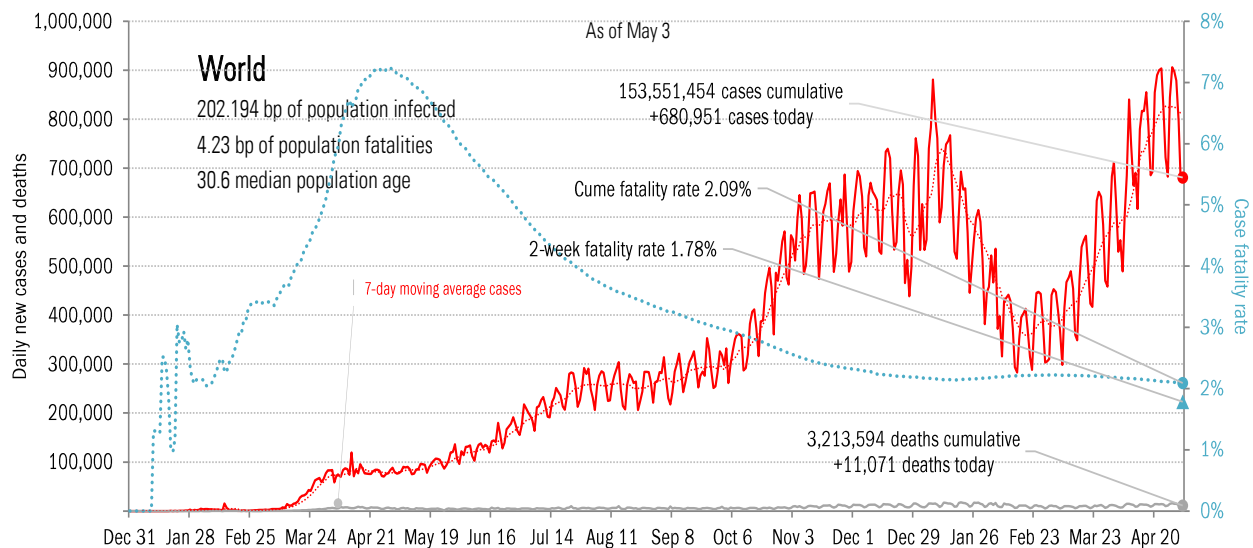
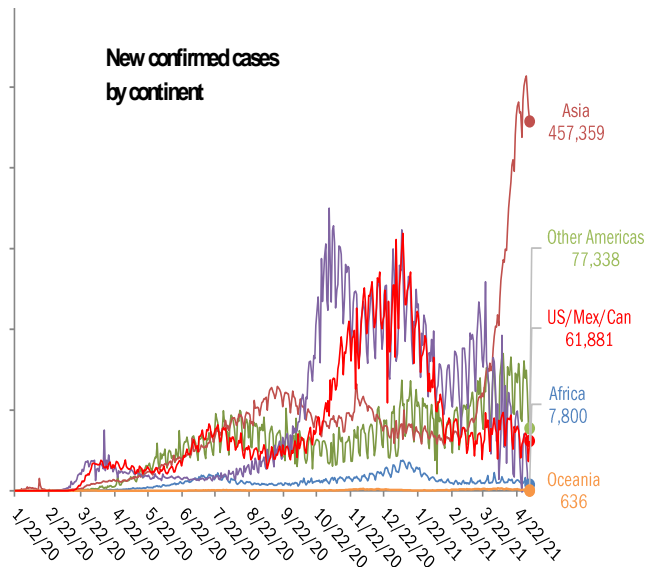


## Data Insights: Covid-2019 Monitor

Tuesday, May 4, 2021

### The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+357,316	India	+3,449
United States	+49,921	Brazil	+983
Turkey	+24,733	Colombia	+687
Brazil	+24,619	Argentina	+540
Iran	+20,732	United States	+477
Spain	+16,353	Iran	+391
Argentina	+15,920	Turkey	+347
Colombia	+11,599	Russia	+330
Canada	+10,933	Germany	+313
Netherlands	+9,230	France	+311
<b>+541,356</b>		<b>+7,828</b>	
World	+680,951	World	+11,071
Top ten	79%	Top ten	71%



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

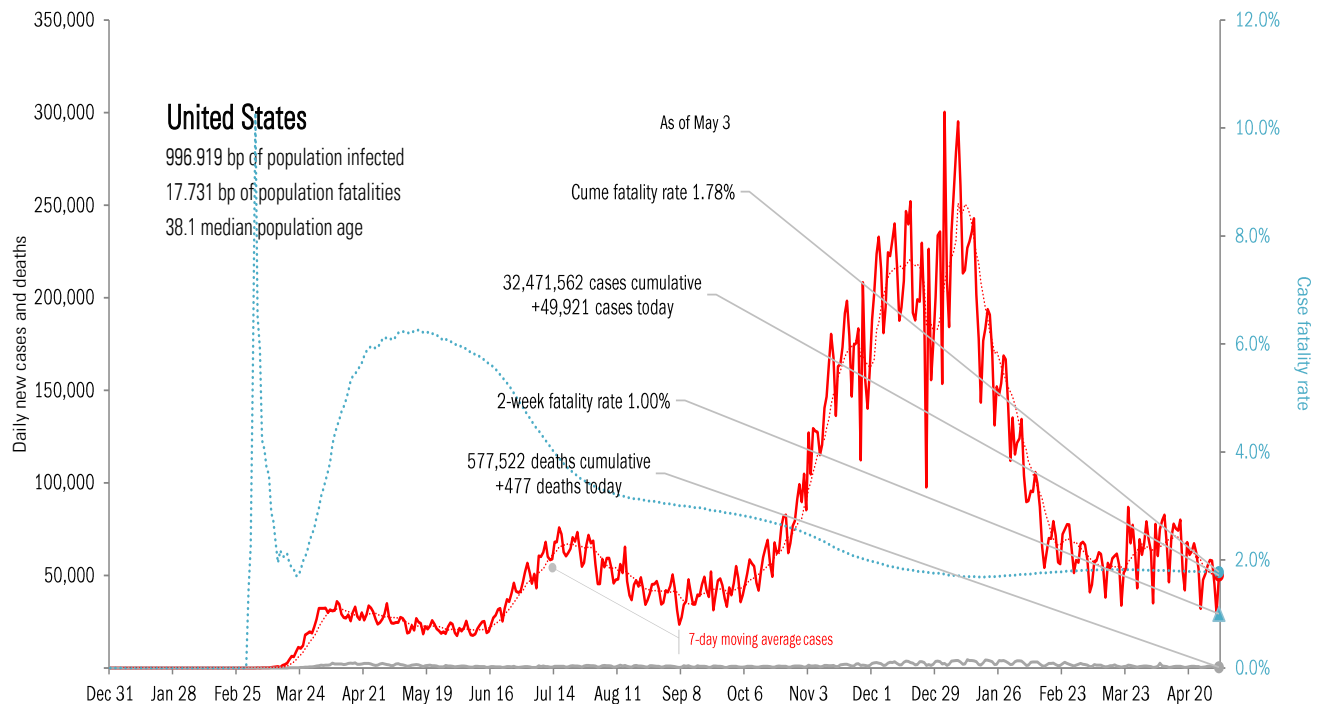
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
MI	+5,557		NY	+65		GA	+92		CA	3,747,337		CA	61,967		TX	238,313		R	91%	MI	32%
NC	+4,567		TX	+41		LA	+58		TX	2,901,549		NY	52,423		CA	230,813		MA	84%	MD	22%
TX	+4,439		NC	+40		NV	+33		FL	2,245,853		TX	50,331		FL	168,332		PA	82%	ME	19%
FL	+3,075		FL	+39		CA	+26		NY	2,057,276		FL	35,307		NY	128,946		CT	82%	RI	18%
PA	+2,531		IL	+31		IL	+25		IL	1,341,671		PA	26,249		GA	101,032		MO	82%	MN	18%
WA	+2,482		MI	+29		TN	+22		PA	1,159,816		NJ	25,616		PA	84,578		MD	82%	CO	17%
NY	+2,428		CA	+28		KY	+19		GA	1,103,659		IL	24,389		CH	81,827		MI	81%	PA	16%
CA	+2,400		MA	+18		WV	+18		CH	1,075,999		GA	20,227		IL	76,129		GA	80%	ID	15%
IL	+2,050		NJ	+16		AR	+17		NJ	1,000,993		CH	19,284		KY	72,134		MN	79%	WA	14%
TN	+2,006		VA	+16		CH	+12		NC	974,319		MI	18,922		MI	65,918		FL	78%	WV	14%
+31,535			+323			+322			17,608,472			334,715			1,248,022						
All states	+49,921			+477			+7		All states	32,471,562			577,522			2,222,932		All states	70%		67%
Top ten	63%			68%			4600%		Top ten	54%			58%			56%		Median	72%		10%

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
FL	-766	CA	-45	CR	-44	NE	+97 bp
MN	-606	IN	-10	IN	-27	VT	+61 bp
GA	-432	SC	-10	WA	-25	IA	+44 bp
MO	-430	IA	-7	NM	-21	WA	+41 bp
NY	-398	WV	-7	FL	-19	NM	+39 bp

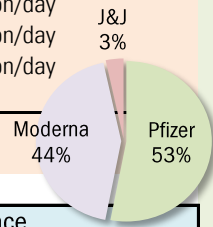


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

US overall	Over last day	Immunity	Full	Partial
324.37 million doses distributed	+0.00 million/day	US	44.1%	44.1%
255.12 million doses administered	+1.22 million/day	UK		
151.73 million persons partially immunized	+0.48 million/day	France		
109.01 million persons fully immunized	+0.77 million/day	Spain		

78.6% of distributed doses administered  
 45.4% of US pop partial 32.6% full immunity



Country	Full	Partial
US	44.1%	44.1%
UK		
France		
Spain		
Germany		
Italy		
Australia		
Israel		
Canada		
Japan		
Africa		
India	2.1%	9.3%
Brazil	6.6%	14.1%
China NA		

Global vax data not updating correctly at the source today.

At today's dosing pace, every American >18 immune in **189 days** by Nov 7, 2021  
 51.8% of population >18 immunized  
 13.7% previously tested positive  
 65.4% vs 60% adult herd immunity

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

Best  
Middle  
Worst

AK
56.2%
42.2%
36.0%

ME
55.7%
55.2%
40.2%

WI
47.8%
46.3%
36.6%

VT
59.2%
57.4%
39.3%

NH
52.7%
60.8%
30.1%

WA 51.1% 47.7% 33.7%	ID 42.7% 34.3% 28.0%	MT 49.7% 41.2% 33.0%	ND 44.6% 39.5% 33.2%	MN 47.0% 48.0% 35.7%	IL 50.9% 47.4% 31.5%	MI 50.4% 43.2% 33.2%	NY 51.5% 48.4% 36.0%	MA 57.0% 57.5% 38.2%		
OR 49.1% 45.7% 31.9%	NV 43.7% 40.2% 29.1%	WY 44.5% 34.1% 28.1%	SD 54.2% 45.0% 37.9%	IA 47.4% 44.7% 35.6%	IN 43.7% 36.7% 27.9%	OH 47.9% 40.9% 33.4%	PA 53.9% 50.6% 33.3%	NJ 52.2% 52.3% 37.3%	CT 58.1% 55.8% 40.3%	RI 57.1% 53.5% 38.1%
CA 53.2% 49.8% 32.0%	UT 42.1% 39.8% 24.4%	CO 49.6% 47.1% 33.8%	NE 48.8% 43.7% 34.5%	MO 45.9% 38.2% 28.5%	KY 47.1% 41.5% 32.5%	WV 49.1% 35.9% 30.9%	VA 50.9% 47.9% 34.3%	MD 53.7% 49.3% 35.2%	DE 53.2% 47.5% 34.1%	
AZ 48.3% 41.3% 29.8%	NM 52.1% 51.8% 39.0%	KS 49.9% 42.9% 32.6%	AR 46.5% 35.9% 26.3%	TN 43.2% 34.8% 25.4%	TN 43.2% 34.8% 25.4%	NC 49.9% 39.7% 30.4%	SC 47.0% 37.0% 28.3%	DC 64.5% 49.1% 31.2%		
OK 50.2% 38.8% 30.3%	LA 42.0% 32.4% 26.9%	MS 44.0% 31.1% 23.8%	AL 44.7% 32.7% 23.8%	GA 47.1% 35.4% 25.4%	TX 46.8% 38.7% 27.9%	FL 51.9% 42.4% 30.1%	PR 52.7% 38.9% 25.5%			

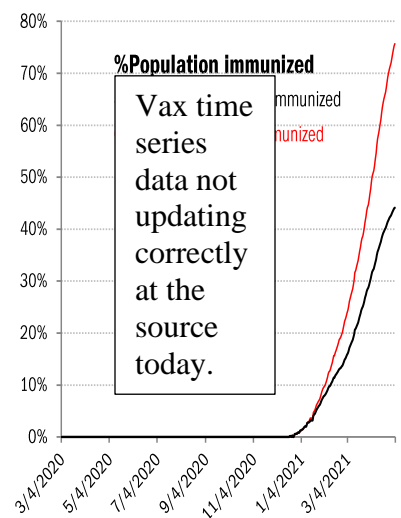
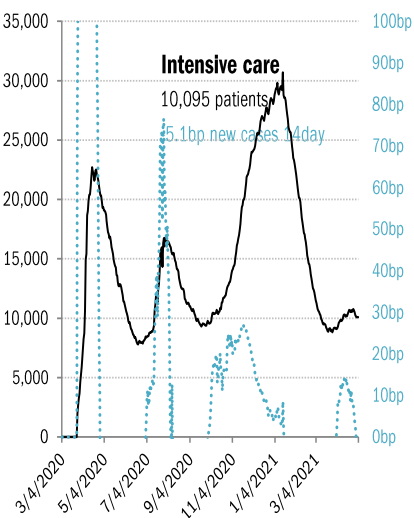
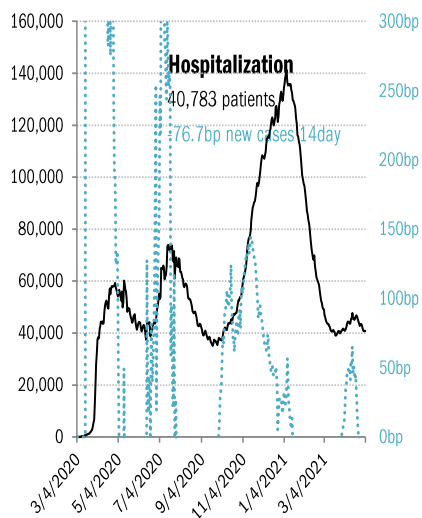
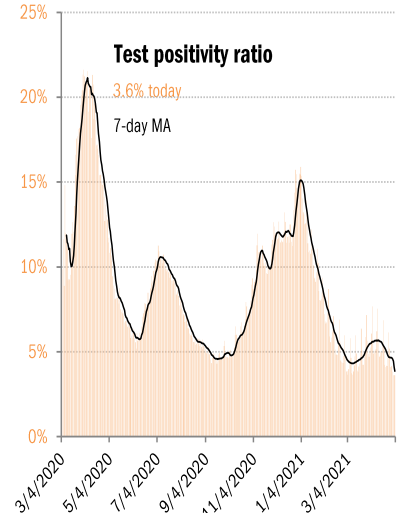
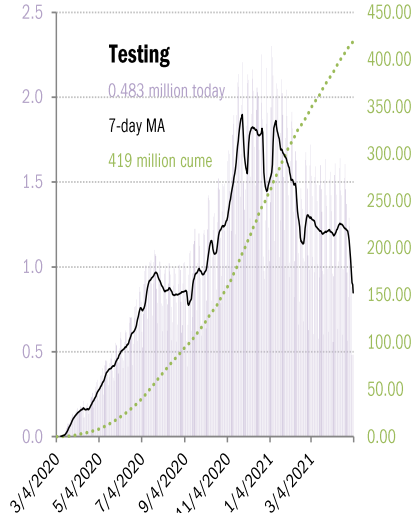
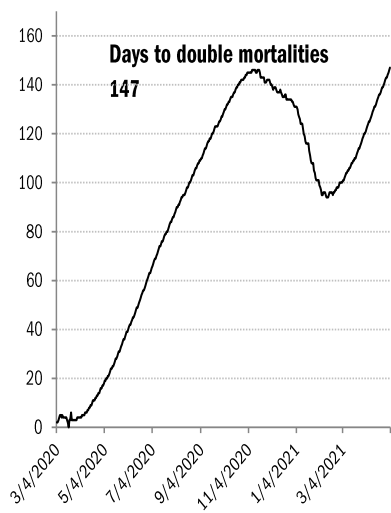
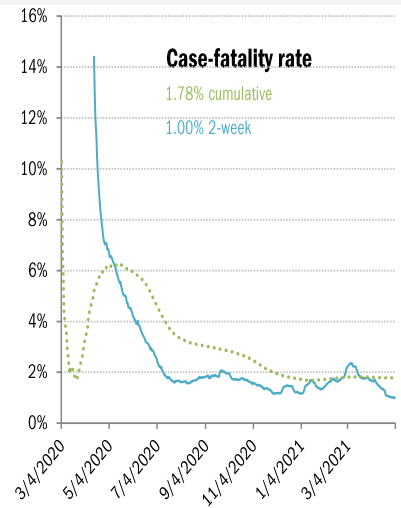
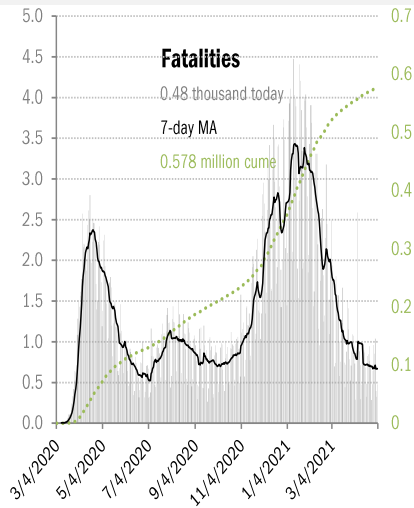
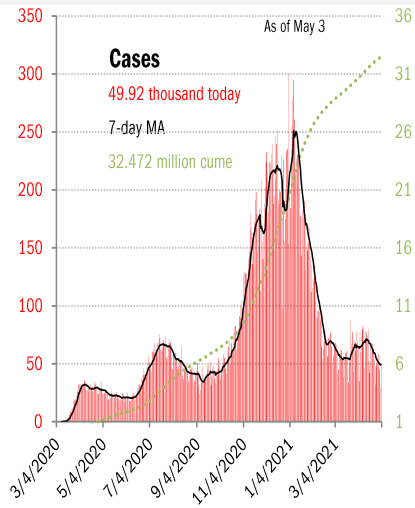
As of May 3

\*\* 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

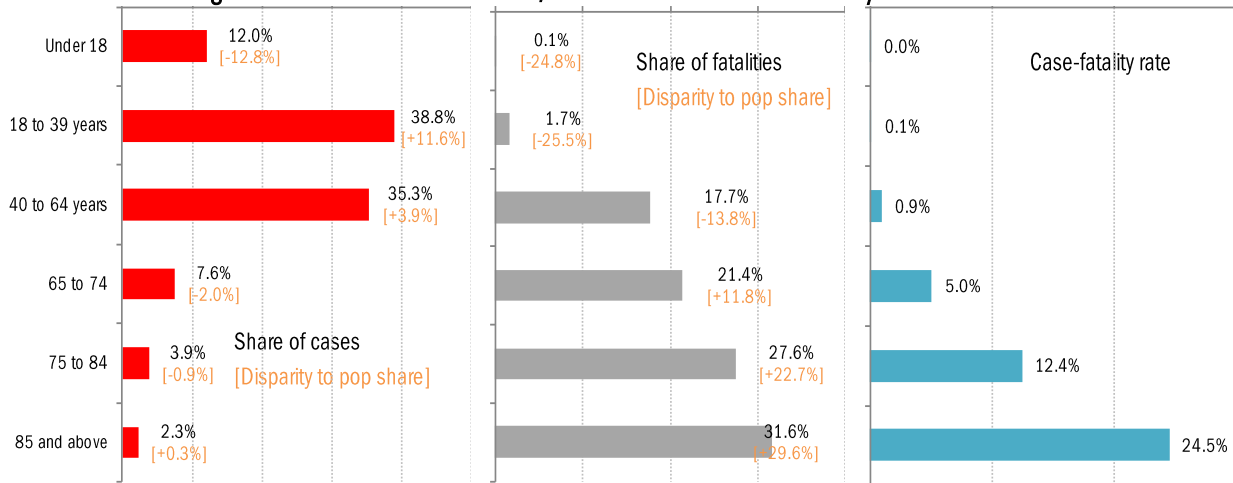
National and state-by-state data do not line up because of different sources



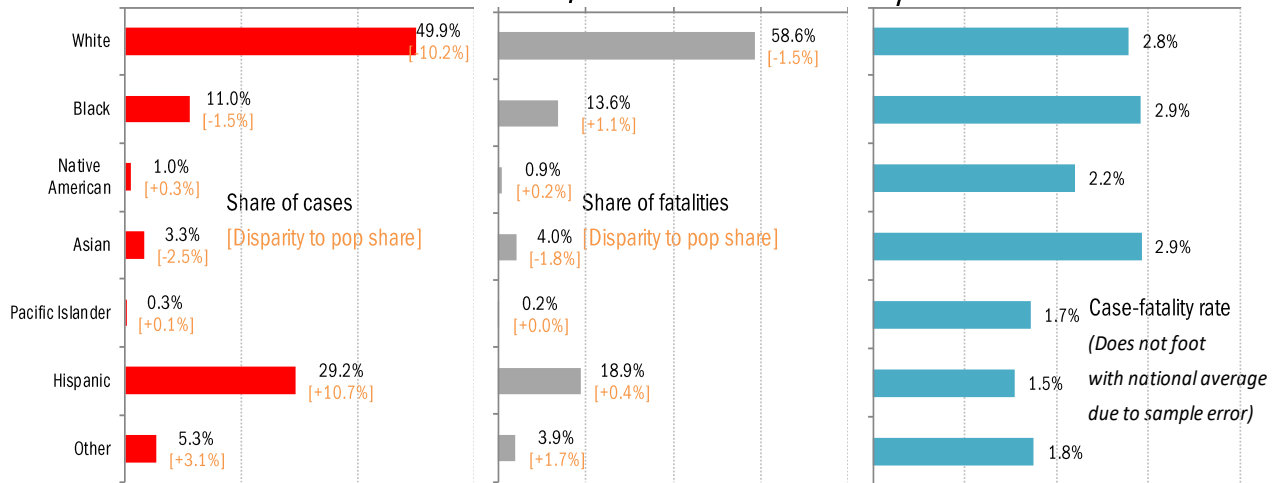
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

# US deep-dive on the demographics of age, race and health

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

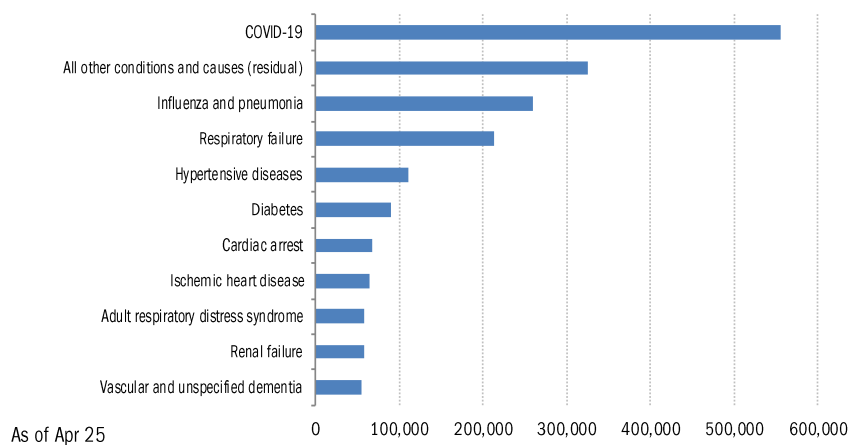


## Racial distribution of US cases, fatalities and case-fatality rates



## 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

[Florida Gov. Ron DeSantis suspends all local COVID emergency orders](#)

Jackie Salo  
*New York Post*  
May 3, 2021

[Believe Science: Get Vaccinated. Then Relax.](#)

Bari Weiss  
*Common Sense*  
May 2, 2021

[The Hot-Person Vaccine](#)

Kaitlyn Tiffany  
*The Atlantic*  
April 30, 2021

[Powerful teachers union influenced CDC on school reopenings, emails show](#)

Jon Levine  
*New York Post*  
May 1, 2021

[Event 201 Pandemic Exercise: Highlights Reel](#)

*Center for Health Security*  
November 4, 2019

[The Pandemic Gets the Michael Lewis Treatment, Heroic Technocrats and All](#)

Jennifer Szalai  
*New York Times*  
May 3, 2021

[Reaching 'Herd Immunity' Is Unlikely in the U.S., Experts Now Believe](#)

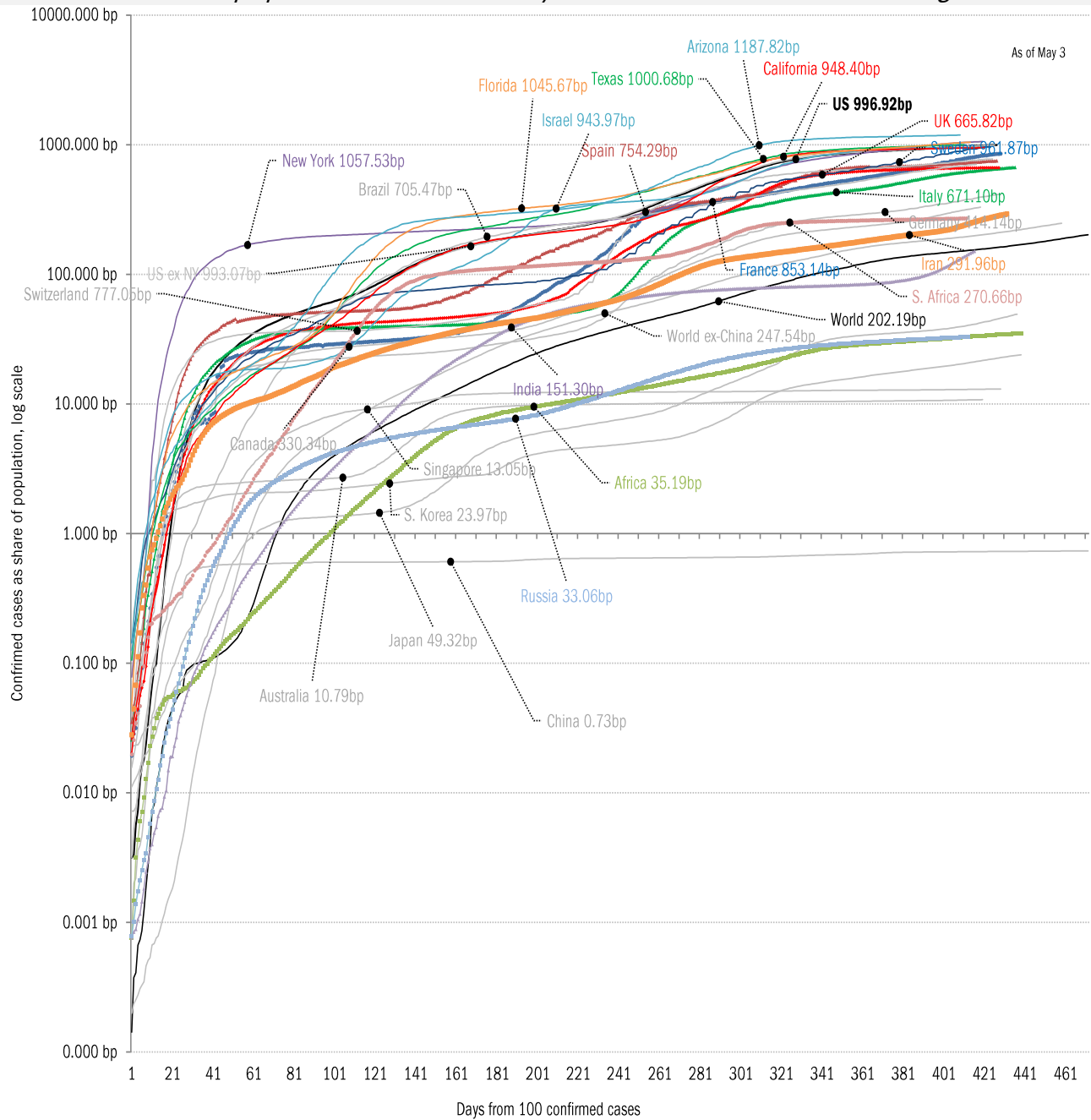
Apoorva Mandavilli  
*New York Times*  
May 3, 2021

## Meme of the day



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

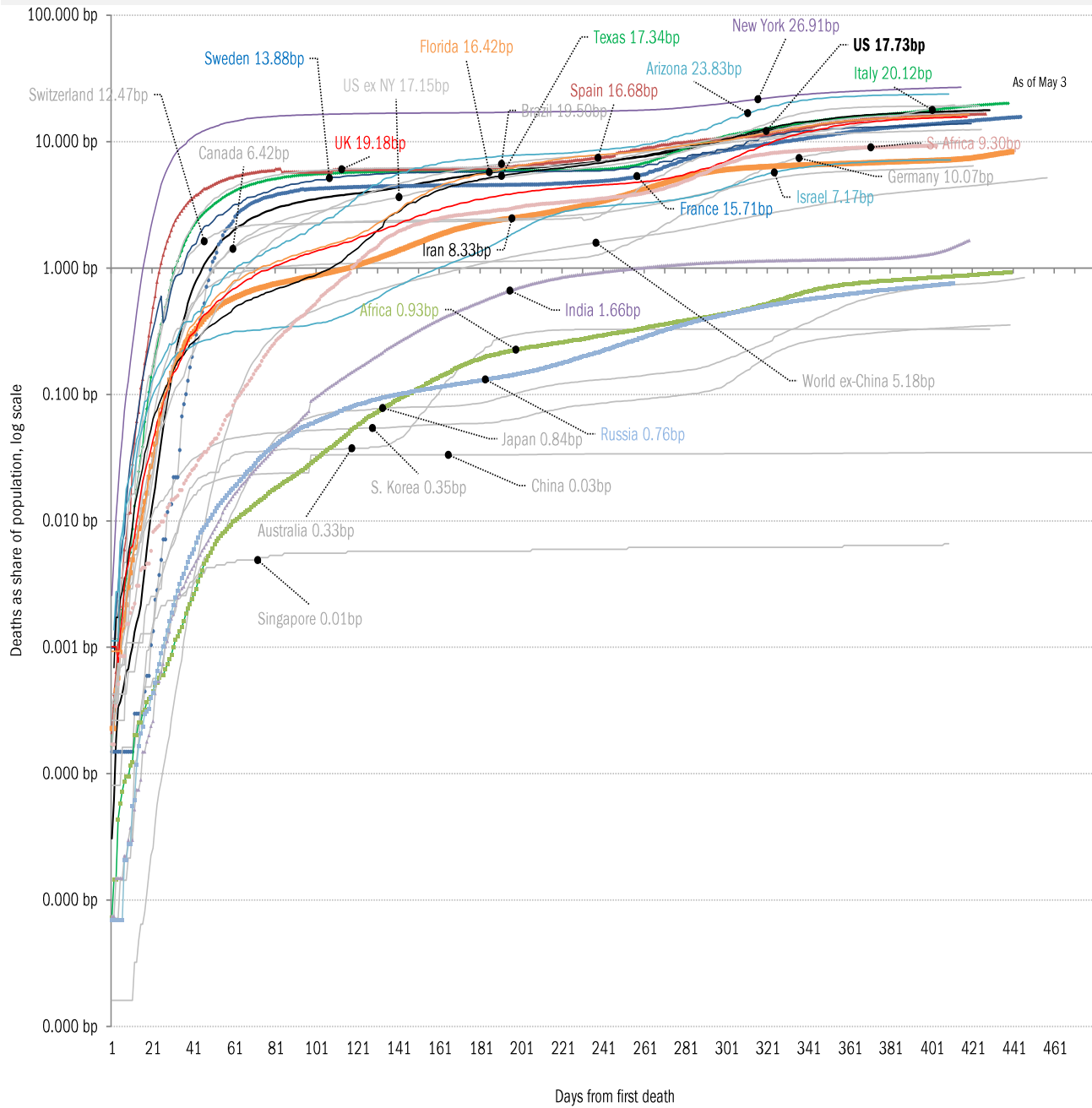
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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

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

## Share of deceased population from day of first fatality



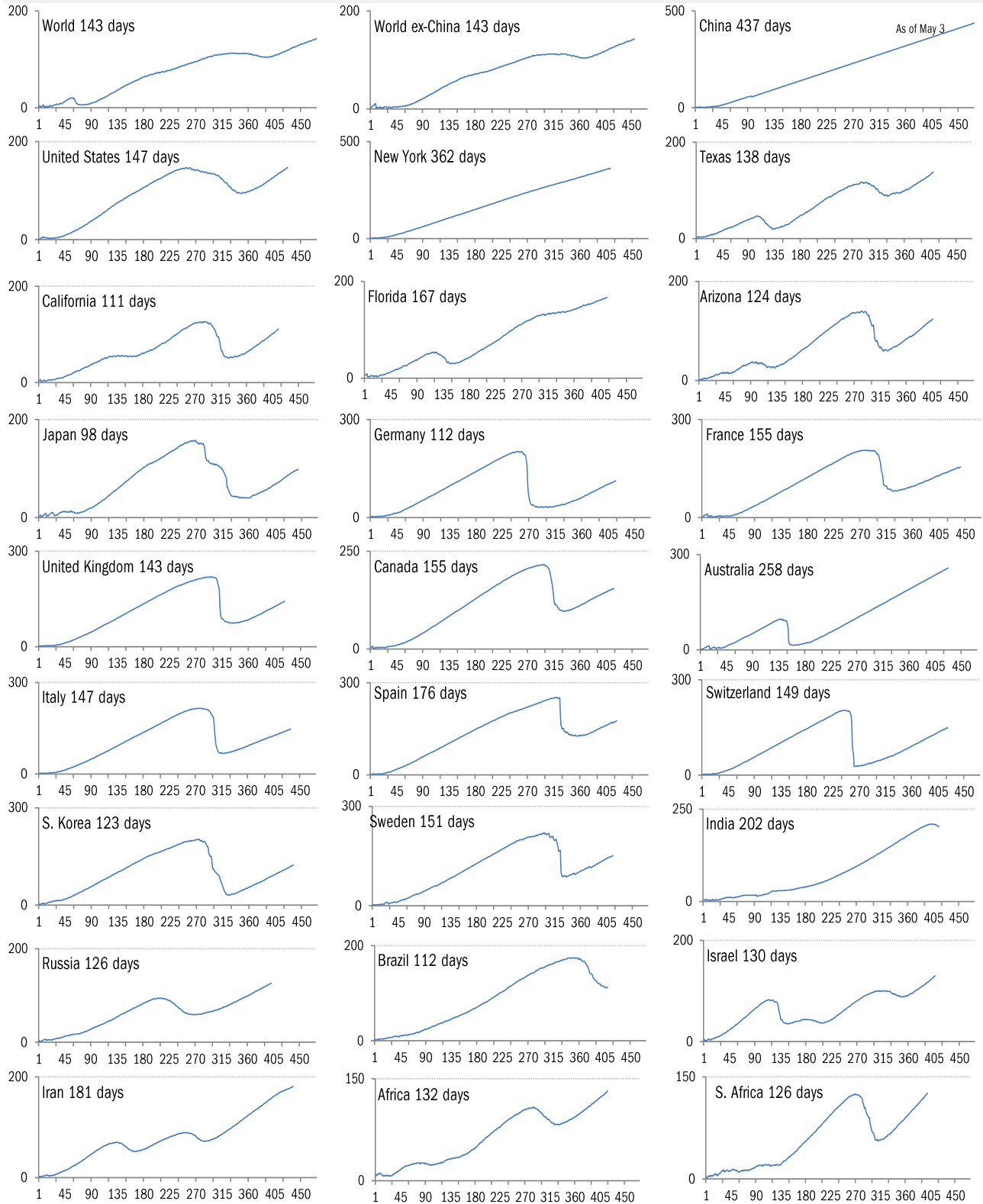
Source: [Johns Hopkins](#), TrendMacro calculations



# "Exponential"? Our most reliable evidence of the rate of spread of Covid-19

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

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

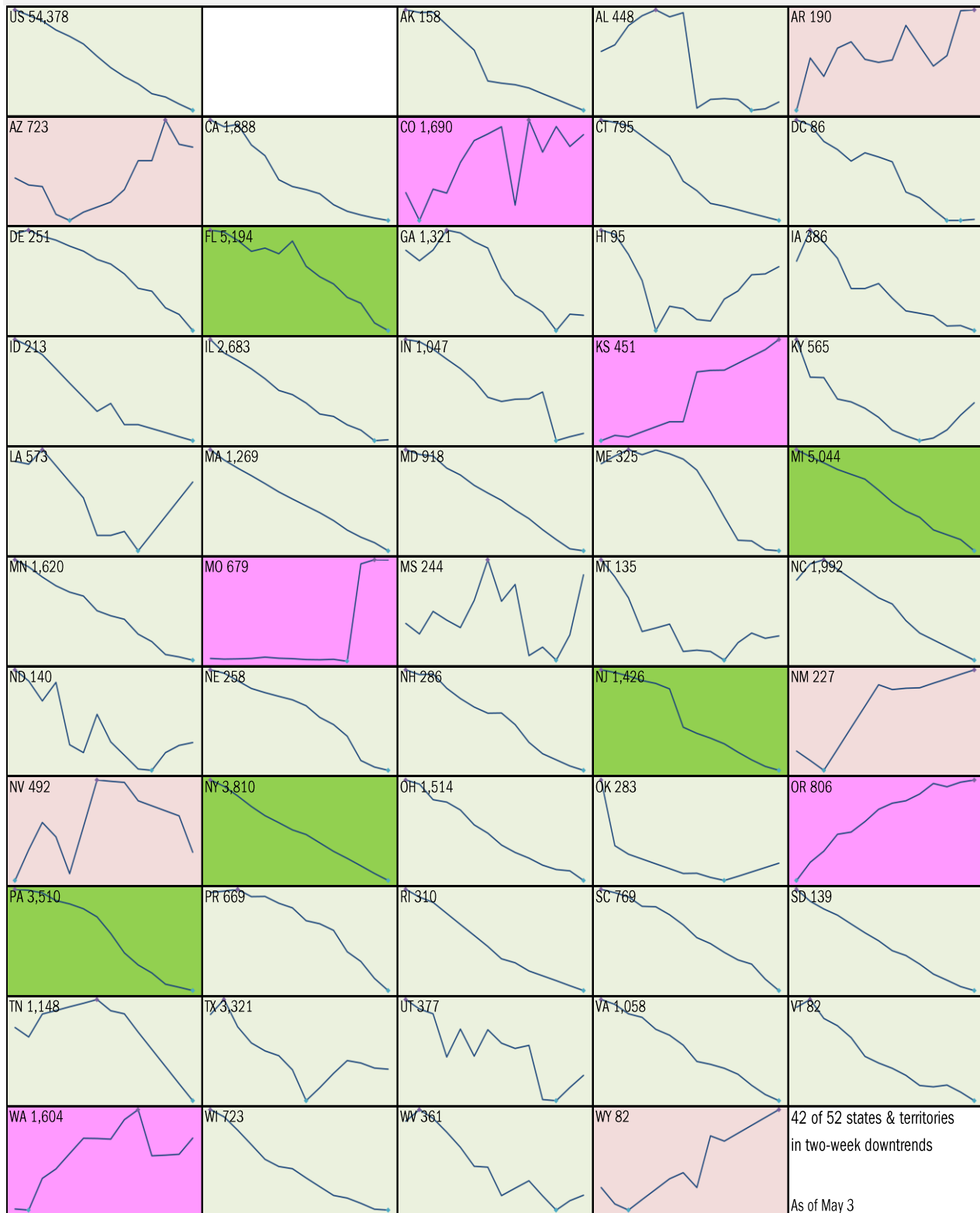


Source: [Johns Hopkins](#), TrendMacro calculations

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

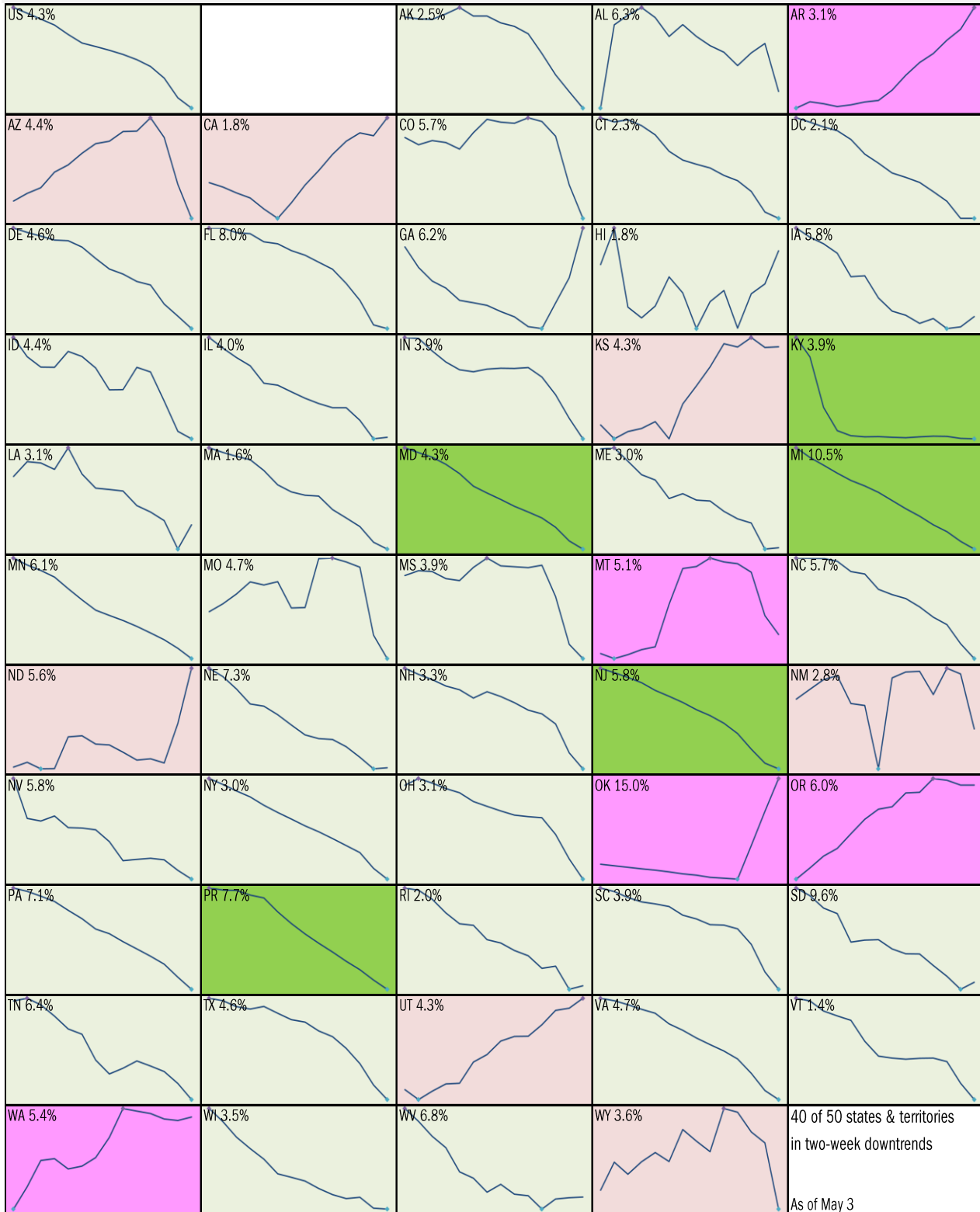


Source: [Johns Hopkins](#), TrendMacro calculations

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

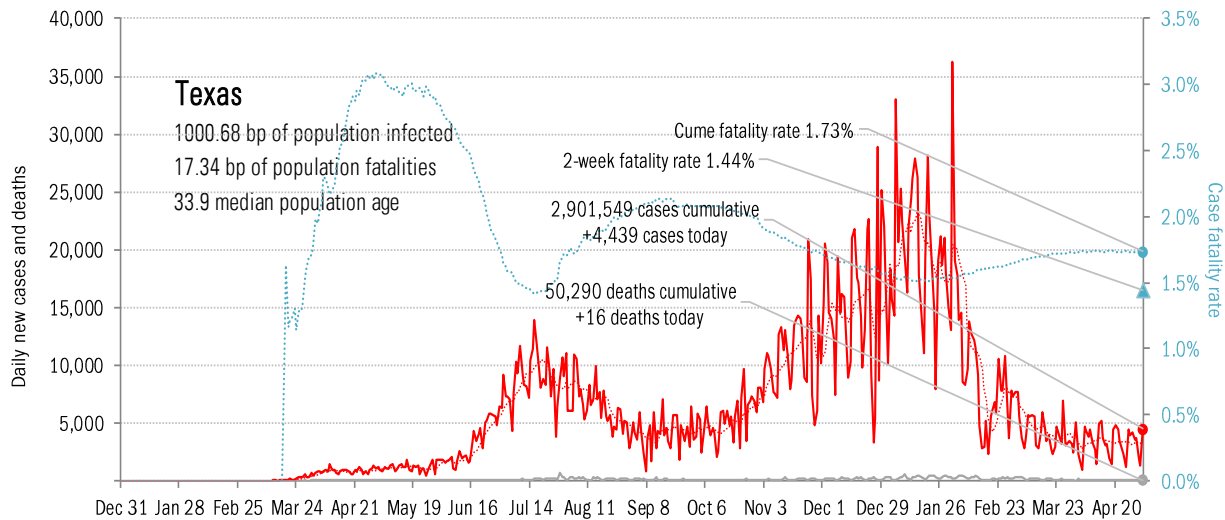
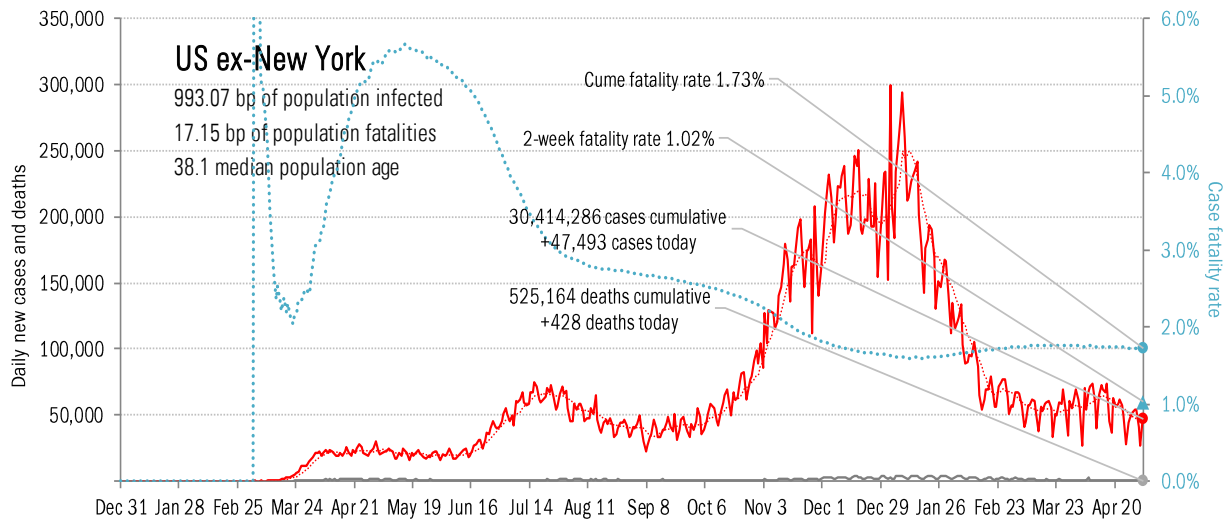
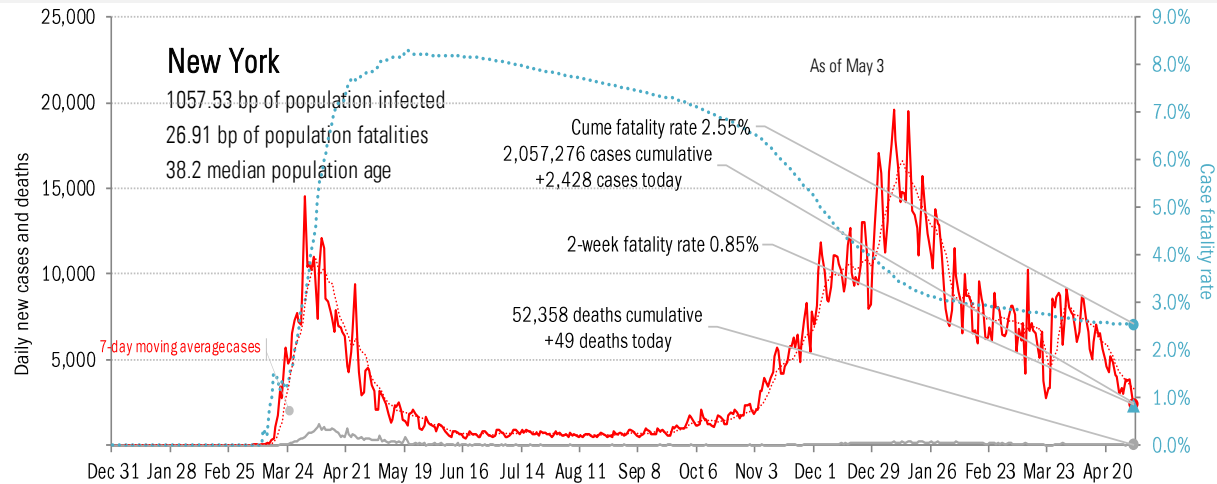
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



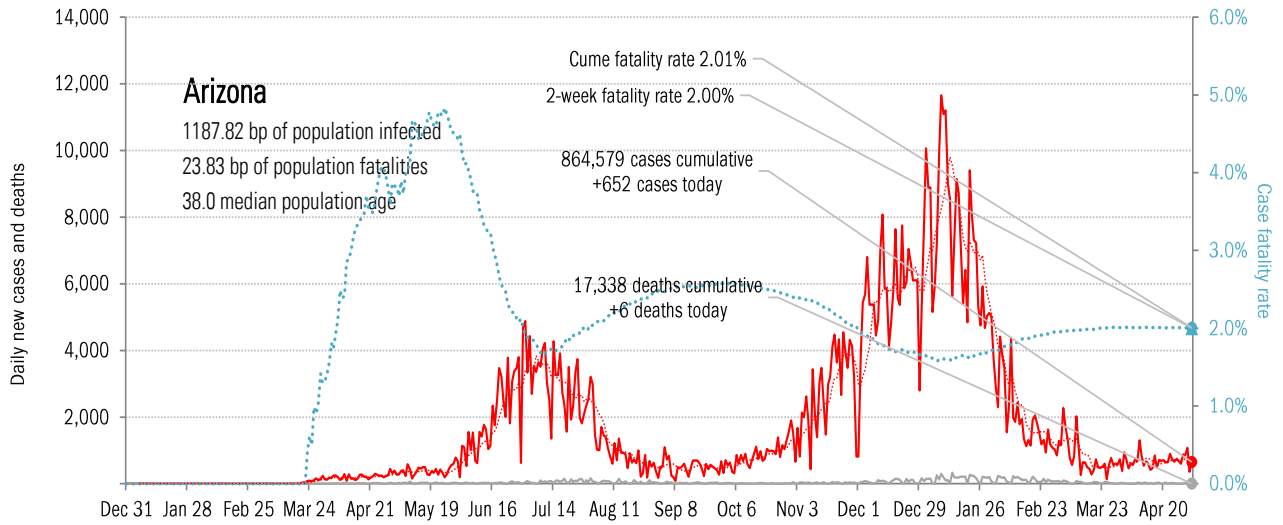
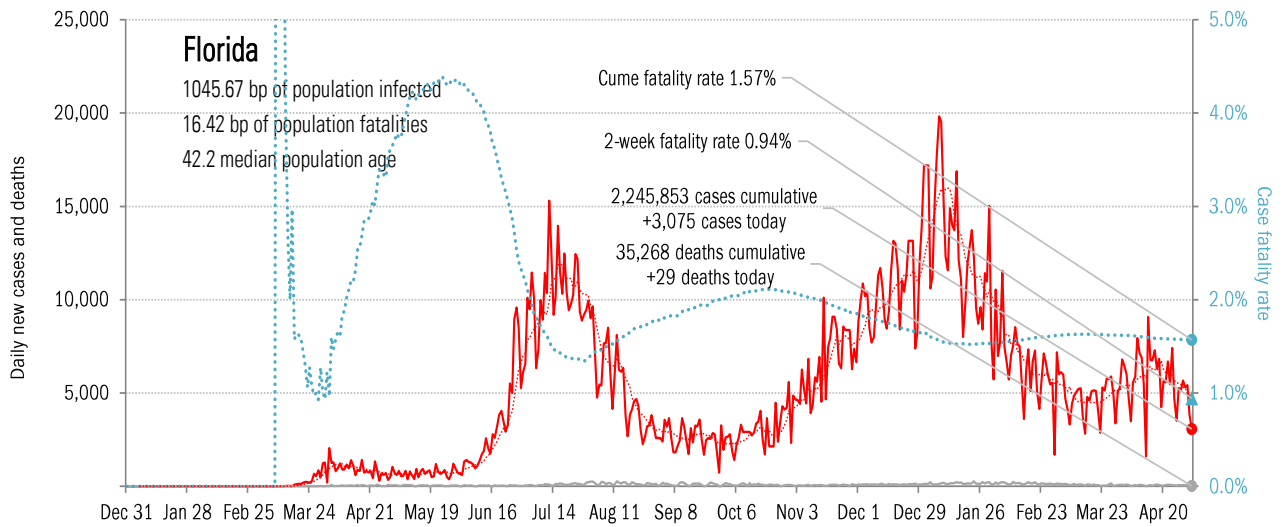
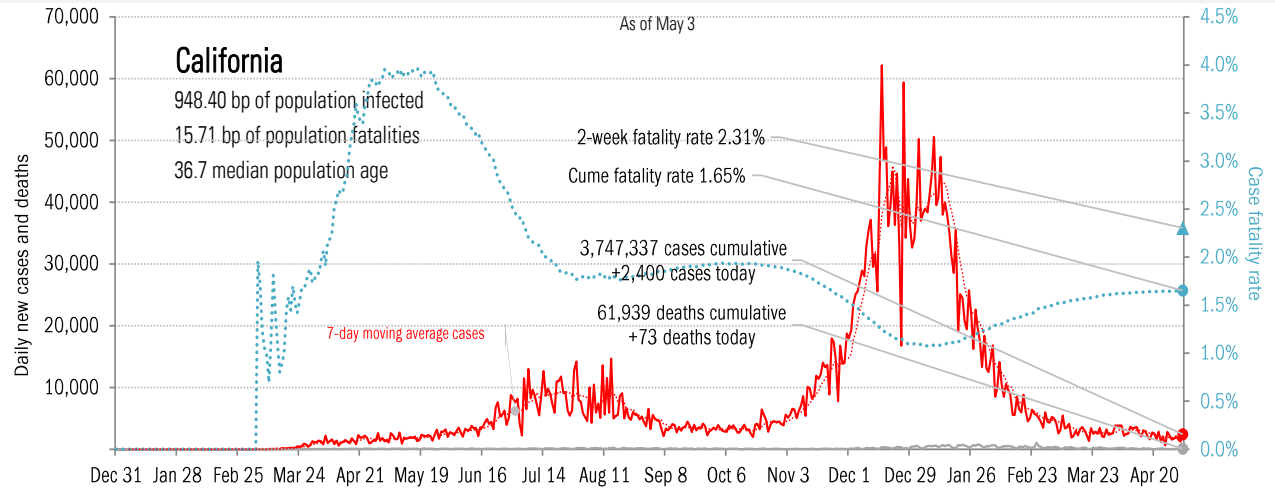
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



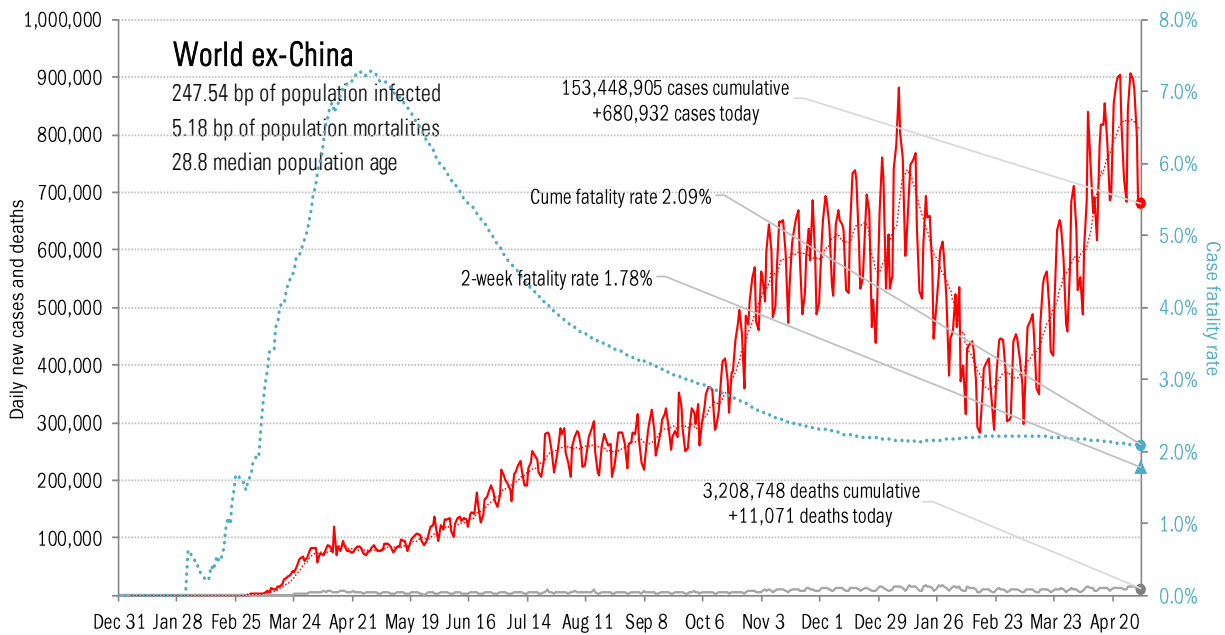
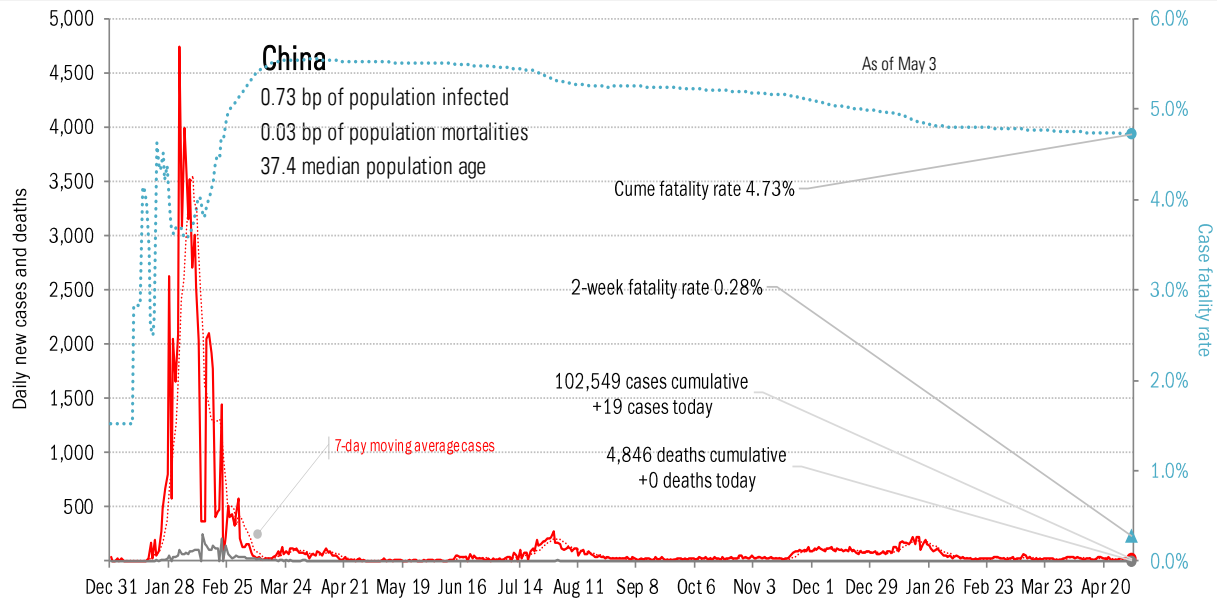
Source: [Johns Hopkins](#), TrendMacro calculations

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



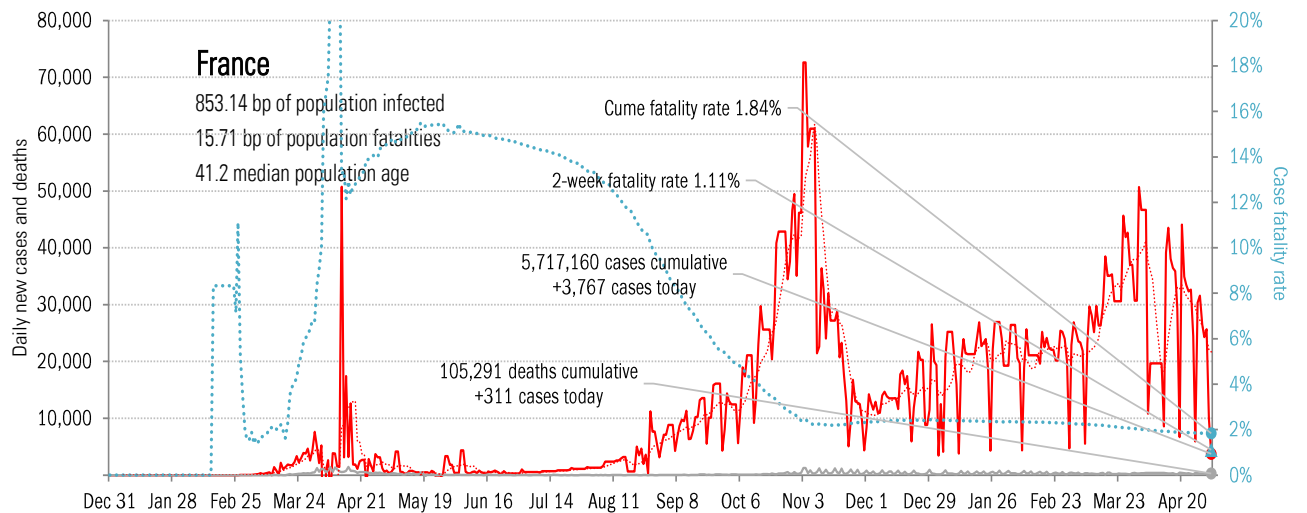
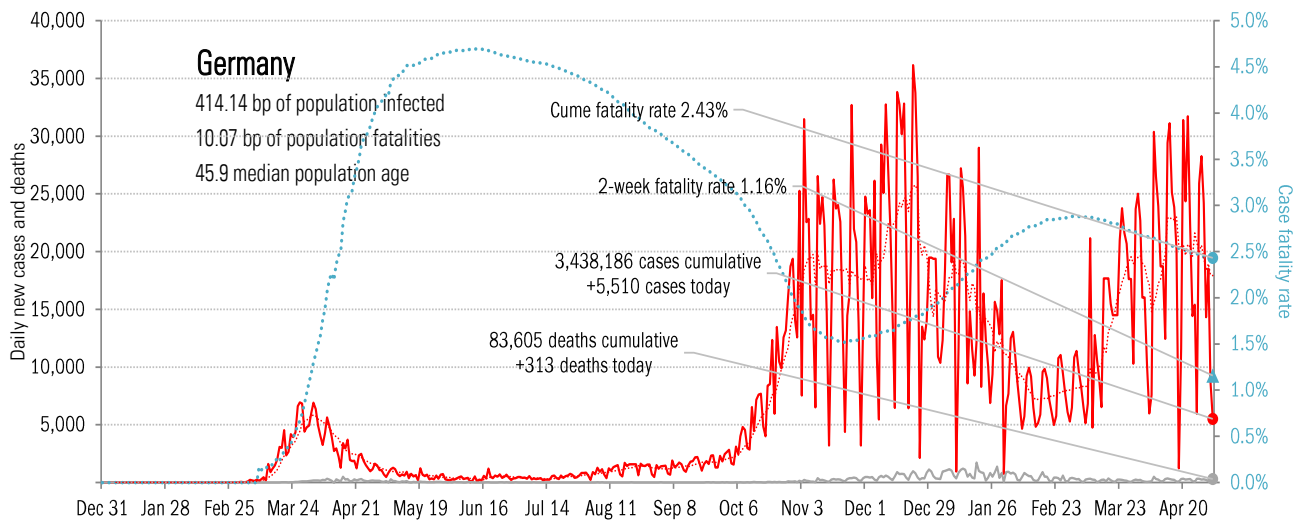
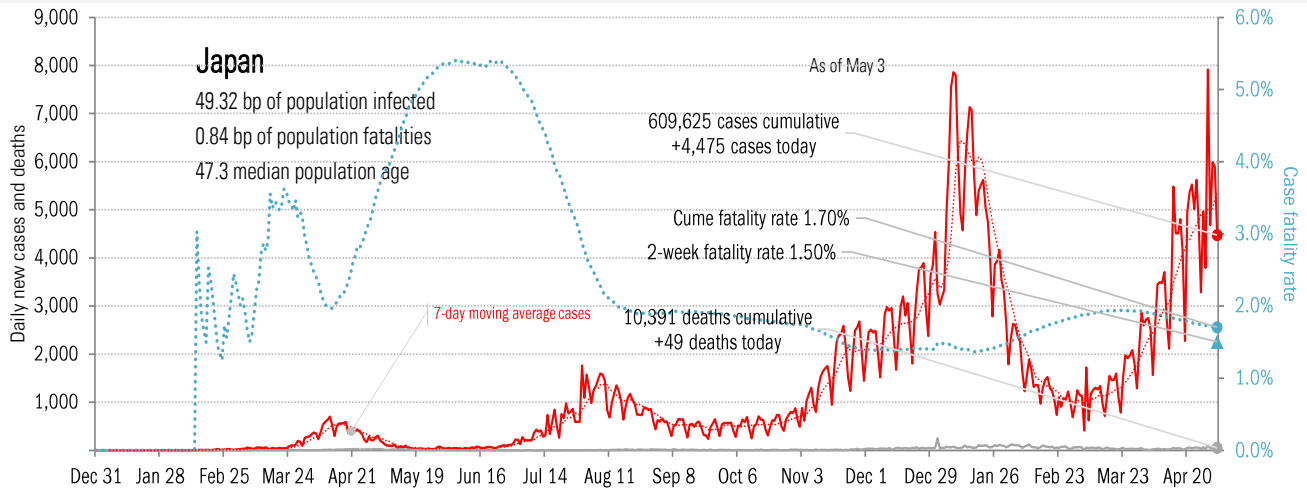
Source: [Johns Hopkins](#), TrendMacro calculations

# Patient zero... and then everyone else



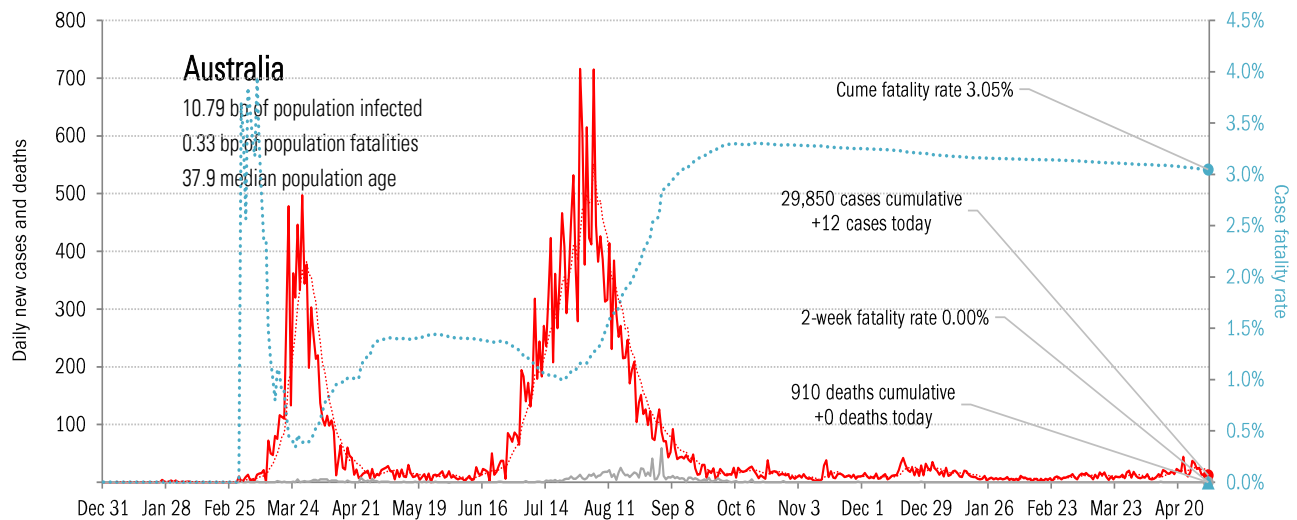
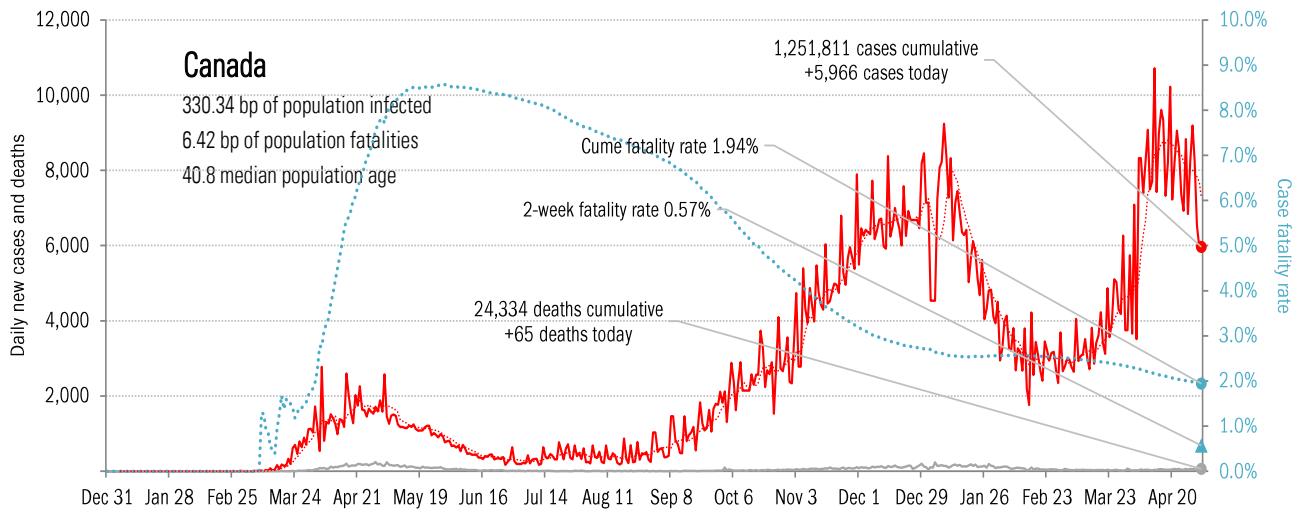
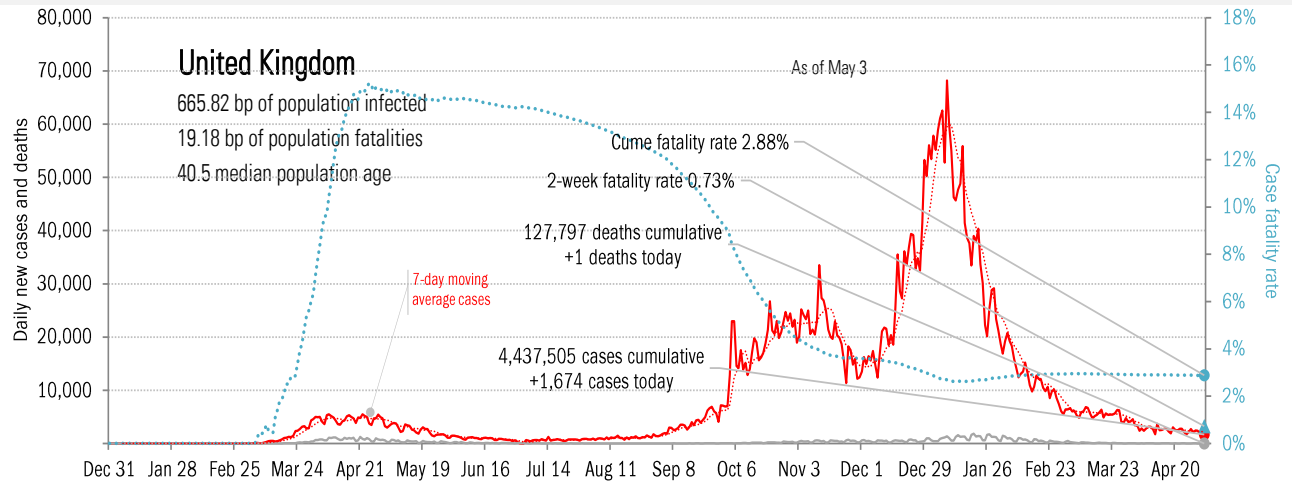
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the largest economies



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

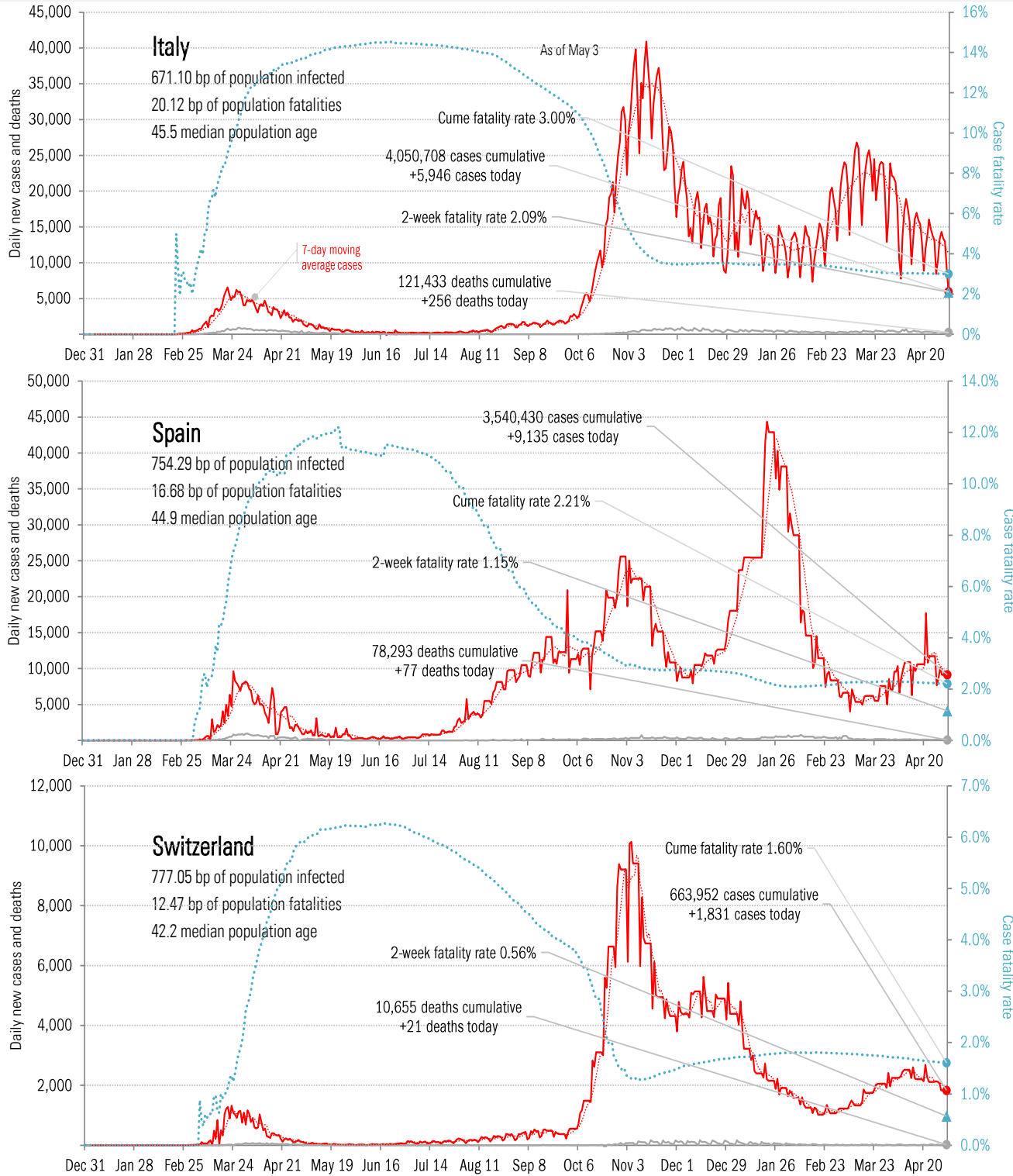
# Impact in The Anglosphere



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

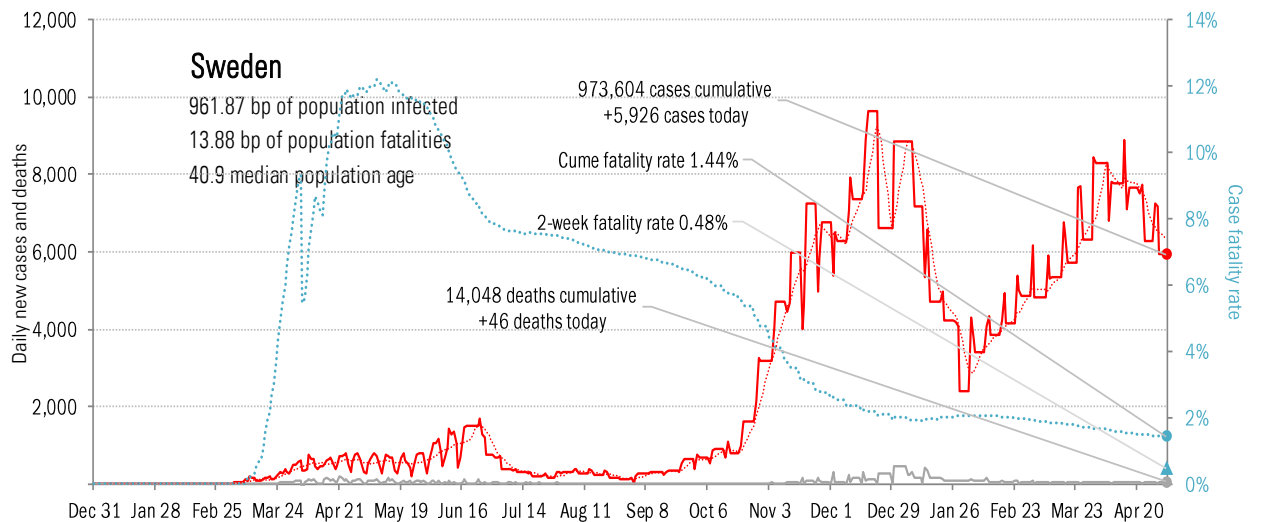
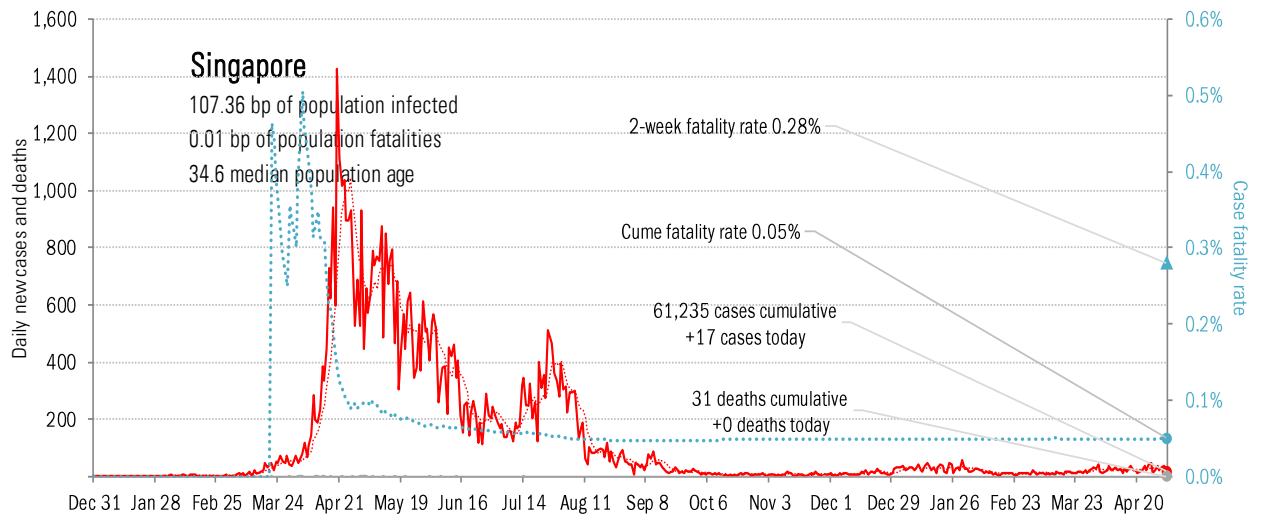
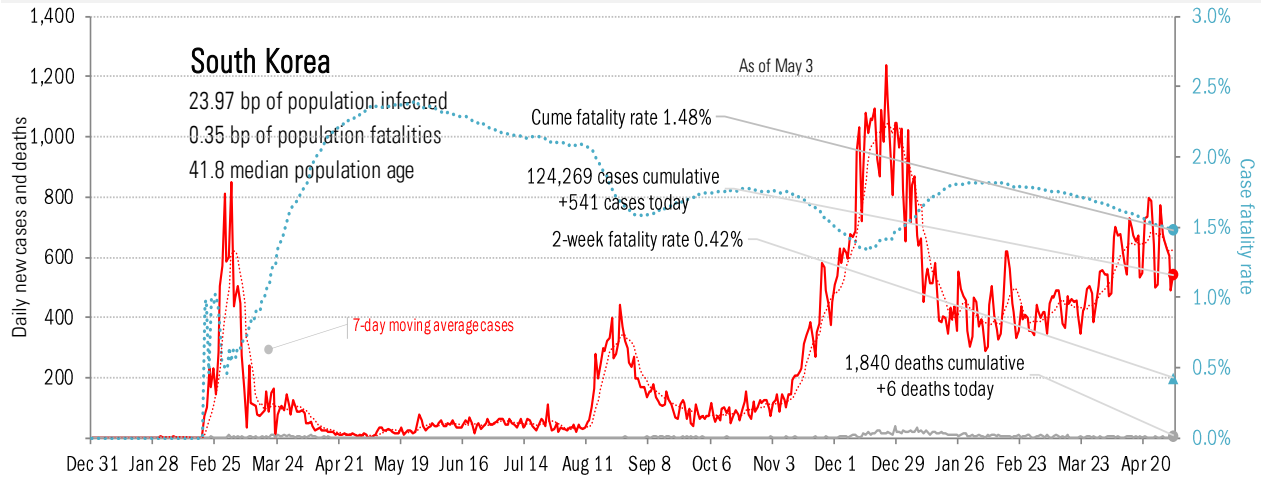


# Impact in continental Europe



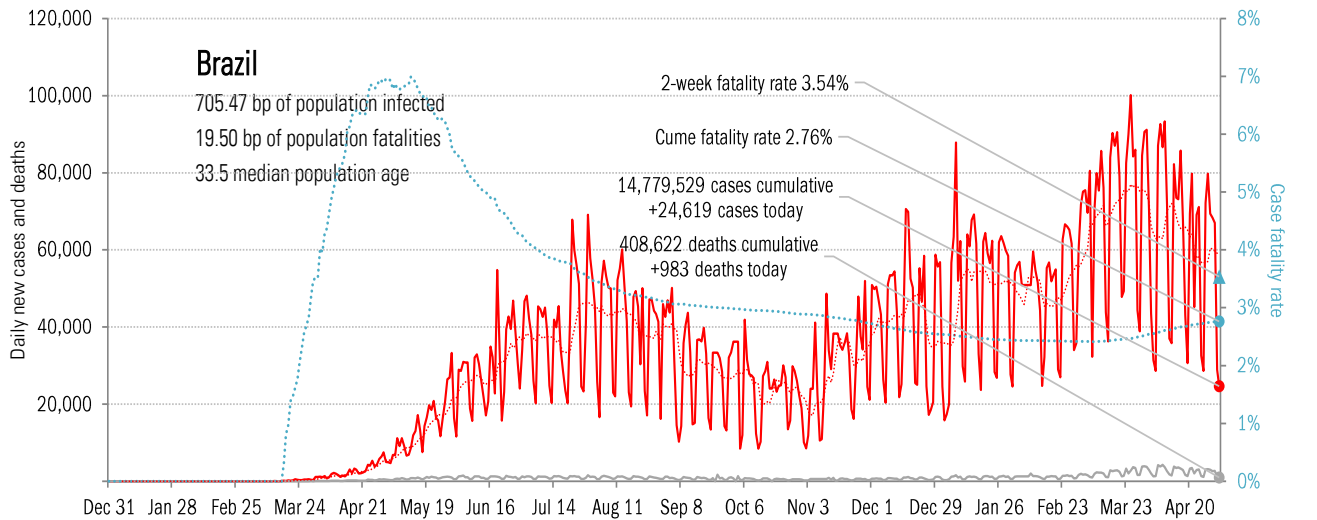
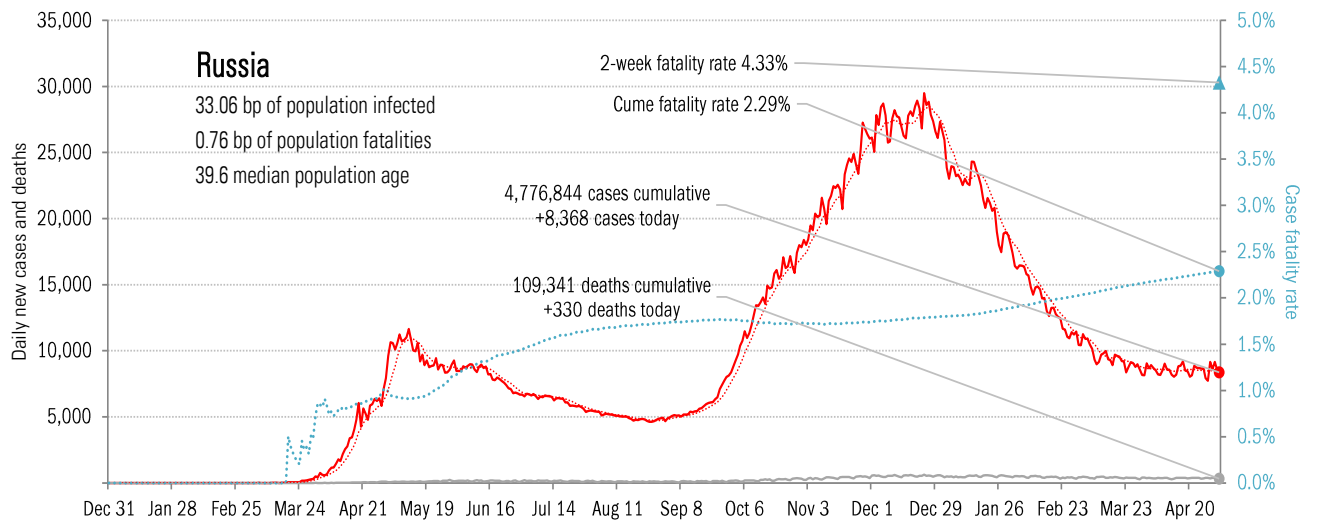
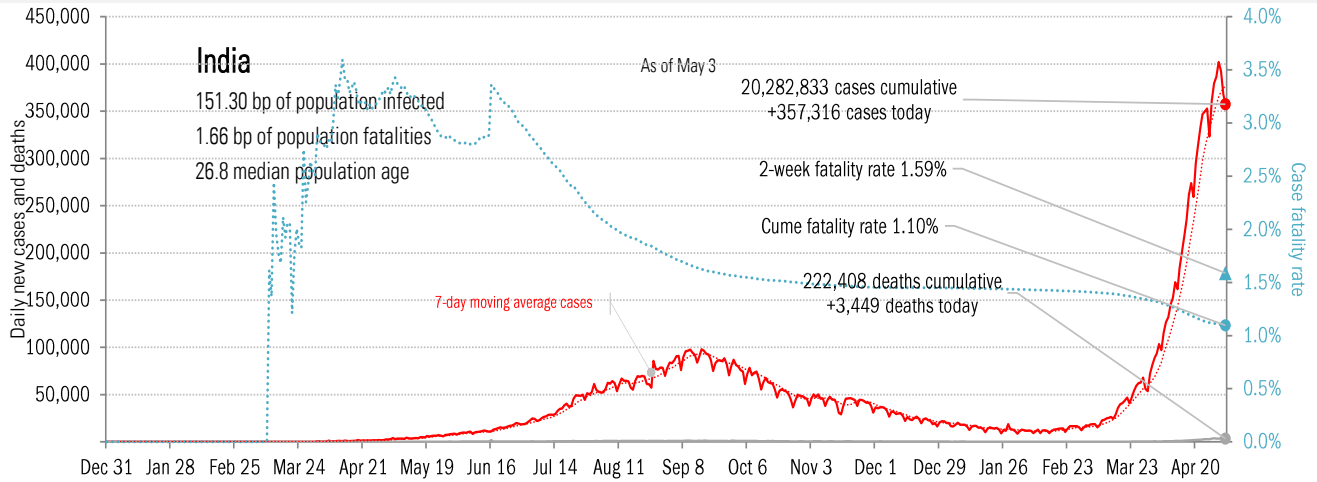
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



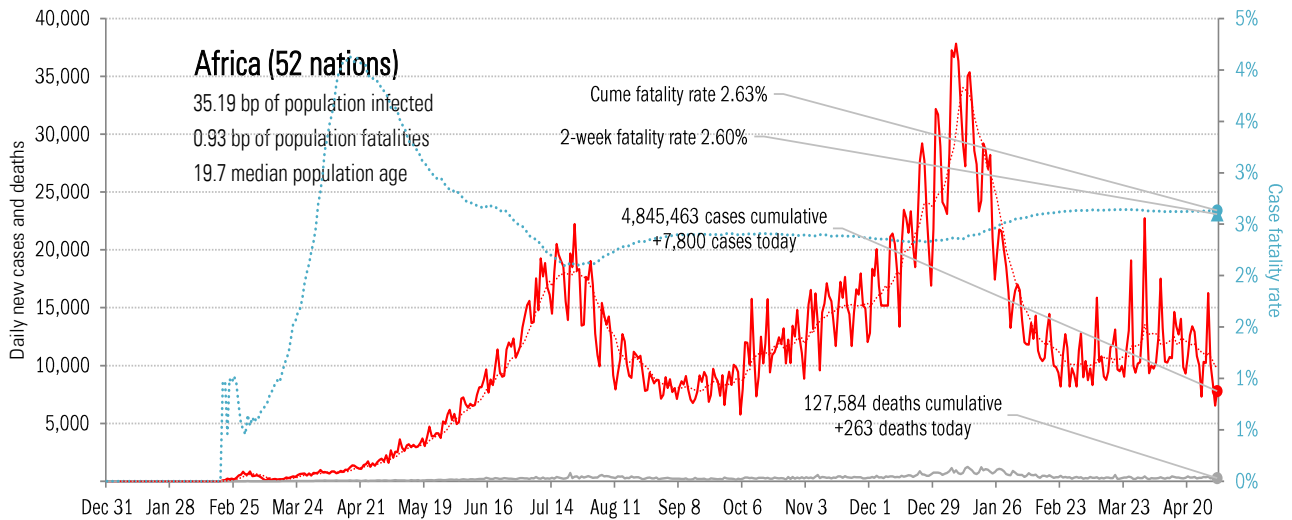
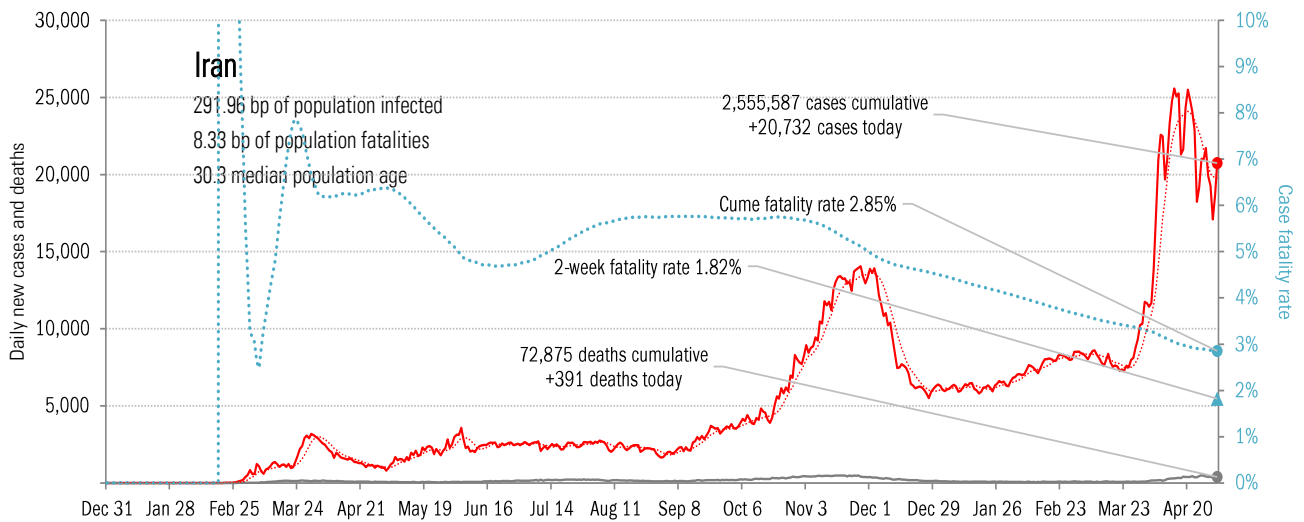
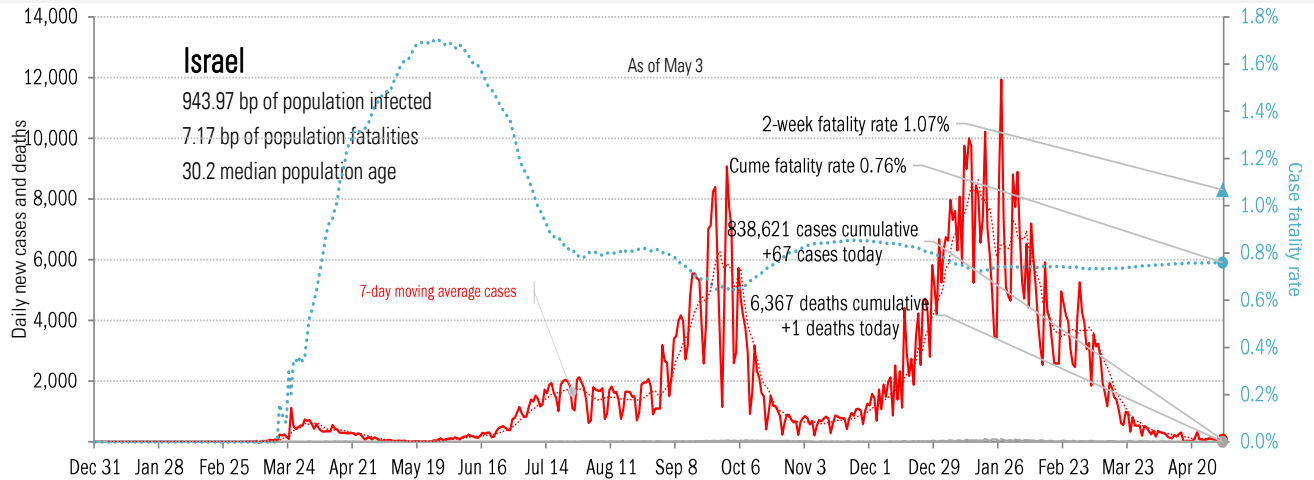
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



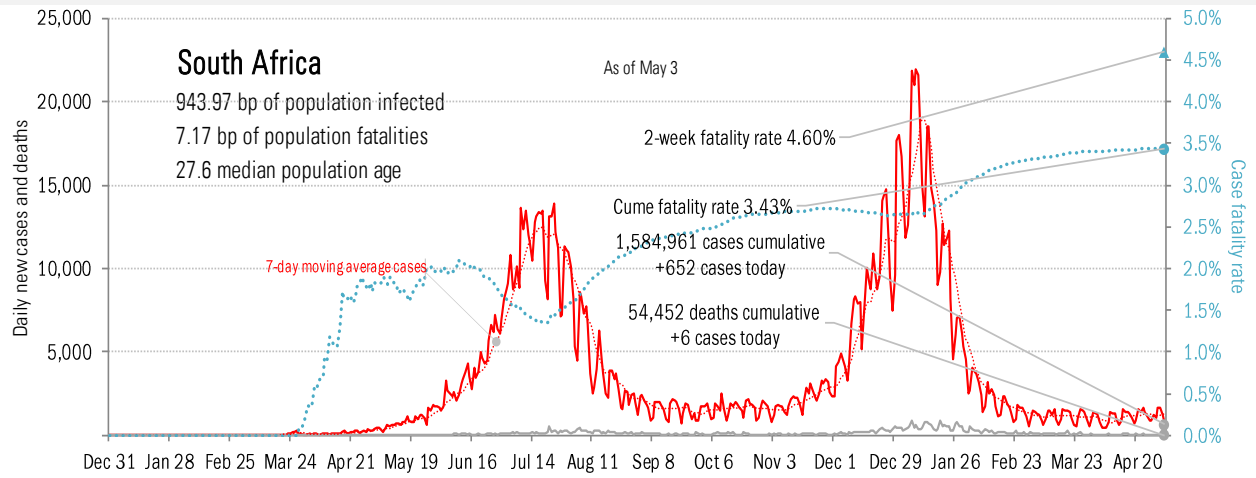
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

## Impact in Africa, continued



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