

Data Insights: Covid-2019 Monitor

Monday, April 11, 2022

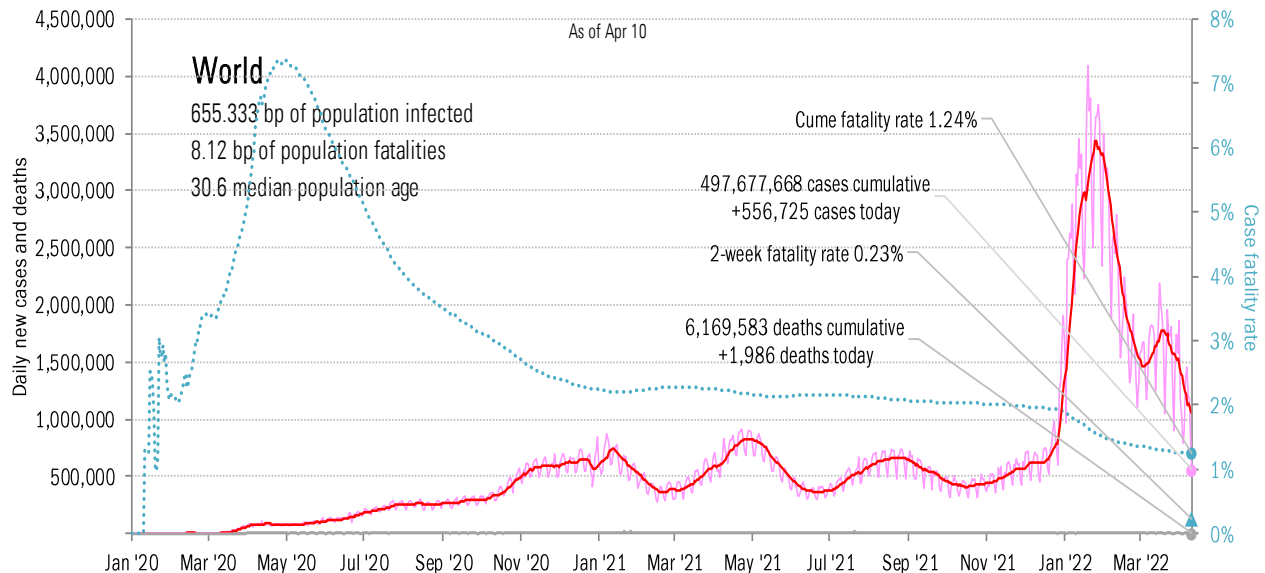
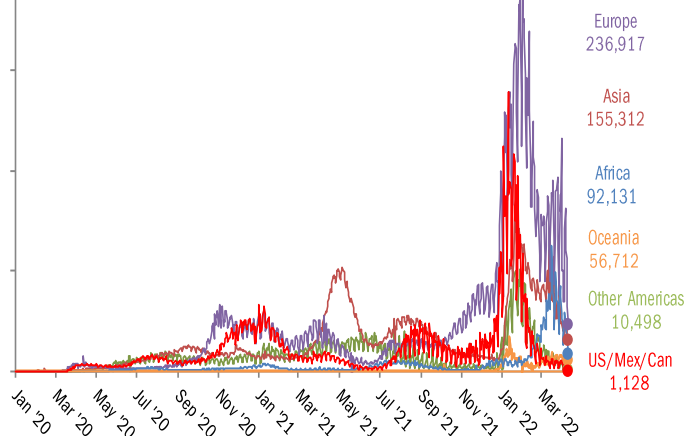
The global scorecard

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

The worst ten countries

New cases		New Deaths	
France	107,654	United States	597
Korea, South	90,928	Korea, South	258
Italy	53,920	Russia	254
Japan	49,048	Thailand	105
Australia	48,724	Italy	90
Germany	30,789	Greece	54
Vietnam	28,307	France	45
China	25,071	Chile	44
Thailand	22,387	Iran	39
Russia	12,832	Japan	39
469,660		1,525	
World	556,725	World	1,986
Top ten	84%	Top ten	77%

New confirmed cases by continent



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

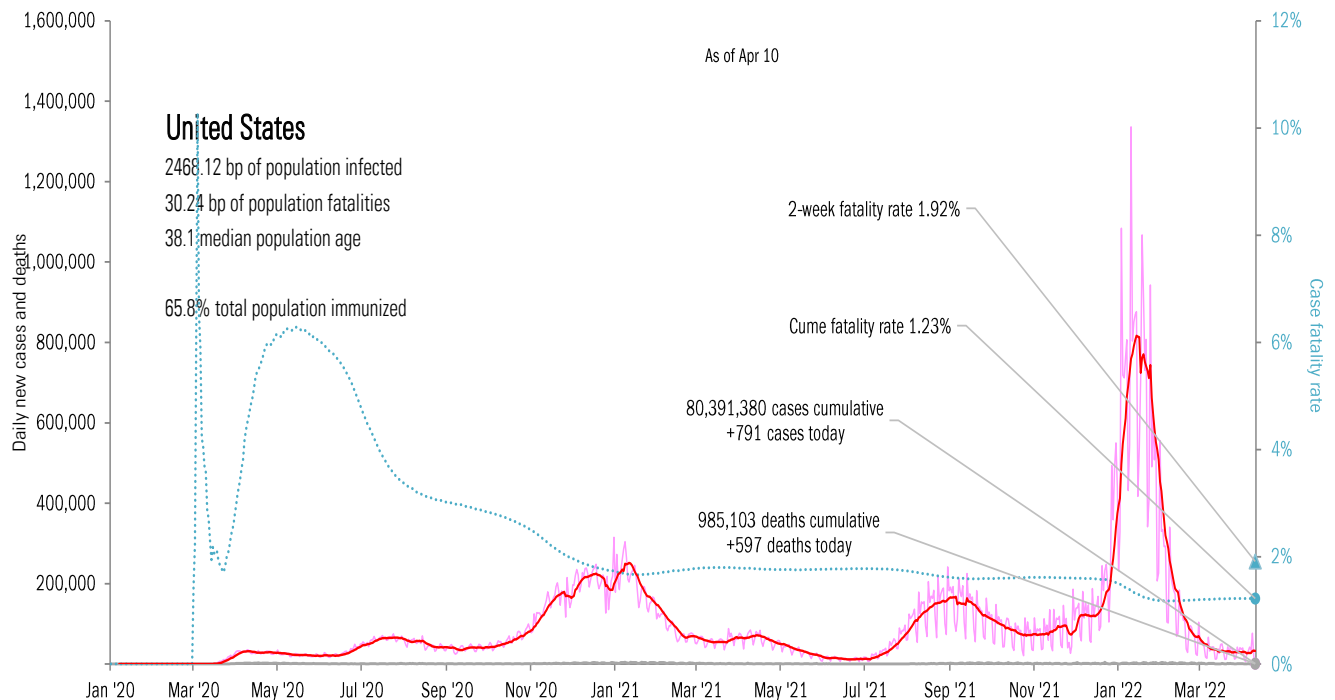
The ten worst US states

New cases			New deaths		New in hospital		Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
NY	4,699		AZ	59	NY	186	CA	9,132,927	CA	89,358	TX	488,127	RI	88%	RI	88%			
FL	3,050		FL	38	CA	140	TX	6,772,009	TX	87,715	CA	423,915	MA	86%	AK	84%			
NJ	1,811		NY	7	AZ	79	FL	5,900,714	FL	73,666	FL	414,221	MN	83%	TX	82%			
FR	1,278		PA	7	AR	36	NY	5,037,932	NY	68,055	NY	246,353	MD	83%	KY	82%			
AZ	977		TX	4	IL	68	IL	3,080,436	PA	44,424	GA	206,886	MO	82%	AL	80%			
PA	518		AR	3	OH	49	PA	2,789,262	CH	38,166	CH	190,457	WA	82%	NC	80%			
KY	215		FR	1	FL	93	CH	2,676,629	GA	37,332	PA	175,919	WV	80%	WA	78%			
DE	141		AK	0	NV	27	NC	2,634,007	IL	35,898	IL	157,016	PA	79%	MA	78%			
AR	30		AL	0	NC	37	GA	2,503,082	MI	35,776	MI	141,074	DC	79%	DE	77%			
AK	0		AS	0	KS	18	MI	2,393,265	NJ	33,298	KY	132,813	CH	79%	WV	77%			
12,719			119		733		42,920,263			543,688			2,576,781						
All states	791		597		1,500		All states	80,391,380	985,103			4,679,147			All states	70%	67%		
Top ten	1608%		20%		49%		Top ten	53%	55%			55%			Median	75%	71%		

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-14,182	FL	-53	OK	-15	CT	+10 bp
OK	-832	TX	-42	WV	-13	ID	+10 bp
PA	-539	DE	-13	H	-11	IL	+10 bp
TN	-479	PA	-6	RI	-8	KS	+10 bp
IA	-246	NJ	-4	IA	-7	NM	+10 bp



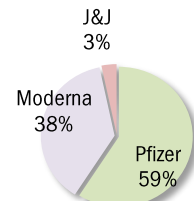
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	580,704,287	+0.222 million	US	65.8%	77.2%
Boosters	100,003,460	+0.040 million	UK	72.6%	77.5%
	One dose	% Pop	Immune	% pop	New immune today
Total population	263,911,568	79%	224,635,642	67%	+0.030 million
Age 12 to 17	17,608,055	70%	15,027,679	59%	+0.002 million
Age 18 to 64	177,687,117	87%	150,751,923	74%	+0.014 million
Age 65 and over	58,480,032	100%	50,725,051	93%	+0.010 million

France	77.8%	80.1%
Spain	86.2%	88.1%
Germany	75.4%	75.9%
Italy	79.3%	84.1%
Australia	82.9%	86.2%
Israel	66.0%	72.2%
Canada	82.0%	86.1%
Japan	80.0%	81.5%
Africa	15.4%	20.5%
India	60.2%	71.4%
Brazil	75.7%	84.9%
China	86.1%	88.5%

Global data differs due to sources, timing



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

Best
Middle
Worst

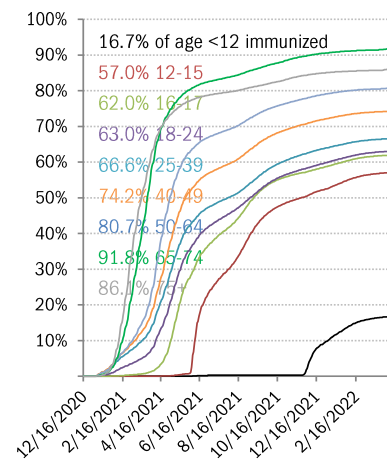
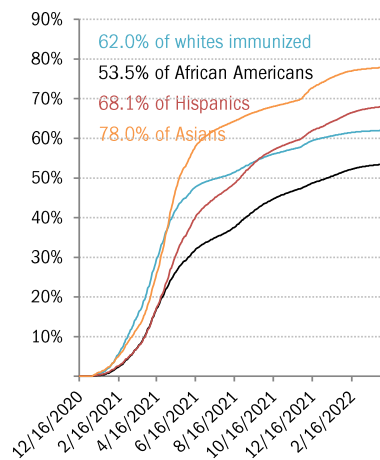
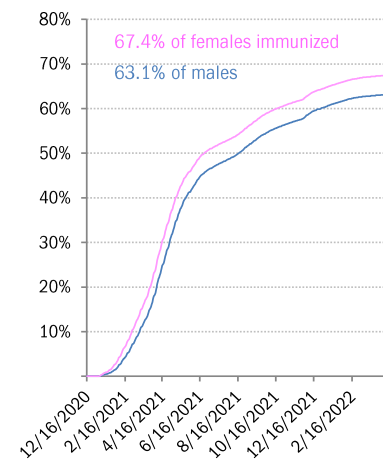
AK
69.4%
61.9%

Immunity = two doses

As of Apr 10

					WI 71.6% 65.2%					ME 89.8% 79.0%
WA 80.5% 72.2%	ID 60.9% 53.8%	MT 65.0% 56.5%	ND 64.7% 54.7%	MN 74.8% 68.9%	IL 76.4% 68.4%	MI 66.7% 59.9%		NY 89.8% 76.4%	VT 93.2% 80.8%	NH 90.5% 69.7%
OR 77.6% 69.3%	NV 74.8% 60.4%	WY 58.5% 51.3%	SD 75.9% 60.8%	IA 67.7% 61.7%	IN 61.2% 54.6%	OH 63.3% 58.2%	PA 84.3% 67.9%	NJ 89.9% 75.2%	MA 95.0% 78.4%	
CA 82.8% 71.4%	UT 71.9% 64.0%	CO 79.0% 69.9%	NE 70.0% 63.3%	MO 65.9% 55.7%	KY 65.9% 57.1%	WV 64.7% 57.3%	VA 85.2% 72.8%	MD 86.5% 75.8%	CT 94.9% 78.7%	RI 95.0% 81.9%
	AZ 72.5% 61.1%	NM 87.1% 70.6%	KS 74.2% 61.0%	AR 66.4% 54.1%	TN 61.9% 54.2%	NC 83.5% 60.3%	SC 67.2% 56.6%	DC 95.0% 73.3%	DE 82.6% 68.6%	
			OK 70.7% 56.8%	LA 60.8% 53.3%	MS 59.3% 51.6%	AL 62.4% 50.8%	GA 65.0% 54.4%			
			TX 72.5% 61.1%					FL 78.9% 66.6%		PR 94.6% 82.6%
HI 87.1% 77.9%										

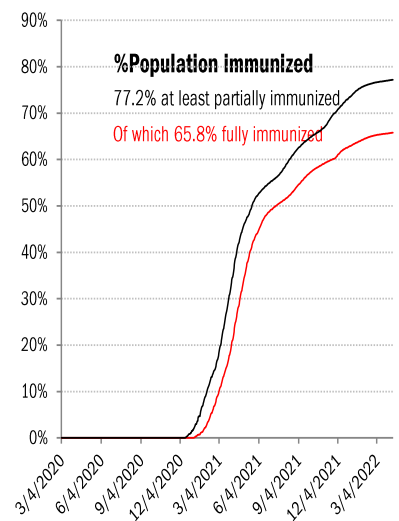
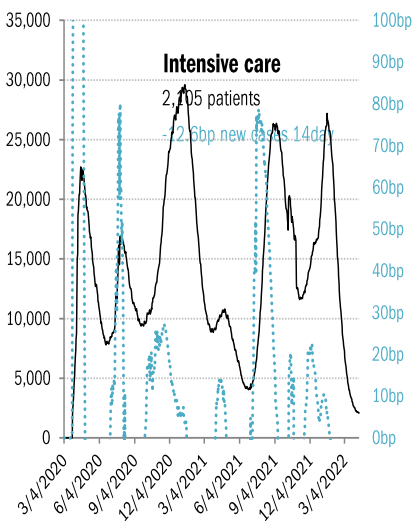
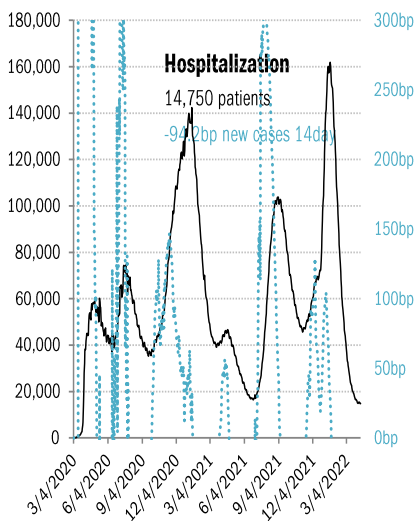
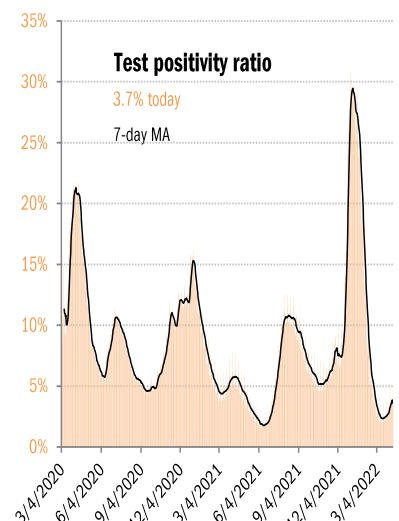
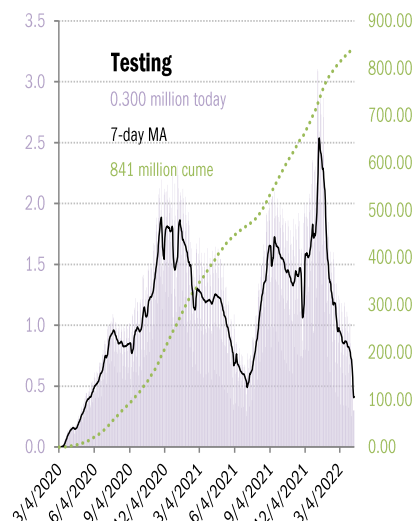
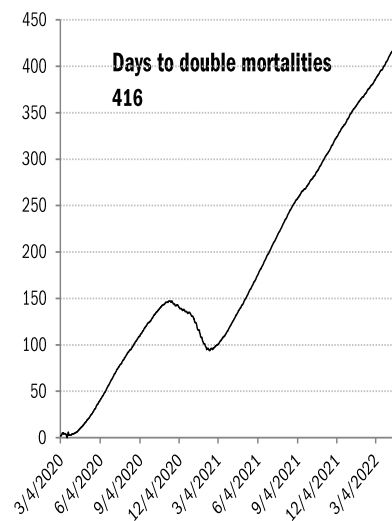
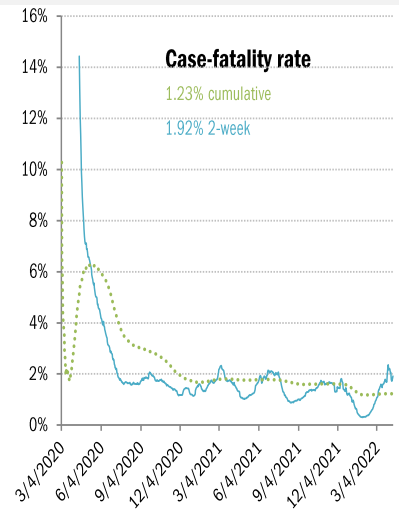
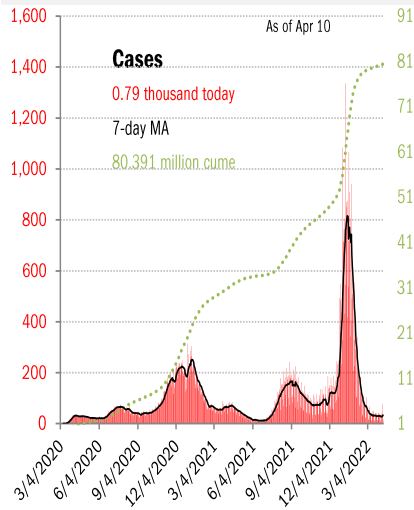
The demographics of US vaccination



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

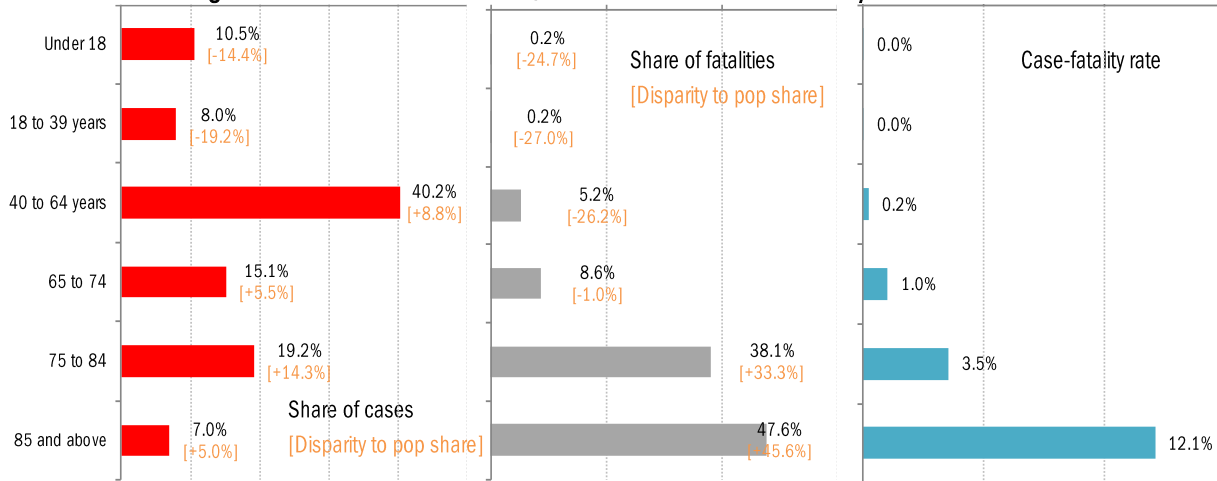
US deep-dive

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

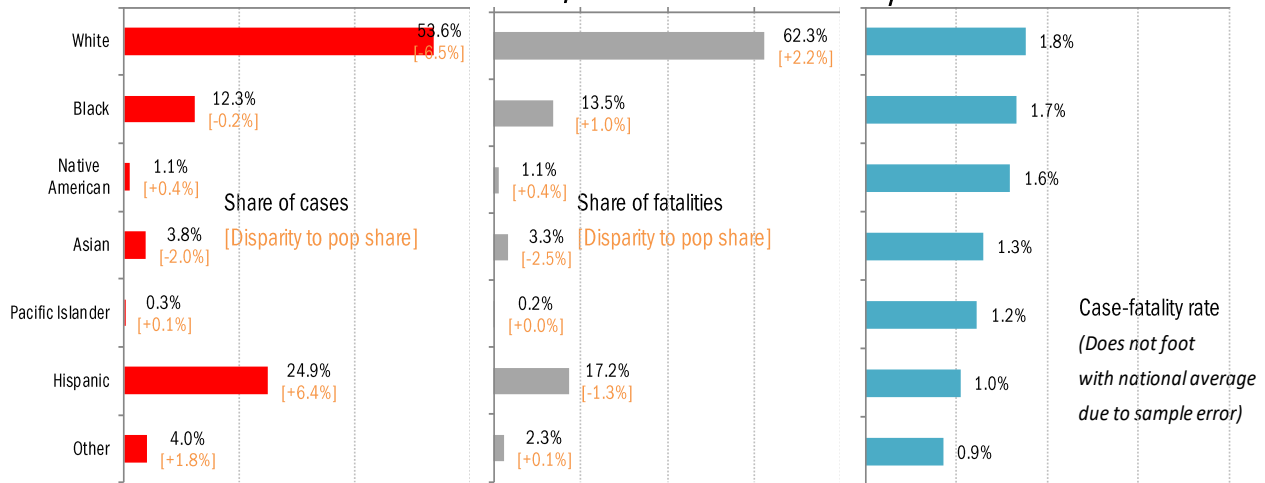


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

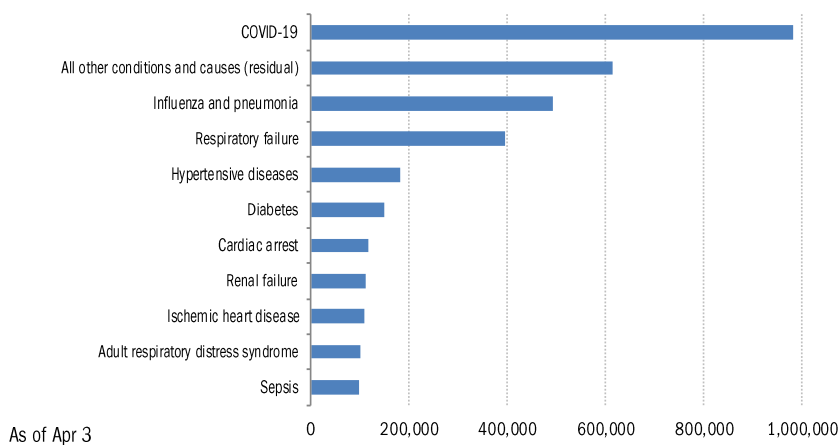


Racial distribution of US cases, fatalities and case-fatality rates



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.

Recommended reading

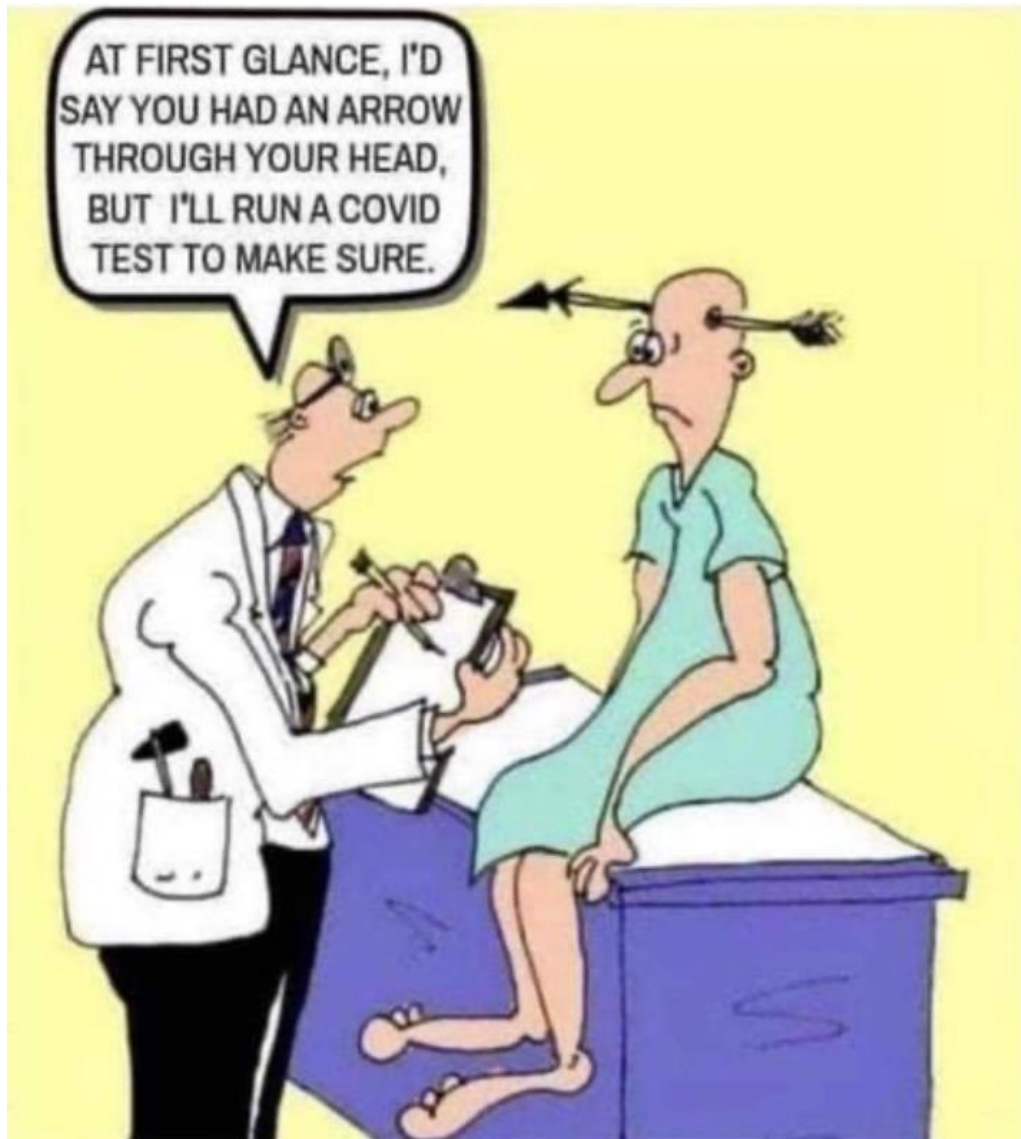
[A Final Report Card On The States' Response To Covid-19](#)

Phil Kerpen, Stephen Moore, Casey B. Mulligan
NBER
April 2022

[States of Covid Performance](#)

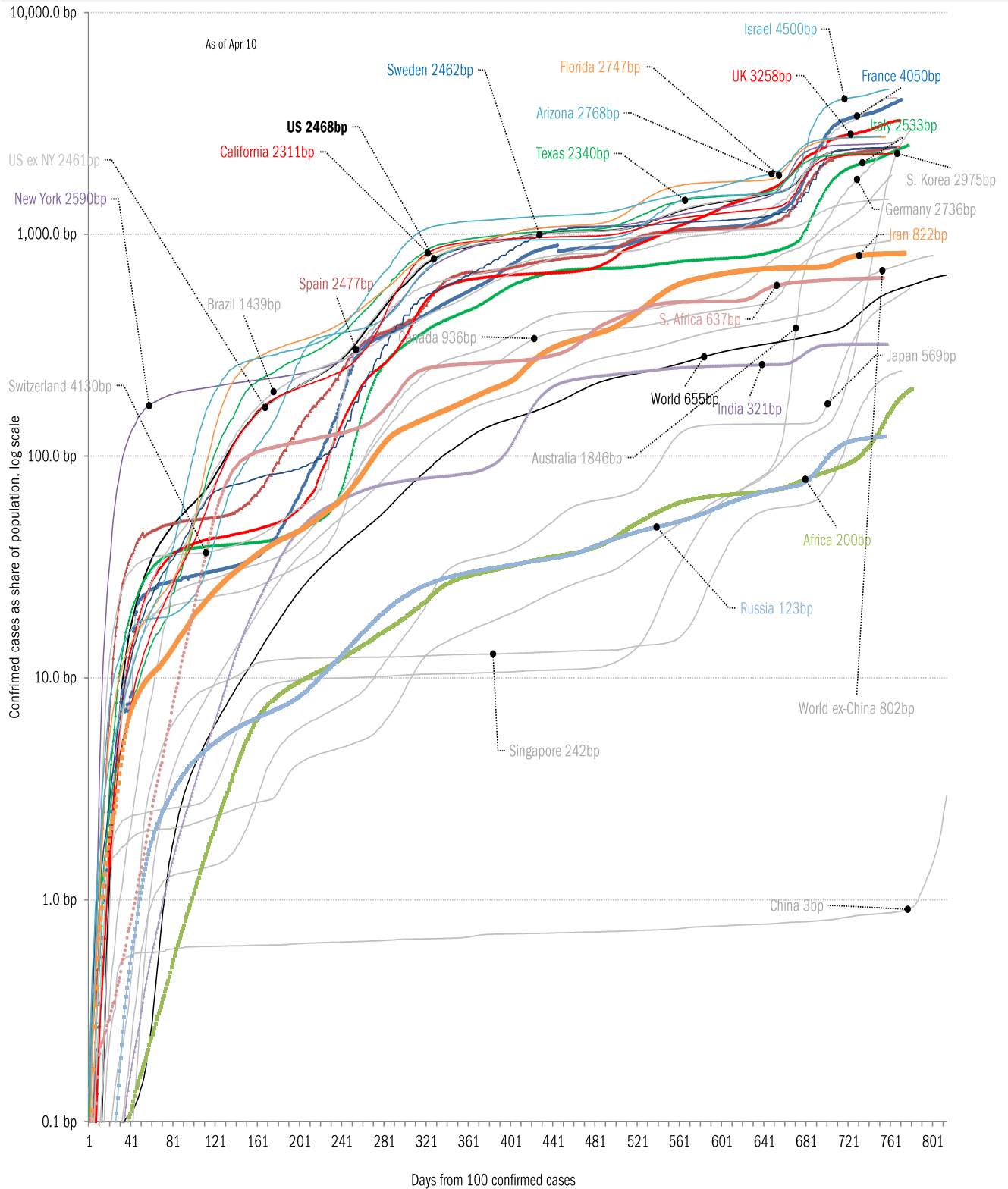
Wall Street Journal
April 10, 2022

Meme of the day



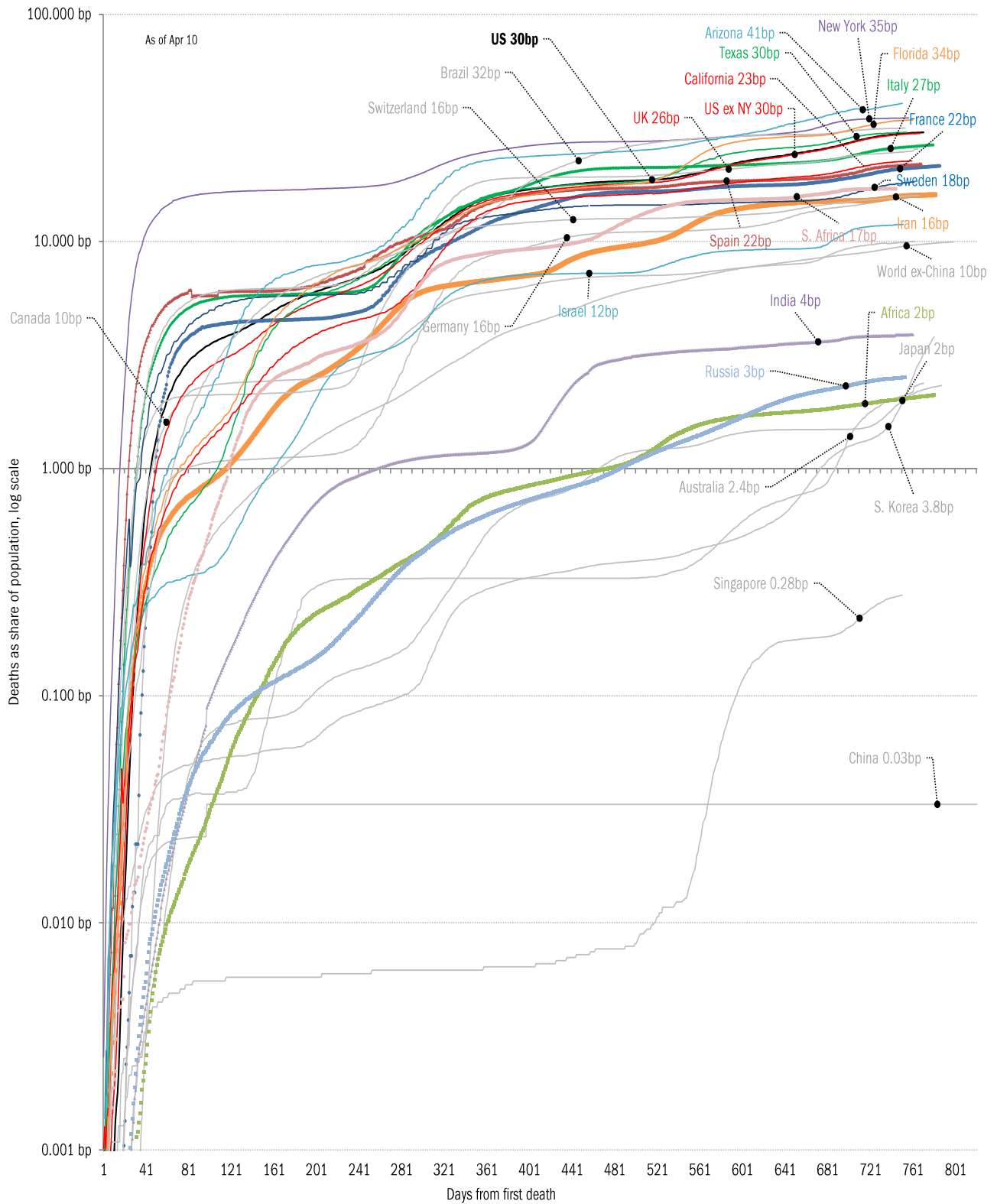
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

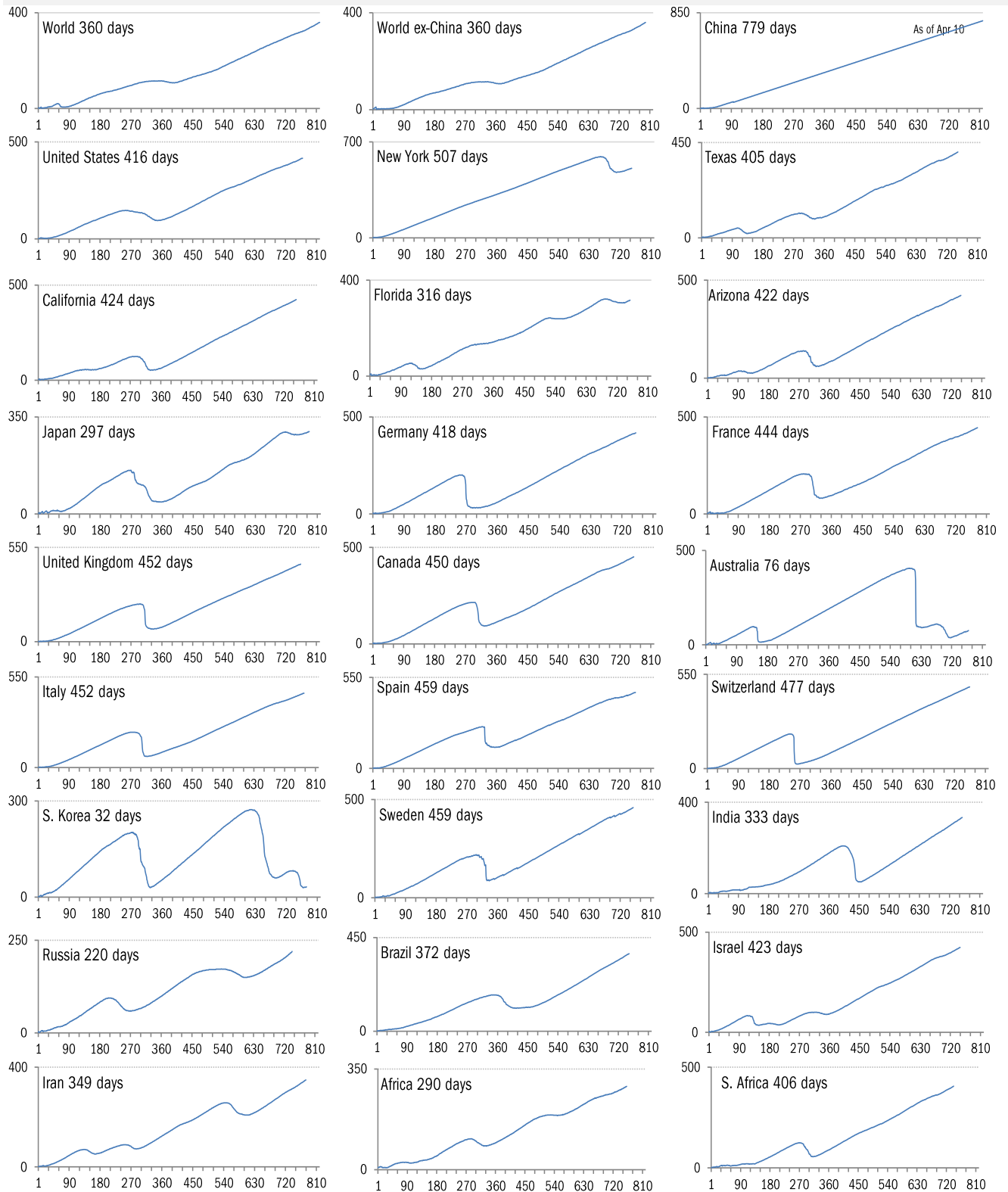


Source: [Johns Hopkins](#), TrendMacro calculations

"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

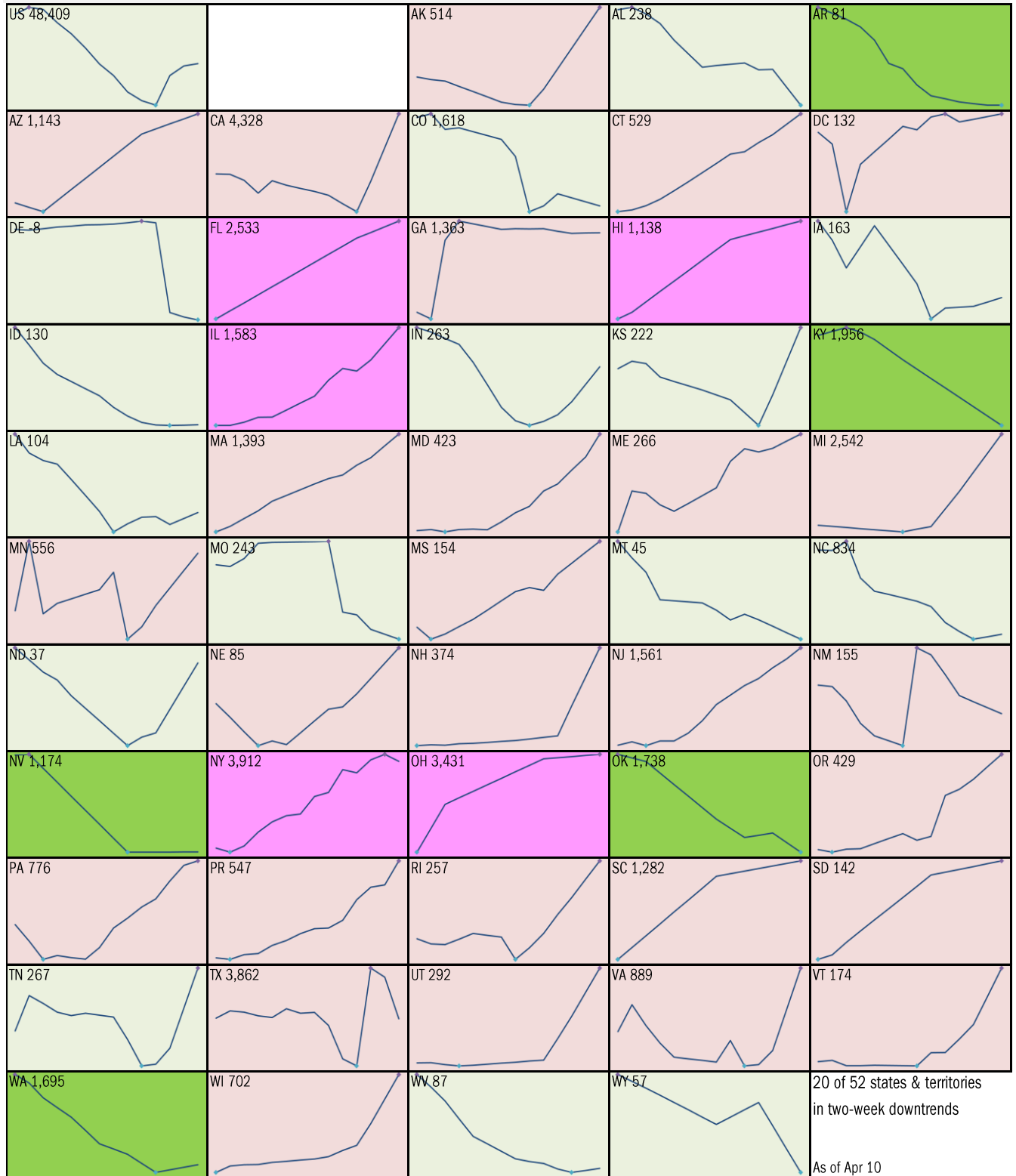


Source: [Johns Hopkins](#), TrendMacro calculations

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

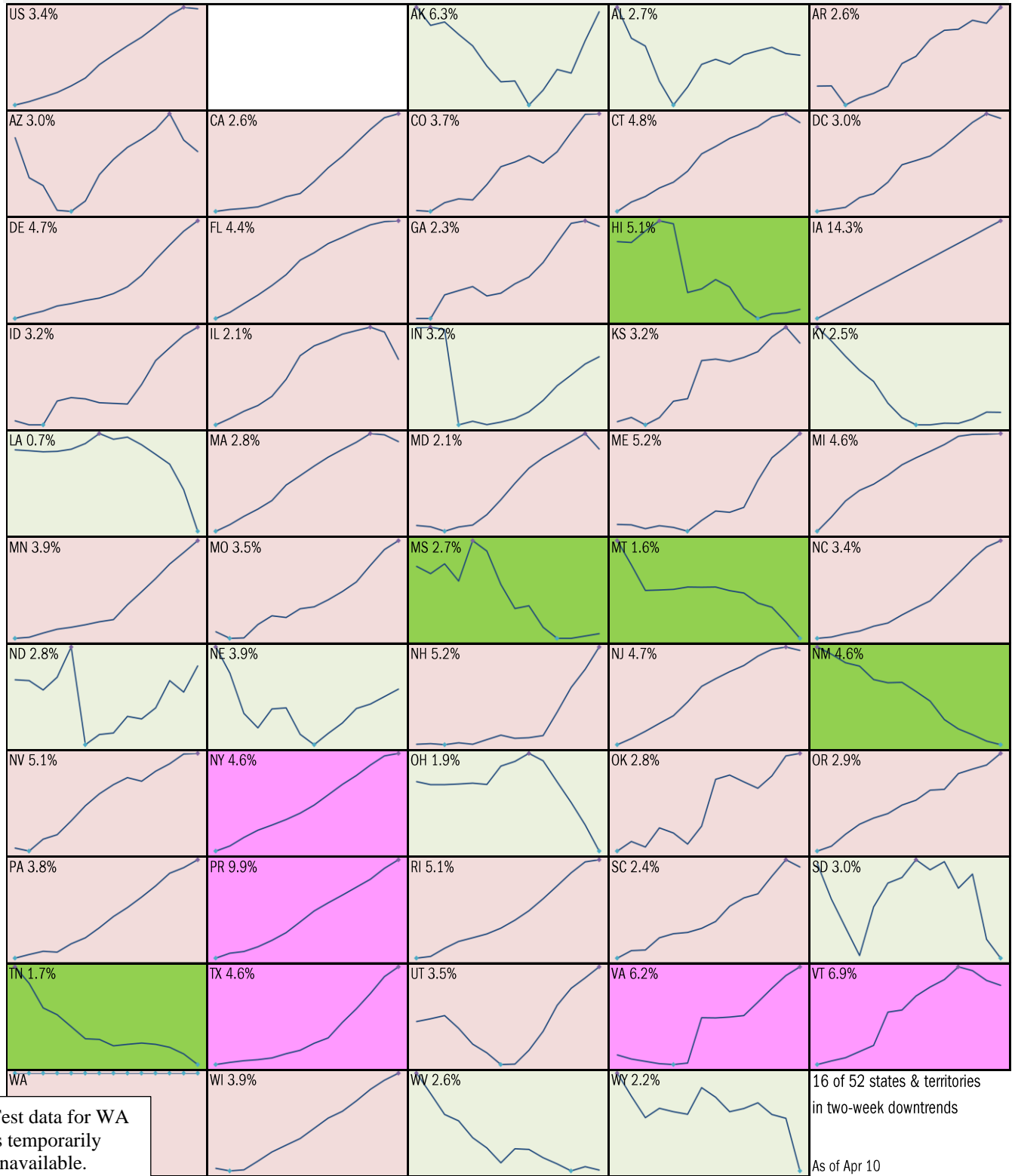


Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

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

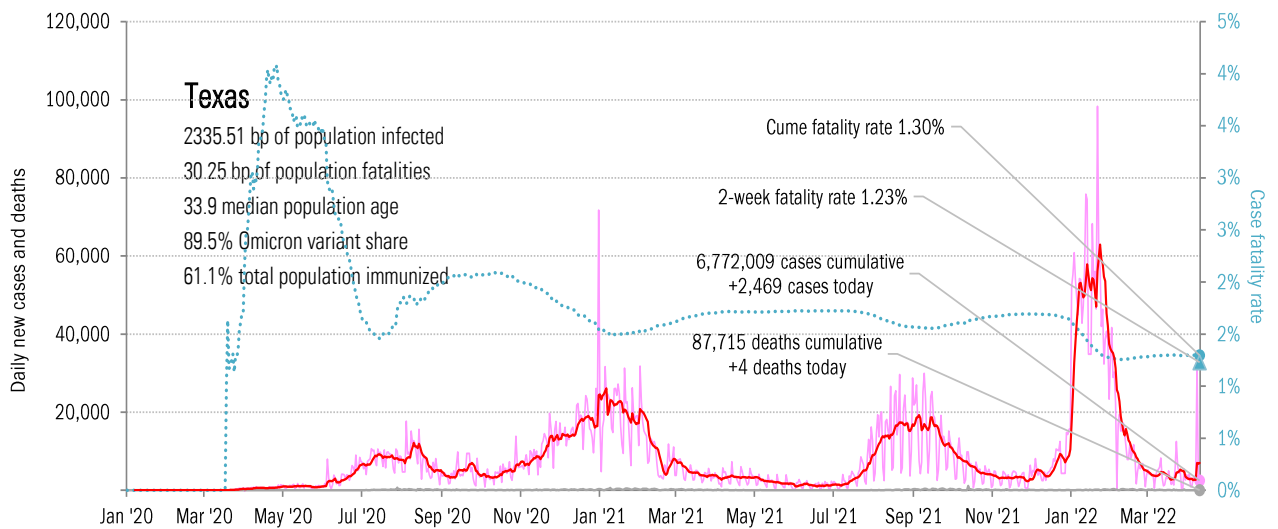
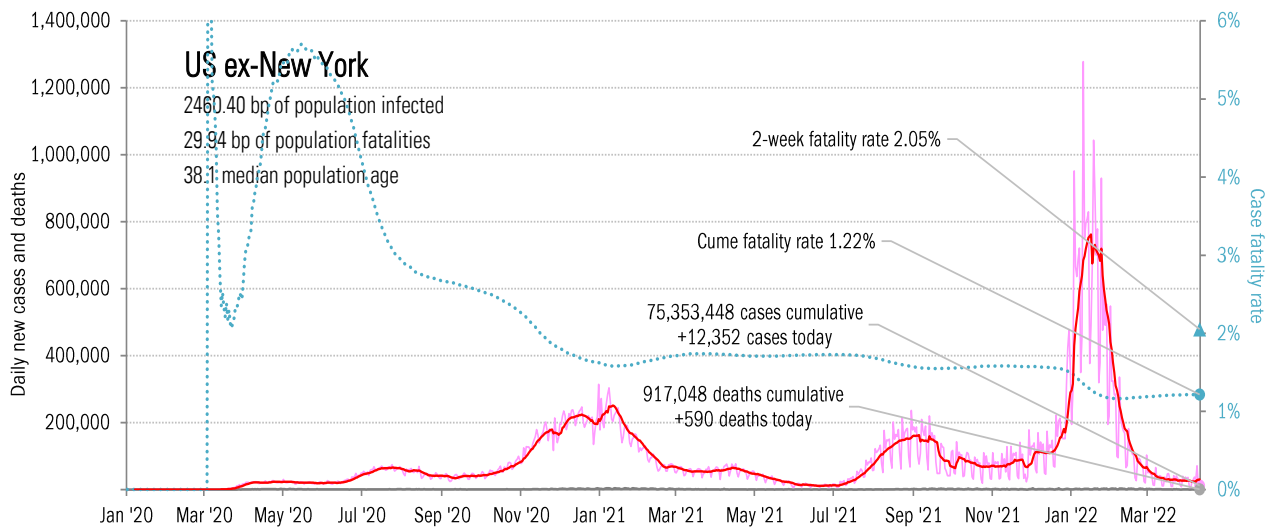
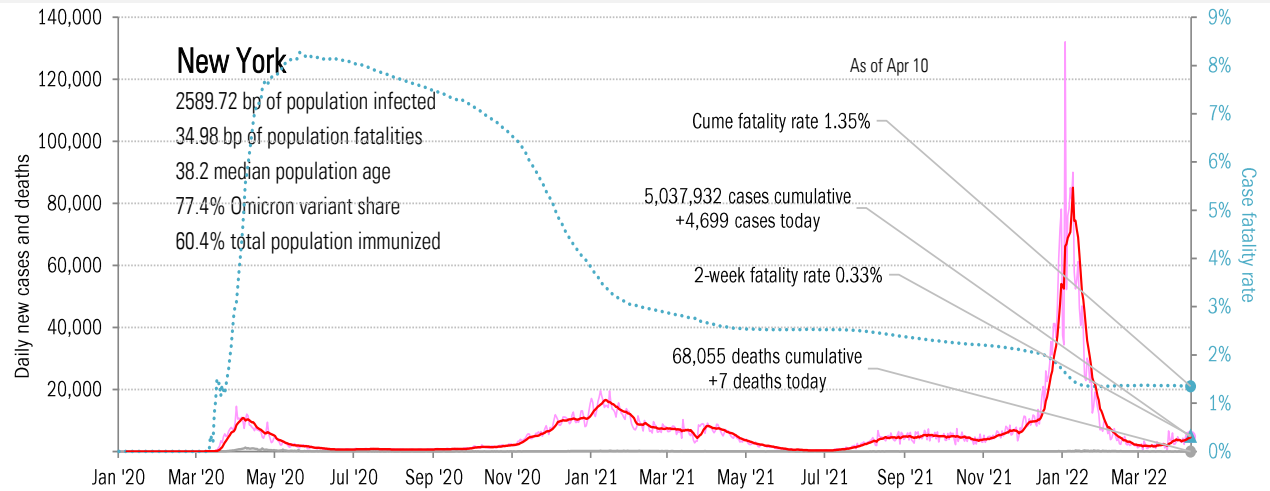


16 of 52 states & territories in two-week downtrends
As of Apr 10

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

From Ground Zero to the Rio Grande

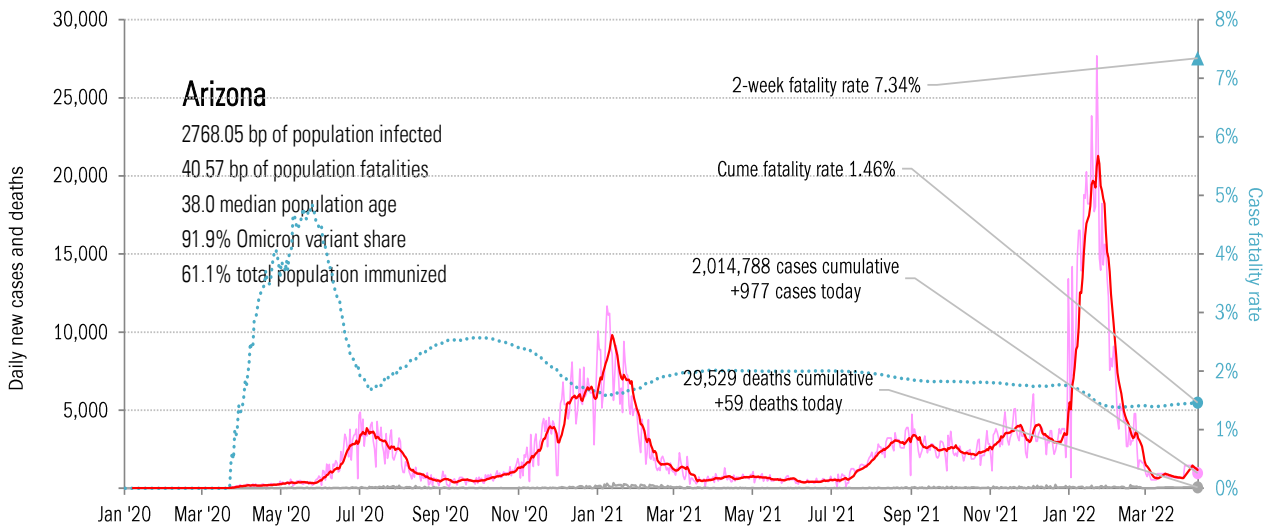
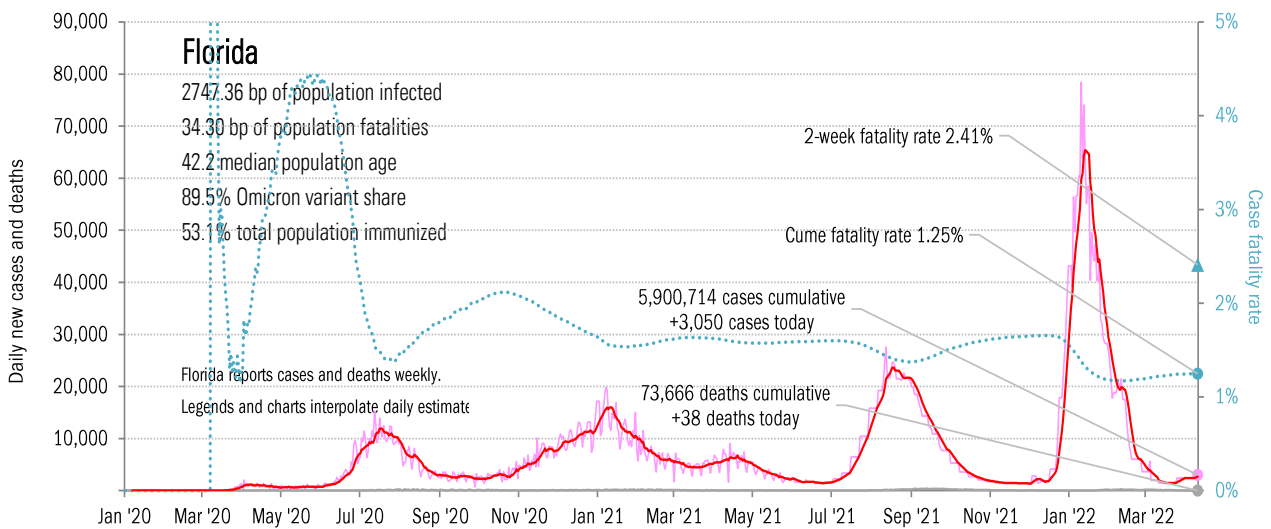
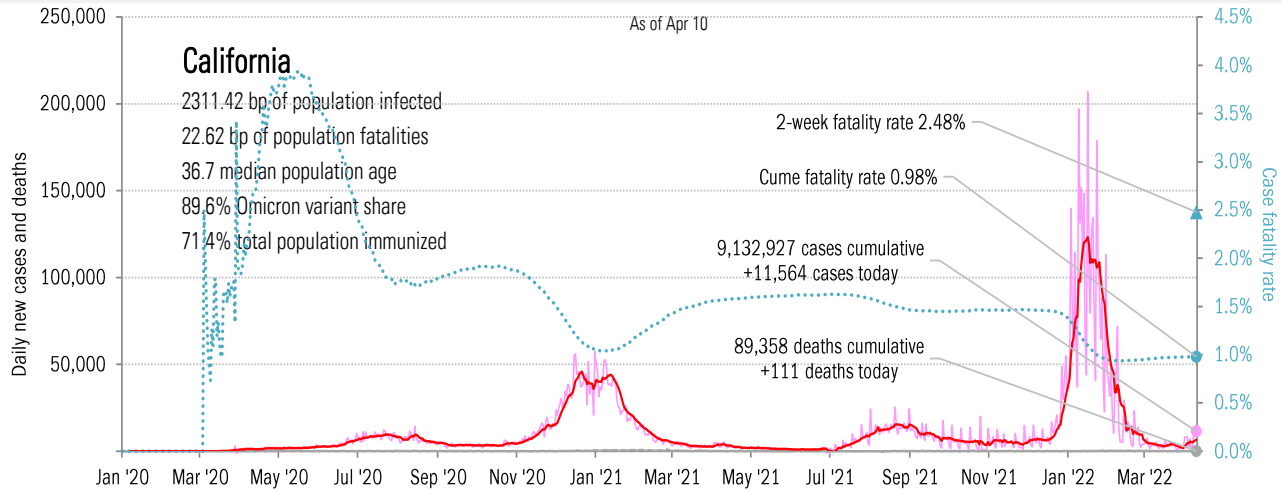
Cases: 7-day average and daily Deaths: Daily



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

The sun-belt hot-spot states

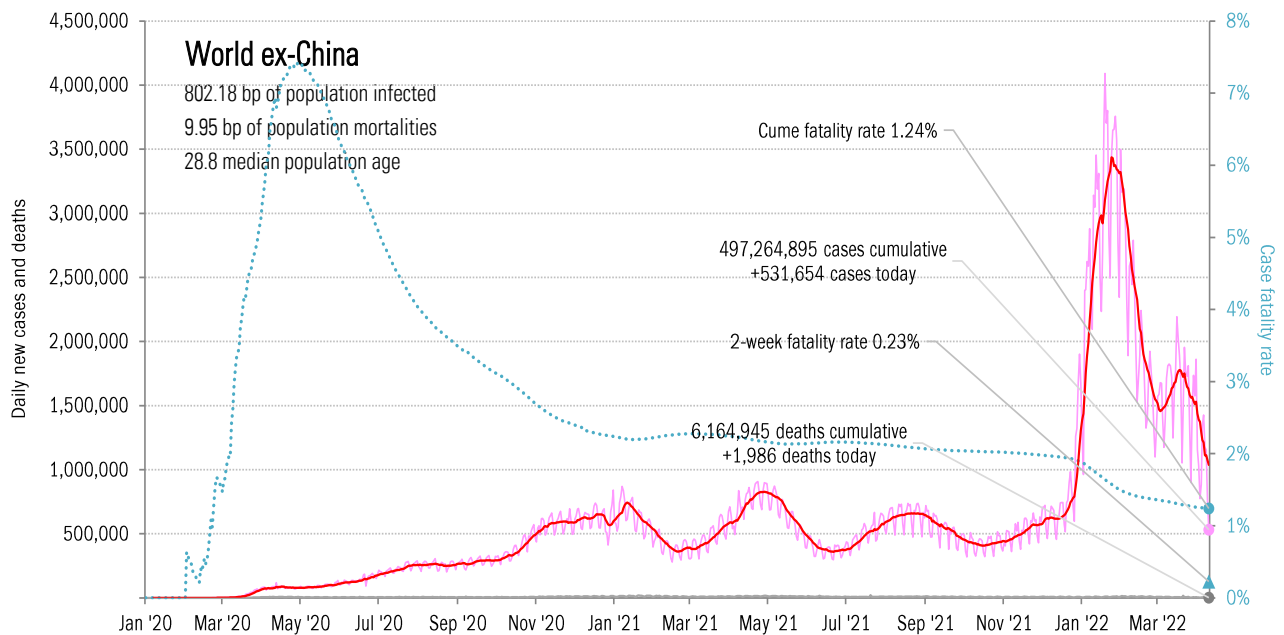
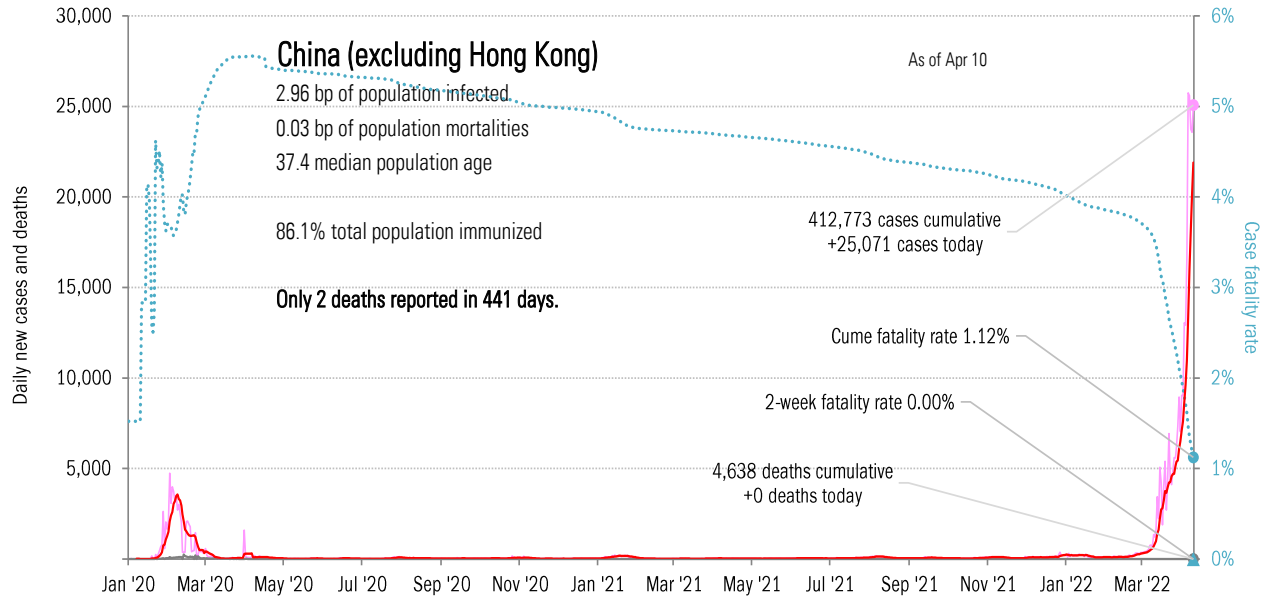
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

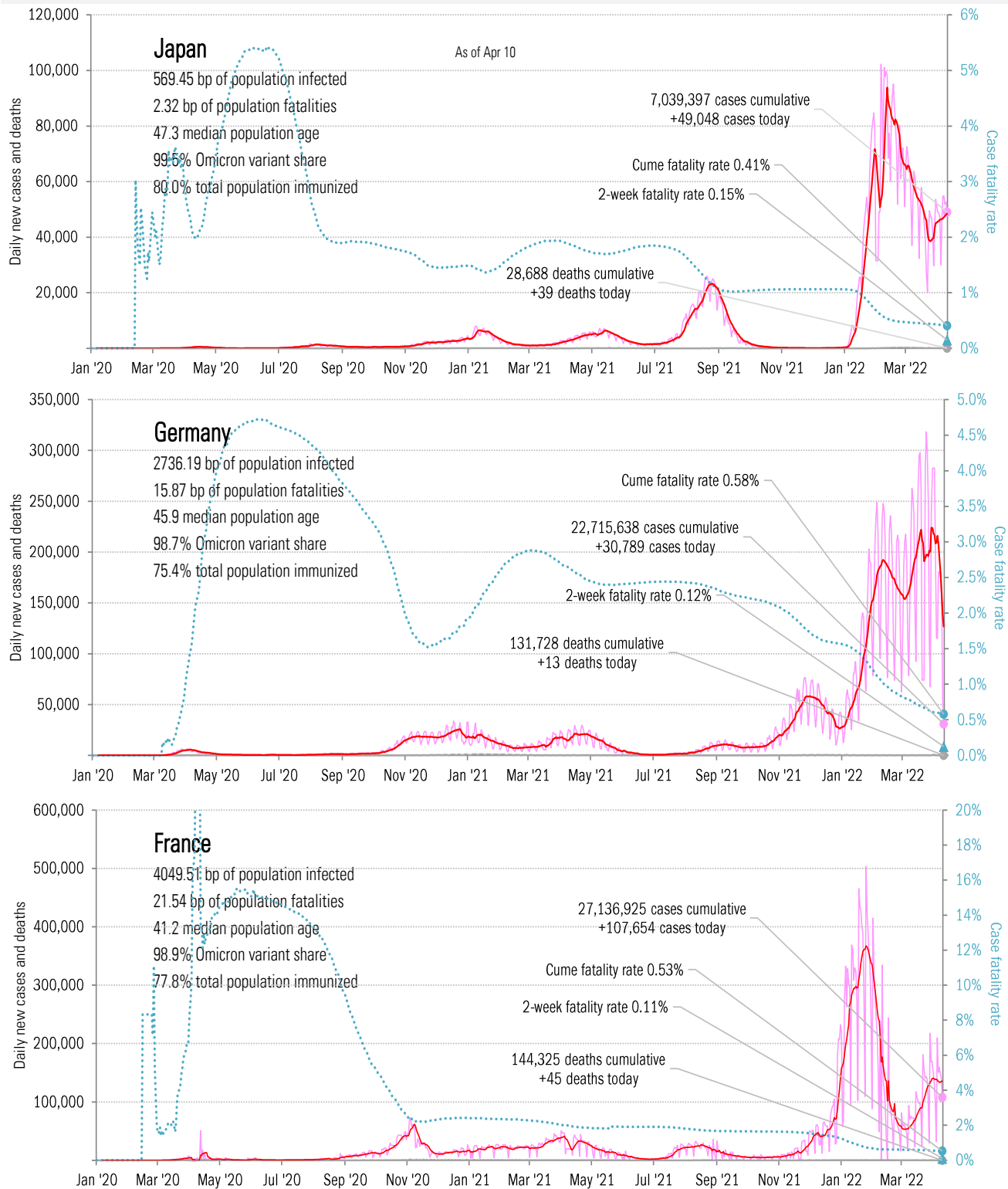
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

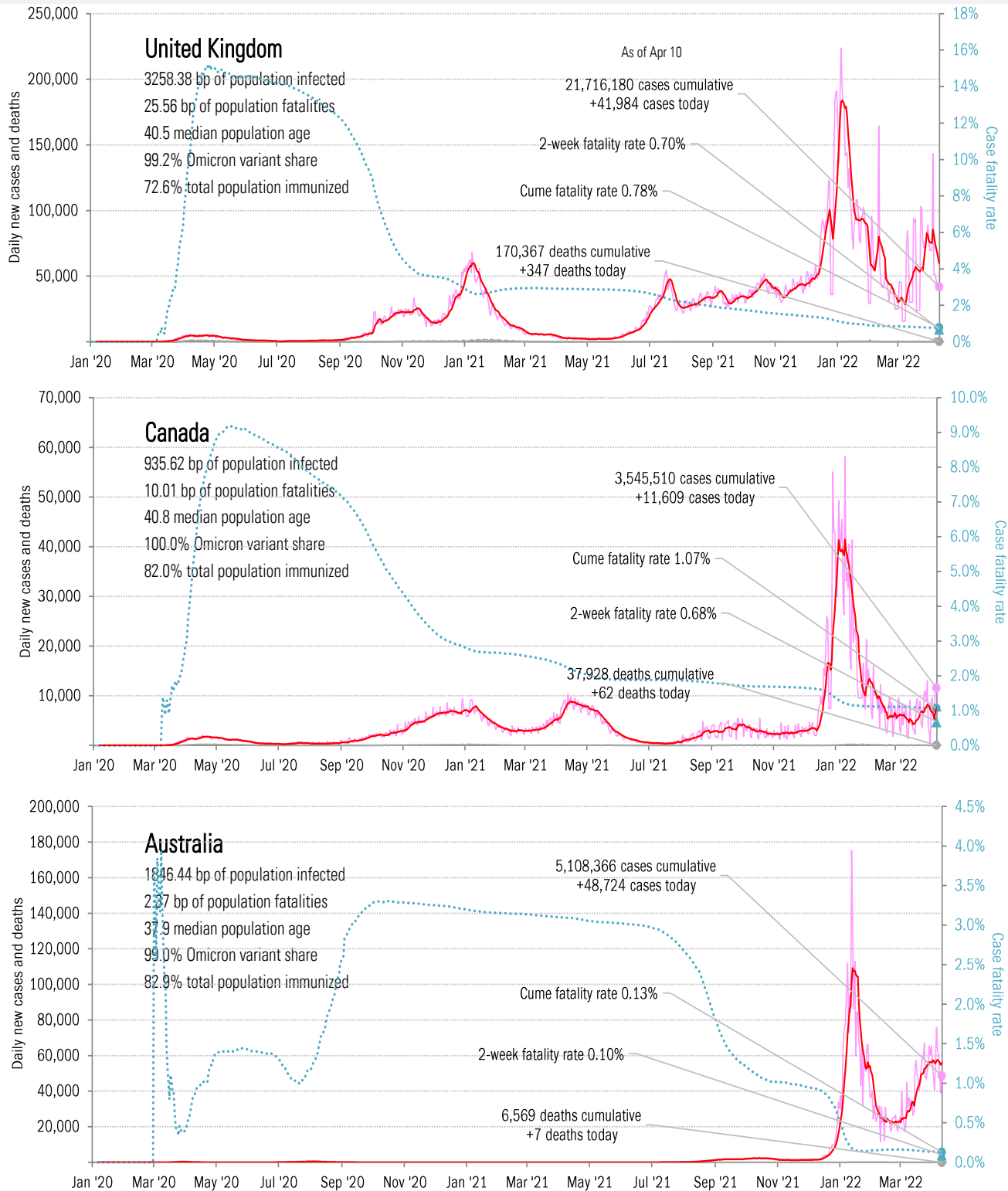
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

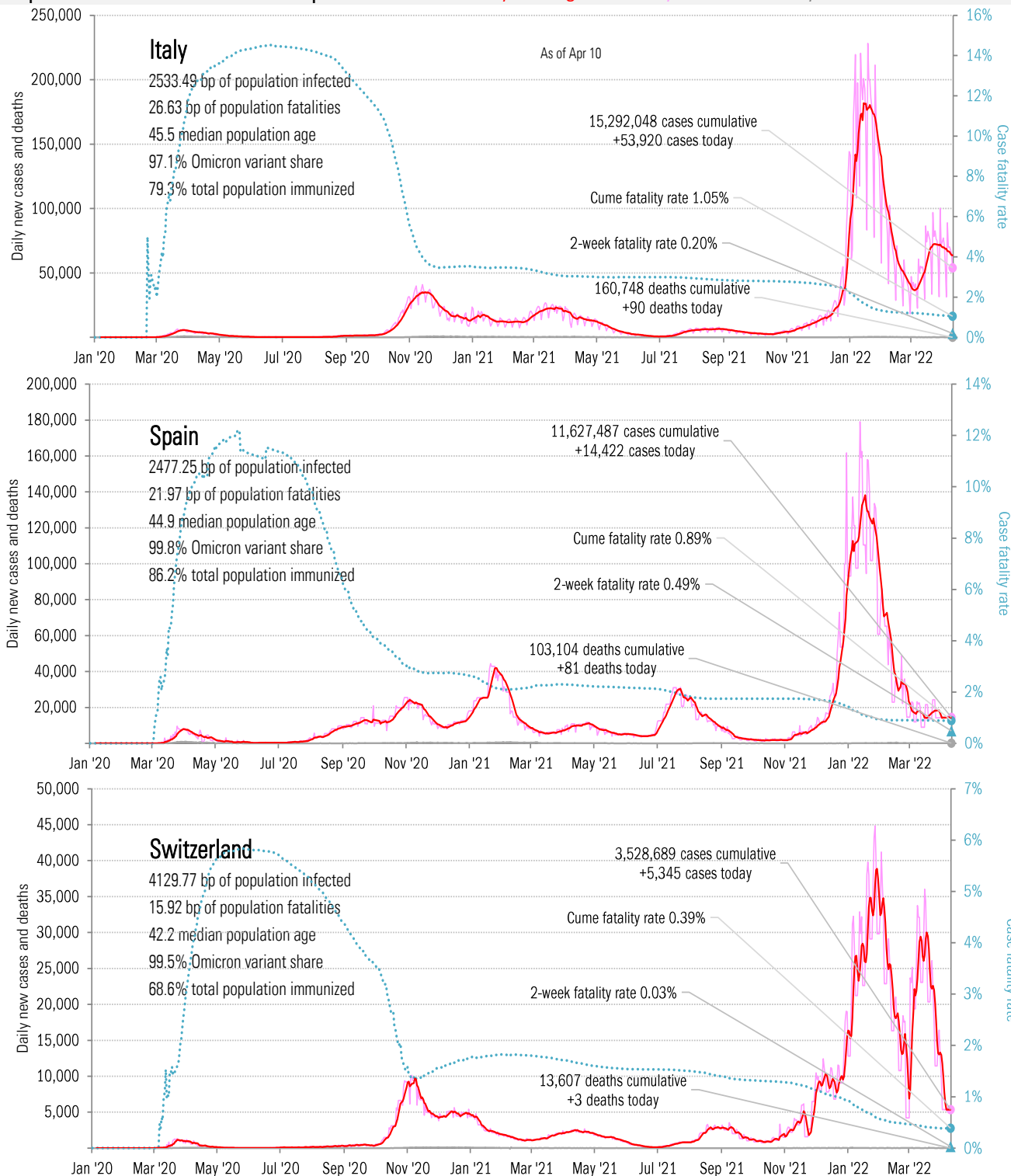
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

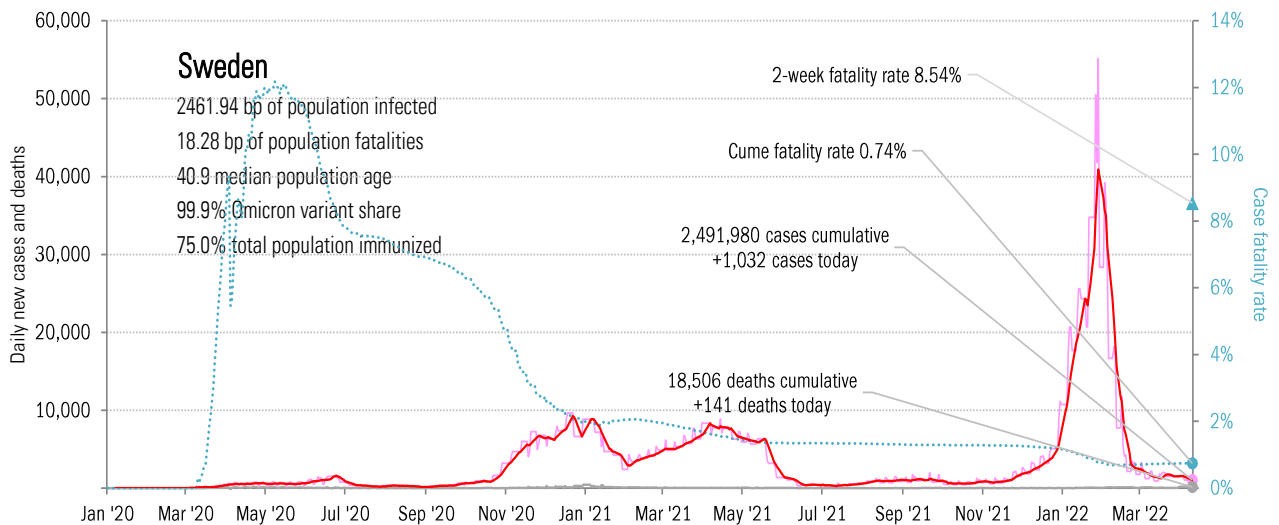
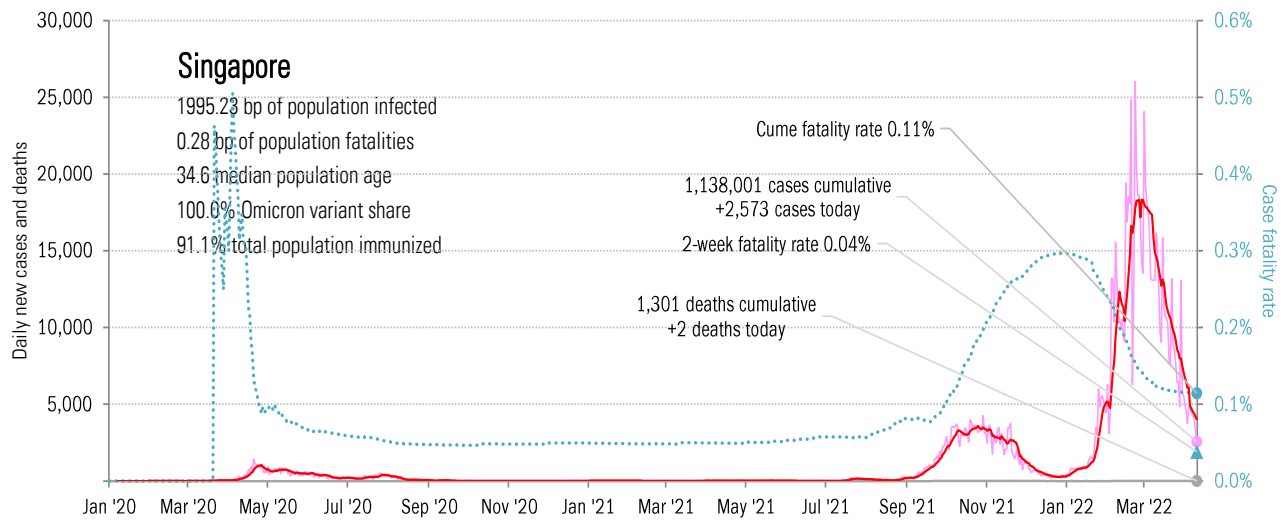
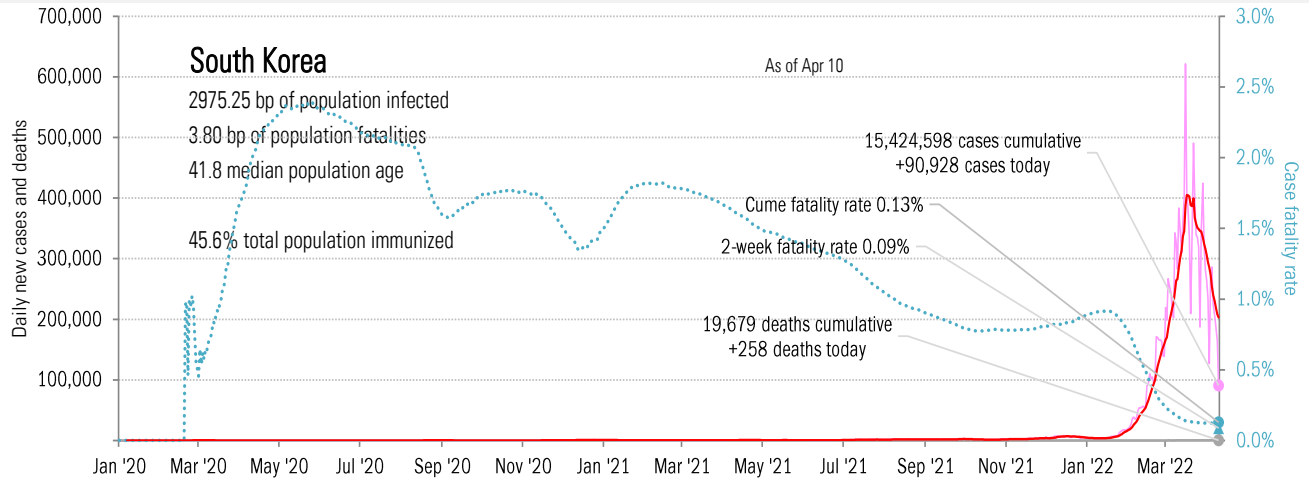
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

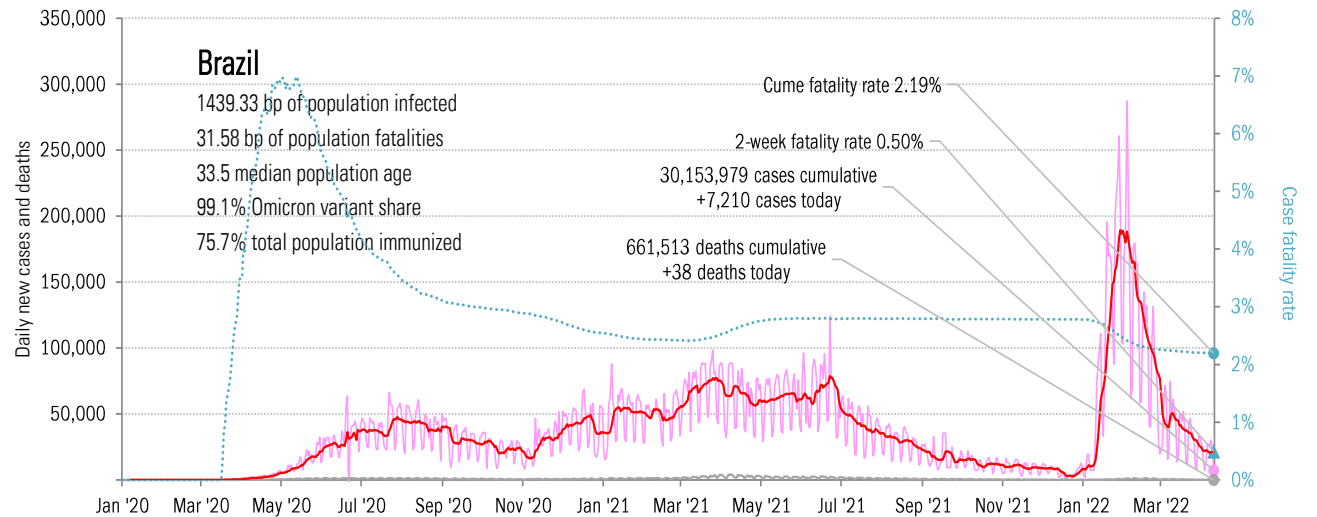
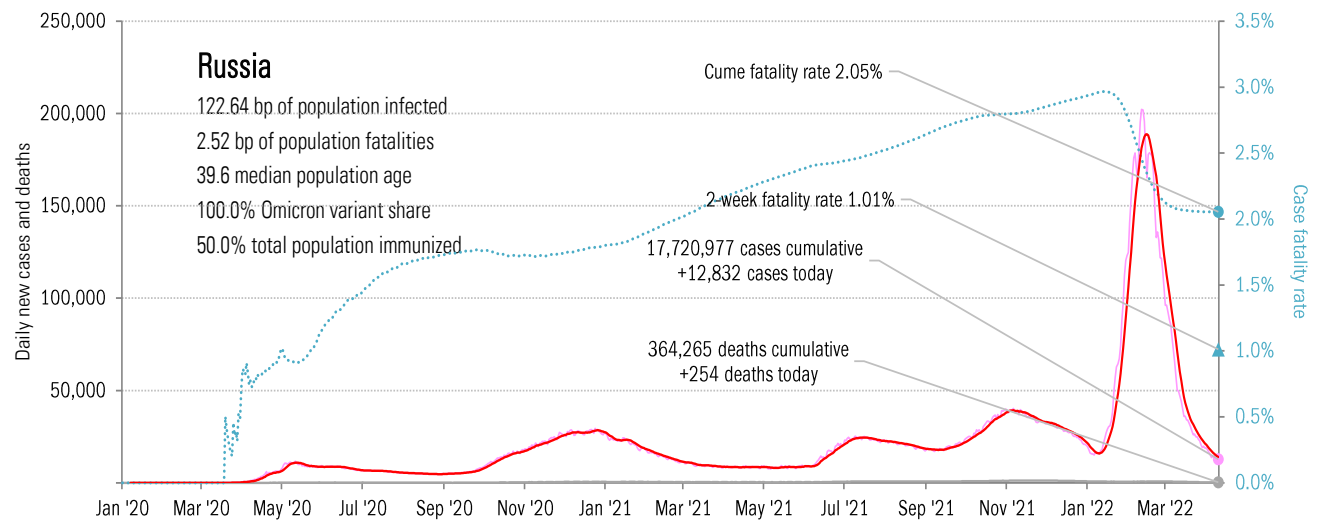
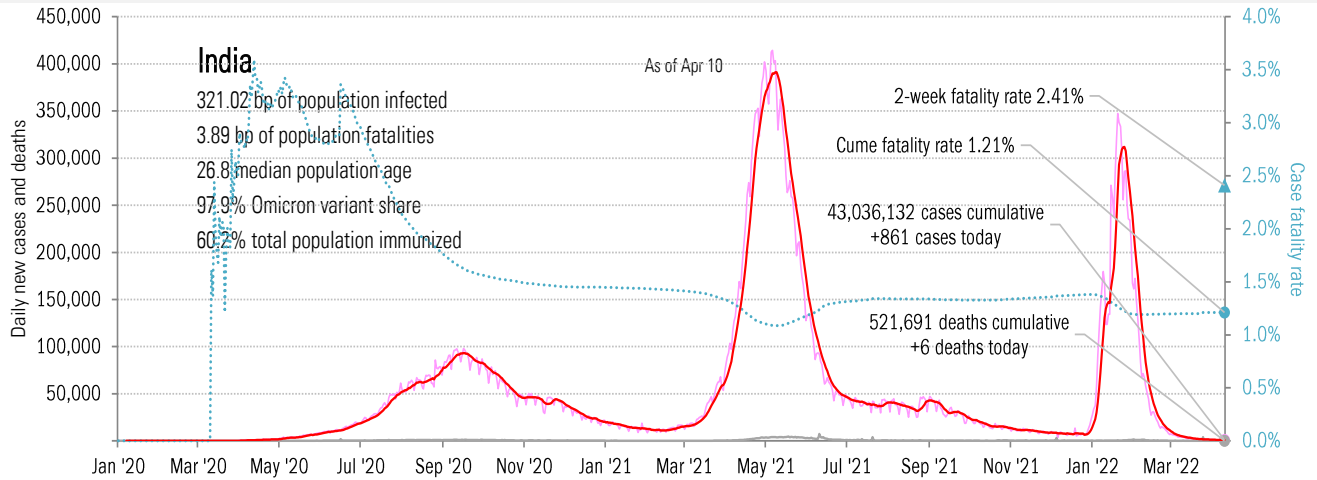
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

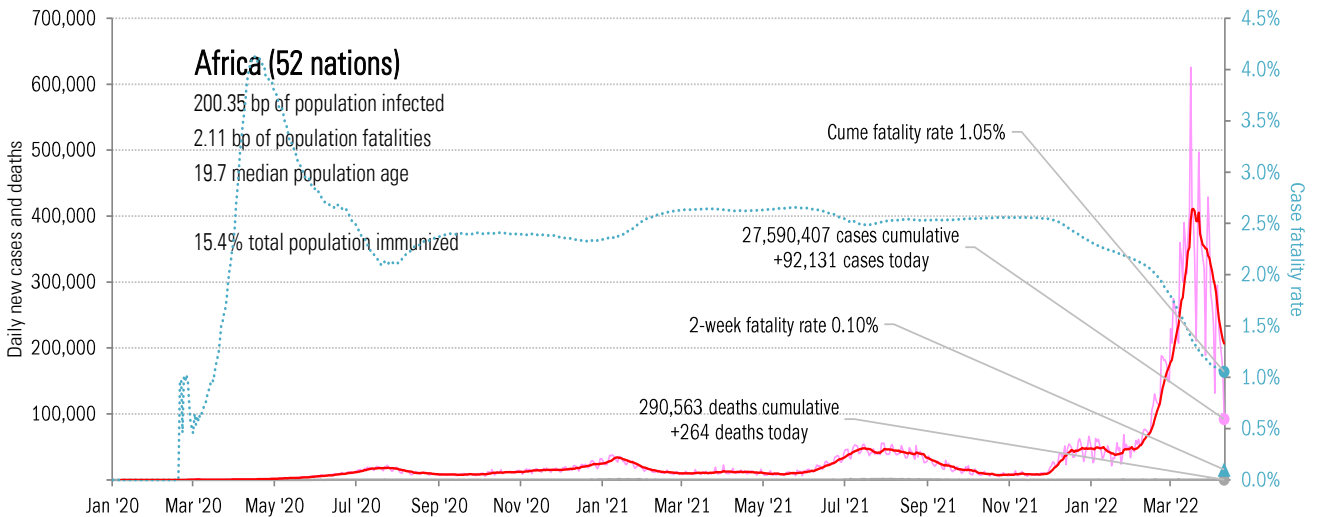
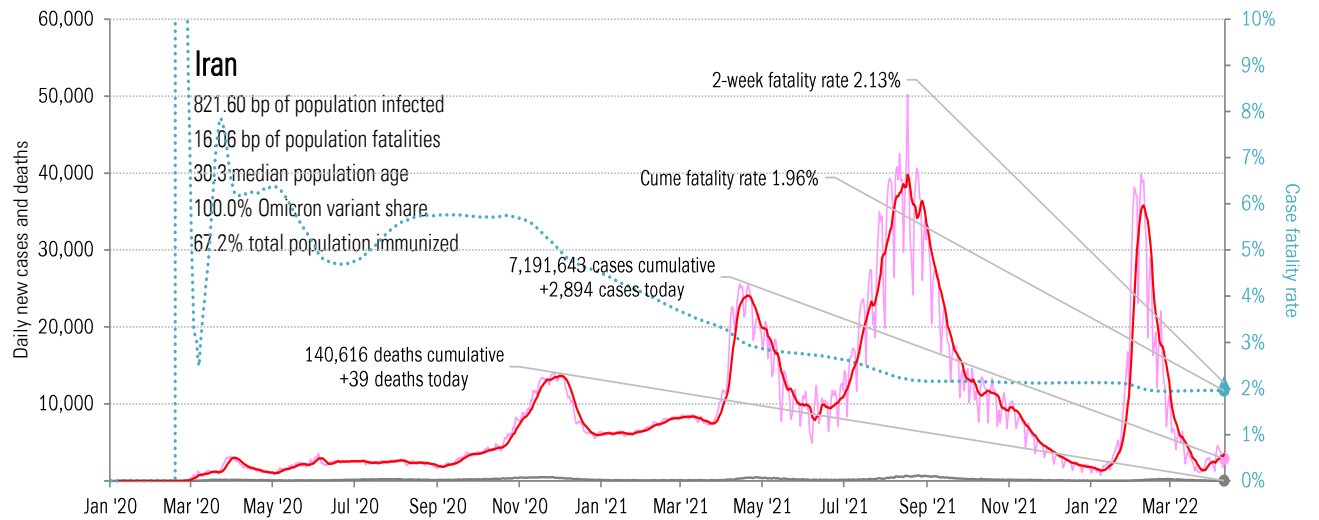
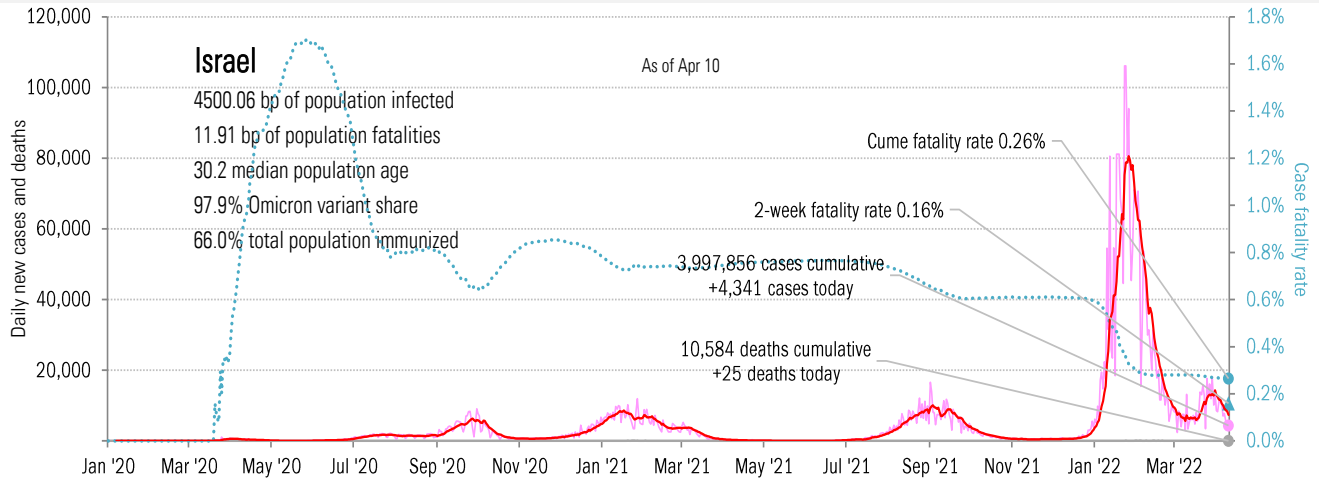
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

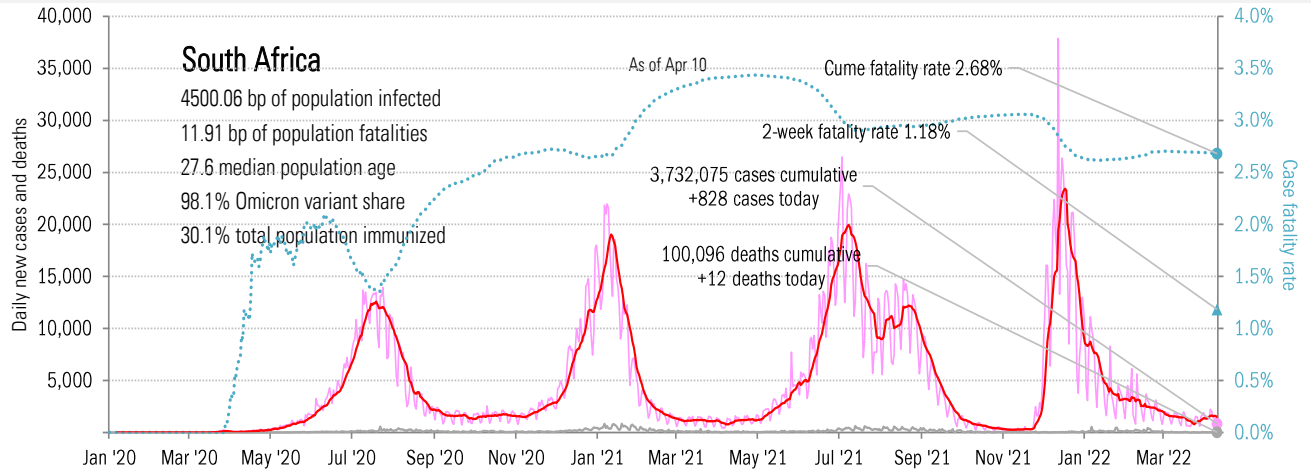
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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