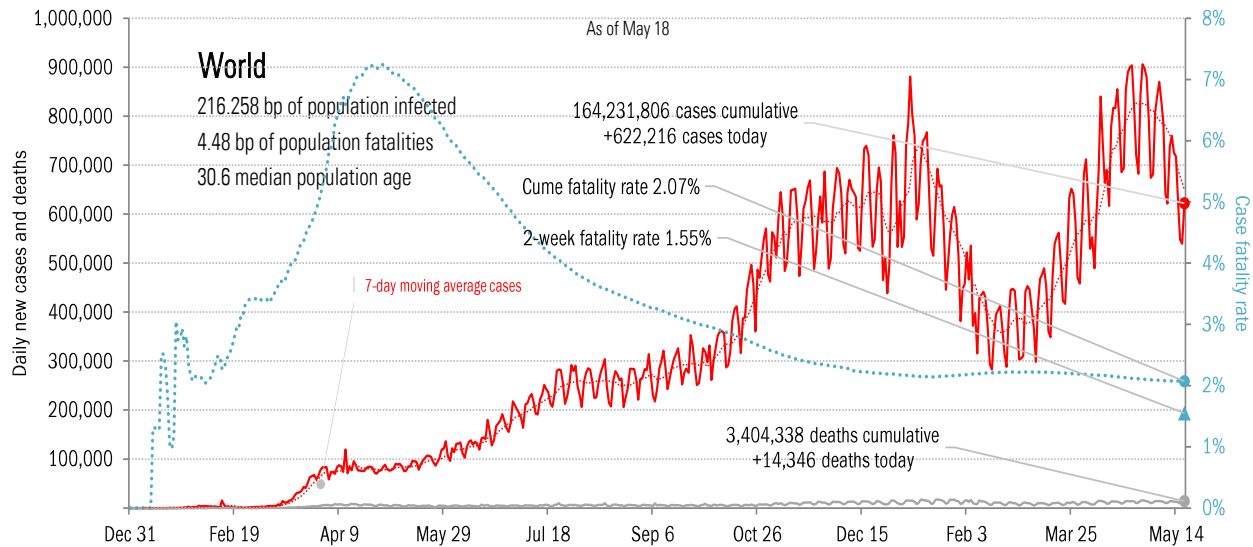
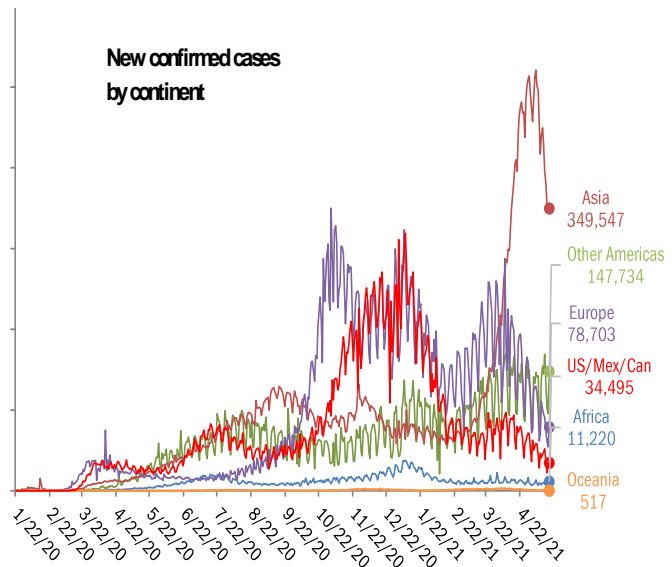


## Data Insights: Covid-2019 Monitor

Wednesday, May 19, 2021

### The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+267,334	India	+4,529
Brazil	+75,445	Brazil	+2,513
Argentina	+35,543	United States	+857
United States	+27,851	Argentina	+744
France	+17,223	Colombia	+482
Iran	+13,930	Russia	+356
Colombia	+13,137	Iran	+310
Turkey	+11,937	Ukraine	+293
Sweden	+10,017	Germany	+285
Nepal	+8,136	Mexico	+253
<b>+480,553</b>		<b>+10,622</b>	
World	+622,216	World	+14,346
Top ten	77%	Top ten	74%



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

#### For more information contact us:

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 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

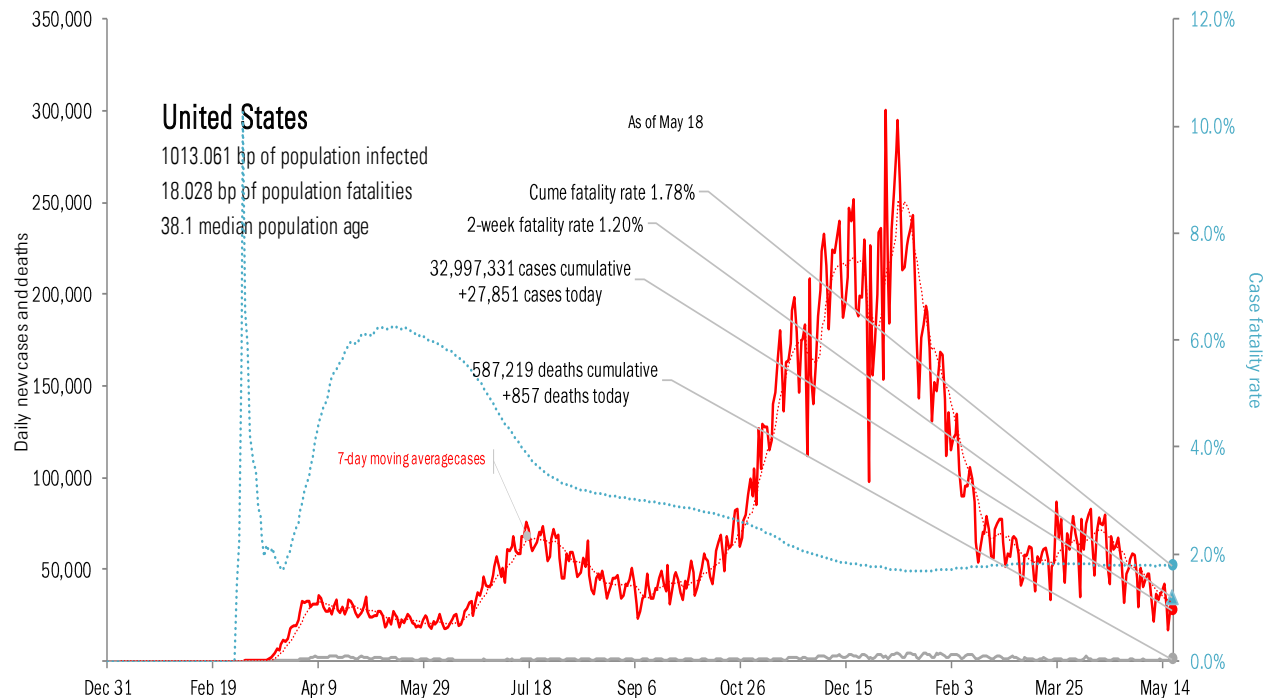
## The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
TX	+3,092		MO	+116		MN	+28		CA	3,771,240		CA	62,727		TX	244,459		RI	92%	MI	23%
FL	+2,805		CH	+100		NV	+11		TX	2,934,592		NY	53,020		CA	233,543		MA	83%	CO	17%
PA	+1,641		FL	+94		WI	+11		FL	2,296,785		TX	51,012		FL	175,123		MD	82%	MD	15%
MI	+1,535		MI	+87		AL	+8		NY	2,088,361		FL	36,227		NY	132,106		PA	81%	MN	15%
NY	+1,525		TX	+40		UT	+7		IL	1,368,622		PA	26,828		GA	104,915		MO	80%	WA	14%
IL	+1,496		NY	+31		NC	+6		PA	1,189,913		NJ	25,998		PA	87,812		CT	79%	ME	14%
CA	+1,413		PA	+30		RI	+5		GA	1,116,775		IL	24,830		CH	83,908		FL	78%	WV	14%
CH	+993		IL	+29		AZ	+4		CH	1,092,616		GA	20,532		IL	78,829		DC	78%	MO	13%
GA	+767		CA	+28		ME	+3		NJ	1,011,752		MI	19,899		KY	74,032		GA	78%	ND	12%
CO	+730		GA	+26		MS	+3		NC	992,578		CH	19,628		MI	69,526		MN	78%	GA	12%
+15,997			+581			+86			17,863,234			340,701			1,284,253						
All states +27,851			+857			-531			All states 32,997,331			587,219			2,302,479			All states 70%		67%	
Top ten 57%			68%			-16%			Top ten 54%			58%			56%			Median 72%		9%	

Some states not reporting

## Five most improved US states

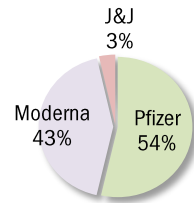
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NC	-1,996	MA	-18	NM	-156	ME	+107 bp
MI	-1,041	CT	-17	TX	-71	UT	+103 bp
TN	-851	NC	-9	GA	-70	RI	+69 bp
LA	-619	AK	-7	CA	-36	VT	+55 bp
CT	-581	NY	-5	KS	-28	DC	+42 bp



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	359,005,995				+2.192 million	US	37.2%	47.4%
Doses administered	284,322,634				+1.127 million	UK	30.3%	54.2%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	13.5%	30.6%
Total population	162,716,100	49%	128,209,197	38%	+0.629 million	Spain	15.7%	33.1%
Age 12 to 17	3,559,042	14%	1,640,898	7%	+0.040 million	Germany	11.8%	37.9%
Age 18 to 64	111,243,677	55%	85,279,647	42%	+0.589 million	Italy	15.0%	32.4%
Age 65 and over	47,844,446	87%	41,280,285	75%	+0.001 million	Australia	2.0%	0.6%
						Israel	59.0%	62.8%
						Canada	3.8%	46.7%
						Japan	1.7%	3.9%
						Africa	0.5%	1.4%
						India	3.0%	10.5%
						Brazil	8.2%	17.3%



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 **174 days** by Nov 8, 2021  
 60.5% of population >18 immunized  
 13.9% previously tested positive  
**74.4%** vs 60% adult herd immunity\*

Global data differs from sources, timing

AK
58.1%
44.0%
37.9%

ME
64.8%
59.5%
49.8%

WI	VT	NH								
51.5%	69.6%	60.1%								
48.4%	65.5%	60.1%								
41.9%	48.0%	35.7%								
WA	ID	MT	ND	MN	IL	MI	NY	MA		
58.1%	45.9%	52.2%	46.3%	54.8%	55.7%	56.1%	57.6%	65.8%		
52.4%	36.1%	43.2%	40.7%	51.3%	51.1%	46.1%	52.1%	62.8%		
40.9%	31.0%	36.4%	35.3%	42.0%	36.9%	39.0%	43.0%	47.3%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
59.3%	47.4%	45.6%	55.4%	52.5%	47.9%	51.2%	59.3%	60.6%	63.4%	67.0%
51.0%	42.8%	35.5%	46.5%	46.9%	39.5%	43.3%	55.0%	56.5%	59.7%	57.3%
39.6%	34.1%	30.6%	41.2%	41.0%	32.7%	38.0%	39.6%	44.6%	49.0%	47.7%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
60.1%	48.3%	59.0%	53.0%	48.7%	49.5%	51.9%	57.2%	63.4%	60.8%	
53.6%	43.0%	50.8%	46.2%	40.2%	43.8%	38.2%	51.7%	53.7%	51.0%	
39.0%	30.0%	41.6%	40.0%	32.7%	36.4%	32.9%	40.8%	42.9%	39.6%	
AZ	NM	KS	AR	TN	NC	SC	DC			
54.1%	55.1%	52.5%	48.0%	45.3%	54.8%	50.0%	72.3%			
43.9%	54.6%	44.8%	37.7%	37.3%	41.5%	39.0%	54.3%			
33.8%	44.7%	36.5%	29.4%	30.0%	34.3%	31.9%	41.1%			
OK	LA	MS	AL	GA						
51.5%	43.4%	45.3%	47.5%	50.8%						
40.2%	34.3%	32.8%	34.9%	37.7%						
32.5%	29.8%	26.2%	27.8%	29.5%						
HI	TX	FL	PR							
62.5%	52.6%	56.3%	61.4%							
62.4%	41.4%	46.1%	45.6%							
44.2%	32.8%	35.9%	31.6%							

As of May 18

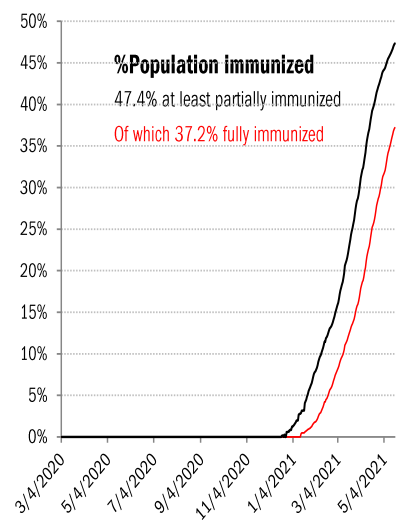
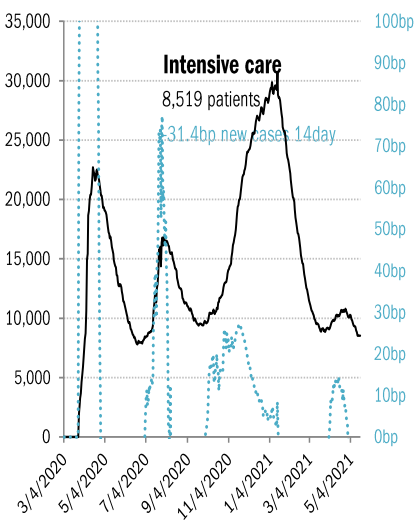
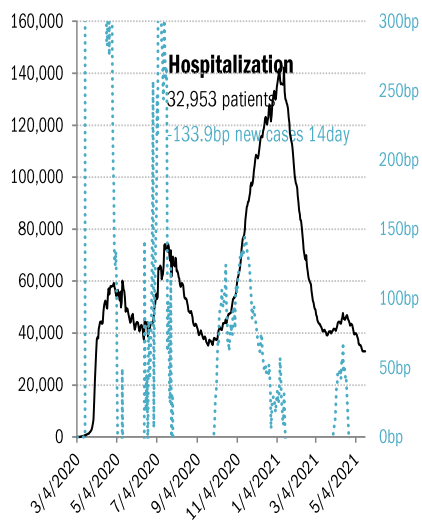
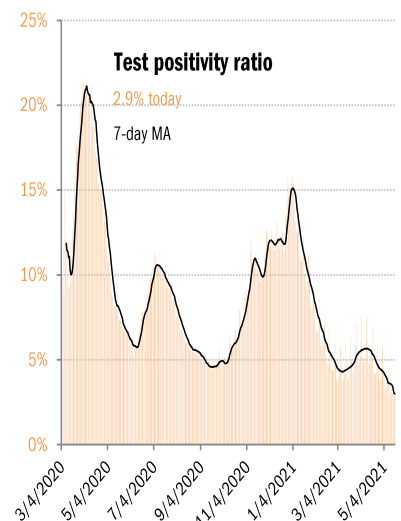
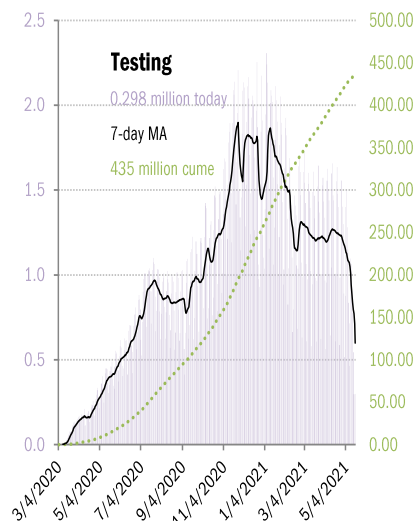
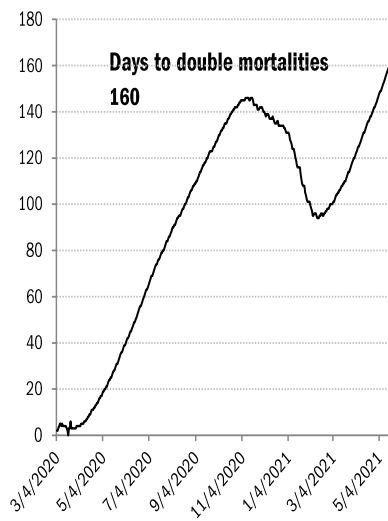
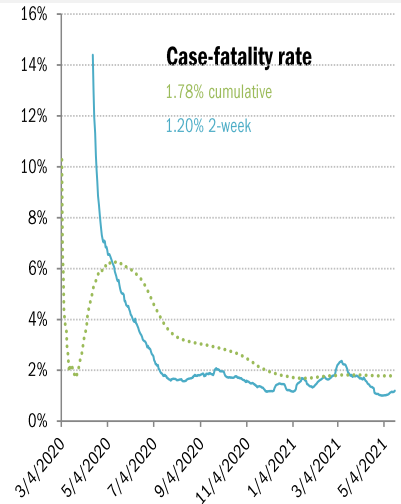
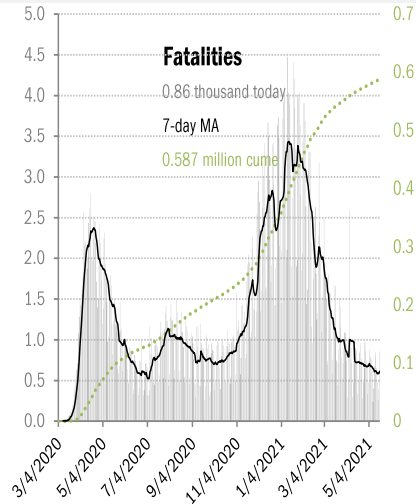
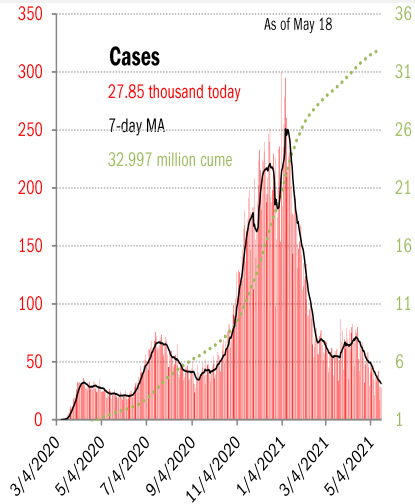
\* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.

\*\* 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

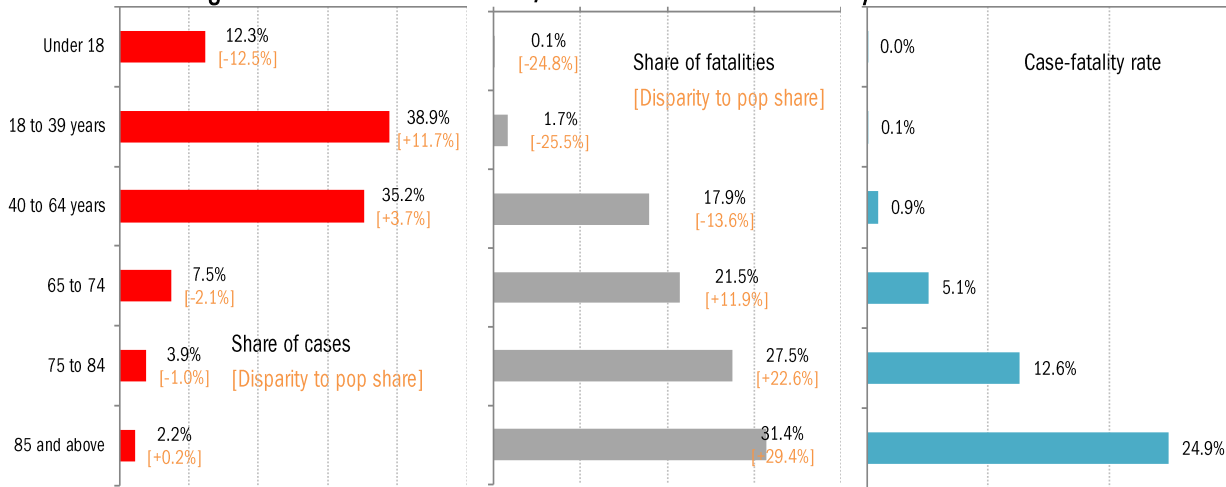
# US deep-dive

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

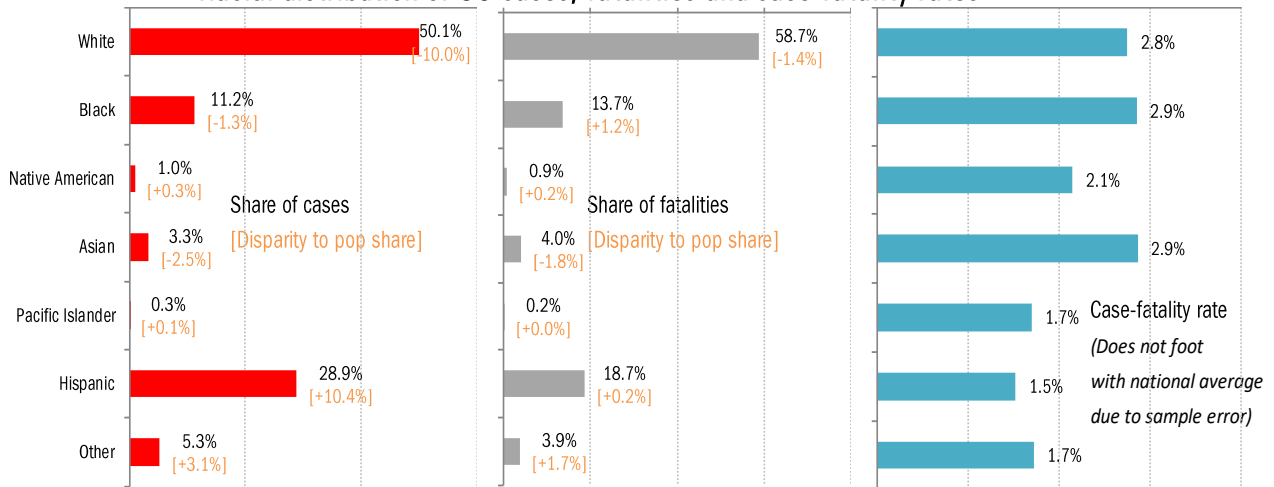


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

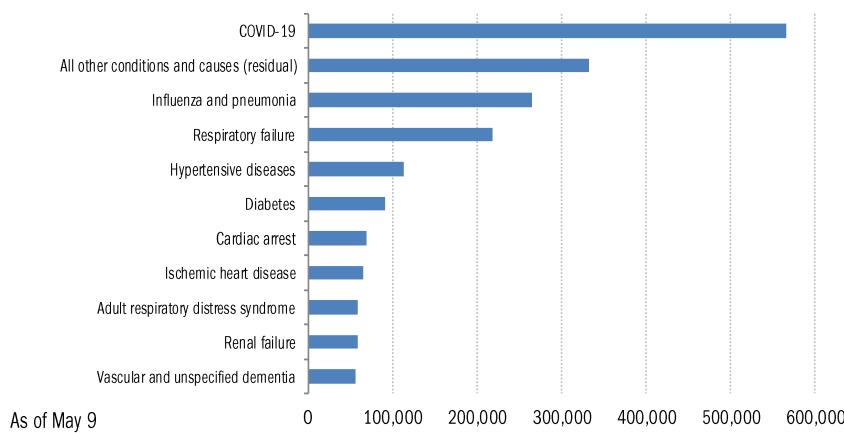


Racial distribution of US cases, fatalities and case-fatality rates



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

[New Honor System on Masks: 'Am I to Trust These People?'](#)

Julie Bosman and Sarah Mervosh  
*New York Times*  
May 18, 2021

[Why Is Covid Killing So Many Young Children in Brazil? Doctors Are Baffled](#)

Ana Ionova  
*New York Times*  
May 16, 2021

[Face Masks and the First Amendment](#)

David B. Rivkin Jr. and James Taranto  
*Wall Street Journal*  
May 18, 2021

[A plant-based COVID-19 vaccine from a GlaxoSmithKline alliance with Medicago shows strong antibody response](#)

Rupert Steiner  
*MarketWatch*  
May 18, 2021

[Texas Gov. Greg Abbott boasts zero COVID deaths after early reopening](#)

Natalie O'Neill  
*New York Post*  
May 17, 2021

[Gov. Greg. Abbott says no public schools or government entities will be allowed to require masks](#)

Patrick Zviteck  
*Texas Tribune*  
May 18, 2021

[Governor Abbott Announces End To Federal Pandemic-Related Unemployment Benefits In Texas](#)

*21 CBSDFW*  
May 17, 2021

[Watch: Uniformed Troops Go To Bars & 7-Eleven In Dallas To Randomly Vaccinate "Younger Crowd"](#)

Tyler Durden  
*Zero Hedge*  
May 18, 2021

[Fox Business panel analyzes tax policy yielding the best results throughout American history](#)

Arthur Laffer, Steve Moore, Steve Forbes  
*Kudlow: Fox Business*  
May 17, 2021

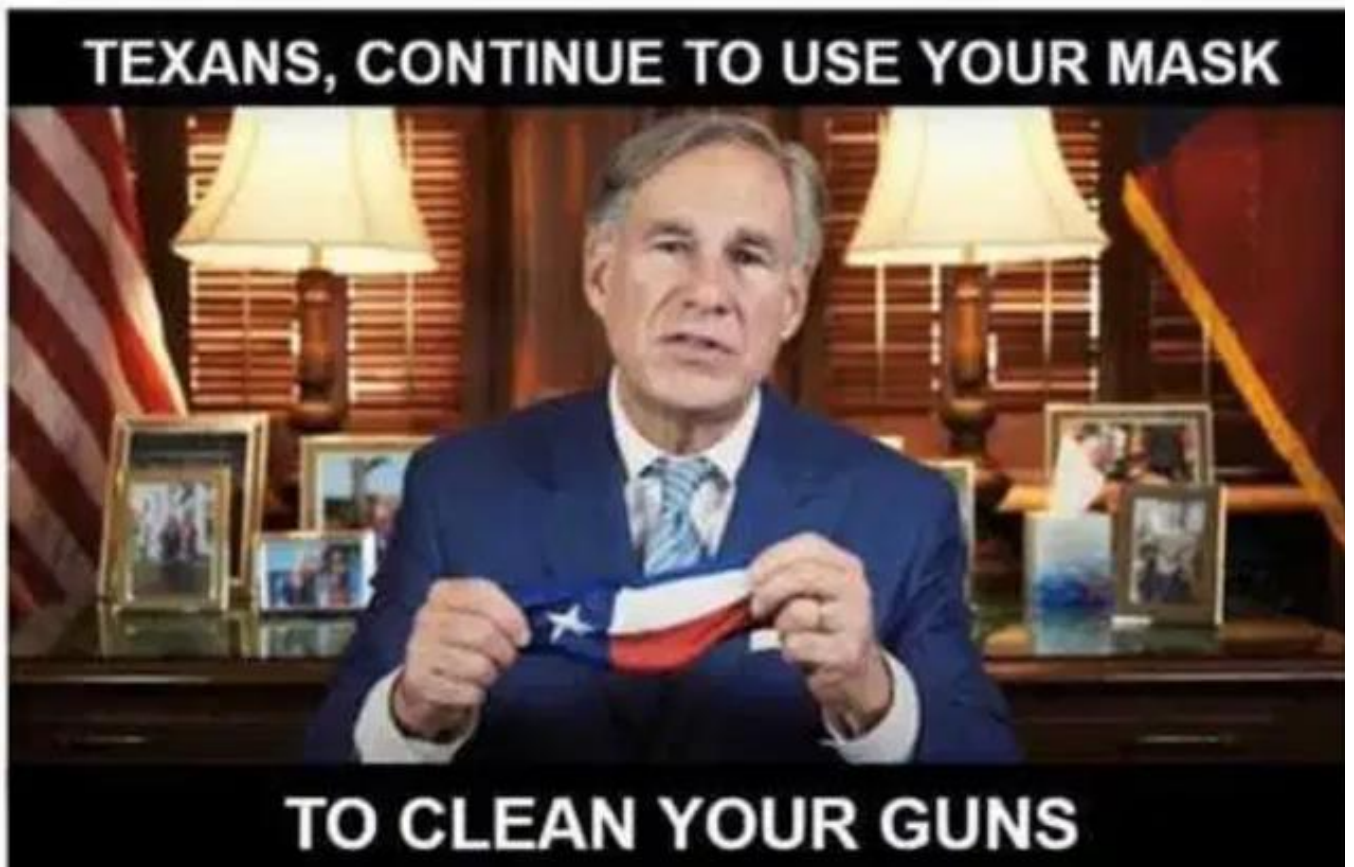
[Can telemedicine finally boost health care productivity?](#)

Bret Swanson  
*AEI Ideas*  
May 18, 2021

[From India, Brazil and Beyond: Pandemic Refugees at the Border](#)

Miriam Jordan  
*New York Times*  
May 16, 2021

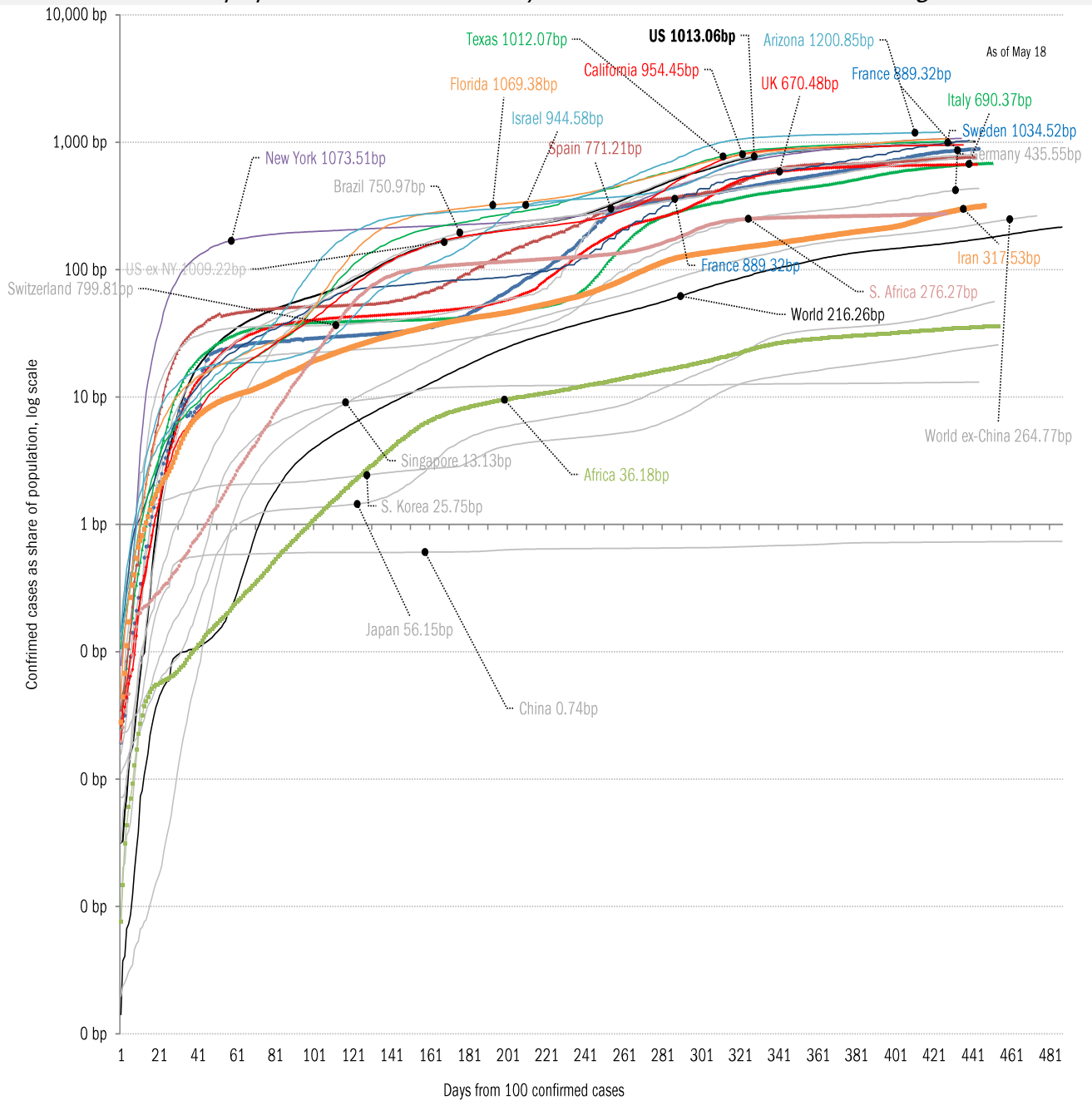
Meme of the day



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



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

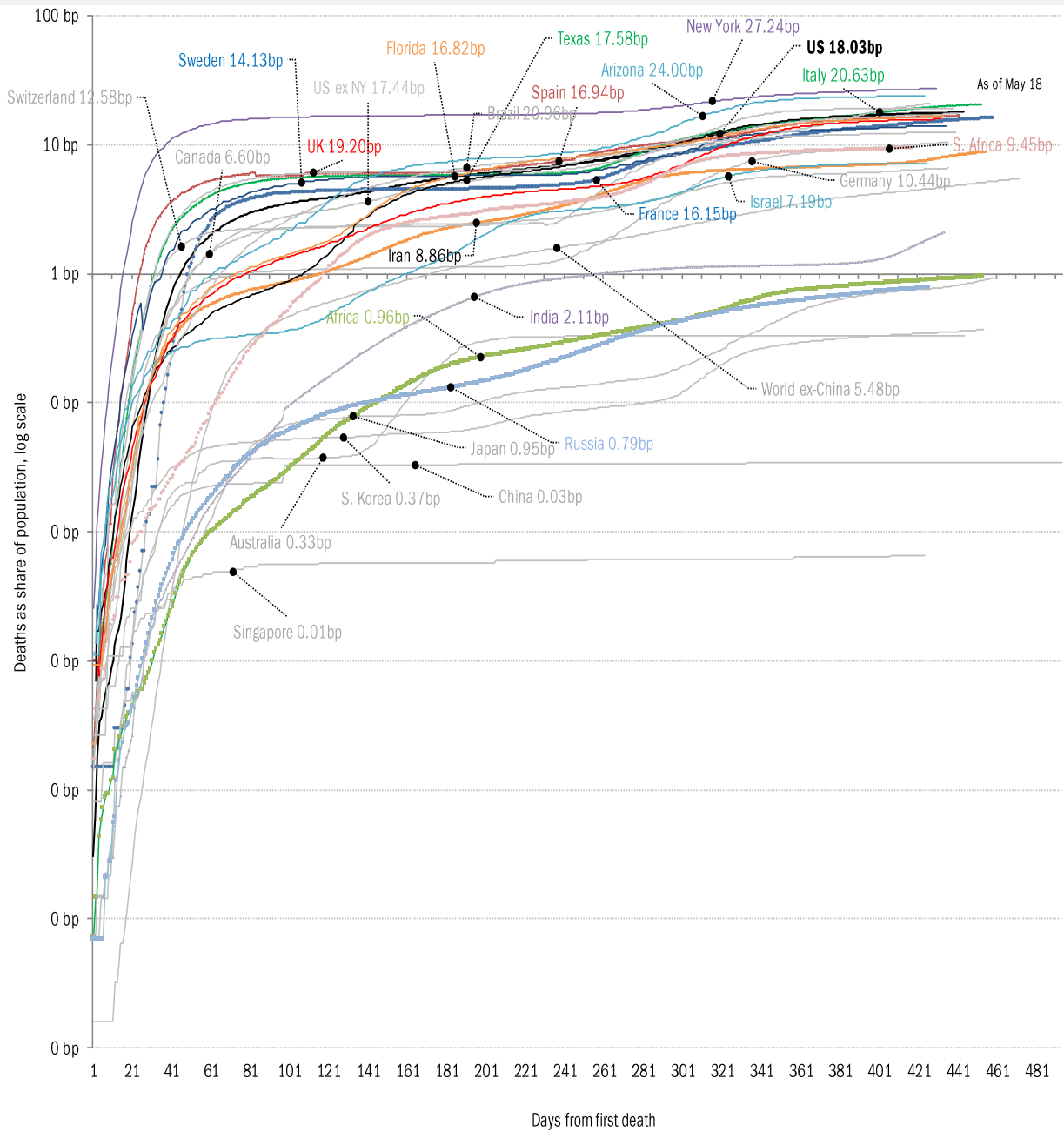


Source: [Johns Hopkins](#), TrendMacro calculations



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

## Share of deceased population from day of first fatality

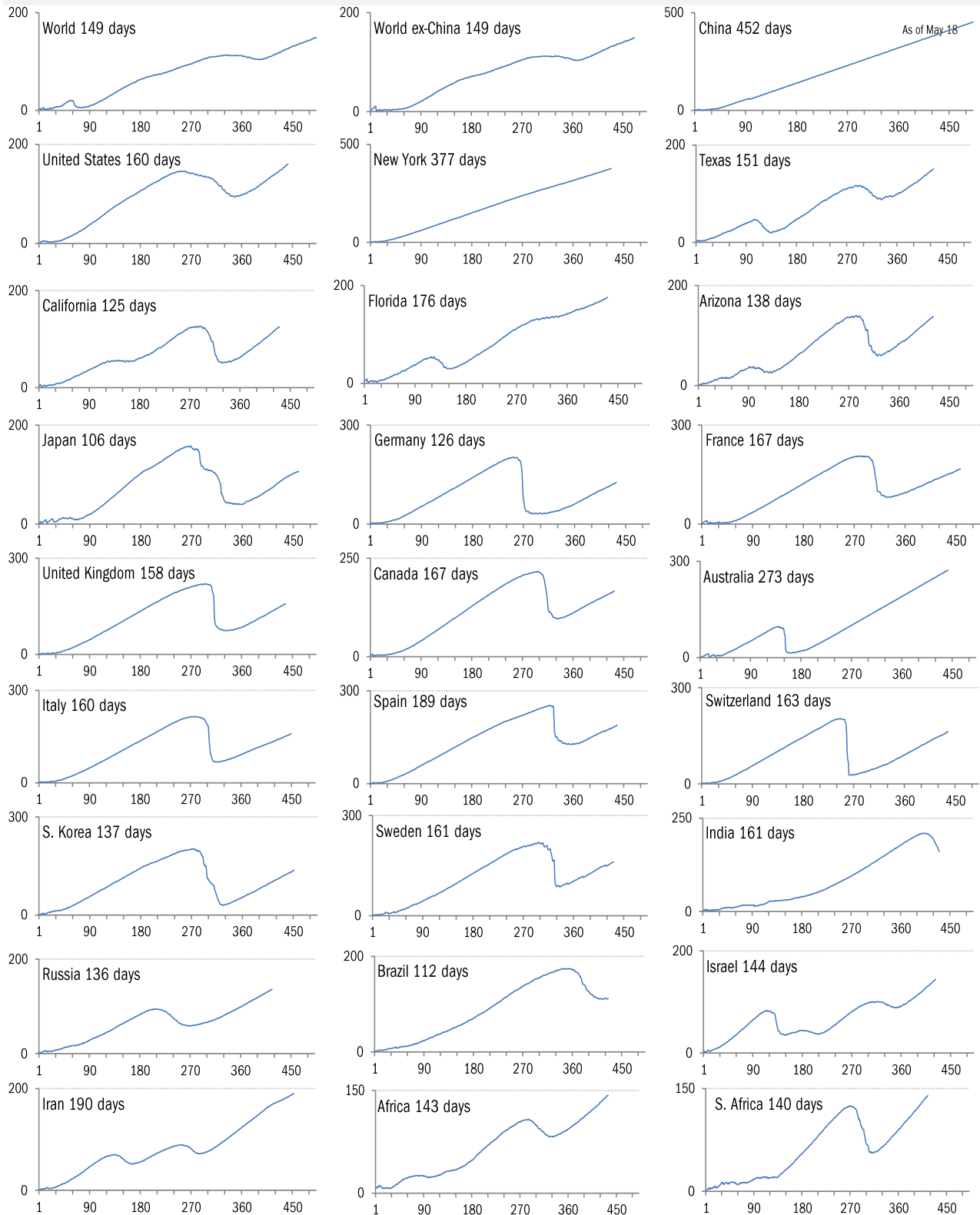


Source: [Johns Hopkins](#), TrendMacro calculations

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

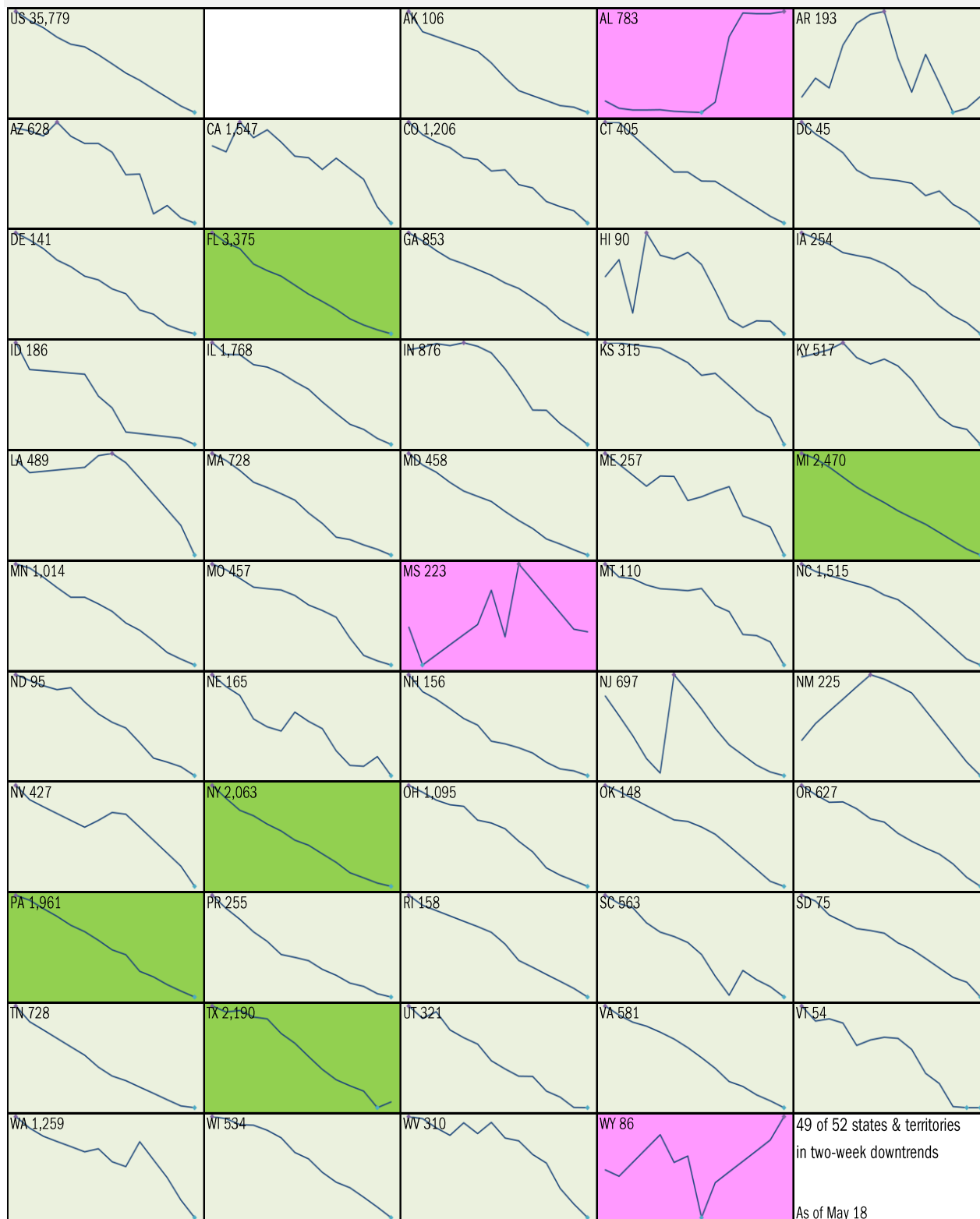
Vertical: days to double deaths Horizontal: days from first death

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

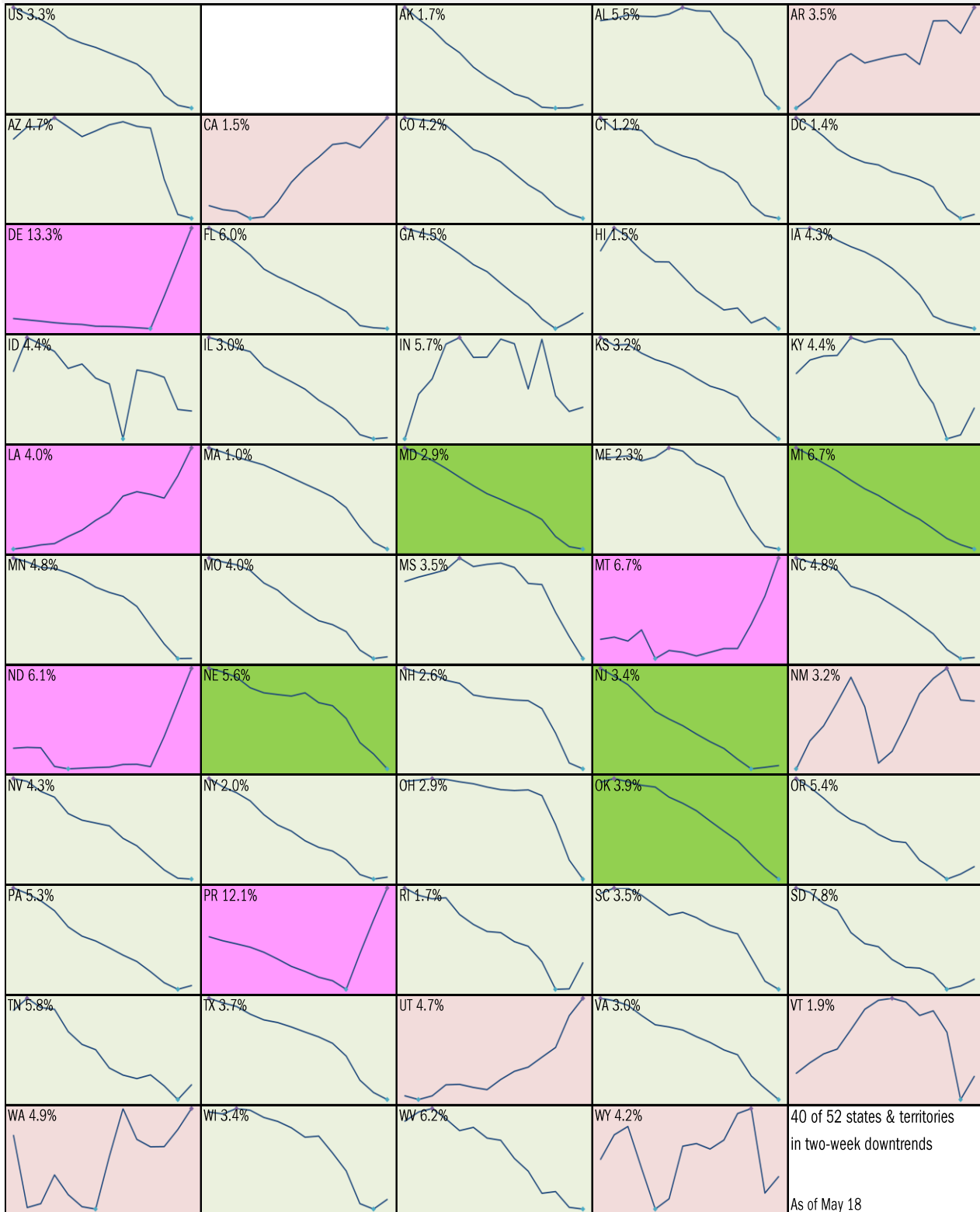


Source: [Johns Hopkins](#), TrendMacro calculations

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

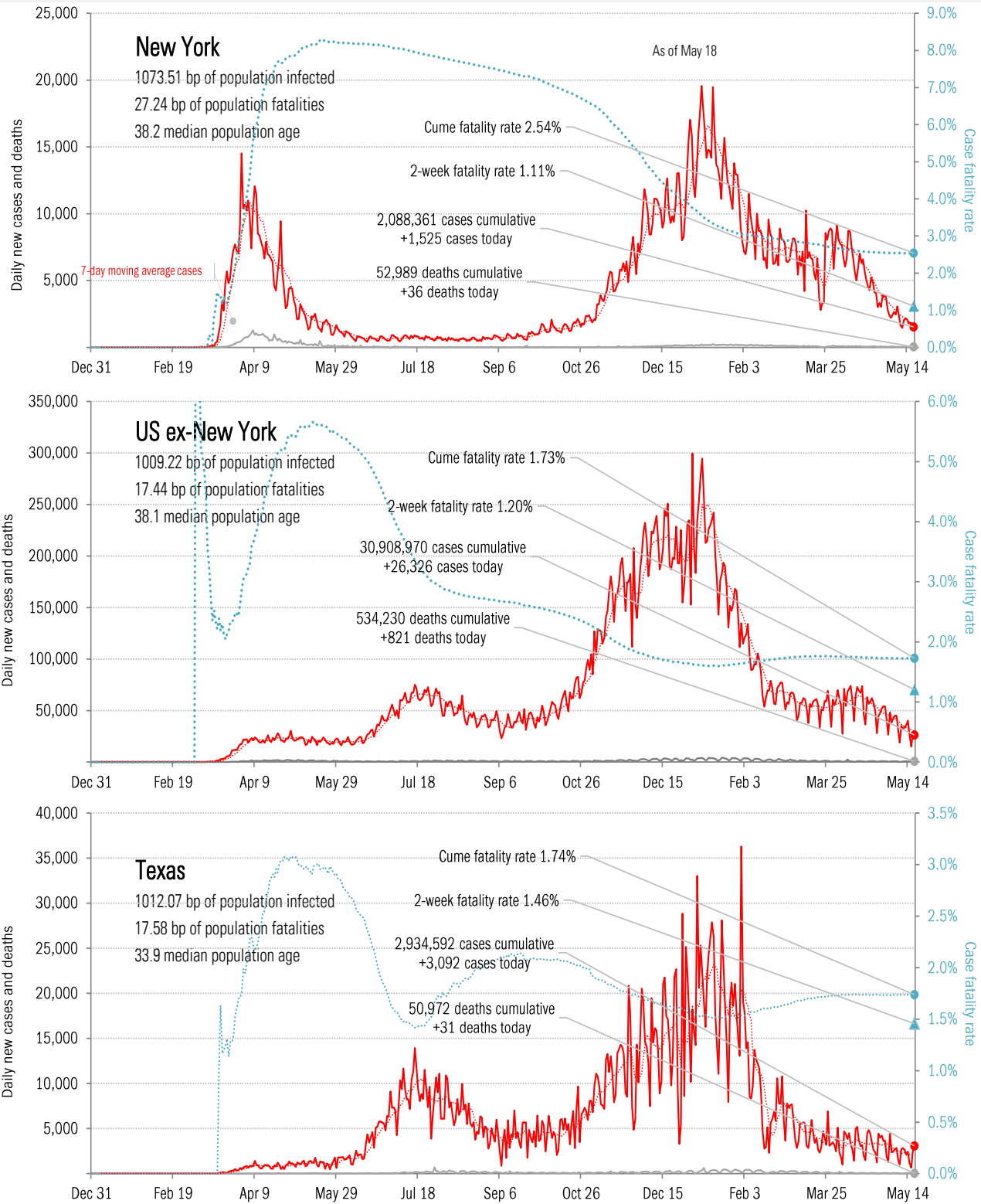
14-day moving average, last 14 days *Most recent value displayed* ● High ● Low

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



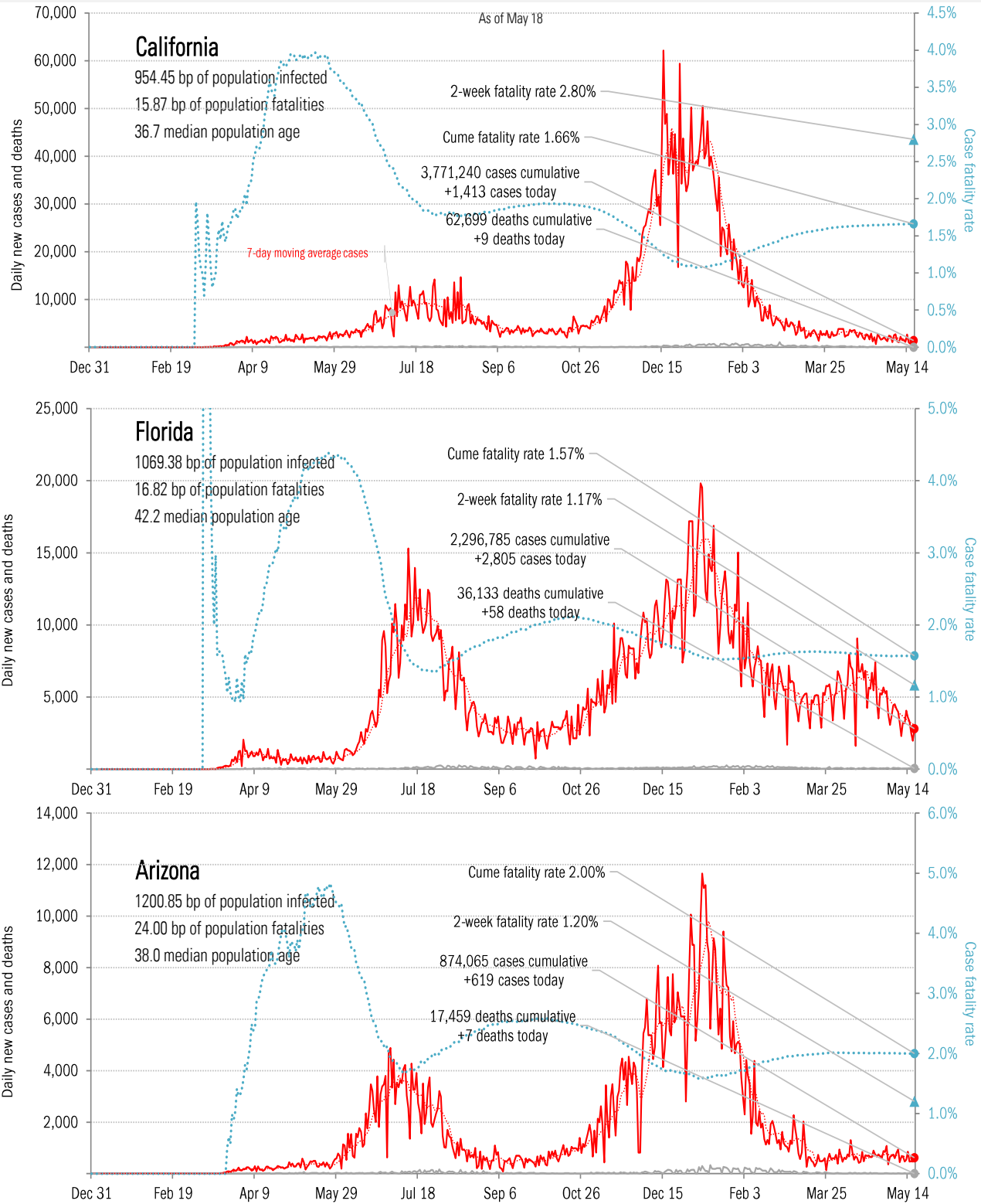
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



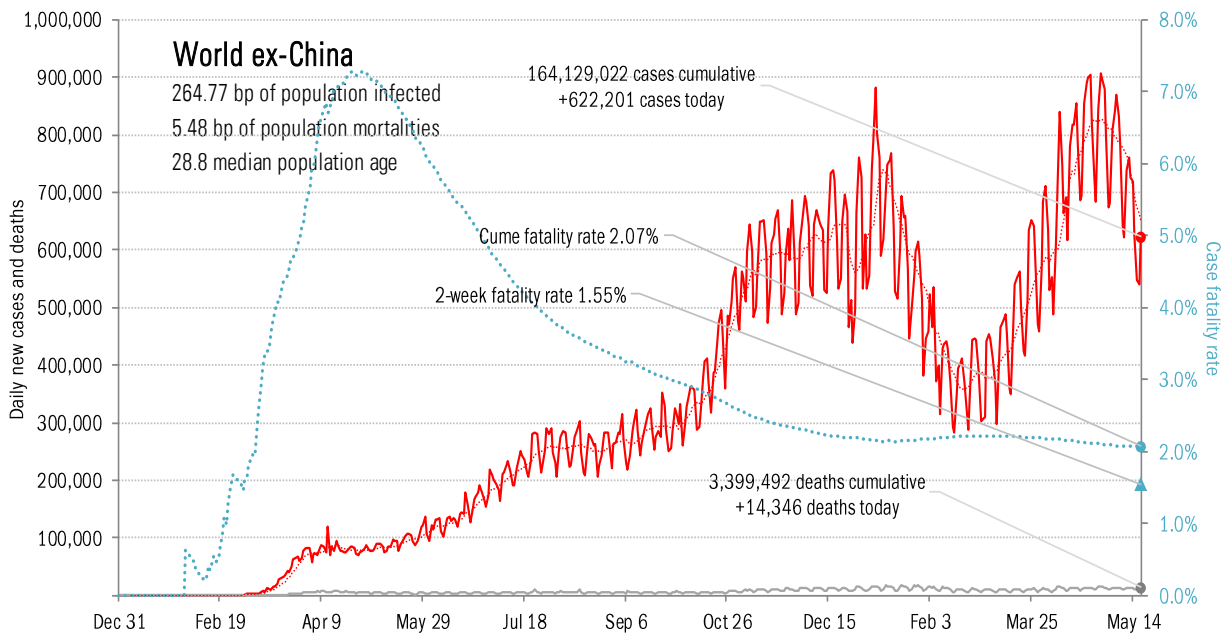
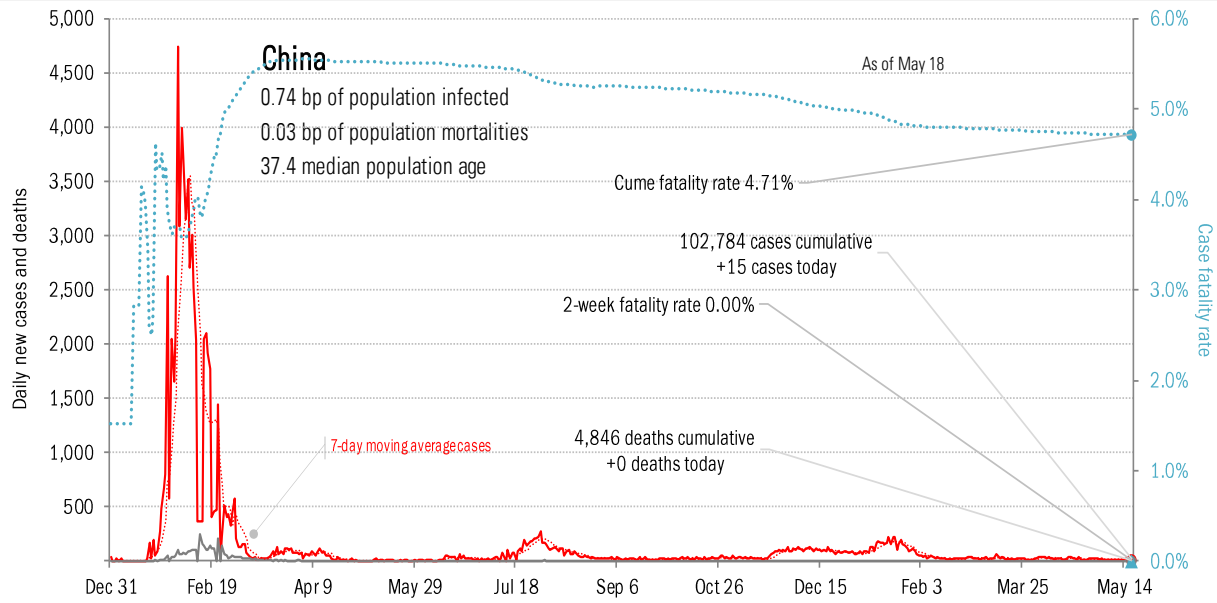
Source: [Johns Hopkins](#), TrendMacro calculations

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



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

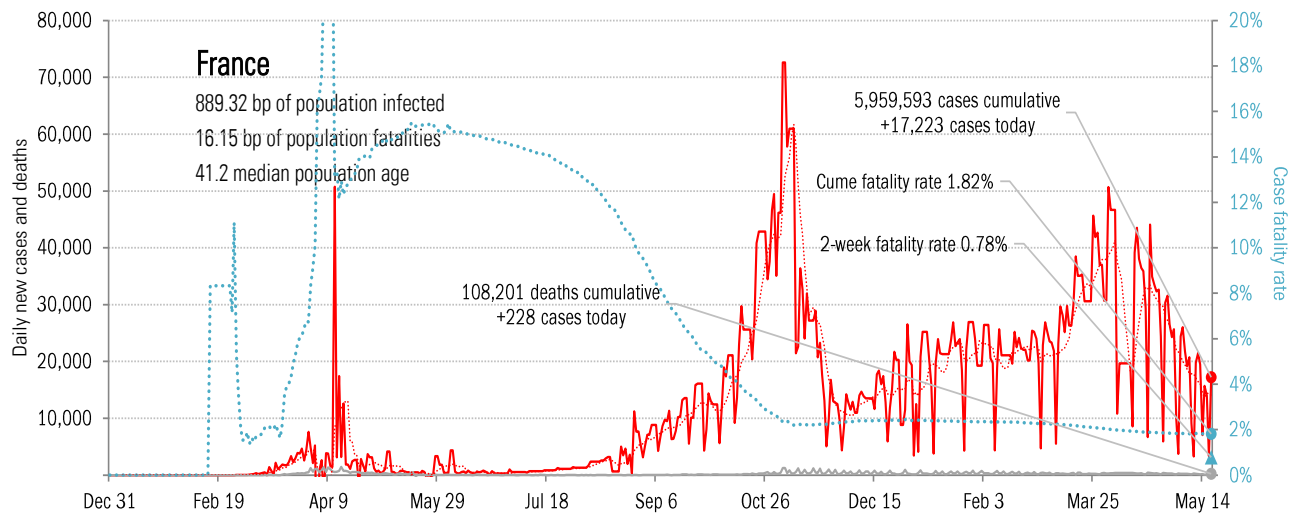
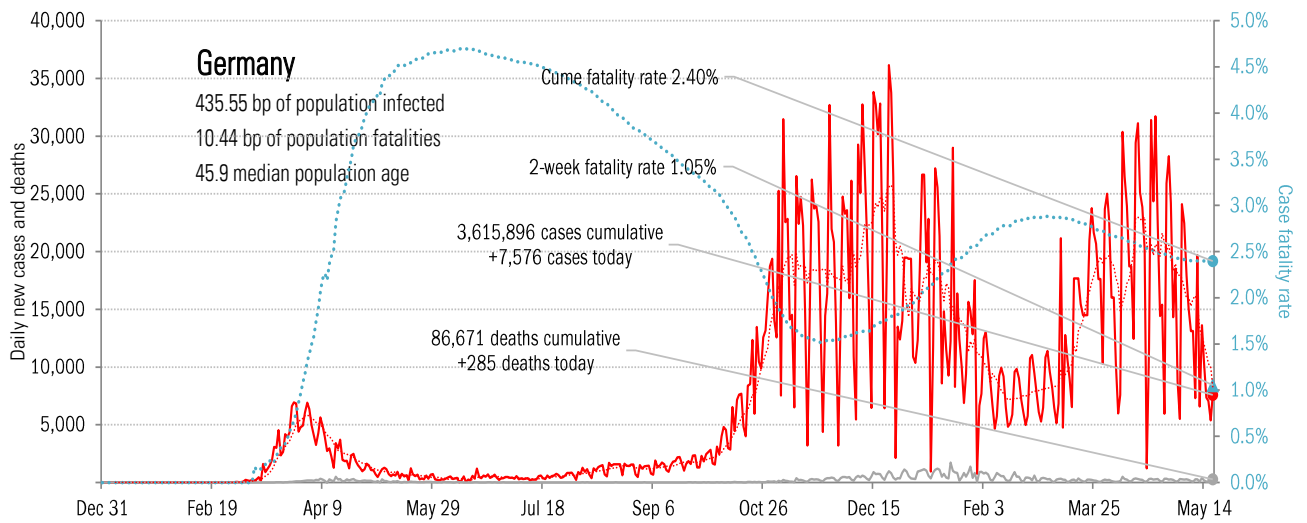
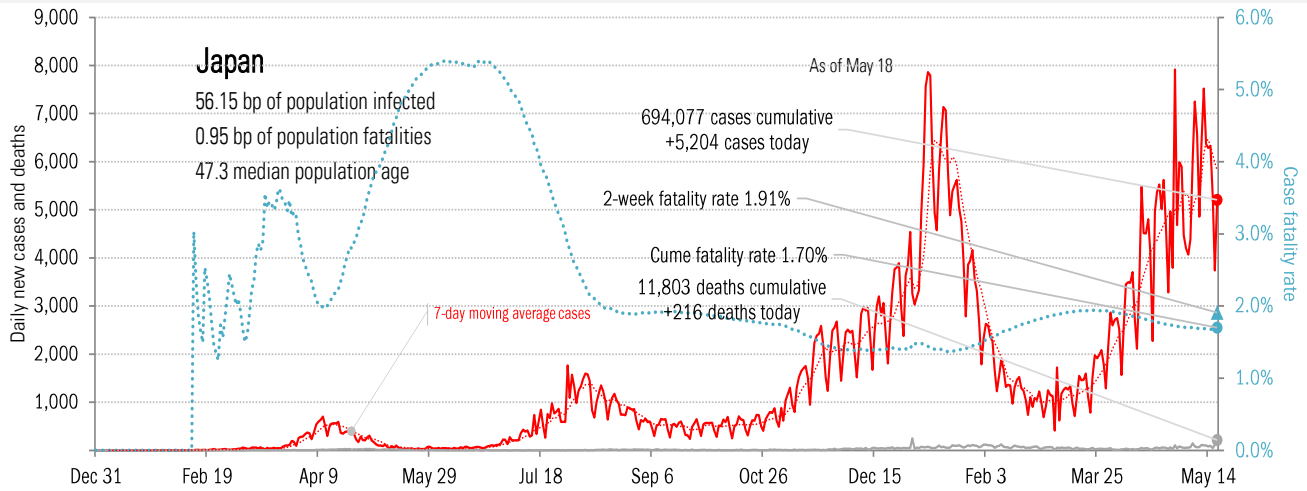
# Patient zero... and then everyone else



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

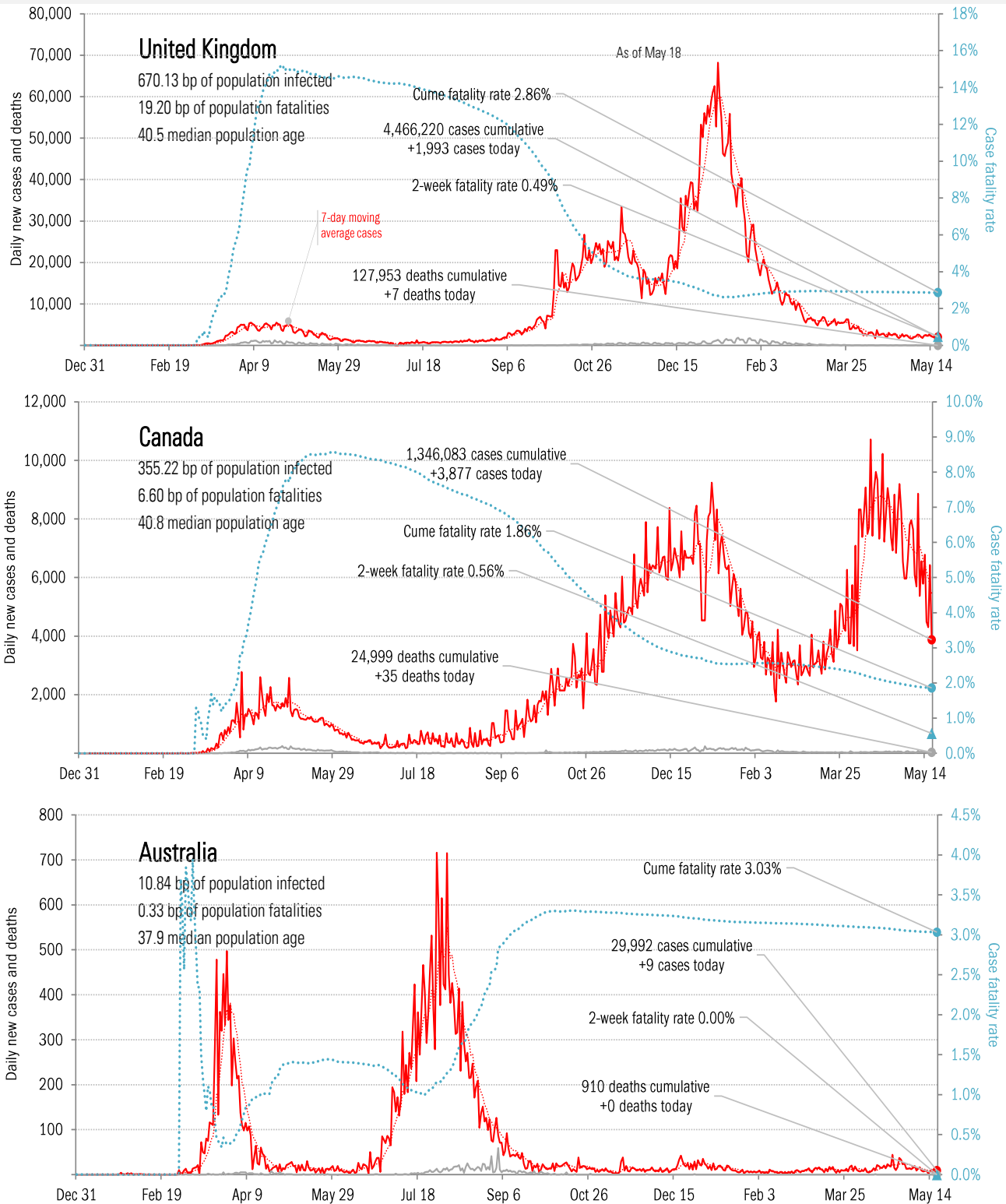


# Impact in the largest economies



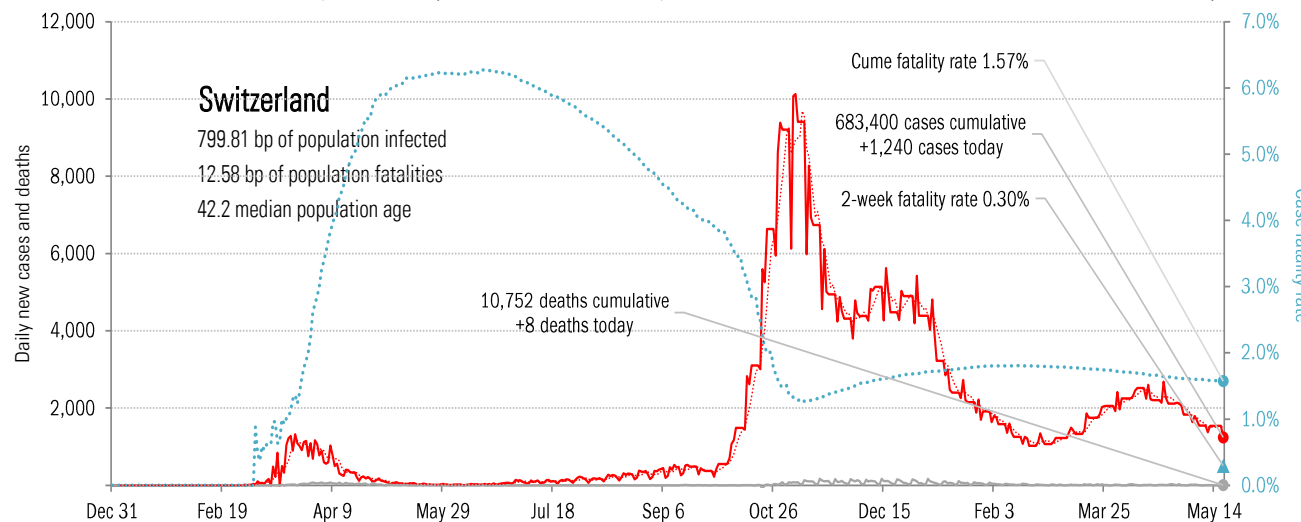
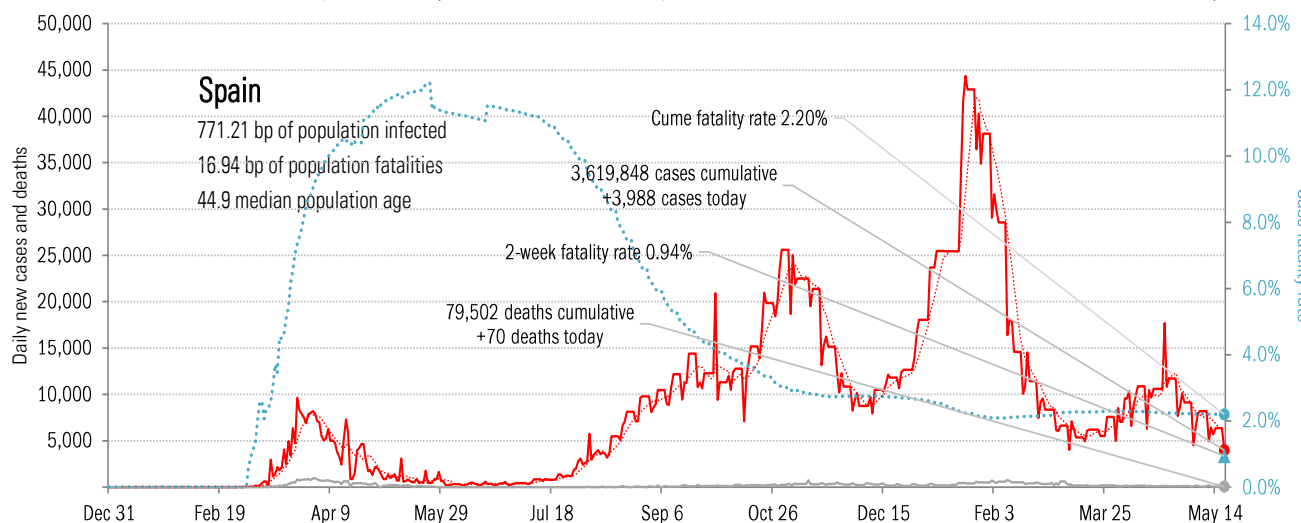
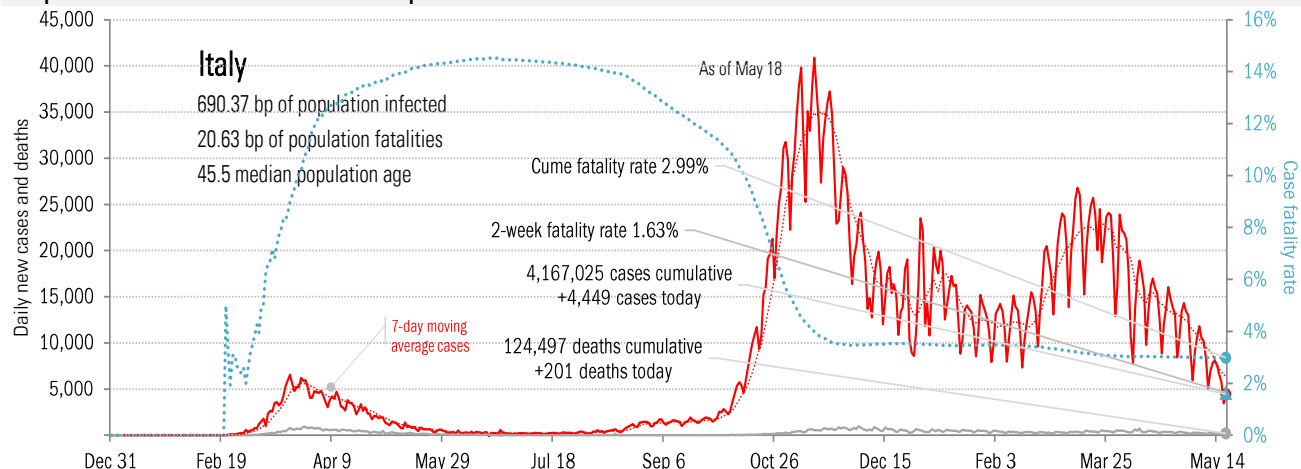
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in The Anglosphere



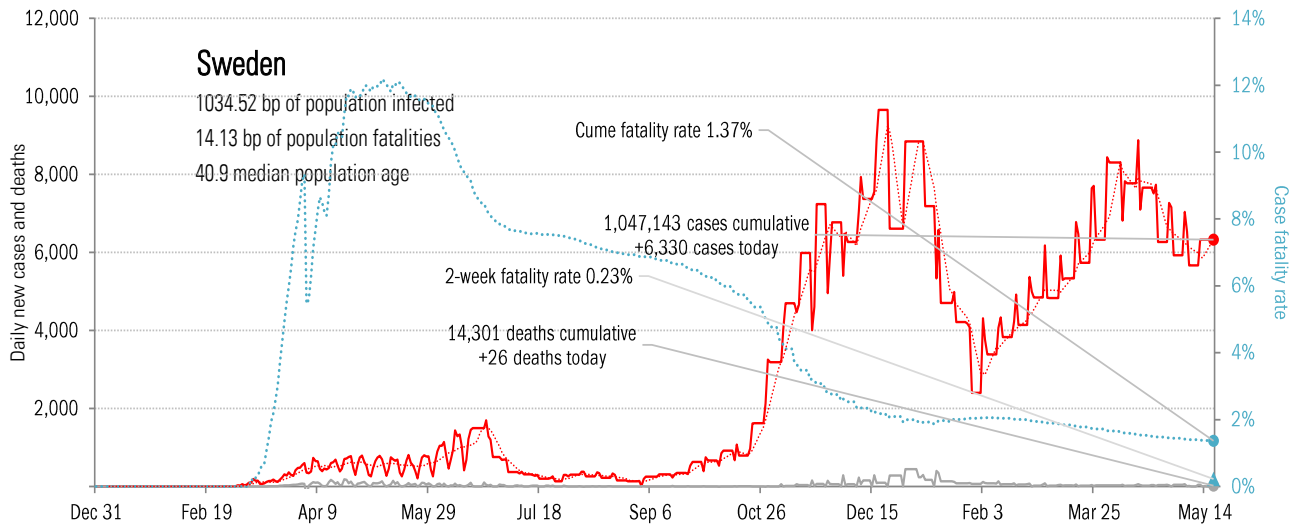
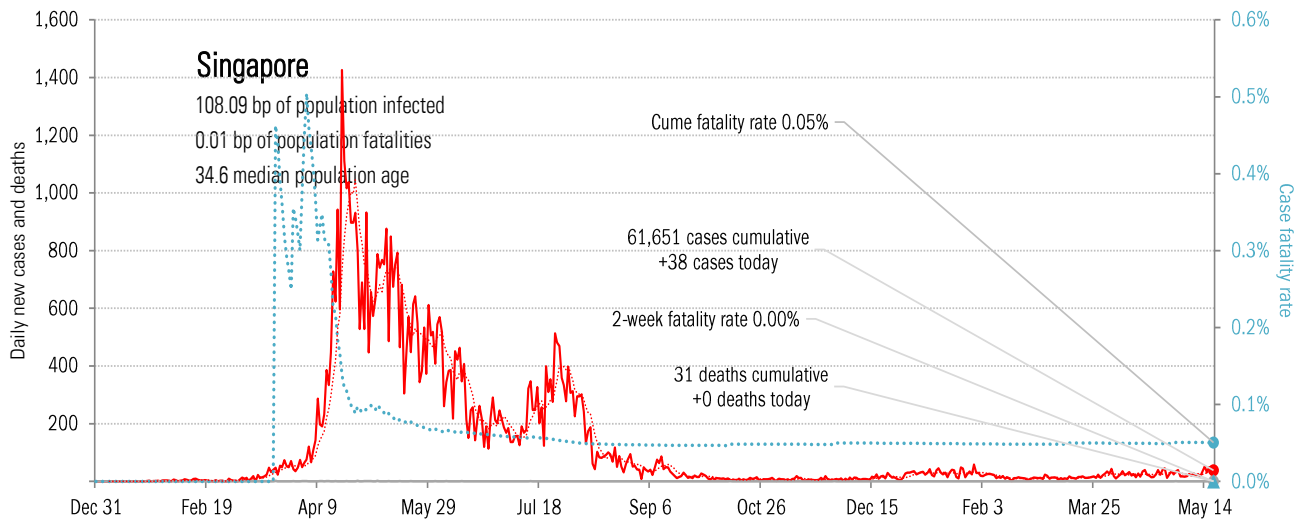
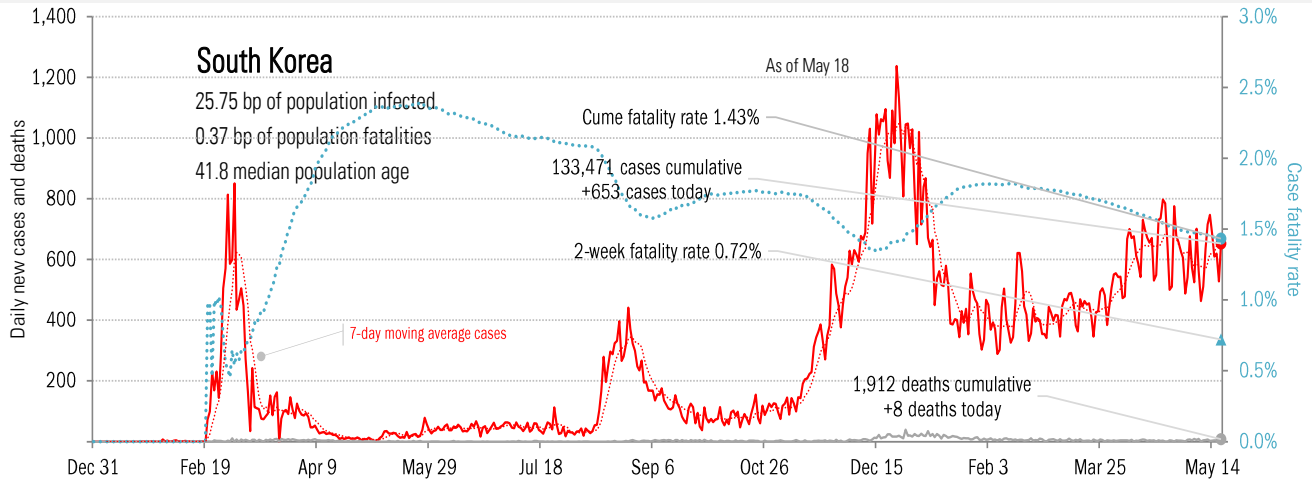
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in continental Europe



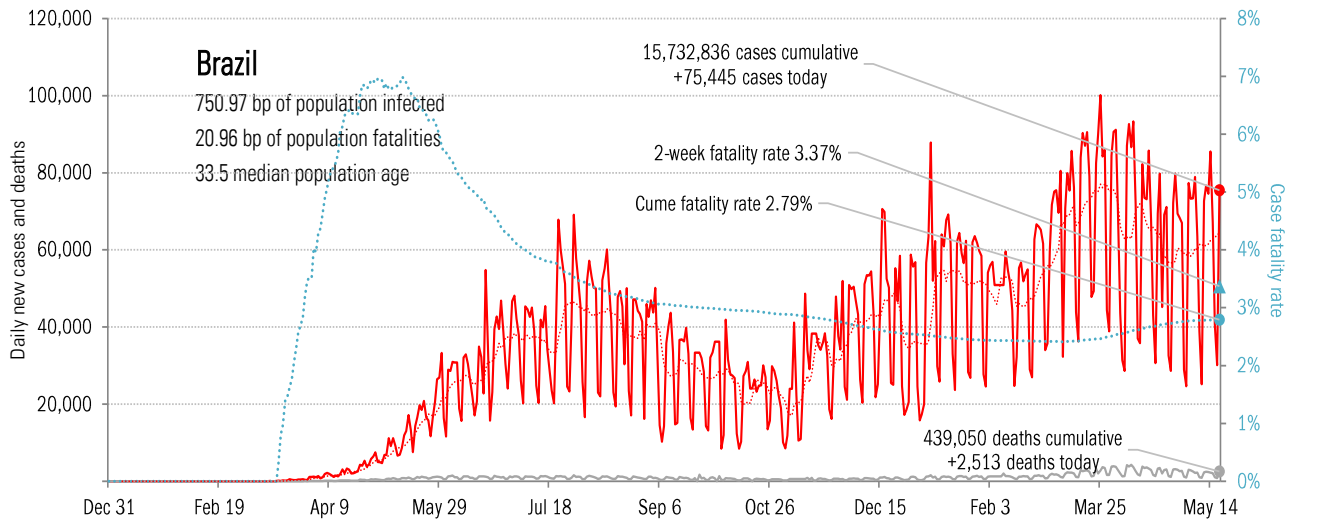
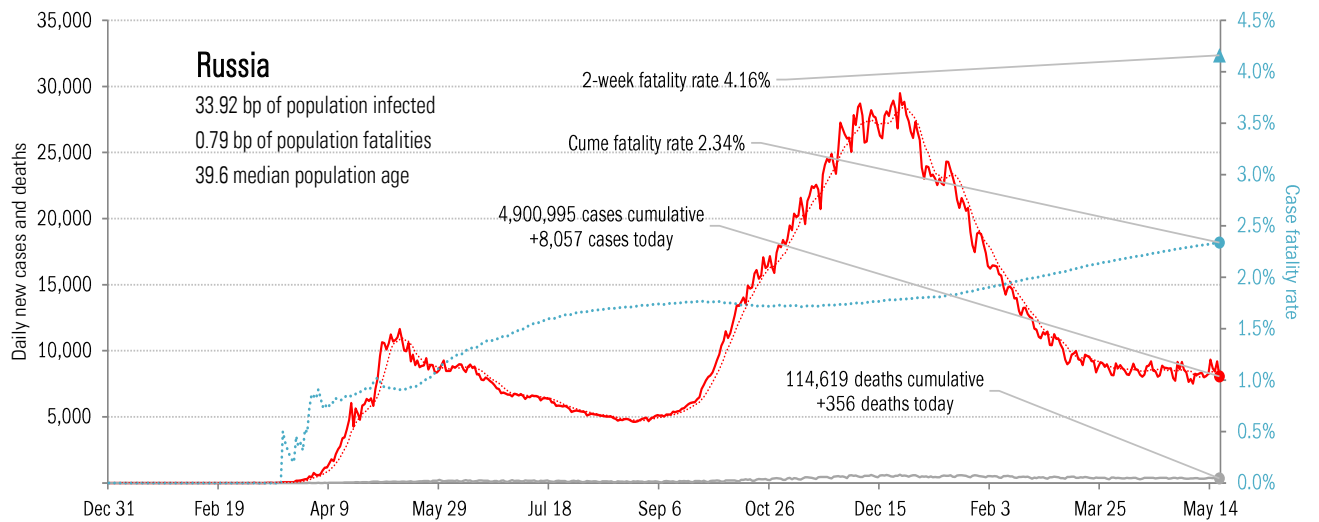
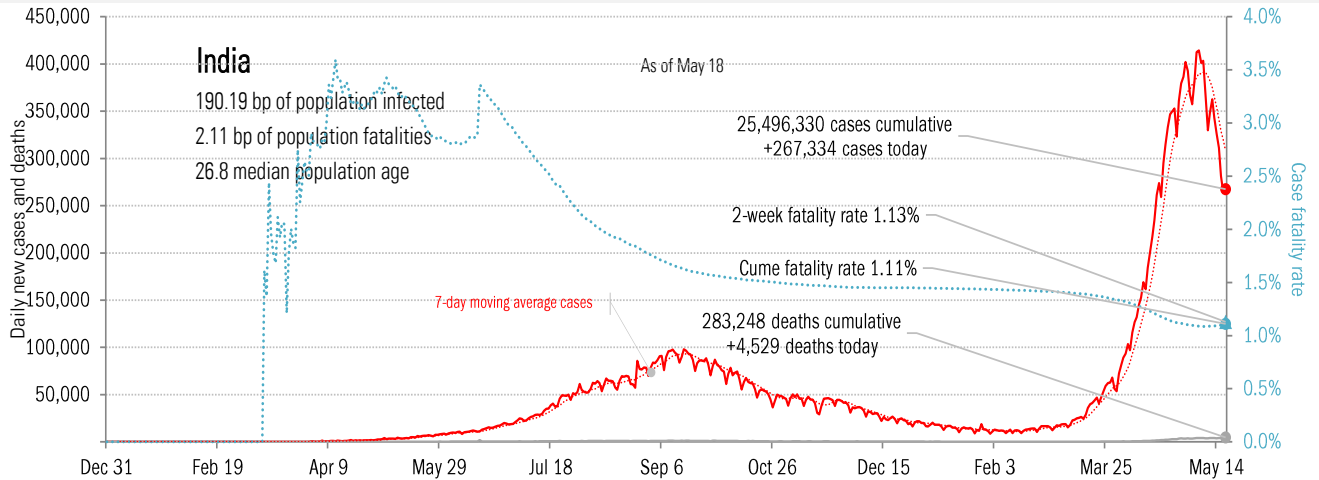
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



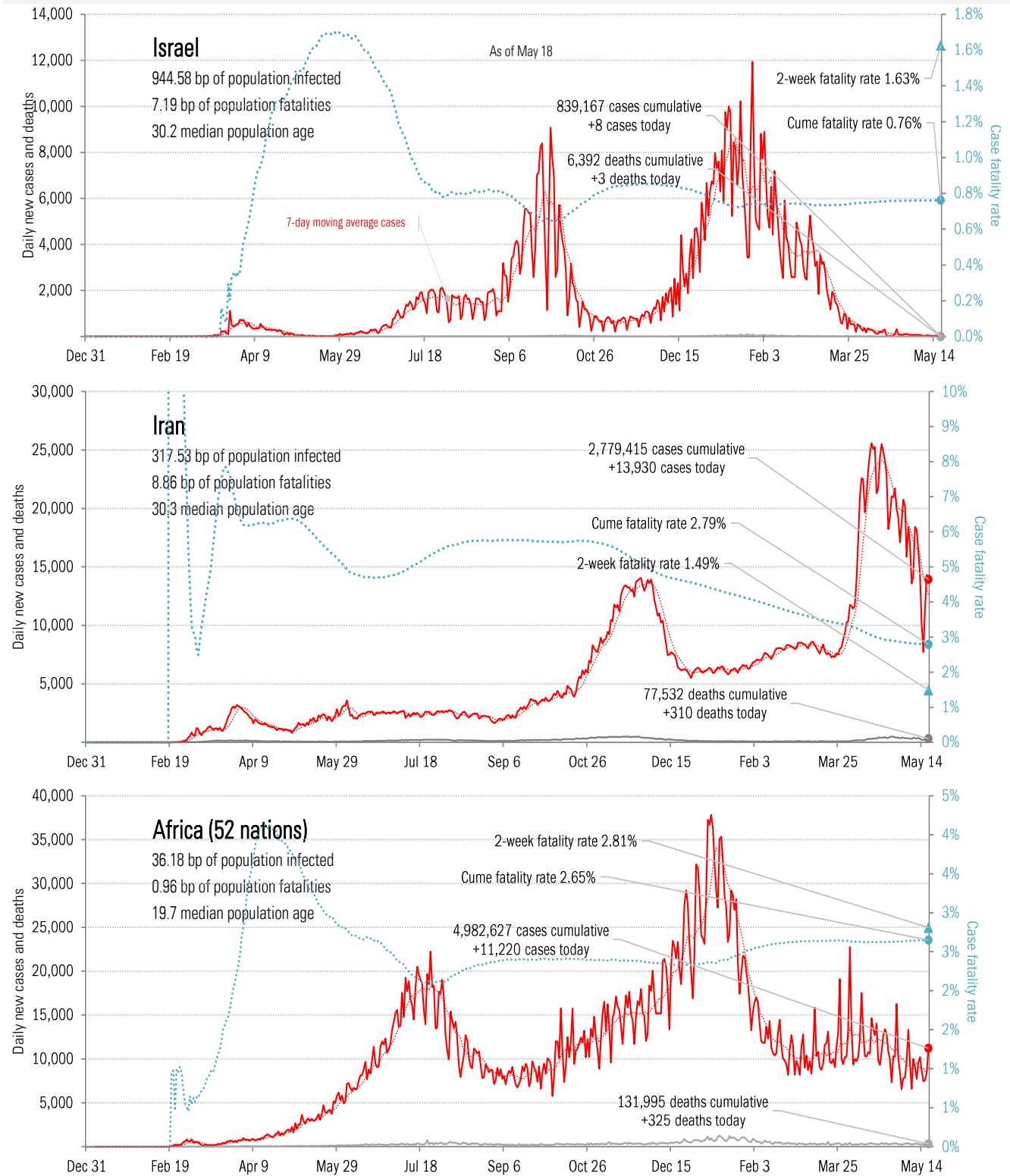
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



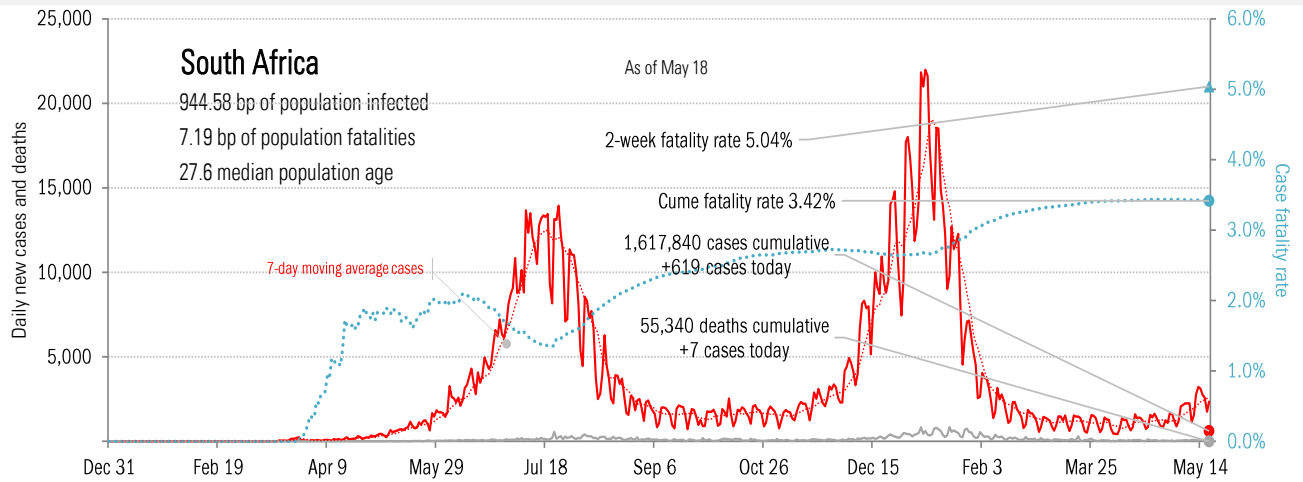
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

## Impact in Africa, continued



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