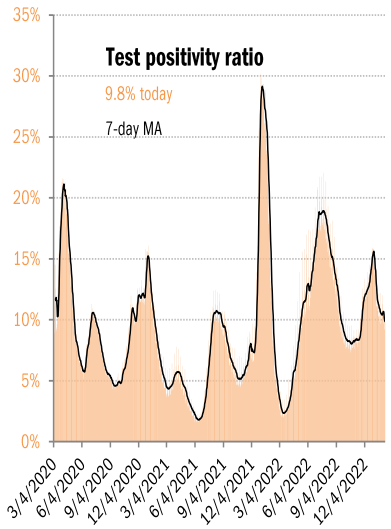


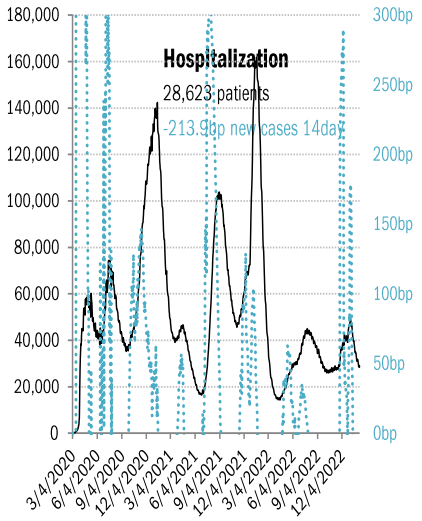


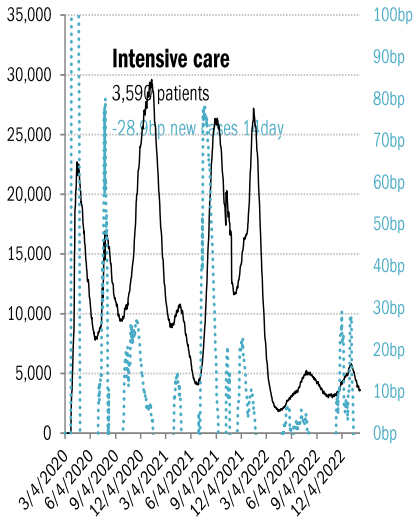


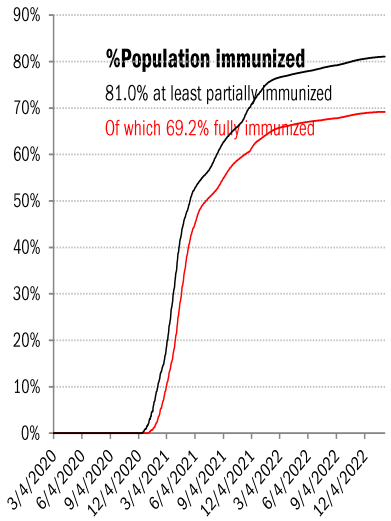












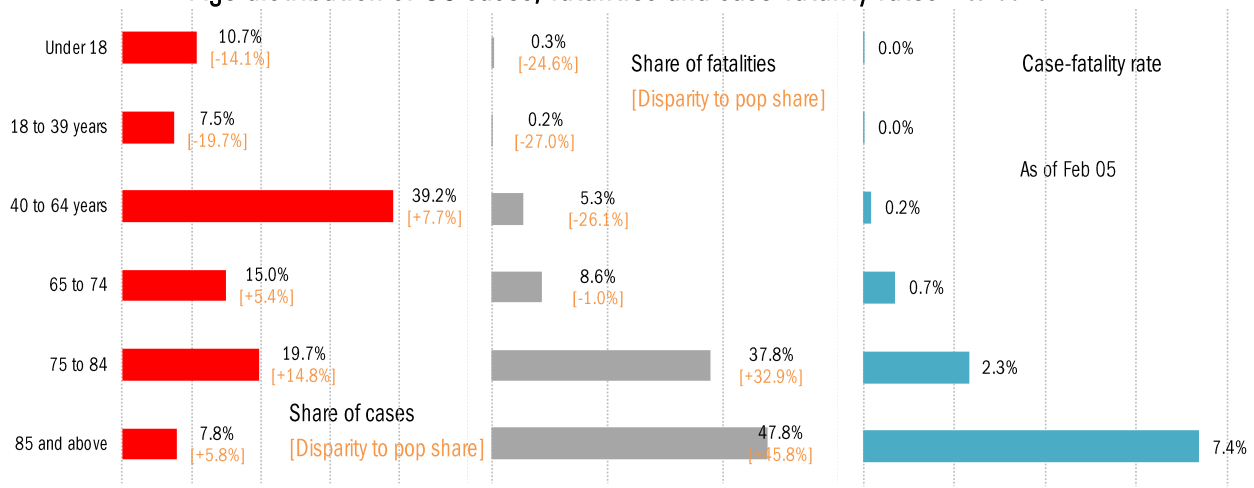
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

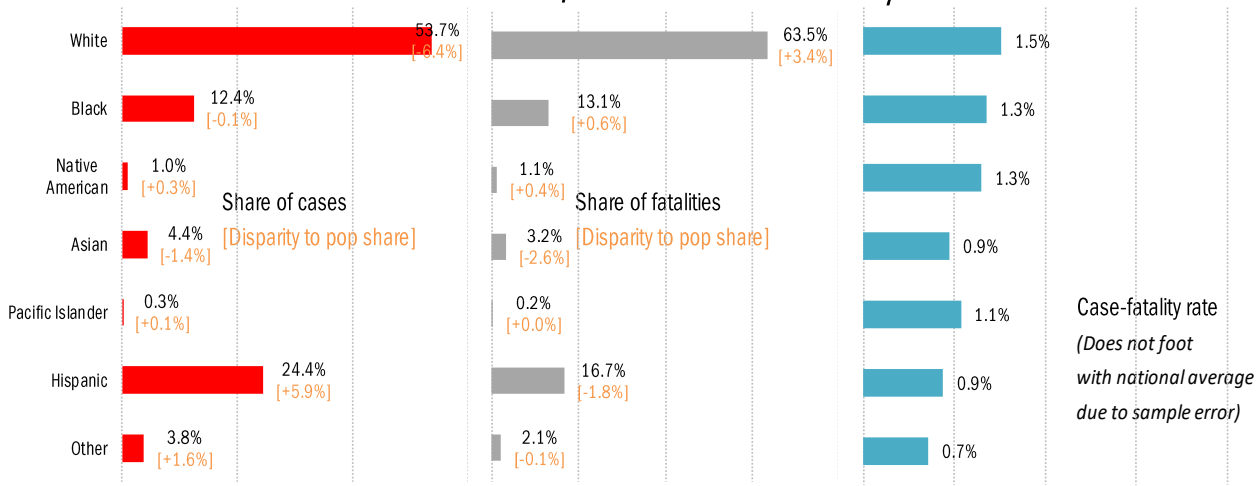
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



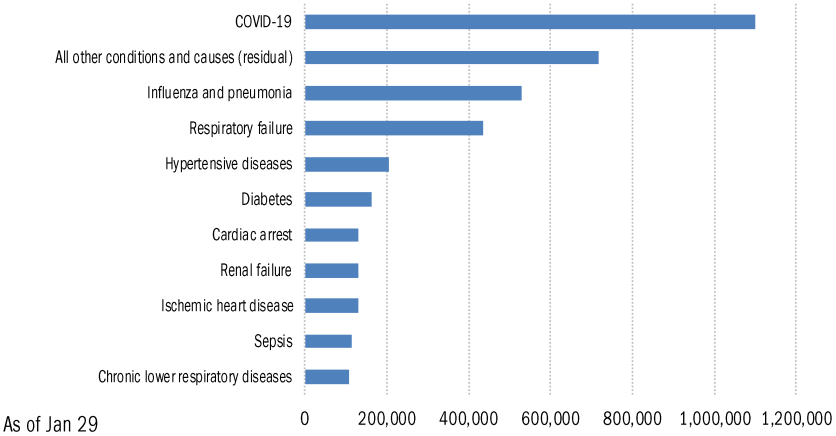
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jan 29

