

## Data Insights: Covid-2019 Monitor

Thursday, December 22, 2022

### The global scorecard

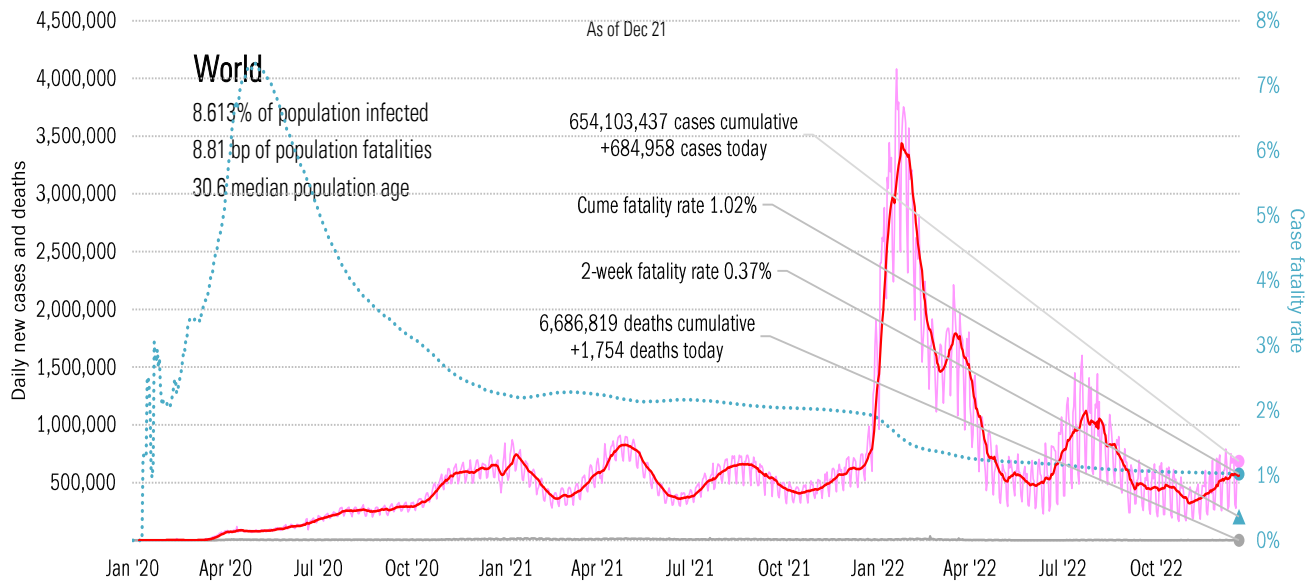
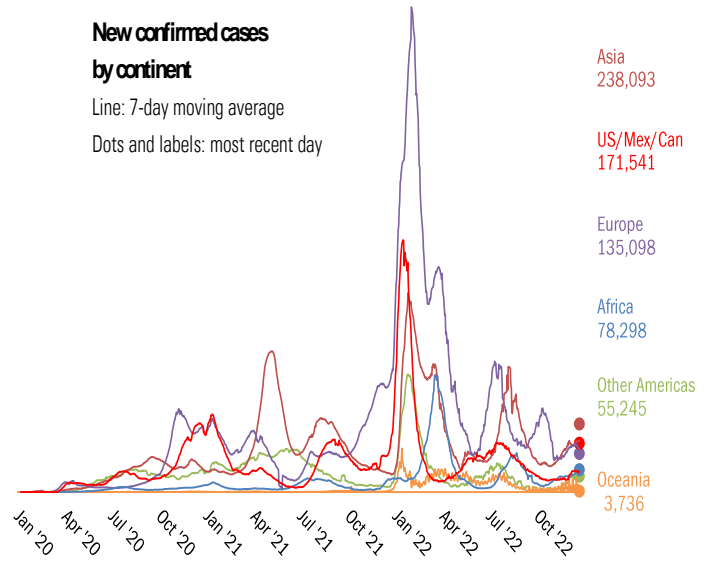
Cases: **7-day average** and **daily** Deaths: Daily

#### The worst ten countries

New cases		New Deaths	
Japan	206,943	United States	362
Korea, South	75,744	Japan	296
United States	70,270	Brazil	181
France	54,852	Germany	178
Germany	47,988	France	127
Brazil	42,681	Italy	103
Italy	24,947	Korea, South	62
Taiwan*	19,141	Canada	59
Russia	7,403	Hungary	59
Austria	6,029	Russia	59
<b>555,998</b>		<b>1,486</b>	
World	684,958	World	1,754
Top ten	81%	Top ten	85%

#### New confirmed cases by continent

Line: 7-day moving average  
 Dots and labels: most recent day



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

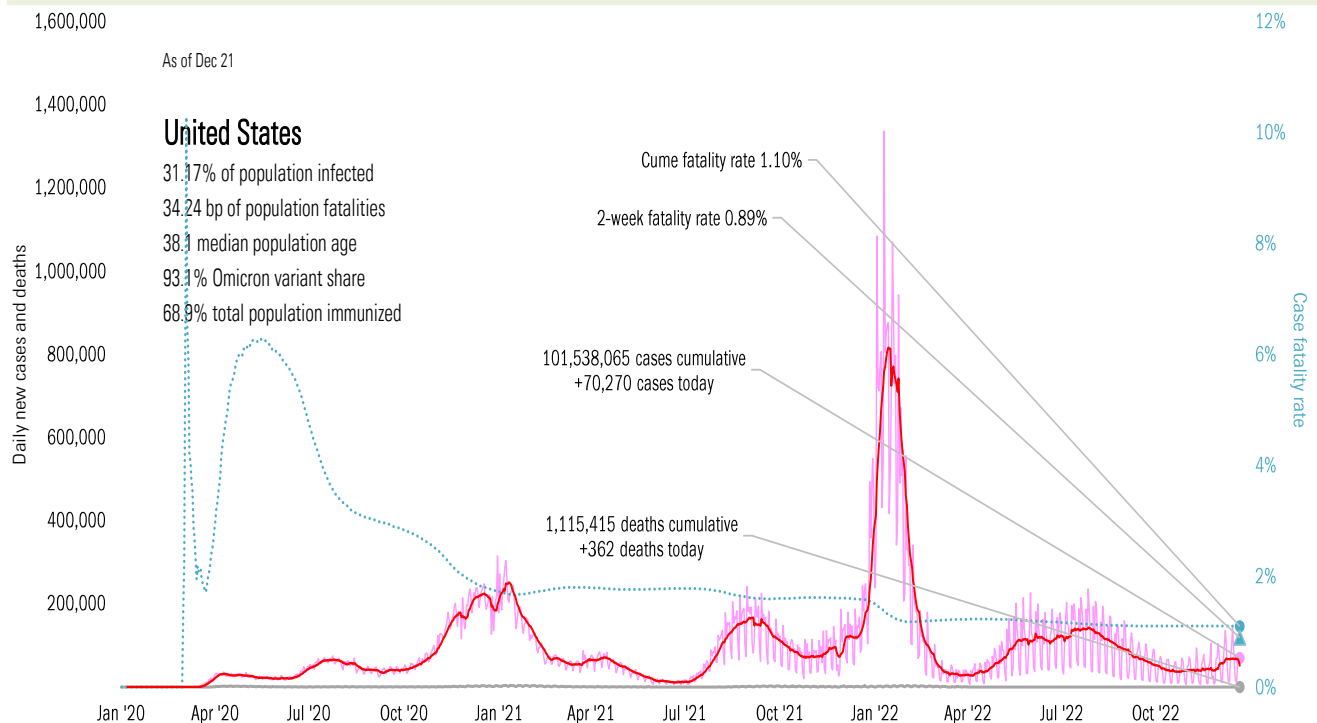
## The ten worst US states

New cases			New deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use			
FL	6,079		FL	58		LA	62		CA	11,701,847		CA	98,165		TX	563,905		GA	114%		VT	88%	
NY	5,897		CA	55		TX	455		TX	8,193,885		TX	91,711		CA	534,859		RI	90%		MA	88%	
IL	5,201		NY	48		CO	85		FL	7,312,963		FL	83,606		FL	510,095		NH	88%		NH	87%	
NJ	4,800		IL	21		WV	44		NY	6,516,559		NY	74,744		NY	330,845		WA	88%		TX	87%	
TX	3,804		PA	19		NC	133		IL	3,946,915		PA	48,798		CH	233,105		MA	87%		RI	86%	
LA	3,634		GA	17		MD	99		PA	3,403,177		GA	41,361		GA	232,771		DE	87%		AL	85%	
VA	2,745		VA	16		WA	60		NC	3,316,814		CH	40,747		PA	218,311		MO	85%		NC	85%	
CH	2,388		MA	16		NM	31		CH	3,276,630		MI	40,657		IL	201,795		WV	84%		MO	84%	
NC	2,382		AZ	16		CT	84		MI	2,977,727		IL	40,564		MI	173,548		MD	84%		NM	83%	
MI	2,046		TX	16		MN	83		GA	2,974,619		NJ	35,387		NJ	151,109		MI	84%		AK	82%	
38,977			281			1,136			53,621,136			595,740			3,150,343								
All states	70,270		362		5,433		All states	101,538,065		1,115,415		5,719,716		All states	70%		67%						
Top ten	55%		78%		21%		Top ten	53%		55%		55%		Median	78%		77%						

Some states not reporting

## Five most improved US states

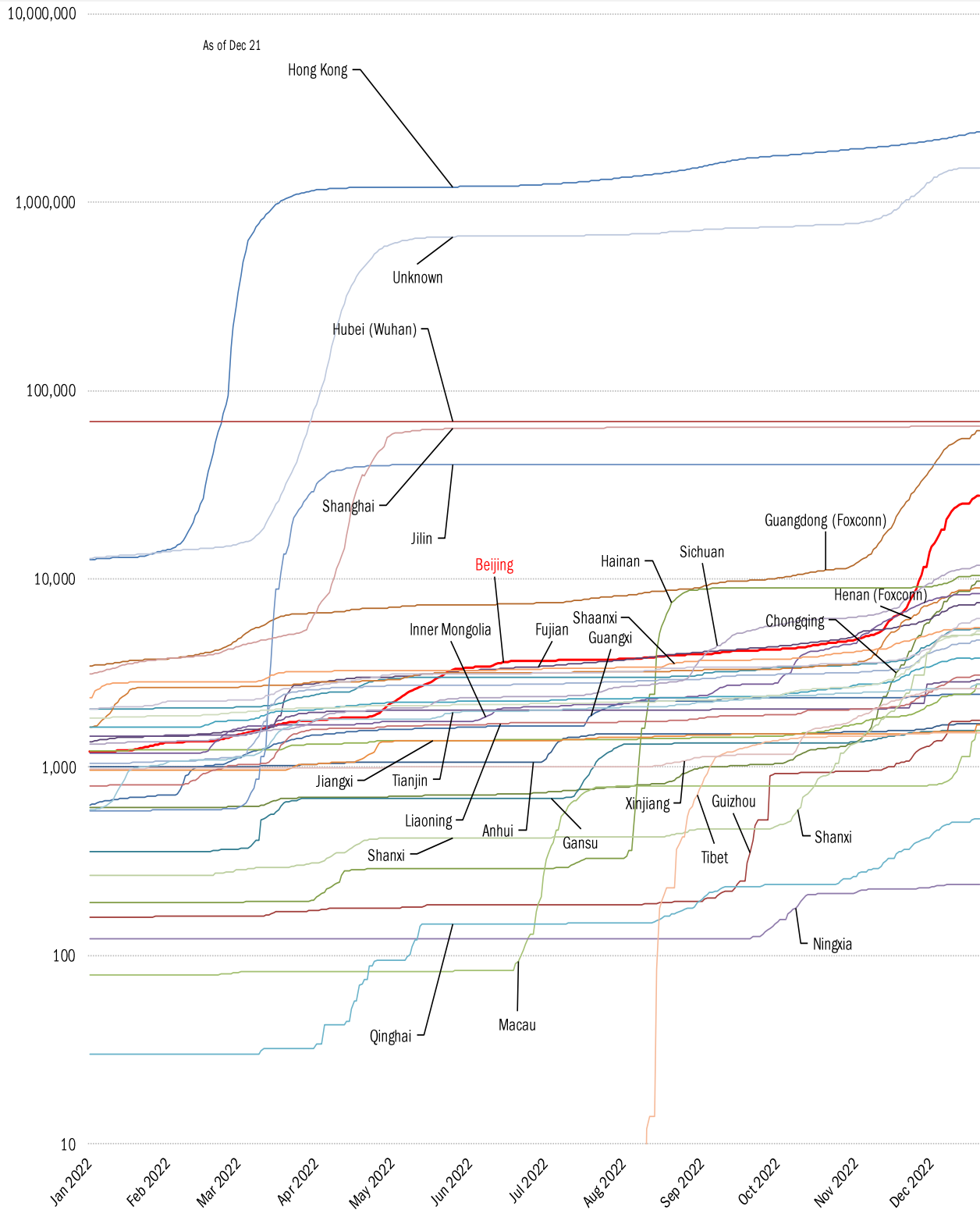
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
CA	-2,712	CT	-68	NY	-79
CT	-856	MI	-21	CA	-69
MD	-662	NJ	-16	PA	-66
MO	-513	WI	-9	IL	-63
AZ	-467	MO	-5	MA	-54



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

# China provincial coronavirus case accelerometer... tracking the "zero Covid" curves

*Cumulative reported cases this year, log scale: flat line indicates "zero Covid"*

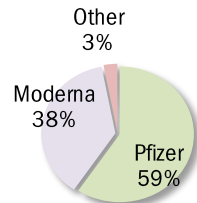


Source: [Johns Hopkins](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative		Today		Immunity	Full	Partial
Doses	676,875,401		+0.181 million		US	68.9%	80.6%
			Of which boosters: +0.156 million		UK	75.2%	79.7%
	One dose	% Pop	Immune	% pop	New immune today	France	78.3%
Total population	276,286,091	83%	235,628,086	71%	+0.017 million	Spain	85.5%
Age 12 to 17	18,389,791	73%	15,747,323	62%	+0.001 million	Germany	76.2%
Age 18 to 64	183,774,685	90%	156,296,409	77%	+0.009 million	Italy	81.3%
Age 65 and over	60,871,211	100%	53,326,820	97%	+0.003 million	Australia	82.7%
						Israel	65.2%
						Canada	82.5%
						Japan	83.1%
						Africa	26.2%
						India	67.1%
						Brazil	80.9%
						China	89.4%



AK	72.7%
	64.9%

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

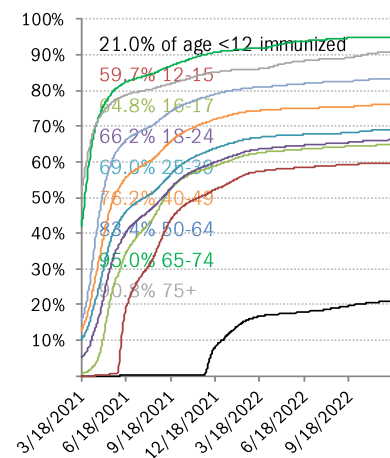
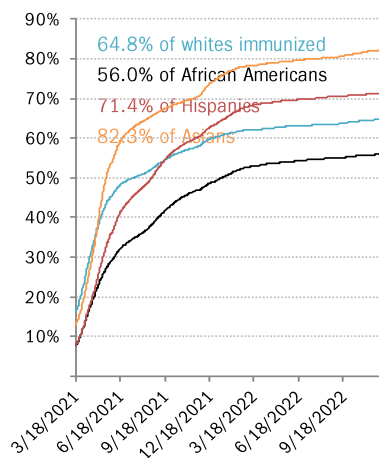
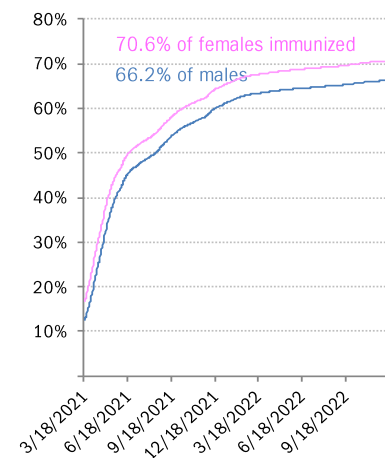
Best
Middle
Worst

"Immunity" = two doses

Global data differs due to sources, timing

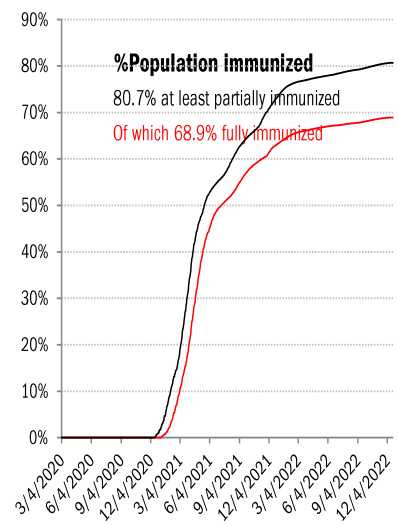
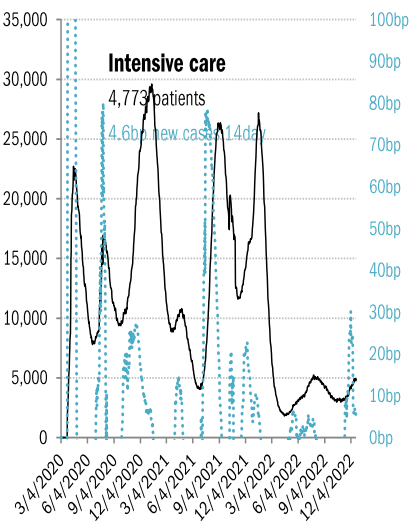
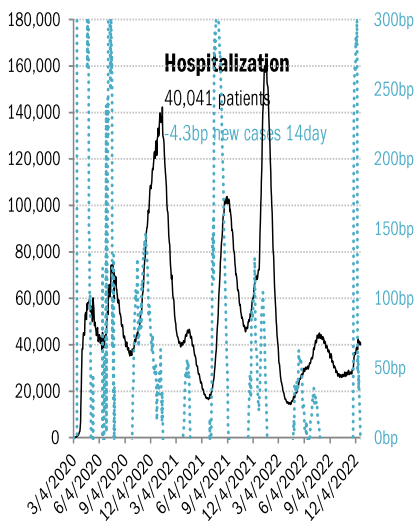
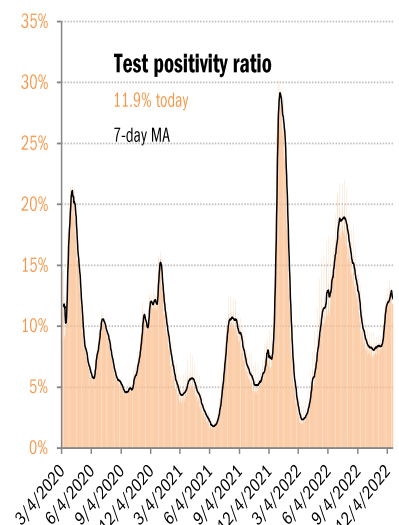
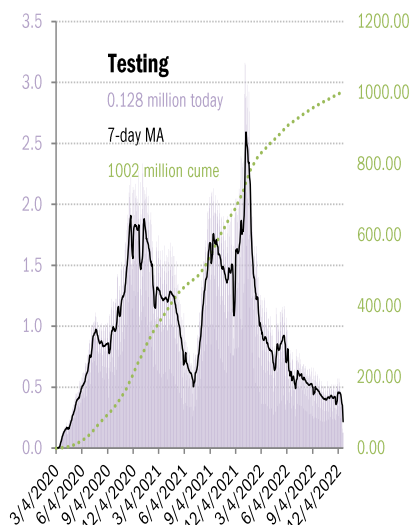
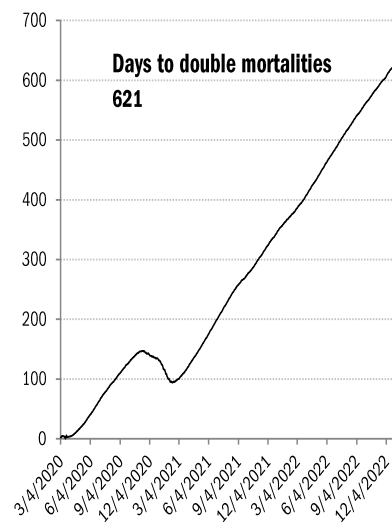
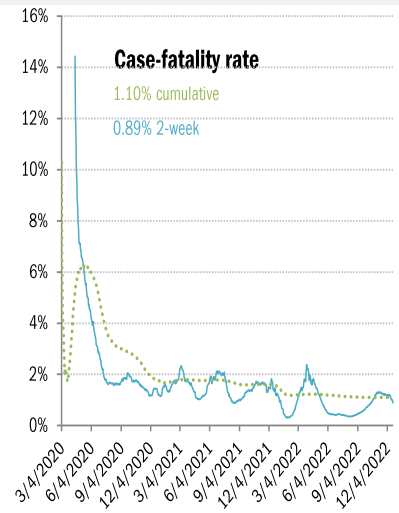
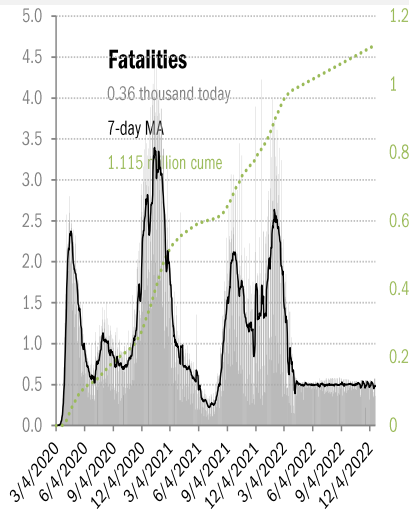
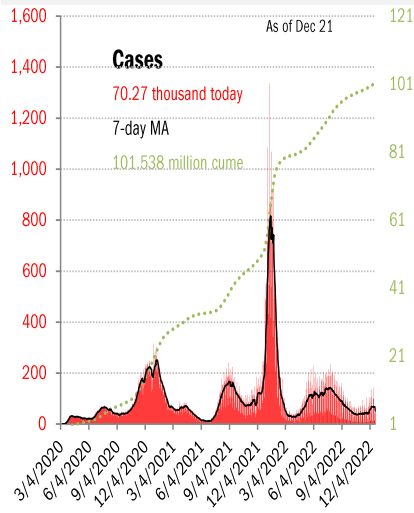
State	At least partial immunity as % population	Full immunity as % population
AK	72.7%	64.9%
WI	74.8%	67.9%
ME	95.0%	82.9%
WA	84.7%	75.6%
ID	63.6%	56.2%
MT	68.0%	58.9%
ND	69.0%	58.3%
MN	78.4%	71.8%
IL	78.8%	71.0%
MI	69.2%	62.1%
OR	81.1%	72.0%
NV	77.1%	63.4%
WY	60.6%	52.8%
SD	83.3%	65.9%
IA	70.3%	64.1%
IN	64.1%	57.5%
OH	65.4%	60.2%
PA	89.9%	72.8%
NJ	93.9%	80.3%
VT	95.0%	85.1%
MA	95.0%	83.7%
CA	84.2%	74.3%
UT	74.9%	66.4%
CO	83.3%	73.2%
NE	73.0%	65.9%
MO	69.0%	58.7%
KY	68.5%	59.3%
WV	67.2%	59.5%
VA	90.3%	76.2%
MD	91.1%	79.2%
CT	95.0%	82.6%
RI	95.0%	87.2%
AZ	76.9%	65.7%
NM	93.6%	74.7%
KS	75.8%	64.9%
AR	69.5%	56.6%
TN	64.2%	56.1%
NC	91.3%	66.6%
SC	70.6%	59.6%
DC	95.0%	85.1%
DE	87.6%	72.9%
OK	74.2%	60.1%
LA	62.6%	54.9%
MS	61.4%	53.5%
AL	64.8%	53.0%
GA	68.0%	57.0%
HI	91.0%	81.2%
TX	75.9%	63.0%
FL	82.0%	69.1%
PR	95.0%	86.7%

## The demographics of US vaccination



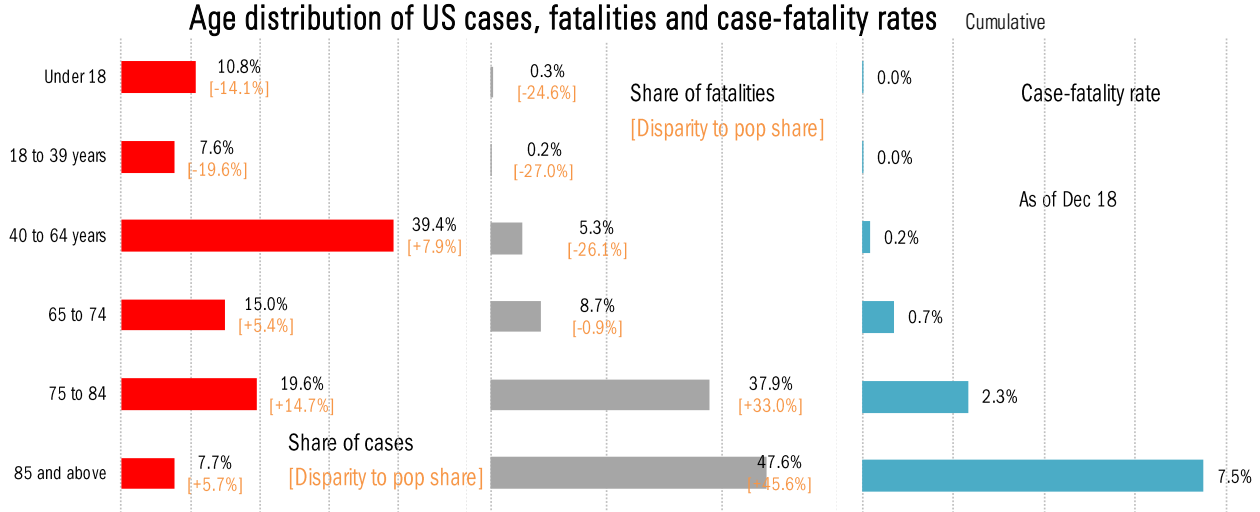
Source: CDC, CDC, Our World in Data, TrendMacro calculations

# US deep-dive

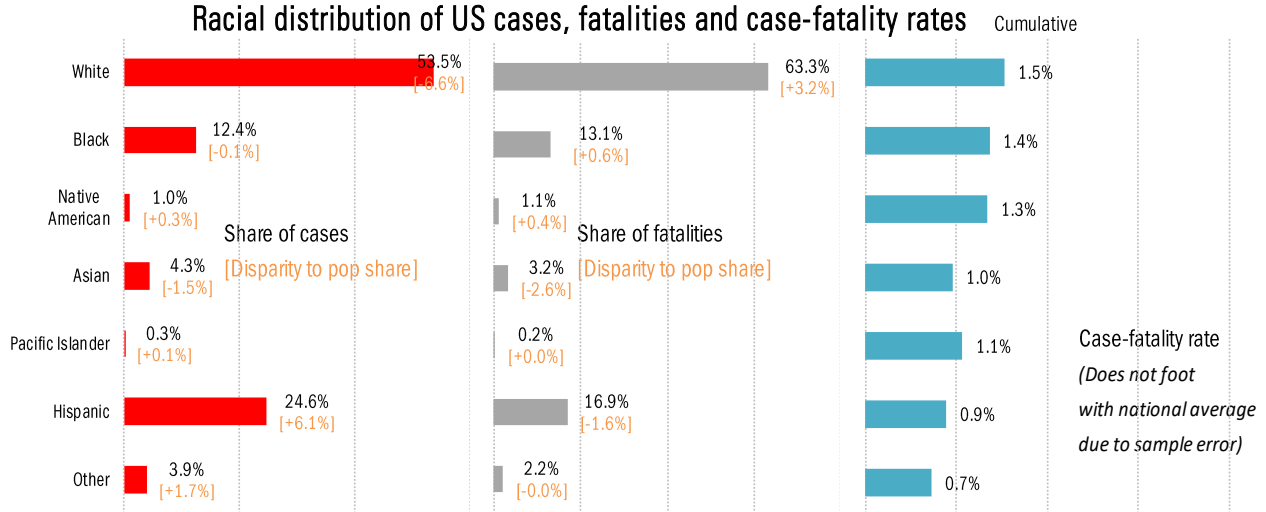


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

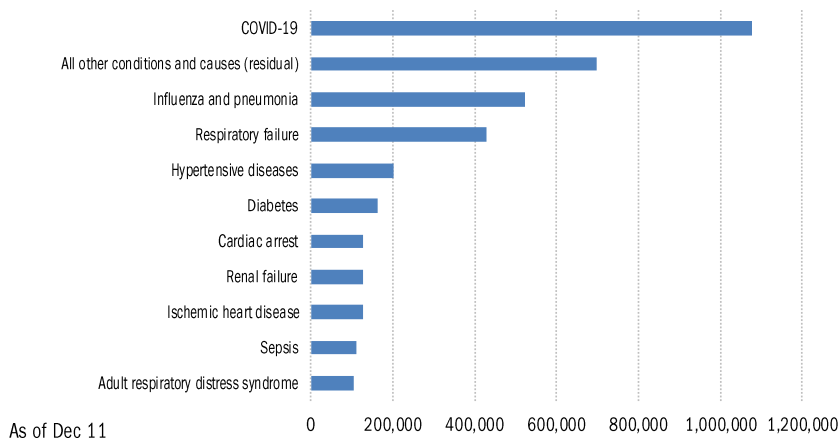


Racial distribution of US cases, fatalities and case-fatality rates



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

[China Is Likely Seeing 1 Million Covid Cases, 5,000 Deaths a Day](#)

