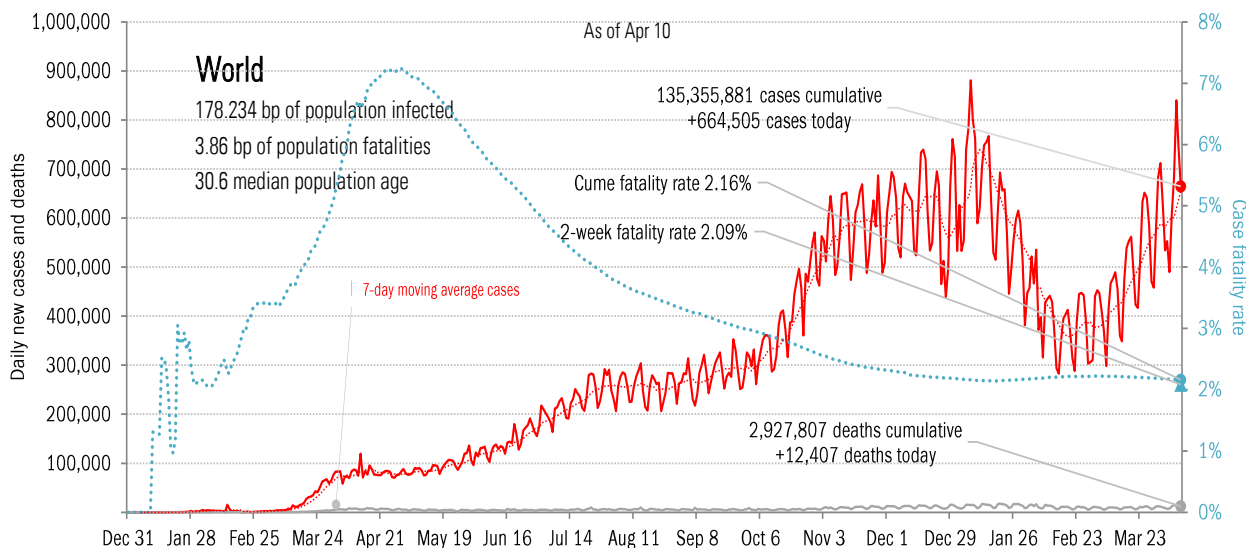
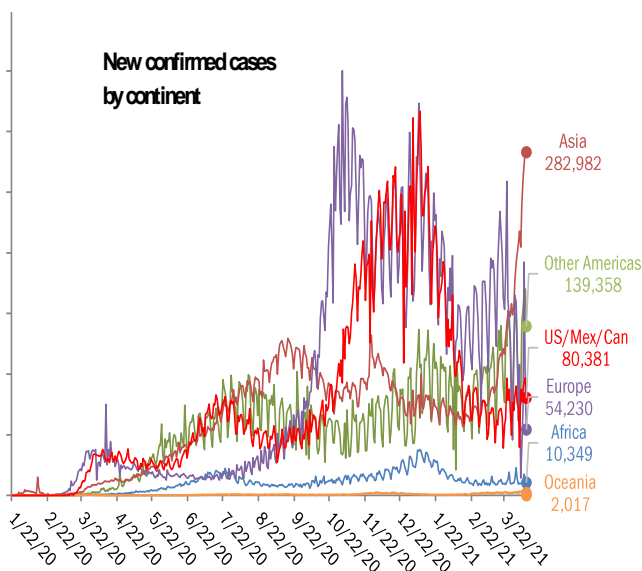


Data Insights: Covid-2019 Monitor

Sunday, April 11, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+152,879	Brazil	+2,616
Brazil	+71,832	Mexico	+2,192
United States	+66,533	India	+839
Turkey	+52,676	Poland	+749
Poland	+24,892	United States	+709
Iran	+19,666	Ukraine	+405
Argentina	+19,419	Russia	+395
Germany	+18,728	Peru	+384
Ukraine	+17,587	Italy	+344
Italy	+17,551	Colombia	+325
+461,763		+8,958	
World	+664,505	World	+12,407
Top ten	69%	Top ten	72%



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

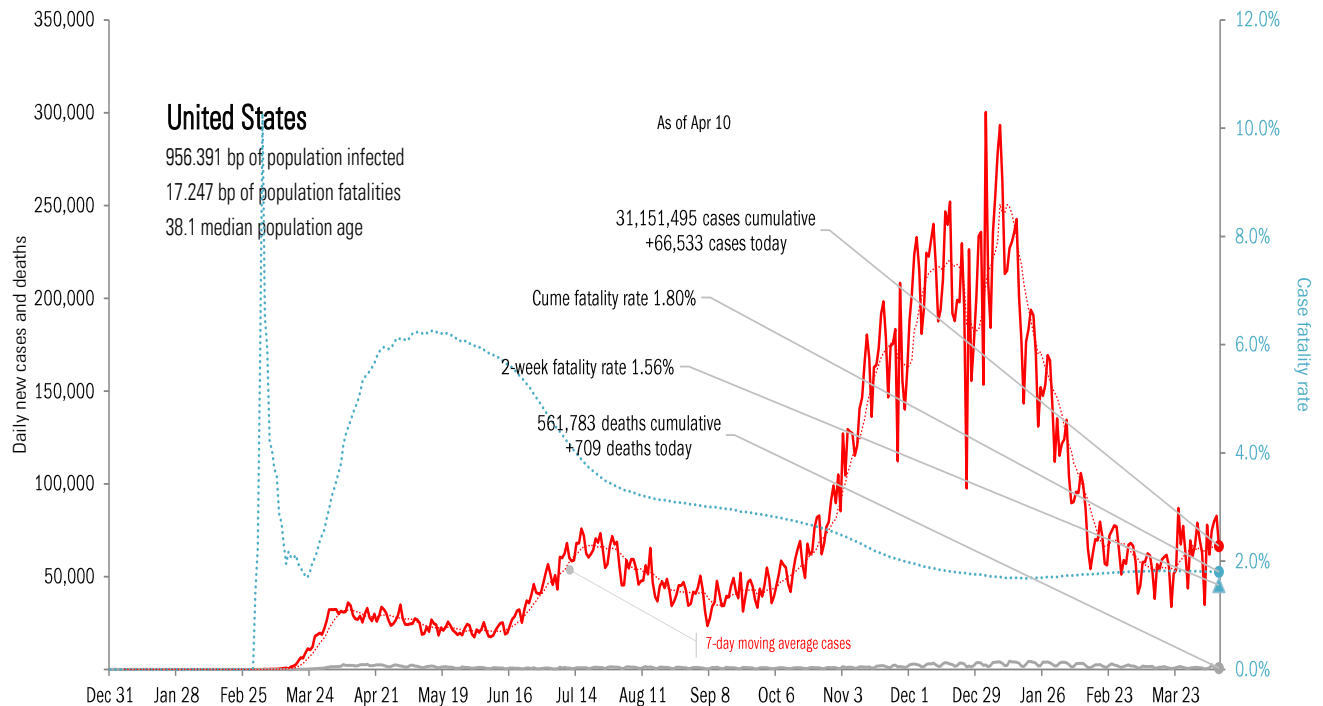
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
MI	+7,539		CA	+98		FR	+205		CA	3,696,980		CA	60,384		TX	230,397		R	90%	MI	29%
NY	+7,495		MI	+84		MI	+124		TX	2,825,551		NY	51,036		CA	225,627		MA	84%	MD	25%
FL	+6,906		TX	+67		GA	+108		FL	2,118,713		TX	49,188		FL	157,459		MD	83%	RI	20%
PA	+4,023		GA	+64		IL	+54		NY	1,949,964		FL	34,014		NY	120,811		PA	81%	NY	18%
IL	+3,639		NY	+59		FL	+38		IL	1,276,724		PA	25,390		GA	96,993		MO	81%	DC	18%
NJ	+3,599		FL	+46		NJ	+30		GA	1,072,700		NJ	24,859		CH	77,697		MI	80%	PA	16%
CA	+3,306		NJ	+33		ND	+25		PA	1,070,730		IL	23,777		PA	77,625		CT	80%	MN	16%
TX	+2,662		PA	+32		MN	+24		CH	1,037,600		GA	19,488		IL	70,990		MN	79%	NJ	14%
MN	+2,449		AZ	+30		WA	+21		NJ	950,103		CH	18,827		KY	69,597		FL	78%	TX	14%
MA	+2,300		AL	+26		CO	+18		NC	929,406		MI	17,563		AZ	59,058		WV	78%	WV	13%
+43,918			+539			+647			16,928,471			324,526			1,186,254						
All states	+66,533		+709			+776			All states	31,151,495		561,783			2,115,580			All states	70%	67%	
Top ten	66%		76%			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	-2,509	CH	-86	MI	-93	PA	+206 bp
CT	-1,807	CA	-59	MD	-69	ME	+124 bp
MI	-1,295	TX	-37	KY	-68	VT	+114 bp
NY	-1,167	MT	-25	CT	-27	ND	+100 bp
TN	-1,120	NC	-24	IN	-26	WI	+97 bp



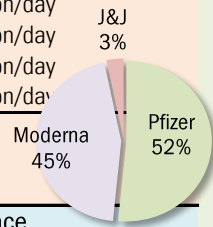
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

US overall	Over last day	Immunity	Full	Partial
248.06 million doses distributed	+4.20 million/day	US	21.1%	35.0%
190.55 million doses administered	+4.74 million/day	UK	10.3%	47.2%
120.94 million persons partially immunized	+2.75 million/day	France	5.3%	15.5%
73.45 million persons fully immunized	+2.55 million/day	Spain	6.6%	15.3%
7.76 million shots long-term care residents/staff	+0.00 million/day	Germany	5.9%	15.1%
		Italy	6.4%	14.8%
		Australia	0.8%	0.6%
		Israel	56.9%	61.4%
		Canada	2.1%	18.6%
		Japan	0.4%	0.9%
		Africa	0.3%	0.7%
		India	0.9%	6.4%
		Brazil	2.8%	9.7%

76.8% of distributed doses administered
 36.2% of US pop partial
 100% of LTC partial

22.0% full immunity
 63.8% full immunity



At today's dosing pace,
 every American >18 immune in
51 days
 by May 30, 2021

US achieves adult herd immunity* in
18 days
 by Apr 28, 2021

Global data differs from sources, timing

AK
96.5%
36.7%
26.6%

State
Doses distributed as % population
Partial immunity as % population
Full immunity as % population



ME
77.1%
42.7%
27.4%

WI	VT	NH
68.7%	82.7%	73.8%
38.3%	40.5%	48.7%
24.2%	25.4%	23.1%

WA	ID	MT	ND	MN	IL	MI	NY	MA
72.4%	65.2%	77.3%	71.8%	67.0%	73.2%	70.3%	74.3%	77.4%
35.7%	30.1%	35.8%	36.3%	37.2%	37.3%	34.2%	37.9%	42.0%
22.8%	20.3%	23.9%	26.0%	24.1%	20.8%	21.8%	24.1%	24.5%

OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
69.4%	65.4%	77.8%	83.7%	71.0%	63.7%	71.2%	74.5%	71.6%	83.9%	75.8%
34.1%	32.7%	29.3%	40.4%	36.7%	30.0%	34.7%	38.5%	40.7%	42.6%	39.0%
21.3%	20.3%	20.8%	27.5%	23.9%	20.2%	21.6%	21.7%	25.2%	26.5%	27.1%

CA	UT	CO	NE	MO	KY	WV	VA	MD	DE
73.5%	61.0%	71.0%	72.2%	69.2%	70.1%	77.3%	69.9%	74.0%	74.9%
37.5%	31.8%	36.5%	36.2%	30.5%	35.7%	33.4%	37.9%	37.8%	37.3%
20.5%	16.1%	21.7%	22.7%	19.6%	23.0%	23.8%	22.0%	23.1%	20.6%

AZ	NM	KS	AR	TN	NC	SC	DC
70.9%	81.6%	73.5%	70.9%	67.9%	71.3%	67.9%	86.5%
34.3%	43.9%	36.8%	30.8%	29.5%	33.1%	31.8%	34.7%
21.2%	28.8%	21.8%	18.3%	17.5%	20.6%	19.4%	18.5%

