

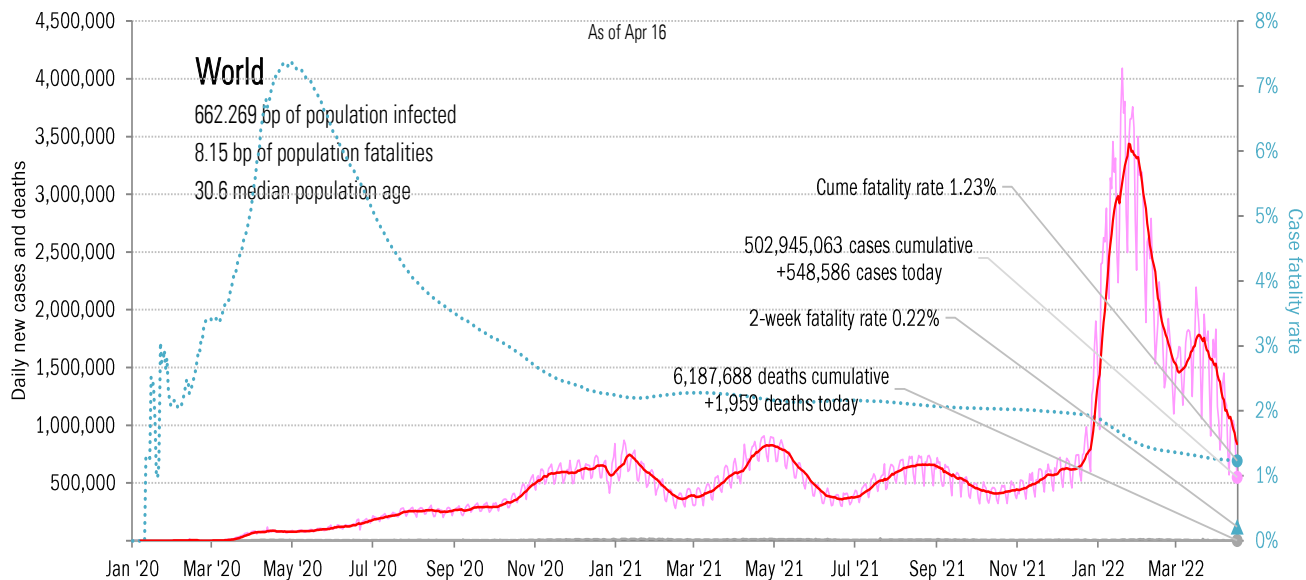
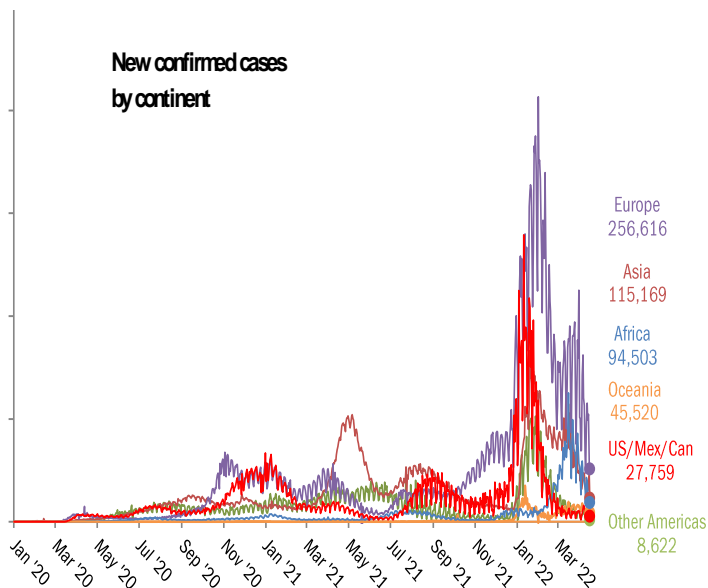
Data Insights: Covid-2019 Monitor

Sunday, April 17, 2022

The global scorecard

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

The worst ten countries			
New cases		New Deaths	
France	111,583	United States	539
Korea, South	93,001	Russia	234
Italy	64,533	Korea, South	203
China	52,076	Italy	133
Japan	47,524	Thailand	128
Germany	39,784	Canada	66
Australia	39,177	France	61
Vietnam	23,354	Peru	54
Thailand	17,775	Greece	49
Canada	13,731	Japan	48
502,538		1,515	
World	548,586	World	1,959
Top ten	92%	Top ten	77%



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

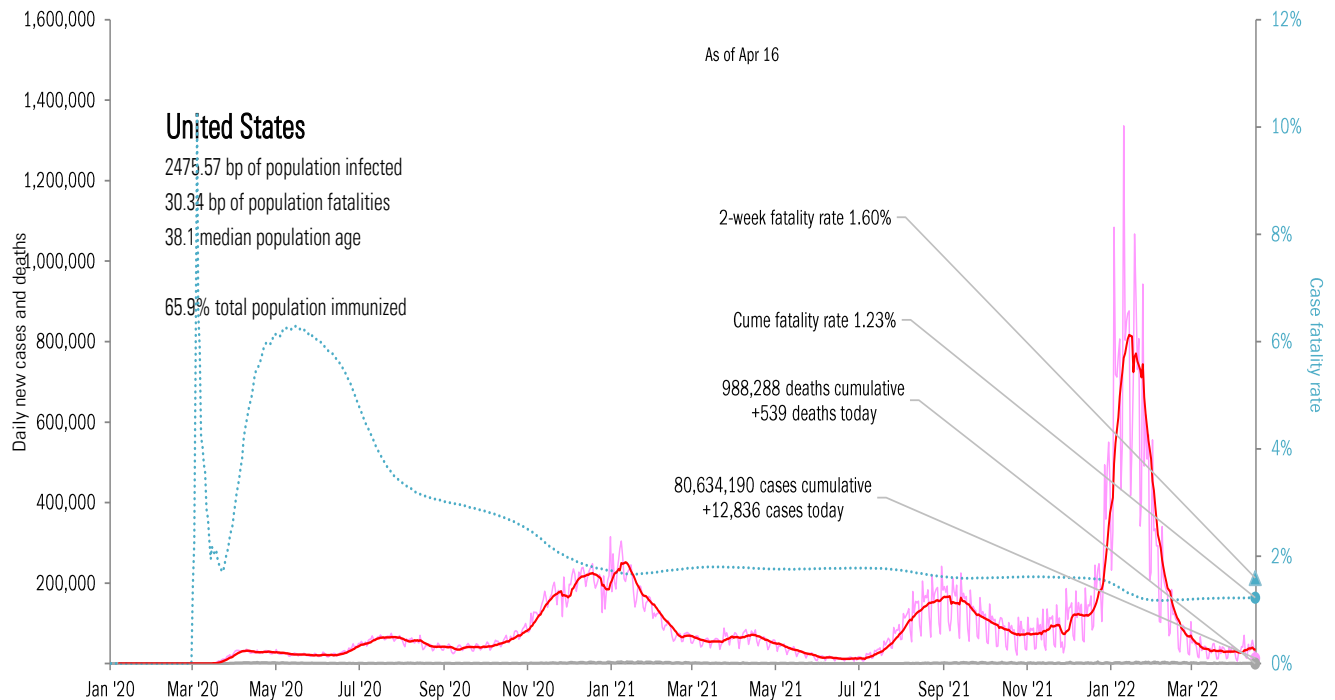
The ten worst US states

New cases			New deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use			
NY	5,762		AZ	20		FL	229		CA	9,157,755		CA	89,670		TX	488,737		RI	89%		RI	85%	
NJ	2,163		FL	19		NY	203		TX	6,785,022		TX	87,809		CA	424,666		MA	86%		NM	84%	
PA	1,336		PA	14		MI	72		FL	5,912,913		FL	73,804		FL	415,108		MD	84%		KY	83%	
CK	1,234		CA	4		PA	60		NY	5,074,112		NY	68,114		NY	247,485		MN	84%		TX	82%	
TN	455		AR	3		LA	25		IL	3,094,485		PA	44,488		GA	207,127		WA	83%		WA	81%	
ME	437		NJ	3		NJ	59		PA	2,796,875		CH	38,266		CH	190,761		WV	82%		MA	80%	
IA	404		AK	0		GA	42		CH	2,681,437		GA	37,523		PA	176,245		DC	82%		AL	80%	
AZ	397		AL	0		TN	21		NC	2,639,241		IL	35,943		IL	157,368		MO	81%		VT	80%	
KY	215		AS	0		WA	28		GA	2,506,634		MI	35,857		MI	141,447		PA	81%		NH	79%	
AR	88		CO	0		AL	24		MI	2,400,990		NJ	33,337		KY	132,917		DE	81%		UT	79%	
12,491			63			763			43,049,464			544,811			2,581,861								
All states	12,836			539			1,695		All states	80,634,190			988,288			4,687,903		All states	70%			67%	
Top ten	97%			12%			45%		Top ten	53%			55%			55%		Median	75%			73%	

Some states not reporting

Five most improved US states

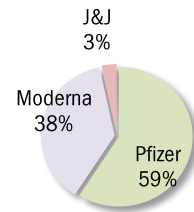
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-7,221	FL	-110	AZ	-36	AK	+10 bp
FL	-6,561	CA	-106	CH	-16	CA	+10 bp
WA	-2,794	GA	-47	UT	-15	MI	+10 bp
MA	-2,727	VA	-34	KS	-14	MN	+10 bp
IL	-2,420	WA	-30	AR	-10	MT	+10 bp



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	584,187,783		+0.366 million	US	65.9%	77.3%
Boosters	100,679,615		+0.062 million	UK	72.7%	77.7%
	One dose	% Pop	Immune	% pop	New immune today	
Total population	264,439,914	79%	225,122,189	67%	+0.059 million	France 77.9% 80.1%
Age 12 to 17	17,650,912	70%	15,058,874	60%	+0.004 million	Spain 86.3% 88.1%
Age 18 to 64	177,980,449	87%	150,987,492	74%	+0.032 million	Germany 75.4% 76.0%
Age 65 and over	58,619,415	100%	50,892,424	93%	+0.017 million	Italy 79.3% 84.1%



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

Israel	66.0%	72.2%
Canada	82.1%	86.9%
Japan	80.2%	81.6%
Africa	16.2%	21.2%
India	60.4%	71.6%
Brazil	75.9%	85.0%
China	86.2%	88.6%

Global data differs due to sources, timing

AK
69.6%
62.0%

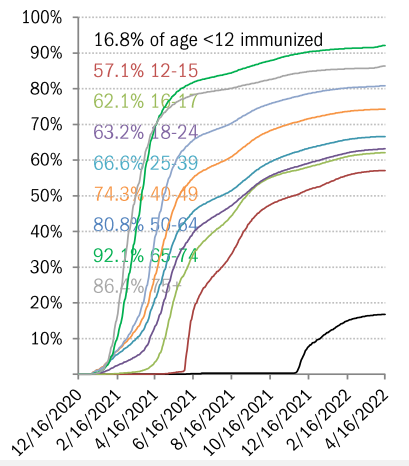
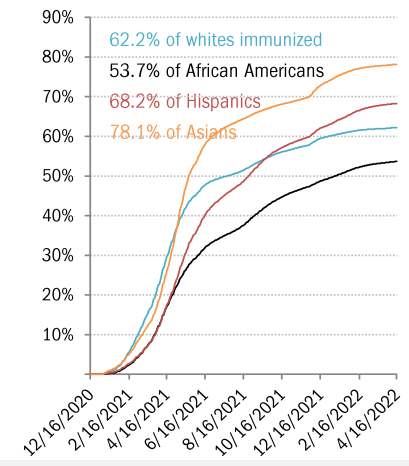
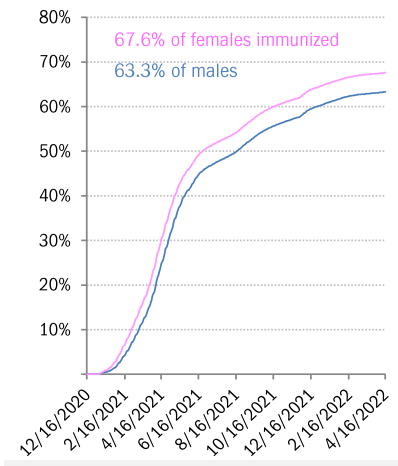
Immunity = two doses

As of Apr 16

					WI					ME
					71.7%					89.9%
					65.4%					79.2%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
80.6%	60.9%	65.1%	64.8%	74.9%	76.5%	66.8%		89.9%	93.1%	86.8%
72.4%	53.9%	56.6%	54.7%	69.0%	68.5%	60.0%		76.6%	80.9%	69.1%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
77.7%	75.0%	58.6%	76.1%	67.8%	61.3%	63.4%	84.5%	90.1%	95.0%	
69.4%	60.5%	51.4%	61.0%	61.8%	54.7%	58.2%	68.1%	75.3%	78.6%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
83.3%	71.9%	79.1%	70.1%	66.0%	66.0%	64.8%	85.4%	86.2%	95.0%	95.0%
71.8%	64.1%	70.0%	63.4%	55.9%	57.2%	57.4%	72.9%	75.3%	78.9%	82.1%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	72.7%	87.2%	74.3%	66.4%	62.0%	83.7%	67.3%	95.0%	82.8%	
	61.3%	70.7%	61.1%	54.2%	54.3%	60.6%	56.6%	73.5%	68.8%	
			OK	LA	MS	AL	GA			
			70.8%	60.9%	59.4%	62.6%	65.2%			
			57.0%	53.3%	51.7%	50.9%	54.5%			
			TX					FL		PR
			72.7%					79.0%		94.7%
			61.2%					66.7%		82.8%

HI
87.2%
78.0%

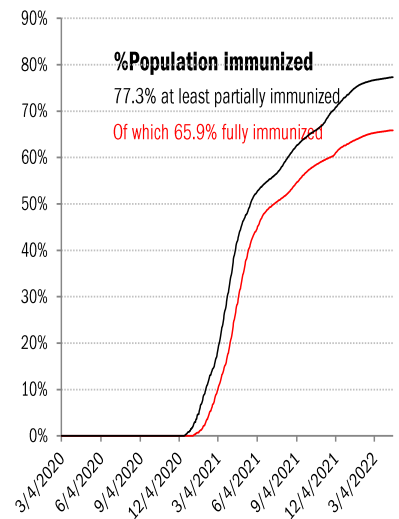
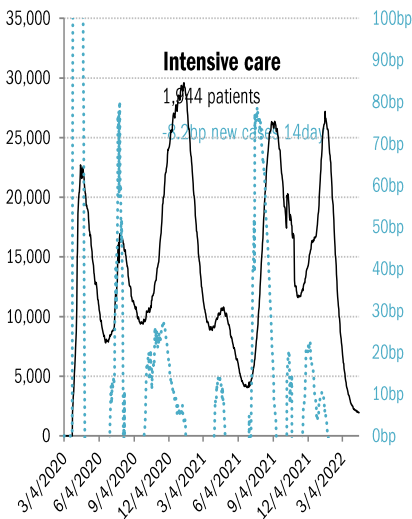
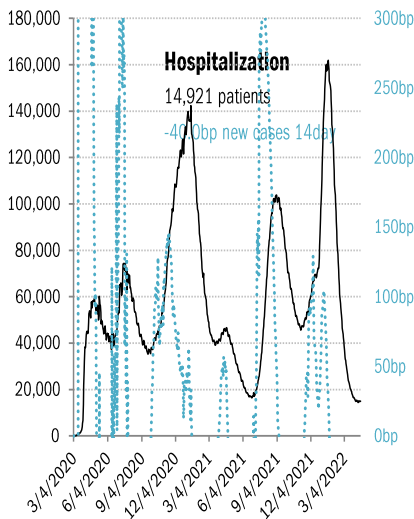
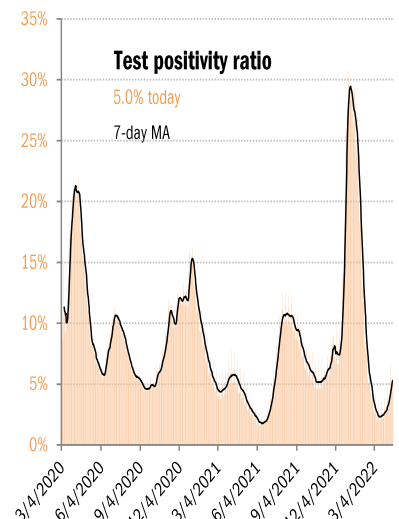
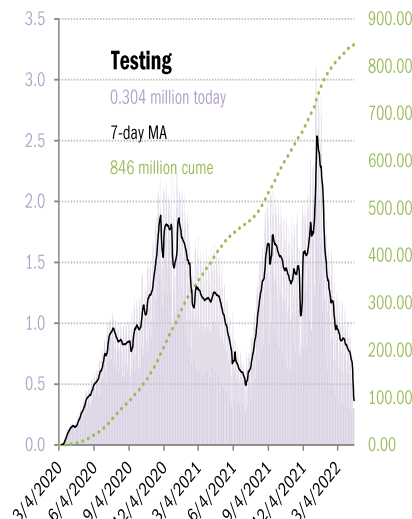
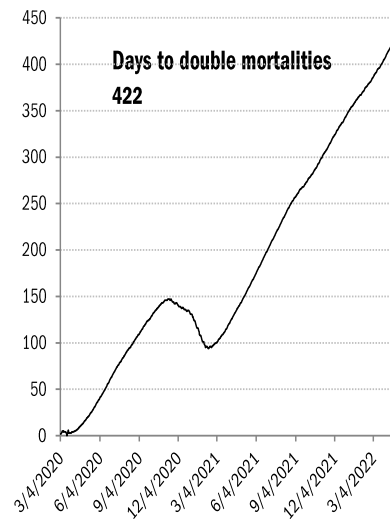
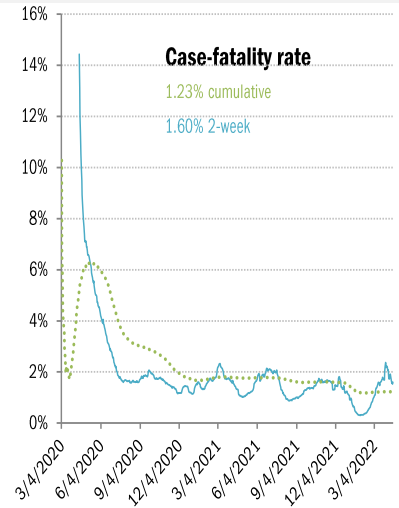
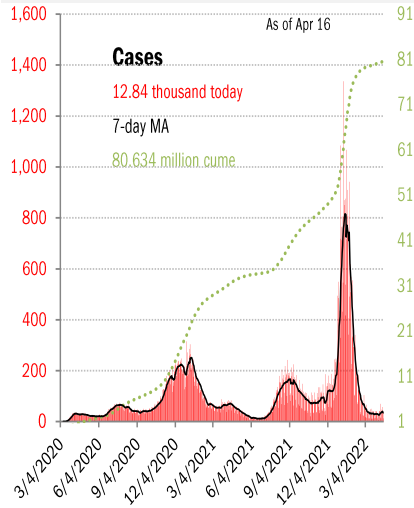
The demographics of US vaccination



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

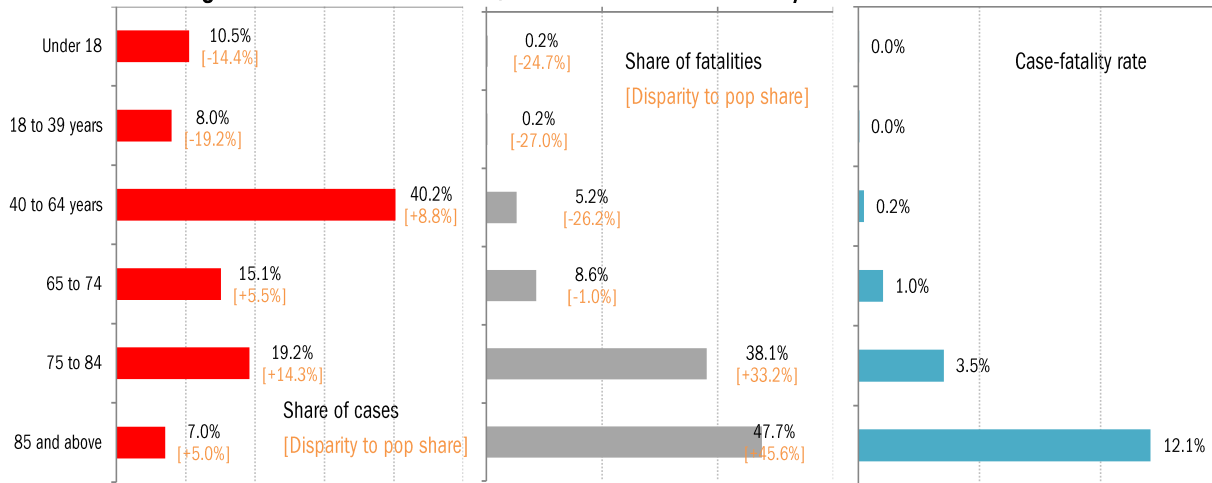
US deep-dive

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

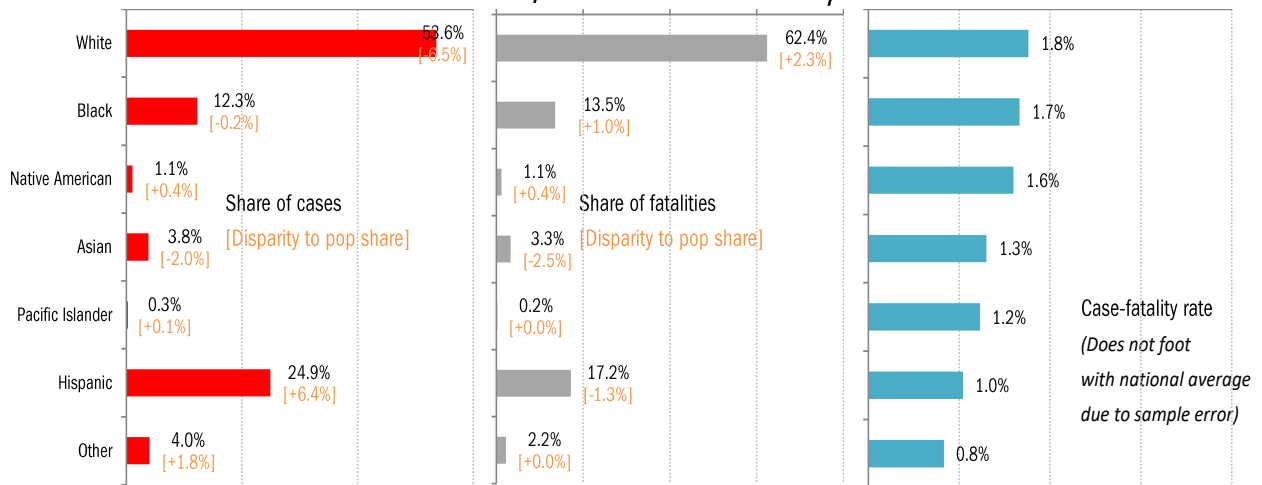


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

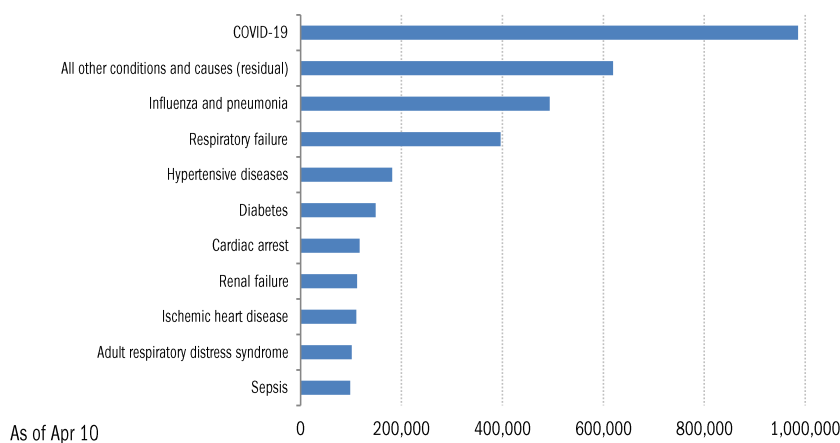


Racial distribution of US cases, fatalities and case-fatality rates



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

[A tale of many pandemics: In year three, a matter of status and access](#)

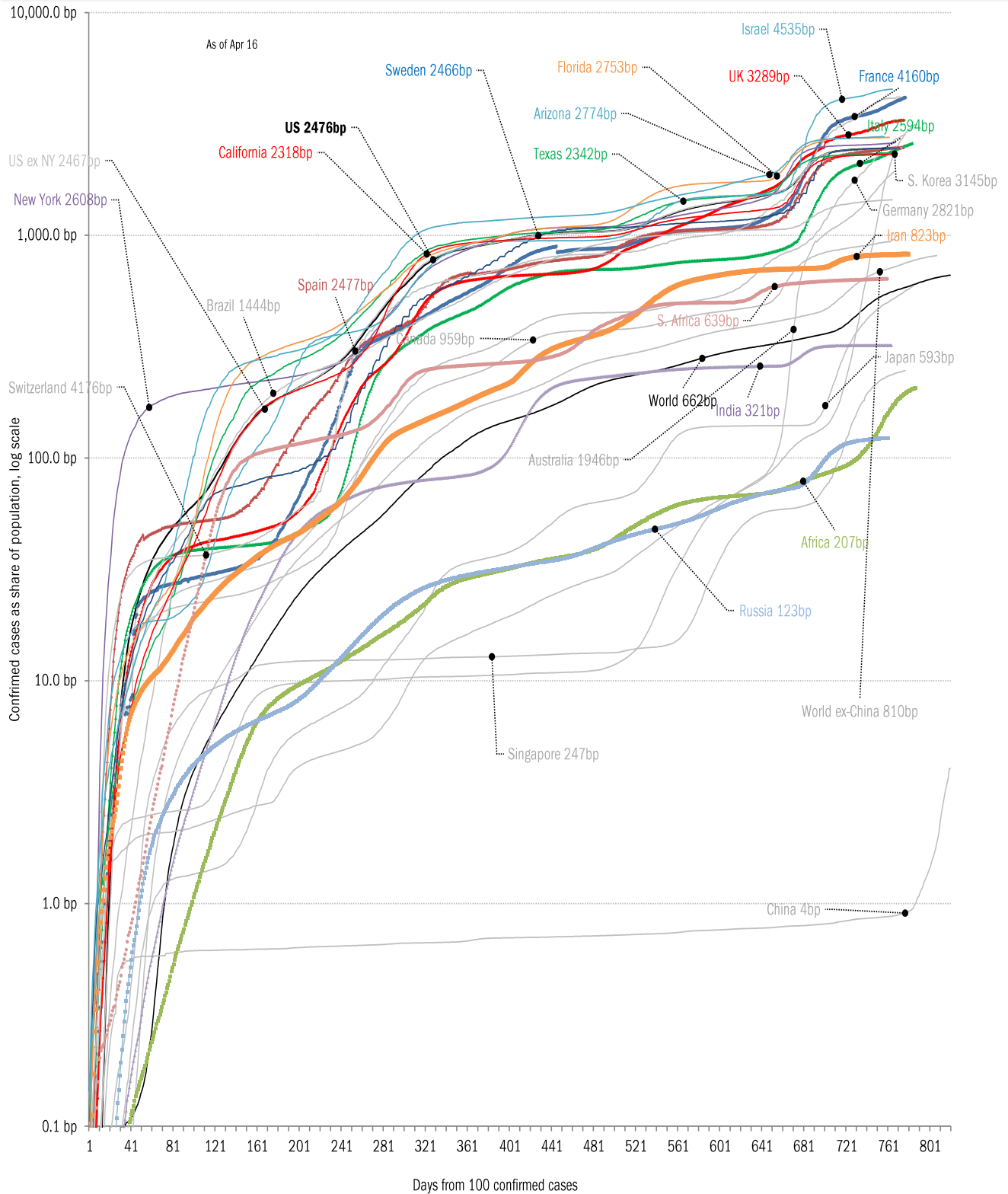
Yasmeen Abutaleb
Washington Post
April 16, 2022

Meme of the day



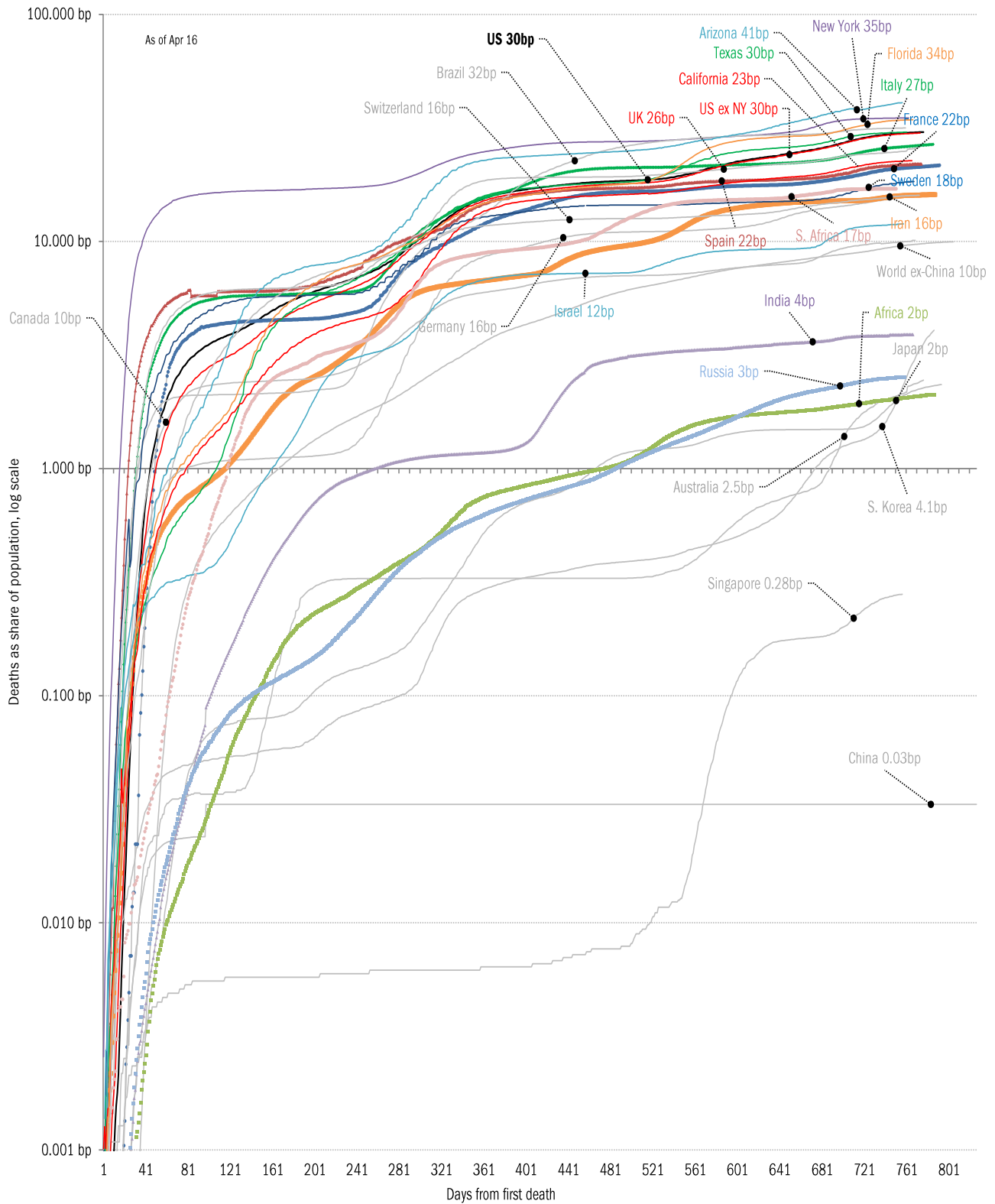
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

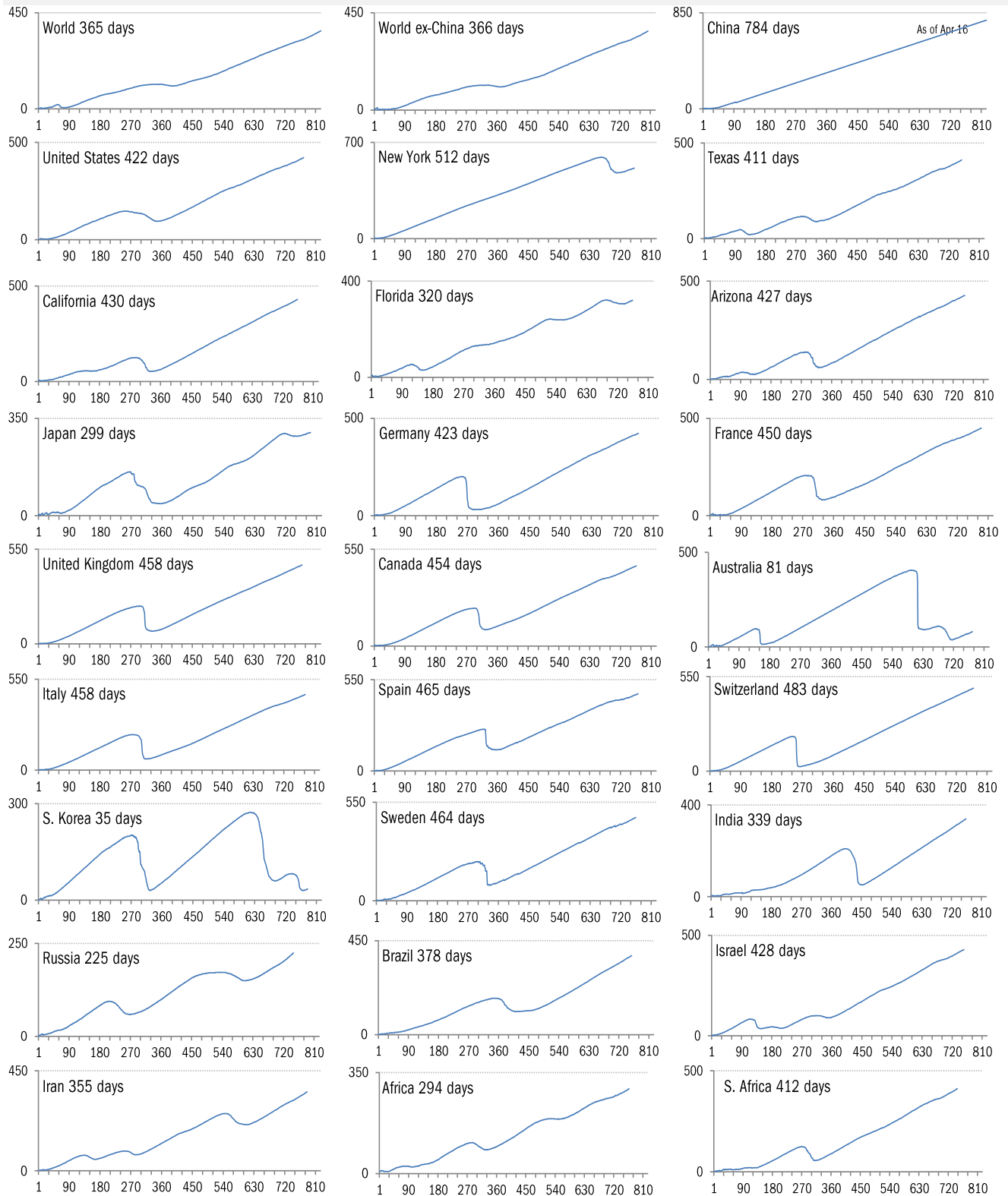


Source: [Johns Hopkins](#), TrendMacro calculations

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

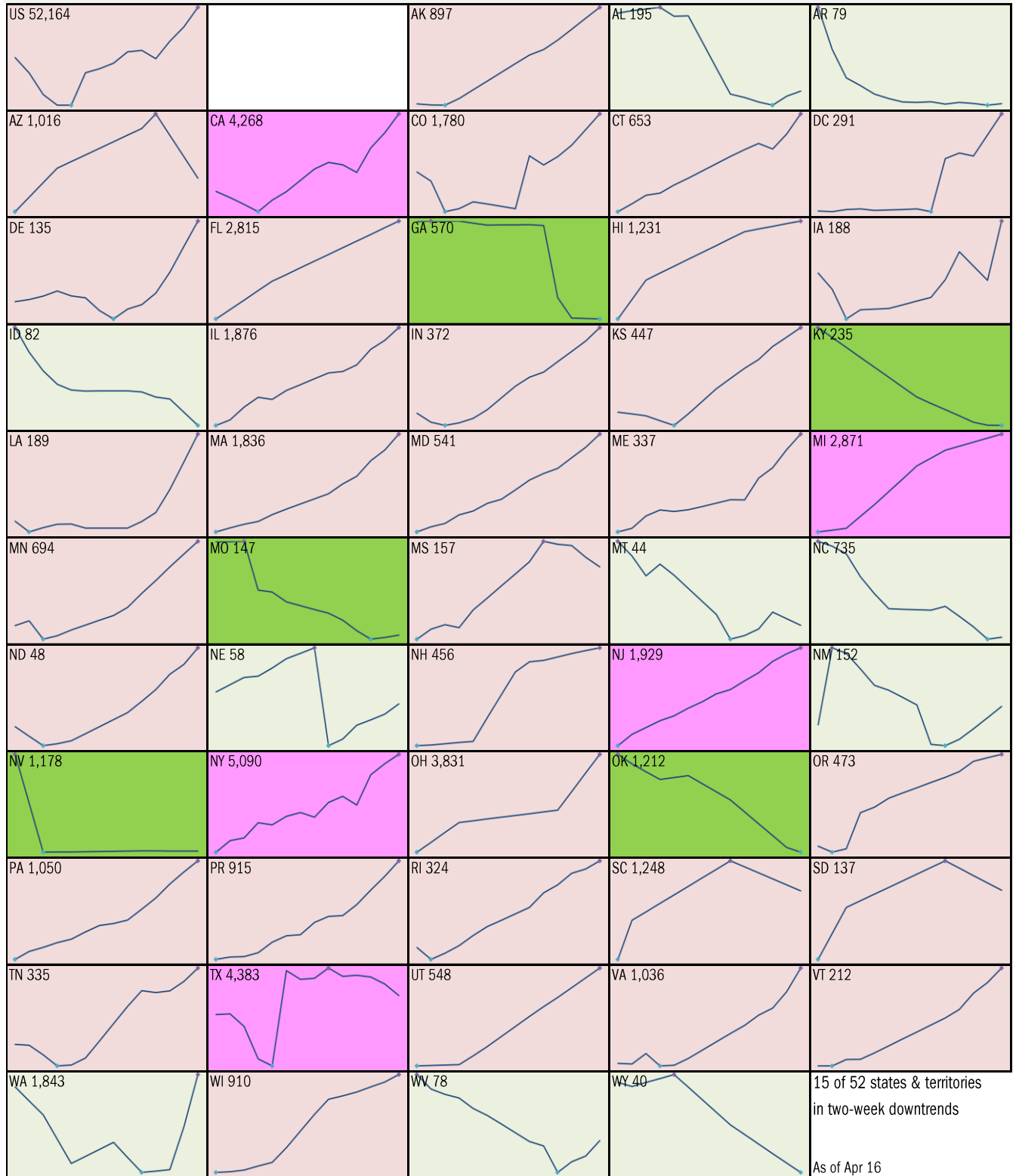


Source: [Johns Hopkins](#), TrendMacro calculations

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

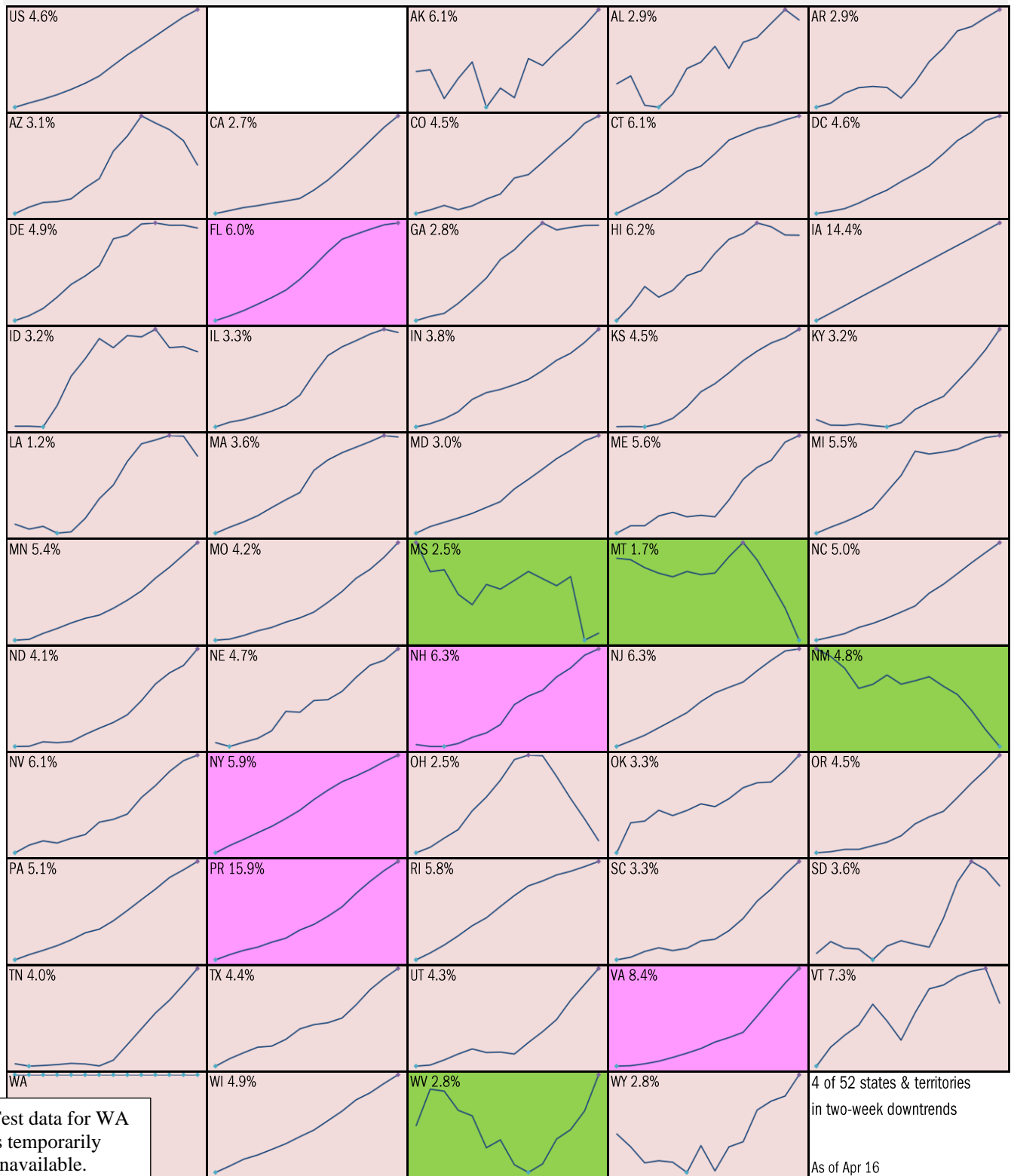


Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

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

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

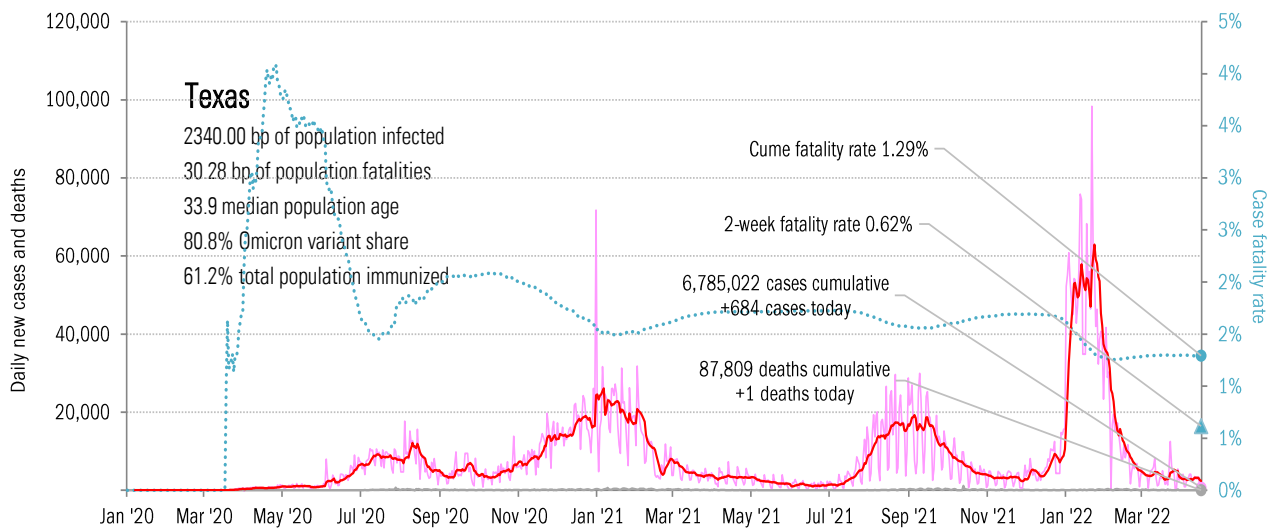
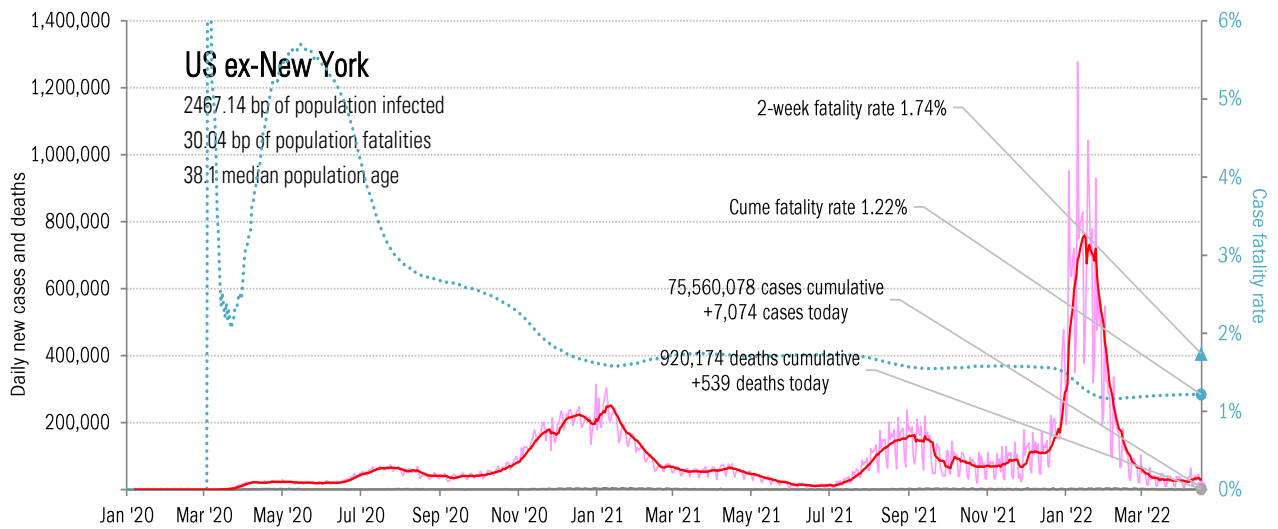
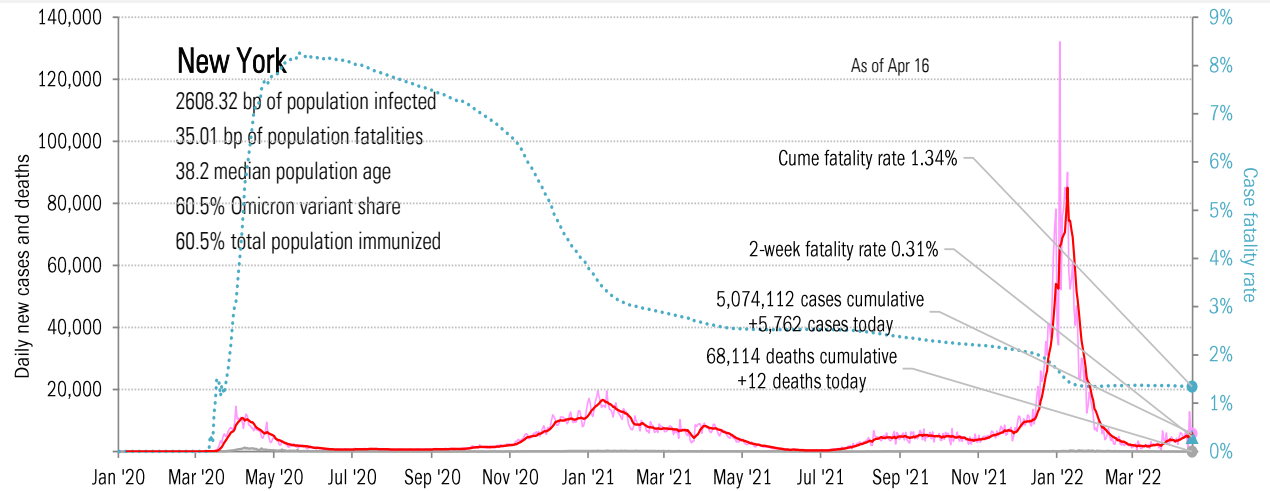
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

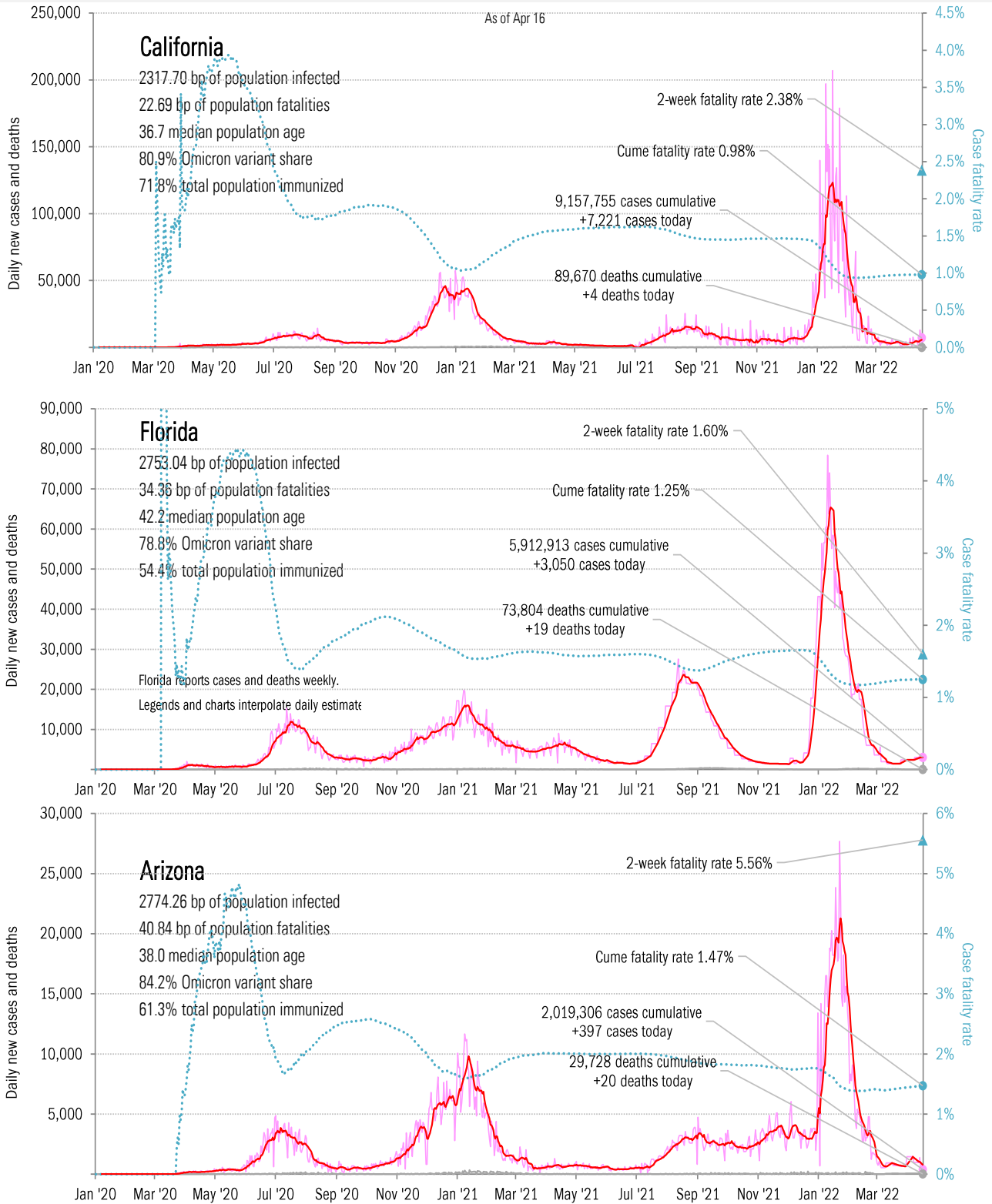
Cases: 7-day average and daily Deaths: Daily



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

The sun-belt hot-spot states

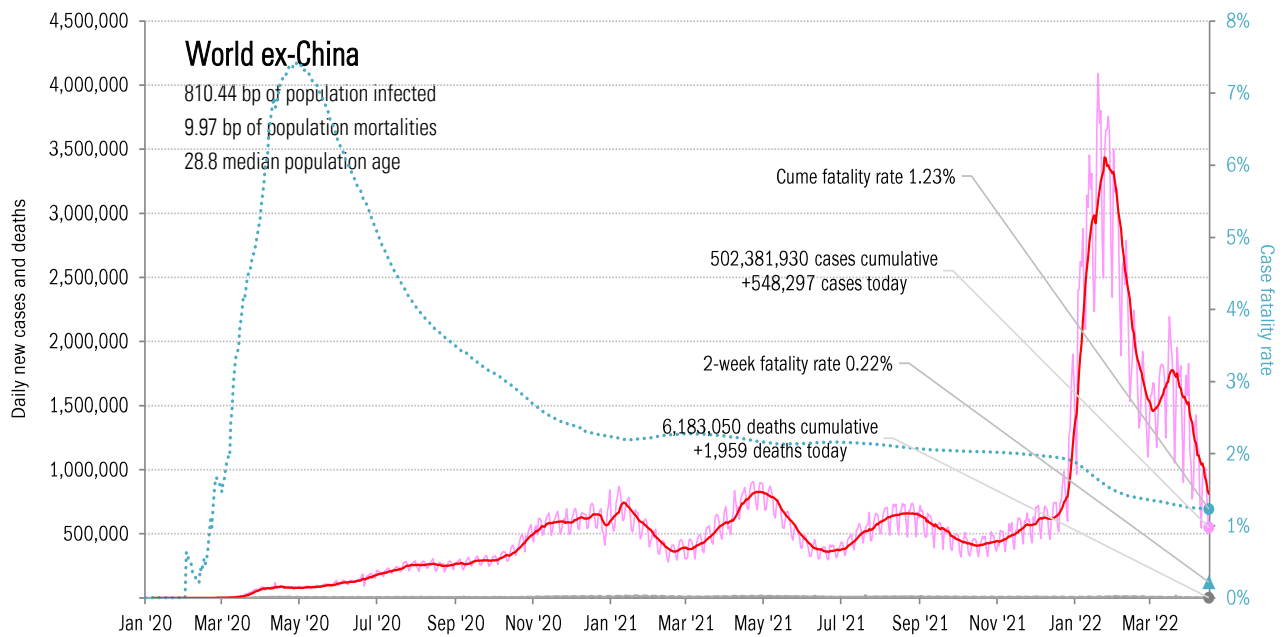
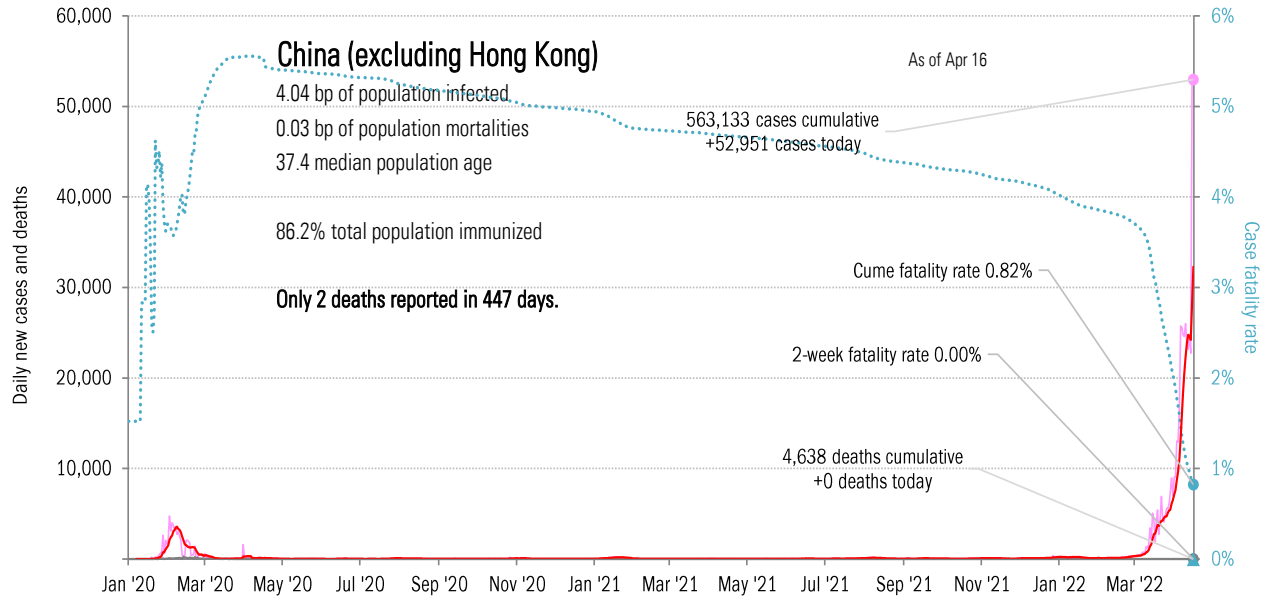
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

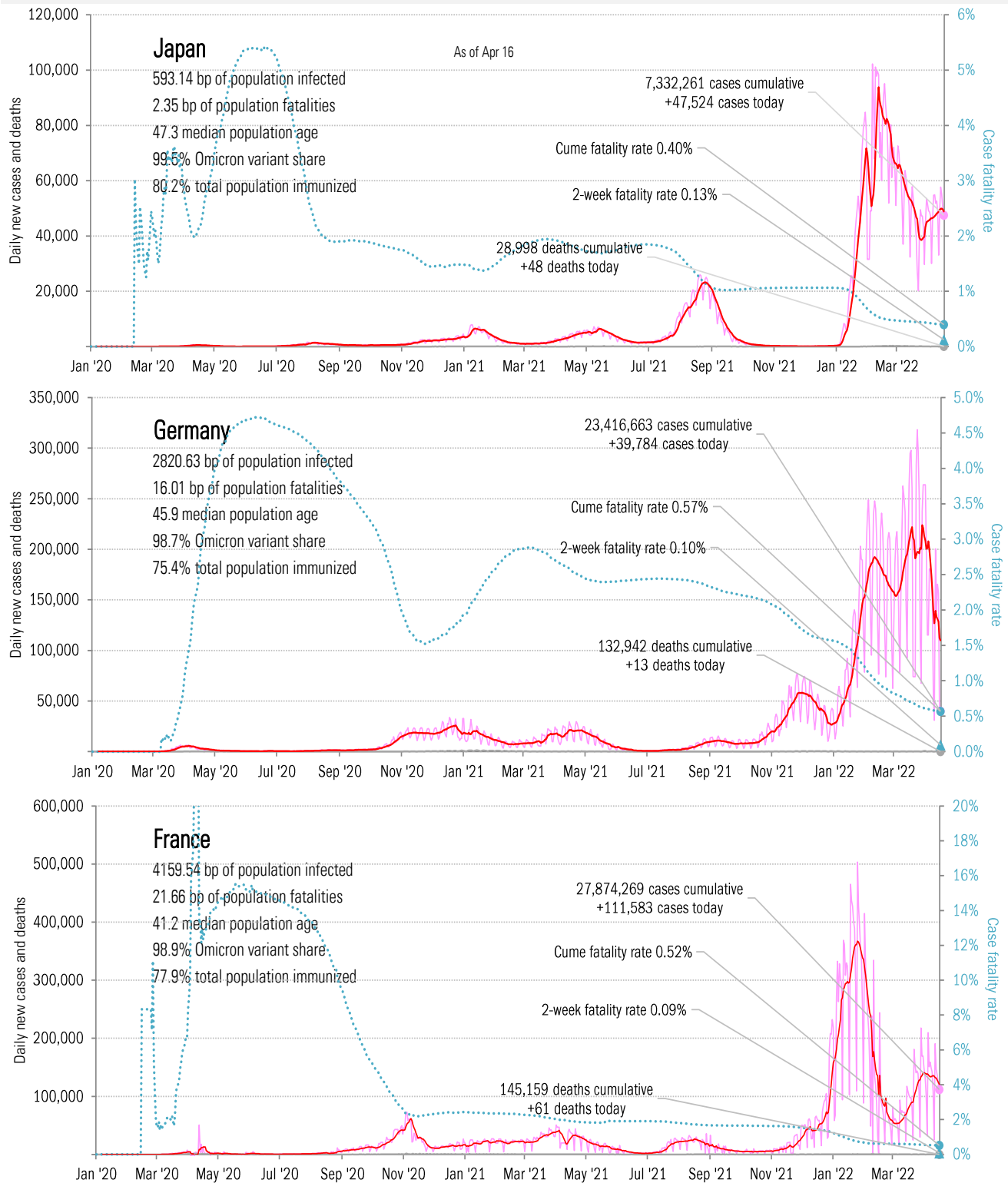
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

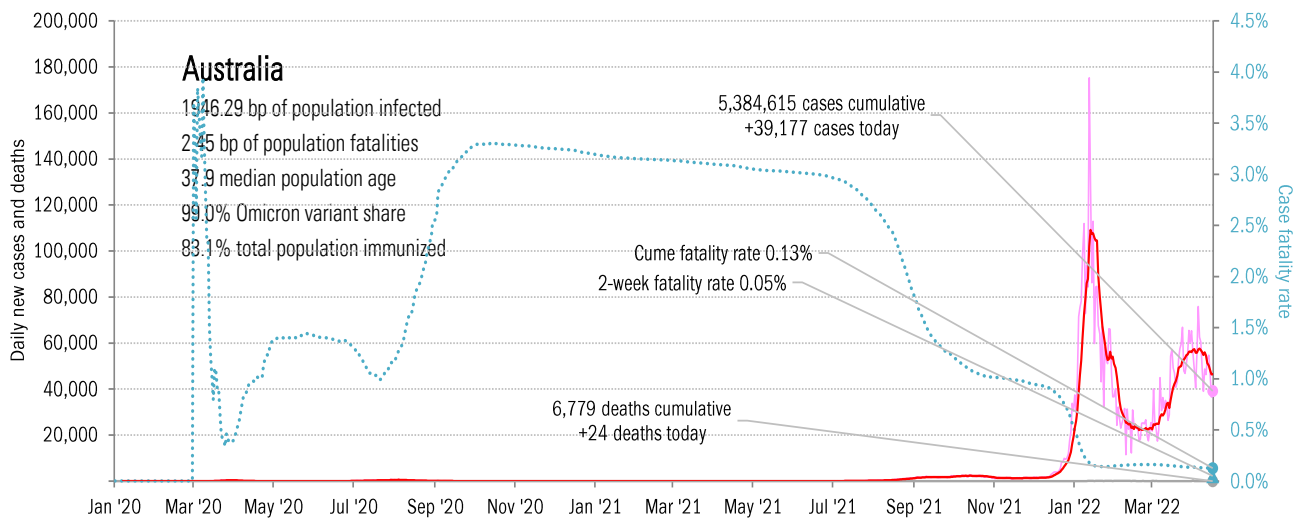
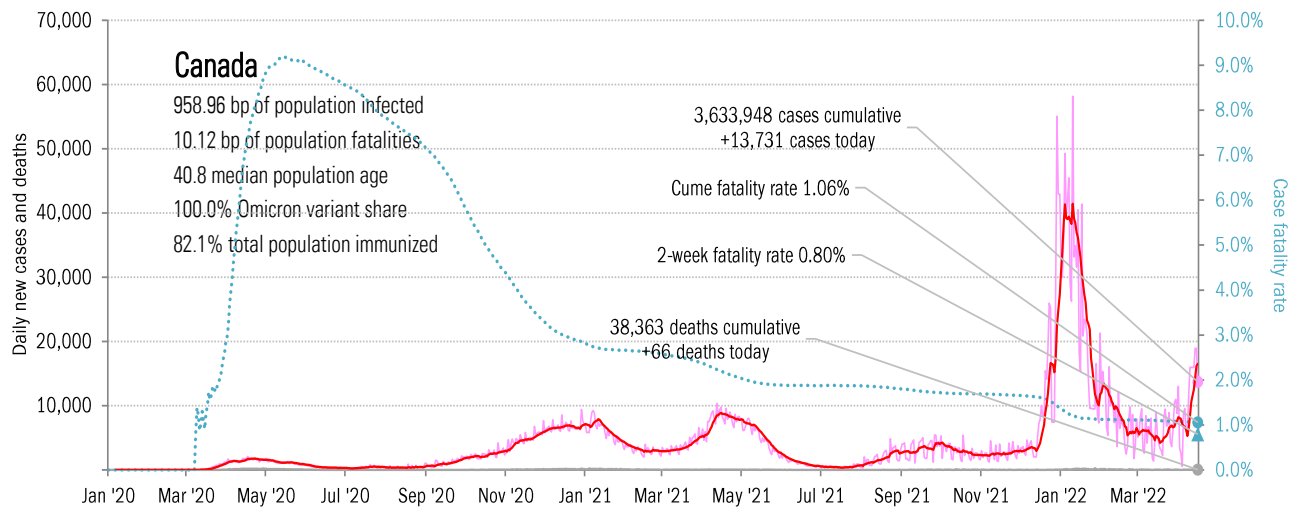
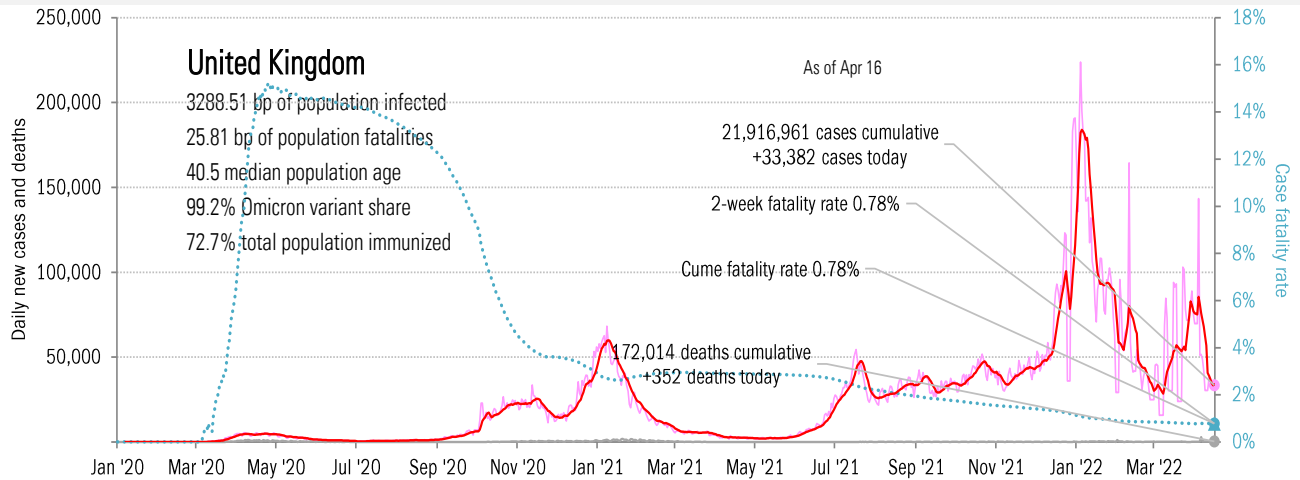
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

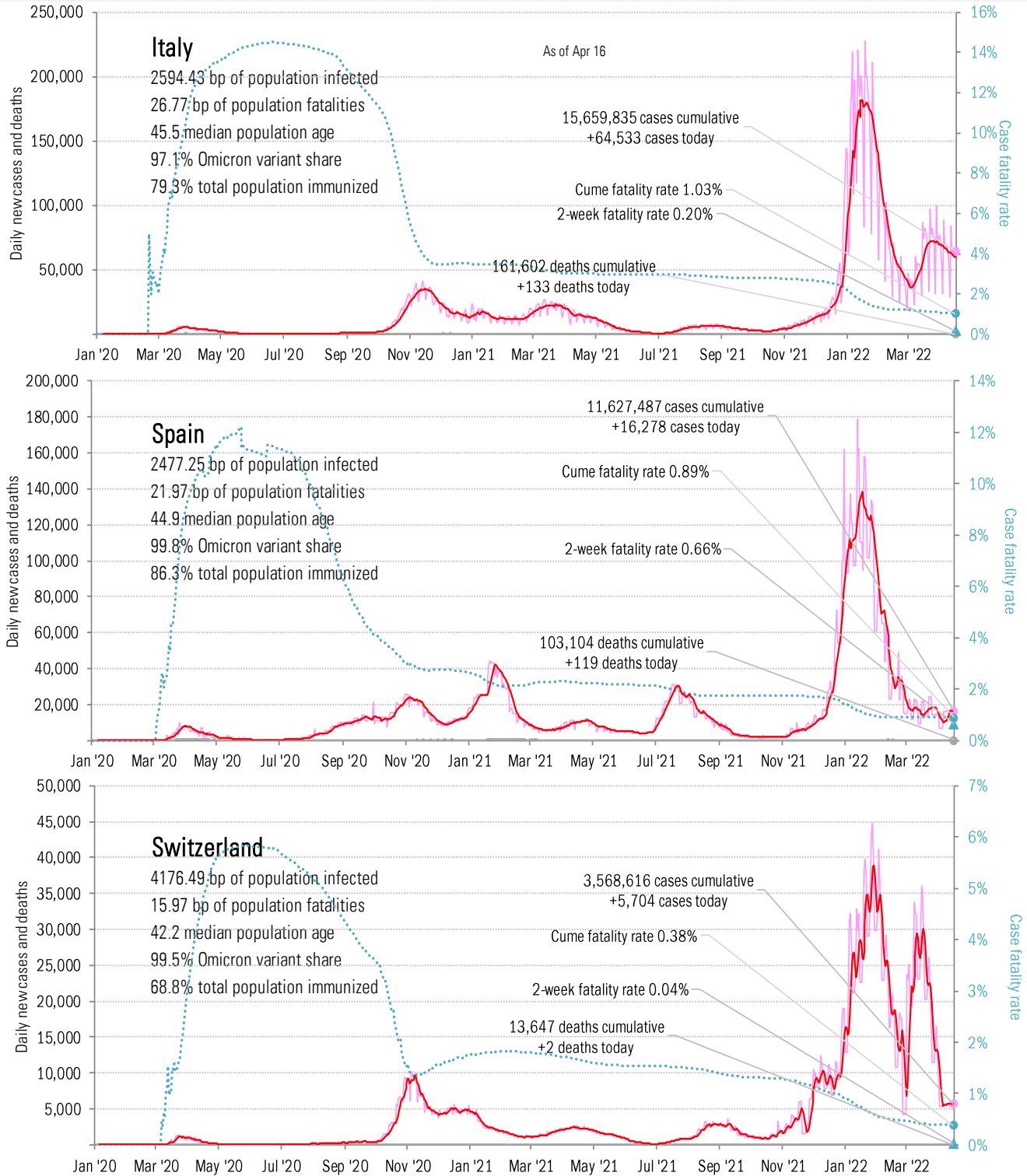
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

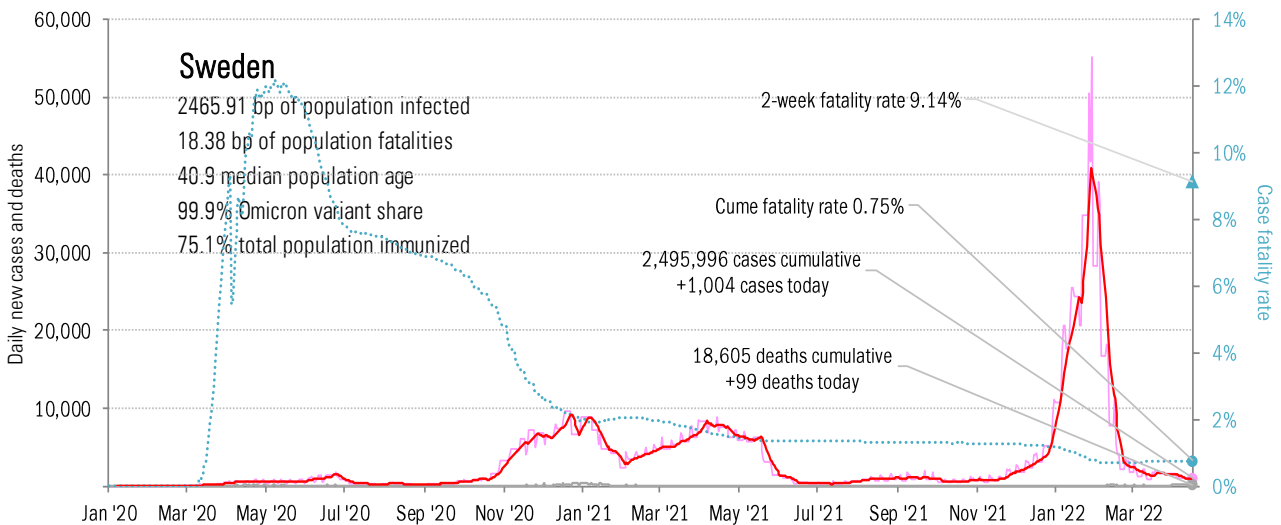
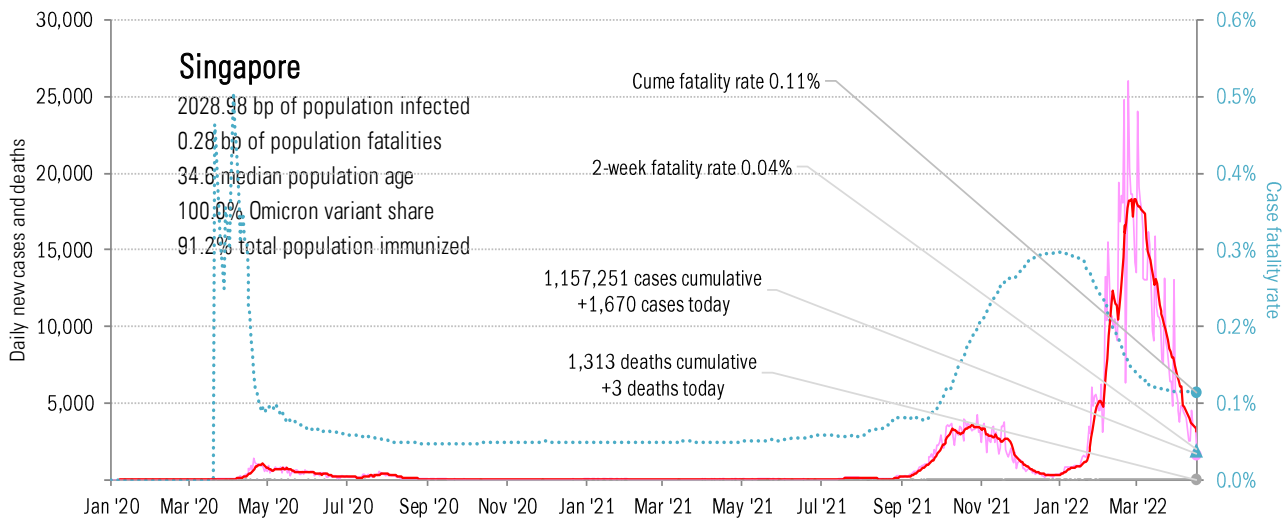
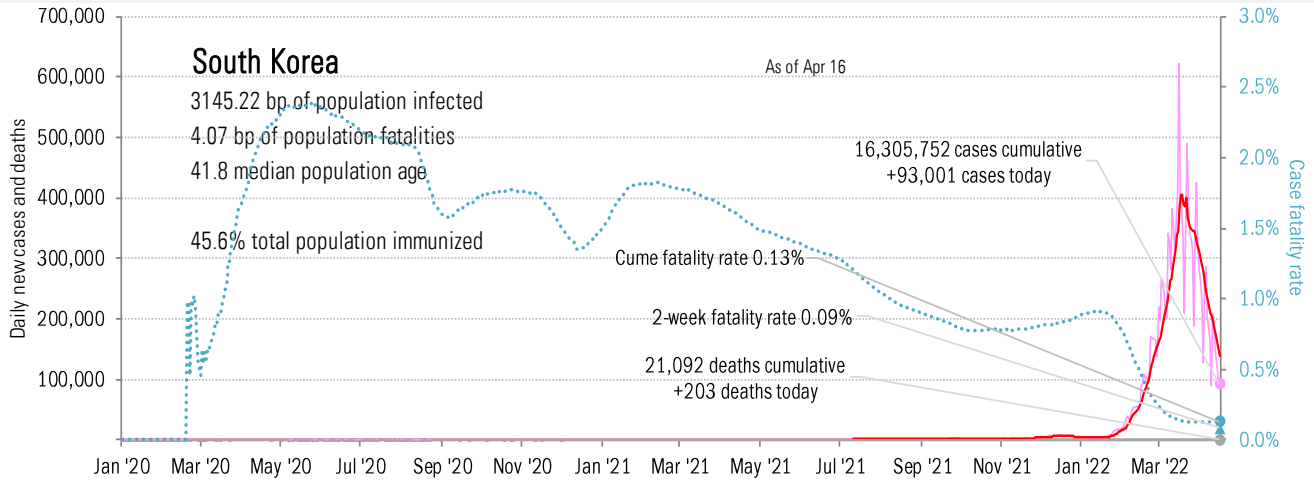
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

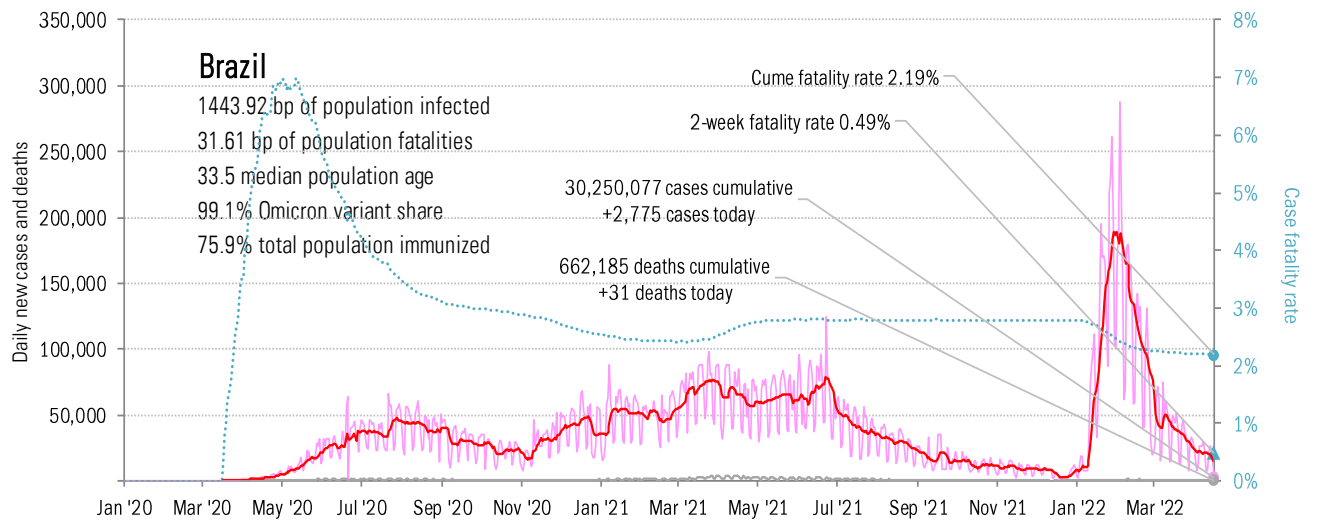
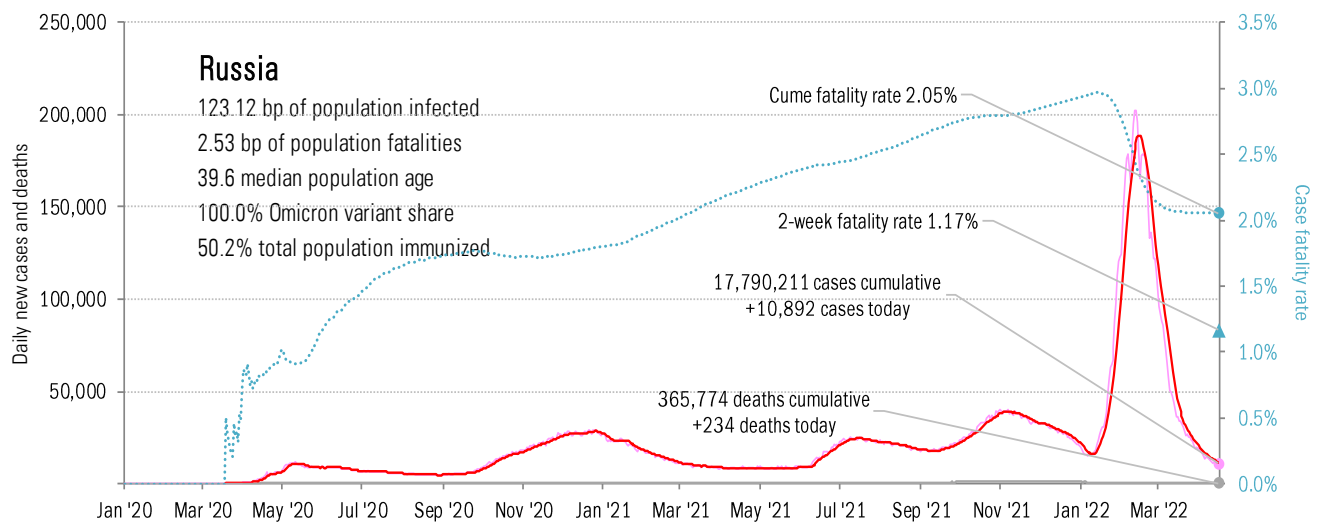
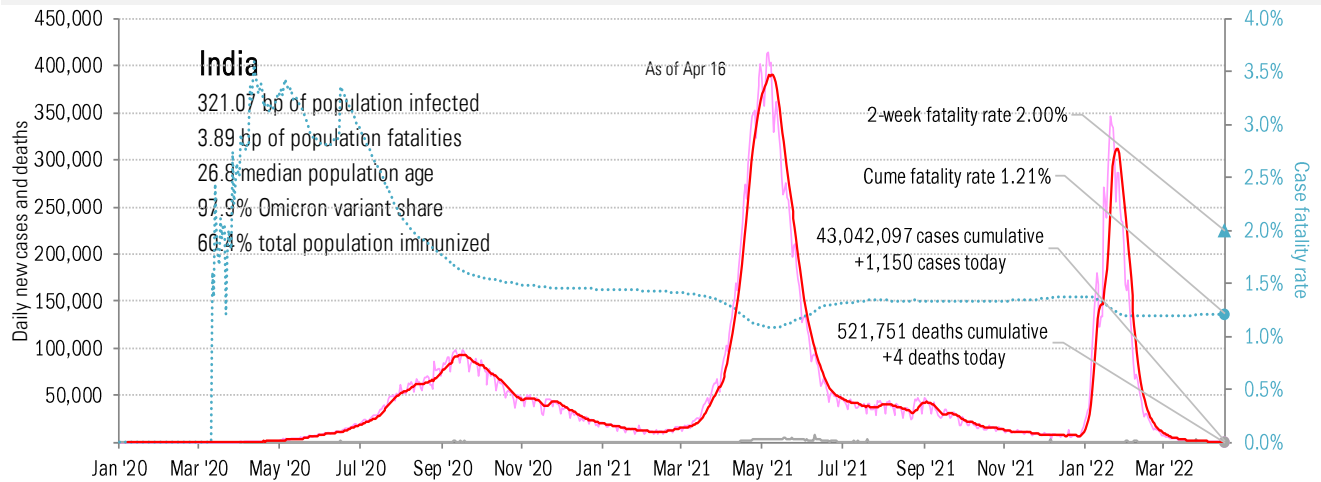
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

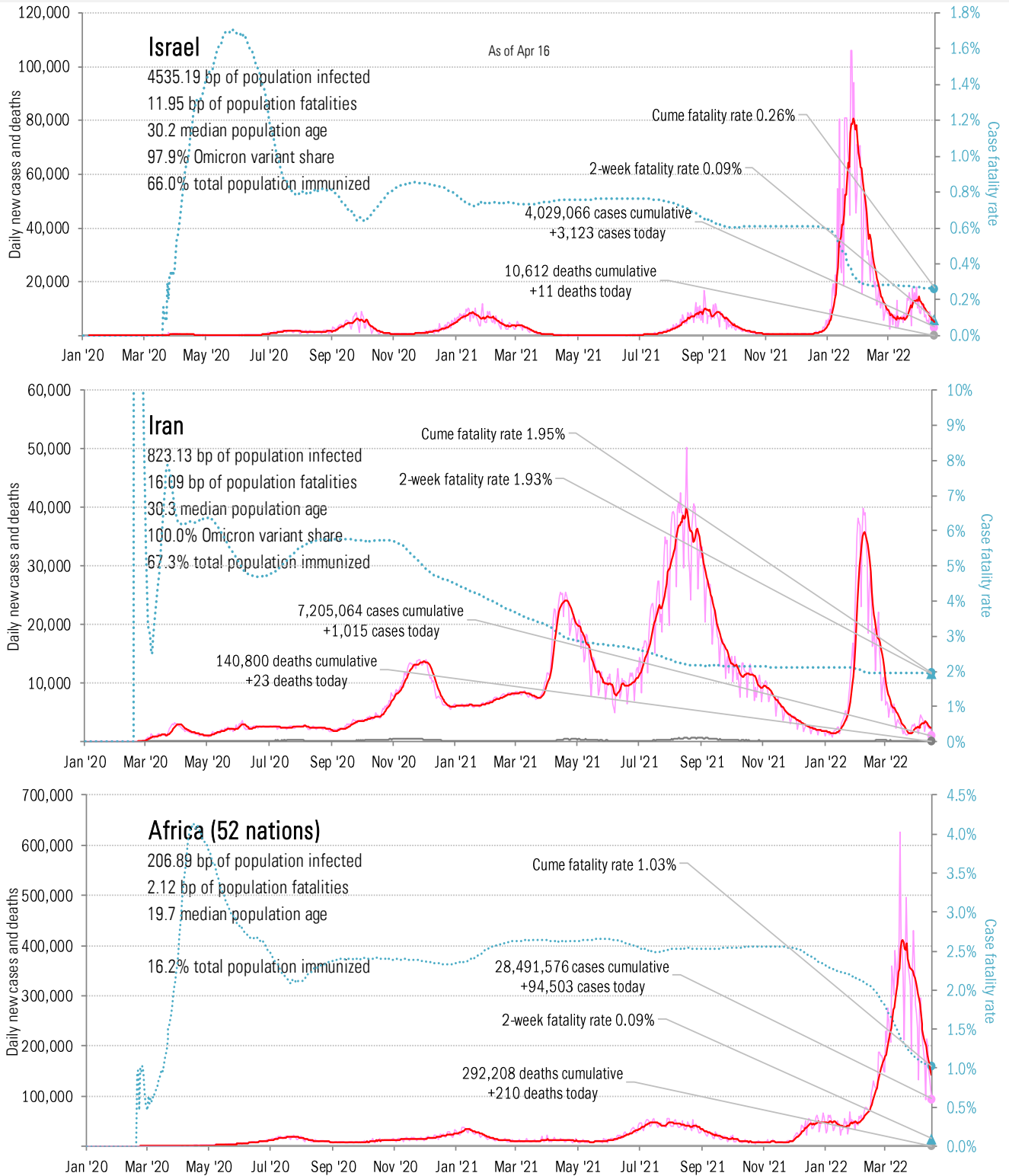
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

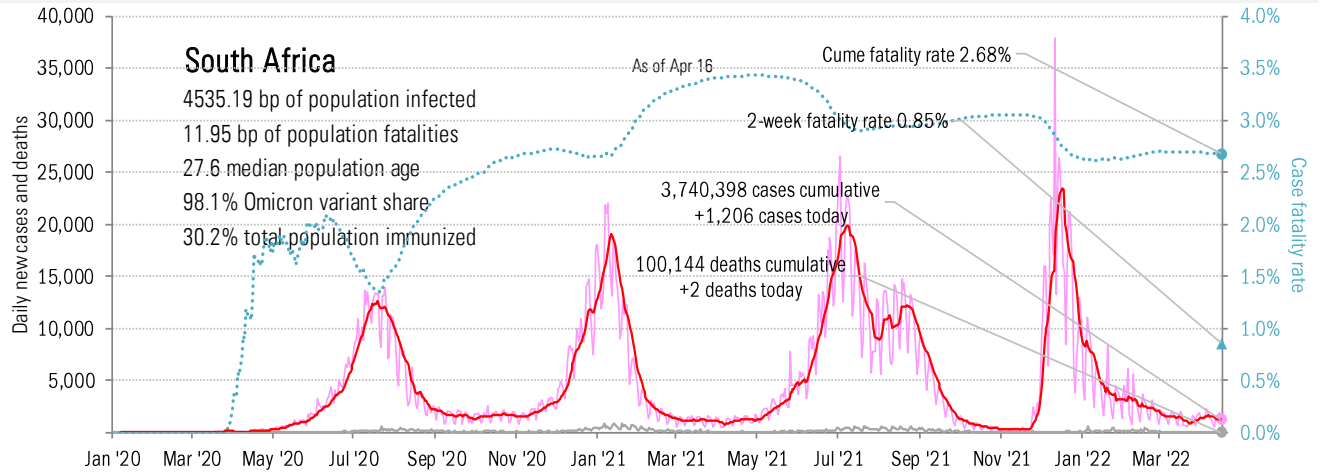
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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