*Bloomberg*

December 22, 2022

[China to Cut Quarantine for Overseas Travelers From Next Month](#)

*Bloomberg*

December 22, 2022

[Young Chinese put kids, marriage on back burner at record rate as cost pressures and Covid overwhelm](#)

Ji Siqu

*South China Morning Post*

December 22, 2022

[‘Significant rise’ in suspected UK scarlet fever cases brings total to nearly 30,000](#)

Harry Taylor

*The Guardian*

December 20, 2022

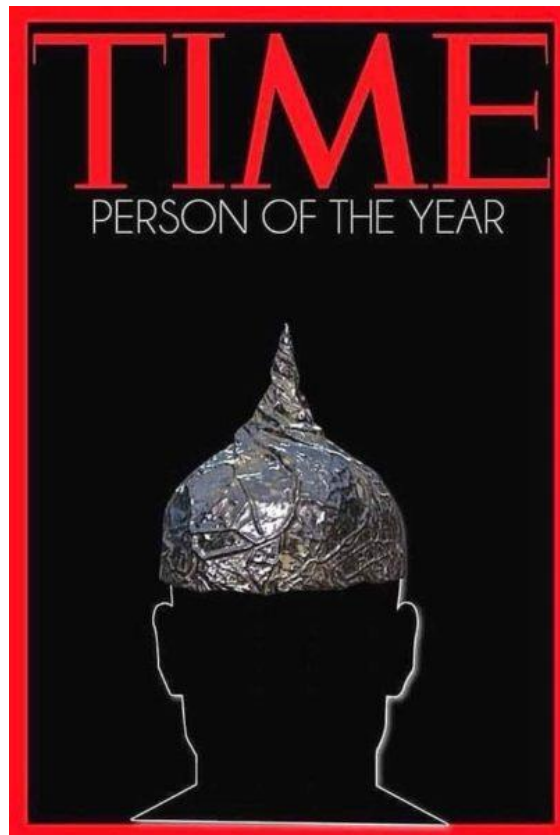
[Undercounted Deaths Cloud China’s Zero-Covid Exit](#)

Liyan Qi and Cao Li

*Wall Street Journal*

December 21, 2022

## Meme of the Day

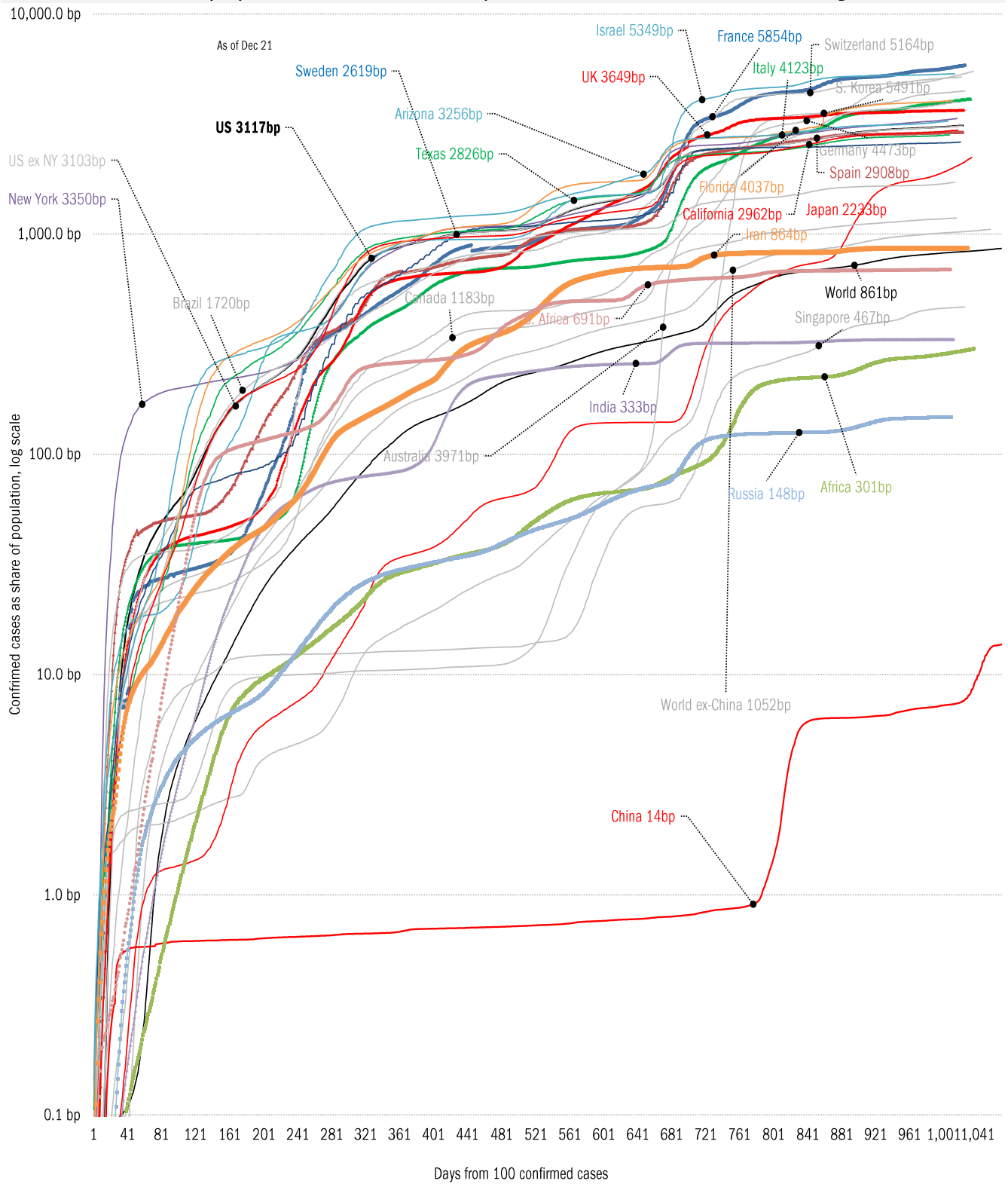


Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)



# The global coronavirus case accelerometer... tracking the world's infection curves

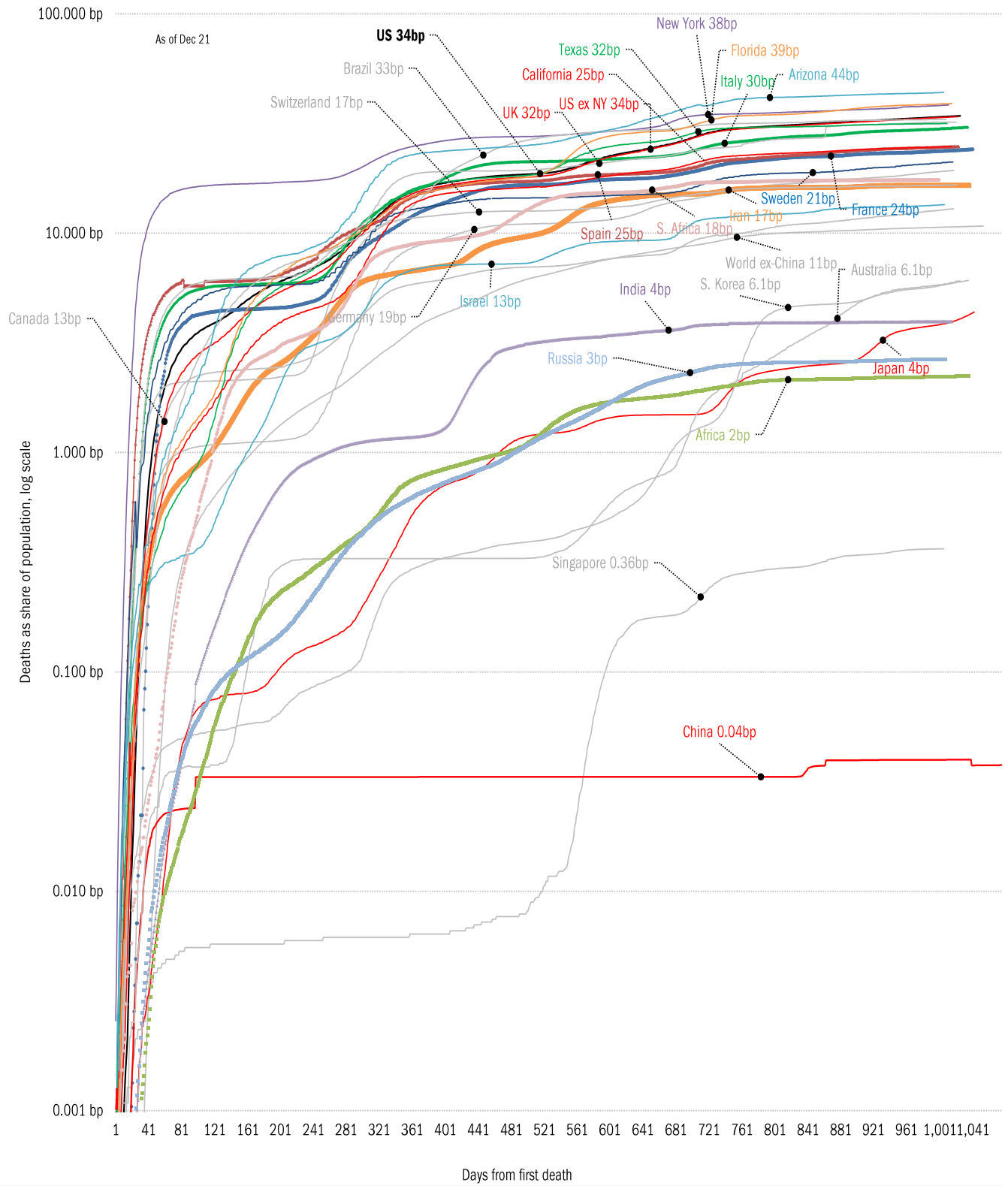
*Share of infected population from first day with 100 confirmed cases, log scale*



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



The global 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

Higher is good Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

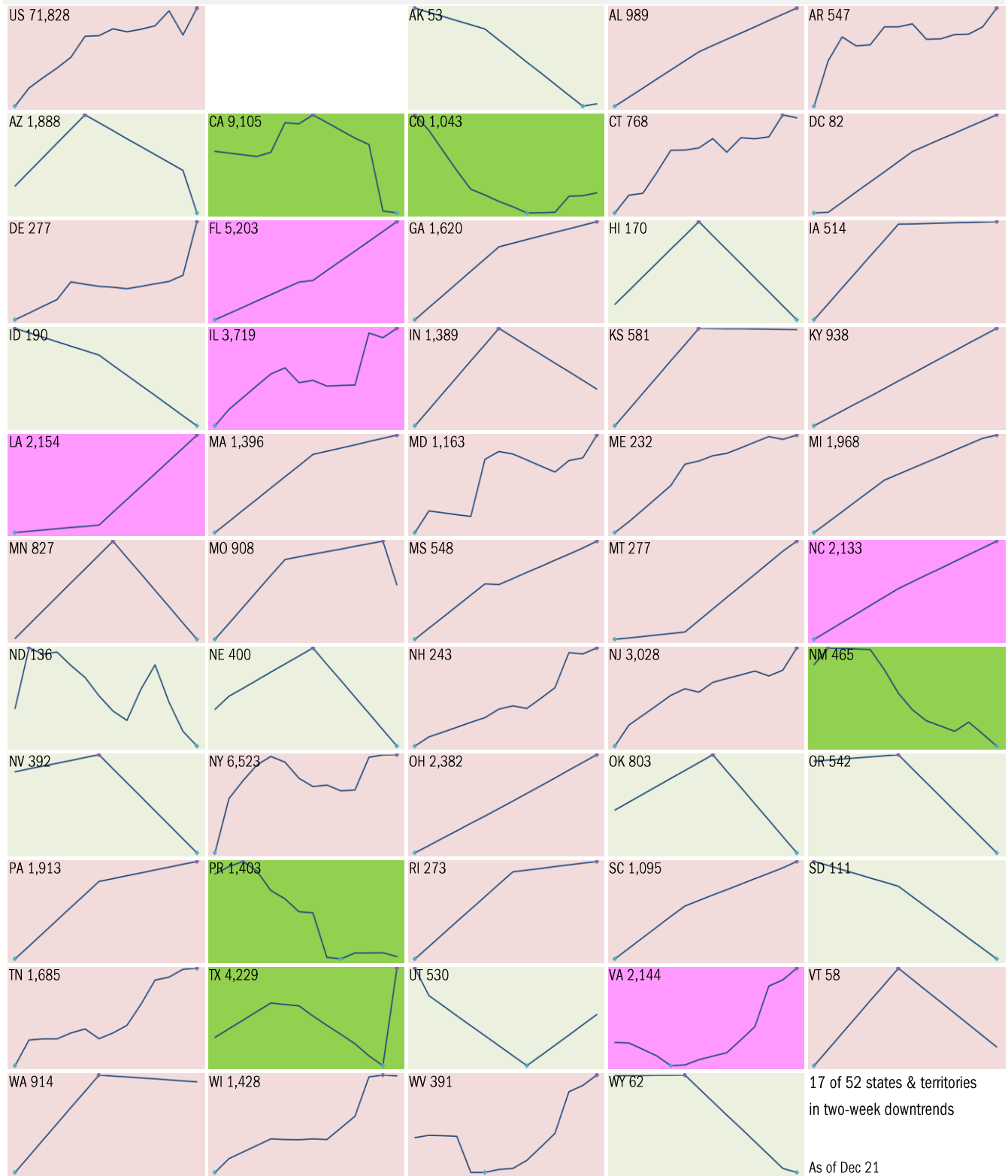


Source: [Johns Hopkins](#), TrendMacro calculations

# 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

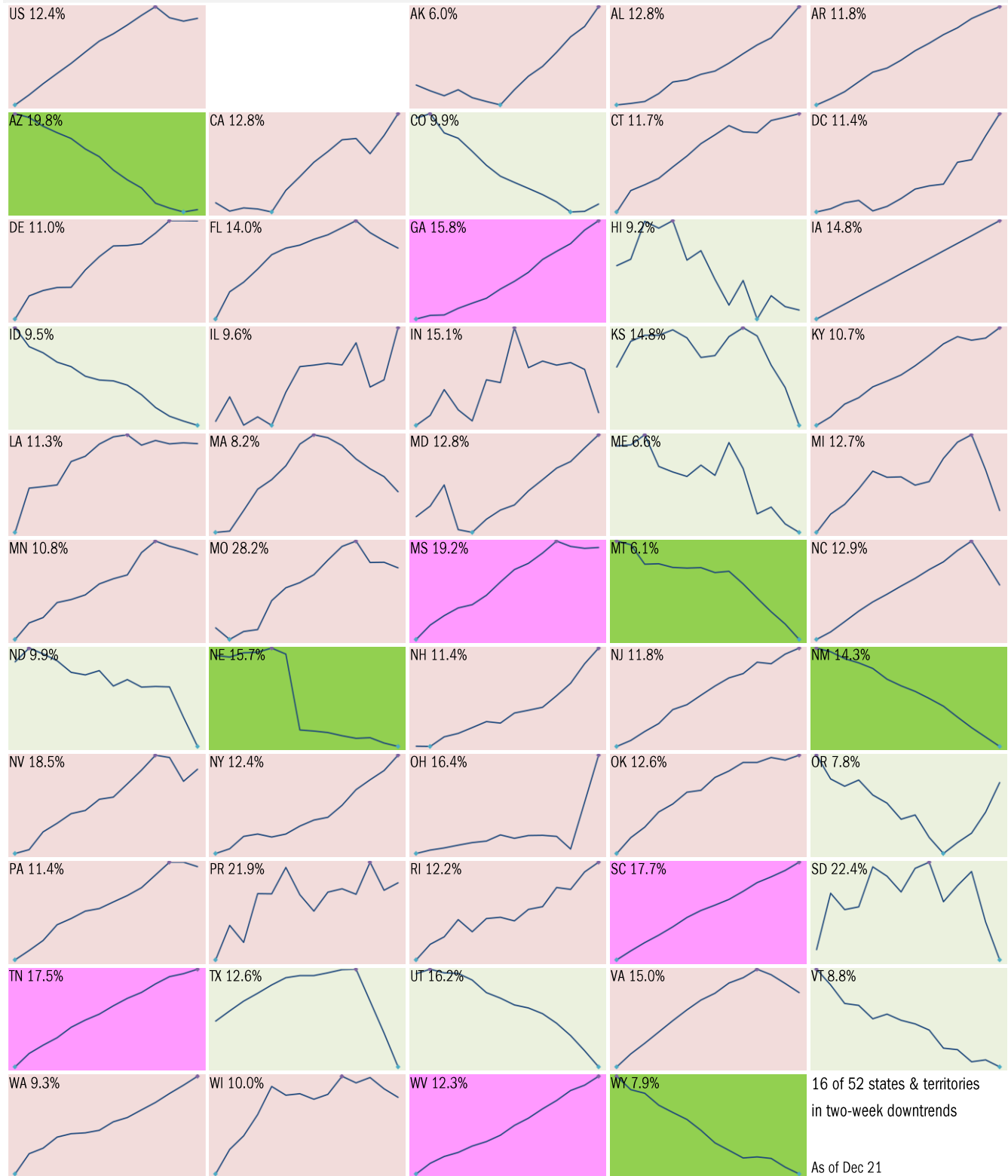


Source: [Johns Hopkins](#), TrendMacro calculations

# 14-day trajectory in test-positivity ratio

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

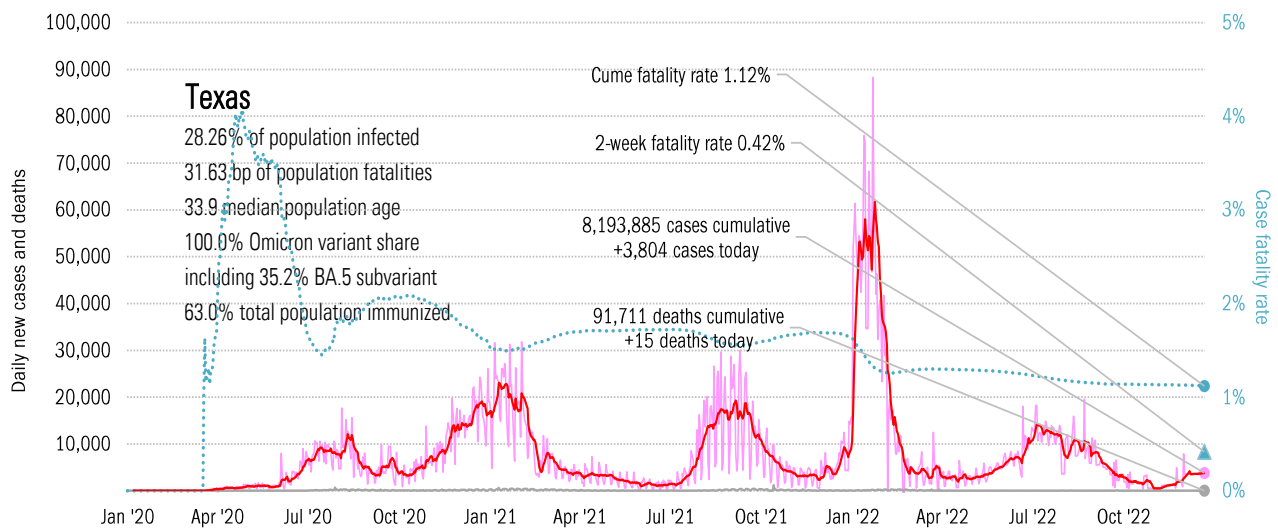
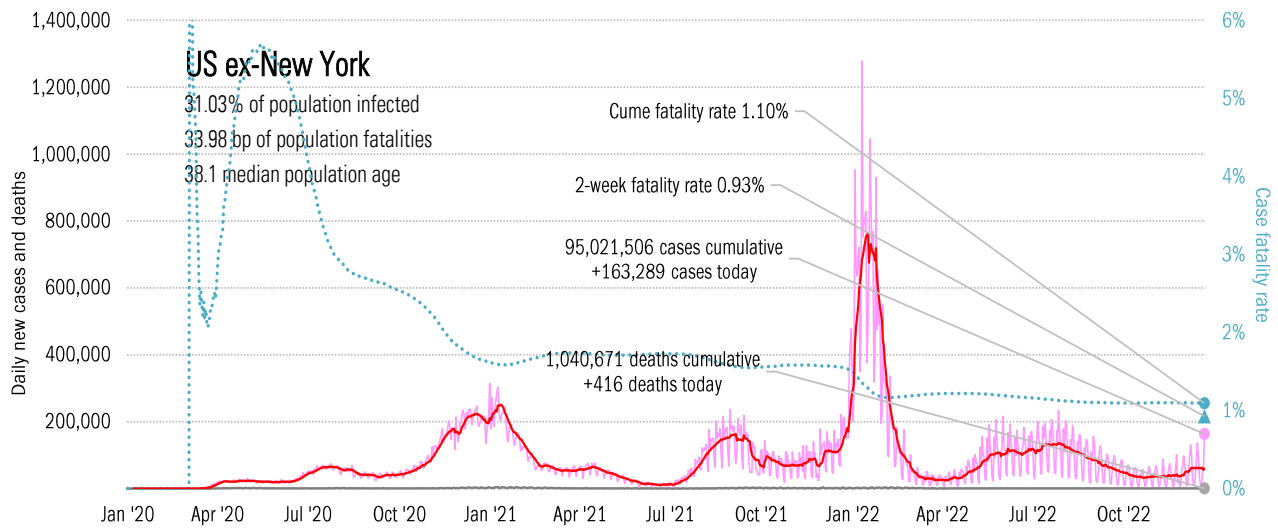
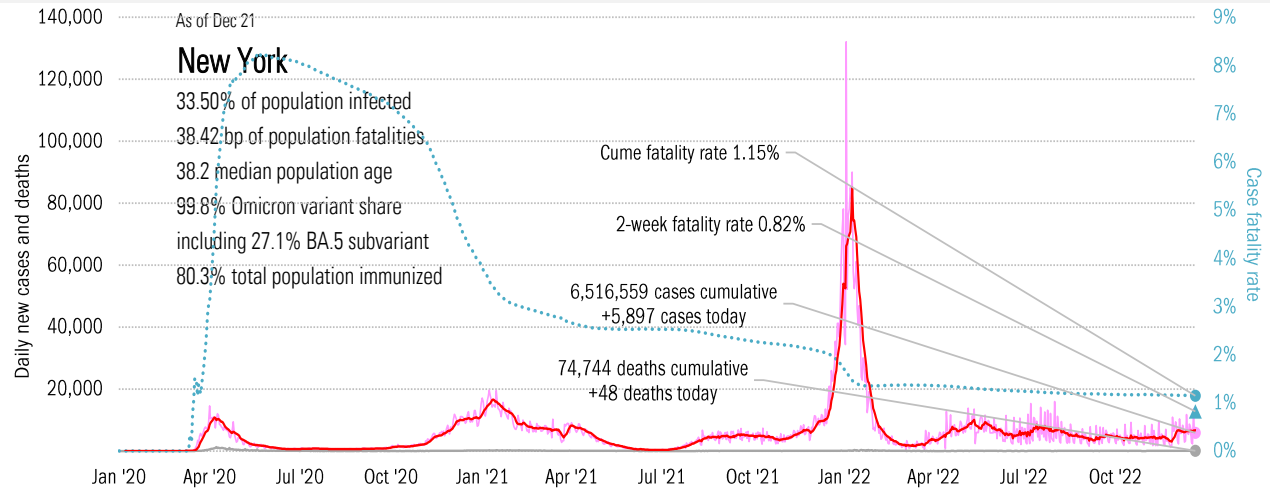
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

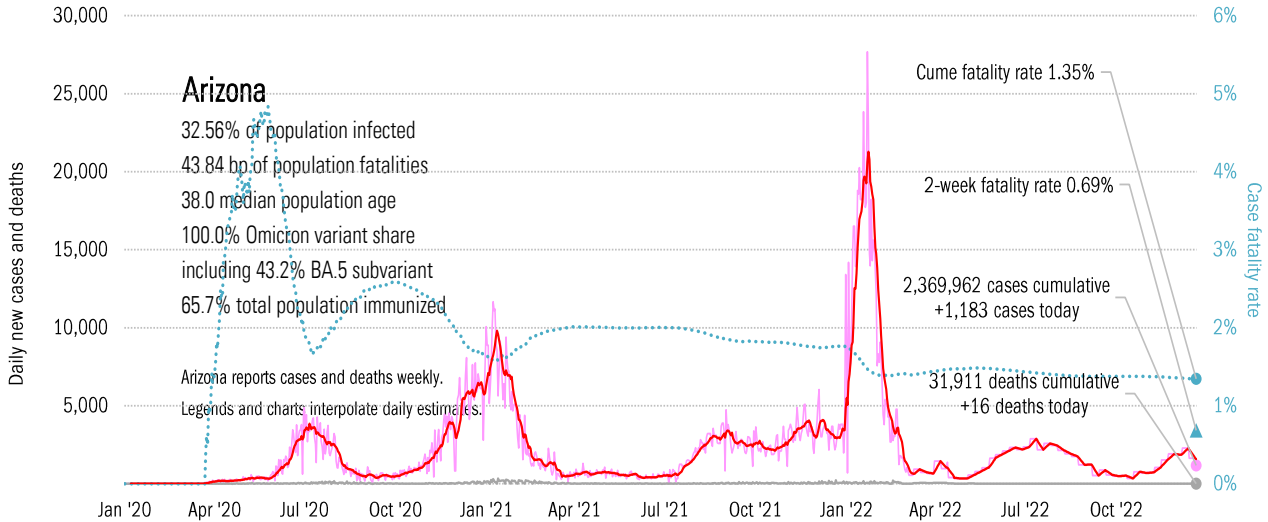
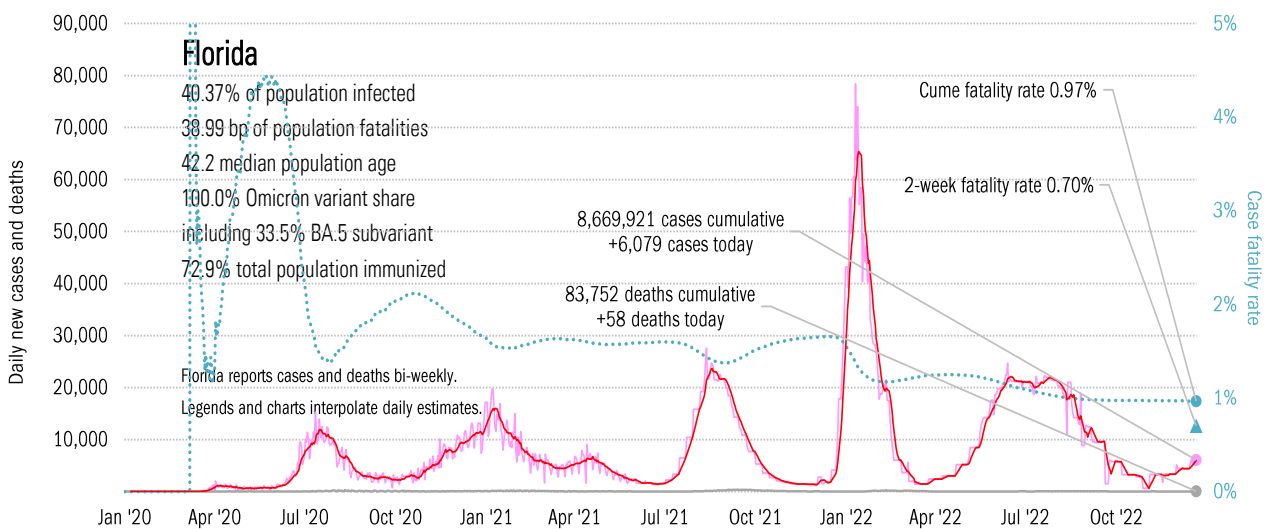
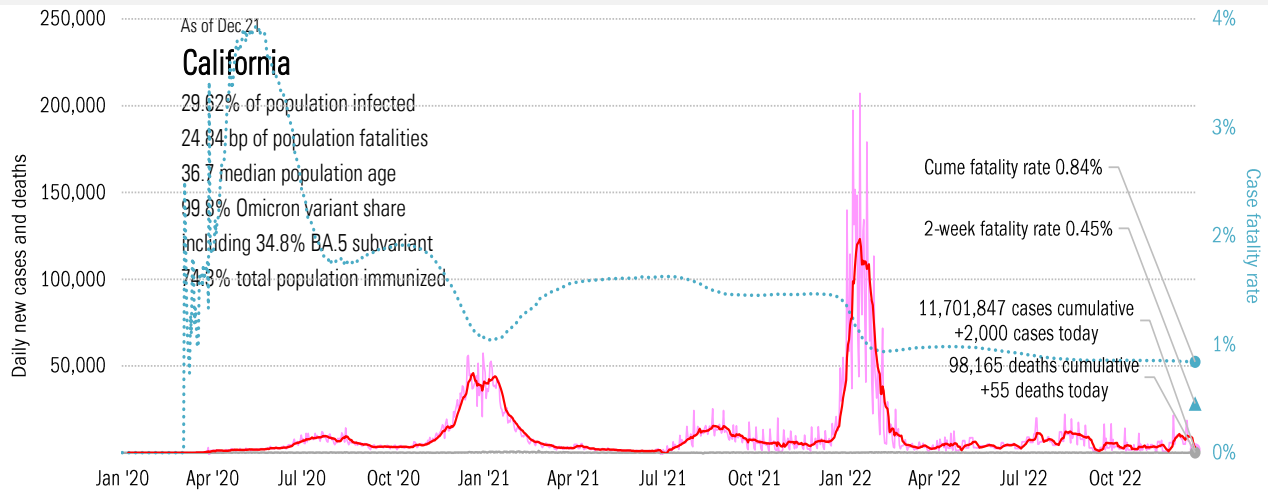
Cases: 7-day average and daily Deaths: Daily



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

# The sun-belt hot-spot states

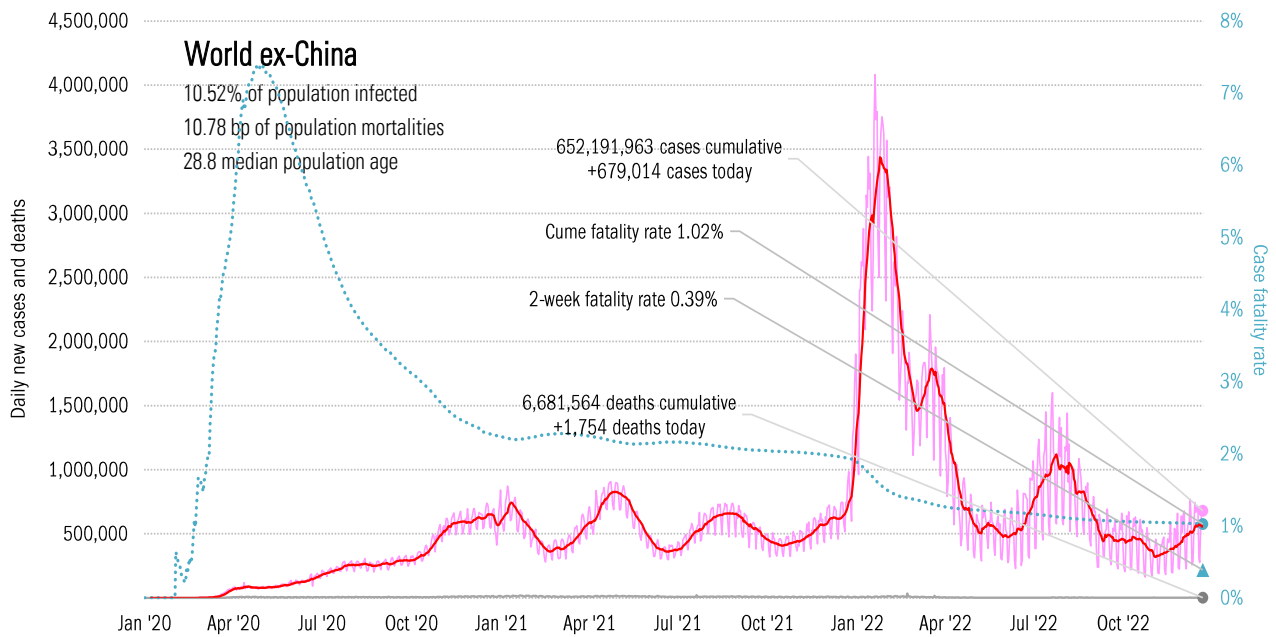
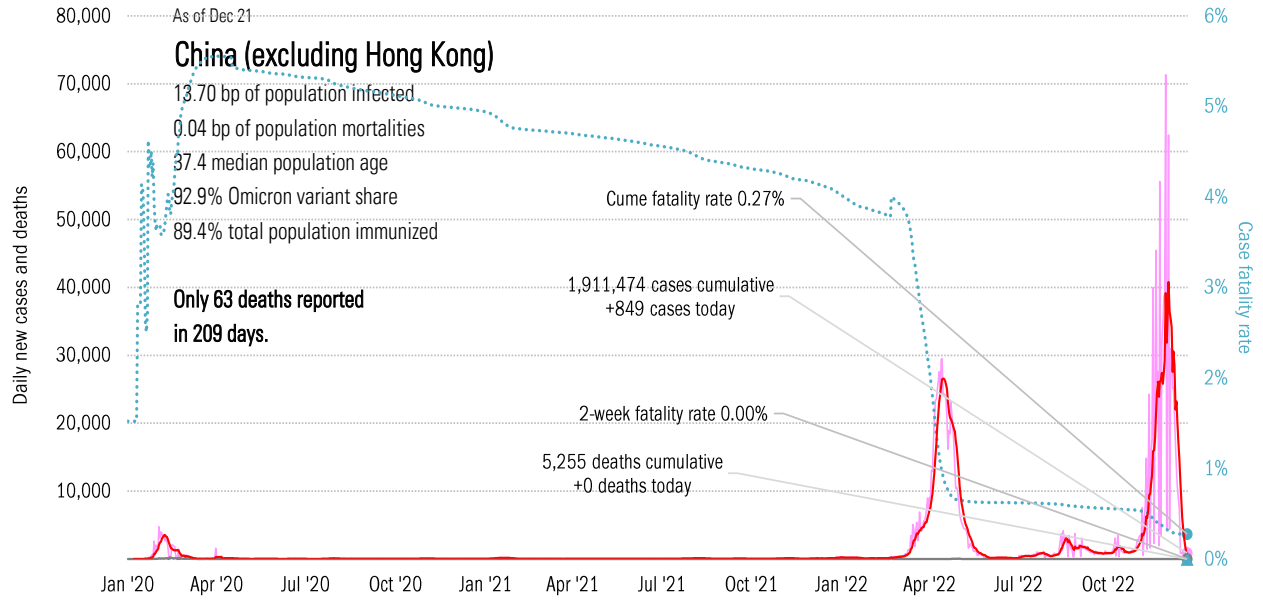
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

