Trend Macrolytics, LLC
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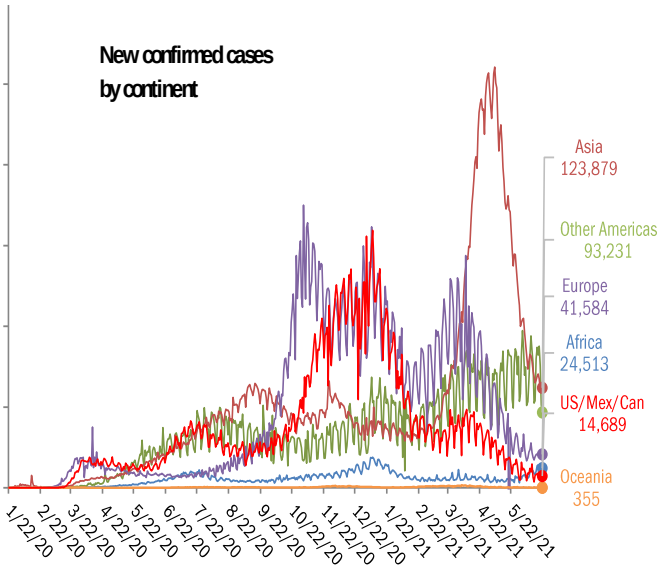
Data Insights: Covid-2019 Monitor

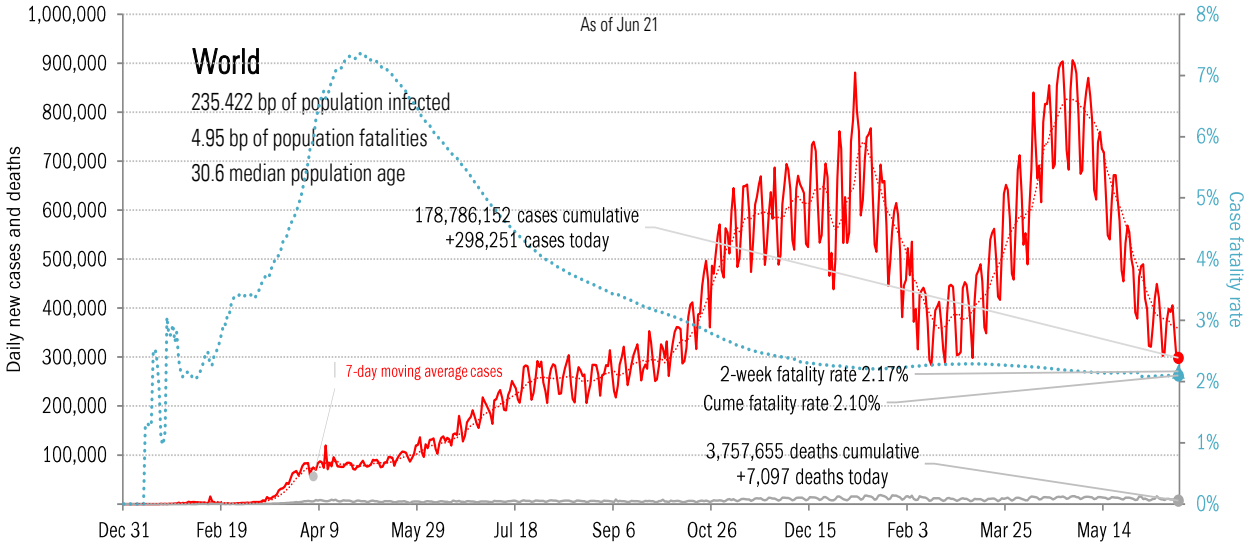
Tuesday, June 22, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+42,640	India	+1,167
Brazil	+38,903	Brazil	+761
Colombia	+23,239	Colombia	+648
Russia	+17,114	Argentina	+447
Indonesia	+14,536	Peru	+443
United States	+12,388	Russia	+435
Iran	+10,485	Indonesia	+294
United Kingdom	+10,468	Afghanistan	+281
South Africa	+9,160	United States	+268
Argentina	+8,606	Iran	+136
	+187,539		+4,880
World	+298,251	World	+7,097
Top ten	63%	Top ten	69%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

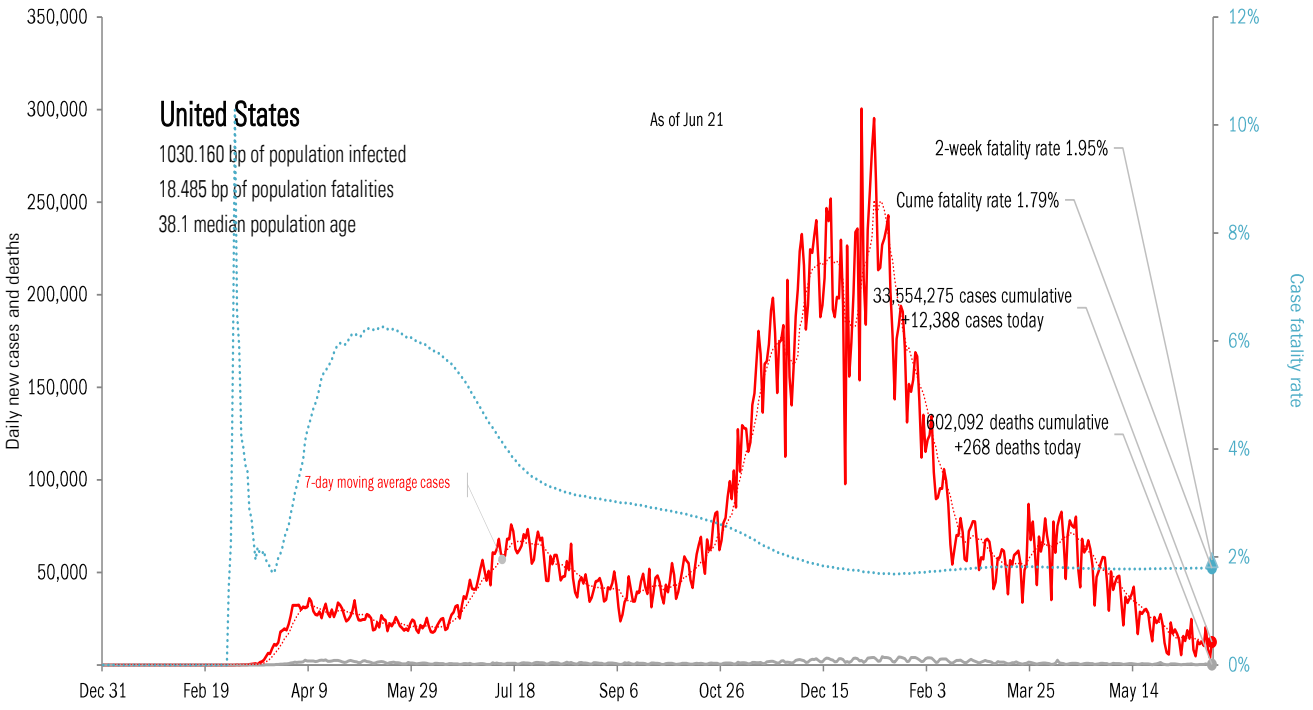
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	+1,452	FL	+64	KY	+89	CA	3,809,710	CA	63,356	TX	252,386	RI	92%	MO	14%
FL	+1,442	MI	+36	GA	+48	TX	2,986,414	NY	53,614	CA	239,030	MA	85%	WY	14%
IL	+809	NC	+28	AR	+15	FL	2,352,583	TX	52,118	FL	184,986	MO	82%	UT	11%
NC	+776	IL	+26	IL	+11	NY	2,112,129	FL	37,475	NY	136,011	PA	82%	CO	11%
TX	+755	CA	+21	MO	+7	IL	1,389,443	PA	27,568	GA	108,528	CA	81%	ID	10%
LA	+686	WA	+18	NV	+7	PA	1,215,116	NJ	26,377	PA	91,346	MD	81%	AR	10%
NV	+640	WI	+17	AZ	+6	GA	1,131,232	IL	25,592	OH	87,353	CT	81%	WA	9%
WA	+521	ID	+14	CA	+6	OH	1,109,025	GA	21,318	IL	82,191	MN	79%	OK	8%
OK	+451	KY	+10	CT	+6	NJ	1,021,308	MI	20,898	KY	77,454	MI	78%	TX	8%
MO	+430	NM	+10	UT	+6	NC	1,010,889	OH	20,166	#N/A	0	FL	78%	NV	8%
	+7,962		+244		+201		18,137,849		348,482		1,259,285				
All states	+13,830		+332		+17	All states	33,554,275		602,092		2,372,046	All states	70%		67%
Top ten	58%		74%		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	
OR	-122	CA	-6	TX	-88	RI	+40 bp
UT	-89	AZ	-5	FL	-22	DE	+30 bp
MO	-62	MN	-5	IN	-16	MI	+30 bp
HI	-55	PA	-5	AL	-14	WV	+30 bp
CO	-50	TX	-4	TN	-14	CA	+20 bp



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

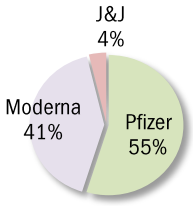
Rolling out the vaccines in the US and the world

US overall	Total				Today
Doses distributed	392,589,985				+0.000 million
Doses administered	328,016,110				+0.623 million
Administered	**One dose**	**% Pop**	**Immune**	**% pop**	**New immune today**
Total population	181,939,929	54%	154,129,788	46%	+0.385 million
Age 12 to 17	8,229,743	33%	5,719,242	23%	+0.091 million
Age 18 to 64	124,151,411	61%	104,611,252	51%	+0.327 million
Age 65 and over	49,342,694	90%	43,701,803	80%	+0.035 million

Immunity	Full	Partial
US	44.9%	53.0%
UK	46.3%	63.5%
France	24.9%	47.5%
Spain	30.9%	49.6%
Germany	31.4%	50.8%
Italy	26.6%	52.5%
Australia	3.4%	22.5%
Israel	59.5%	63.5%
Canada	19.6%	66.7%
Japan	7.7%	18.3%
Africa	1.0%	2.5%
India	3.7%	16.9%
Brazil	11.4%	30.1%

Global data differs from sources, timing

China NA



At today's dosing pace,
every American >18 immune in
246 days
by Feb 22, 2022

70.9% of population >18 immunized
14.1% previously tested positive
85.0% 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	VT	NH	WI	WA	ID	MT	ND	MN	IL	MI	NY	MA	OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI	CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	AZ	NM	KS	AR	TN	NC	SC	DC	OK	LA	MS	AL	GA	TX	FL	PR
60.5%	70.9%	72.3%	77.4%	70.7%	54.8%	64.3%	49.1%	54.8%	48.9%	60.5%	60.7%	61.0%	63.9%	73.1%	70.1%	52.1%	47.3%	57.2%	57.3%	52.3%	55.4%	64.6%	67.7%	69.1%	73.6%	64.8%	52.5%	63.4%	56.3%	51.9%	52.4%	55.5%	63.1%	72.7%	68.4%	58.1%	59.1%	55.5%	49.6%	55.8%	58.4%	53.9%	78.5%	53.3%	45.7%	47.2%	51.4%	54.9%	57.5%	61.2%	68.0%
47.9%	69.1%	65.7%	73.2%	61.7%	53.0%	60.2%	39.1%	47.2%	43.4%	56.4%	58.3%	50.9%	59.0%	69.6%	57.8%	48.3%	38.6%	49.8%	50.9%	43.9%	47.7%	61.9%	63.8%	66.1%	63.8%	60.1%	47.4%	57.0%	50.1%	44.2%	48.8%	42.8%	58.2%	60.5%	57.3%	48.7%	60.8%	48.5%	41.2%	41.0%	44.7%	42.9%	60.2%	44.1%	37.5%	35.4%	39.1%	42.0%	47.3%	52.5%	55.8%
41.8%	50.9%	59.9%	64.3%	54.9%	47.9%	52.9%	35.3%	41.6%	38.3%	50.3%	44.4%	46.1%	52.2%	60.0%	51.6%	40.6%	33.6%	44.5%	47.1%	39.1%	43.7%	48.5%	54.6%	59.0%	57.3%	48.3%	35.9%	50.2%	45.2%	38.1%	42.2%	36.5%	50.3%	53.8%	48.0%	39.0%	52.5%	41.0%	33.4%	34.5%	38.6%	37.0%	50.7%	37.3%	33.8%	28.9%	31.9%	34.8%	39.8%	44.1%	43.2%

As of Jun 21

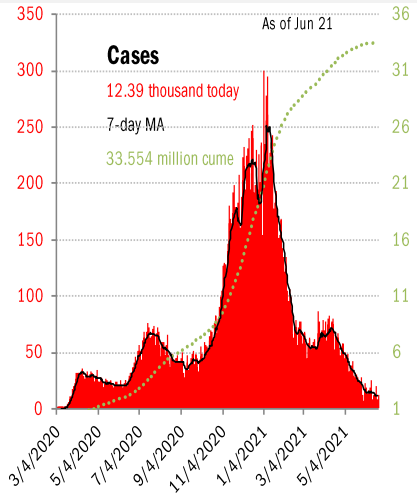
* Includes persons >18 fully immunized or previosuly tested positive, no overlap. Disregards untested positives, natural immunities.

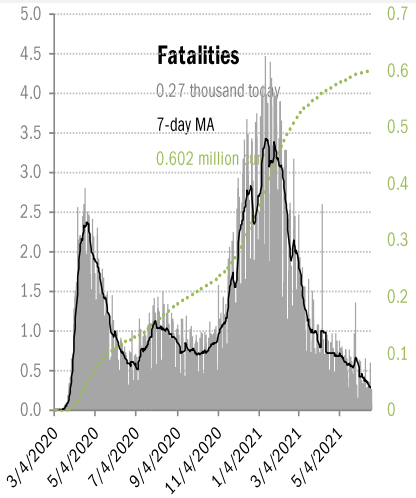
** One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

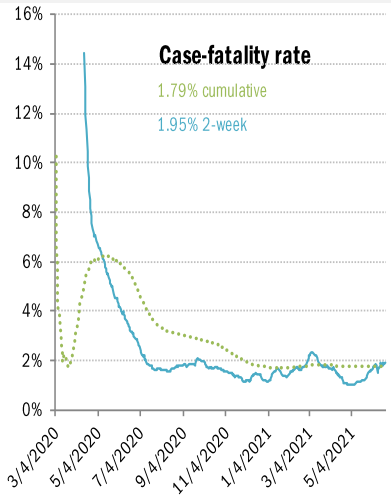
Source: CDC, CDC, Our World in Data, TrendMacro calculations

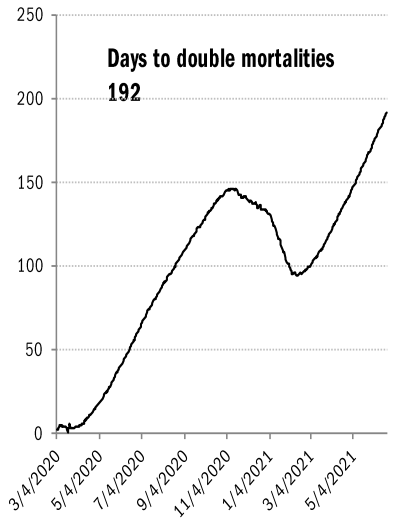
US deep-dive

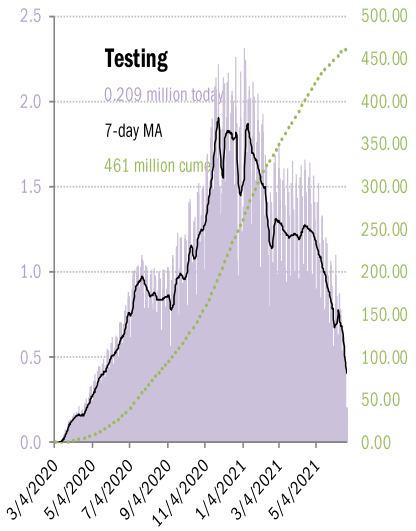
National and state-by-state data do not line up because of different sources

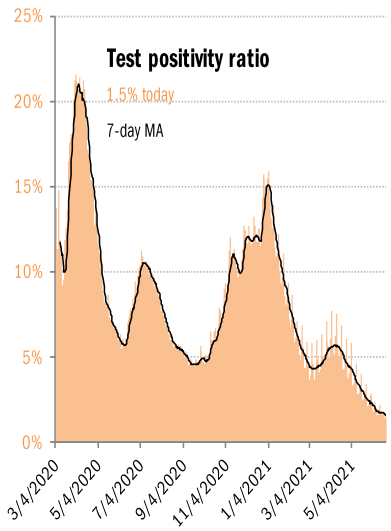


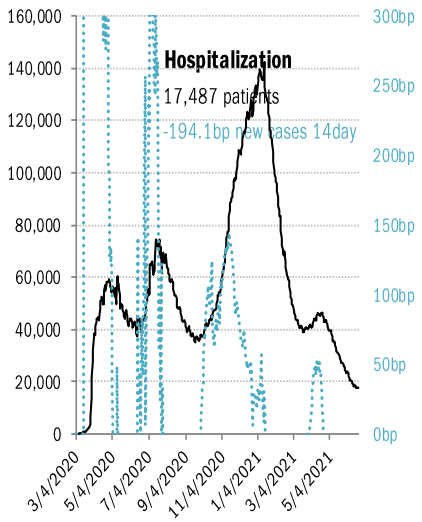


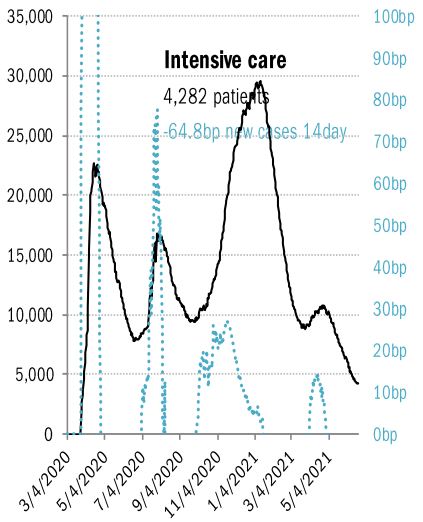


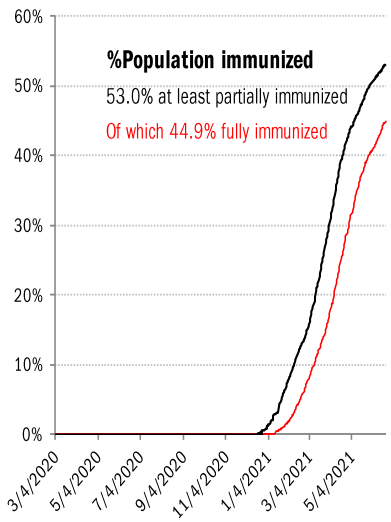












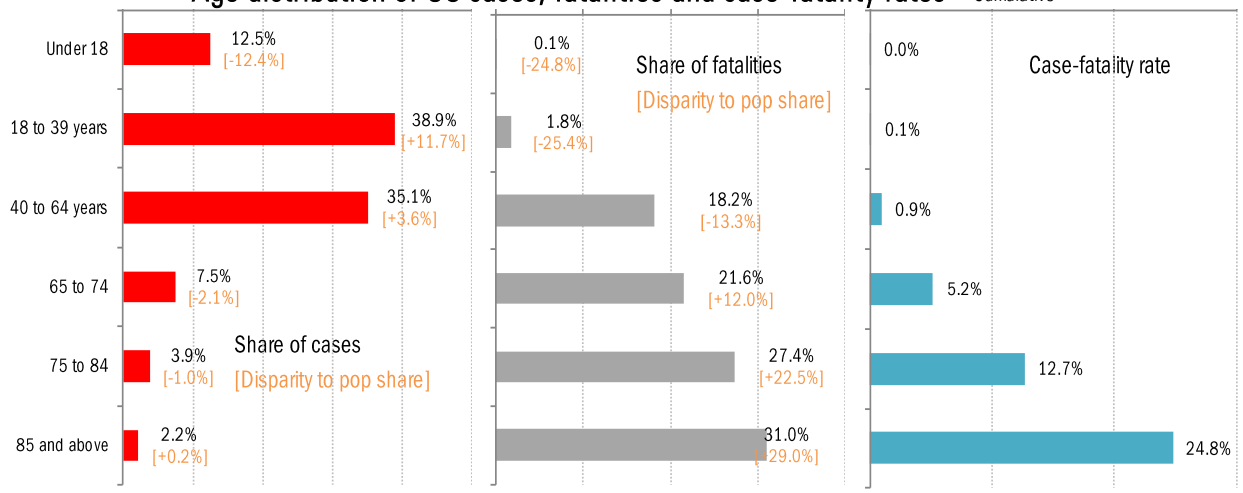
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

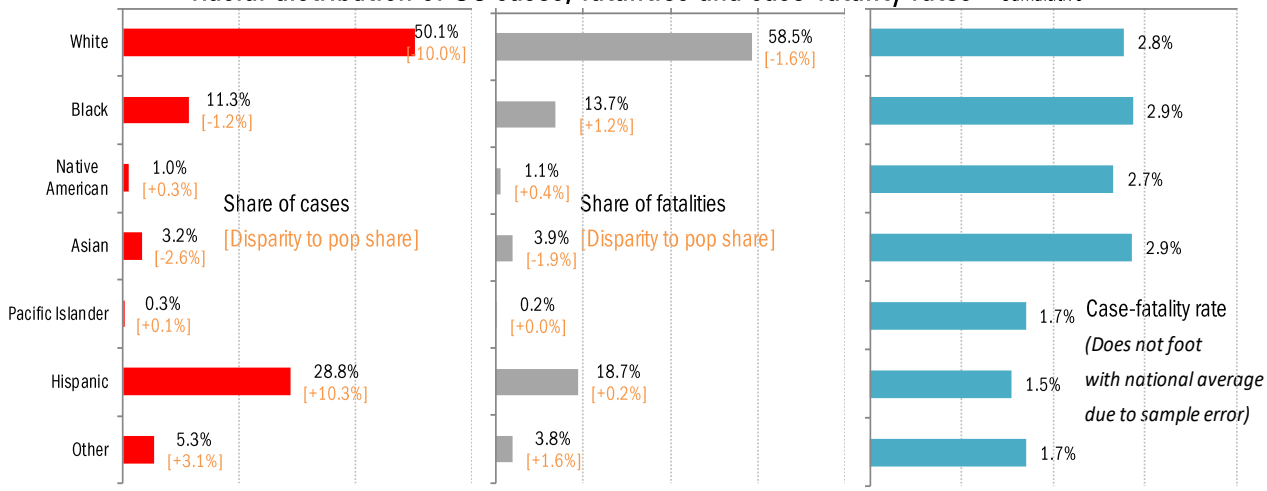
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



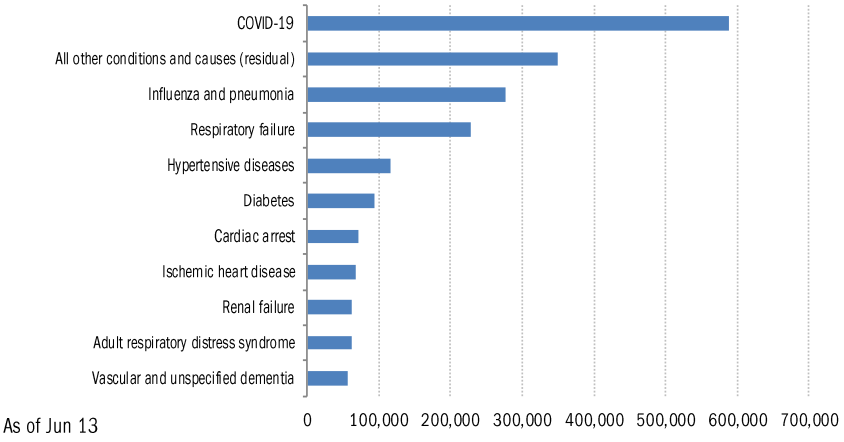
Racial distribution of US cases, fatalities and case-fatality rates

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

Monmouth University requires vaccinated students to wear masks for fall semester
Leanna Dipple
Campus Reform
June 21, 2021

From Covid to Comeback
James Freeman
Wall Street Journal
June 21, 2021

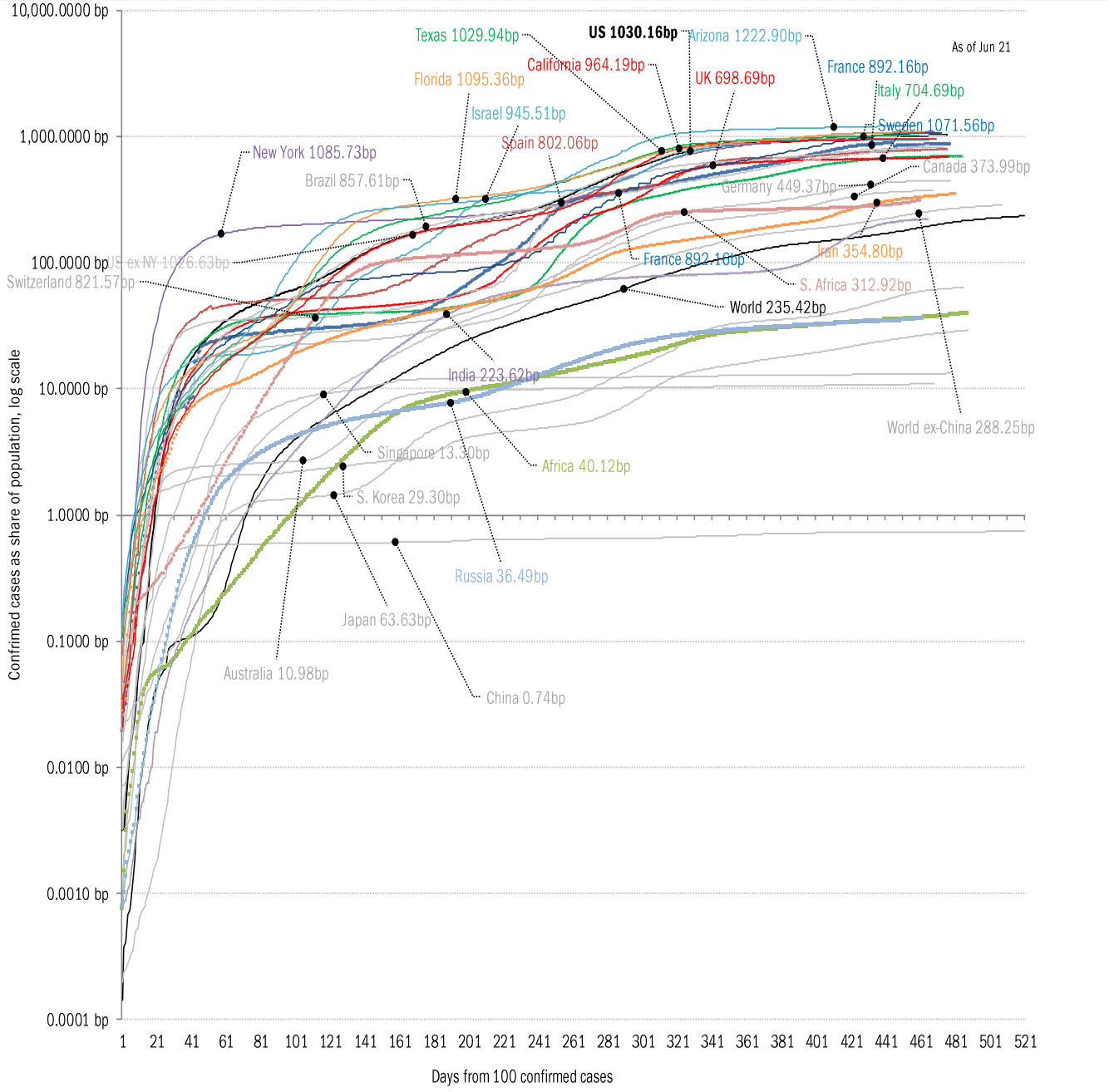
The 60-Year-Old Scientific Screwup That Helped Covid Kill
Megan Molteni
Wired
May 13, 2021

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

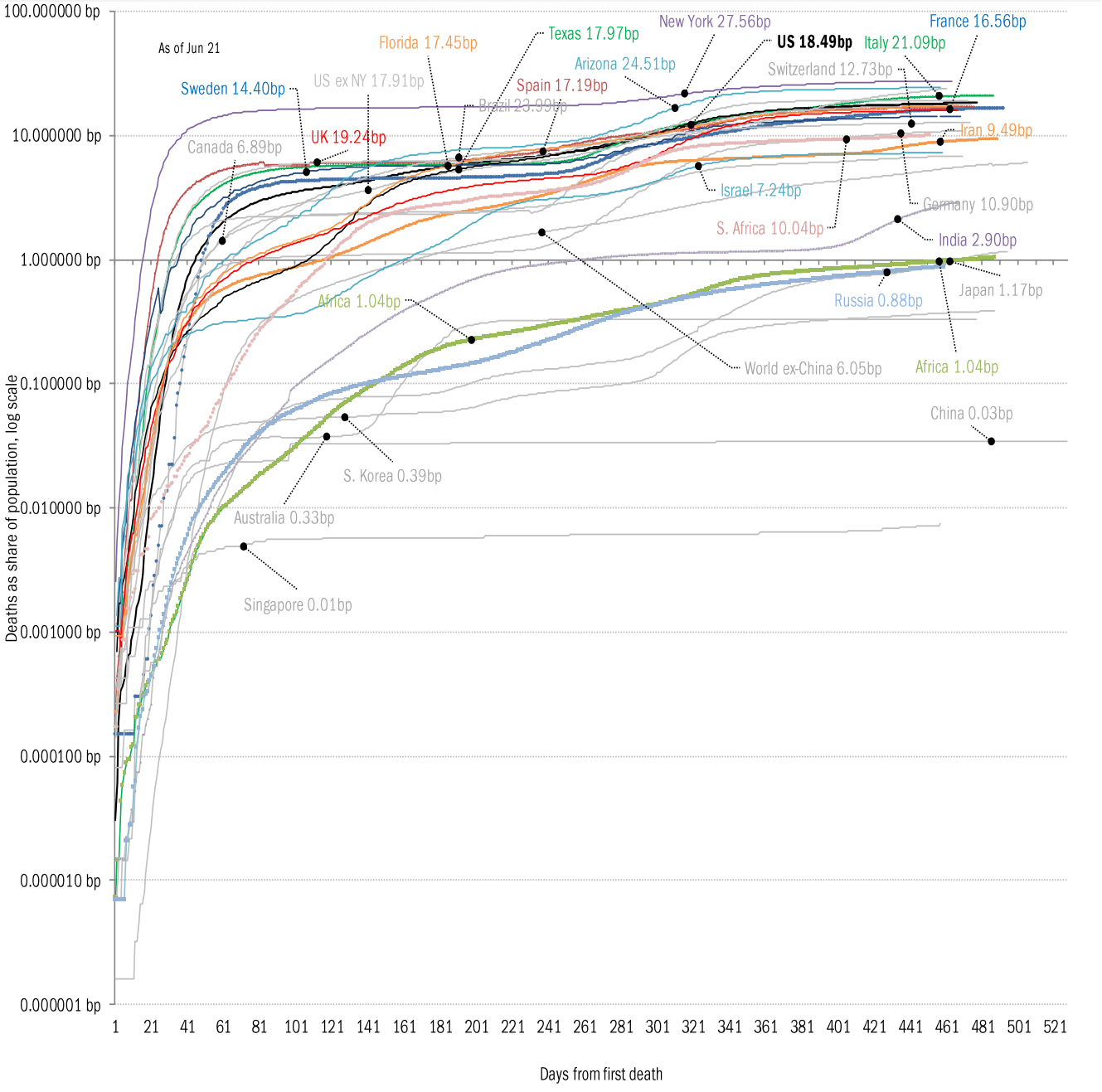
Share of infected population from first day with 100 confirmed cases, log scale



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

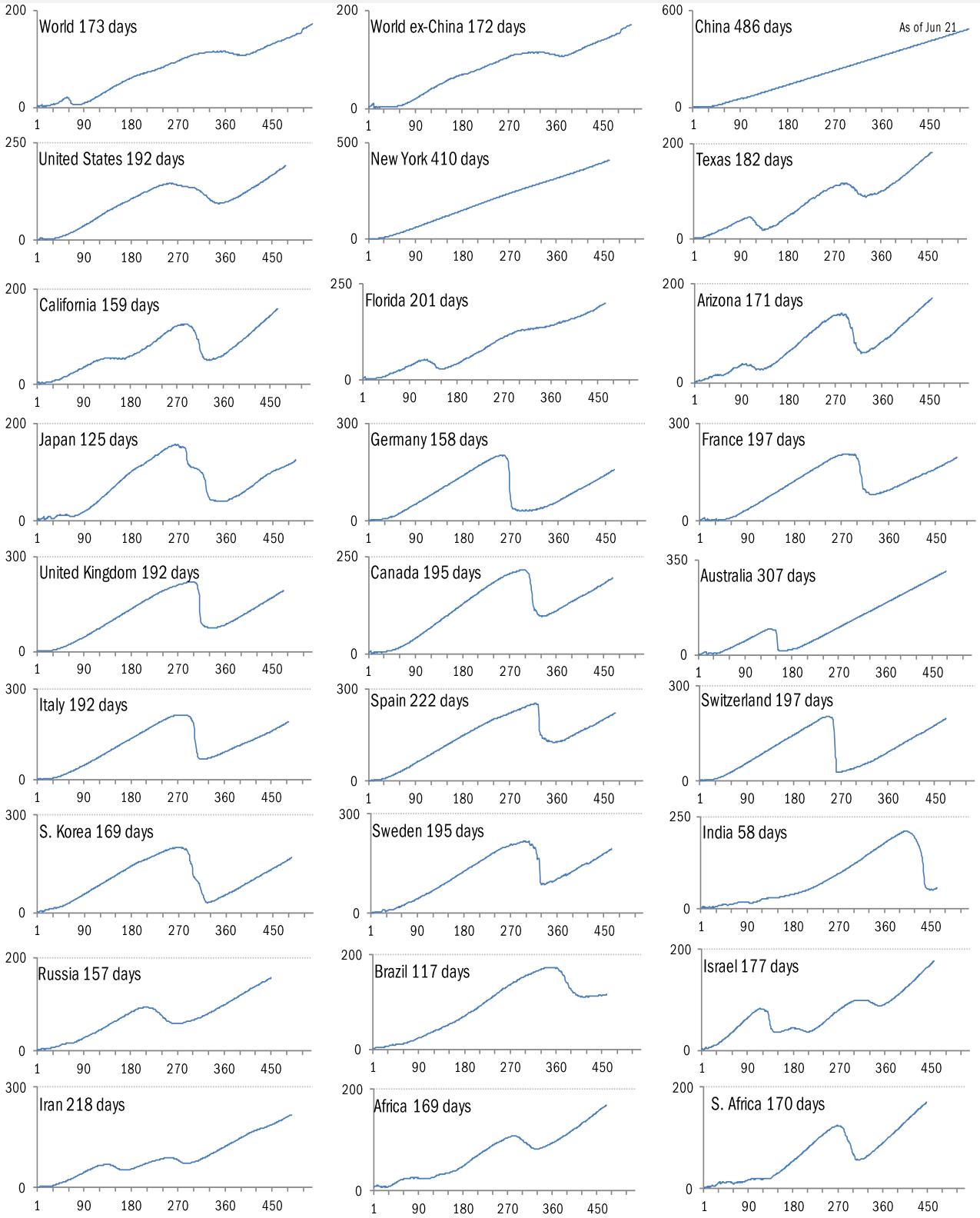


Source: Johns Hopkins, TrendMacro calculations

"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

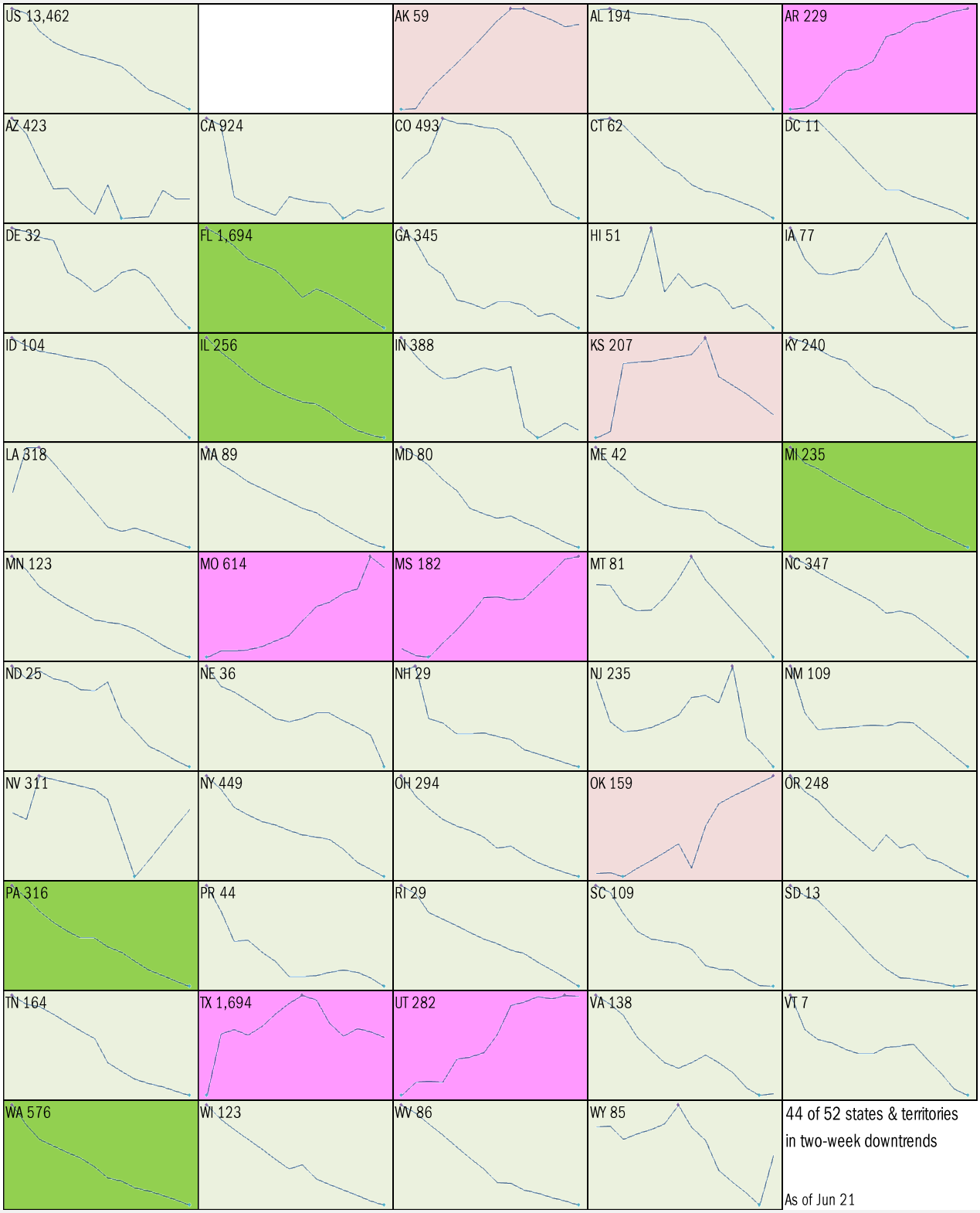


Source: Johns Hopkins, TrendMacro calculations

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

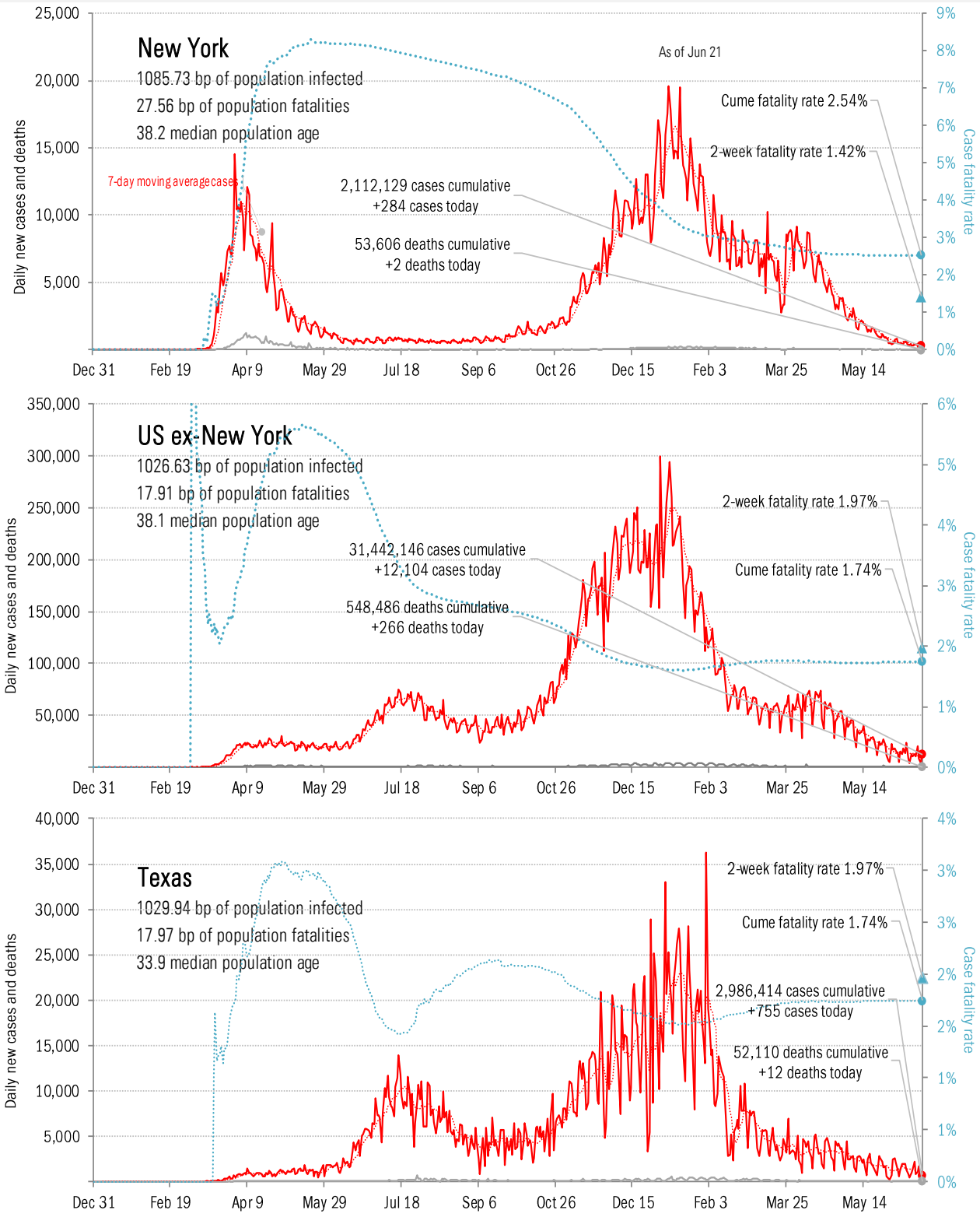
Alt requirement to Open Up America Again: 14-day "downward trajectory" in pos tests

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

Downward trajectory Five best Upward trajectory Five worst

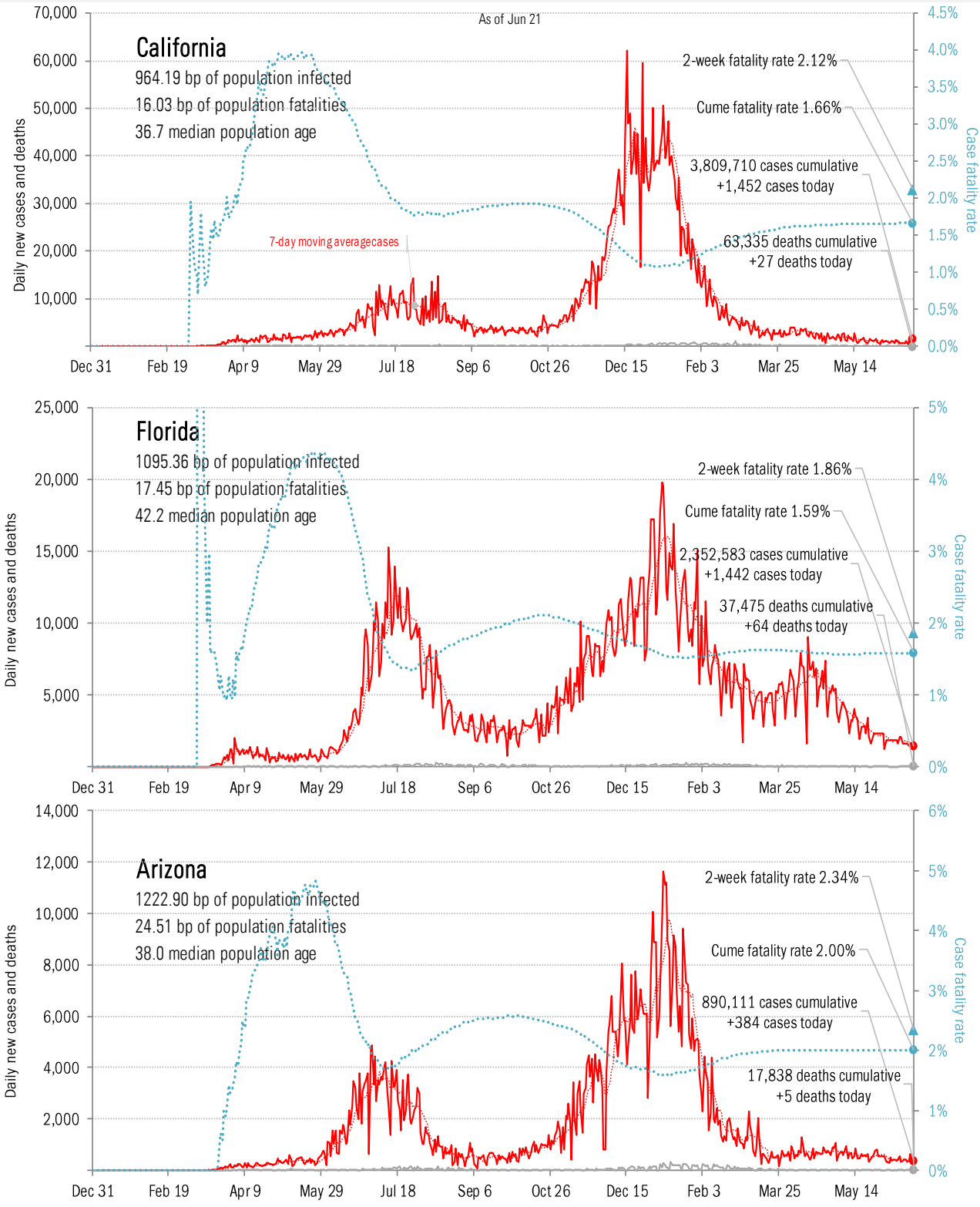
Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande



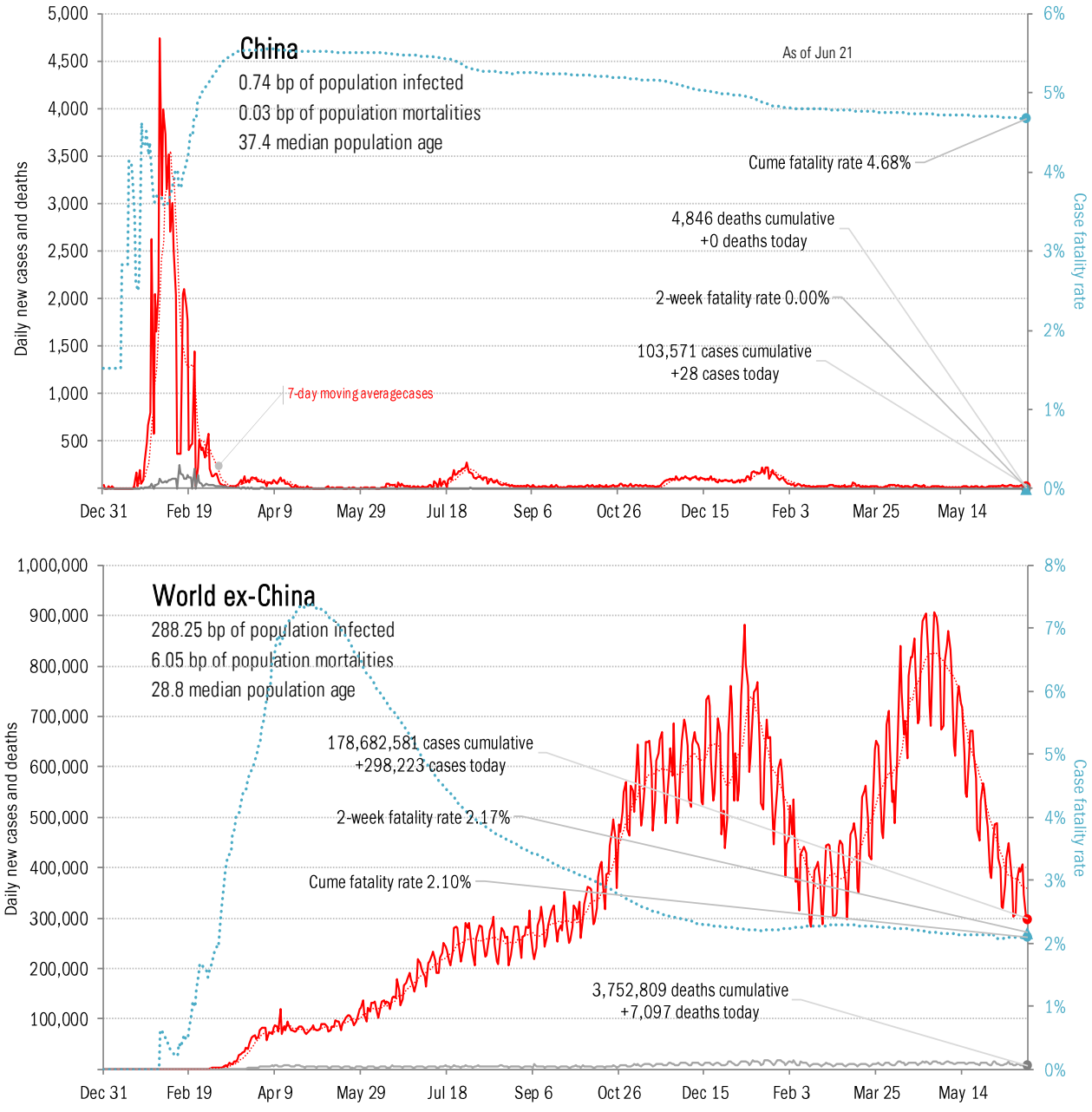
Source: Johns Hopkins, TrendMacro calculations

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



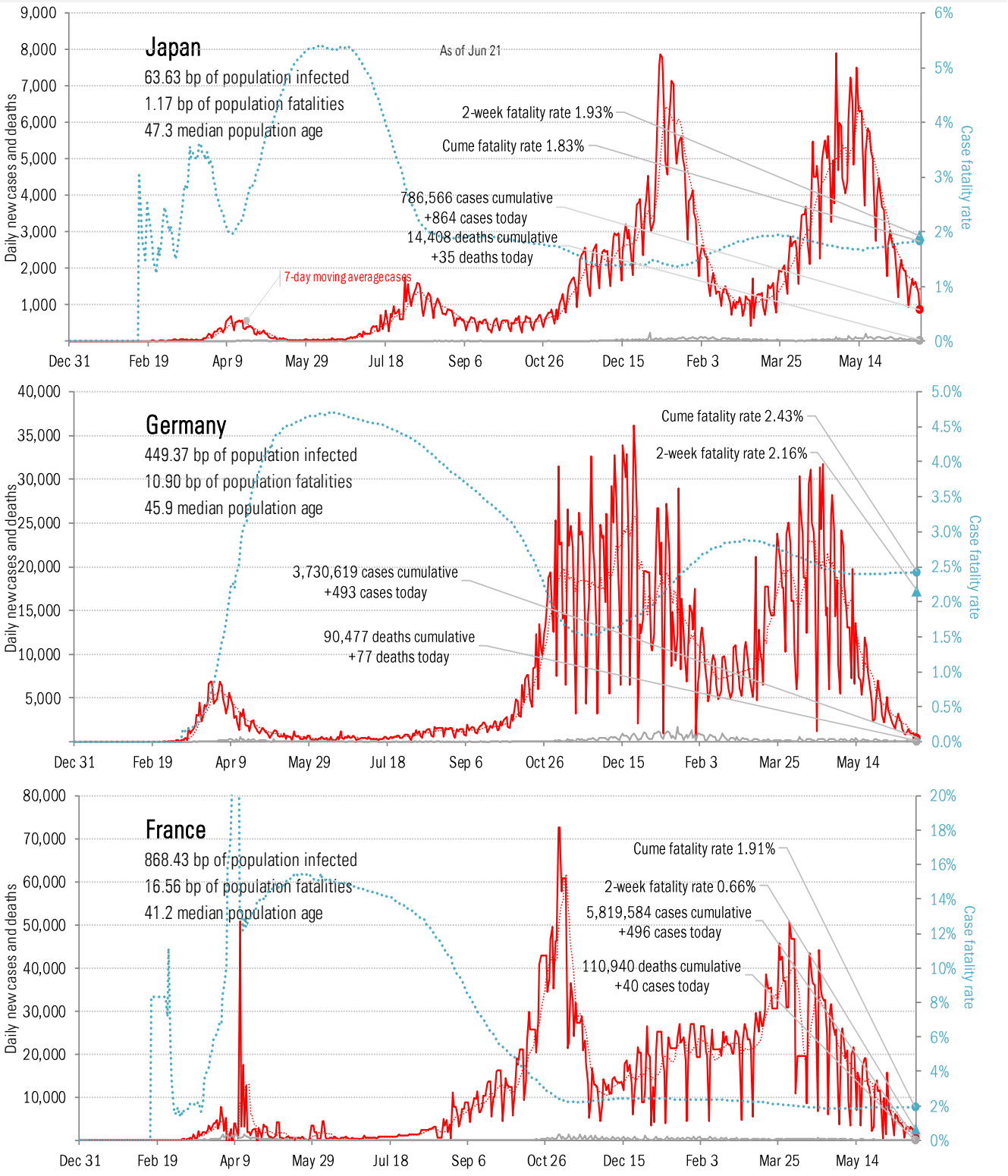
Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else



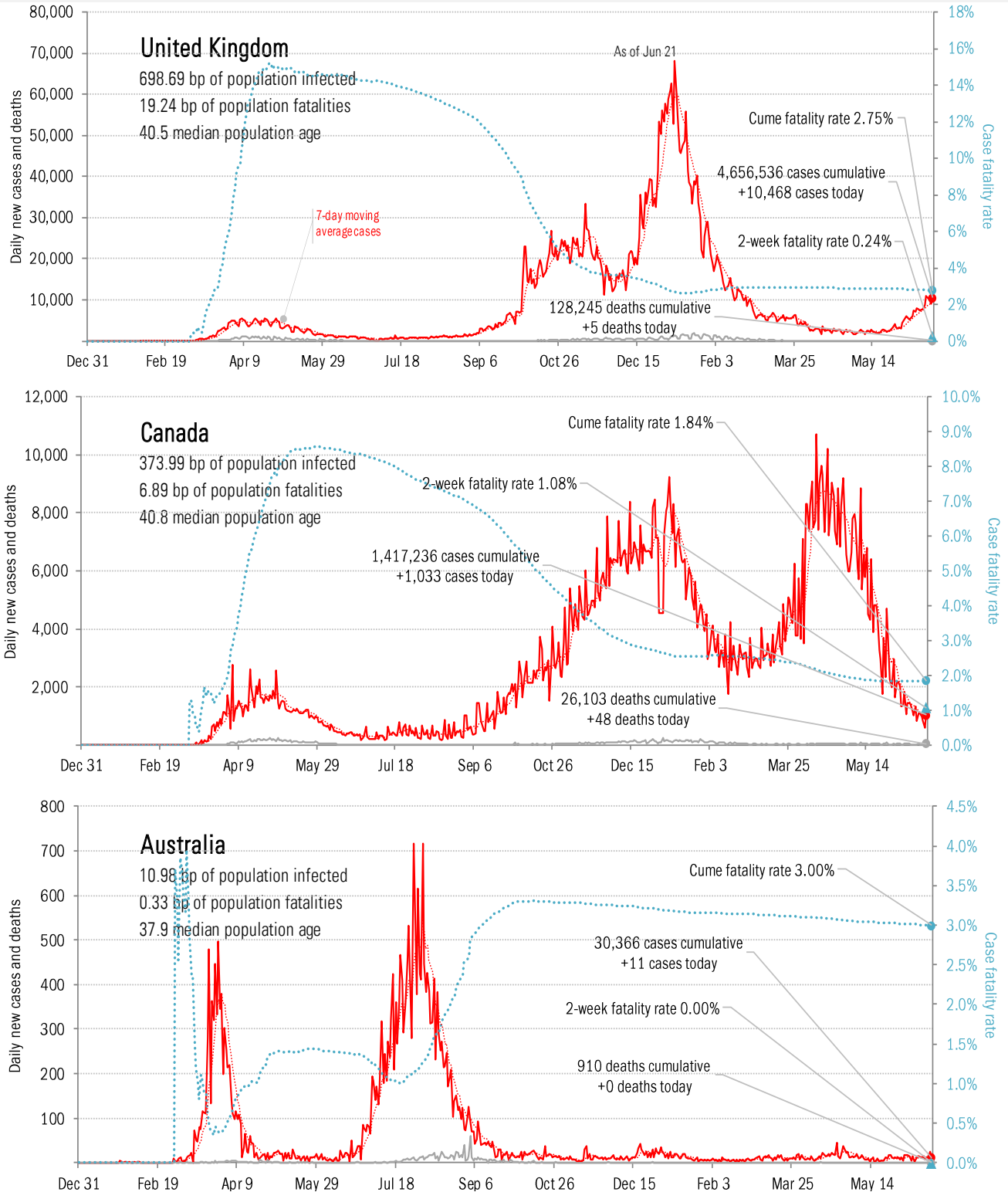
Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies



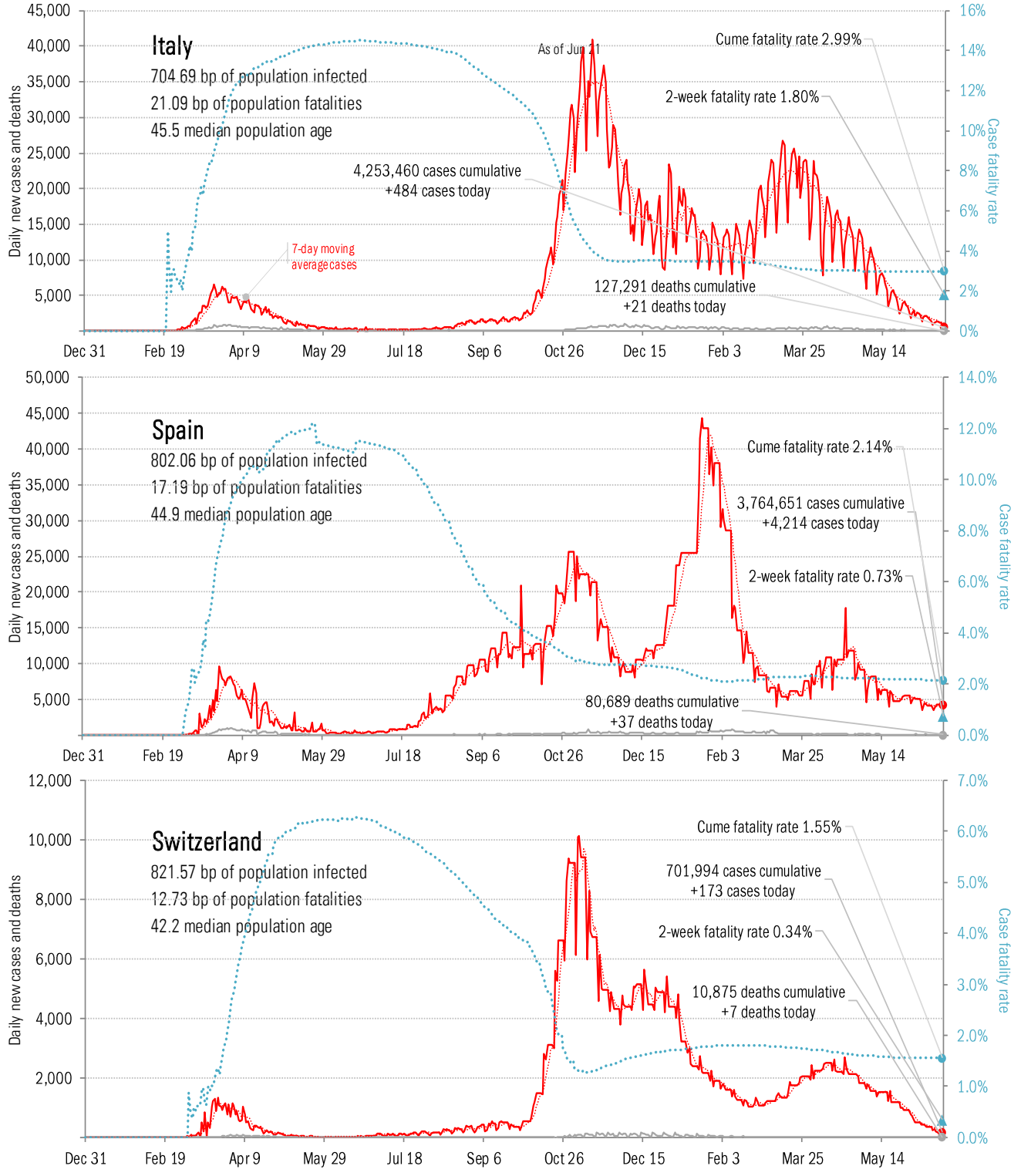
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



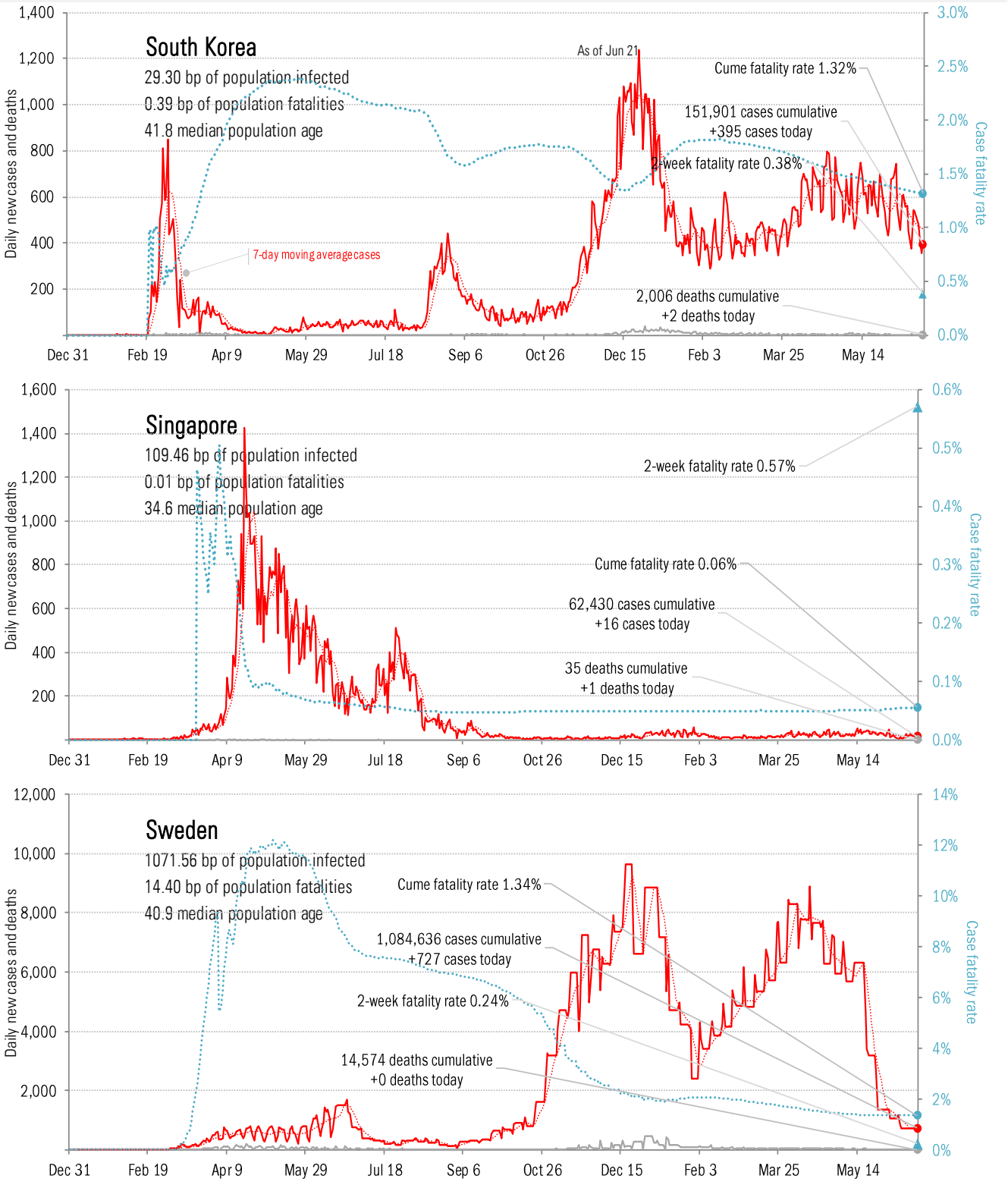
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



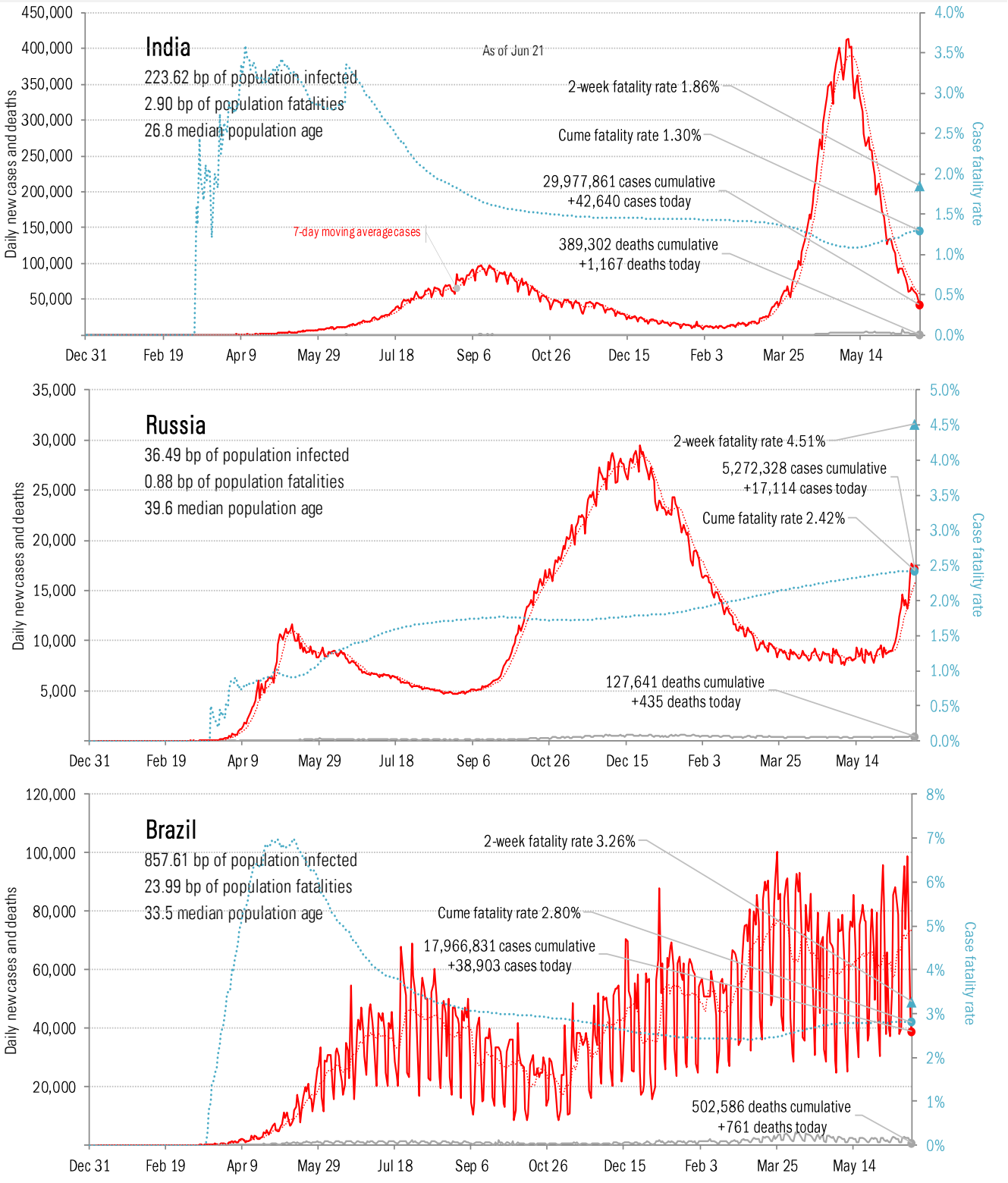
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



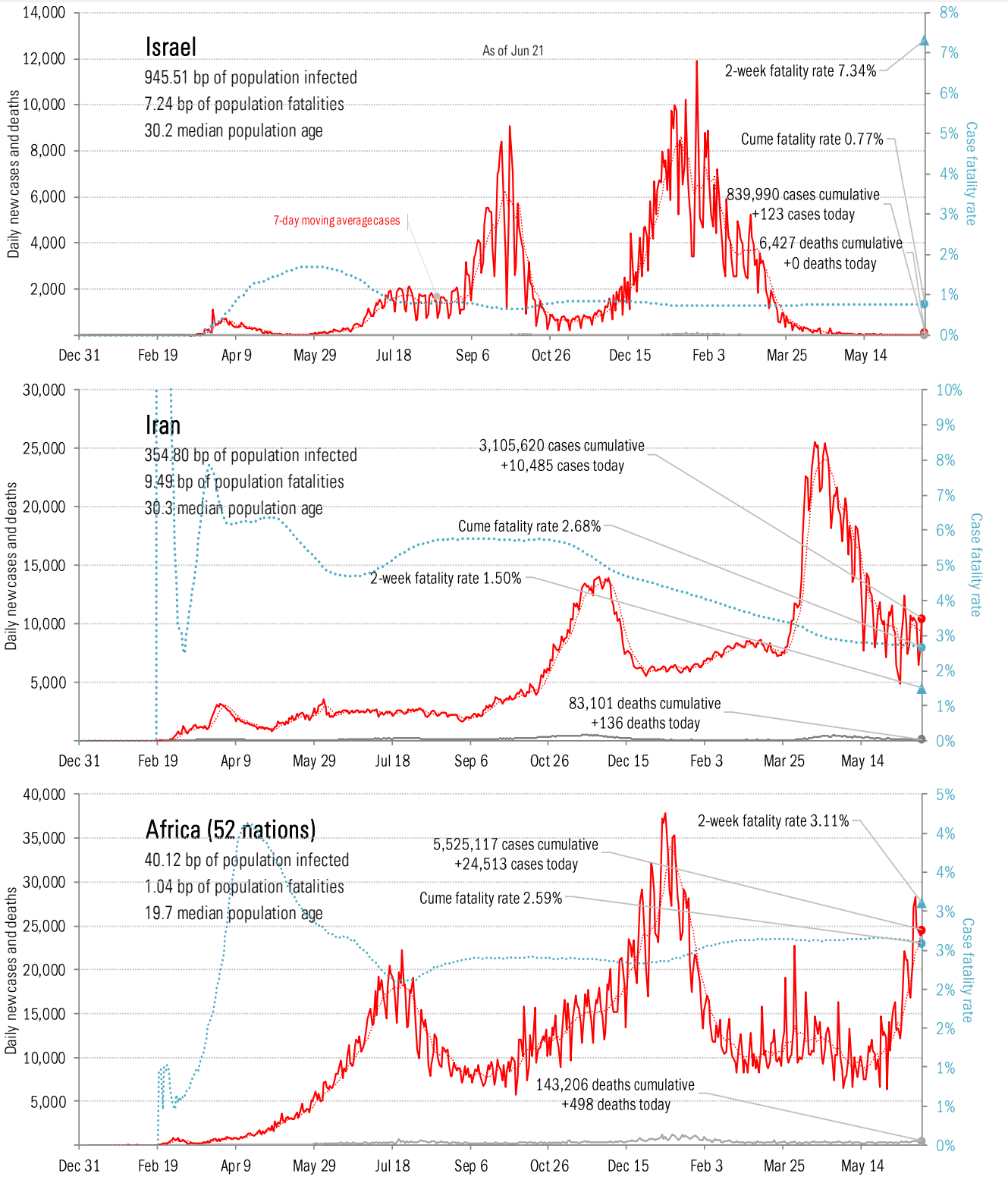
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



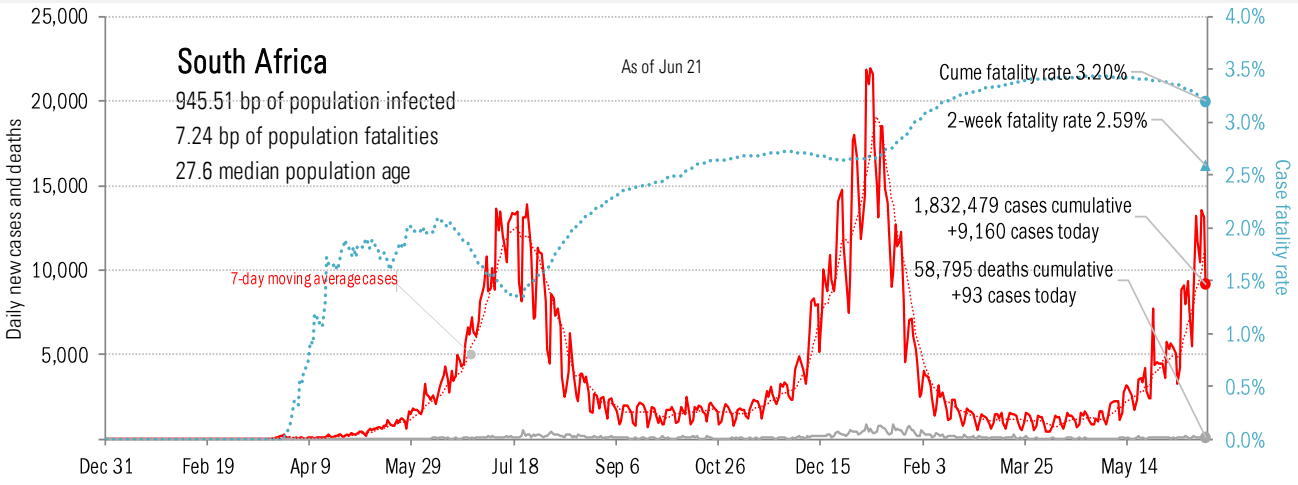
Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued



Source: Johns Hopkins, TrendMacro calculations