Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

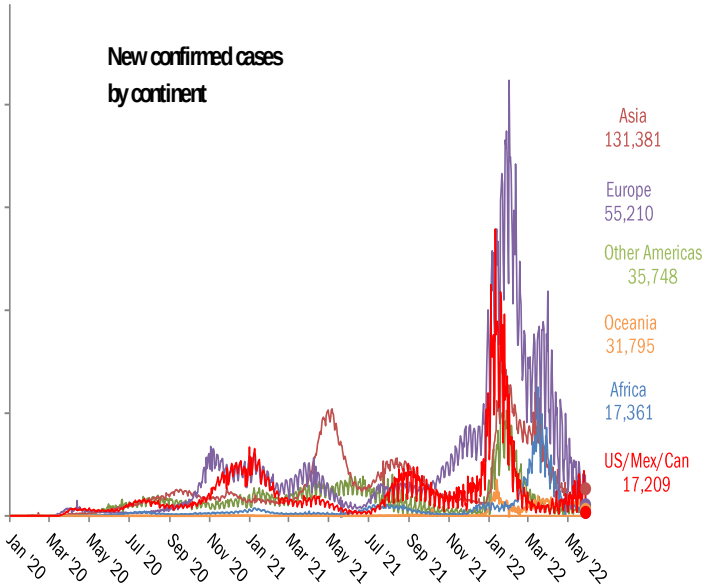
Sunday, May 29, 2022

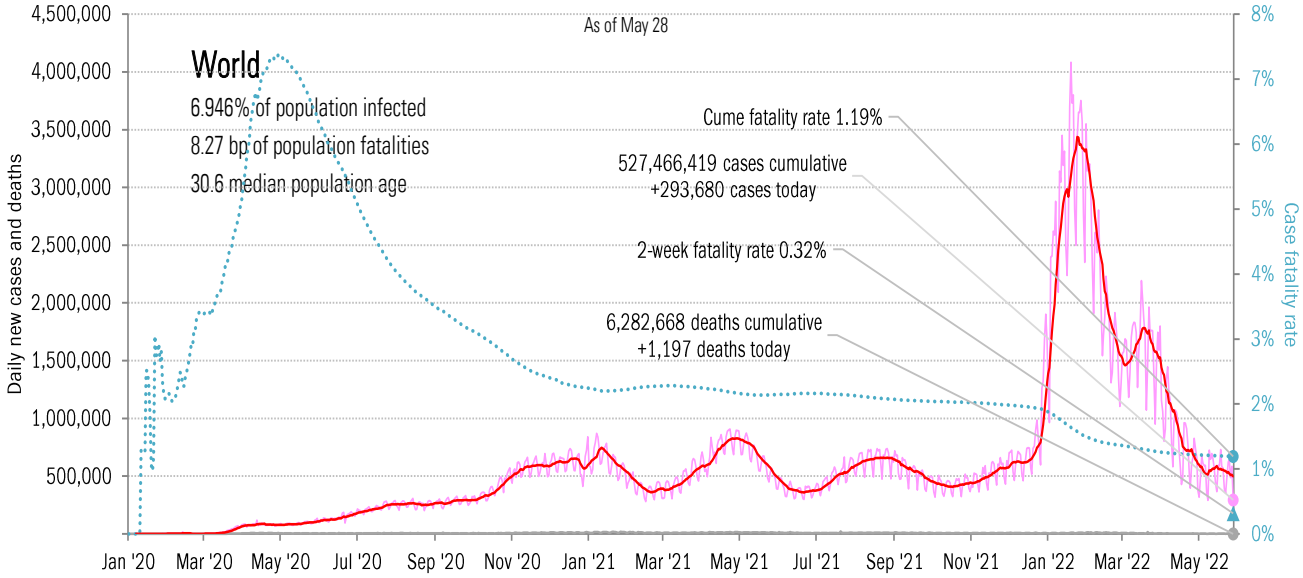
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Taiwan*	80,636	United States	525
Australia	26,877	Taiwan*	163
Japan	25,656	Russia	82
Brazil	24,239	Brazil	72
France	23,582	Italy	66
Italy	18,622	Japan	36
United States	16,019	Australia	28
Korea, South	12,654	Guatemala	24
Chile	9,500	Thailand	24
China	6,392	Canada	23
	244,177		1,043
World	293,680	World	1,197
Top ten	83%	Top ten	87%





Source: Johns Hopkins, TrendMacro calculations

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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

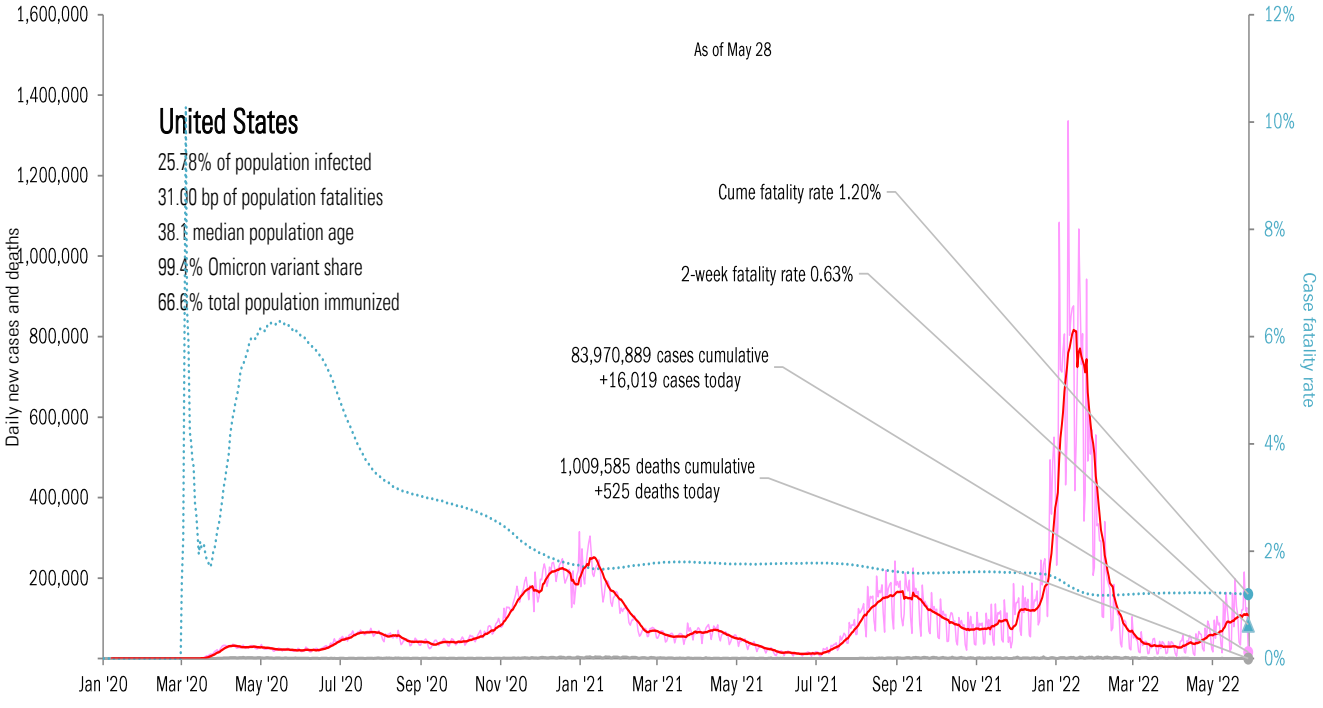
New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
[illegible]	[illegible]	[illegible]	19	FL	400	CA	9,557,802	CA	91,299	TX	493,802	RI	91%	WA	84%
			15	CO	129	TX	6,927,334	TX	88,348	CA	434,092	MA	86%	TX	82%
			12	WA	158	FL	6,116,877	FL	74,585	FL	424,891	MN	85%	NM	81%
			7	CA	384	NY	5,414,434	NY	68,955	NY	261,928	WA	85%	UT	81%
[illegible]	475	AZ	6	NY	410	IL	3,286,377	PA	45,147	GA	209,211	MD	83%	RI	80%
AR	376	AK	0	IL	217	PA	2,907,324	OH	38,628	OH	195,163	PA	83%	DC	80%
KY	215	AL	0	NC	100	OH	2,763,123	GA	38,198	PA	181,642	NH	82%	AK	80%
VI	90	AS	0	TX	167	NC	2,744,935	MI	36,357	IL	162,693	MO	82%	NH	79%
AK	0	CA	0	KY	47	GA	2,556,044	IL	36,239	MI	146,276	MI	81%	NC	79%
AL	0	CO	0	NJ	146	MI	2,527,831	NJ	33,693	KY	134,095	DE	81%	AL	78%
	16,234		59		2,158		44,802,081		551,449		2,643,793				
All states	16,019		525		4,079	All states	83,970,889		1,009,585		4,801,164	All states	70%		67%
Top ten	101%		11%		53%	Top ten	53%		55%		55%	Median	75%		72%

US state case and fatality data distorted today due to holidays.

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-40,776	MO	-131	VA	-62	AL	+10 bp
NY	-9,448	FL	-111	MD	-51	AZ	+10 bp
WA	-7,955	CA	-100	PA	-46	CA	+10 bp
MO	-6,756	NY	-37	CA	-32	DE	+10 bp
TX	-5,876	CO	-34	MI	-25	GA	+10 bp



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

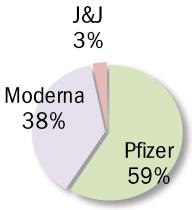
Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	601,965,569				+0.255 million
Boosters	44,931,495				+0.016 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	266,300,316	80%	227,520,145	68%	+0.032 million
Age 12 to 17	17,790,118	70%	15		on
Age 18 to 64	178,919,616	88%	152		on
Age 65 and over	59,125,504	100%	51		on

Immunity	Full	Partial
US	66.6%	77.9%
UK	73.2%	78.3%
France	78.3%	80.7%
Spain	86.6%	88.2%
Germany	76.9%	76.9%
Italy	79.4%	84.1%
Australia	83.8%	86.5%
Israel	66.1%	72.2%
Canada	82.4%	86.6%
Japan	80.9%	82.1%
Africa	17.3%	22.6%
India	63.6%	72.5%
Brazil	77.6%	85.9%
China	87.0%	89.3%

Global data differs due to sources, timing

The CDC did not update vaccination data today.



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

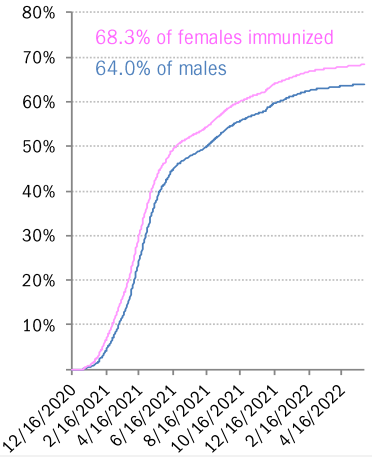
"Immunity" = two doses

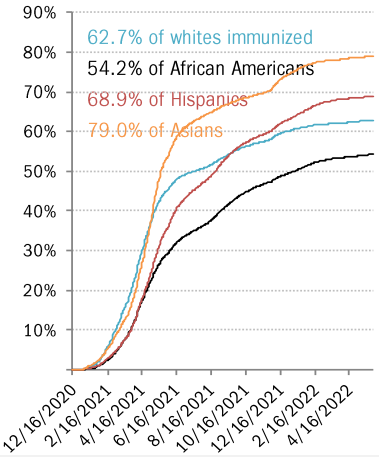
Best
Middle
Worst

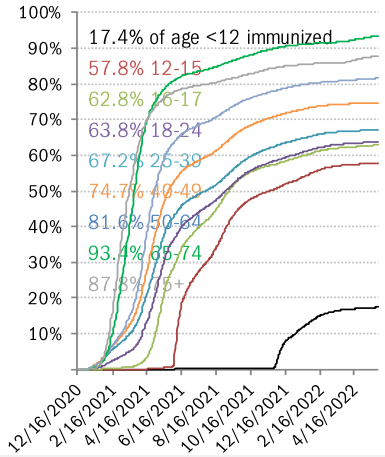
As of May 27

					WI					ME
					72.1%					91.1%
					65.8%					80.1%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
81.1%	61.9%	65.5%	65.8%	75.4%	76.5%	67.2%		90.6%	94.0%	88.9%
72.9%	55.6%	57.0%	55.8%	69.5%	69.1%	60.4%		77.4%	81.6%	71.1%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
78.2%	75.6%	58.3%	77.1%	68.2%	61.7%	63.8%	85.5%	90.9%	95.0%	
69.9%	61.1%	51.1%	62.0%	62.2%	55.2%	59.0%	69.0%	76.1%	79.5%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
82.5%	72.3%	79.7%	70.5%	66.5%	66.4%	65.3%	86.1%	86.9%	95.0%	95.0%
72.6%	64.5%	70.5%	63.8%	56.4%	57.6%	57.8%	73.6%	76.1%	79.7%	83.2%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	73.6%	88.3%	74.8%	67.0%	62.4%	85.0%	68.0%	95.0%	83.7%	
	62.0%	71.6%	61.8%	54.7%	54.8%	61.9%	57.4%	78.4%	69.7%	
			OK	LA	MS	AL	GA			
			71.4%	61.2%	59.8%	63.0%	65.7%			
			57.6%	53.7%	52.0%	51.4%	55.1%			
HI			TX					FL		PR
87.8%			73.7%					79.7%		95.0%
78.6%			61.9%					67.3%		83.4%

The demographics of US vaccination



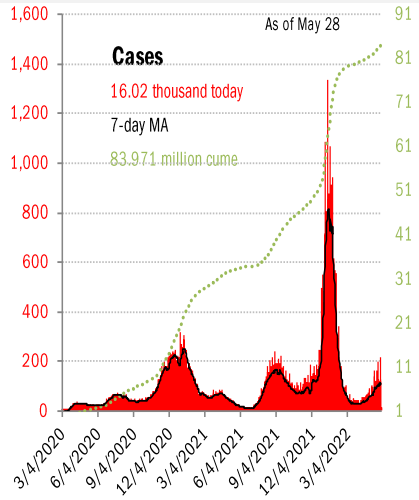


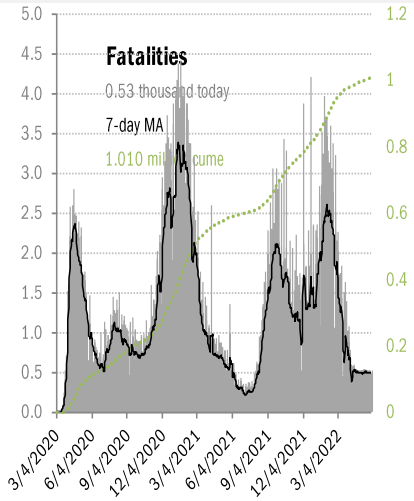


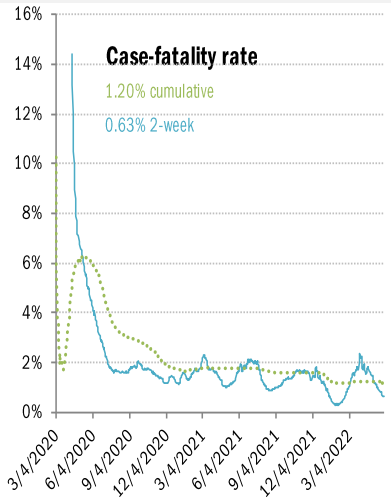
Source: CDC, CDC, Our World in Data, TrendMacro calculations

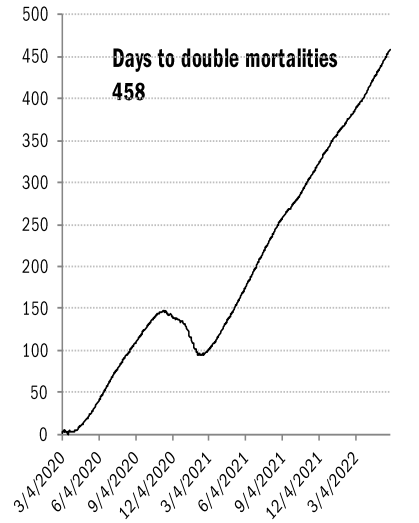
US deep-dive

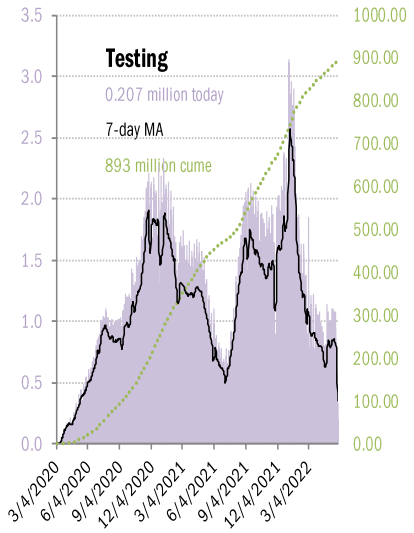
National and state-by-state data do not line up because of different sources

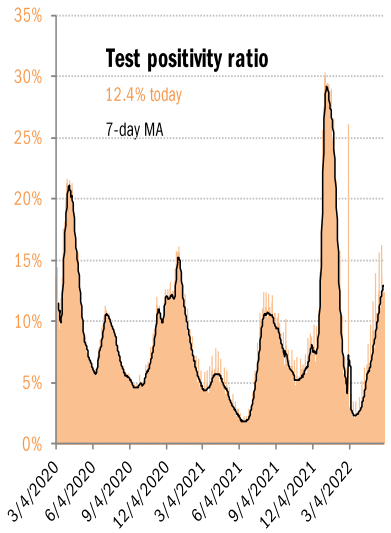


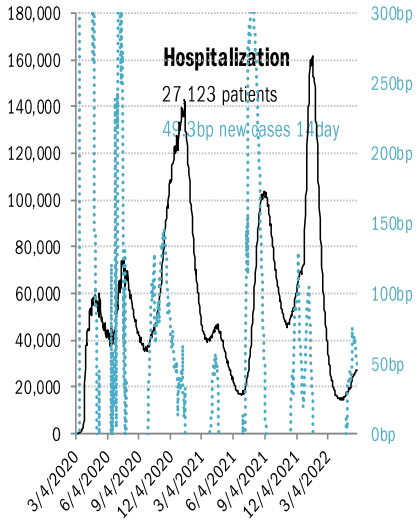


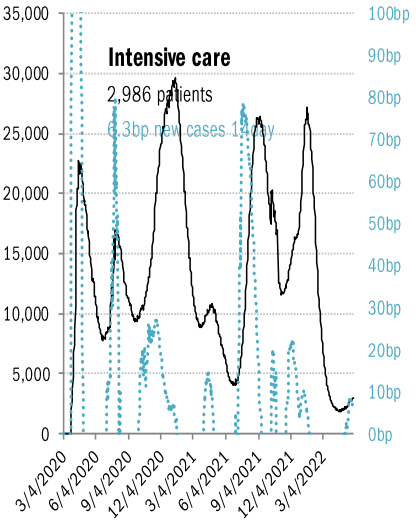


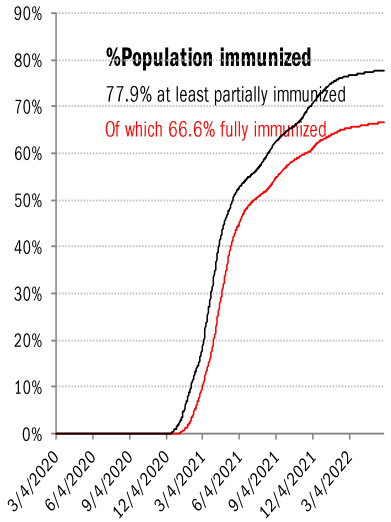












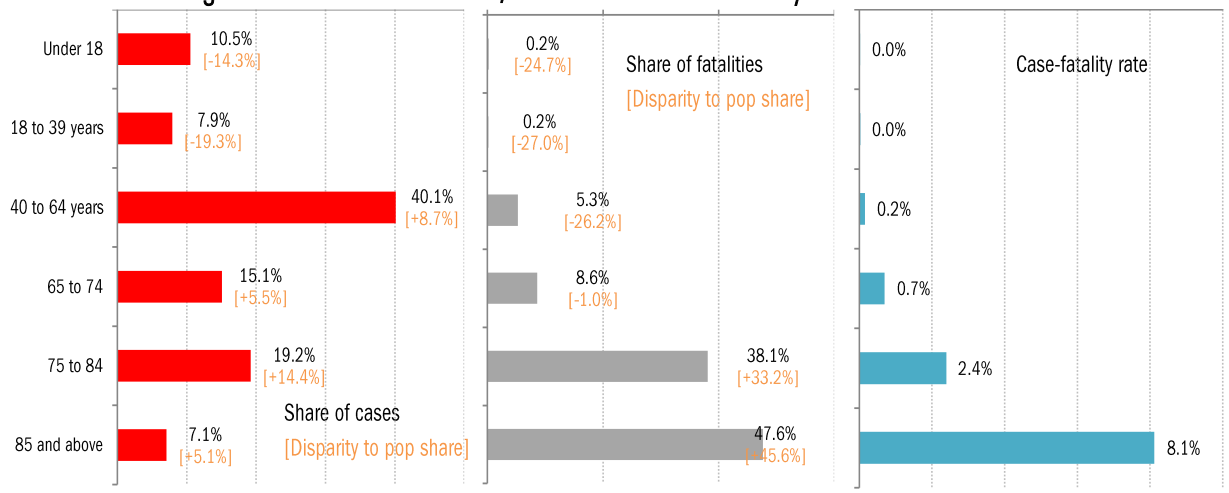
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

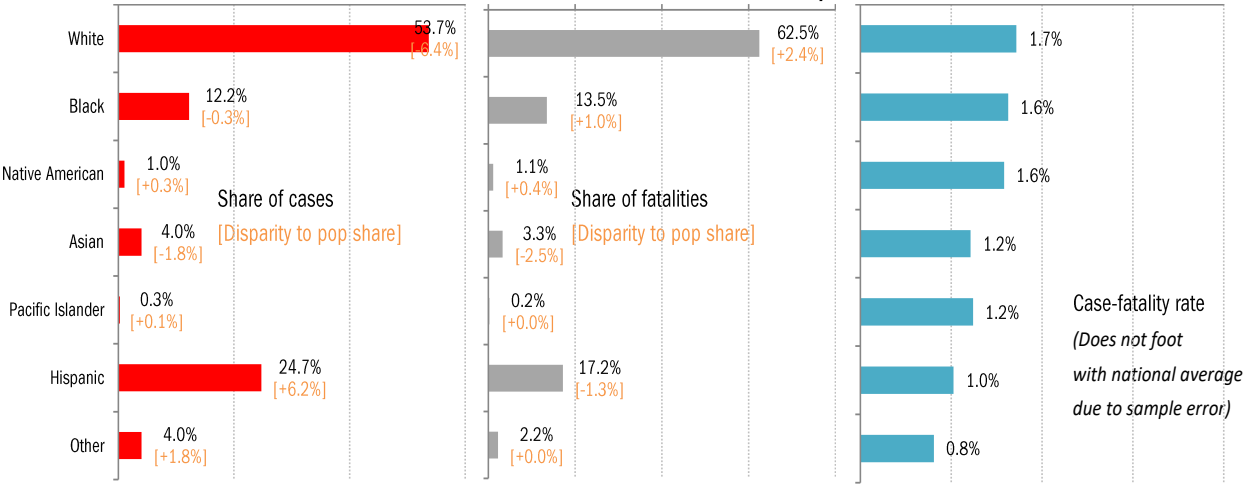
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



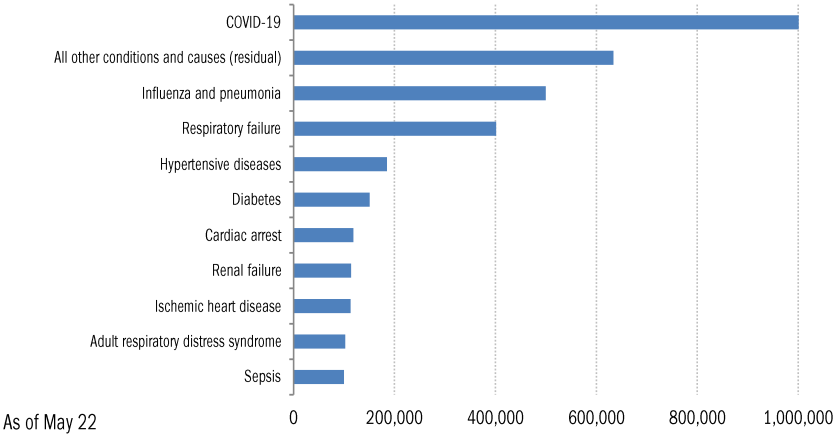
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of May 22

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

Revisiting Pediatric COVID-19 Cases in Counties With and Without School Mask Requirements—United States, July 1—October 20 2021

Ambarish Chandra et al.

The Lancet

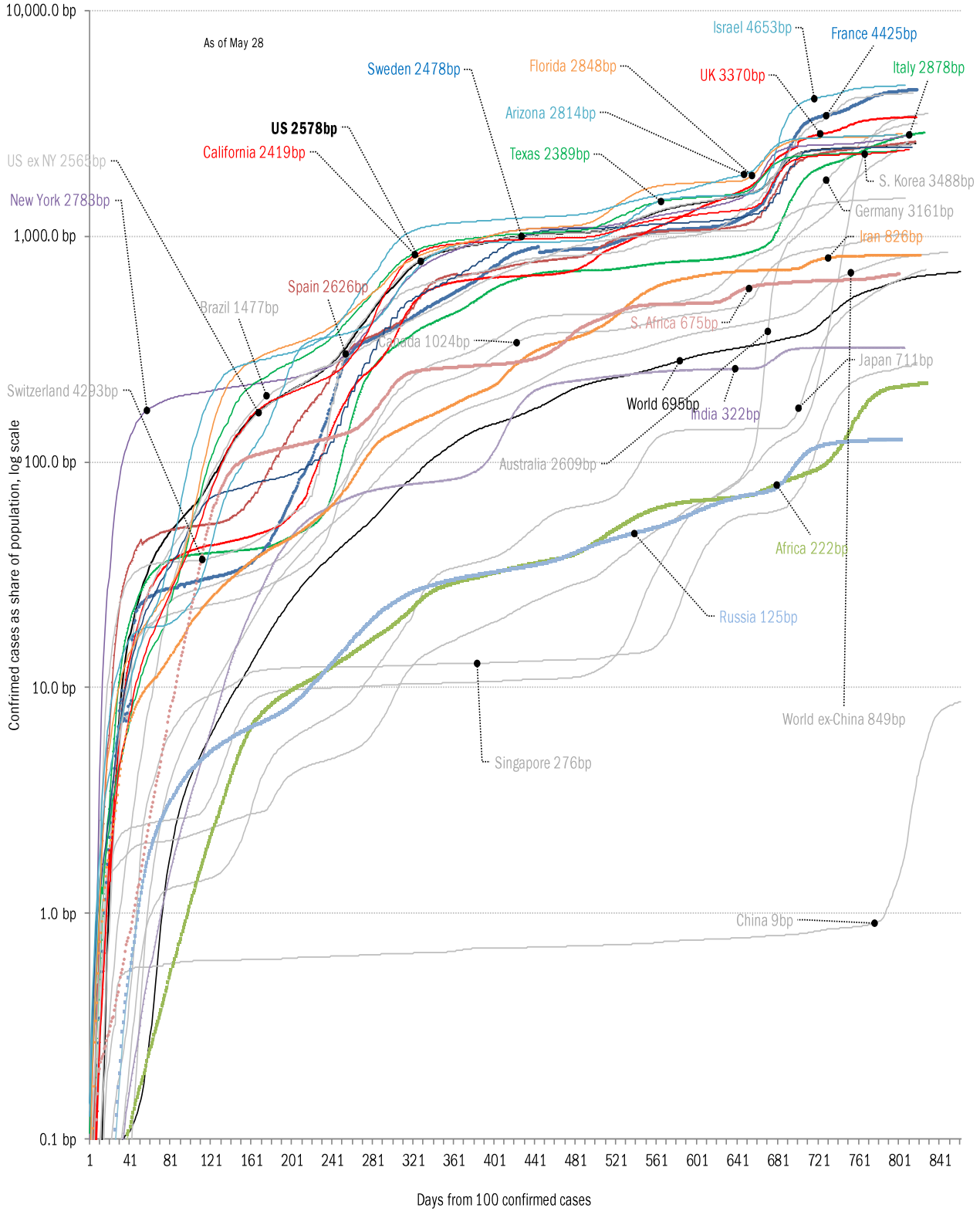
May 25, 2022

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

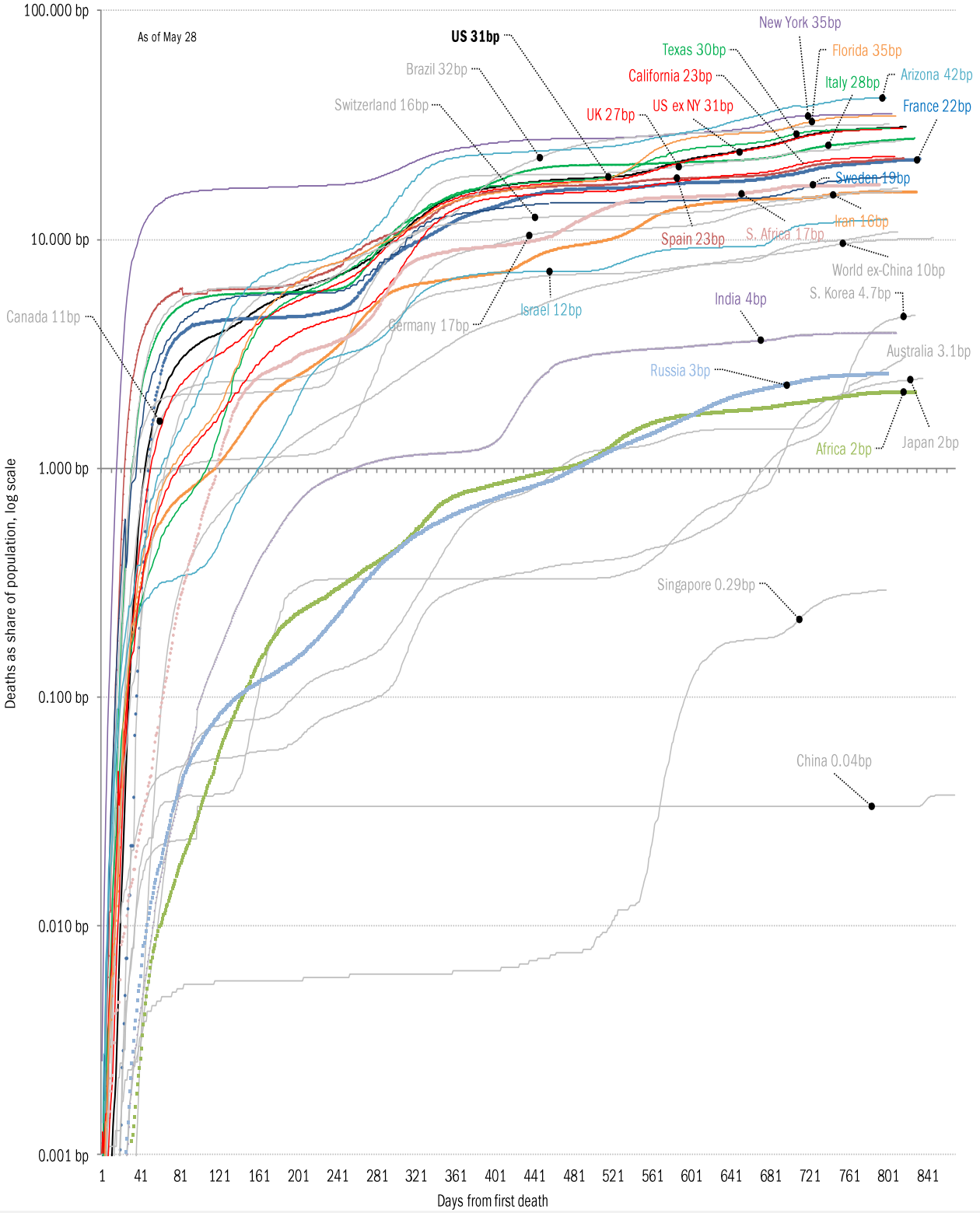
Share of infected population from first day with 100 confirmed cases, log scale



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

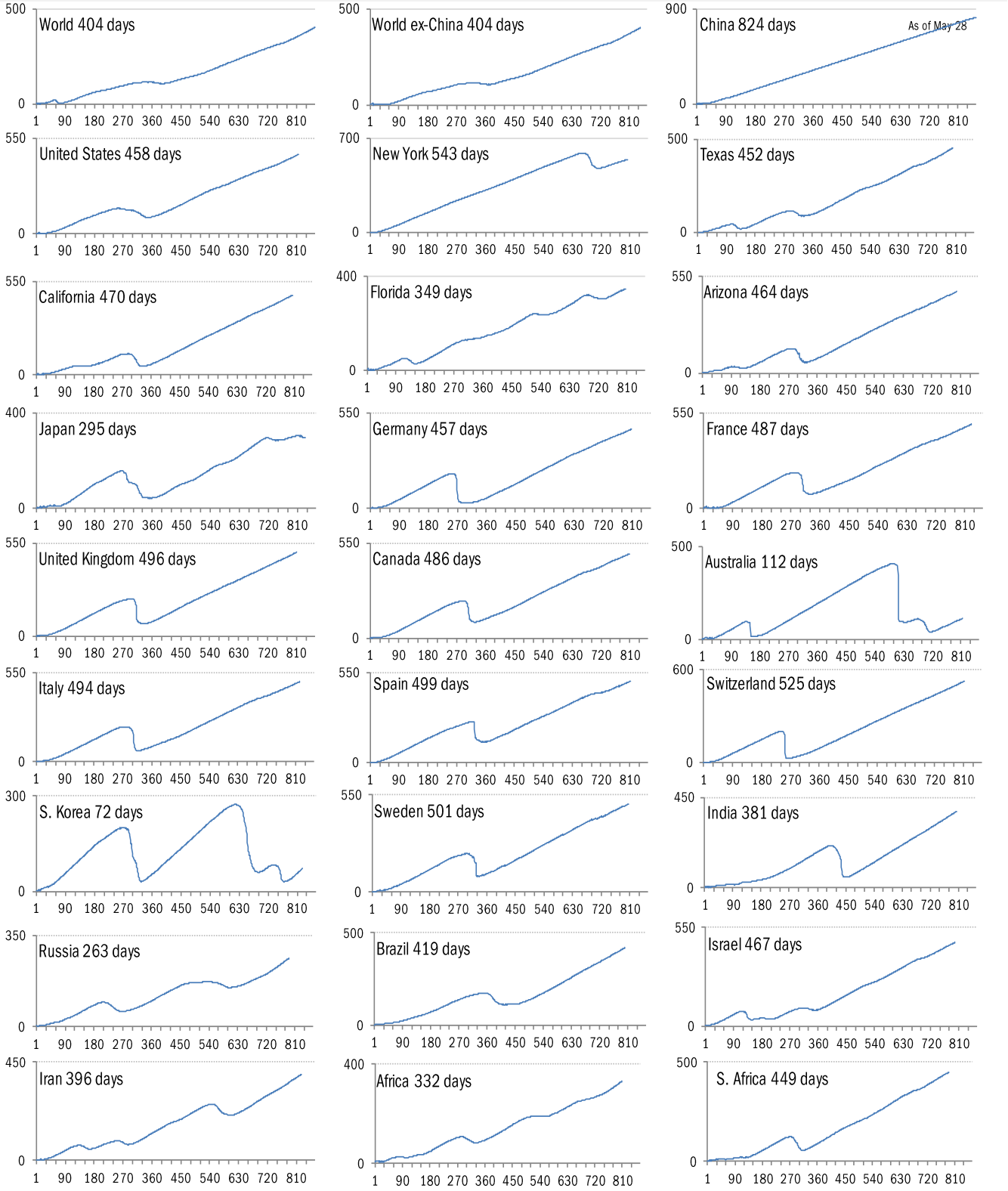


Source: Johns Hopkins, TrendMacro calculations

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

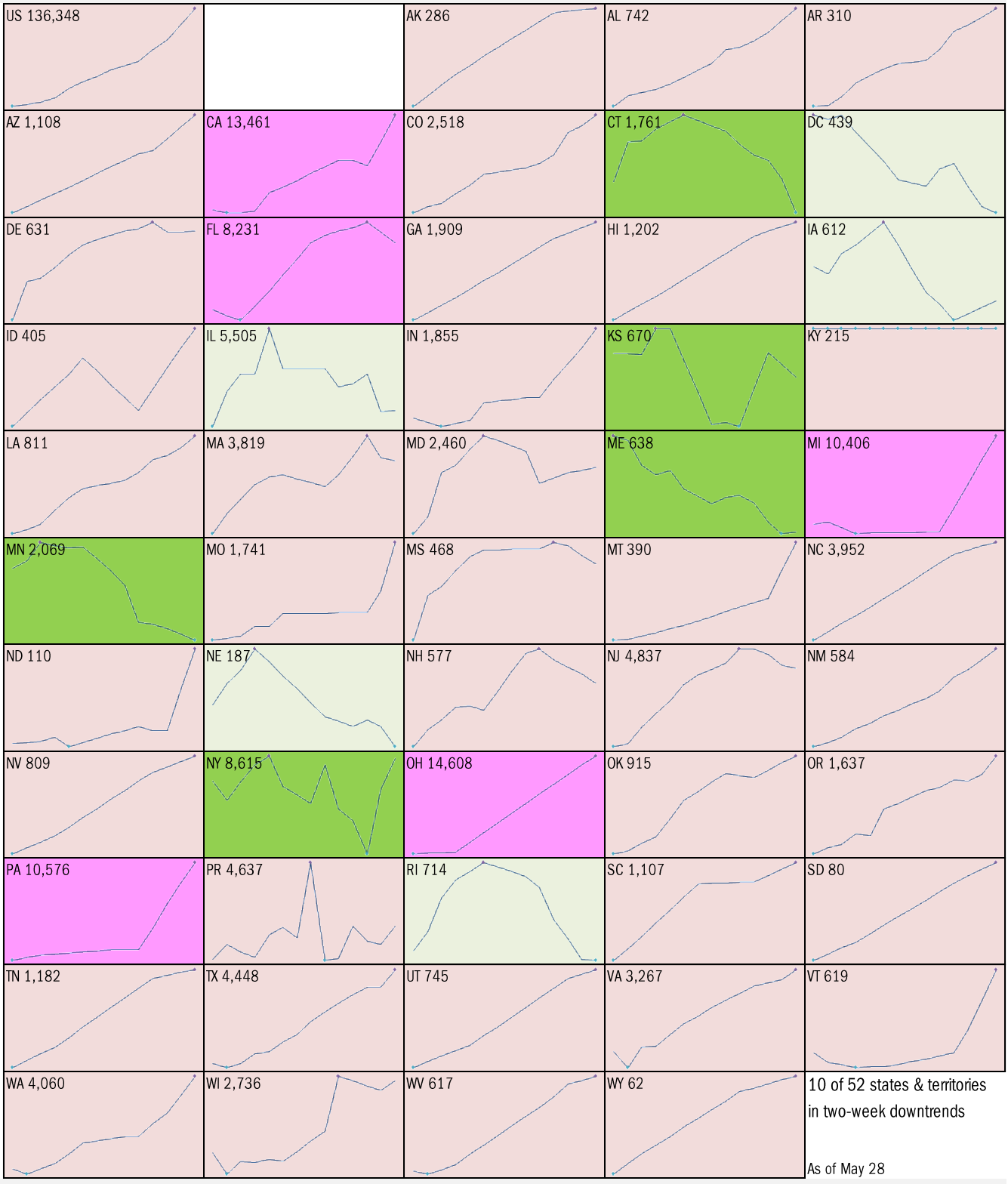


Source: Johns Hopkins, TrendMacro calculations

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**

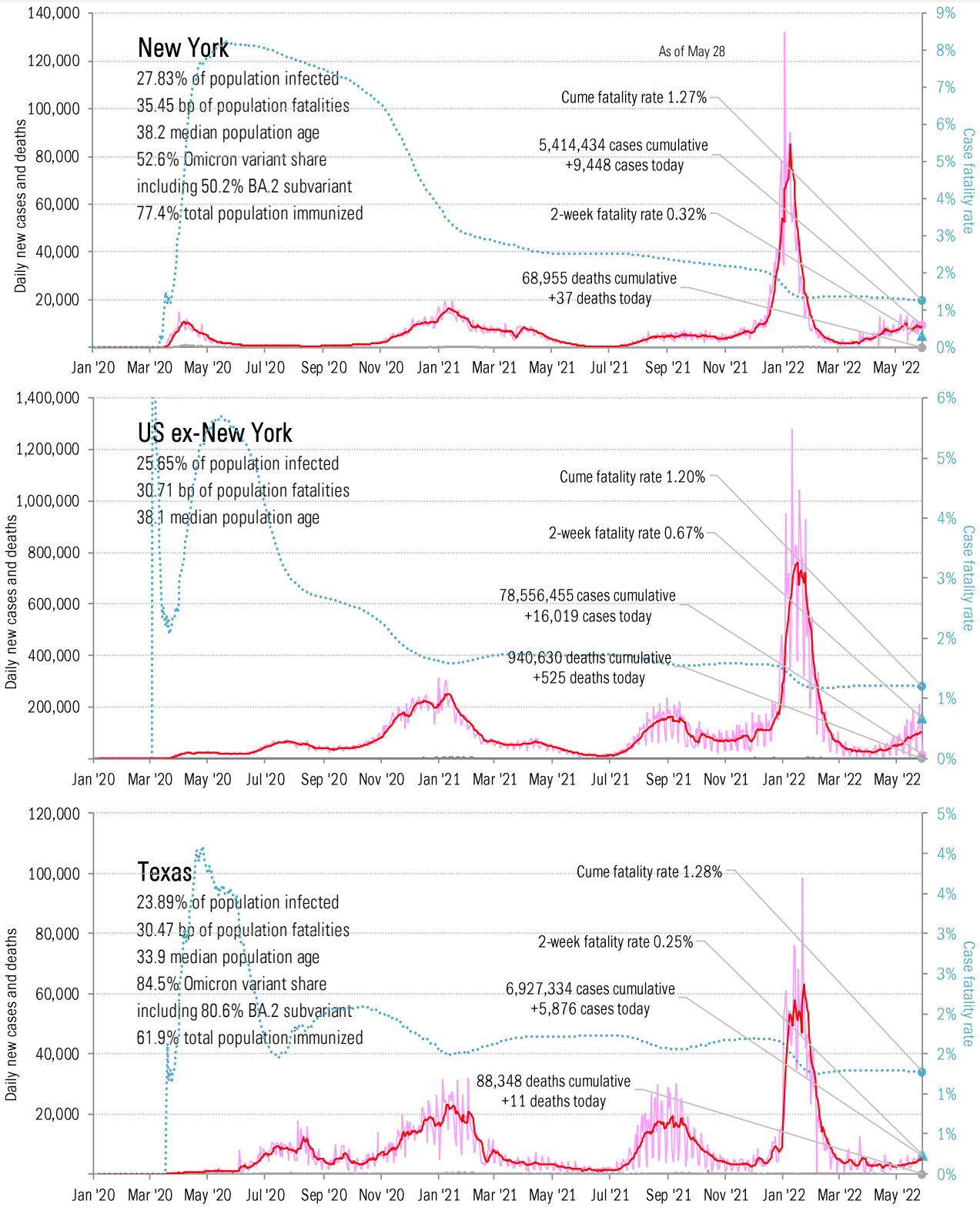
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

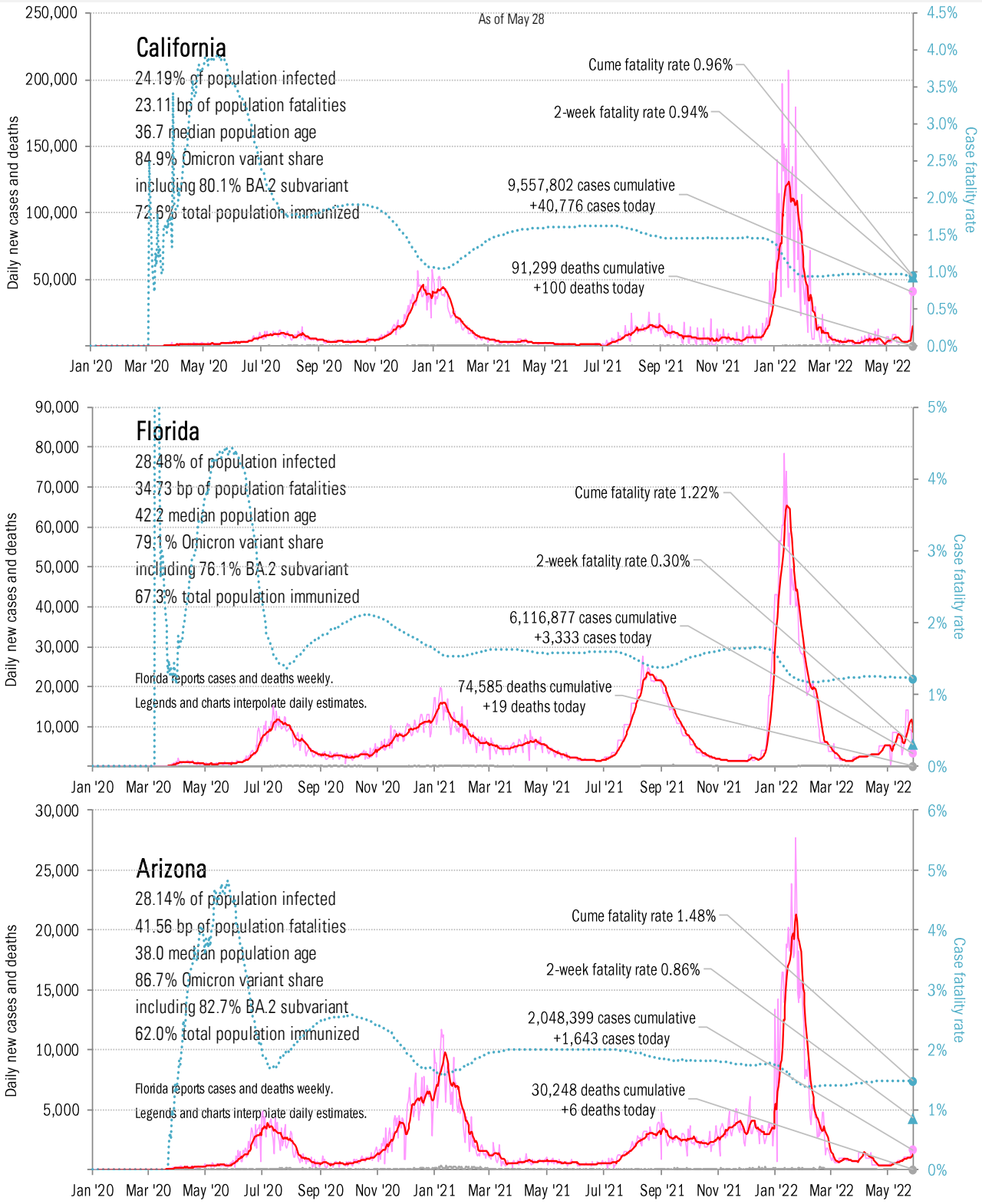
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

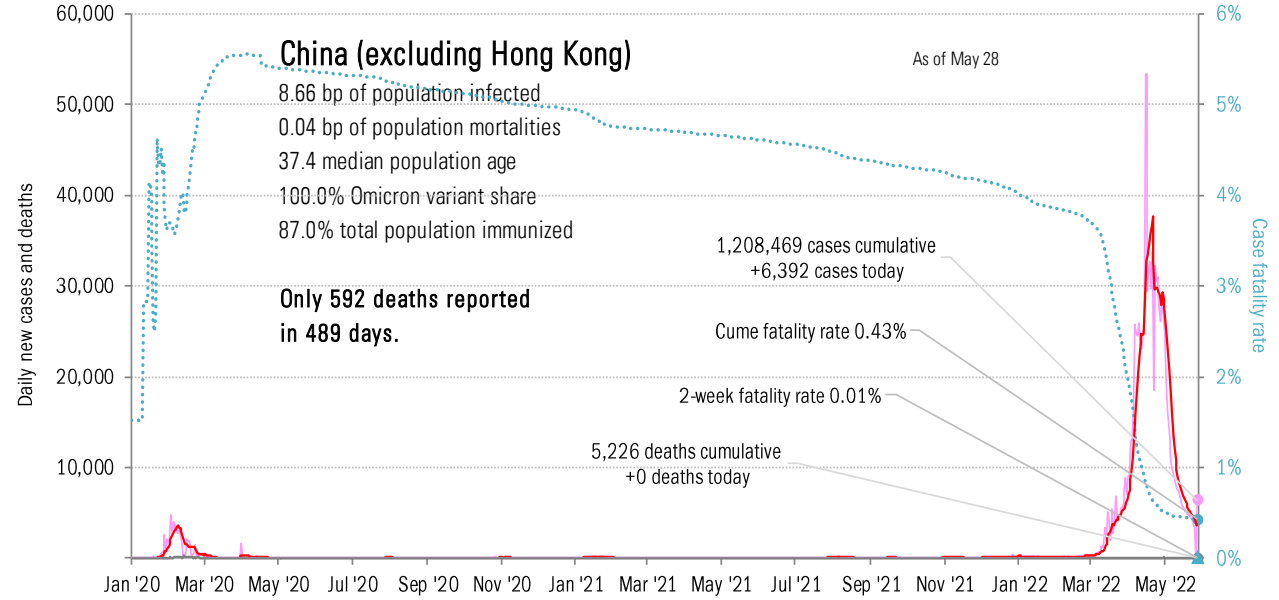
Cases: 7-day average and daily Deaths: Daily

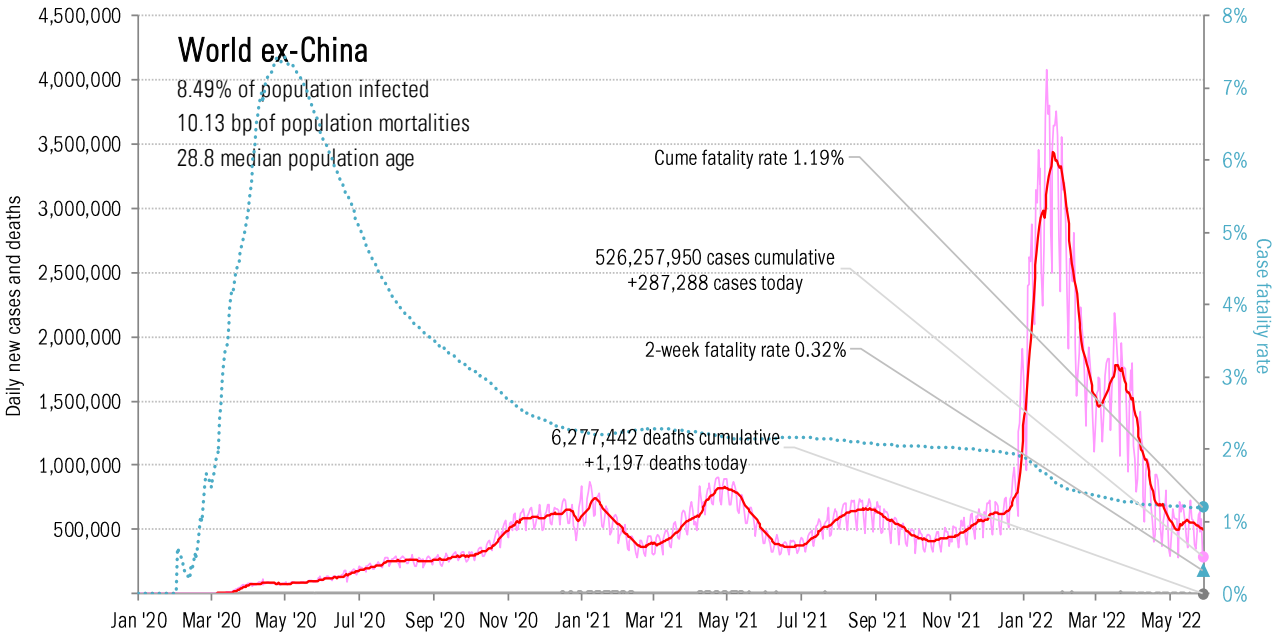


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

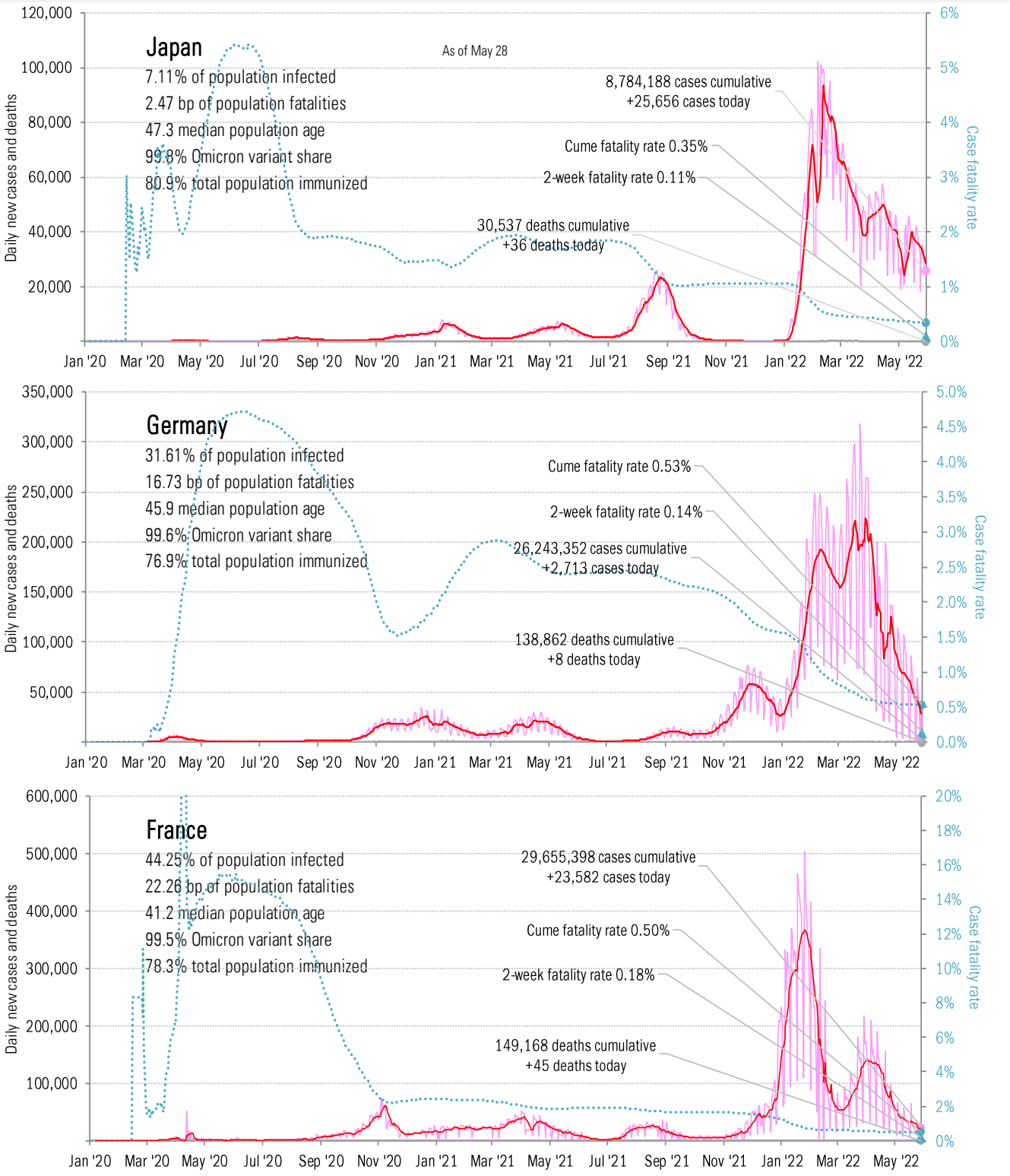




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

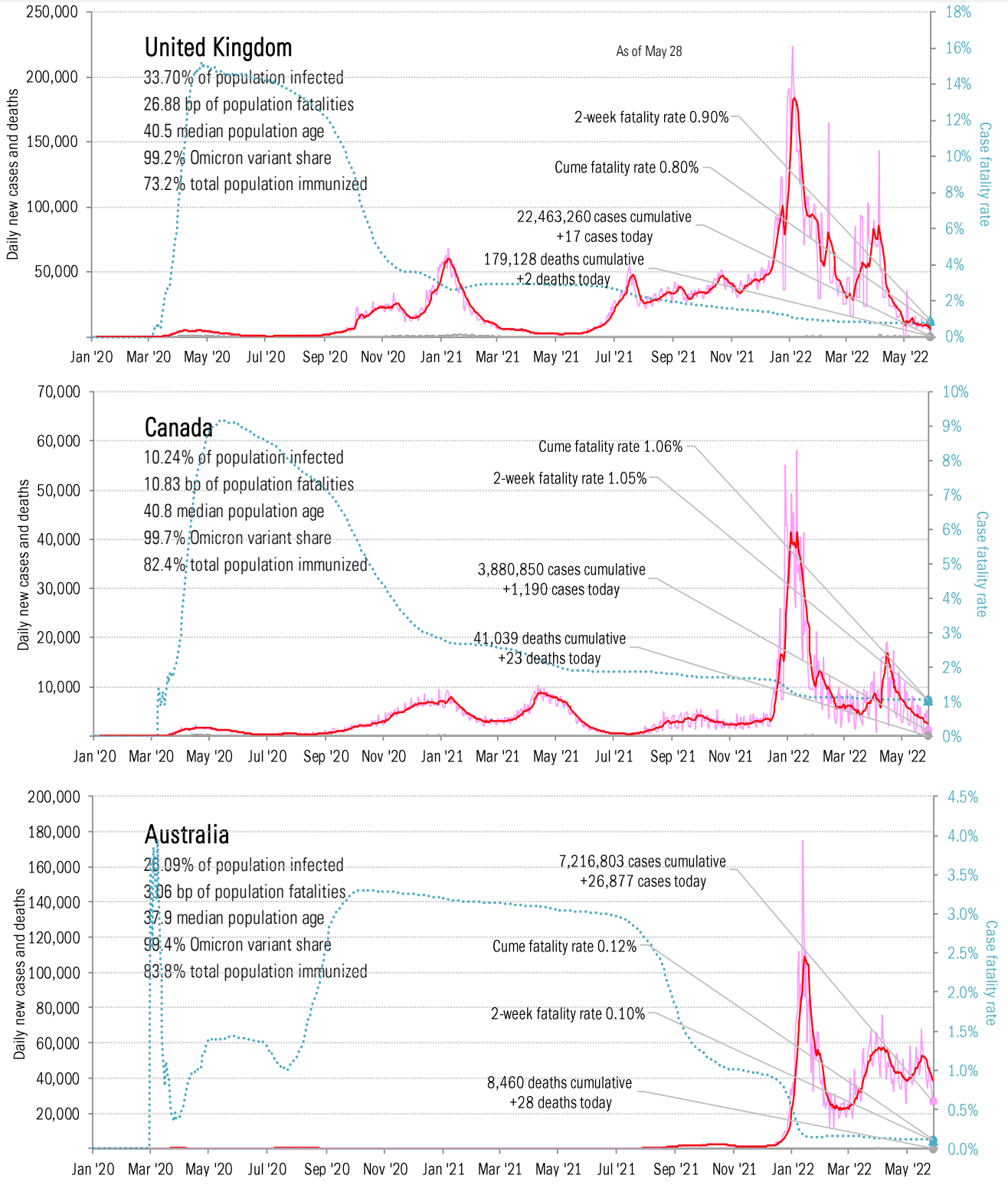
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

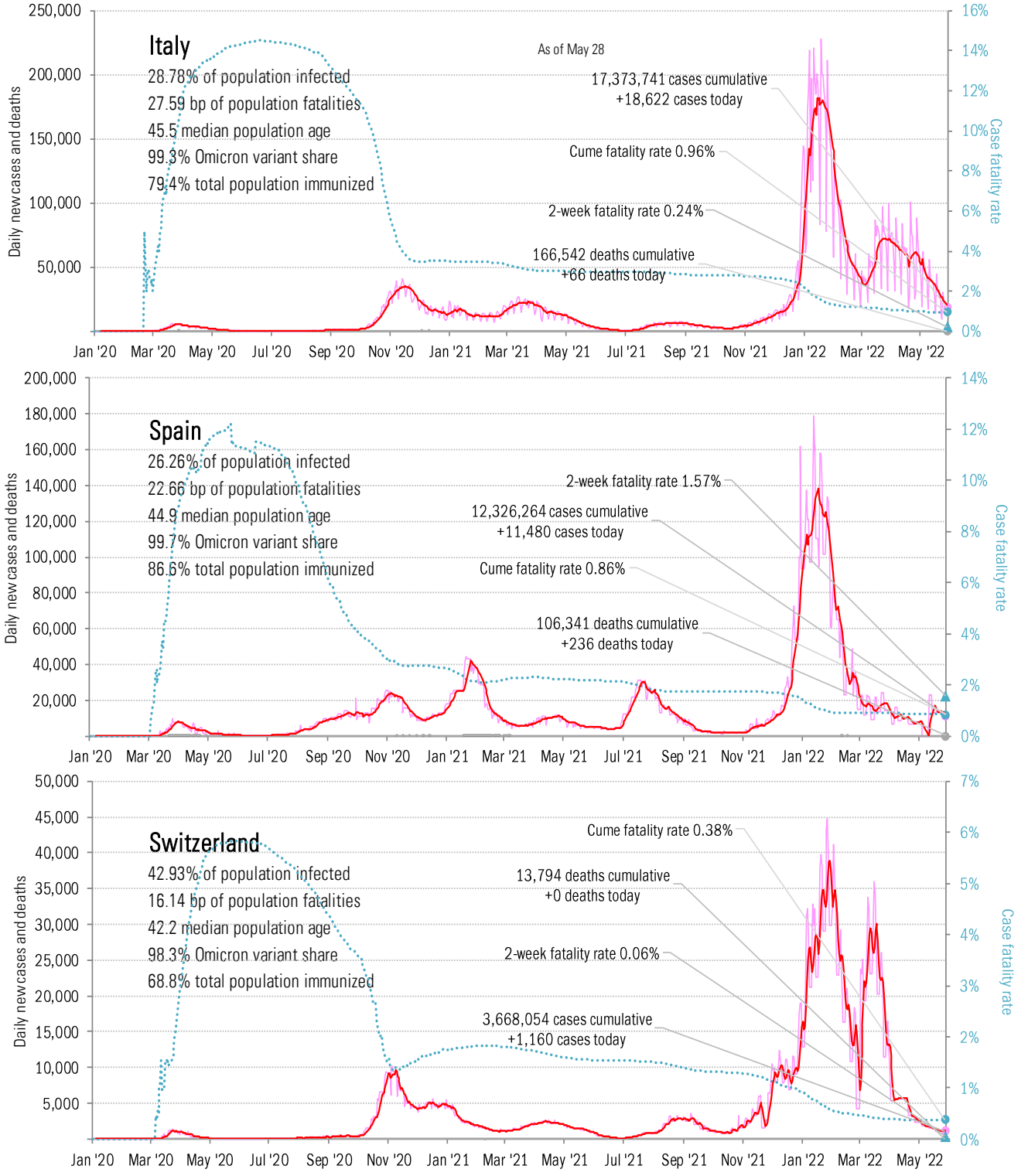
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

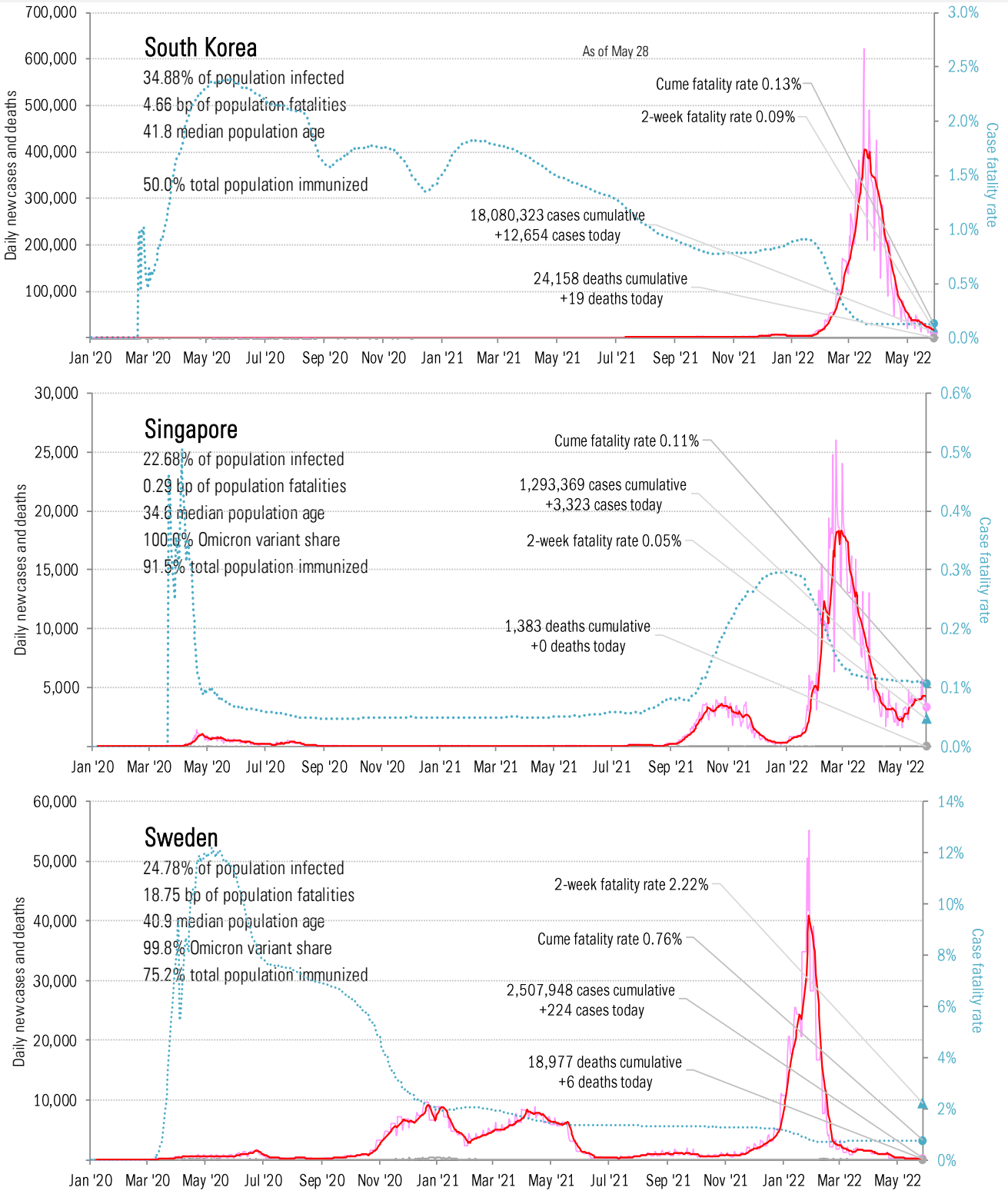
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

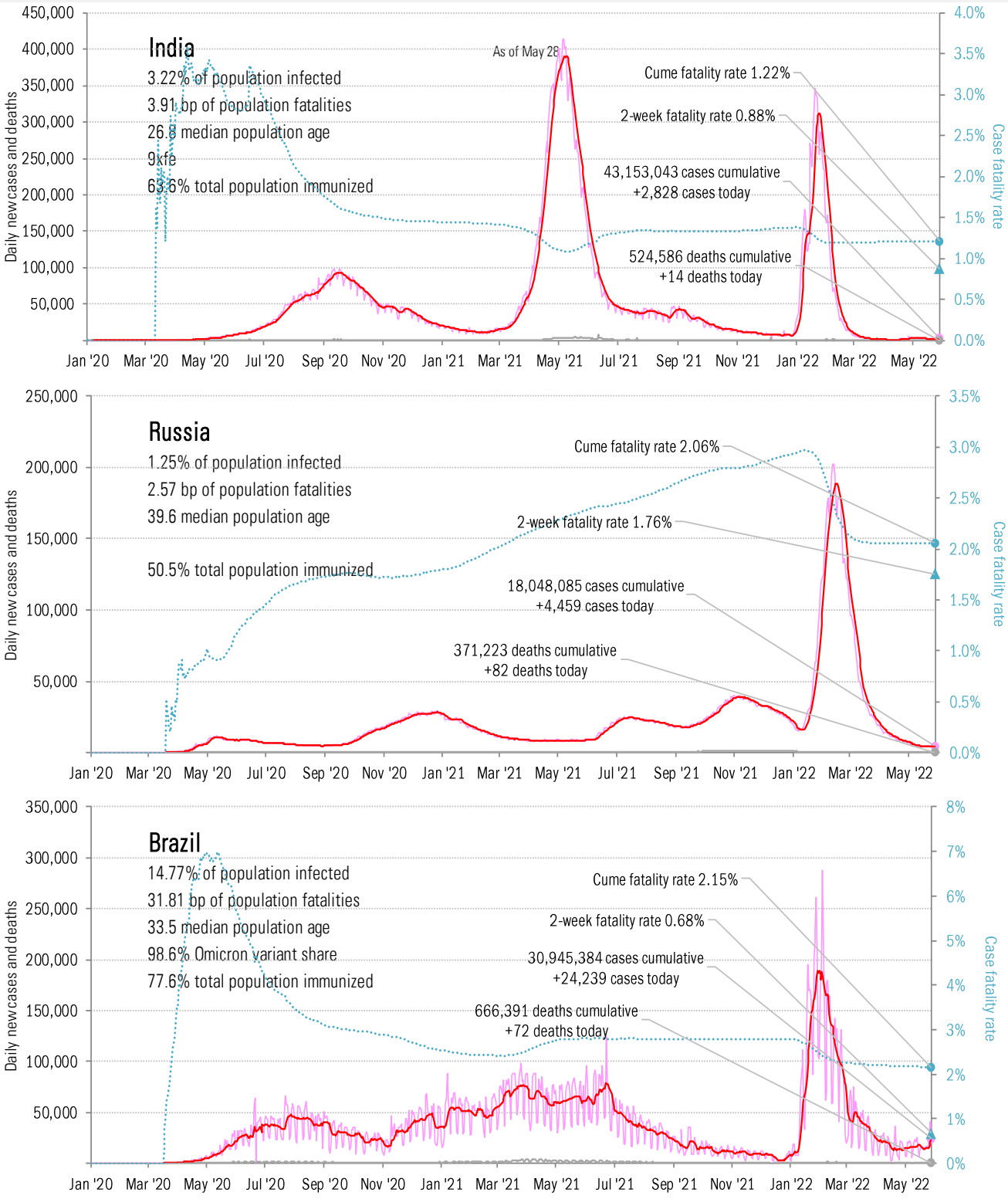
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

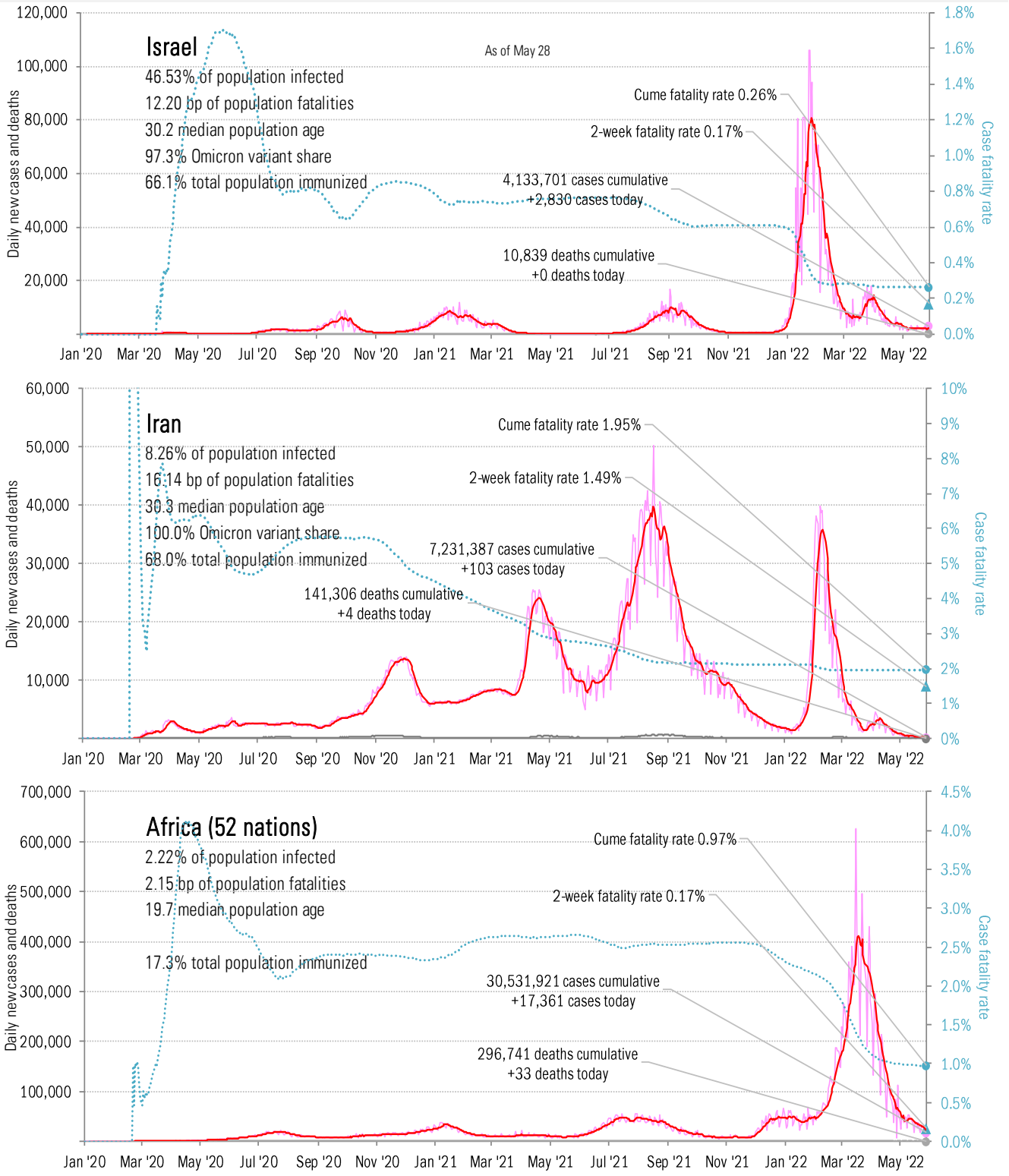
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

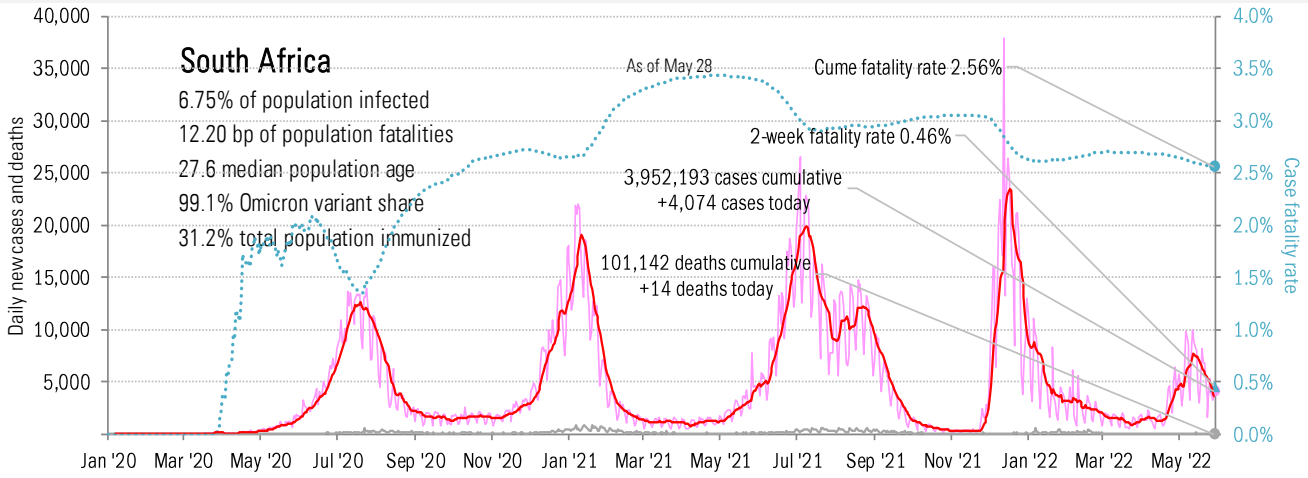
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations