

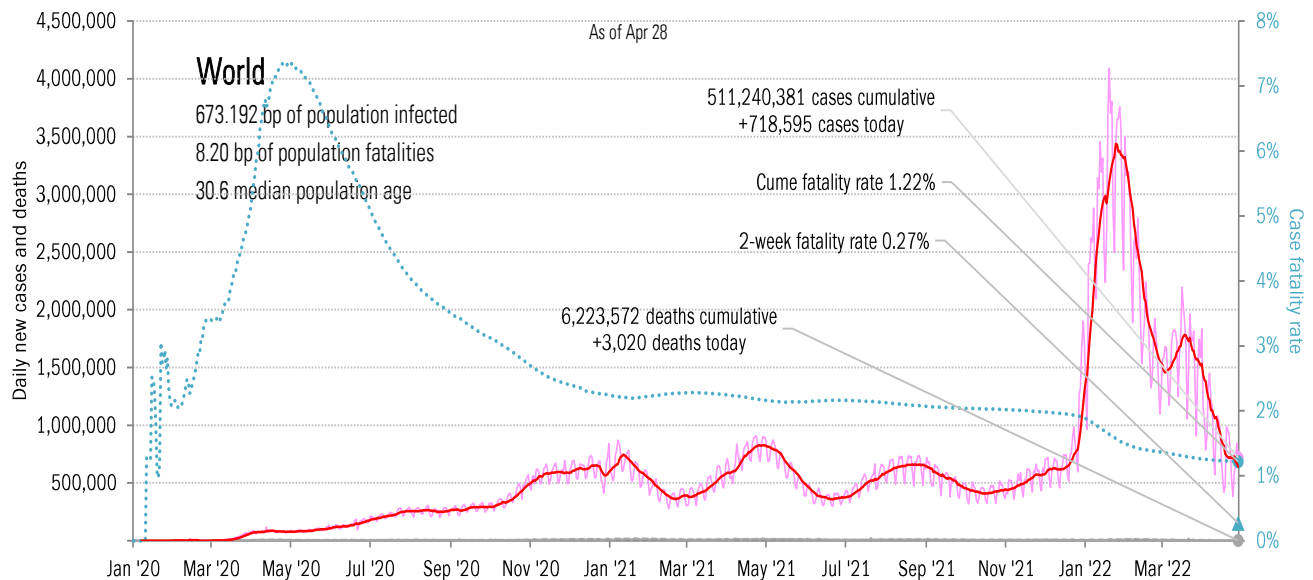
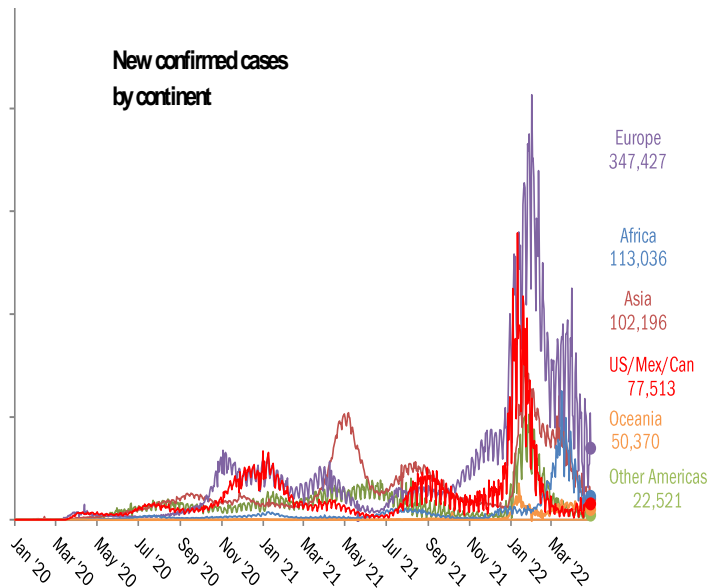
## Data Insights: Covid-2019 Monitor

Friday, April 29, 2022

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
Korea, South	107,990	United States	503
Germany	101,610	Finland	301
Italy	70,034	Korea, South	258
United States	67,784	United Kingdom	248
France	60,023	Germany	214
Australia	41,780	Russia	161
Japan	41,671	Canada	133
China	26,034	France	132
Finland	22,541	Italy	131
Belgium	20,335	Brazil	114
<b>559,802</b>		<b>2,195</b>	
World	718,595	World	3,020
Top ten	78%	Top ten	73%



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

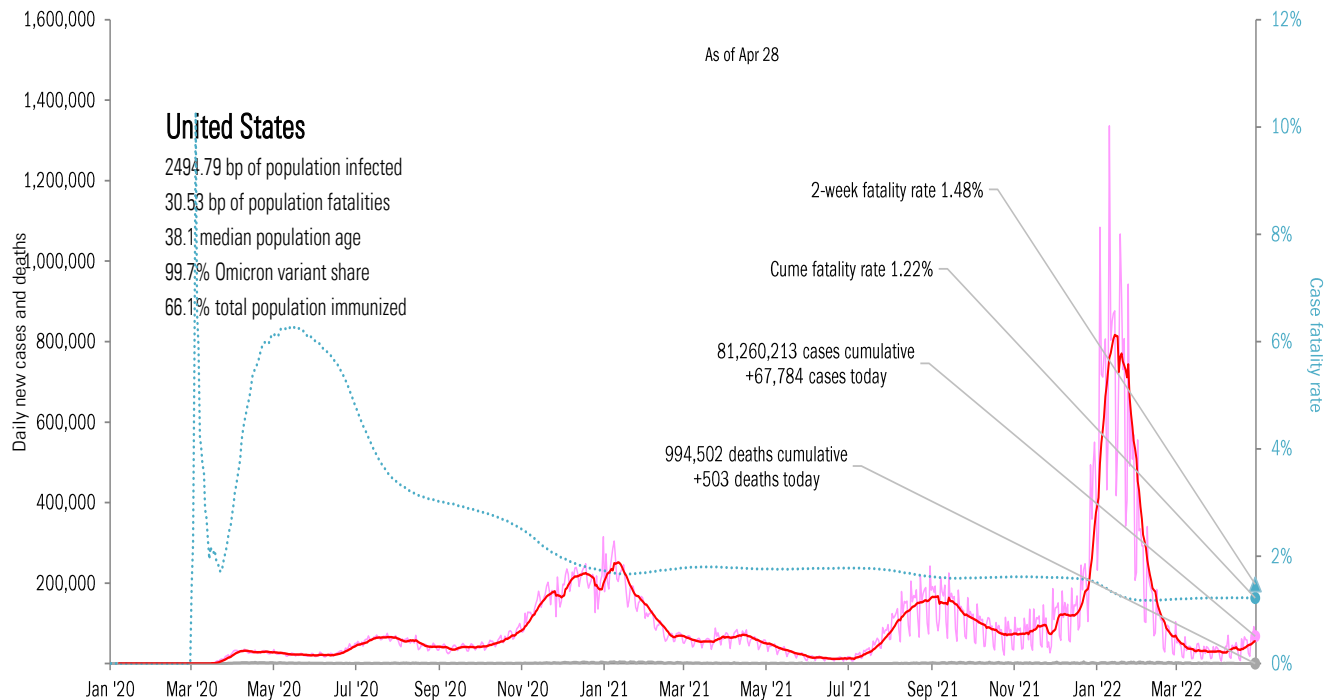
## The ten worst US states

New cases			New deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
NY	9,595	CK	82	CH	151	CA	9,217,769	CA	90,176	TX	489,952	RI	90%	RI	87%						
CH	8,731	CH	68	FL	177	TX	6,820,156	TX	88,077	CA	426,371	MA	87%	WA	85%						
FL	5,196	SC	33	MI	99	FL	5,949,284	FL	74,042	FL	416,596	MN	85%	NH	82%						
IL	4,593	NY	22	IL	120	NY	5,152,633	NY	68,306	NY	250,411	WA	84%	DE	82%						
FR	4,476	TX	20	MA	104	IL	3,132,727	PA	44,641	GA	207,615	WV	83%	TX	81%						
MA	3,744	FL	20	PA	102	PA	2,815,518	CH	38,428	CH	191,582	GA	83%	DC	80%						
TX	3,185	NM	19	CA	172	CH	2,697,058	GA	37,806	PA	177,118	MO	82%	NM	79%						
NJ	3,161	VA	18	GA	60	NC	2,659,255	IL	36,032	IL	158,378	PA	82%	AL	79%						
PA	2,564	AZ	14	NC	51	GA	2,515,139	MI	36,002	MI	142,396	MI	82%	NC	79%						
CA	2,372	PA	12	IN	38	MI	2,425,946	NJ	33,423	KY	133,141	DC	82%	MI	79%						
47,617			308			1,074			43,385,485			546,933			2,593,560						
All states	67,784	503			2,234			All states	81,260,213	994,502			4,709,194			All states	70%	67%			
Top ten	70%	61%			48%			Top ten	53%	55%			55%			Median	76%	73%			

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-14,482	GA	-147	NY	-38	AK	+10 bp
NC	-11,605	FL	-133	CO	-30	AR	+10 bp
GA	-5,979	NV	-68	MO	-20	DE	+10 bp
WA	-3,878	MI	-67	VA	-18	KS	+10 bp
AZ	-3,699	NC	-42	CT	-14	LA	+10 bp

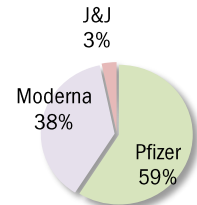


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

Administered	Cumulative		Today	Immunity	Full	Partial
Doses	589,987,053		+0.000 million	US	66.1%	77.6%
Boosters	101,708,871		+0.000 million	UK	72.9%	78.0%
	One dose	% Pop	Immune	% pop	New immune today	
Total population	265,252,751	79%	225,844,371	68%	+0.000 million	France 77.9% 80.2%
Age 12 to 17	17,708,145	70%	15,101,689	60%	+0.000 million	Spain 86.4% 88.1%
Age 18 to 64	178,418,858	88%	151,246,592	74%	+0.000 million	Germany 75.5% 76.0%
Age 65 and over	58,846,641	100%	58,846,641	100%	+0.000 million	Italy 79.4% 84.1%
						Australia 83.4% 86.4%
						Israel 66.0% 72.2%
						Canada 82.2% 88.6%
						Japan 80.5% 81.8%
						Africa 16.2% 21.3%
						India 61.4% 71.9%
						Brazil 76.6% 85.3%
						China 86.5% 89.0%

The CDC did not update vaccination data today.



AK	69.8%
	62.3%

State
At least partial immunity as % population
Full immunity as % population

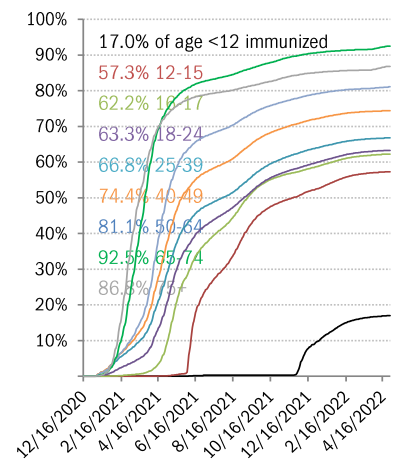
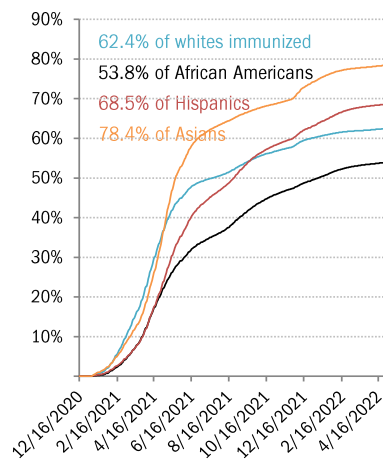
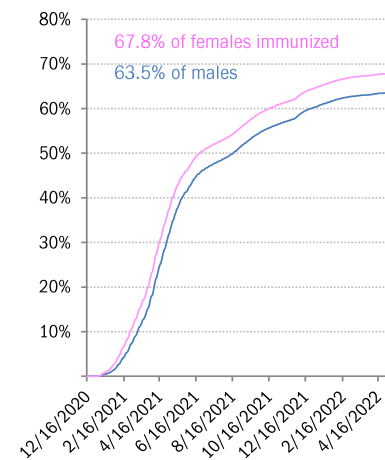
Best
Middle
Worst

\*Immunity\* = two doses

As of Apr 28

					WI					ME
					71.8%					90.4%
					65.5%					79.5%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
80.7%	61.1%	65.2%	64.8%	75.0%	76.7%	66.9%		90.1%	93.4%	87.9%
72.5%	54.0%	56.7%	54.9%	69.1%	68.7%	60.1%		76.8%	81.1%	70.2%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
77.8%	75.2%	58.8%	76.4%	67.9%	61.4%	63.5%	84.8%	90.3%	95.0%	
69.6%	60.8%	51.5%	61.4%	61.9%	54.8%	58.3%	68.3%	75.6%	78.9%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
83.6%	72.0%	79.3%	70.2%	66.1%	66.1%	64.9%	85.6%	86.4%	95.0%	95.0%
72.0%	64.2%	70.2%	63.5%	56.0%	57.3%	57.5%	73.1%	75.5%	79.1%	82.4%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	73.0%	87.6%	74.4%	66.6%	62.1%	84.1%	67.3%	95.0%	83.0%	
	61.5%	71.0%	61.4%	54.4%	54.5%	61.0%	56.6%	74.1%	69.1%	
			OK	LA	MS	AL	GA			
			71.0%	61.0%	59.6%	62.7%	65.3%			
			57.2%	53.5%	51.8%	51.1%	54.7%			
			TX					FL		PR
			73.0%					79.2%		94.9%
			61.4%					66.9%		82.9%

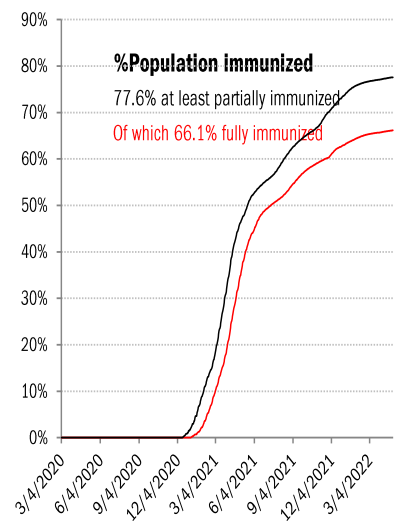
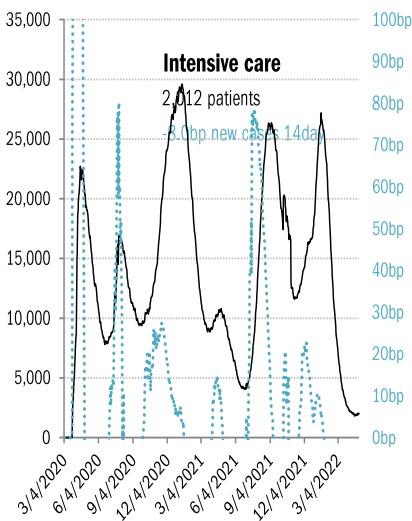
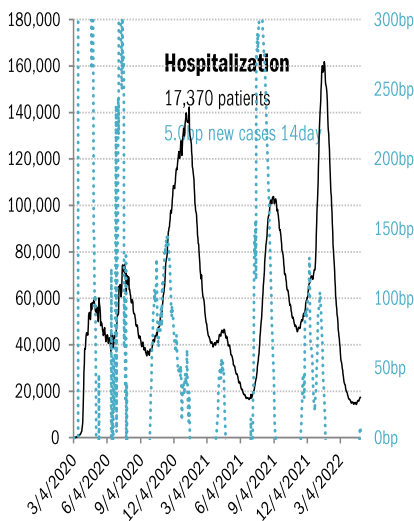
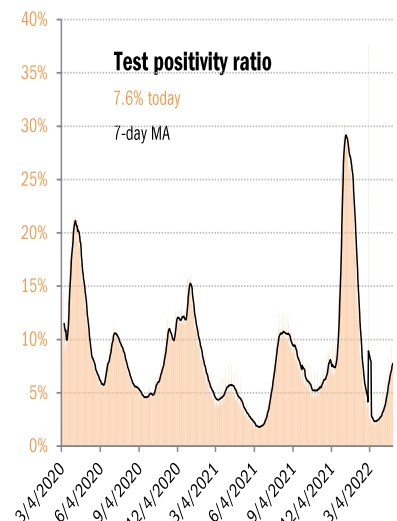
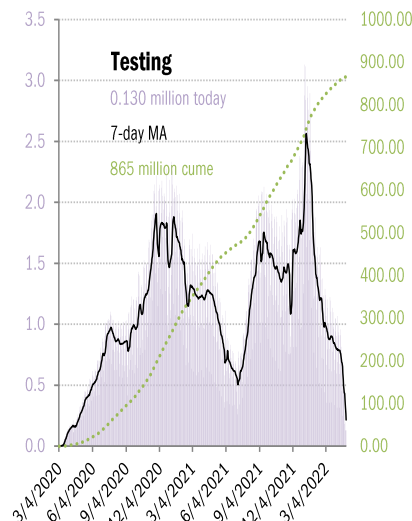
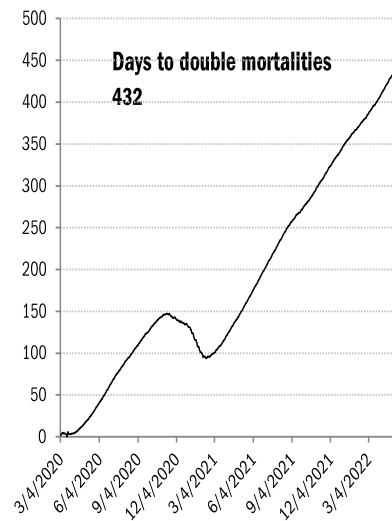
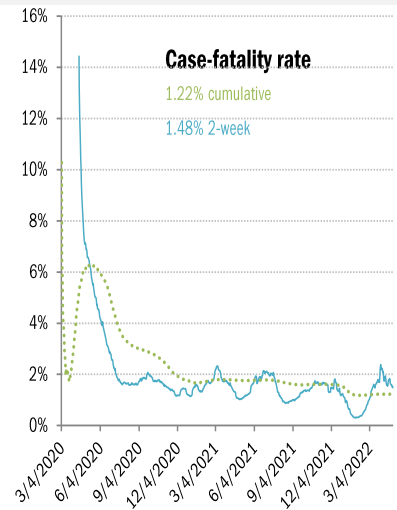
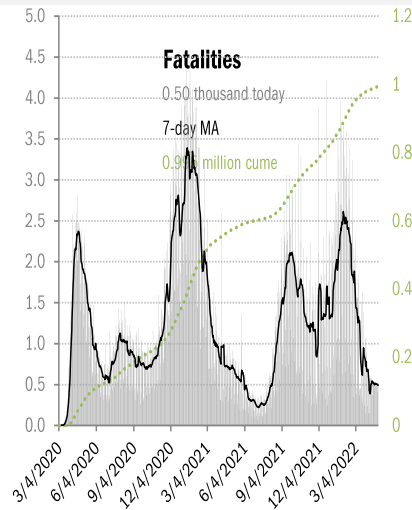
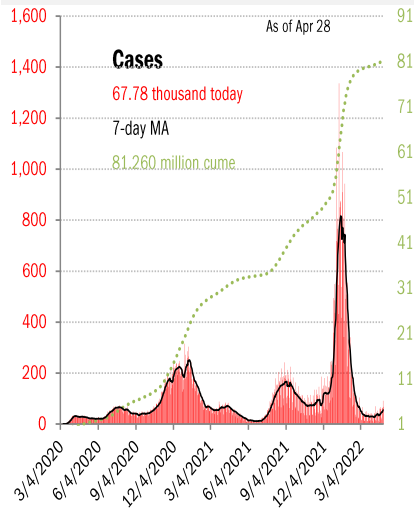
## The demographics of US vaccination



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

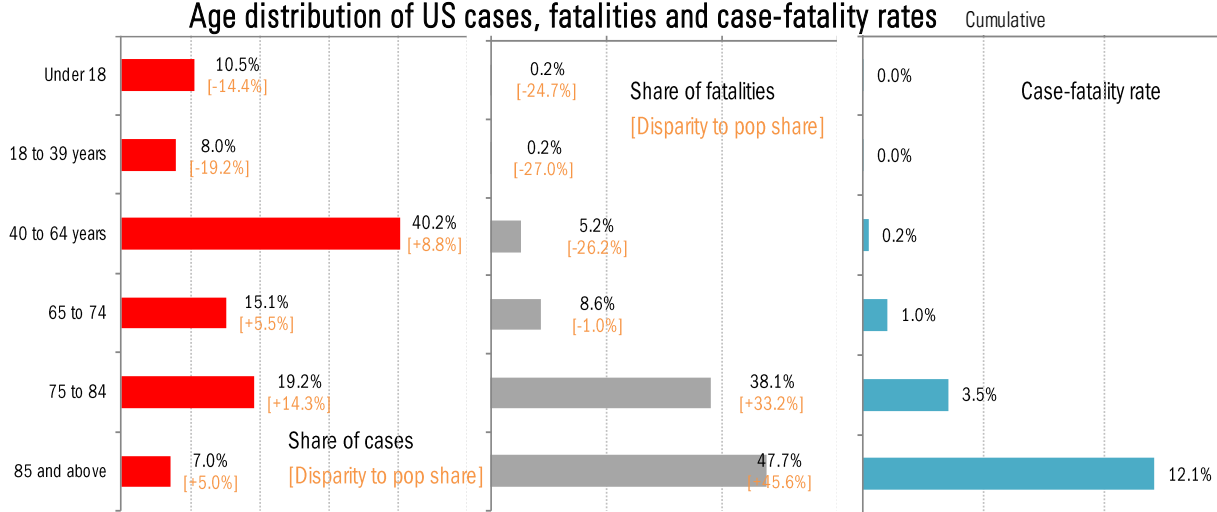
# US deep-dive

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

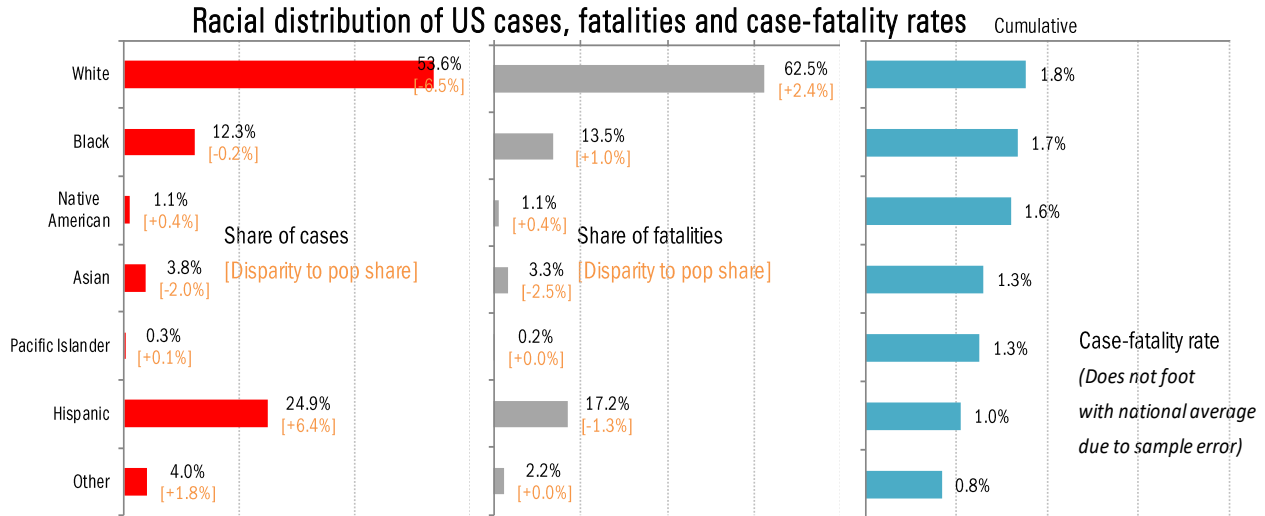


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

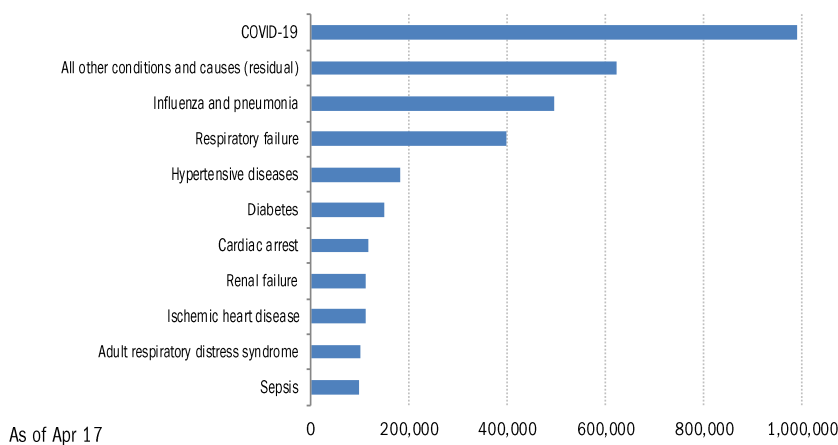


**Racial distribution of US cases, fatalities and case-fatality rates**



**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

### [Covid Is Changing. Our Data Haven't Kept Up](#)

Drew Armstrong and Cynthia Koons

*Bloomberg*

April 29, 2022

### [Xi Jinping Is Betting It All on Zero Covid](#)

Eyck Freymann

*Wall Street Journal*

April 28, 2022

### [Government acted unlawfully when it sent patients into care homes without coronavirus testing](#)

Tom Gillespie

*Sky News*

April 28, 2022

### [Moderna Knew Vaccinated People Will Never Acquire Proper Immunity After Breakthrough Infections](#)

Igor Chudov

*Igor's Newsletter*

April 25, 2022

### [Anti-nucleocapsid antibodies following SARS-CoV-2 infection in the blinded phase of the mRNA-1273 Covid-19 vaccine efficacy clinical trial](#)

Dean Follmann et al.

*medRxiv*

April 19, 2022

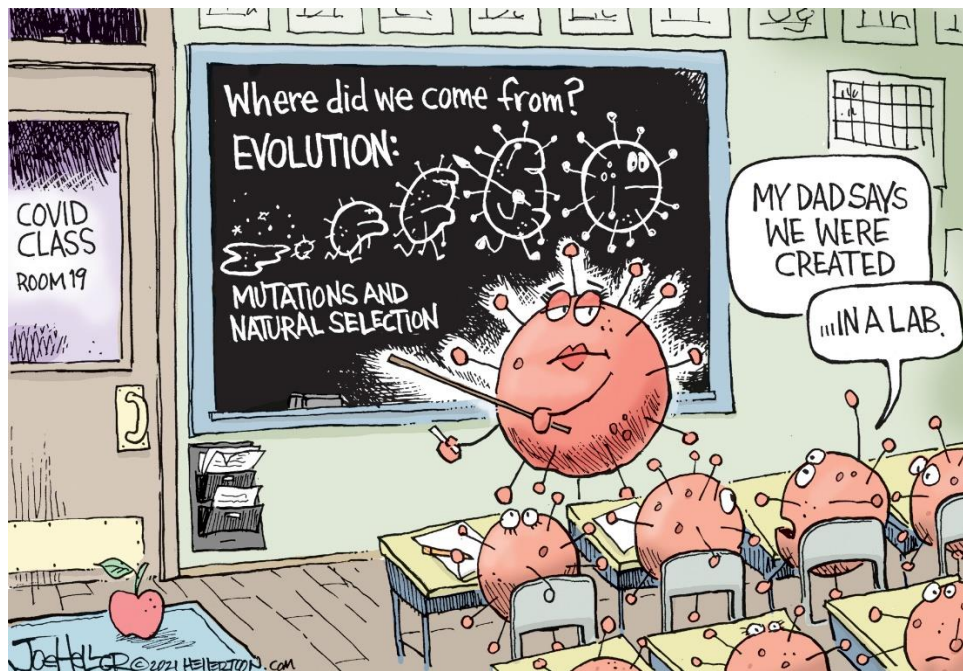
### [Innate immune suppression by SARS-CoV-2 mRNA vaccinations: The role of G-quadruplexes, exosomes, and MicroRNAs](#)

Stephanie Seneff et al.

*Food and Chemical Toxicology*

June 2022

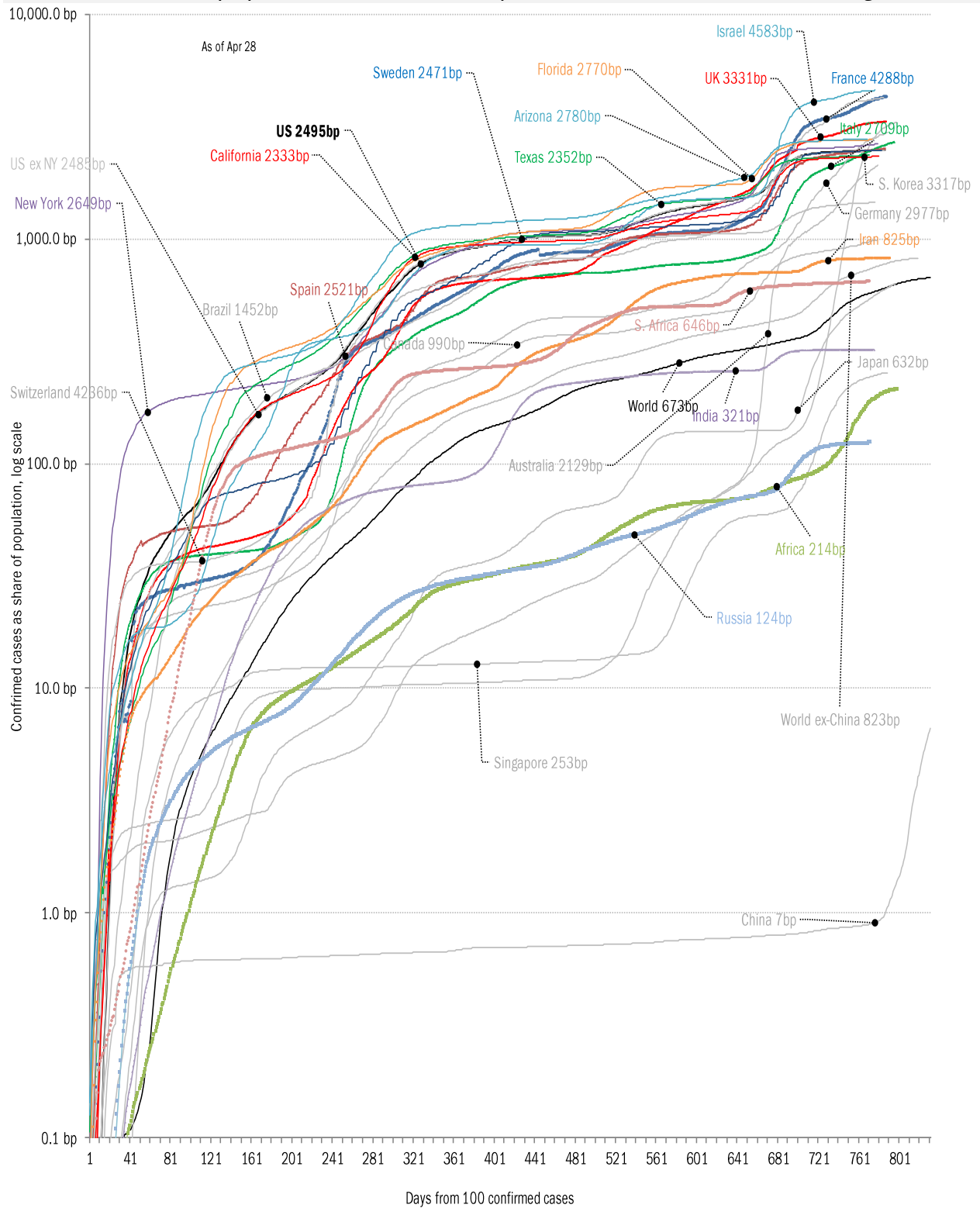
## Meme of the day



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

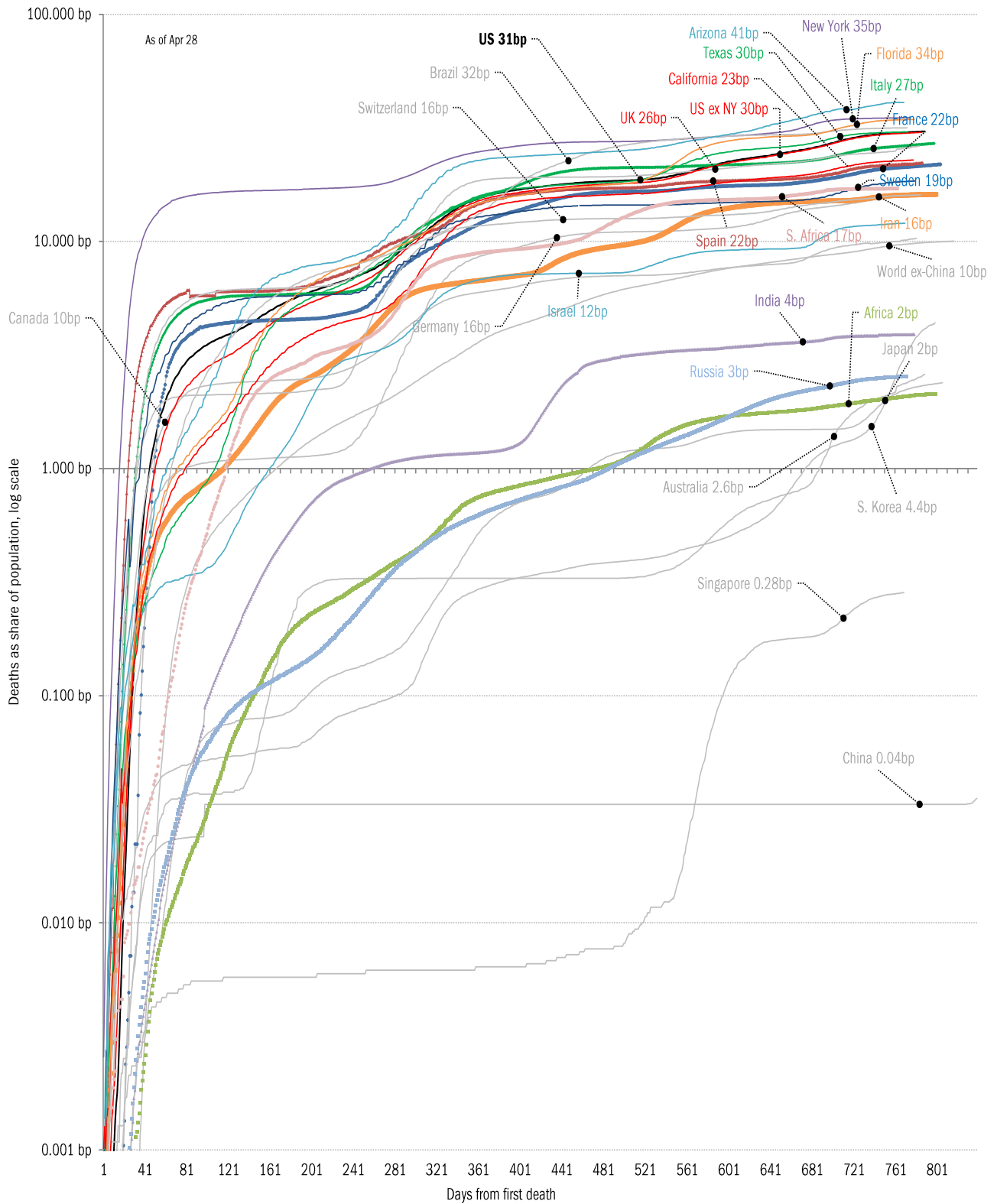


The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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*



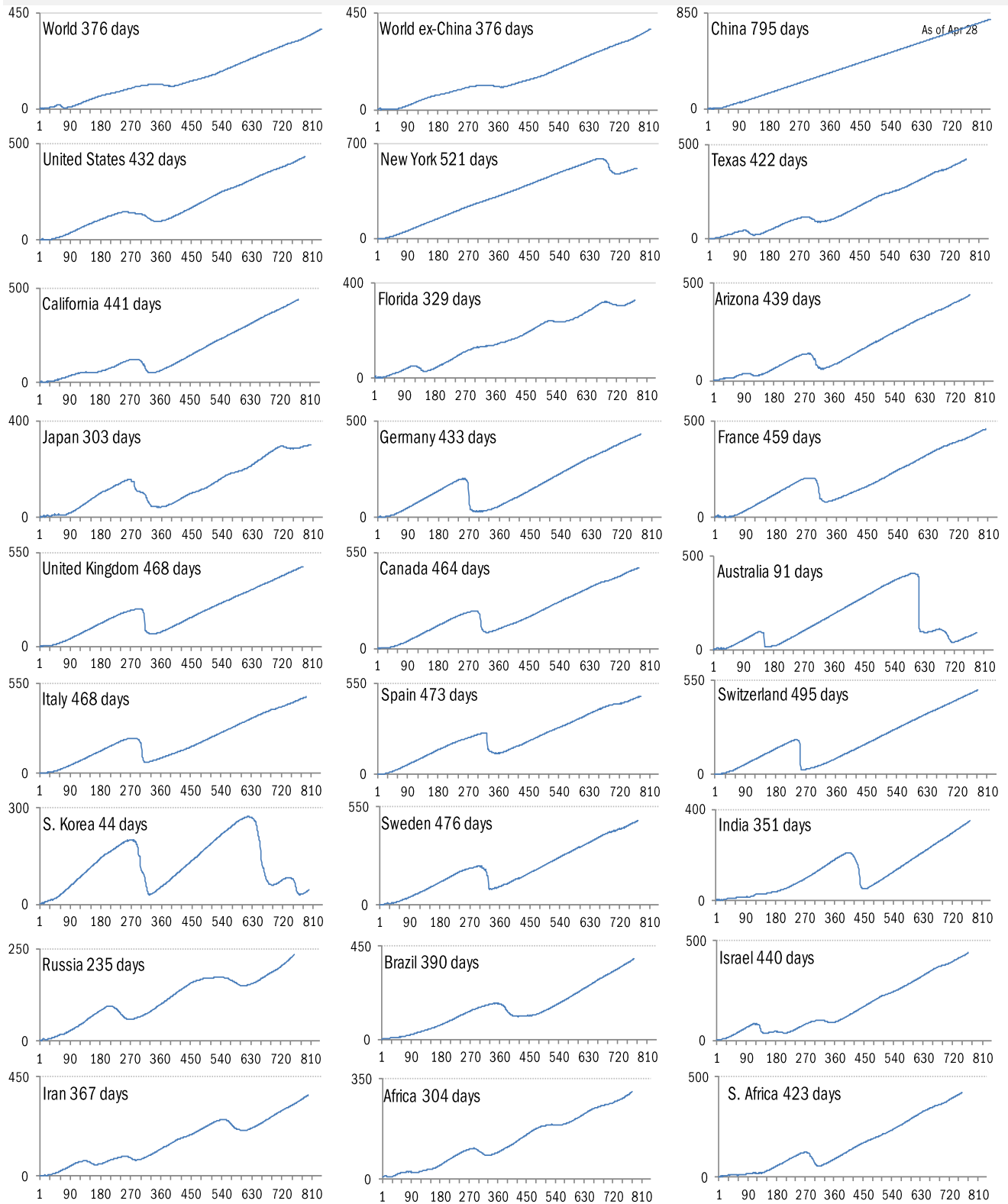
Source: [Johns Hopkins](#), TrendMacro calculations



# 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

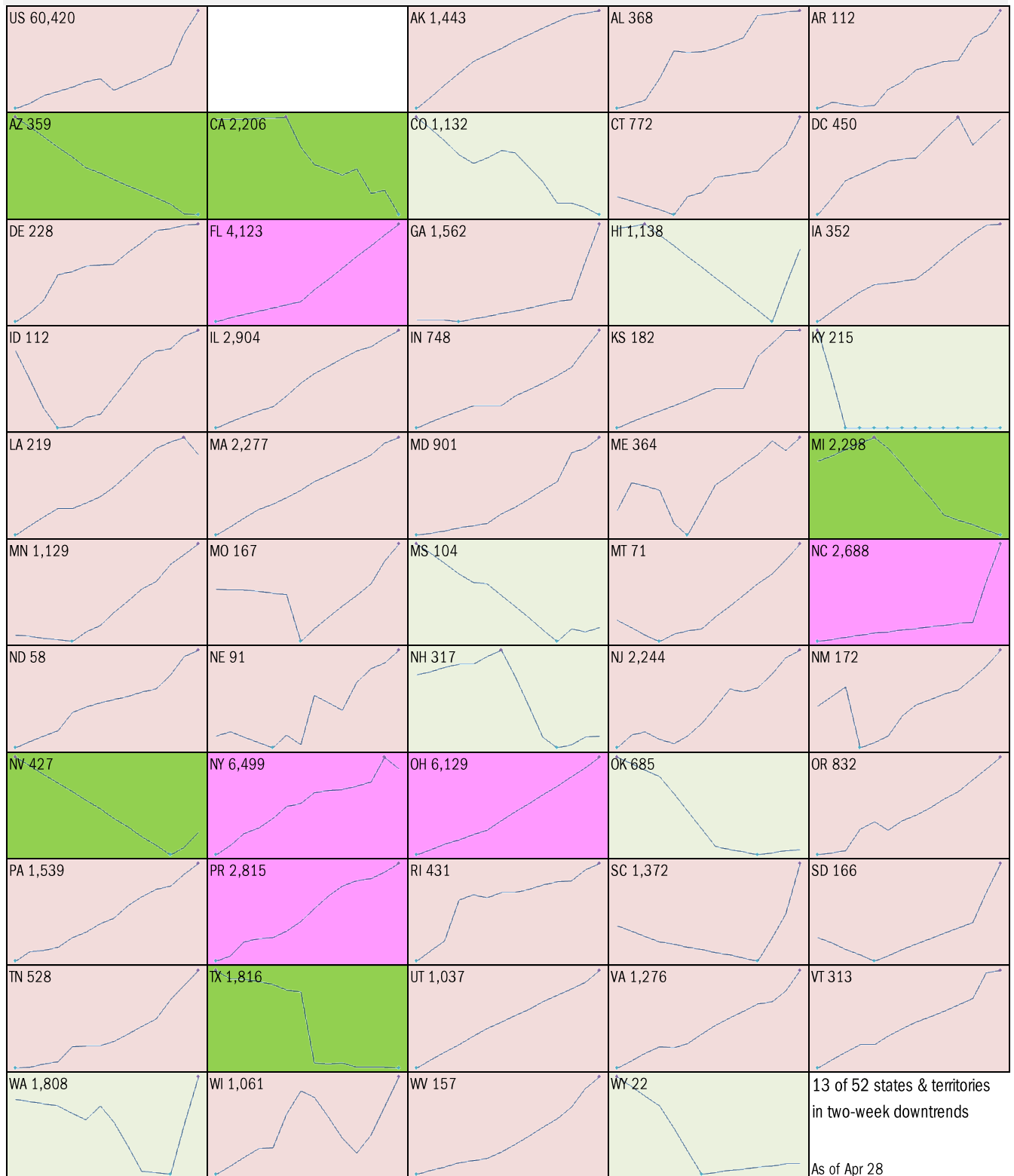


Source: [Johns Hopkins](#), TrendMacro calculations

# 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

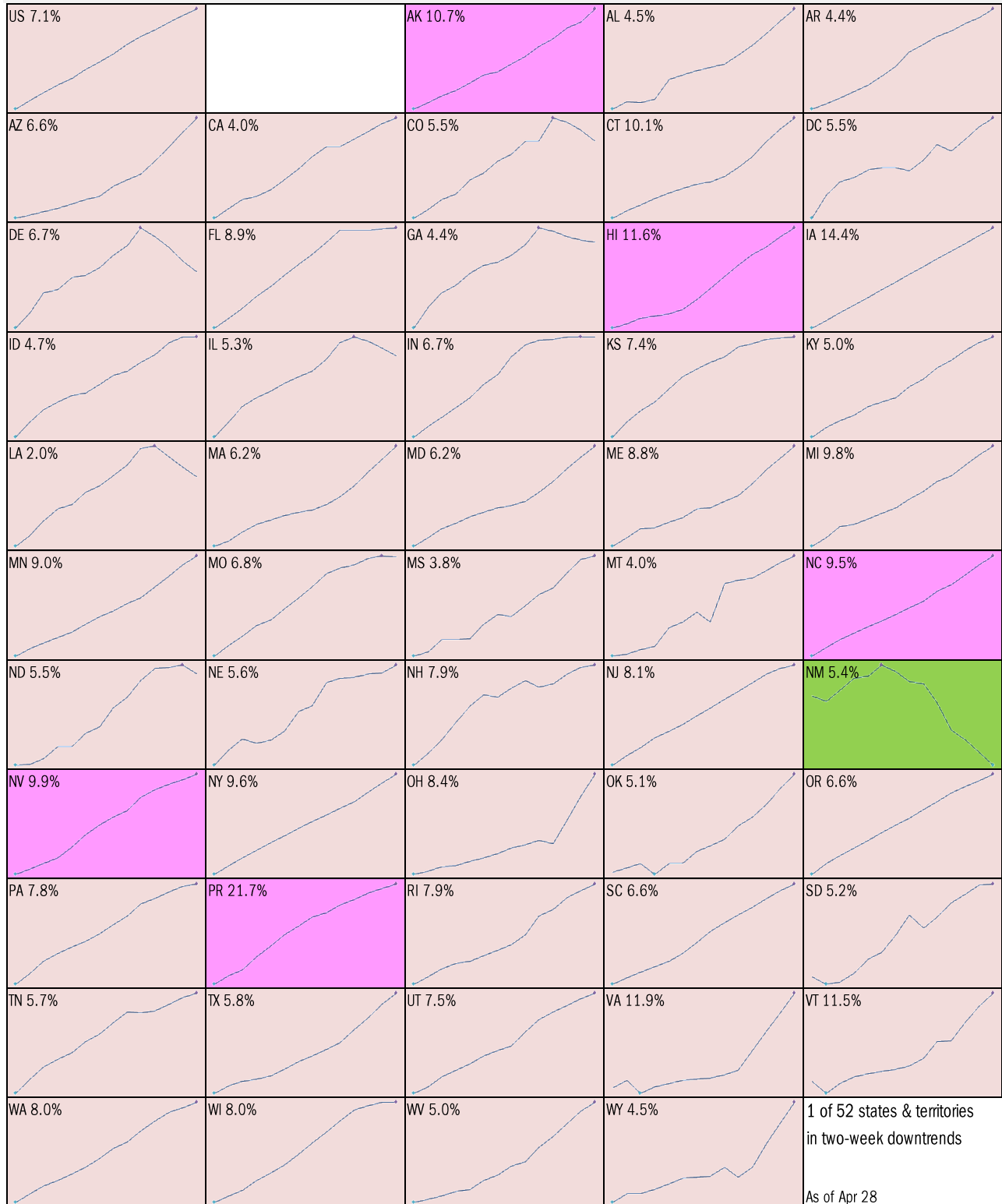


Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

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

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

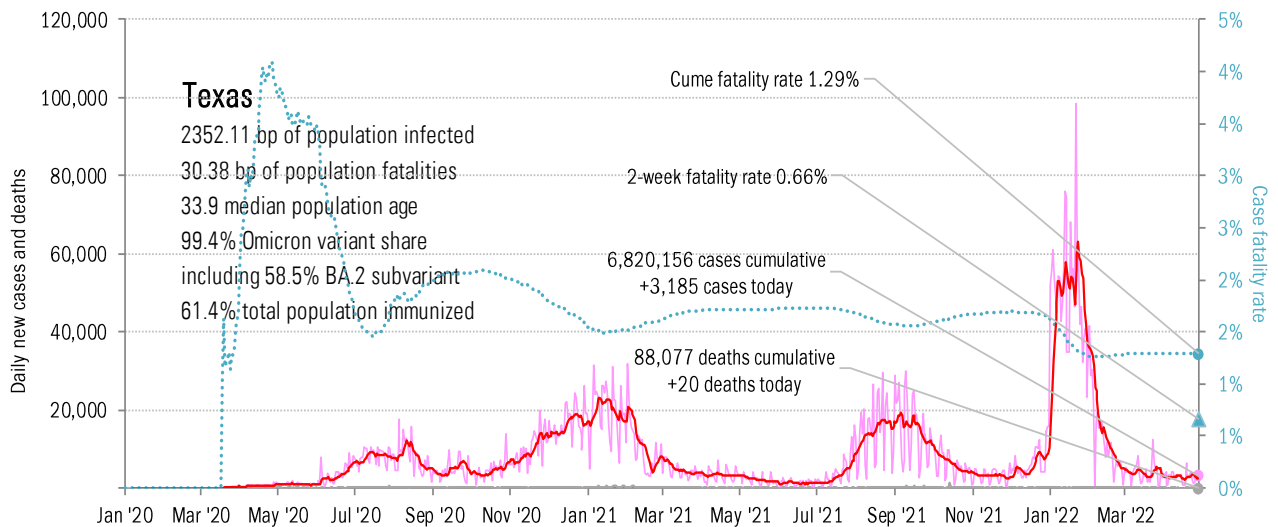
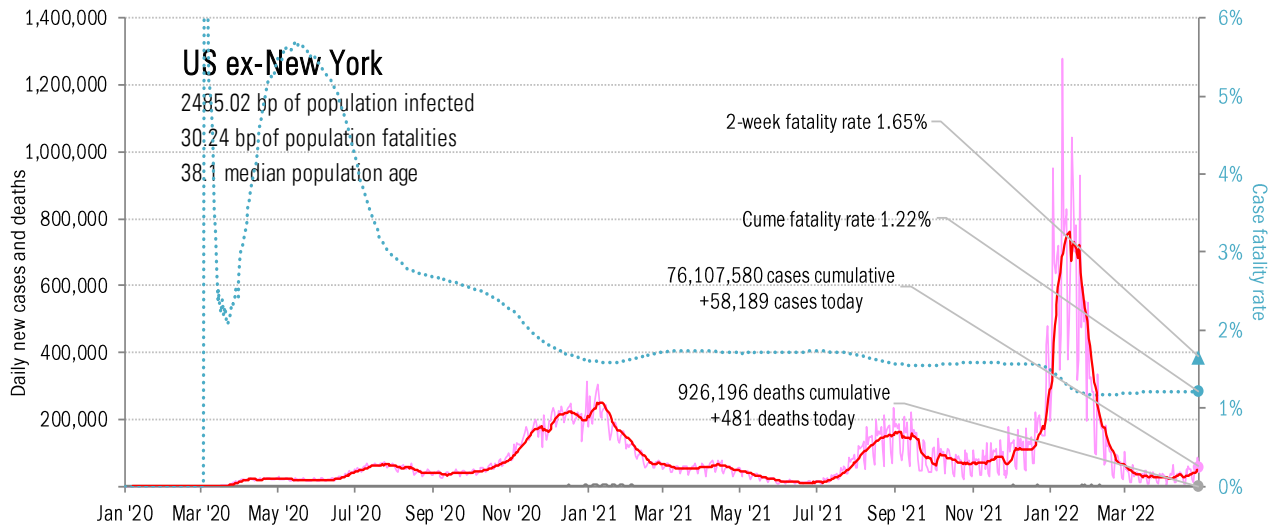
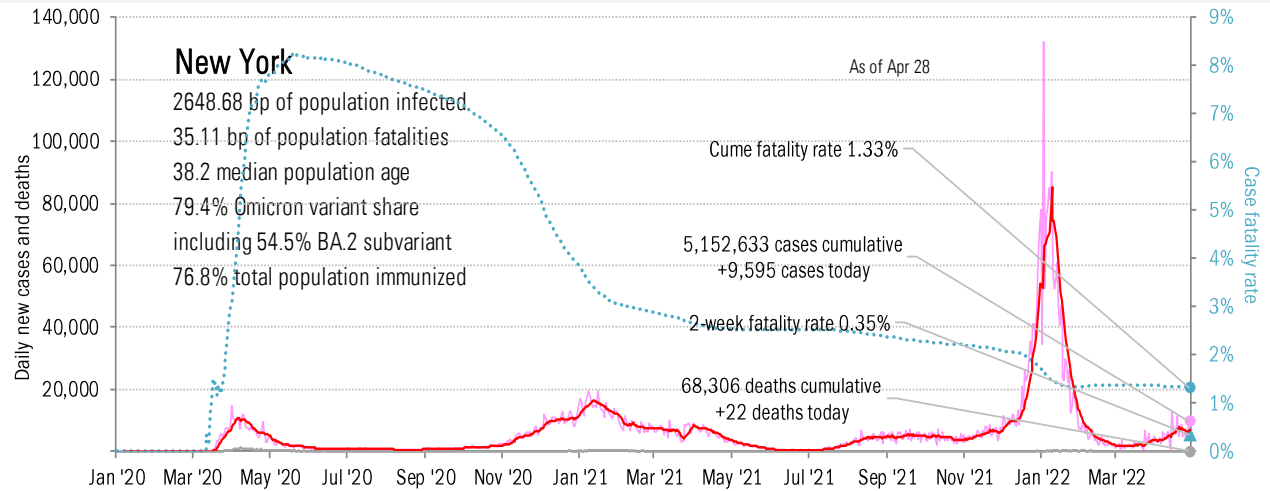
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

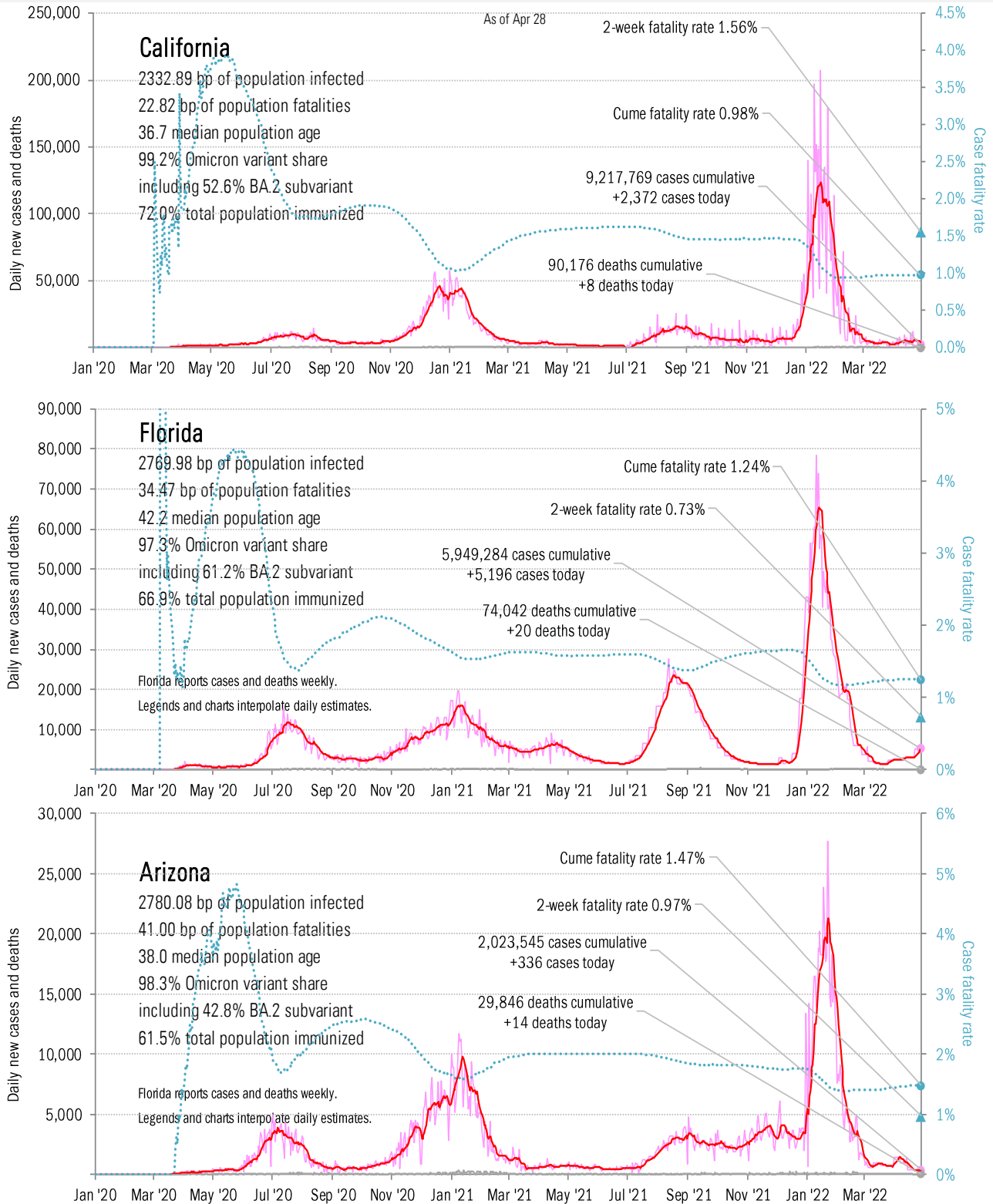
Cases: 7-day average and daily Deaths: Daily



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

# The sun-belt hot-spot states

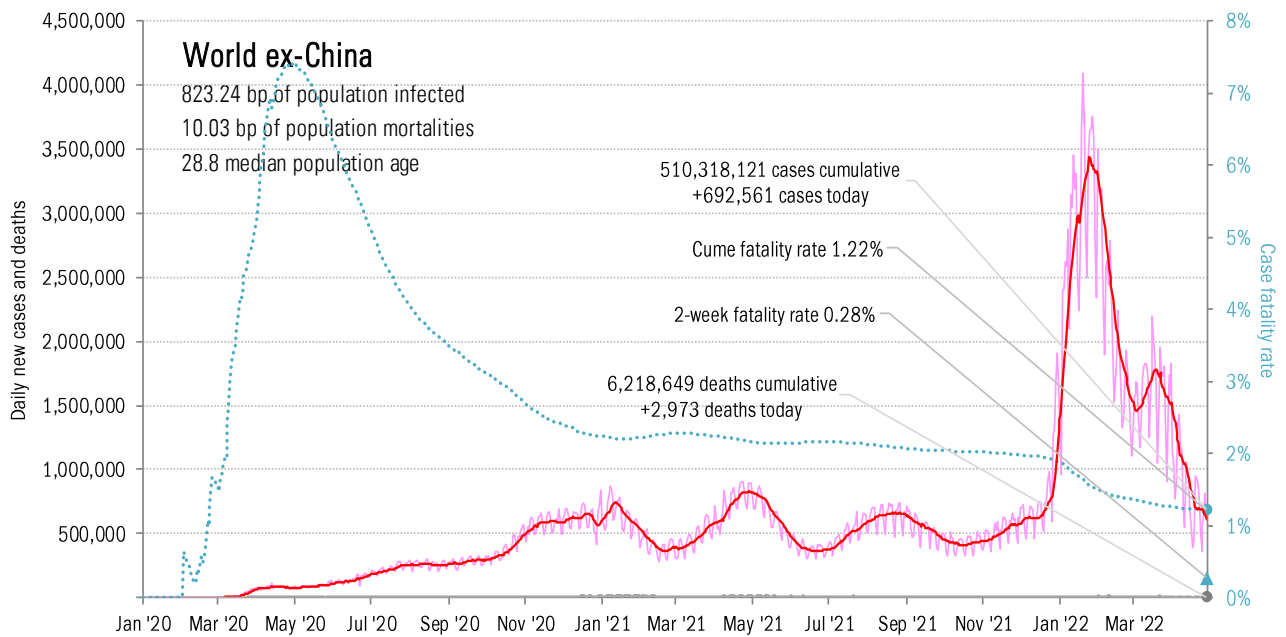
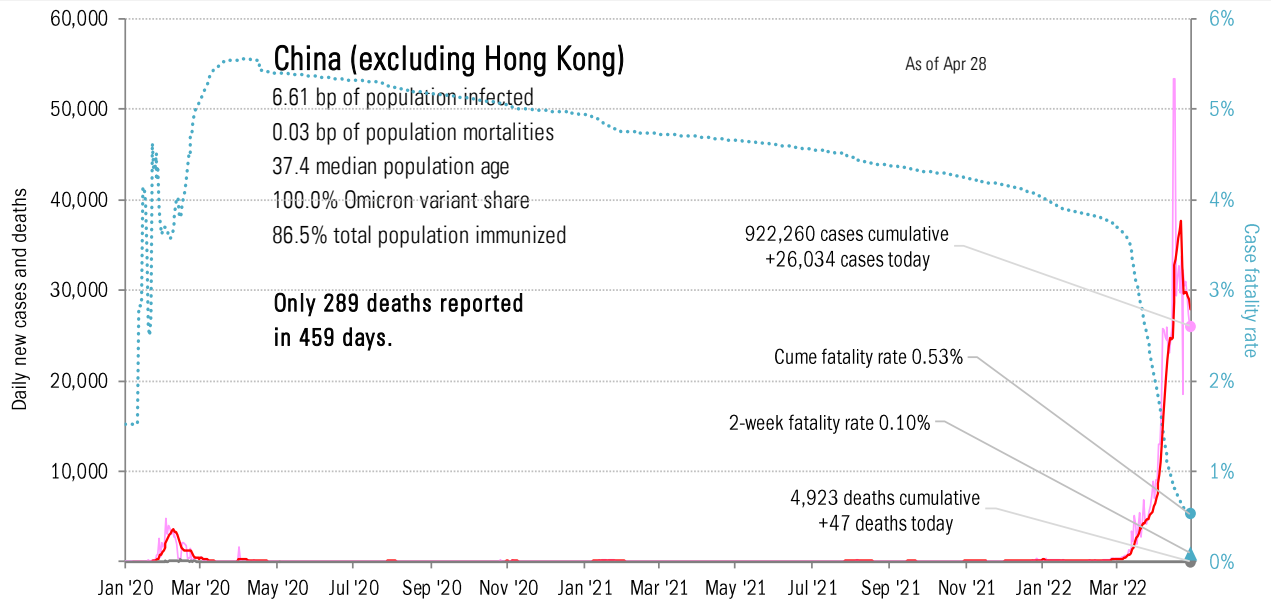
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

Cases: 7-day average and daily Deaths: Daily

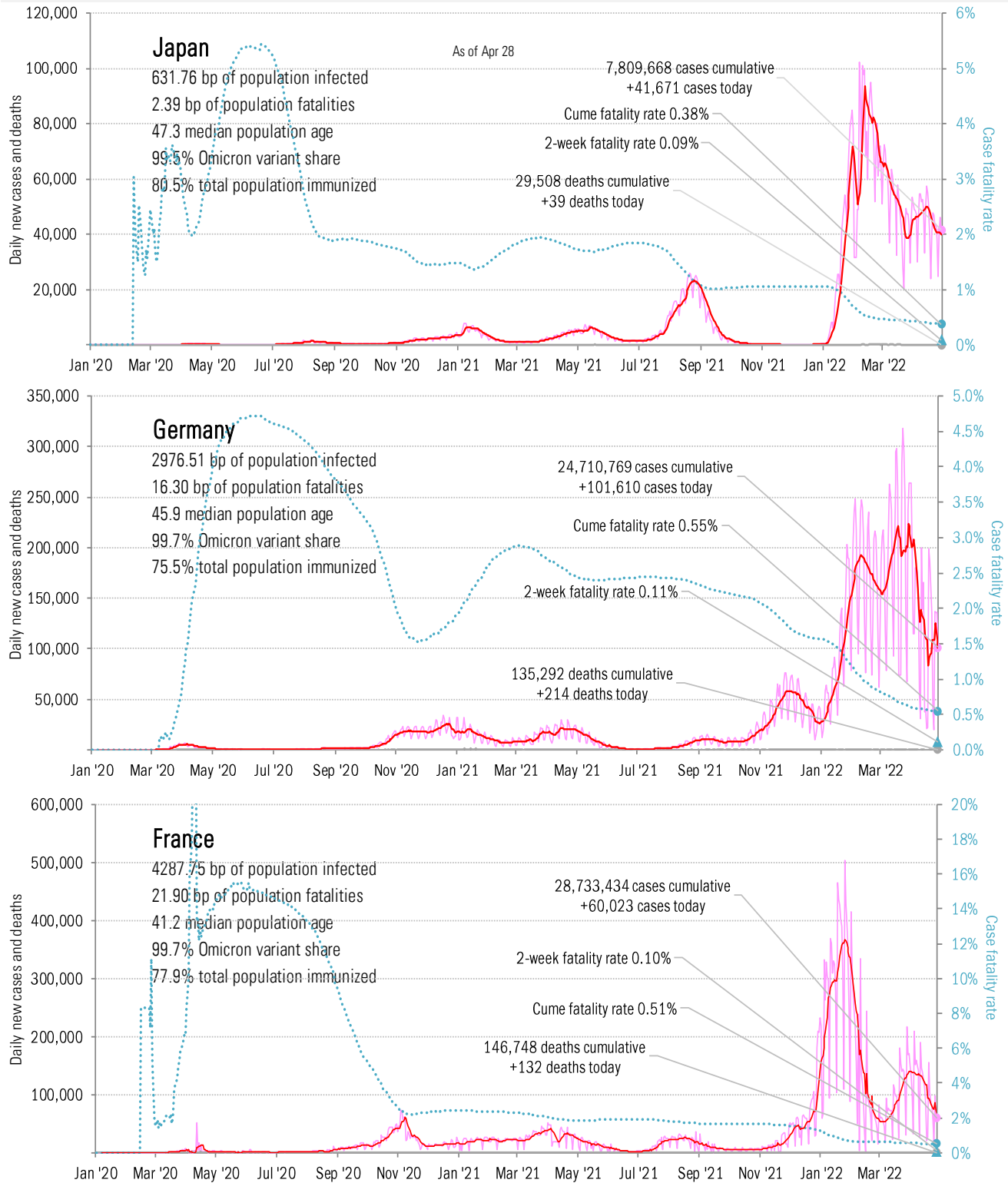


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in the largest economies

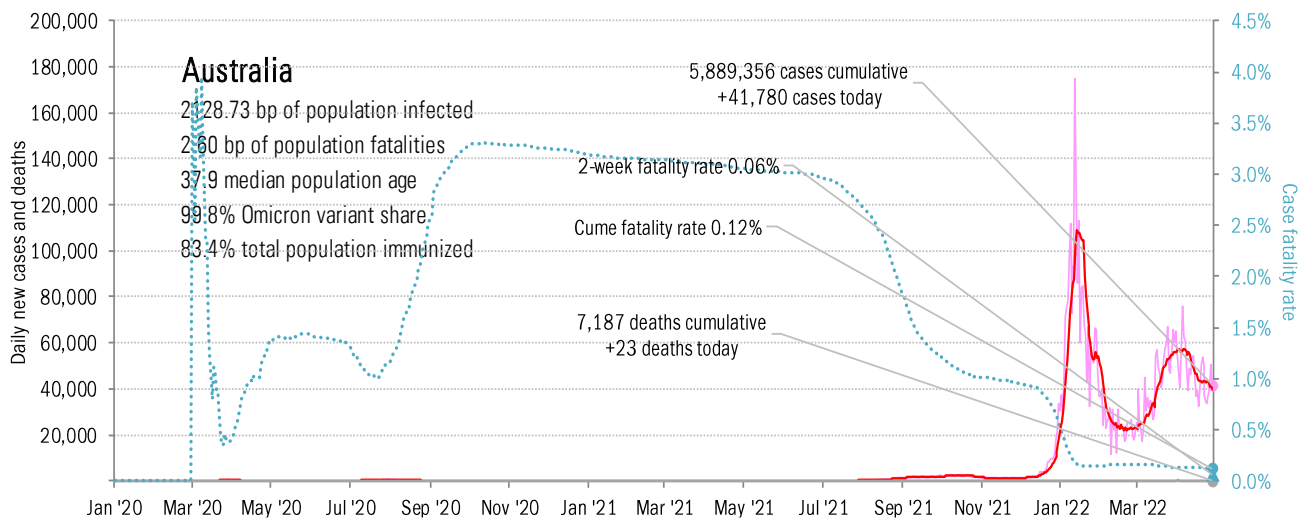
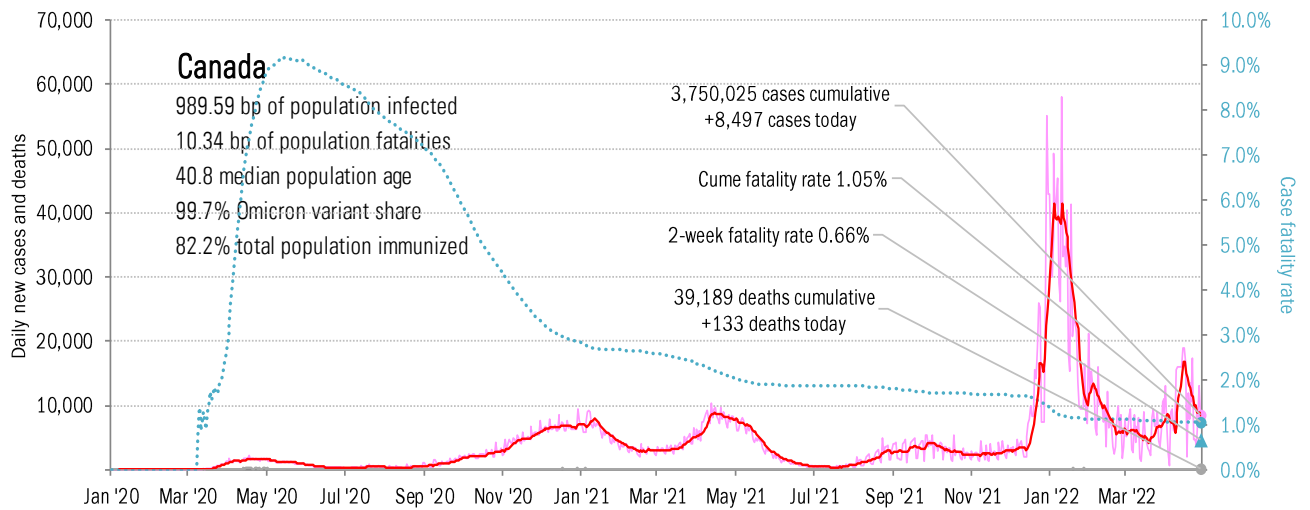
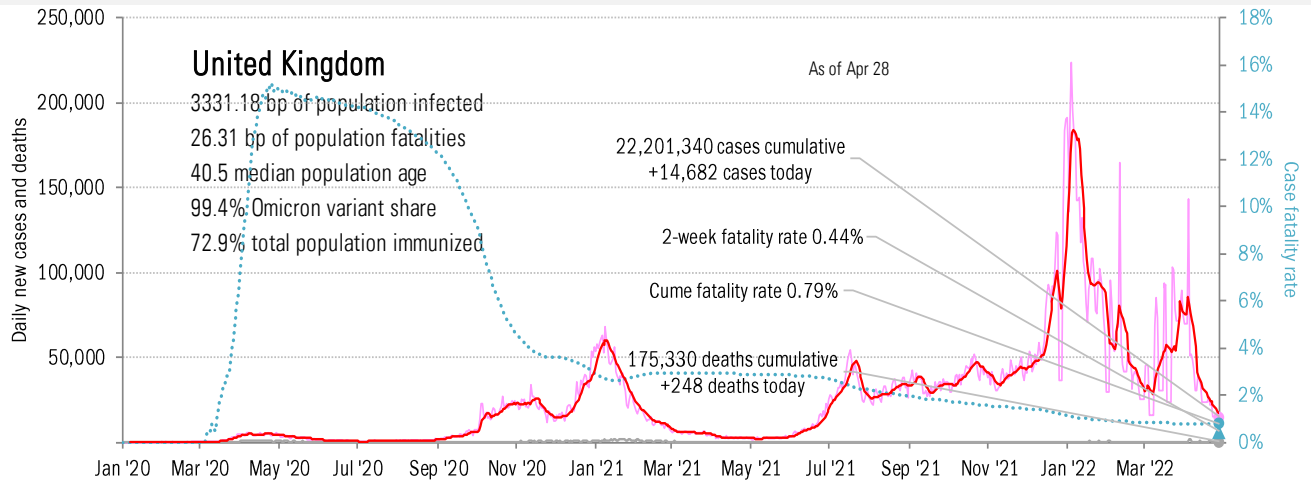
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

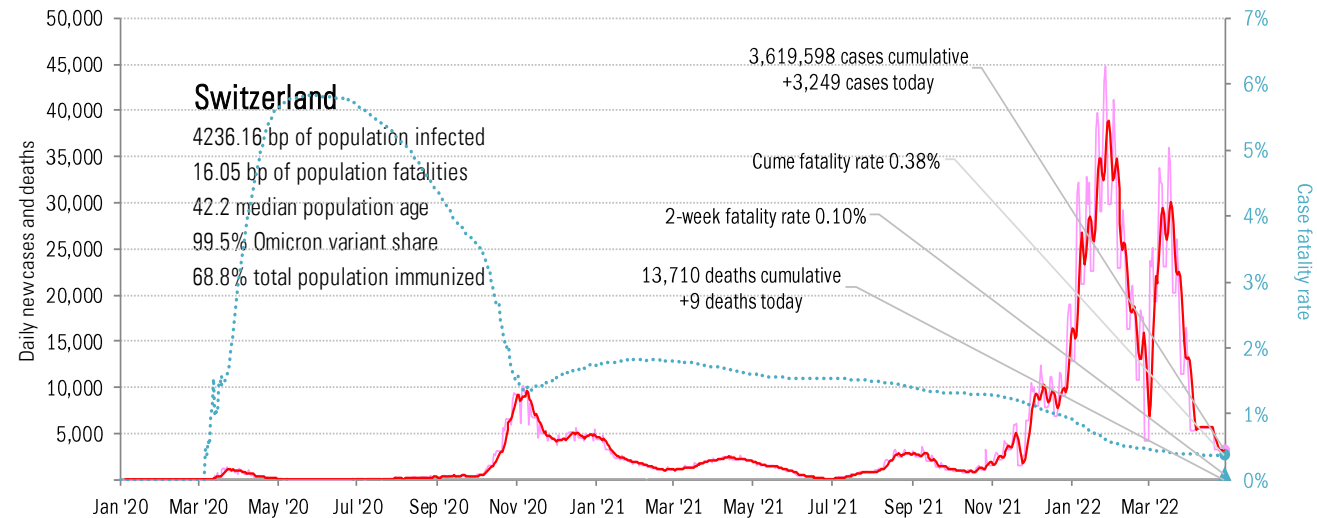
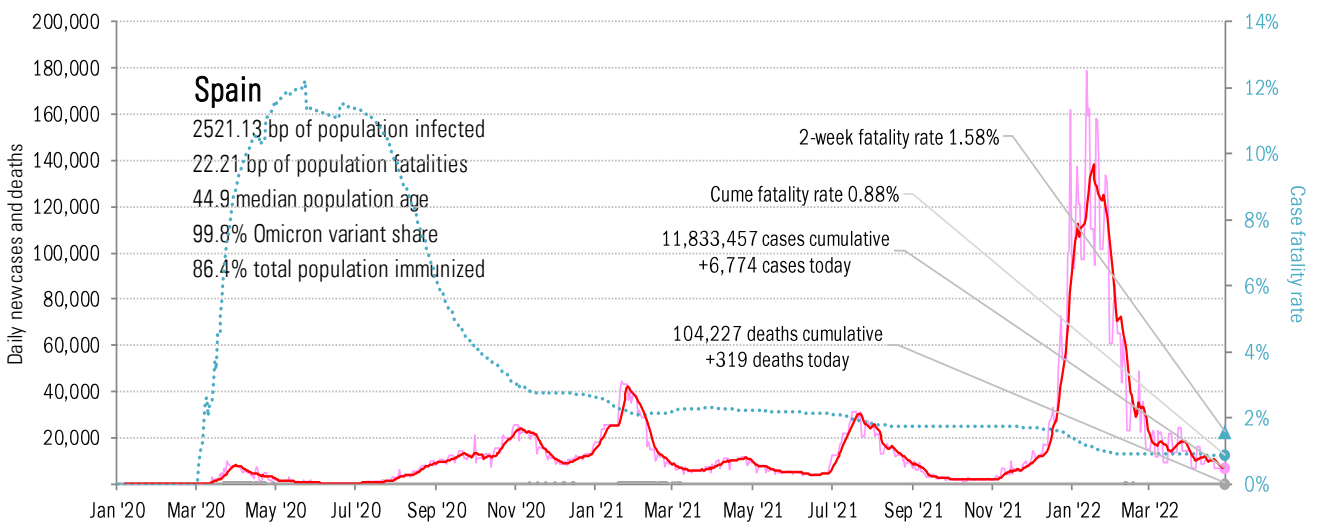
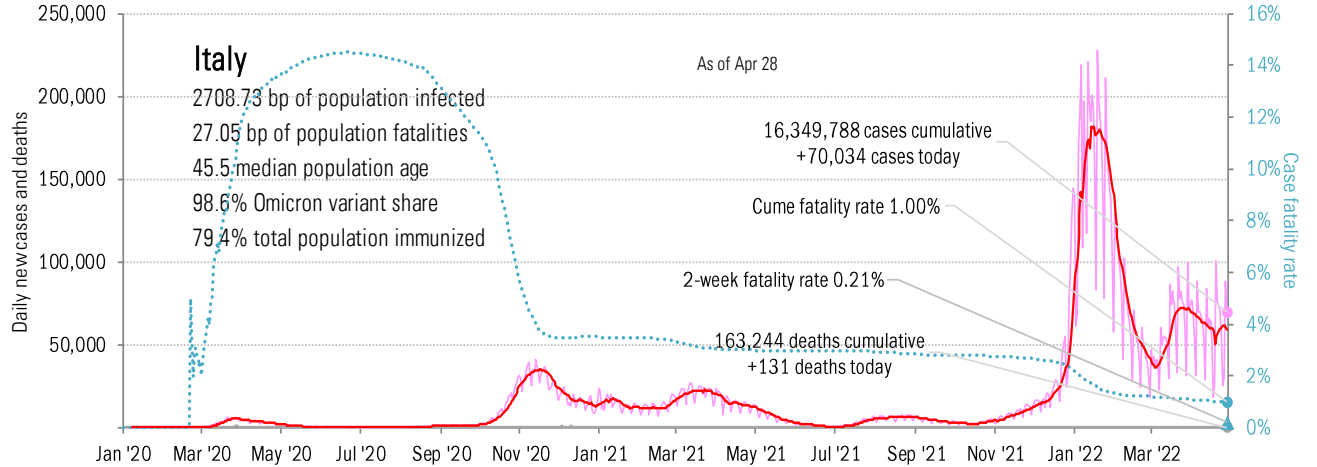
Cases: 7-day average and daily Deaths: Daily



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

# Impact in continental Europe

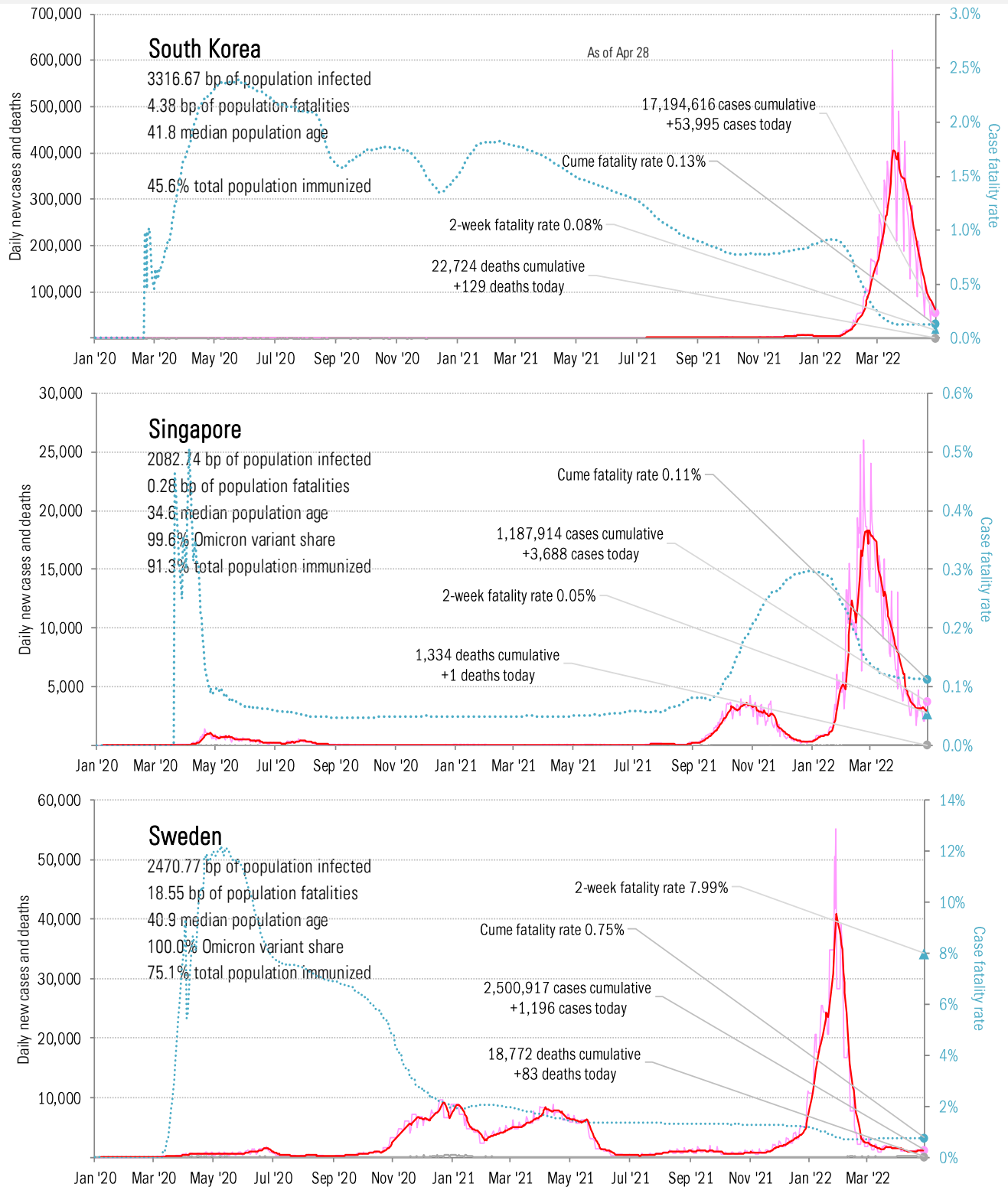
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

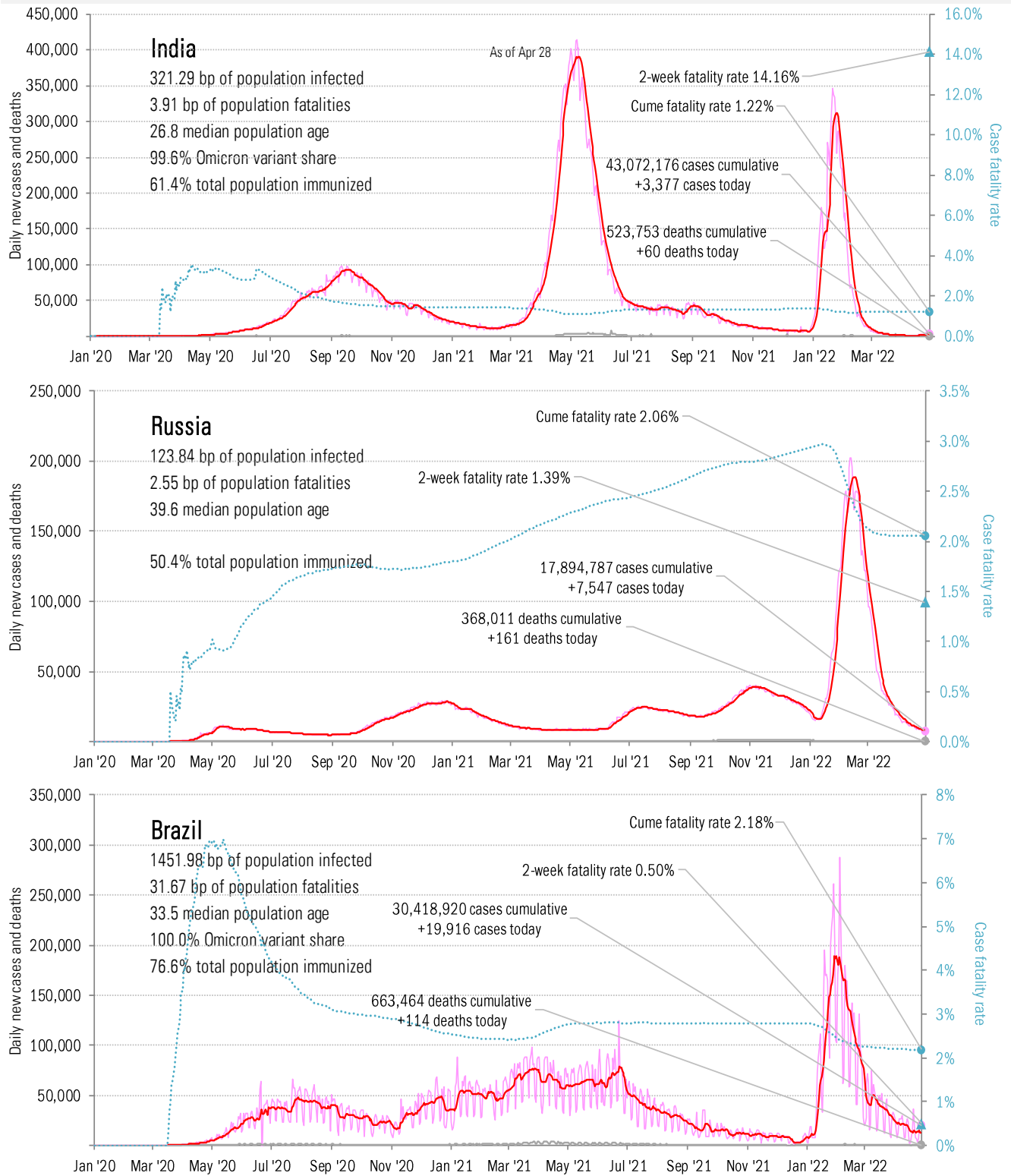
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

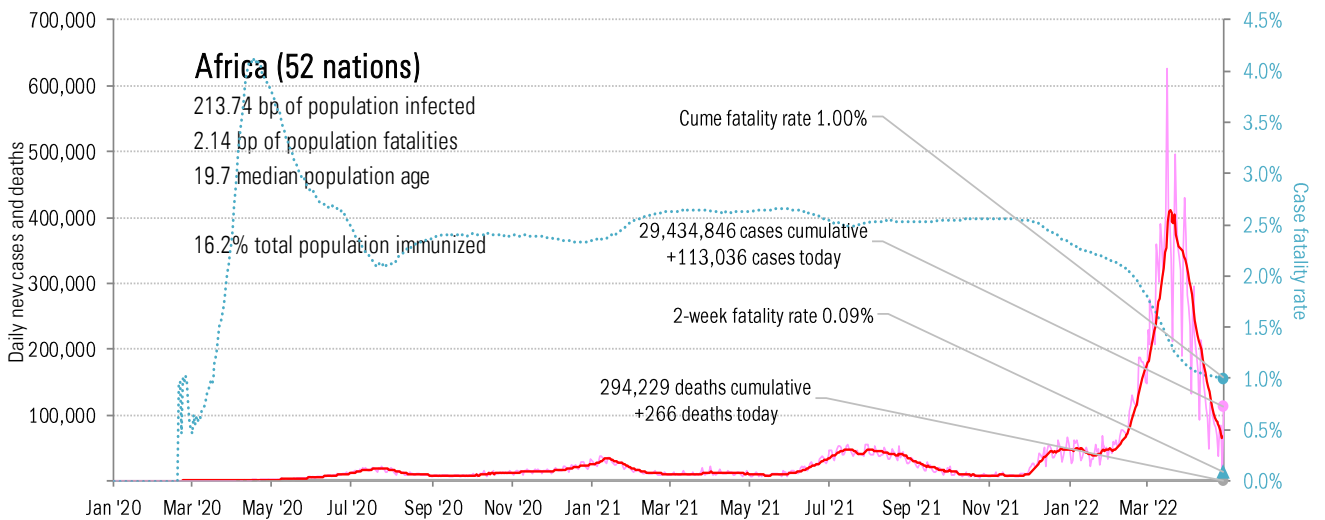
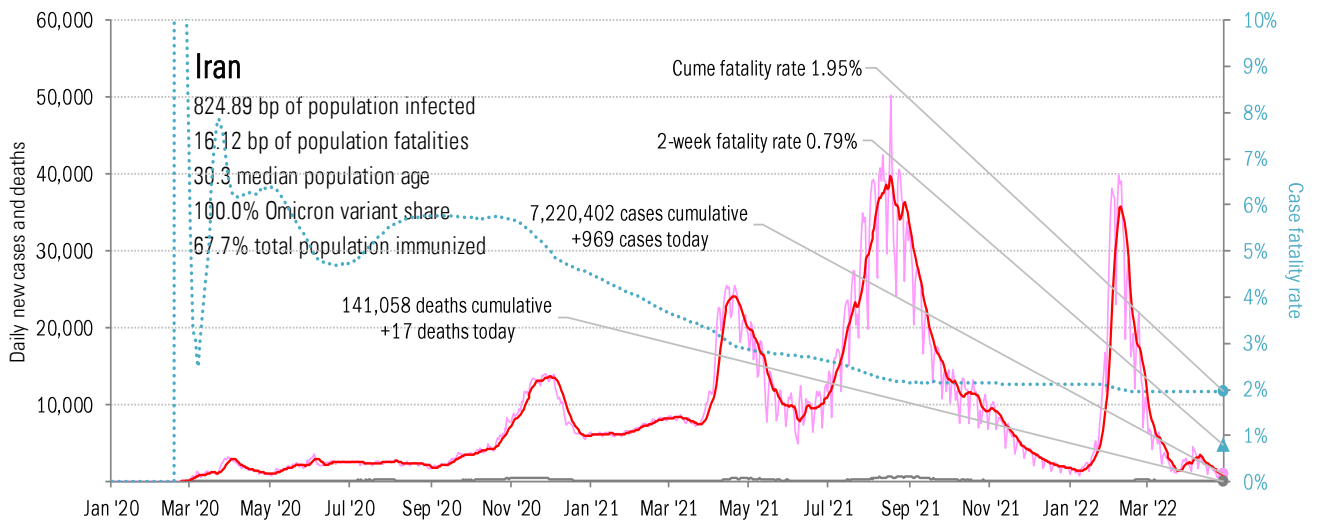
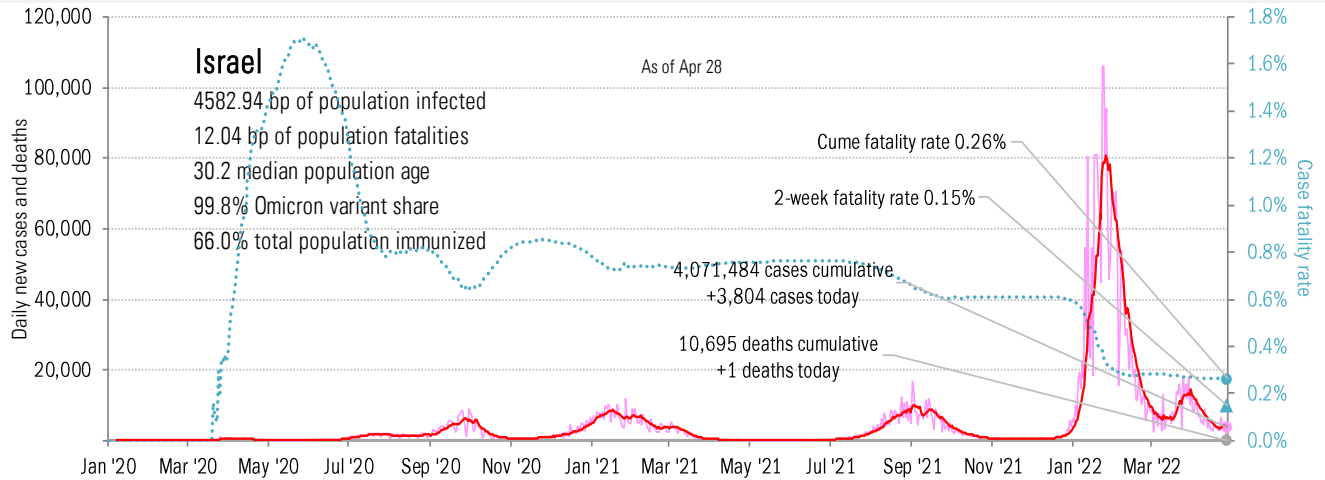
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

Cases: 7-day average and daily Deaths: Daily

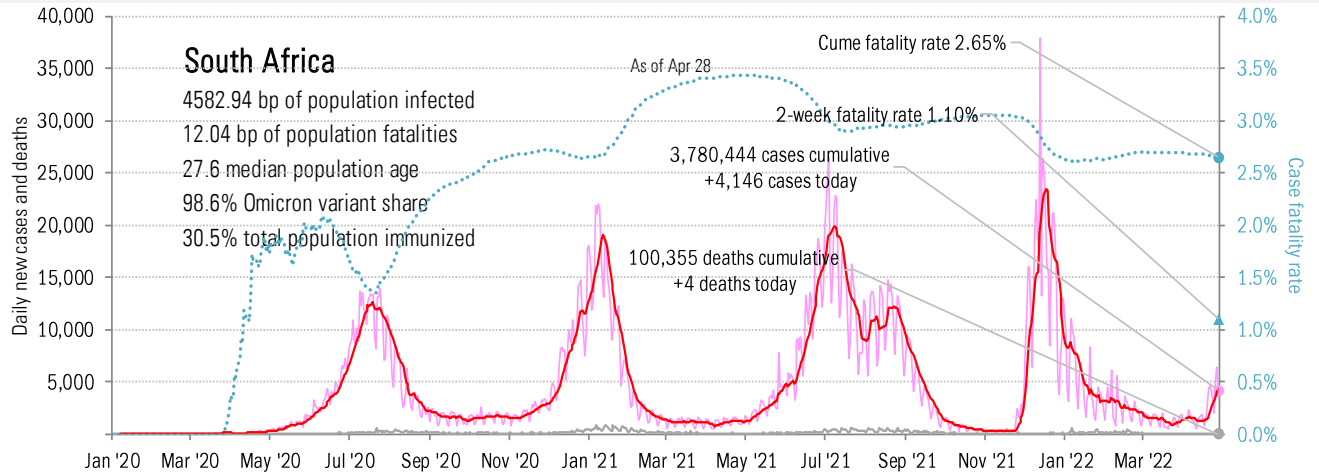


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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