Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

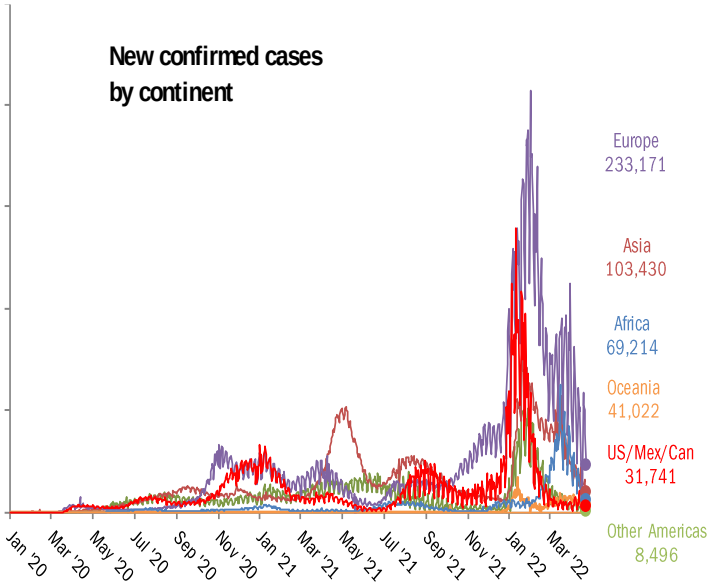
Sunday, April 24, 2022

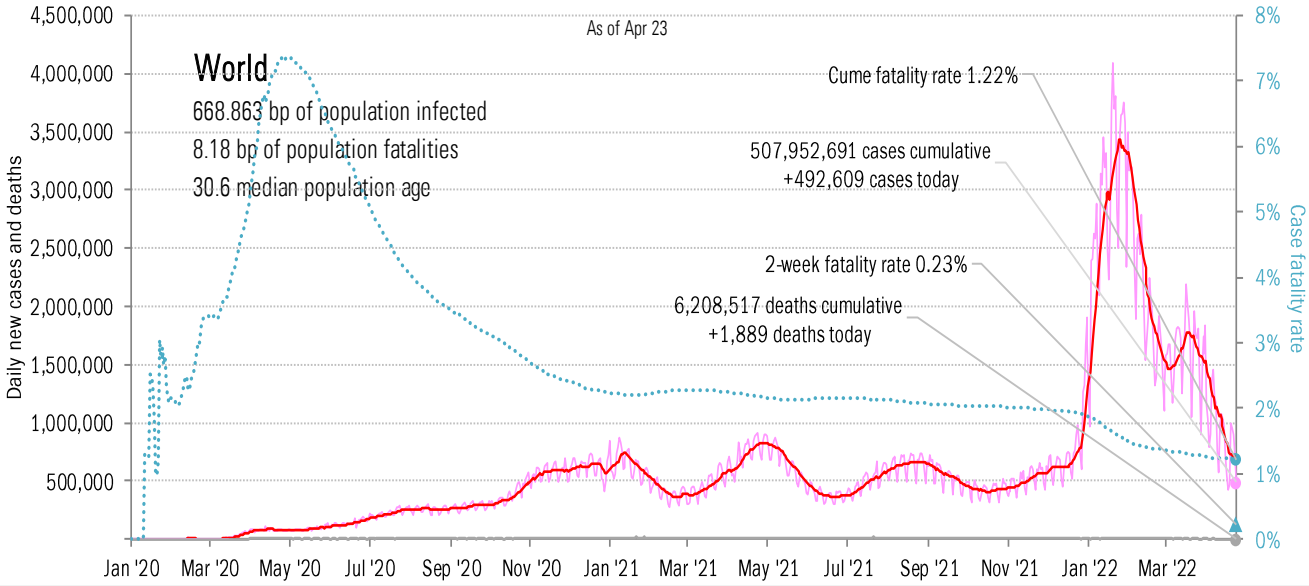
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
France	80,571	United States	524
Italy	71,028	Russia	167
Korea, South	64,725	Italy	143
Japan	43,892	Thailand	126
Germany	39,179	Korea, South	109
Australia	35,052	Mexico	87
United States	25,197	France	75
Thailand	17,784	Philippines	61
Portugal	10,584	Brazil	53
Vietnam	10,365	Canada	52
	398,377		1,397
World	492,609	World	1,889
Top ten	81%	Top ten	74%





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

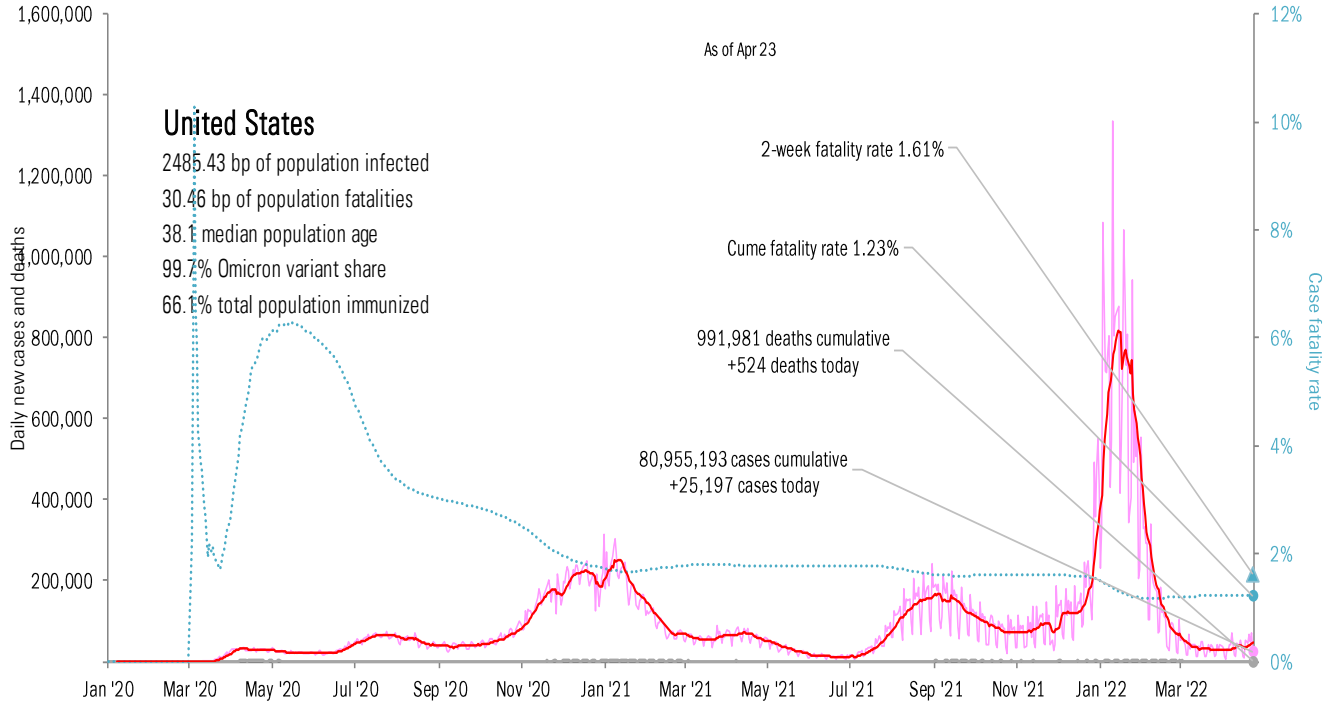
New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	5,196	FL	20	NY	274	CA	9,192,666	CA	90,014	TX	489,462	RI	89%	WA	83%
NY	5,050	PA	10	IL	96	TX	6,808,285	TX	88,018	CA	425,642	MA	85%	DE	83%
PR	4,482			MA	86	FL	5,923,305	FL	73,945	FL	415,849	WA	85%	KY	82%
NJ	2,532			PA	84	NY	5,118,596	NY	68,222	NY	249,115	MN	84%	VT	82%
TX	2,264			CA	155	IL	3,114,036	PA	44,602	GA	207,383	MD	83%	TX	82%
PA	1,997			NJ	85	PA	2,806,984	OH	38,360	OH	191,119	MO	82%	NM	80%
OK	614			VA	36	OH	2,688,327	GA	37,659	PA	176,739	DC	81%	RI	80%
IA	549			TX	114	NC	2,647,650	IL	36,001	IL	157,862	DE	81%	UT	80%
DC	510	ND	1	LA	26	GA	2,509,160	MI	35,935	MI	141,901	PA	81%	MA	80%
TN	455	AK	0	MI	77	MI	2,411,464	NJ	33,374	KY	133,052	WV	80%	DC	79%
	23,649		60		1,033		43,220,473		546,130		2,588,124				
All states	25,197		524		1,886	All states	80,955,193		991,981		4,699,356	All states	70%		67%
Top ten	94%		11%		55%	Top ten	53%		55%		55%	Median	75%		73%

US fatality data distorted today due to revisions.

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-17,786	CA	-162	FL	-50	IA	+10 bp
FL	-6,561	FL	-116	MO	-24	IN	+10 bp
IL	-3,807	TX	-45	WV	-20	MD	+10 bp
WA	-3,773	CO	-39	WA	-13	MI	+10 bp
NY	-3,425	VA	-25	NC	-7	MN	+10 bp



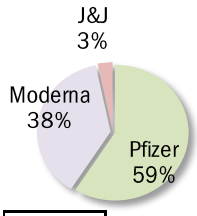
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	587,397,575				+0.280 million
Boosters	101,284,831				+0.051 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	264,931,568	79%	225,569,403	68%	+0.037 million
Age 12 to 17	17,687,178	70%	15,085,142	60%	+0.002 million
Age 18 to 64	178,241,023	88%	151,209,637	74%	+0.017 million
Age 65 and over	58,759,218	100%	51,038,893	93%	+0.013 million

Immunity	Full	Partial
US	66.1%	77.5%
UK	72.8%	77.8%
France	77.9%	80.2%
Spain	86.4%	88.1%
Germany	75.4%	76.0%
Italy	79.3%	84.1%
Australia	83.3%	86.3%
Israel	66.0%	72.2%
Canada	82.1%	87.6%
Japan	80.3%	81.7%
Africa	16.2%	21.3%
India	60.8%	71.7%
Brazil	76.3%	85.2%
China	86.3%	88.8%

Global data differs due to sources, timing



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

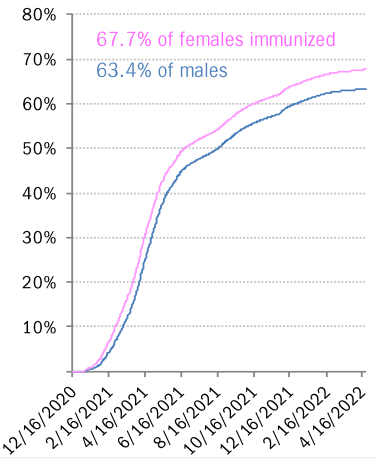
Best
Middle
Worst

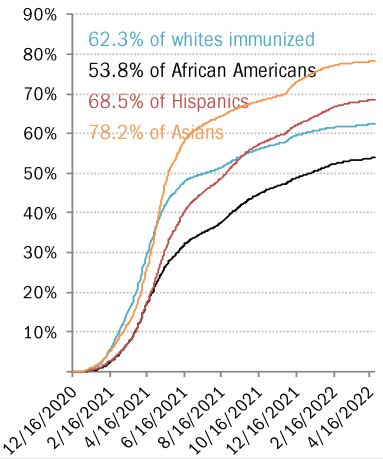
"Immunity" = two doses

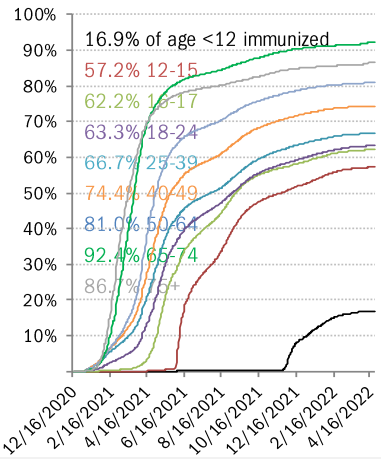
As of Apr 23

					WI					ME
					71.7%					90.2%
					65.5%					79.4%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
80.7%	61.0%	65.1%	64.8%	75.0%	76.5%	66.9%		90.0%	93.3%	87.8%
72.5%	54.0%	56.7%	54.9%	69.1%	68.5%	60.1%		76.8%	81.0%	70.0%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
77.8%	75.1%	58.7%	76.3%	67.9%	61.4%	63.5%	84.7%	90.2%	95.0%	
69.5%	60.7%	51.5%	61.2%	61.9%	54.8%	58.3%	68.2%	75.5%	78.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
83.5%	72.0%	79.2%	70.2%	66.1%	66.1%	64.9%	85.5%	86.3%	95.0%	95.0%
71.9%	64.2%	70.1%	63.5%	56.0%	57.3%	57.5%	73.0%	75.5%	79.0%	82.3%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	72.9%	87.4%	74.4%	66.5%	62.1%	83.9%	67.3%	95.0%	82.9%	
	61.4%	70.9%	61.3%	54.3%	54.4%	60.8%	56.6%	73.9%	68.9%	
			OK	LA	MS	AL	GA			
			71.0%	60.9%	59.5%	62.6%	65.3%			
			57.1%	53.4%	51.7%	51.0%	54.6%			
HI			TX					FL		PR
87.3%			72.9%					79.1%		94.8%
78.1%			61.3%					66.8%		82.9%

The demographics of US vaccination



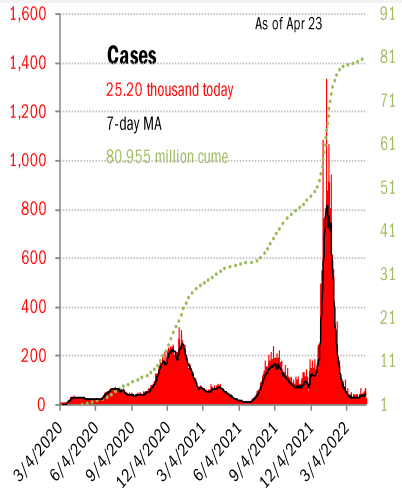


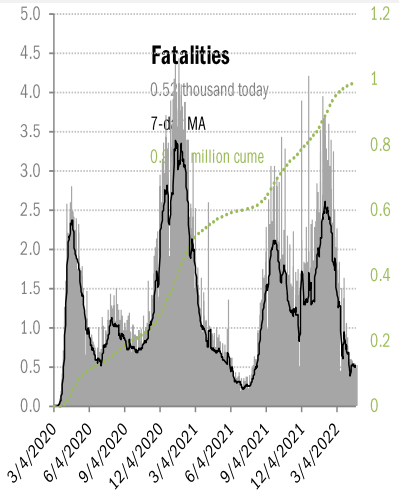


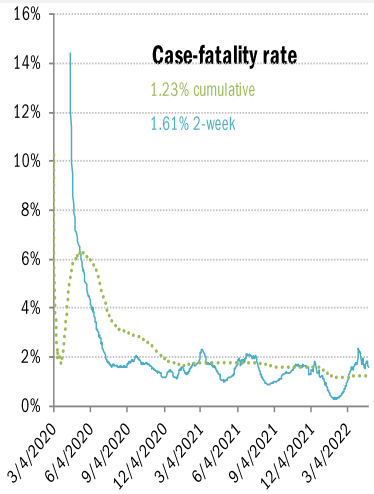
Source: CDC, CDC, Our World in Data, TrendMacro calculations

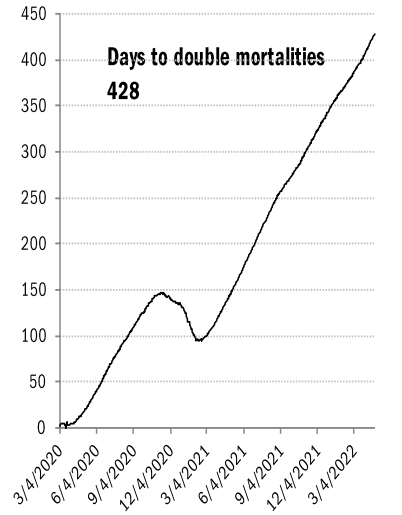
US deep-dive

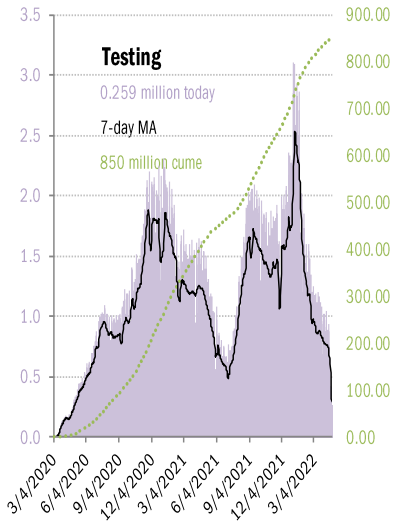
National and state-by-state data do not line up because of different sources

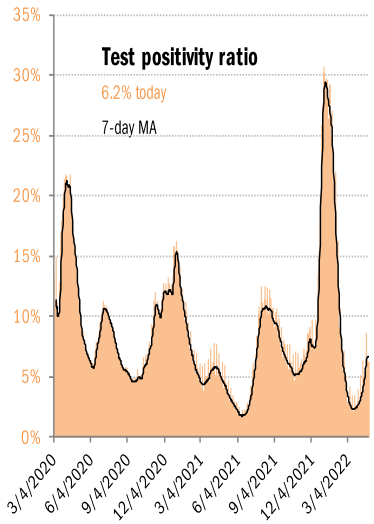


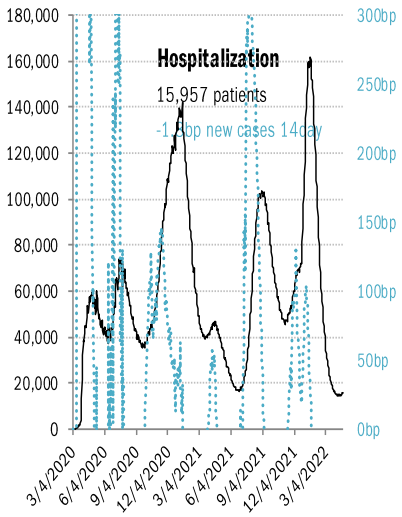


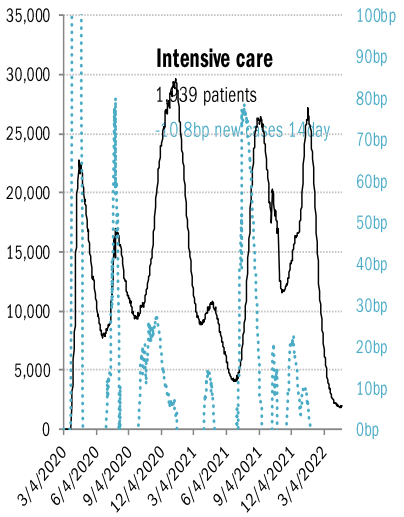


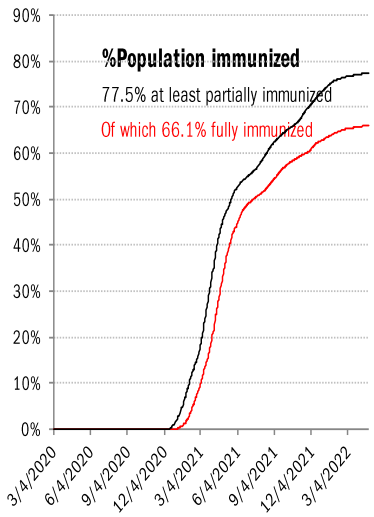










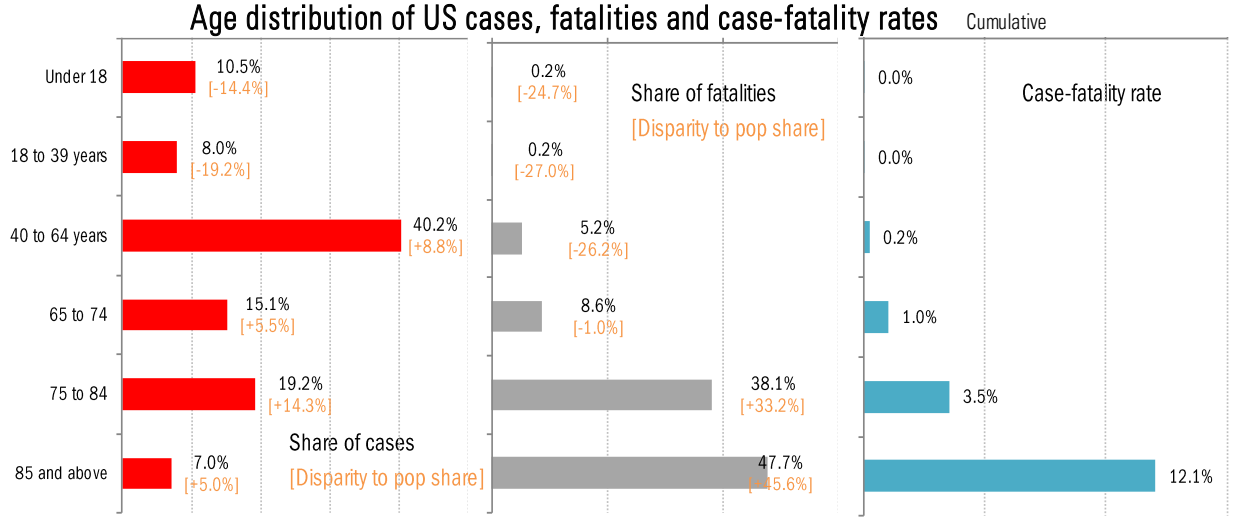


Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

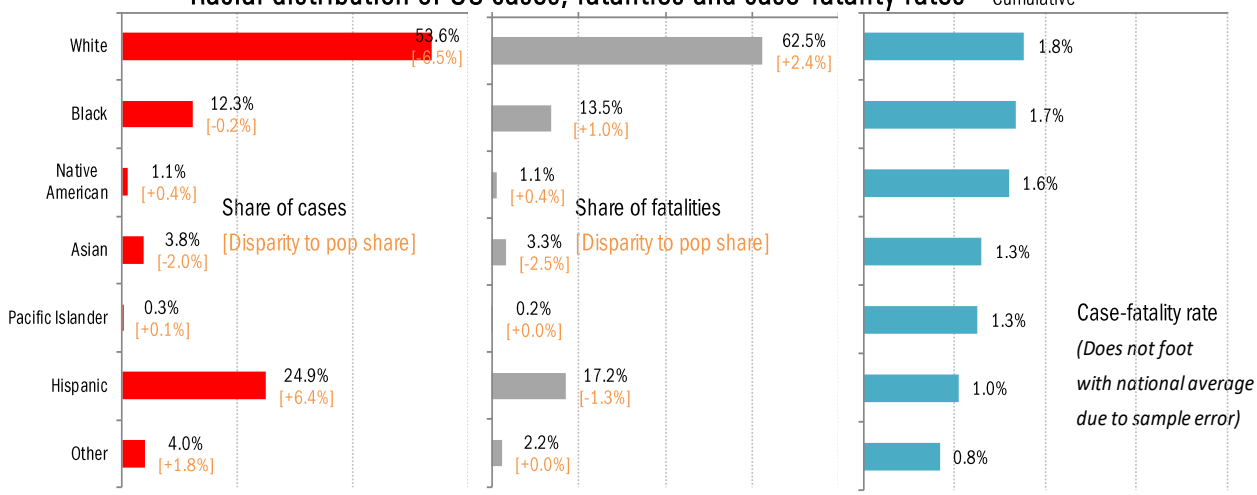
US deep-dive: demographics of age, race and health

Updates weekly on Sunday, 1 week lag

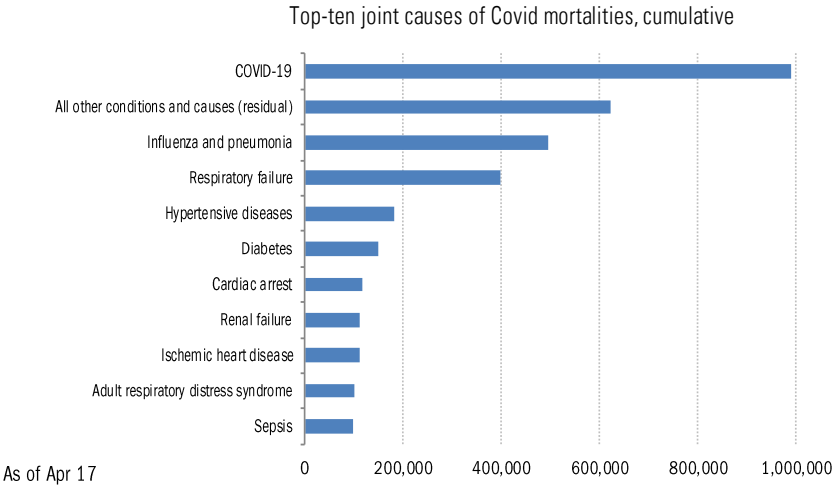
Age distribution of US cases, fatalities and case-fatality rates



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



Comorbidities



As of Apr 17

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

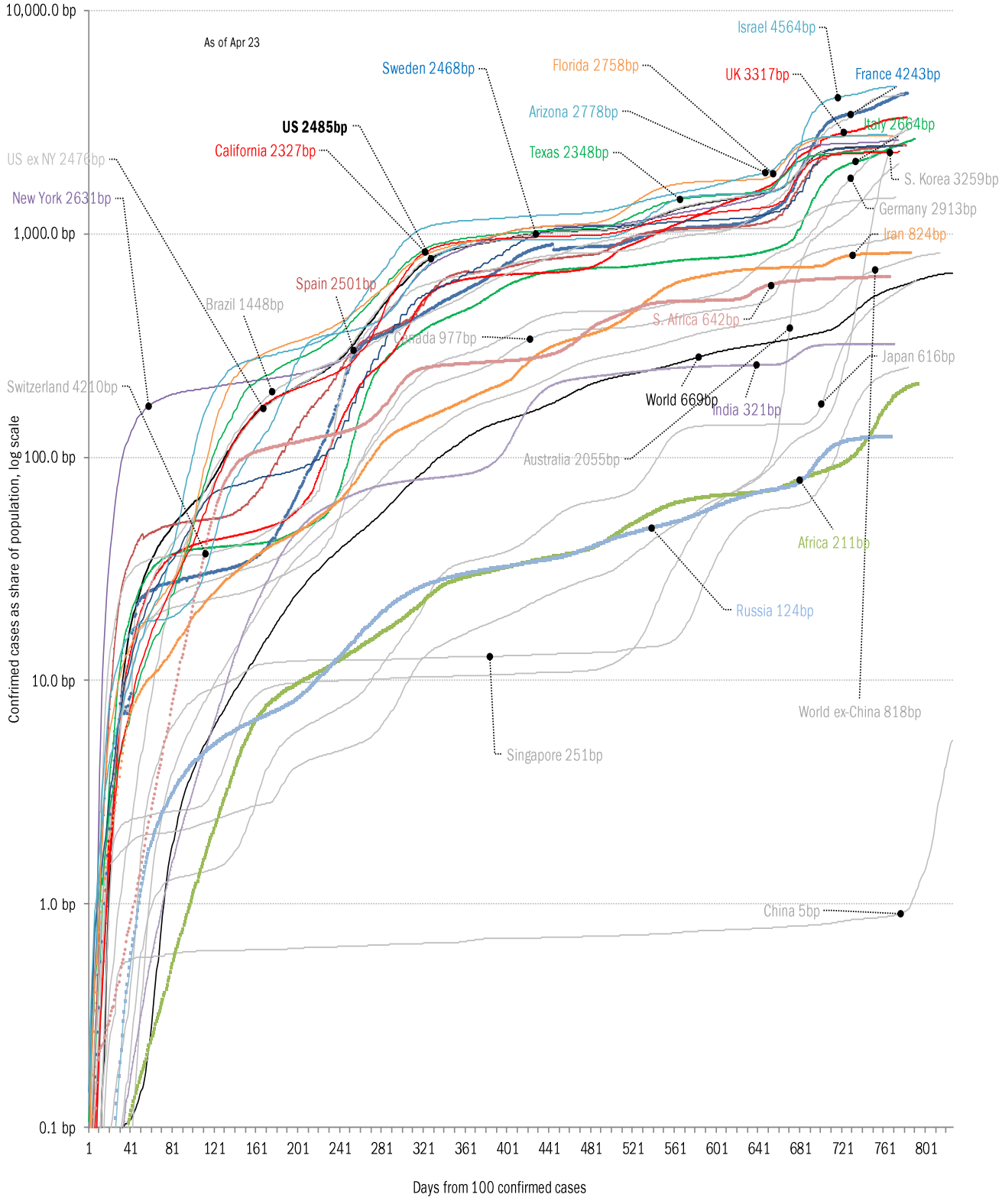
Why Did the Chinese Government Not Prioritize Vaccinating the Elderly?
Jim Geraghty
National Review
April 23, 2022

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

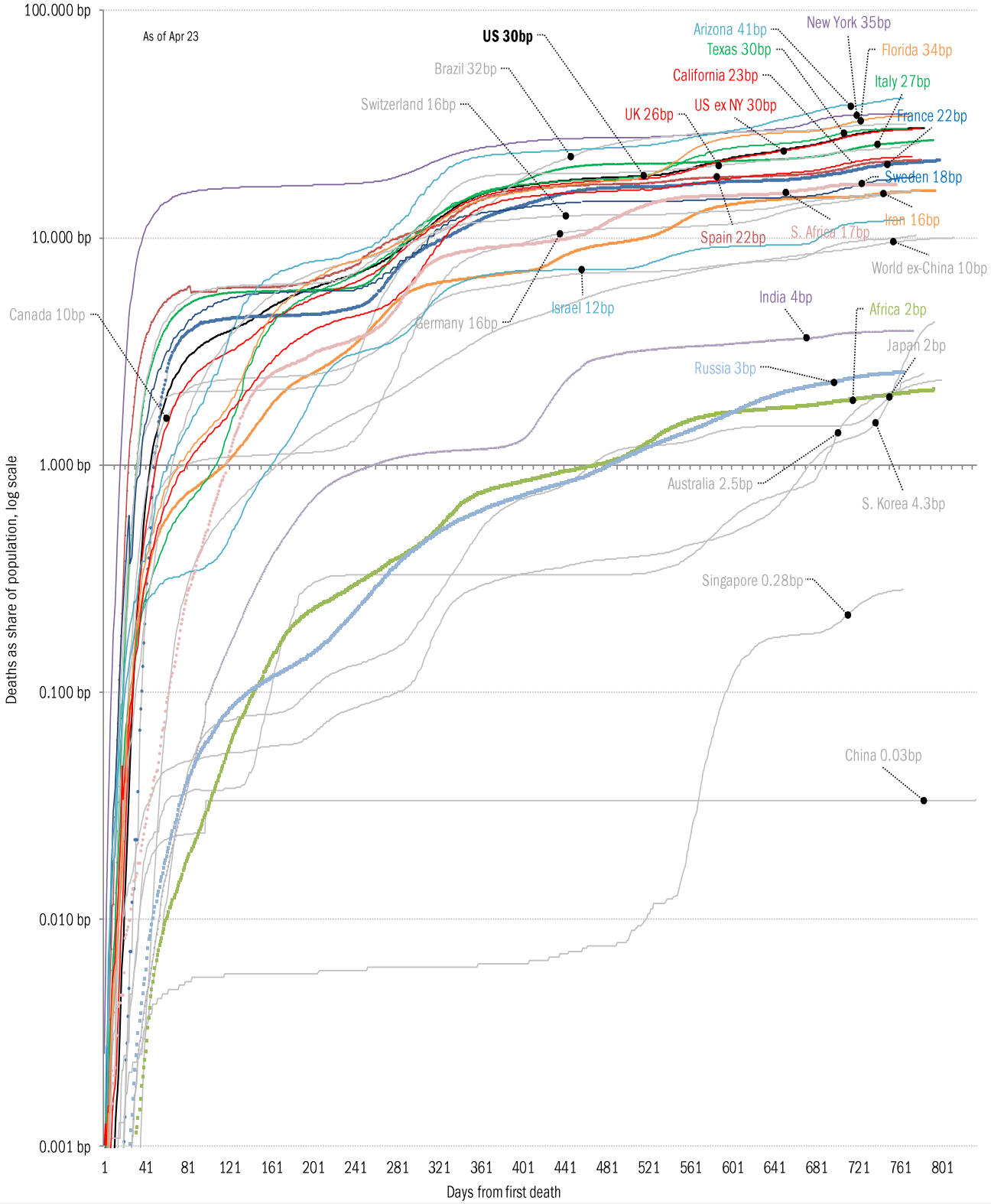
Share of infected population from first day with 100 confirmed cases, log scale



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

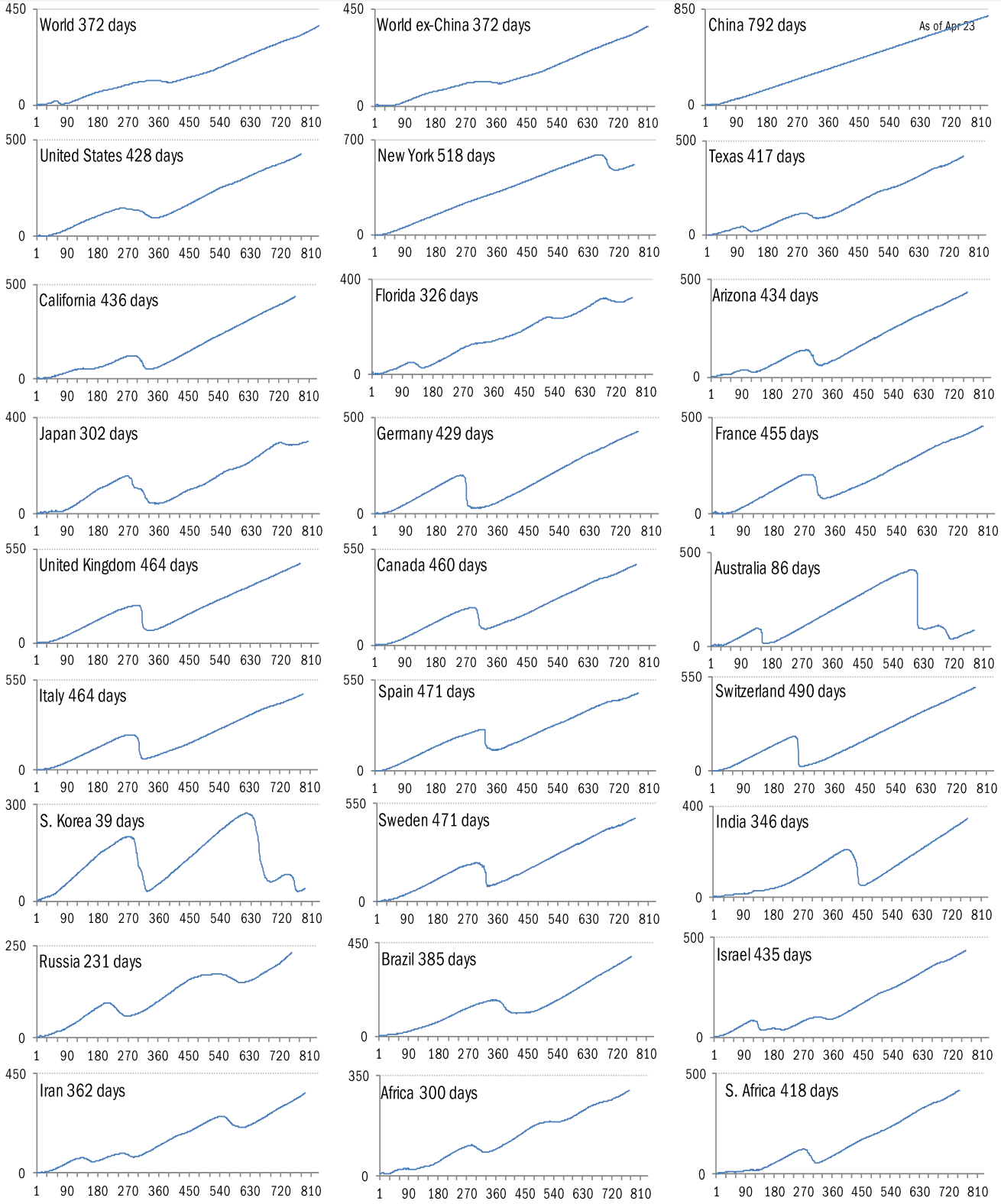


Source: Johns Hopkins, TrendMacro calculations

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

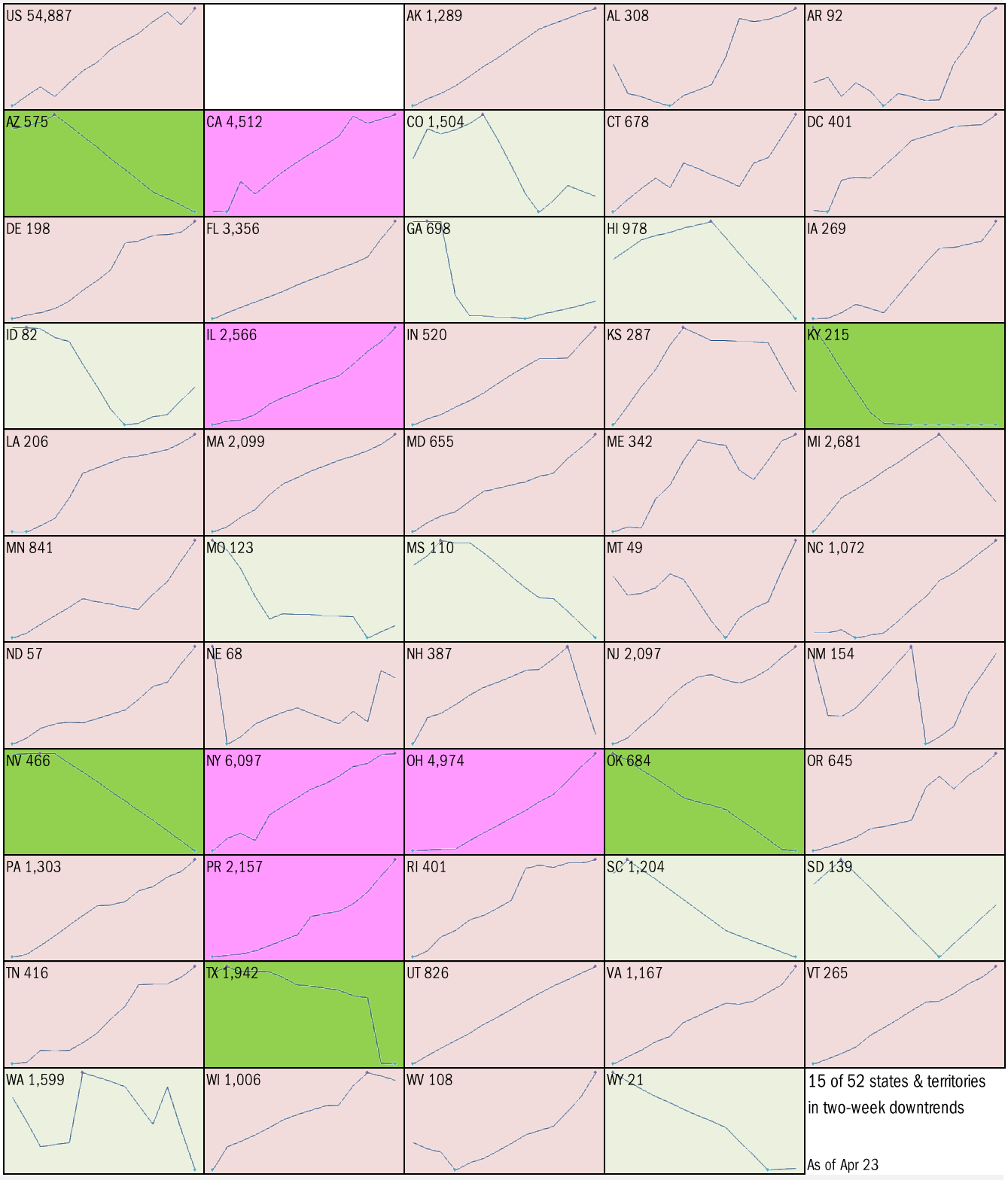


Source: Johns Hopkins, TrendMacro calculations

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

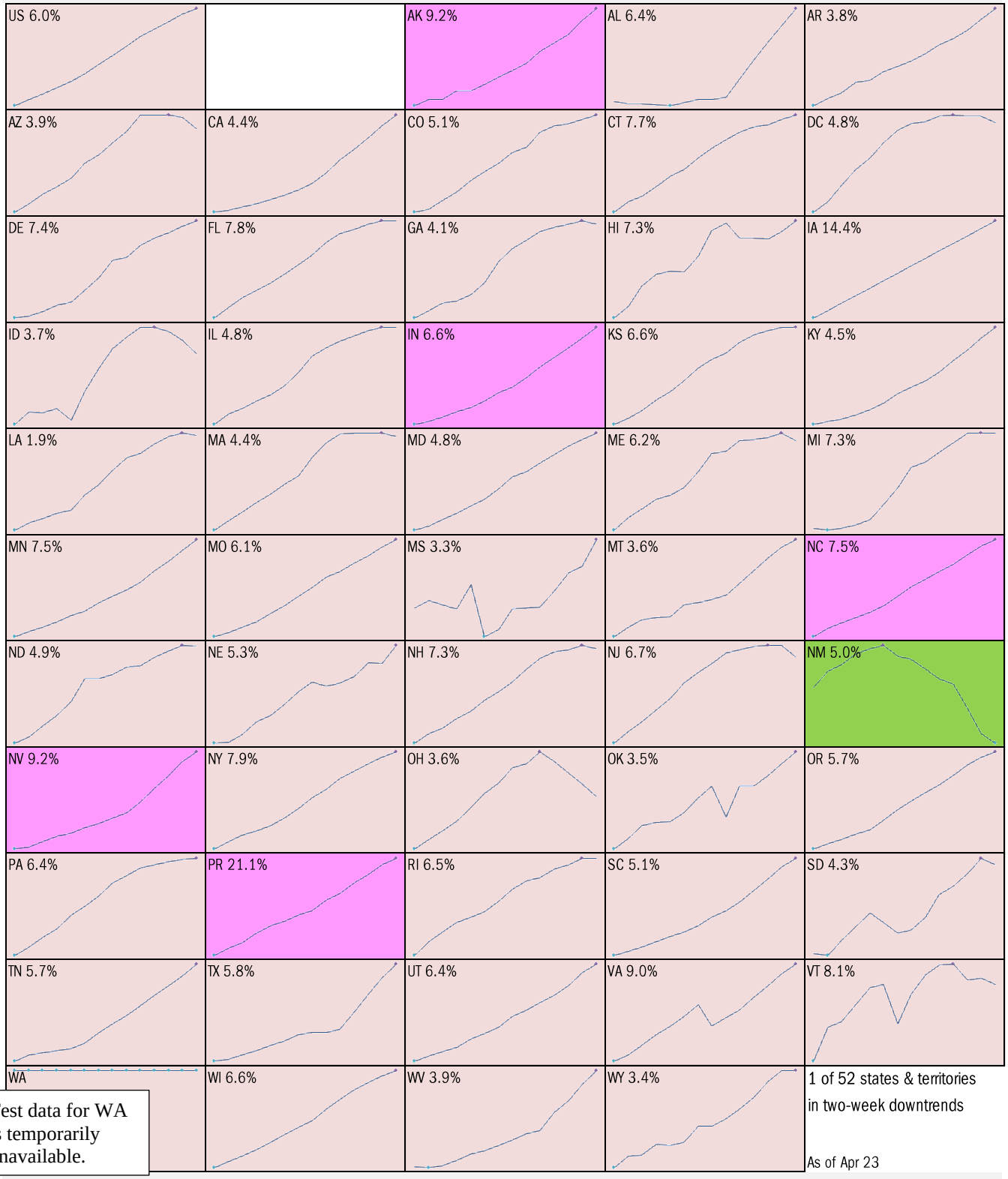


Source: Johns Hopkins, TrendMacro calculations

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

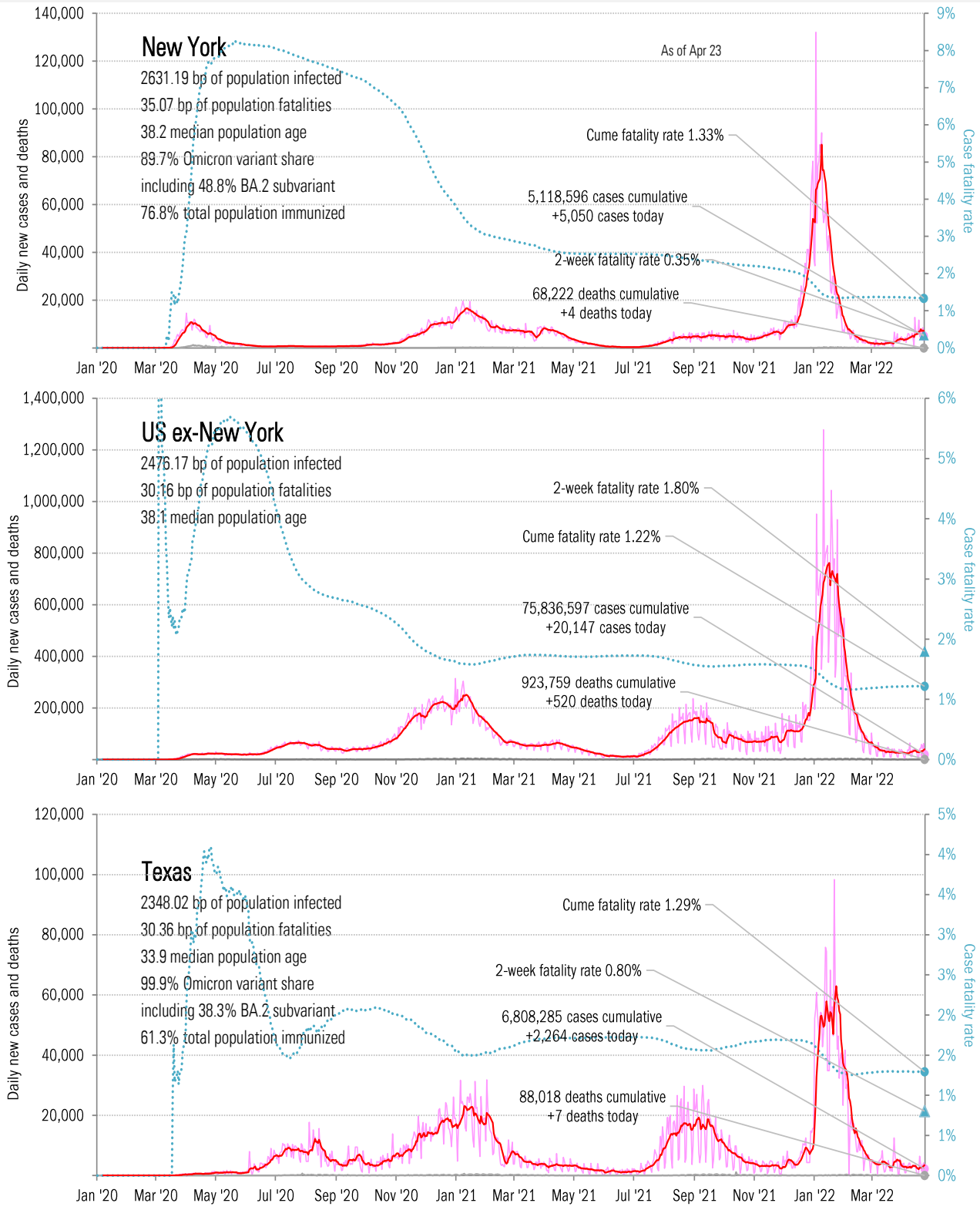


Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

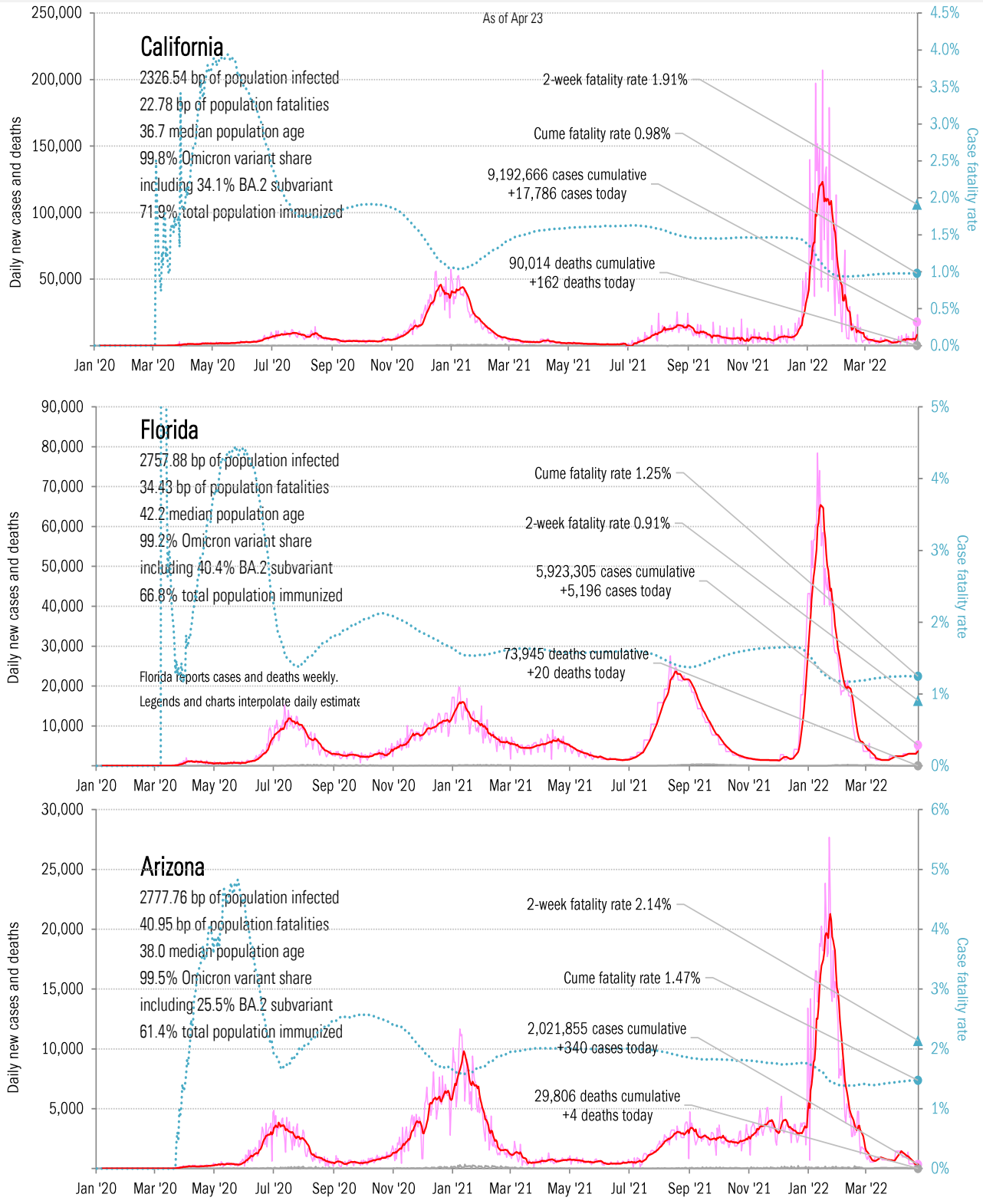
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

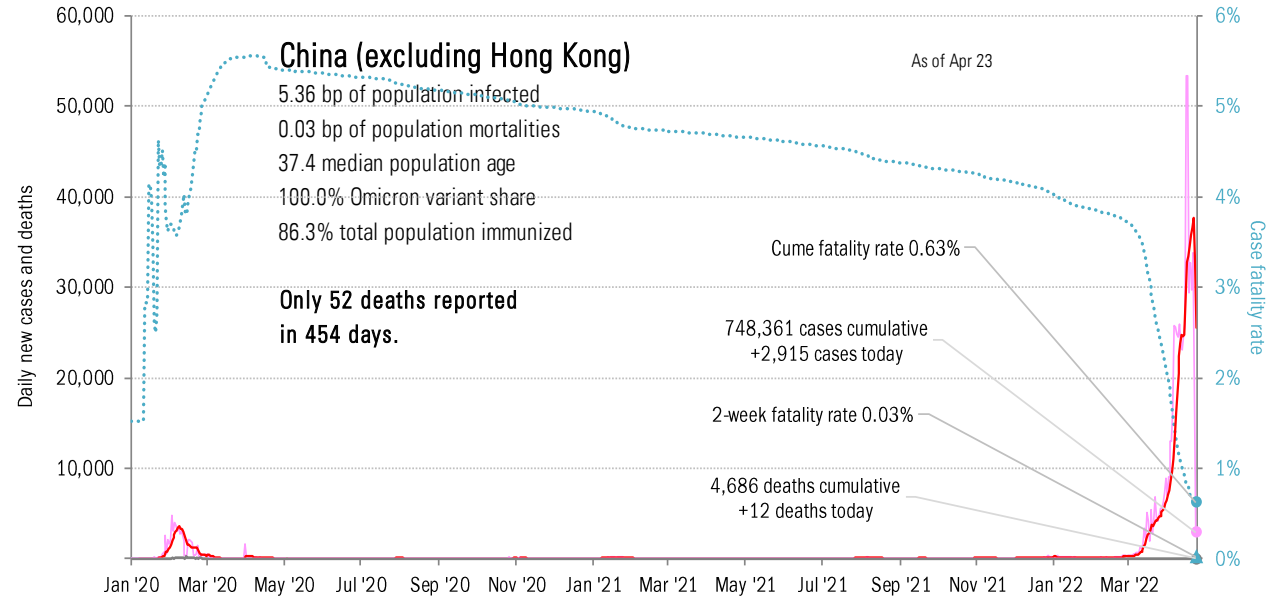
Cases: 7-day average and daily Deaths: Daily

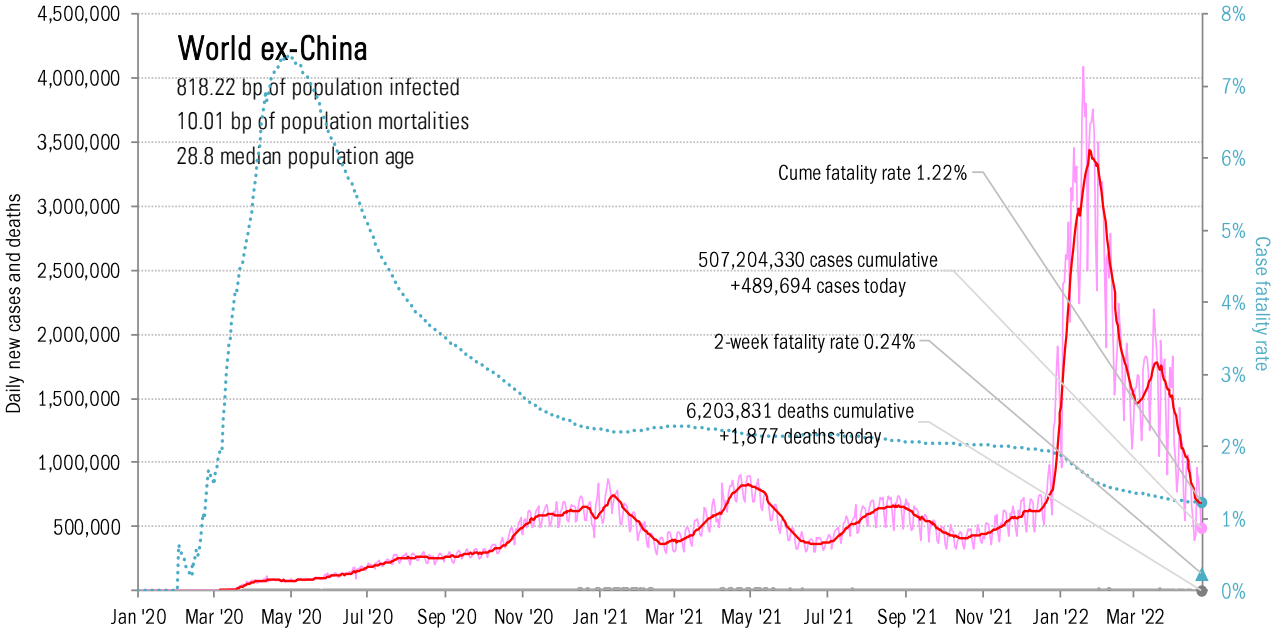


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

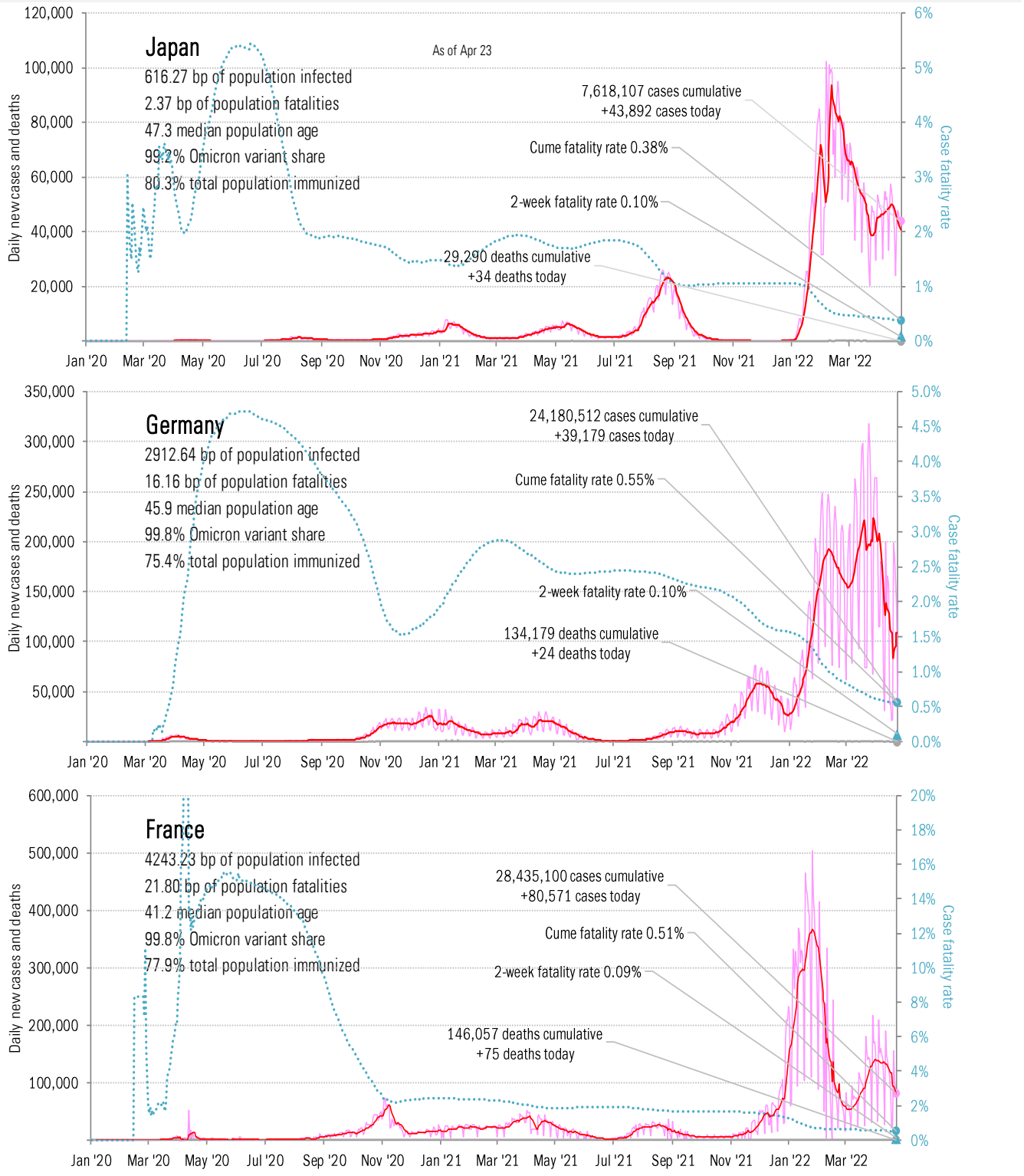




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

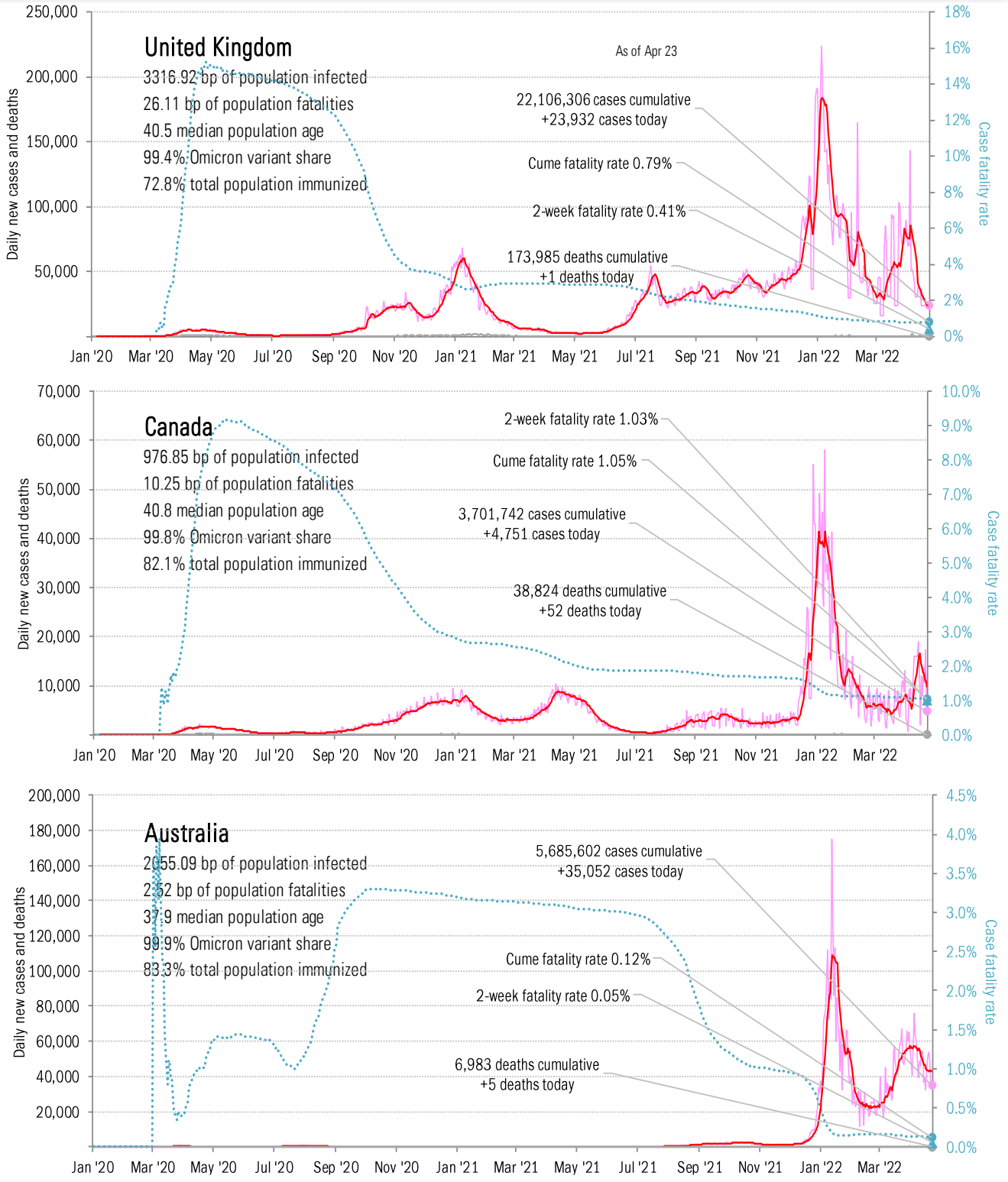
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

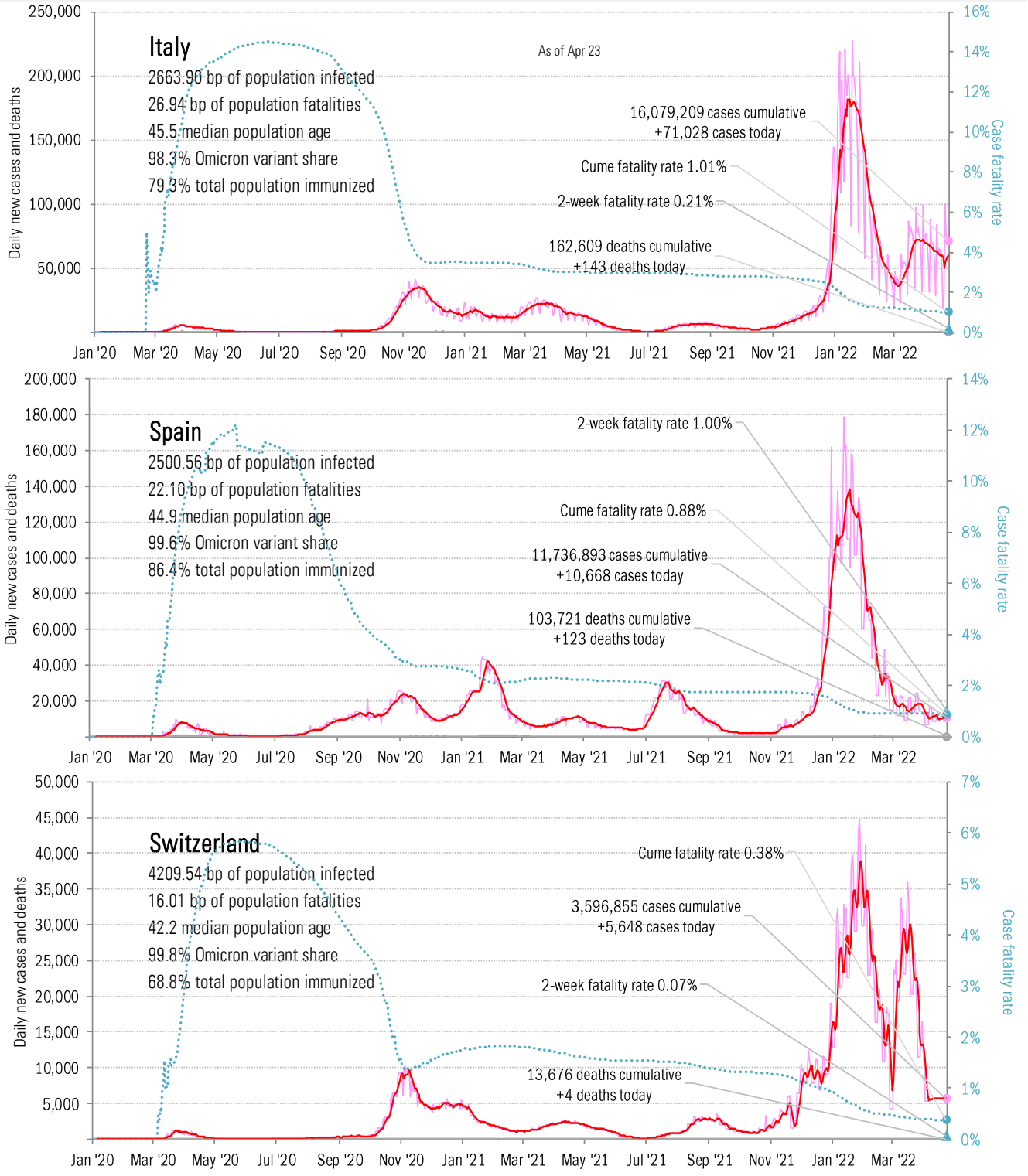
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

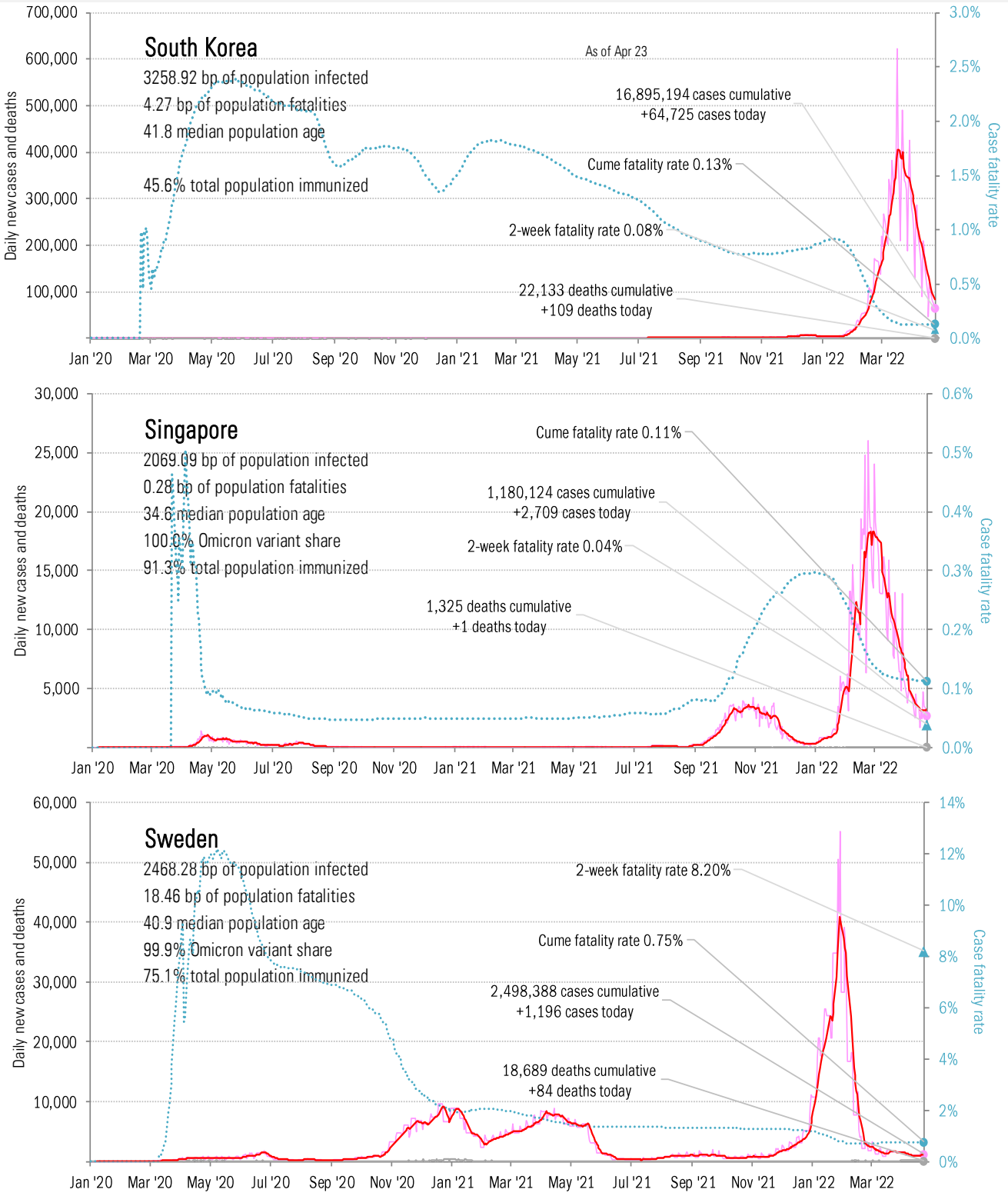
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

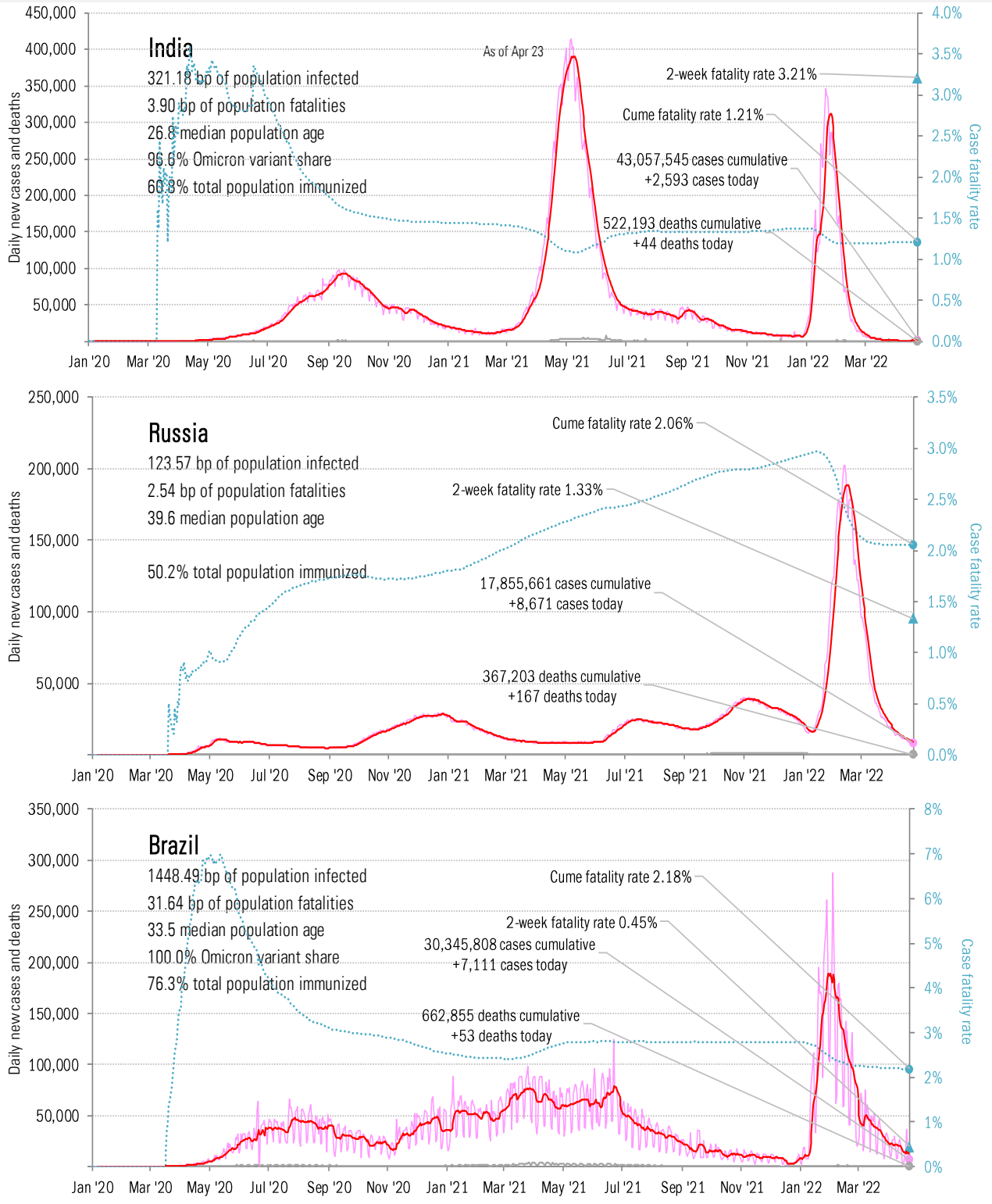
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

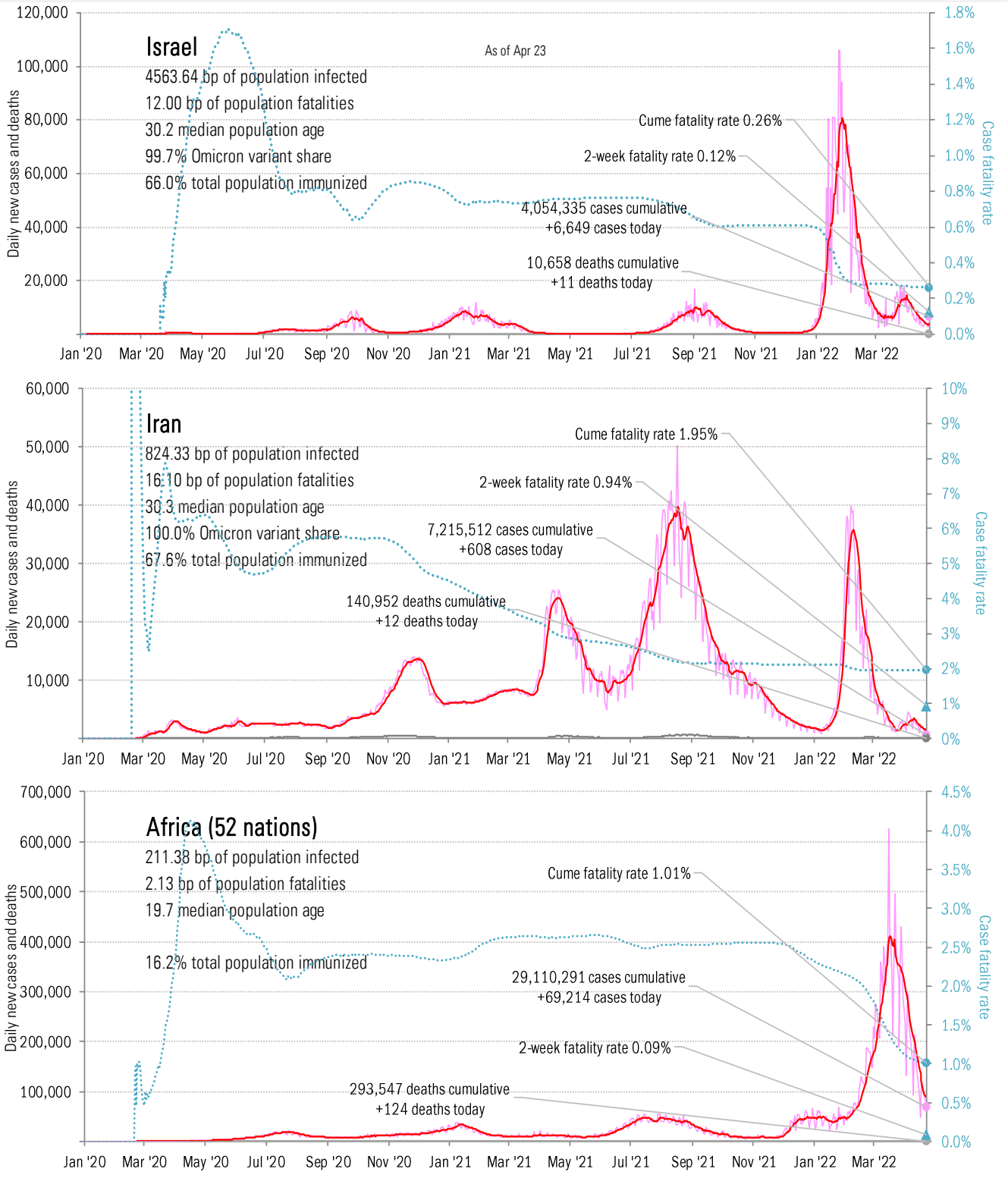
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

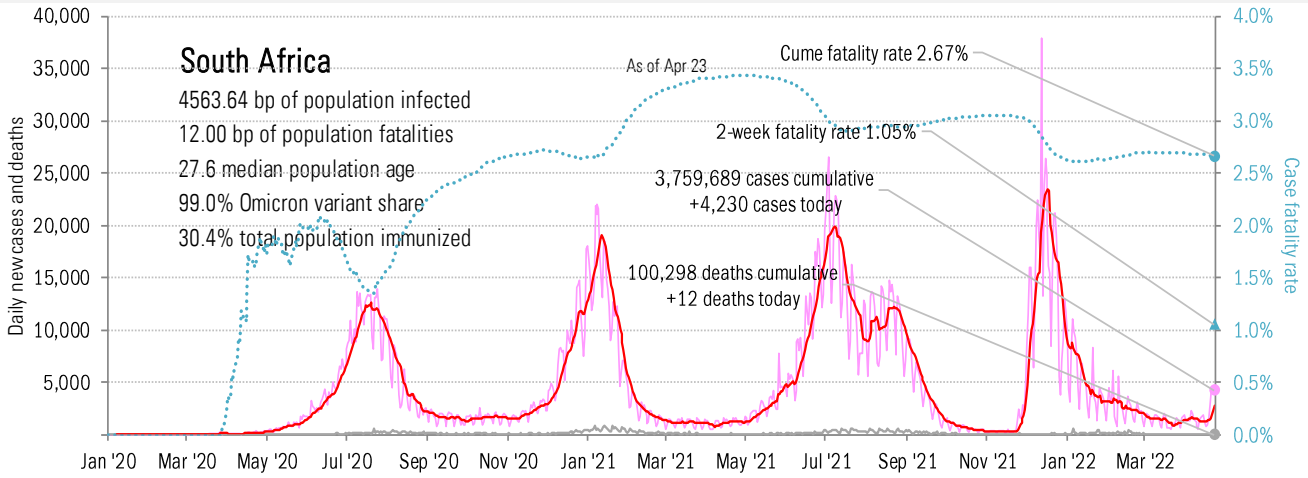
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations