

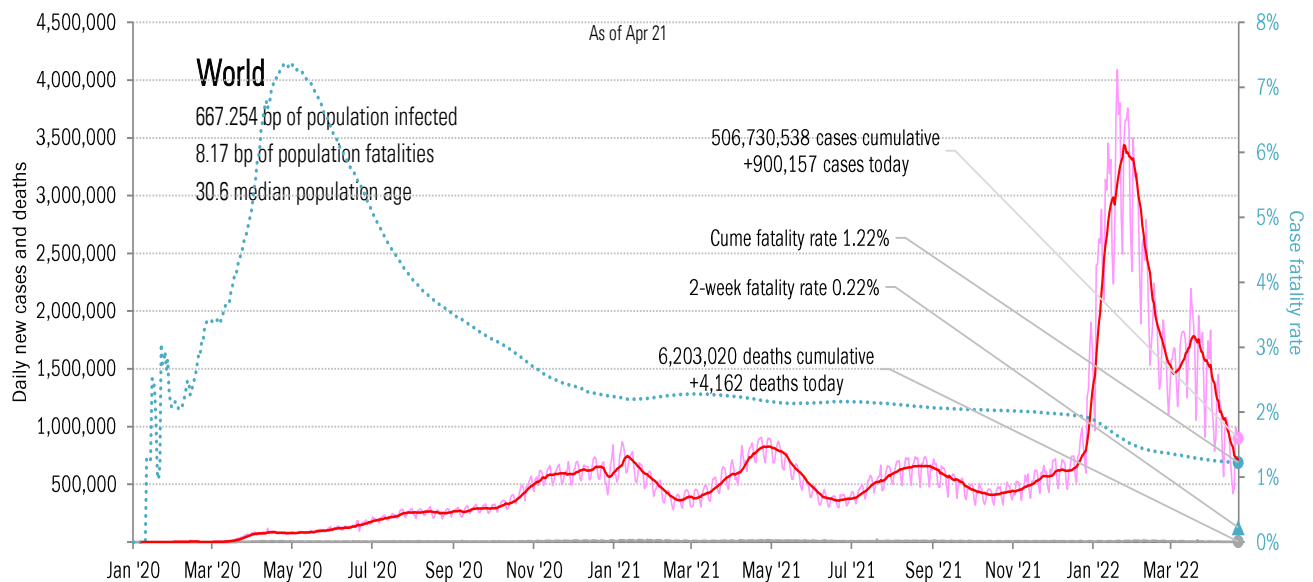
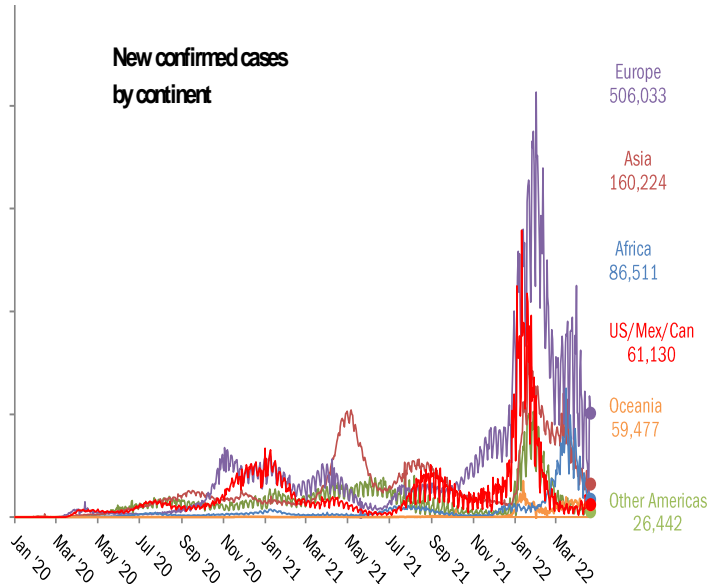
## Data Insights: Covid-2019 Monitor

Friday, April 22, 2022

### The global scorecard

Cases: **7-day average** and **daily** Deaths: Daily

The worst ten countries			
New cases		New Deaths	
Germany	161,718	United Kingdom	647
France	104,007	Austria	587
Korea, South	81,010	United States	493
Italy	75,995	Germany	289
Finland	50,889	Korea, South	206
Australia	49,848	Russia	191
United States	49,540	France	185
Japan	47,054	Italy	166
China	33,746	Thailand	128
Vietnam	30,574	Finland	121
<b>684,381</b>		<b>3,013</b>	
World	900,157	World	4,162
Top ten	76%	Top ten	72%



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

Cases: 7-day average and daily Deaths: Daily

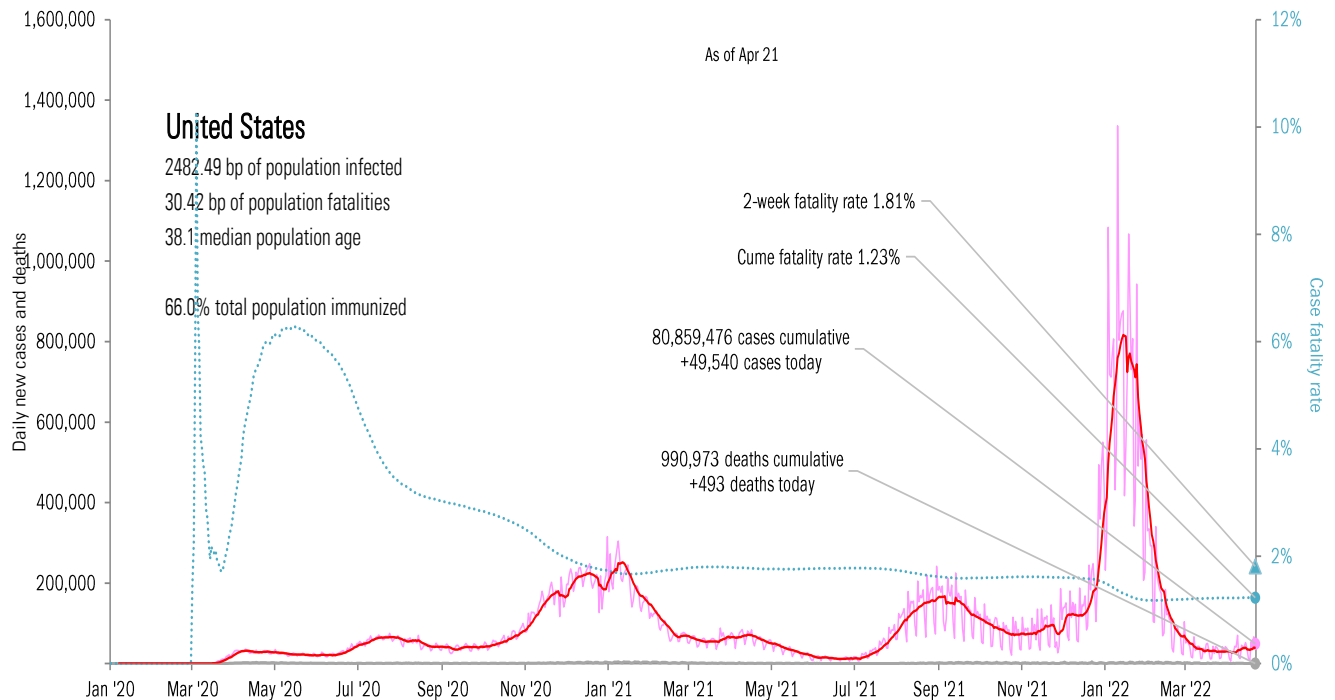
## The ten worst US states

New cases			New deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
NY	7,049		CH	94		GA	85		CA	9,174,880		CA	89,852		TX	489,223		RI	89%	DE	89%
CH	6,890		CK	79		NY	248		TX	6,801,804		TX	87,959		CA	425,322		MA	85%	TX	86%
FR	3,868		CO	31		FL	146		FL	5,912,913		FL	73,905		FL	415,577		MD	83%	RI	85%
IL	3,587		TX	30		CO	30		NY	5,105,071		NY	68,208		NY	248,554		MN	83%	VT	83%
TX	3,211		PA	28		PA	86		IL	3,110,229		PA	44,578		GA	207,429		WA	83%	NH	82%
NJ	2,797		VA	25		CA	141		PA	2,803,378		CH	38,360		CH	191,009		GA	82%	WA	81%
MA	2,602		NY	22		IN	29		CH	2,688,327		GA	37,659		PA	176,581		DC	82%	KY	81%
CA	2,113		FL	19		LA	30		NC	2,647,650		IL	35,992		IL	157,648		MO	81%	NM	81%
CO	2,024		WV	15		MO	29		GA	2,509,160		MI	35,935		MI	141,754		DE	81%	AL	80%
PA	1,844		CA	14		VA	40		MI	2,411,464		NJ	33,363		KY	133,009		PA	81%	CR	80%
35,985			357			864			43,164,876			545,811			2,586,106						
All states	49,540			493			1,827		All states	80,859,476			990,973			4,695,662		All states	70%		67%
Top ten	73%			72%			47%		Top ten	53%			55%			55%		Median	75%		73%

Some states not reporting

## Five most improved US states

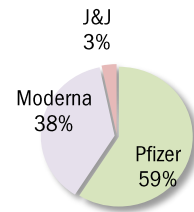
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-10,474	NV	-183	AS	-33	AZ	+10 bp
NC	-8,409	GA	-136	CT	-28	KY	+10 bp
FL	-6,561	FL	-129	NC	-28	NY	+10 bp
AZ	-3,699	TN	-80	MA	-18	CR	+10 bp
GA	-2,526	MI	-78	TX	-18	WV	+10 bp



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

# Rolling out the vaccines in the US and the world

Administered	Cumulative		Today	Immunity	Full	Partial
Doses	586,390,628		+0.365 million	US	66.0%	77.4%
Boosters	101,097,535		+0.071 million	UK	72.8%	77.8%
	One dose	% Pop	Immune	% pop	New immune today	
Total population	264,792,666	79%	225,444,705	67%	+0.064 million	Spain 86.3% 88.1%
Age 12 to 17	17,677,839	70%	15,078,025	60%	+0.003 million	Germany 75.4% 76.0%
Age 18 to 64	178,170,728	88%	151,155,652	74%	+0.038 million	Italy 79.3% 84.1%
Age 65 and over	58,717,348	100%	50,992,410	93%	+0.017 million	Australia 83.2% 86.3%



State	Best
At least partial immunity as % population	Middle
Full immunity as % population	Worst

AK
69.7%
62.2%

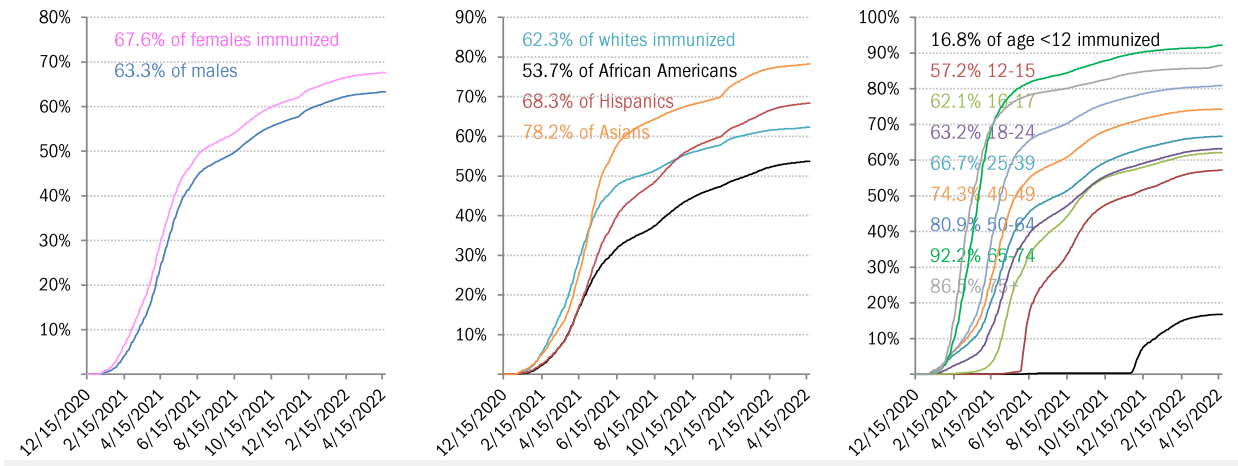
Israel	66.0%	72.2%
Canada	82.1%	87.6%
Japan	80.3%	81.7%
Africa	16.2%	21.2%
India	60.7%	71.7%
Brazil	76.2%	85.2%
China	86.3%	88.6%

Global data differs due to sources, timing

As of Apr 21

WI	71.7%	65.4%	ME	90.1%	79.3%																	
WA	80.6%	61.0%	MT	65.1%	ND	64.8%	MN	75.0%	IL	76.5%	MI	66.9%	NY	90.0%	VT	93.3%	NH	87.7%				
	72.4%	53.9%		56.6%		54.8%		69.0%		68.5%		60.0%		76.7%		81.0%		70.0%				
OR	77.7%	NV	75.1%	WY	58.7%	SD	76.3%	IA	67.8%	IN	61.3%	OH	63.4%	PA	84.6%	NJ	90.2%	MA	95.0%			
	69.5%		60.7%		51.5%		61.2%		61.8%		54.7%		58.3%		68.2%		75.4%		78.7%			
CA	83.5%	UT	72.0%	CO	79.2%	NE	70.2%	MO	66.1%	KY	66.0%	WV	64.9%	VA	85.5%	MD	86.3%	CT	95.0%	RI	95.0%	
	71.9%		64.2%		70.1%		63.5%		55.9%		57.3%		57.5%		73.0%		75.4%		79.0%		82.3%	
		AZ	72.8%	NM	87.4%	KS	74.3%	AR	66.5%	TN	62.1%	NC	83.9%	SC	67.3%	DC	95.0%	DE	82.9%			
			61.4%		70.9%		61.2%		54.3%		54.4%		60.8%		73.7%		68.9%					
						OK	70.9%	LA	60.9%	MS	59.5%	AL	62.6%	GA	65.2%							
							57.1%		53.4%		51.7%		51.0%		54.6%							
								TX								FL	79.1%				PR	94.8%
																	66.8%					82.8%

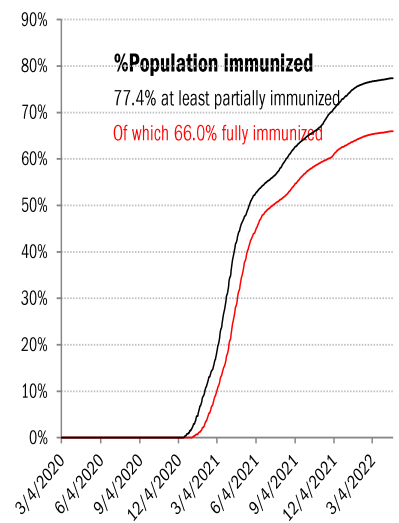
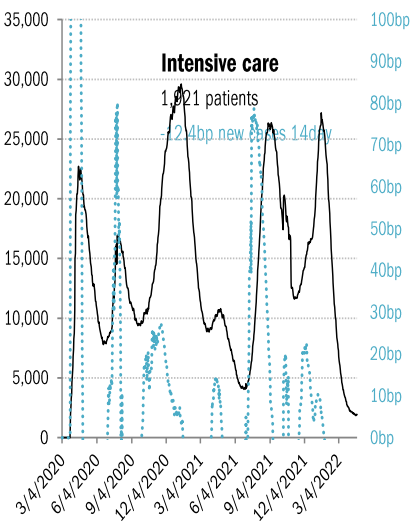
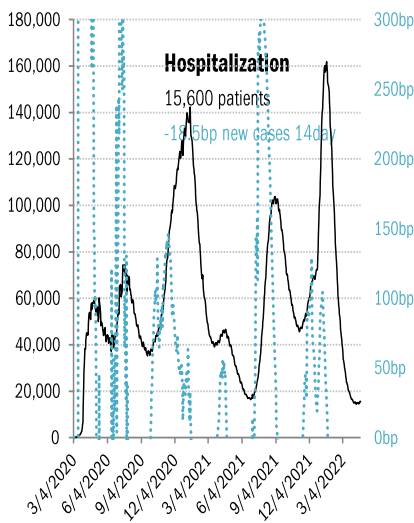
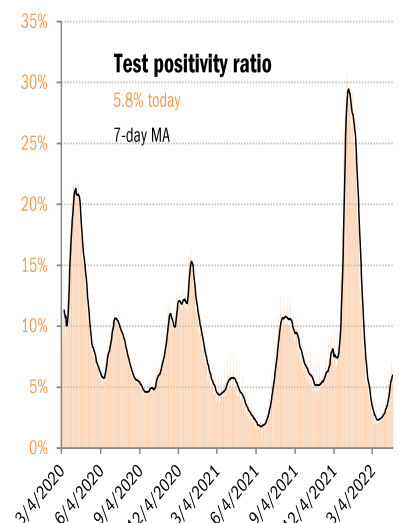
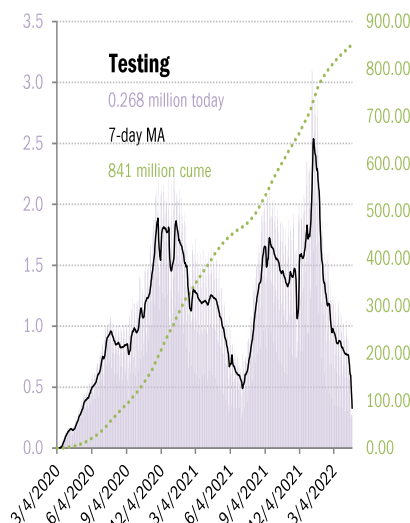
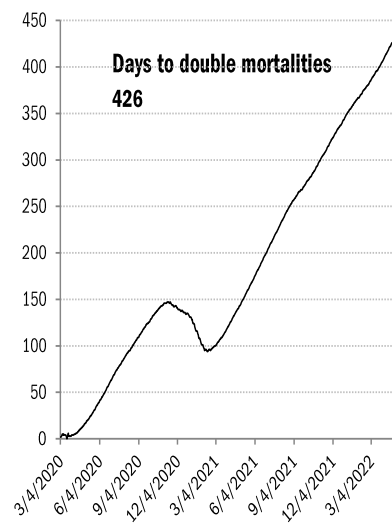
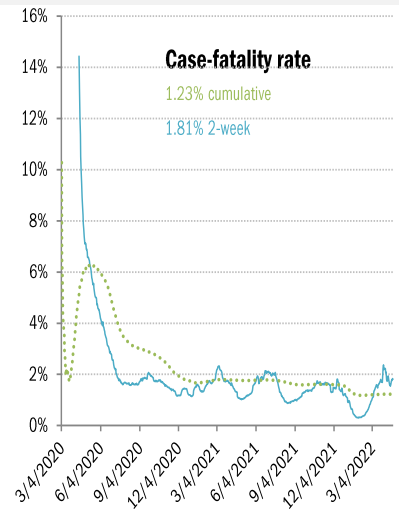
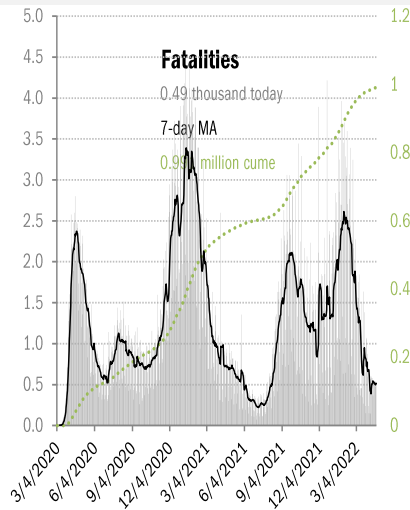
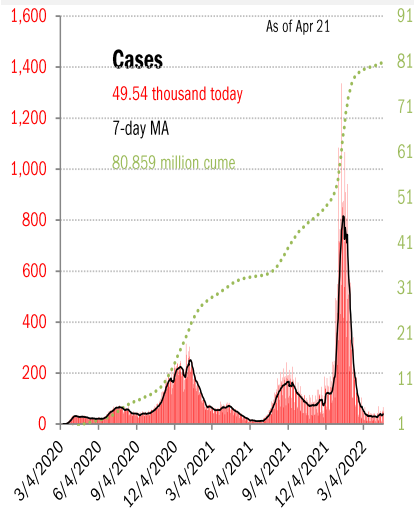
## The demographics of US vaccination



Source: CDC, CDC, Our World in Data, TrendMacro calculations

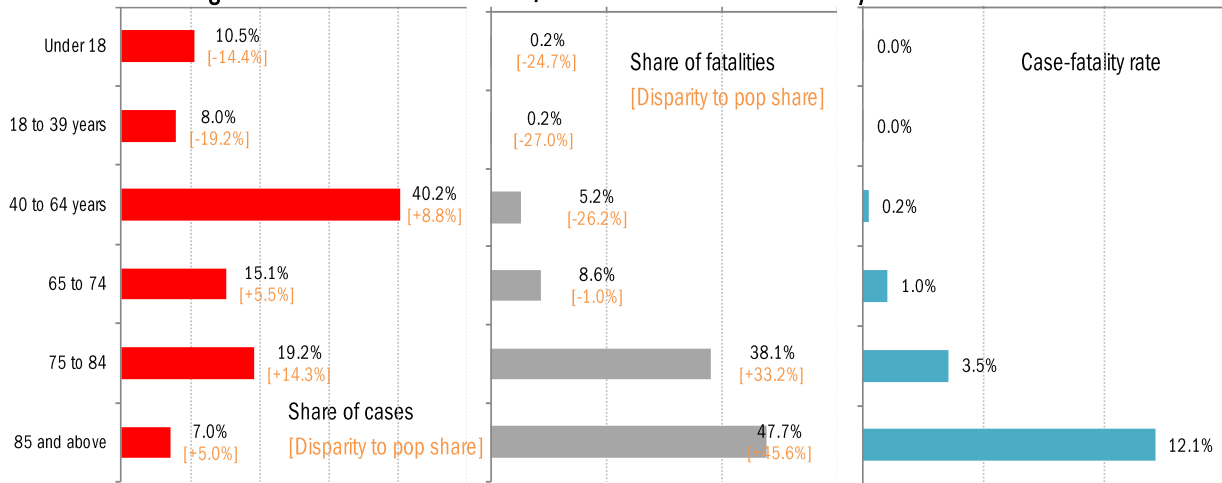
# US deep-dive

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

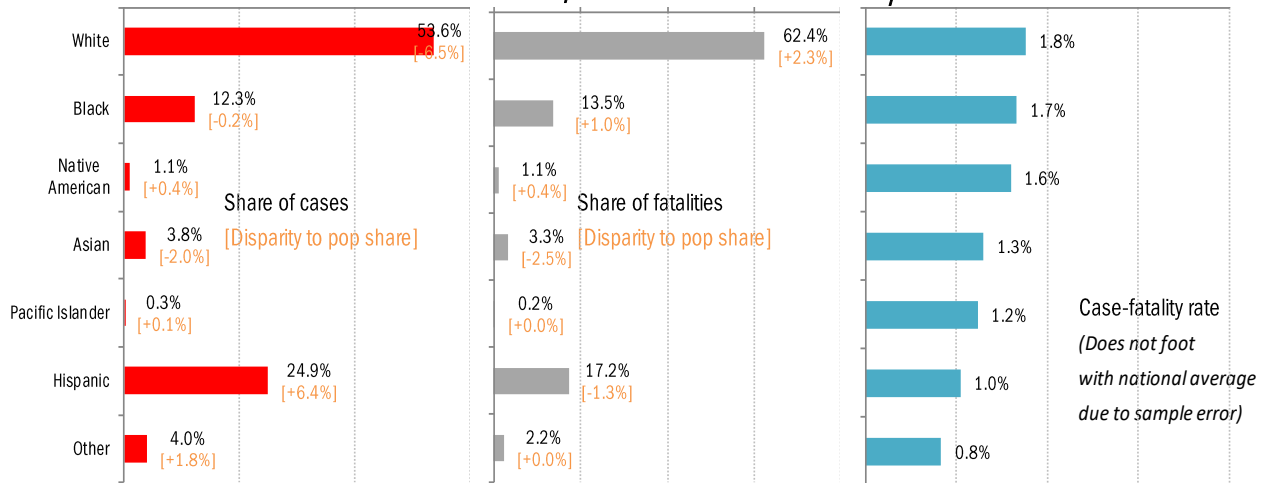


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

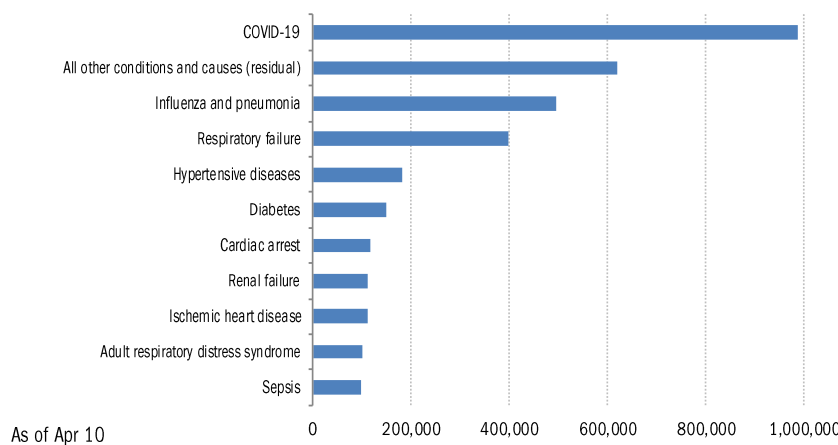


Racial distribution of US cases, fatalities and case-fatality rates



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

[Musk's Shanghai Bullishness Belies Supply Chain Snarls](#)

*Bloomberg*  
April 20, 2022

[Shanghai Sees Number of Severe Covid Cases Triple in 24 Hours](#)

*Bloomberg*  
April 20, 2022

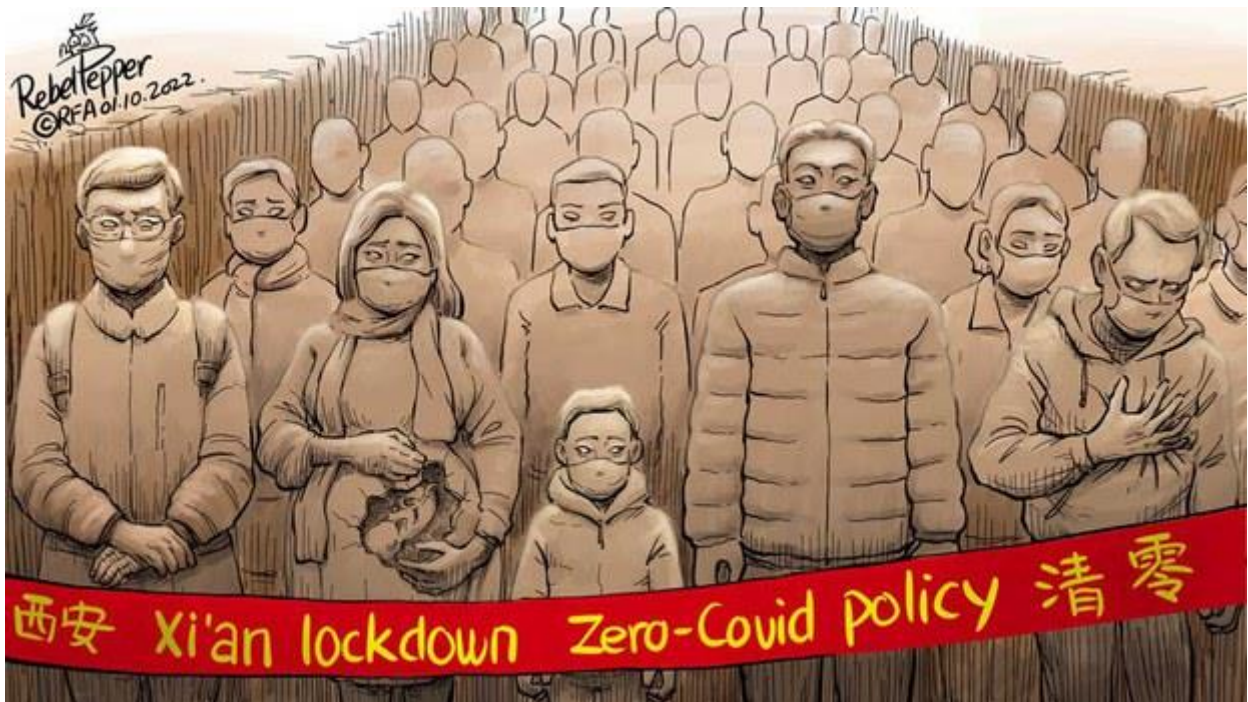
[Elderly Shanghai Woman's Quarantine Ordeal Sparks Outrage](#)

*Bloomberg*  
April 20, 2022

[Shanghai's Moldy Covid Food Packages Prompt Outcry From Public](#)

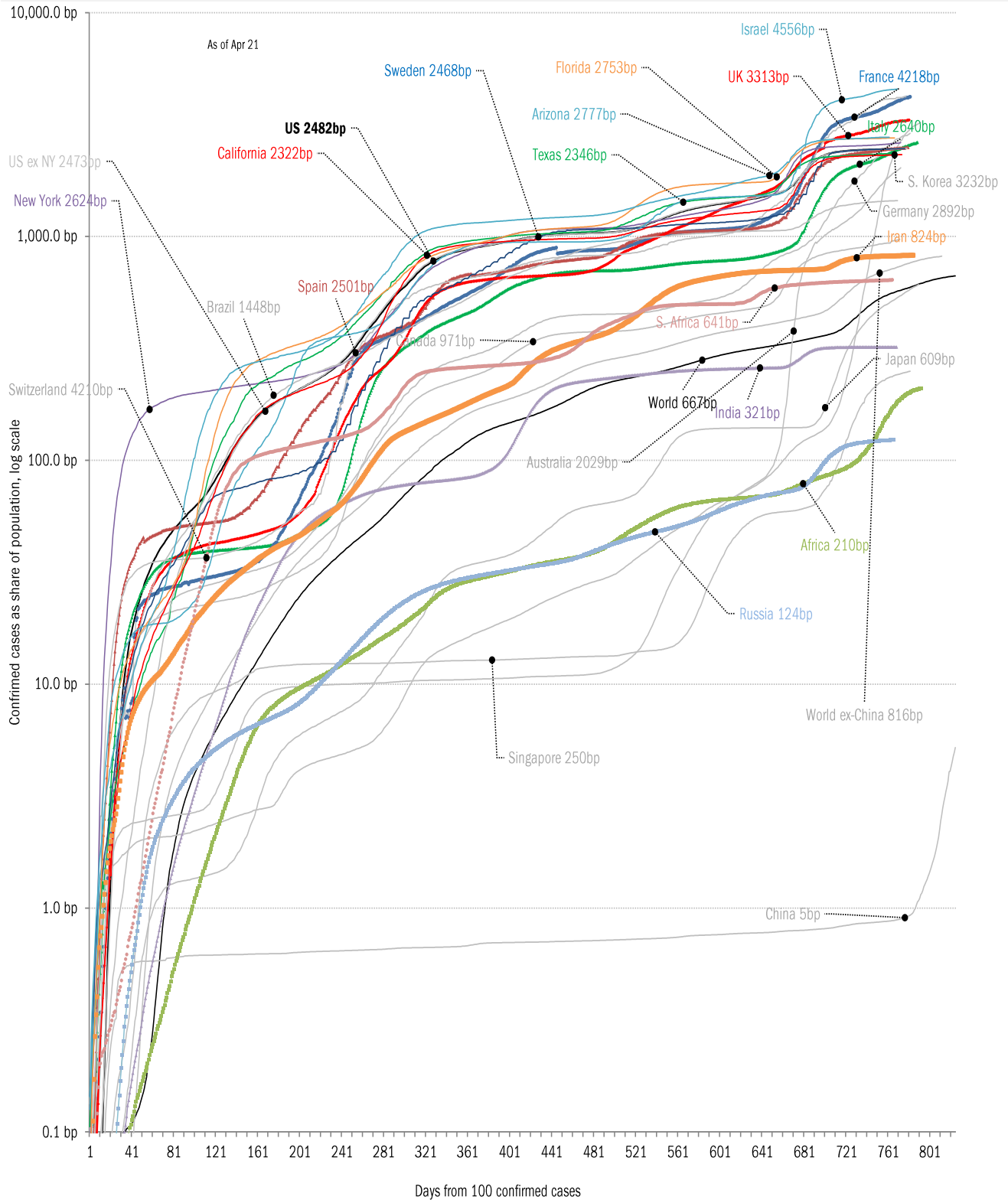
*Bloomberg*  
April 20, 2022

## Meme of the day



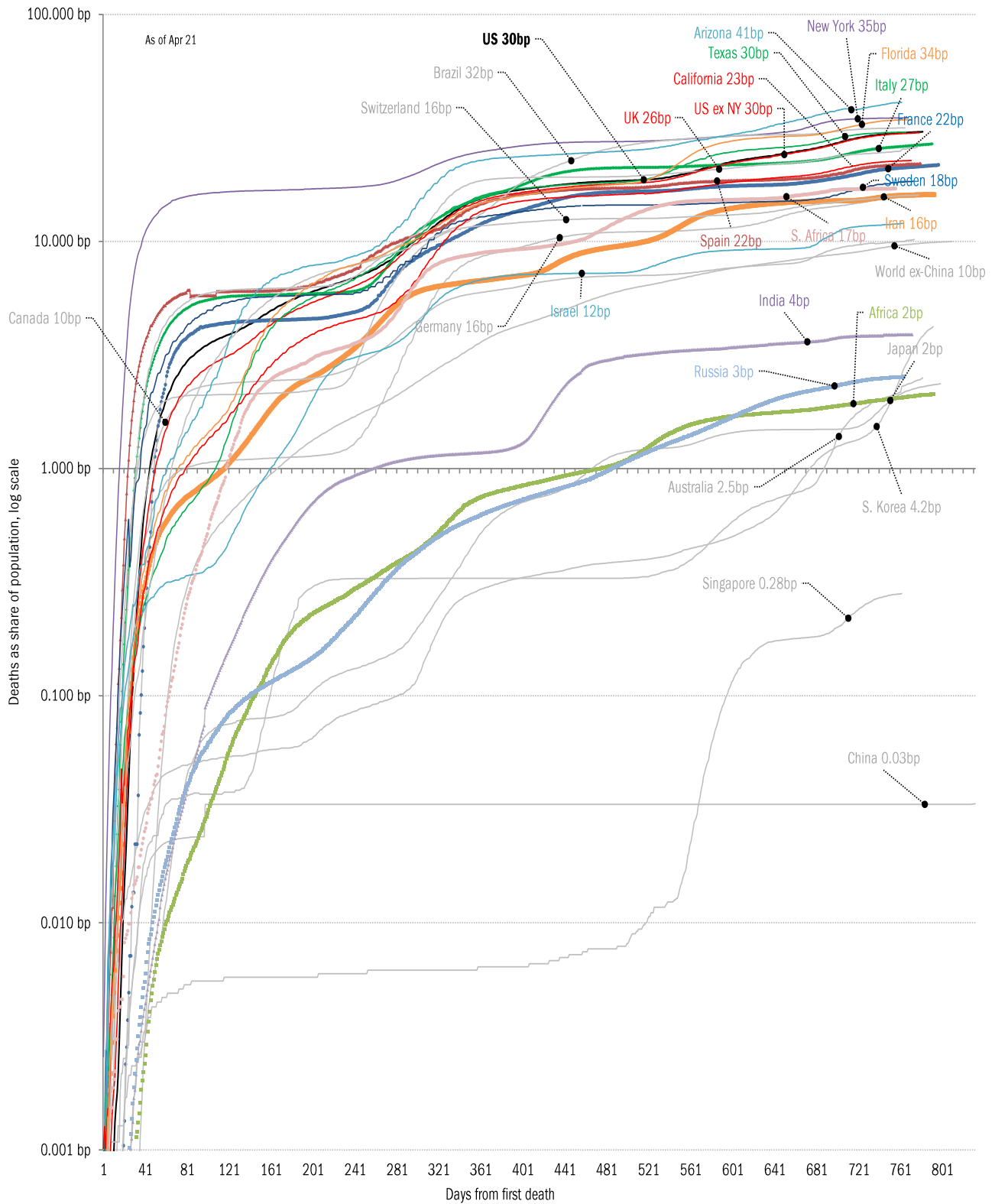
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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, log scale*



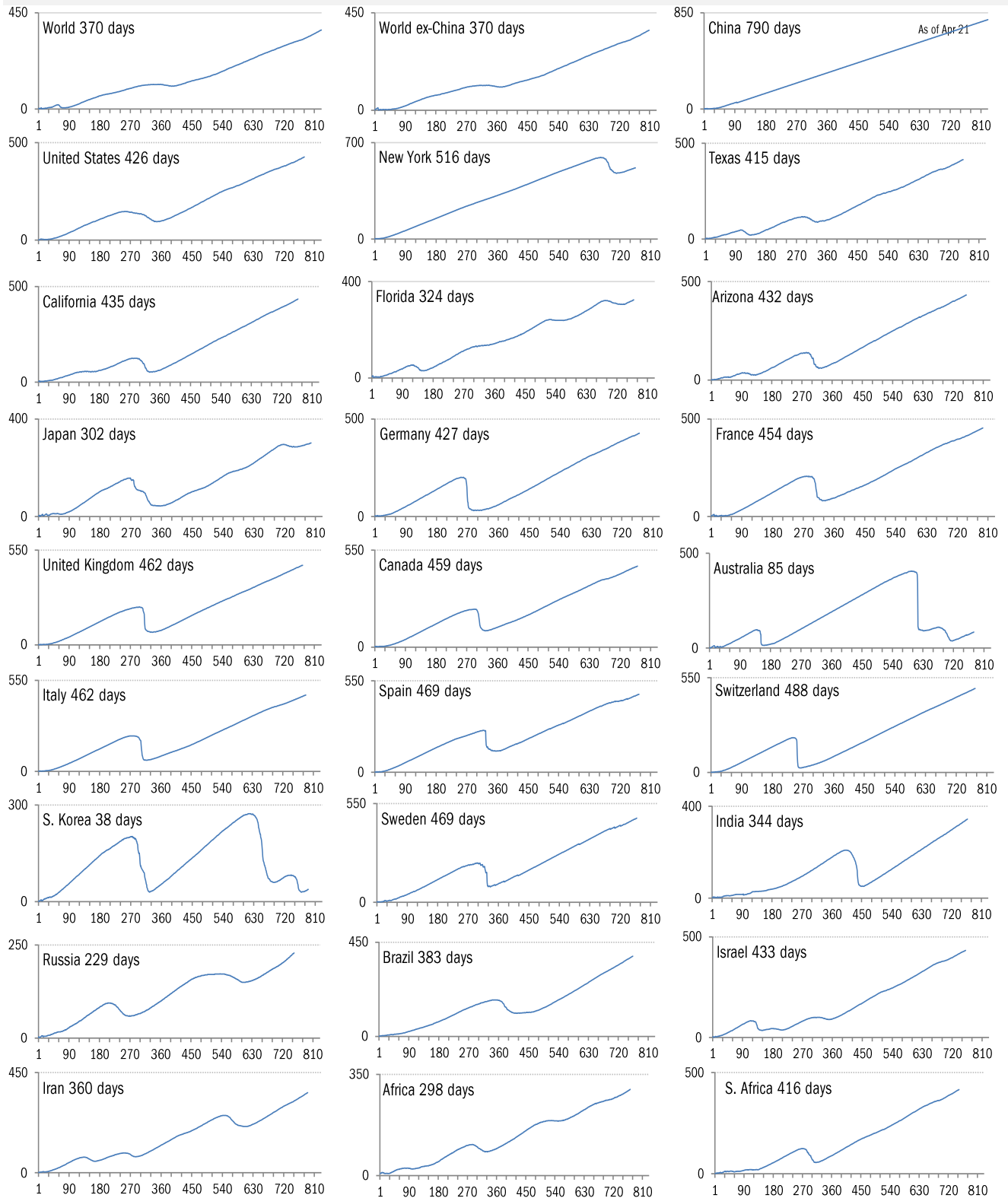
Source: [Johns Hopkins](#), TrendMacro calculations



# 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

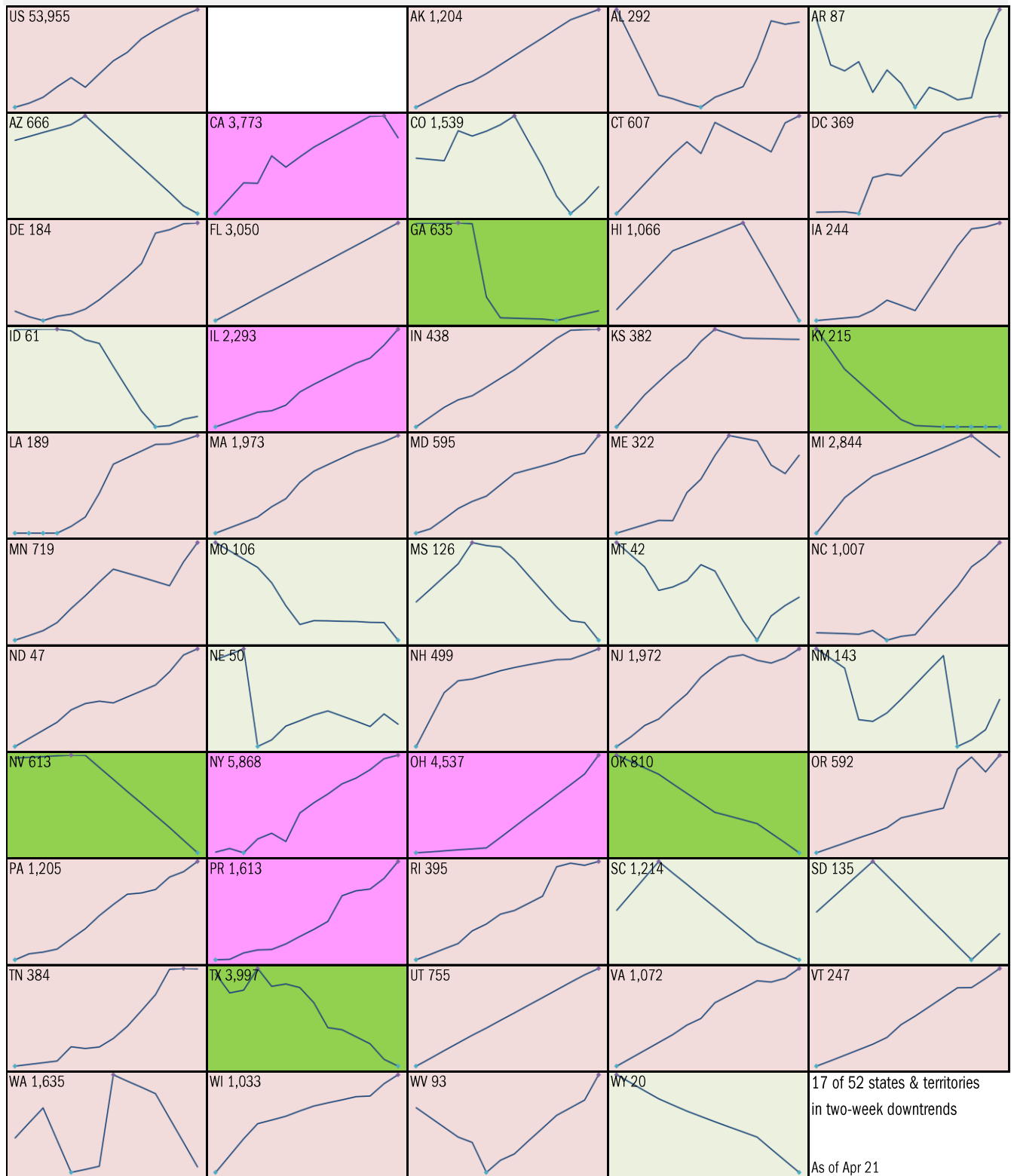


Source: [Johns Hopkins](#), TrendMacro calculations

# 14-day 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

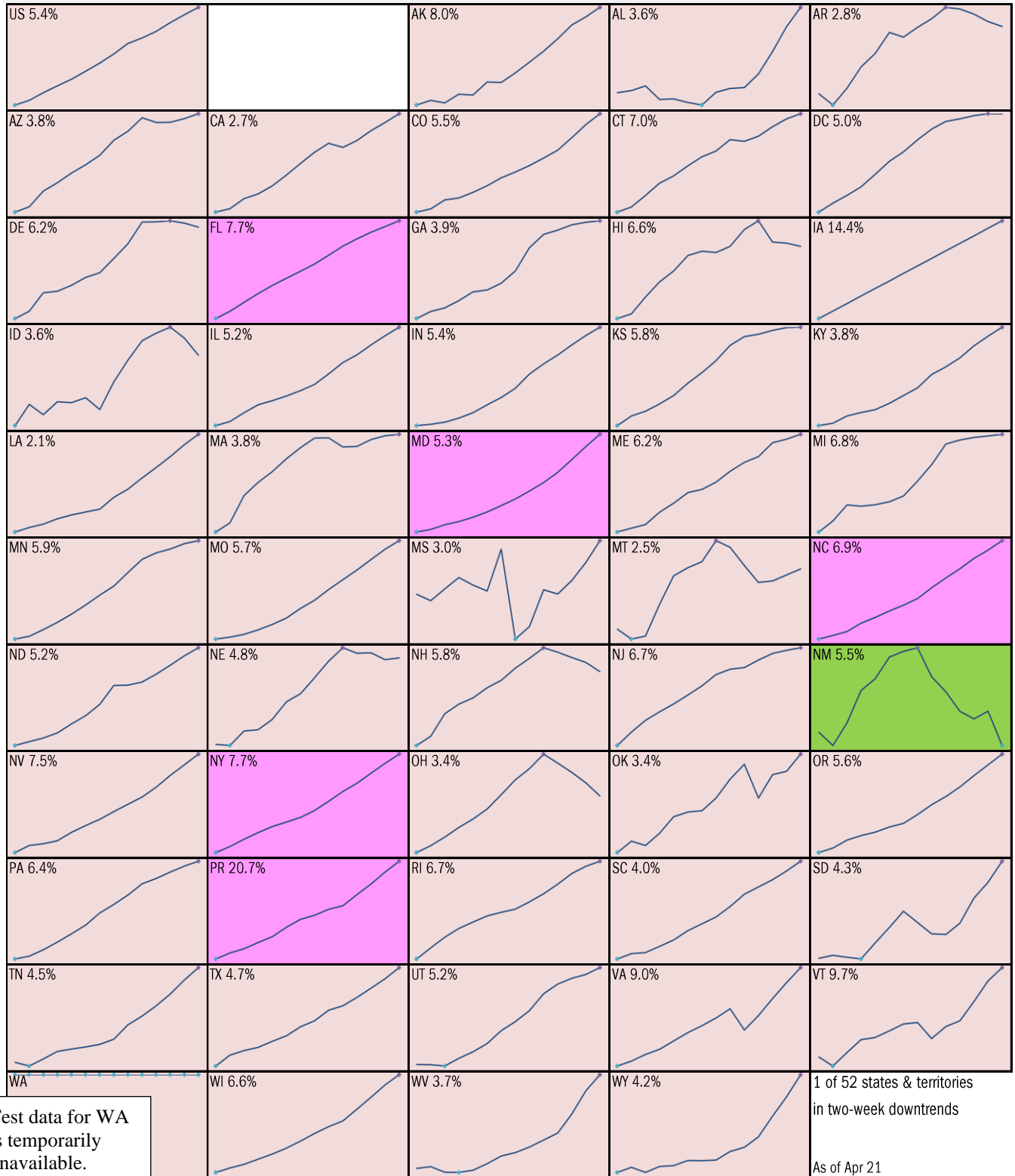


Source: [Johns Hopkins](#), TrendMacro calculations

# 14-day trajectory in **test-positivity ratio**

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

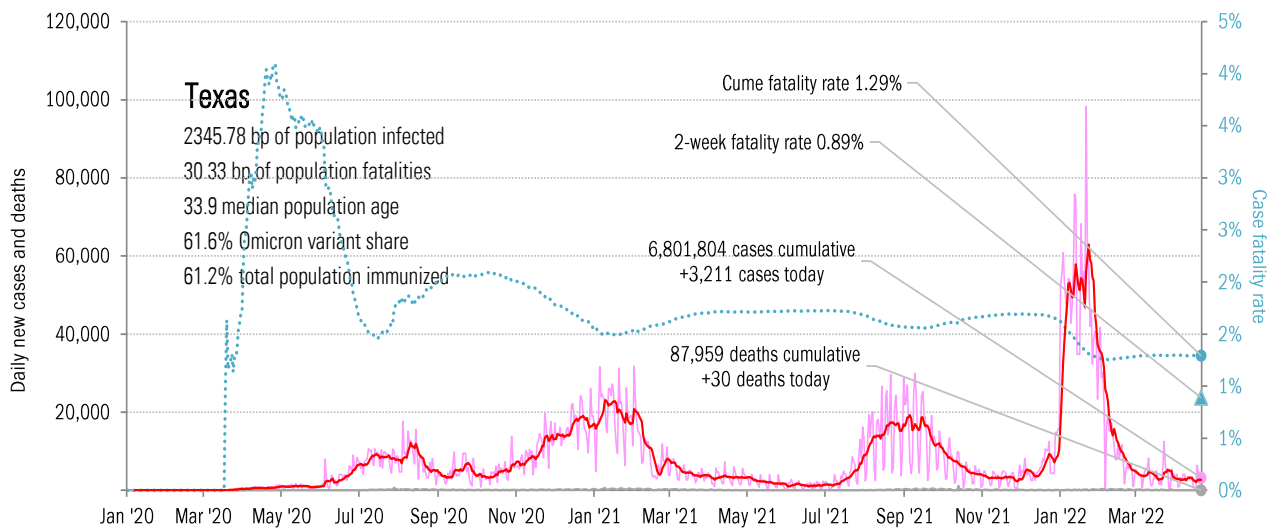
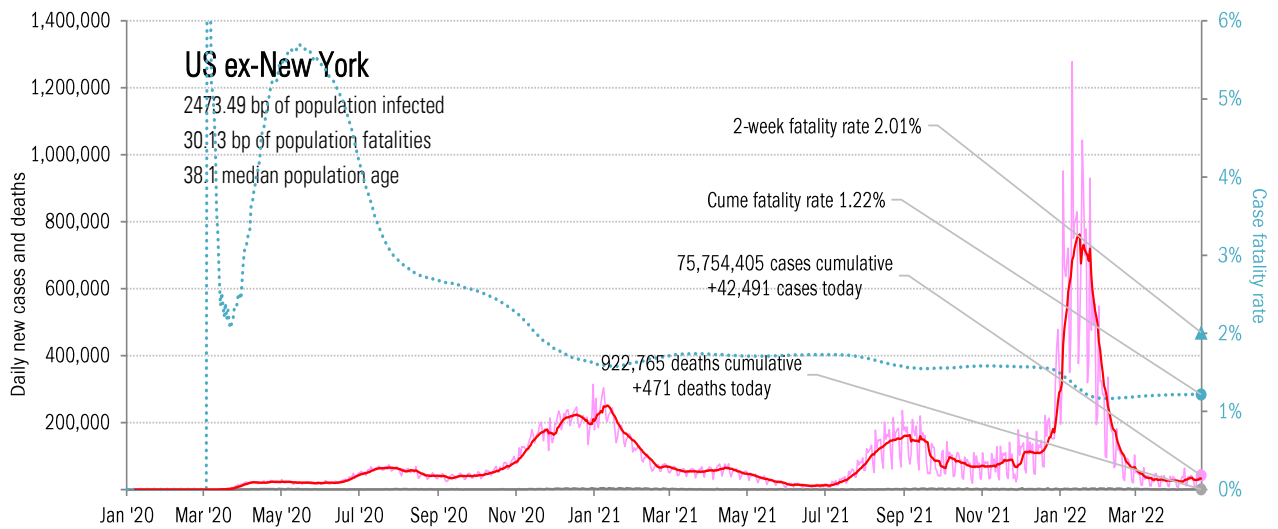
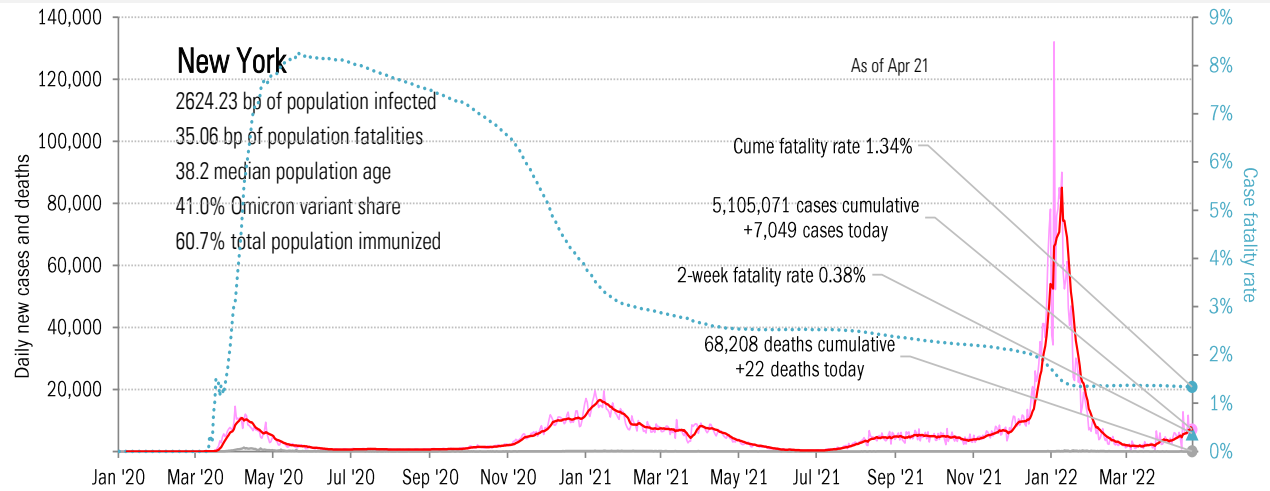
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



Source: [Covid Act Now](https://www.covidactnow.com), TrendMacro calculations

# From Ground Zero to the Rio Grande

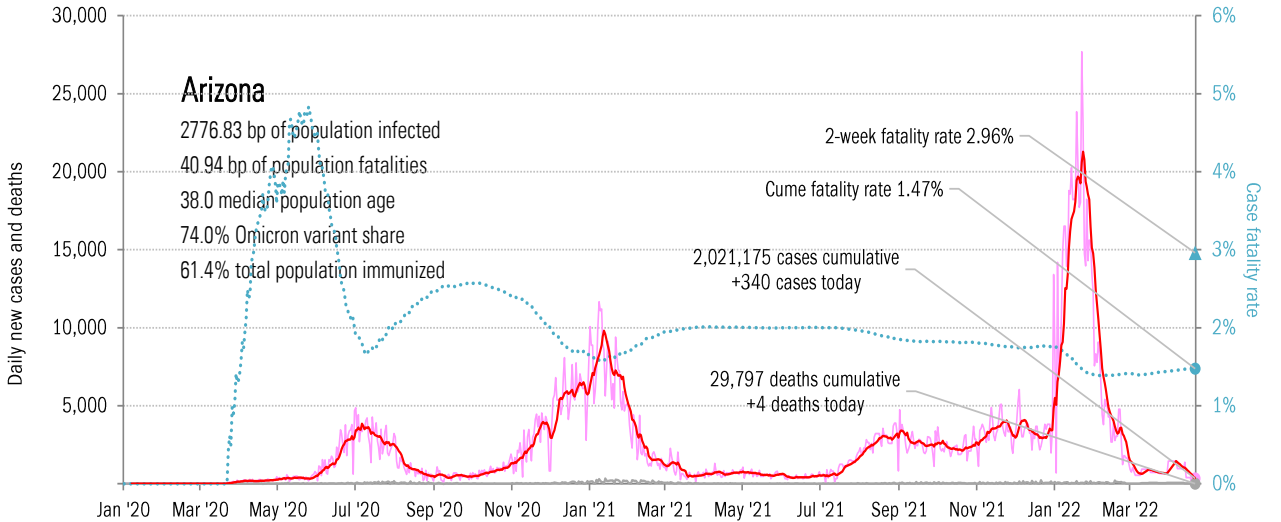
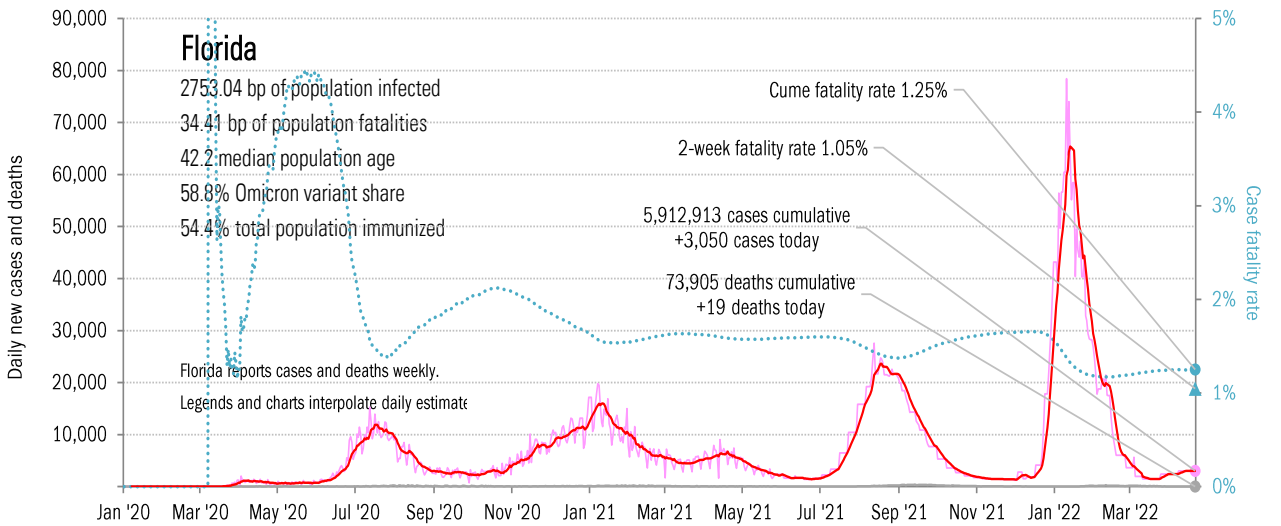
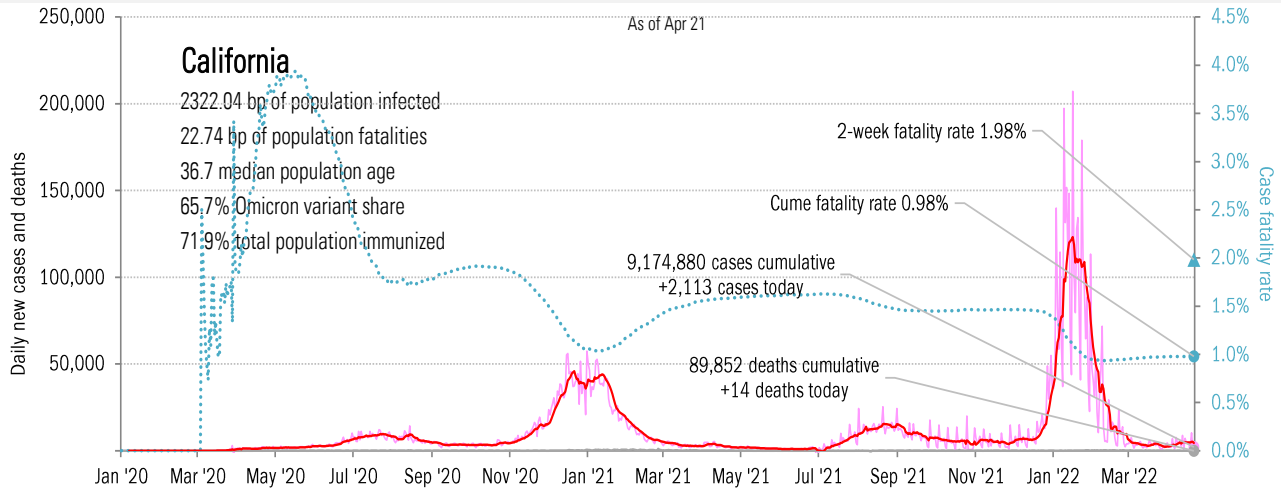
Cases: 7-day average and daily Deaths: Daily



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

# The sun-belt hot-spot states

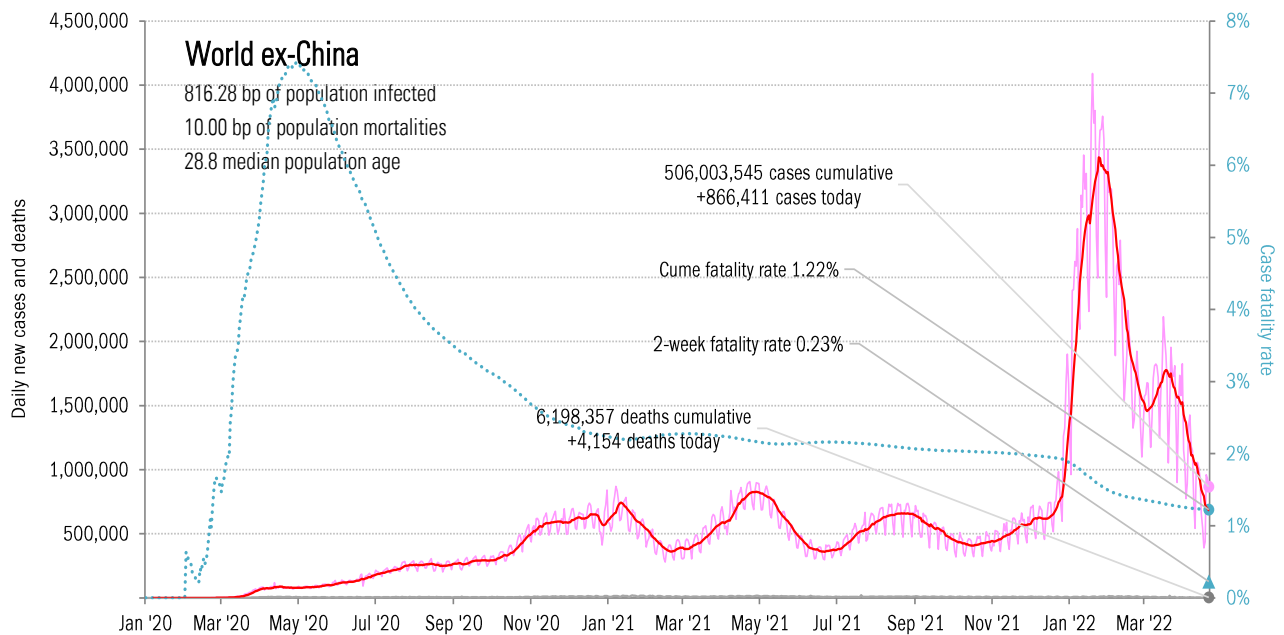
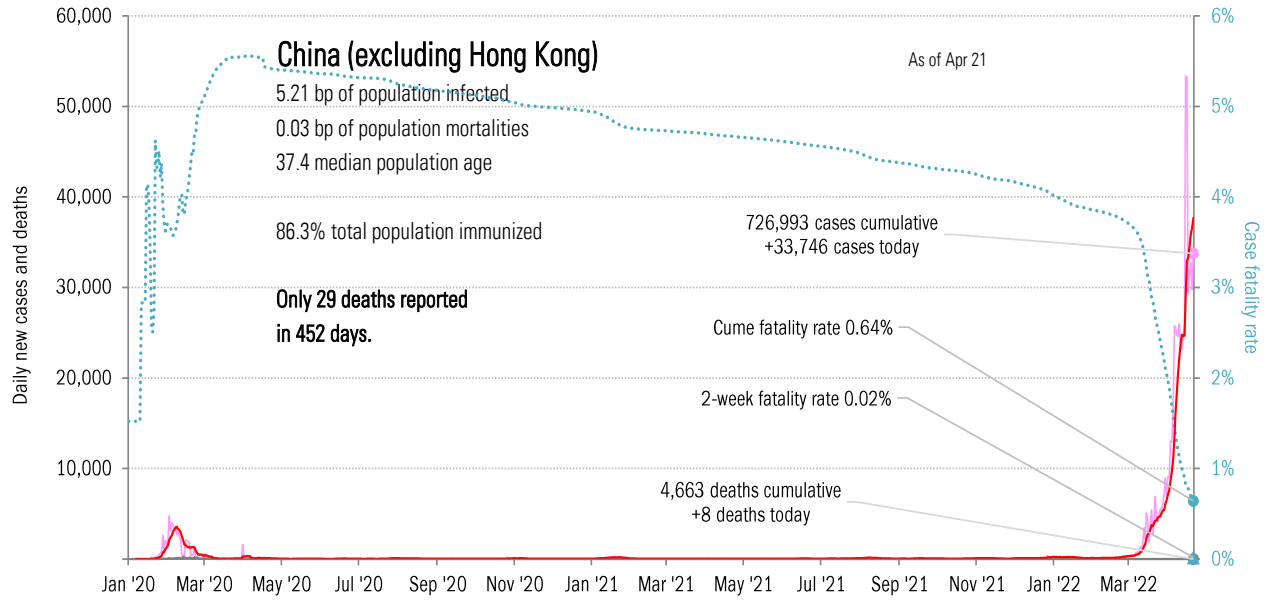
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

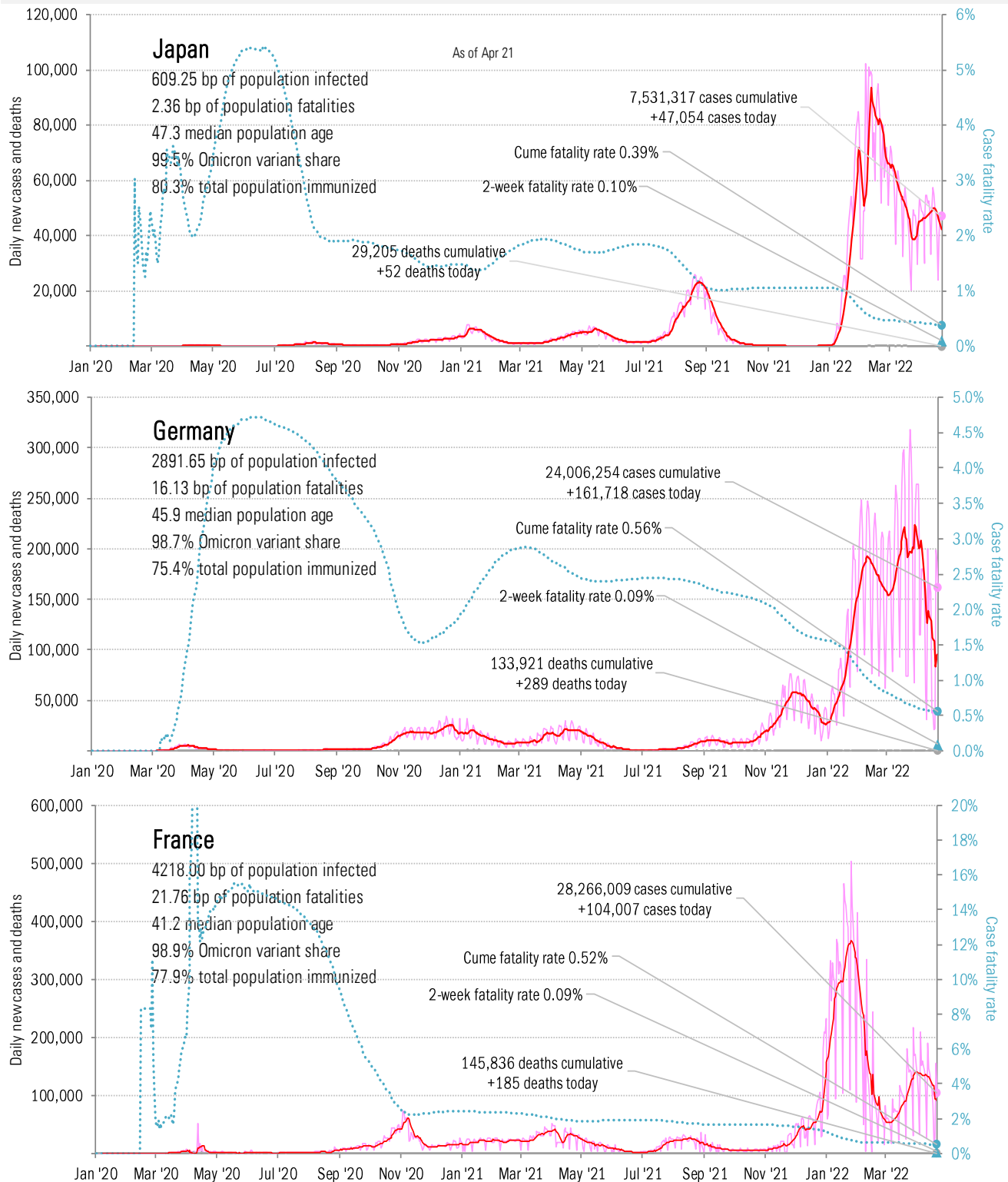
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

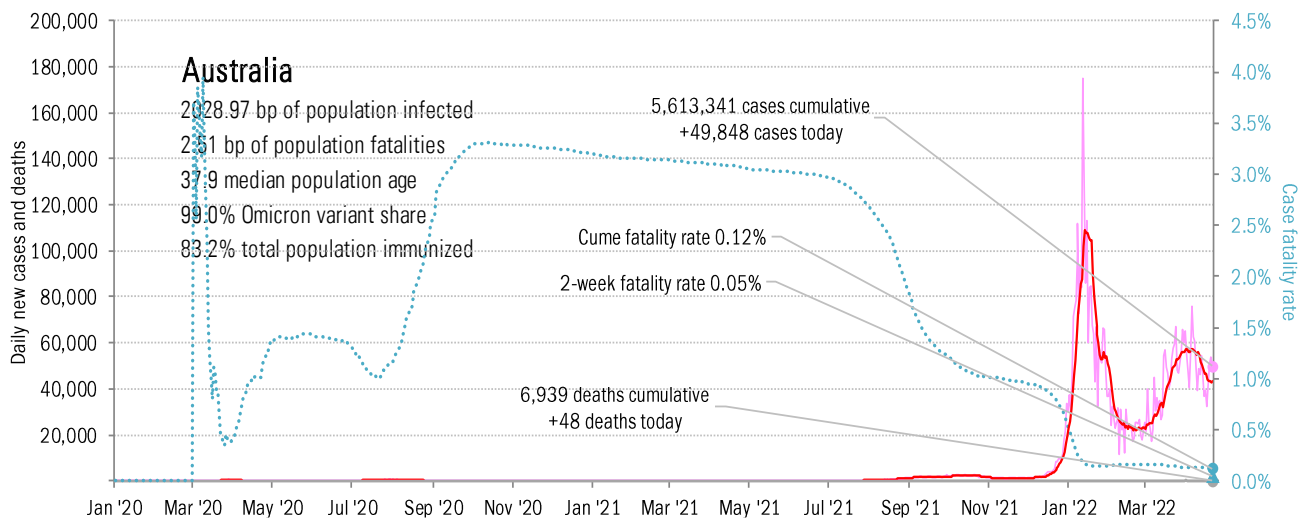
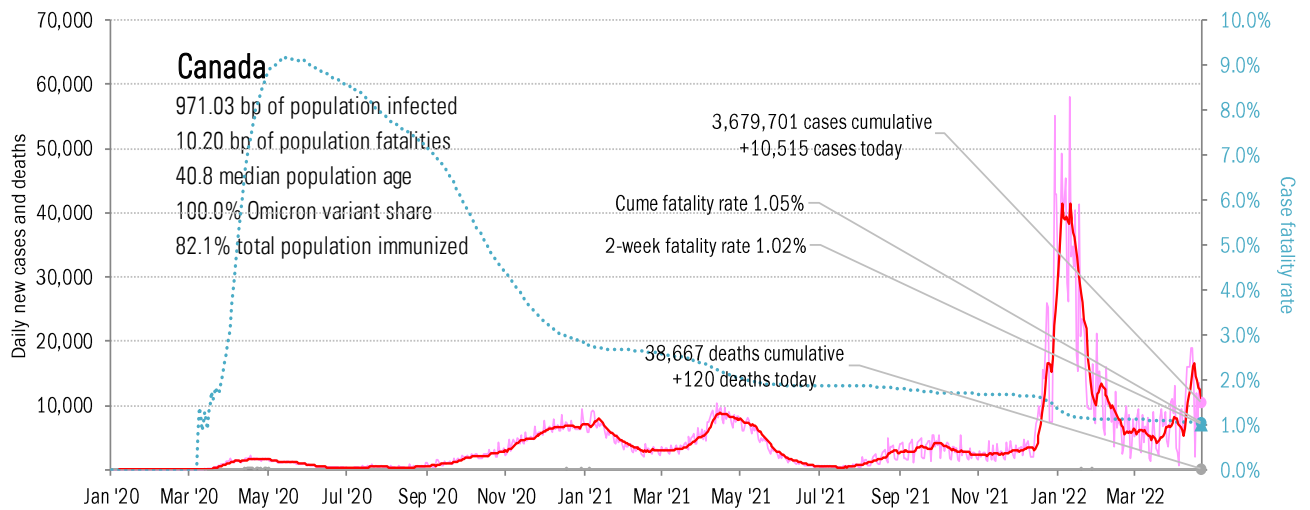
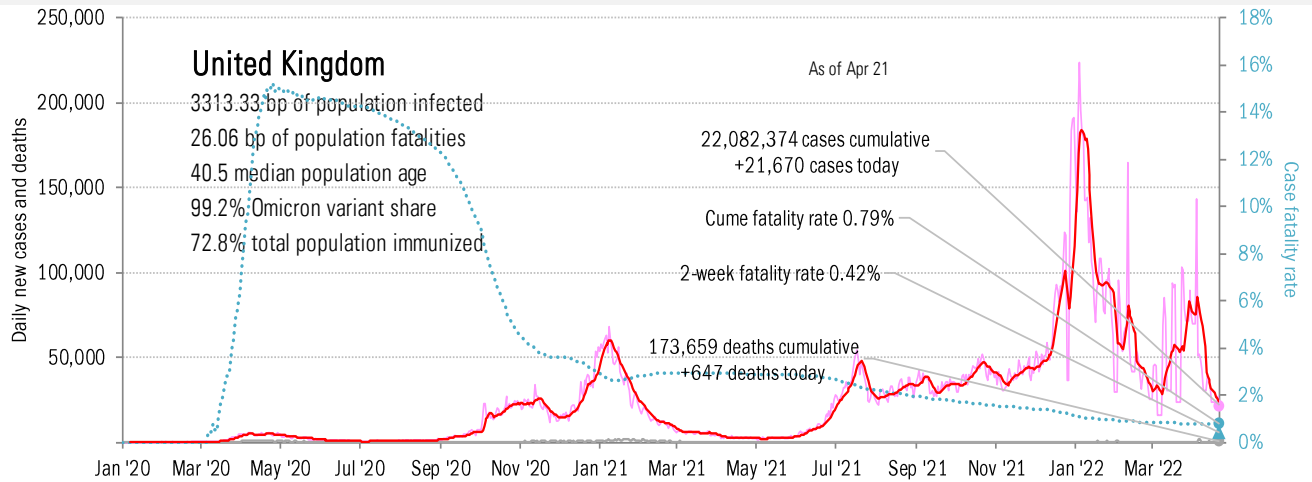
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

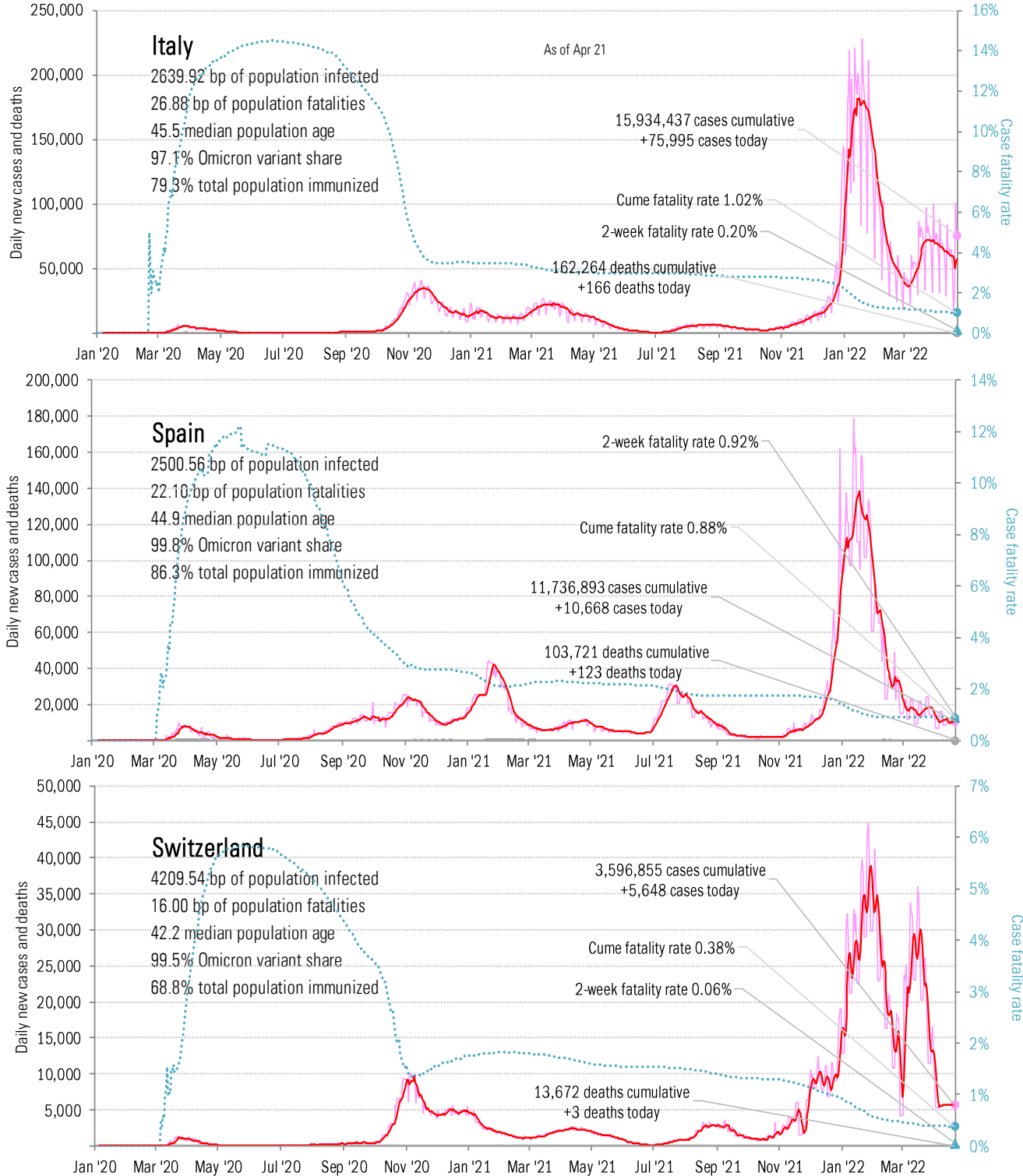


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

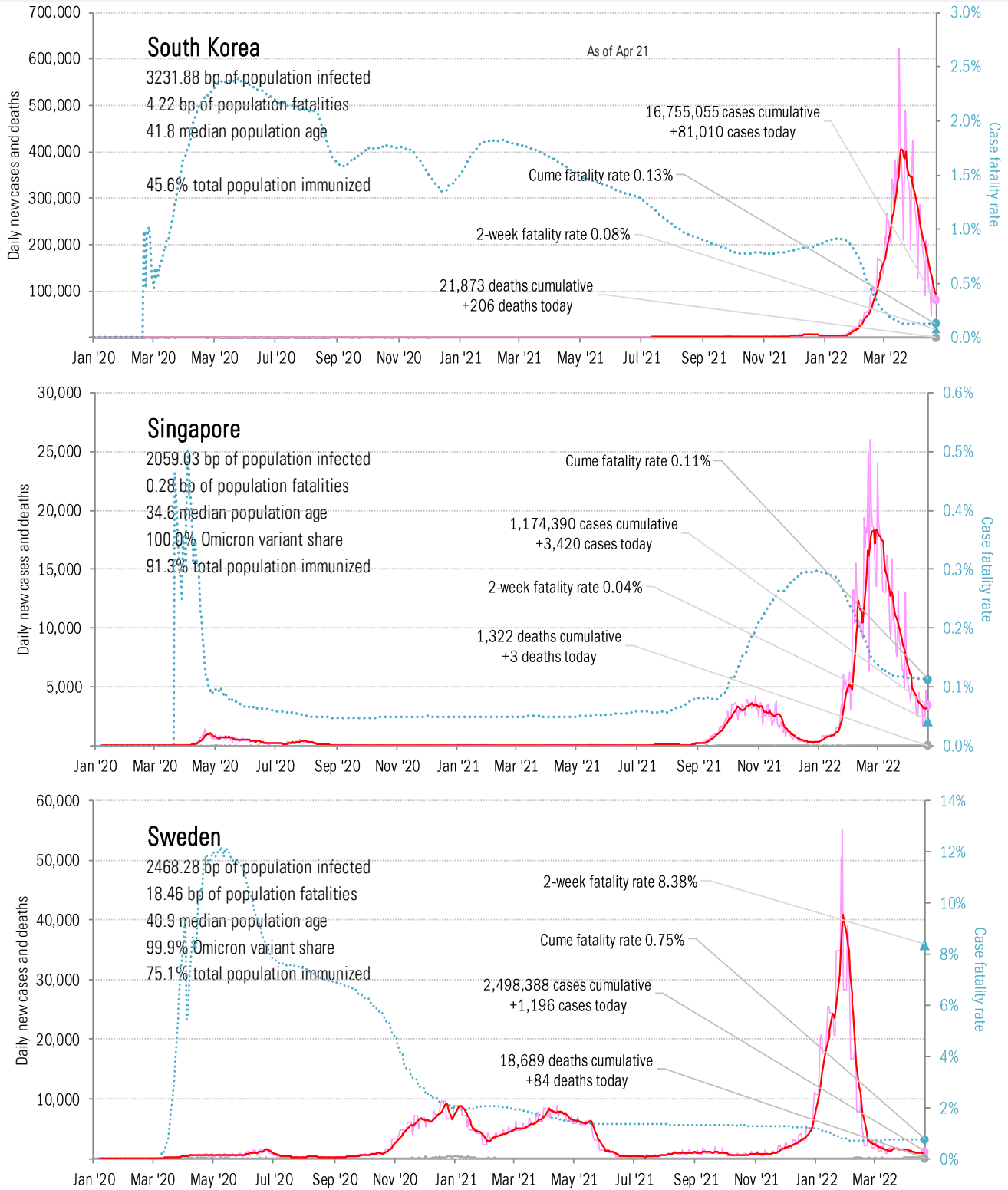
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

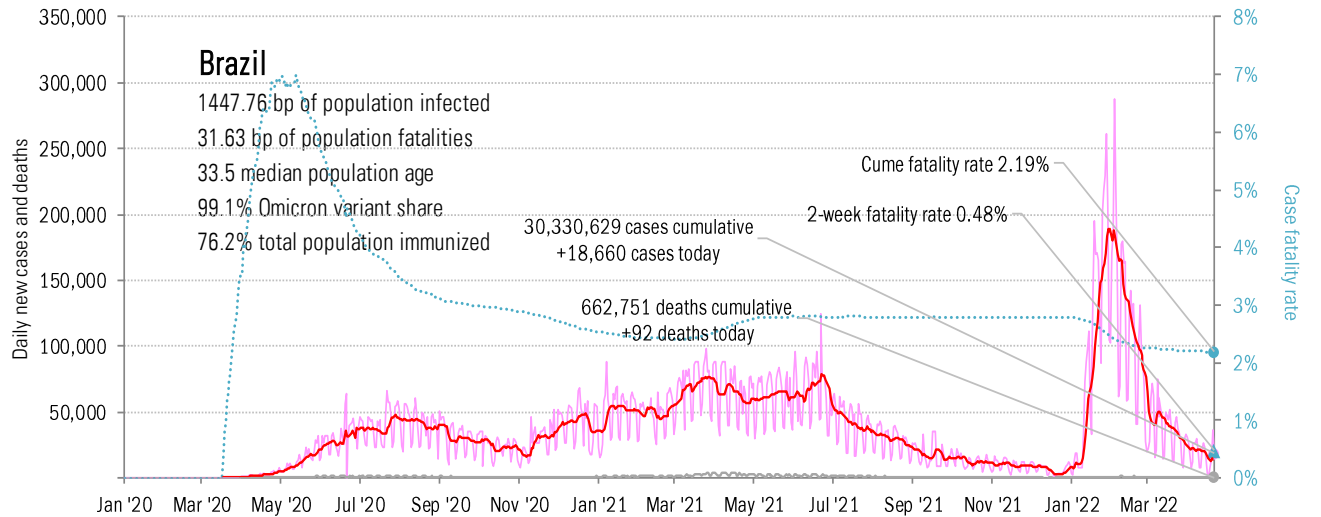
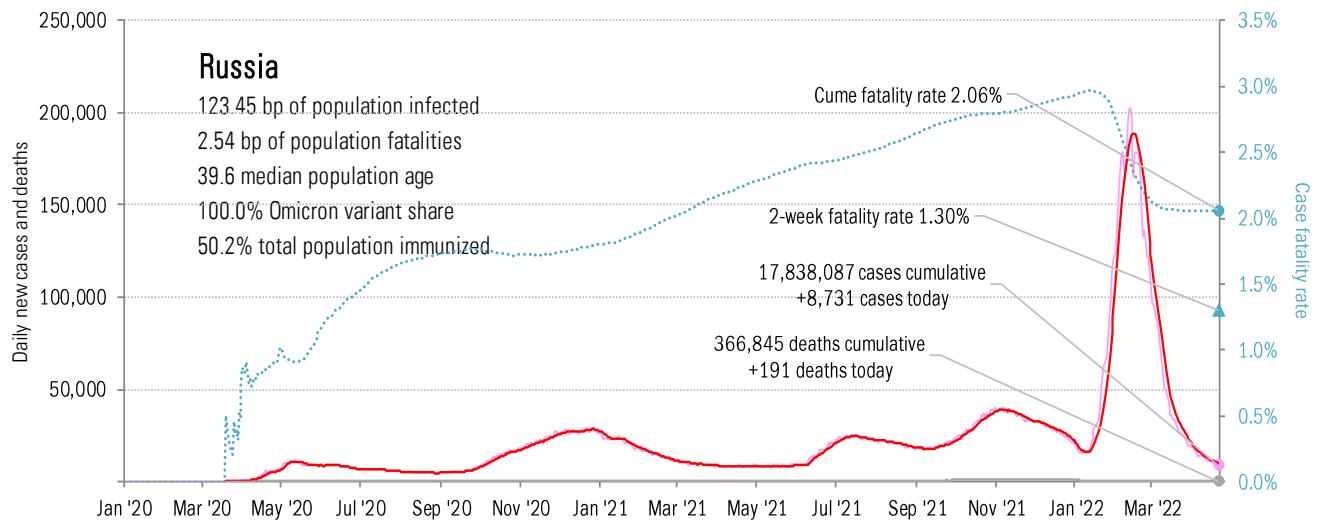
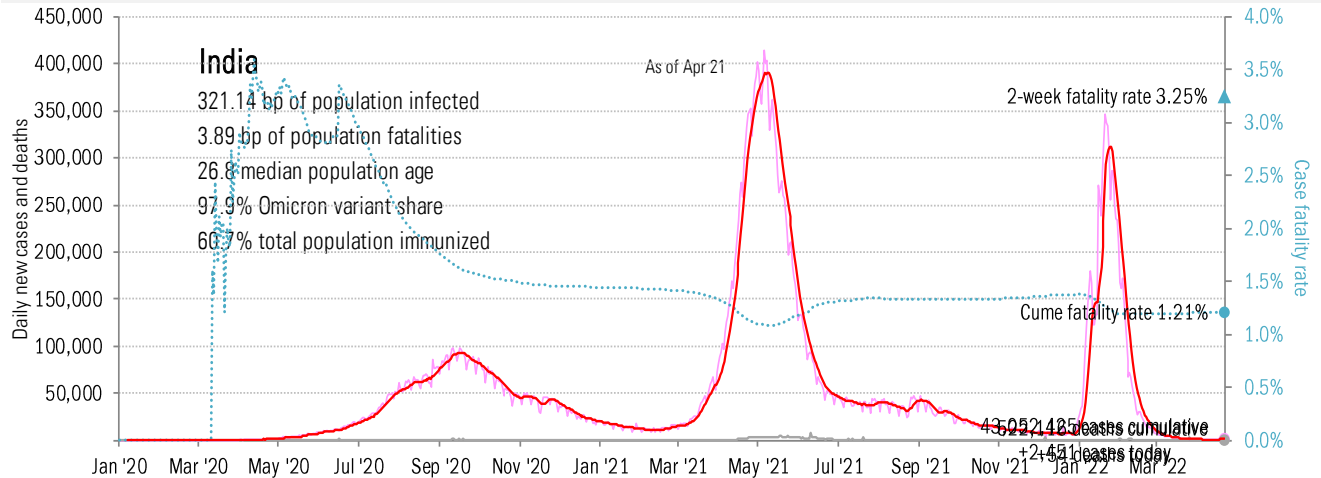
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

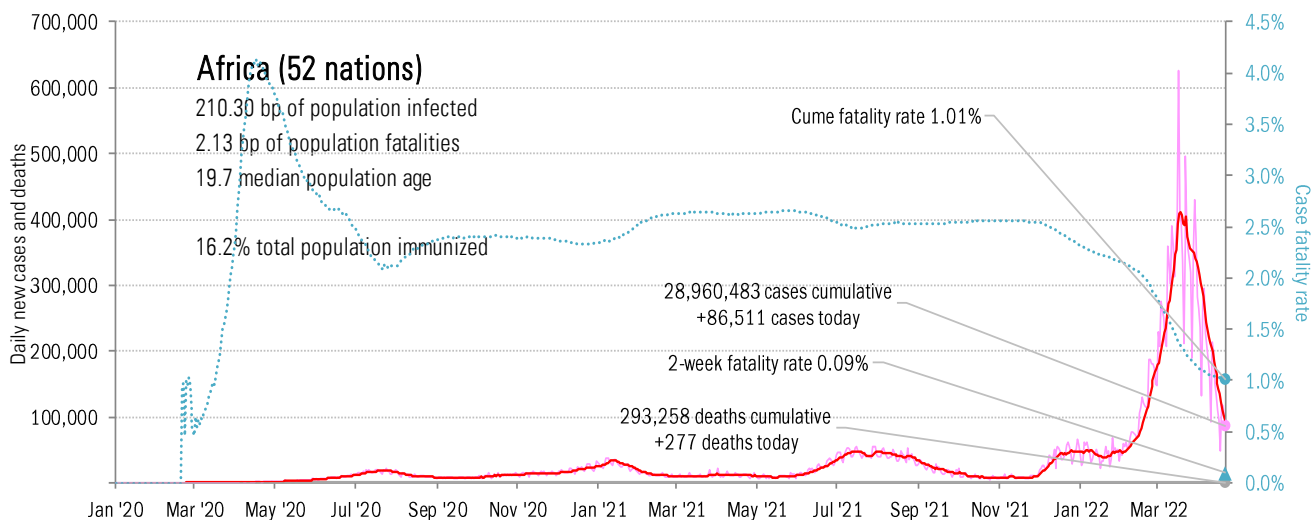
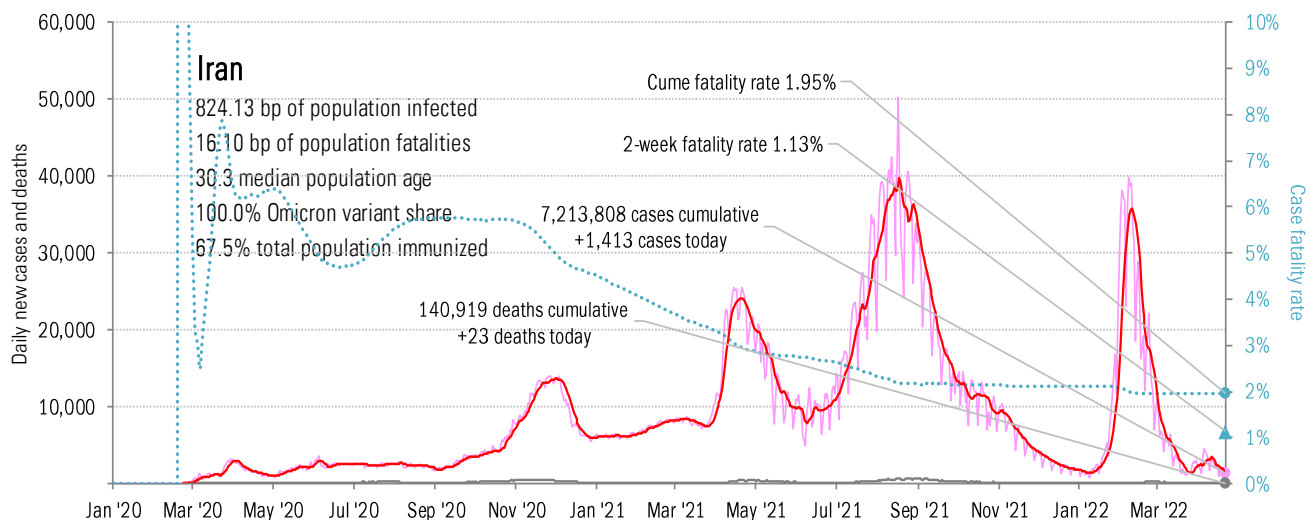
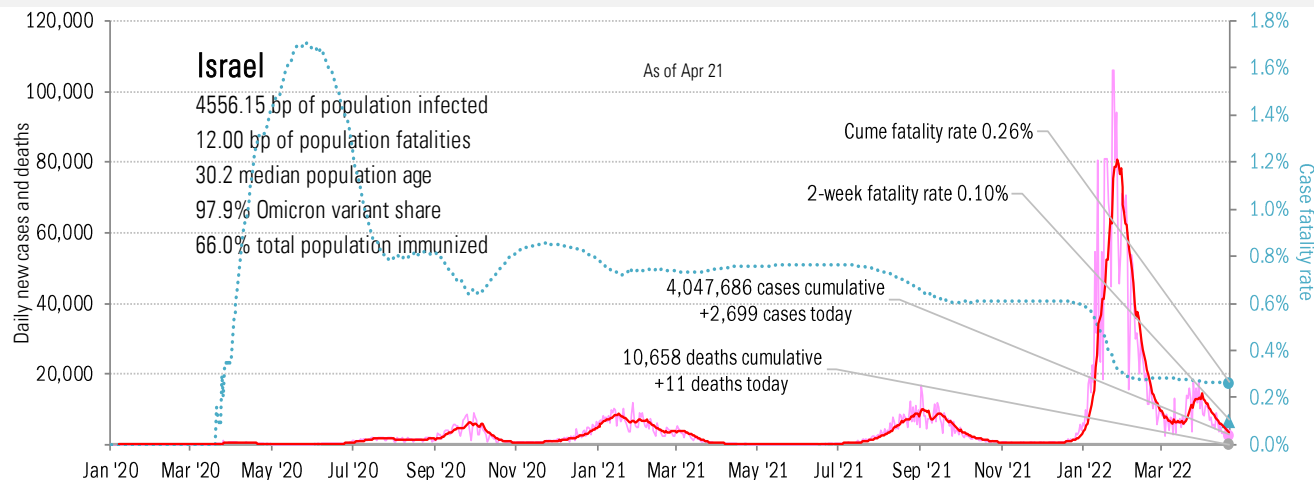
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

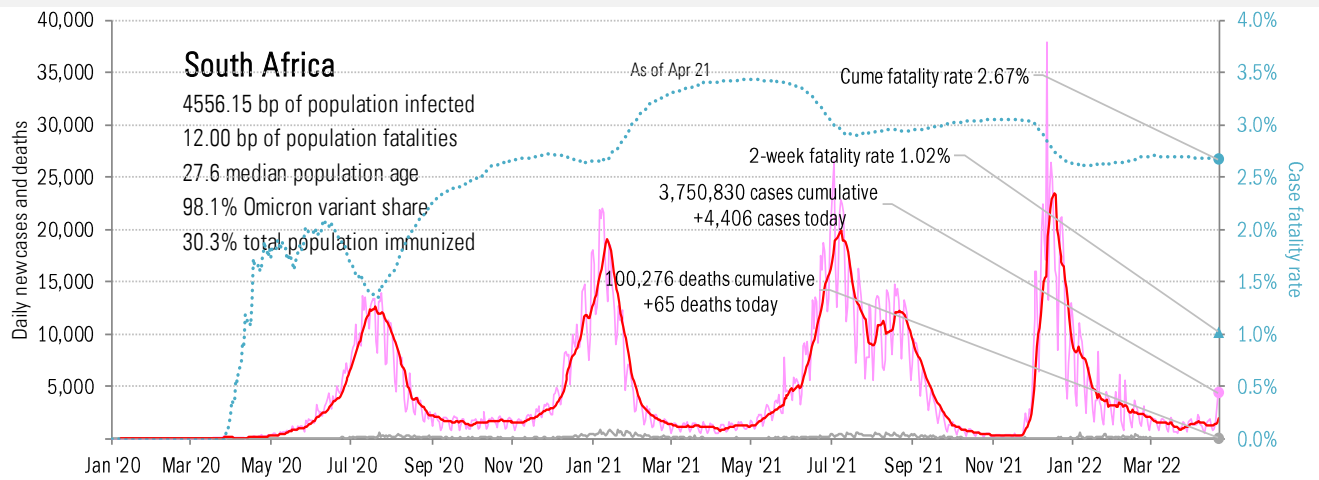
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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