

Data Insights: Covid-2019 Monitor

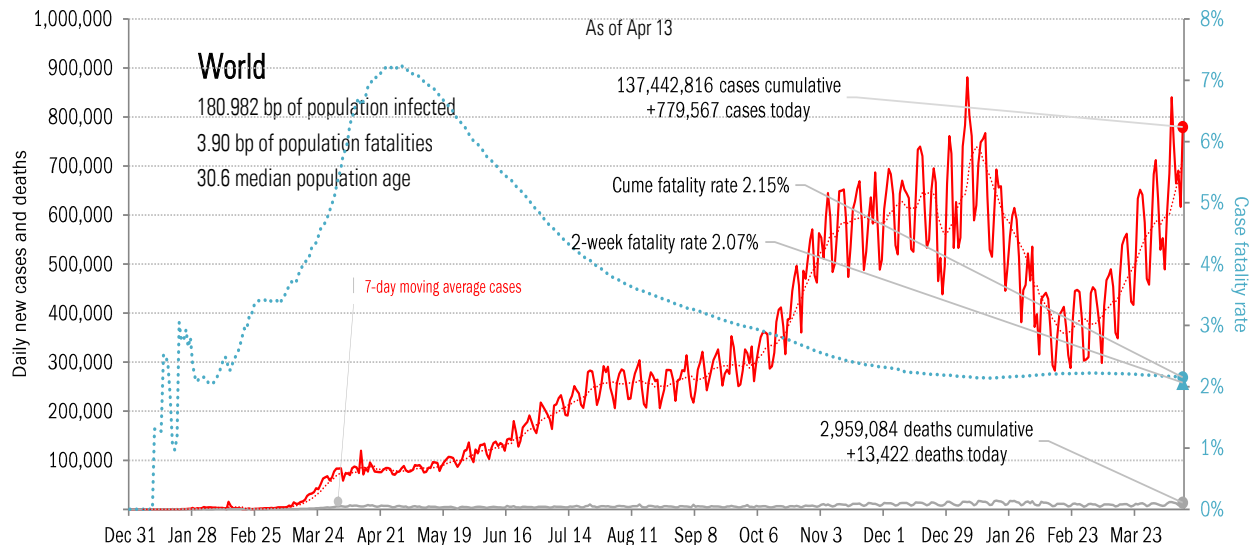
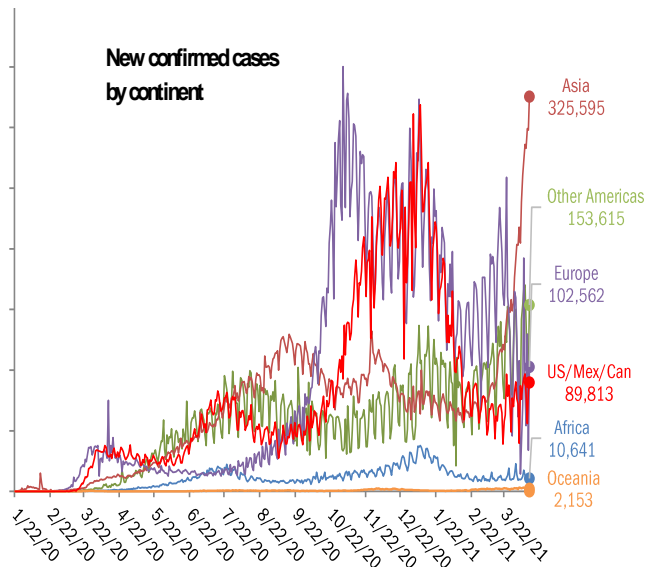
Wednesday, April 14, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+184,372	Brazil	+3,808
Brazil	+82,186	India	+1,027
United States	+77,878	United States	+913
Turkey	+59,187	Poland	+645
France	+39,125	Mexico	+580
Germany	+29,421	Italy	+476
Argentina	+27,001	Ukraine	+465
Iran	+24,760	France	+345
Sweden	+19,105	Germany	+341
Colombia	+16,377	Russia	+330
+559,412		+8,930	
World	+779,567	World	+13,422
Top ten	72%	Top ten	67%

New confirmed cases by continent



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

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The US scorecard

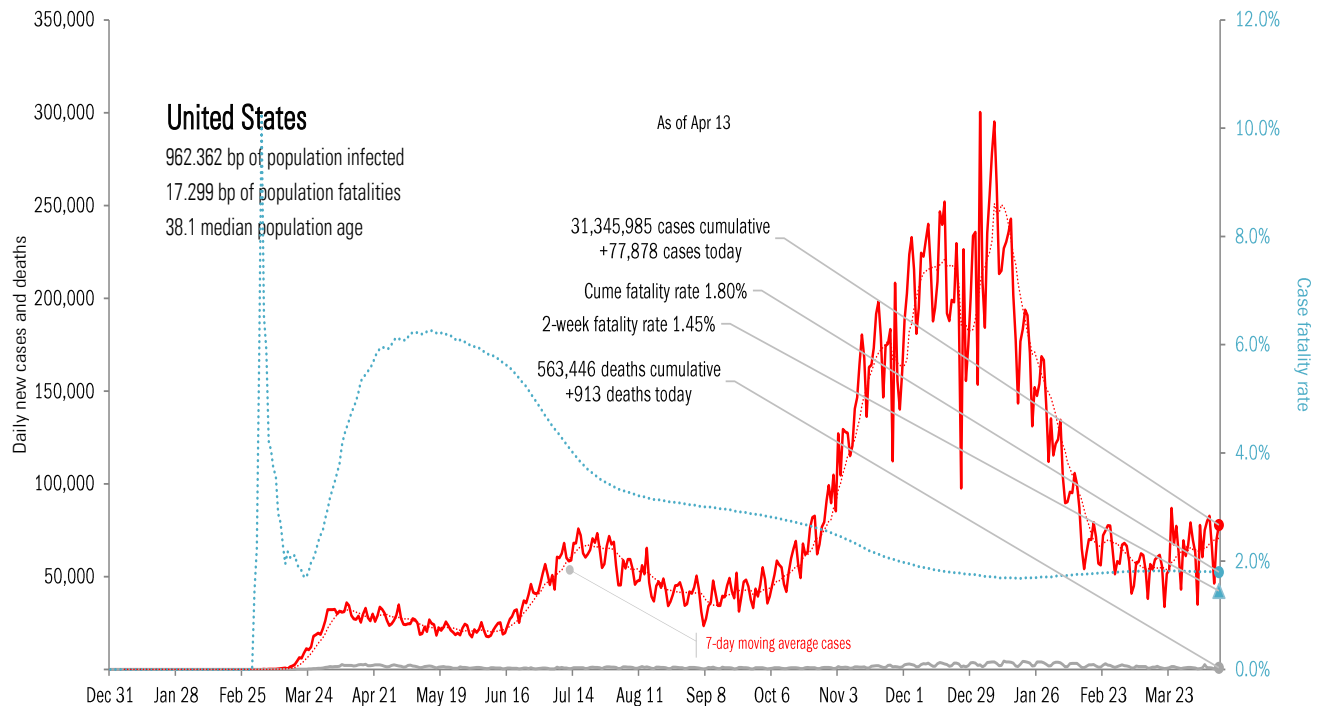
The ten worst US states

New cases			New Deaths			New in hospital			Cumulative cases			Cumulative deaths			Cumulative in hospital			Hospital use		ICU use	
MI	+10,277		CH	+90		FR	+205		CA	3,706,629		CA	60,547		TX	230,397		R	90%	MI	29%
FL	+9,068		MO	+83		MI	+124		TX	2,837,160		NY	51,258		CA	225,627		MA	84%	MD	25%
PA	+6,017		MI	+81		GA	+108		FL	2,134,914		TX	49,289		FL	157,459		MD	83%	RI	20%
TX	+5,188		FL	+64		IL	+54		NY	1,967,248		FL	34,120		NY	120,811		PA	81%	NY	18%
NY	+5,023		TX	+58		FL	+38		IL	1,285,298		PA	25,451		GA	96,993		MO	81%	DC	18%
NJ	+3,963		NY	+54		NJ	+30		PA	1,083,953		NJ	24,945		CH	77,697		MI	80%	PA	16%
IL	+3,184		PA	+54		ND	+25		GA	1,076,644		IL	23,826		PA	77,625		CT	80%	MN	16%
CA	+2,559		CA	+52		MN	+24		CH	1,043,729		GA	19,548		IL	70,990		MN	79%	NJ	14%
CH	+2,340		NJ	+49		WA	+21		NJ	959,921		CH	18,917		KY	69,597		FL	78%	TX	14%
VA	+2,048		GA	+25		CO	+18		NC	936,425		MI	17,657		AZ	59,058		WV	78%	WV	13%
+49,667			+610			+647			17,031,921			325,558			1,186,254						
All states	+77,878			+913			+776		All states	31,345,985			563,446			2,115,580		All states	70%		67%
Top ten	64%			67%			83%		Top ten	54%			58%			56%		Median	71%		10%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NC	-4,291	NY	-33	MI	-93	AK	+282 bp
CT	-1,867	NC	-27	MD	-69	ME	+198 bp
TN	-1,372	MA	-12	KY	-68	GA	+134 bp
CA	-1,040	LA	-11	CT	-27	NE	+122 bp
OK	-859	GA	-10	IN	-26	MD	+102 bp



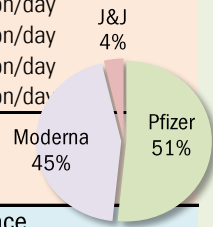
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

US overall	Over last day	Immunity	Full	Partial
255.94 million doses distributed	+7.88 million/day	US	22.5%	36.6%
199.53 million doses administered	+2.61 million/day	UK	11.6%	47.5%
126.16 million persons partially immunized	+1.45 million/day	France	5.6%	16.2%
78.18 million persons fully immunized	+1.27 million/day	Spain	6.7%	17.0%
7.77 million shots long-term care residents/staff	+0.00 million/day	Germany	6.2%	16.8%
		Italy	6.7%	15.8%
		Australia	0.8%	0.6%
		Israel	57.3%	61.6%
		Canada	2.2%	20.6%
		Japan	0.5%	0.9%
		Africa	0.3%	0.7%
		India	1.0%	7.1%
		Brazil	3.4%	11.1%

78.0% of distributed doses administered
 37.8% of US pop partial
 100% of LTC partial

