Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

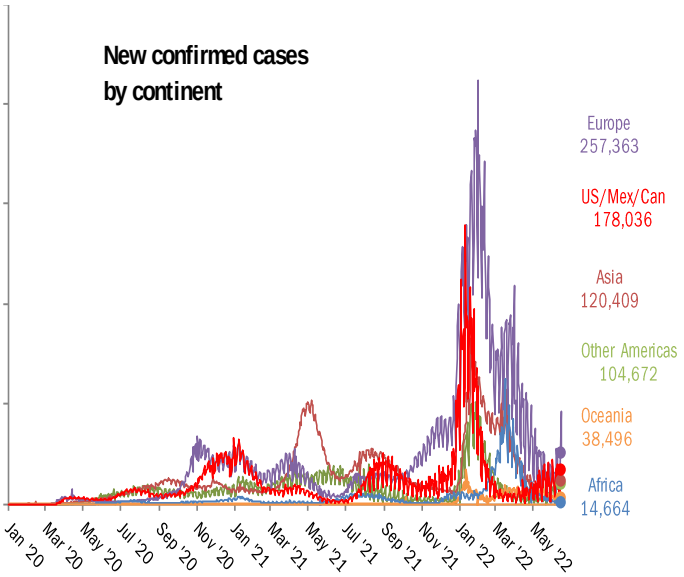
Thursday, June 16, 2022

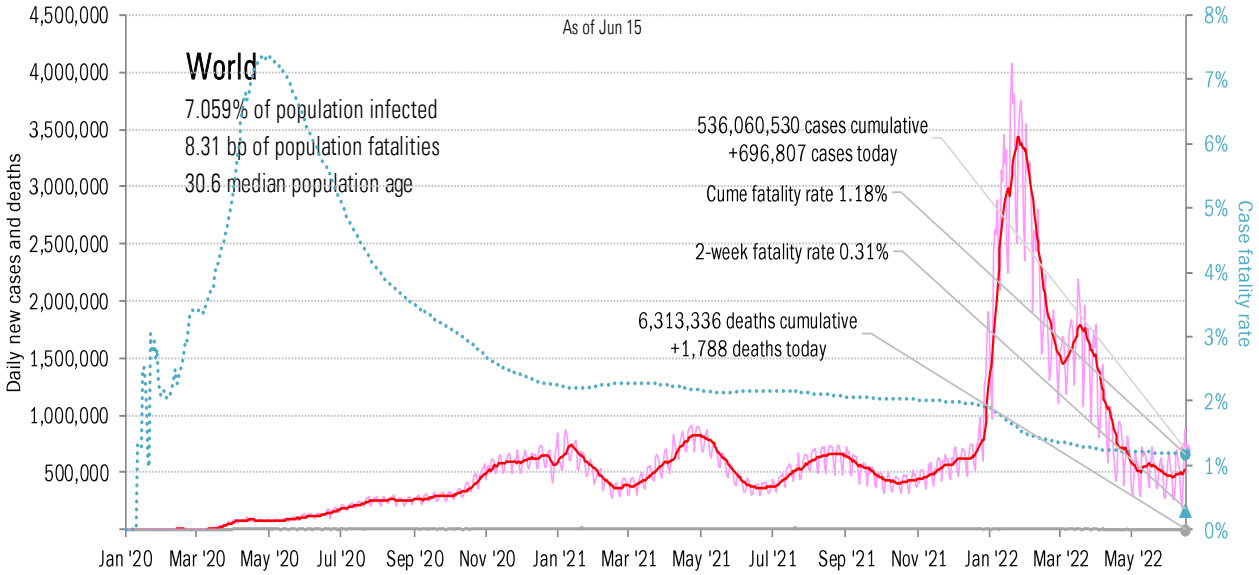
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	166,264	United States	443
Germany	89,142	Brazil	339
Brazil	70,290	Taiwan*	143
Taiwan*	68,931	Korea, South	98
France	52,108	Germany	73
Italy	32,809	Australia	72
Australia	32,325	Russia	63
United Kingdom	26,659	France	49
Portugal	20,041	Italy	48
Japan	16,544	United Kingdom	48
	575,113		1,376
World	696,807	World	1,788
Top ten	83%	Top ten	77%





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

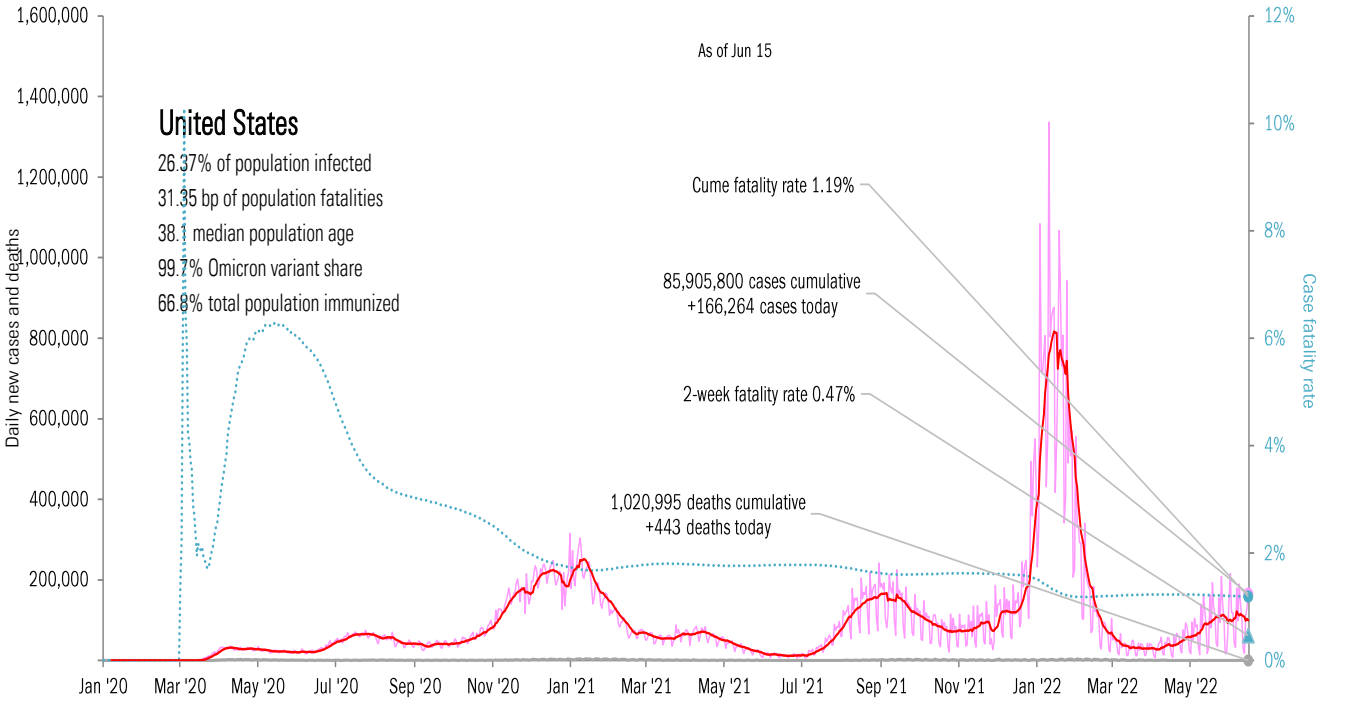
New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
NC	24,464			GA	155	CA	9,857,418	CA	91,821	TX	498,599	RI	90%	DE	91%
GA	19,315			CA	488	TX	7,049,853	TX	88,517	CA	441,925	MA	86%	RI	83%
MI	15,578			MA	115	FL	6,295,256	FL	75,087	FL	433,969	WA	86%	WA	83%
FL	10,523			SC	82	NY	5,529,833	NY	69,387	NY	266,767	GA	85%	VT	83%
NV	9,129			NJ	149	IL	3,371,262	PA	45,413	GA	207,914	MN	84%	TX	82%
HI	7,199	TX	36	TX	287	PA	2,956,361	OH	38,657	OH	197,658	NH	84%	NH	82%
TX	7,186	NV	32	AR	39	NC	2,823,979	IL	38,368	PA	184,638	WV	82%	MA	81%
CA	5,982	NY	32	AL	56	OH	2,798,900	GA	38,360	IL	165,754	MD	81%	AL	80%
IL	5,737	CA	28	FL	562	GA	2,608,172	MI	36,675	MI	148,414	DE	81%	OR	79%
WA	5,006	WA	28	NC	105	MI	2,581,397	NJ	33,896	KY	135,089	PA	81%	AK	78%
	110,119		492		2,038		45,872,431		556,181		2,680,727				
All states	166,264		443		4,418	All states	85,905,800		1,020,995		4,870,338	All states	70%		67%
Top ten	66%		111%		46%	Top ten	53%		55%		55%	Median	75%		73%

US state fatality data distorted today due to revisions.

Some states not reporting

Five most improved US states

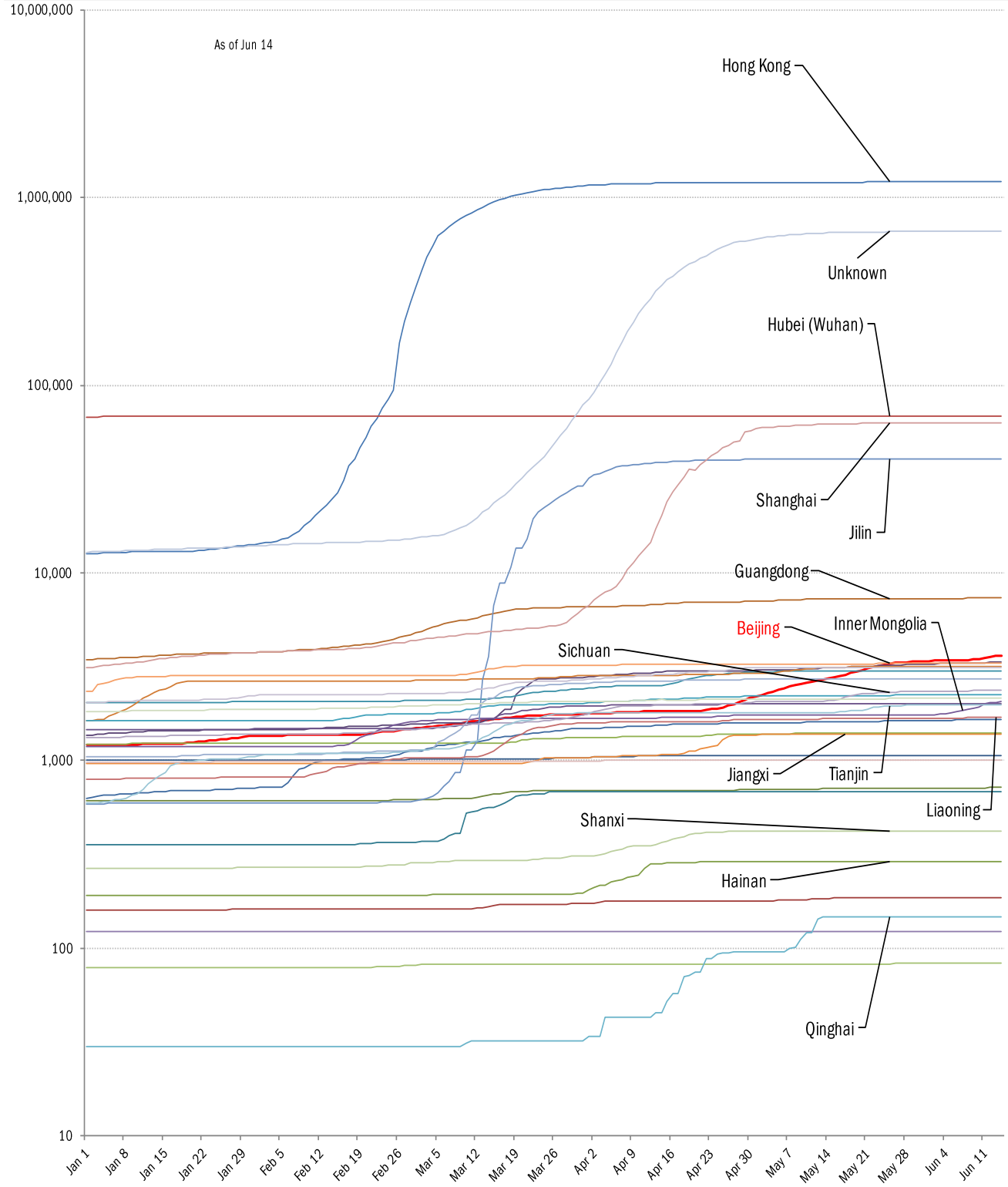
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-42,208	FL	-66	CO	-62	CT	+10 bp
SC	-10,348	CA	-52	WV	-40	KS	+10 bp
TN	-4,844	SC	-25	FL	-25	RI	+10 bp
MN	-2,478	NY	-24	TN	-24	WA	+10 bp
MD	-2,282	CT	-15	DE	-20	AK	+0 bp



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

China provincial coronavirus case accelerometer… tracking the "zero Covid" curves

Cumulative reported cases this year, log scale: flat line indicates "zero Covid"



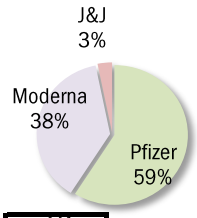
Source: Johns Hopkins, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	607,526,008				+0.581 million
of which boosters	105,985,969				+0.151 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	267,014,493	80%	228,227,230	68%	+0.116 million
Age 12 to 17	17,861,286	71%	15,304,737	60%	+0.011 million
Age 18 to 64	179,309,053	88%	152,543,878	75%	+0.067 million
Age 65 and over	59,250,659	100%	51,793,318	95%	+0.016 million

Immunity	Full	Partial
US	66.8%	78.1%
UK	73.4%	78.5%
France	78.4%	80.7%
Spain	86.7%	88.2%
Germany	76.9%	77.0%
Italy	79.4%	84.1%
Australia	83.9%	86.6%
Israel	66.1%	72.2%
Canada	82.5%	86.0%
Japan	81.1%	82.3%
Africa	18.3%	23.6%
India	64.7%	72.8%
Brazil	78.6%	86.1%
China	87.1%	89.4%

Global data differs due to sources, timing



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

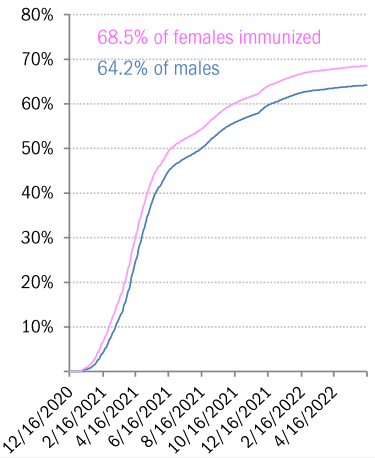
"Immunity" = two doses

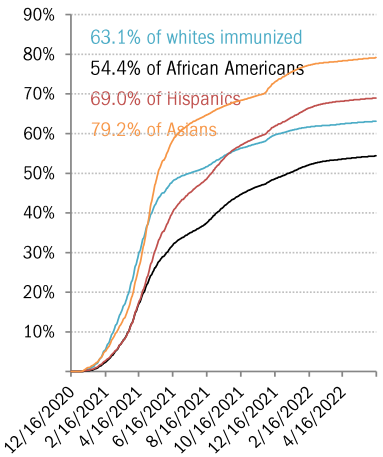
Best
Middle
Worst

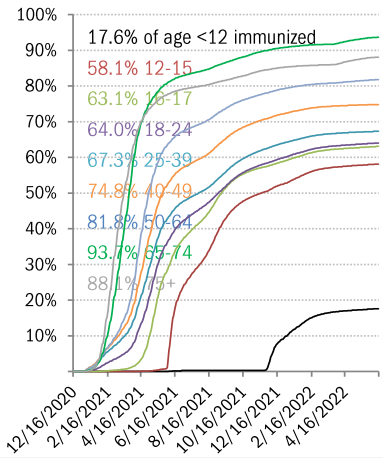
As of Jun 15

					WI					ME
					72.3%					91.5%
					66.0%					80.3%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
81.4%	62.1%	65.7%	66.0%	75.5%	76.4%	67.4%		90.8%	94.3%	89.2%
73.1%	55.7%	57.2%	55.9%	69.6%	69.1%	60.6%		77.6%	81.8%	71.3%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
78.4%	75.9%	58.5%	77.5%	68.3%	62.4%	63.6%	85.8%	91.1%	95.0%	
70.1%	61.3%	51.2%	62.4%	62.3%	56.3%	58.7%	69.3%	76.3%	79.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
82.7%	72.5%	79.9%	70.7%	66.6%	66.6%	65.4%	86.4%	87.2%	95.0%	95.0%
72.8%	64.6%	70.8%	64.0%	56.5%	57.8%	58.0%	73.9%	76.3%	80.0%	83.6%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	73.9%	88.7%	72.9%	67.3%	62.6%	85.5%	68.2%	95.0%	83.9%	
	62.2%	71.8%	62.5%	54.9%	54.9%	62.3%	57.5%	75.9%	69.9%	
			OK	LA	MS	AL	GA			
			71.6%	61.4%	60.0%	63.1%	65.9%			
			57.8%	53.8%	52.2%	51.5%	55.3%			
HI			TX					FL		PR
88.0%			74.0%					80.0%		95.0%
78.8%			62.1%					67.5%		83.5%

The demographics of US vaccination



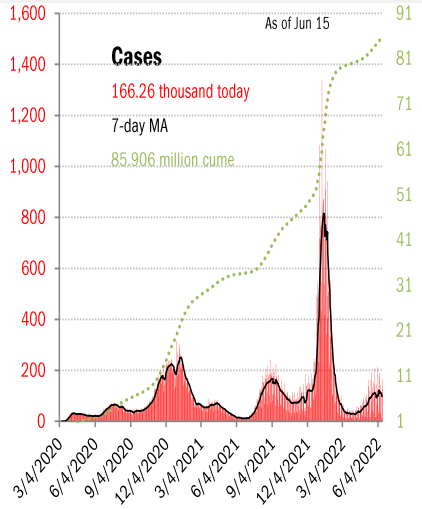


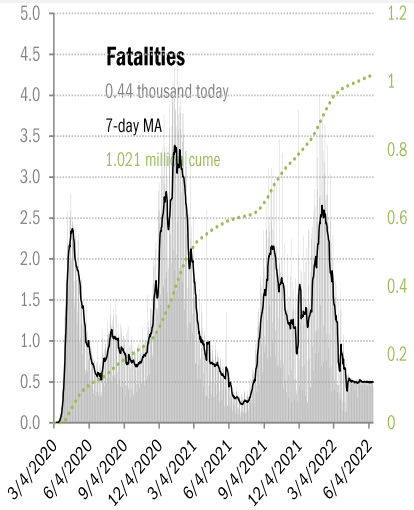


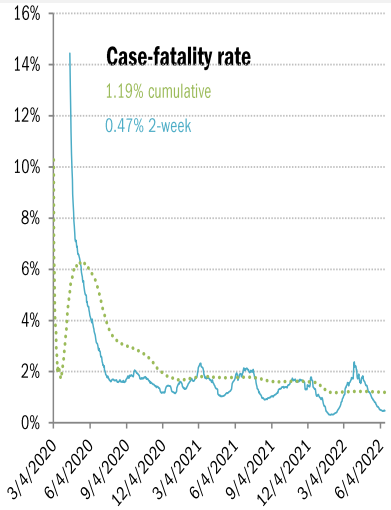
Source: CDC, CDC, Our World in Data, TrendMacro calculations

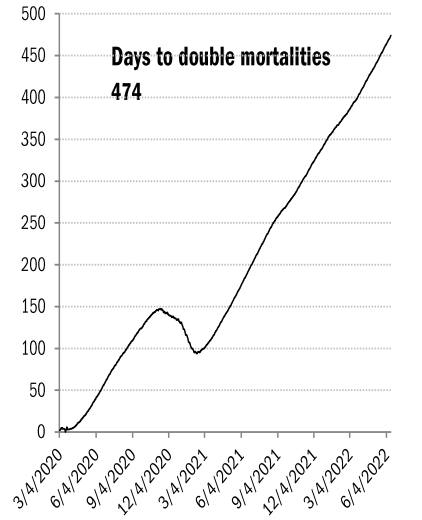
US deep-dive

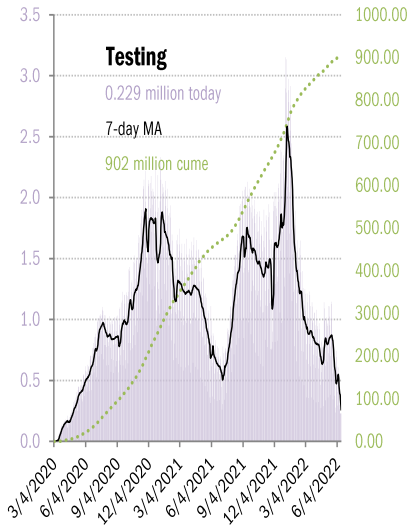
National and state-by-state data do not line up because of different sources

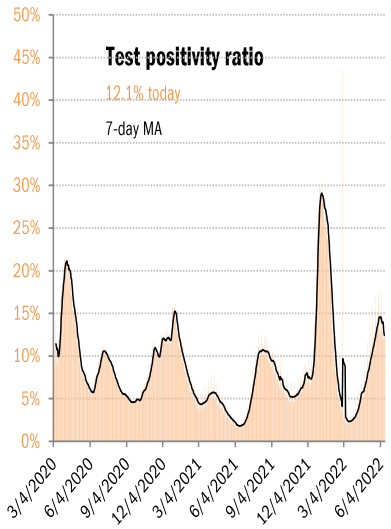


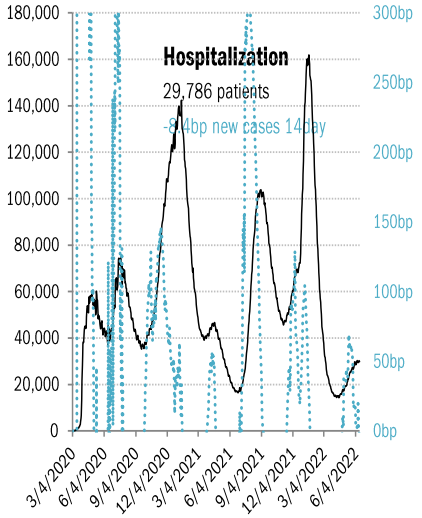


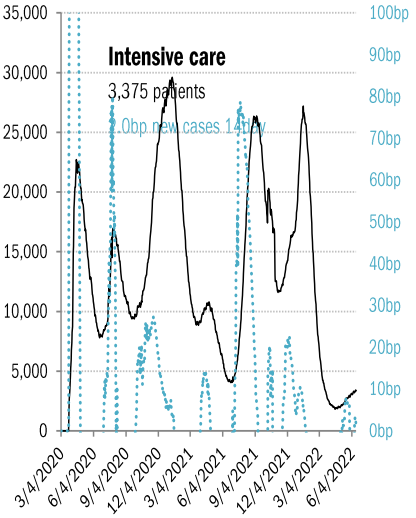


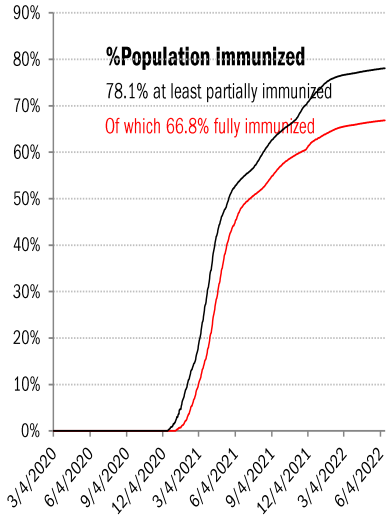












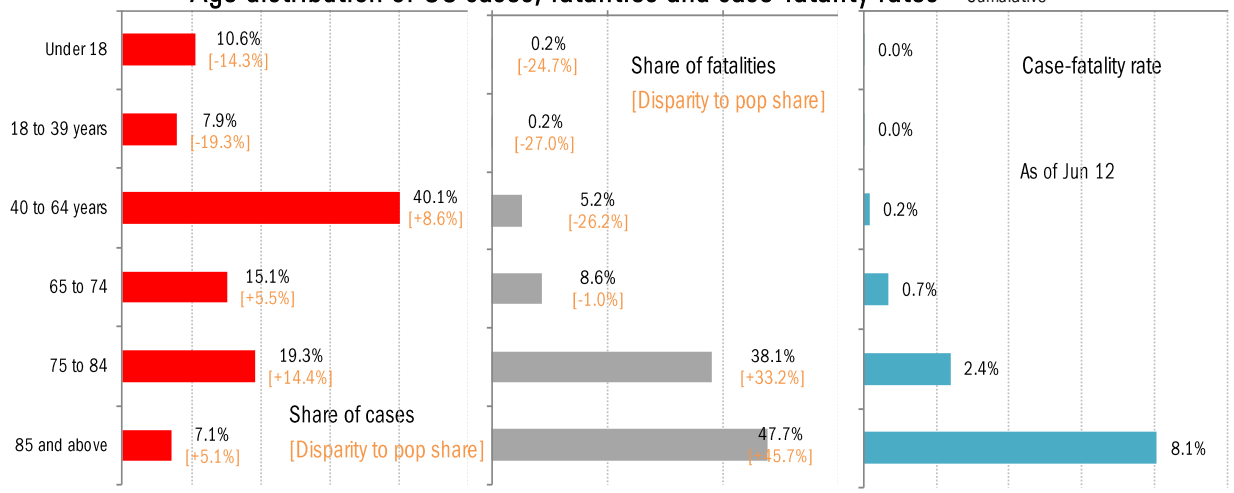
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

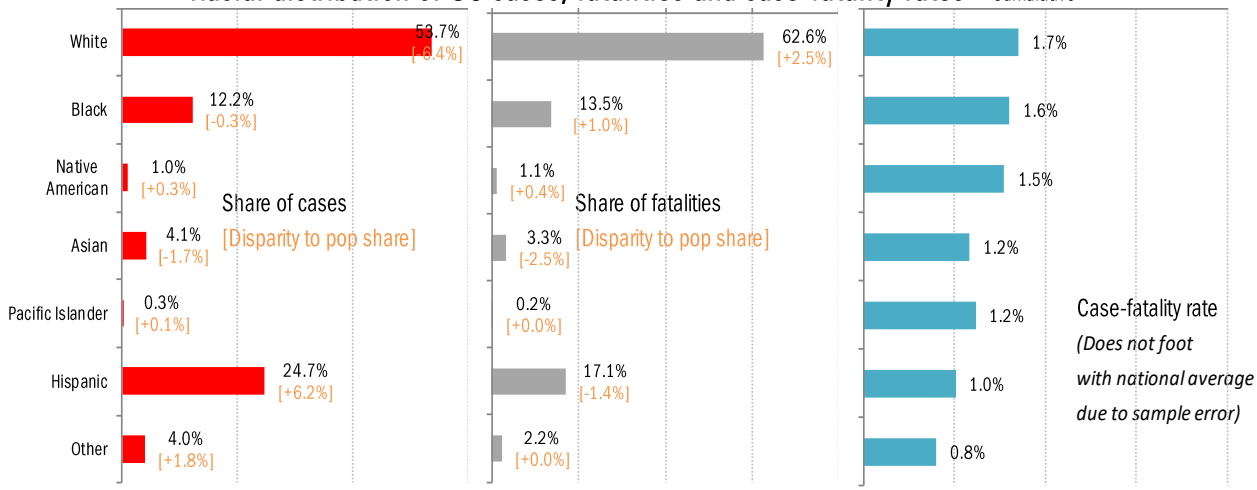
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



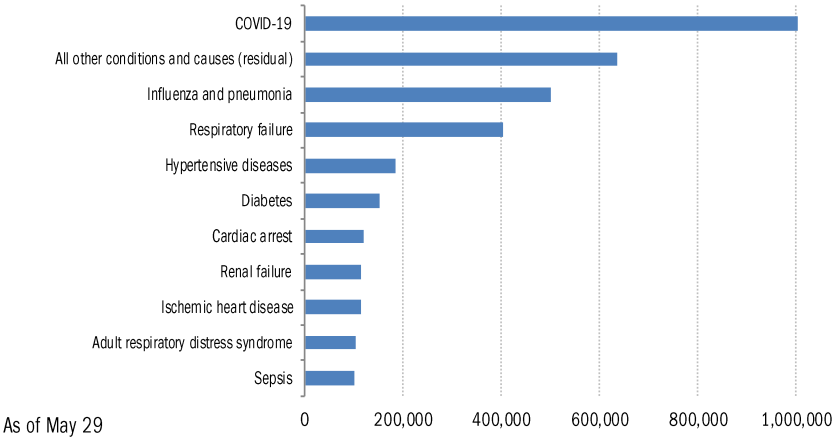
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of May 29

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

NIAID Director Fauci Tests Positive for COVID-19
National Institutes of Health
June 15, 2022

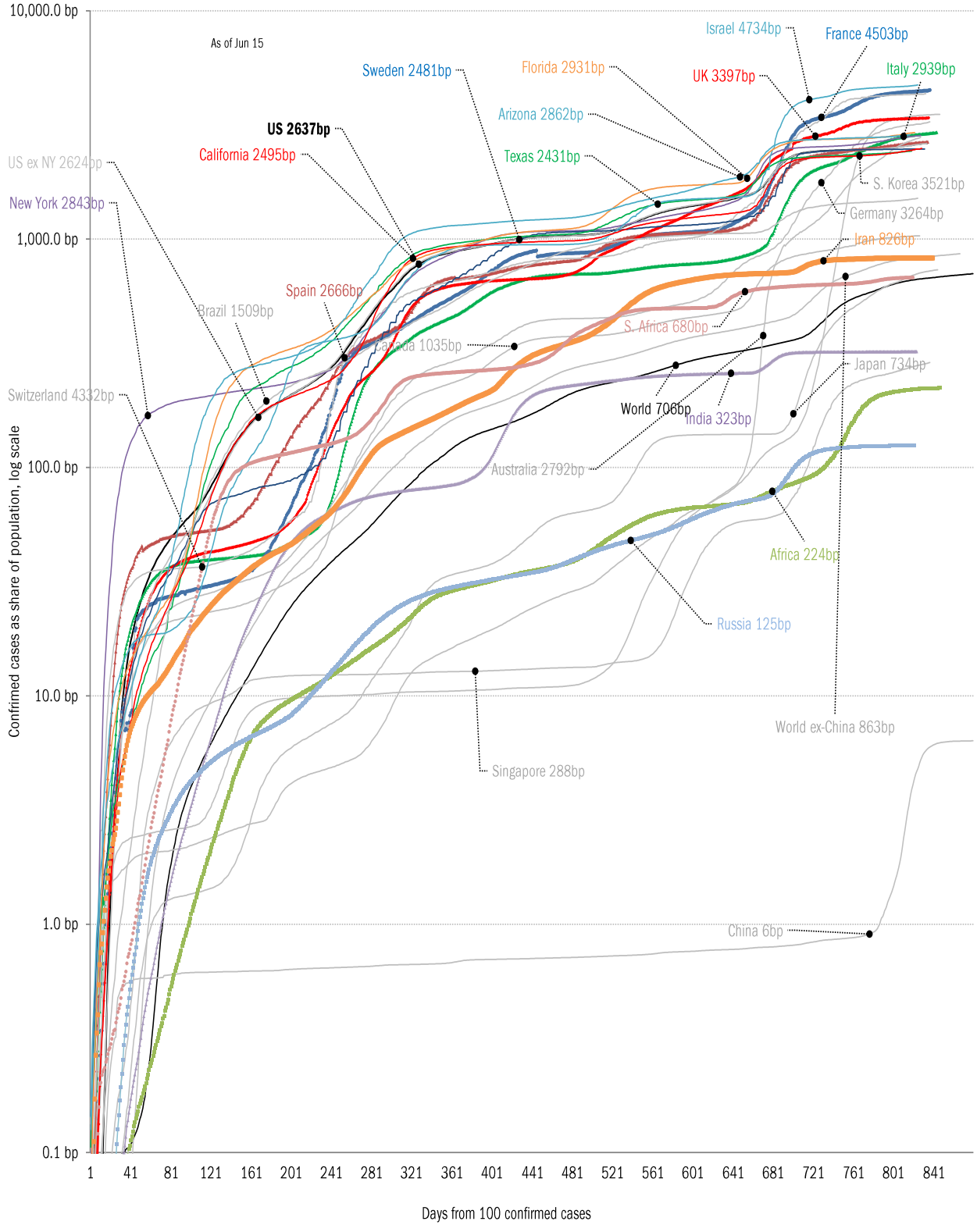
FDA advisers endorse emergency use of Moderna Covid-19 vaccine in babies, toddlers
Lauren Gardner
Politico
June 15, 2022

Meme of the day

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

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

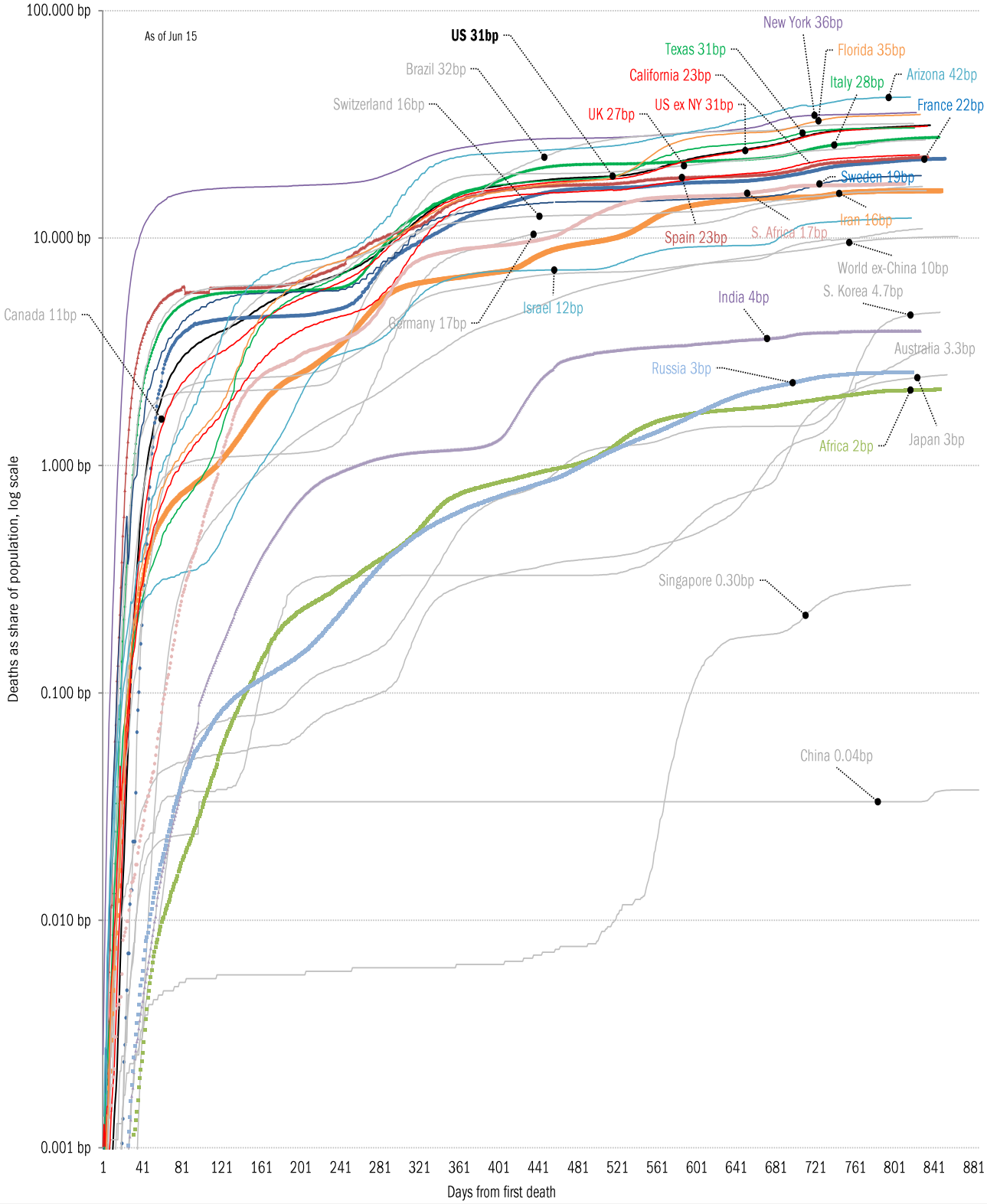
Share of infected population from first day with 100 confirmed cases, log scale



Source: Johns Hopkins, TrendMacro calculations

The global coronavirus mortality accelerometer … tracking the world's fatality curves

Share of deceased population from day of first fatality, log scale

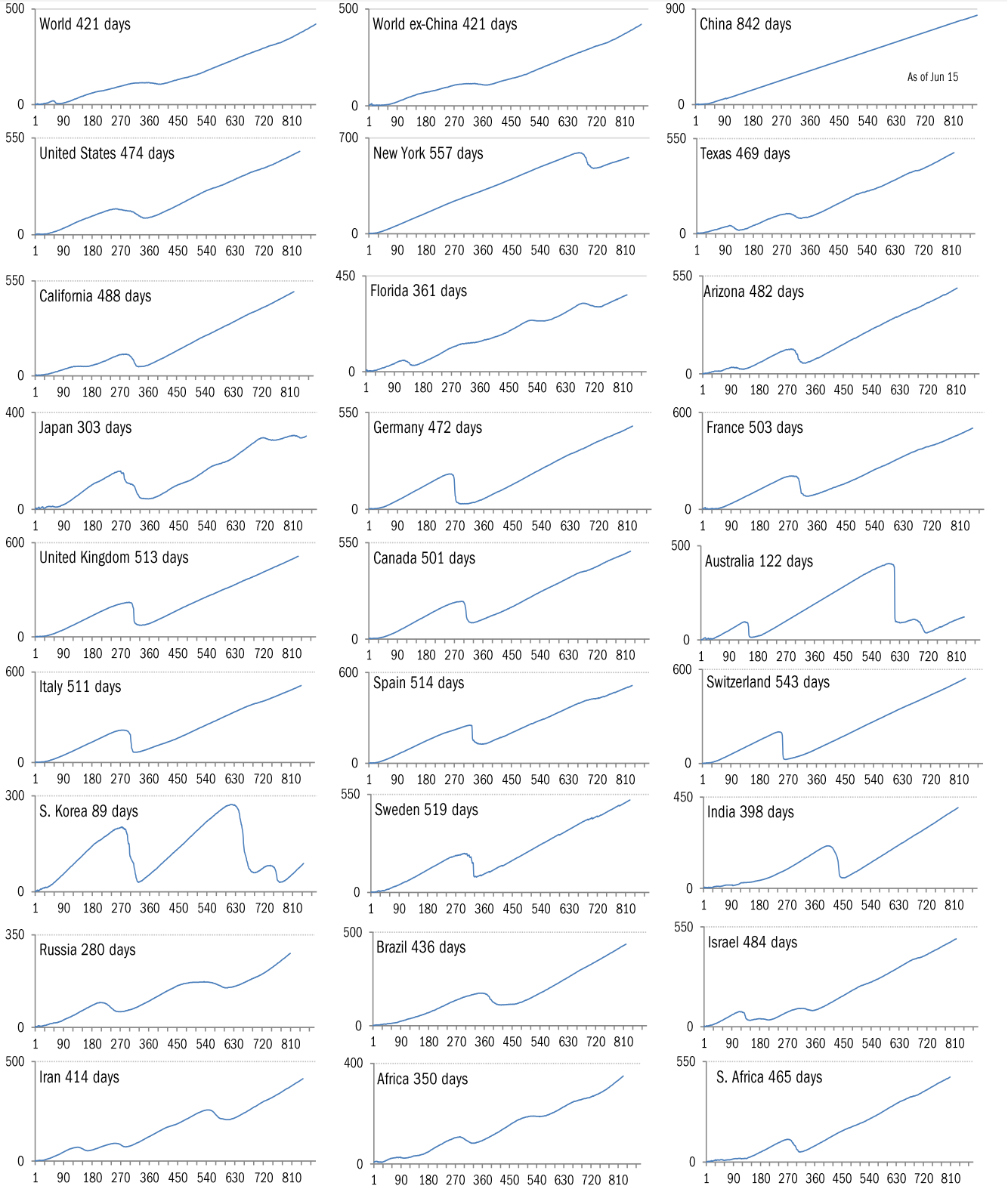


Source: Johns Hopkins, TrendMacro calculations

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

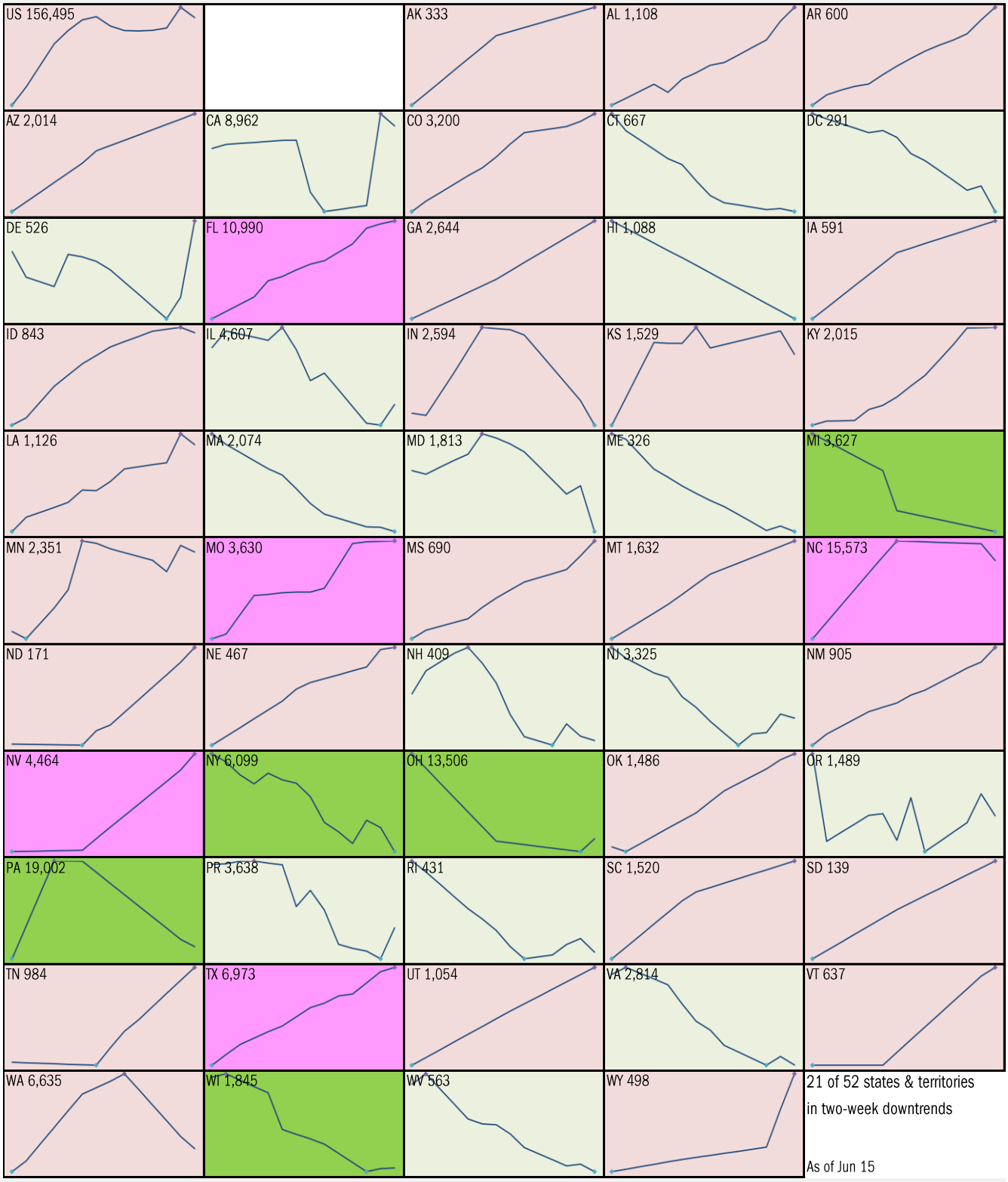


Source: Johns Hopkins, TrendMacro calculations

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

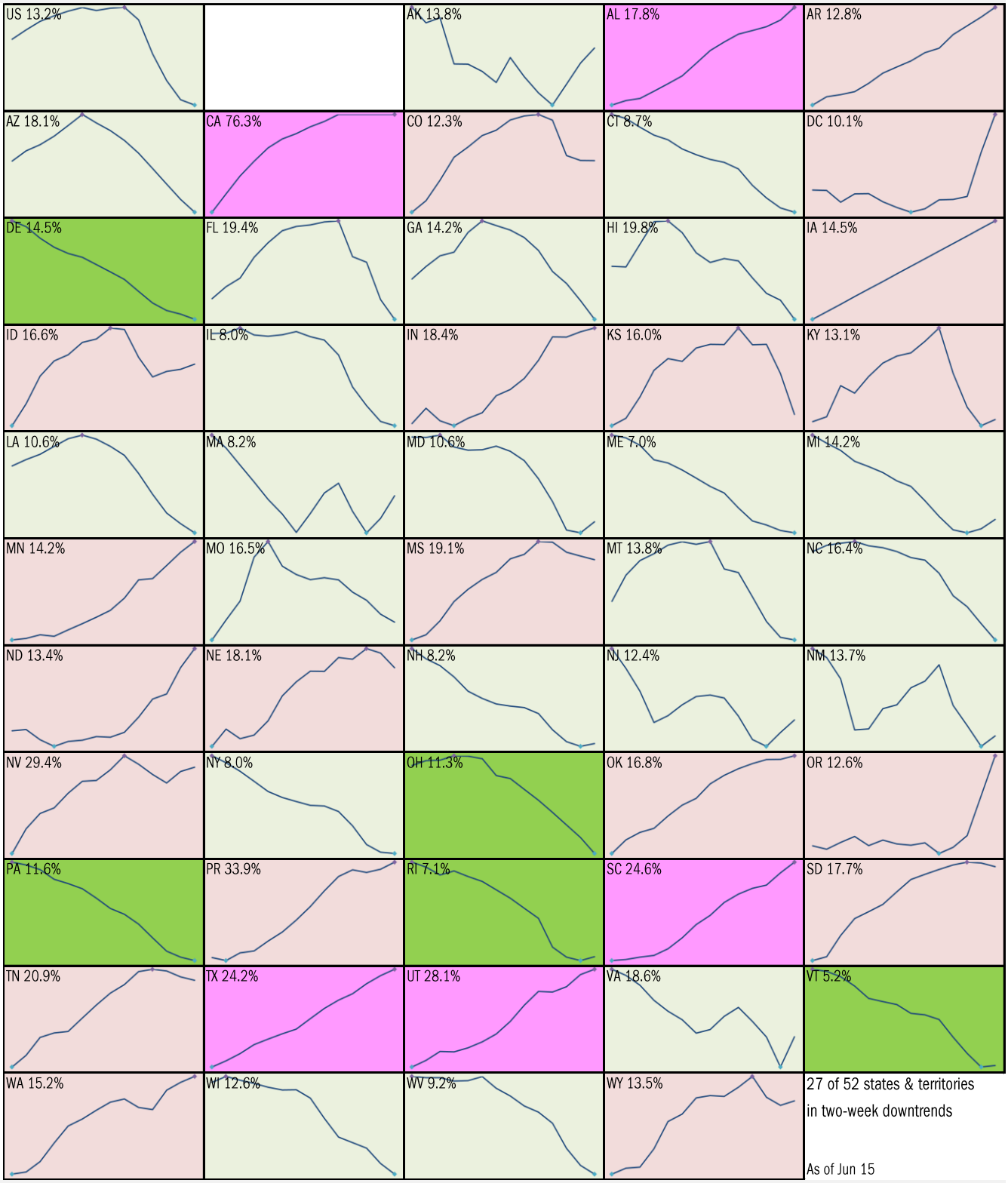


Source: Johns Hopkins, TrendMacro calculations

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

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

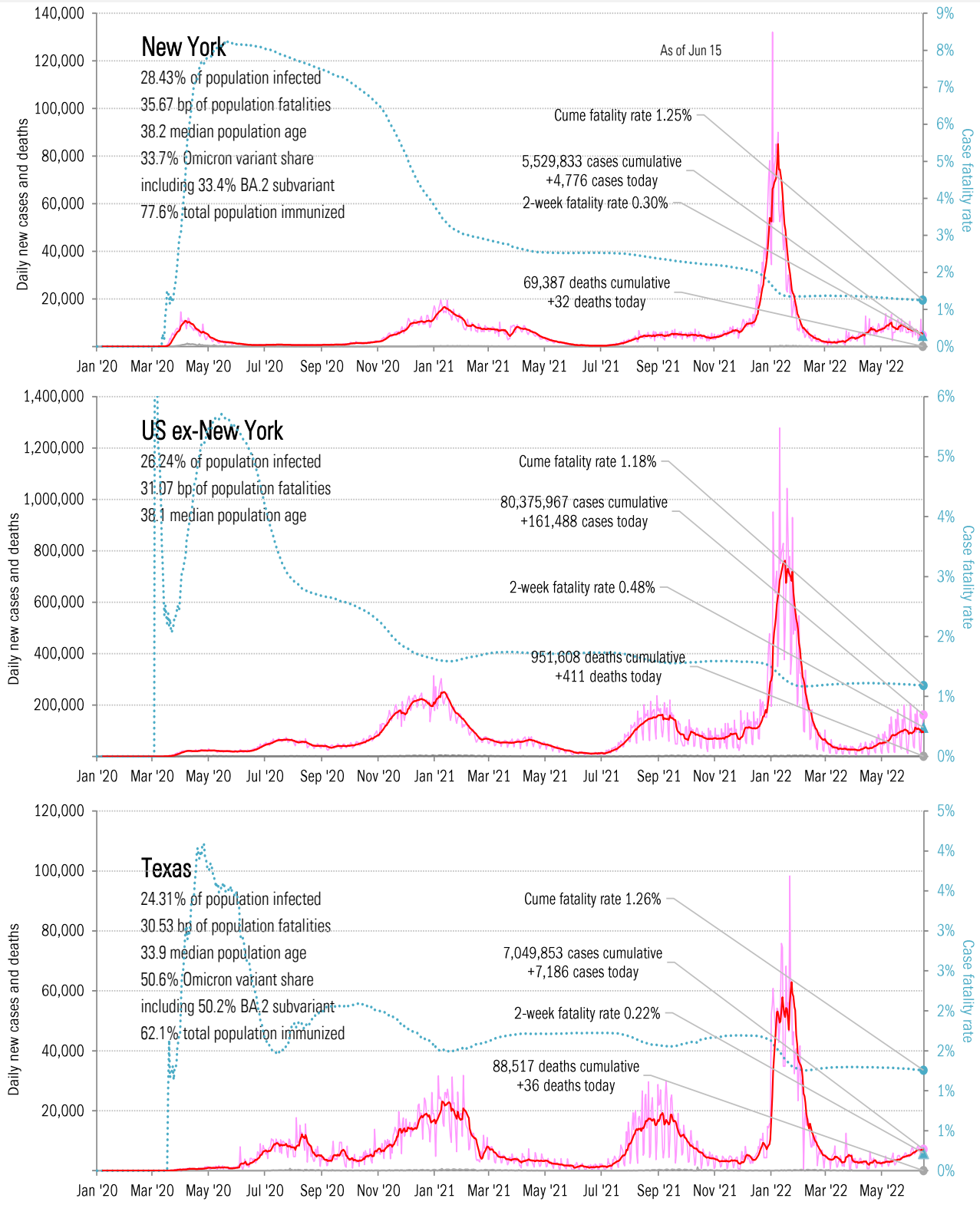
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

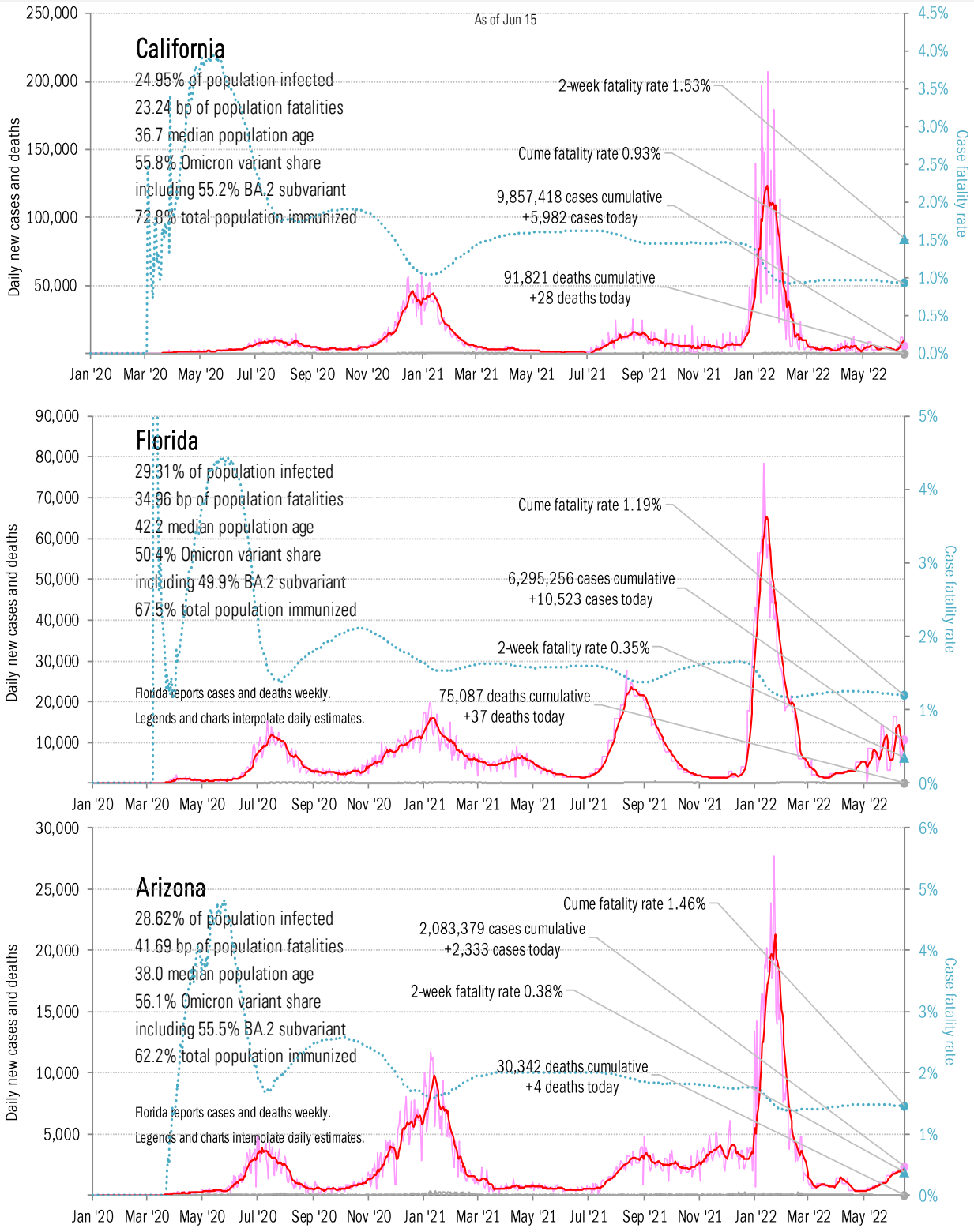
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

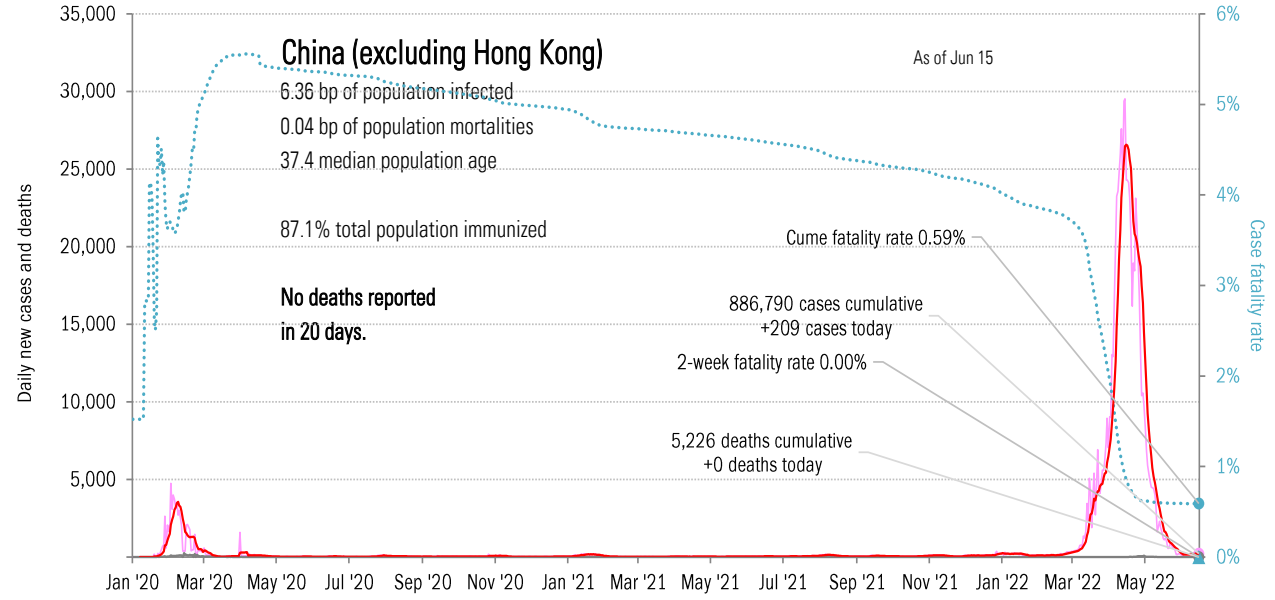
Cases: 7-day average and daily Deaths: Daily

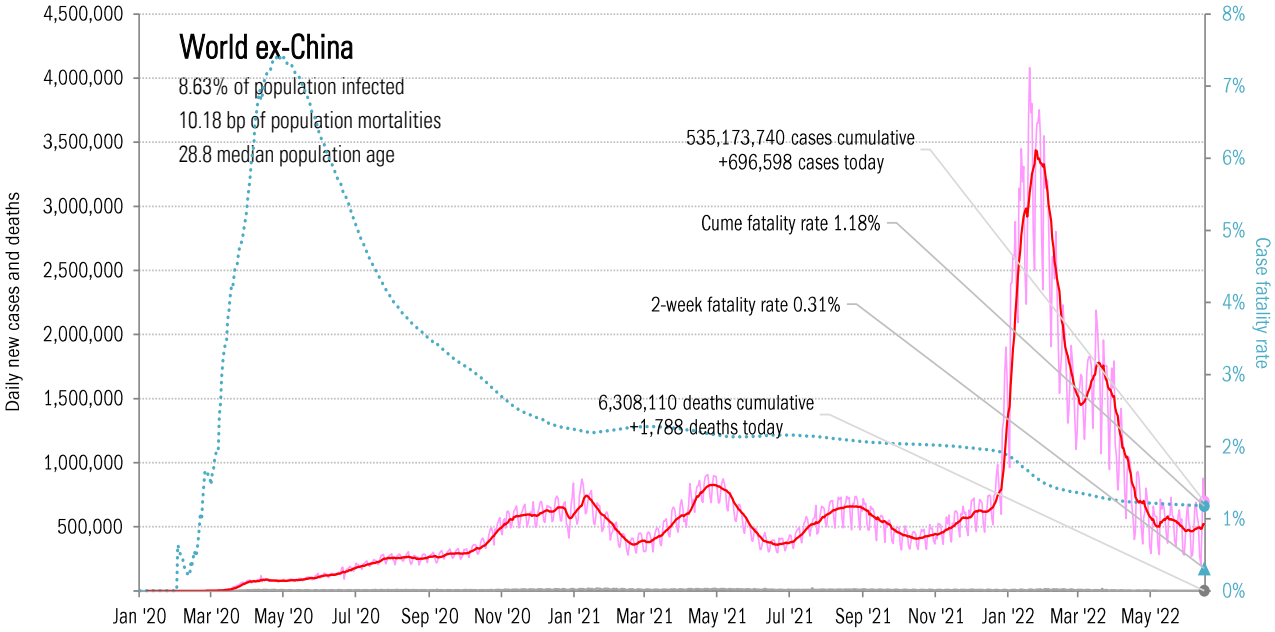


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

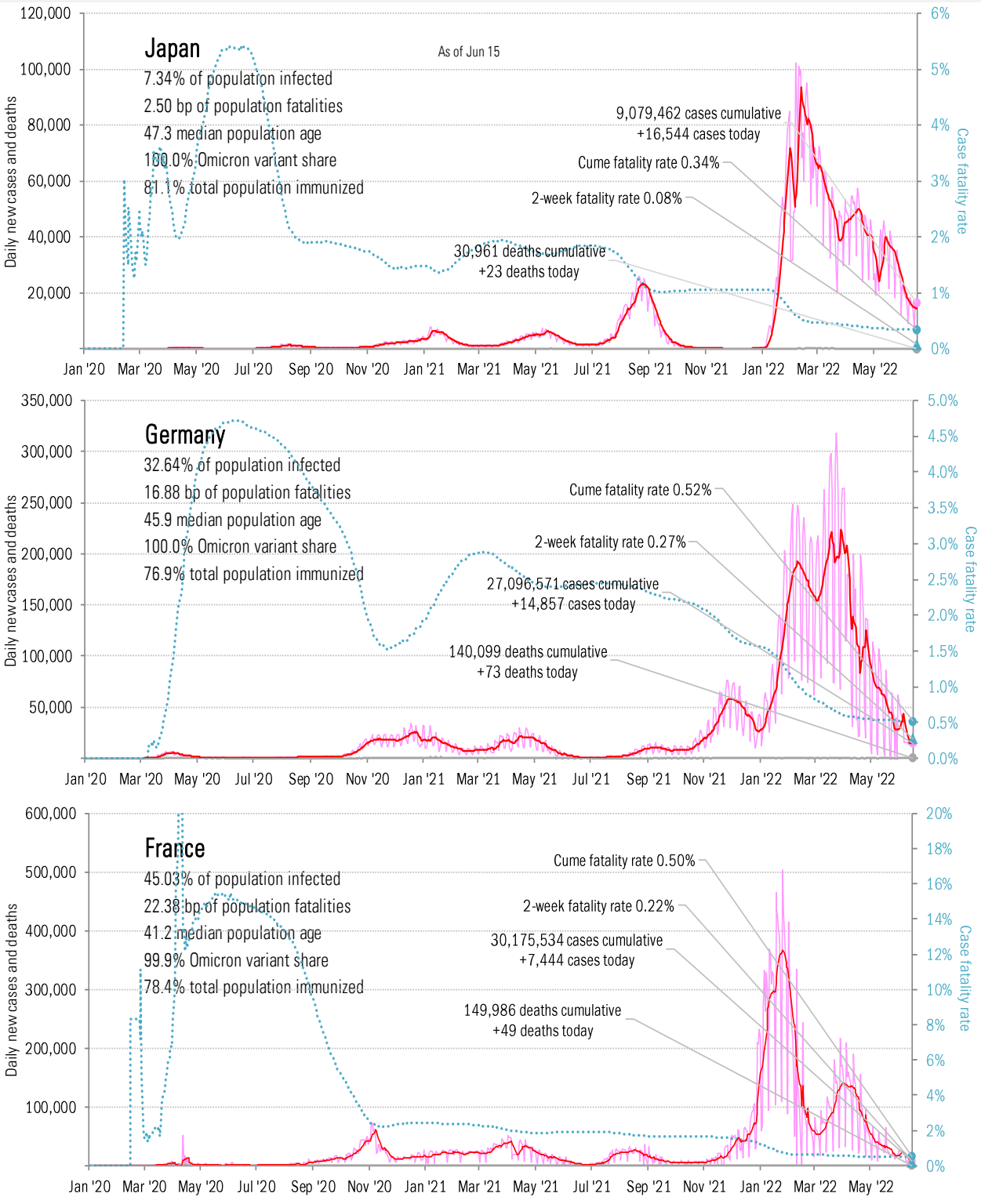




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

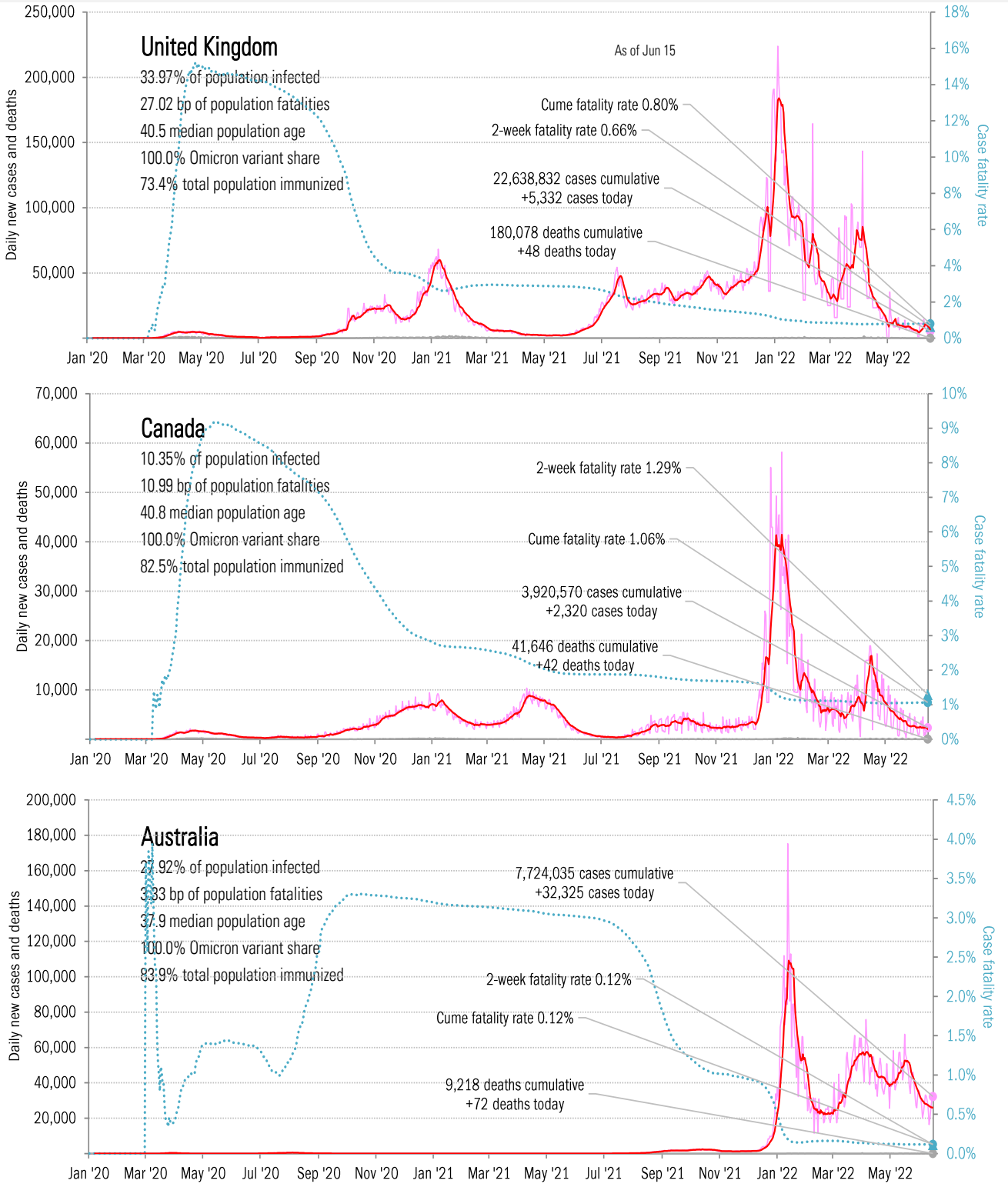
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

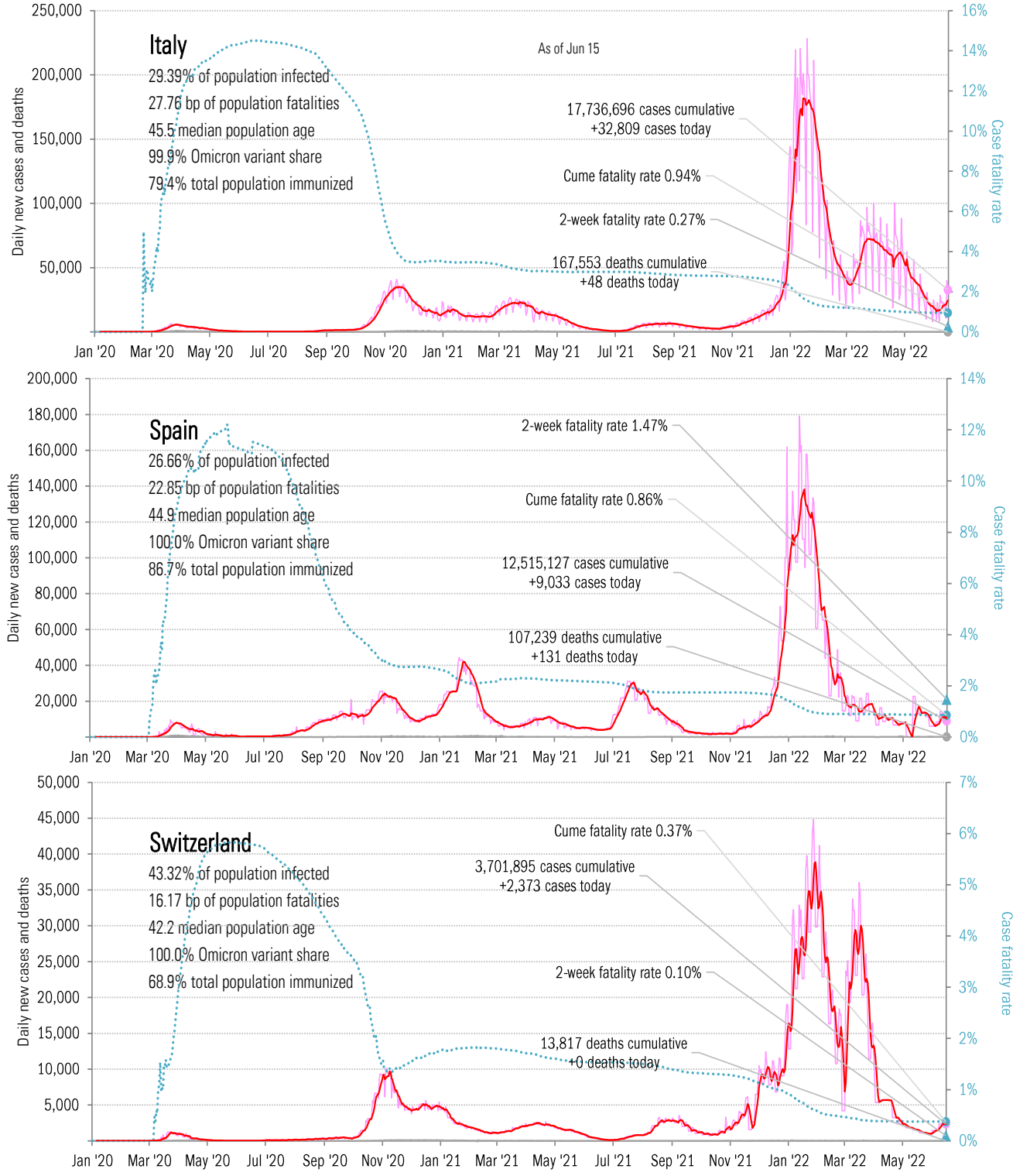
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

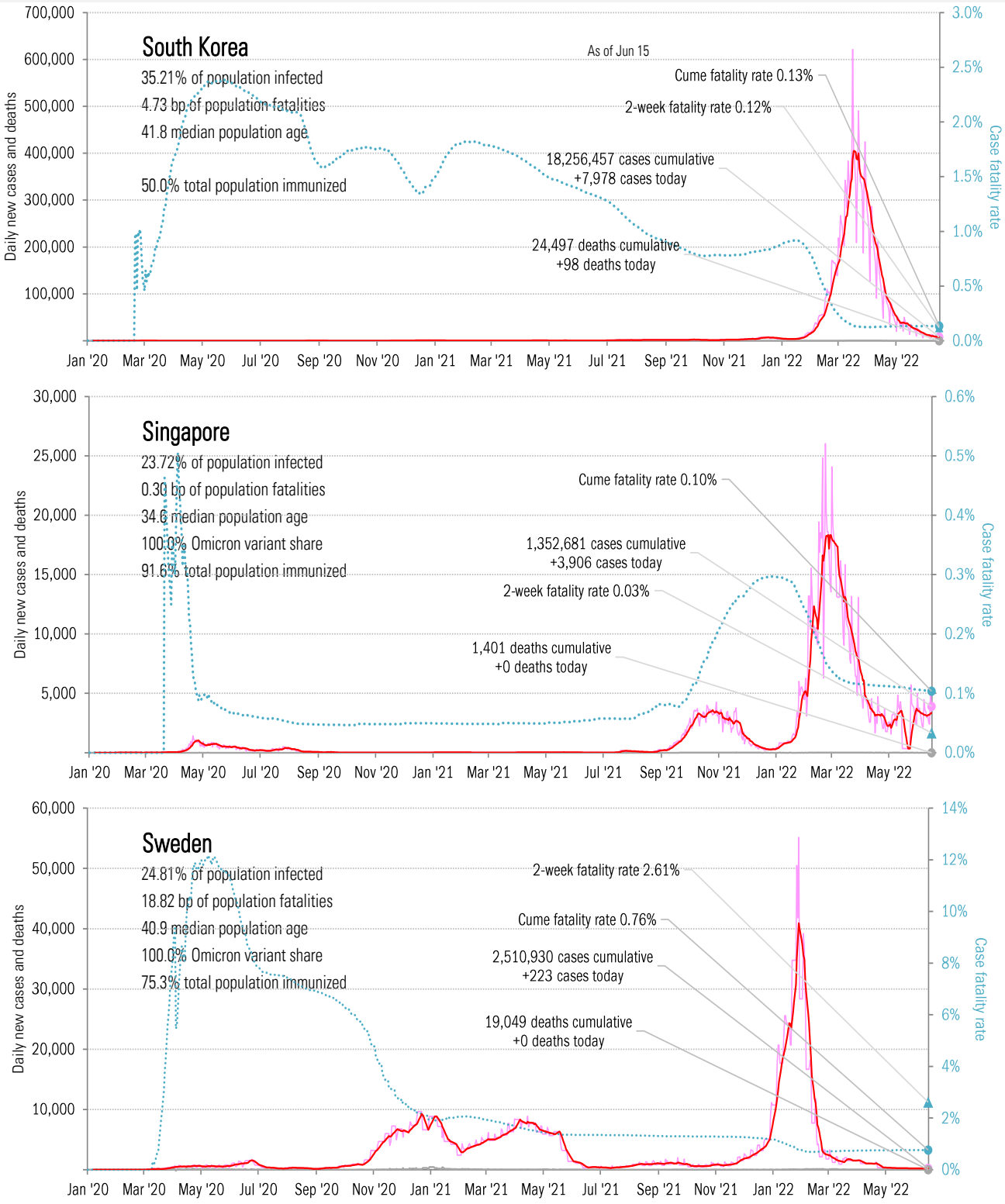
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

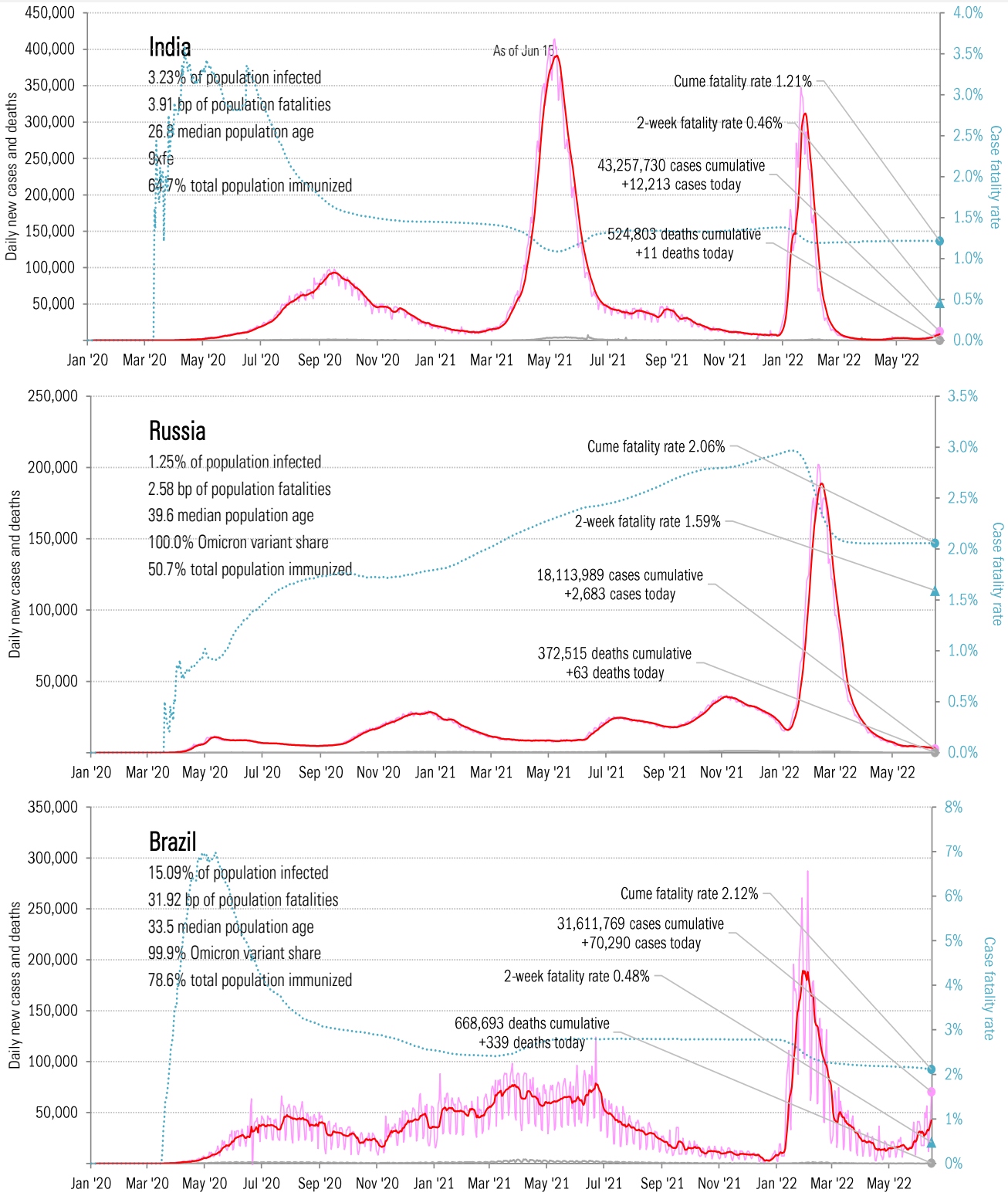
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

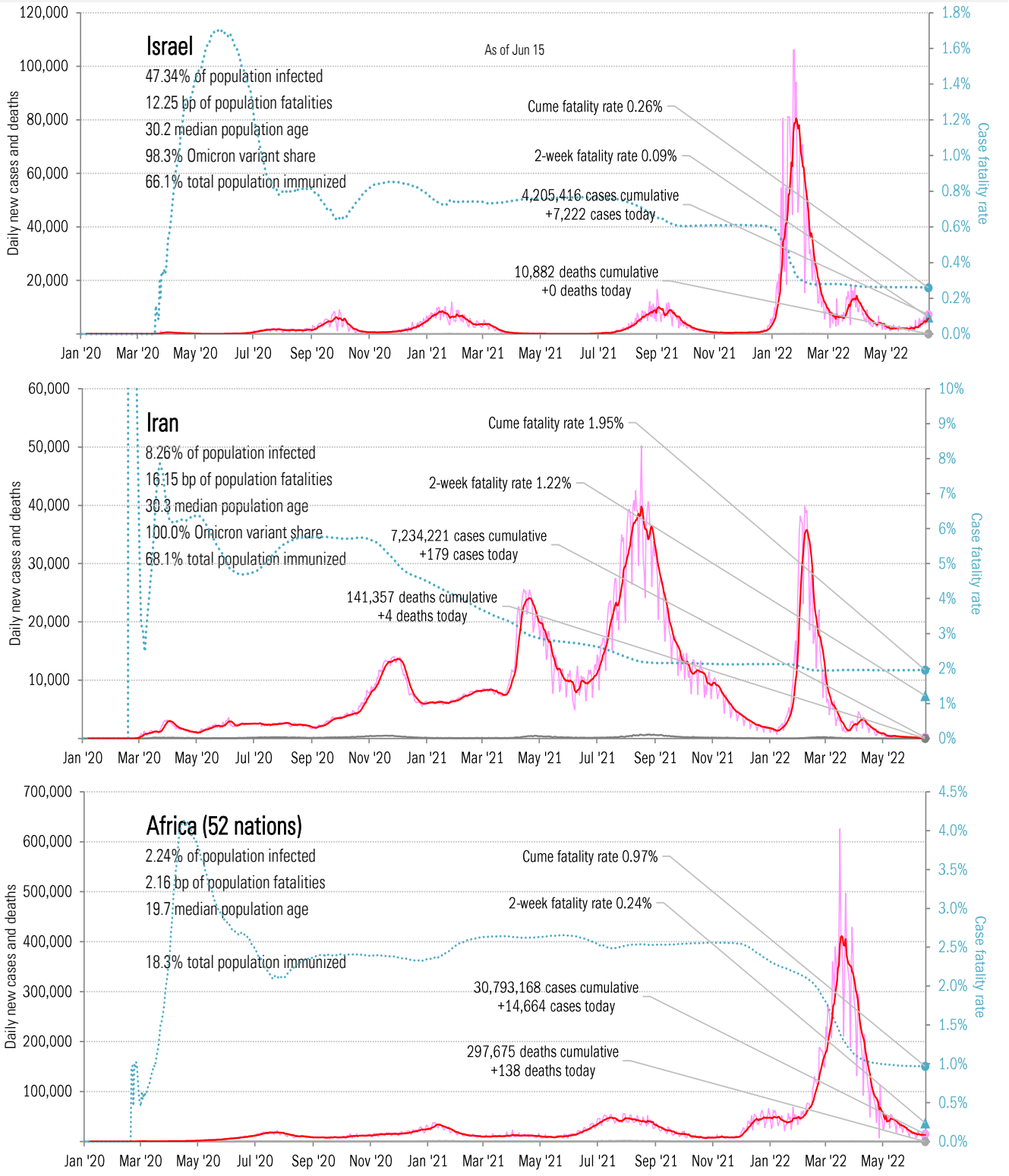
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

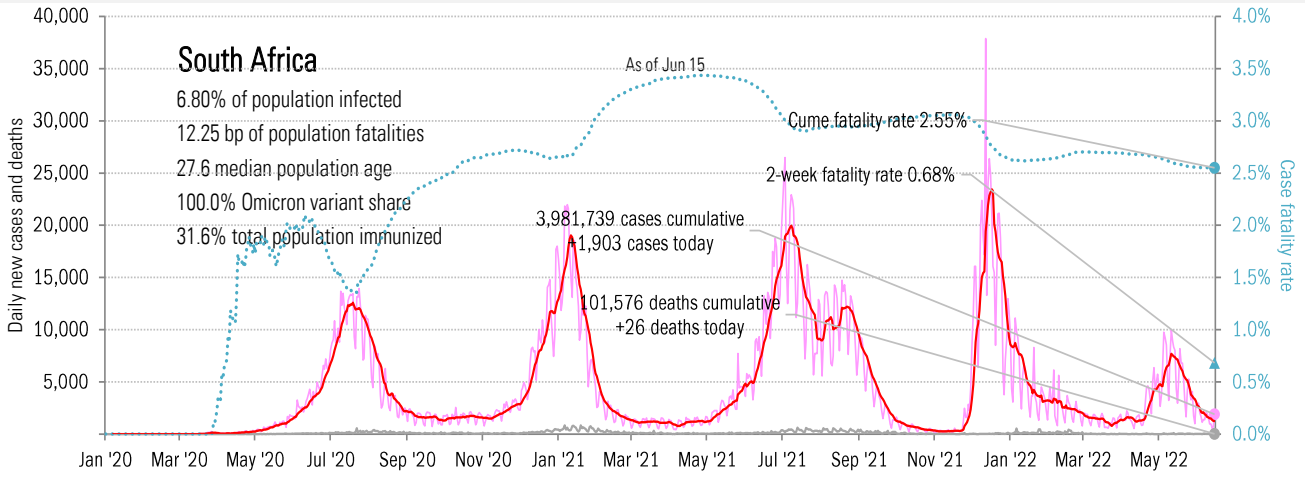
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations