Trend Macrolytics, LLC
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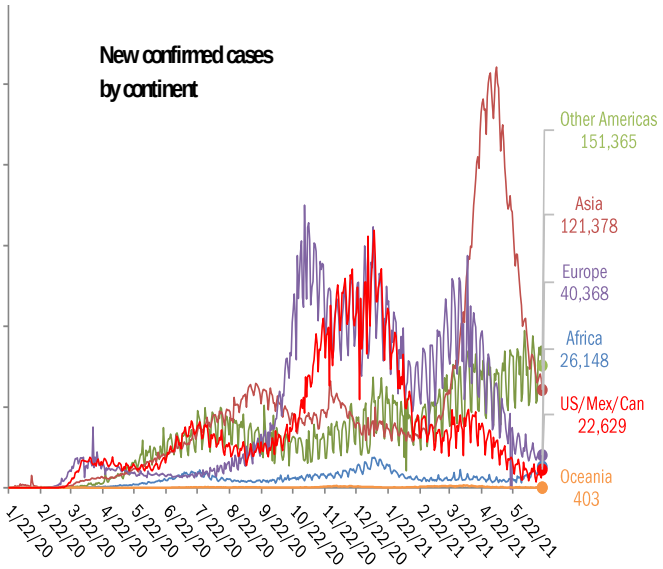
Data Insights: Covid-2019 Monitor

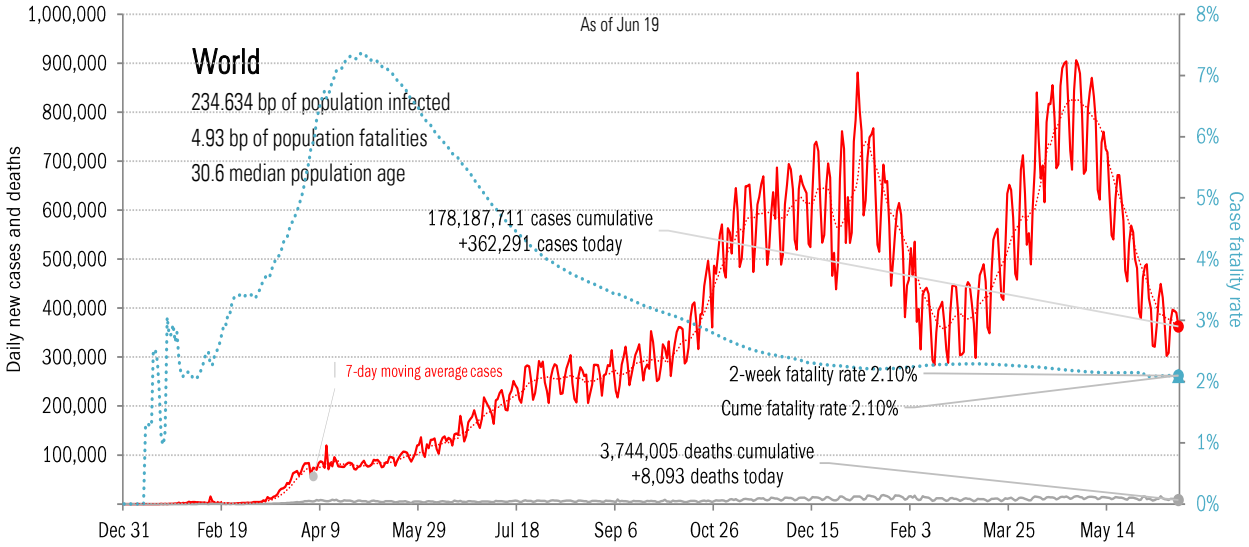
Sunday, June 20, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
Brazil	+82,288	Brazil	+2,301
India	+58,226	India	+1,571
Colombia	+28,734	Colombia	+589
United States	+21,820	Argentina	+495
Russia	+17,679	Russia	+461
Argentina	+15,631	Indonesia	+248
South Africa	+13,575	United States	+170
Indonesia	+12,906	Bolivia	+164
United Kingdom	+10,076	Philippines	+153
Philippines	+6,944	South Africa	+149
	+267,879		+6,301
World	+362,291	World	+8,093
Top ten	74%	Top ten	78%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

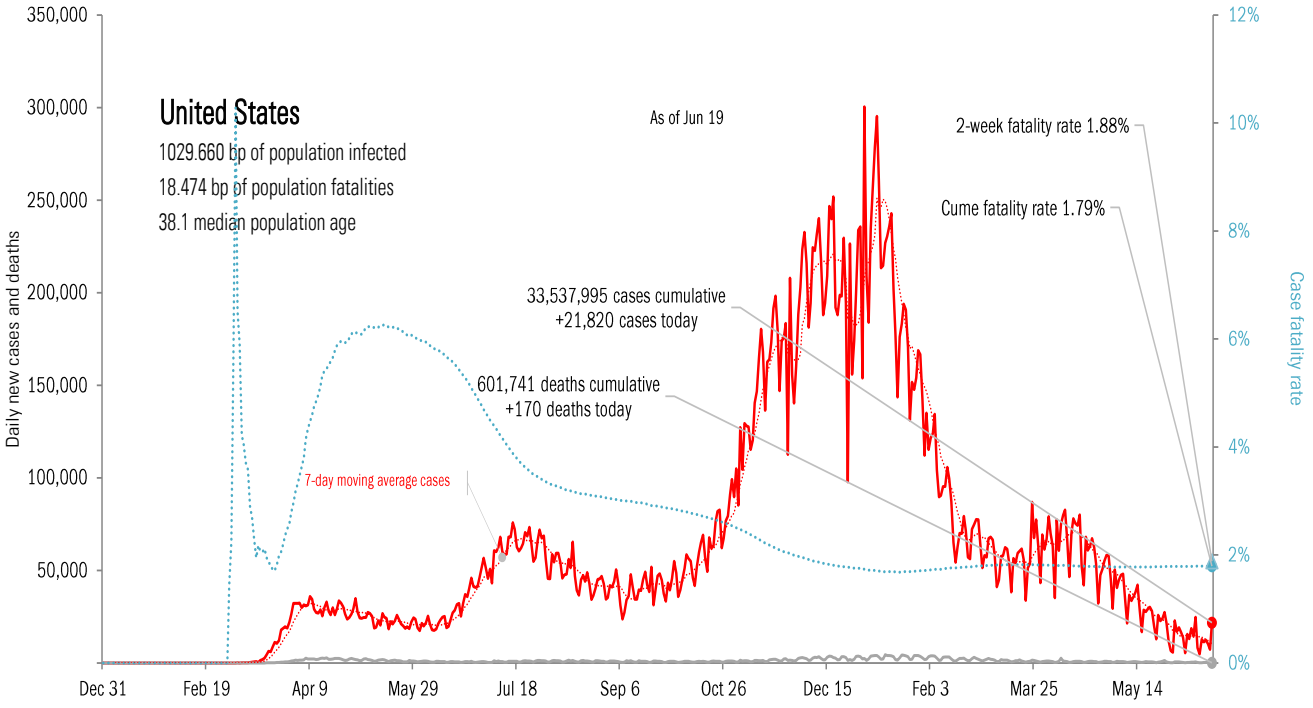
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	+1,900	FL	+76	KY	+89	CA	3,807,726	CA	63,308	TX	252,386	RI	92%	MO	14%
TX	+1,752	CA	+34	GA	+48	TX	2,985,388	NY	53,604	CA	239,030	MA	85%	WY	14%
CA	+1,261	IN	+29	AR	+15	FL	2,346,620	TX	52,098	FL	184,986	MO	82%	UT	11%
AZ	+641	GA	+27	IL	+11	NY	2,111,556	FL	37,341	NY	136,011	PA	82%	CO	11%
MO	+616	AZ	+16	MO	+7	IL	1,388,634	PA	27,559	GA	108,528	CA	81%	ID	10%
IN	+540	TX	+15	NV	+7	PA	1,214,795	NJ	26,372	PA	91,346	MD	81%	AR	10%
WA	+521	CO	+9	AZ	+6	GA	1,130,845	IL	25,566	OH	87,353	CT	81%	WA	9%
CO	+396	NY	+7	CA	+6	OH	1,108,736	GA	21,319	IL	82,191	MN	79%	OK	8%
NY	+394	MD	+5	CT	+6	NJ	1,021,038	MI	20,862	KY	77,454	MI	78%	TX	8%
GA	+377	MN	+5	UT	+6	NC	1,010,113	OH	20,166	#N/A	0	FL	78%	NV	8%
	+8,398		+223		+201		18,125,451		348,195		1,259,285				
All states	+10,420		+246		+17	All states	33,537,995		601,741		2,372,046	All states	70%		67%
Top ten	81%		91%		1182%	Top ten	54%		58%		53%	Median	73%		5%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NV	-385	OH	-44	TX	-88	DC	+40 bp
AL	-334	TX	-28	FL	-22	DE	+40 bp
LA	-326	NC	-20	IN	-16	VT	+40 bp
MO	-303	AL	-18	AL	-14	CO	+30 bp
TN	-277	IL	-14	TN	-14	CT	+30 bp



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

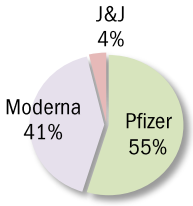
Rolling out the vaccines in the US and the world

US overall	Total				Today
Doses distributed	392,589,985				+1.069 million
Doses administered	326,531,024				+1.088 million
Administered	**One dose**	**% Pop**	**Immune**	**% pop**	**New immune today**
Total population	181,325,767	54%	153,192,960	46%	+0.677 million
Age 12 to 17	8,073,303	32%	5,503,933	22%	+0.157 million
Age 18 to 64	123,779,366	61%	103,916,067	51%	+0.451 million
Age 65 and over	49,329,255	90%	43,682,364	80%	+0.064 million

Immunity	Full	Partial
US	44.6%	52.9%
UK	45.8%	62.9%
France	24.3%	47.0%
Spain	29.8%	48.5%
Germany	30.2%	50.2%
Italy	25.7%	51.6%
Australia	3.3%	22.2%
Israel	59.5%	63.5%
Canada	18.0%	66.4%
Japan	6.4%	16.4%
Africa	1.0%	2.4%
India	3.6%	16.1%
Brazil	11.4%	29.3%

Global data differs from sources, timing

China NA



At today's dosing pace,
every American >18 immune in
141 days
by Nov 7, 2021

70.6% of population >18 immunized
14.1% previously tested positive
84.7% vs 60% adult herd immunity*

State
Immunities distributed as % population**
At least partial immunity as % population
Full immunity as % population

Best
Middle
Worst

AK			HI			ME		
60.5%			70.9%			72.3%		
47.7%			69.0%			65.7%		
41.6%			50.7%			59.8%		
					WI	VT	NH	
					54.8%	77.4%	70.7%	
					52.9%	73.0%	61.6%	
					47.7%	63.9%	54.7%	
WA	ID	MT	ND	MN	IL	MI	NY	MA	
64.3%	49.1%	54.8%	48.9%	60.5%	60.7%	61.0%	63.9%	73.1%	
59.9%	39.0%	47.1%	43.4%	56.2%	58.1%	50.7%	58.8%	69.4%	
52.5%	35.1%	41.5%	38.1%	50.0%	44.1%	45.8%	51.8%	59.6%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
70.1%	52.1%	47.3%	57.2%	57.3%	52.3%	55.4%	64.6%	67.7%	69.1%	73.6%
57.6%	48.1%	38.6%	49.8%	50.8%	43.7%	47.6%	61.7%	63.6%	65.9%	63.6%
51.2%	40.2%	33.6%	44.5%	46.8%	38.8%	43.4%	48.2%	54.2%	58.7%	56.9%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
64.8%	52.5%	63.4%	56.3%	51.9%	52.4%	55.5%	63.1%	72.7%	68.4%	
59.9%	47.3%	56.9%	50.1%	44.1%	48.6%	42.4%	58.0%	60.4%	57.1%	
47.9%	35.9%	49.9%	45.1%	38.0%	42.0%	36.1%	50.0%	53.8%	47.7%	
	AZ	NM	KS	AR	TN	NC	SC	DC		
	58.1%	59.1%	55.5%	49.6%	55.8%	58.4%	53.9%	78.5%		
	48.6%	60.4%	48.4%	41.1%	40.8%	44.6%	42.7%	60.1%		
	38.9%	51.9%	40.8%	33.2%	34.3%	38.5%	36.8%	50.5%		
			OK	LA	MS	AL	GA			
			53.3%	45.7%	47.2%	51.4%	54.9%			
			44.0%	37.4%	35.4%	38.9%	42.0%			
			37.2%	33.6%	28.9%	31.8%	34.8%			
			TX				FL		PR	
			57.5%				61.2%		68.0%	
			47.1%				52.3%		55.4%	
			39.4%				43.8%		42.7%	

As of Jun 19

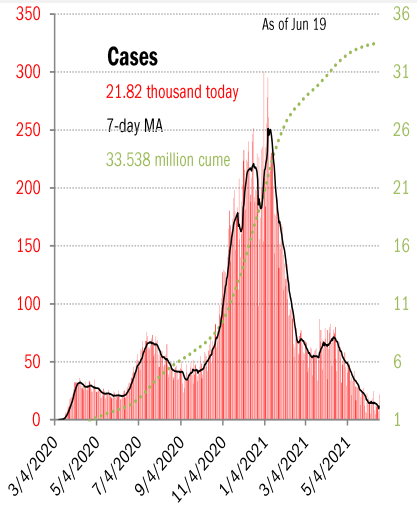
* Includes persons >18 fully immunized or previosuly tested positive, no overlap. Disregards untested positives, natural immunities.

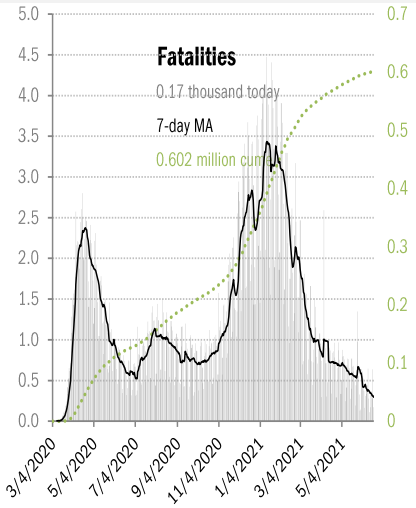
** One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

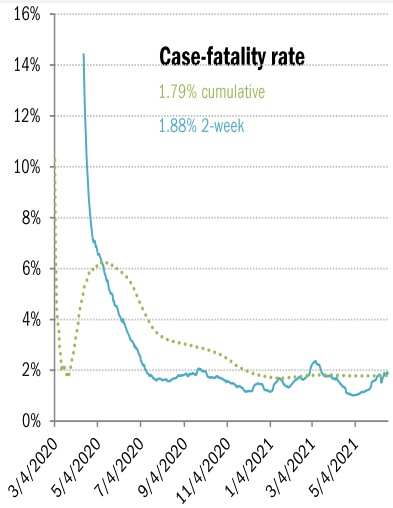
Source: CDC, CDC, Our World in Data, TrendMacro calculations

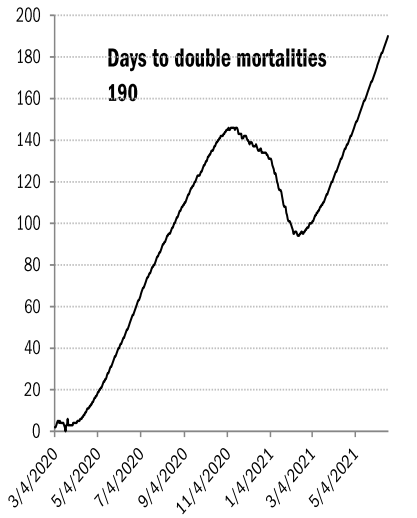
US deep-dive

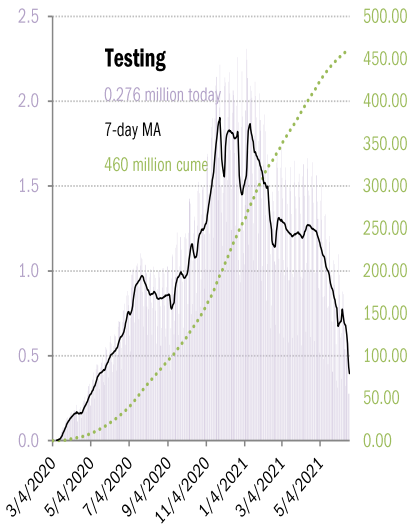
National and state-by-state data do not line up because of different sources

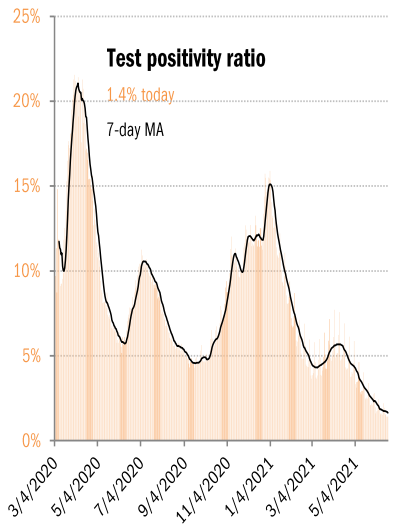


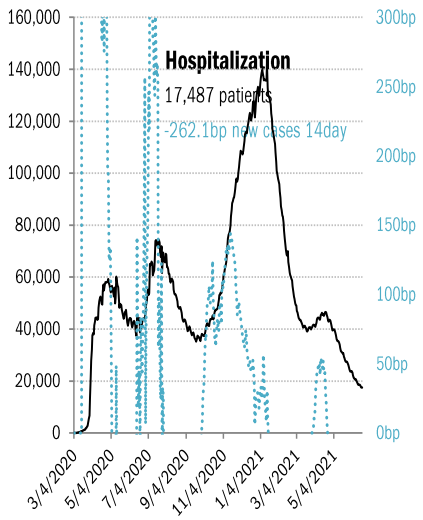


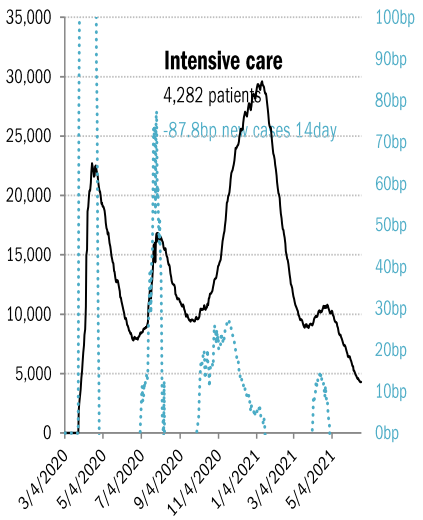


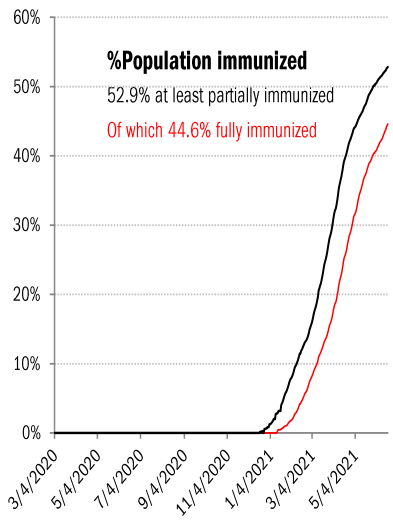












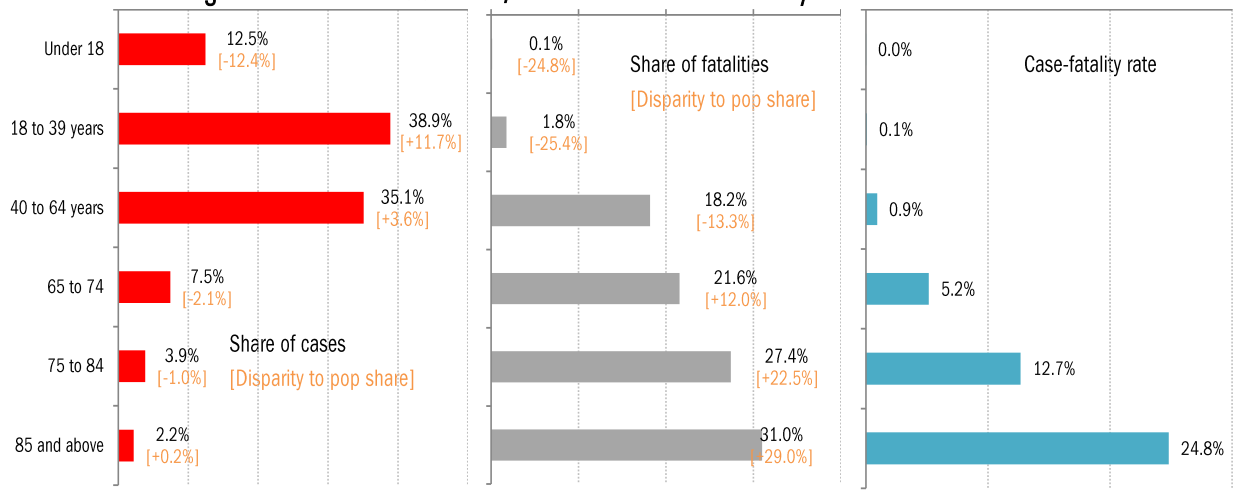
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

US deep-dive on the demographics of age, race and health

Updates weekly on Sundays

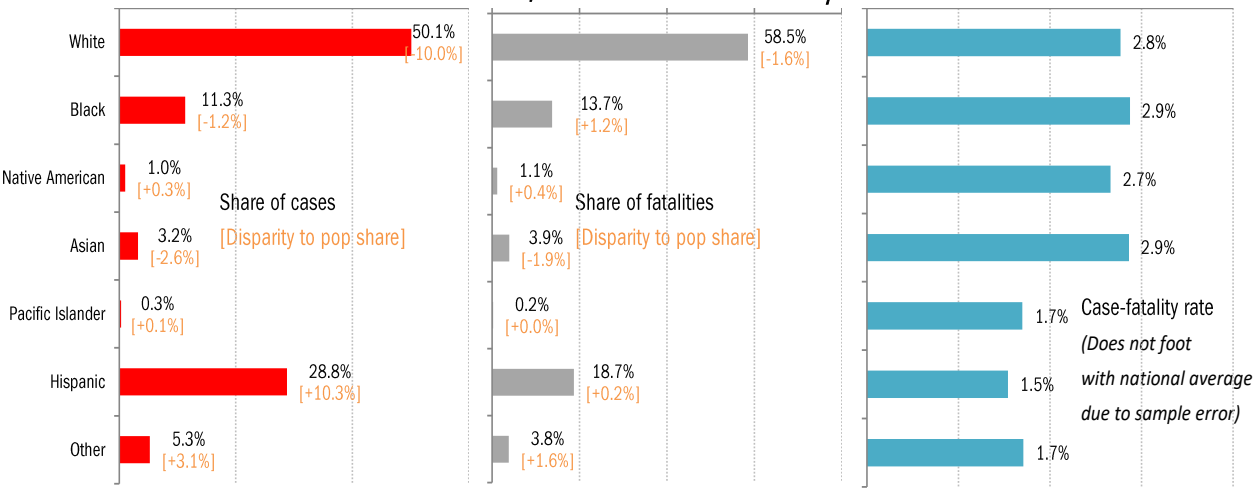
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



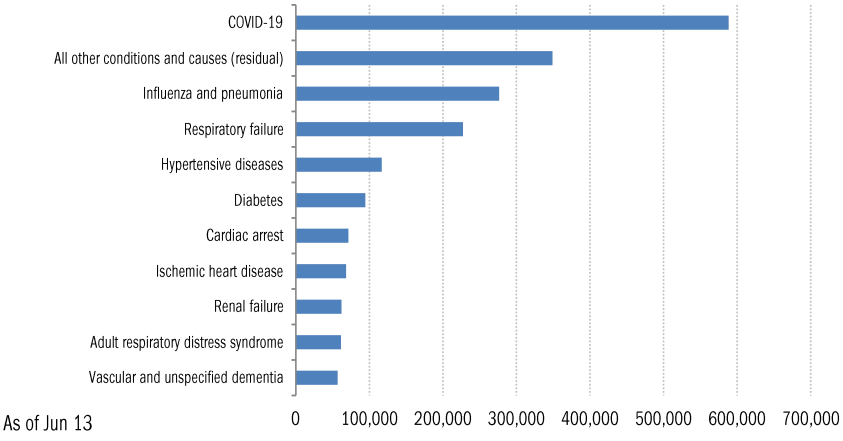
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jun 13

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.

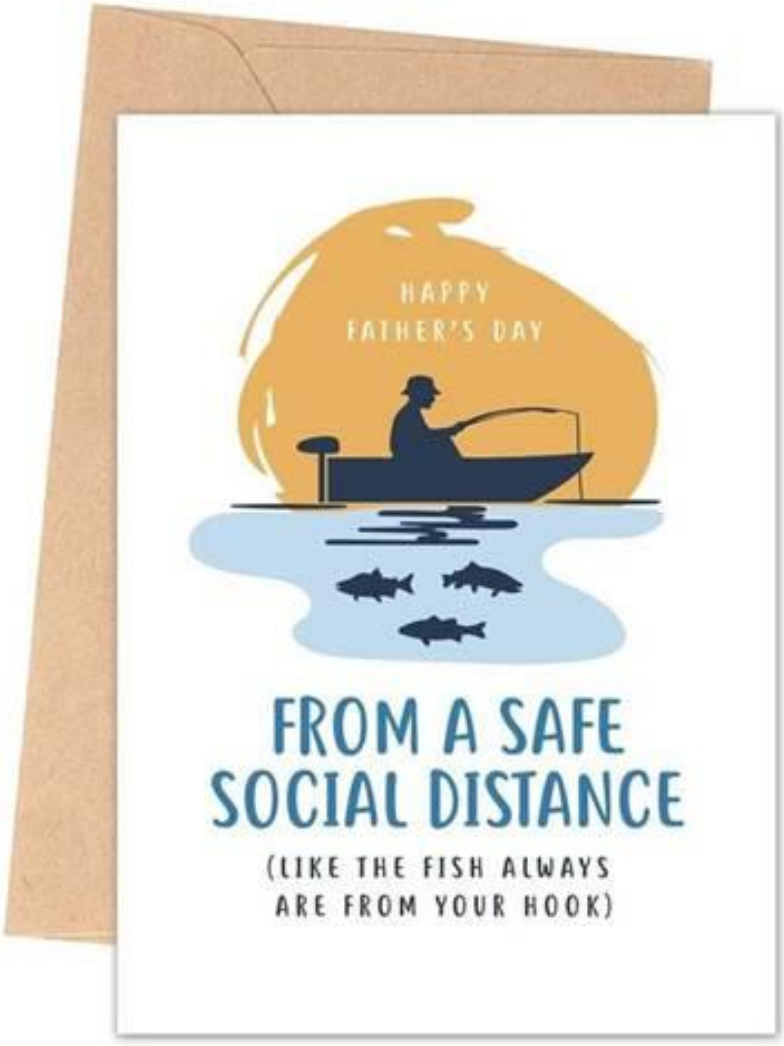
Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

[Distorted, Bizarre Food Smells Haunt Covid Survivors](#)
Deborah Schoch
New York Times
June 15, 2021

[CDC can't regulate cruises: judge](#)
Celin Castronuovo
The Hill
June 19, 2021

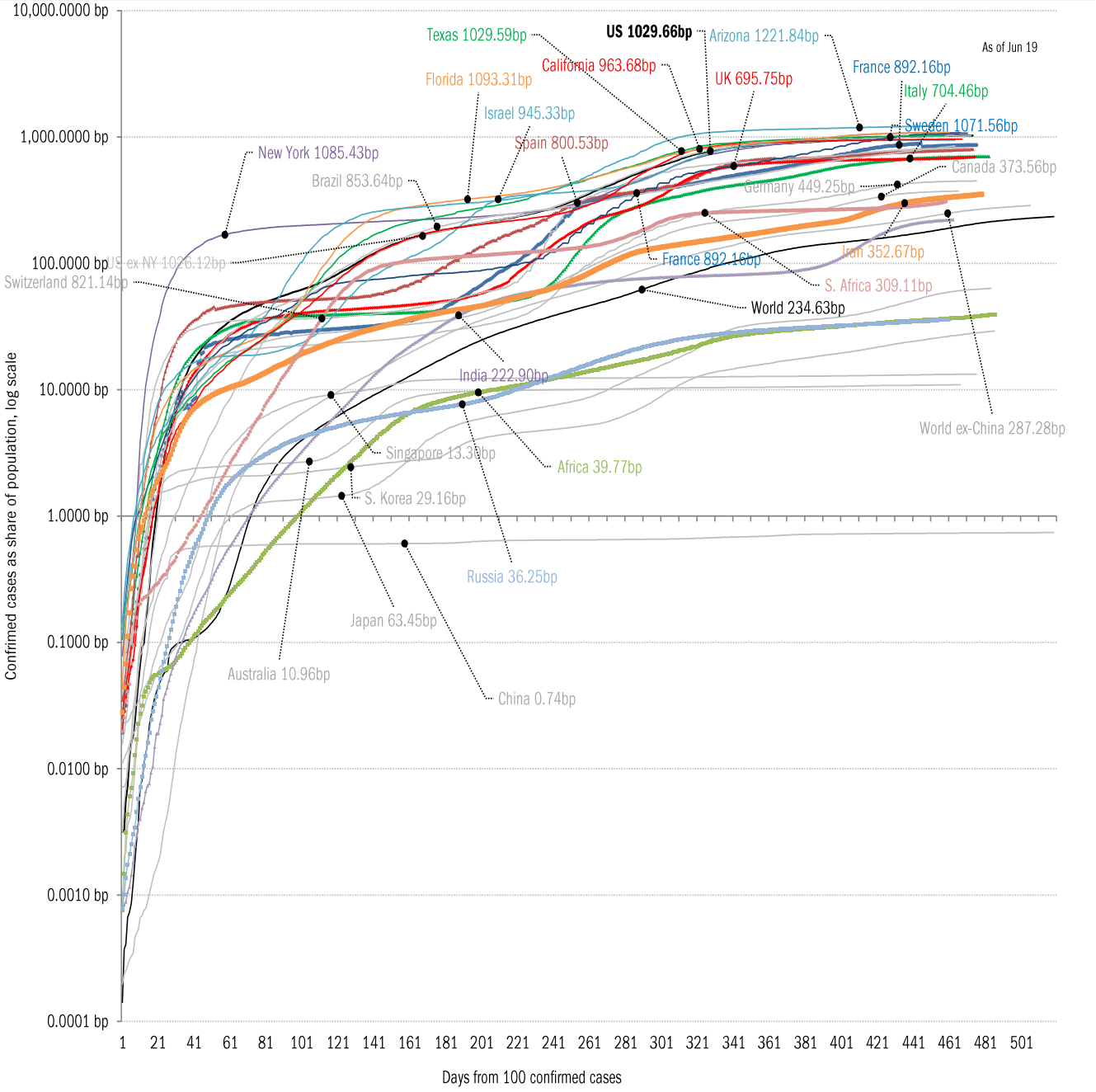
Meme of the day



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

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

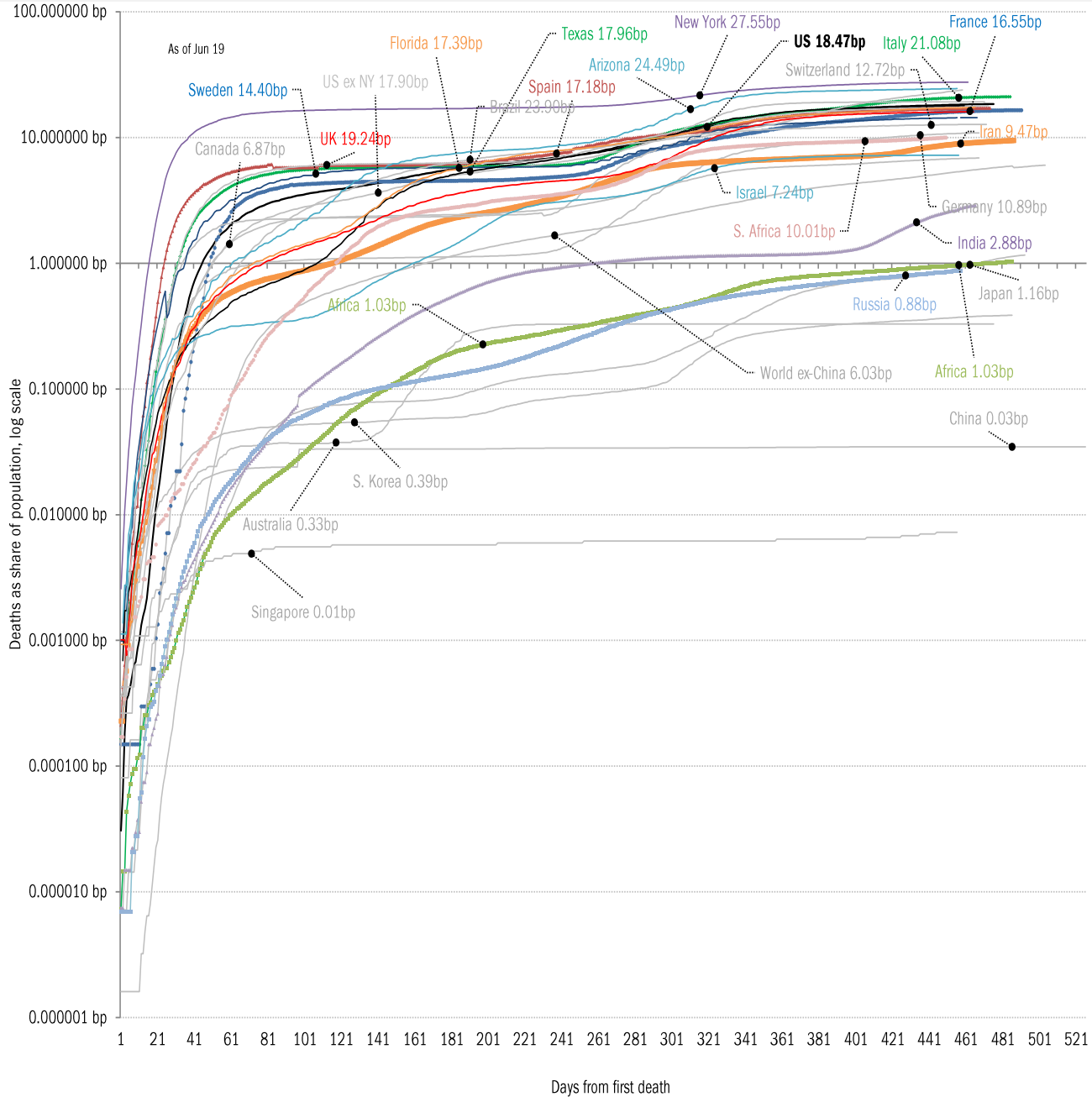
Share of infected population from first day with 100 confirmed cases, log scale



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

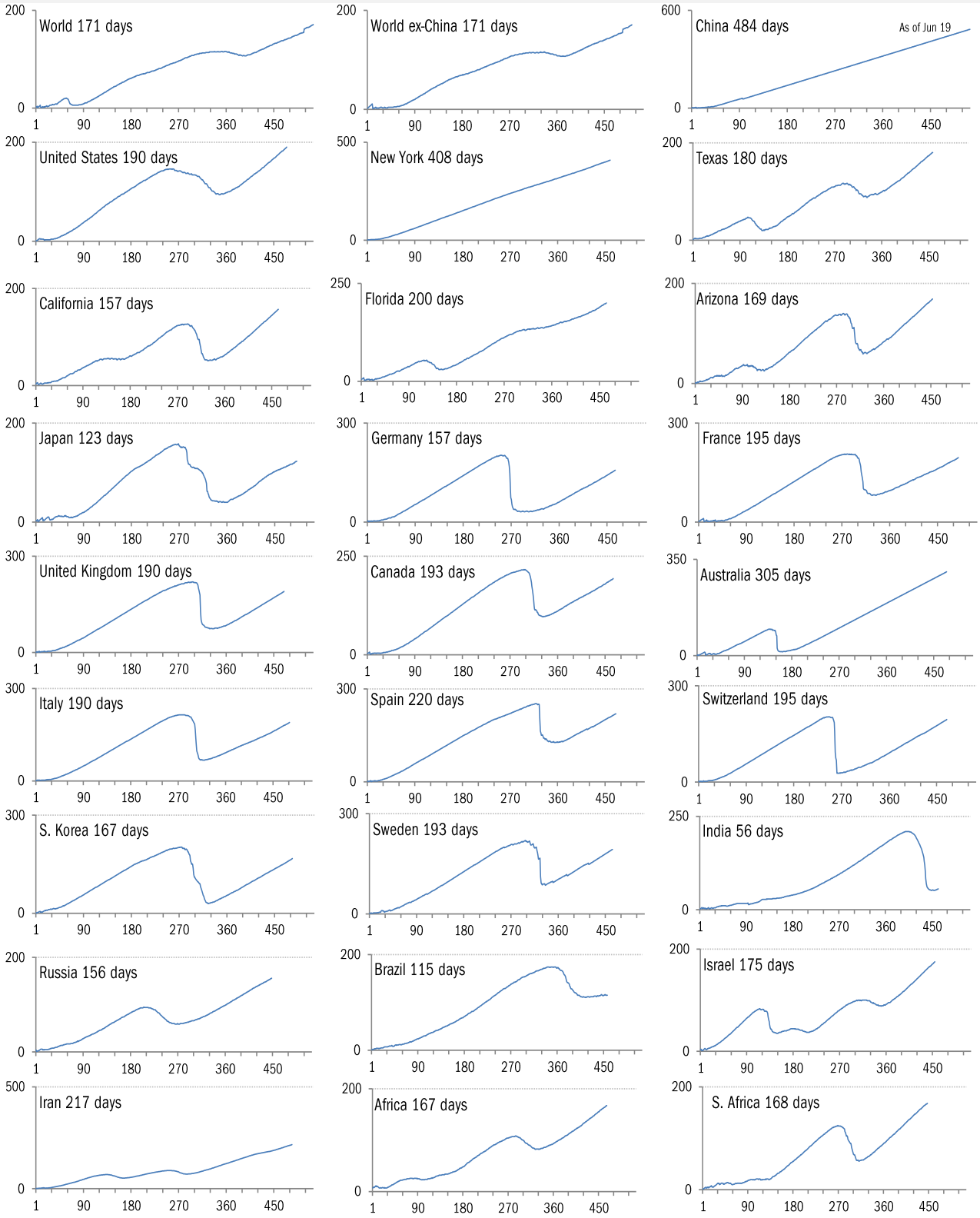


Source: Johns Hopkins, TrendMacro calculations

"Exponential"? 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

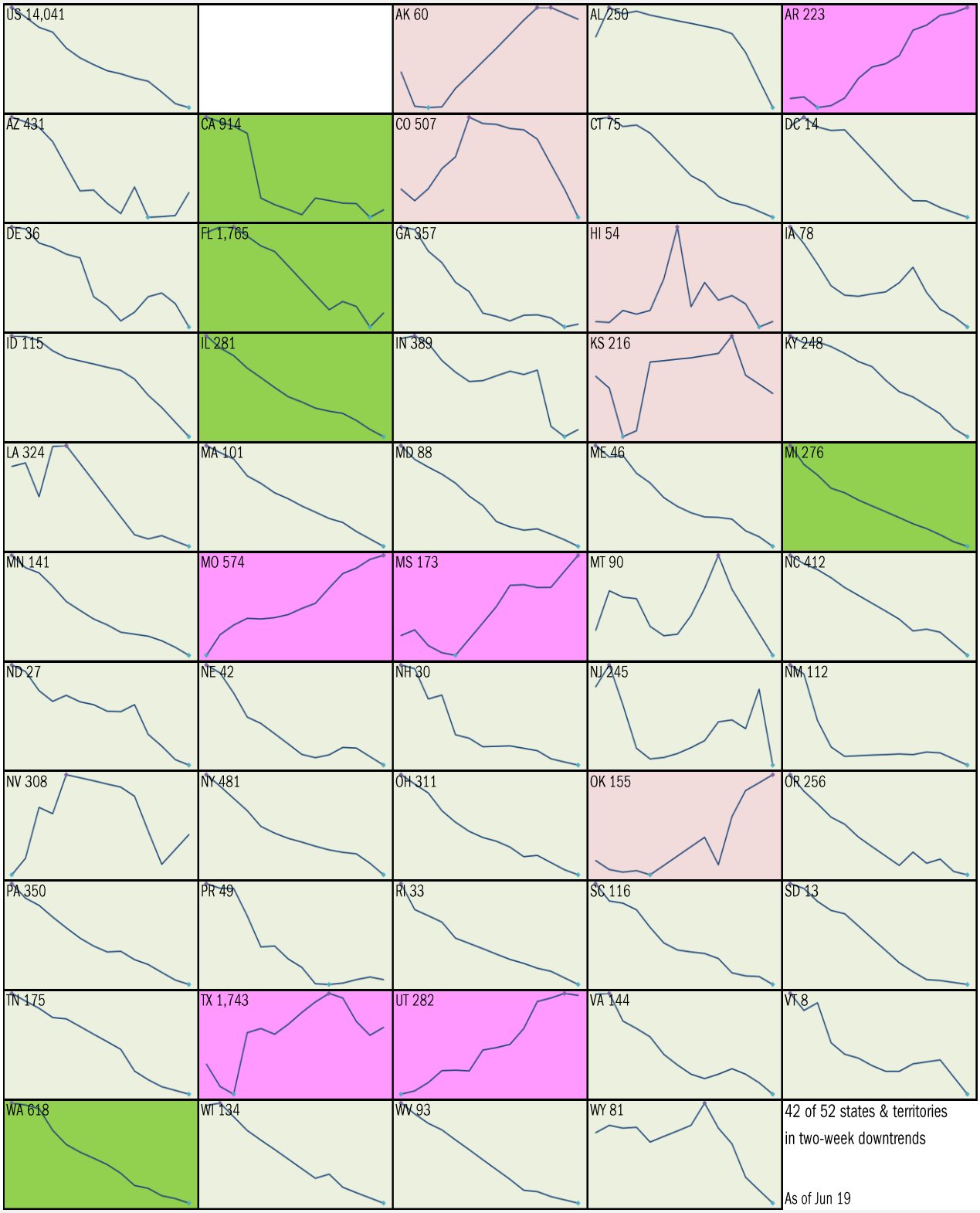


Source: Johns Hopkins, TrendMacro calculations

Requirement to Open Up America Again: 14-day "downward 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

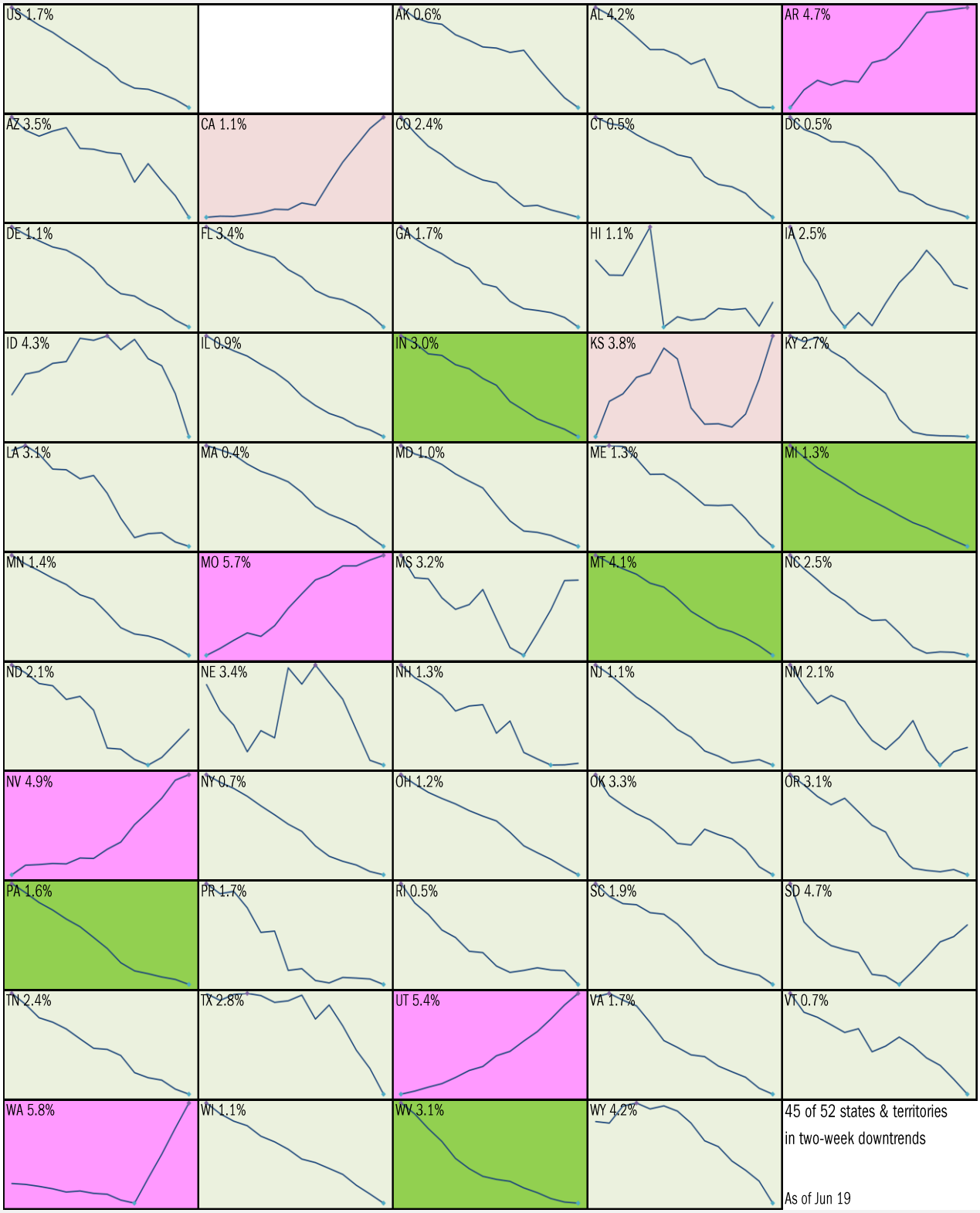


Source: Johns Hopkins, TrendMacro calculations

Alt requirement to Open Up America Again: 14-day "downward trajectory" in pos tests

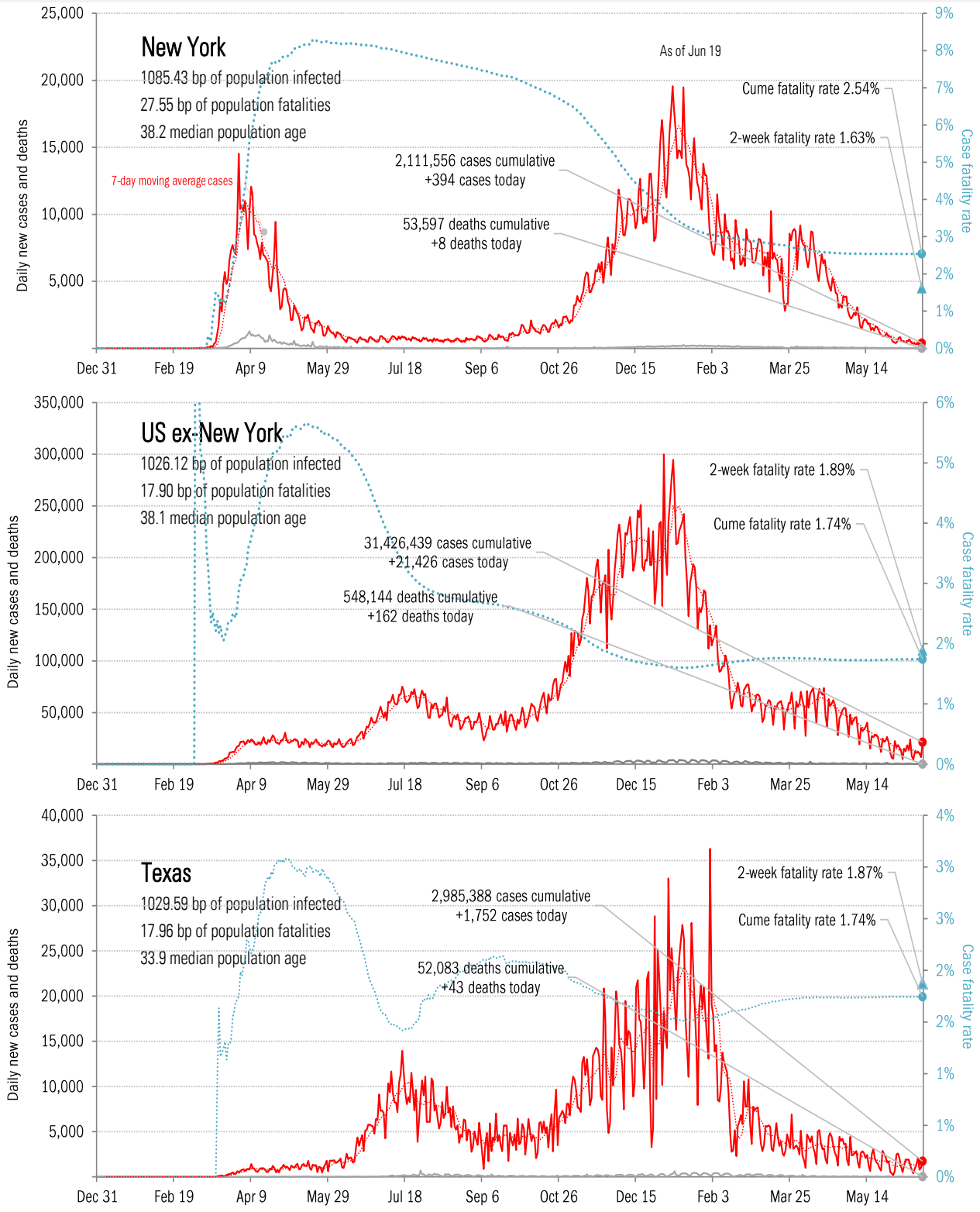
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst



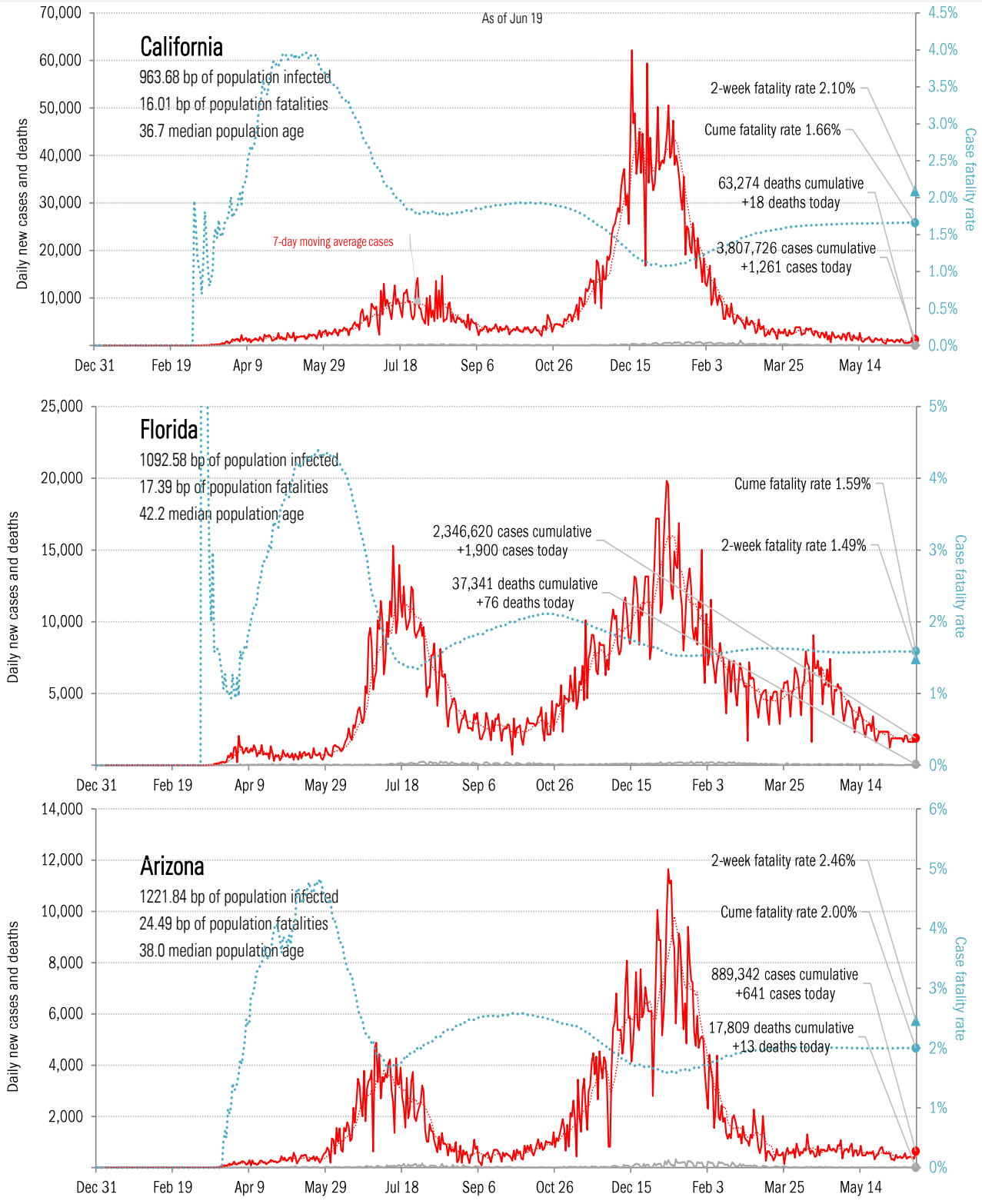
Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande



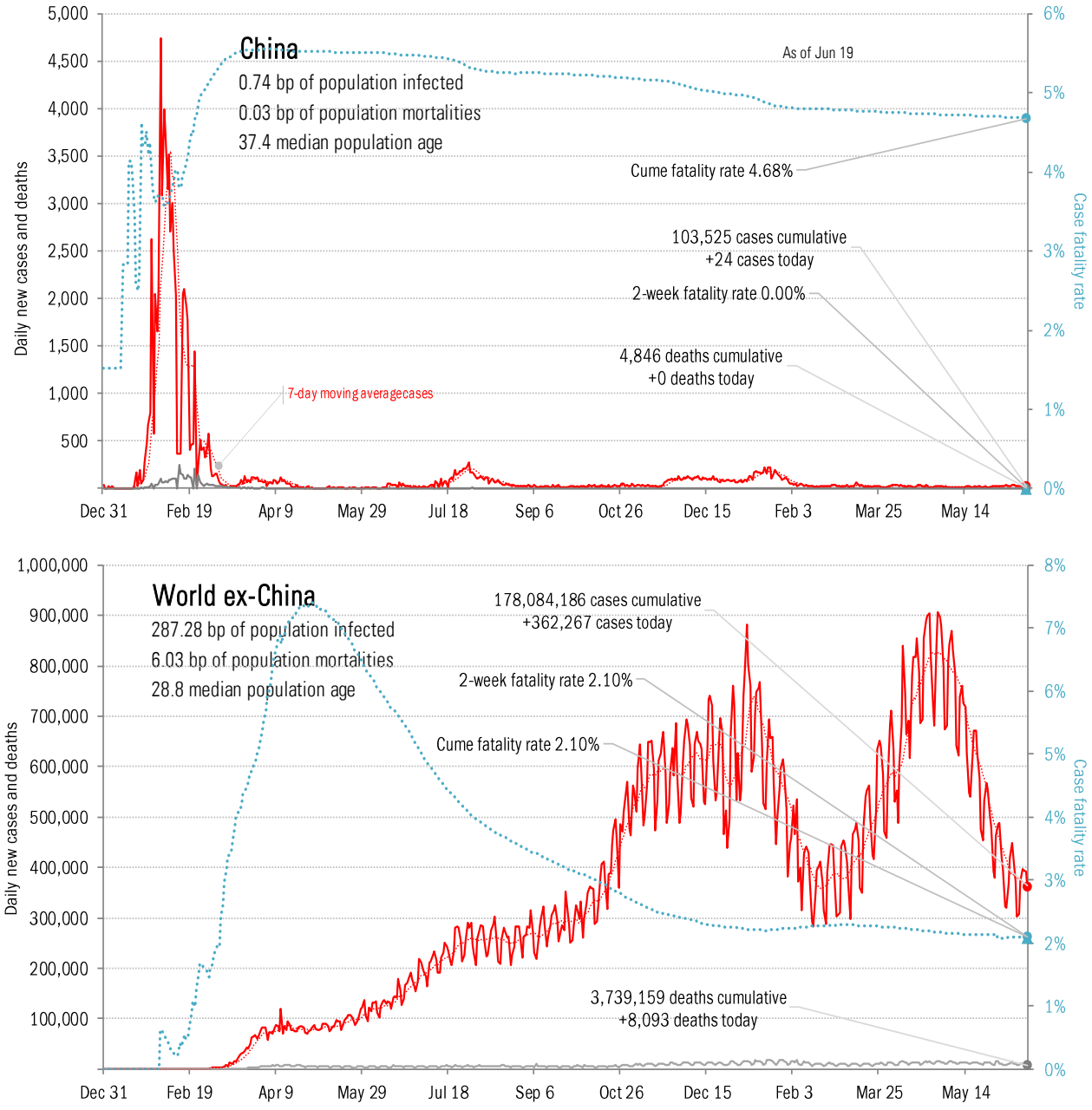
Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states (other than Texas)



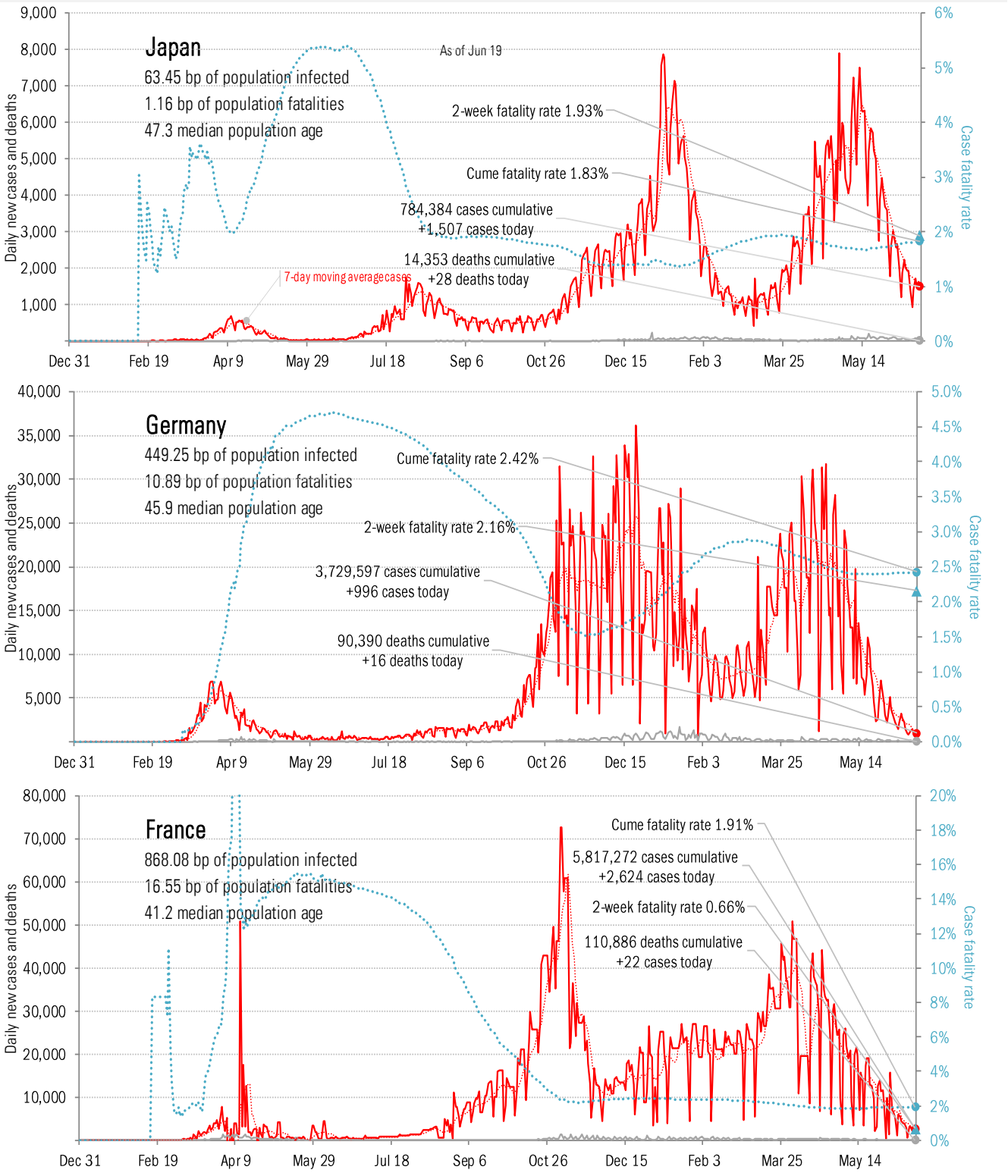
Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else



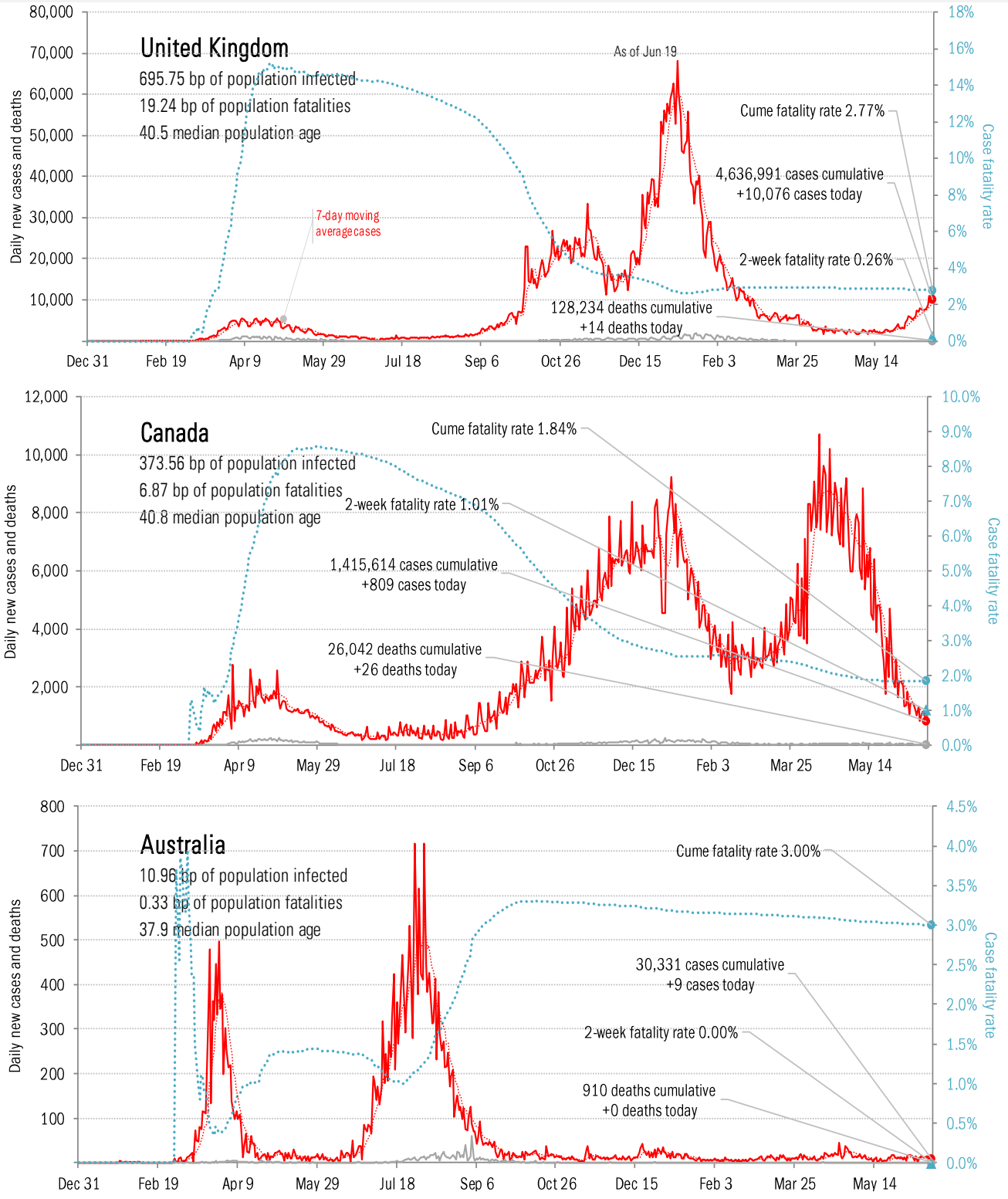
Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies



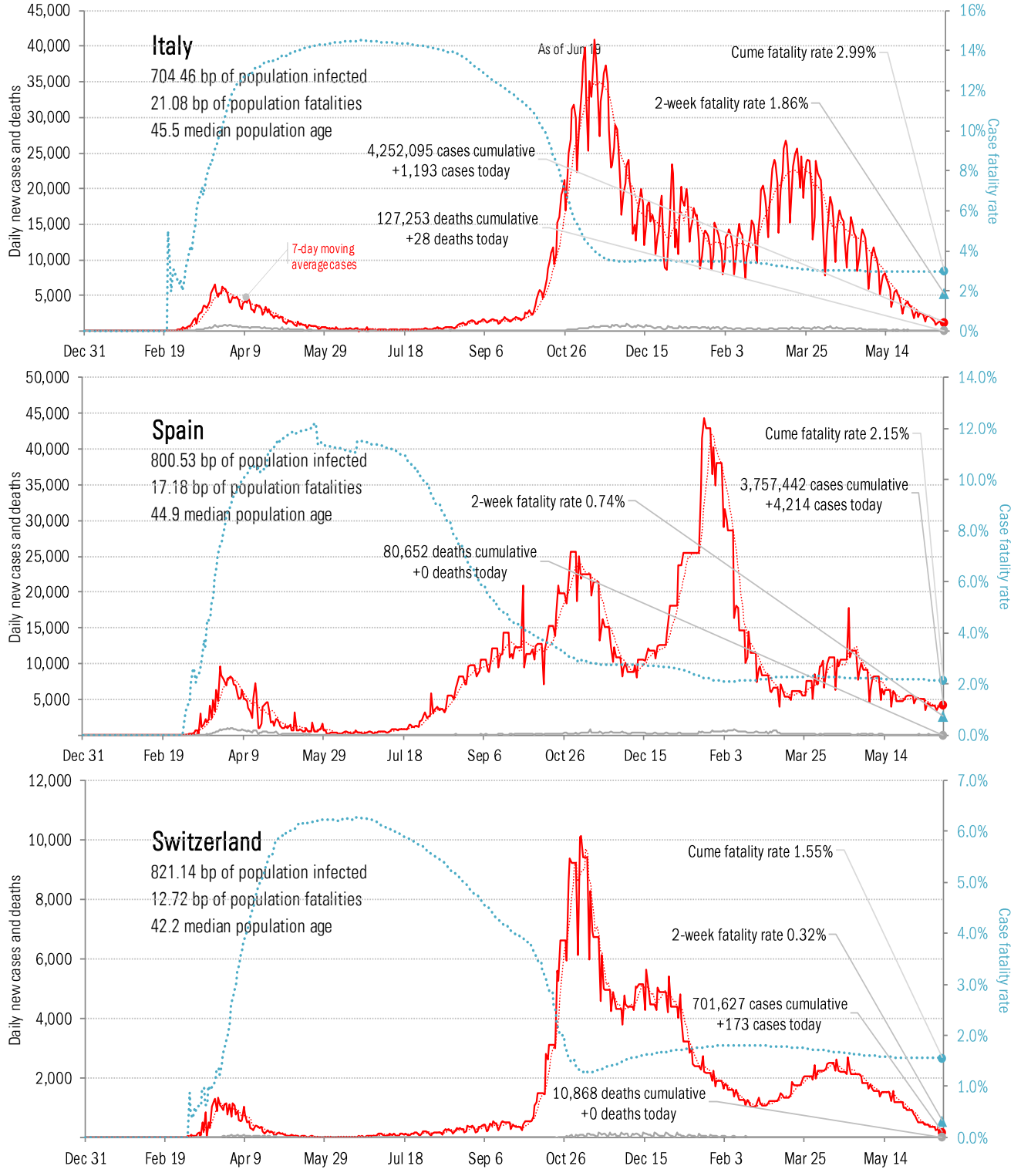
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



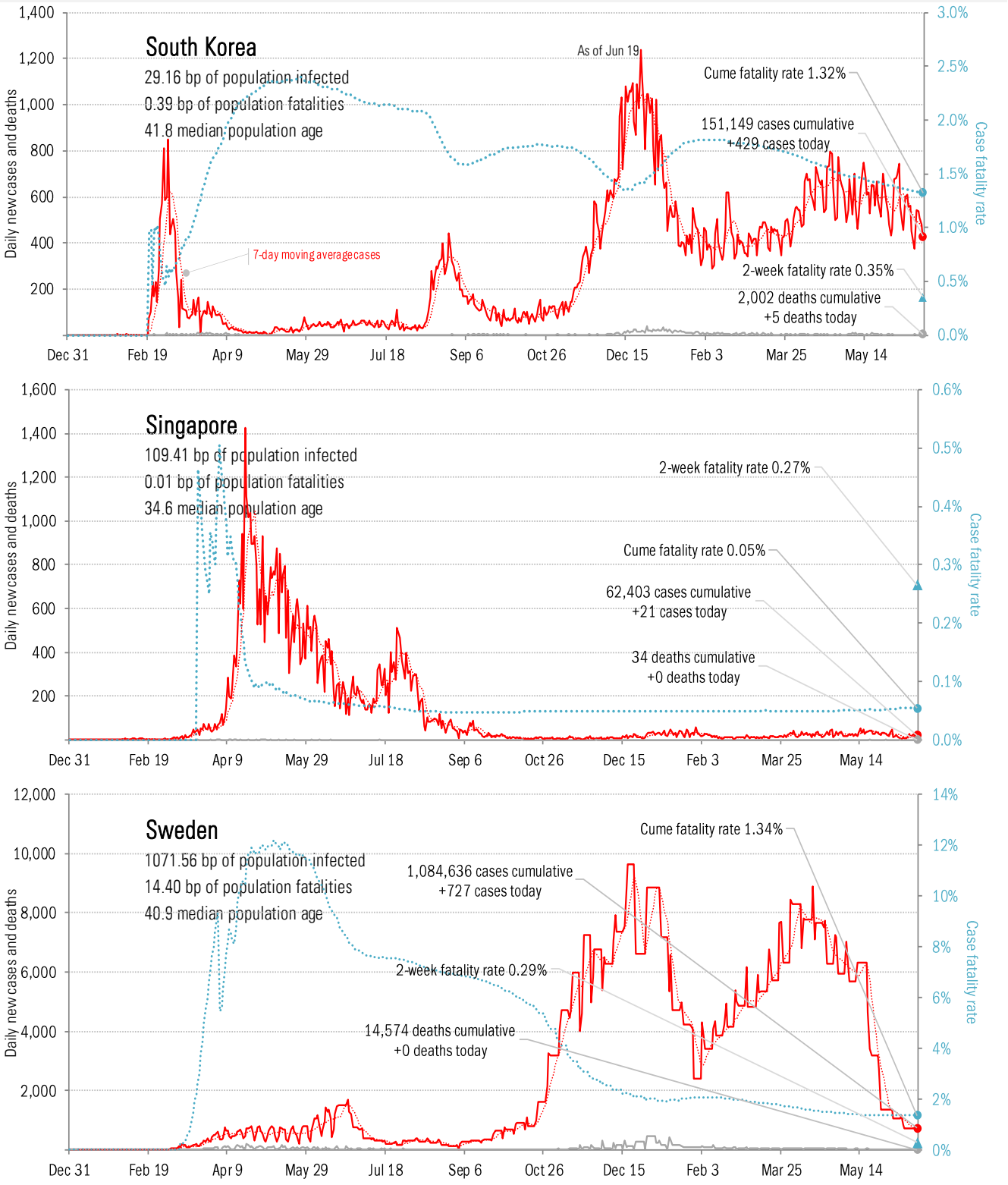
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



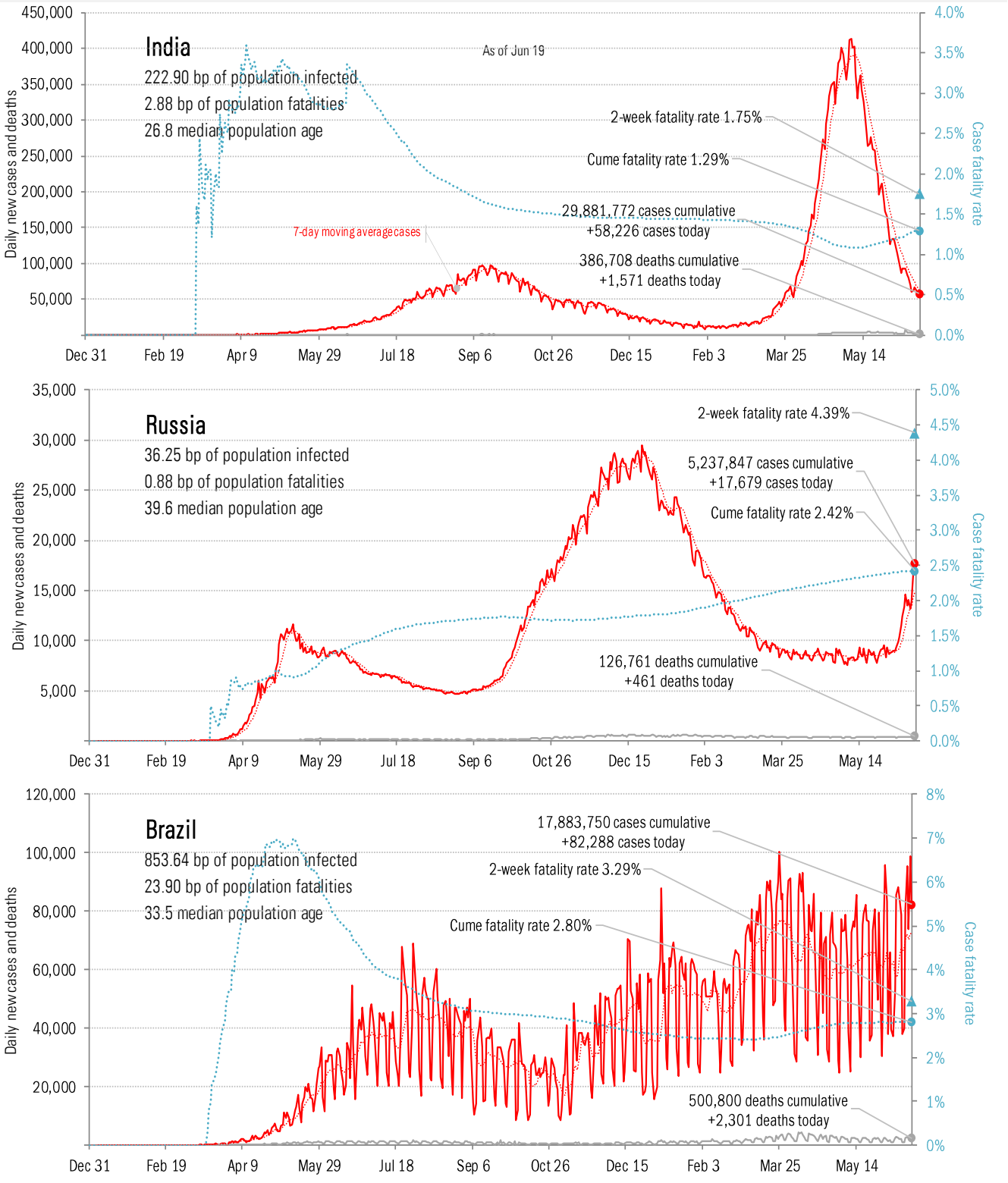
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



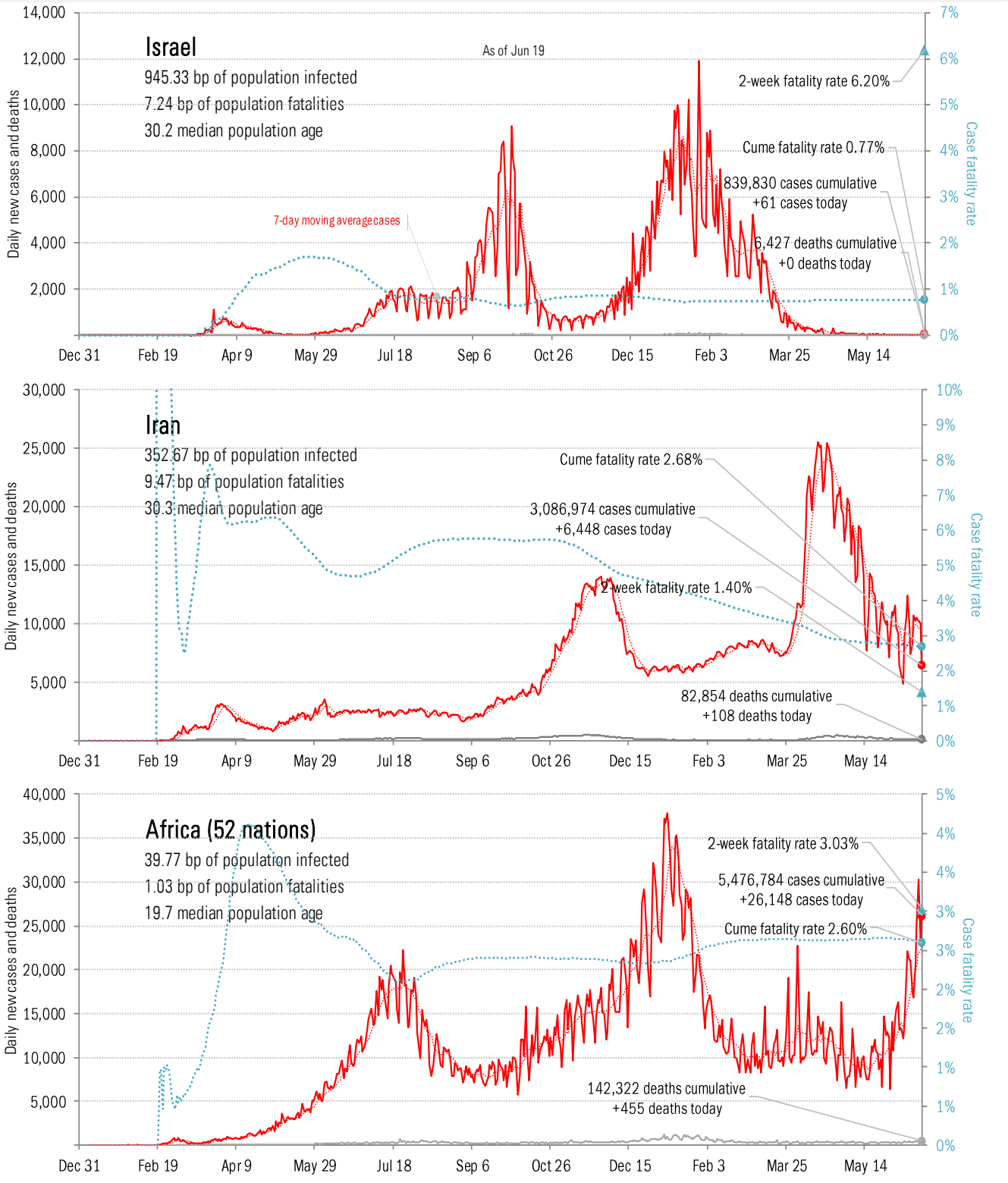
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



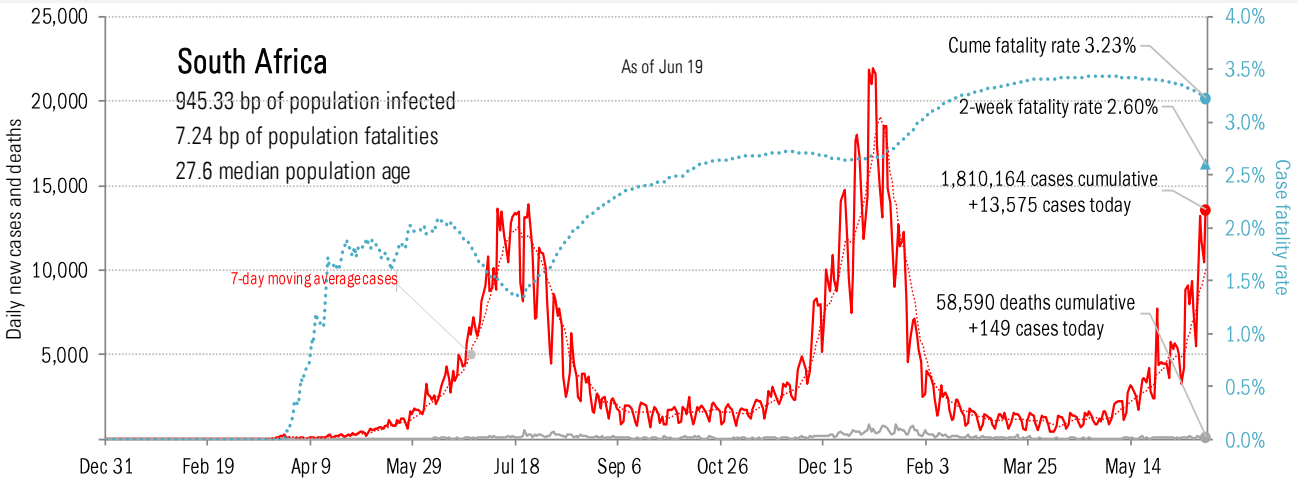
Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued



Source: Johns Hopkins, TrendMacro calculations