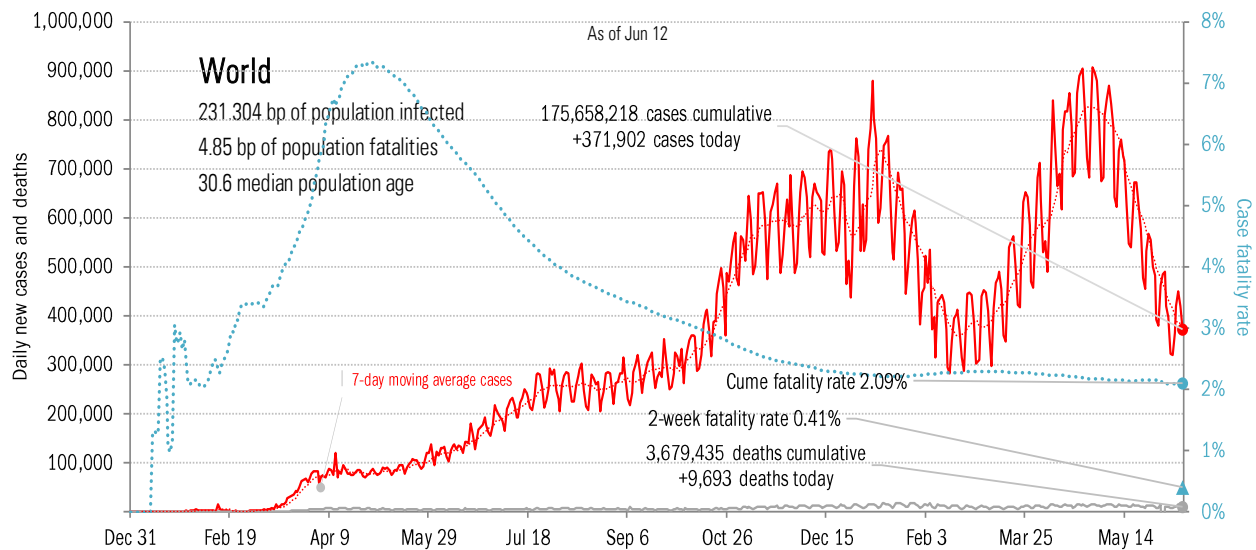
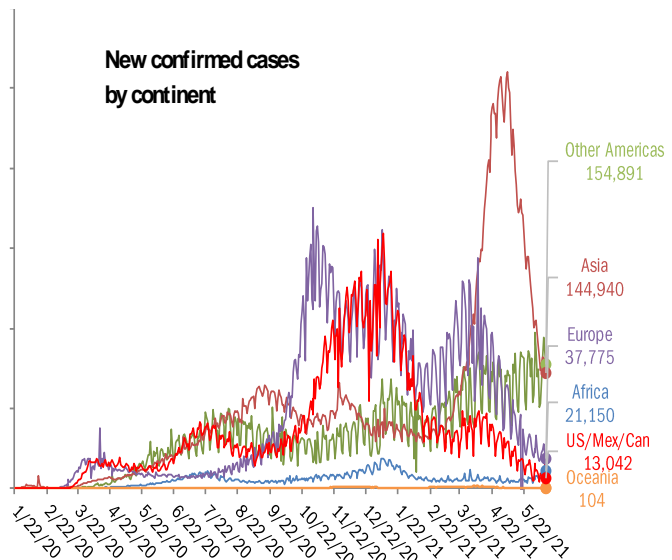


Data Insights: Covid-2019 Monitor

Sunday, June 13, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+80,834	India	+3,303
Brazil	+78,700	Brazil	+2,037
Colombia	+29,998	Colombia	+577
Argentina	+18,057	Argentina	+447
Russia	+13,360	Russia	+393
South Africa	+9,319	Mexico	+274
United States	+8,207	United States	+192
Philippines	+8,003	Bolivia	+164
Chile	+7,573	Indonesia	+164
United Kingdom	+7,552	Philippines	+145
+261,603		+7,696	
World	+371,902	World	+9,693
Top ten	70%	Top ten	79%



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

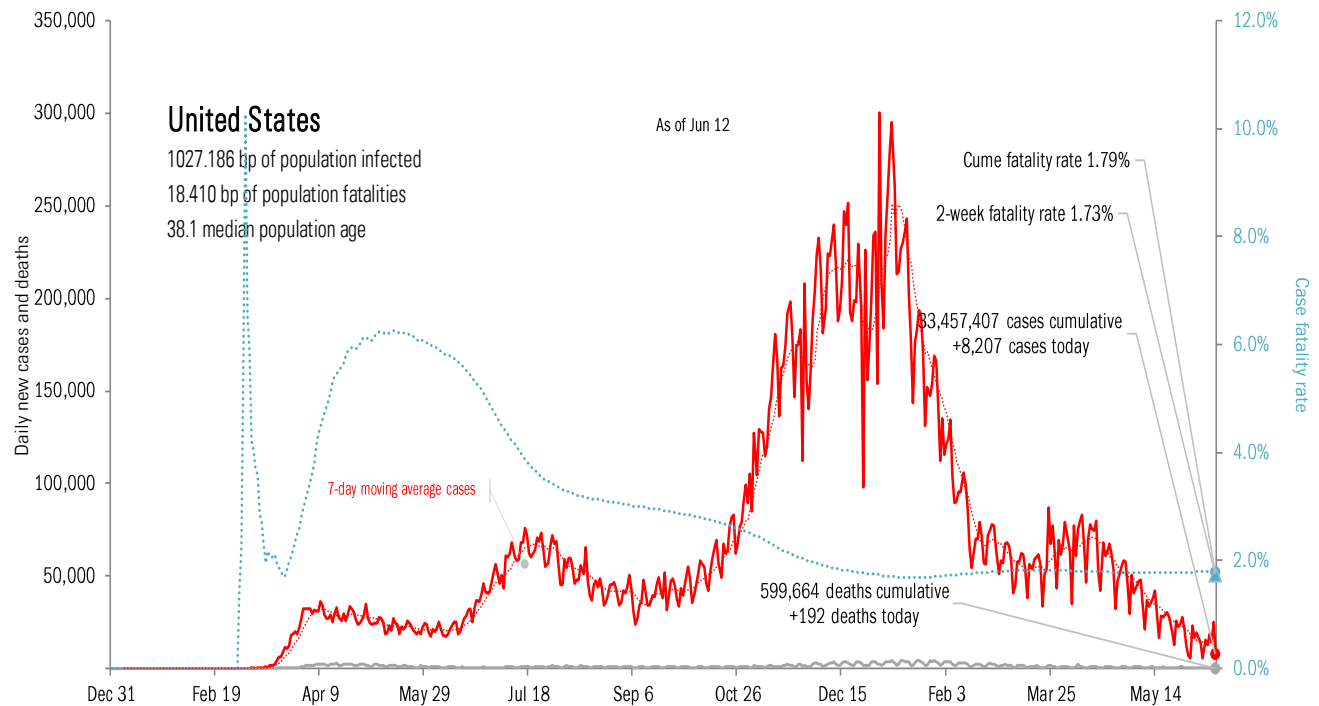
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
TX	+791		MI	+58		GA	+95		CA	3,801,738		CA	63,187		TX	250,936		RI	90%	MO	12%
WA	+712		IN	+31		MO	+21		TX	2,976,974		NY	53,539		CA	238,084		MA	85%	CO	12%
CO	+604		GA	+30		MS	+18		FL	2,344,321		TX	51,912		FL	183,316		PA	82%	WA	11%
AZ	+570		TX	+23		CK	+16		NY	2,108,950		FL	37,265		NY	135,534		MO	82%	WY	11%
MO	+555		AZ	+21		UT	+14		IL	1,387,217		PA	27,465		GA	108,115		MD	81%	ID	11%
CA	+509		IL	+17		IA	+8		PA	1,212,831		NJ	26,324	#N/A	0		MI	80%	UT	9%	
IN	+443		NY	+17		NM	+6		GA	1,128,467		IL	25,469		CH	177,797		GA	80%	MS	9%
NY	+440		CO	+11		NE	+5		CH	1,106,796		GA	21,158		IL	81,810		MN	80%	AR	9%
CH	+385		VA	+10		ME	+4		NJ	1,019,107		MI	20,778		KY	76,650		CT	79%	ME	9%
GA	+375		KY	+8		FR	+4		NC	1,007,698		CH	20,091		MI	72,618		DC	79%	TX	8%
+5,384			+226			+191			18,094,099			347,188			1,324,860						
All states	+8,207			+192			+17		All states	33,457,407			599,664			2,358,961		All states	70%		67%
Top ten	66%			118%			1124%		Top ten	54%			58%			56%		Median	72%		6%

Some states not reporting

Five most improved US states

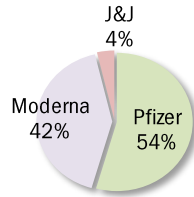
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
FL	-11,454	FL	-280	WA	-39	VT	+71 bp
CA	-742	CA	-109	CA	-38	MD	+49 bp
TX	-506	CH	-70	MD	-36	NJ	+47 bp
NC	-425	TX	-20	AR	-18	CR	+47 bp
CO	-326	NC	-19	ND	-9	CA	+47 bp



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	386,936,795				+0.983 million	US	42.8%	51.9%
Doses administered	317,405,477				+1.625 million	UK	43.4%	60.8%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	20.8%	44.6%
Total population	177,941,114	53%	147,121,592	44%	+1.035 million	Spain	26.2%	44.8%
Age 12 to 17	7,399,405	29%	4,040,157	16%	+0.258 million	Germany	25.5%	47.8%
Age 18 to 64	121,410,682	60%	99,901,418	49%	+0.667 million	Italy	23.1%	47.9%
Age 65 and over	49,030,344	90%	43,129,230	79%	+0.103 million	Australia	2.7%	20.0%



AK
60.1%
47.2%
40.8%

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 **101 days** by Sep 21, 2021

68.4% of population >18 immunized
14.1% previously tested positive
82.5% vs 60% adult herd immunity*

Global data differs from sources, timing

China NA	ME
	71.5%
	64.9%
	57.6%
VT	NH
77.0%	69.8%
72.0%	61.1%
60.5%	53.1%

WA 63.5% 58.7% 50.0%	ID 48.8% 38.4% 33.9%	MT 54.5% 46.5% 40.4%	ND 48.5% 42.9% 37.4%	MN 60.1% 55.5% 48.3%	IL 60.3% 56.8% 42.0%	MI 60.5% 49.9% 44.1%	WI 54.3% 52.2% 46.2%	NY 63.2% 57.6% 49.6%	MA 72.6% 68.4% 57.4%	
OR 69.2% 56.6% 48.8%	NV 51.5% 47.2% 38.7%	WY 47.0% 38.1% 32.9%	SD 56.8% 49.2% 43.7%	IA 56.9% 50.2% 45.5%	IN 52.0% 42.9% 37.1%	OH 55.0% 47.0% 41.9%	PA 64.1% 60.6% 46.4%	NJ 67.0% 62.5% 52.1%	CT 68.6% 64.9% 56.5%	RI 73.3% 62.5% 54.6%
CA 64.3% 58.7% 46.1%	UT 52.1% 46.4% 34.2%	CO 62.9% 55.9% 48.0%	NE 55.8% 49.5% 44.0%	MO 51.4% 43.2% 35.8%	KY 52.1% 47.7% 40.1%	WV 55.3% 42.0% 35.3%	VA 62.5% 57.0% 47.9%	MD 72.2% 59.1% 51.1%	DE 67.9% 56.2% 45.7%	
	AZ 57.5% 47.7% 37.7%	NM 58.6% 59.1% 49.6%	KS 54.9% 47.8% 39.7%	AR 49.4% 40.5% 32.3%	TN 48.1% 40.0% 32.9%	NC 58.0% 44.2% 37.4%	SC 53.4% 42.0% 35.5%	DC 78.3% 58.4% 48.2%		
			OK 52.9% 42.3% 34.7%	LA 45.4% 36.7% 32.4%	MS 46.8% 34.9% 28.1%	AL 50.6% 36.8% 30.3%	GA 54.3% 41.3% 33.8%			
HI 70.0% 68.1% 49.1%			TX 57.0% 46.0% 37.8%					FL 60.4% 51.0% 41.4%	PR 64.1% 53.6% 40.2%	

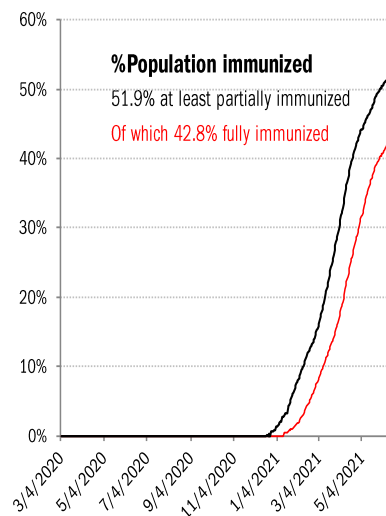
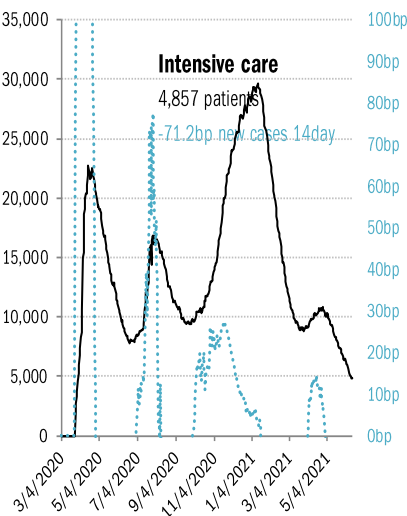
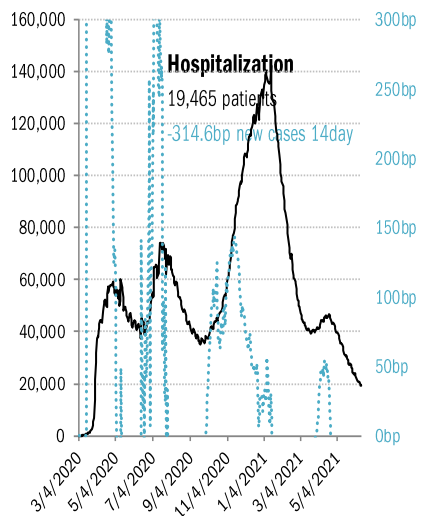
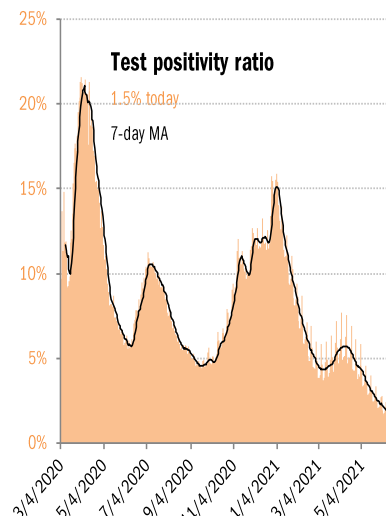
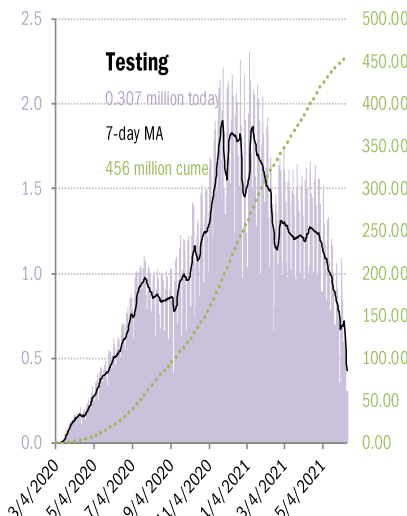
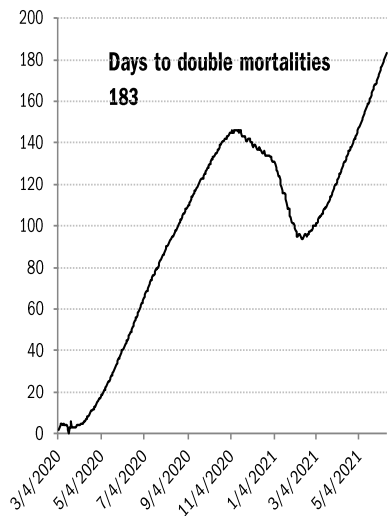
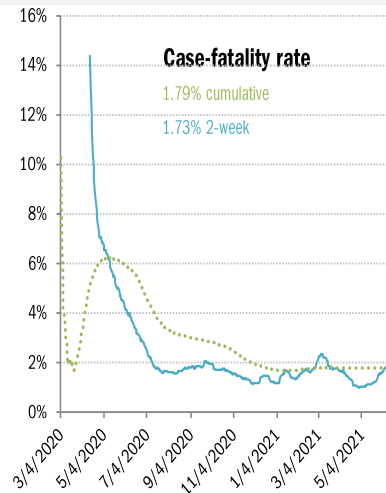
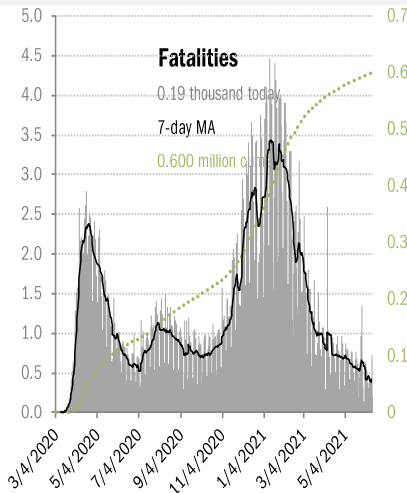
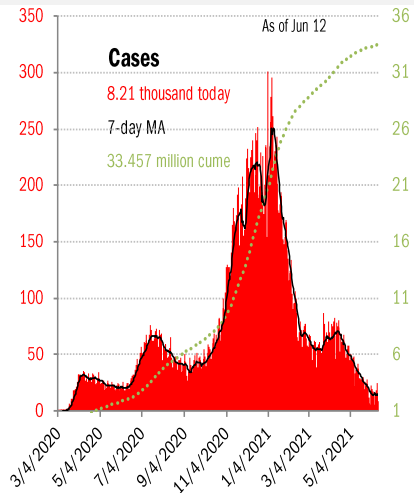
As of Jun 12

* 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

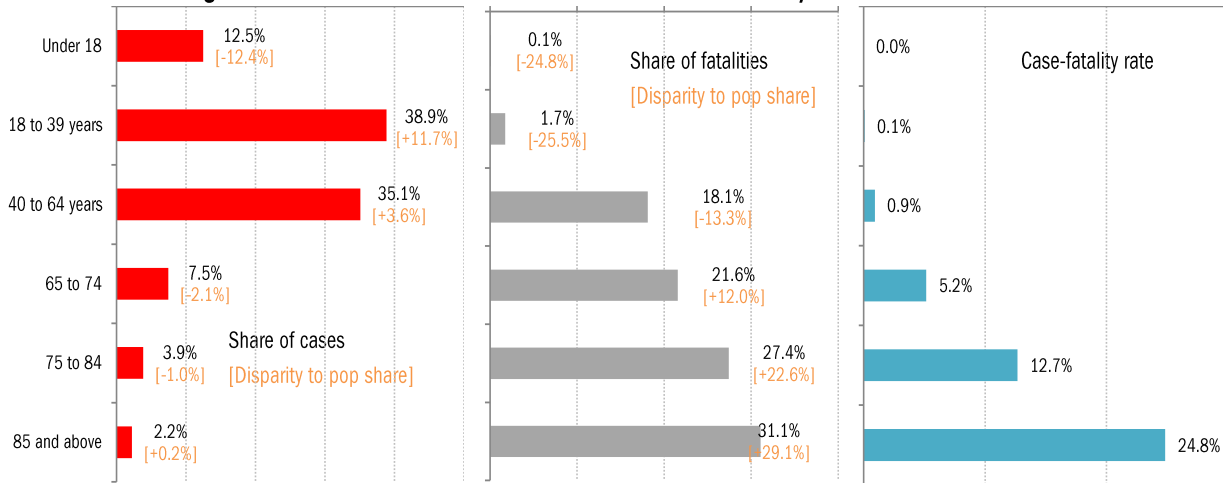
US deep-dive

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

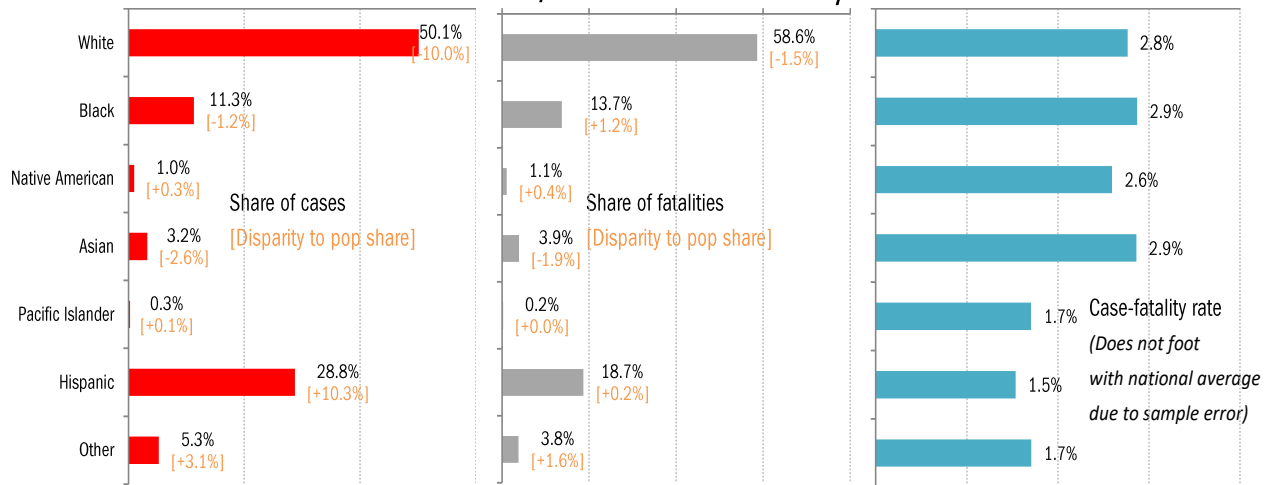


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

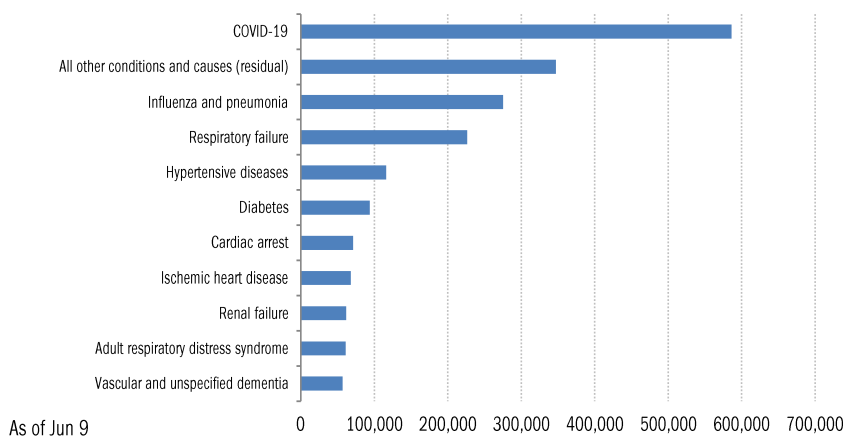


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



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.

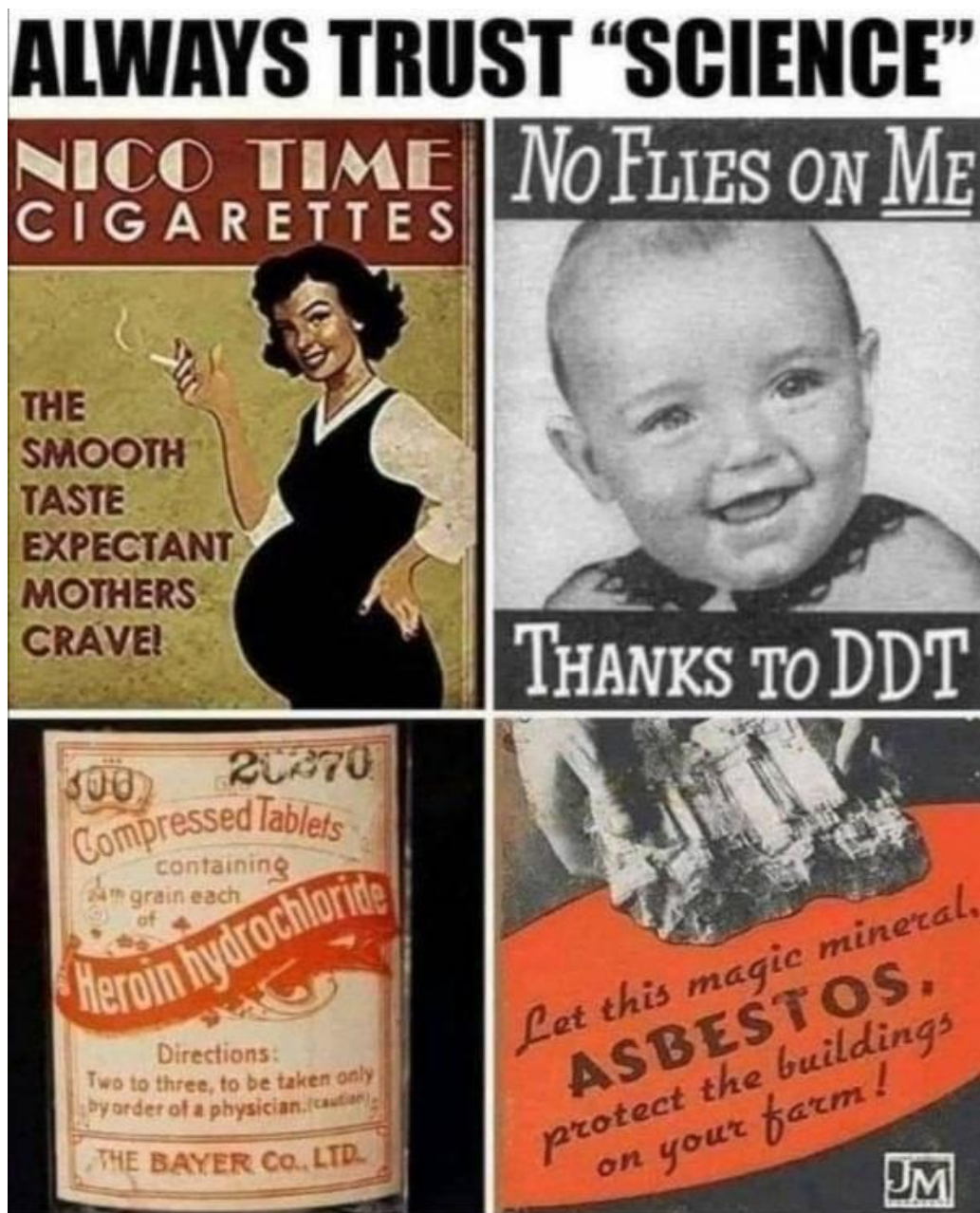
Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

Recommended reading

[Covid-Sniffing Dogs Are Accurate but Face Hurdles for Widespread Use](#)

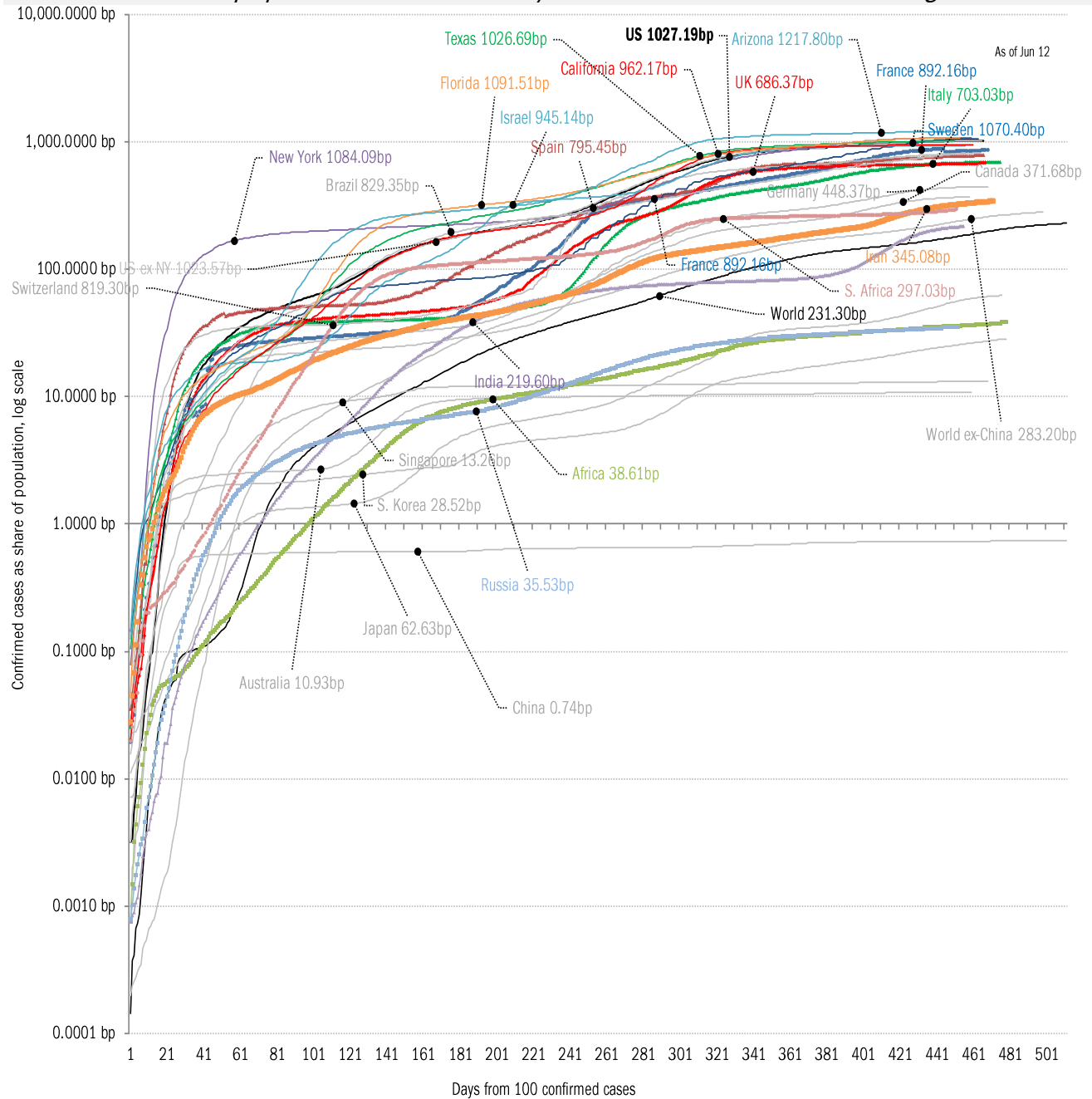
James Gorman
New York Times
June 12, 2021

Meme of the day



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

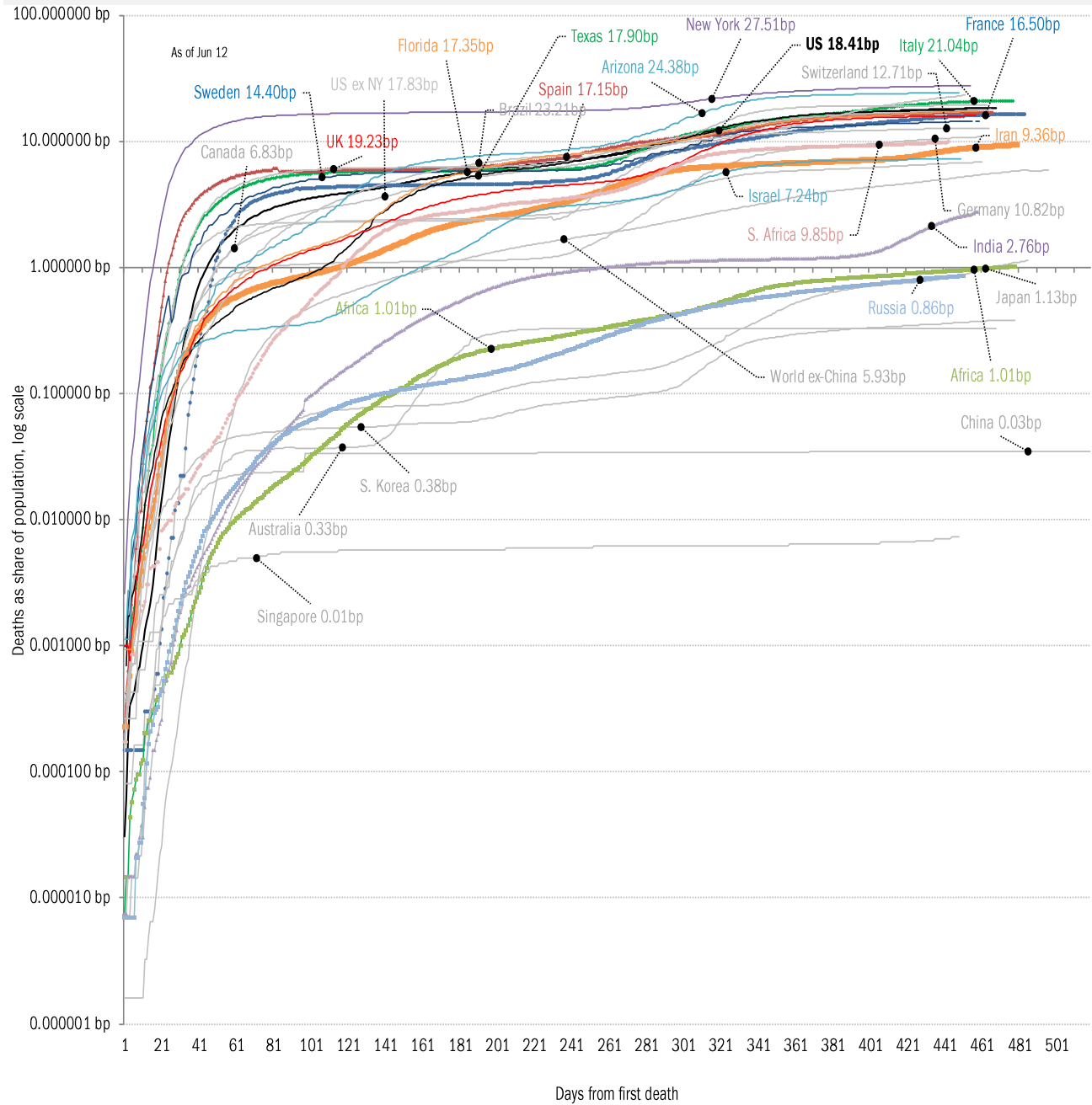
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

The coronavirus mortality accelerometer ... tracking the world's fatality curves

Share of deceased population from day of first fatality

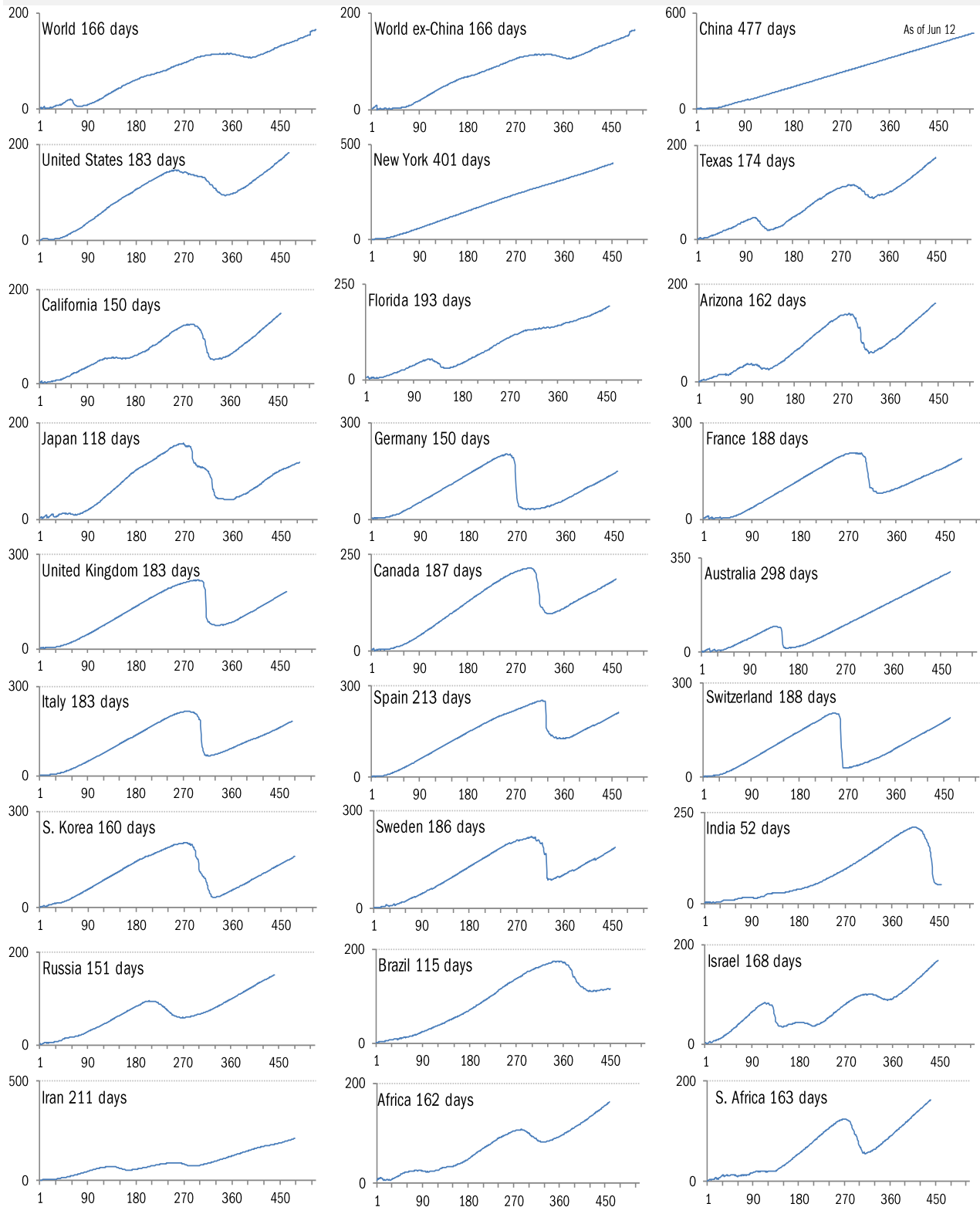


Source: [Johns Hopkins](#), TrendMacro calculations

"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

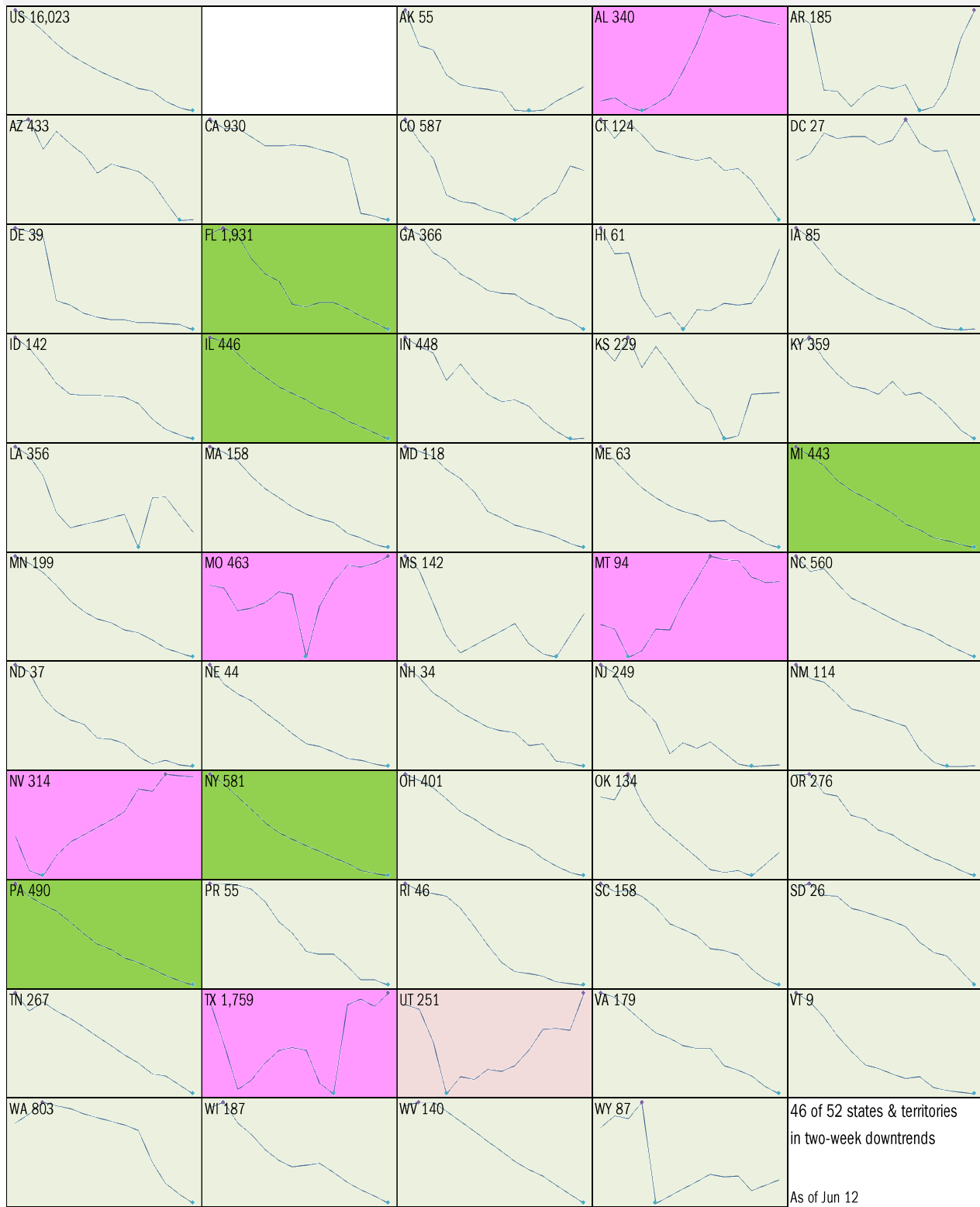


Source: [Johns Hopkins](#), TrendMacro calculations

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

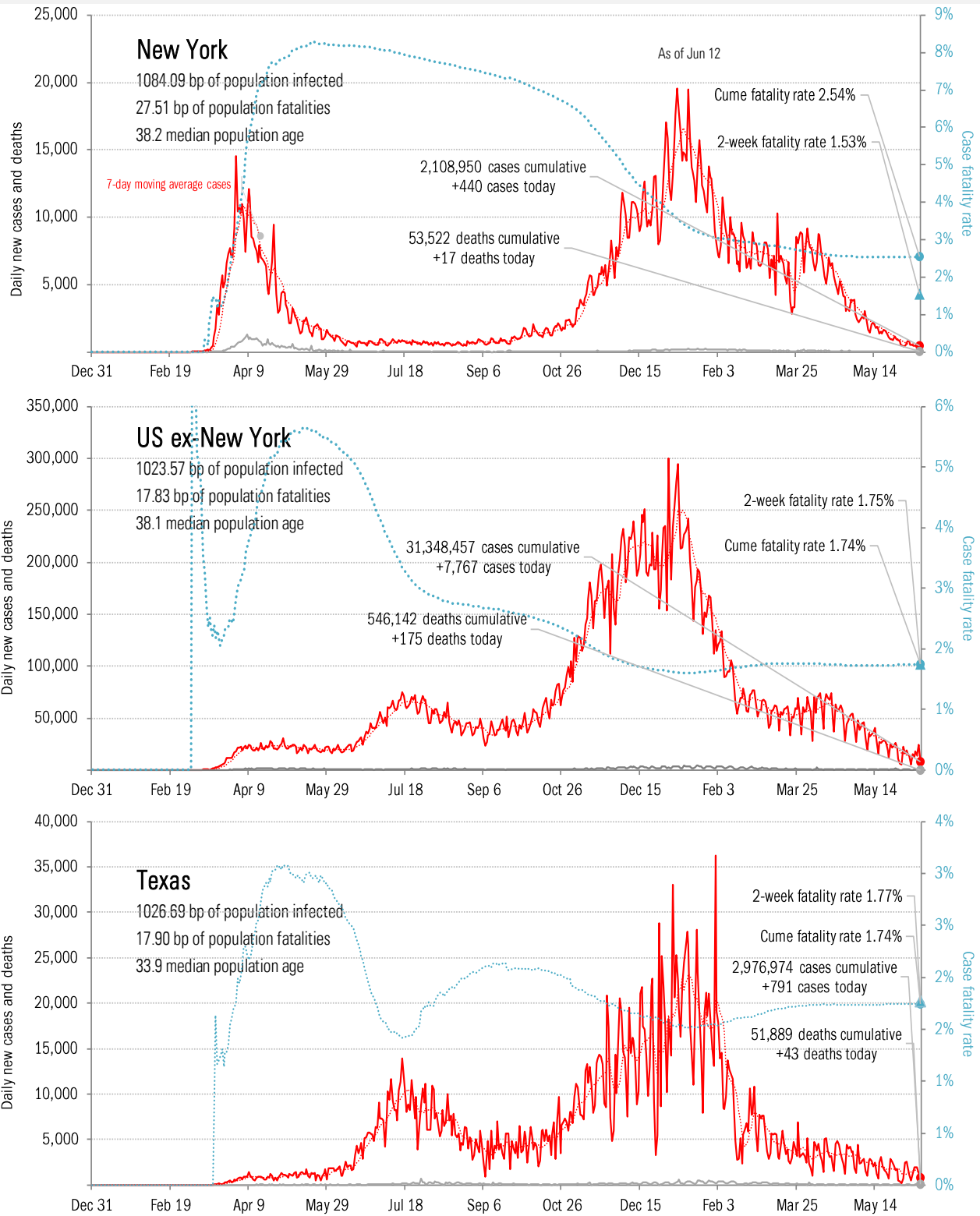
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



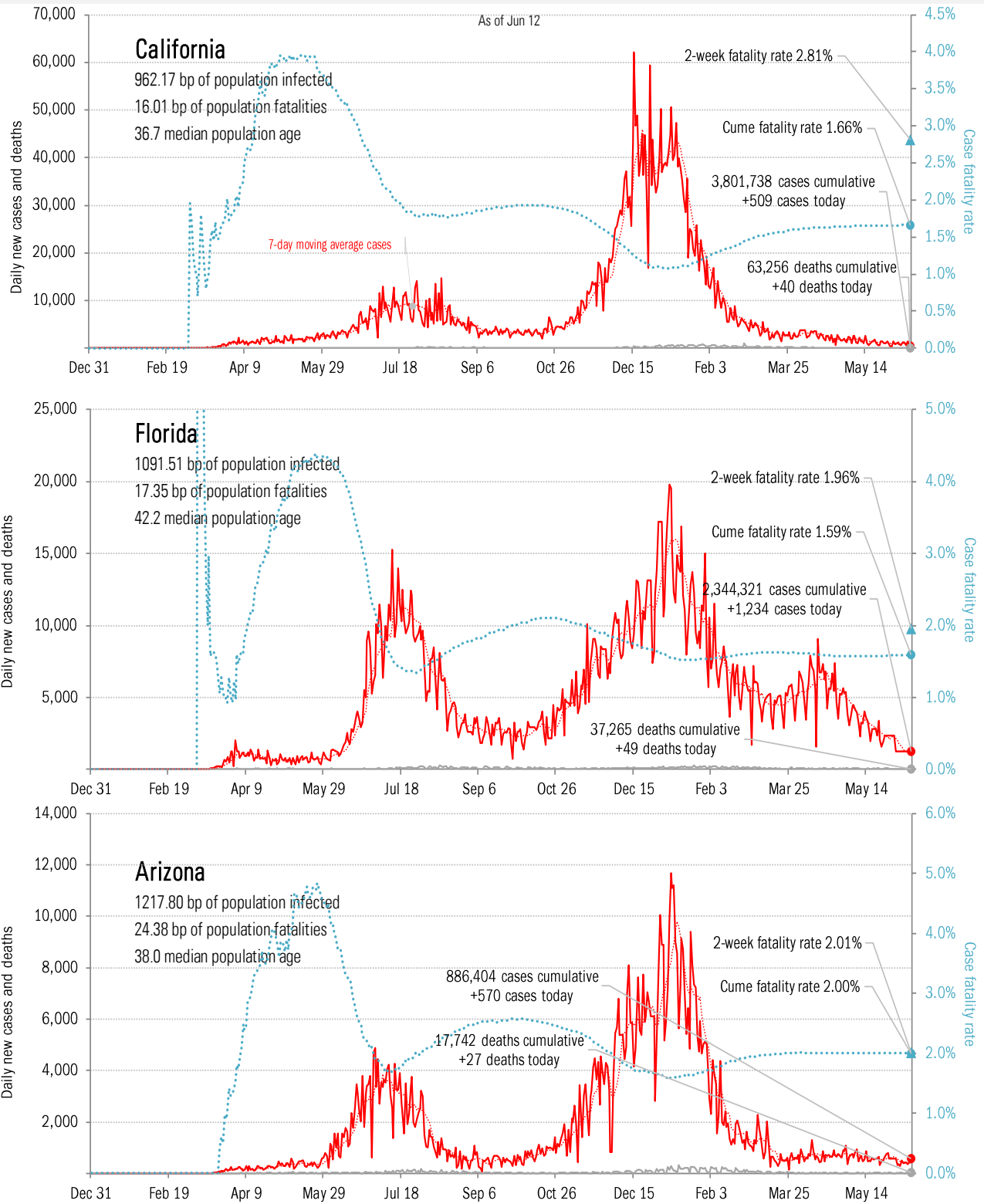
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



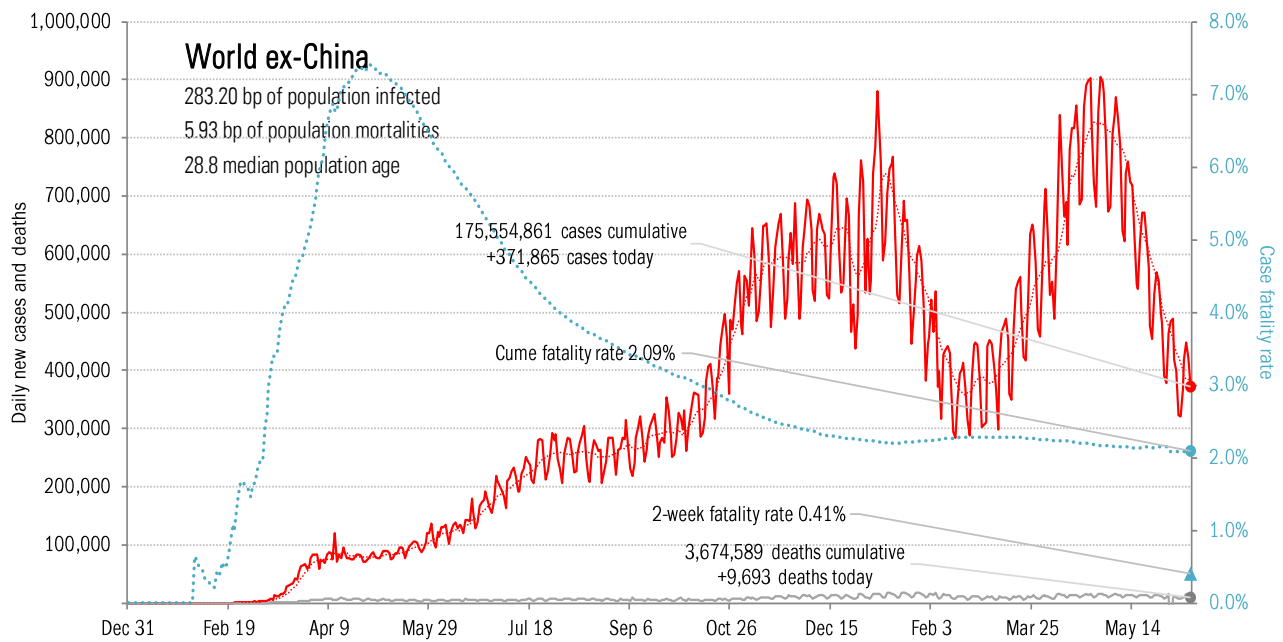
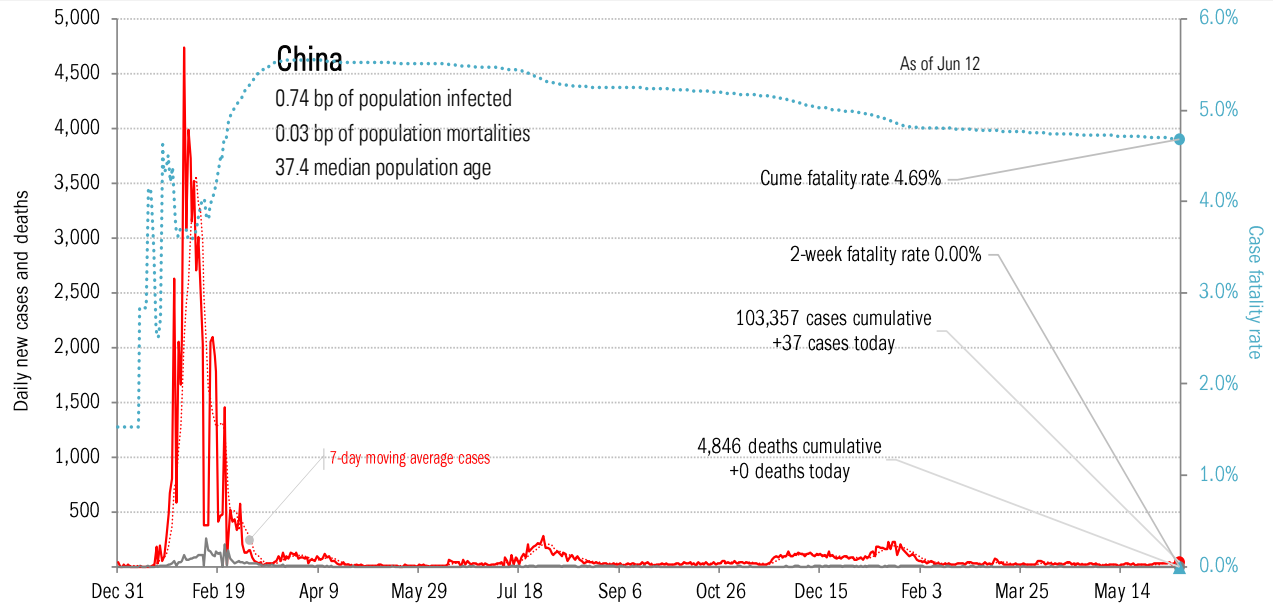
Source: [Johns Hopkins](#), TrendMacro calculations

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



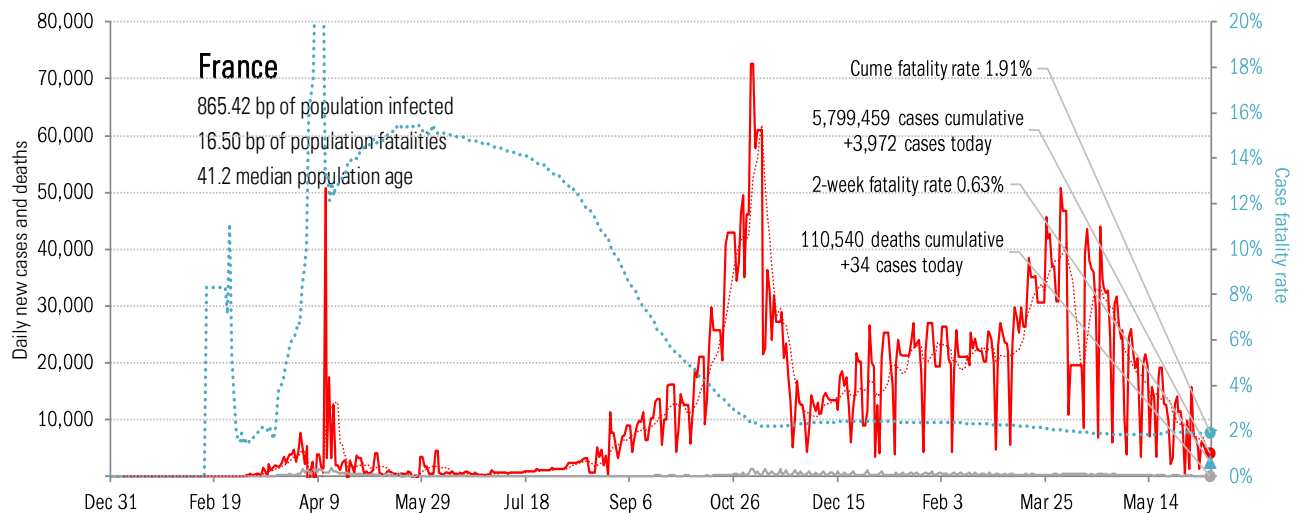
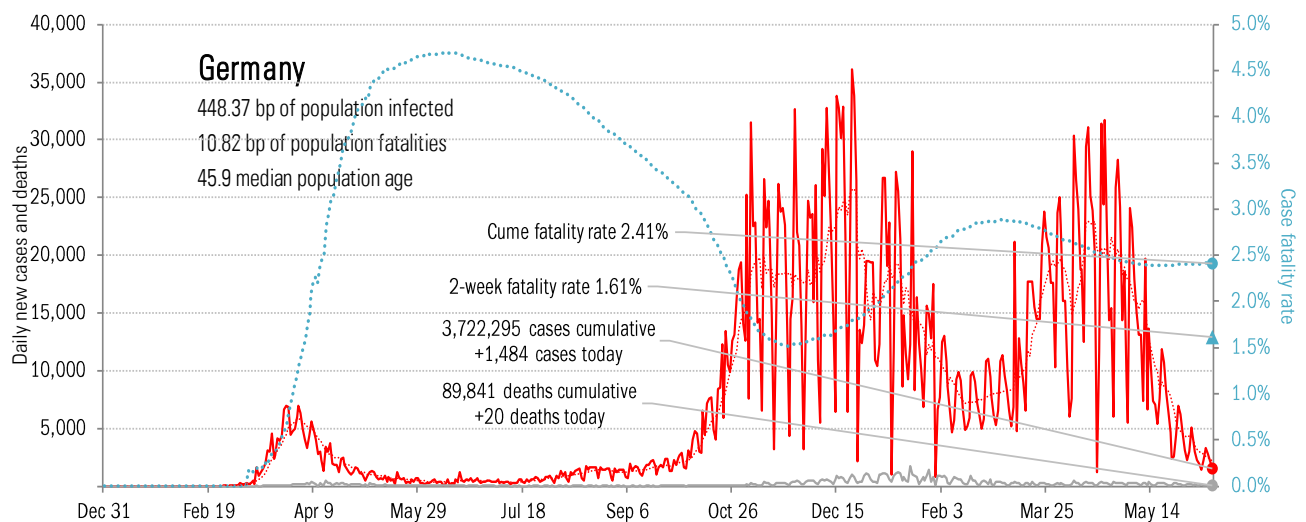
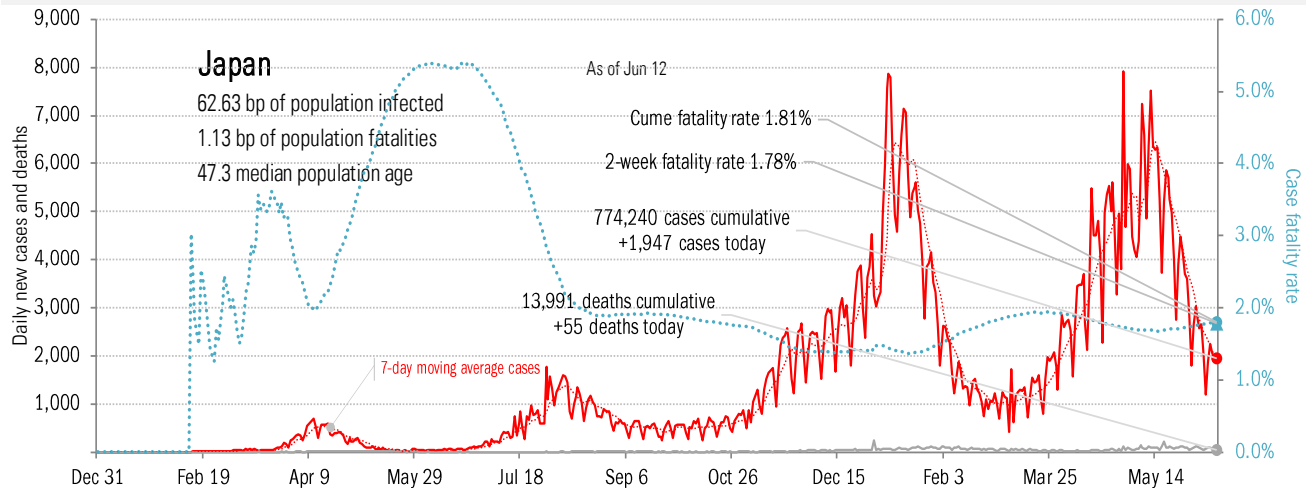
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



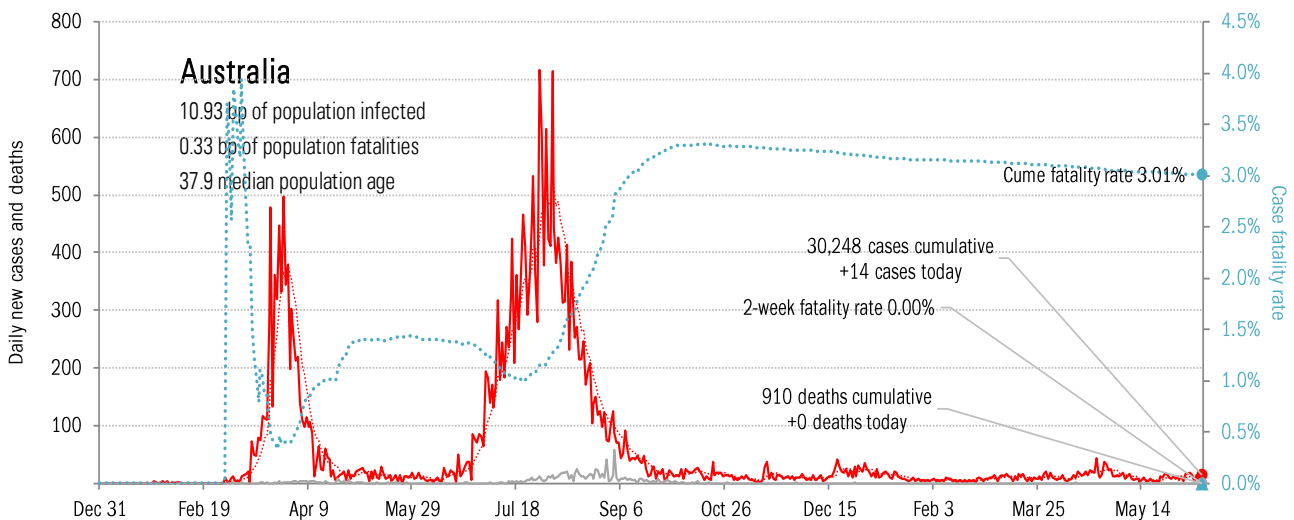
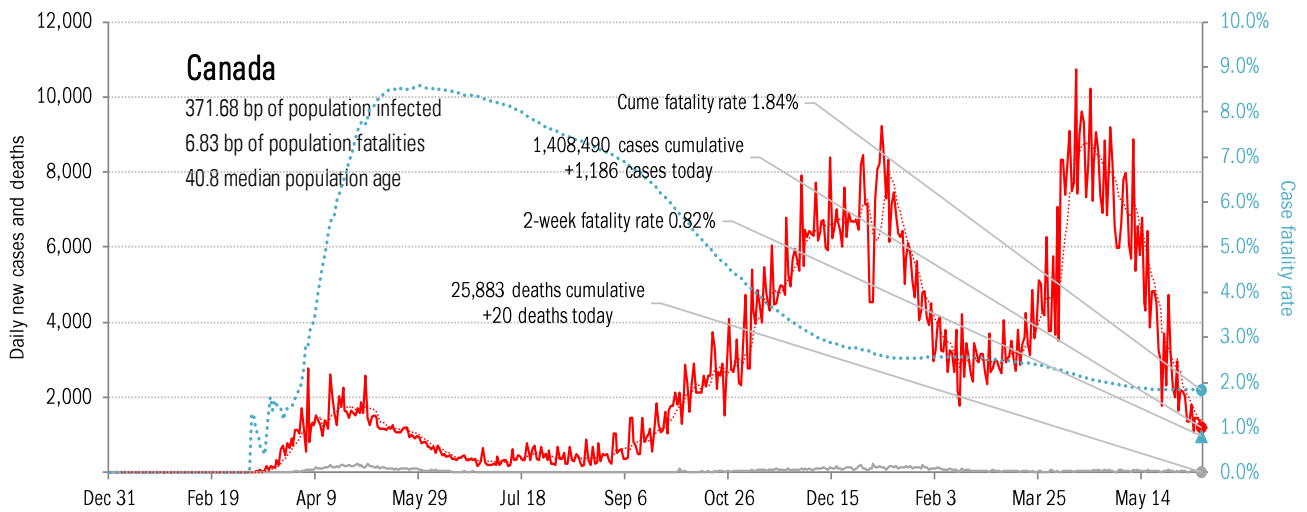
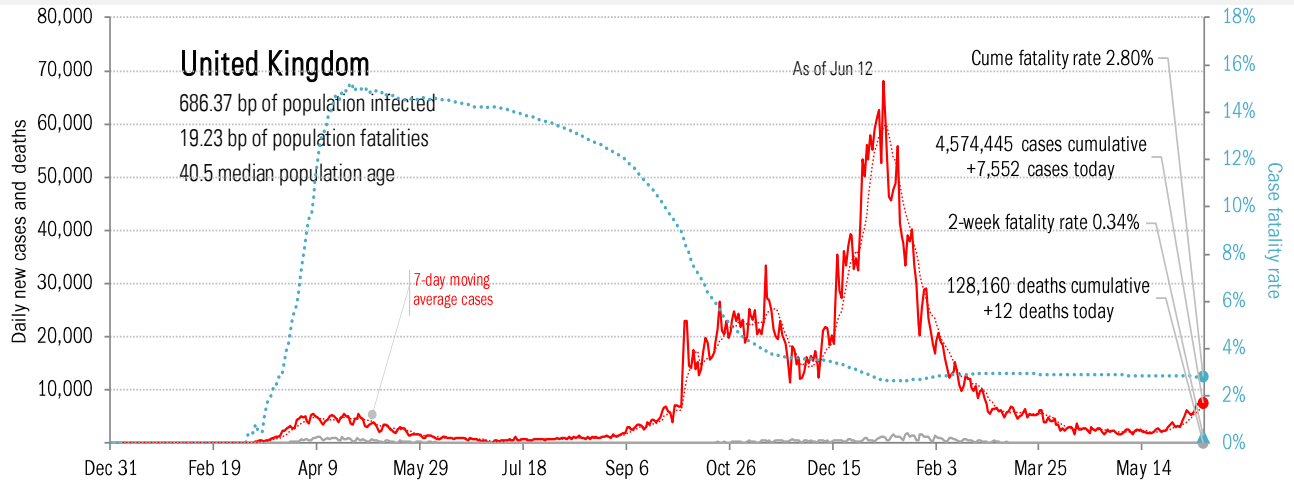
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



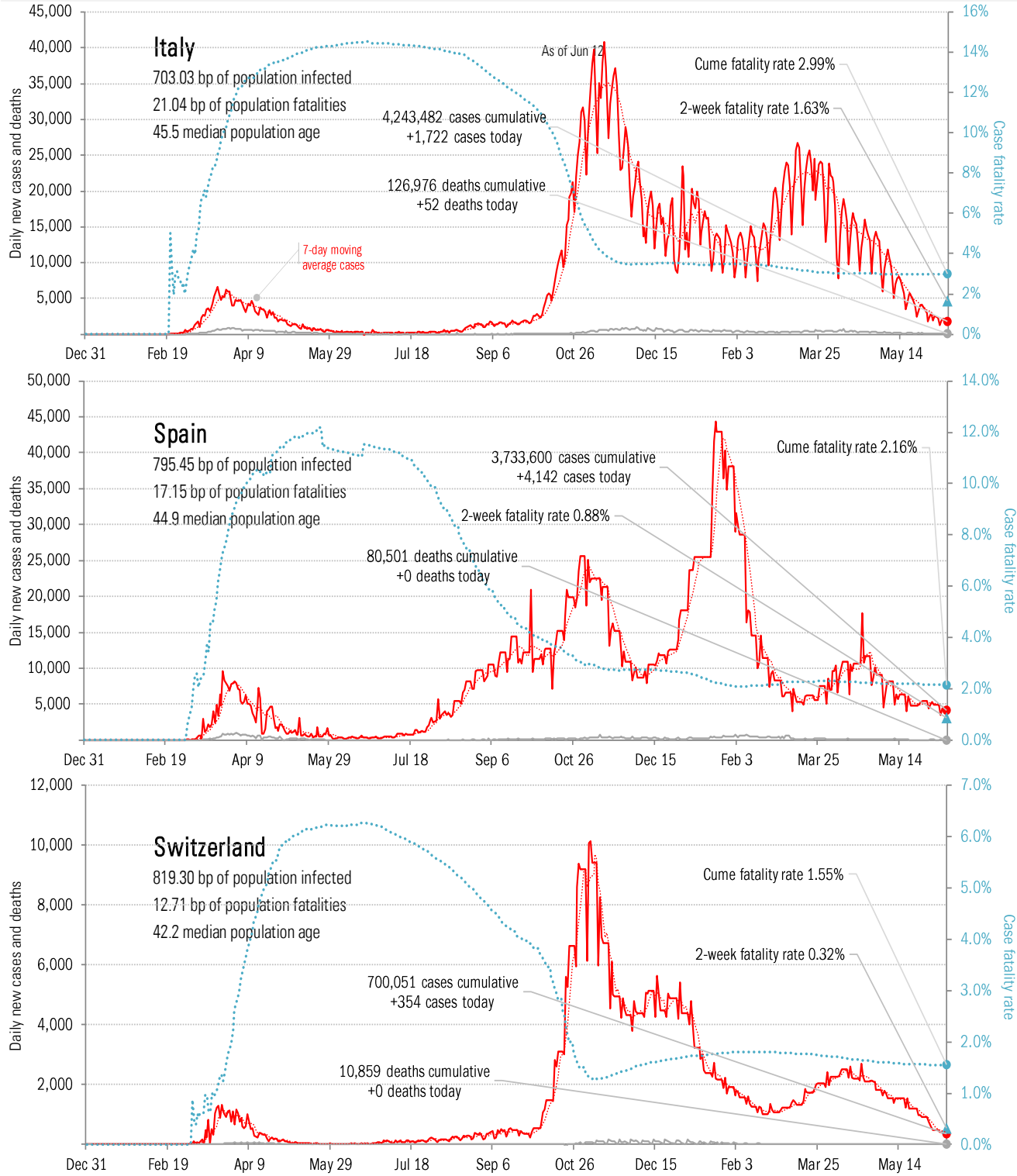
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



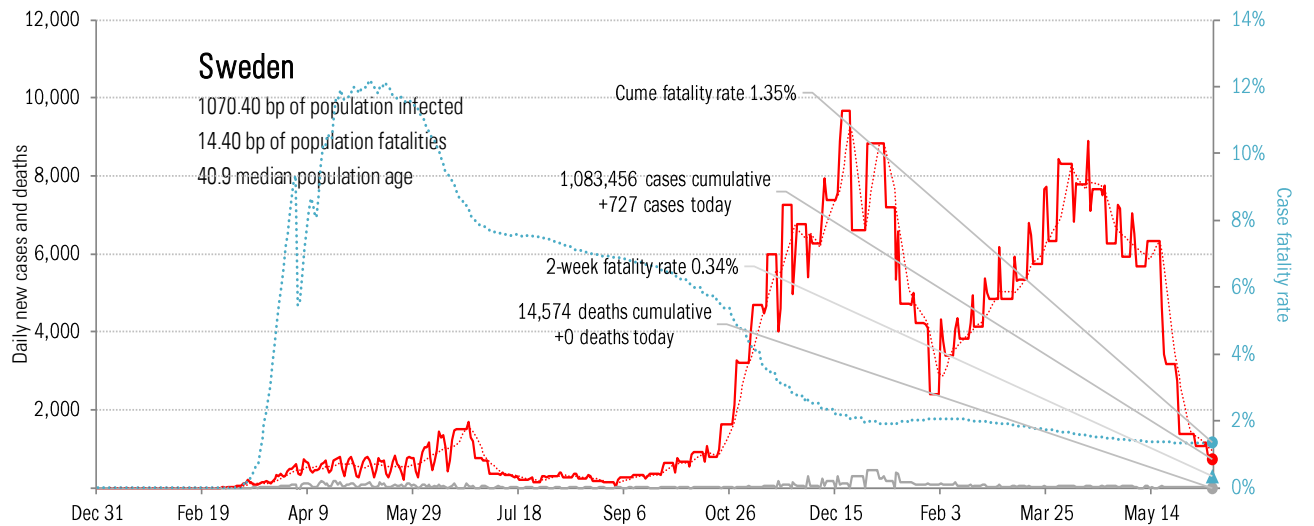
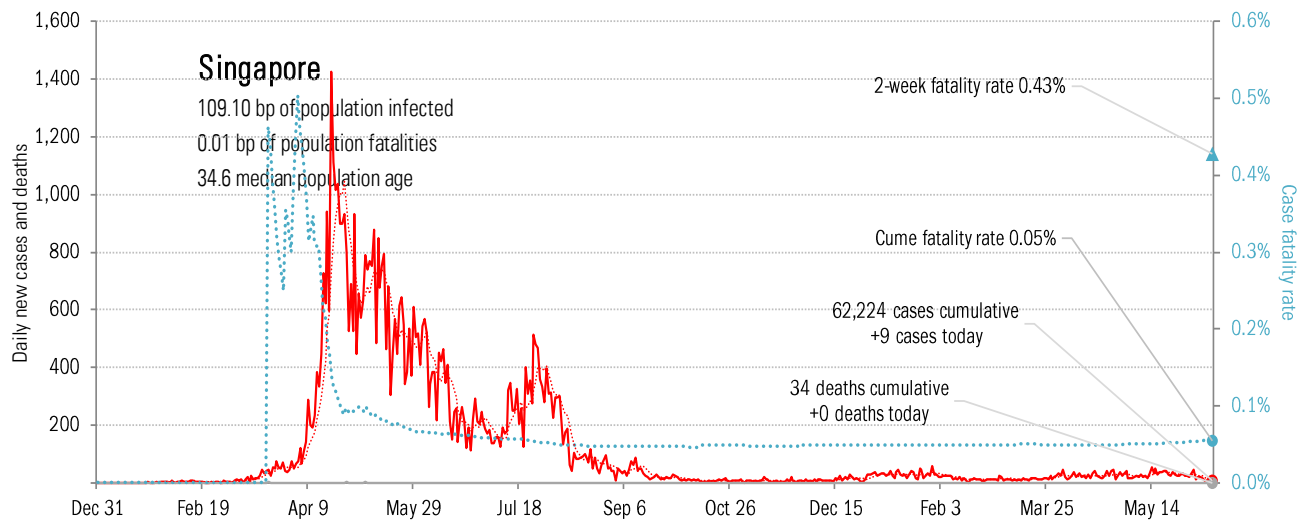
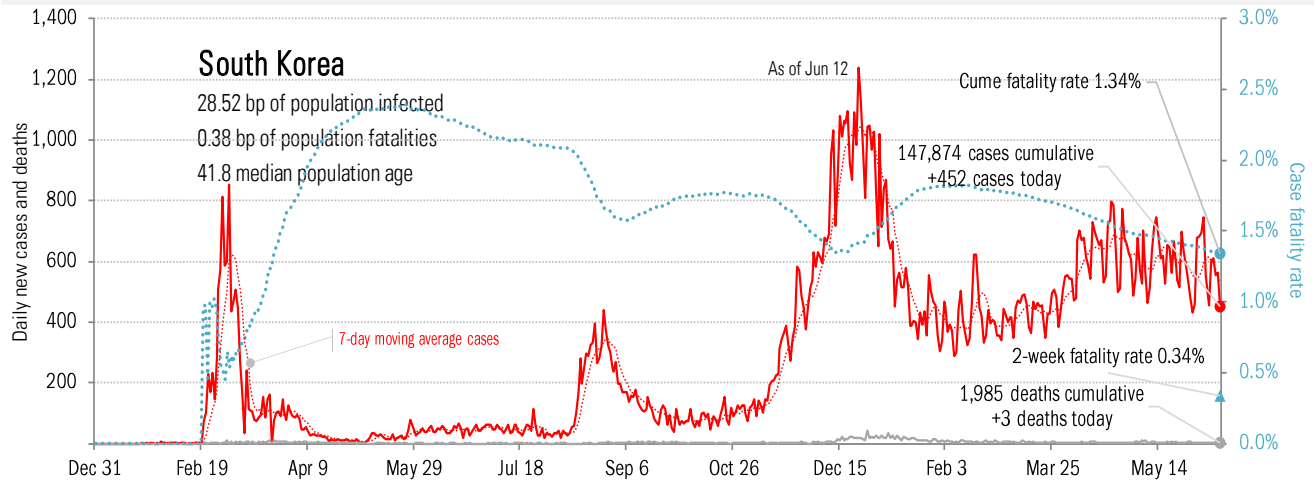
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



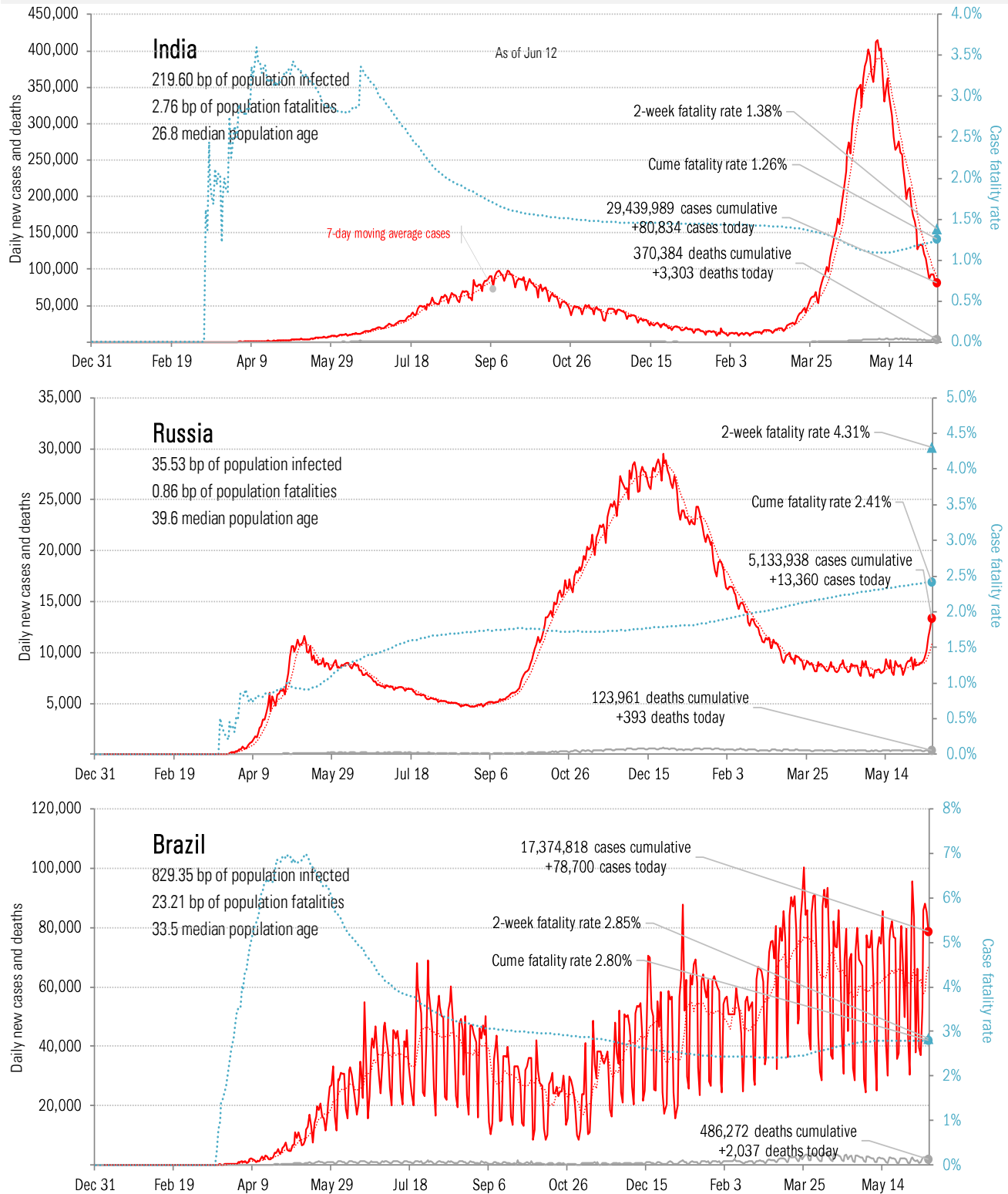
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



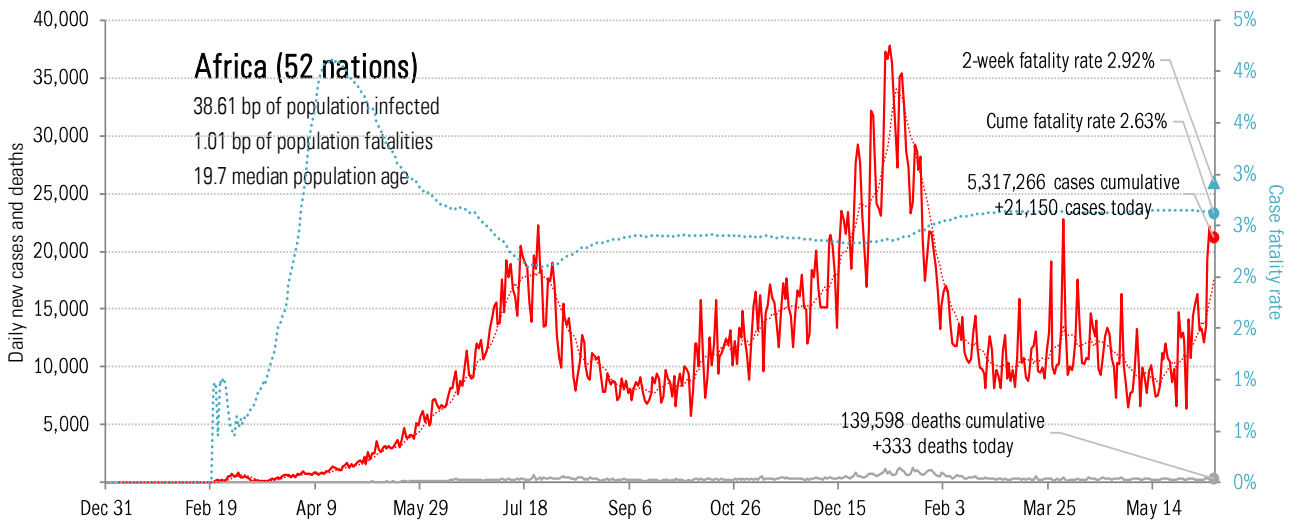
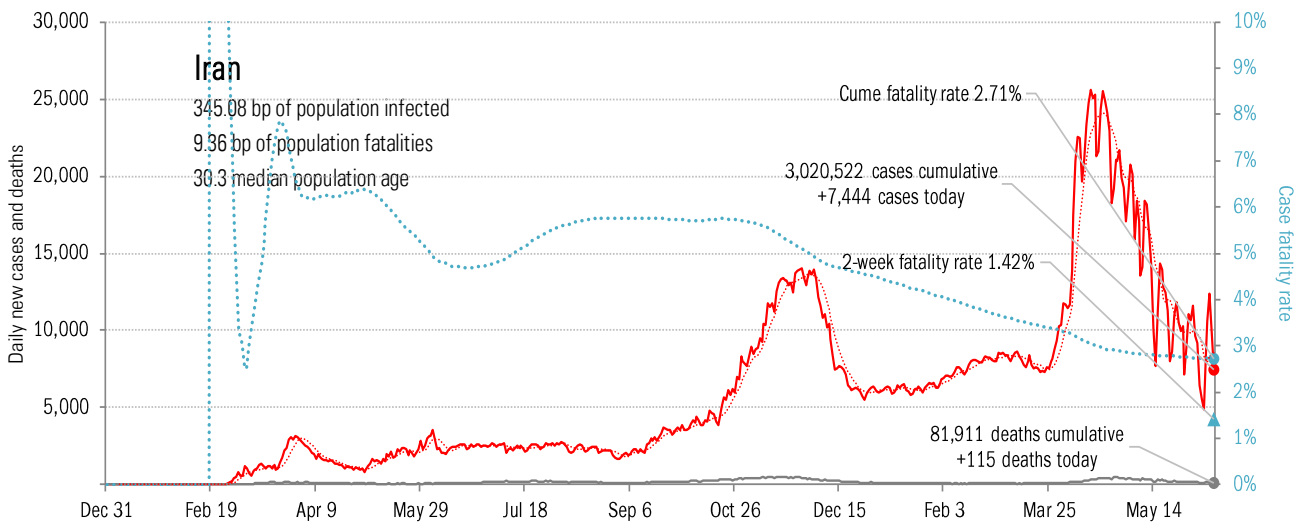
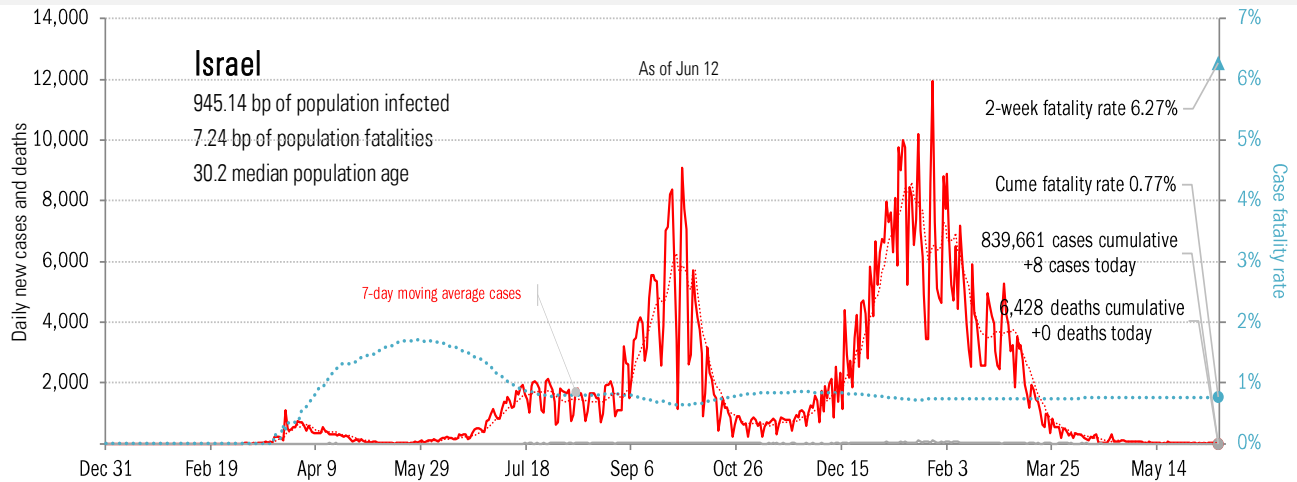
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



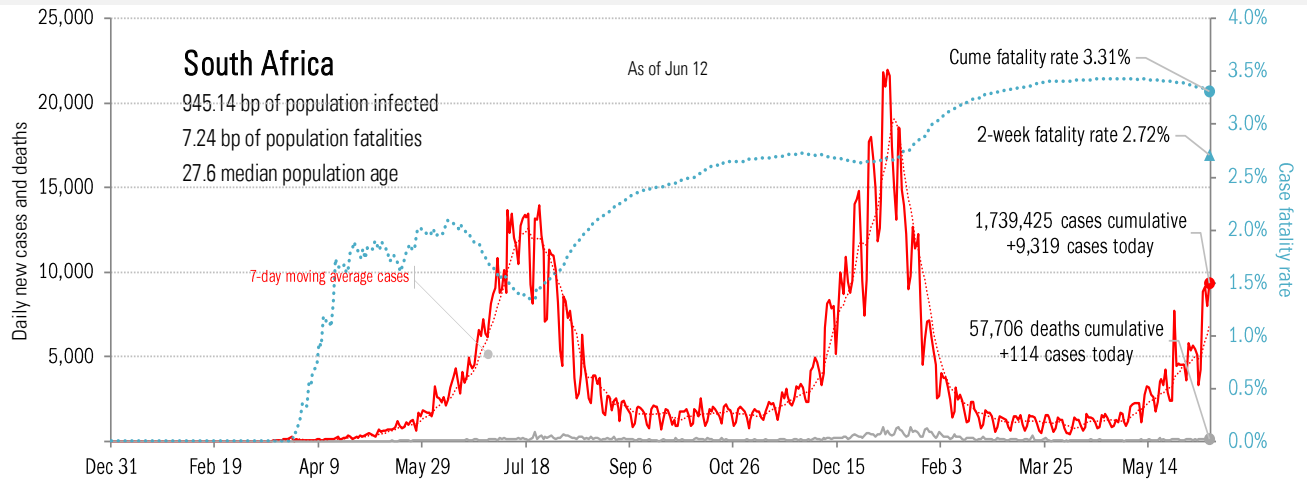
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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