

Data Insights: Covid-2019 Monitor

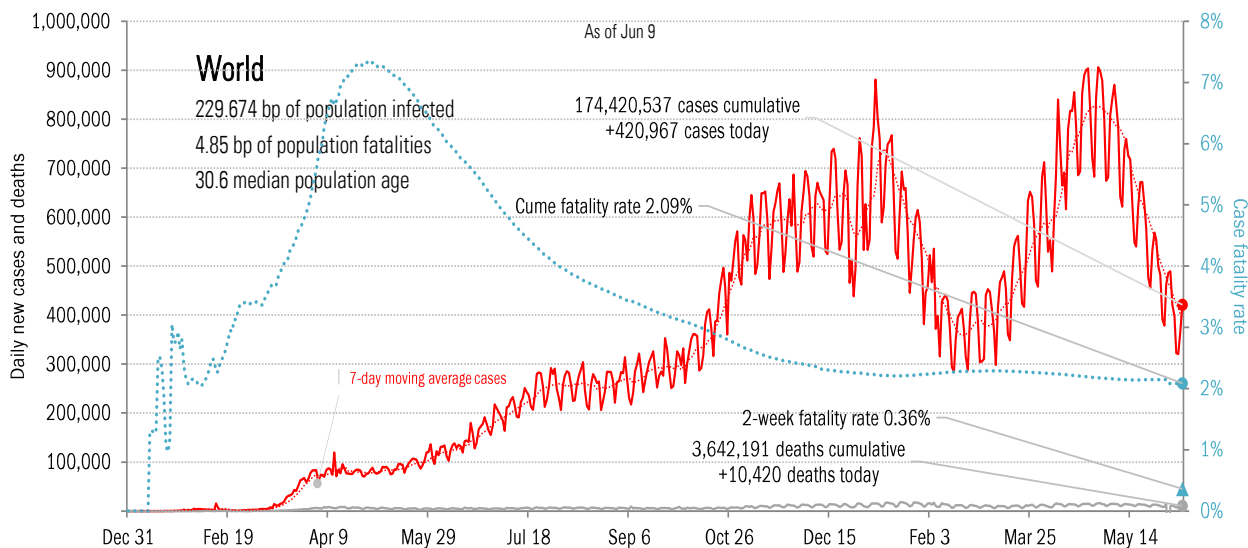
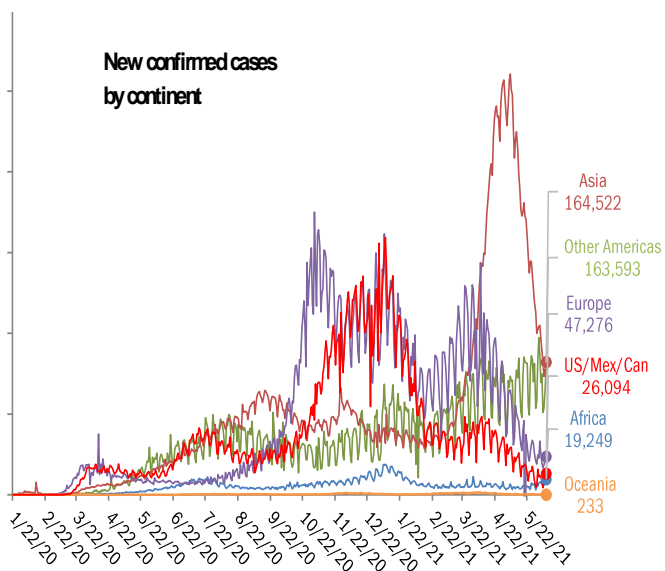
Thursday, June 10, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+93,463	Brazil	+2,723
Brazil	+85,748	India	+2,177
Argentina	+29,757	Argentina	+605
Colombia	+21,879	Colombia	+471
United States	+20,779	United States	+432
Iran	+10,598	Peru	+400
Russia	+10,271	Russia	+393
South Africa	+8,881	Mexico	+253
Indonesia	+7,725	Romania	+228
United Kingdom	+7,322	Indonesia	+170
+296,423		+7,852	
World	+420,967	World	+10,420
Top ten	70%	Top ten	75%

New confirmed cases by continent



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

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The US scorecard

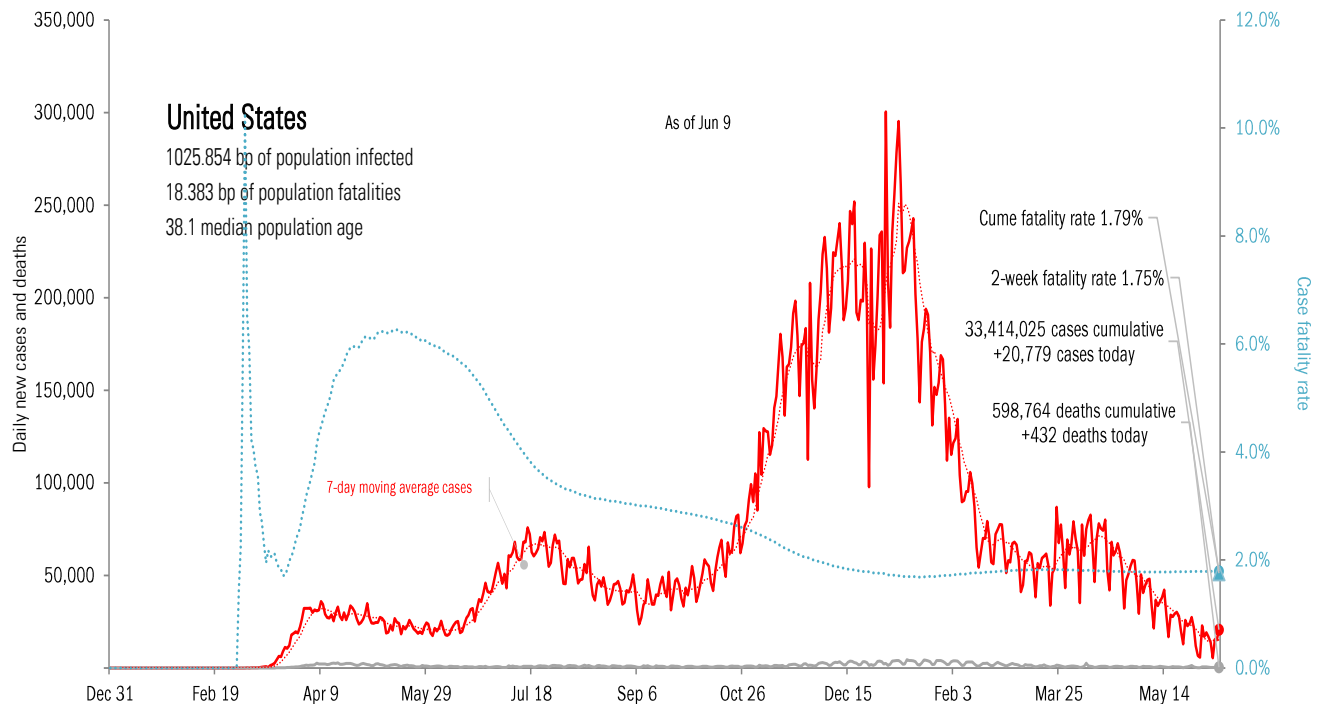
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
TX	+9,071		TX	+37		CA	+38		CA	3,798,631		CA	63,615		TX	249,561		R	92%	WA	13%
LA	+774		NJ	+31		GA	+35		TX	2,977,248		NY	53,492		CA	237,075		MA	83%	CO	13%
CO	+697		AL	+29		TX	+21		FL	2,332,867		TX	51,814		FL	181,592		PA	82%	ID	13%
CA	+694		IL	+27		WA	+20		NY	2,107,289		FL	36,973		NY	134,958		MO	82%	MO	13%
MO	+624		GA	+25		MO	+12		IL	1,386,179		PA	27,417		GA	107,230		MI	80%	MI	11%
NC	+544		WV	+24		MS	+12		PA	1,211,487		NJ	26,316		PA	90,485		MD	80%	ME	10%
WA	+507		PA	+22		WI	+7		GA	1,127,200		IL	25,413		CH	86,374		MIN	79%	MS	10%
NY	+437		NC	+18		CT	+5		CH	1,105,720		GA	21,049		IL	81,317		WV	78%	OR	10%
AZ	+433		OR	+16		ND	+5		NJ	1,018,491		MI	20,667		KY	75,938		CT	78%	WV	10%
GA	+411		MO	+15		NV	+5		NC	1,006,809		CH	20,021		MI	72,198		DC	77%	UT	9%
+14,192			+244			+160			18,071,921			346,777			1,316,728						
All states	+20,779			+432			-146		All states	33,414,025			598,764			2,344,450		All states	70%		67%
Top ten	68%			56%			-110%		Top ten	54%			58%			56%		Median	72%		7%

Some states not reporting

Five most improved US states

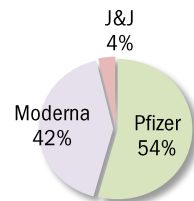
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-467	MI	-49	FL	-70	FR	+35 bp
KY	-272	CH	-41	CH	-30	MA	+31 bp
WA	-195	MO	-18	AL	-23	OR	+29 bp
NV	-130	CA	-15	VA	-22	NY	+28 bp
MO	-100	GA	-13	CO	-17	ME	+26 bp



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	385,034,145				+0.396 million	US	42.2%	51.5%
Doses administered	314,001,206				+0.852 million	UK	42.0%	60.0%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	19.1%	41.9%
Total population	176,589,967	53%	144,958,248	43%	+0.550 million	Spain	24.7%	43.4%
Age 12 to 17	7,128,135	28%	3,455,427	14%	+0.182 million	Germany	23.7%	46.7%
Age 18 to 64	120,451,926	59%	98,554,893	48%	+0.312 million	Italy	22.3%	45.4%
Age 65 and over	48,886,416	89%	42,912,018	78%	+0.051 million	Australia	2.6%	18.4%



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

AK
60.0%
46.9%
40.2%



At today's dosing pace, every American >18 immune in **194 days** by Dec 19, 2021
 67.6% of population >18 immunized
 14.1% previously tested positive
81.7% vs 60% adult herd immunity*

Global data differs from sources, timing

China NA	ME
	71.0%
	64.5%
	56.8%
VT	NH
76.8%	69.3%
71.7%	60.8%
59.5%	52.3%

WA 62.9% 58.1% 49.0%	ID 48.5% 38.2% 33.6%	MT 54.4% 46.3% 40.0%	ND 48.4% 42.7% 37.1%	MN 59.9% 55.3% 47.6%	IL 60.1% 56.4% 41.5%	MI 60.2% 49.7% 43.6%	NY 62.8% 57.2% 48.9%	MA 72.3% 68.0% 56.8%		
OR 68.7% 56.2% 48.0%	NV 51.0% 46.6% 38.1%	WY 46.9% 37.8% 32.6%	SD 56.8% 48.8% 43.1%	IA 56.5% 50.0% 45.1%	IN 51.7% 42.6% 36.7%	OH 54.7% 46.8% 41.5%	PA 63.9% 59.9% 45.7%	NJ 66.4% 61.8% 50.8%	CT 68.3% 64.5% 55.7%	RI 73.1% 62.2% 53.8%
CA 64.1% 58.3% 45.3%	UT 52.0% 46.0% 33.6%	CO 62.5% 55.5% 47.1%	NE 55.6% 49.3% 43.6%	MO 51.3% 43.0% 35.4%	KY 51.9% 47.3% 39.5%	WV 55.0% 41.4% 34.7%	VA 62.1% 56.5% 46.9%	MD 71.6% 58.7% 50.2%	DE 67.6% 55.9% 44.9%	
	AZ 57.3% 47.3% 37.2%	NM 58.4% 58.7% 49.0%	KS 54.7% 47.5% 39.3%	AR 49.2% 40.3% 32.0%	TN 47.9% 39.8% 32.5%	NC 57.7% 44.0% 37.0%	SC 53.2% 41.7% 35.2%	DC 78.2% 58.1% 47.8%		
			OK 52.9% 42.1% 34.4%	LA 45.1% 36.5% 32.1%	MS 46.7% 34.8% 27.9%	AL 50.2% 36.2% 29.5%	GA 54.1% 41.3% 33.8%			
HI 69.9% 67.8% 48.7%			TX 56.7% 45.4% 37.0%					FL 60.1% 50.6% 40.7%	PR 63.9% 52.9% 39.4%	

As of Jun 9

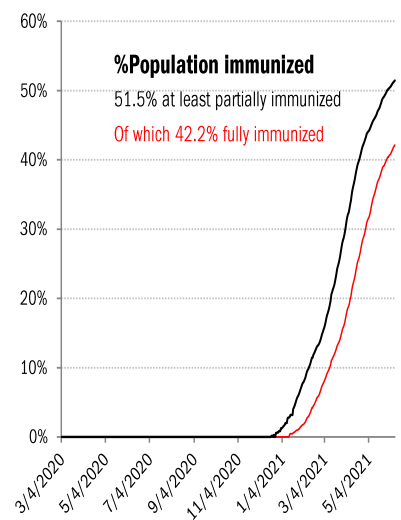
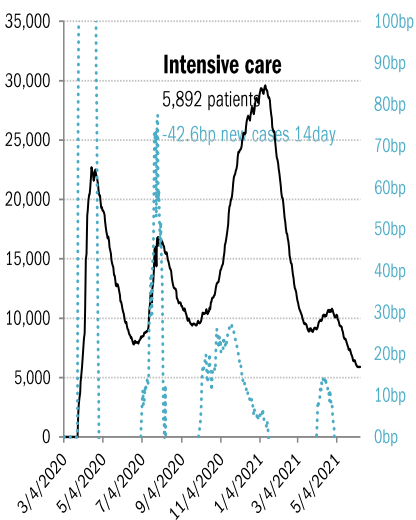
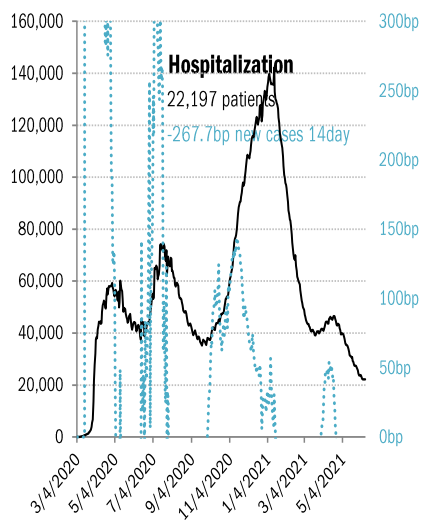
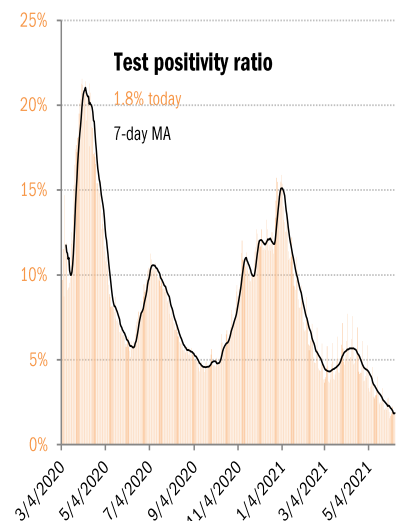
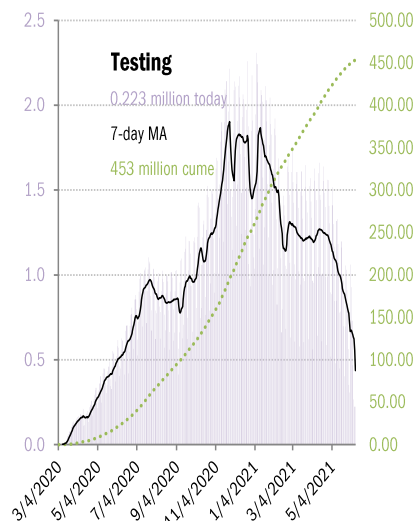
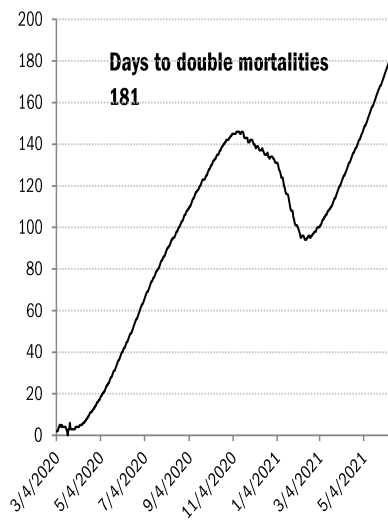
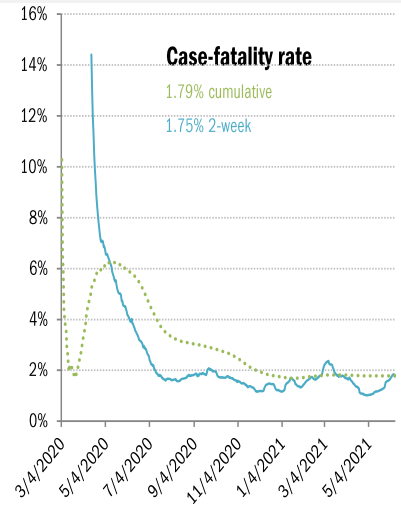
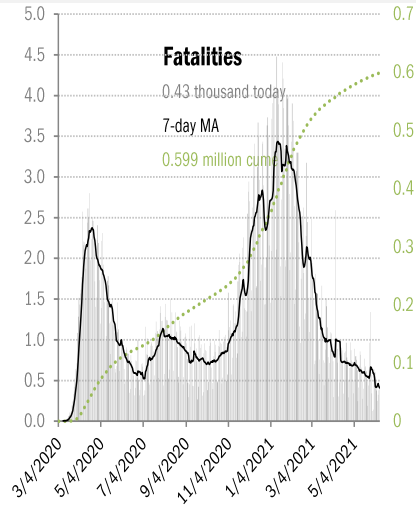
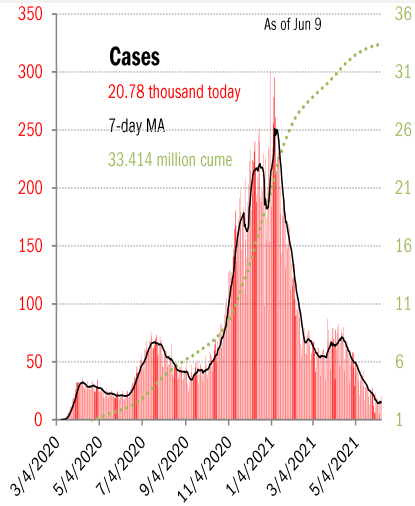
* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.

** 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

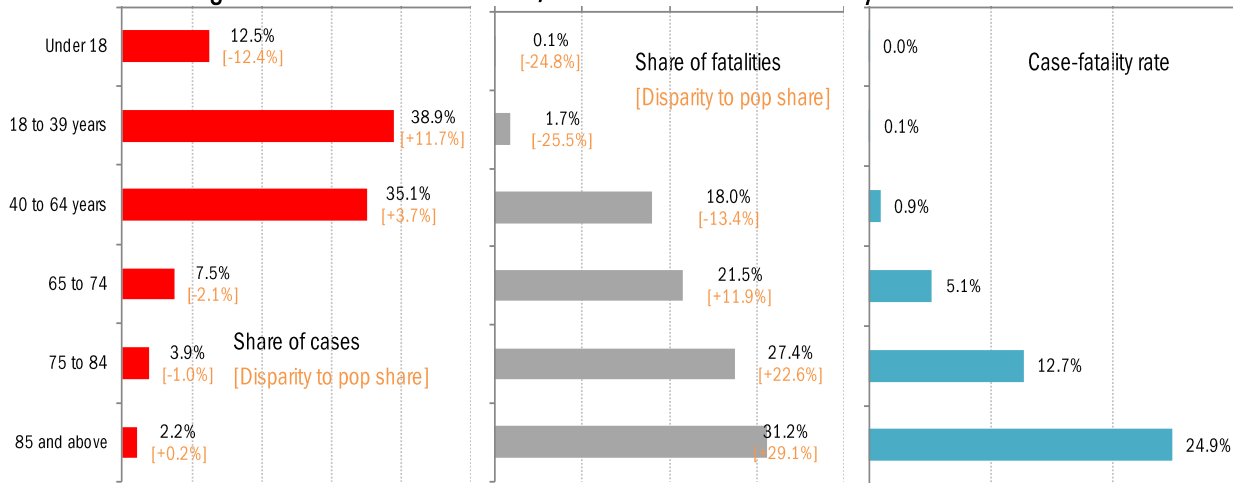
US deep-dive

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

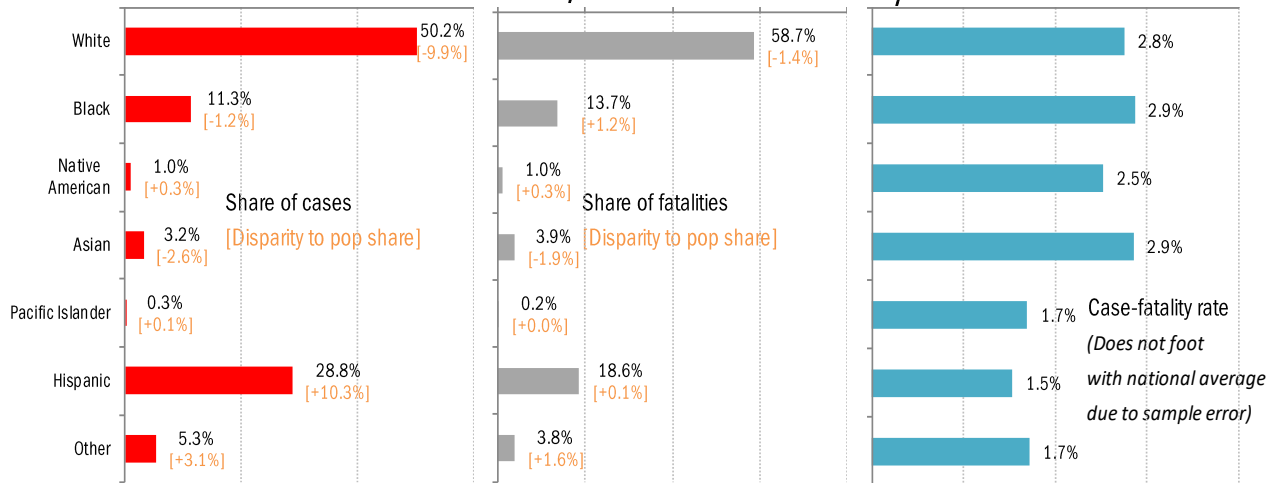


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

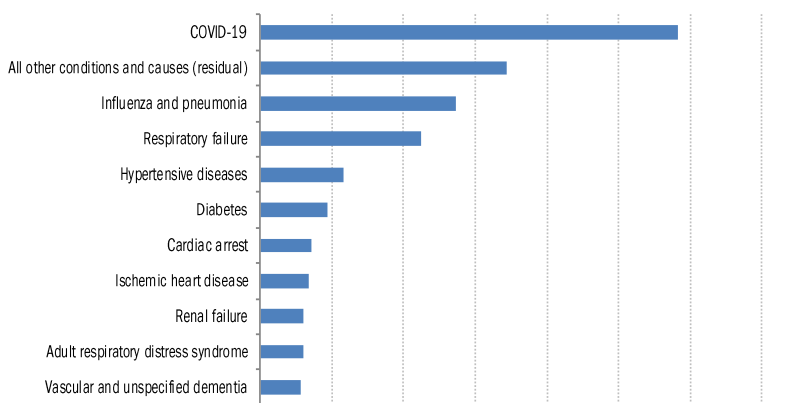


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of May 30

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

[Necessity of COVID-19 vaccination in previously infected individuals](#)

Nabin K. Shrestha et al.
medRxiv
June 5, 2021

[Cleveland Clinic Statement on Previous COVID-19 Infection Research](#)

Cleveland Clinic
June 9, 2021

[Johnson & Johnson vaccine effective against variants: study](#)

Justine Coleman
The Hill
June 9, 2021

[Immunogenicity of Ad26.COVS vaccine against SARS-CoV-2 variants in humans](#)

Galit Alter et al.
Nature
June 9, 2021

[One Fate, Two Fates. Red States, Blue States: New Data Reveal a 432-Hour In-Person Learning Gap Produced by the Politics of Pandemic Schooling](#)

Asher Lehrer-Small
T74
June 9, 2021

[Education Through the Pandemic: From Tennessee's Push to Woo New Teachers Through Higher Salaries to Indiana's Decline in HS Grads Seeking Out More Education, 11 Ways States Are Confronting COVID Slide](#)

Joshua Parrish
T74
June 8, 2021

[The Power of Natural Immunity](#)

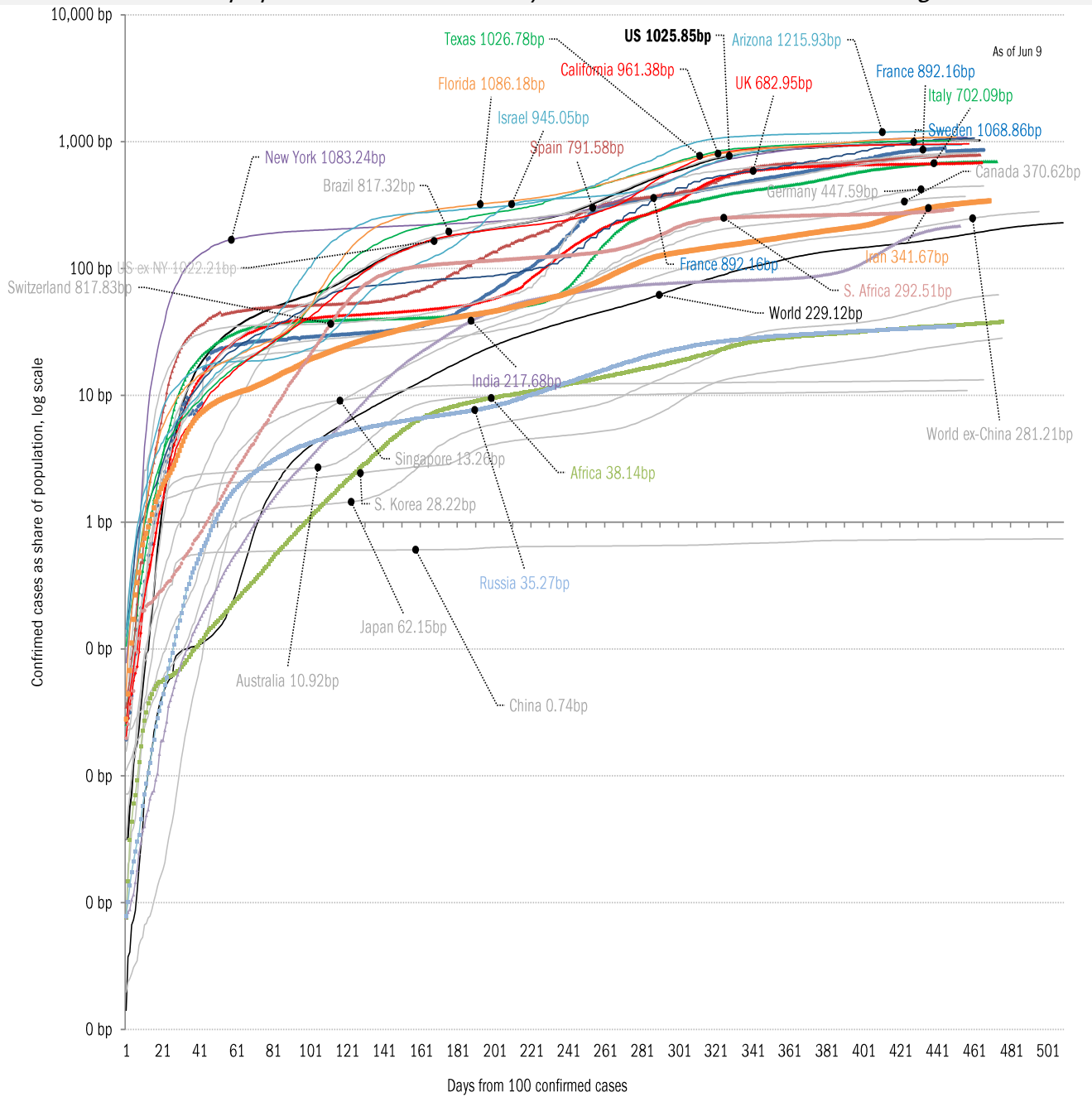
Marty Makary
Wall Street Journal
June 8, 2021

Meme of the day



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

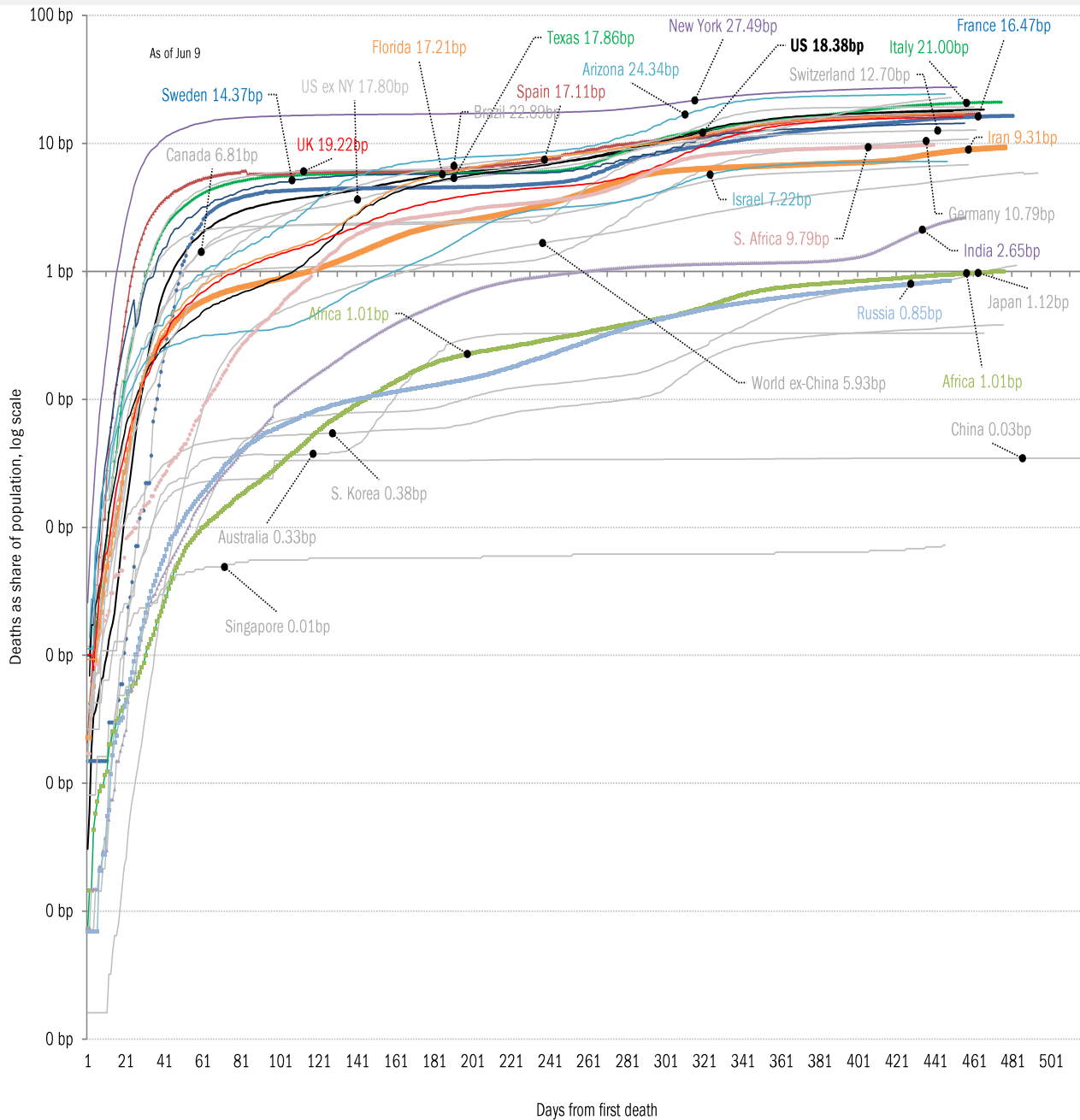
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

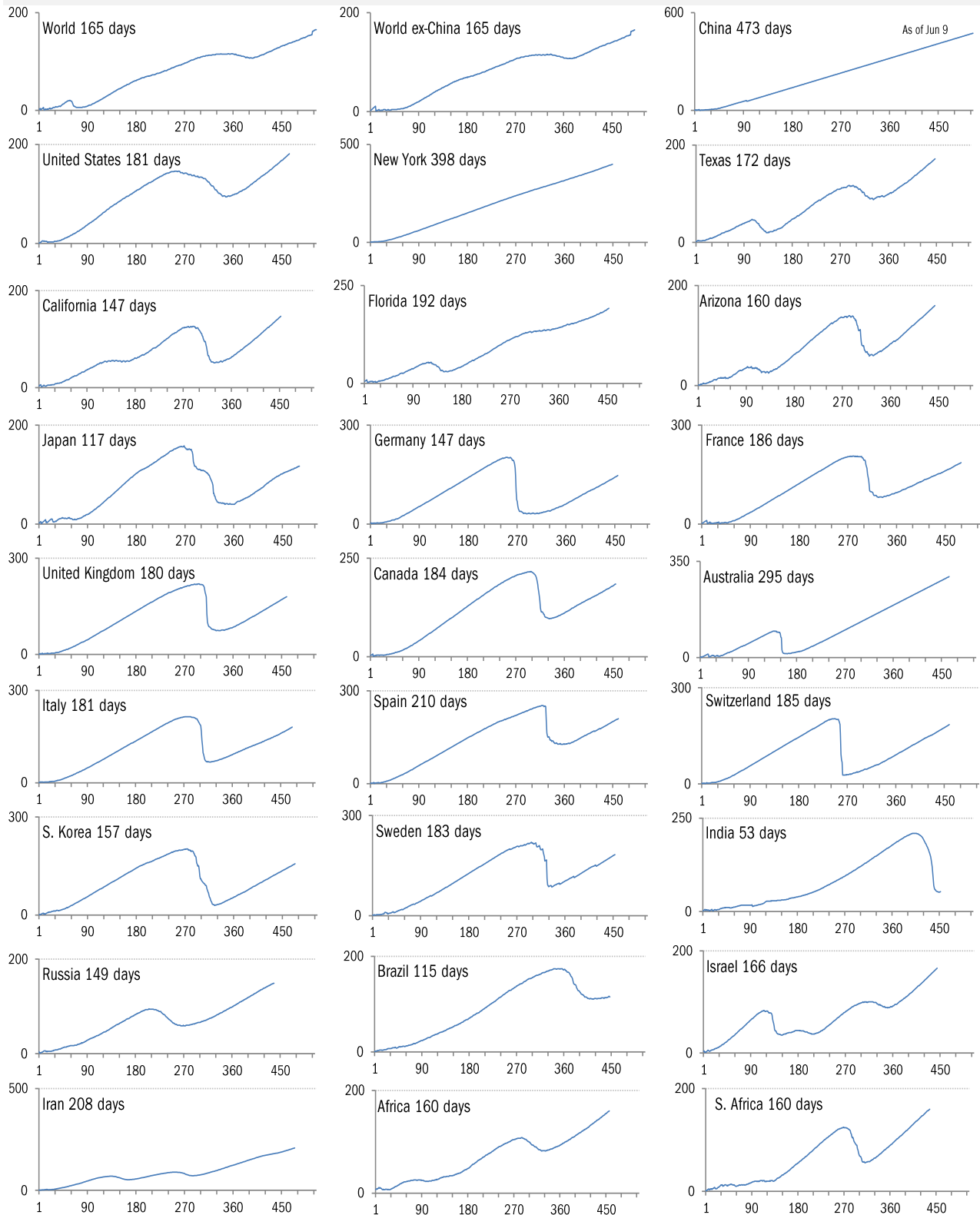


Source: [Johns Hopkins](#), TrendMacro calculations

"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

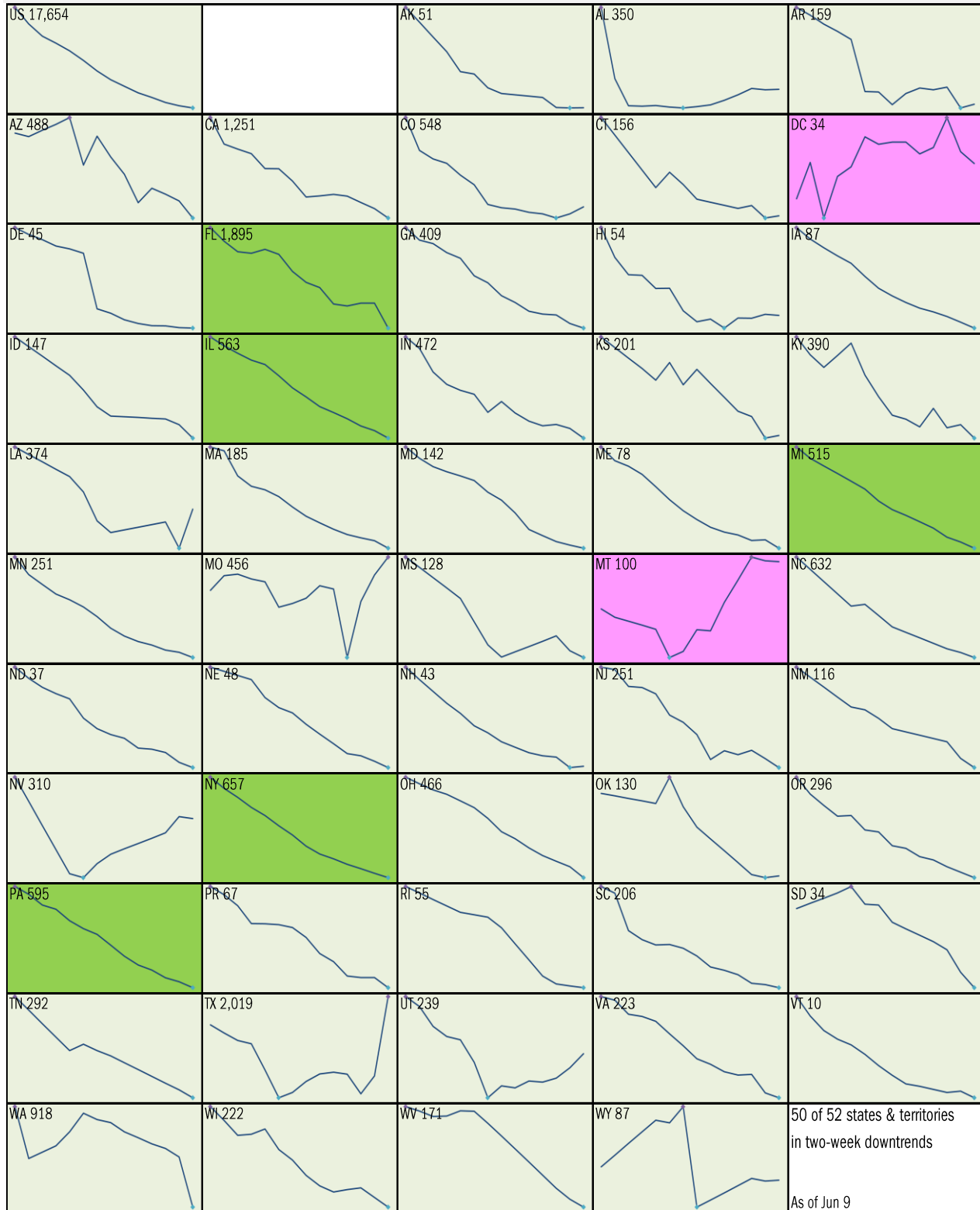


Source: [Johns Hopkins](#), TrendMacro calculations

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

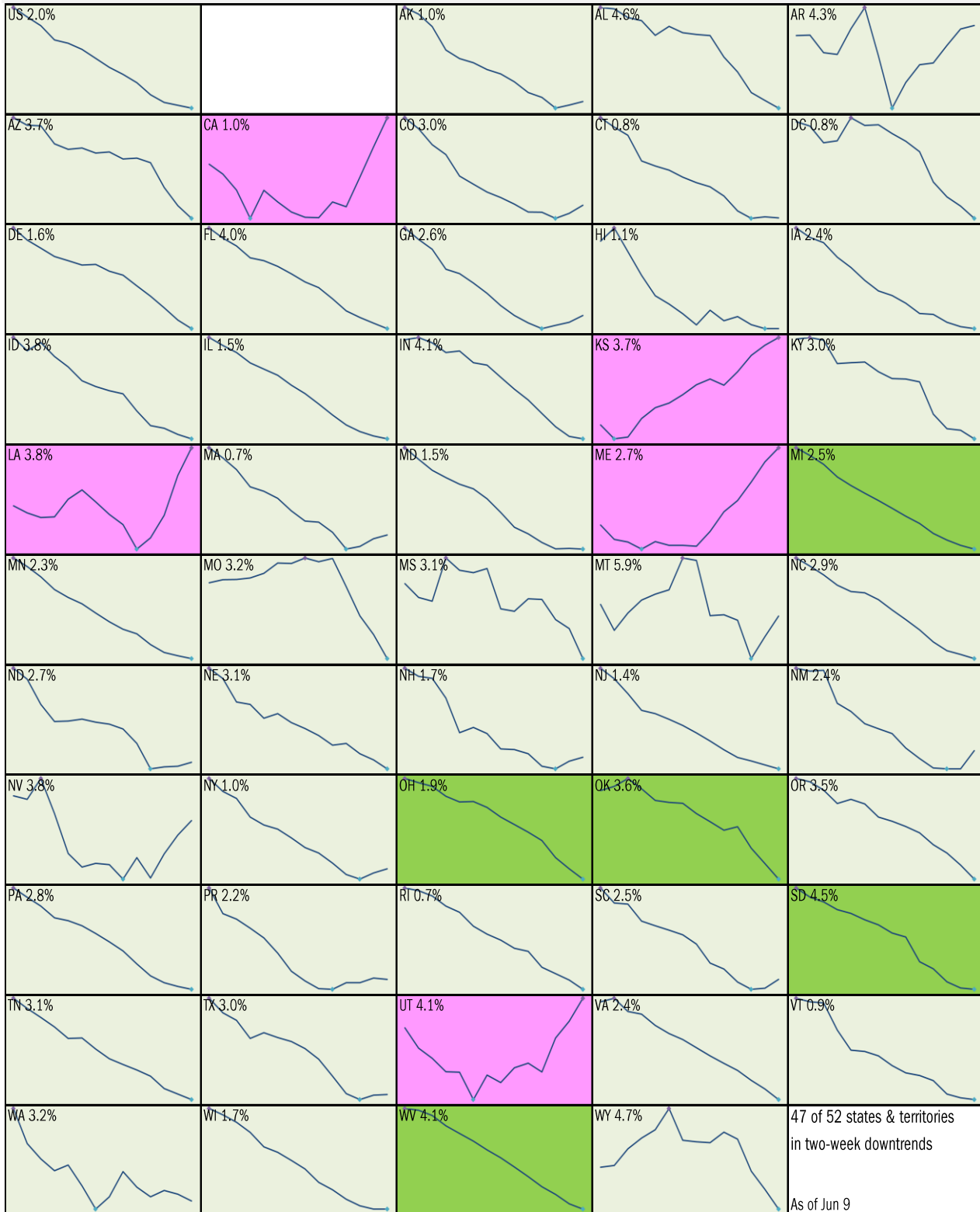


Source: [Johns Hopkins](#), TrendMacro calculations

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

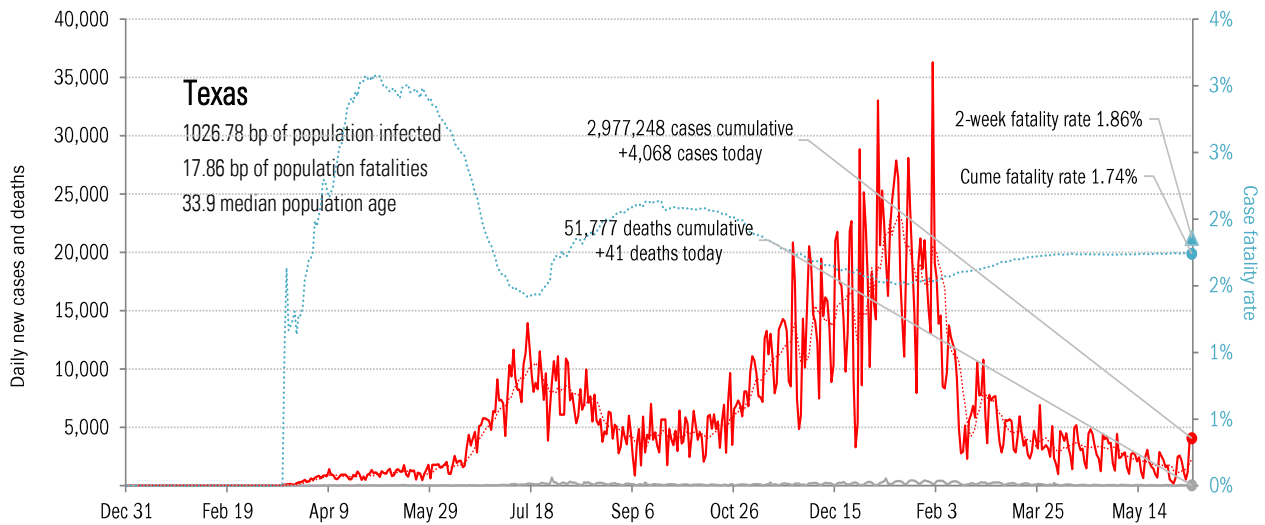
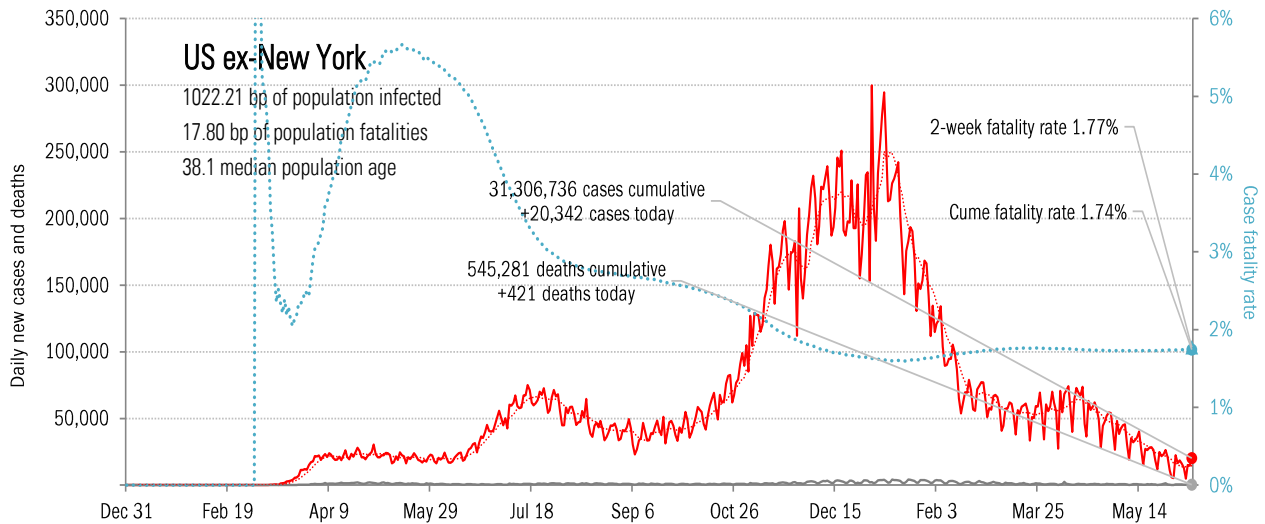
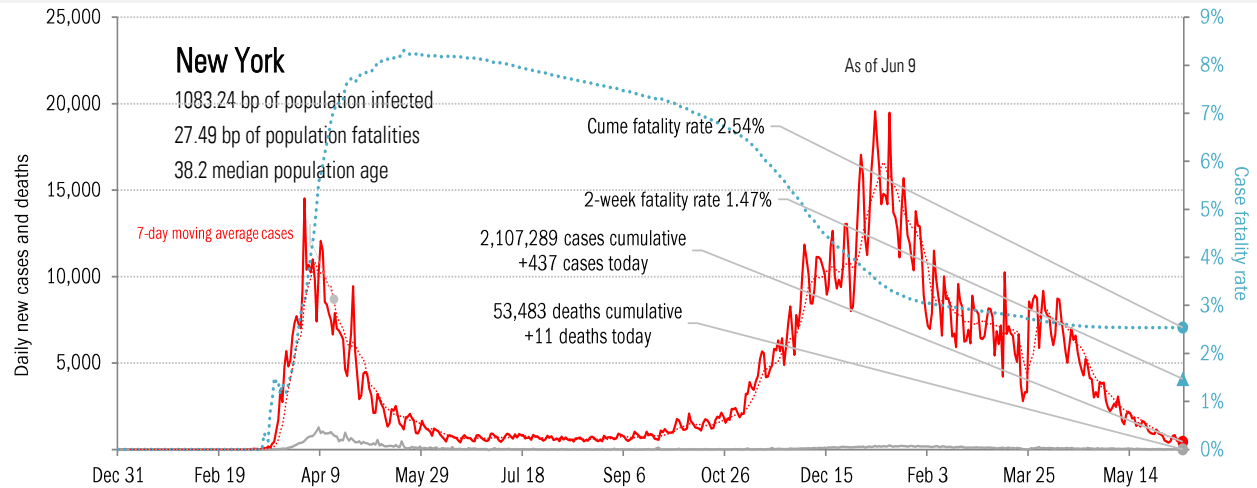
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



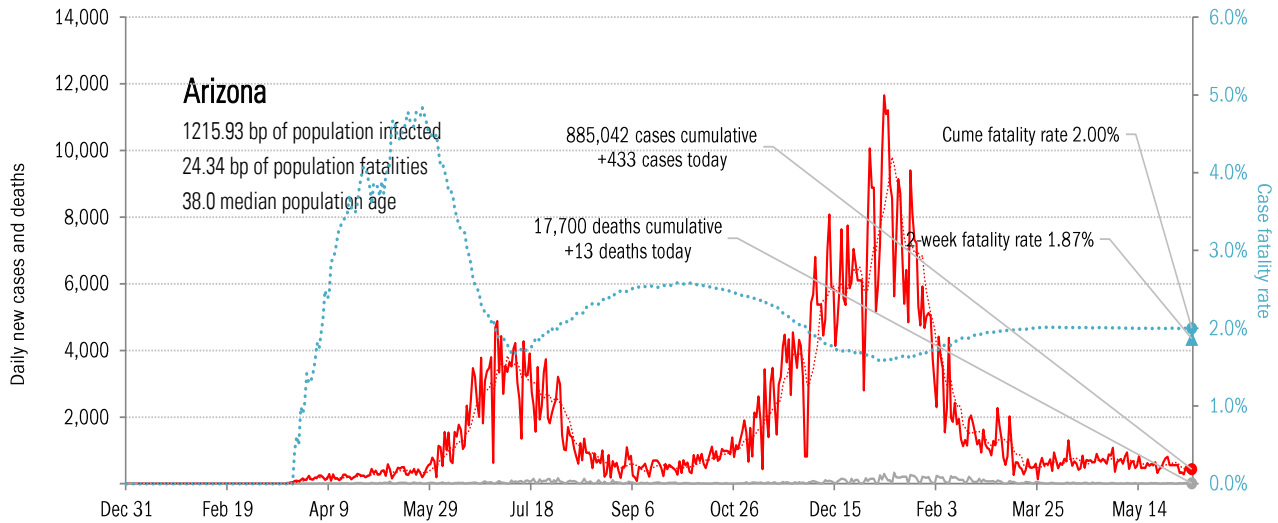
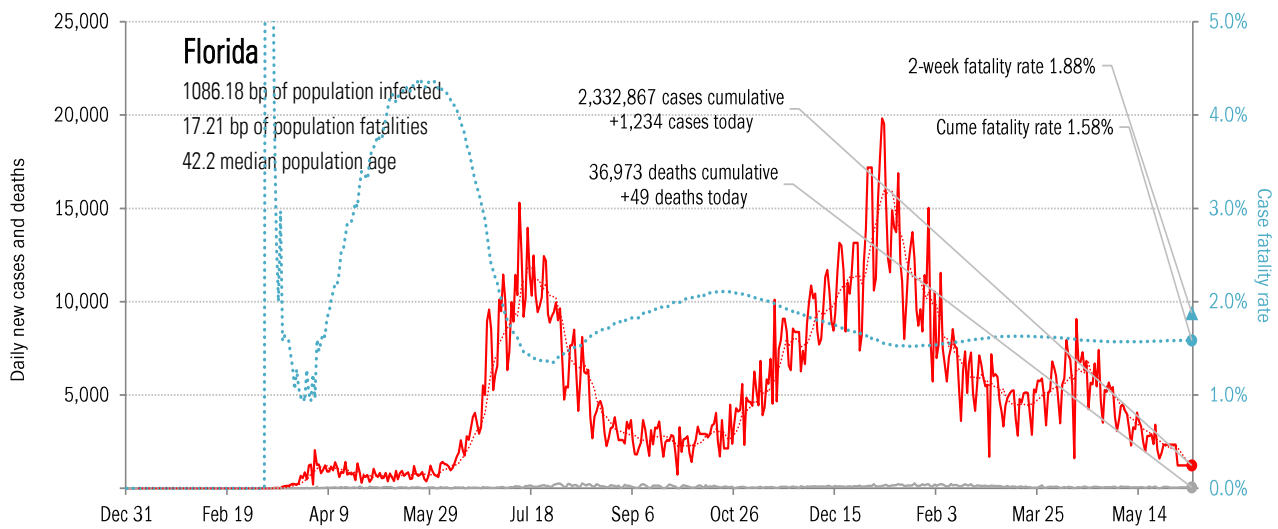
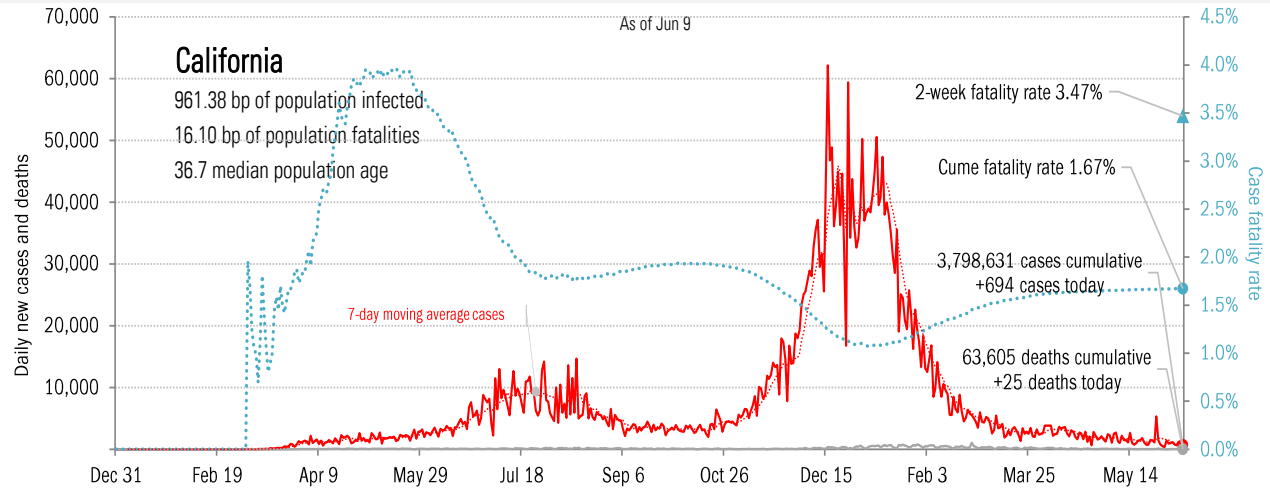
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



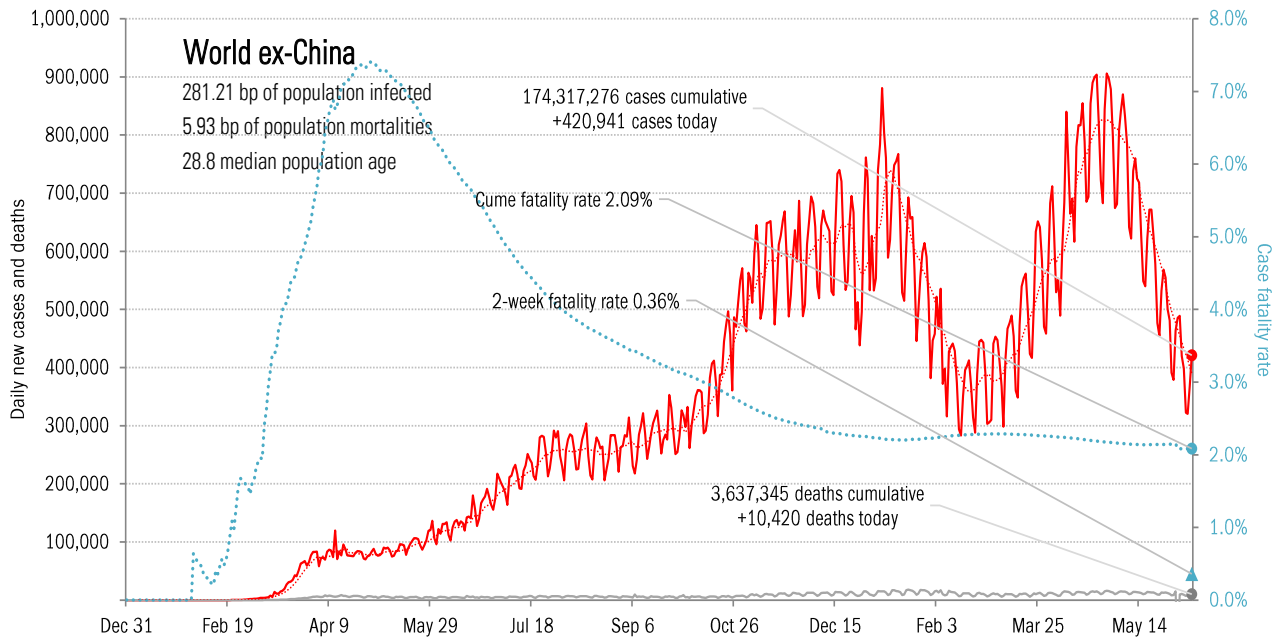
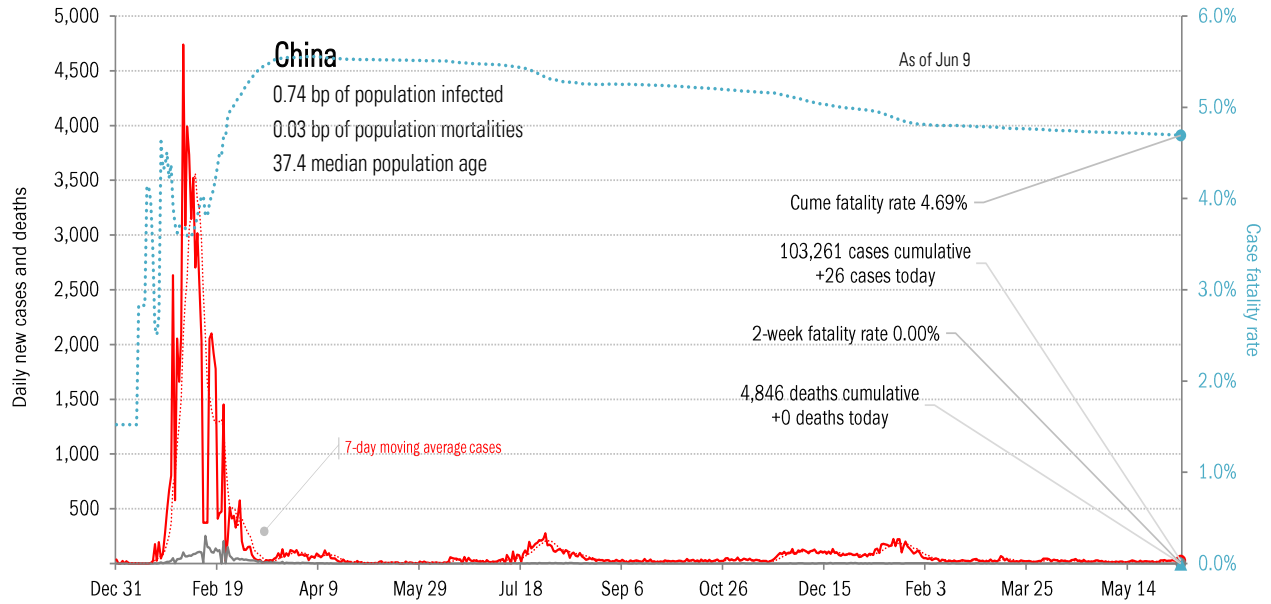
Source: [Johns Hopkins](#), TrendMacro calculations

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



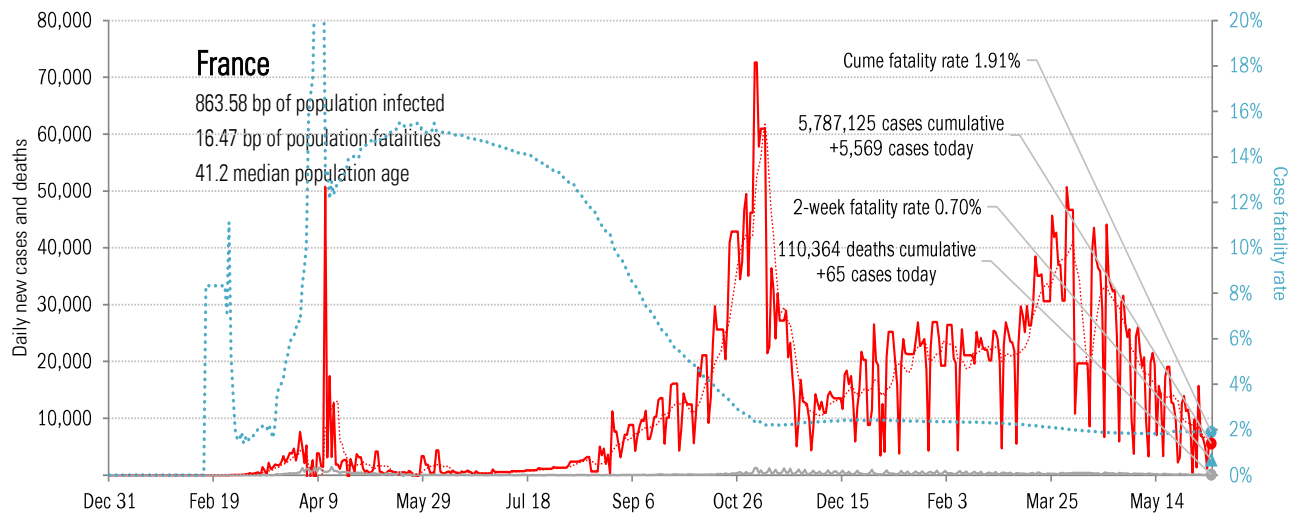
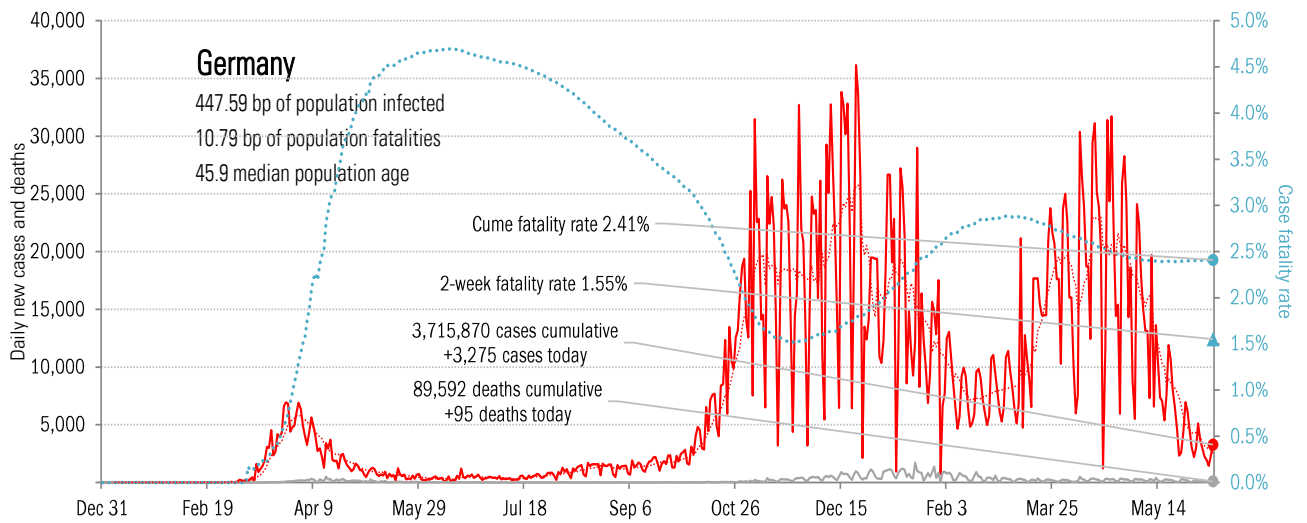
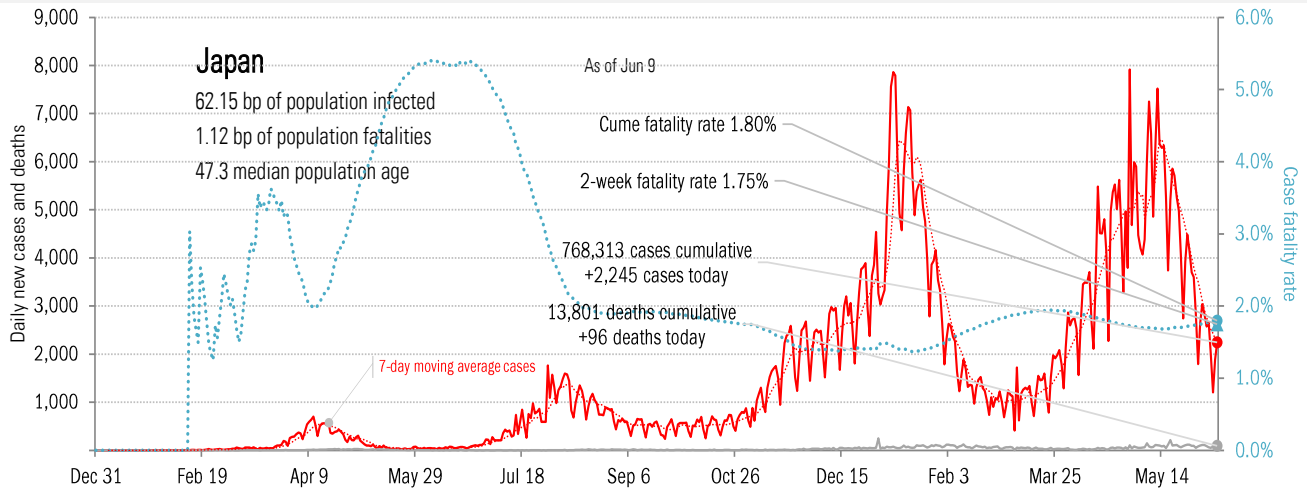
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



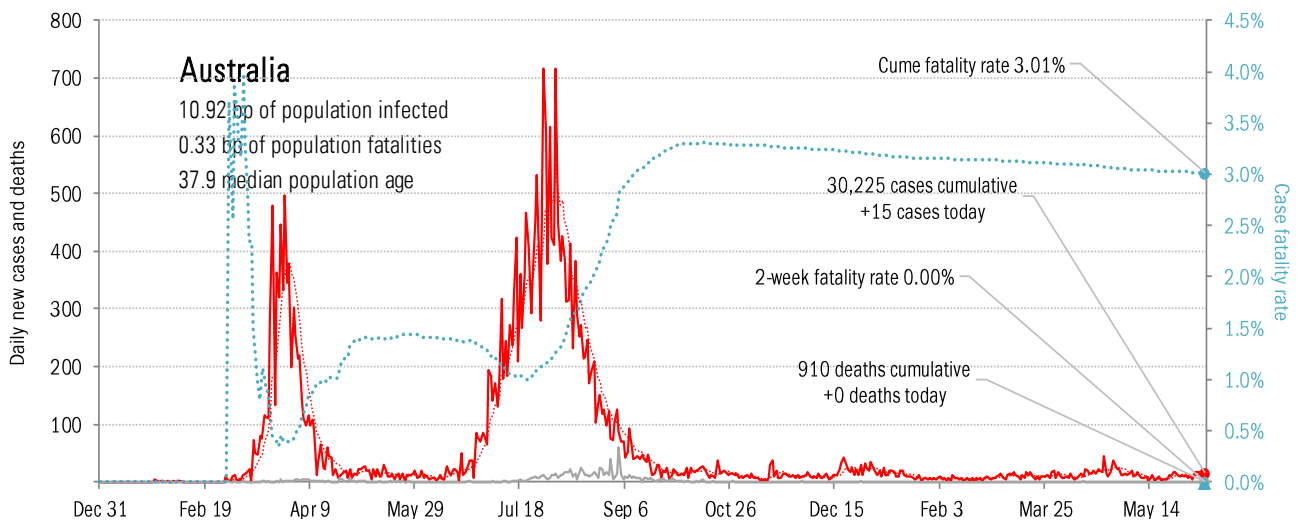
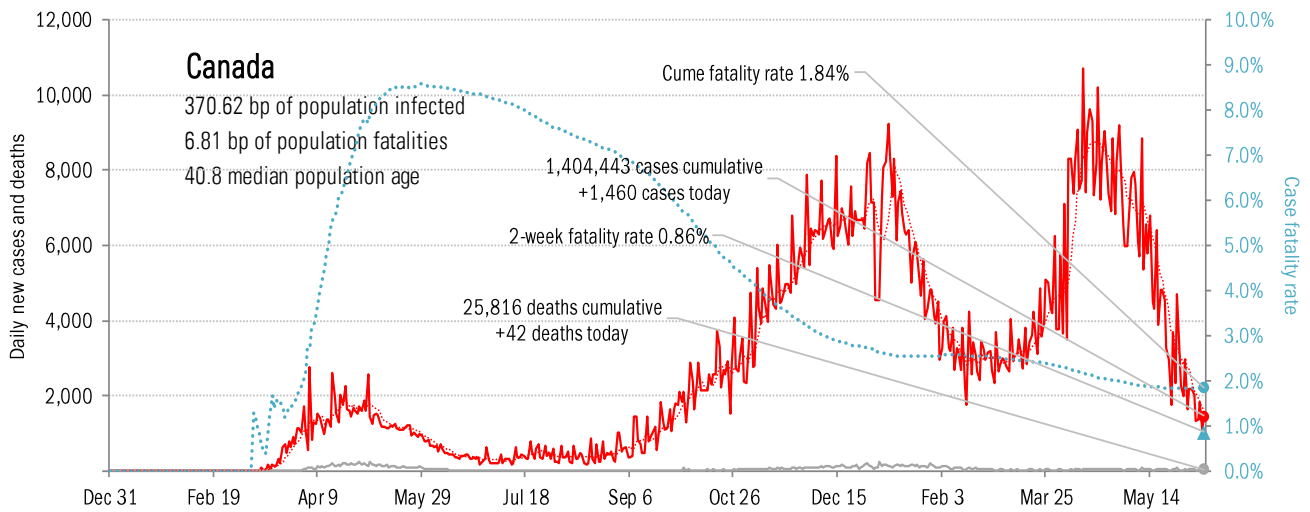
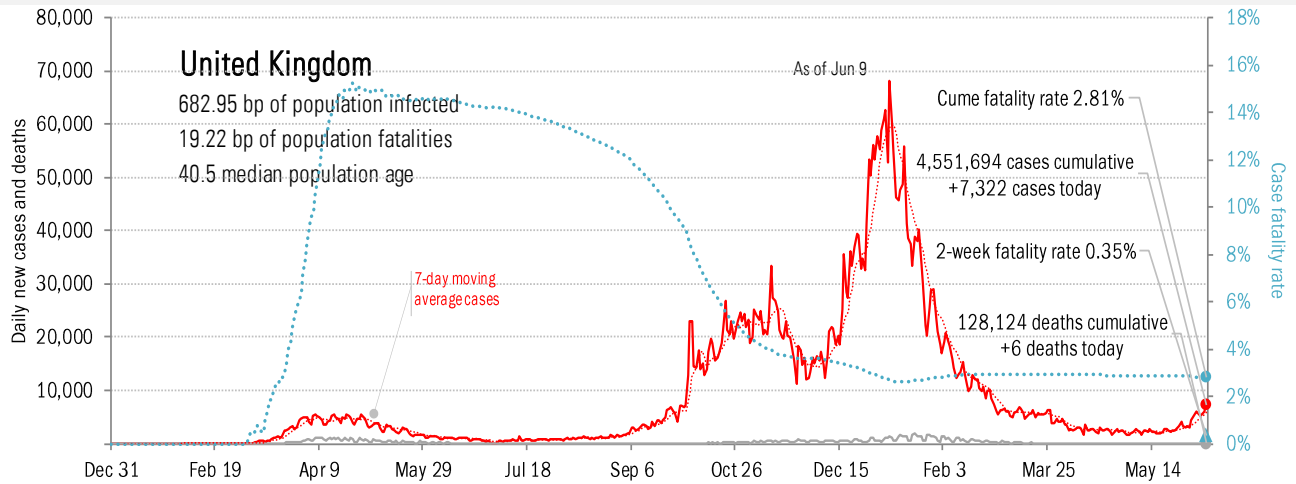
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



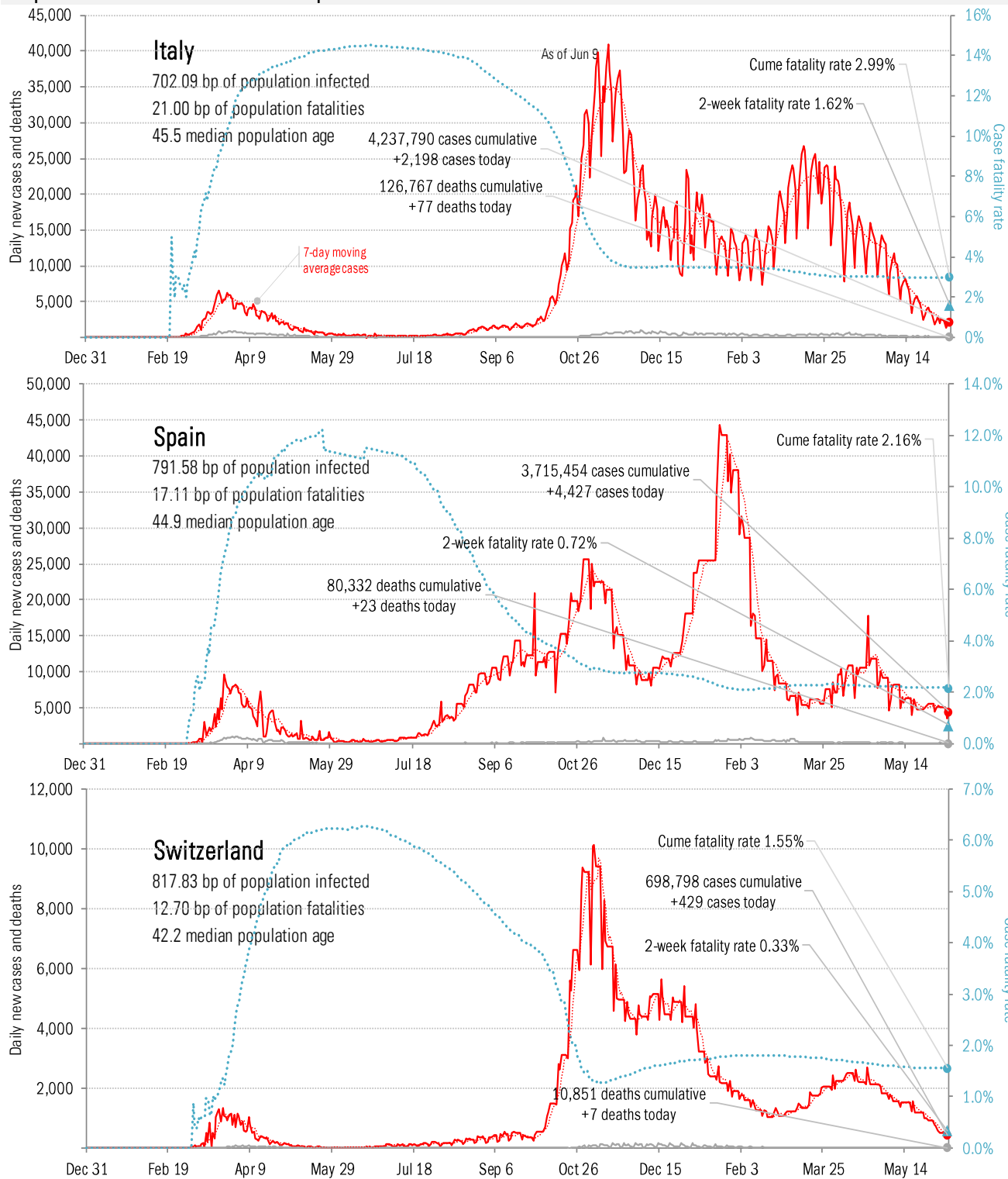
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



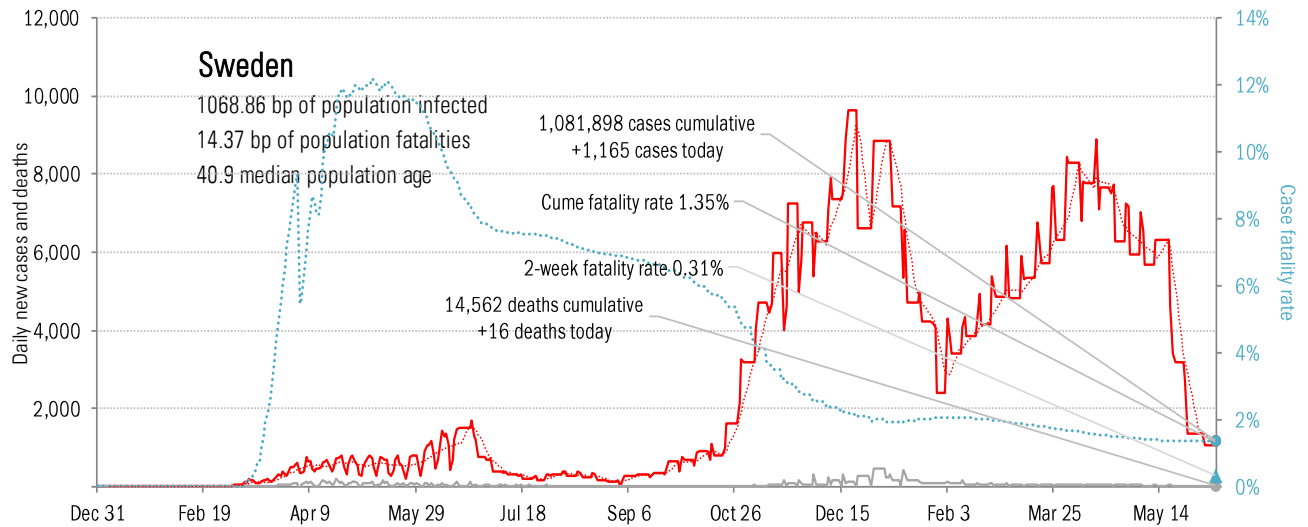
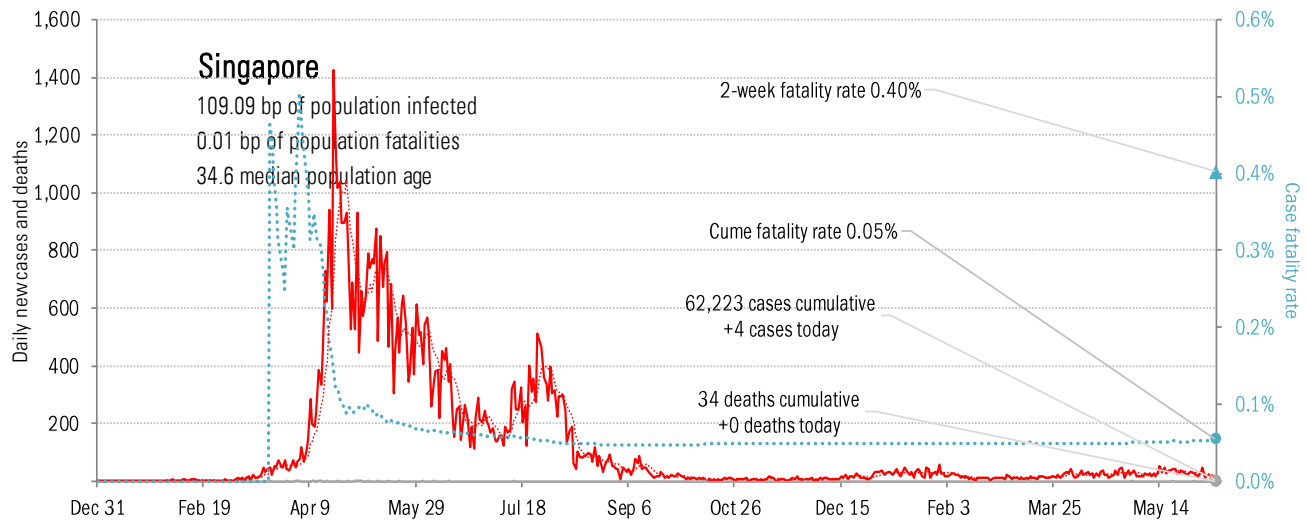
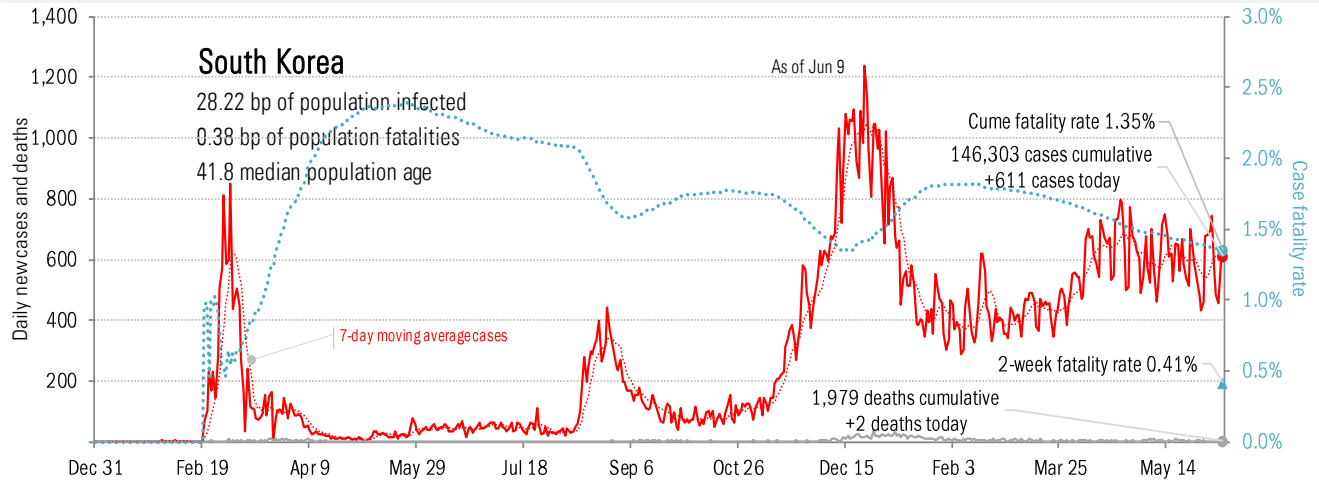
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



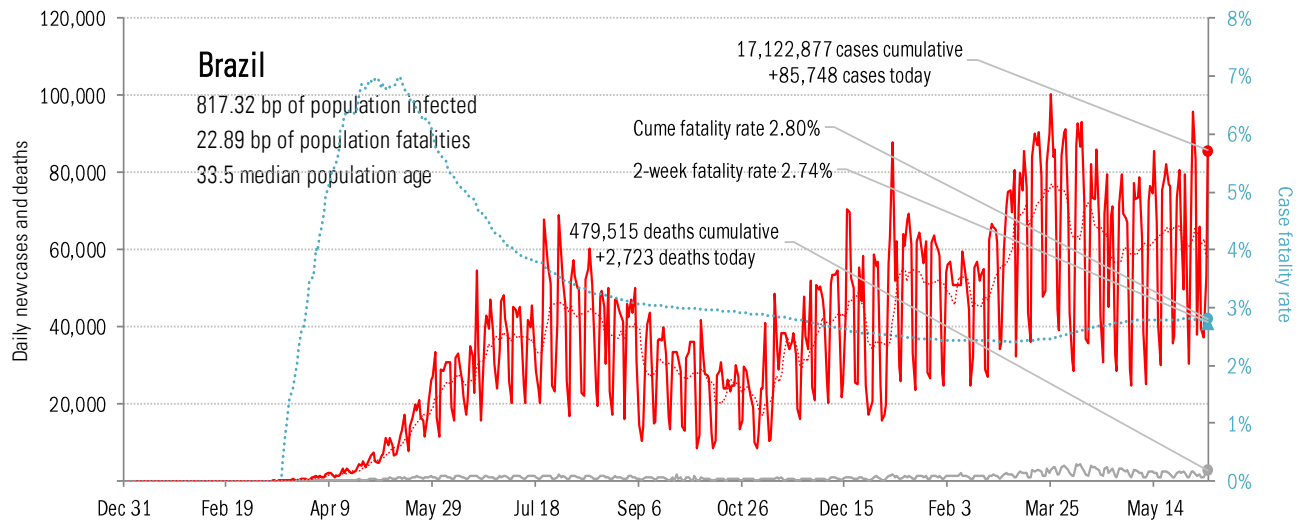
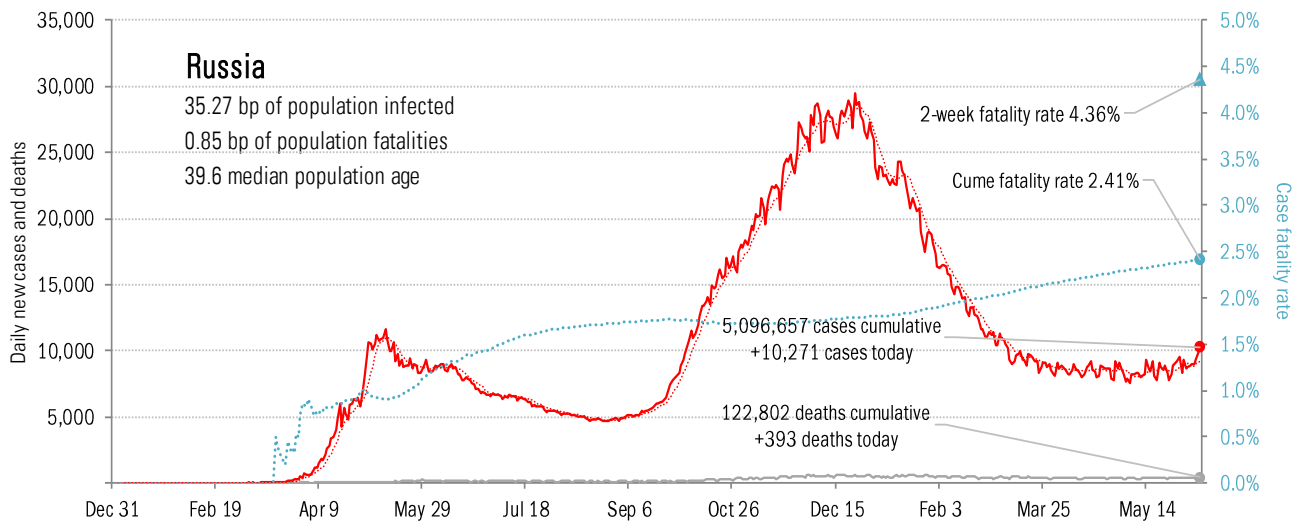
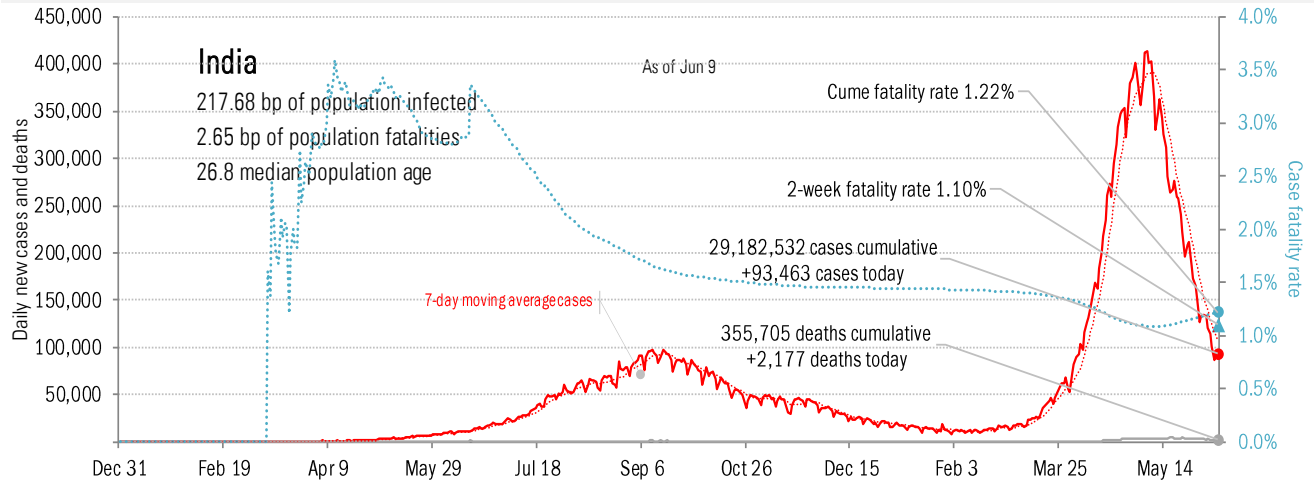
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



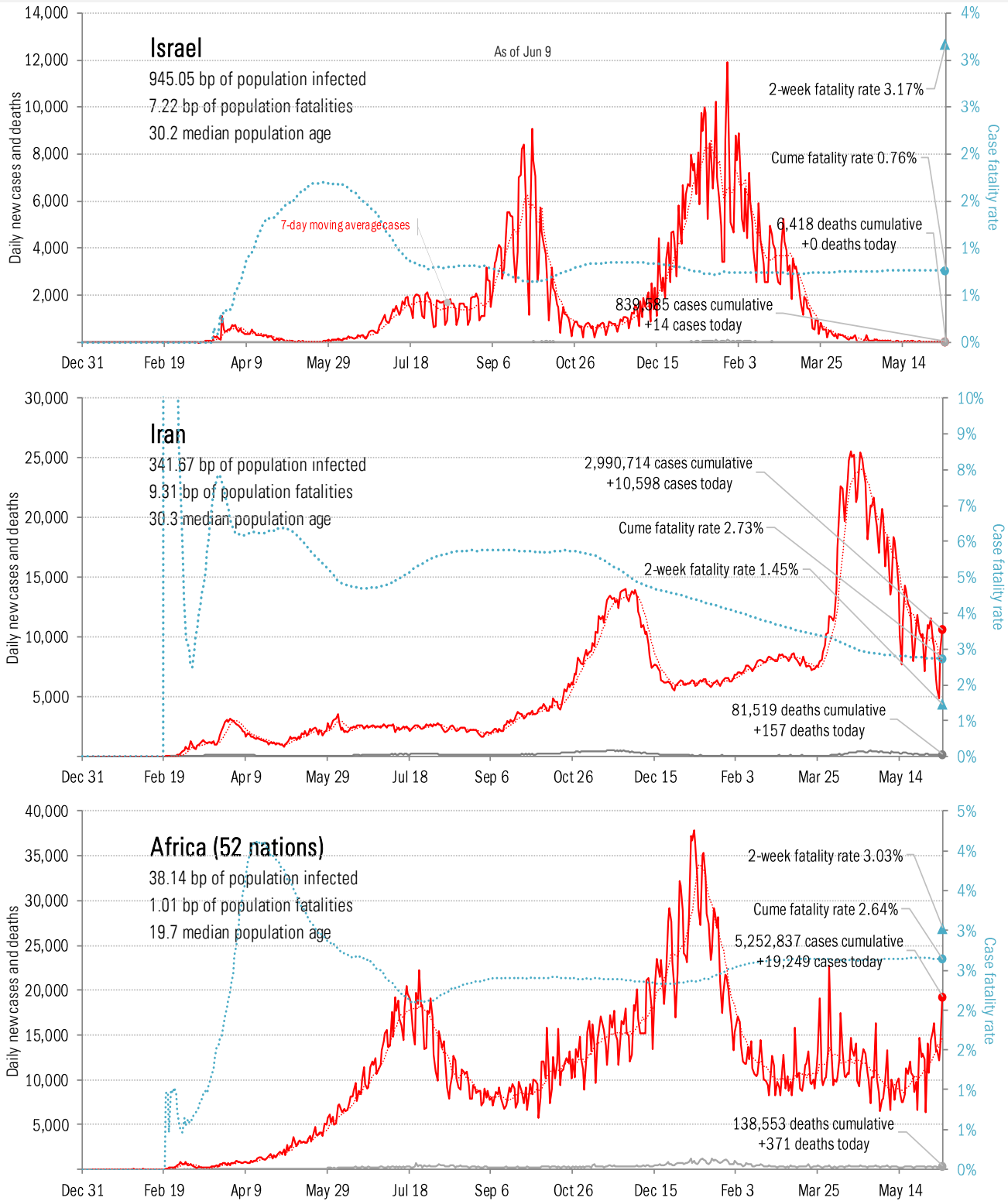
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



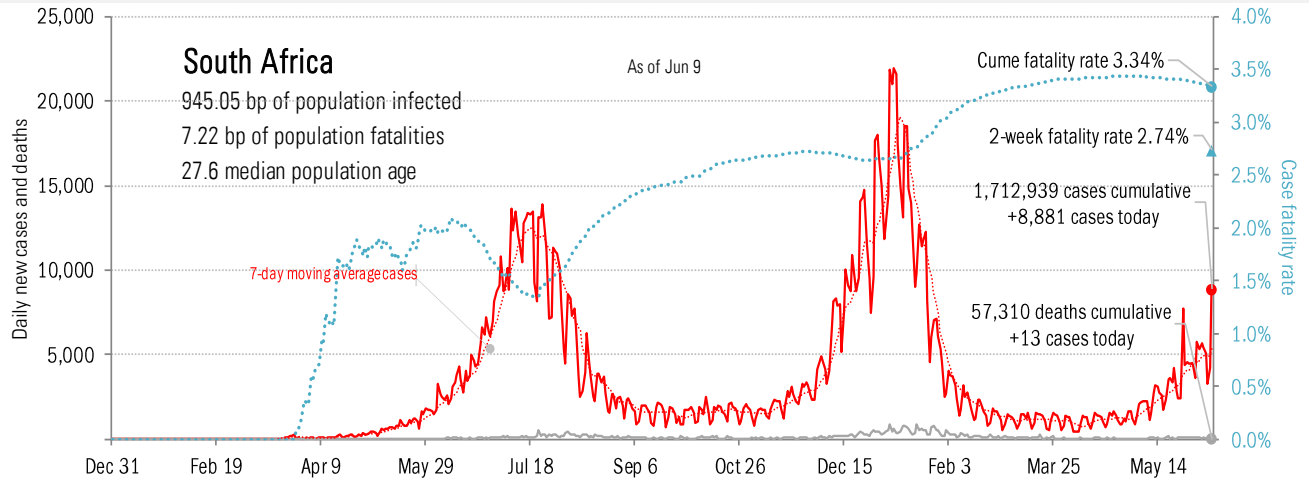
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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