OK	LA	MS	AL	GA
78.9%	70.5%	69.7%	66.9%	67.8%
35.0%	29.3%	27.5%	28.0%	28.8%
22.8%	20.3%	18.7%	16.5%	15.0%

HI	TX	FL	PR
80.5%	66.6%	73.9%	76.0%
35.5%	31.5%	33.5%	25.9%
23.7%	19.0%	20.4%	15.3%

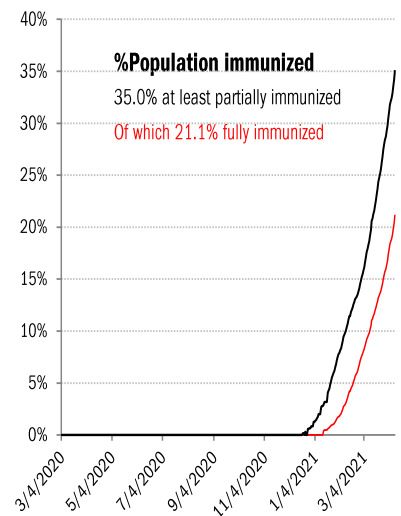
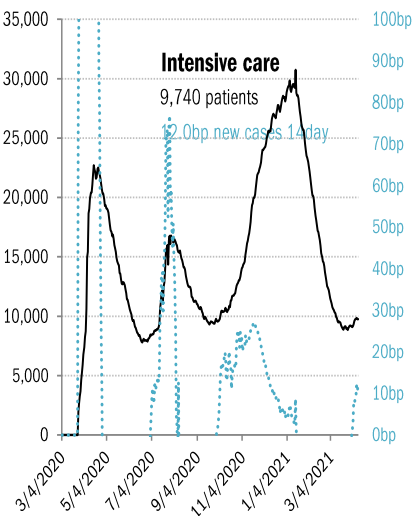
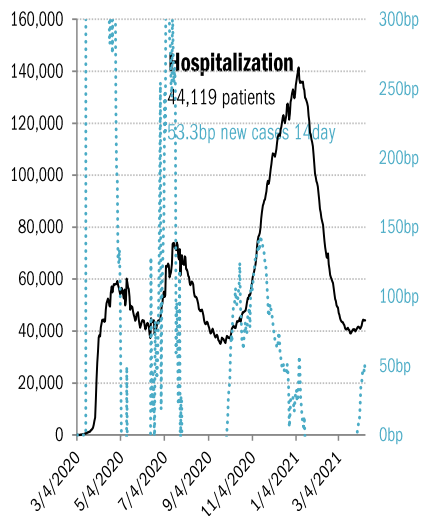
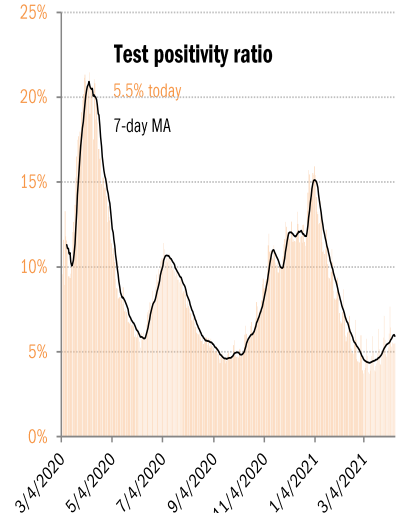
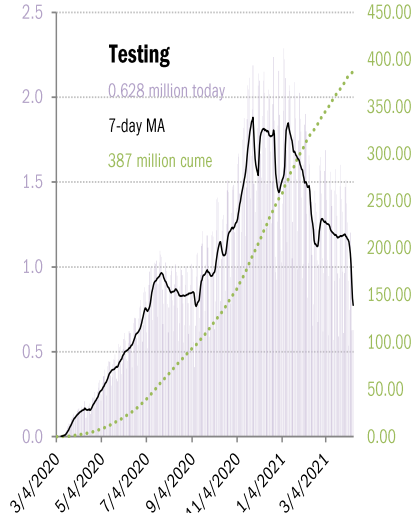
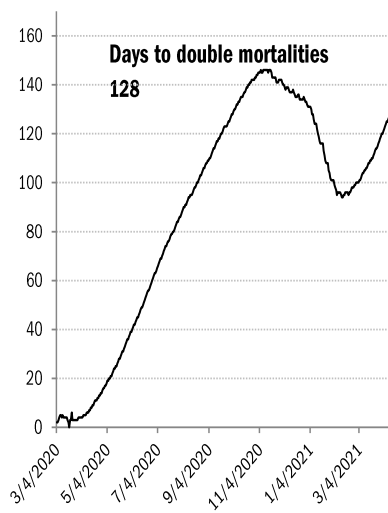
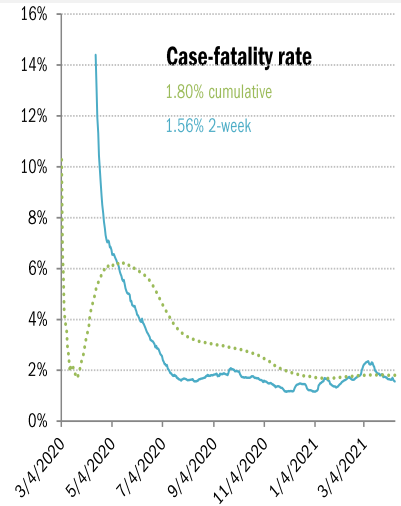
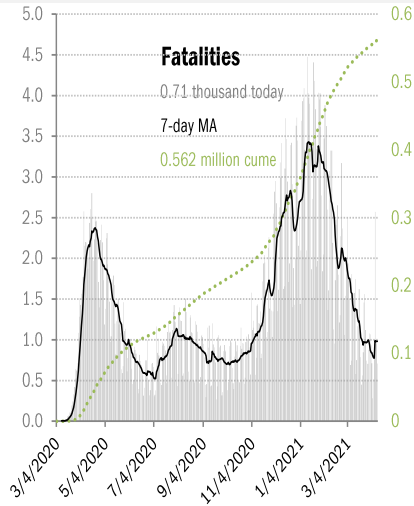
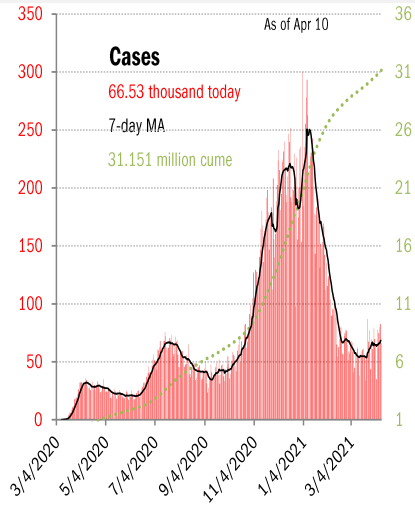
As of Apr 10

* 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

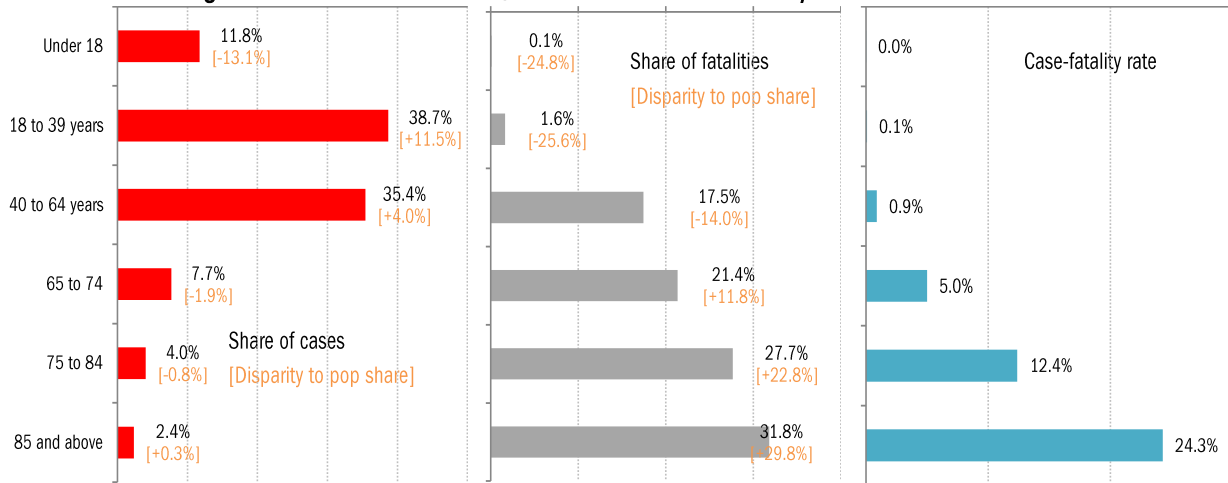
National and state-by-state data do not line up because of different sources



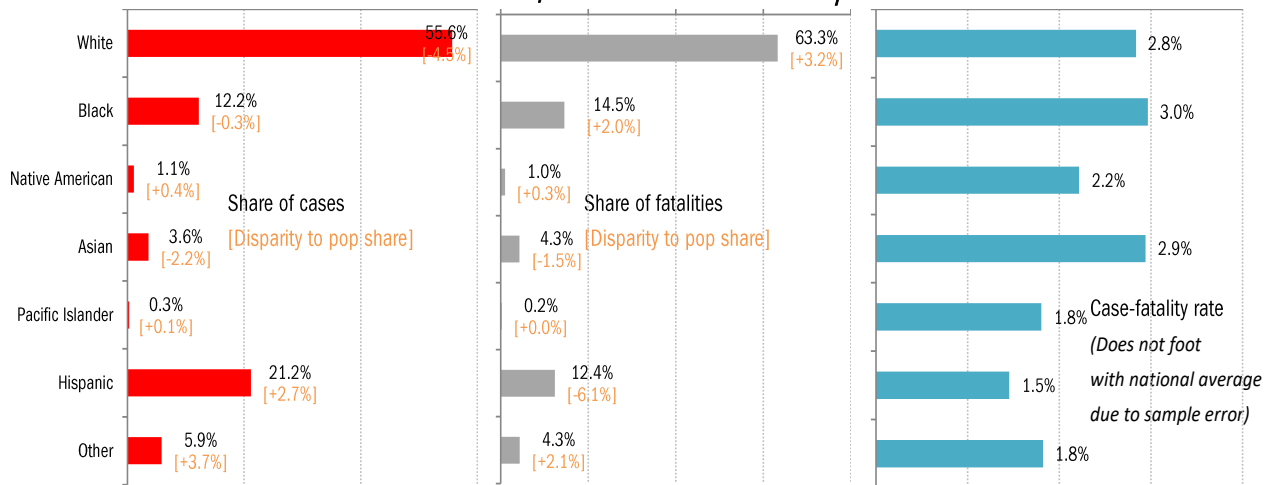
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

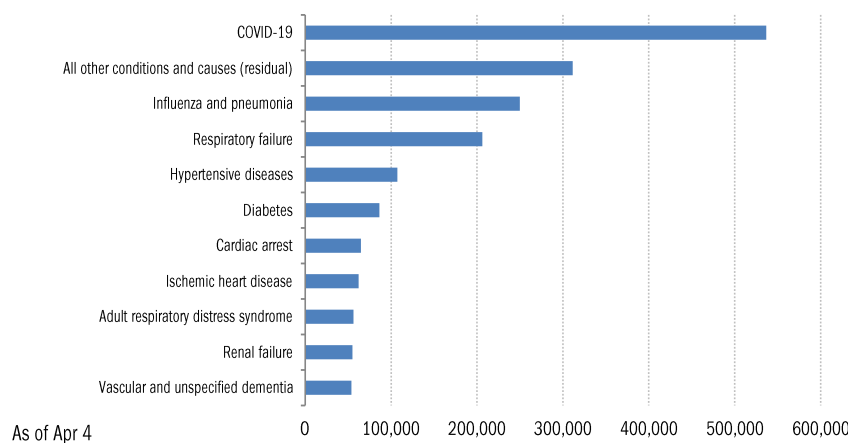


Racial distribution of US cases, fatalities and case-fatality rates Cumulative



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

[How Epidemiologists Are Planning to Vacation With Their Unvaccinated Kids](#)

Christina Caron
New York Times
April 9, 2021

[Covid Provides a Rare Chance to Transform Public Education](#)

Bobby Jindal
Wall Street Journal
April 9, 2021

[‘You Can’t Trust Anyone’: Russia’s Hidden Covid Toll Is an Open Secret](#)

Anton Troianovski
New York Times
April 10, 2021

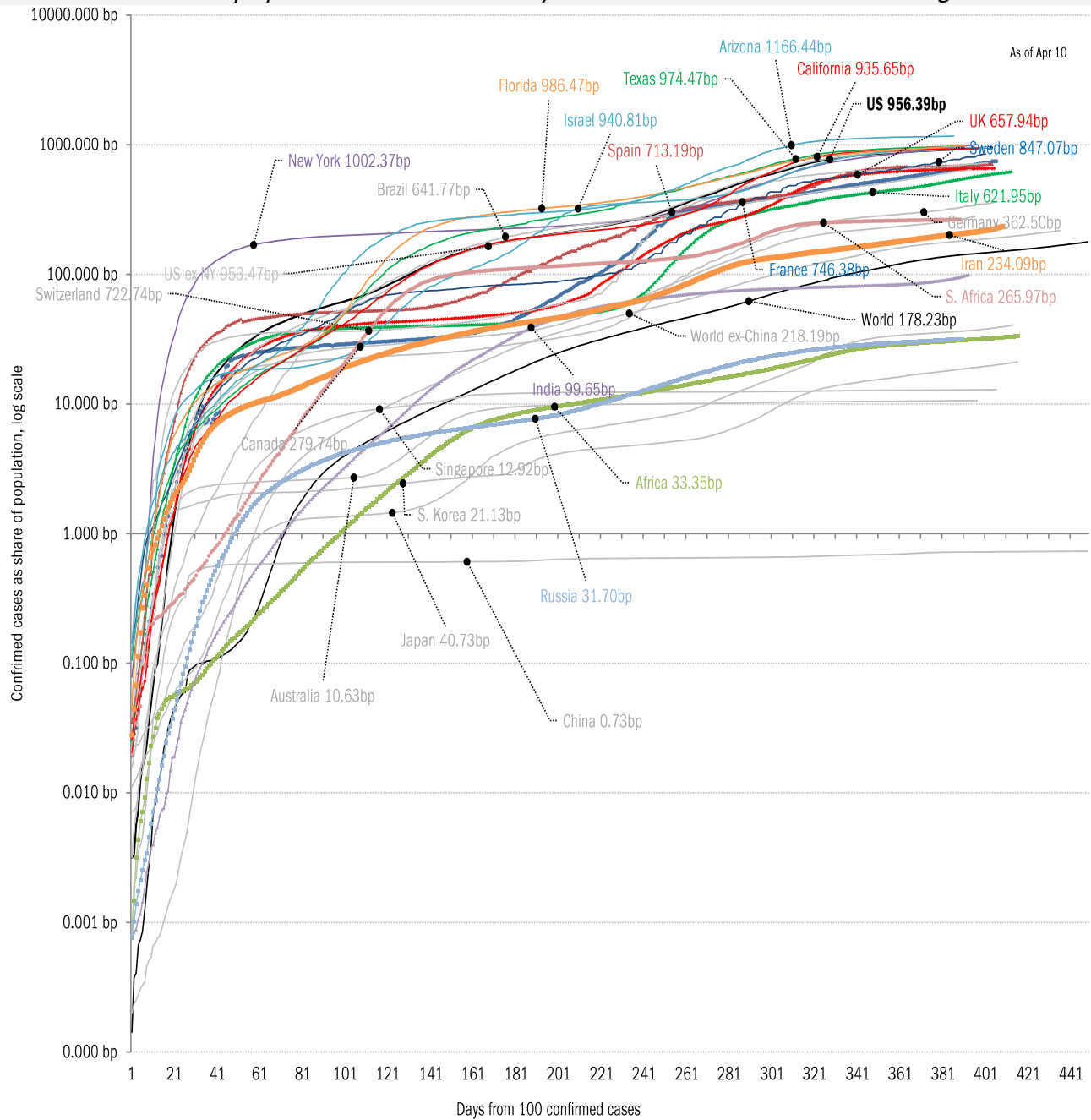
Meme of day

It's been a pleasure ruining the global economy with you.



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

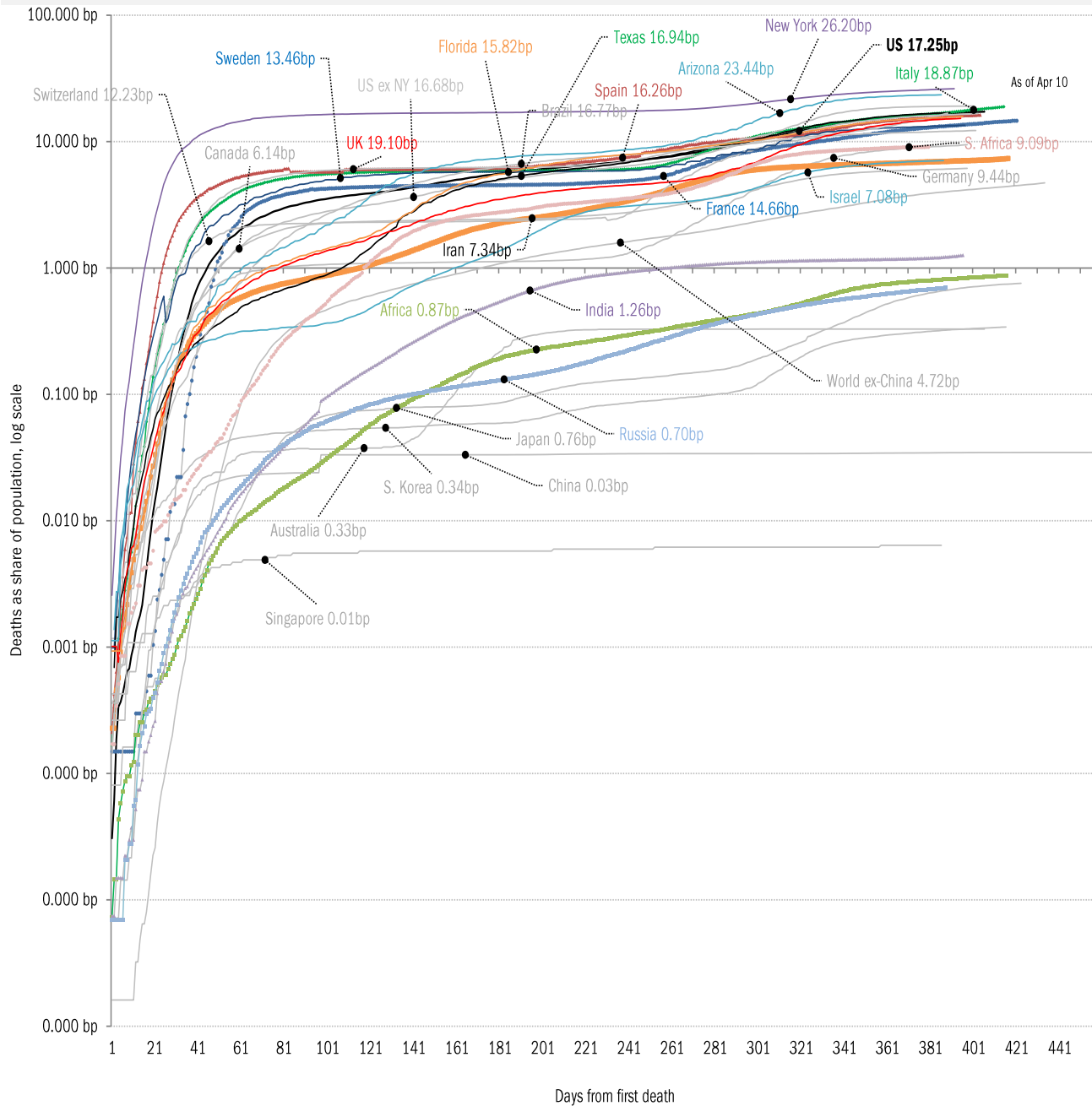
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

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

Share of deceased population from day of first fatality

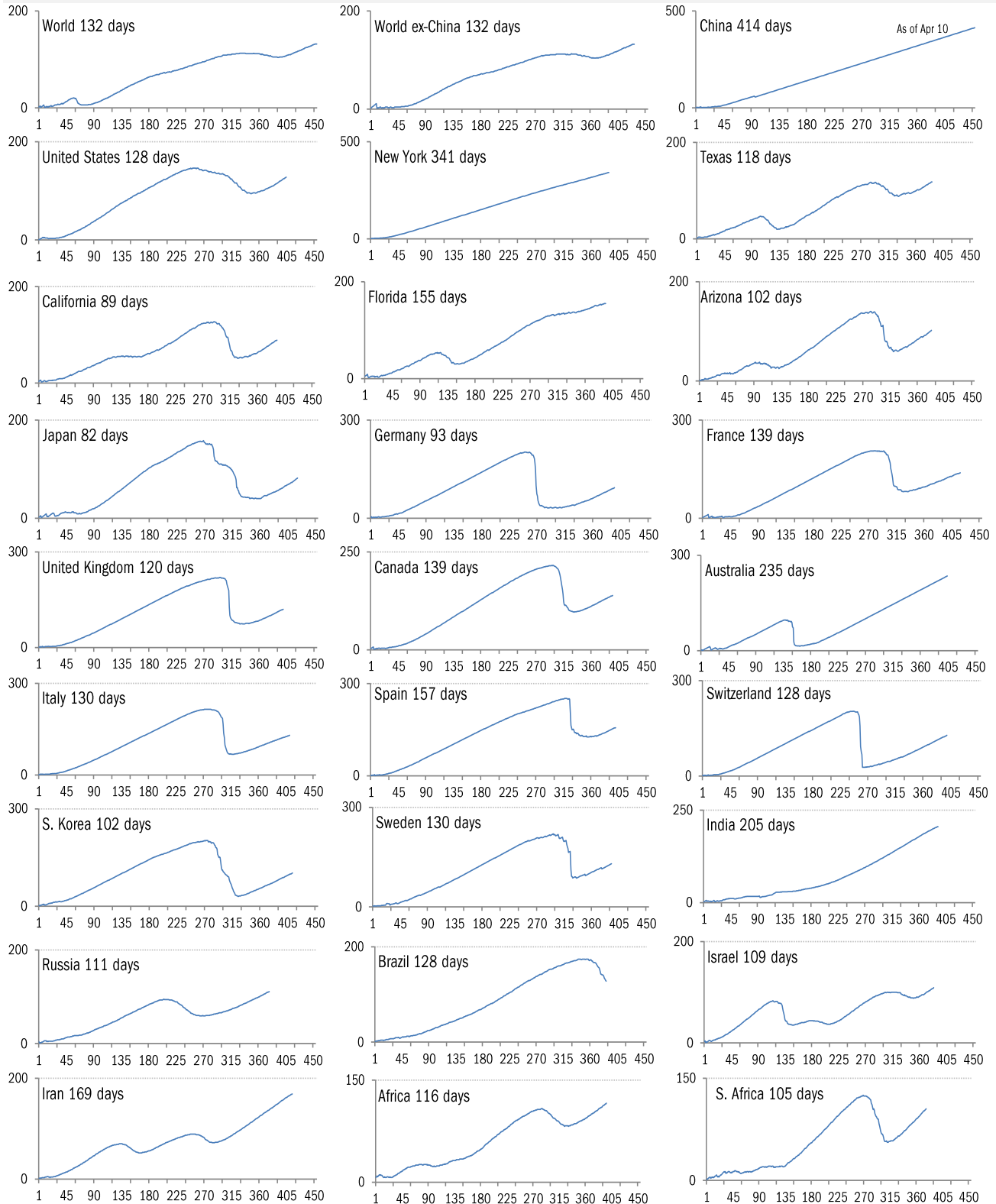


Source: [Johns Hopkins](#), TrendMacro calculations

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

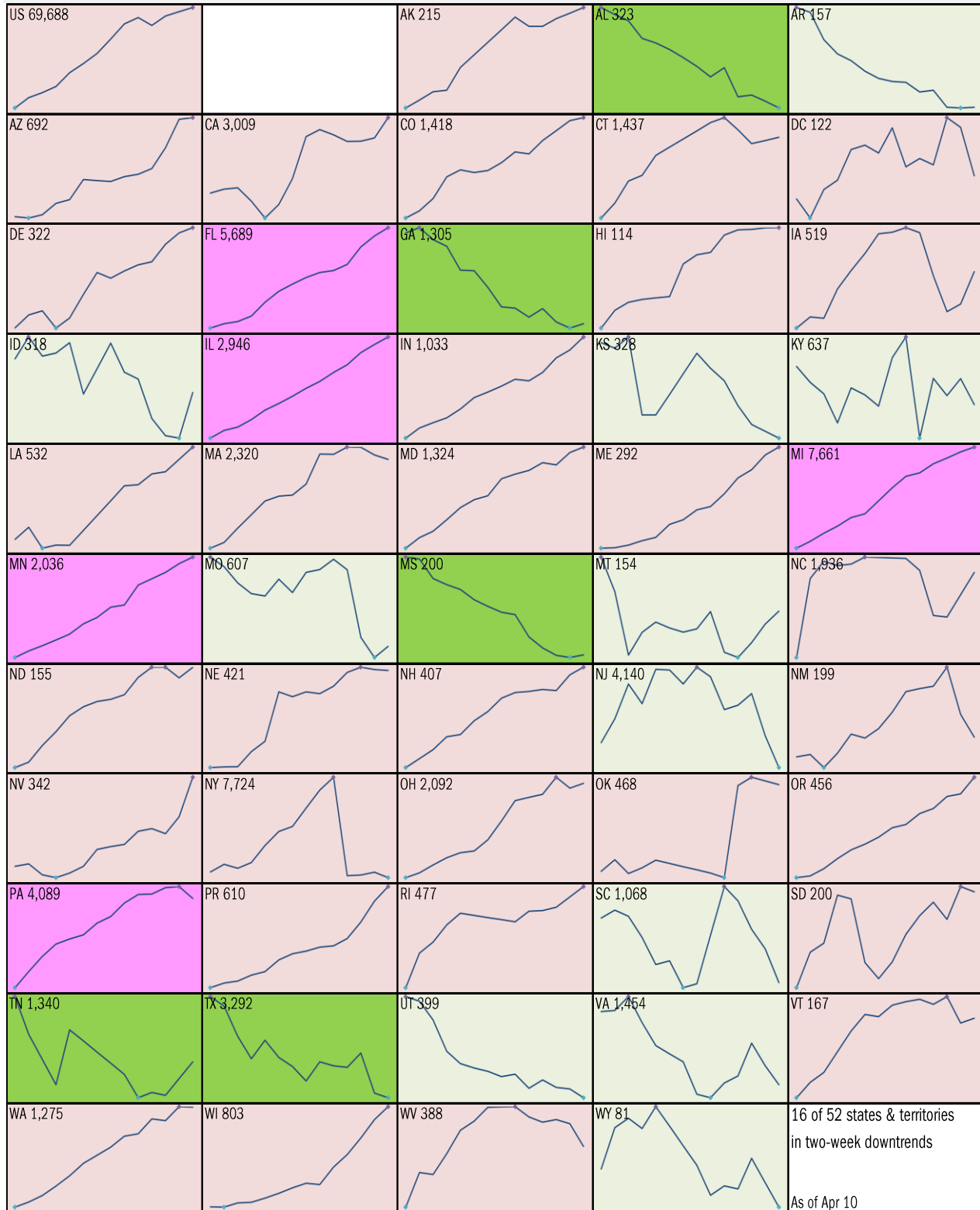
Vertical: days to double deaths Horizontal: days from first death

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

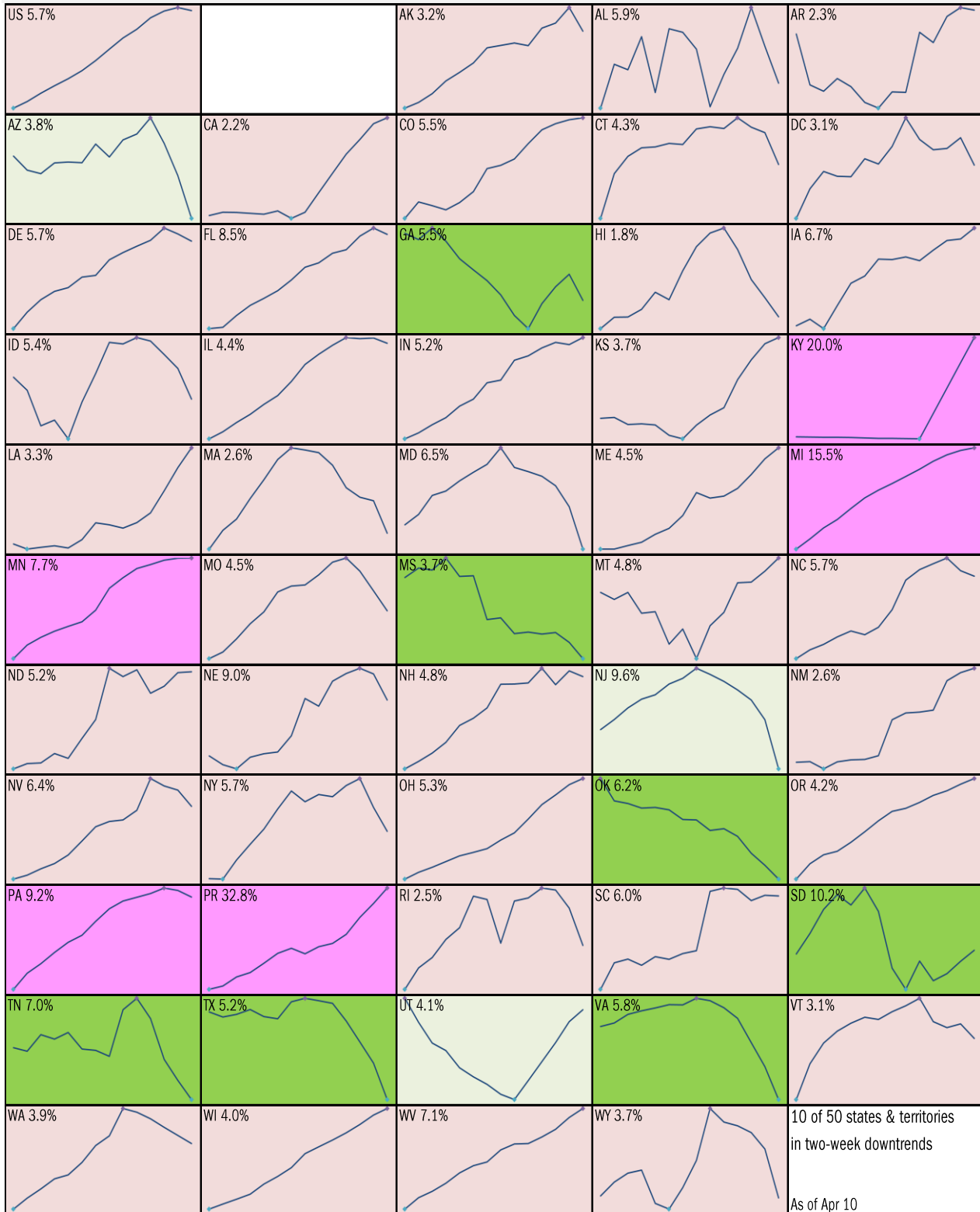


Source: [Johns Hopkins](#), TrendMacro calculations

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

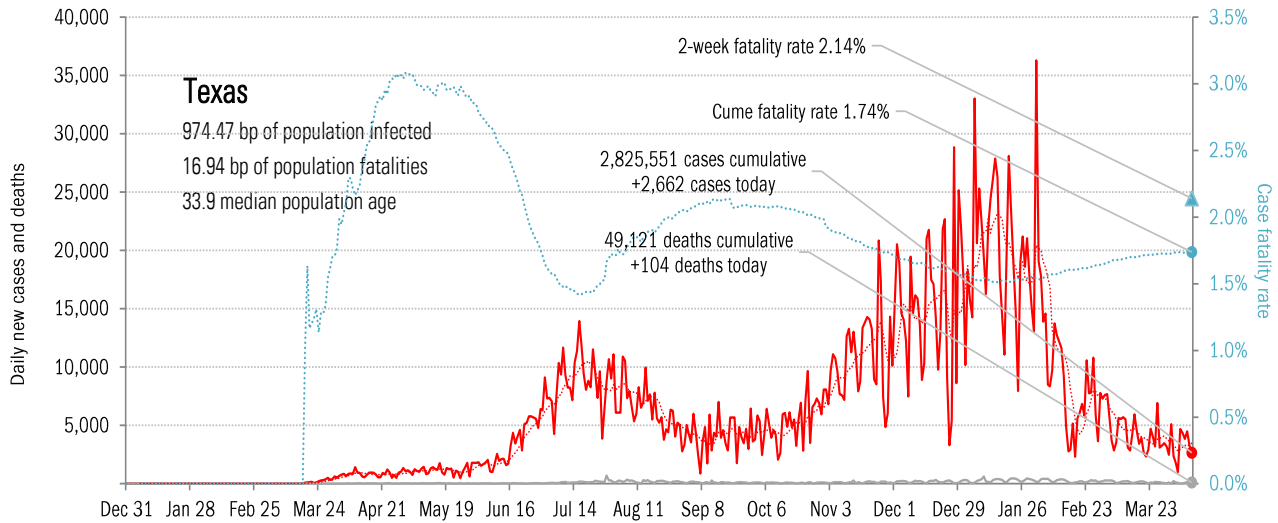
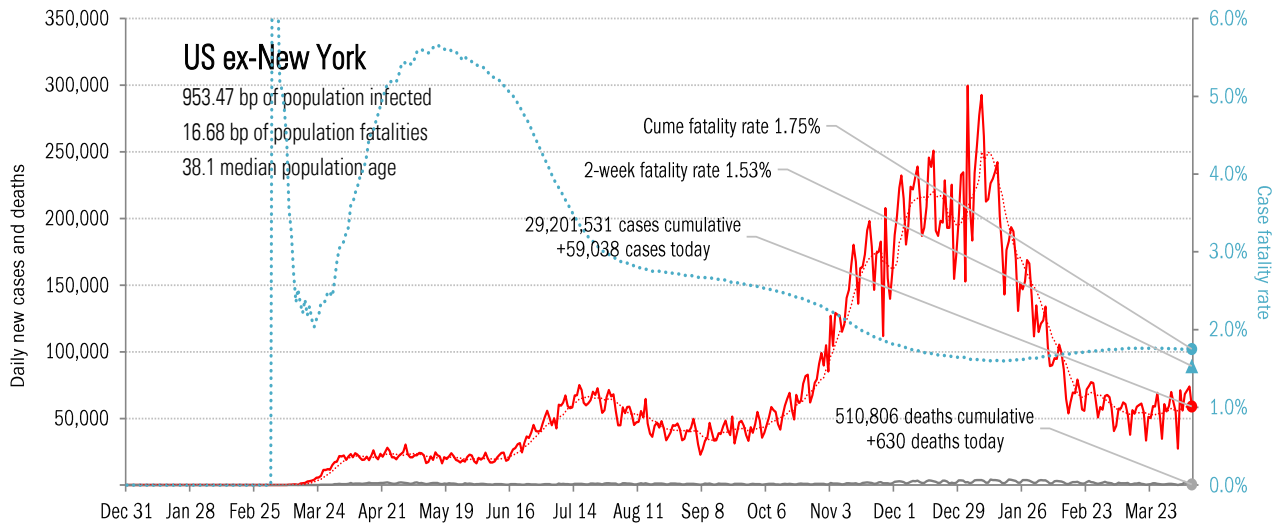
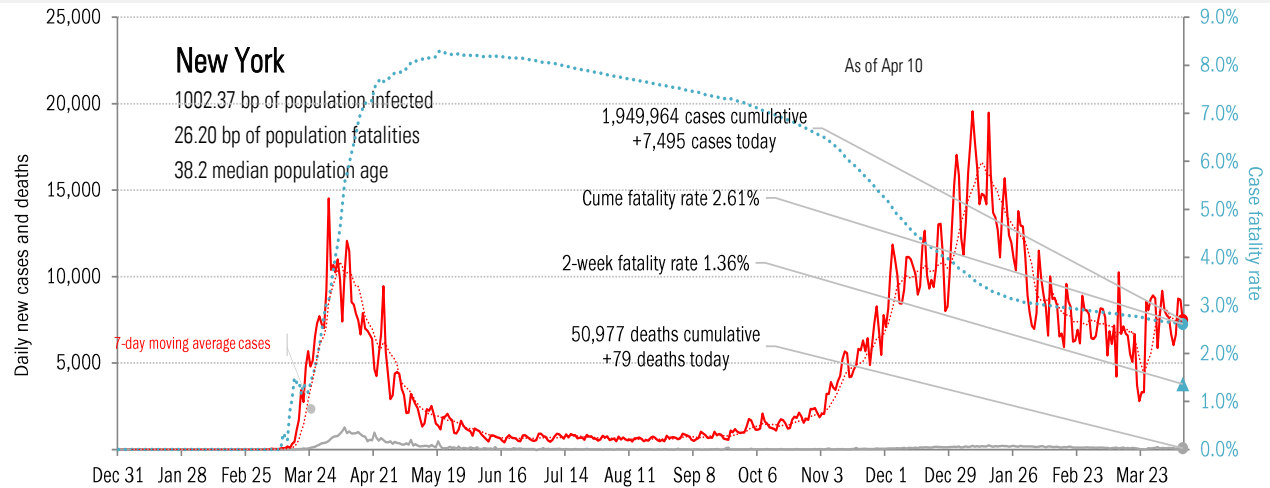
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



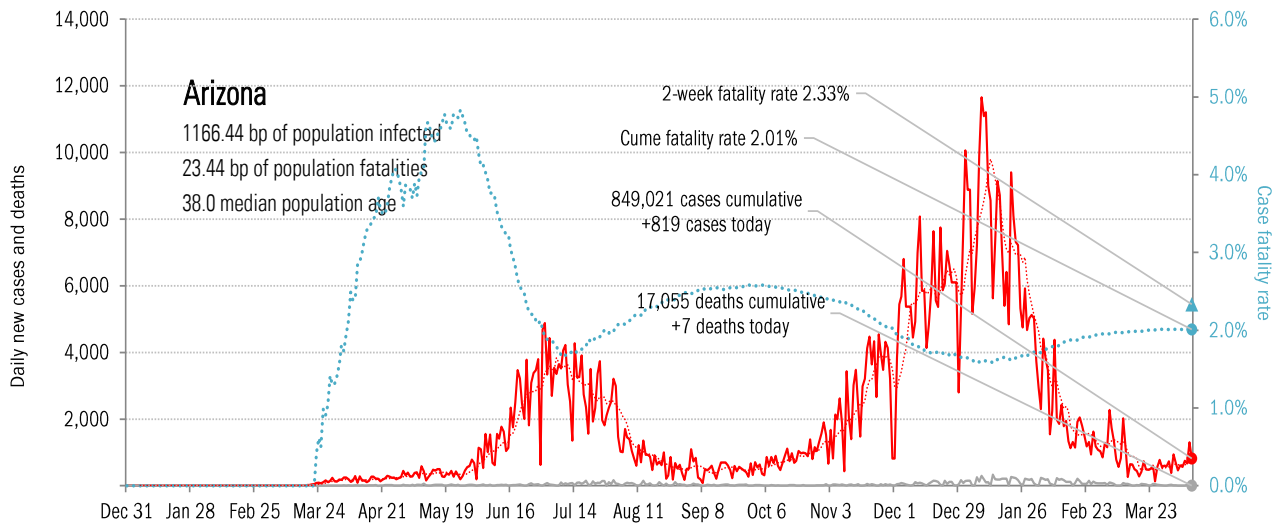
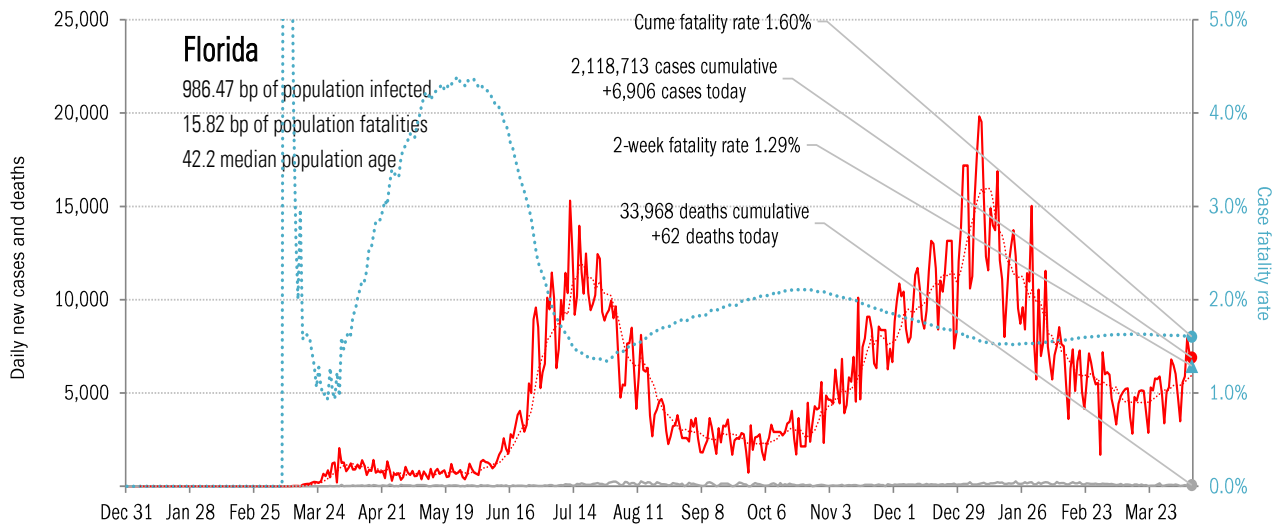
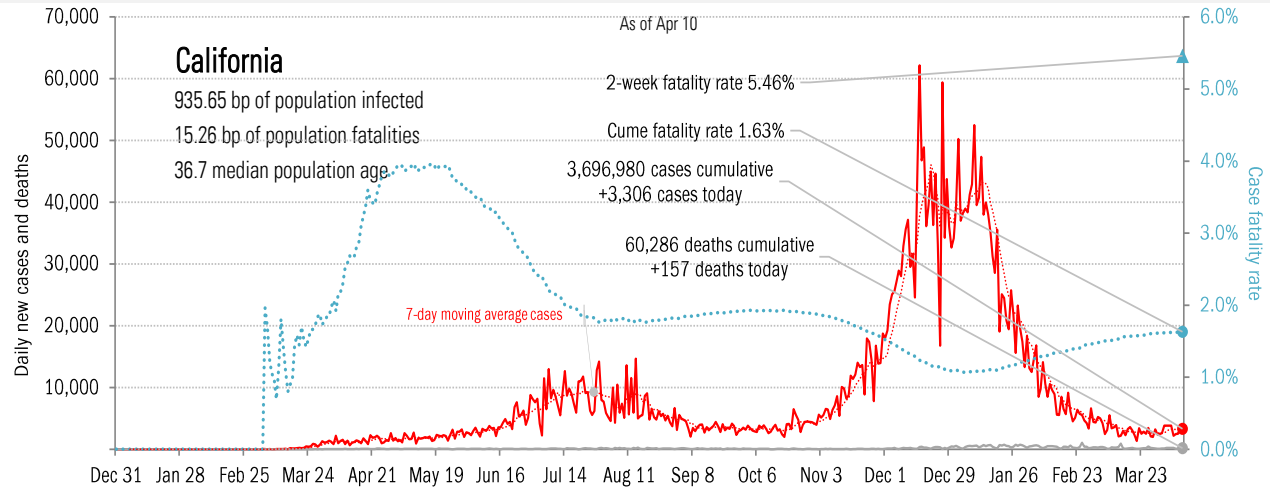
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



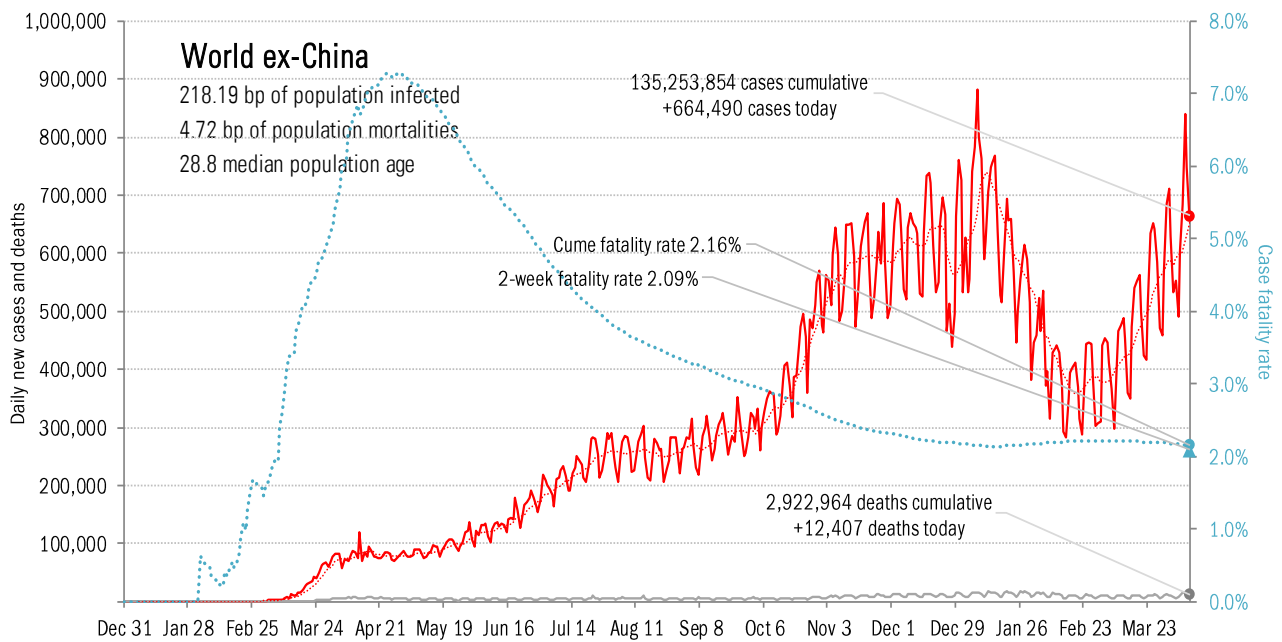
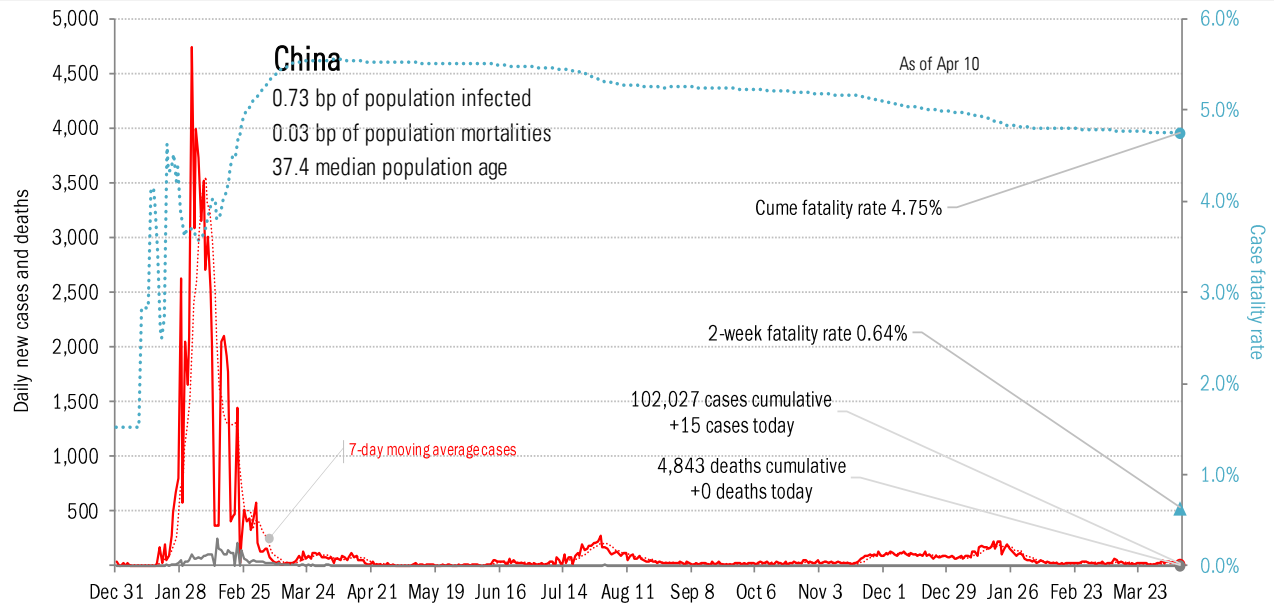
Source: [Johns Hopkins](#), TrendMacro calculations

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



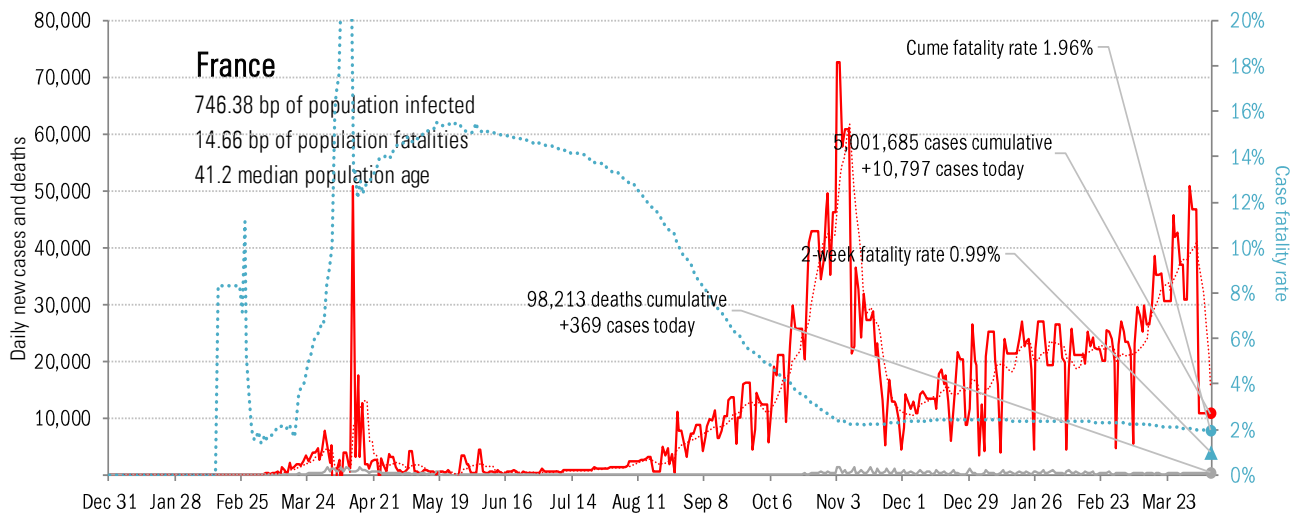
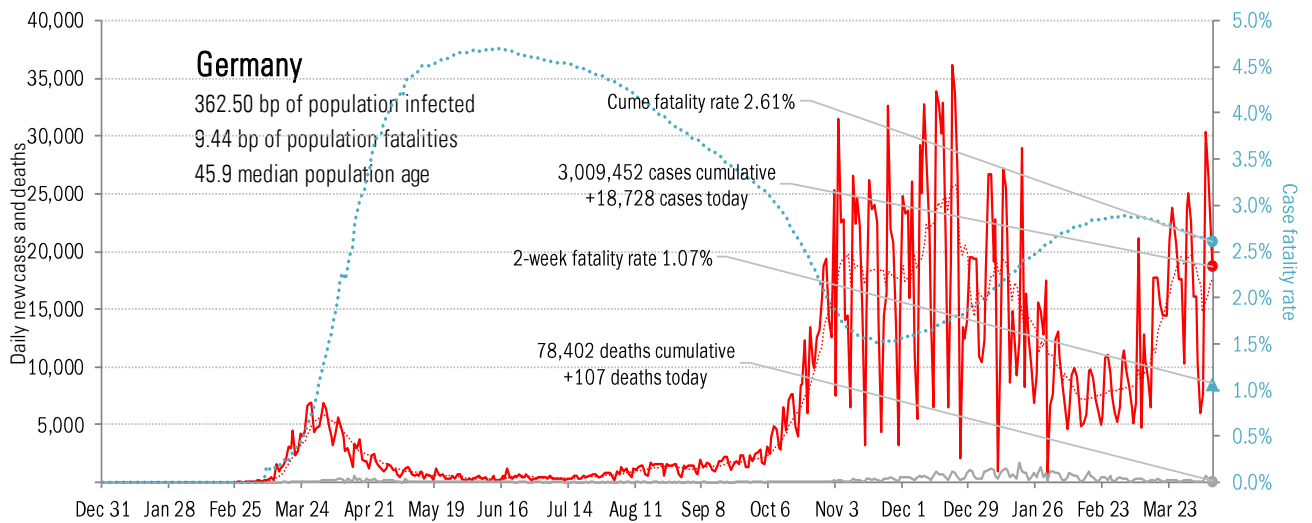
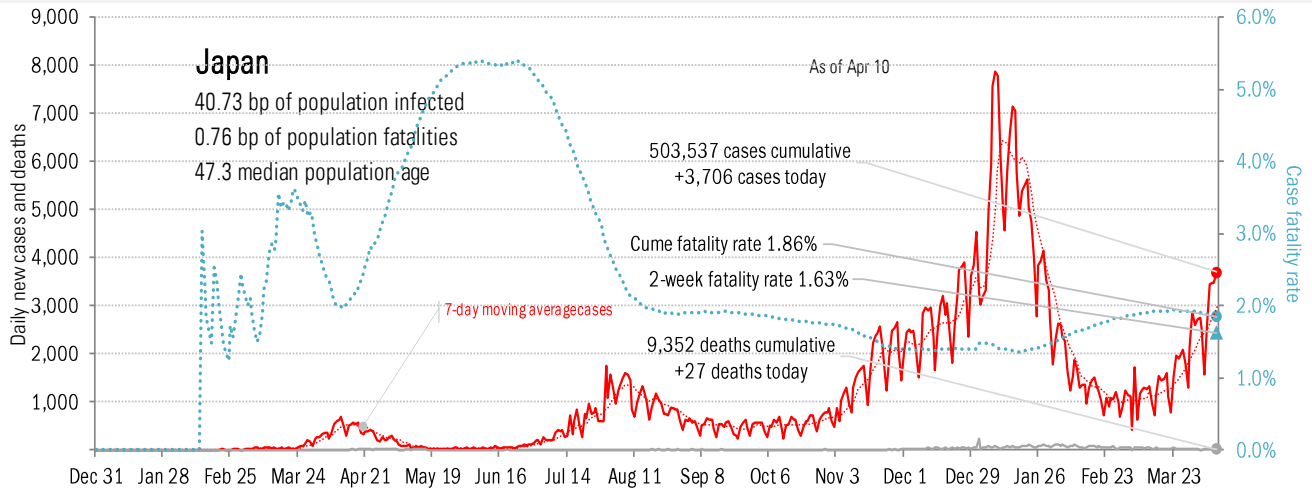
Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

Patient zero... and then everyone else



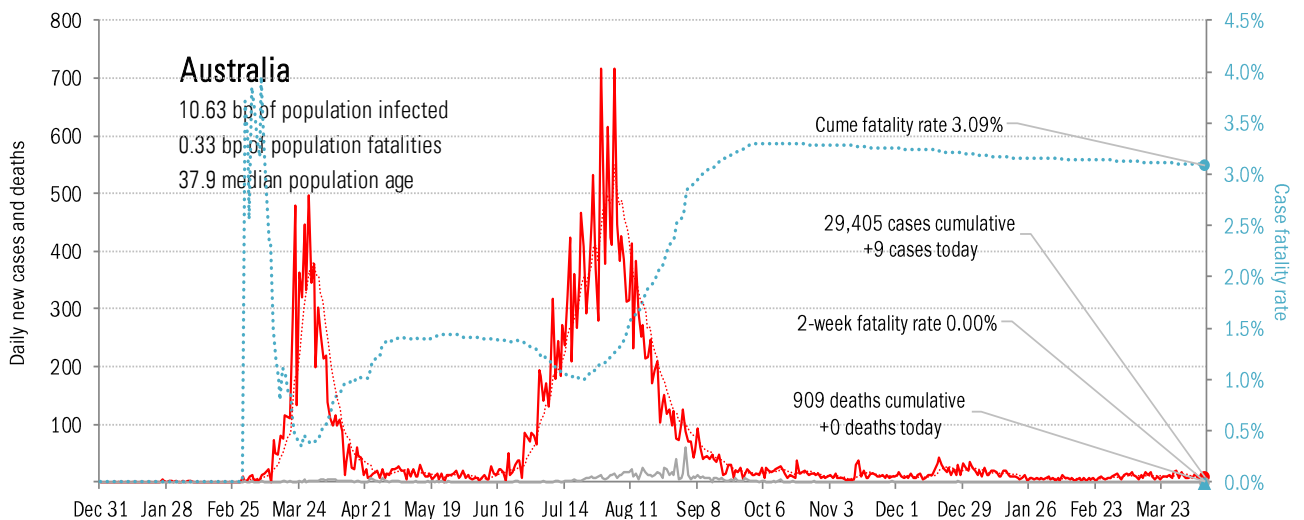
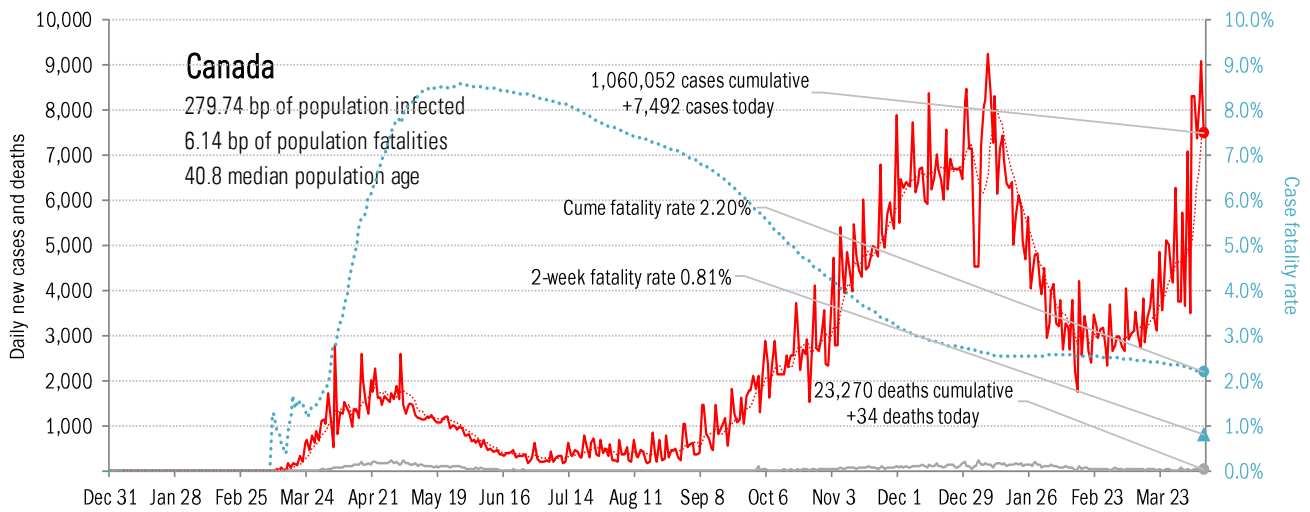
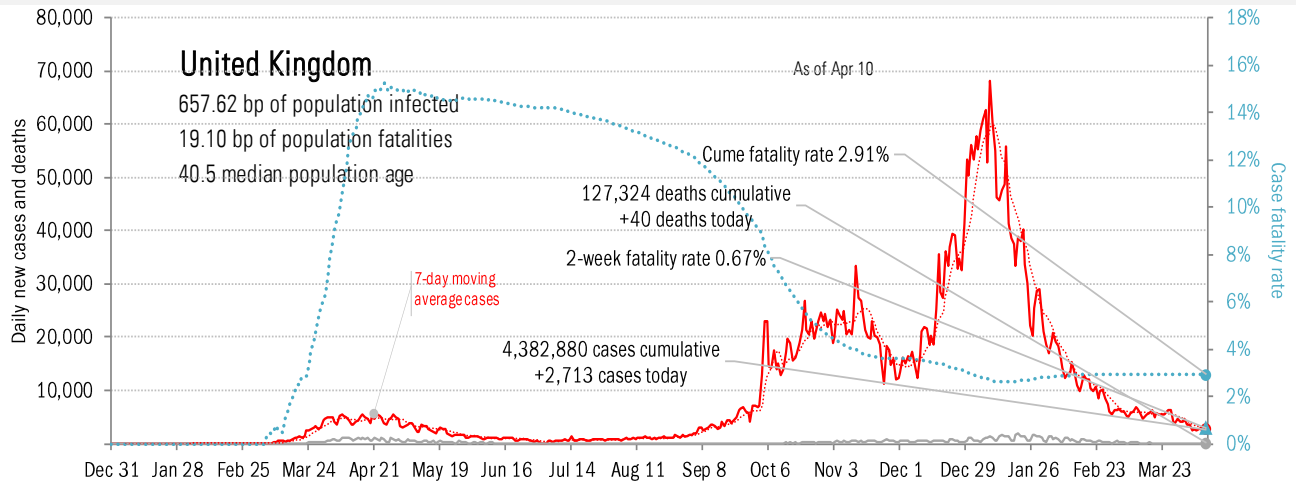
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



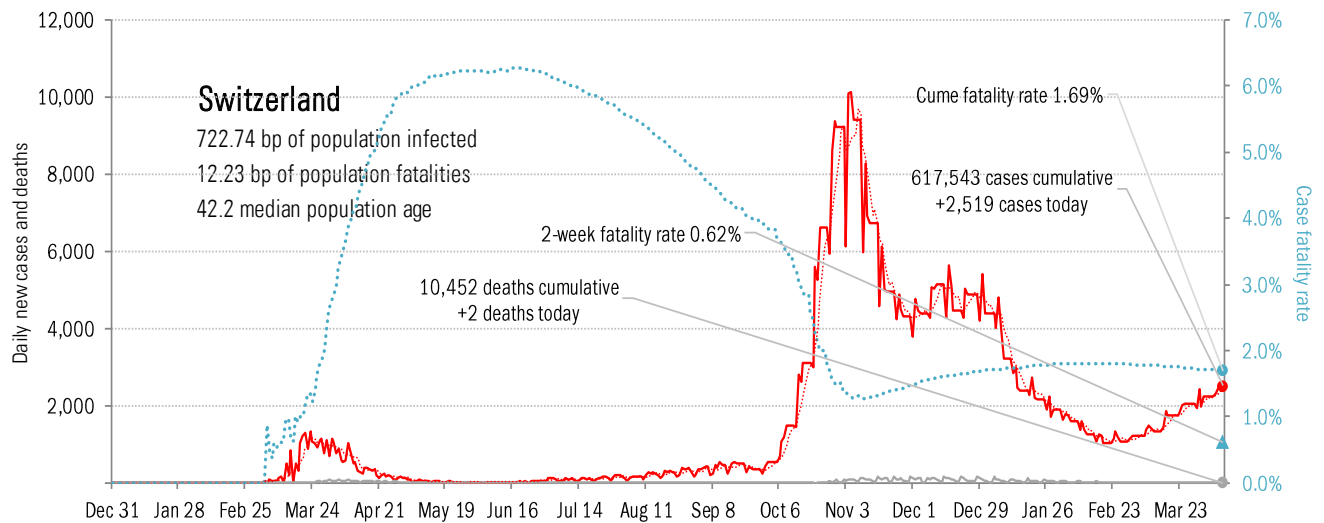
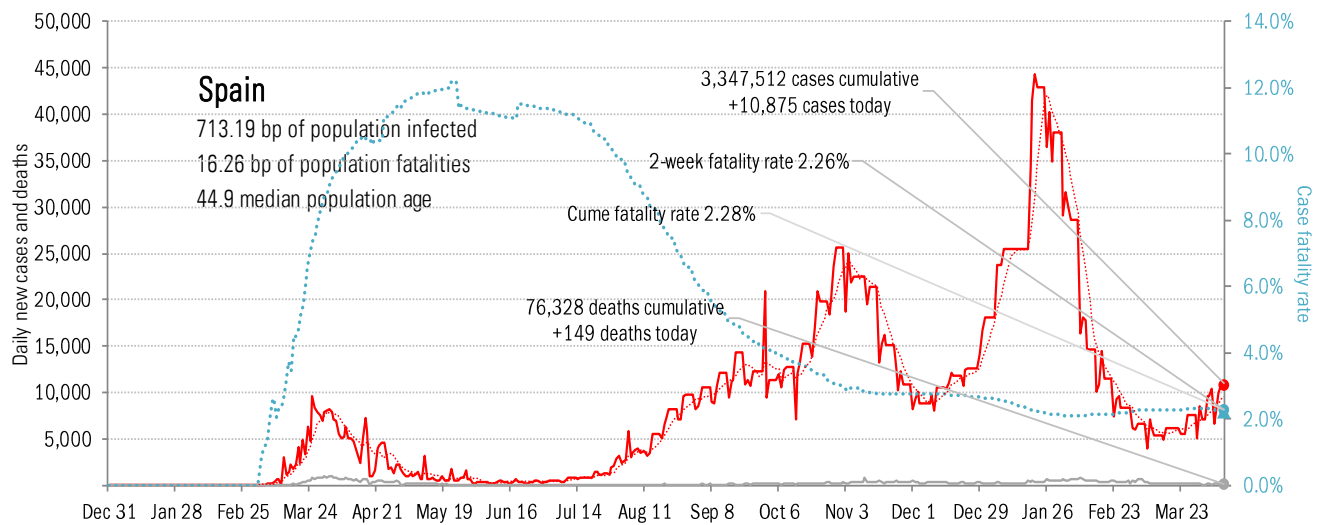
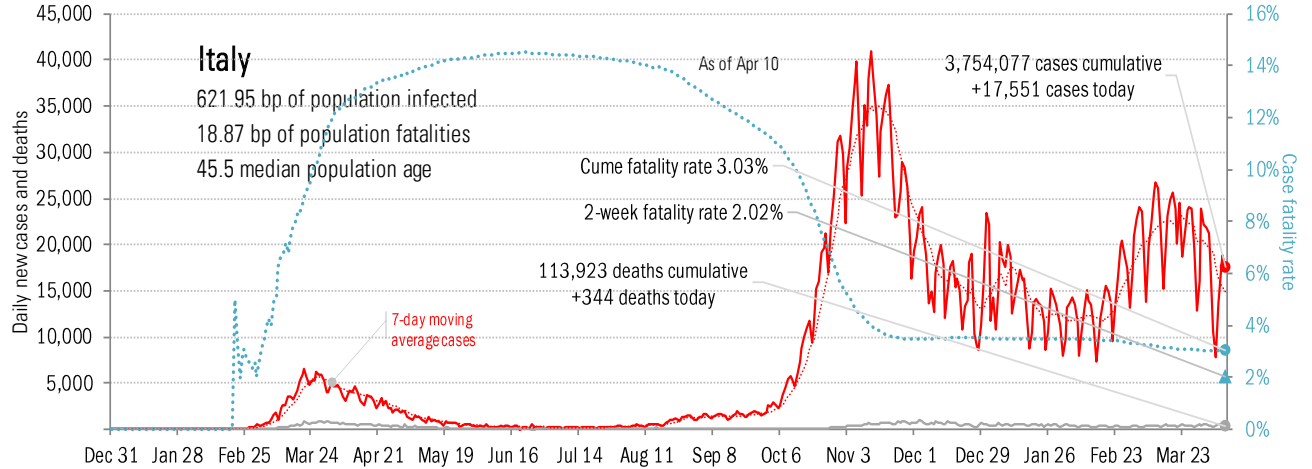
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



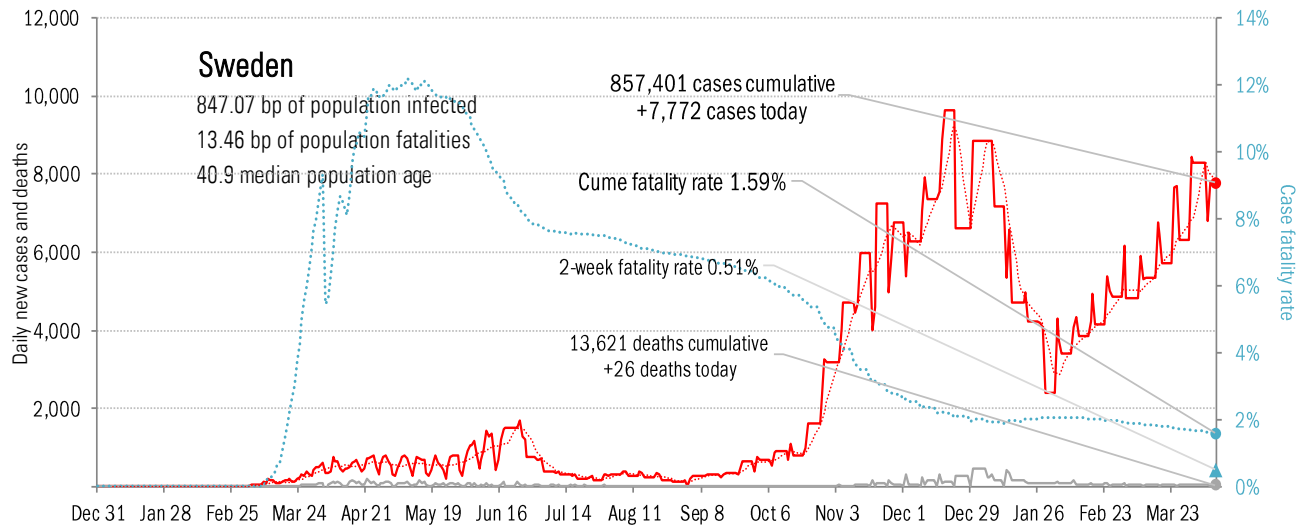
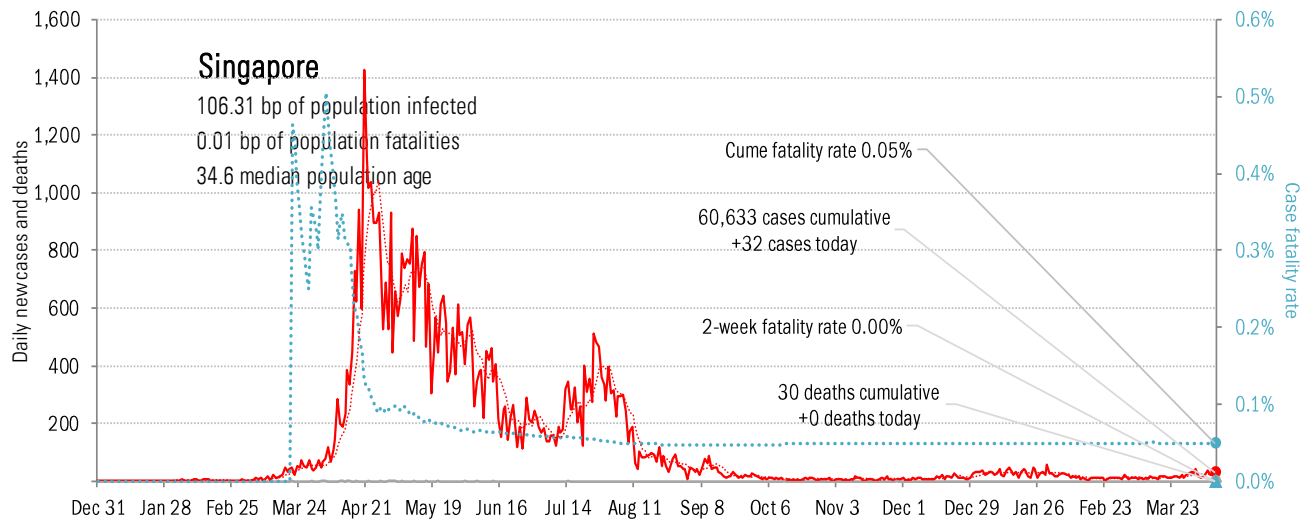
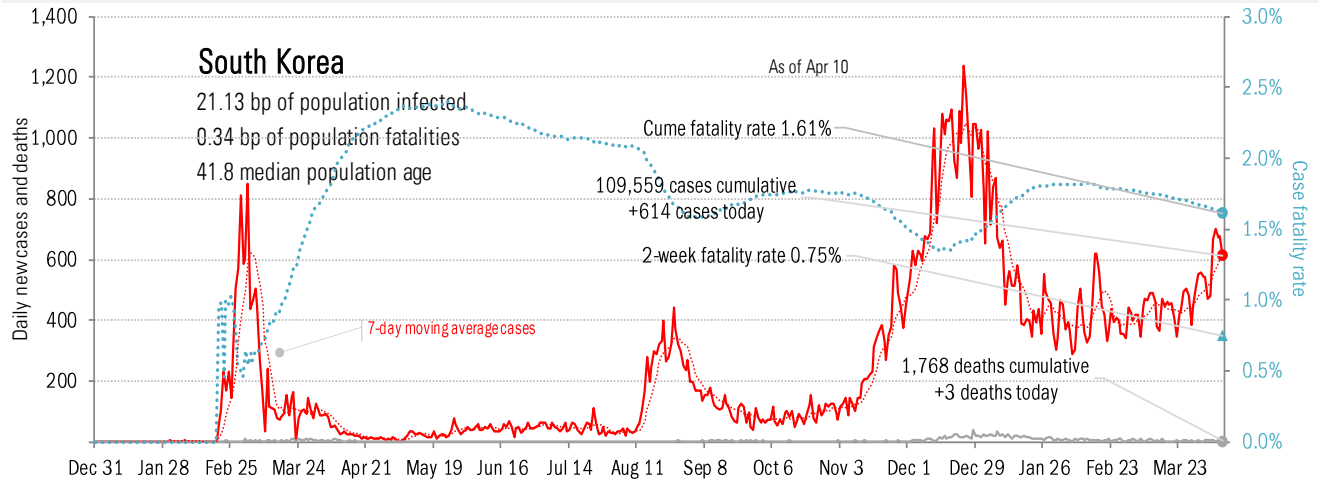
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



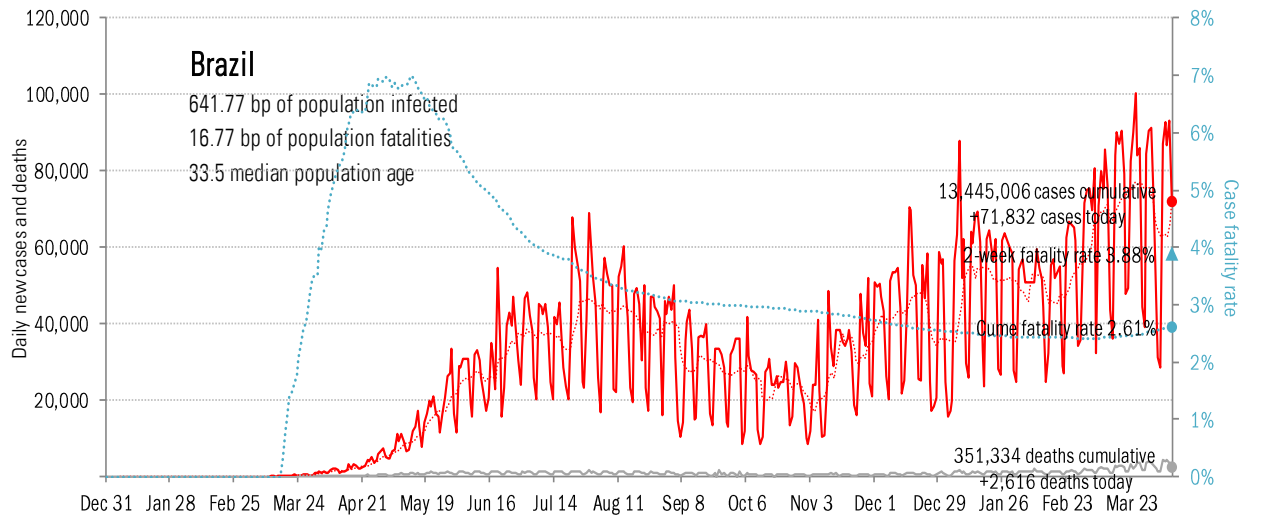
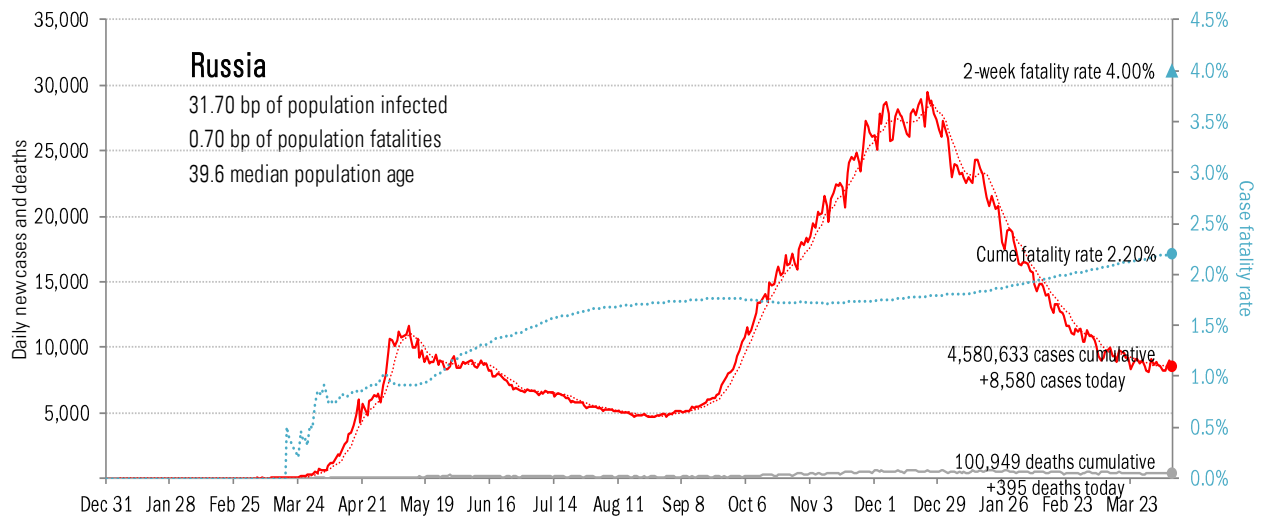
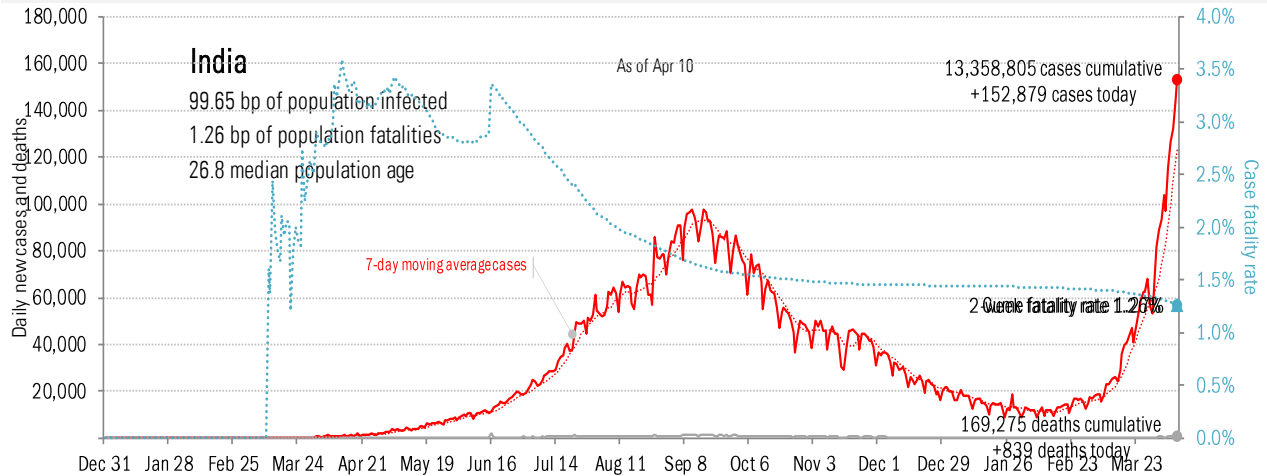
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



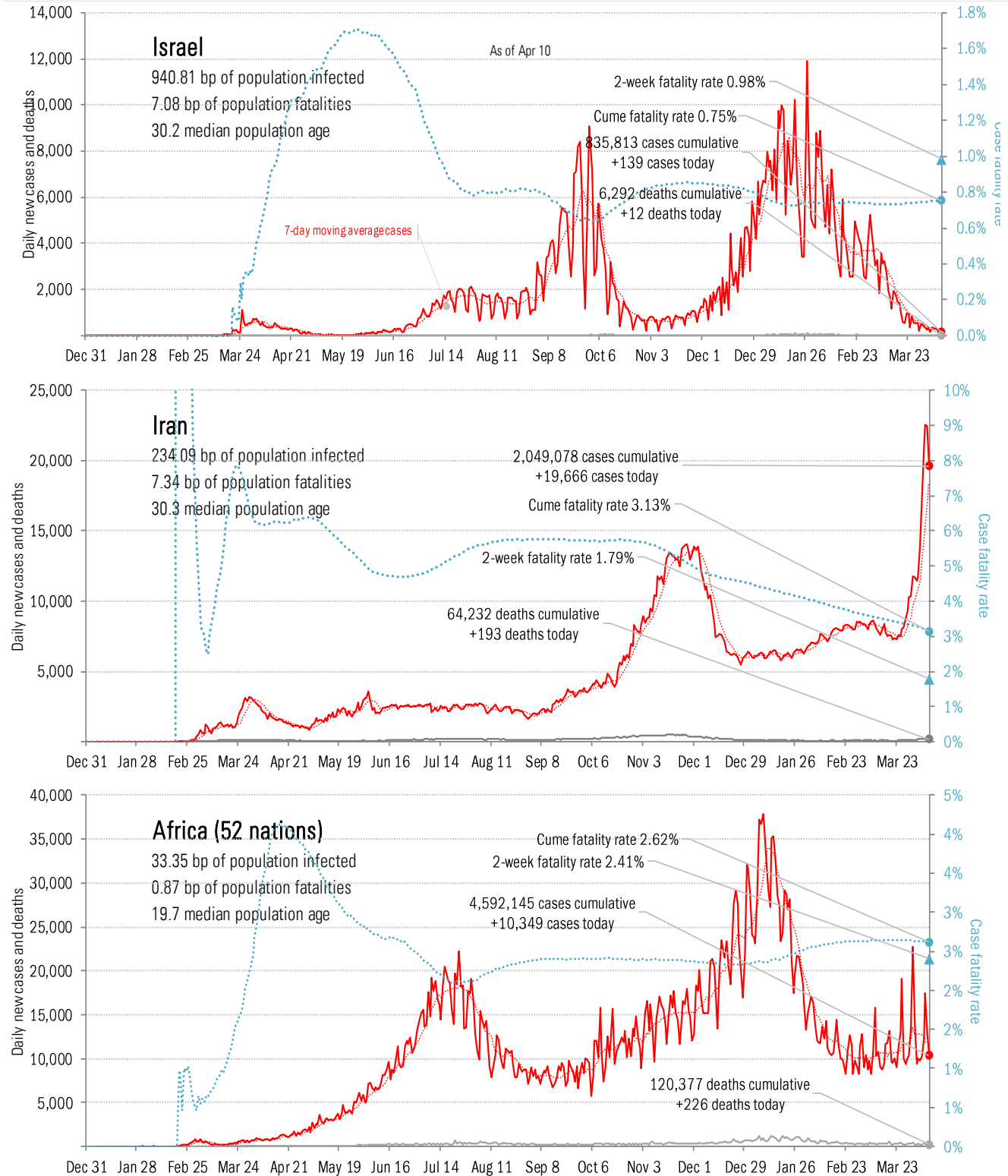
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



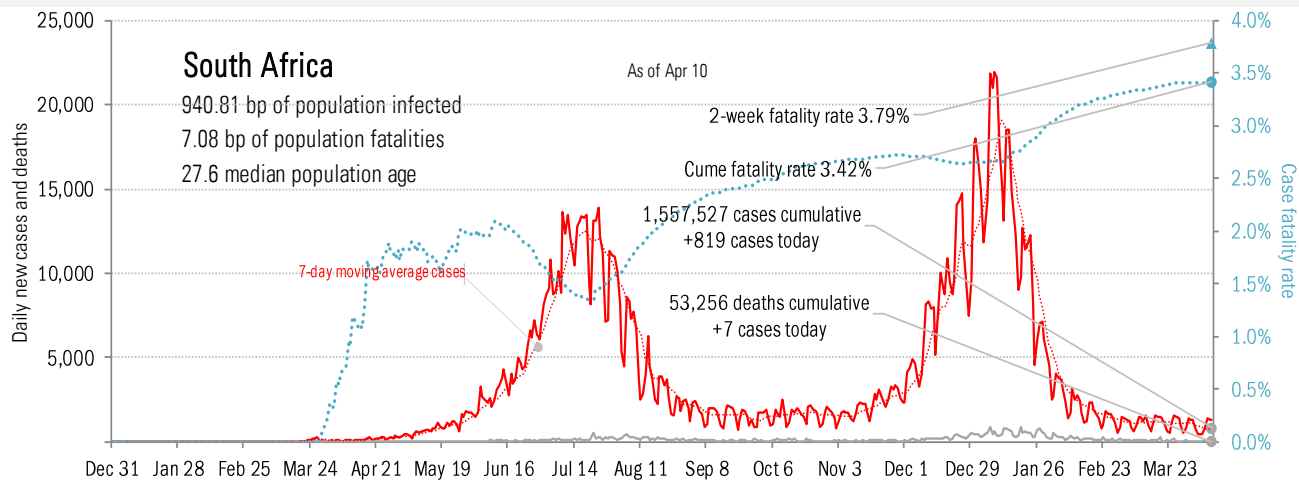
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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