Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

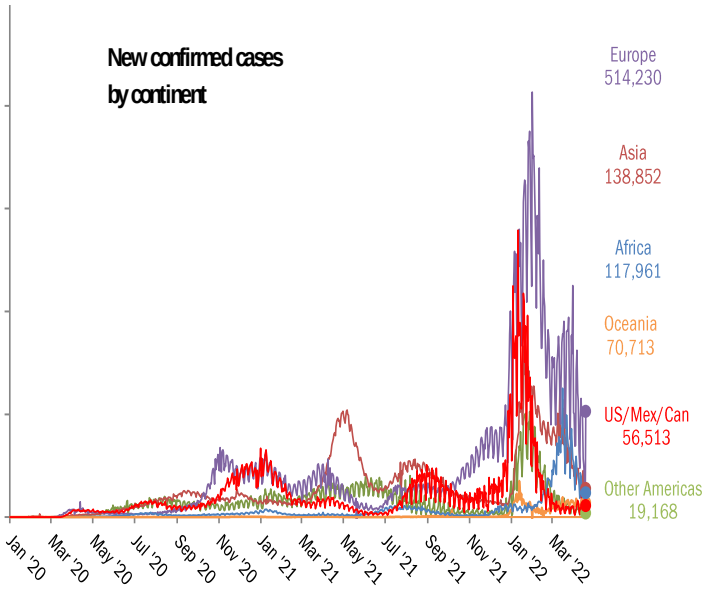
Wednesday, April 20, 2022

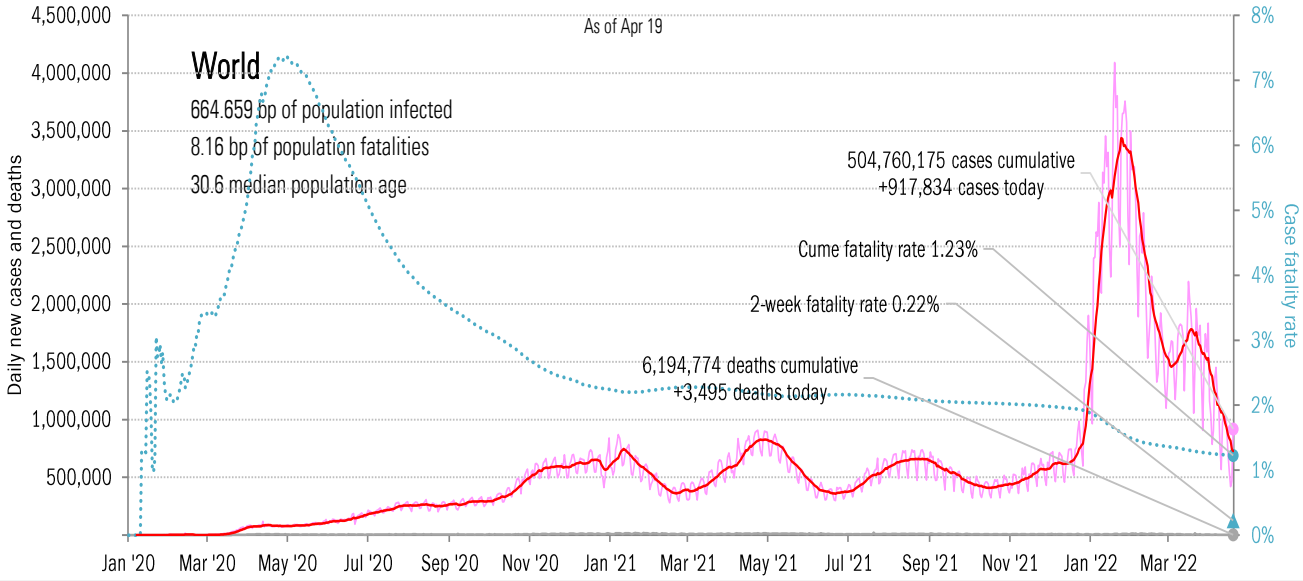
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Germany	198,583	United States	542
United Kingdom	116,422	United Kingdom	484
Korea, South	111,280	Germany	348
Australia	50,580	Russia	227
United States	47,018	France	182
Japan	40,826	Korea, South	166
China	32,715	Thailand	128
Switzerland	28,239	Italy	127
Italy	27,326	Brazil	125
Portugal	26,084	Hungary	106
	679,073		2,435
World	917,834	World	3,495
Top ten	74%	Top ten	70%





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

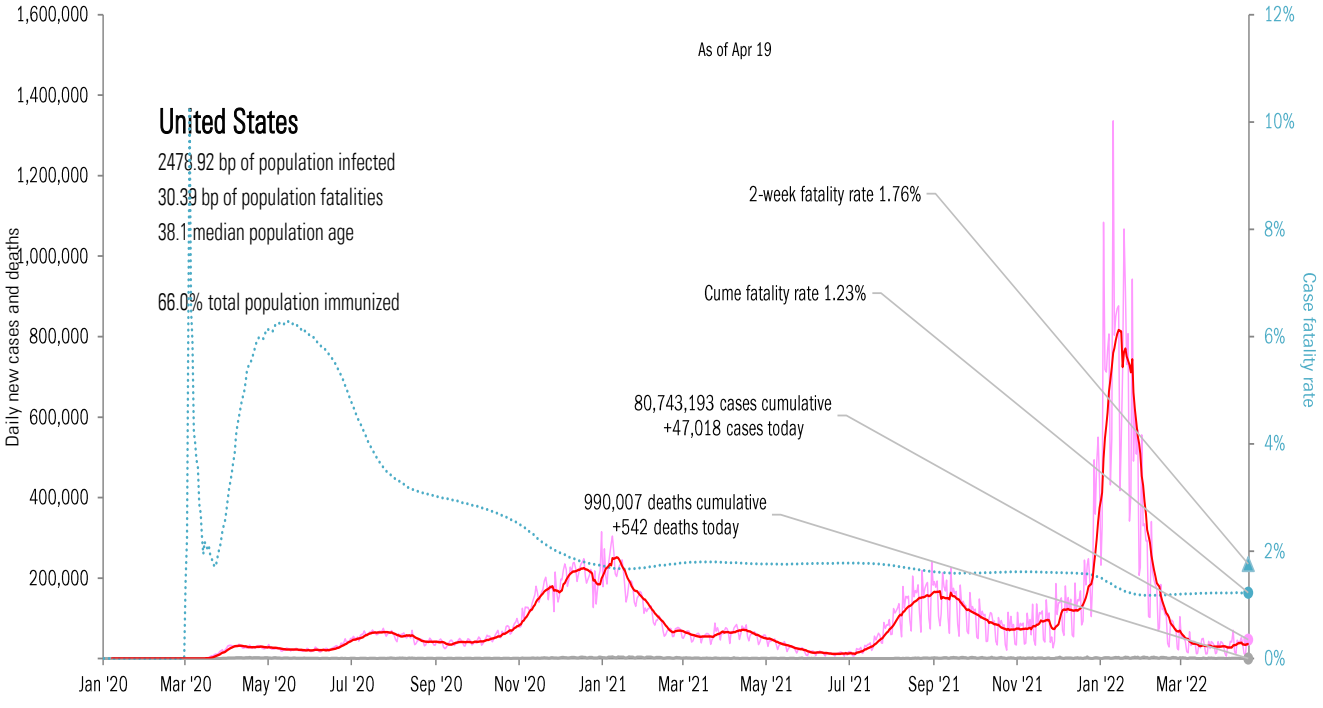
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	10,395	CA	100	FL	127	CA	9,171,381	CA	89,797	TX	488,974	RI	86%	DE	83%
MA	6,801	PA	51	MD	26	TX	6,795,411	TX	87,892	CA	424,995	MA	81%	TX	83%
NY	4,630	TX	43	MN	31	FL	5,912,913	FL	73,867	FL	415,290	WA	81%	RI	81%
TX	3,938	SC	36	PR	14	NY	5,090,408	NY	68,160	NY	247,983	MN	79%	KY	81%
NJ	2,813	NY	35	MT	5	IL	3,102,711	PA	44,539	GA	207,246	MD	78%	WA	80%
IL	2,471	VA	27	MI	67	PA	2,800,317	OH	38,266	OH	190,854	GA	77%	AL	78%
MD	1,874	FL	21	AK	4	OH	2,681,437	GA	37,523	PA	176,398	PA	77%	MI	77%
MN	1,737	AZ	20	ME	15	NC	2,639,241	IL	35,970	IL	157,487	DC	77%	DC	76%
PA	1,610	IL	20	SD	5	GA	2,506,634	MI	35,857	MI	141,626	MI	77%	OR	76%
CO	1,544	NJ	13	WA	30	MI	2,400,990	NJ	33,349	KY	132,948	DE	76%	MA	76%
	37,813		367		324		43,101,443		545,220		2,583,801				
All states	47,018		542		1,296	All states	80,743,193		990,007		4,691,522	All states	70%		67%
Top ten	80%		68%		25%	Top ten	53%		55%		55%	Median	71%		68%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NY	-7,036	FL	-135	NY	-106	FL	+10 bp
FL	-6,561	IN	-14	MA	-58	OH	+10 bp
WA	-3,315	OR	-7	IN	-33	RI	+10 bp
IL	-3,284	WA	-7	CA	-32	AK	+0 bp
AZ	-2,906	AR	-6	OH	-26	AL	+0 bp



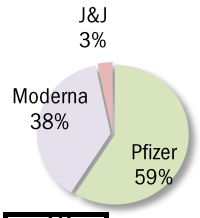
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	585,278,550				+0.235 million
Boosters	100,885,967				+0.045 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	264,605,817	79%	225,265,284	67%	+0.030 million
Age 12 to 17	17,663,973	70%	15,068,226	60%	+0.002 million
Age 18 to 64	178,067,976	88%	151,055,513	74%	+0.014 million
Age 65 and over	58,665,777	100%	50,940,114	93%	+0.010 million

Immunity	Full	Partial
US	66.0%	77.4%
UK	73.0%	77.8%
France	77.9%	80.1%
Spain	86.3%	88.1%
Germany	75.4%	76.0%
Italy	79.3%	84.1%
Australia	83.2%	86.3%
Israel	66.0%	72.2%
Canada	82.1%	87.5%
Japan	80.3%	81.7%
Africa	16.2%	21.2%
India	60.6%	71.7%
Brazil	76.1%	85.2%
China	86.3%	88.6%

Global data differs due to sources, timing



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

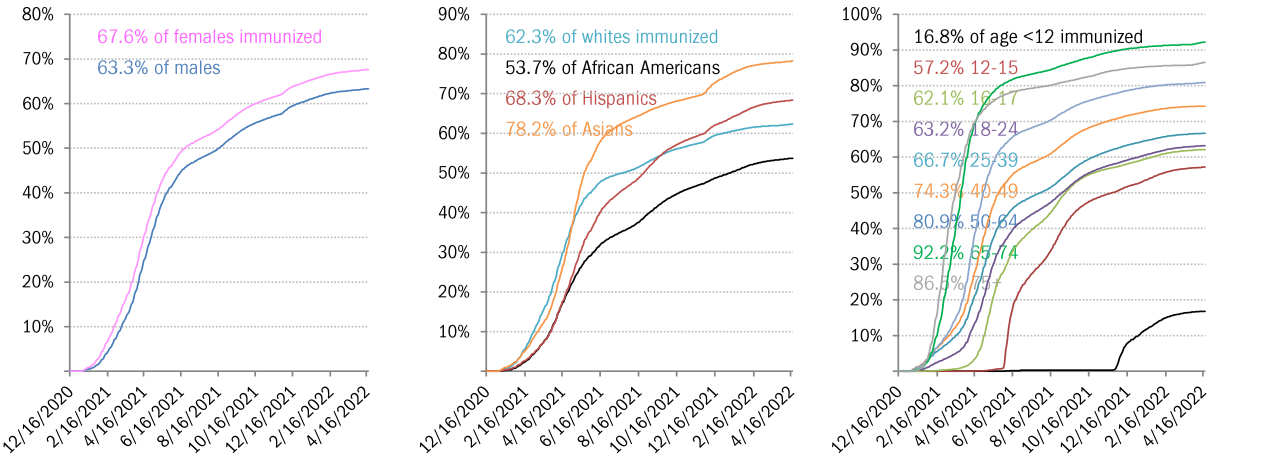
"Immunity" = two doses

Best
Middle
Worst

As of Apr 19

					WI					ME
					71.7%					89.9%
					65.4%					79.2%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
80.6%	61.0%	65.1%	64.8%	74.9%	76.5%	66.8%		89.9%	93.2%	86.9%
72.4%	53.9%	56.6%	54.7%	69.0%	68.5%	60.0%		76.6%	80.9%	69.2%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
77.7%	75.0%	58.6%	76.1%	67.8%	61.3%	63.4%	84.5%	90.1%	95.0%	
69.4%	60.6%	51.4%	61.0%	61.8%	54.7%	58.3%	68.1%	75.4%	78.7%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
83.4%	71.9%	79.2%	70.1%	66.0%	66.0%	64.8%	85.4%	86.2%	95.0%	95.0%
71.8%	64.1%	70.1%	63.4%	55.9%	57.2%	57.4%	73.0%	75.4%	78.9%	82.2%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	72.8%	87.3%	74.3%	66.5%	62.0%	83.8%	67.3%	95.0%	82.9%	
	61.3%	70.8%	61.2%	54.3%	54.4%	60.7%	56.6%	73.6%	68.9%	
			OK	LA	MS	AL	GA			
			70.9%	60.9%	59.4%	62.6%	65.2%			
			57.0%	53.4%	51.7%	51.0%	54.5%			
HI			TX					FL		PR
87.2%			72.8%					79.0%		94.8%
78.1%			61.2%					66.8%		82.8%

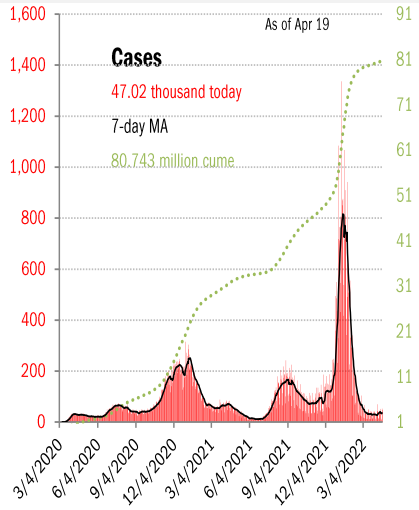
The demographics of US vaccination

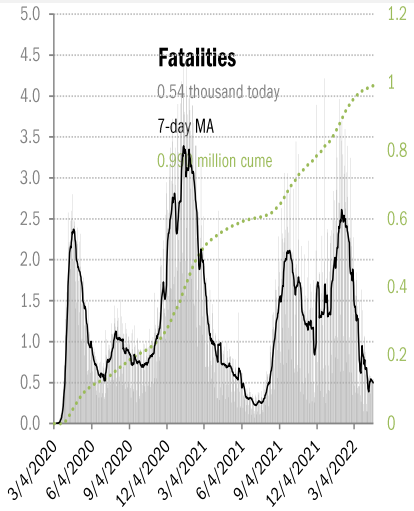


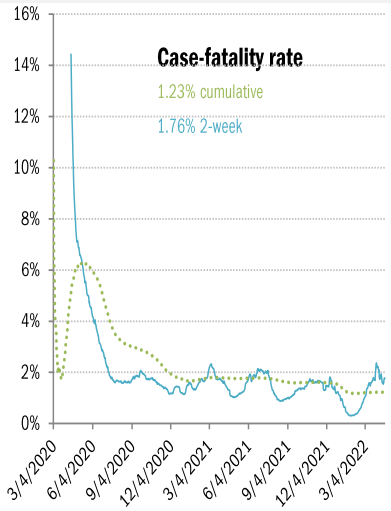
Source: CDC, CDC, Our World in Data, TrendMacro calculations

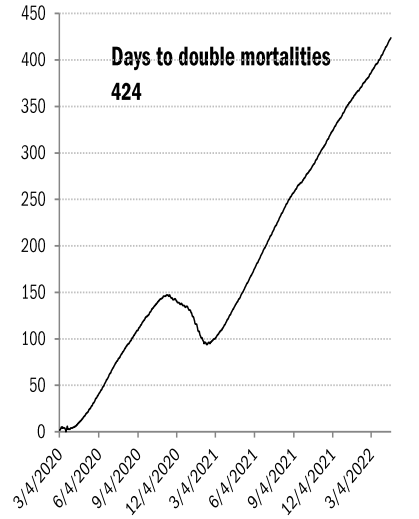
US deep-dive

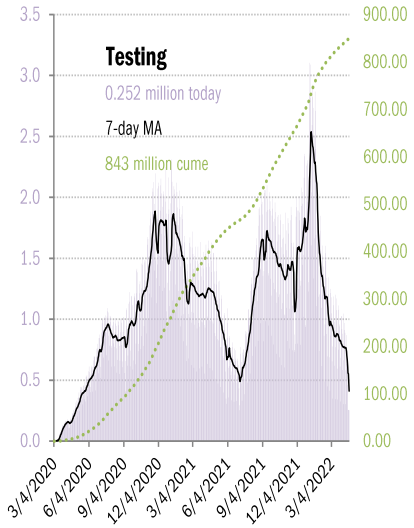
National and state-by-state data do not line up because of different sources

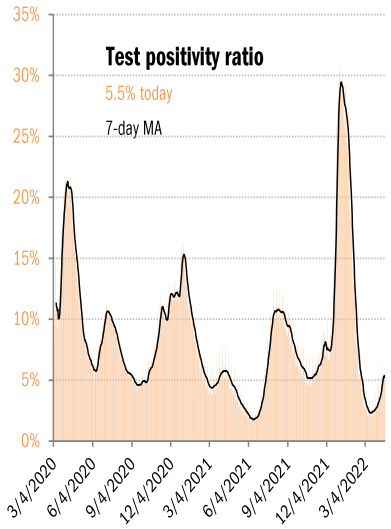


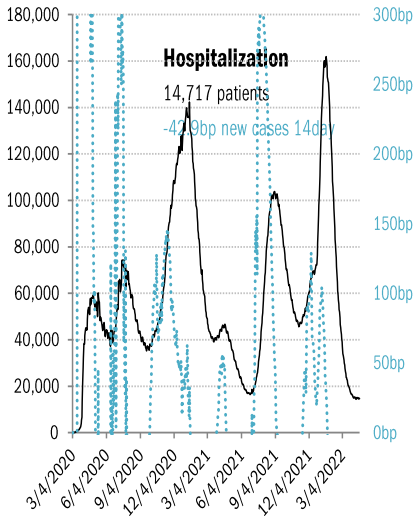


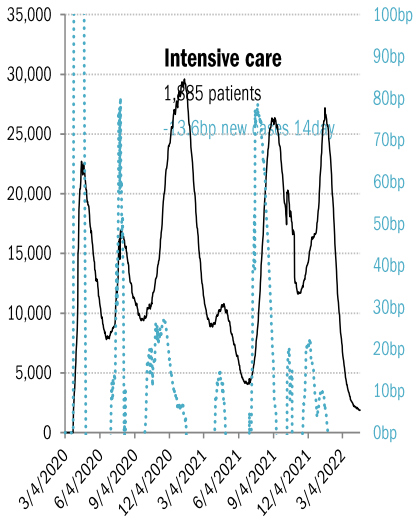


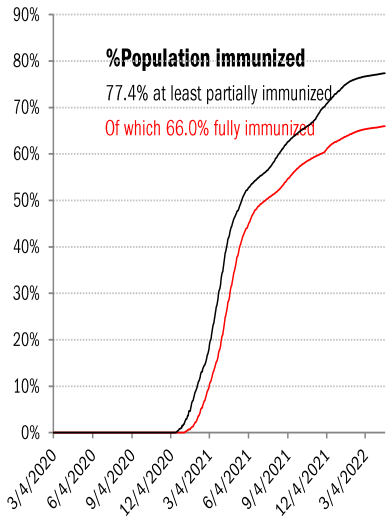










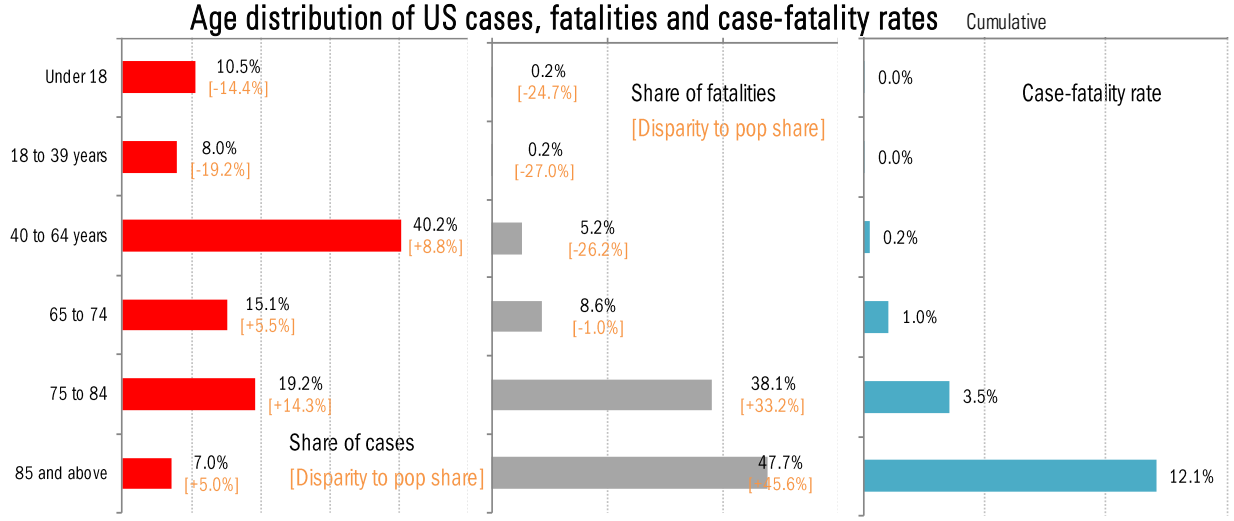


Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

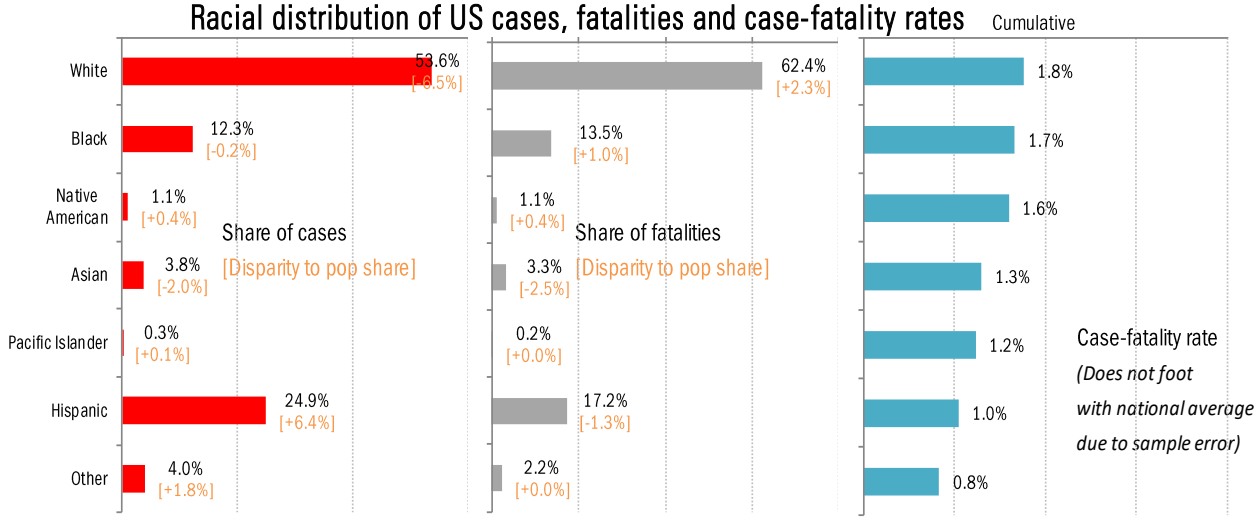
US deep-dive: demographics of age, race and health

Updates weekly on Sunday, 1 week lag

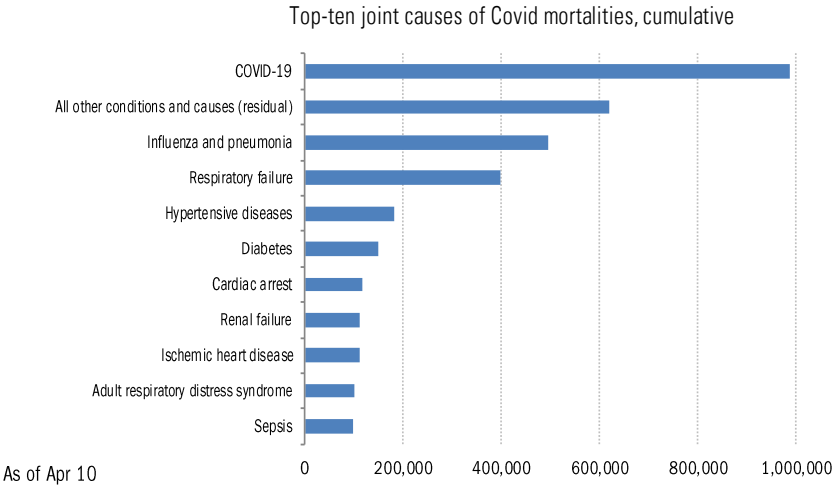
Age distribution of US cases, fatalities and case-fatality rates



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



Comorbidities



As of Apr 10

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

Should You Wear a Mask Anyway as Federal Mandates Are Dropped for Airports, Airlines?
Brianna Abbott
Wall Street Journal
April 19, 2022

China internet censors scramble as lockdown frustration sparks 'creative' wave of dissent
Helen Davidson
The Guardian
April 20, 2022

Anthony Fauci Funded an HIV Tracking Project for Teenage Prostitutes in China.
Natalie Winters
National Pulse
April 16, 2022

America's Unmasked Singers
Wall Street Journal
April 19, 2022

Officials Adopt New Message on Covid-19 Behaviors: It's Your Call
Jared S. Hopkins
Wall Street Journal
April 17, 2022

Populism vs. Davos Man during COVID
Robert Malone
Who is Robert Malone
April 18, 2022

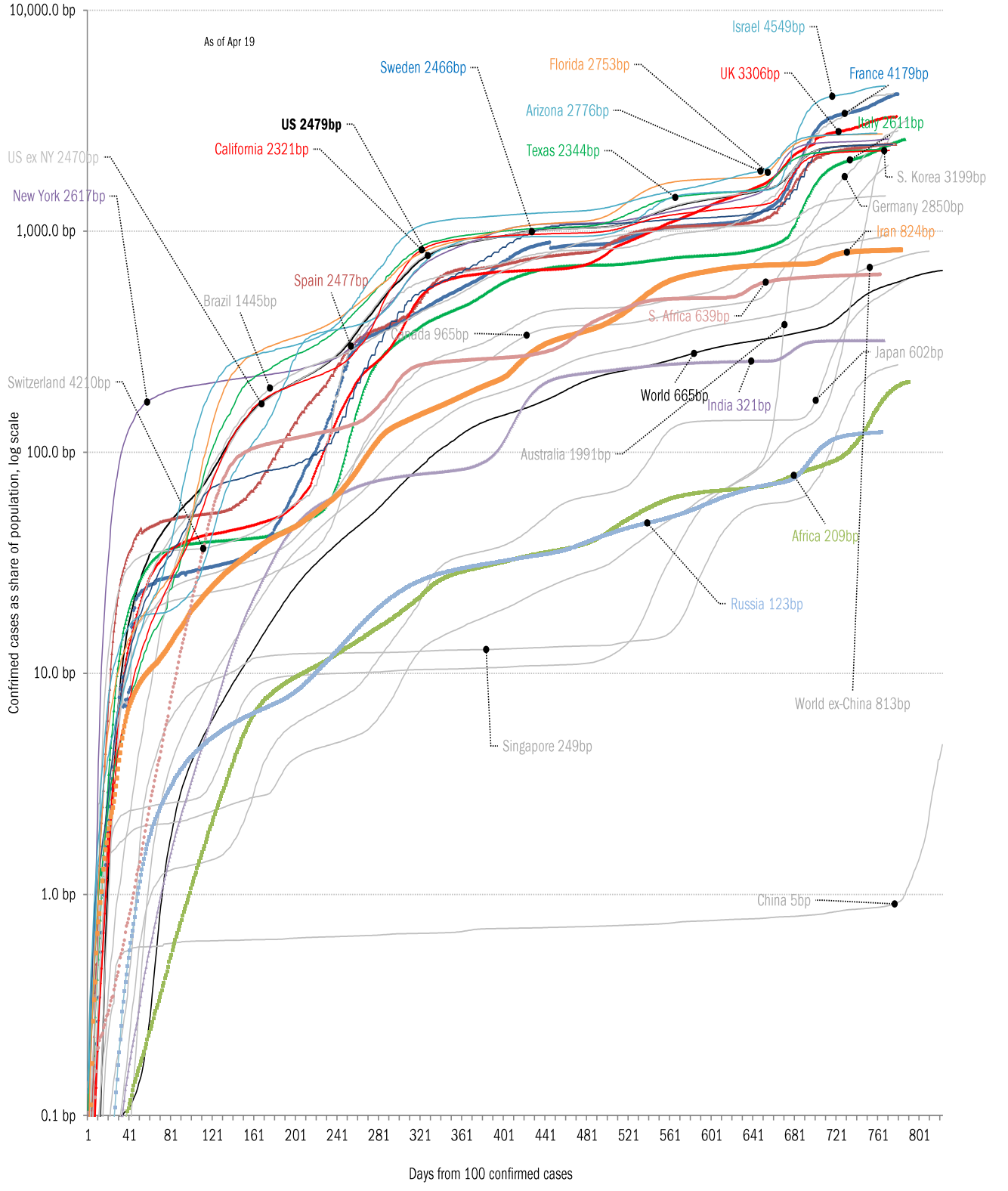
Maskaholics
John Tierney
City Journal
April 18, 2022

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

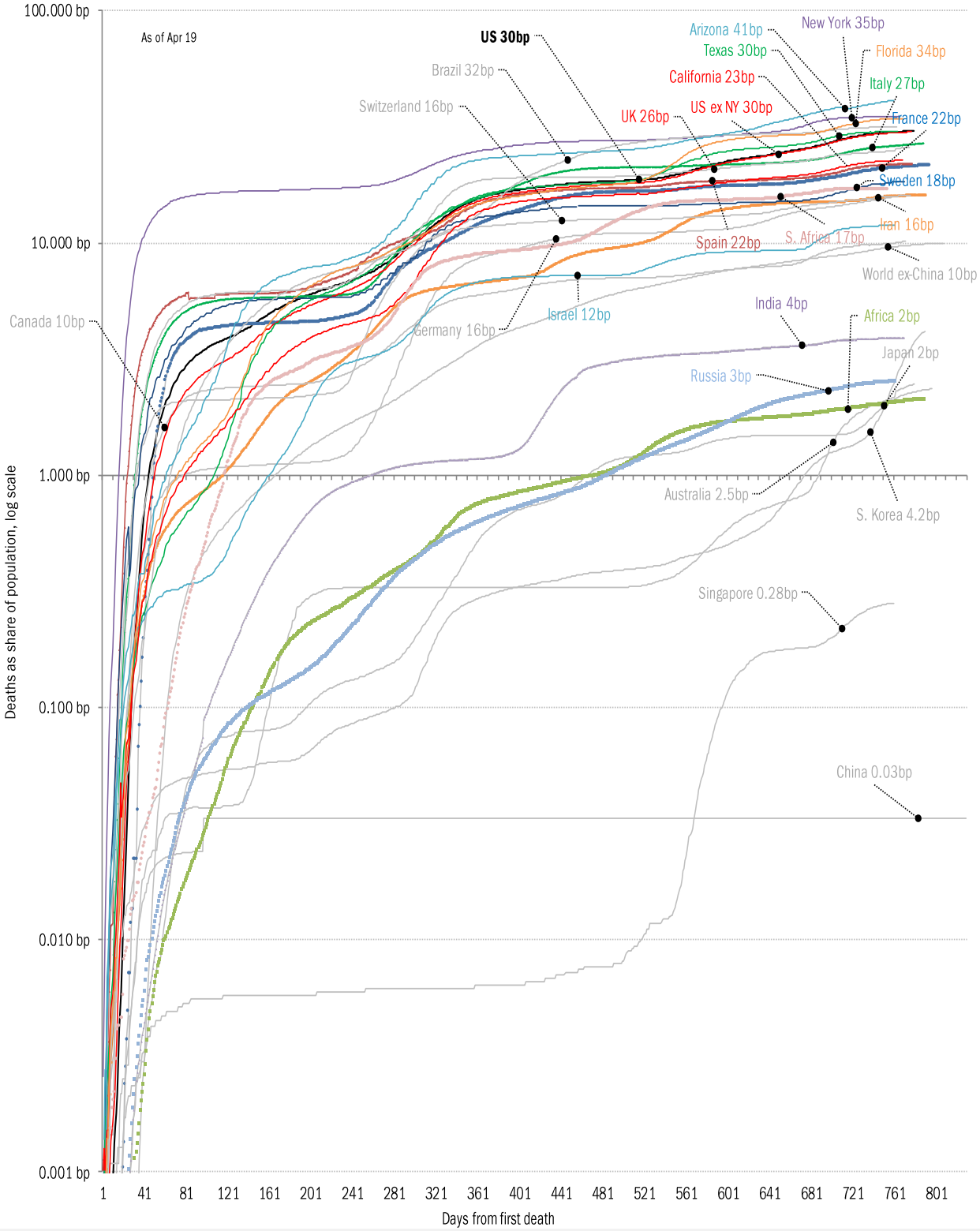
Share of infected population from first day with 100 confirmed cases, log scale



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

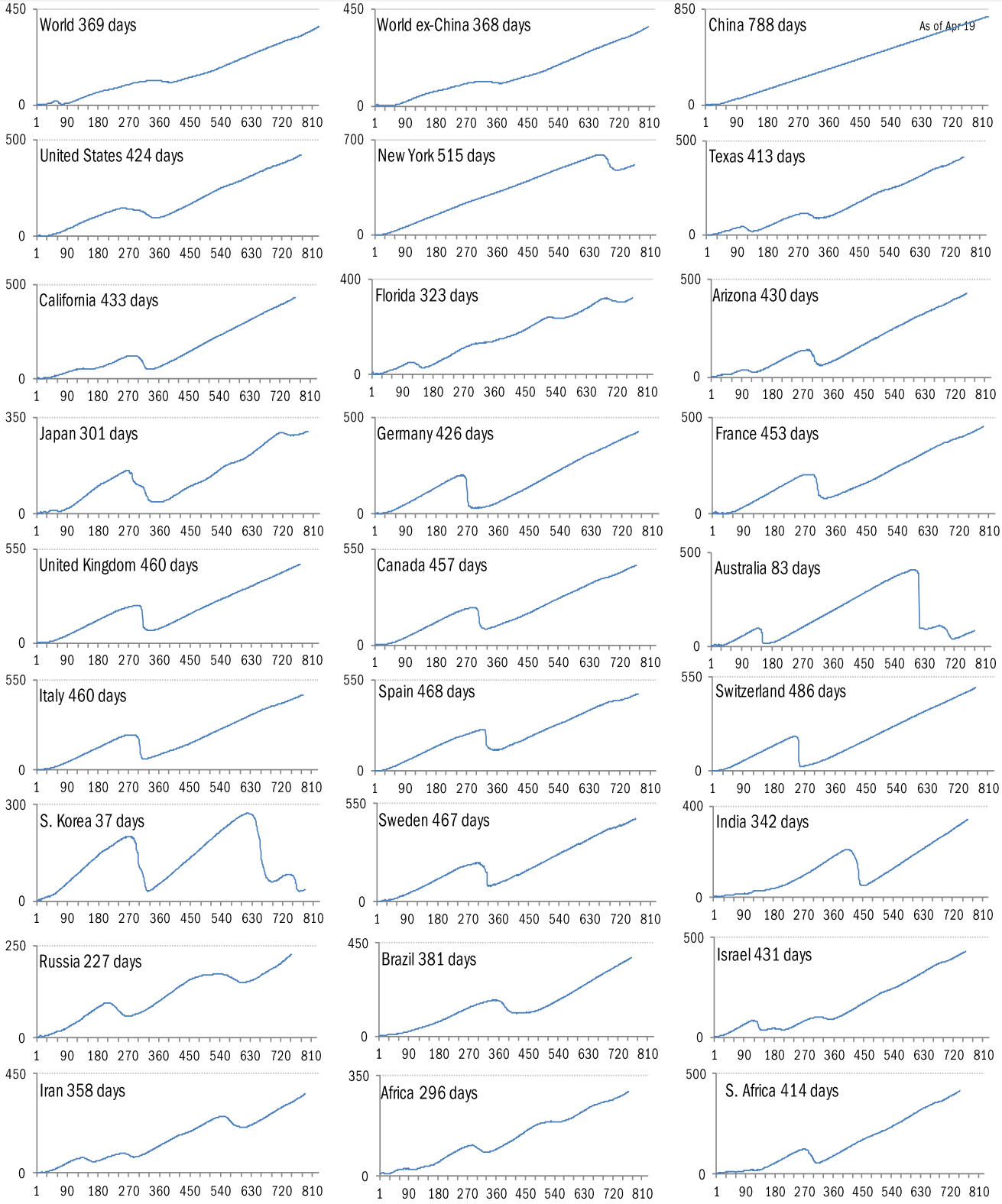


Source: Johns Hopkins, TrendMacro calculations

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

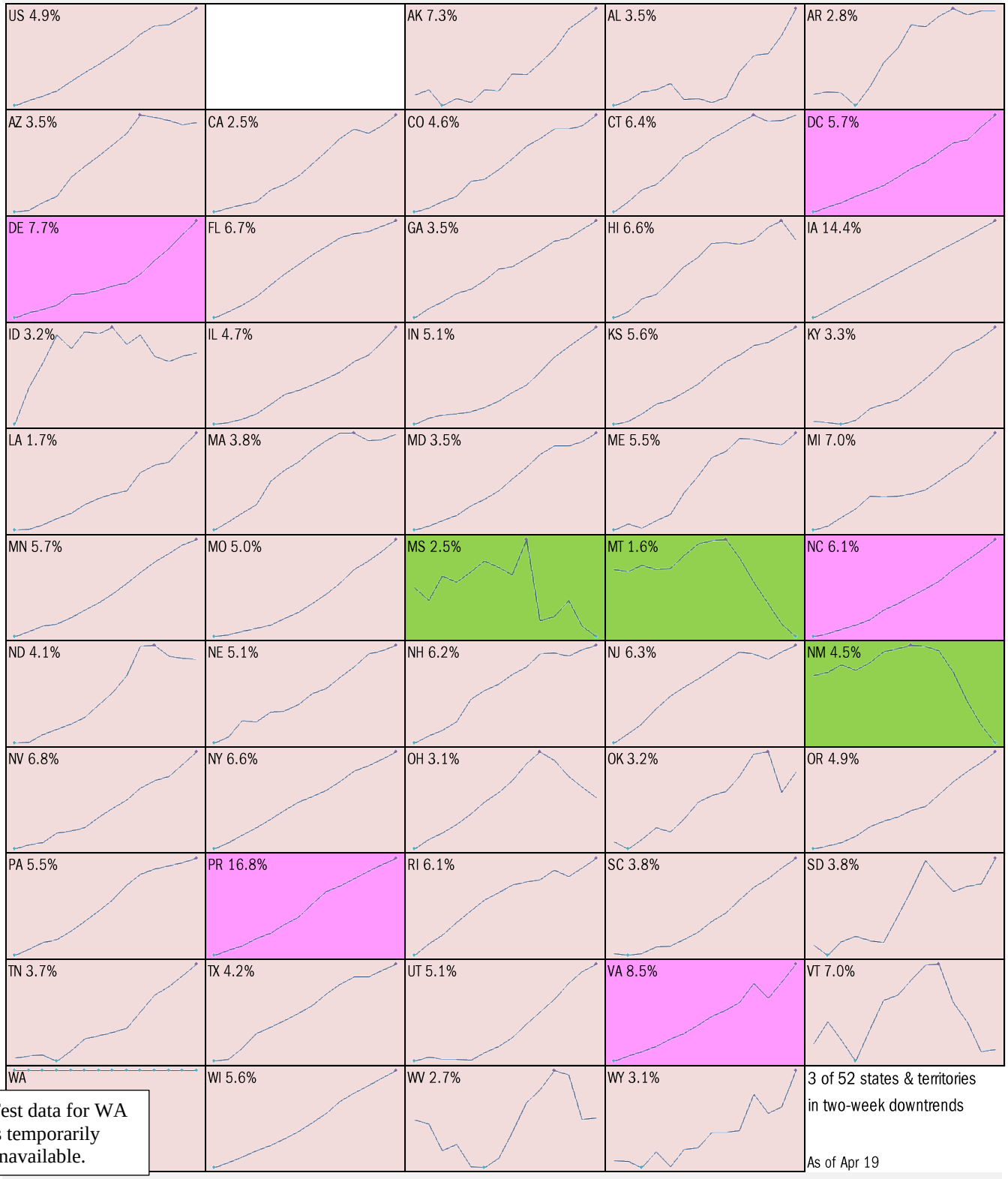
Downward trajectory Five best Upward trajectory Five worst

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

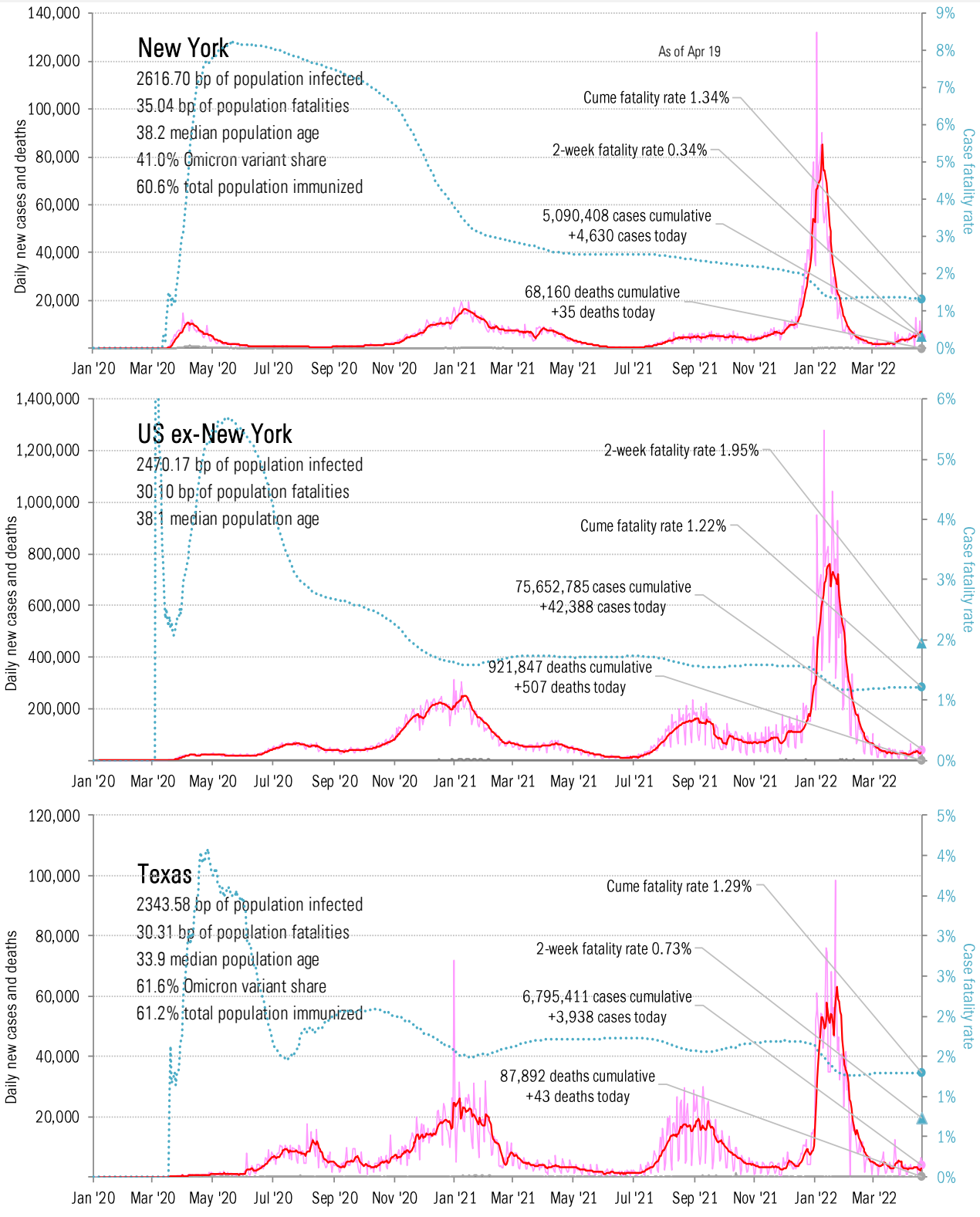


Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

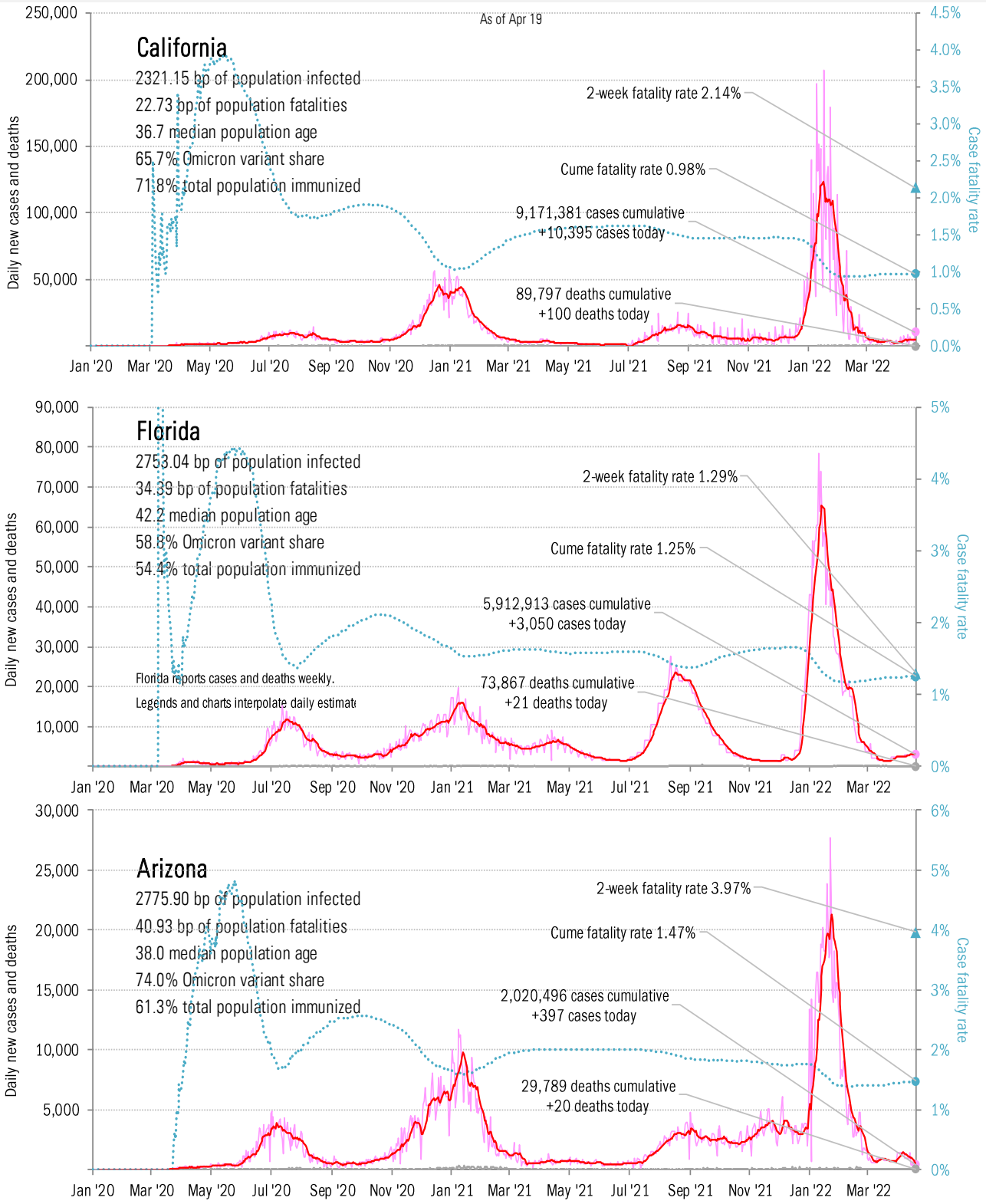
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

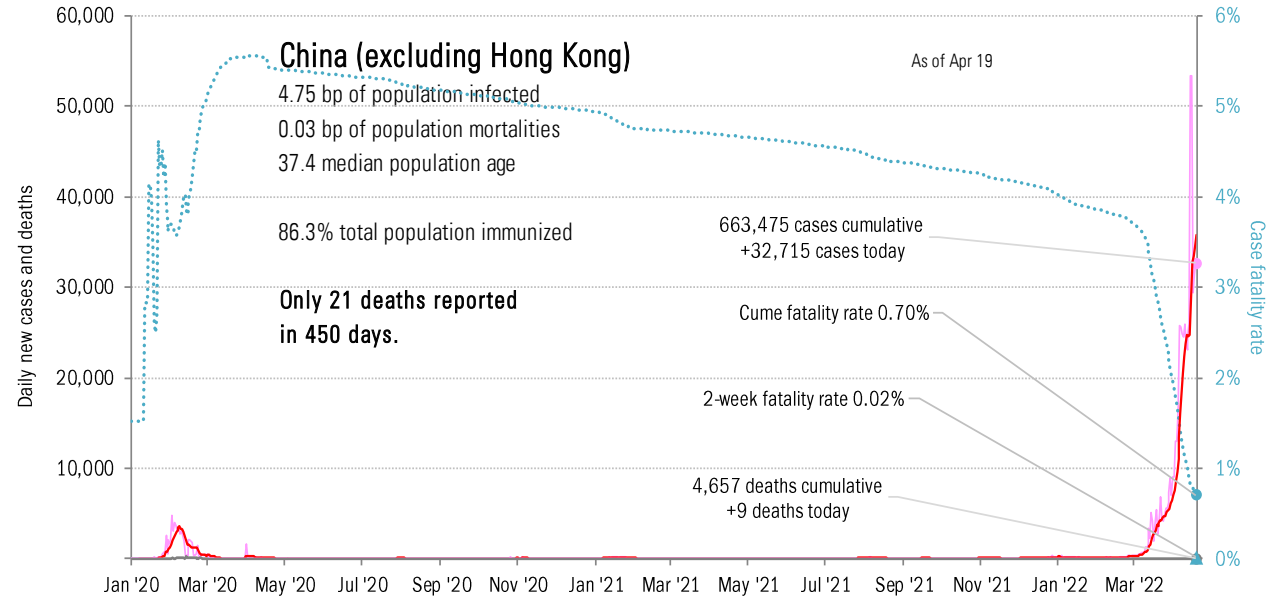
Cases: 7-day average and daily Deaths: Daily

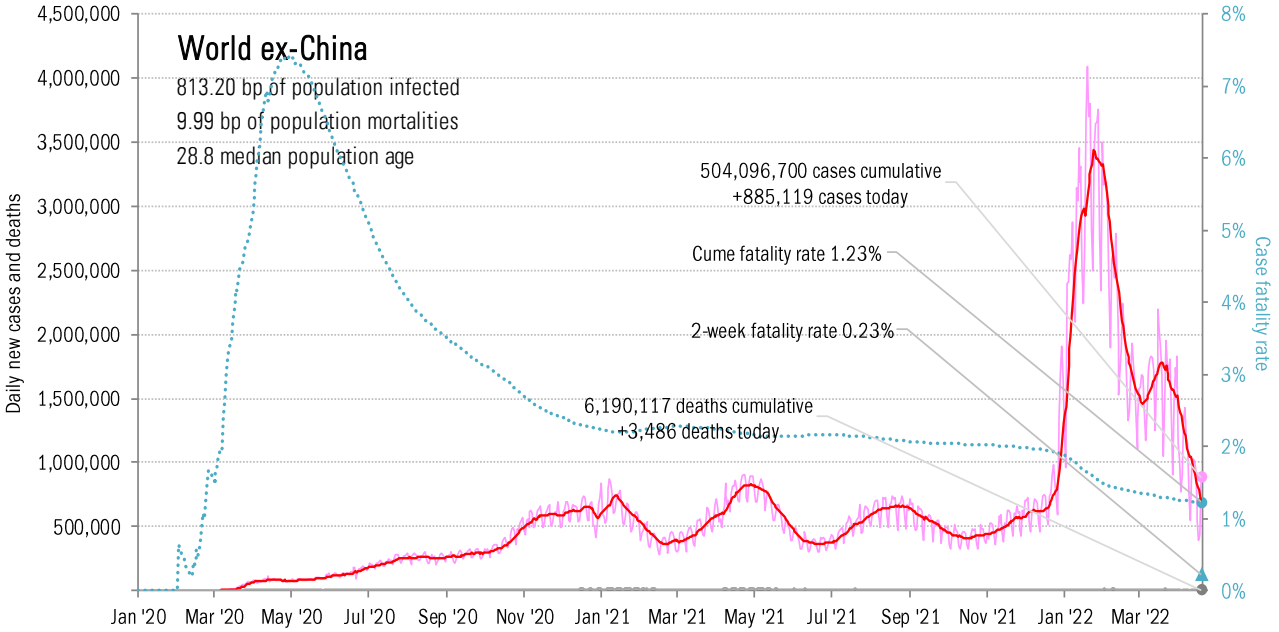


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

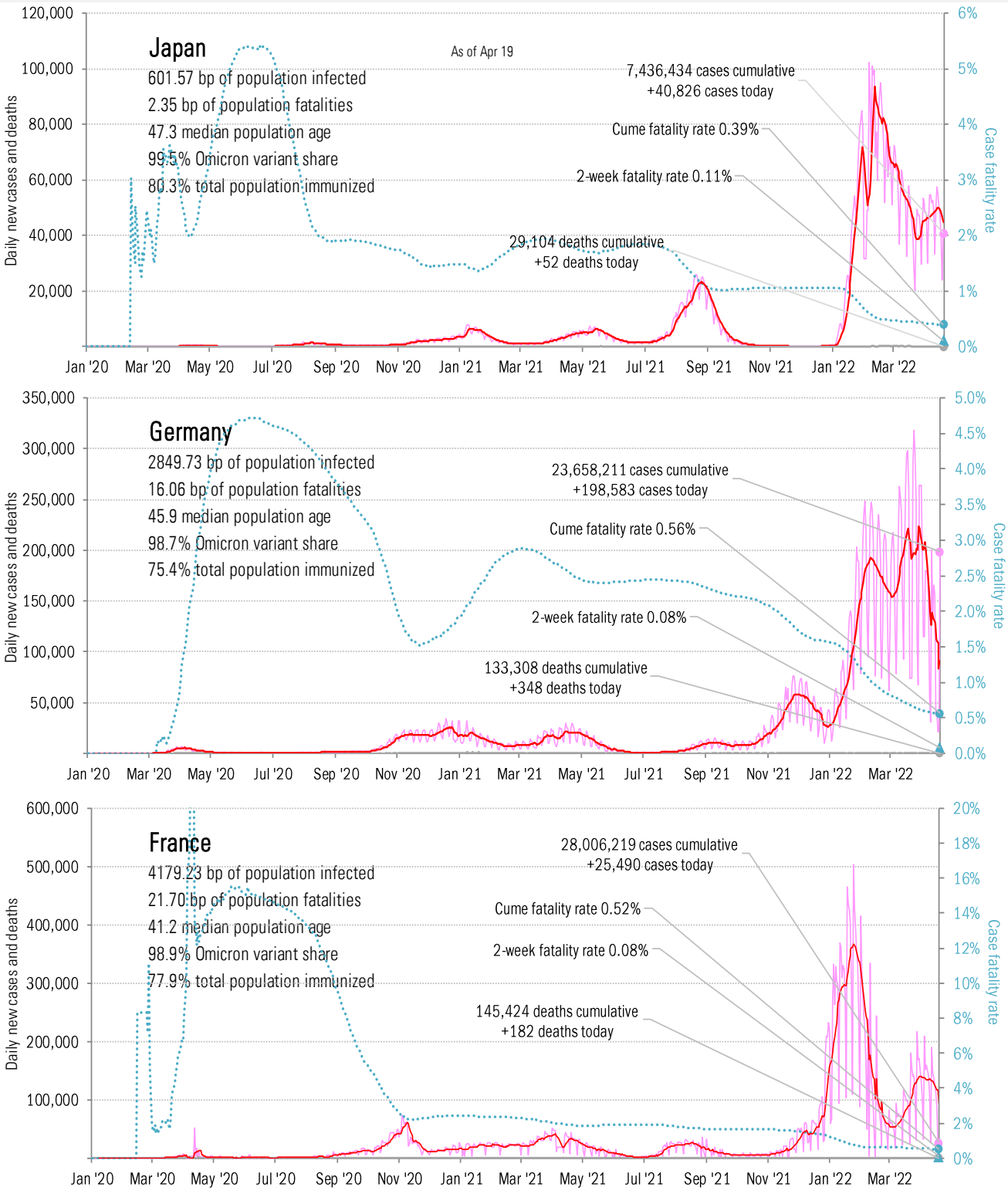




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

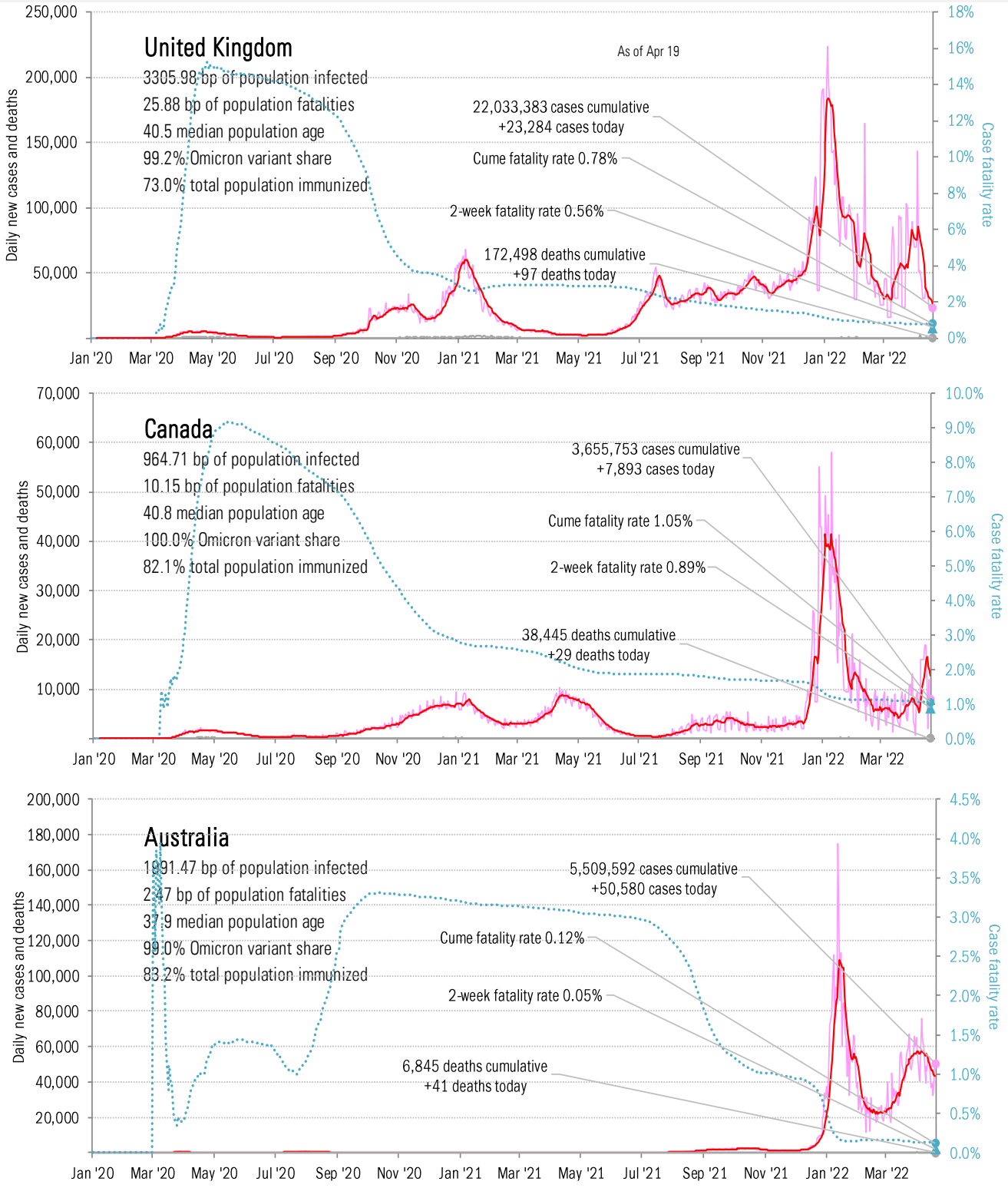
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

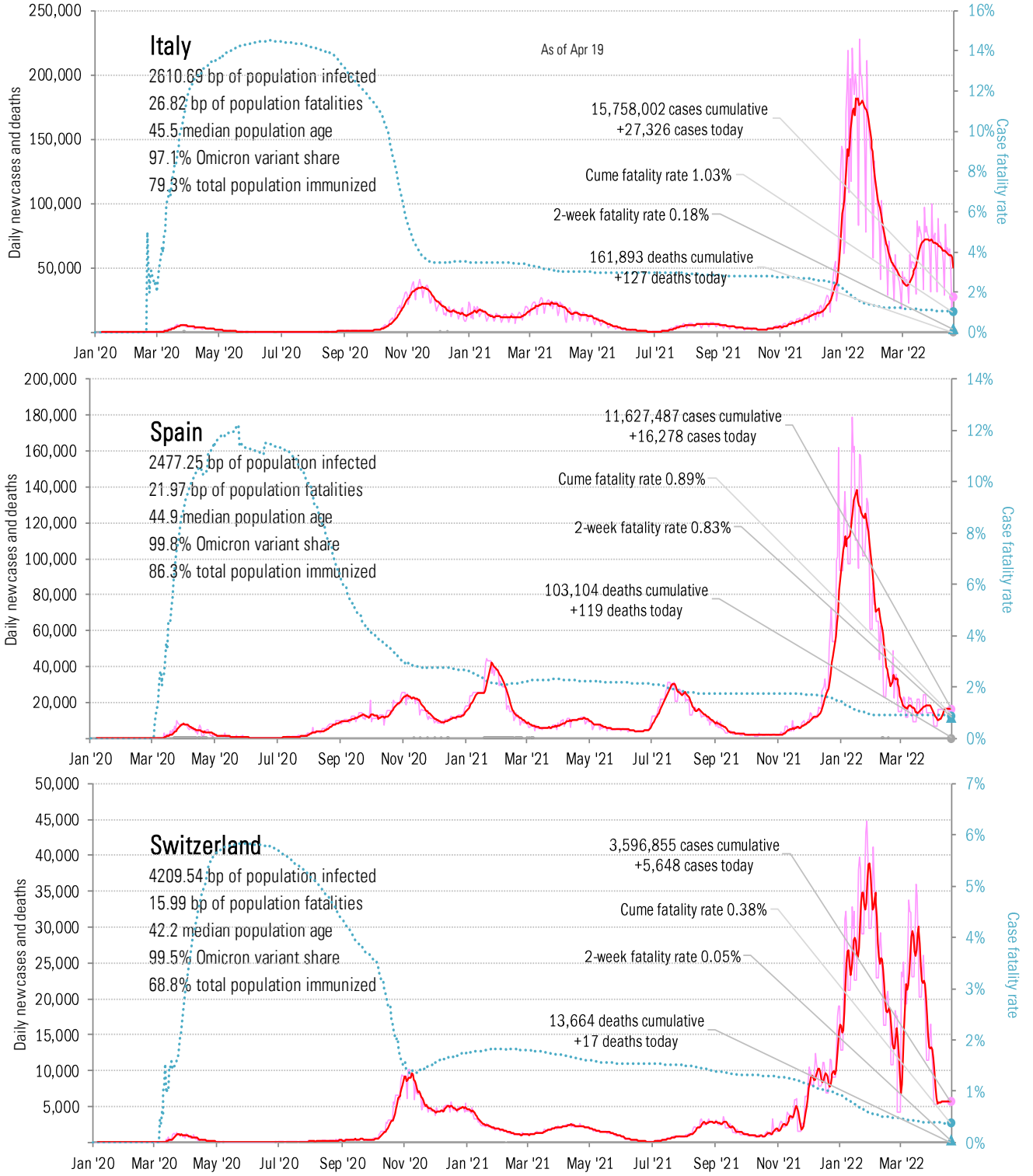
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

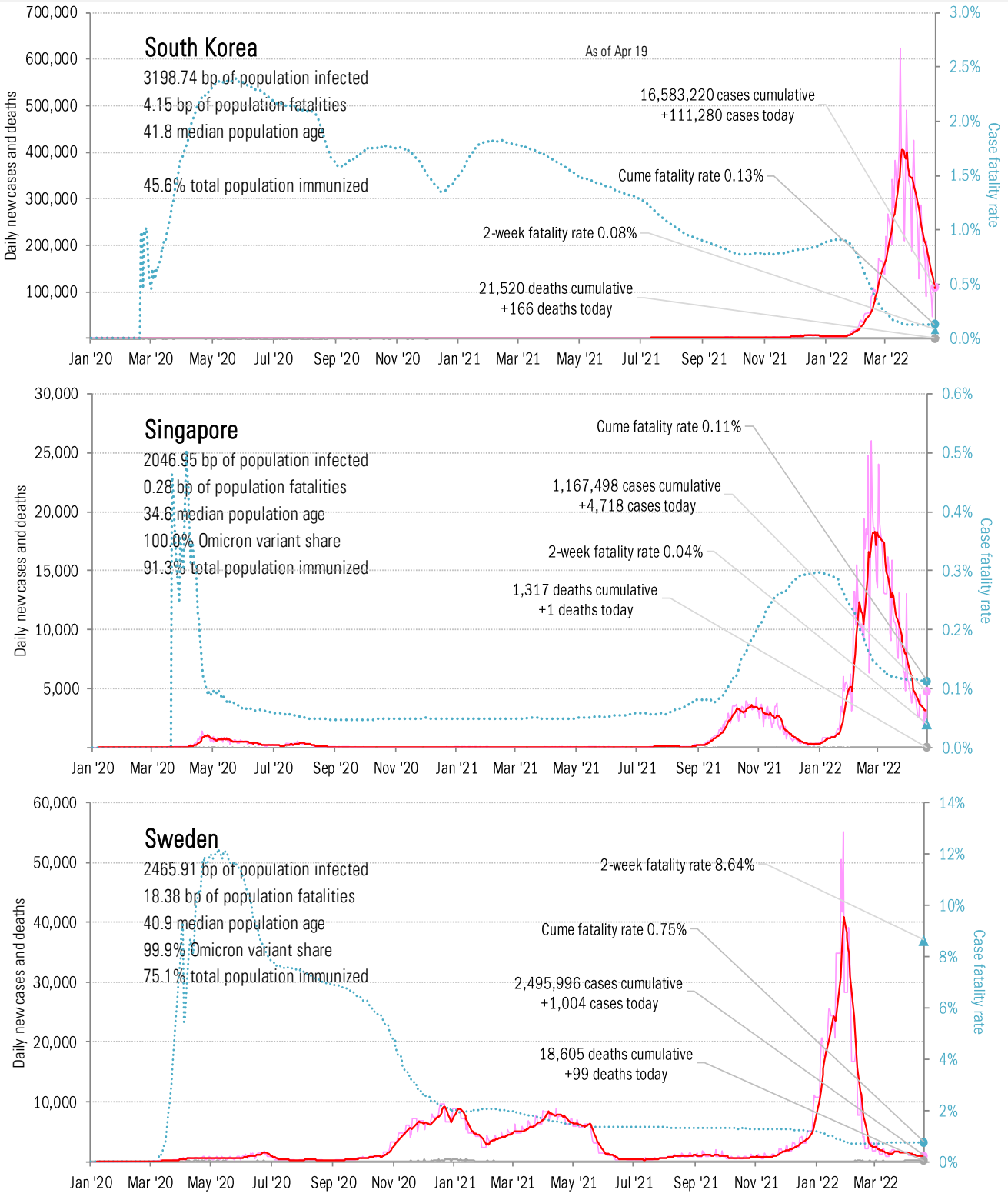
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

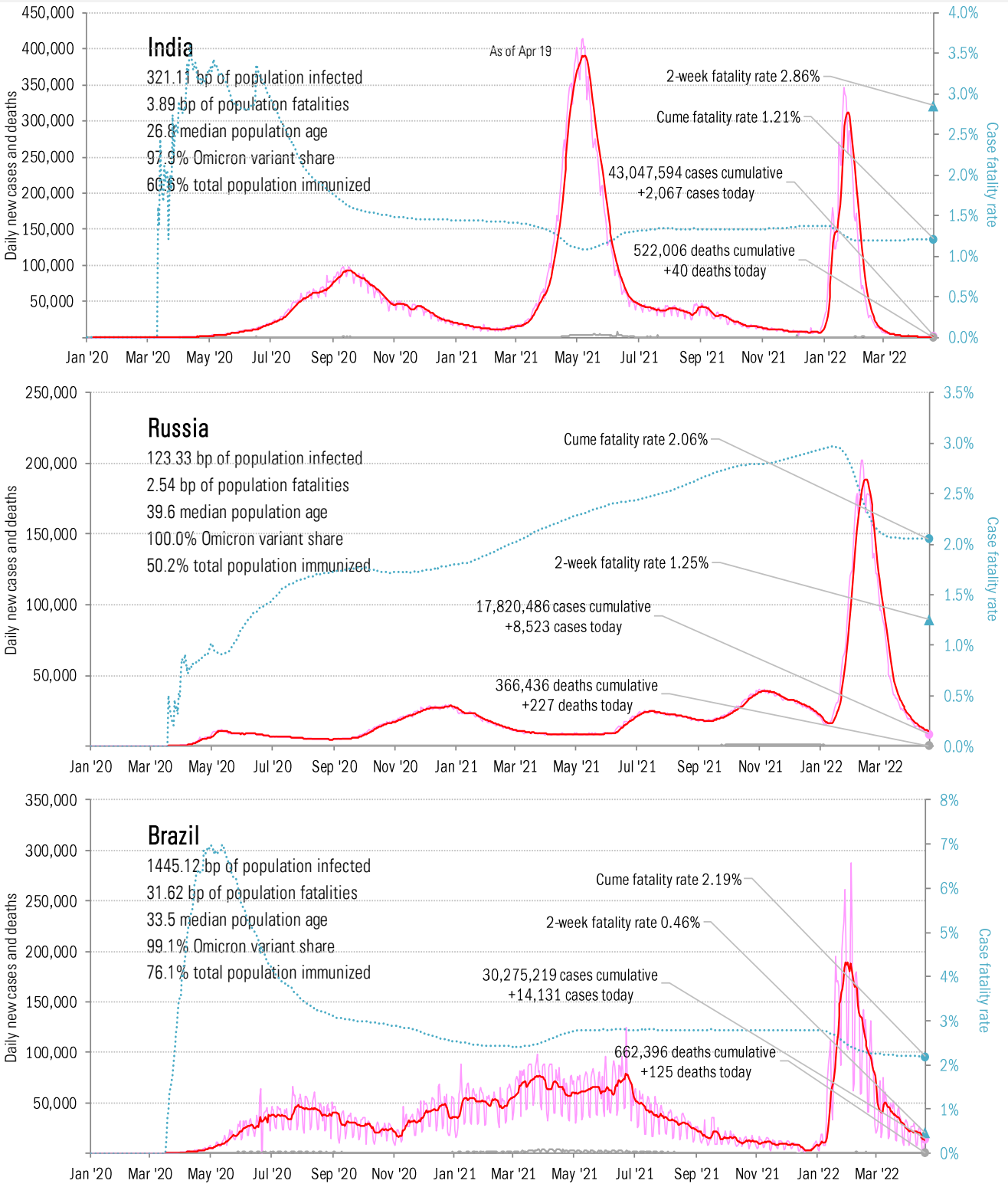
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

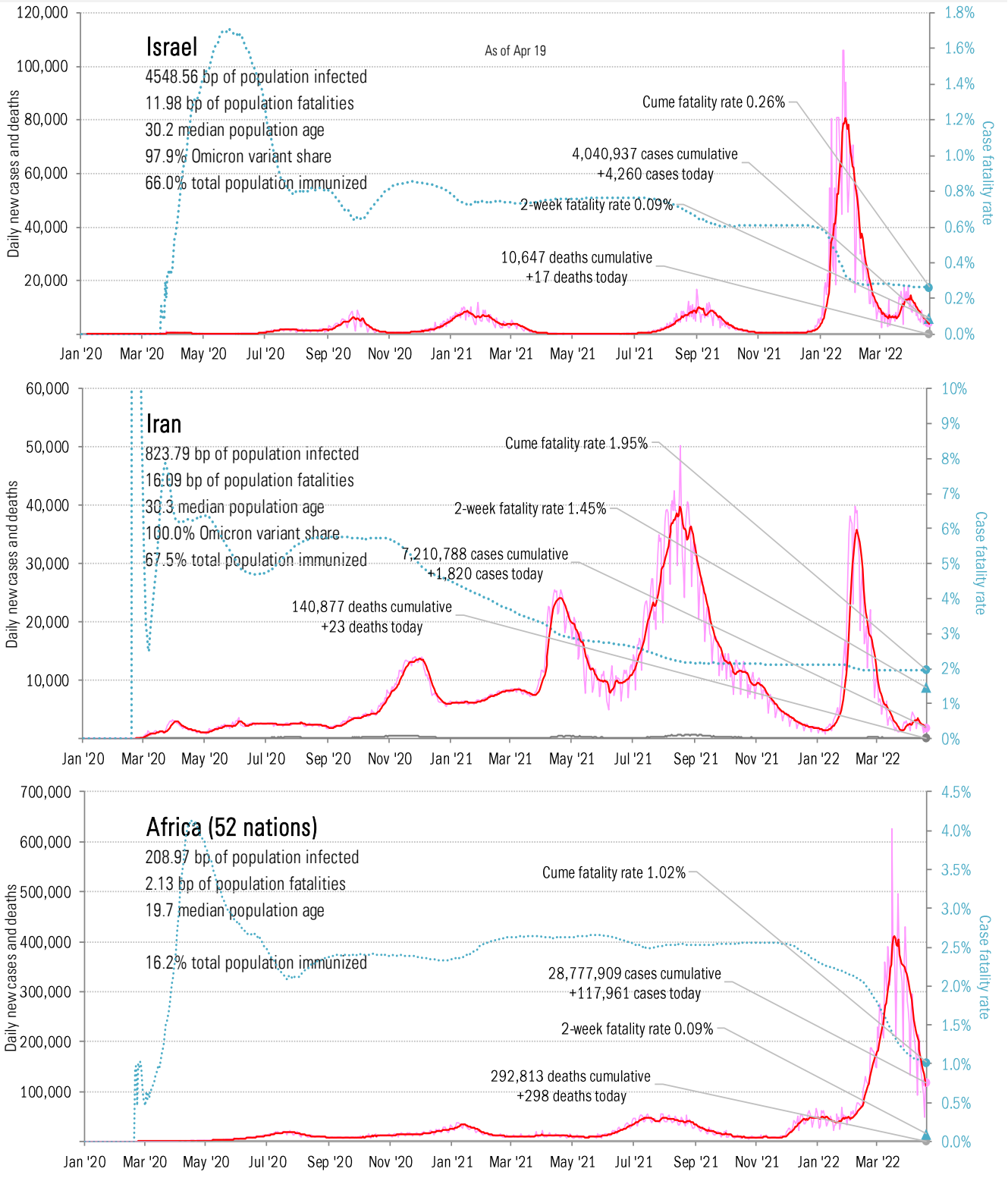
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

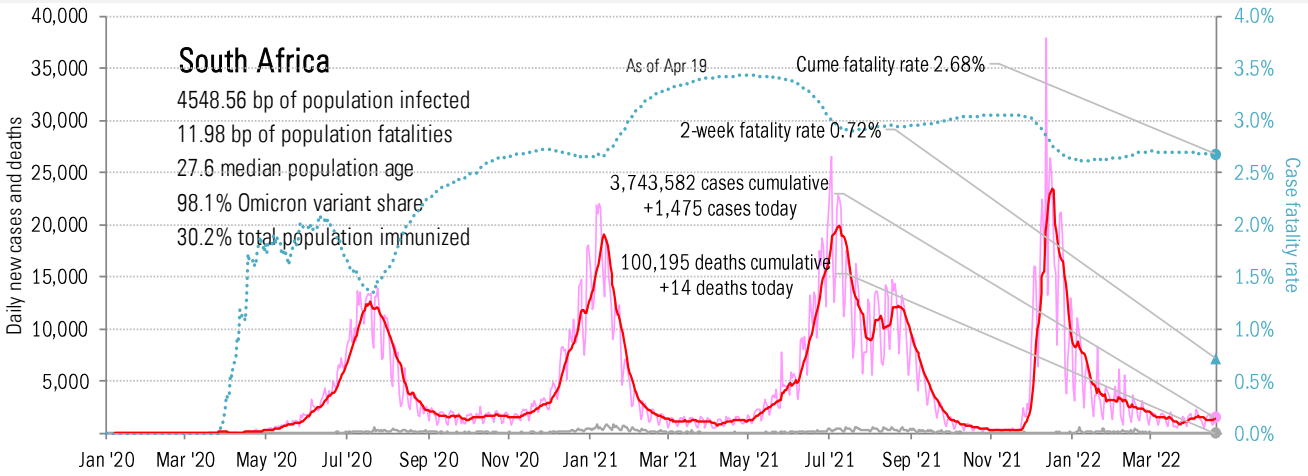
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations