Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

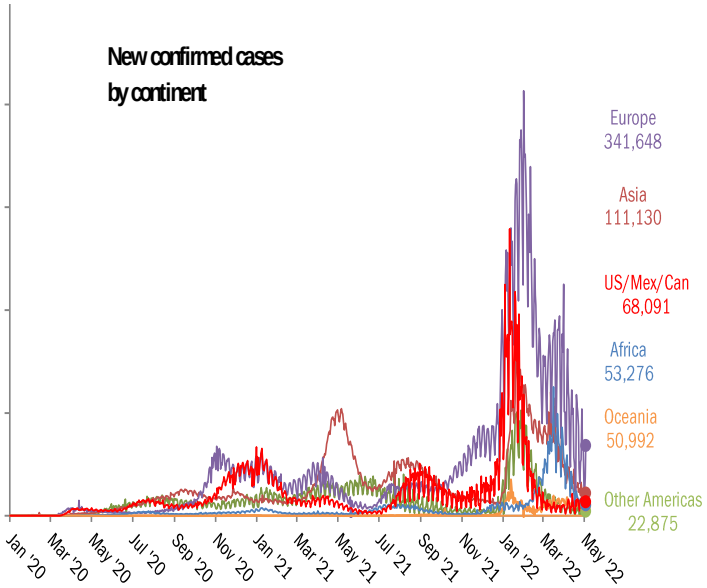
Wednesday, May 4, 2022

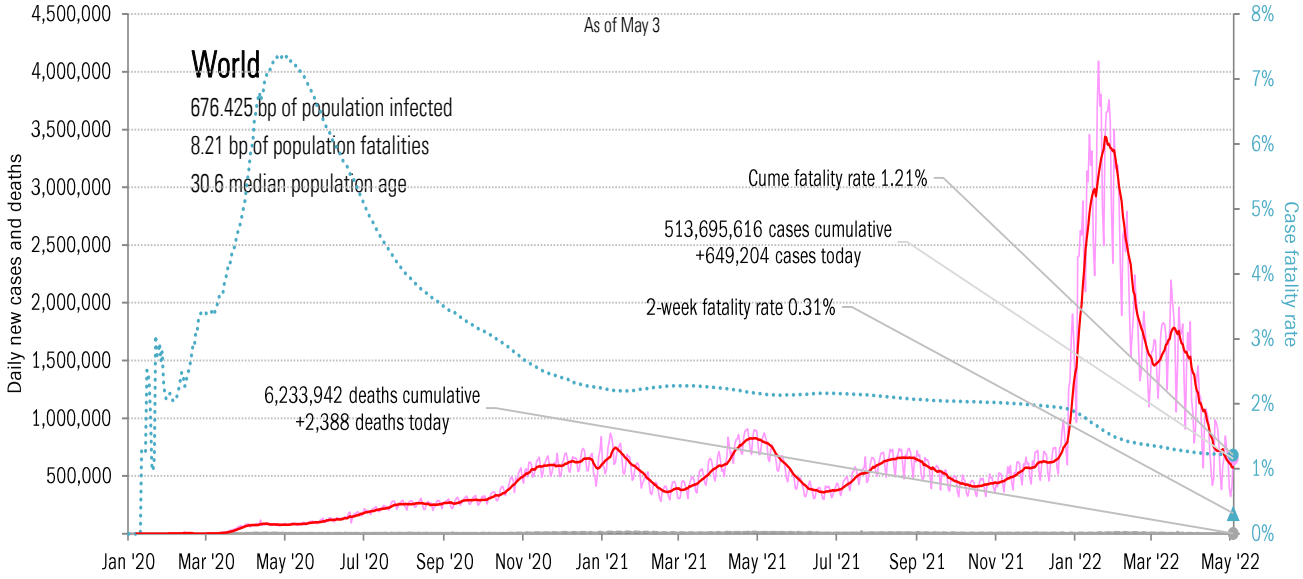
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Germany	106,631	United States	529
France	67,113	United Kingdom	407
United States	62,935	Germany	241
Italy	62,409	Italy	153
Korea, South	49,038	Russia	121
Australia	42,324	France	120
Taiwan*	40,987	Brazil	92
United Kingdom	35,550	Thailand	82
Japan	30,427	Korea, South	72
Portugal	25,123	Portugal	57
	522,537		1,874
World	649,204	World	2,388
Top ten	80%	Top ten	78%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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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

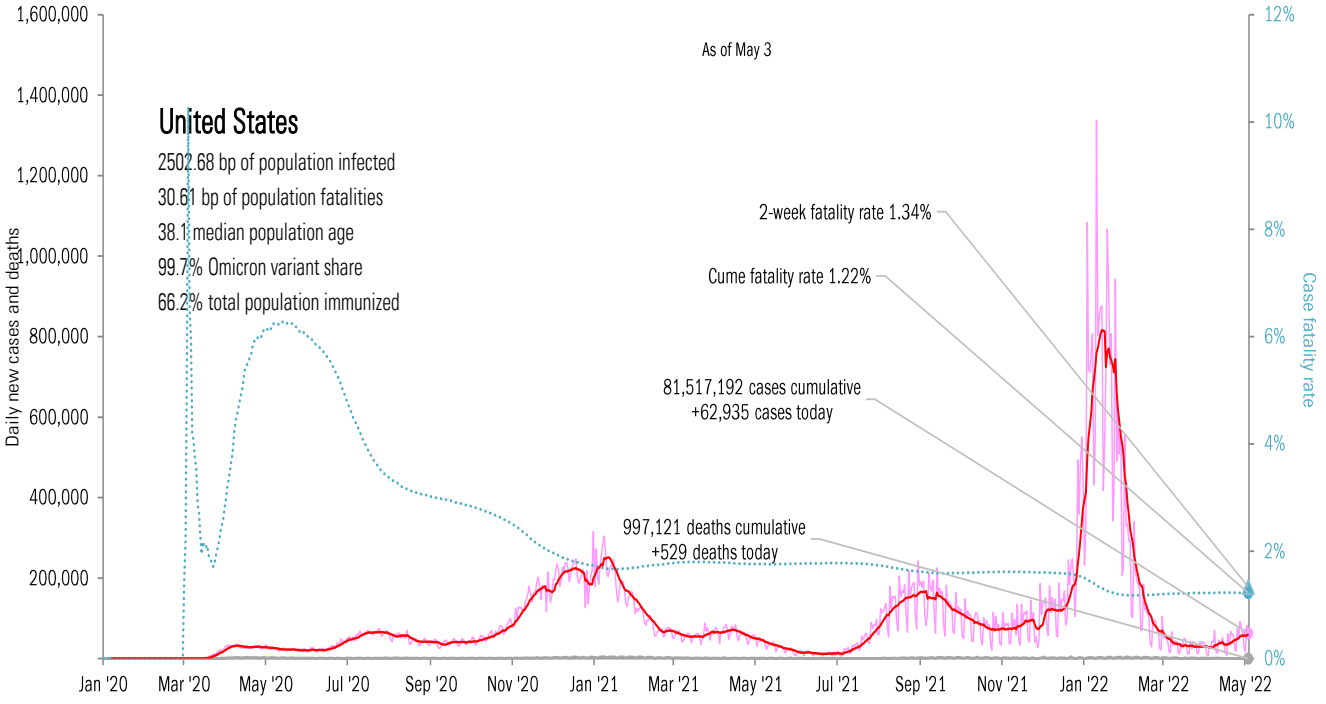
New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	19,151	CO	307	AZ	109	CA	9,261,886	CA	90,442	TX	490,392	RI	88%	RI	82%
NY	6,106	CA	102	KY	80	TX	6,832,953	TX	88,126	CA	427,157	MA	83%	NM	81%
IL	4,043			OH	86	FL	5,949,142	FL	74,133	FL	417,454	WA	81%	MA	78%
SC	3,073			MO	48	NY	5,188,149	NY	68,387	NY	251,816	MN	81%	TX	78%
MA	2,967			MA	91	IL	3,151,710	PA	44,713	GA	207,794	PA	80%	KY	77%
TX	2,846			PA	96	PA	2,825,267	OH	38,428	OH	192,187	MI	78%	DE	77%
NJ	2,643			MI	108	OH	2,697,058	GA	37,806	PA	177,597	DC	78%	AL	77%
MN	2,500	MD	15	CO	37	NC	2,659,255	IL	36,062	IL	158,823	GA	78%	MI	77%
MD	2,233	MO	15	LA	33	GA	2,515,139	MI	36,002	MI	142,961	MO	77%	DC	77%
PA	2,134	AZ	14	NV	20	MI	2,425,946	NJ	33,455	KY	133,388	DE	77%	WA	76%
	47,696		620		708		43,506,505		547,554		2,599,569				
All states	62,935		529		2,045	All states	81,517,192		997,121		4,719,894	All states	70%		67%
Top ten	76%		117%		35%	Top ten	53%		55%		55%	Median	72%		68%

US state 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	
WA	-12,169	FL	-144	NY	-161	ME	+10 bp
FL	-6,704	DE	-12	NJ	-92	MI	+10 bp
IL	-4,942	MT	-11	IL	-79	VT	+10 bp
MA	-3,784	LA	-8	CA	-56	IL	+10 bp
AZ	-3,028	MA	-7	FL	-56	AK	+0 bp



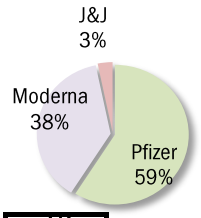
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	592,223,126				+0.269 million
Boosters	102,134,170				+0.053 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	265,597,274	79%	226,150,816	68%	+0.036 million
Age 12 to 17	17,730,519	70%	15,121,413	60%	+0.002 million
Age 18 to 64	178,611,542	88%	151,501,455	74%	+0.018 million
Age 65 and over	58,937,176	100%	51,218,772	93%	+0.012 million

Immunity	Full	Partial
US	66.2%	77.7%
UK	72.9%	78.0%
France	77.9%	80.2%
Spain	86.5%	88.1%
Germany	76.8%	76.9%
Italy	79.4%	84.1%
Australia	83.5%	86.4%
Israel	66.1%	72.2%
Canada	82.3%	87.3%
Japan	80.6%	81.9%
Africa	16.7%	22.1%
India	61.9%	72.1%
Brazil	76.7%	85.4%
China	86.5%	89.0%

Global data differs due to sources, timing



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

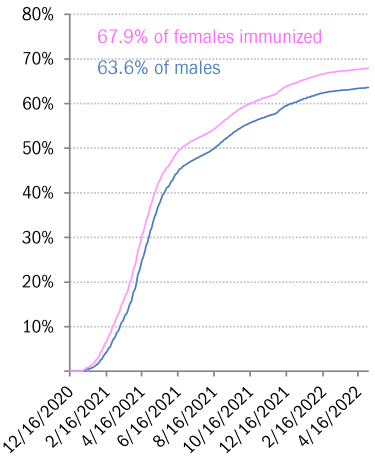
"Immunity" = two doses

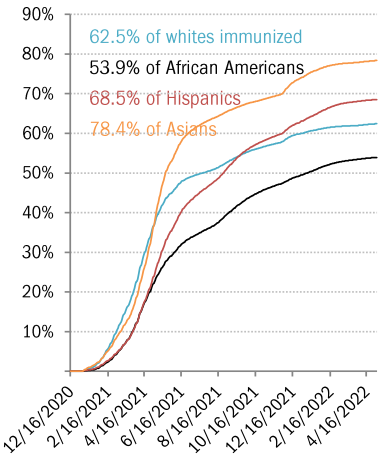
Best
Middle
Worst

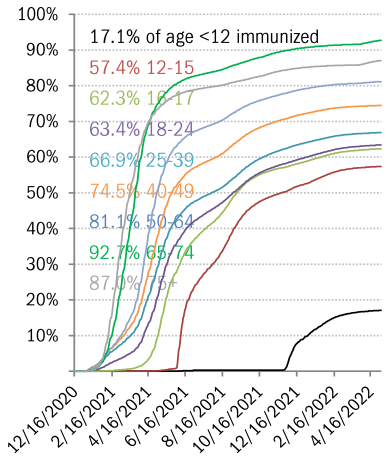
As of May 3

					WI					ME
					71.8%					90.5%
					65.6%					79.6%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
80.8%	61.1%	65.3%	64.9%	75.1%	76.7%	67.0%		90.2%	93.5%	88.1%
72.6%	54.1%	56.8%	54.9%	69.2%	68.8%	60.2%		76.9%	81.2%	70.4%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
77.9%	75.3%	58.8%	76.5%	68.0%	61.5%	63.6%	84.9%	90.4%	95.0%	
69.6%	60.8%	51.6%	61.5%	62.0%	54.8%	58.4%	68.5%	75.6%	79.0%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
83.8%	72.1%	79.4%	70.3%	66.2%	66.2%	65.0%	85.7%	86.5%	95.0%	95.0%
72.1%	64.3%	70.3%	63.6%	56.1%	57.4%	57.6%	73.2%	75.7%	79.2%	82.6%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	73.1%	87.7%	74.5%	66.7%	62.2%	84.2%	67.7%	95.0%	83.1%	
	61.6%	71.1%	61.4%	54.4%	54.5%	61.1%	57.0%	77.5%	69.2%	
			OK	LA	MS	AL	GA			
			71.1%	61.0%	59.6%	62.7%	65.4%			
			57.3%	53.5%	51.8%	51.1%	54.8%			
HI			TX					FL		PR
87.4%			73.2%					79.3%		95.0%
78.3%			61.5%					67.0%		83.0%

The demographics of US vaccination



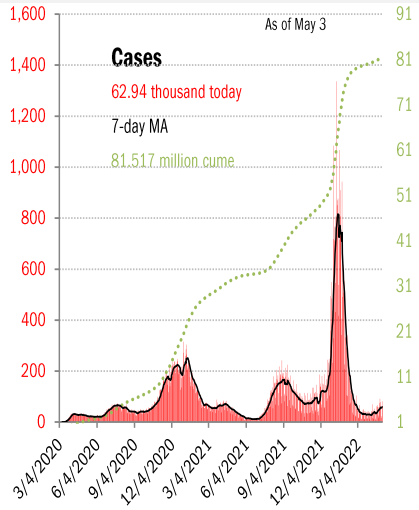


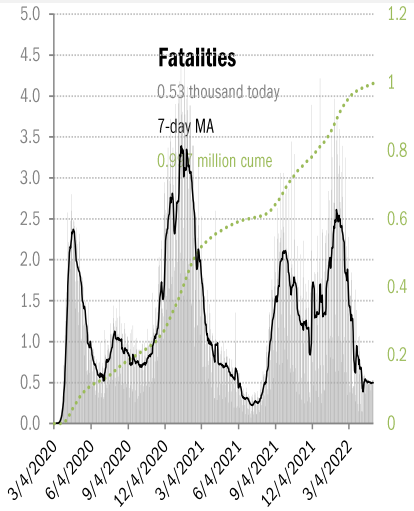


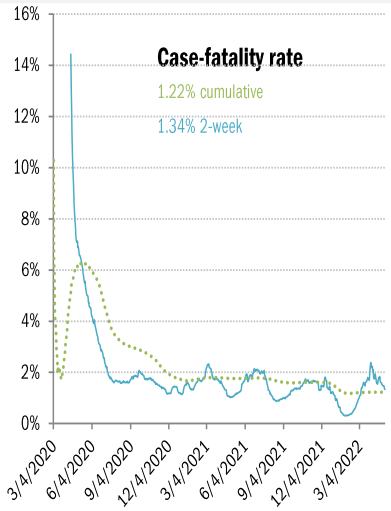
Source: CDC, CDC, Our World in Data, TrendMacro calculations

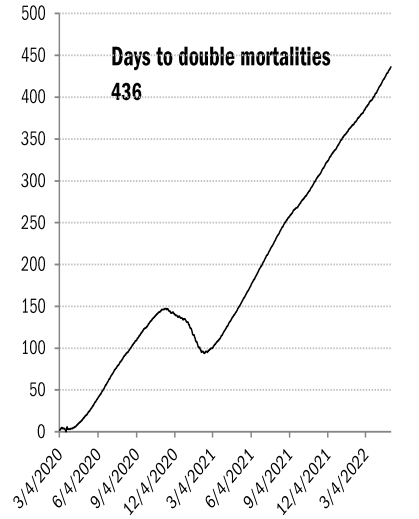
US deep-dive

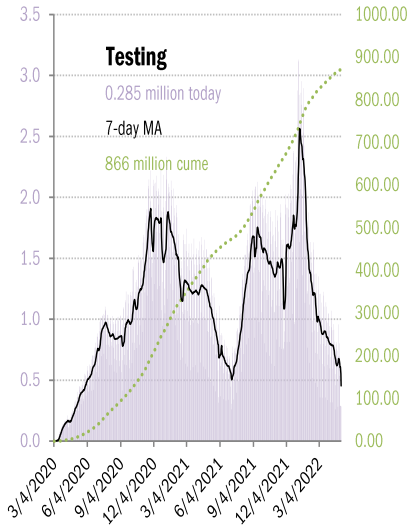
National and state-by-state data do not line up because of different sources

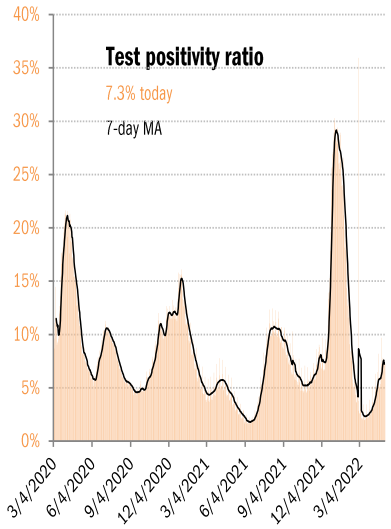


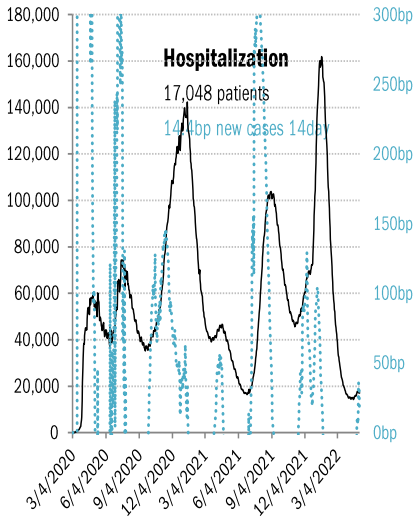


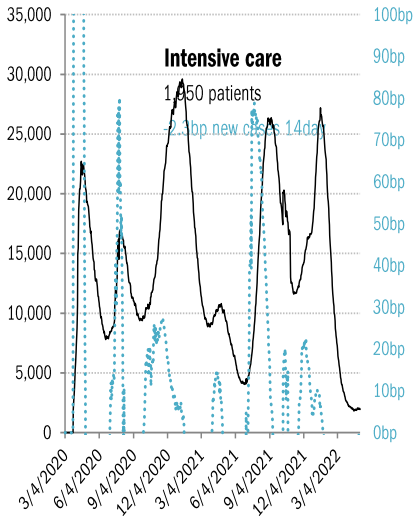


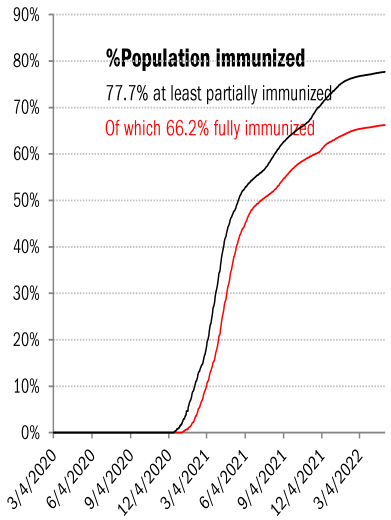










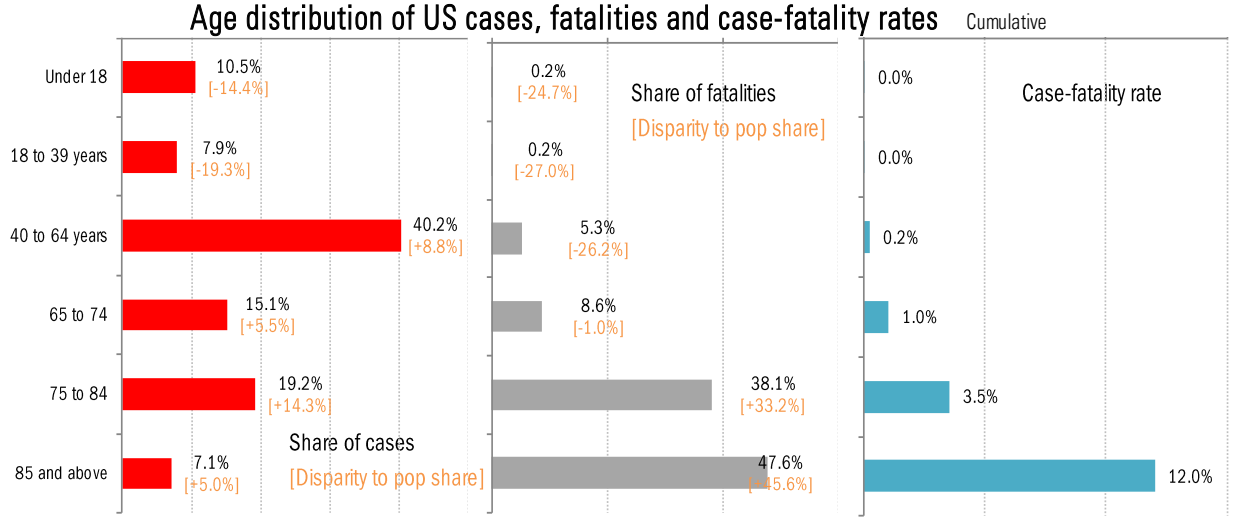


Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

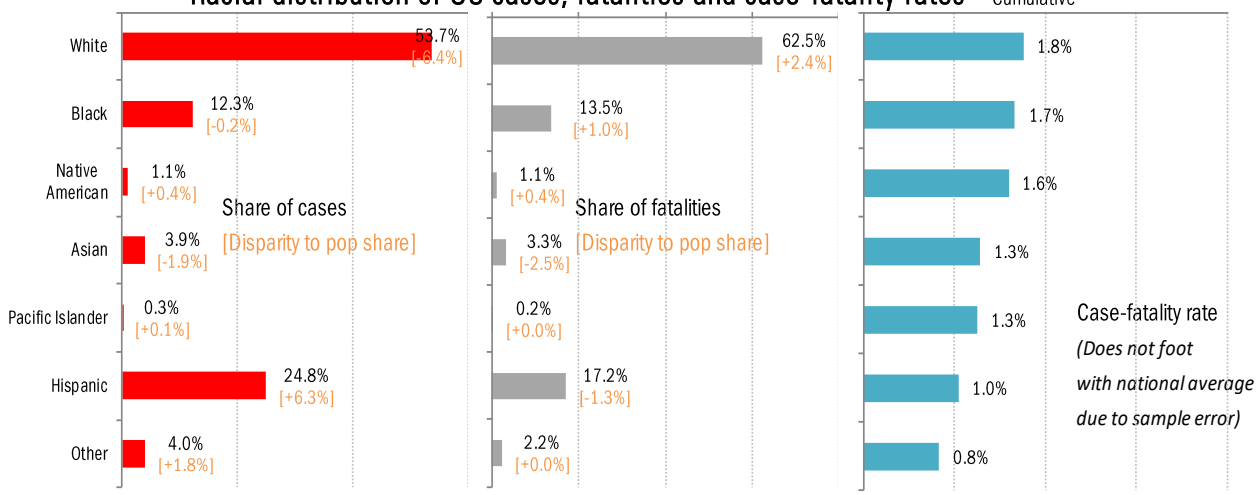
US deep-dive: demographics of age, race and health

Updates weekly on Sunday, 1 week lag

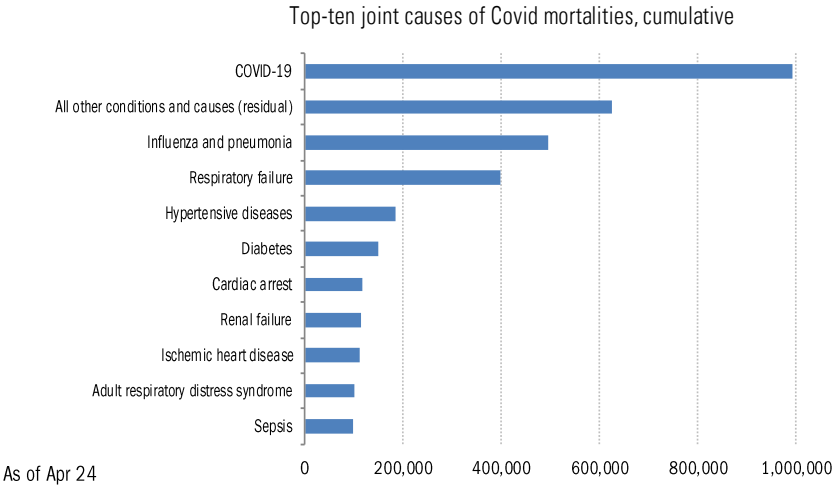
Age distribution of US cases, fatalities and case-fatality rates



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



Comorbidities



As of Apr 24

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

Newer, fitter descendants of Omicron variant begin to drive their own coronavirus waves
Sanjay Gupta
CNN
May 3, 2022

Pfizer Says Patients Who Relapse After Covid Pill Can Repeat Treatment
Riley Griffin, Madison Muller, and Robert Langreth
Bloomberg
May 3, 2022

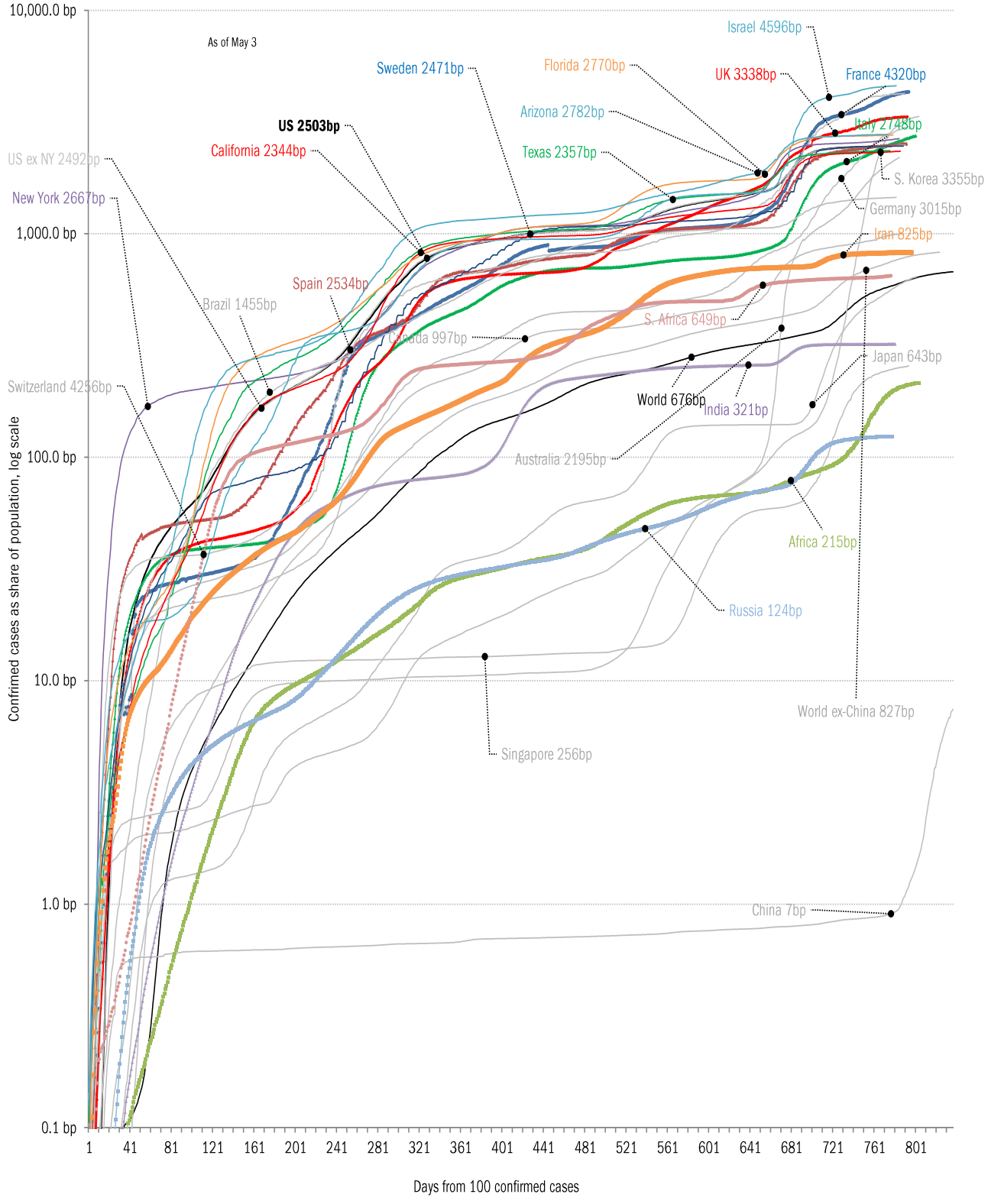
Meme of the day

Government Disinformation Board Determines All Criticism Of Government Disinformation Board To Be Disinformation

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

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

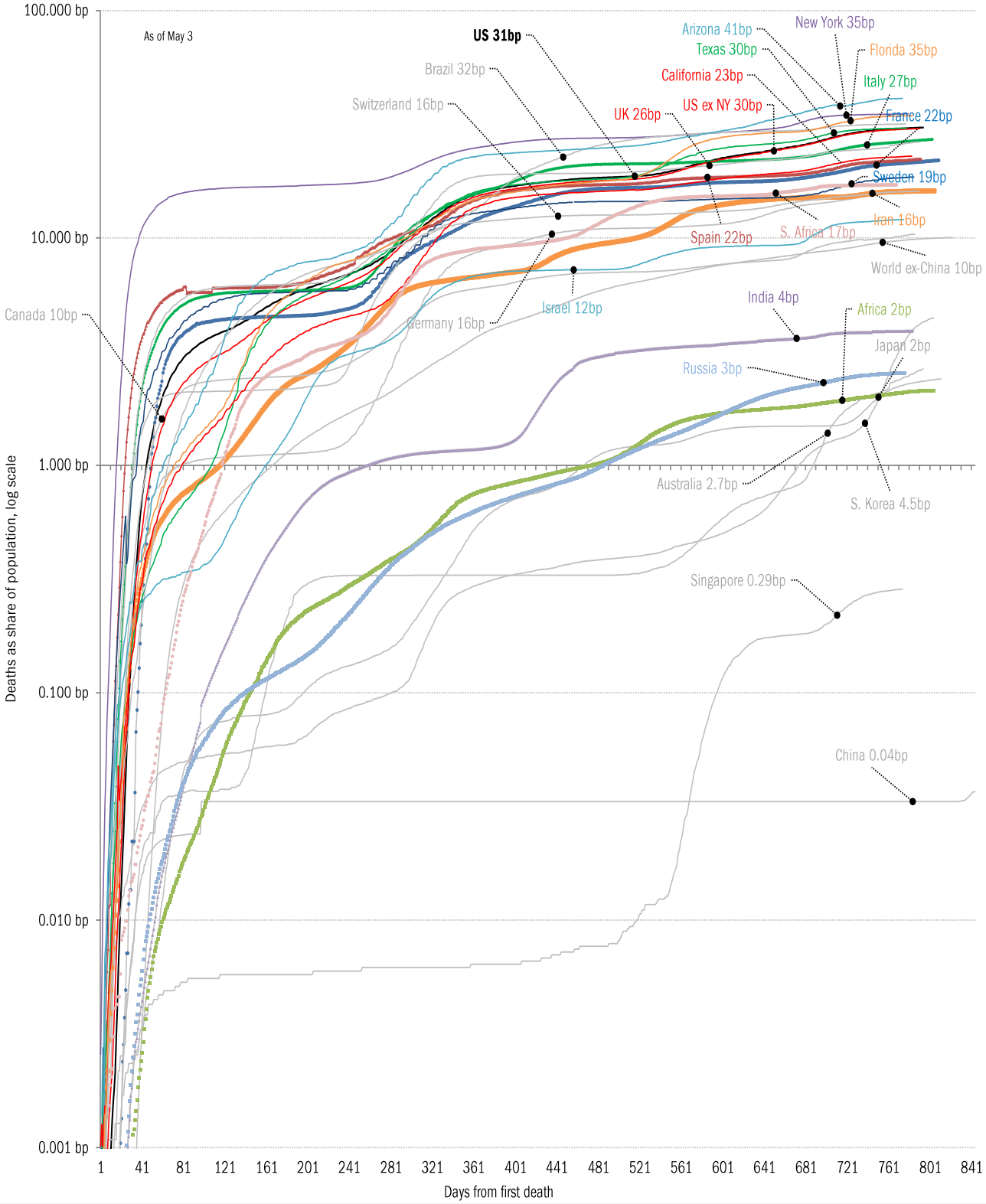
Share of infected population from first day with 100 confirmed cases, log scale



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

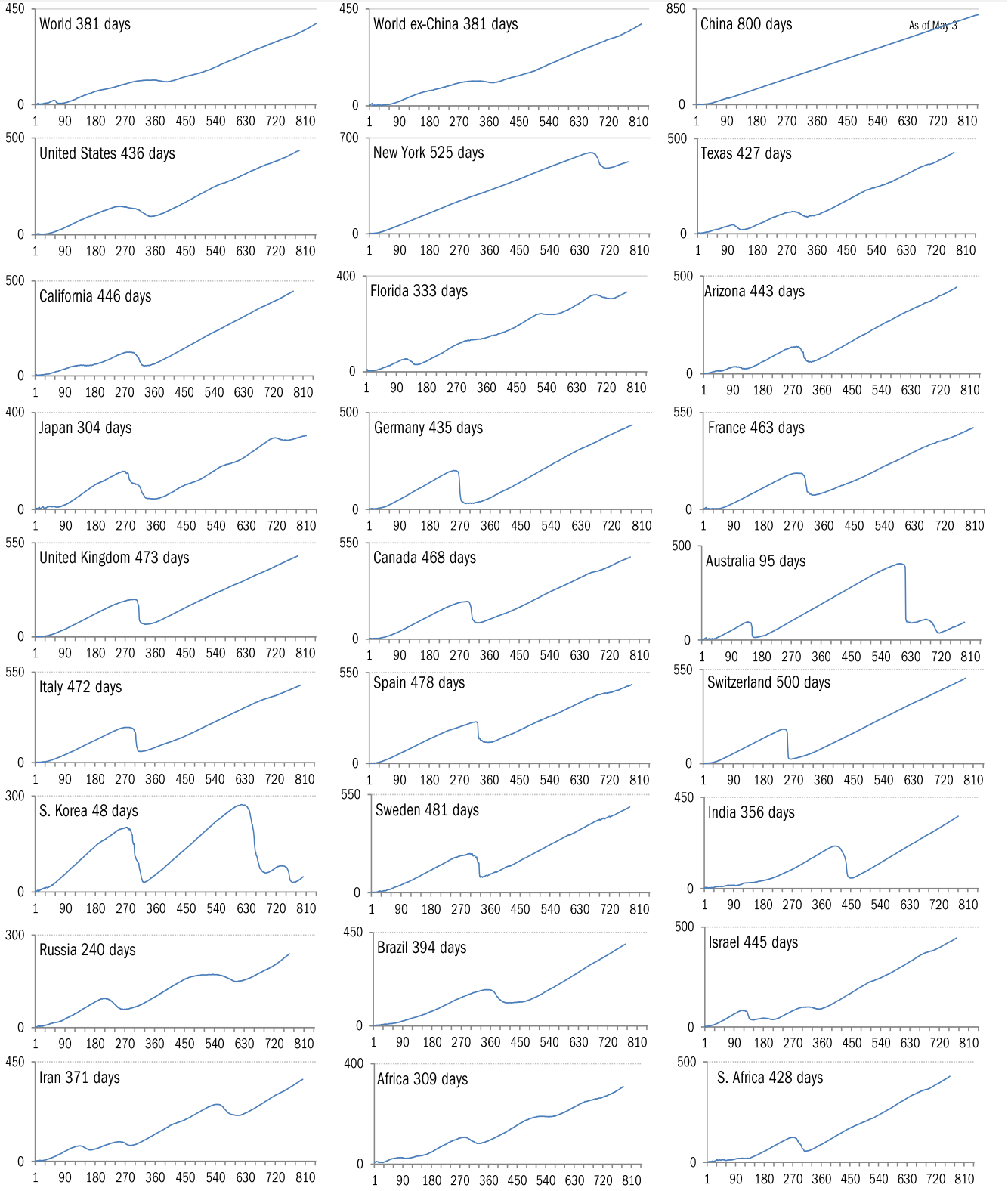


Source: Johns Hopkins, TrendMacro calculations

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

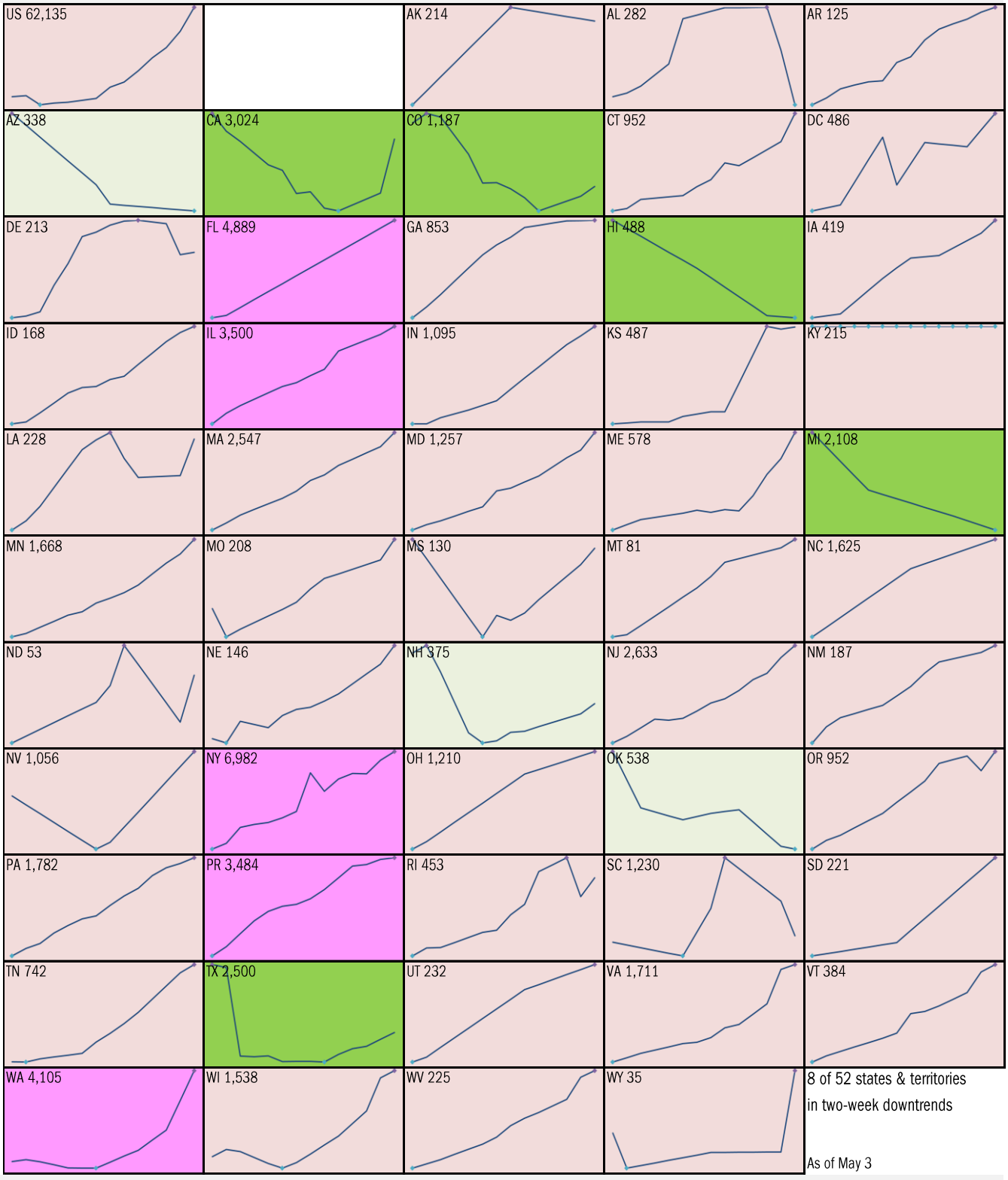


Source: Johns Hopkins, TrendMacro calculations

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

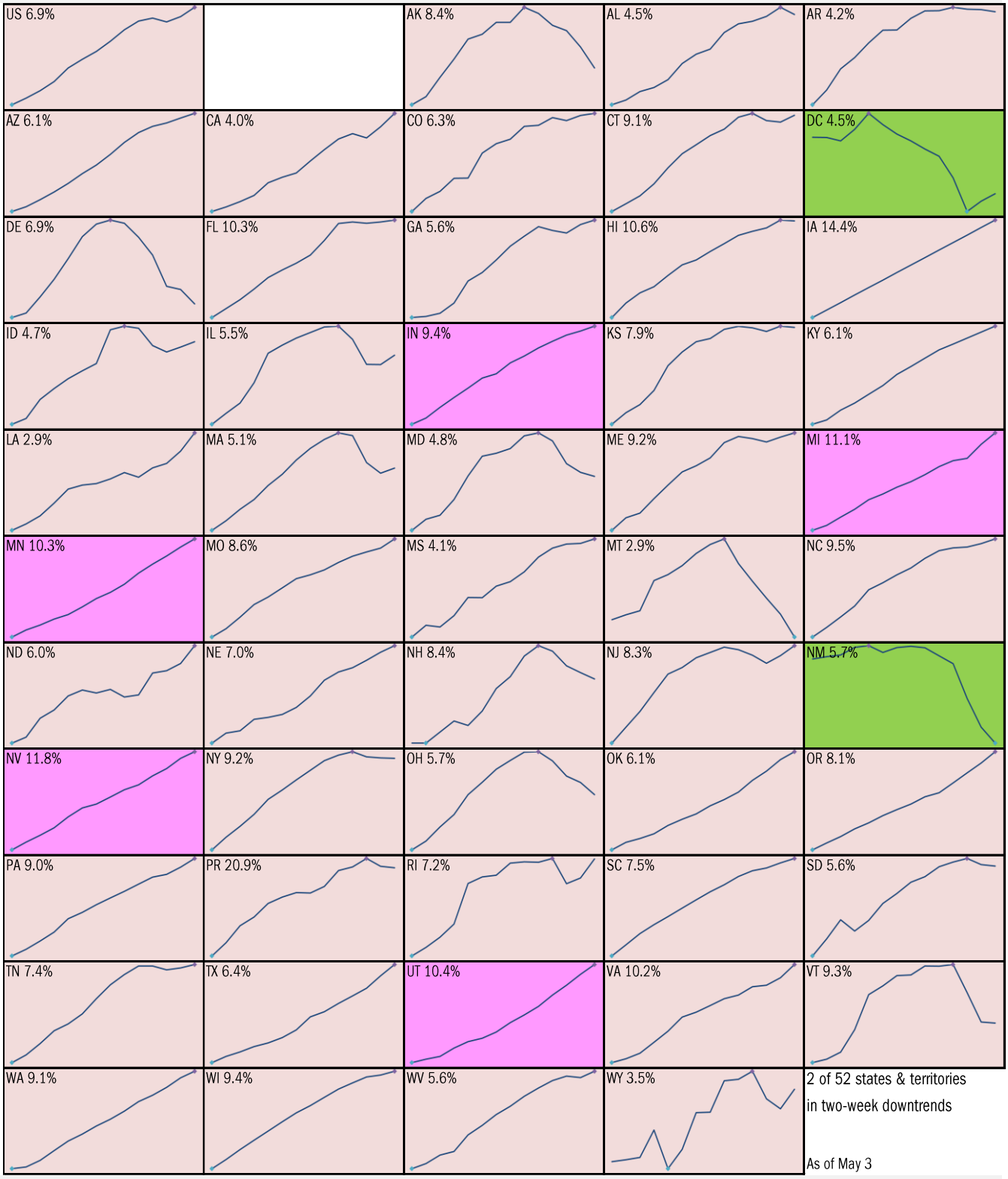


Source: Johns Hopkins, TrendMacro calculations

14-day trajectory in **test-positivity ratio**

14-day moving average, last 14 days *Most recent value displayed* • High • Low

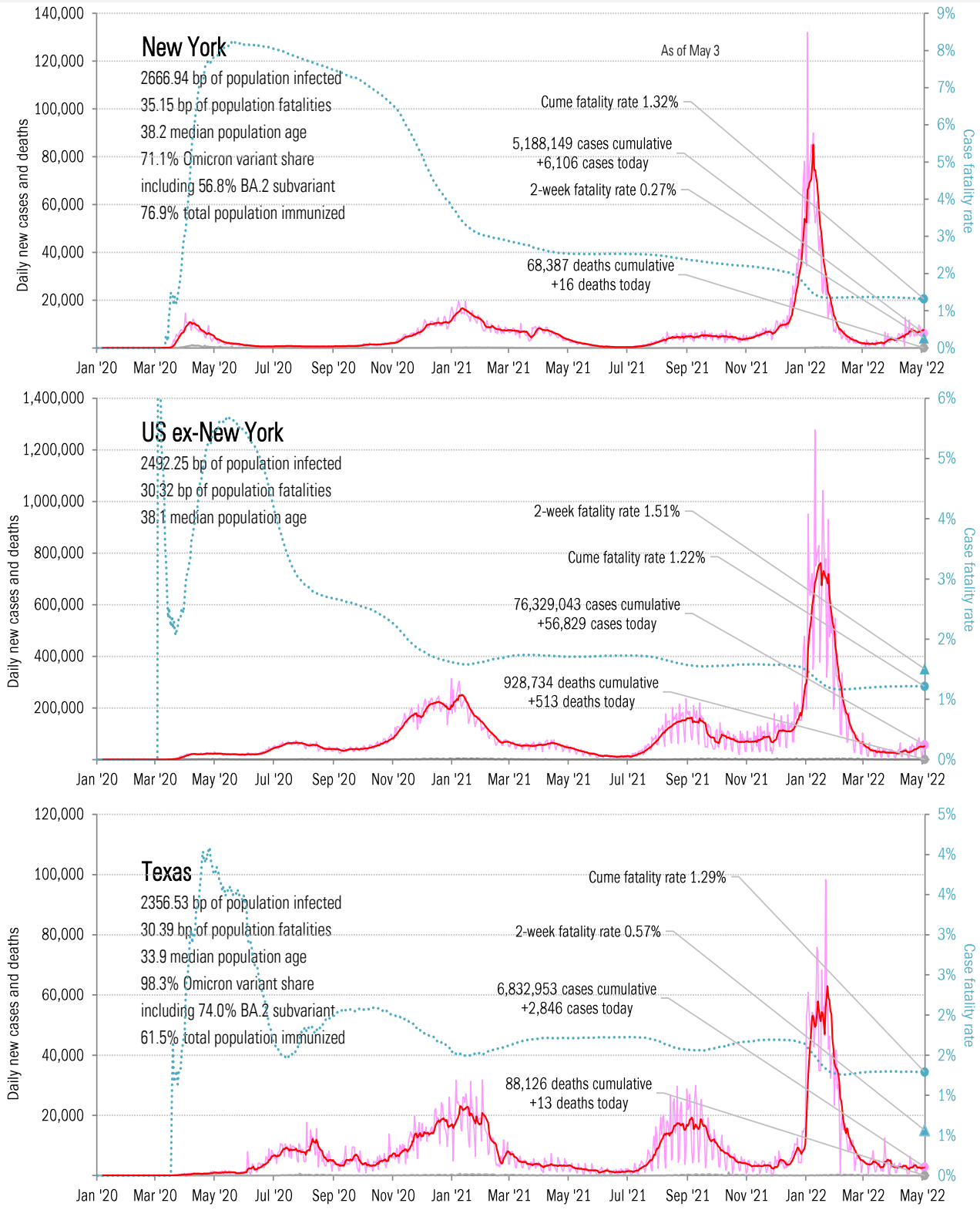
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

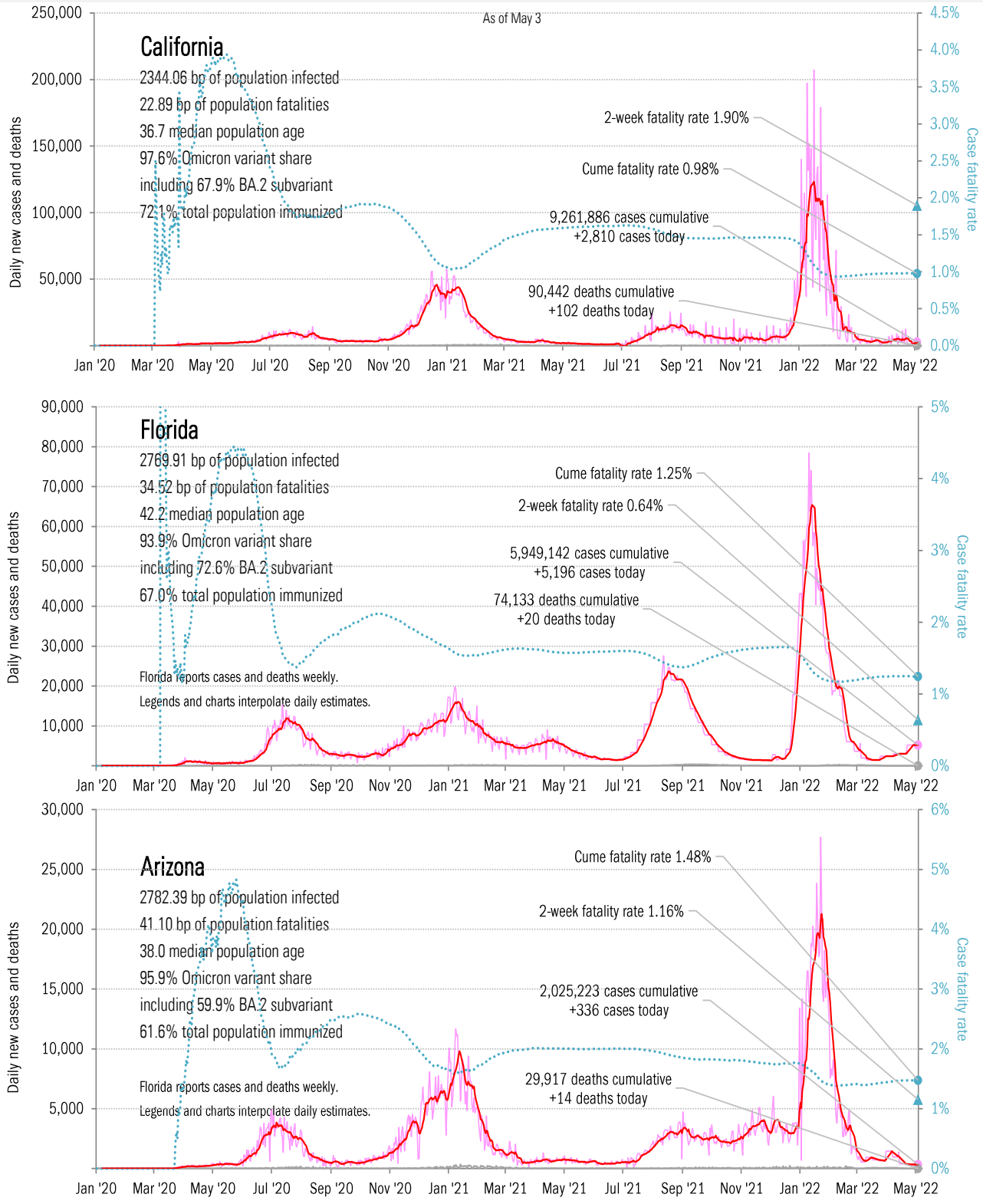
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

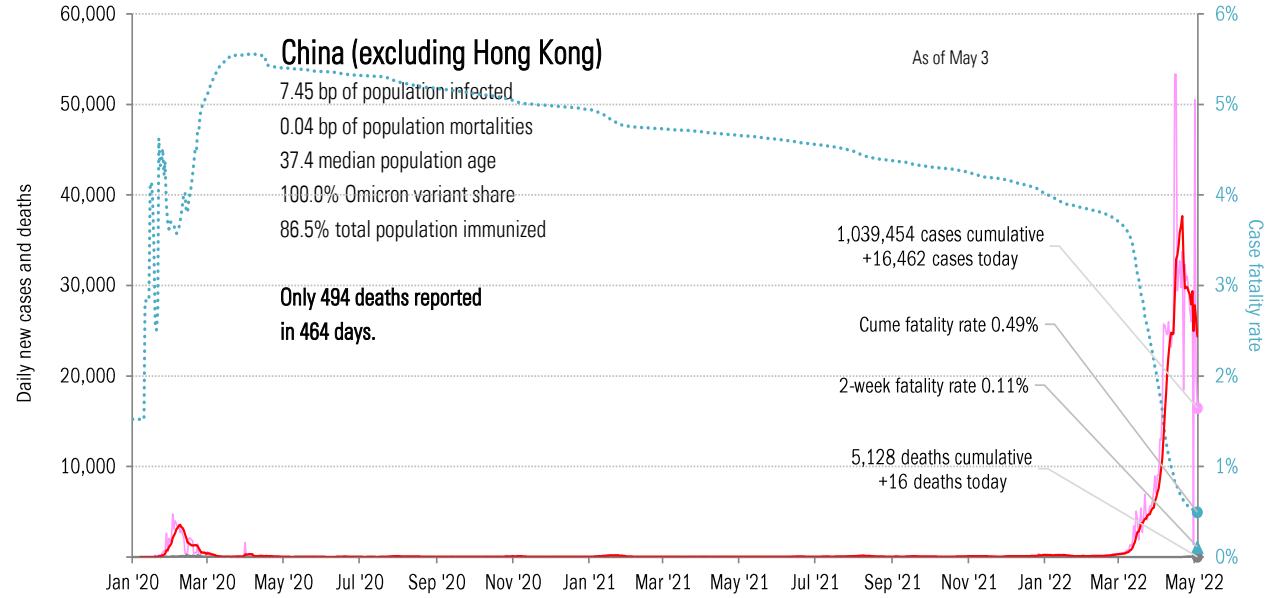
Cases: 7-day average and daily Deaths: Daily

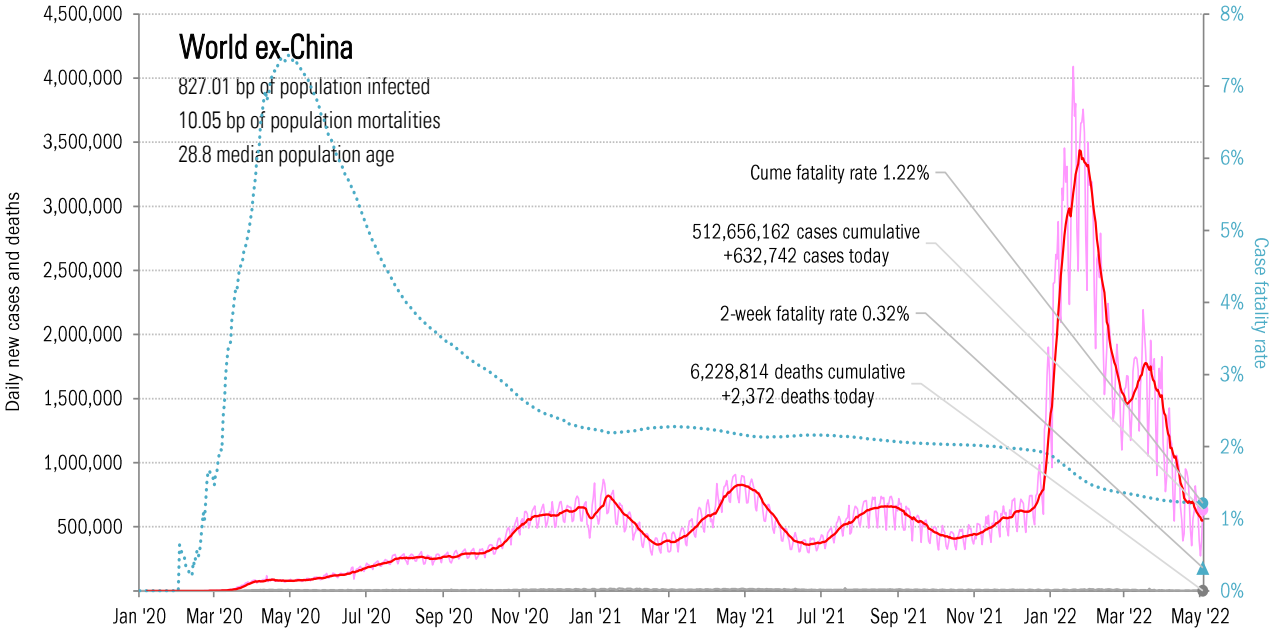


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

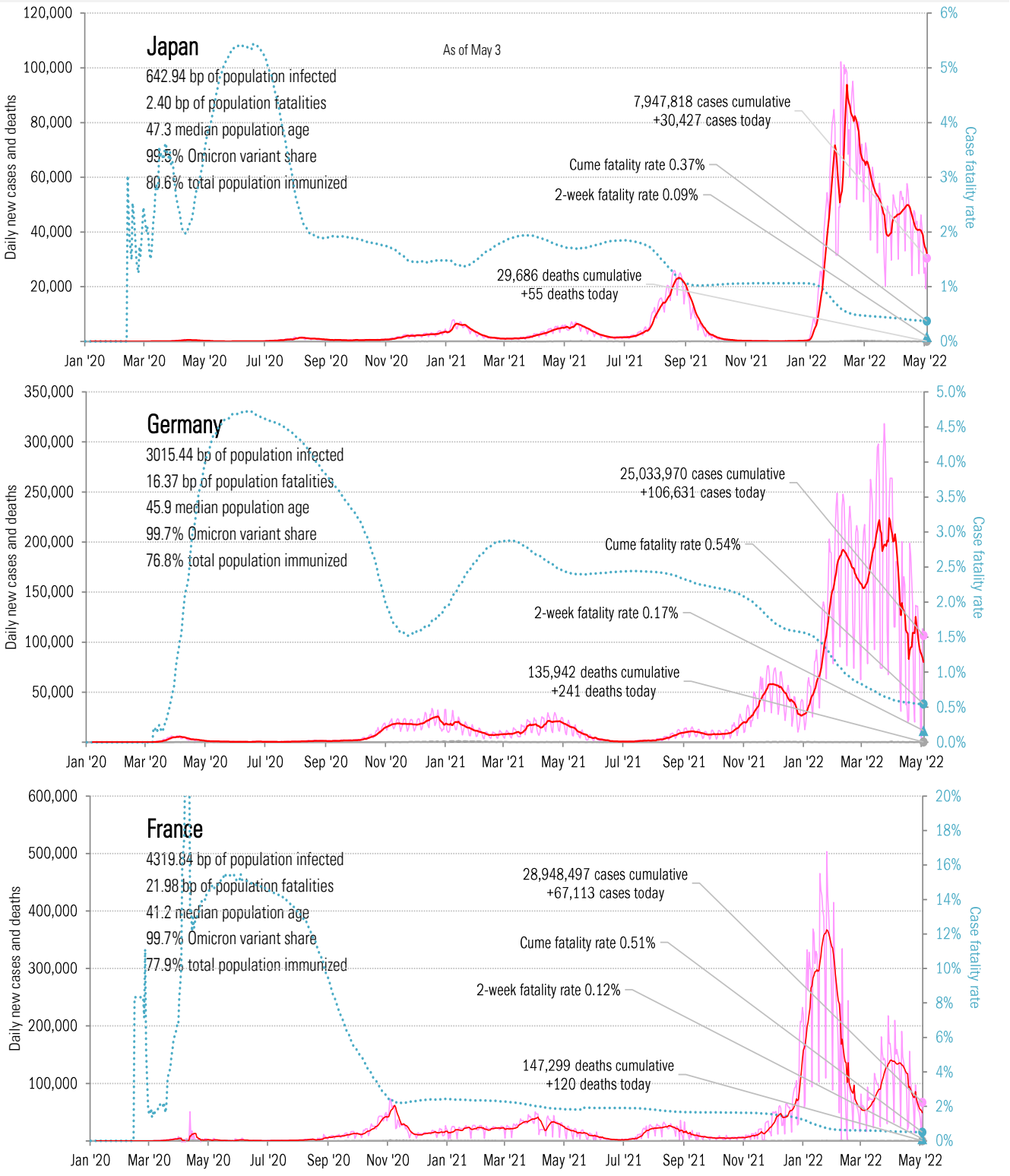




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

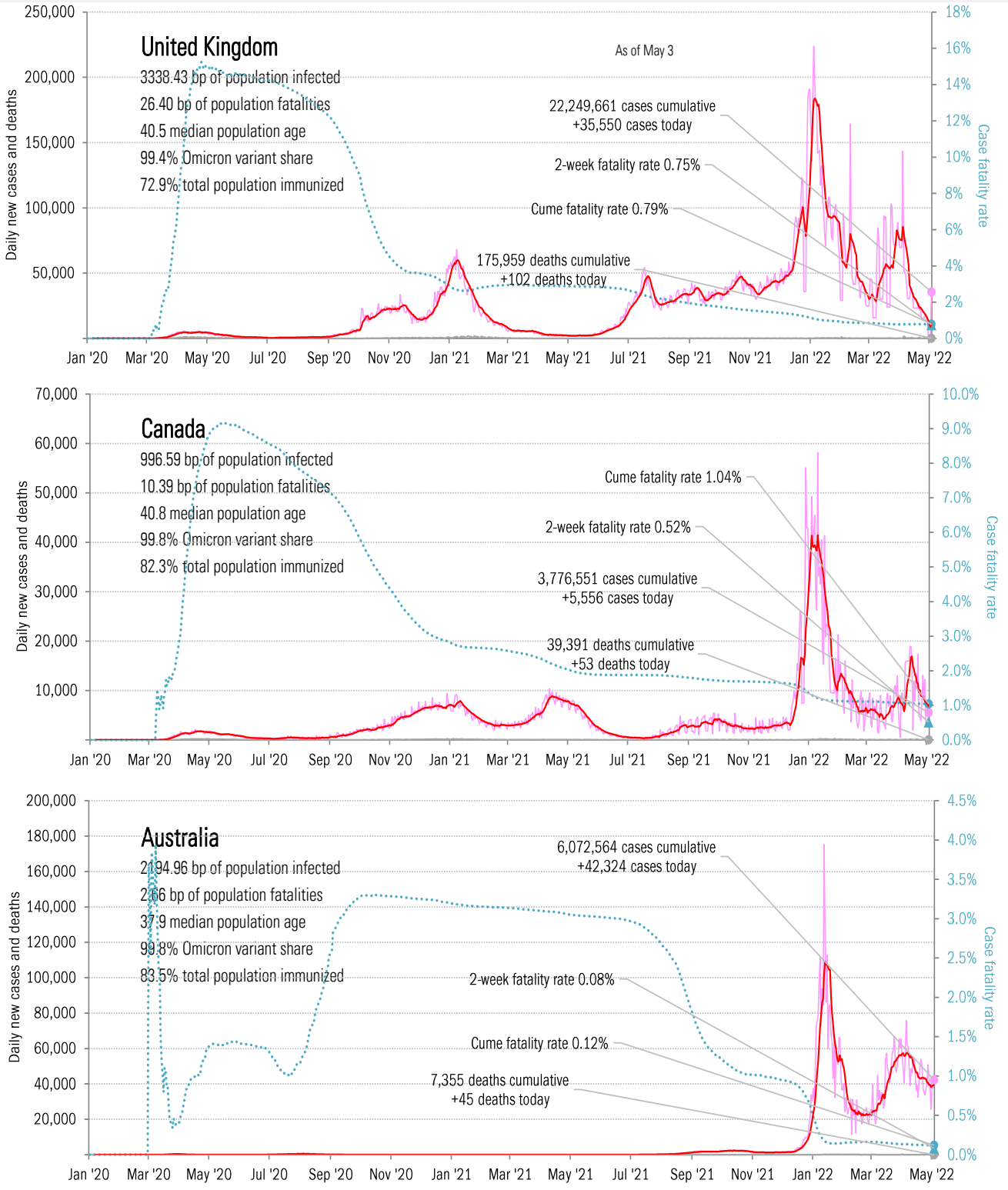
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

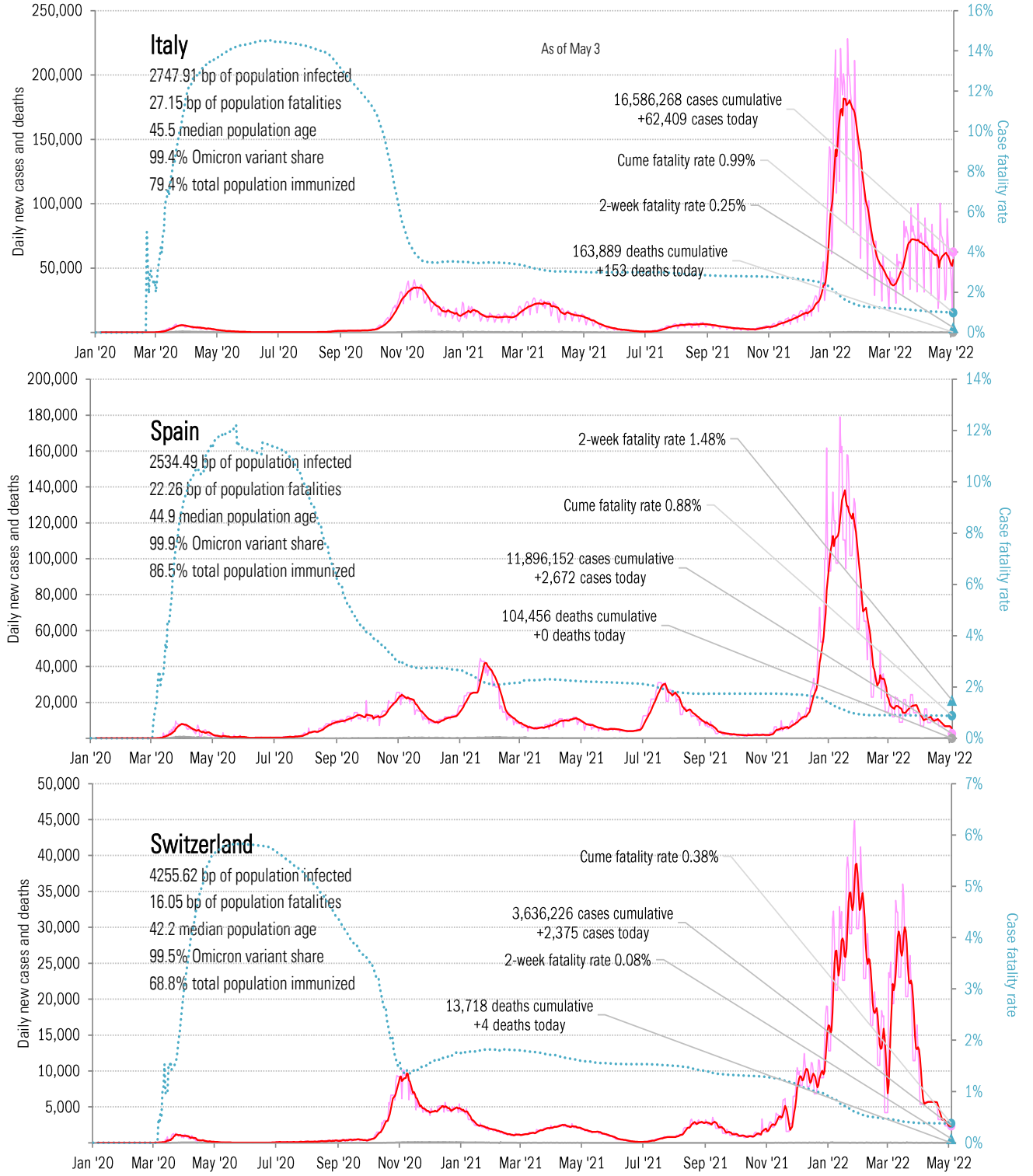
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

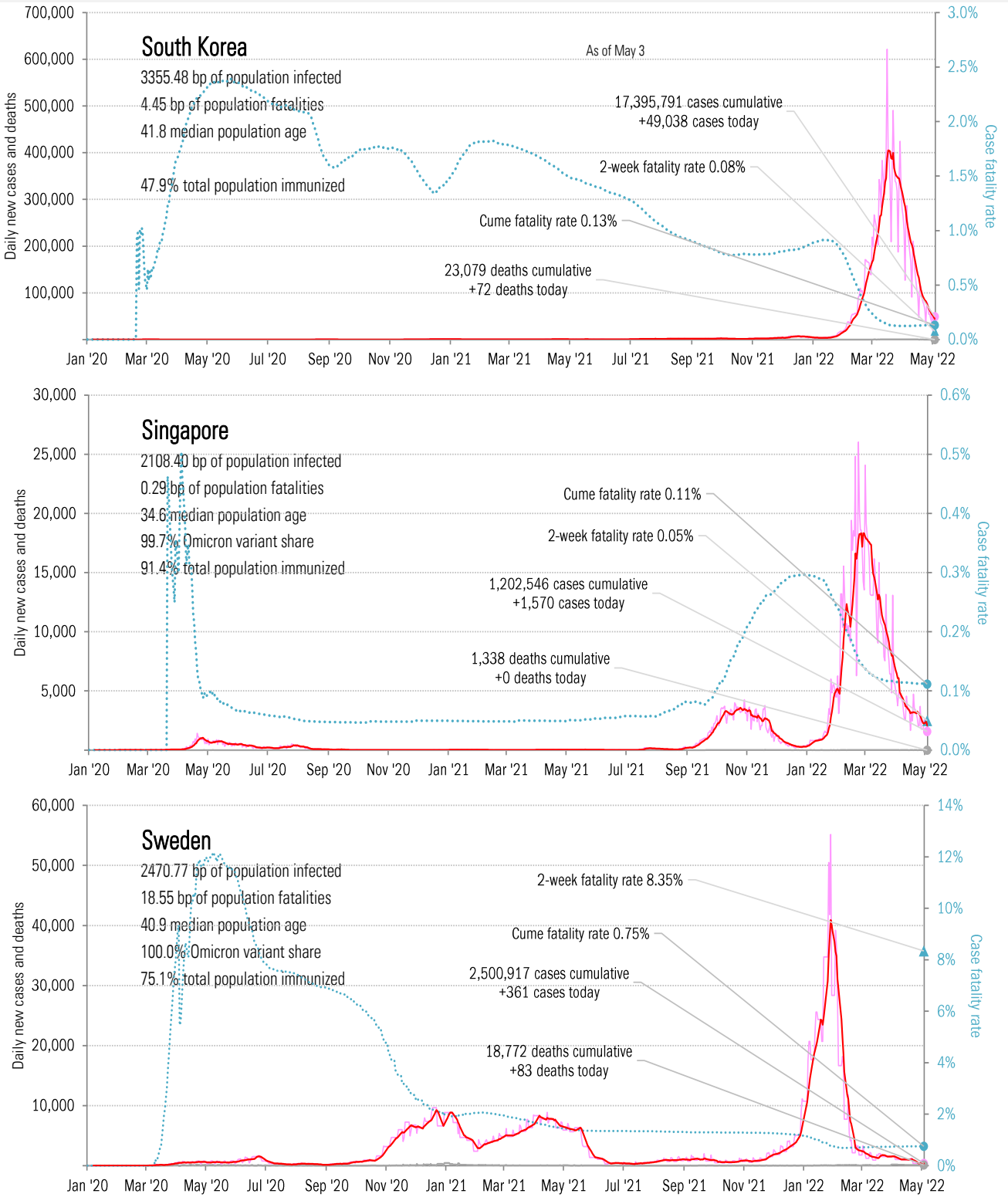
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

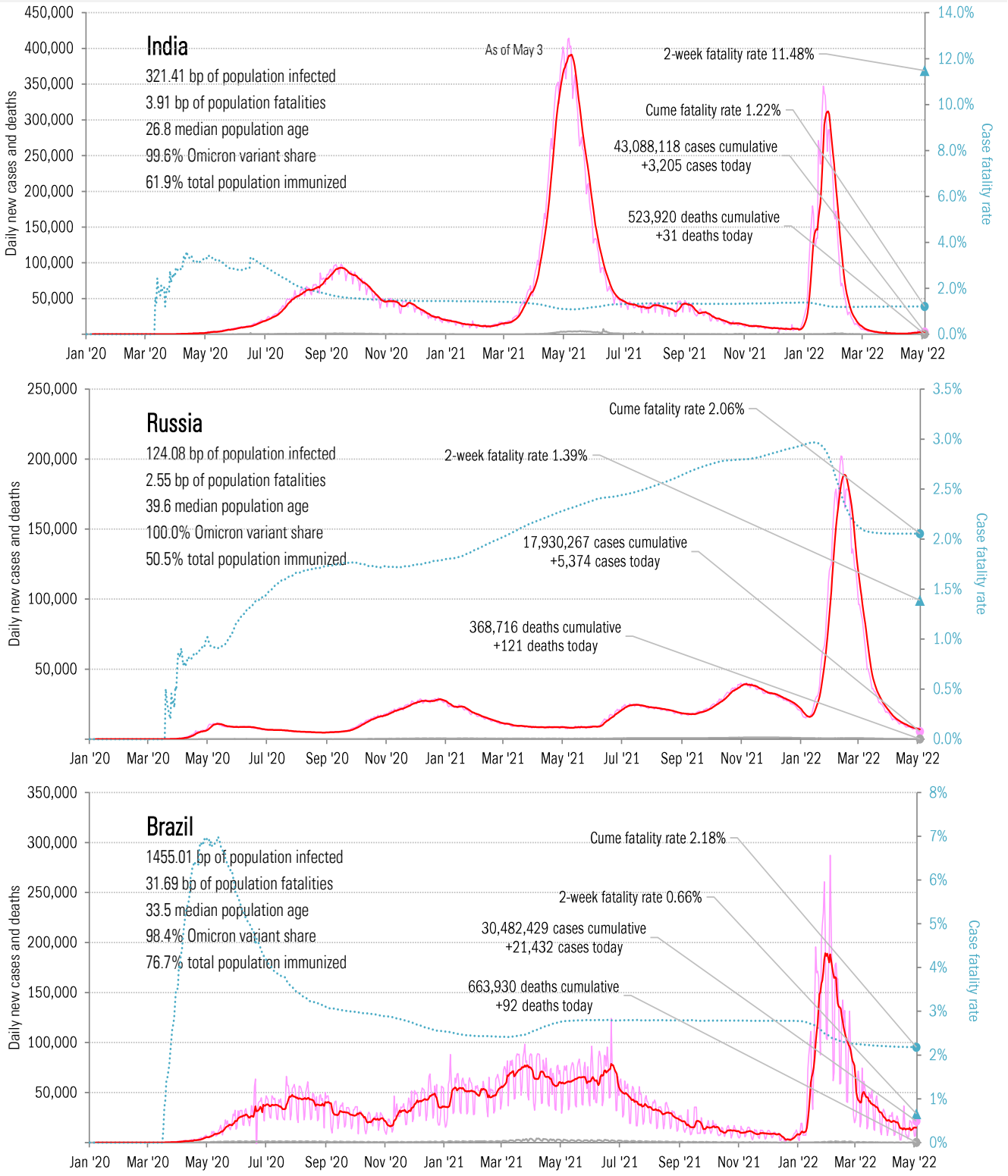
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

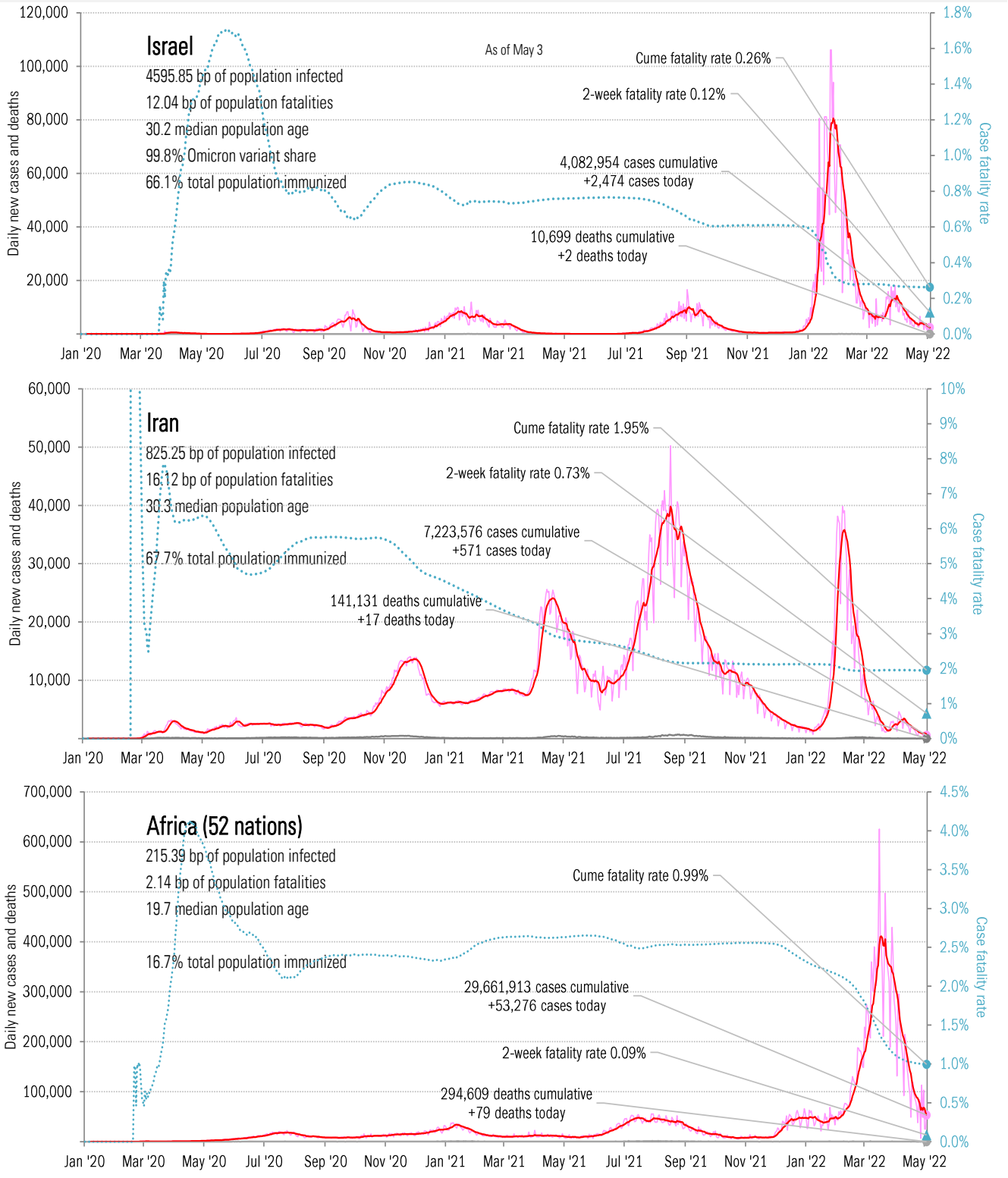
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

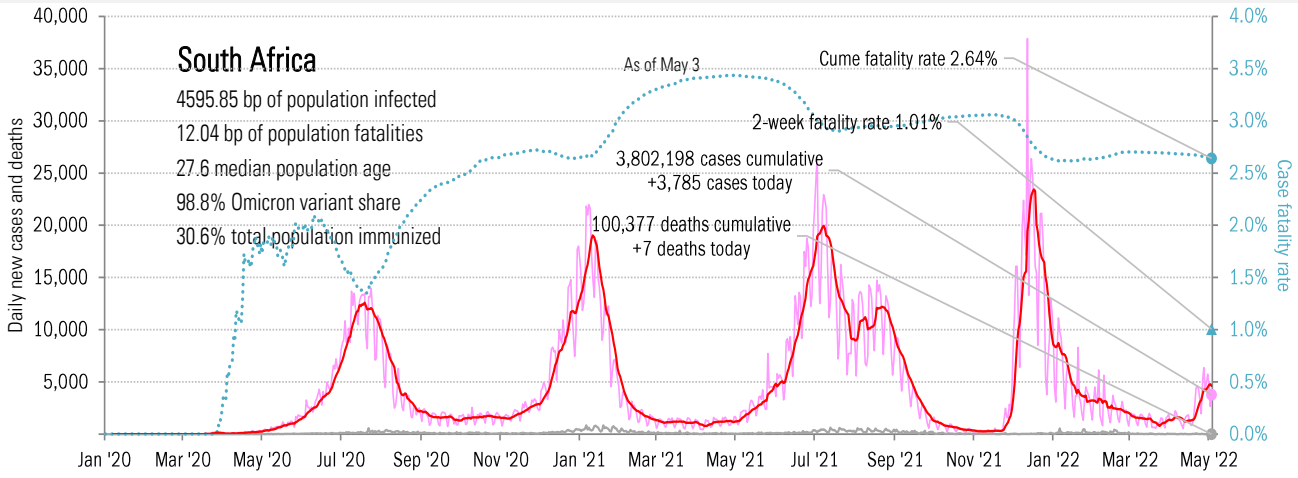
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations