Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

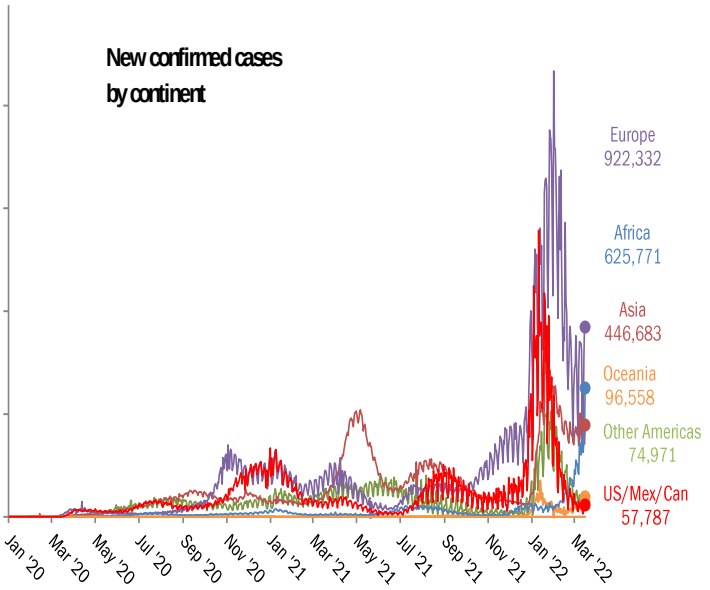
Thursday, March 17, 2022

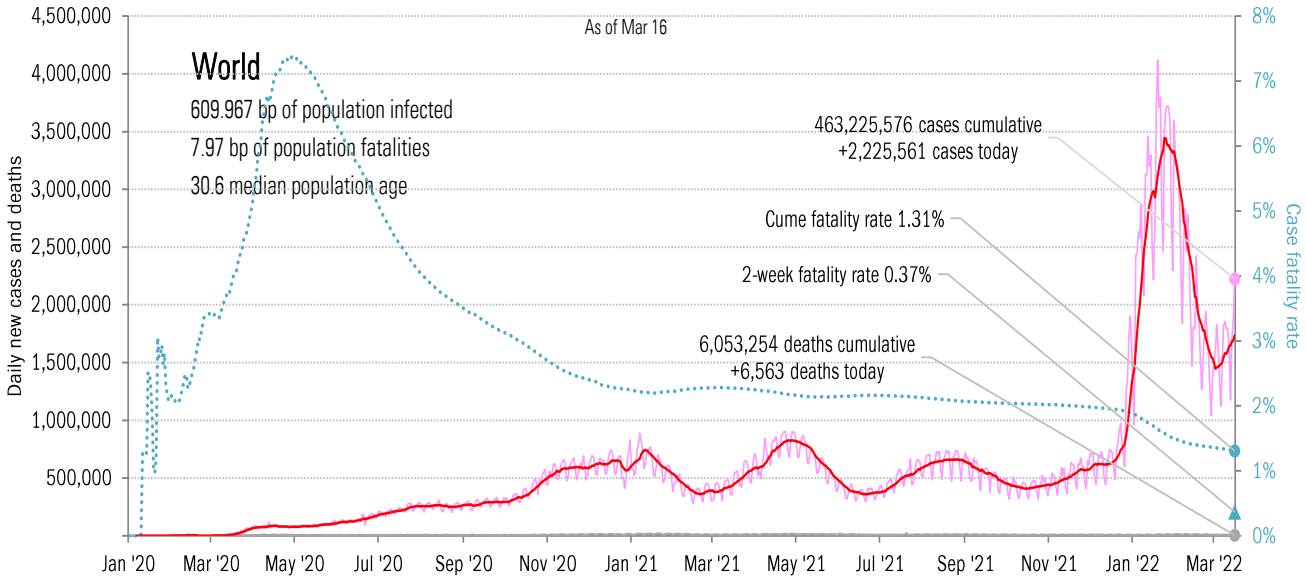
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Korea, South	621,317	United States	624
Germany	294,924	Russia	565
Vietnam	267,540	Korea, South	429
France	108,959	Brazil	353
United Kingdom	93,943	Germany	278
Italy	74,147	Mexico	260
Netherlands	60,387	Indonesia	230
Austria	58,583	Hungary	178
Japan	57,822	France	173
Australia	57,148	Japan	163
	1,694,770		3,253
World	2,225,561	World	6,563
Top ten	76%	Top ten	50%





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

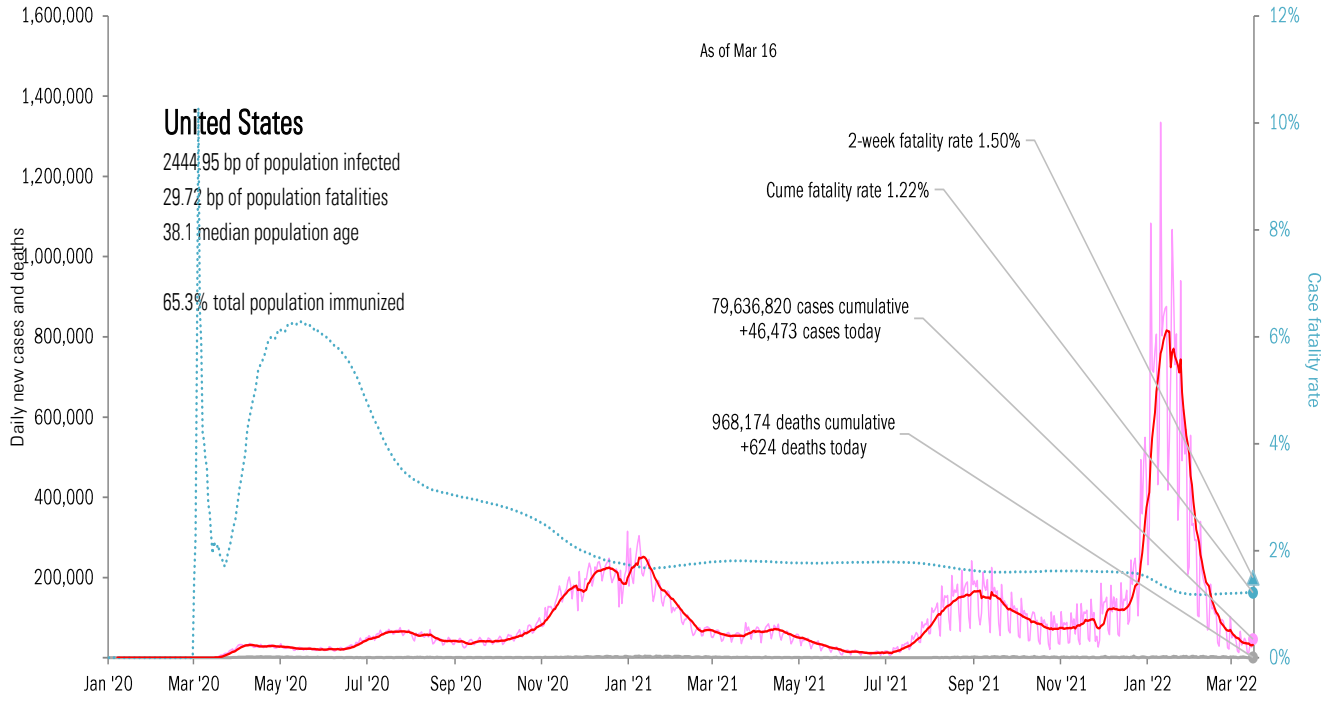
New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
NV	16,412	TN	532	AR	128	CA	9,050,936	CA	87,750	TX	484,404	NV	88%	KY	84%
TX	2,994	AZ				TX	6,679,619	TX	86,626	CA	419,759	RI	83%	TX	82%
CA	2,964	CA				FL	5,873,375	FL	72,091	FL	411,658	MN	83%	AL	81%
MI	2,094	MI				NY	4,954,524	NY	67,764	NY	243,195	MA	83%	RI	80%
NY	2,039	FL				IL	3,050,647	PA	43,962	GA	205,987	PA	81%	NH	78%
NJ	1,683	TX				PA	2,772,116	OH	37,410	OH	189,219	NH	81%	NM	78%
CO	1,660	IA				OH	2,663,835	GA	36,367	PA	174,675	WV	81%	MS	78%
FL	1,459	GA				NC	2,612,382	IL	35,597	IL	155,491	MO	81%	NV	77%
GA	1,382	KS	60	PR	3	GA	2,480,368	MI	35,353	MI	139,747	DC	80%	AK	77%
VA	1,222	PA	53	WY	2	MI	2,375,430	NJ	33,136	KY	139,272	GA	79%	PA	77%
	33,909		1,771		189		42,513,232		536,056		2,563,407				
All states	46,473		624		-469	All states	79,636,820		968,174		4,648,895	All states	70%		67%
Top ten	73%		284%		-40%	Top ten	53%		55%		55%	Median	74%		71%

New deaths and new in hospital figures are distorted today by revisions.

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
FL	-2,195	MO	-296	MA	-34	UT	+20 bp
NY	-1,089	AL	-52	WI	-12	AR	+10 bp
NC	-649	LA	-27	NE	-10	GA	+10 bp
SC	-612	WY	-20	HI	-8	IA	+10 bp
IL	-543	CT	-18	AL	-7	MA	+10 bp



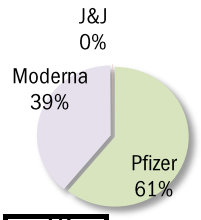
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	572,648,576				+0.120 million
Boosters	97,492,539				+0.047 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	262,399,377	79%	223,059,115	67%	+0.031 million
Age 12 to 17	17,457,205	69%	14,883,741	59%	+0.004 million
Age 18 to 64	176,809,732	87%	149,935,398	74%	+0.017 million
Age 65 and over	58,266,489	100%	50,430,536	92%	+0.003 million

Immunity	Full	Partial
US	65.3%	76.7%
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	80.7%	85.9%
Israel	65.9%	72.1%
Canada	81.6%	85.8%
Japan	79.7%	81.0%
Africa	14.2%	19.7%
India	58.6%	69.6%
Brazil	74.0%	84.1%
China	85.8%	88.1%

Global data differs due to sources, timing



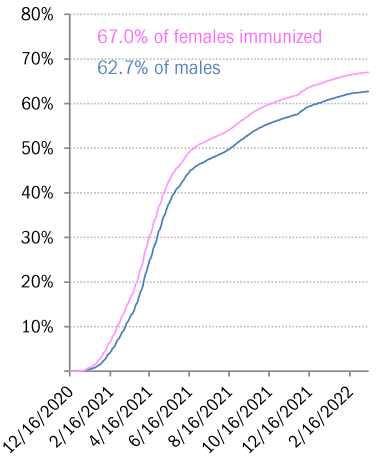
State
At least partial immunity as % population
Full immunity as % population
"Immunity" = two doses

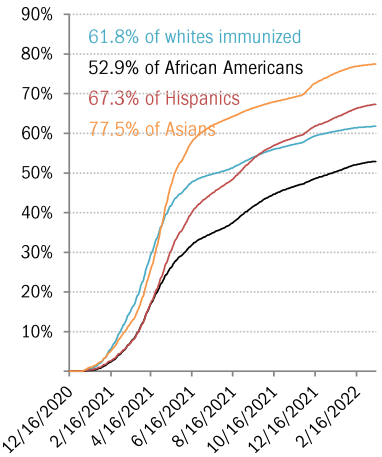
Best
Middle
Worst

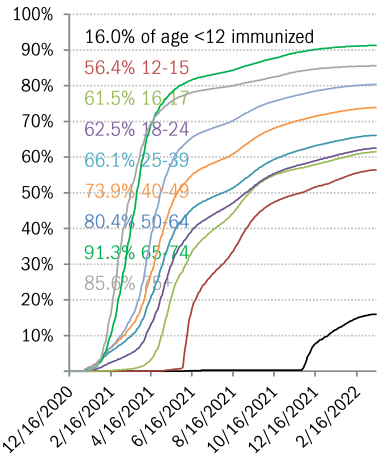
As of Mar 16

					WI					ME
					71.3%					89.3%
					64.9%					78.6%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
80.1%	60.5%	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%	67.9%	59.6%		75.9%	80.4%	69.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
77.2%	74.4%	58.2%	75.3%	67.5%	60.9%	63.1%	83.7%	89.4%	95.0%	
69.0%	60.0%	50.9%	60.3%	61.4%	54.3%	57.9%	67.3%	74.7%	78.0%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
82.2%	71.5%	78.7%	69.6%	65.6%	65.6%	64.4%	84.8%	85.3%	94.3%	95.0%
70.9%	63.6%	69.5%	62.8%	55.4%	56.8%	57.0%	72.3%	74.4%	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%	70.0%	60.6%	53.8%	53.8%	59.7%	56.4%	72.1%	68.1%	
			OK	LA	MS	AL	GA			
			70.3%	60.5%	59.0%	62.1%	64.7%			
			56.3%	52.9%	51.3%	50.5%	54.0%			
HI			TX					FL		PR
86.8%			71.7%					78.4%		95.0%
77.6%			60.5%					66.2%		81.9%

The demographics of US vaccination



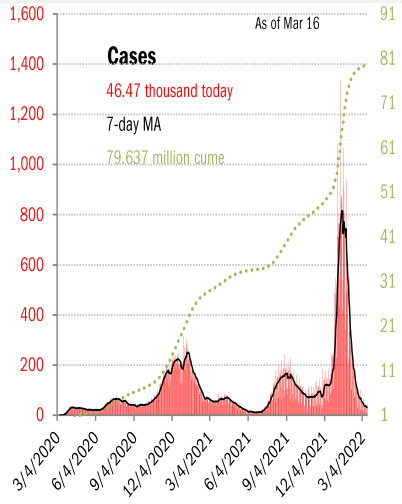


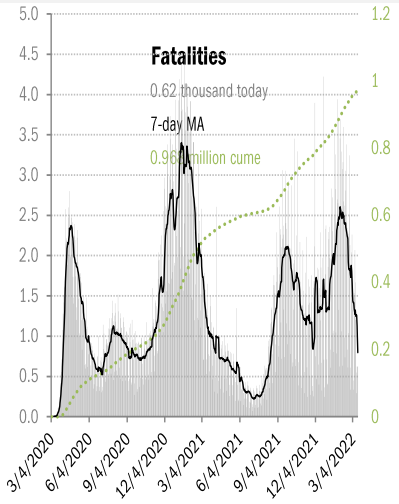


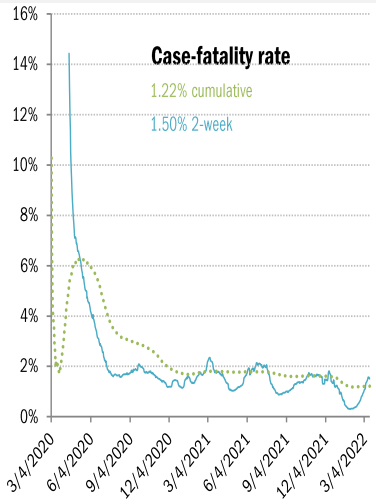
Source: CDC, CDC, Our World in Data, TrendMacro calculations

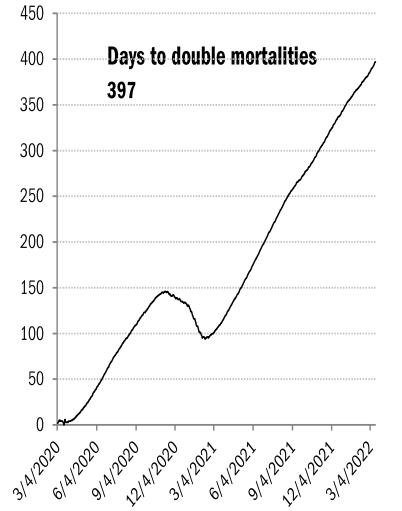
US deep-dive

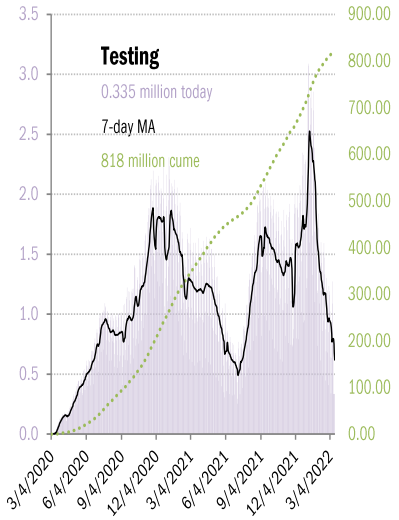
National and state-by-state data do not line up because of different sources

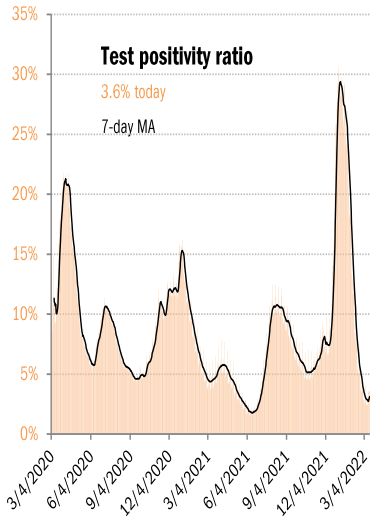


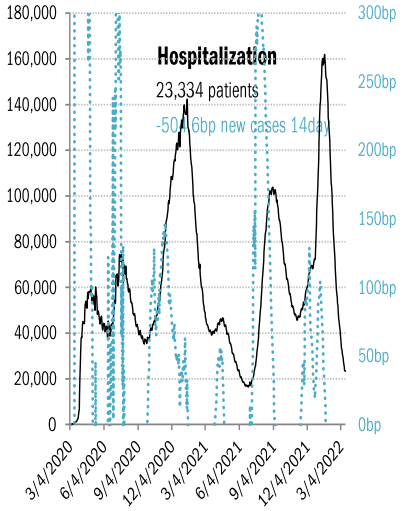


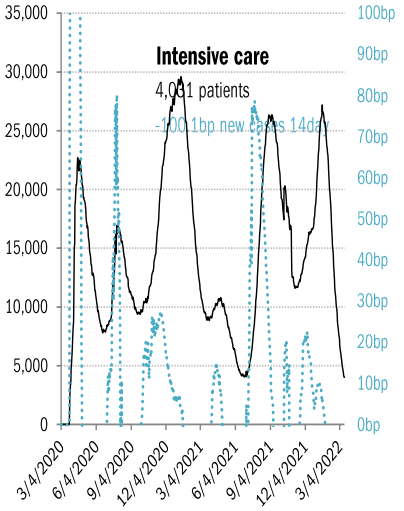


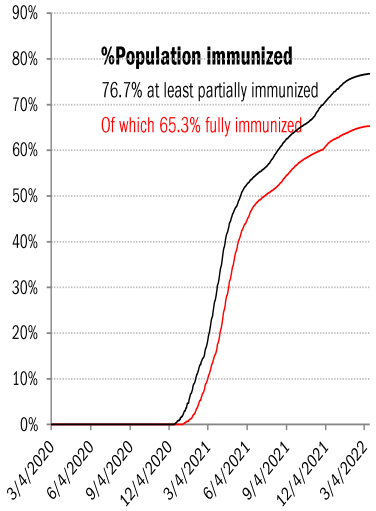












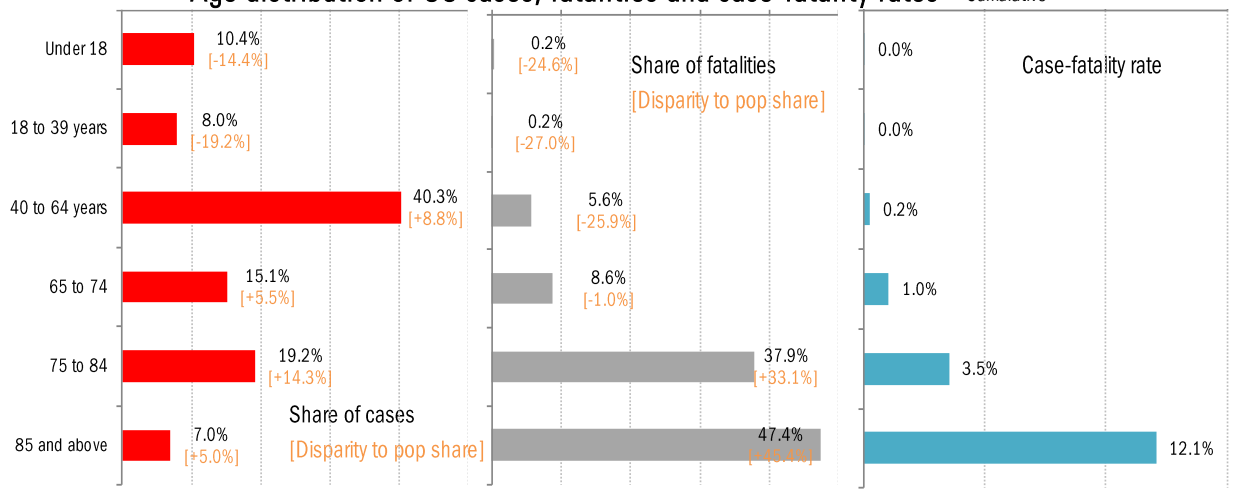
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

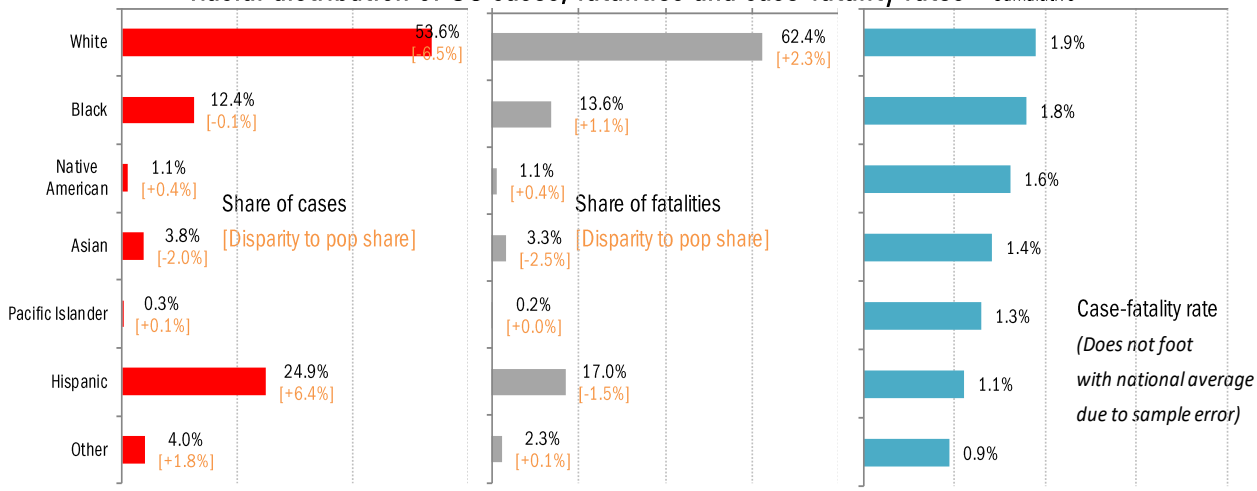
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



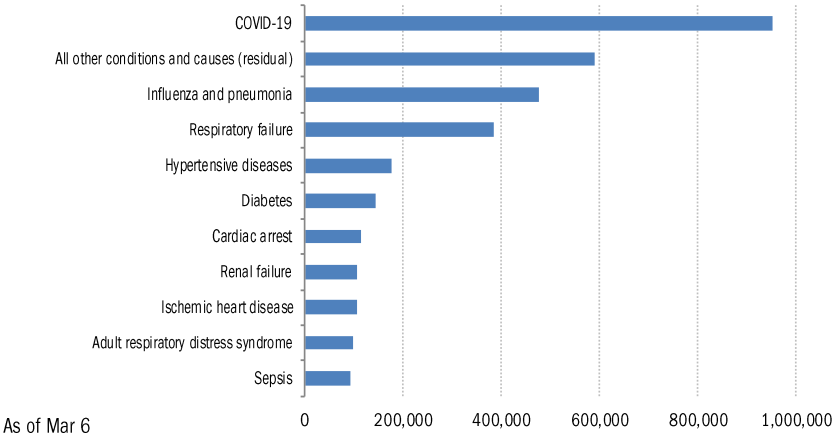
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of 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

As virus data grows, the J.&J. vaccine holds its own.
Apoorva Mandavilli
New York Times
March 16, 2022

Pfizer asks US to allow 4th COVID vaccine dose for seniors
Zeke Miller and Lauran Neergaard
AP
March 15, 2022

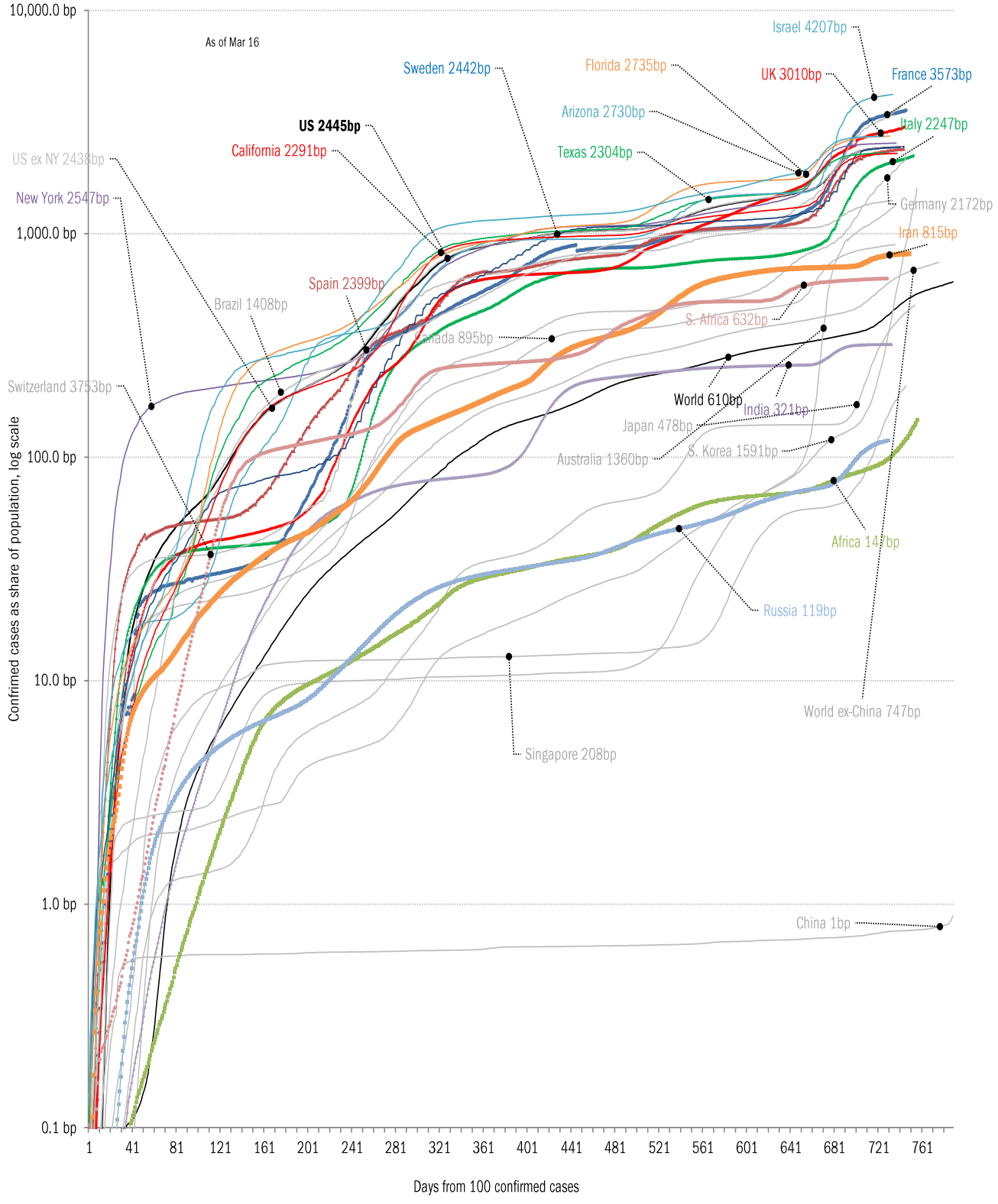
Compromise reached on COVID-19 vaccine intellectual property rights waiver
Ashley Furlong
Politico
March 15, 2022

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

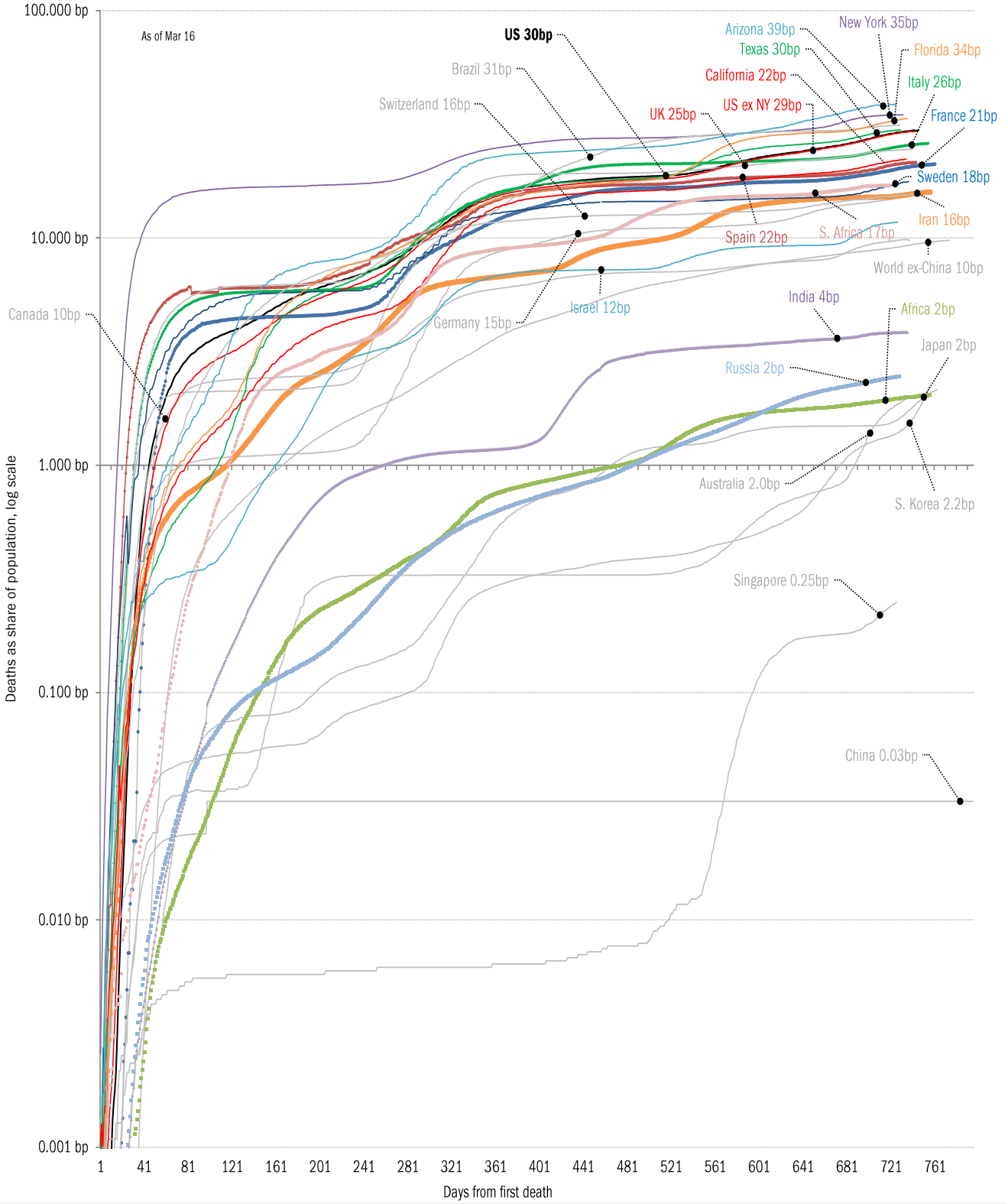
Share of infected population from first day with 100 confirmed cases, log scale



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

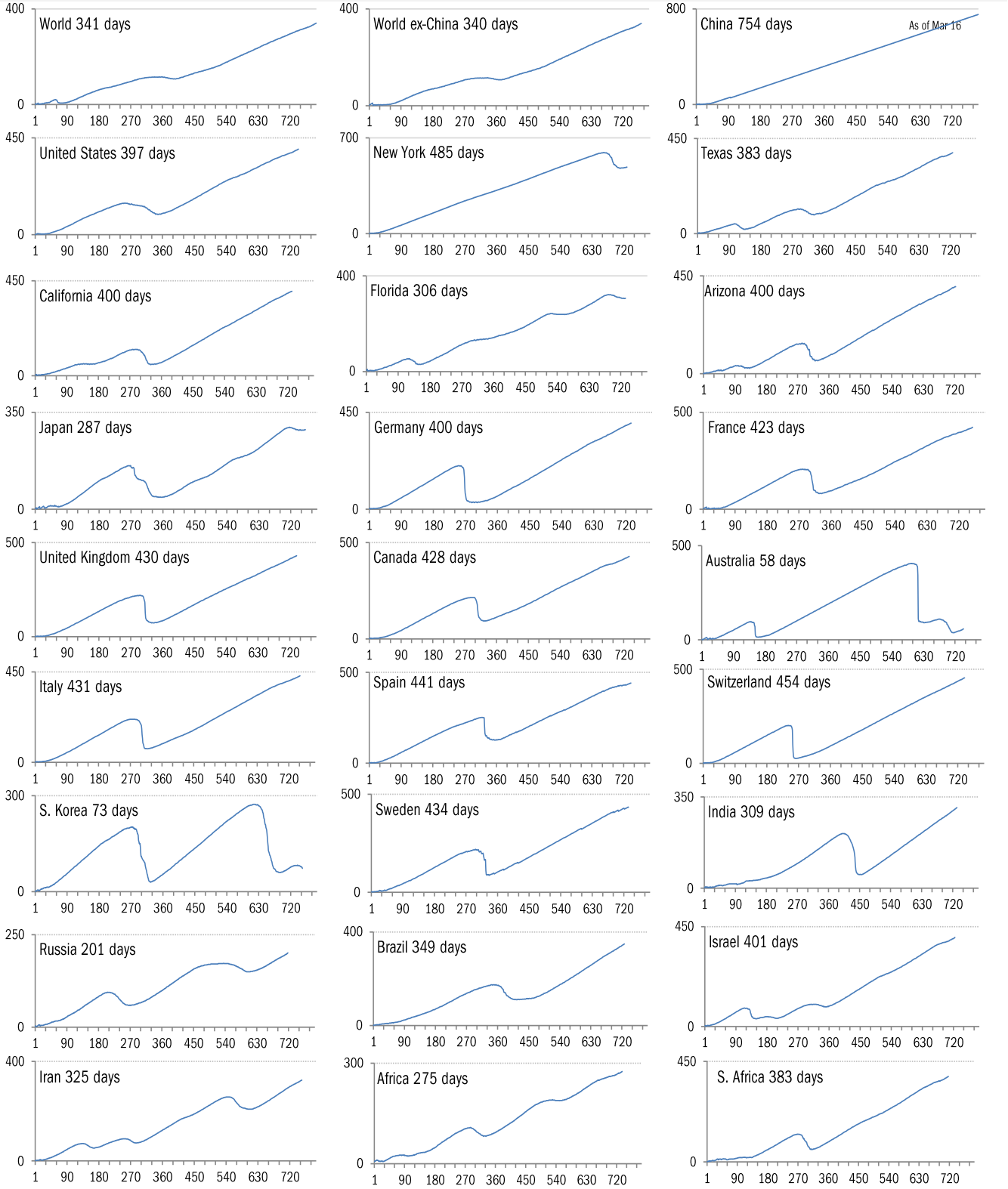


Source: Johns Hopkins, TrendMacro calculations

"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

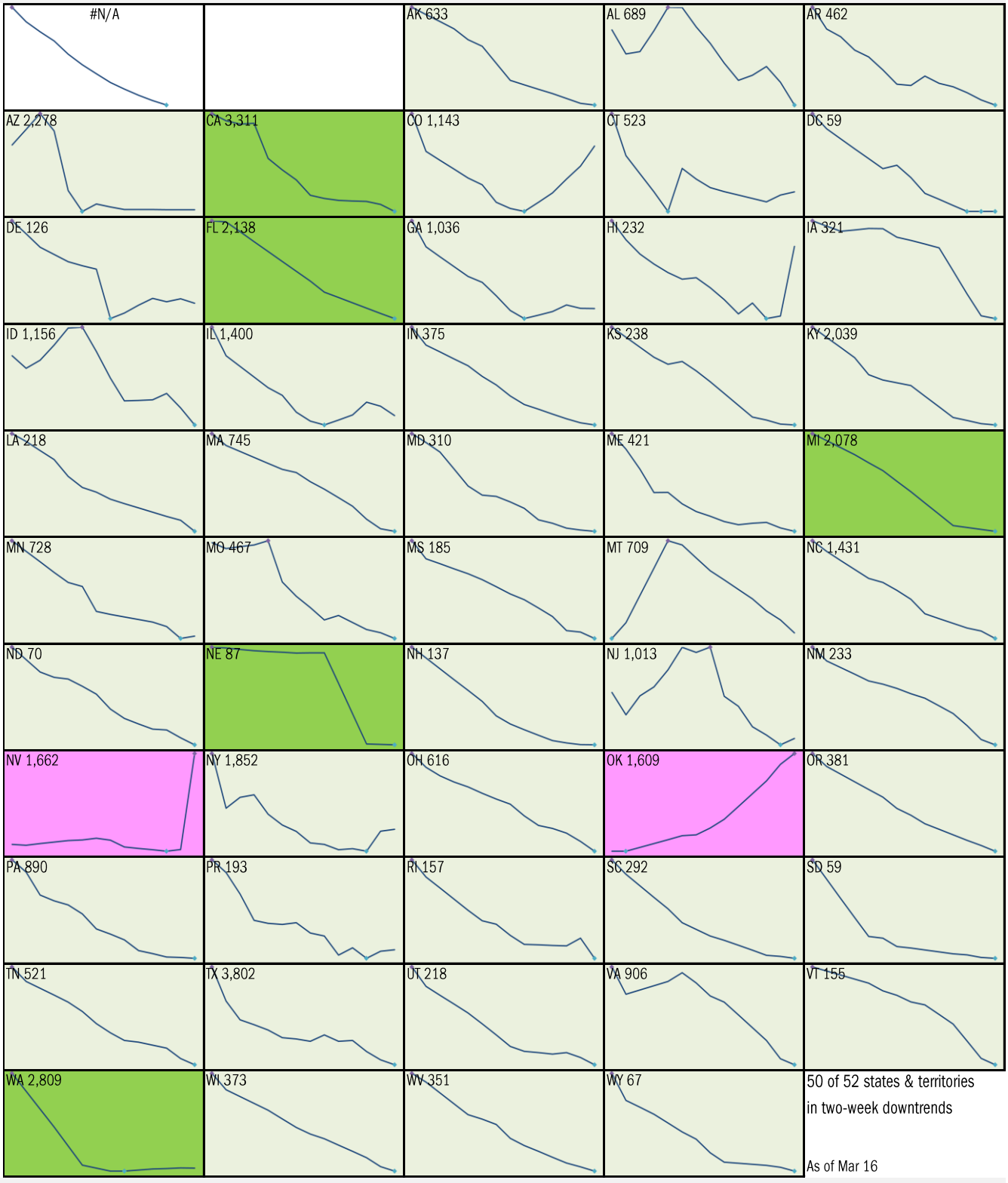


Source: Johns Hopkins, TrendMacro calculations

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

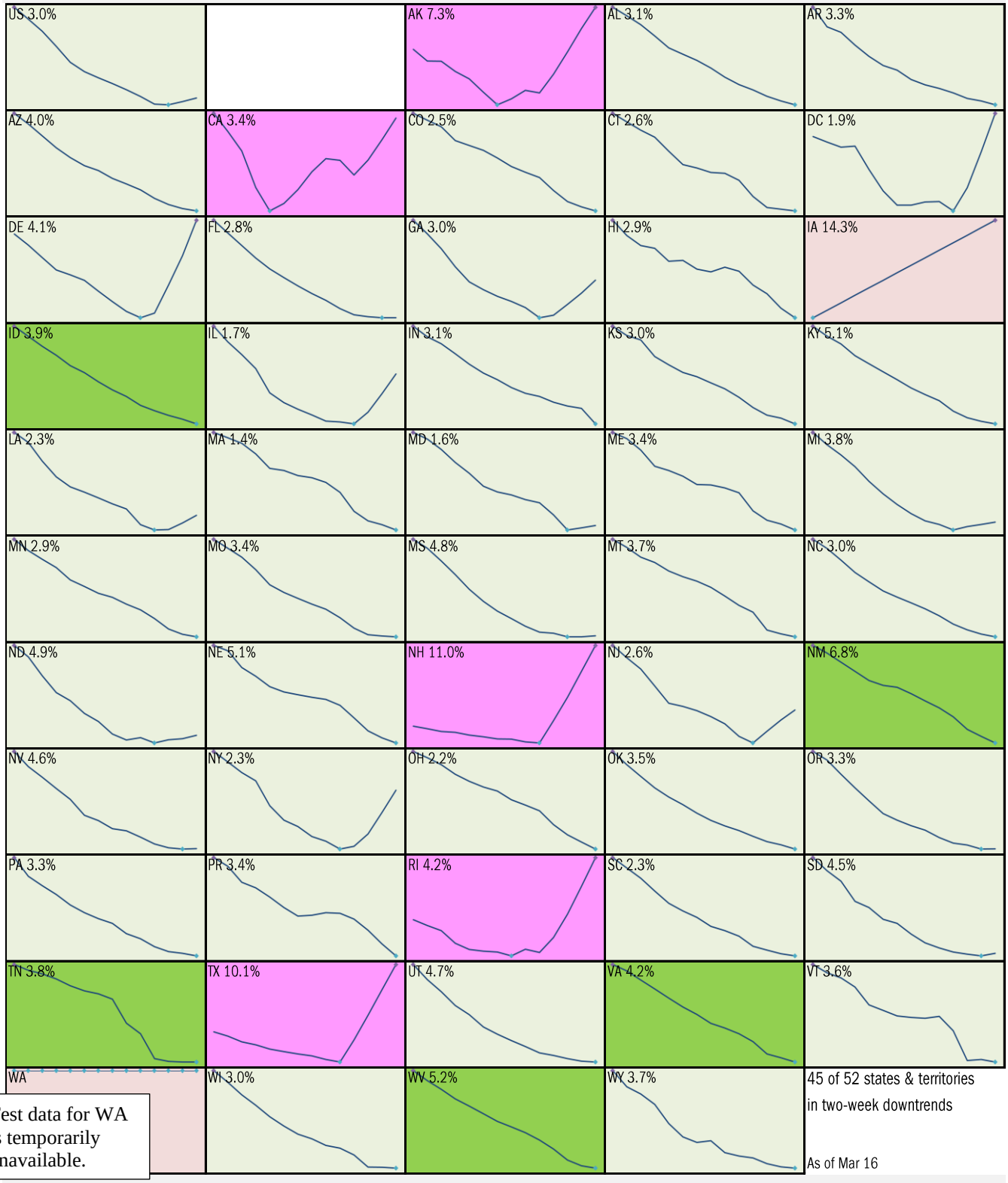


Source: Johns Hopkins, TrendMacro calculations

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

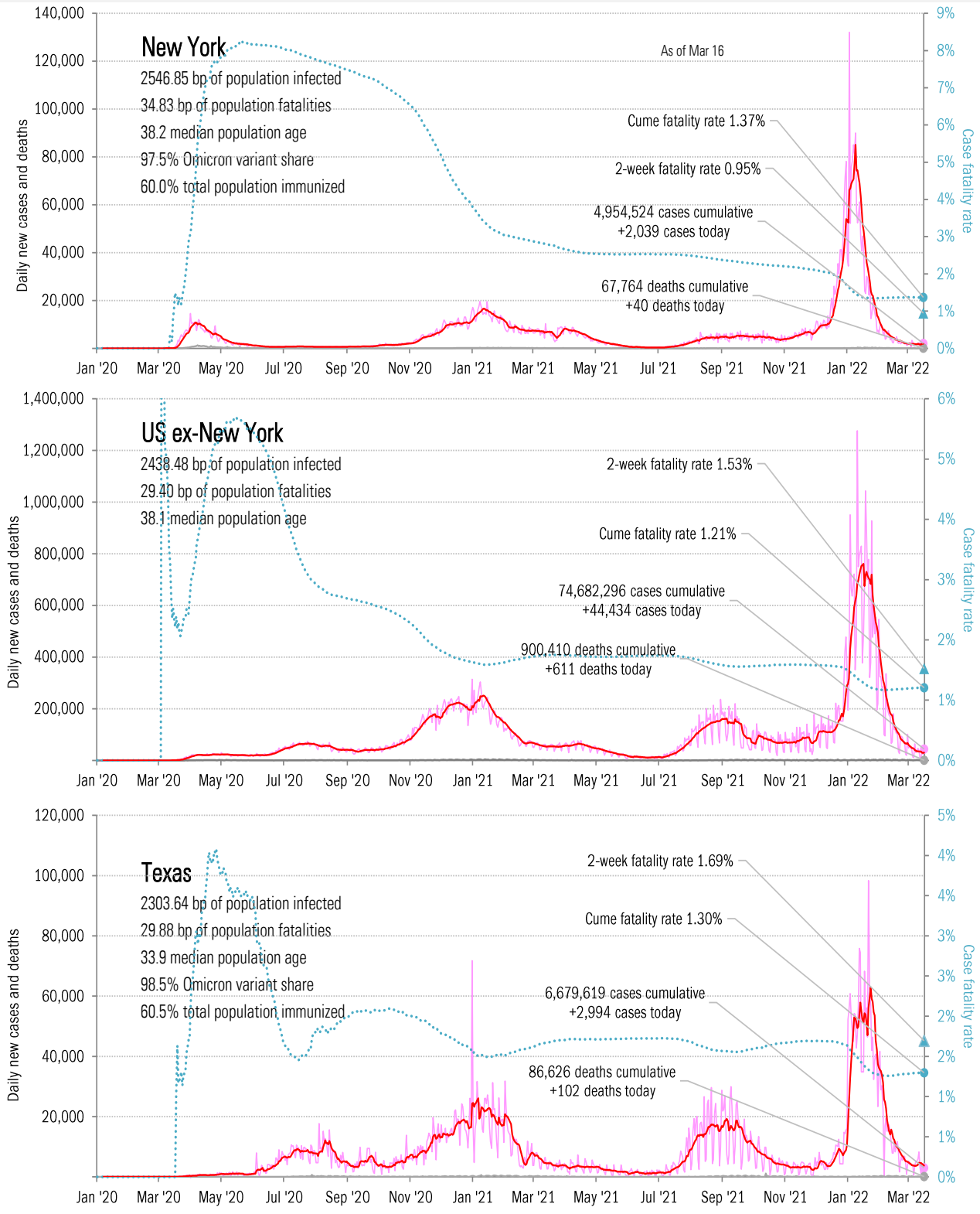


Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

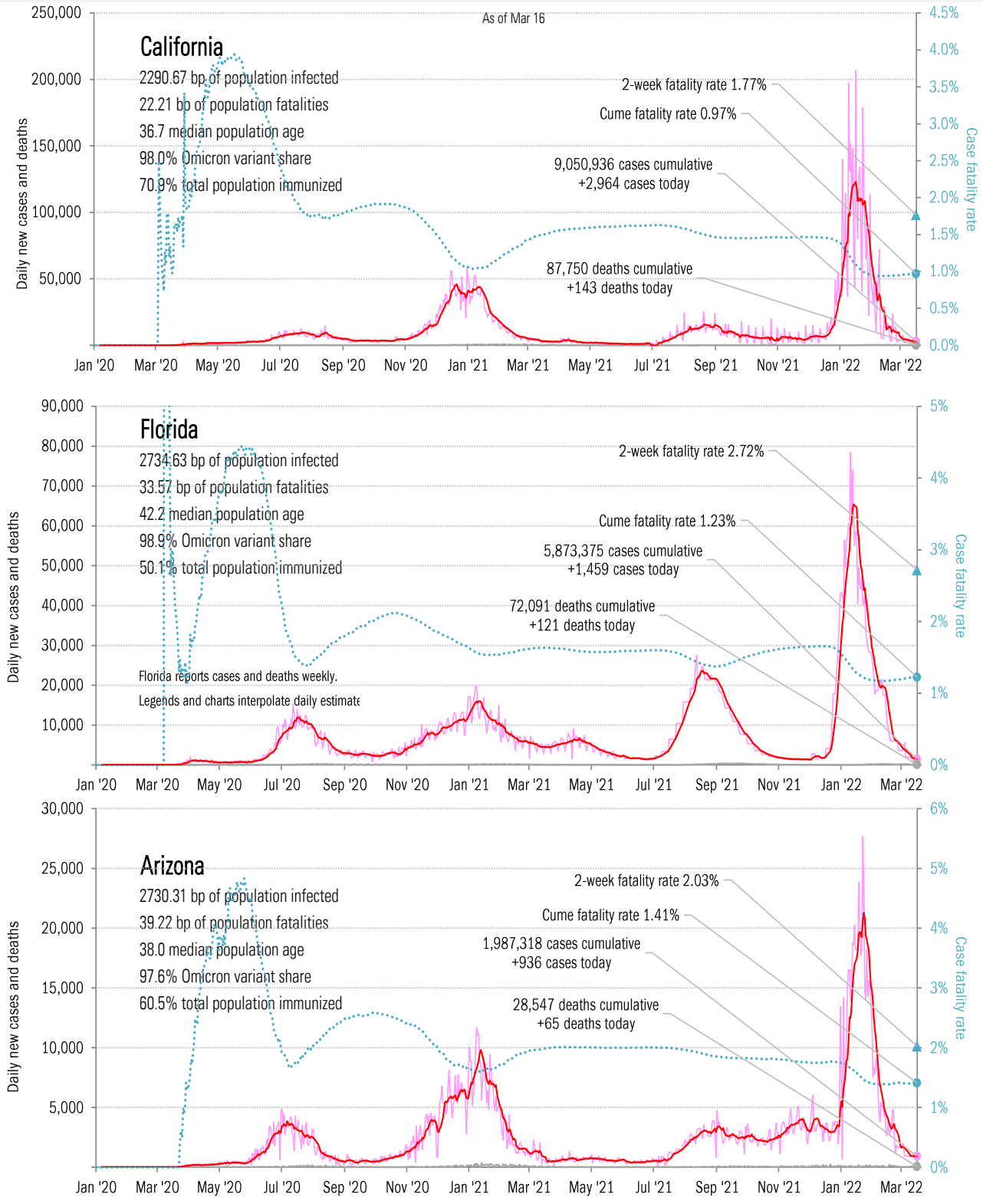
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

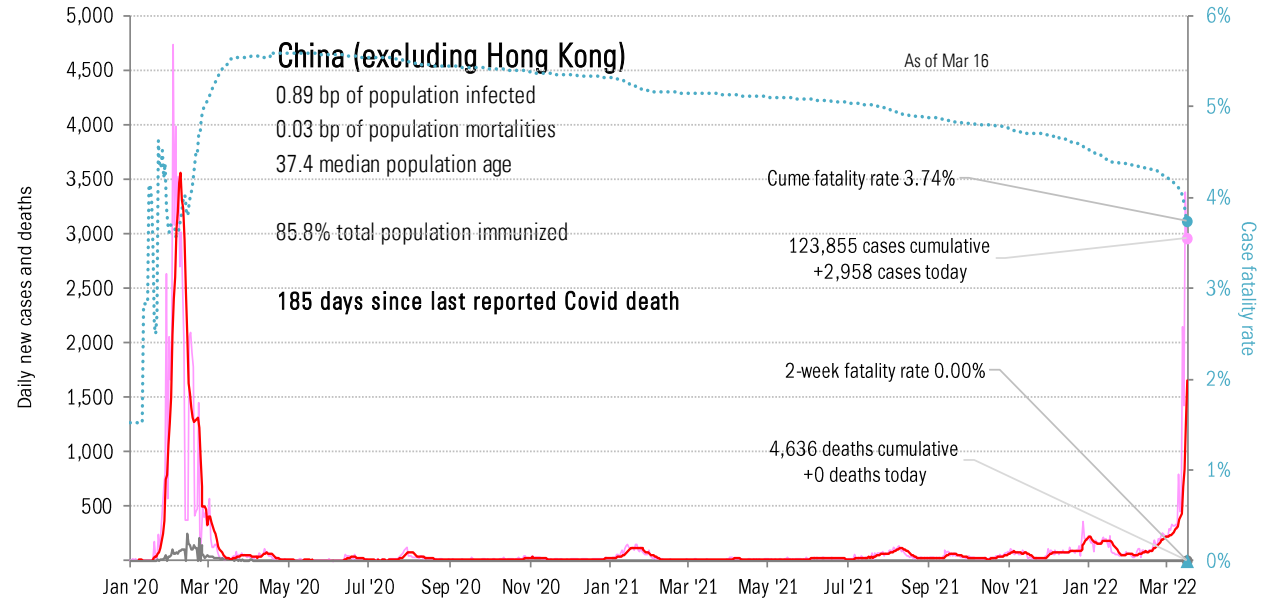
Cases: 7-day average and daily Deaths: Daily

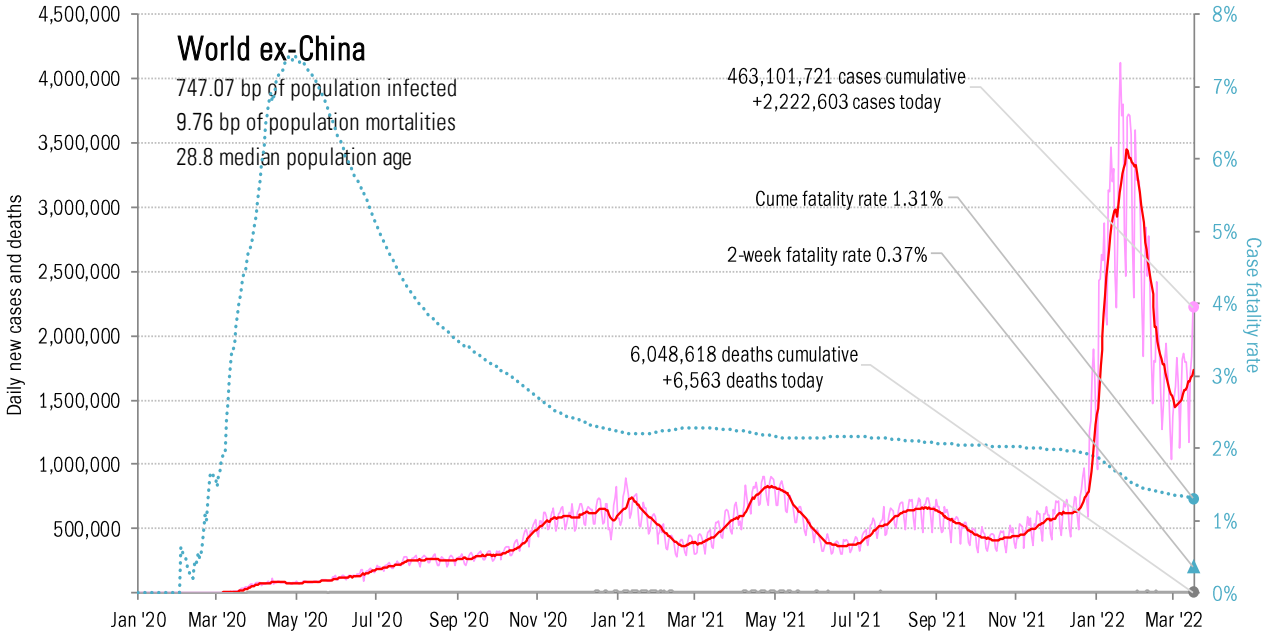


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

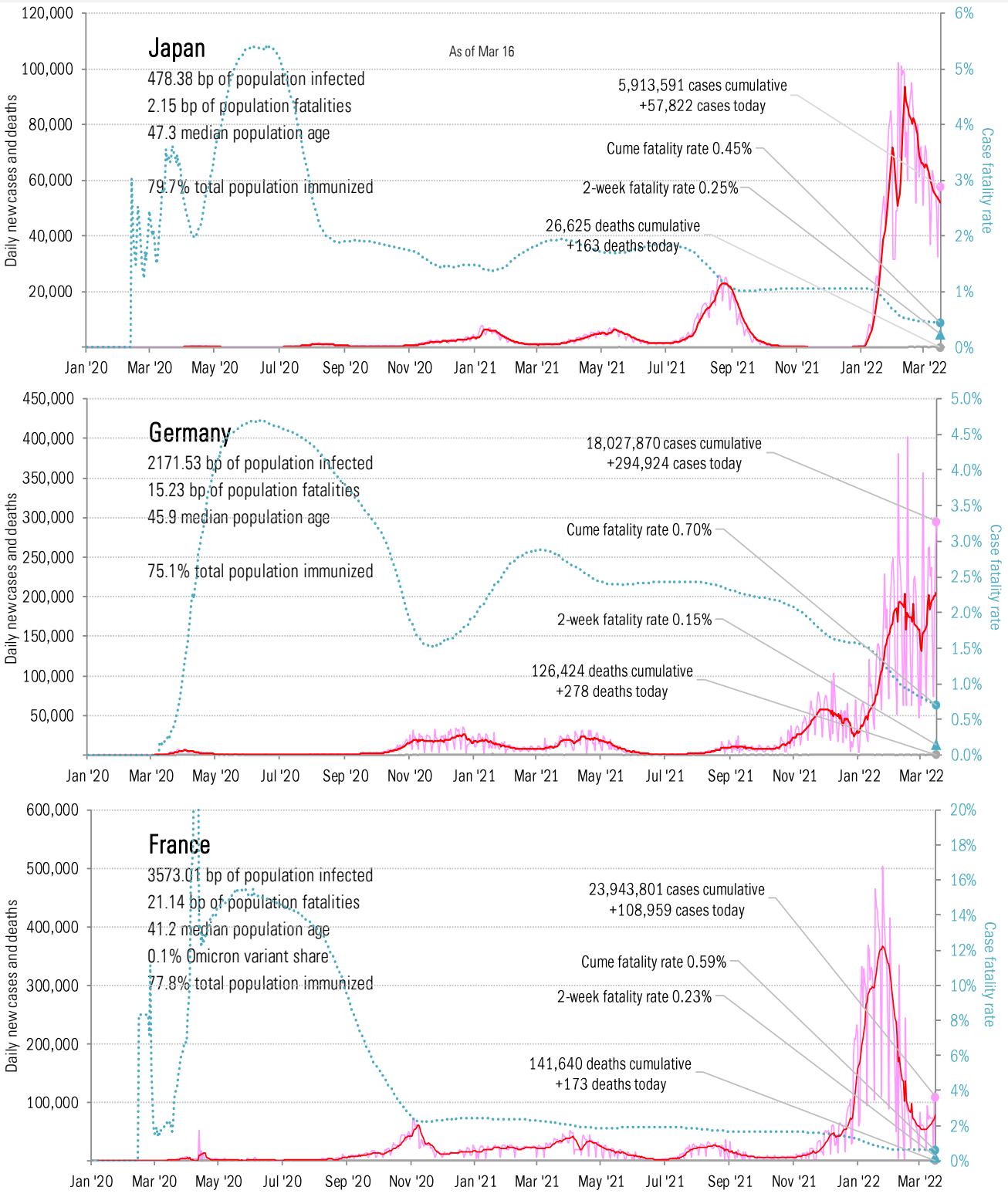




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

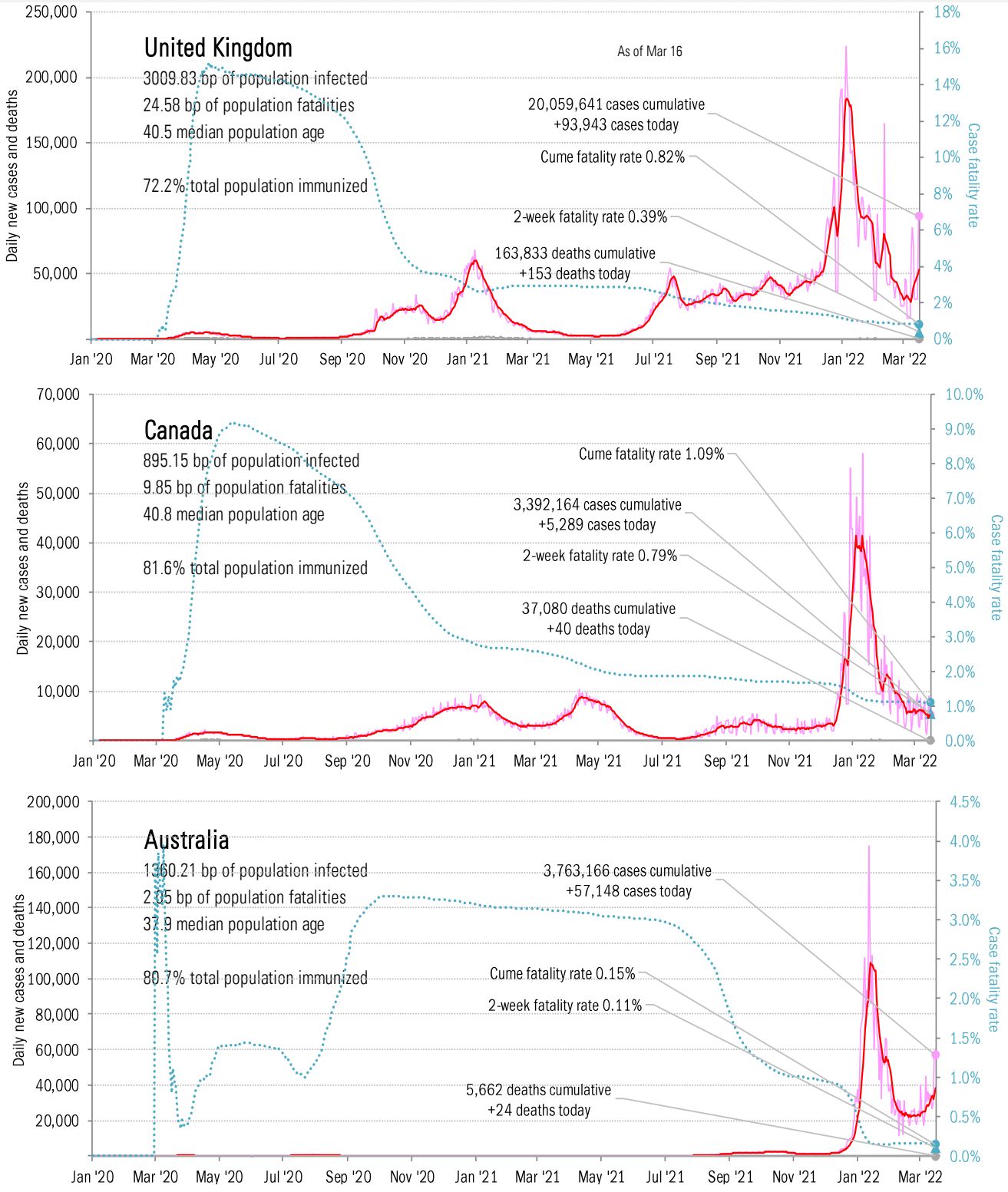
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

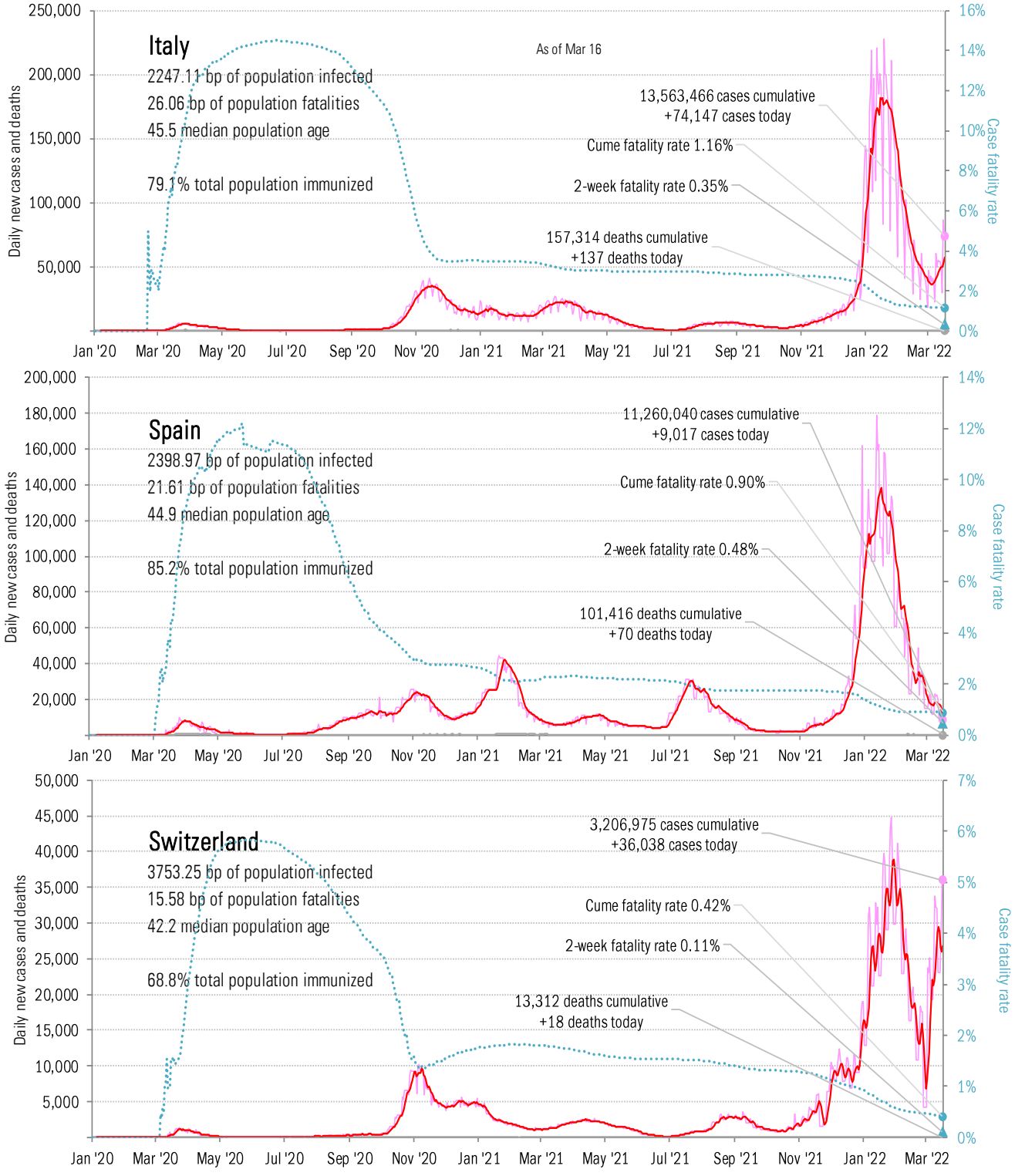
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

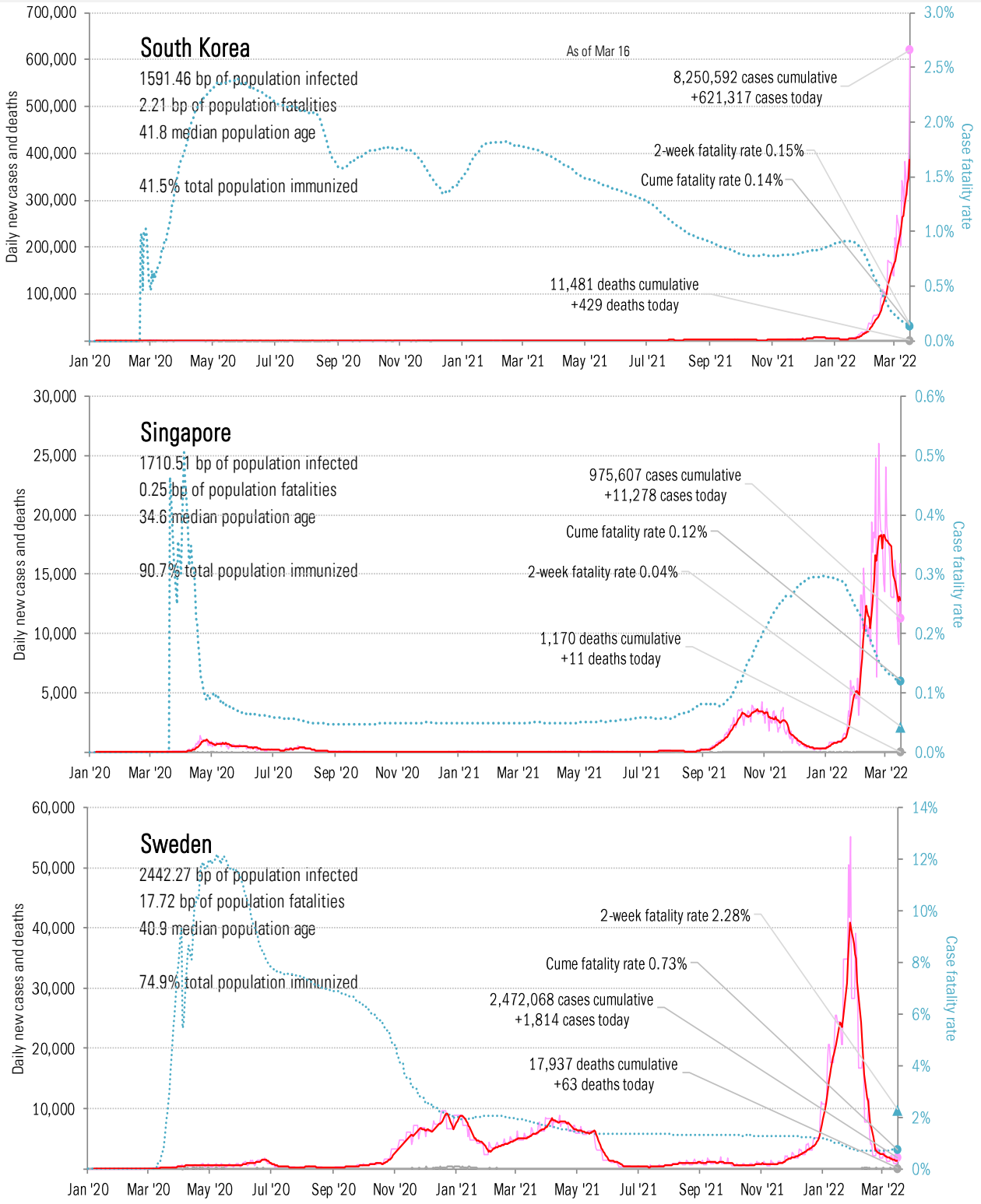
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

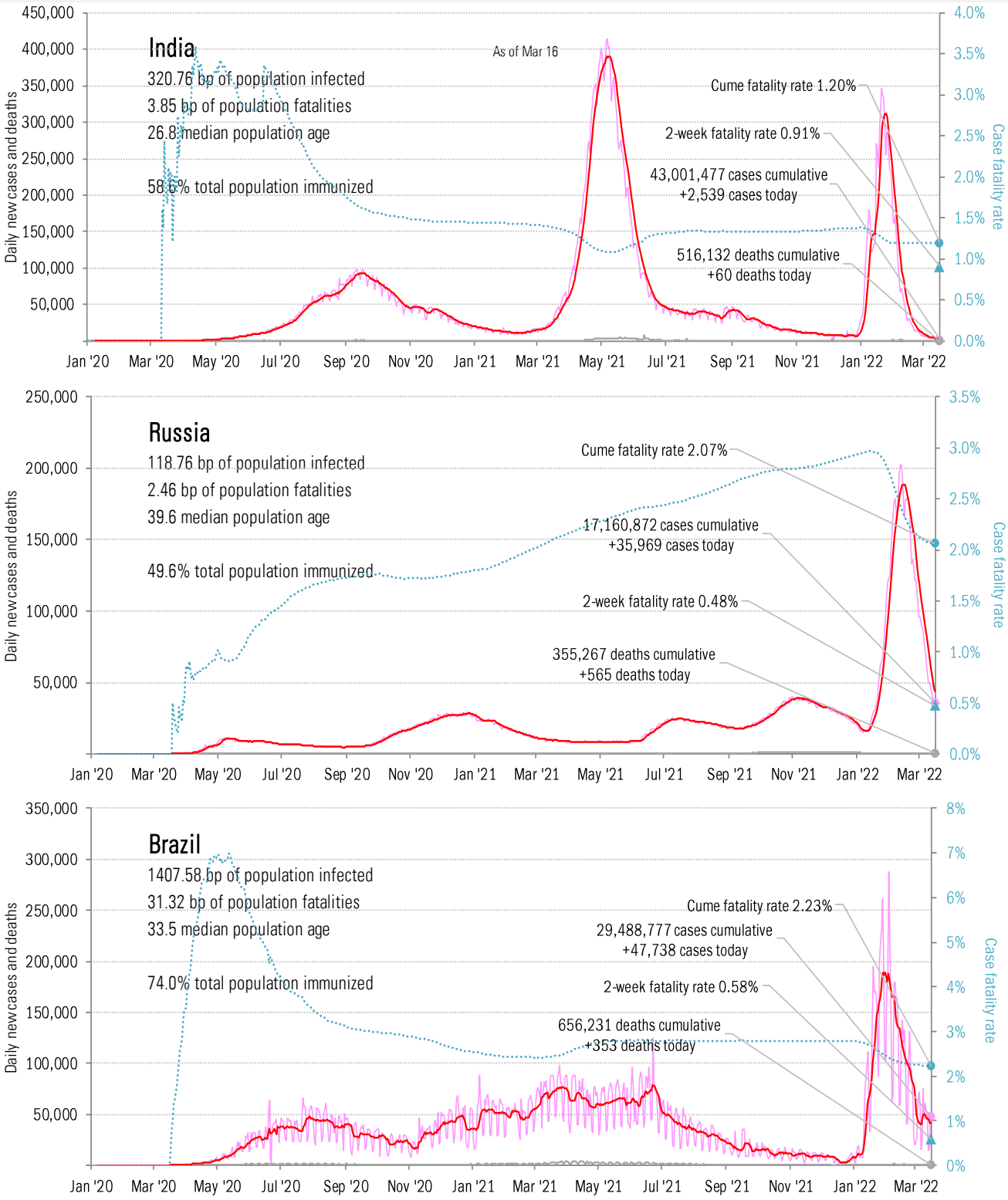
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

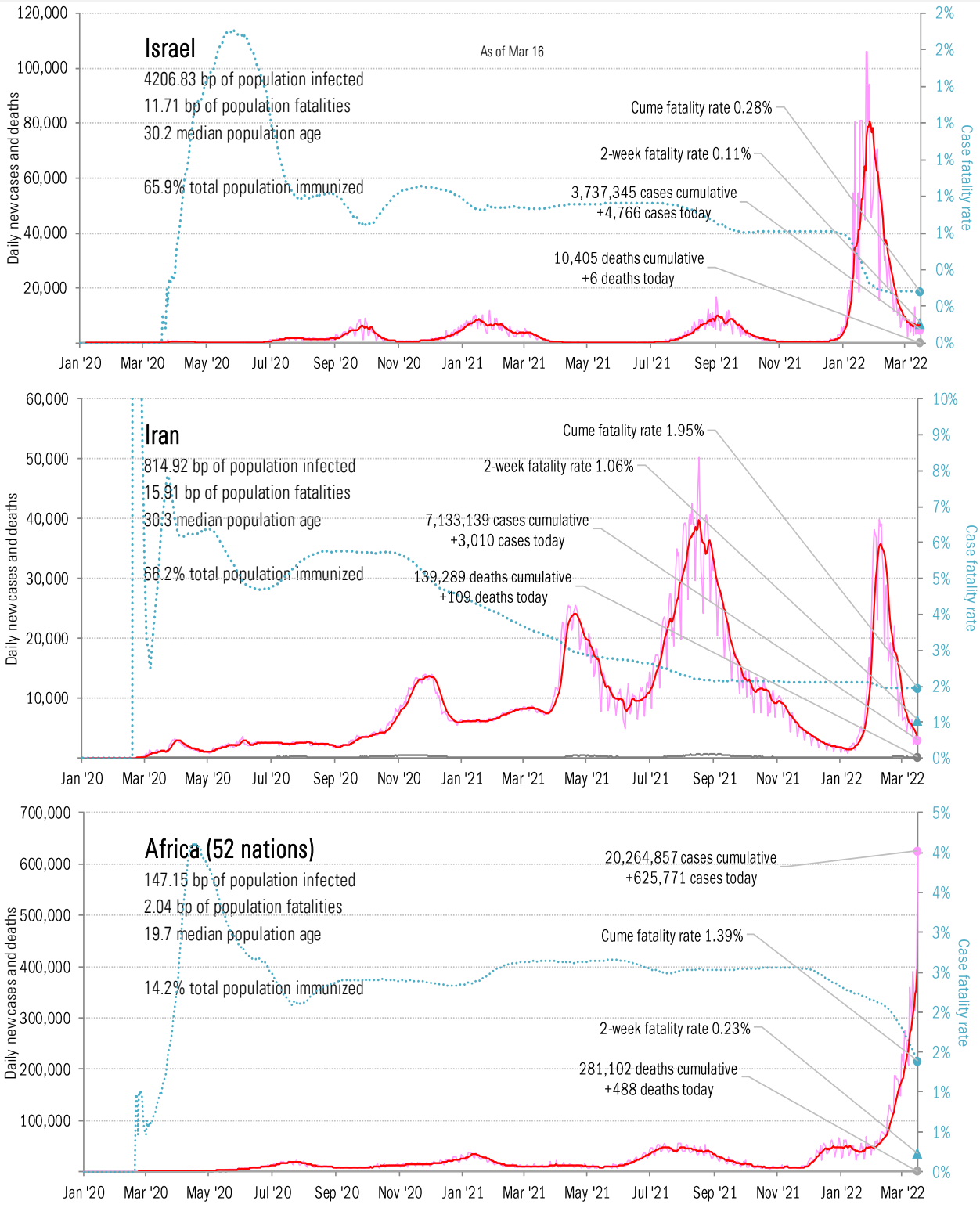
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

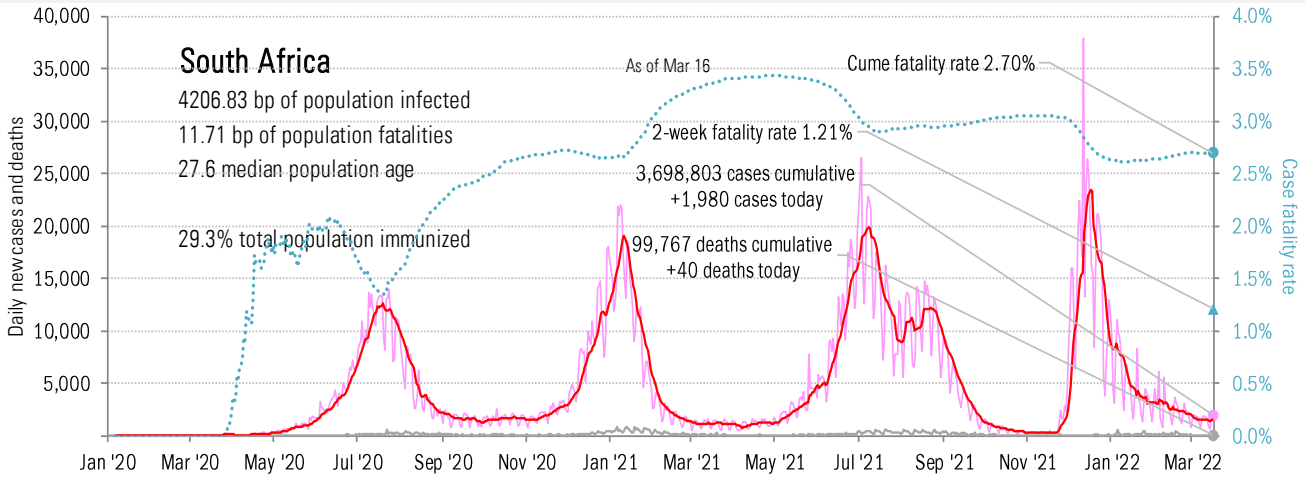
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations