

## Data Insights: Covid-2019 Monitor

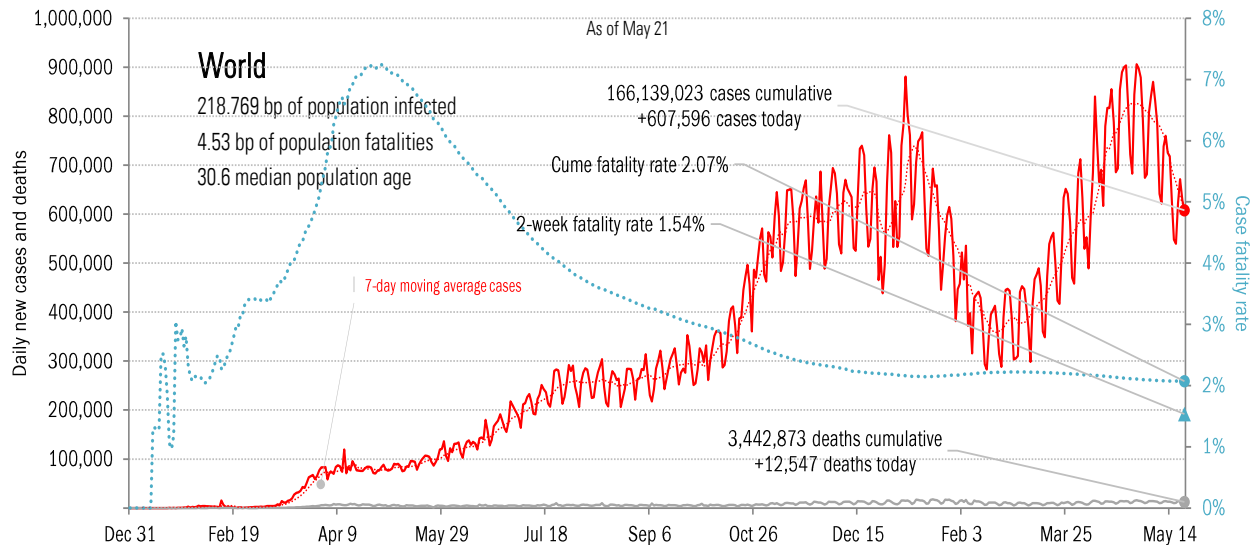
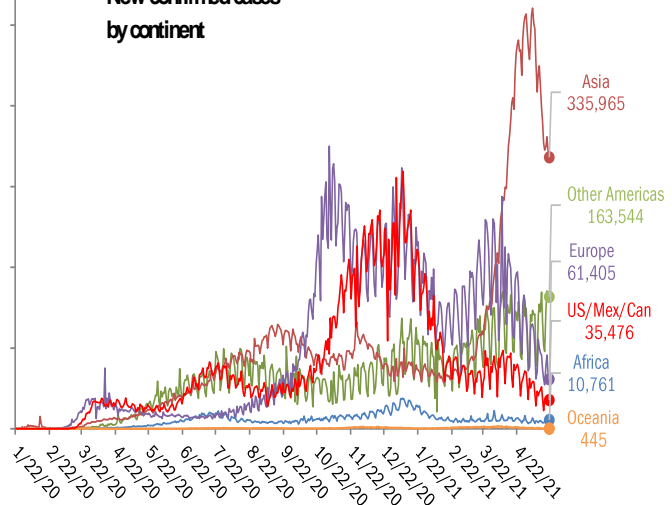
Saturday, May 22, 2021

### The global scorecard

The worst ten countries

New cases		New Deaths	
India	+257,299	India	+4,194
Brazil	+76,855	Brazil	+2,215
Argentina	+35,468	Argentina	+692
United States	+28,341	United States	+684
Colombia	+14,838	Colombia	+486
Iran	+11,250	Russia	+371
Turkey	+9,528	Peru	+219
Russia	+8,811	Italy	+218
Nepal	+8,407	Turkey	+214
Germany	+8,096	Ukraine	+209
<b>+458,893</b>		<b>+9,502</b>	
World	+607,596	World	+12,547
Top ten	76%	Top ten	76%

New confirmed cases by continent



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

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# The US scorecard

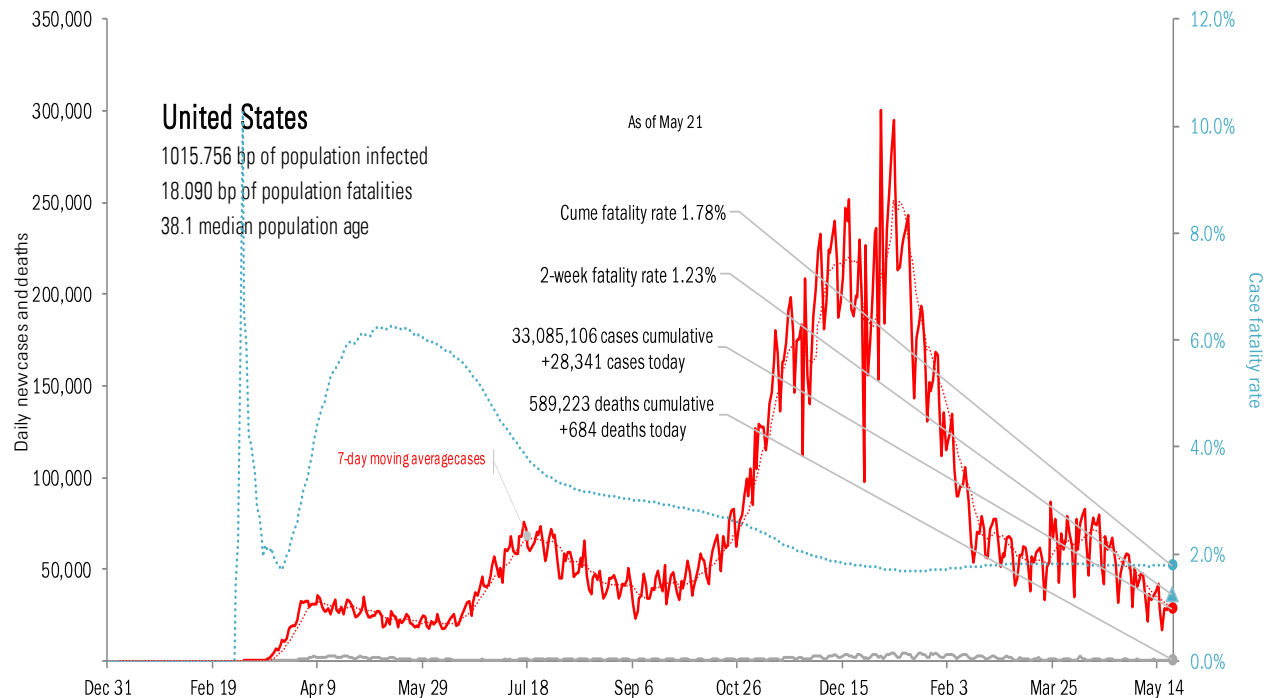
## The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
FL	+2,371		FL	+94		MN	+28		CA	3,775,619		CA	62,862		TX	244,459		RI	92%	MI	23%
PA	+2,065		CH	+81		NV	+11		TX	2,939,697		NY	53,095		CA	233,543		MA	83%	CO	17%
WA	+1,646		GA	+46		WI	+11		FL	2,304,860		TX	51,170		FL	175,123		MD	82%	MD	15%
IL	+1,579		CA	+45		AL	+8		NY	2,092,916		FL	36,441		NY	132,106		PA	81%	MN	15%
NY	+1,574		TX	+42		UT	+7		IL	1,373,370		PA	26,942		GA	104,915		MO	80%	WA	14%
TX	+1,436		MI	+38		NC	+6		PA	1,194,743		NJ	26,070		PA	87,812		CT	79%	ME	14%
MI	+1,259		NY	+25		RI	+5		GA	1,119,012		IL	24,935		CH	83,908		FL	78%	WV	14%
CA	+1,125		AZ	+22		AZ	+4		CH	1,095,746		GA	20,637		IL	78,829		DC	78%	MO	13%
NC	+1,020		IL	+22		ME	+3		NJ	1,013,409		MI	20,051		KY	74,032		GA	78%	ND	12%
CH	+1,004		IN	+22		MS	+3		NC	995,754		CH	19,709		MI	69,526		MN	78%	GA	12%
	+15,079			+437			+86			17,905,126			341,912			1,284,253					
All states	+28,341			+684			-531		All states	33,085,106			589,223			2,302,479		All states	70%		67%
Top ten	53%			64%			-16%		Top ten	54%			58%			56%		Median	72%		9%

Some states not reporting

## Five most improved US states

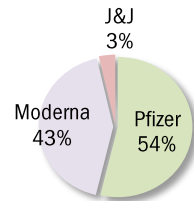
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-667	MI	-44	NM	-156	NH	+281 bp
FL	-522	PA	-32	TX	-71	VT	+131 bp
MI	-311	AL	-29	GA	-70	DC	+77 bp
TX	-211	IL	-27	CA	-36	ME	+63 bp
CH	-204	VA	-14	KS	-28	MA	+61 bp



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	367,290,495				+2.982 million	US	38.2%	48.2%
Doses administered	290,487,683				+2.237 million	UK	31.9%	55.3%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	14.2%	32.7%
Total population	165,672,904	50%	131,582,478	39%	+1.191 million	Spain	16.8%	35.0%
Age 12 to 17	4,383,308	17%	1,839,104	7%	+0.068 million	Germany	13.5%	39.7%
Age 18 to 64	113,203,842	56%	88,065,018	43%	+0.981 million	Italy	16.1%	34.0%
Age 65 and over	48,110,034	88%	41,669,768	76%	+0.141 million	Australia	2.1%	5.2%
						Israel	59.1%	62.9%
						Canada	4.2%	49.7%
						Japan	2.0%	4.4%
						Africa	0.5%	1.4%
						India	3.0%	10.6%
						Brazil	8.6%	18.0%



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 **85 days** by Aug 13, 2021  
 62.0% of population >18 immunized  
 13.9% previously tested positive  
**76.0%** vs 60% adult herd immunity\*

Global data differs from sources, timing

AK
58.7%
44.7%
38.3%

ME
67.7%
60.8%
51.3%

WI	VT	NH
52.5%	72.6%	63.3%
49.2%	67.5%	63.8%
42.6%	50.3%	40.9%

WA	ID	MT	ND	MN	IL	MI	NY	MA
59.3%	46.6%	53.0%	46.7%	56.2%	57.0%	57.6%	59.5%	67.9%
53.5%	36.5%	43.9%	41.1%	52.3%	52.1%	46.9%	53.3%	63.8%
42.3%	31.5%	37.0%	35.6%	43.3%	37.8%	39.9%	44.3%	49.0%

OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
61.6%	47.9%	46.1%	55.8%	53.5%	49.1%	52.5%	60.9%	63.3%	65.3%	70.6%
52.0%	43.6%	36.1%	47.0%	47.6%	40.2%	44.0%	56.1%	57.7%	60.7%	58.3%
40.9%	34.8%	30.9%	41.5%	41.9%	33.6%	38.6%	40.9%	46.2%	50.3%	48.9%

CA	UT	CO	NE	MO	KY	WV	VA	MD	DE
61.4%	49.6%	59.9%	53.5%	49.6%	50.2%	52.9%	58.3%	65.9%	63.5%
54.5%	43.8%	51.4%	46.5%	40.8%	44.5%	39.0%	52.9%	54.7%	51.7%
40.3%	30.9%	42.3%	40.4%	33.2%	37.0%	33.3%	42.3%	44.3%	40.3%

AZ	NM	KS	AR	TN	NC	SC	DC
55.2%	56.1%	53.0%	48.3%	46.1%	55.4%	51.0%	74.9%
44.5%	55.5%	45.3%	38.2%	37.9%	42.1%	39.5%	55.1%
34.3%	45.5%	37.0%	29.9%	30.5%	34.9%	32.4%	42.9%

OK	LA	MS	AL	GA
51.7%	43.8%	45.7%	48.1%	51.9%
40.6%	34.7%	33.2%	35.2%	38.3%
32.9%	30.2%	26.5%	28.3%	30.2%

HI	TX	FL	PR
64.8%	53.8%	57.5%	62.4%
64.0%	42.3%	46.9%	47.0%
45.7%	33.6%	36.8%	33.2%

As of May 21

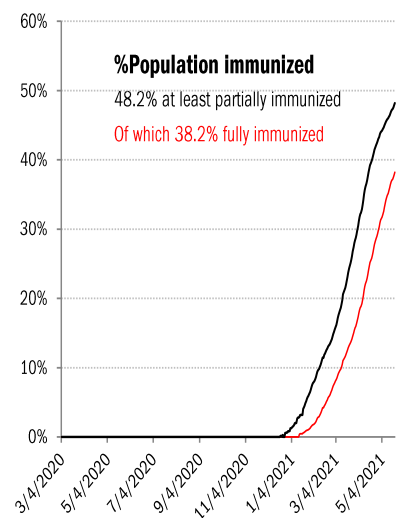
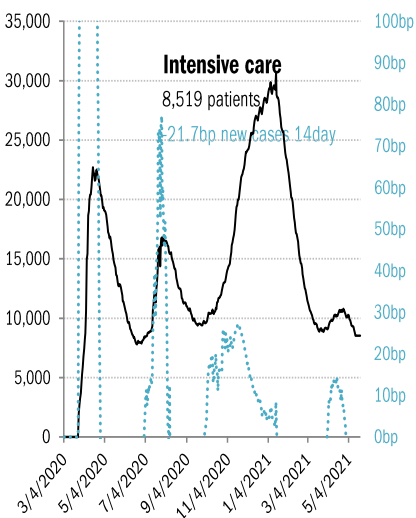
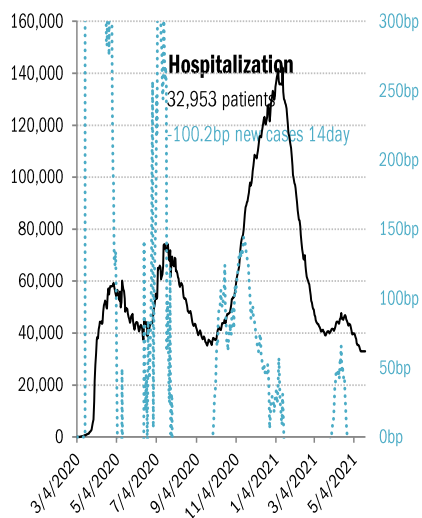
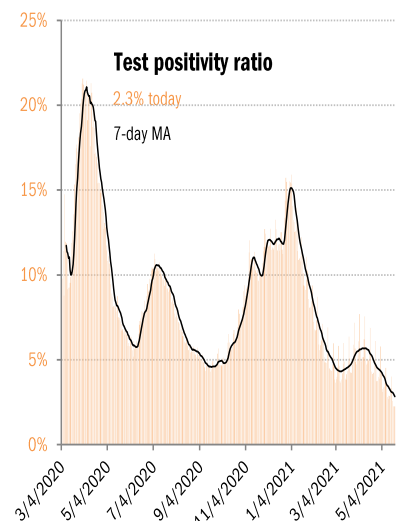
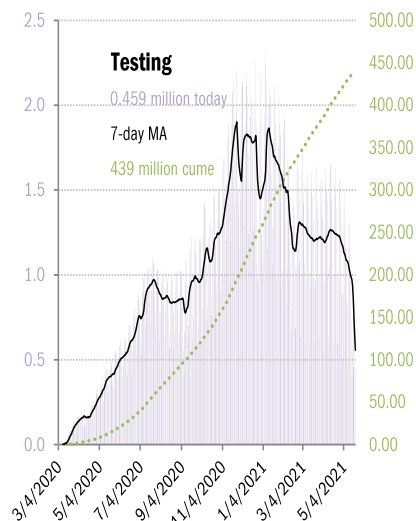
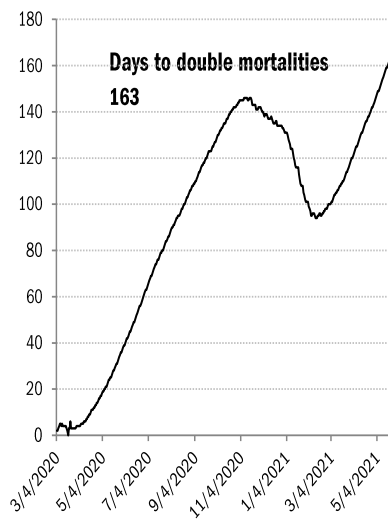
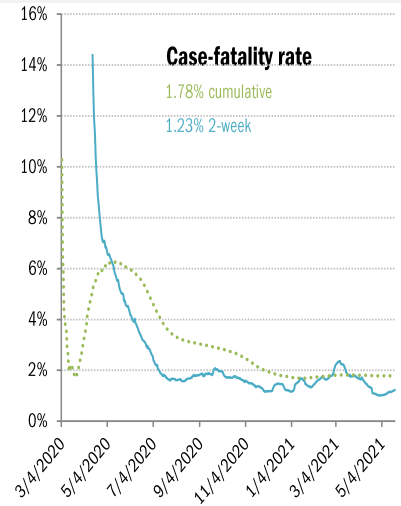
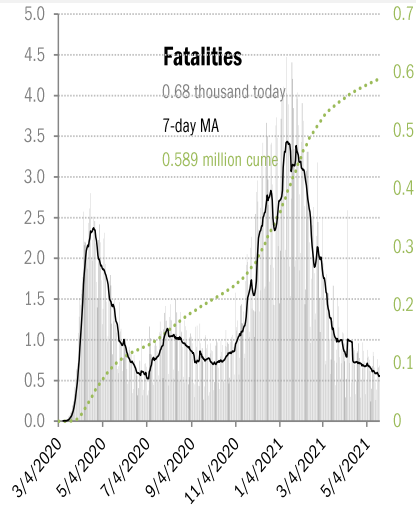
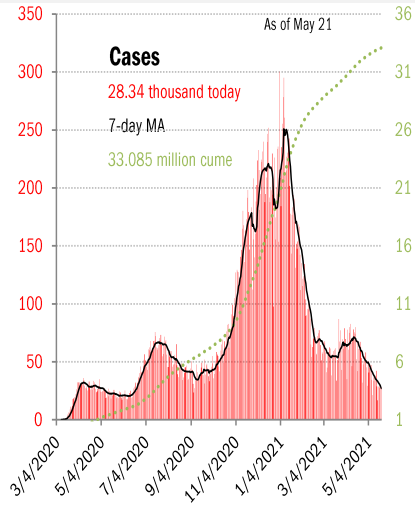
\* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.

\*\* 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

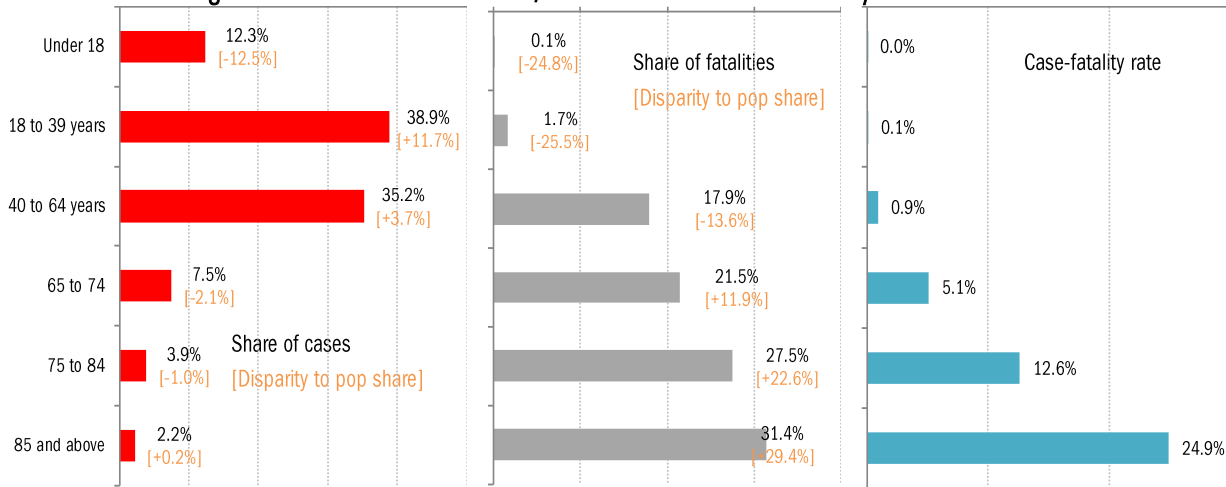
# US deep-dive

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

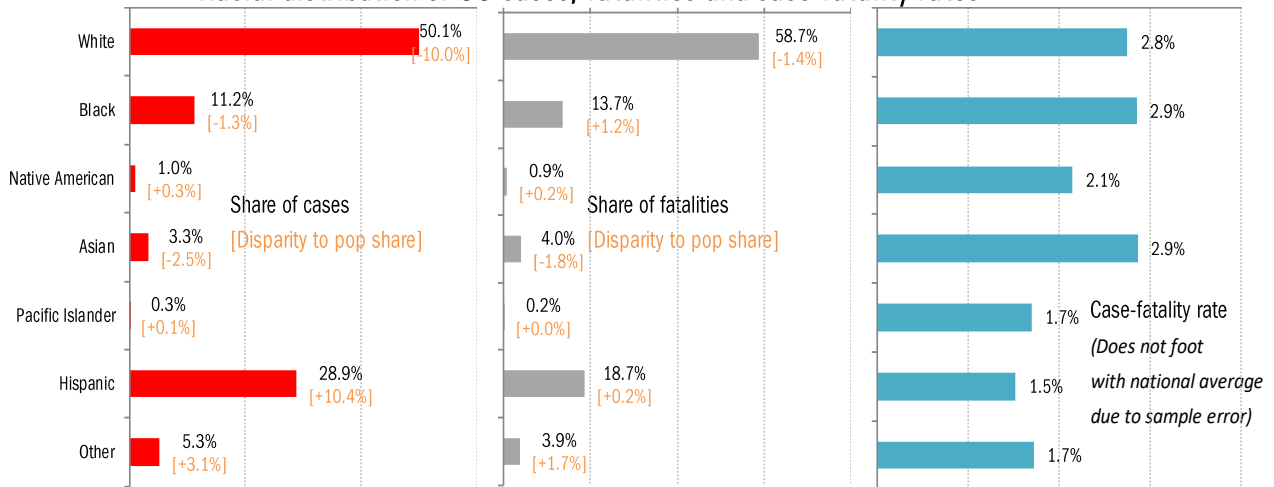


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

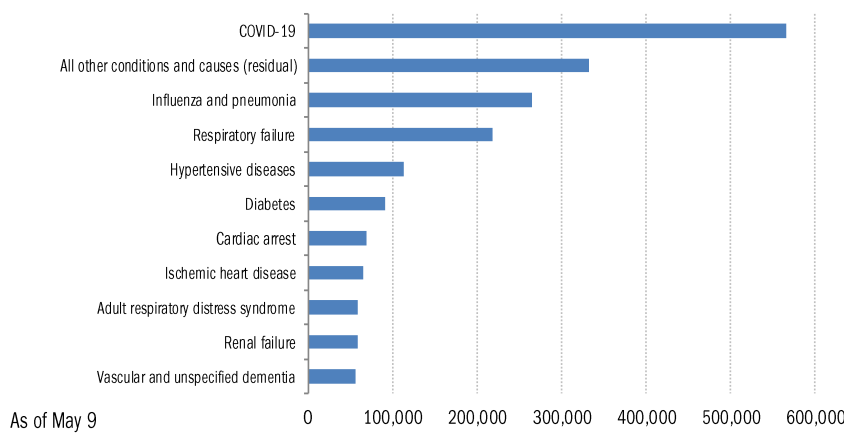


Racial distribution of US cases, fatalities and case-fatality rates



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

### [The Latest Coronavirus Comes From Dogs](#)

Emily Anthes  
*New York Times*  
May 20, 2021

### [Buoyed by Federal Covid Aid, Big Hospital Chains Buy Up Competitors](#)

Reed Abelson  
*New York Times*  
May 21, 2021

### [PM announces plan for 'Global Pandemic Radar'](#)

*Prime Minister's Office*  
May 21, 2021

### [New coronavirus discovered—and dogs are spreading it](#)

Joseph Guzman  
*Changing America*  
May 20, 2021

### [Circulating SARS-CoV-2 Vaccine Antigen Detected in the Plasma of mRNA-1273 Vaccine Recipients](#)

Alana F Ogata  
*Clinical Infectious Diseases*  
May 20, 2021

### [EU Backs Vaccine Certificates, Opening Beaches for Summer](#)

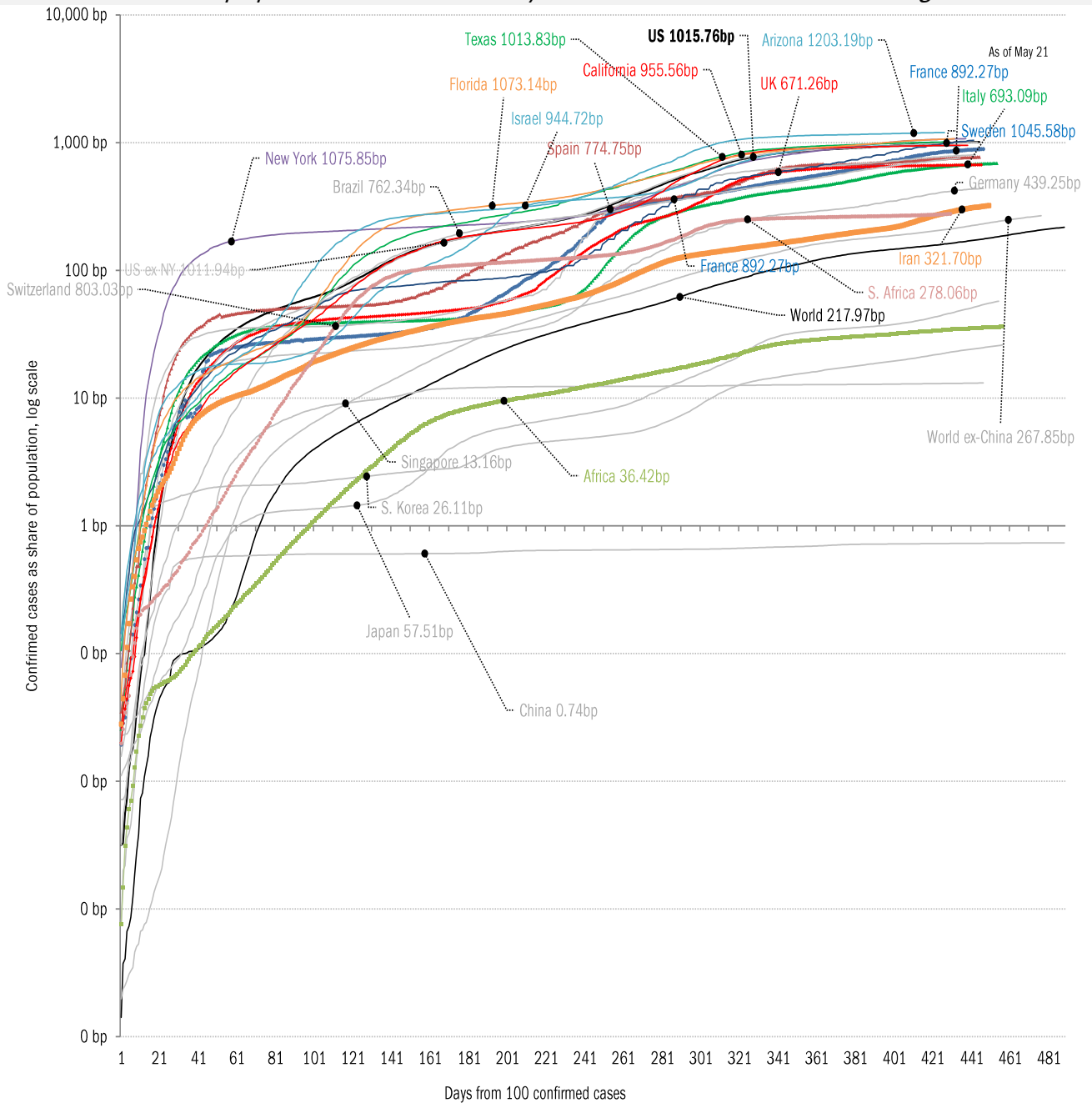
Nikos Chrysoloras  
*Bloomberg*  
May 20, 2021

## Meme of the day



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

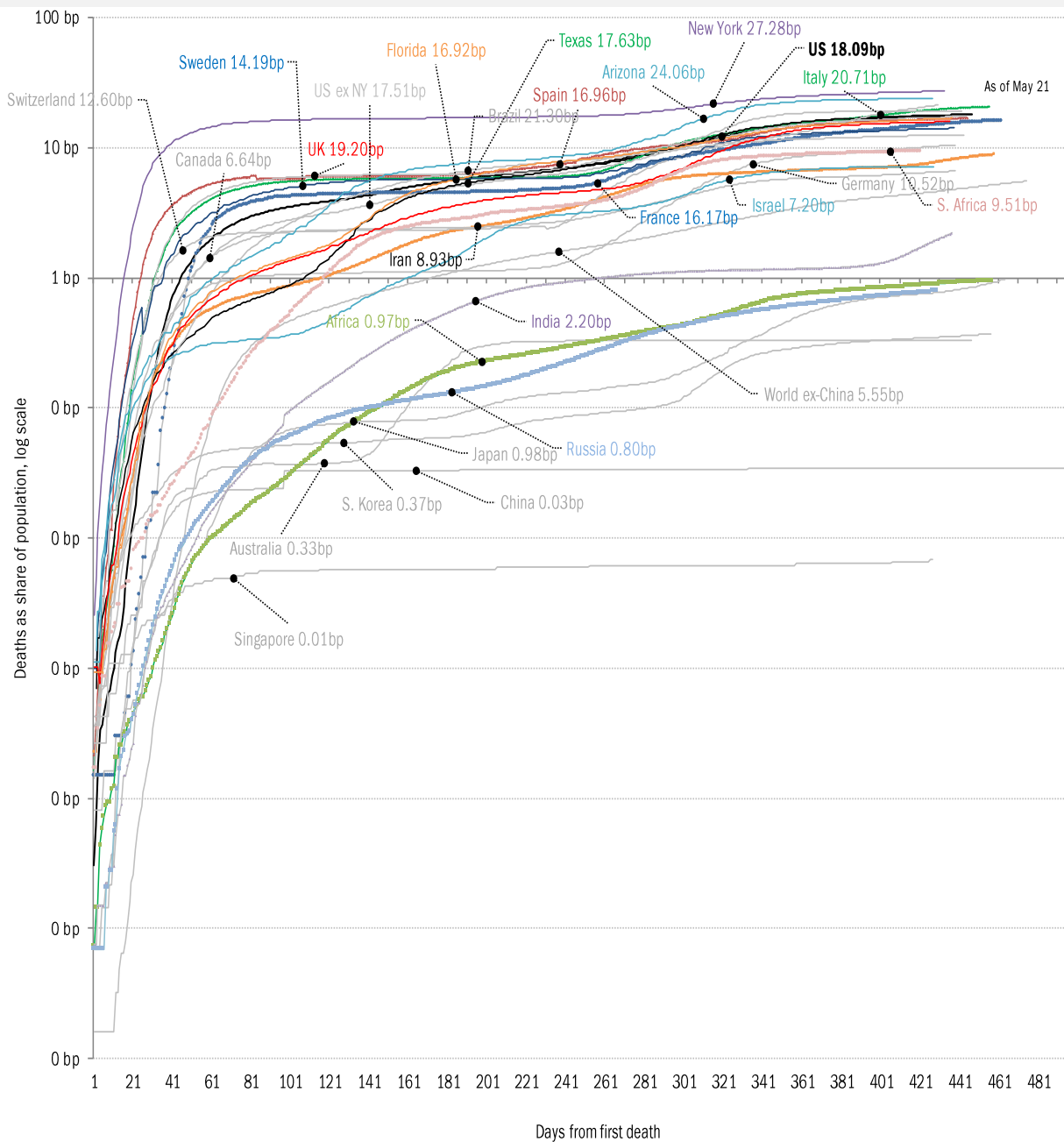
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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

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

*Share of deceased population from day of first fatality*



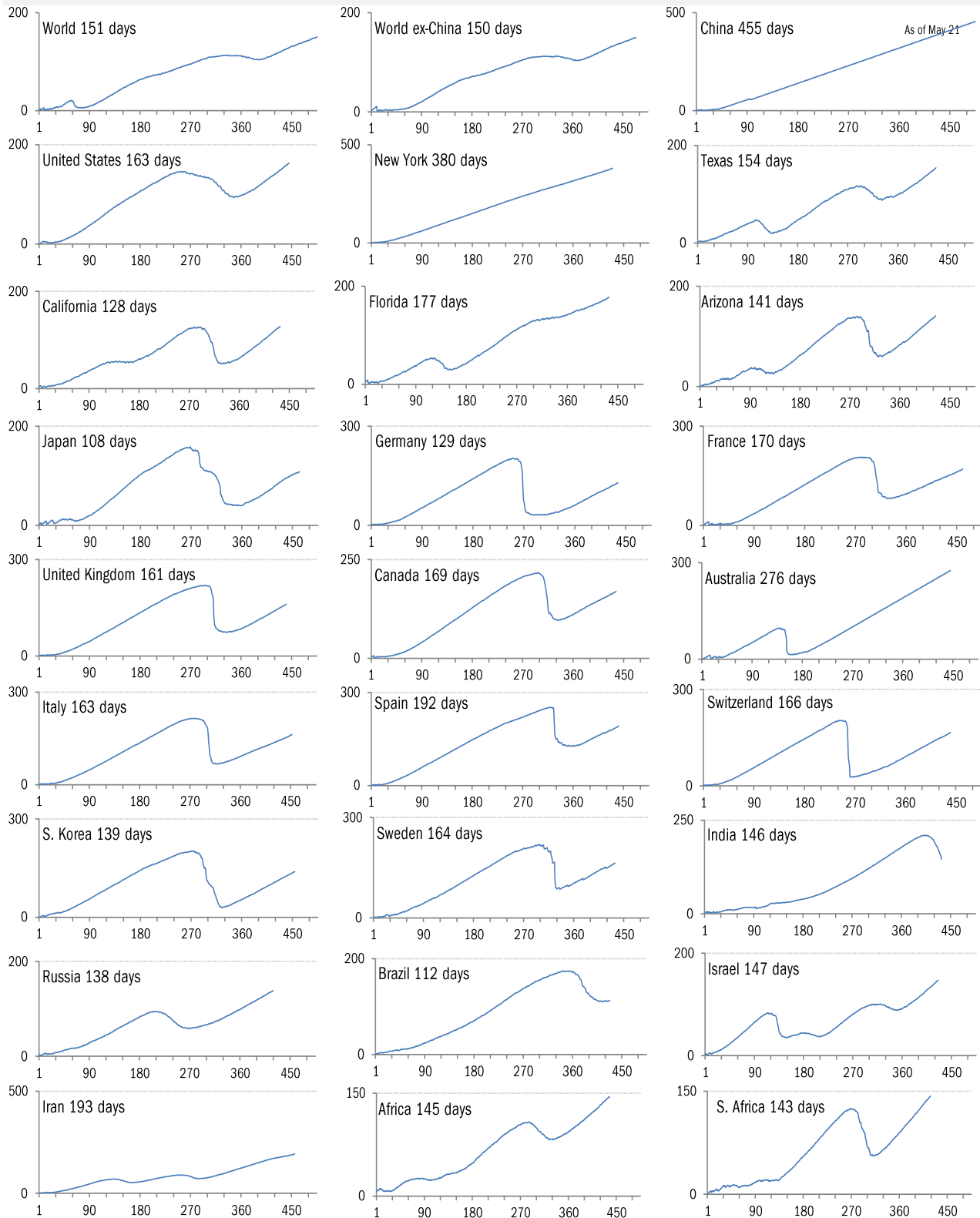
Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations



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

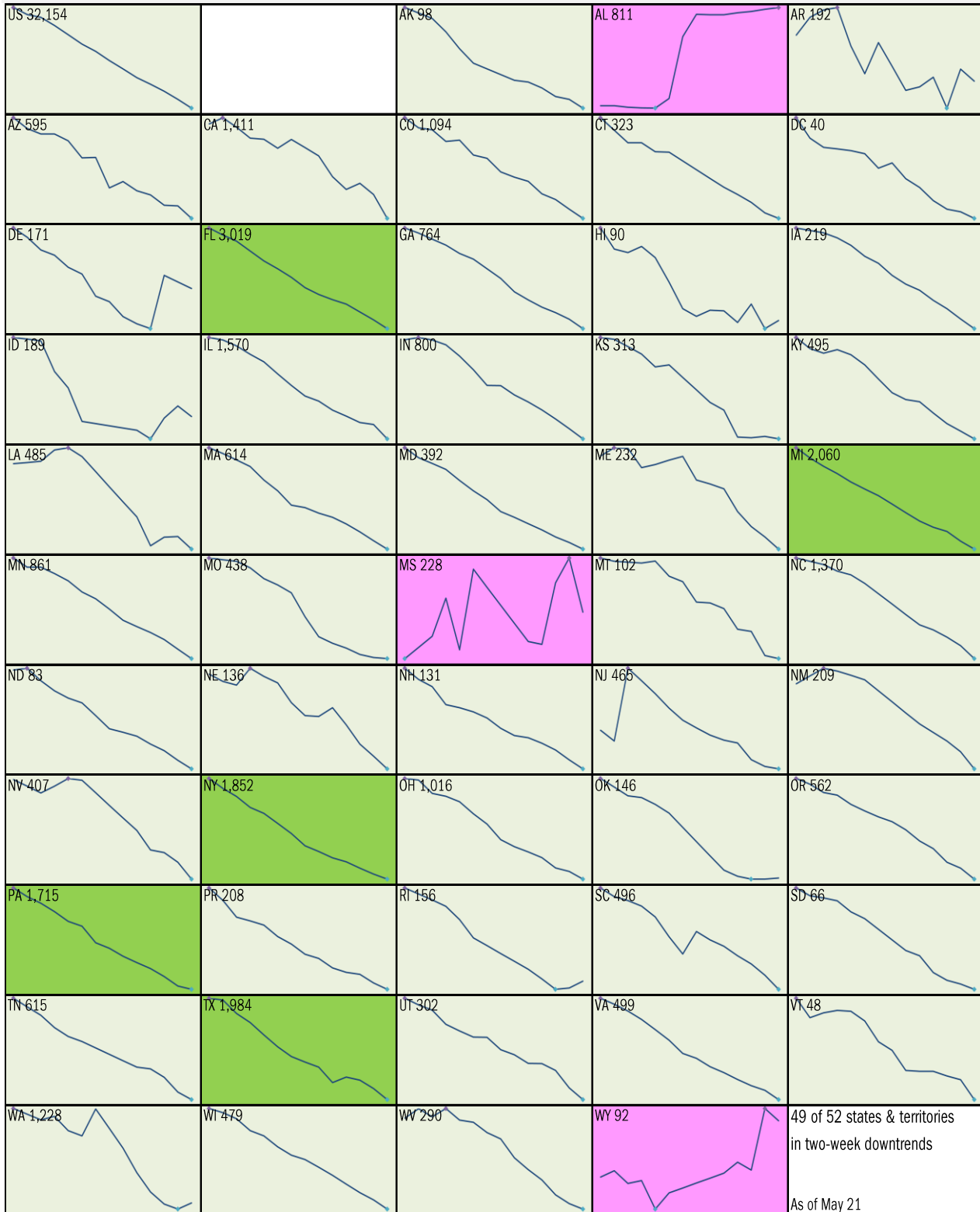
Vertical: days to double deaths Horizontal: days from first death

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

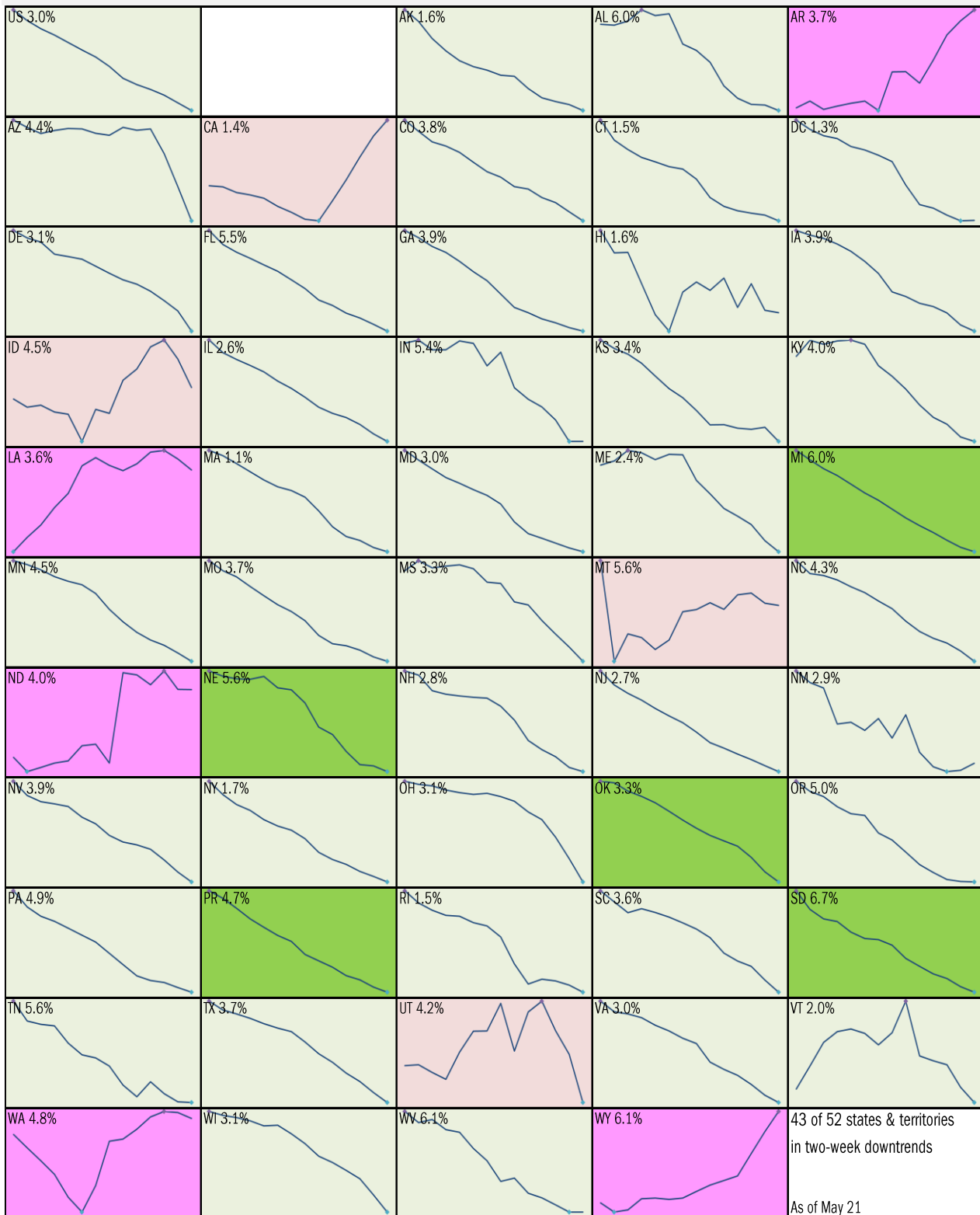


Source: [Johns Hopkins](#), TrendMacro calculations

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

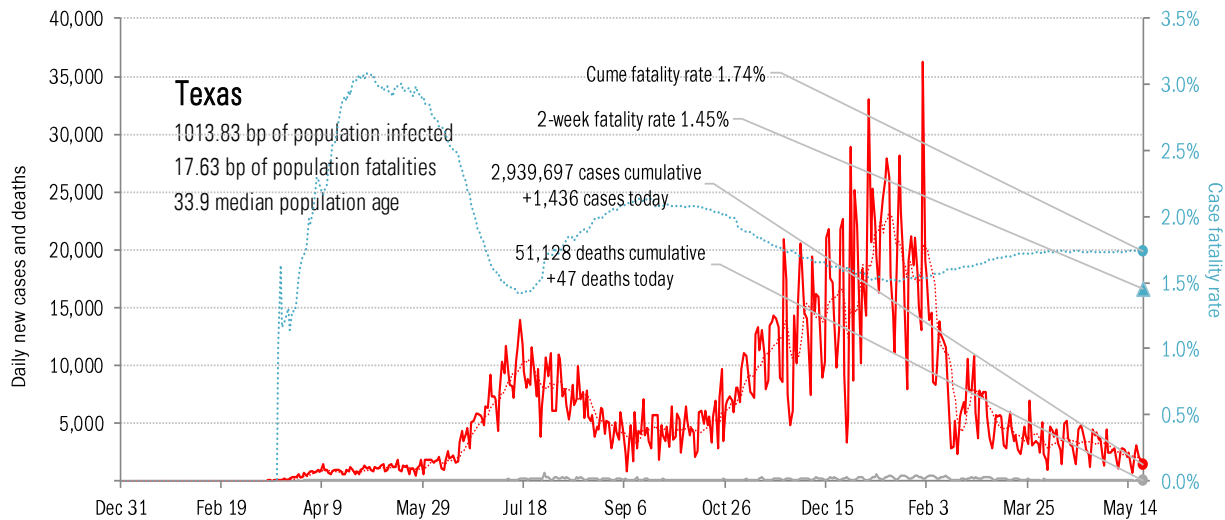
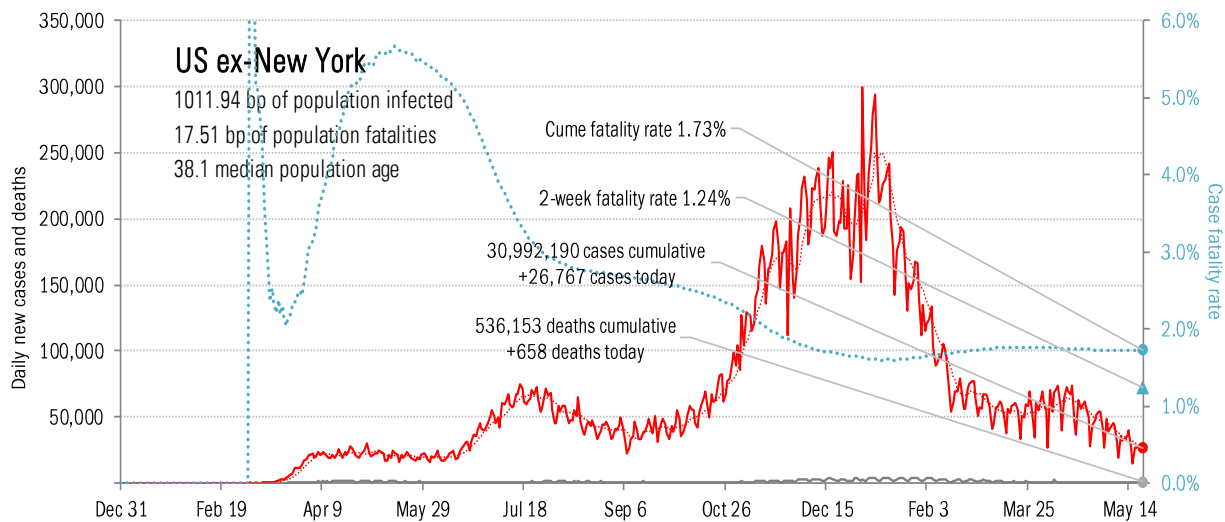
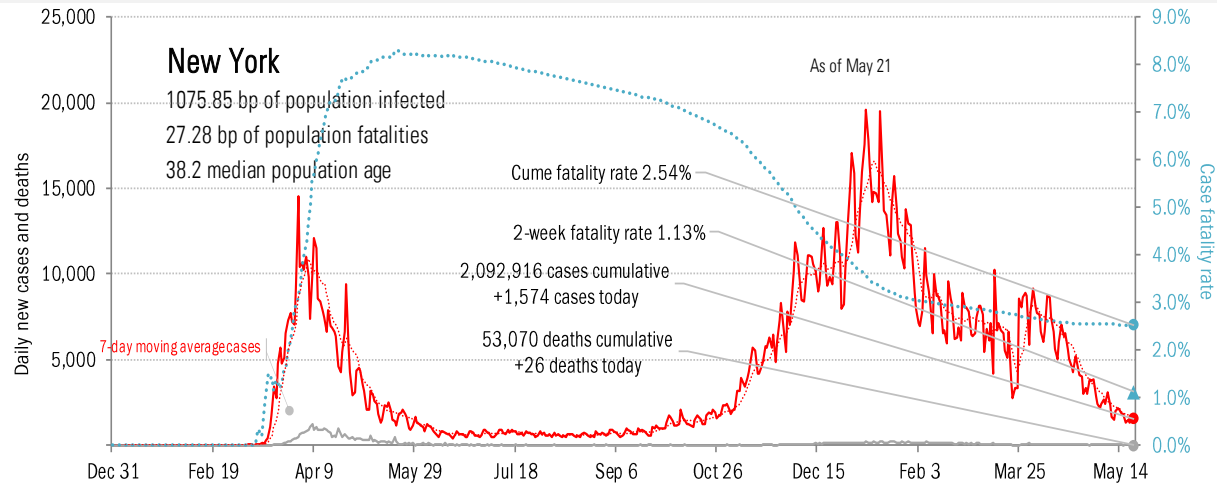
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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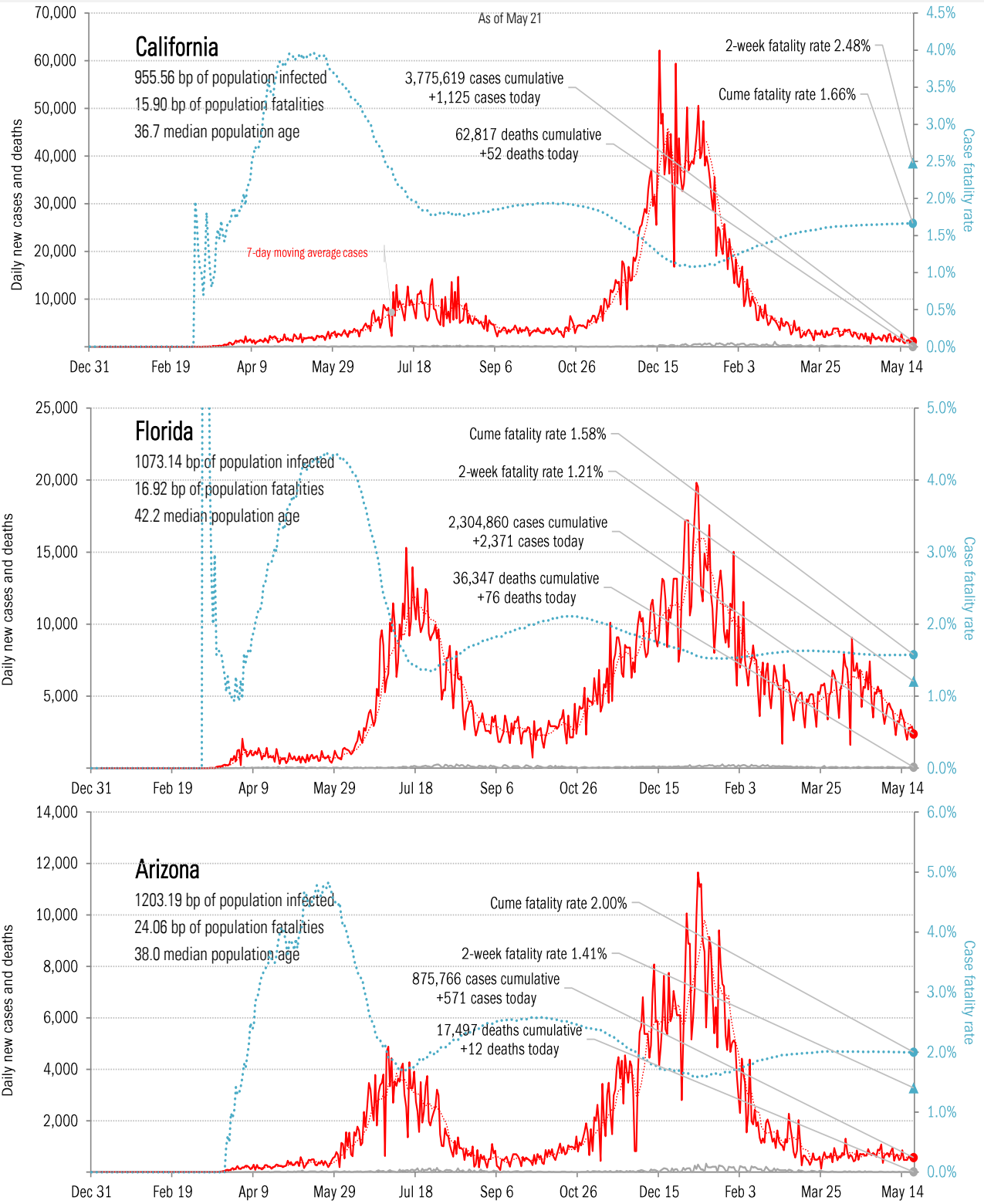
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



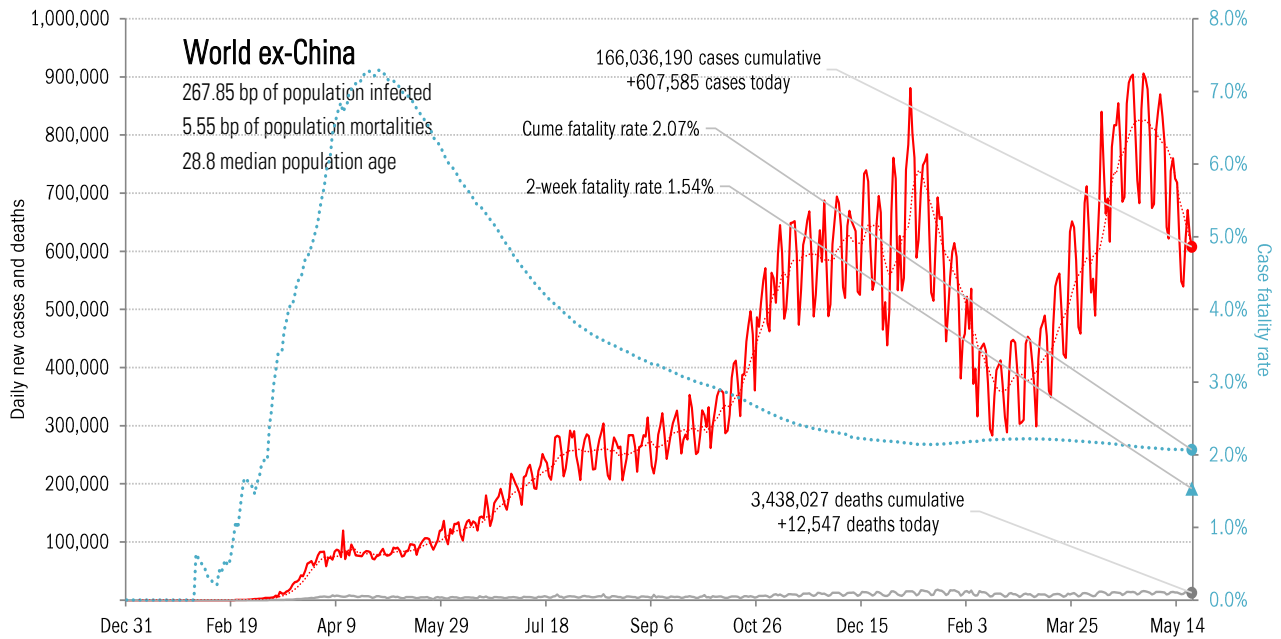
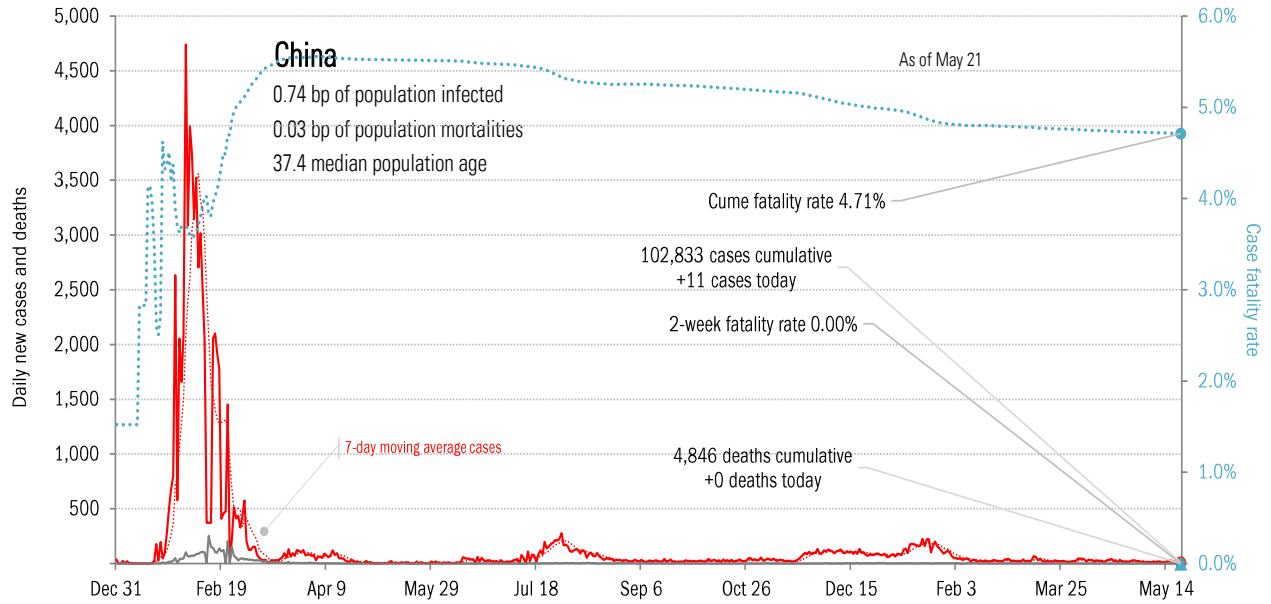
Source: [Johns Hopkins](#), TrendMacro calculations

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



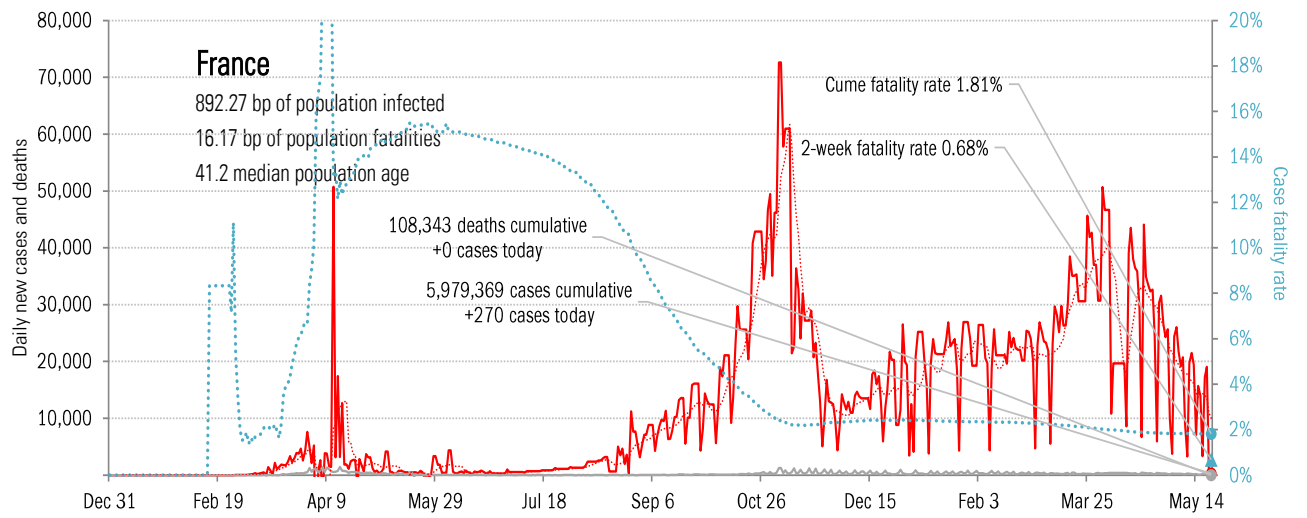
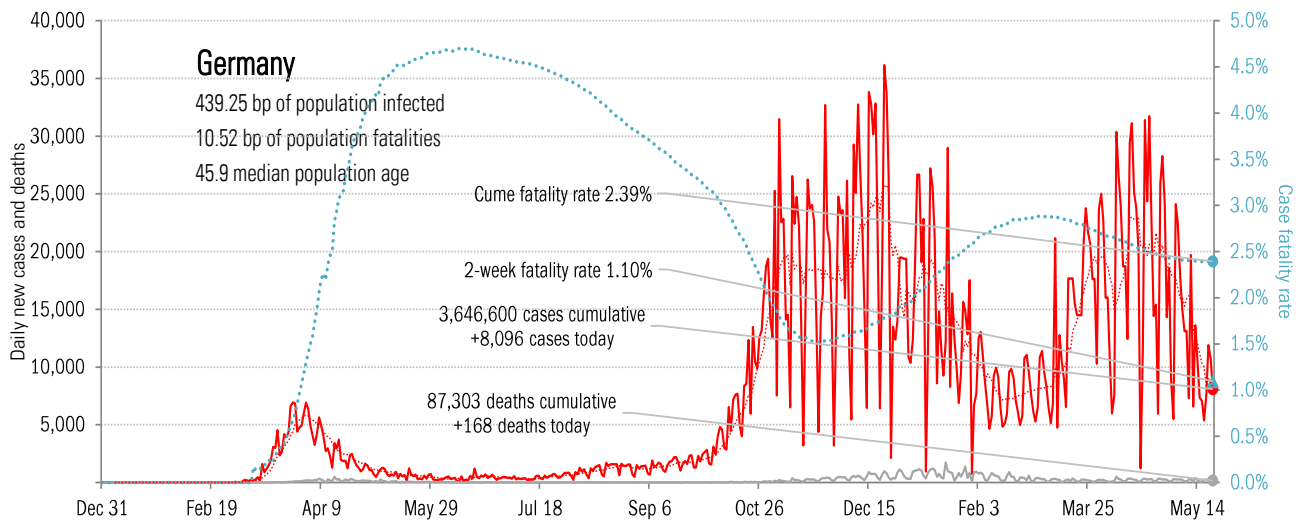
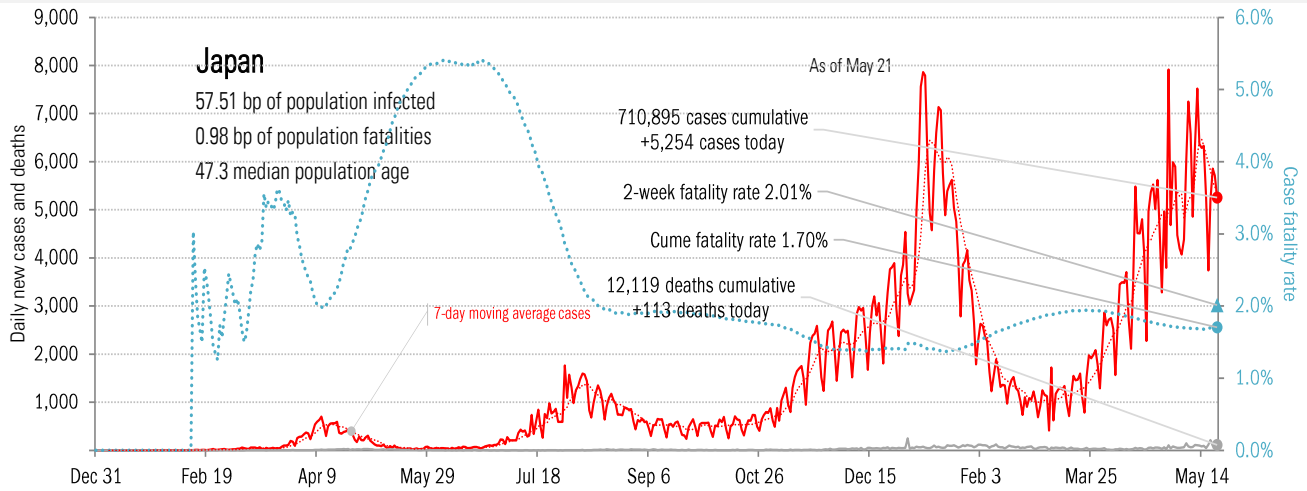
Source: [Johns Hopkins](#), TrendMacro calculations

# Patient zero... and then everyone else



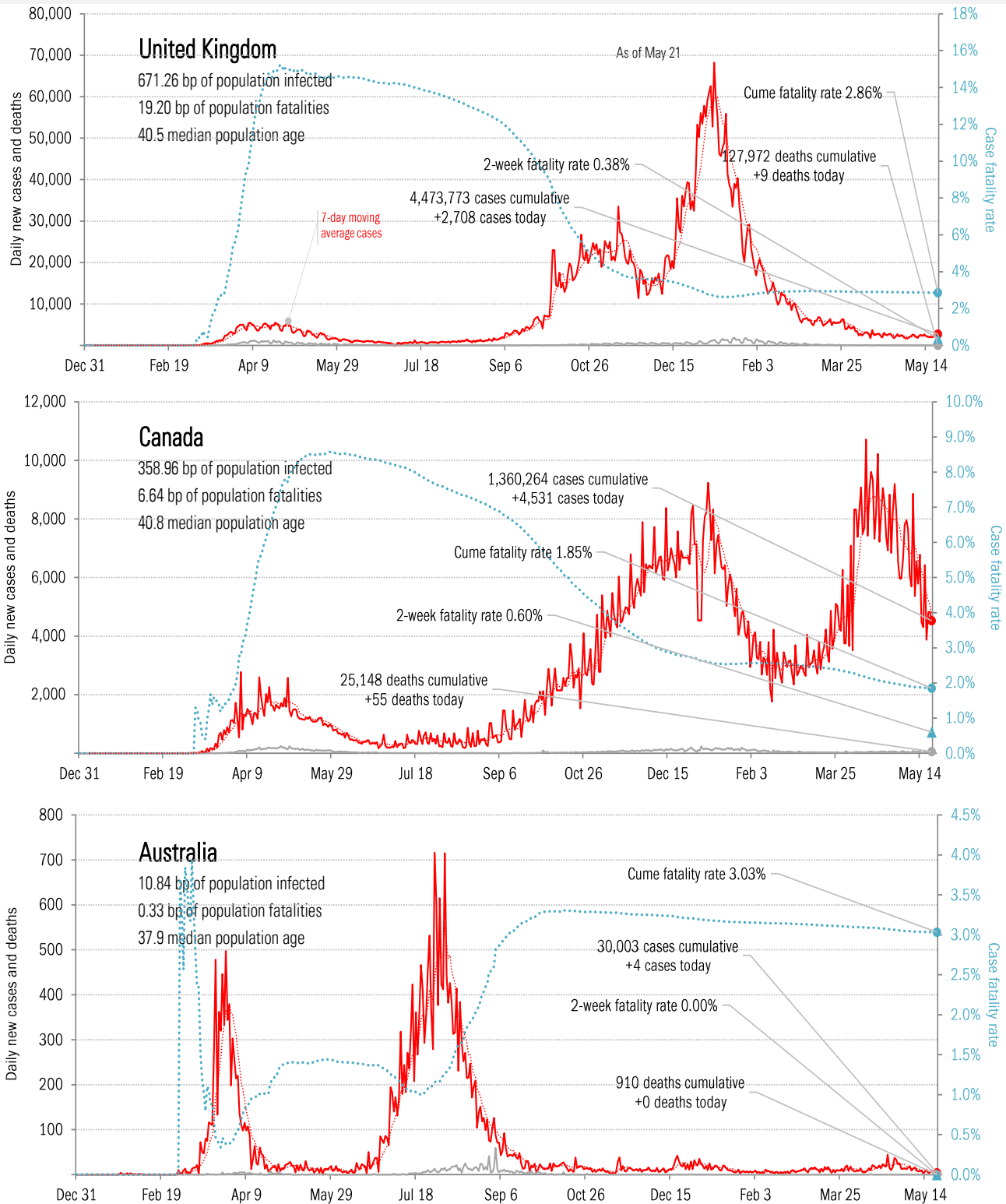
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the largest economies



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

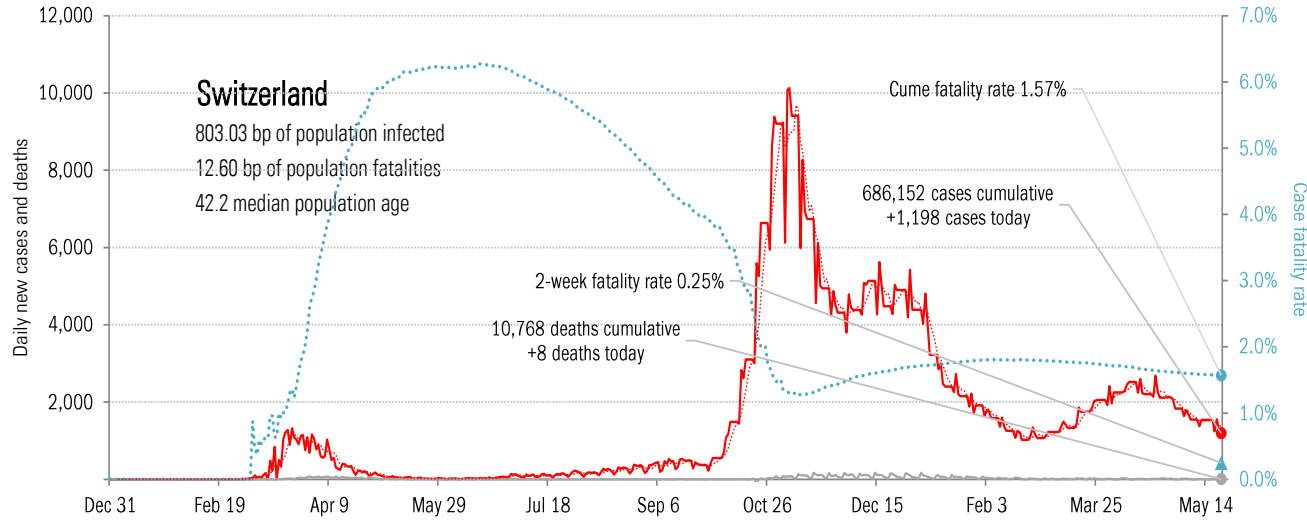
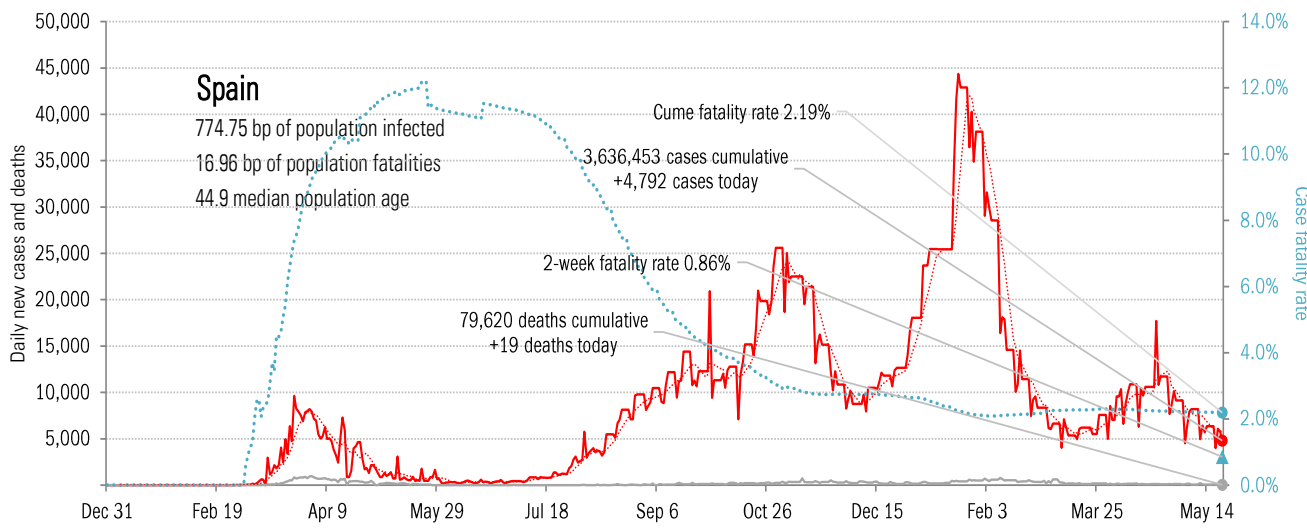
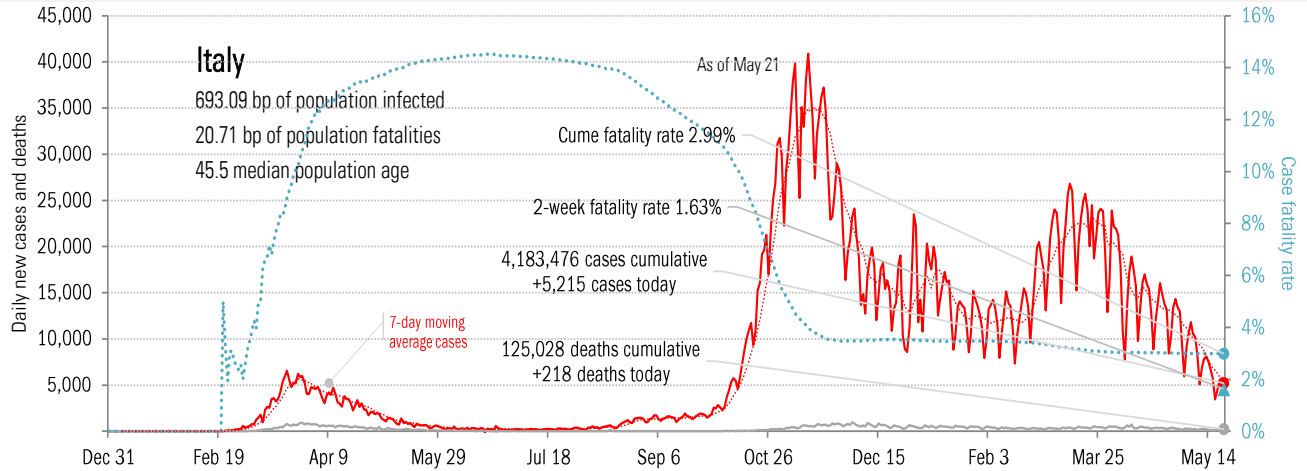
# Impact in The Anglosphere



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

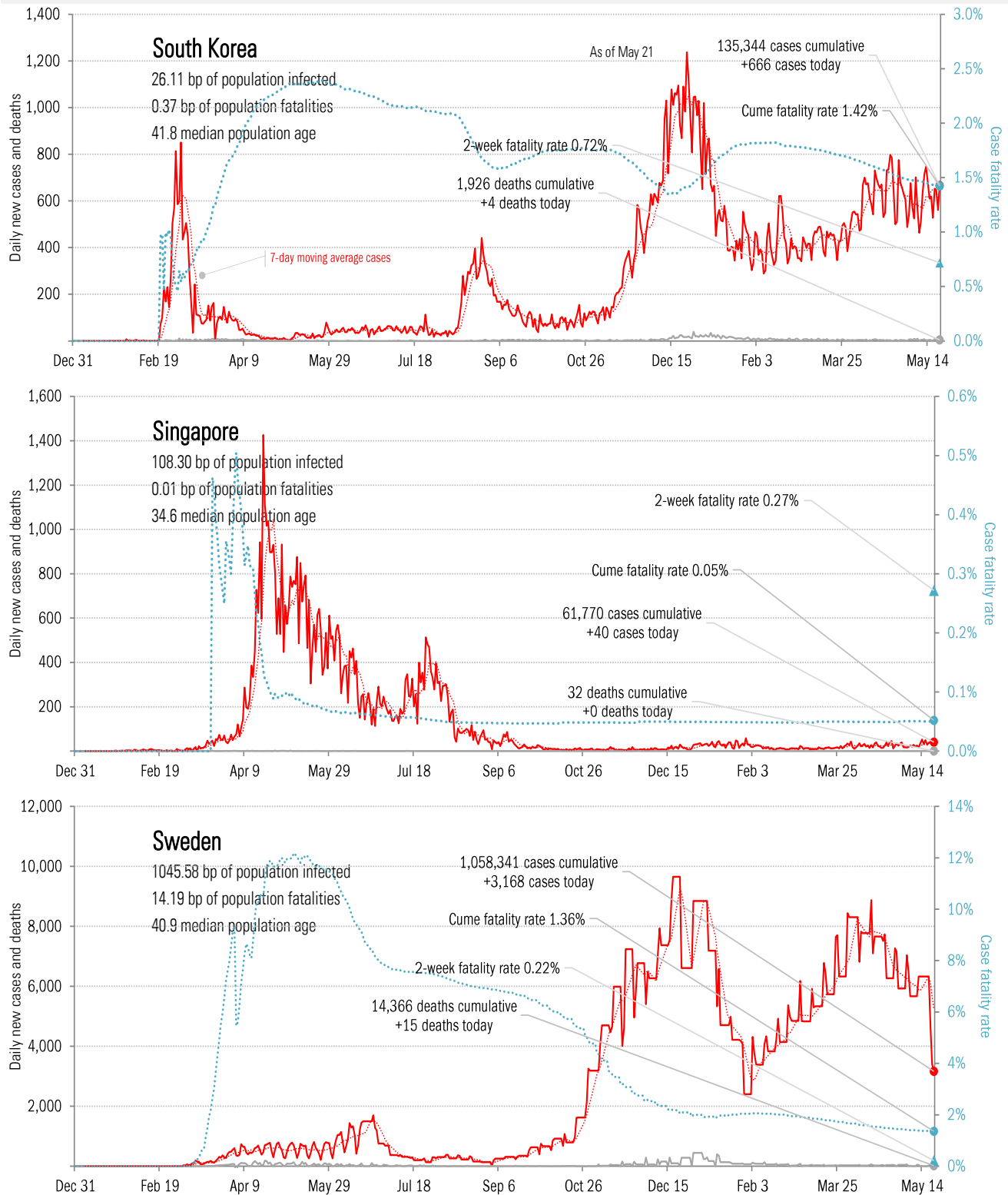


# Impact in continental Europe



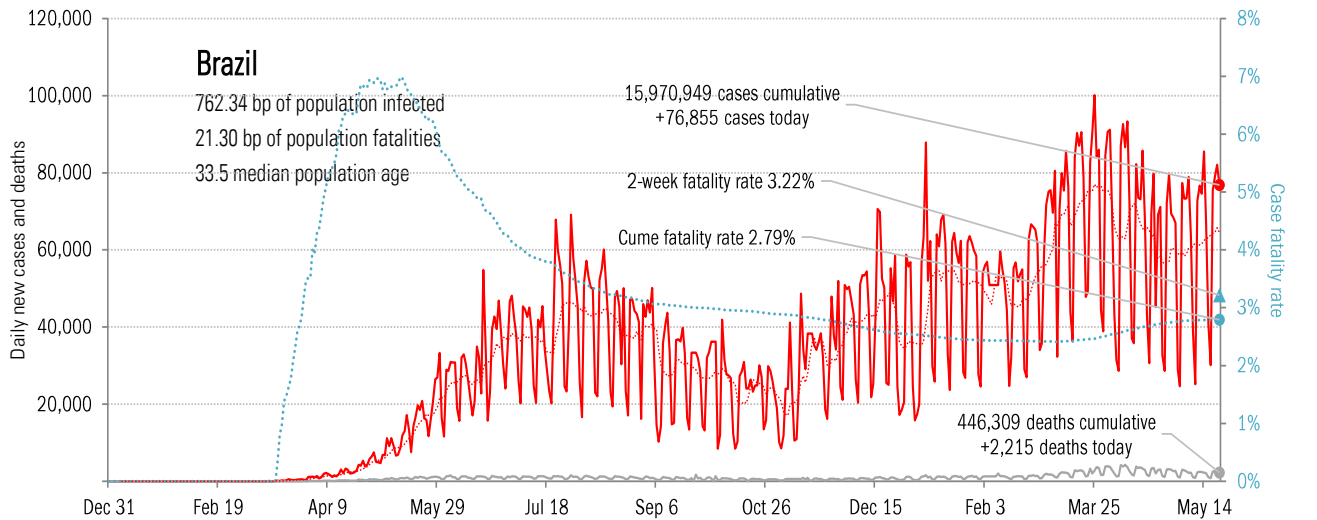
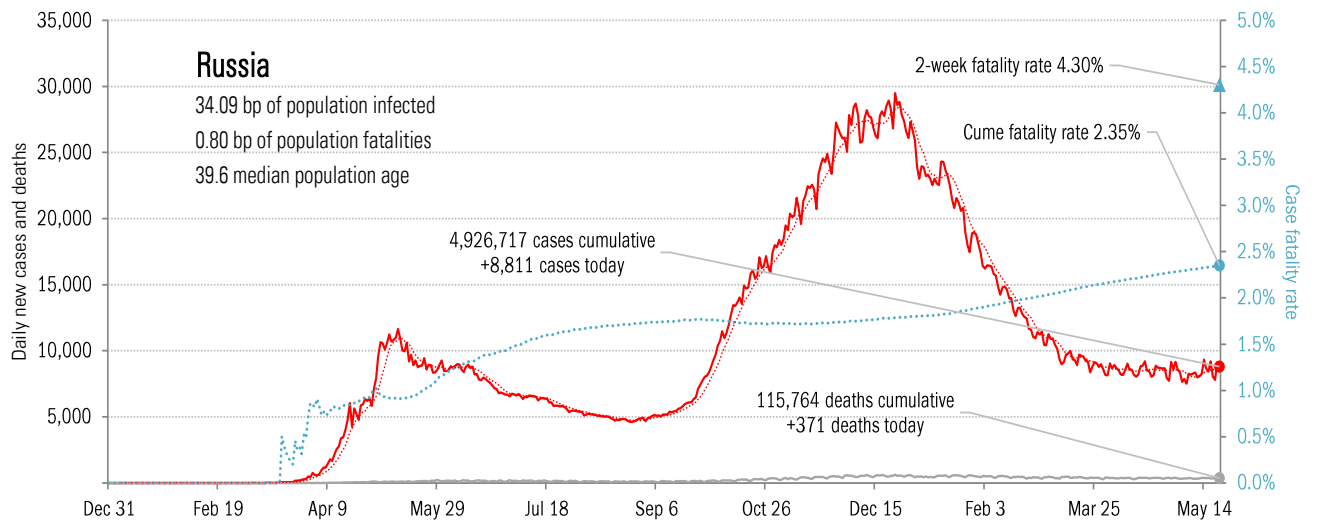
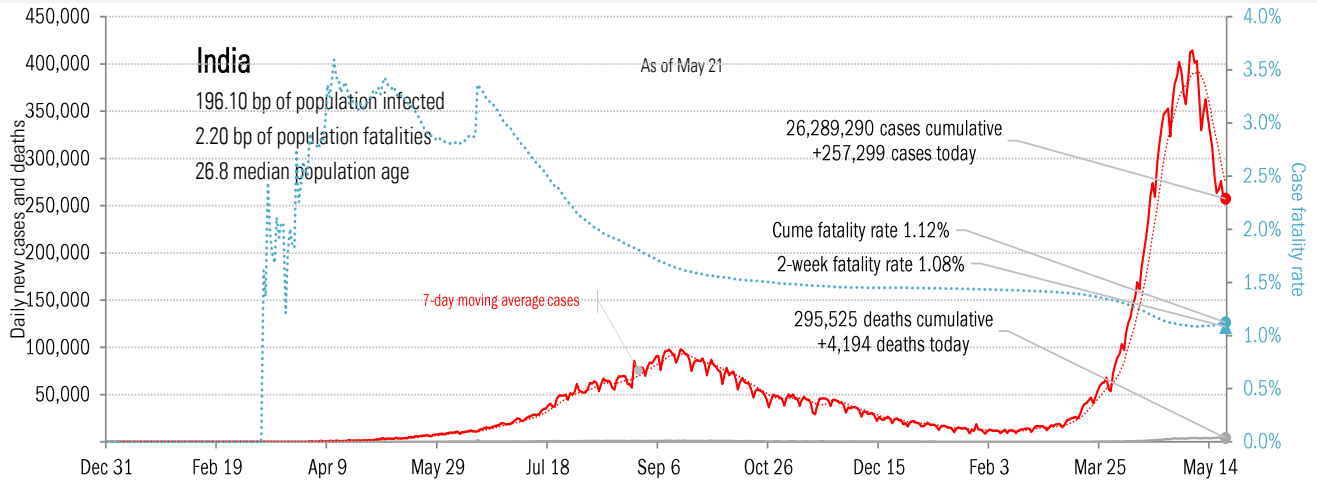
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



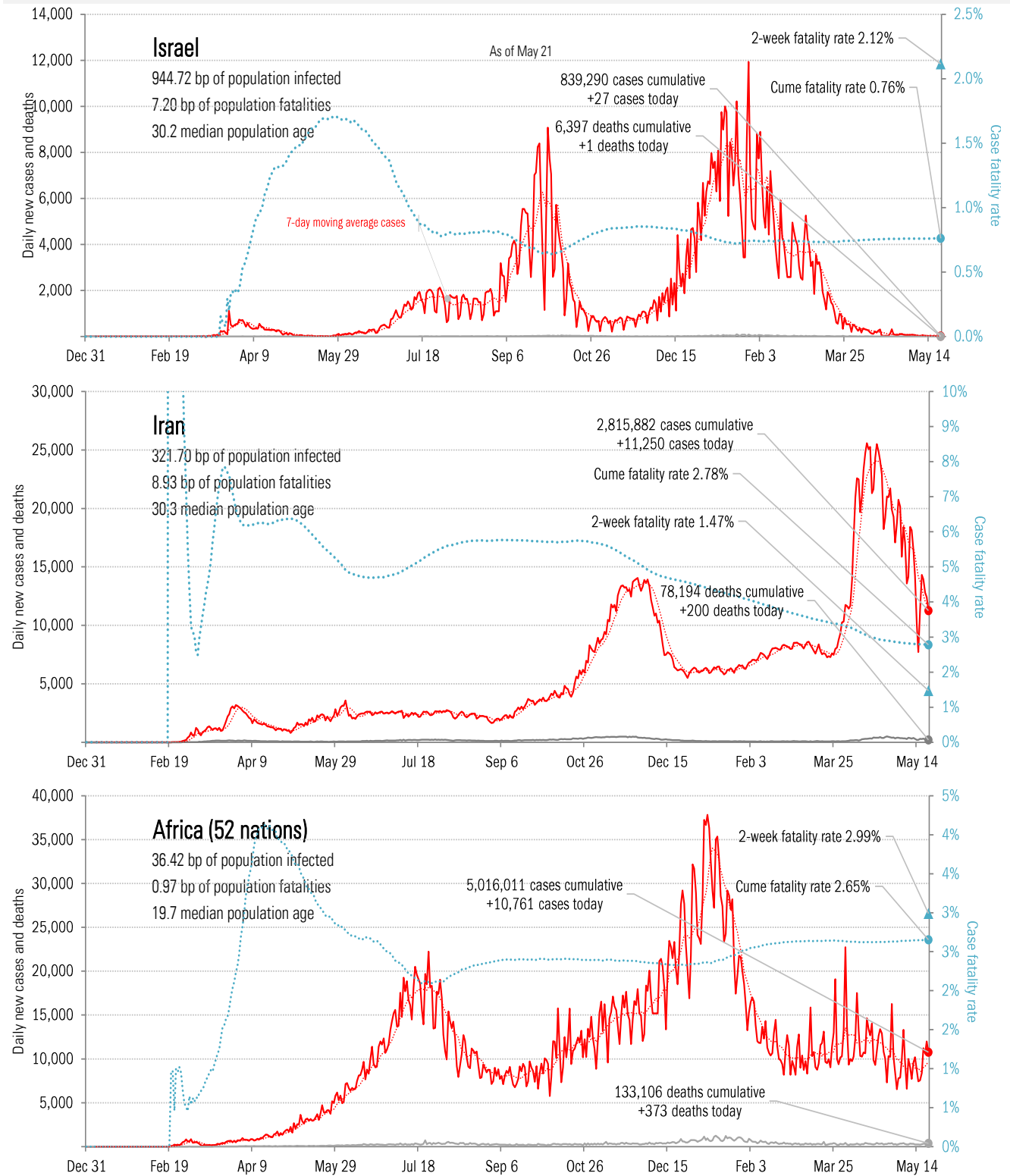
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



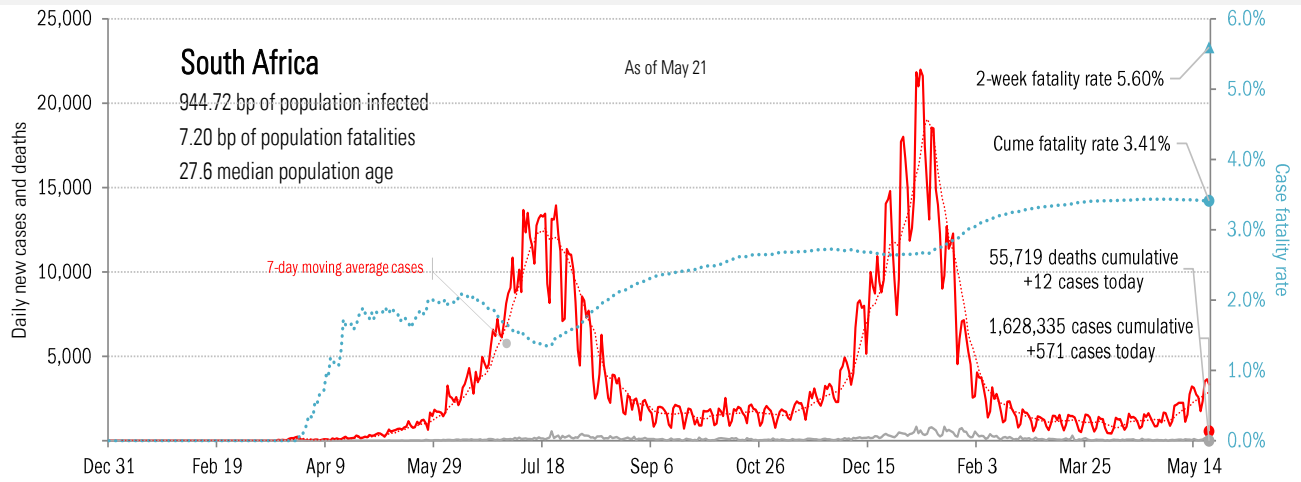
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

# Impact in Africa, continued



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