Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

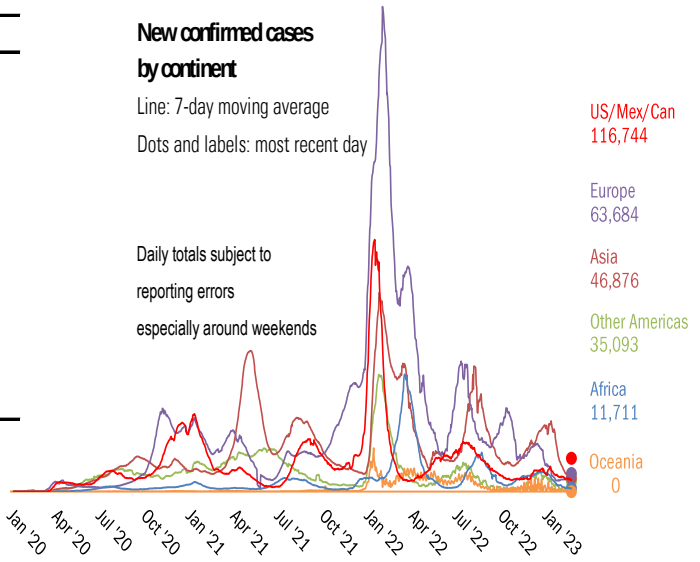
Thursday, February 23, 2023

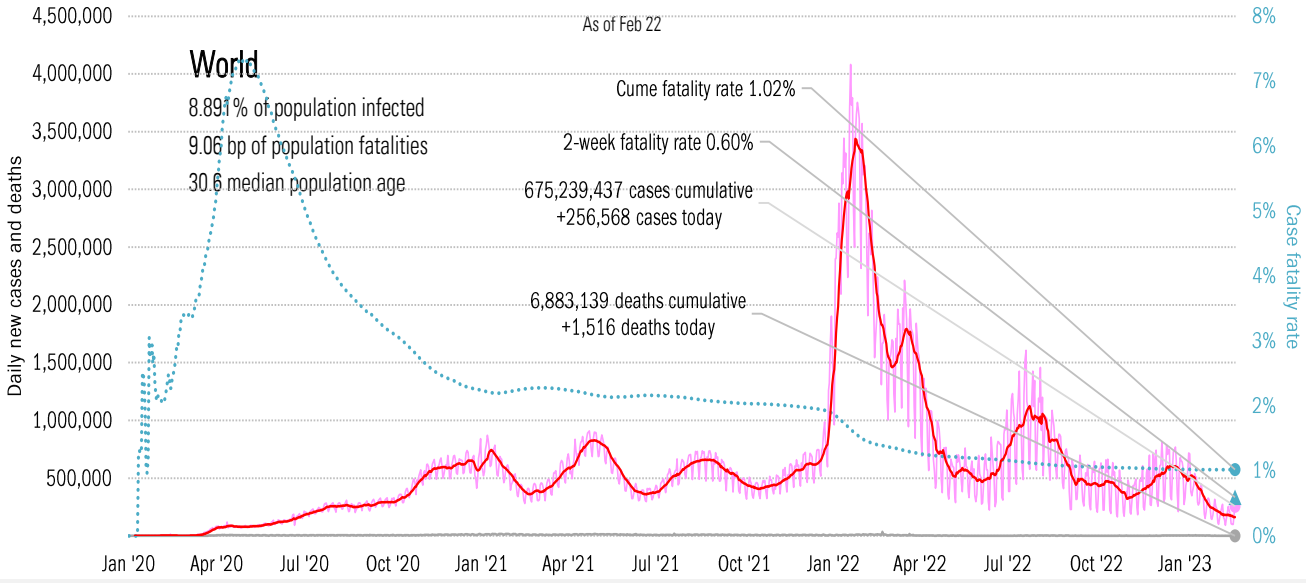
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries (see China note page 14)

New cases		New Deaths	
United States	61,174	United States	584
Italy	28,347	Japan	114
Germany	25,038	Germany	113
Japan	18,654	Taiwan*	64
Taiwan*	16,481	Australia	63
Russia	13,909	Brazil	47
Korea, South	10,845	Italy	43
Brazil	9,646	France	38
China	8,847	Mexico	35
Austria	7,479	Russia	33
	200,420		1,134
World	256,568	World	1,516
Top ten	78%	Top ten	75%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

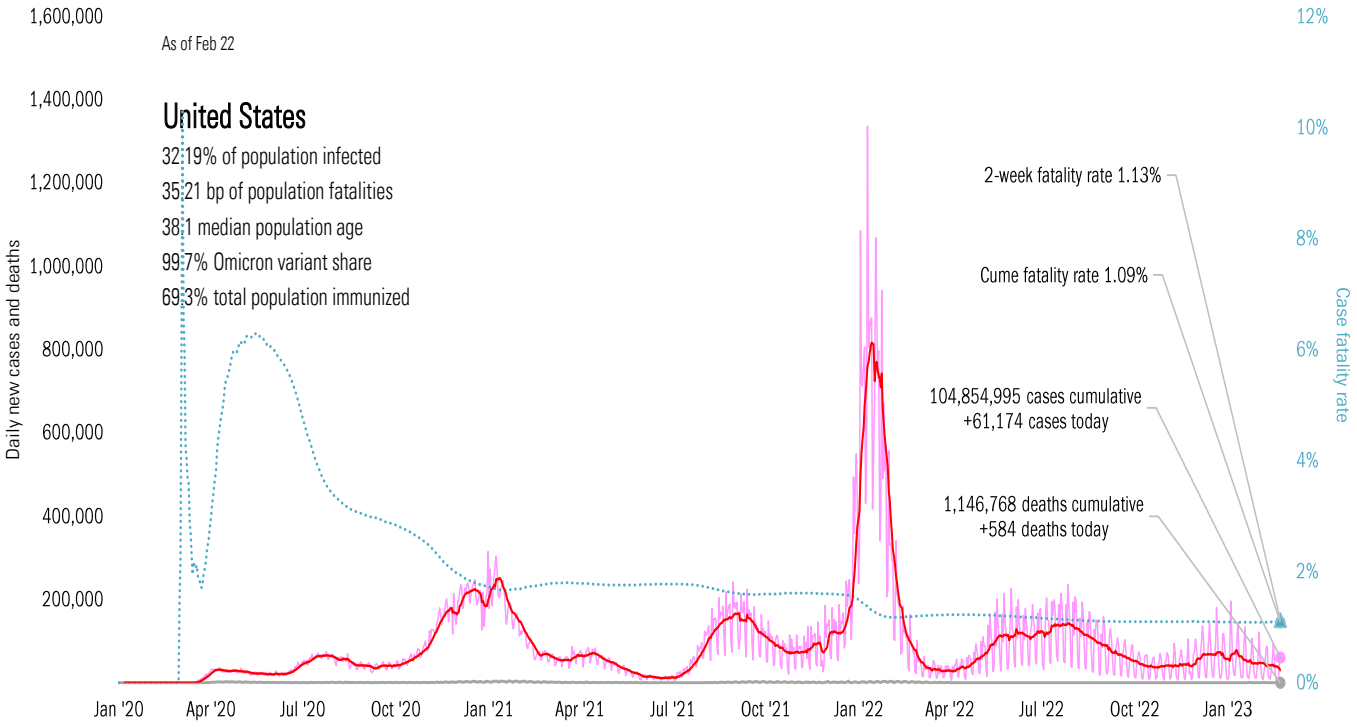
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TX	13,853	PA	113	FL	262	CA	12,059,365	CA	100,585	TX	588,439	RI	87%	TX	87%
NY	11,991	FL	83	MT	29	TX	8,432,315	TX	93,155	CA	566,698	MA	85%	AL	86%
FL	4,721	OR	39	NY	304	FL	7,516,906	FL	86,294	FL	532,378	MN	85%	VT	85%
CA	4,041	CA	38	CO	42	NY	6,770,551	NY	77,027	NY	354,184	NV	84%	NM	82%
SC	2,925	NY	37	DC	15	IL	4,050,952	PA	50,168	OH	243,950	DE	84%	NC	82%
GA	1,748	MA	18	SD	19	PA	3,512,137	GA	42,332	GA	242,088	MD	83%	MO	81%
IL	1,545	AZ	15	MI	107	NC	3,459,600	MI	41,957	PA	230,362	MO	83%	OK	81%
PA	1,431	TX	15	RI	20	OH	3,373,859	OH	41,615	IL	213,455	WA	82%	NV	81%
NC	1,375	MI	13	ID	21	GA	3,061,485	IL	41,335	MI	180,513	DC	82%	RI	80%
AR	1,331	GA	12	NC	104	MI	3,049,739	NJ	35,940	NJ	163,020	NH	82%	DC	80%
	44,962		384		923		55,286,909		610,408		3,315,087				
All states	61,174		584		3,385	All states	104,854,995		1,146,768		6,005,977	All states	70%		67%
Top ten	73%		66%		27%	Top ten	53%		55%		55%	Median	78%		75%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
MO	-1,187	MO	-36	CA	-247
CO	-1,043	CA	-34	GA	-70
NE	-185	DE	-19	IL	-61
AK	0	OK	-9	MA	-46
AL	0	WI	-5	KY	-44



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

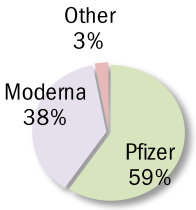
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	687,757,074				+0.100 million
				Of which boosters:	+0.069 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	277,766,983	83%	236,754,227	71%	+0.014 million
Age 12 to 17	18,473,231	73%	15,810,010	62%	+0.001 million
Age 18 to 64	184,660,818	91%	156,918,716	77%	+0.008 million
Age 65 and over	61,081,851	100%	53,508,406	98%	+0.002 million

Immunity	Full	Partial
US	69.3%	81.1%
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%	84.5%
Africa	28.5%	34.7%
India	67.2%	72.5%
Brazil	81.6%	87.9%
China	89.5%	91.9%

Global data differs due to sources, timing



State
At least partial immunity as % population
Full immunity as % population

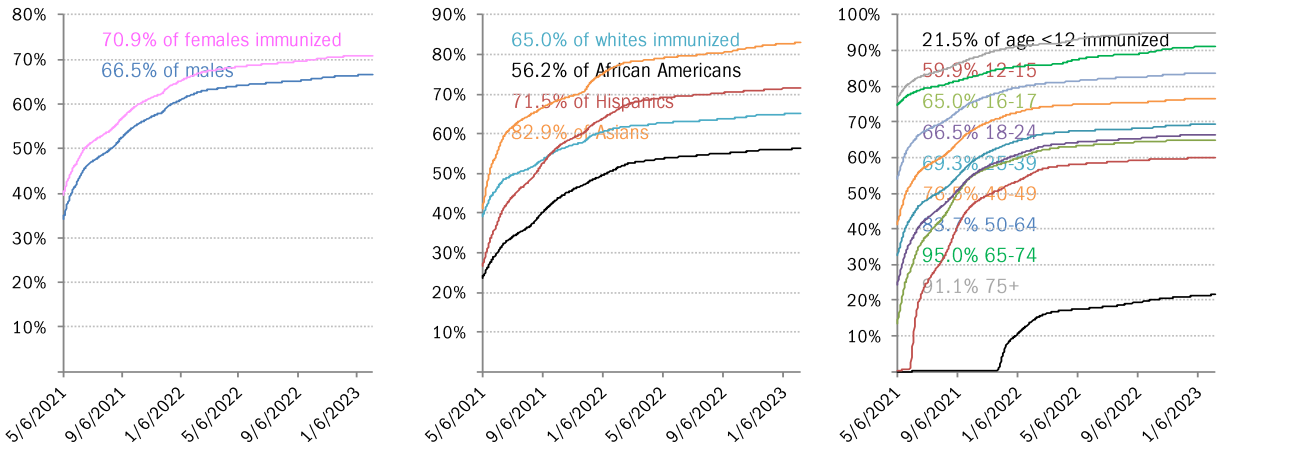
"Immunity" = two doses

Best
Middle
Worst

As of Feb 17

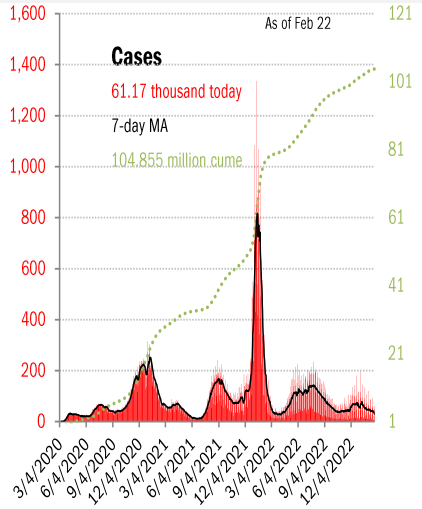
AK					WI					ME
73.0%					75.1%					95.0%
65.1%					68.2%					83.3%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
85.2%	63.9%	68.3%	69.4%	78.8%	79.2%	69.4%		94.4%	95.0%	88.2%
76.0%	56.4%	59.2%	58.7%	72.1%	71.3%	62.3%		80.8%	85.7%	71.9%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.6%	77.6%	60.9%	83.9%	70.7%	64.4%	65.7%	90.6%	94.6%	95.0%	
72.4%	63.7%	53.0%	66.3%	64.4%	57.7%	60.4%	73.4%	79.1%	84.3%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
84.7%	75.3%	83.7%	73.4%	69.3%	68.8%	67.5%	91.0%	91.7%	95.0%	95.0%
74.7%	66.7%	73.5%	66.3%	59.0%	59.6%	59.7%	76.6%	79.7%	83.0%	87.7%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	77.6%	94.4%	76.2%	69.9%	64.4%	92.2%	71.0%	95.0%	88.2%	
	66.0%	75.2%	65.3%	56.9%	56.3%	67.1%	59.9%	90.4%	73.3%	
			OK	LA	MS	AL	GA			
			74.6%	62.8%	61.6%	65.0%	68.4%			
			60.5%	55.0%	53.7%	53.2%	57.3%			
HI			TX					FL		PR
91.4%			76.4%					82.5%		90.9%
81.5%			63.2%					69.4%		84.1%

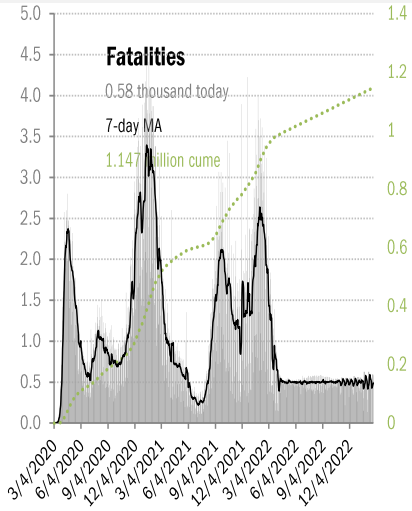
The demographics of US vaccination

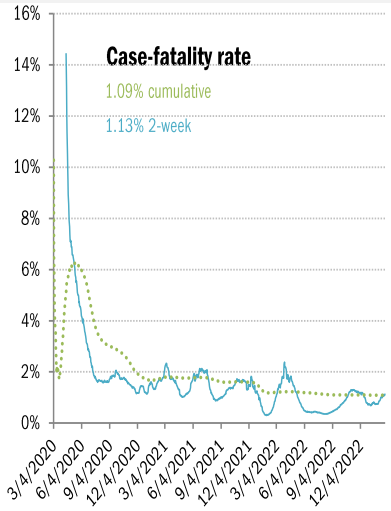


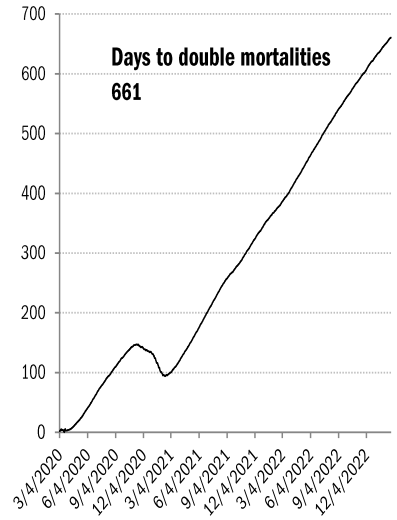
Source: CDC, CDC, Our World in Data, TrendMacro calculations

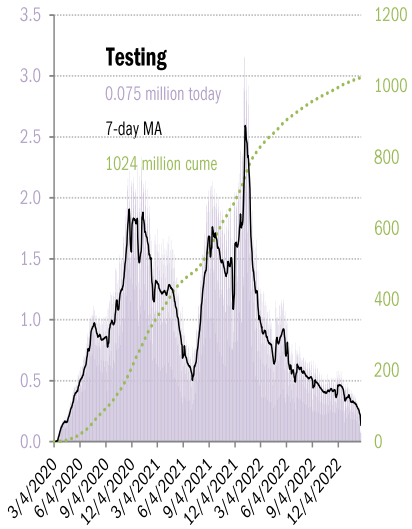
US deep-dive

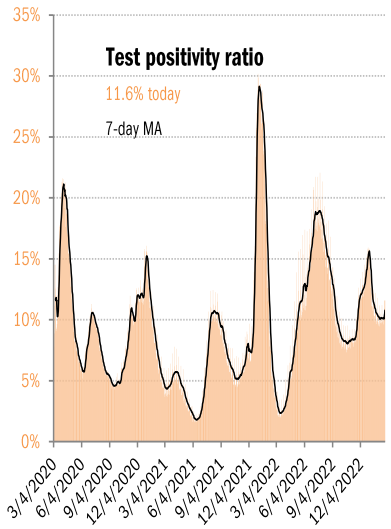


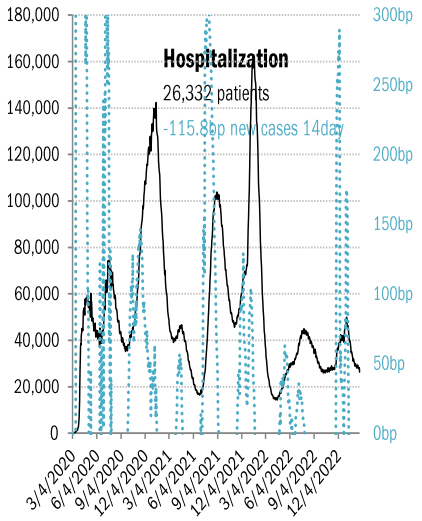


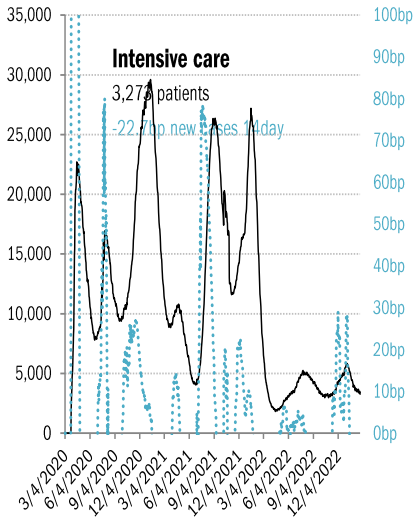


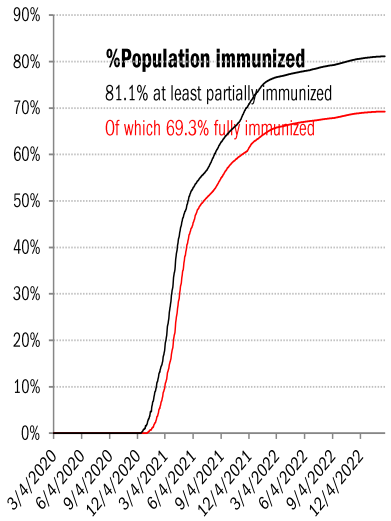












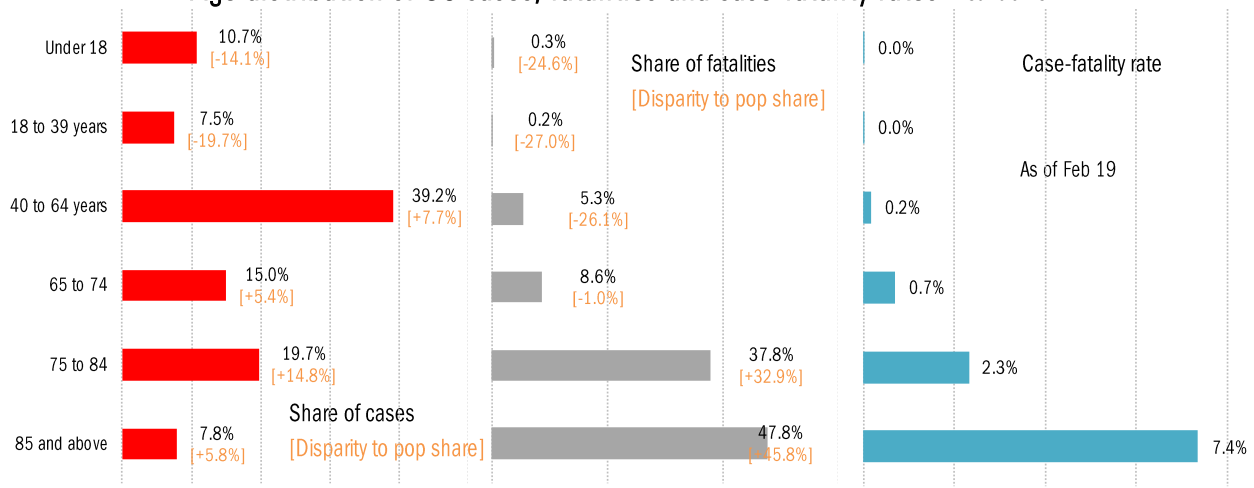
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

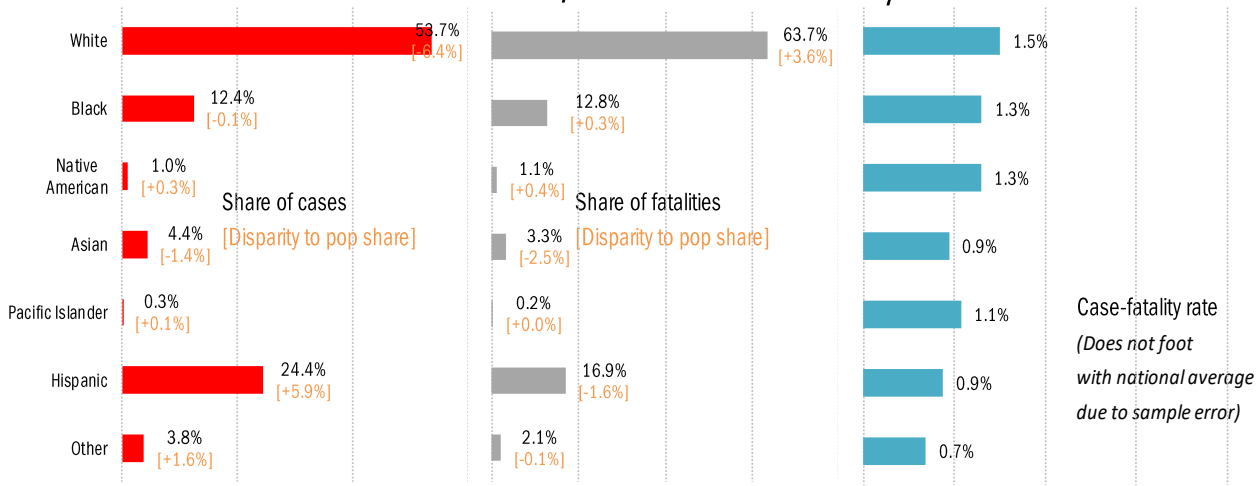
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



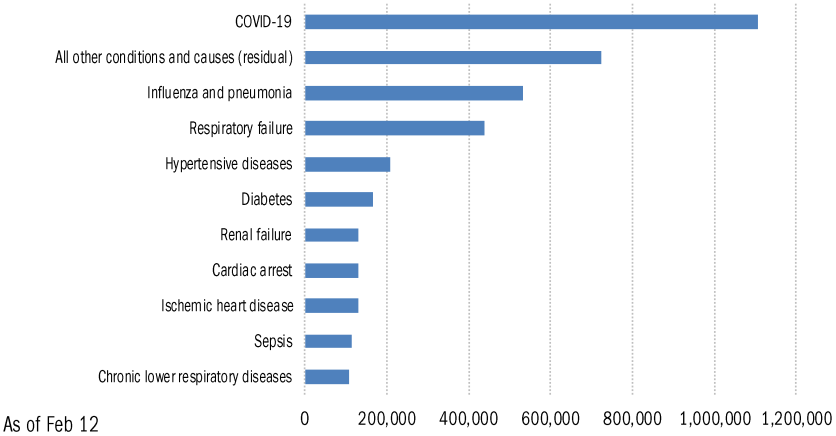
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Feb 12

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

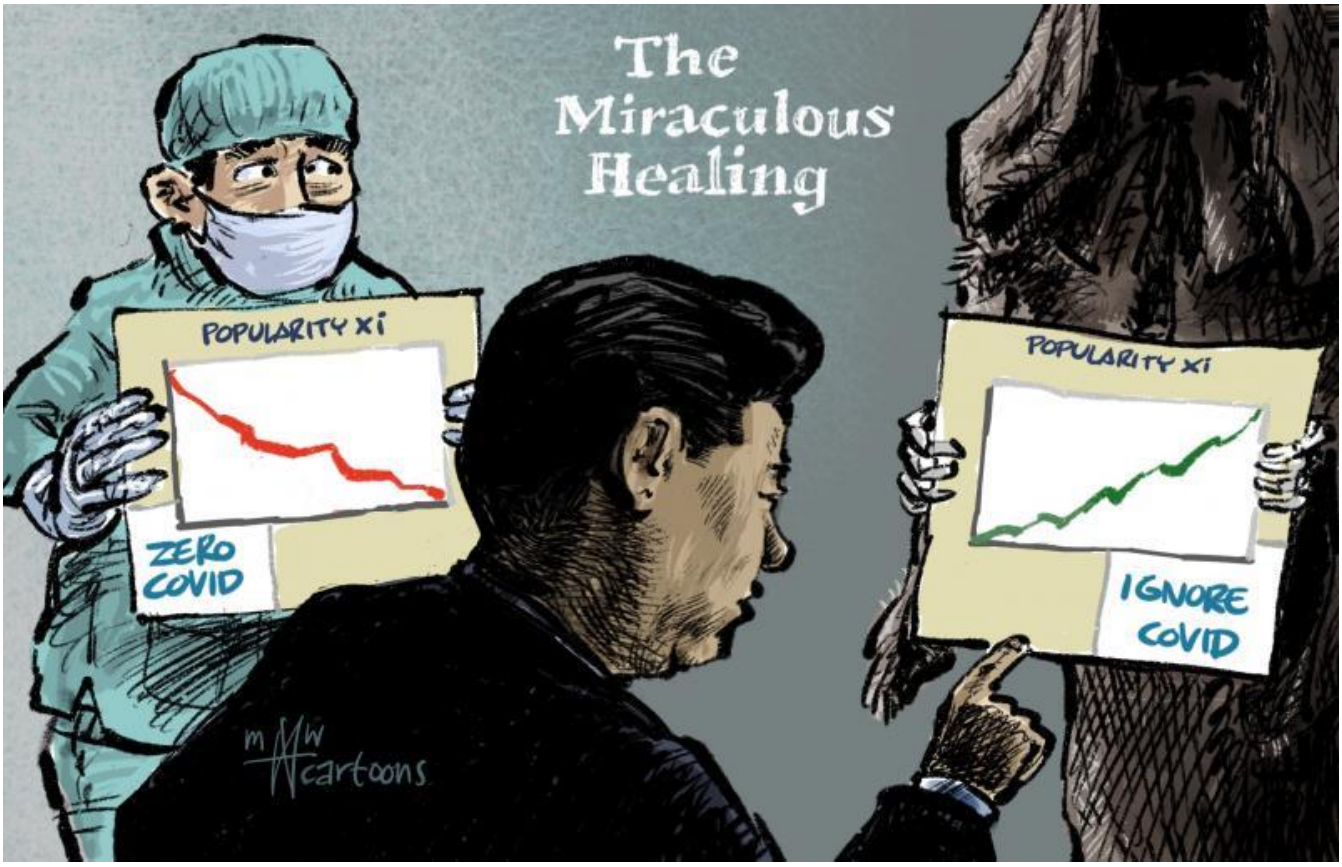
Recommended reading

[The new scientific review on masks and Covid isn't what you think](#)
Kelsey Piper
Vox
February 22, 2023

[Spy balloon, UFO or Dragon Ball? Japan baffled by iron ball washed up on beach](#)
Justin McCurry
The Guardian
February 21, 2023

[More than $200 Million in City-Purchased COVID Gear Auctioned Off For Just $500,000](#)
Greg B. Smith
The City
February 21, 2023

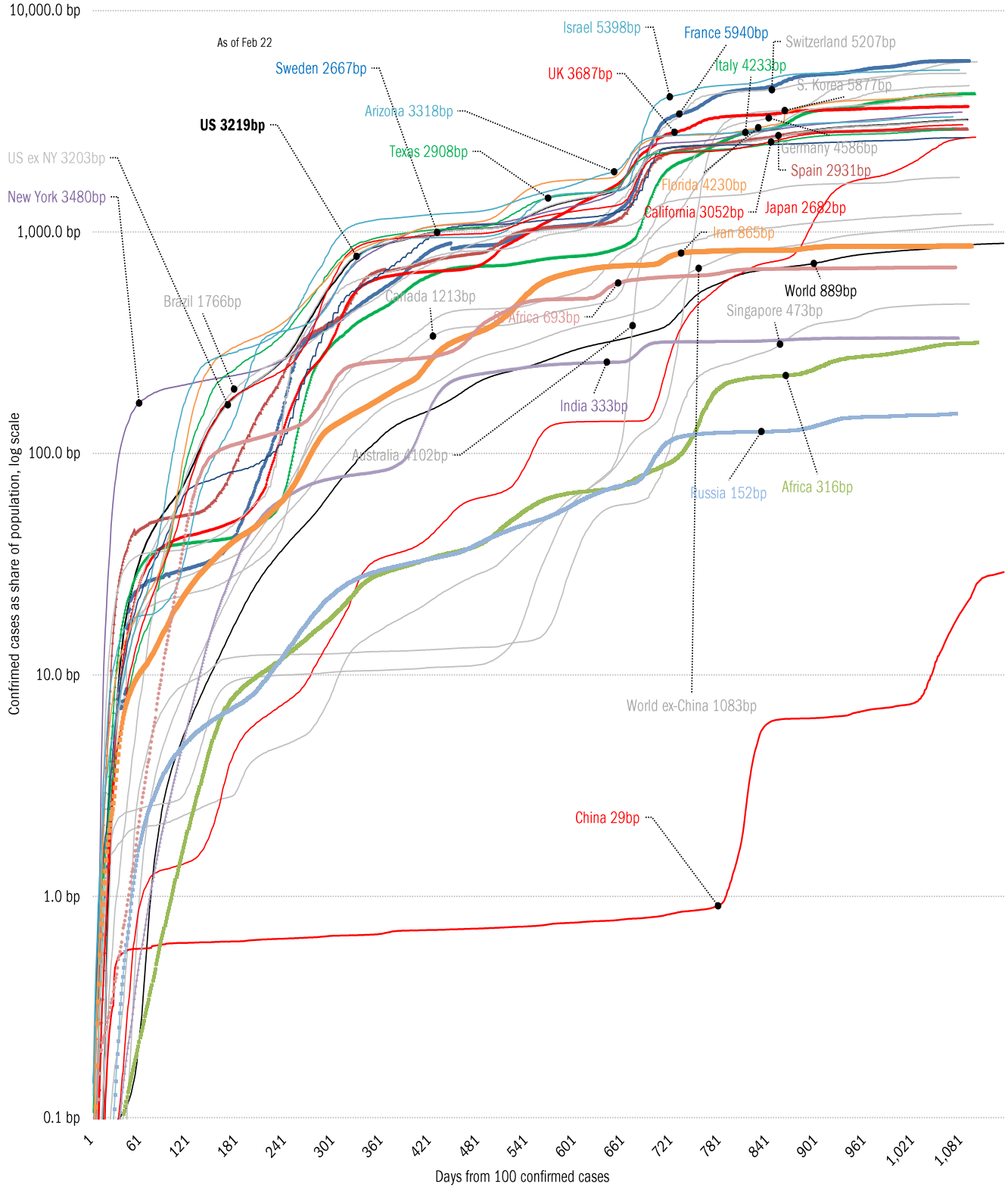
Meme of the Day



Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

The global coronavirus case accelerometer… tracking the world's infection curves

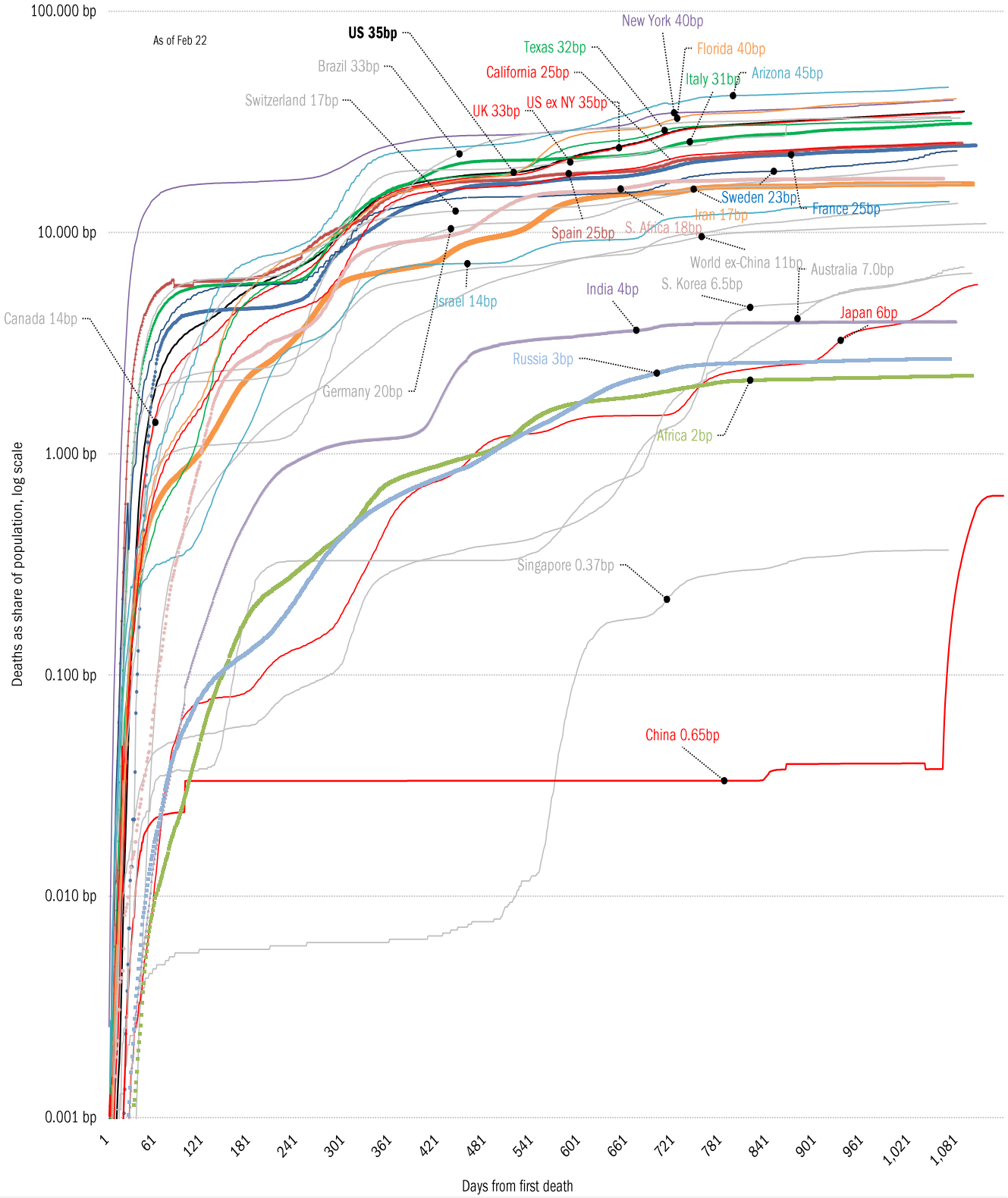
Share of infected population from first day with 100 confirmed cases, log scale



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

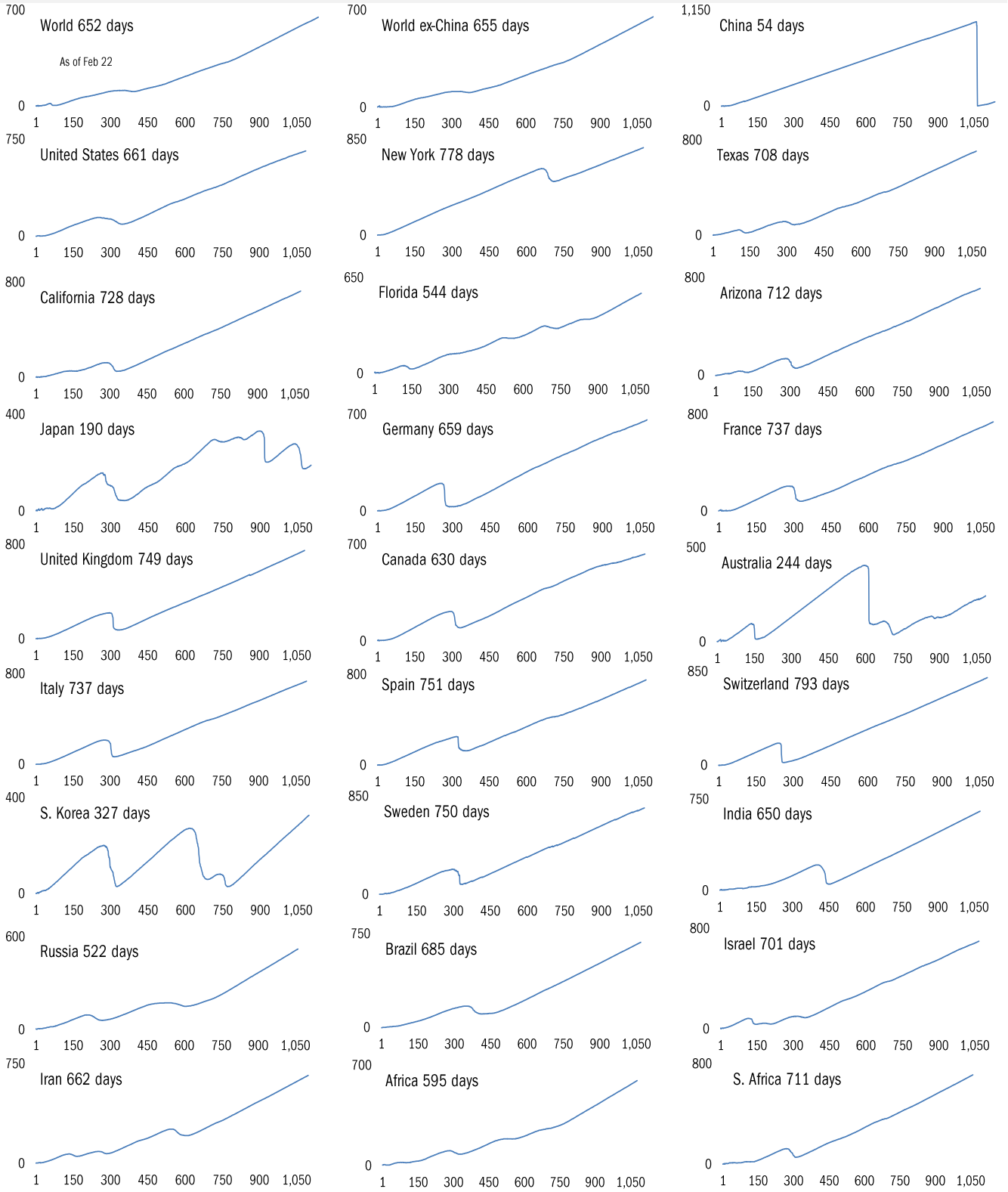


Source: Johns Hopkins, TrendMacro calculations

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

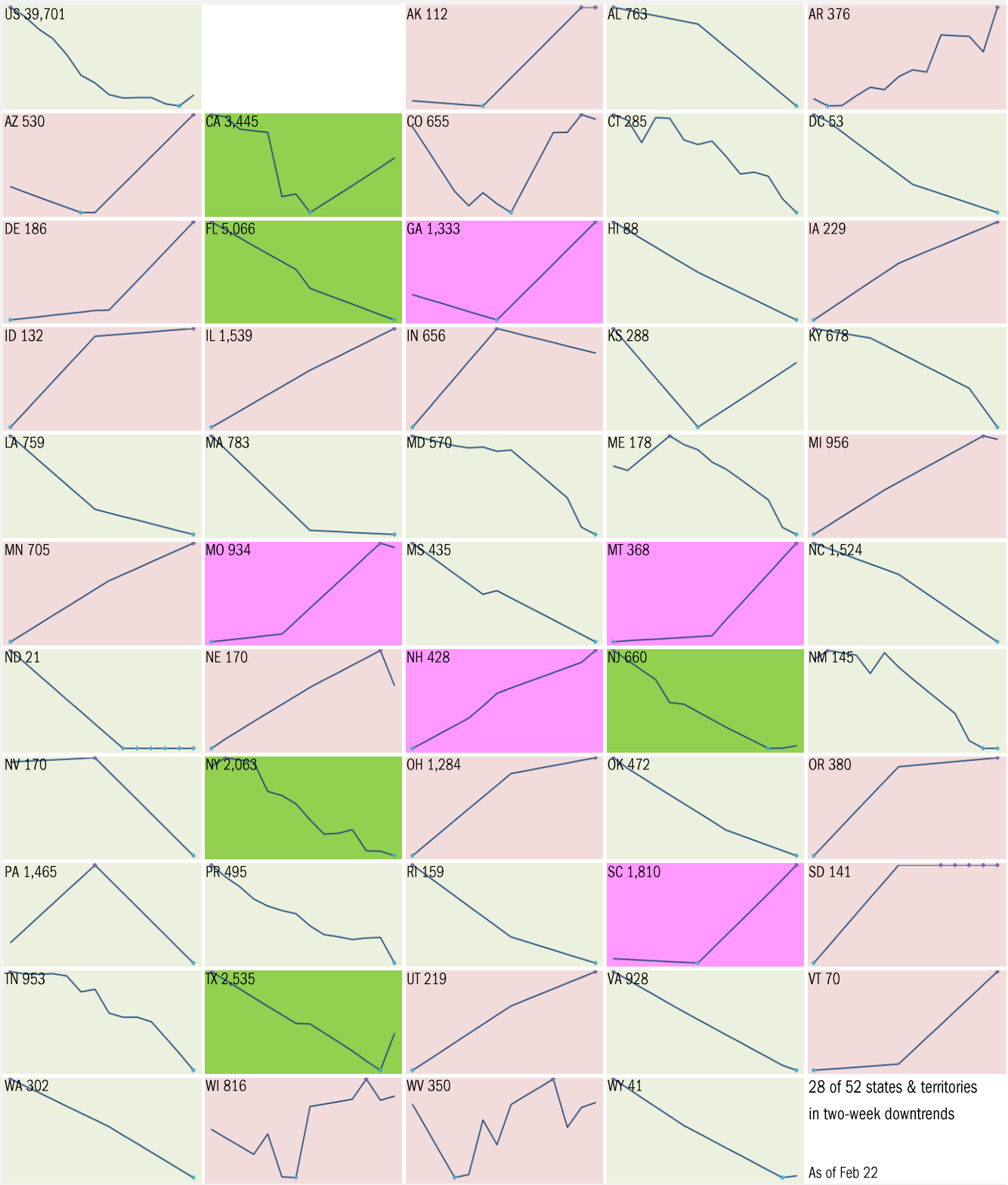


Source: Johns Hopkins, TrendMacro calculations

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

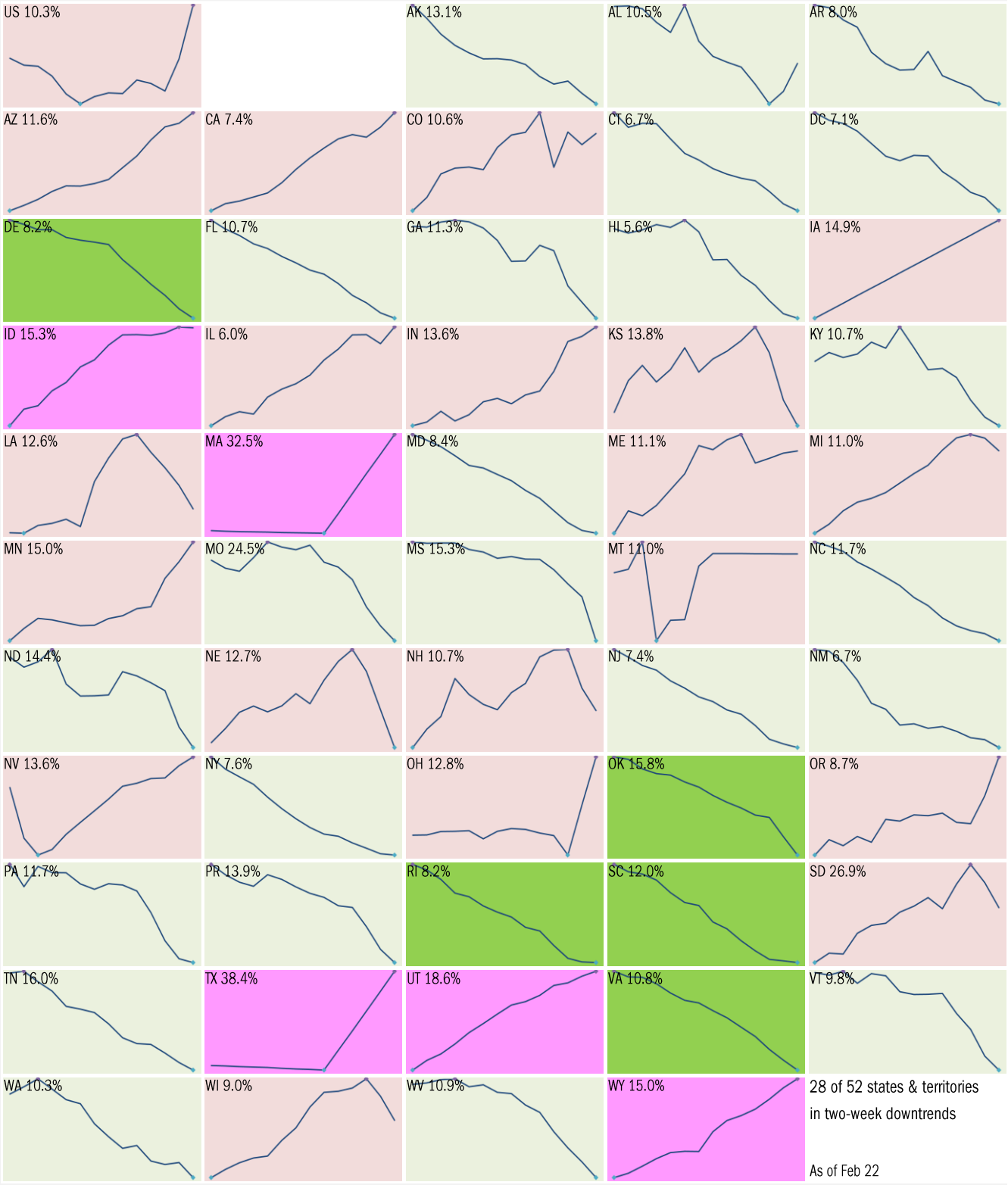


Source: Johns Hopkins, TrendMacro calculations

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

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

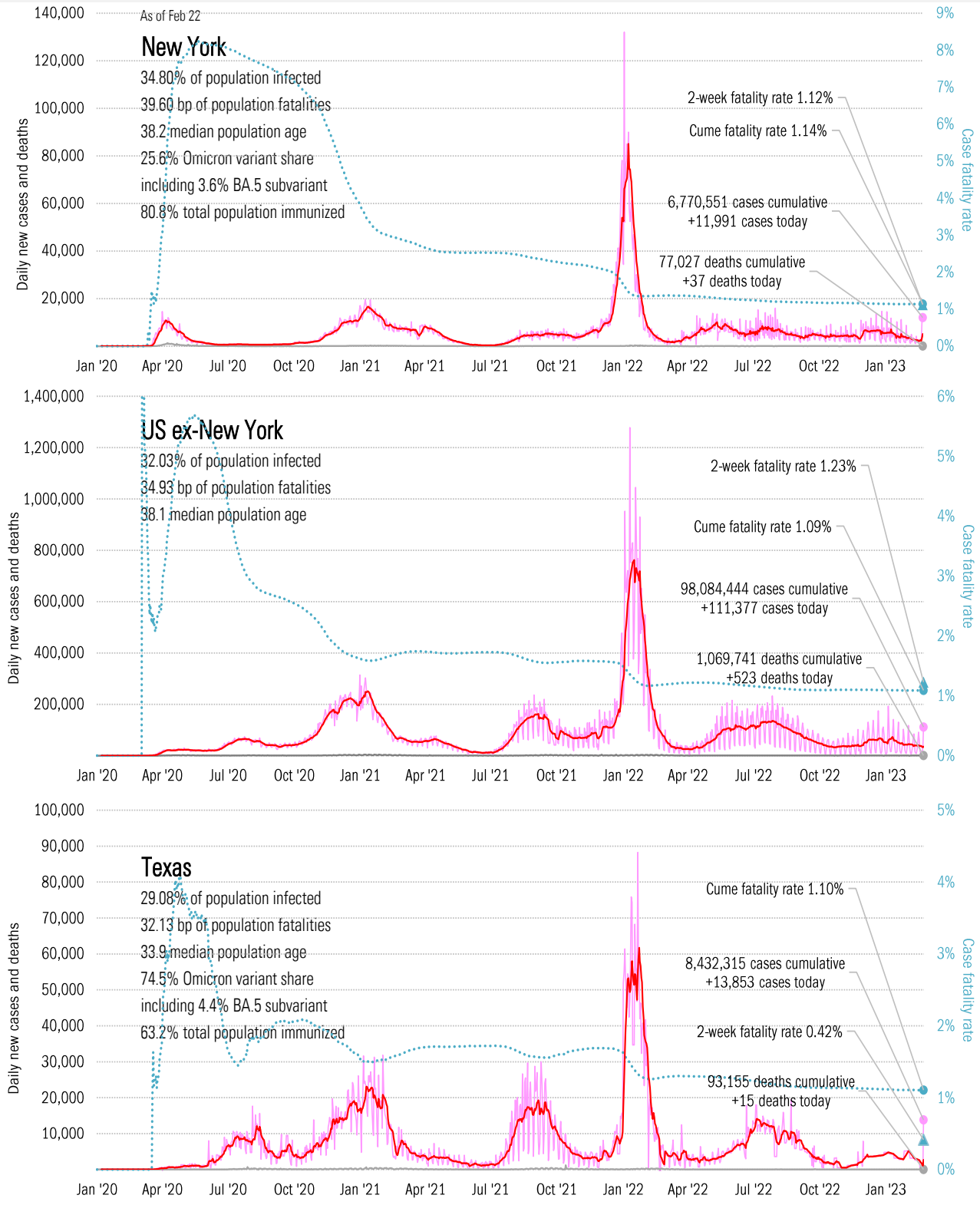
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

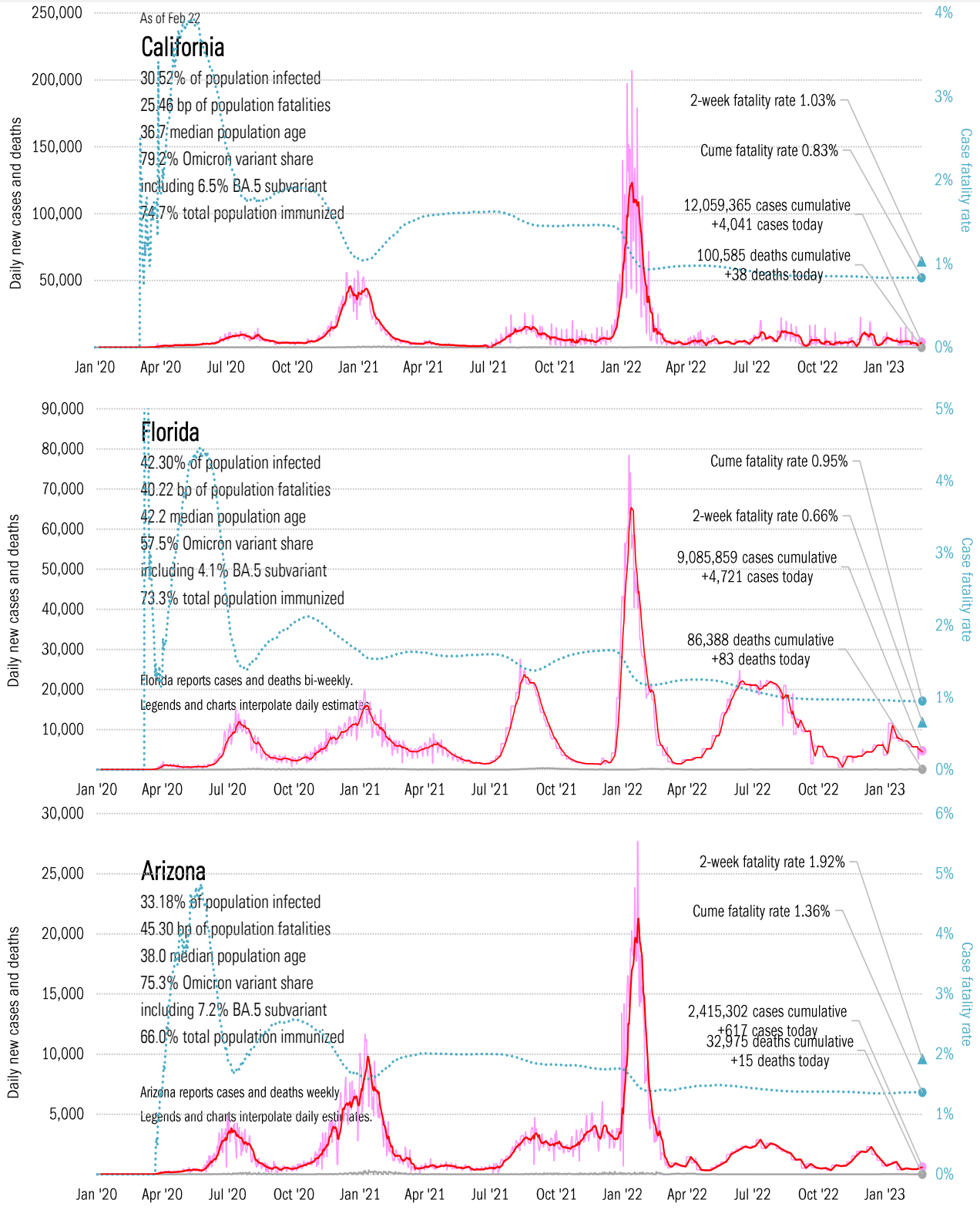
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

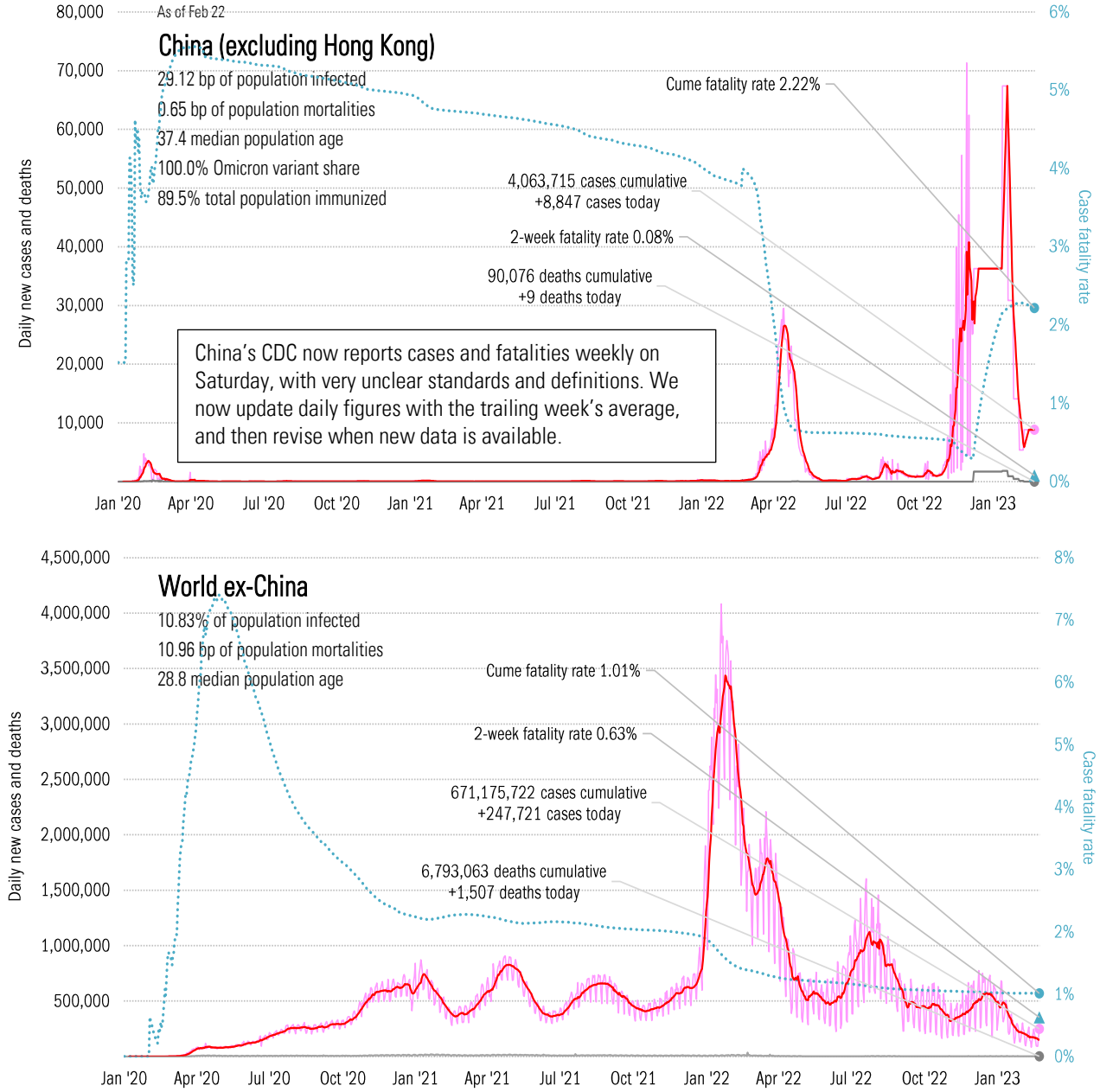
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

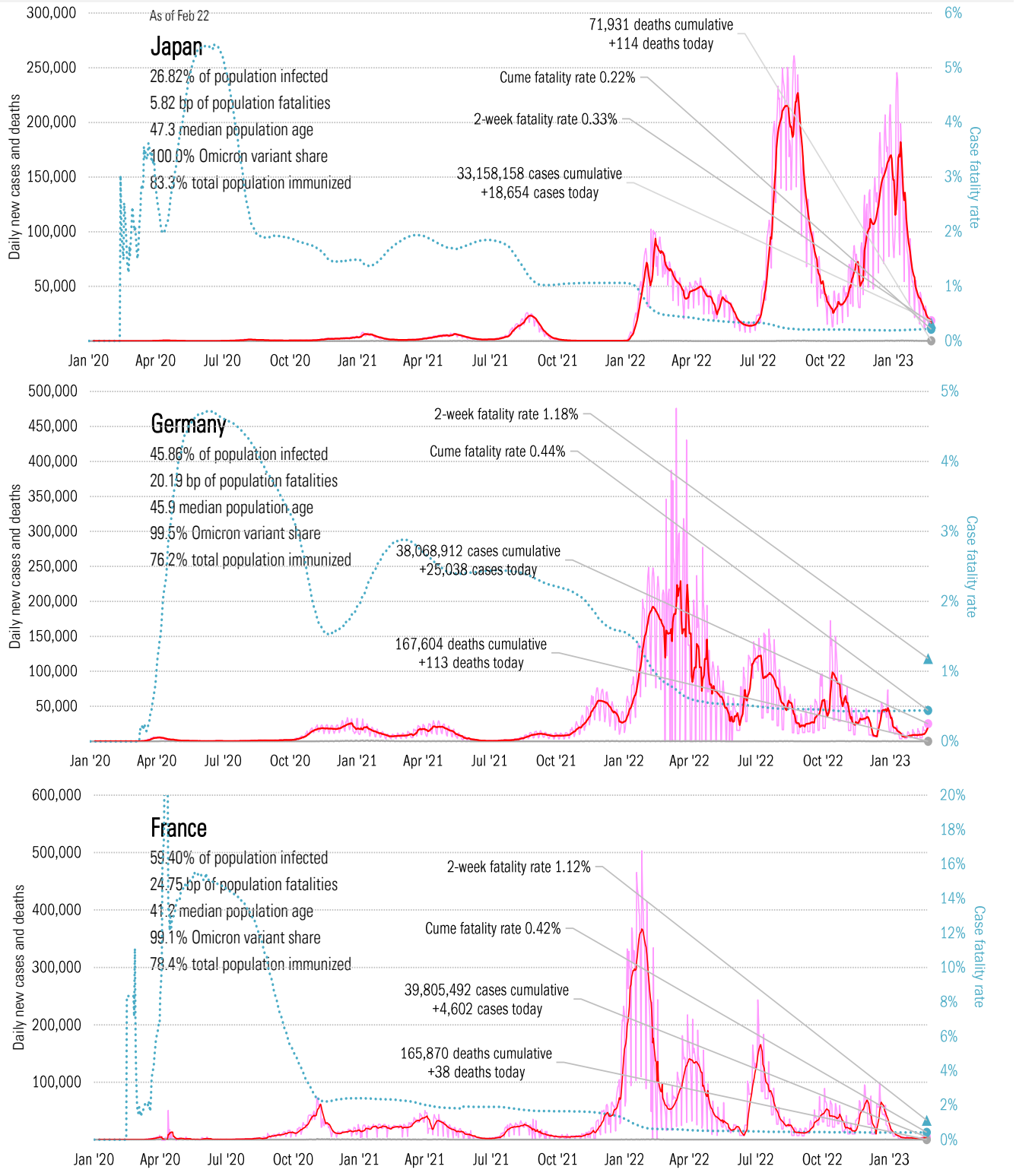
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, China CDC, TrendMacro calculations

Impact in the largest economies

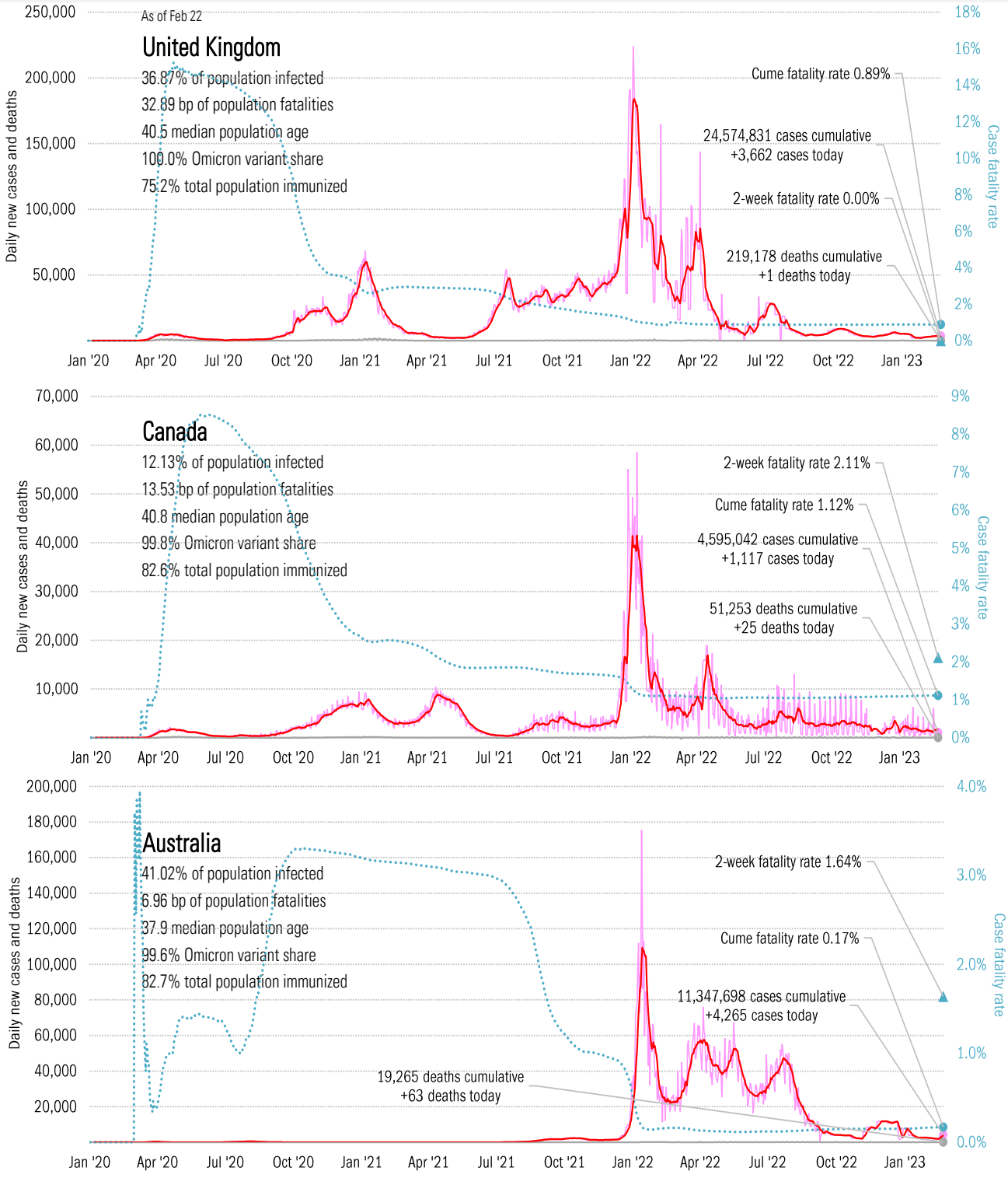
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

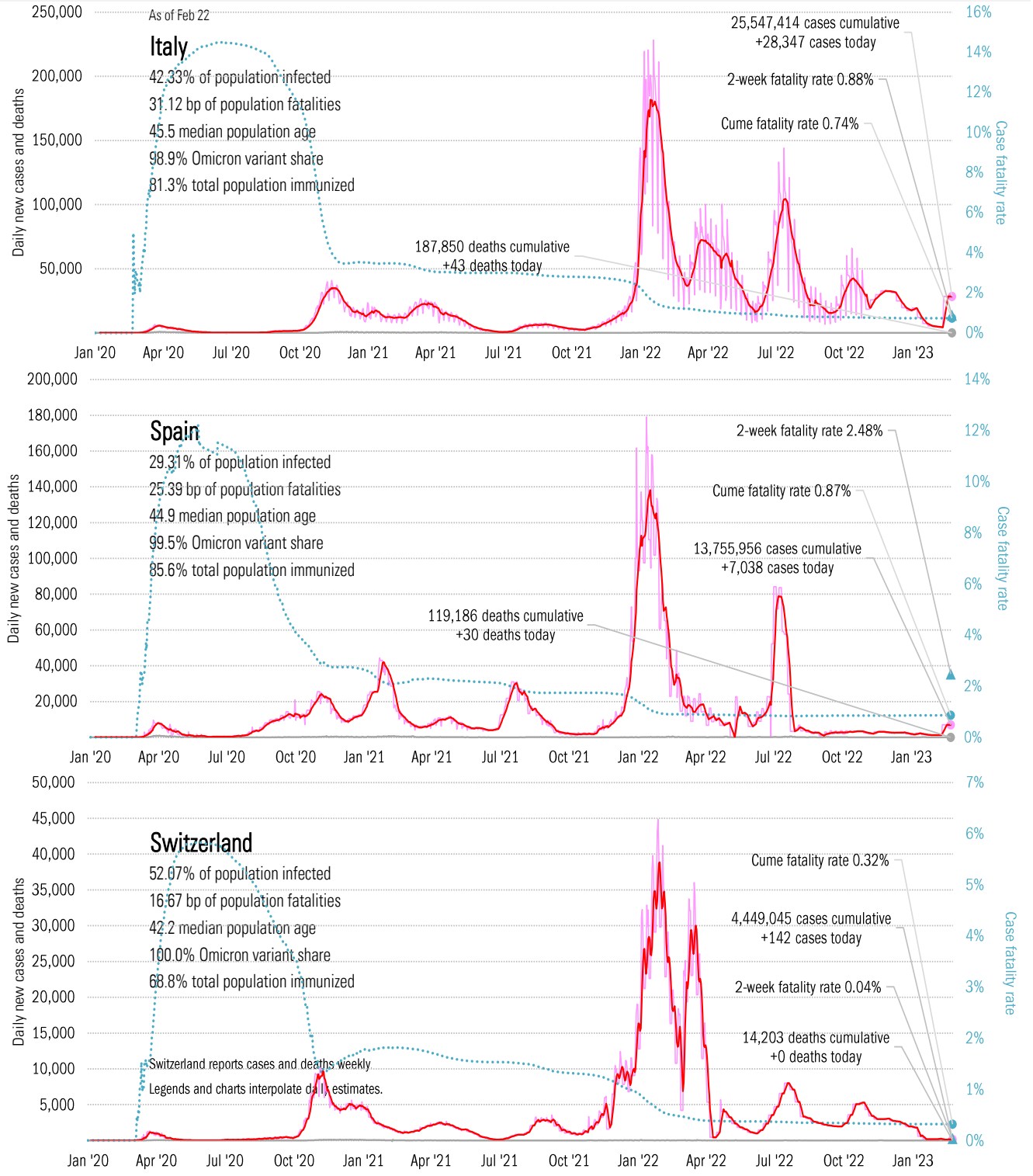
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

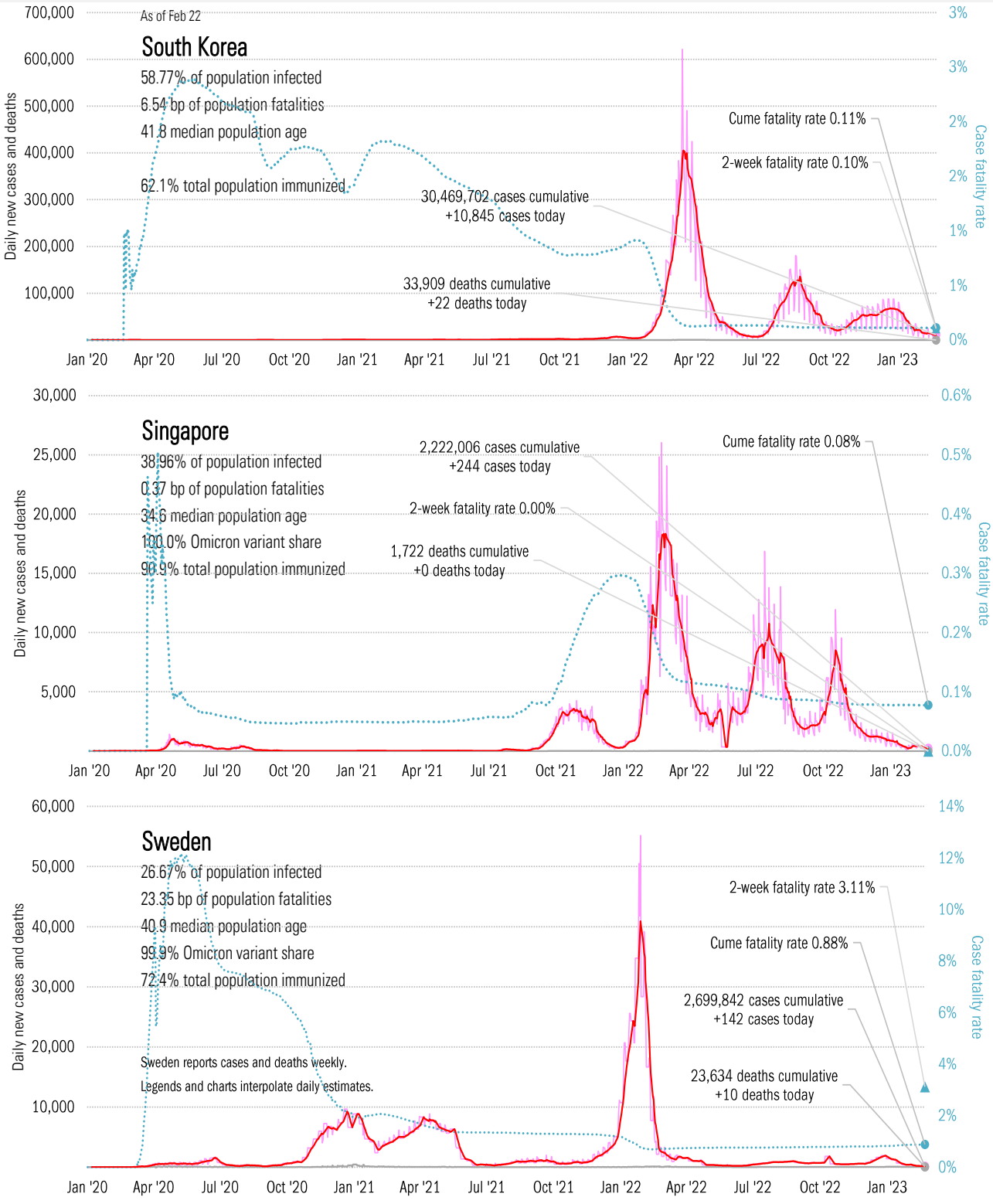
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

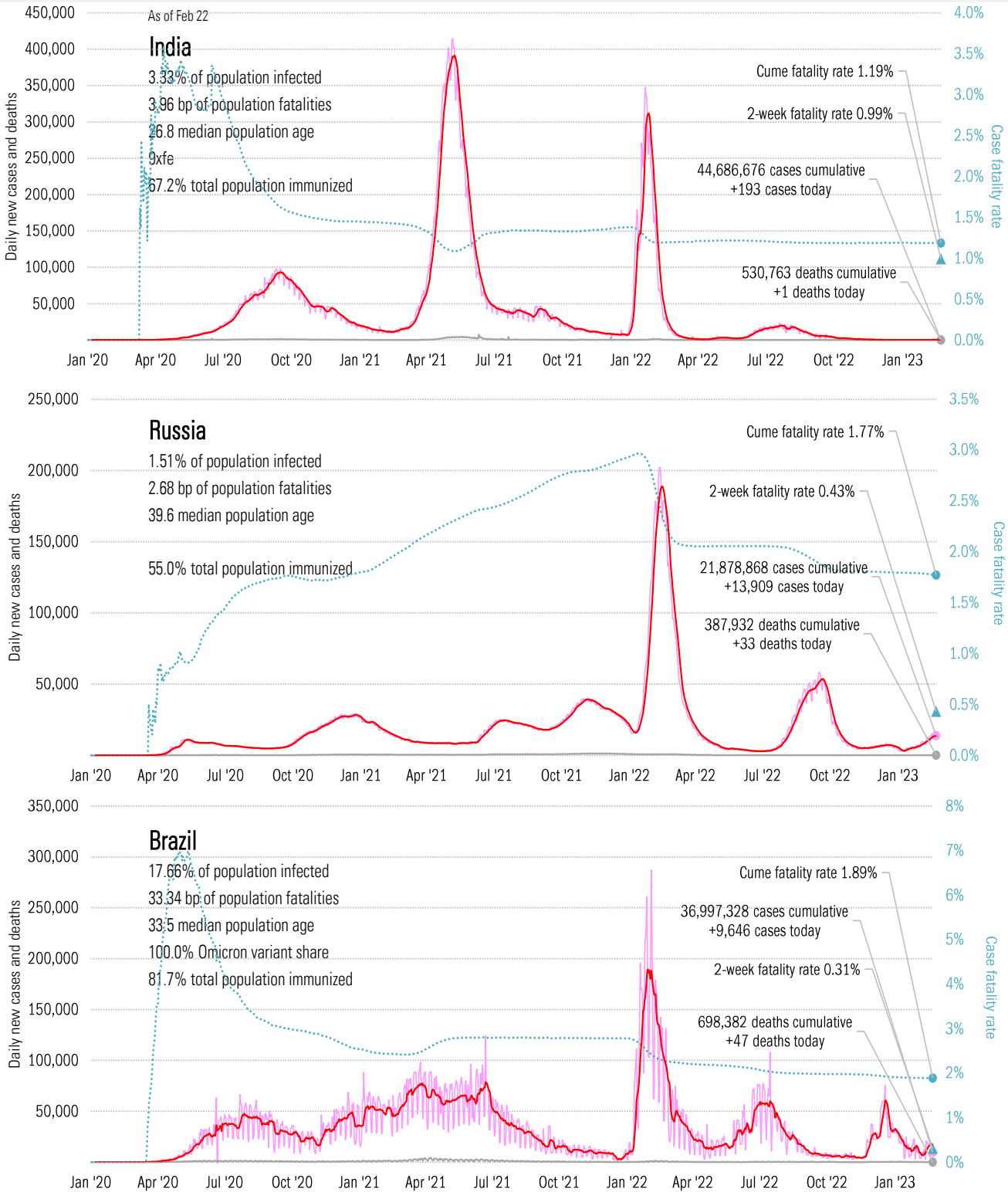
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

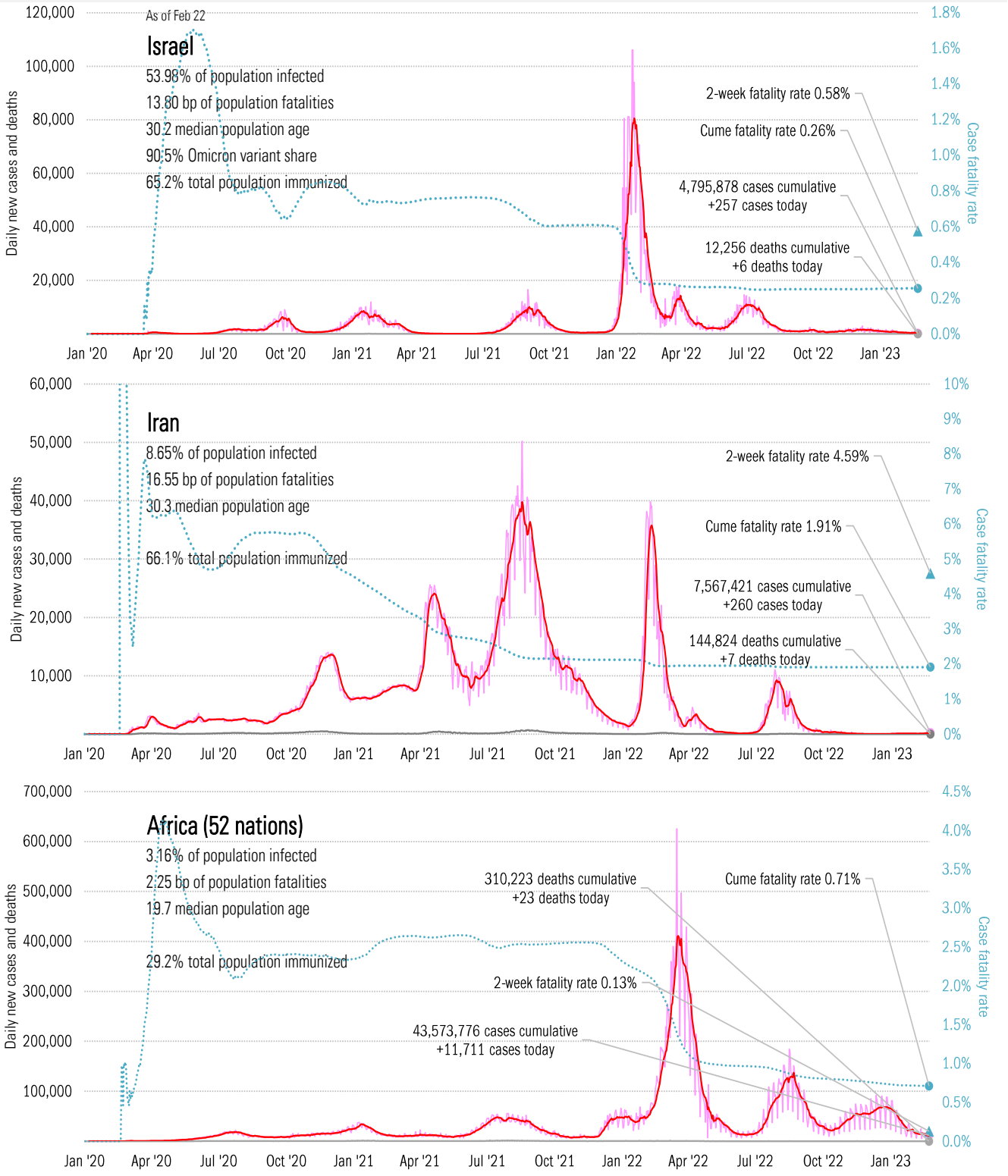
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

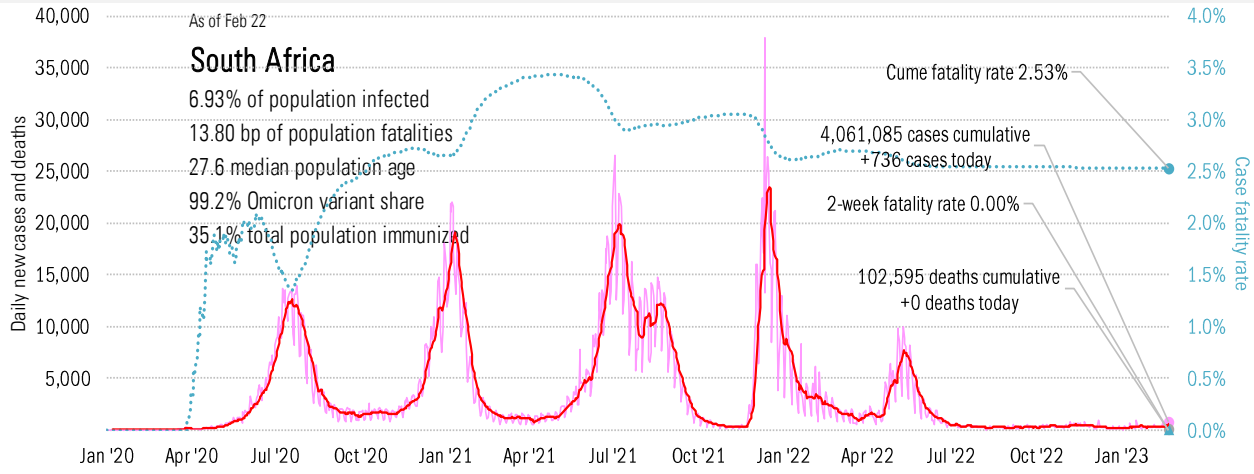
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations