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

Data Insights: Covid-2019 Monitor

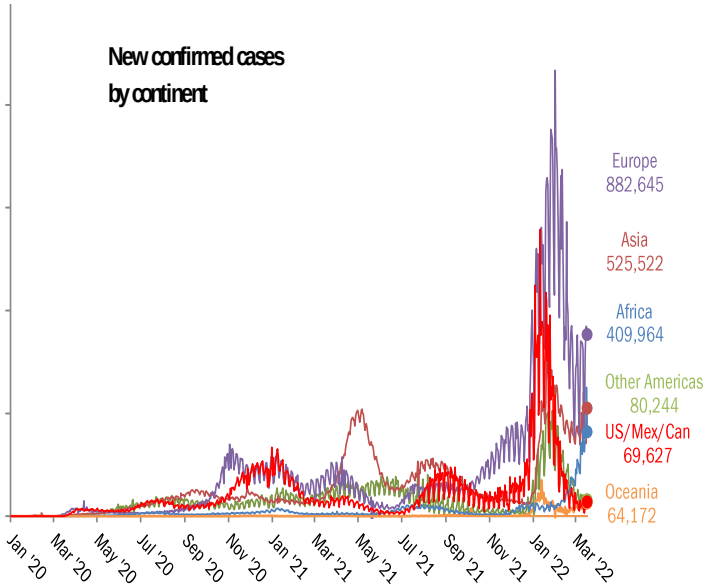
Friday, March 18, 2022

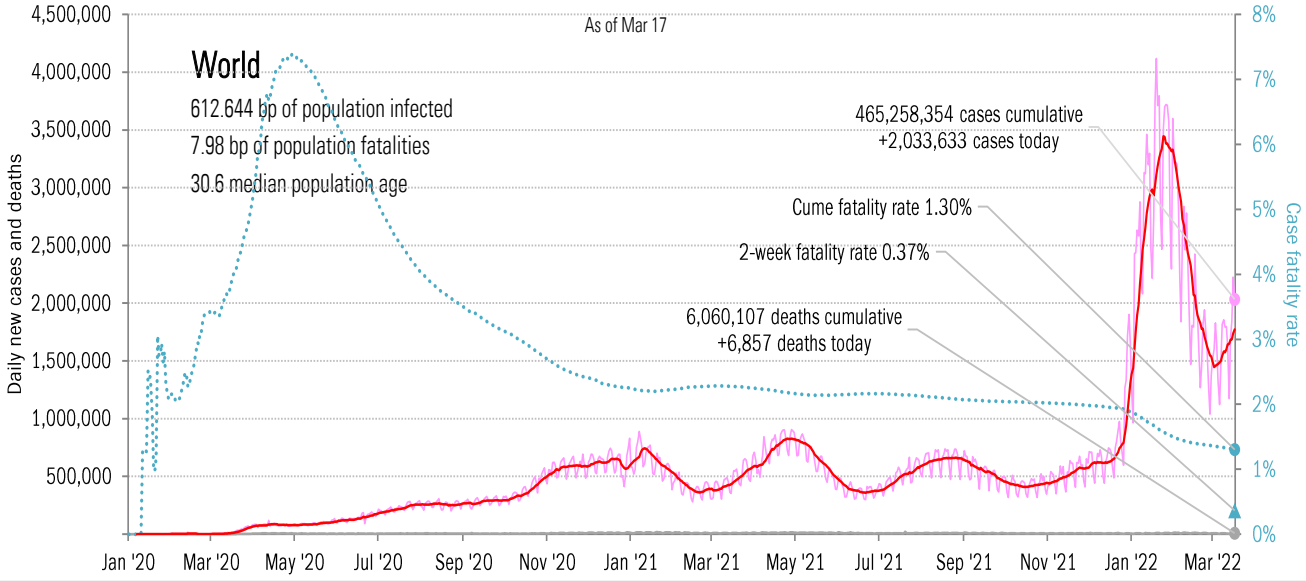
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Korea, South	407,017	United States	1,626
Vietnam	353,965	Russia	549
Germany	297,850	Brazil	462
France	102,394	Mexico	431
United Kingdom	91,206	Norway	343
Italy	82,368	Korea, South	301
United States	54,343	Indonesia	237
Netherlands	53,695	Germany	227
Japan	53,478	Poland	207
Austria	52,045	Chile	184
	1,548,361		4,567
World	2,033,633	World	6,857
Top ten	76%	Top ten	67%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
Donald Luskin: 214 550 2121 don@trendmacro.com
Thomas Demas: 704 552 3625 tdemas@trendmacro.com

New deaths and new in hospital figures are back. Sorry for any inconvenience.

The US scorecard

Cases: 7-day average and daily Deaths: Daily

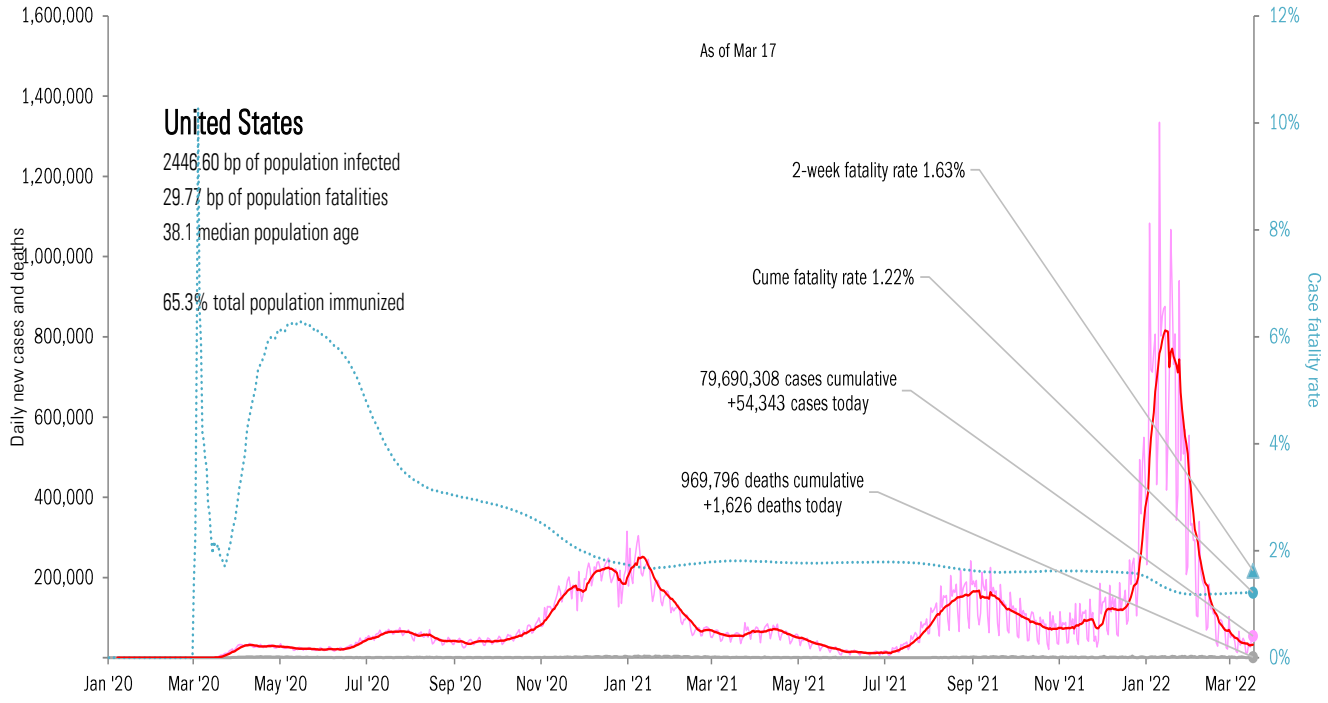
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
KY	9,532	KY	283	NY	149	CA	9,055,973	CA	87,888	TX	484,652	RI	85%	KY	105%
CA	5,892	OH	198	MA	44	TX	6,684,621	TX	86,746	CA	419,966	MA	85%	TX	88%
AZ	5,153	CA	143	KY	66	FL	5,874,834	FL	72,230	FL	411,810	MN	84%	NM	85%
TX	5,002	FL	138	NH	16	NY	4,956,880	NY	67,792	NY	243,379	PA	83%	WA	82%
OK	2,984	OK	120	NC	77	IL	3,051,797	PA	43,992	GA	205,977	WA	83%	AL	82%
NC	2,742	TX	120	NE	18	PA	2,772,886	OH	37,608	OH	189,303	WV	83%	RI	82%
NY	2,356	GA	77	MT	17	OH	2,666,030	GA	36,444	PA	174,740	MO	83%	MS	80%
WA	2,314	NC	64	ND	9	NC	2,615,124	IL	35,613	IL	155,515	NH	82%	UT	79%
OH	2,195	AL	54	WI	39	GA	2,481,419	MI	35,353	MI	139,839	AK	81%	NH	78%
CO	1,506	WA	54	PA	80	MI	2,375,430	NJ	33,149	KY	139,325	DC	81%	MA	78%
	39,676		1,251		515		42,534,994		536,815		2,564,506				
All states	54,343		1,626		2,176	All states	79,690,308		969,796		4,650,739	All states	70%		67%
Top ten	73%		77%		24%	Top ten	53%		55%		55%	Median	76%		73%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NV	-16,412	TN	-532	GA	-195	CA	+10 bp
FL	-3,653	AZ	-457	AZ	-31	CT	+10 bp
MI	-2,094	MI	-143	UT	-22	DE	+10 bp
HI	-1,092	IA	-87	ID	-18	MN	+10 bp
NJ	-600	KS	-60	WA	-15	MS	+10 bp



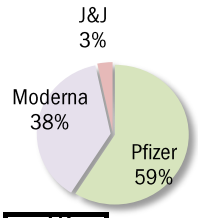
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	572,910,864				+0.131 million
Boosters	97,596,431				+0.052 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	262,473,956	79%	223,127,638	67%	+0.034 million
Age 12 to 17	17,464,988	69%	14,890,874	59%	+0.004 million
Age 18 to 64	176,855,657	87%	149,974,258	74%	+0.019 million
Age 65 and over	58,273,377	100%	50,436,142	92%	+0.003 million

Immunity	Full	Partial
US	65.3%	76.8%
UK	72.2%	77.3%
France	77.8%	80.1%
Spain	85.2%	87.9%
Germany	75.1%	75.8%
Italy	79.1%	84.0%
Australia	80.9%	85.9%
Israel	65.9%	72.1%
Canada	81.5%	85.7%
Japan	79.7%	81.0%
Africa	14.2%	19.7%
India	58.7%	69.6%
Brazil	74.0%	84.2%
China	85.8%	88.1%

Global data differs due to sources, timing



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

"Immunity" = two doses

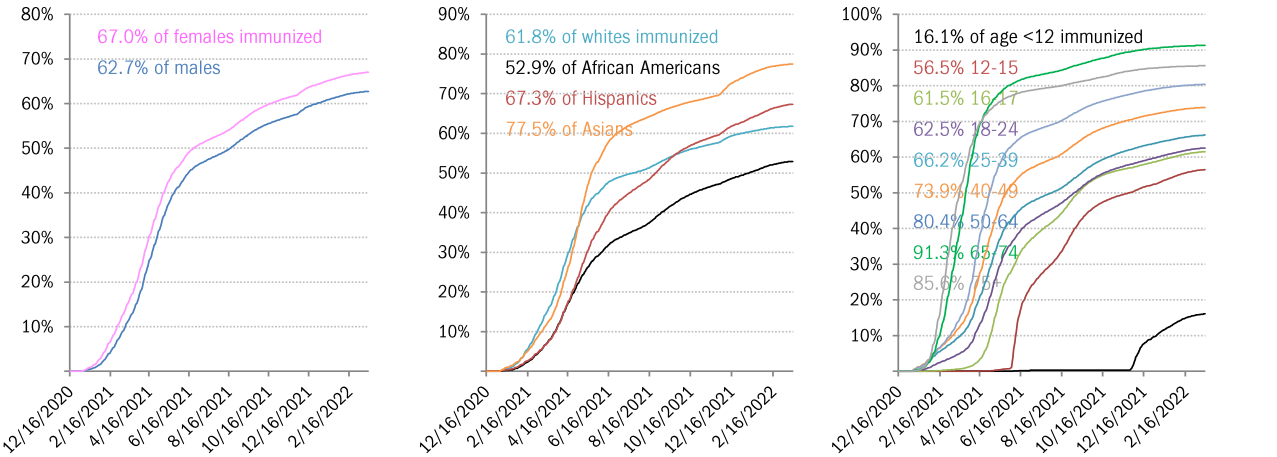
Best
Middle
Worst

As of Mar 17

					WI					ME
					71.3%					89.3%
					64.9%					78.6%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
80.1%	60.6%	64.7%	64.6%	74.6%	76.3%	66.5%		89.3%	92.7%	95.0%
71.8%	53.4%	56.2%	54.6%	68.6%	68.0%	59.6%		75.9%	80.4%	69.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
77.3%	74.4%	58.2%	75.3%	67.5%	60.9%	63.1%	83.7%	89.5%	95.0%	
69.0%	60.1%	50.9%	60.3%	61.4%	54.3%	57.9%	67.4%	74.7%	78.0%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
82.3%	71.5%	78.7%	69.6%	65.6%	65.6%	64.4%	84.8%	85.3%	94.3%	95.0%
70.9%	63.6%	69.6%	62.8%	55.4%	56.8%	57.0%	72.3%	74.5%	78.2%	81.2%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	71.9%	86.4%	73.8%	66.0%	61.6%	82.8%	67.0%	95.0%	82.1%	
	60.5%	70.1%	60.6%	53.8%	53.9%	59.7%	56.4%	72.1%	68.1%	
			OK	LA	MS	AL	GA			
			70.3%	60.5%	59.1%	62.1%	64.7%			
			56.3%	53.0%	51.3%	50.5%	54.0%			
HI			TX					FL		PR
86.8%			71.7%					78.4%		95.0%
77.6%			60.5%					66.3%		81.9%

AK
69.0%
61.4%

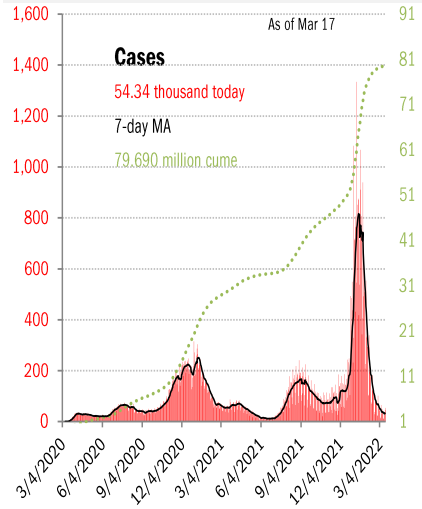
The demographics of US vaccination

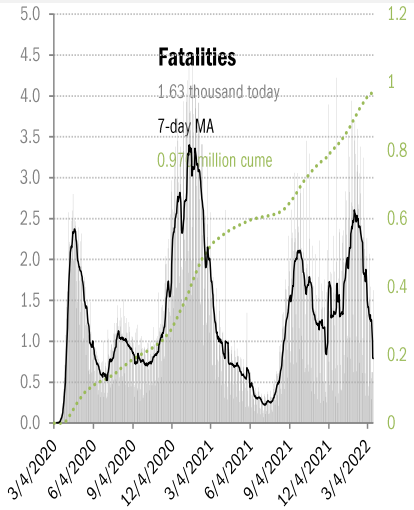


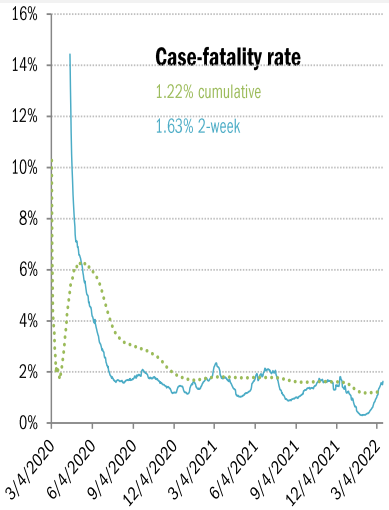
Source: CDC, CDC, Our World in Data, TrendMacro calculations

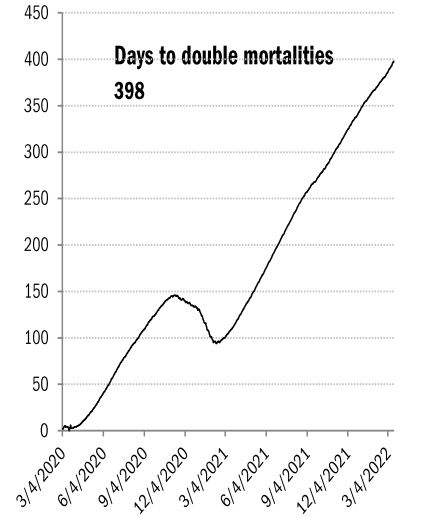
US deep-dive

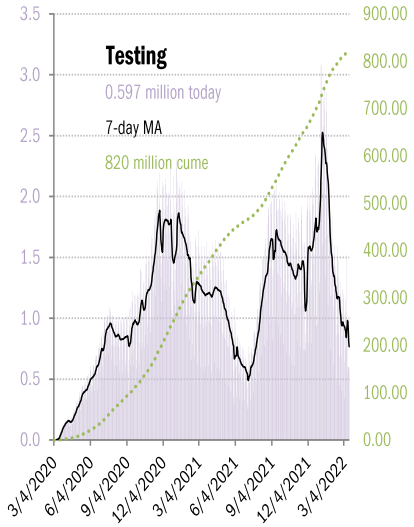
National and state-by-state data do not line up because of different sources

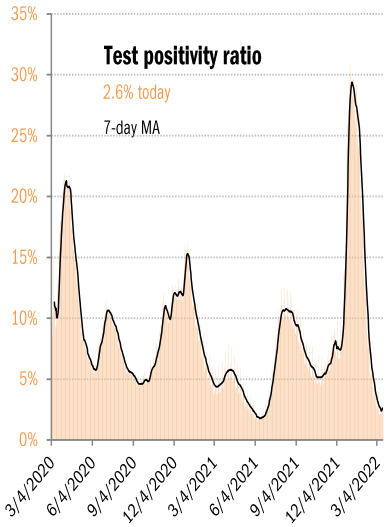


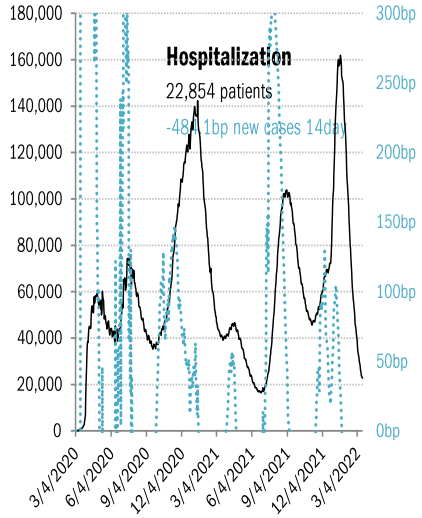


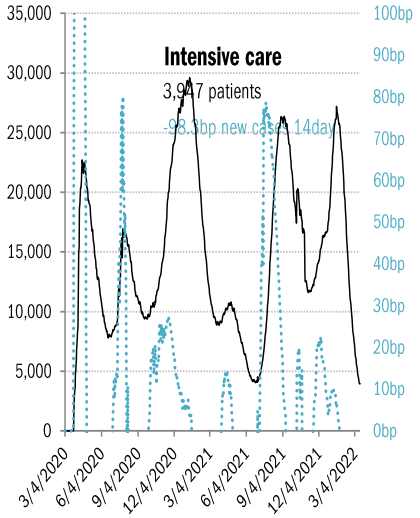


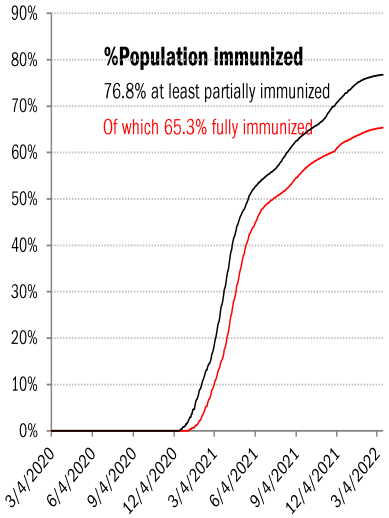










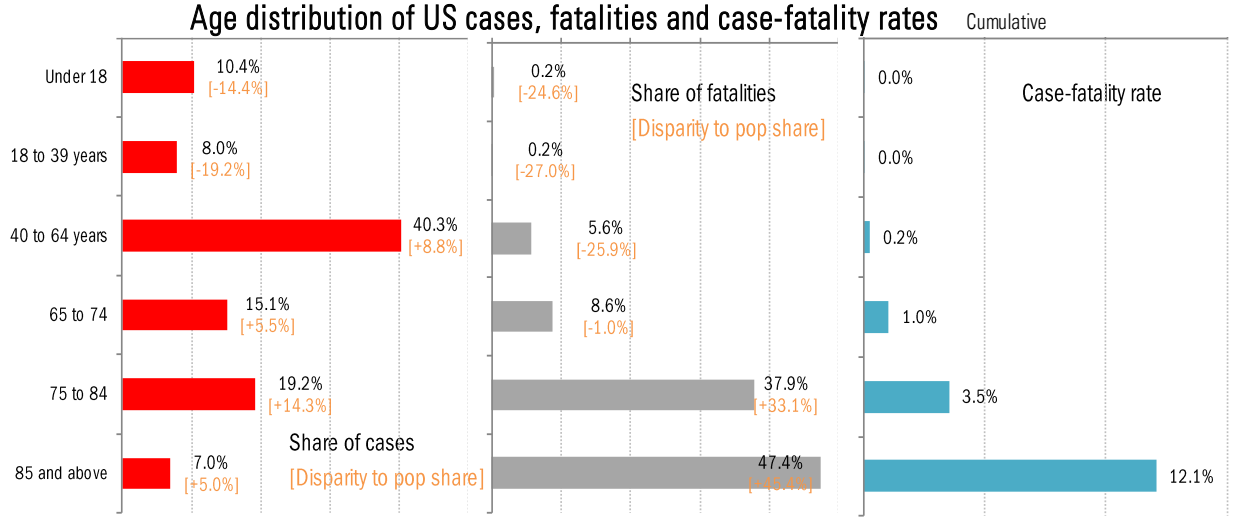


Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

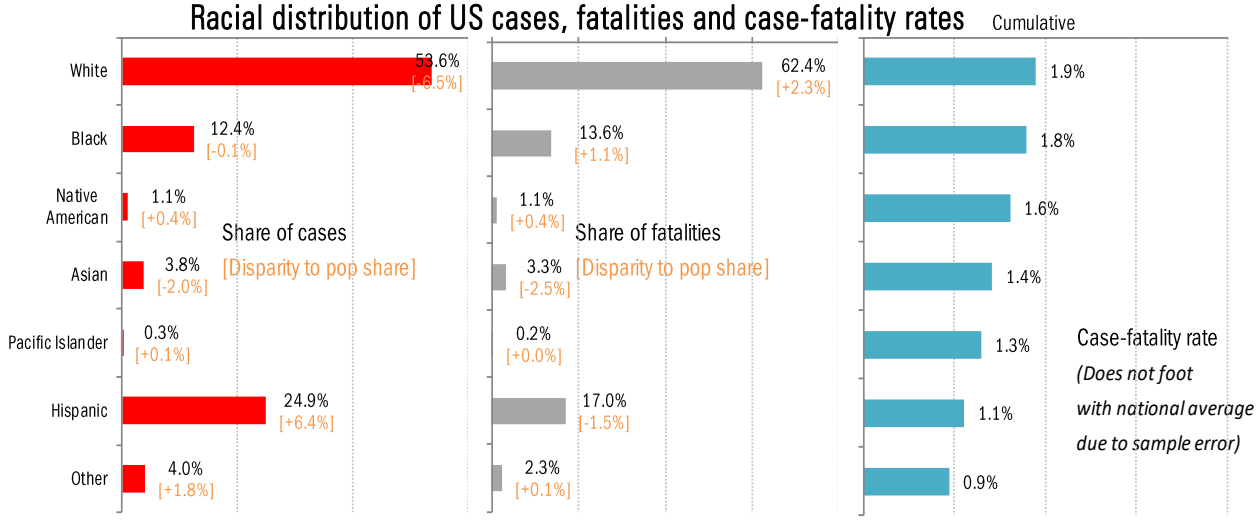
US deep-dive on the demographics of age, race and health

Updates weekly on Sundays

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

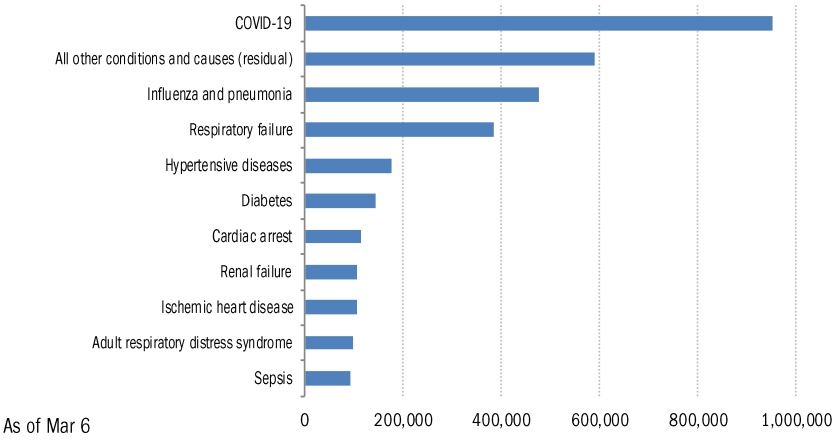


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Mar 6

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 CDC Quietly Updates Data on Child COVID Deaths](#)
Katie Pavlich
Town Hall
March 17, 2022

[As China confronts a surge, Xi urges officials to control Covid 'with the smallest cost.'](#)
Amy Qin
New York Times
March 17, 2022

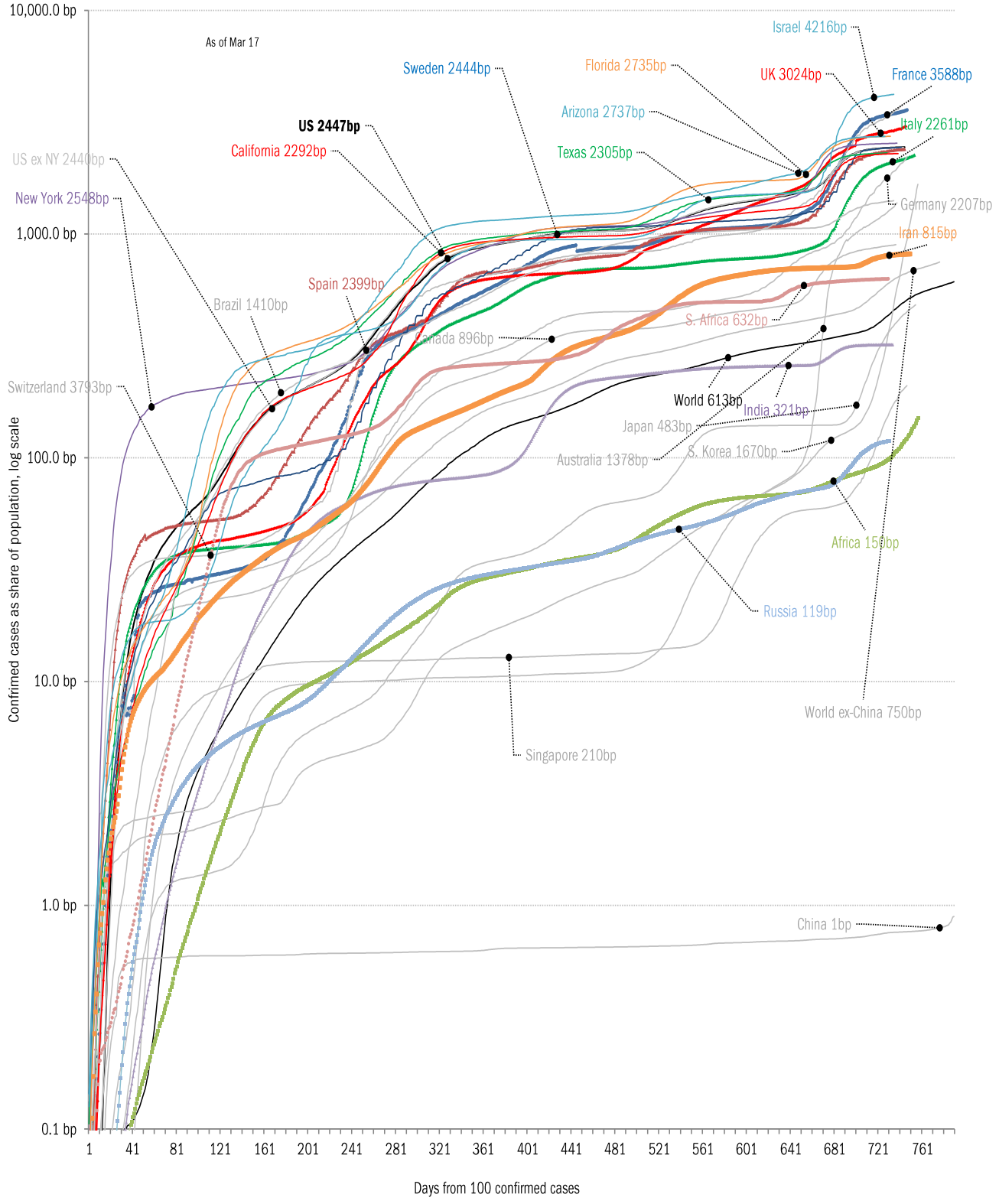
Meme of the day

Researchers Determine The Science Has Changed After Carefully Examining Poll Numbers

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

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

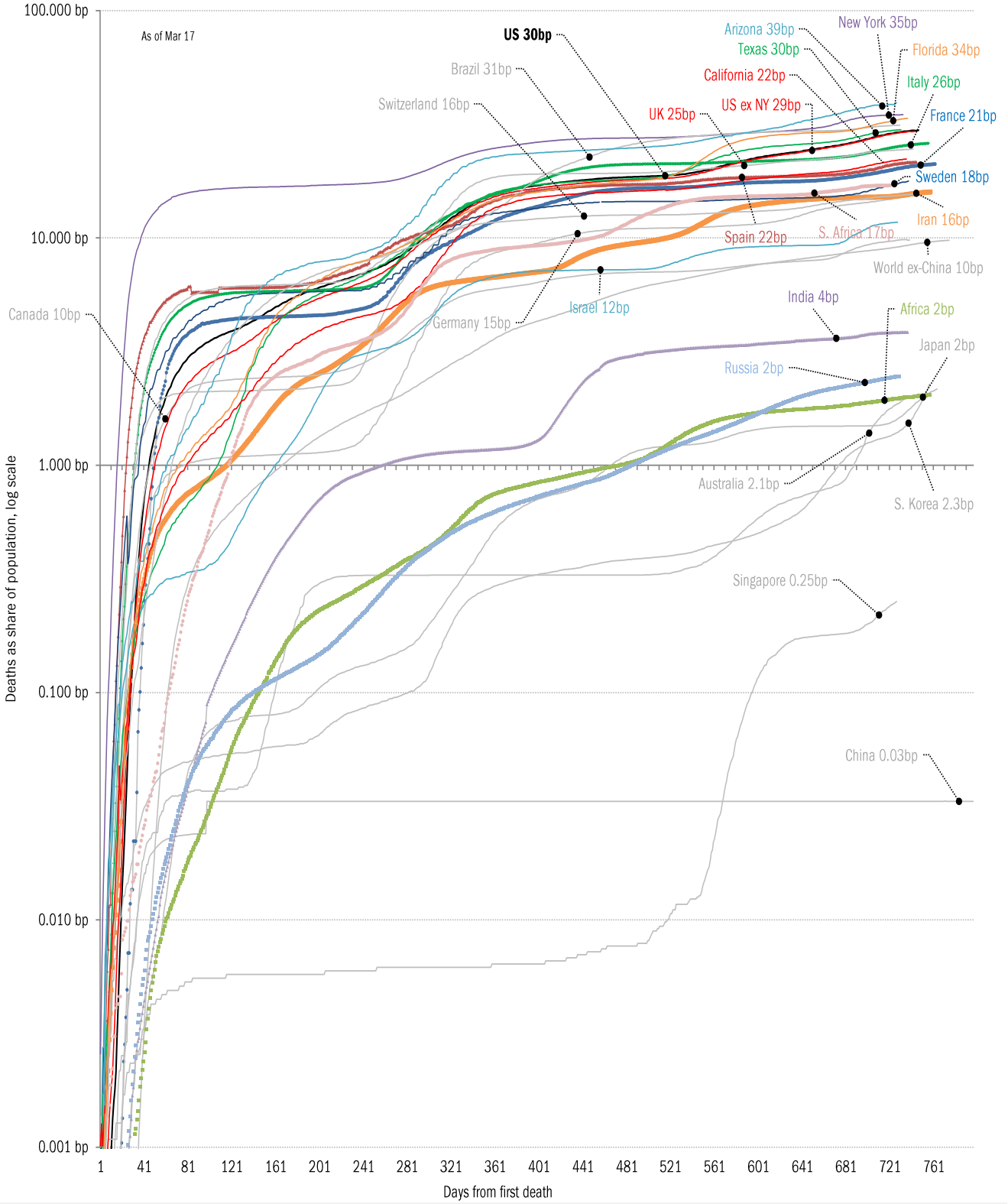
Share of infected population from first day with 100 confirmed cases, log scale



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

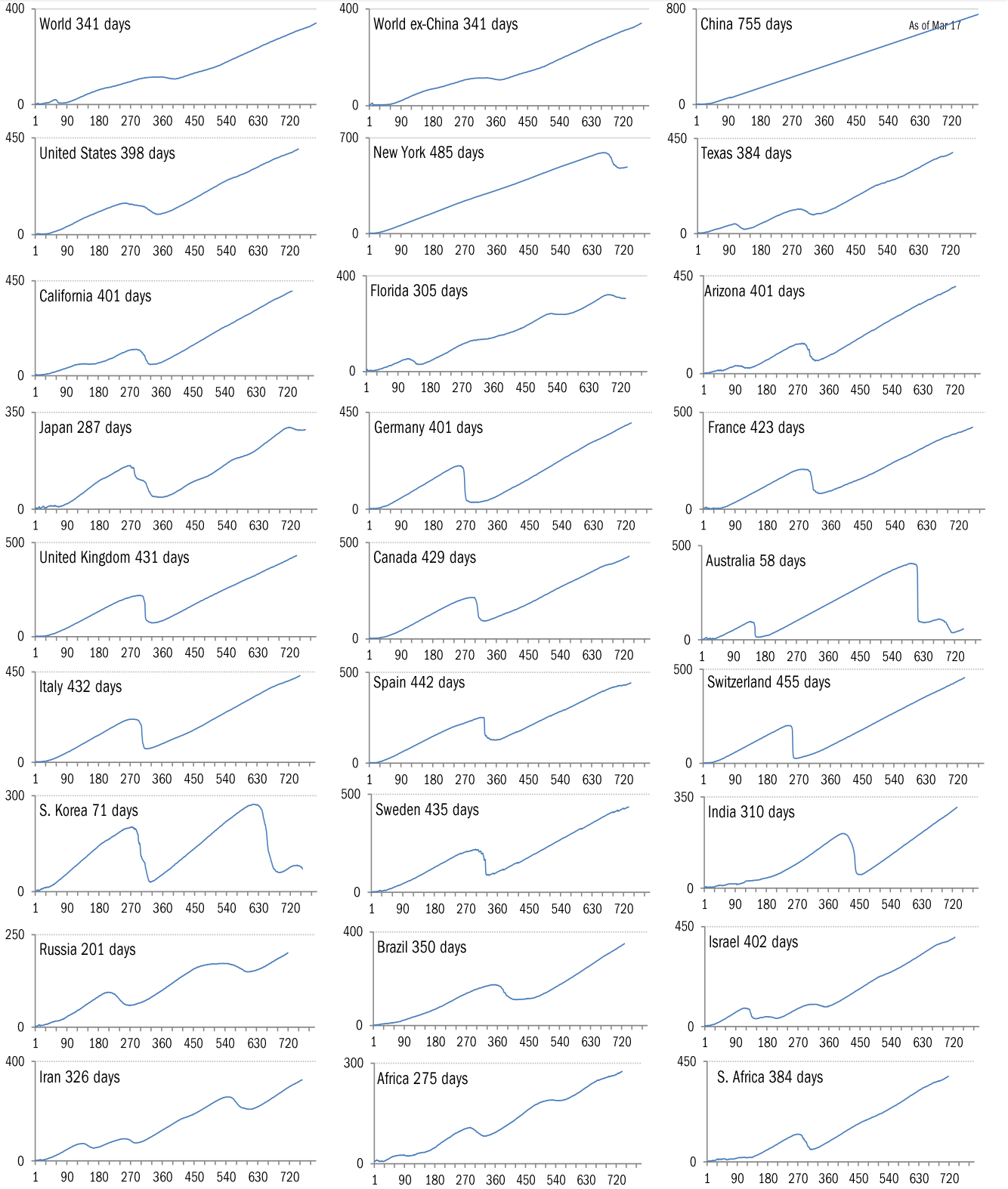


Source: Johns Hopkins, TrendMacro calculations

"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

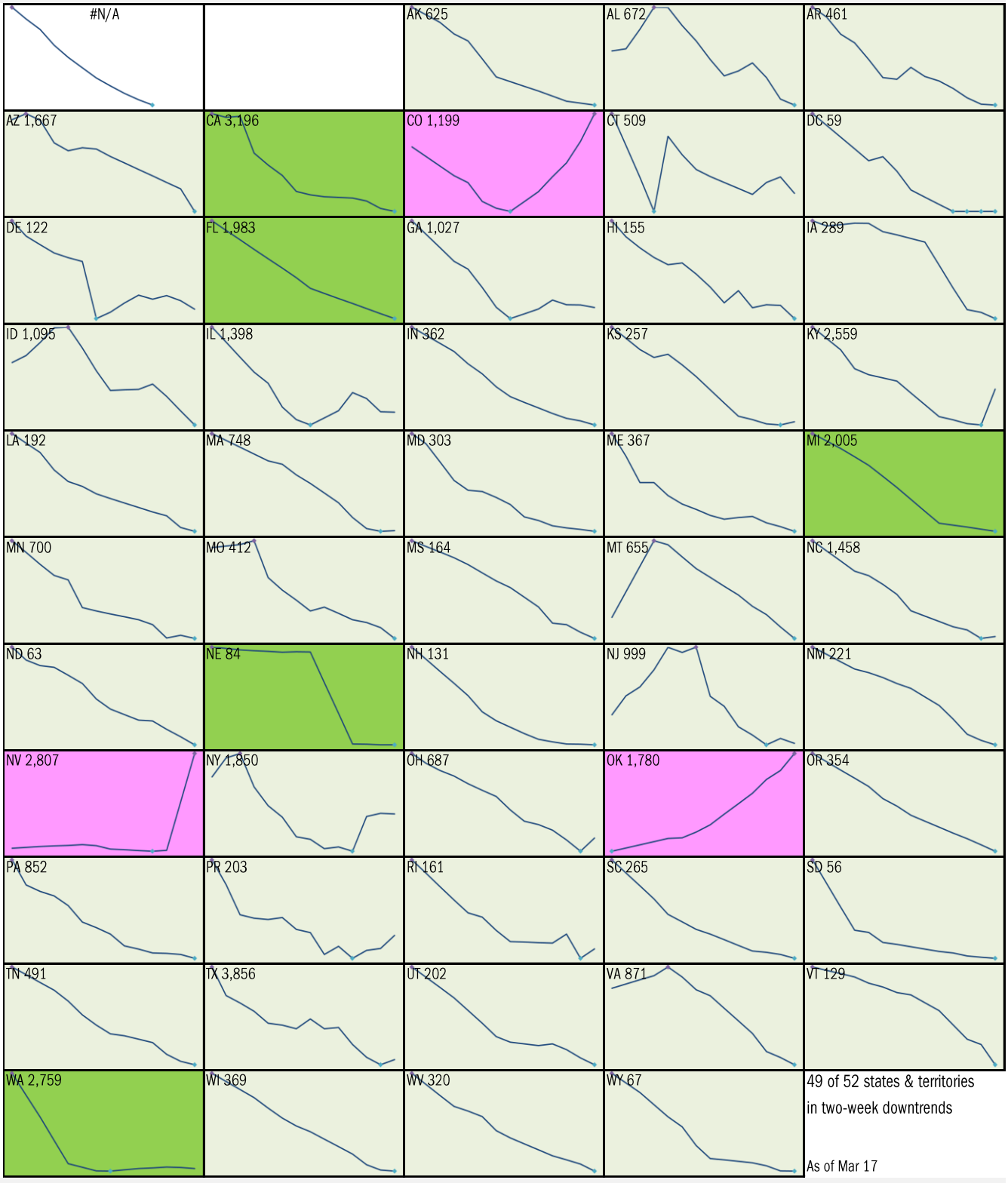


Source: Johns Hopkins, TrendMacro calculations

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

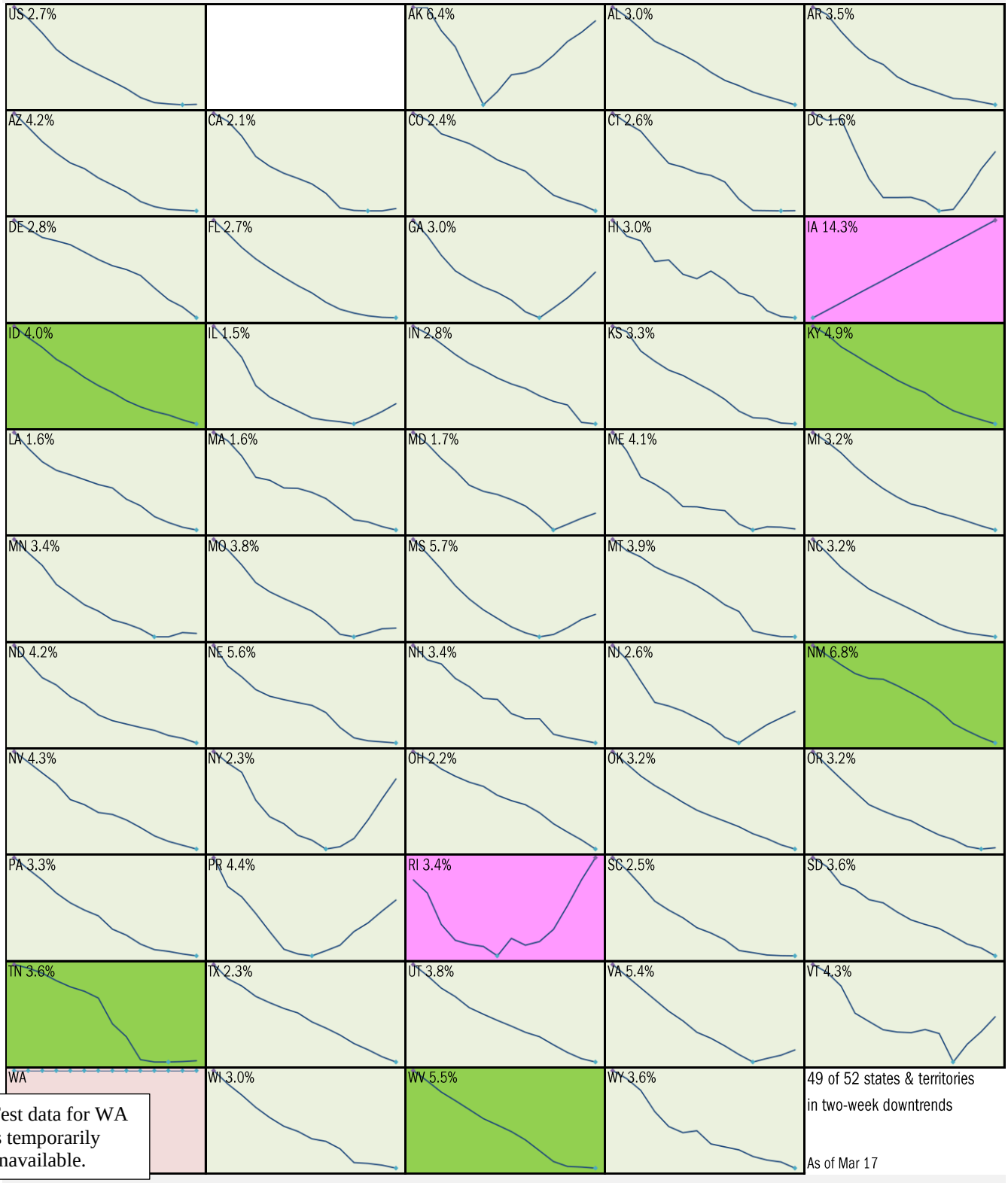


Source: Johns Hopkins, TrendMacro calculations

14-day "downward 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

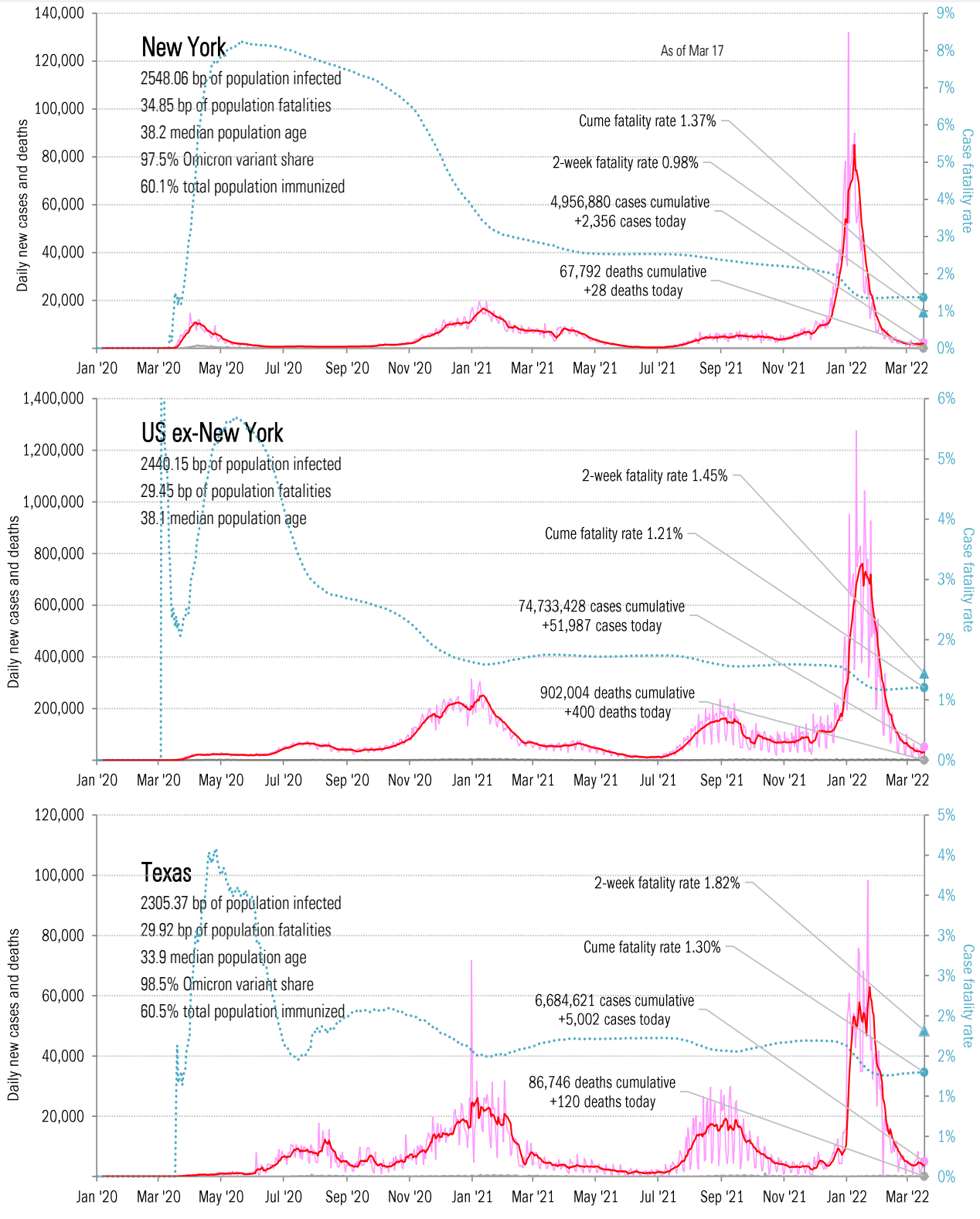


Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

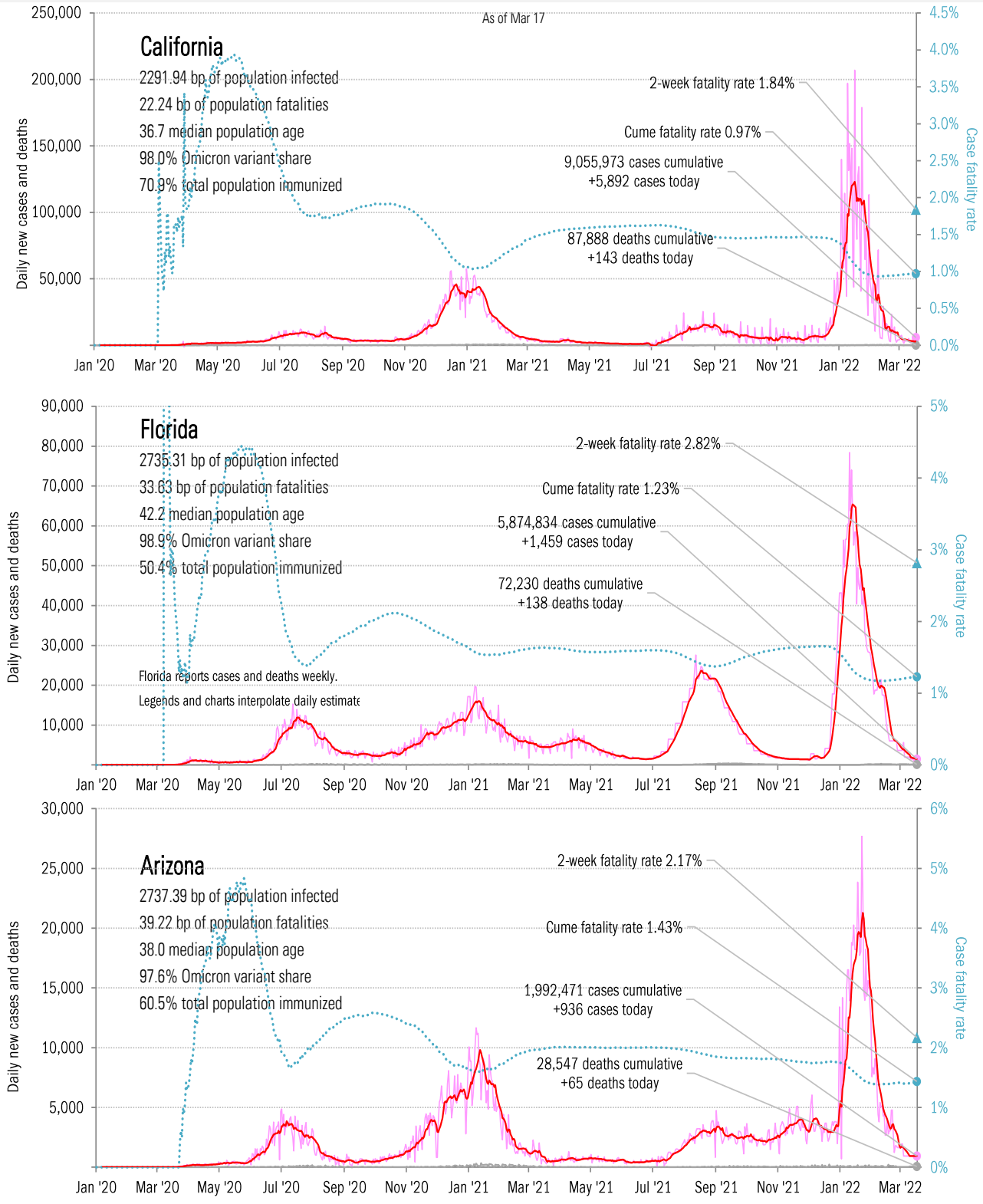
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

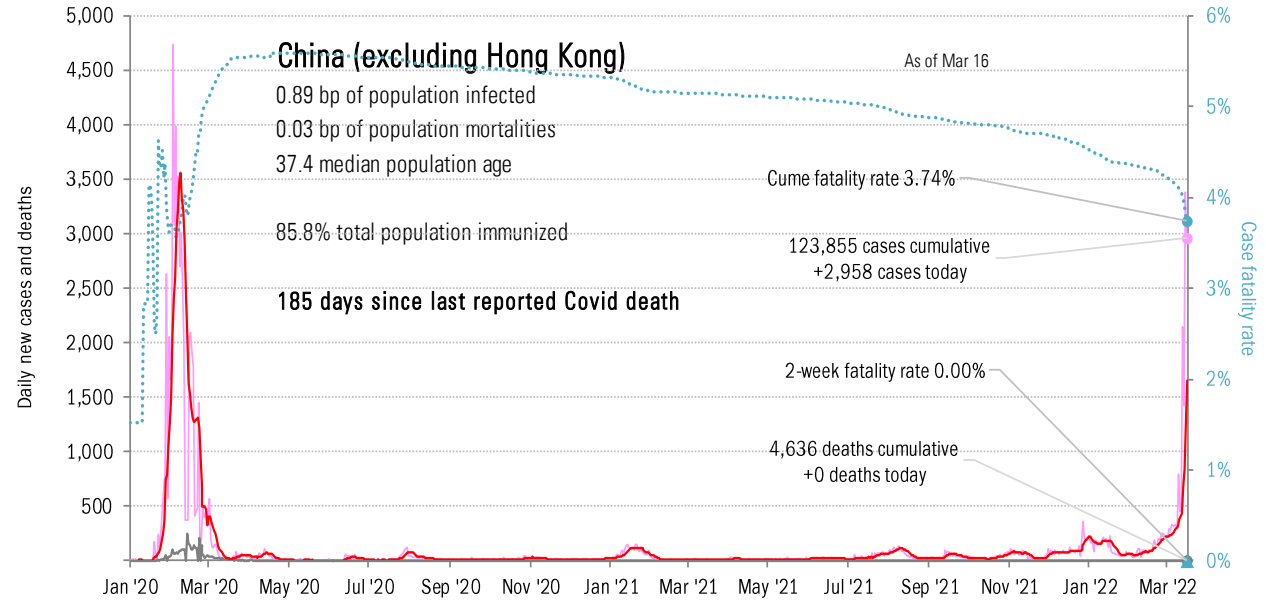
Cases: 7-day average and daily Deaths: Daily

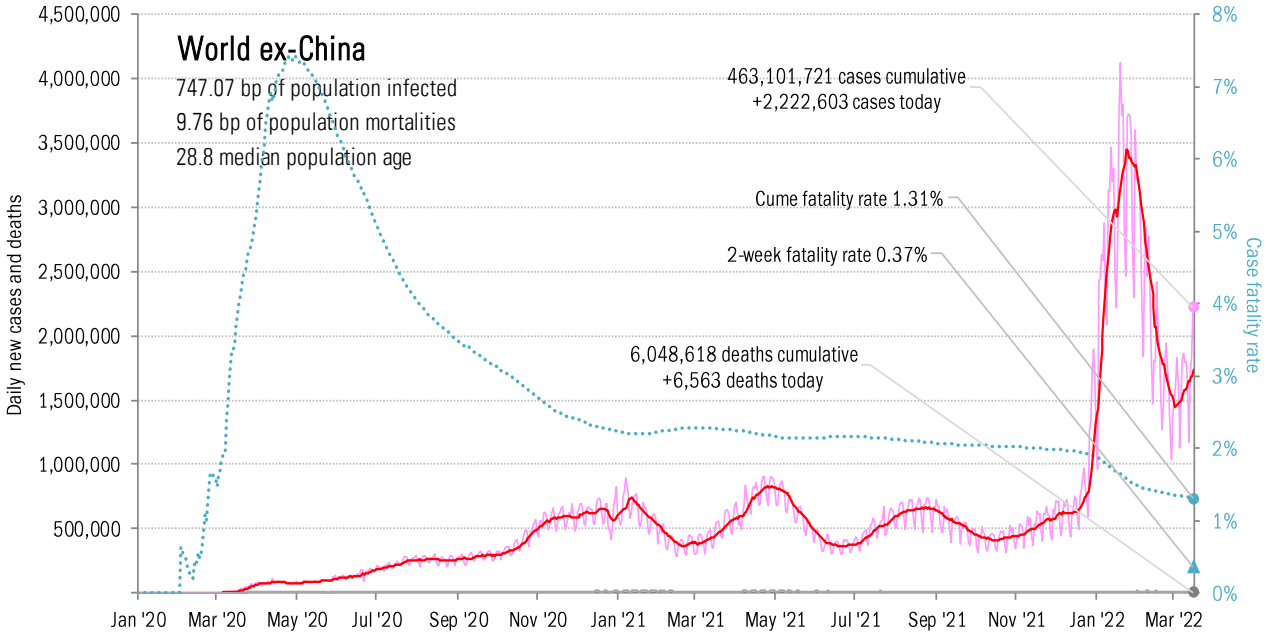


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

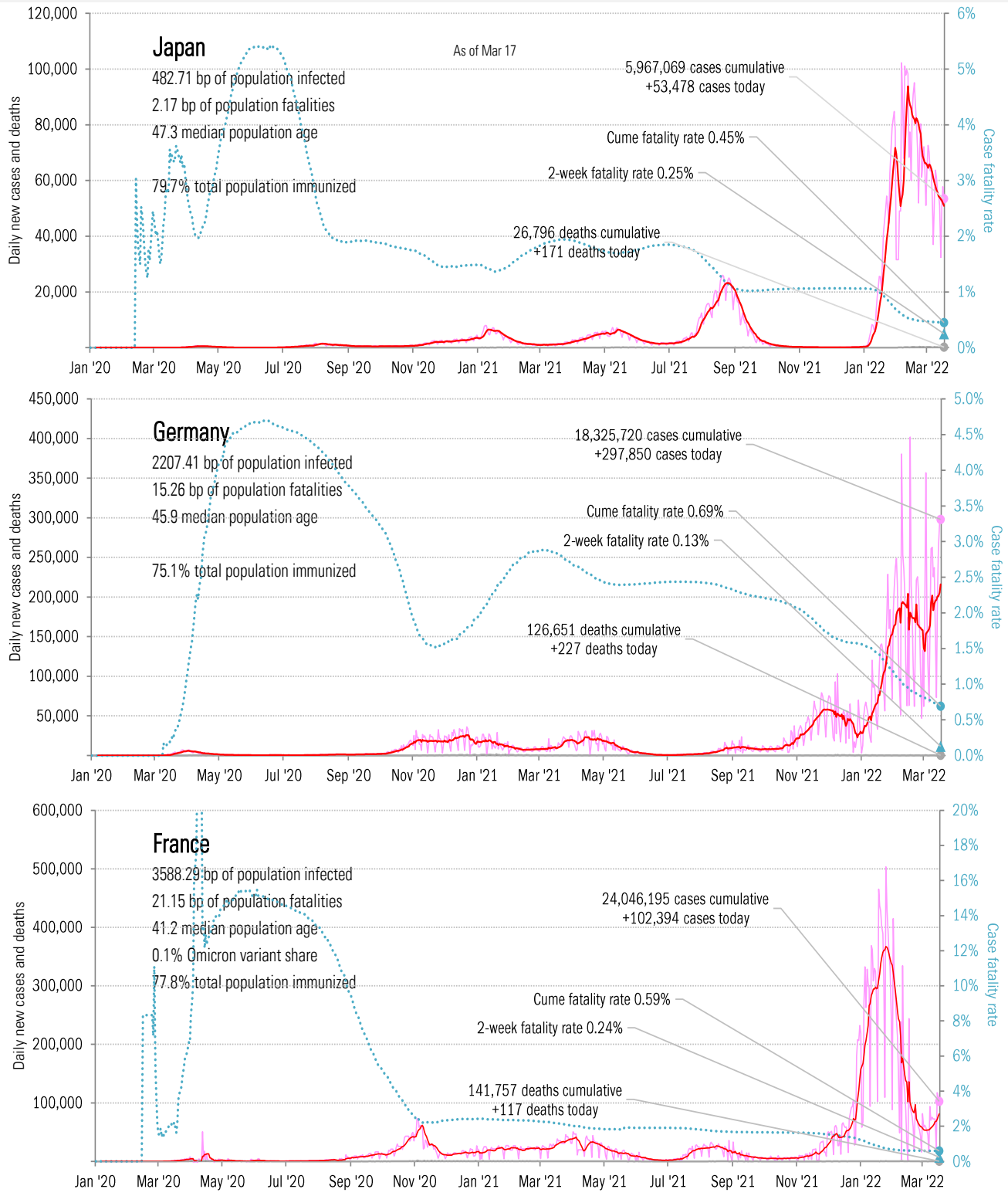




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

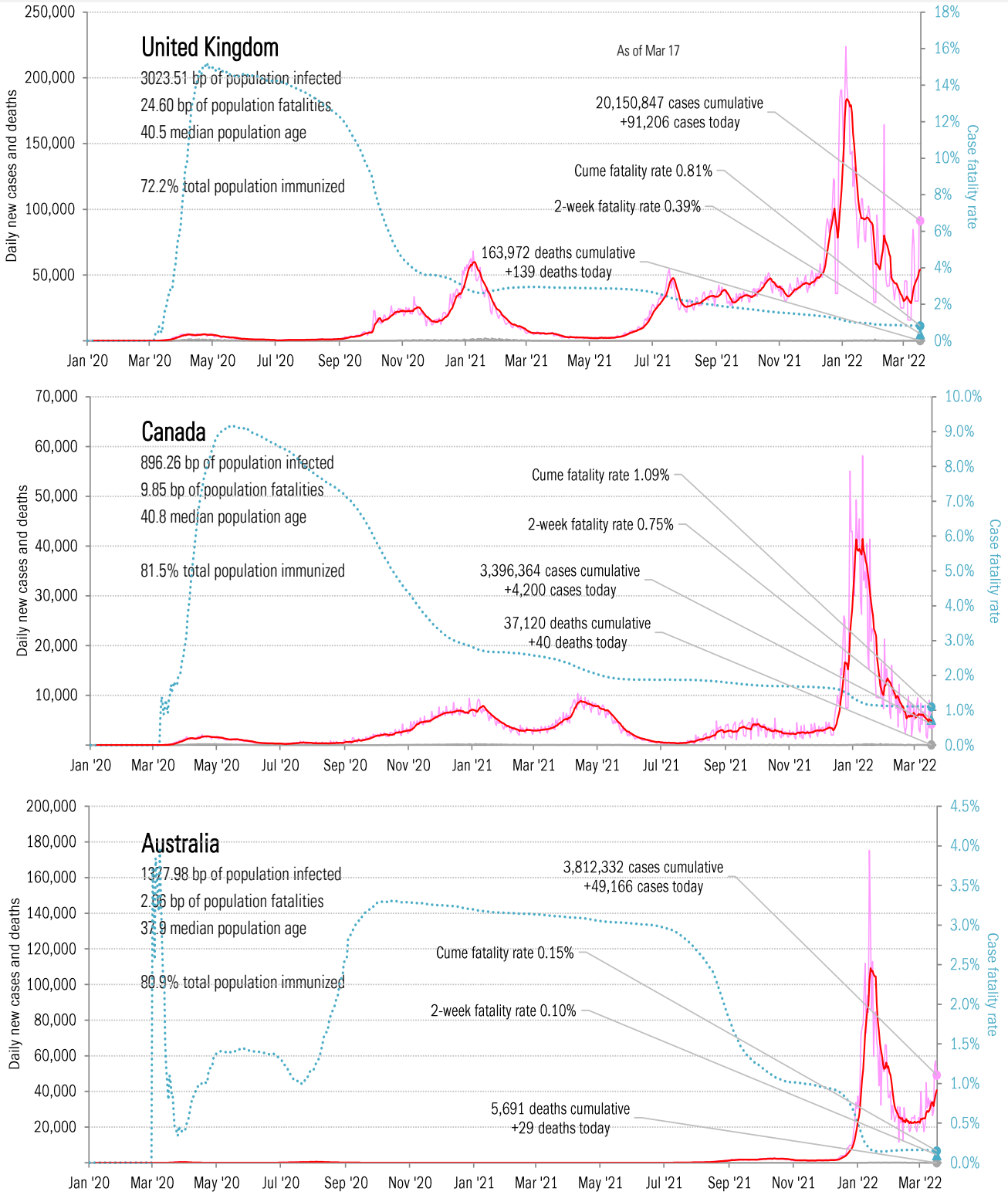
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

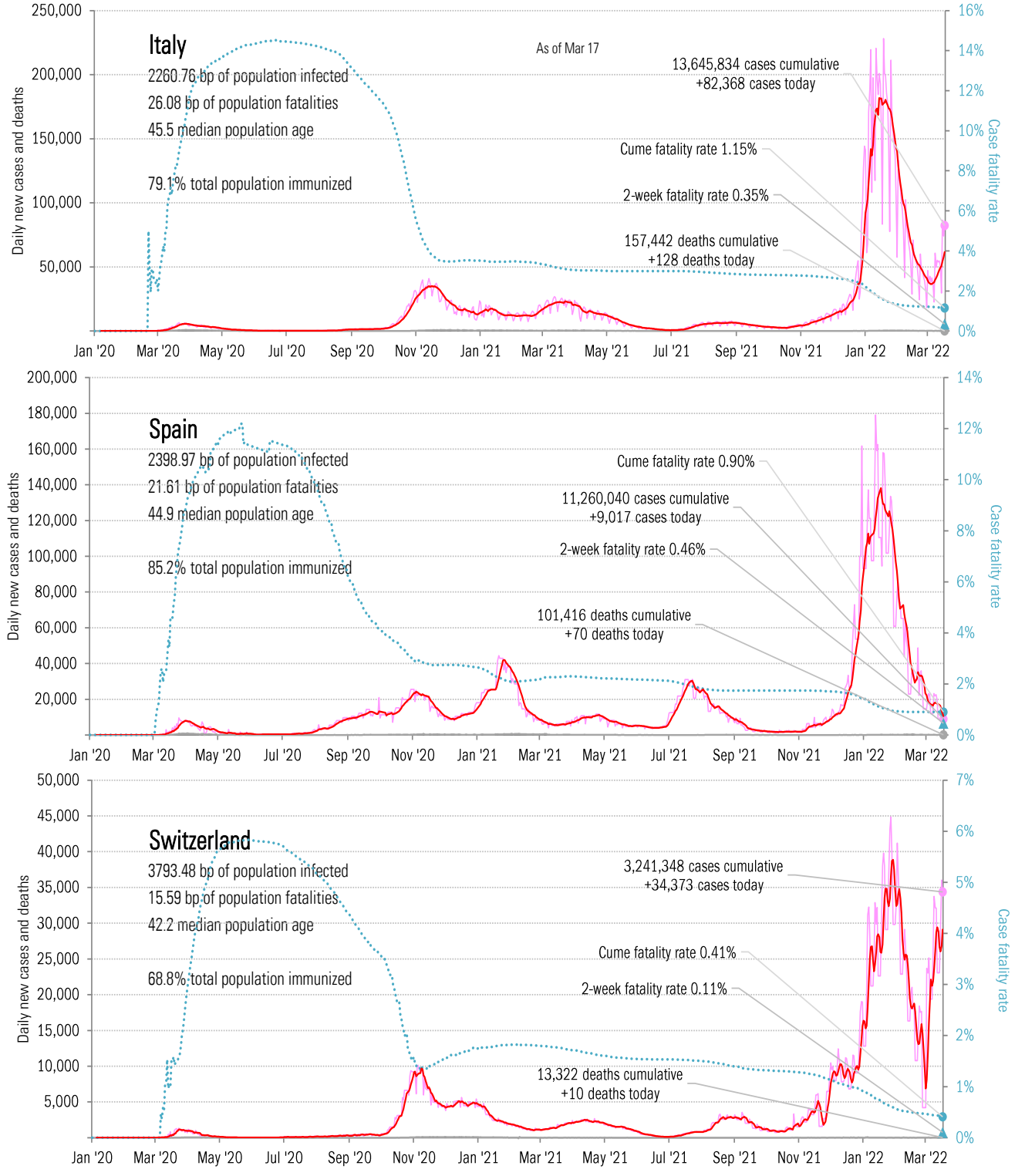
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

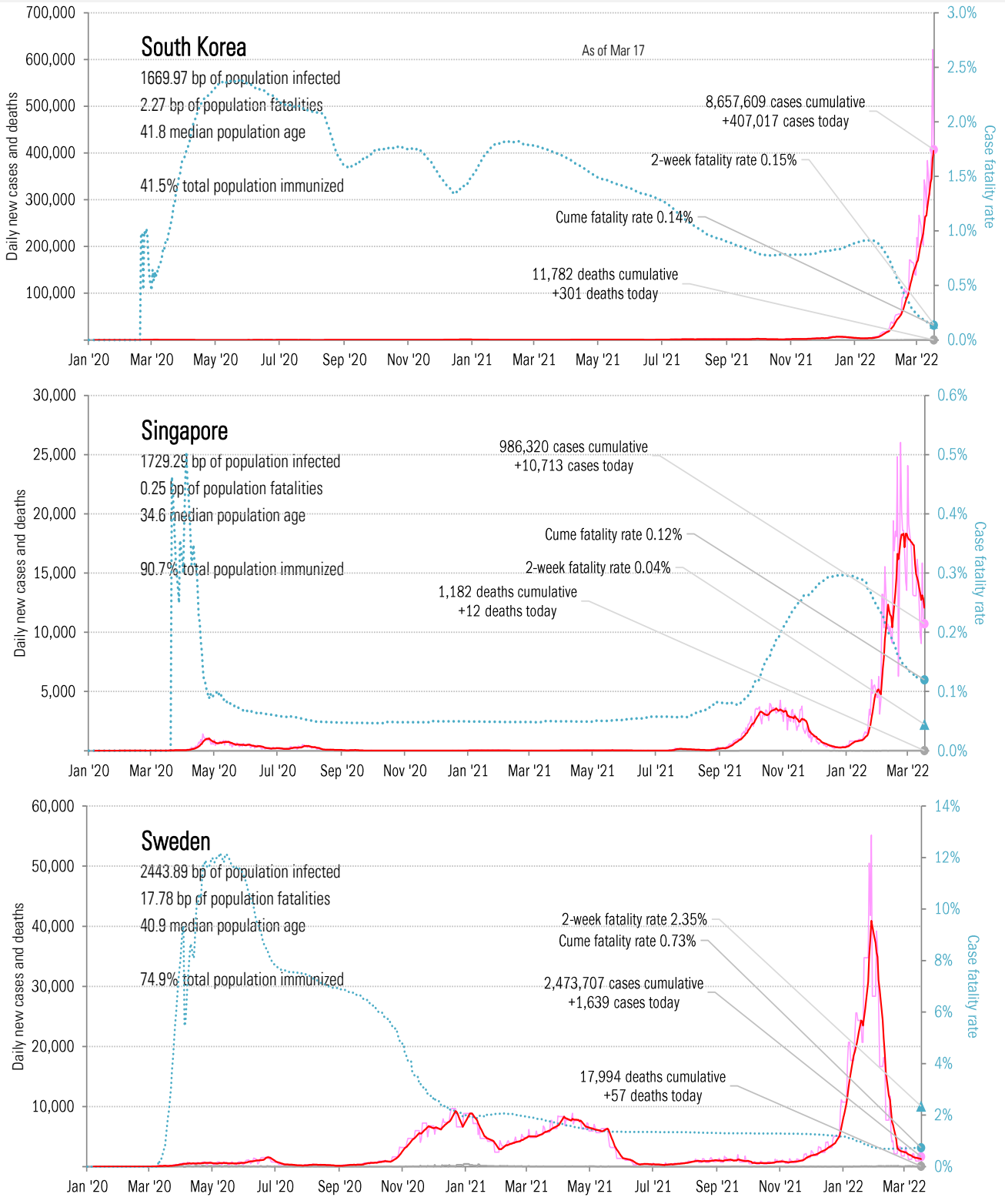
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

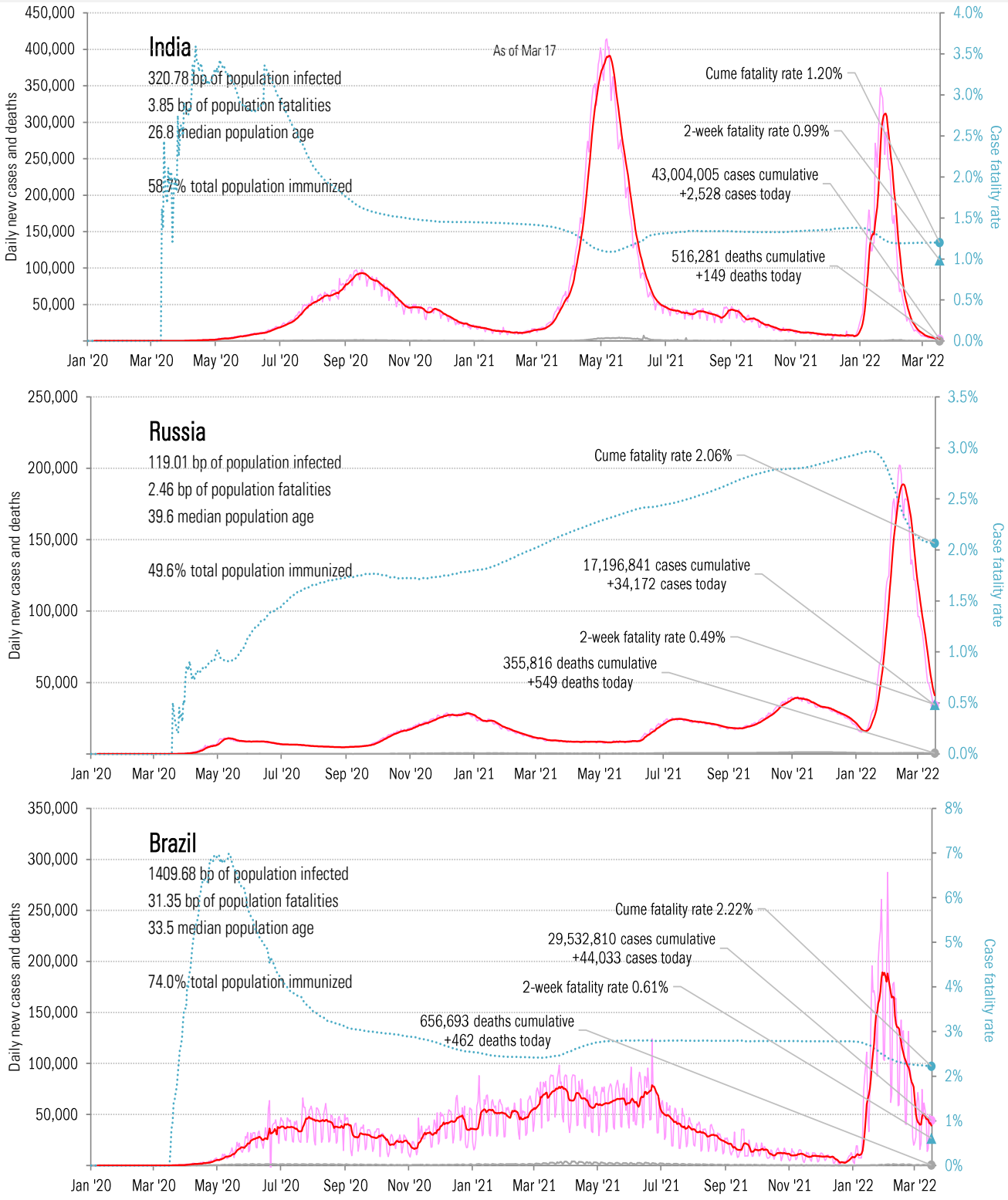
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

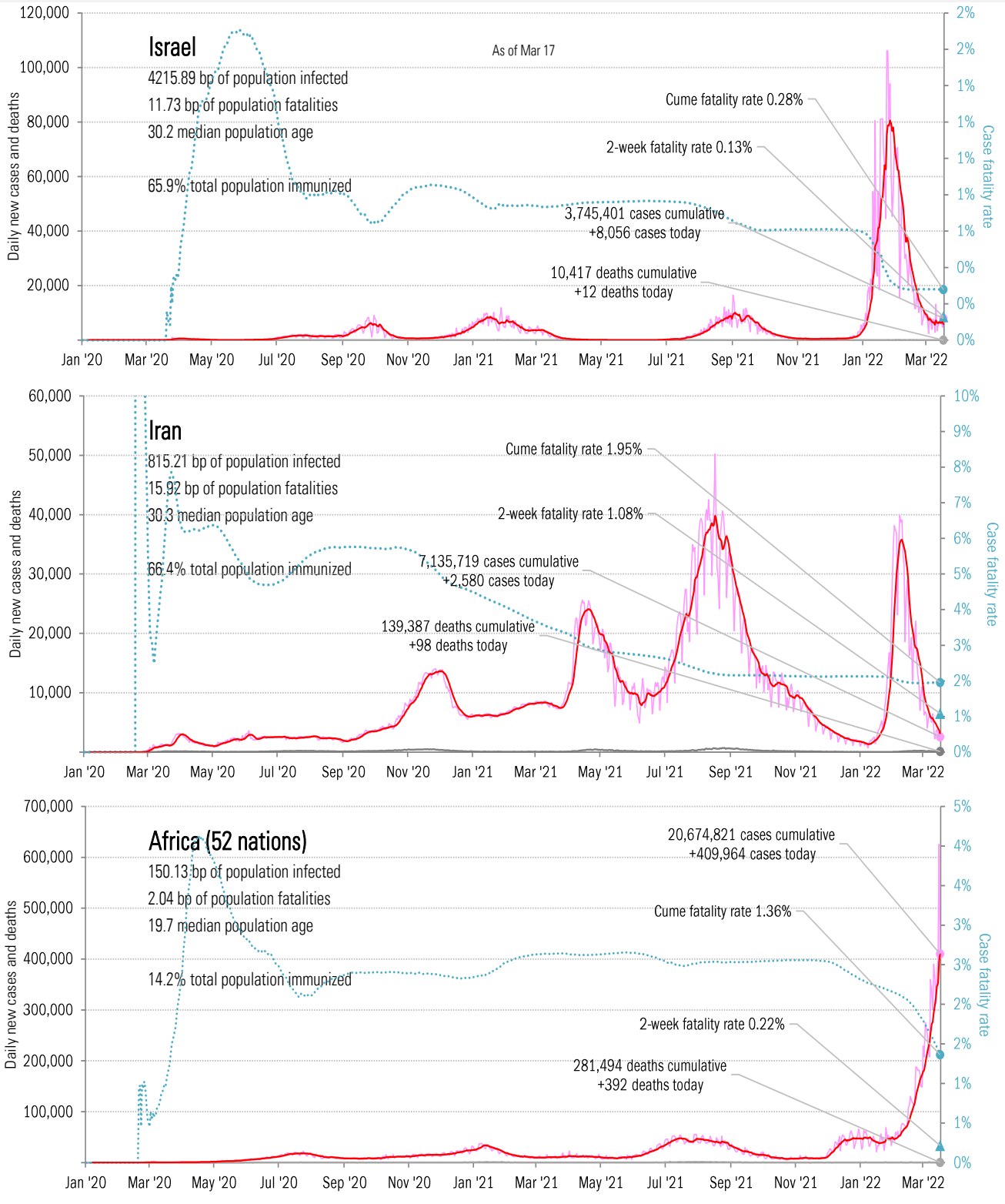
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

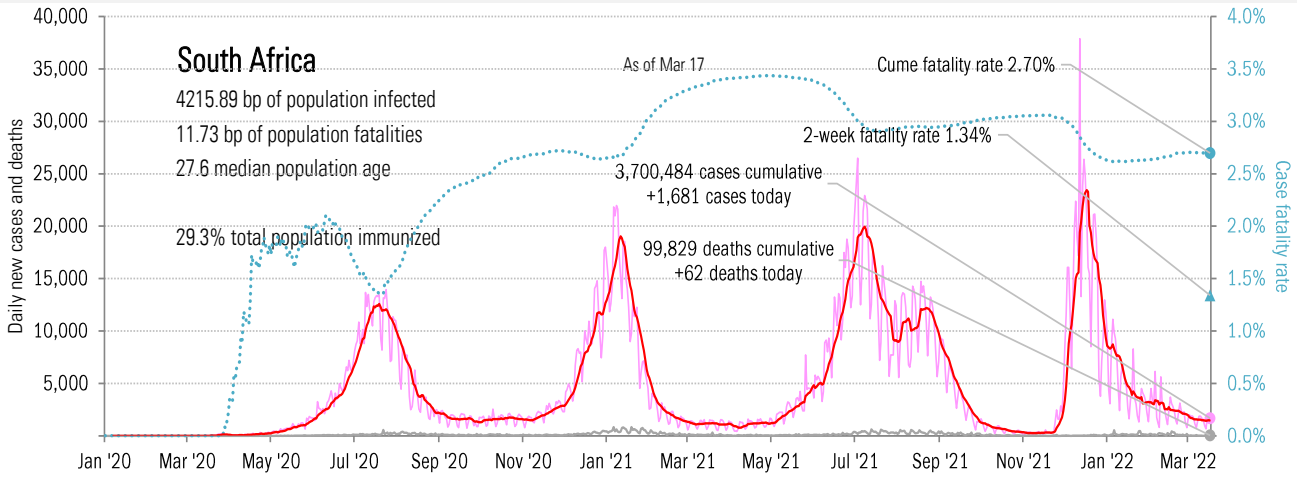
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations