

## Data Insights: Covid-2019 Monitor

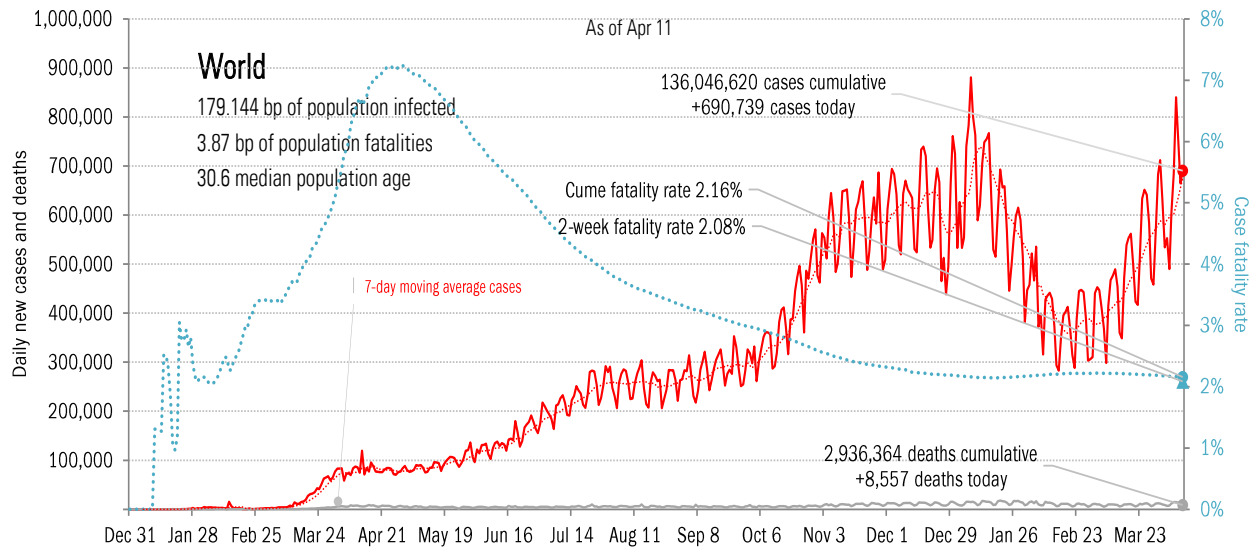
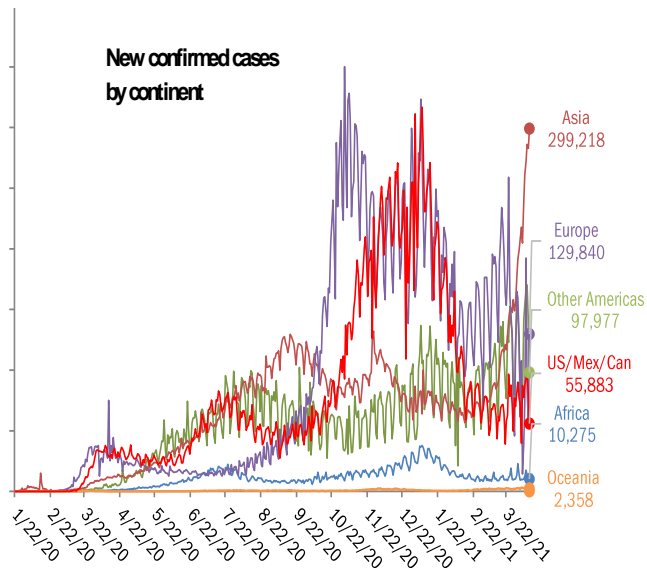
Monday, April 12, 2021

### The global scorecard

#### The worst ten countries

New cases		New Deaths	
India	+168,912	Brazil	+1,803
France	+117,900	India	+904
Turkey	+50,678	France	+696
United States	+46,378	Russia	+333
Brazil	+37,017	Italy	+331
Poland	+21,733	United States	+283
Iran	+21,063	Colombia	+281
Colombia	+17,483	Iran	+258
Italy	+15,737	Poland	+245
Argentina	+15,262	Ukraine	+239
<b>+512,163</b>		<b>+5,373</b>	
World	+690,739	World	+8,557
Top ten	74%	Top ten	63%

#### New confirmed cases by continent



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

#### For more information contact us:

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 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

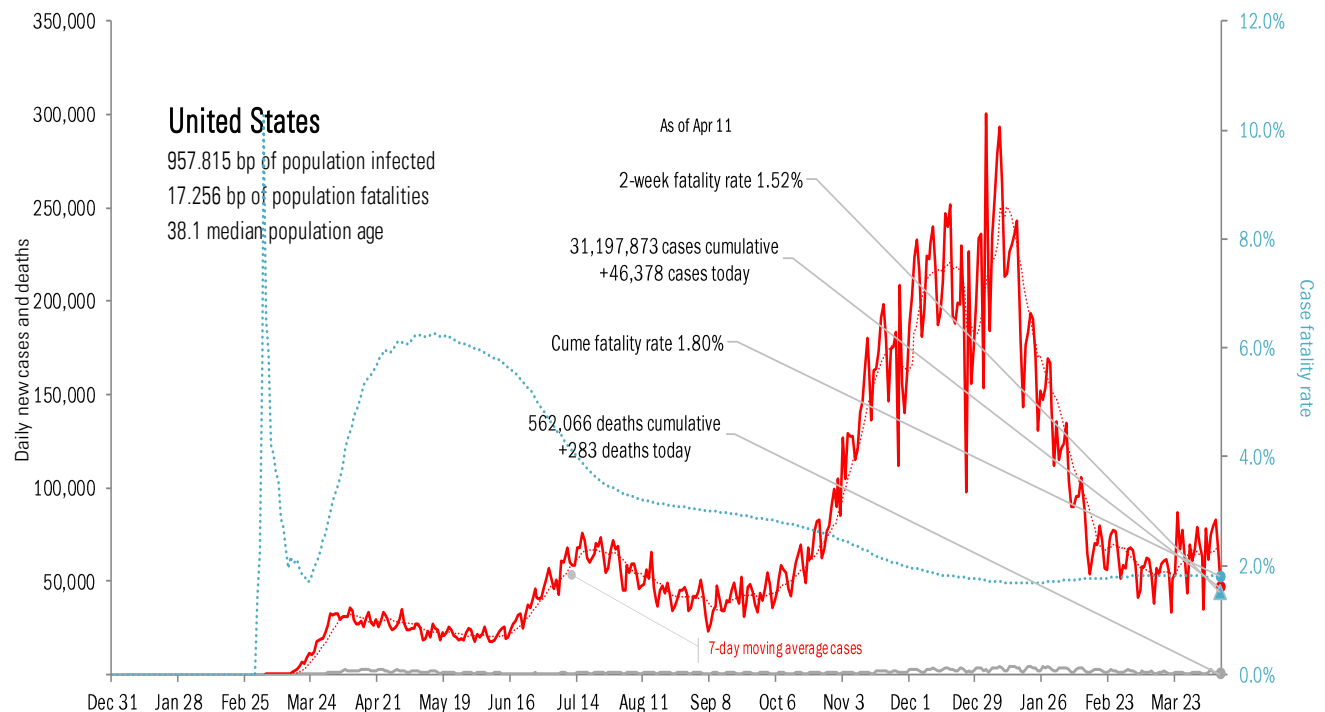
## The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
NY	+6,630		NY	+81		PR	+205		CA	3,700,471		CA	60,452		TX	230,397		RI	90%	MI	29%
FL	+5,520		CA	+68		MI	+124		TX	2,826,977		NY	51,117		CA	225,627		MA	84%	MD	25%
CA	+3,491		TX	+24		GA	+108		FL	2,124,233		TX	49,212		FL	157,459		MD	83%	RI	20%
NJ	+3,387		IL	+16		IL	+54		NY	1,956,594		FL	34,021		NY	120,811		PA	81%	NY	18%
PA	+3,194		VA	+14		FL	+38		IL	1,279,663		PA	25,393		GA	96,993		MO	81%	DC	18%
IL	+2,939		MN	+13		NJ	+30		PA	1,073,924		NJ	24,870		CH	77,697		MI	80%	PA	16%
MA	+1,991		MD	+11		ND	+25		GA	1,073,792		IL	23,793		PA	77,625		CT	80%	MN	16%
CH	+1,855		NJ	+11		MN	+24		CH	1,039,455		GA	19,488		IL	70,990		MN	79%	NJ	14%
MN	+1,776		IN	+10		WA	+21		NJ	953,490		CH	18,827		KY	69,597		FL	78%	TX	14%
MD	+1,483		KY	+9		CO	+18		NC	929,406		MI	17,563		AZ	59,058		WV	78%	WV	13%
	+32,266			+257			+647			16,958,005			324,736			1,186,254					
All states	+46,378			+283			+776		All states	31,197,873			562,066			2,115,580		All states	70%		67%
Top ten	70%			91%			83%		Top ten	54%			58%			56%		Median	71%		10%

Some states not reporting

## Five most improved US states

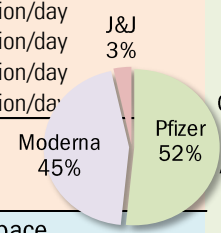
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-7,539	MI	-84	MI	-93	WY	+197 bp
WA	-1,436	GA	-64	MD	-69	NH	+100 bp
FL	-1,386	TX	-43	KY	-68	WI	+100 bp
TX	-1,236	FL	-39	CT	-27	RI	+97 bp
NY	-865	AZ	-36	IN	-26	MN	+97 bp



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

# Rolling out the vaccines in the US and the world

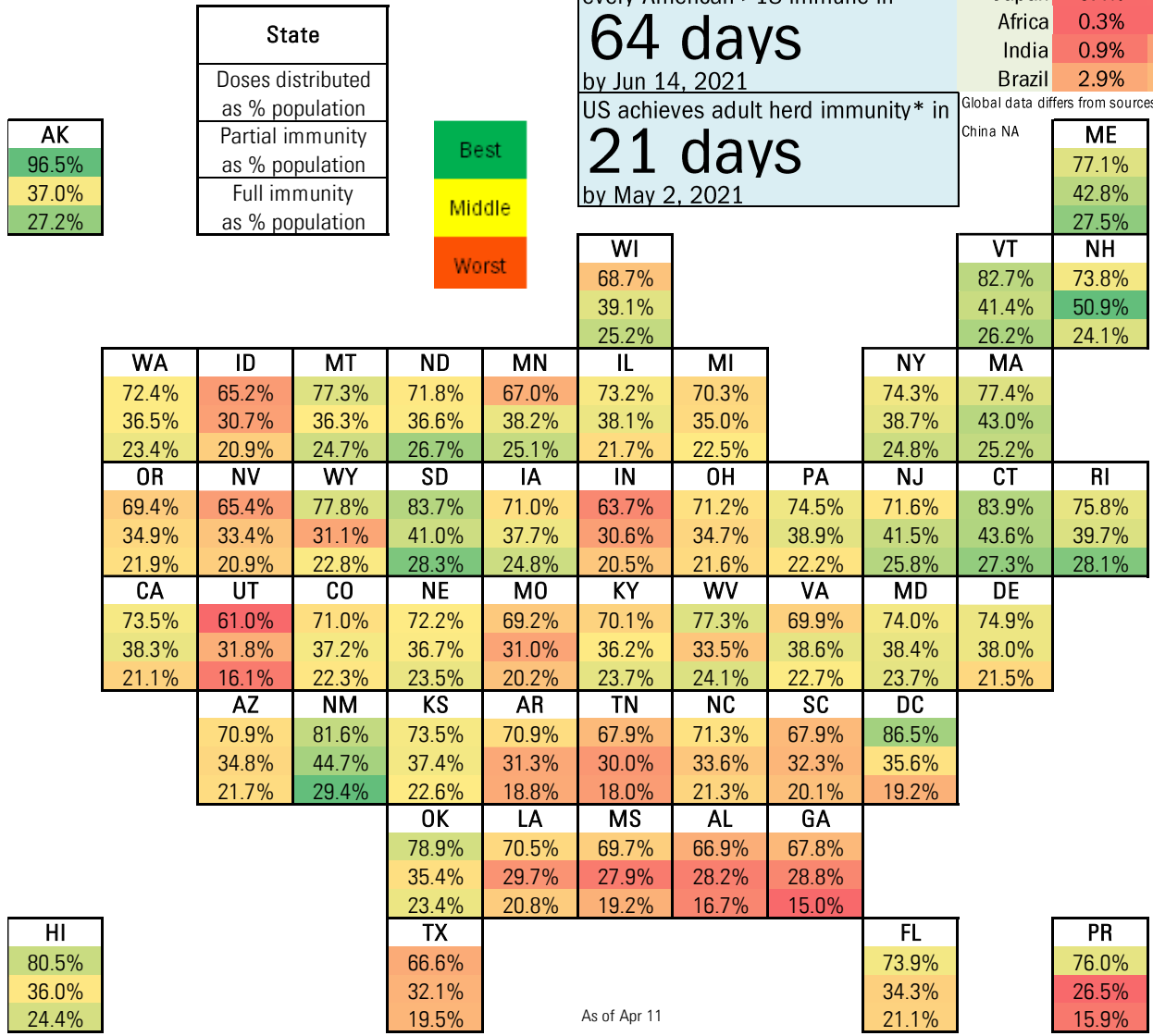
US overall	Over last day	Immunity	Full	Partial
248.06 million doses distributed	+0.00 million/day	US	21.7%	35.7%
194.22 million doses administered	+3.67 million/day	UK	11.0%	47.3%
123.08 million persons partially immunized	+2.14 million/day	France	5.4%	15.8%
75.44 million persons fully immunized	+1.99 million/day	Spain	6.6%	15.3%
7.77 million shots long-term care residents/staff	+0.00 million/day	Germany	6.0%	15.8%
<b>78.3% of distributed doses administered</b>		Italy	6.5%	15.1%
<b>36.8% of US pop partial</b>	<b>22.6% full immunity</b>	Australia	0.8%	0.6%
<b>100% of LTC partial</b>	<b>63.8% full immunity</b>	Israel	57.0%	61.5%
		Canada	2.1%	19.1%
		Japan	0.4%	0.9%
		Africa	0.3%	0.7%
		India	0.9%	6.6%
		Brazil	2.9%	9.7%



At today's dosing pace,  
every American >18 immune in  
**64 days**  
by Jun 14, 2021

US achieves adult herd immunity\* in  
**21 days**  
by May 2, 2021

Global data differs from sources, timing



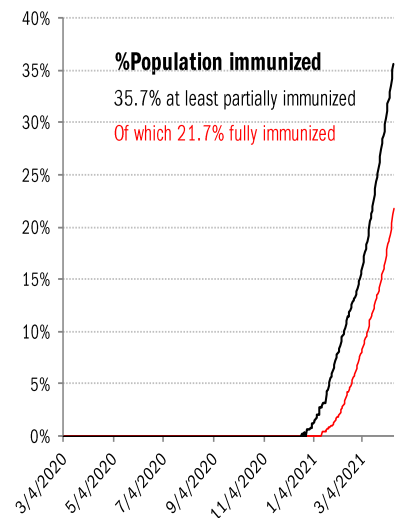
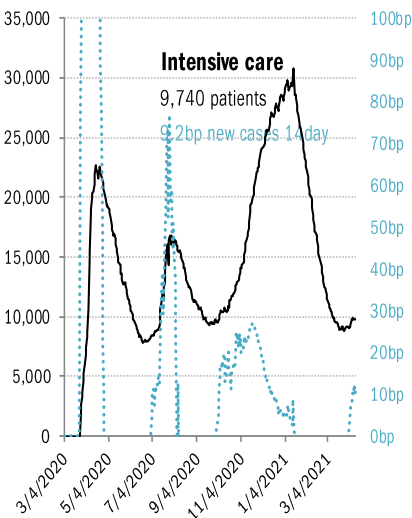
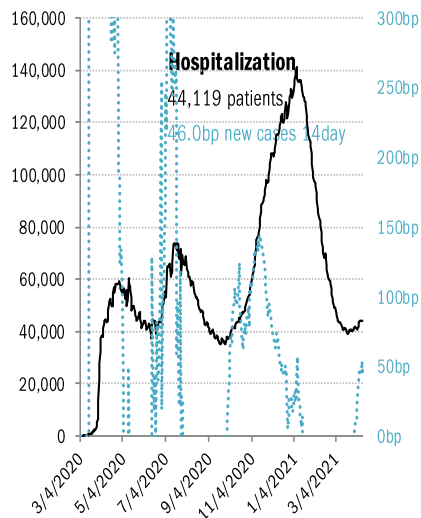
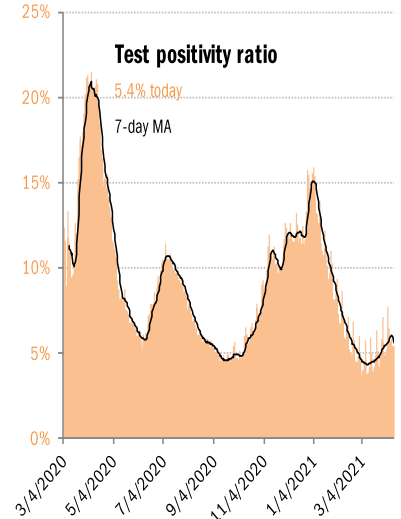
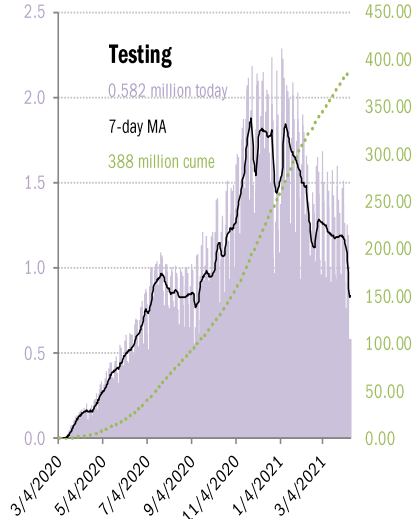
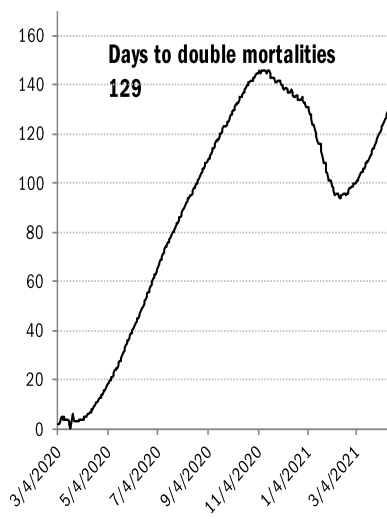
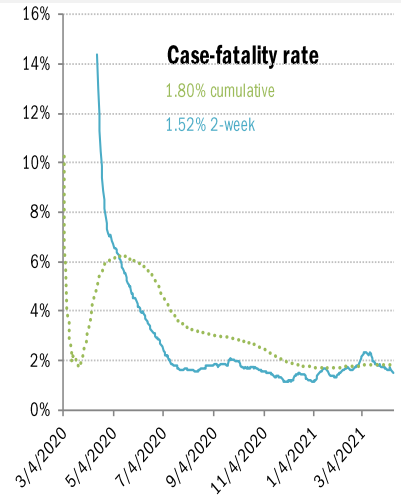
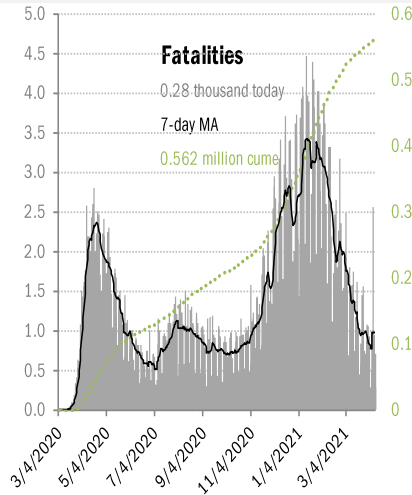
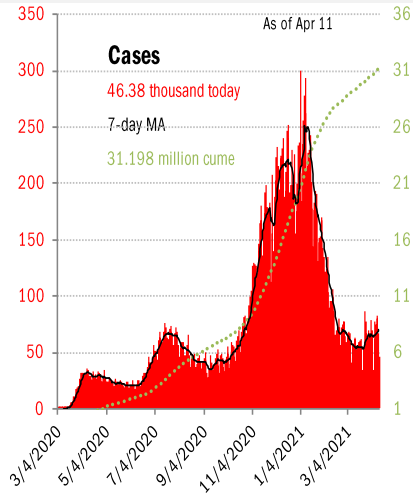
As of Apr 11

\* 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

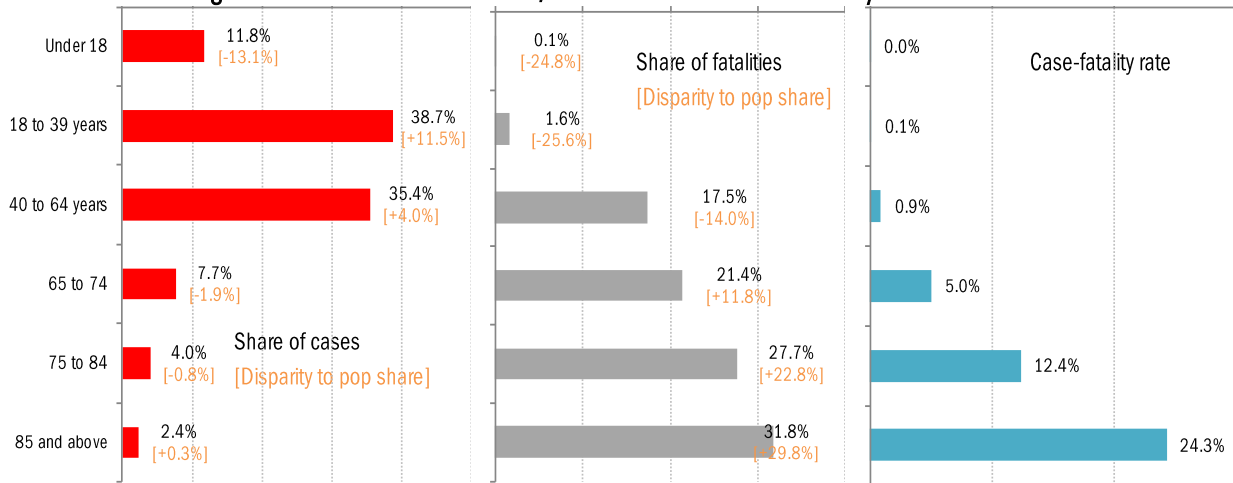
National and state-by-state data do not line up because of different sources



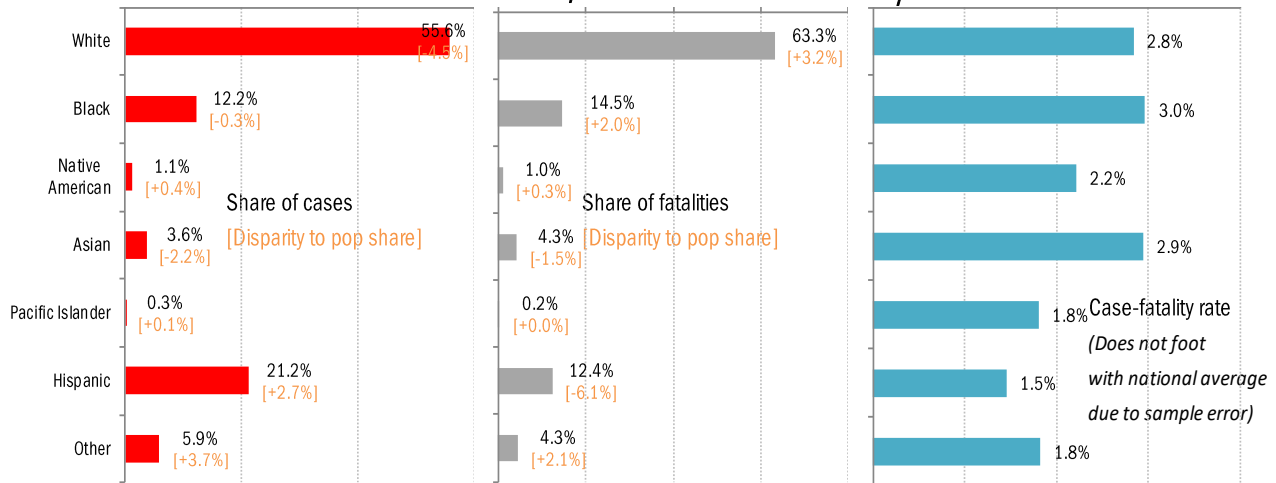
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

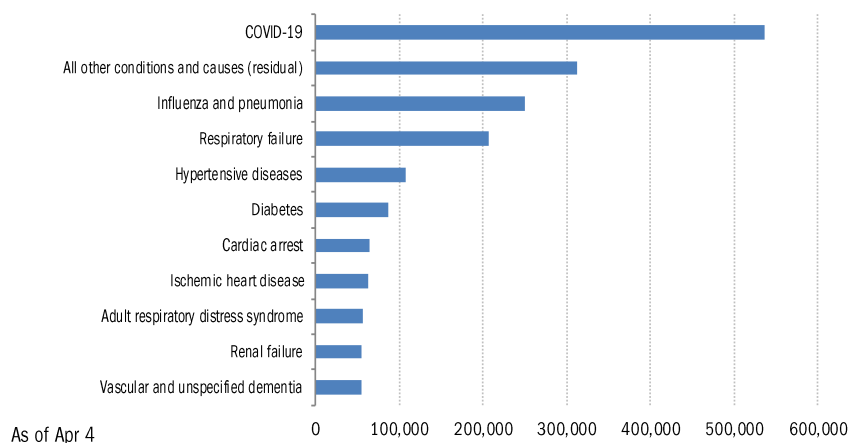


## Racial distribution of US cases, fatalities and case-fatality rates



## 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

[Vaccinated Mothers Are Trying to Give Babies Antibodies via Breast Milk](#)

Heather Murphy  
*New York Times*  
April 8, 2021

[Education Tragedy in Los Angeles](#)

*Wall Street Journal*  
April 11, 2021

[Evidence for increased breakthrough rates of SARS-CoV-2 variants of concern in BNT162b2 mRNA vaccinated individuals](#)

Talia Kustin  
*medRxiv*  
April 9, 2021

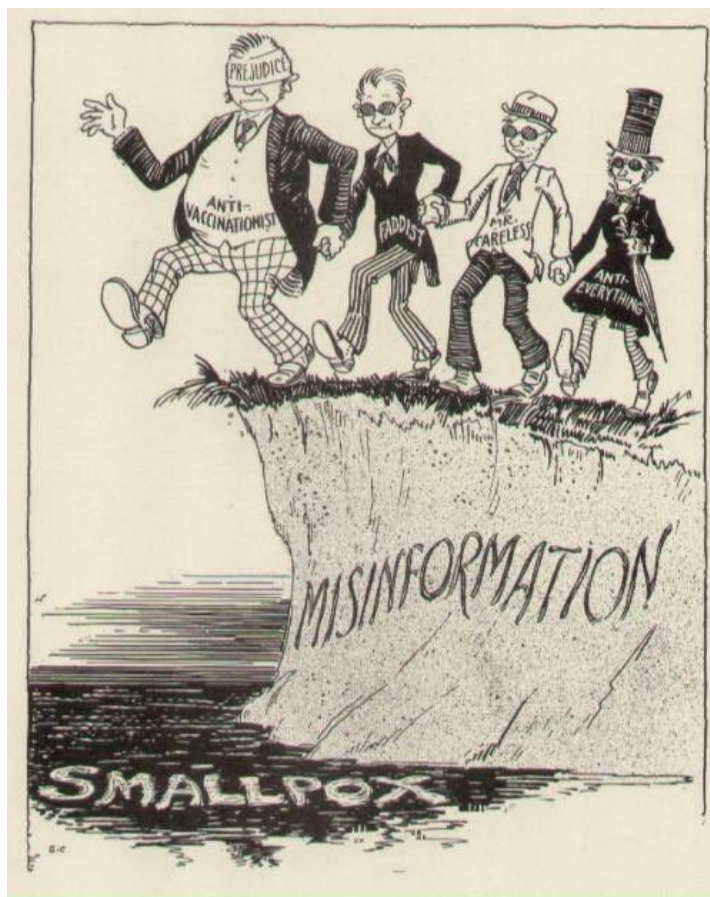
[Official: Chinese vaccines' effectiveness low](#)

Joe McDonald and Huizhong Wu  
*Associated Press*  
April 11, 2021

[South African variant may evade protection from Pfizer vaccine, Israeli study says](#)

Maayan Lubell  
*Reuters*  
April 11, 2020

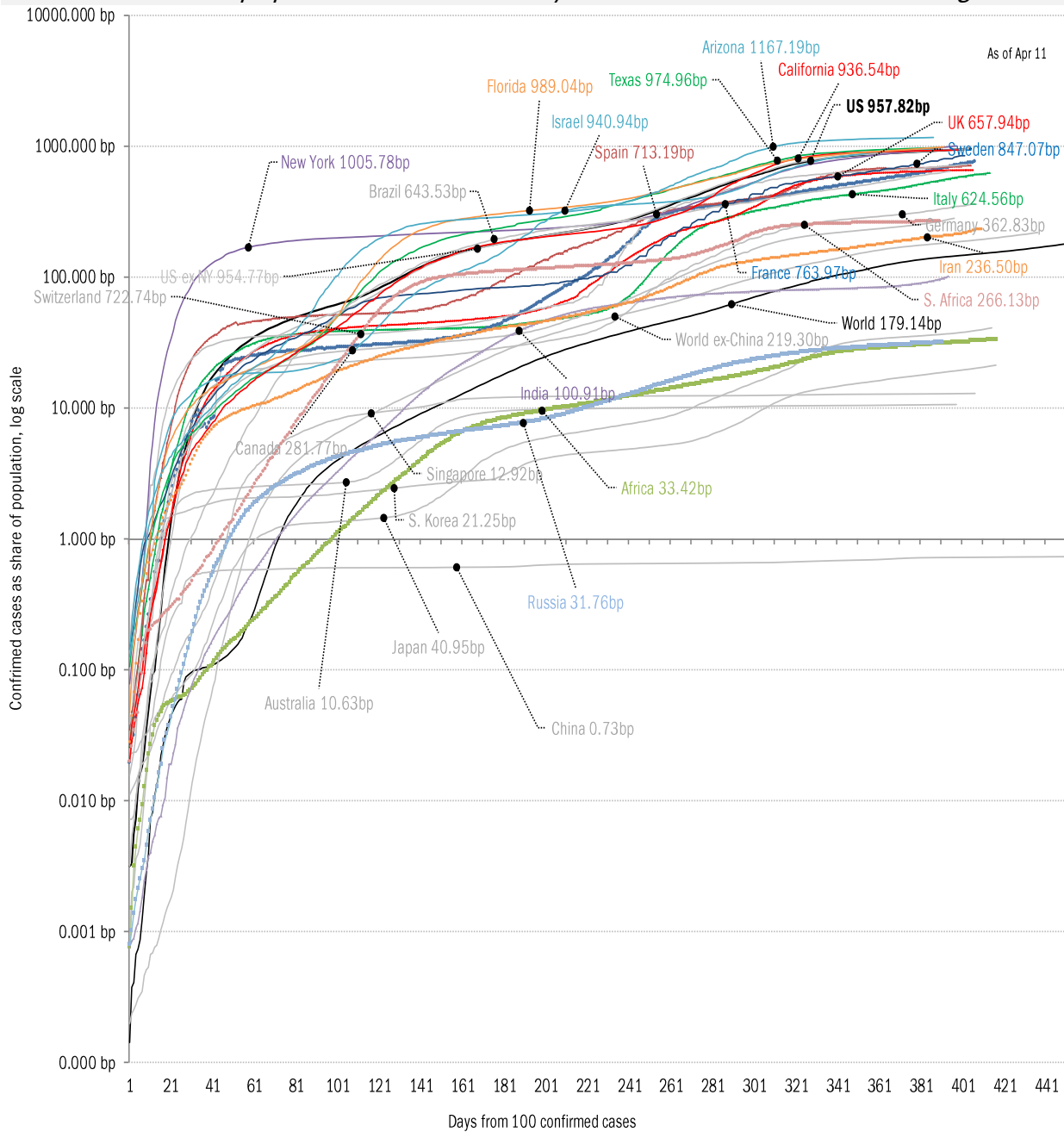
## Meme of day



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



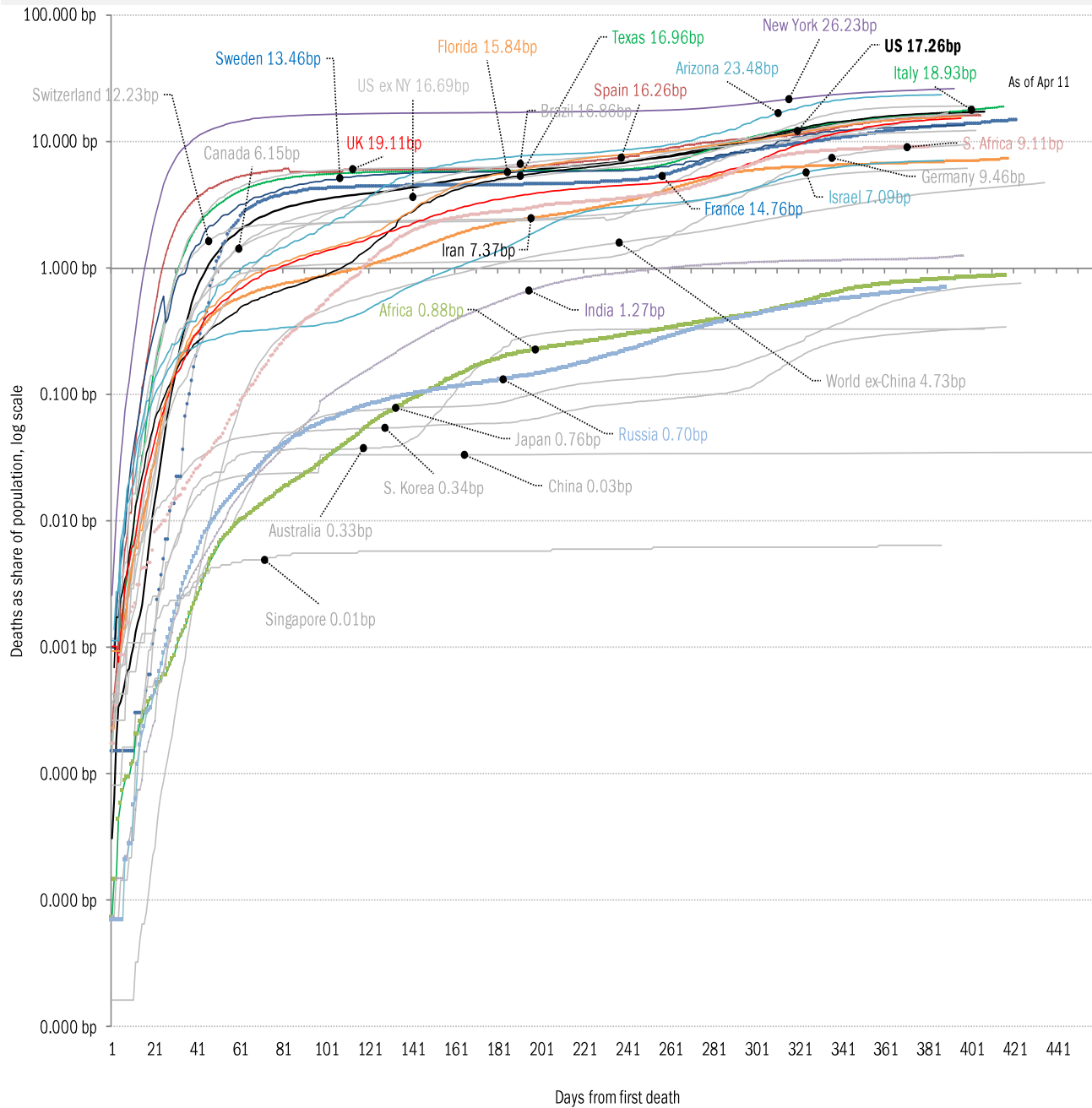
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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

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

## Share of deceased population from day of first fatality



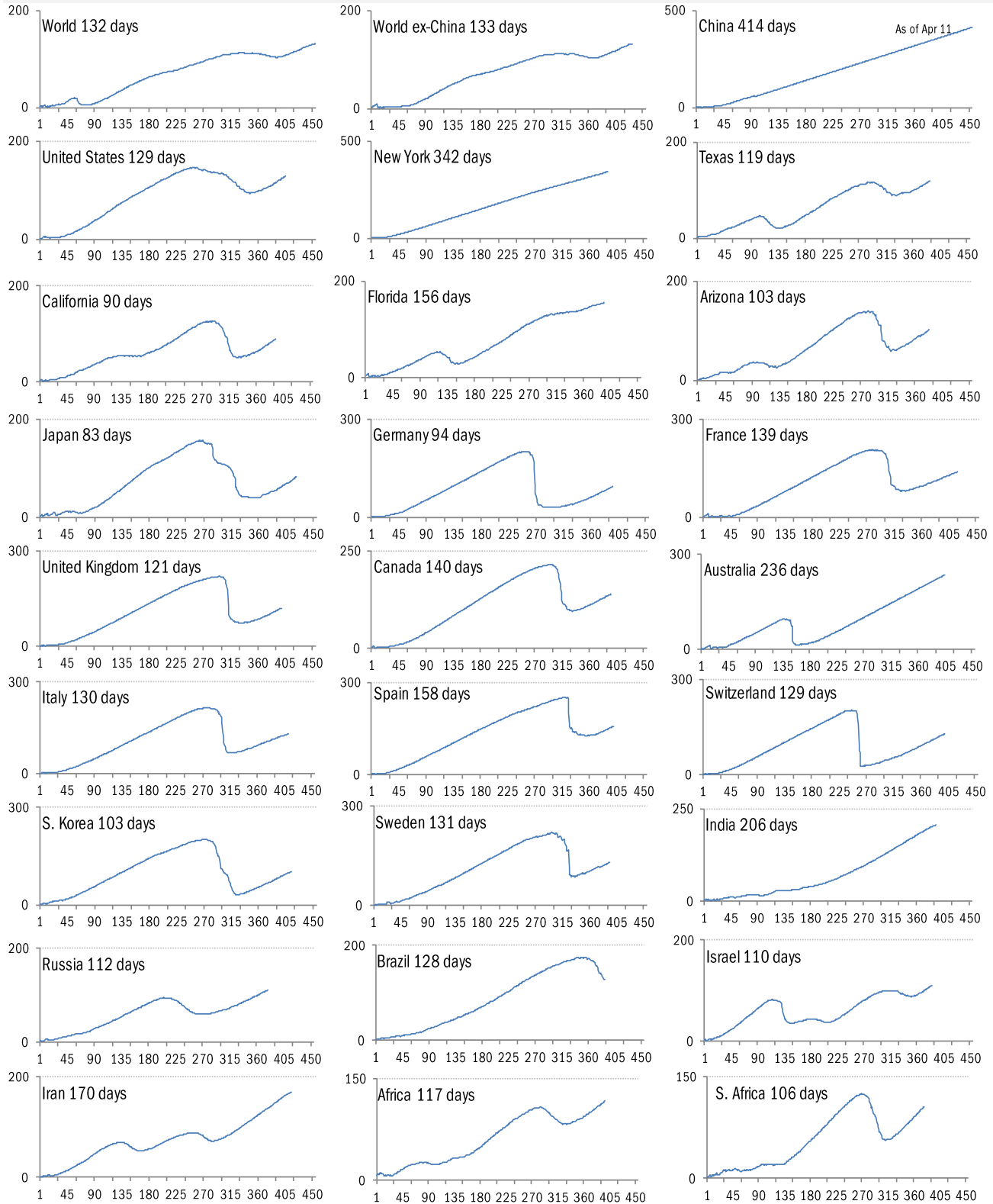
Source: [Johns Hopkins](#), TrendMacro calculations



# "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

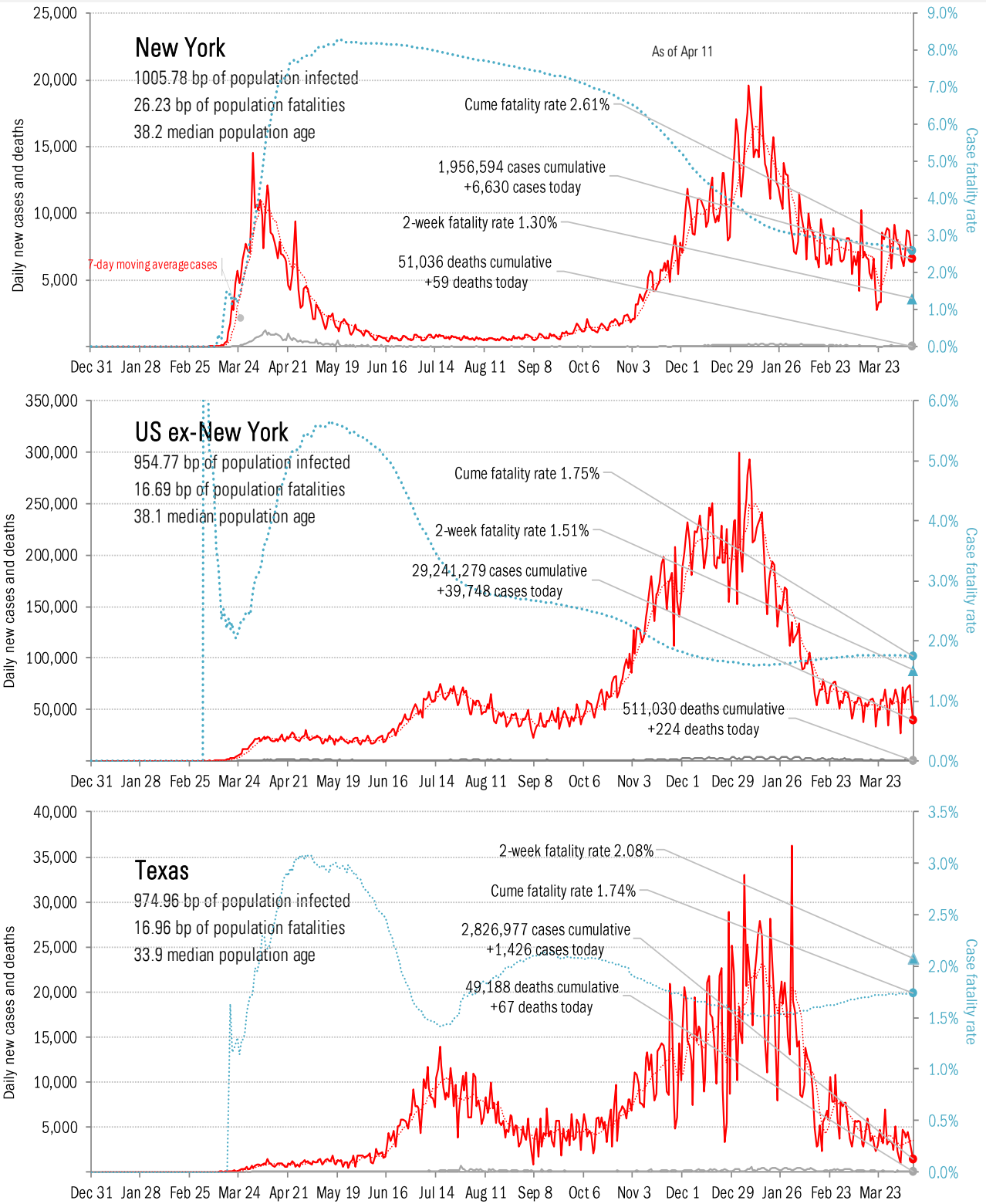
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



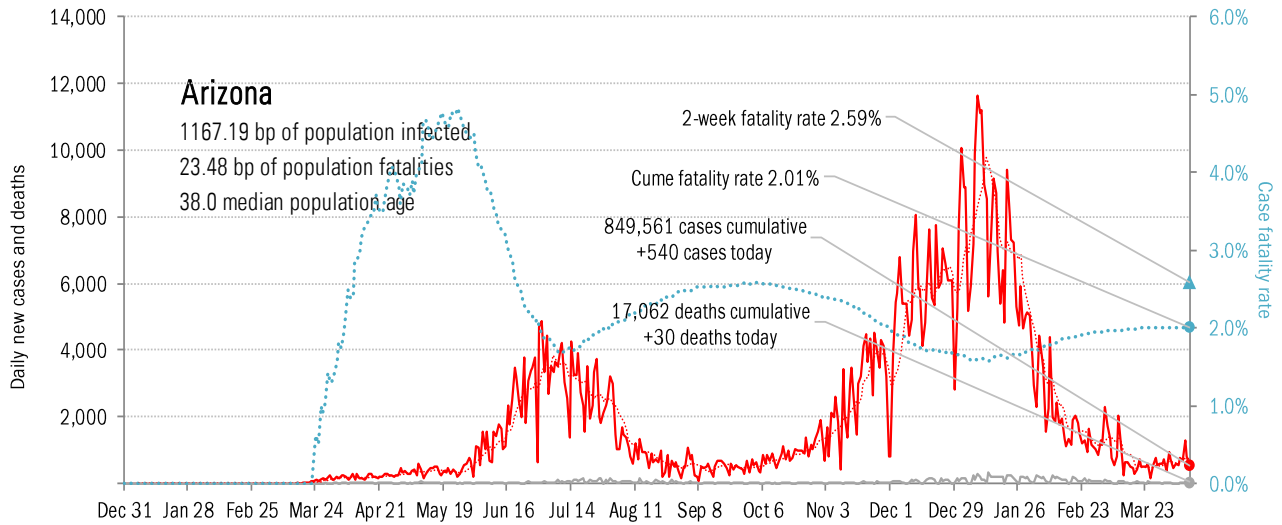
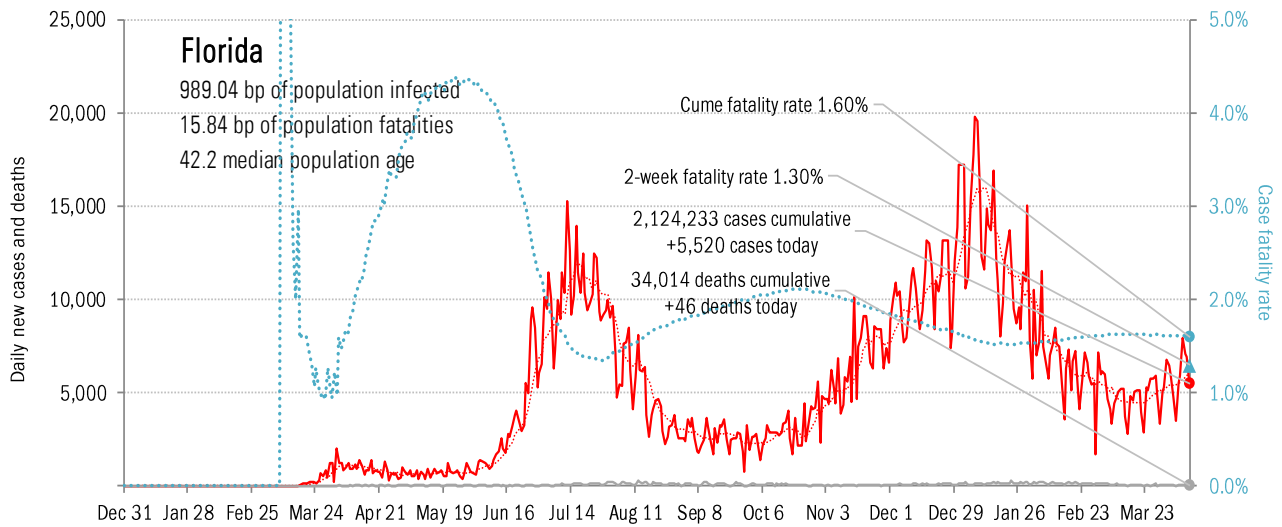
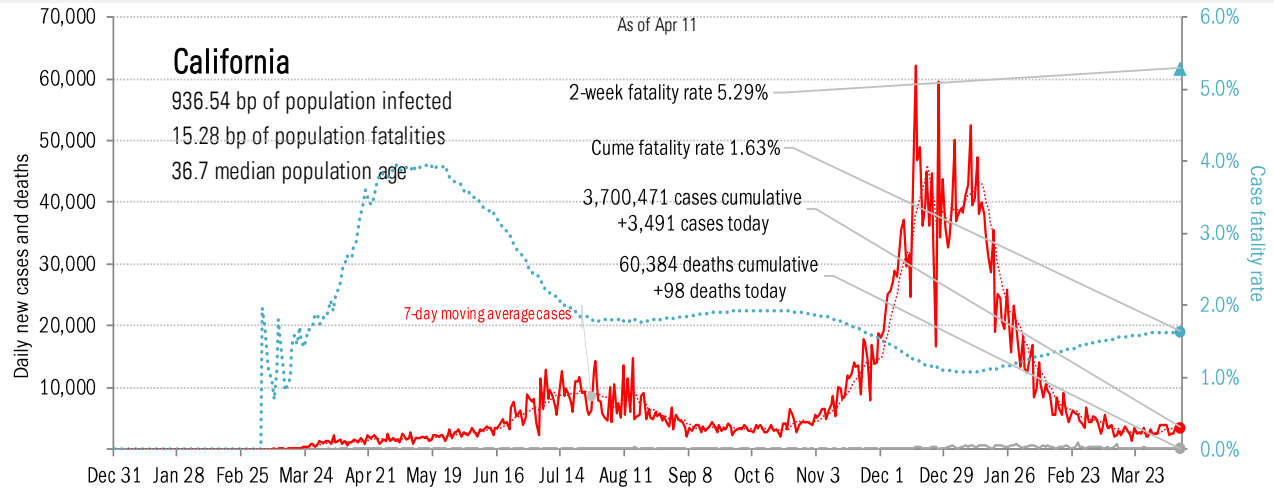
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



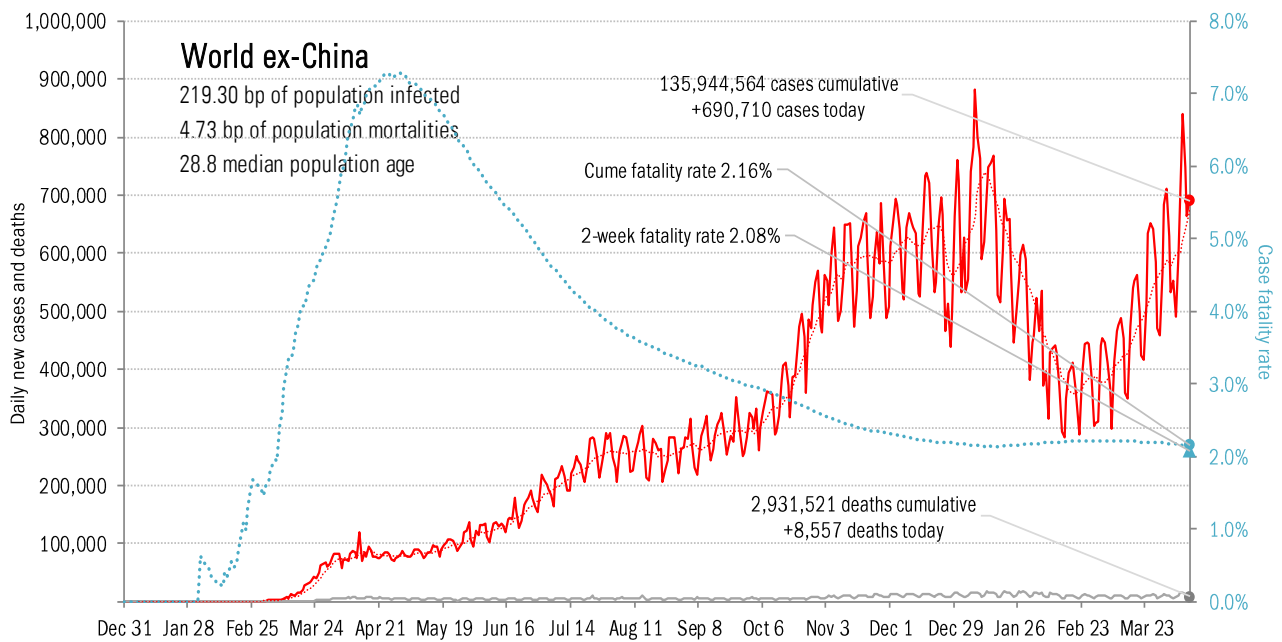
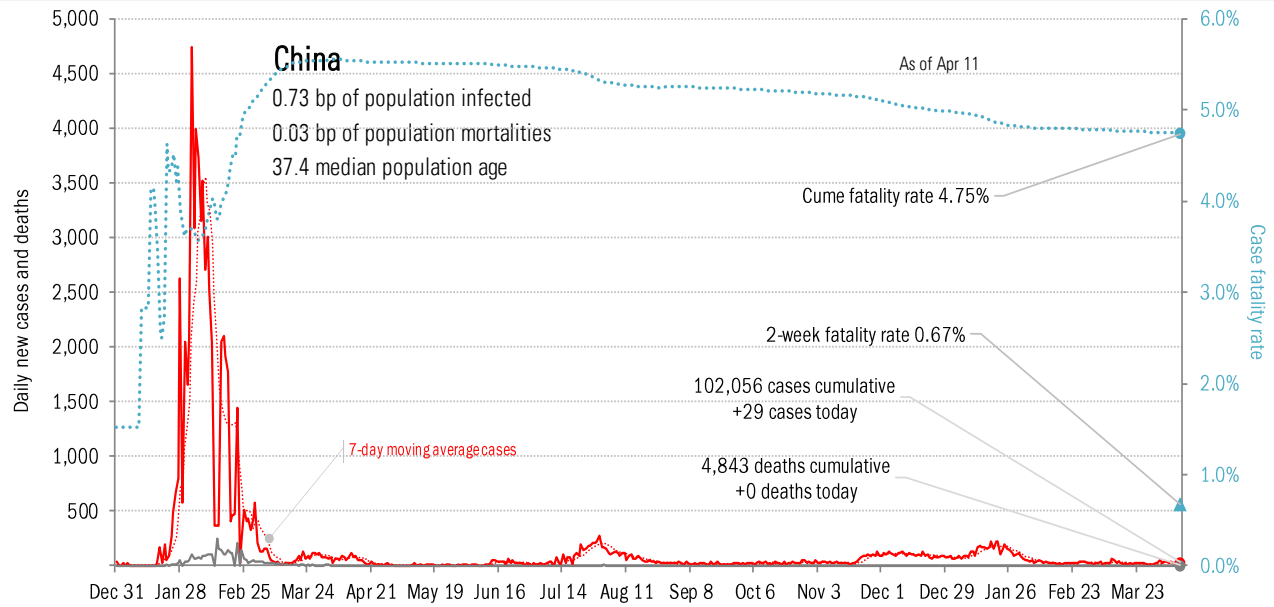
Source: [Johns Hopkins](#), TrendMacro calculations

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



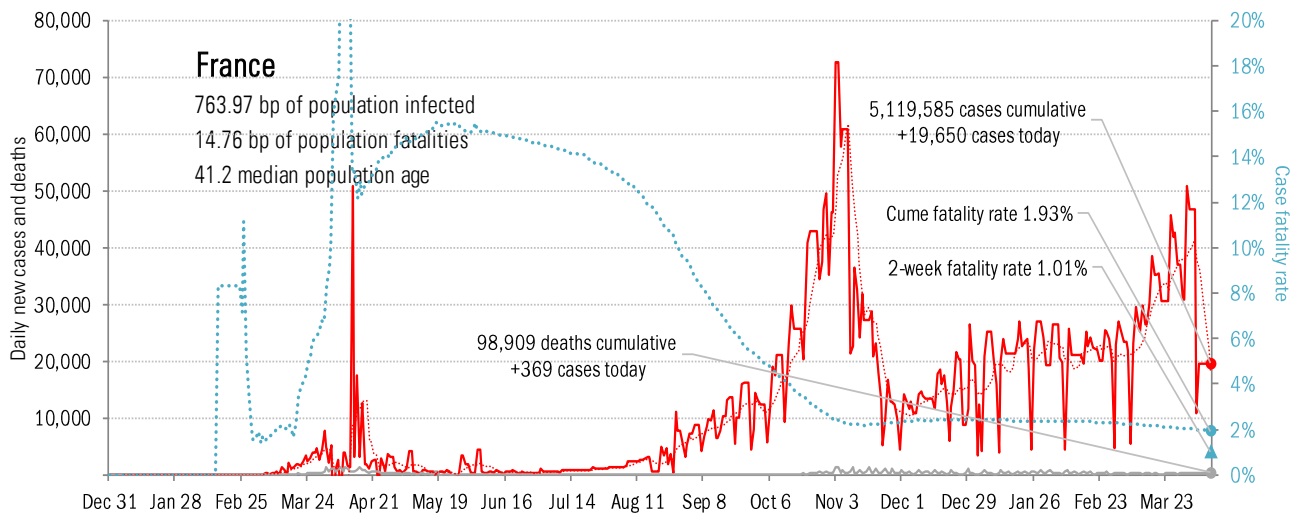
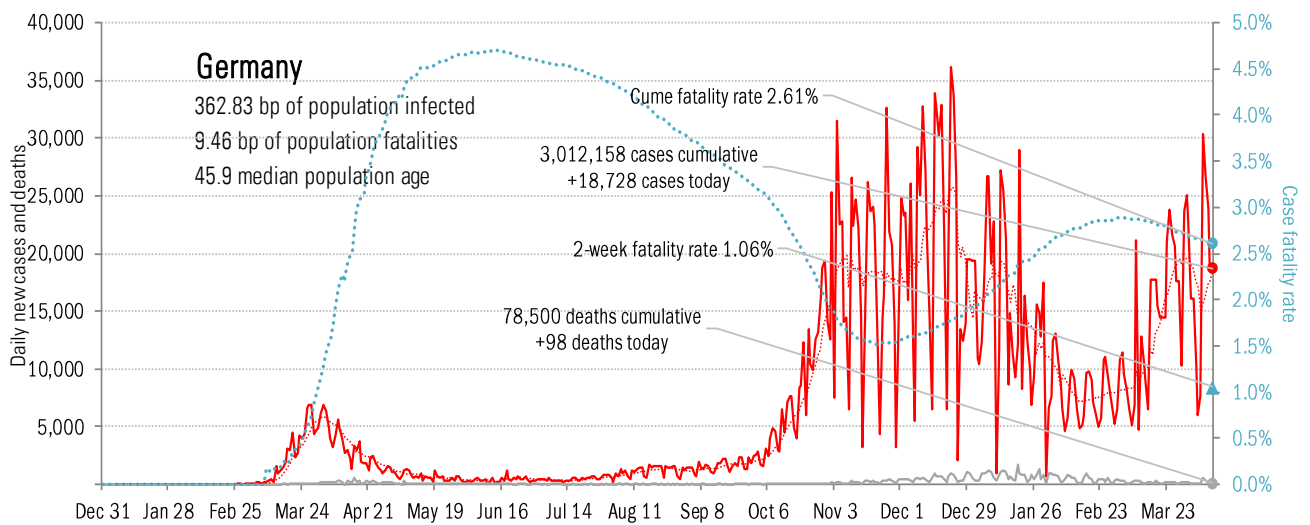
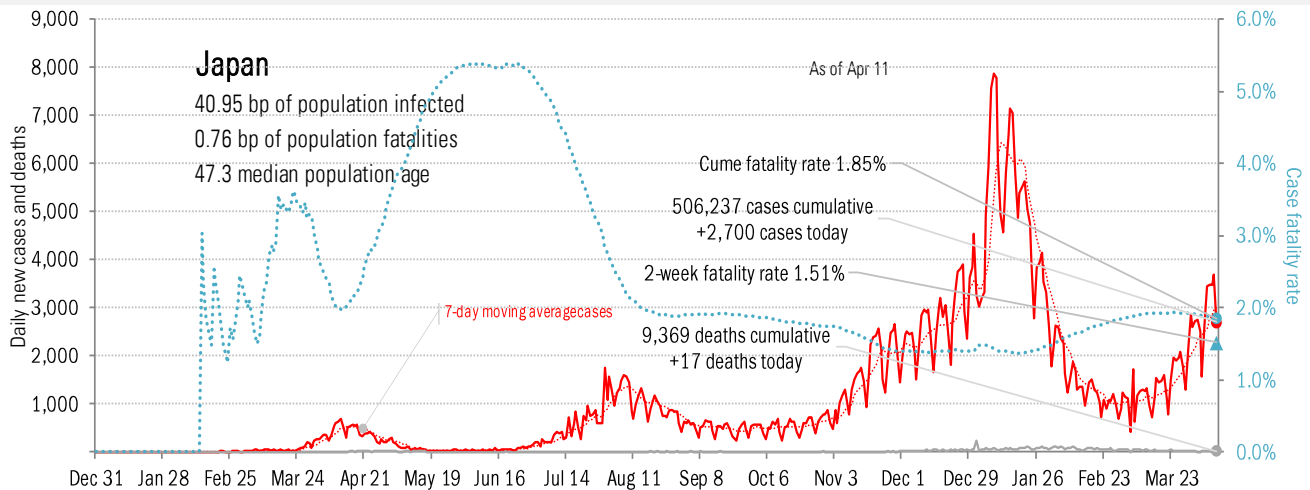
Source: [Johns Hopkins](#), TrendMacro calculations

# Patient zero... and then everyone else



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

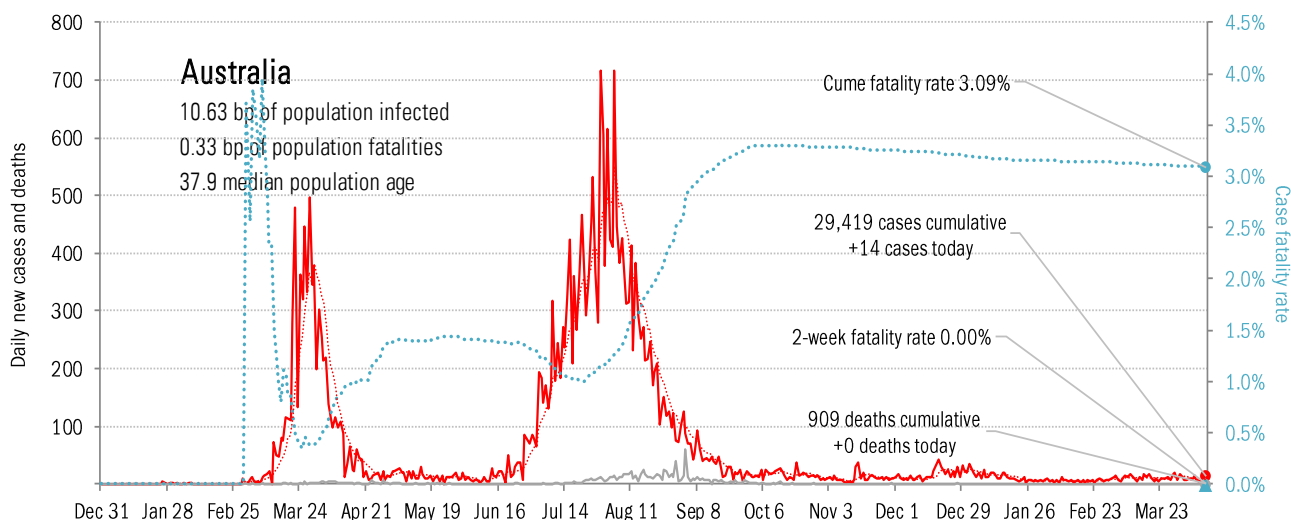
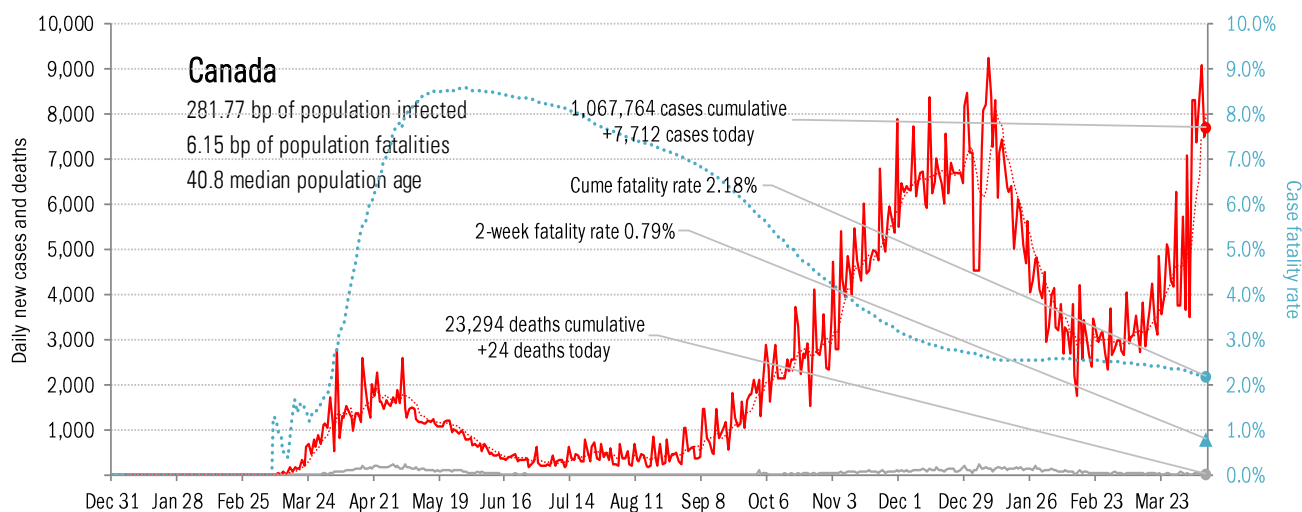
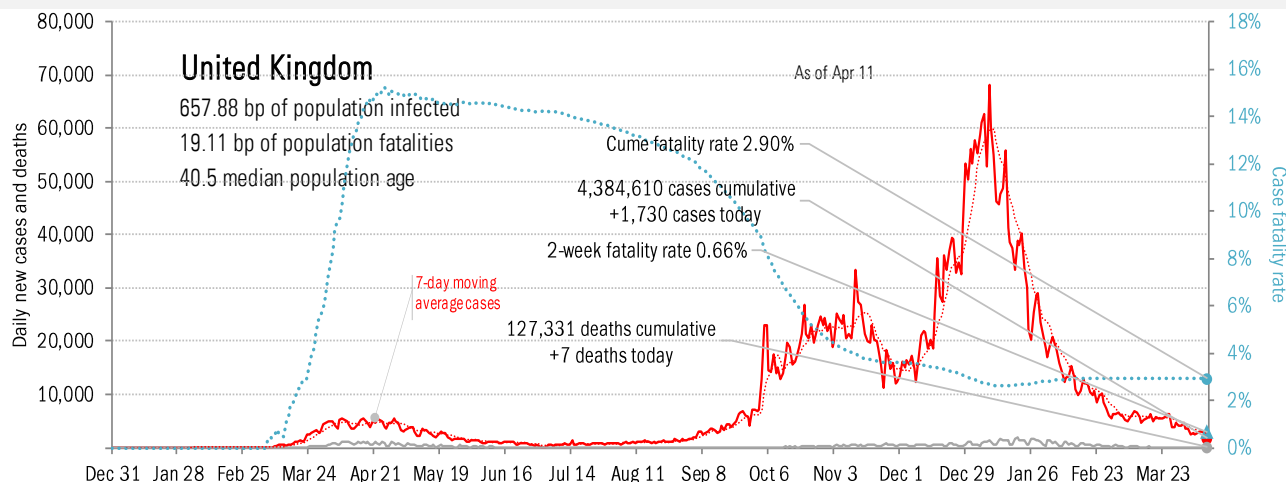
# Impact in the largest economies



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

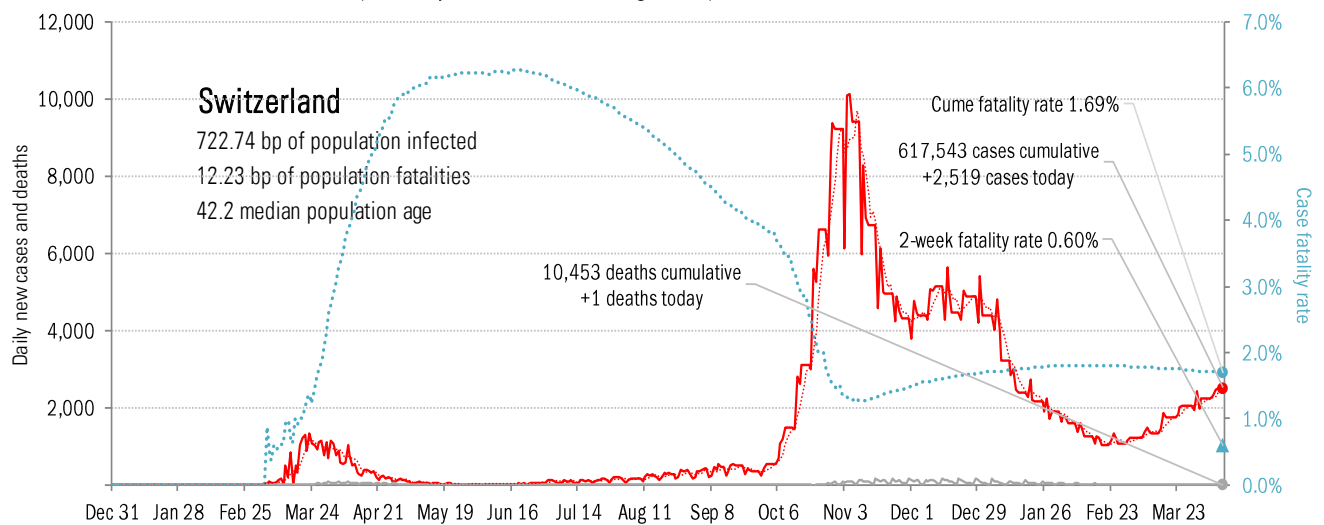
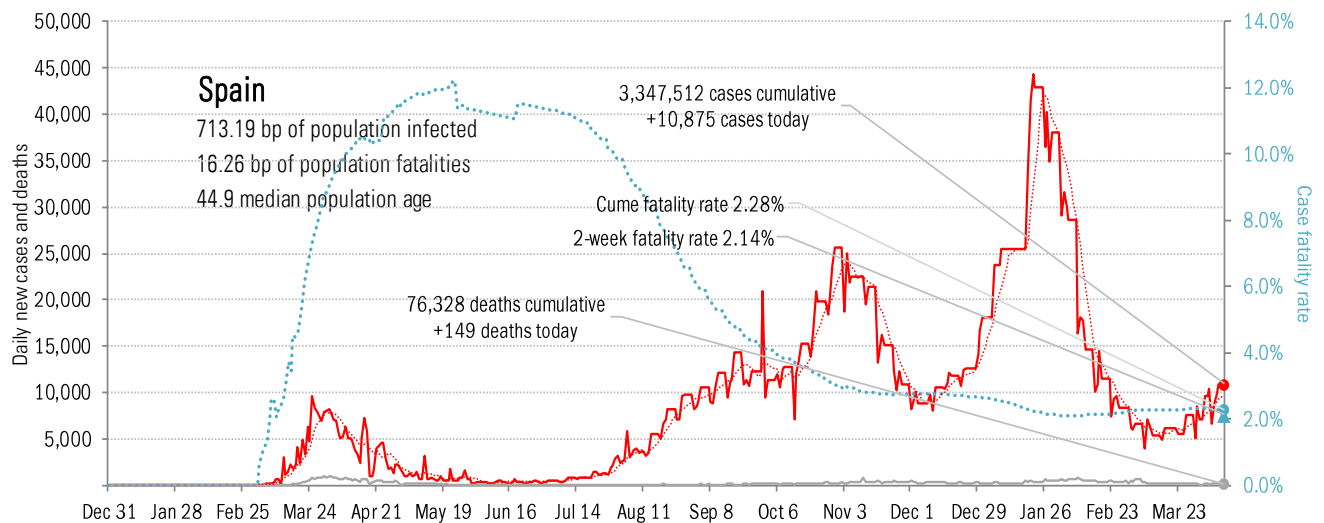
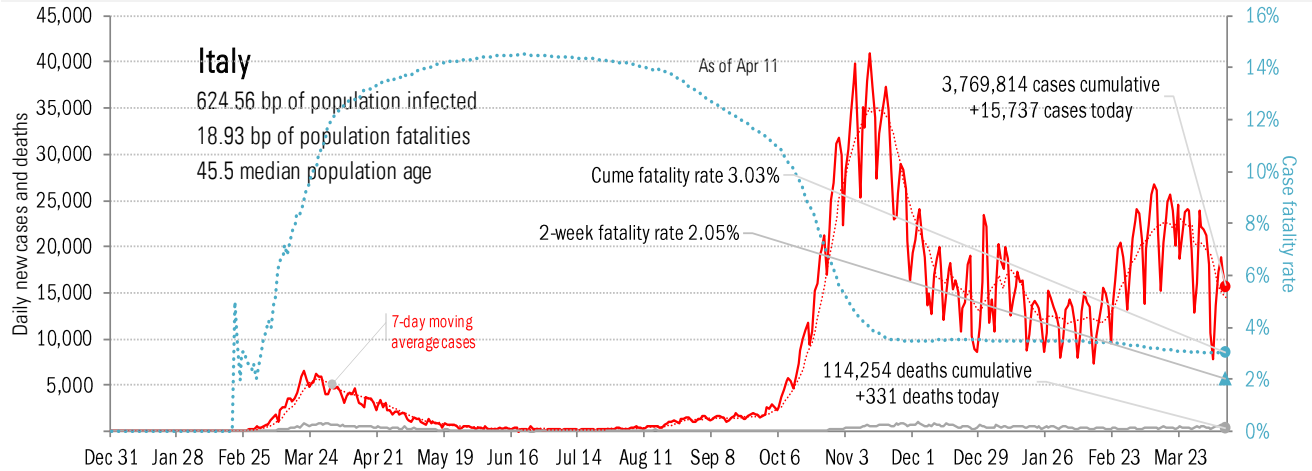


# Impact in The Anglosphere



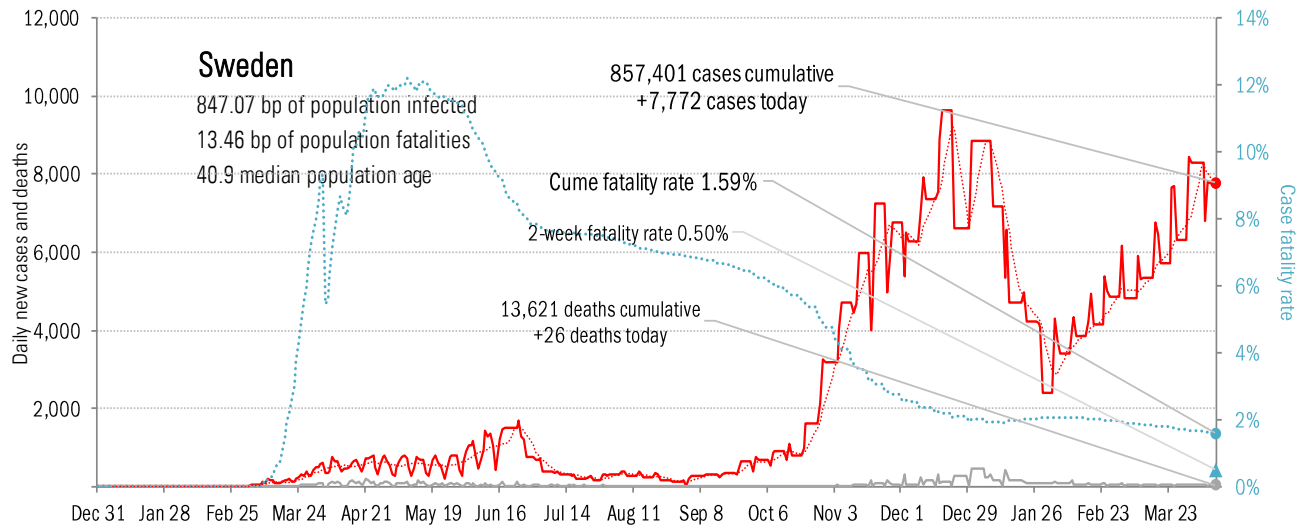
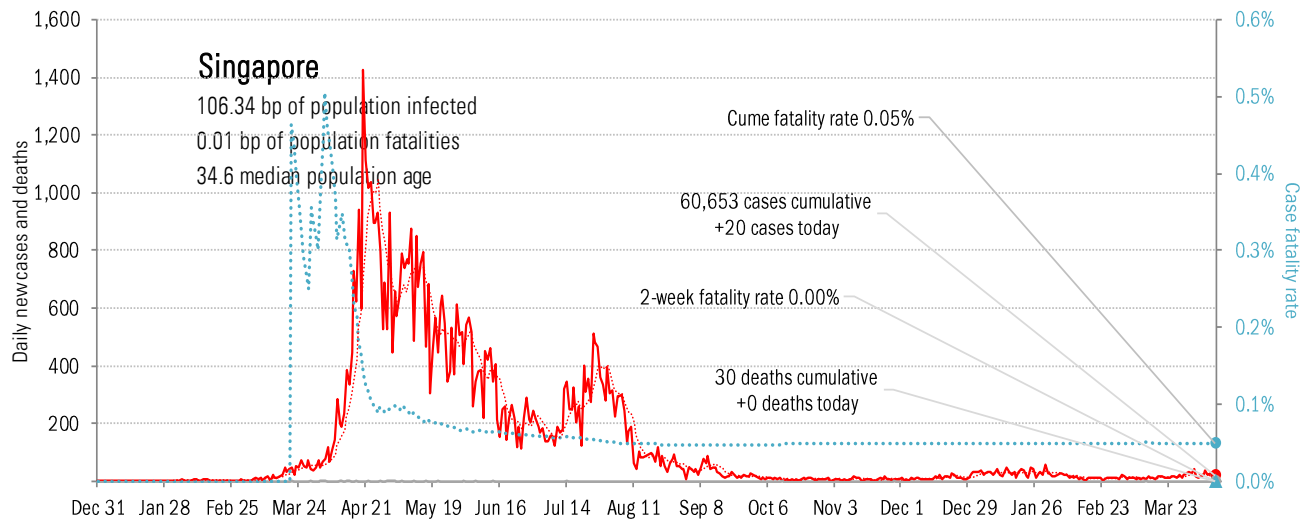
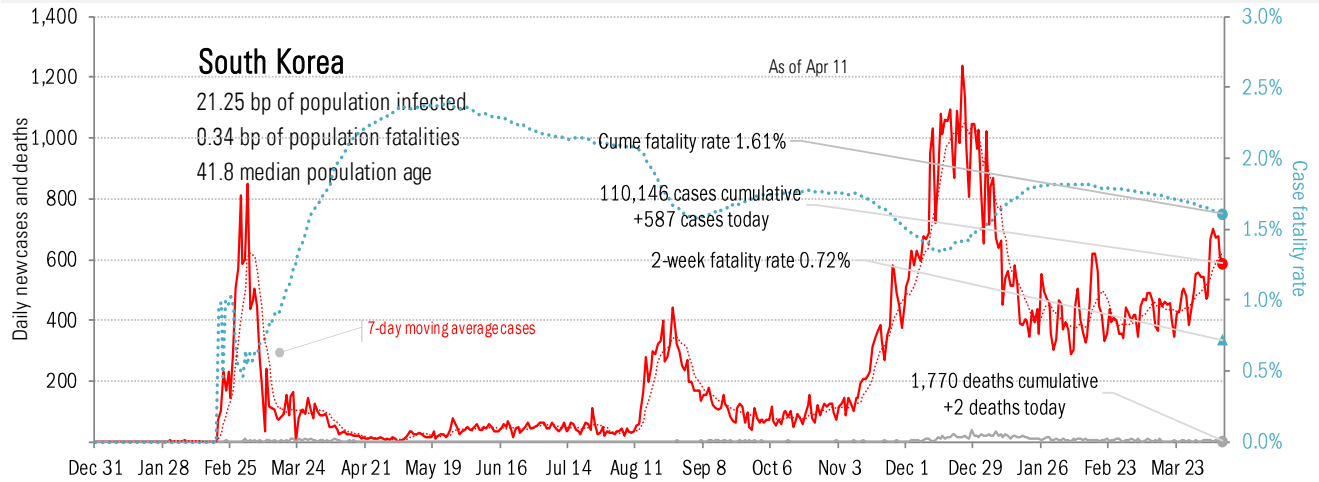
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in continental Europe



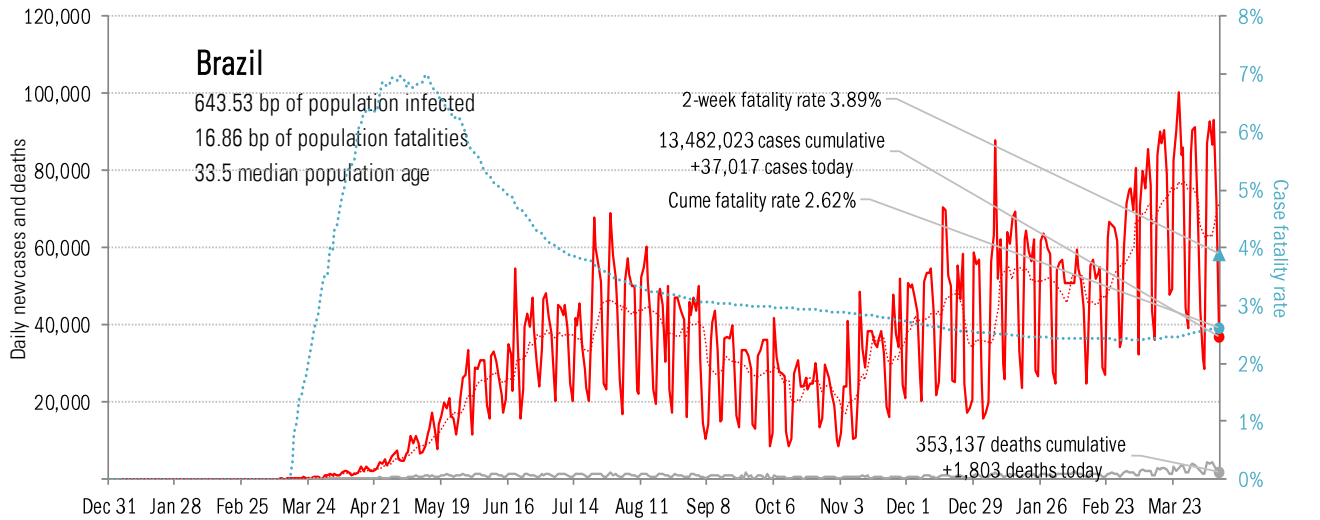
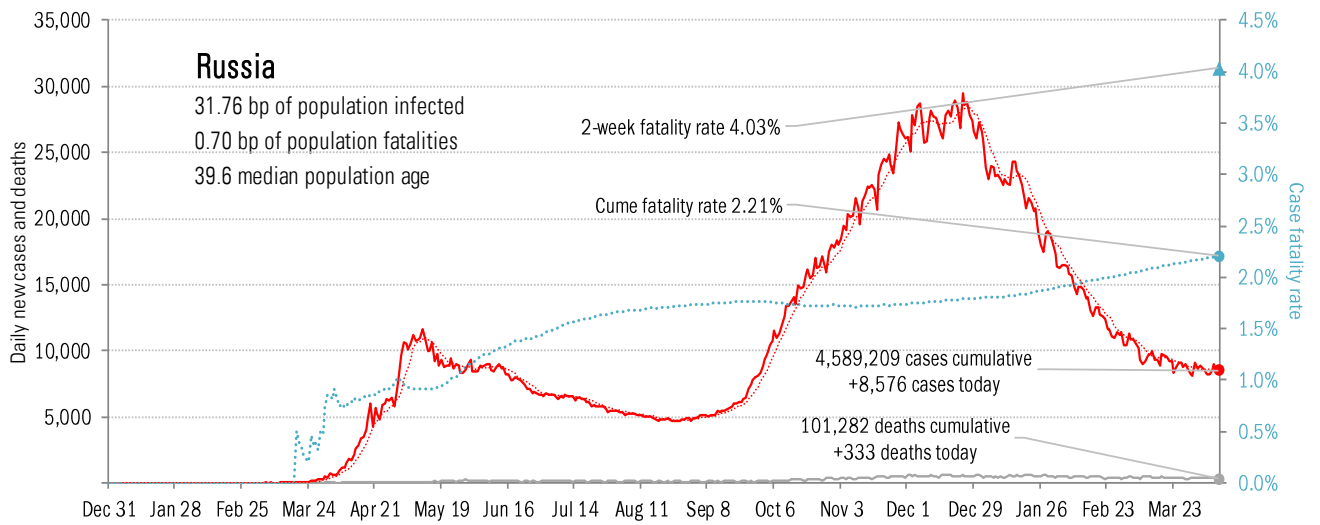
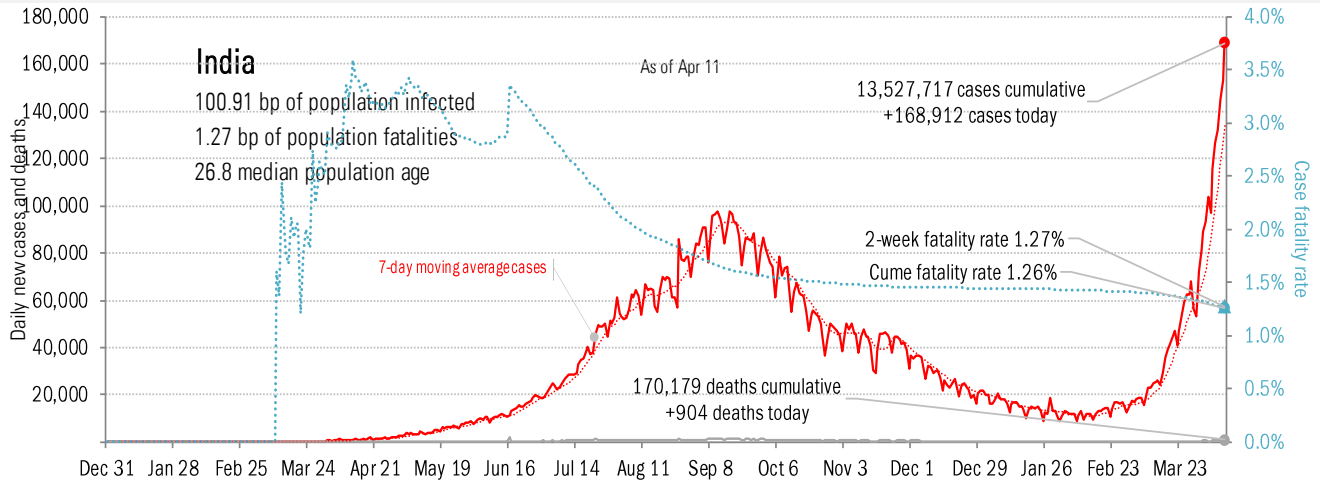
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



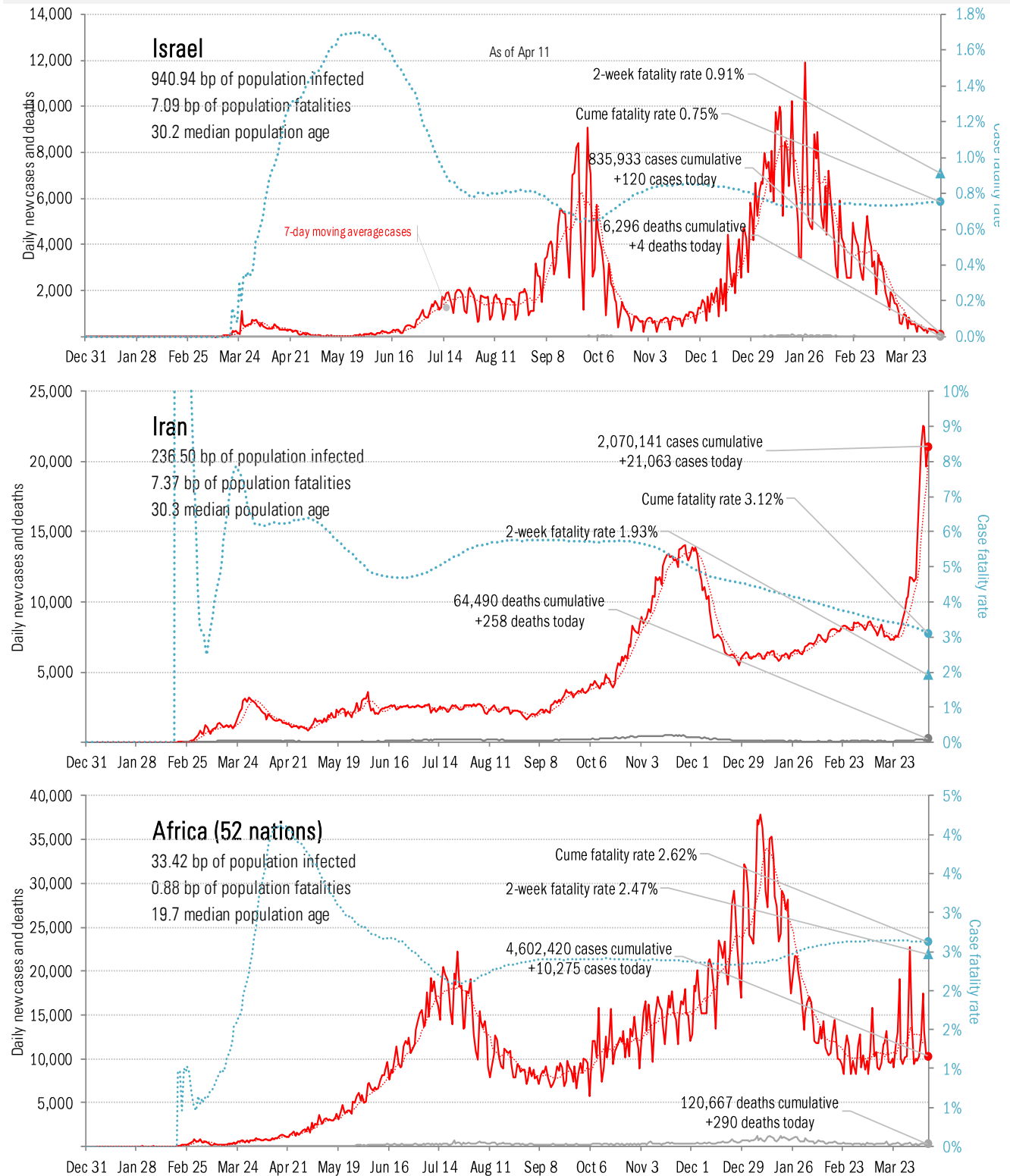
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



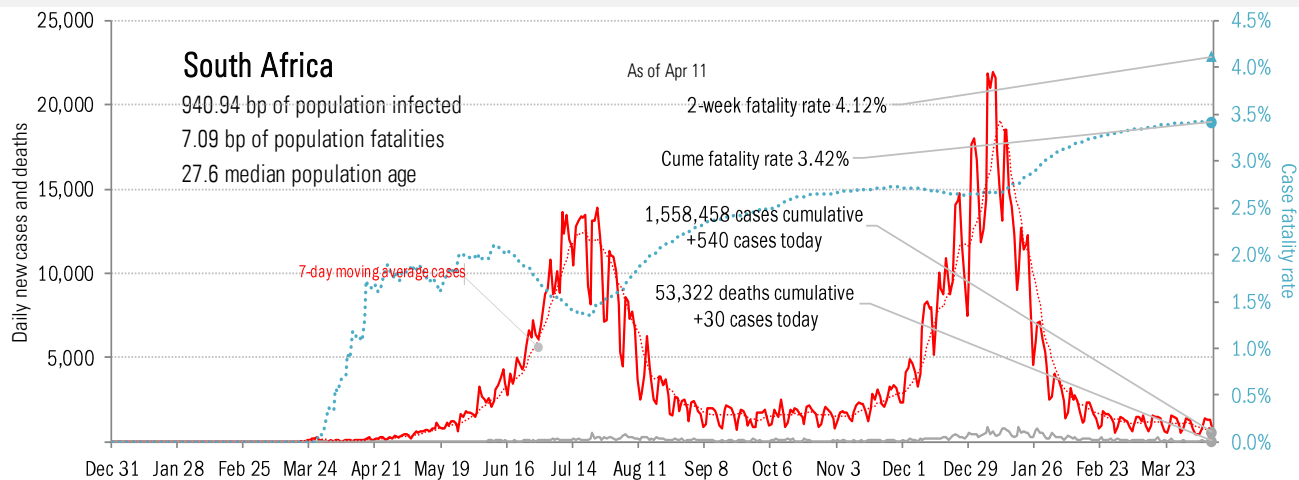
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

## Impact in Africa, continued



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