Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

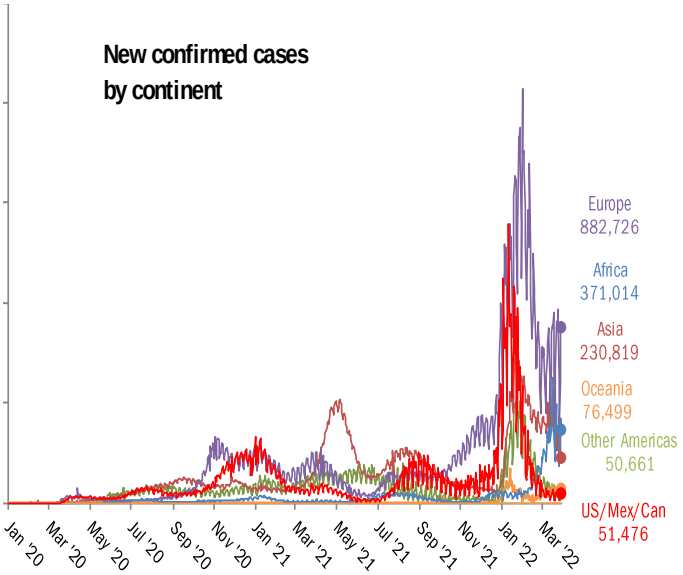
Thursday, March 31, 2022

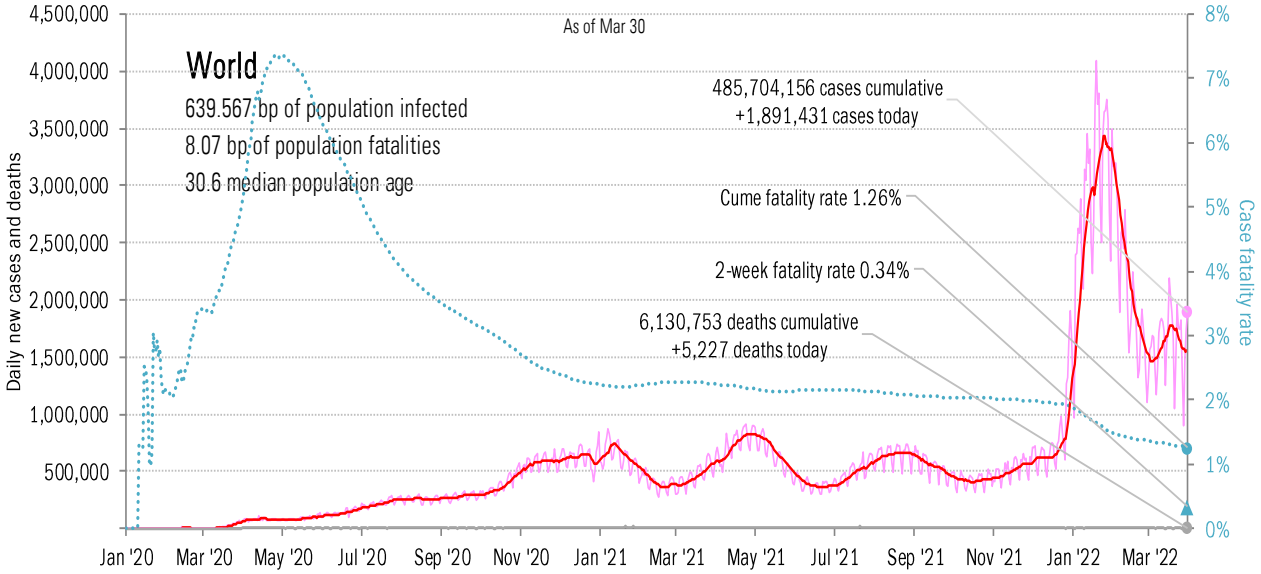
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Korea, South	320,675	United States	1,256
France	169,087	Germany	641
United Kingdom	88,946	Korea, South	375
Vietnam	85,765	Russia	340
Italy	71,411	Brazil	261
Australia	60,239	United Kingdom	213
Japan	53,609	Norway	179
Botswana	41,576	Italy	170
United States	40,500	France	149
Austria	34,743	Indonesia	118
	966,551		3,702
World	1,891,431	World	5,227
Top ten	51%	Top ten	71%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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Thomas Demas: 704 552 3625 tdemas@trendmacro.com

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

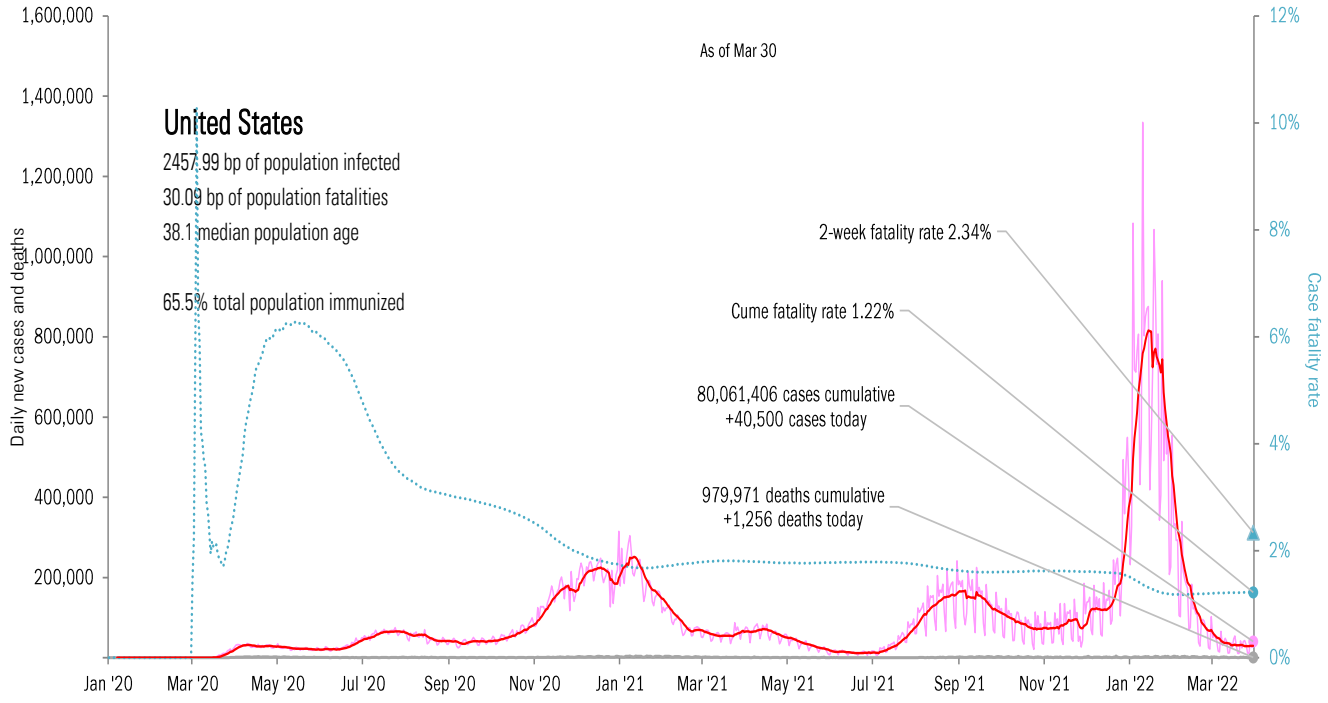
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
GA	9,039	AZ	385	NY	130	CA	9,099,537	CA	88,879	TX	486,820	RI	88%	TX	89%
NY	3,127	CA	121	MT	33	TX	6,735,219	TX	87,355	CA	422,216	MA	82%	NM	88%
CA	2,944	MI	84	GA	64	FL	5,889,174	FL	73,240	FL	413,205	WA	82%	RI	84%
TX	2,453	TN	74	PA	61	NY	4,990,971	NY	67,960	NY	244,737	MN	81%	AL	80%
FL	2,392	KS	71	ME	14	IL	3,066,645	PA	44,260	GA	206,510	DC	81%	AK	79%
MI	1,985	NV	60	NE	12	PA	2,780,481	OH	37,793	OH	190,014	PA	80%	MA	78%
WA	1,521	GA	55	NJ	47	OH	2,669,698	GA	36,923	PA	175,435	WV	80%	KY	78%
CO	1,454	TX	47	CT	19	NC	2,628,287	IL	35,791	IL	156,292	MO	80%	WV	78%
MA	1,415	IA	43	DC	3	GA	2,496,503	MI	35,662	MI	140,504	MD	79%	OK	77%
NJ	1,369	FL	37	KS	22	MI	2,387,521	NJ	33,230	KY	132,501	GA	79%	WA	77%
	27,699		977		405		42,744,036		541,093		2,568,234				
All states	40,500		1,256		1,491	All states	80,061,406		979,971		4,663,605	All states	70%		67%
Top ten	68%		78%		27%	Top ten	53%		55%		55%	Median	75%		71%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-2,972	TX	-216	TX	-79	DE	+10 bp
SC	-1,025	SC	-98	AZ	-35	ID	+10 bp
MN	-623	MO	-75	IL	-29	KS	+10 bp
IL	-262	NE	-49	AR	-26	MD	+10 bp
IN	-245	AL	-42	MO	-23	NJ	+10 bp



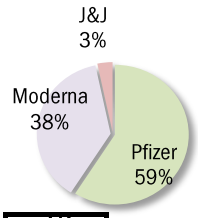
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	575,463,304				+0.120 million
Boosters	98,767,441				+0.050 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	263,096,930	79%	223,800,610	67%	+0.029 million
Age 12 to 17	17,541,202	69%	14,964,273	59%	+0.003 million
Age 18 to 64	177,244,908	87%	150,338,686	74%	+0.017 million
Age 65 and over	58,292,641	100%	50,489,922	92%	+0.003 million

Immunity	Full	Partial
US	65.5%	76.9%
UK	72.4%	77.4%
France	77.8%	80.1%
Spain	85.8%	88.0%
Germany	75.3%	75.9%
Italy	79.2%	84.0%
Australia	82.2%	86.1%
Israel	66.0%	72.1%
Canada	81.8%	85.8%
Japan	79.8%	81.3%
Africa	15.2%	20.5%
India	59.6%	70.8%
Brazil	74.9%	84.6%
China	85.9%	88.3%

Global data differs due to sources, timing



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

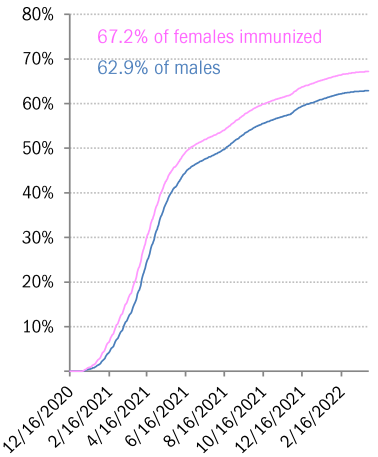
"Immunity" = two doses

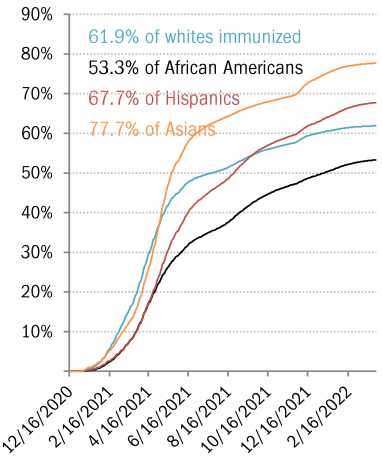
Best
Middle
Worst

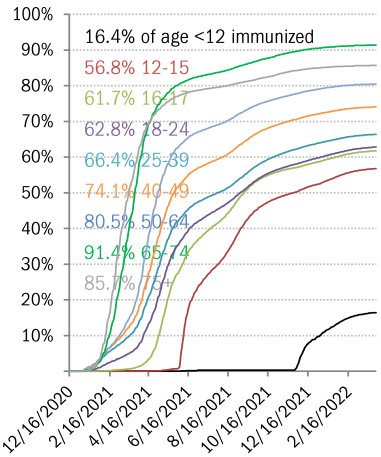
As of Mar 30

					WI					ME
					71.4%					89.5%
					65.1%					78.8%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
80.3%	60.7%	64.8%	64.6%	74.7%	76.4%	66.6%		89.6%	92.8%	88.3%
72.0%	53.6%	56.4%	54.6%	68.7%	68.2%	59.7%		76.2%	80.6%	68.4%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
77.4%	74.6%	58.4%	75.6%	67.6%	61.1%	63.2%	84.0%	89.7%	95.0%	
69.1%	60.2%	51.0%	60.5%	61.5%	54.5%	58.0%	67.6%	74.9%	78.1%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
82.5%	71.6%	78.8%	69.9%	65.8%	65.8%	64.6%	85.0%	85.7%	94.6%	95.0%
71.1%	63.8%	69.7%	63.1%	55.6%	57.0%	57.2%	72.5%	74.9%	78.4%	81.5%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	72.2%	86.7%	74.0%	66.2%	61.7%	83.1%	67.1%	95.0%	82.4%	
	60.9%	70.3%	60.8%	54.0%	54.0%	59.9%	56.5%	72.8%	68.3%	
			OK	LA	MS	AL	GA			
			70.5%	60.7%	59.2%	62.3%	64.9%			
			56.5%	53.2%	51.5%	50.6%	54.2%			
HI			TX					FL		PR
87.0%			72.1%					78.6%		95.0%
77.8%			60.8%					66.4%		82.2%

The demographics of US vaccination



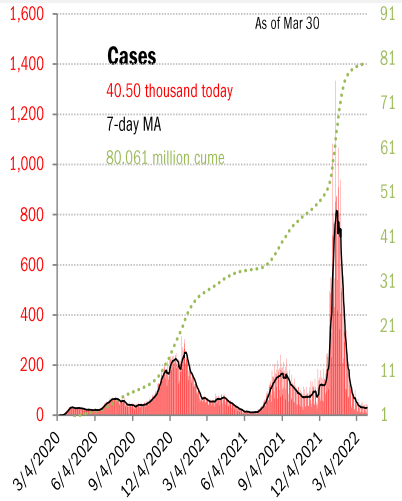


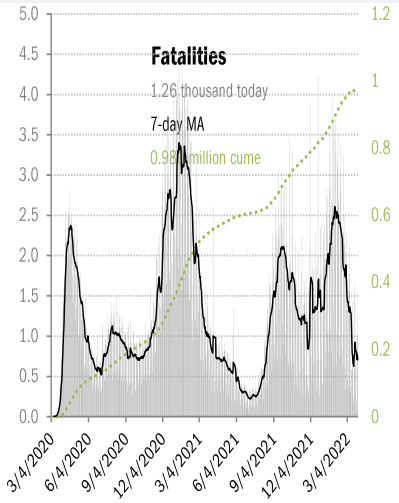


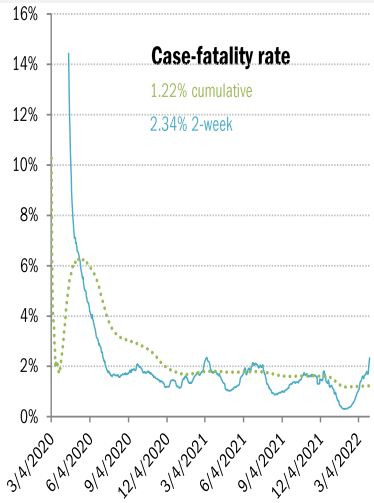
Source: CDC, CDC, Our World in Data, TrendMacro calculations

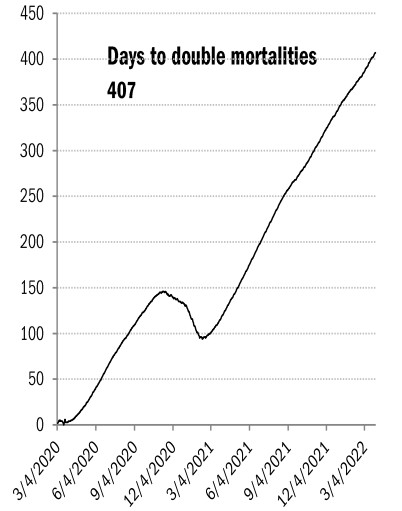
US deep-dive

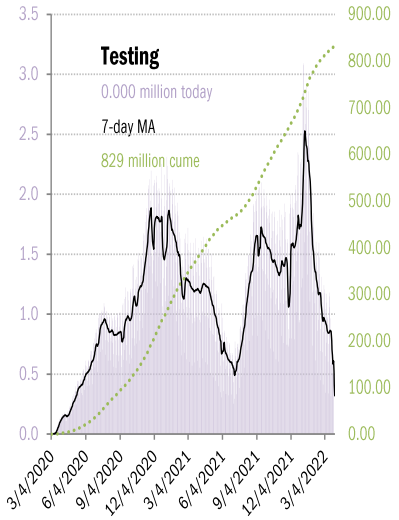
National and state-by-state data do not line up because of different sources

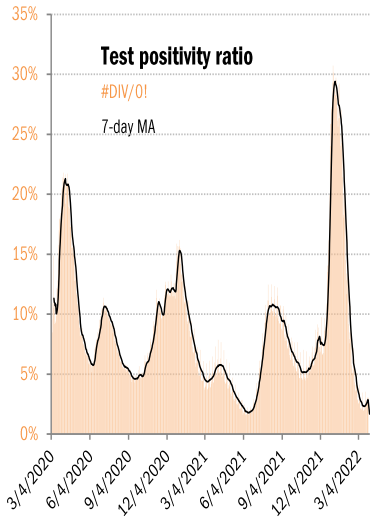


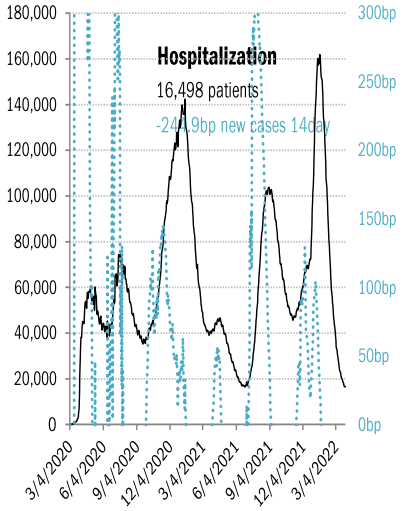


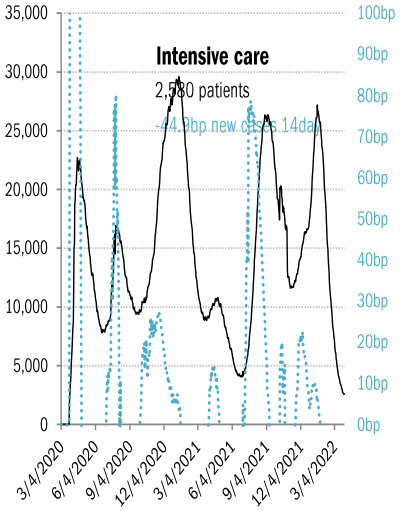


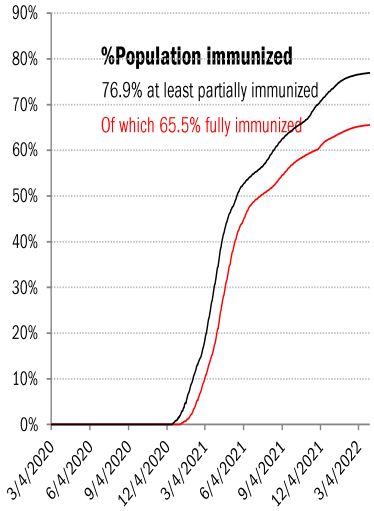












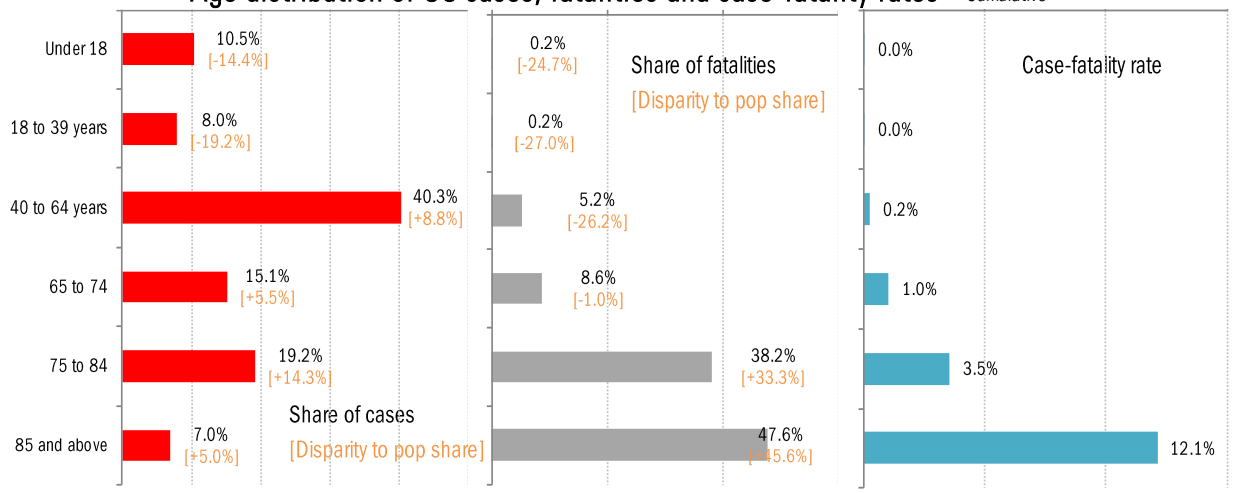
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

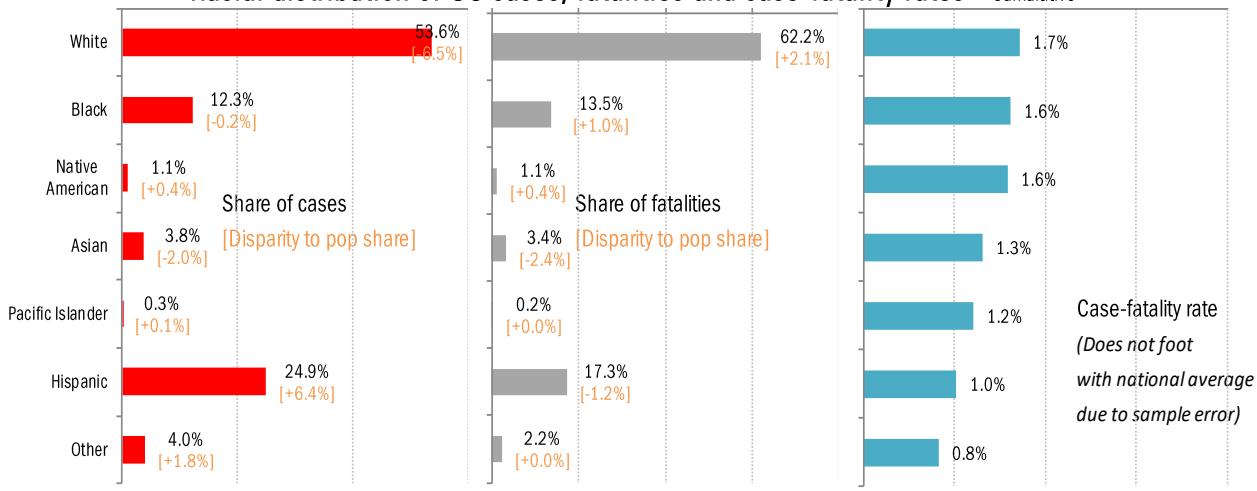
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



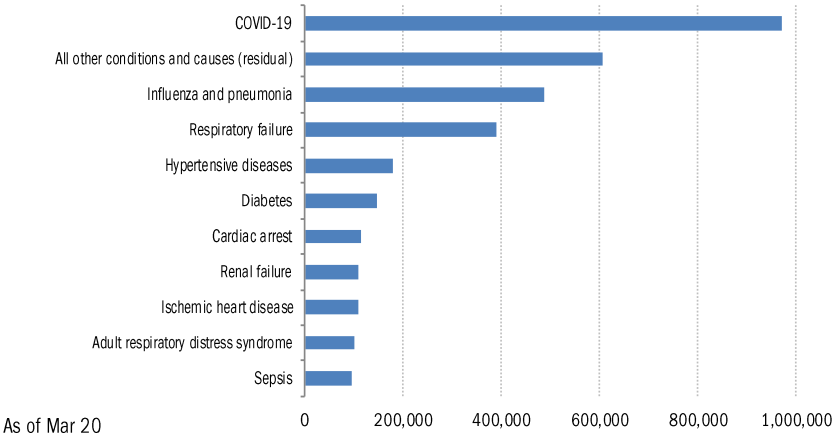
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Mar 20

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

Asia's COVID success stories become the world's worst hot spots
Shin Watanabe, Kotaro Hosokawa and Tomoya Onishi
Nikkei Asia
March 30, 2022

Humoral and cellular immune memory to four COVID-19 vaccines
Zeli Zhang et al.
bioRxiv
March 21, 2022

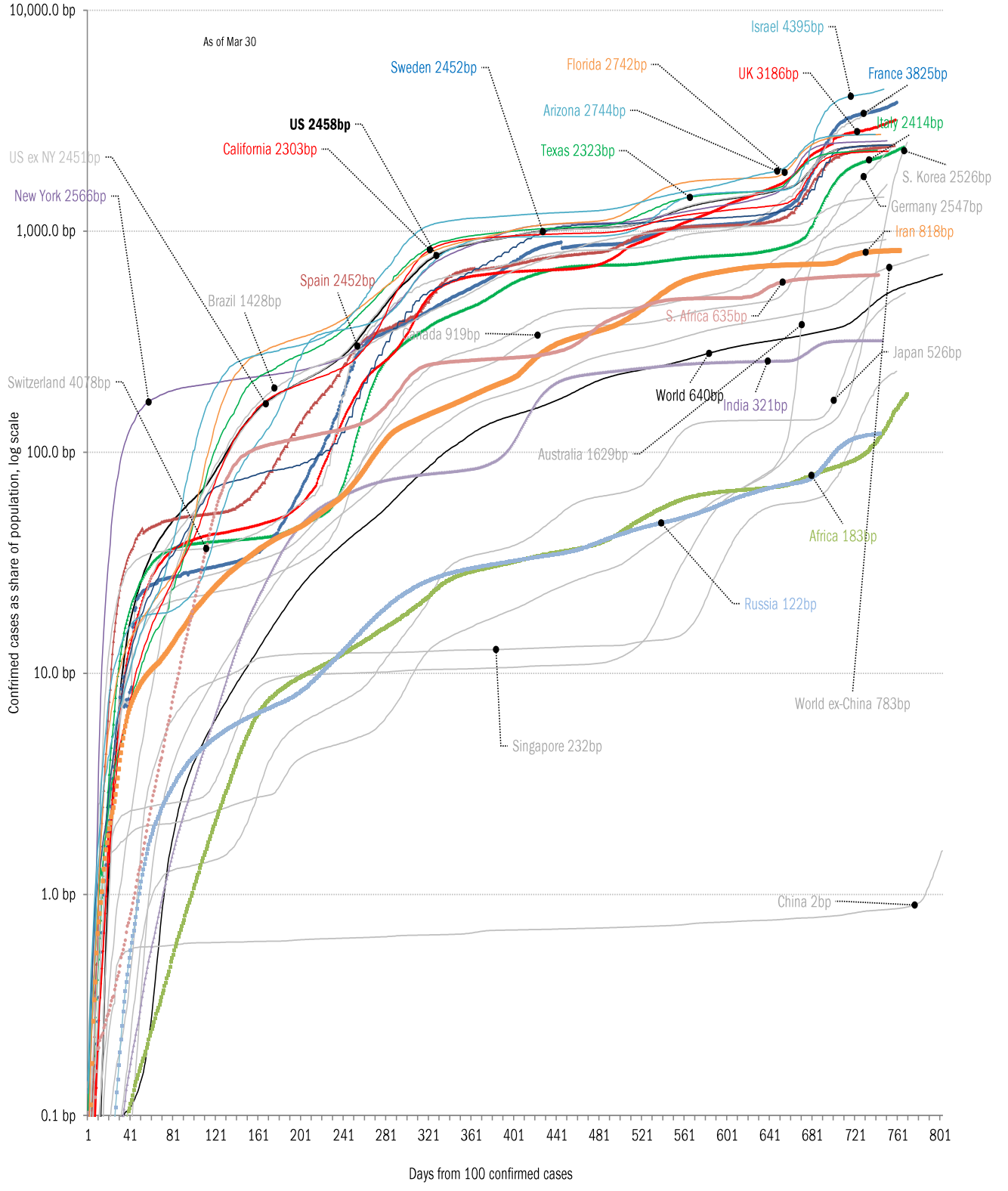
COVID vaccines: head-to-head comparison reveals how they stack up
Emily Waltz
Nature
March 29, 2022

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

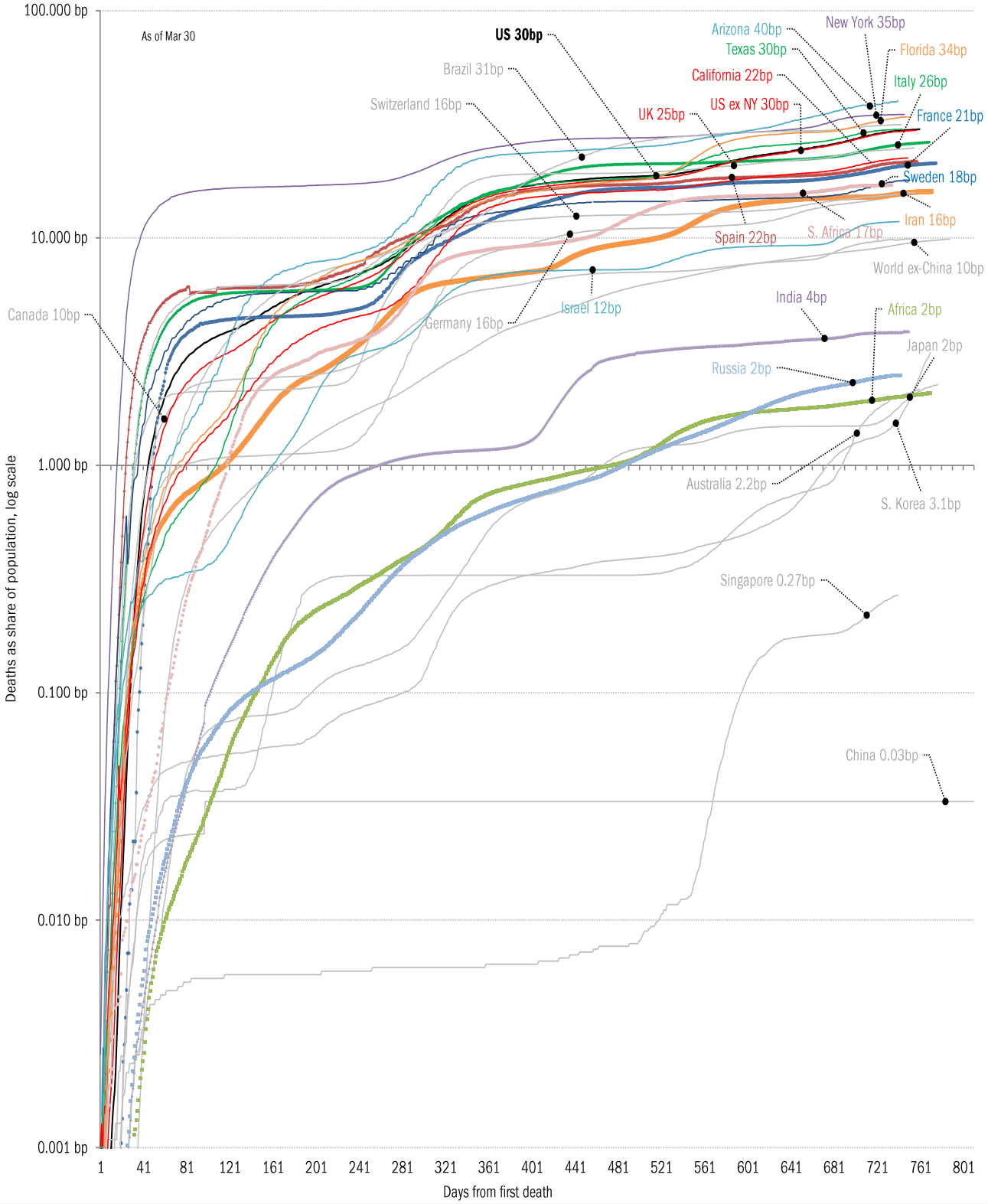
Share of infected population from first day with 100 confirmed cases, log scale



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

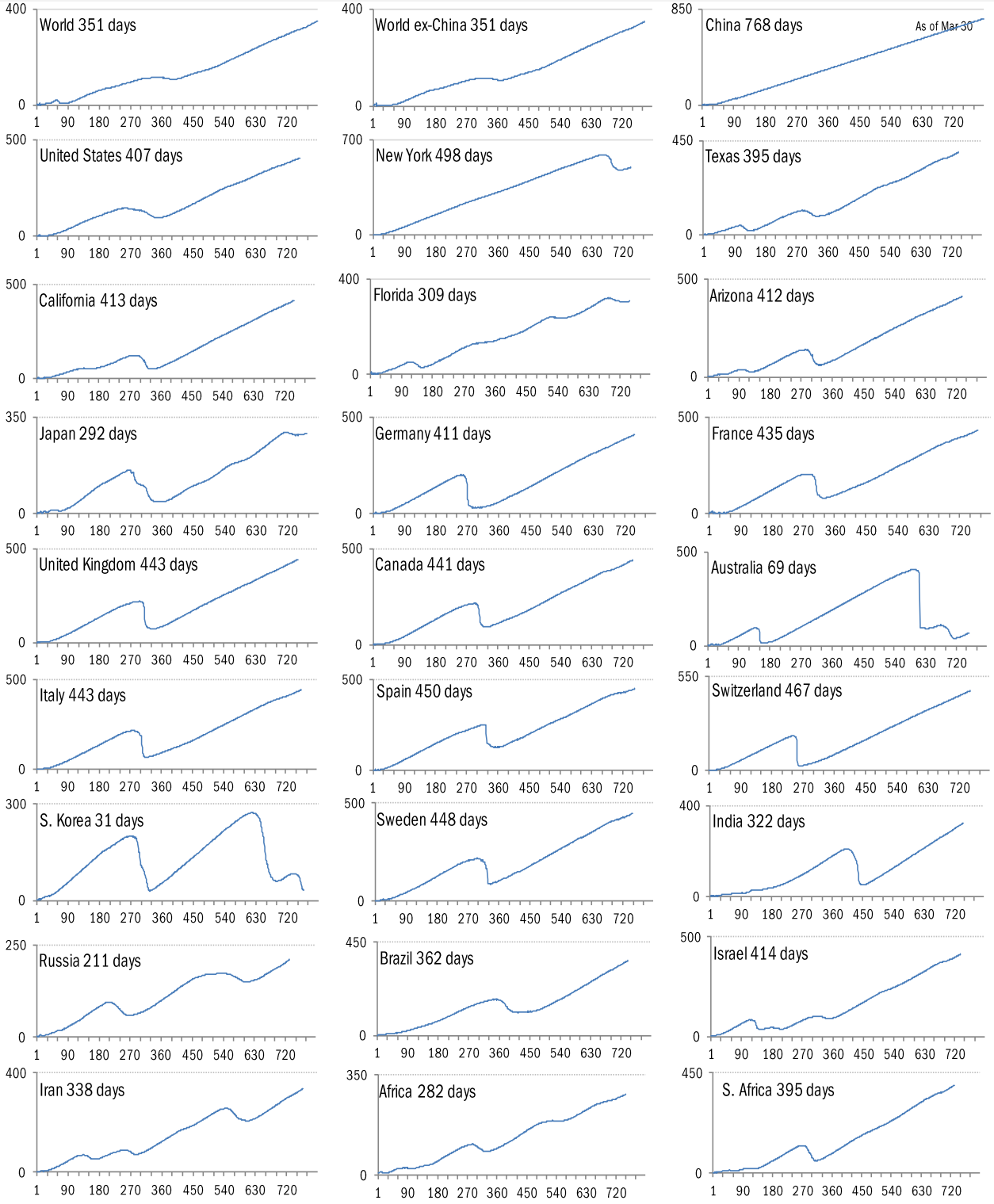


Source: Johns Hopkins, TrendMacro calculations

"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

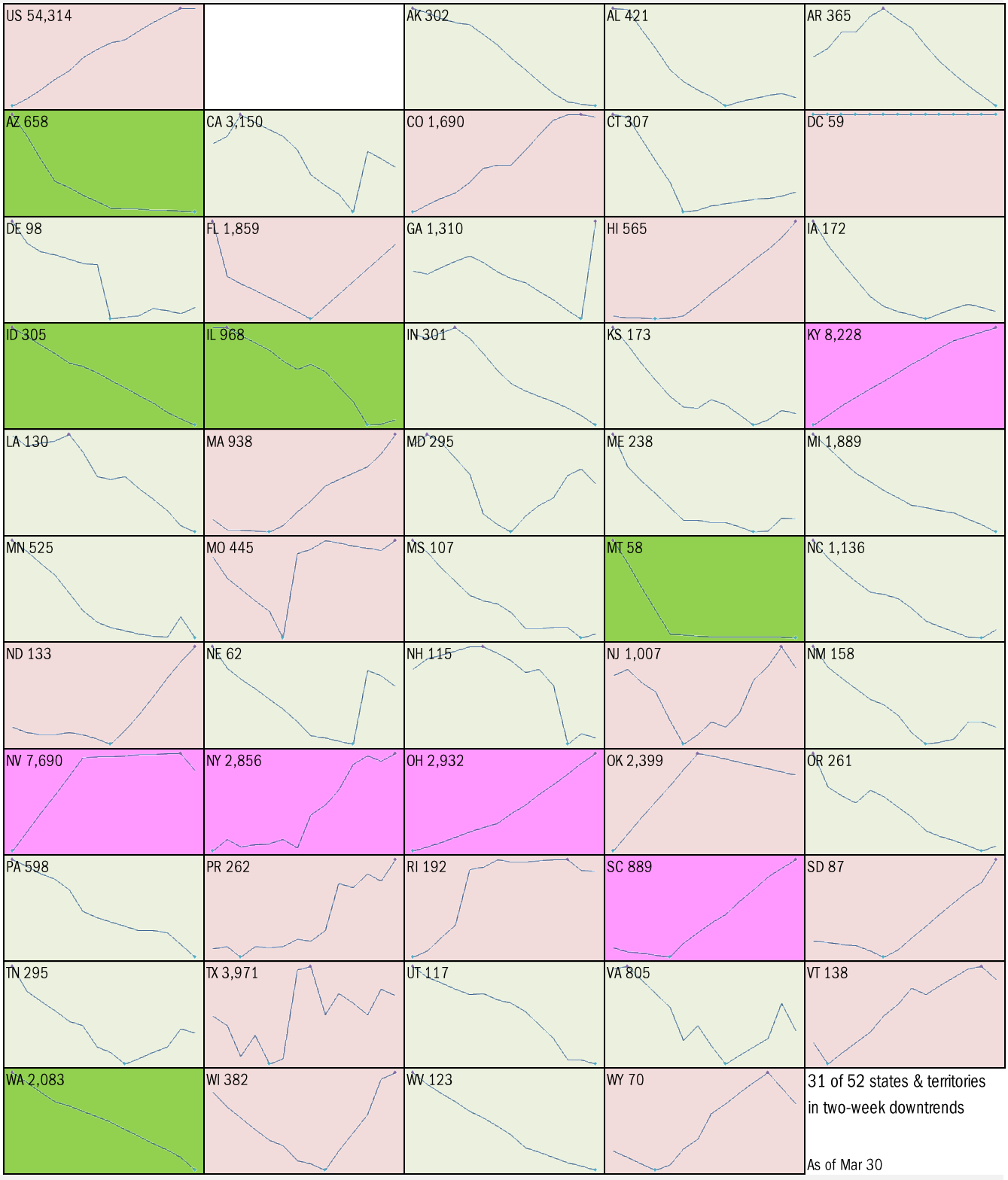


Source: Johns Hopkins, TrendMacro calculations

14-day 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

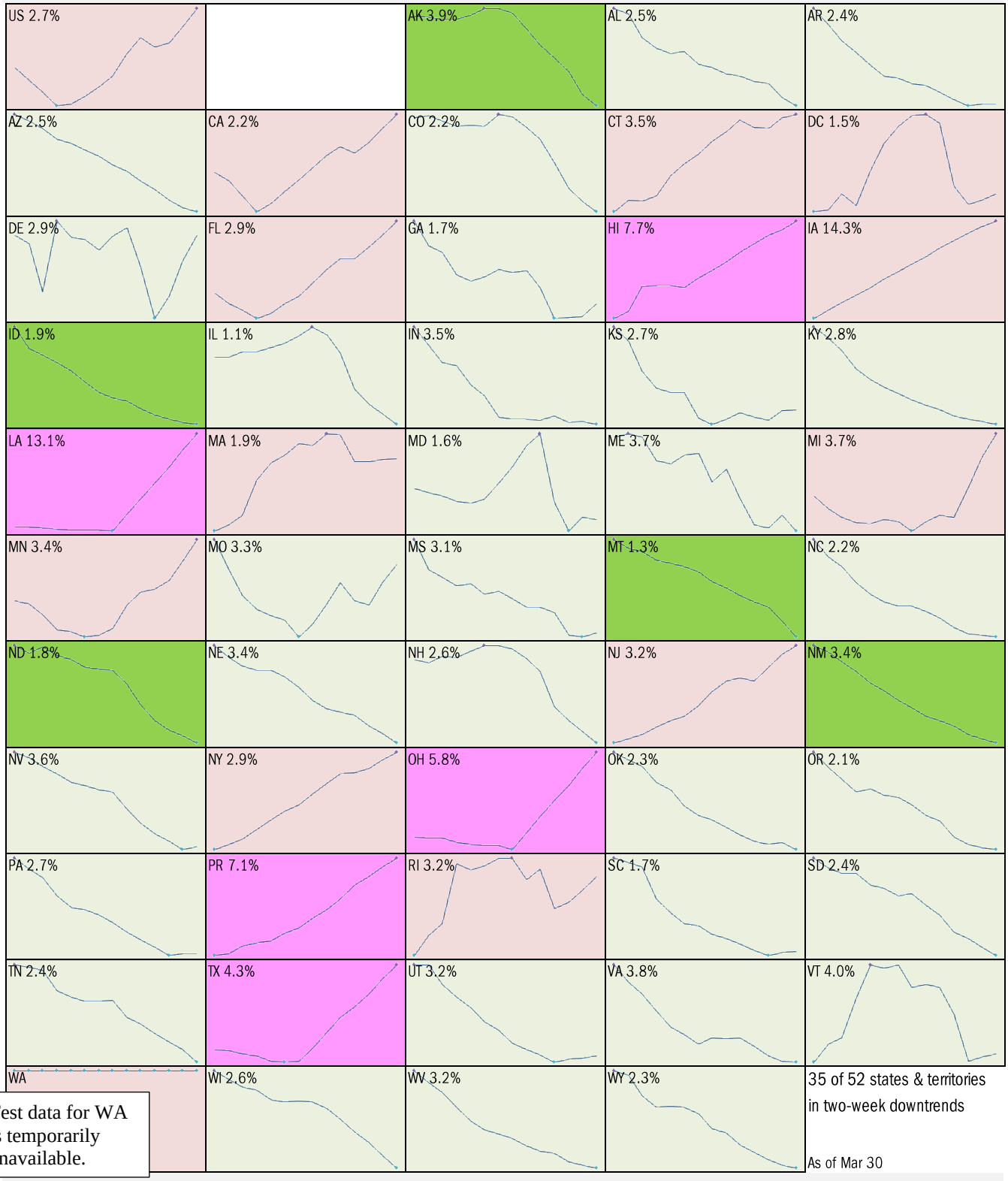


Source: Johns Hopkins, TrendMacro calculations

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

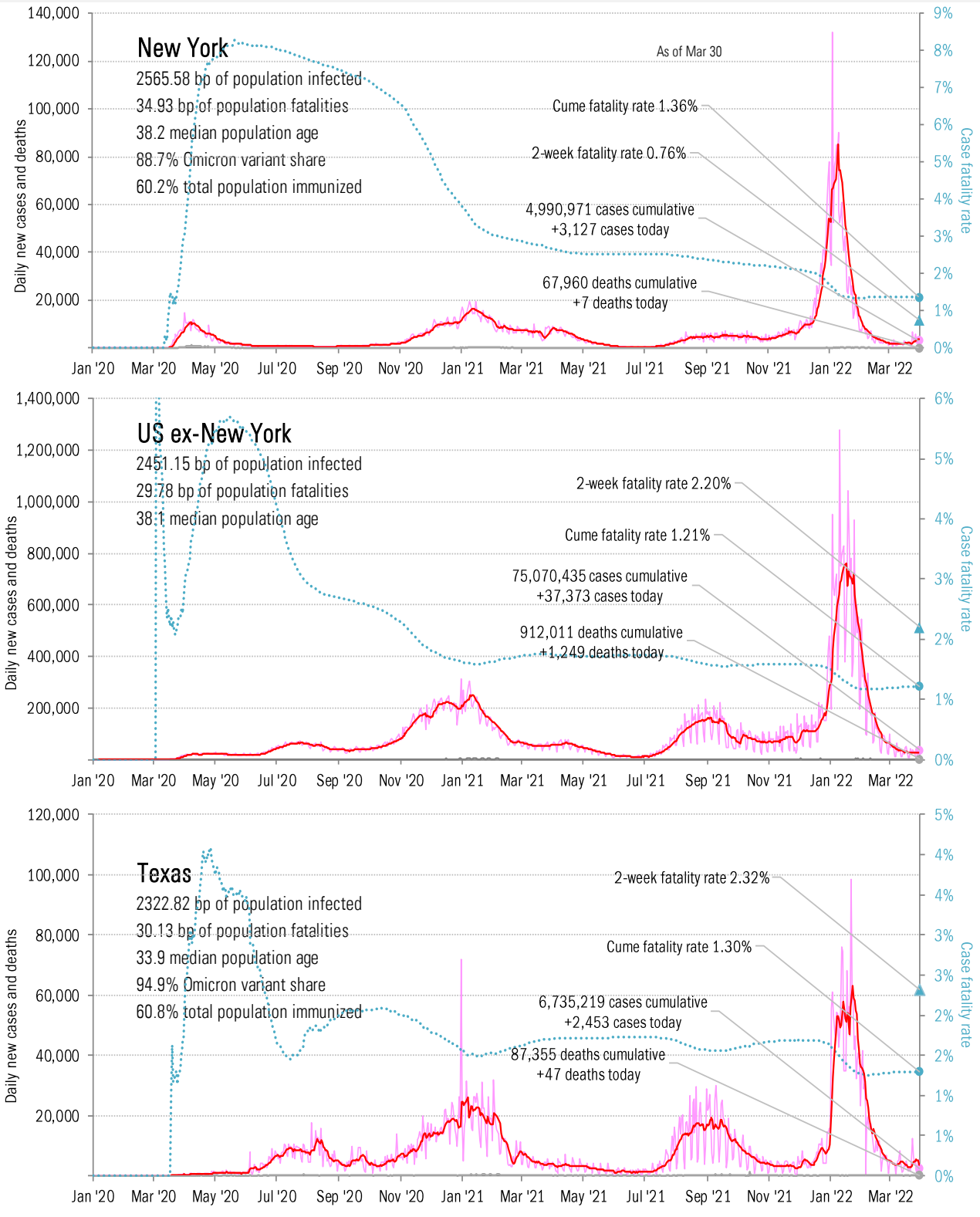


Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

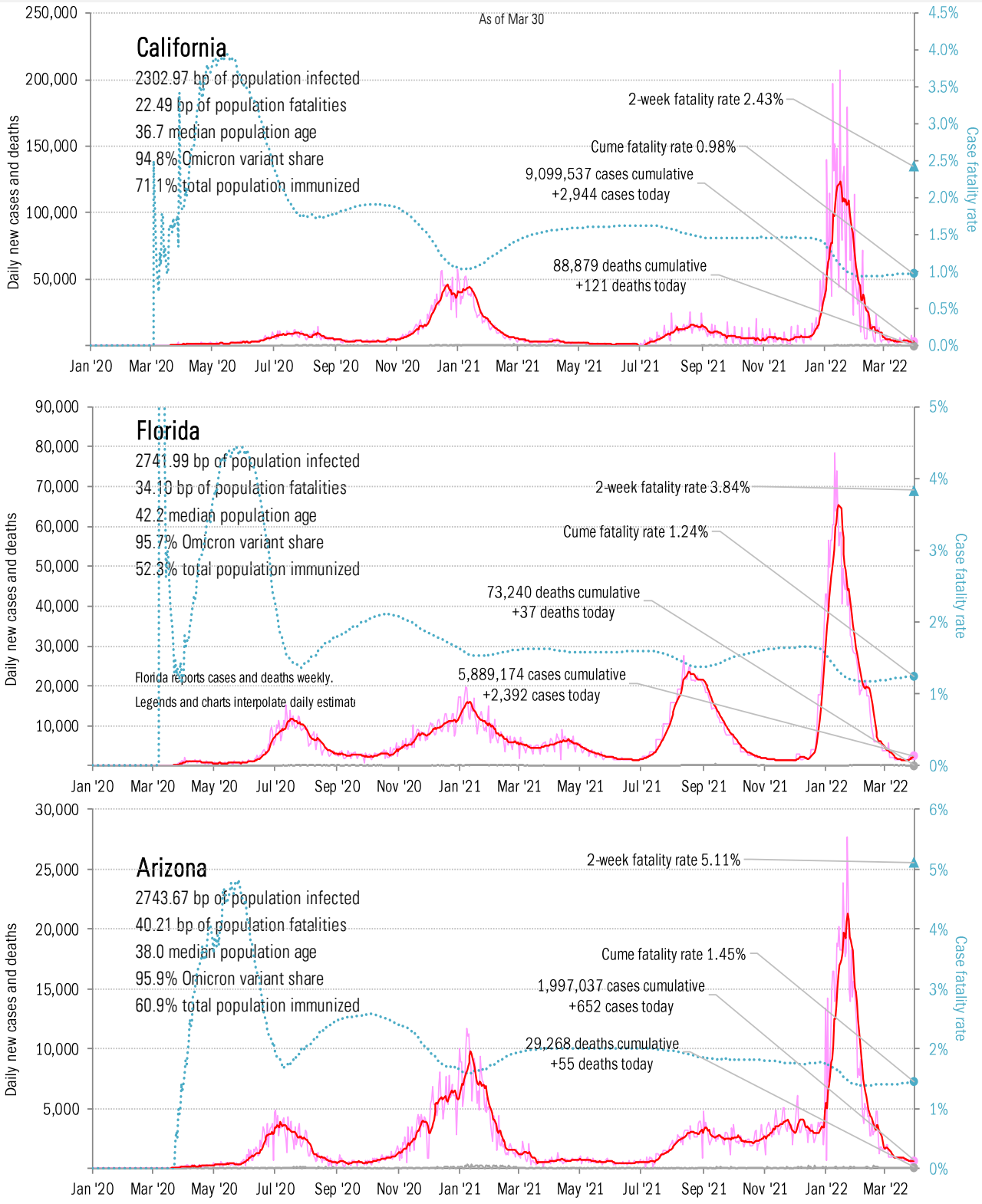
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

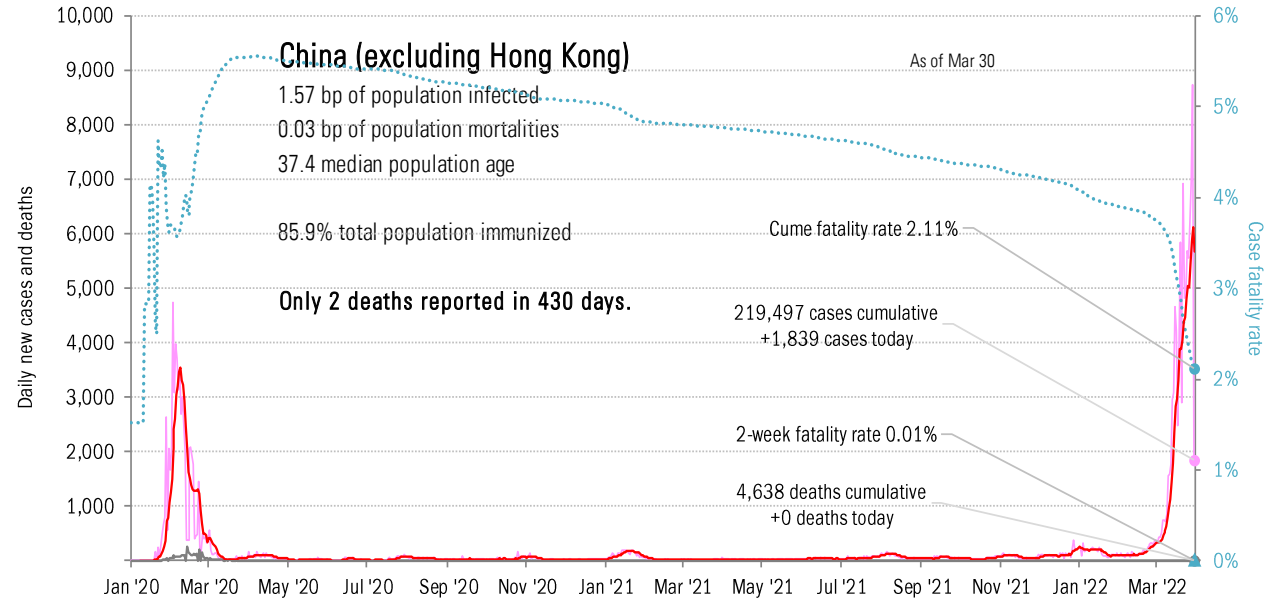
Cases: 7-day average and daily Deaths: Daily

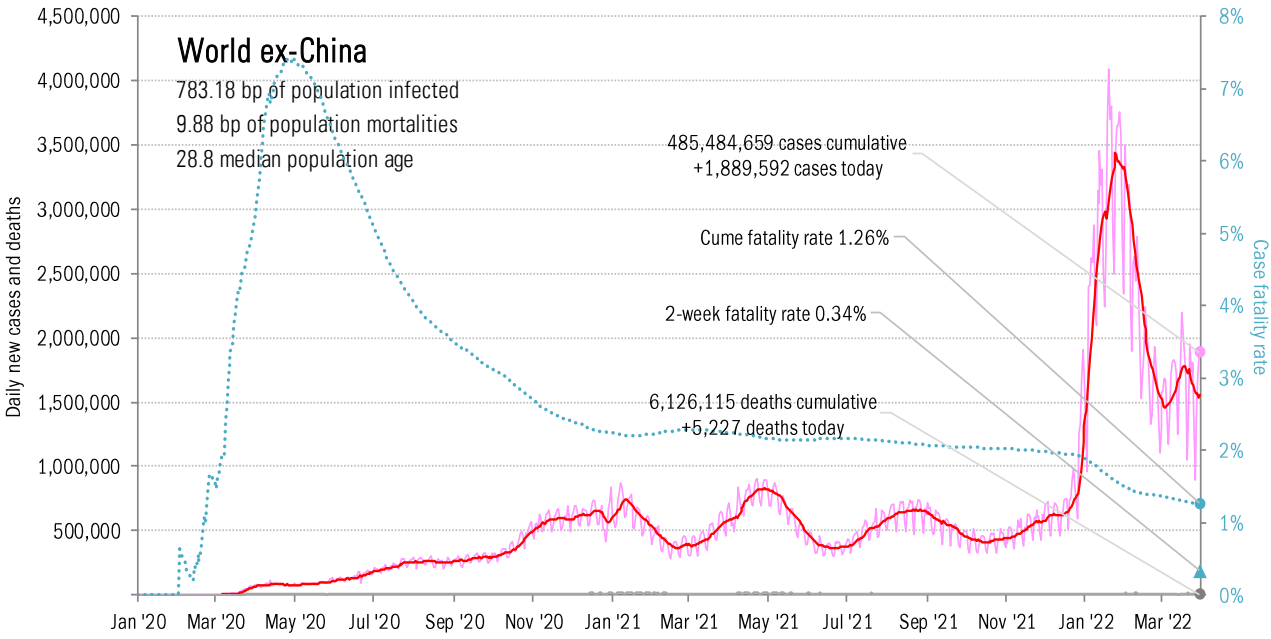


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

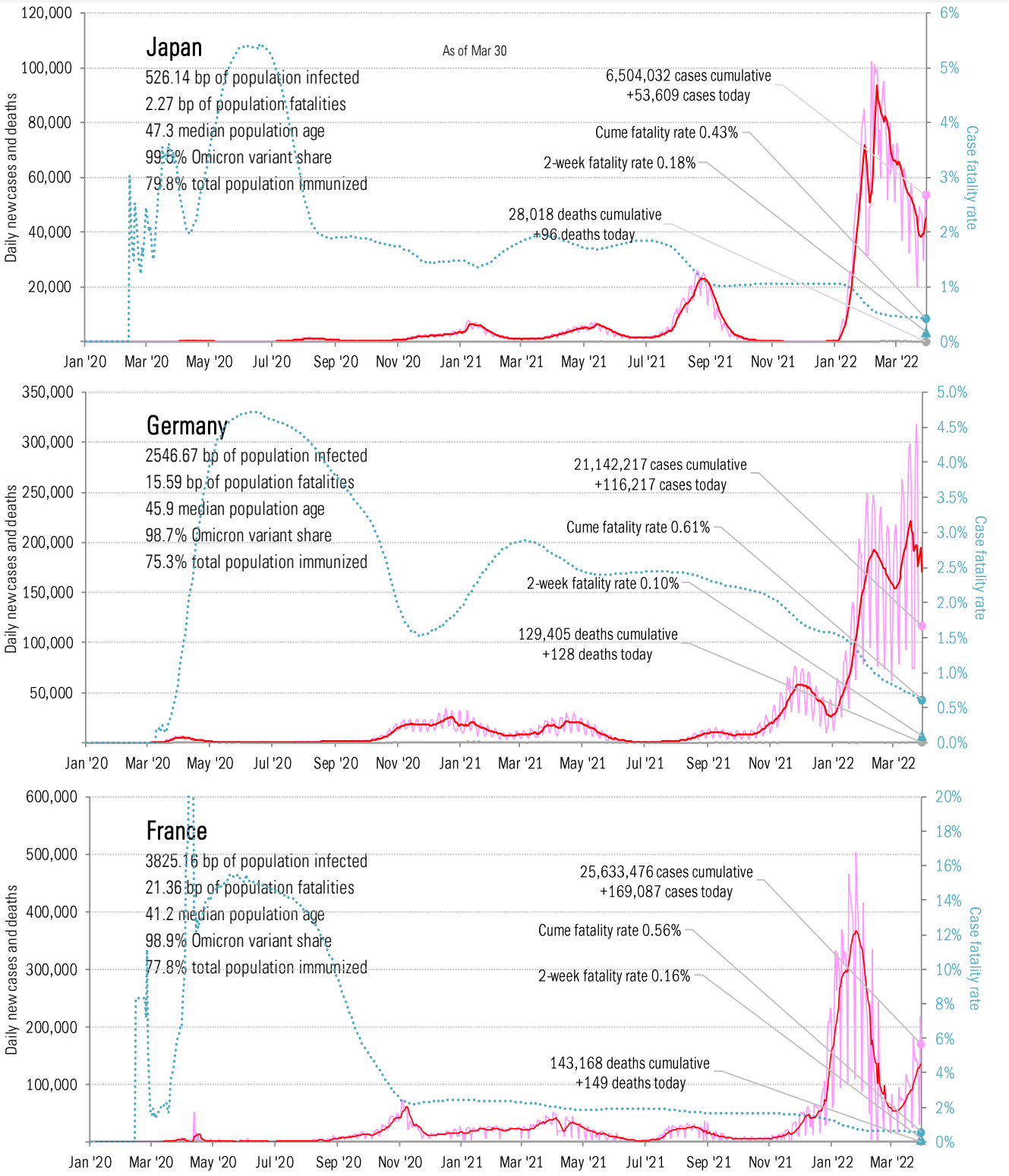




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

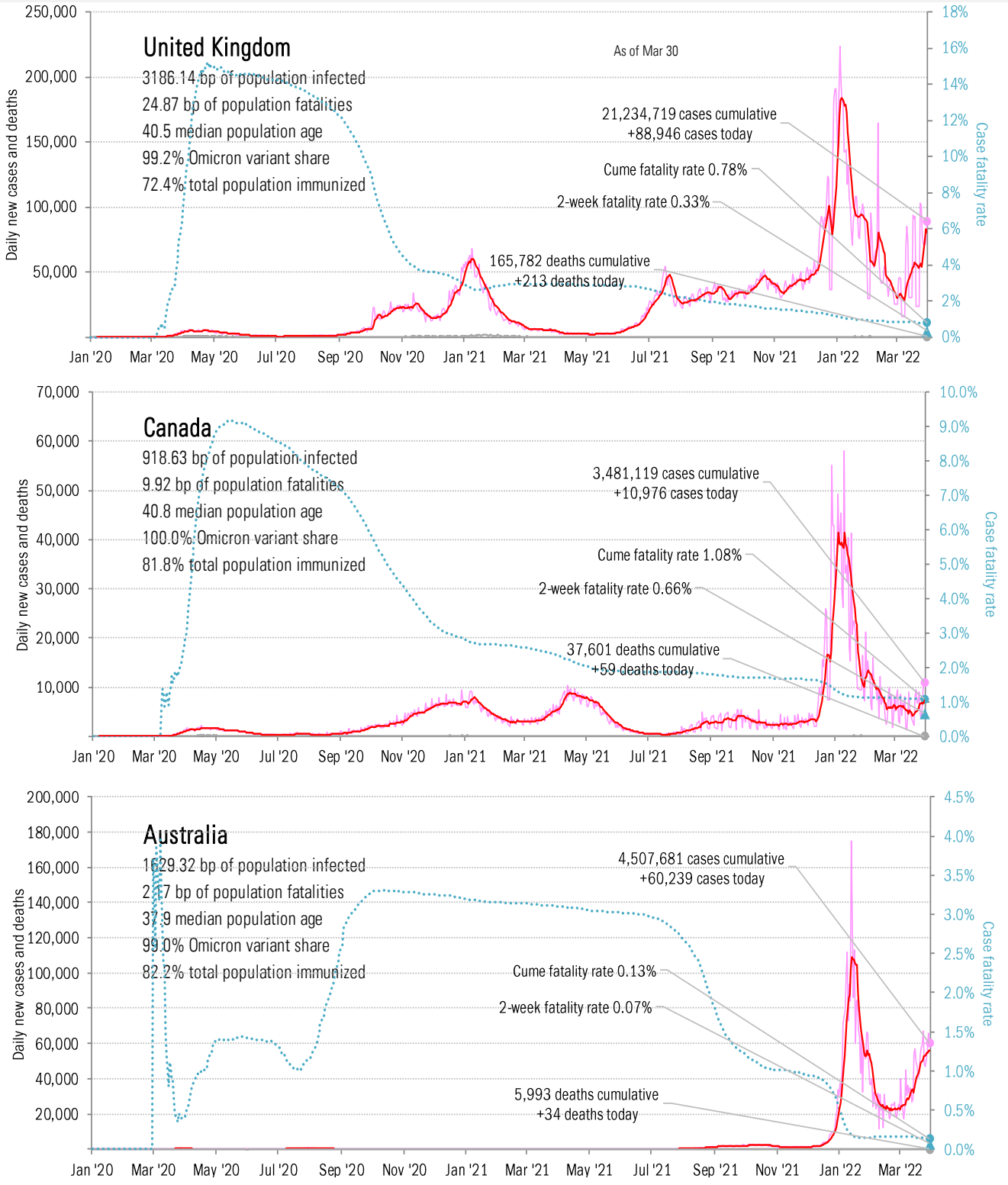
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

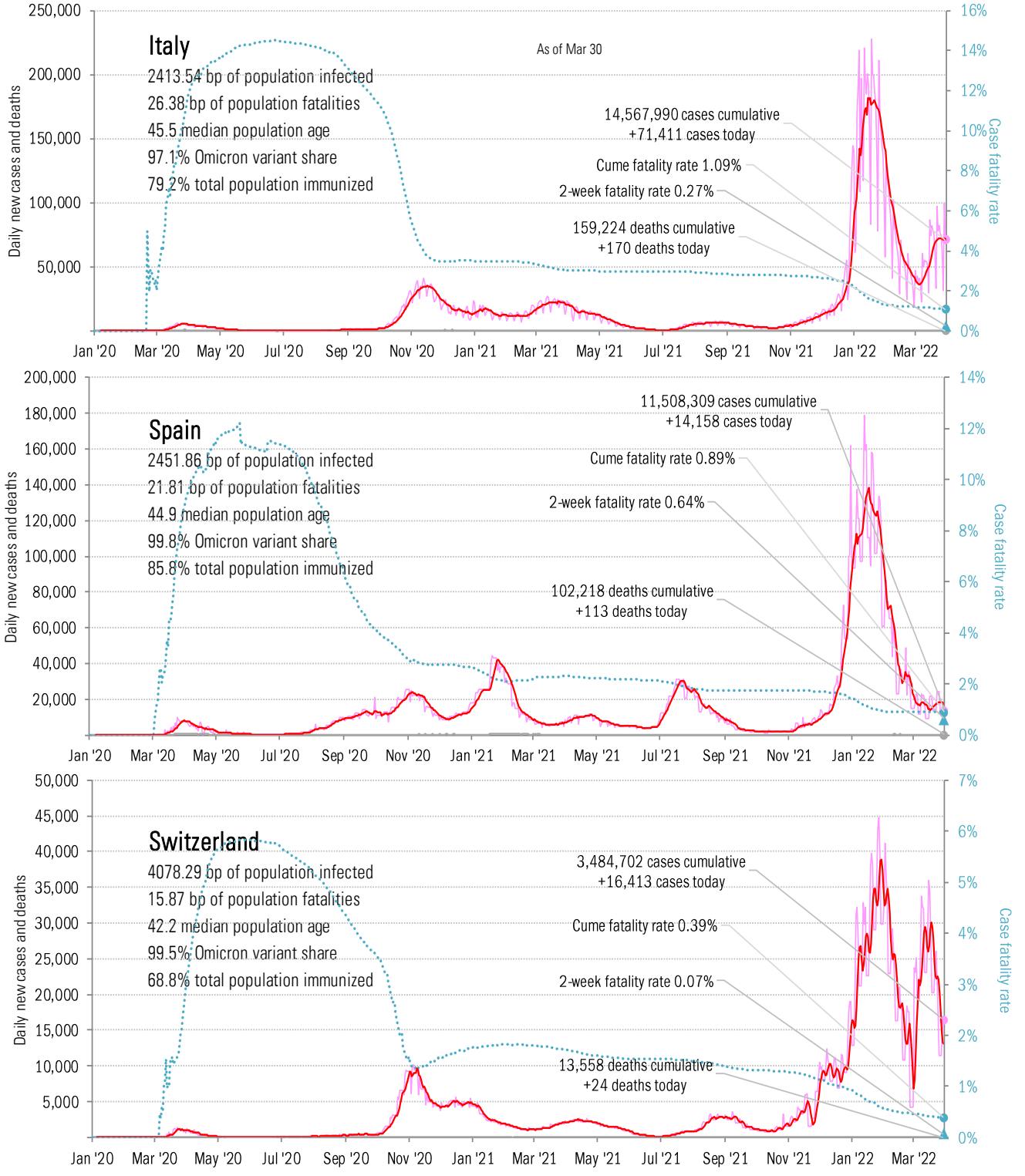
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

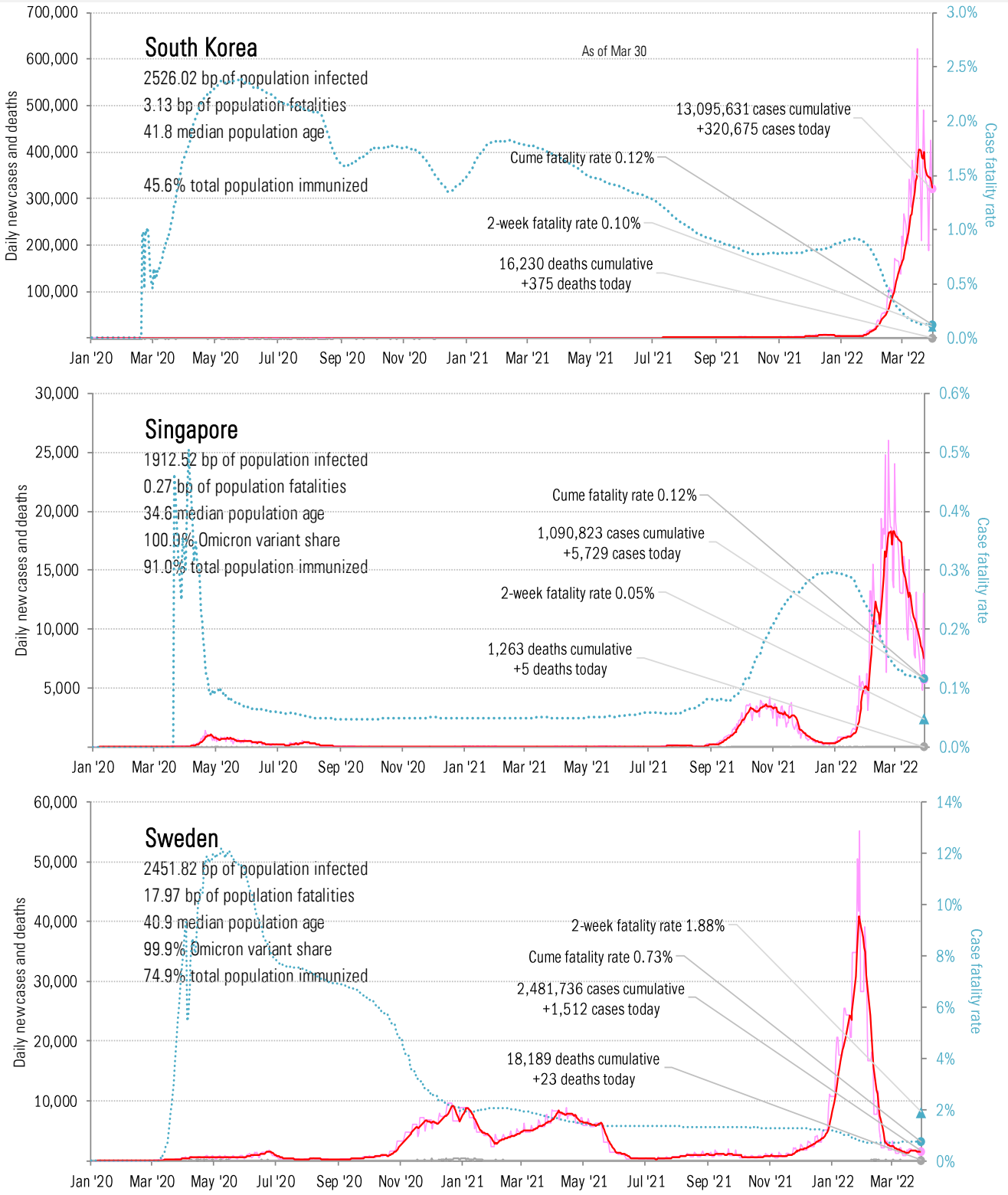
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

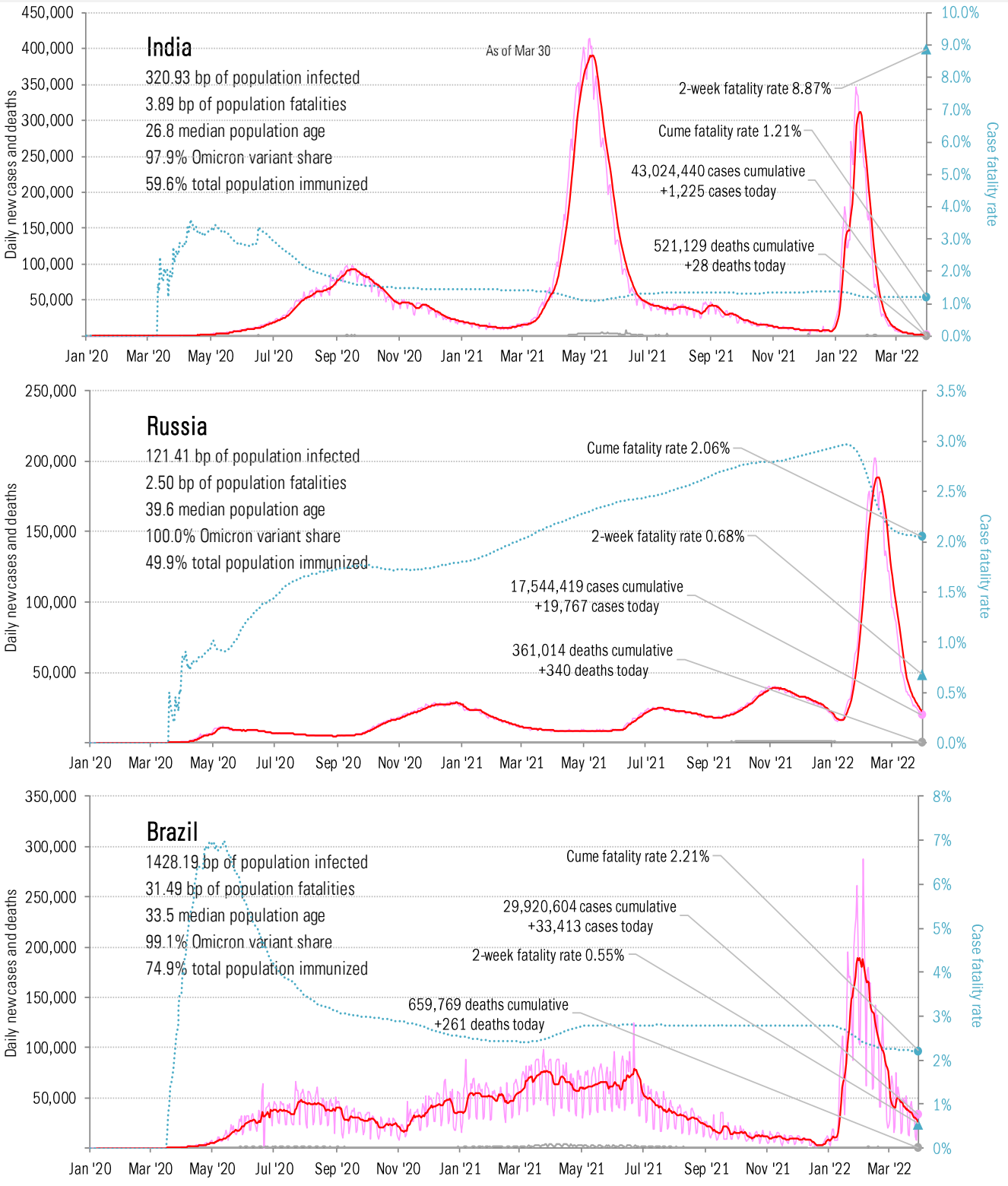
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

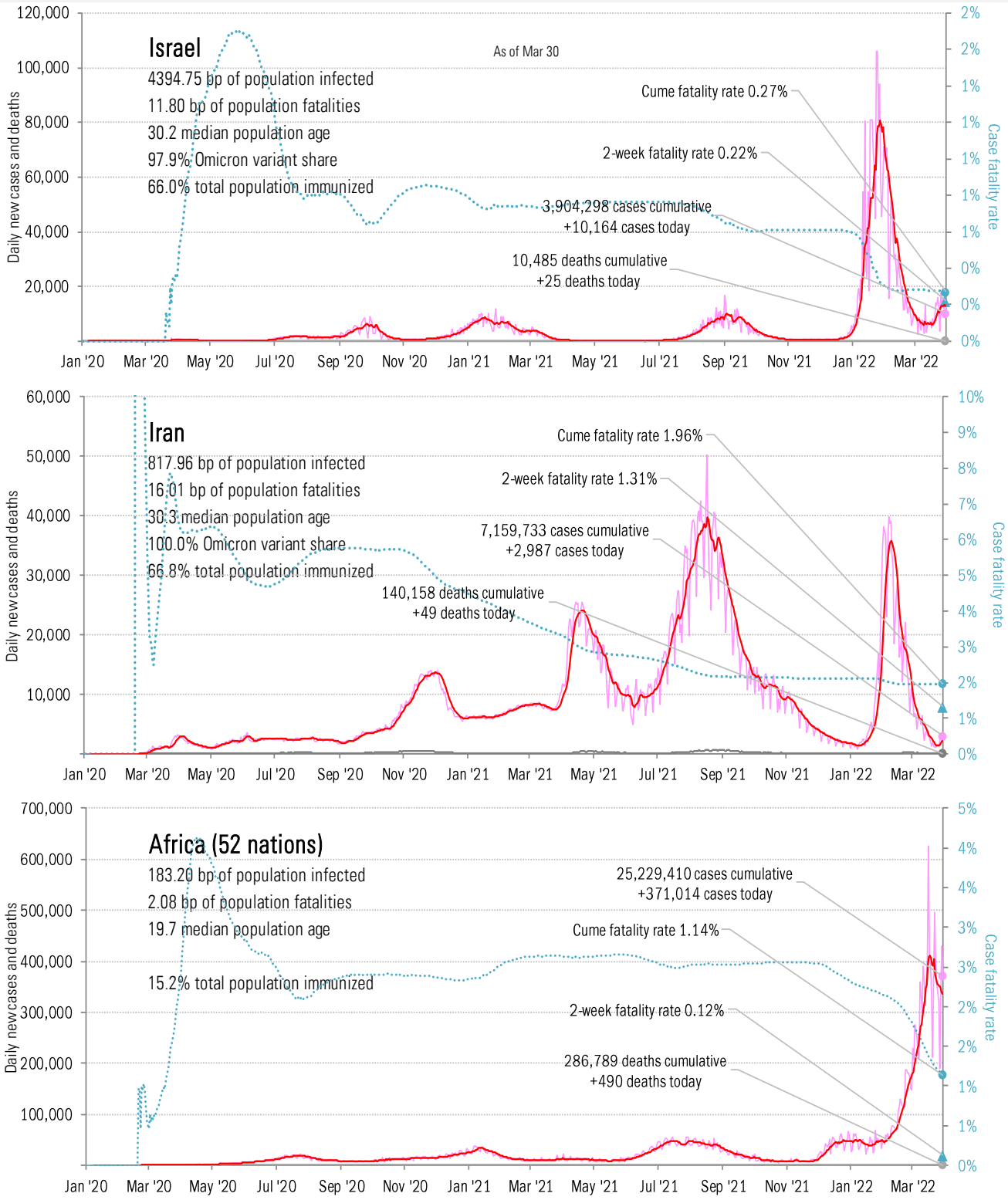
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

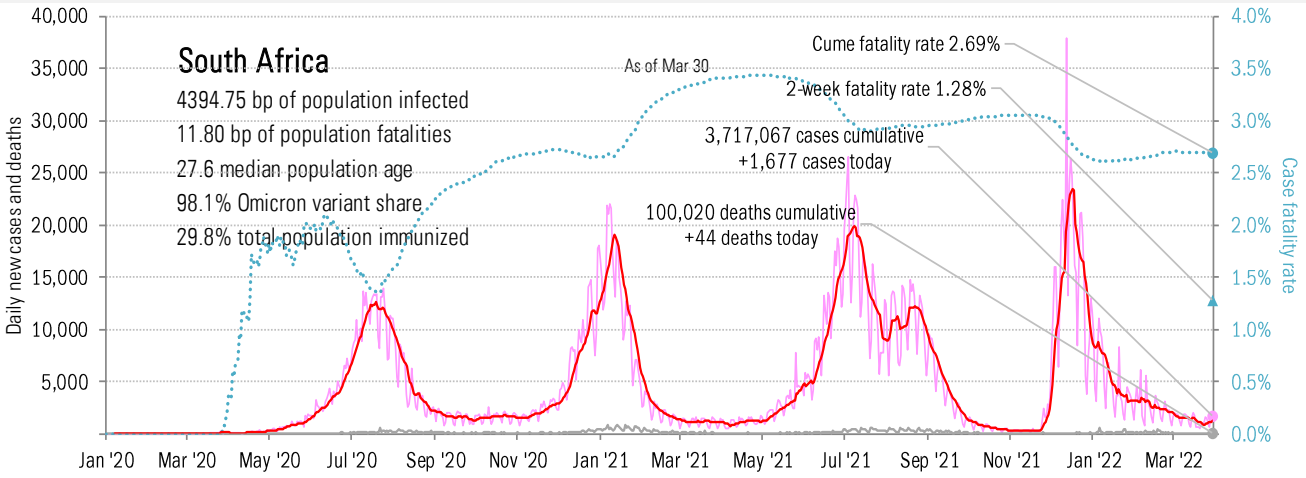
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations