Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

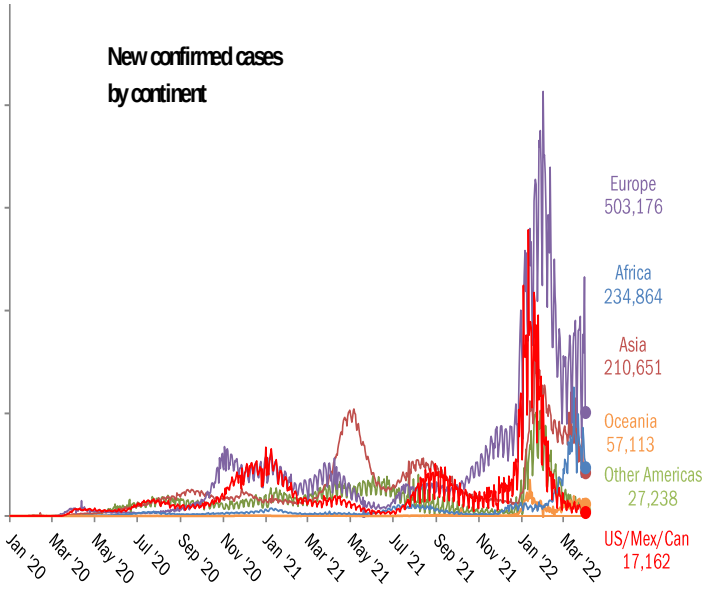
Sunday, April 3, 2022

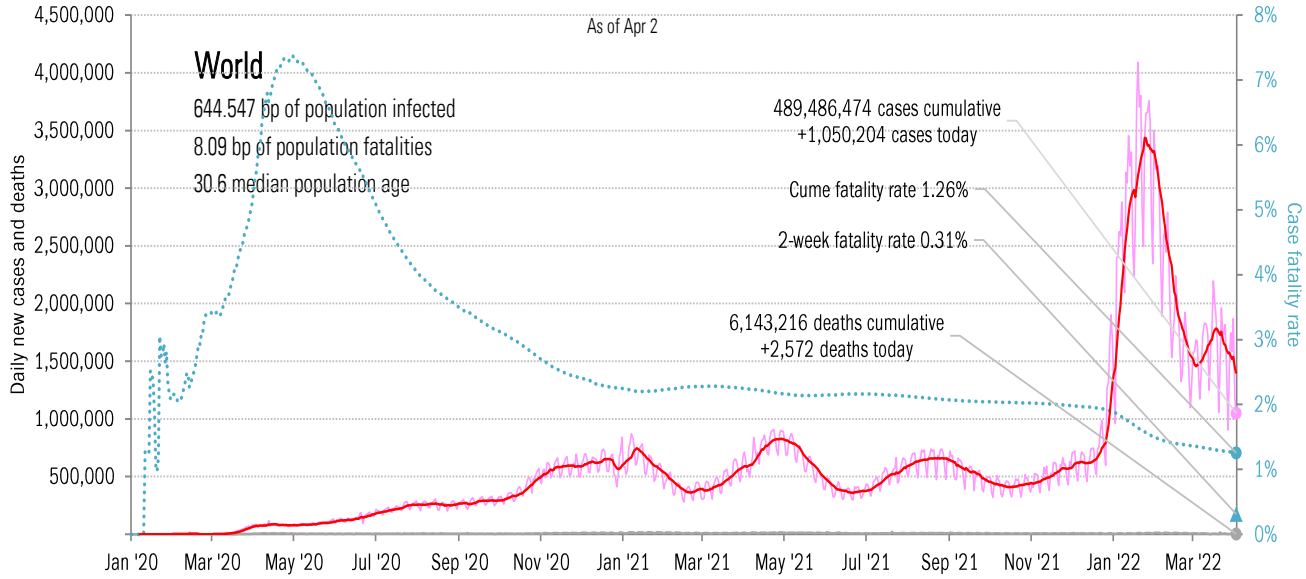
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Korea, South	234,301	Russia	329
Germany	196,456	Korea, South	306
France	132,114	Germany	292
Italy	71,412	United States	192
Vietnam	65,619	Italy	129
Japan	48,695	Brazil	106
Australia	48,097	Thailand	97
Thailand	26,840	Poland	96
China	20,953	Mexico	85
Austria	19,043	India	81
	863,530		1,713
World	1,050,204	World	2,572
Top ten	82%	Top ten	67%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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The US scorecard

Cases: 7-day average and daily Deaths: Daily

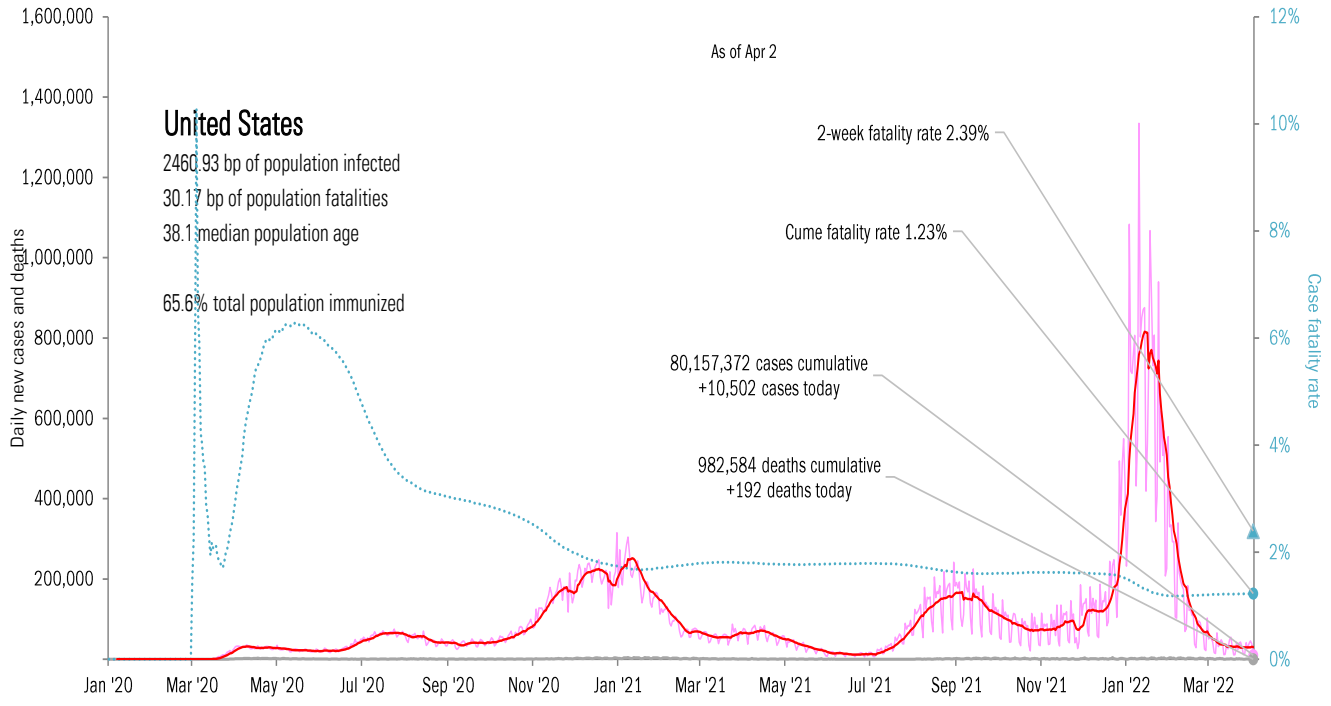
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
NY	3,286	FL	38	NY	148	CA	9,109,754	CA	89,012	TX	487,244	RI	87%	VT	97%
TX	2,879	TX	33	NJ	57	TX	6,744,442	TX	87,459	CA	422,831	MA	85%	TX	84%
NJ	1,493	DE	24	OK	19	FL	5,891,565	FL	73,341	FL	413,520	MN	83%	RI	82%
PA	653	KY	23	IA	17	NY	5,002,854	NY	67,987	NY	245,143	PA	82%	DC	82%
IA	585	AL	19	RI	8	IL	3,069,650	PA	44,313	GA	206,605	MO	82%	KY	82%
KY	488	PA	18	VA	33	PA	2,782,827	OH	38,042	OH	190,125	WA	82%	NC	81%
PR	432	AR	14	LA	22	OH	2,672,801	GA	37,057	PA	175,568	DC	81%	NM	80%
ME	212	NJ	7	ND	6	NC	2,630,506	IL	35,827	IL	156,506	WV	80%	MA	79%
TN	188	NY	4	UT	14	GA	2,500,259	MI	35,706	MI	140,657	MD	80%	WA	79%
AL	115	AK	0	AL	19	MI	2,389,506	NJ	33,245	KY	132,587	DE	80%	AR	77%
	10,331		180		343		42,794,164		541,989		2,570,786				
All states	10,502		192		1,487	All states	80,157,372		982,584		4,668,129	All states	70%		67%
Top ten	98%		94%		23%	Top ten	53%		55%		55%	Median	75%		73%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-8,133	IN	-979	CA	-97	DE	+10 bp
FL	-6,561	FL	-128	TX	-79	ID	+10 bp
KY	-2,290	KS	-103	AZ	-22	KS	+10 bp
MI	-1,985	GA	-70	MN	-22	MD	+10 bp
MA	-1,600	CA	-62	WI	-22	NJ	+10 bp



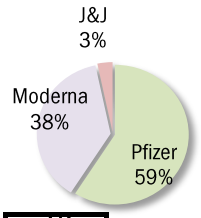
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	576,719,067				+0.246 million
Boosters	99,180,059				+0.056 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	263,329,421	79%	224,022,791	67%	+0.036 million
Age 12 to 17	17,563,198	69%	14,985,394	59%	+0.003 million
Age 18 to 64	177,383,490	87%	150,452,862	74%	+0.018 million
Age 65 and over	58,329,845	100%	50,532,739	92%	+0.010 million

Immunity	Full	Partial
US	65.6%	77.0%
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	82.4%	86.1%
Israel	66.0%	72.2%
Canada	81.9%	85.8%
Japan	79.9%	81.3%
Africa	15.2%	20.3%
India	59.7%	71.0%
Brazil	75.1%	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

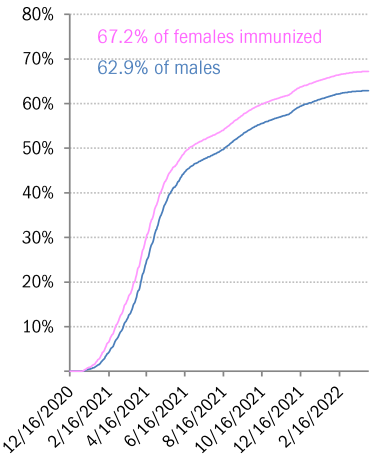
"Immunity" = two doses

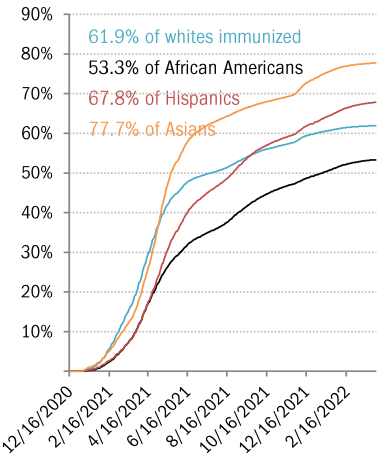
Best
Middle
Worst

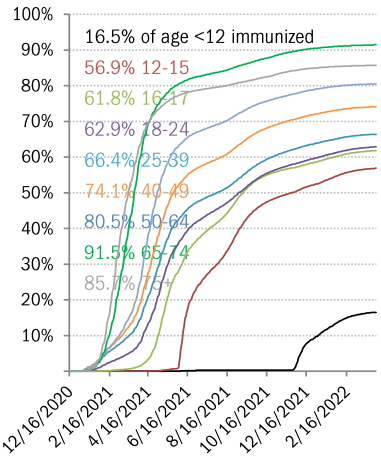
As of Apr 2

					WI					ME
					71.5%					89.6%
					65.1%					78.8%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
80.3%	60.8%	64.9%	64.7%	74.7%	76.3%	66.6%		89.6%	93.0%	90.2%
72.1%	53.7%	56.4%	54.6%	68.8%	68.2%	59.8%		76.2%	80.6%	69.4%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
77.5%	74.7%	58.4%	75.7%	67.7%	61.1%	63.3%	84.1%	89.8%	95.0%	
69.2%	60.3%	51.1%	60.6%	61.6%	54.5%	58.1%	67.6%	75.0%	78.2%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
82.6%	71.8%	78.9%	70.0%	65.8%	65.8%	64.6%	85.1%	85.8%	94.7%	95.0%
71.2%	63.9%	69.8%	63.2%	55.6%	57.0%	57.2%	72.6%	75.0%	78.4%	81.6%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	72.3%	86.8%	74.0%	66.2%	61.8%	83.2%	67.1%	95.0%	82.4%	
	61.0%	70.4%	60.8%	54.0%	54.1%	60.0%	56.5%	72.9%	68.4%	
			OK	LA	MS	AL	GA			
			70.6%	60.7%	59.3%	62.3%	64.9%			
			56.6%	53.2%	51.5%	50.7%	54.3%			
HI			TX					FL		PR
87.0%			72.2%					78.7%		95.0%
77.8%			60.9%					66.5%		82.2%

The demographics of US vaccination



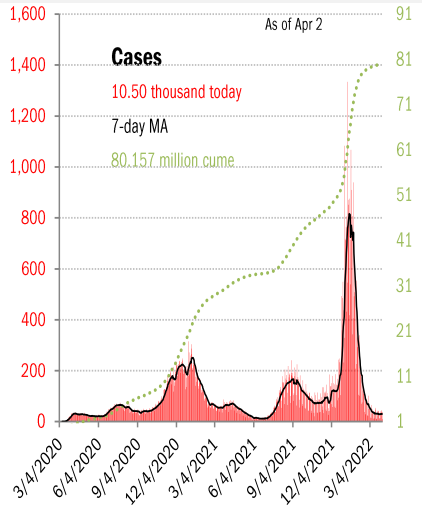


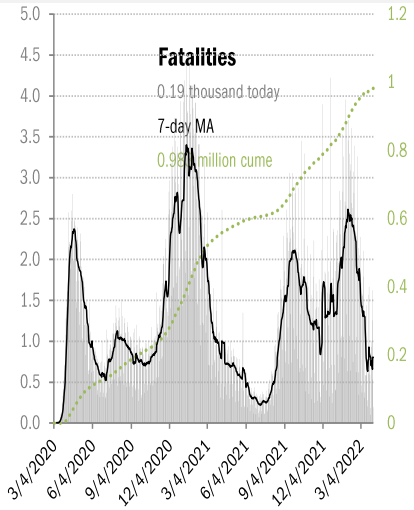


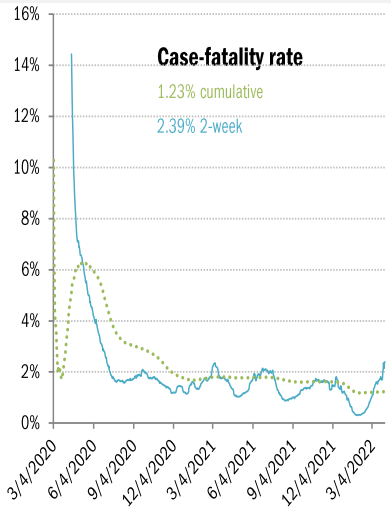
Source: CDC, CDC, Our World in Data, TrendMacro calculations

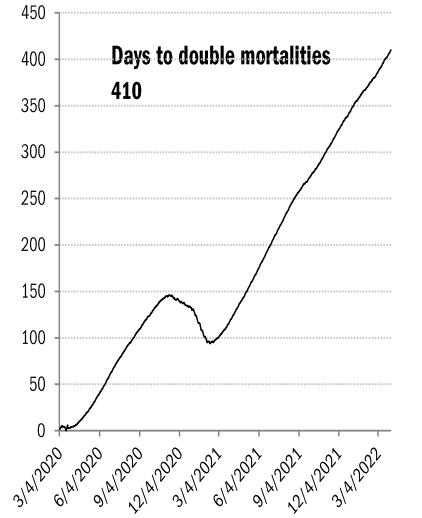
US deep-dive

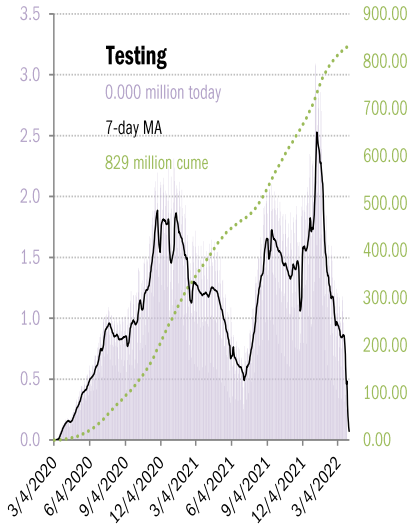
National and state-by-state data do not line up because of different sources

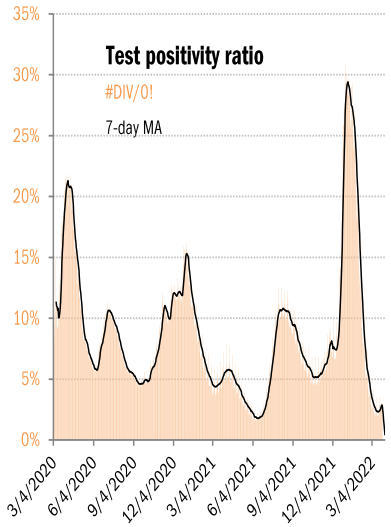


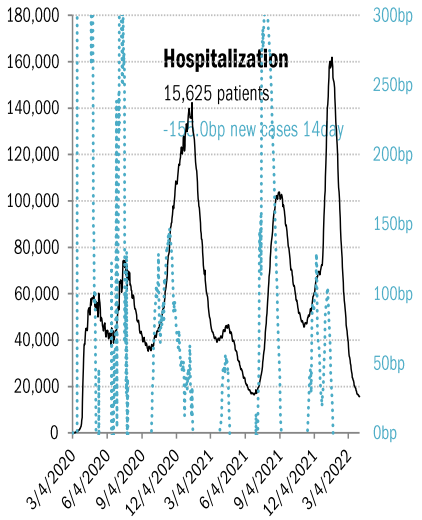


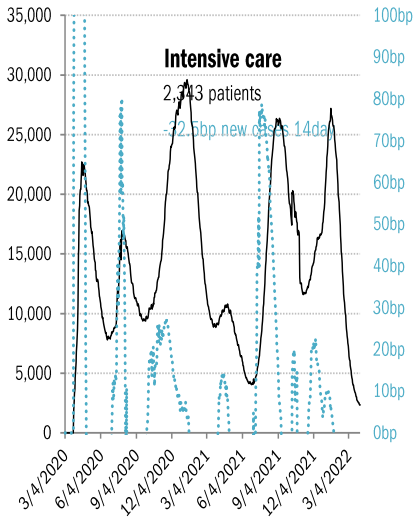


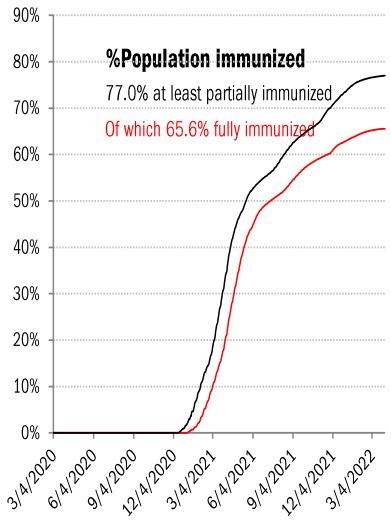












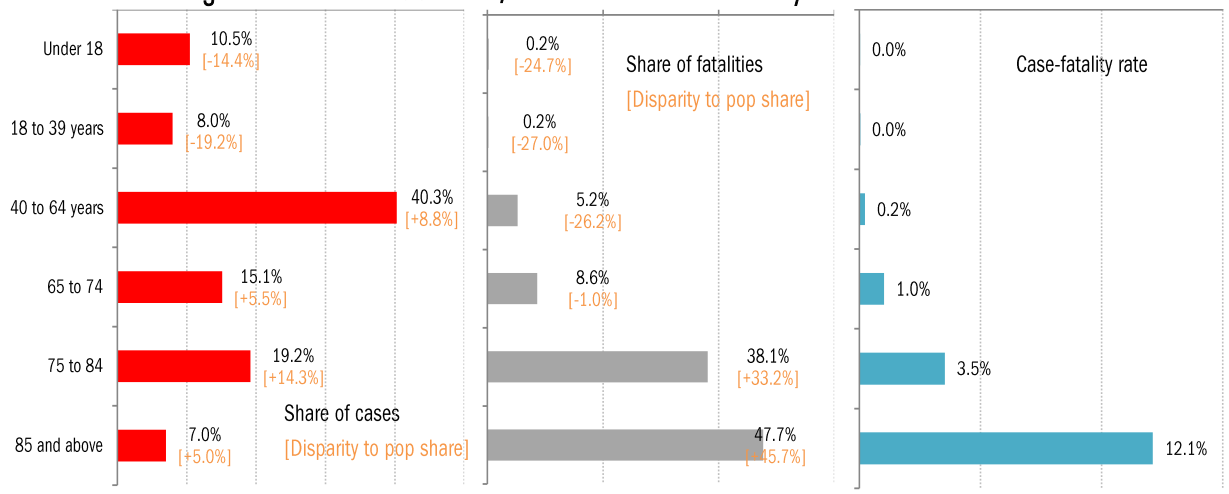
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

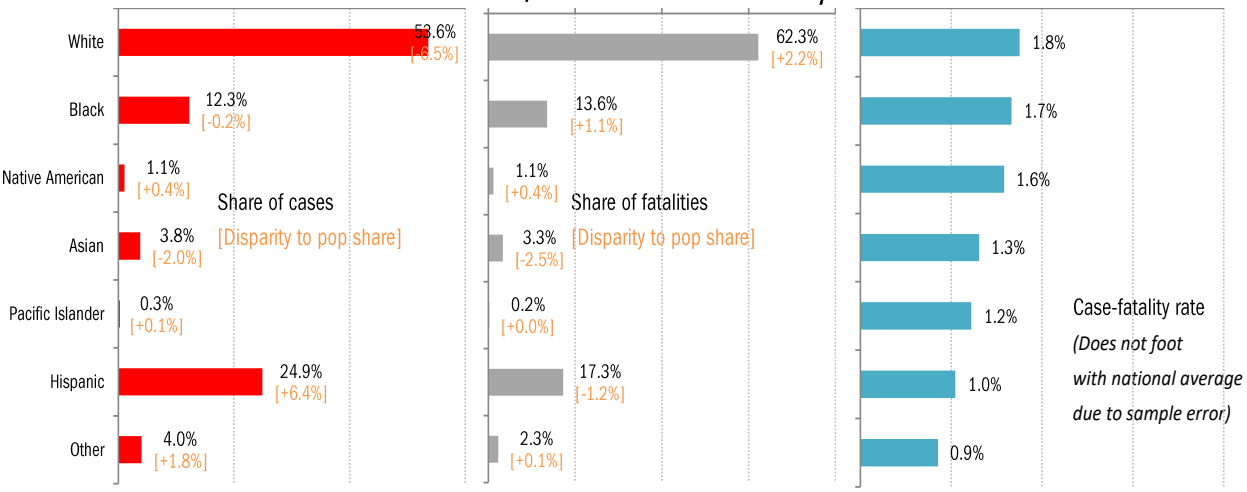
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



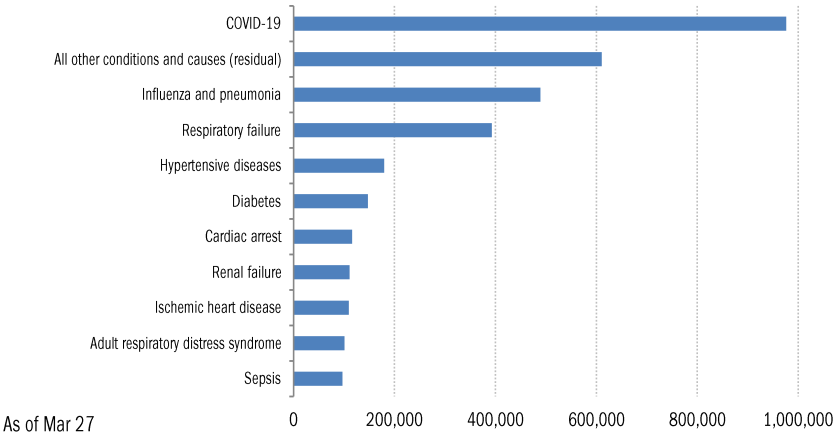
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Mar 27

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.

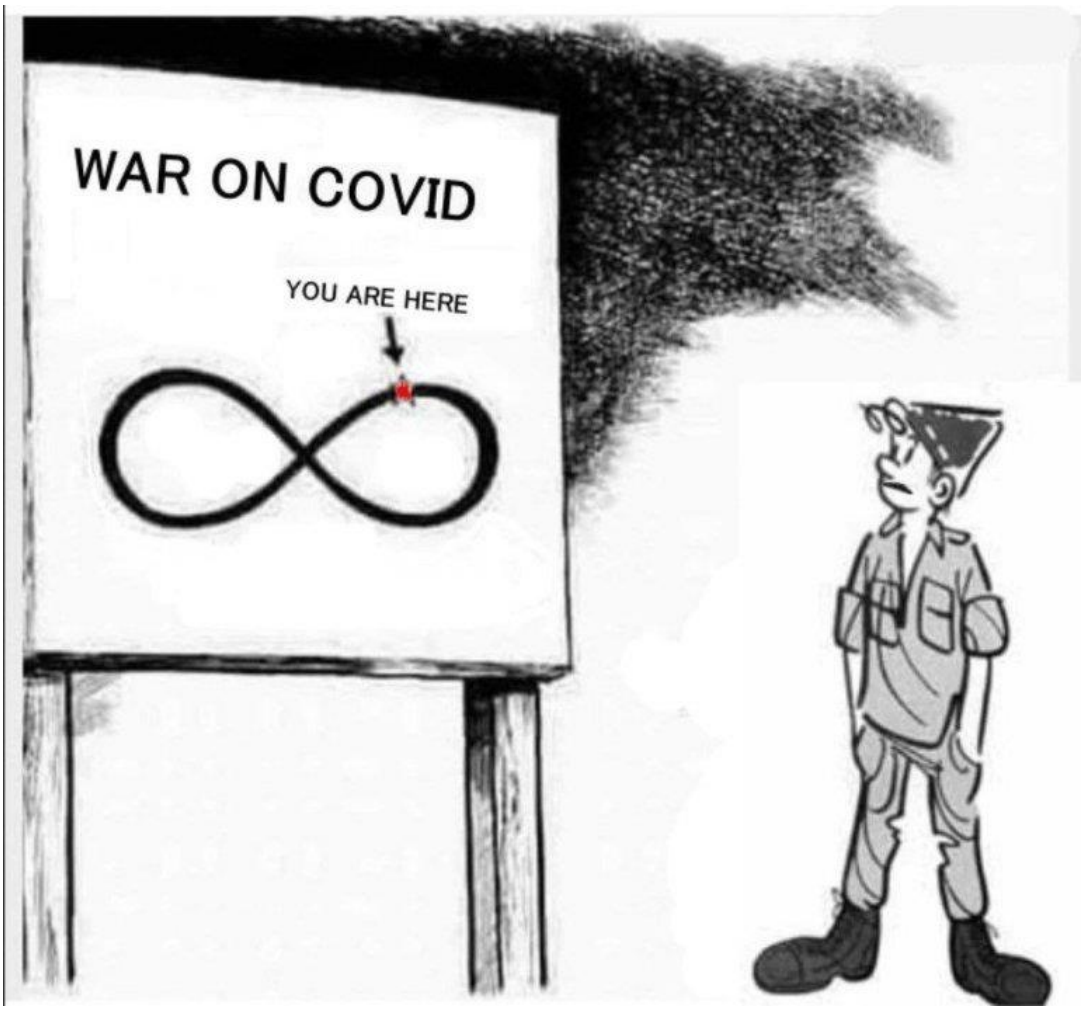
Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

A New Wave of Covid-19 Is Coming. Here's How to Prepare.
Tara Parker-Pope and Knvul Sheikh
New York Times
March 30, 2022

Covid-19 hospitalizations hit a pandemic low in the US, but strain on hospitals persists
Deidre McPhillips
CNN
April 1, 2022

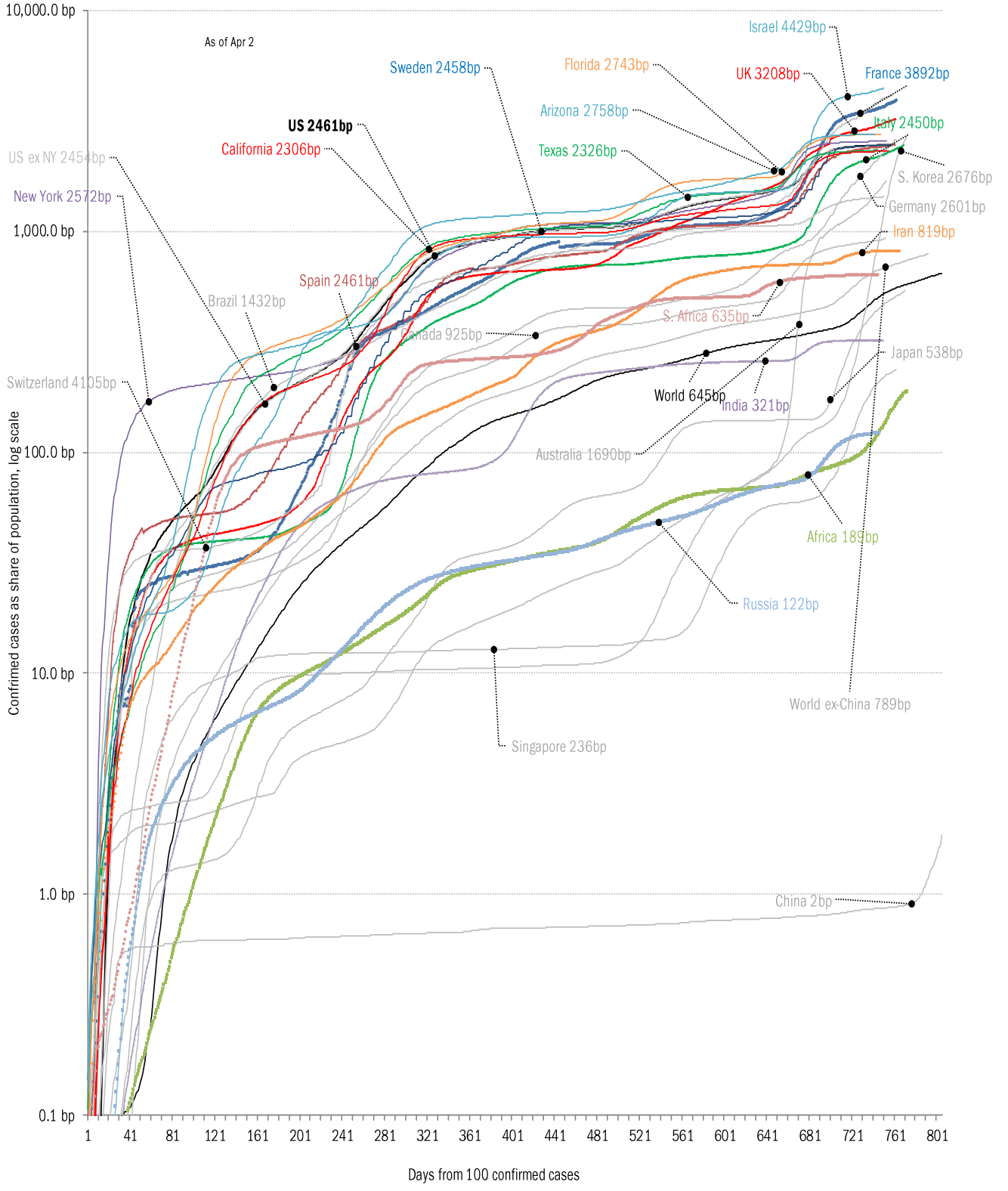
Meme of the day



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

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

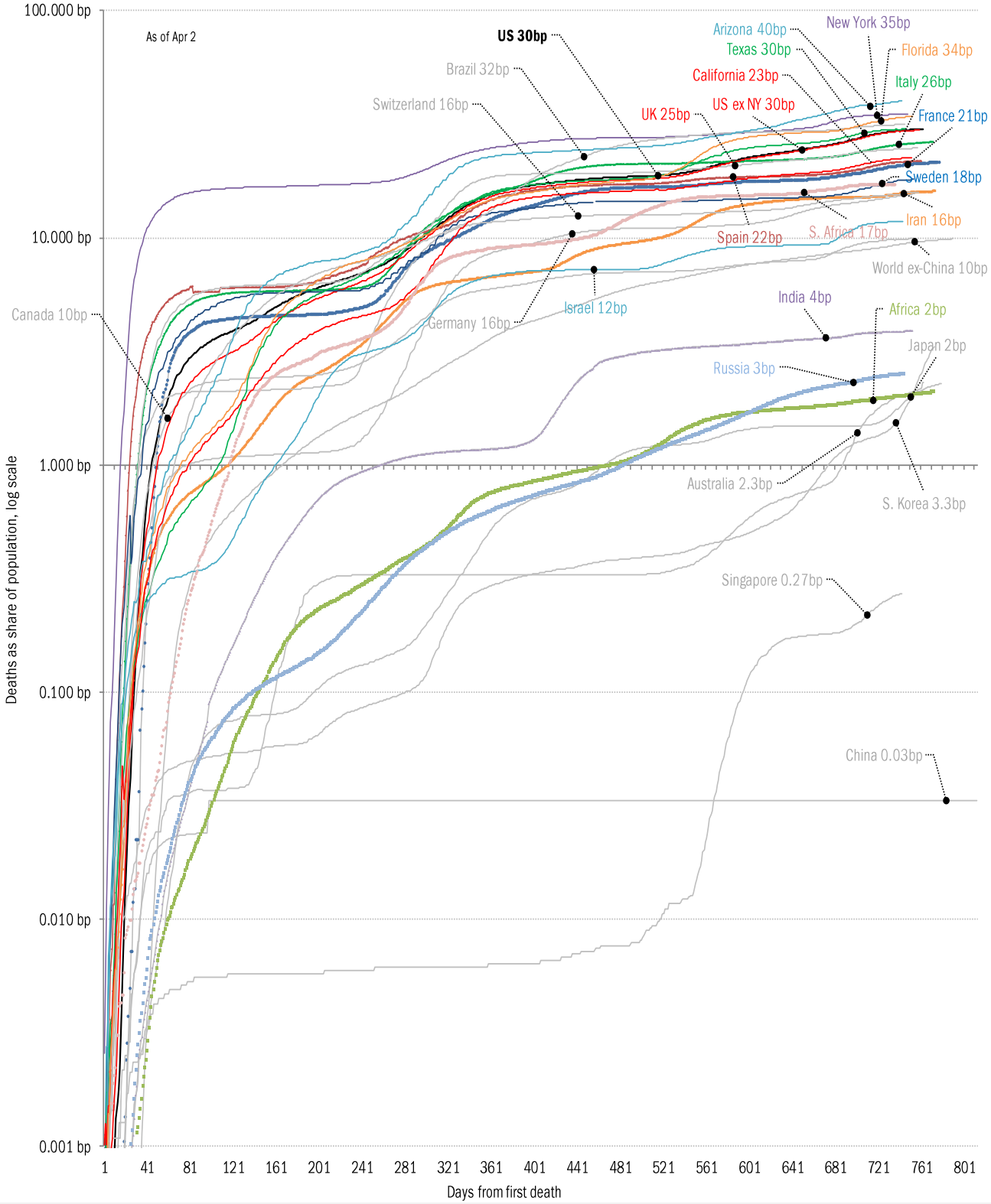
Share of infected population from first day with 100 confirmed cases, log scale



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

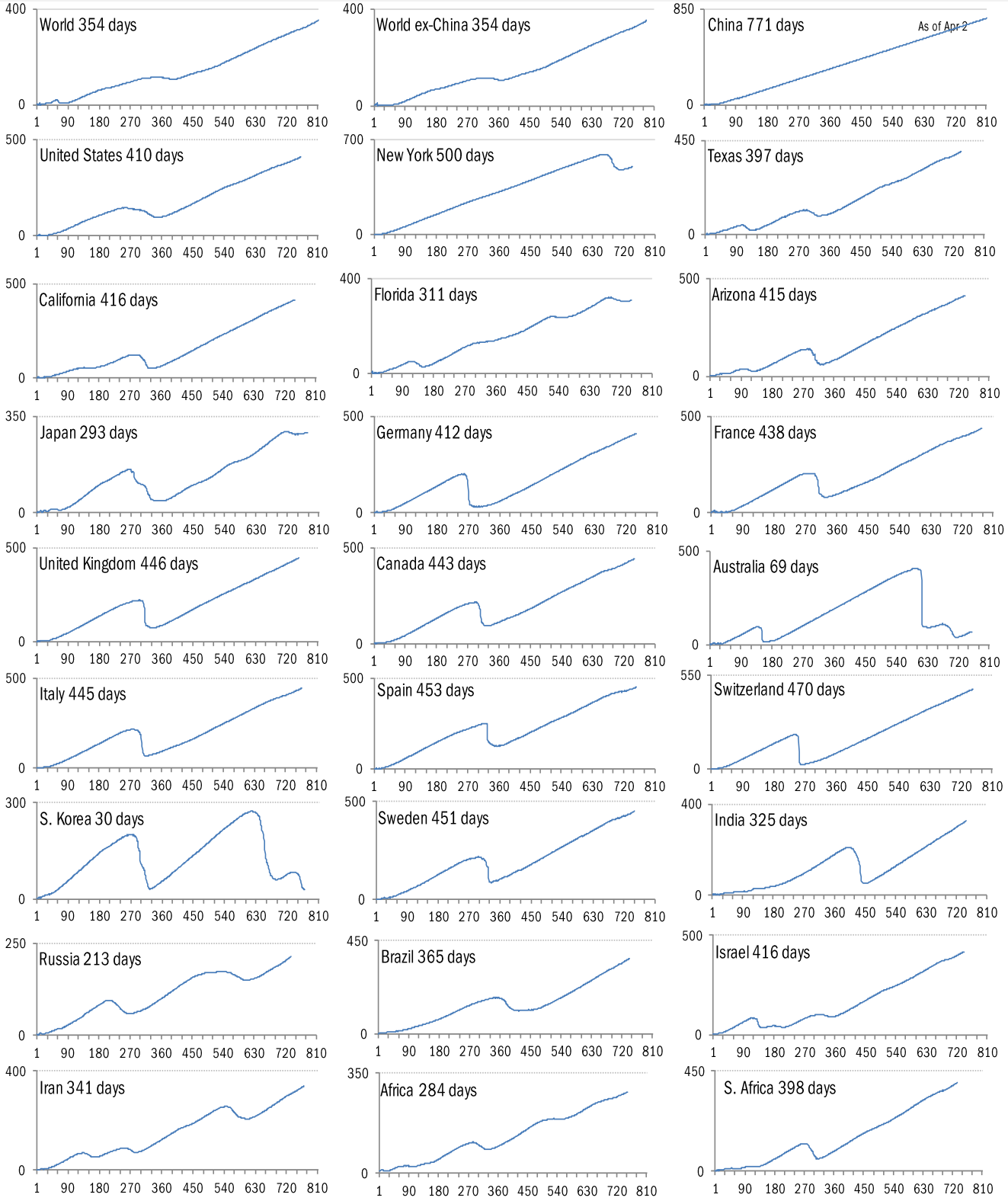


Source: Johns Hopkins, TrendMacro calculations

"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

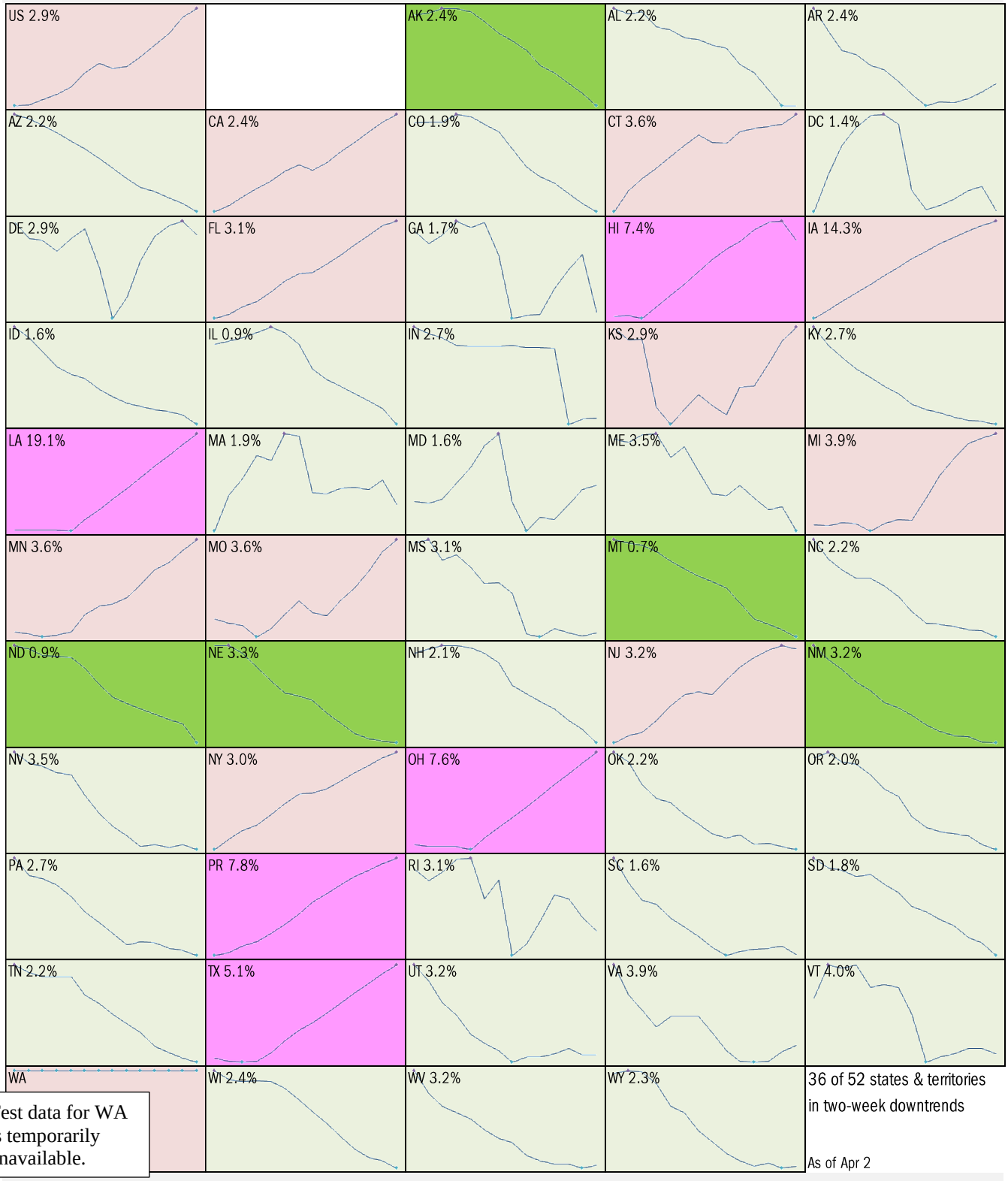
Downward trajectory Five best Upward trajectory Five worst

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

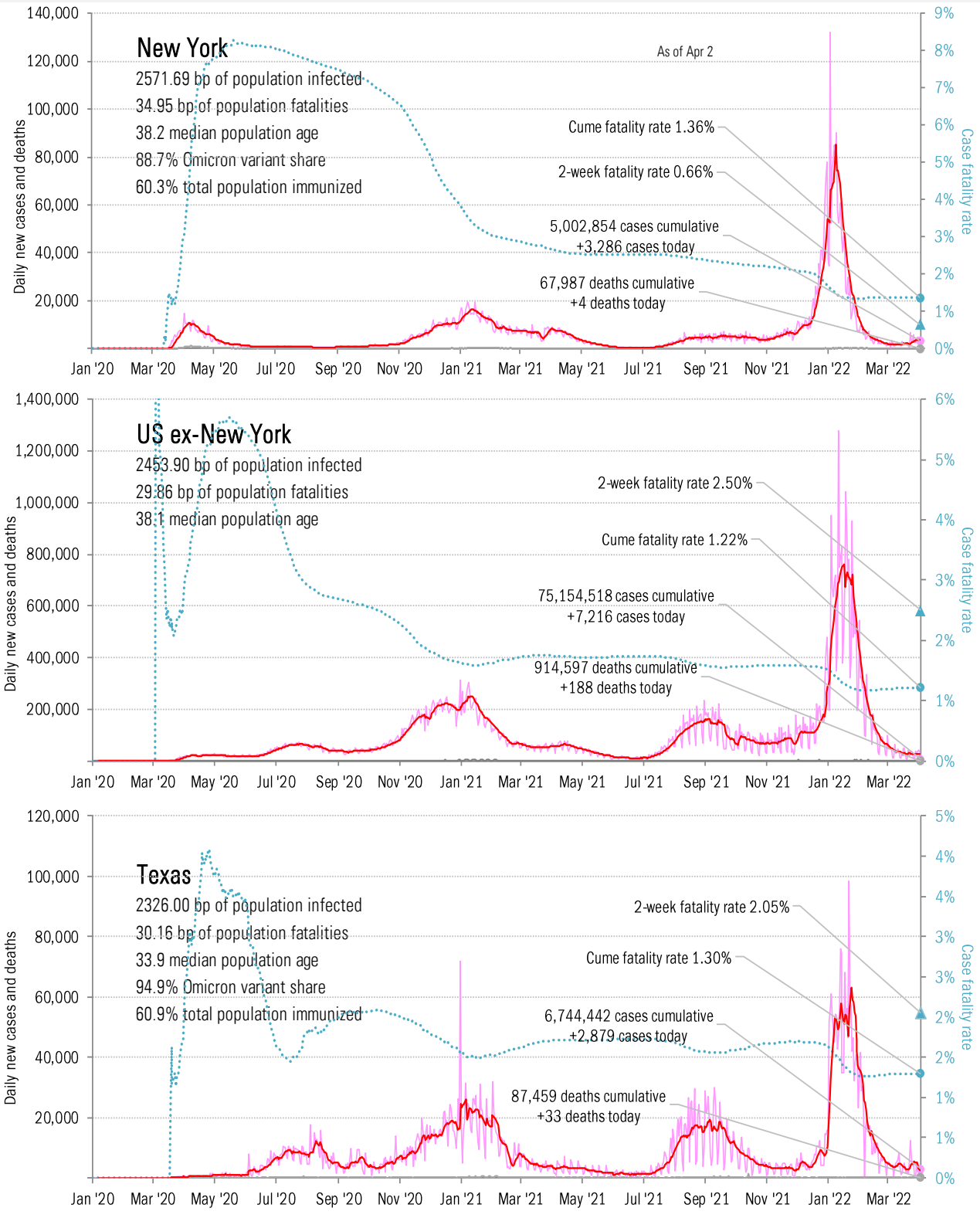


Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

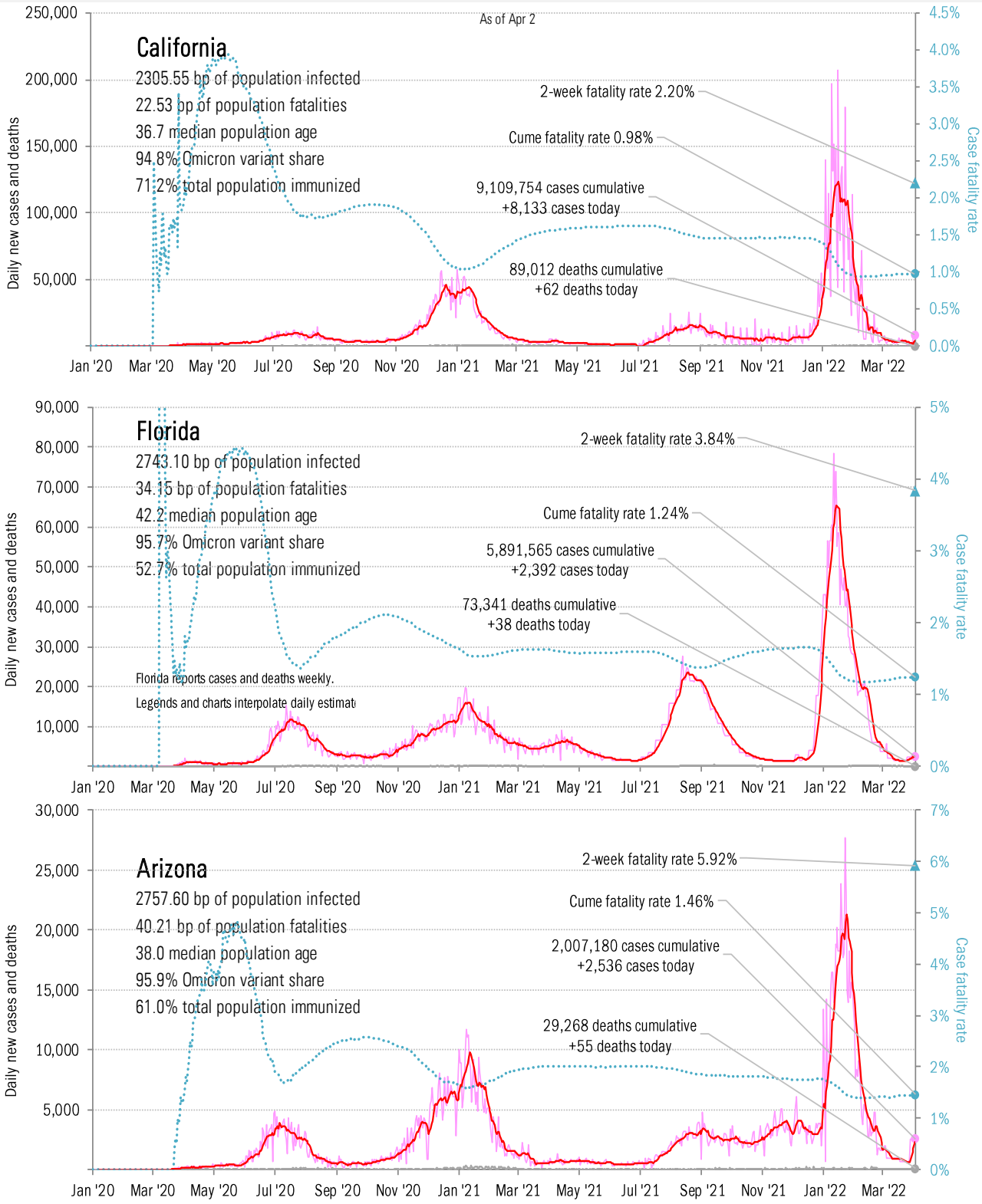
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

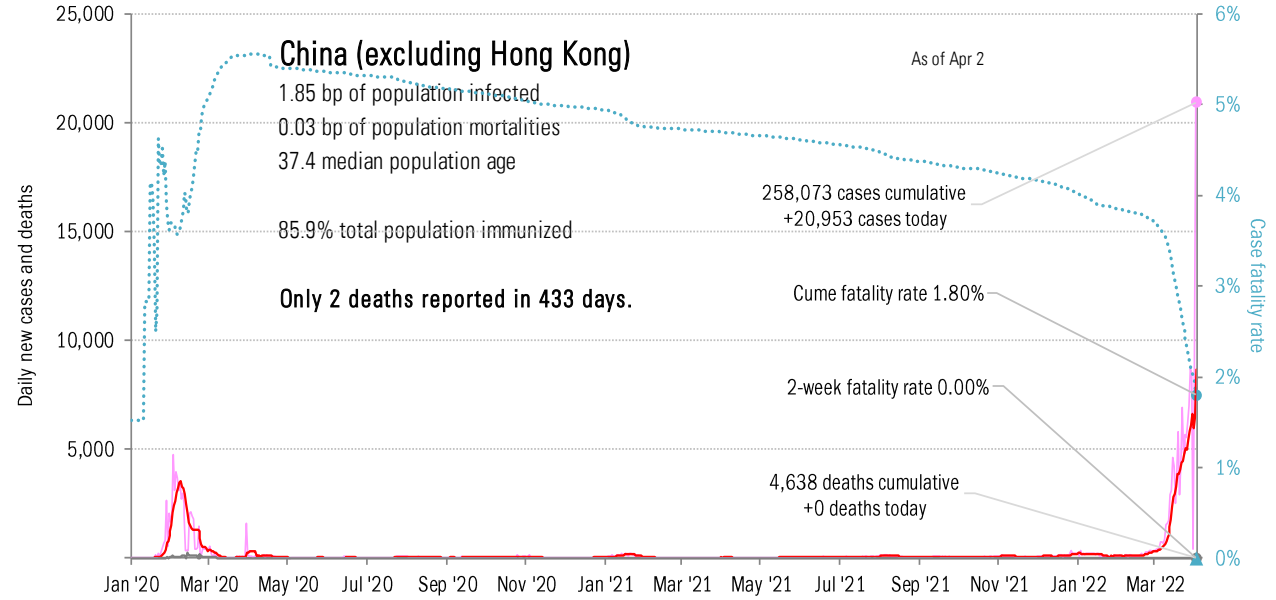
Cases: 7-day average and daily Deaths: Daily

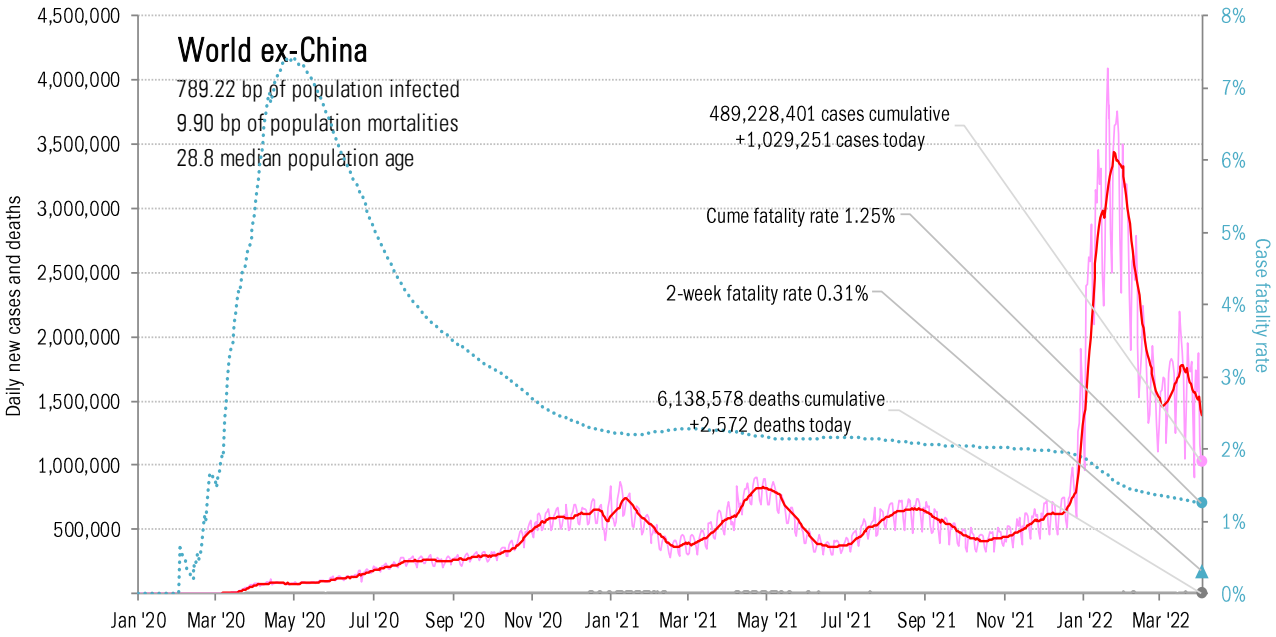


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

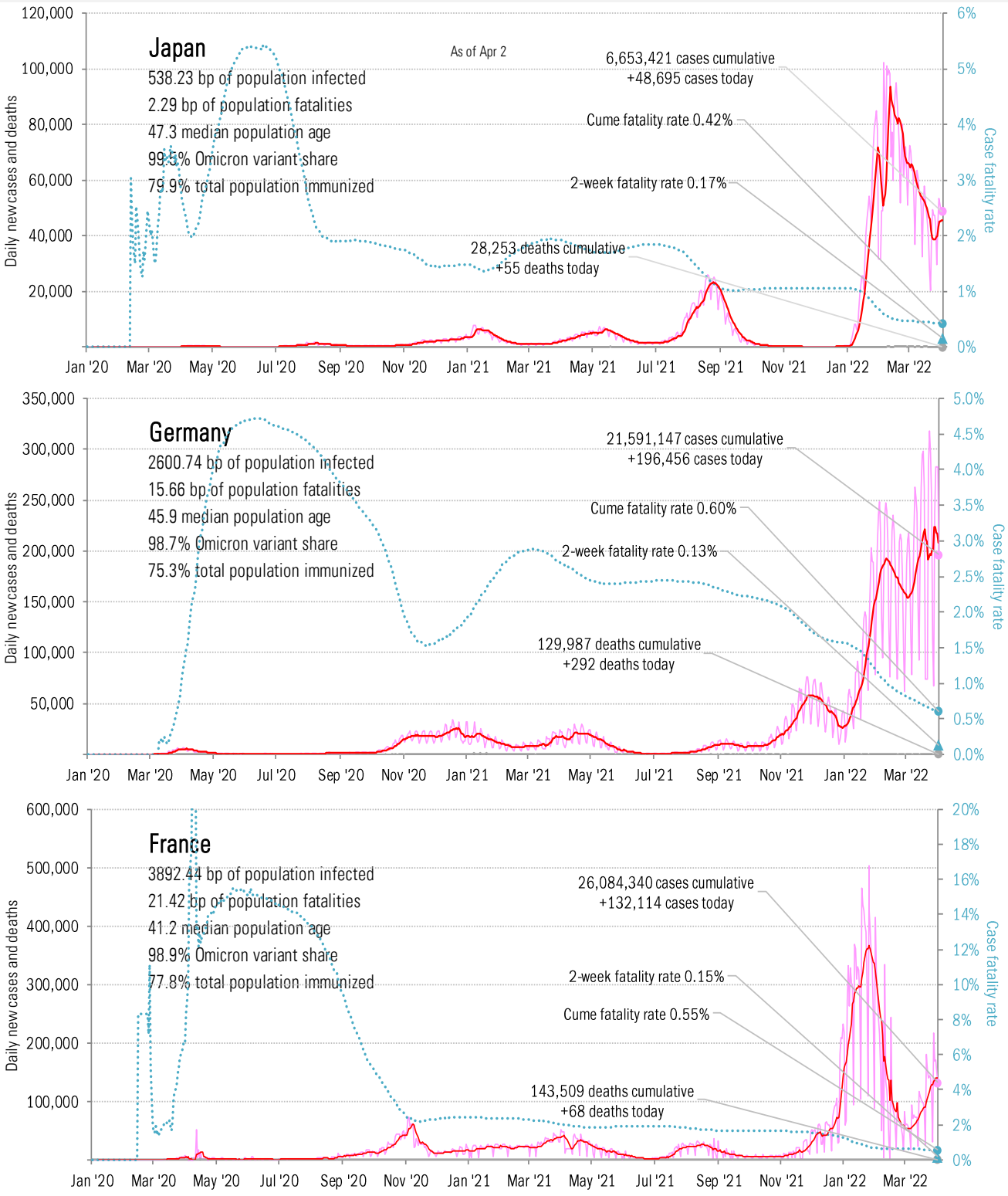




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

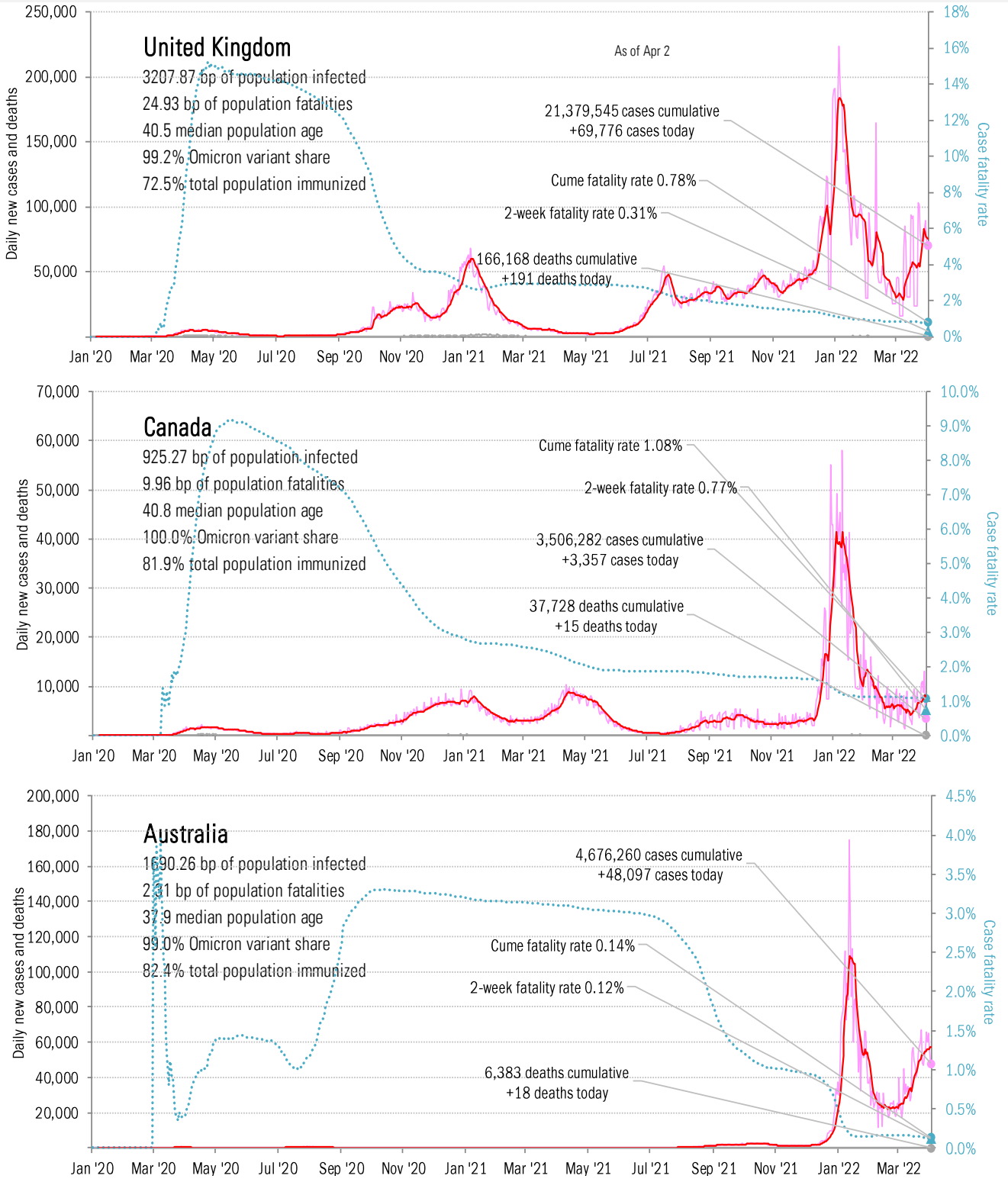
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

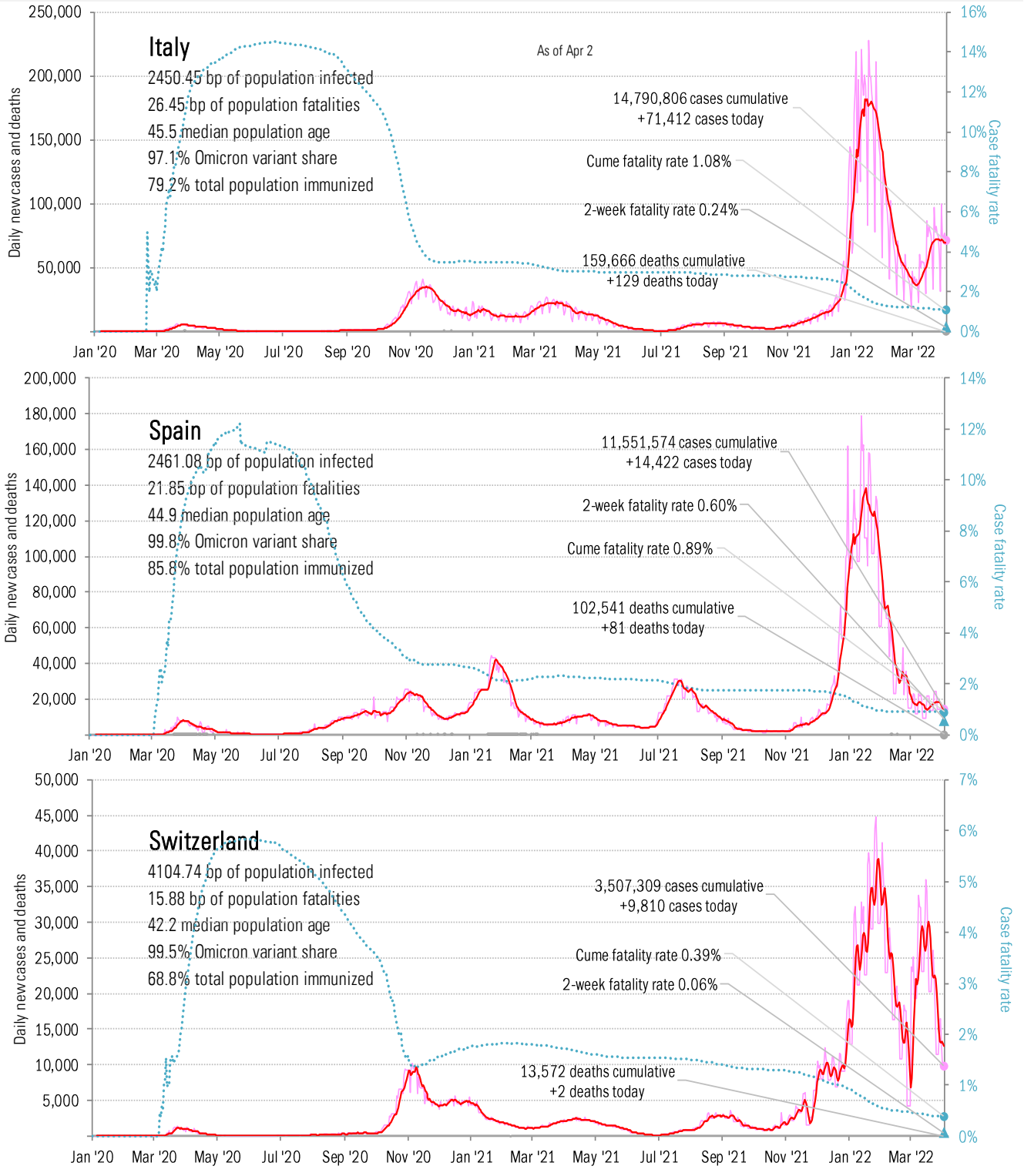
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

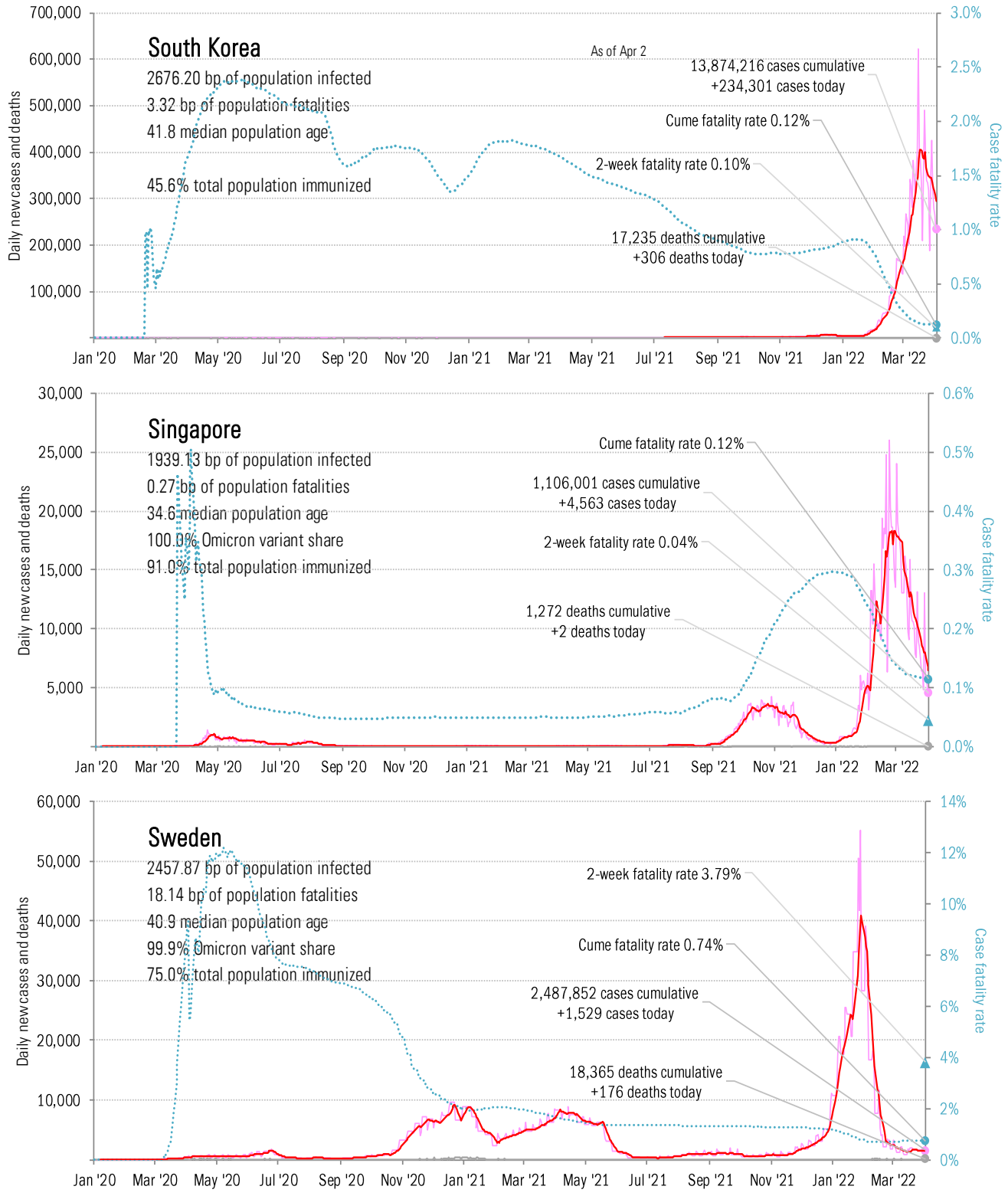
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

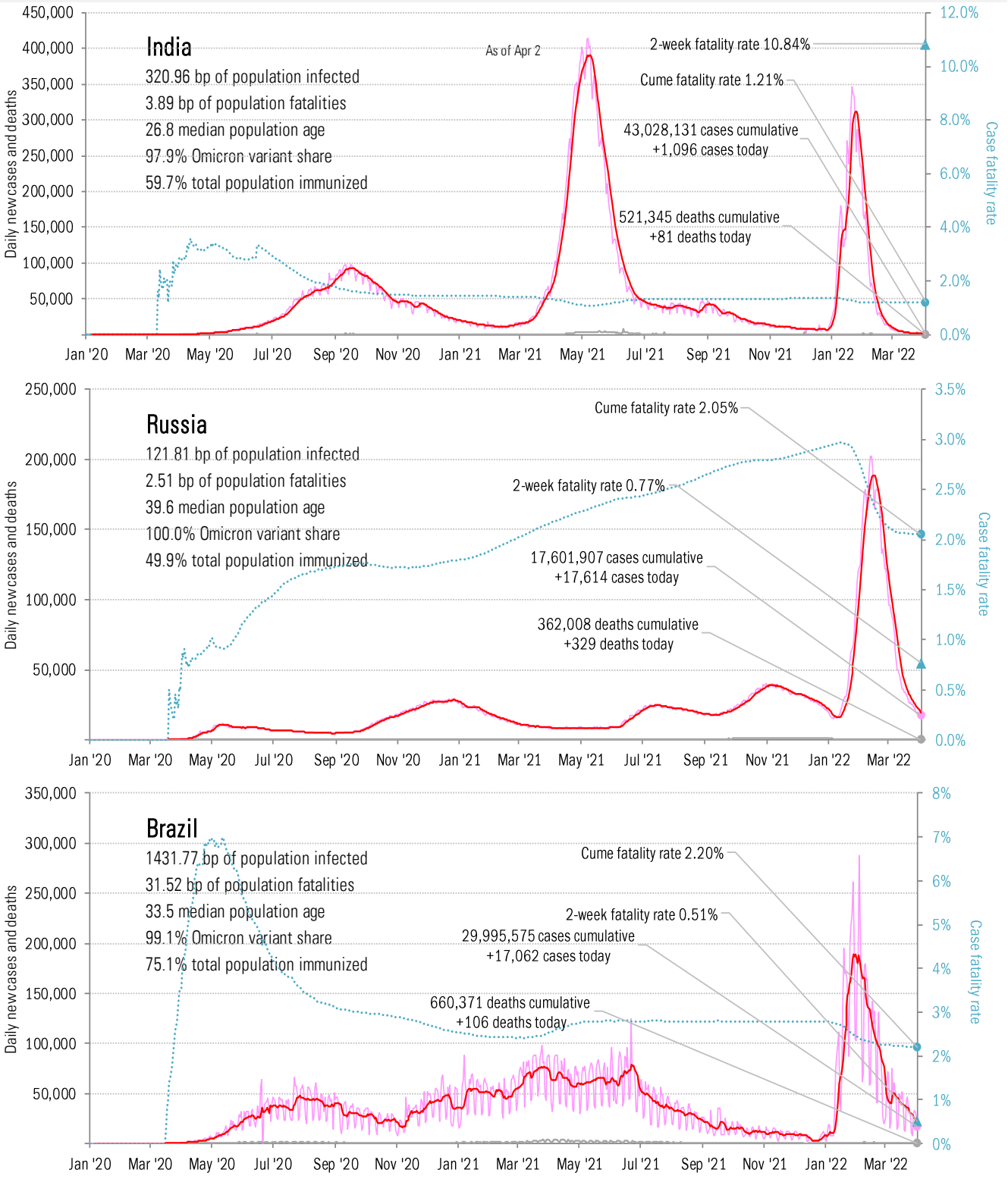
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

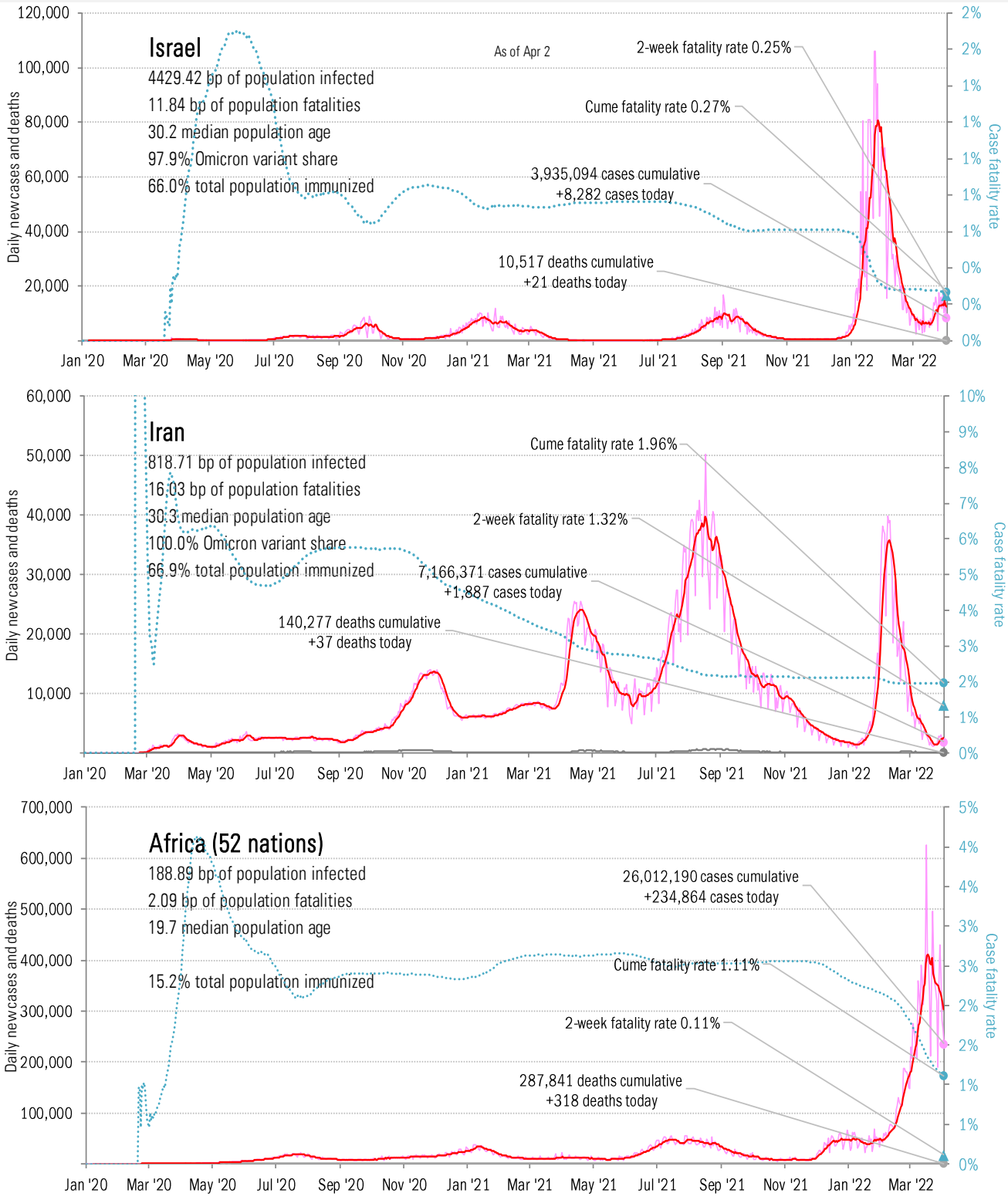
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

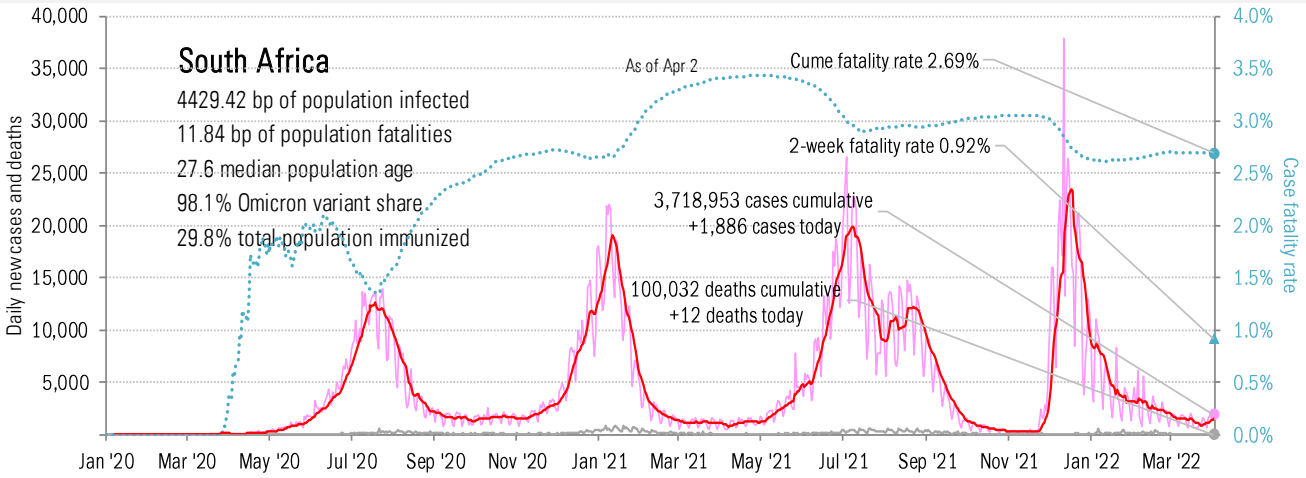
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations