Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

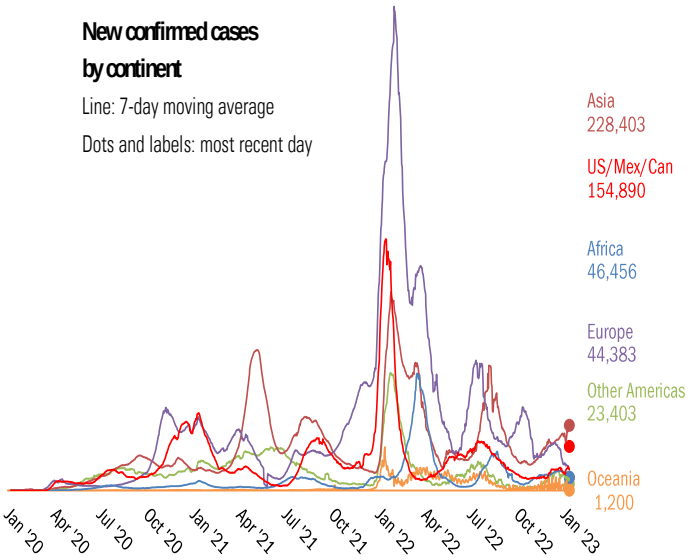
Thursday, January 12, 2023

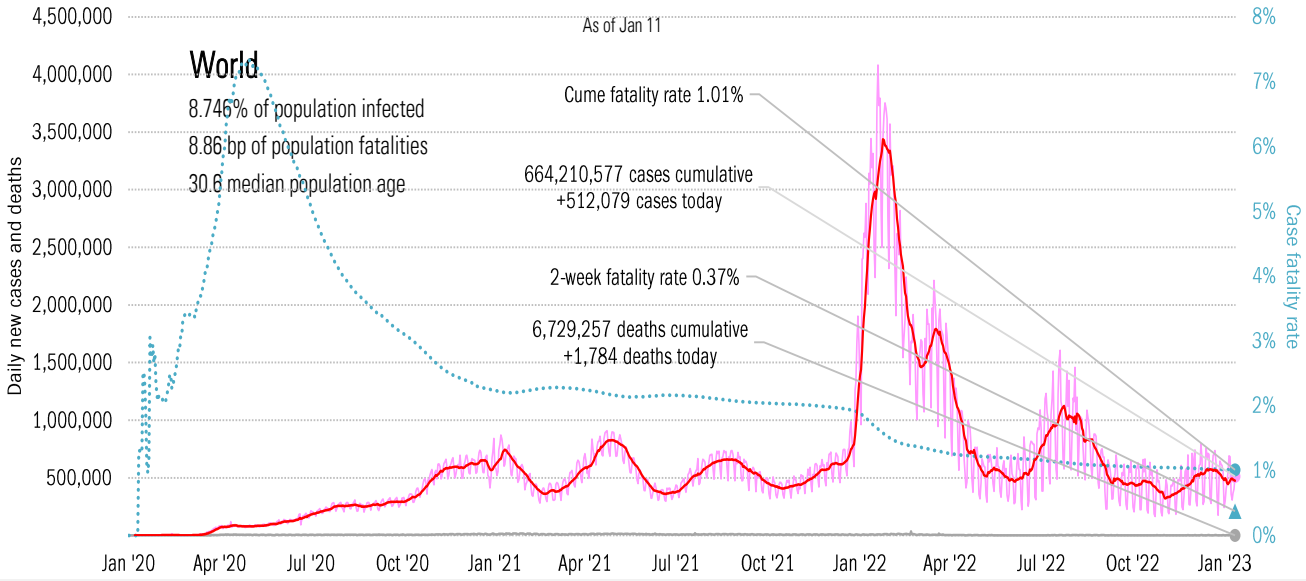
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	198,873	United States	942
United States	153,546	Japan	381
Korea, South	43,953	Germany	181
Brazil	26,433	Italy	111
Taiwan*	25,631	Brazil	103
Italy	19,425	France	88
Germany	19,379	Korea, South	76
France	7,753	Spain	53
China	7,181	Ireland	49
Russia	4,182	Russia	46
	506,356		2,030





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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The US scorecard

Cases: 7-day average and daily Deaths: Daily

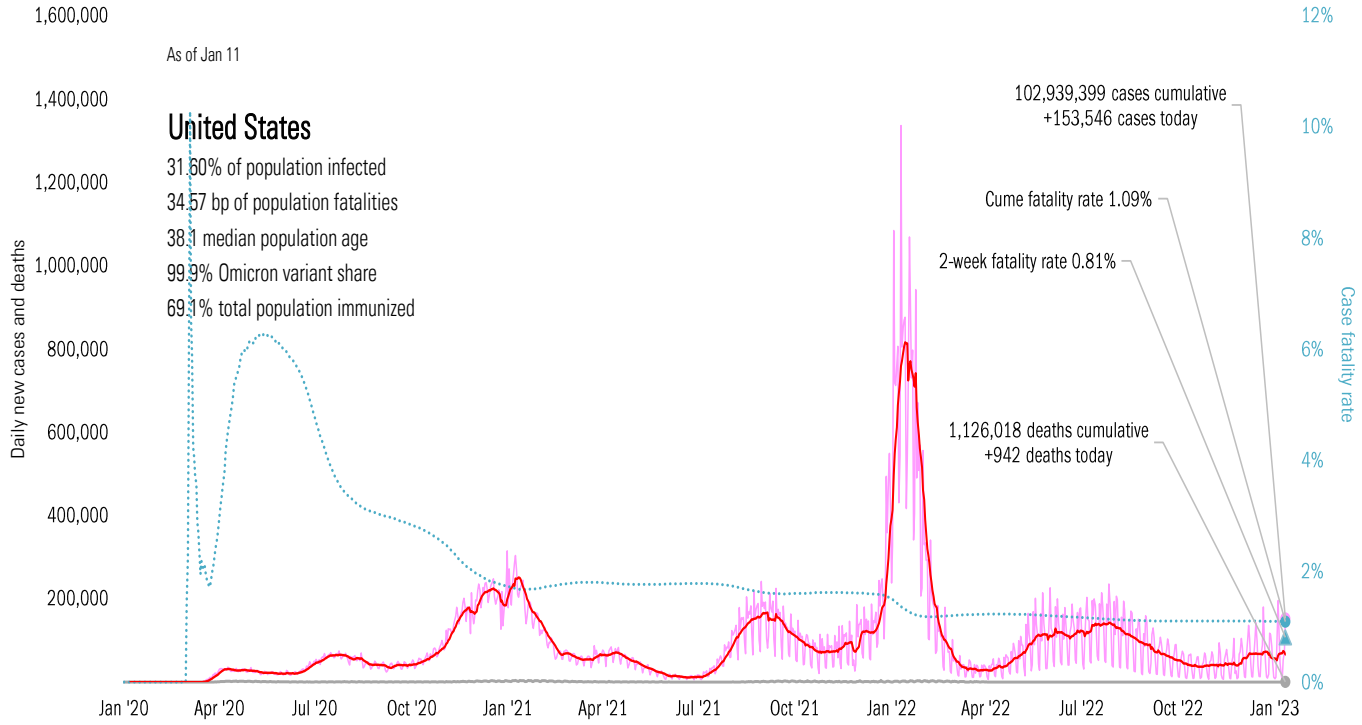
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TX	30,396	IN	109	CT	135	CA	11,888,020	CA	99,066	TX	574,636	DE	136%	DE	134%
PA	13,813	VT	90	TX	542	TX	8,299,950	TX	92,088	CA	549,119	RI	90%	TX	90%
FL	11,536	NY	82	ID	27	FL	7,393,712	FL	84,176	FL	518,814	NH	90%	NH	89%
NY	4,221	IL	45	MT	18	NY	6,635,489	NY	75,648	NY	340,826	MA	87%	NC	88%
NC	3,232	CA	39	OR	40	IL	3,981,275	PA	49,263	OH	238,242	WA	87%	MS	88%
CA	2,588	FL	39	WY	8	PA	3,447,091	GA	41,648	GA	236,917	MD	85%	NM	87%
VA	2,561	WI	37	AK	9	NC	3,382,420	OH	41,033	PA	222,988	MO	85%	AL	86%
NJ	2,486	PA	33	NM	22	OH	3,321,463	MI	41,001	IL	206,738	MN	84%	MA	86%
KS	2,326	NC	30	DC	26	GA	3,011,842	IL	40,747	MI	176,675	WV	84%	RI	86%
OH	1,985	MI	24	SD	10	MI	3,008,261	NJ	35,637	NJ	155,853	NC	84%	VT	85%
	75,144		527		837		54,369,523		600,307		3,220,808				
All states	100,853		942		5,403	All states	102,939,399		1,126,018		5,842,630	All states	70%		67%
Top ten	75%		56%		15%	Top ten	54%		55%		55%	Median	80%		80%

Some states not reporting

Five most improved US states

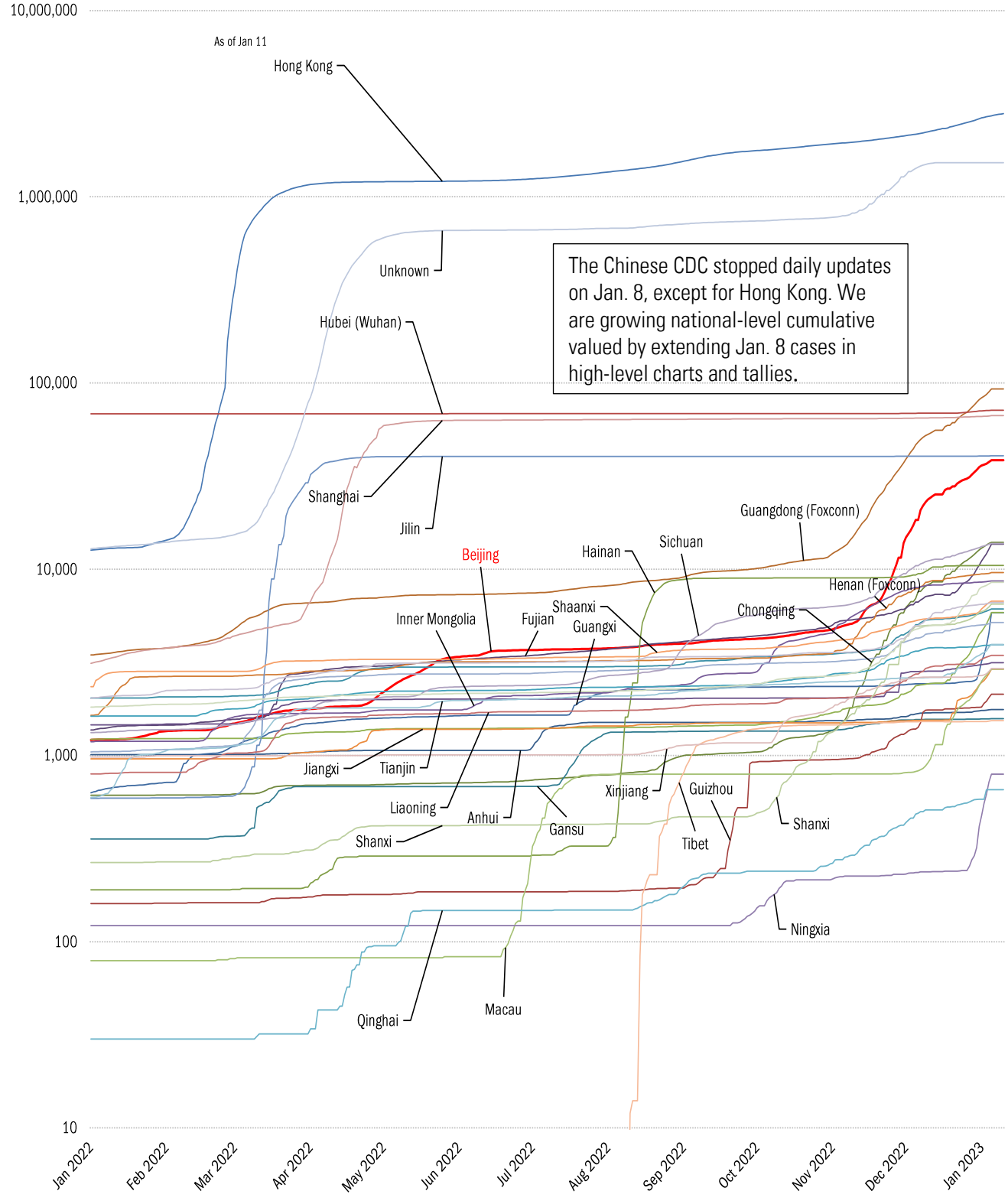
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
AZ	-884	AZ	-18	NY	-194
MD	-583	MD	-18	FL	-177
MO	-368	NY	-10	GA	-87
CT	-193	WY	-9	NC	-80
ME	-161	MO	-8	AL	-74



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

China provincial coronavirus case accelerometer… tracking the "zero Covid" curves

Cumulative reported cases this year, log scale: flat line indicates "zero Covid"



Source: Johns Hopkins, TrendMacro calculations

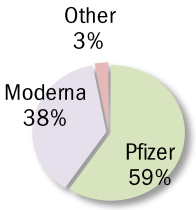
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	681,672,640				+0.183 million
				Of which boosters:	+0.157 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	276,944,352	83%	236,067,457	71%	+0.018 million
Age 12 to 17	18,423,075	73%	15,770,112	62%	+0.001 million
Age 18 to 64	184,170,530	91%	156,546,552	77%	+0.010 million
Age 65 and over	60,993,756	100%	53,409,974	97%	+0.003 million

Immunity	Full	Partial
US	69.0%	80.8%
UK	75.2%	79.7%
France	78.4%	80.6%
Spain	85.5%	86.9%
Germany	76.2%	77.8%
Italy	81.3%	86.2%
Australia	82.7%	84.9%
Israel	65.2%	71.1%
Canada	82.5%	90.1%
Japan	83.2%	84.4%
Africa	27.5%	33.5%
India	67.1%	72.5%
Brazil	81.2%	87.6%
China	89.4%	91.7%

Global data differs due to sources, timing



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

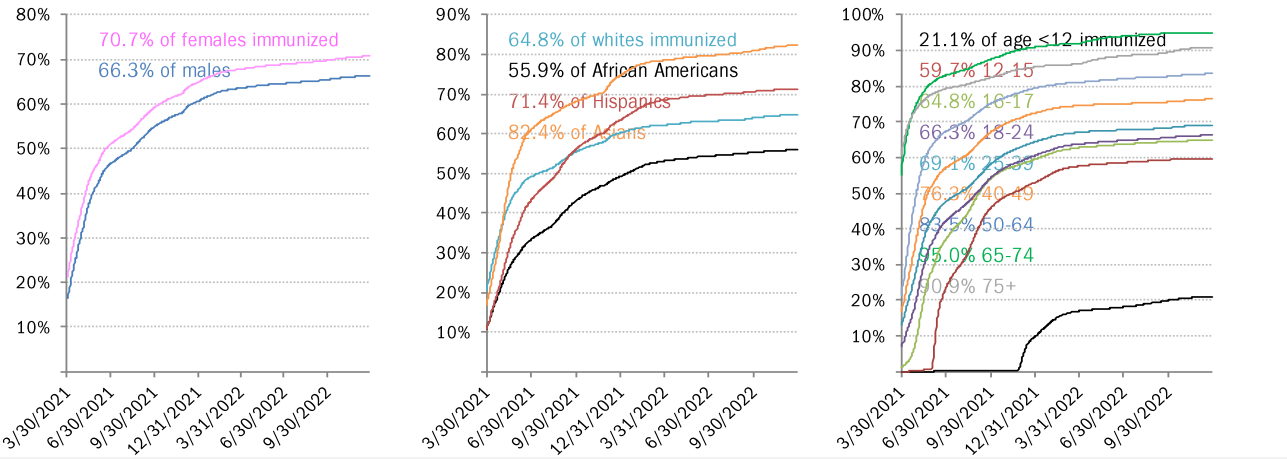
"Immunity" = two doses

Best
Middle
Worst

As of Jan 6

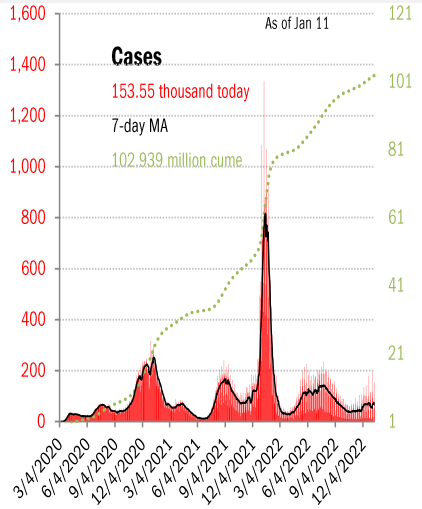
					WI					ME
					74.9%					95.0%
					68.0%					83.1%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
84.9%	63.7%	68.1%	69.1%	78.5%	78.9%	69.3%		94.1%	95.0%	87.5%
75.8%	56.3%	59.0%	58.4%	71.9%	71.0%	62.2%		80.5%	85.3%	71.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.3%	77.3%	60.8%	83.5%	70.5%	64.2%	65.6%	90.2%	94.3%	95.0%	
72.2%	63.6%	52.9%	66.0%	64.2%	57.6%	60.3%	73.0%	78.9%	83.9%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
84.4%	75.0%	83.4%	73.2%	69.1%	68.7%	67.3%	90.7%	91.4%	95.0%	95.0%
74.4%	66.5%	73.2%	66.1%	58.9%	59.5%	59.6%	76.4%	79.4%	82.8%	87.4%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	77.2%	93.9%	75.9%	69.7%	64.3%	91.7%	70.8%	95.0%	87.9%	
	65.8%	74.9%	65.0%	56.7%	56.2%	66.8%	59.7%	85.5%	73.1%	
			OK	LA	MS	AL	GA			
			74.4%	62.7%	61.5%	64.8%	68.2%			
			60.3%	54.9%	53.6%	53.0%	57.1%			
HI			TX					FL		PR
91.1%			76.1%					82.1%		95.0%
81.3%			63.1%					69.2%		86.7%

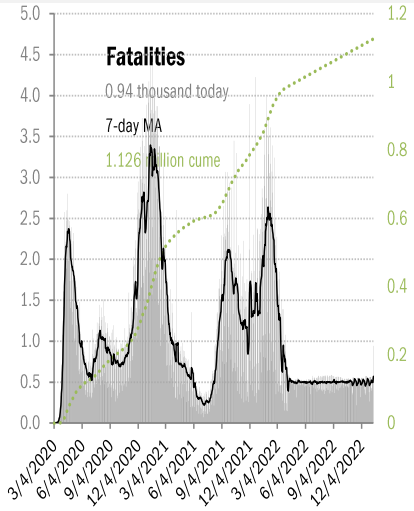
The demographics of US vaccination

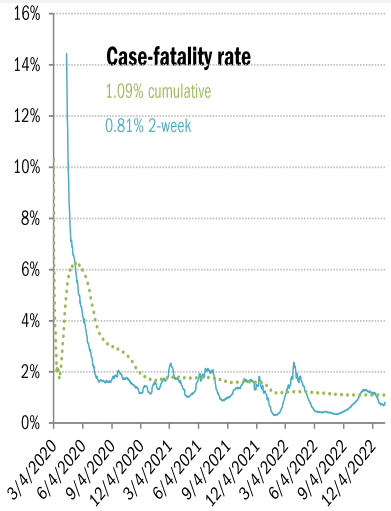


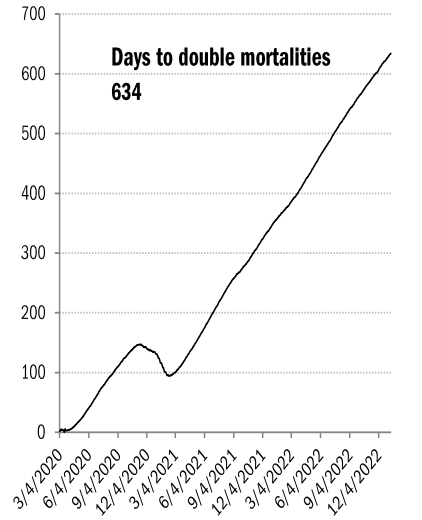
Source: CDC, CDC, Our World in Data, TrendMacro calculations

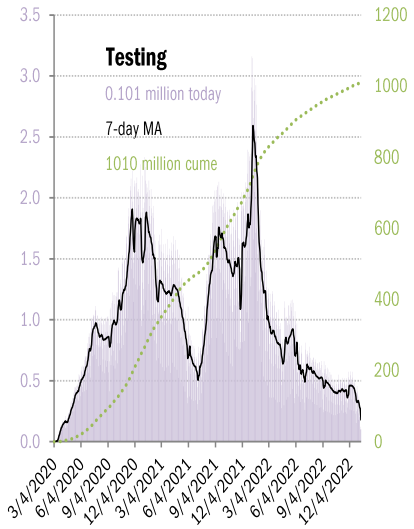
US deep-dive

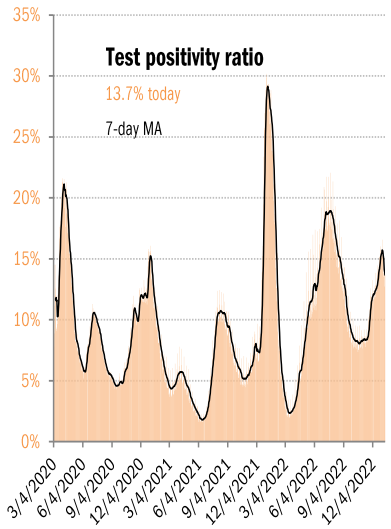


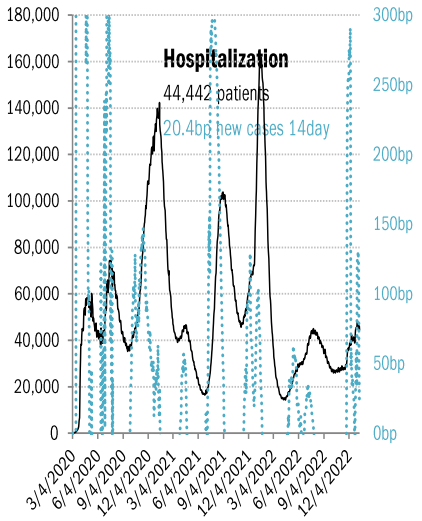


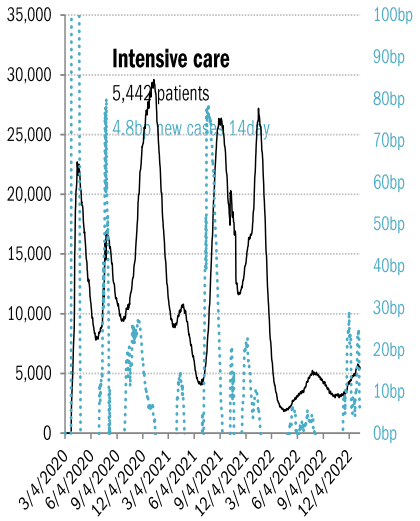


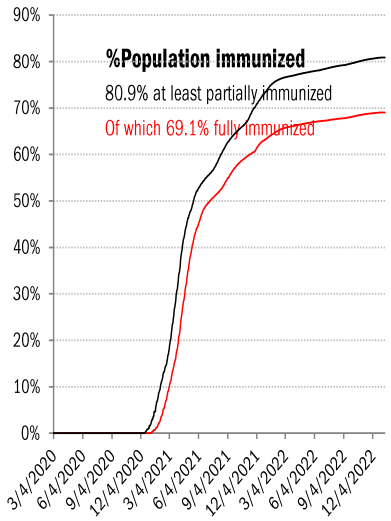












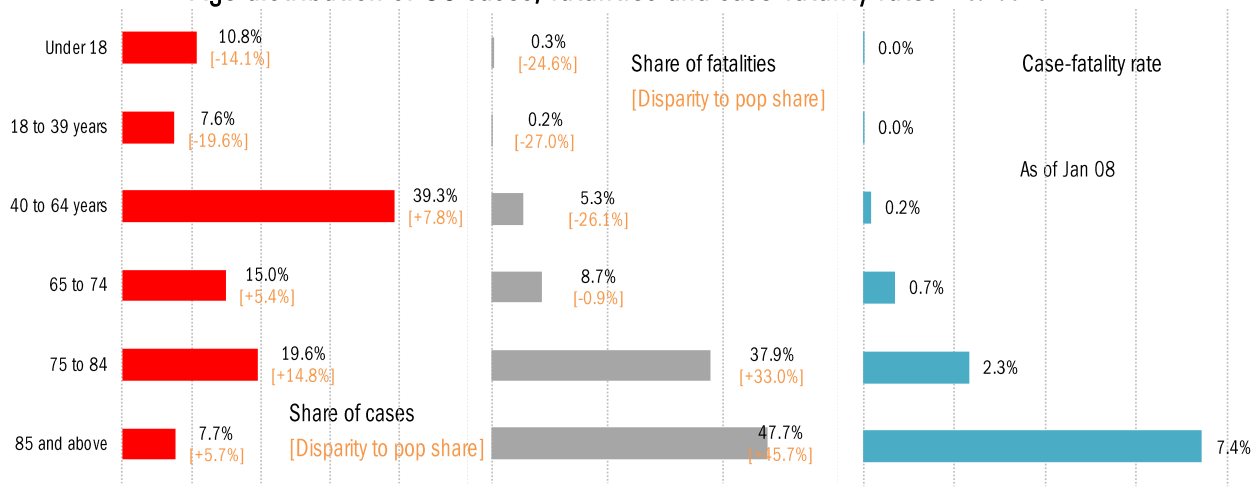
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

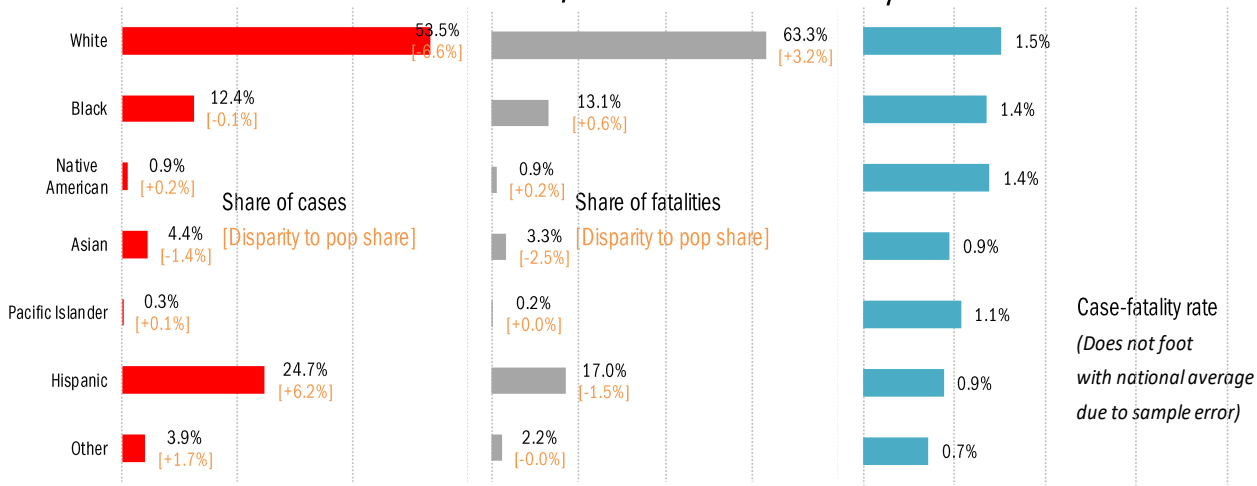
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



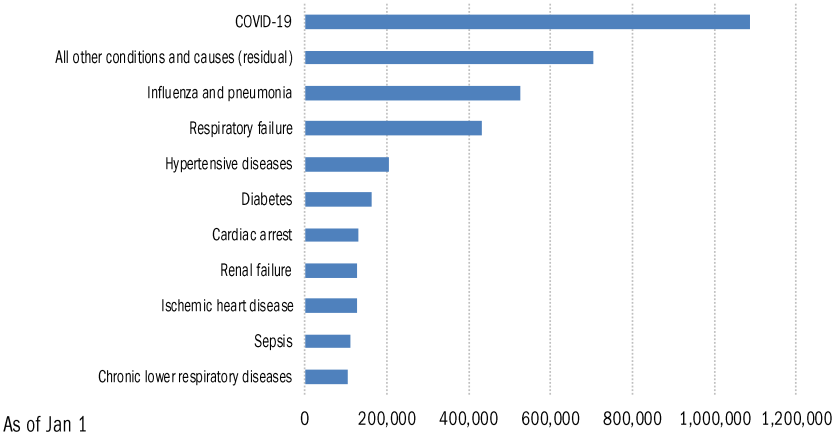
Racial distribution of US cases, fatalities and case-fatality rates

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

How Deadly Were the Covid Lockdowns?
Rob Arnott and Casey B. Mulligan
Wall Street Journal
January 11, 2023

China's covid explosion: How the country went from 'zero-covid' to millions of cases a day
Lili Pike
Grid
January 11, 2023

FDA vaccine advisers 'disappointed' and 'angry' that early data about new Covid-19 booster shot wasn't presented for review last year
Elizabeth Cohen and Naomi Thomas
CNN
January 11, 2023

URGENT: 17 percent of teenagers had heart symptoms after their second Pfizer mRNA jab, a new peer-reviewed paper shows
Alex Berenson
Unreported Truths
January 11, 2023

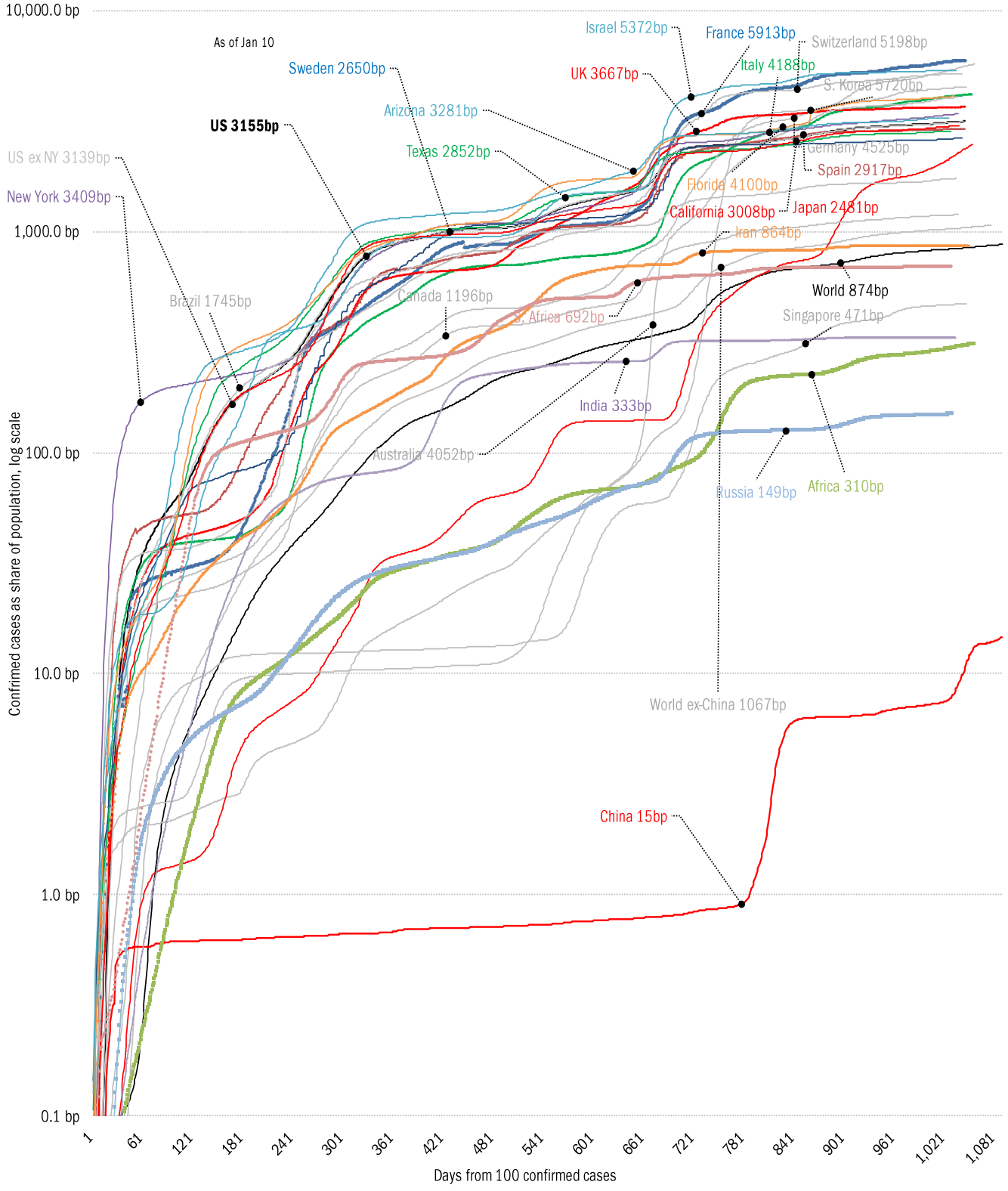
Changes of ECG parameters after BNT162b2 vaccine in the senior high school students
Shuenn-Nan Chiu et al.
European Journal of Pediatrics
January 5, 2023

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

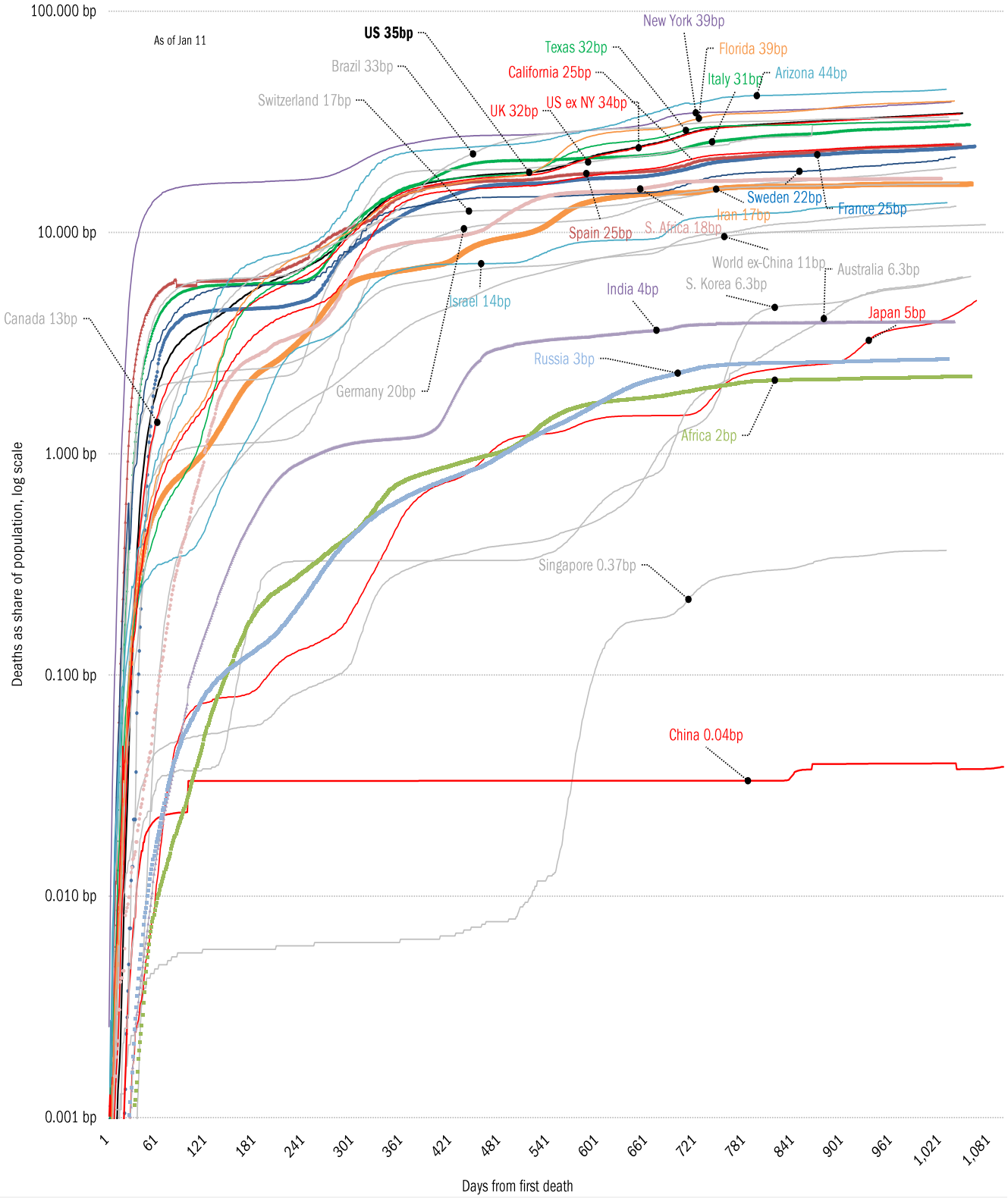
Share of infected population from first day with 100 confirmed cases, log scale



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

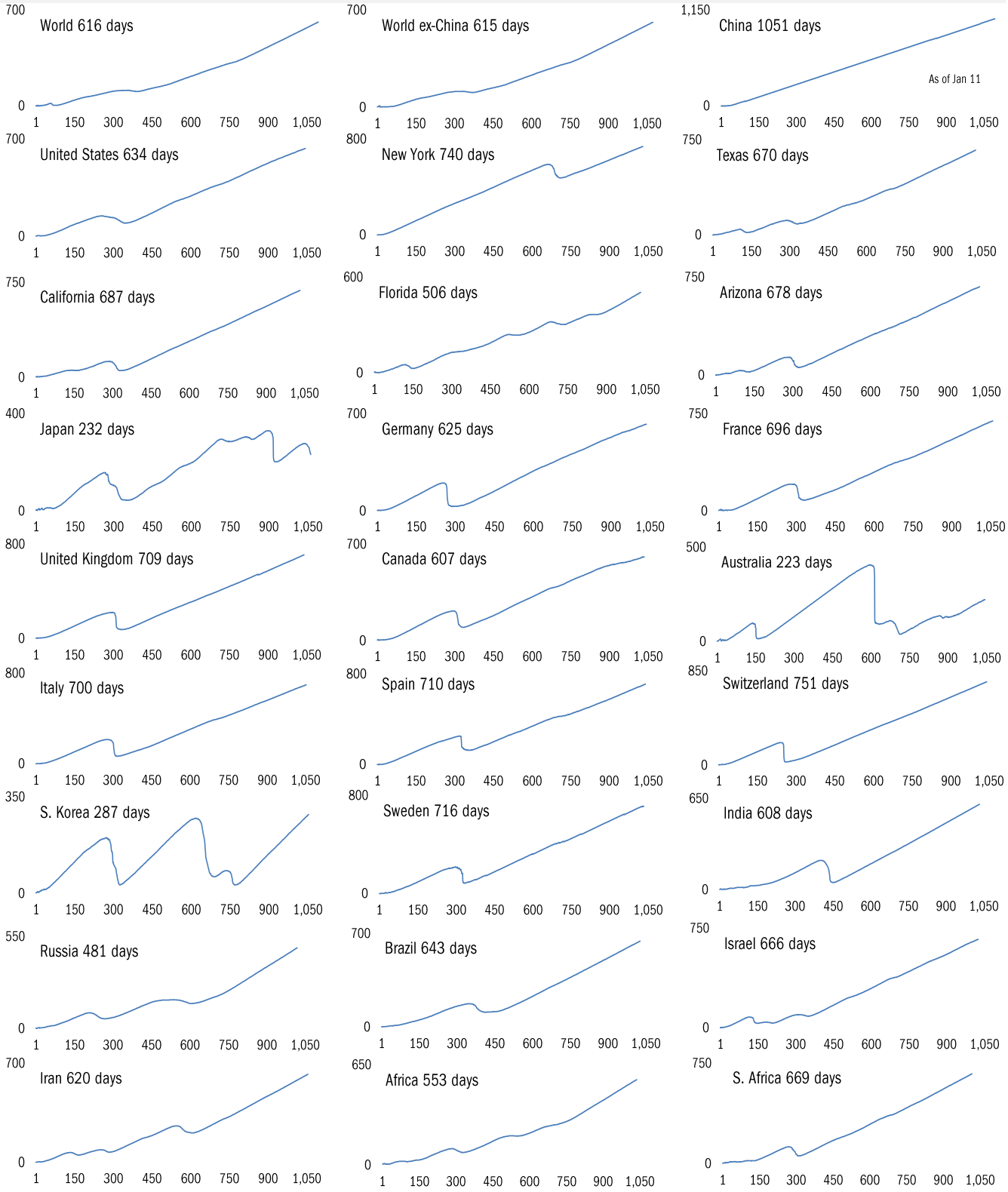


Source: Johns Hopkins, TrendMacro calculations

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

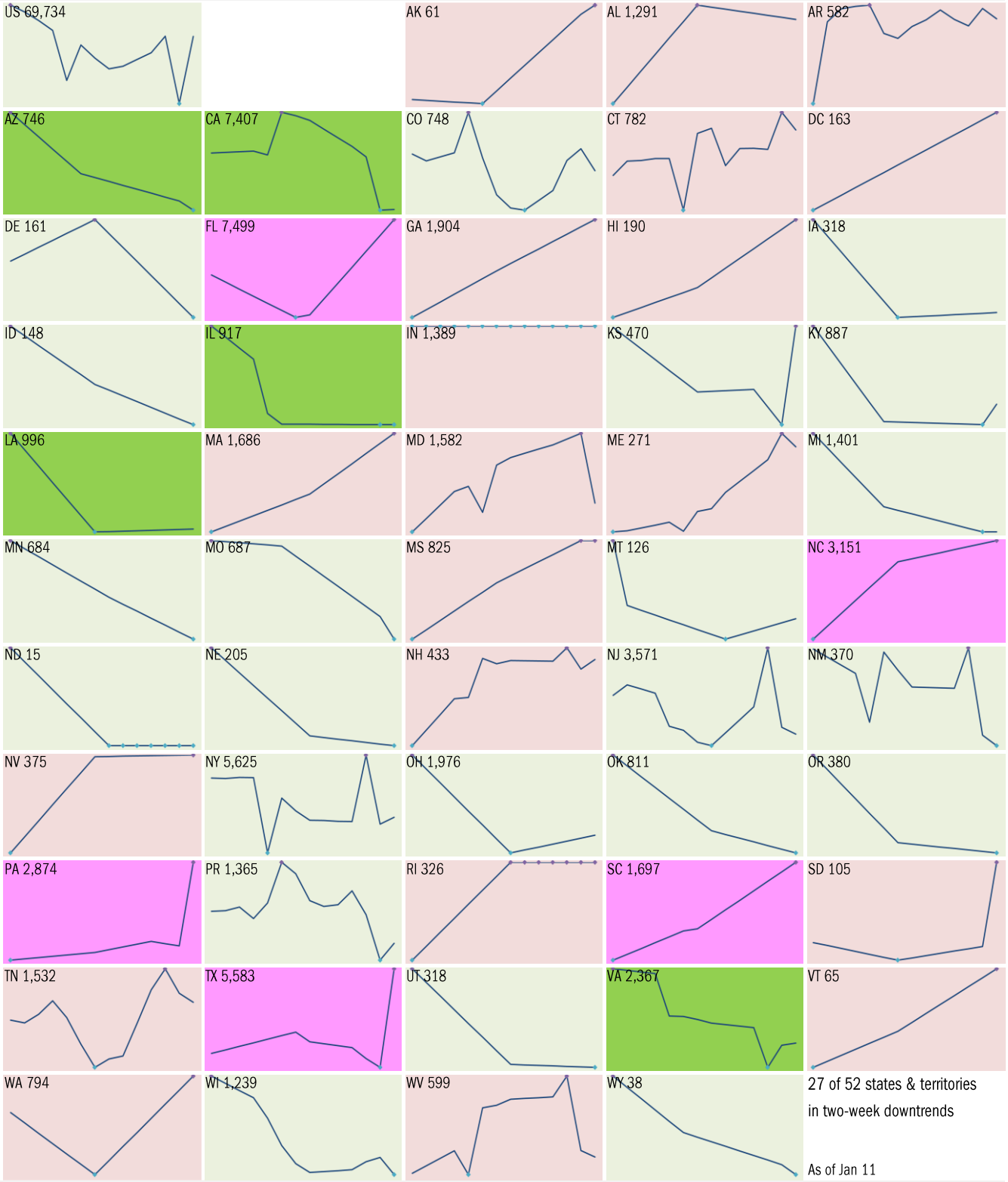


Source: Johns Hopkins, TrendMacro calculations

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

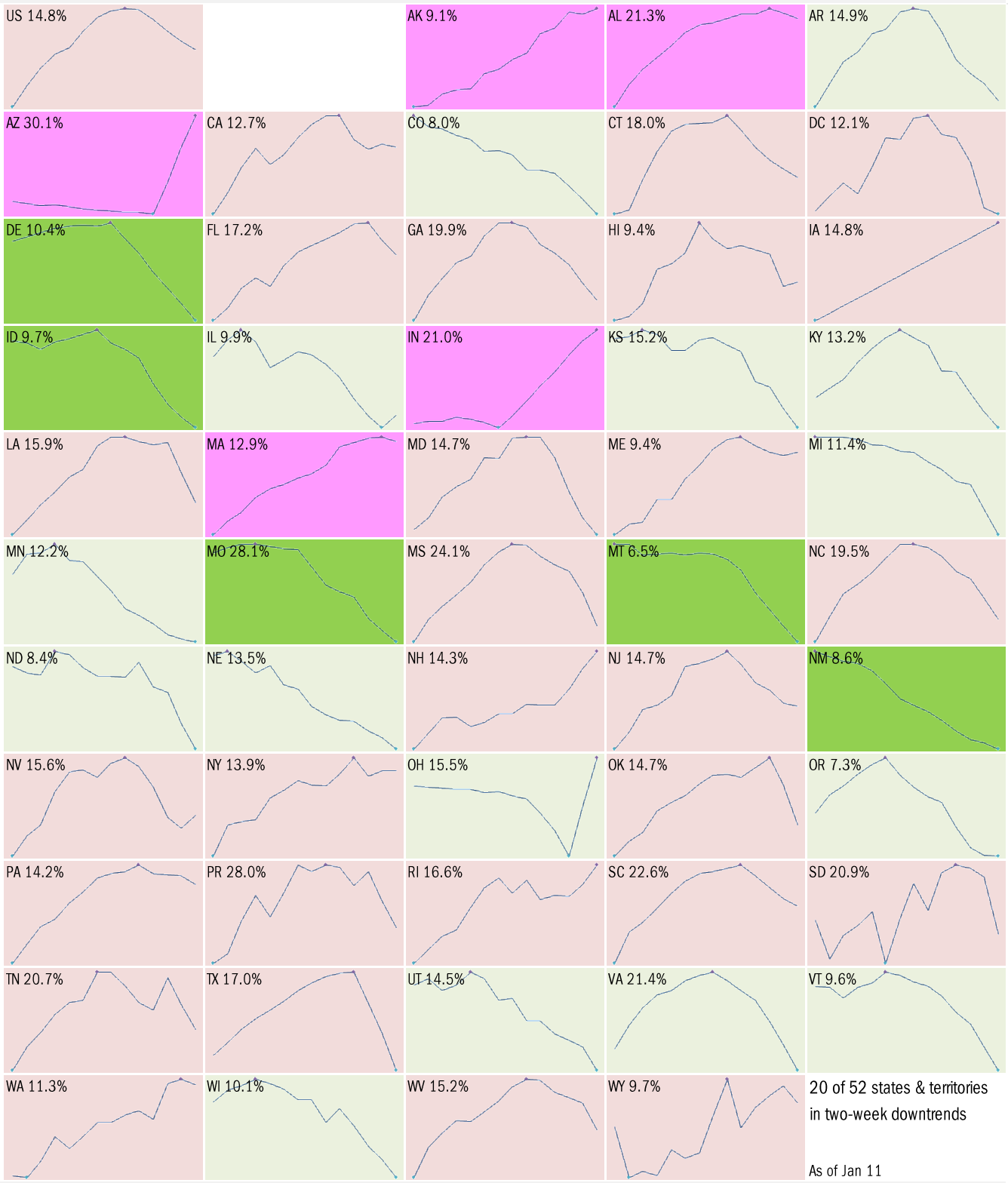


Source: Johns Hopkins, TrendMacro calculations

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

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

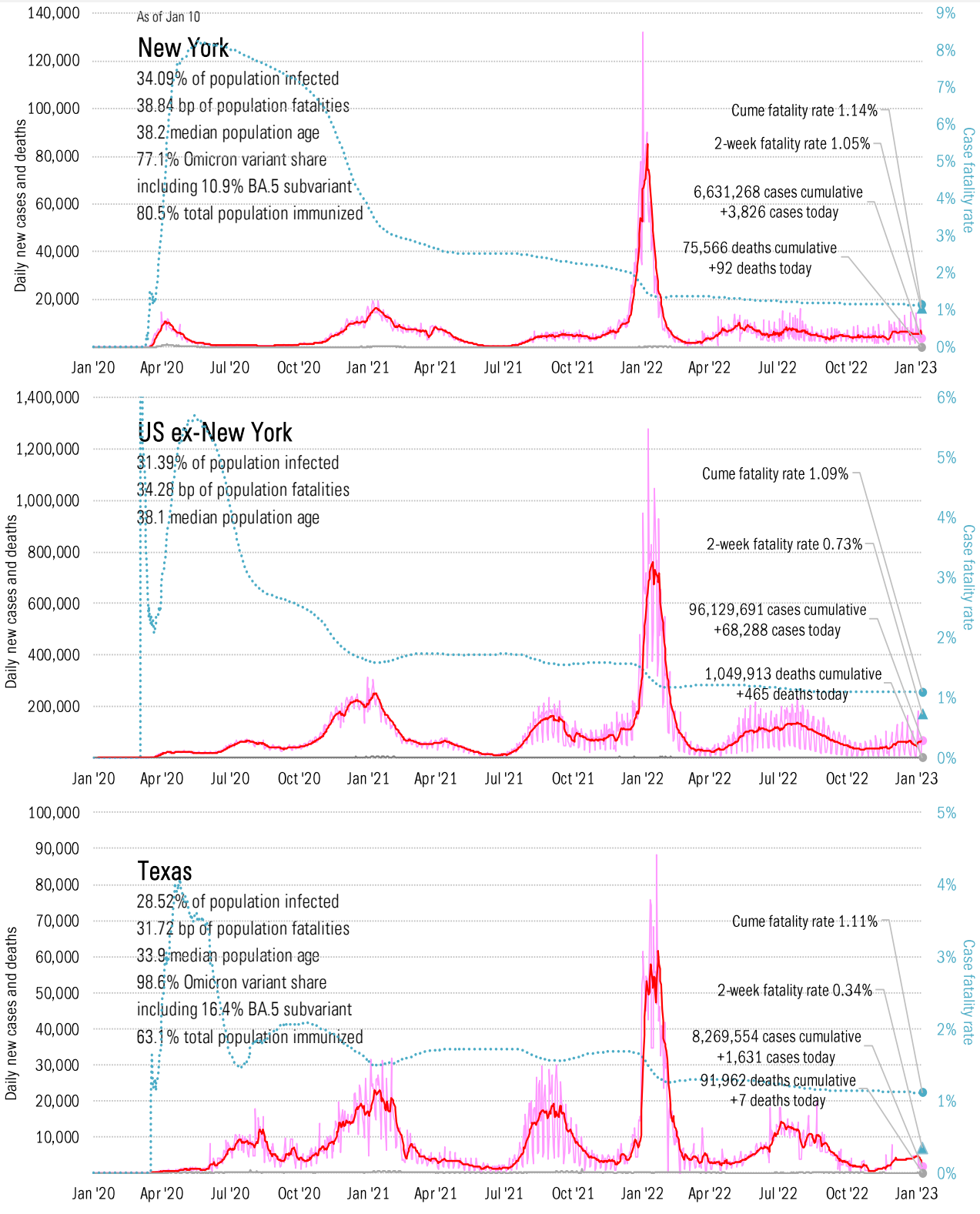
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

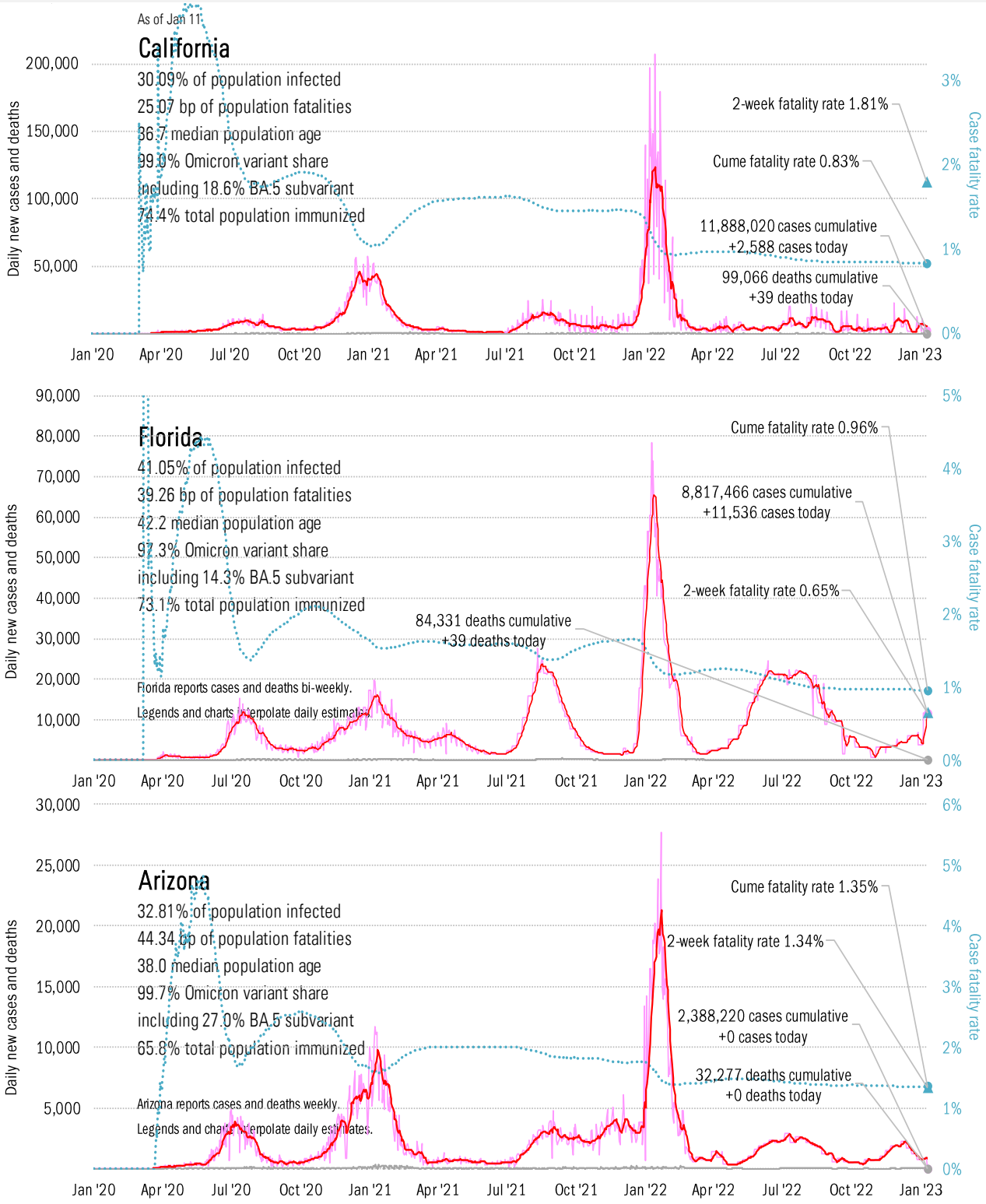
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

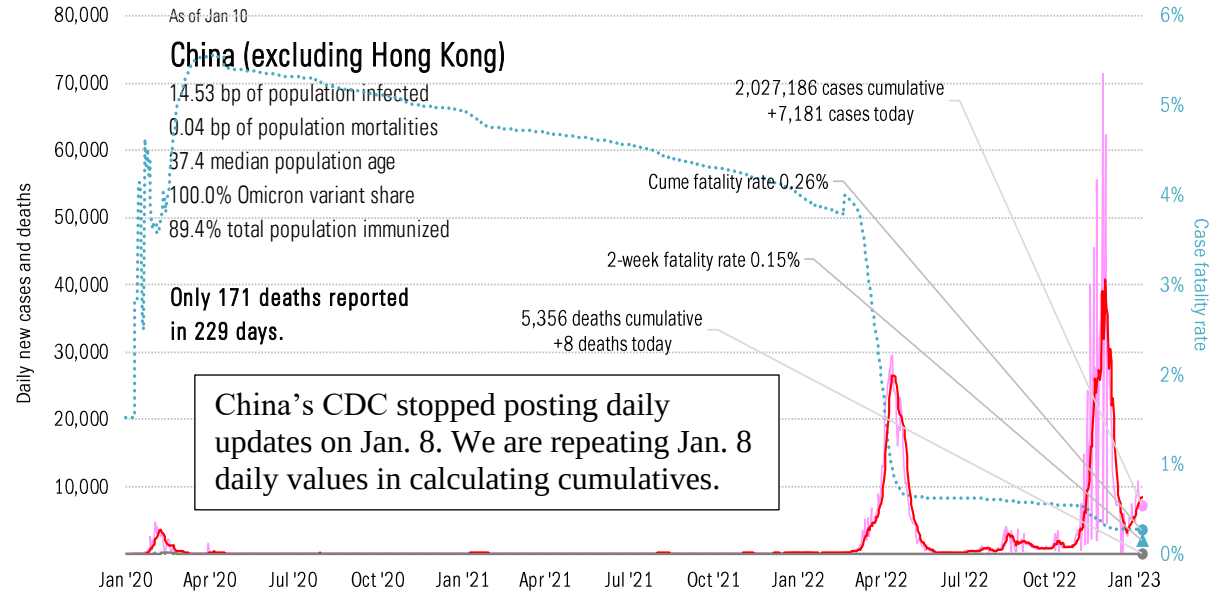
Cases: 7-day average and daily Deaths: Daily

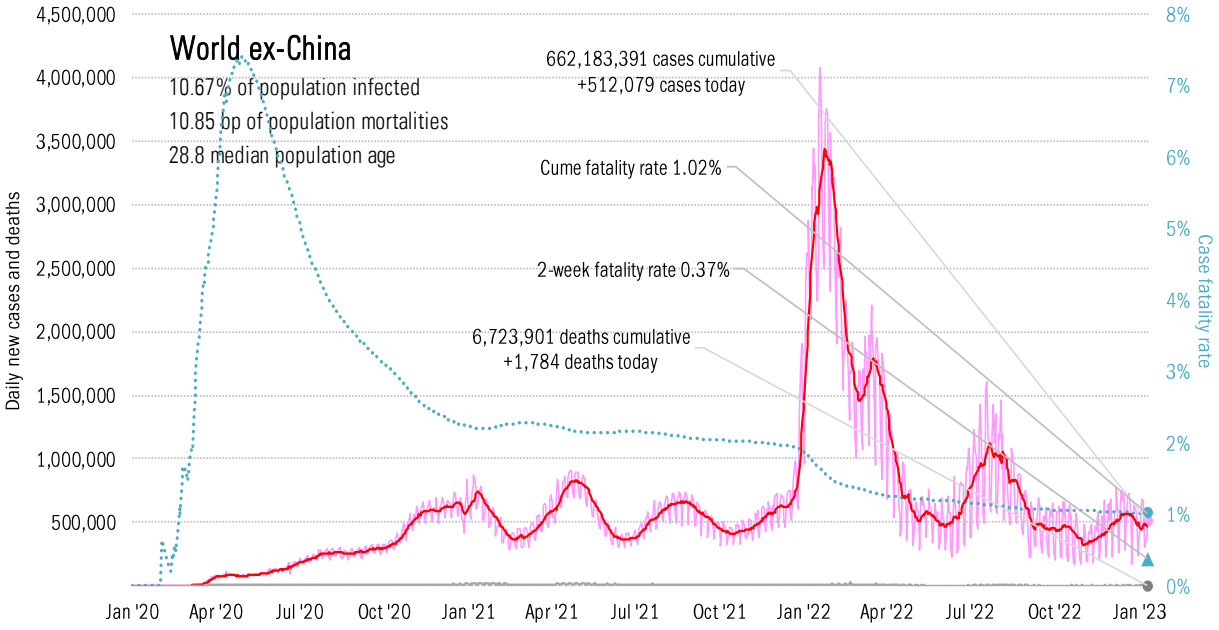


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

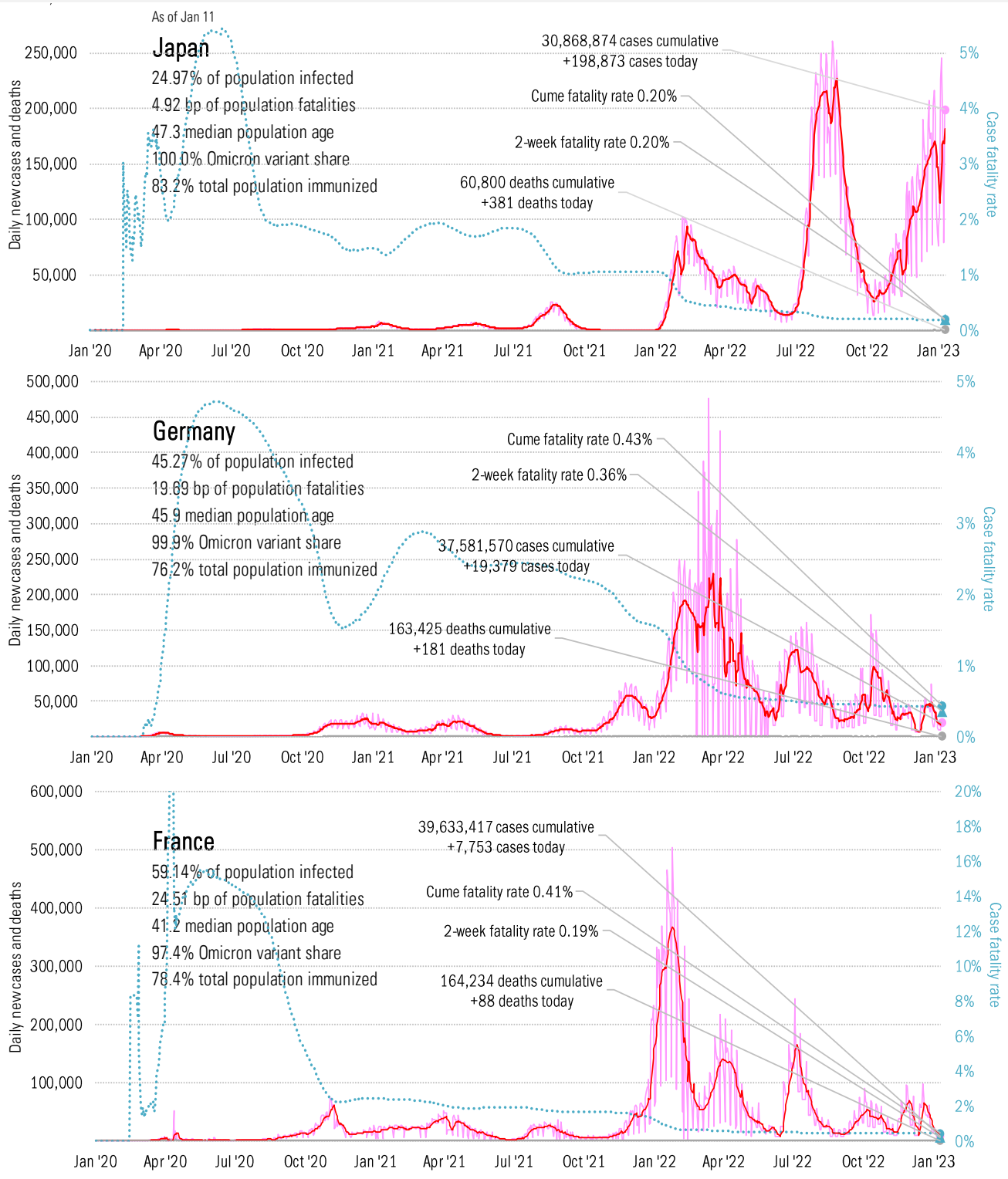




Source: Johns Hopkins, China CDC, TrendMacro calculations

Impact in the largest economies

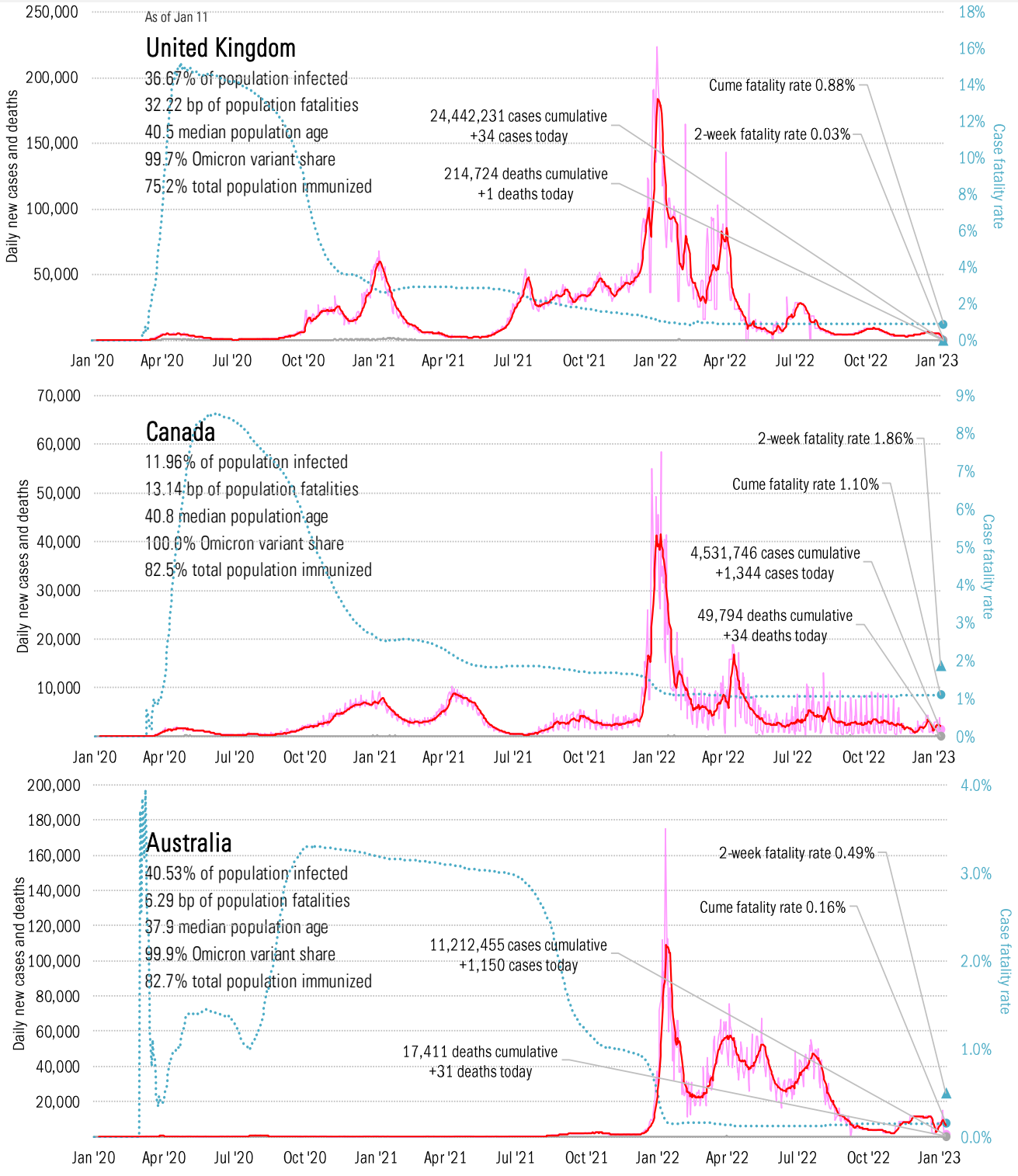
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

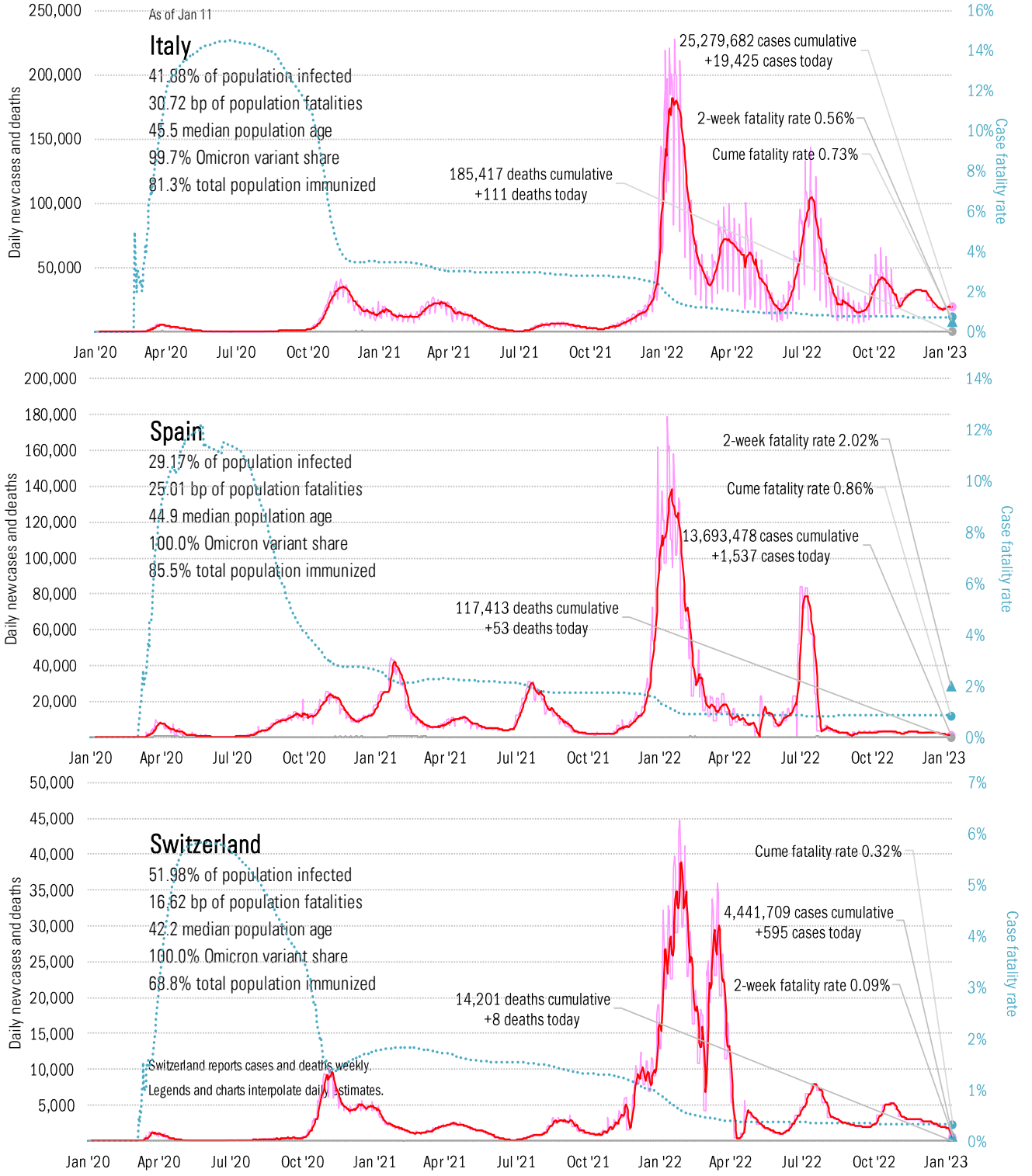
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

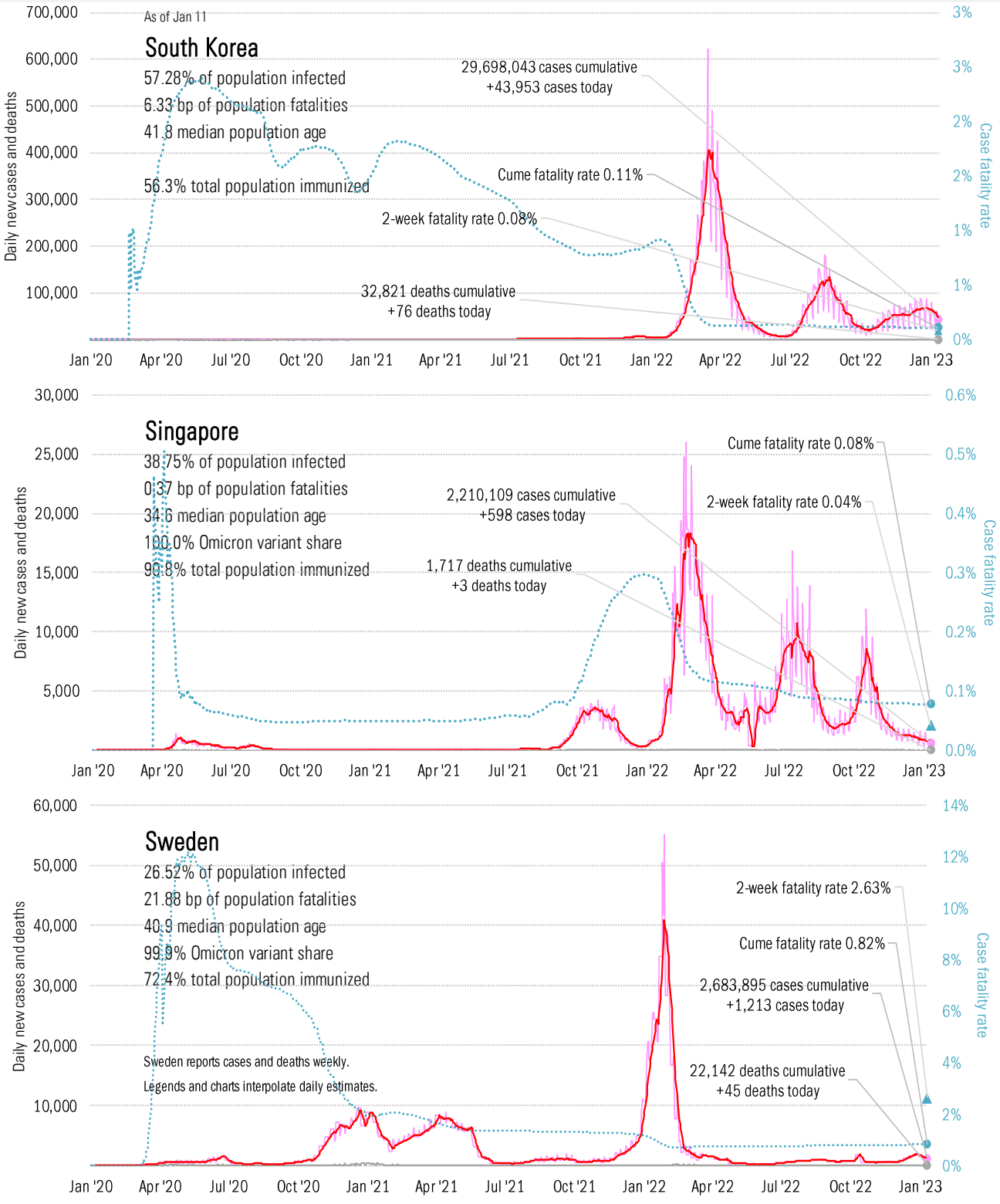
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

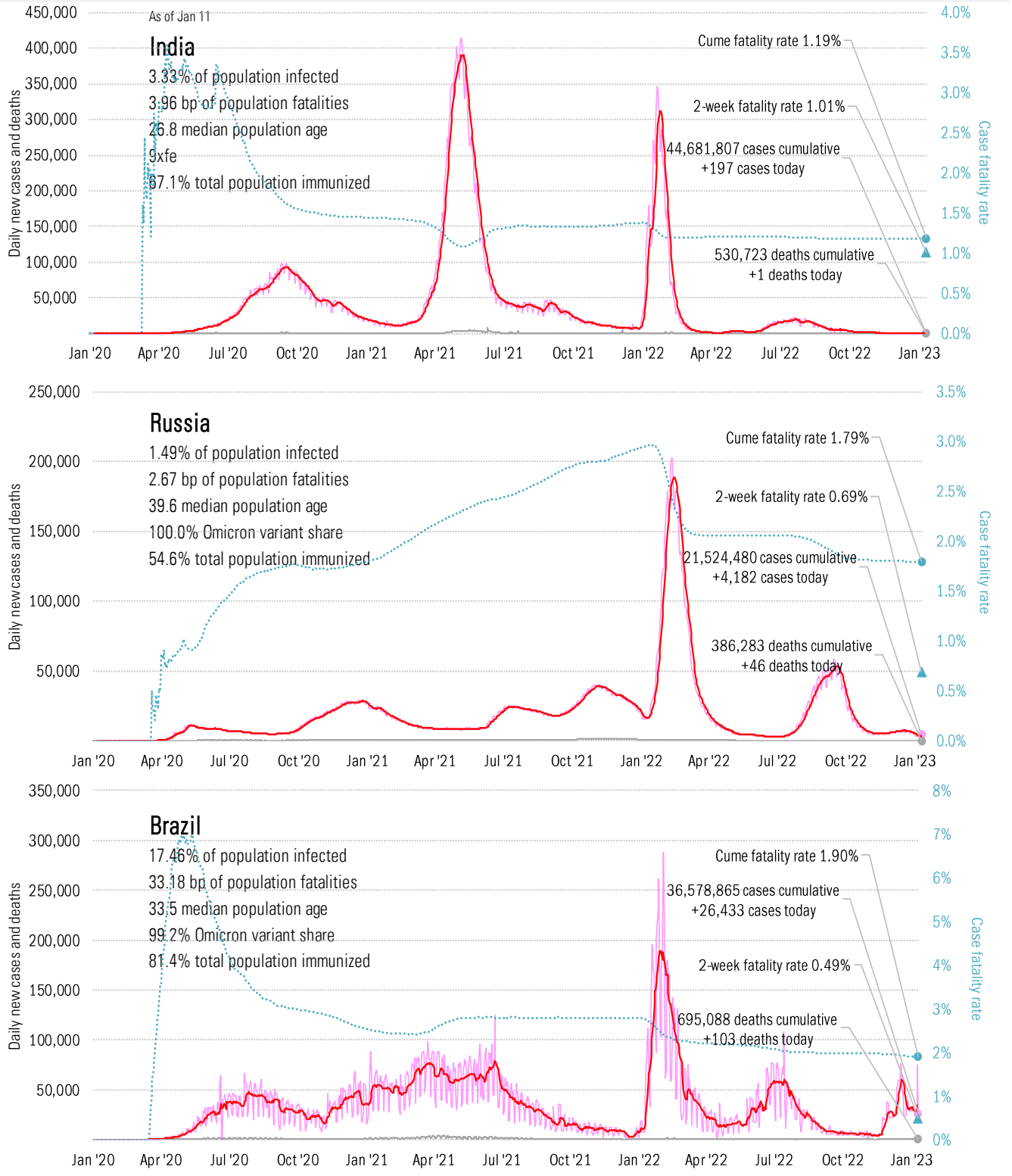
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

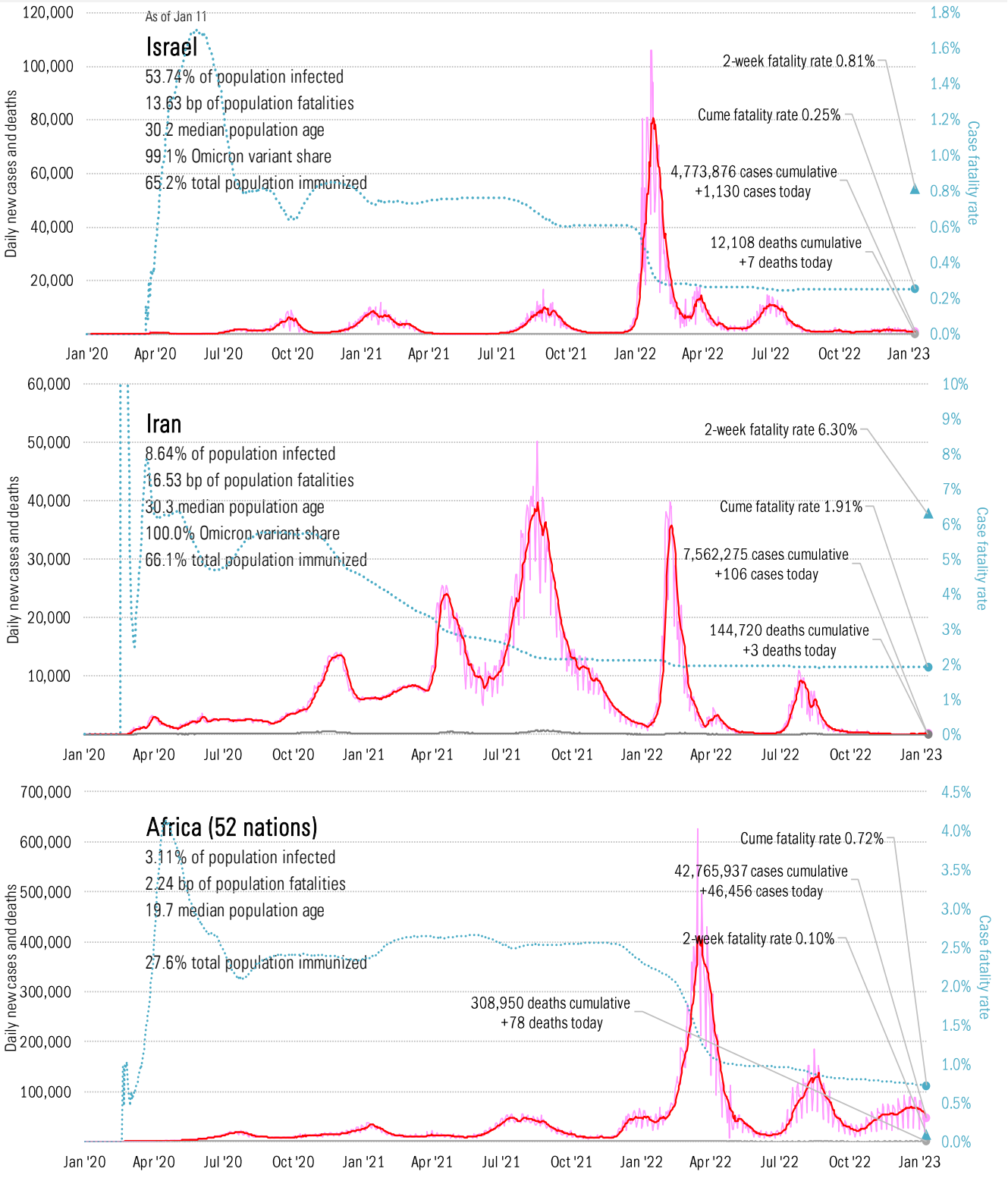
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

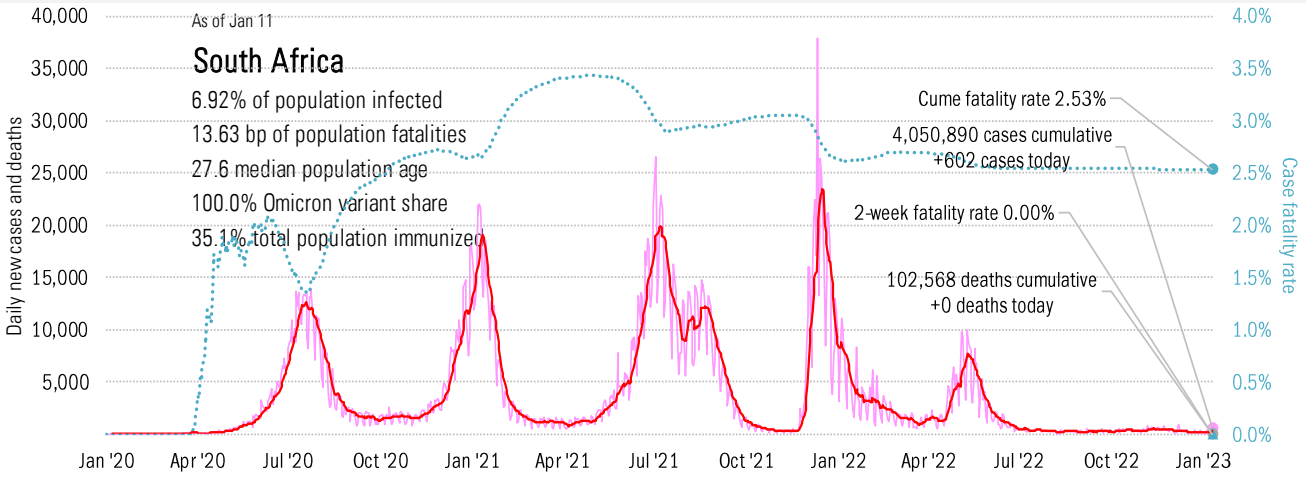
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations