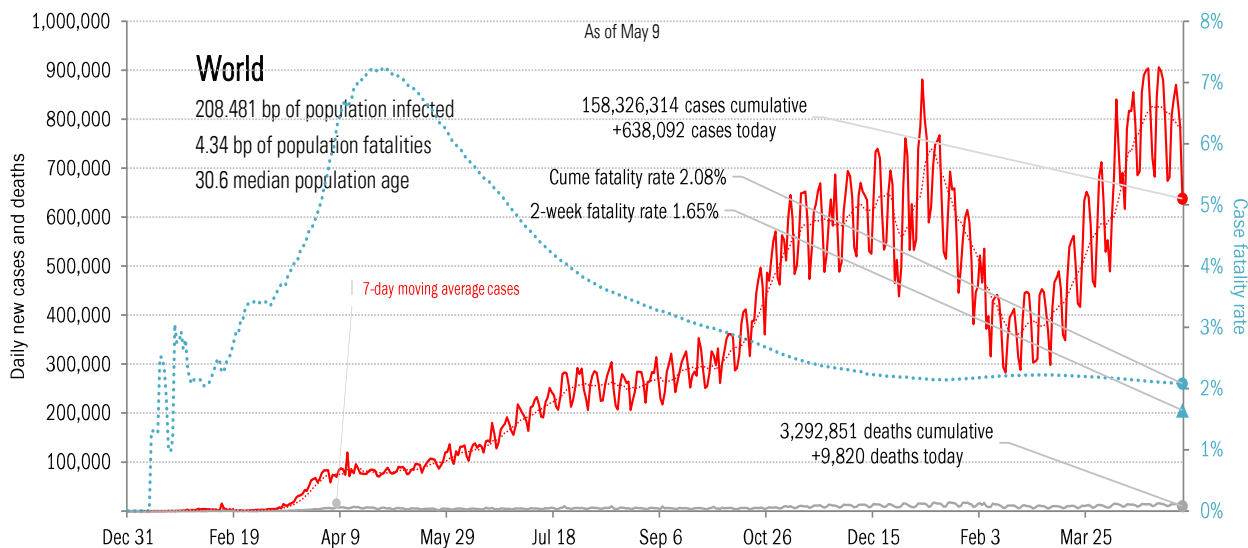
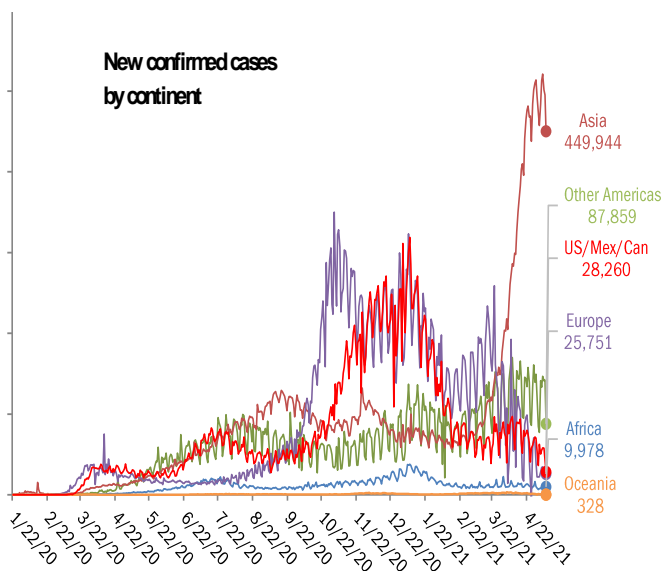


Data Insights: Covid-2019 Monitor

Monday, May 10, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+366,494	India	+3,769
Brazil	+38,911	Brazil	+1,024
United States	+21,392	Colombia	+495
Colombia	+17,222	Iran	+386
Turkey	+15,191	Russia	+328
Iran	+14,141	Argentina	+283
Argentina	+11,582	Turkey	+283
France	+9,128	Peru	+277
Nepal	+8,777	United States	+238
Russia	+8,290	Philippines	+203
+511,128		+7,286	
World	+638,092	World	+9,820
Top ten	80%	Top ten	74%



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

For more information contact us:

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The US scorecard

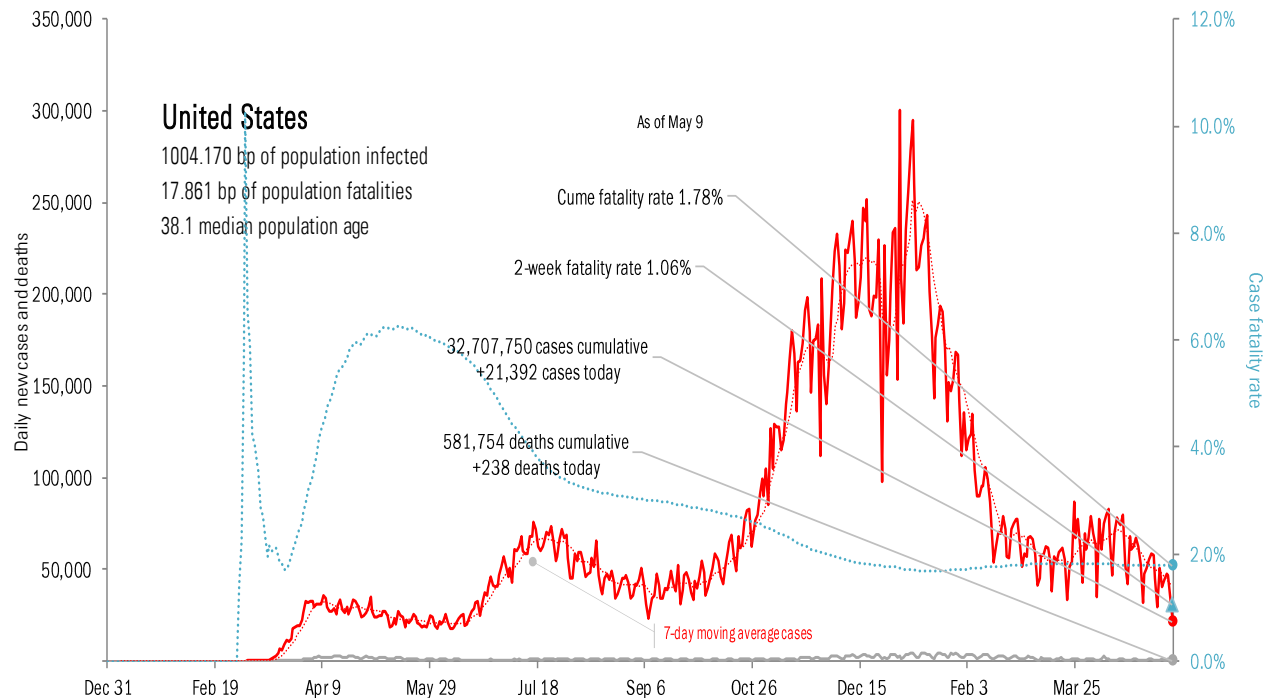
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
FL	+3,231		NY	+35		IL	+49		CA	3,758,137		CA	62,314		TX	242,383		RI	88%	MI	27%
NY	+2,373		CA	+34		GA	+28		TX	2,914,504		NY	52,688		CA	232,240		MA	84%	ME	19%
IL	+1,744		FL	+31		CA	+14		FL	2,269,806		TX	50,643		FL	172,361		PA	83%	MD	19%
PA	+1,058		IL	+31		CO	+14		NY	2,072,426		FL	35,731		NY	130,736		MD	82%	CO	18%
TX	+1,024		TX	+17		CR	+14		IL	1,354,869		PA	26,493		GA	103,963		MI	81%	MN	16%
CA	+1,022		IN	+13		CH	+12		PA	1,174,067		NJ	25,801	#N/A	0	CT	81%	WA	15%		
CO	+927		NJ	+10		KY	+10		GA	1,109,958		IL	24,577		CH	169,493		MO	80%	RI	14%
IN	+905		VA	+10		NC	+8		CH	1,083,609		GA	20,367		IL	77,815		FL	79%	PA	14%
MA	+858		PA	+9		NH	+7		NJ	1,007,894		CH	19,428		KY	73,238		GA	79%	IL	14%
MN	+803		KY	+8		WI	+7		NC	980,498		MI	19,377		MI	68,014		DC	79%	ID	14%
	+13,945			+198			+163			17,725,768			337,419			1,270,243					
All states	+21,392			+238			-205		All states	32,707,750			581,754			2,277,129		All states	70%		67%
Top ten	65%			83%			-80%		Top ten	54%			58%			56%		Median	72%		10%

Some states not reporting

Five most improved US states

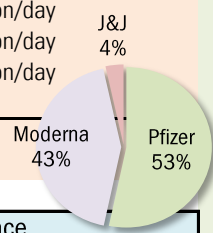
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-2,577	MI	-124	LA	-130	VT	+124 bp
WA	-1,497	FL	-34	AZ	-51	CR	+92 bp
PA	-1,222	GA	-32	MO	-32	CT	+80 bp
FL	-746	WI	-27	TN	-28	CO	+79 bp
NY	-691	CA	-26	AR	-26	MA	+72 bp



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

Rolling out the vaccines in the US and the world

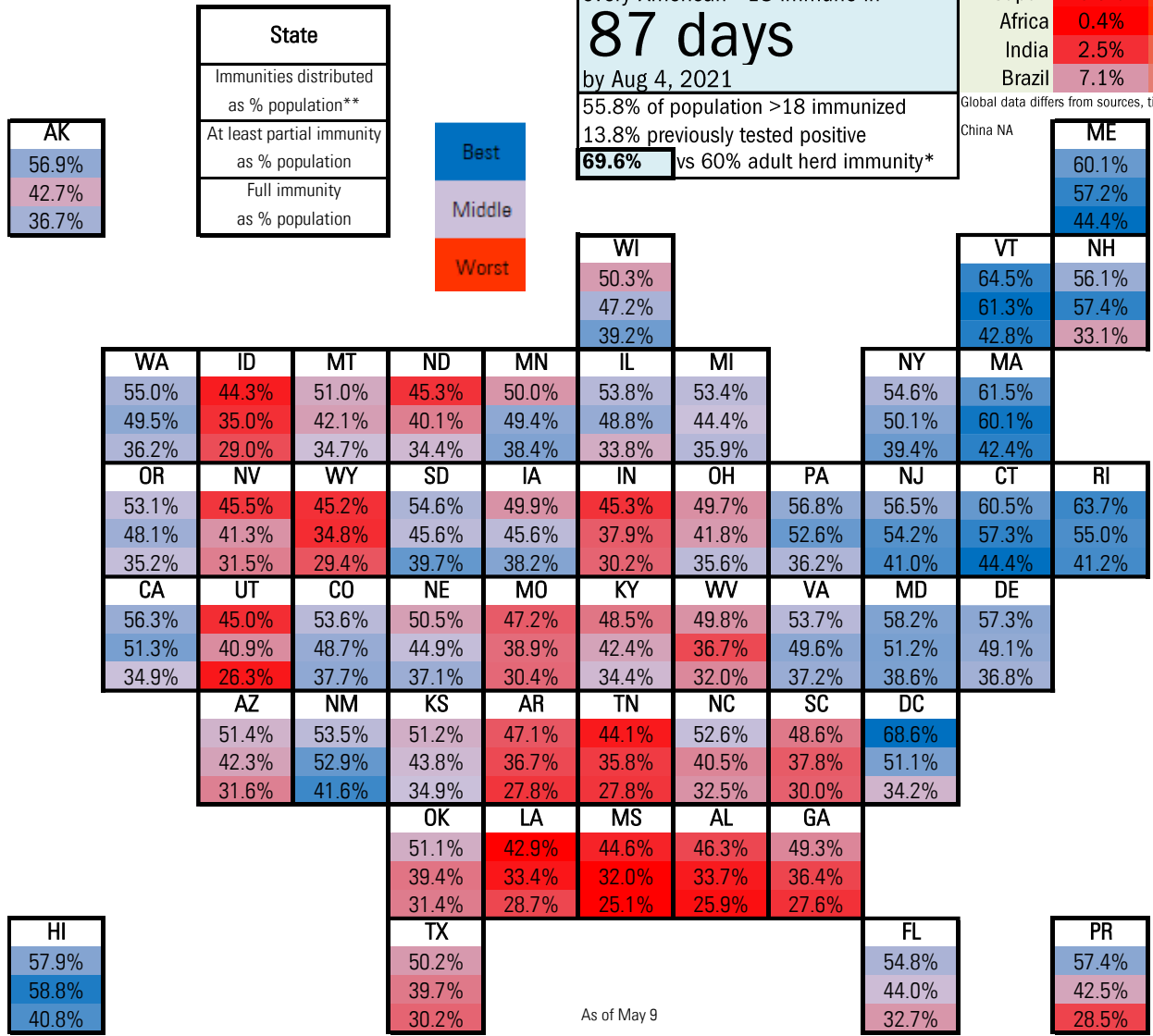
US overall	Over last day	Immunity	Full	Partial
341.92 million doses distributed	+0.00 million/day	US	34.2%	45.5%
268.27 million doses administered	+2.41 million/day	UK	26.0%	52.1%
156.39 million persons partially immunized	+0.81 million/day	France	11.5%	26.0%
117.87 million persons fully immunized	+1.66 million/day	Spain	12.7%	28.4%
		Germany	9.0%	32.1%
		Italy	12.2%	27.8%
		Australia	1.7%	0.6%
		Israel	58.7%	62.6%
		Canada	3.3%	38.9%
		Japan	0.9%	2.6%
		Africa	0.4%	1.1%
		India	2.5%	9.7%
		Brazil	7.1%	14.9%



78.5% of distributed doses administered
 46.8% of US pop partial 35.3% full immunity

At today's dosing pace,
 every American >18 immune in
87 days
 by Aug 4, 2021
 55.8% of population >18 immunized
 13.8% previously tested positive
69.6% vs 60% adult herd immunity*

Global data differs from sources, timing

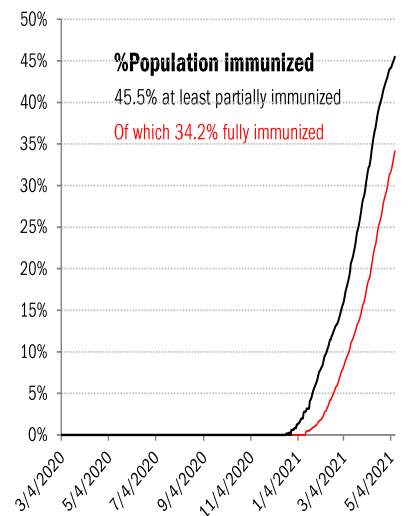
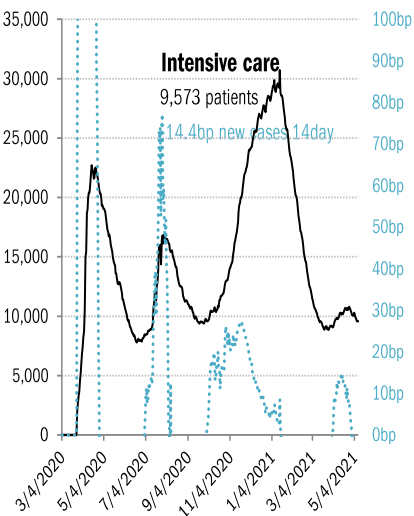
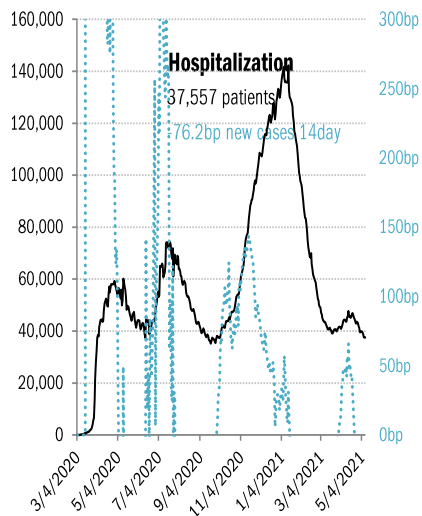
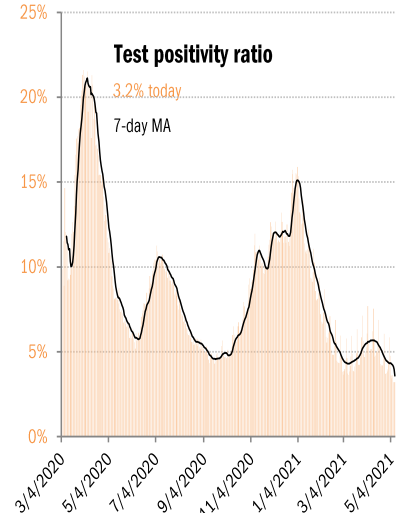
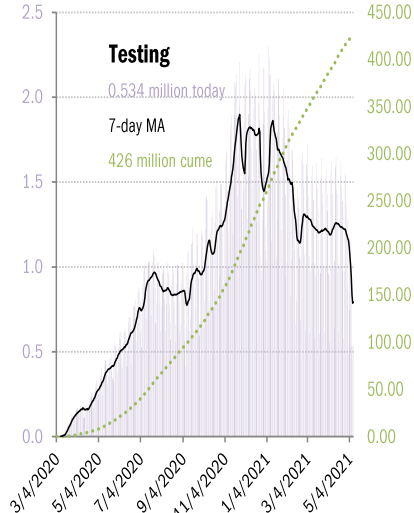
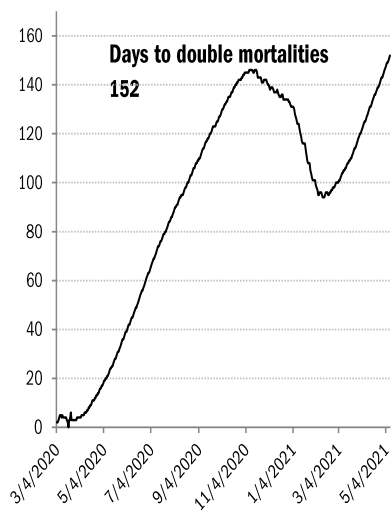
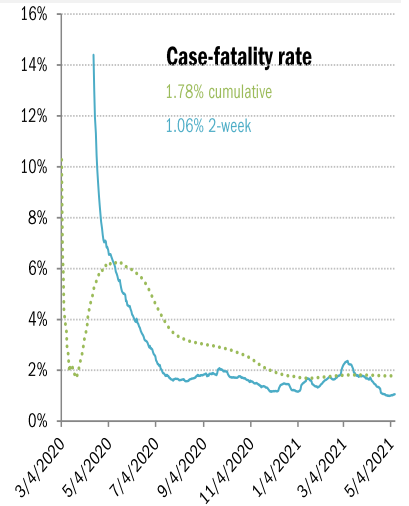
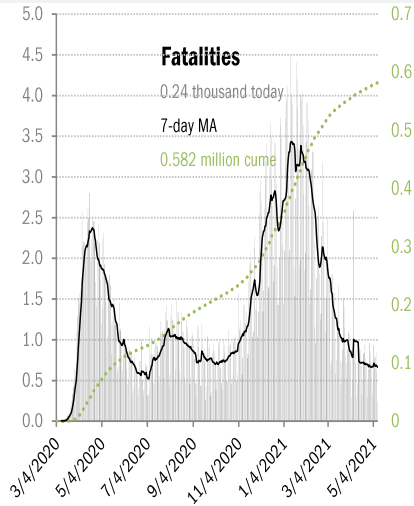
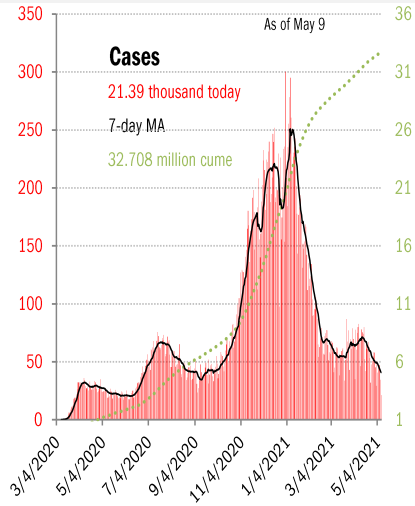


* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.
 ** One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

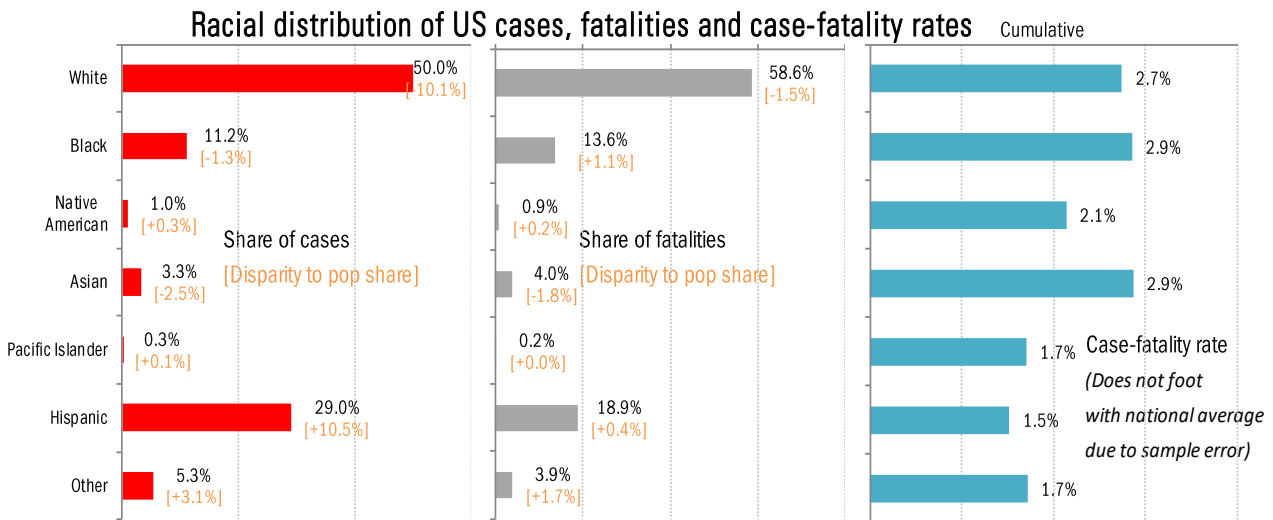
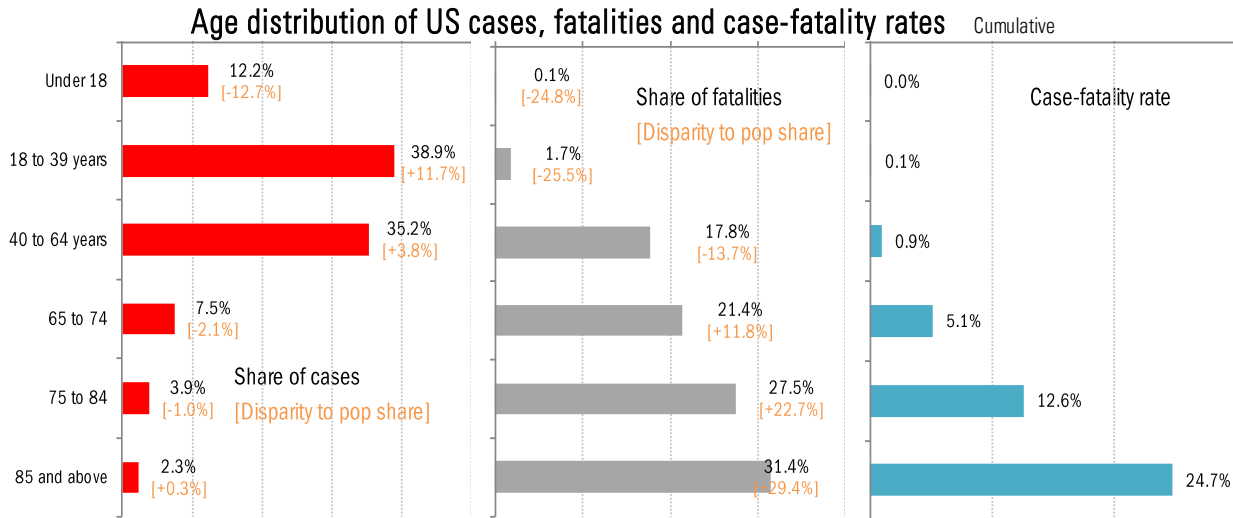
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

US deep-dive

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

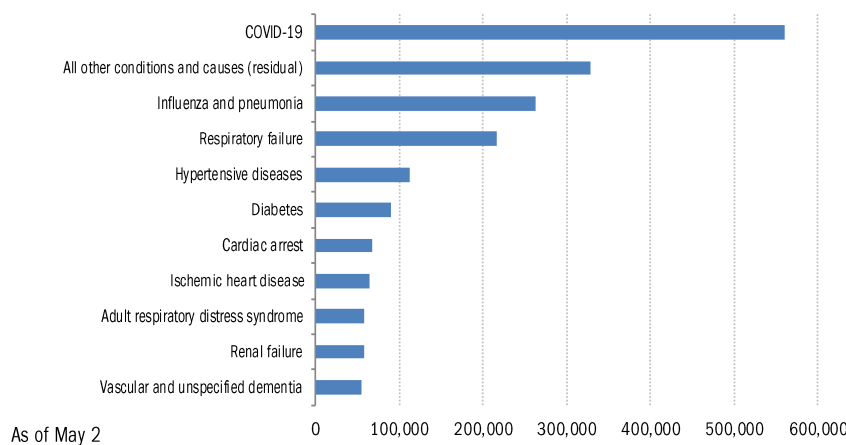


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations



Comorbidities

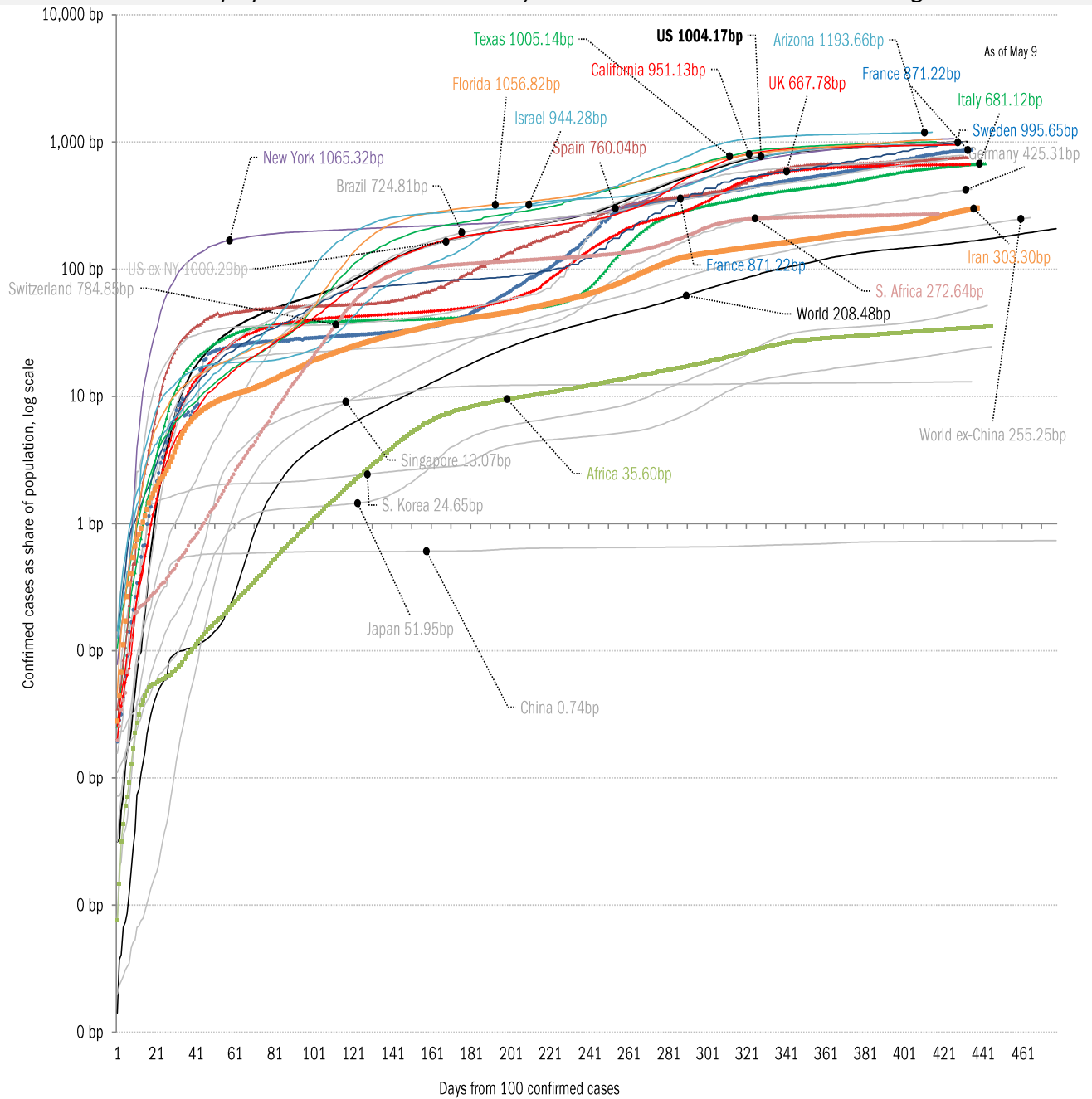
Top-ten joint causes of Covid mortalities, cumulative



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

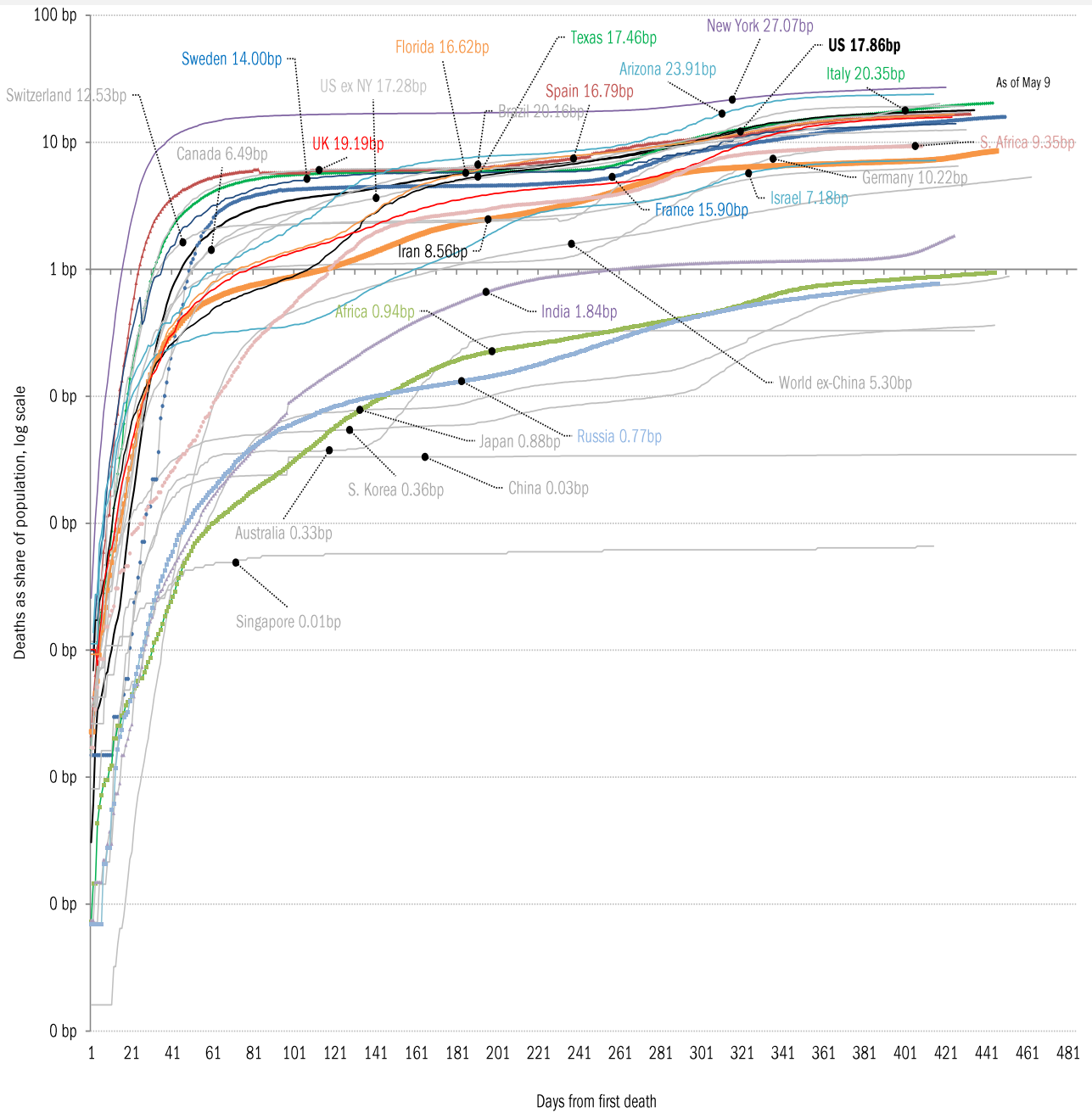
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

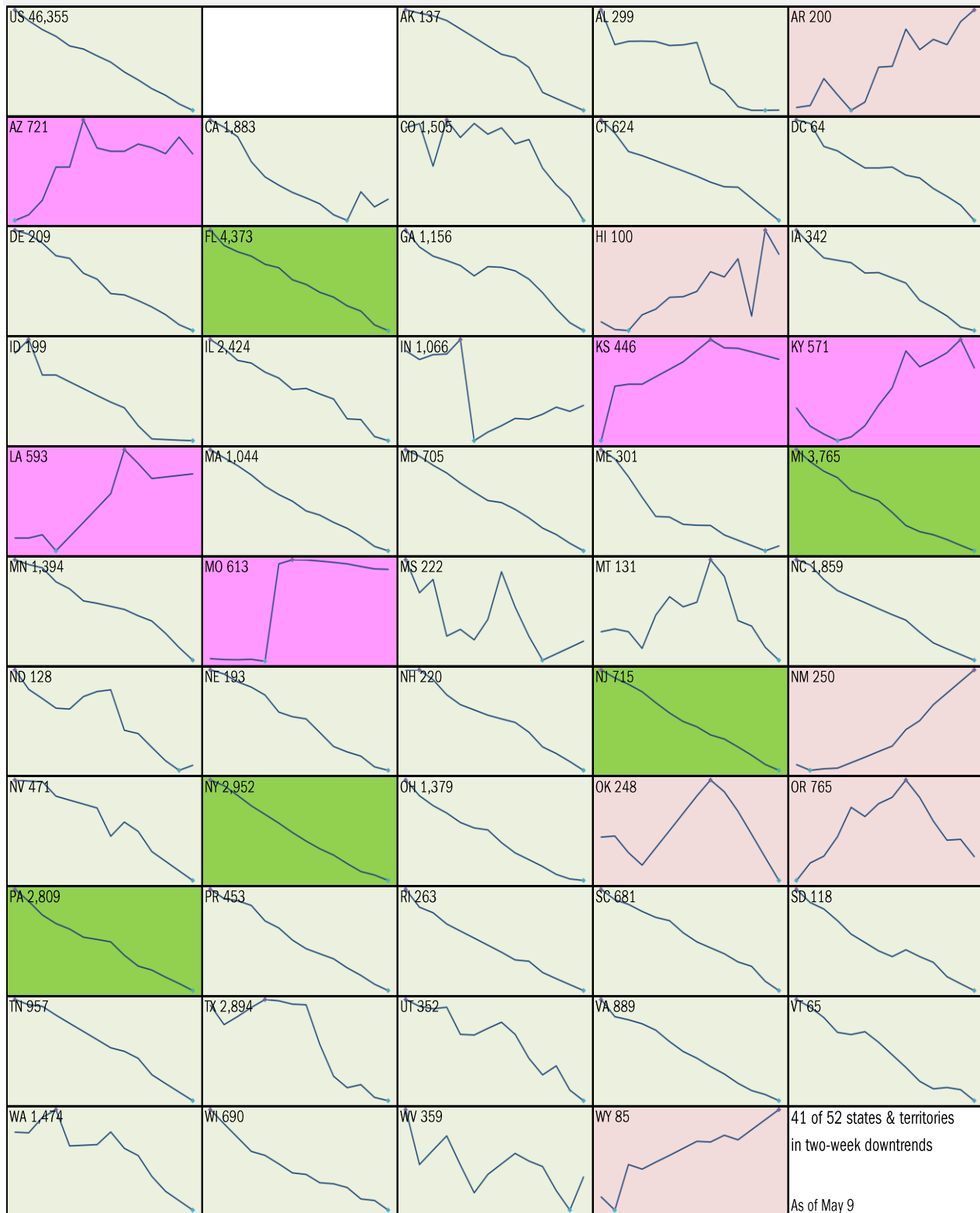
Vertical: days to double deaths Horizontal: days from first death

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

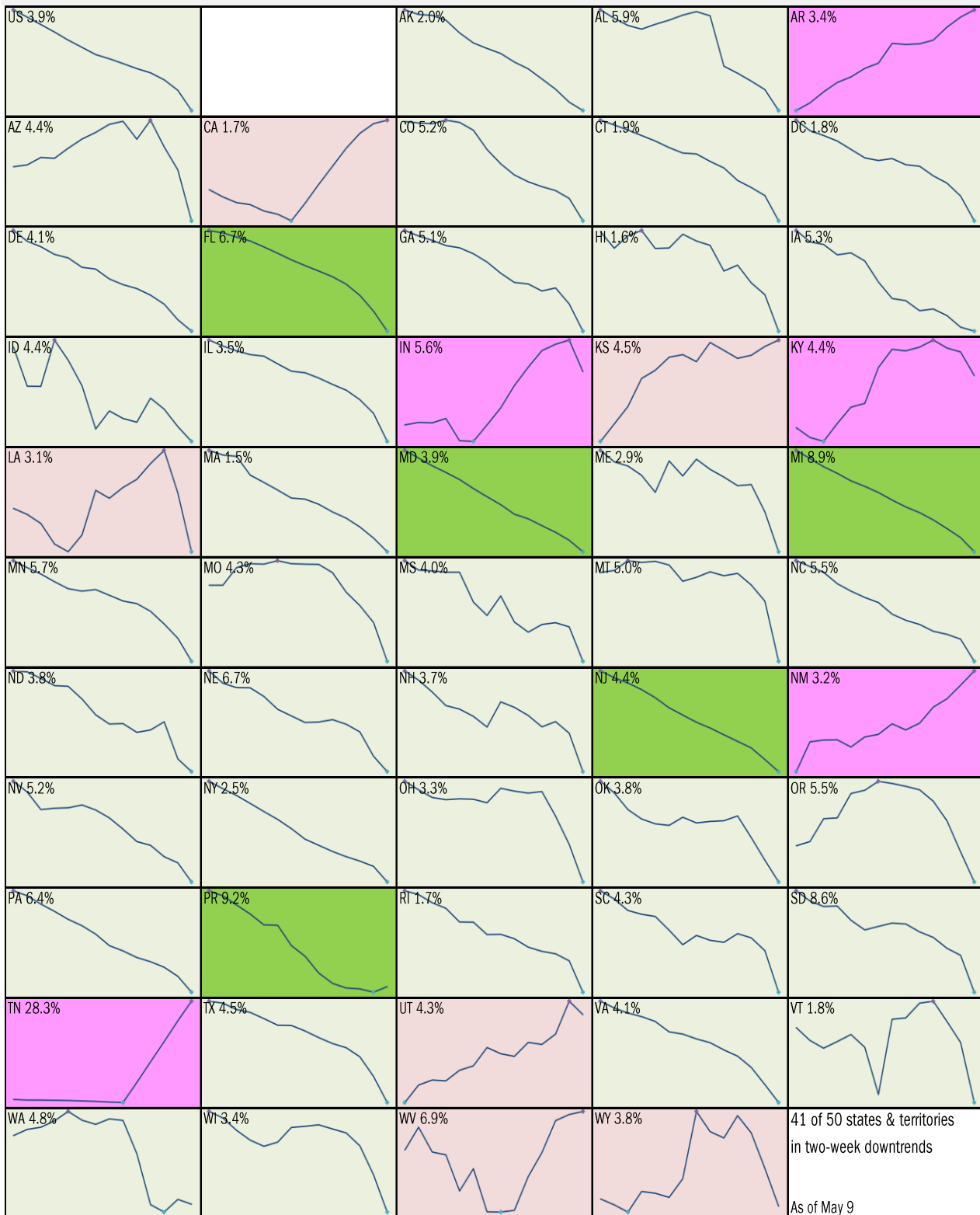


Source: [Johns Hopkins](#), TrendMacro calculations

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

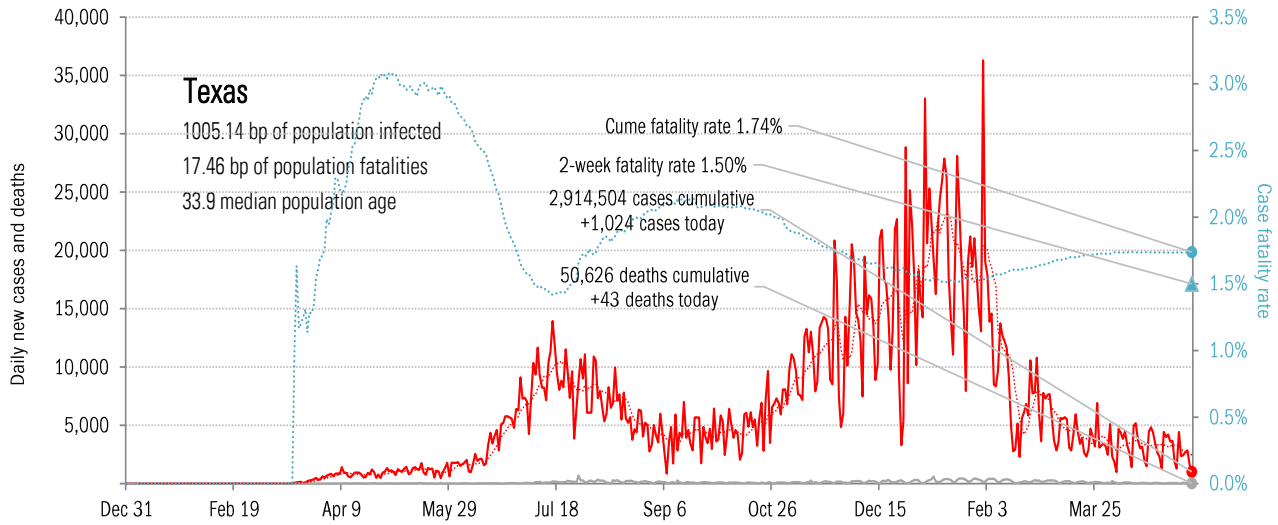
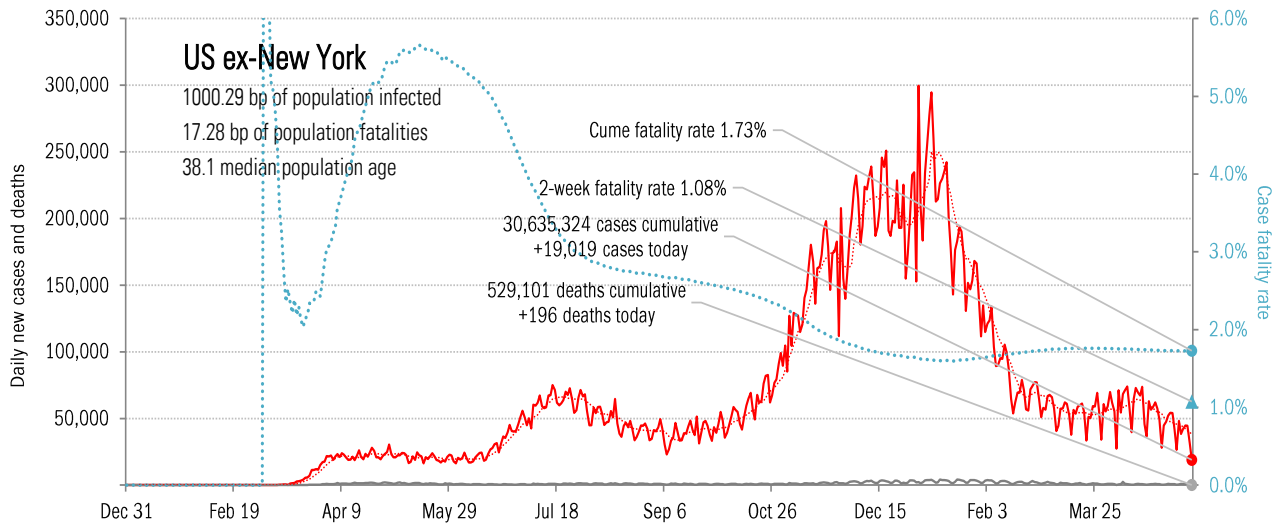
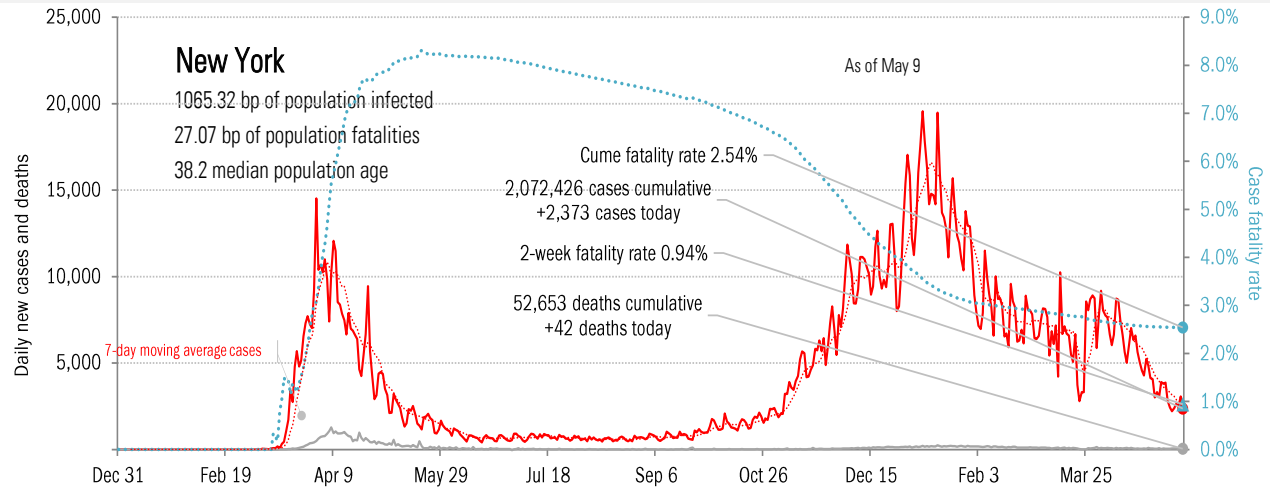
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



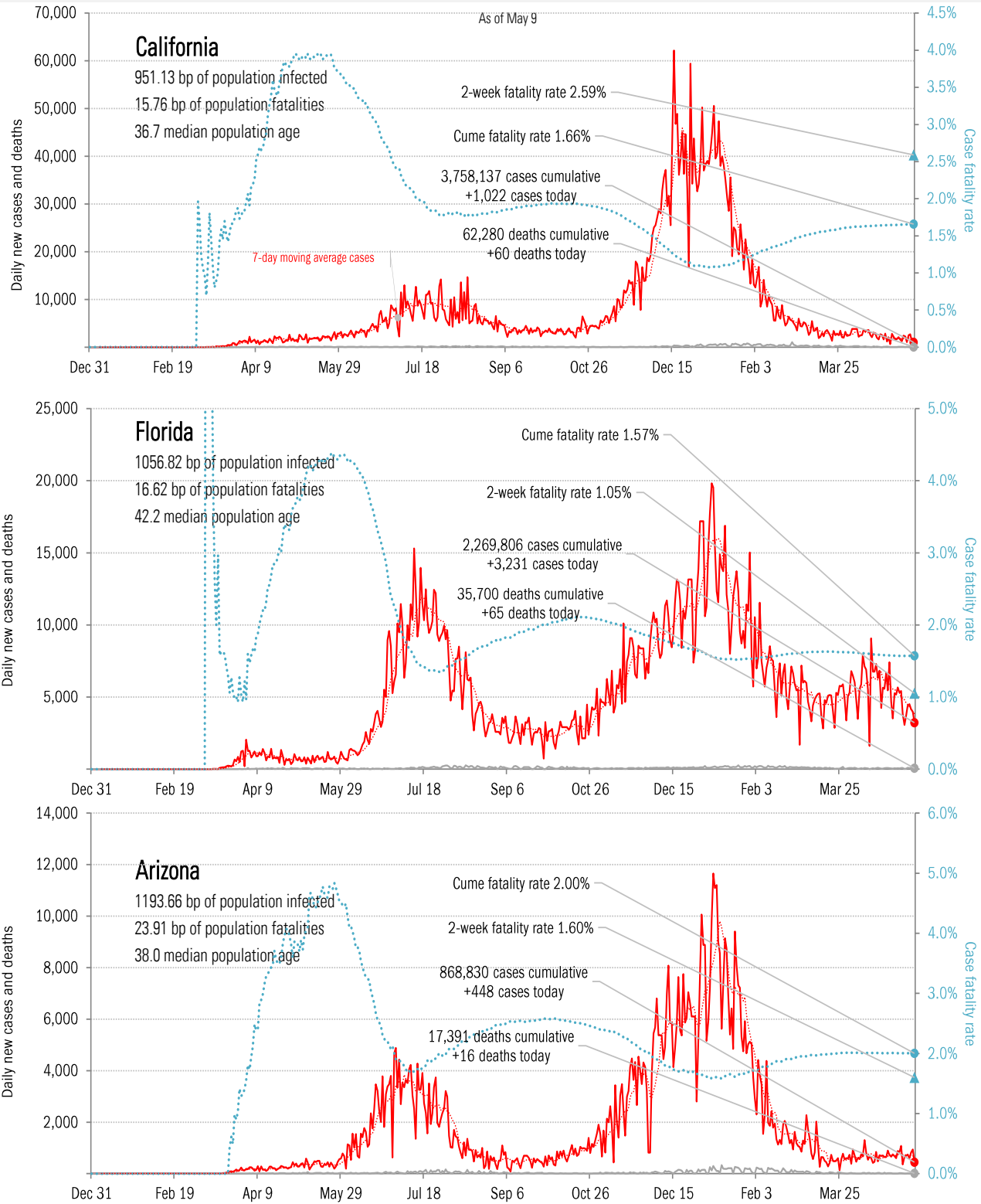
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



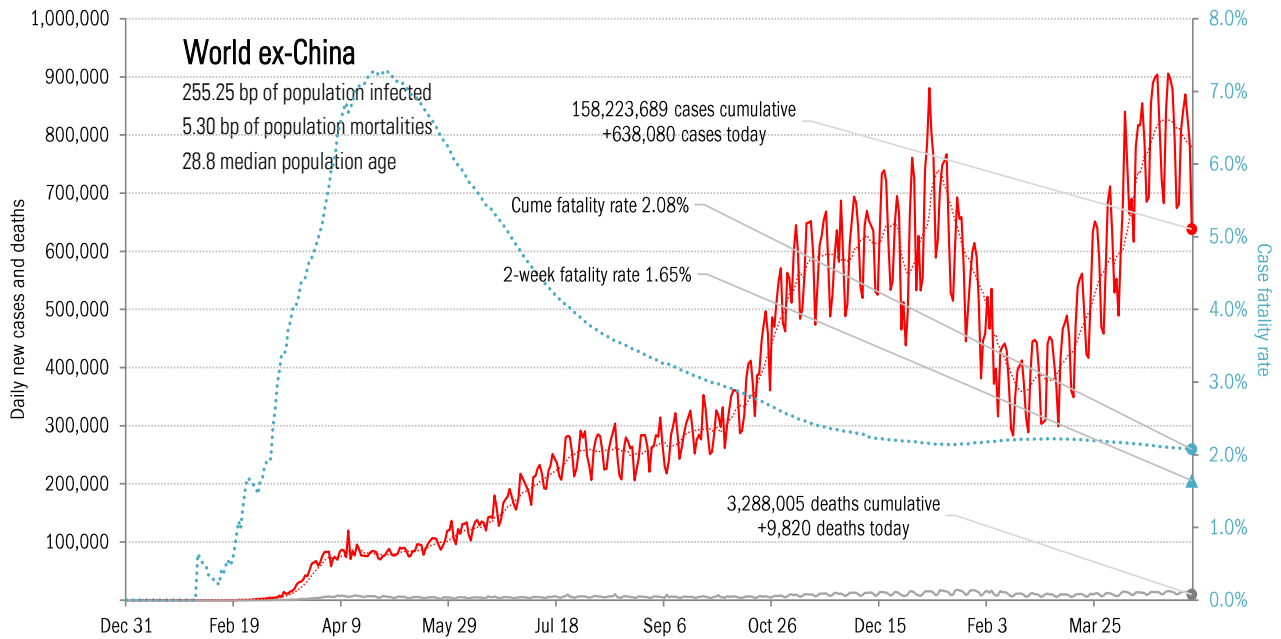
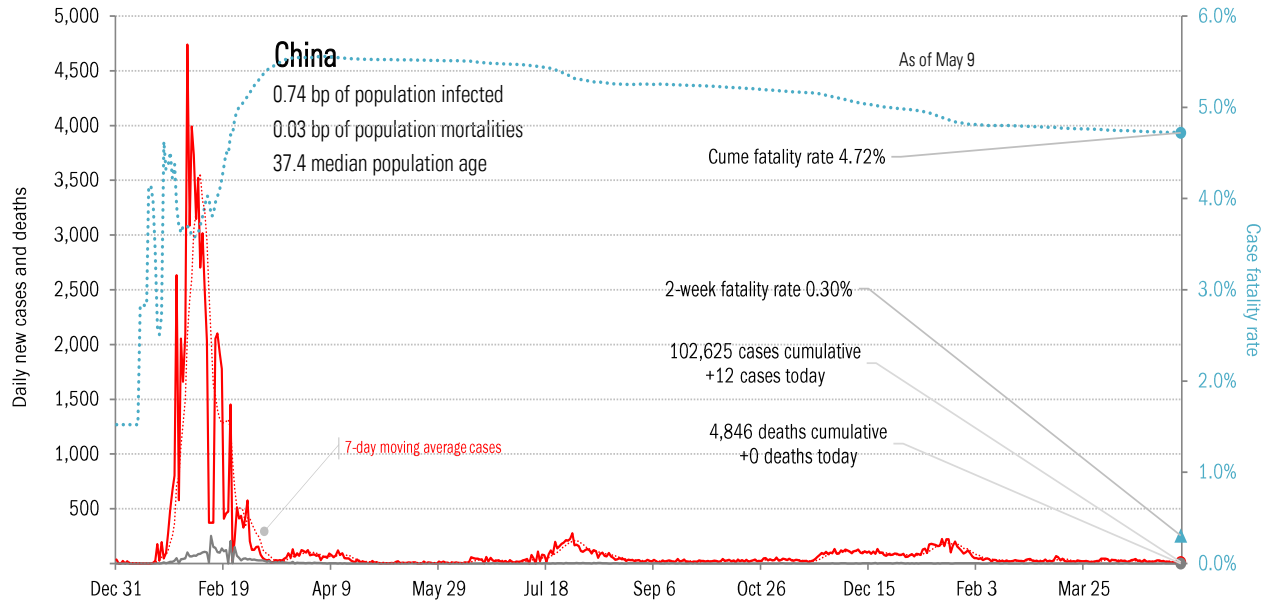
Source: [Johns Hopkins](#), TrendMacro calculations

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



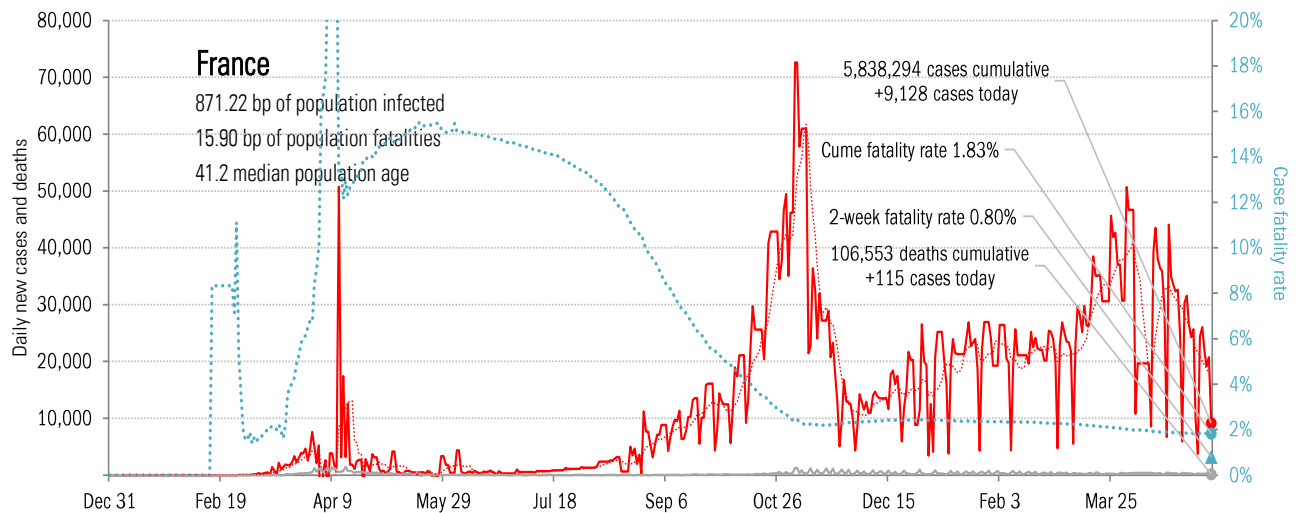
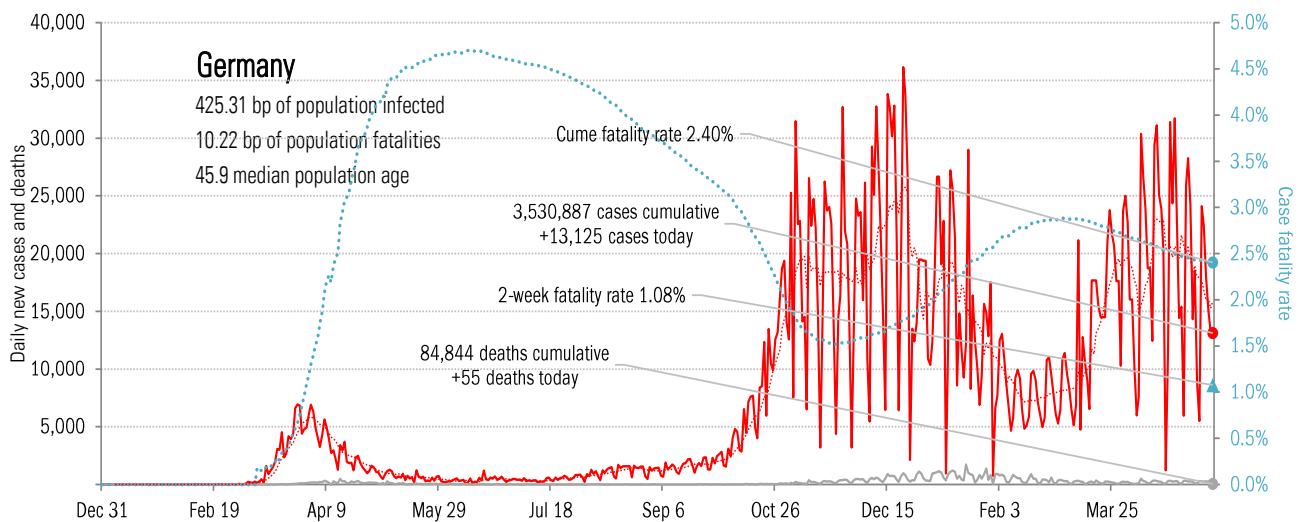
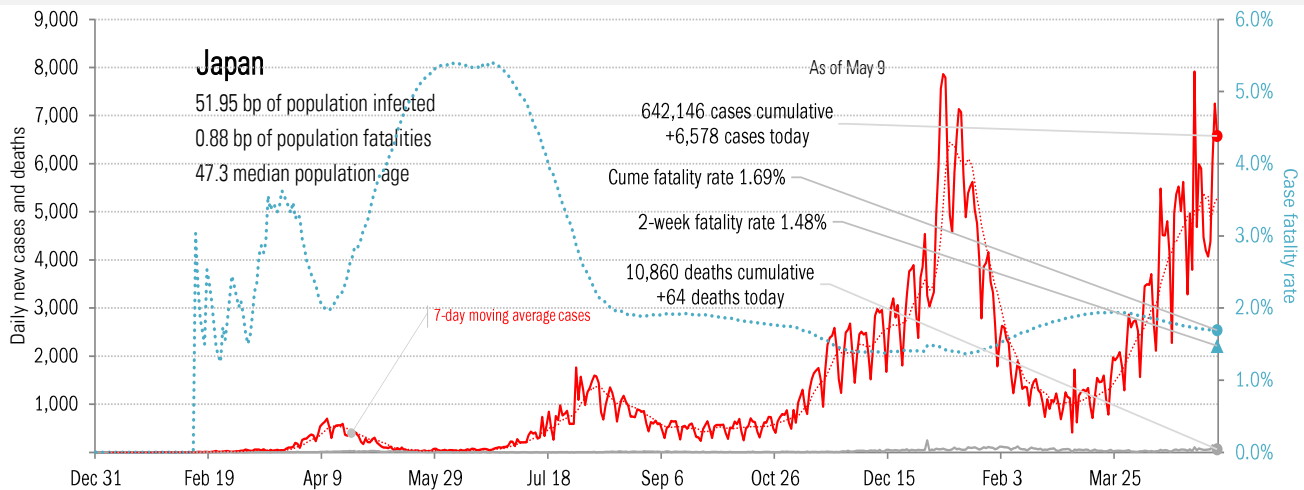
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



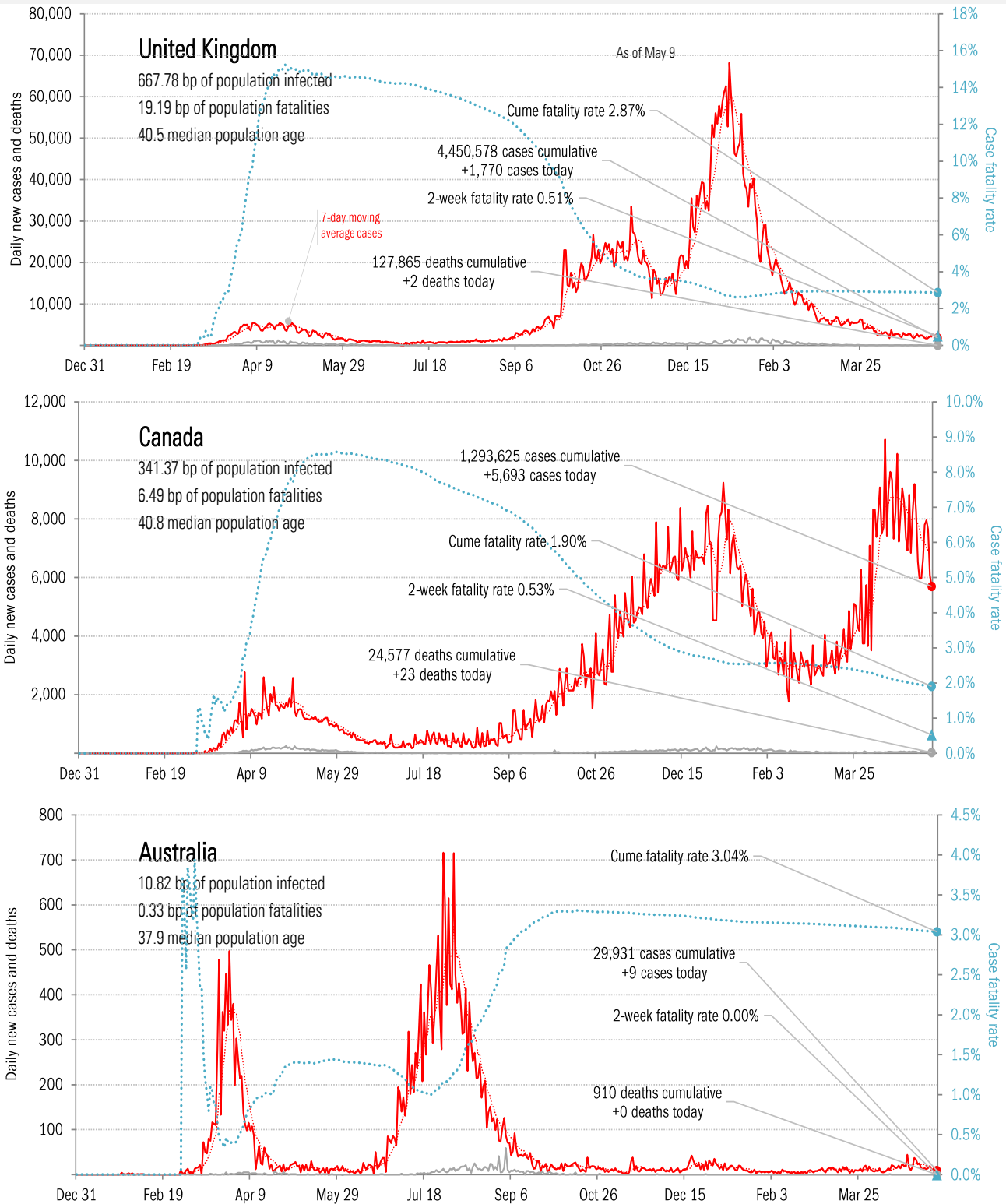
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



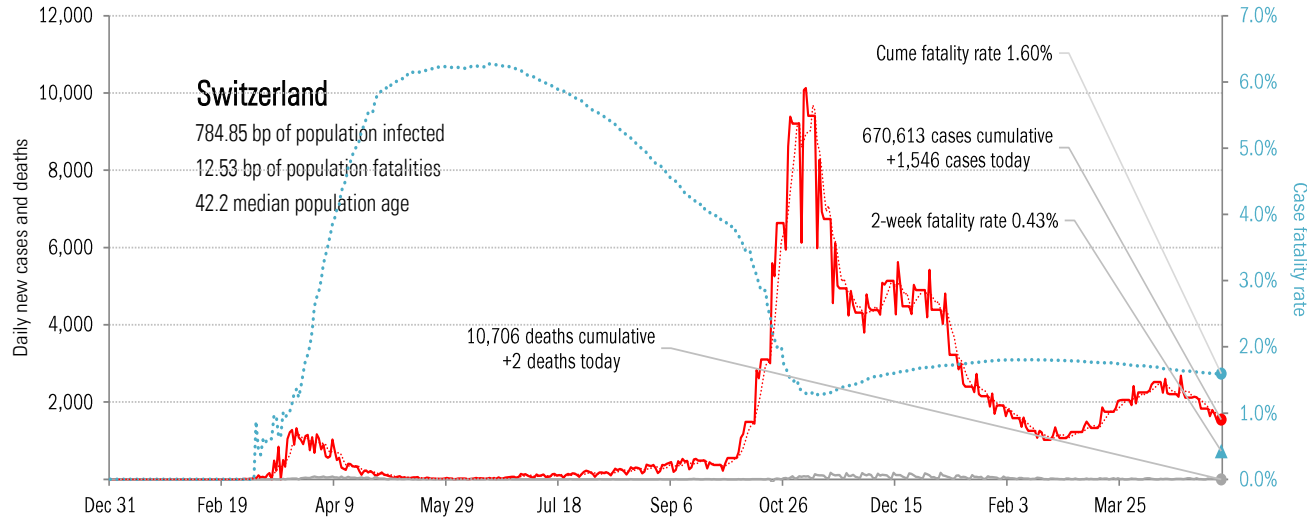
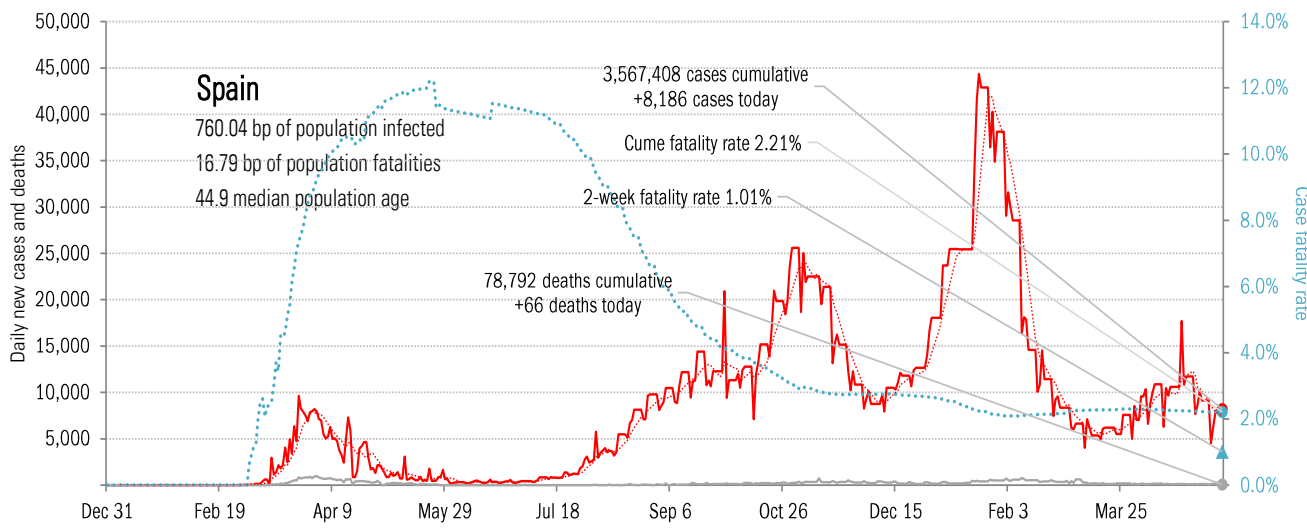
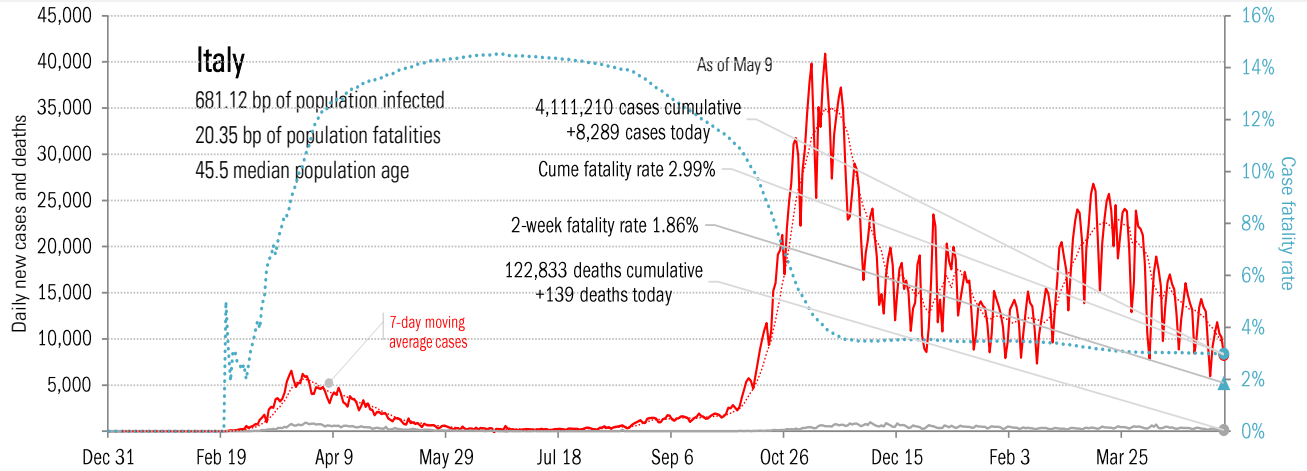
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



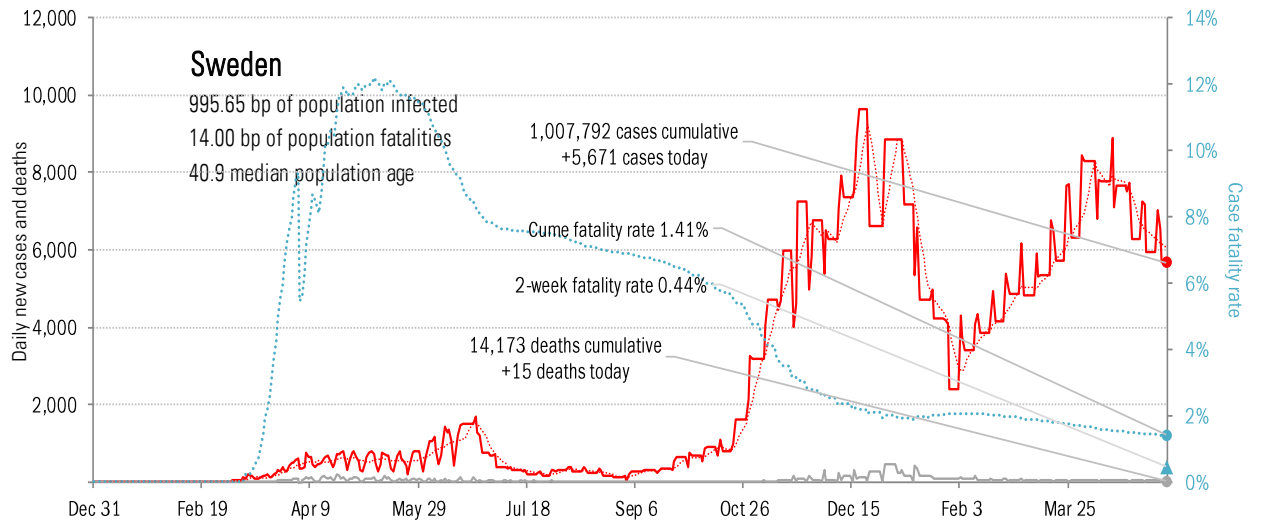
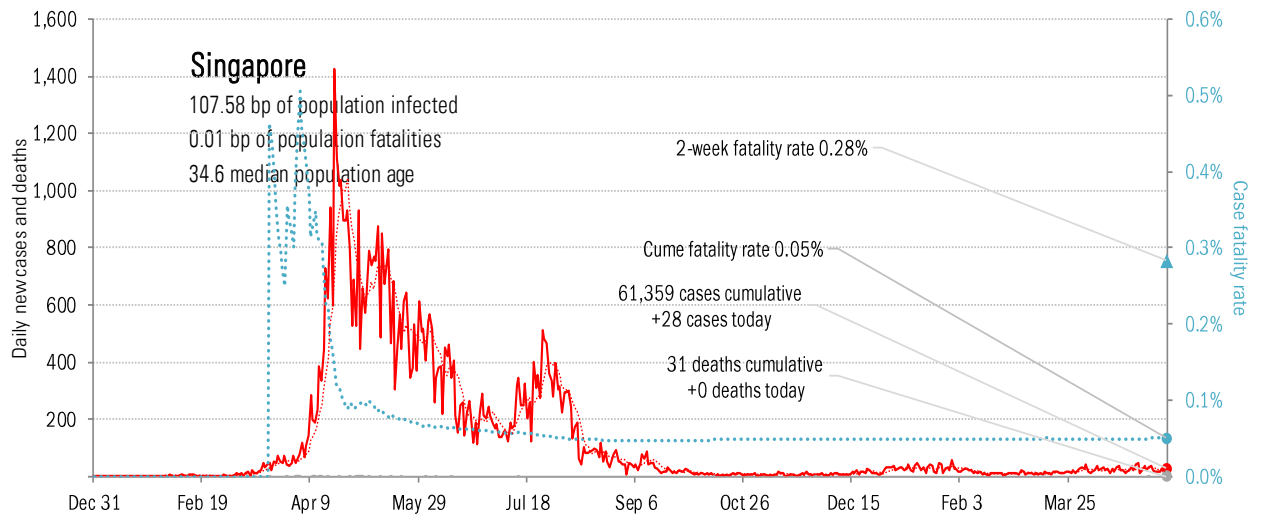
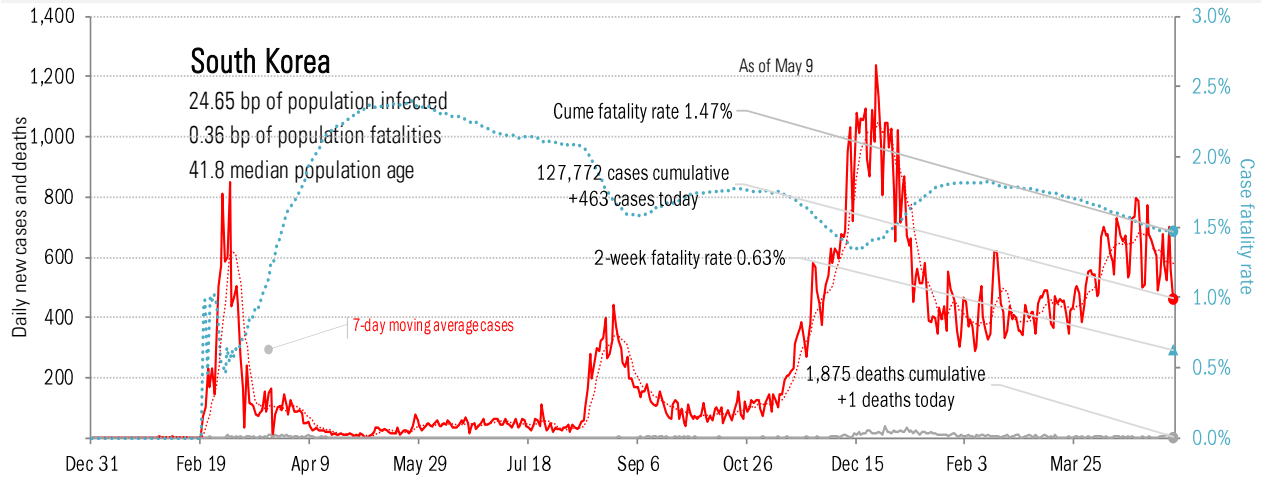
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



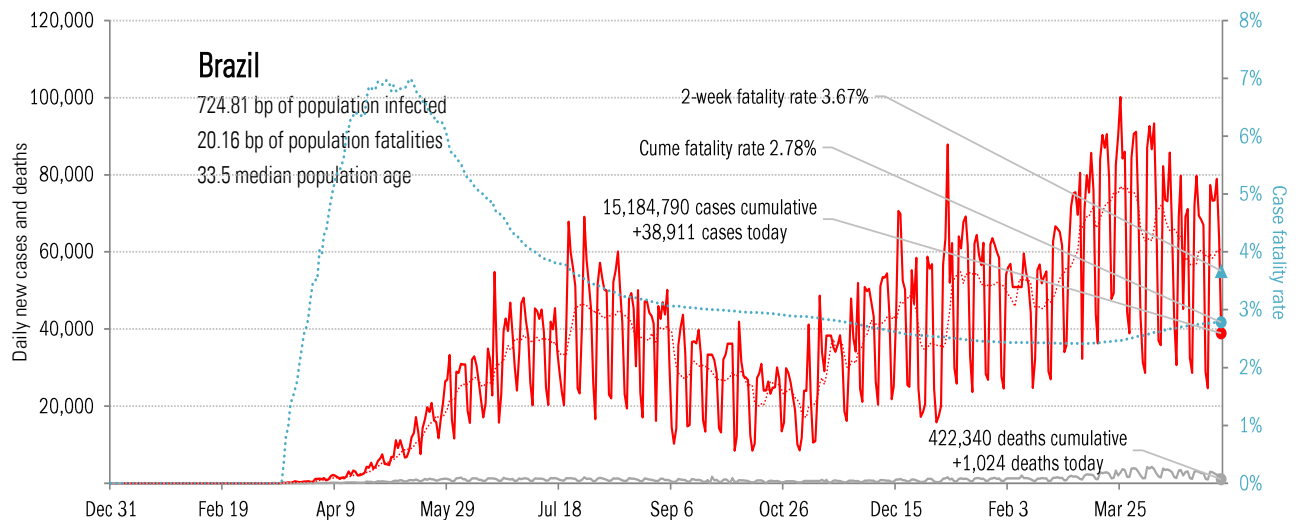
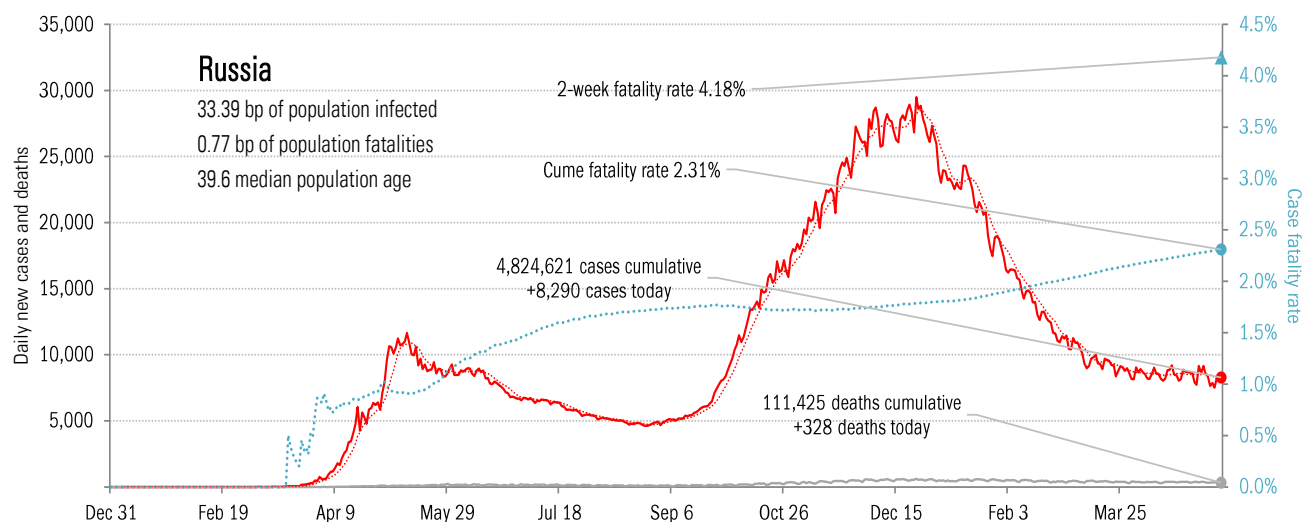
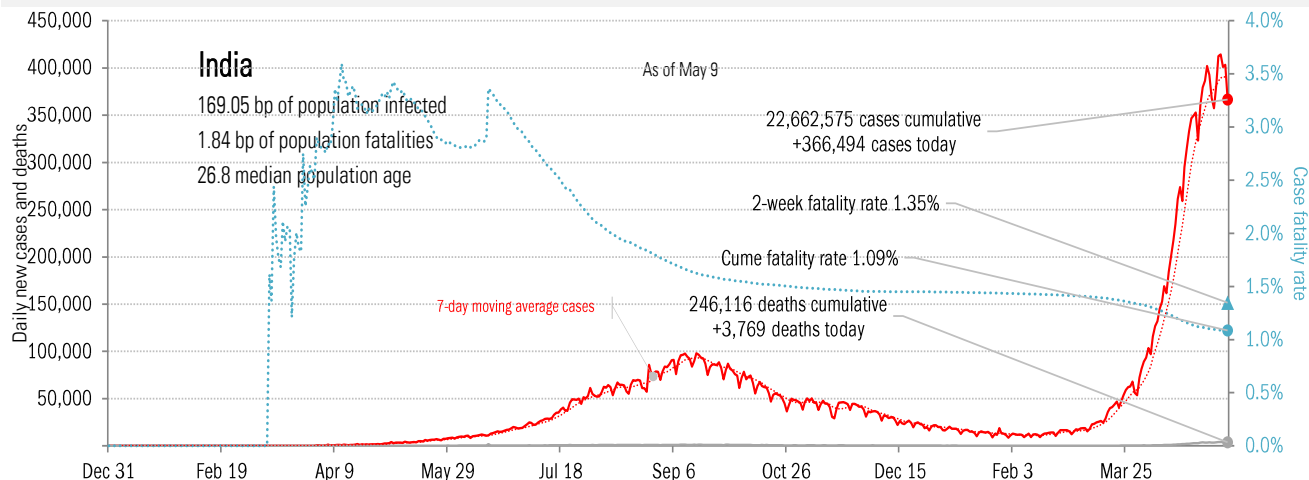
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



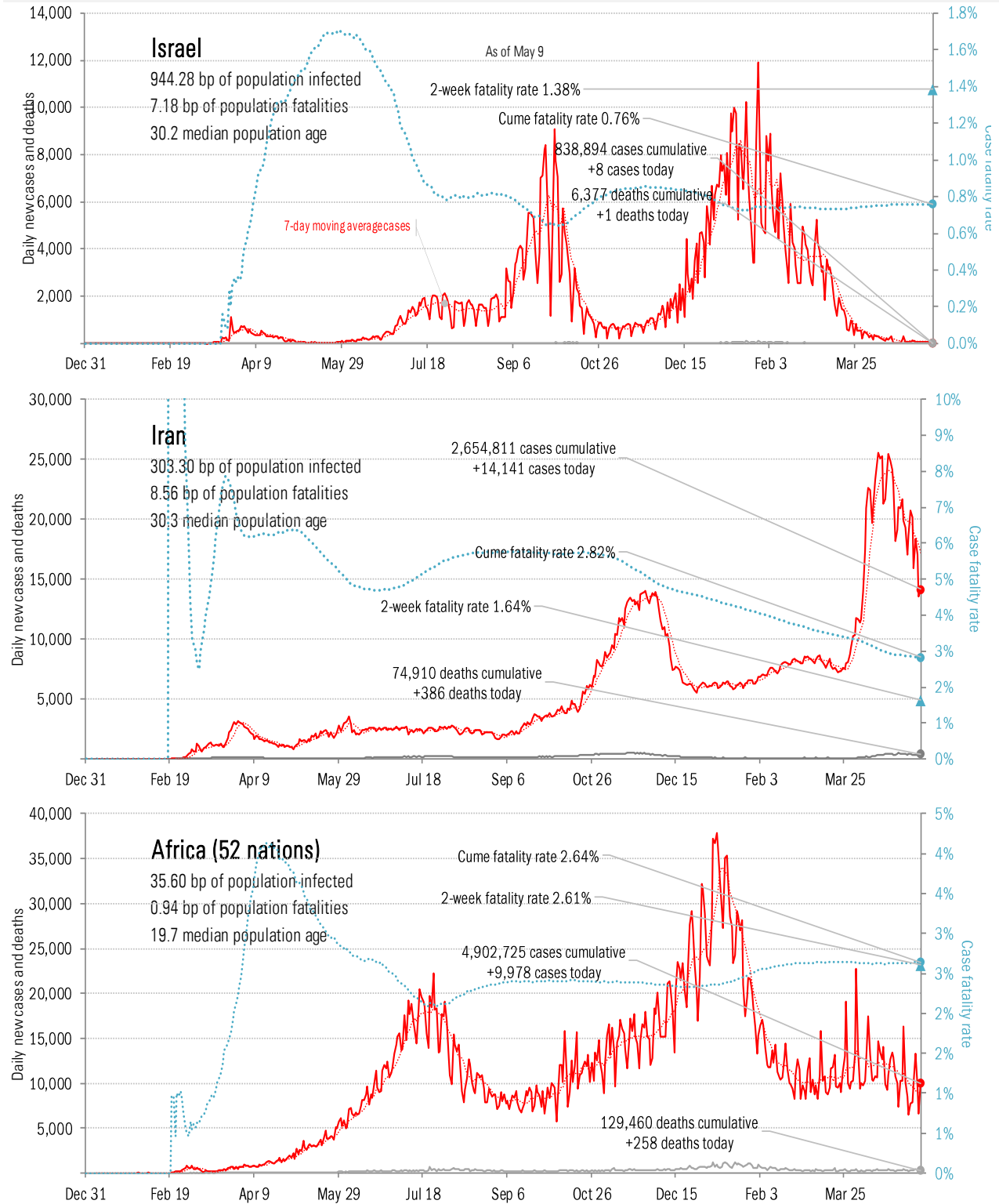
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



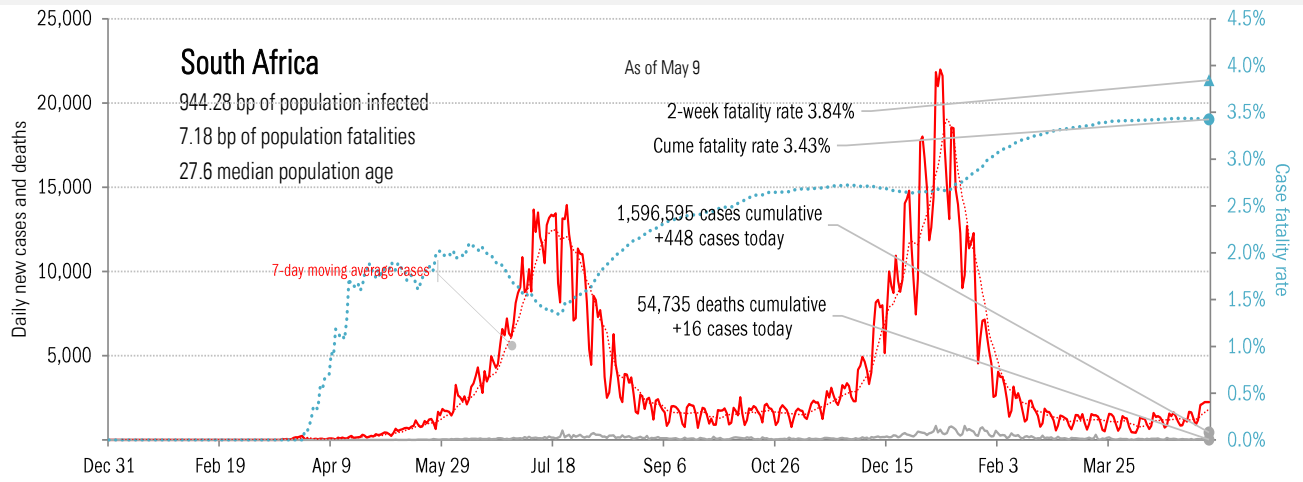
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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