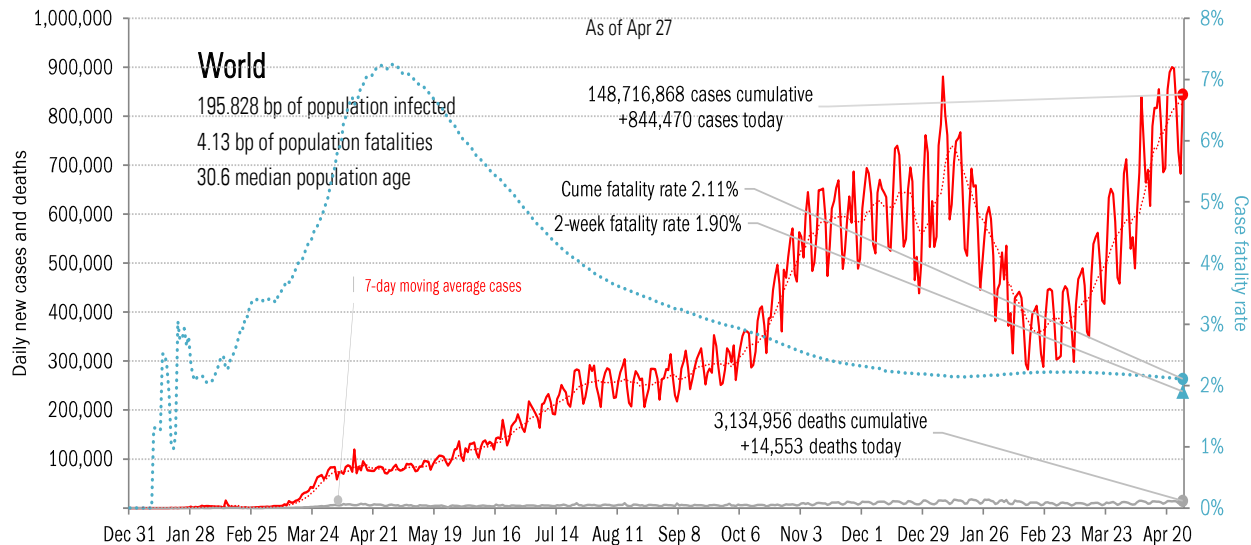
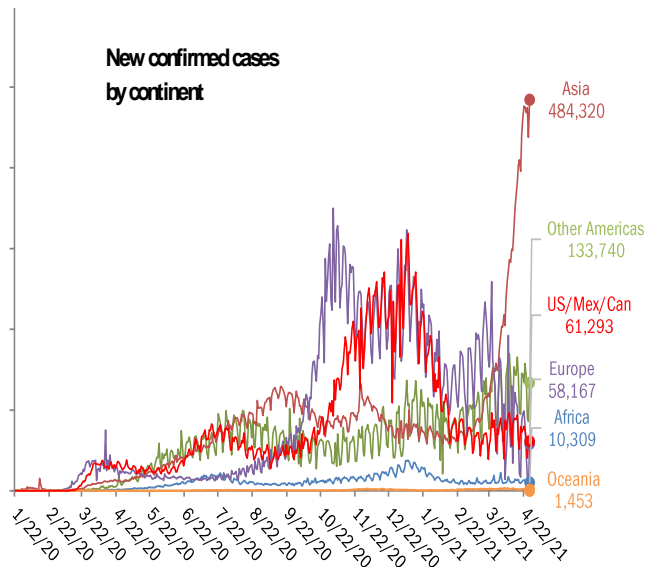


Data Insights: Covid-2019 Monitor

Wednesday, April 28, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+360,927	India	+3,293
Brazil	+72,140	Brazil	+3,086
United States	+50,856	United States	+707
Turkey	+43,301	Argentina	+512
France	+30,323	Iran	+462
Germany	+25,911	Poland	+460
Argentina	+25,495	Ukraine	+440
Iran	+20,963	Colombia	+436
Colombia	+17,578	Mexico	+434
Sweden	+14,911	Russia	+384
+662,405		+10,214	
World	+844,470	World	+14,553
Top ten	78%	Top ten	70%



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

For more information contact us:

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

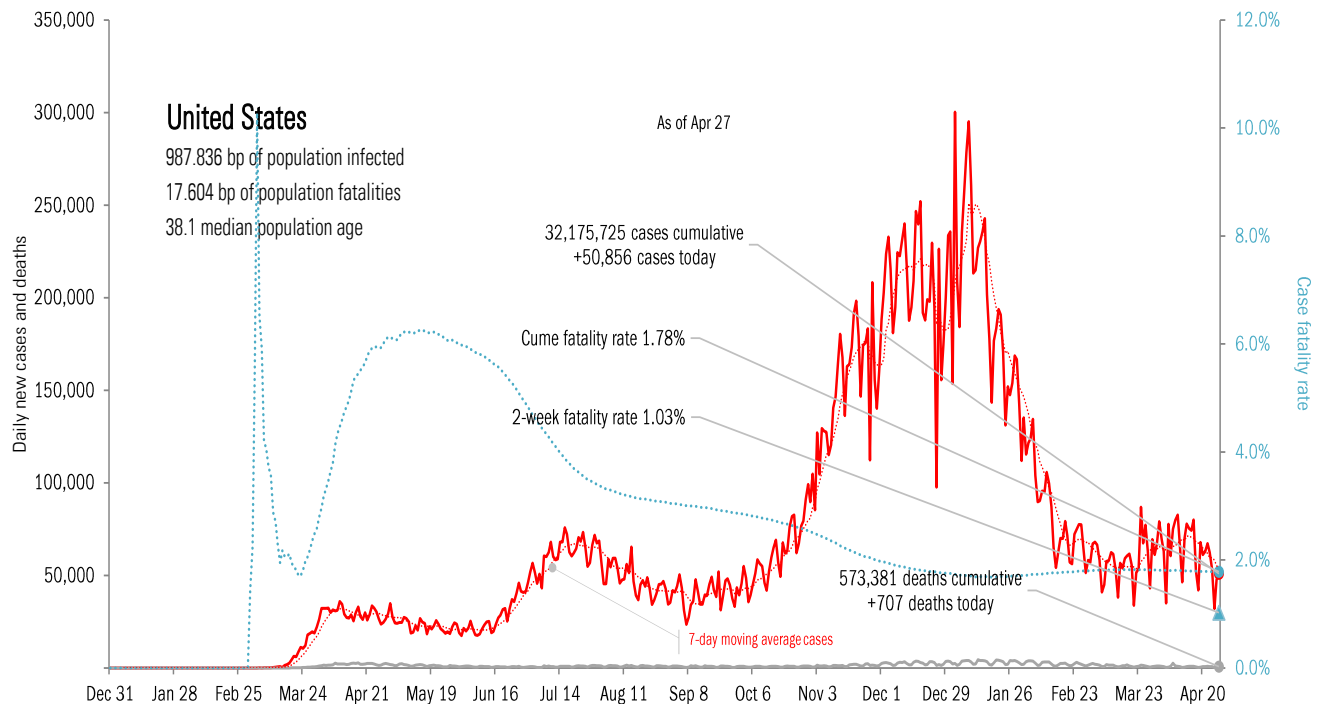
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
FL	+5,271		MI	+117		AZ	+41		CA	3,736,745		CA	61,526		TX	235,417		R	93%	MI	34%
MI	+4,584		NY	+75		CO	+29		TX	2,882,423		NY	52,117		CA	228,879		MA	84%	MD	24%
TX	+3,985		PA	+72		GA	+29		FL	2,217,368		TX	50,027		FL	164,290		CT	84%	MN	24%
PA	+3,638		CH	+66		FR	+19		NY	2,037,414		FL	34,958		NY	126,406		MD	83%	RI	19%
NY	+3,312		NJ	+61		WA	+15		IL	1,325,630		PA	26,048		GA	99,474		PA	82%	PA	18%
IL	+2,561		TX	+60		AL	+11		PA	1,141,240		NJ	25,460		PA	82,330		MI	82%	ME	18%
CA	+2,183		FL	+46		CA	+11		GA	1,095,879		IL	24,174		CH	80,384		MO	80%	DE	18%
NJ	+2,124		MO	+39		ME	+11		CH	1,067,262		GA	20,027		IL	74,355		GA	80%	CO	17%
CO	+2,014		CA	+26		DE	+8		NJ	991,010		CH	19,188		KY	71,177		FL	79%	NY	16%
CH	+1,560		IL	+24		ID	+8		NC	963,771		MI	18,563		MI	62,840		DC	79%	WV	14%
+31,232			+586			+182			17,458,742			332,088			1,225,552						
All states	+50,856		+707			-594			All states	32,175,725		573,381			2,185,562			All states	70%	67%	
Top ten	61%		83%			-31%			Top ten	54%		58%			56%			Median	72%	11%	

Some states not reporting

Five most improved US states

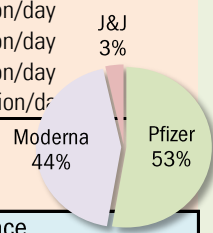
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NC	-4,543	WV	-159	MI	-175	ME	+115 bp
MI	-2,496	CT	-18	NY	-140	MS	+71 bp
CT	-1,760	FL	-18	PA	-132	SC	+65 bp
WA	-1,013	GA	-16	TX	-110	MP	+52 bp
TN	-823	NC	-14	IL	-97	UT	+51 bp



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

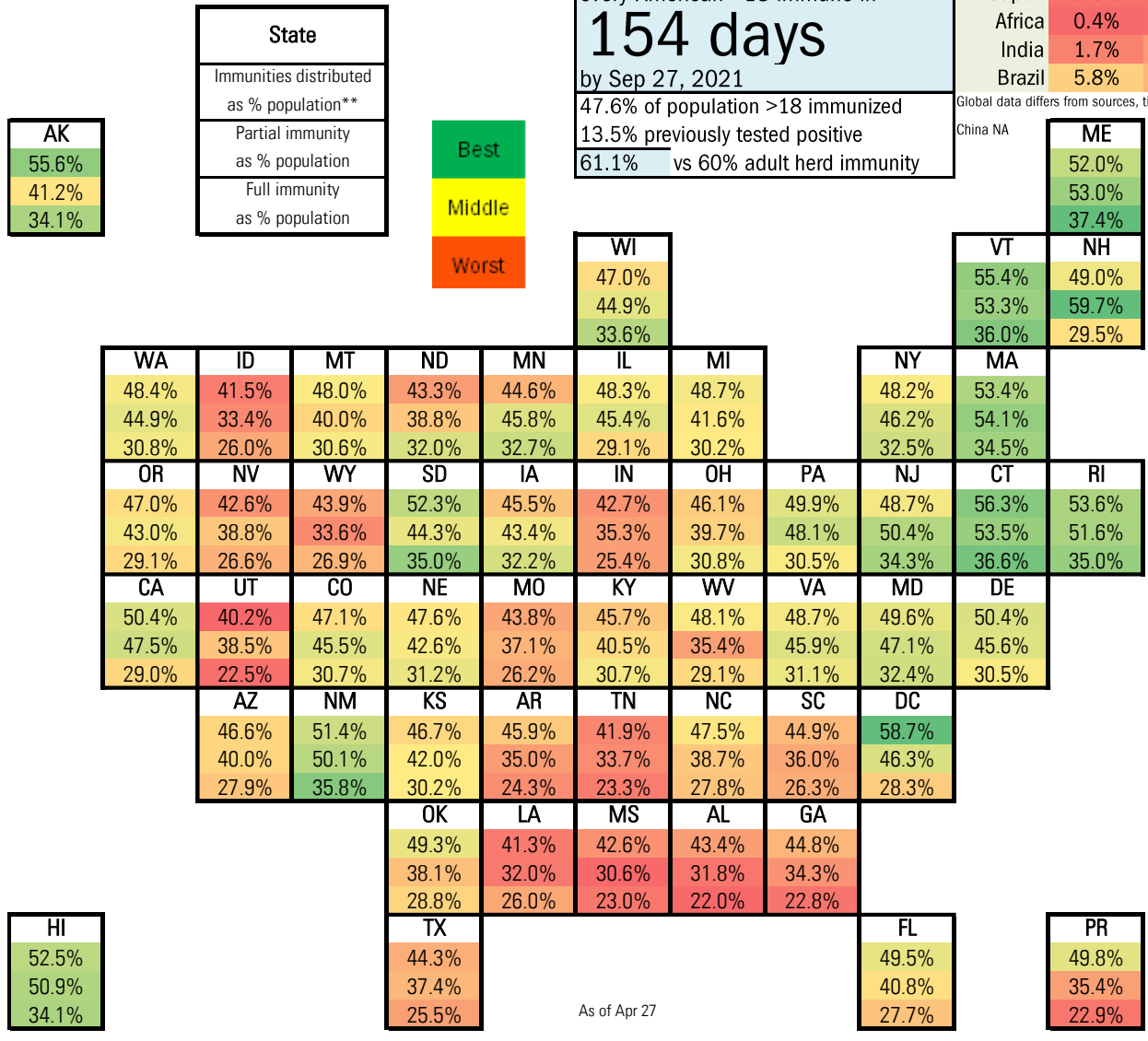
Rolling out the vaccines in the US and the world

US overall	Over last day	Immunity	Full	Partial
309.16 million doses distributed	+6.89 million/day	US	42.4%	42.4%
240.46 million doses administered	+1.64 million/day			
145.89 million persons partially immunized	+0.78 million/day			
100.05 million persons fully immunized	+0.86 million/day			
7.79 million shots long-term care residents/staff	+0.000 million/day			
77.8% of distributed doses administered				
43.7% of US pop partial	29.9% full immunity			
100% of LTC partial	64.1% full immunity			



Global data did not update correctly today at the source.

At today's dosing pace, every American >18 immune in **154 days** by Sep 27, 2021
 47.6% of population >18 immunized
 13.5% previously tested positive
 61.1% vs 60% adult herd immunity



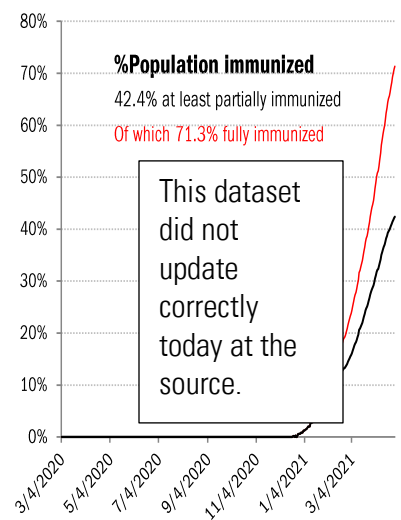
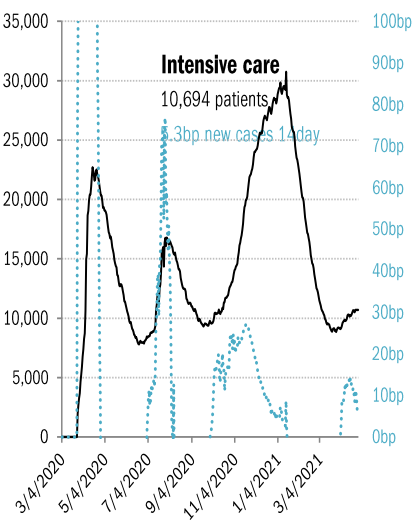
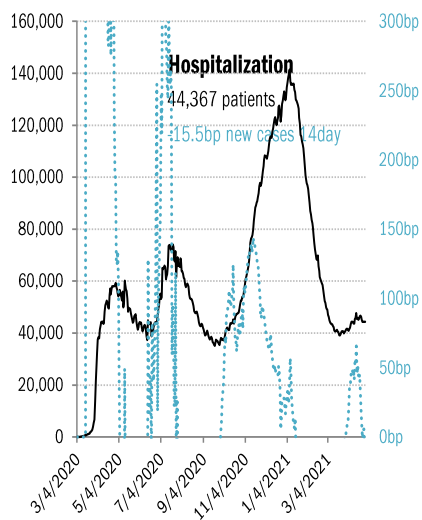
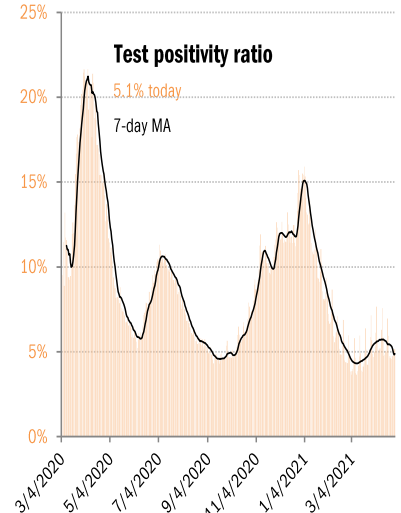
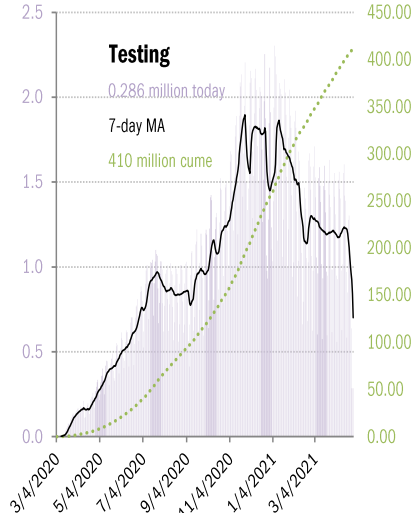
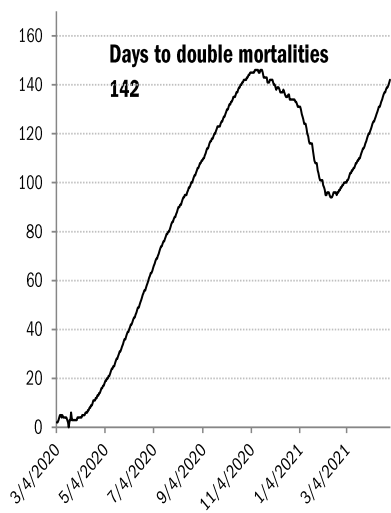
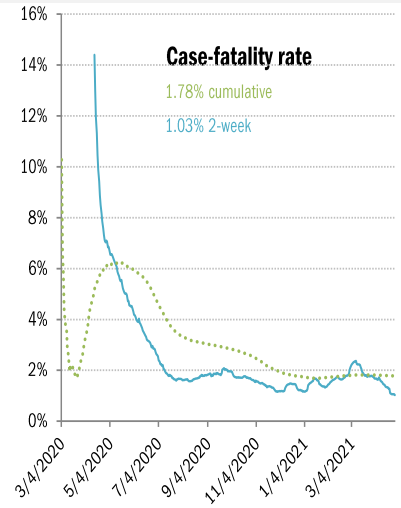
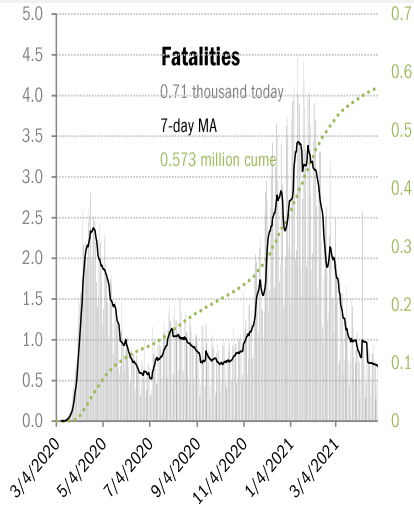
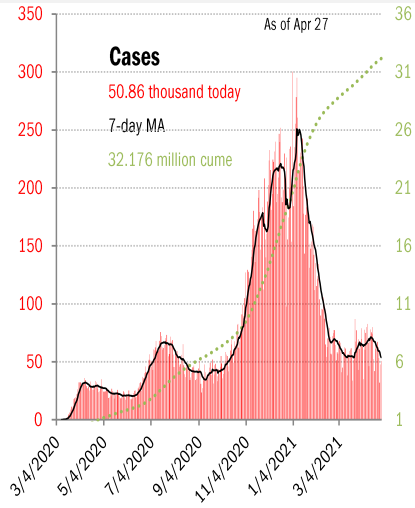
As of Apr 27

** 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

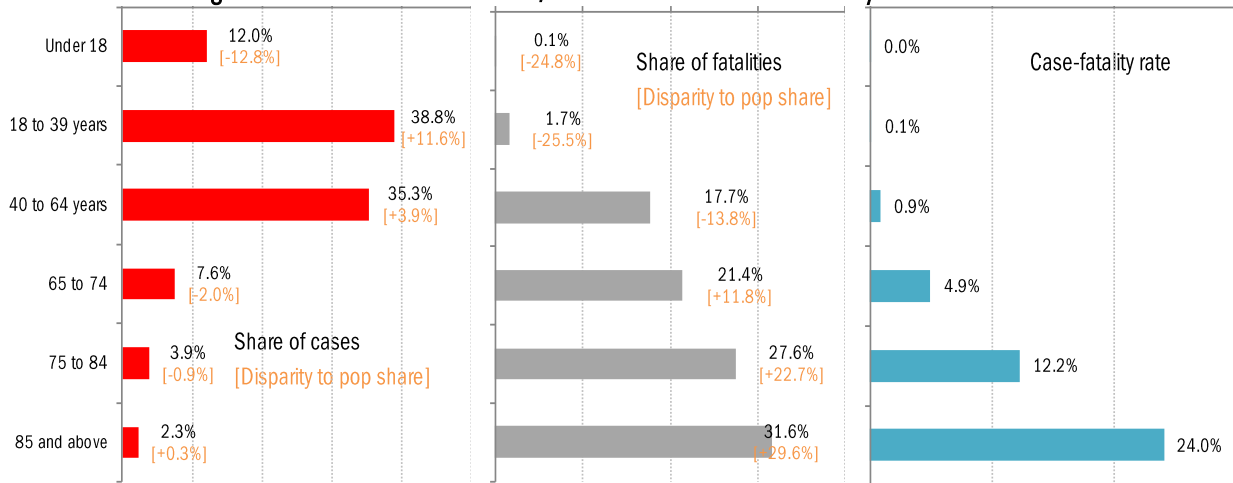
National and state-by-state data do not line up because of different sources



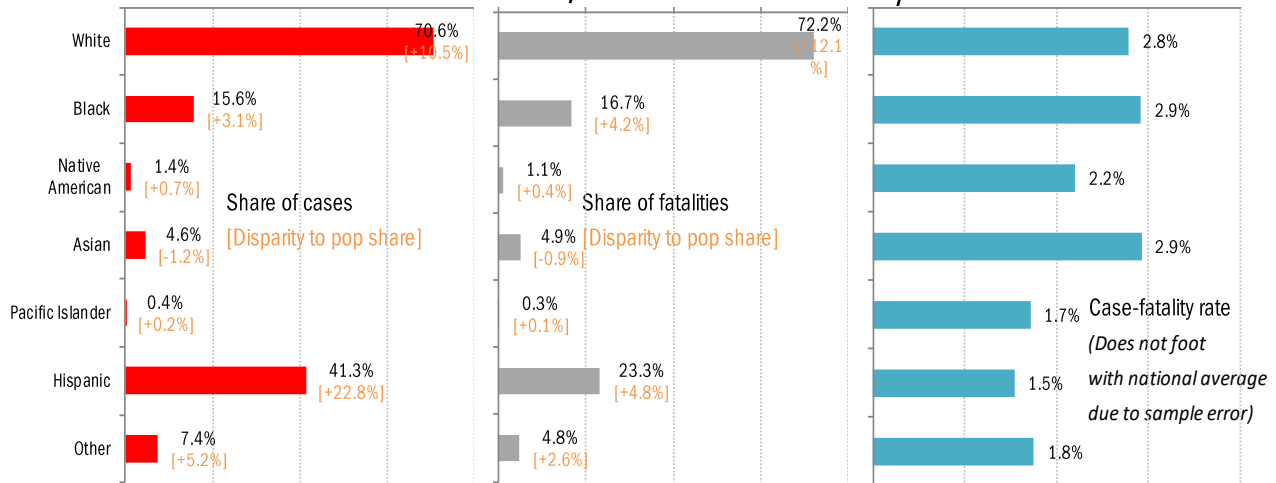
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

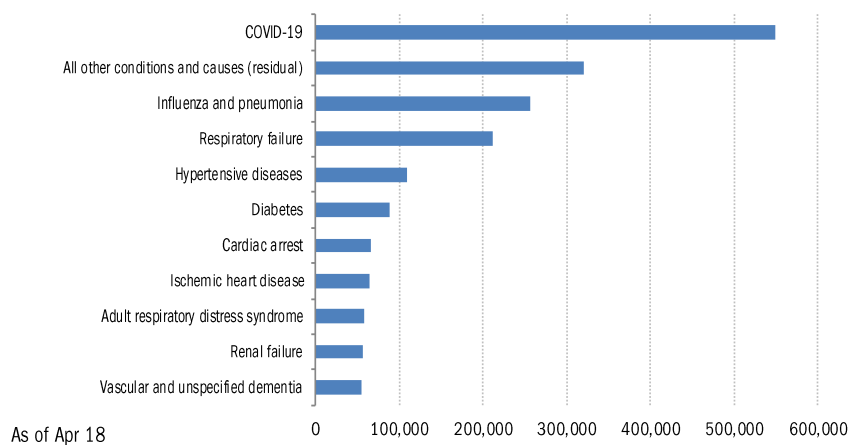


Racial distribution of US cases, fatalities and case-fatality rates



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

[How Pfizer Makes Its Covid-19 Vaccin](#)

Emma Cott, Elliot deBruyn and Jonathan Corum
New York Times
April 28, 2021

[How Europe Sealed a Pfizer Vaccine Deal With Texts and Calls](#)

Matina Stevis-Gridneff
New York Times
April 28, 2021

[Governors Complain That Biden, VP Skip Weekly COVID Calls](#)

Philip Wegmann
RealClear Politics
April 26, 2021

[CDC Eases Face Mask Guidelines for Fully Vaccinated People Outdoors](#)

Betsy McKay and Sabrina Siddiqui
Wall Street Journal
April 27, 2021

[U.S. Plastic Surgeons Expect Boom in Procedures Below Zoom Line](#)

Alexandre Tanzi
Bloomberg
April 27, 2021

[Merck taps five Indian drugmakers to expand COVID-19 drug production](#)

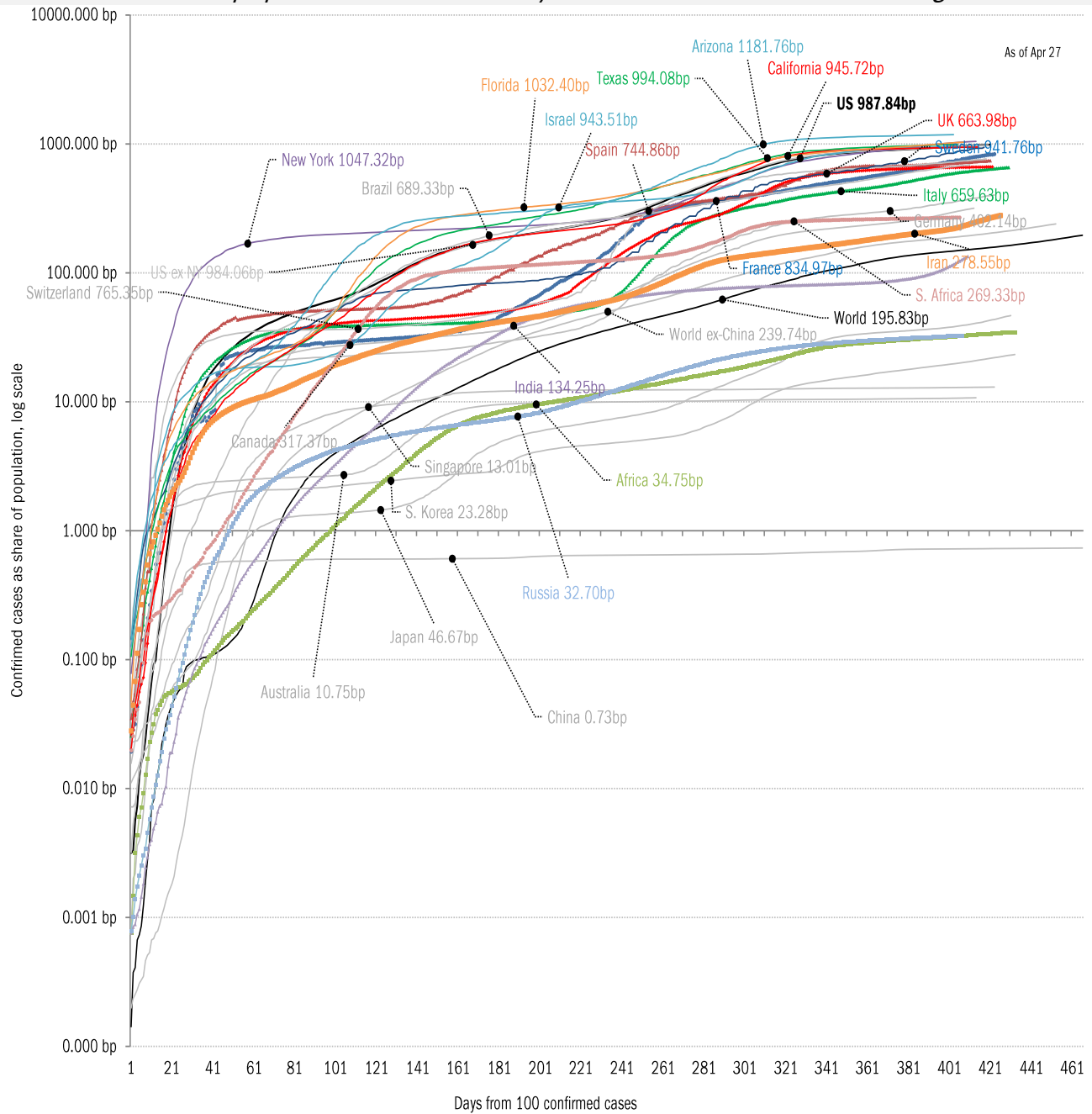
Reuters
April 27, 2021

Meme of the day



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

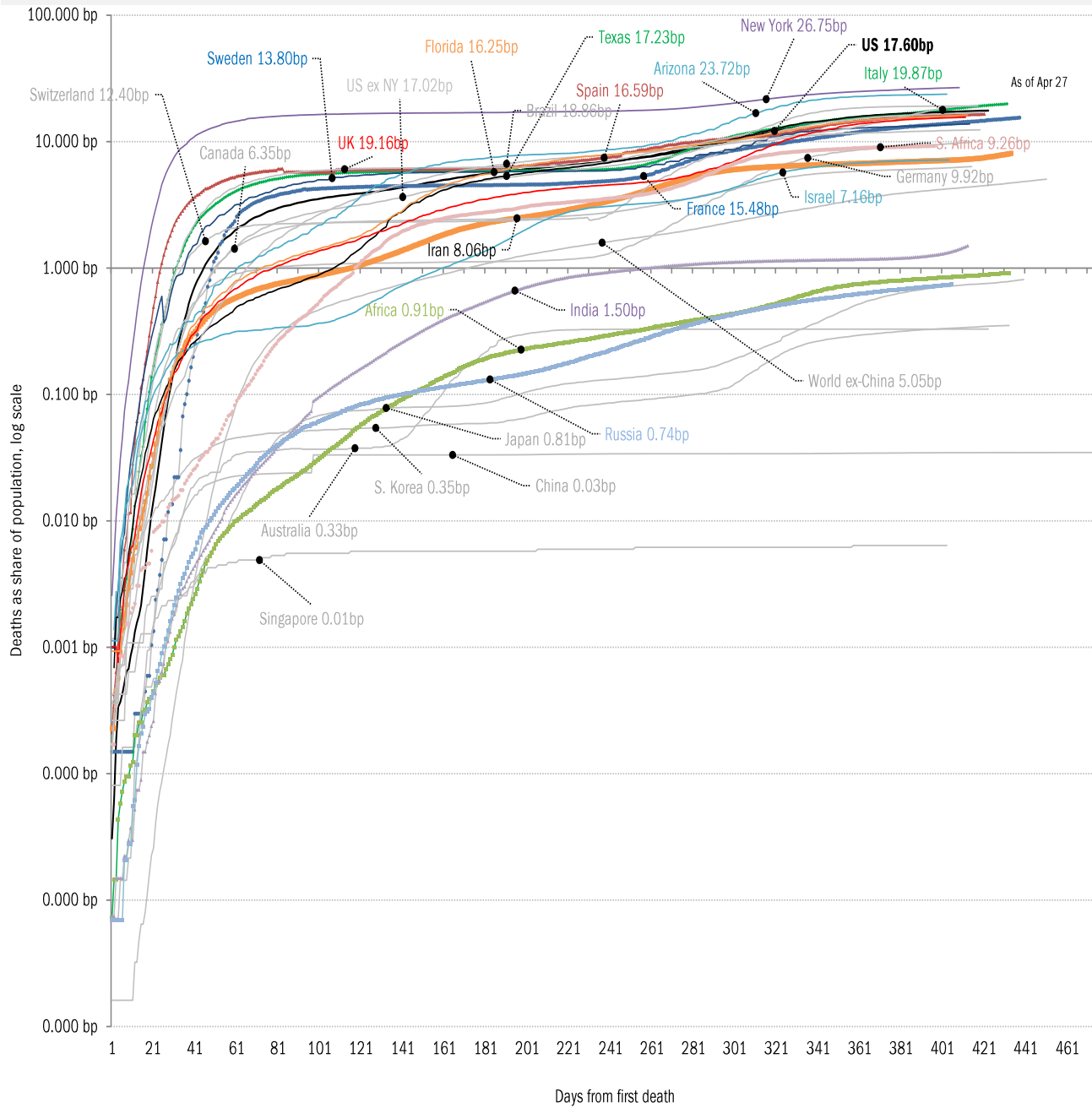
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

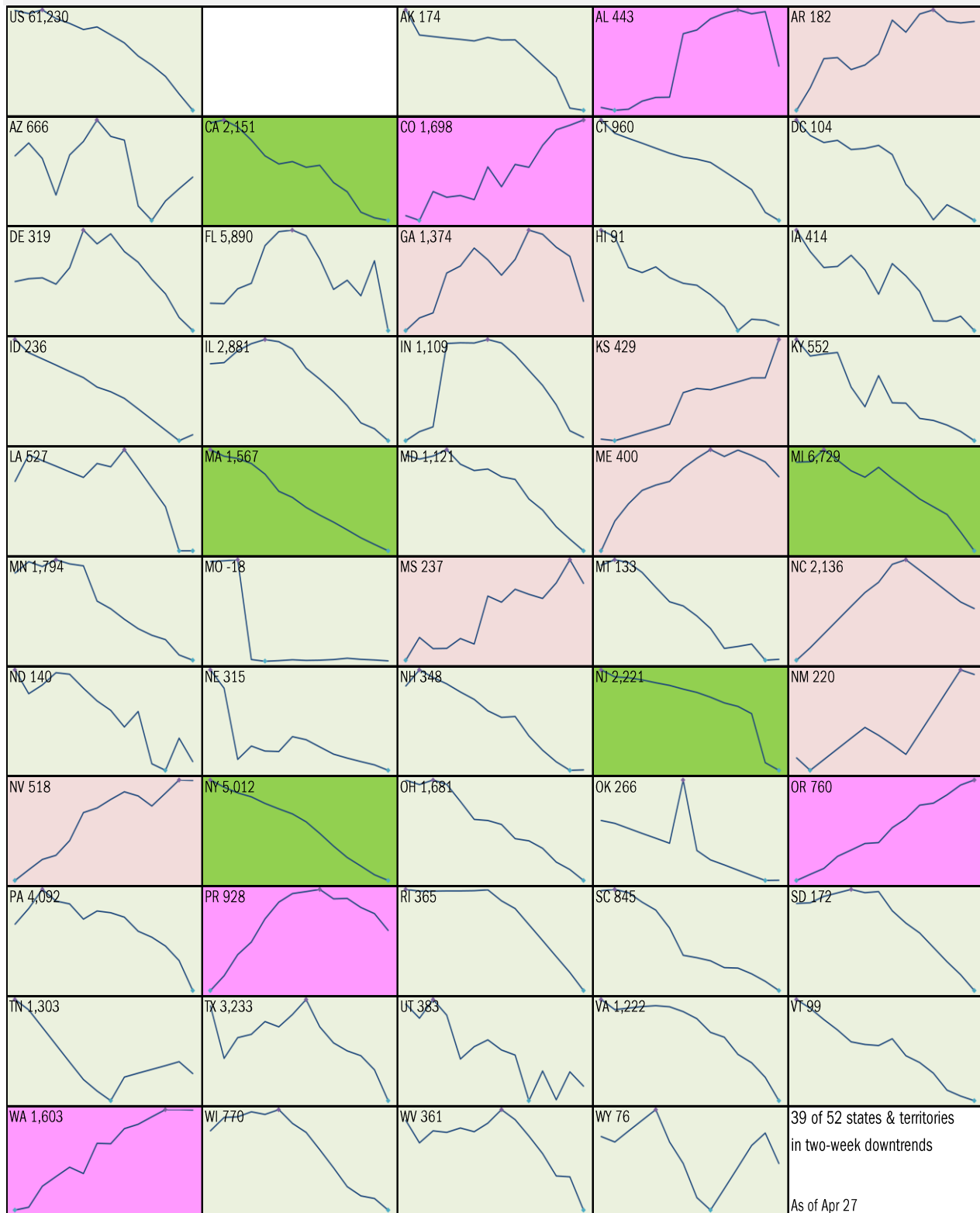


Source: [Johns Hopkins](#), TrendMacro calculations

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

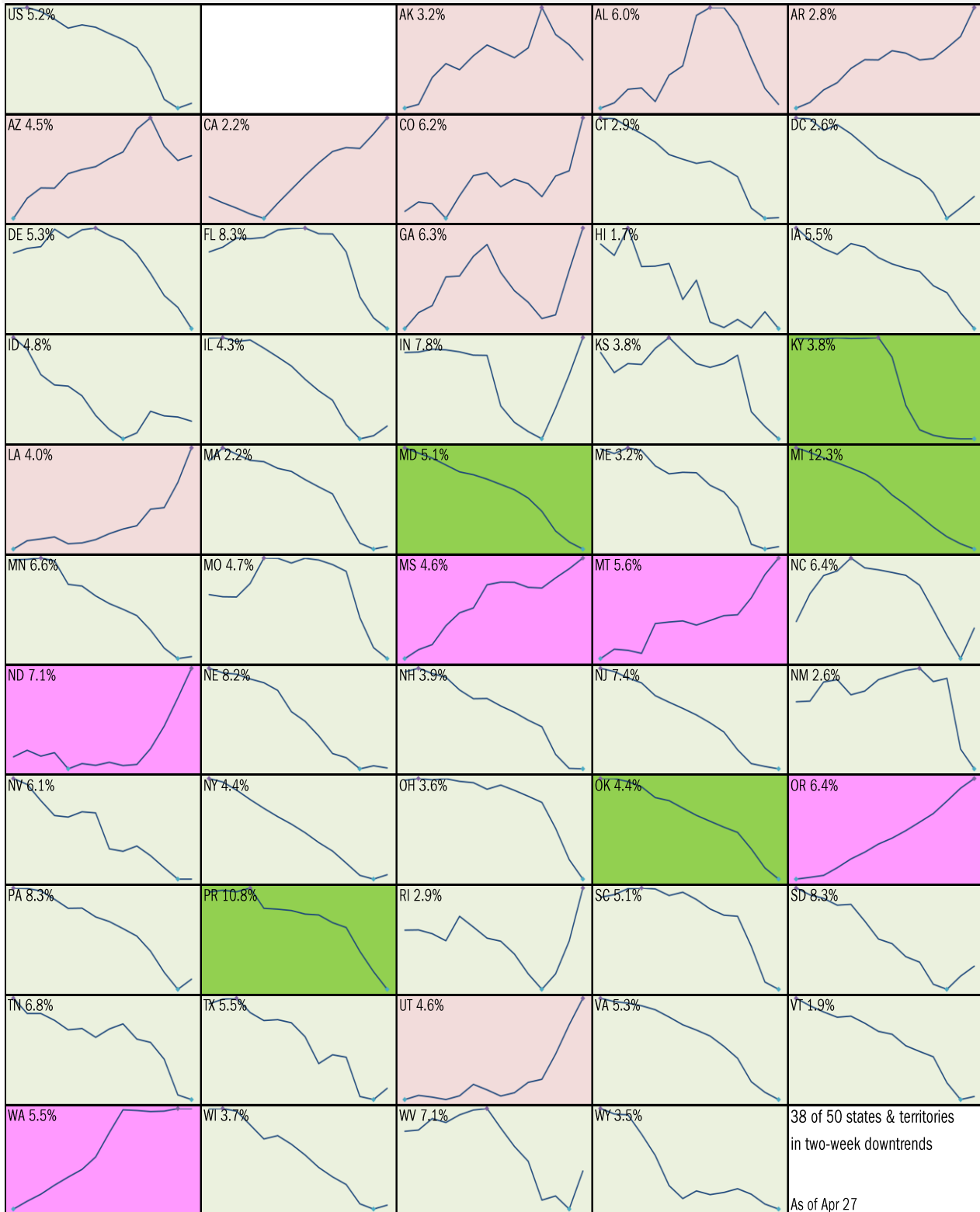


Source: [Johns Hopkins](#), TrendMacro calculations

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

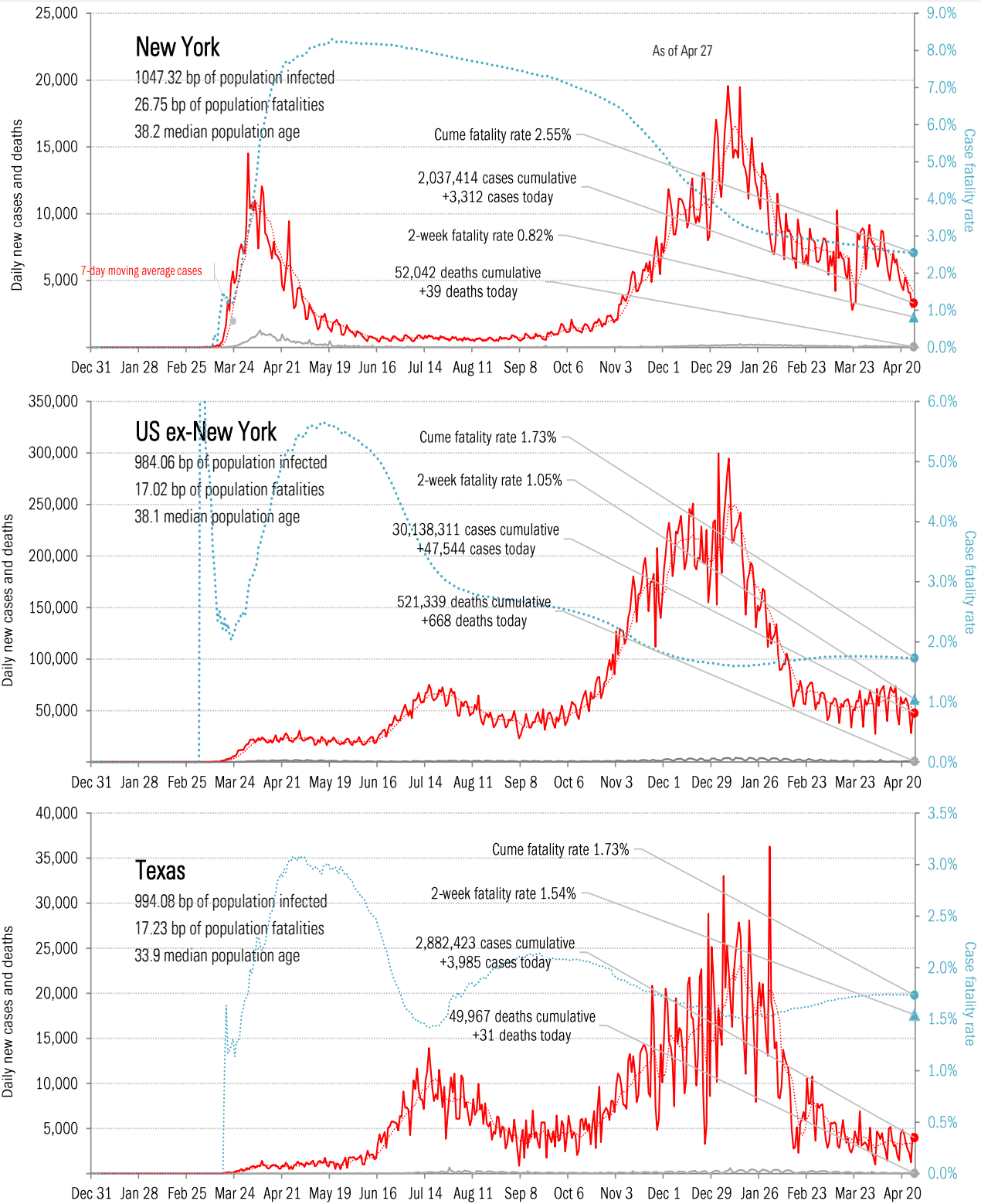
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



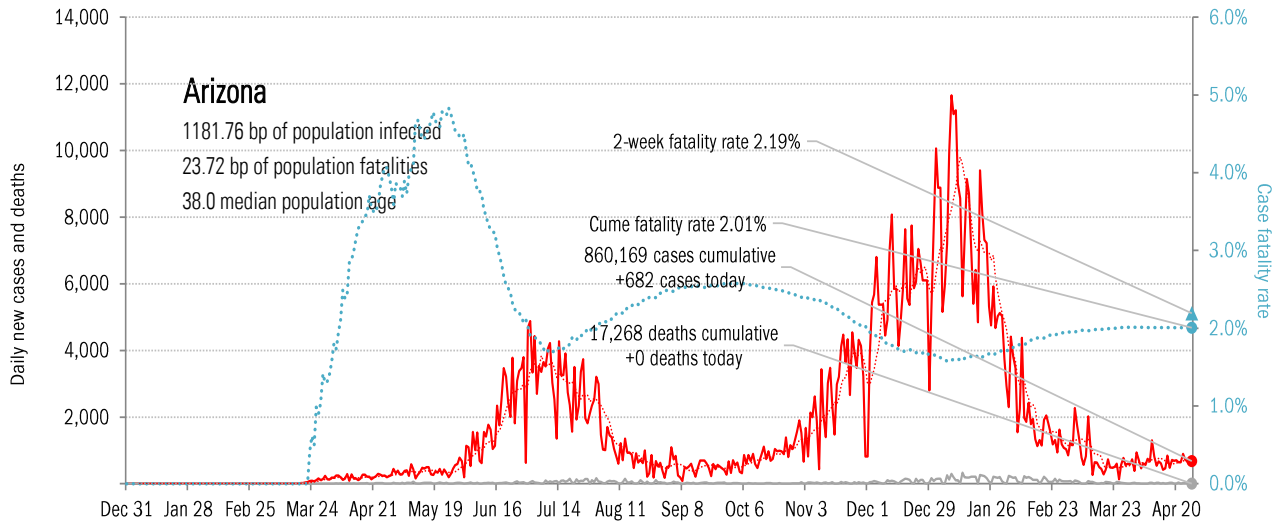
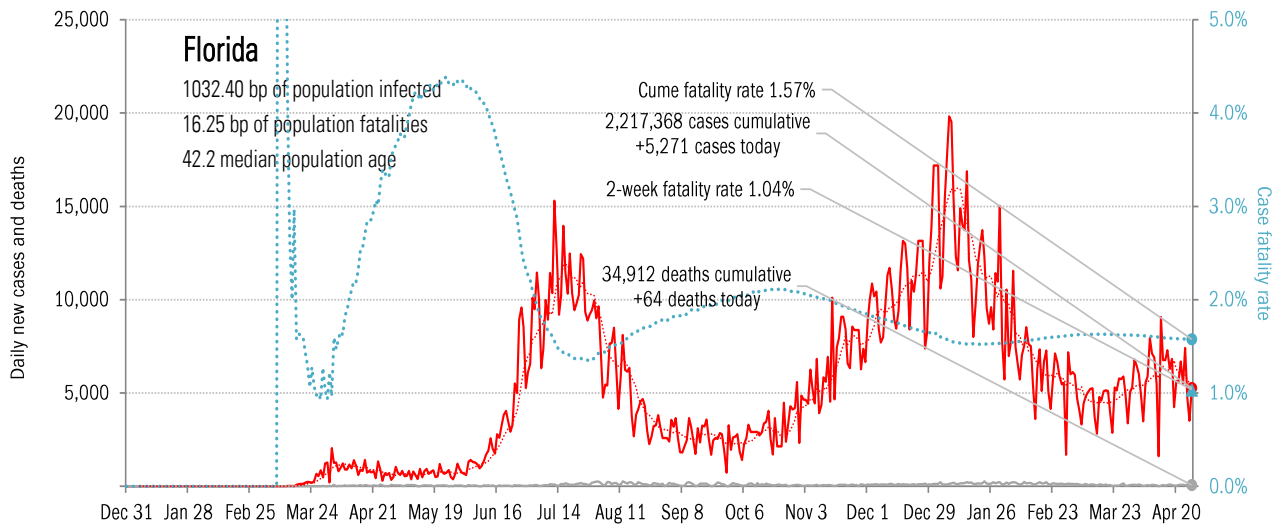
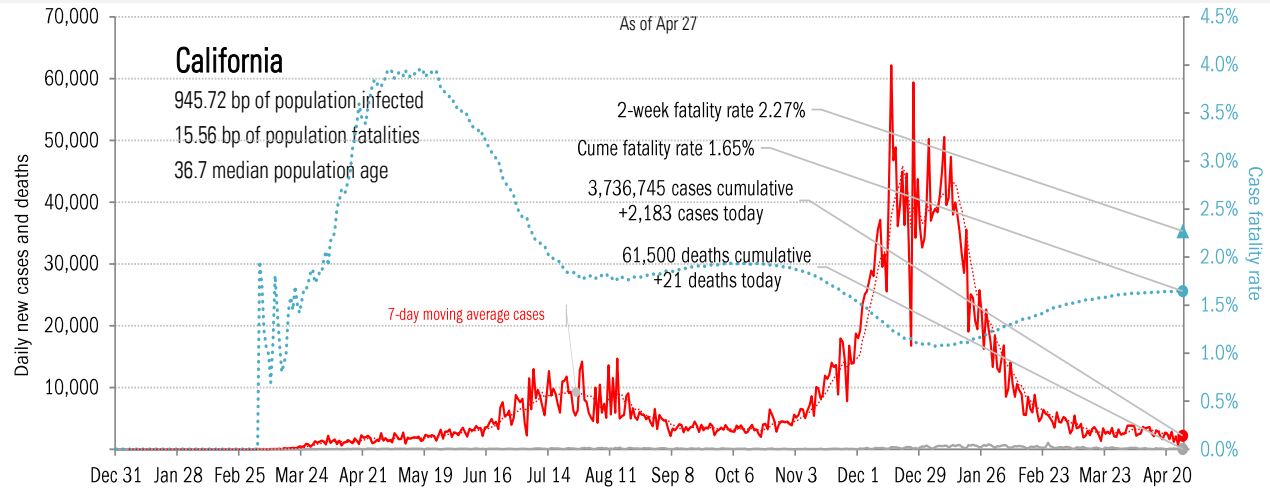
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



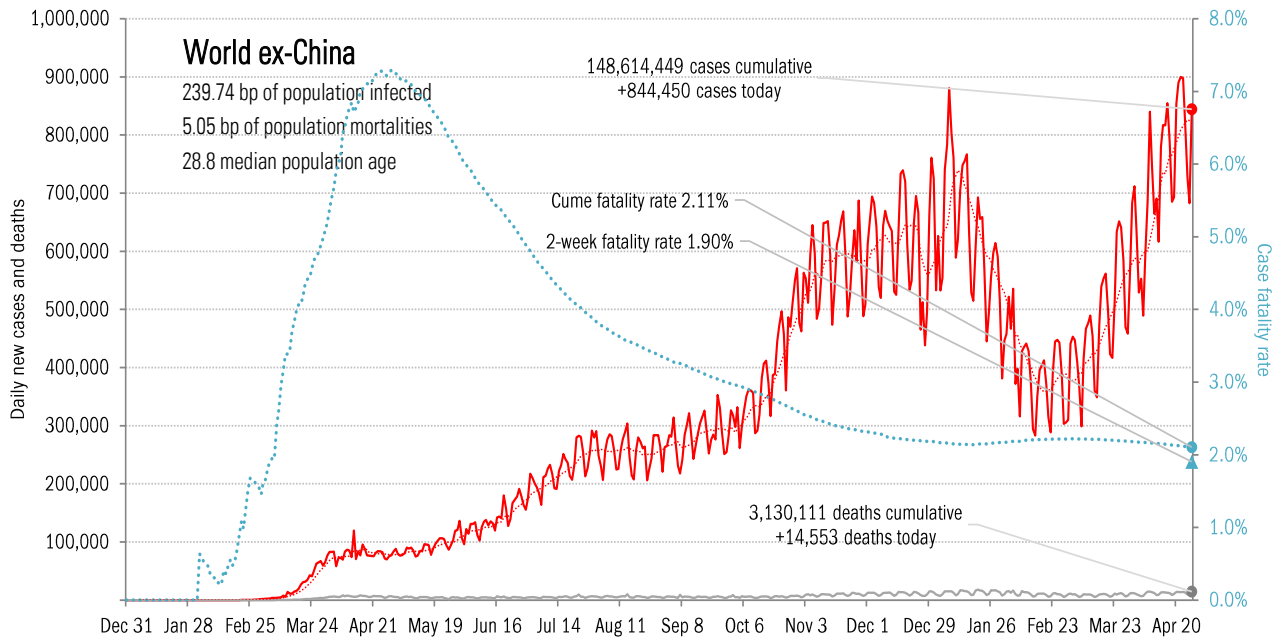
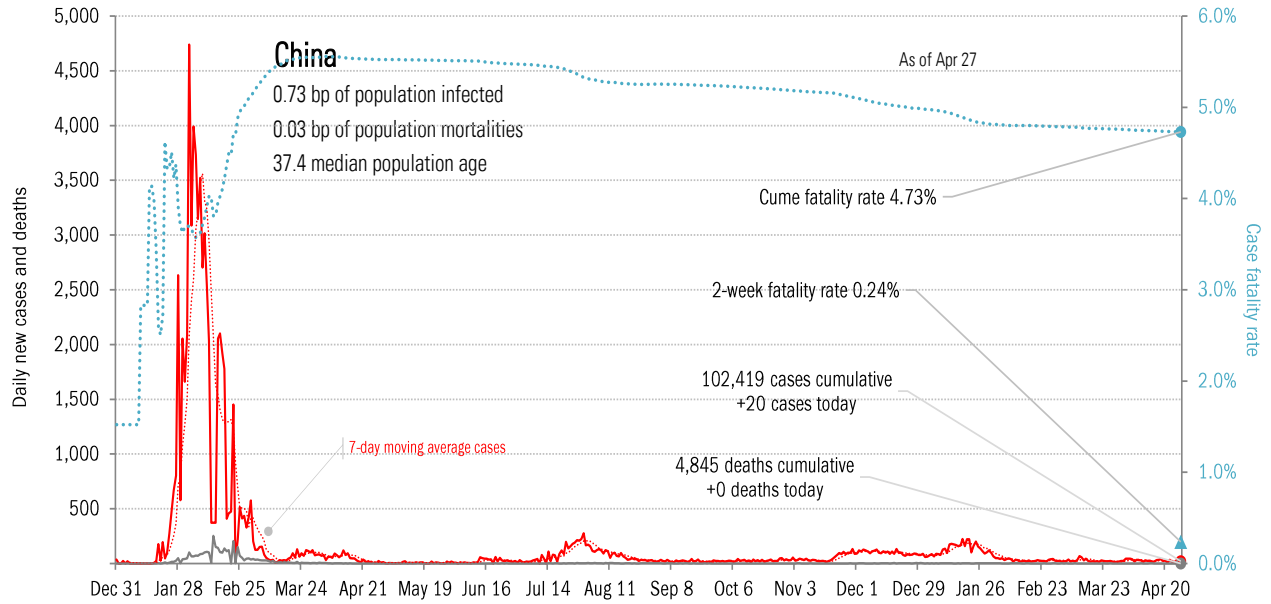
Source: [Johns Hopkins](#), TrendMacro calculations

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



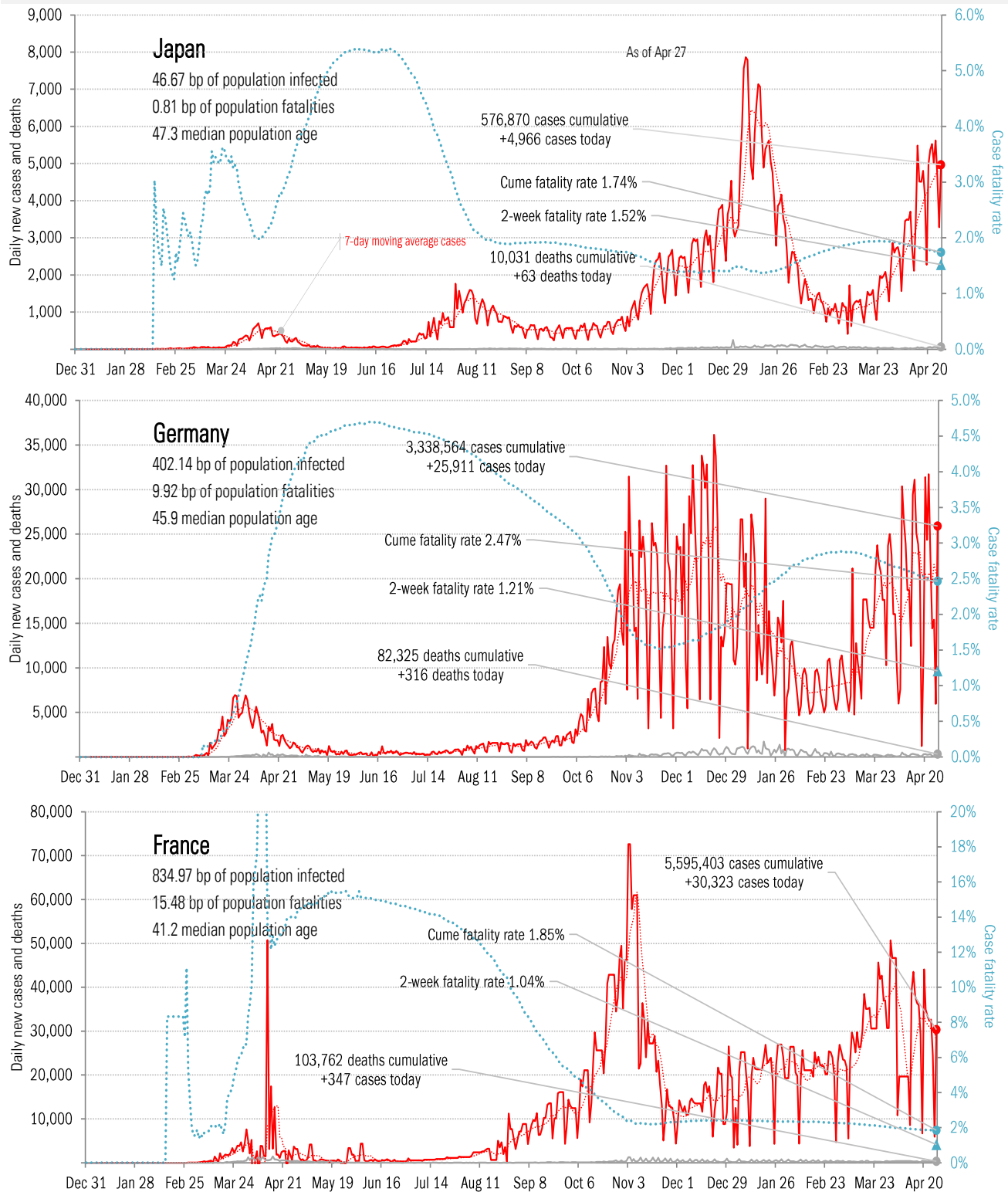
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



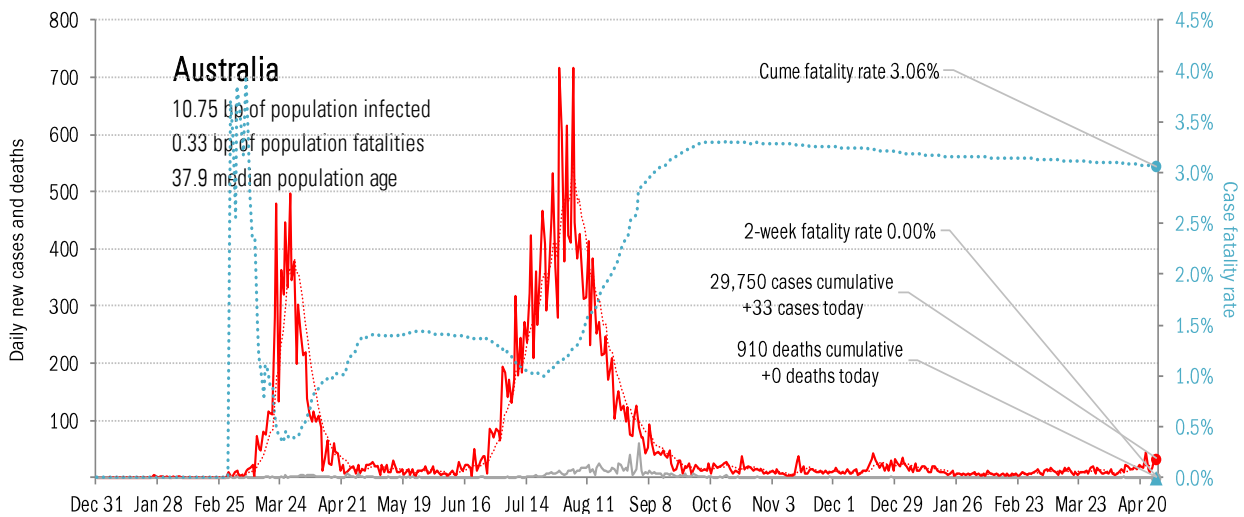
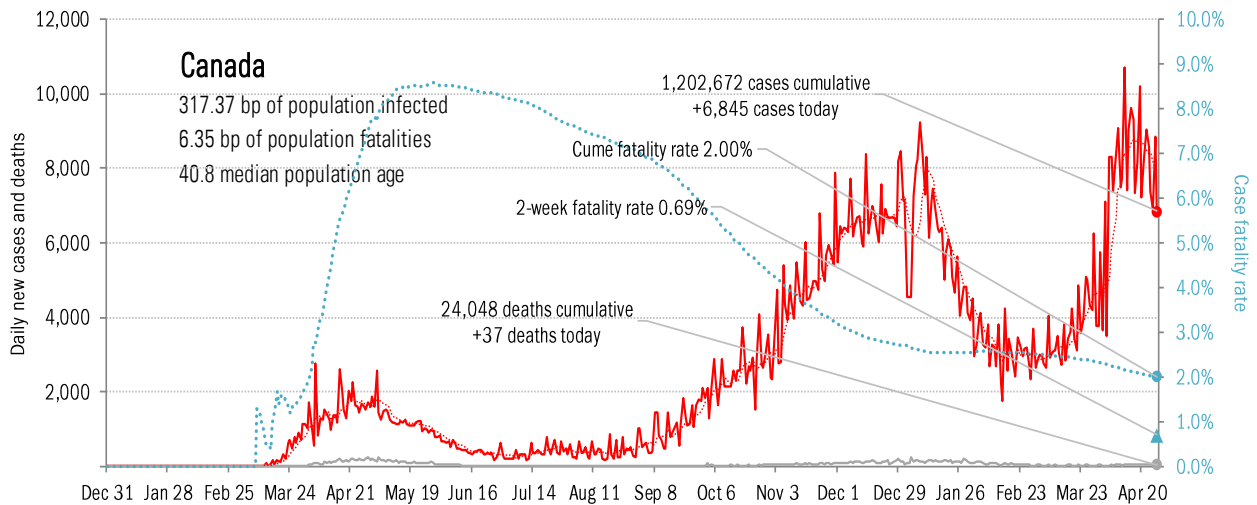
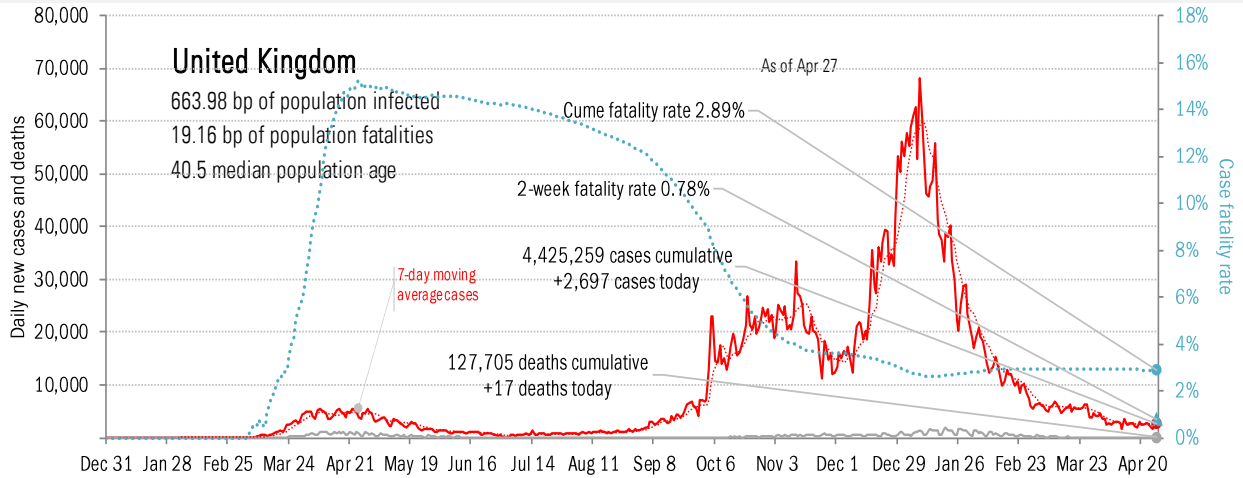
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



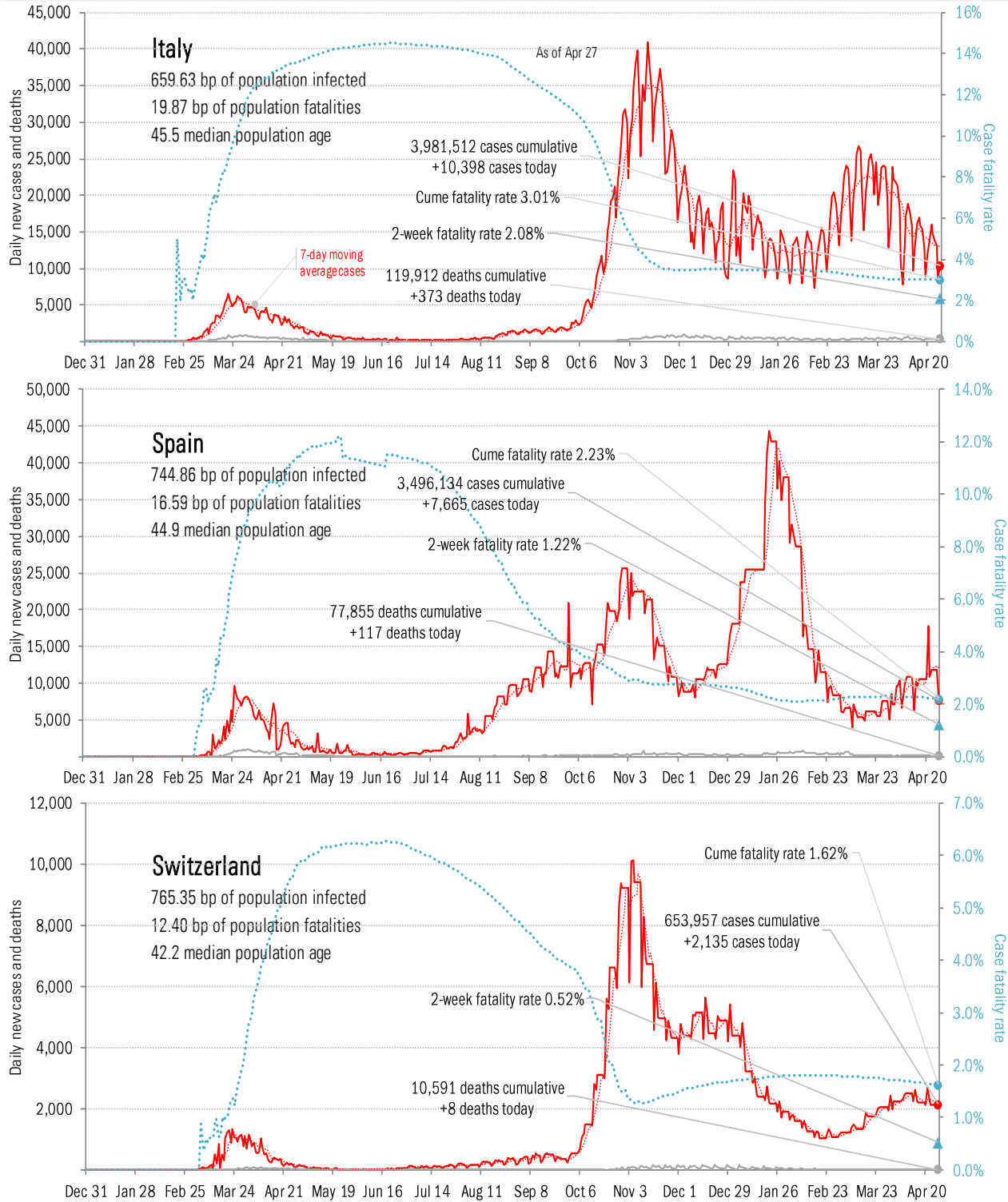
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



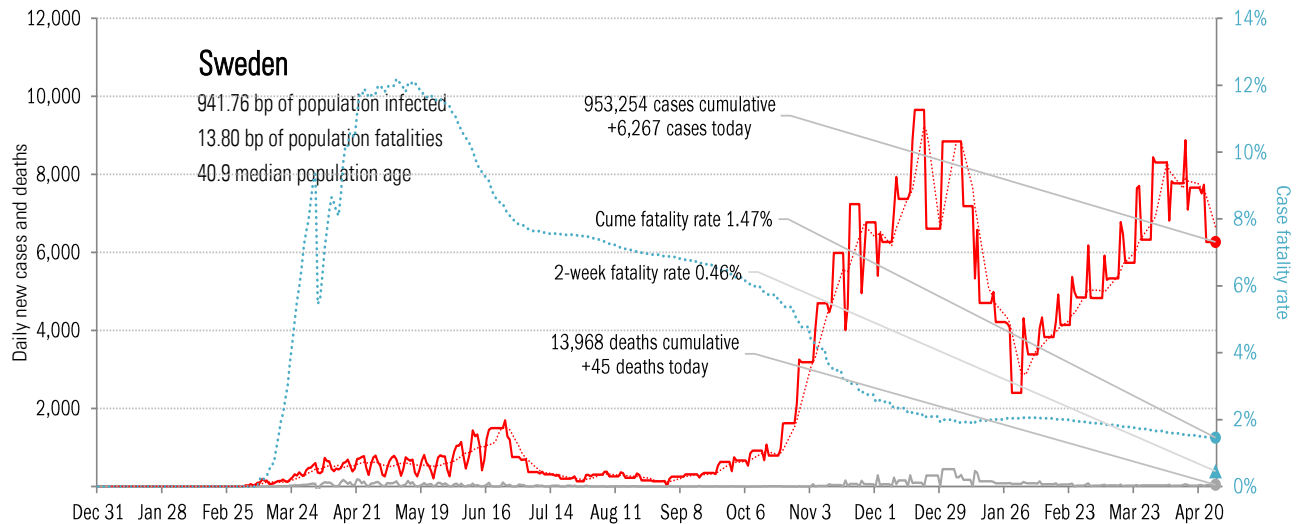
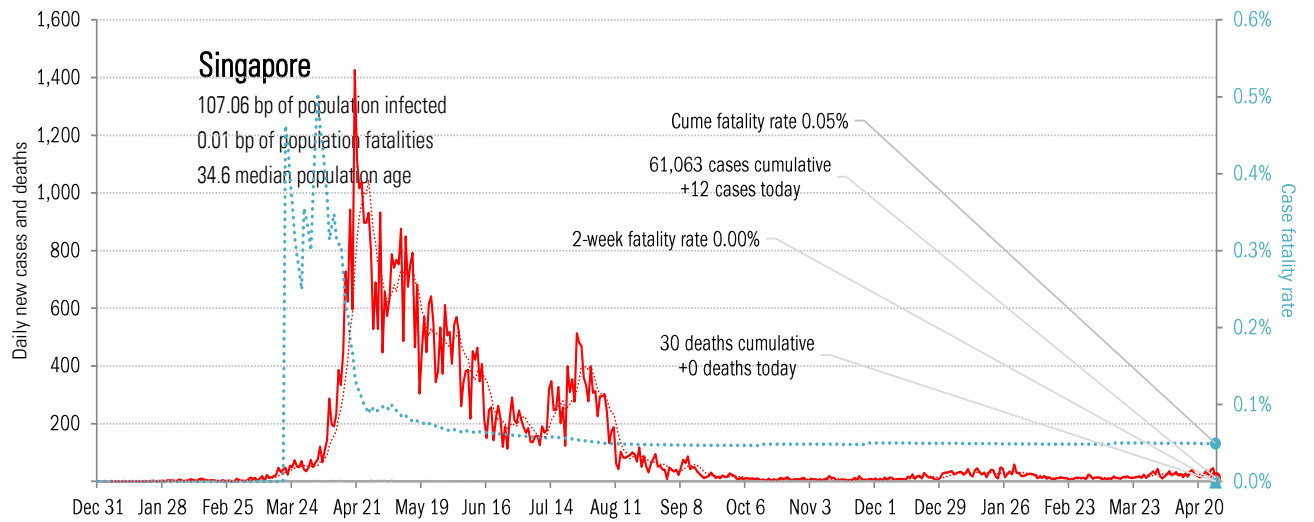
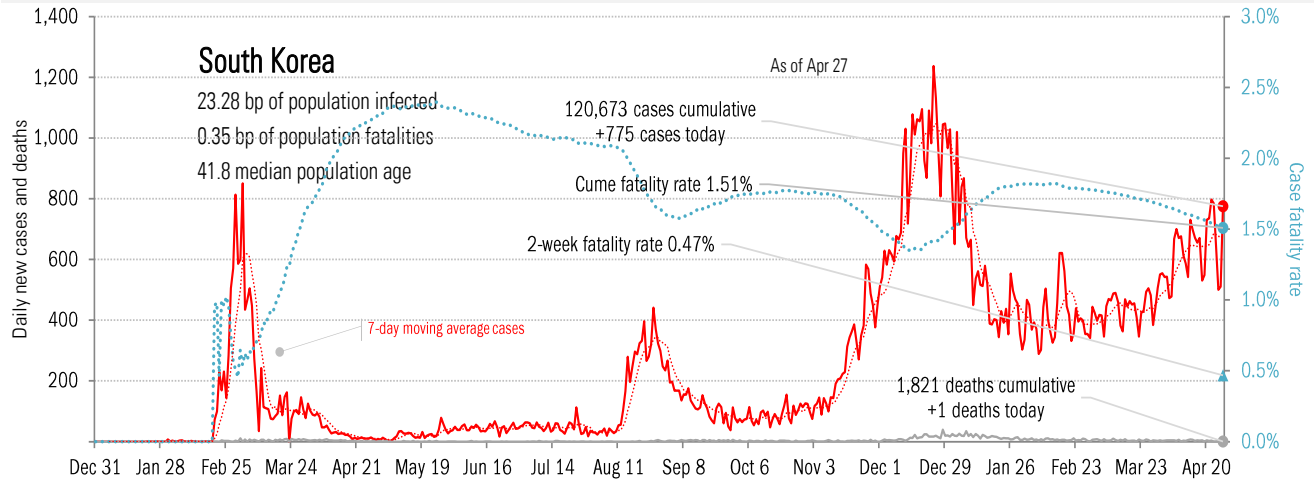
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



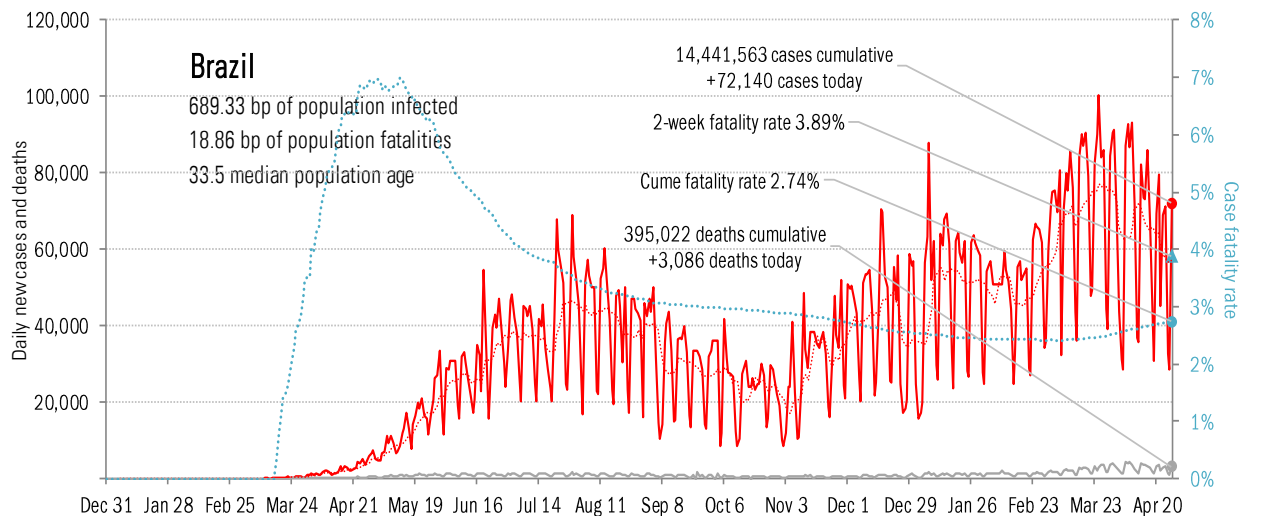
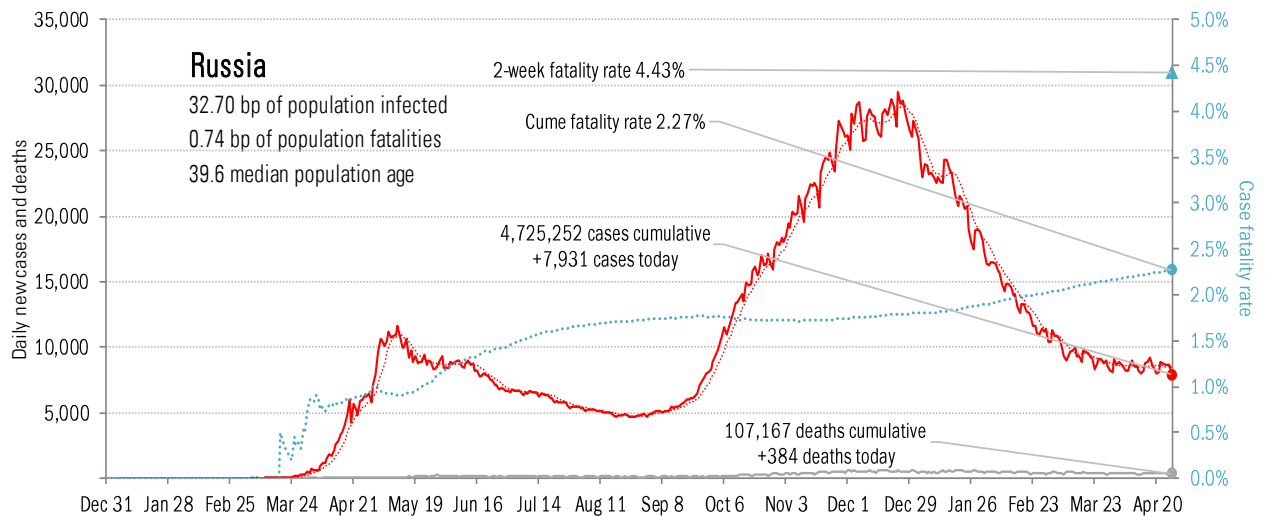
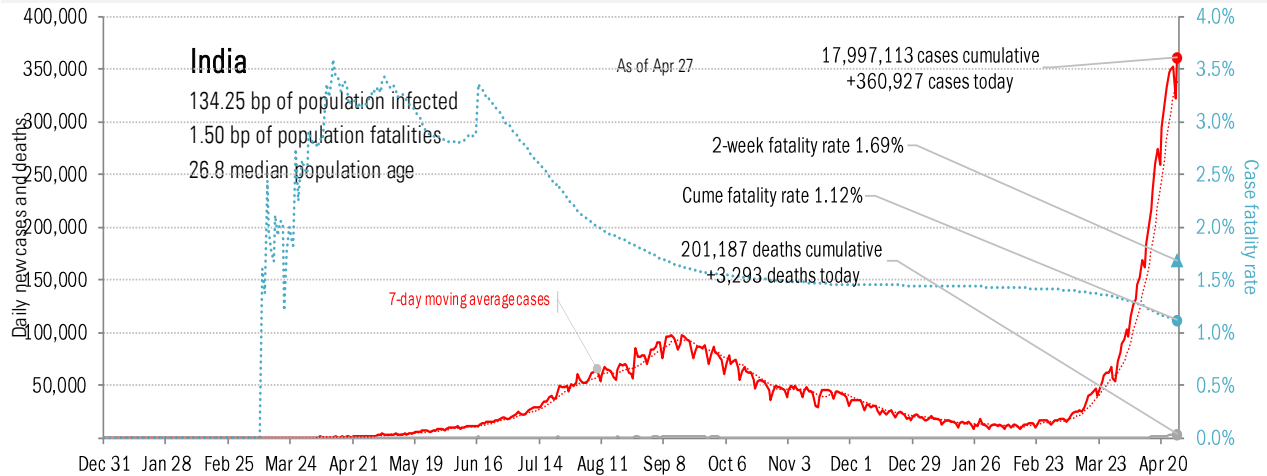
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



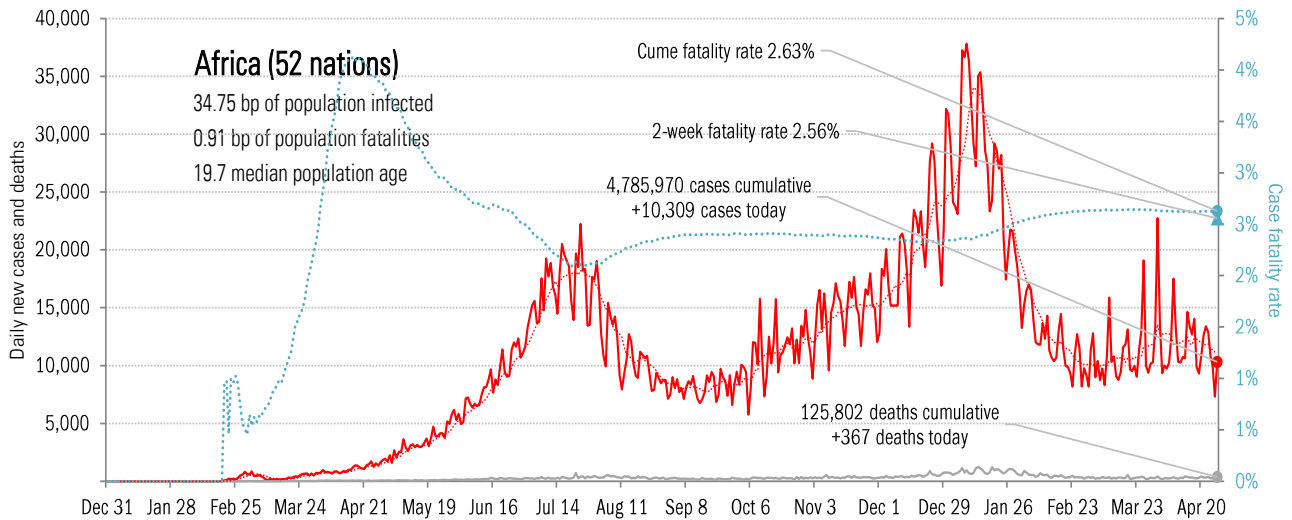
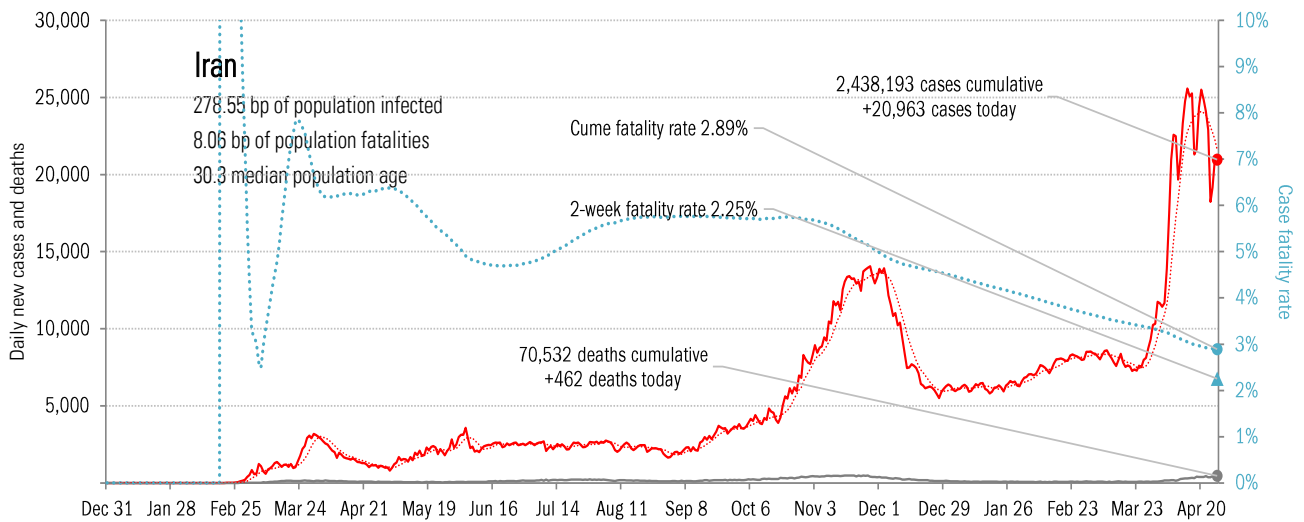
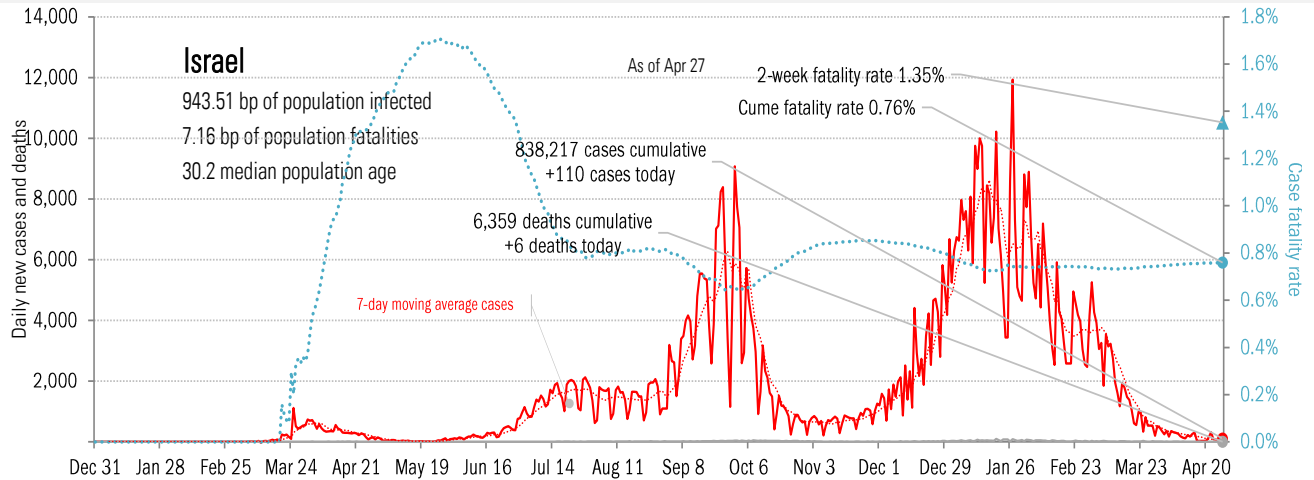
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



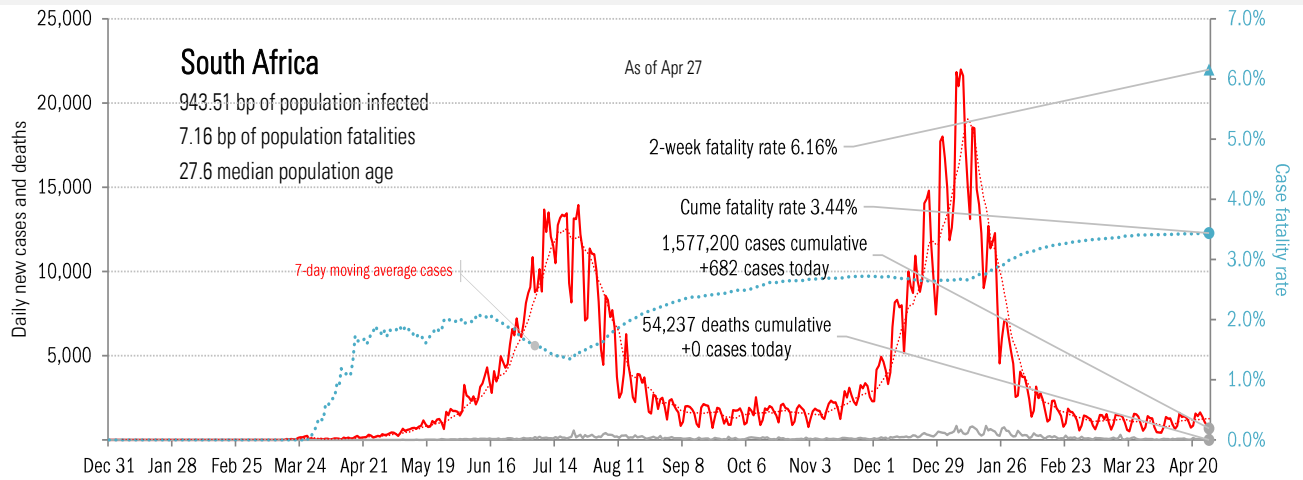
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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