

Data Insights: Covid-2019 Monitor

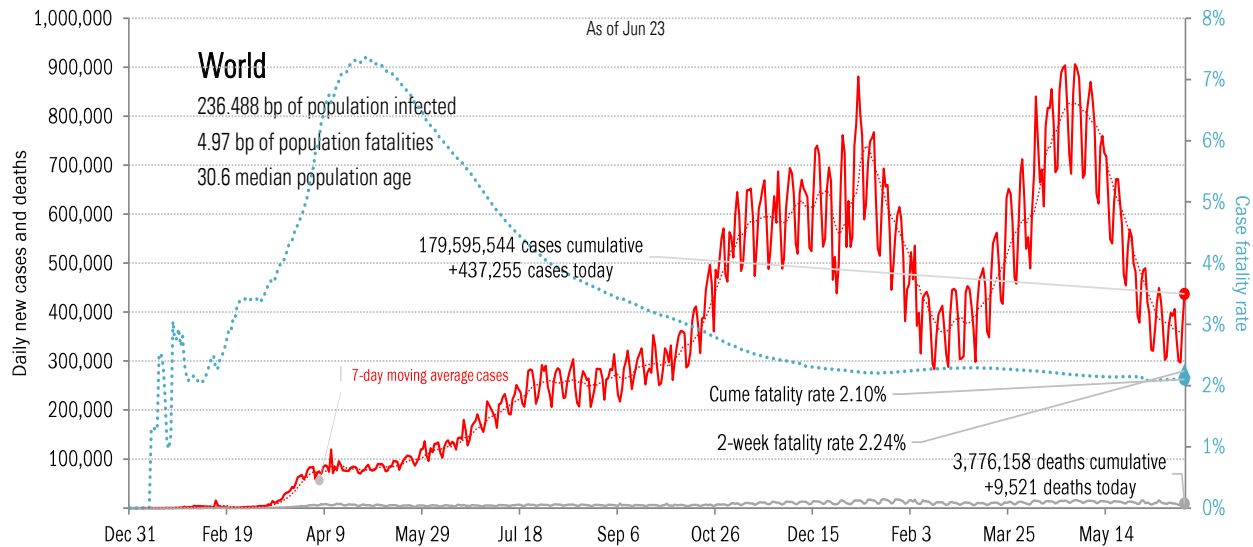
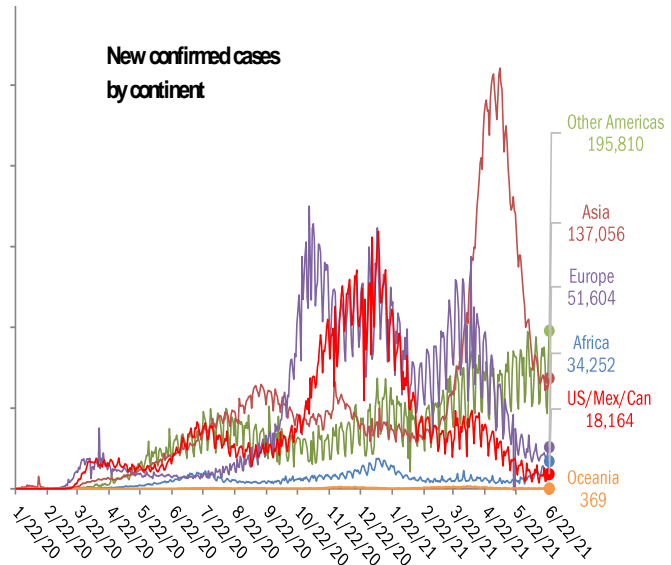
Thursday, June 24, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
Brazil	+115,228	Brazil	+2,392
India	+54,069	India	+1,321
Colombia	+29,995	Argentina	+705
Argentina	+27,319	Colombia	+645
South Africa	+17,493	Russia	+539
Russia	+17,303	United States	+375
United Kingdom	+15,943	Mexico	+342
Indonesia	+15,308	Indonesia	+303
United States	+12,436	Peru	+261
Iran	+11,059	South Africa	+166
+316,153		+7,049	
World	+437,255	World	+9,521
Top ten	72%	Top ten	74%

New confirmed cases by continent



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

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The US scorecard

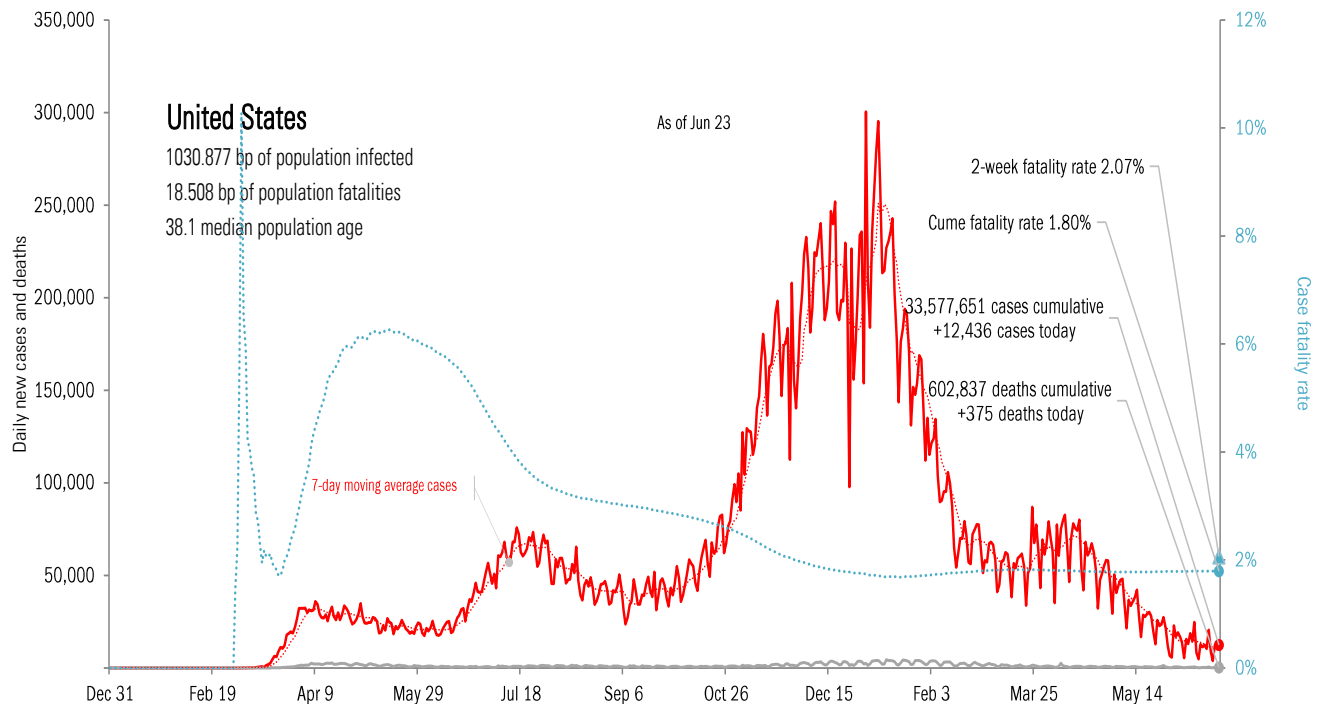
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
FL	+1,442		FL	+53		KY	+89		CA	3,811,723		CA	63,424		TX	252,386		R	92%	MO	14%
TX	+1,216		CA	+51		GA	+48		TX	2,989,604		NY	53,639		CA	239,030		MA	85%	WY	14%
CA	+915		WA	+46		AR	+15		FL	2,355,467		TX	52,183		FL	184,986		MO	82%	UT	11%
MO	+841		TX	+33		IL	+11		NY	2,112,649		FL	37,586		NY	136,011		PA	82%	CO	11%
WA	+803		CK	+30		MO	+7		IL	1,389,892		PA	27,612		GA	108,528		CA	81%	ID	10%
UT	+527		GA	+21		NV	+7		PA	1,215,374		NJ	26,410		PA	91,346		MD	81%	AR	10%
CO	+504		NJ	+18		AZ	+6		GA	1,131,972		IL	25,606		CH	87,353		CT	81%	WA	9%
AZ	+490		AL	+17		CA	+6		CH	1,109,697		GA	21,350		IL	82,191		MIN	79%	OK	8%
LA	+482		CO	+14		CT	+6		NJ	1,021,822		MI	20,914		KY	77,454		MI	78%	TX	8%
NC	+461		NC	+11		UT	+6		NC	1,011,561		CH	20,213		#N/A	0		FL	78%	NV	8%
+7,681			+294			+201			18,149,761			348,937			1,259,285						
All states	+13,878			+428			+17		All states	33,577,651			602,837			2,372,046		All states	70%		67%
Top ten	55%			69%			1182%		Top ten	54%			58%			53%		Median	73%		5%

Some states not reporting

Five most improved US states

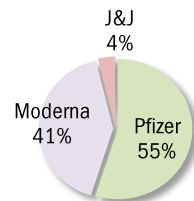
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-758	CH	-47	TX	-88	MP	+40 bp
CA	-183	PA	-28	FL	-22	FR	+30 bp
WV	-183	MI	-12	IN	-16	SC	+30 bp
AR	-96	MS	-12	AL	-14	CO	+20 bp
MT	-54	MO	-11	TN	-14	MD	+20 bp



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	Immunity	Full	Partial
Doses distributed	392,472,915				+0.564 million	US	45.1%	53.2%
Doses administered	329,321,907				+0.658 million	UK	46.8%	64.0%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	25.5%	47.7%
Total population	182,548,513	55%	154,876,177	46%	+0.368 million	Spain	32.4%	50.8%
Age 12 to 17	8,336,571	33%	5,867,668	23%	+0.069 million	Germany	33.2%	51.9%
Age 18 to 64	124,646,253	61%	105,130,077	52%	+0.254 million	Italy	27.5%	53.4%
Age 65 and over	49,405,154	90%	43,777,198	80%	+0.043 million	Australia	4.3%	22.6%



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 **228 days** by Feb 6, 2022

71.2% of population >18 immunized
14.1% previously tested positive
85.3% vs 60% adult herd immunity*

Global data differs from sources, timing

AK
60.7%
48.0%
41.9%

ME	NH
72.3%	71.0%
65.9%	61.7%
60.3%	54.9%

WA	ID	MT	ND	MN	IL	MI	NY	MA		
64.5%	49.2%	54.8%	49.0%	60.6%	60.8%	61.0%	64.2%	73.3%		
60.3%	39.2%	47.2%	43.5%	56.4%	58.5%	51.0%	59.2%	69.7%		
53.1%	35.4%	41.7%	38.3%	50.4%	44.6%	46.2%	52.5%	60.2%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
70.2%	52.2%	47.3%	57.3%	57.4%	52.4%	55.5%	64.7%	67.8%	69.2%	73.8%
57.9%	48.4%	38.8%	50.1%	51.0%	44.0%	47.8%	62.1%	64.3%	66.2%	63.9%
51.8%	40.8%	33.8%	44.8%	47.2%	39.2%	43.8%	48.7%	55.1%	59.2%	57.5%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
65.0%	52.7%	63.5%	56.4%	52.0%	52.4%	55.5%	63.2%	72.9%	68.5%	
60.3%	47.9%	57.2%	50.5%	44.2%	48.9%	42.9%	58.4%	60.7%	57.4%	
48.5%	36.5%	50.5%	45.8%	38.2%	42.4%	36.6%	50.6%	54.2%	48.2%	
AZ	NM	KS	AR	TN	NC	SC	DC			
58.1%	59.4%	55.5%	49.7%	48.6%	58.4%	54.1%	78.7%			
48.9%	60.9%	48.6%	41.3%	41.1%	44.8%	43.5%	60.4%			
39.3%	52.6%	41.1%	33.5%	34.6%	38.8%	37.4%	50.9%			
OK	LA	MS	AL	GA						
53.3%	45.8%	47.2%	51.5%	55.0%						
44.2%	37.6%	35.7%	39.2%	42.5%						
37.4%	33.9%	29.2%	32.0%	35.4%						
HI	TX	FL	PR							
71.2%	57.7%	61.3%	68.0%							
69.2%	47.5%	52.7%	56.0%							
51.1%	40.0%	44.3%	43.5%							

As of Jun 23

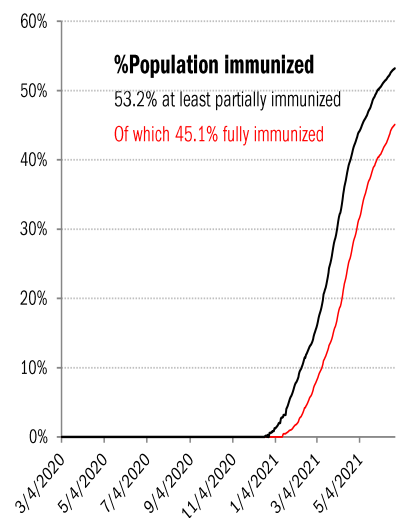
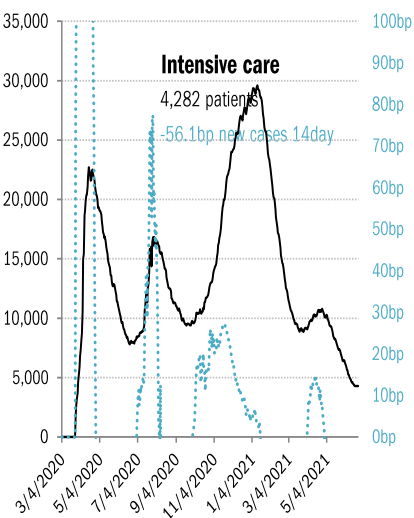
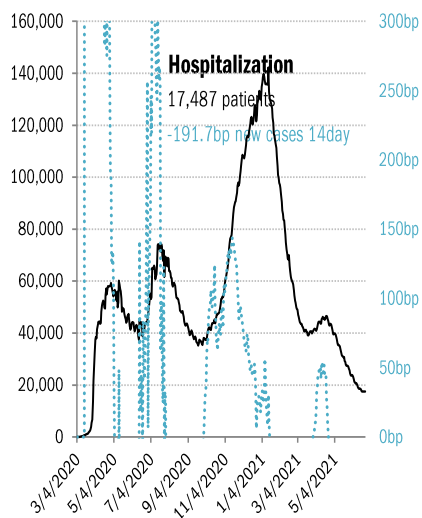
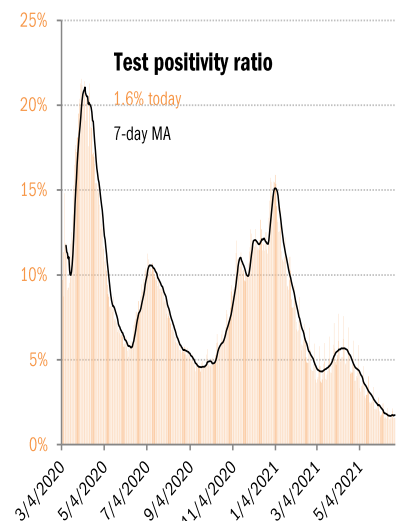
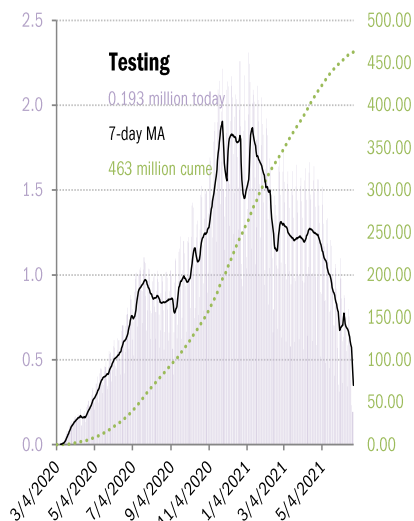
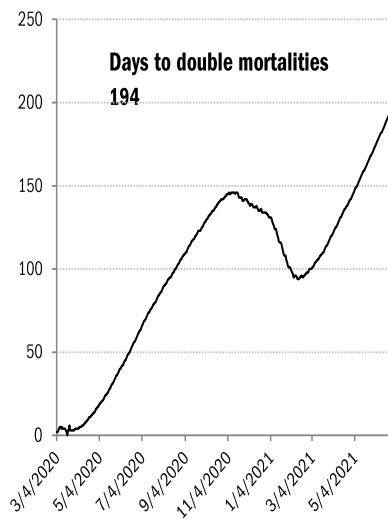
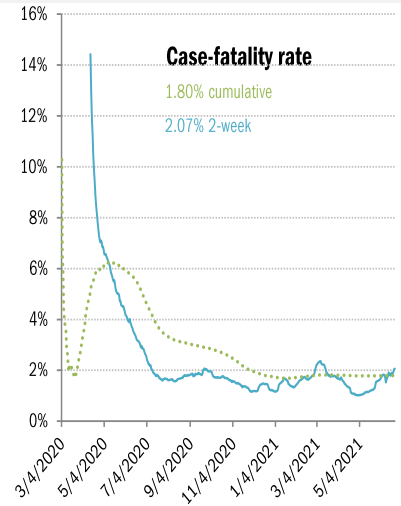
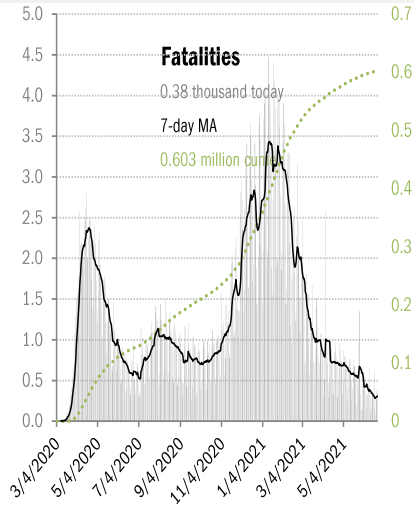
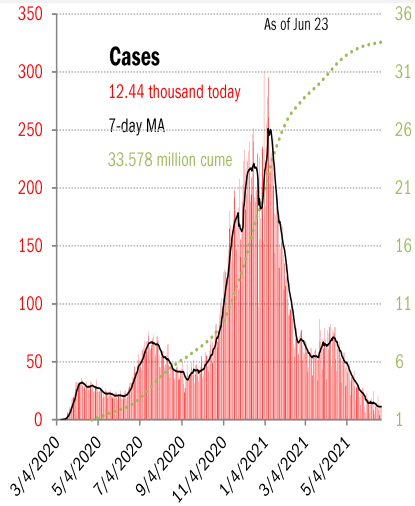
* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.

** 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

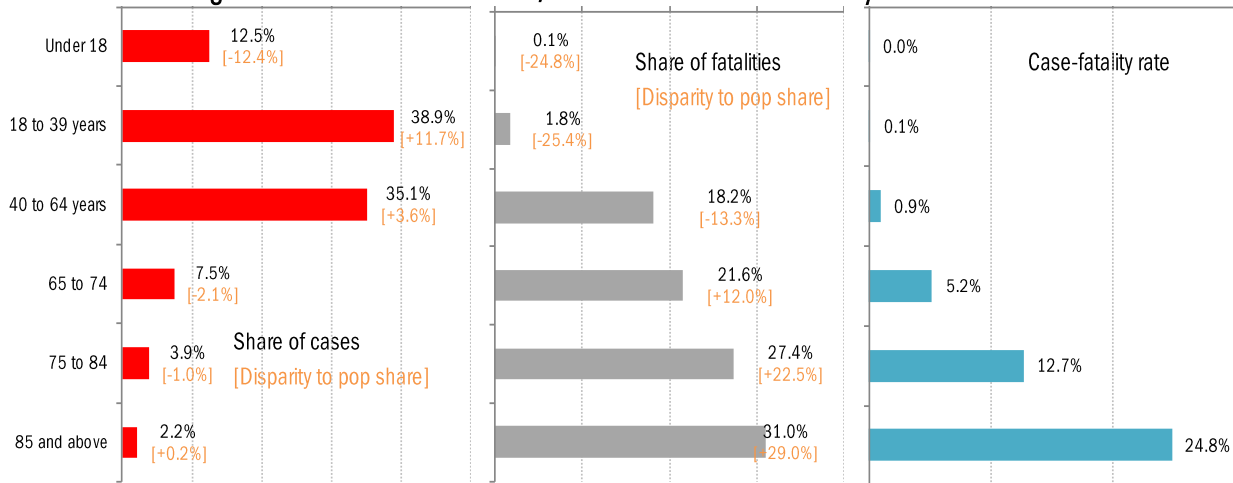
US deep-dive

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

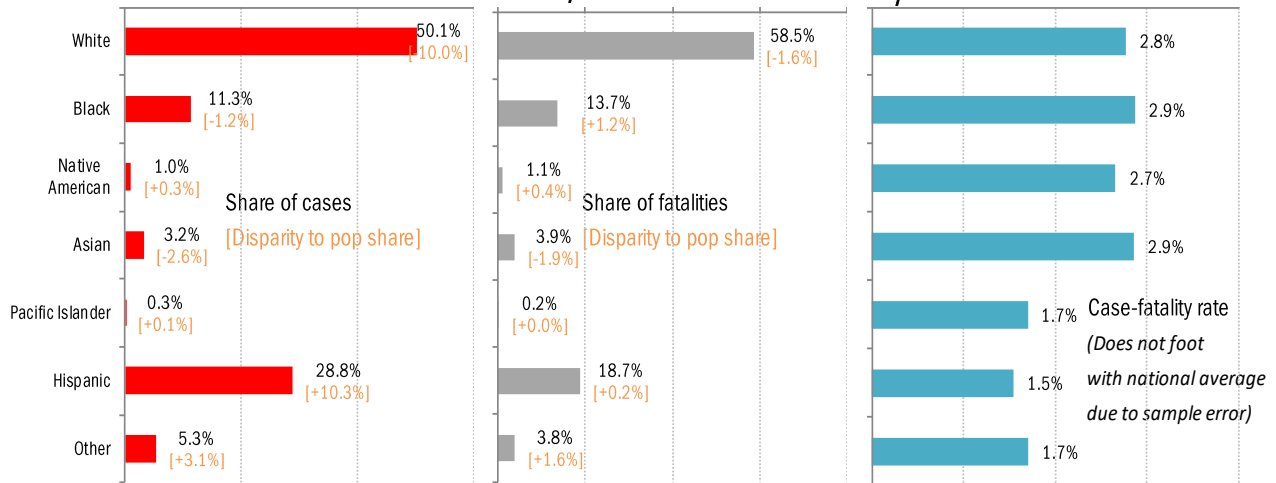


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

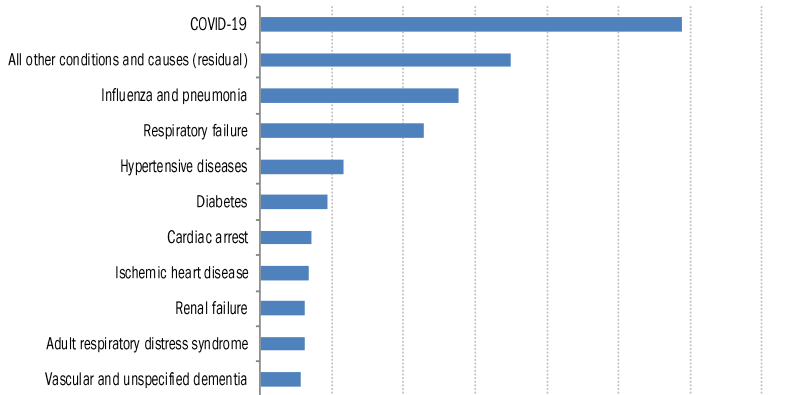


Racial distribution of US cases, fatalities and case-fatality rates



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

[Chinese Covid-19 Gene Data That Could Have Aided Pandemic Research Removed From NIH Database](#)

Amy Dockser Marcus, Betsy McKay and Drew Hinshaw
Wall Street Journal
June 23, 2021

[Nanopore Targeted Sequencing for the Accurate and Comprehensive Detection of SARS-CoV-2 and Other Respiratory Viruses](#)

Ming Wang et al.
Nano Micro Small
June 24, 2020

[Recovery of deleted deep sequencing data sheds more light on the early Wuhan SARS-CoV-2 epidemic](#)

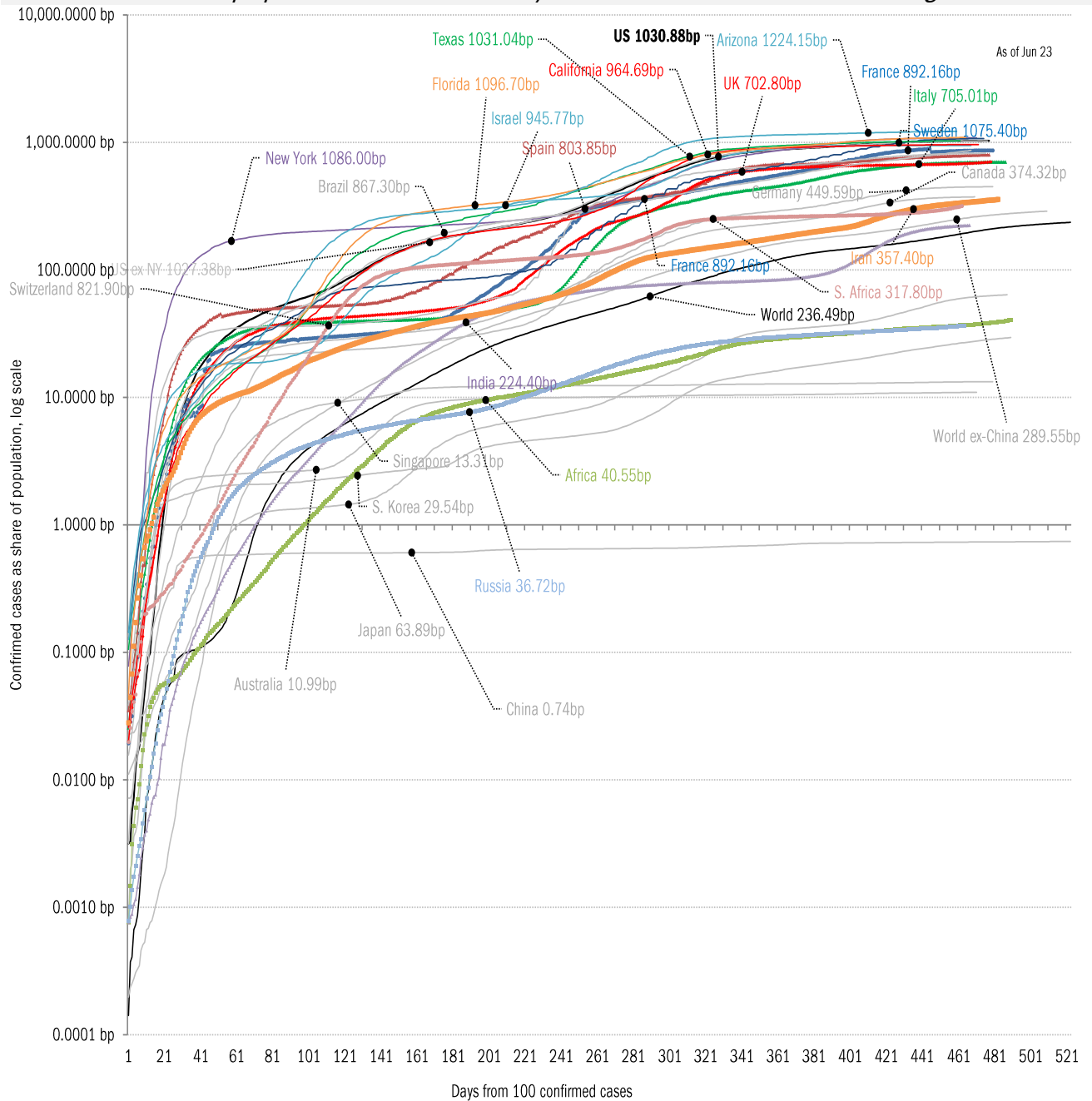
Jesse D Bloom
medRxiv
June 22, 2021

Meme of the day



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

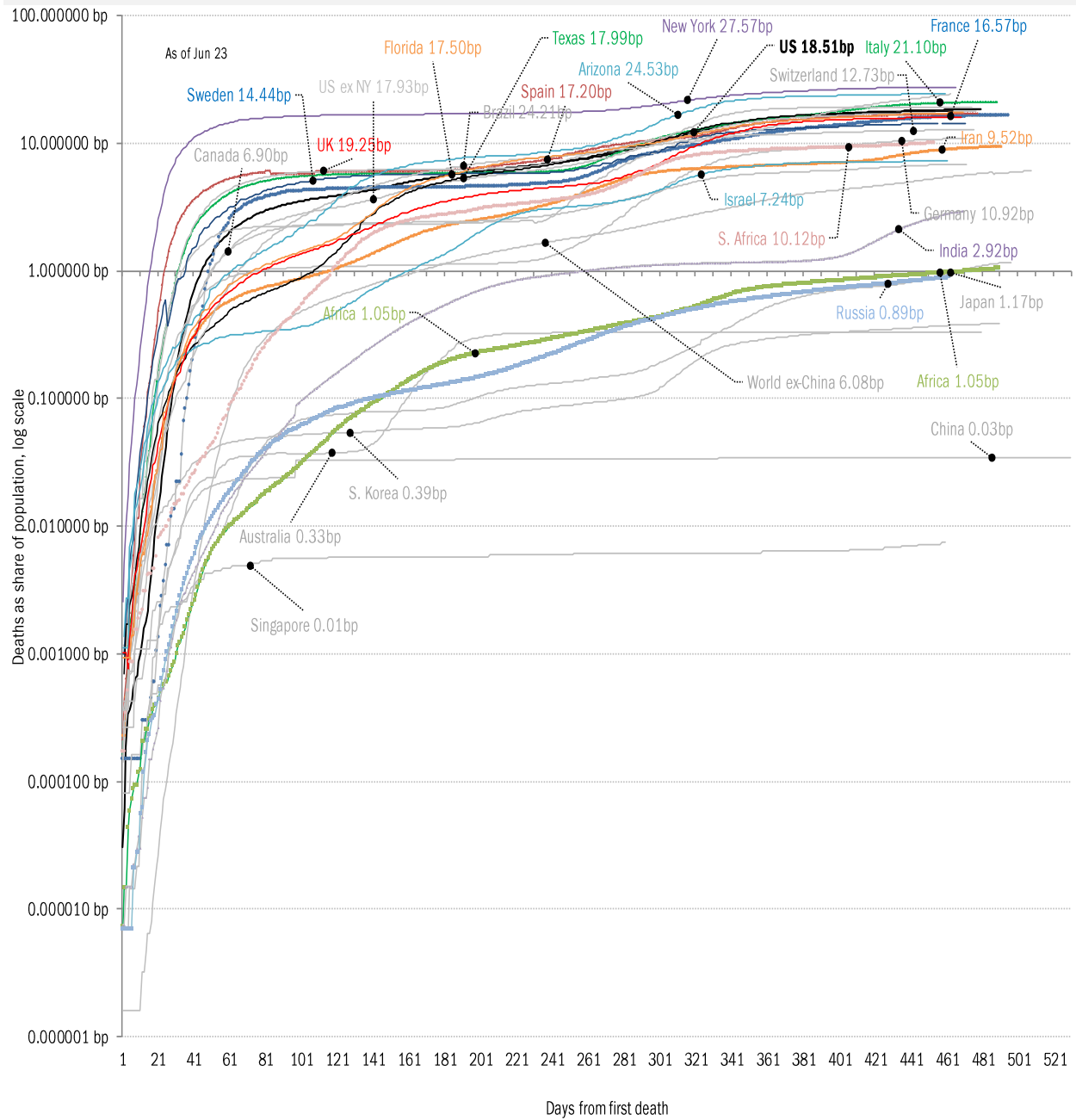
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

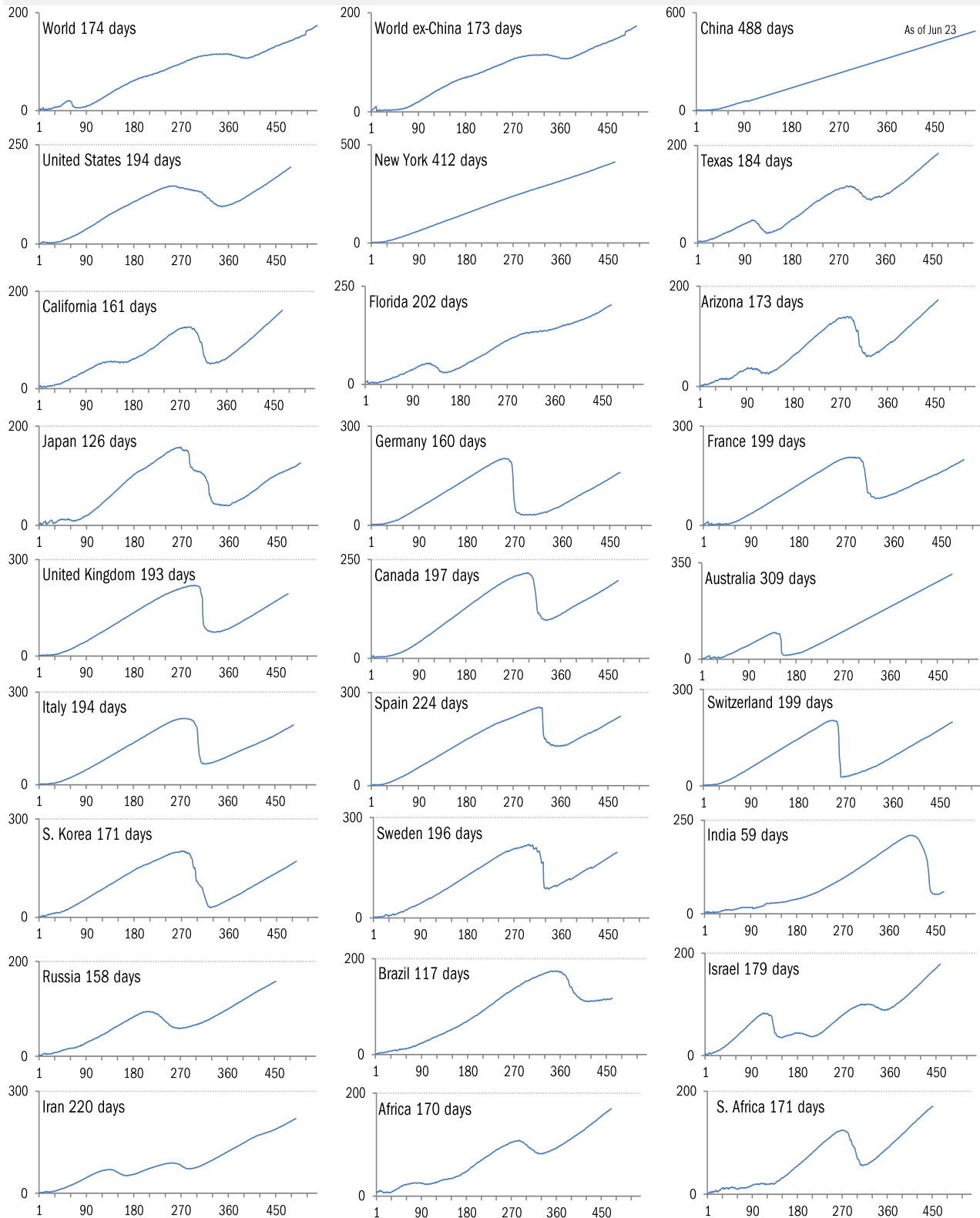


Source: [Johns Hopkins](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

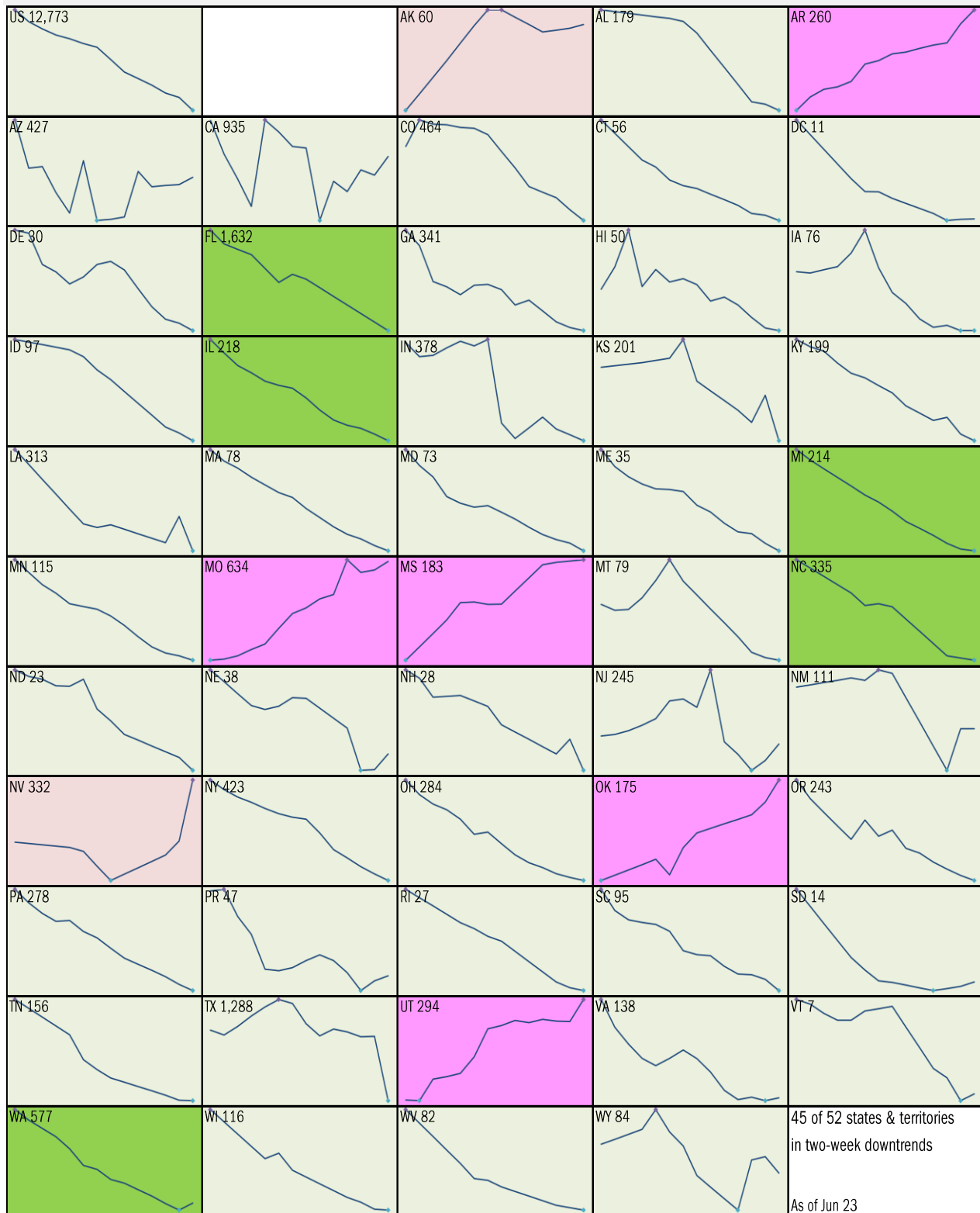
Vertical: days to double deaths Horizontal: days from first death

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

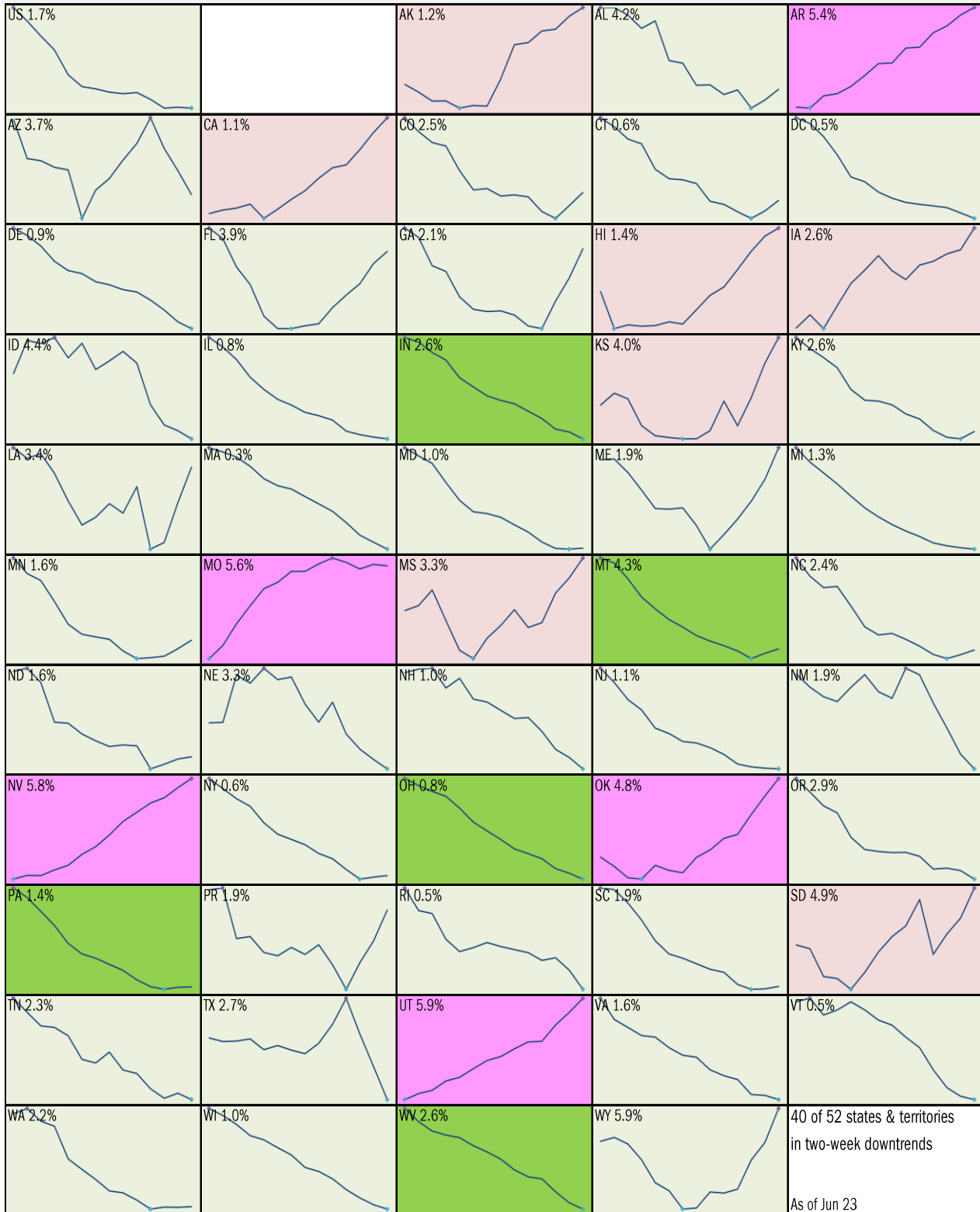


Source: [Johns Hopkins](#), TrendMacro calculations

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

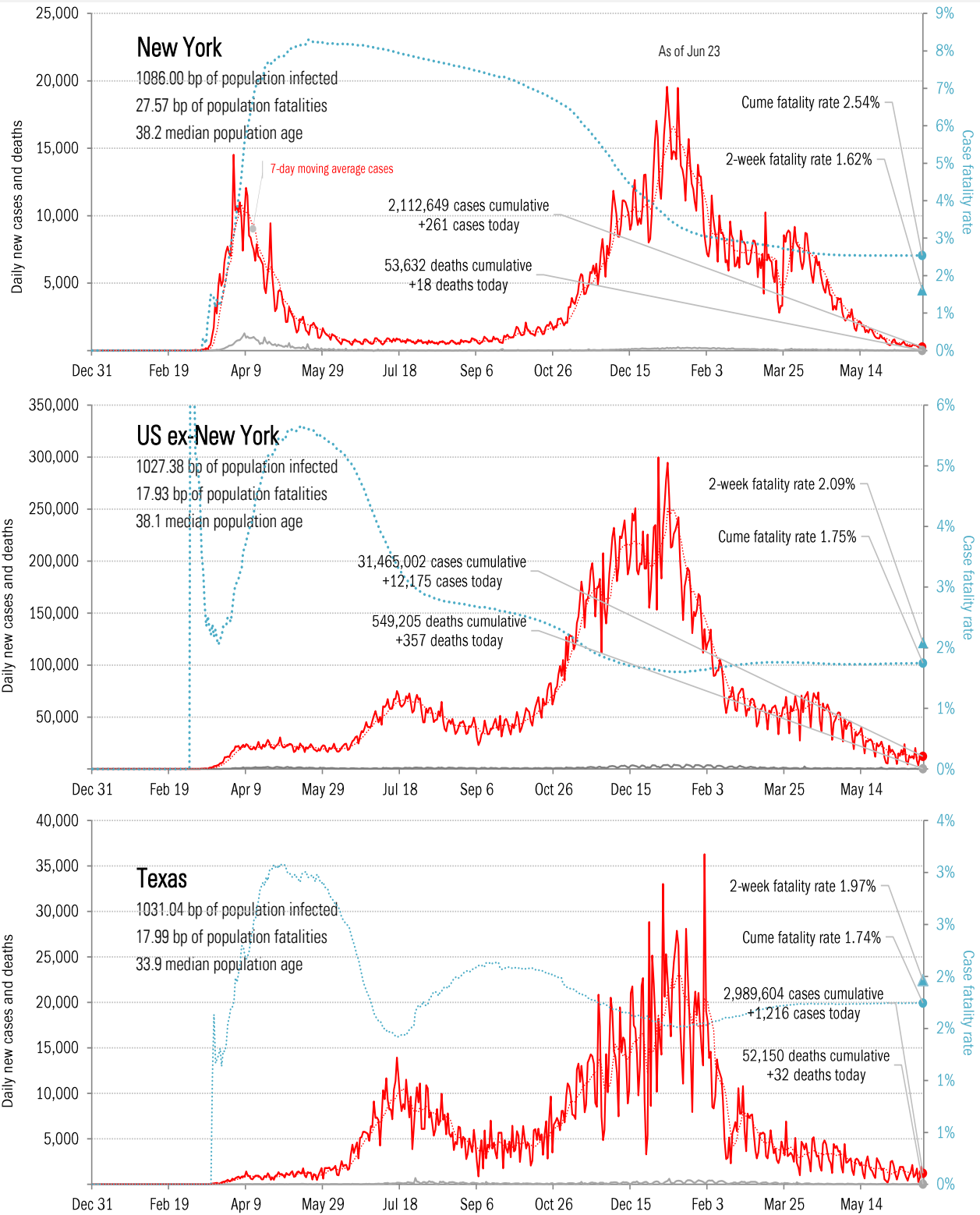
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



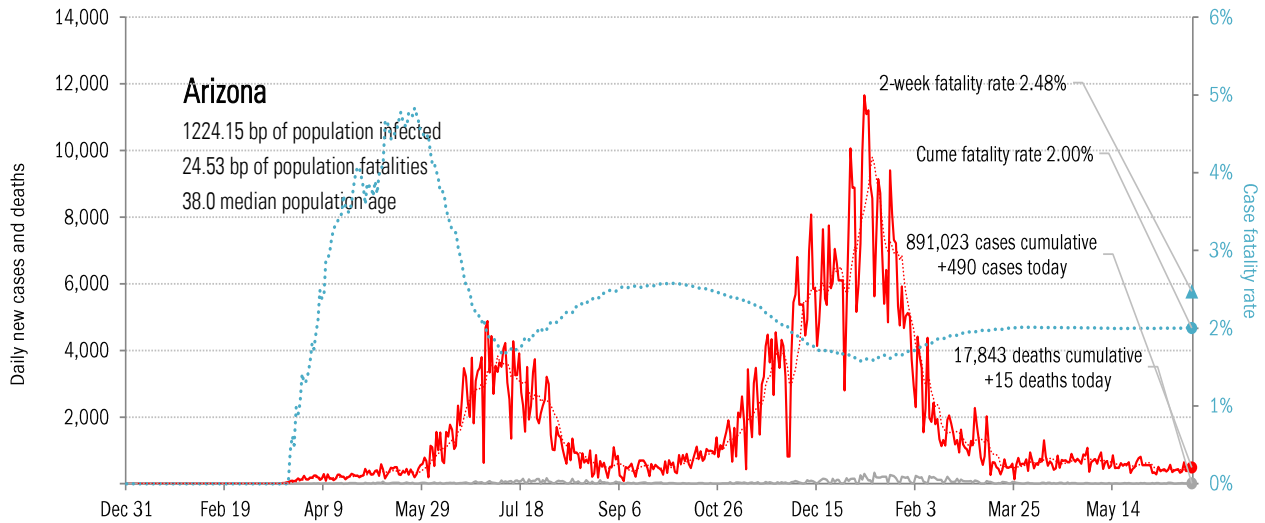
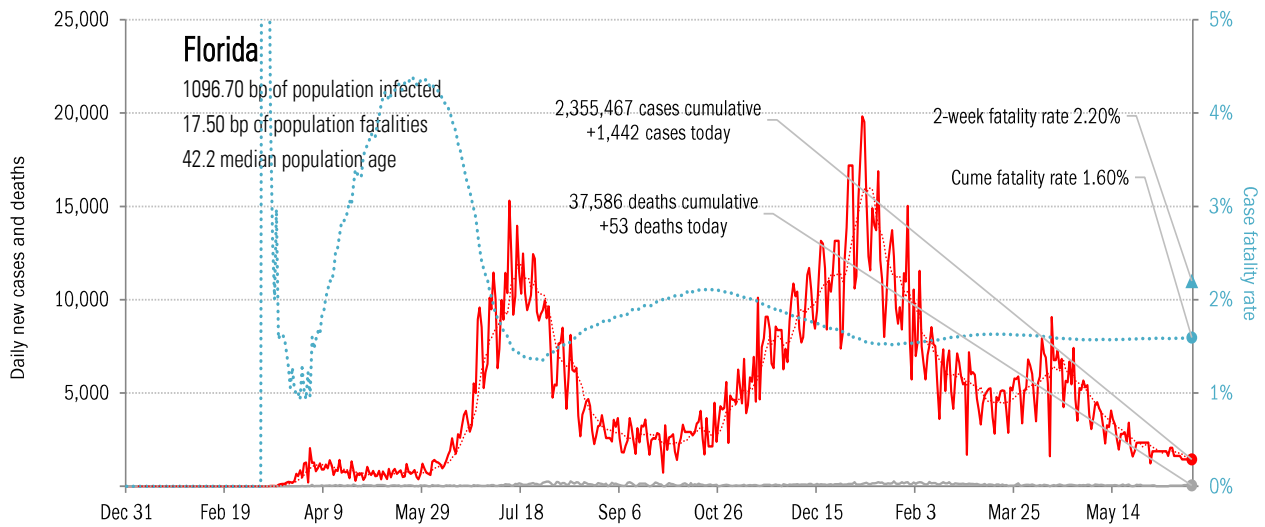
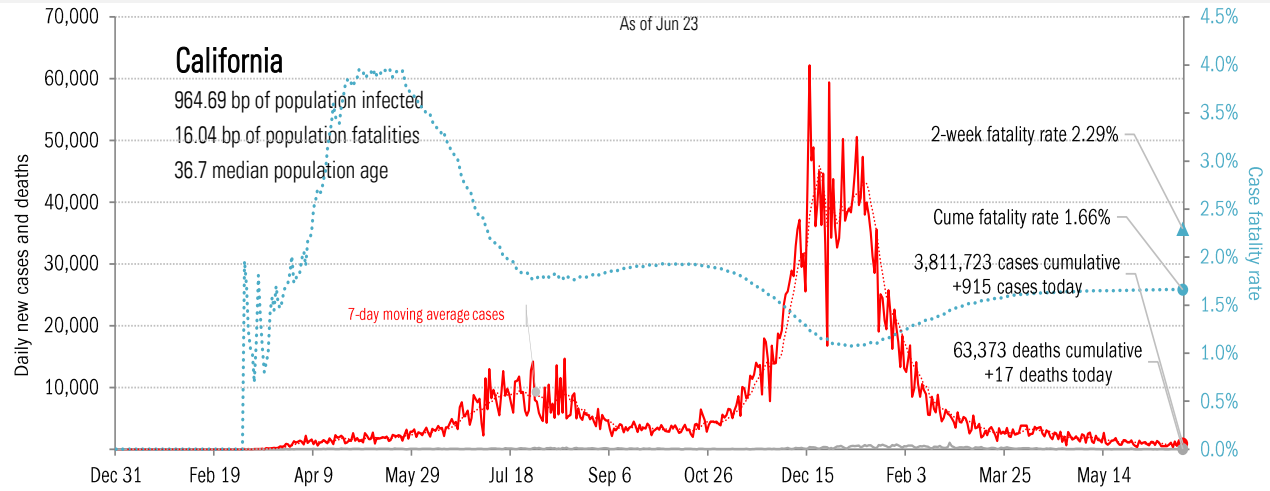
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



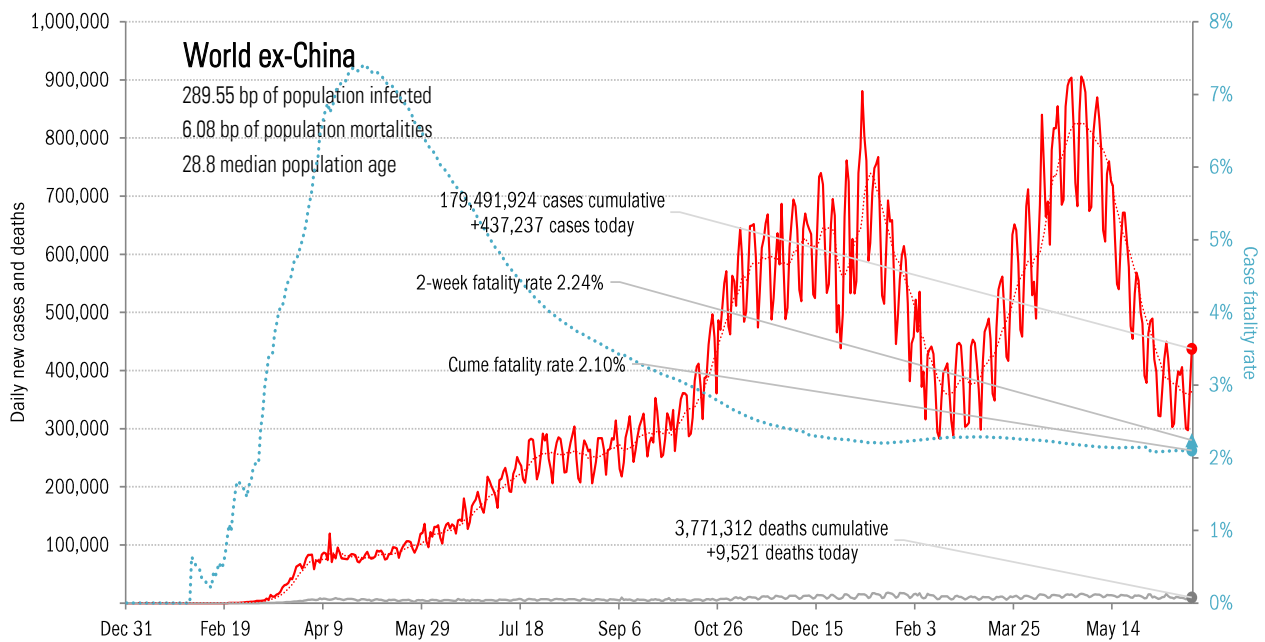
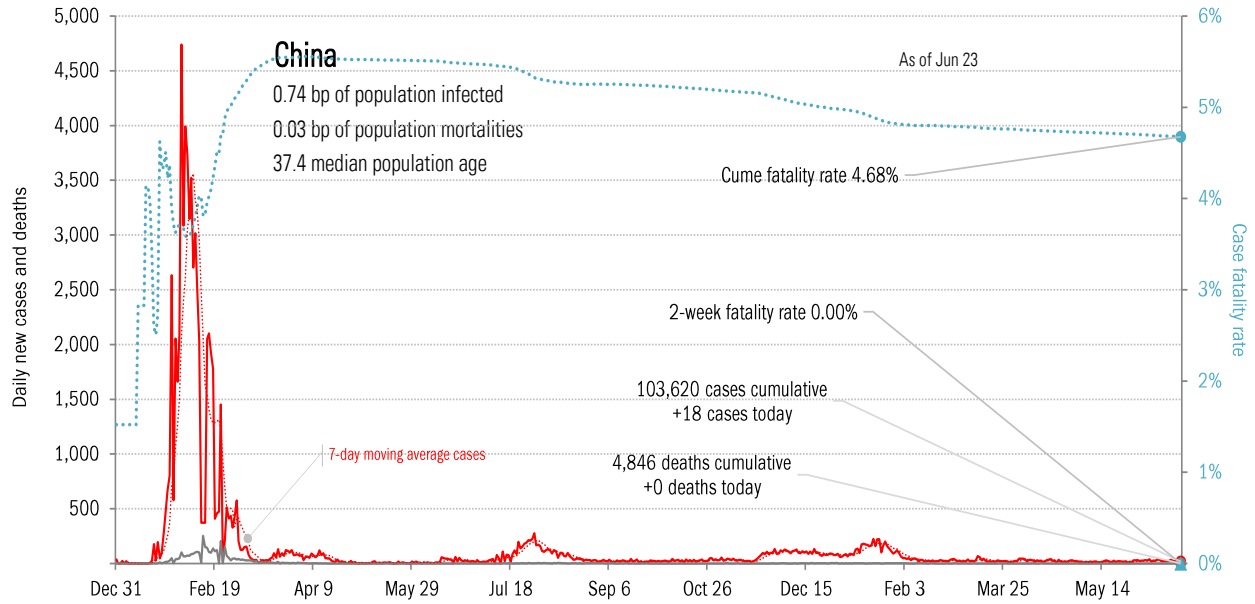
Source: [Johns Hopkins](#), TrendMacro calculations

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



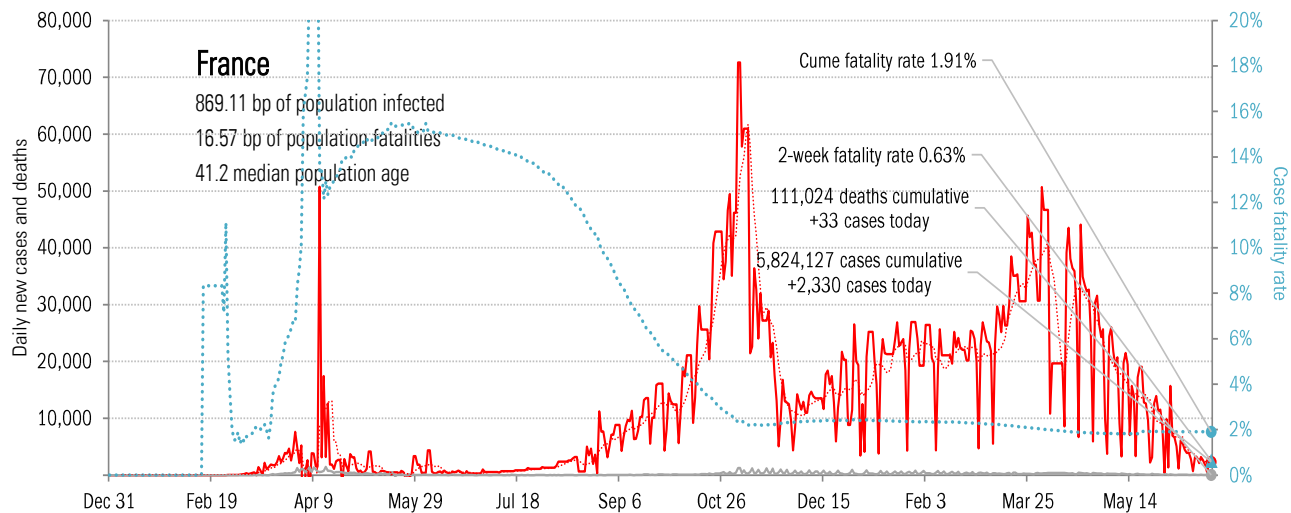
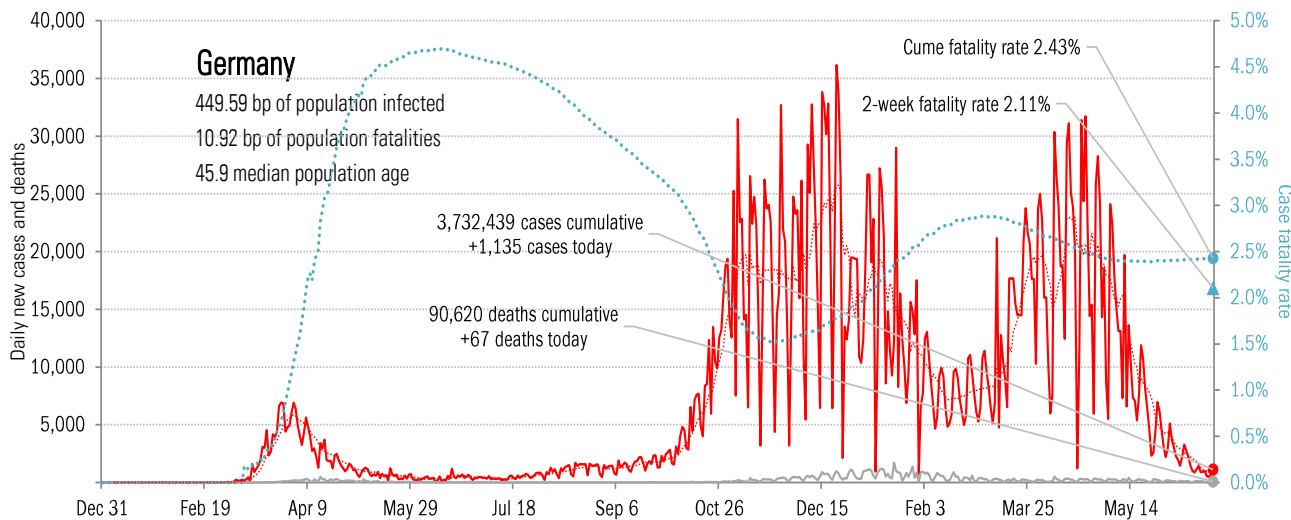
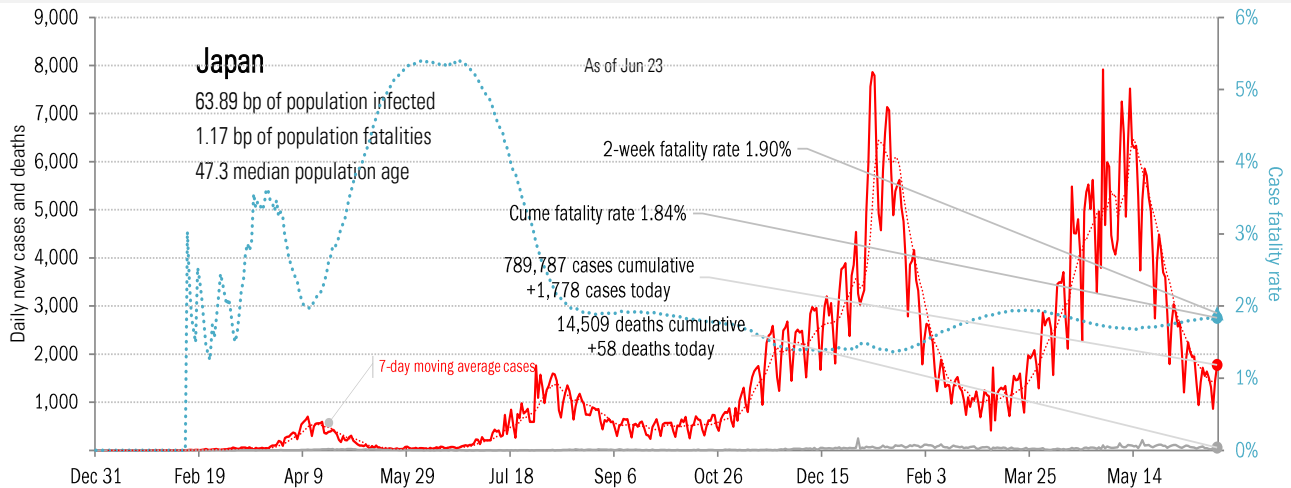
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



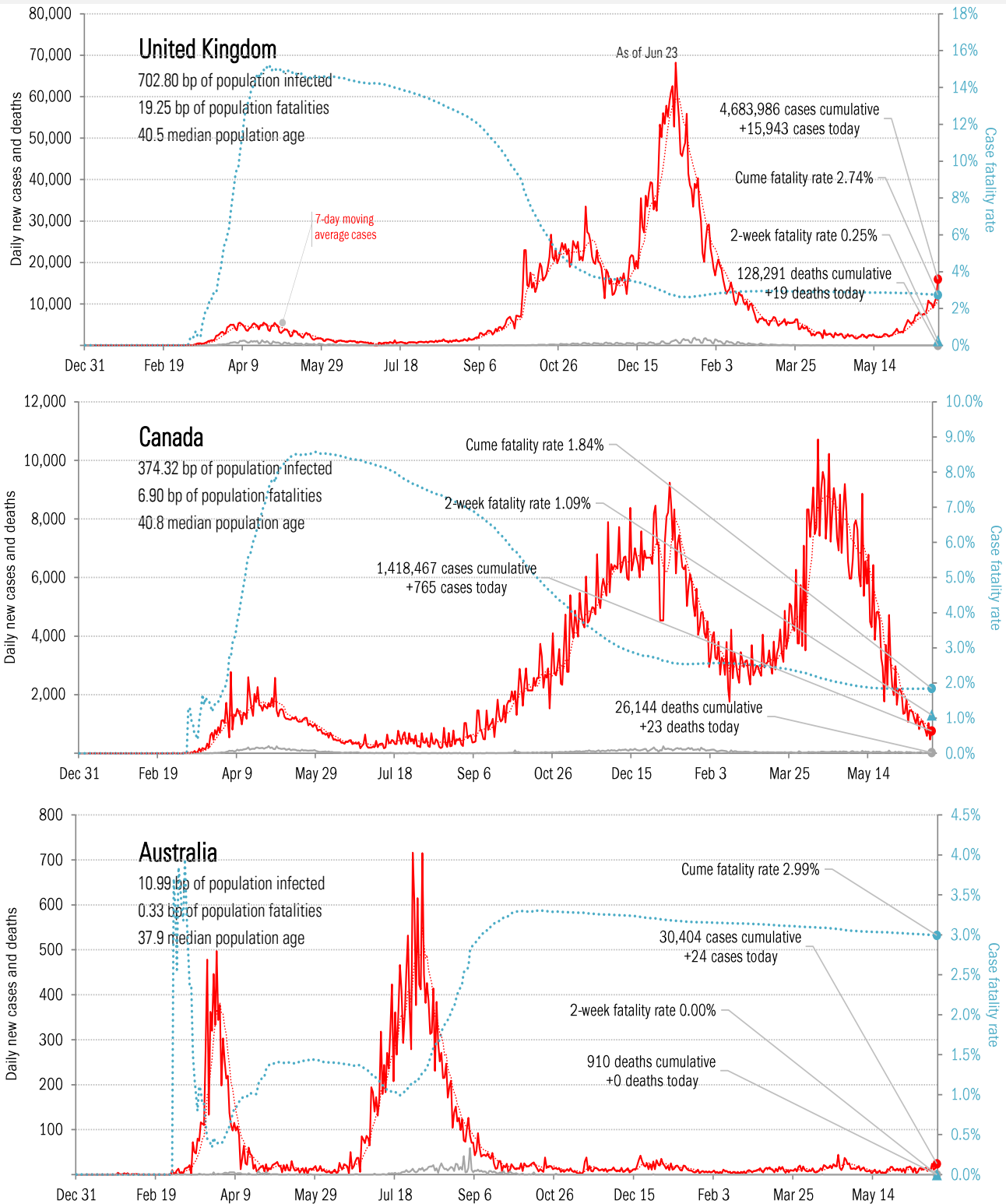
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



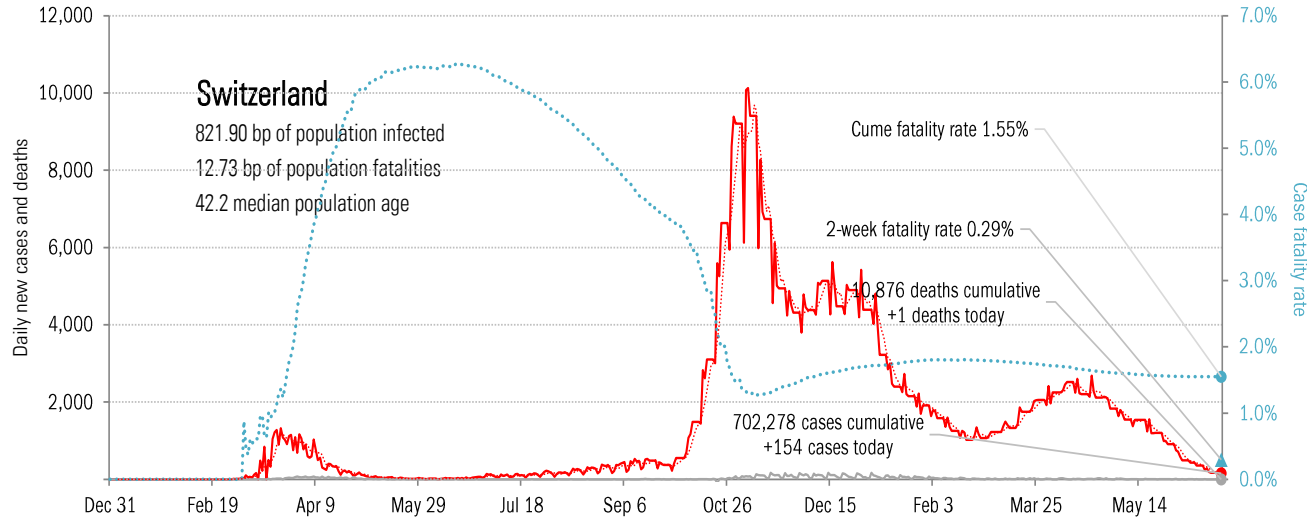
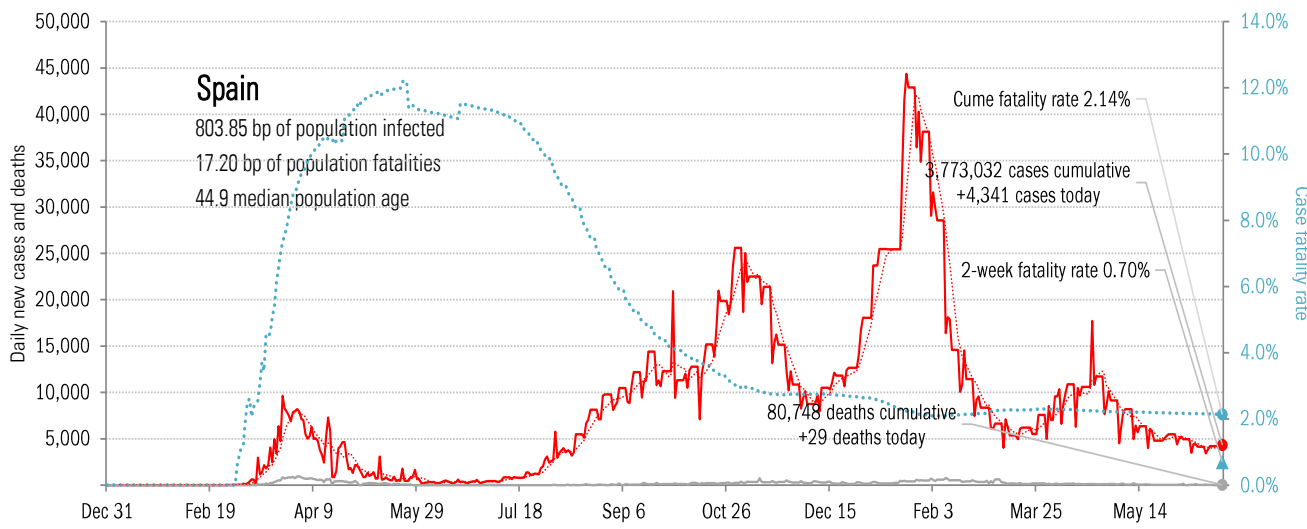
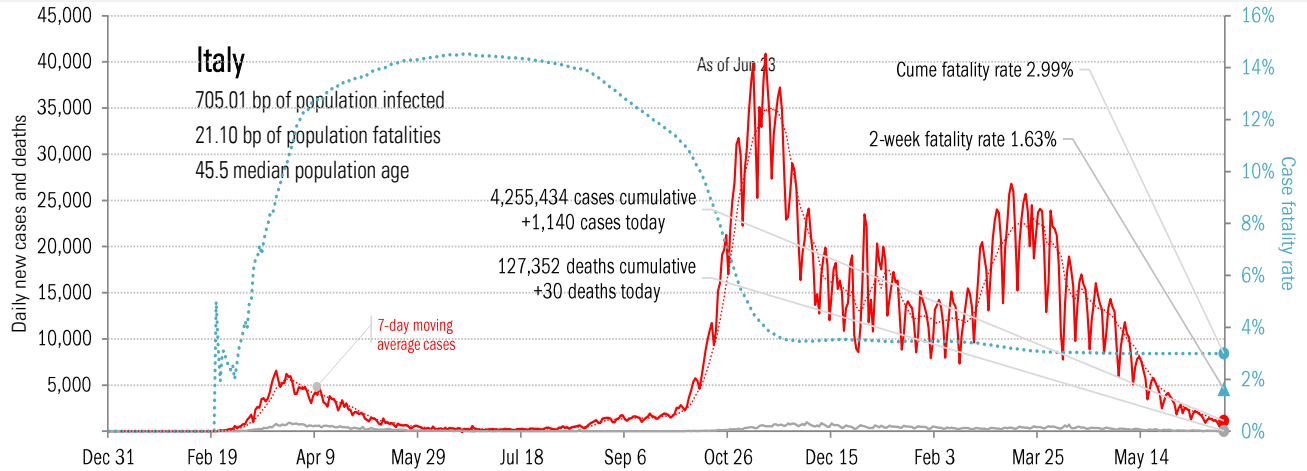
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



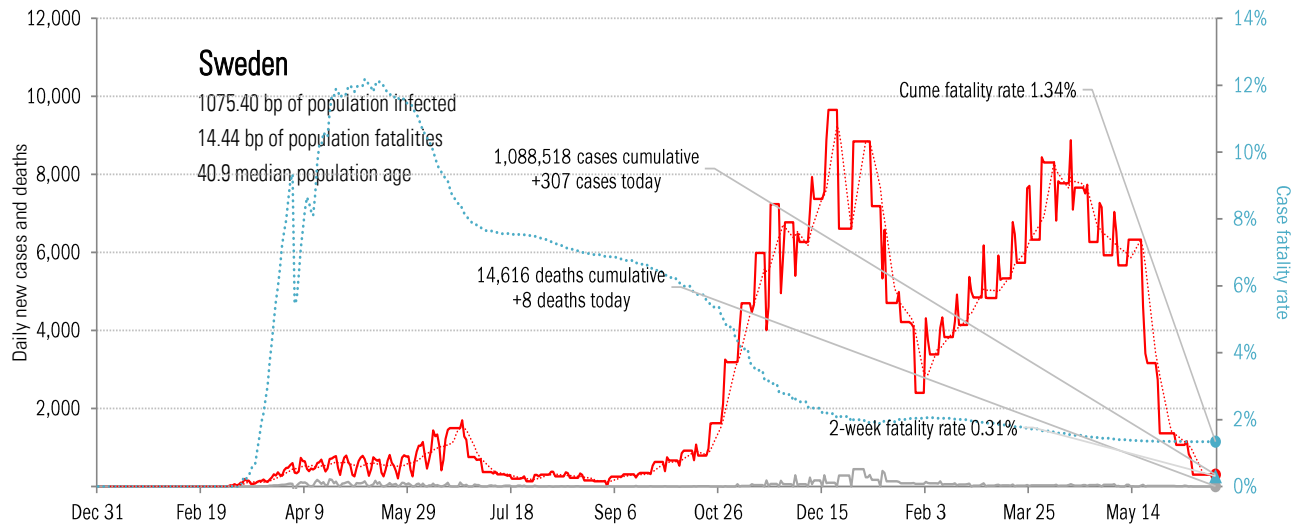
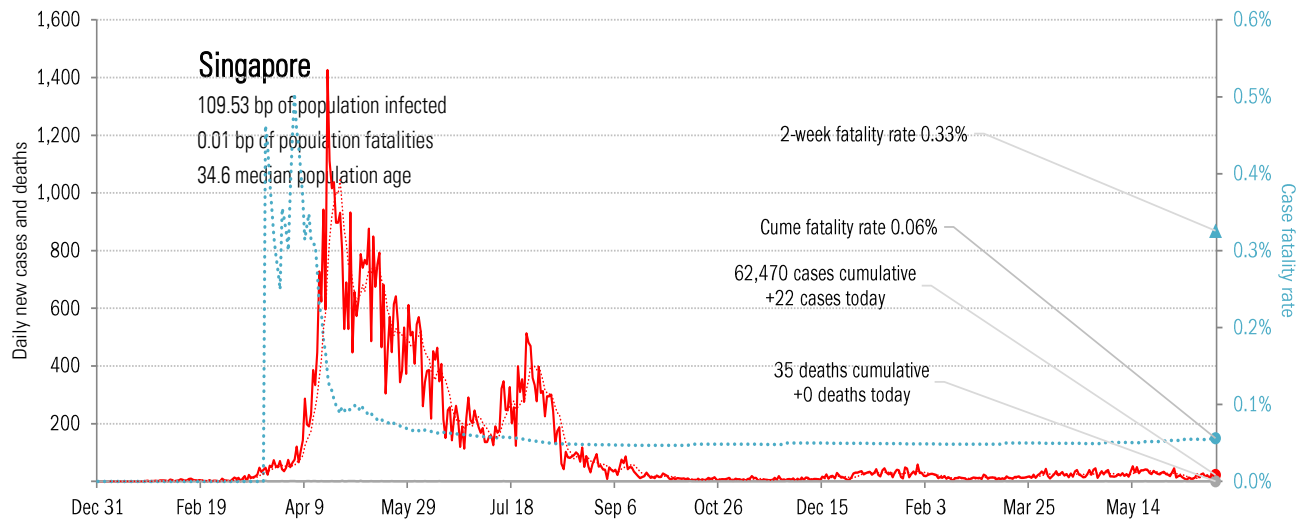
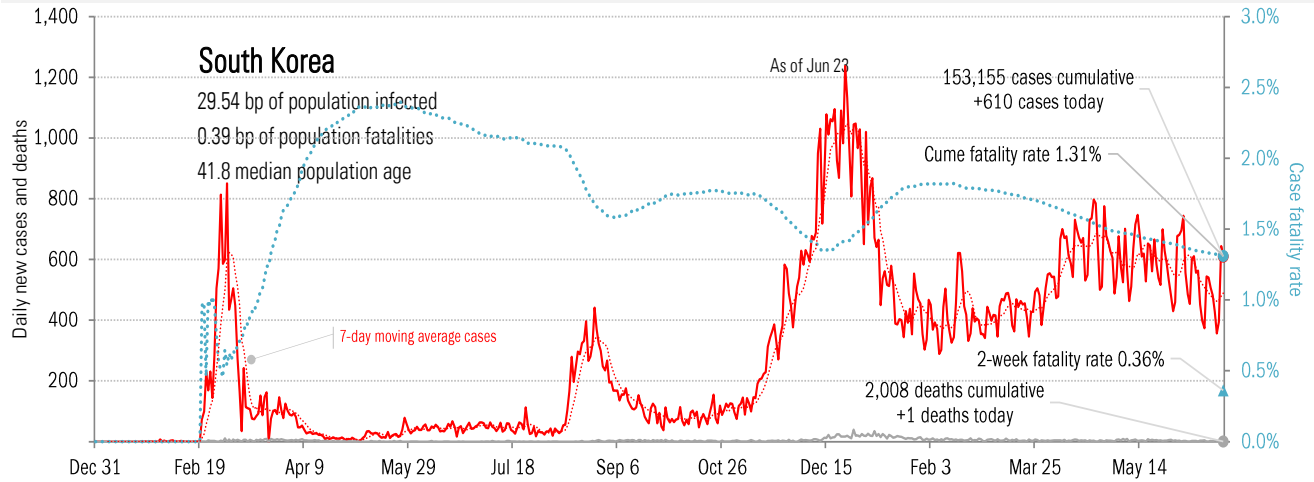
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



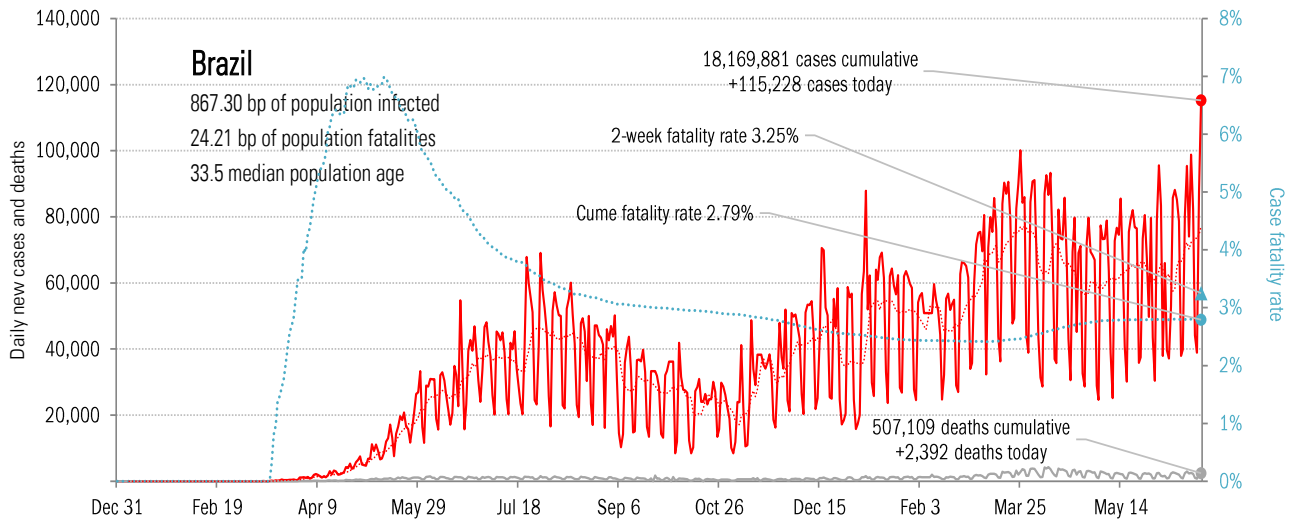
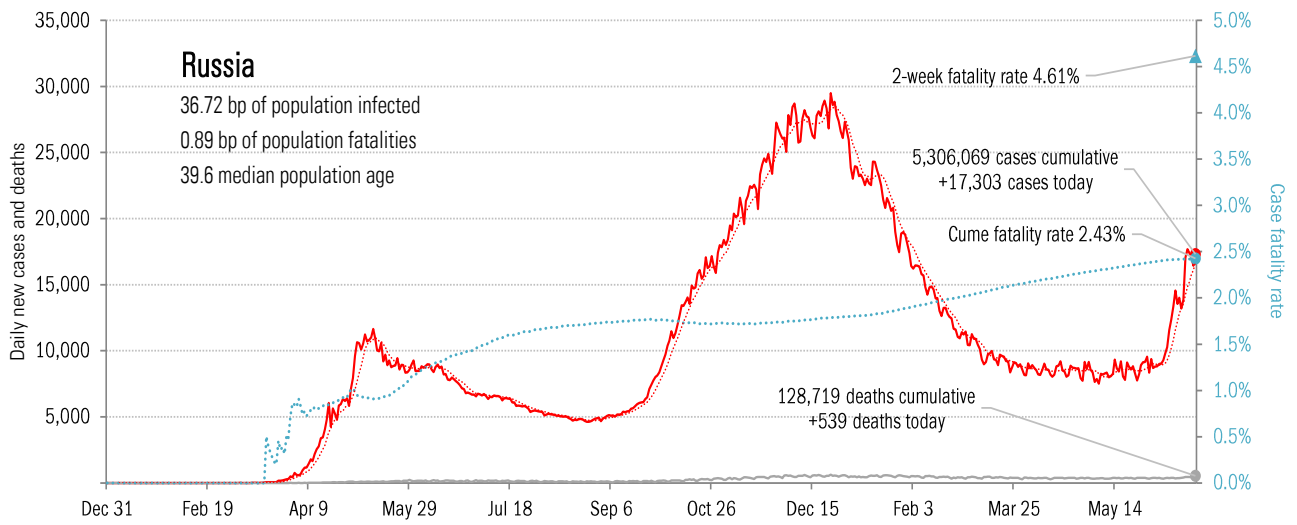
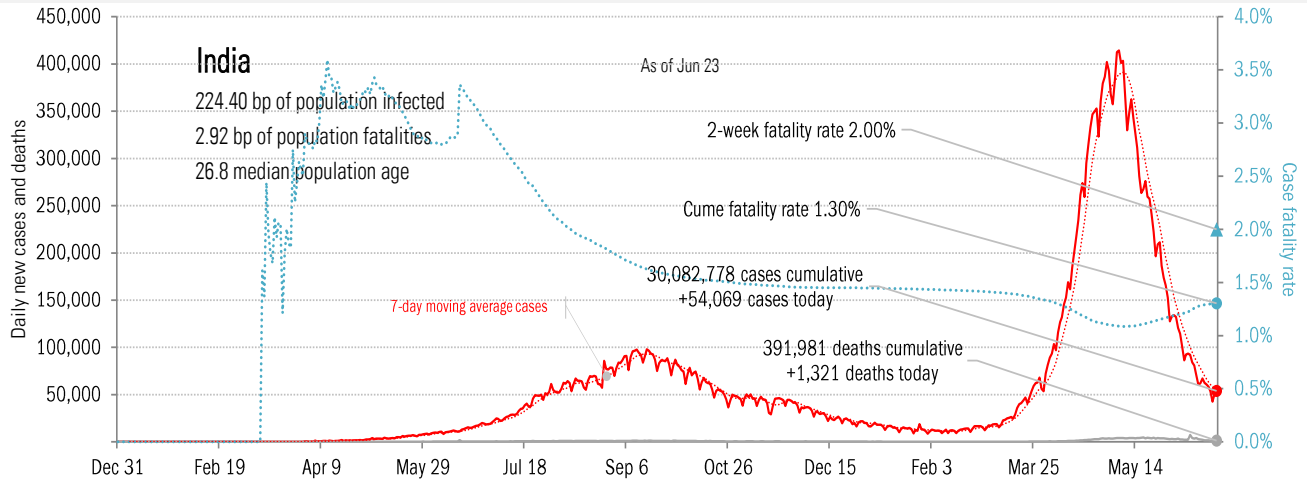
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



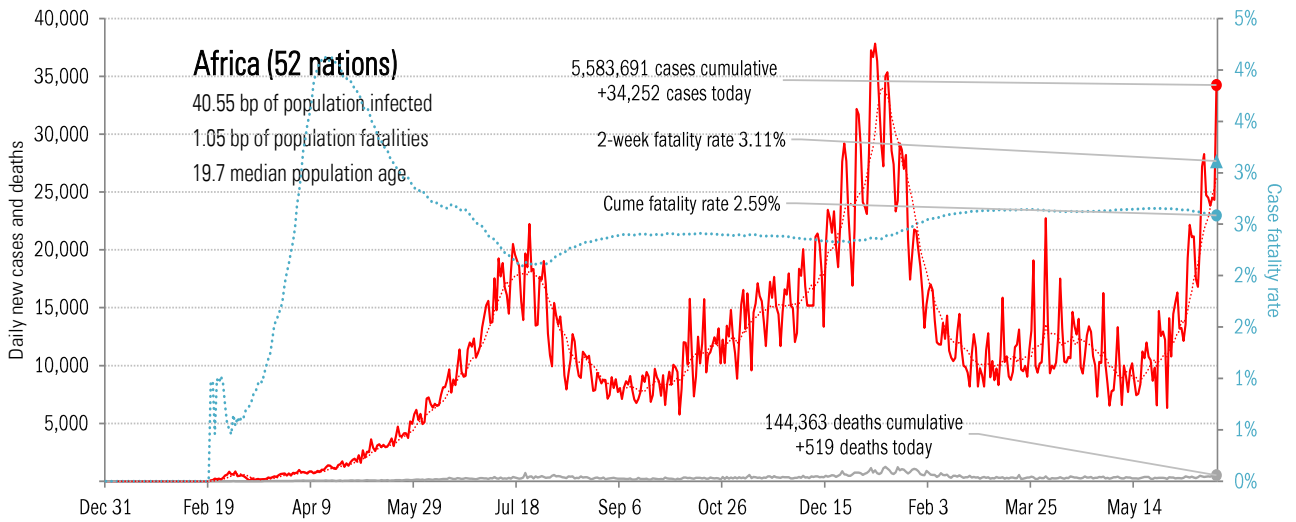
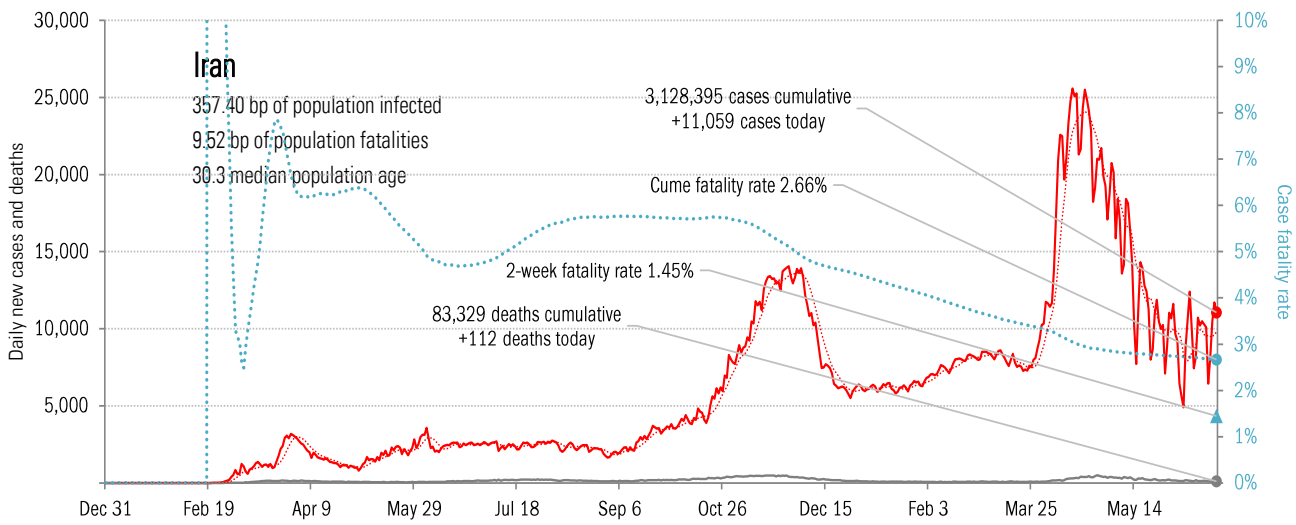
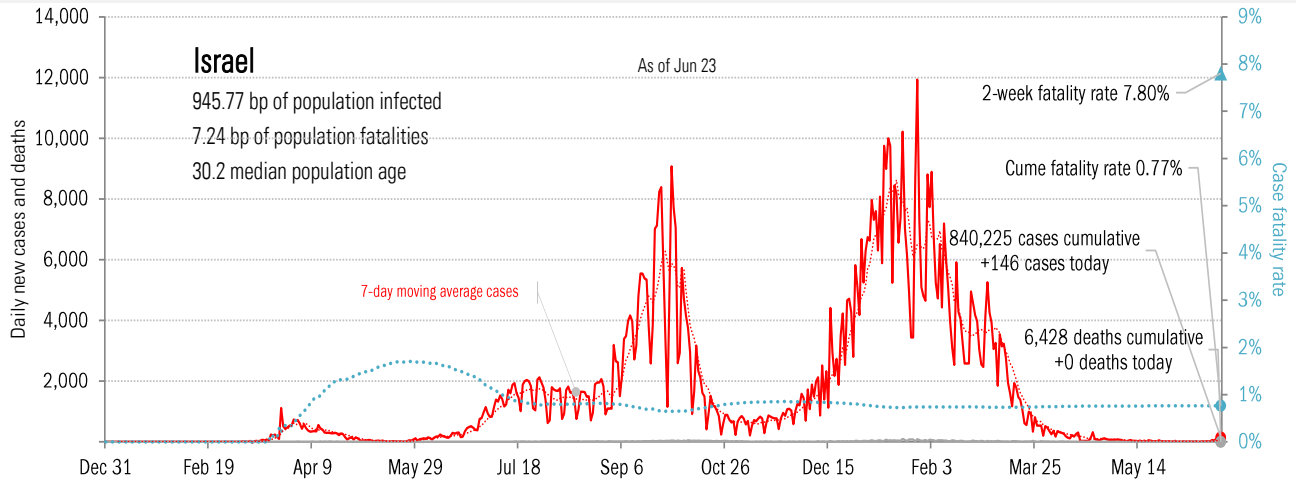
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



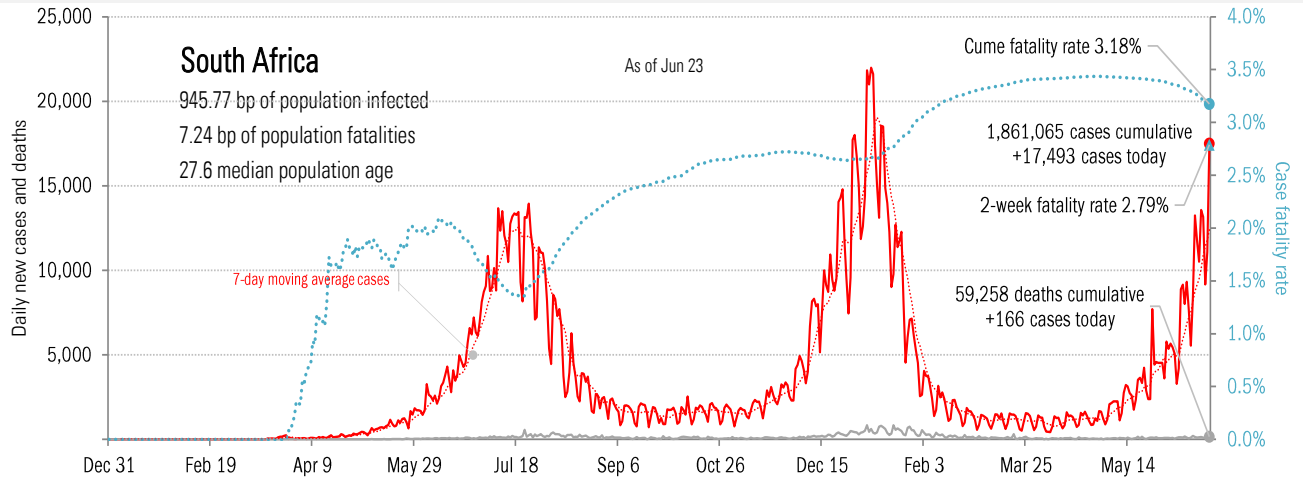
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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