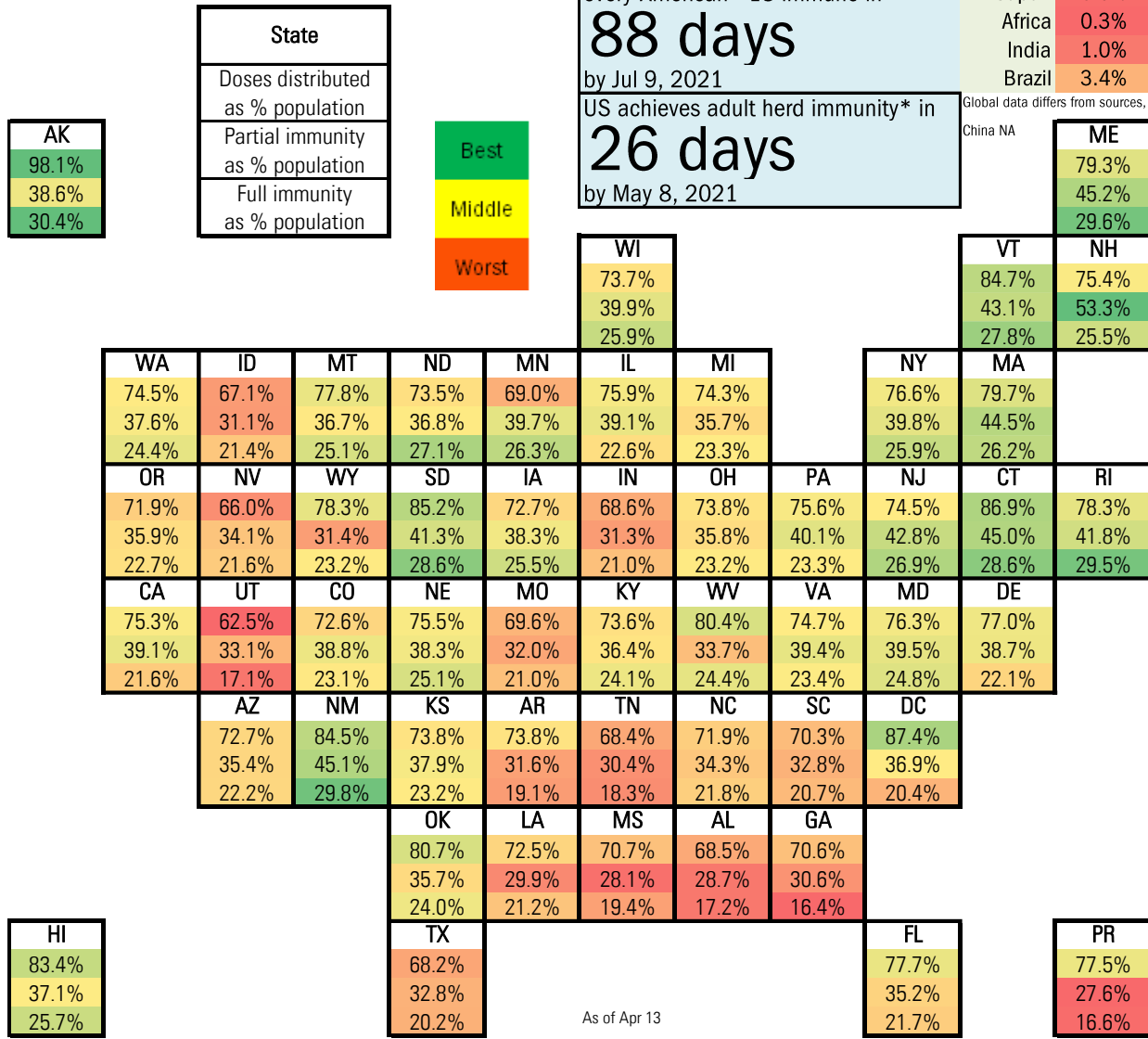
23.4% full immunity
 63.8% full immunity



At today's dosing pace,
 every American >18 immune in
88 days
 by Jul 9, 2021

US achieves adult herd immunity* in
26 days
 by May 8, 2021

Global data differs from sources, timing



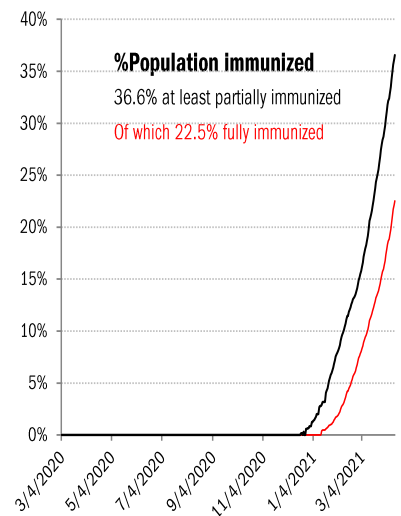
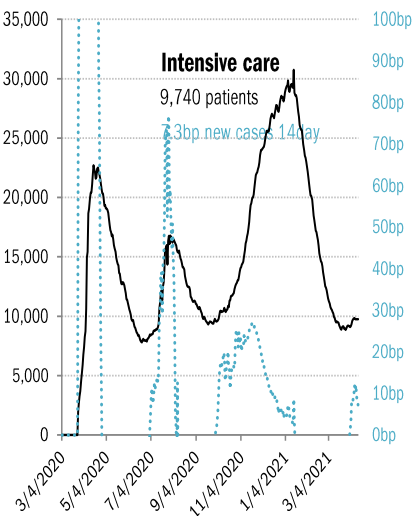
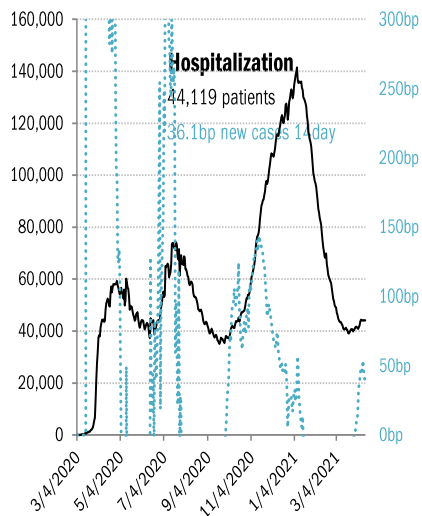
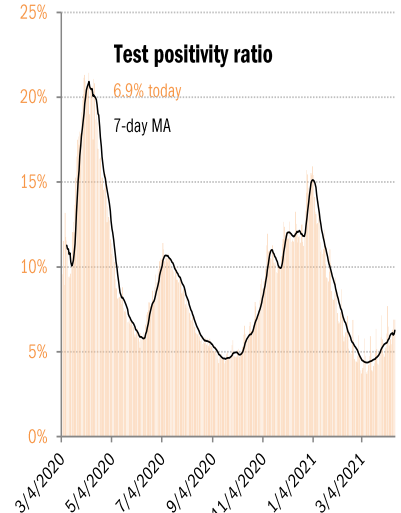
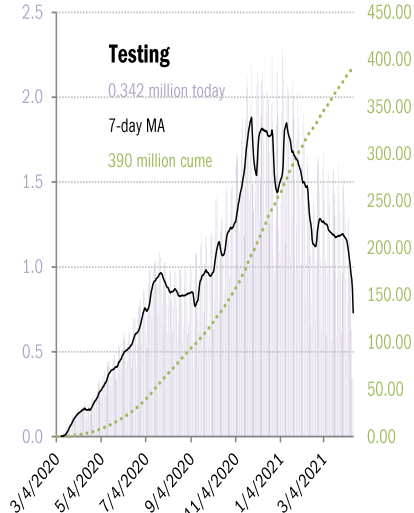
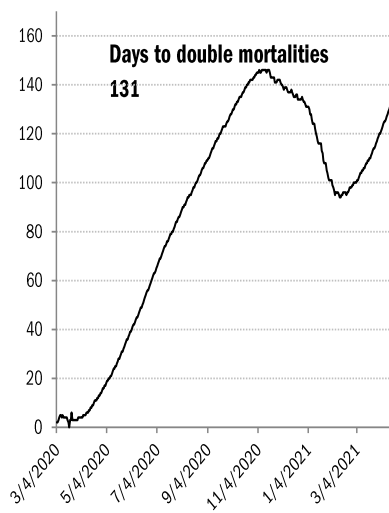
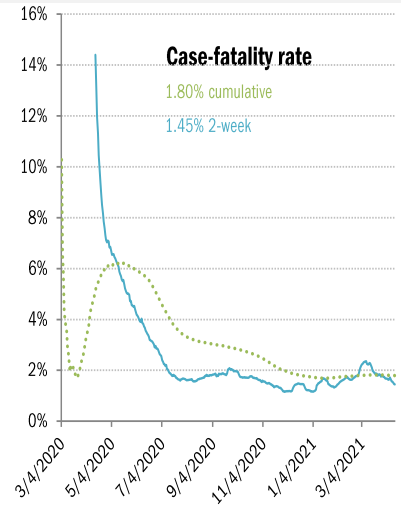
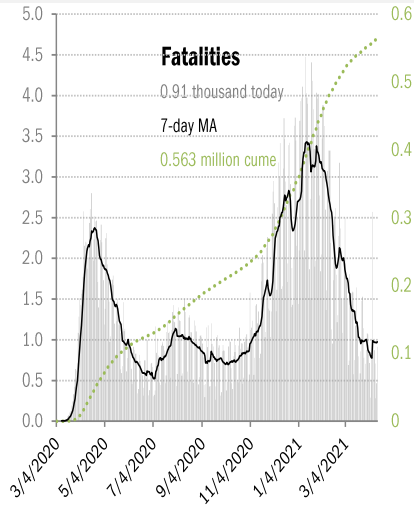
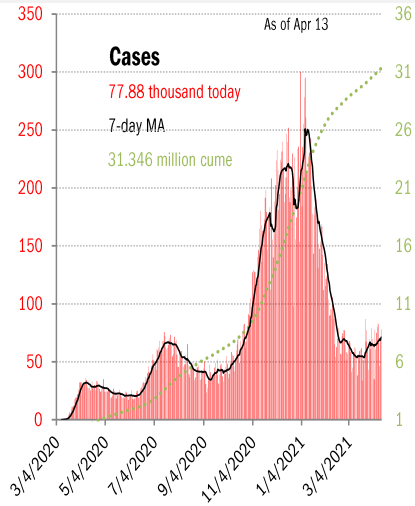
As of Apr 13

* Adult herd immunity is 60% of population over 18 years either fully vaccinated or prior tested positive, no overlap

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

US deep-dive

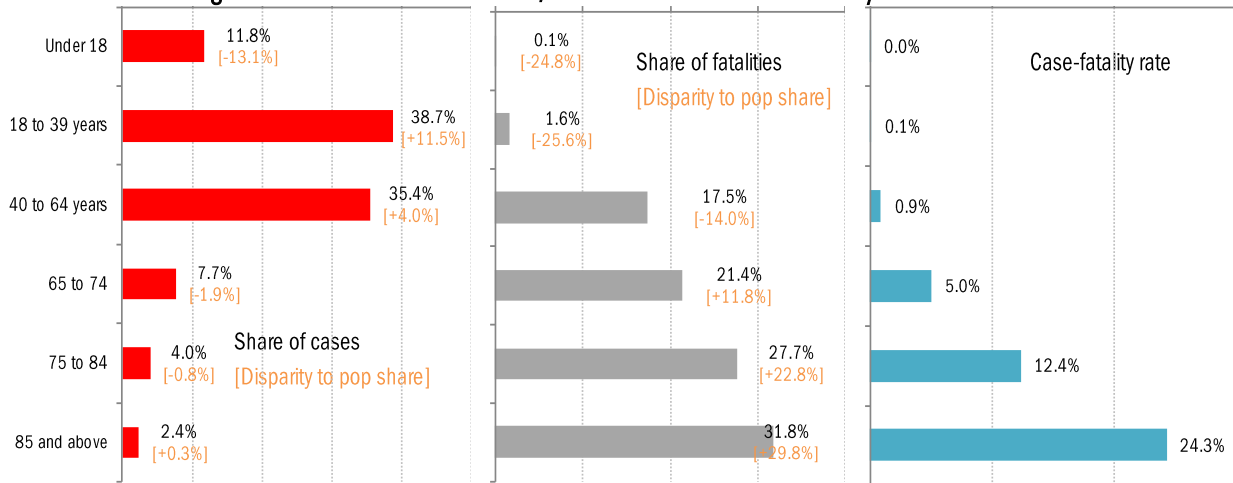
National and state-by-state data do not line up because of different sources



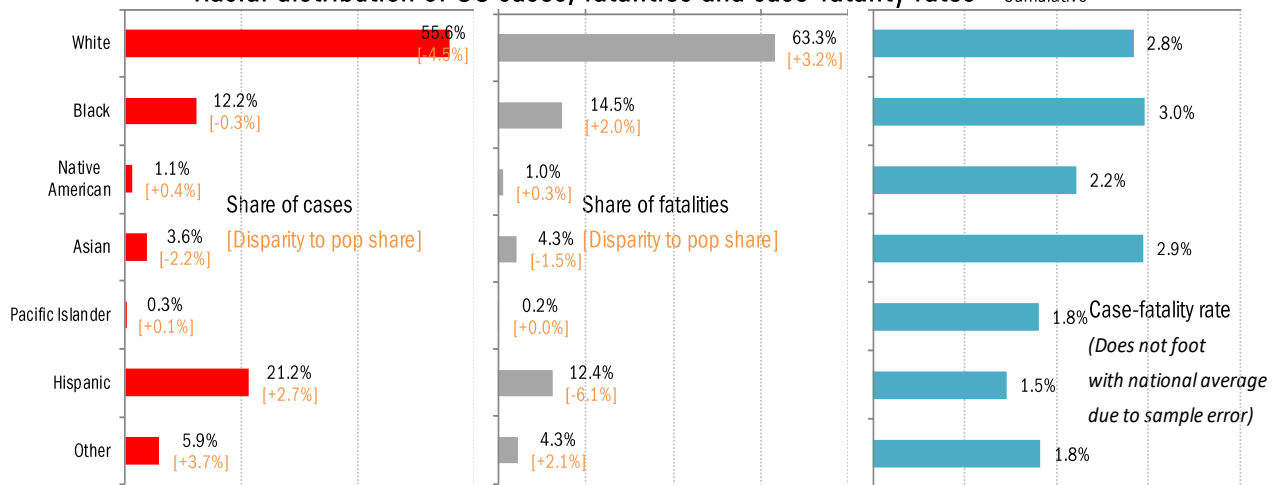
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

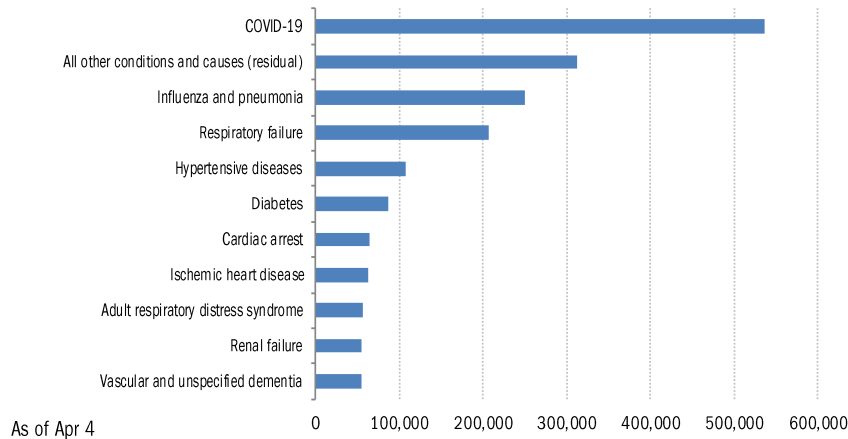


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



For 6% 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

[Masks for Children, Muzzles for Covid-19 News](#)

Jay Bhattacharya
Wall Street Journal
April 13, 2021

[U.S. Seeks to Pause J&J Covid-19 Vaccine Use After Rare Blood-Clot Cases](#)

Peter Loftus
Wall Street Journal
April 13, 2021

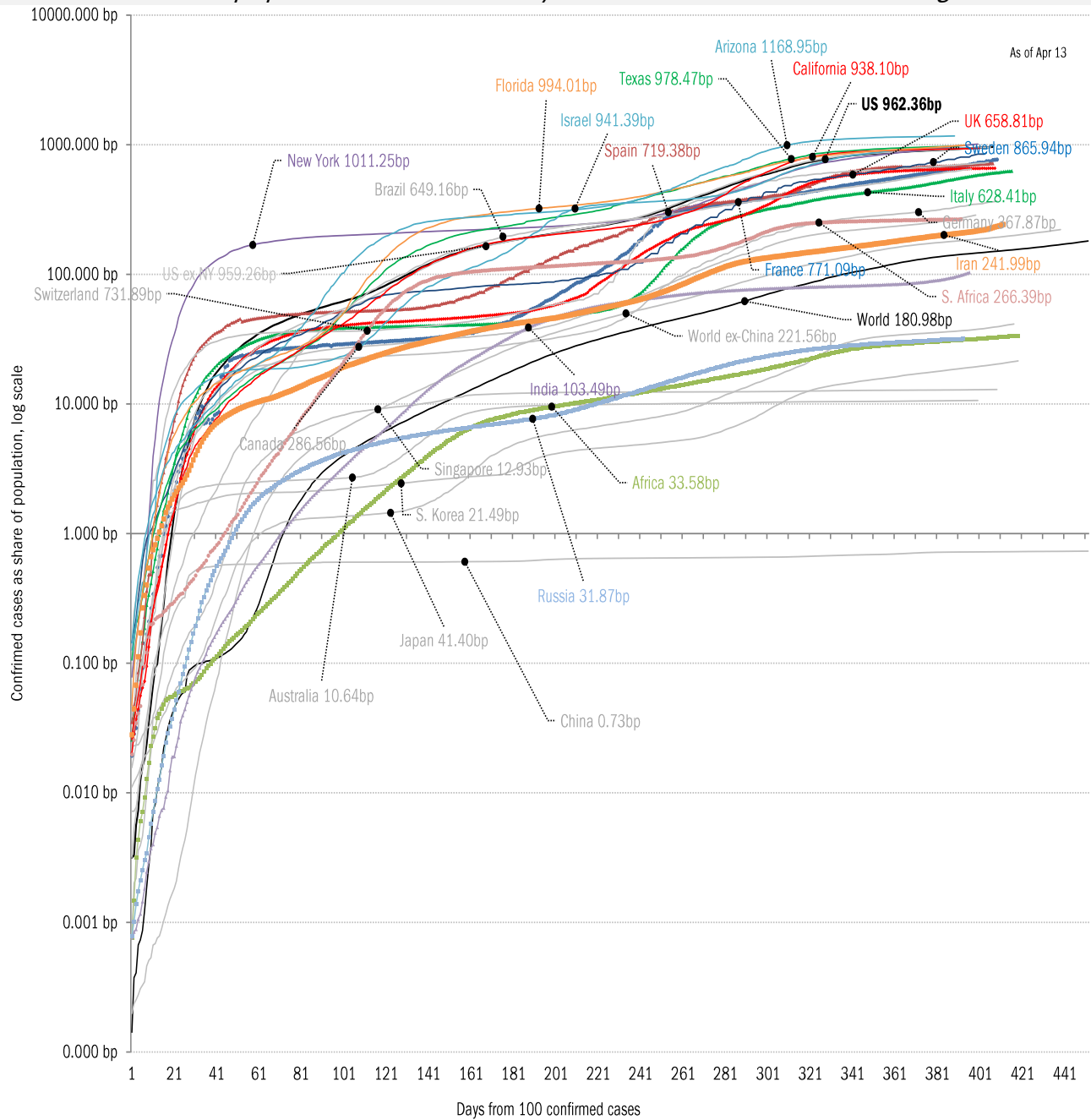
Meme of day



Pope Announces Vaccine Selfies Can Now Be Turned In To Spring A Relative Out Of Purgatory

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

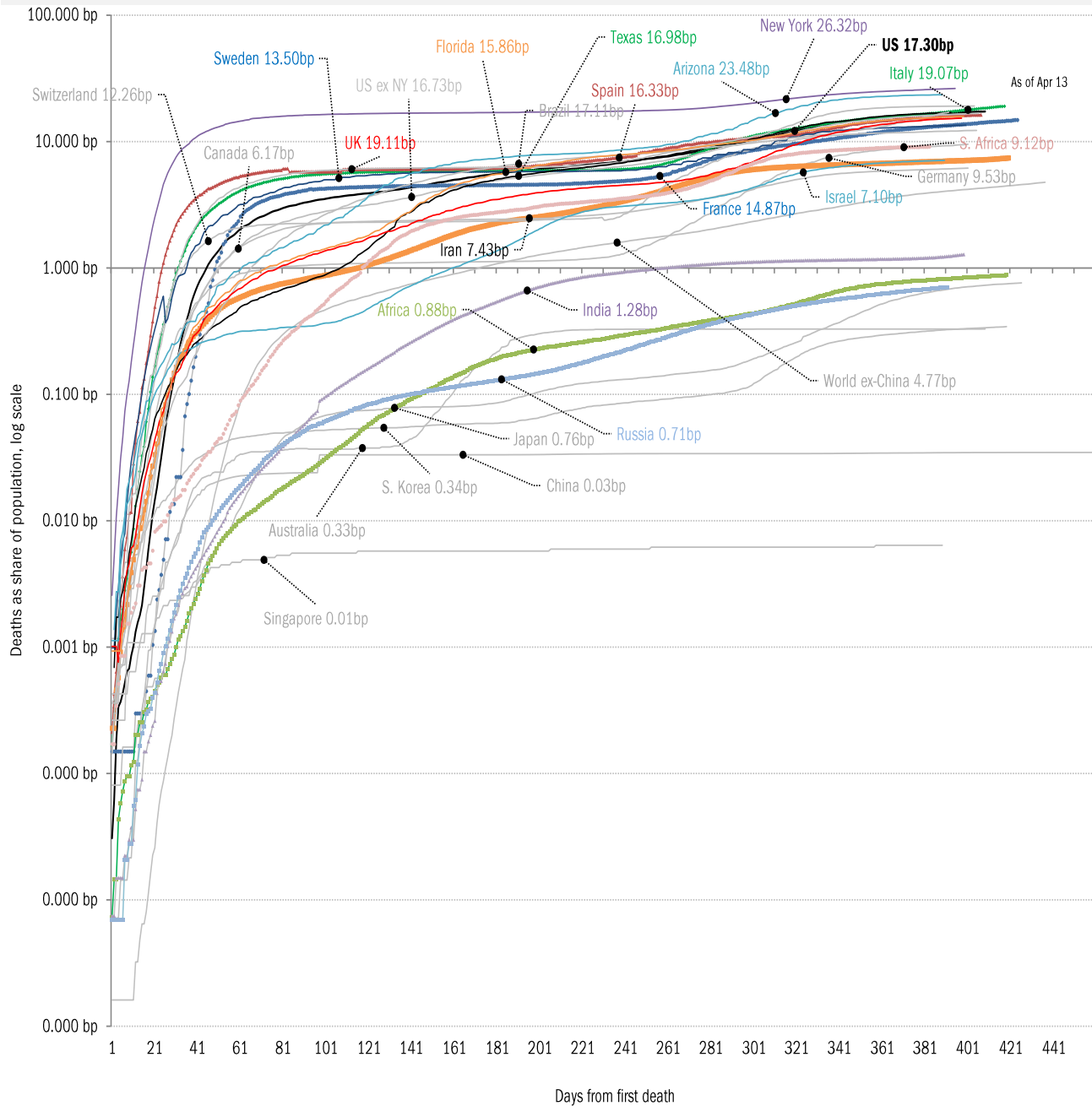
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

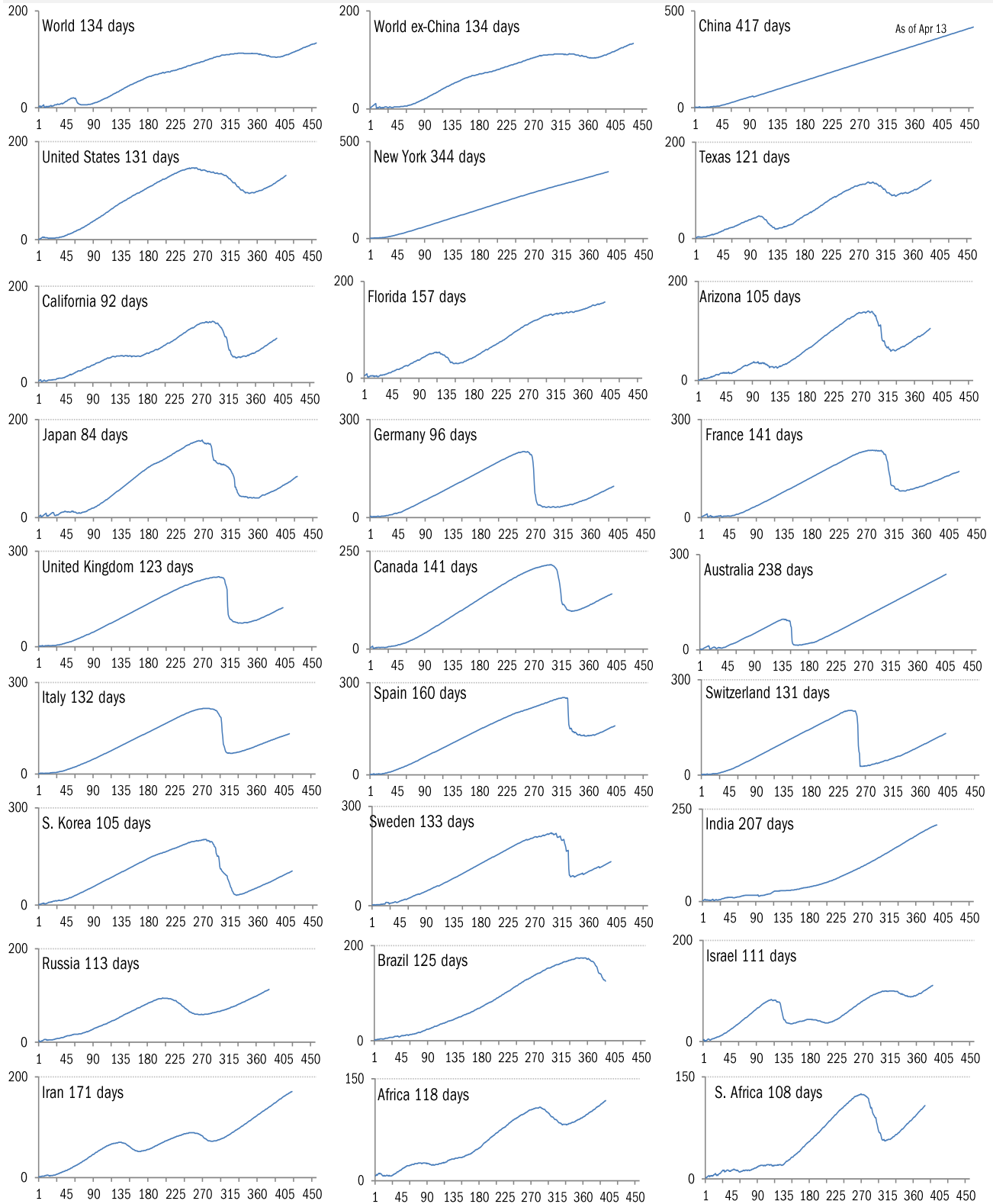


Source: [Johns Hopkins](#), TrendMacro calculations

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

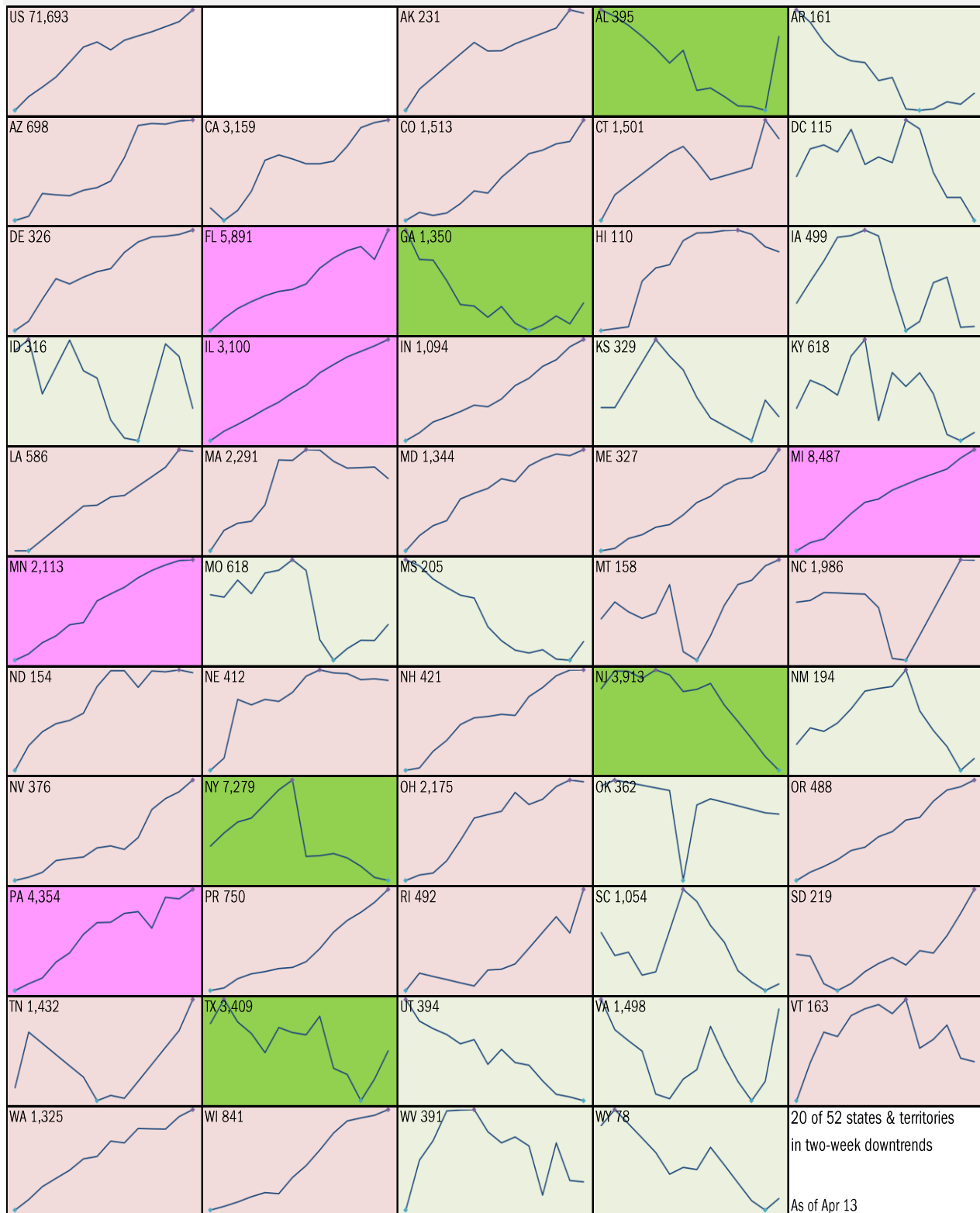
Vertical: days to double deaths Horizontal: days from first death

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

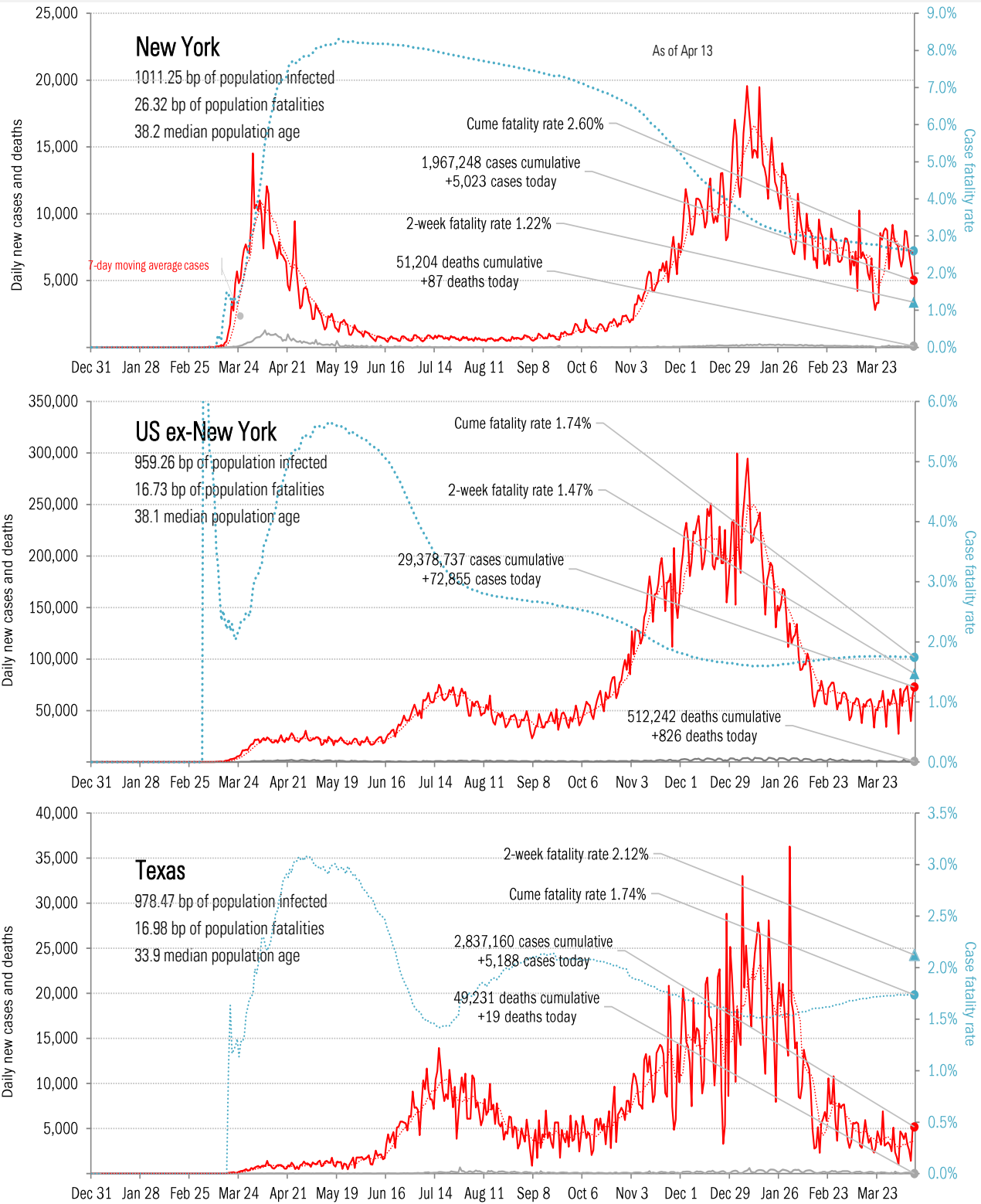
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