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

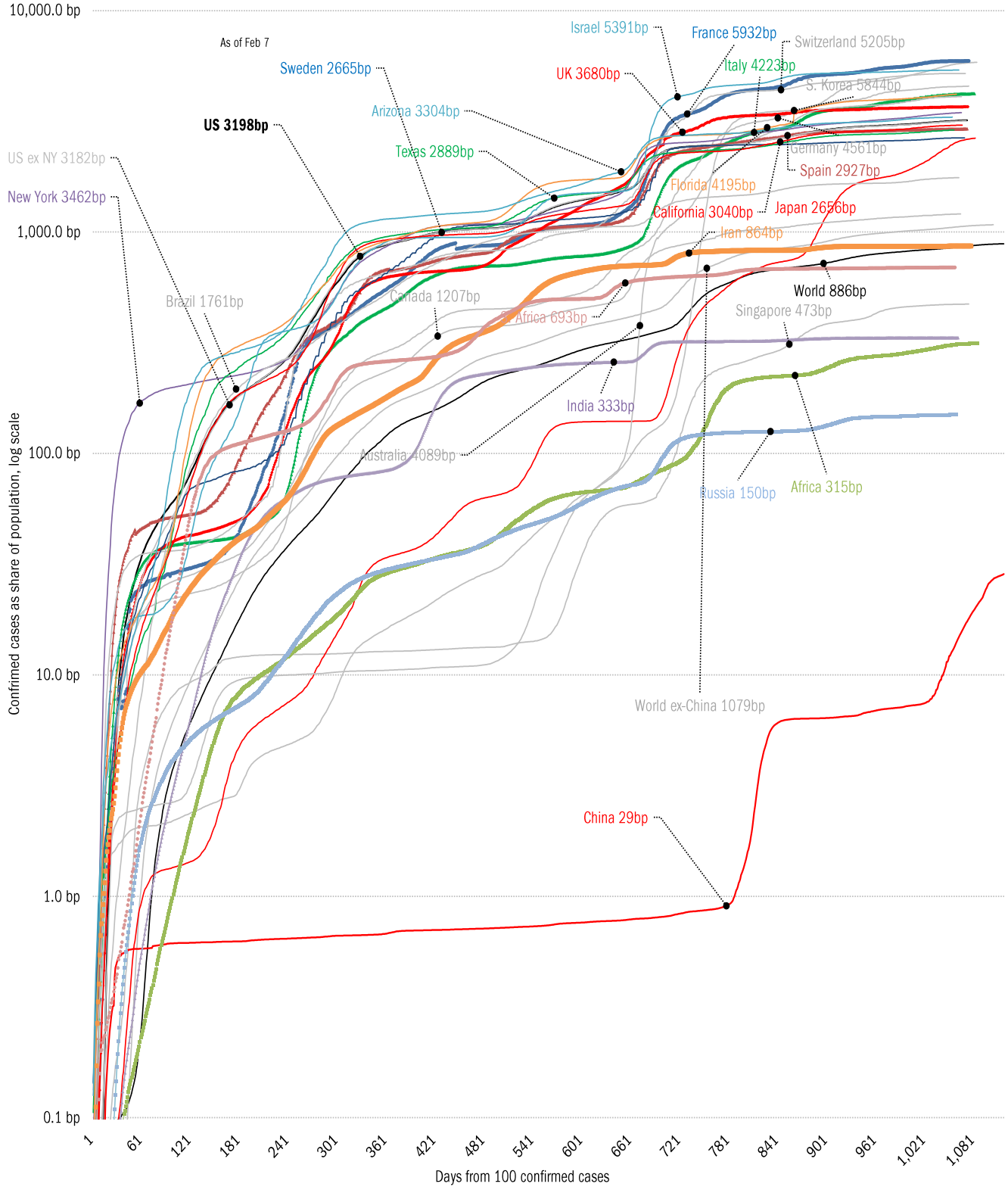
Questions for a COVID-19 Commission
Jay Bhattacharya et al.
Norfolk Group
February 7, 2023

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

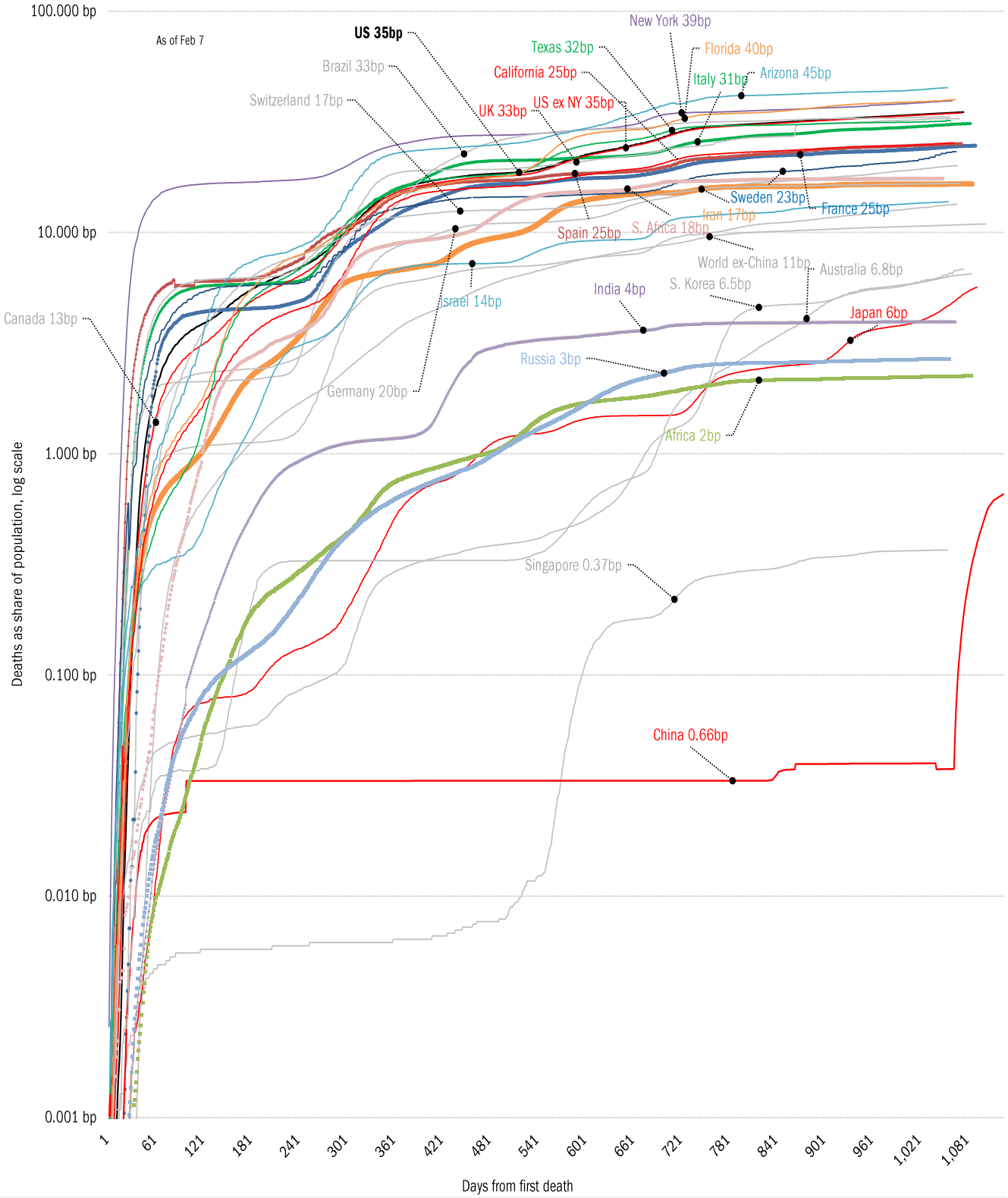
Share of infected population from first day with 100 confirmed cases, log scale



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

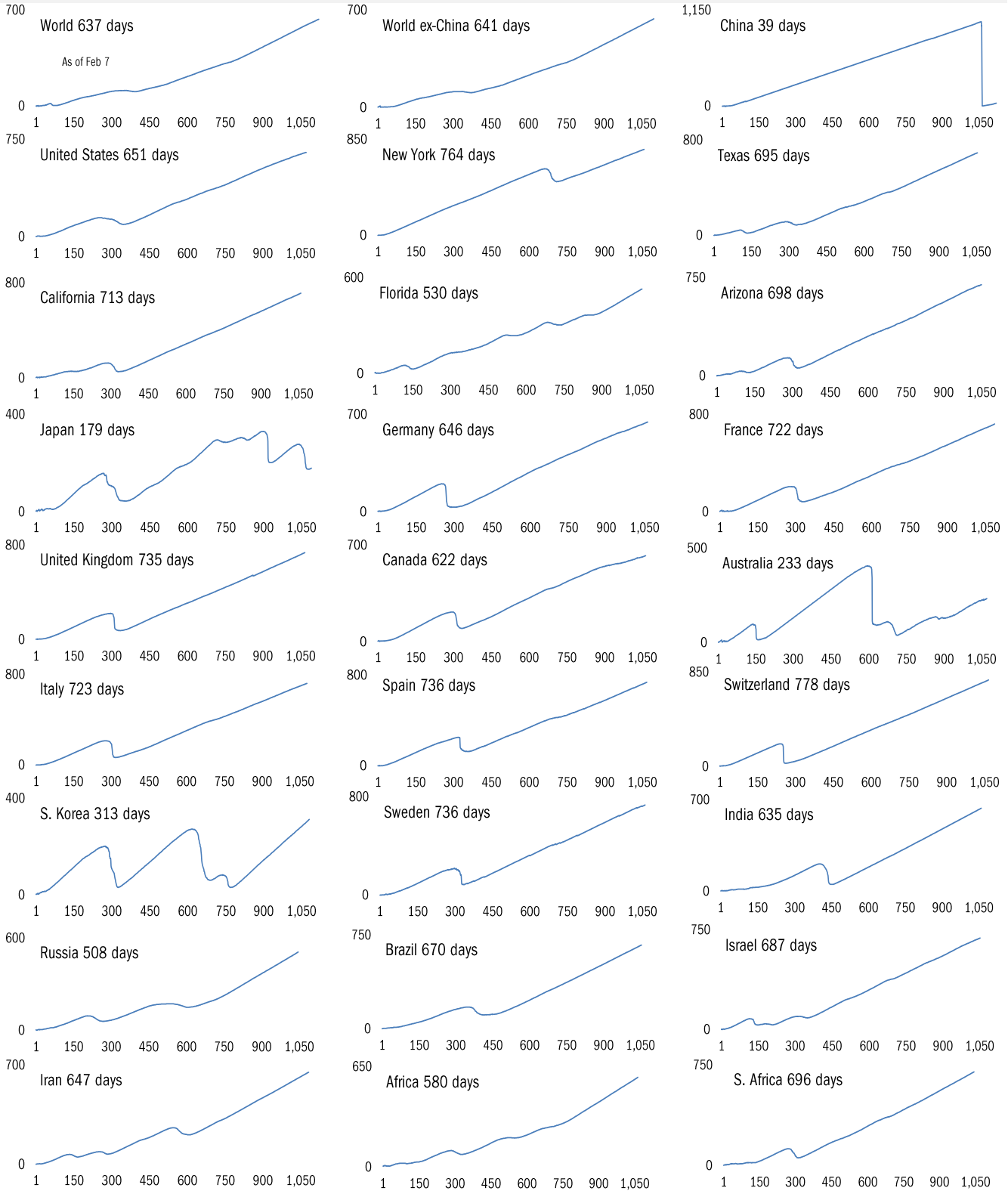


Source: Johns Hopkins, TrendMacro calculations

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

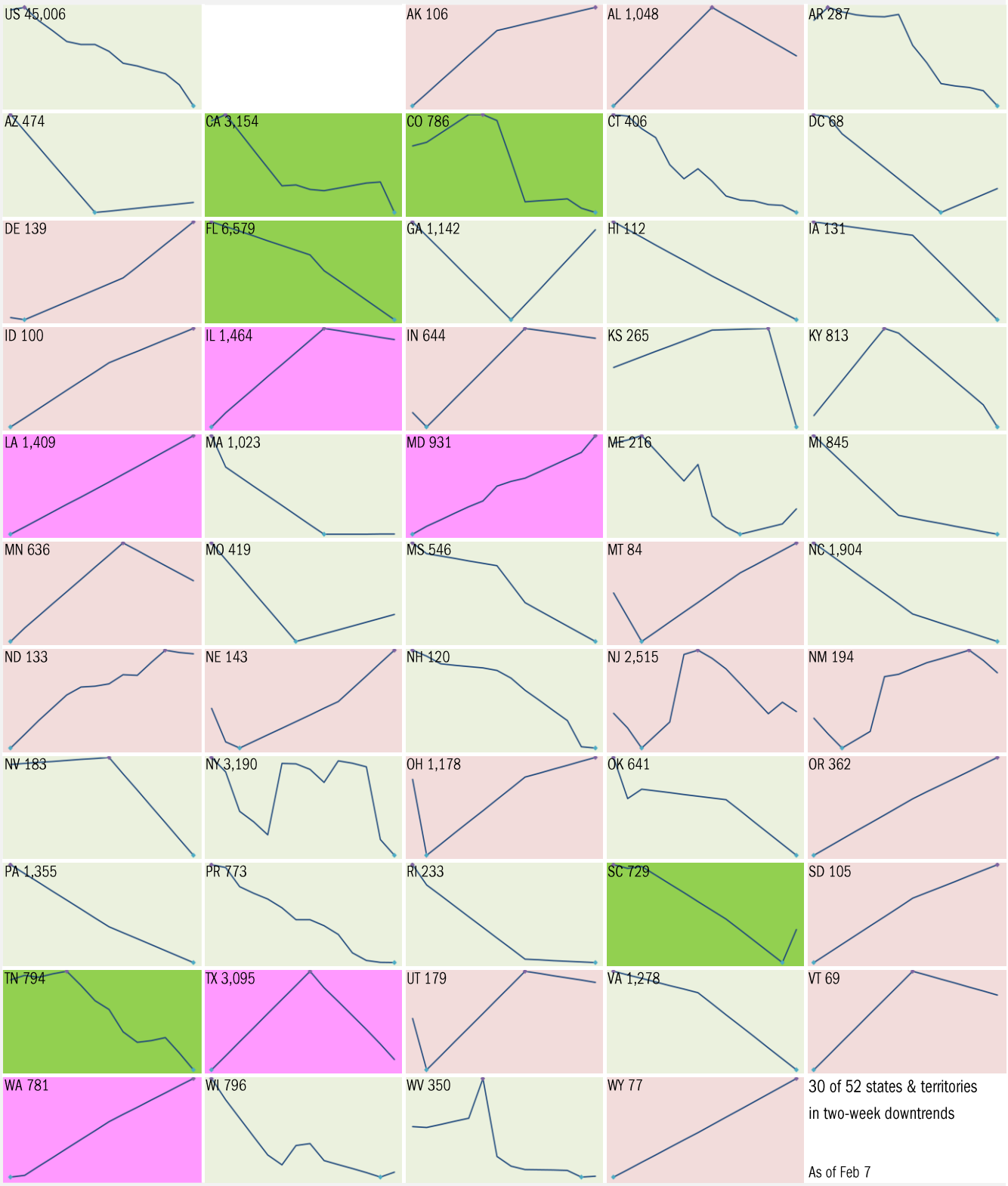


Source: Johns Hopkins, TrendMacro calculations

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

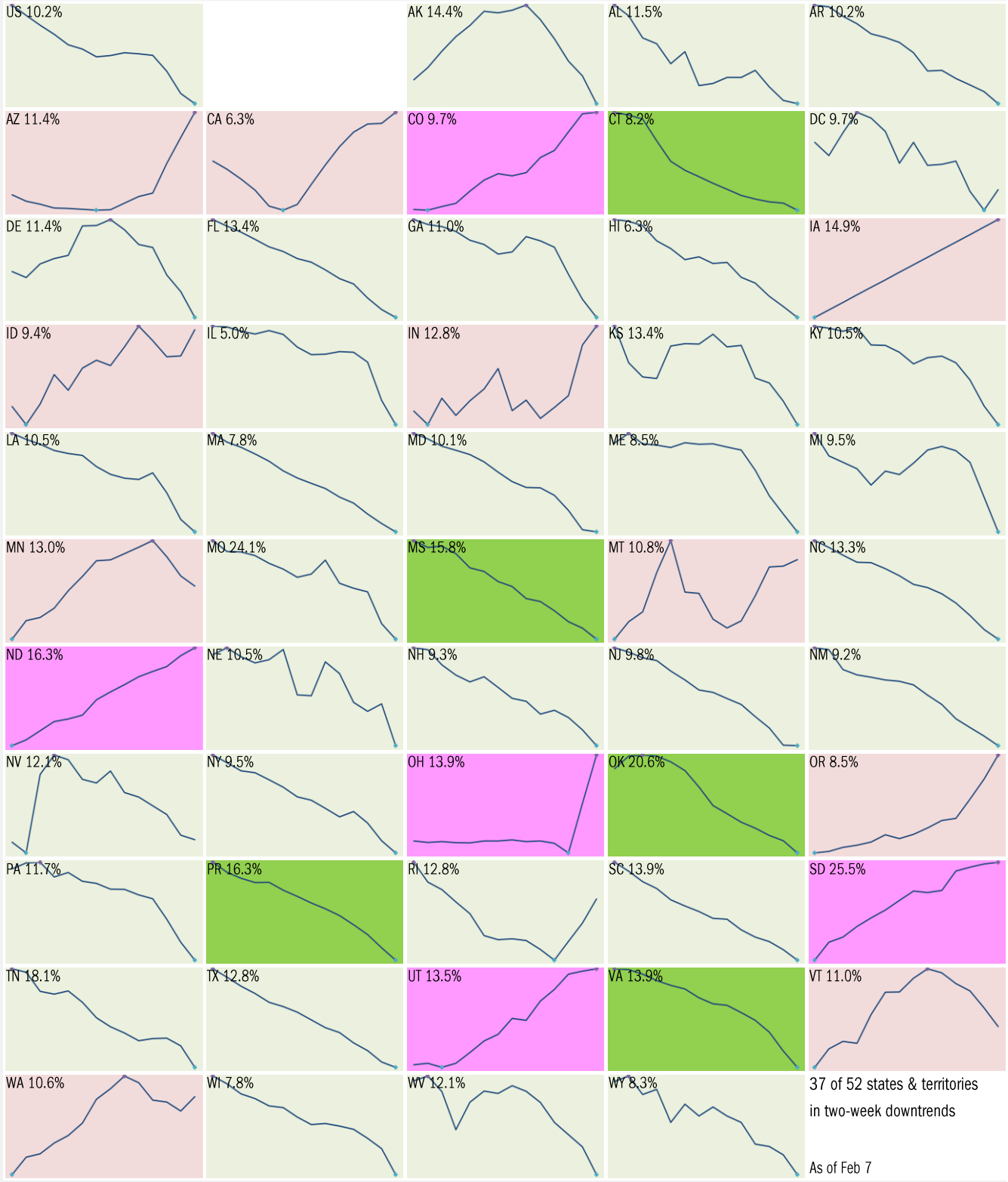


Source: Johns Hopkins, TrendMacro calculations

14-day trajectory in test-positivity ratio

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

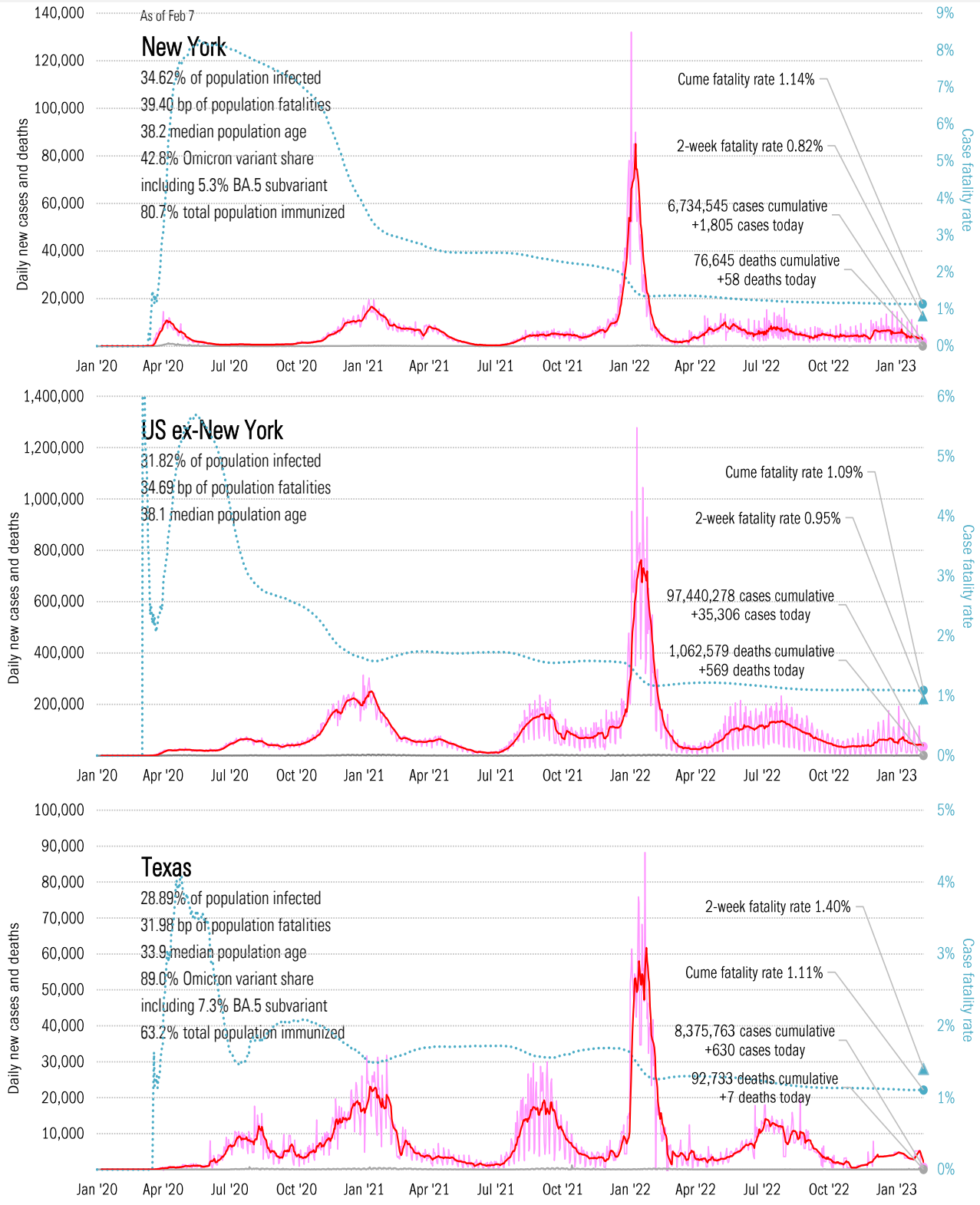
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

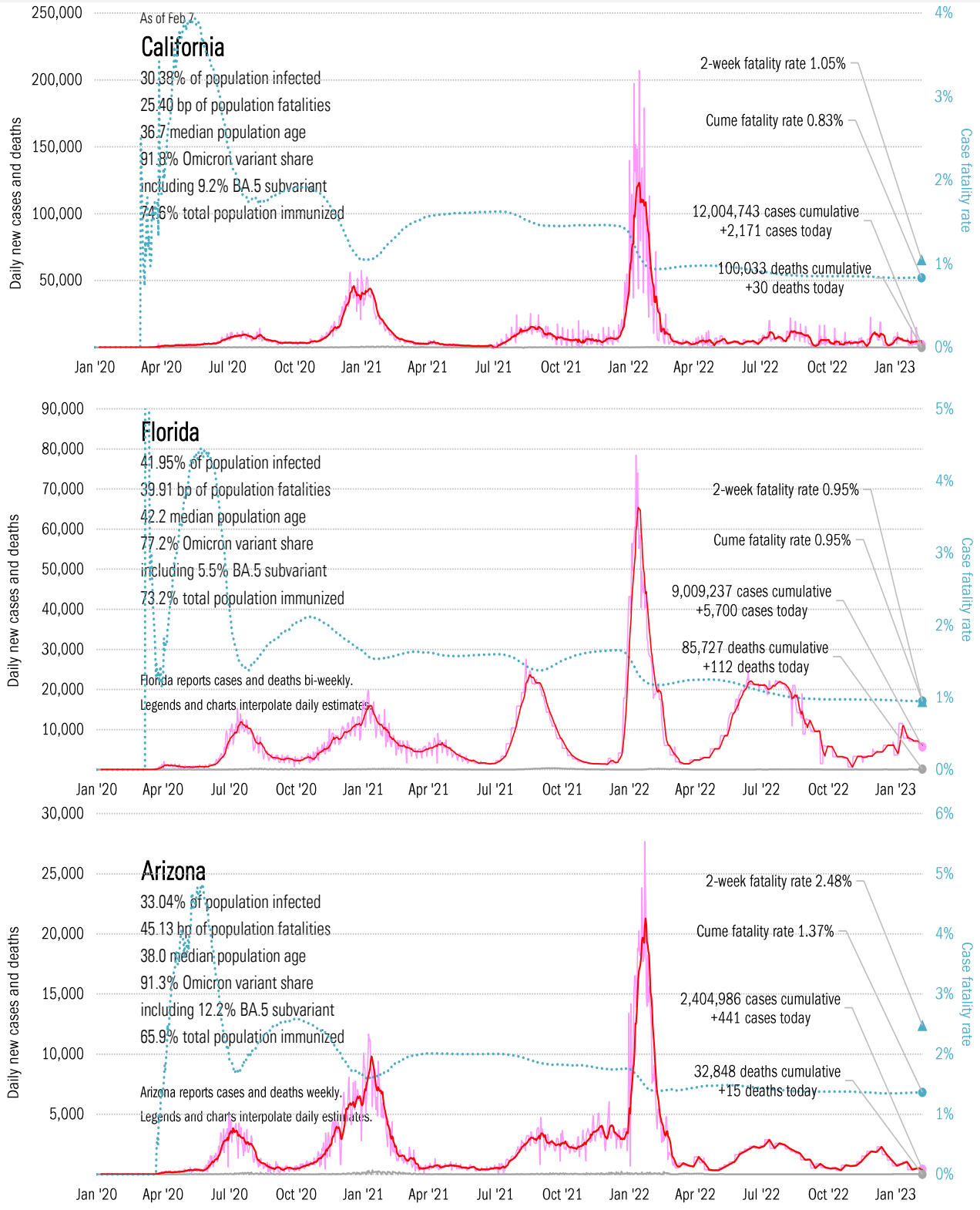
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

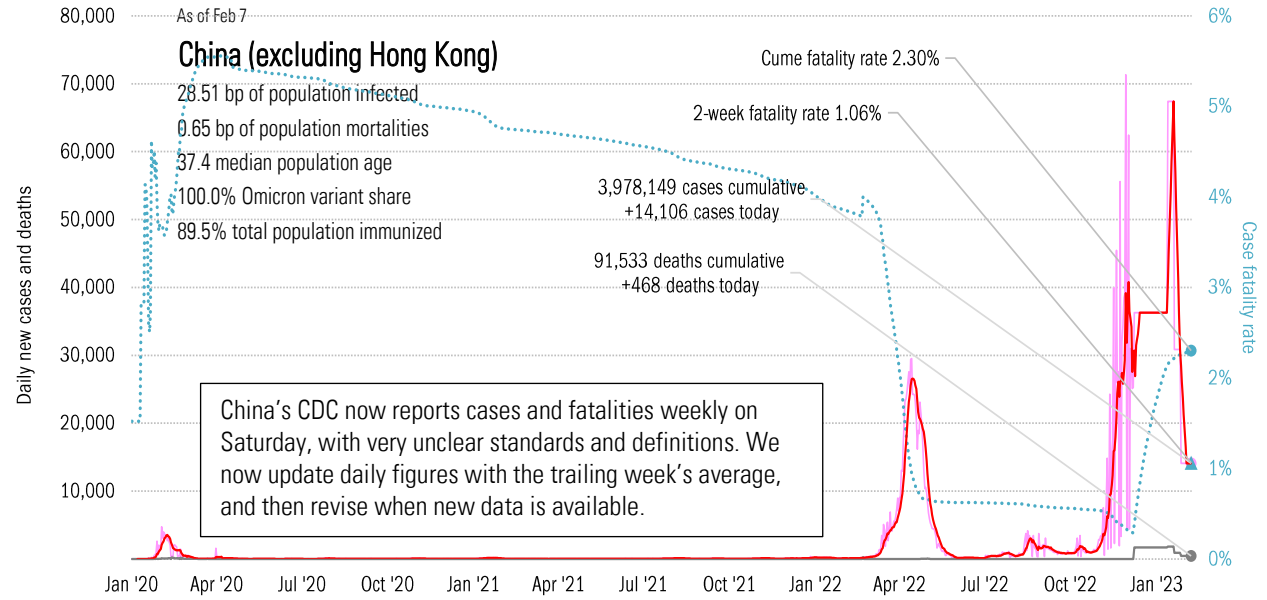
Cases: 7-day average and daily Deaths: Daily

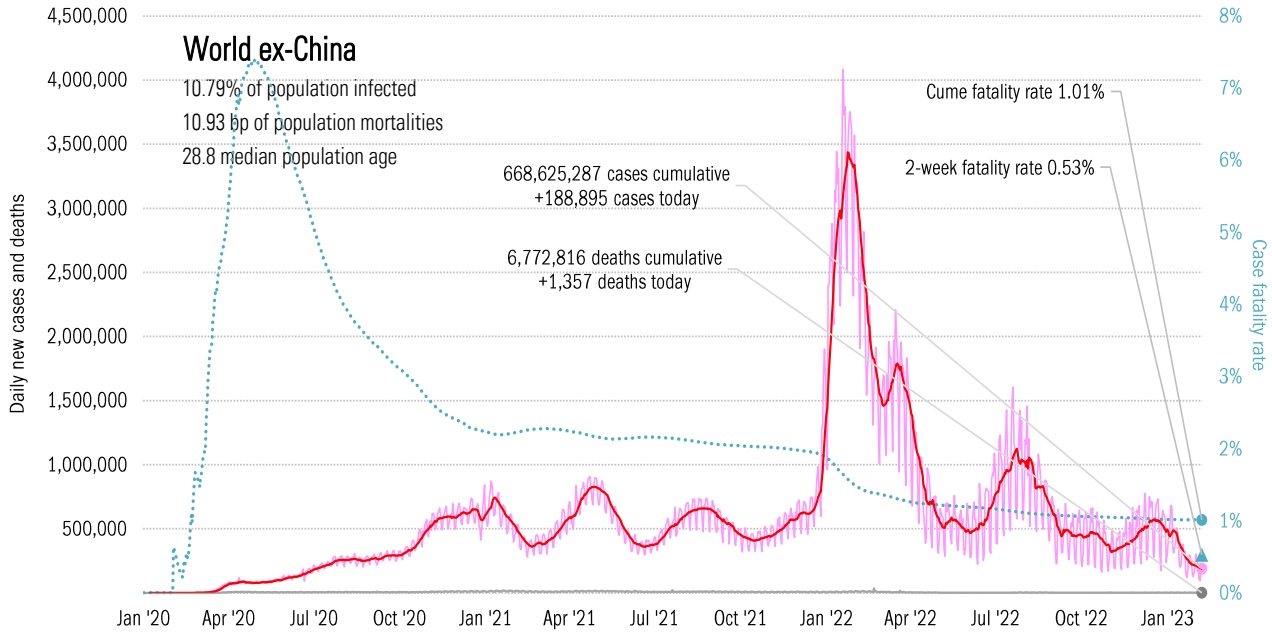


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

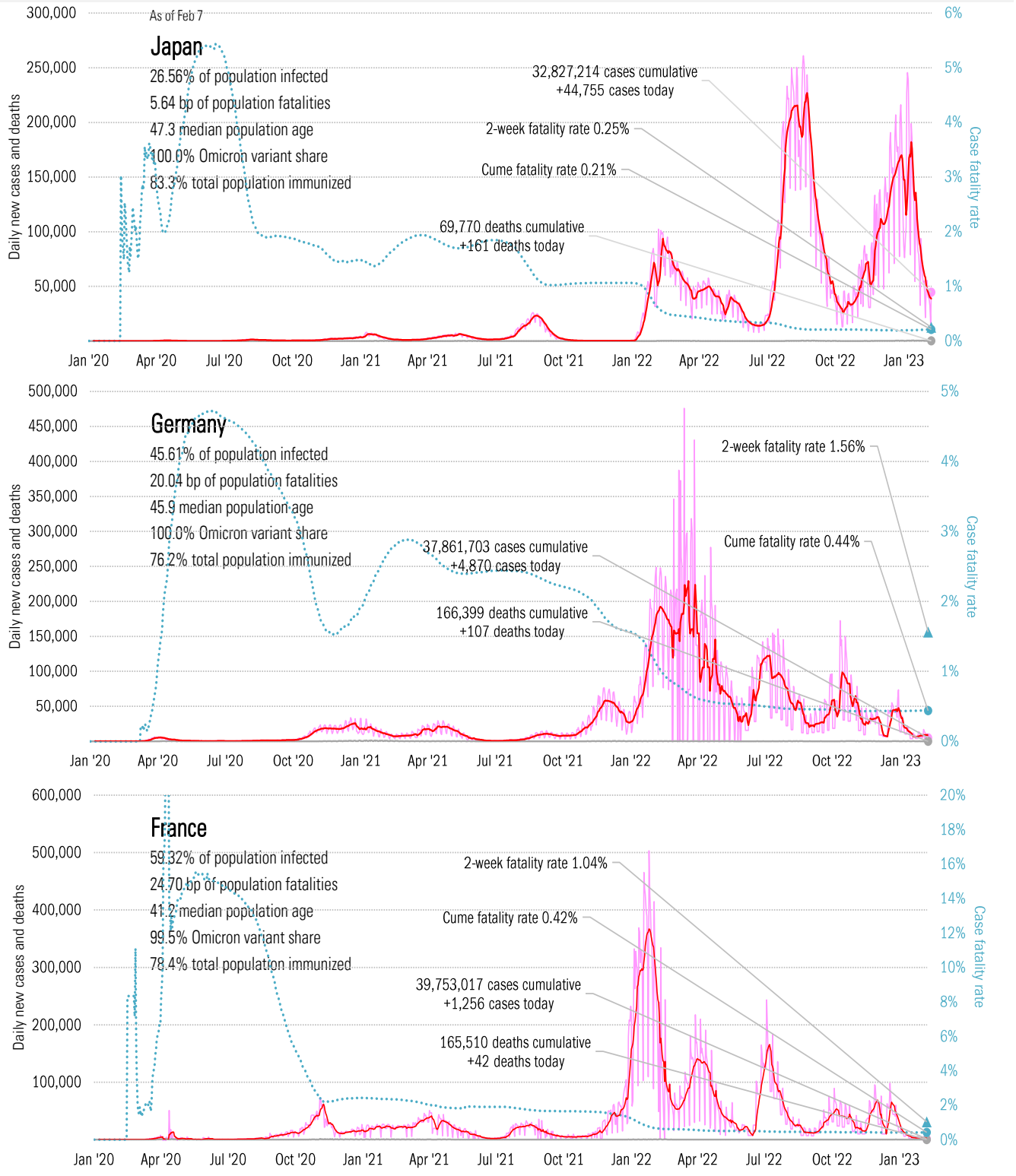




Source: Johns Hopkins, China CDC, TrendMacro calculations

Impact in the largest economies

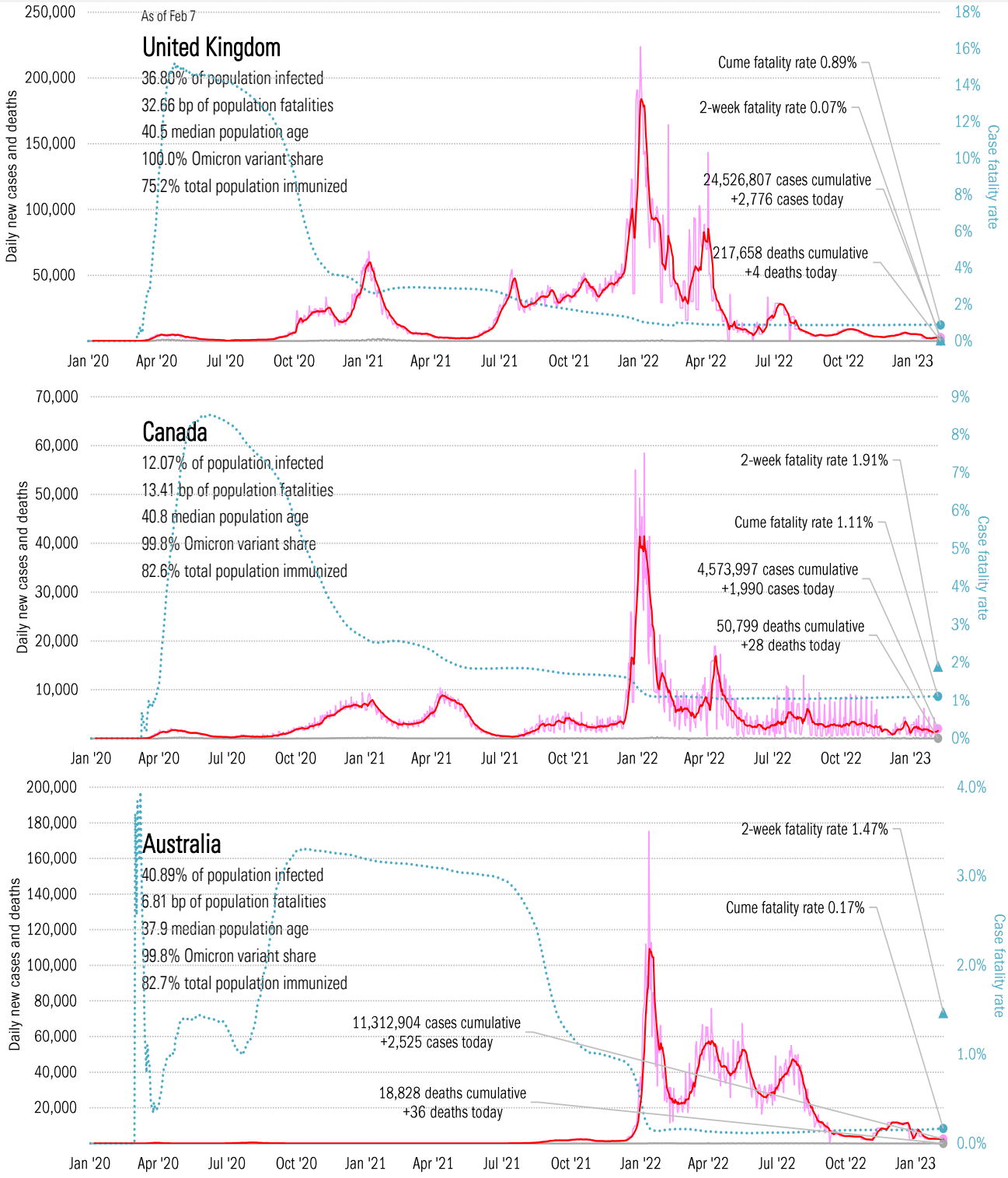
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

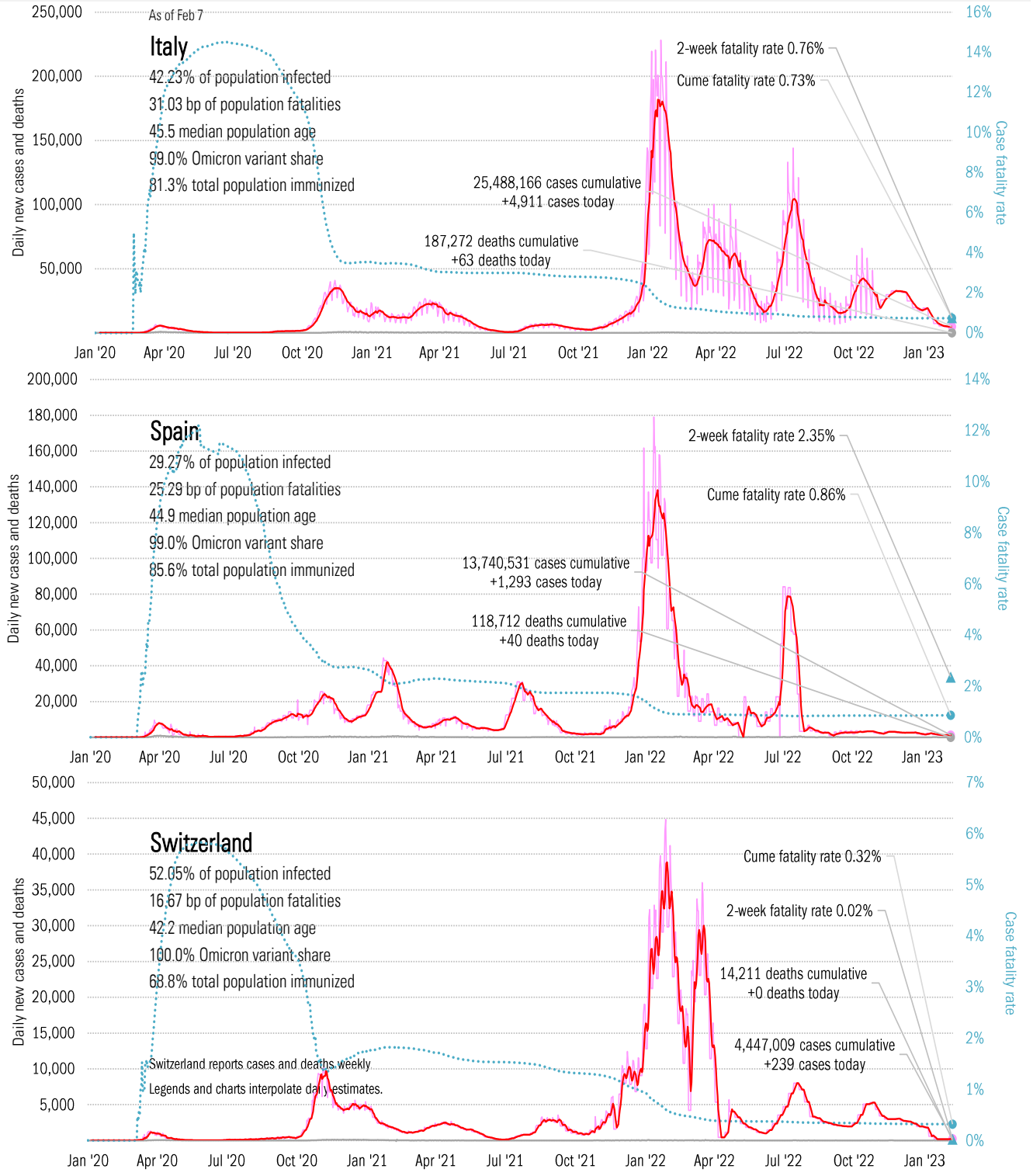
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

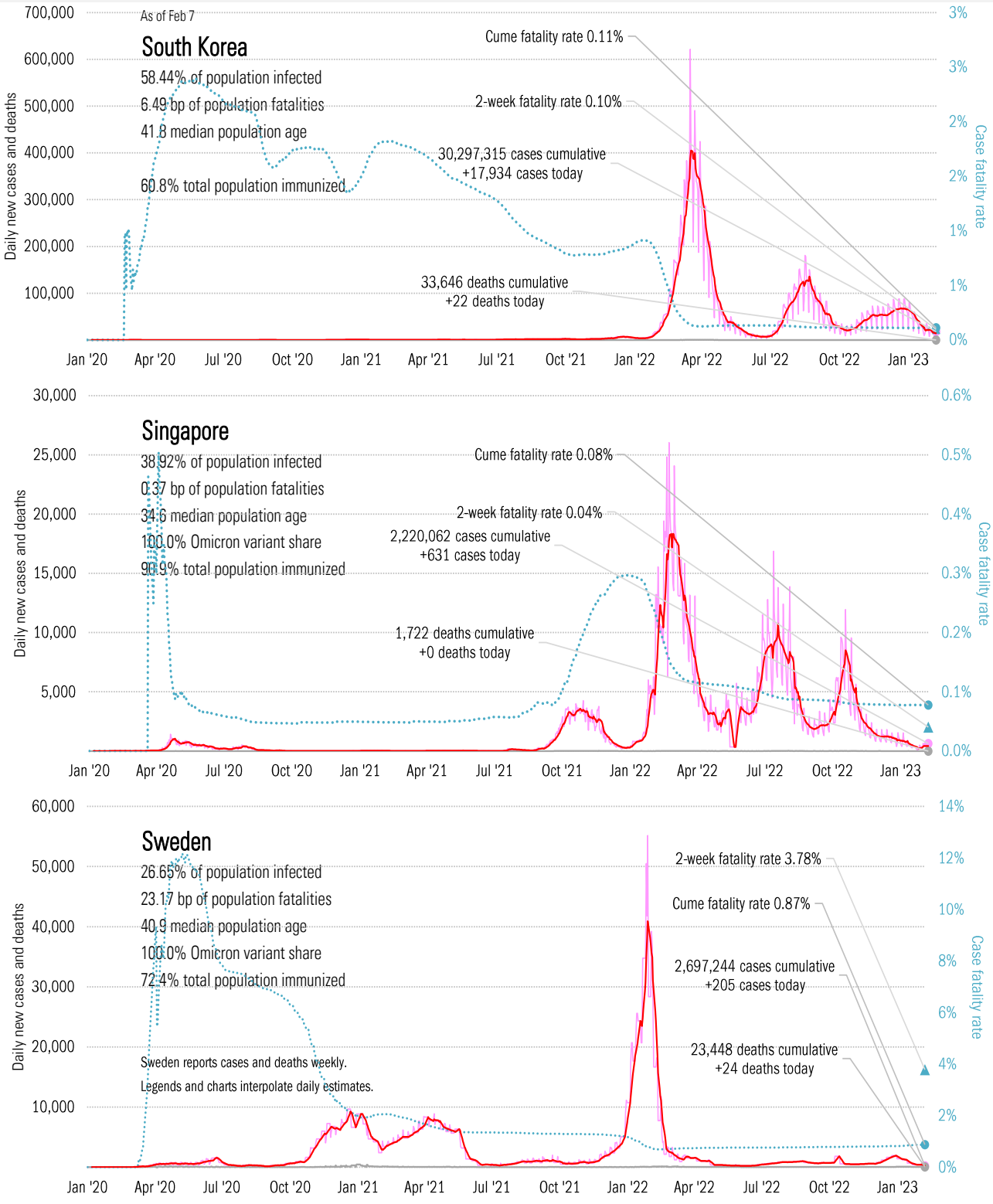
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

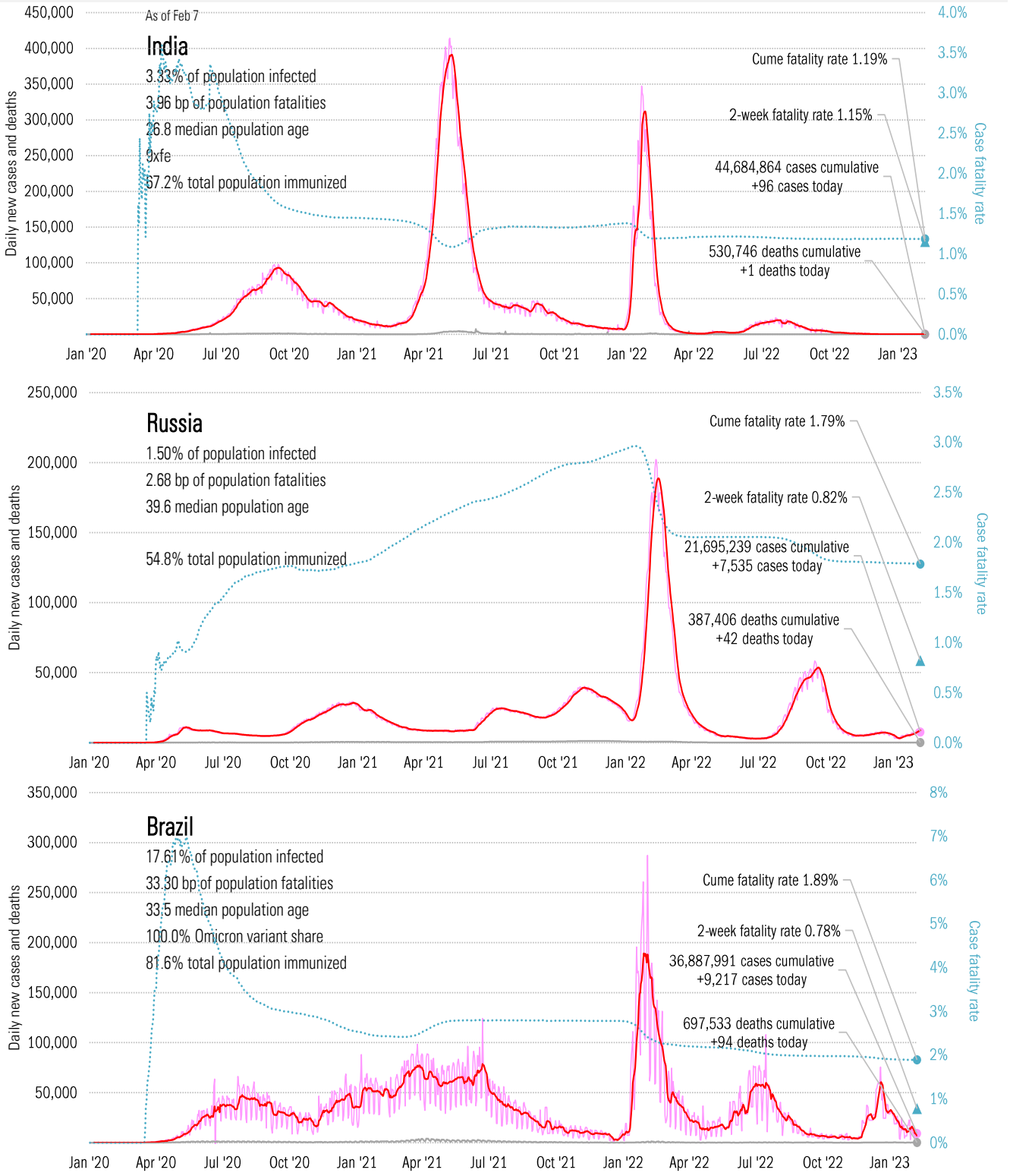
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

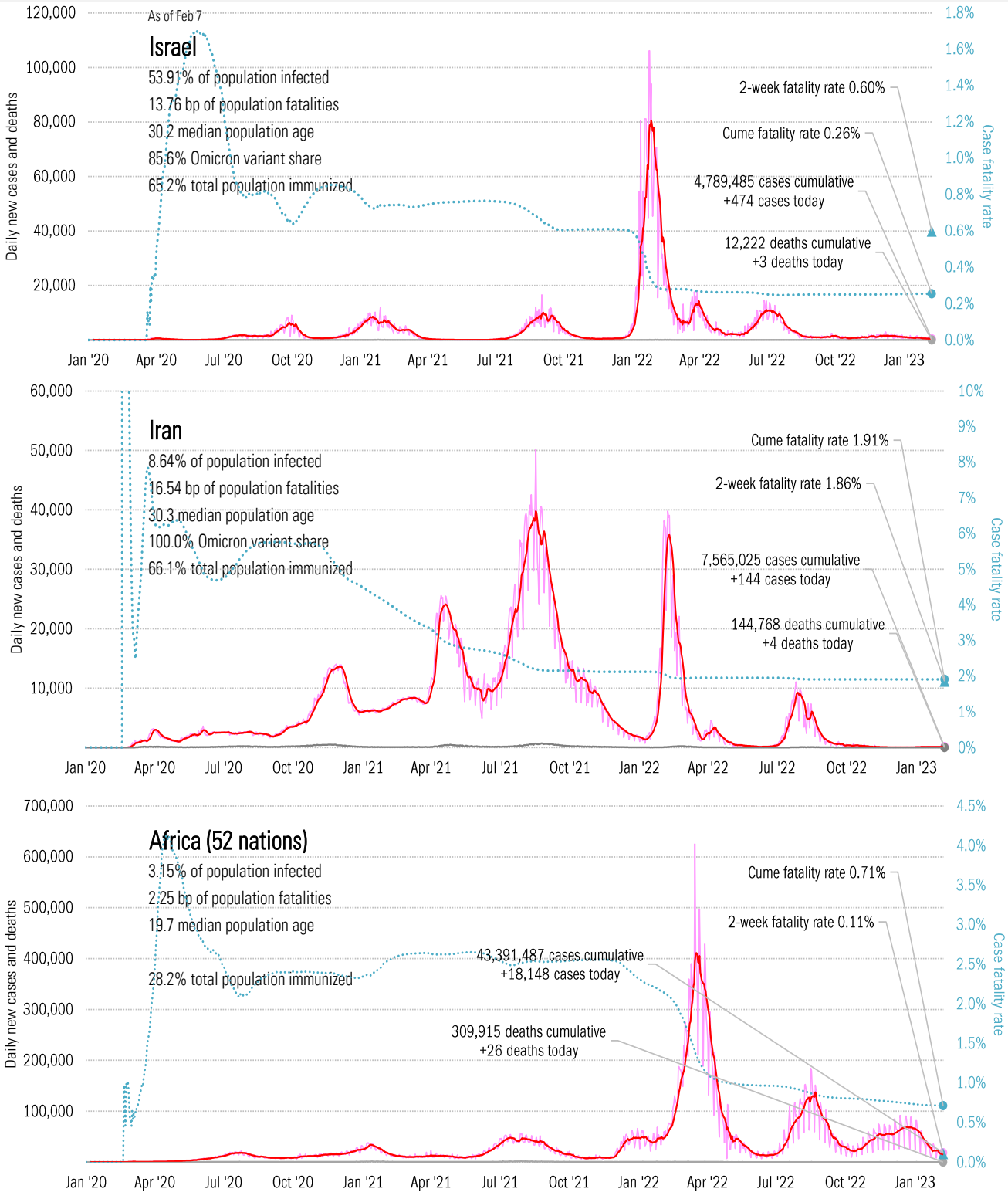
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

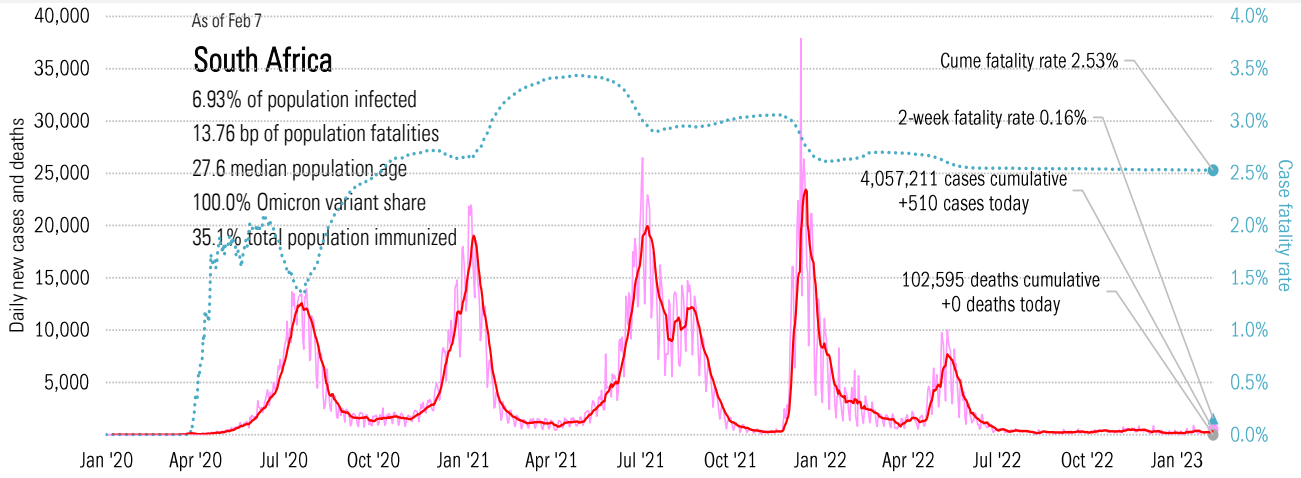
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations