Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

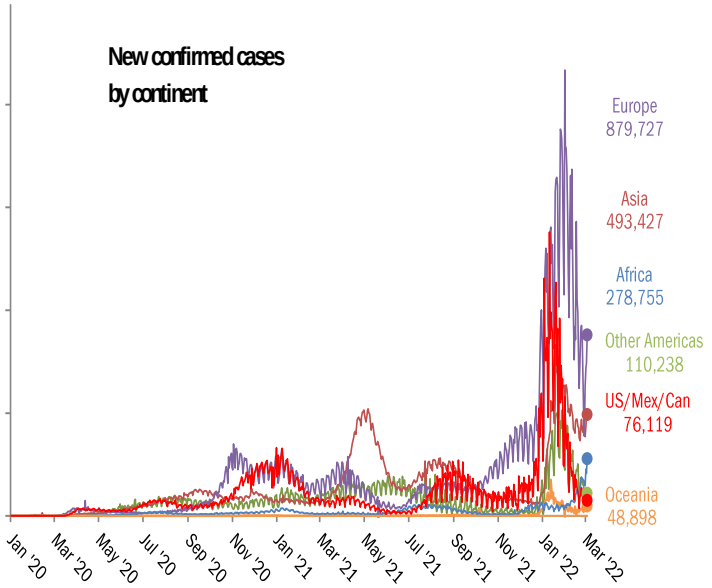
Friday, March 4, 2022

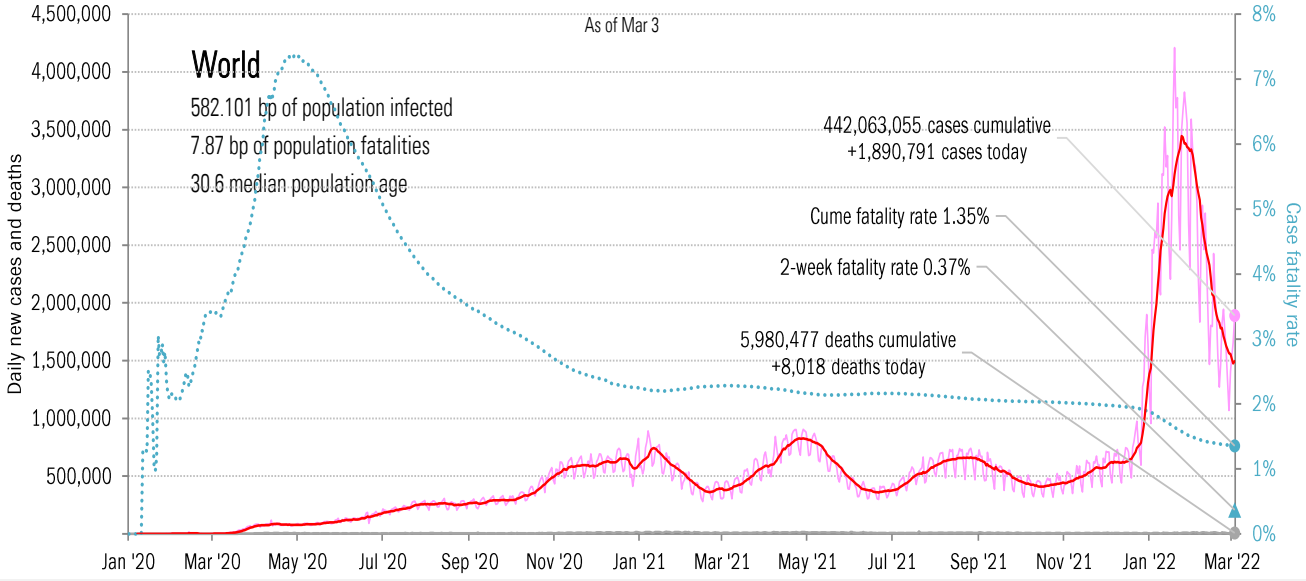
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Germany	356,864	United States	1,378
Korea, South	266,838	Russia	770
Vietnam	176,150	Brazil	570
Russia	91,934	Germany	490
Japan	70,268	Mexico	304
France	61,742	Chile	272
Brazil	60,177	Poland	266
Netherlands	58,361	Japan	258
China	57,121	Indonesia	232
United States	55,919	Spain	202
	1,255,374		4,742
World	1,890,791	World	8,018
Top ten	66%	Top ten	59%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

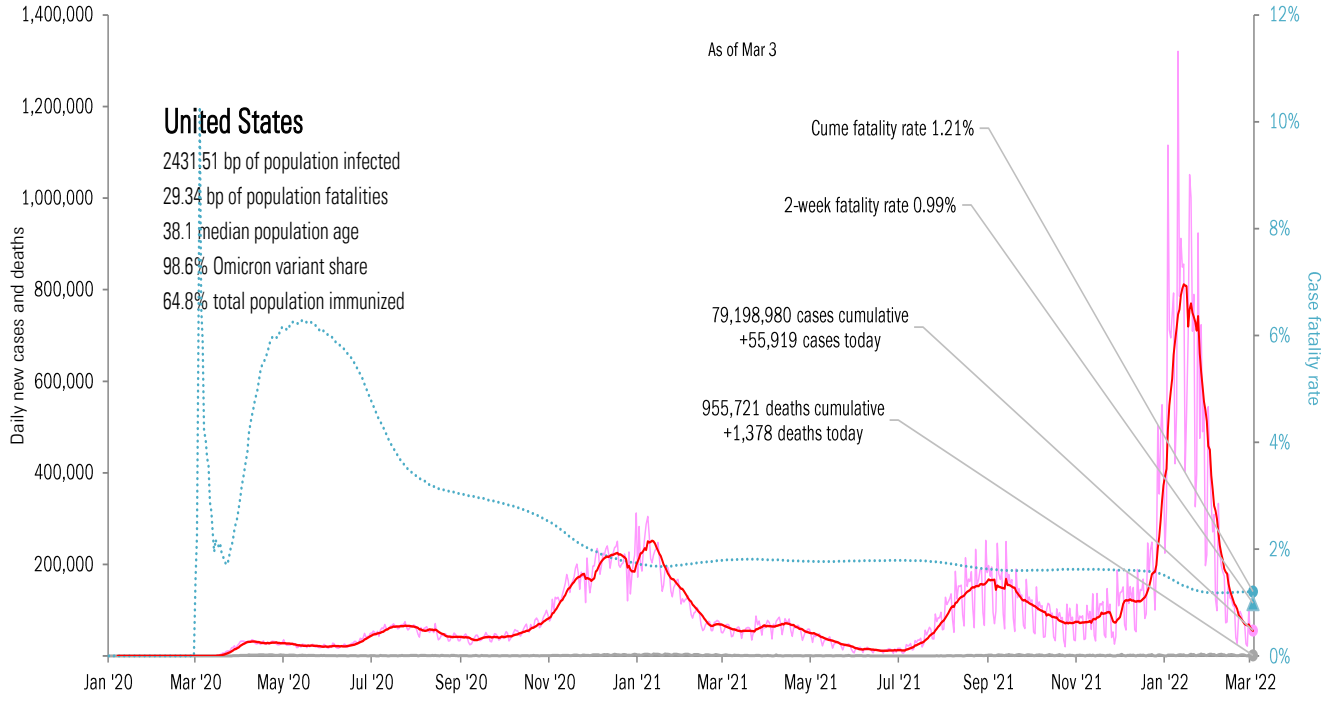
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	10,290	CA	199	ND	10	CA	8,997,446	CA	86,026	TX	481,297	RI	86%	TX	86%
TX	4,245	FL	177	MI	7	TX	6,630,636	TX	85,378	CA	416,019	MA	86%	KY	86%
AZ	3,879	TX	118	DC	6	FL	5,847,068	FL	70,249	FL	409,400	MN	84%	AL	85%
FL	3,627	GA	107	IN	5	NY	4,930,987	NY	67,479	NY	242,113	WV	84%	NM	84%
NY	2,390	AL	72	NH	4	IL	3,035,870	PA	43,486	GA	203,053	GA	84%	AK	84%
NC	2,377	TN	69	NE	2	PA	2,760,952	OH	36,822	OH	188,187	WA	83%	AR	83%
KY	2,242	PA	65	MN	1	OH	2,657,358	GA	35,708	PA	173,466	MO	83%	MS	83%
TN	1,673	OK	56	GU	0	NC	2,595,368	IL	35,319	IL	154,512	DC	82%	NV	82%
VA	1,644	NC	54	MP	0	GA	2,469,089	MI	34,766	MI	138,764	MD	82%	NH	81%
ID	1,442	WI	52	MT	0	MI	2,363,519	NJ	32,982	KY	138,496	NH	81%	OK	81%
	33,809		969		35		42,288,293		528,215		2,545,307				
All states	55,919		1,378		-1,069	All states	79,198,980		955,721		4,615,970	All states	70%		67%
Top ten	60%		70%		-3%	Top ten	53%		55%		55%	Median	77%		76%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-3,120	MI	-261	GA	-219	NC	+20 bp
WA	-3,023	AZ	-238	WA	-26	AZ	+10 bp
KS	-1,059	TX	-92	KY	-25	DE	+10 bp
LA	-739	WA	-88	WI	-22	IA	+10 bp
AK	-591	IA	-86	AK	-16	KS	+10 bp



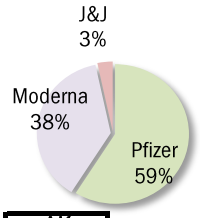
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	569,117,315				+0.198 million
Boosters	96,016,838				+0.110 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	261,437,356	78%	222,112,007	66%	+0.059 million
Age 12 to 17	17,352,947	69%	14,779,823	58%	+0.007 million
Age 18 to 64	176,220,699	87%	149,422,937	73%	+0.034 million
Age 65 and over	58,205,719	100%	50,366,547	92%	+0.004 million

Immunity	Full	Partial
US	64.8%	76.5%
UK	71.9%	77.2%
France	77.6%	80.0%
Spain	83.6%	87.9%
Germany	74.9%	75.7%
Italy	78.8%	83.9%
Australia	79.5%	85.6%
Israel	65.9%	72.1%
Canada	81.3%	85.6%
Japan	79.6%	80.7%
Africa	12.2%	18.5%
India	57.1%	69.4%
Brazil	72.6%	83.2%
China	85.5%	87.9%

Global data differs due to sources, timing



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

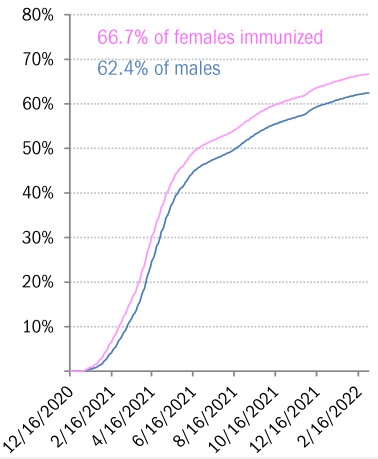
"Immunity" = two doses

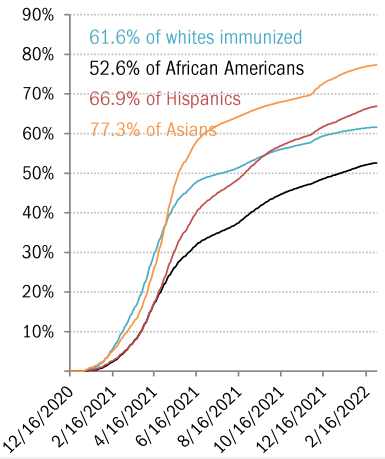
Best
Middle
Worst

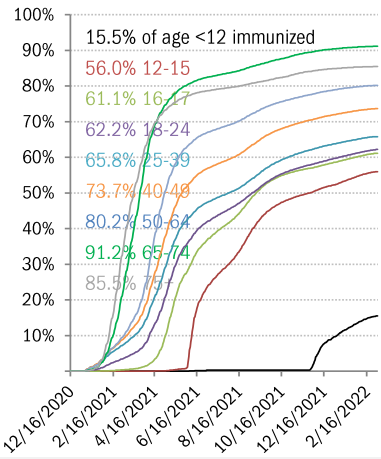
As of Mar 3

					WI					ME
					71.1%					89.3%
					64.7%					78.4%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
79.8%	60.4%	64.5%	64.5%	74.4%	76.1%	66.2%		89.1%	92.8%	95.0%
71.5%	53.2%	56.0%	54.5%	68.3%	67.6%	59.3%		75.6%	80.2%	69.4%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
77.0%	74.1%	58.0%	75.0%	67.3%	60.7%	62.9%	83.5%	89.1%	95.0%	
68.8%	59.8%	50.7%	60.0%	61.2%	54.1%	57.7%	67.1%	74.4%	77.7%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
81.8%	71.2%	78.4%	69.4%	65.4%	65.3%	64.2%	84.6%	85.0%	94.0%	95.0%
70.5%	63.3%	69.3%	62.6%	55.2%	56.5%	56.8%	72.1%	74.2%	77.9%	80.8%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	71.6%	86.1%	73.5%	65.8%	61.4%	82.4%	66.6%	95.0%	81.8%	
	60.2%	69.7%	60.3%	53.6%	53.7%	59.4%	56.0%	71.7%	67.7%	
			OK	LA	MS	AL	GA			
			70.0%	60.2%	58.8%	61.9%	64.4%			
			56.1%	52.6%	51.0%	50.3%	53.7%			
HI			TX					FL		PR
86.3%			71.2%					78.1%		95.0%
77.3%			60.2%					66.0%		81.5%

The demographics of US vaccination



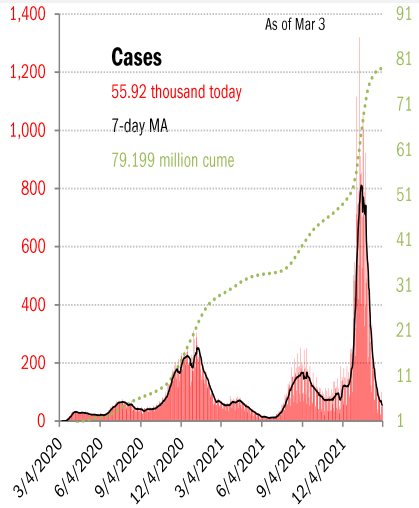


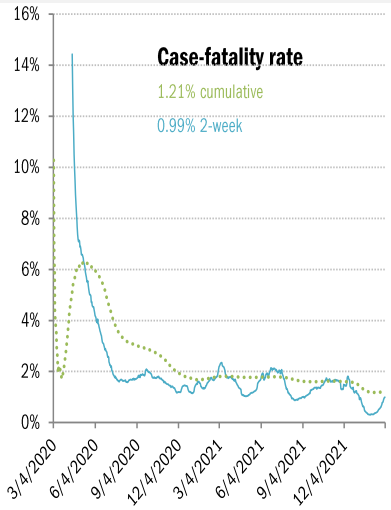


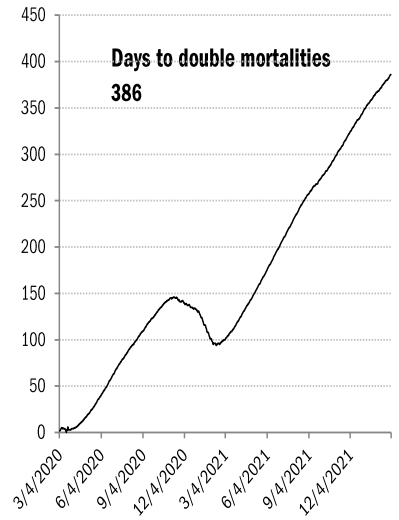
Source: CDC, CDC, Our World in Data, TrendMacro calculations

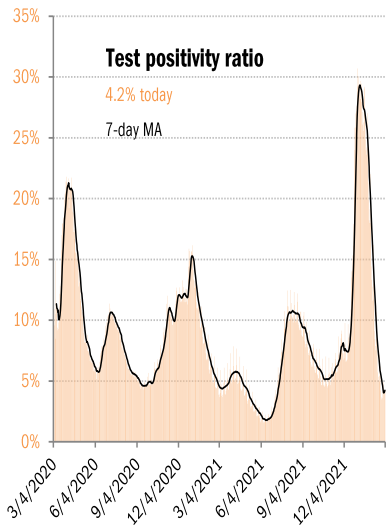
US deep-dive

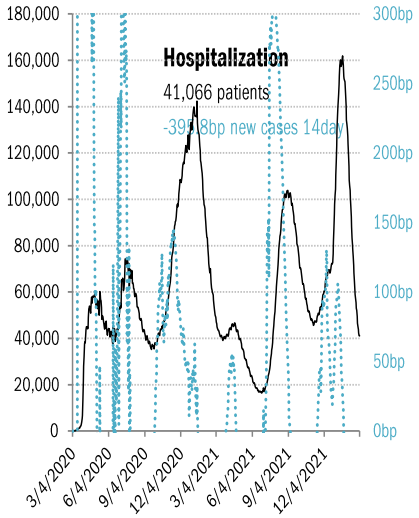
National and state-by-state data do not line up because of different sources

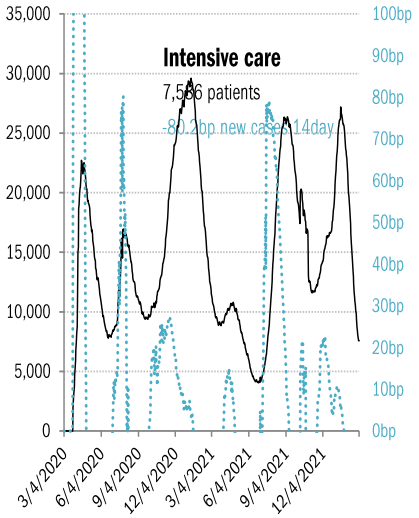


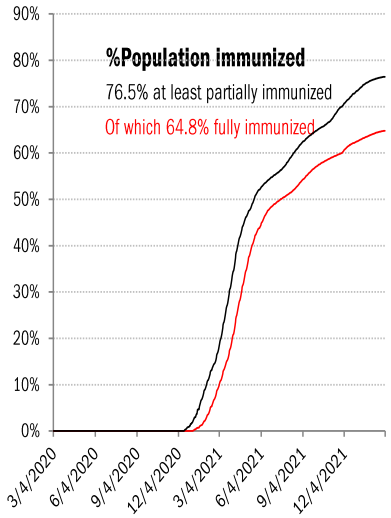












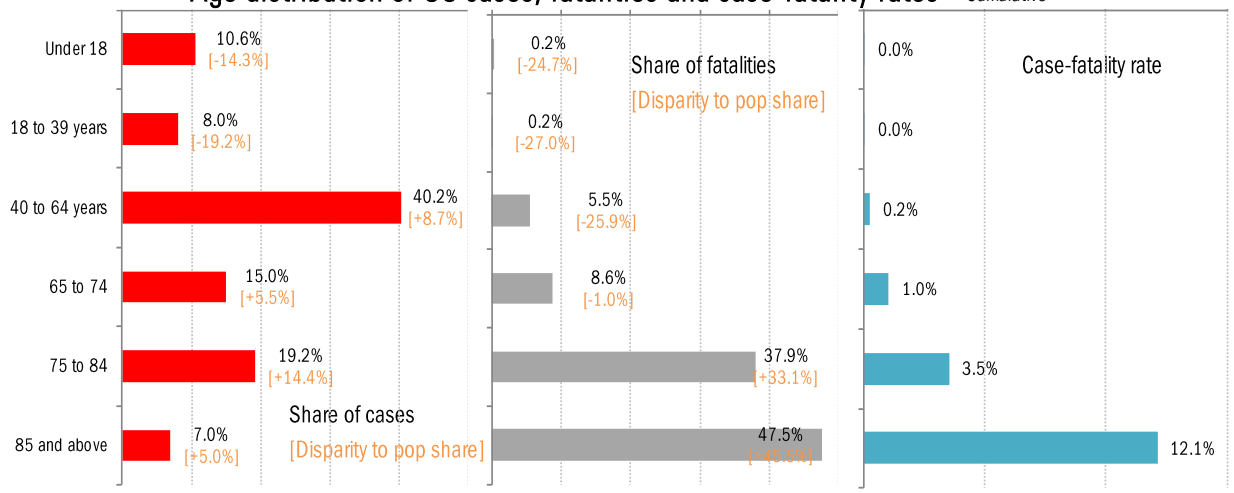
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

US deep-dive on the demographics of age, race and health

Updates weekly on Sundays

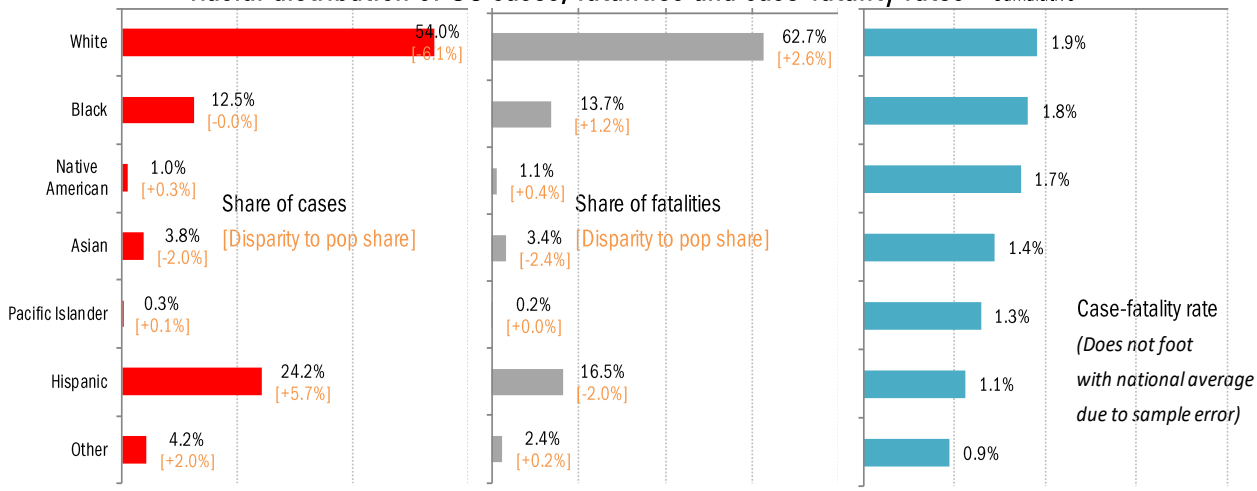
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



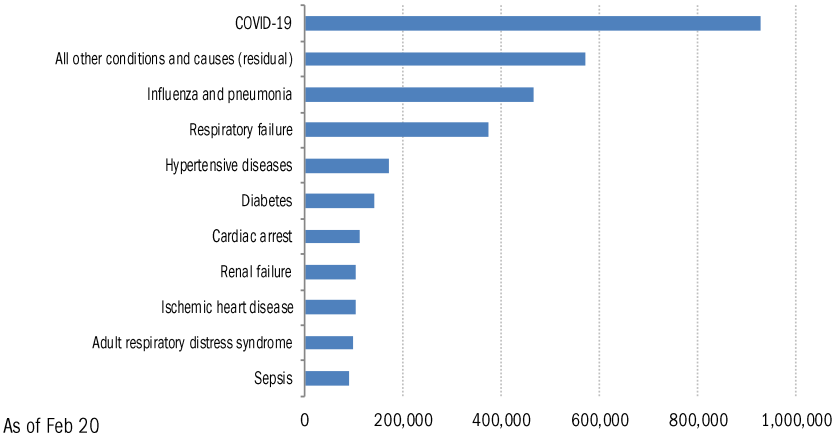
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Feb 20

The CDC website now omits the following text, which had been included every day for over a year:

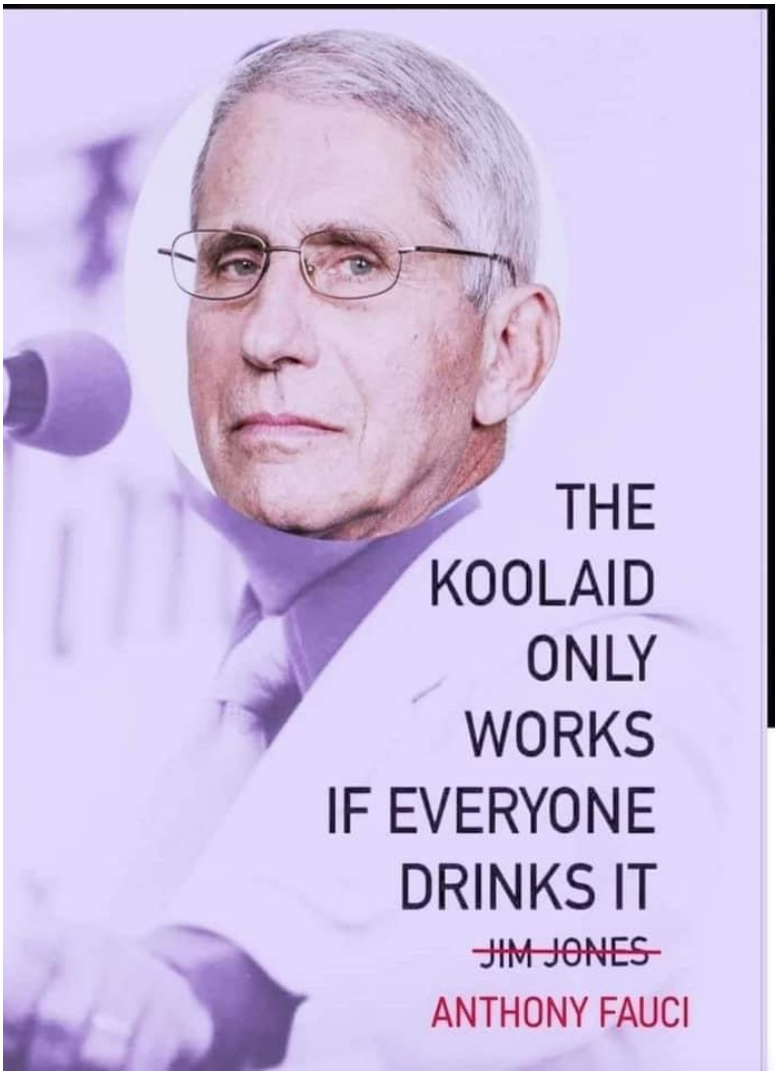
For over 5% of these deaths, COVID-19 was the only cause mentioned on the death certificate. For deaths with conditions or causes in addition to COVID-19, on average, there were 4.0 additional conditions or causes per death.

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

Top U.S. health officials say they intend to offer other nations tech that might be used against Covid.
Sheryl Gay Stolberg
New York Times
March 4, 2022

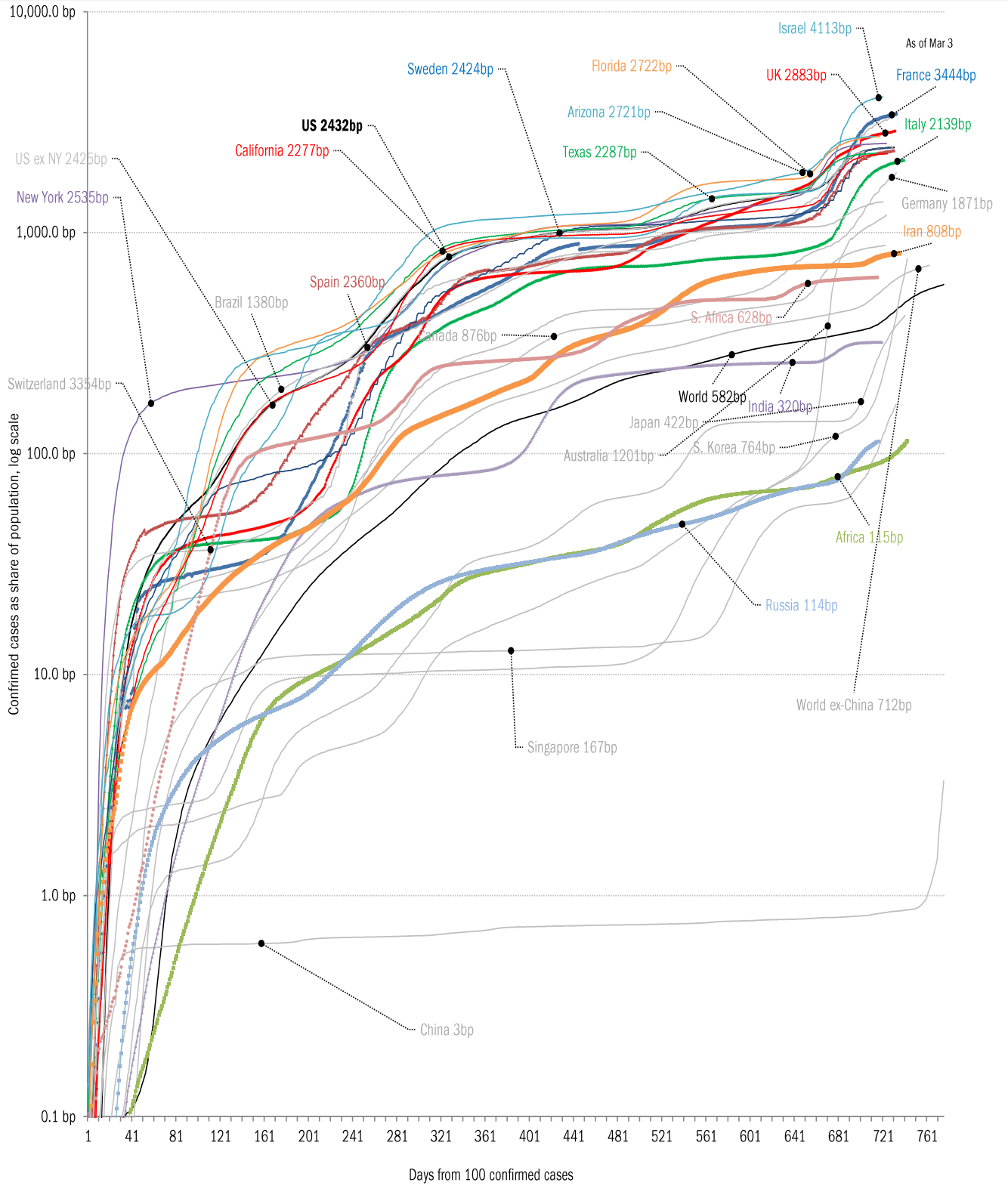
Meme of the day



Source: Our beloved clients, Power Line blog "The Week in Pictures" and CTUP

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

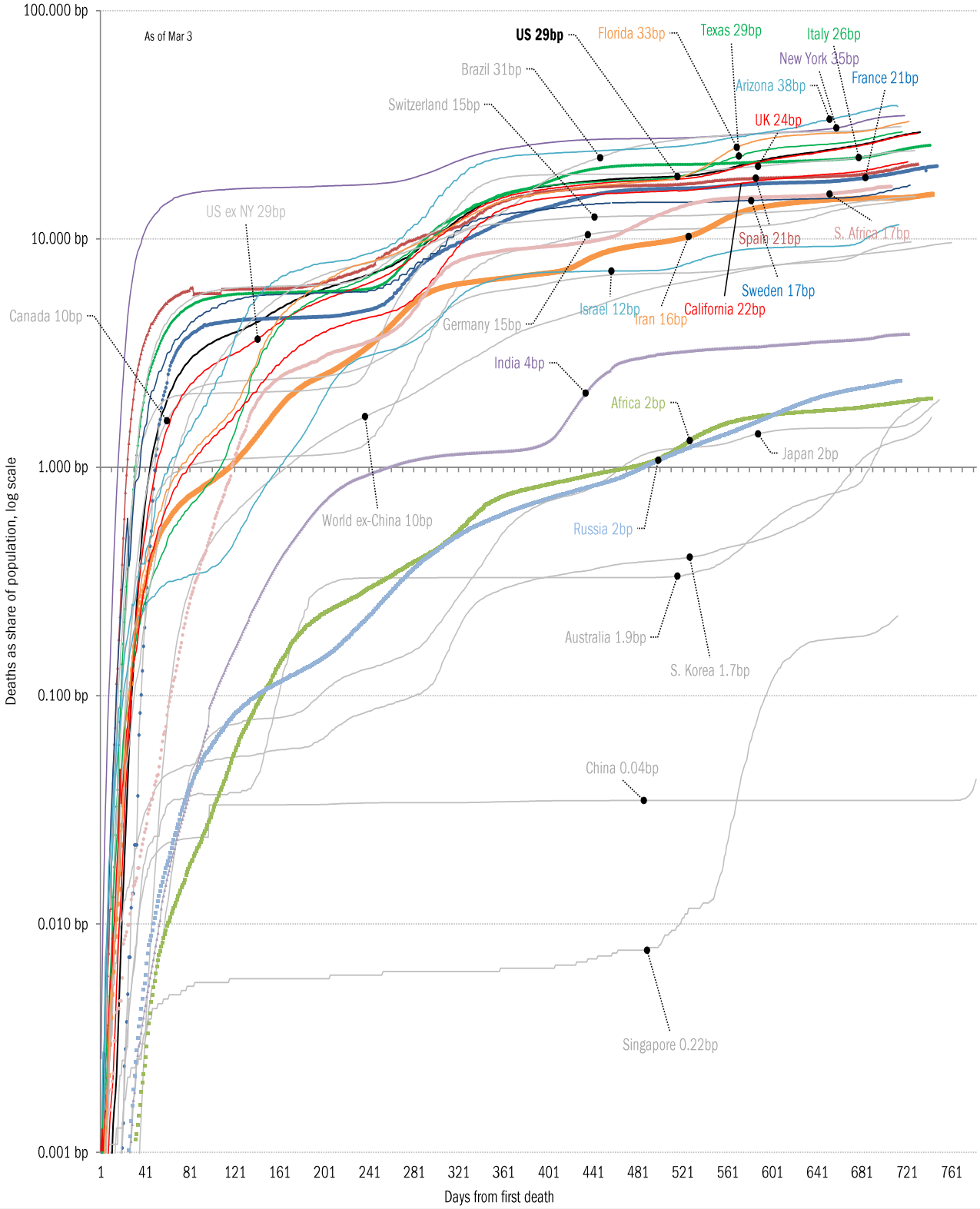
Share of infected population from first day with 100 confirmed cases, log scale



Source: Johns Hopkins, TrendMacro calculations

The coronavirus mortality accelerometer … tracking the world's fatality curves

Share of deceased population from day of first fatality, log scale

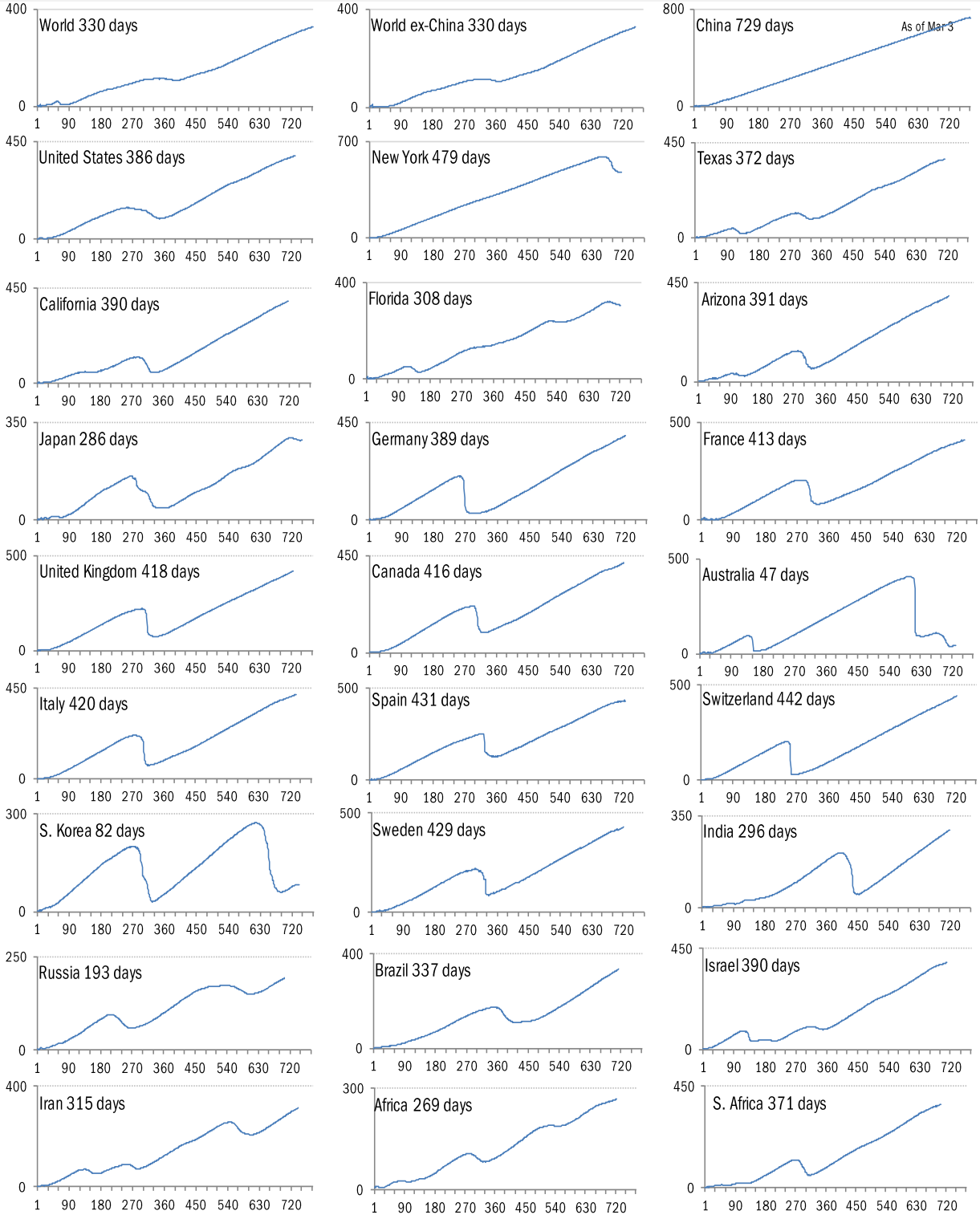


Source: Johns Hopkins, TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

Vertical: days to double deaths Horizontal: days from first death

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

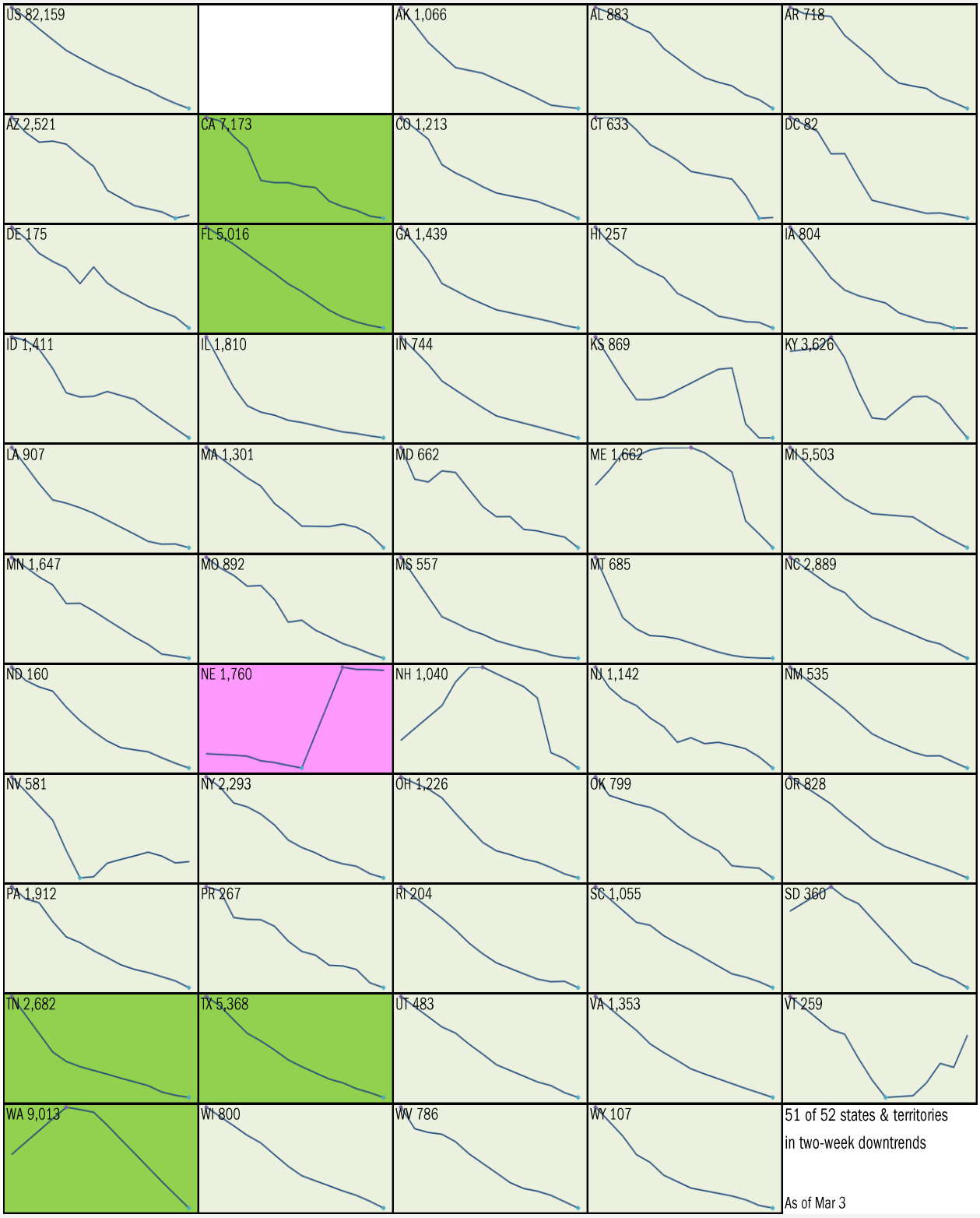


Source: Johns Hopkins, TrendMacro calculations

Requirement to Open Up America Again: 14-day "downward 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

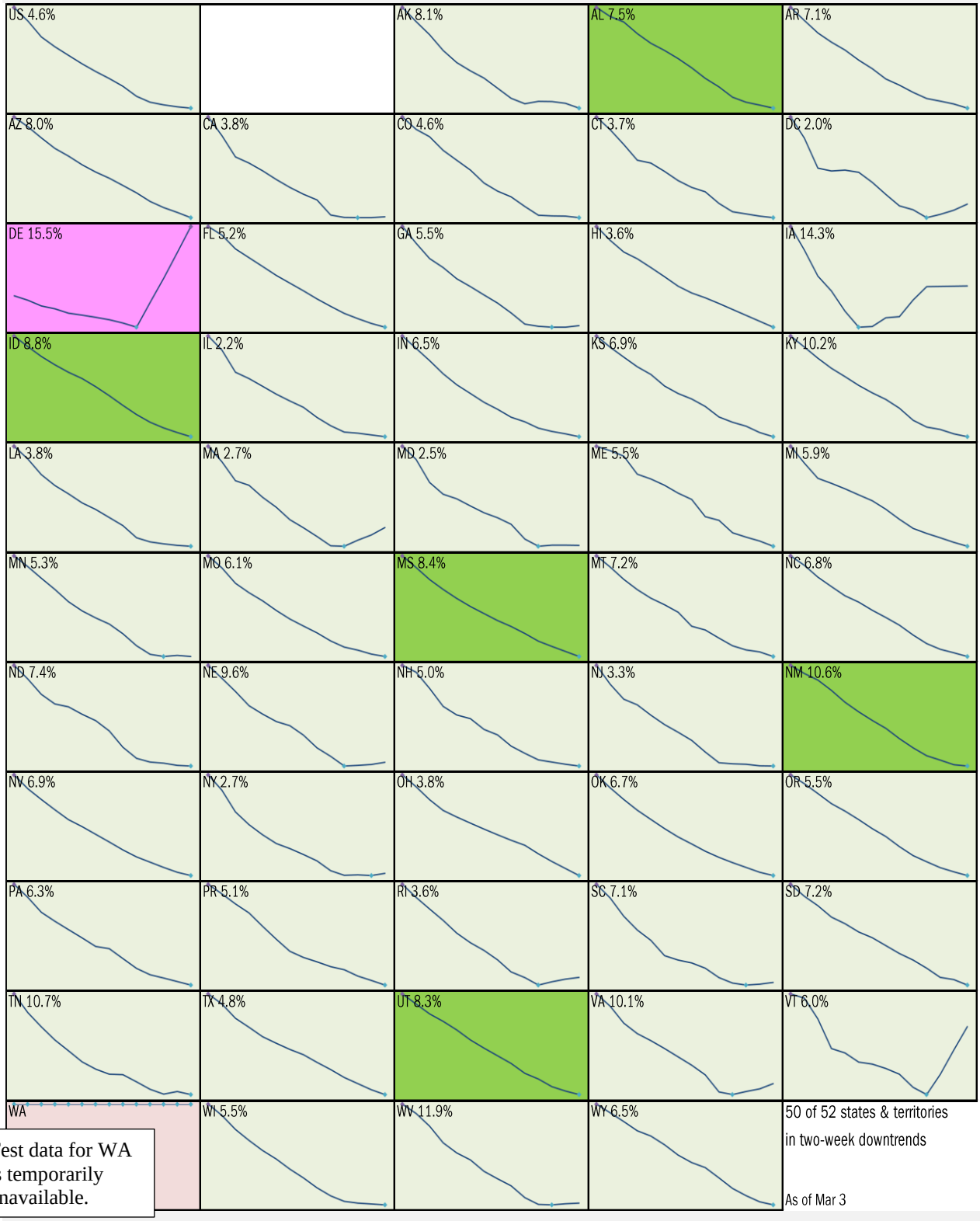


Source: Johns Hopkins, TrendMacro calculations

Alt requirement to Open Up America Again: 14-day "downward trajectory" in pos tests

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

Downward trajectory | Five best | Upward trajectory | Five worst

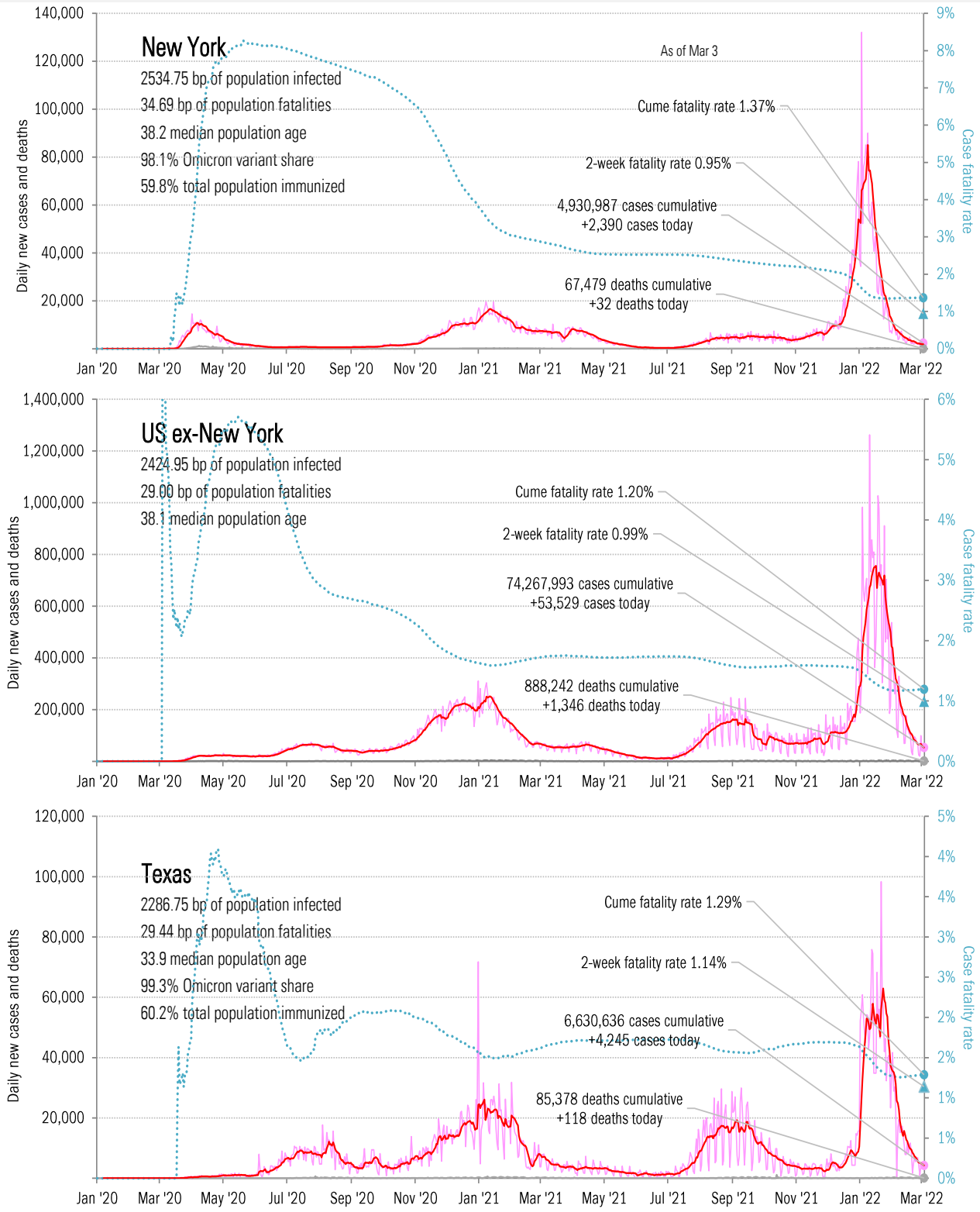


Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

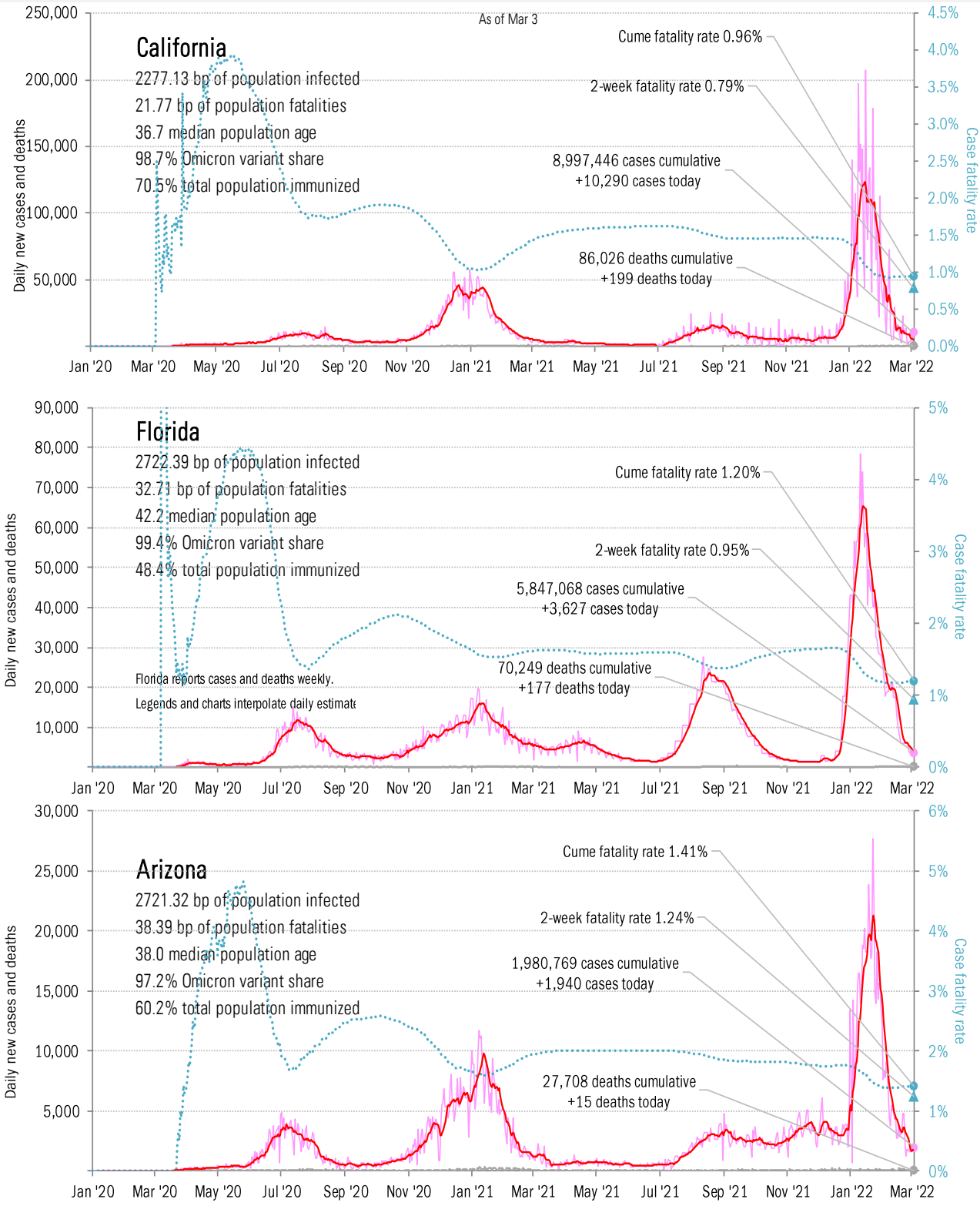
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

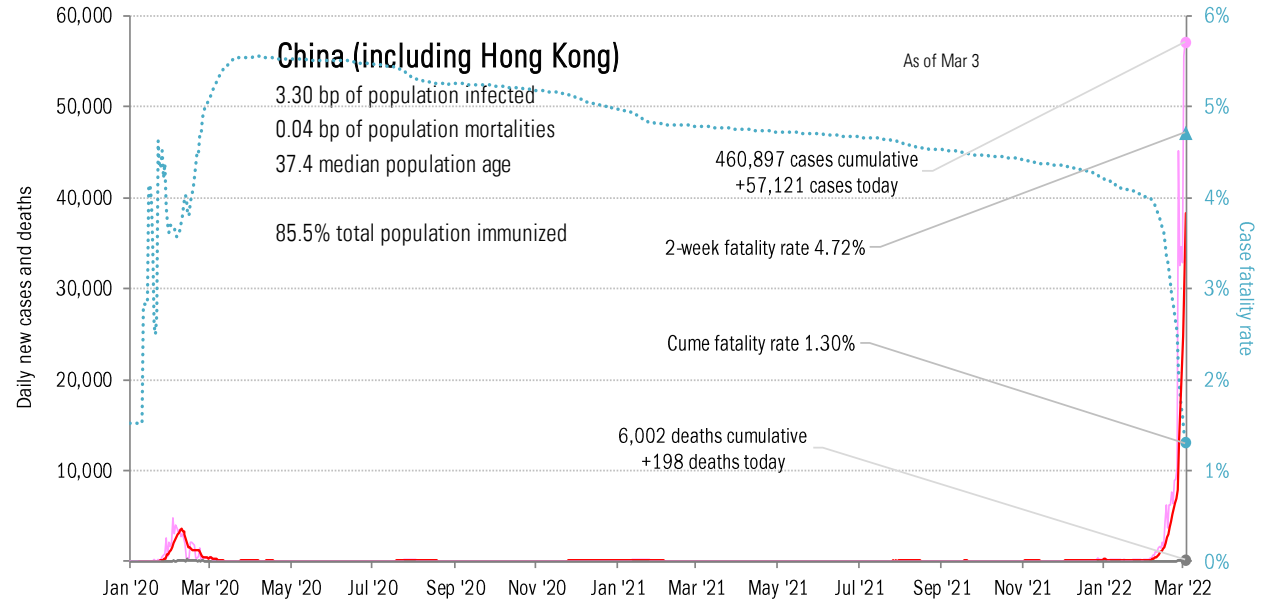
Cases: 7-day average and daily Deaths: Daily

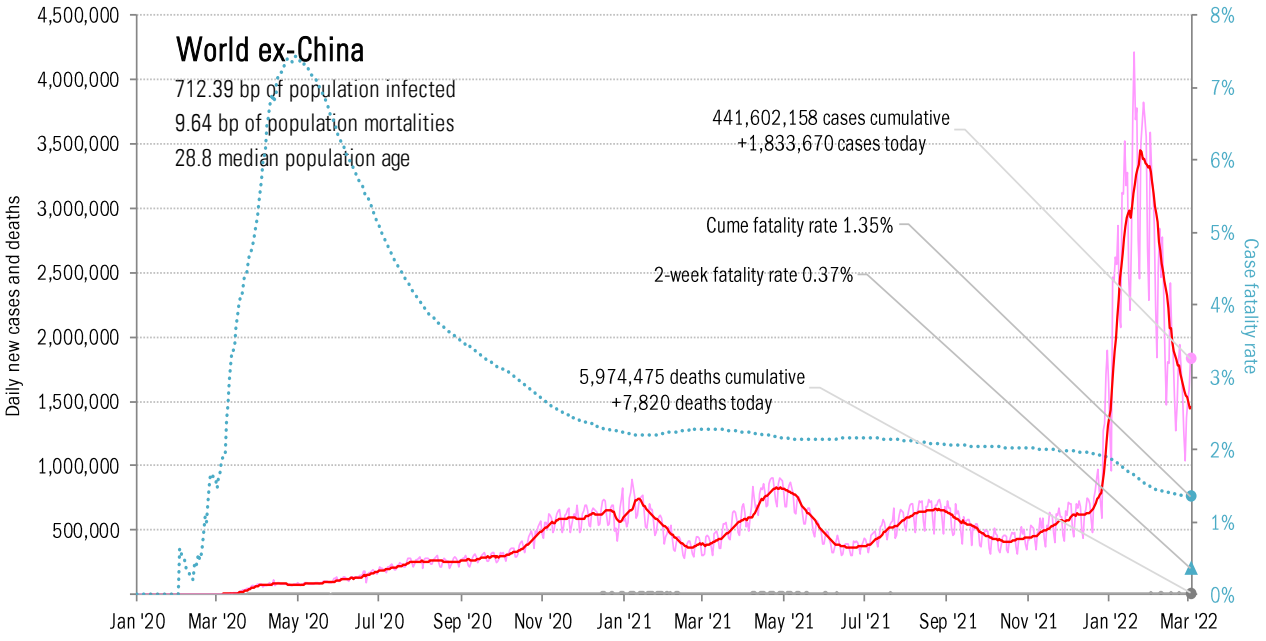


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

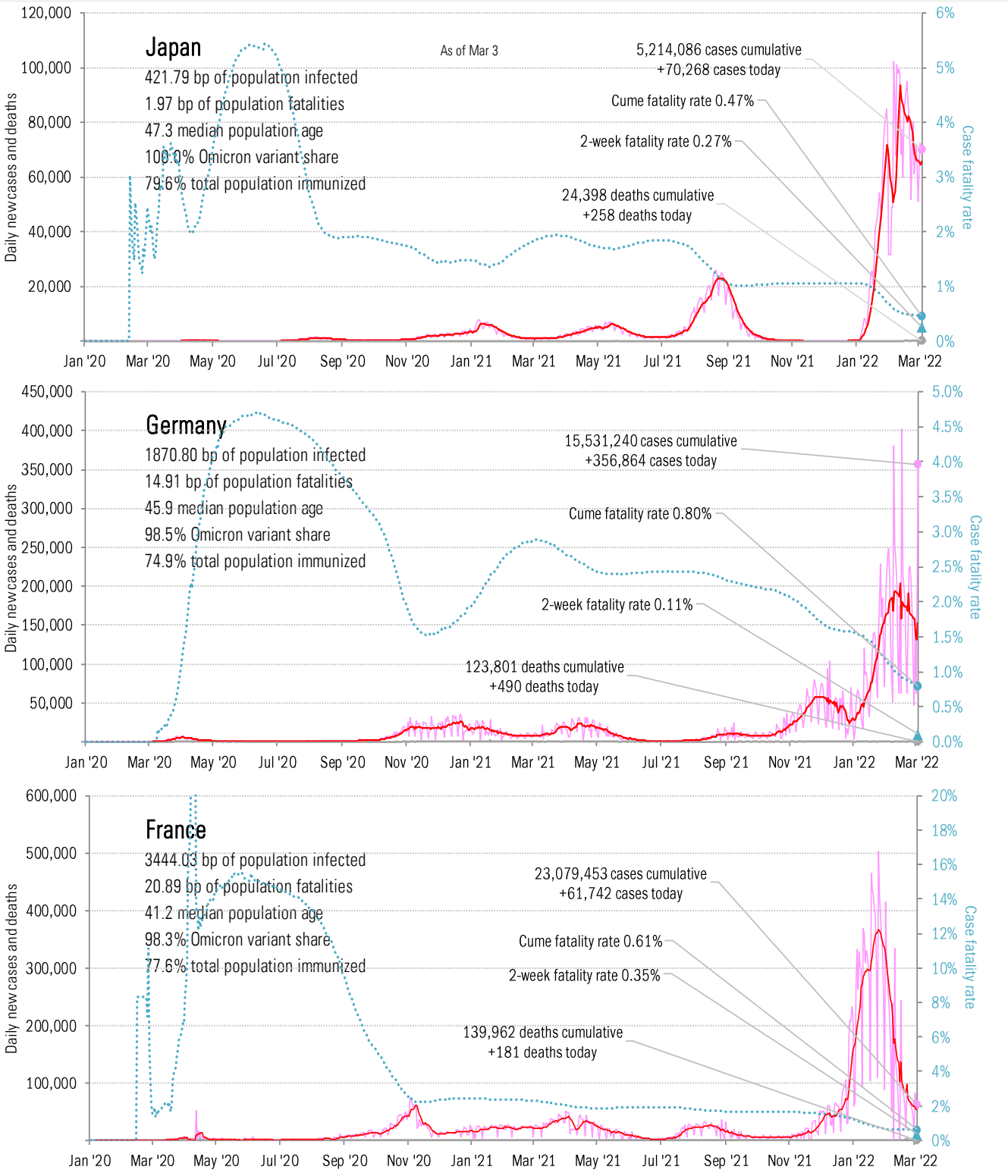




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

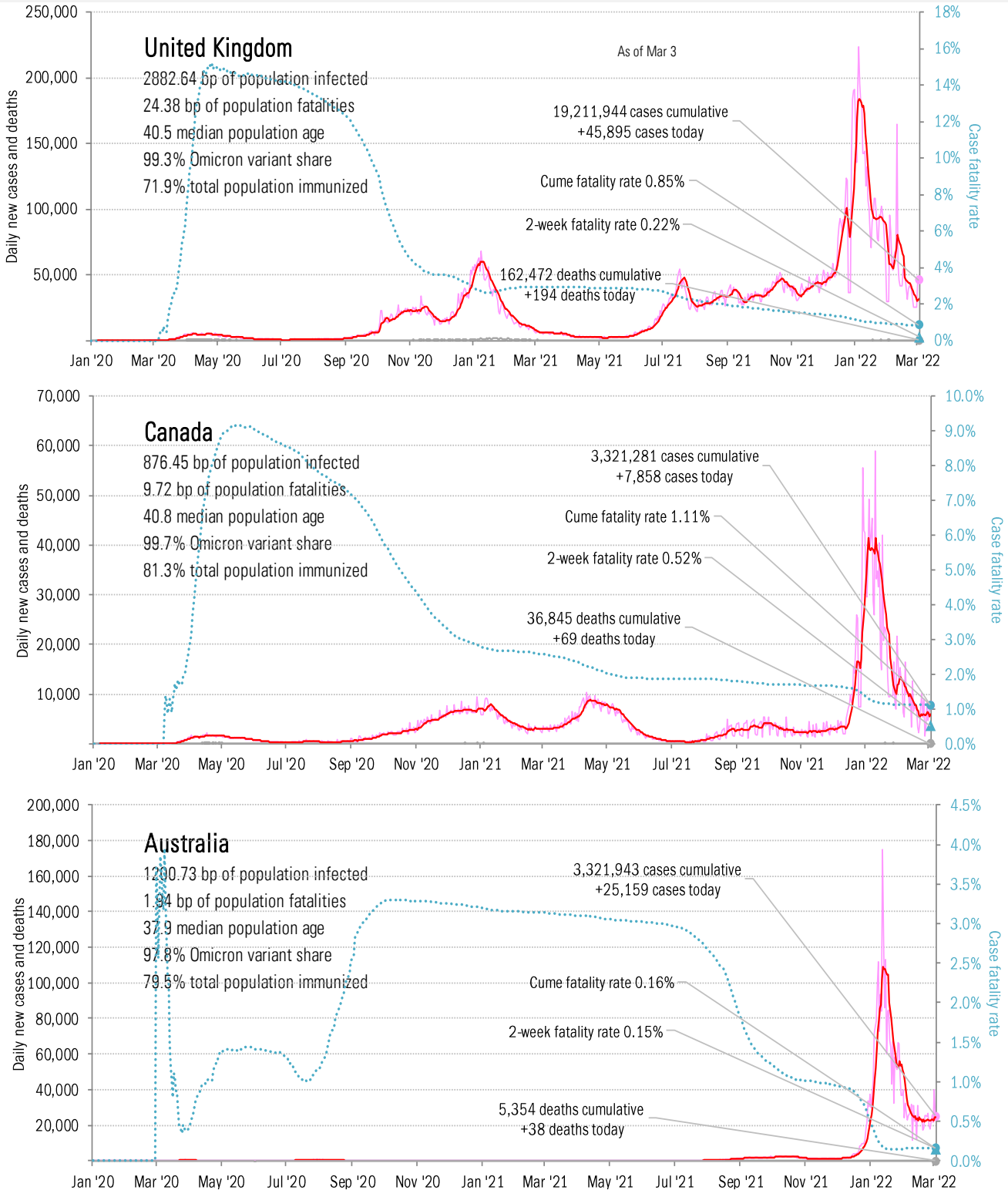
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

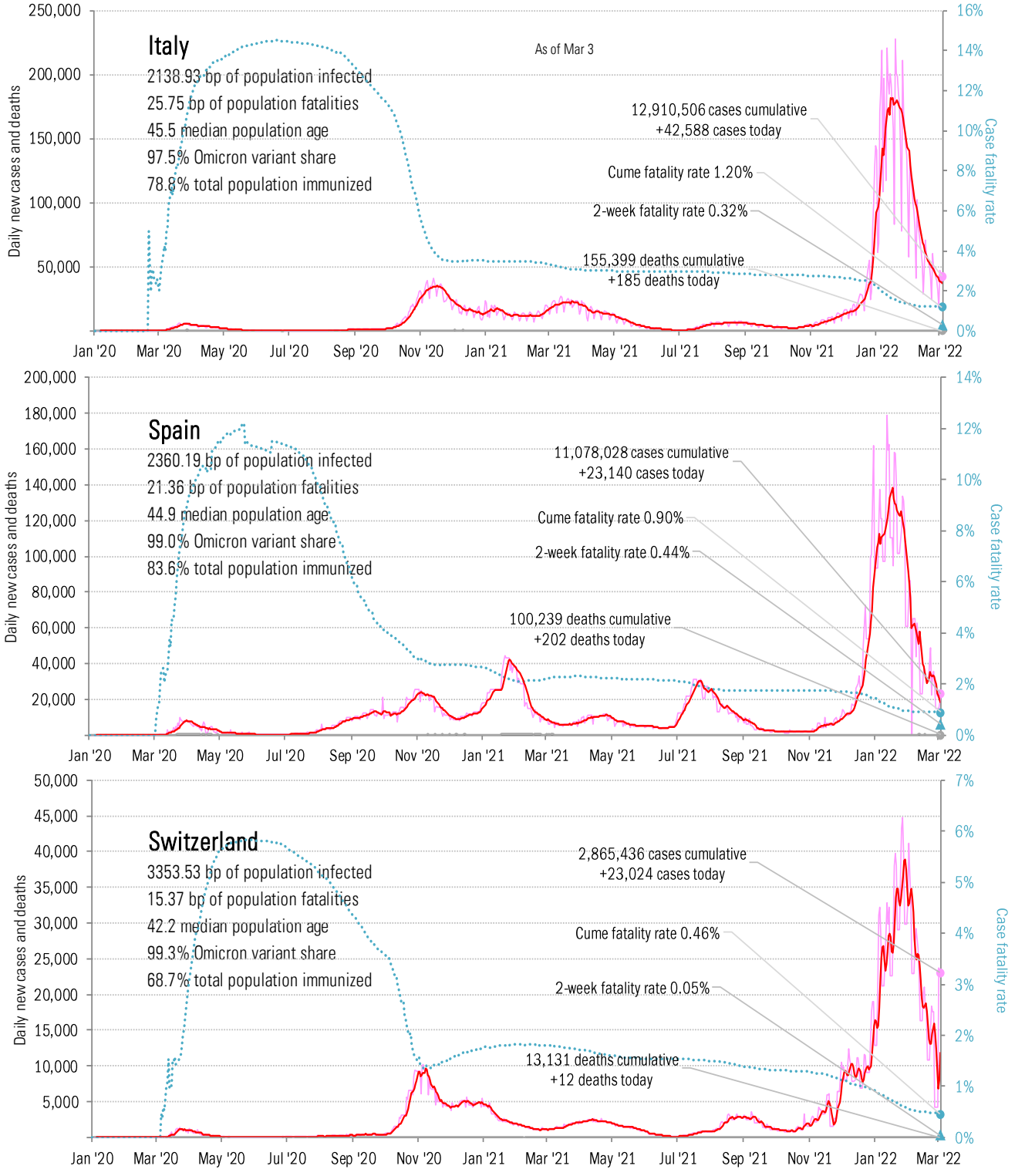
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

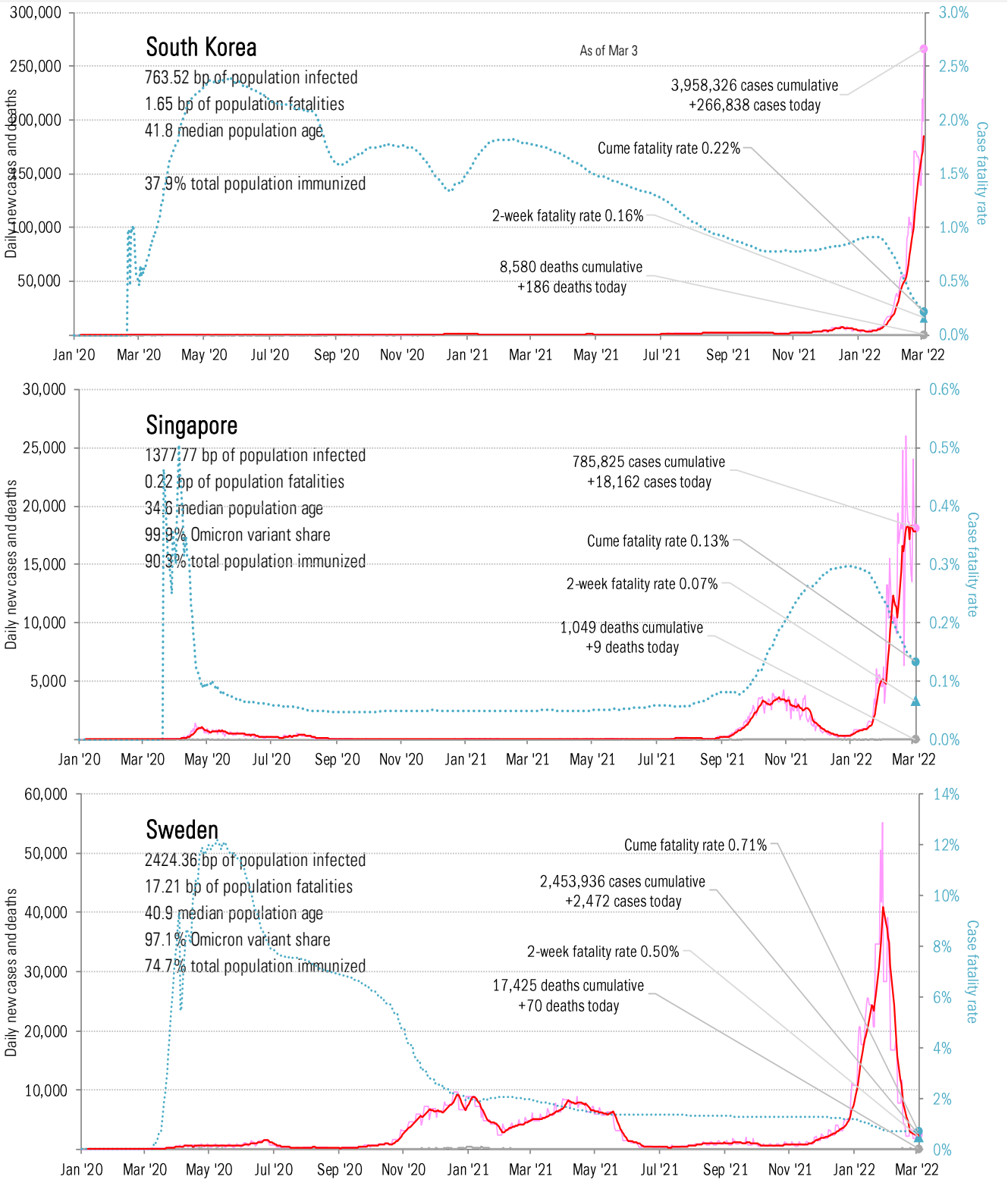
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

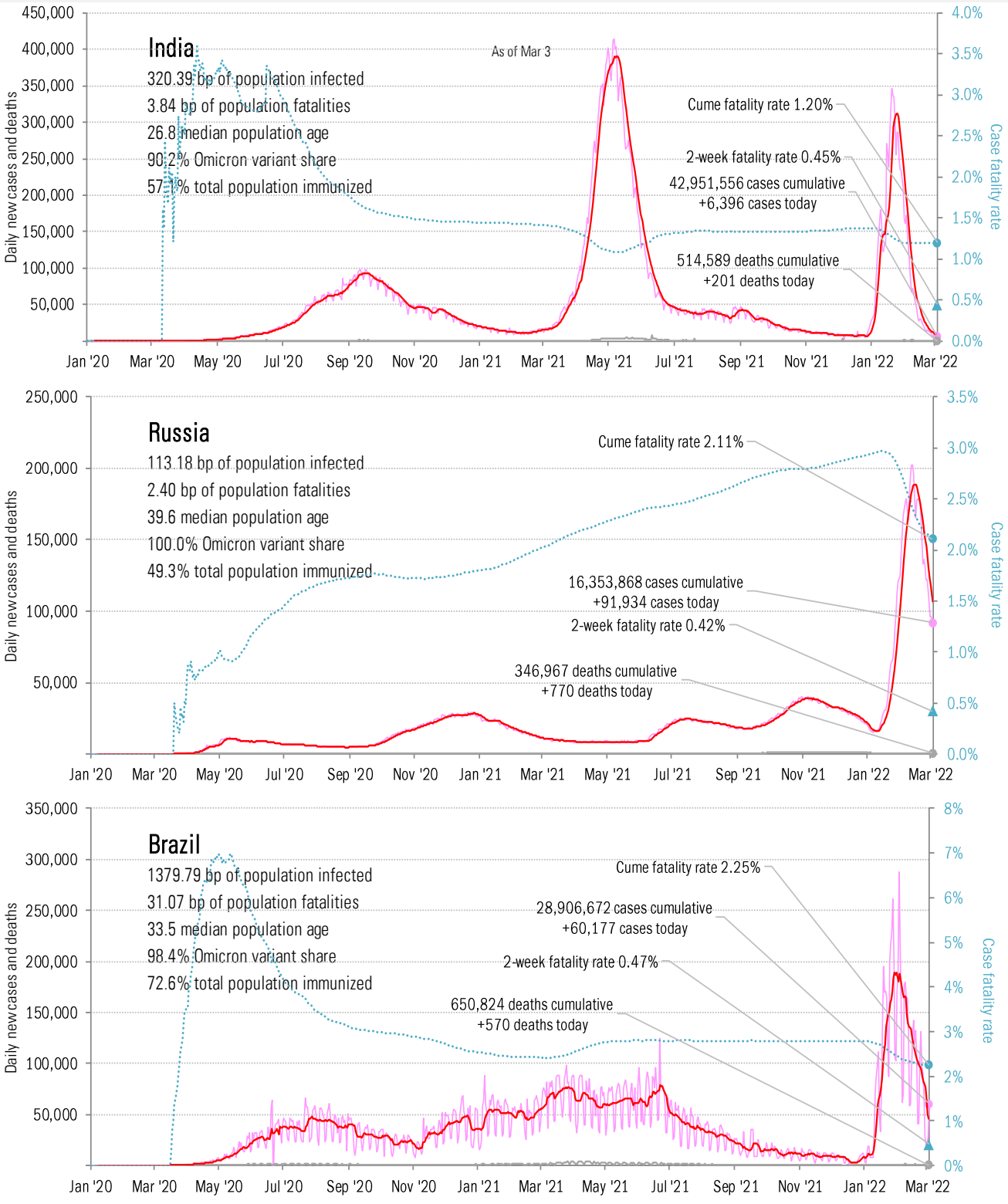
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

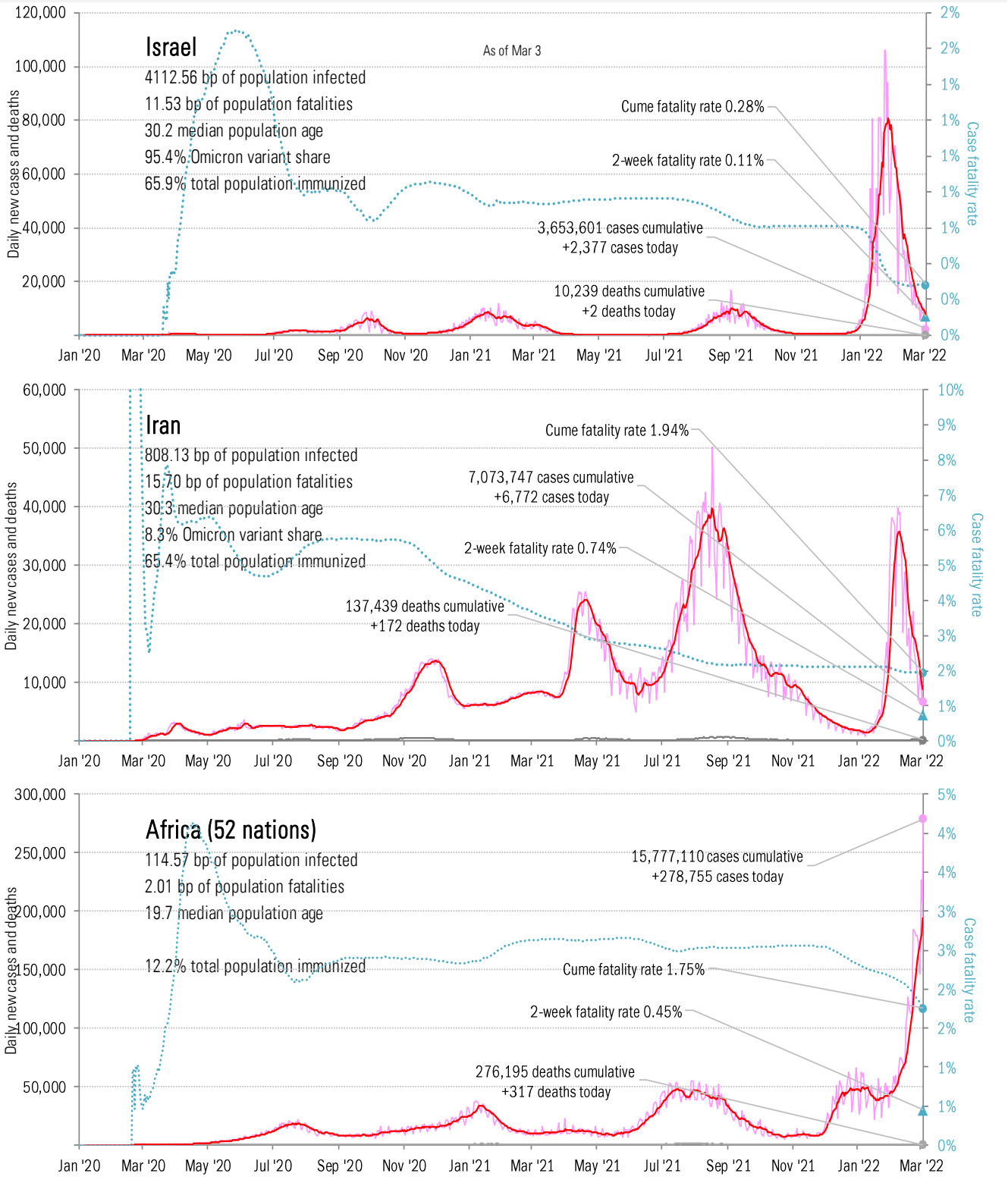
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

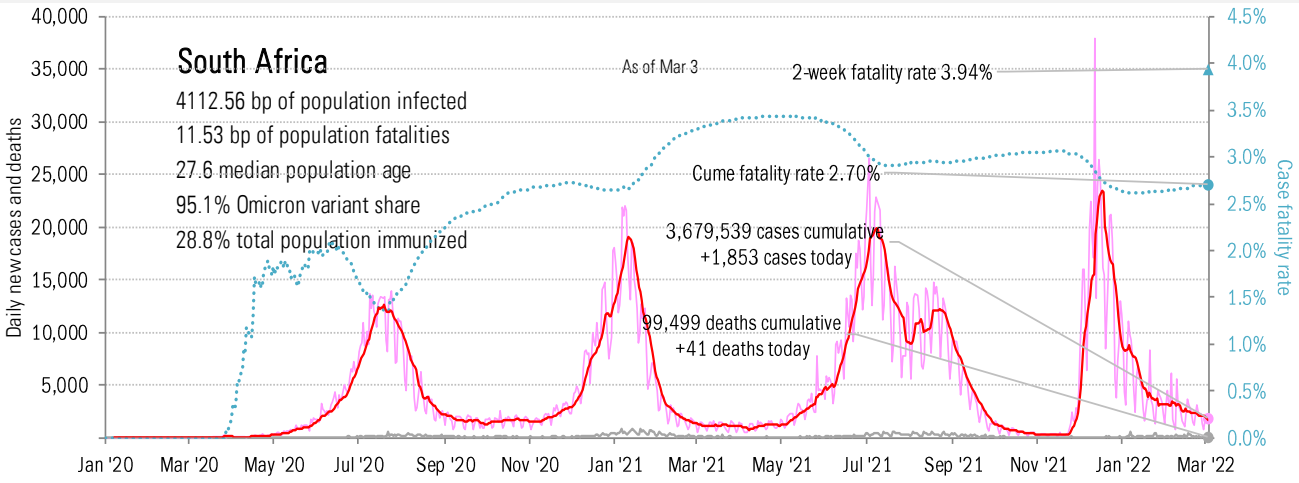
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations