

## Data Insights: Covid-2019 Monitor

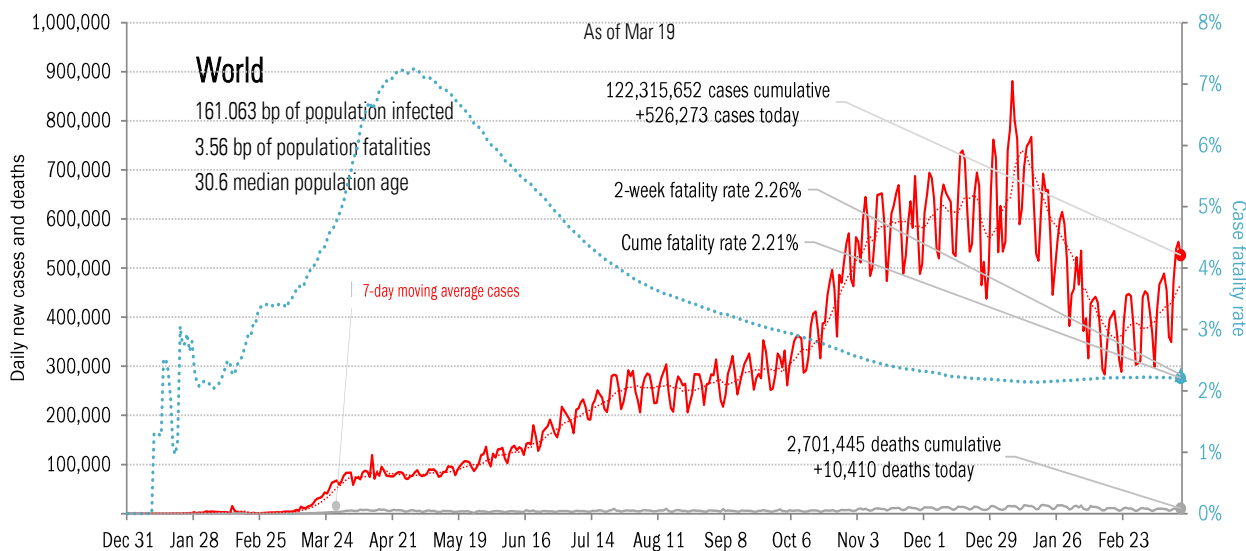
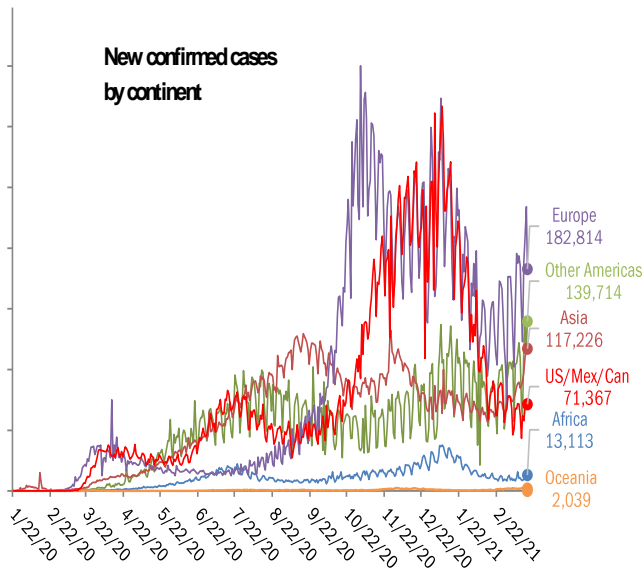
Saturday, March 20, 2021

### The global scorecard

#### The worst ten countries

New cases		New Deaths	
Brazil	+90,570	Brazil	+2,815
United States	+61,413	United States	+1,445
India	+40,953	Mexico	+613
Poland	+25,996	Russia	+438
Italy	+25,707	Poland	+419
Turkey	+21,030	Italy	+386
Peru	+16,047	Peru	+374
Ukraine	+15,937	South Africa	+311
Germany	+15,476	Ukraine	+267
Hungary	+10,759	Czechia	+214
<b>+323,888</b>		<b>+7,282</b>	
World	+526,273	World	+10,410
Top ten	62%	Top ten	70%

#### 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

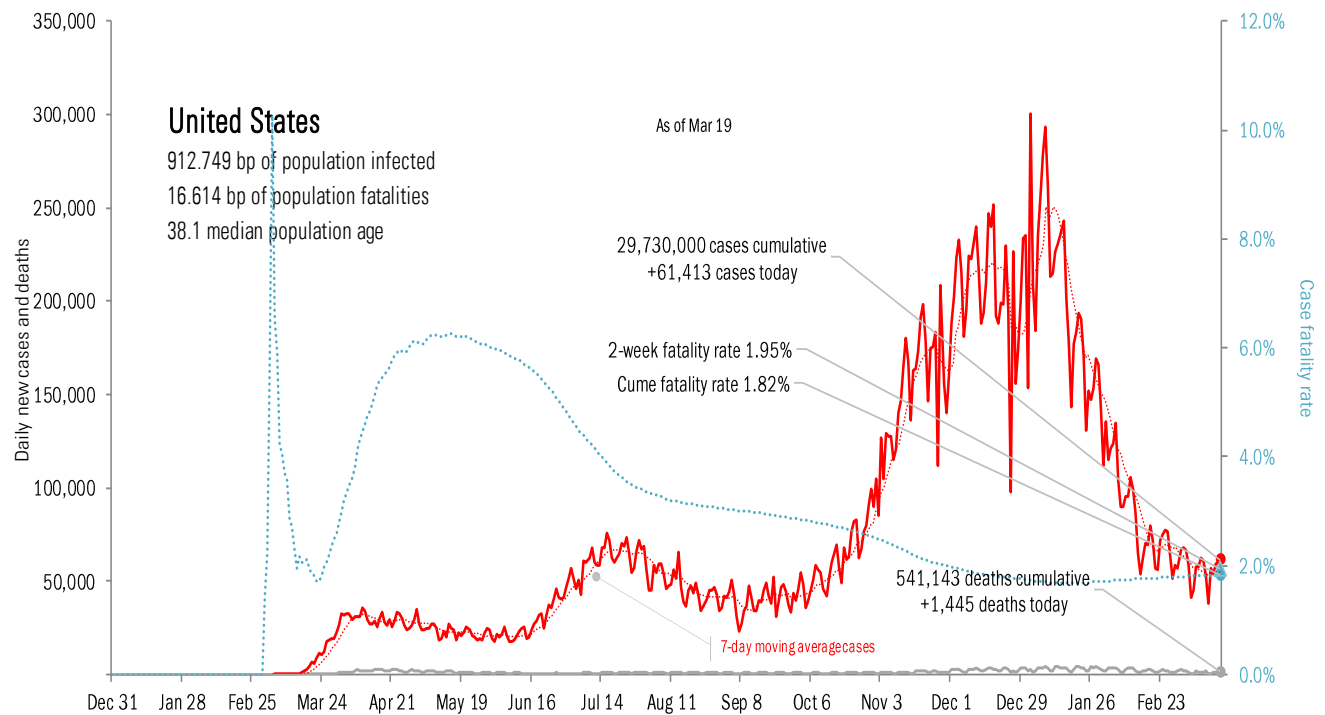
## The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
FL	+5,140		CH	+348		GA	+78		CA	3,637,726		CA	57,350		TX	219,466		RI	94%	NY	19%
NY	+5,077		KY	+191		NY	+61		TX	2,749,624		NY	49,335		CA	217,410		MA	81%	GA	18%
NJ	+4,551		TX	+173		CH	+49		FL	1,999,257		TX	47,198		FL	144,600		MD	80%	TX	18%
MI	+4,417		CA	+150		MD	+26		NY	1,772,367		FL	32,651		NY	105,962		CT	79%	MD	18%
TX	+3,930		NY	+73		PA	+26		IL	1,218,387		PA	24,758		GA	91,343		MO	78%	MS	14%
PA	+3,471		FL	+53		MN	+23		GA	1,042,417		NJ	24,103		CH	72,996		SC	78%	CA	14%
CA	+2,919		AZ	+46		NJ	+19		CH	997,336		IL	23,304		PA	69,826		PA	78%	DC	13%
IL	+2,395		GA	+44		TN	+19		PA	983,109		GA	18,464		KY	66,137		GA	78%	FL	13%
MA	+2,163		MA	+44		MI	+18		NC	893,229		CH	18,339		IL	65,862		FL	78%	RI	13%
TN	+1,997		PA	+36		WI	+11		NJ	857,739		MI	16,857		AZ	57,125		DC	78%	MA	13%
+36,060			+1,158			+330			16,151,191			312,359			1,110,727						
All states	+61,413		+1,445			+101			All states	29,730,000		541,143			1,975,822			All states	70%	67%	
Top ten	59%		80%			327%			Top ten	54%		58%			56%			Median	71%	9%	

Some states not reporting

## Five most improved US states

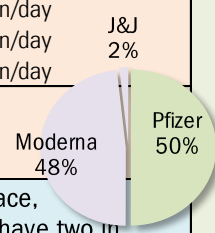
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
GA	-667	KY	-257	TX	-63	RI	+96 bp
CA	-568	VA	-118	IN	-30	ME	+87 bp
CH	-553	CA	-63	NM	-27	SD	+73 bp
VA	-450	FL	-41	KY	-21	IA	+72 bp
NY	-438	TX	-25	FL	-20	NM	+57 bp



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	Share pop full immunization
161.77 million doses distributed	+3.19 million/day	United States 12.5%
123.64 million doses administered	+2.68 million/day	United Kingdom 3.0%
80.25 million persons partially immunized	+1.79 million/day	France 3.4%
43.84 million persons fully immunized	+1.00 million/day	Spain 4.0%
7.63 million shots long-term care residents/staff	+0.02 million/day	Germany 3.8%
		Italy 3.9%
<b>76.4% of distributed doses administered</b>		Australia 0.5%
<b>24.0% of US pop partial</b>	<b>13.1% full immunity</b>	Israel 52.0%
<b>100% of LTC partial</b>	<b>62.0% full immunity</b>	Canada 1.7%
		Japan 0.0%
		Africa 0.2%
		India 0.5%
		Brazil 1.6%



At today's dosing pace,  
every American will have two in  
**198 days**  
by Oct 3, 2021  
US will achieve herd immunity in  
**79 days**  
by Jun 5, 2021

State	
Doses distributed as % population	Best
Partial immunity as % population	Middle
Full immunity as % population	Worst

AK
70.4%
29.6%
19.2%

ME
49.6%
27.8%
15.2%

WI
44.3%
24.8%
14.3%

VT	NH
53.5%	46.2%
26.8%	26.5%
14.1%	12.7%

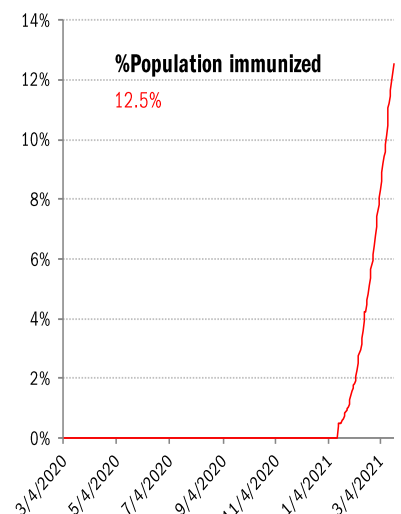
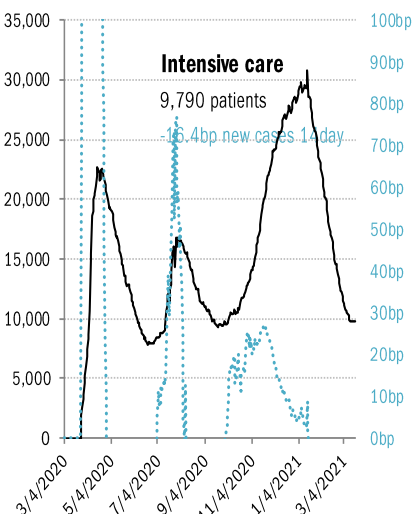
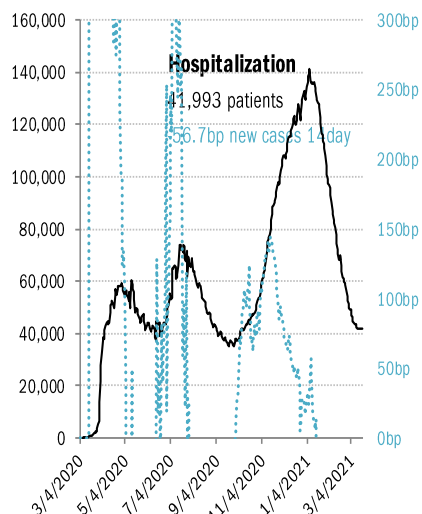
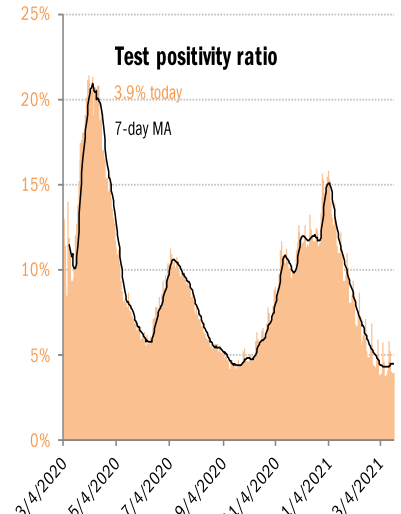
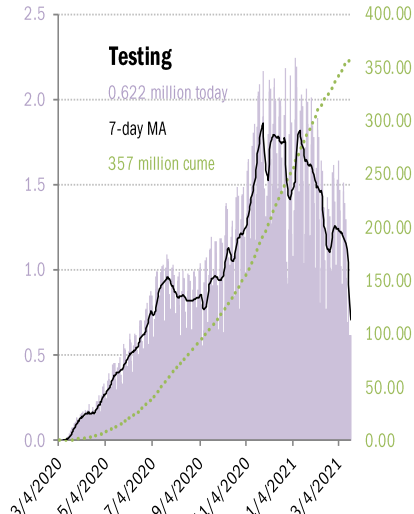
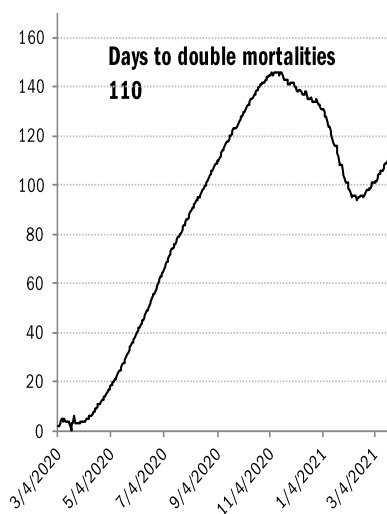
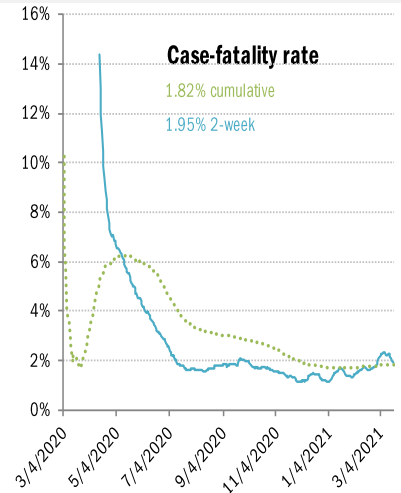
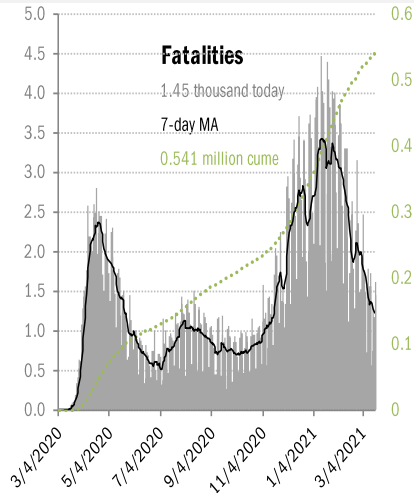
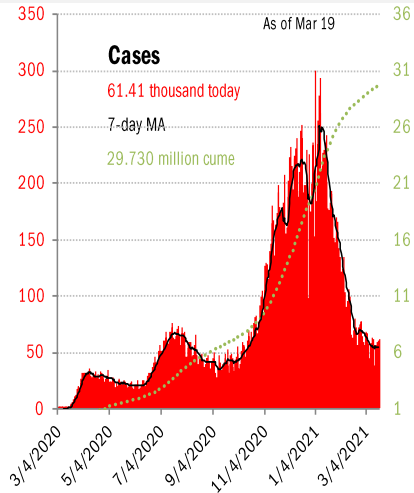
<b>WA</b> 46.7% 23.8% 13.6%	<b>ID</b> 42.5% 20.7% 12.9%	<b>MT</b> 50.3% 25.2% 15.0%	<b>ND</b> 51.3% 27.5% 15.9%	<b>MN</b> 45.2% 25.5% 14.2%	<b>IL</b> 45.9% 24.0% 13.2%	<b>MI</b> 44.4% 22.7% 12.8%	<b>NY</b> 48.0% 24.2% 11.9%	<b>MA</b> 48.1% 27.4% 14.4%		
<b>OR</b> 44.7% 22.6% 13.0%	<b>NV</b> 43.3% 22.4% 12.6%	<b>WY</b> 53.8% 23.2% 14.7%	<b>SD</b> 57.8% 29.0% 17.2%	<b>IA</b> 46.0% 25.2% 14.7%	<b>IN</b> 42.9% 20.9% 13.6%	<b>OH</b> 46.3% 22.6% 13.2%	<b>PA</b> 47.0% 24.3% 12.4%	<b>NJ</b> 46.0% 26.7% 13.8%	<b>CT</b> 52.9% 28.5% 15.7%	<b>RI</b> 48.2% 27.7% 13.1%
<b>CA</b> 46.8% 23.5% 11.8%	<b>UT</b> 40.9% 20.3% 8.9%	<b>CO</b> 46.4% 22.9% 13.6%	<b>NE</b> 48.7% 24.8% 14.8%	<b>MO</b> 46.2% 21.1% 11.4%	<b>KY</b> 45.3% 25.3% 13.2%	<b>WV</b> 49.5% 25.2% 15.4%	<b>VA</b> 43.9% 24.2% 13.6%	<b>MD</b> 46.9% 24.4% 13.4%	<b>DE</b> 49.1% 23.8% 13.1%	
<b>AZ</b> 47.3% 23.6% 13.5%	<b>NM</b> 56.1% 31.4% 18.6%	<b>KS</b> 49.6% 23.5% 12.4%	<b>AR</b> 46.6% 21.1% 11.0%	<b>TN</b> 45.0% 19.9% 10.5%	<b>NC</b> 45.4% 23.5% 13.2%	<b>SC</b> 42.9% 21.7% 12.1%	<b>DC</b> 62.8% 19.8% 10.1%			
	<b>OK</b> 56.3% 25.9% 13.9%	<b>LA</b> 45.6% 21.7% 12.7%	<b>MS</b> 46.8% 20.9% 11.6%	<b>AL</b> 43.7% 19.1% 11.2%	<b>GA</b> 42.2% 16.7% 10.2%					
<b>HI</b> 54.1% 26.1% 15.8%	<b>TX</b> 43.4% 20.9% 10.5%					<b>FL</b> 49.6% 22.2% 12.5%	<b>PR</b> 50.9% 16.8% 9.8%			

As of Mar 19

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

# US deep-dive

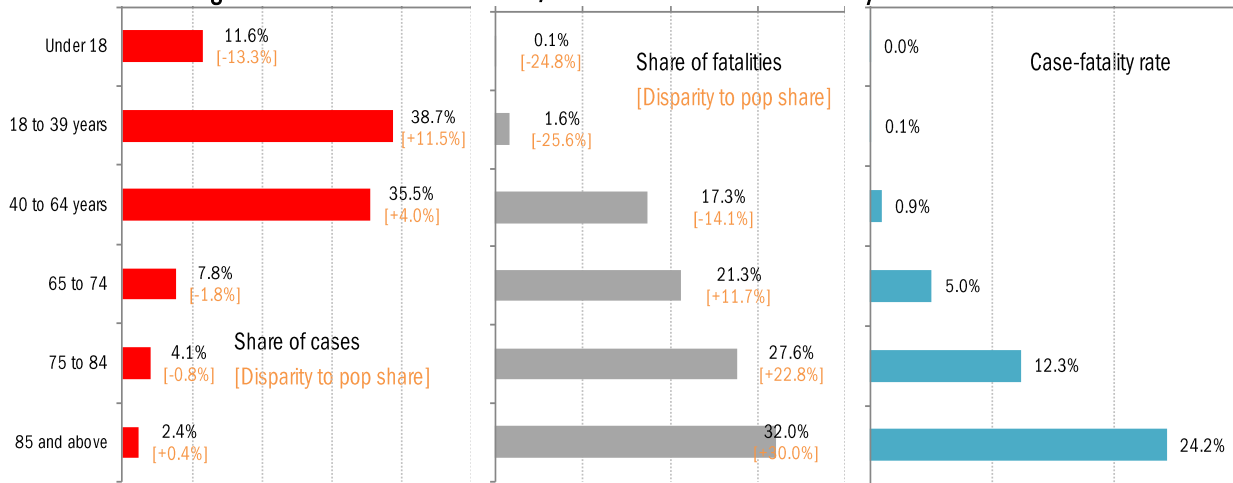
National and state-by-state data do not line up because of different sources



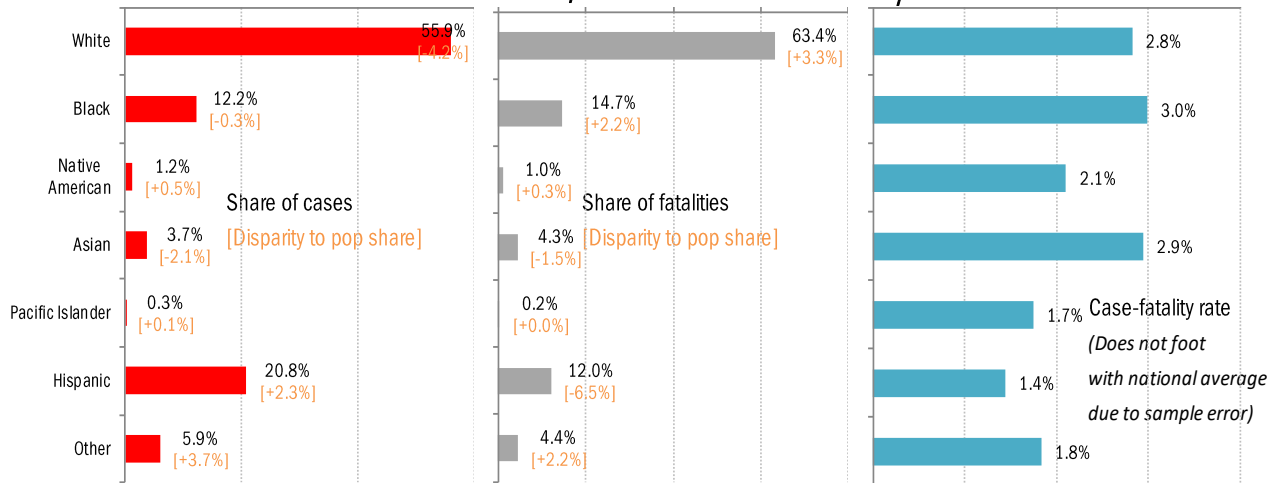
Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

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

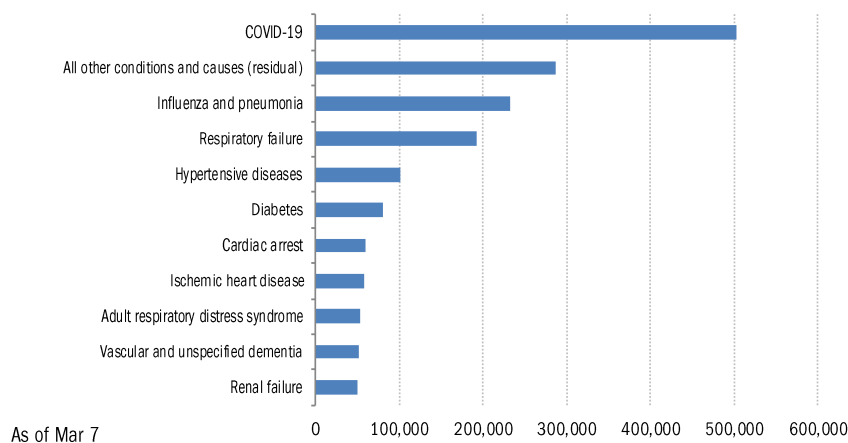


## Racial distribution of US cases, fatalities and case-fatality rates



## Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



For 6% of the deaths, COVID-19 was the only cause mentioned. For deaths with conditions or causes in addition to COVID-19, on average, there were 3.8 additional conditions or causes per death.

Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

## Recommended reading

### [Spectators From Overseas to Be Barred From Tokyo Olympics](#)

Alastair Gale  
*Wall Street Journal*  
March 20, 2021

### [How Israel Delivered the World's Fastest Vaccine Rollout](#)

Felicia Schwartz and Yaroslav Trofimov  
*Wall Street Journal*  
March 18, 2021

### [Europe's Gang That Couldn't Shot Straight](#)

*Wall Street Journal*  
March 19, 2021

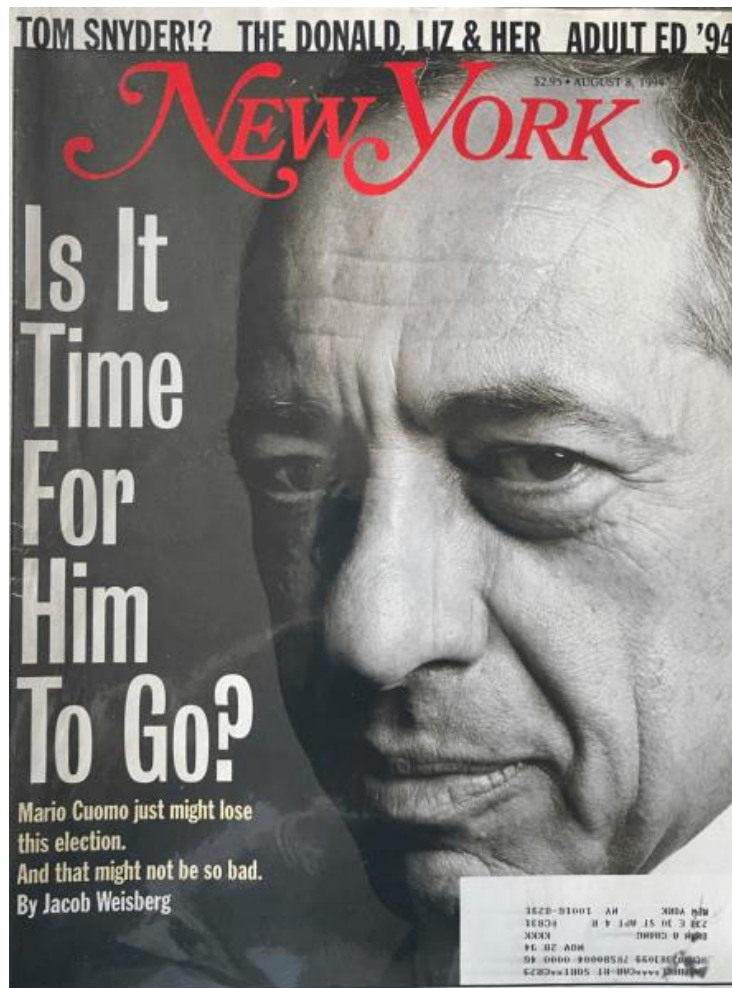
### [How the WHO's Hunt for Covid's Origins Stumbled in China](#)

Jeremy Page, Betsy McKay and Drew Hinshaw  
*Wall Street Journal*  
March 17, 2021

### [Capitalism Is What Will Defeat Covid](#)

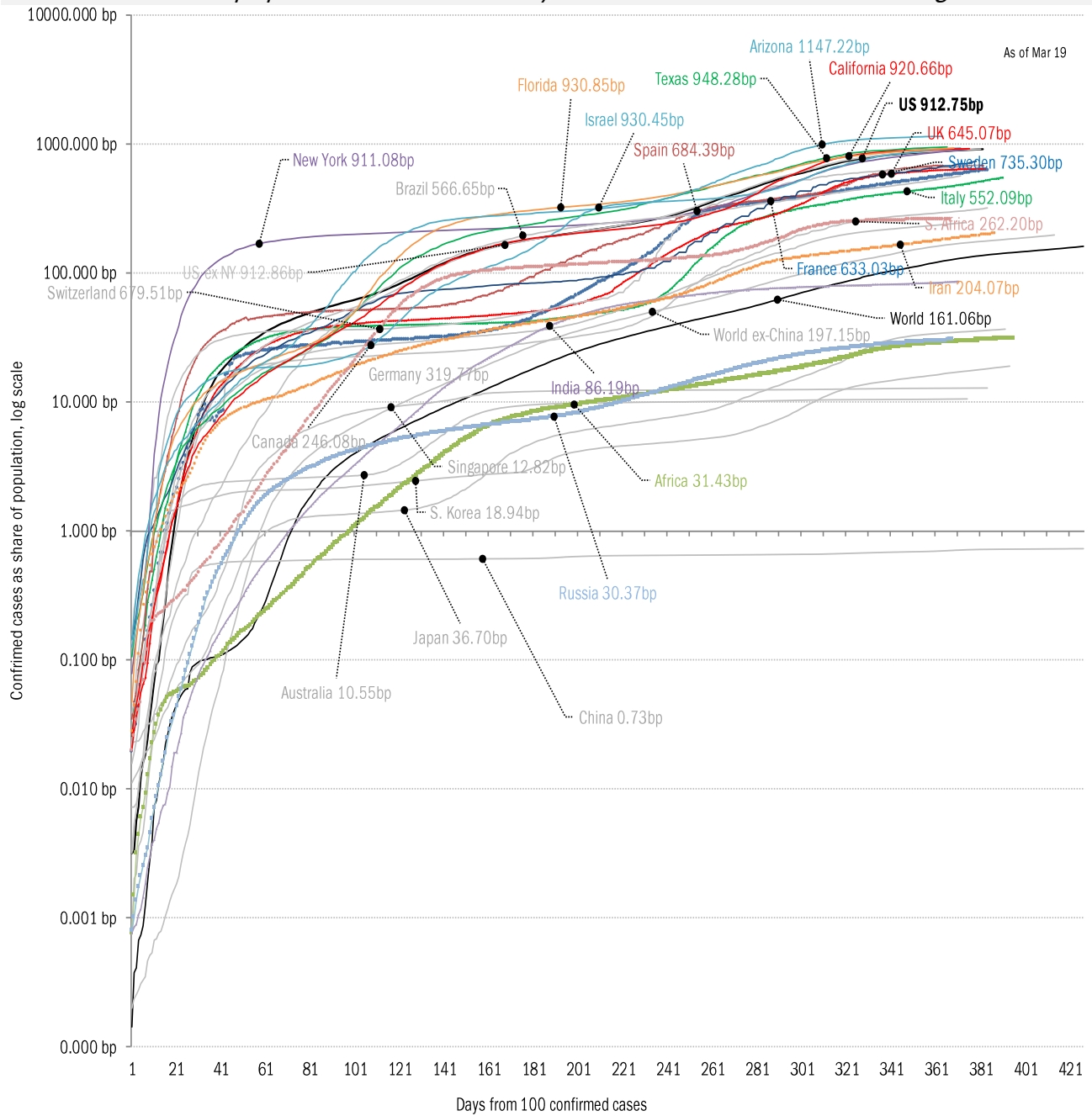
Allysia Finley  
*Wall Street Journal*  
March 19, 2021

## Meme of day



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

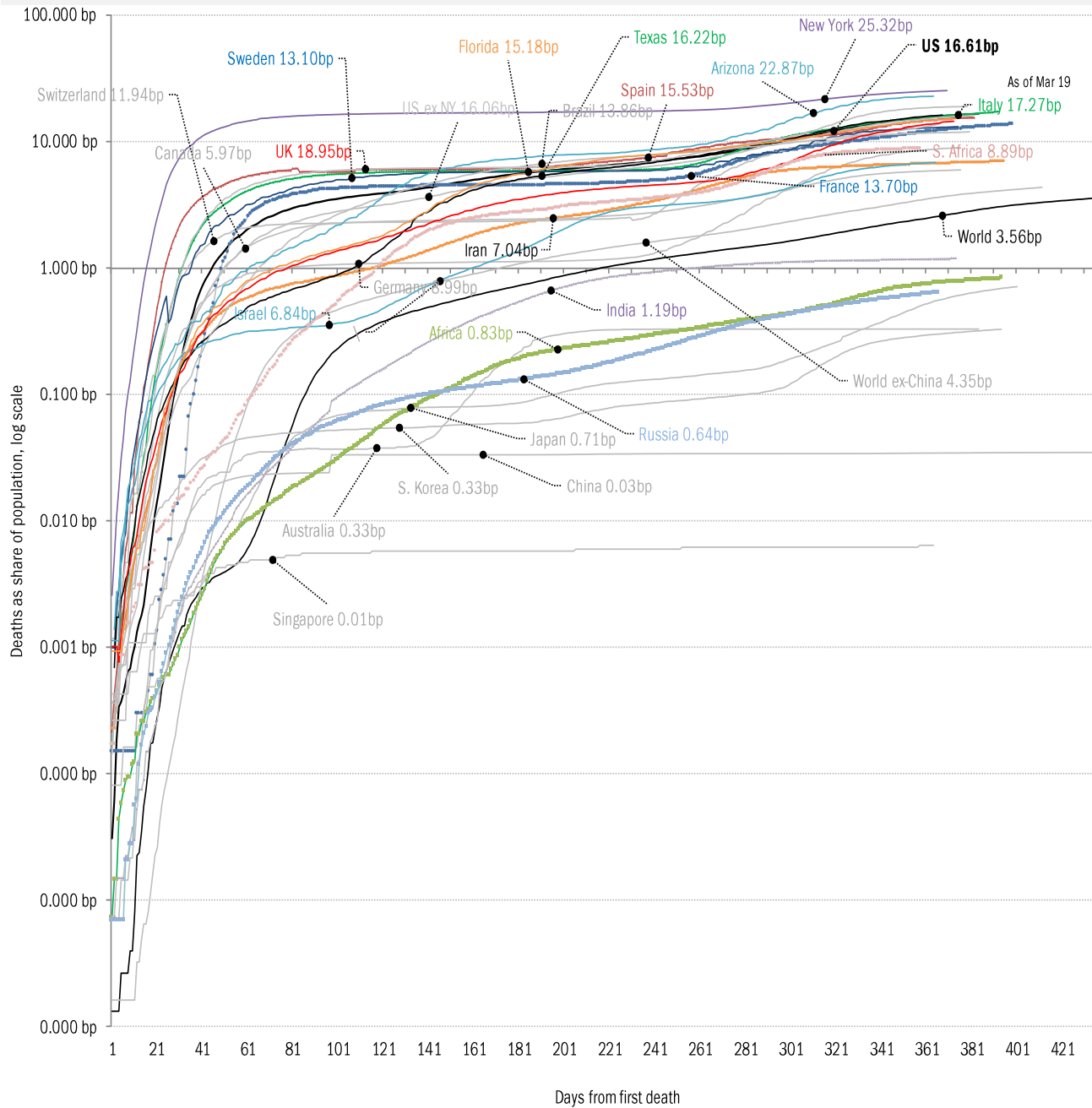
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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

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

## Share of deceased population from day of first fatality



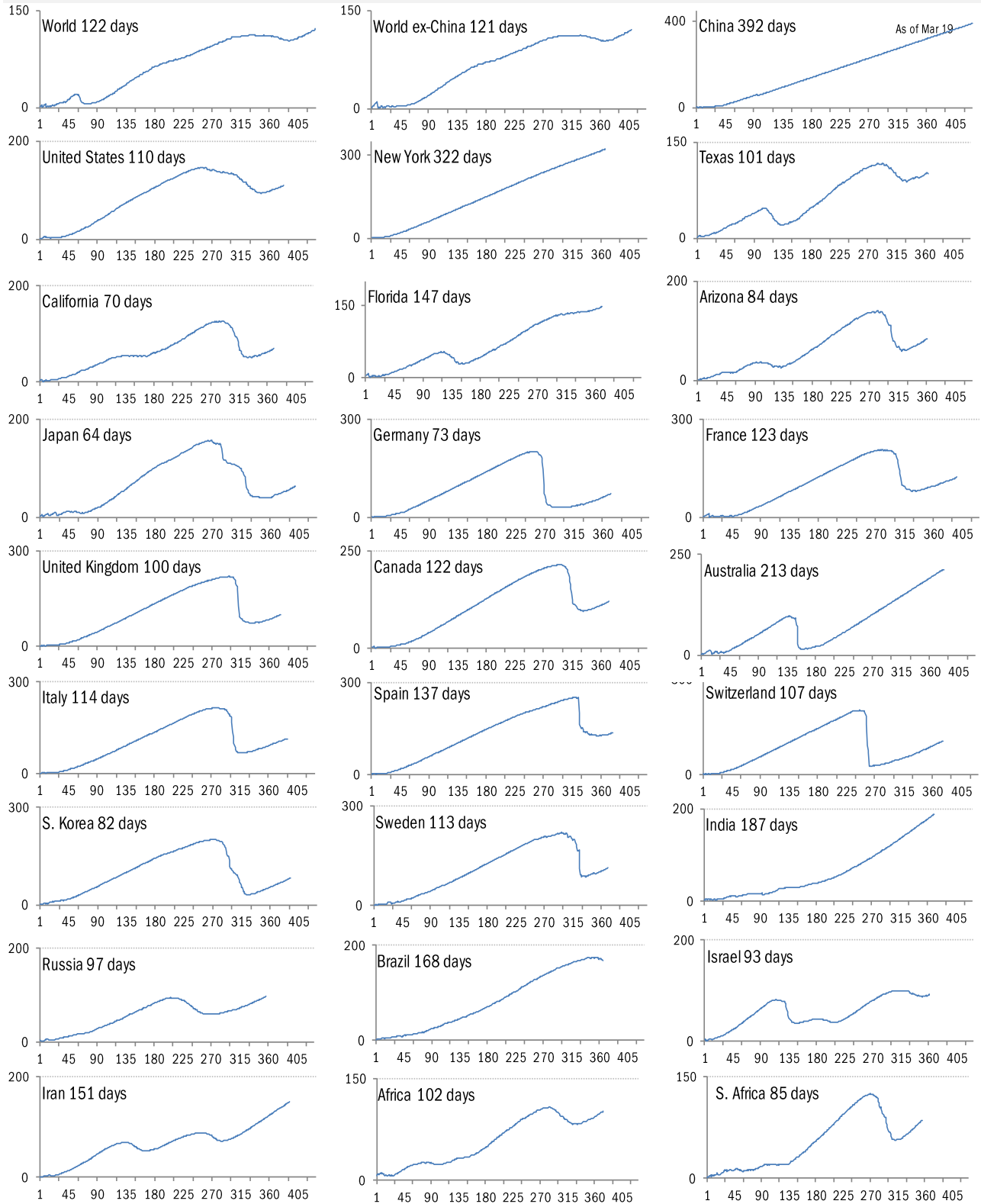
Source: [Johns Hopkins](#), TrendMacro calculations



# "Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

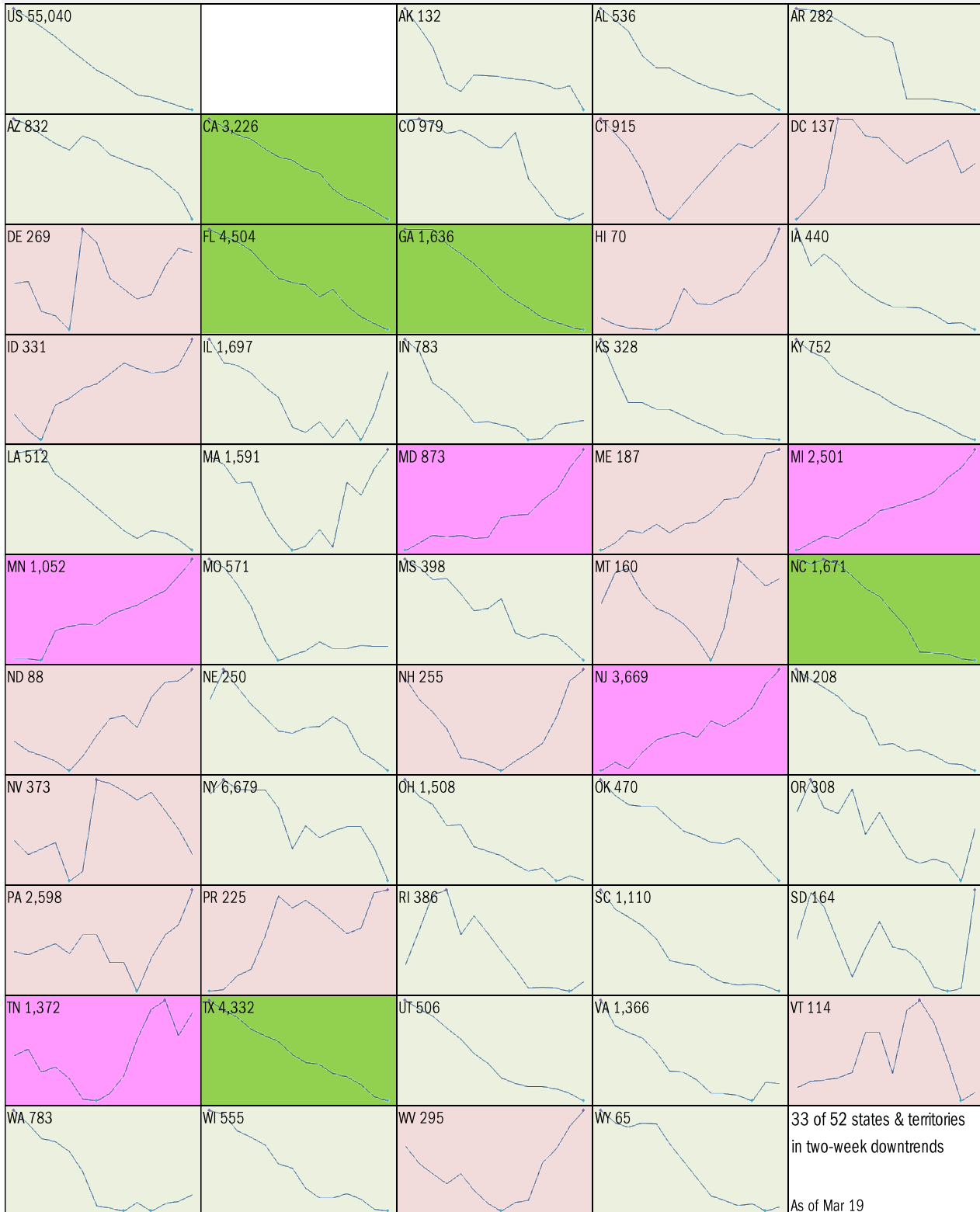
Vertical: days to double deaths Horizontal: days from first death

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

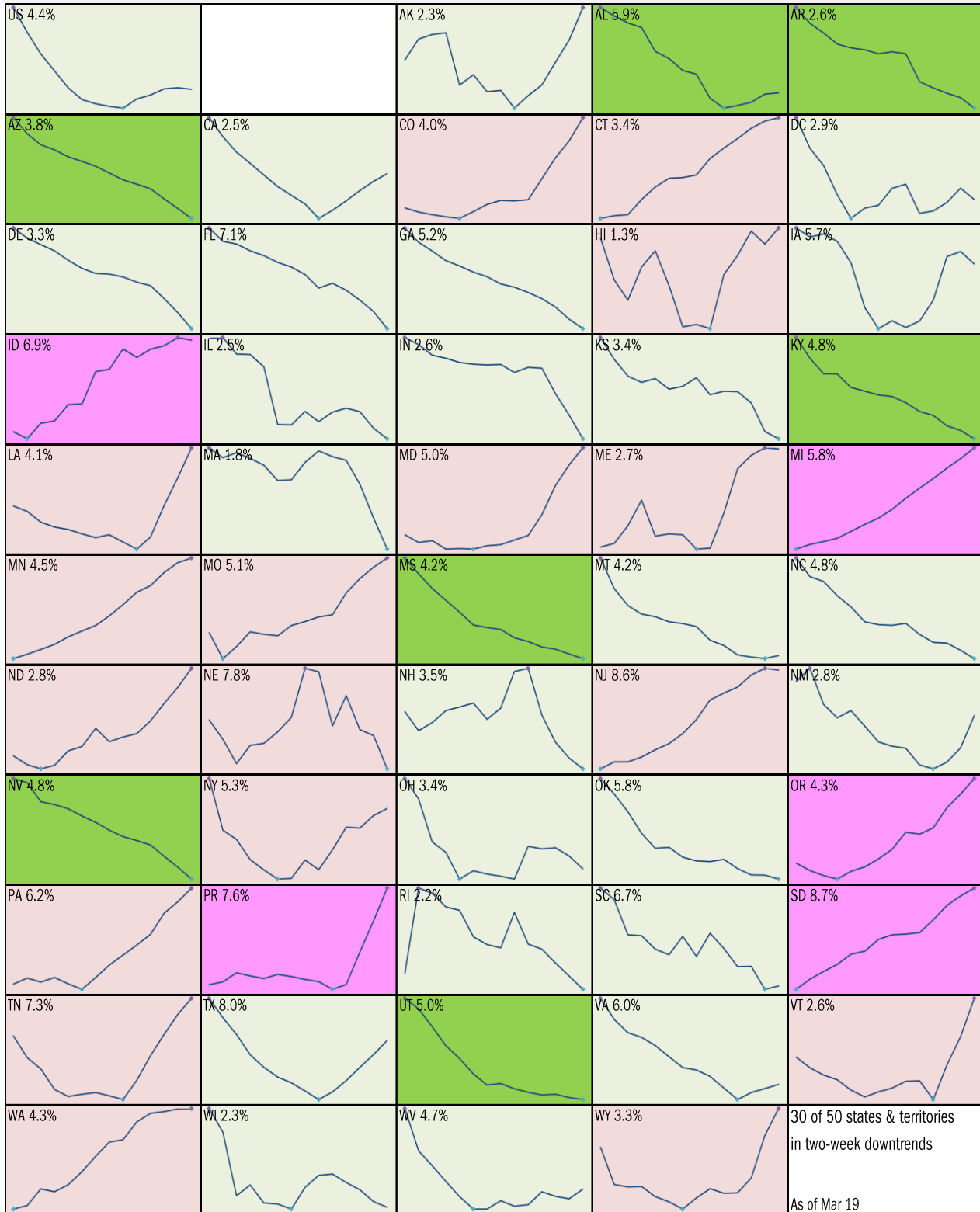


Source: [Johns Hopkins](#), TrendMacro calculations

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

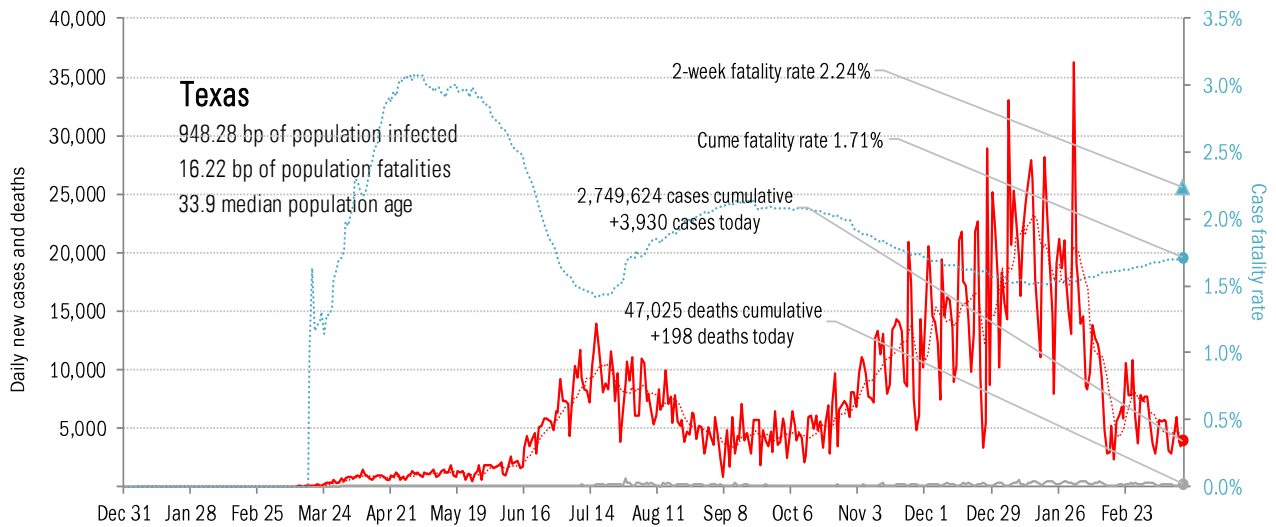
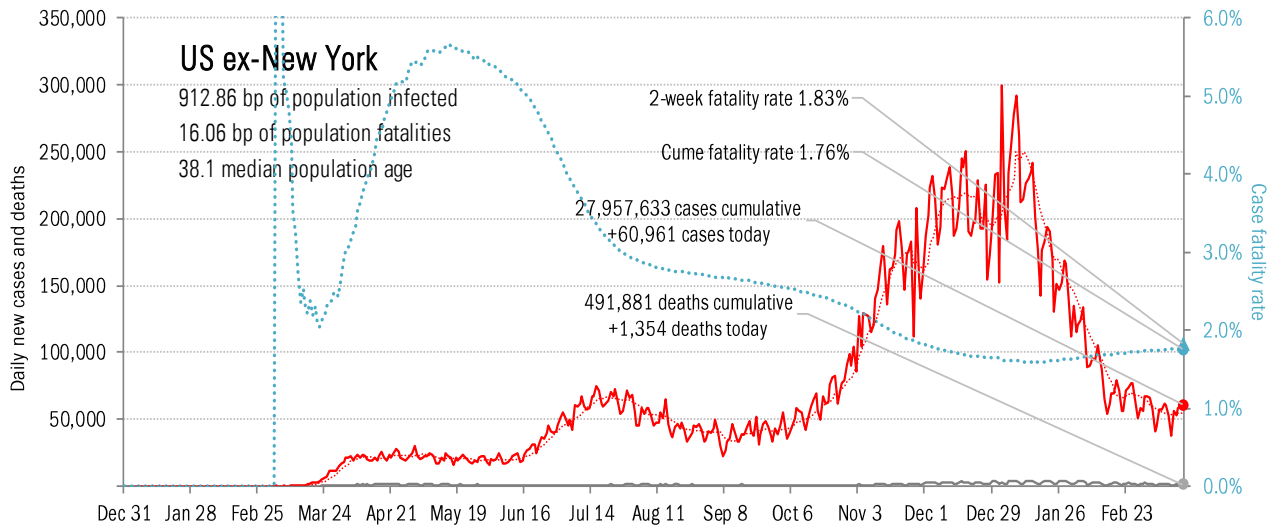
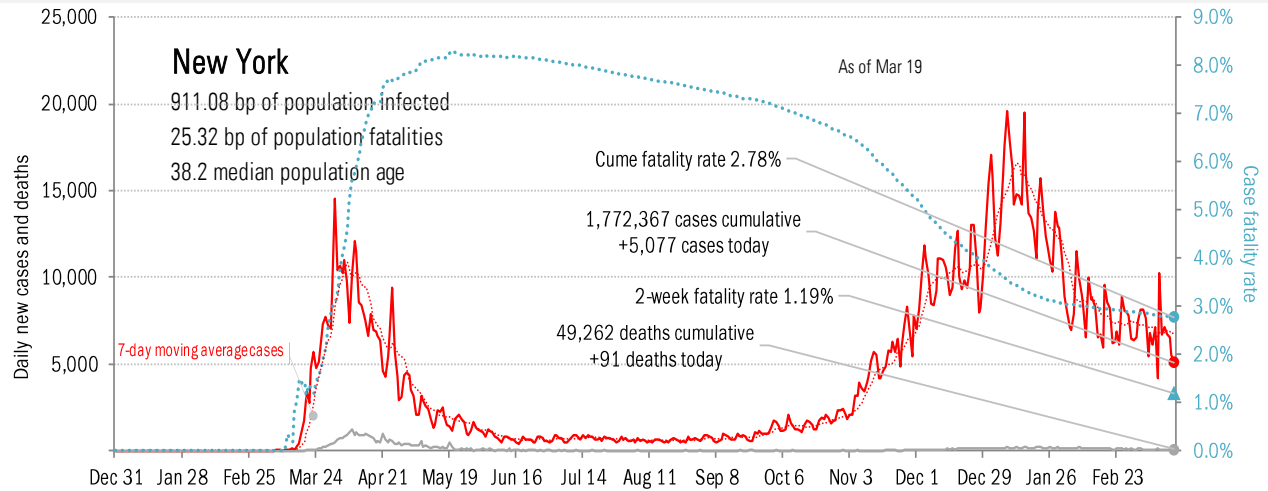
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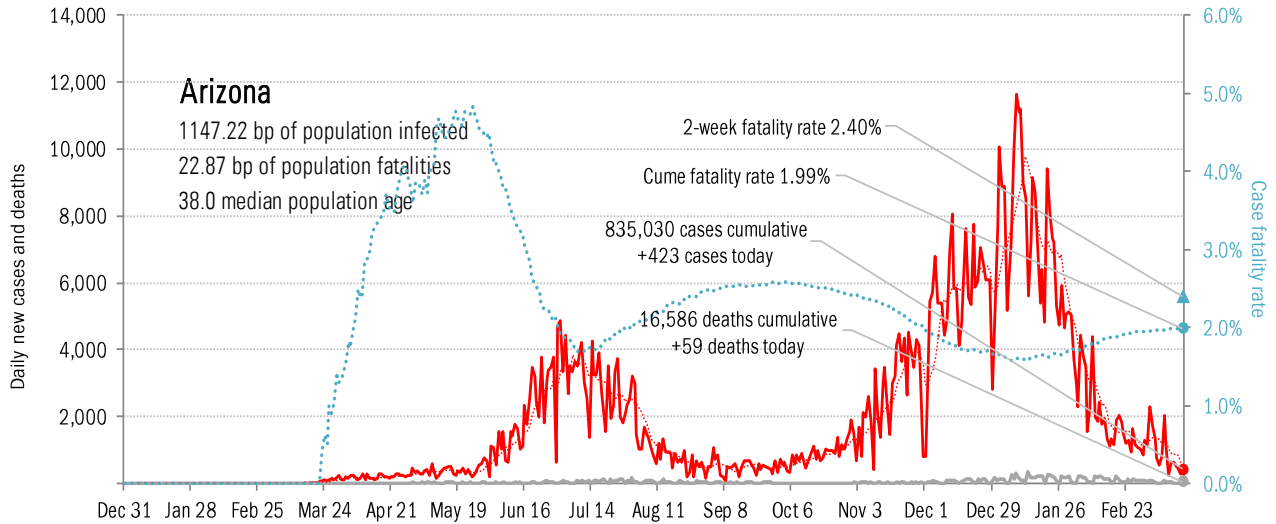
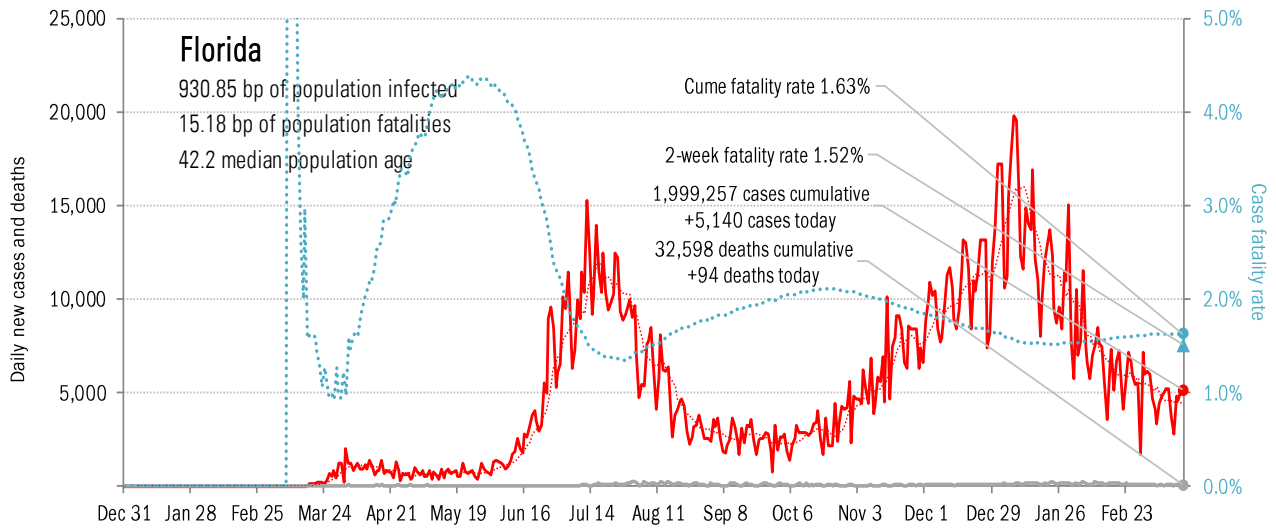
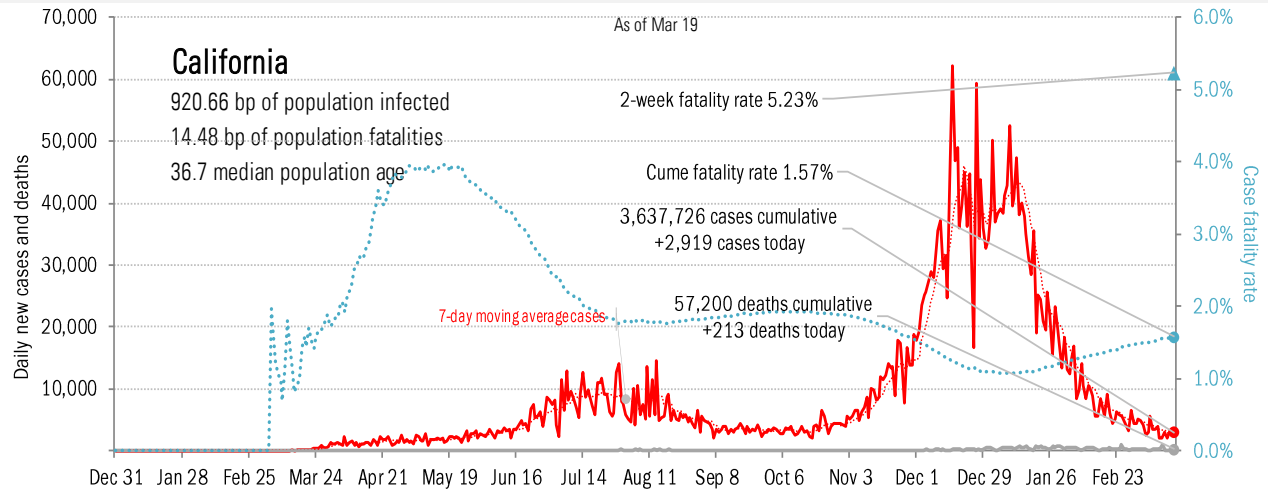
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



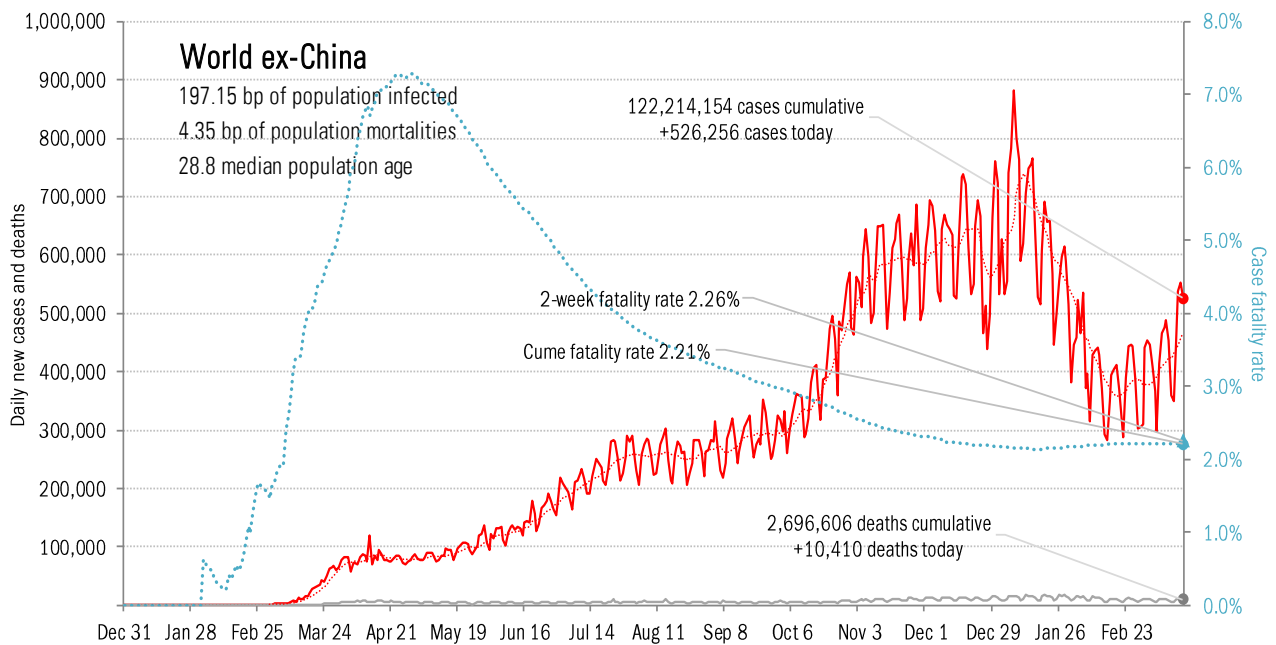
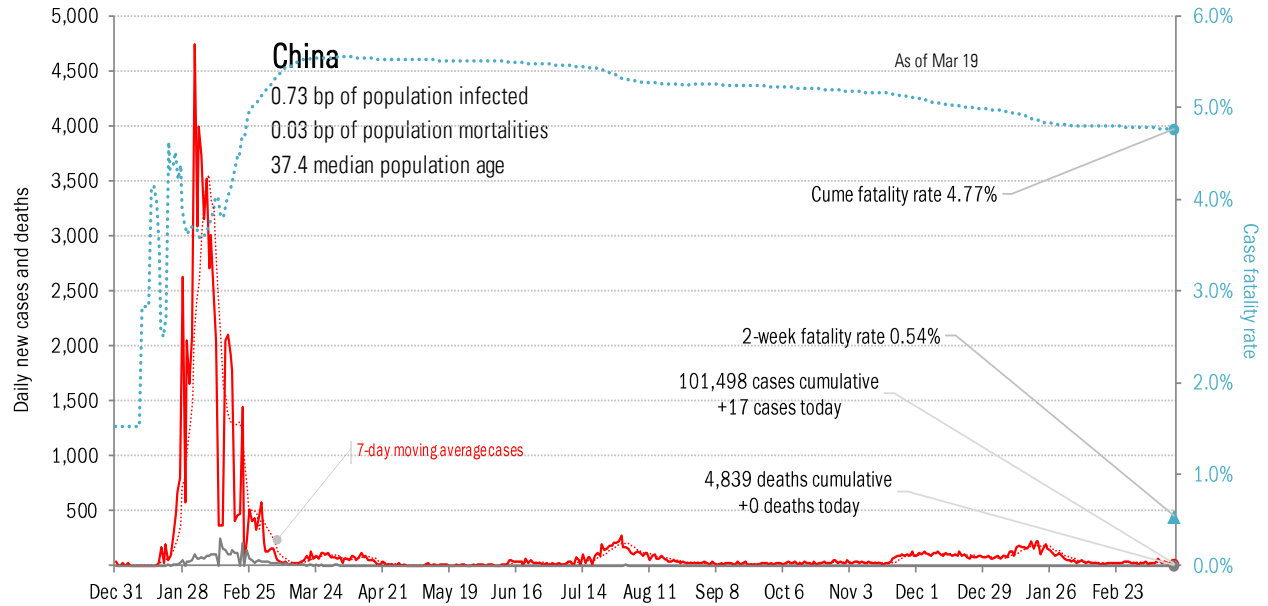
Source: [Johns Hopkins](#), TrendMacro calculations

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



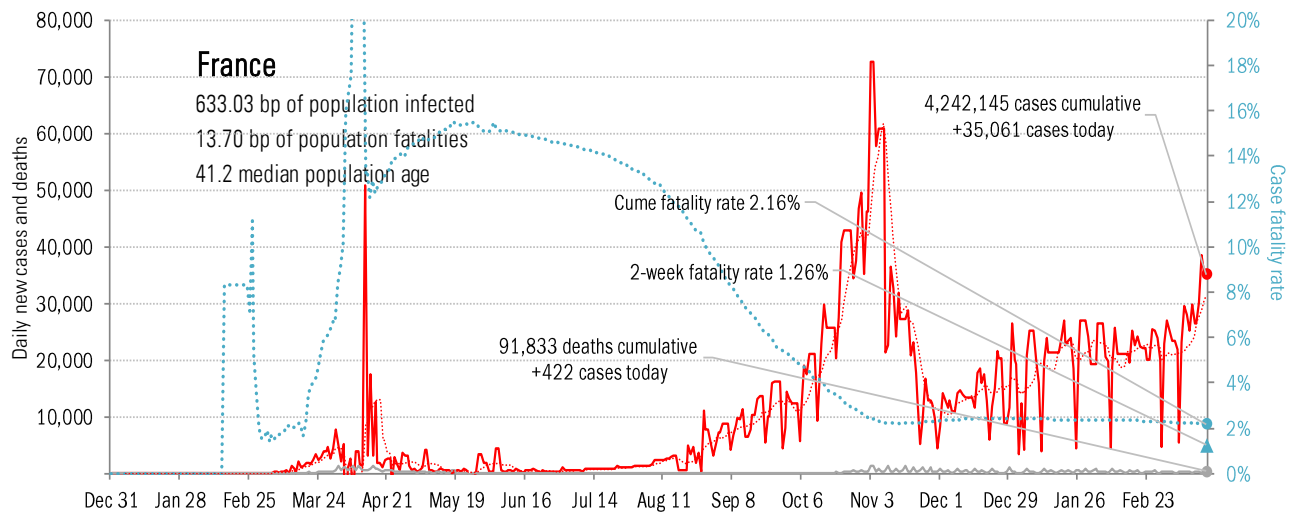
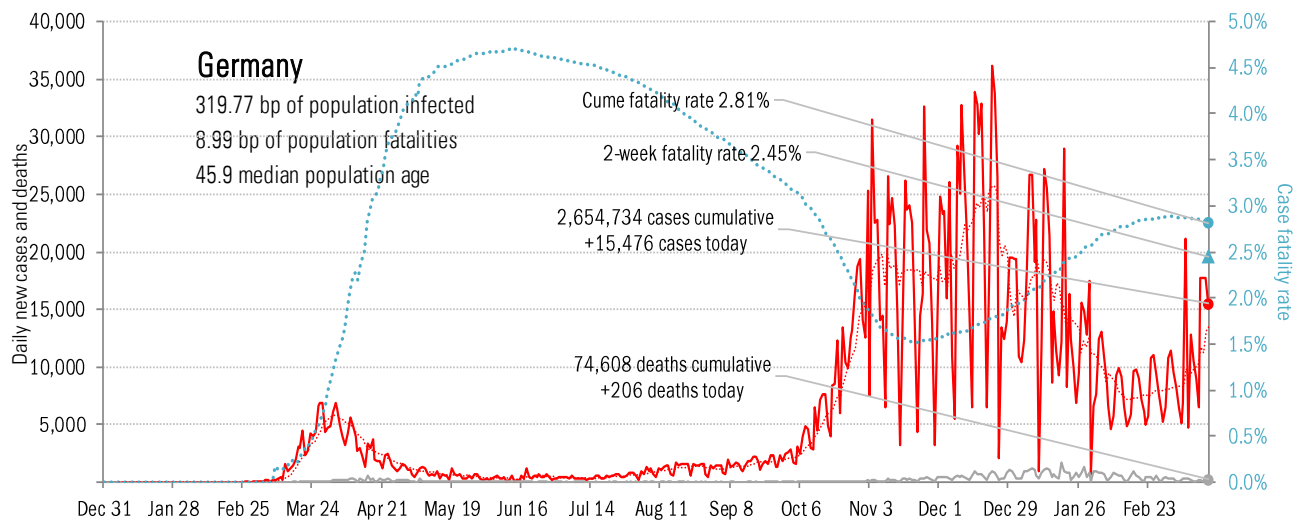
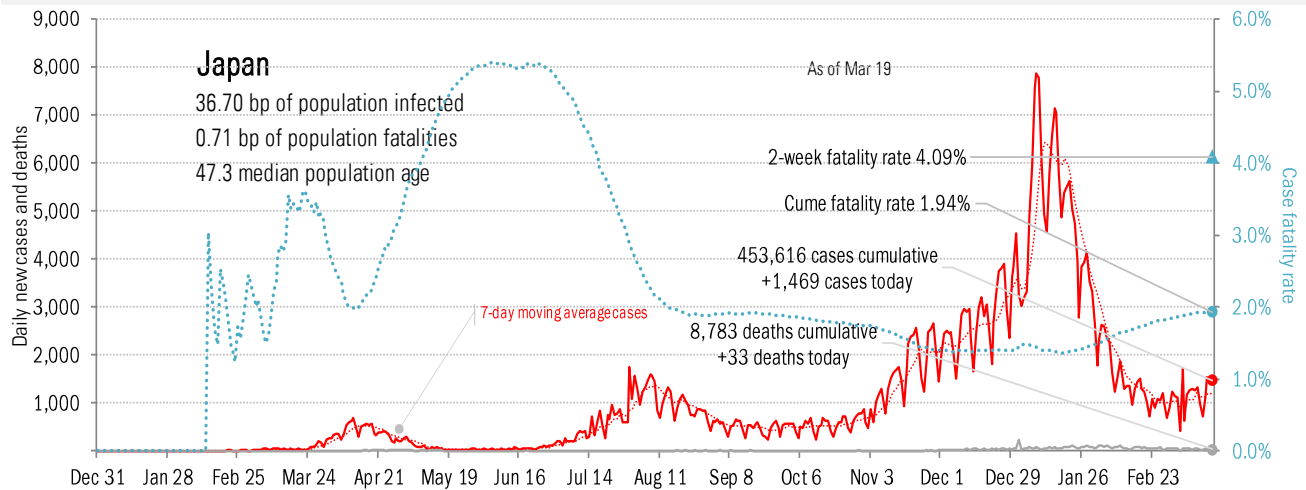
Source: [Johns Hopkins](#), TrendMacro calculations

# Patient zero... and then everyone else



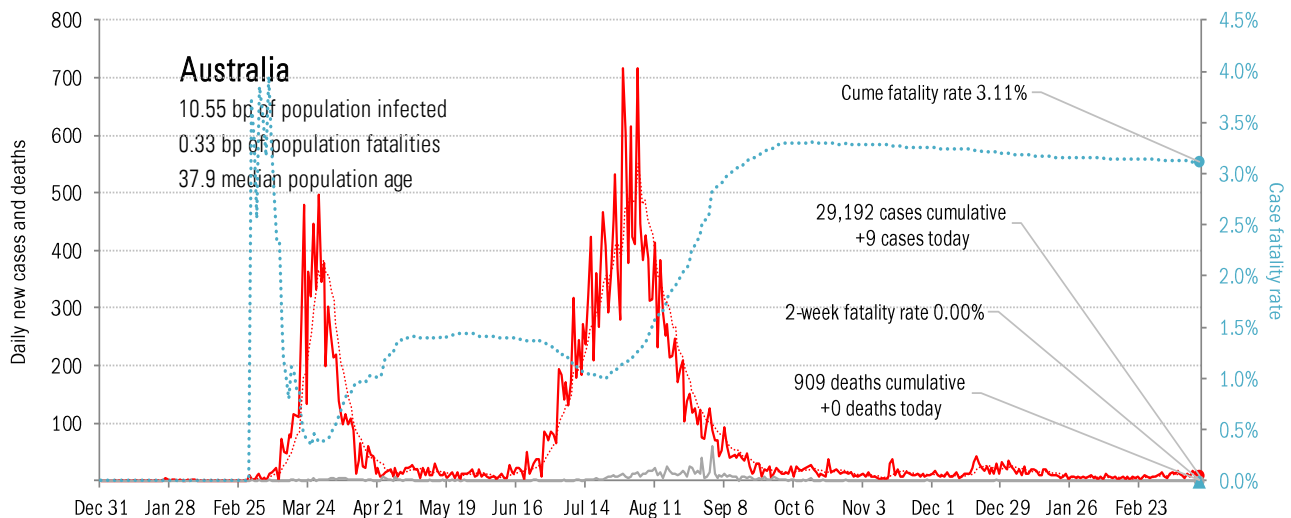
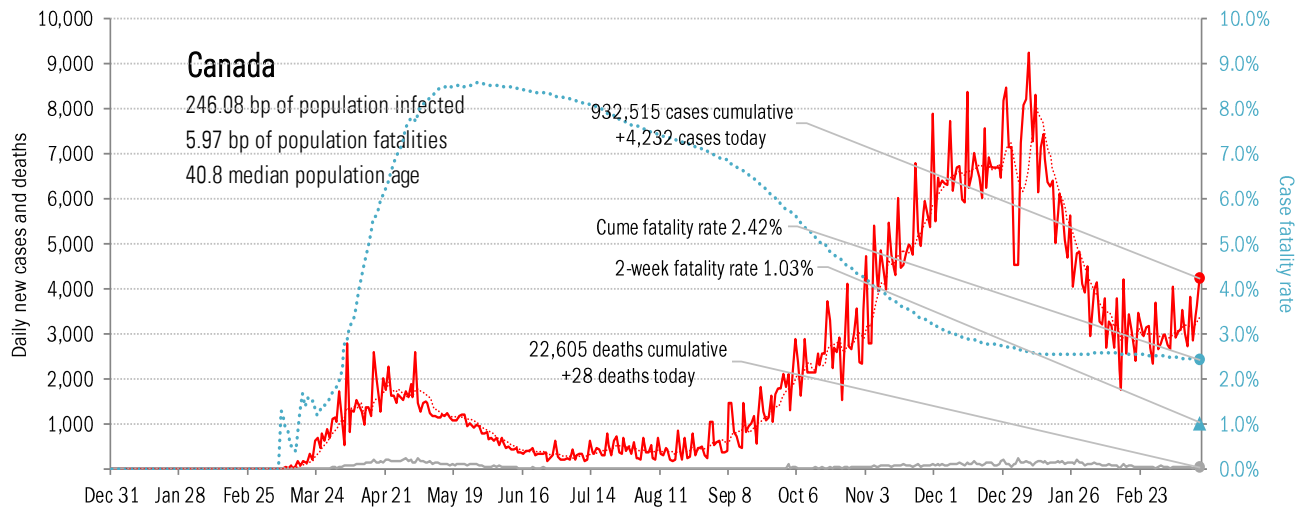
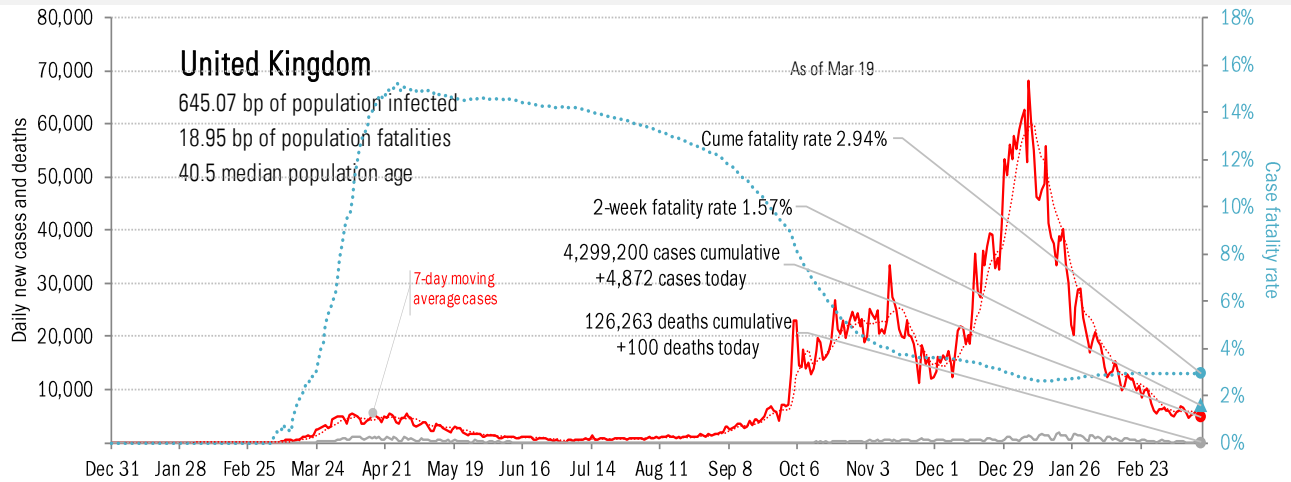
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the largest economies



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

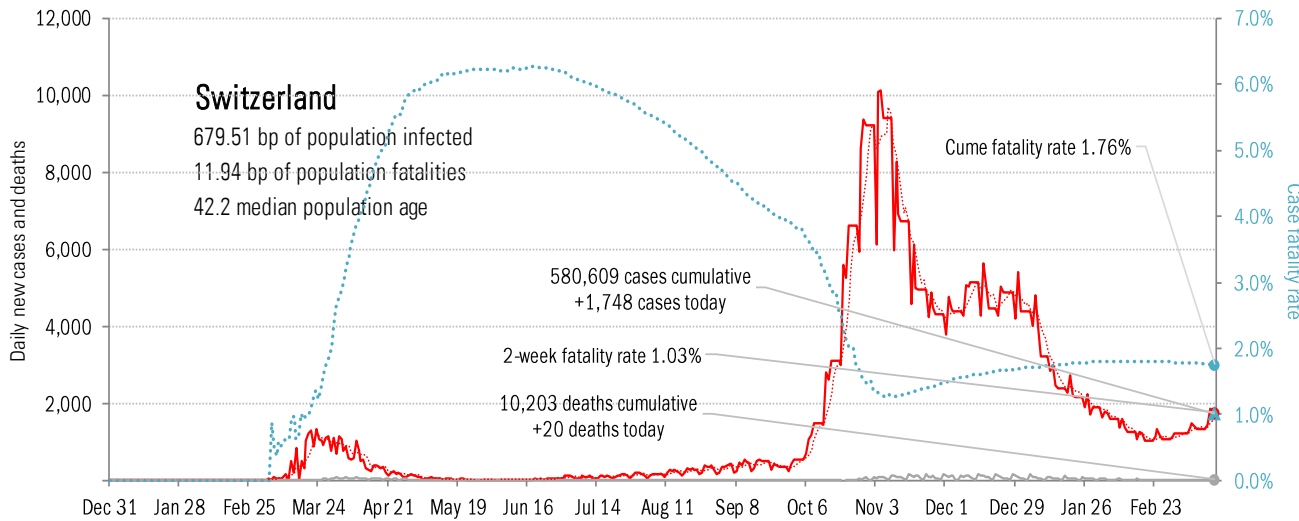
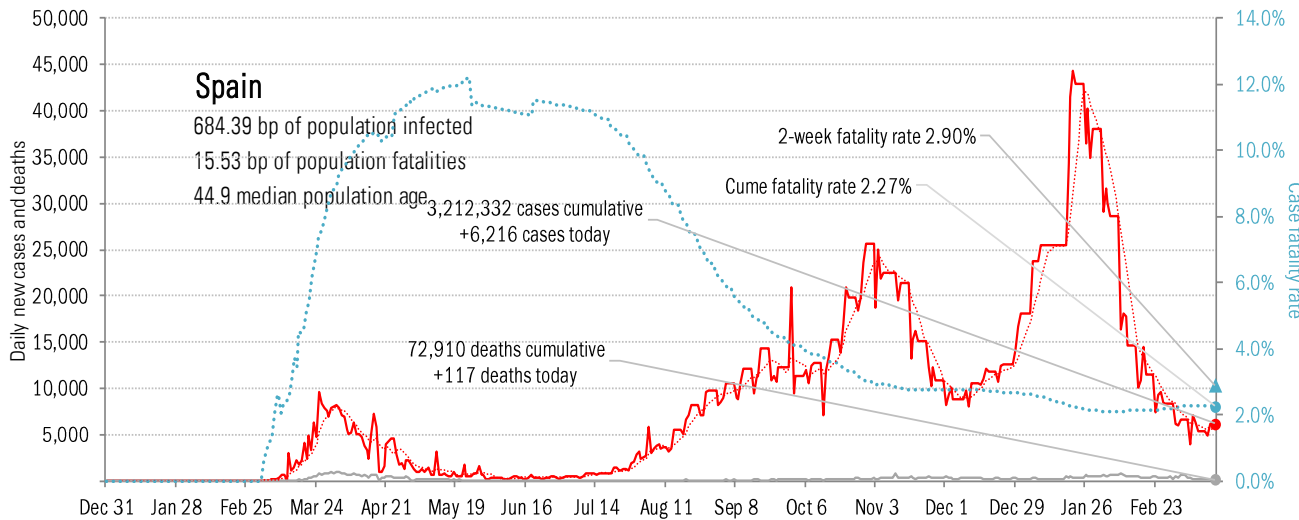
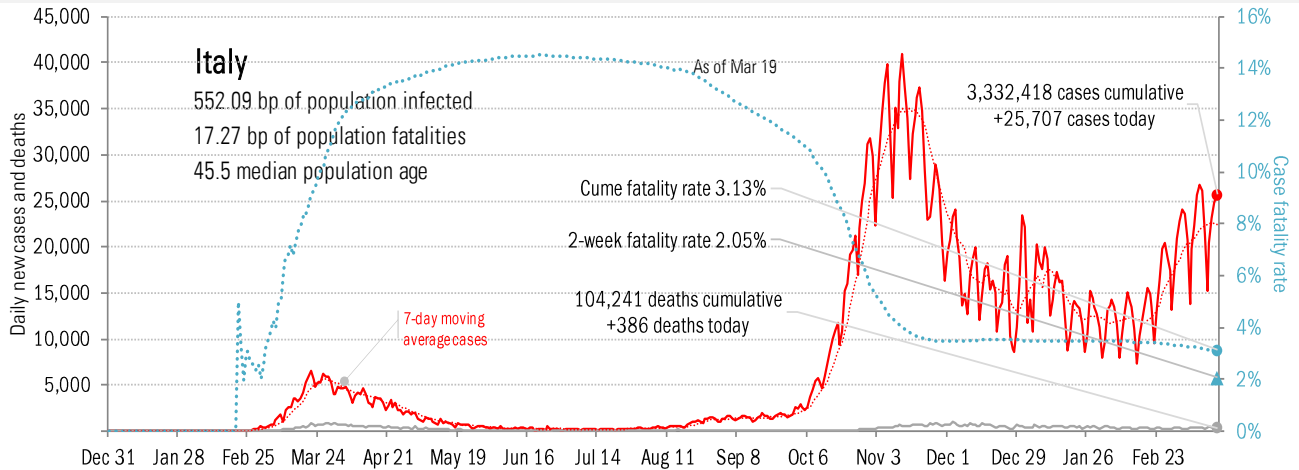
# Impact in The Anglosphere



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

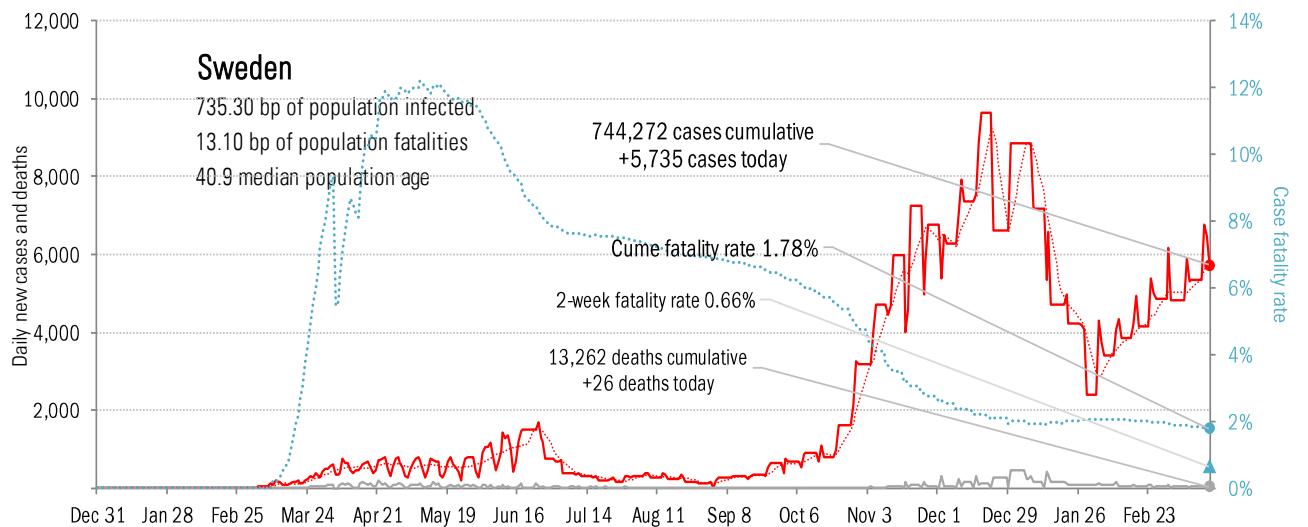
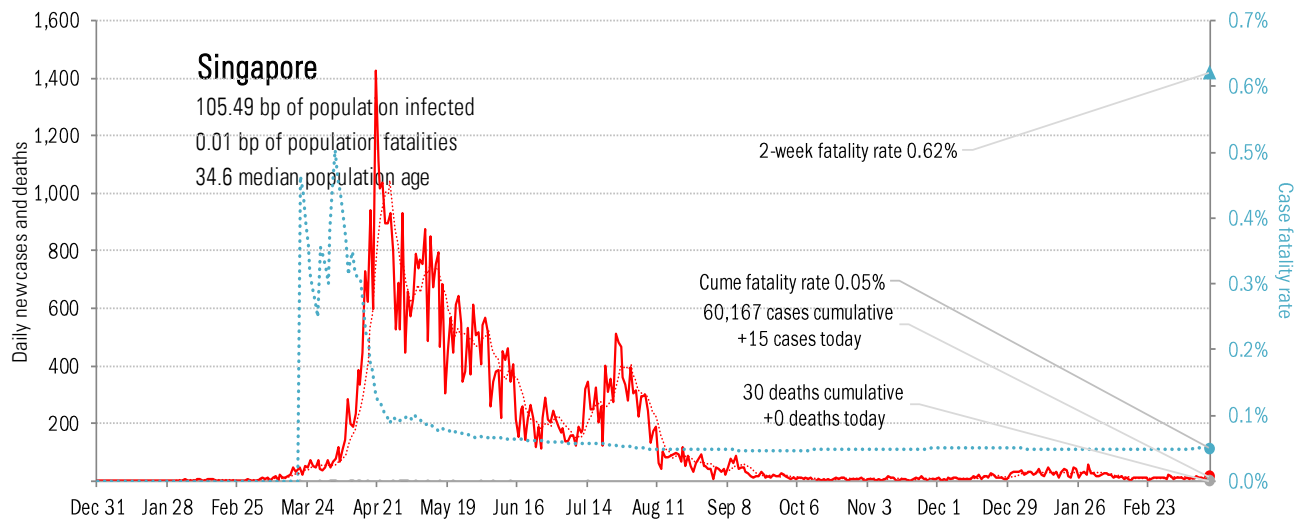
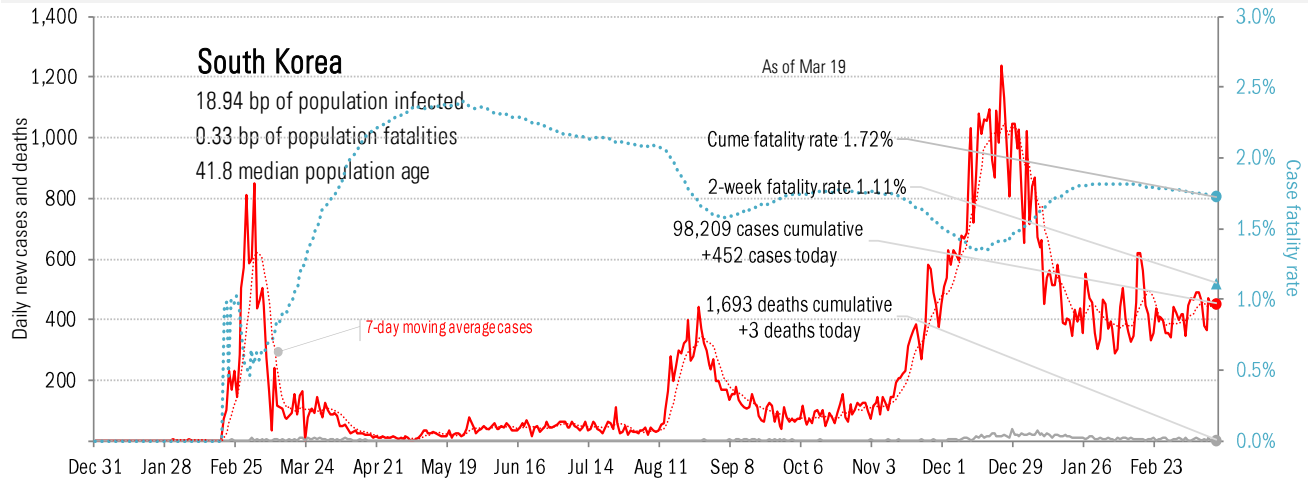


# Impact in continental Europe



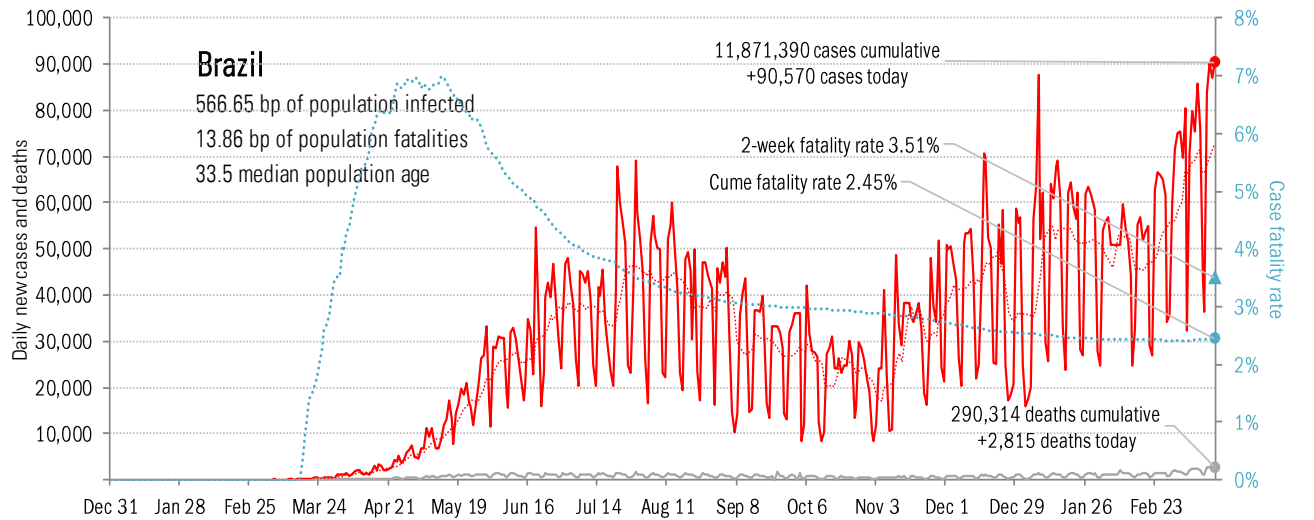
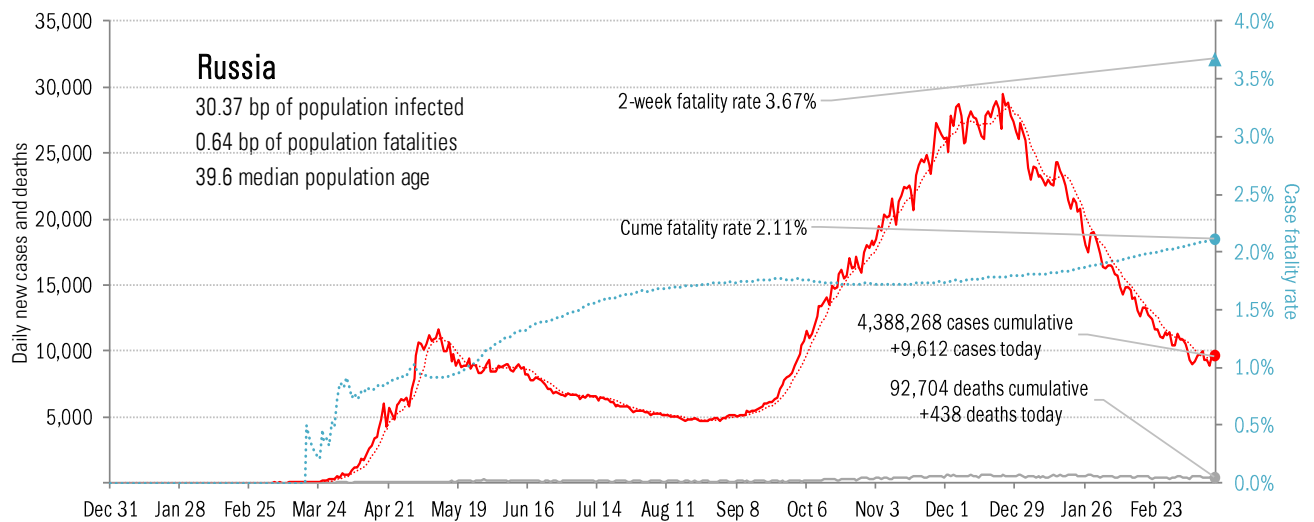
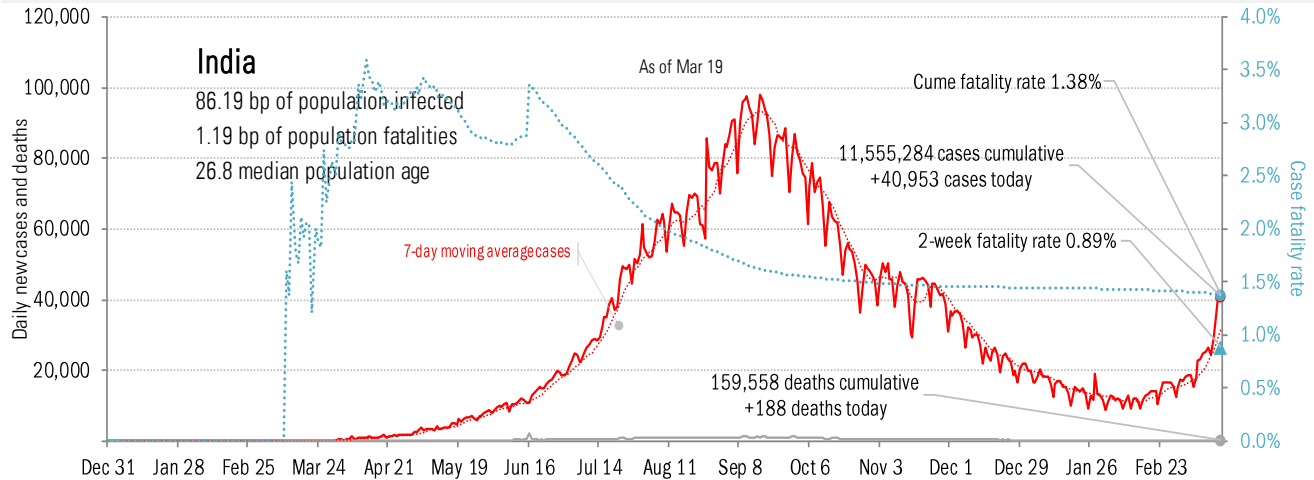
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



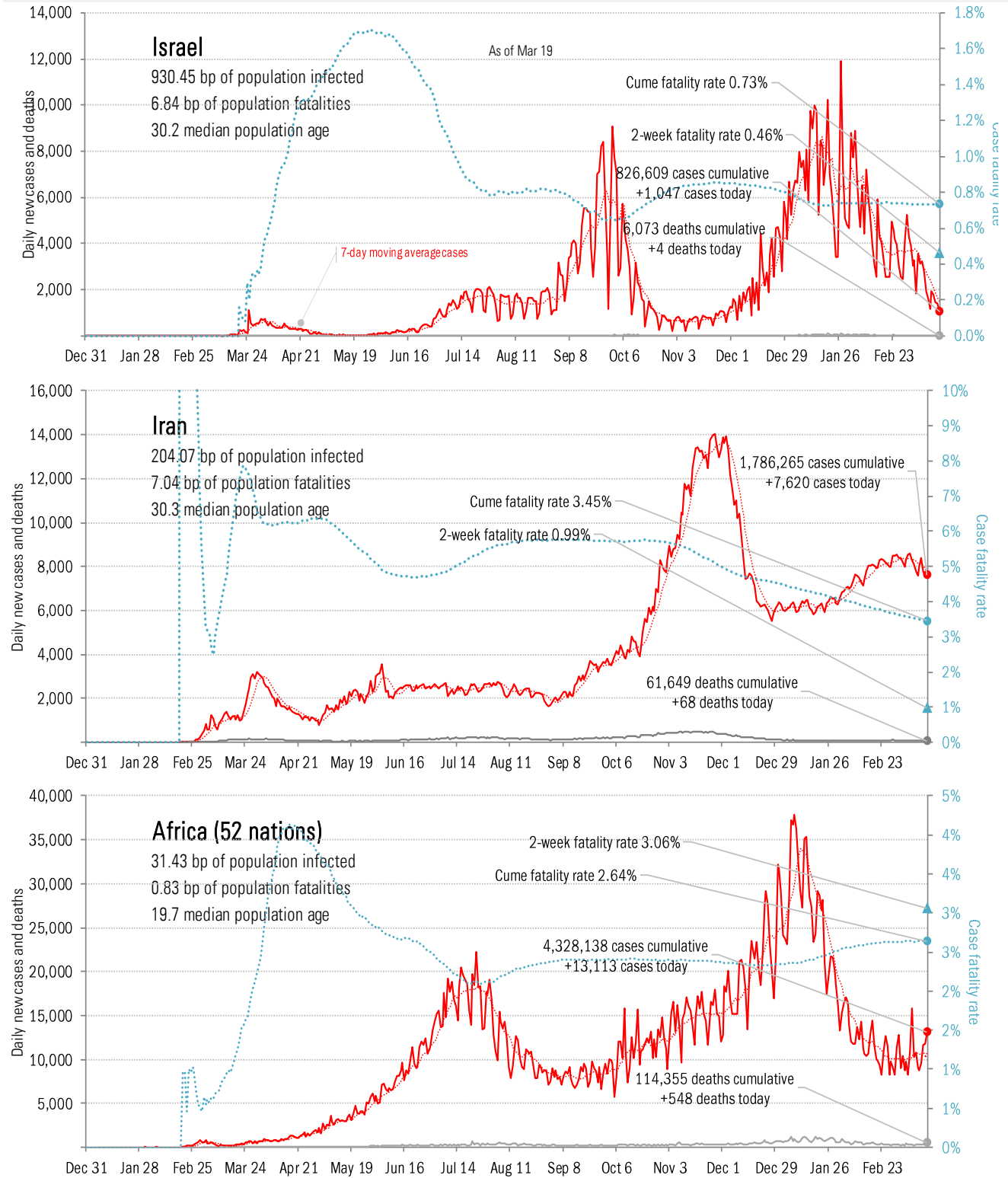
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



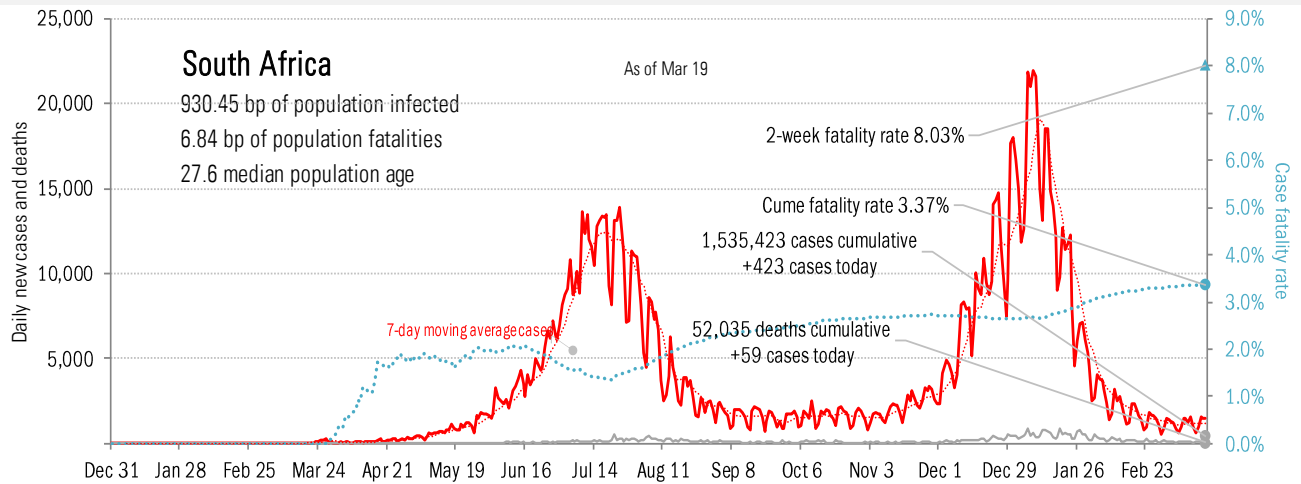
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

## Impact in Africa, continued



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