Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

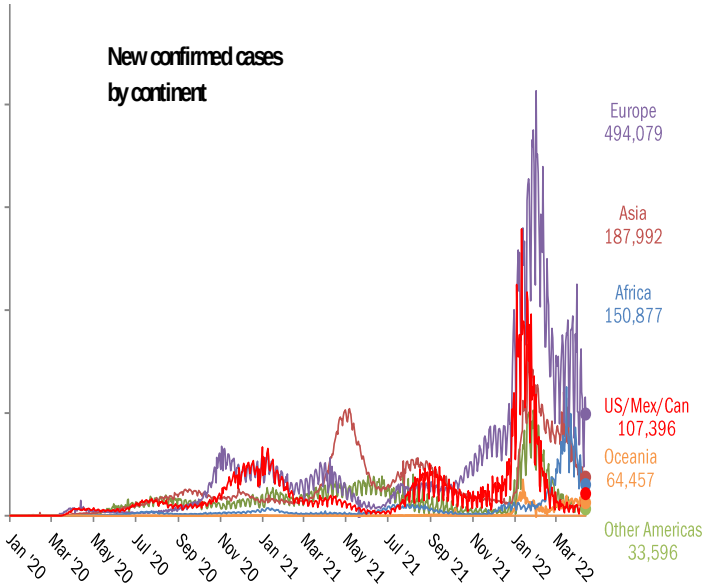
Thursday, April 14, 2022

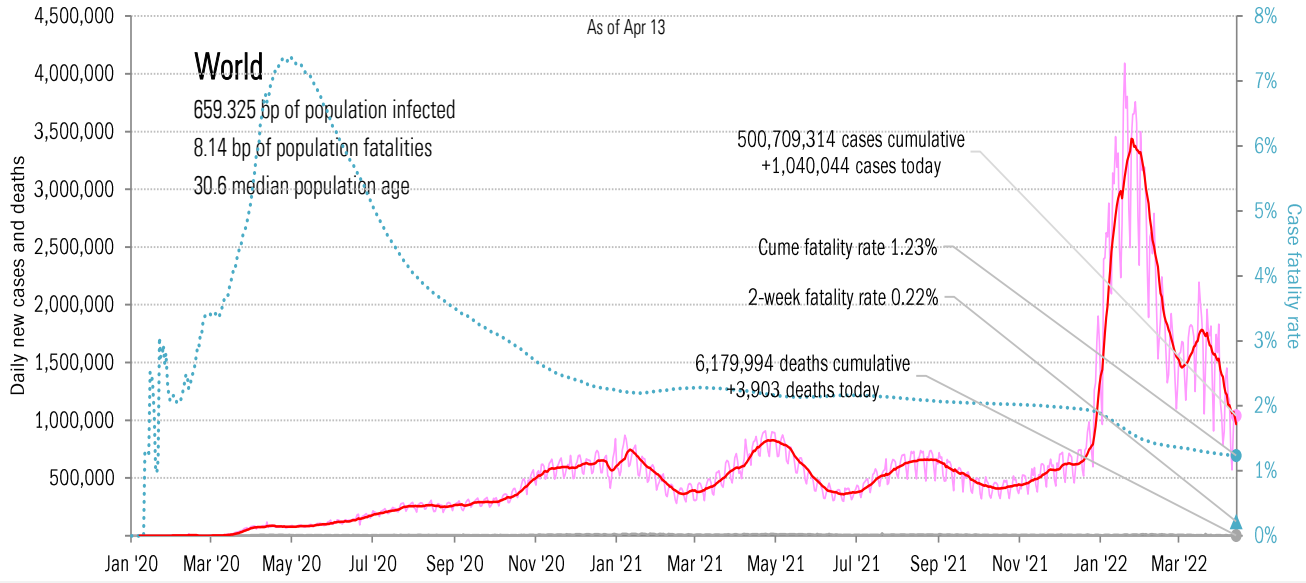
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Germany	165,368	United Kingdom	658
Korea, South	148,417	United States	368
France	146,503	Korea, South	318
Canada	63,808	Germany	310
Italy	62,586	Canada	261
Japan	57,666	Russia	259
Australia	54,709	Thailand	221
Thailand	47,149	Brazil	163
United States	42,839	Italy	155
United Kingdom	37,464	France	152
	826,509		2,865
World	1,040,044	World	3,903
Top ten	79%	Top ten	73%





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

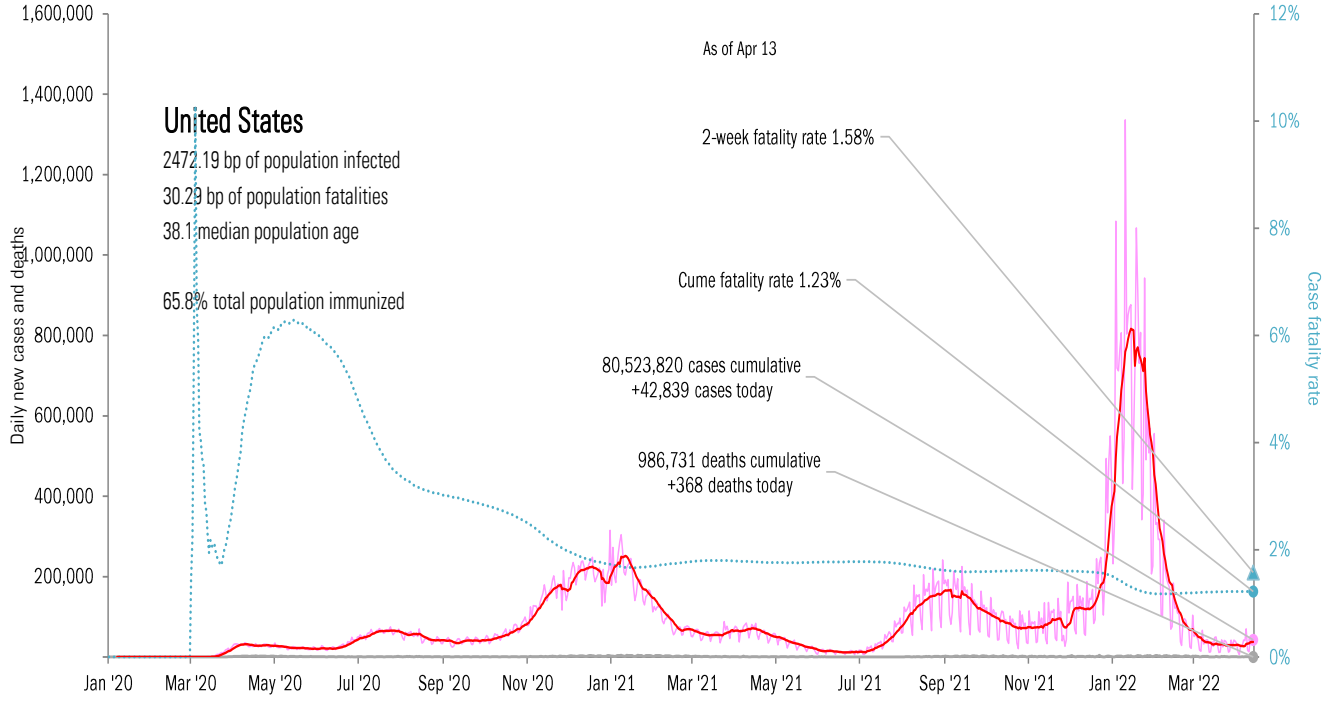
New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
MI	7,725	NV	365	GA	126	CA	9,137,596	CA	89,550	TX	488,427	MA	84%	NM	85%
NC	5,234	TN	250	IN	47	TX	6,780,888	TX	87,789	CA	424,302	RI	84%	TX	81%
WA	4,695			MA	67	FL	5,909,864	FL	73,740	FL	414,570	MN	84%	VT	80%
FL	3,050			NY	185	NY	5,048,911	NY	68,096	NY	246,893	PA	81%	NC	80%
NJ	2,272			CT	37	IL	3,088,725	PA	44,441	GA	207,171	MO	81%	MA	80%
MA	2,238			LA	25	PA	2,792,250	OH	38,166	OH	190,586	GA	81%	KY	79%
IL	2,060			MO	30	OH	2,676,629	GA	37,428	PA	176,048	WA	80%	MS	79%
CO	1,656			IL	59	NC	2,639,241	IL	35,932	IL	157,169	MD	80%	WA	78%
AZ	1,374	AL	24	CA	148	GA	2,505,343	MI	35,857	MI	141,232	MI	79%	RI	78%
HI	1,327	FL	24	PR	8	MI	2,400,990	NJ	33,315	KY	132,902	DC	79%	MI	77%
	31,631		1,141		732		42,980,437		544,314		2,579,300				
All states	42,839		368		1,599	All states	80,523,820		986,731		4,683,422	All states	70%		67%
Top ten	74%		310%		46%	Top ten	53%		55%		55%	Median	74%		72%

State-level fatality data distorted by revisions today.

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-13,007	FL	-110	AZ	-64	CA	+10 bp
NY	-3,187	OR	-79	FL	-17	MA	+10 bp
AZ	-1,348	SC	-48	TN	-16	MO	+10 bp
DC	-1,115	ME	-40	NJ	-15	NV	+10 bp
SC	-891	PA	-18	OR	-12	OK	+10 bp



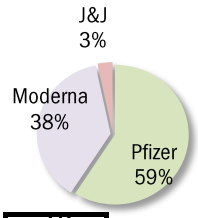
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	582,308,227				+0.335 million
Boosters	100,319,349				+0.069 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	264,194,678	79%	224,882,997	67%	+0.052 million
Age 12 to 17	17,631,935	70%	15,045,927	59%	+0.004 million
Age 18 to 64	177,851,811	87%	150,878,901	74%	+0.028 million
Age 65 and over	58,549,648	100%	50,802,731	93%	+0.015 million

Immunity	Full	Partial
US	65.8%	77.2%
UK	72.7%	77.6%
France	77.9%	80.1%
Spain	86.2%	88.1%
Germany	75.4%	75.9%
Italy	79.3%	84.1%
Australia	83.0%	86.3%
Israel	66.0%	72.2%
Canada	82.0%	86.6%
Japan	80.1%	81.6%
Africa	15.4%	20.5%
India	60.3%	71.5%
Brazil	75.8%	85.0%
China	86.2%	88.6%

Global data differs due to sources, timing



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

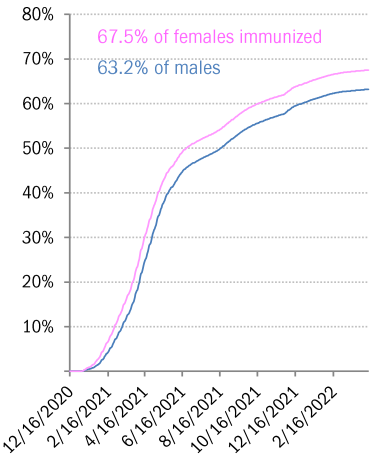
"Immunity" = two doses

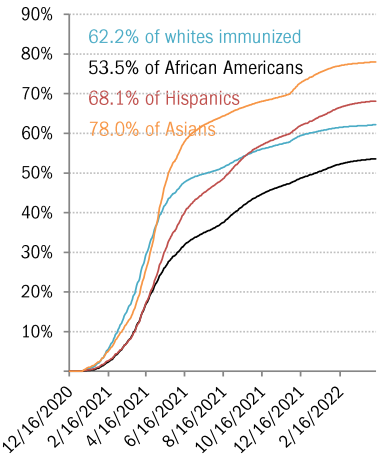
Best
Middle
Worst

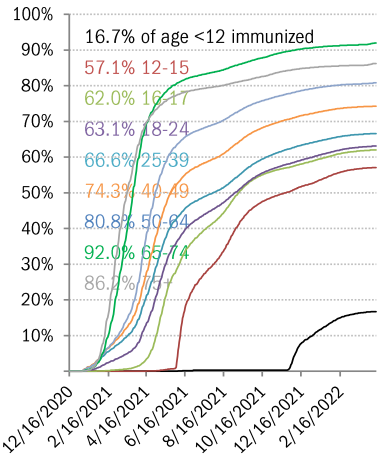
As of Apr 13

					WI					ME
					71.6%					89.9%
					65.3%					79.1%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
80.5%	60.9%	65.0%	64.7%	74.9%	76.5%	66.8%		89.8%	93.2%	90.6%
72.3%	53.8%	56.5%	54.7%	68.9%	68.5%	59.9%		76.5%	80.8%	69.8%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
77.6%	74.9%	58.6%	76.0%	67.8%	61.2%	63.4%	84.4%	90.0%	95.0%	
69.4%	60.5%	51.3%	60.9%	61.7%	54.6%	58.2%	68.0%	75.3%	78.5%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
83.0%	71.9%	79.1%	70.1%	66.0%	65.9%	64.8%	85.3%	86.6%	95.0%	95.0%
71.5%	64.0%	70.0%	63.3%	55.8%	57.2%	57.4%	72.8%	75.9%	78.8%	82.0%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	72.5%	87.1%	74.2%	66.4%	61.9%	83.6%	67.2%	95.0%	82.7%	
	61.2%	70.6%	61.0%	54.2%	54.3%	60.5%	56.6%	73.4%	68.7%	
			OK	LA	MS	AL	GA			
			70.8%	60.8%	59.4%	62.4%	65.1%			
			56.9%	53.3%	51.6%	50.8%	54.4%			
HI			TX					FL		PR
87.2%			72.6%					78.9%		94.7%
78.0%			61.1%					66.7%		82.8%

The demographics of US vaccination



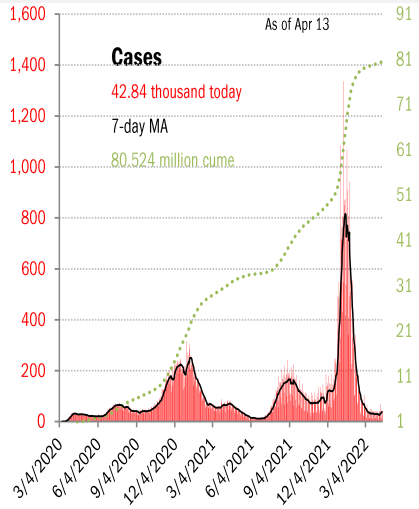


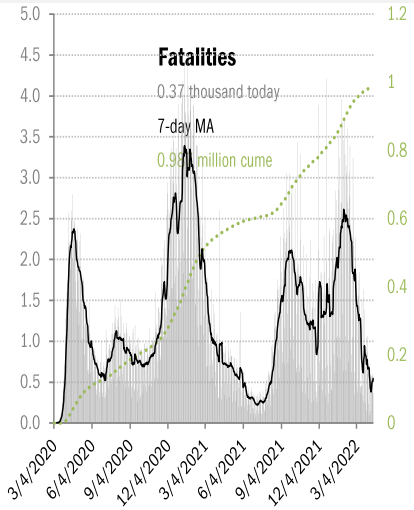


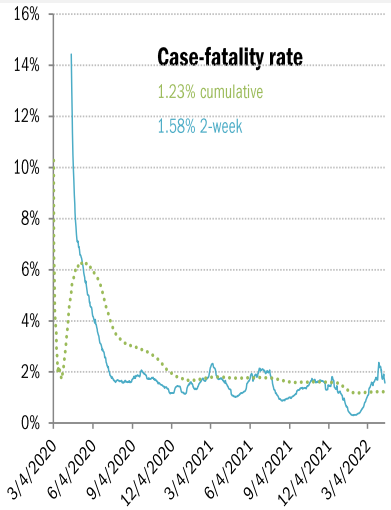
Source: CDC, CDC, Our World in Data, TrendMacro calculations

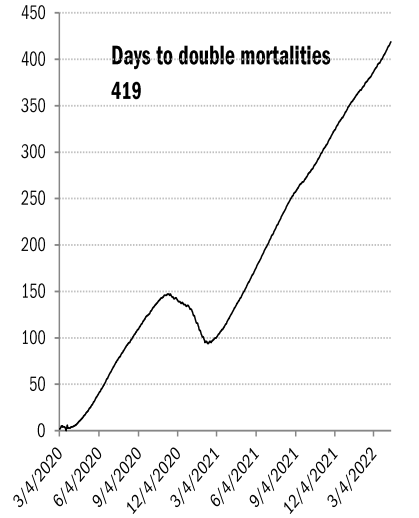
US deep-dive

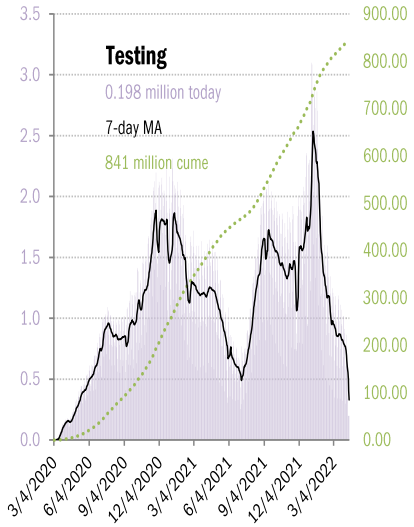
National and state-by-state data do not line up because of different sources

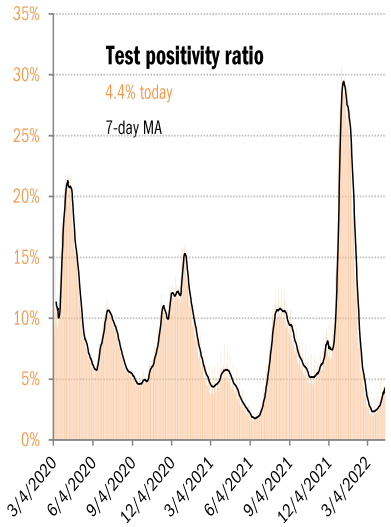


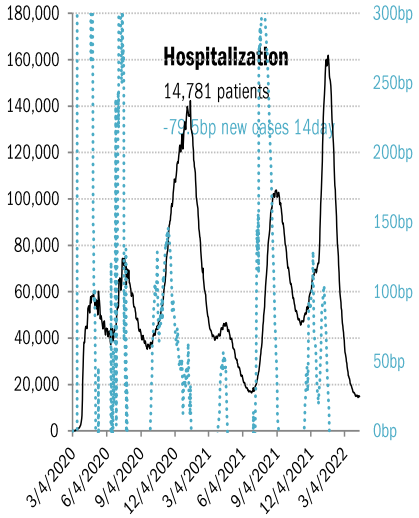


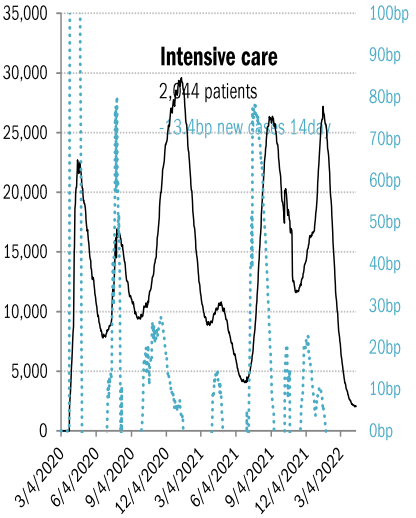


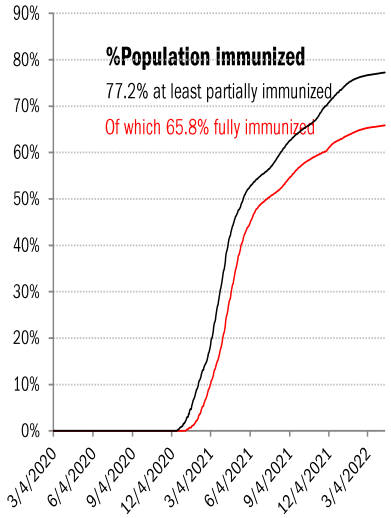












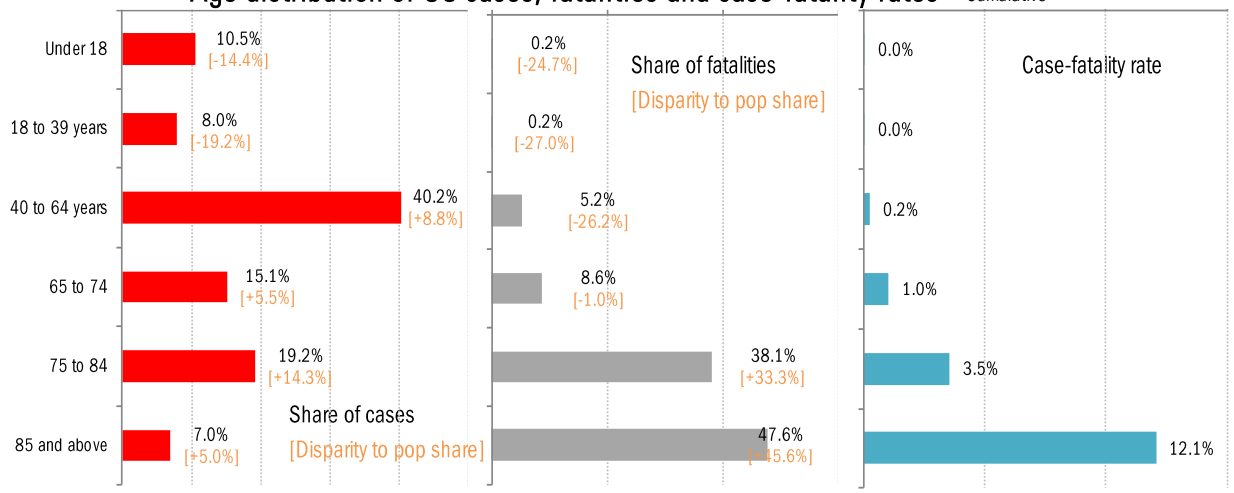
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

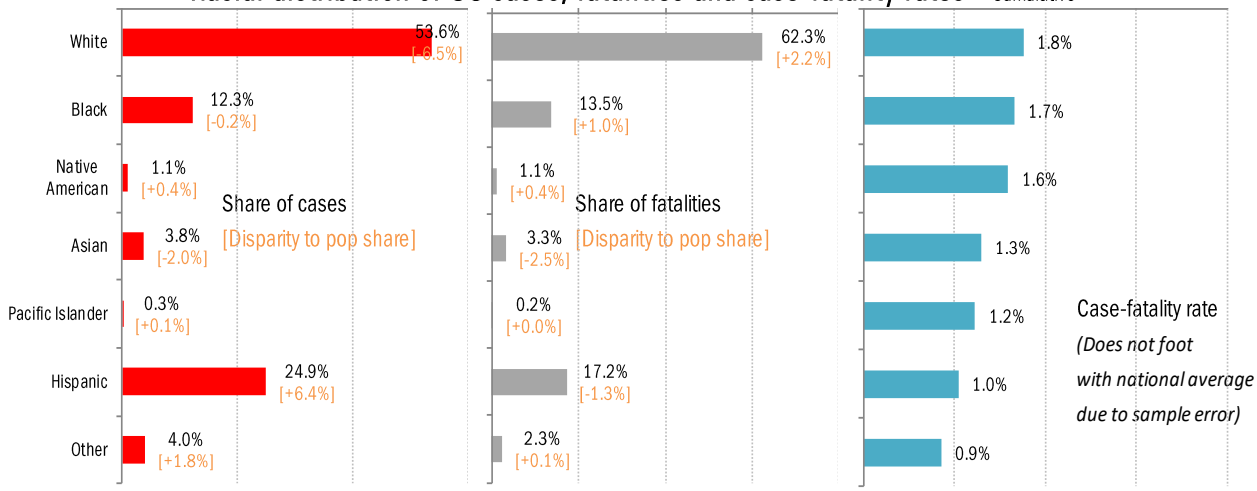
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



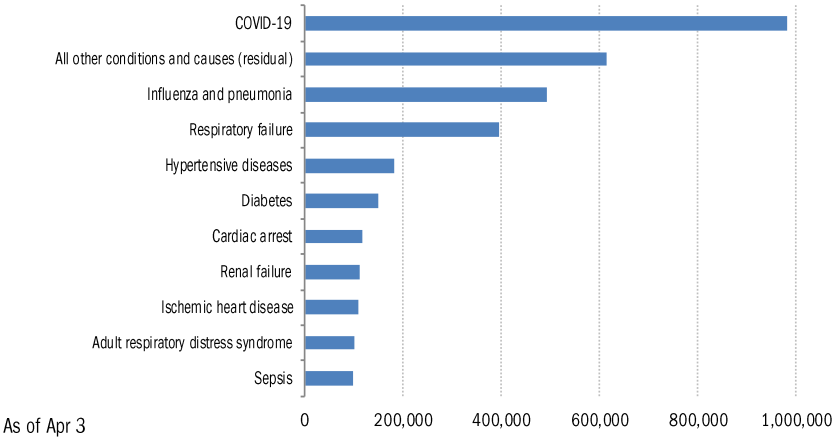
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Apr 3

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

Covid cases are on the rise, yet few precautions have come back. Why?
Elizabeth Chuck
NBCNews
April 13, 2022

Shanghai Begins to Ease 2-Week Shutdown
Joe McDonald
The Diplomat
April 12, 2022

The rest of the world should watch what is happening in Shanghai
Robin Harding
Financial Times
April 12, 2022

McKinsey Opened a Door in Its Firewall Between Pharma Clients and Regulators
Chris Hamby, Walt Bogdanich, Michael Forsythe and Jennifer Valentino-DeVries
New York Times
April 13, 2022

CDC extends travel mask requirement to May 3 as COVID rises
Zeke Miller and David Koenig
AP
April 13, 2022

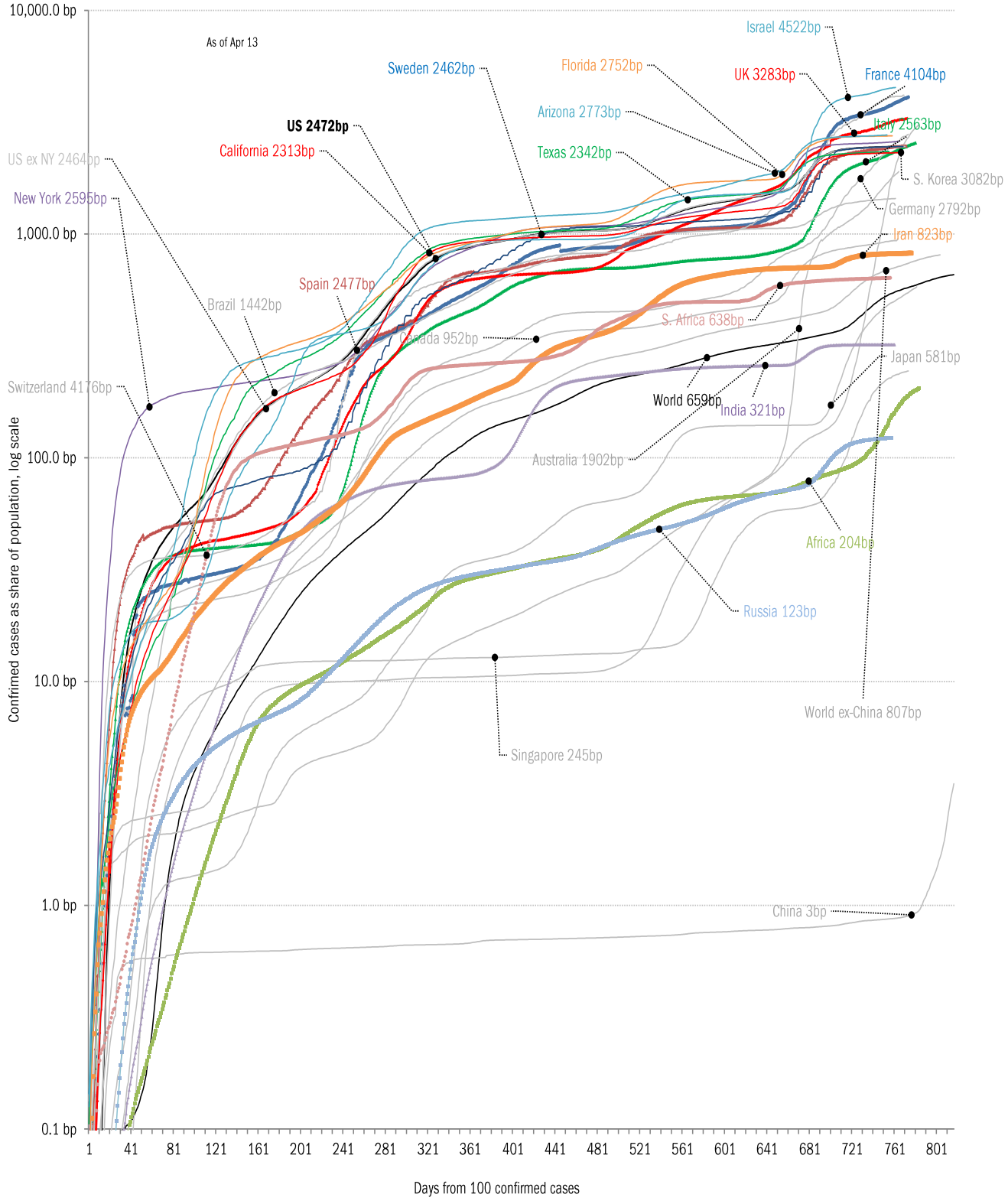
Meme of the day (click on the picture, or here)

Addicted To Masks? Maskers Anonymous Can Help.

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

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

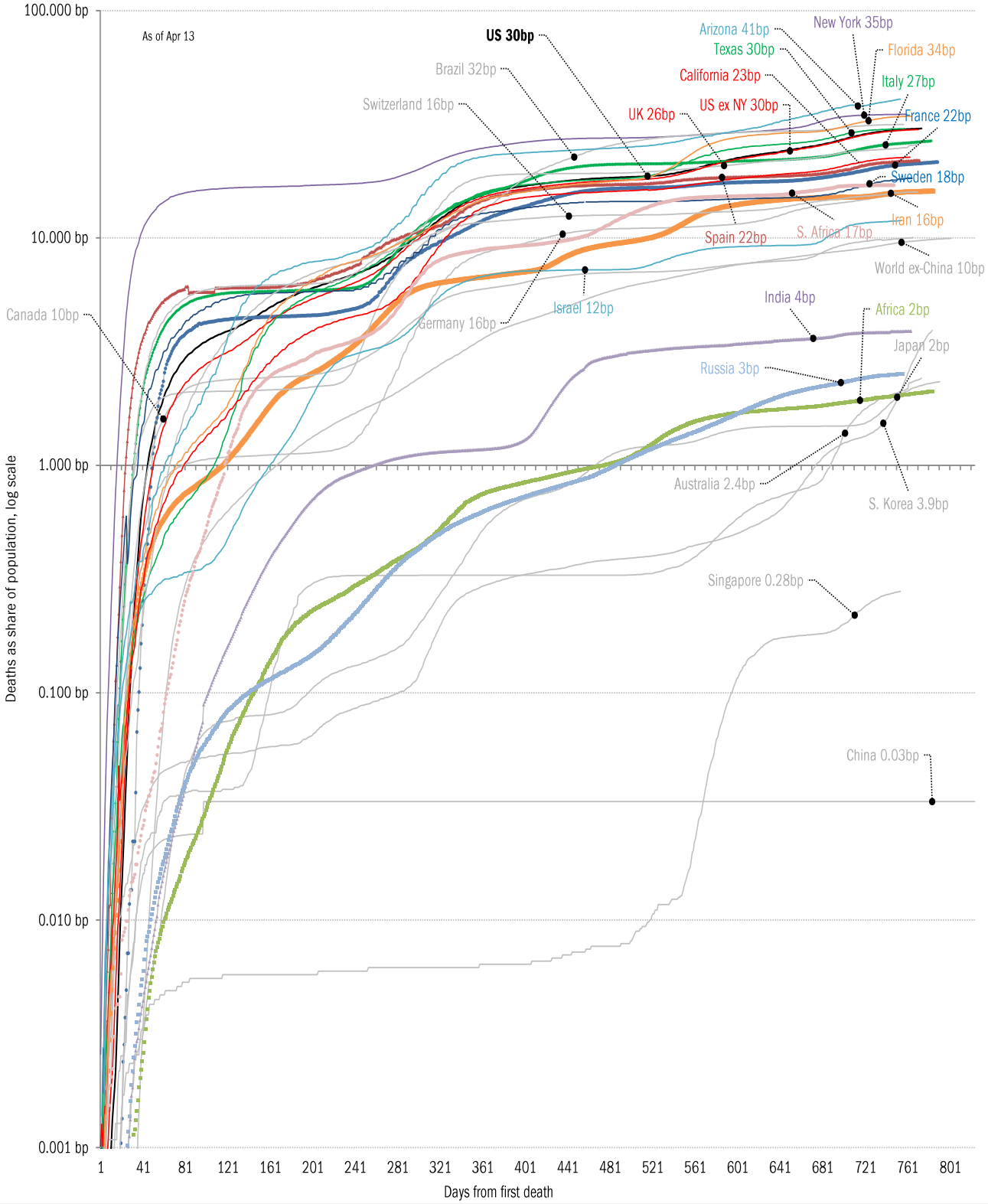
Share of infected population from first day with 100 confirmed cases, log scale



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

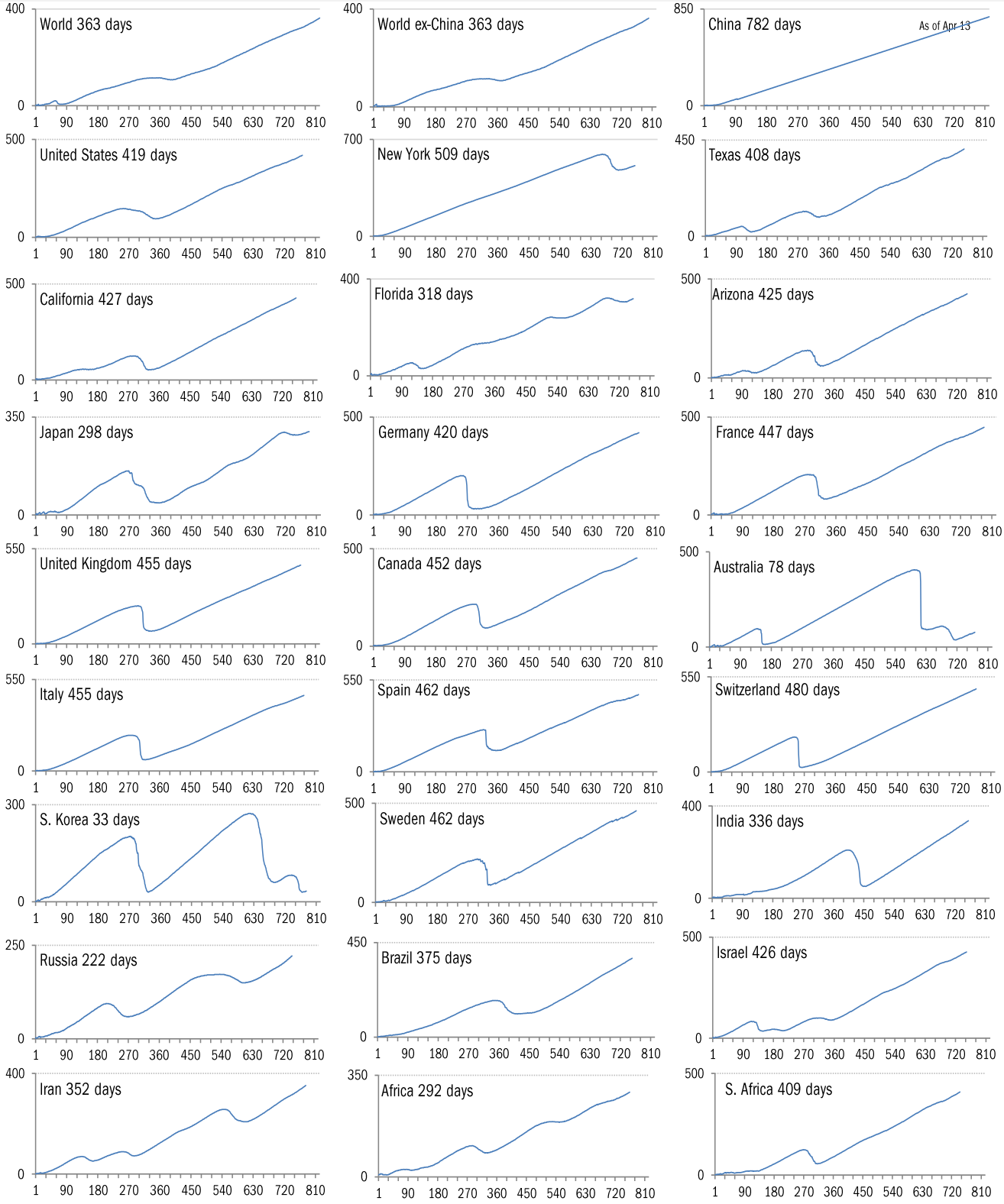


Source: Johns Hopkins, TrendMacro calculations

"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

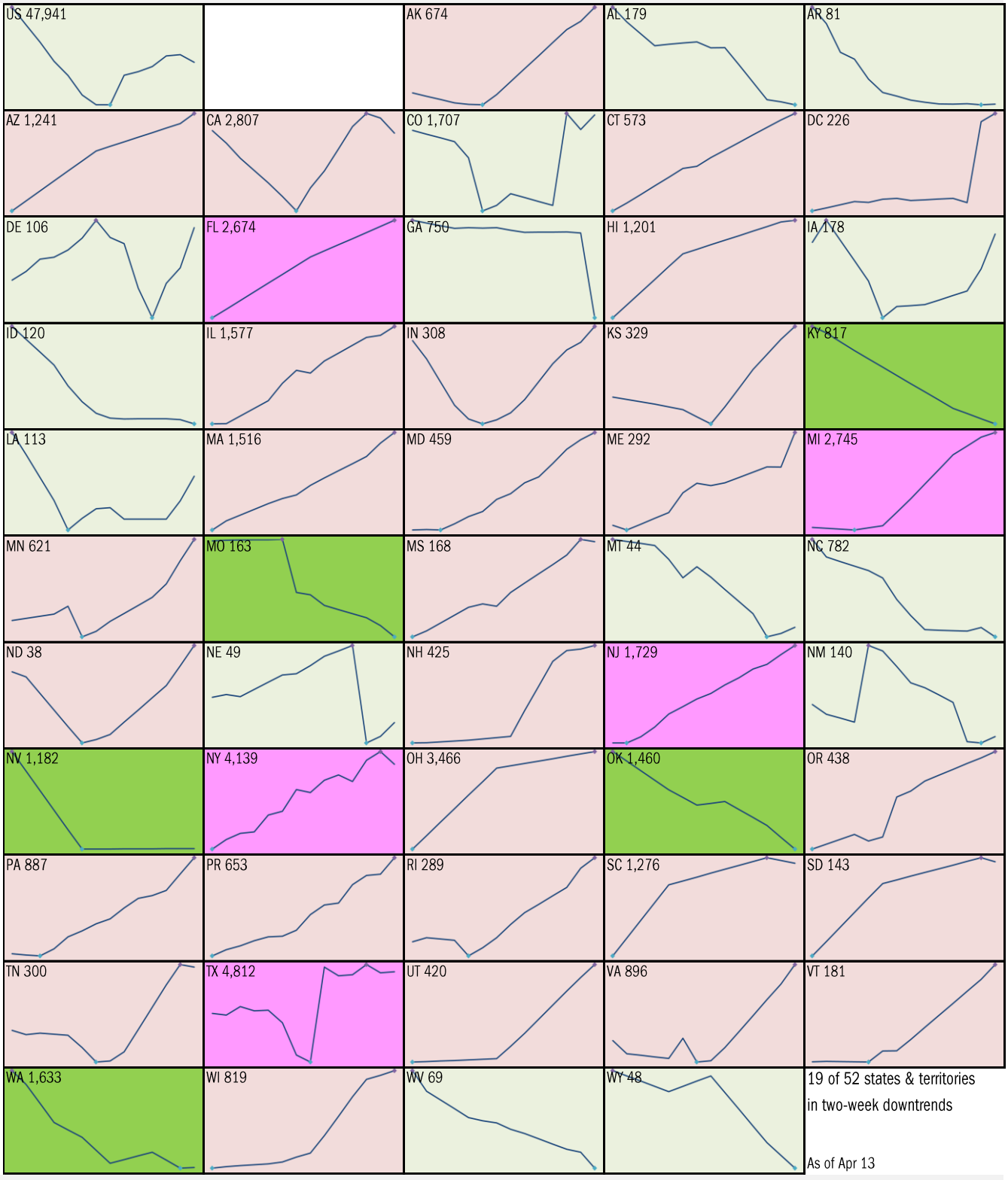


Source: Johns Hopkins, TrendMacro calculations

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

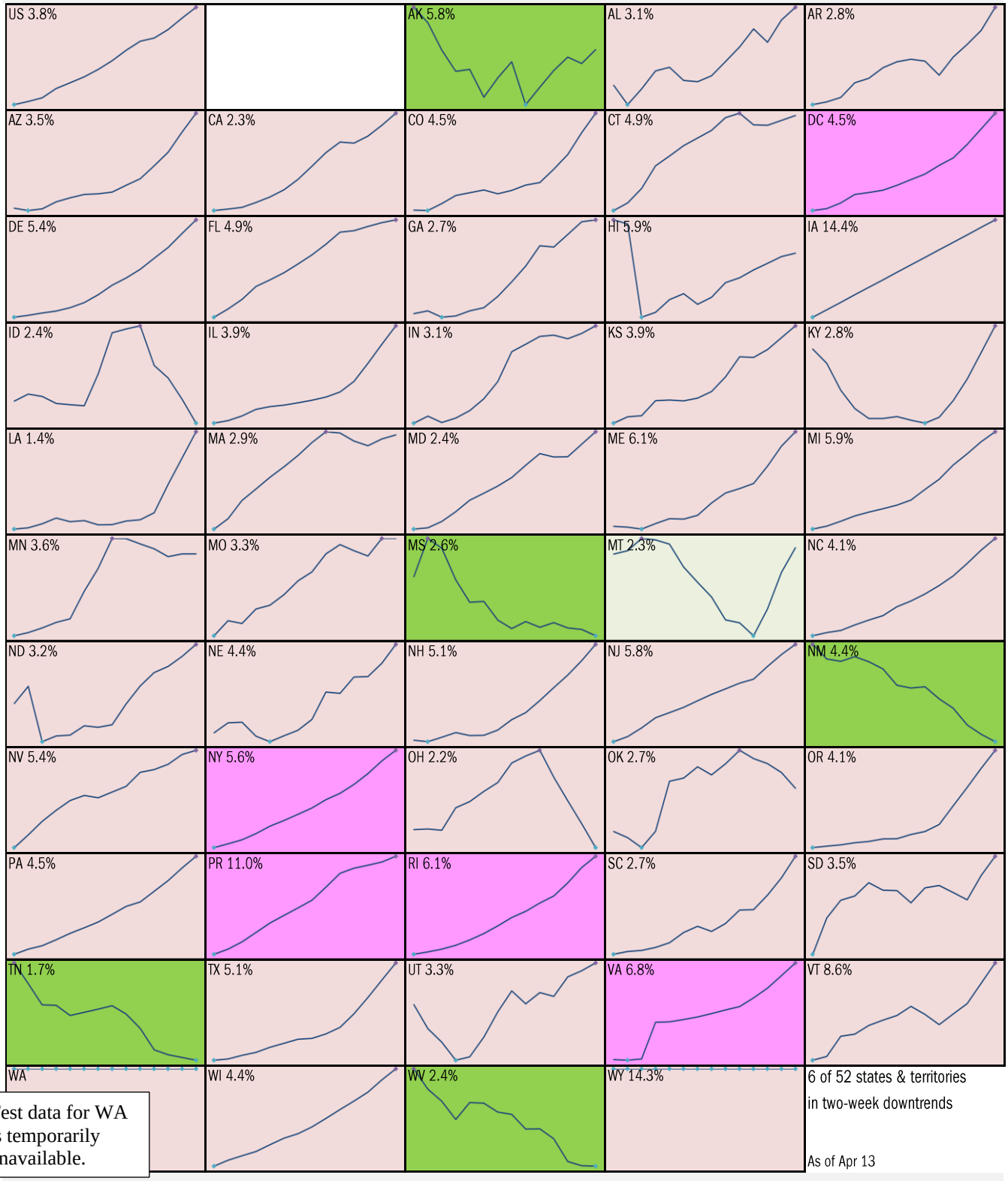


Source: Johns Hopkins, TrendMacro calculations

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

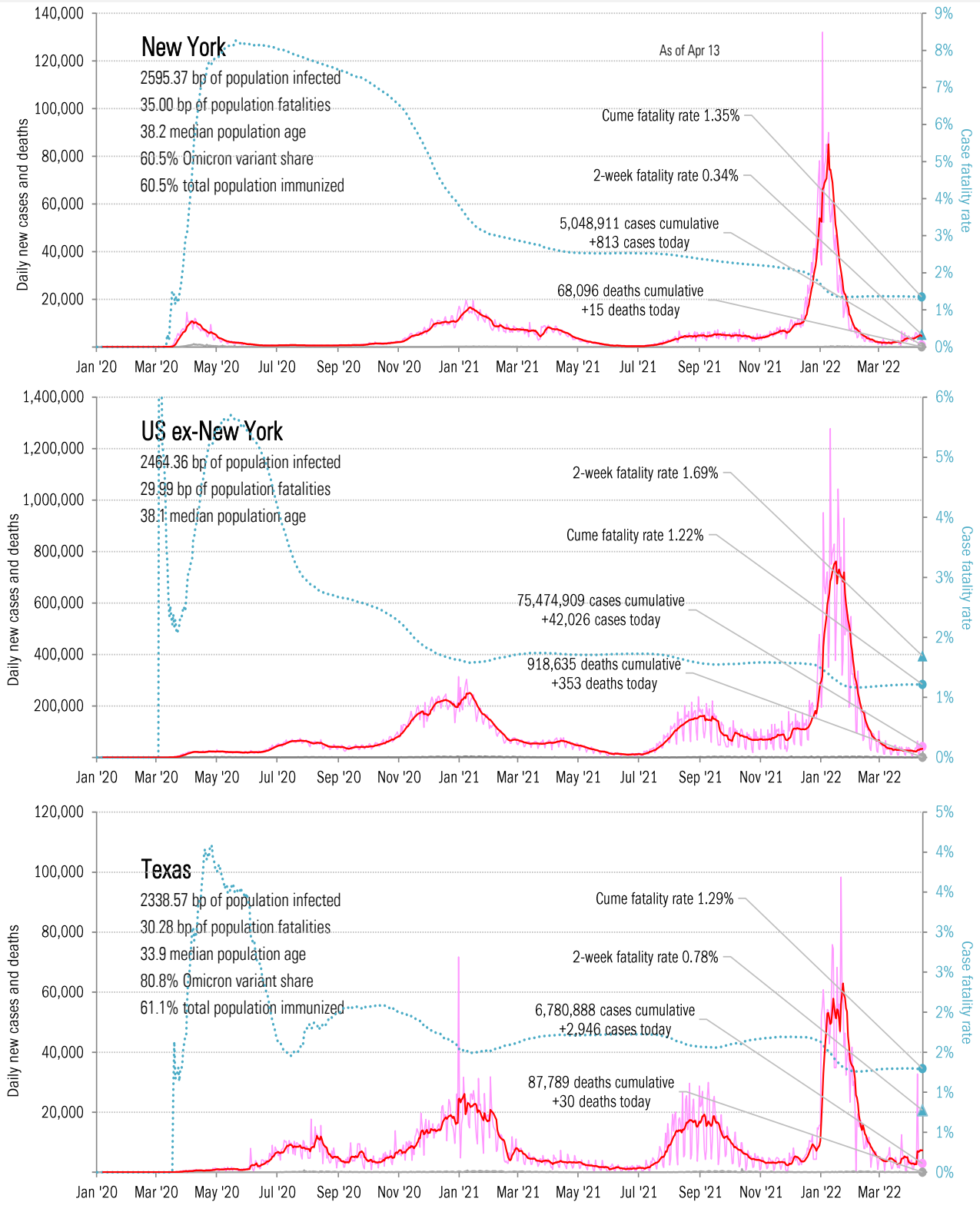


Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

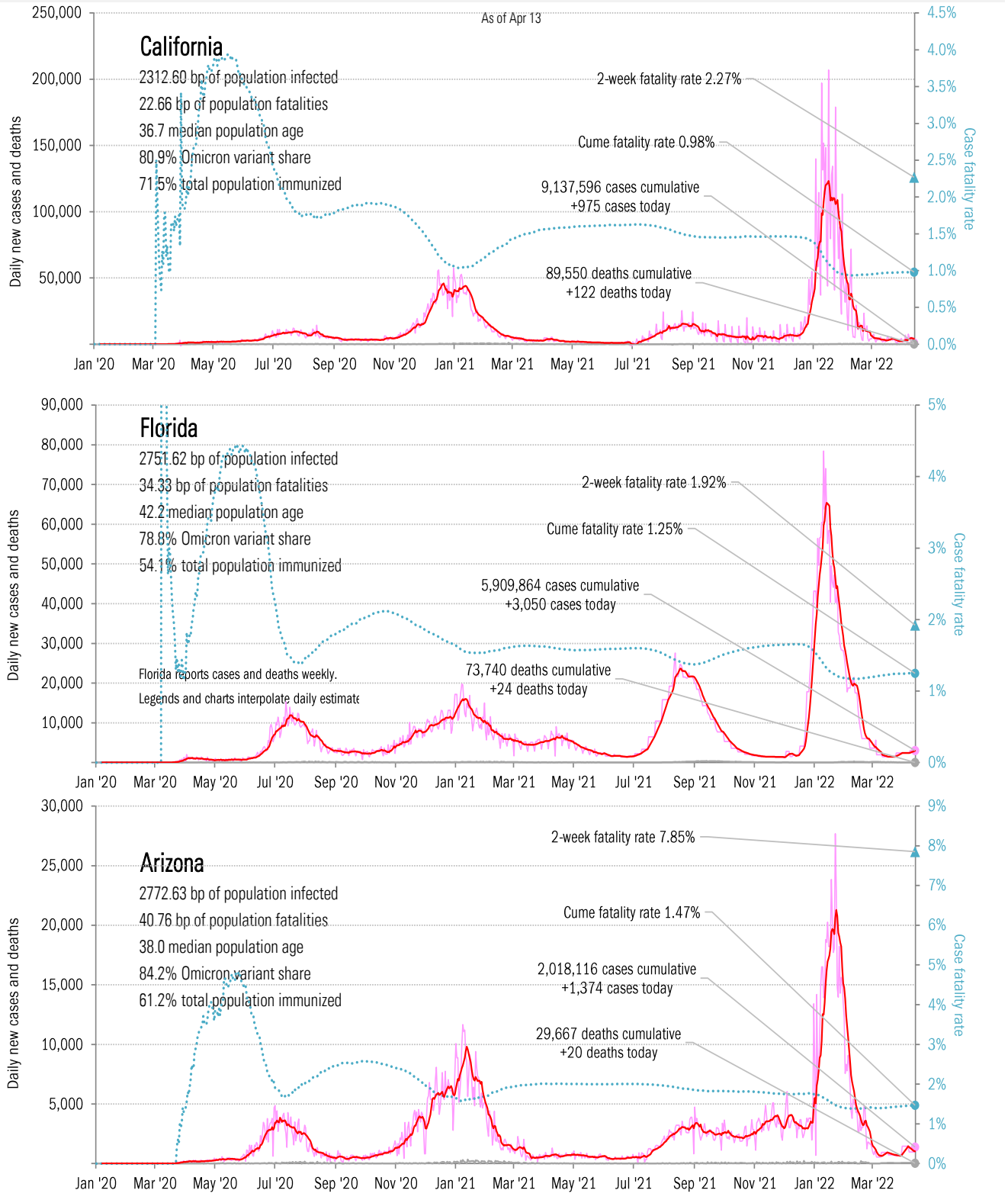
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

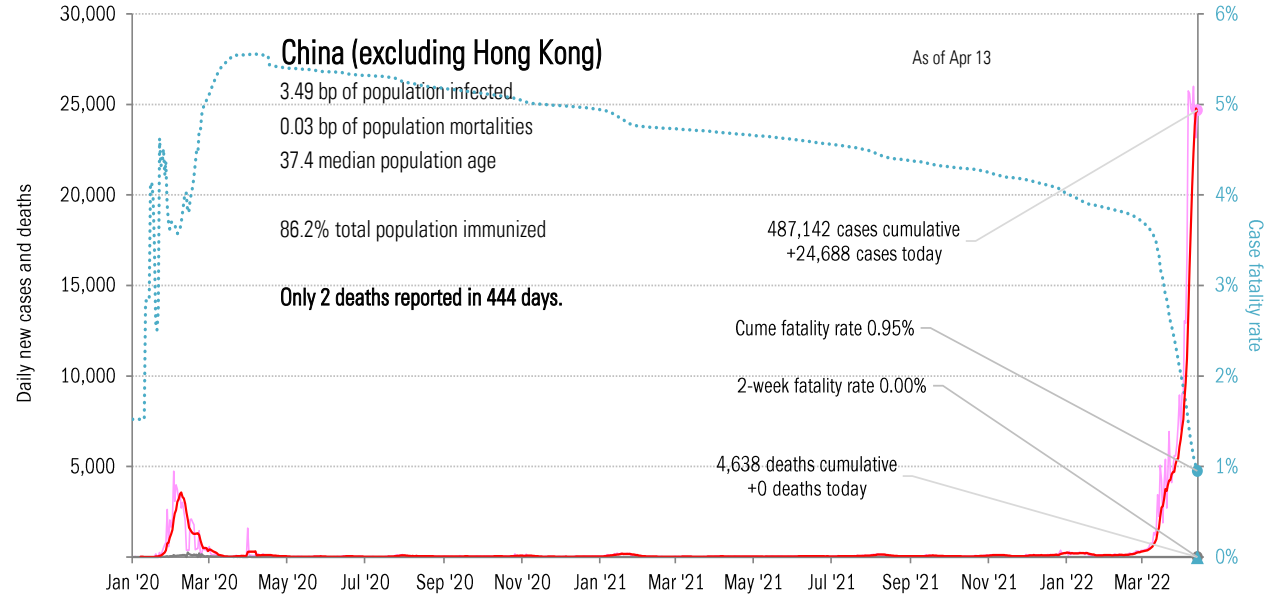
Cases: 7-day average and daily Deaths: Daily

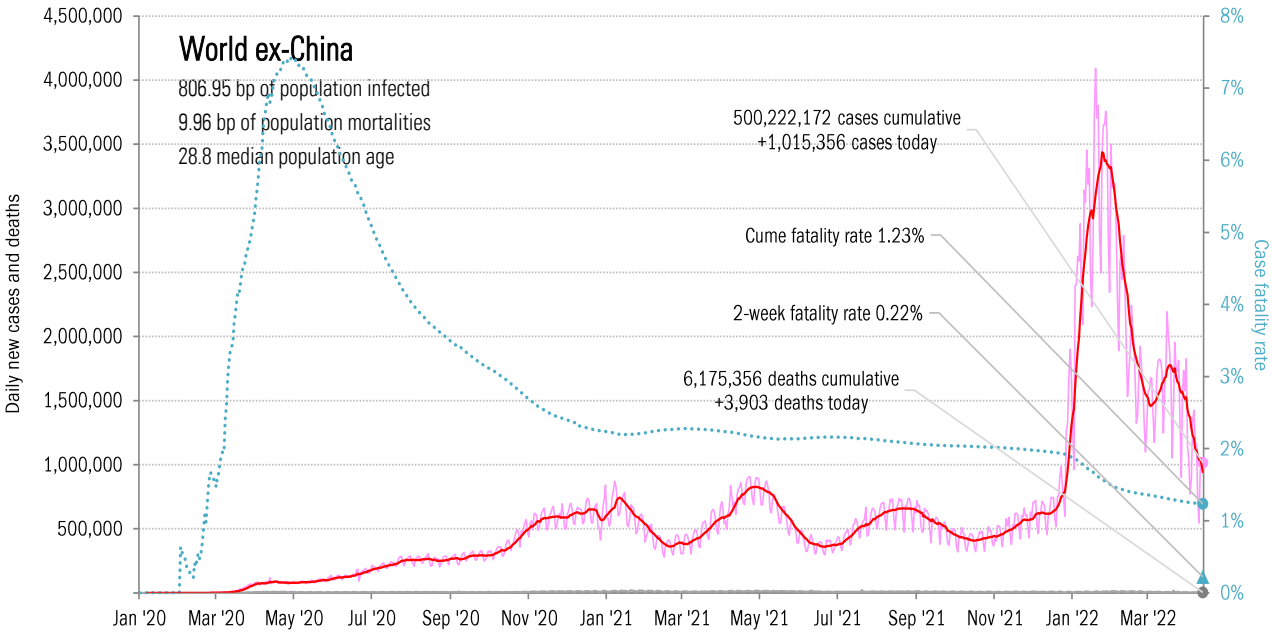


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

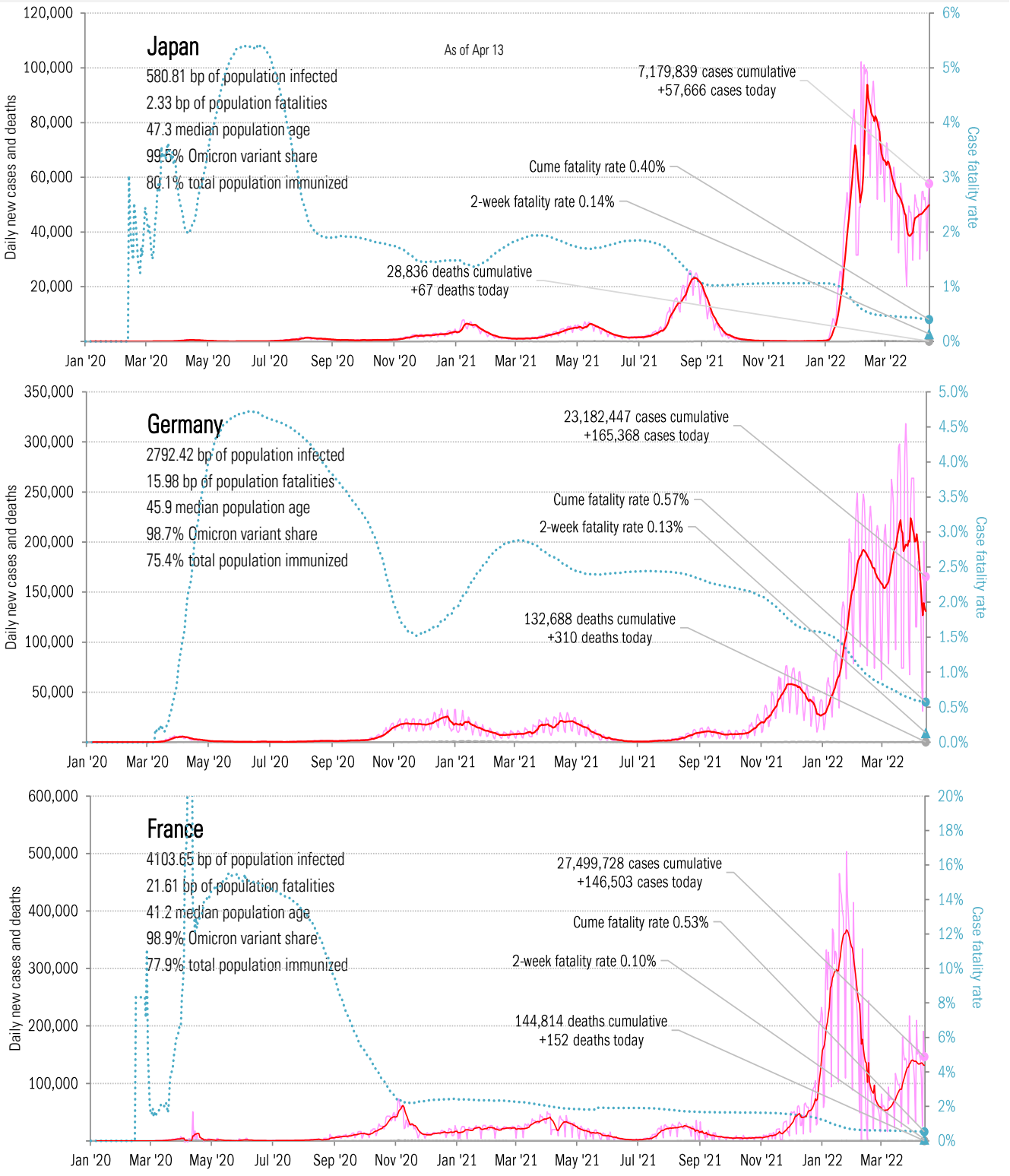




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

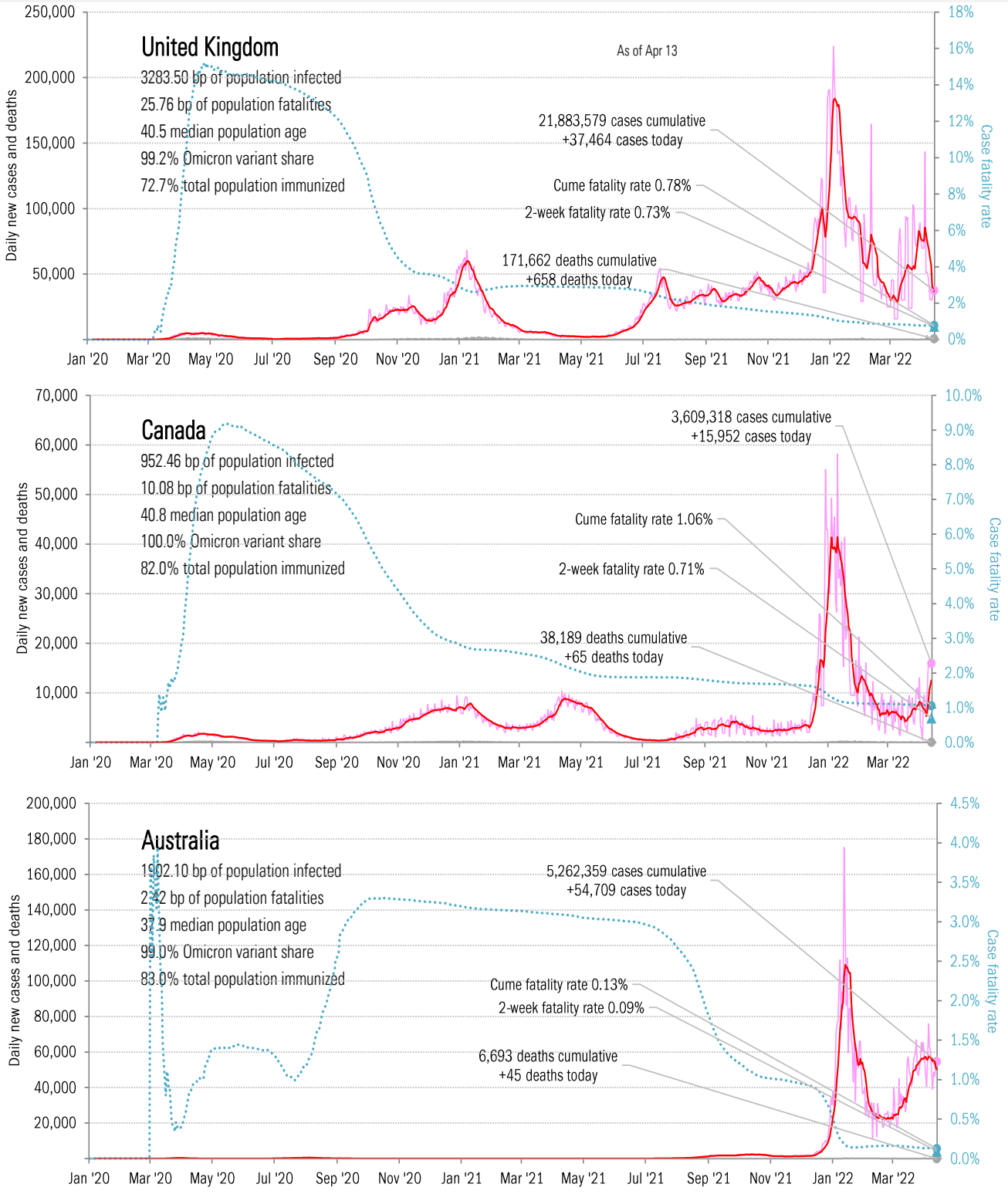
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

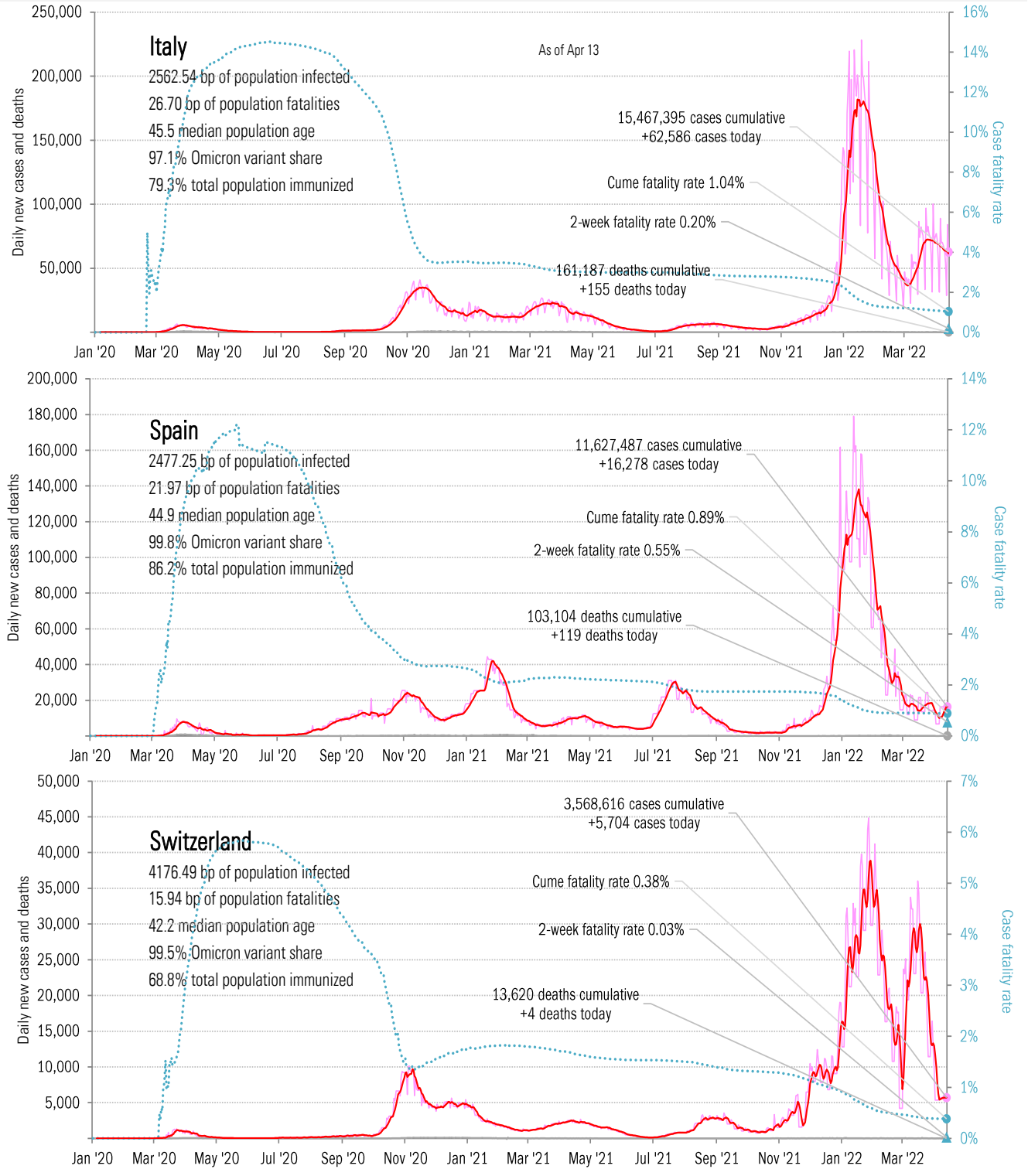
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

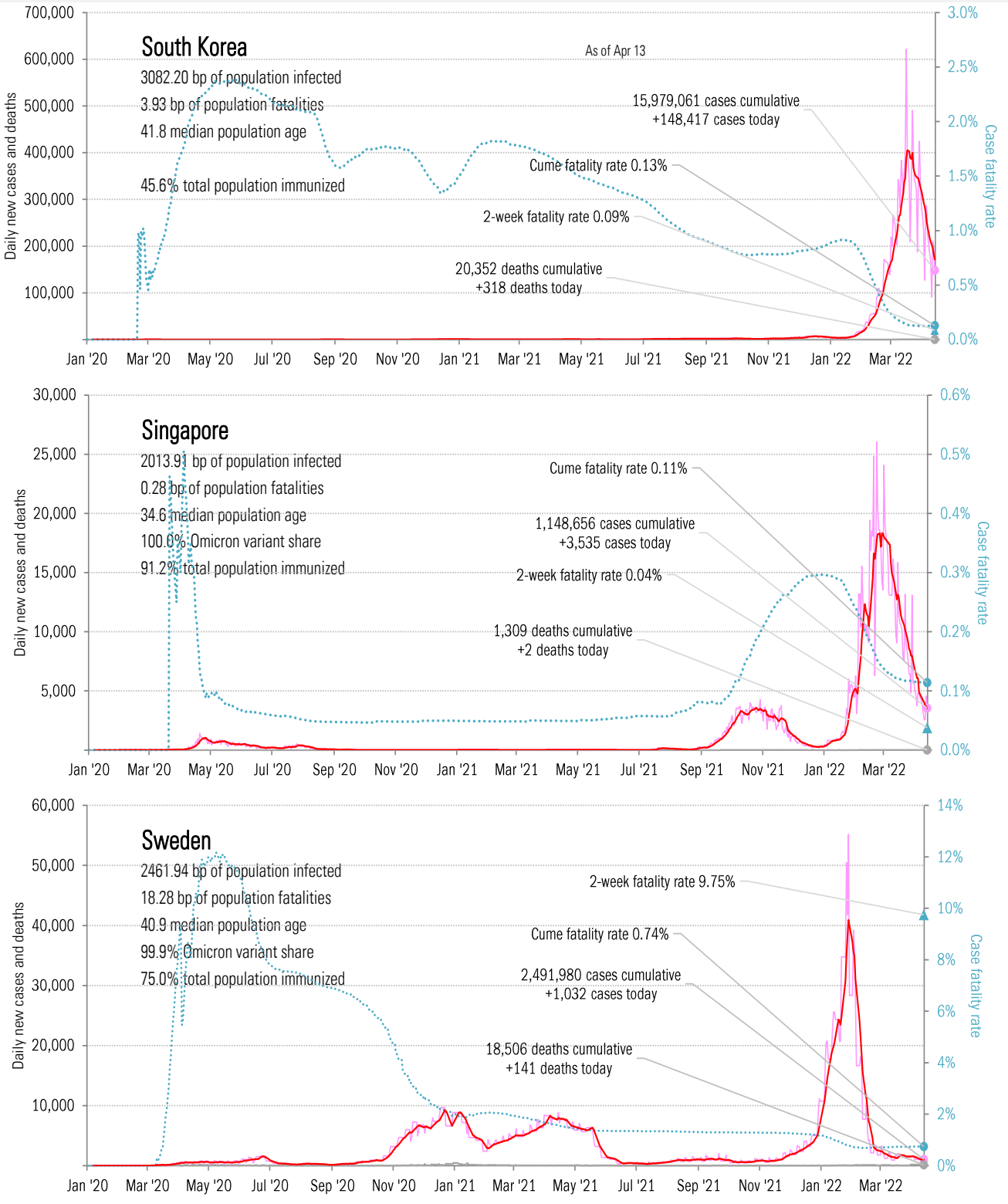
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

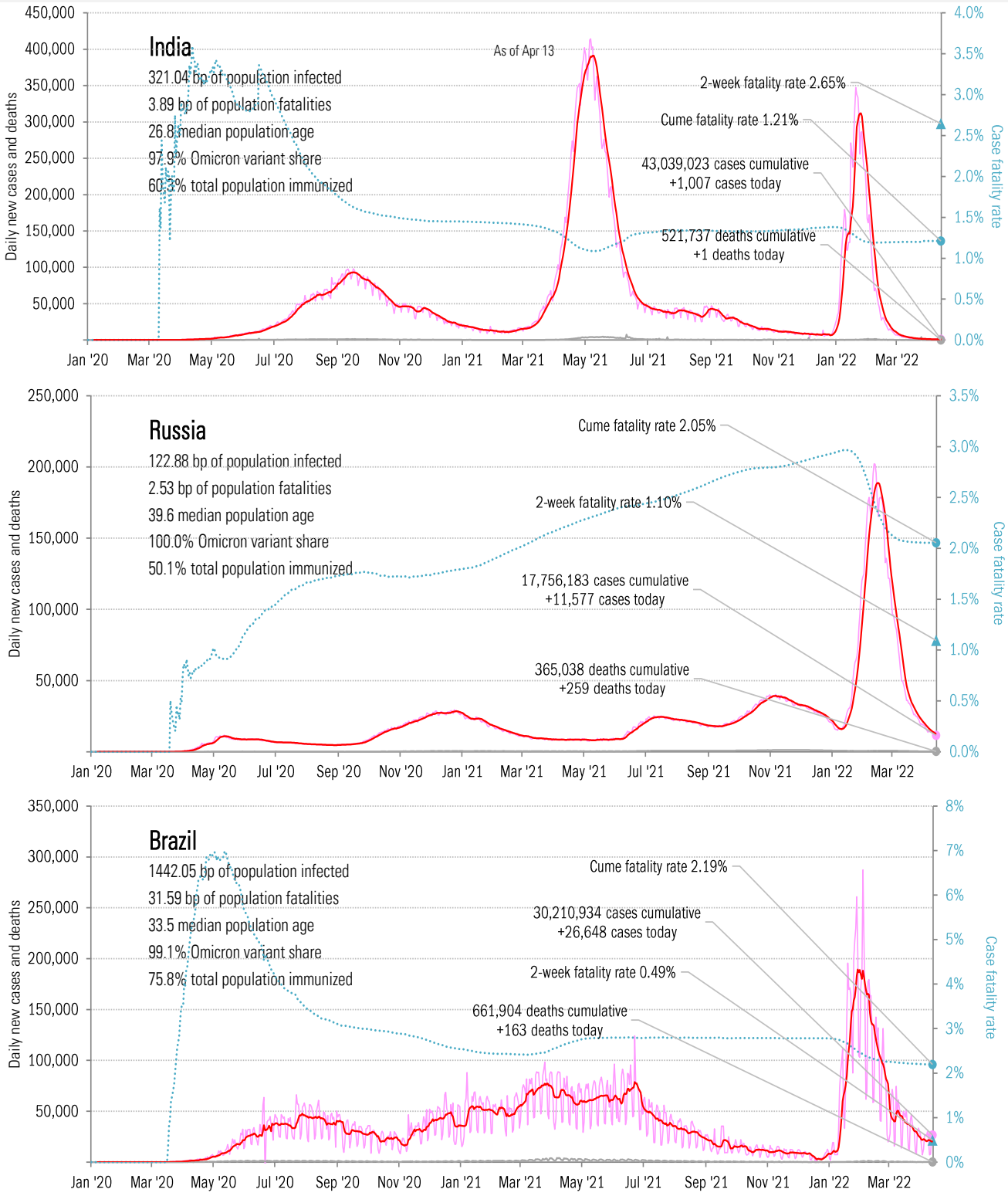
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

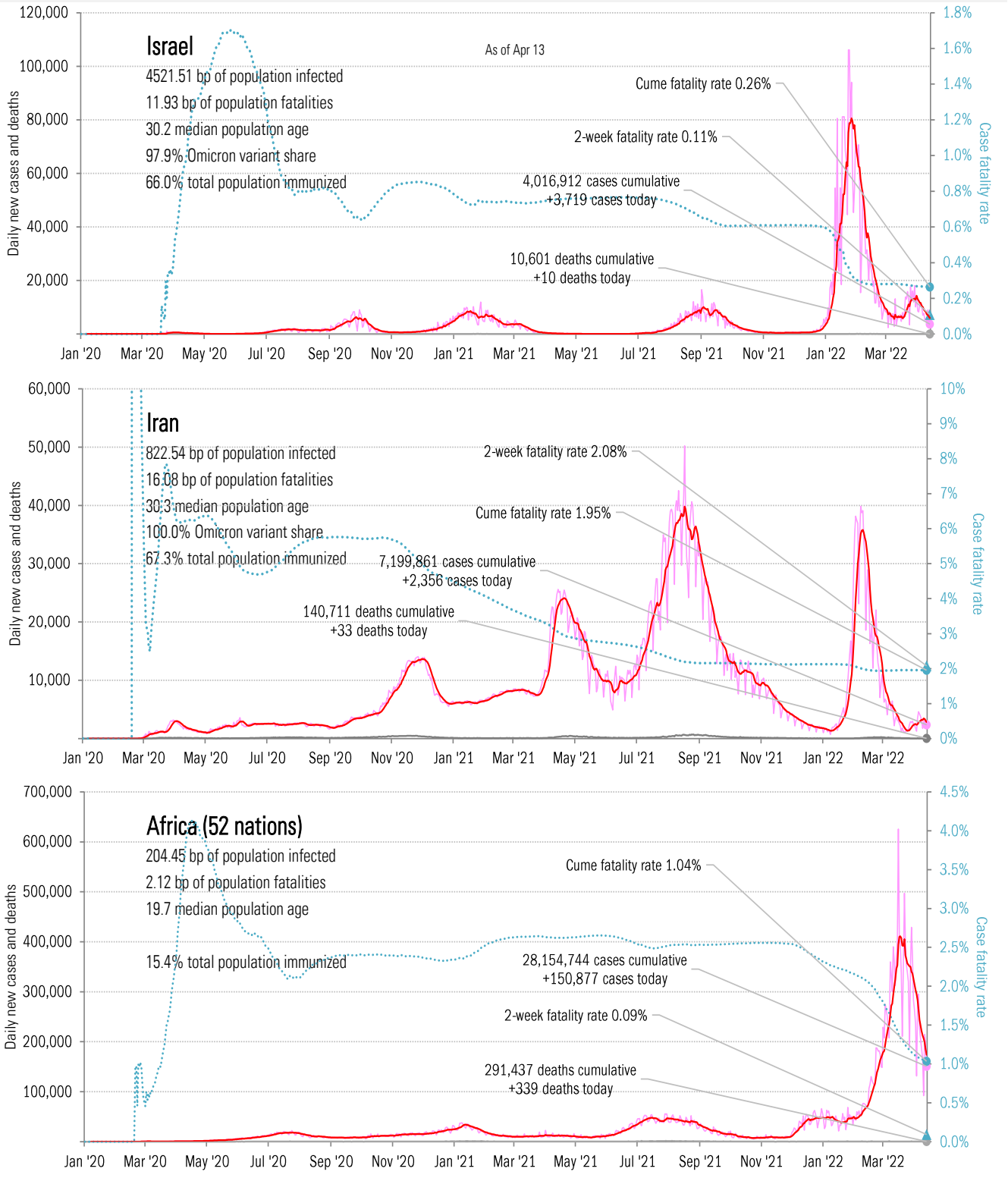
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

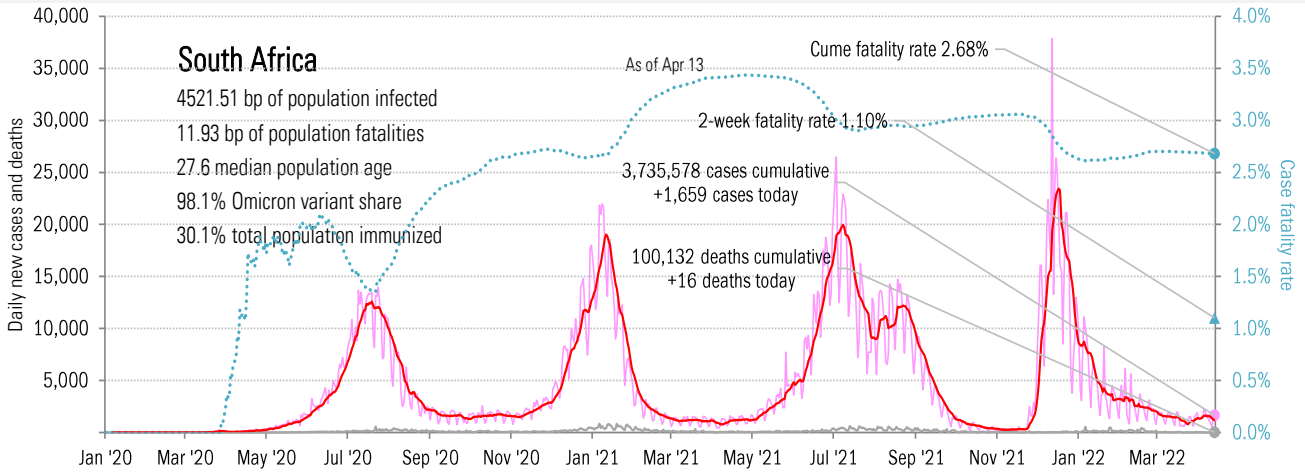
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations