

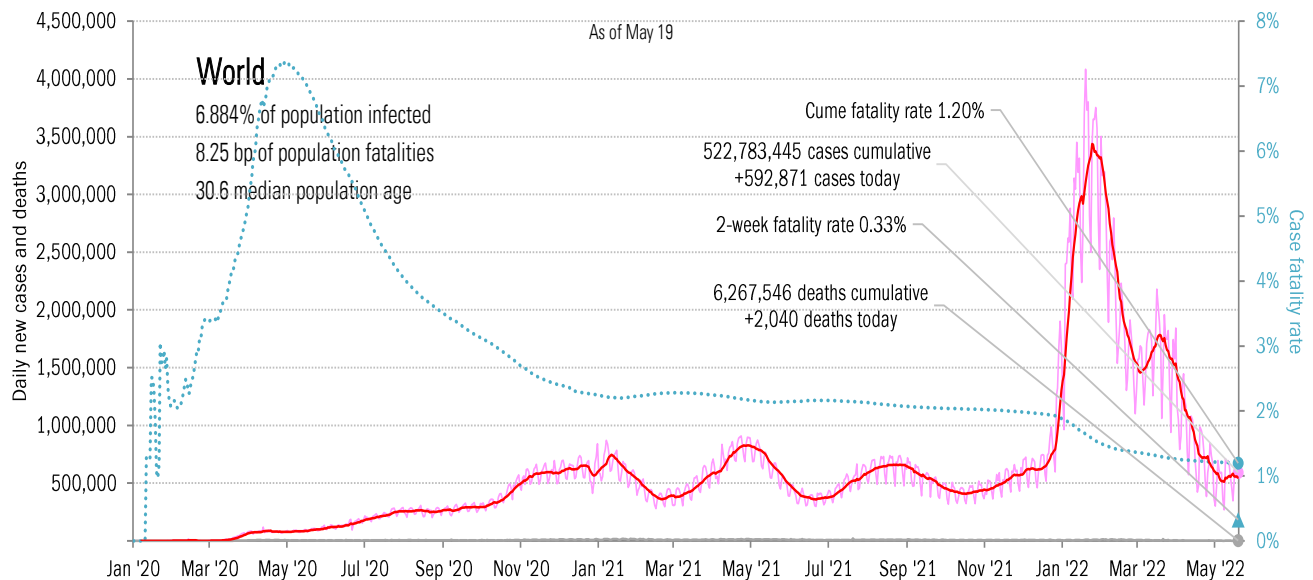
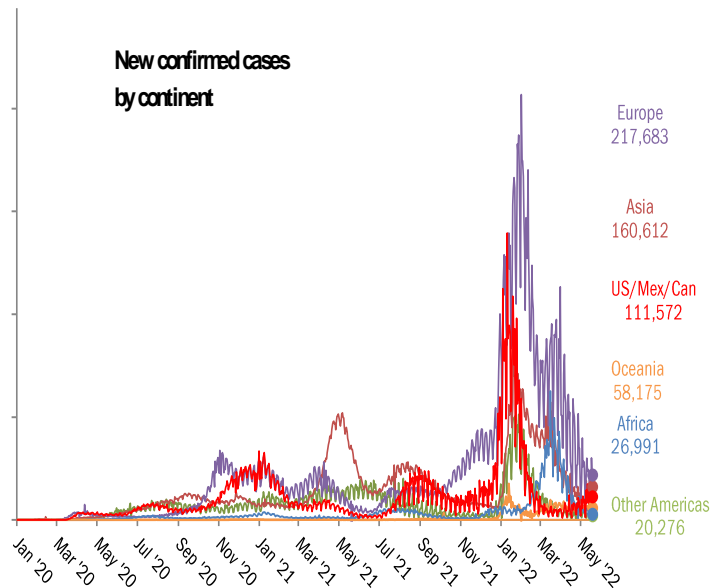
Data Insights: Covid-2019 Monitor

Friday, May 20, 2022

The global scorecard

Cases: **7-day average** and **daily** Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	107,142	United States	501
Taiwan*	89,420	Canada	191
Portugal	64,224	United Kingdom	169
Australia	50,229	Germany	151
Germany	48,910	Finland	122
Japan	39,570	Italy	108
Italy	30,722	Russia	95
France	27,842	Thailand	83
Korea, South	25,108	France	67
United Kingdom	13,812	Taiwan*	59
	496,979		1,546
World	592,871	World	2,040
Top ten	84%	Top ten	76%



Source: [Johns Hopkins](#), TrendMacro calculations

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

Cases: 7-day average and daily Deaths: Daily

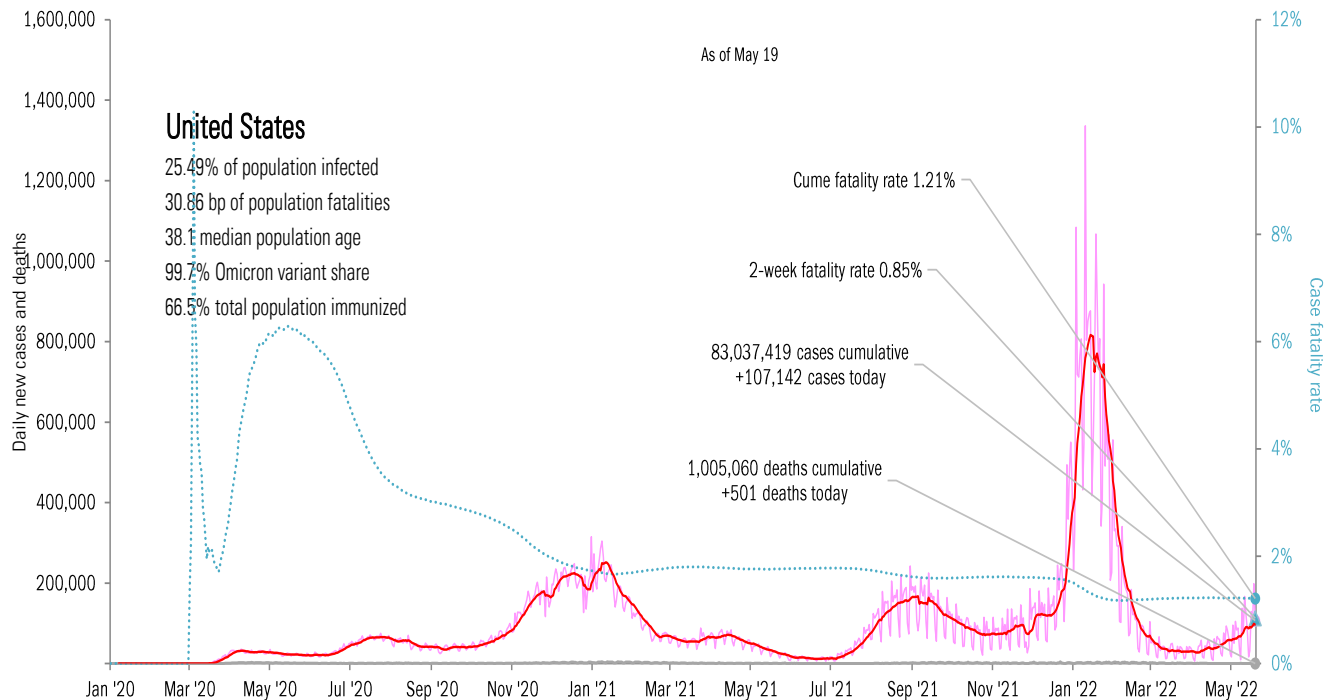
The ten worst US states

New cases			New deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use			
CH	19,536		CK	54		FL	337		CA	9,407,983		CA	90,918		TX	492,346		RI	93%		RI	89%	
NY	11,382		CH	40		CA	329		TX	6,888,680		TX	88,291		CA	431,053		MA	88%		TX	86%	
IL	7,555		NY	29		GA	97		FL	6,027,646		FL	74,404		FL	421,601		MN	85%		AK	85%	
FR	6,896		FL	20		MD	99		NY	5,345,195		NY	68,749		NY	258,592		MD	85%		NH	83%	
FL	6,798		TX	19		MI	179		IL	3,244,842		PA	44,898		GA	208,674		GA	85%		VW	83%	
NJ	5,995		IL	15		MA	149		PA	2,877,660		CH	38,590		CH	193,831		NH	84%		DE	82%	
MA	5,637		MA	15		LA	44		CH	2,743,577		GA	38,157		PA	179,901		PA	84%		VT	82%	
TX	5,100		CA	14		CO	42		NC	2,715,798		MI	36,218		IL	161,054		VW	83%		MA	82%	
CA	4,715		NM	14		KY	48		GA	2,541,713		IL	36,183		MI	145,020		IL	83%		NM	82%	
UT	4,504		OR	12		NY	419		MI	2,501,863		NJ	33,595		KY	133,705		MO	83%		AL	82%	
78,118			232			1,743			44,294,957			550,003			2,625,777								
All states	107,142			501			3,620		All states	83,037,419			1,005,060			4,767,699		All states	70%			67%	
Top ten	73%			46%			48%		Top ten	53%			55%			55%		Median	77%			75%	

Some states not reporting

Five most improved US states

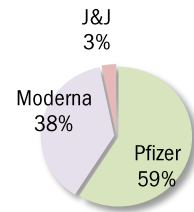
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-29,267	MO	-240	IL	-59	ID	+80 bp
PA	-25,604	FL	-124	CH	-56	CA	+10 bp
NC	-23,993	PA	-84	WI	-51	GA	+10 bp
GA	-11,115	KS	-80	FR	-46	IL	+10 bp
H	-7,149	MI	-78	NC	-37	MA	+10 bp



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		Immunity	Full	Partial	
Doses	598,616,098		+0.234 million		US	66.5%	77.7%	
Boosters	44,705,580		+0.016 million		UK	73.1%	78.2%	
	One dose	% Pop	Immune	% pop	New immune today	France	78.3%	80.7%
Total population	265,889,855	80%	227,132,945	68%	+0.036 million	Spain	86.6%	88.2%
Age 12 to 17	17,754,917	70%	15,208,419	60%	+0.009 million	Germany	76.9%	76.9%
Age 18 to 64	178,704,291	88%	152,019,409	75%	+0.016 million	Italy	79.4%	84.1%
Age 65 and over	59,026,304	100%	51,499,052	94%	+0.009 million	Australia	83.7%	86.5%
						Israel	66.1%	72.2%
						Canada	82.4%	86.2%
						Japan	80.8%	82.1%
						Africa	17.1%	22.4%
						India	63.0%	72.4%
						Brazil	77.3%	85.6%
						China	86.7%	89.1%



State	Best
At least partial immunity as % population	Middle
Full immunity as % population	Worst

"Immunity" = two doses

AK
69.9%
62.6%

WI
72.0%
65.8%

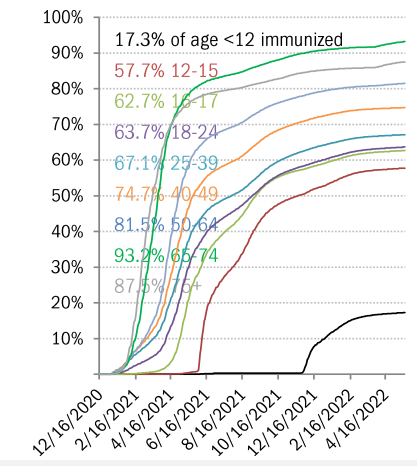
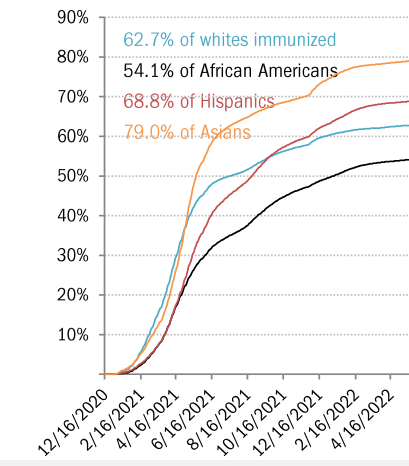
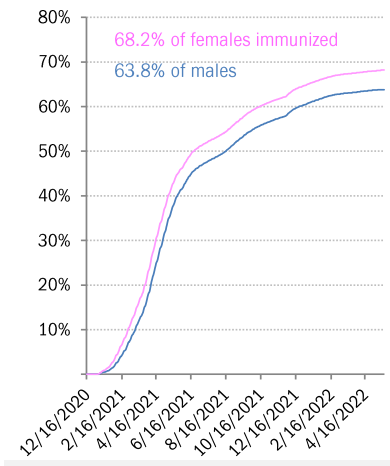
As of May 19

ME
90.9%
79.9%

WA 81.0% 72.8%	ID 61.8% 55.5%	MT 65.4% 56.9%	ND 65.7% 55.7%	MN 75.3% 69.4%	IL 76.9% 69.3%	MI 67.1% 60.3%	NY 90.4% 77.2%	VT 93.8% 81.4%	NH 88.7% 70.8%	
OR 78.1% 69.8%	NV 75.5% 61.0%	WY 58.2% 51.0%	SD 76.9% 61.9%	IA 68.1% 62.1%	IN 61.6% 55.0%	OH 63.8% 58.9%	PA 85.3% 68.8%	NJ 90.7% 75.9%	MA 95.0% 79.4%	
CA 82.4% 72.5%	UT 72.3% 64.5%	CO 79.6% 70.4%	NE 70.4% 63.7%	MO 66.4% 56.3%	KY 66.3% 57.5%	WV 65.2% 57.8%	VA 86.0% 73.5%	MD 86.8% 75.9%	CT 95.0% 79.5%	RI 95.0% 83.0%
	AZ 73.4% 61.8%	NM 88.1% 71.4%	KS 74.7% 61.7%	AR 66.9% 54.6%	TN 62.3% 54.7%	NC 84.7% 61.6%	SC 67.9% 57.2%	DC 95.0% 78.1%	DE 83.5% 69.5%	
			OK 71.3% 57.5%	LA 61.1% 53.6%	MS 59.7% 52.0%	AL 62.9% 51.3%	GA 65.6% 55.0%			
			TX 73.5% 61.7%					FL 79.6% 67.2%	PR 95.0% 83.3%	

HI
87.6%
78.5%

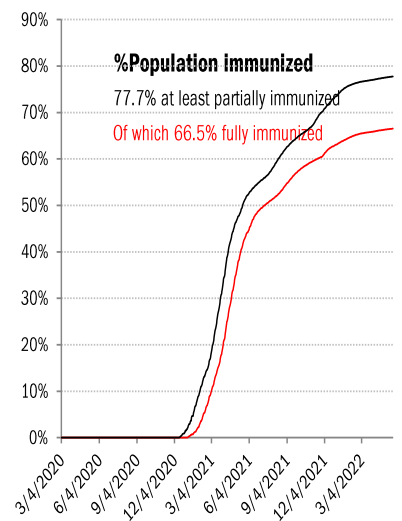
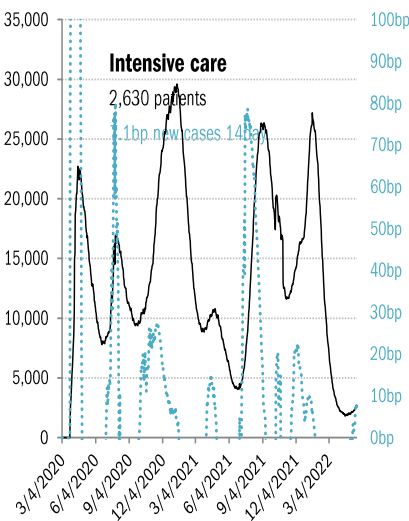
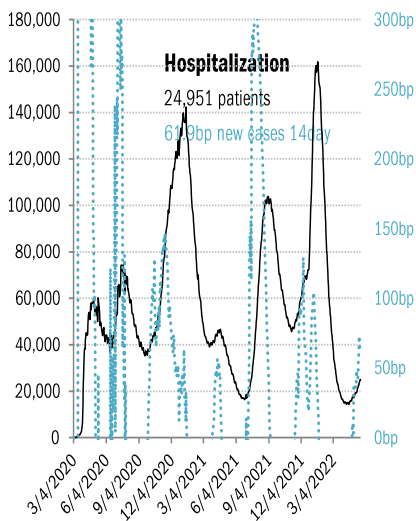
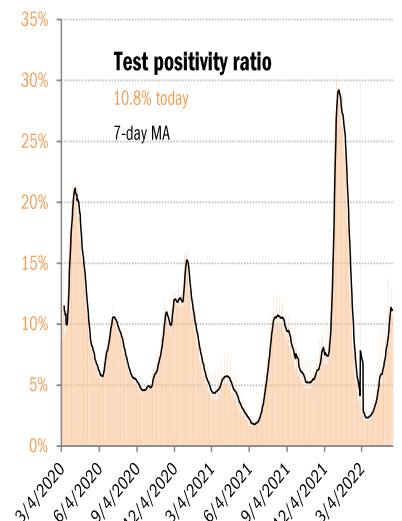
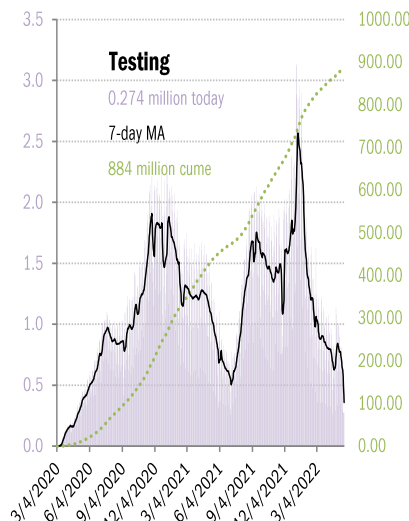
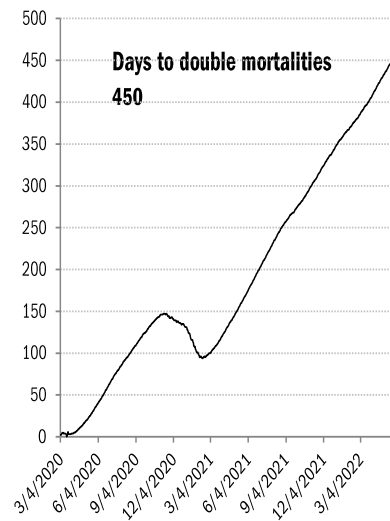
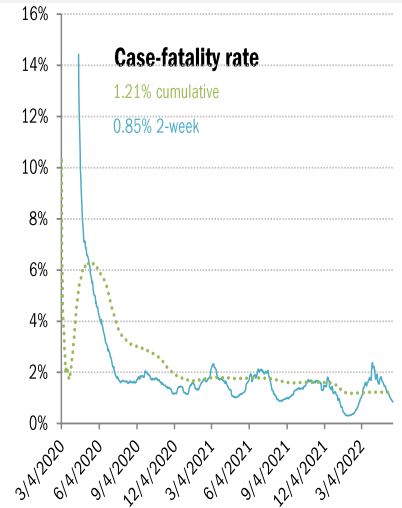
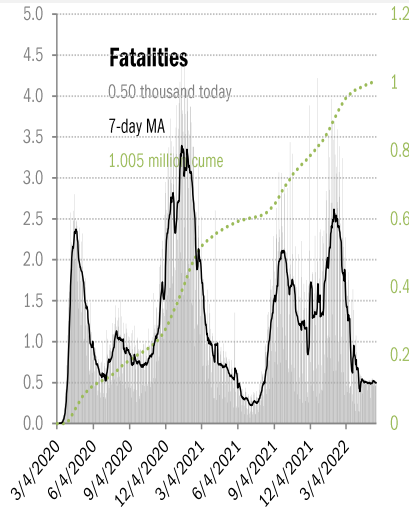
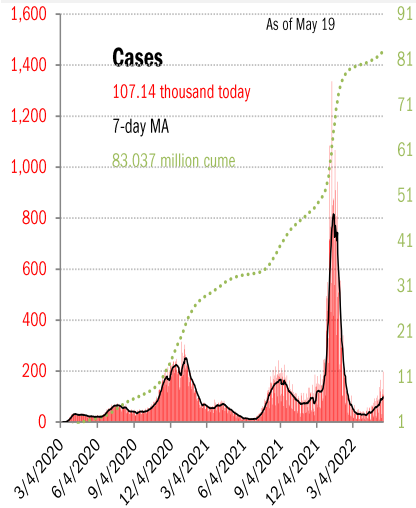
The demographics of US vaccination



Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

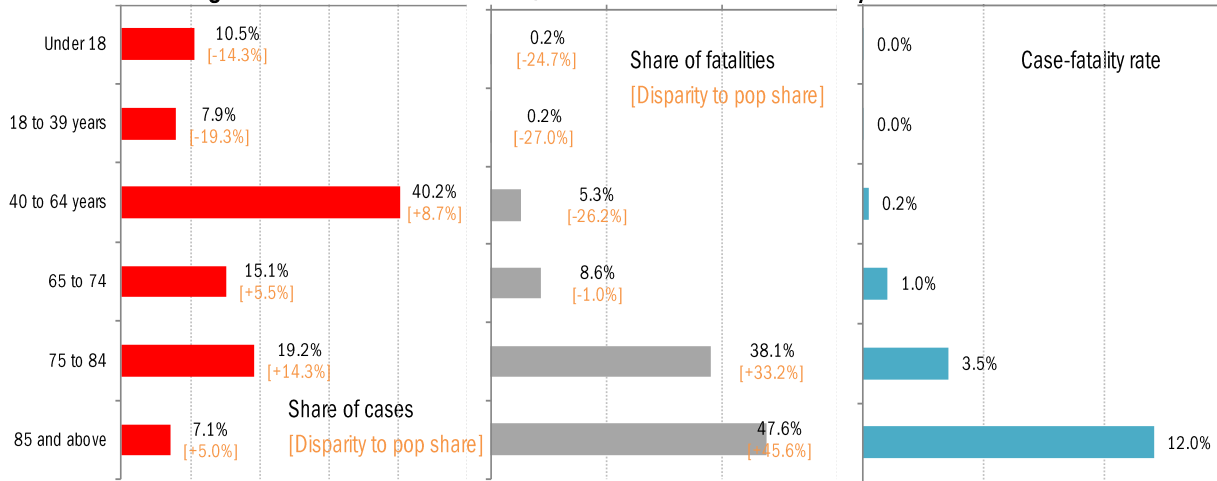
US deep-dive

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

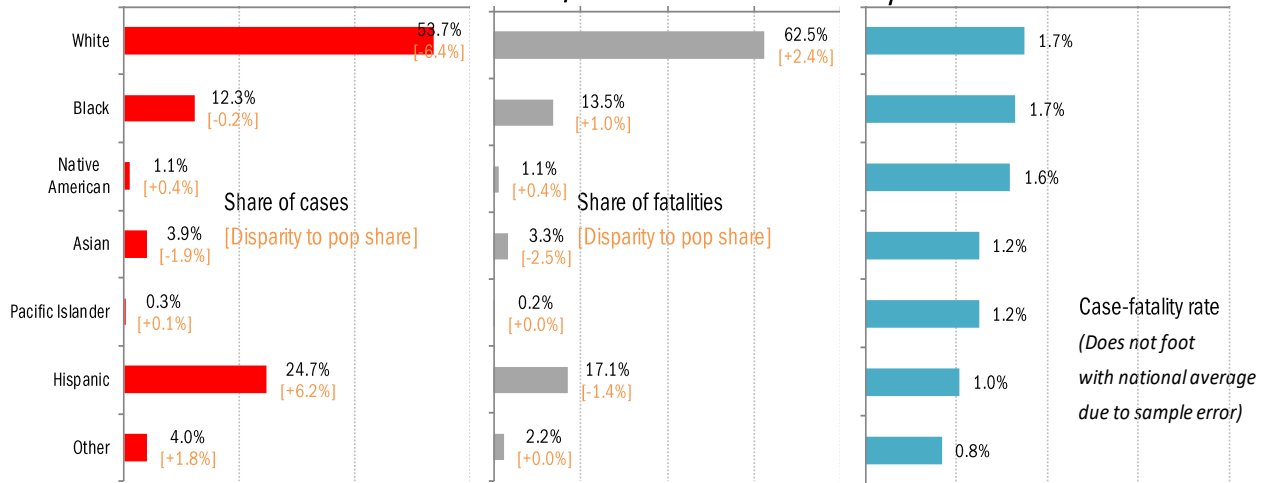


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

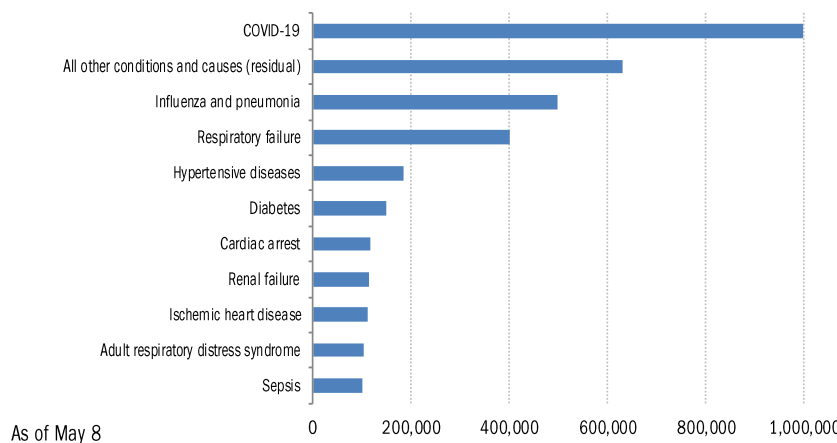


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



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 Adams Is Rejecting Mask Mandates as Covid Cases Rise in New York](#)

Emma G. Fitzsimmons
New York Times
May 19, 2022

[Combined insertion of basic and non-basic amino acids at hemagglutinin cleavage site of highly pathogenic H7N9 virus promotes replication and pathogenicity in chickens and mic](#)

Aobaixue Zhou, et al.
Virologica Sinica
January 13, 2022

[Wuhan Lab Publishes Study Manipulating H7N9 Virus To Be More Lethal.](#)

Natalie Winters
National Pulse
May 19, 2022

[U.S. Bioethics Chief, Who Happens to be Fauci's Wife, Published a New Paper Telling Corporates They Can Ethically 'Pressure Employees' And 'Embarrass Vaccine Resistors.'](#)

Natalie Winters
National Pulse
May 18, 2022

[Pandemic gets tougher to track as COVID testing plunges](#)

Laura Ungar
Los Angeles Times
May 14, 2022

[How Often Can You Get COVID-19? The Truth About Coronavirus Reinfection](#)

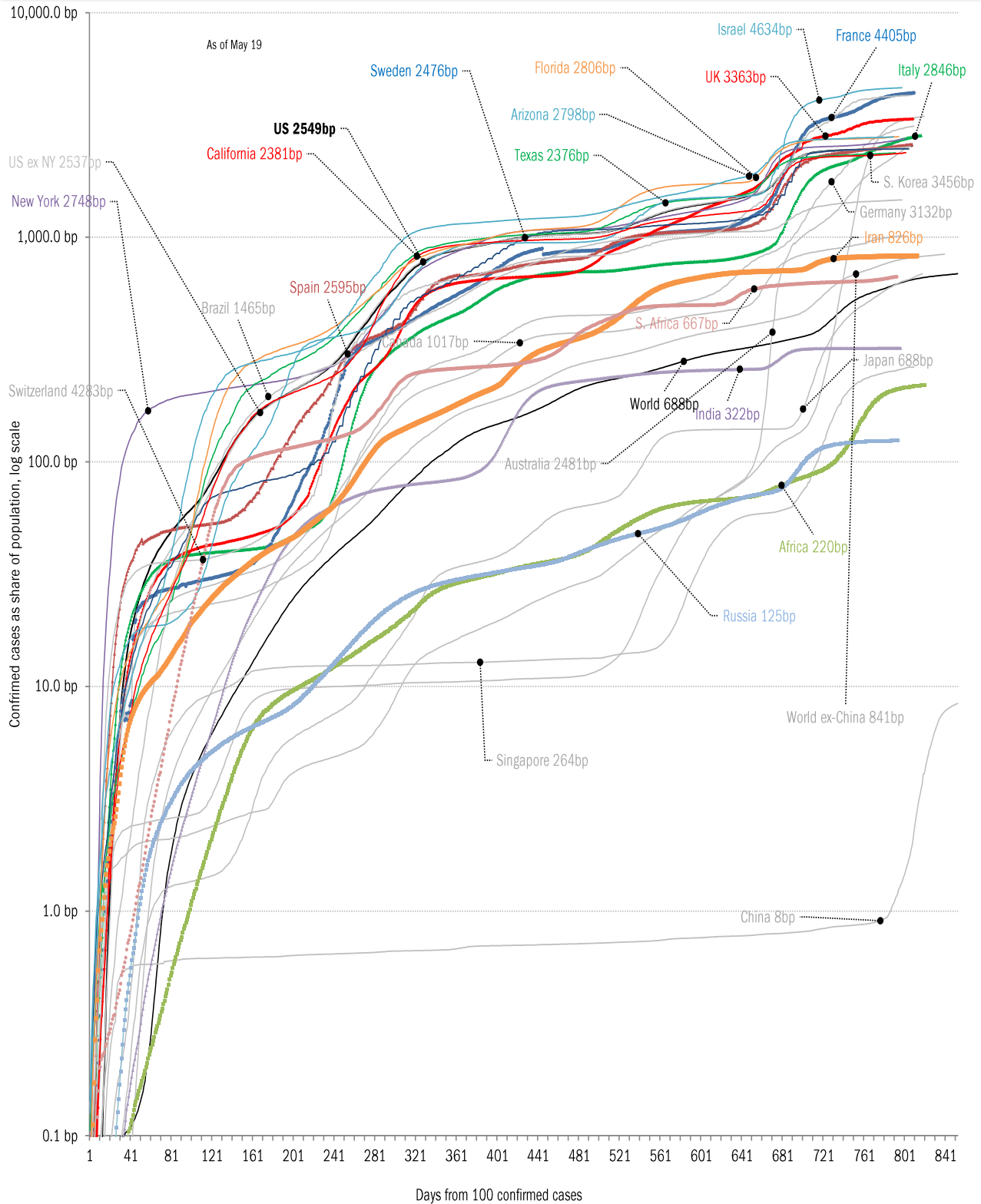
Korin Miller
Prevention
May 18, 2022

Meme of the day



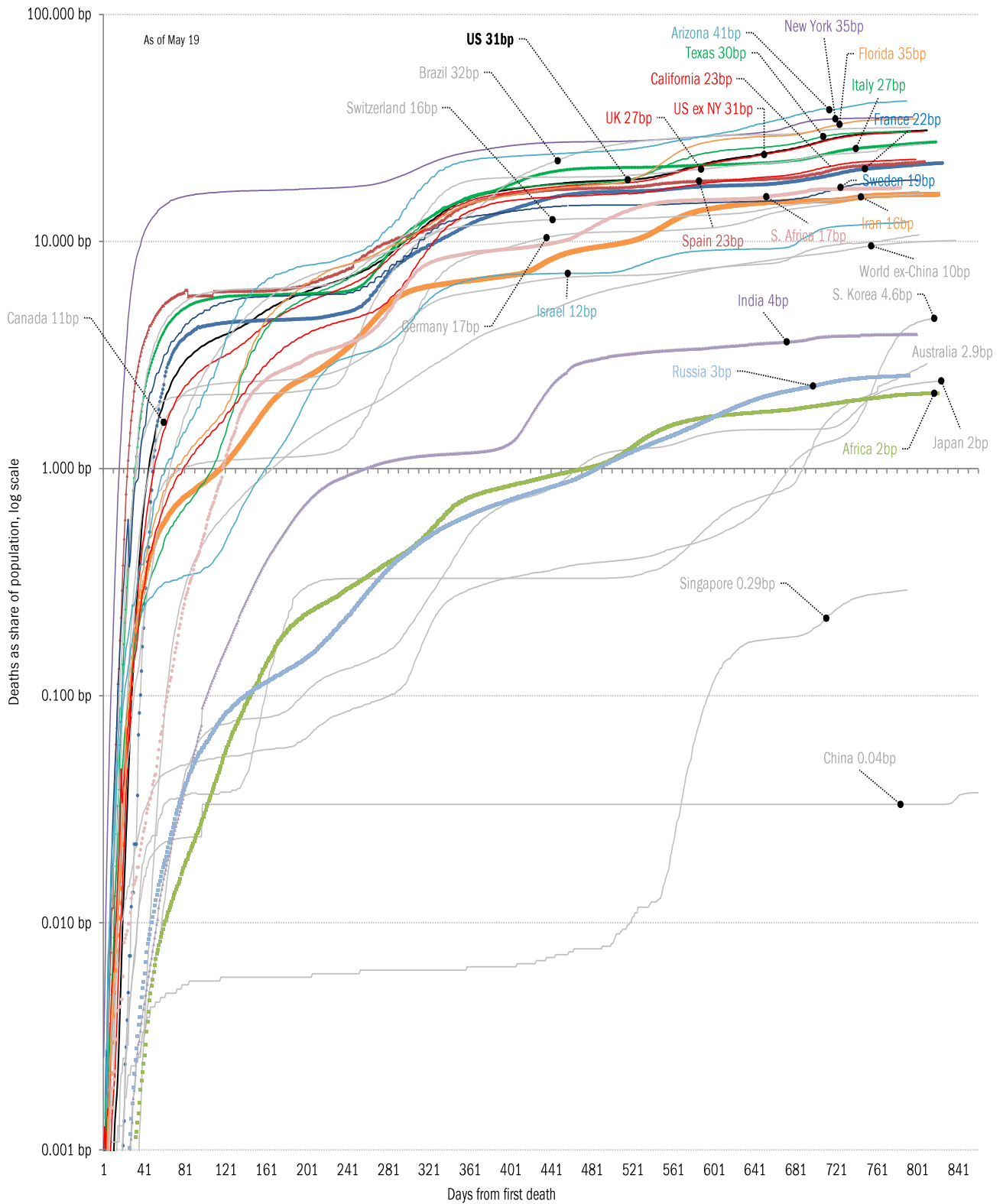
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

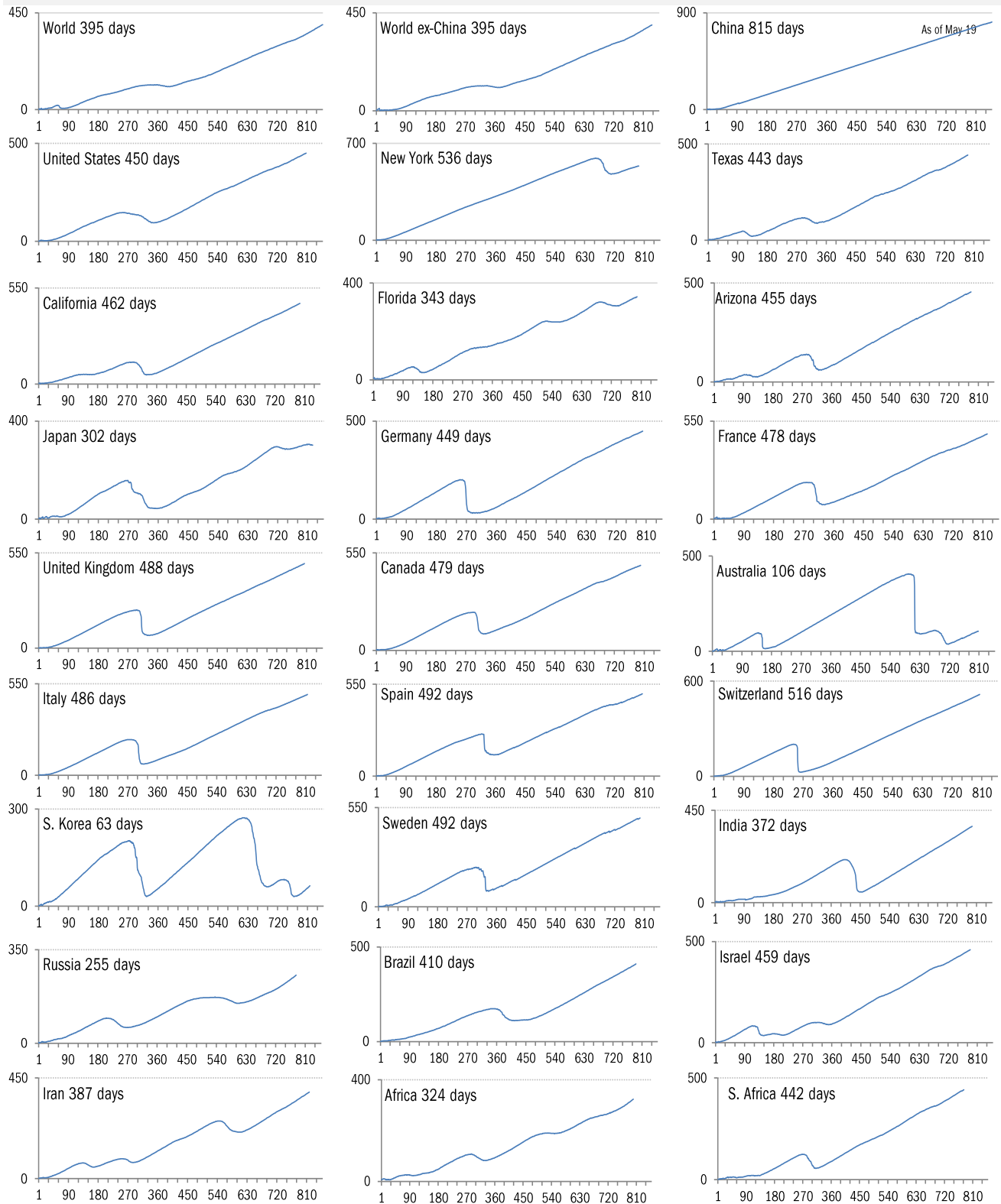


Source: [Johns Hopkins](#), TrendMacro calculations

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

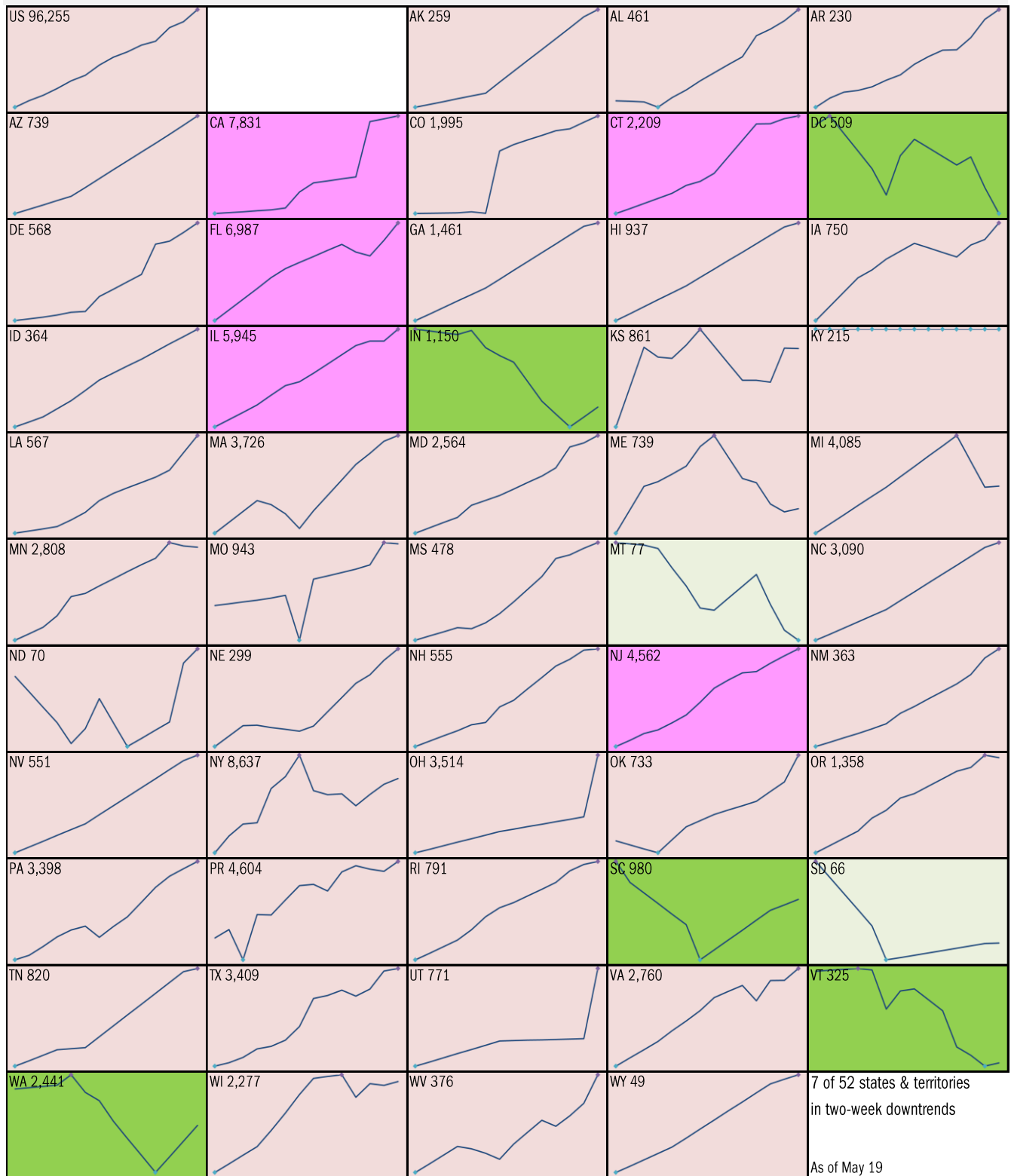


Source: [Johns Hopkins](#), TrendMacro calculations

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

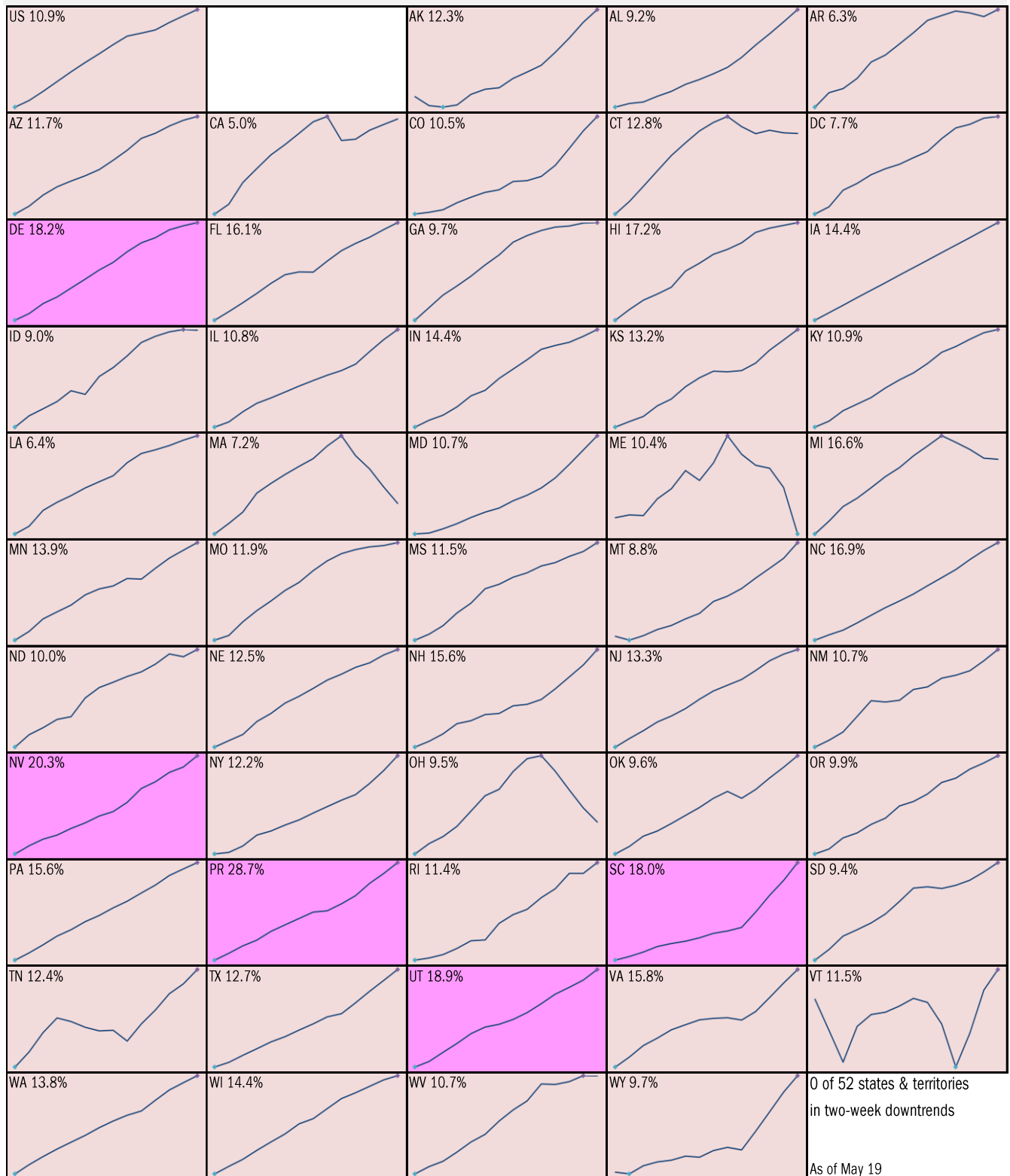


Source: [Johns Hopkins](#), TrendMacro calculations

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

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

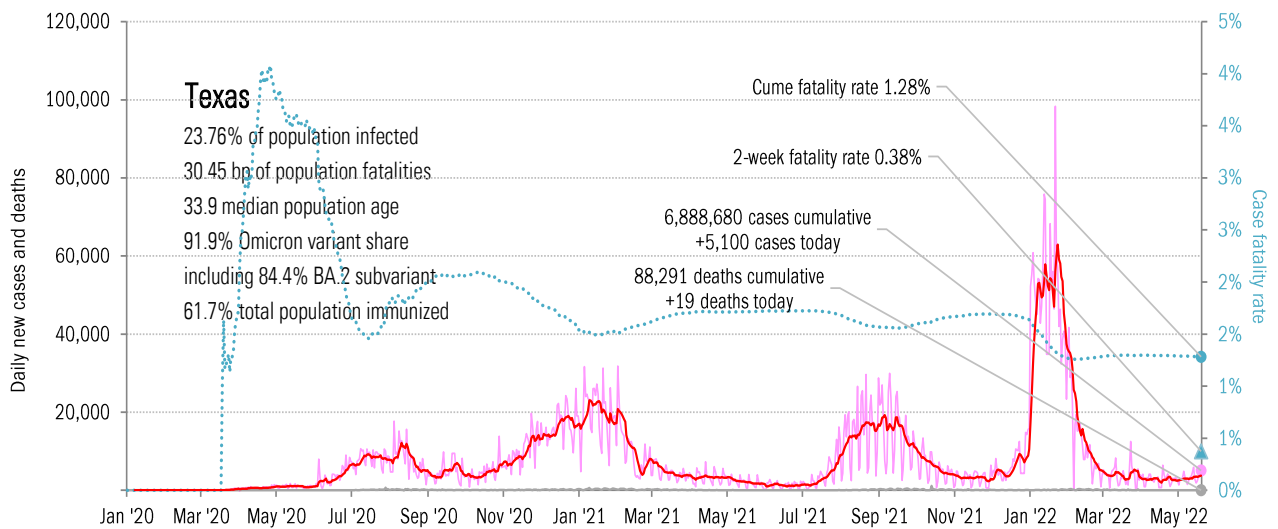
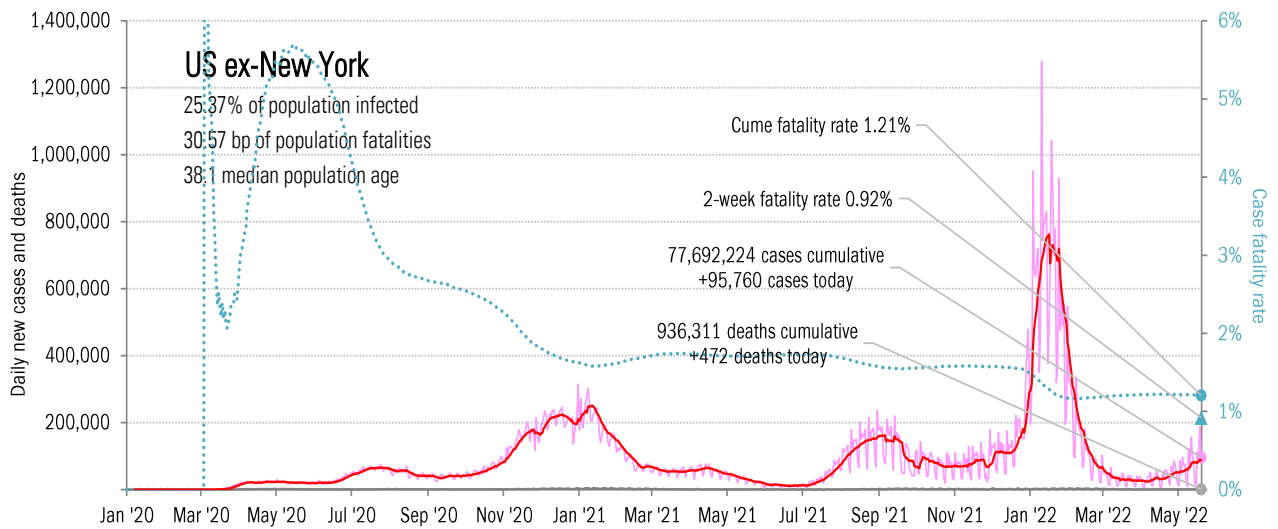
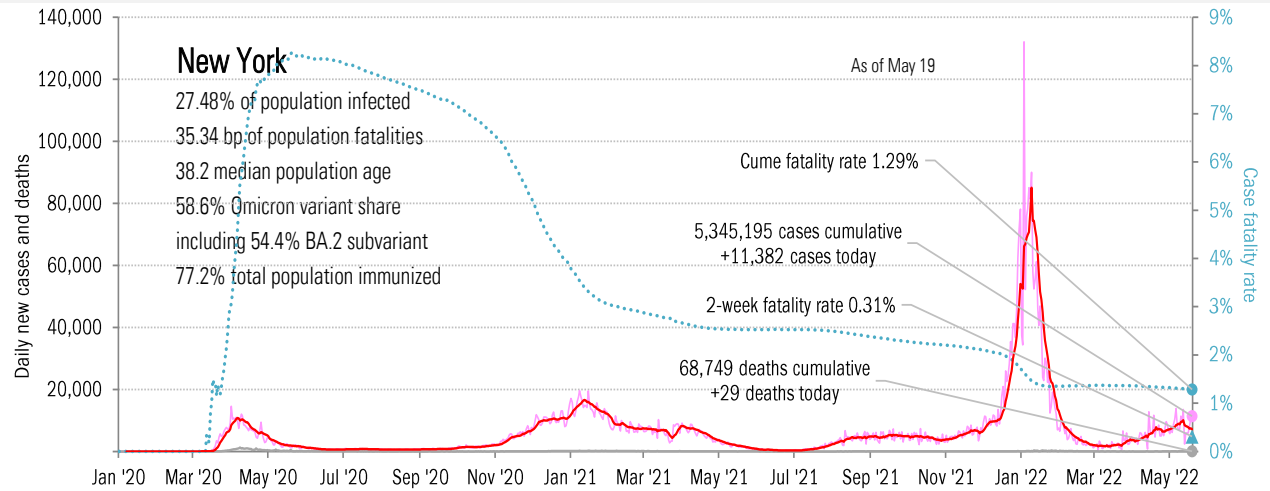
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande

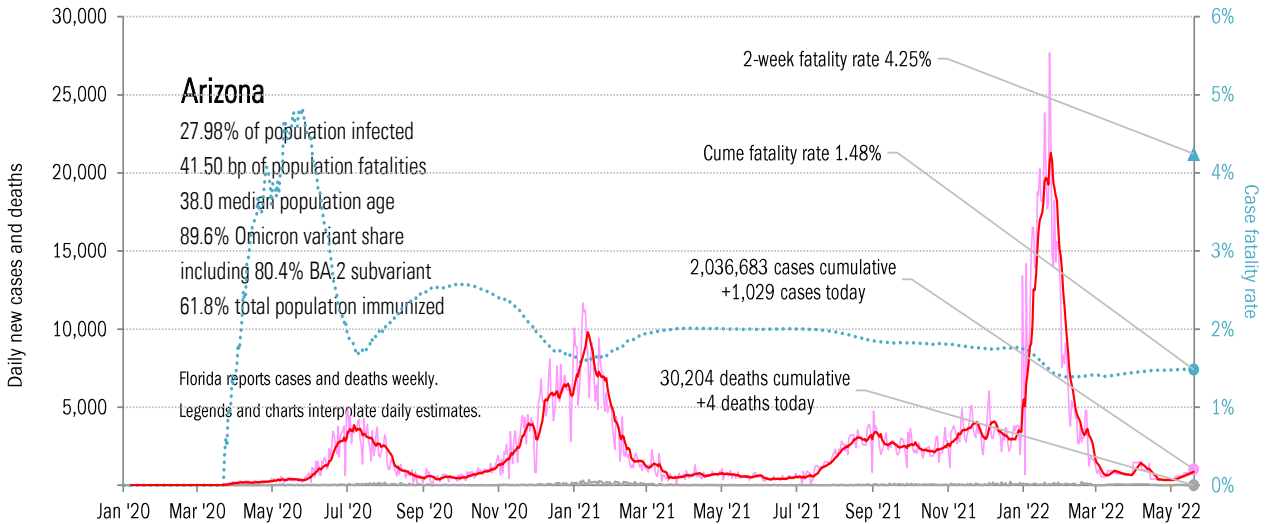
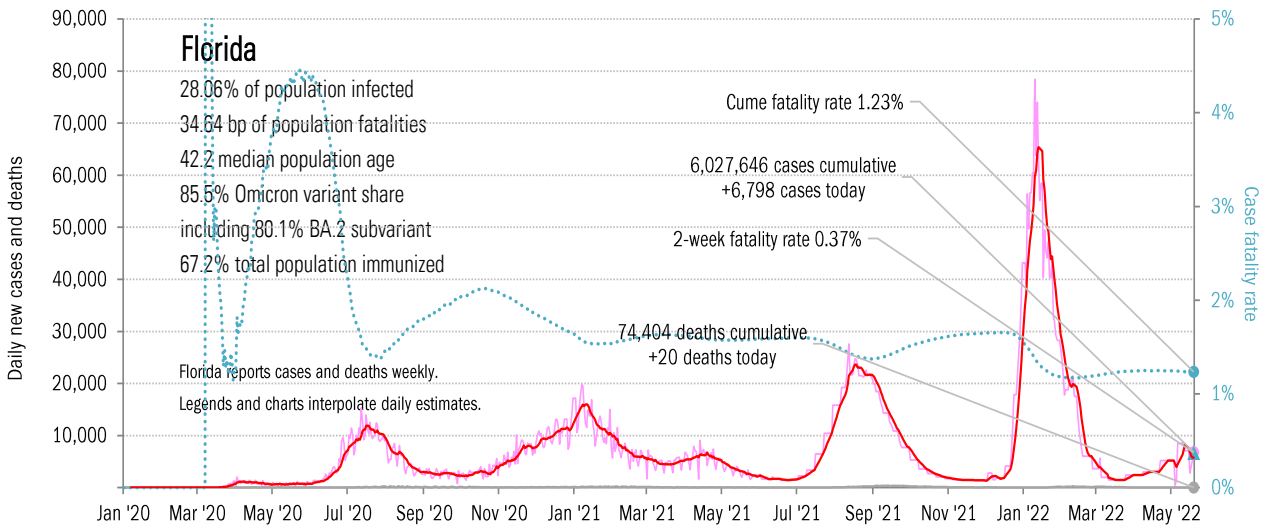
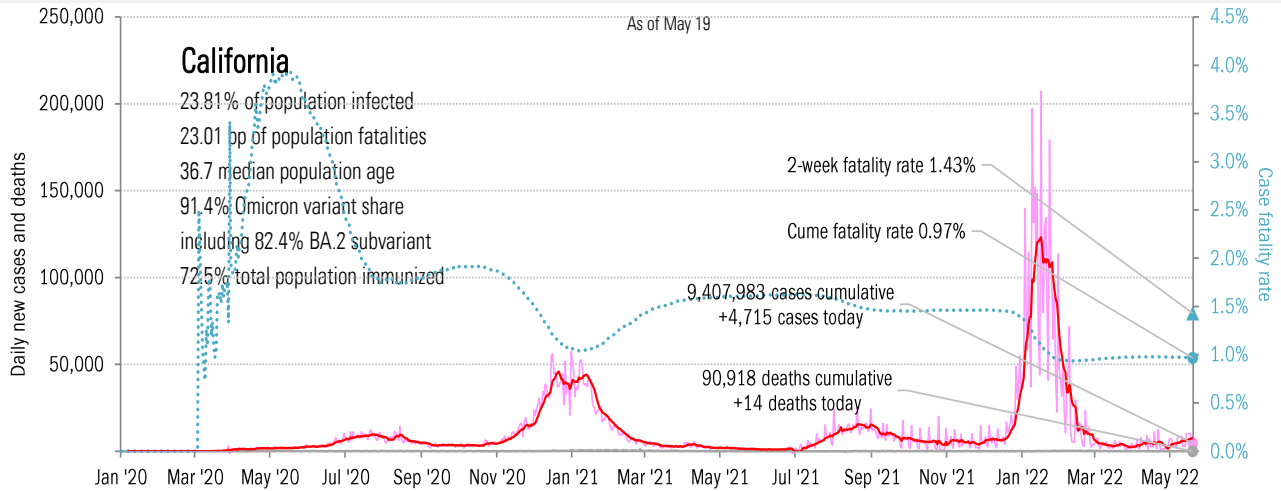
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

The sun-belt hot-spot states

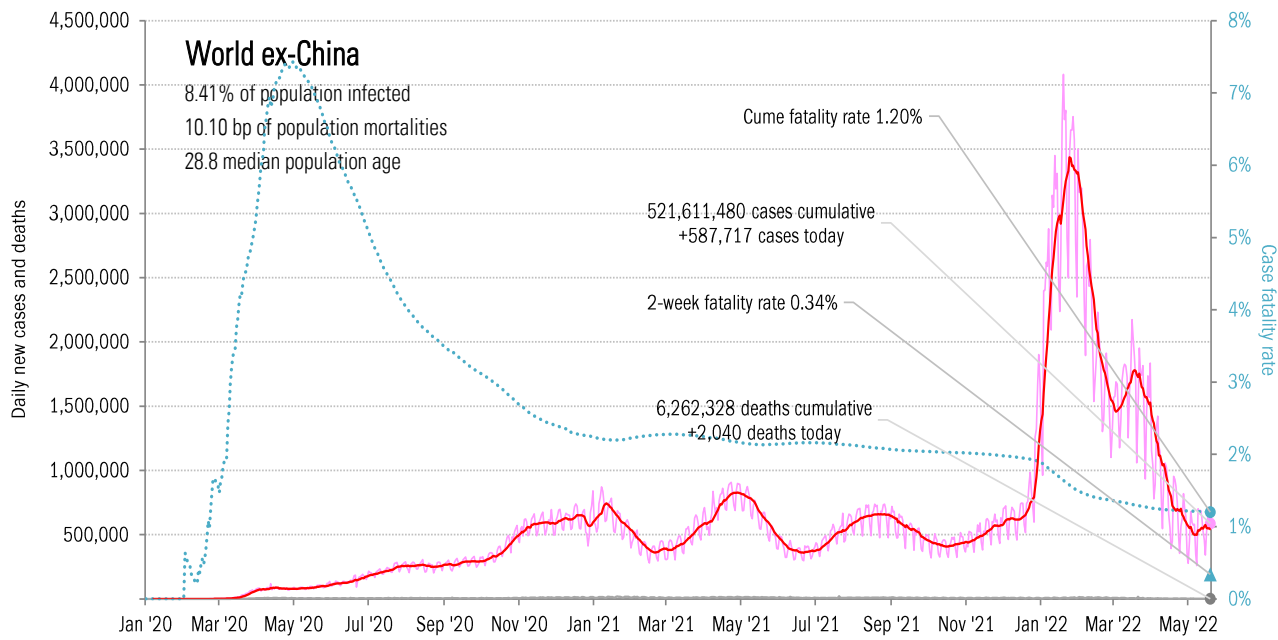
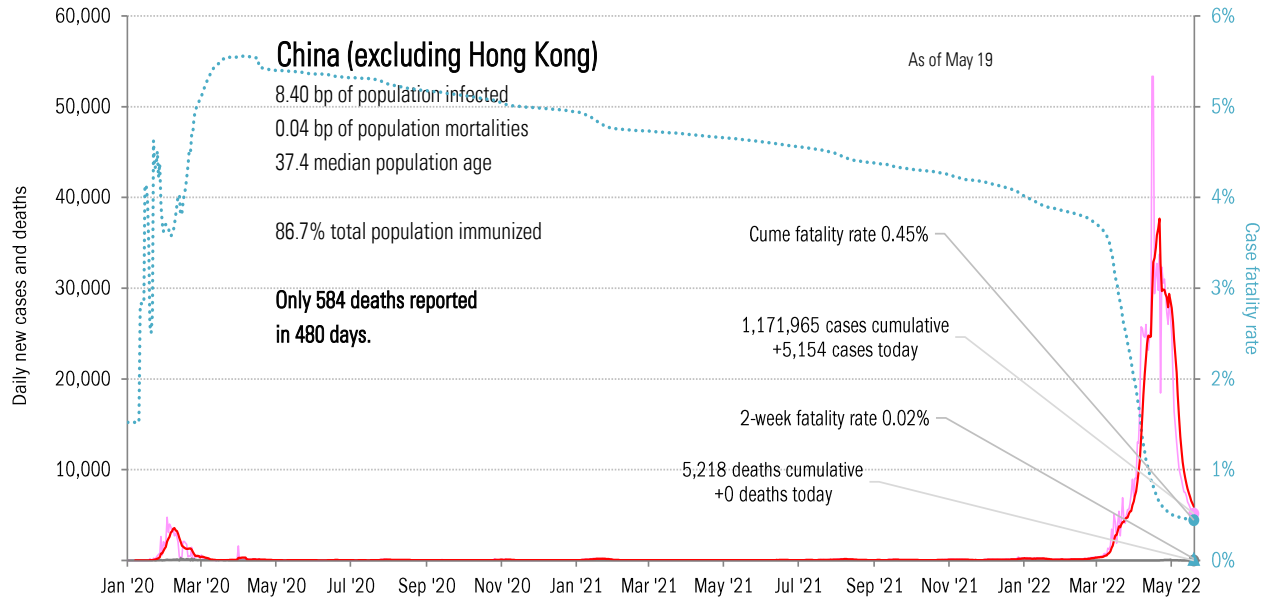
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else

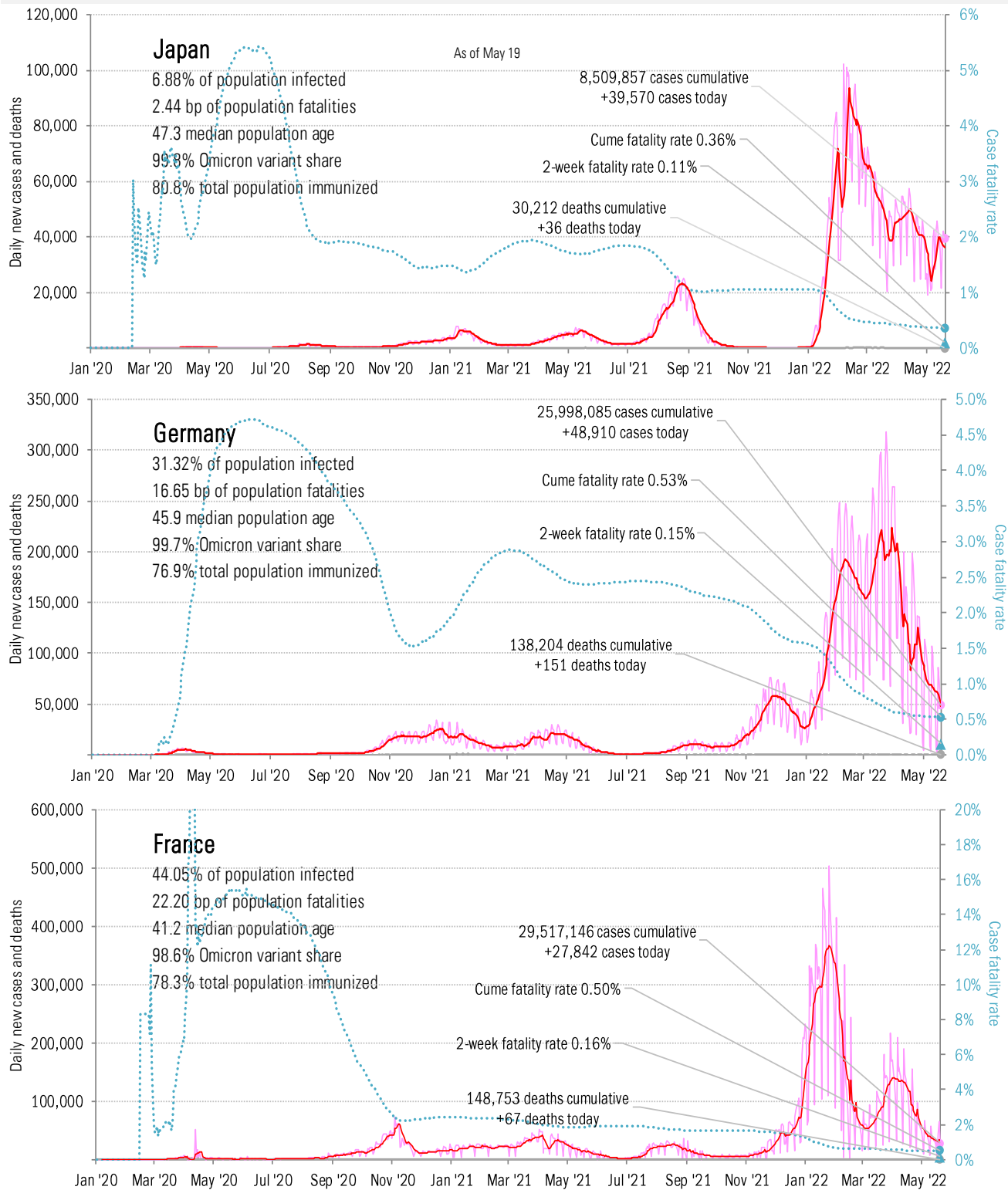
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies

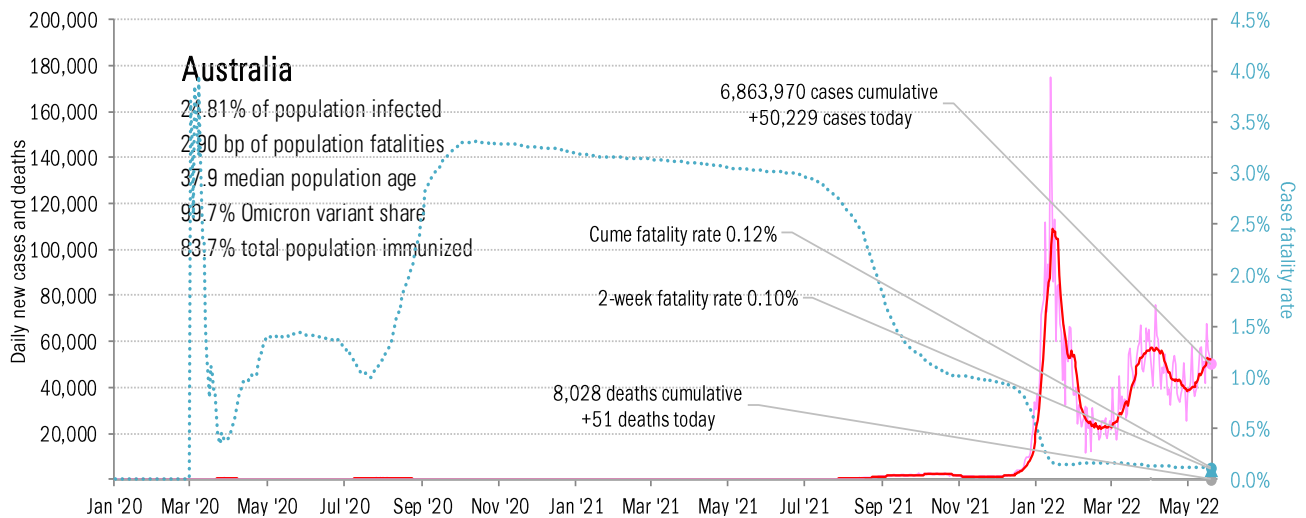
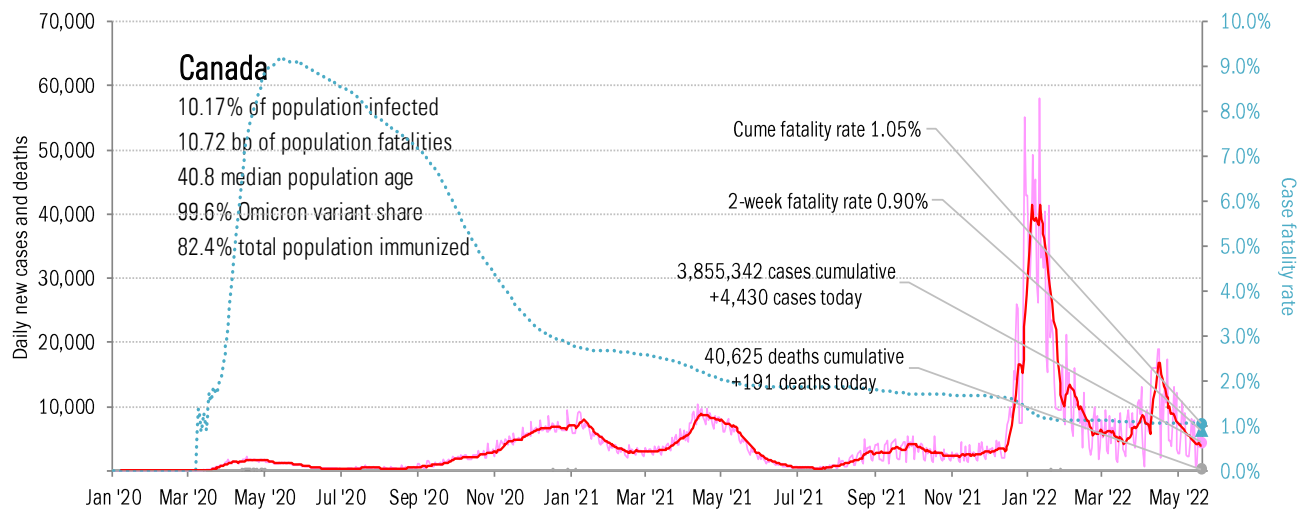
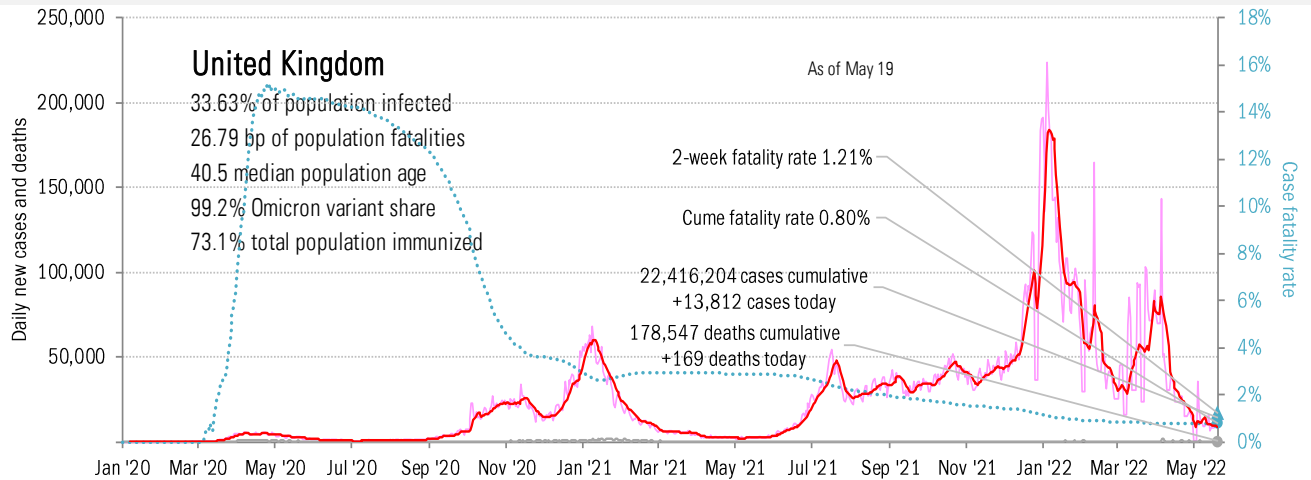
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere

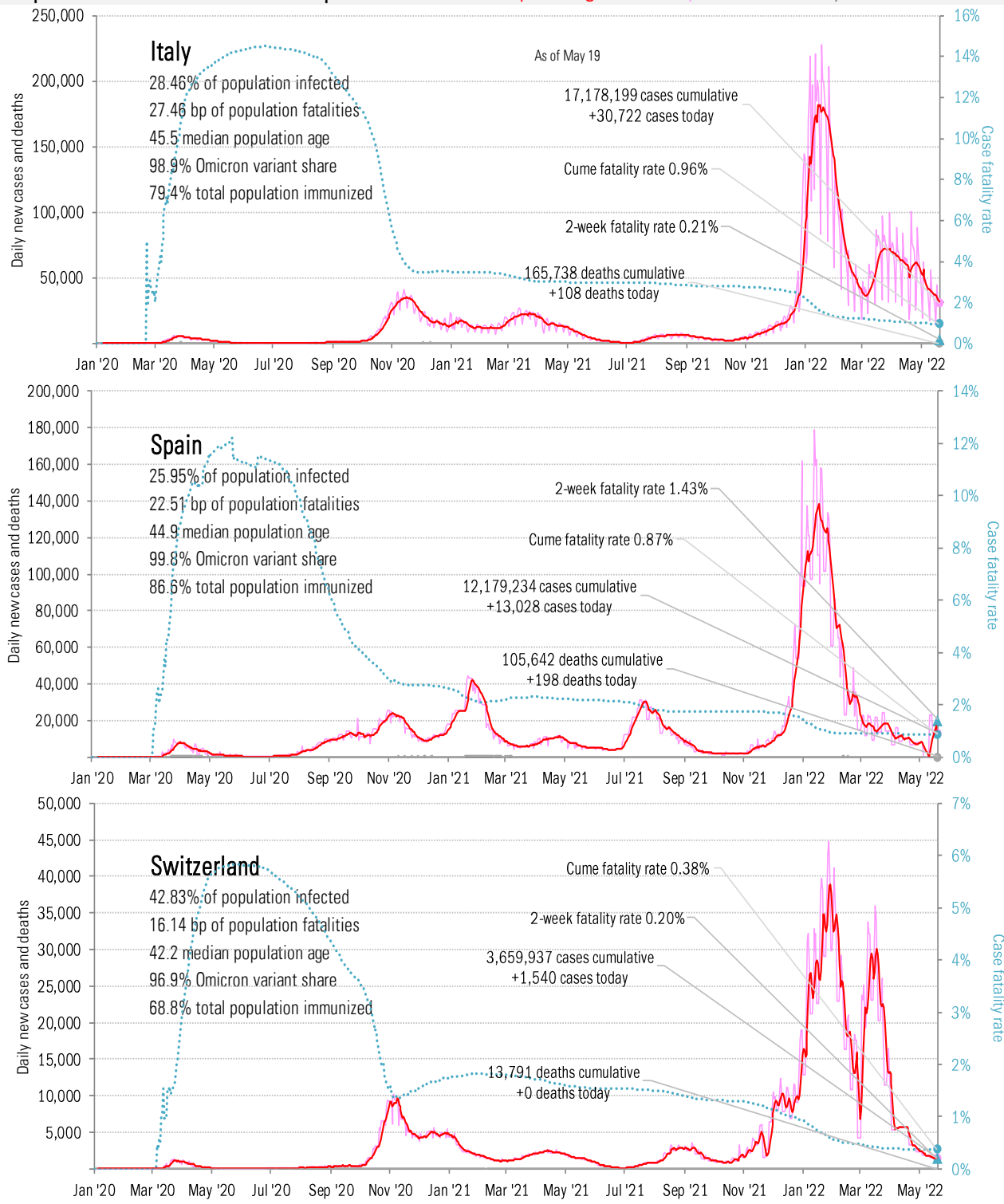
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe

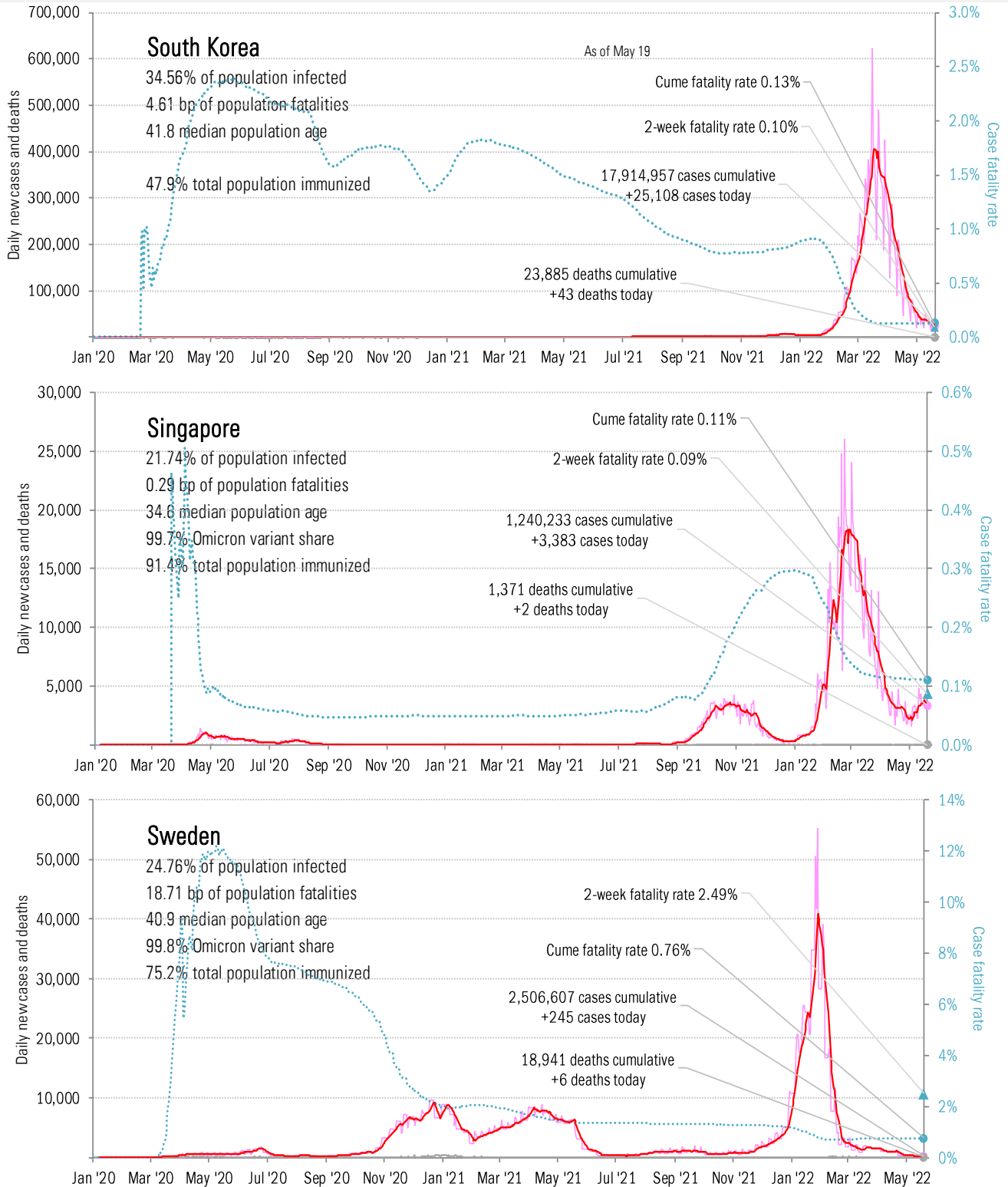
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots

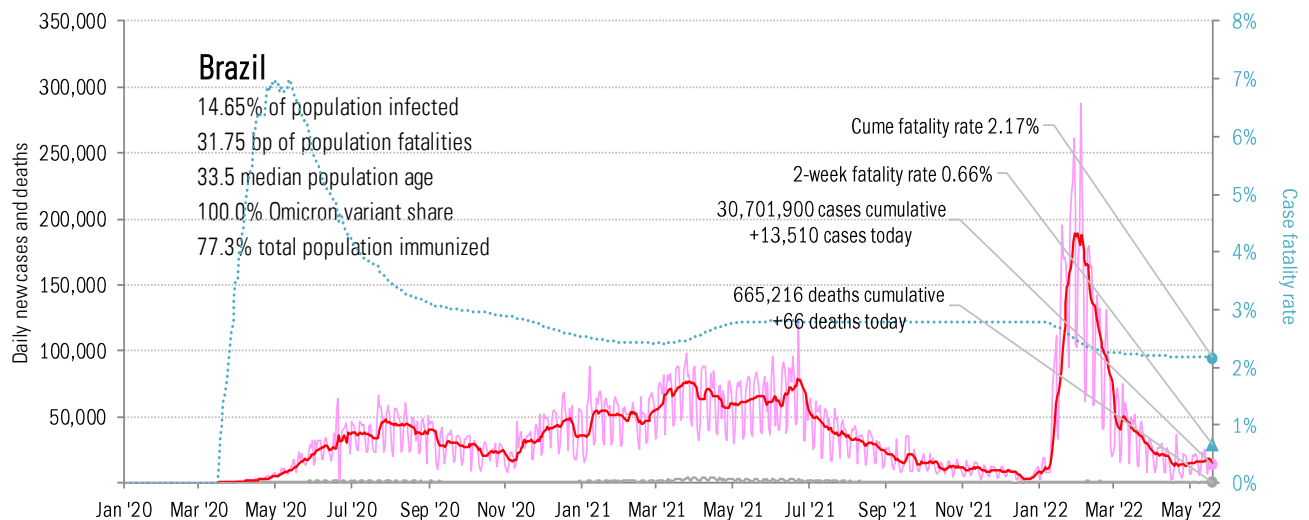
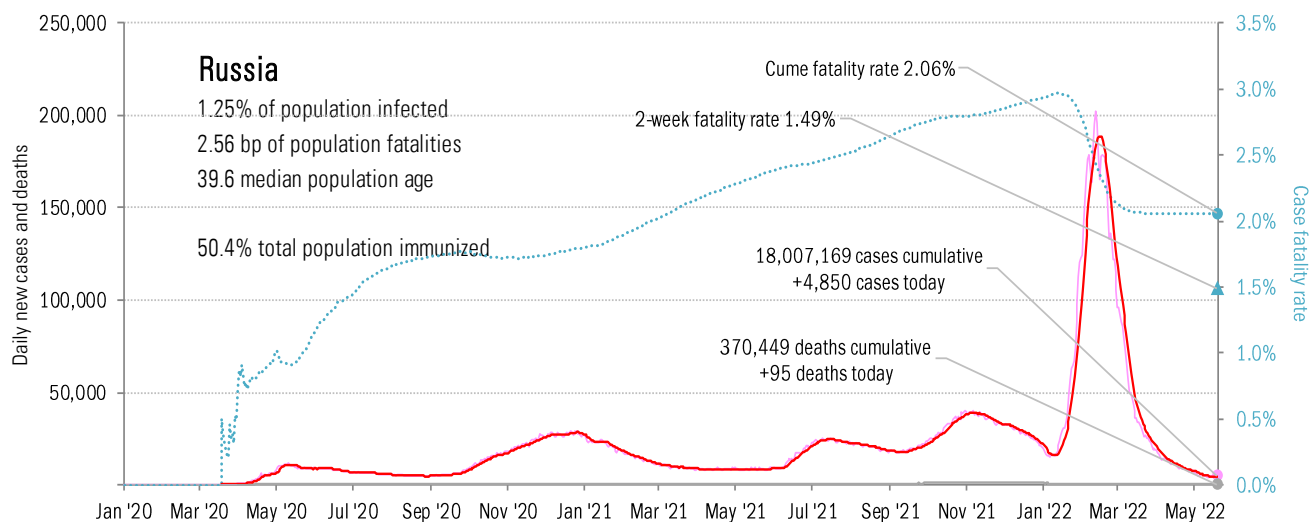
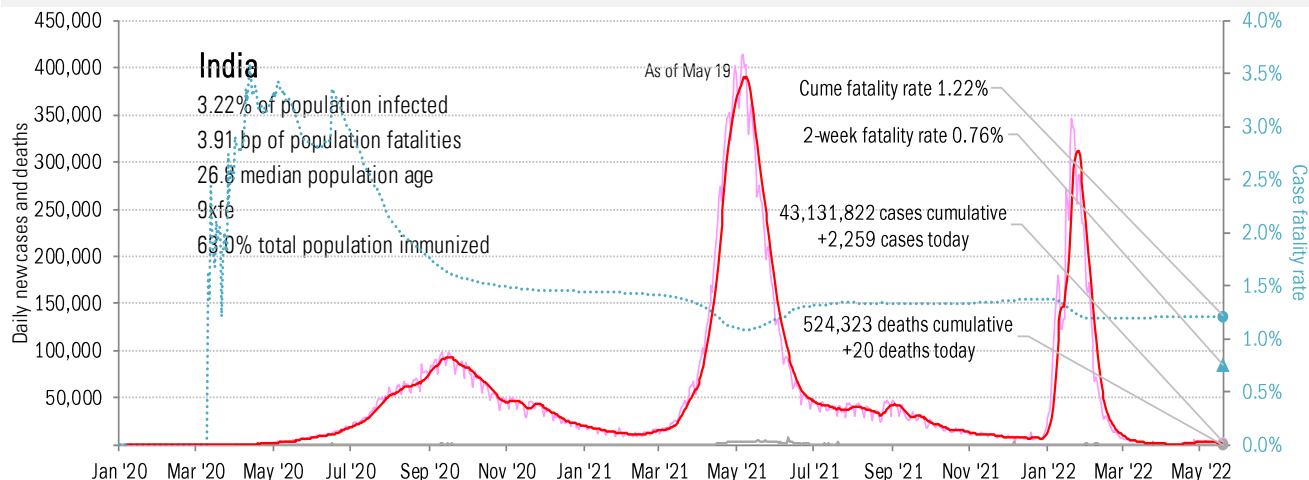
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China

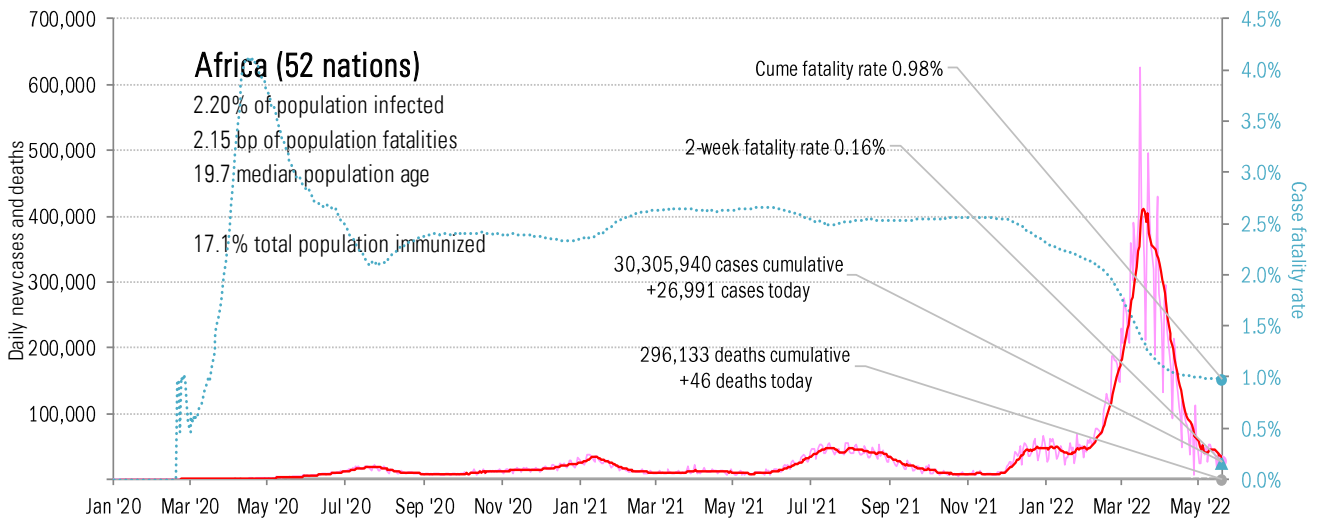
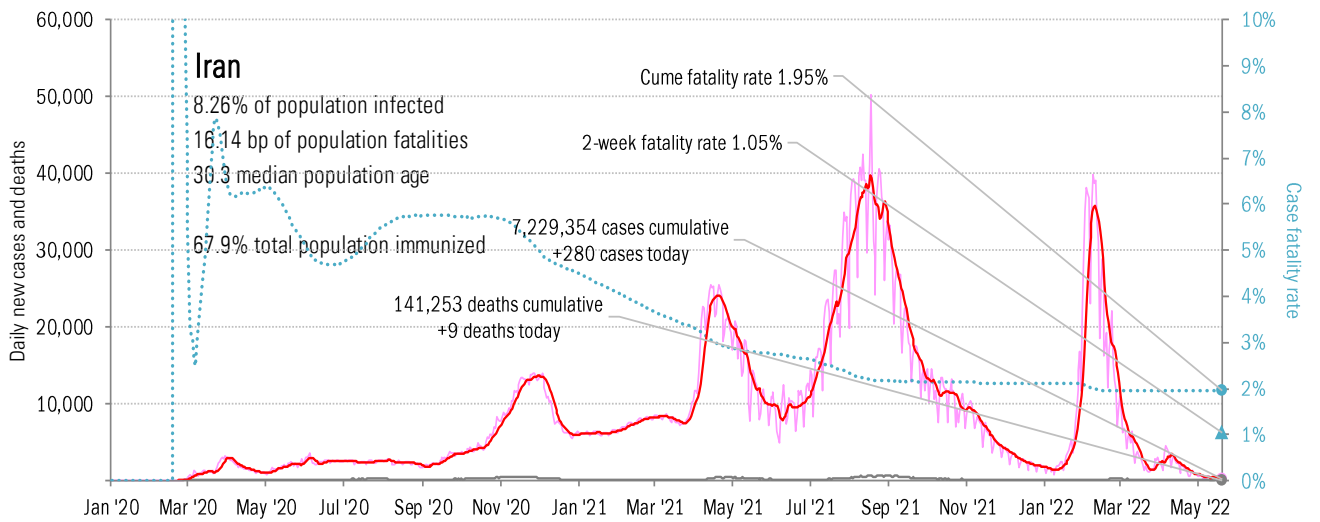
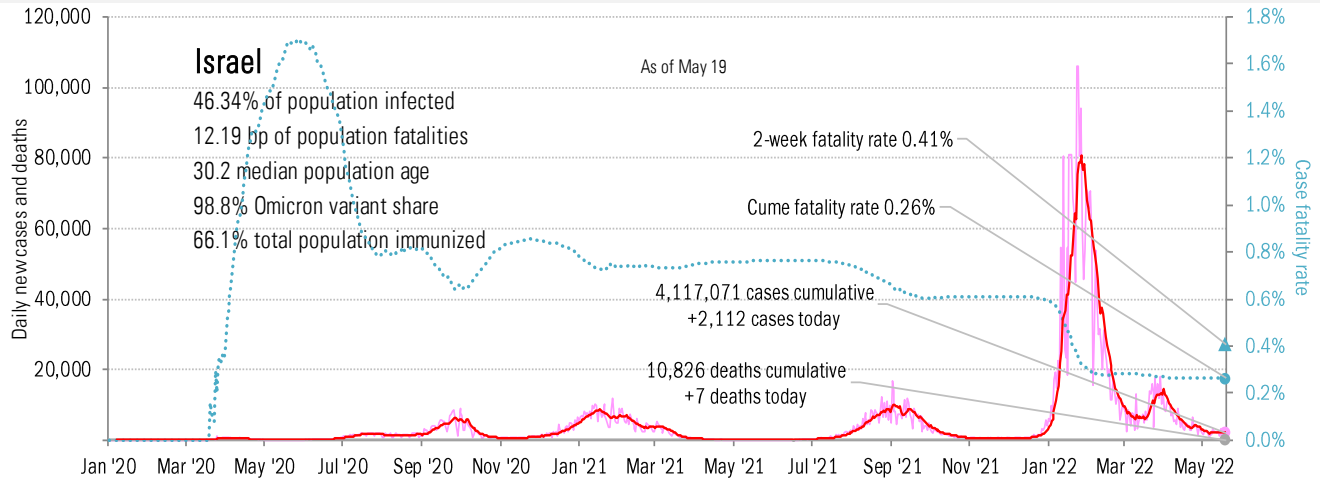
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa

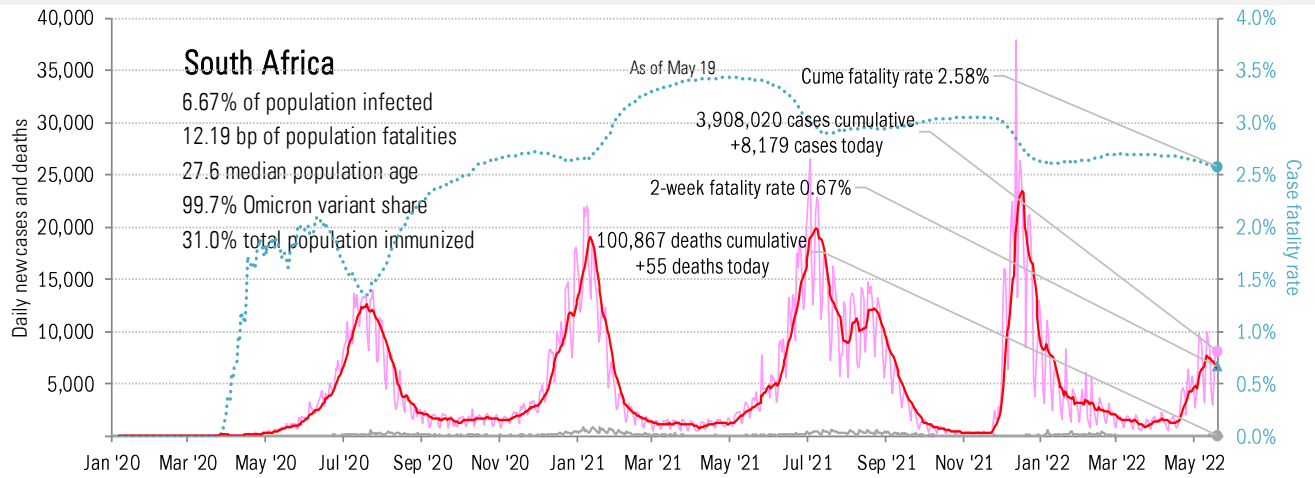
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations