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

Data Insights: Covid-2019 Monitor

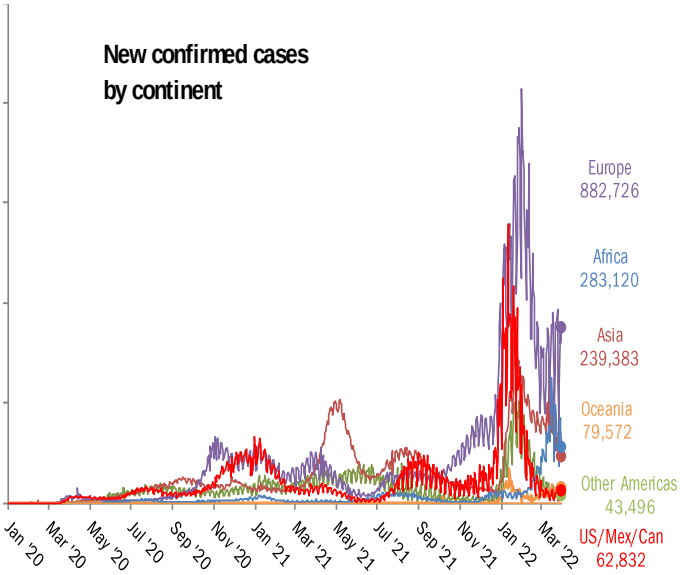
Friday, April 1, 2022

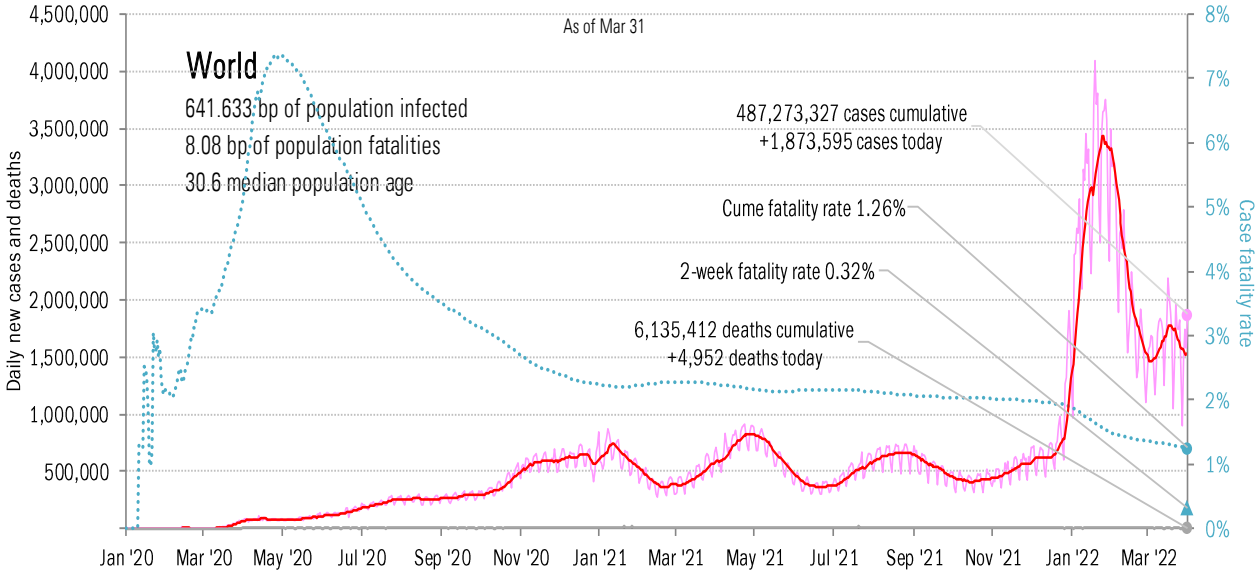
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Germany	354,000	United States	782
Korea, South	280,187	Germany	596
France	169,697	Korea, South	360
Vietnam	92,355	Russia	334
United Kingdom	75,050	Brazil	253
Italy	74,364	United Kingdom	195
Australia	65,385	Sweden	176
Portugal	54,773	Mexico	171
Japan	51,553	Italy	159
United States	48,817	Portugal	150
	1,266,181		3,176
World	1,873,595	World	4,952
Top ten	51%	Top ten	64%





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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

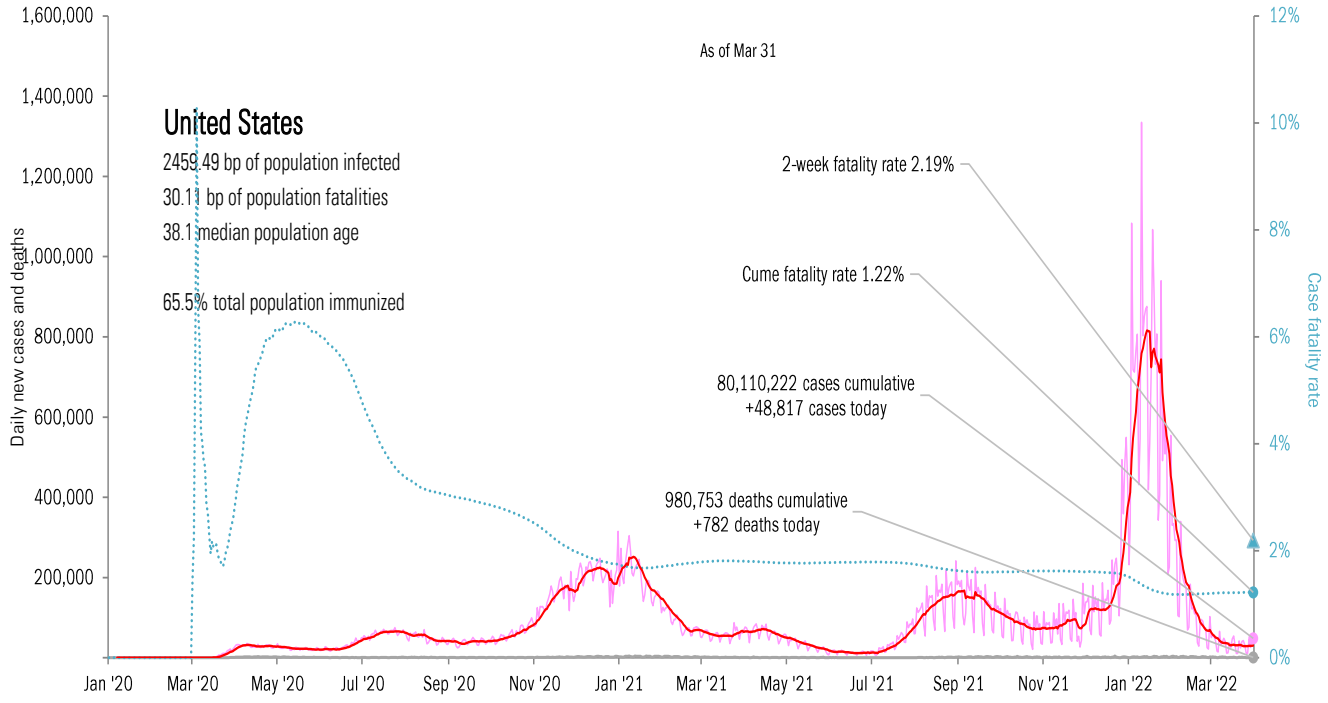
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
AZ	10,143	CH	249	GA	82	CA	9,105,480	CA	88,950	TX	486,959	RI	90%	TX	85%
CA	5,943	OK	137	NY	113	TX	6,738,919	TX	87,393	CA	422,571	MA	85%	DC	84%
NY	4,763	CA	71	OK	24	FL	5,891,565	FL	73,267	FL	413,313	MN	83%	RI	83%
TX	3,700	GA	64	FL	121	NY	4,995,734	NY	67,967	NY	244,845	WA	82%	KY	81%
CH	3,103	TX	38	CO	24	IL	3,068,237	PA	44,275	GA	206,610	WV	82%	NC	81%
GA	2,928	FL	27	HI	9	PA	2,781,353	CH	38,042	CH	190,044	MD	82%	NM	81%
FL	2,392	IL	19	MD	23	CH	2,672,801	GA	36,987	PA	175,476	DC	82%	AK	81%
OK	1,810	NM	19	WI	31	NC	2,629,362	IL	35,810	IL	156,370	MO	82%	WA	79%
MA	1,596	VA	19	IL	62	GA	2,499,431	MI	35,662	MI	140,564	GA	82%	AL	79%
IL	1,592	MN	17	MS	10	MI	2,387,521	NJ	33,232	KY	132,762	PA	81%	UT	78%
	37,970		660		499		42,770,403		541,585		2,569,514				
All states	48,817		782		1,426	All states	80,110,222		980,753		4,665,460	All states	70%		67%
Top ten	78%		84%		35%	Top ten	53%		55%		55%	Median	75%		74%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
GA	-6,111	AZ	-385	TX	-61	DE	+10 bp
MI	-1,985	MI	-84	CA	-30	ID	+10 bp
FL	-1,778	FL	-77	WV	-24	KS	+10 bp
WA	-1,521	TN	-74	VA	-17	MD	+10 bp
HI	-1,187	KS	-71	AZ	-15	NJ	+10 bp



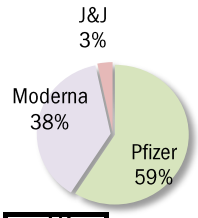
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	575,872,459				+0.205 million
Boosters	98,947,925				+0.090 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	263,205,082	79%	223,884,786	67%	+0.042 million
Age 12 to 17	17,550,473	69%	14,972,580	59%	+0.004 million
Age 18 to 64	177,312,673	87%	150,385,767	74%	+0.024 million
Age 65 and over	58,306,798	100%	50,500,064	92%	+0.005 million

Immunity	Full	Partial
US	65.5%	76.9%
UK	72.5%	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	79.9%	81.3%
Africa	15.2%	20.5%
India	59.6%	70.8%
Brazil	75.0%	84.7%
China	85.9%	88.3%

Global data differs due to sources, timing



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

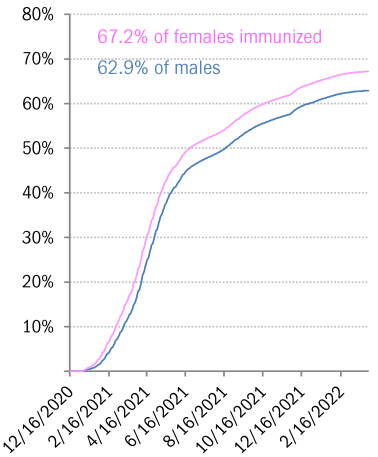
"Immunity" = two doses

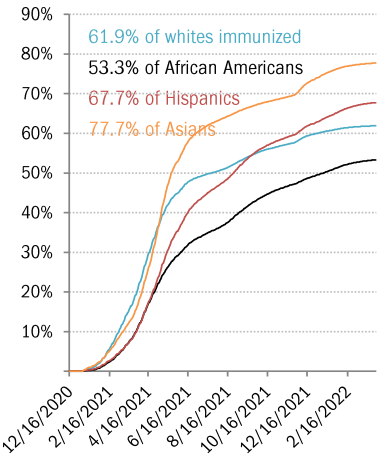
Best
Middle
Worst

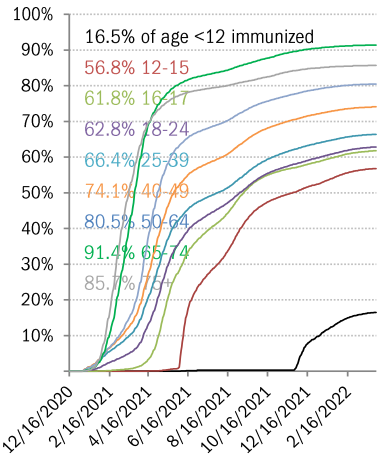
As of Mar 31

					WI					ME
					71.4%					89.5%
					65.1%					78.8%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
80.3%	60.7%	64.9%	64.7%	74.7%	76.5%	66.6%		89.6%	93.0%	90.1%
72.1%	53.6%	56.4%	54.6%	68.7%	68.2%	59.8%		76.2%	80.6%	69.3%
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%	
69.2%	60.2%	51.1%	60.5%	61.5%	54.5%	58.0%	67.6%	74.9%	78.2%	
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%	85.8%	94.6%	95.0%
71.1%	63.8%	69.8%	63.1%	55.6%	57.0%	57.2%	72.5%	74.9%	78.4%	81.6%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	72.3%	86.8%	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%			
			56.6%	53.2%	51.5%	50.7%	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



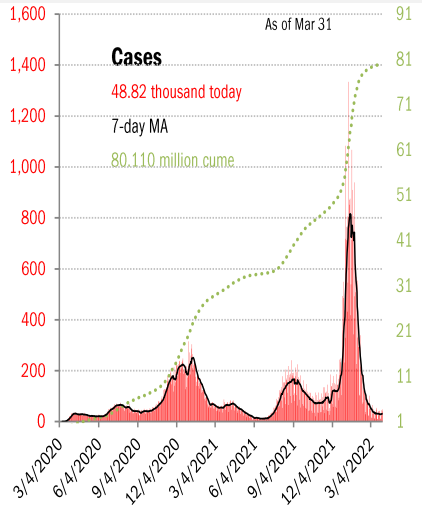


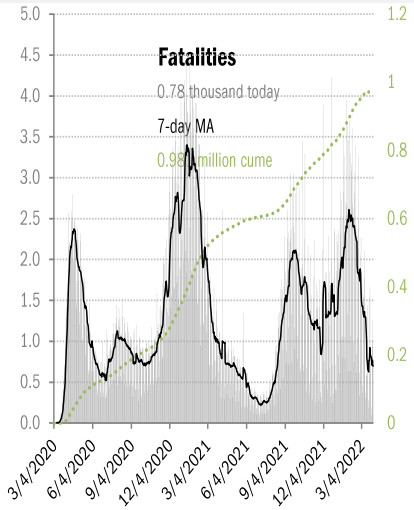


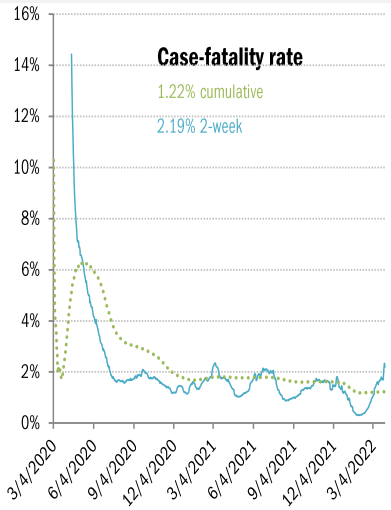
Source: CDC, CDC, Our World in Data, TrendMacro calculations

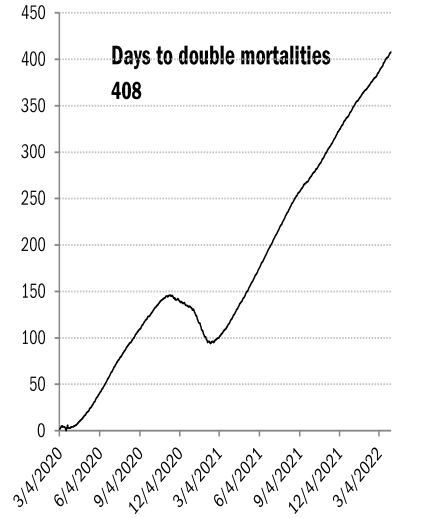
US deep-dive

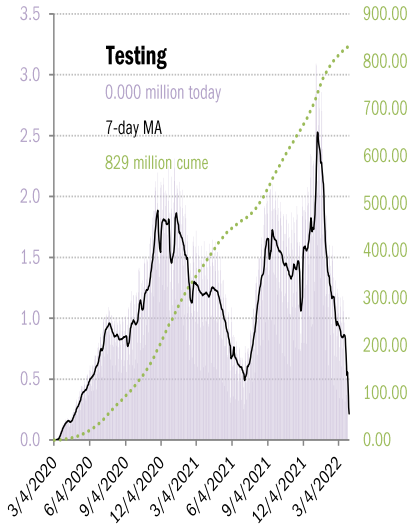
National and state-by-state data do not line up because of different sources

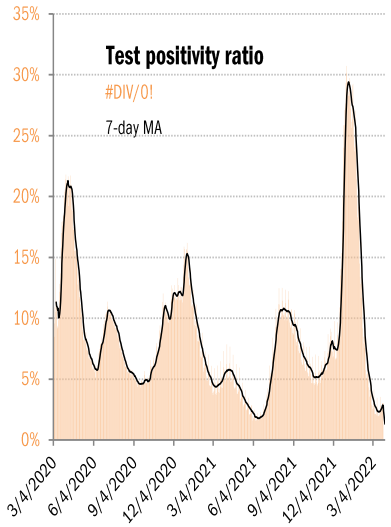


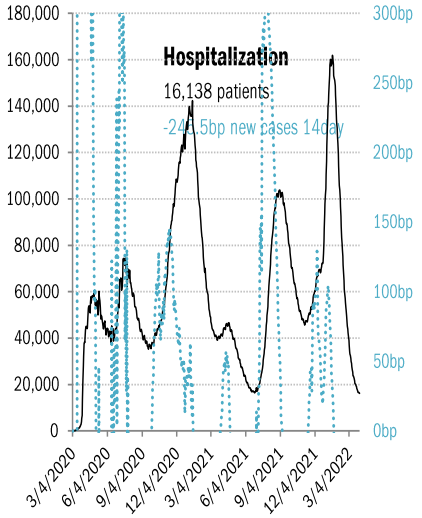


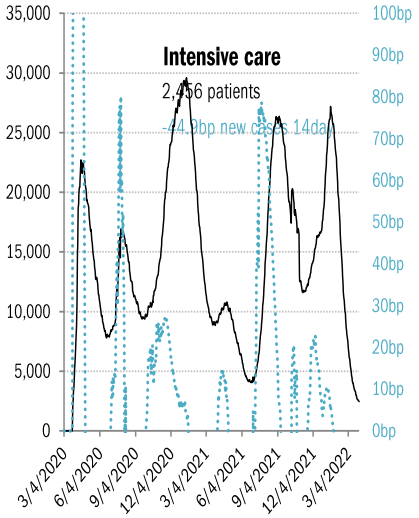


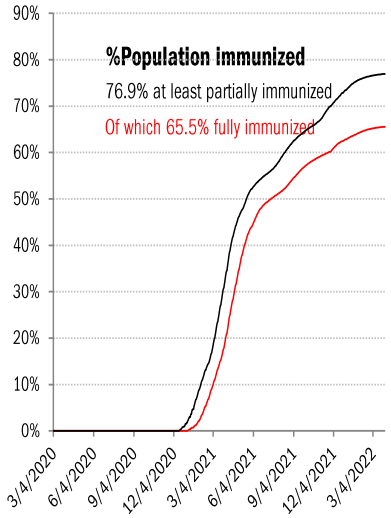












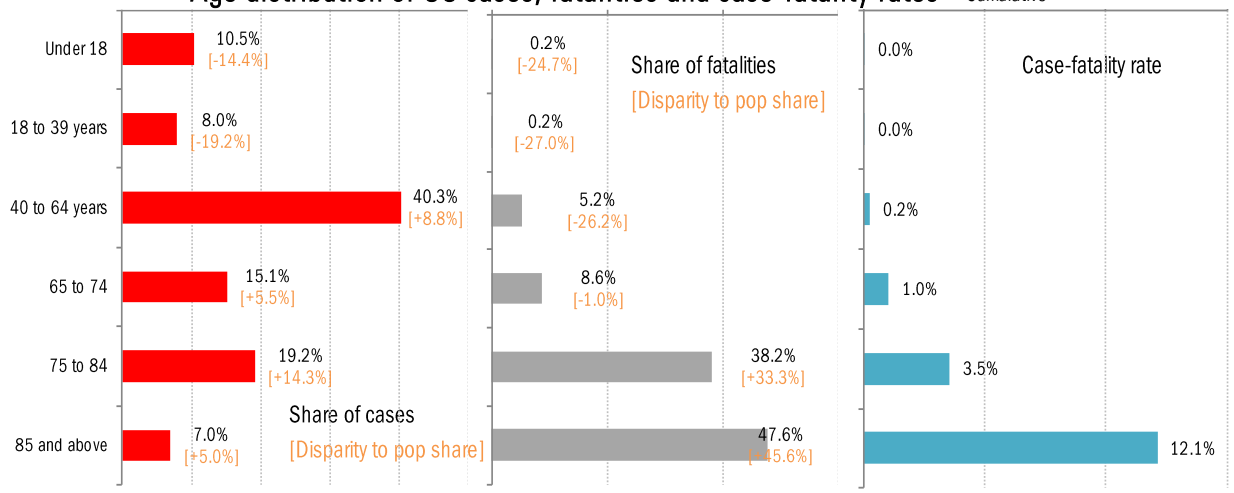
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

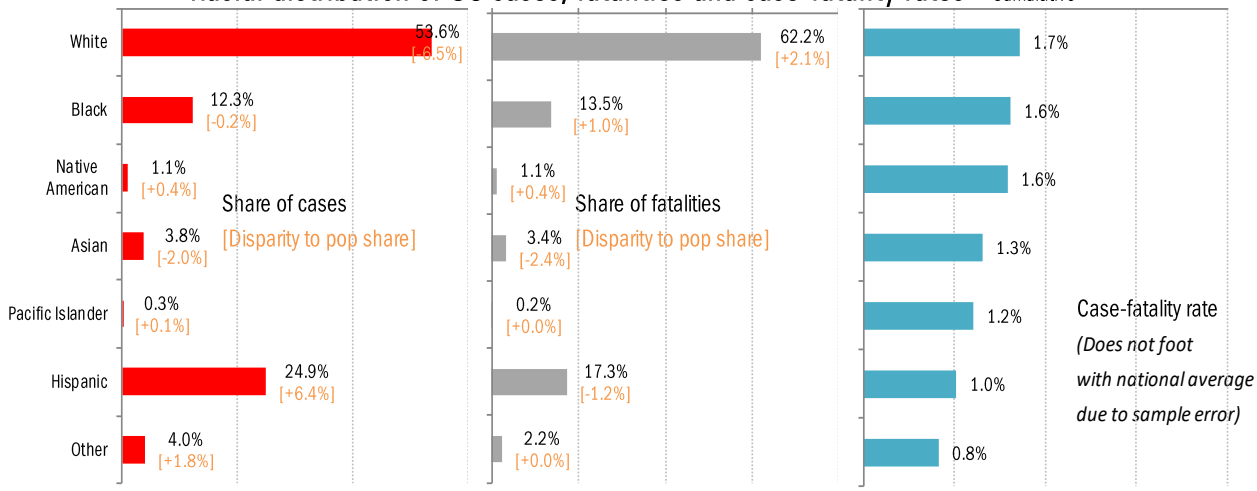
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



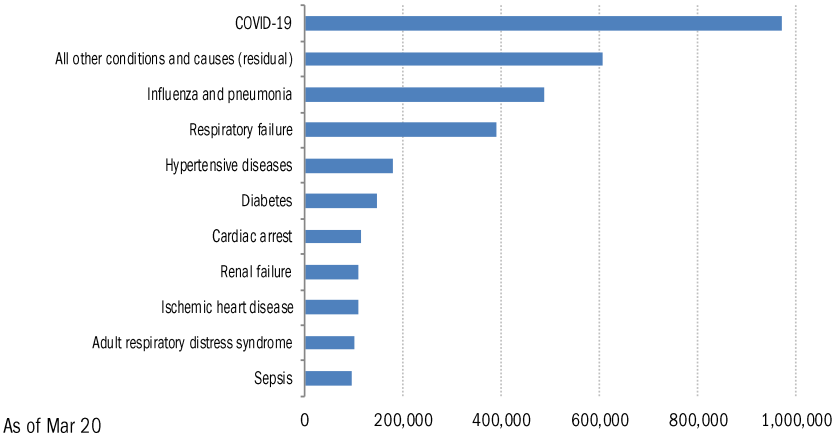
Racial distribution of US cases, fatalities and case-fatality rates

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

I'm Tired of Judging Other People's Covid Choices
Miranda Featherstone
New York Times
March 31, 2022

Follow the Science, or Follow the Money?
Brian Robertson
American Greatness
March 29, 2022

Many Teens Report Emotional and Physical Abuse by Parents During Lockdown
Ellen Barry
New York Times
March 31, 2022

Republicans expose 'uncommon' CDC, teachers' union ties on COVID school reopening guidance in report
Jessica Chasmar
Fox News
March 30, 2022

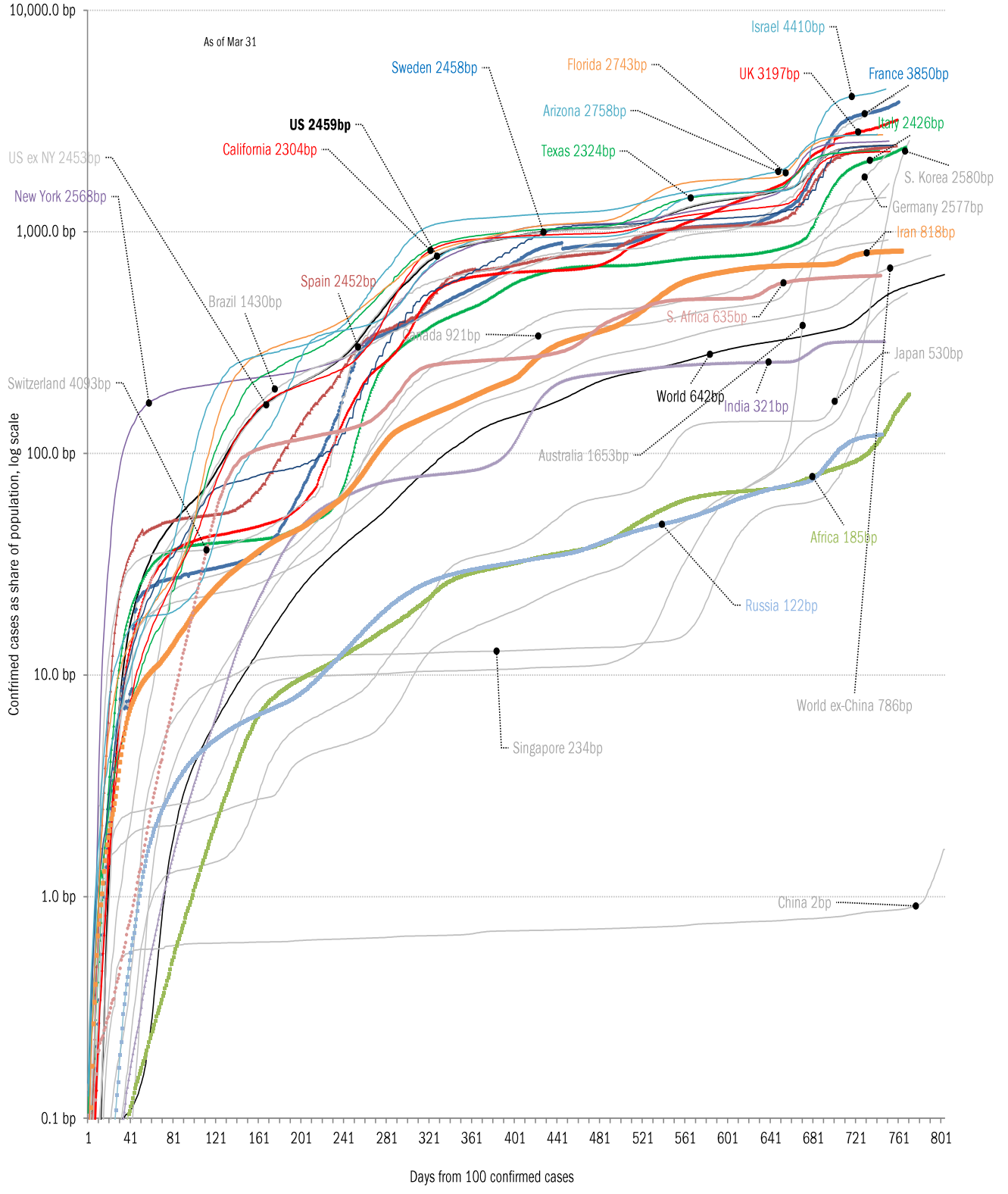
C.D.C. to Lift Order Restricting Immigration During the Pandemic
Eileen Sullivan
New York Times
March 30, 2022

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

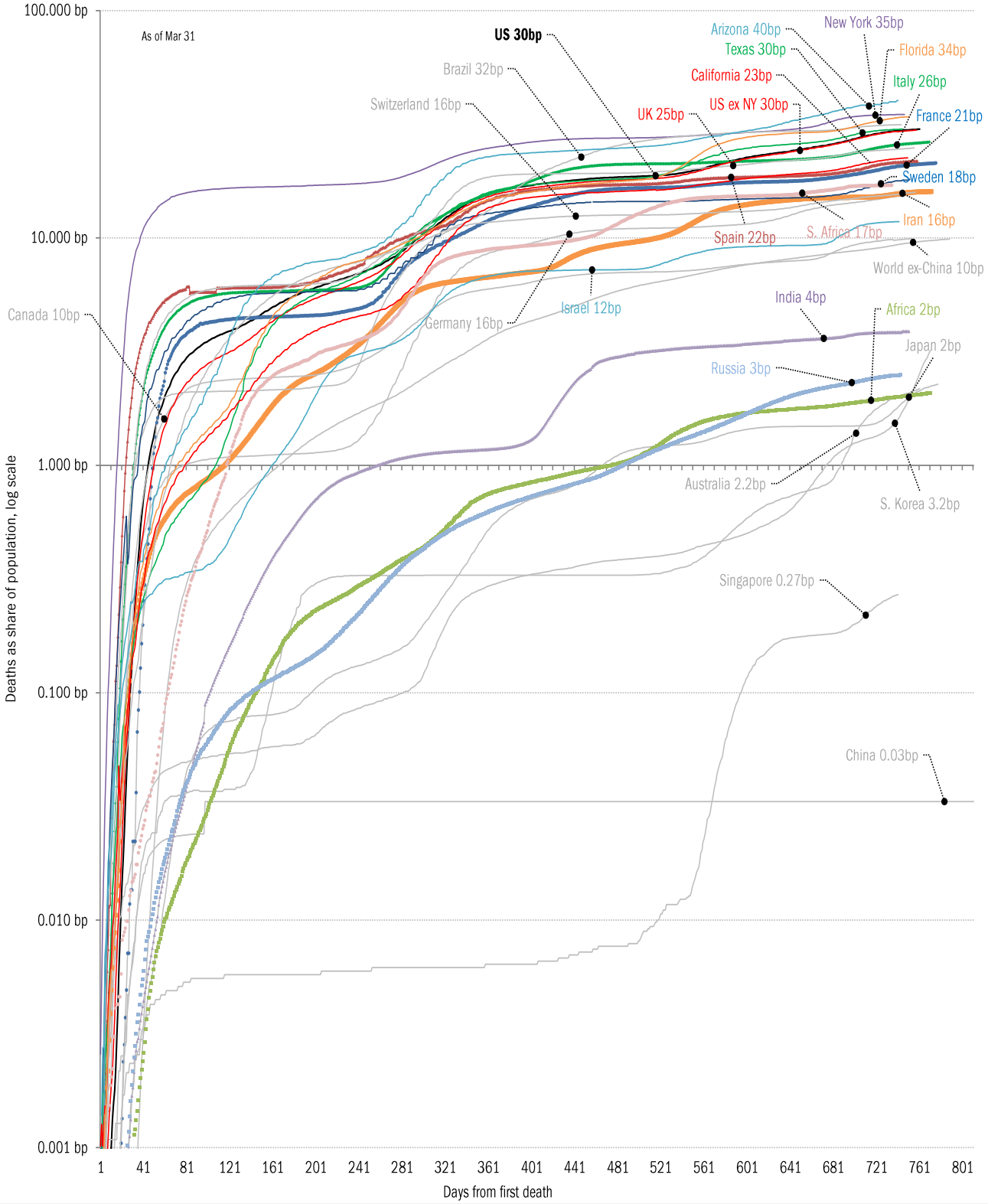
Share of infected population from first day with 100 confirmed cases, log scale



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

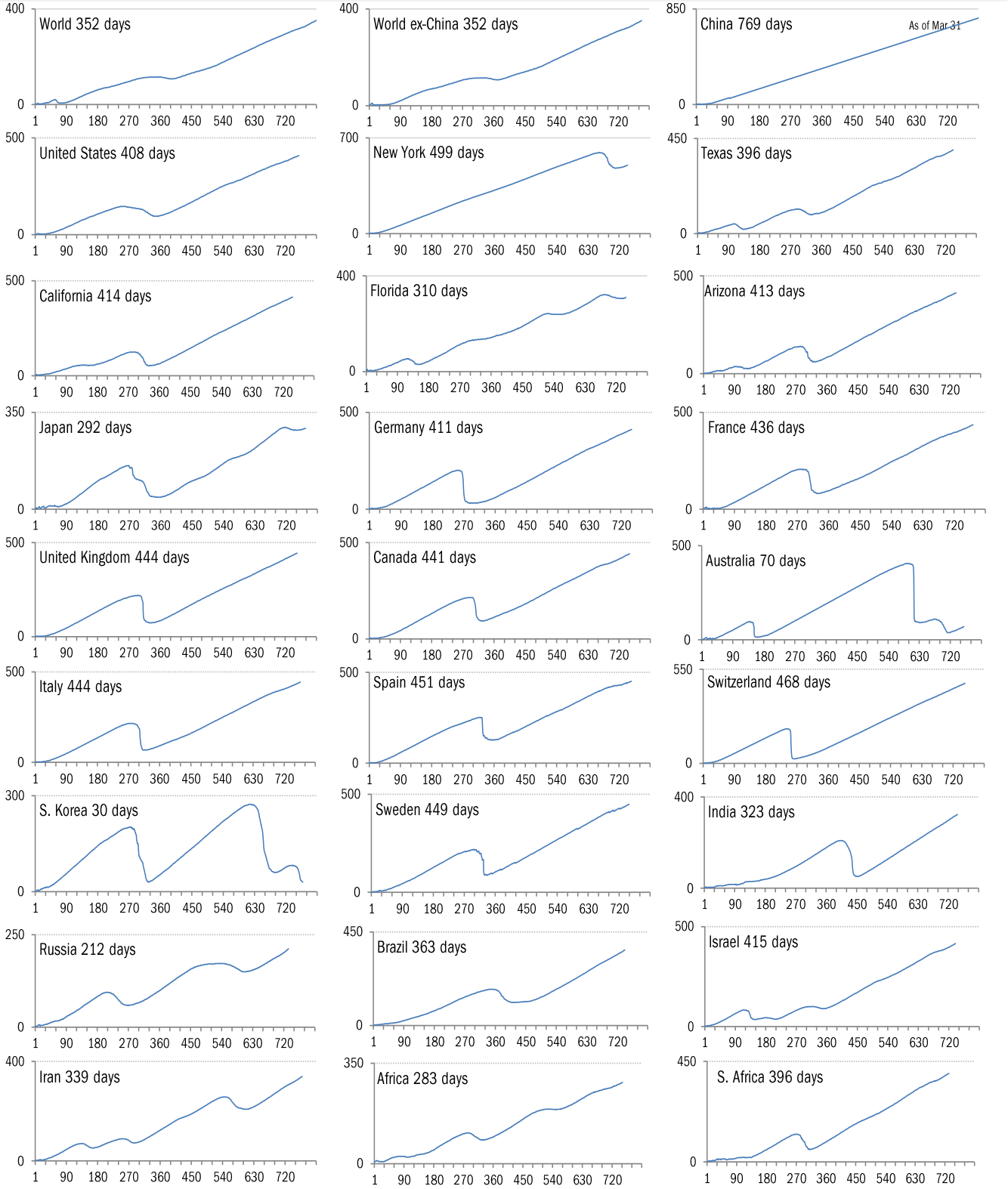


Source: Johns Hopkins, TrendMacro calculations

"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

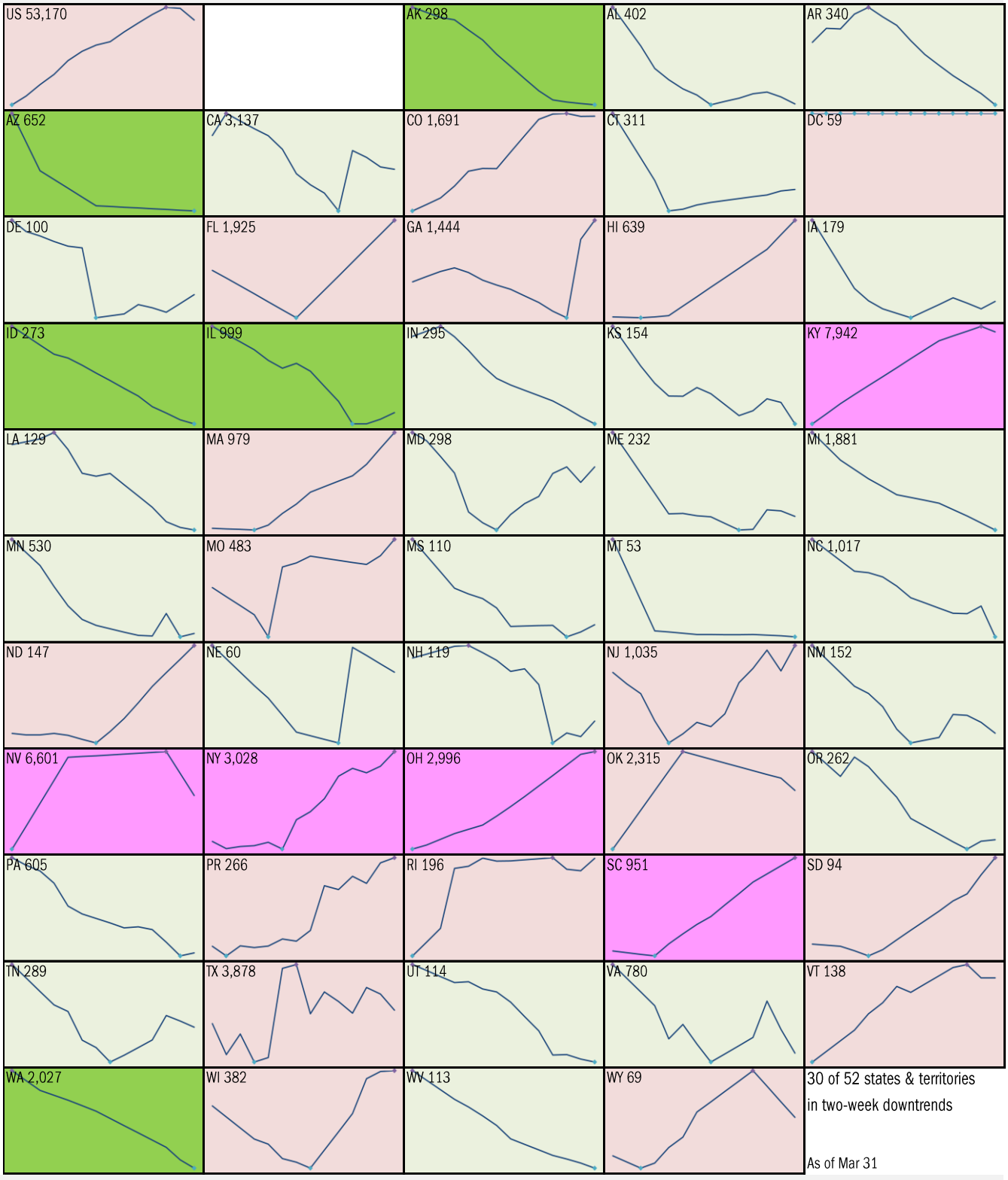


Source: Johns Hopkins, TrendMacro calculations

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

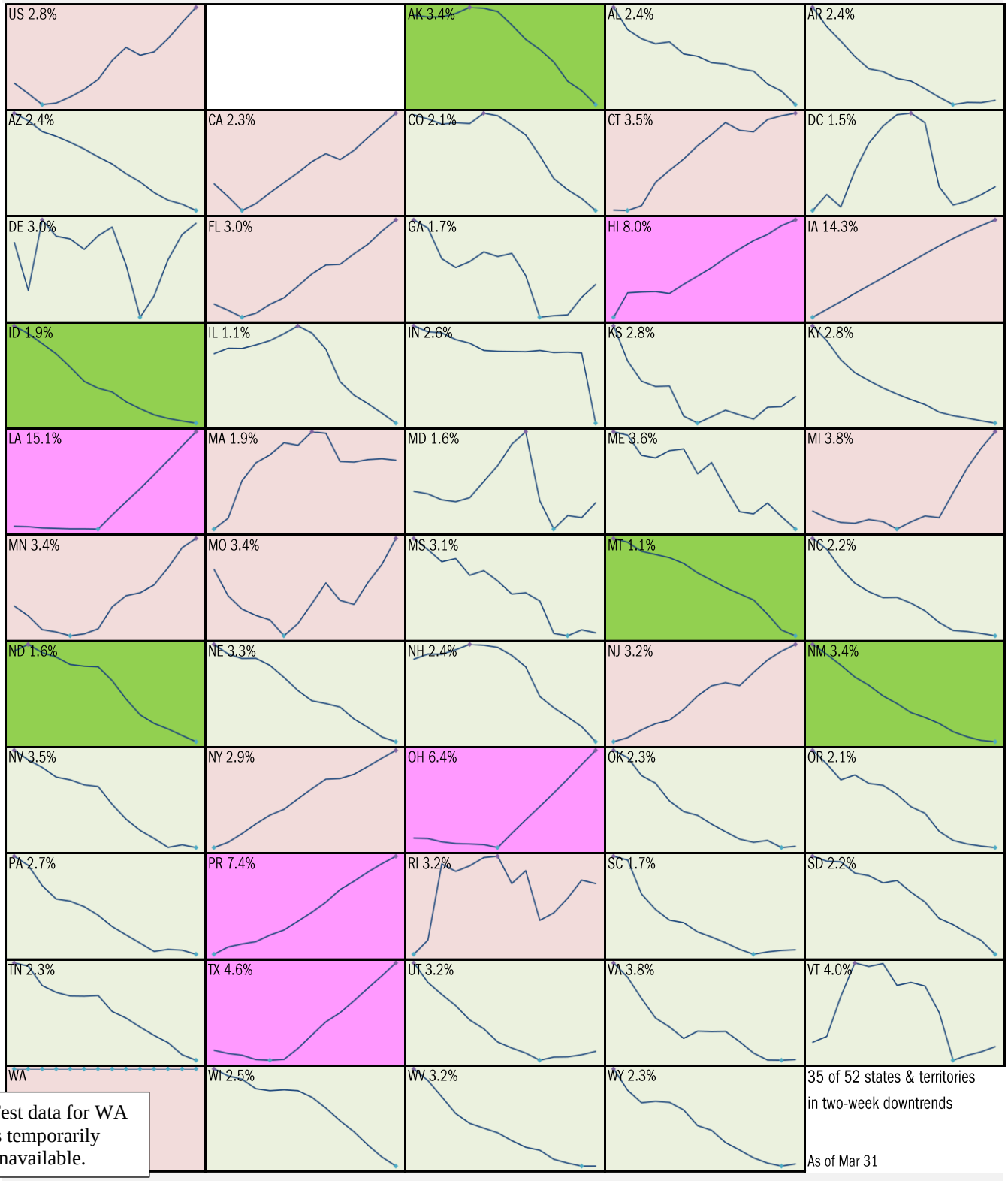


Source: Johns Hopkins, TrendMacro calculations

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

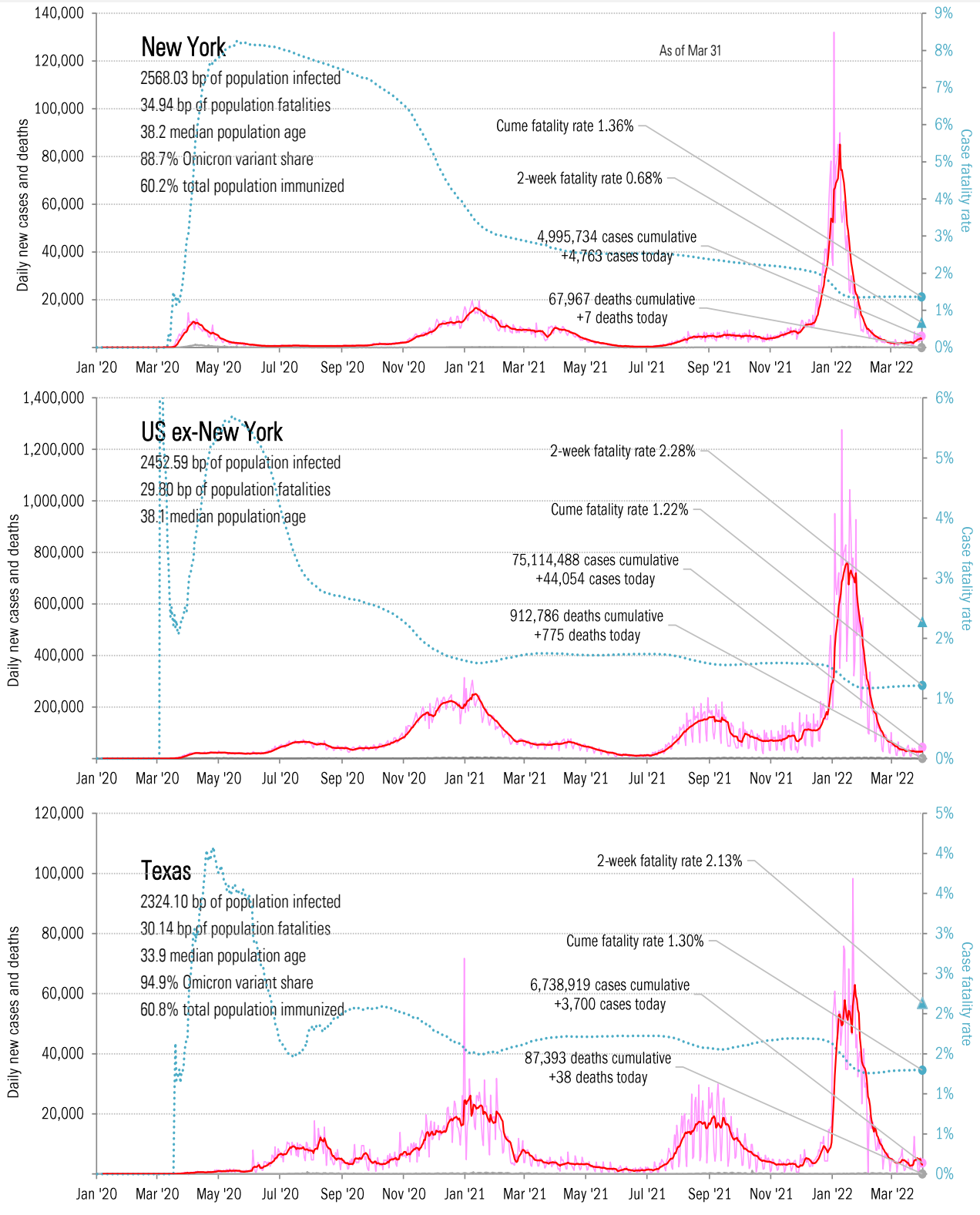


Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

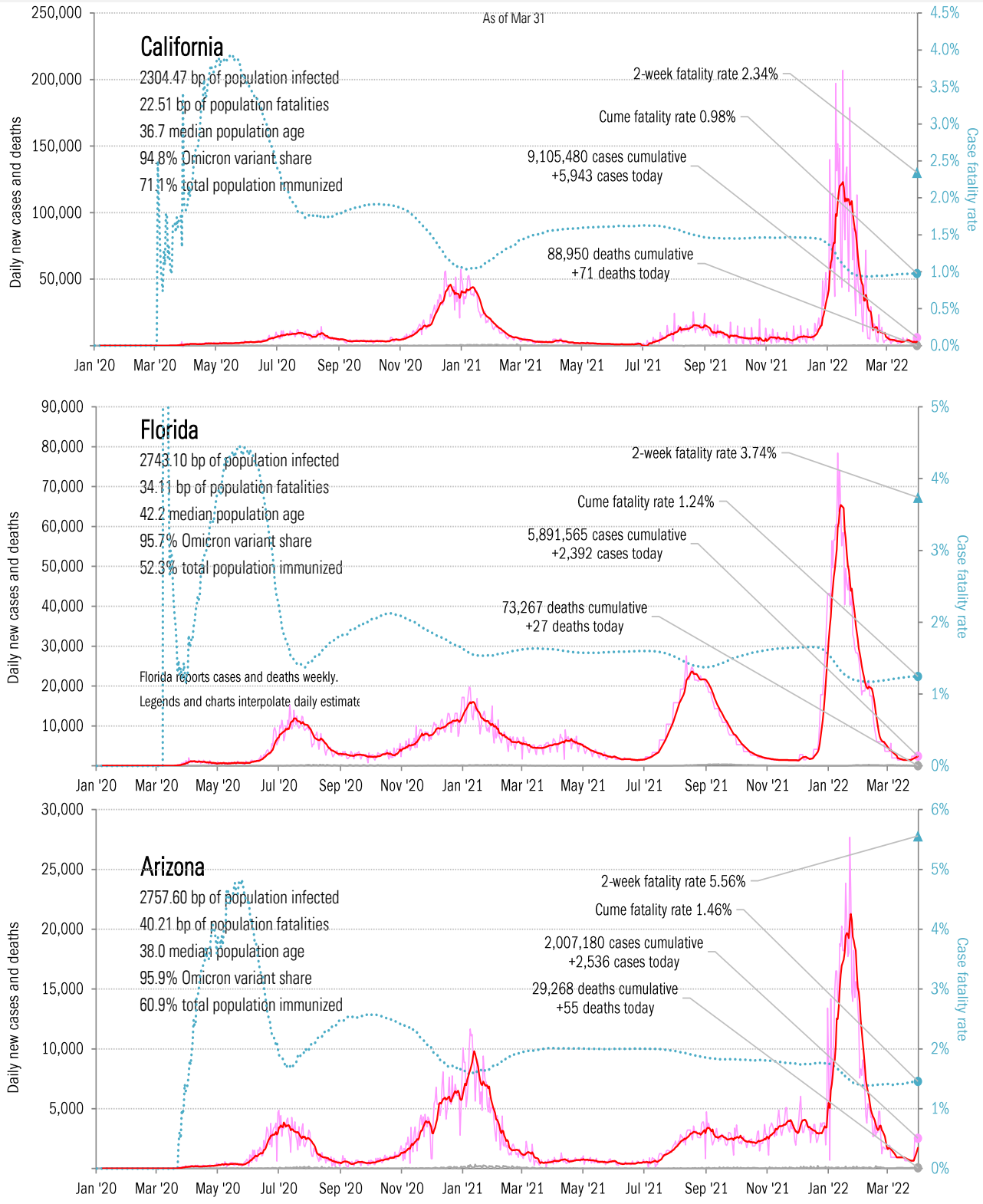
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

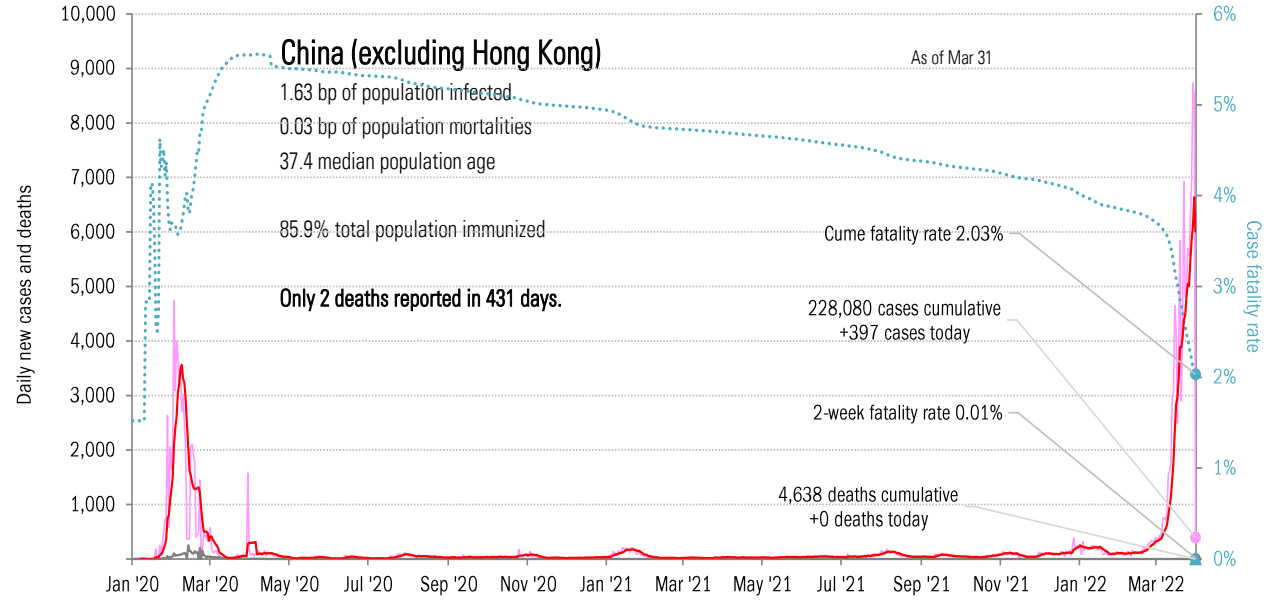
Cases: 7-day average and daily Deaths: Daily

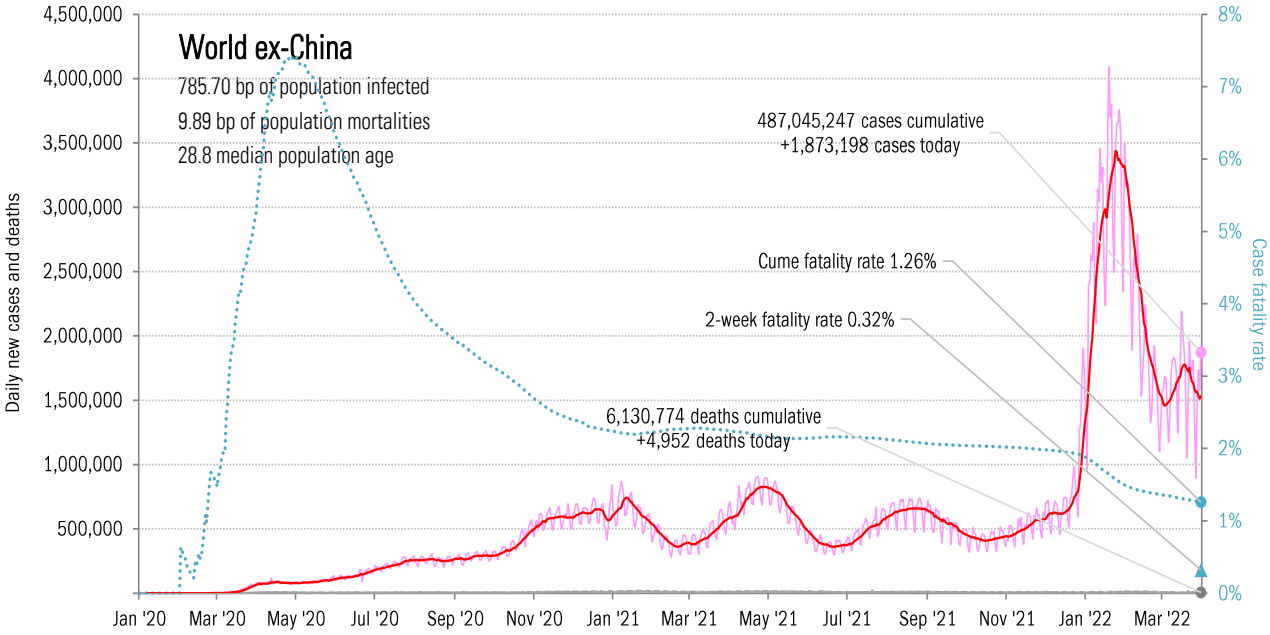


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

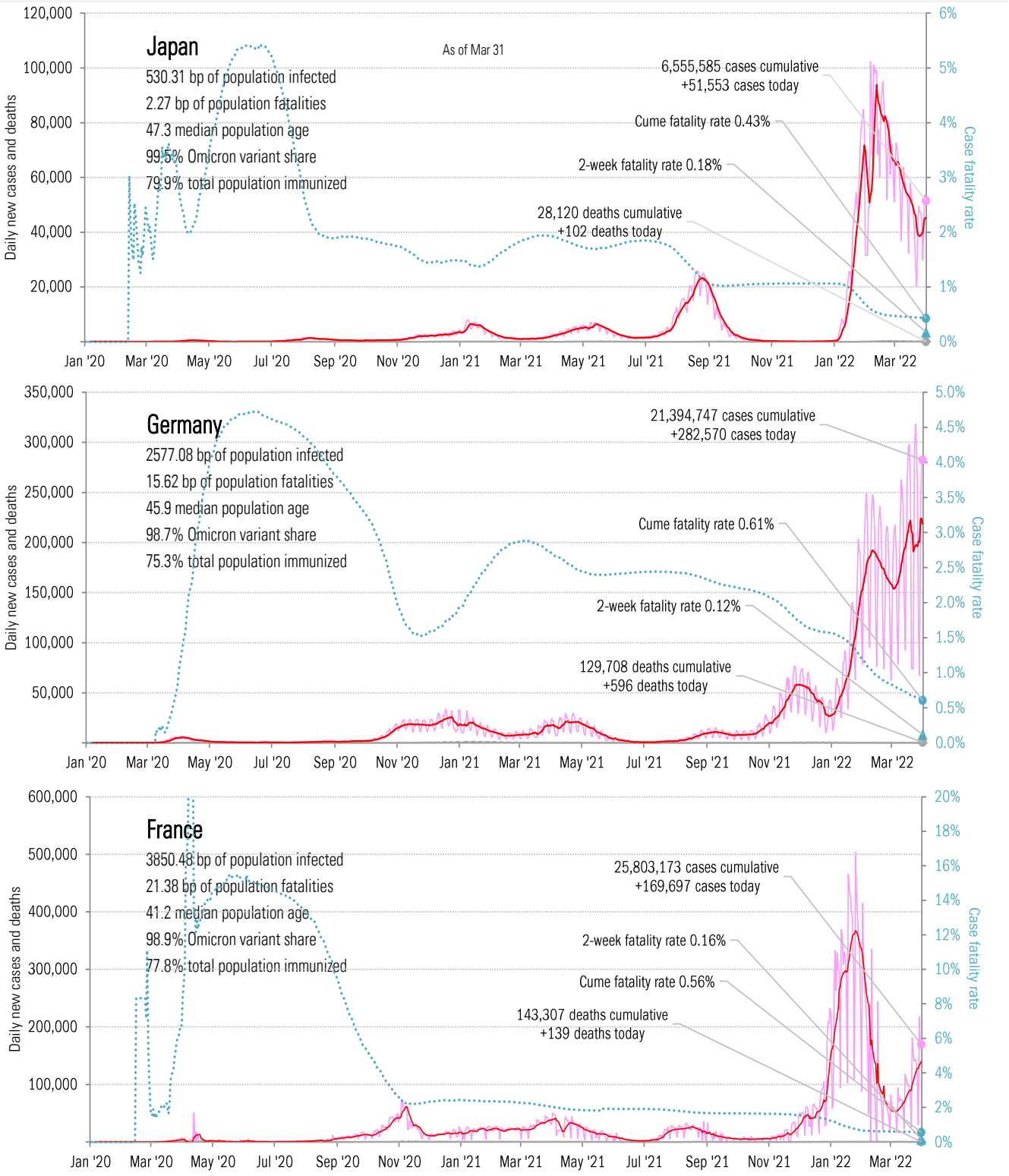




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

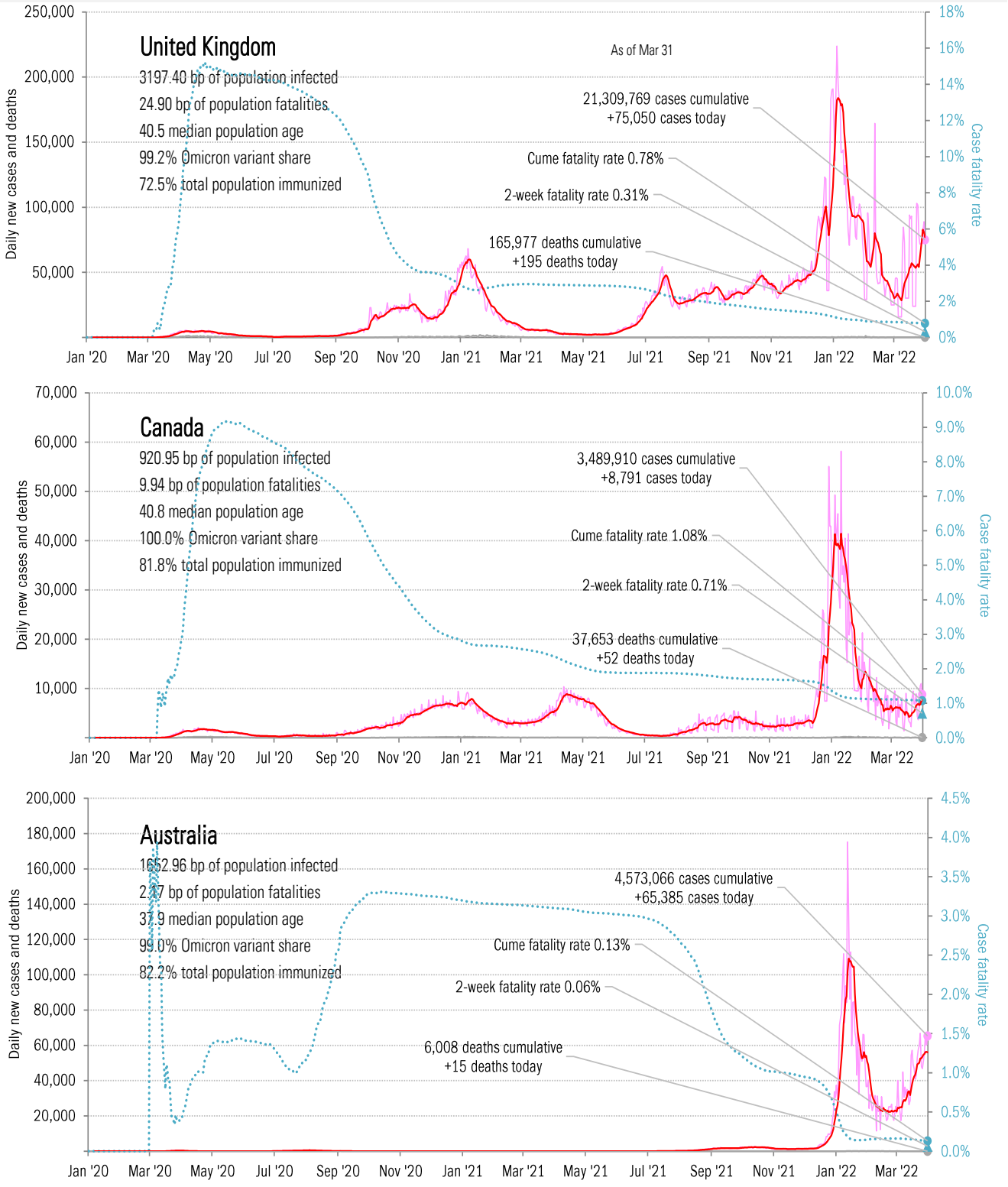
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

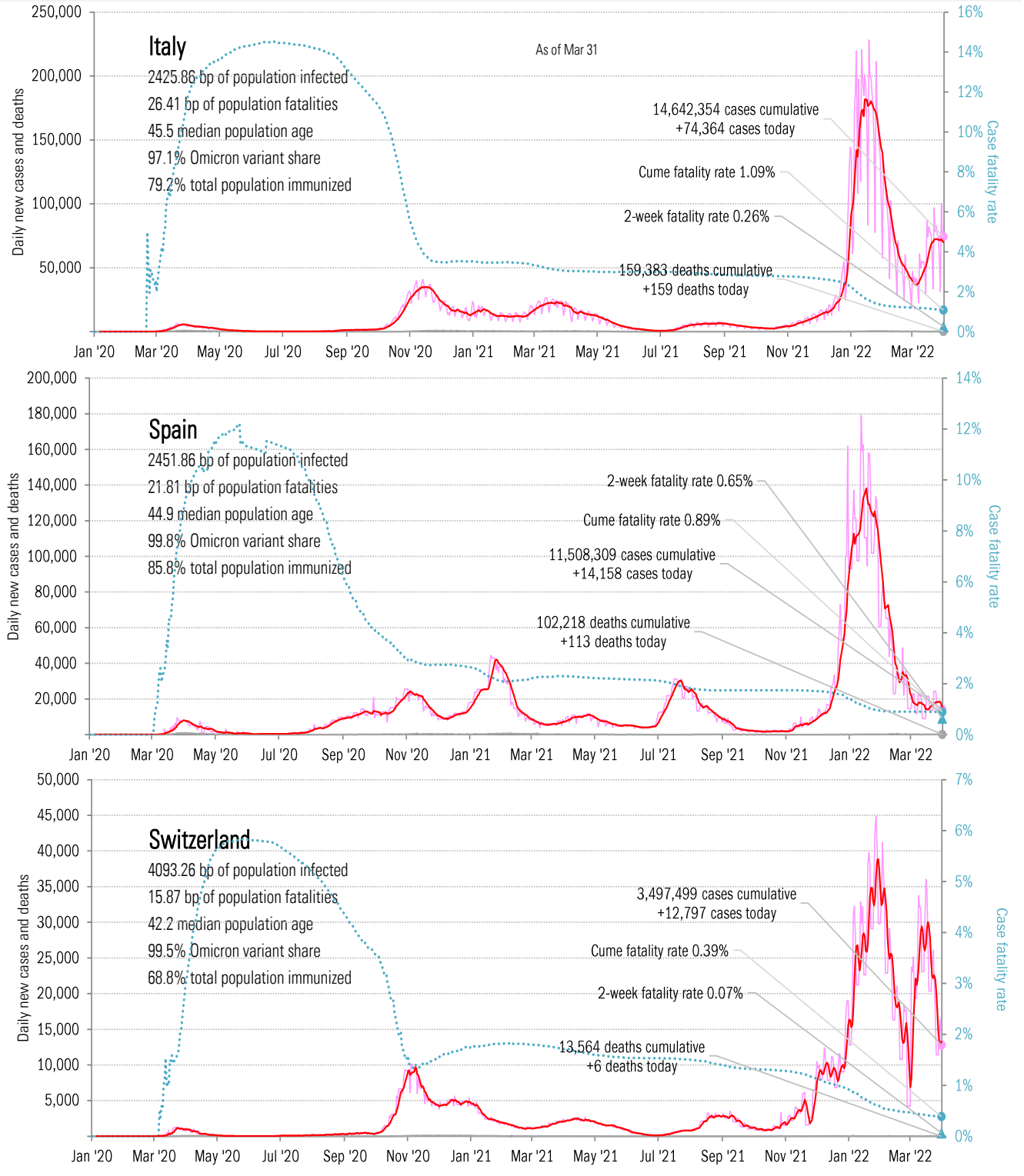
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

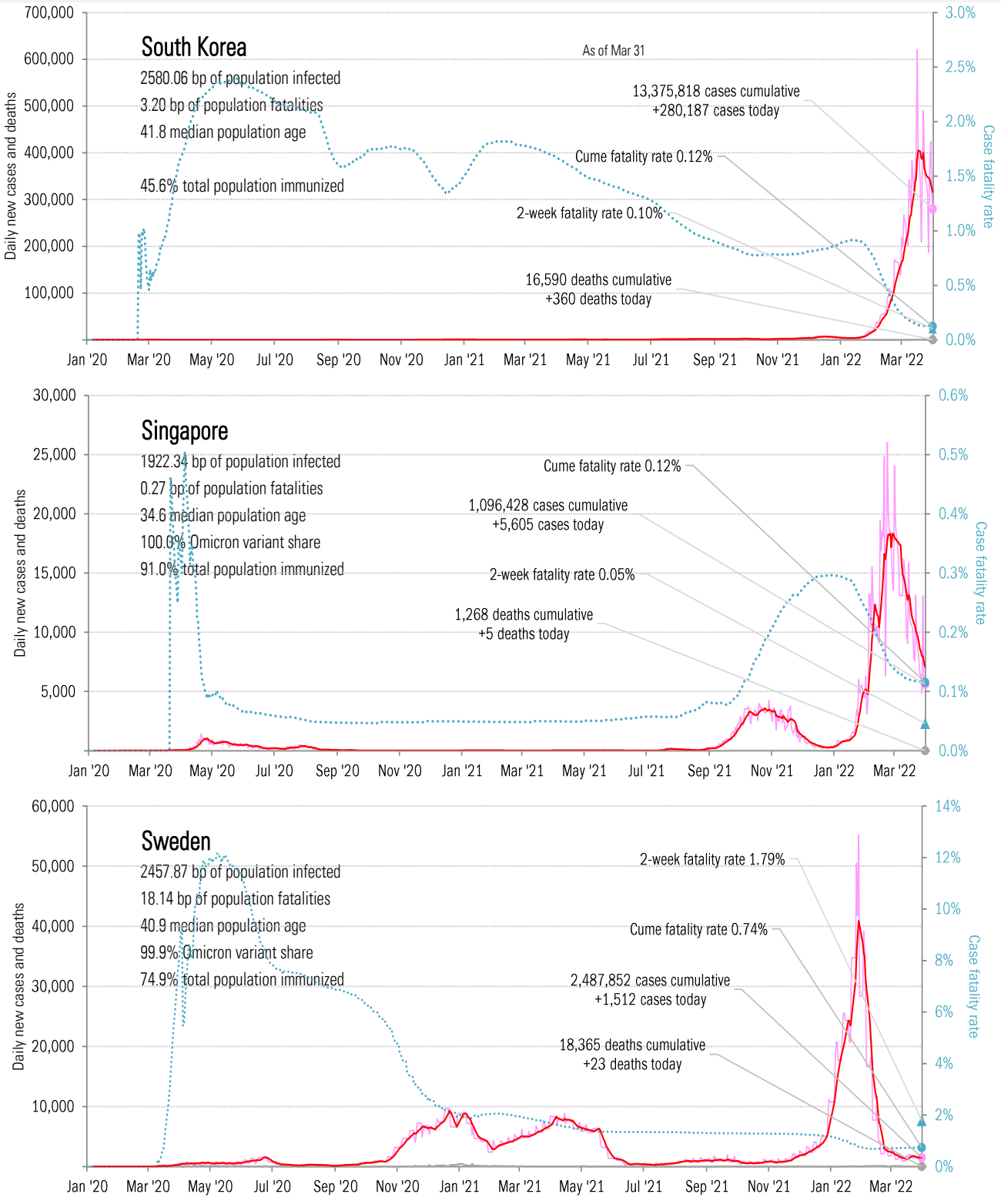
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

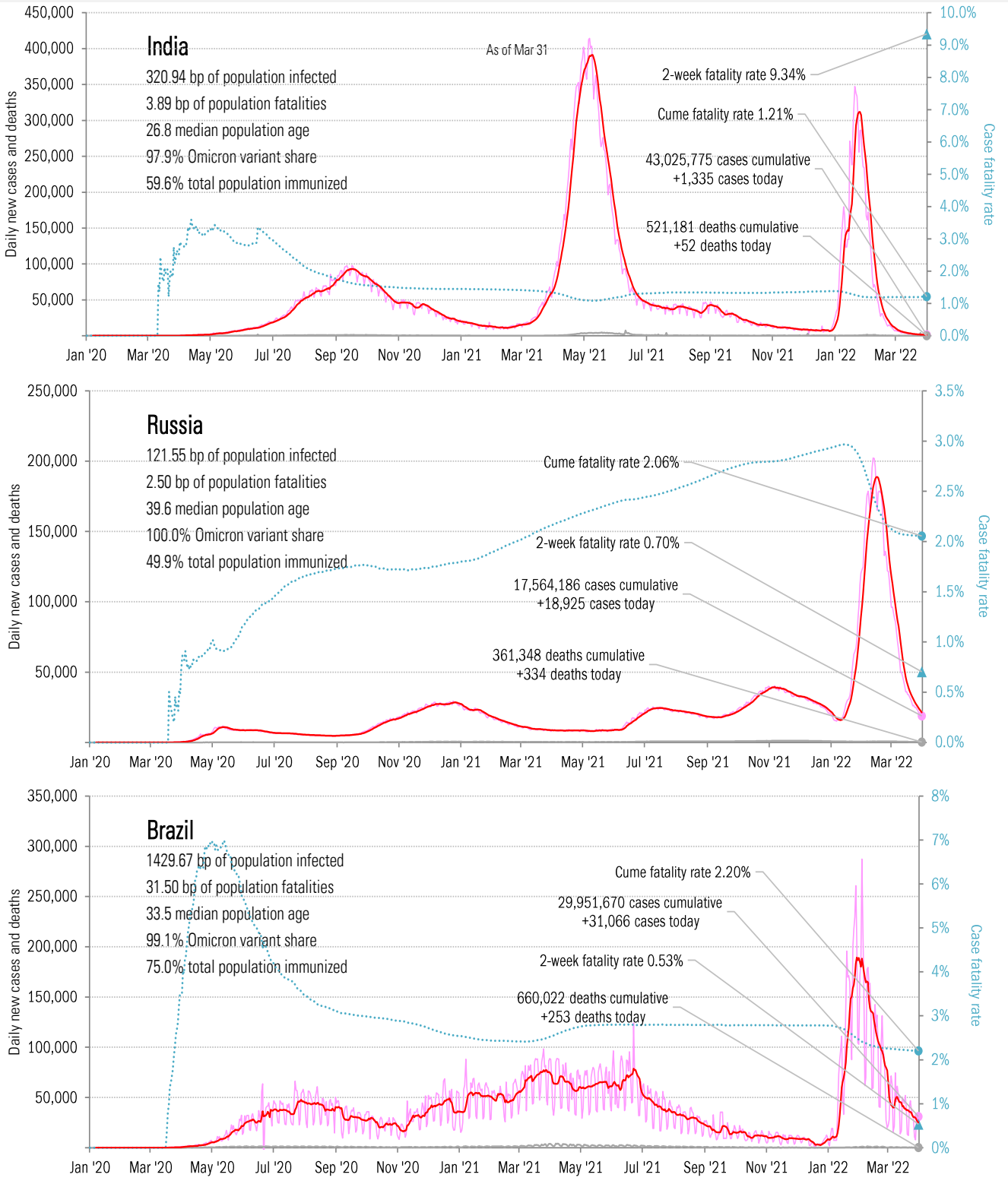
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

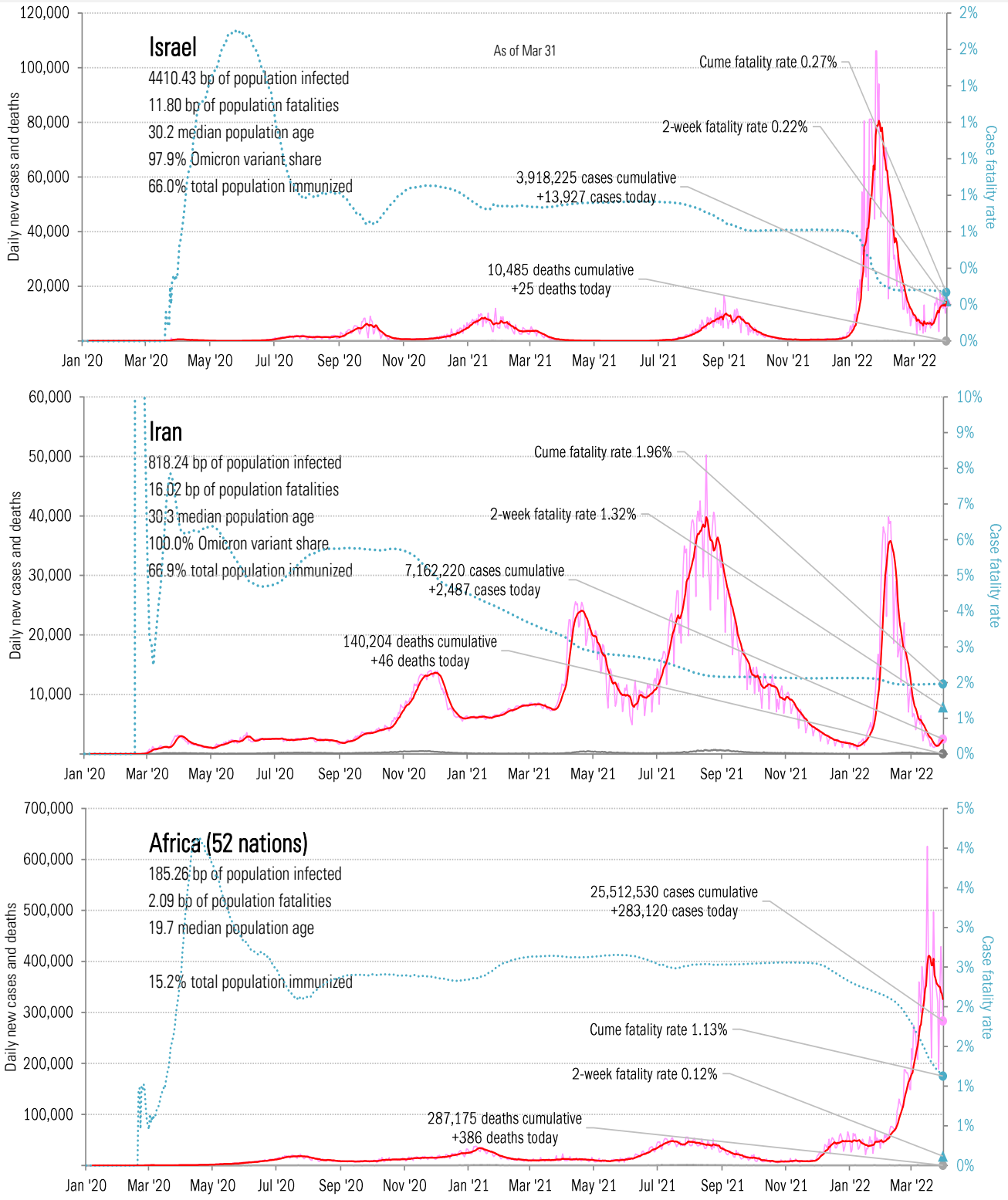
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

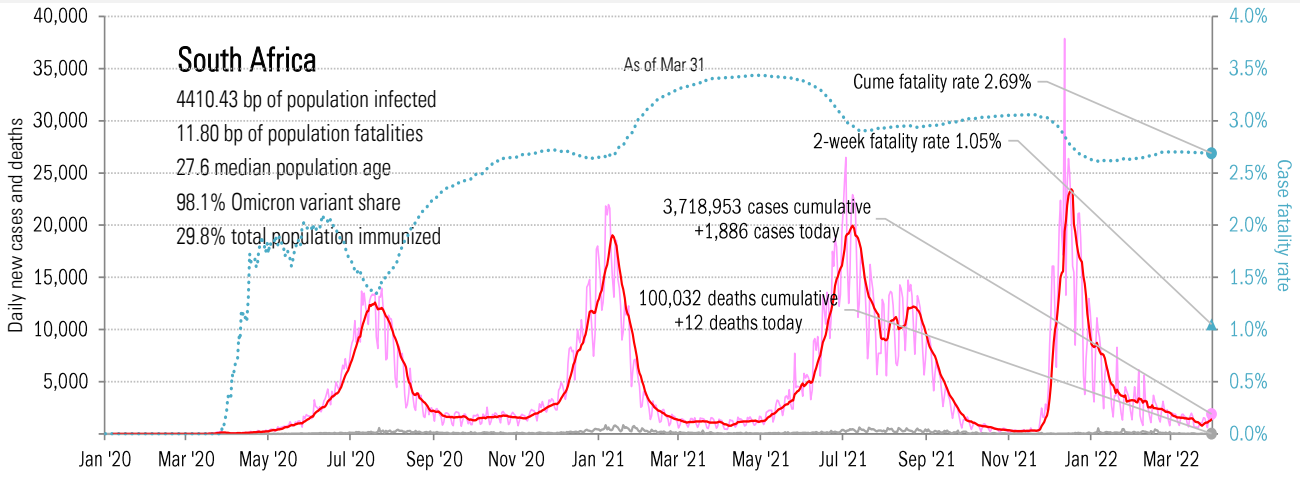
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations