Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

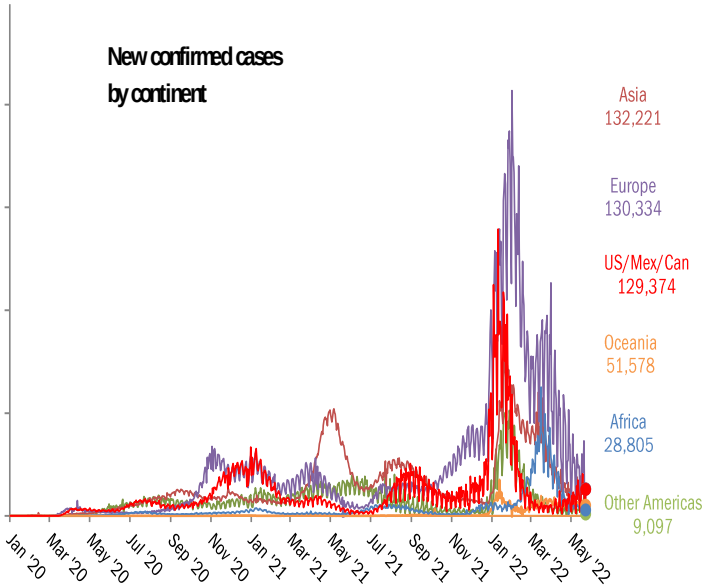
Tuesday, May 24, 2022

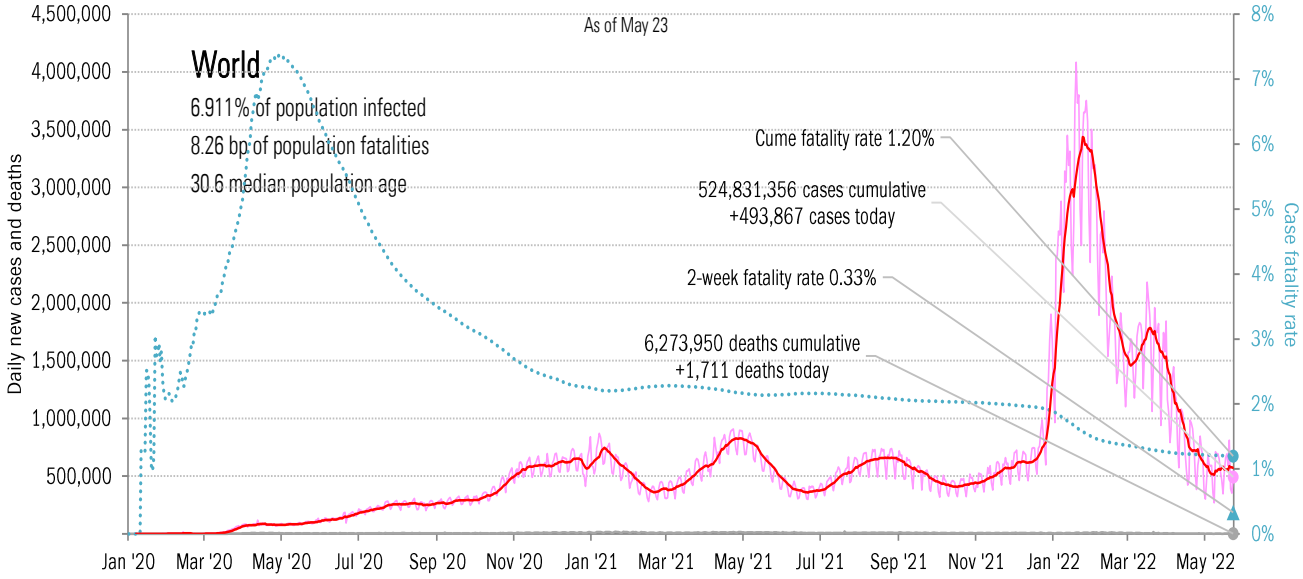
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	121,716	United States	480
Taiwan*	66,269	Germany	159
Germany	64,437	Mexico	151
Australia	42,868	France	132
Singapore	32,153	United Kingdom	108
Portugal	30,761	Italy	80
Korea, South	26,313	Russia	74
United Kingdom	26,054	Australia	69
Japan	18,391	Taiwan*	40
Brazil	12,775	Brazil	37
	441,737		1,330
World	493,867	World	1,711
Top ten	89%	Top ten	78%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

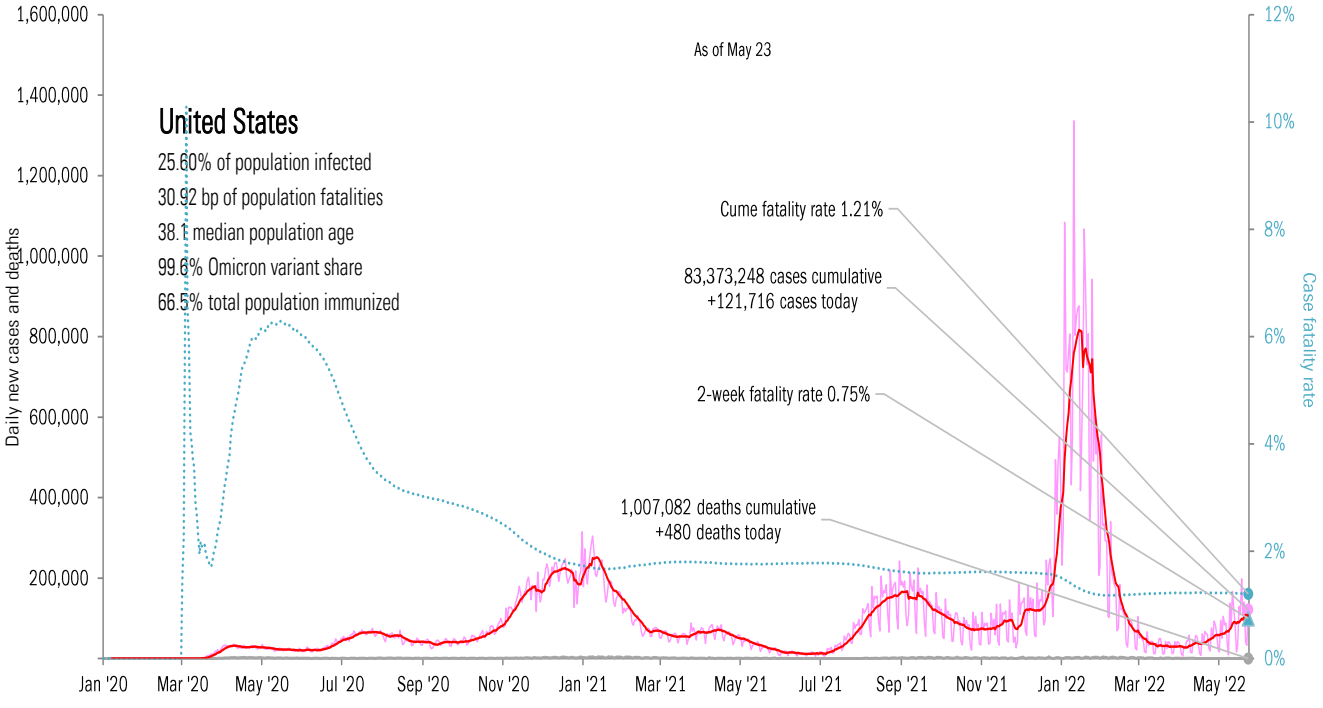
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
IL	14,432	NY	25	WA	130	CA	9,462,134	CA	91,057	TX	493,017	RI	93%	RI	87%
CA	12,219	FL	19	TX	158	TX	6,905,608	TX	88,314	CA	432,297	MA	86%	AK	87%
NY	11,533	IL	18	LA	52	FL	6,081,774	FL	74,489	FL	422,790	MN	85%	MA	82%
FL	11,429	MA	16	GA	86	NY	5,380,498	NY	68,830	NY	259,838	MD	82%	TX	80%
VA	8,618	CA	13	CA	294	IL	3,263,966	PA	44,898	GA	208,943	WV	82%	DE	80%
MA	8,363	MN	9	MA	145	PA	2,880,025	OH	38,590	OH	194,411	GA	81%	AL	79%
WA	6,706	NH	9	OH	126	OH	2,743,577	GA	38,157	PA	180,622	DE	81%	NM	79%
TX	4,122	NJ	9	VA	86	NC	2,715,798	MI	36,218	IL	161,745	NH	80%	NH	79%
OR	3,854	NM	9	CT	72	GA	2,541,713	IL	36,212	MI	145,589	DC	79%	MI	76%
CO	3,689	WA	9	IL	155	MI	2,501,863	NJ	33,619	KY	133,838	MO	79%	DC	76%
	84,965		136		1,304		44,476,956		550,384		2,633,090				
All states	121,716		480		3,270	All states	83,373,248		1,007,082		4,781,767	All states	70%		67%
Top ten	70%		28%		40%	Top ten	53%		55%		55%	Median	74%		70%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
PR	-1,673	FL	-119	NY	-204	LA	+10 bp
NJ	-972	PR	-7	FL	-64	VA	+10 bp
AZ	-612	AR	-6	CA	-57	AK	+0 bp
AR	-58	CO	-6	PA	-35	AL	+0 bp
AK	0	AK	0	SC	-28	AR	+0 bp



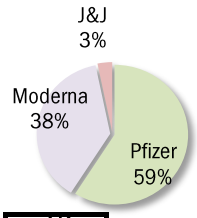
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	599,873,964				+0.085 million
Boosters	44,799,158				+0.005 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	266,000,452	80%	227,260,179	68%	+0.010 million
Age 12 to 17	17,767,580	70%	15,219,278	60%	+0.001 million
Age 18 to 64	178,745,444	88%	152,070,957	75%	+0.005 million
Age 65 and over	59,059,653	100%	51,542,954	94%	+0.003 million

Immunity	Full	Partial
US	66.5%	77.8%
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	83.7%	86.5%
Israel	66.1%	72.2%
Canada	82.4%	86.6%
Japan	80.9%	82.1%
Africa	17.1%	22.4%
India	63.3%	72.5%
Brazil	77.4%	85.6%
China	86.9%	89.3%

Global data differs due to sources, timing



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

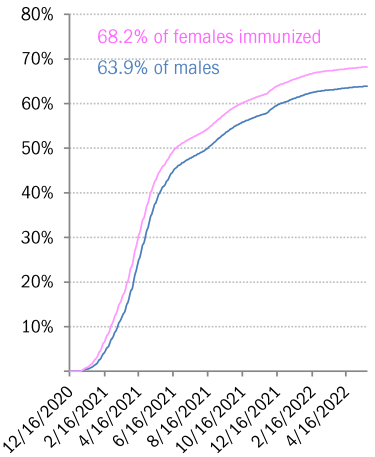
"Immunity" = two doses

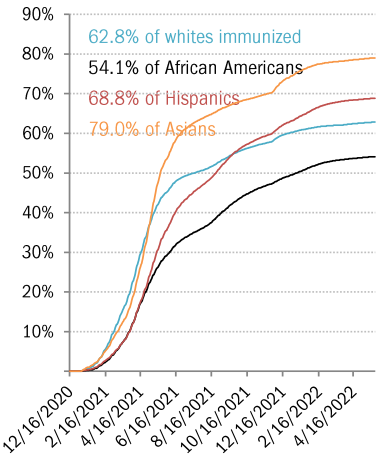
Best
Middle
Worst

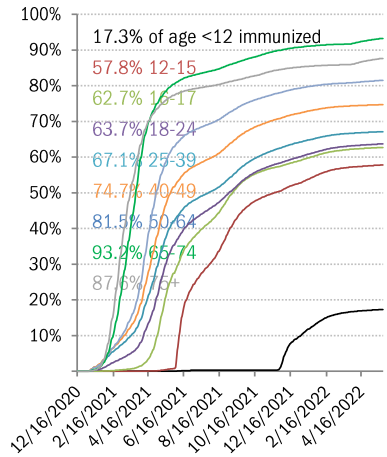
As of May 23

					WI					ME
					72.0%					91.0%
					65.8%					80.0%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
81.1%	61.9%	65.5%	65.8%	75.3%	76.3%	67.2%		90.5%	93.9%	88.8%
72.8%	55.5%	57.0%	55.8%	69.4%	69.0%	60.4%		77.3%	81.5%	71.0%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
78.2%	75.6%	58.2%	77.0%	68.1%	61.6%	63.8%	85.3%	90.8%	95.0%	
69.9%	61.1%	51.1%	61.9%	62.1%	55.0%	58.9%	68.9%	76.0%	79.4%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
82.5%	72.3%	79.6%	70.4%	66.4%	66.4%	65.2%	86.1%	86.8%	95.0%	95.0%
72.5%	64.5%	70.5%	63.7%	56.3%	57.6%	57.8%	73.6%	76.0%	79.6%	83.0%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	73.4%	88.2%	74.8%	67.0%	62.4%	84.8%	67.9%	95.0%	83.5%	
	61.9%	71.5%	61.8%	54.7%	54.7%	61.8%	57.3%	78.2%	69.5%	
			OK	LA	MS	AL	GA			
			71.4%	61.2%	59.8%	62.9%	65.6%			
			57.6%	53.7%	52.0%	51.3%	55.0%			
HI			TX					FL		PR
87.7%			73.6%					79.6%		95.0%
78.5%			61.8%					67.2%		83.3%

The demographics of US vaccination



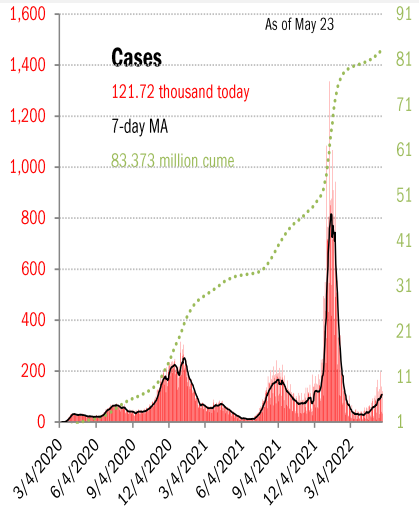


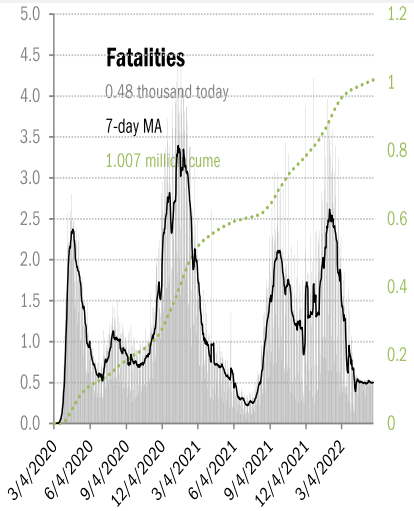


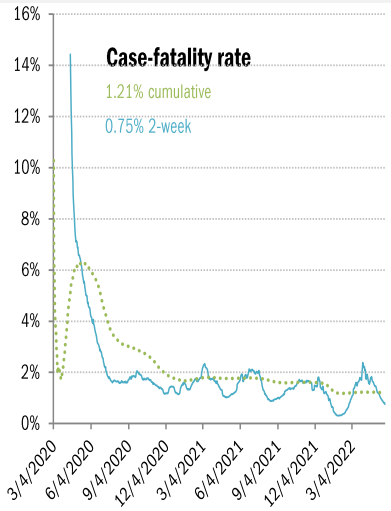
Source: CDC, CDC, Our World in Data, TrendMacro calculations

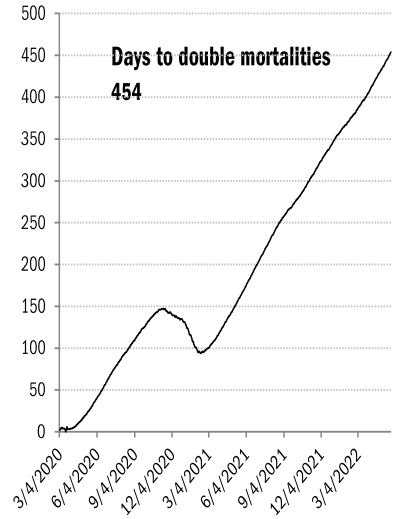
US deep-dive

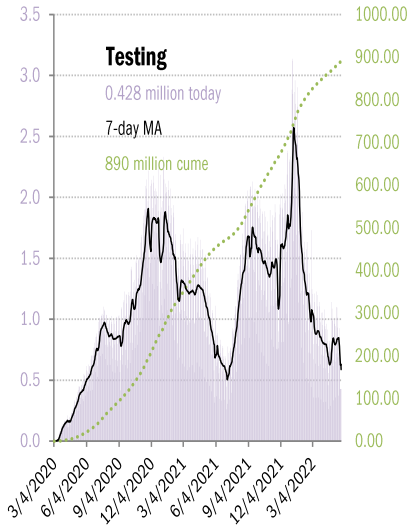
National and state-by-state data do not line up because of different sources

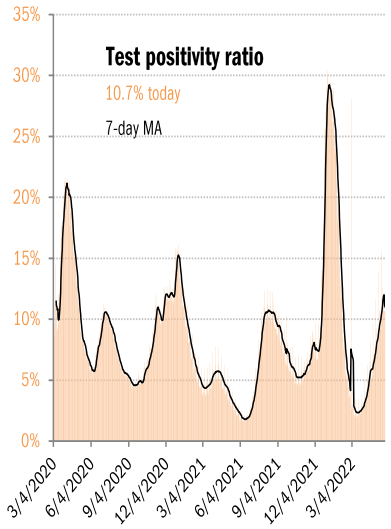


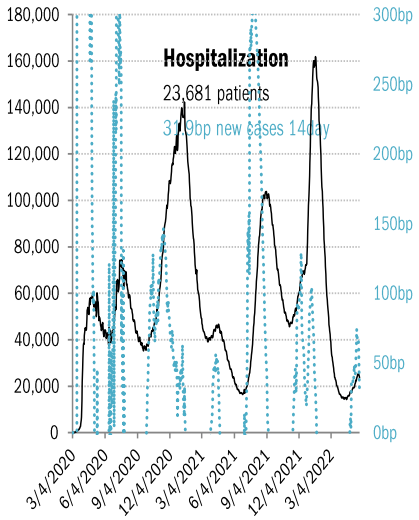


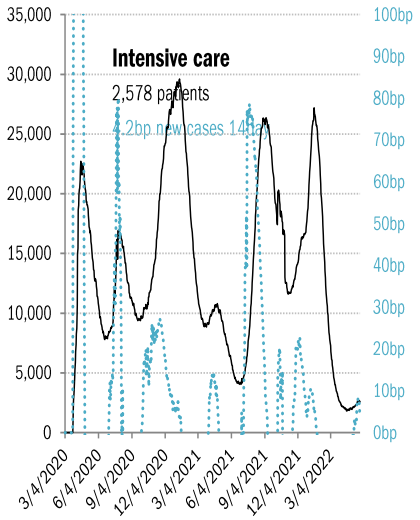


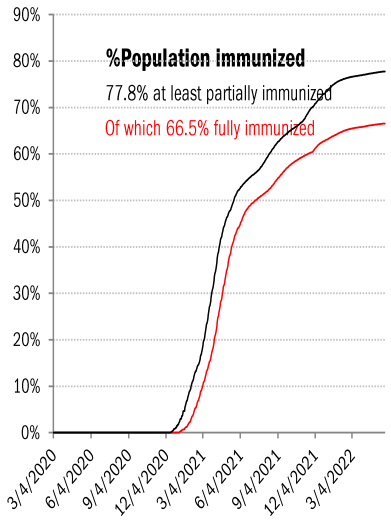












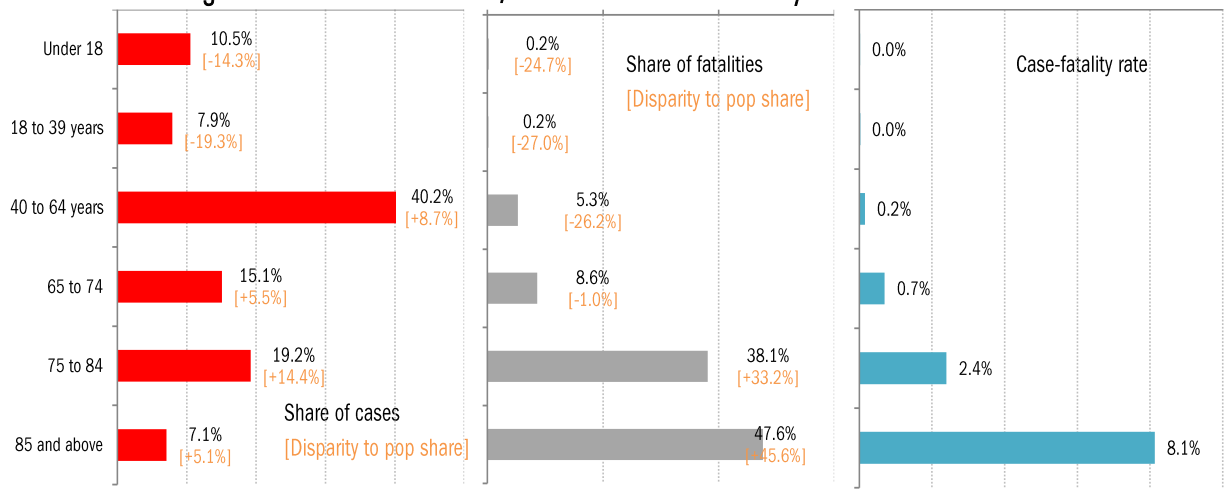
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

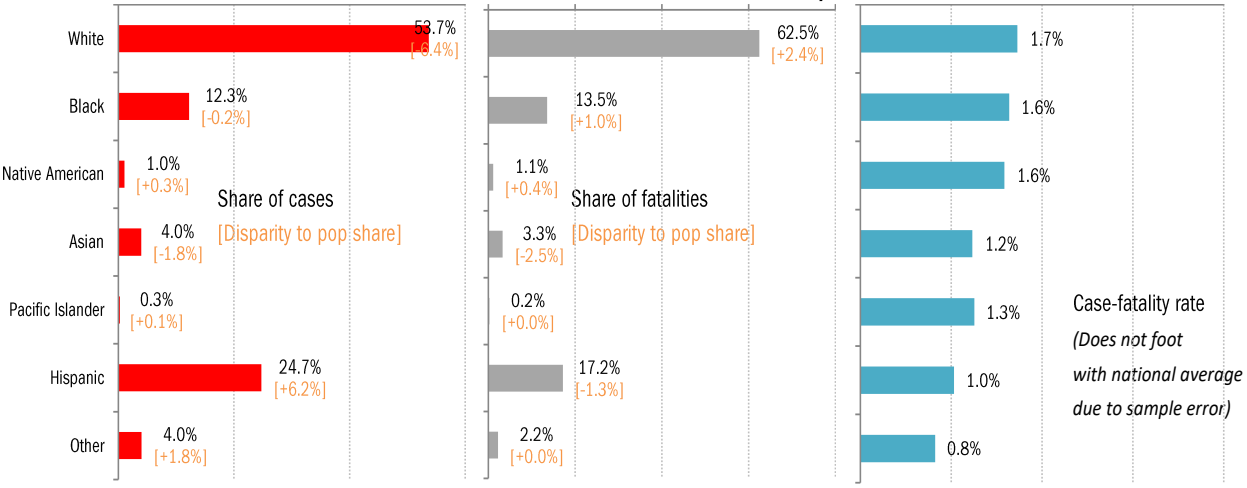
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



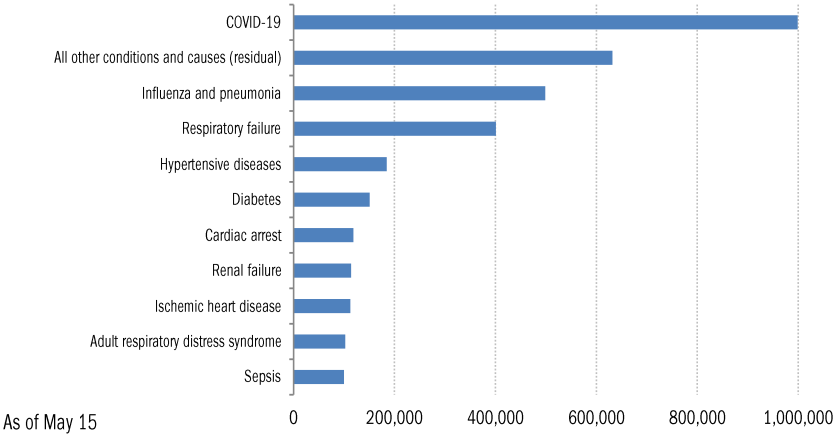
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of May 15

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

[Airbnb to quit China as lockdowns restrict tourism](#)
BBC
May 24, 2022

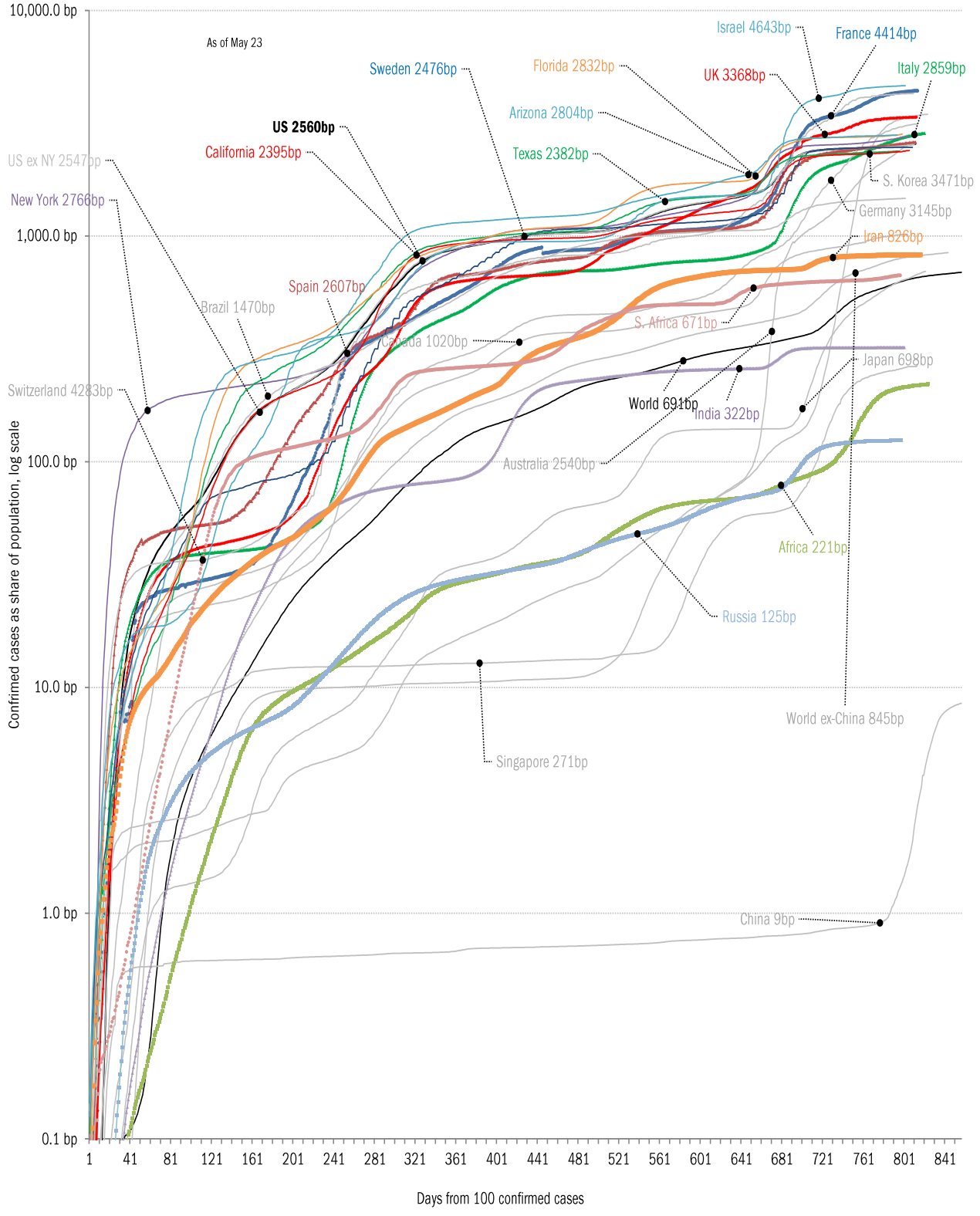
[Expert: Monkeypox likely spread by sex at 2 raves in Europe](#)
Maria Cheng
Seattle Times
May 23, 2022

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

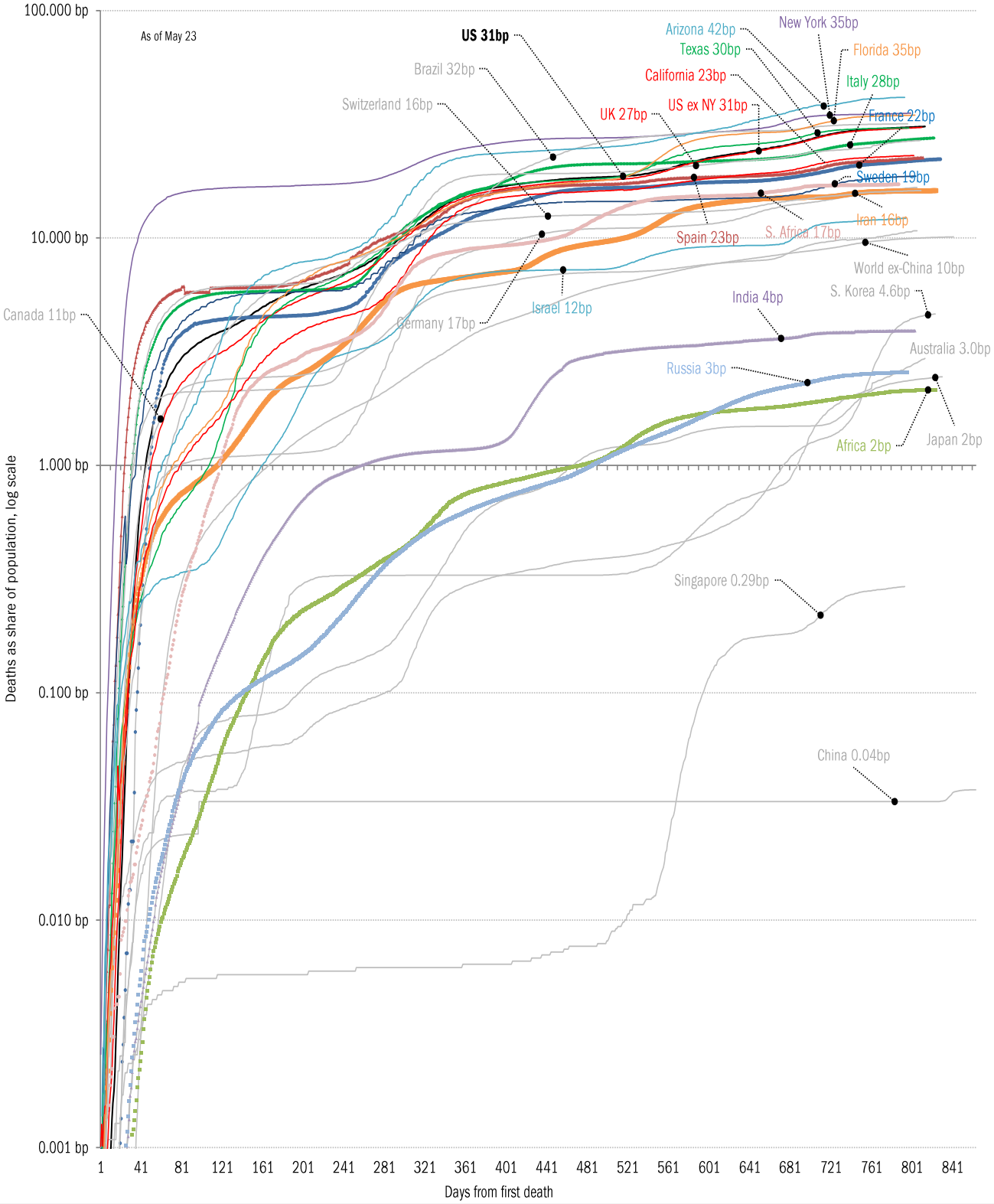
Share of infected population from first day with 100 confirmed cases, log scale



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

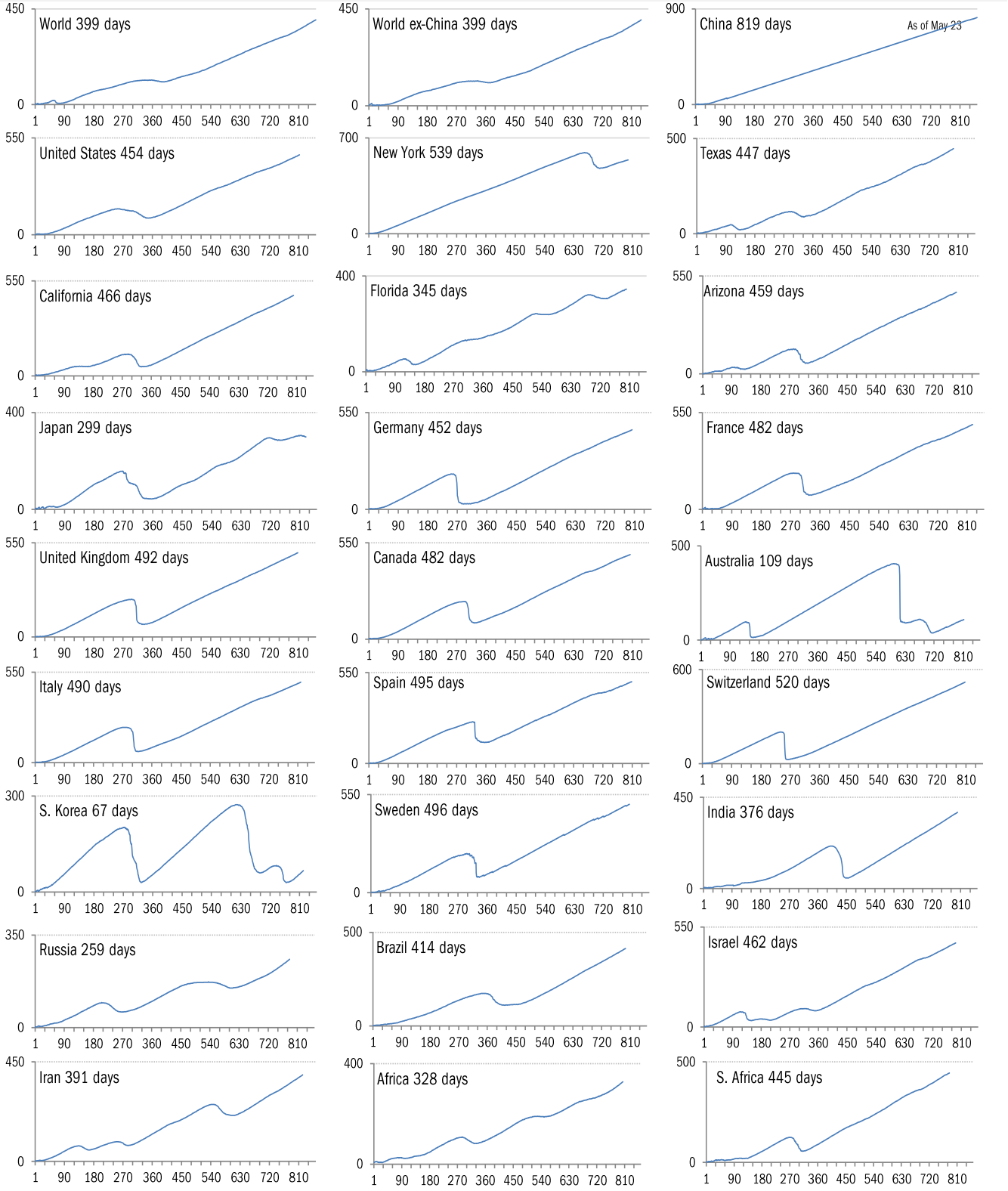


Source: Johns Hopkins, TrendMacro calculations

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

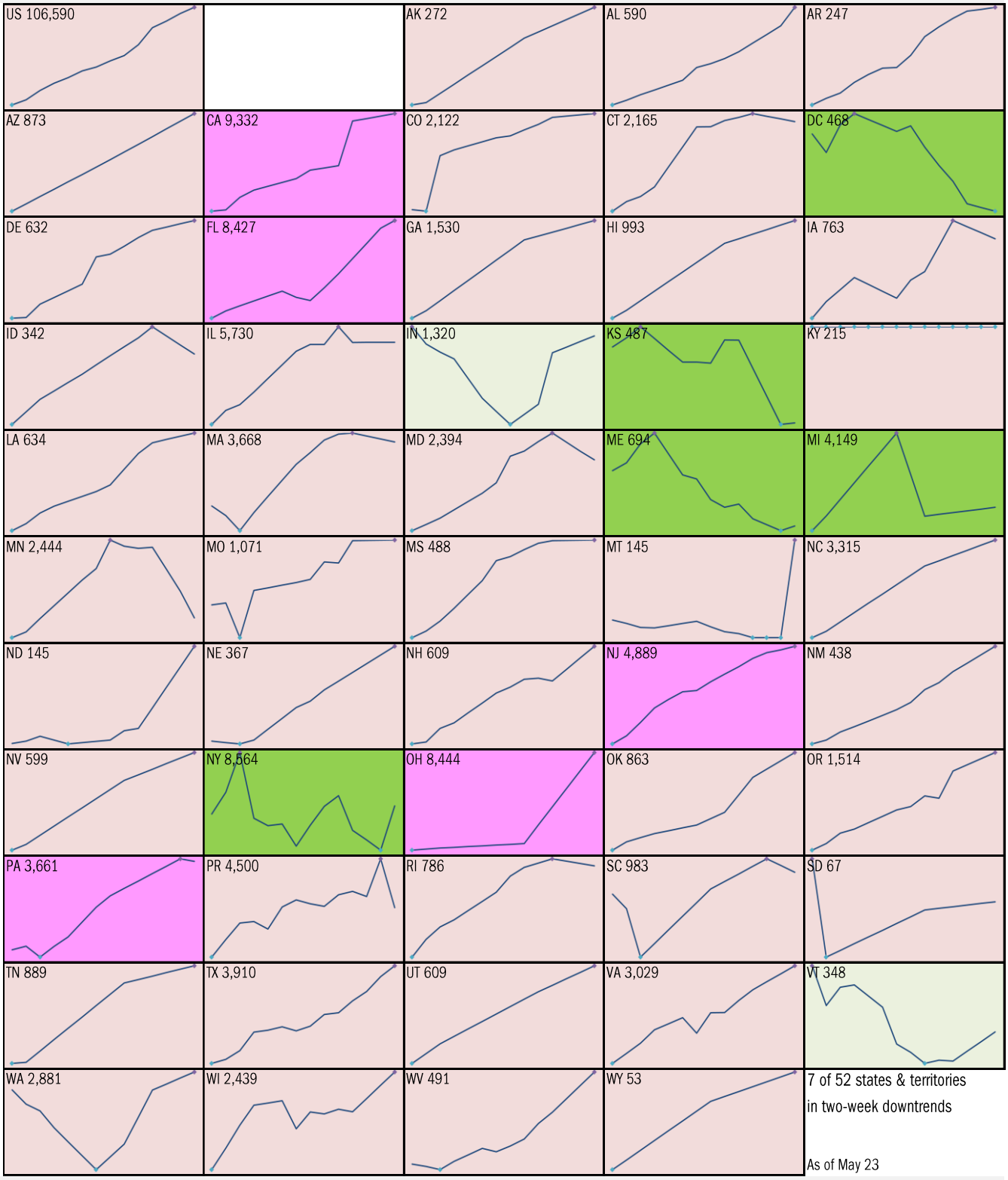


Source: Johns Hopkins, TrendMacro calculations

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

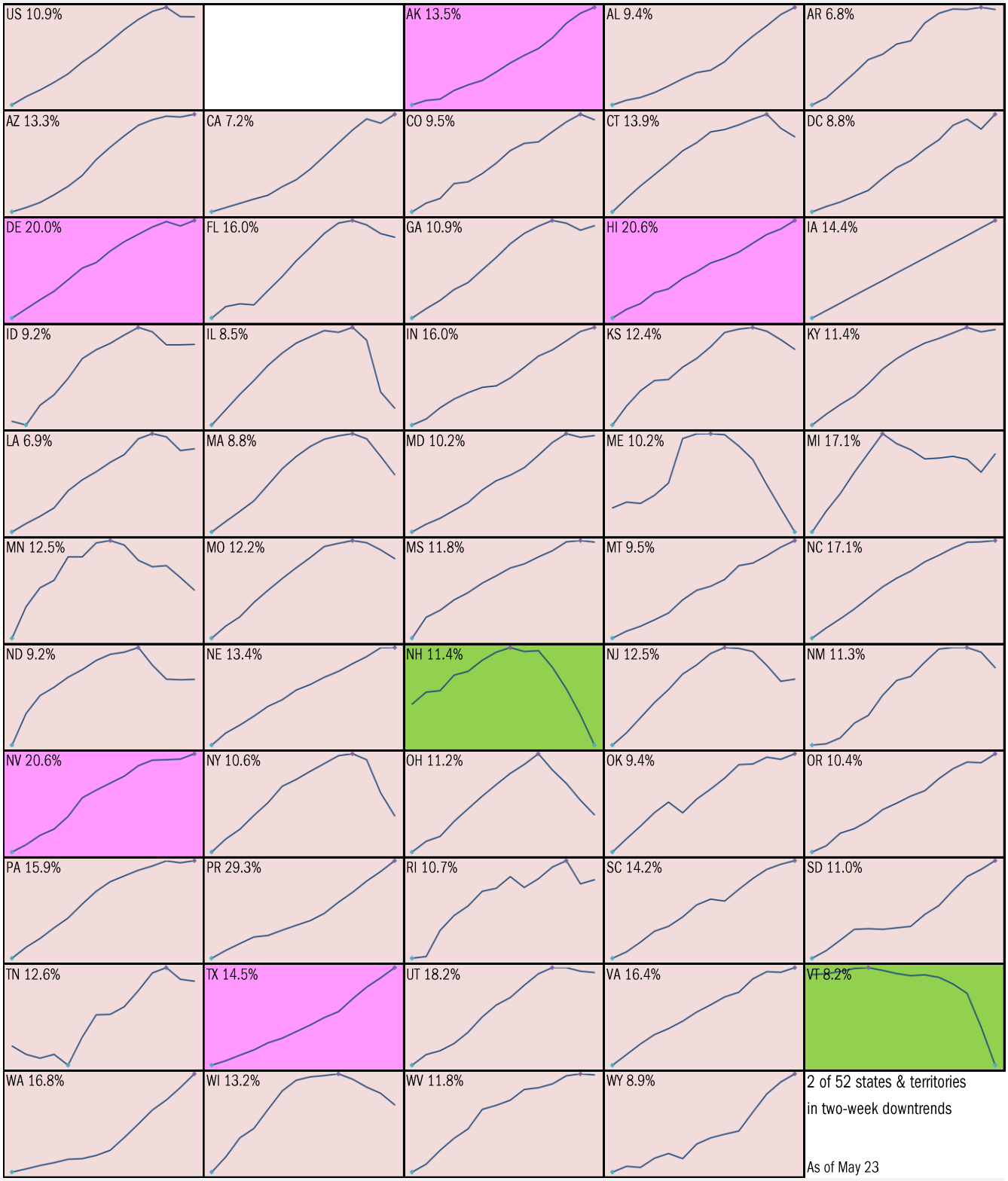


Source: Johns Hopkins, TrendMacro calculations

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

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

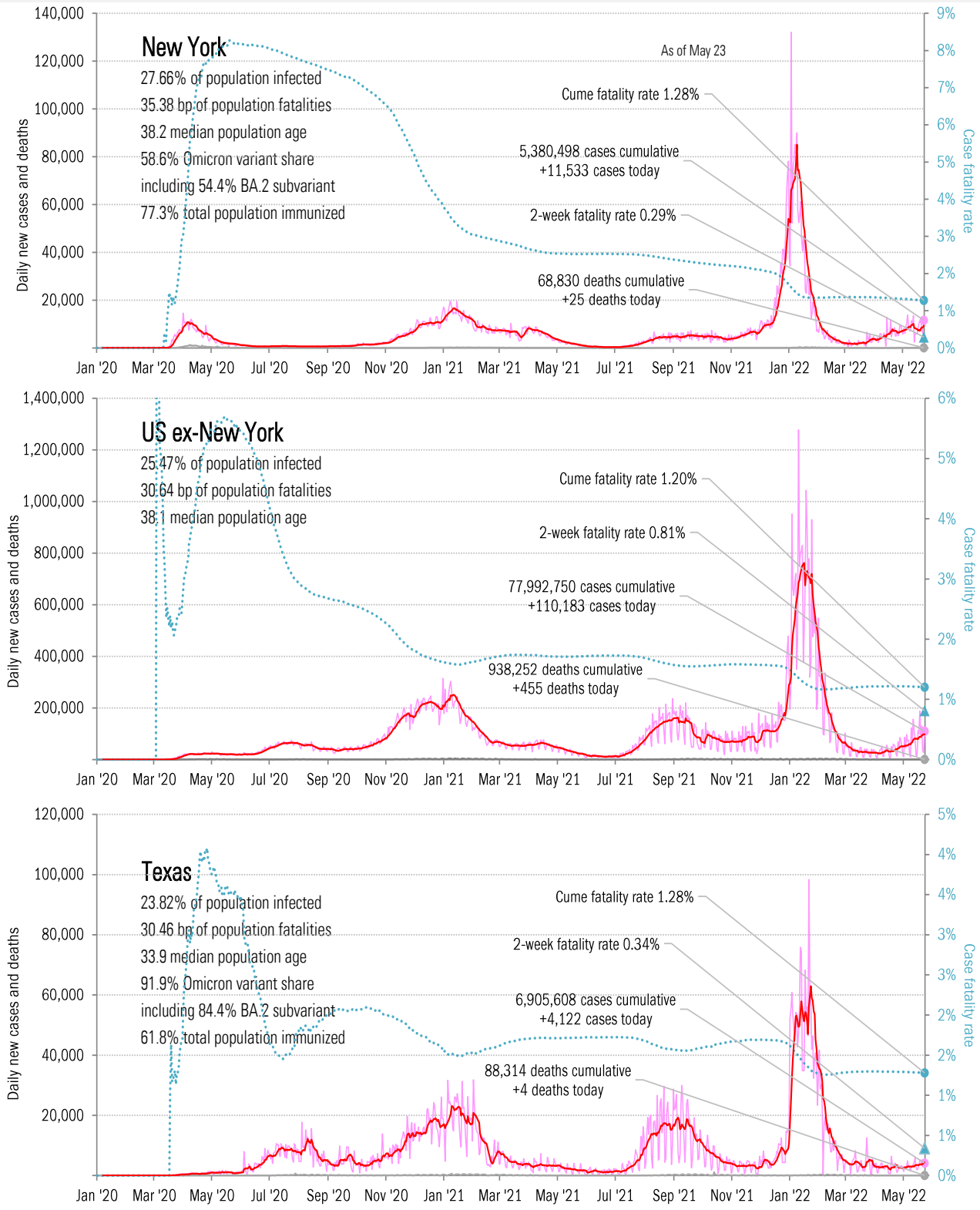
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

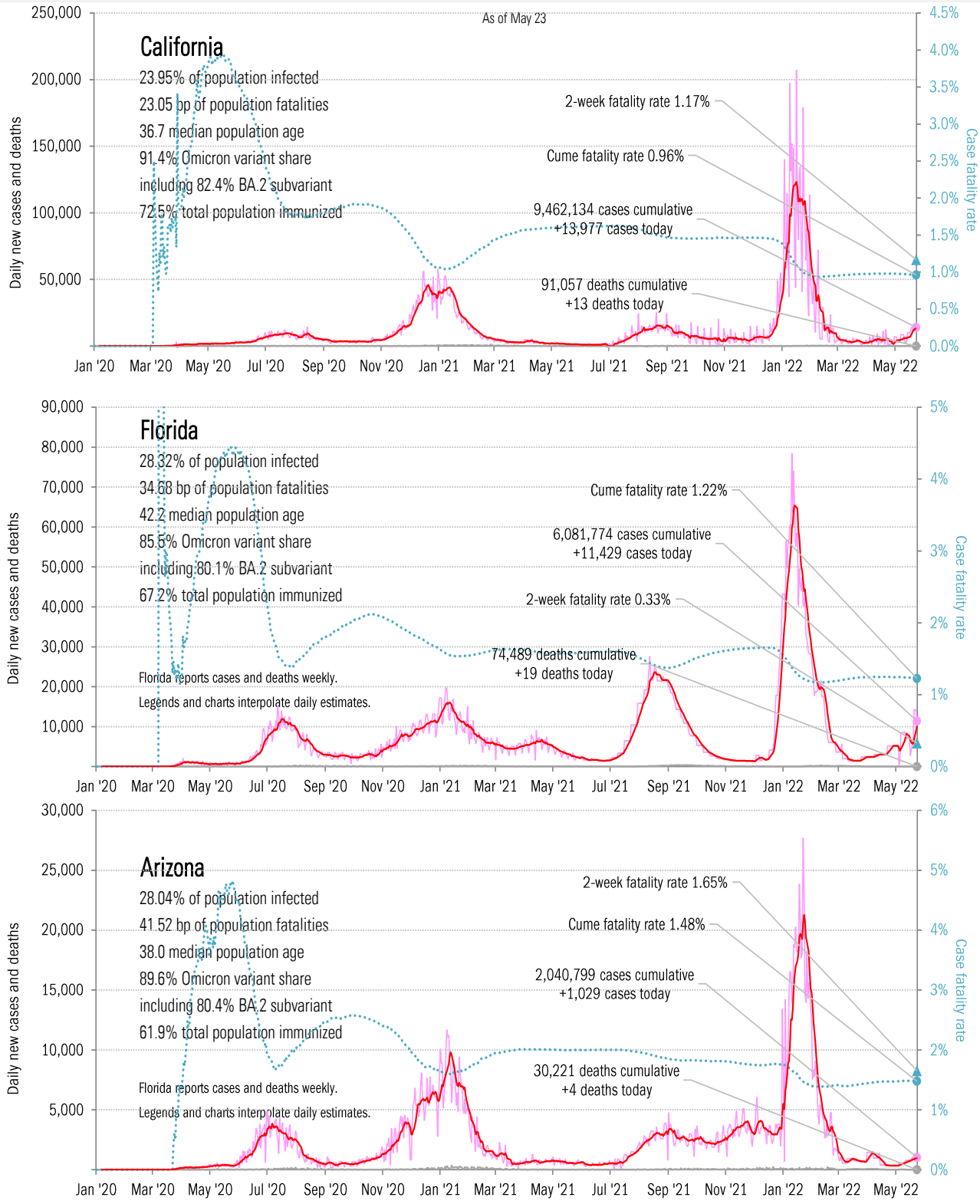
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

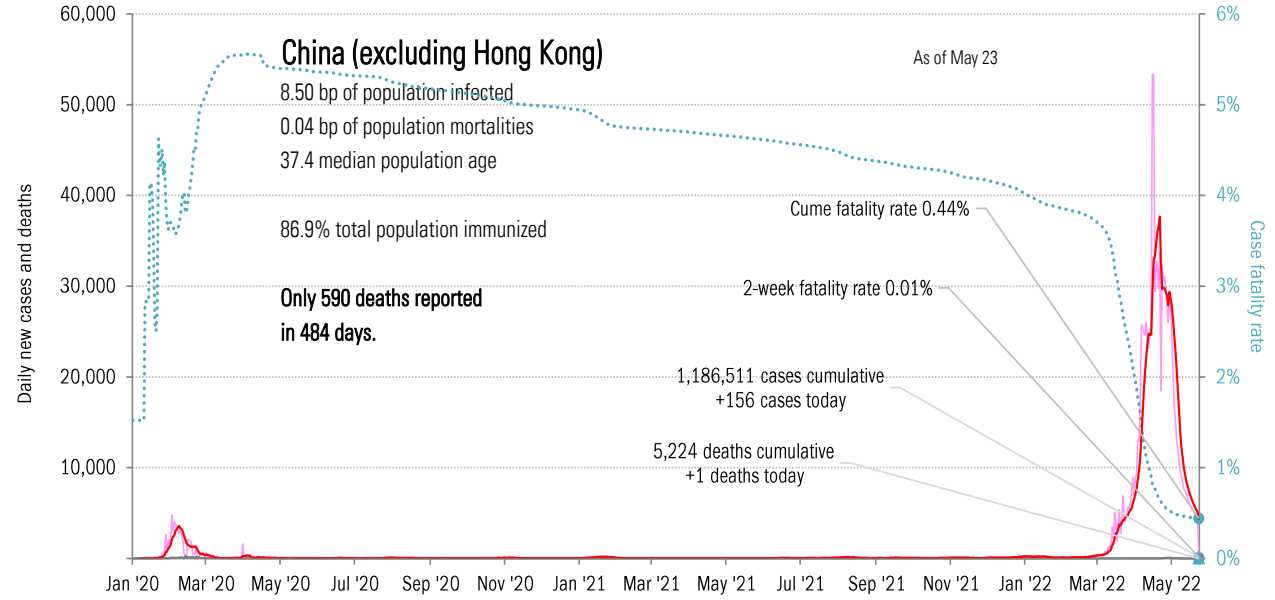
Cases: 7-day average and daily Deaths: Daily

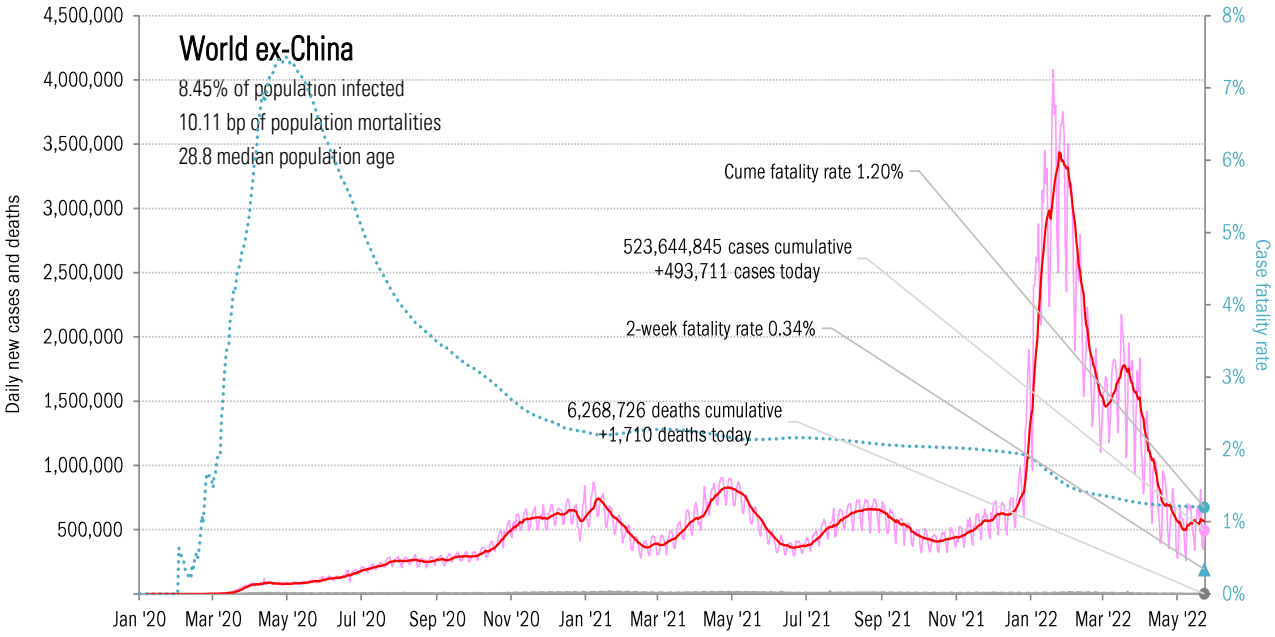


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

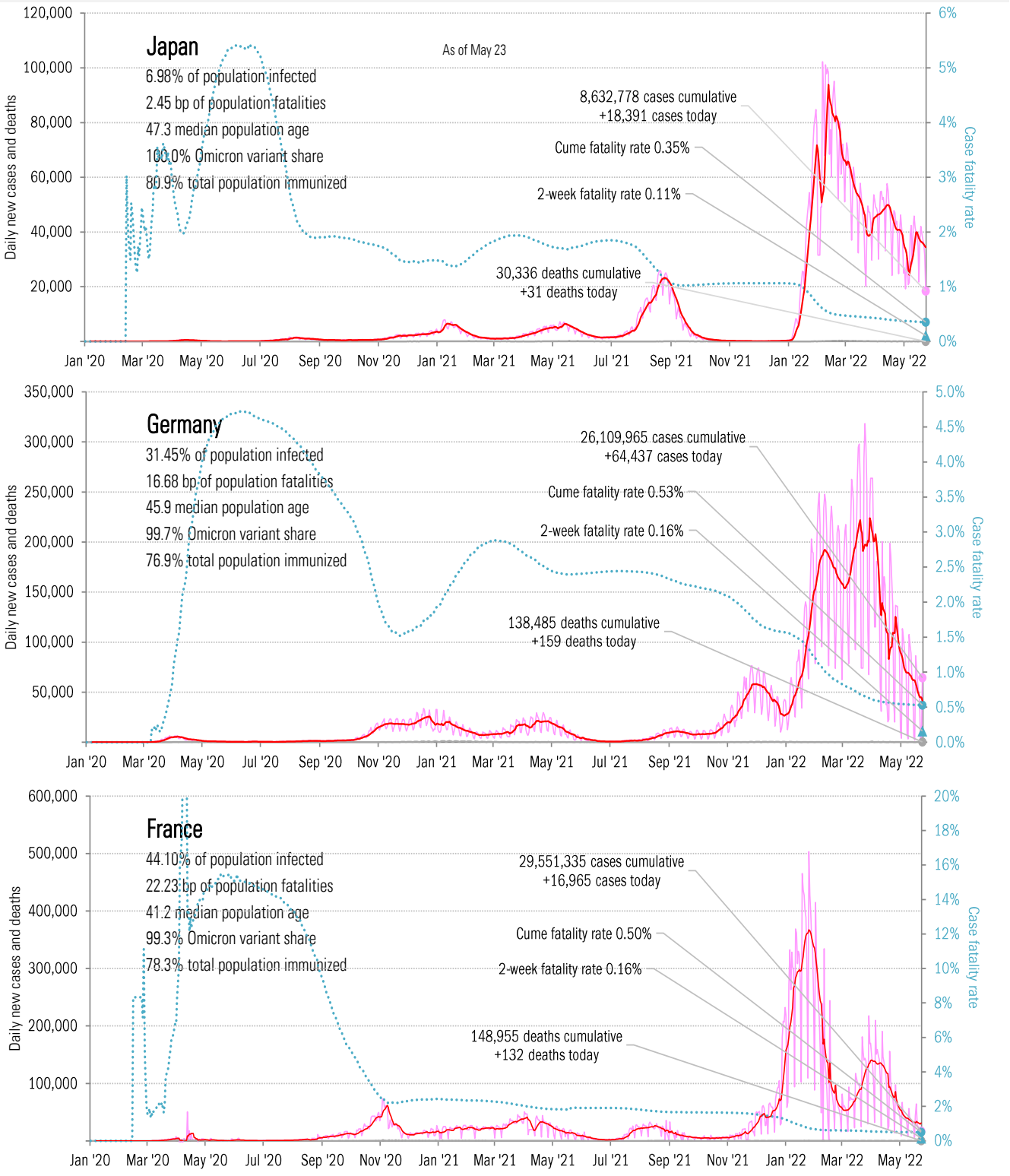




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

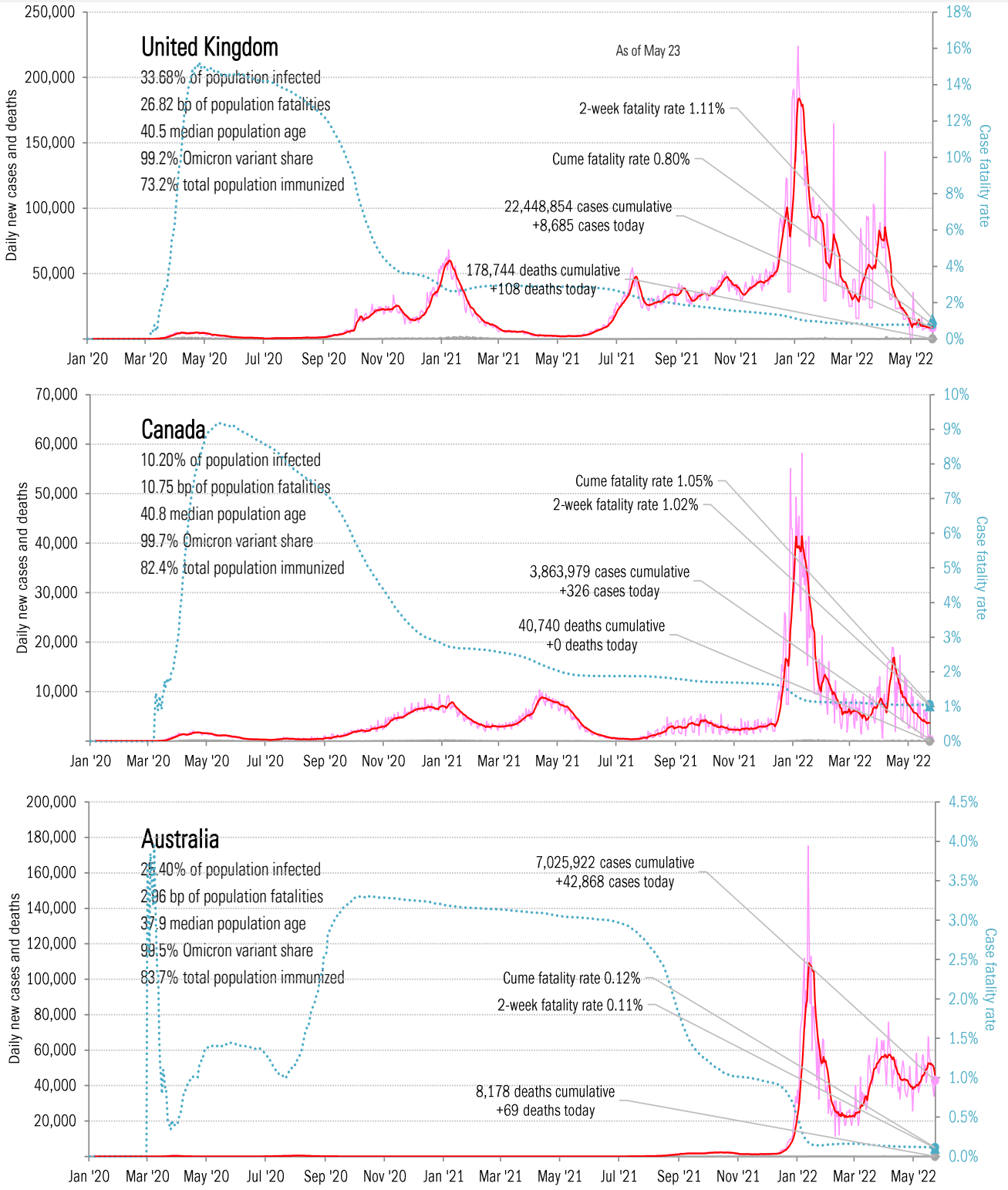
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

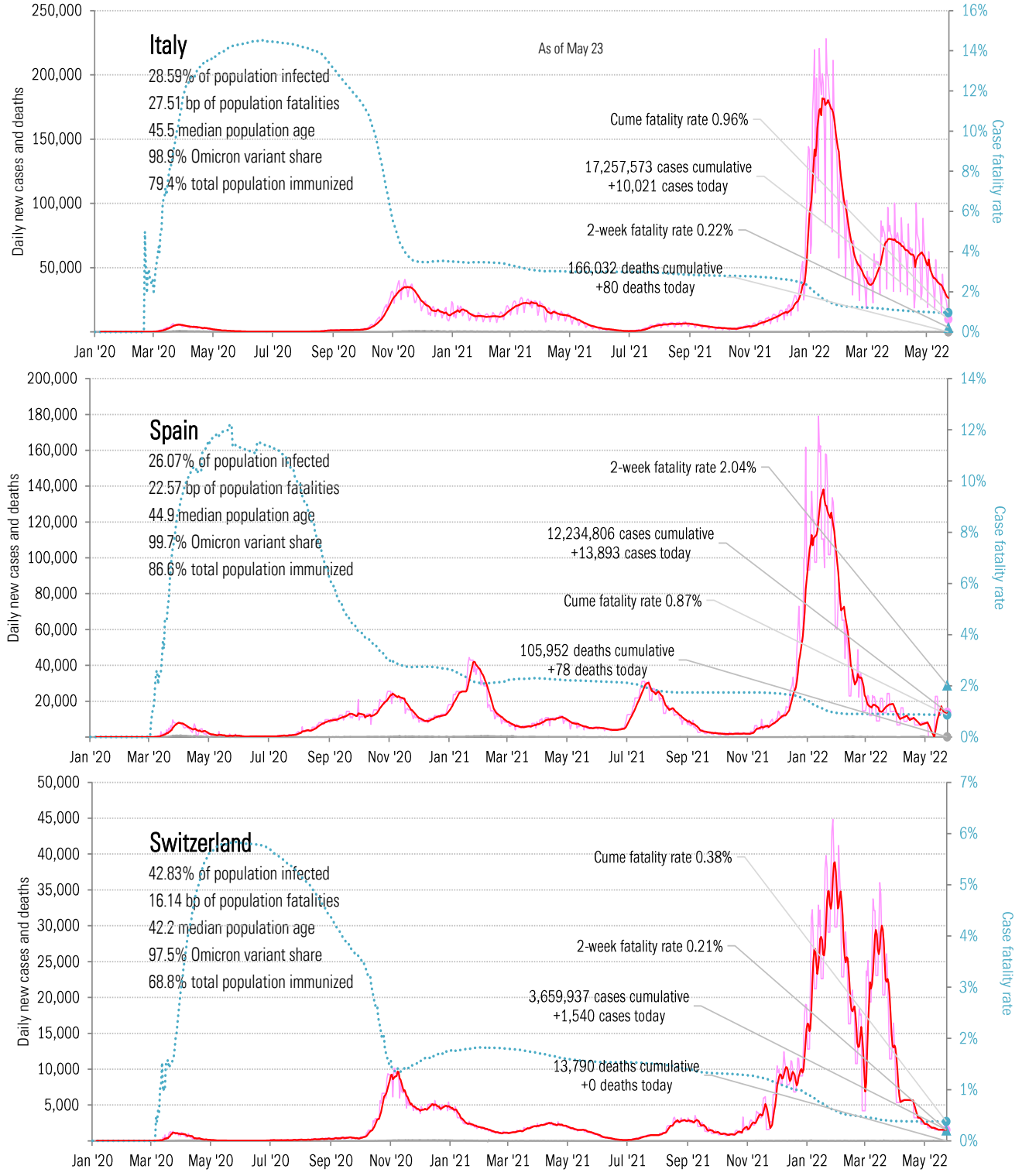
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

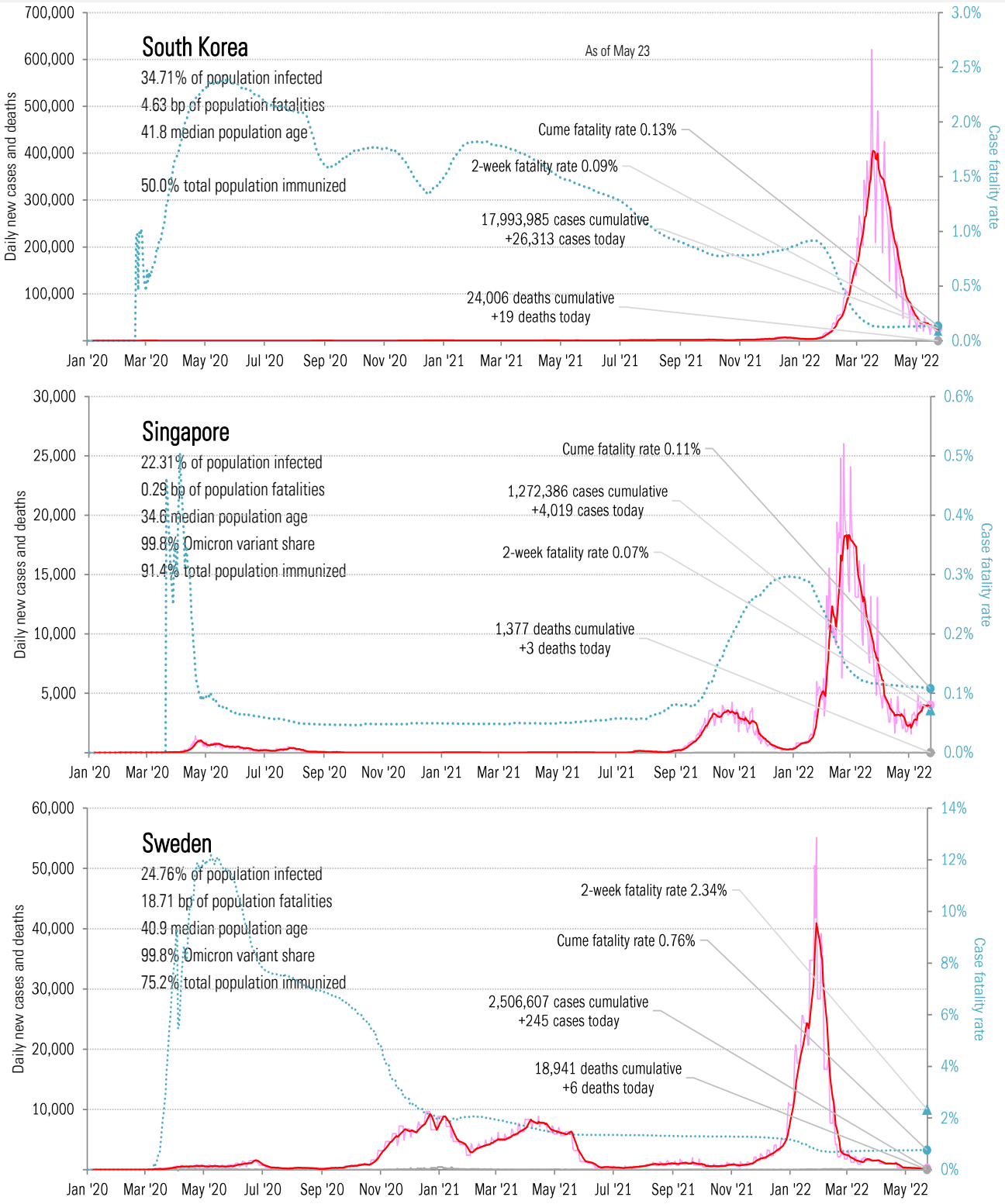
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

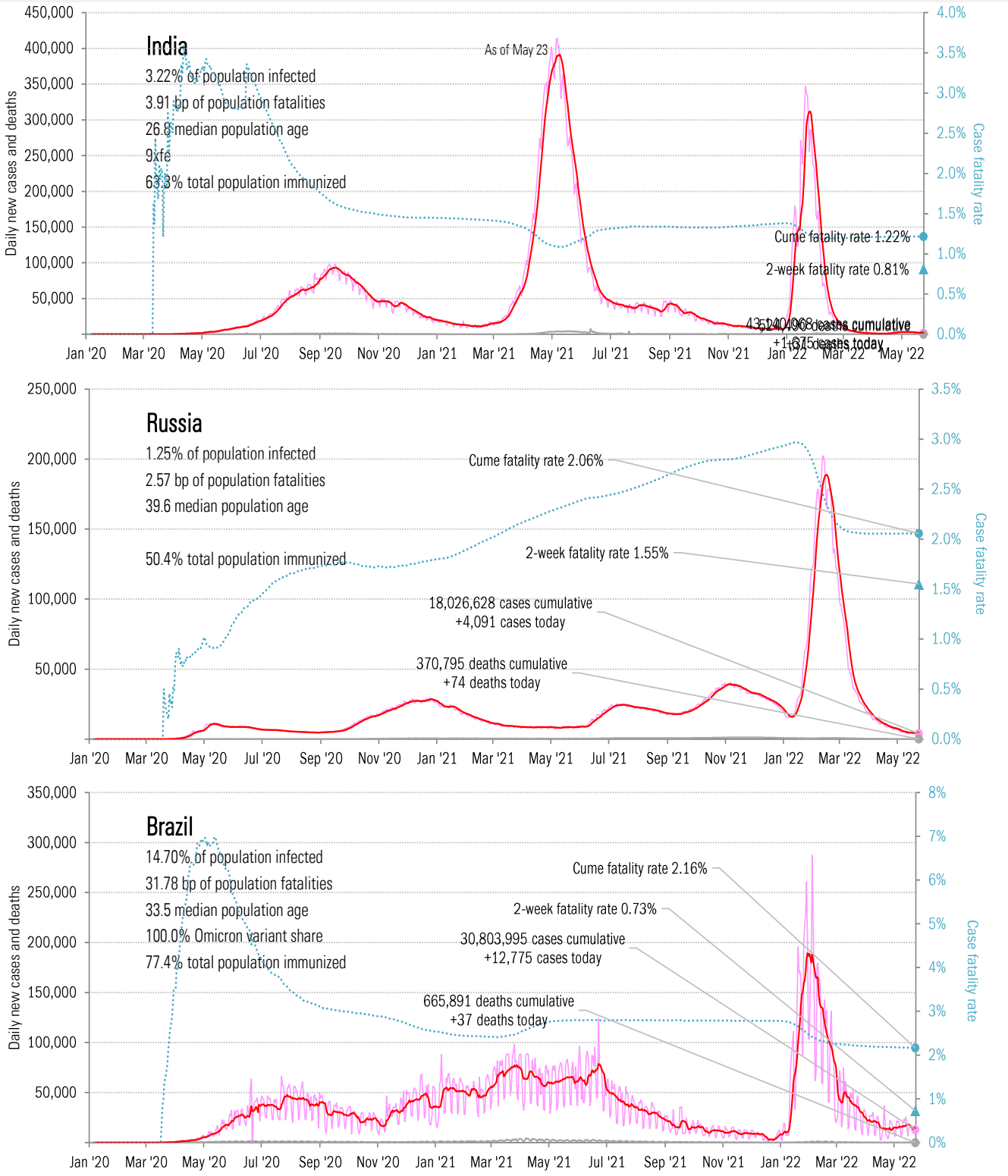
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

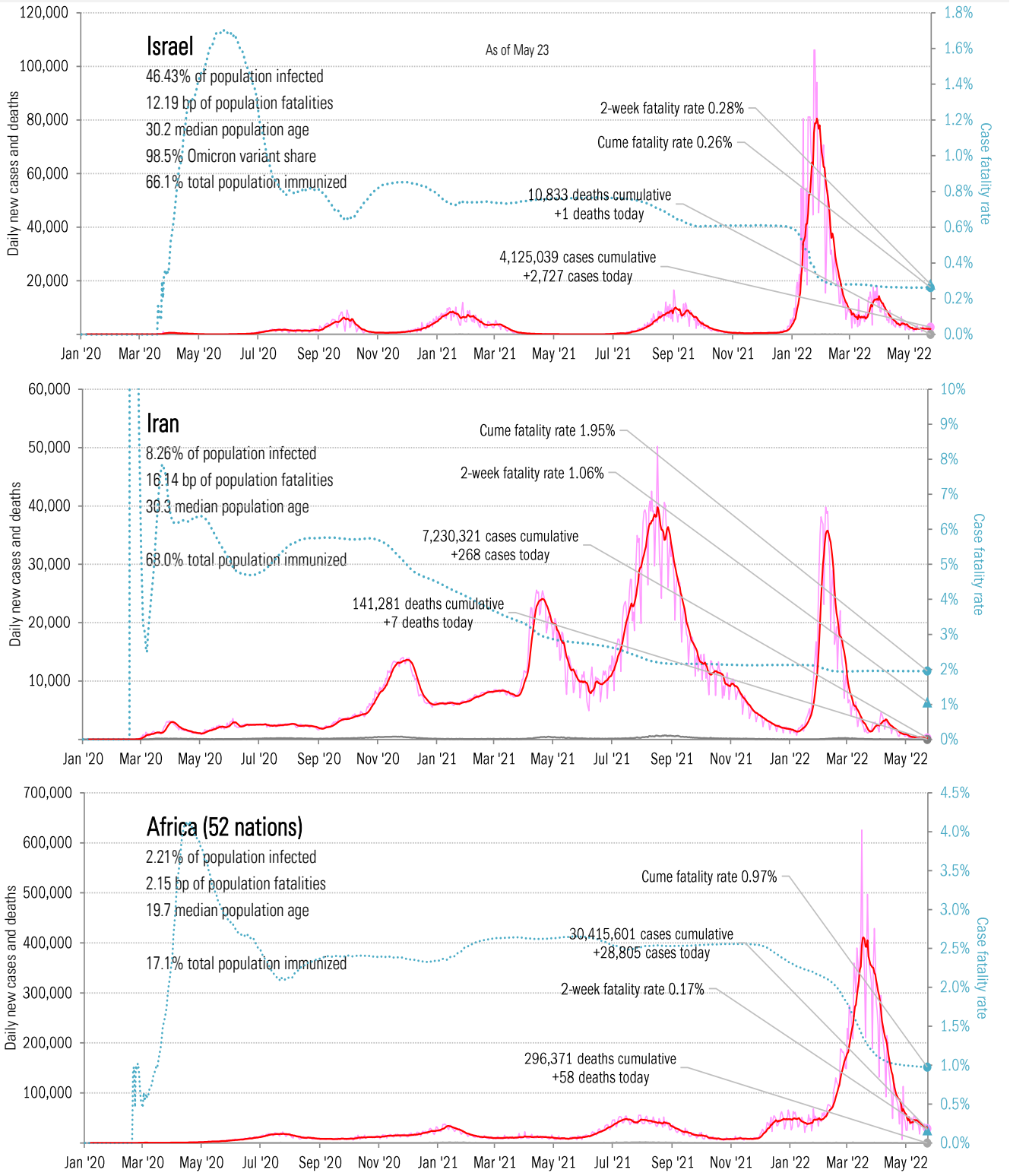
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

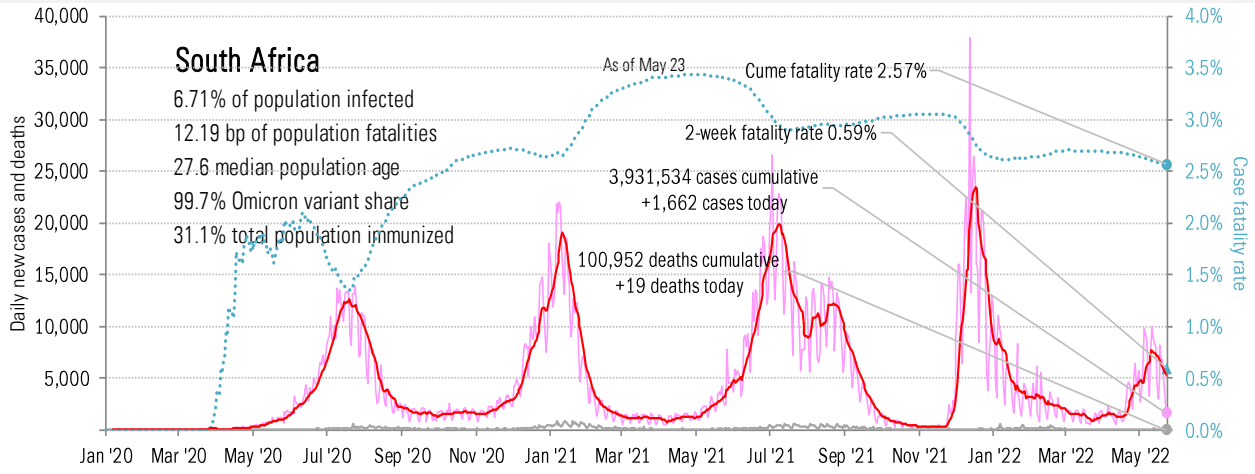
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations