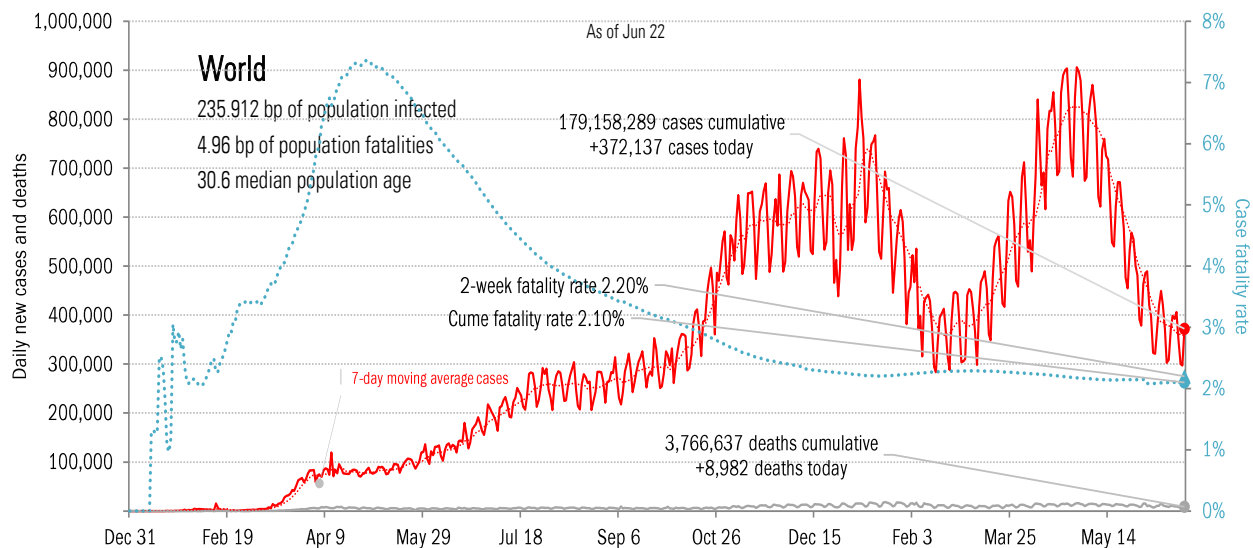
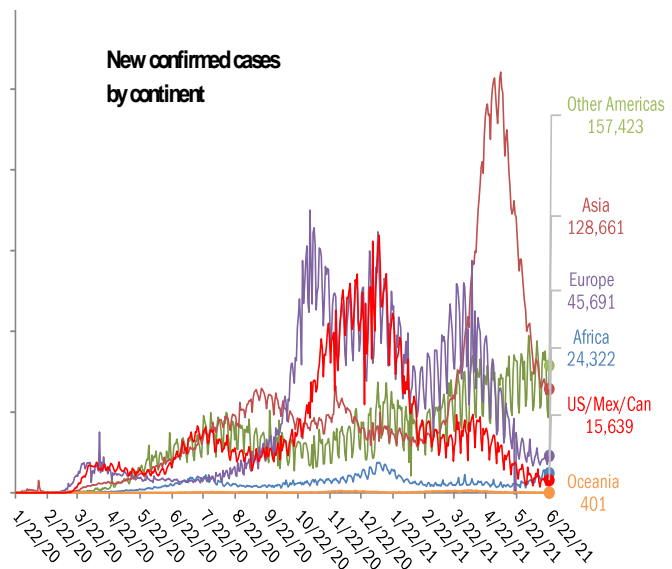


Data Insights: Covid-2019 Monitor

Wednesday, June 23, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
Brazil	+87,822	Brazil	+2,131
India	+50,848	India	+1,358
Colombia	+28,616	Argentina	+791
Argentina	+21,387	Colombia	+720
Russia	+16,438	Russia	+539
Indonesia	+13,668	United States	+370
Iran	+11,716	Indonesia	+335
United Kingdom	+11,507	South Africa	+297
South Africa	+11,093	Mexico	+261
United States	+10,940	Iran	+116
+264,035		+6,918	
World +372,137		World +8,982	
Top ten 71%		Top ten 77%	



Source: [Johns Hopkins](#), TrendMacro calculations

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

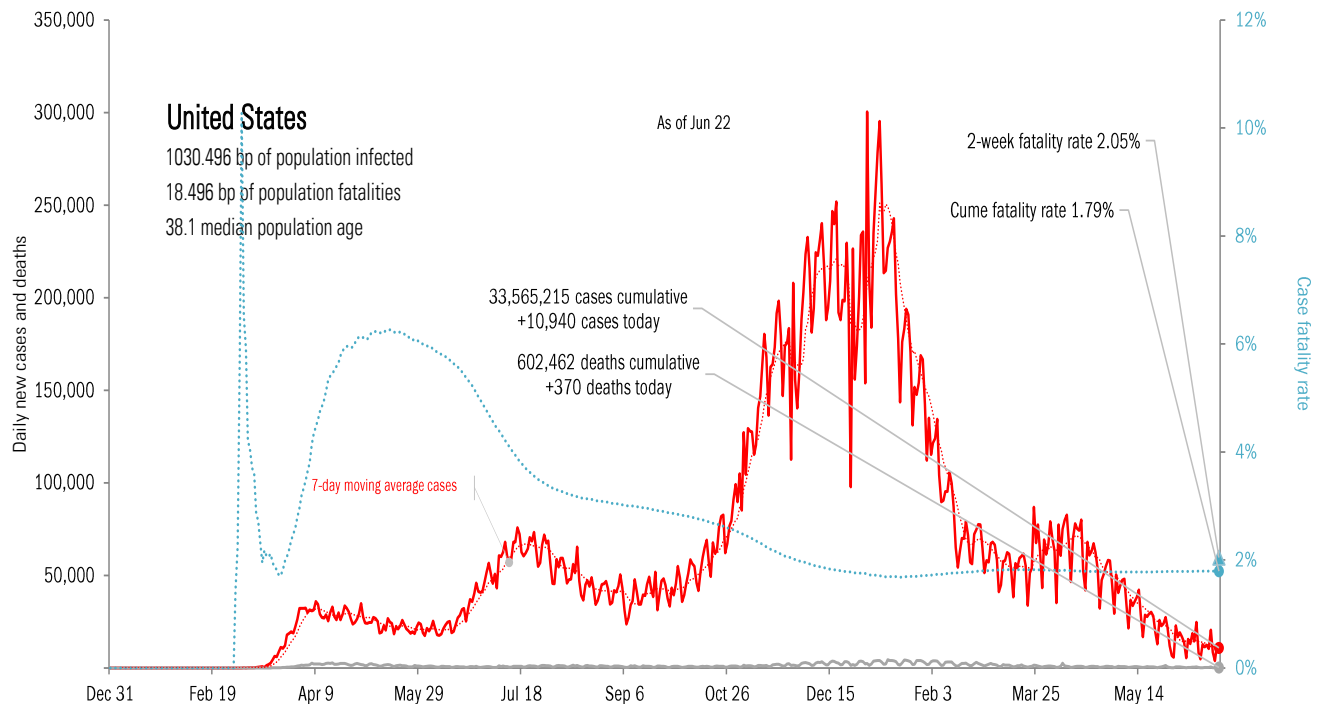
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
TX	+1,974		FL	+59		KY	+89		CA	3,810,808		CA	63,373		TX	252,386		R	92%	MO	14%
FL	+1,442		CH	+47		GA	+48		TX	2,988,388		NY	53,632		CA	239,030		MA	85%	WY	14%
CA	+1,098		PA	+36		AR	+15		FL	2,354,025		TX	52,150		FL	184,986		MO	82%	UT	11%
MO	+785		TX	+32		IL	+11		NY	2,112,388		FL	37,534		NY	136,011		PA	82%	CO	11%
AR	+485		NY	+18		MO	+7		IL	1,389,634		PA	27,604		GA	108,528		CA	81%	ID	10%
AZ	+422		CA	+17		NV	+7		PA	1,215,239		NJ	26,392		PA	91,346		MD	81%	AR	10%
WA	+418		AZ	+15		AZ	+6		GA	1,131,583		IL	25,598		CH	87,353		CT	81%	WA	9%
NV	+400		MO	+15		CA	+6		CH	1,109,374		GA	21,329		IL	82,191		MIN	79%	OK	8%
CO	+383		NJ	+15		CT	+6		NJ	1,021,554		MI	20,912		KY	77,454		MI	78%	TX	8%
GA	+351		MI	+14		UT	+6		NC	1,011,100		CH	20,213		#N/A	0		FL	78%	NV	8%
+7,758			+268			+201			18,144,093			348,737			1,259,285						
All states	+12,382		+429			+17			All states	33,565,215		602,462			2,372,046			All states	70%	67%	
Top ten	63%		62%			1182%			Top ten	54%		58%			53%			Median	73%	5%	

Some states not reporting

Five most improved US states

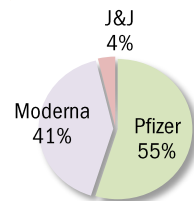
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
IL	-618	MI	-22	TX	-88	GA	+60 bp
NC	-565	IL	-20	FL	-22	UT	+60 bp
LA	-361	NC	-14	IN	-16	MP	+60 bp
AL	-356	WI	-14	AL	-14	NE	+50 bp
CA	-354	WA	-13	TN	-14	ME	+30 bp



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	Immunity	Full	Partial
Doses distributed	393,036,475				+0.446 million	US	45.0%	53.1%
Doses administered	328,664,219				+0.648 million	UK	46.4%	63.6%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	25.5%	47.7%
Total population	182,231,072	55%	154,508,446	46%	+0.379 million	Spain	31.5%	50.1%
Age 12 to 17	8,282,634	33%	5,798,530	23%	+0.079 million	Germany	32.2%	51.2%
Age 18 to 64	124,410,359	61%	104,876,317	52%	+0.265 million	Italy	27.0%	53.0%
Age 65 and over	49,367,773	90%	43,734,586	80%	+0.033 million	Australia	4.3%	22.1%



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



At today's dosing pace, every American >18 immune in **236 days** by Feb 12, 2022
 71.1% of population >18 immunized
 14.1% previously tested positive
85.2% vs 60% adult herd immunity*

Global data differs from sources, timing

China NA

AK
60.7%
47.9%
41.8%

ME
72.3%
65.9%
60.2%

WI	VT	NH								
54.9%	77.4%	71.0%								
53.0%	73.3%	61.7%								
48.0%	64.4%	54.9%								
WA	ID	MT	ND	MN	IL	MI	NY	MA		
64.4%	49.2%	54.8%	48.9%	60.6%	60.7%	61.0%	64.0%	73.1%		
60.2%	39.1%	47.2%	43.4%	56.4%	58.4%	50.9%	59.1%	69.6%		
52.9%	35.3%	41.6%	38.3%	50.3%	44.5%	46.1%	52.3%	60.1%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
70.2%	52.2%	47.3%	57.3%	57.3%	52.4%	55.4%	64.7%	67.7%	69.1%	73.6%
57.8%	48.4%	38.7%	50.0%	50.9%	43.9%	47.8%	62.0%	64.1%	66.2%	63.8%
51.7%	40.7%	33.7%	44.7%	47.1%	39.1%	43.7%	48.6%	54.9%	59.1%	57.4%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
64.9%	52.7%	63.5%	56.3%	51.9%	52.4%	55.5%	63.1%	72.8%	68.5%	
60.2%	47.9%	57.1%	50.4%	44.2%	48.8%	42.8%	58.3%	60.6%	57.3%	
48.4%	36.5%	50.3%	45.7%	38.1%	42.3%	36.5%	50.5%	54.0%	48.1%	
AZ	NM	KS	AR	TN	NC	SC	DC			
58.1%	59.3%	55.5%	49.6%	55.8%	58.4%	54.0%	78.6%			
48.8%	60.9%	48.6%	41.2%	41.0%	44.7%	43.0%	60.3%			
39.2%	52.5%	41.0%	33.4%	34.6%	38.7%	37.1%	50.8%			
OK	LA	MS	AL	GA						
53.3%	45.7%	47.2%	51.4%	54.9%						
44.1%	37.5%	35.7%	39.1%	42.5%						
37.4%	33.8%	29.1%	32.0%	35.4%						
HI	TX	FL	PR							
71.1%	57.6%	61.2%	68.0%							
69.1%	47.4%	52.6%	55.8%							
51.0%	39.9%	44.2%	43.2%							

As of Jun 22

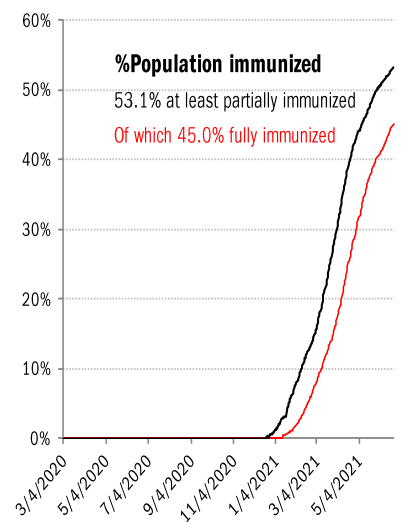
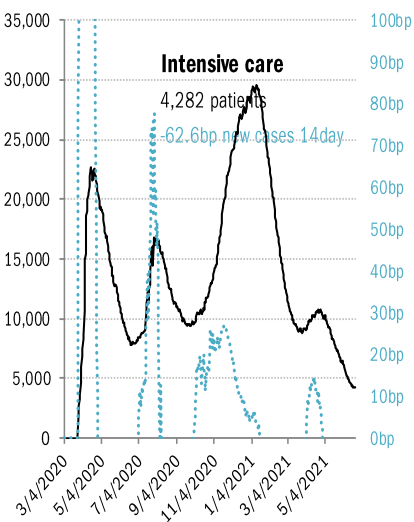
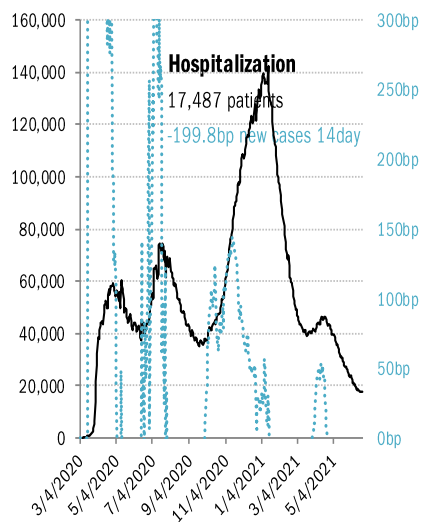
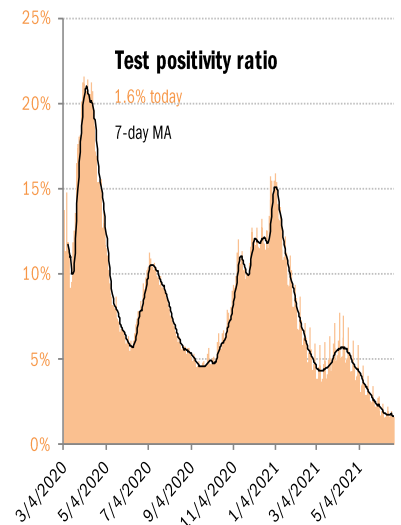
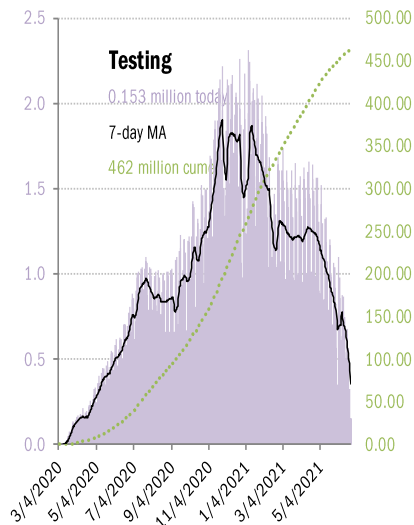
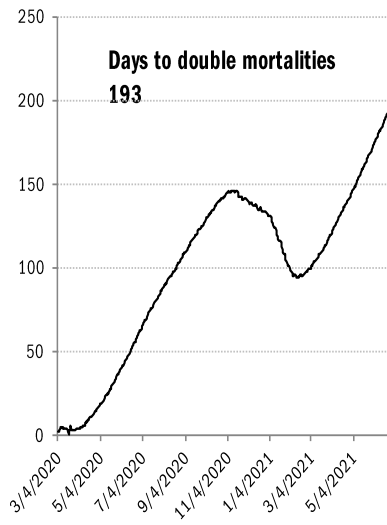
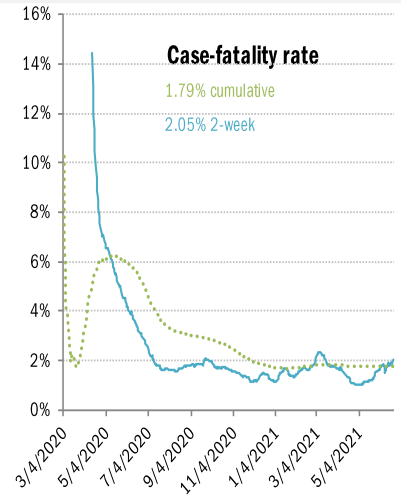
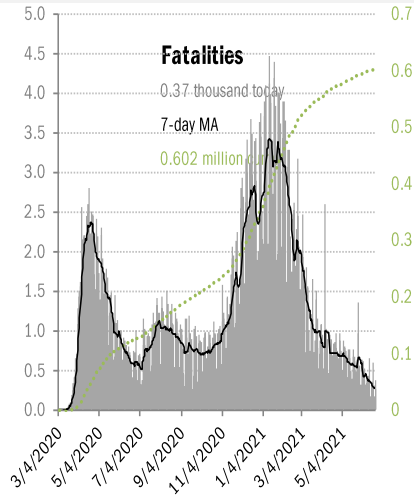
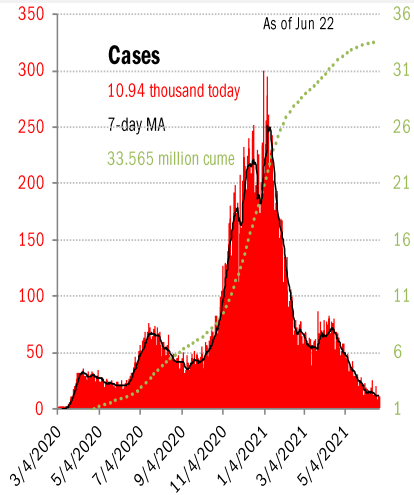
* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.

** 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

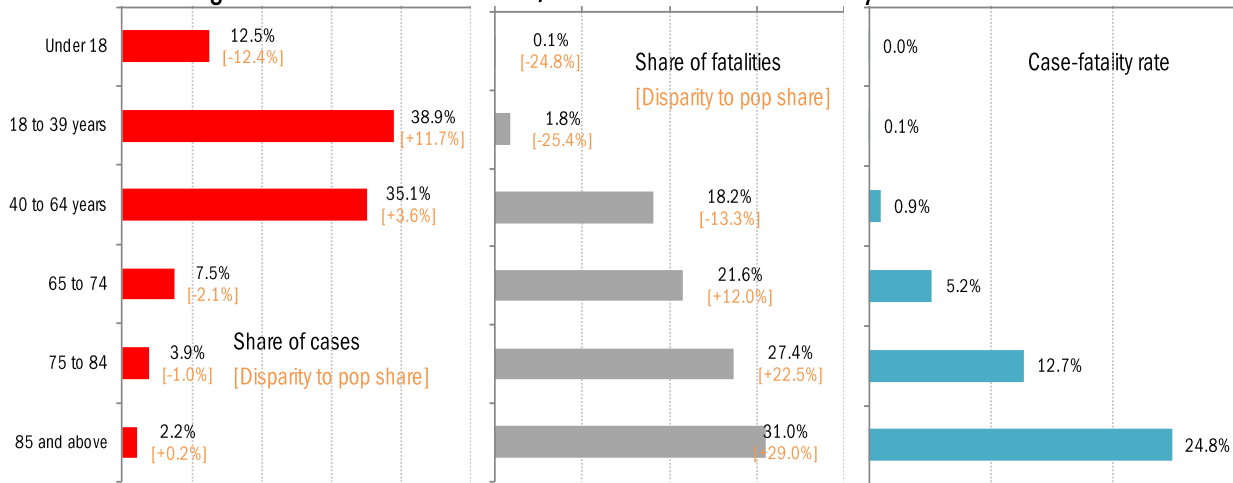
US deep-dive

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

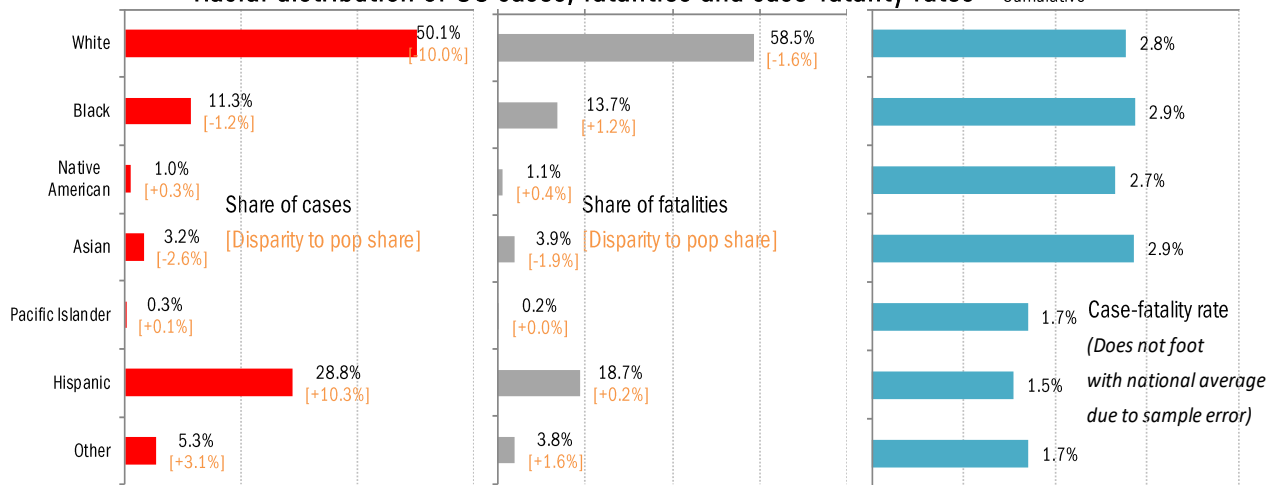


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

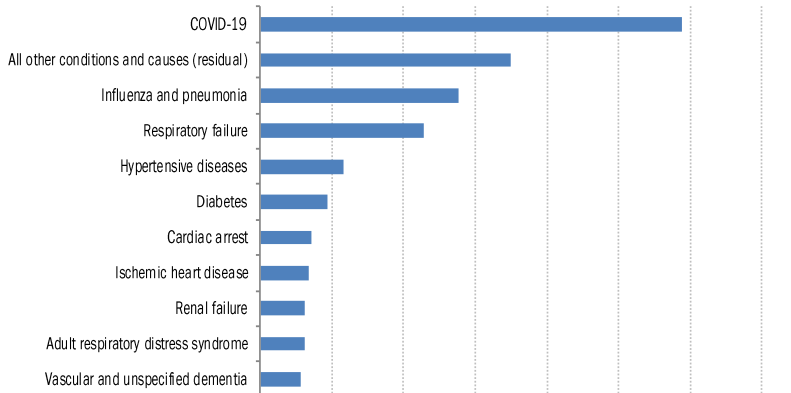


Racial distribution of US cases, fatalities and case-fatality rates



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.

Recommended reading

[With Mass Vaccination Sites Winding Down, It's All About the 'Ground Game'](#)

Sheryl Gay Stolberg
New York Times
June 22, 2021

[No Remorse: China Now Says the Wuhan Lab Deserves a Nobel Prize](#)

Jim Geraghty
National Review
June 21, 2021

[Wuhan Institute of Virology listed as candidate for Outstanding Science and Technology Achievement Prize of CAS](#)

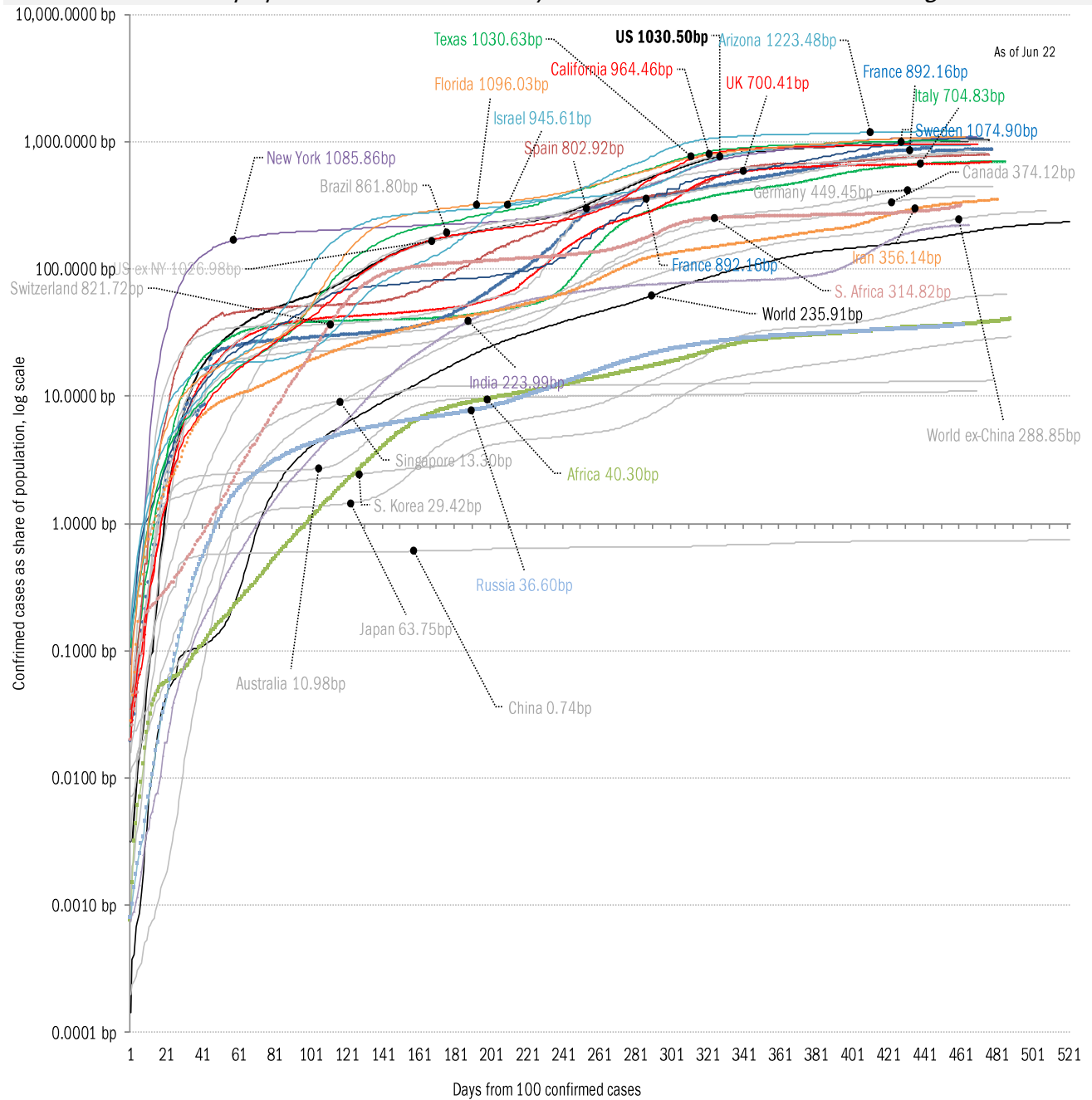
Xu Keyue
Global Times
June 20, 2021

Meme of the day



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

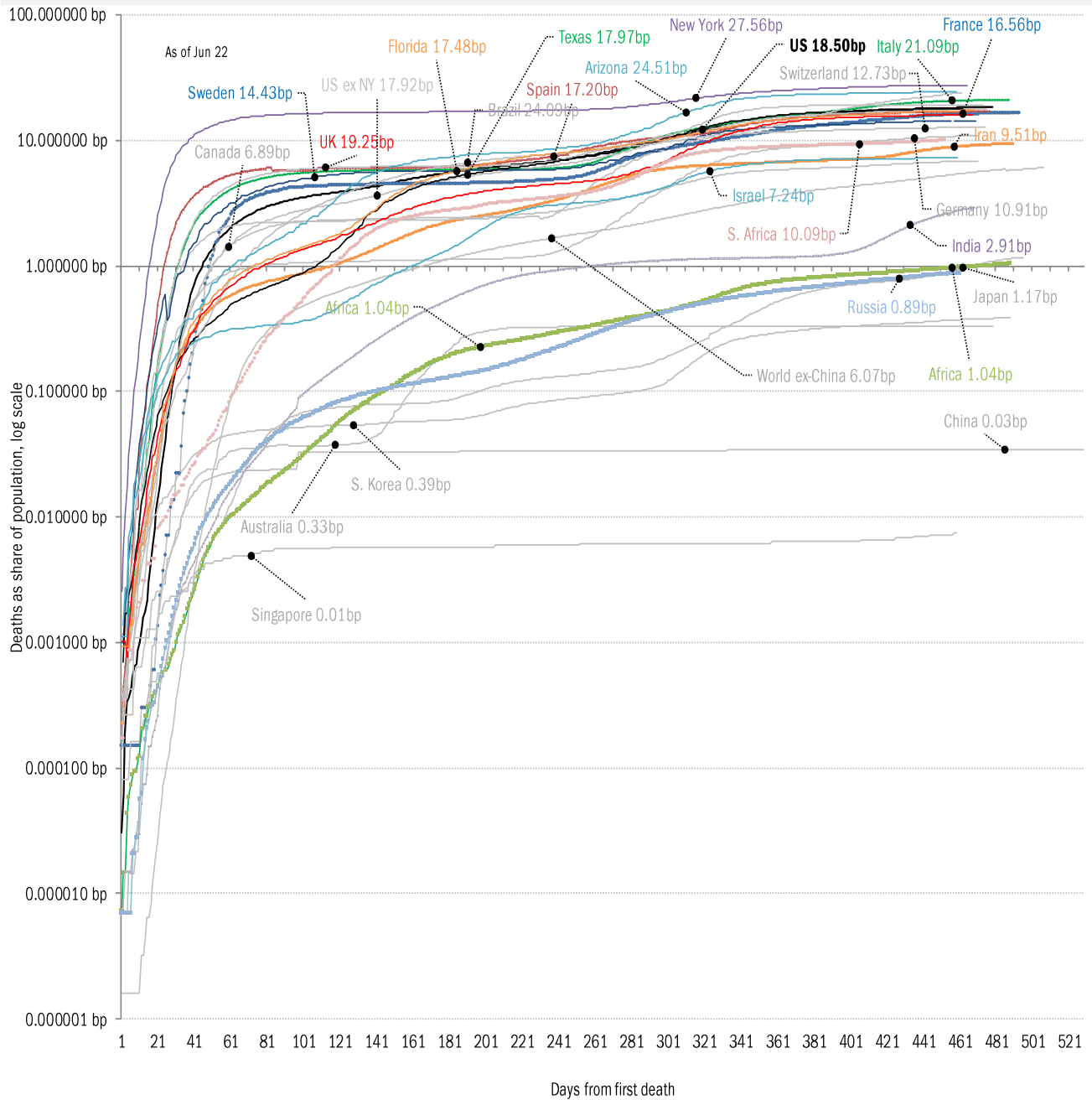
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

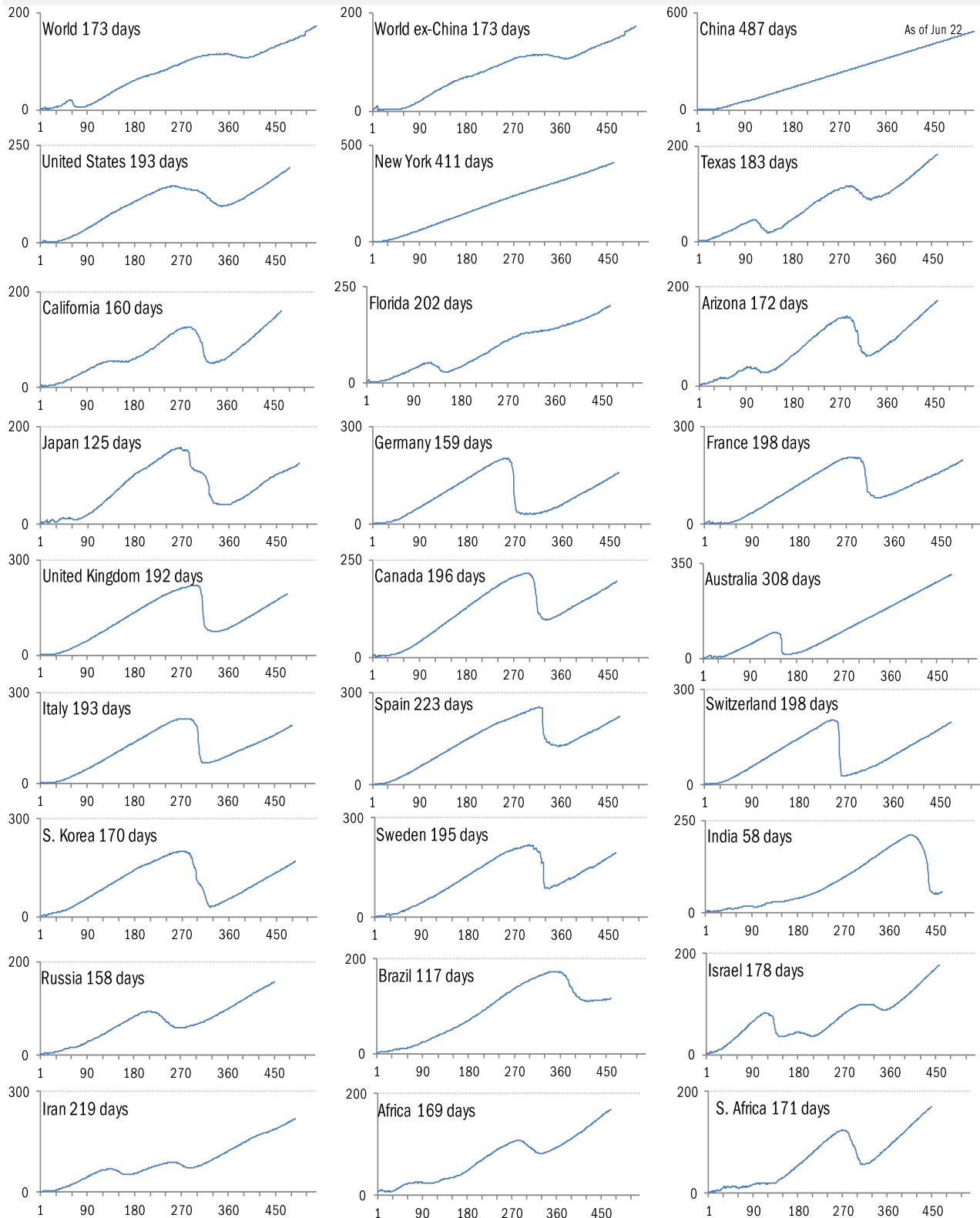


Source: [Johns Hopkins](#), TrendMacro calculations

"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

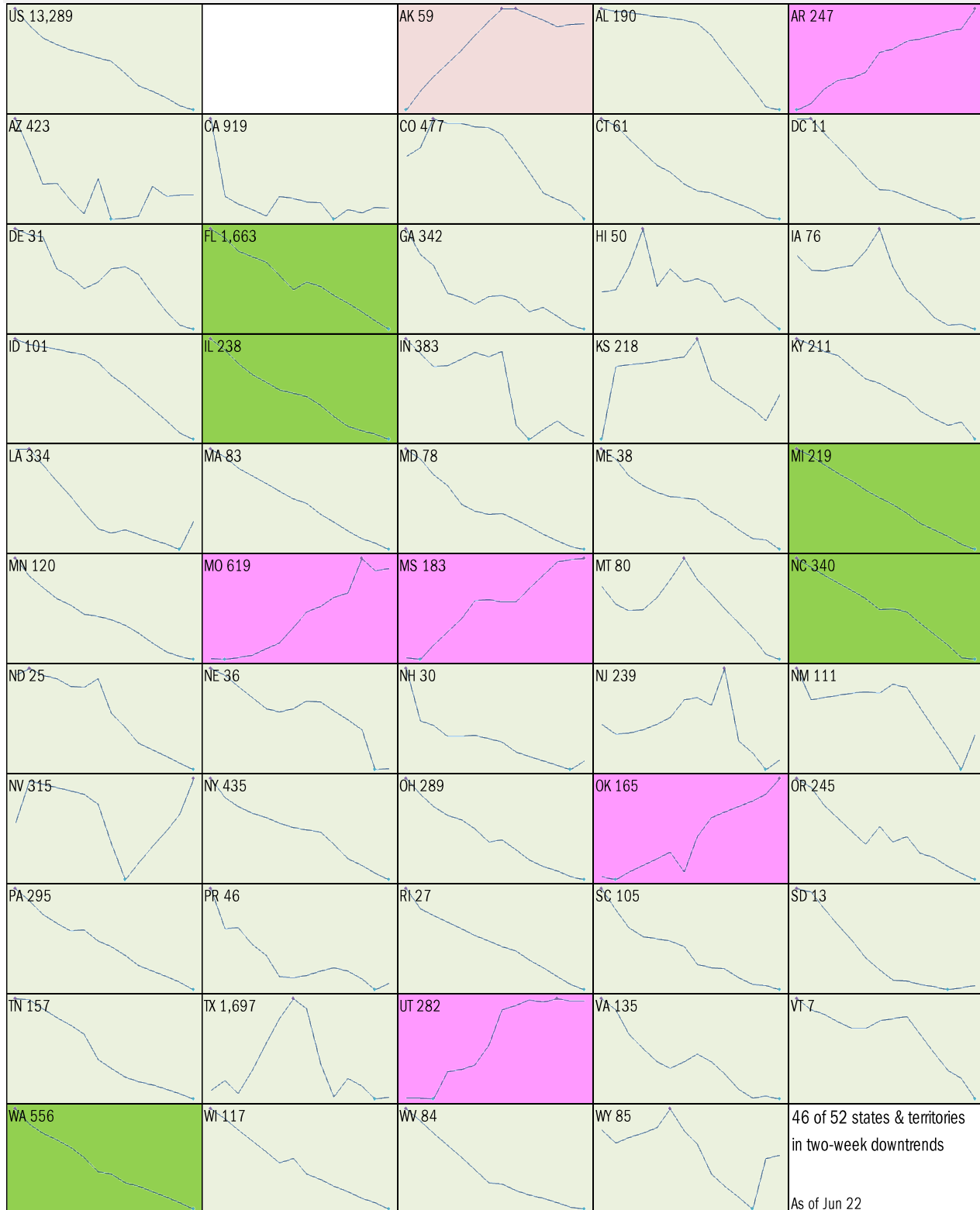


Source: [Johns Hopkins](#), TrendMacro calculations

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

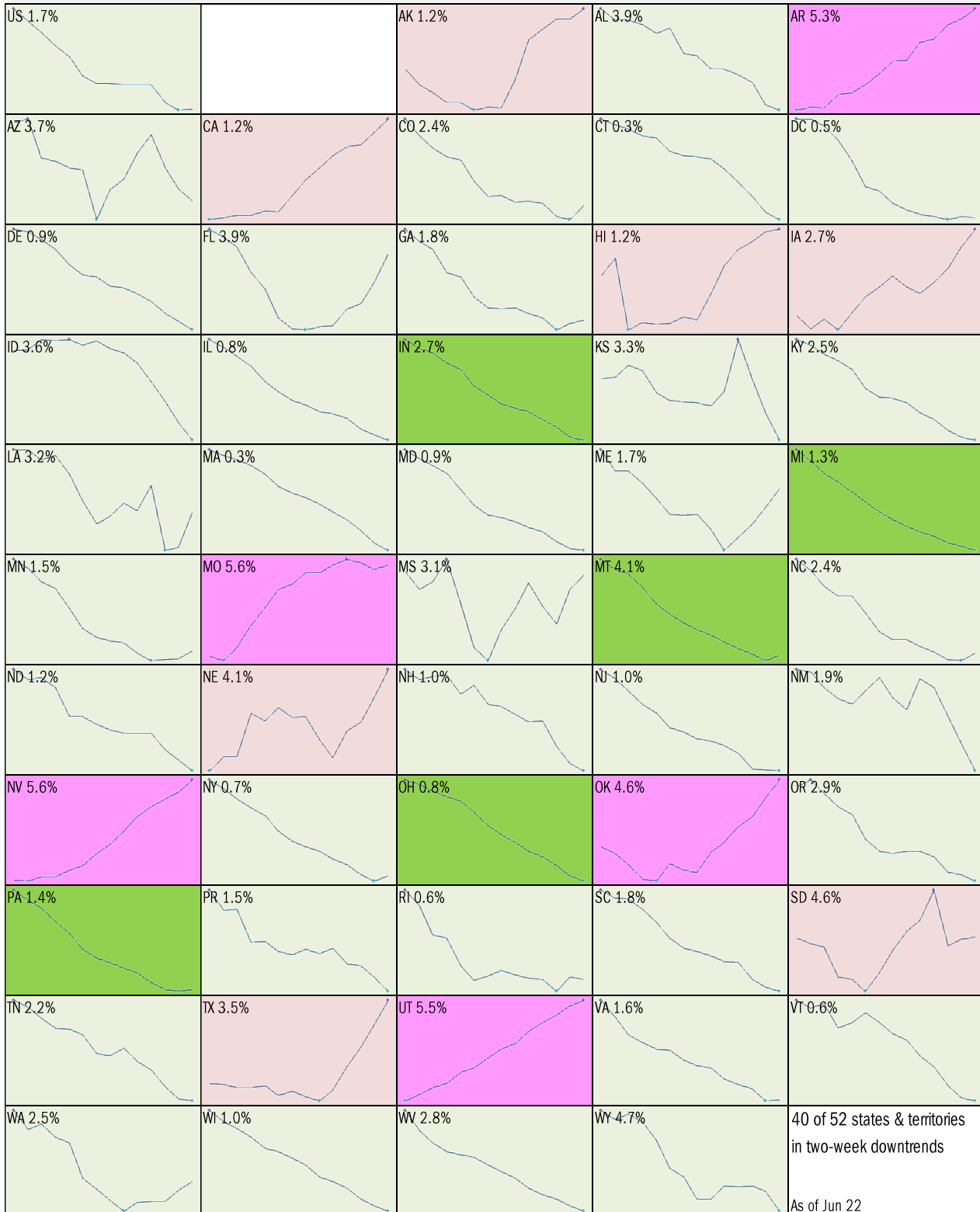


Source: [Johns Hopkins](#), TrendMacro calculations

Alt requirement to [Open Up America Again](#): 14-day "downward trajectory" in pos tests

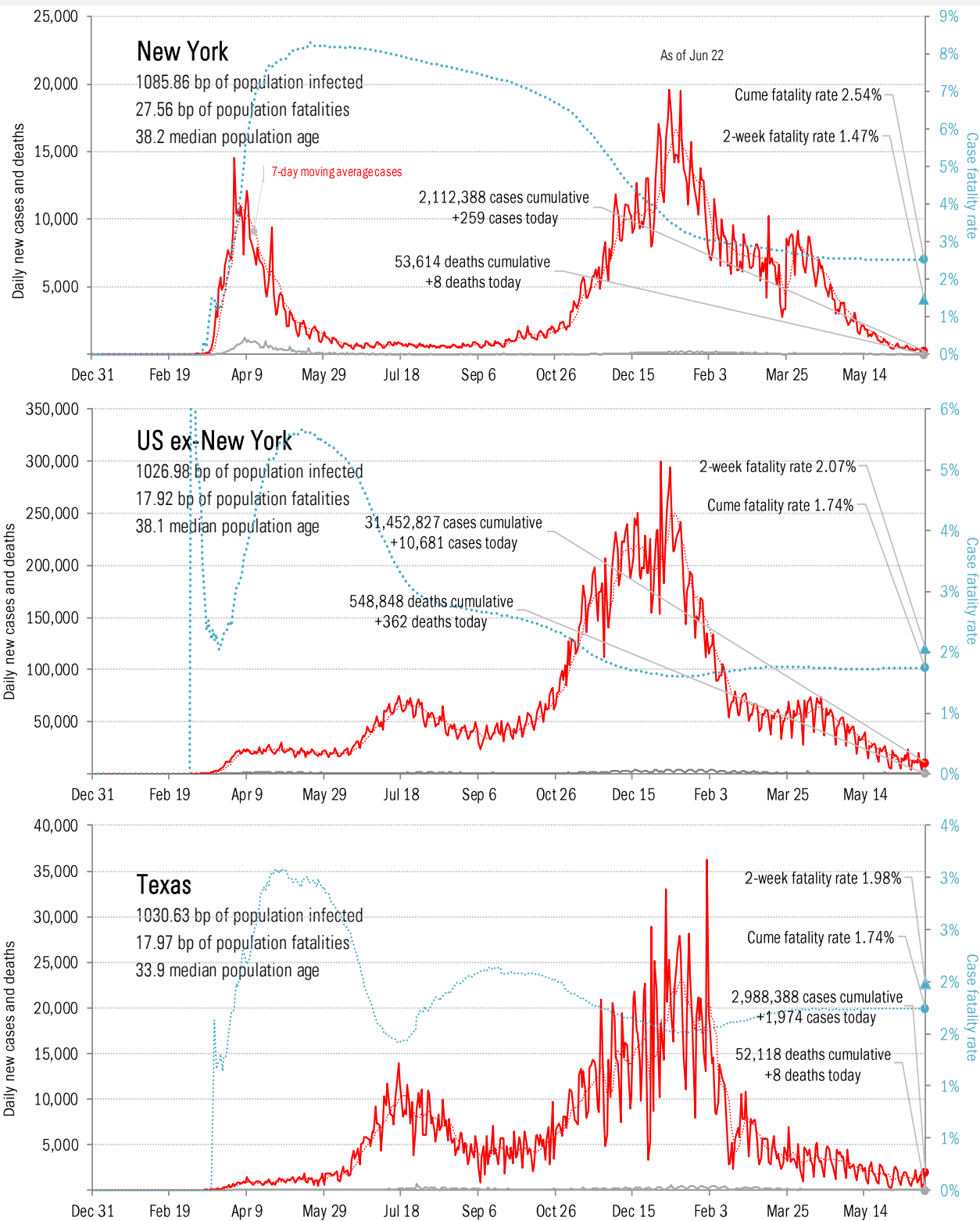
14-day moving average, last 14 days Most recent value displayed ● High ● Low

■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



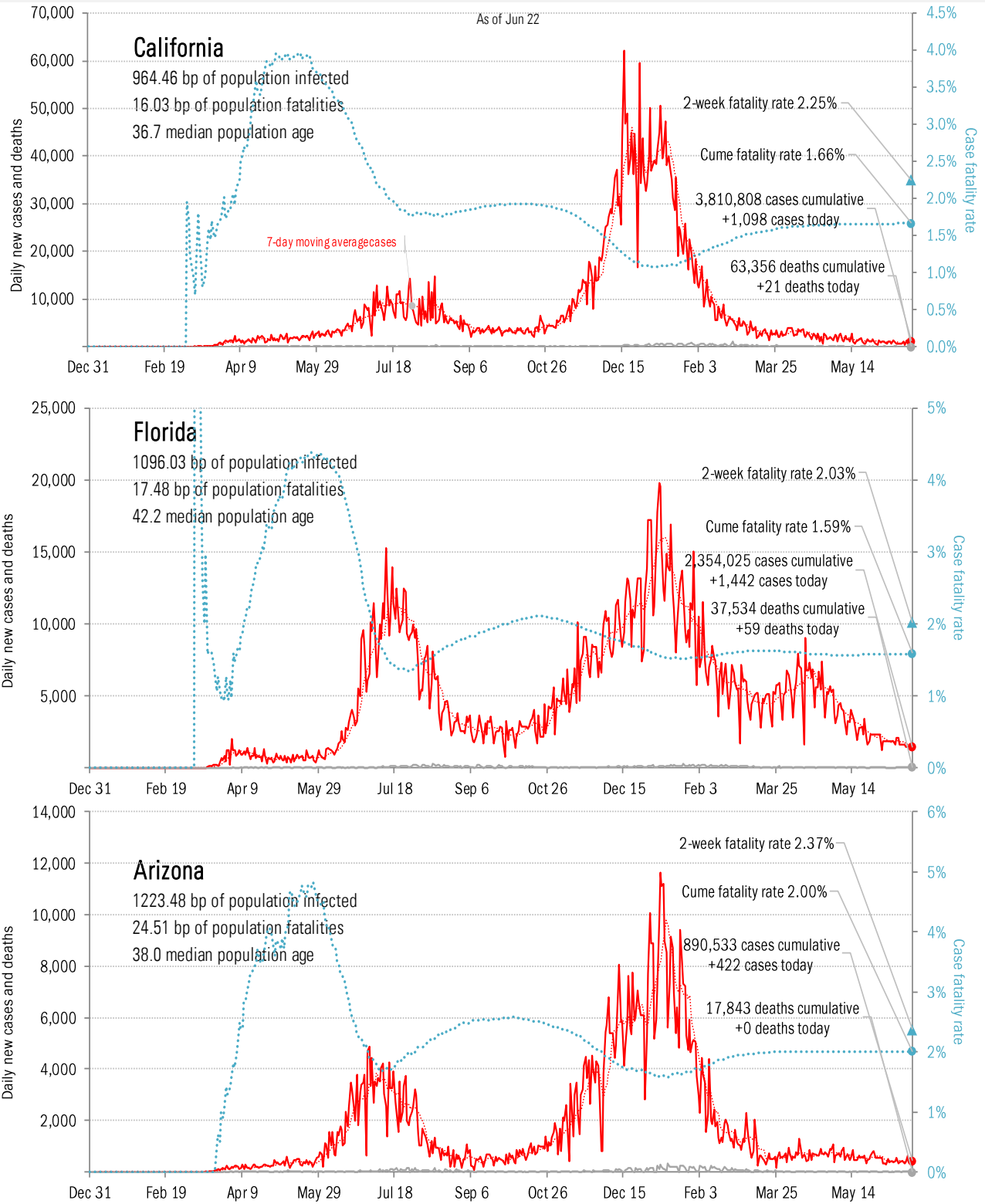
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



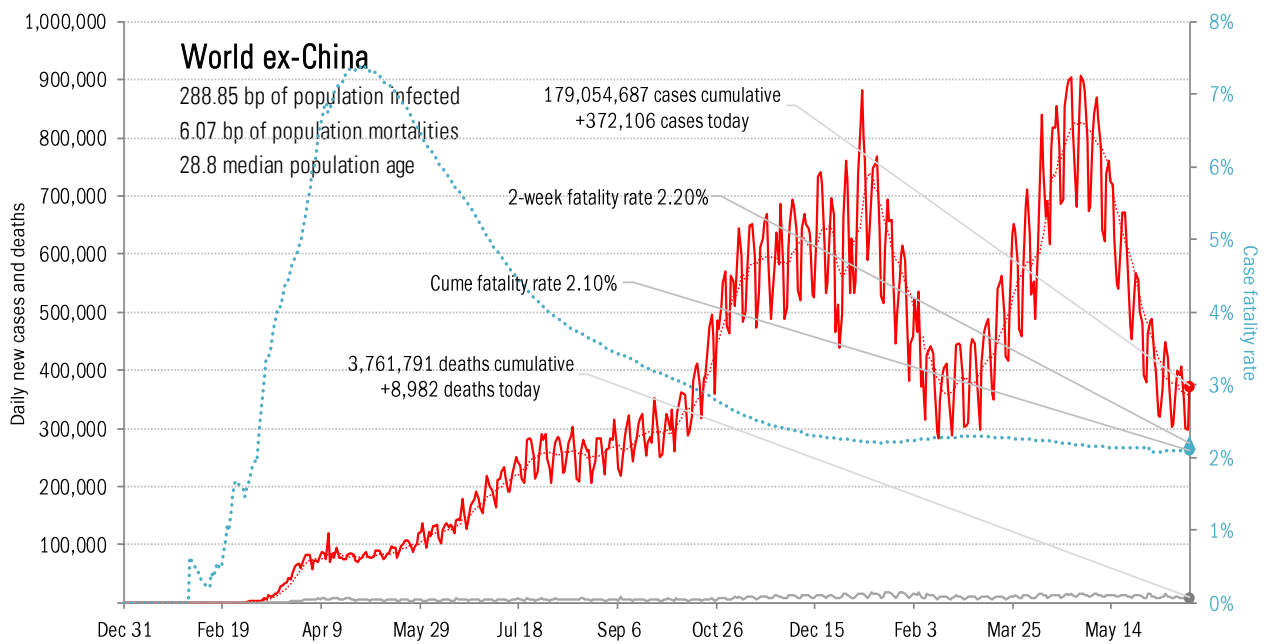
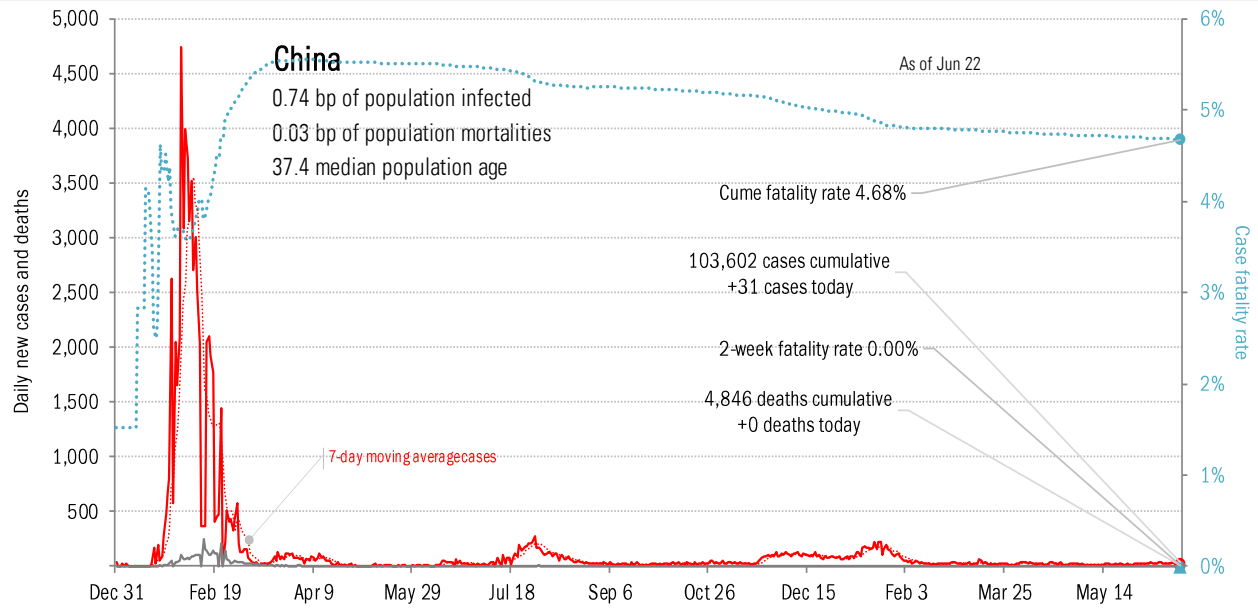
Source: [Johns Hopkins](#), TrendMacro calculations

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



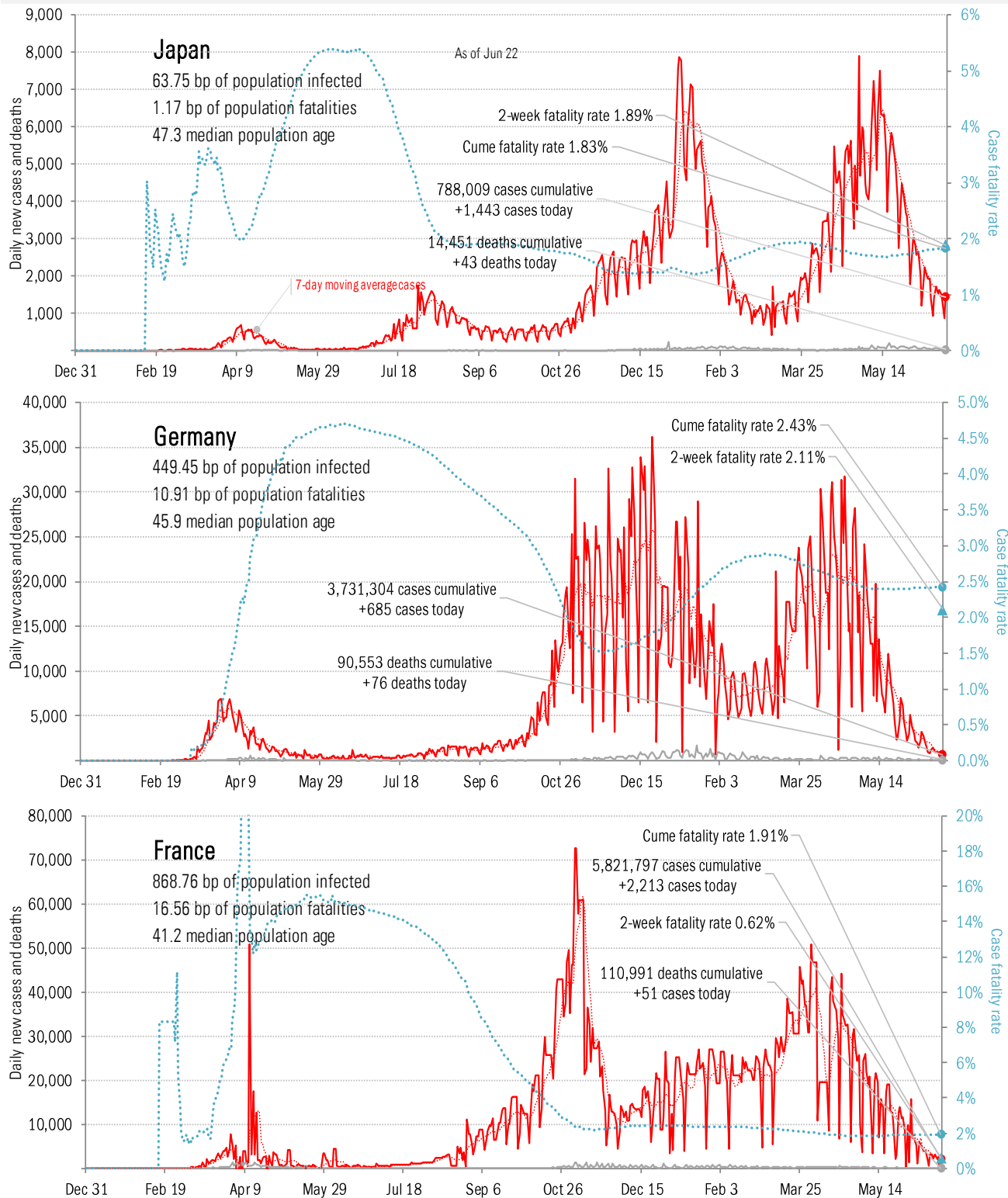
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



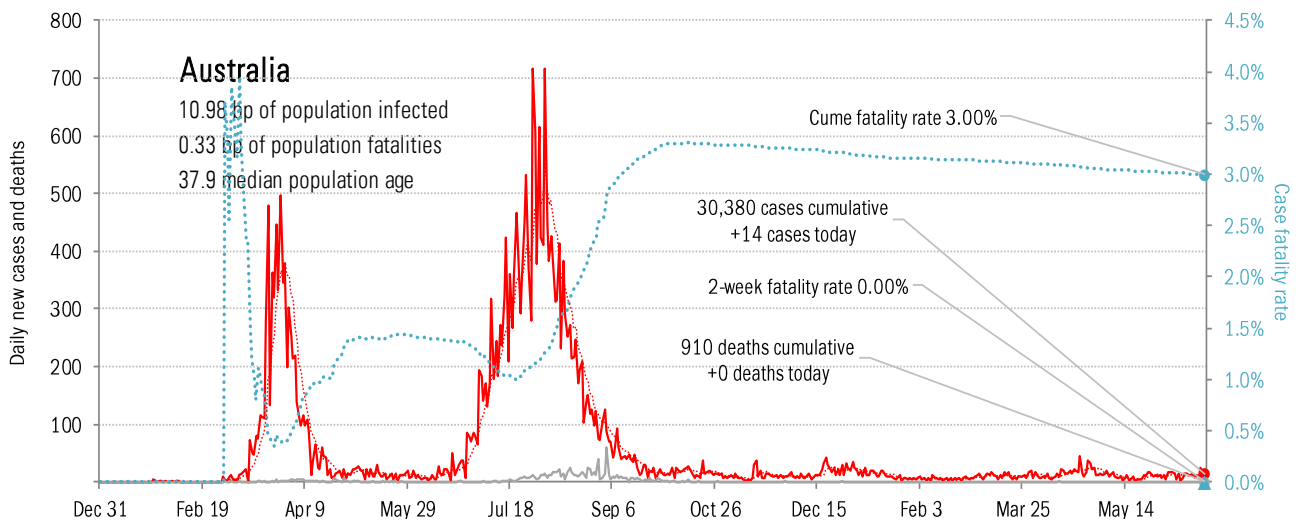
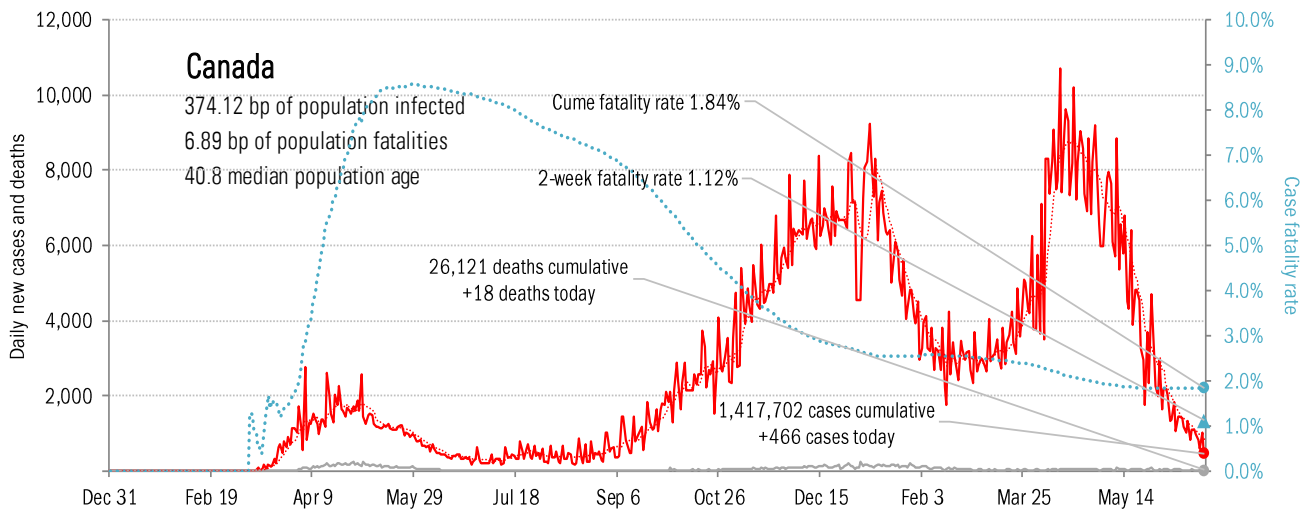
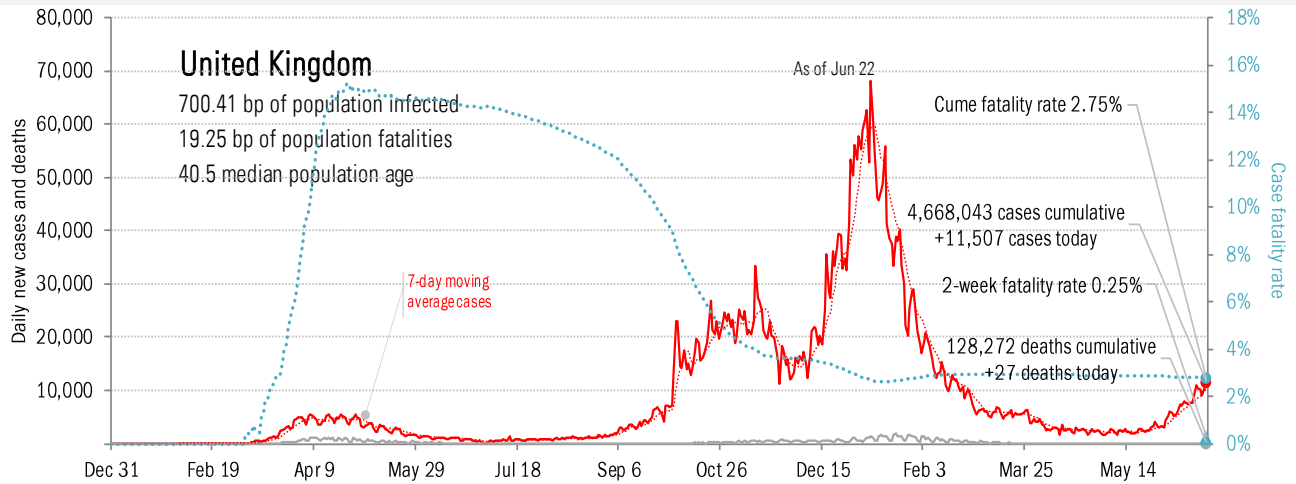
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



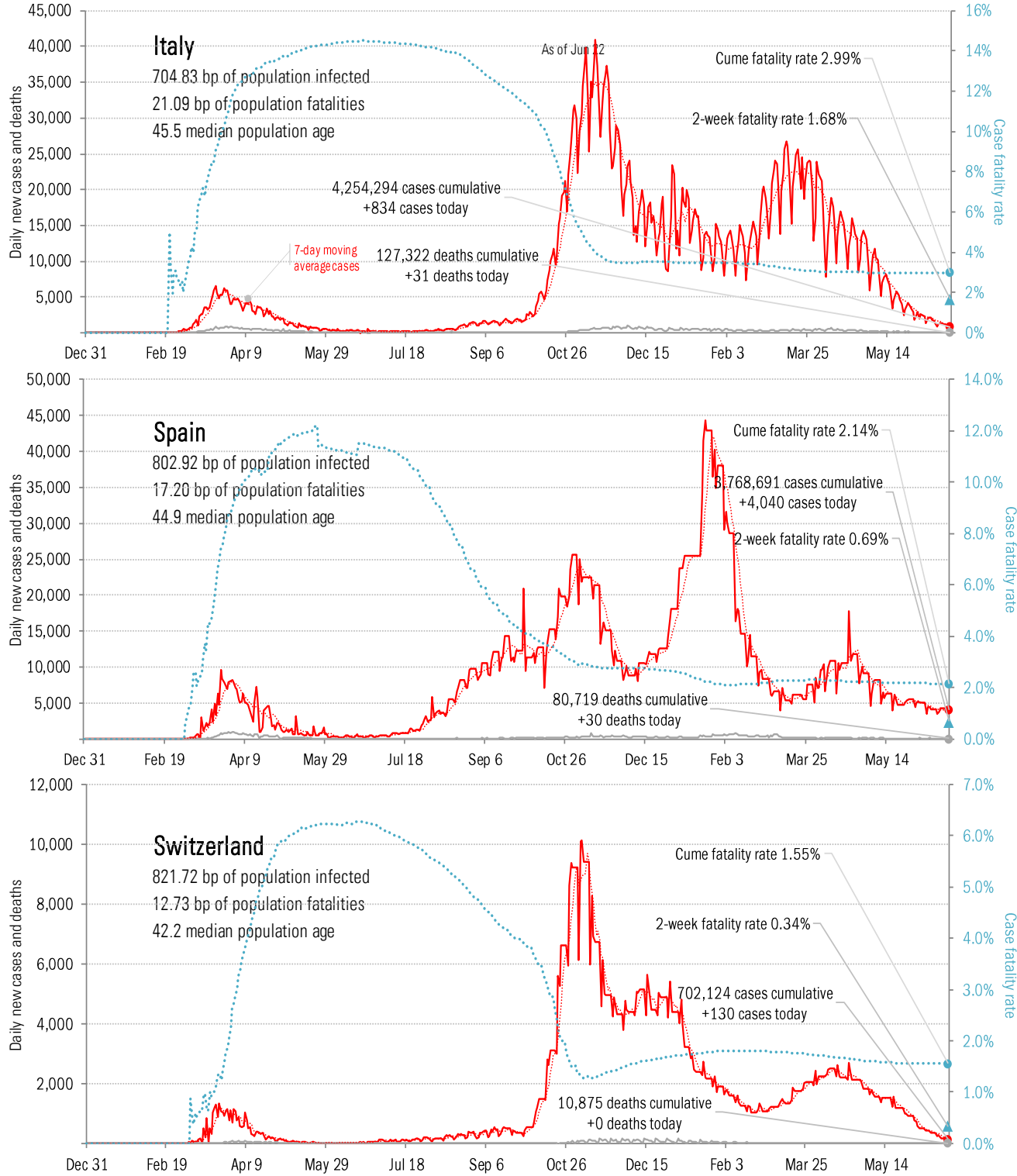
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



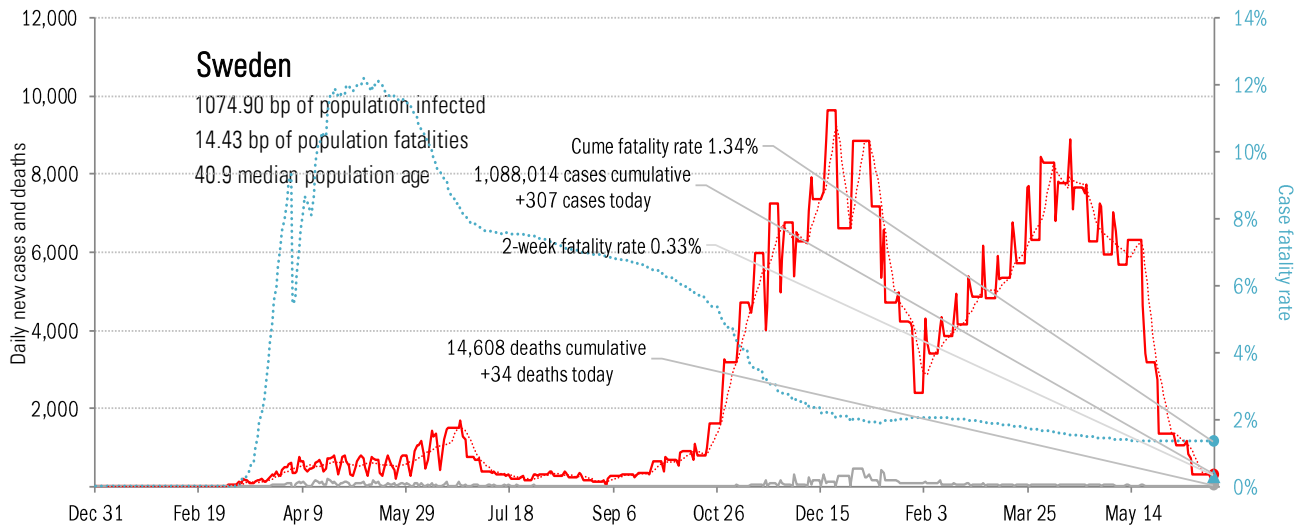
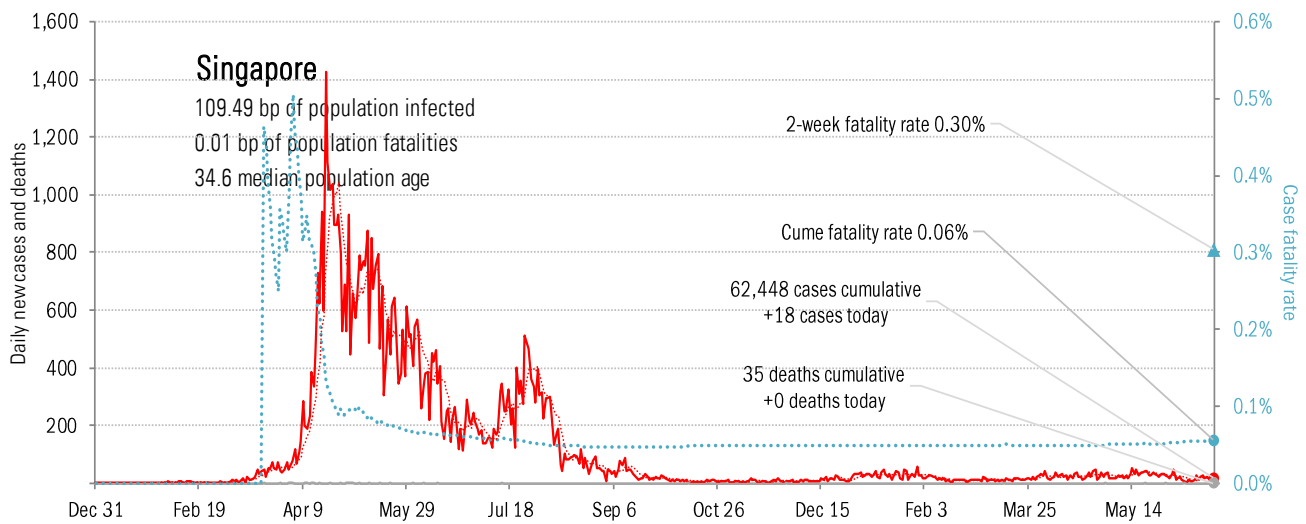
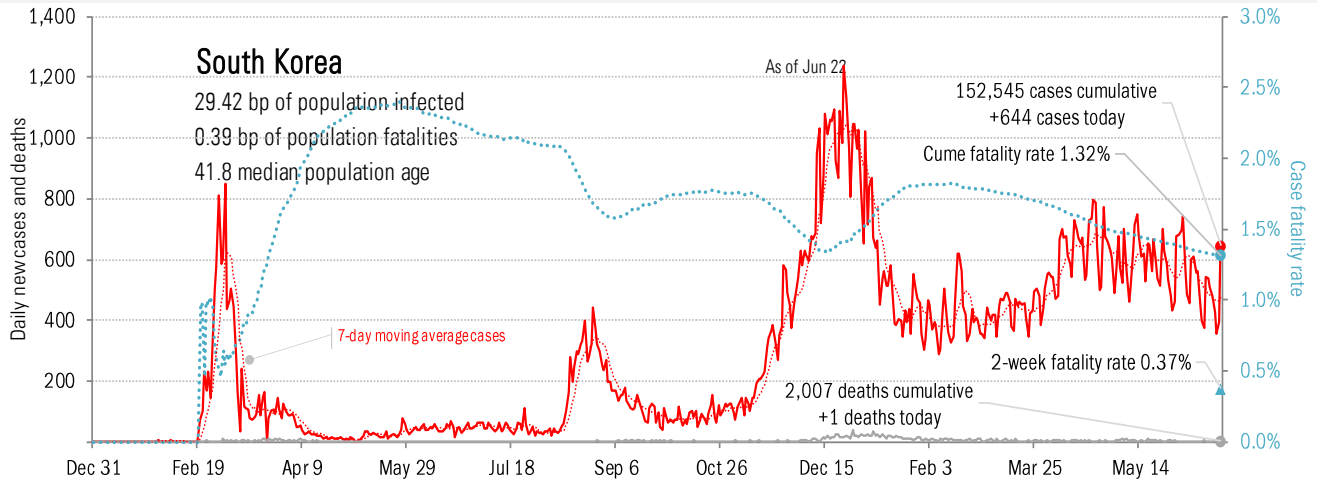
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



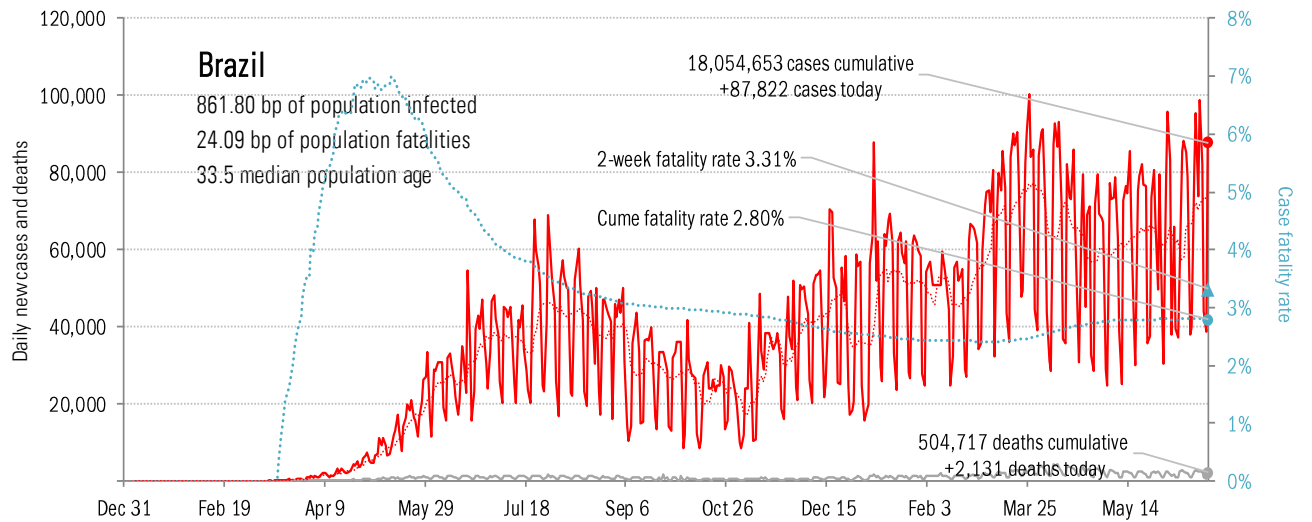
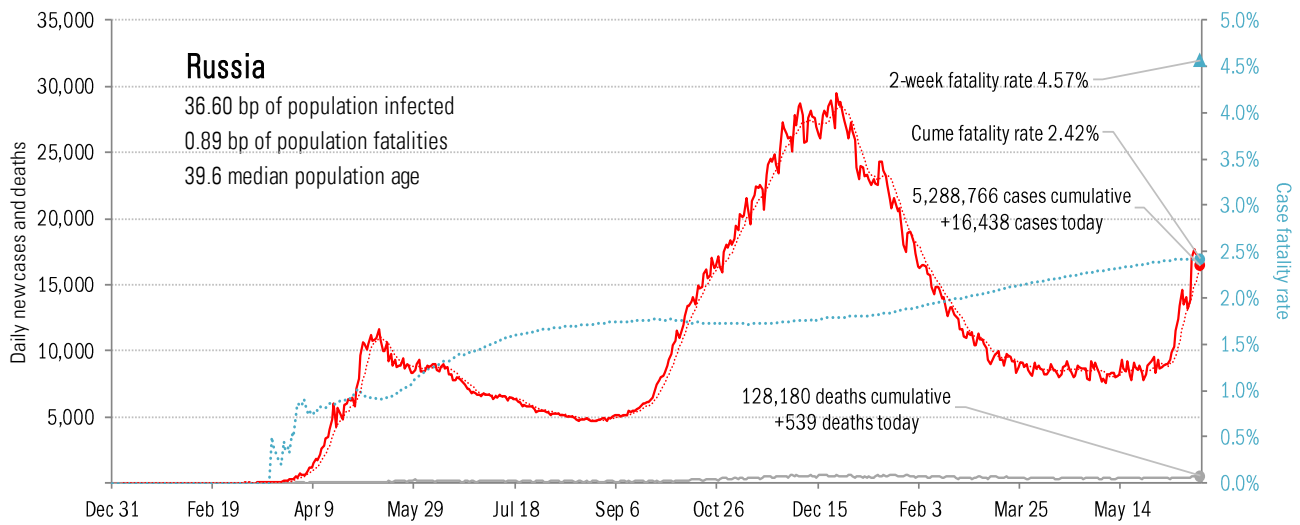
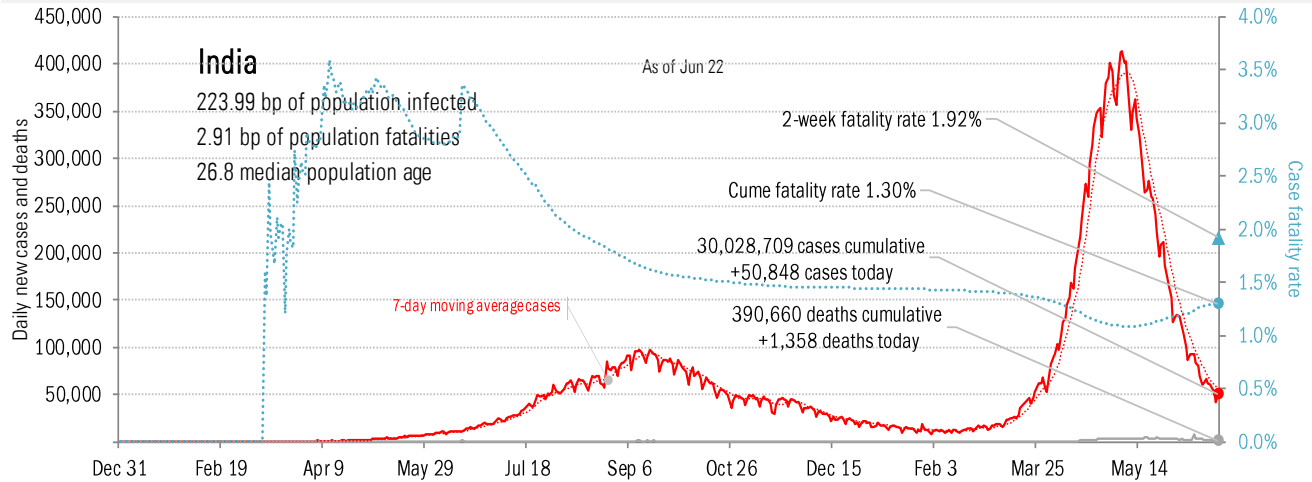
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



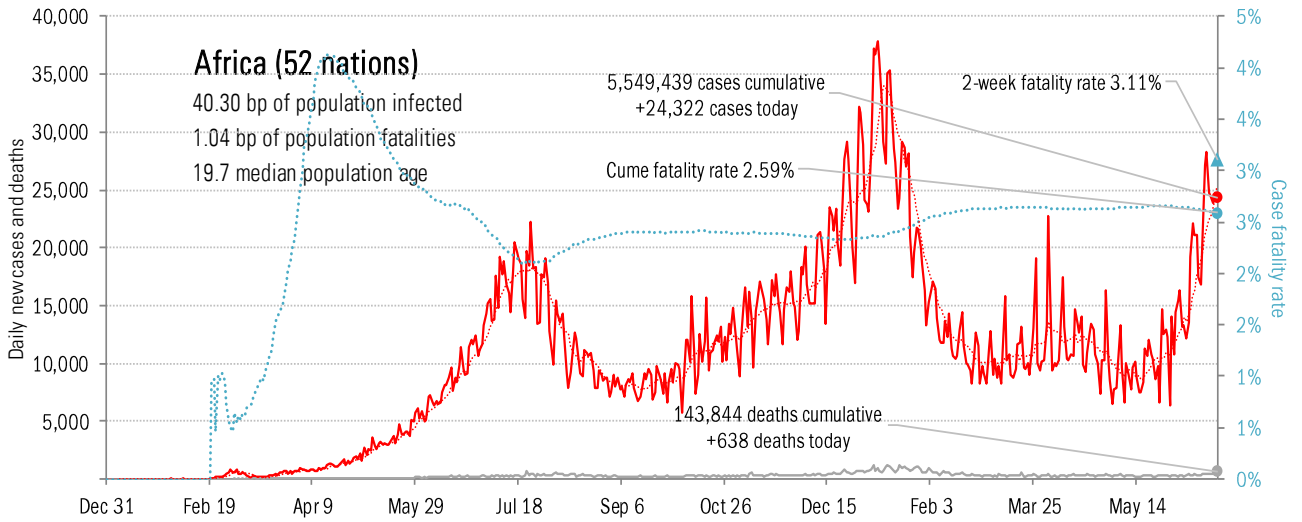
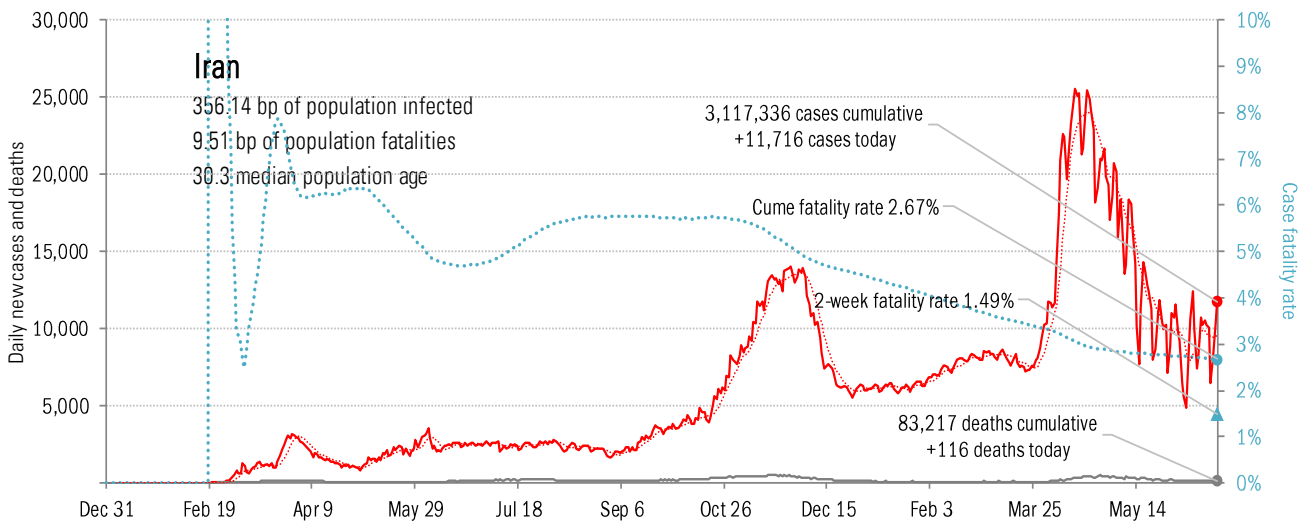
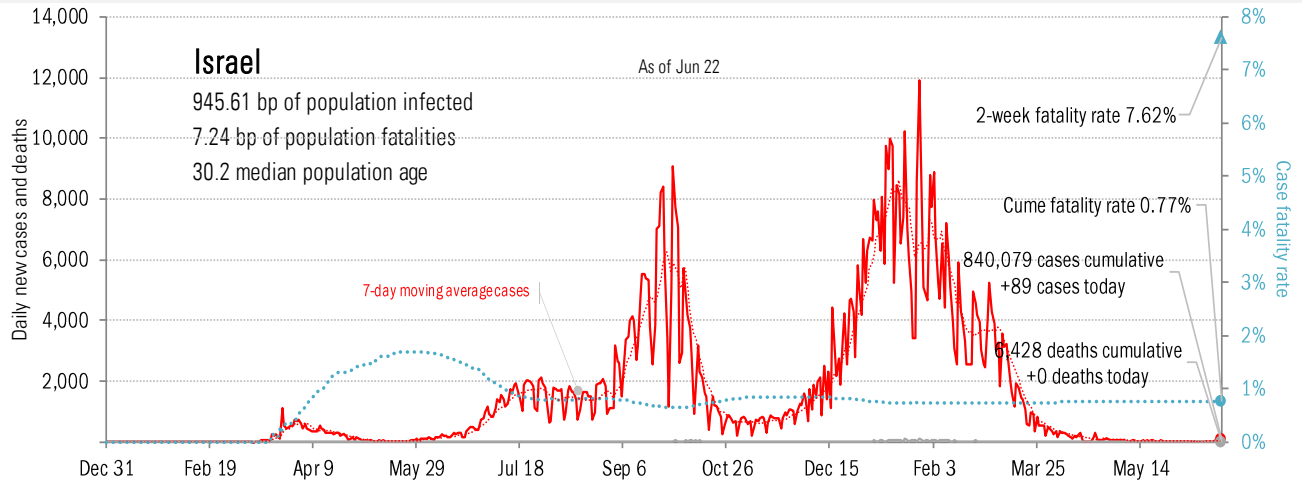
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



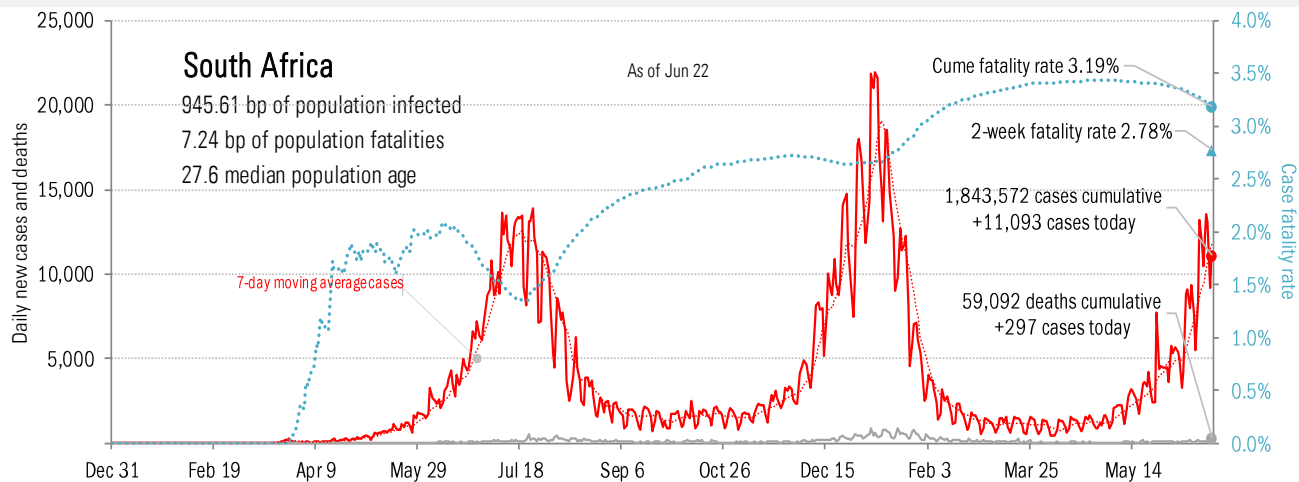
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in Africa, continued



Source: [Johns Hopkins](#), TrendMacro calculations