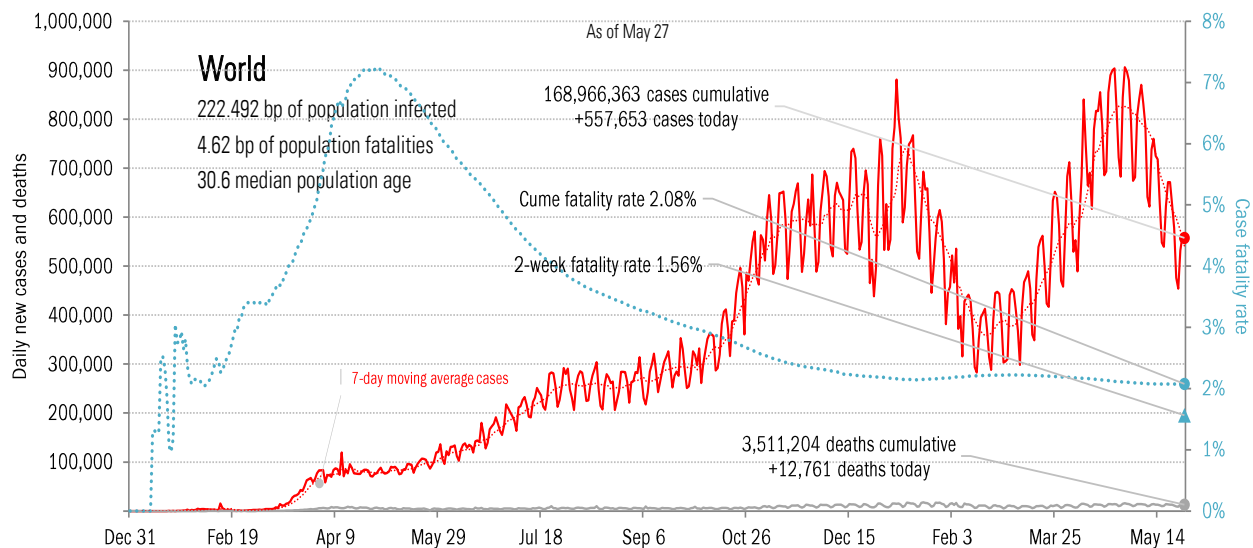
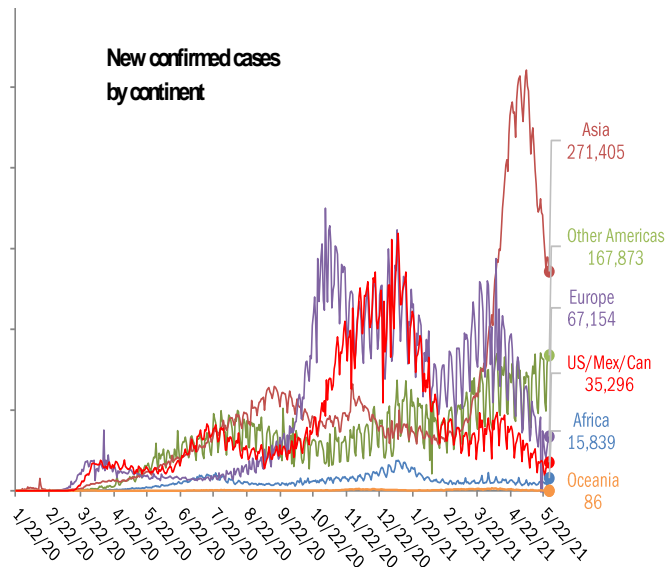


Data Insights: Covid-2019 Monitor

Friday, May 28, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+186,364	India	+3,660
Brazil	+67,467	Brazil	+2,245
Argentina	+41,080	United States	+1,338
United States	+27,525	Argentina	+547
Colombia	+25,092	Colombia	+513
France	+13,933	Mexico	+429
Iran	+9,994	Russia	+395
Russia	+8,911	Philippines	+210
Turkey	+8,426	Germany	+192
Chile	+8,105	Ukraine	+190
+396,897		+9,719	
World	+557,653	World	+12,761
Top ten	71%	Top ten	76%



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

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

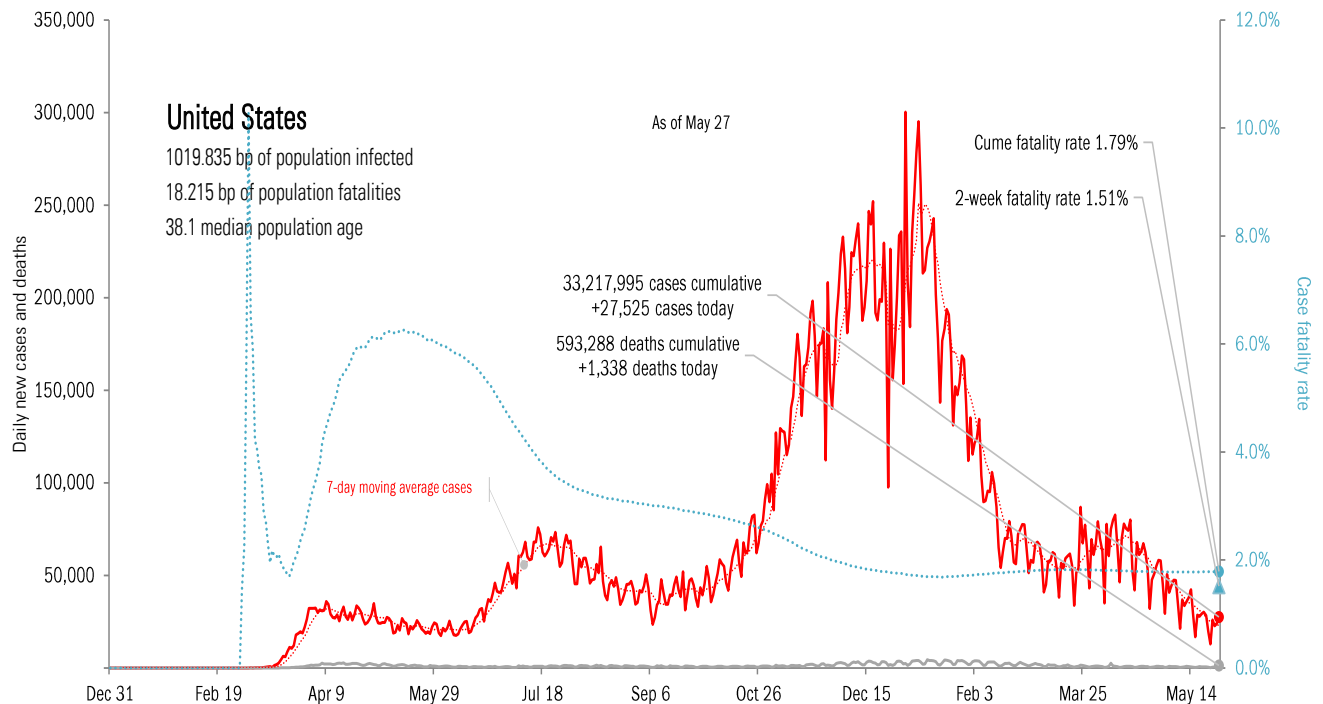
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
CA	+5,339		MD	+544		GA	+72		CA	3,786,459		CA	63,168		TX	246,271		R	92%	MI	19%
FL	+2,338		CA	+151		WA	+23		TX	2,950,587		NY	53,229		CA	234,846		MA	83%	CO	18%
TX	+1,601		FL	+86		KS	+21		FL	2,318,480		TX	51,401		FL	177,500		MO	81%	ME	14%
WA	+1,531		MI	+62		TX	+17		NY	2,099,246		FL	36,733		NY	133,317		GA	81%	MN	13%
PA	+1,293		PA	+51		WV	+10		IL	1,379,197		PA	27,130		GA	105,793		MD	80%	WV	13%
NY	+1,148		TX	+51		WY	+10		PA	1,201,228		NJ	26,173		PA	88,844		CT	80%	MD	13%
IL	+897		WI	+49		NH	+9		GA	1,122,166		IL	25,101		CH	84,875		PA	80%	MO	12%
NC	+849		IL	+44		NM	+9		CH	1,100,312		GA	20,774		IL	79,802		MI	80%	NM	12%
CO	+832		GA	+39		MS	+8		NJ	1,015,368		MI	20,301		KY	74,543		DC	78%	ID	12%
AZ	+764		NC	+24		DC	+6		NC	1,000,416		CH	19,753		MI	70,750		MN	78%	GA	12%
+16,592			+1,101			+185			17,973,459			343,763			1,296,541			All states 70%		67%	
All states +27,525			+1,338			-219			All states 33,217,995			593,288			2,323,393			All states 70%		67%	
Top ten 60%			82%			-84%			Top ten 54%			58%			56%			Median 72%		8%	

Some states not reporting

Five most improved US states

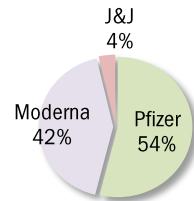
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-592	CK	-373	FL	-72	NH	+660 bp
MI	-419	CH	-44	KY	-49	MA	+55 bp
KS	-351	NJ	-21	NC	-39	FR	+53 bp
CH	-254	KY	-15	AZ	-34	MI	+46 bp
IL	-238	AL	-12	NY	-25	MD	+42 bp



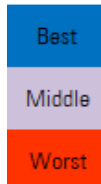
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

US overall	Total				Today	Immunity	Full	Partial
Doses distributed	373,706,035				+1.413 million	US	39.7%	49.6%
Doses administered	299,748,180				+1.539 million	UK	35.4%	56.9%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	15.3%	35.7%
Total population	170,163,730	51%	136,639,263	41%	+0.933 million	Spain	18.4%	37.4%
Age 12 to 17	5,690,343	23%	2,129,066	8%	+0.051 million	Germany	16.3%	42.2%
Age 18 to 64	116,026,153	57%	92,388,463	45%	+0.786 million	Italy	18.5%	36.8%
Age 65 and over	48,383,500	88%	42,112,876	77%	+0.097 million	Australia	1.9%	13.4%
						Israel	59.2%	62.9%
						Canada	4.8%	54.4%
						Japan	2.4%	6.4%
						Africa	0.5%	1.7%
						India	3.1%	11.5%
						Brazil	10.1%	20.6%



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 **117 days** by Sep 20, 2021
 64.3% of population >18 immunized
 14.0% previously tested positive
78.3% vs 60% adult herd immunity*

Global data differs from sources, timing

AK
59.1%
45.6%
38.9%

ME	NH
68.8%	66.9%
62.6%	59.5%
53.6%	48.0%

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<table border="1"> <tr><th>HI</th></tr> <tr><td>66.8%</td></tr> <tr><td>65.6%</td></tr> <tr><td>47.1%</td></tr> </table>	HI	66.8%	65.6%	47.1%	<table border="1"> <tr><th>FL</th></tr> <tr><td>58.1%</td></tr> <tr><td>48.4%</td></tr> <tr><td>38.2%</td></tr> </table>	FL	58.1%	48.4%	38.2%	<table border="1"> <tr><th>PR</th></tr> <tr><td>63.2%</td></tr> <tr><td>49.8%</td></tr> <tr><td>35.9%</td></tr> </table>	PR	63.2%	49.8%	35.9%																																								
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As of May 27

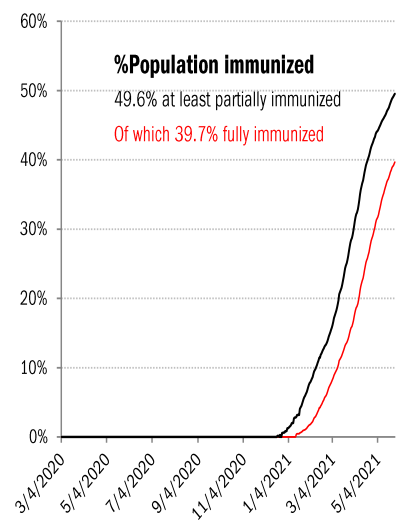
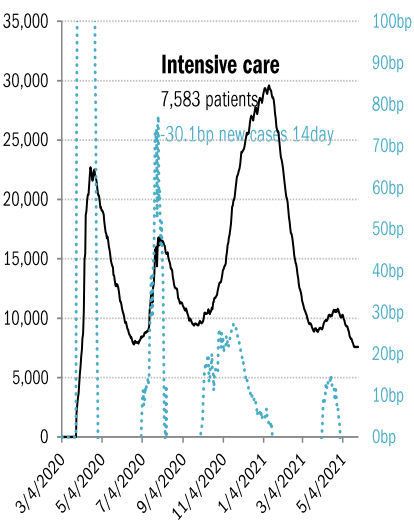
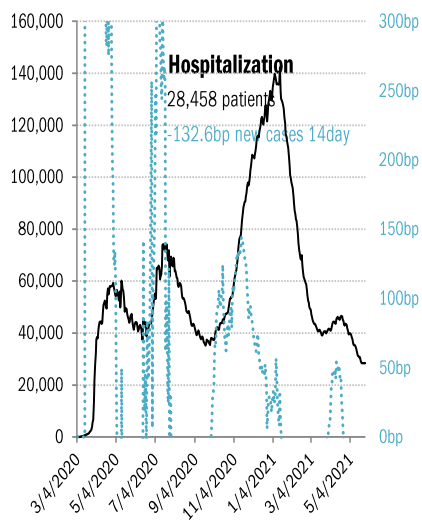
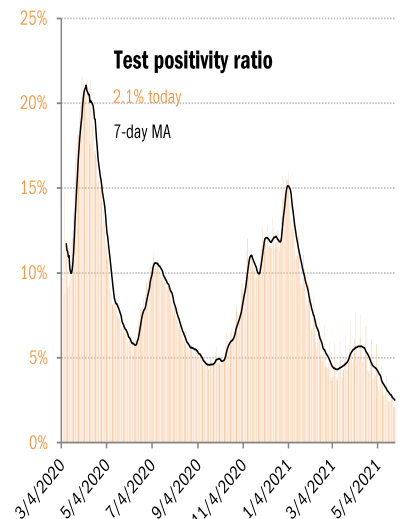
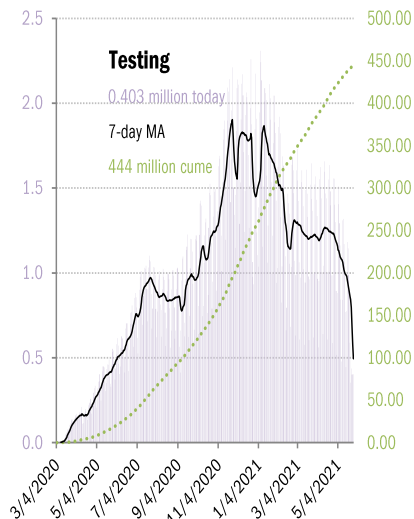
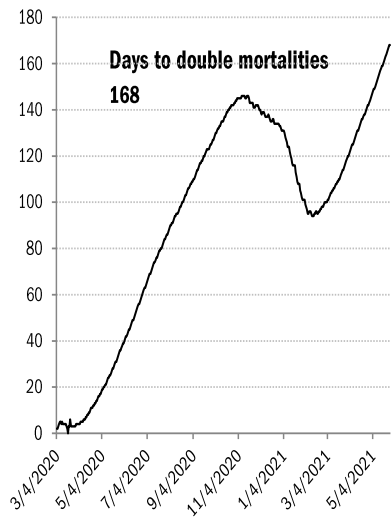
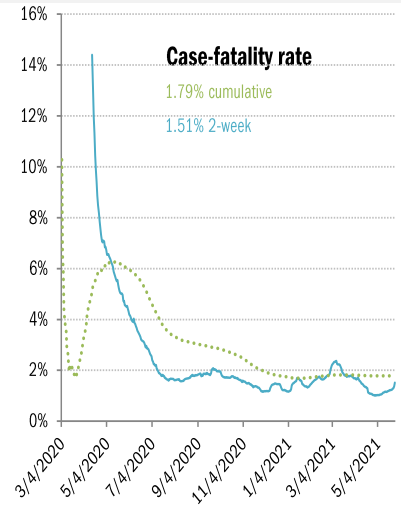
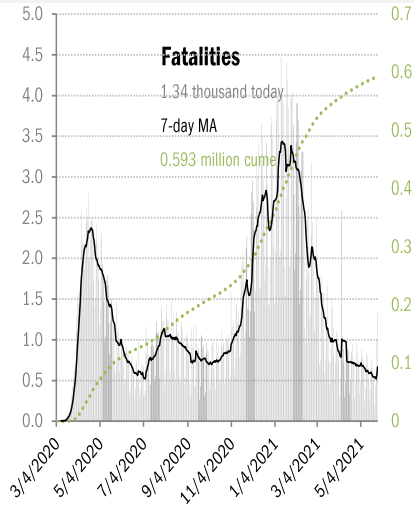
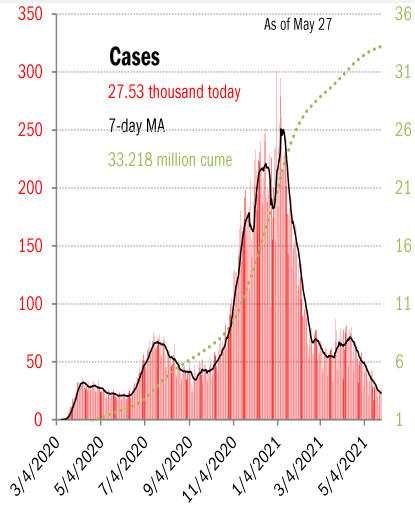
* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.

** 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

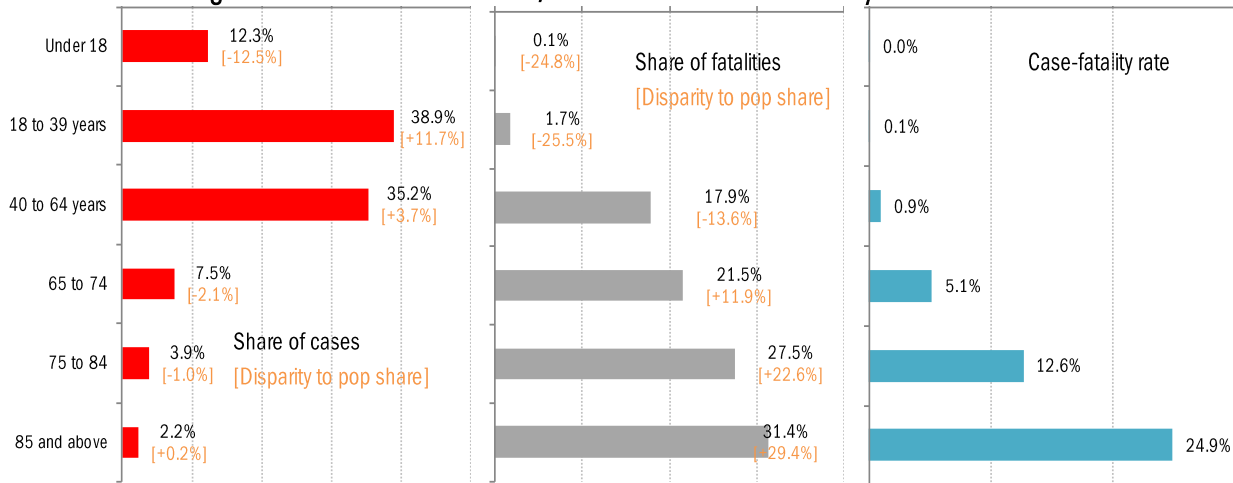
US deep-dive

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

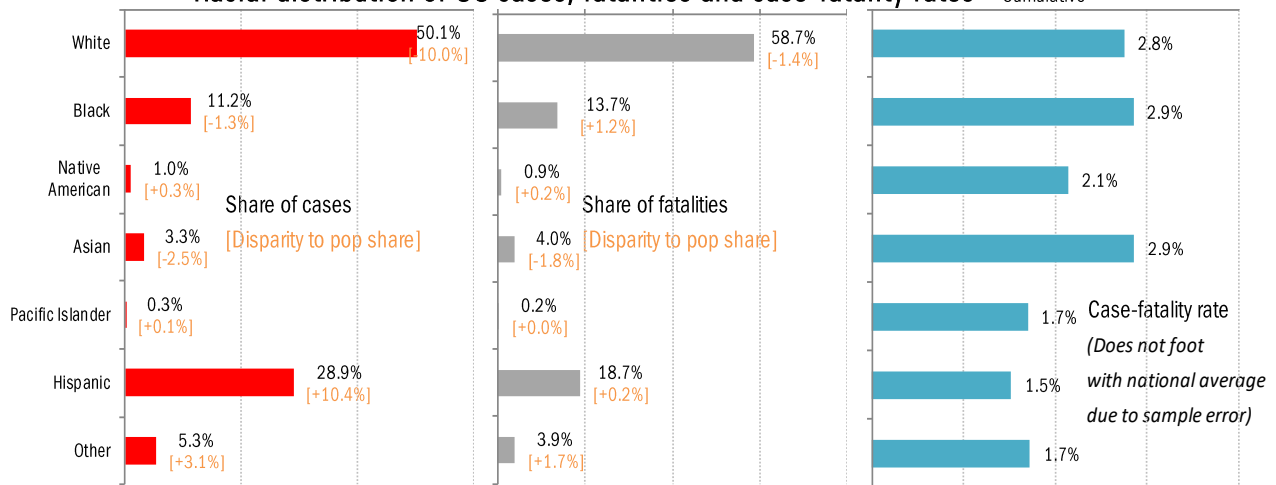


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

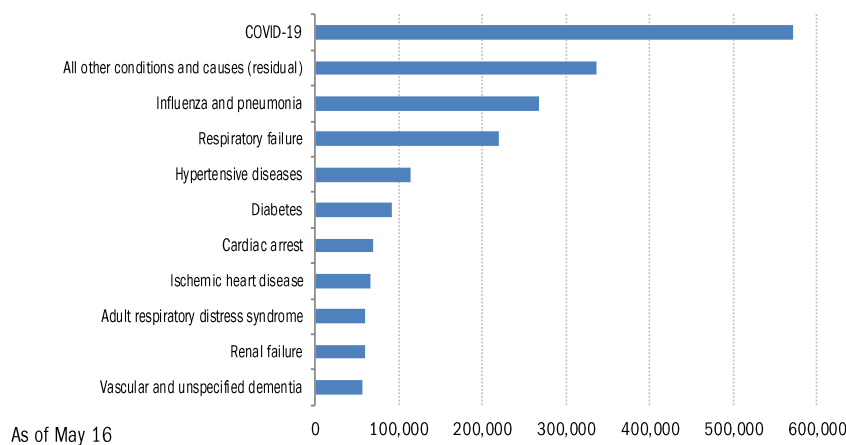


Racial distribution of US cases, fatalities and case-fatality rates



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

[Facebook Ends Ban on Posts Asserting Covid-19 Was Man-Made](#)

Newley Purnell
Wall Street Journal
May 27, 2021

[Intelligence Community Statement on Origins of COVID-19](#)

US Intelligence Community
April 20, 2020

[The Wuhan story that finally has legs, now that Trump is gone](#)

John Kass
Chicago Tribune
May 26, 2021

[Fauci: 'I don't have enough insight' into CCP to know if coronavirus science has been compromised](#)

Daniel Payne
Just the News
May 26, 2021

[Trust science? Fauci and NIH chief say Biden never consulted them before spiking COVID origin probe](#)

Daniel Payne
Just the News
May 27, 2021

[Fauci facing calls for resignation after shifting positions on probe of Wuhan lab](#)

Mark Moore
New York Post
May 26, 2021

[NYT Covid Reporter Tweets and Deletes Comments About Wuhan Lab Theory and Racism](#)

Caleb Howe
Mediaite
May 26, 2021

[Fauci: It would have been 'dereliction of our duty' not to collaborate with China on studying coronaviruses](#)

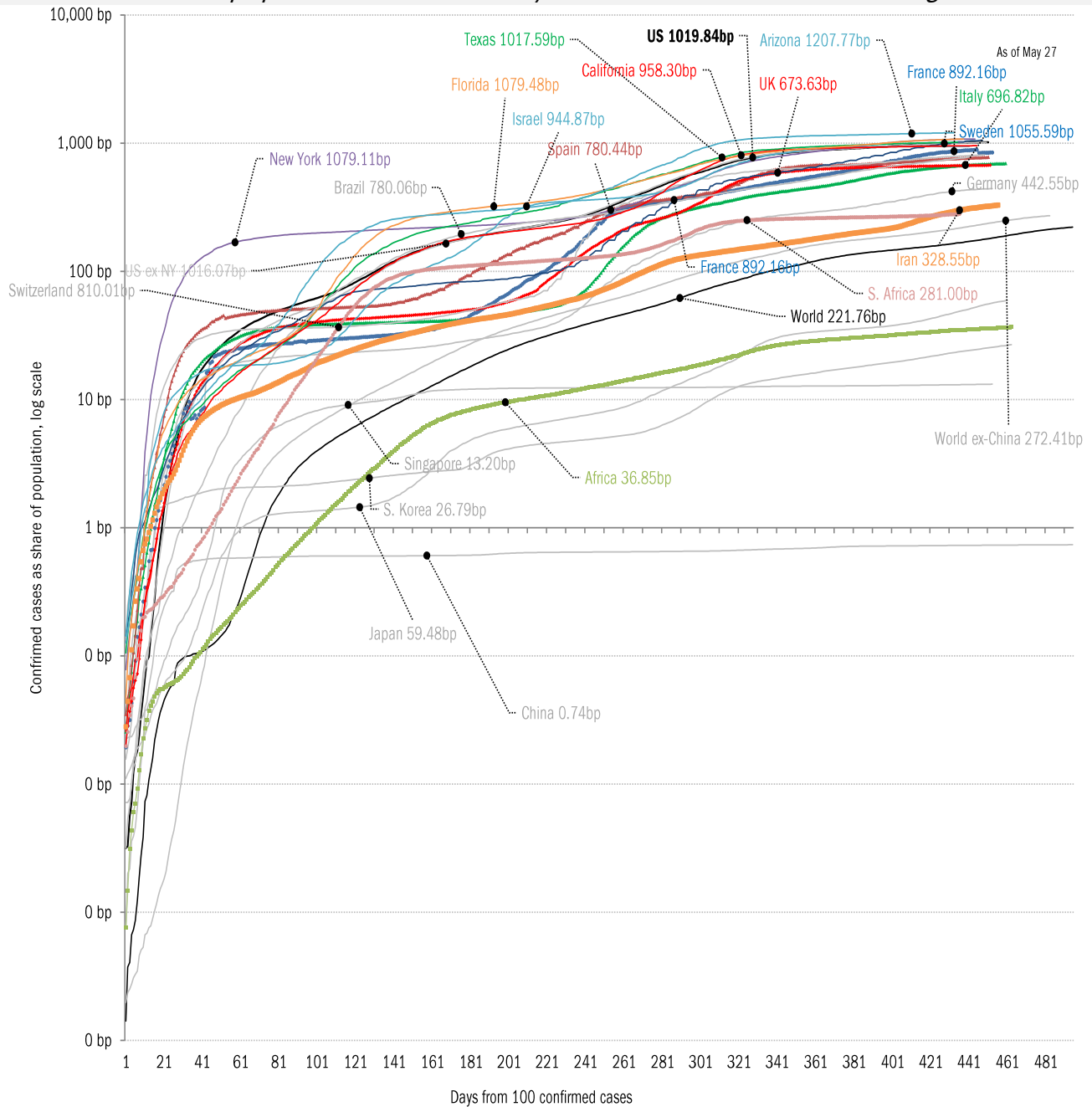
Jerry Dunleavy
Washington Examiner
May 25, 2021

Meme of the day



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

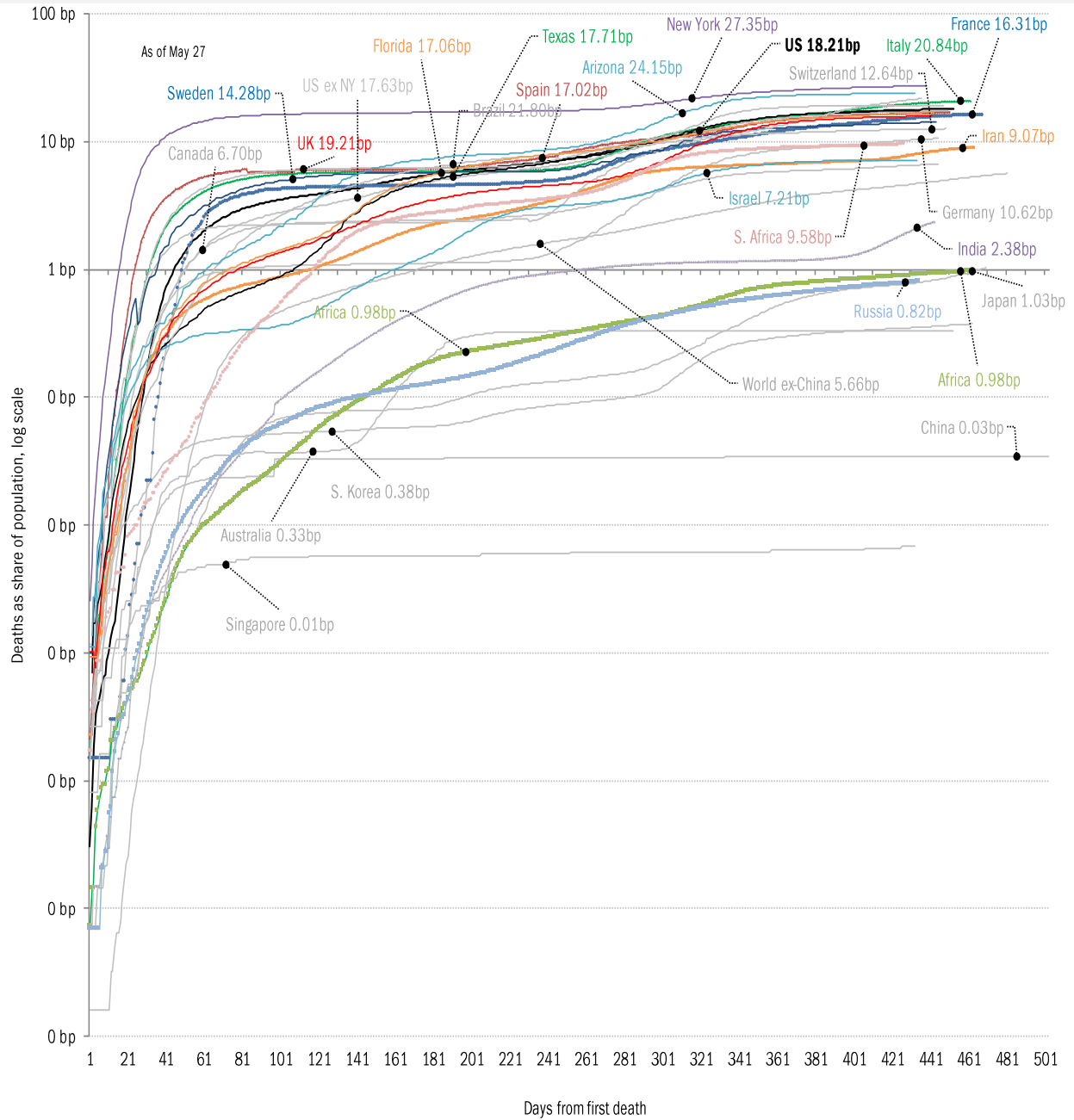
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

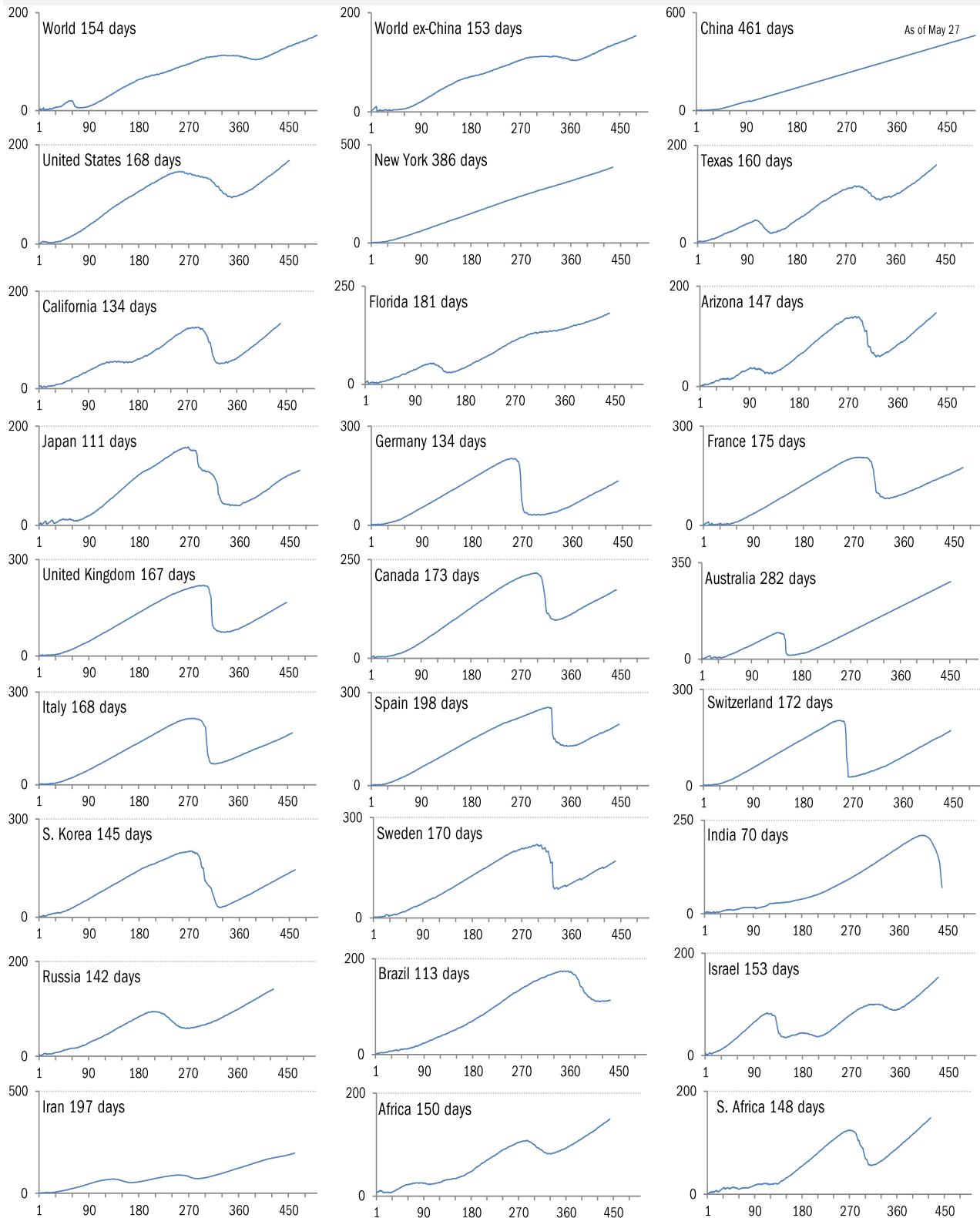


Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

"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

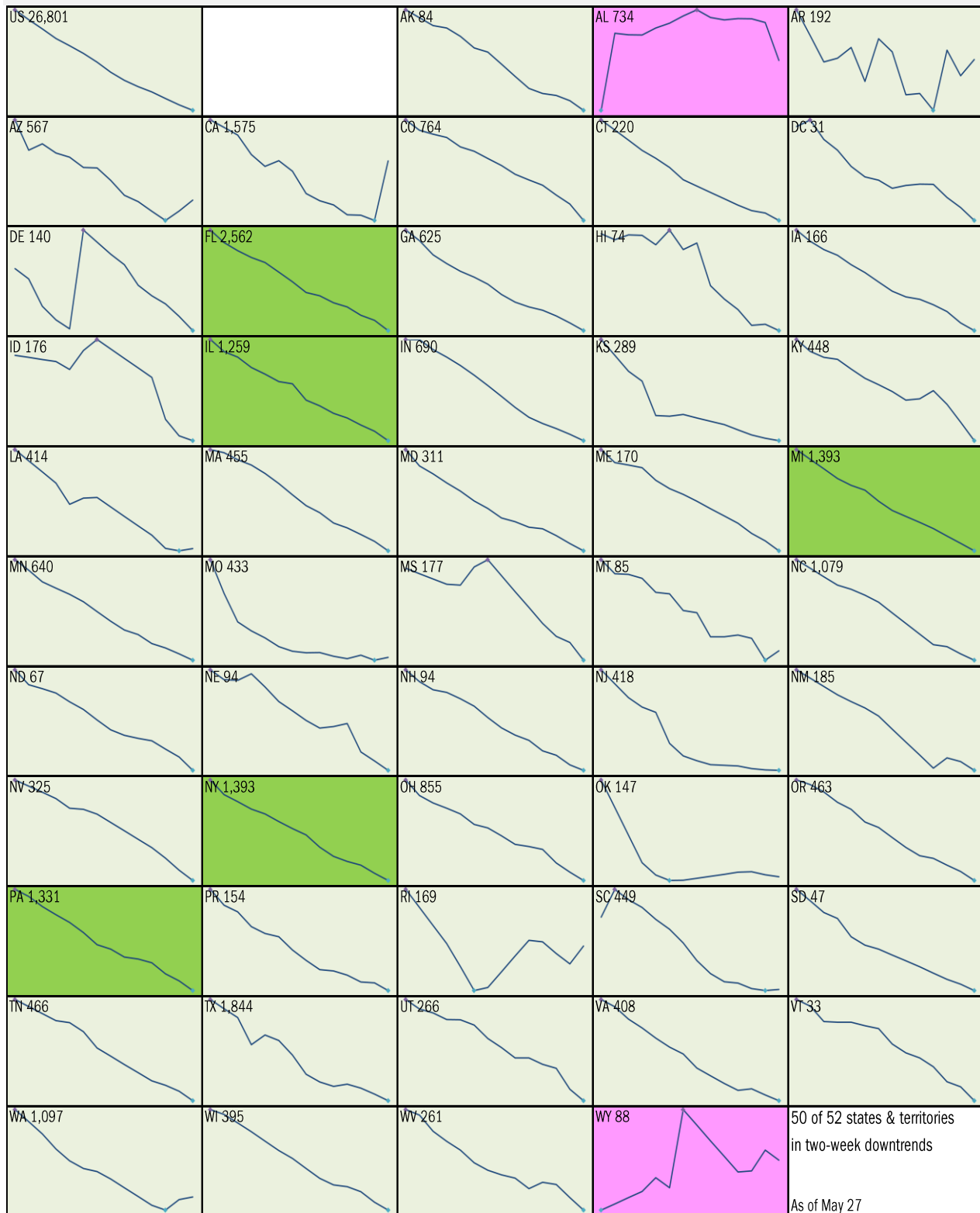


Source: [Johns Hopkins](#), TrendMacro calculations

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

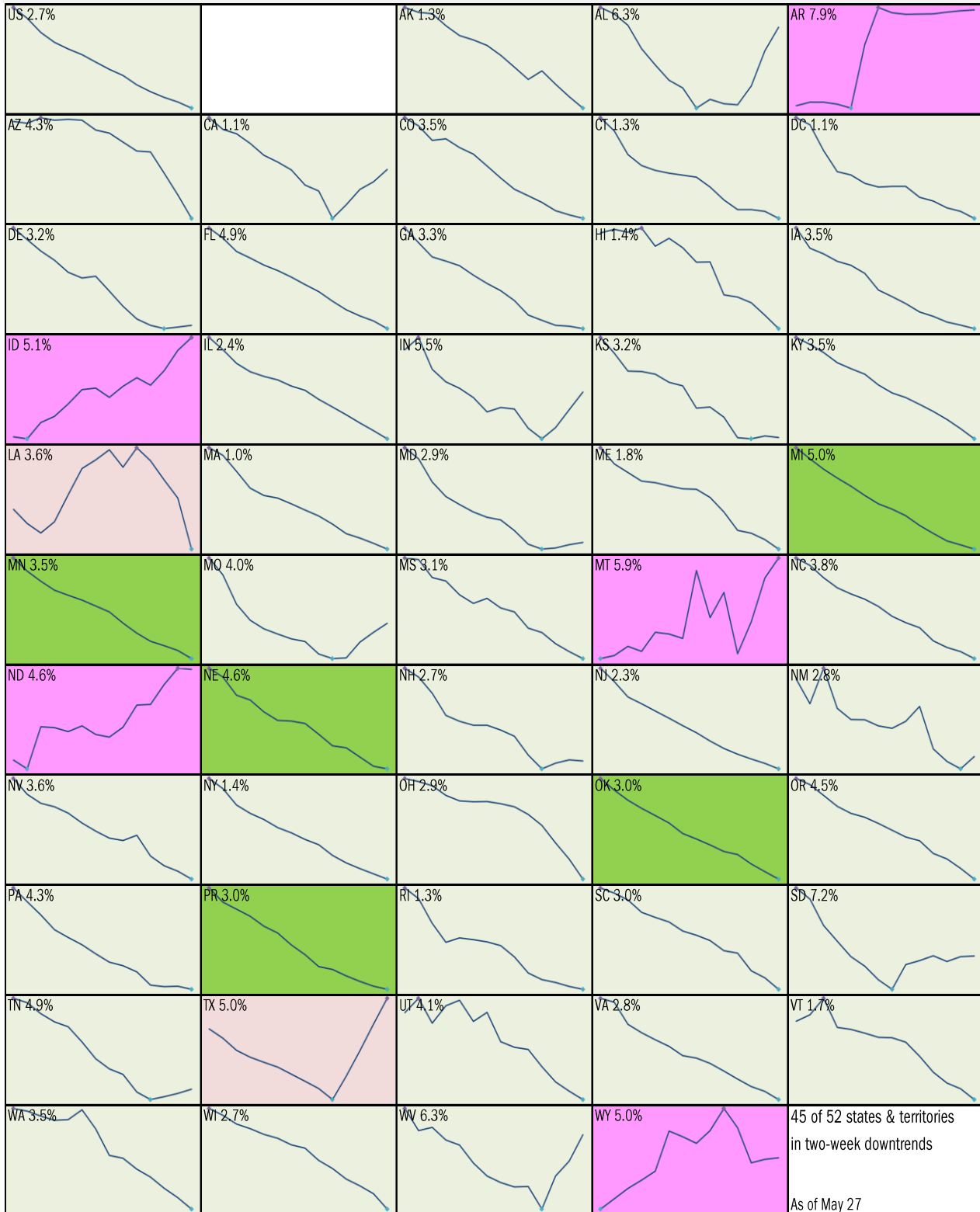


Source: [Johns Hopkins](#), TrendMacro calculations

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

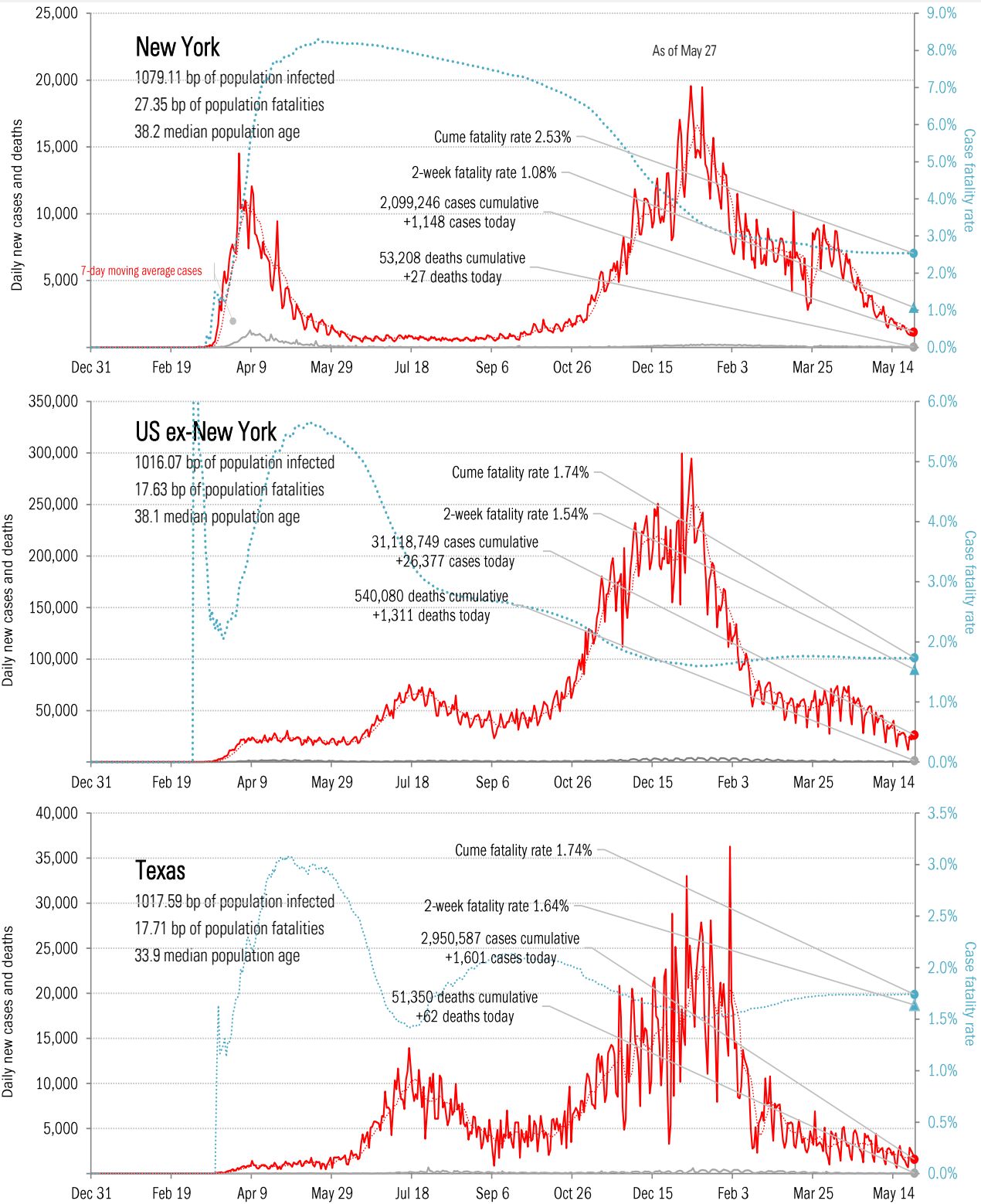
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



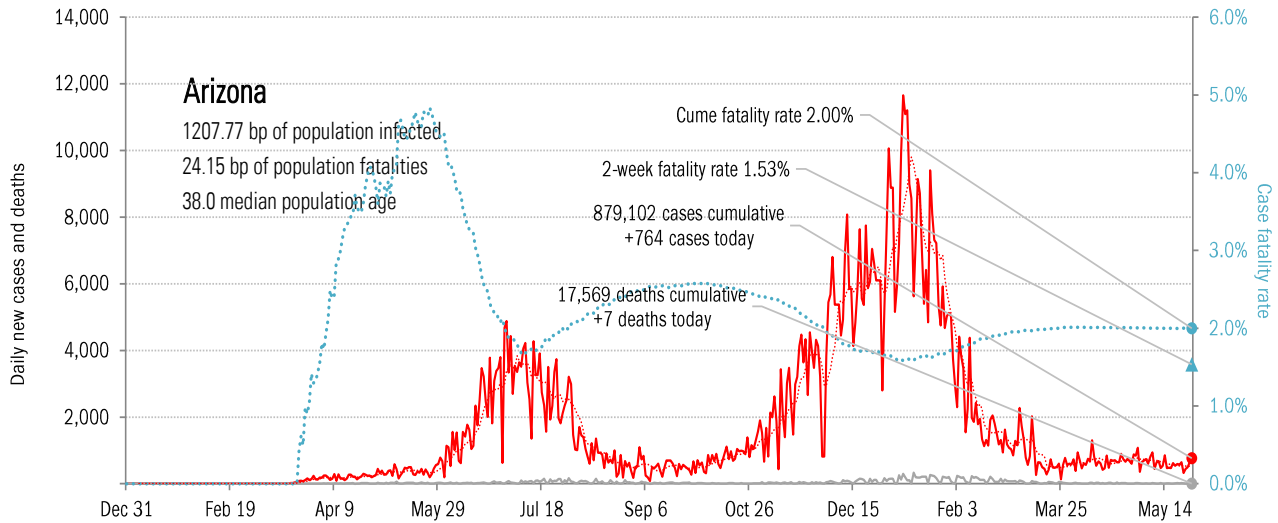
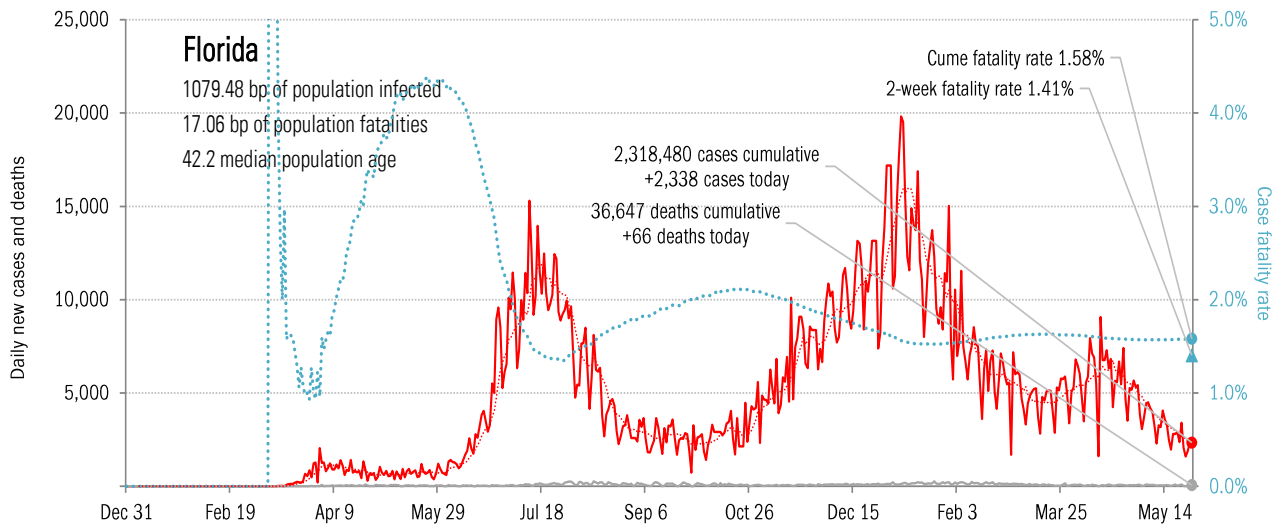
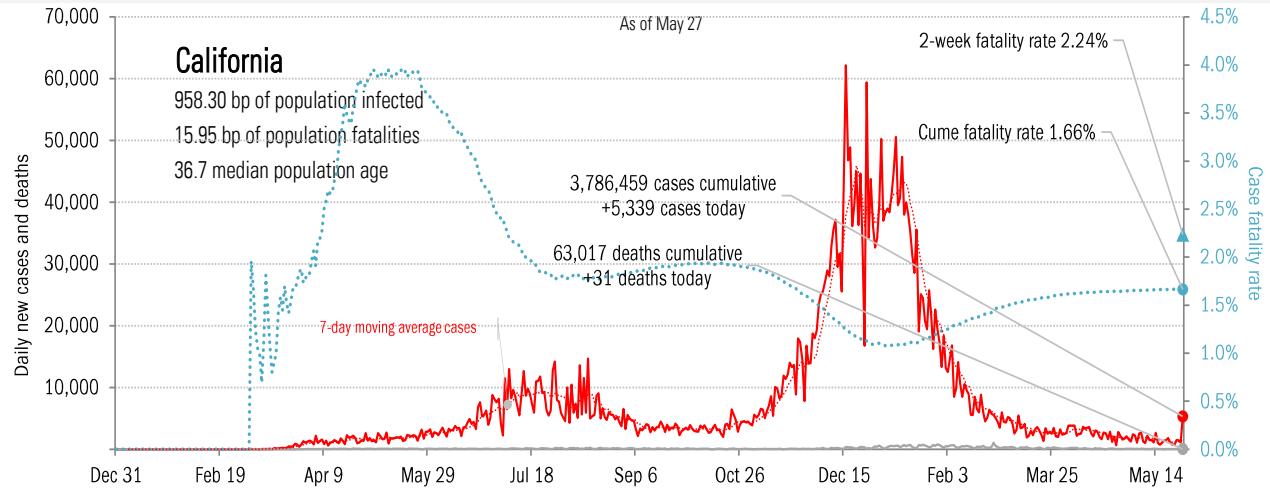
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



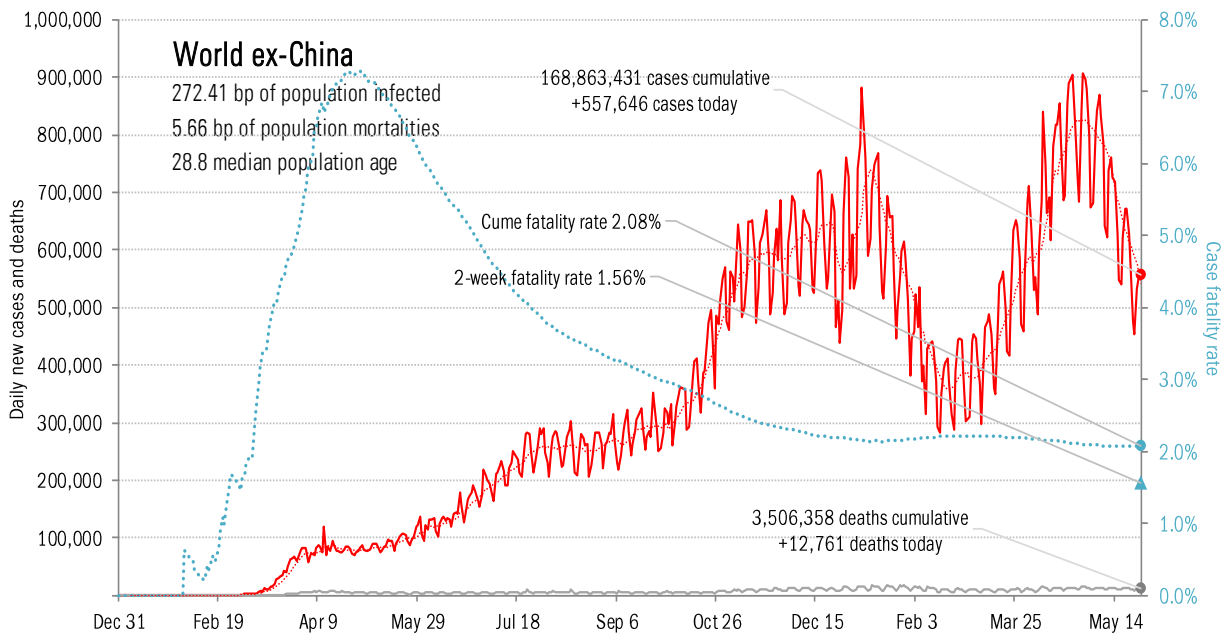
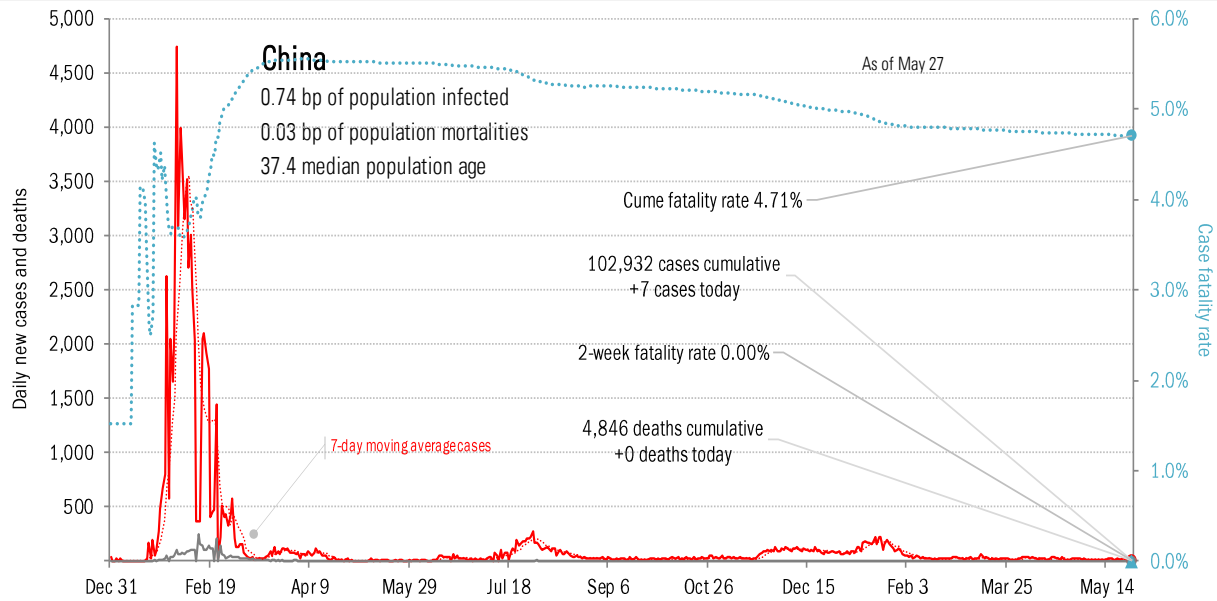
Source: [Johns Hopkins](#), TrendMacro calculations

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



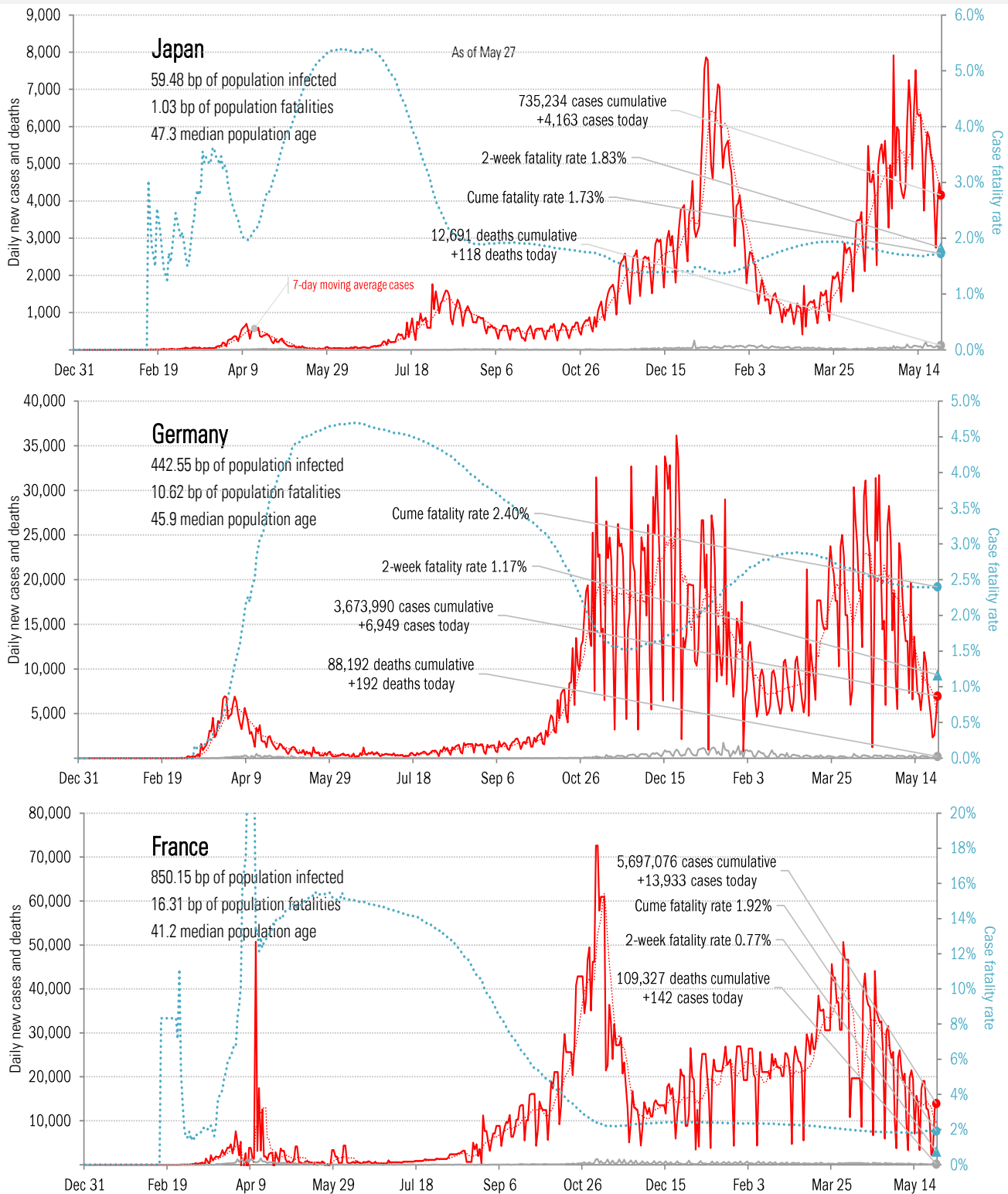
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



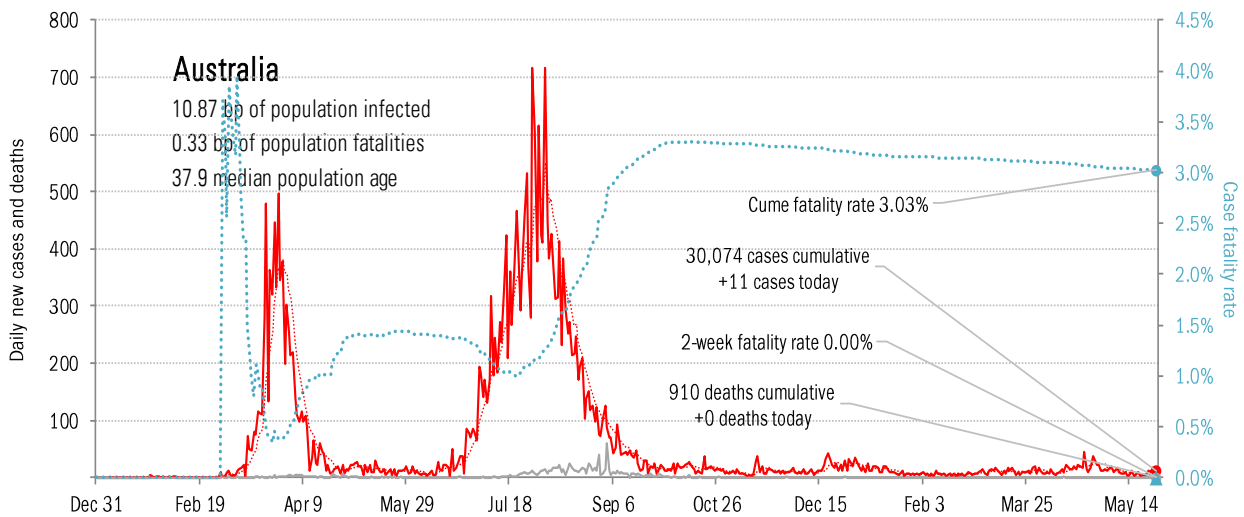
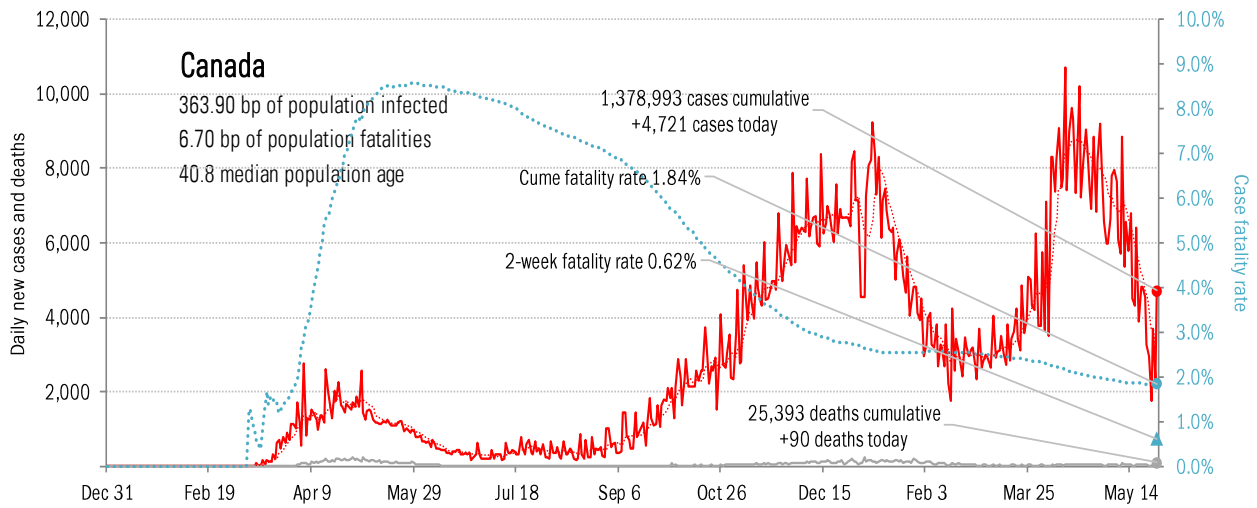
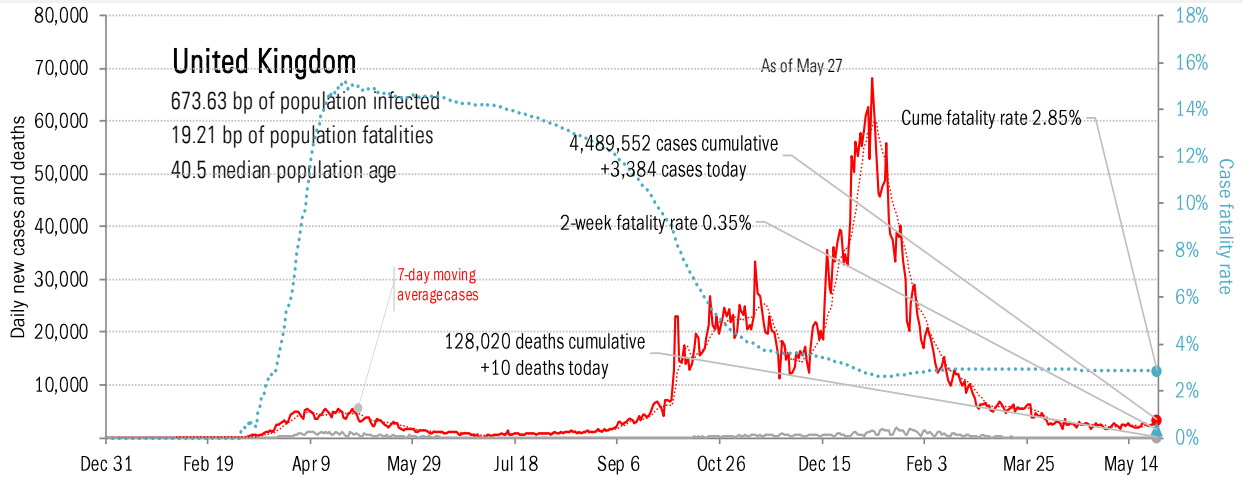
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



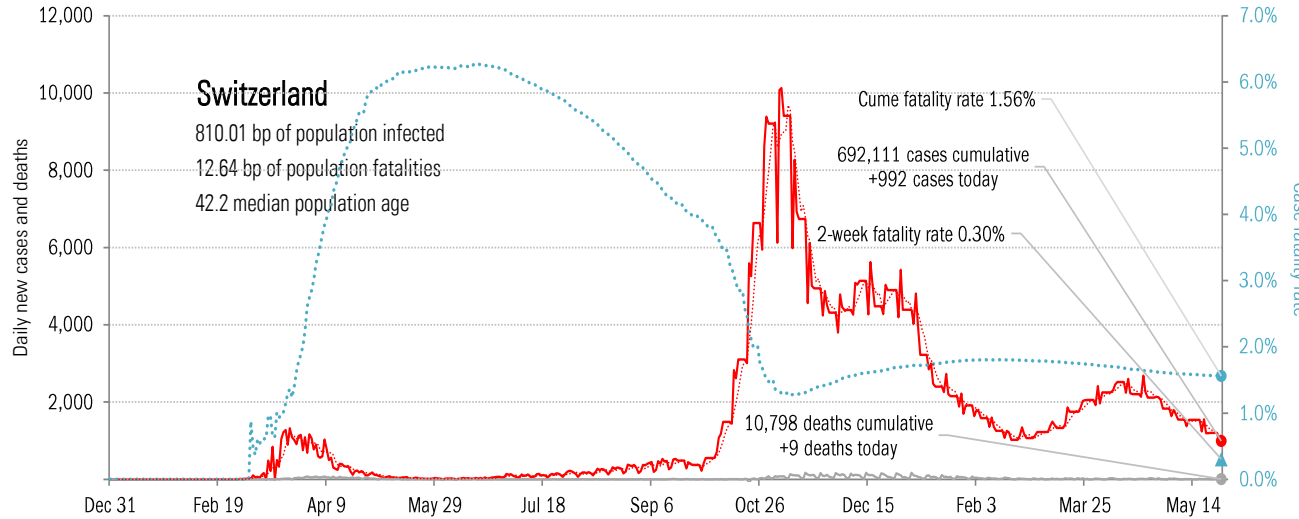
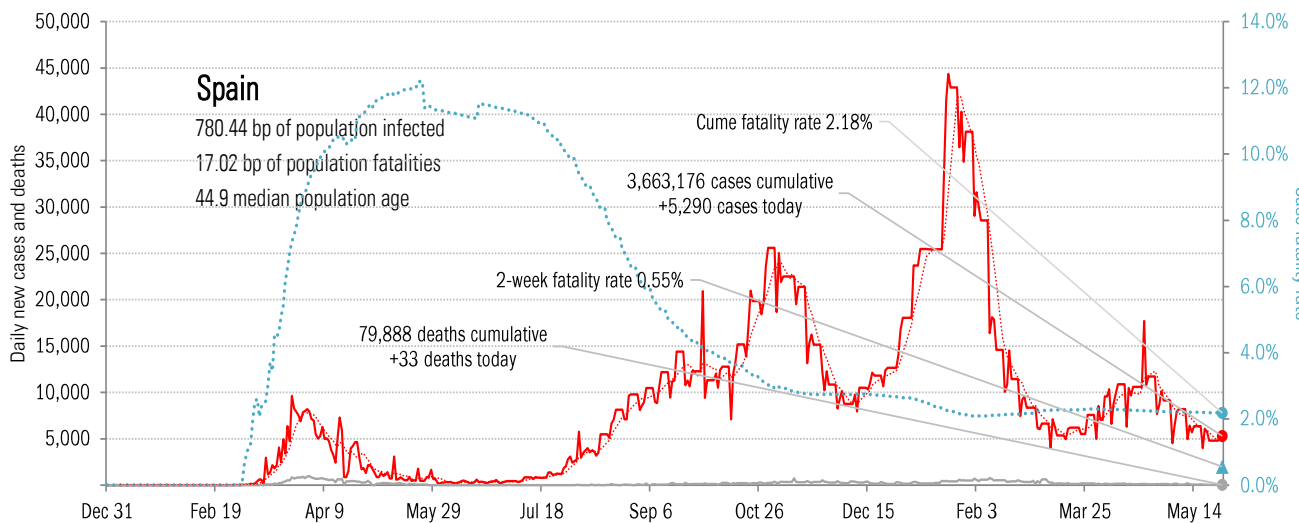
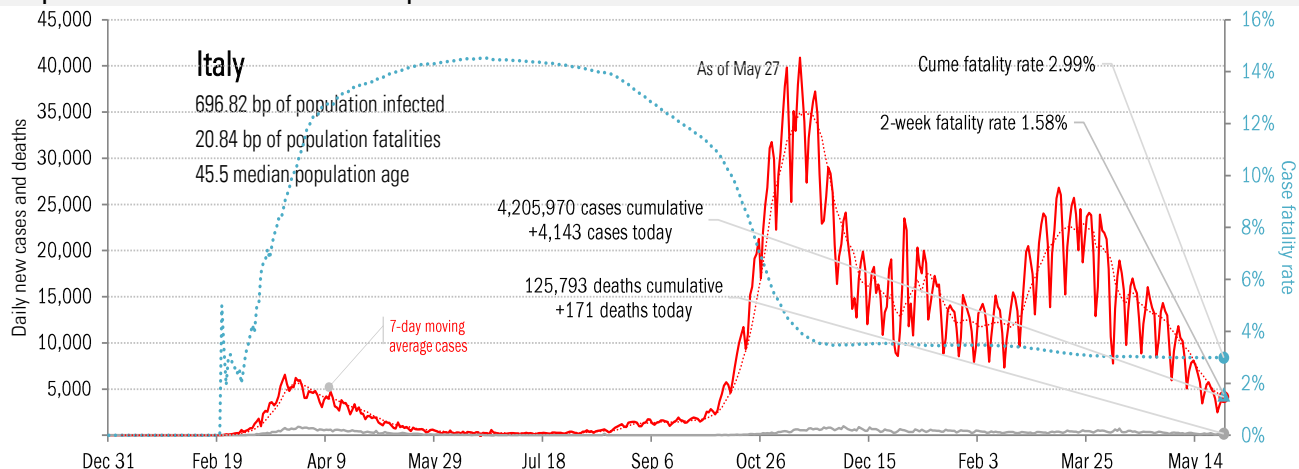
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



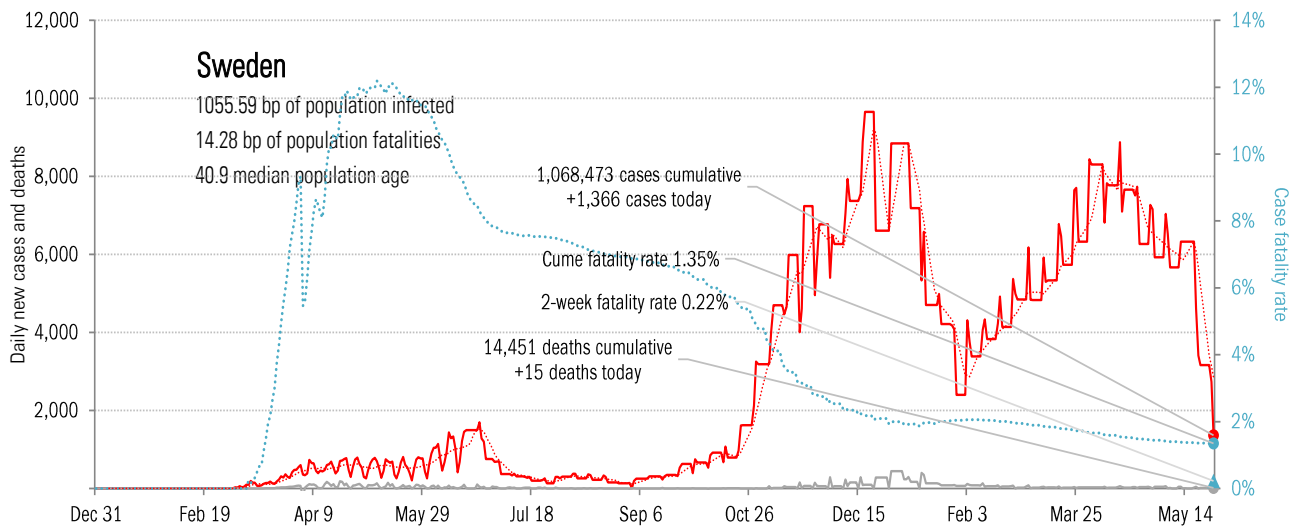
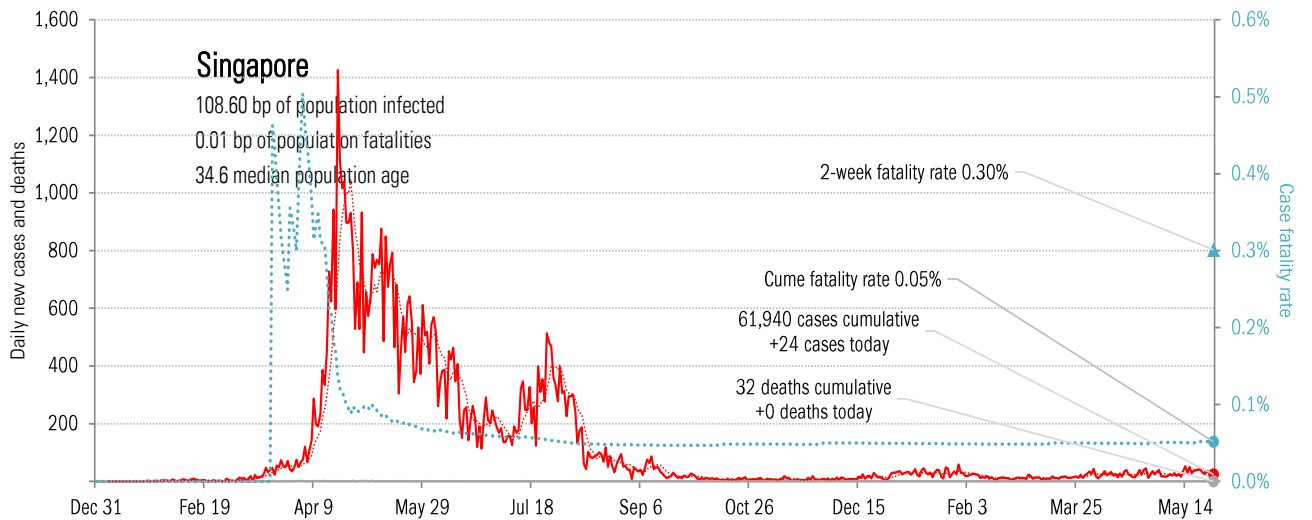
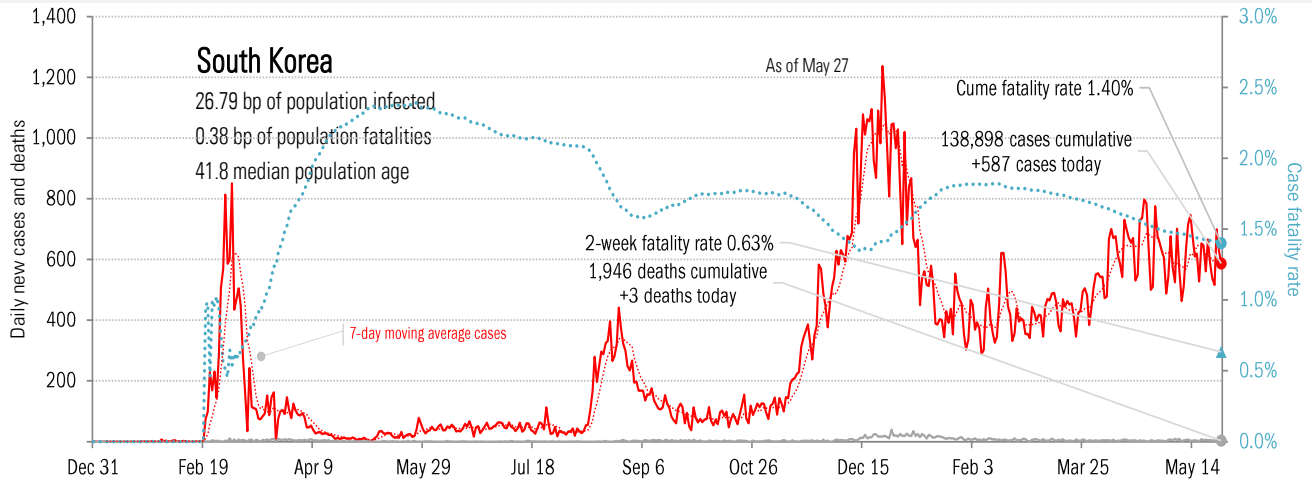
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



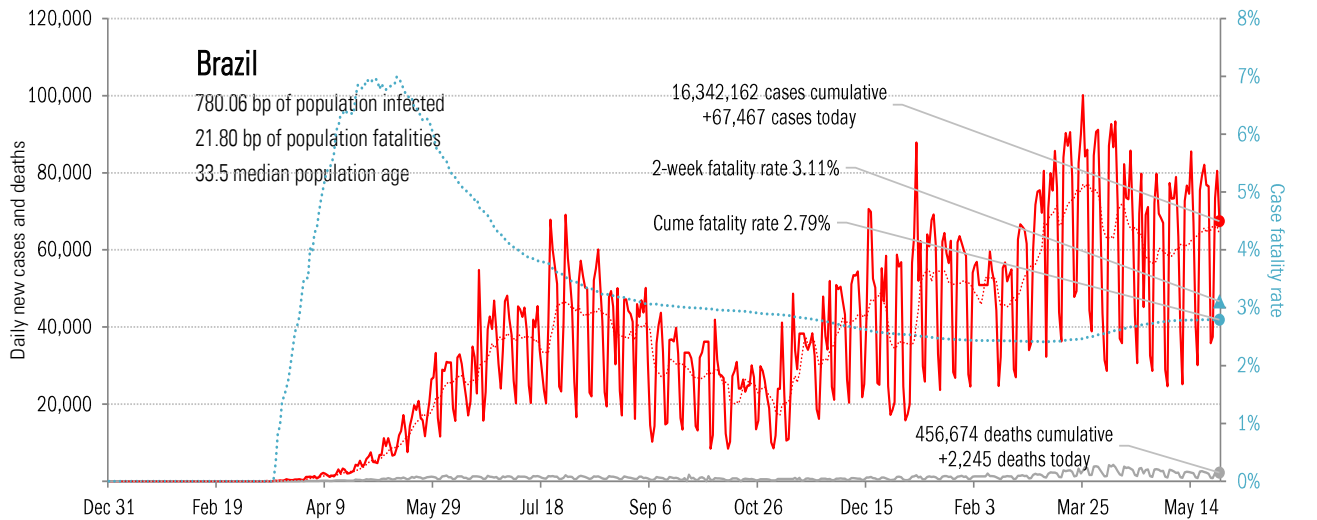
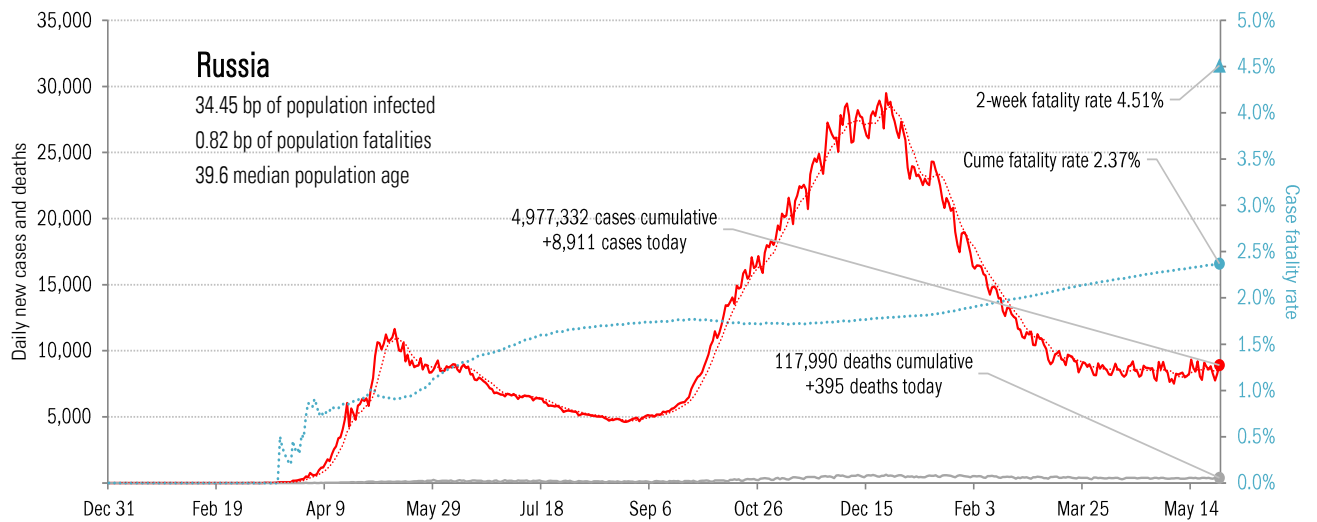
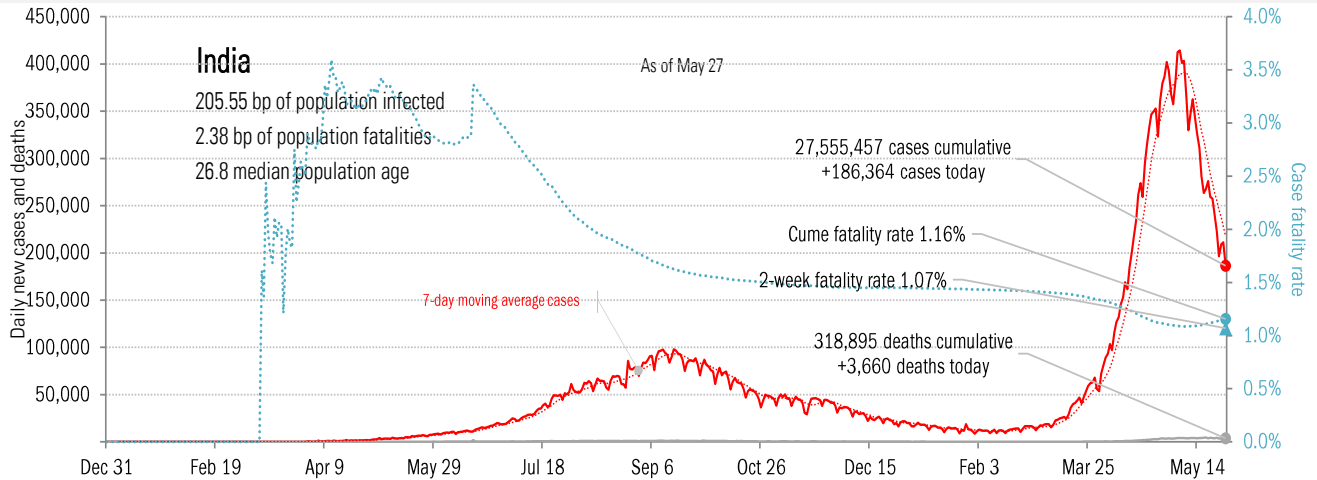
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



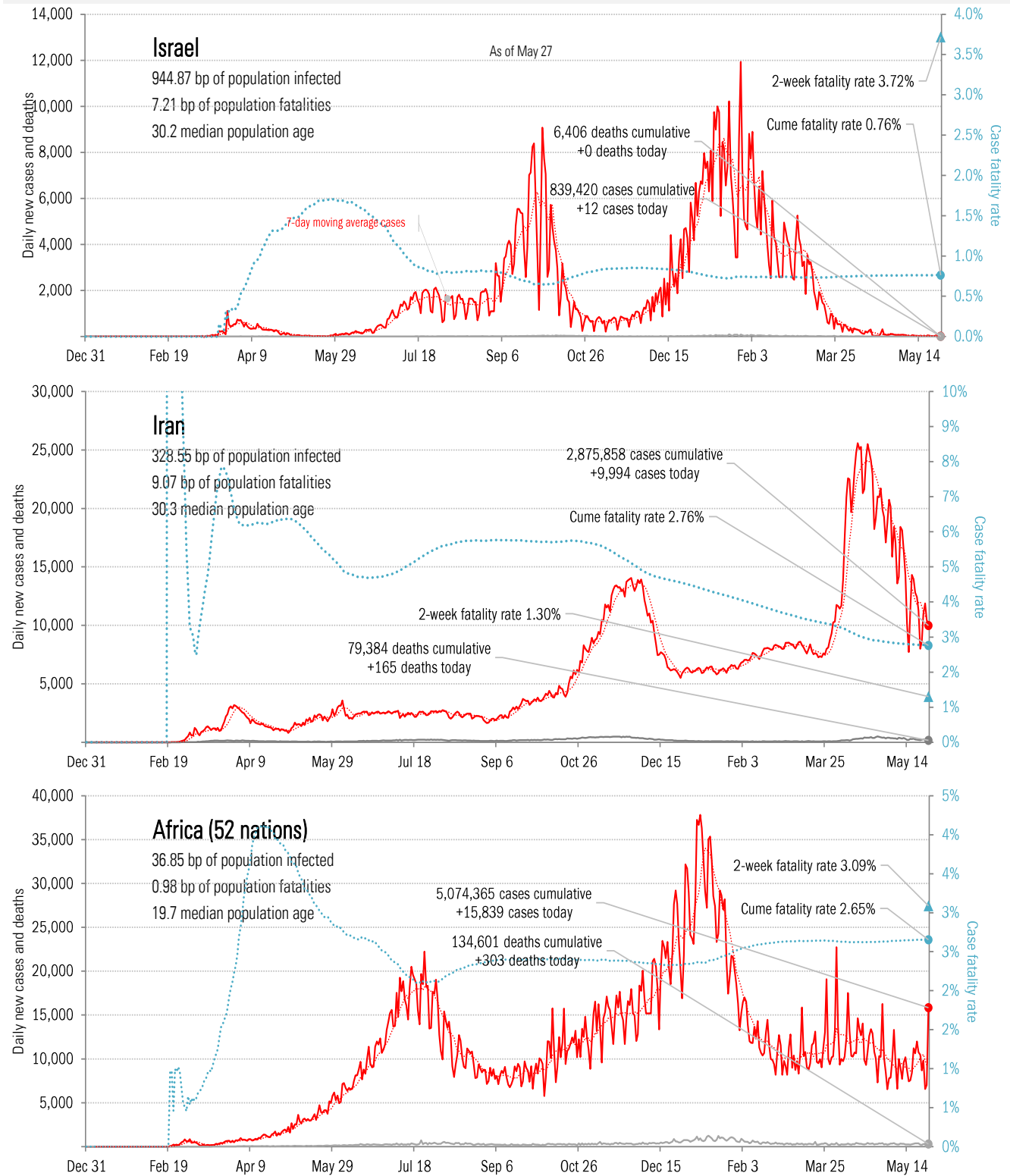
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



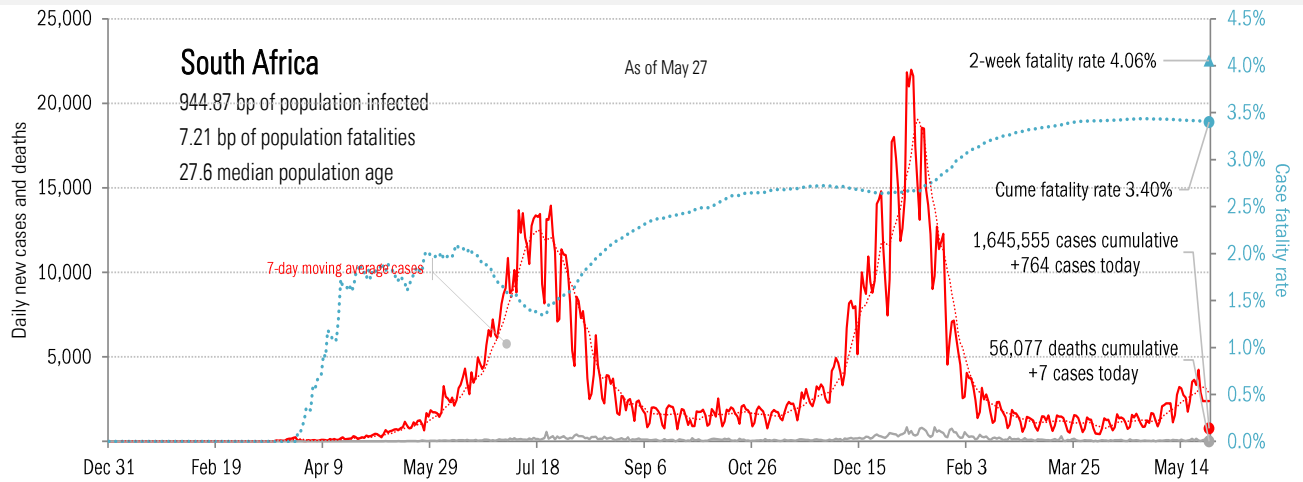
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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