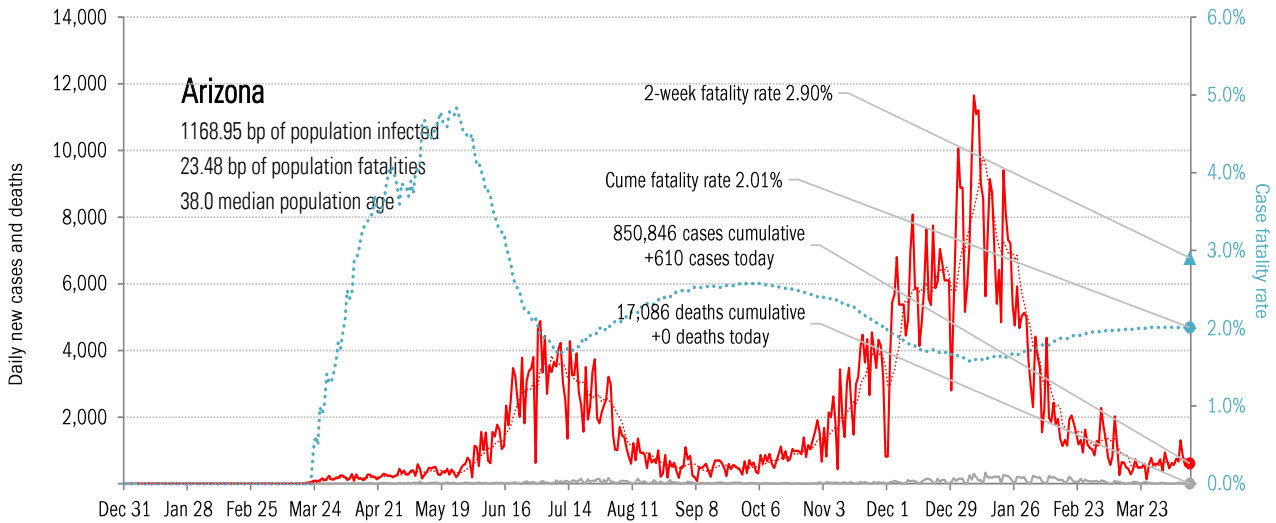
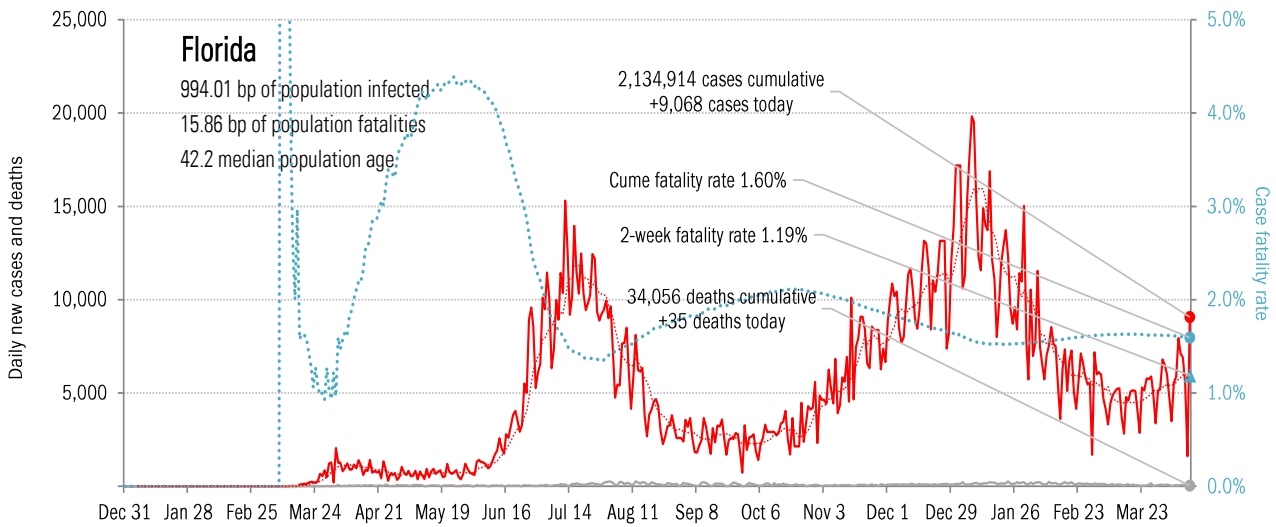
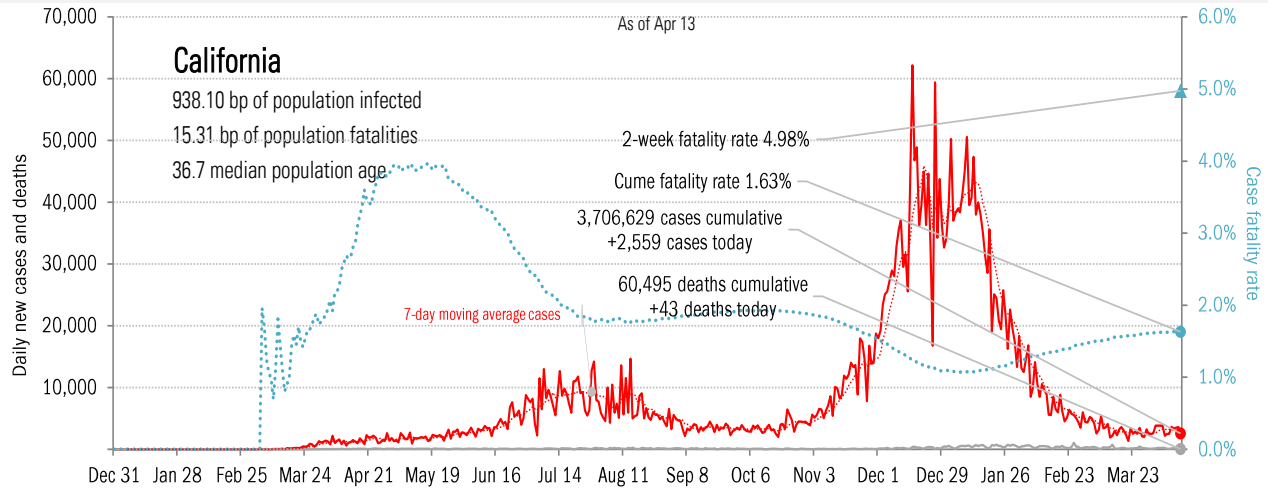
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



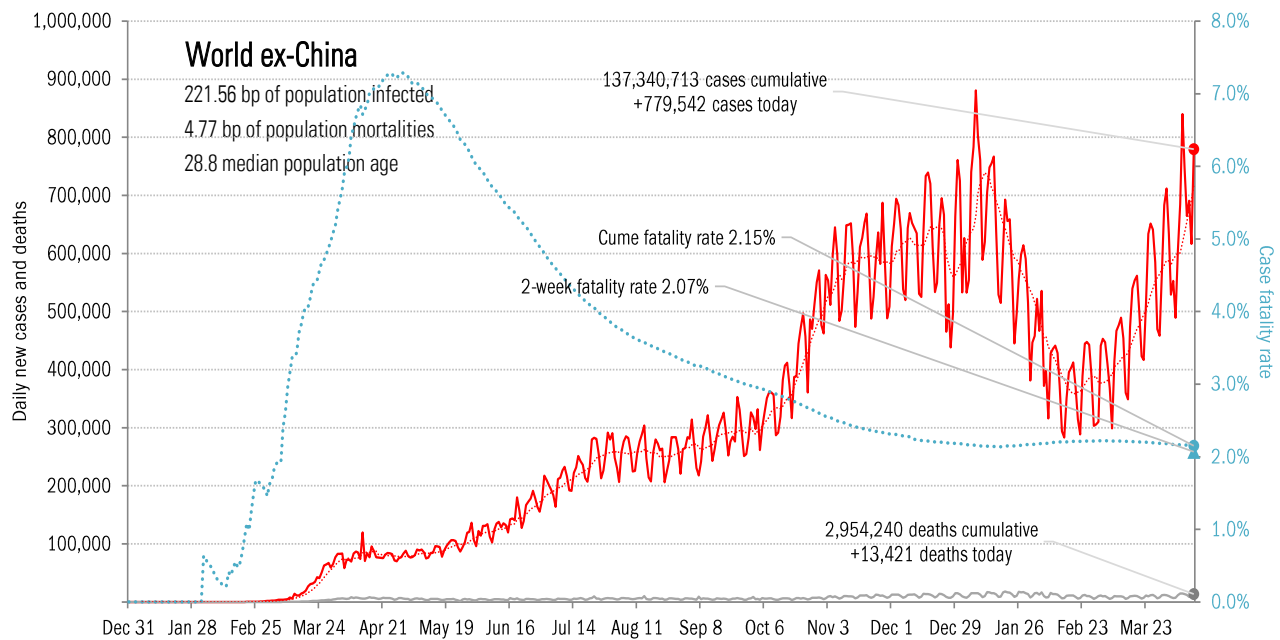
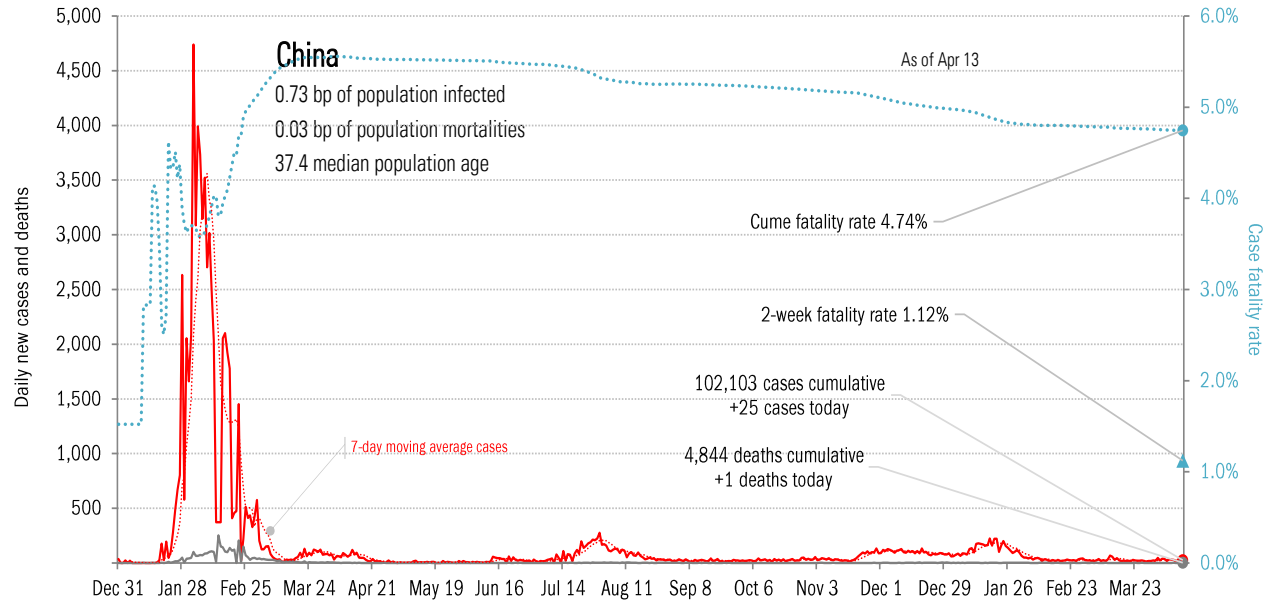
Source: [Johns Hopkins](#), TrendMacro calculations

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



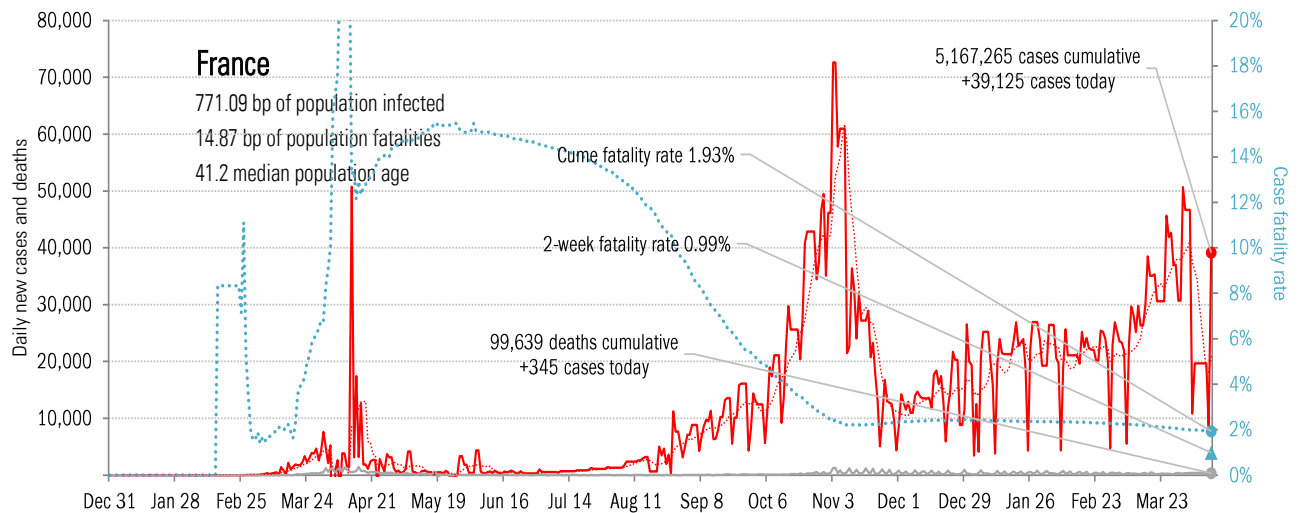
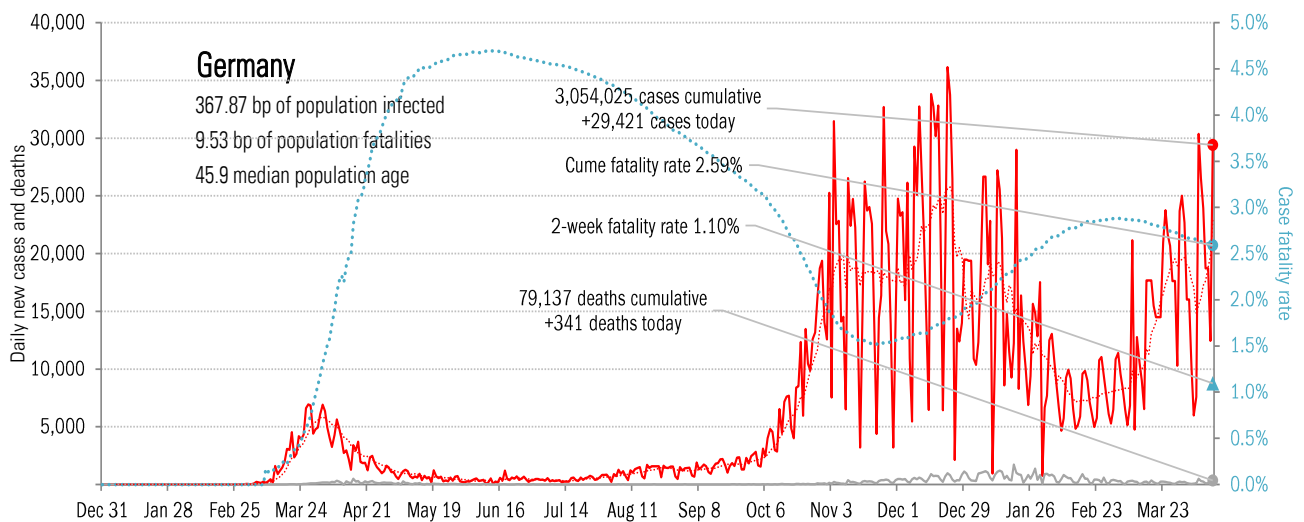
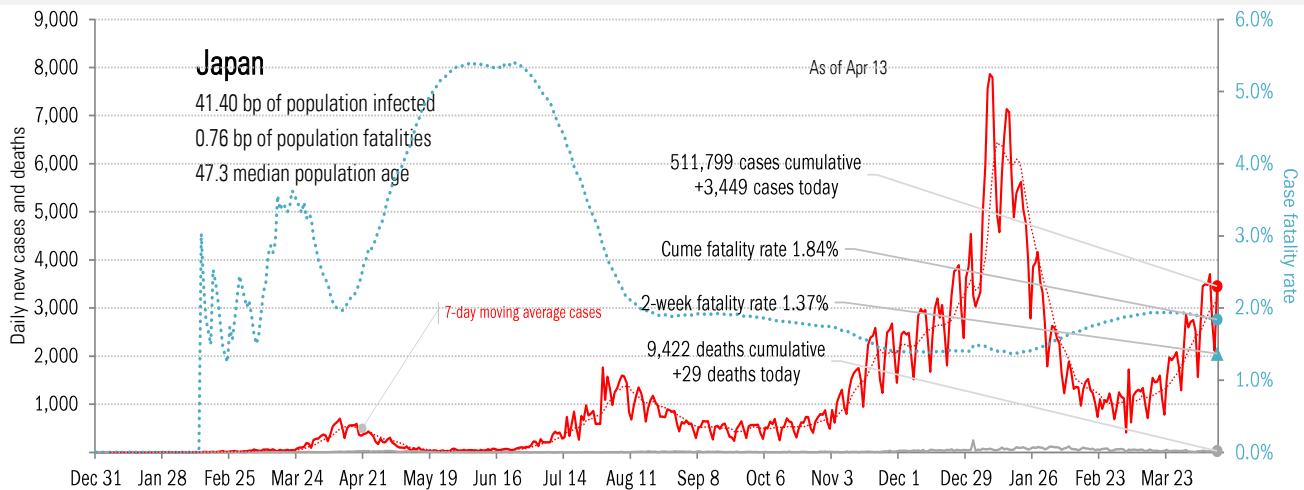
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



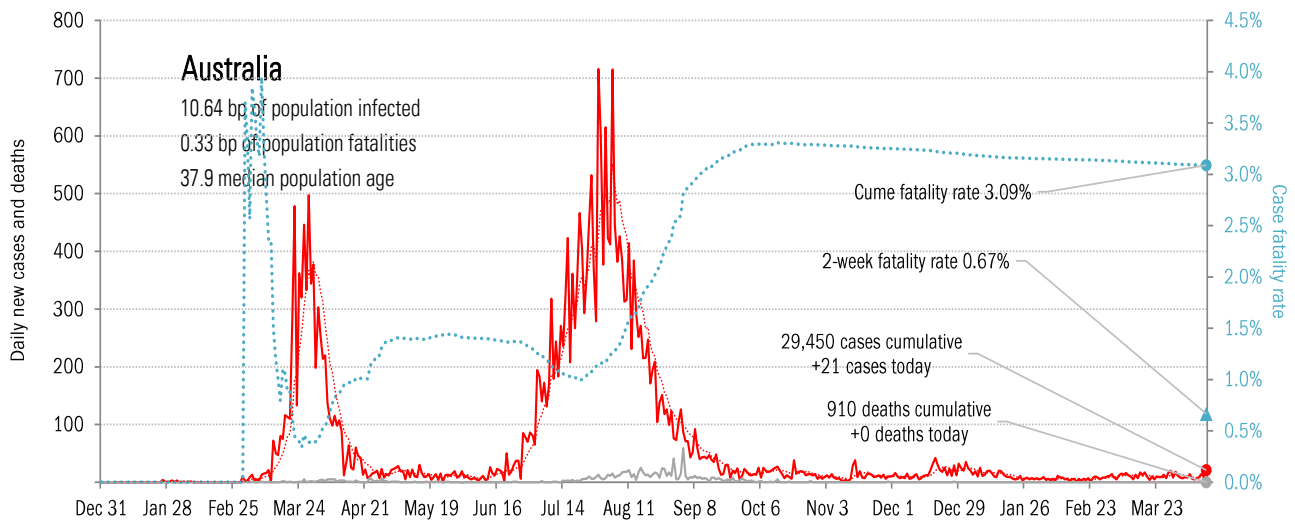
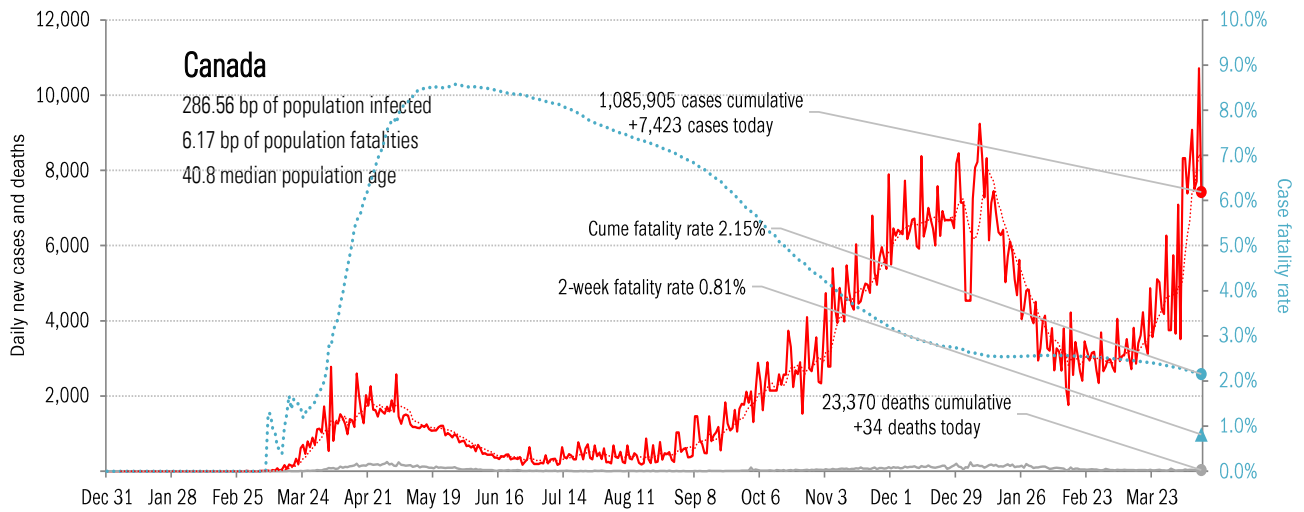
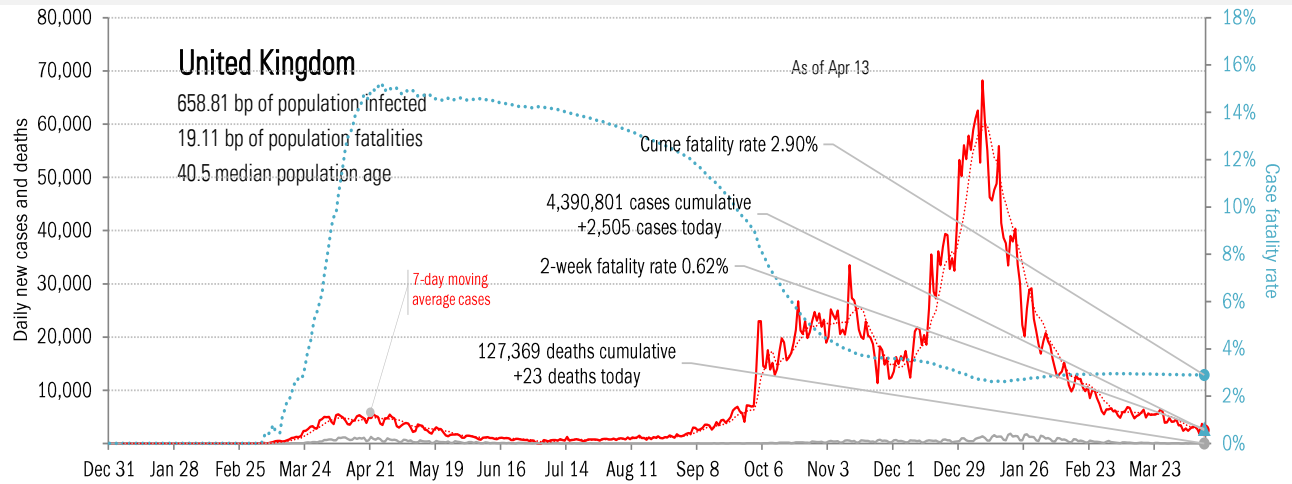
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



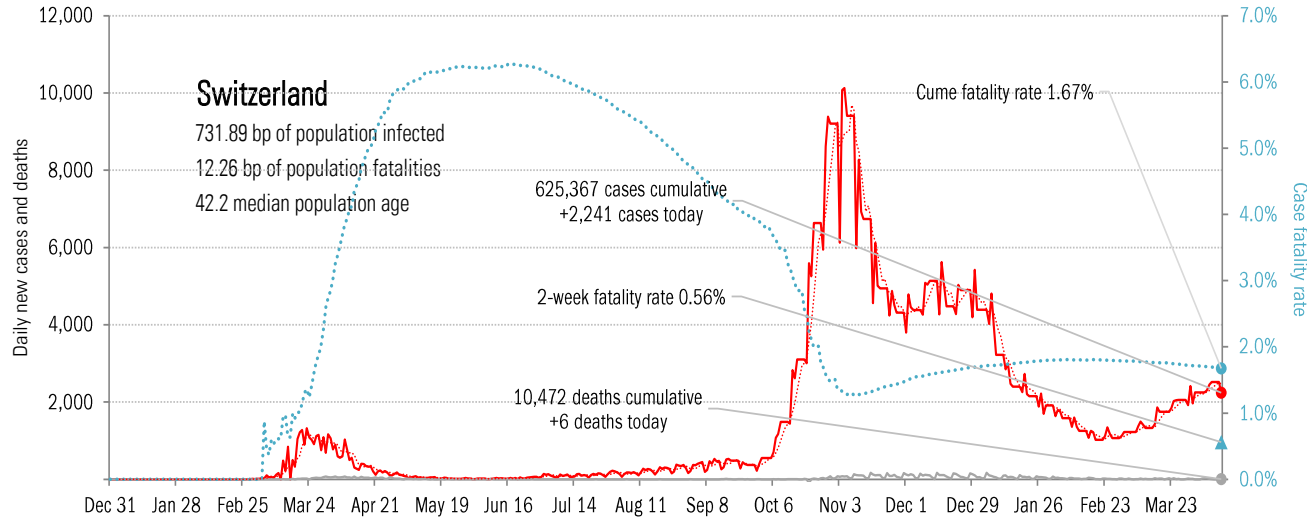
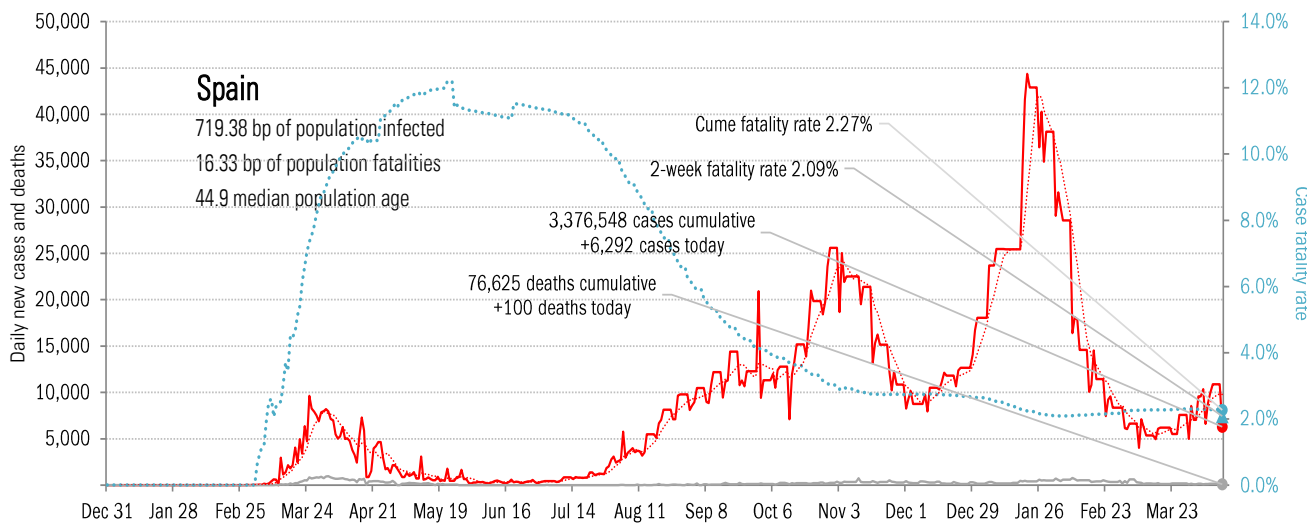
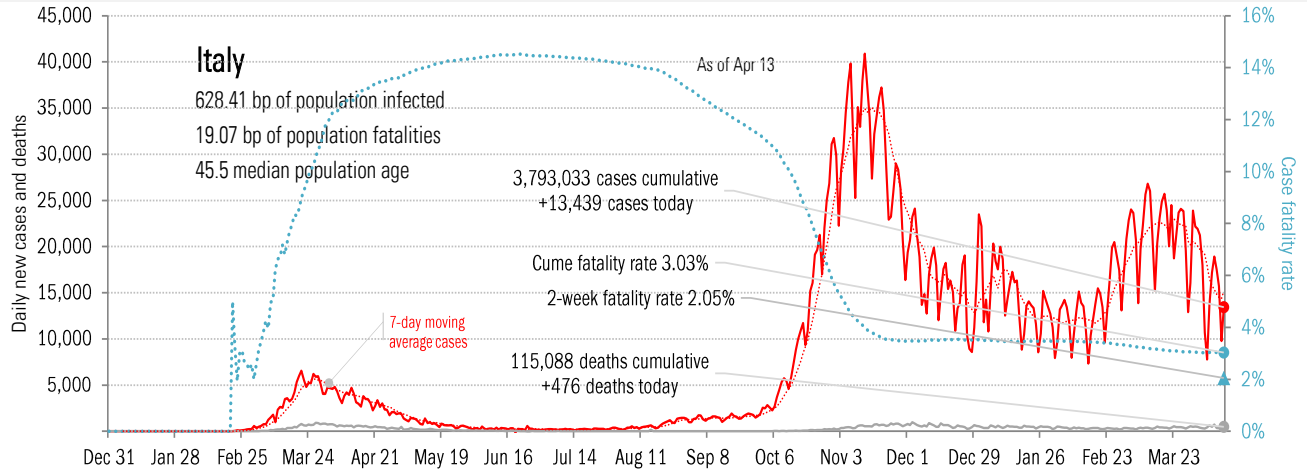
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



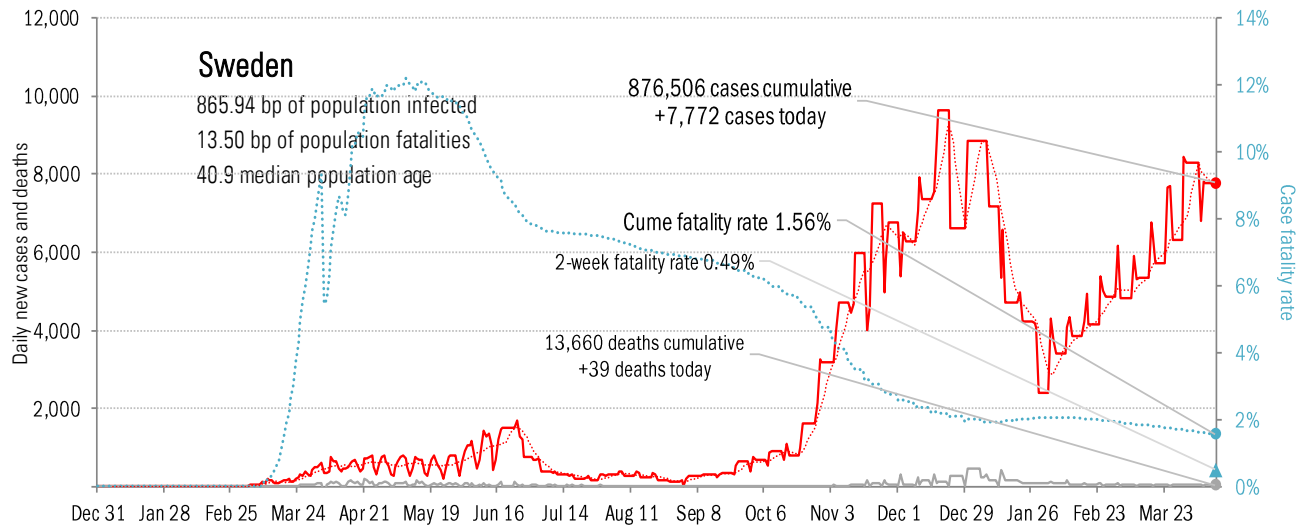
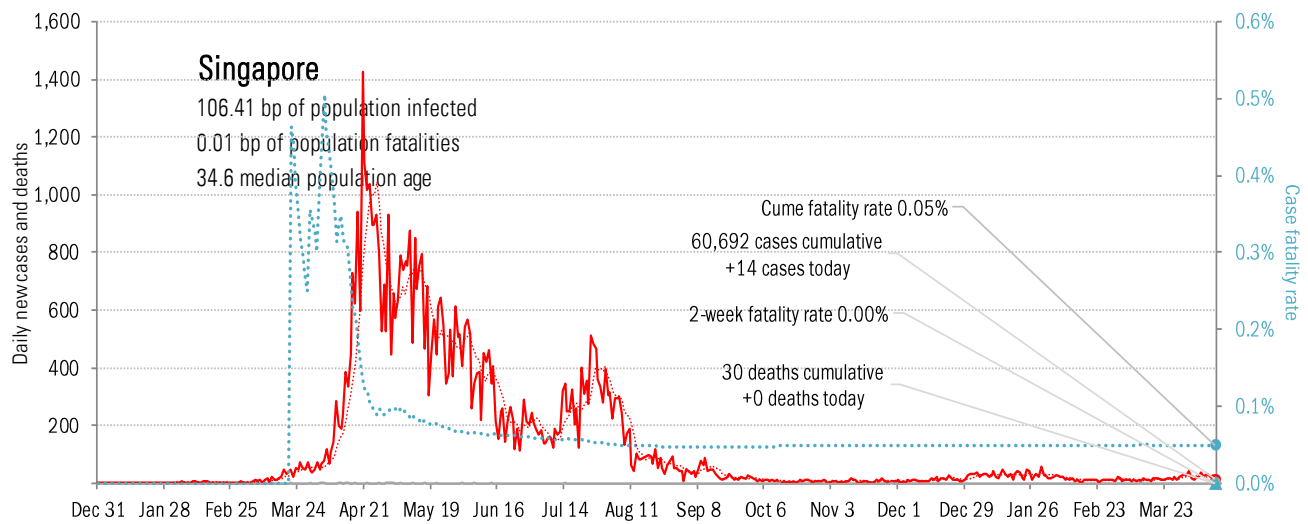
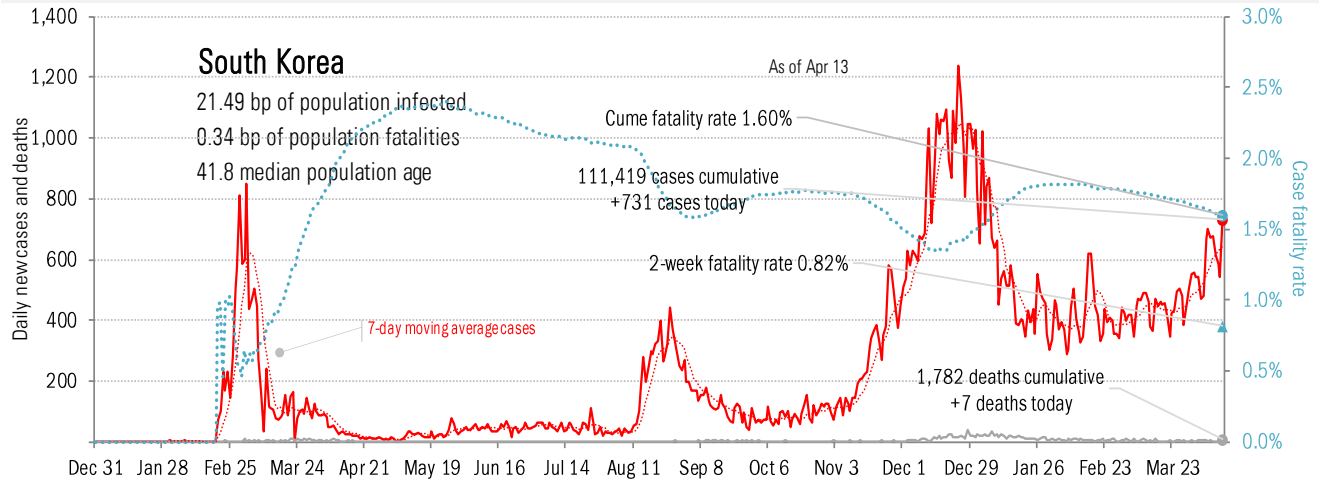
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



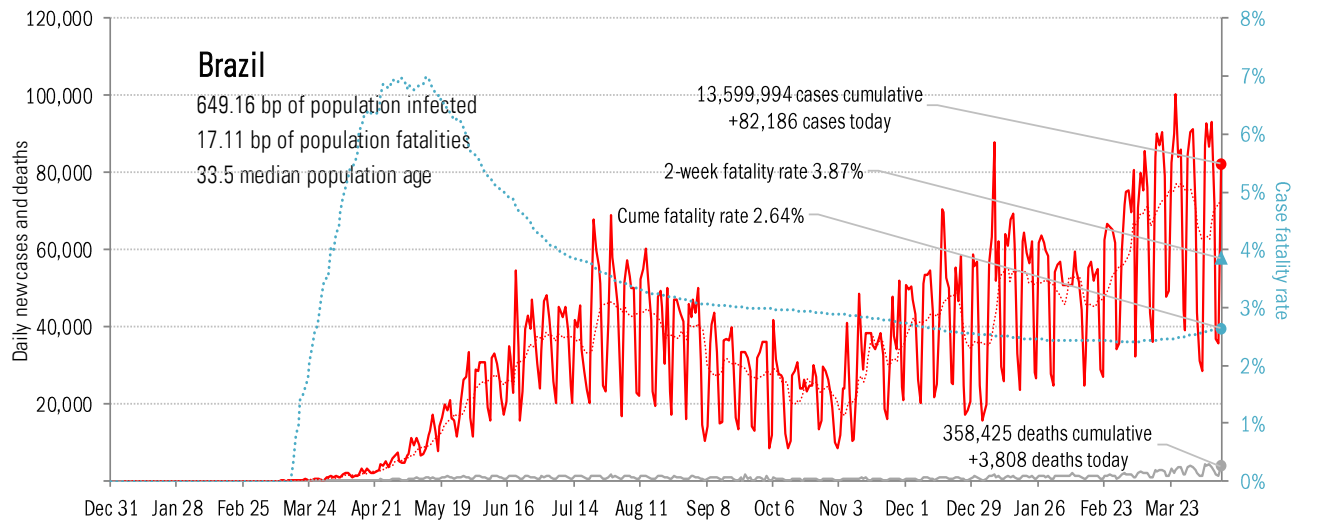
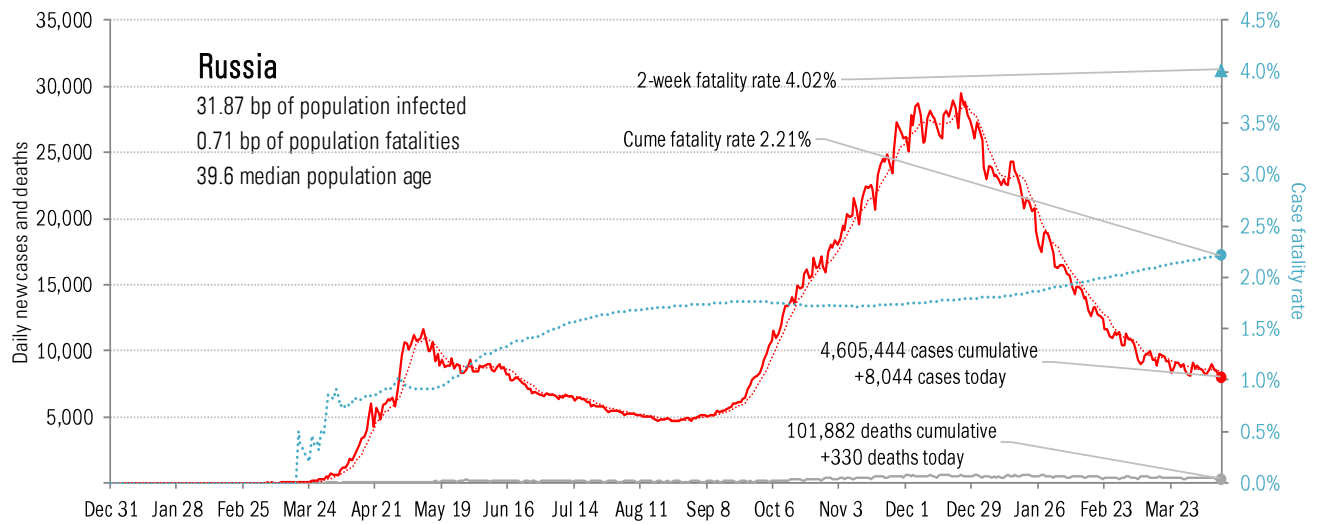
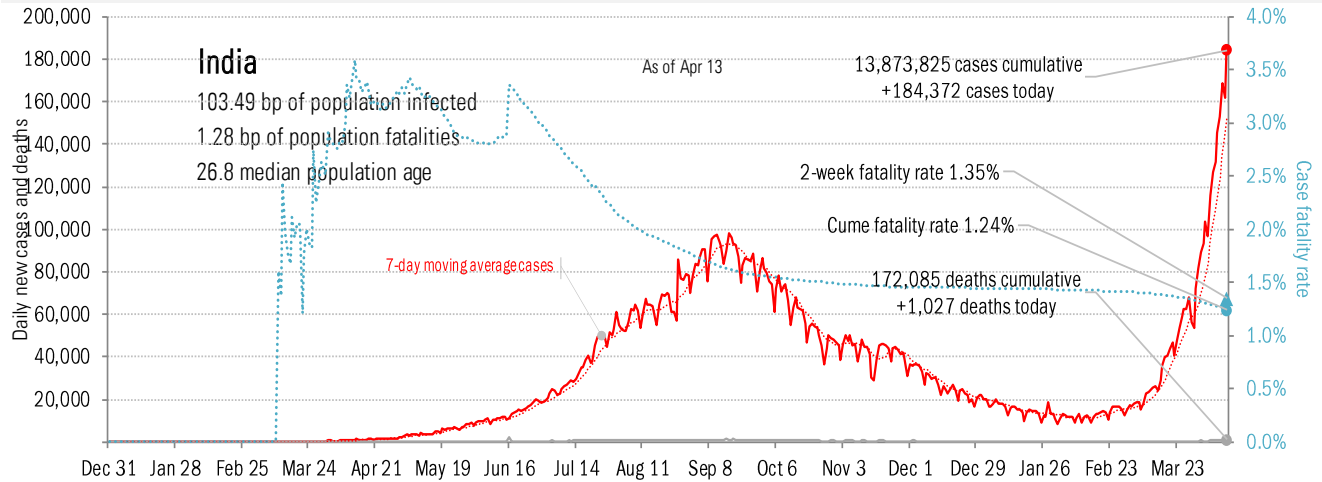
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



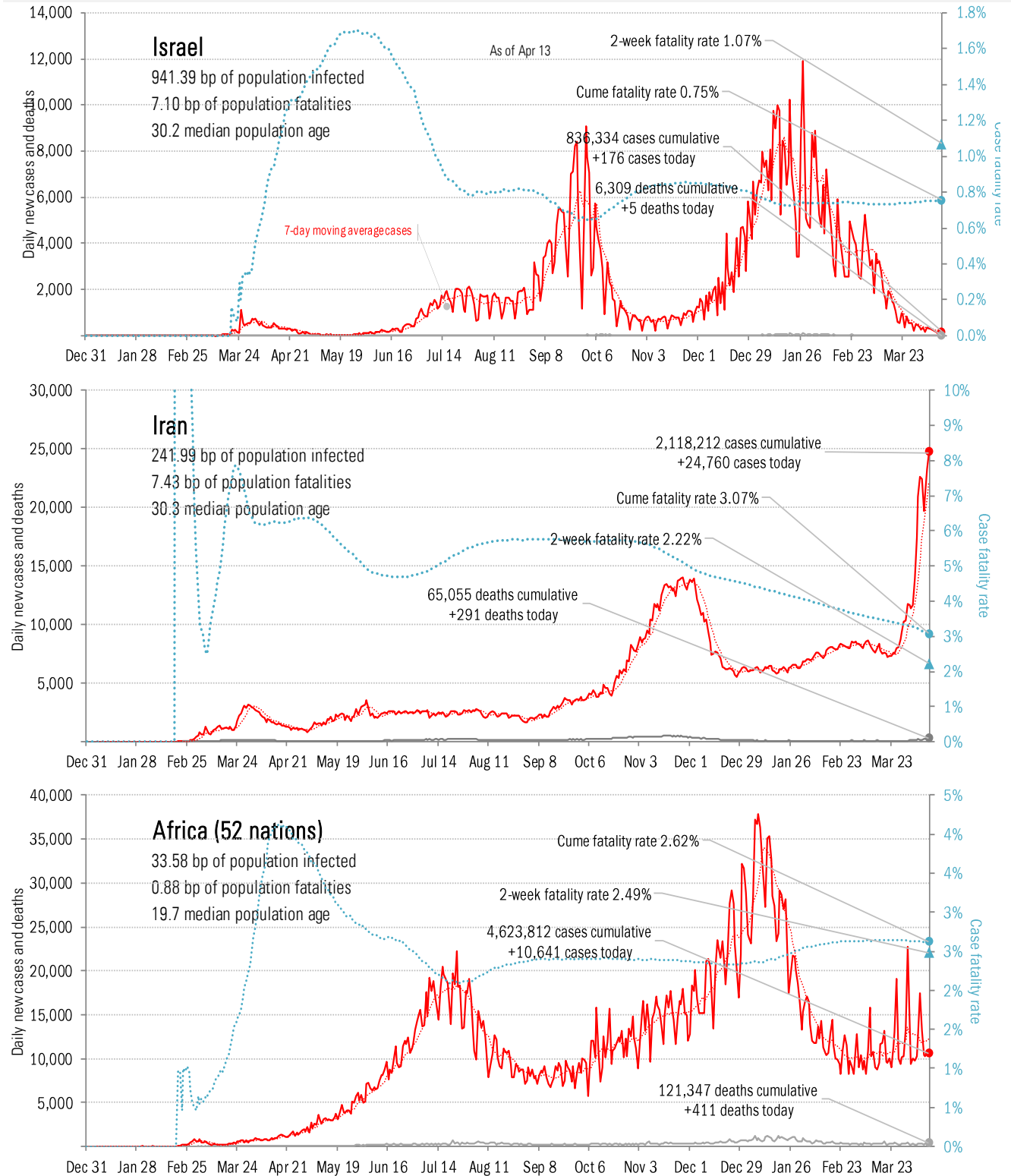
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



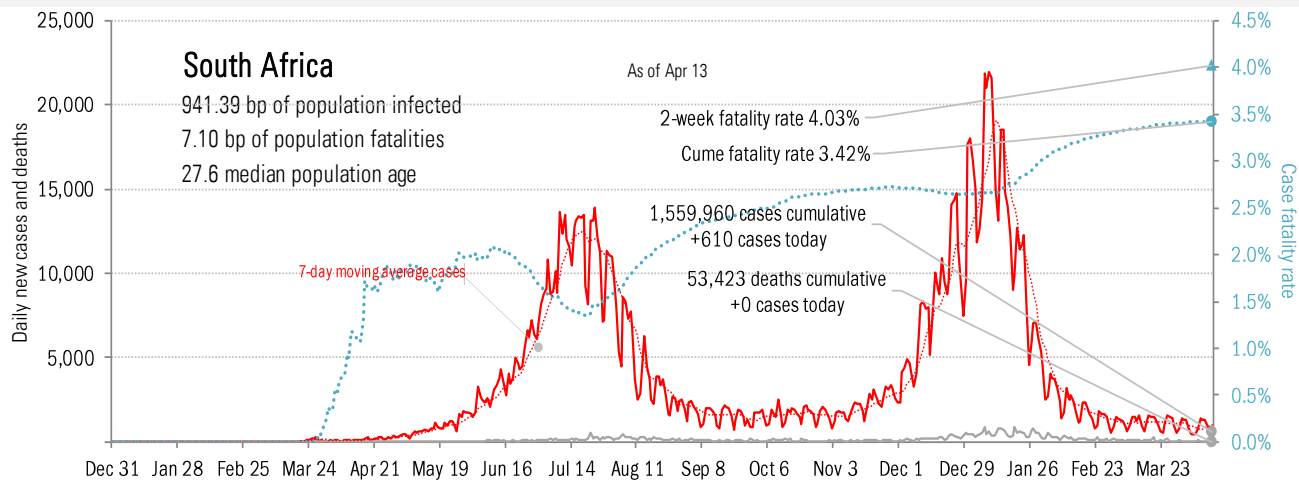
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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