Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

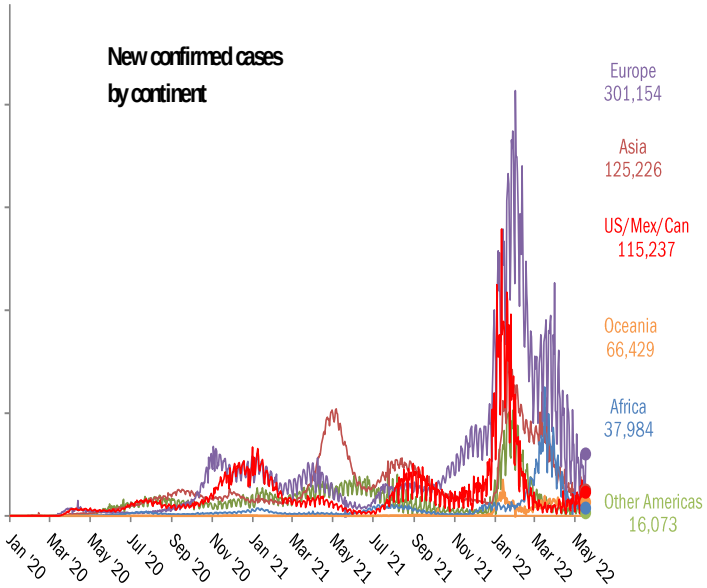
Wednesday, May 18, 2022

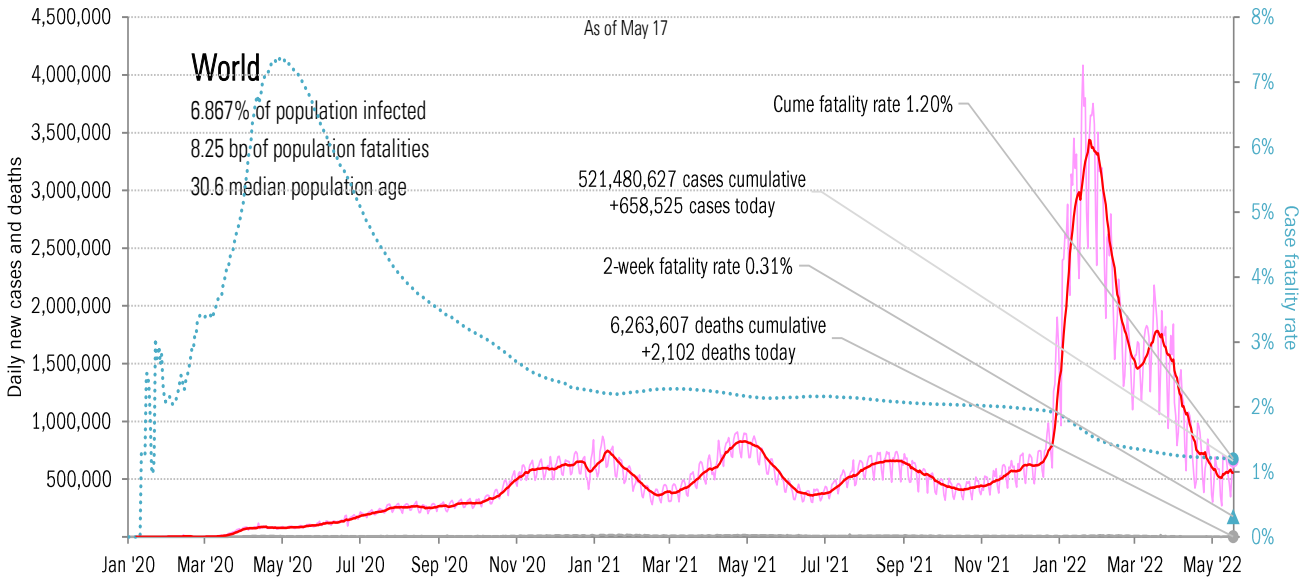
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	108,909	United States	522
Germany	72,051	Spain	198
Taiwan*	65,802	United Kingdom	185
Australia	56,461	Germany	174
Spain	52,112	Italy	148
Portugal	47,642	Russia	107
Italy	44,901	France	90
France	43,727	Portugal	82
Japan	36,795	Australia	54
Korea, South	31,315	Thailand	45
	559,715		1,605
World	658,525	World	2,102
Top ten	85%	Top ten	76%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

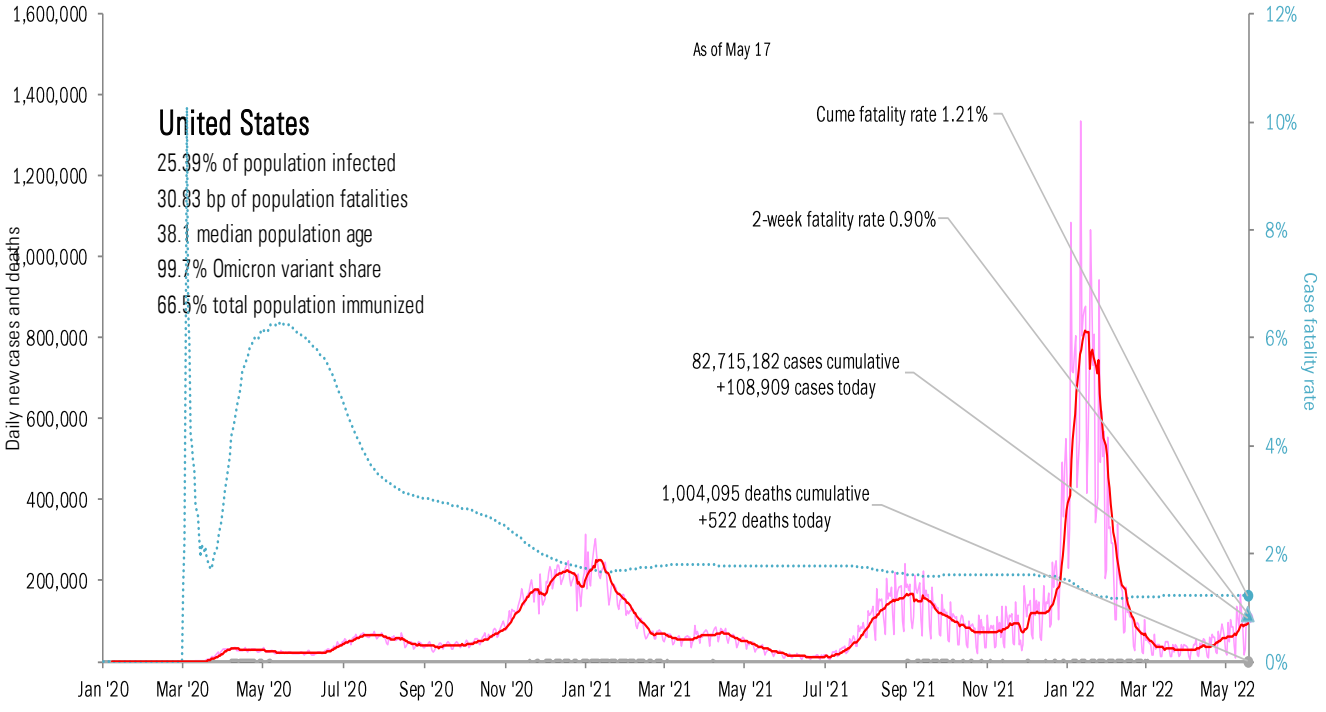
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	40,916	CA	88	CA	267	CA	9,398,581	CA	90,887	TX	492,057	RI	90%	NM	91%
NY	8,158	MA	32	SC	35	TX	6,878,675	TX	88,263	CA	430,354	GA	87%	RI	84%
SC	5,753	NY	29	NH	31	FL	6,015,516	FL	74,364	FL	420,890	MA	84%	MA	81%
MD	5,696	SC	22	FL	258	NY	5,323,334	NY	68,699	NY	257,763	MN	82%	AL	80%
IL	5,327	FL	18	OH	99	IL	3,231,524	PA	44,814	GA	208,468	WA	81%	NH	80%
NJ	4,619	MD	18	GA	61	PA	2,852,056	OH	38,550	OH	193,550	DC	81%	TX	79%
MN	4,581	NJ	18	KY	35	OH	2,724,041	GA	38,086	PA	179,528	PA	80%	VT	78%
MA	4,176	NM	15	WA	101	NC	2,691,805	IL	36,157	IL	160,700	NH	80%	NV	77%
FL	3,998	IL	14	IL	130	GA	2,530,918	MI	36,140	MI	144,664	KY	80%	WA	77%
VA	3,648	NH	13	OR	37	MI	2,472,596	NJ	33,571	KY	133,595	MI	79%	MI	77%
	86,872		267		1,054		44,119,046		549,531		2,621,569				
All states	108,909		522		2,950	All states	82,715,182		1,004,095		4,760,029	All states	70%		67%
Top ten	80%		51%		36%	Top ten	53%		55%		55%	Median	74%		71%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
IL	-11,529	FL	-150	MI	-84	AK	+10 bp
NY	-9,700	WA	-21	PA	-79	IN	+10 bp
CT	-8,716	CO	-7	MA	-48	MP	+10 bp
WA	-7,798	IN	-4	PR	-43	OK	+10 bp
MA	-7,586	NY	-4	NJ	-41	VA	+10 bp



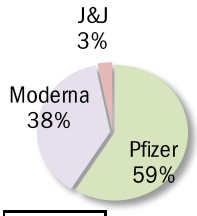
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	597,725,813				+0.254 million
Boosters	44,642,325				+0.018 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	265,751,673	80%	227,000,460	68%	+0.032 million
Age 12 to 17	17,745,287	70%	15,187,111	60%	+0.002 million
Age 18 to 64	178,623,675	88%	151,956,208	75%	+0.016 million
Age 65 and over	58,993,360	100%	51,463,390	94%	+0.010 million

Immunity	Full	Partial
US	66.5%	77.7%
UK	73.1%	78.2%
France	78.3%	80.7%
Spain	86.6%	88.2%
Germany	76.8%	76.9%
Italy	79.4%	84.1%
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	62.9%	72.4%
Brazil	77.2%	85.6%
China	86.7%	89.1%

Global data differs due to sources, timing



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

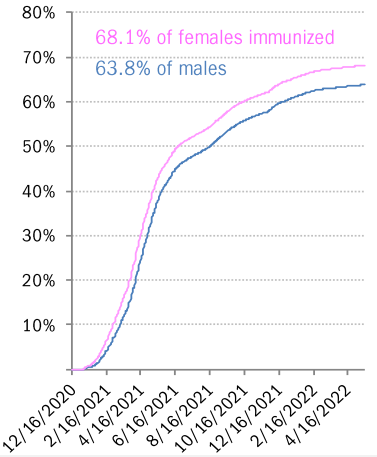
"Immunity" = two doses

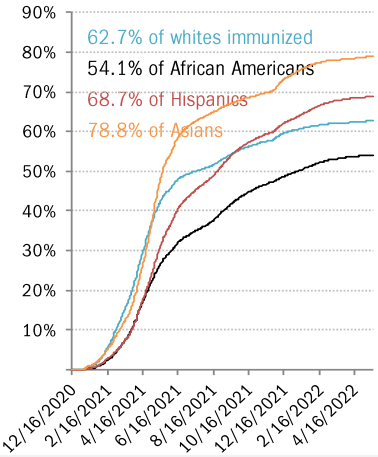
Best
Middle
Worst

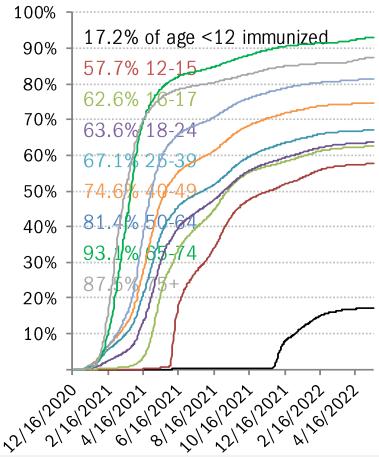
As of May 17

AK												
69.9%					WI						ME	
62.6%					72.0%						90.9%	
					65.7%						79.9%	
	WA	ID	MT	ND	MN	IL	MI		NY	VT	NH	
	81.0%	61.8%	65.4%	65.7%	75.2%	76.8%	67.1%		90.4%	93.8%	88.6%	
	72.8%	54.7%	56.9%	55.7%	69.3%	69.1%	60.3%		77.2%	81.4%	70.8%	
	OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA		
	78.1%	75.5%	58.1%	76.9%	68.1%	61.6%	63.7%	85.2%	90.7%	95.0%		
	69.8%	61.0%	51.0%	61.8%	62.1%	55.0%	58.9%	68.8%	75.9%	79.3%		
	CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI	
	82.4%	72.2%	79.6%	70.4%	66.3%	66.3%	65.1%	86.0%	86.7%	95.0%	95.0%	
	72.4%	64.4%	70.4%	63.7%	56.2%	57.5%	57.7%	73.5%	75.9%	79.5%	82.9%	
		AZ	NM	KS	AR	TN	NC	SC	DC	DE		
		73.3%	88.1%	74.7%	66.9%	62.3%	84.6%	67.9%	95.0%	83.4%		
		61.8%	71.4%	61.7%	54.6%	54.6%	61.6%	57.2%	78.0%	69.4%		
				OK	LA	MS	AL	GA				
				71.3%	61.1%	59.7%	62.9%	65.6%				
HI				57.5%	53.6%	52.0%	51.3%	54.9%				
87.6%				TX					FL		PR	
78.4%				73.5%					79.6%		95.0%	
				61.7%					67.2%		83.2%	

The demographics of US vaccination



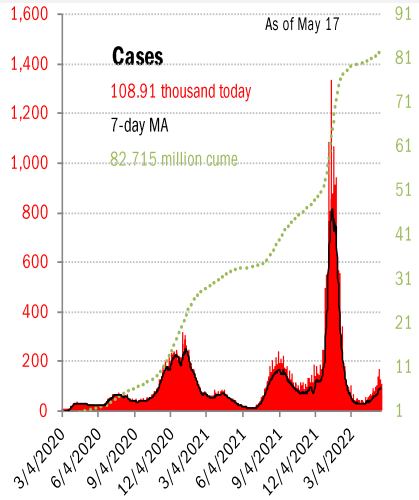


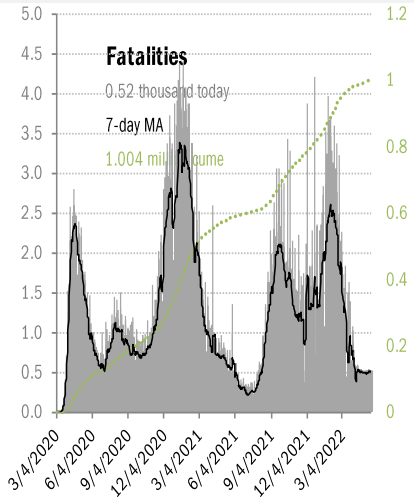


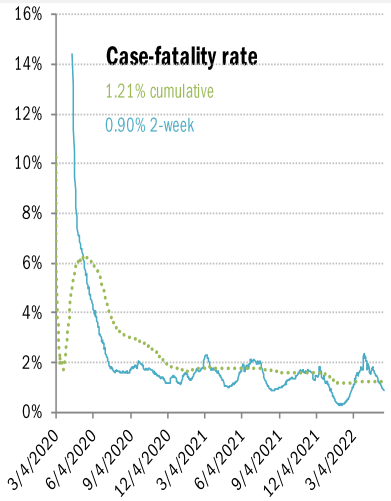
Source: CDC, CDC, Our World in Data, TrendMacro calculations

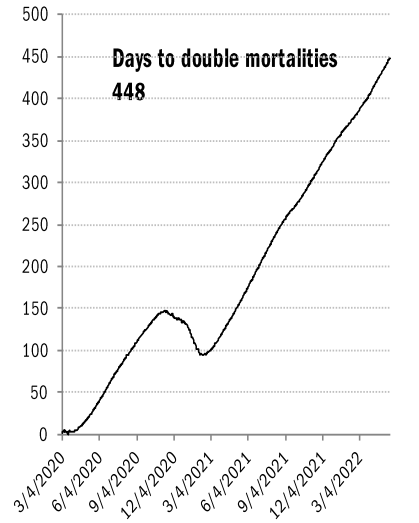
US deep-dive

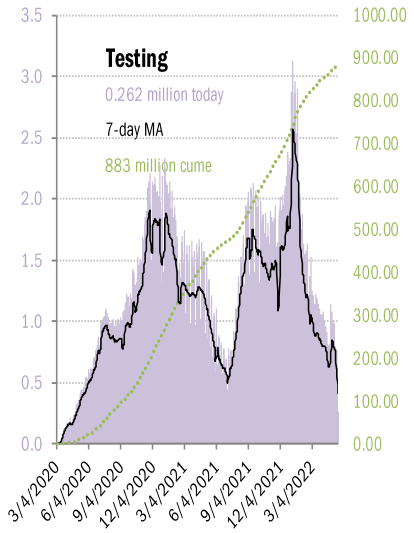
National and state-by-state data do not line up because of different sources

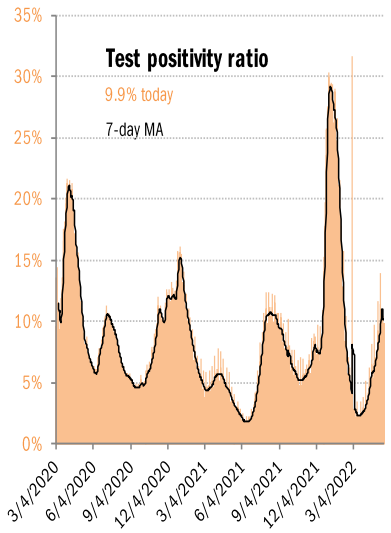


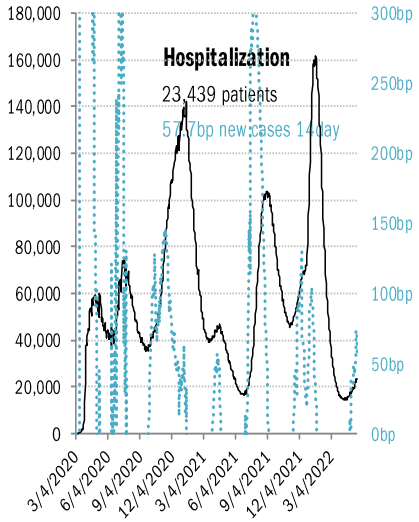


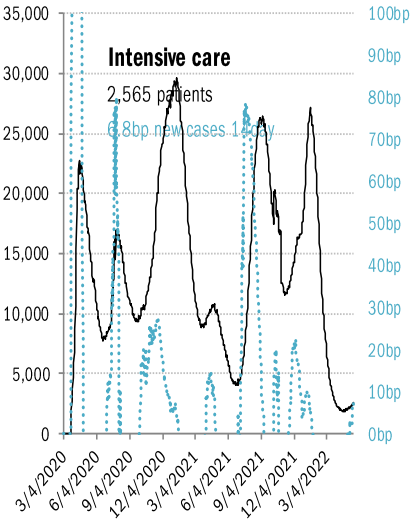


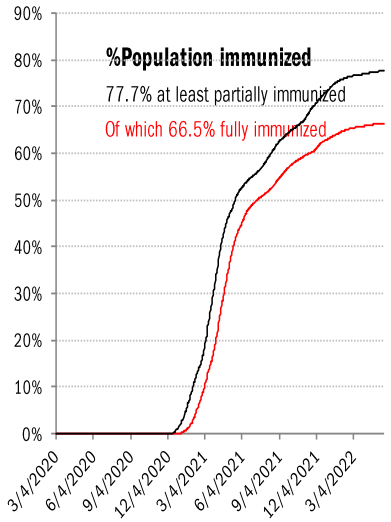












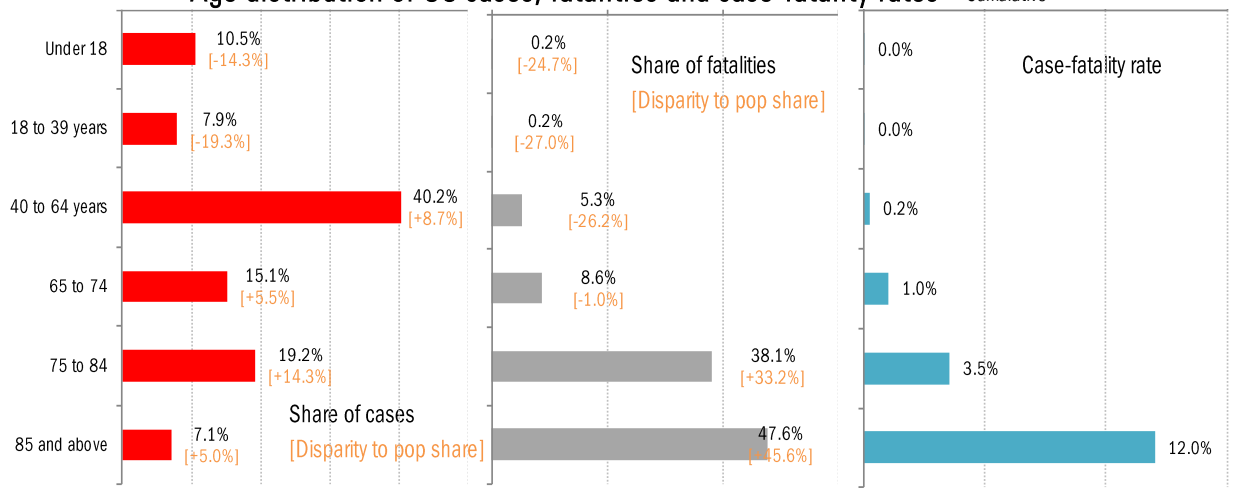
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

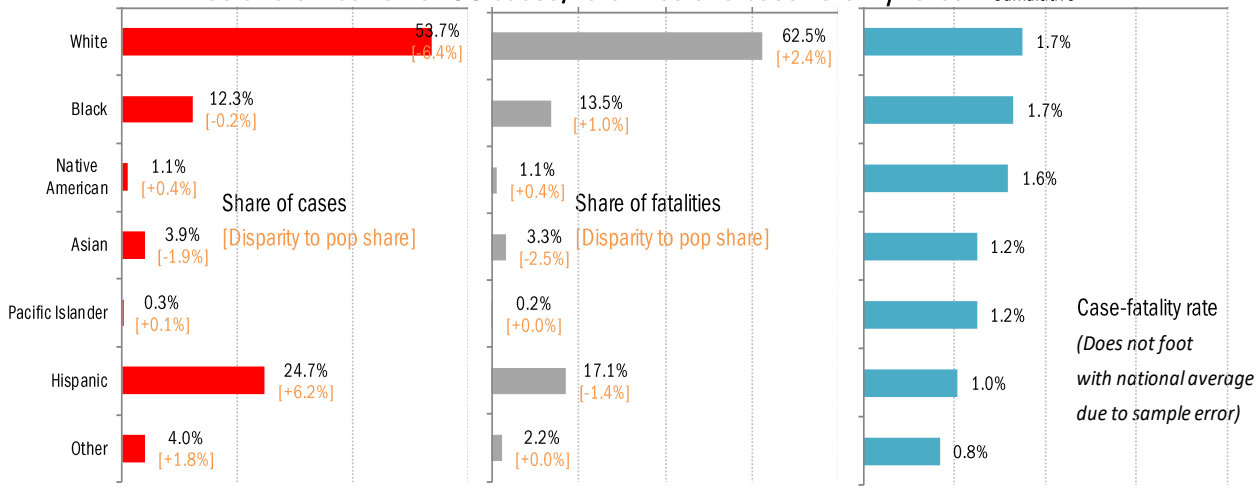
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



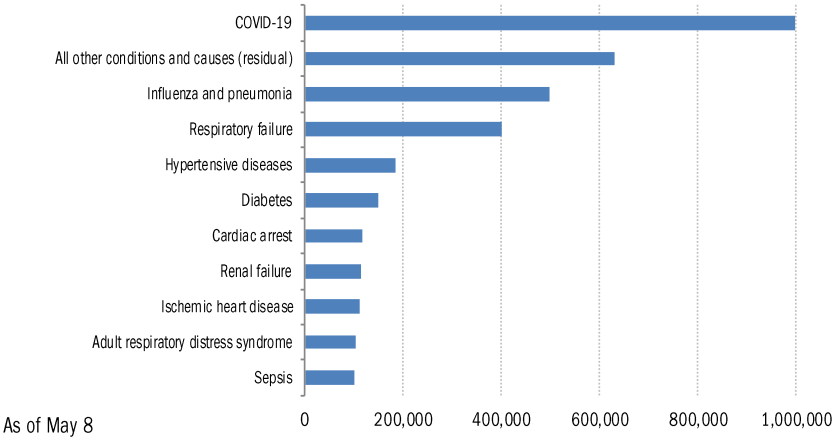
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of May 8

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

How big is the latest U.S. coronavirus wave? No one really knows.
Fenit Nirappil, Katie Shepherd and Dan Keating
Washington Post
May 17, 2022

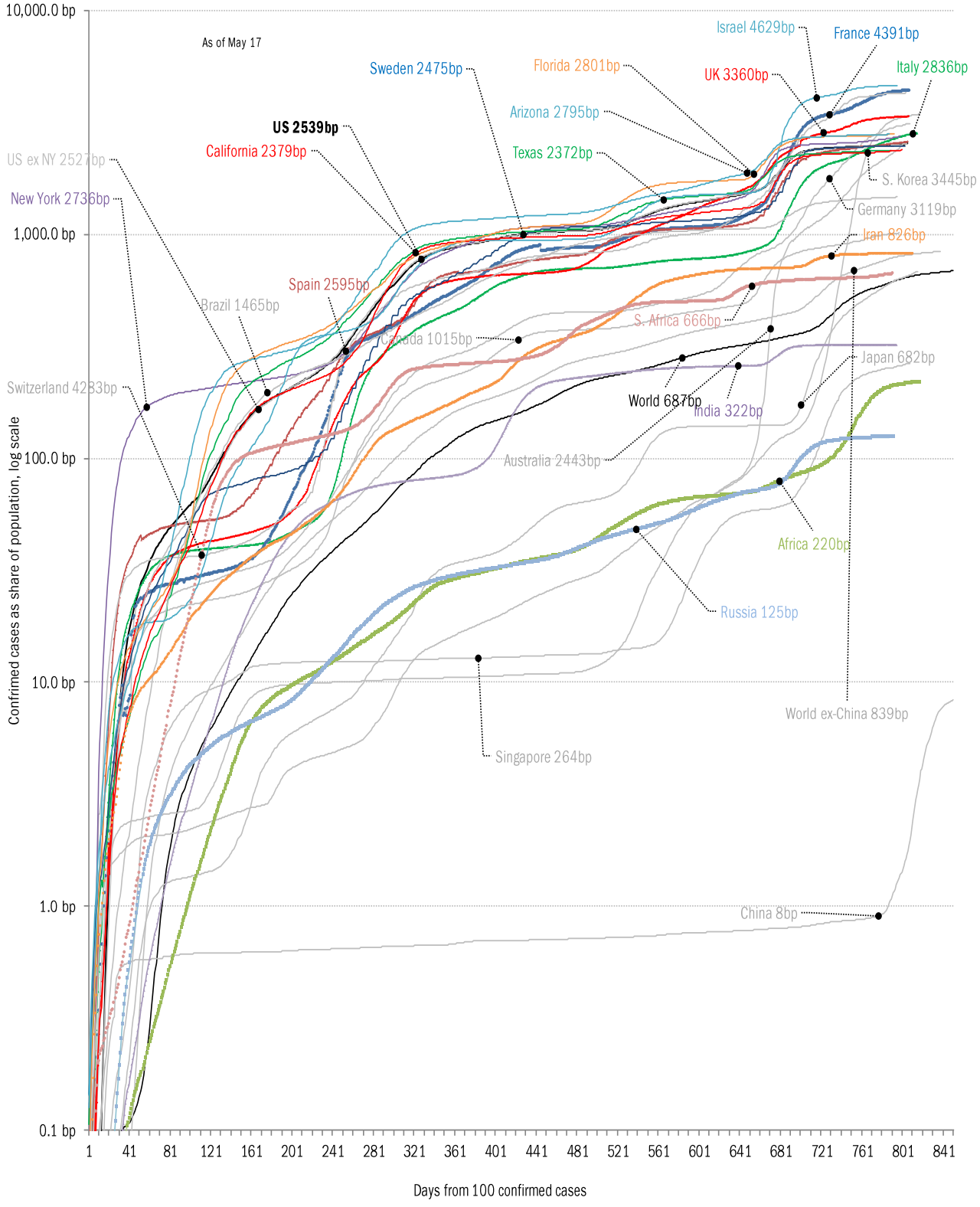
Study Finds 'Positive Correlation' Between Higher Mask Usage And COVID-19 Deaths.
Natalie Winters
National Pulse
May 16, 2022

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

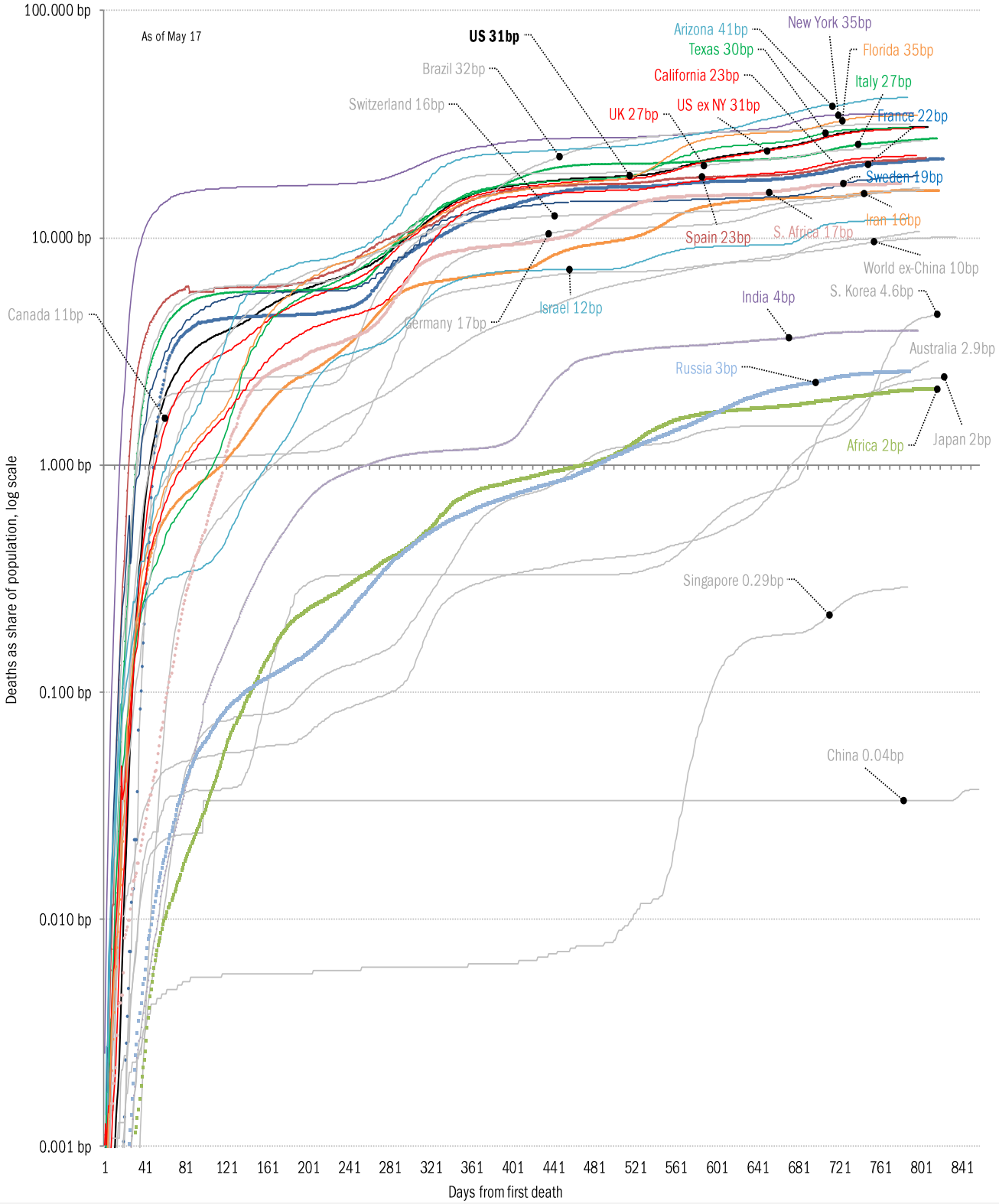
Share of infected population from first day with 100 confirmed cases, log scale



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

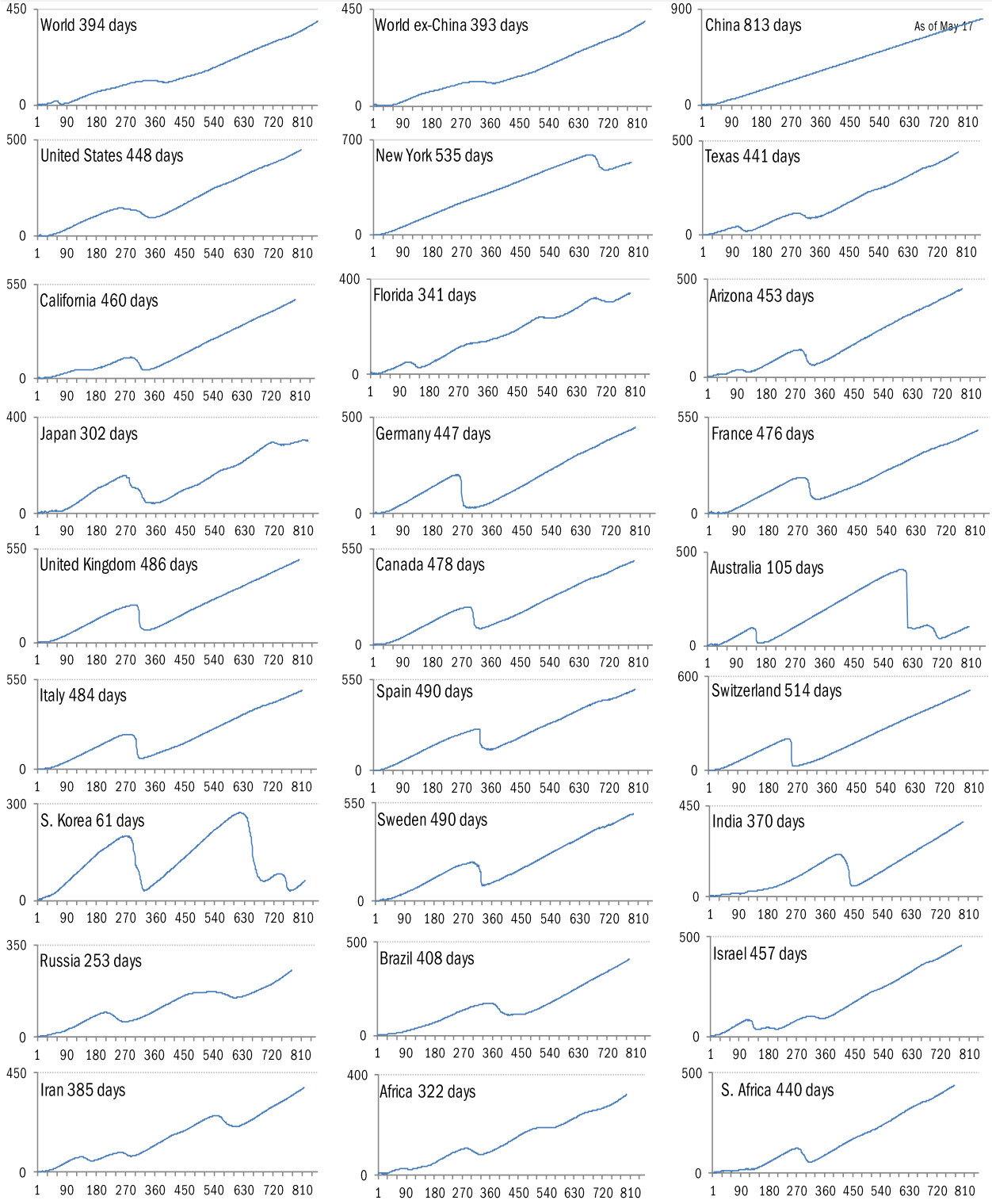


Source: Johns Hopkins, TrendMacro calculations

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

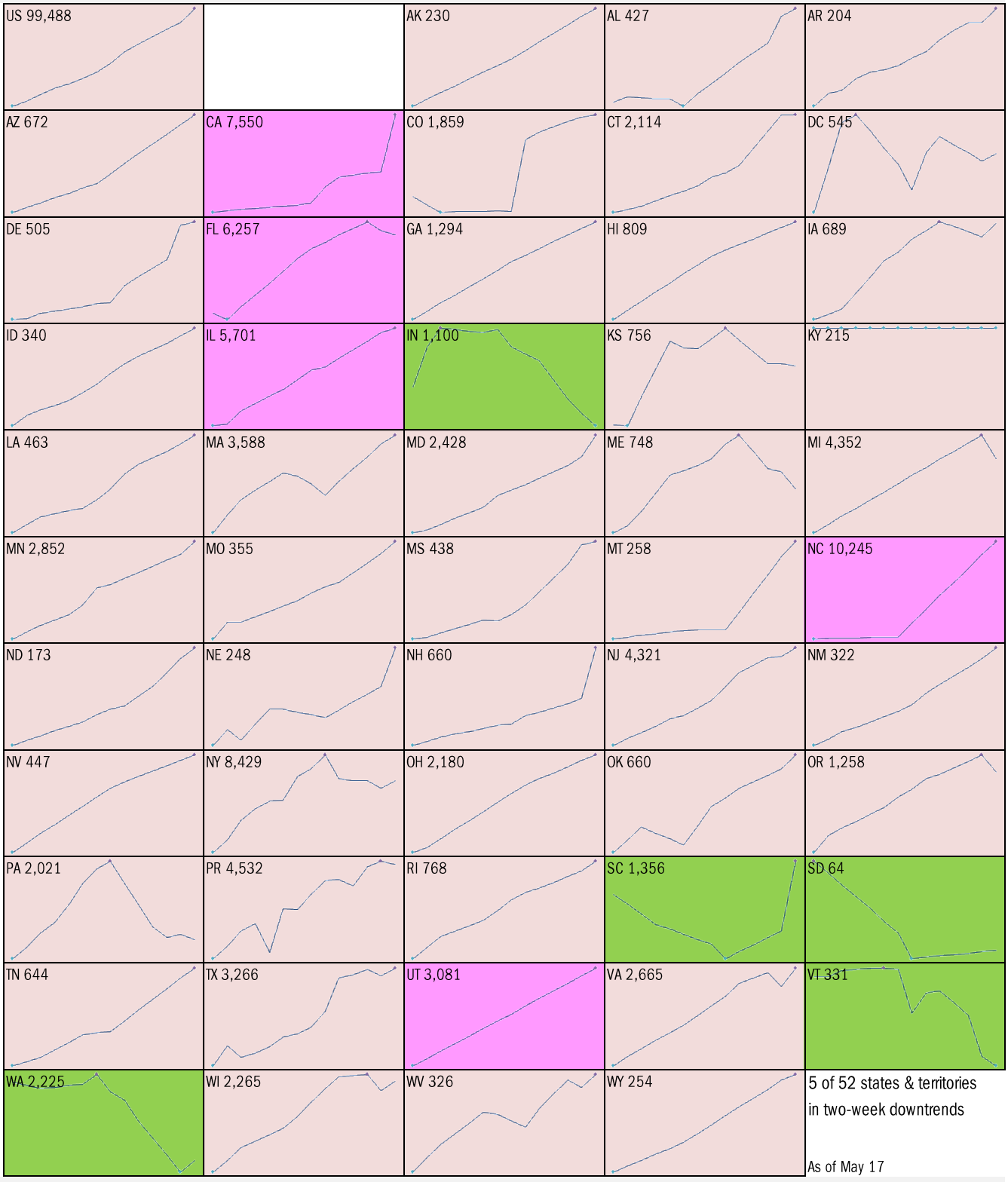


Source: Johns Hopkins, TrendMacro calculations

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**

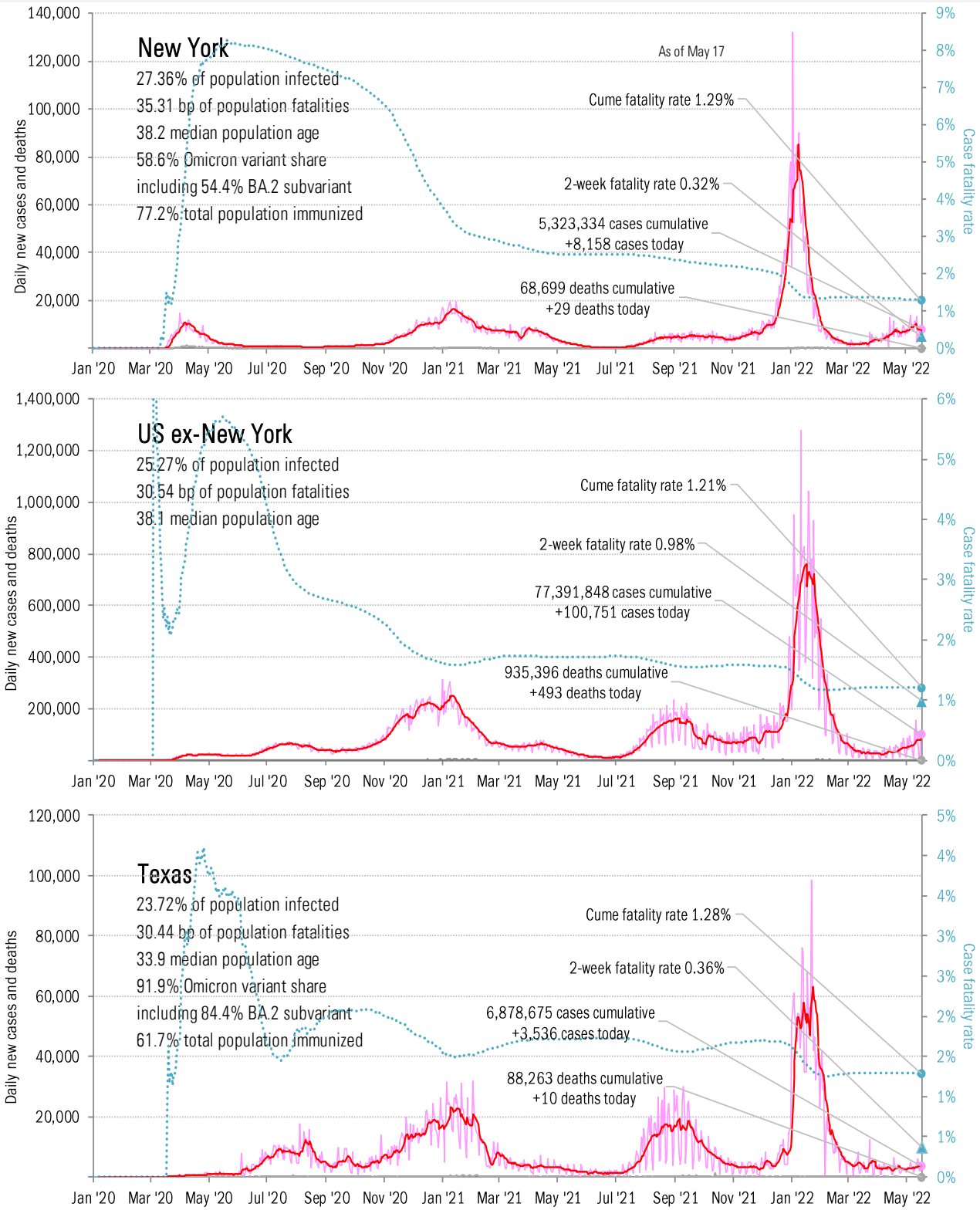
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

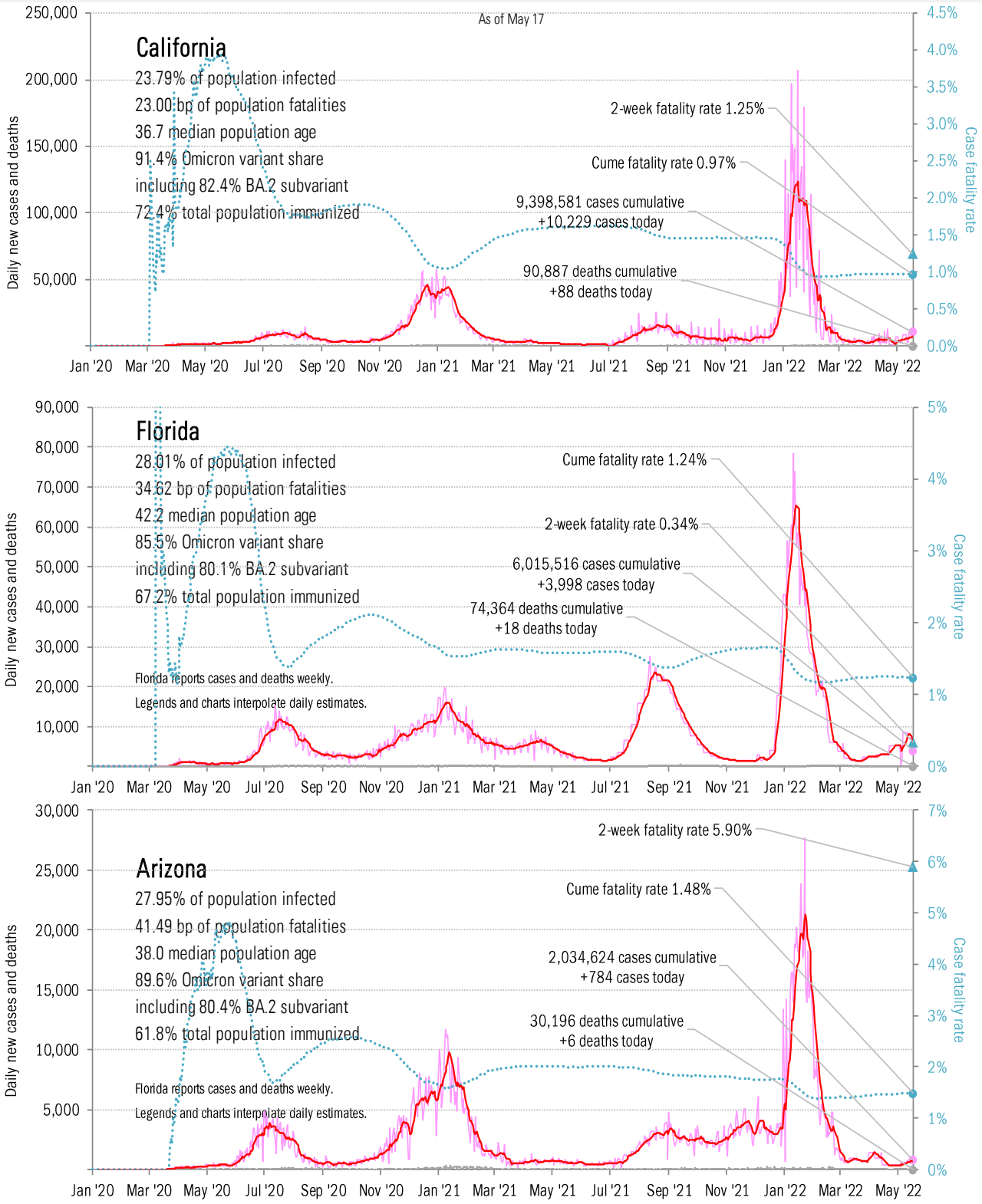
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

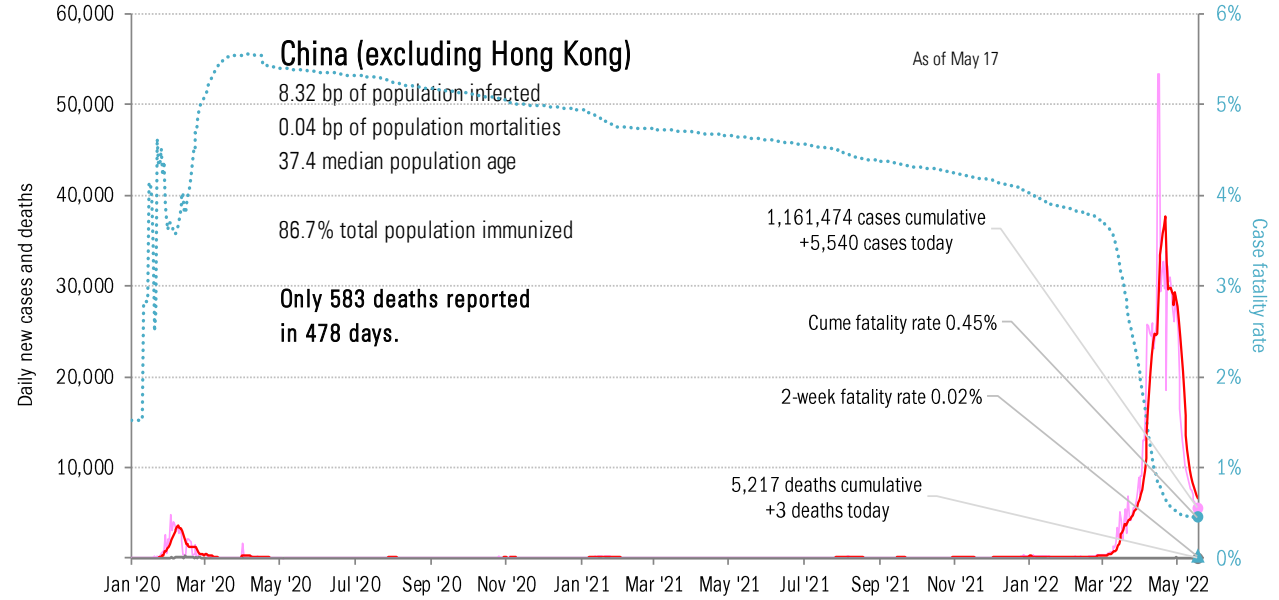
Cases: 7-day average and daily Deaths: Daily

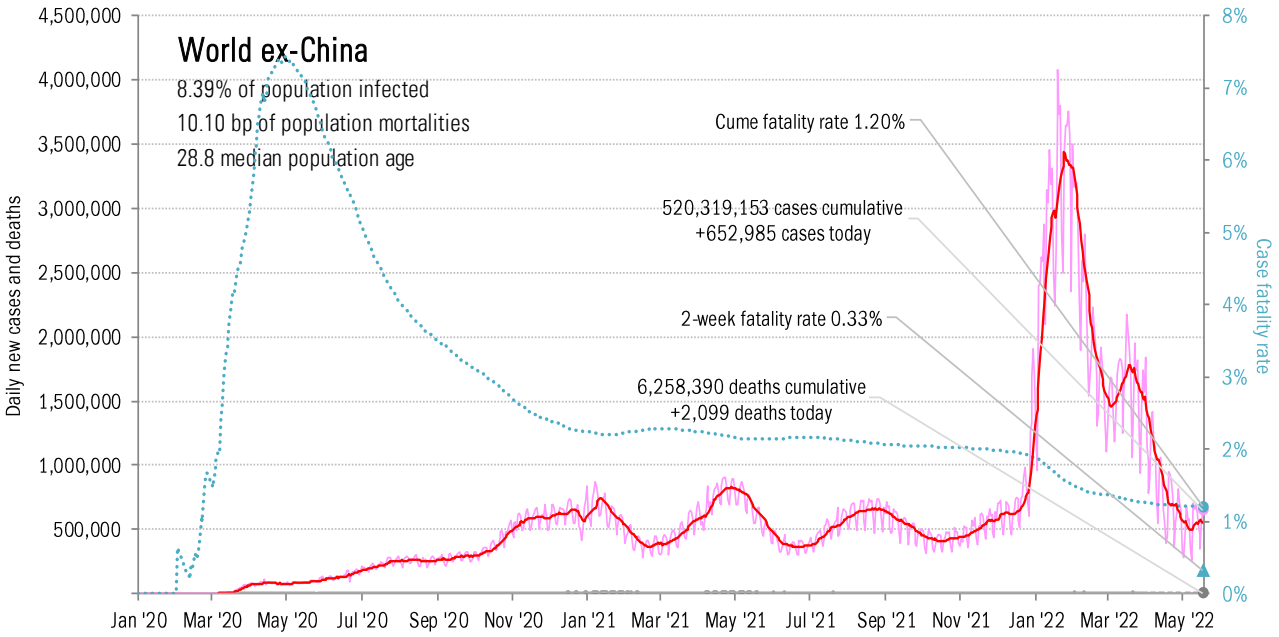


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

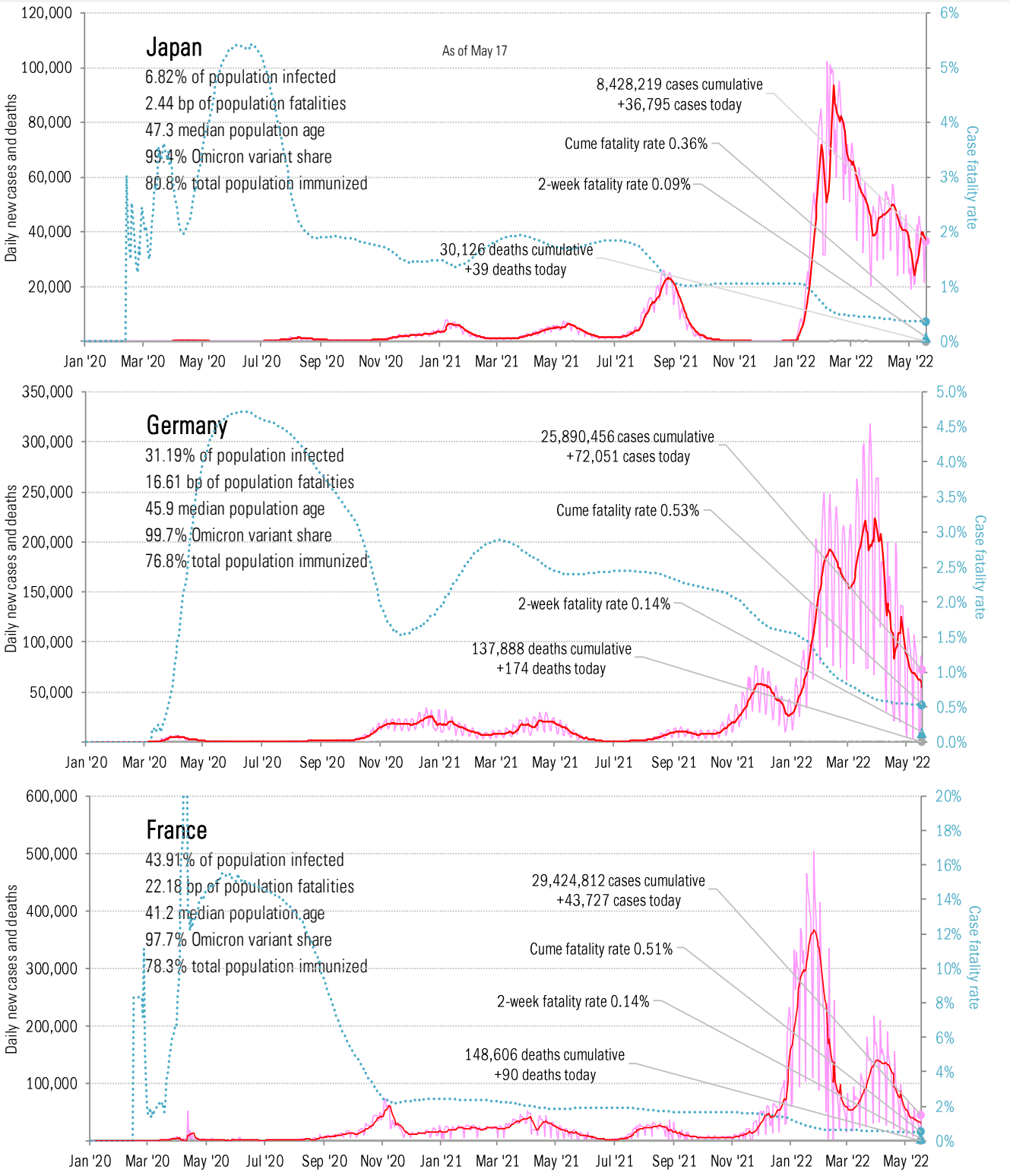




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

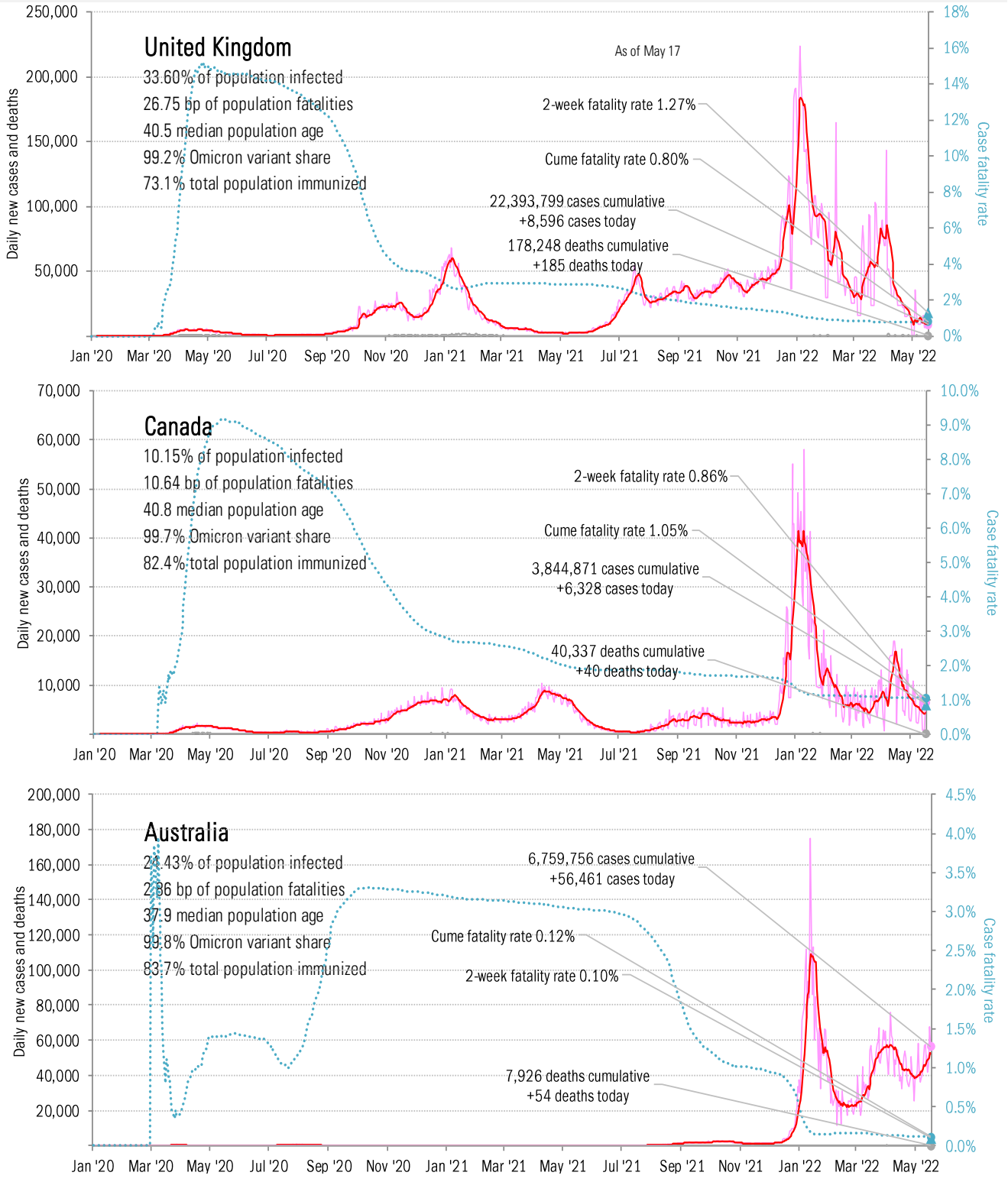
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

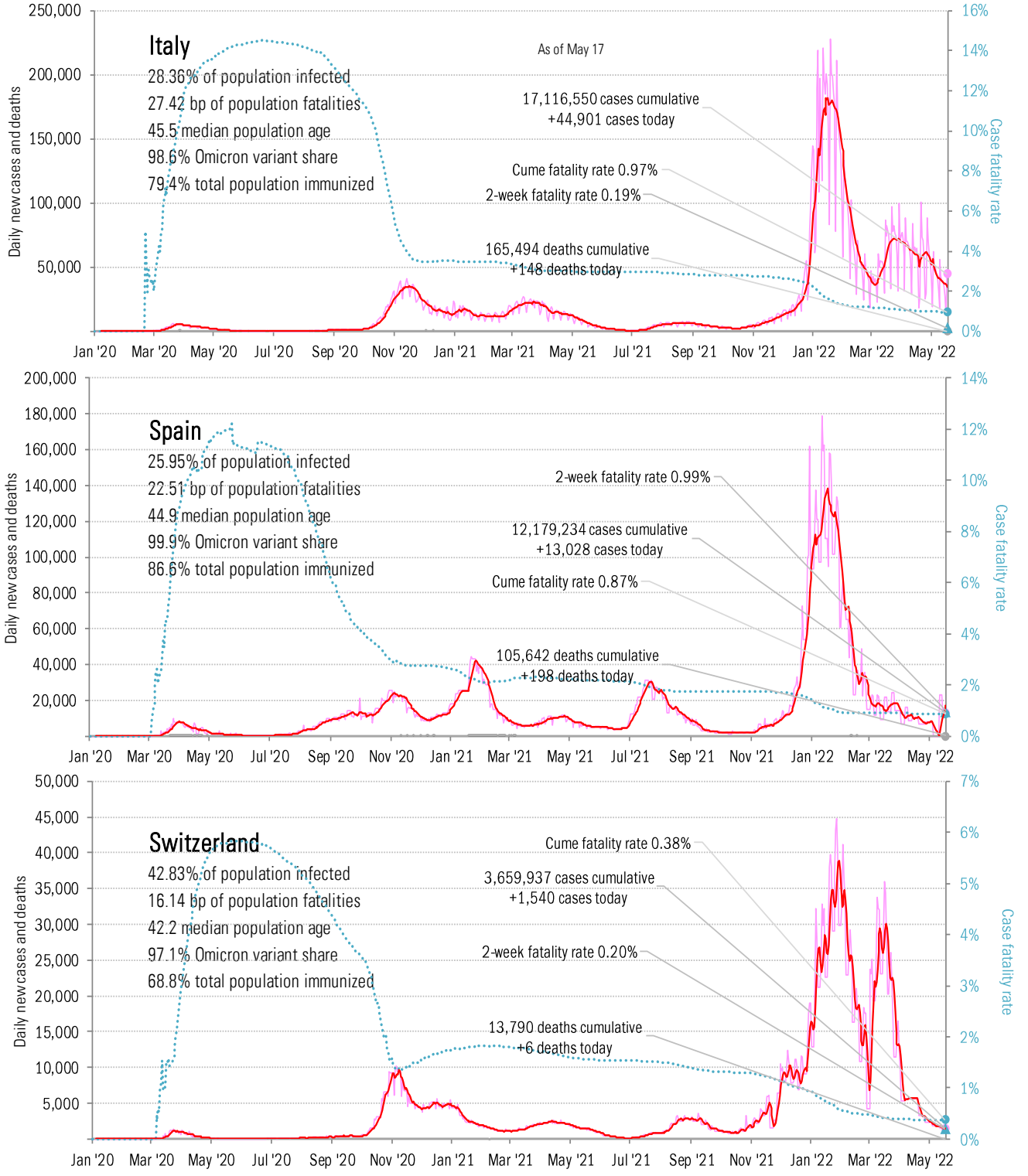
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

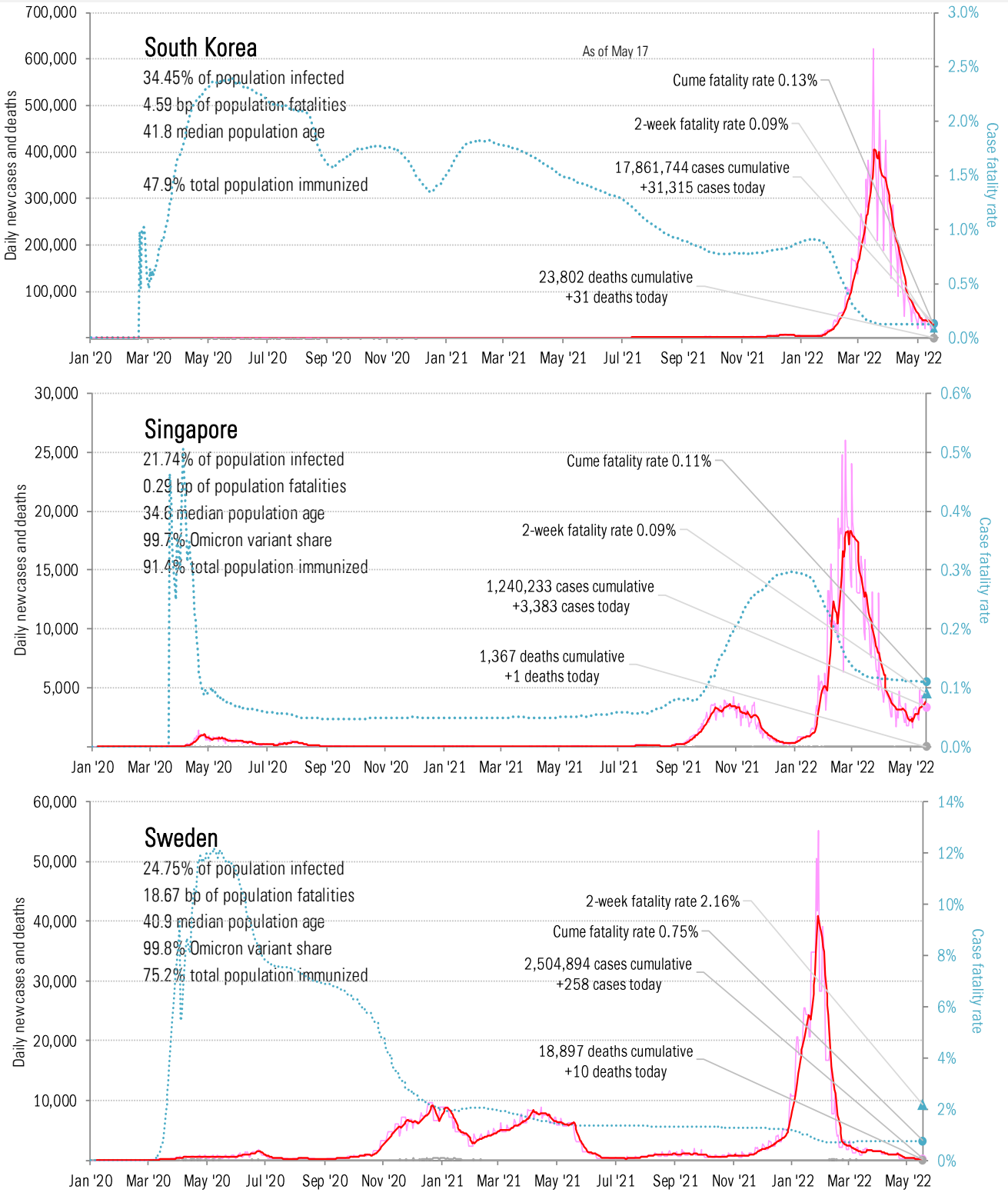
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

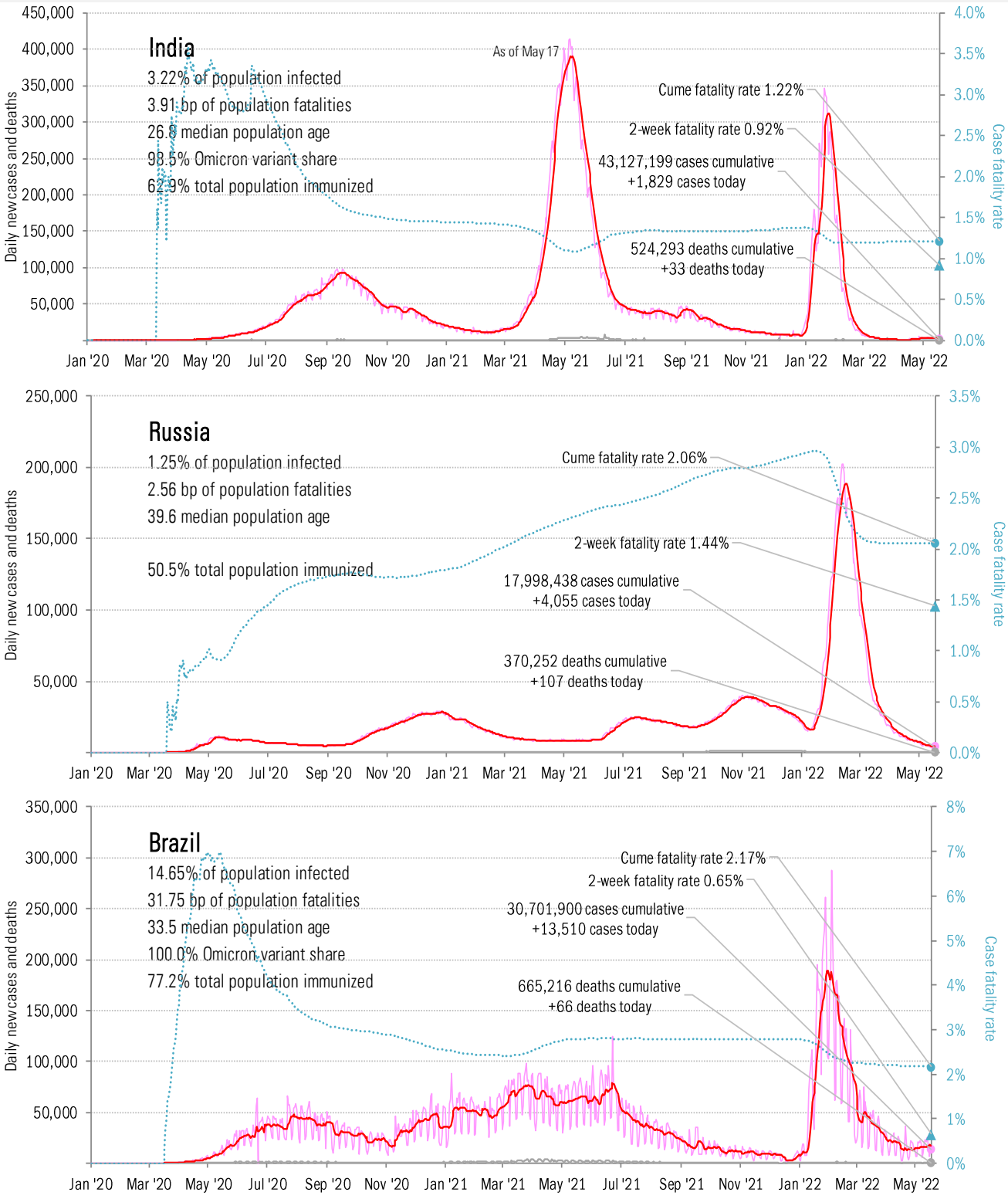
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

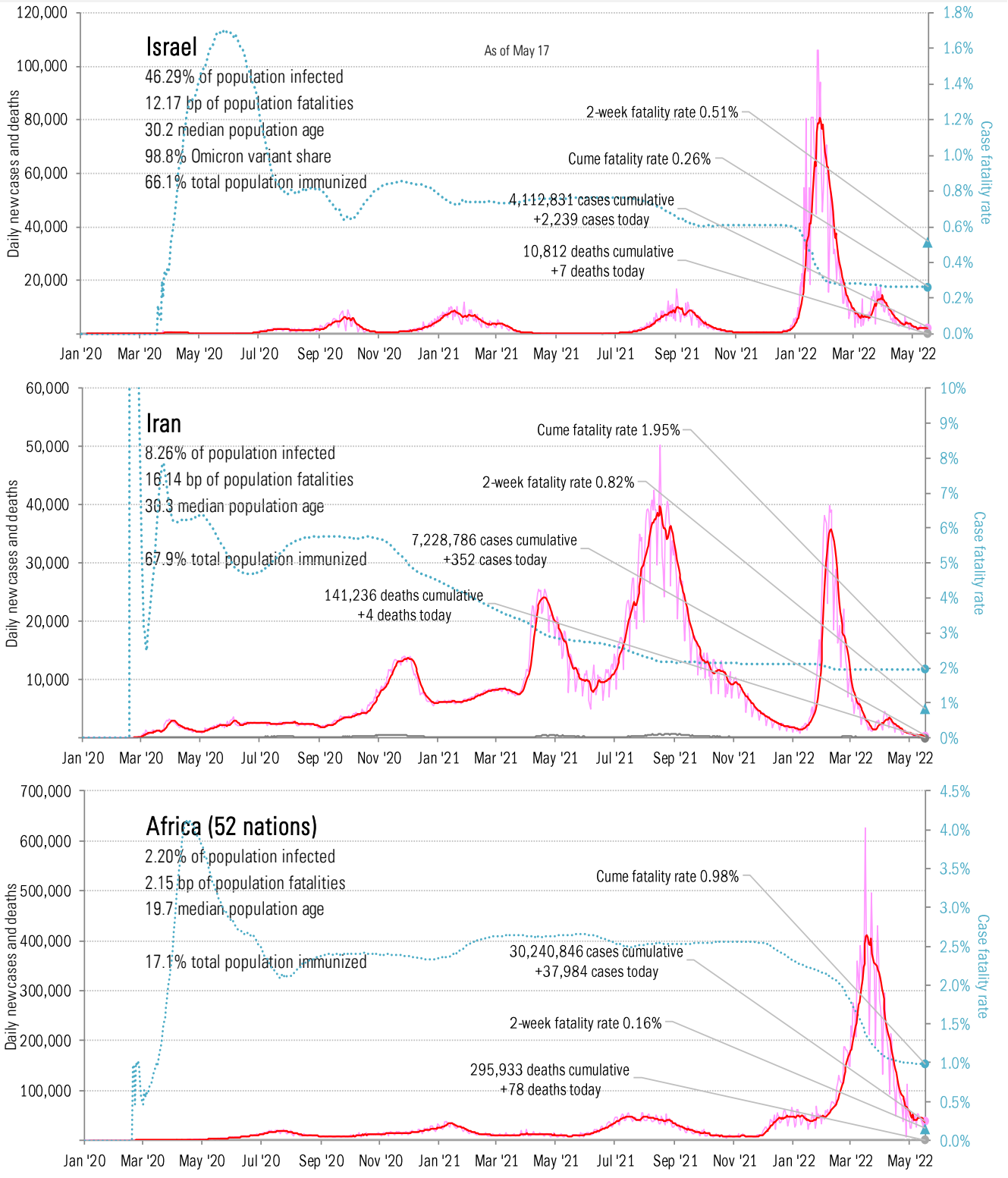
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

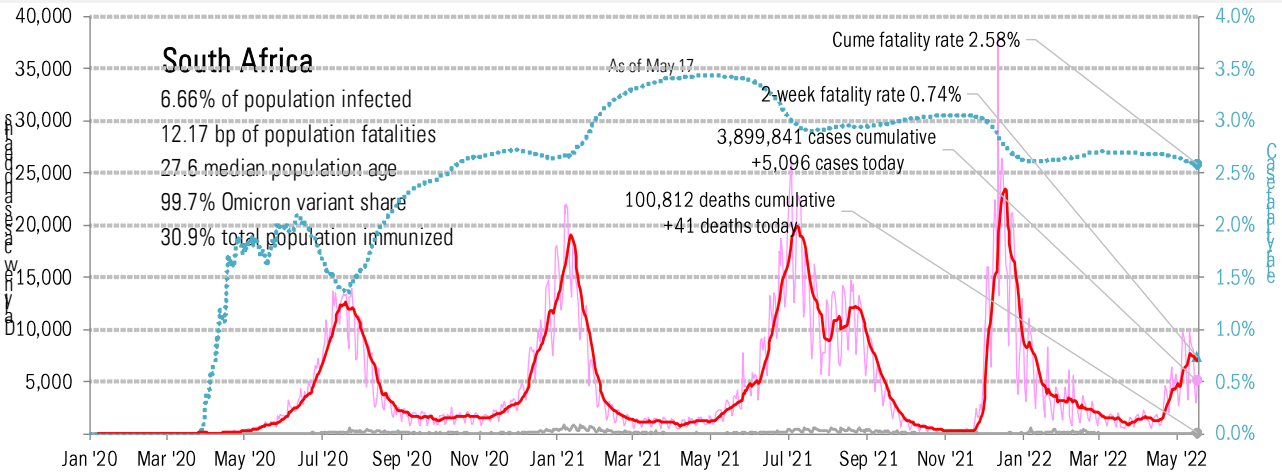
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations