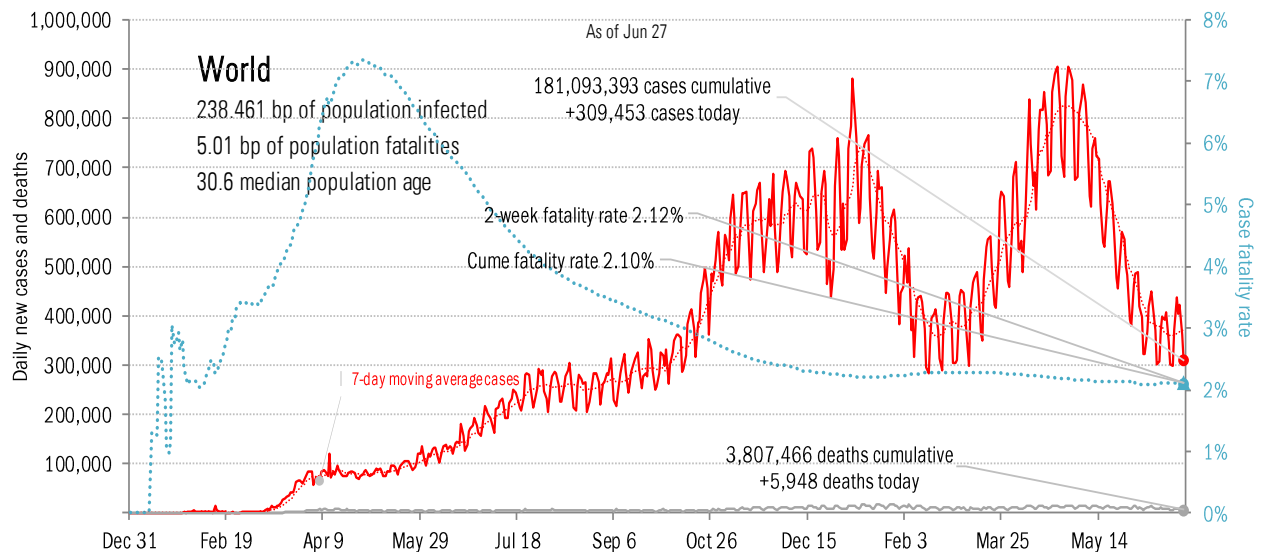
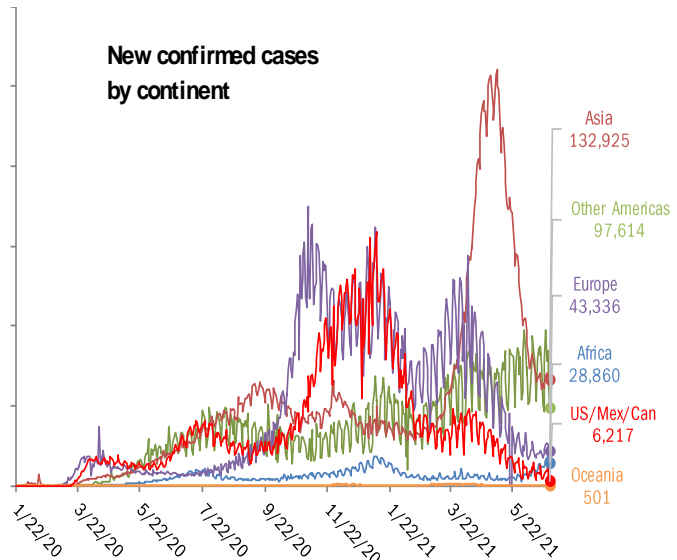


Data Insights: Covid-2019 Monitor

Monday, June 28, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+46,148	India	+979
Brazil	+33,704	Brazil	+739
Colombia	+32,376	Colombia	+664
Indonesia	+21,342	Russia	+591
Russia	+20,169	Indonesia	+409
South Africa	+15,036	Argentina	+251
United Kingdom	+14,633	Paraguay	+152
Argentina	+12,105	Peru	+137
Iran	+9,758	Chile	+135
Philippines	+6,081	Iran	+134
+211,352		+4,191	
World	+309,453	World	+5,948
Top ten	68%	Top ten	70%



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

For more information contact us:

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

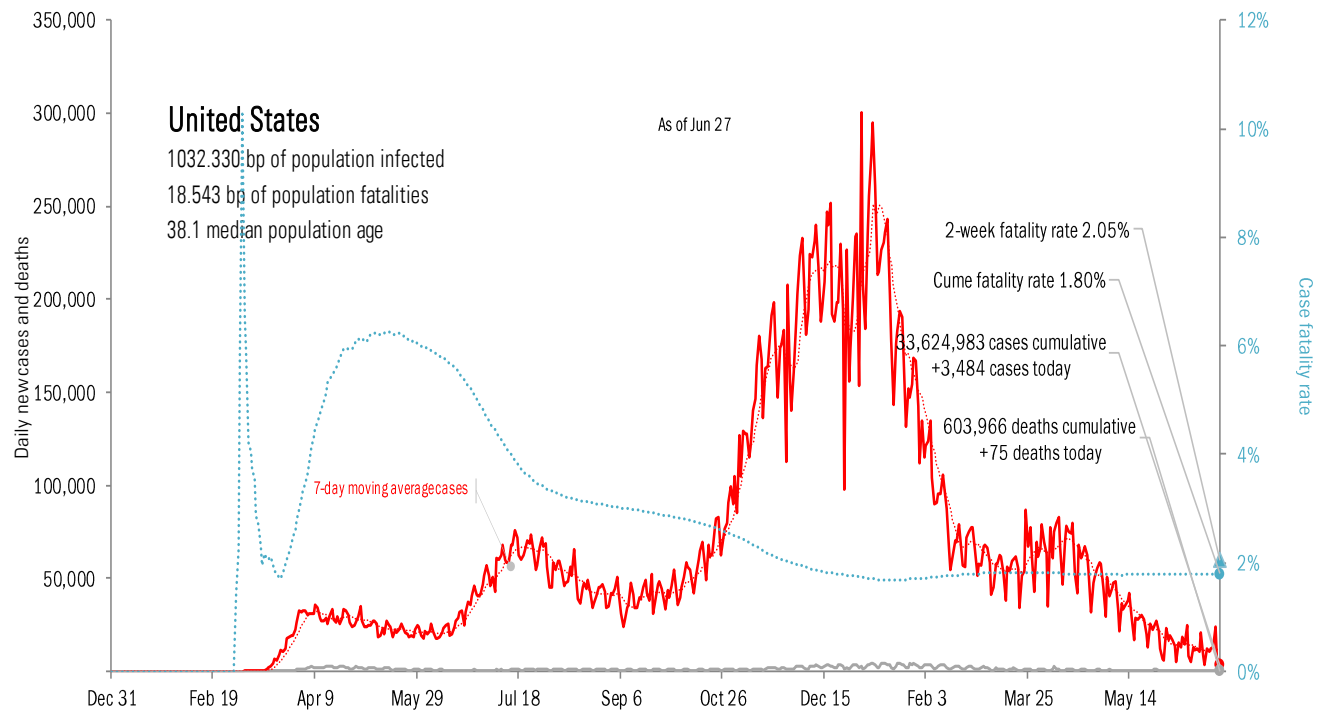
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
FL	+1,578		FL	+52		NV	+30		CA	3,815,751		CA	63,589		TX	253,743		RI	91%	MO	16%
CA	+861		CA	+20		TX	+27		TX	2,994,389		NY	53,664		CA	239,951		MA	84%	AR	12%
MO	+624		NY	+15		FL	+18		FL	2,363,086		TX	52,273		FL	186,675		MO	83%	UT	11%
NY	+381		PA	+9		CA	+16		NY	2,114,123		FL	37,788		NY	136,394		PA	82%	WA	10%
UT	+282		TX	+8		PA	+16		IL	1,390,432		PA	27,651		GA	109,083		MD	81%	CO	10%
CO	+233		UT	+8		NY	+10		PA	1,216,133		NJ	26,437	#N/A	0	MN	80%	WY	9%		
GA	+228		CO	+7		OK	+10		GA	1,133,291		IL	25,632		CH	179,373		MI	79%	NV	9%
TX	+176		MN	+4		AZ	+8		CH	1,110,700		GA	21,393		IL	82,478		FL	78%	MT	9%
CH	+154		MD	+3		TN	+8		NJ	1,022,830		MI	20,959		KY	77,899		CT	78%	TX	9%
NJ	+150		NJ	+3		AL	+5		NC	1,012,343		CH	20,281		MI	73,092		GA	77%	ID	7%
+4,667			+129			+148			18,173,078			349,667			1,338,688						
All states	+5,062			+127			+65		All states	33,624,983			603,966			2,384,382		All states	70%		67%
Top ten	92%			102%			228%		Top ten	54%			58%			56%		Median	73%		4%

Some states not reporting

Five most improved US states

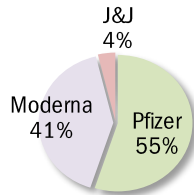
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-1,225	GA	-24	AR	-25	MD	+100 bp
VA	-530	CA	-13	GA	-18	DE	+60 bp
AZ	-475	VA	-12	KS	-18	NY	+60 bp
WA	-421	AZ	-11	MO	-18	IL	+50 bp
CO	-338	TX	-11	MI	-12	WI	+50 bp



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	393,880,915				+0.007 million	US	45.8%	53.6%
Doses administered	332,833,076				+1.210 million	UK	47.8%	65.3%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	28.8%	49.3%
Total population	183,882,077	55%	157,146,311	47%	+0.847 million	Spain	34.0%	52.0%
Age 12 to 17	8,577,207	34%	6,272,874	25%	+0.104 million	Germany	35.1%	53.2%
Age 18 to 64	125,548,456	62%	106,740,521	52%	+0.646 million	Italy	29.4%	55.1%
Age 65 and over	49,547,373	91%	44,019,530	80%	+0.094 million	Australia	4.8%	24.0%



AK
60.7%
48.5%
42.6%

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 **124 days** by Oct 29, 2021

58.4% of population >18 immunized
11.5% previously tested positive
69.8% vs 60% adult herd immunity*

Global data differs from sources, timing

China NA	ME
	72.7%
	66.1%
	60.7%
VT	NH
77.9%	71.3%
73.6%	61.8%
65.0%	55.2%

WA 64.8% 60.9% 54.0%	ID 49.4% 39.4% 35.8%	MT 55.2% 47.6% 42.2%	ND 49.2% 43.8% 38.7%	MN 60.8% 56.8% 51.0%	IL 61.1% 59.1% 45.5%	MI 61.3% 51.2% 46.6%	NY 64.6% 59.7% 53.7%	MA 73.7% 70.1% 61.0%		
OR 70.4% 58.4% 52.5%	NV 52.8% 49.1% 41.5%	WY 47.5% 39.0% 34.1%	SD 57.5% 50.3% 45.0%	IA 57.7% 51.2% 47.7%	IN 52.8% 44.4% 39.6%	OH 55.7% 48.1% 44.3%	PA 65.1% 62.5% 49.3%	NJ 68.3% 62.5% 54.8%	CT 69.6% 66.7% 60.0%	RI 74.1% 64.3% 58.3%
CA 65.3% 61.0% 49.4%	UT 52.8% 48.1% 36.7%	CO 63.9% 57.7% 51.4%	NE 56.7% 51.4% 47.1%	MO 52.3% 44.6% 38.7%	KY 52.8% 49.3% 43.0%	WV 55.8% 43.3% 37.0%	VA 63.7% 58.8% 51.2%	MD 73.4% 61.6% 55.6%	DE 69.0% 57.9% 49.2%	
	AZ 58.6% 49.3% 39.8%	NM 59.6% 61.7% 53.6%	KS 55.8% 49.0% 41.6%	AR 50.0% 41.7% 33.9%	TN 48.8% 41.5% 35.1%	NC 58.7% 45.1% 39.2%	SC 54.3% 44.0% 38.2%	DC 79.1% 60.9% 51.8%		
		OK 53.5% 44.6% 38.1%	LA 46.1% 37.9% 34.3%	MS 47.5% 35.9% 29.3%	AL 51.8% 39.6% 32.3%	GA 55.4% 42.5% 35.5%				
HI 71.4% 69.5% 51.6%		TX 58.1% 47.9% 40.8%					FL 61.7% 53.2% 44.9%	PR 68.2% 57.5% 45.1%		

As of Jun 27

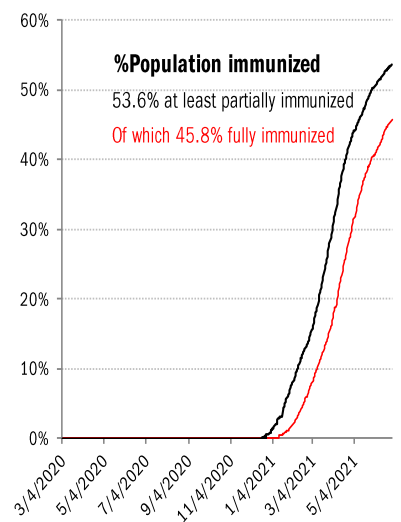
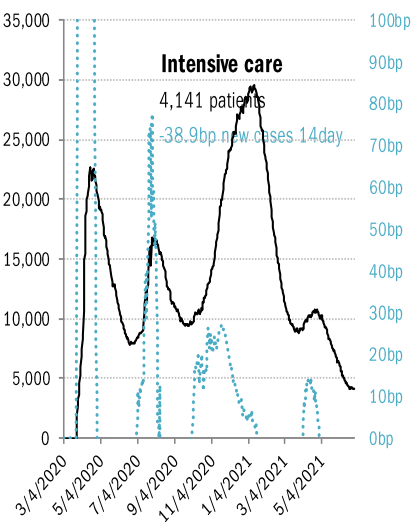
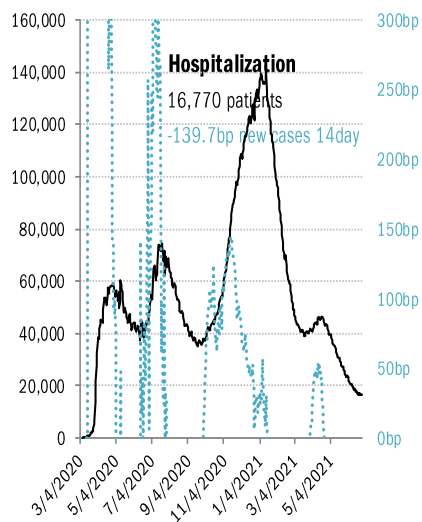
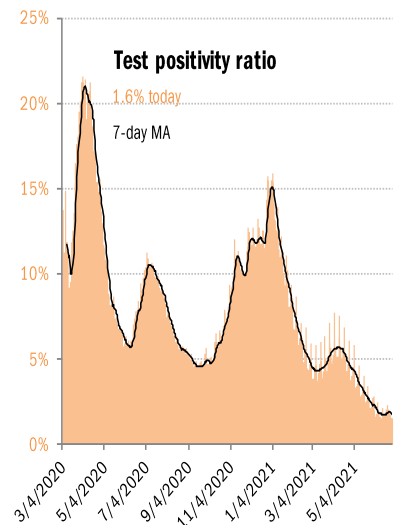
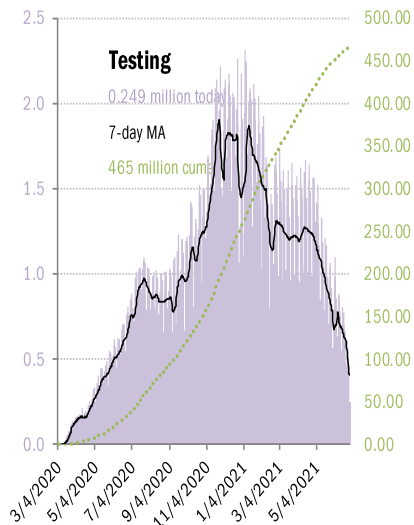
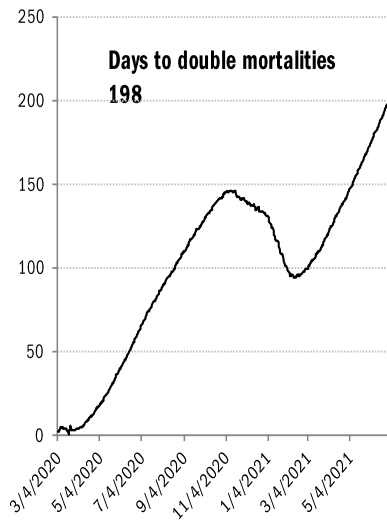
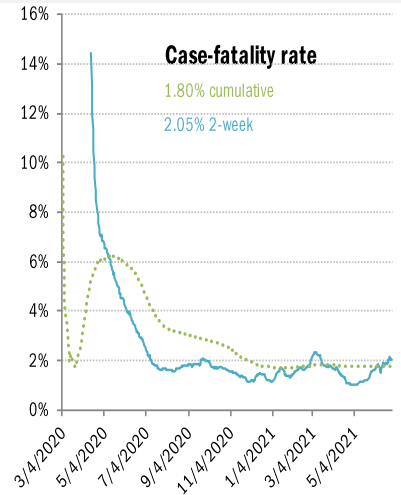
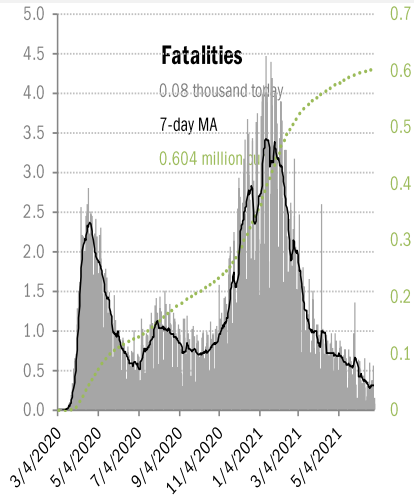
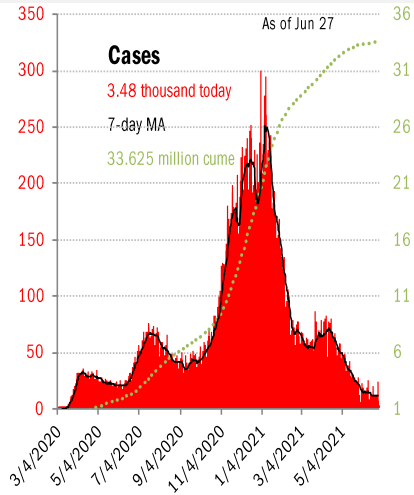
* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.

** 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

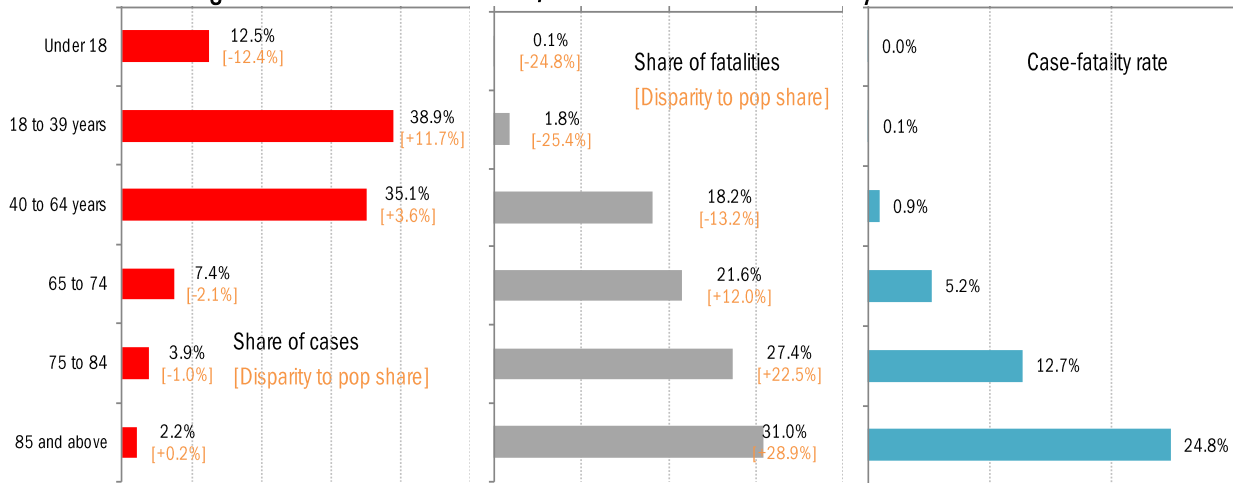
US deep-dive

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

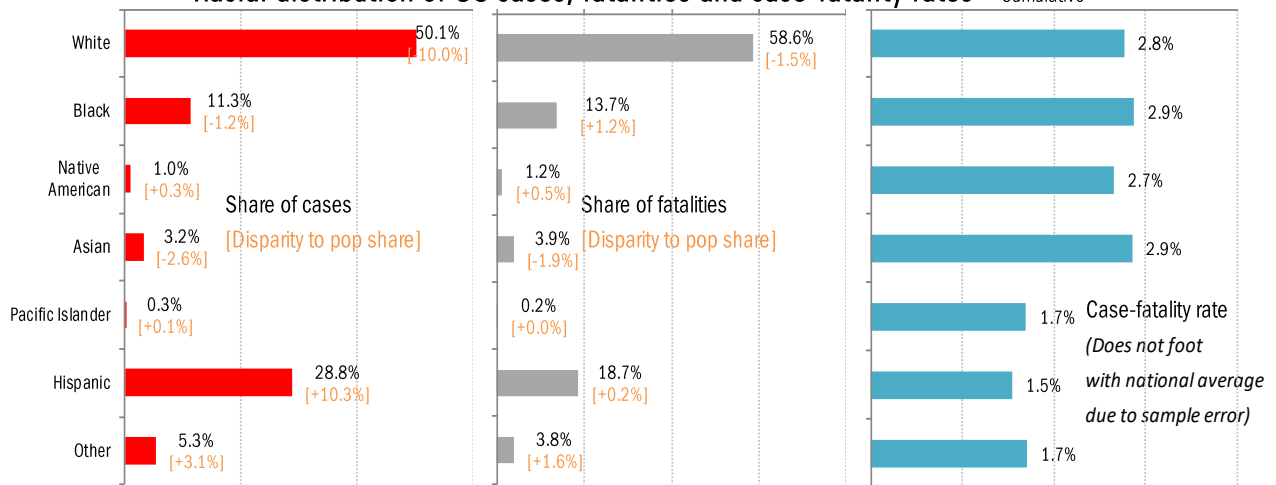


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

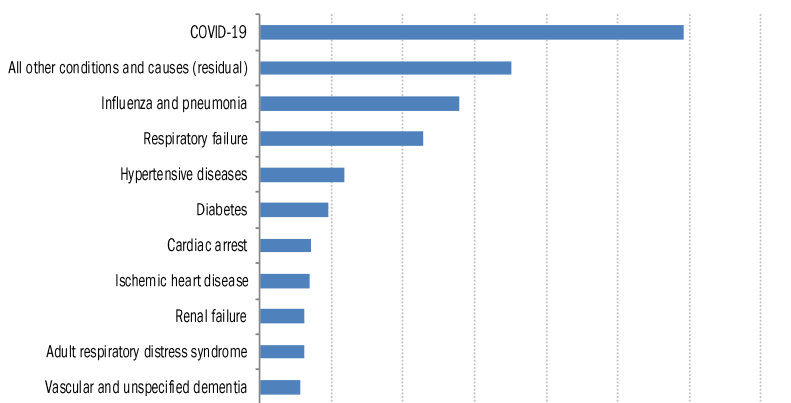


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jun 20

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

[A Covid Commission Americans Can Trust](#)

Martin Kulldorff and Jay Bhattacharya

Wall Street Journal

June 27, 2021

[Six months of COVID vaccines: what 1.7 billion doses have taught scientists](#)

Heidi Ledford

Nature

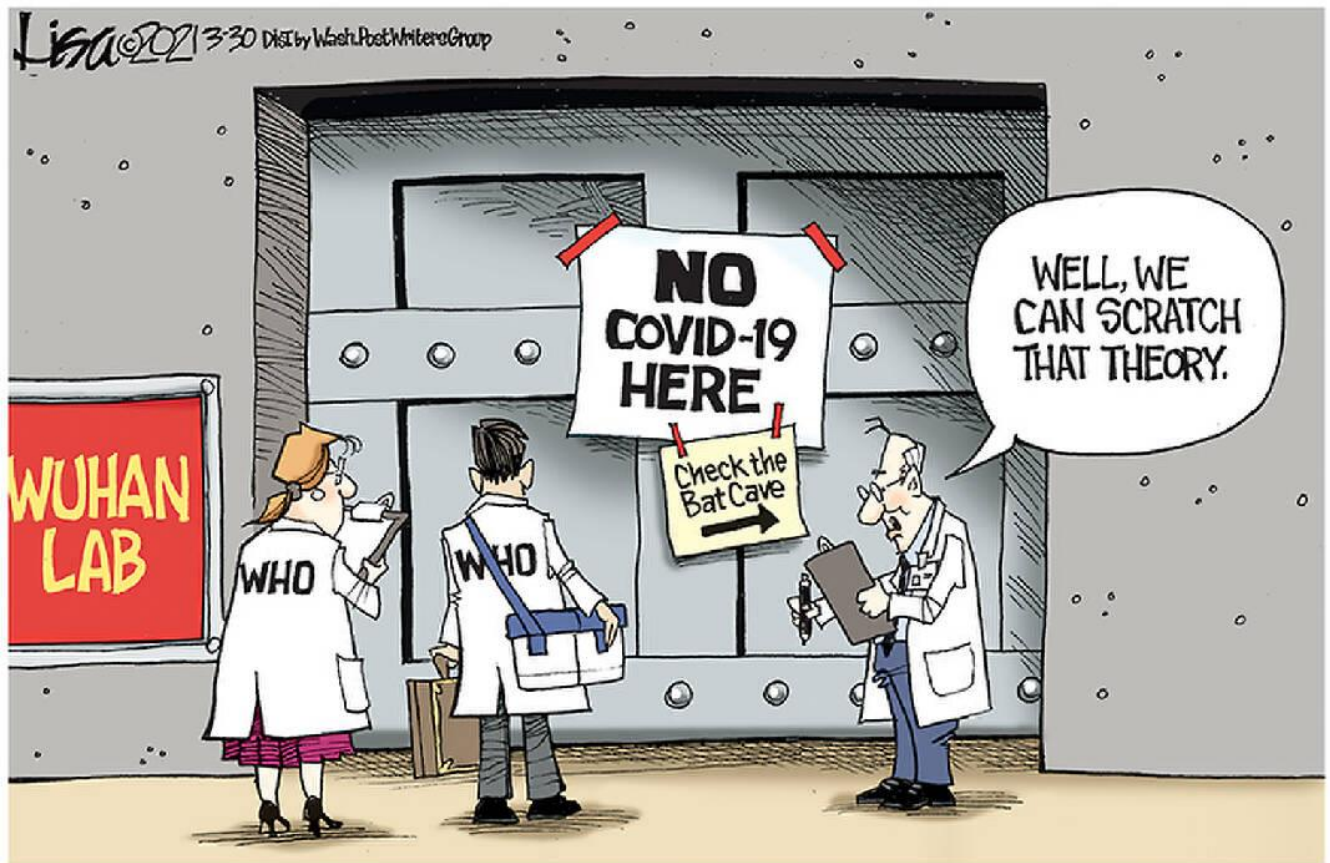
June 4, 2021

[Known unknowns: the "delta-plus" variant](#)

The Economist

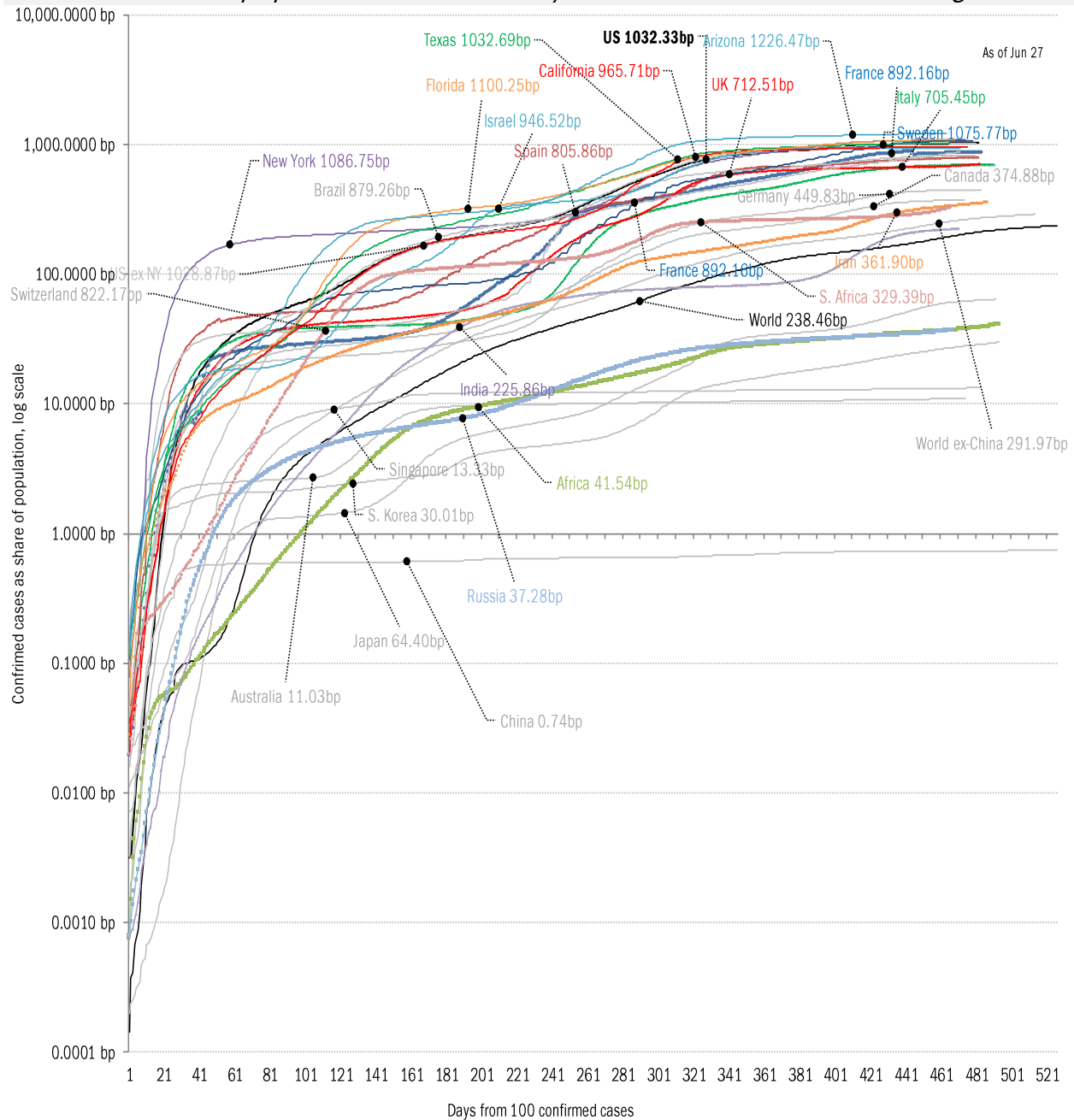
June 28, 2021

Meme of the day



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

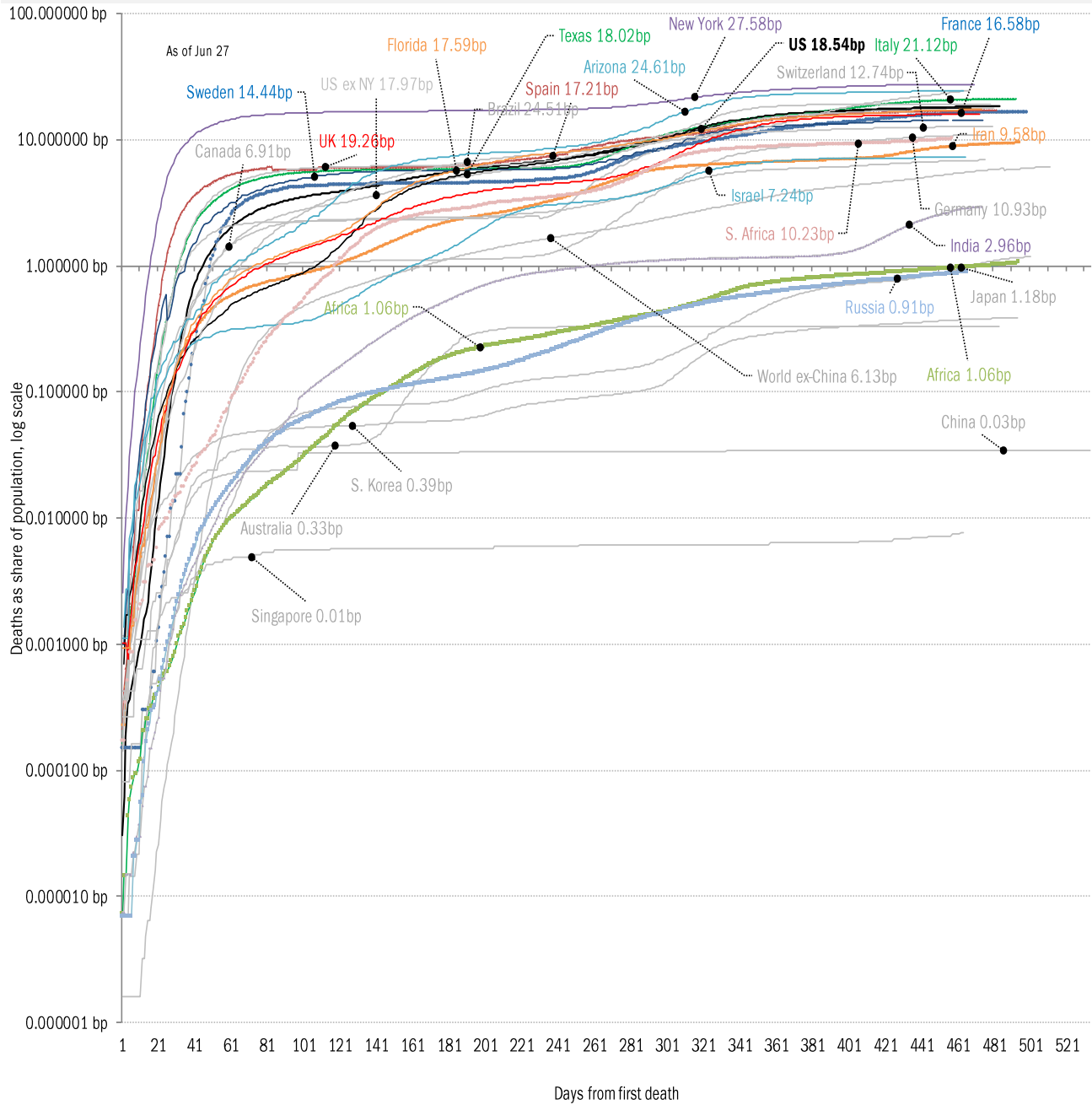
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

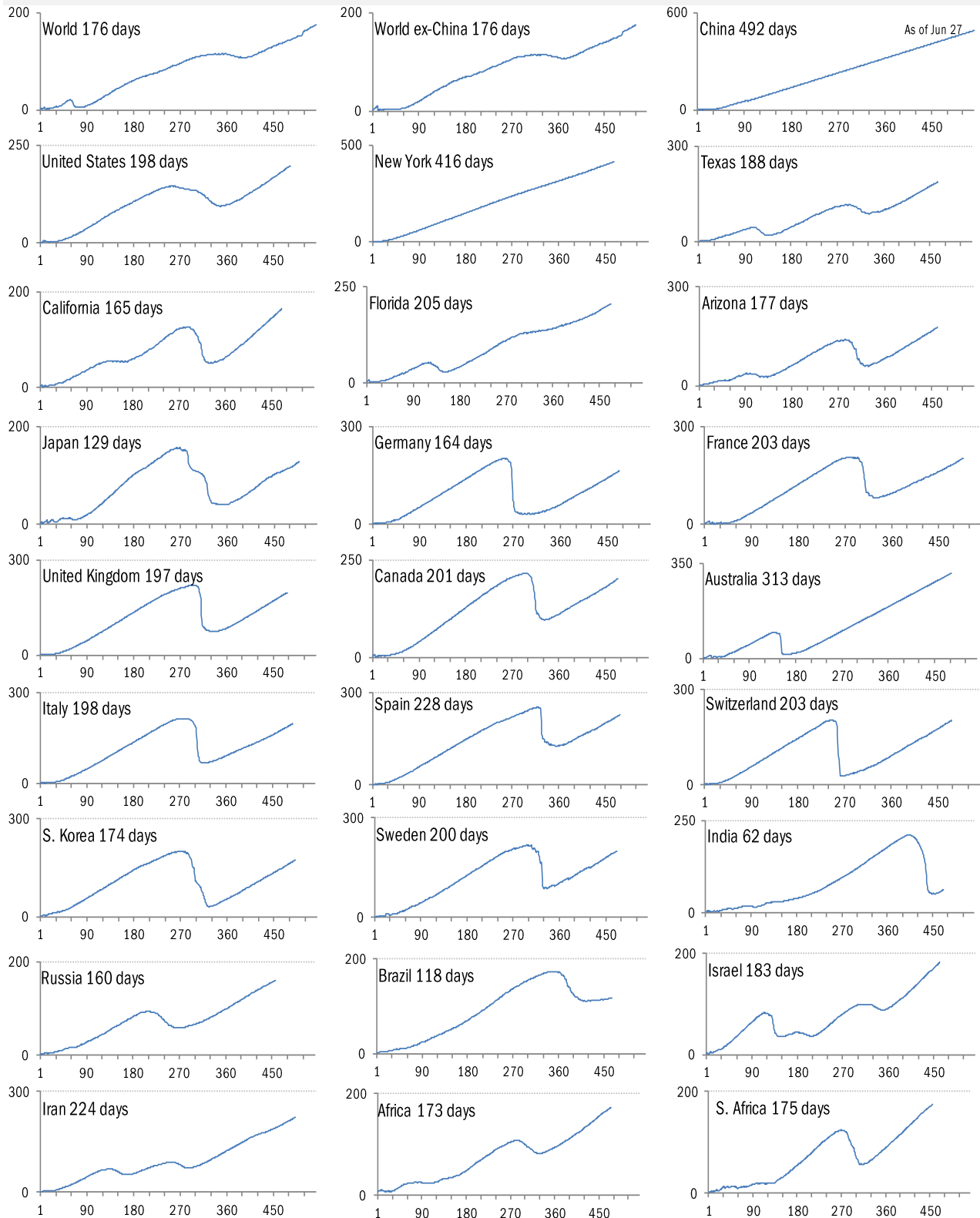


Source: [Johns Hopkins](#), TrendMacro calculations

"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

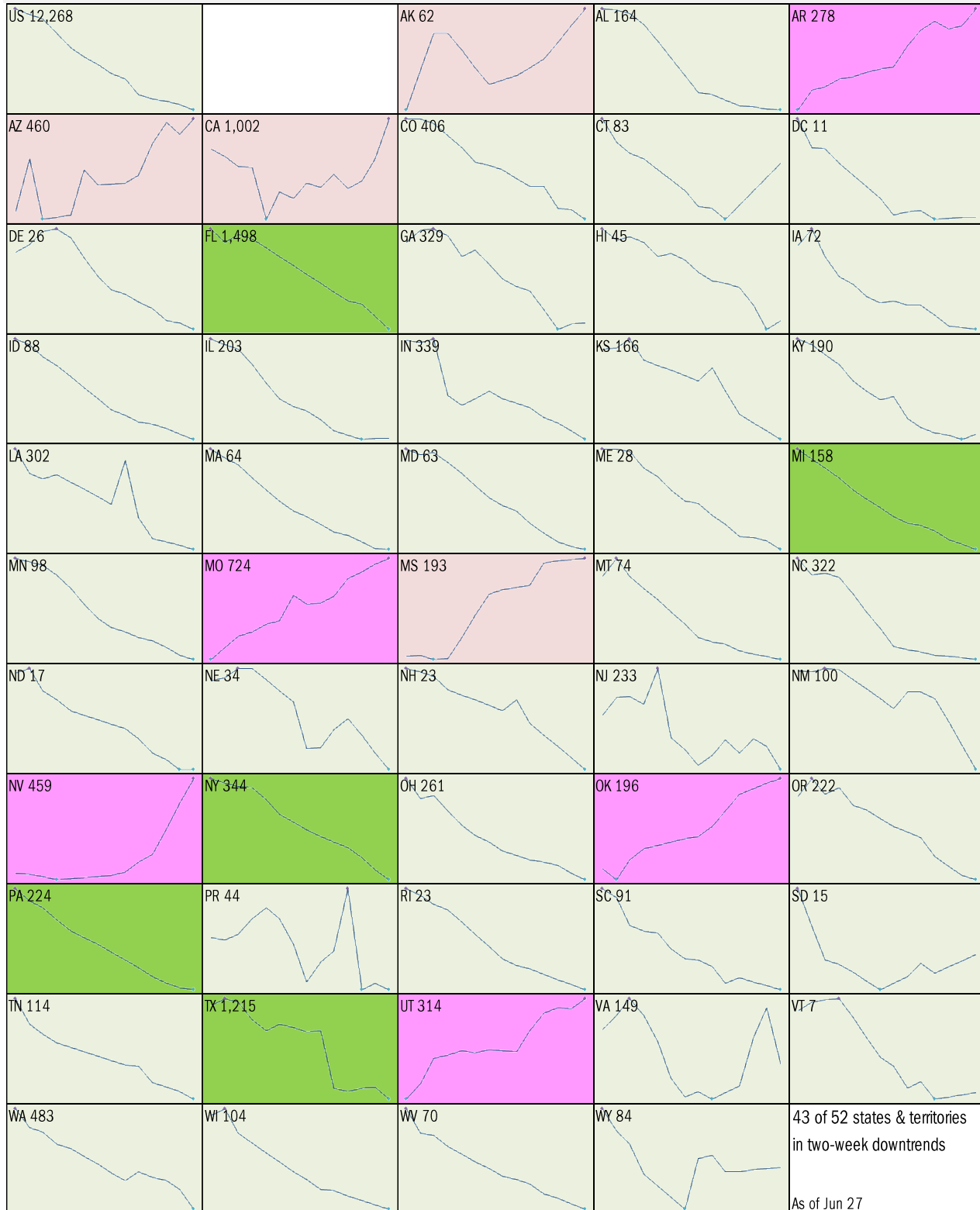


Source: [Johns Hopkins](#), TrendMacro calculations

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

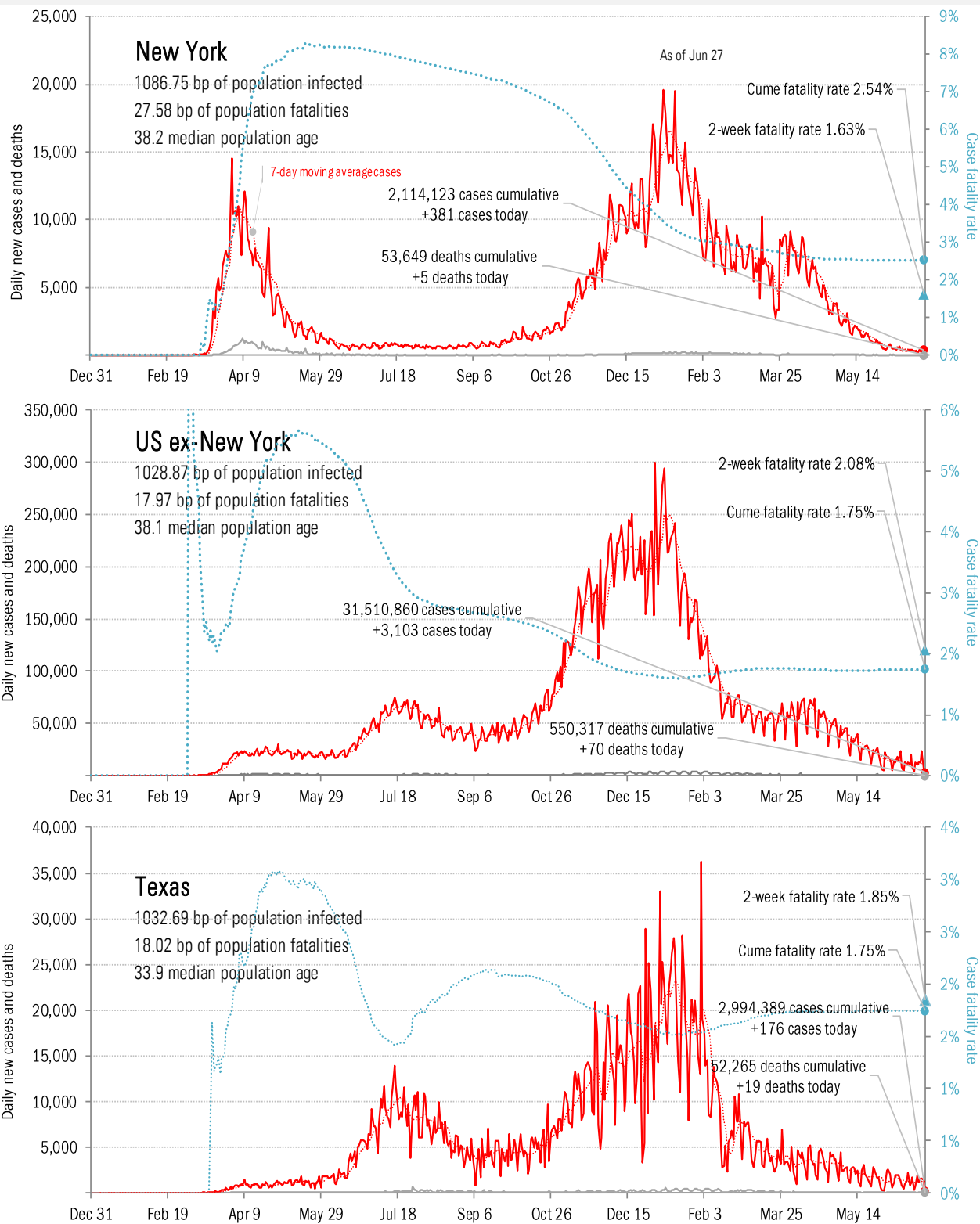
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



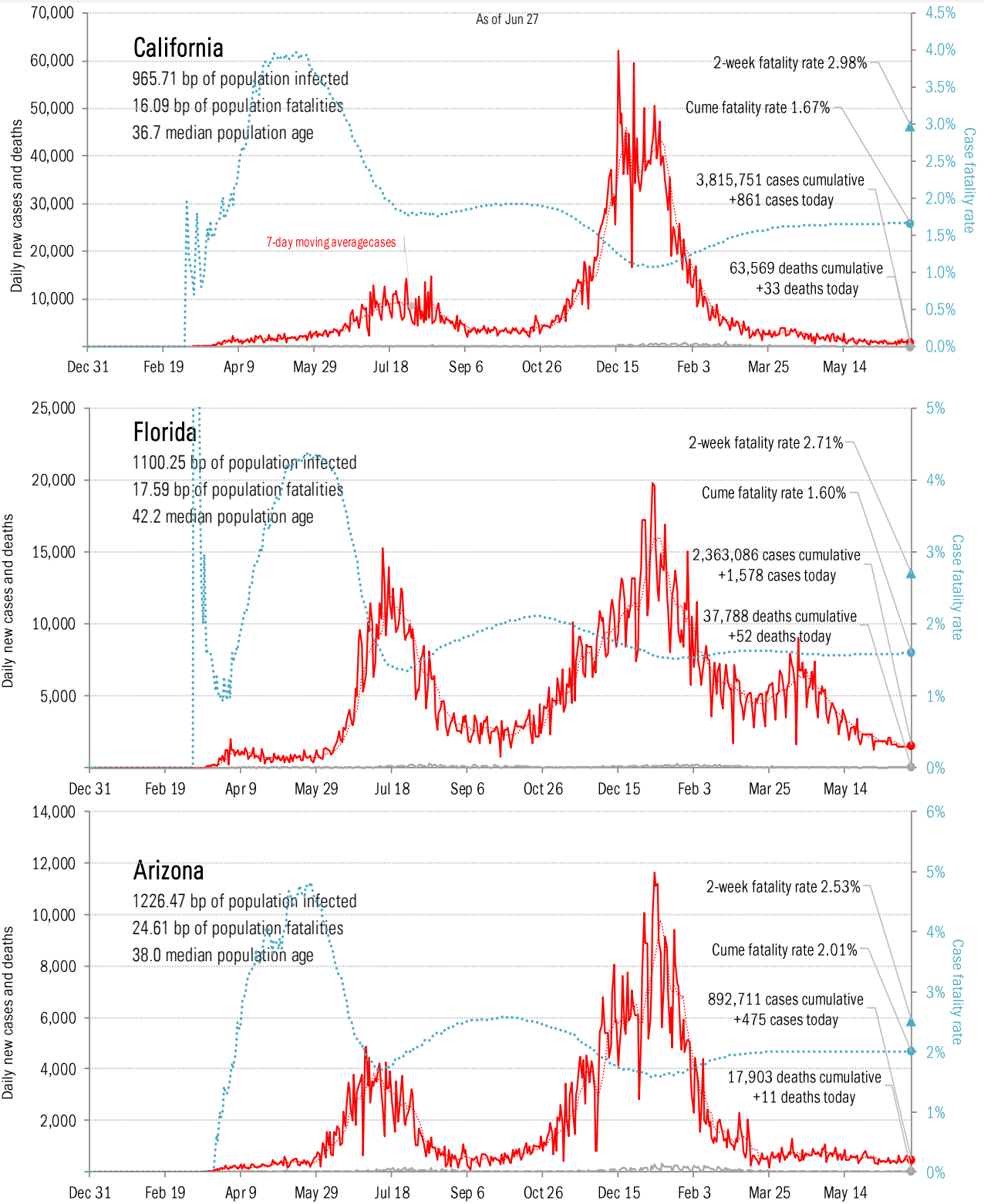
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



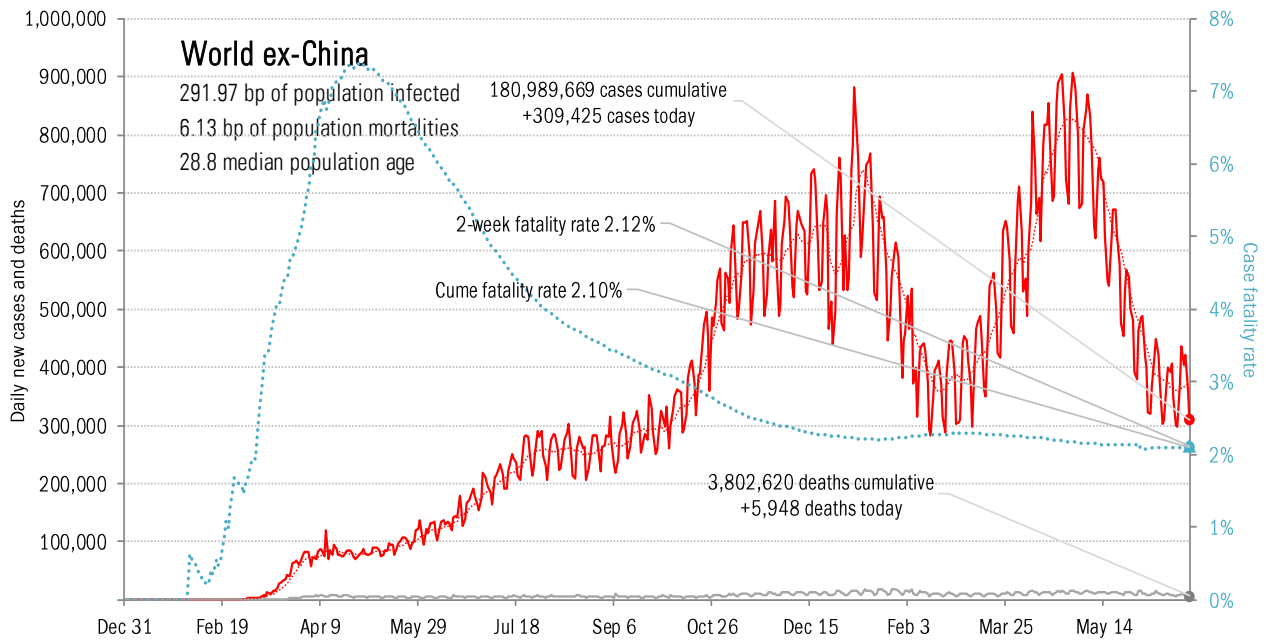
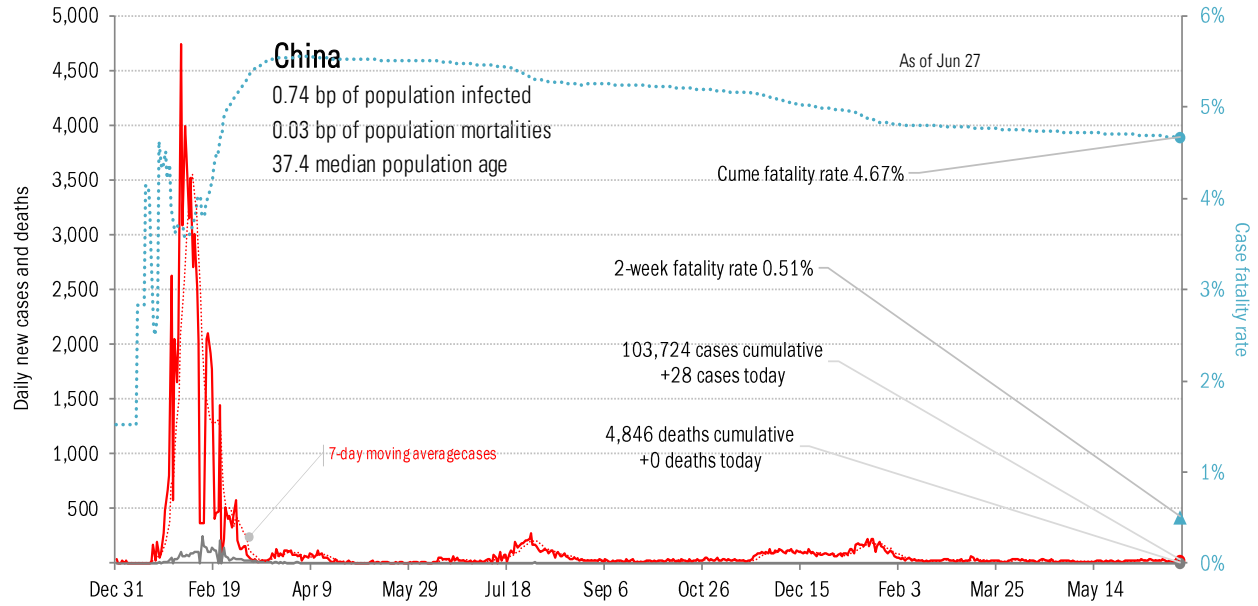
Source: [Johns Hopkins](#), TrendMacro calculations

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



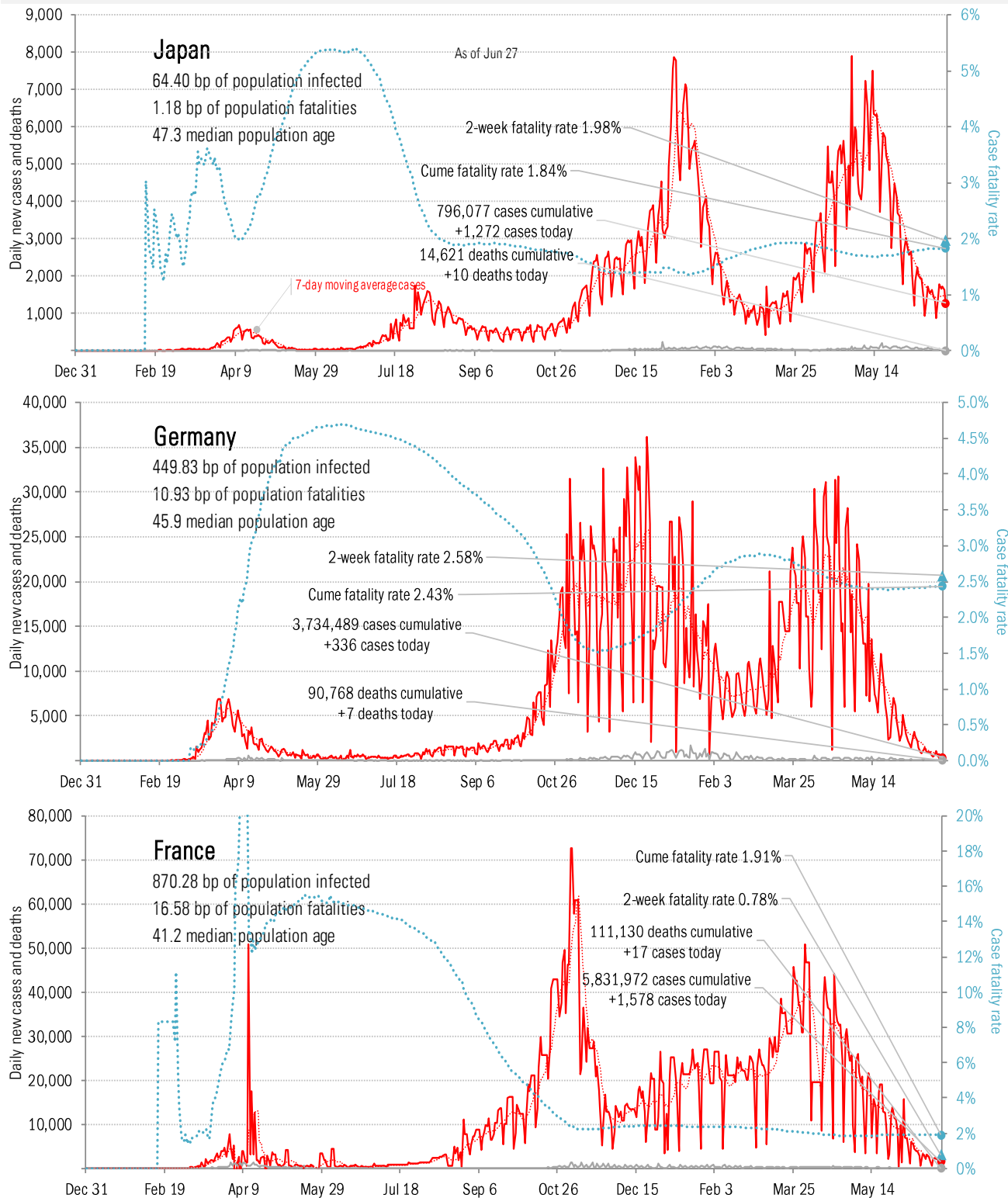
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



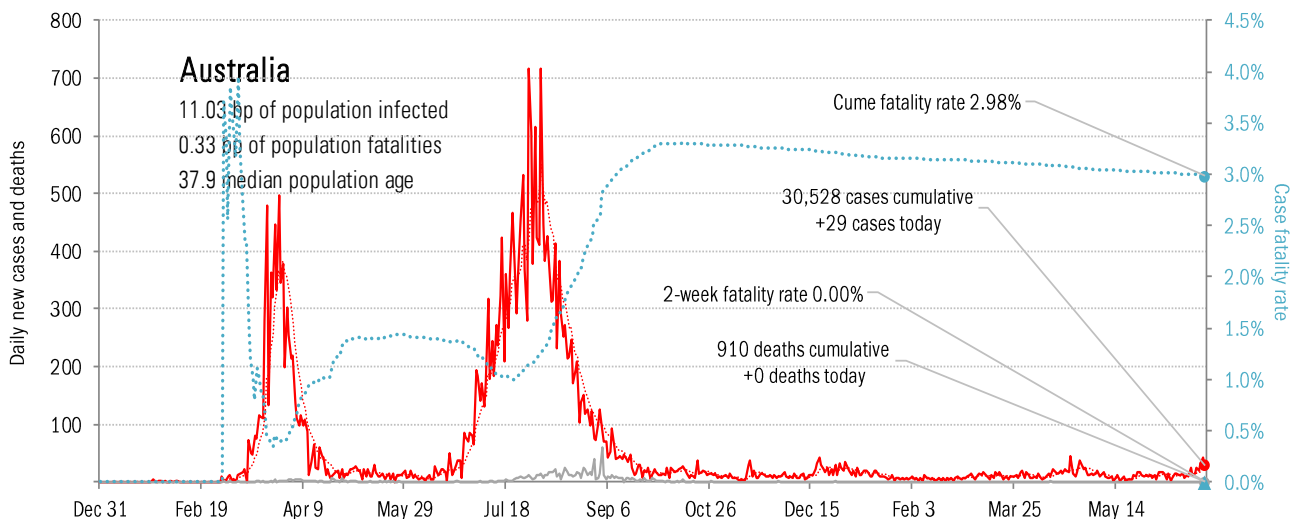
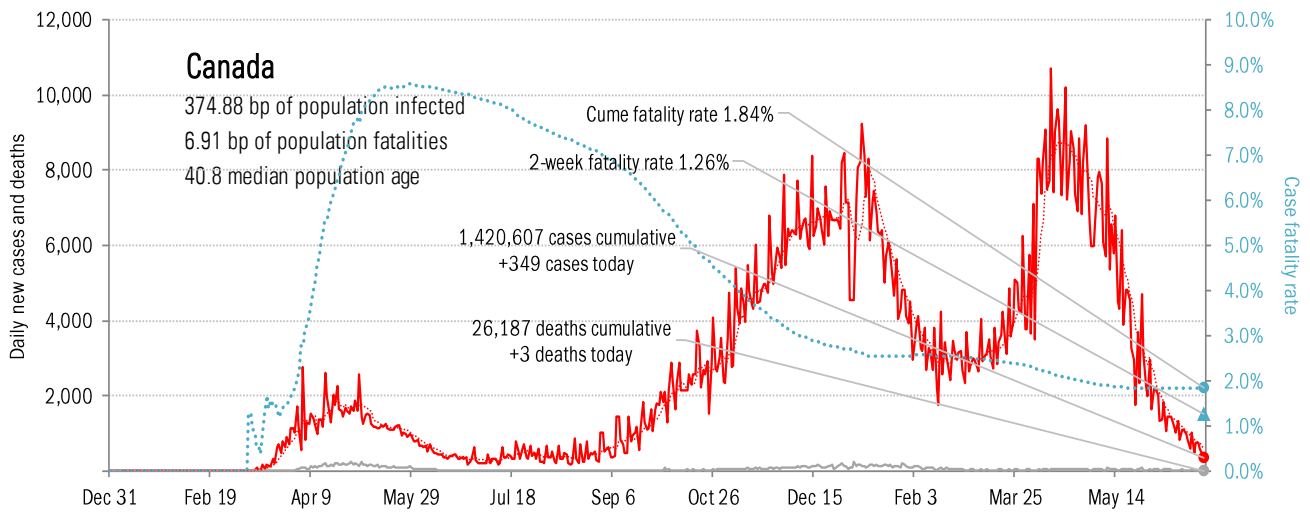
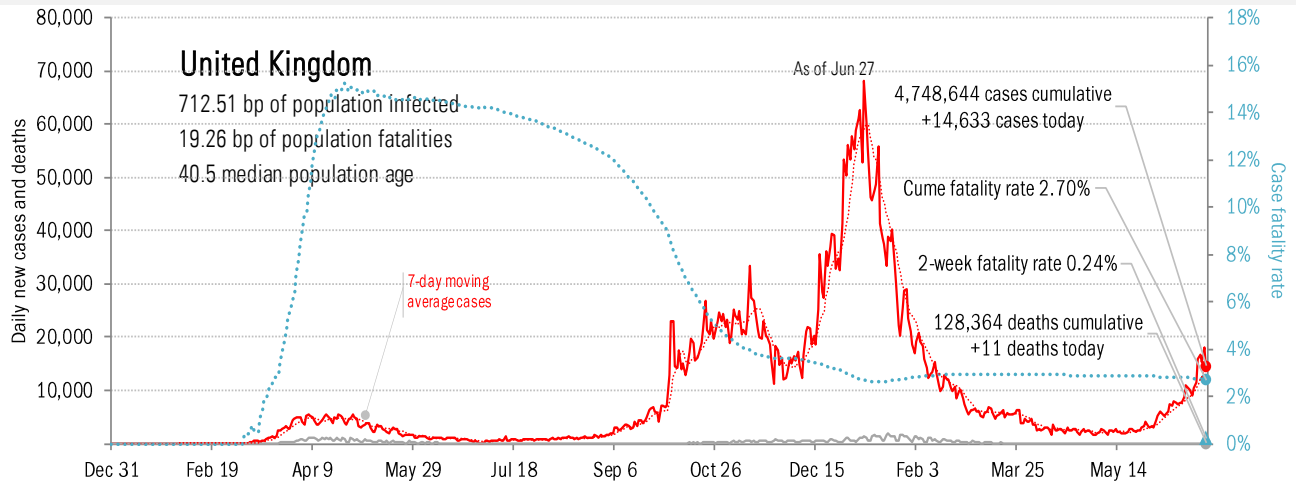
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



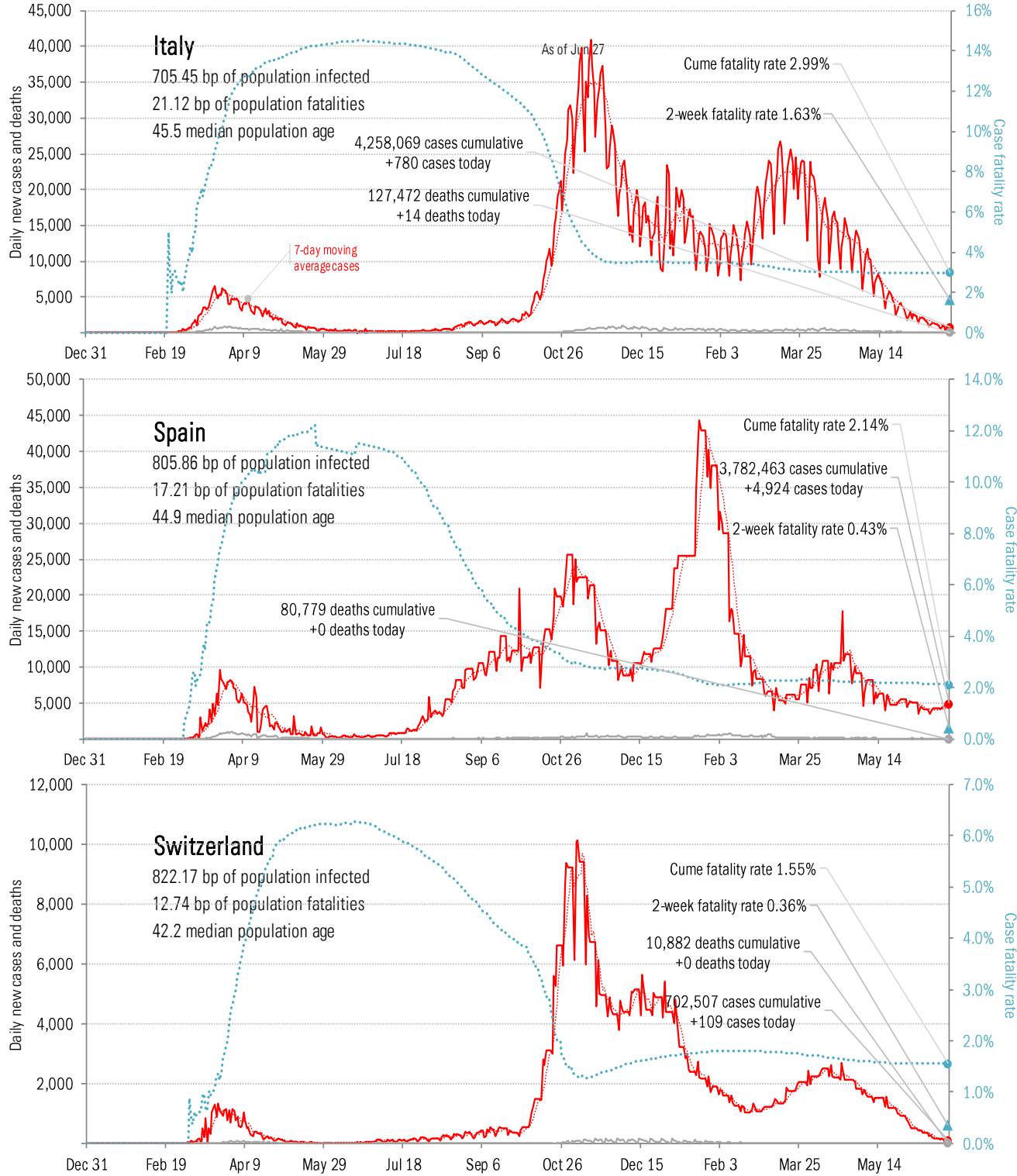
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



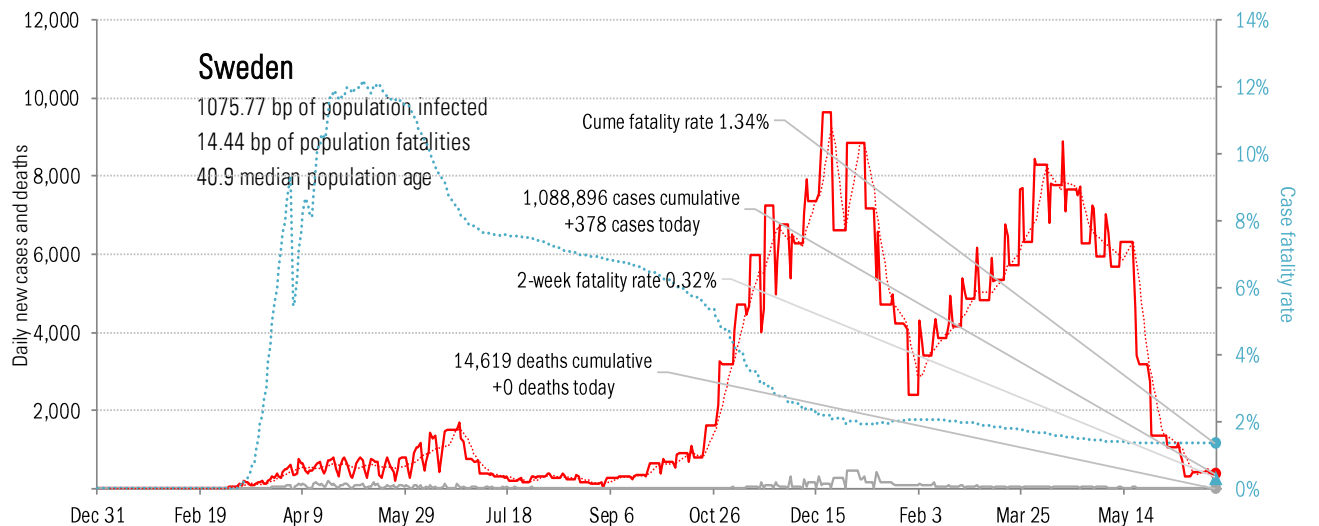
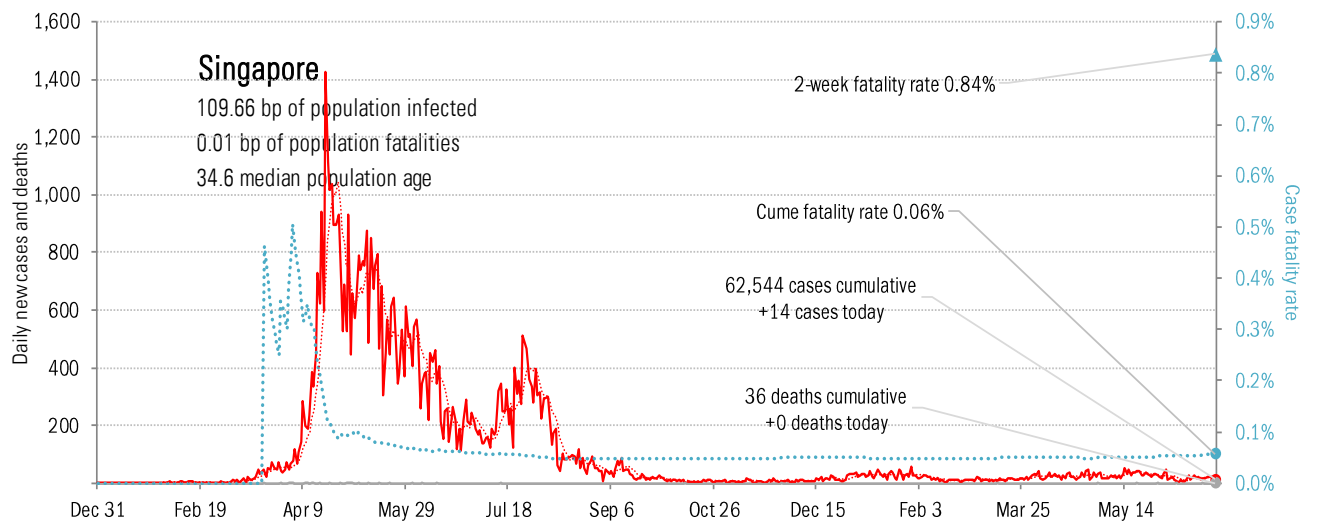
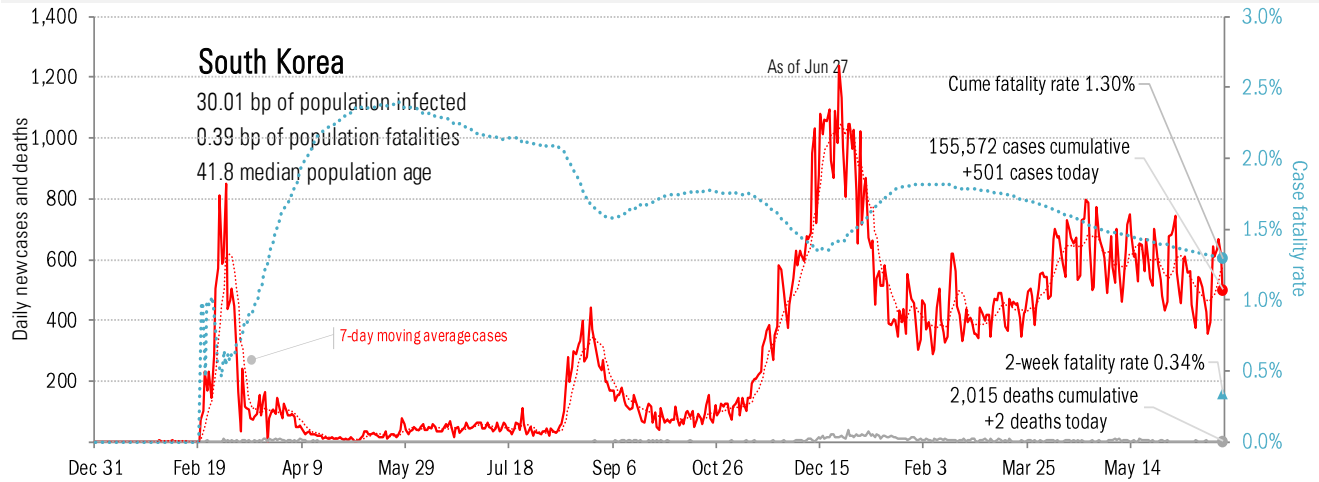
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



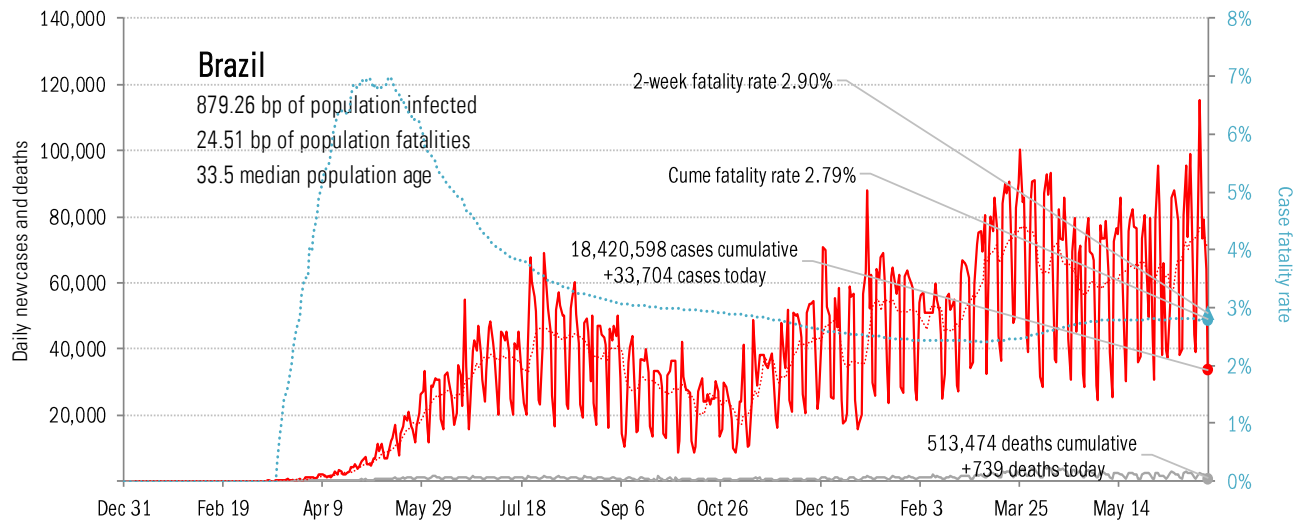
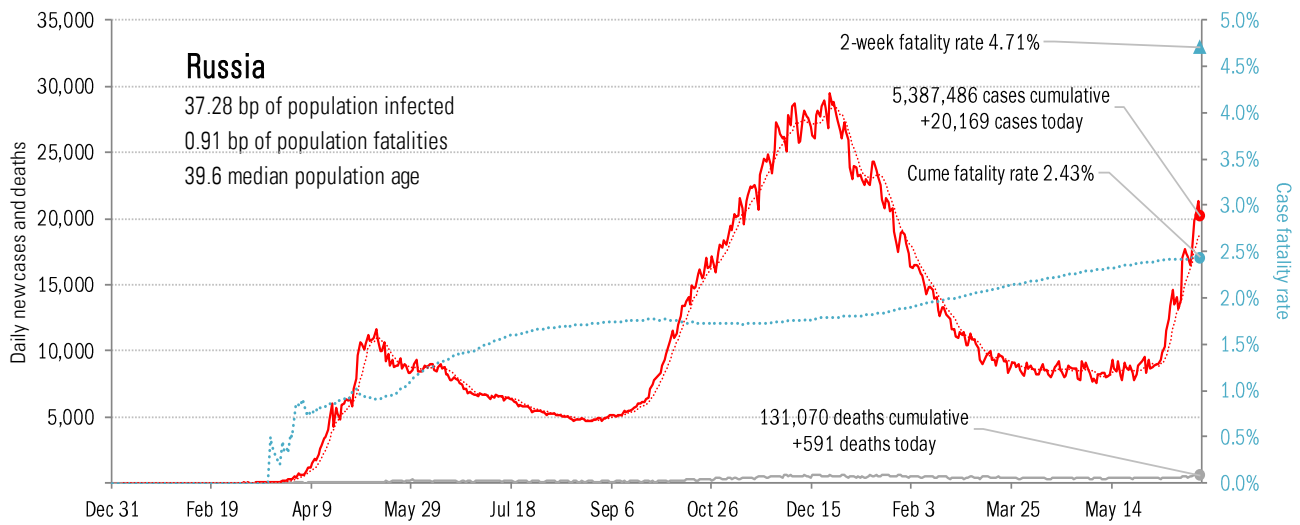
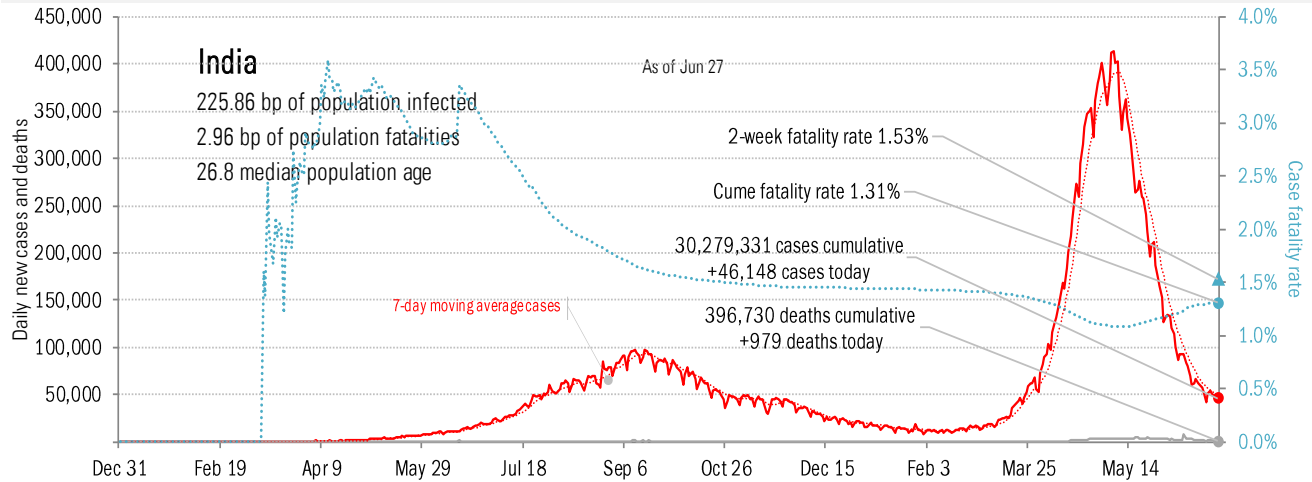
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



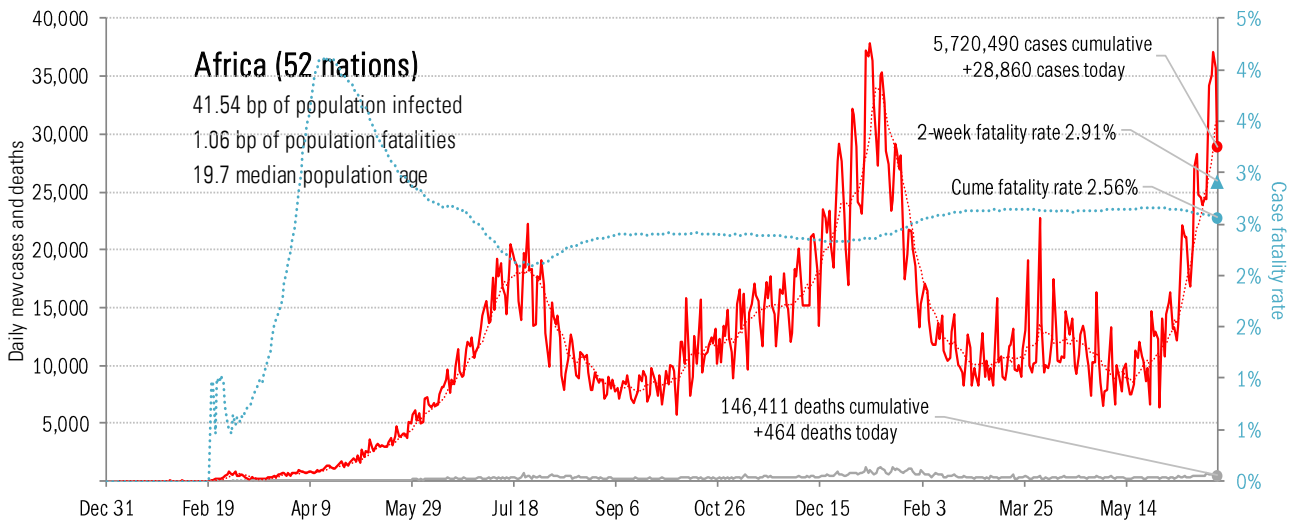
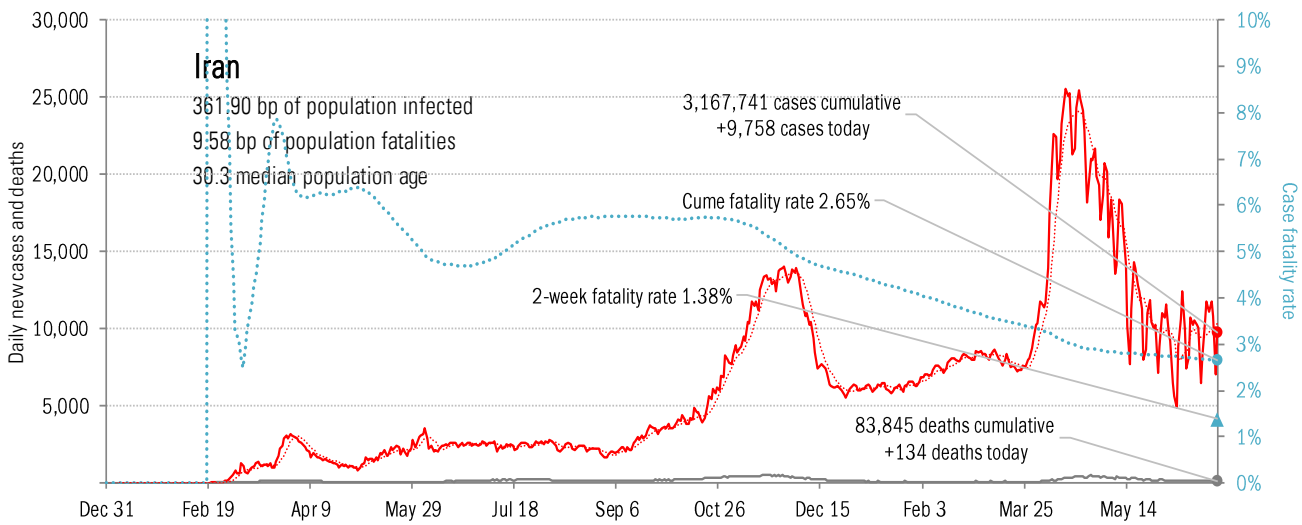
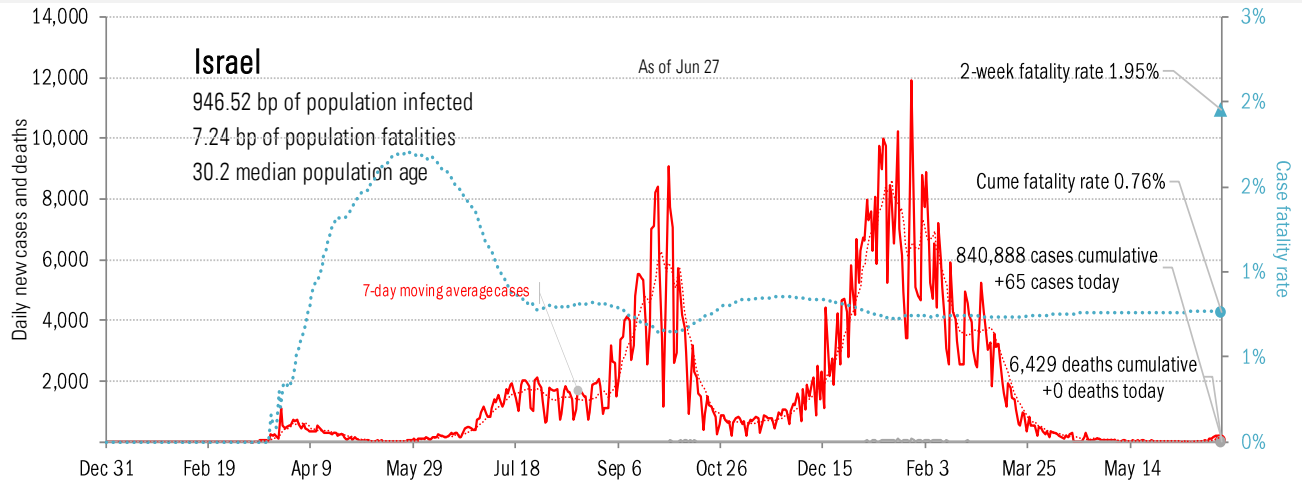
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



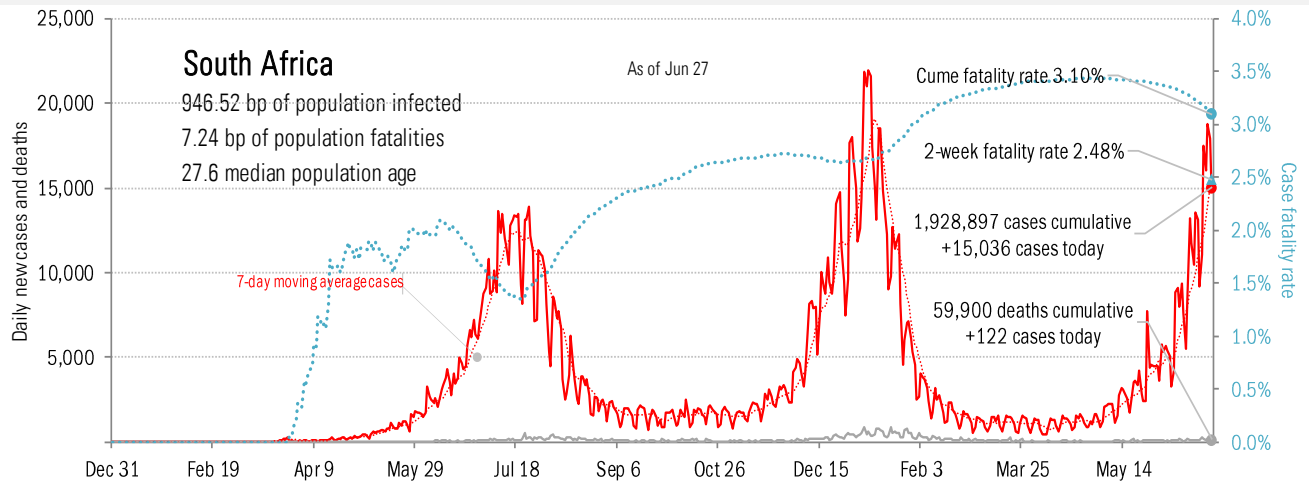
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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