Cases: 7-day average and daily Deaths: Daily

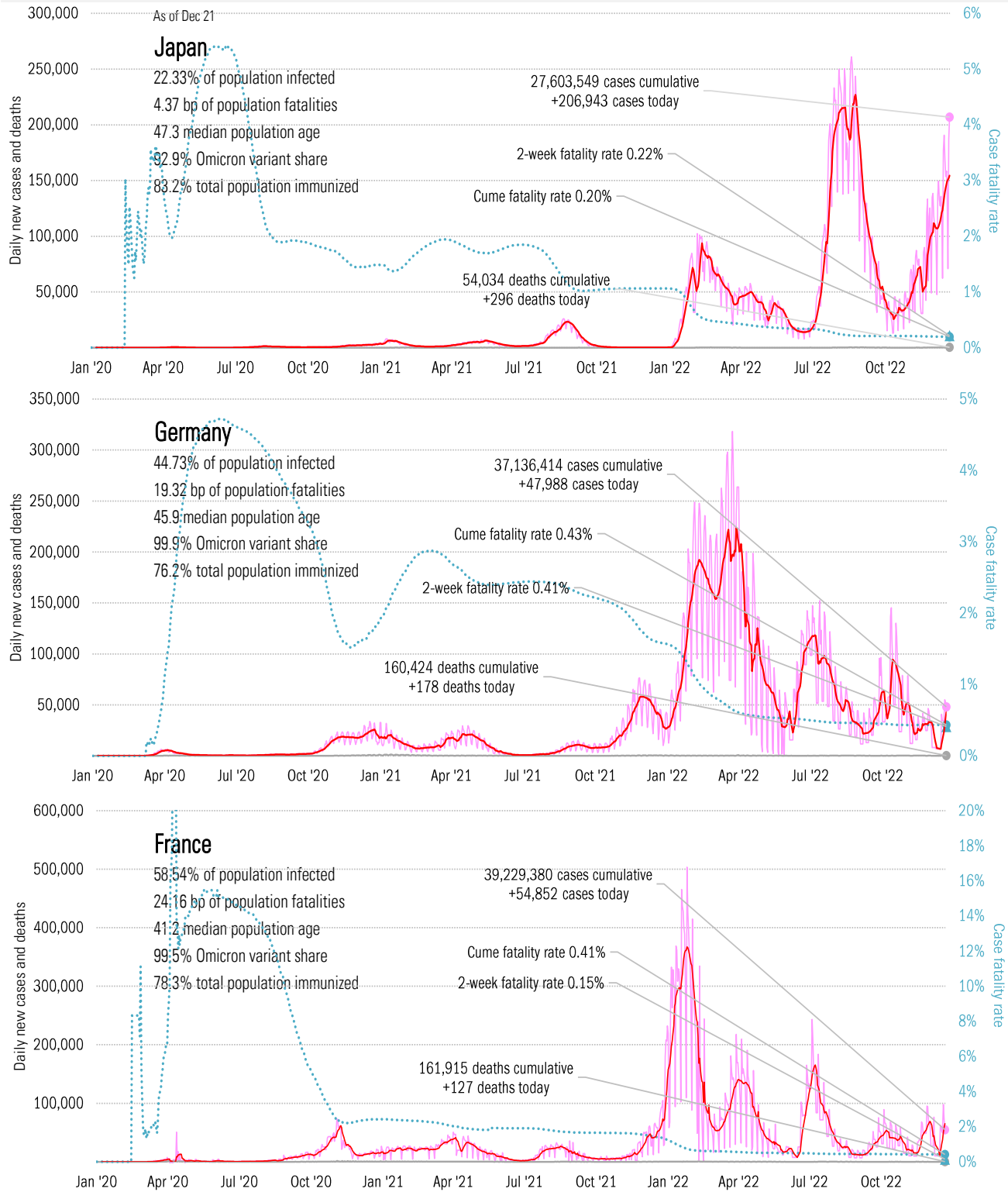


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in the largest economies

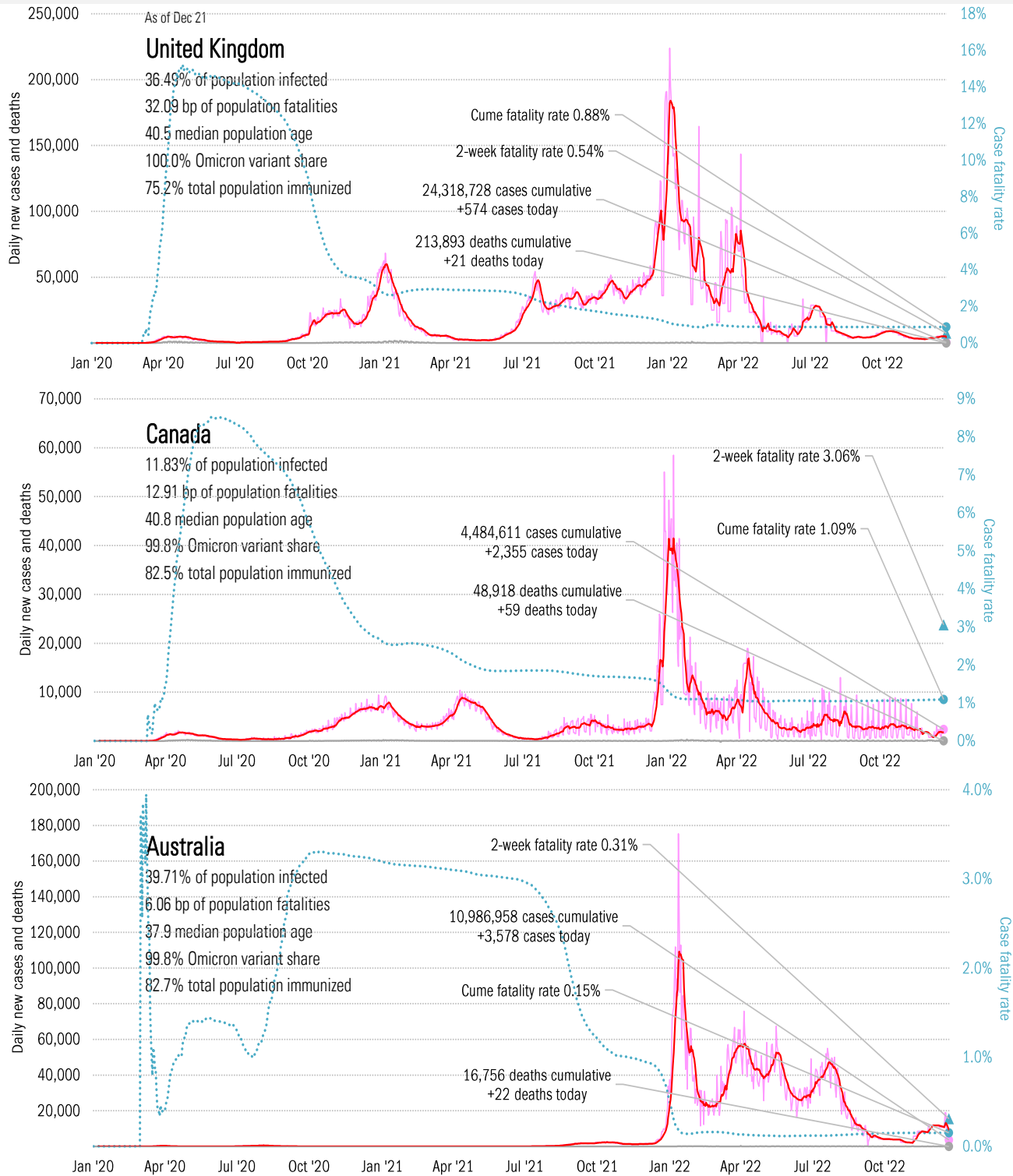
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Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in The Anglosphere

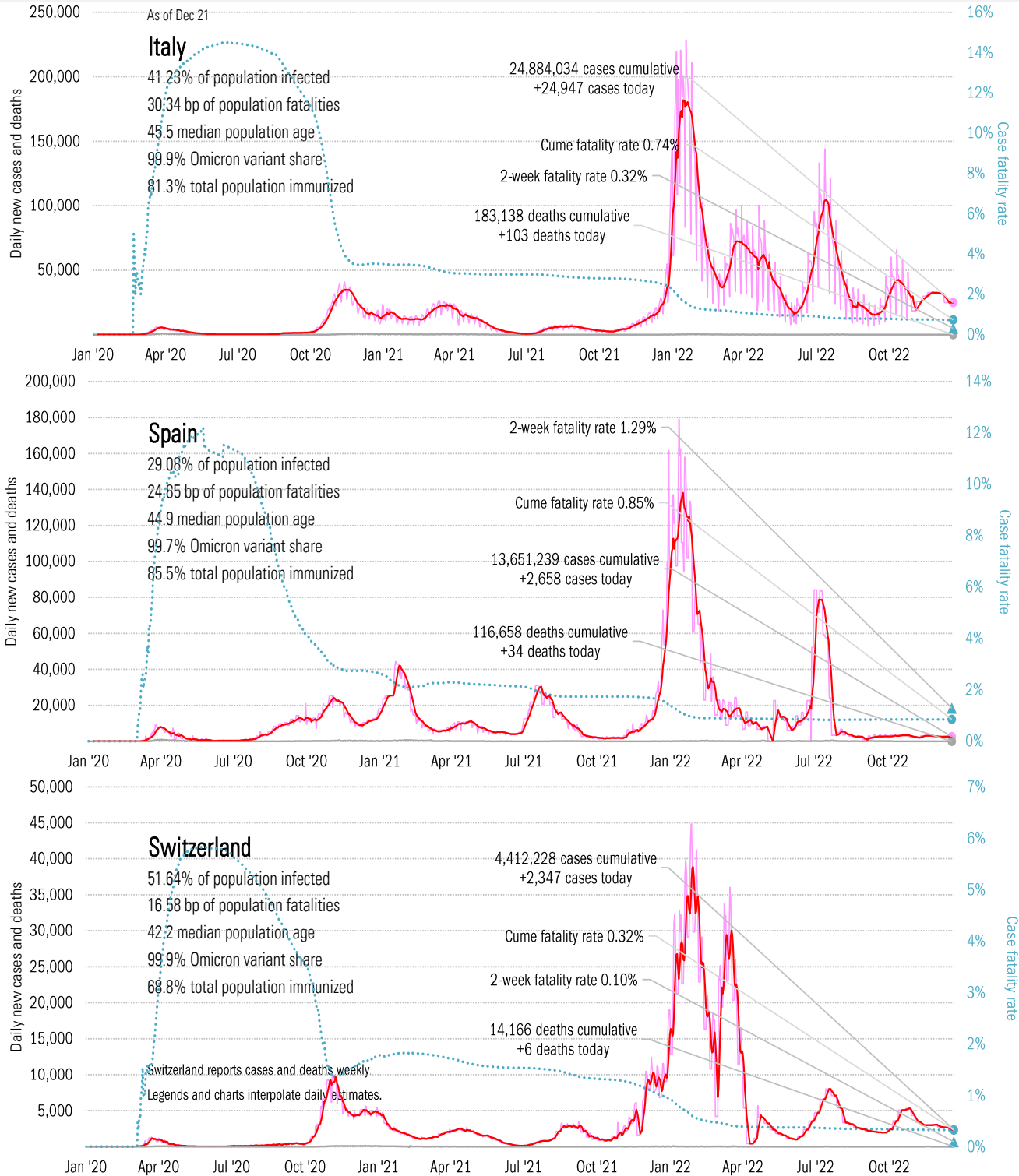
Cases: 7-day average and daily Deaths: Daily



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

# Impact in continental Europe

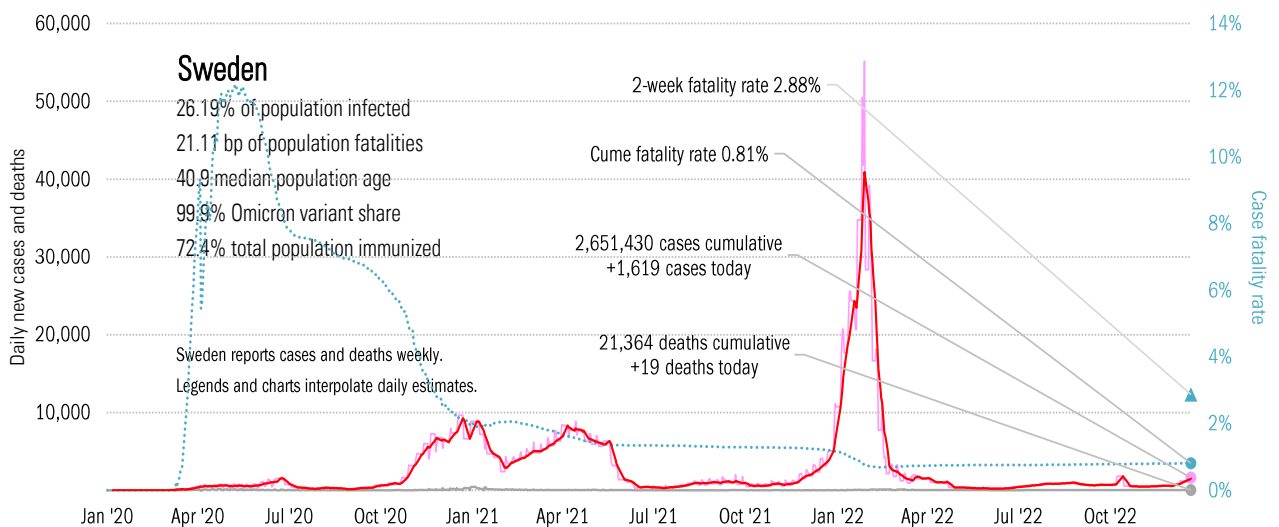
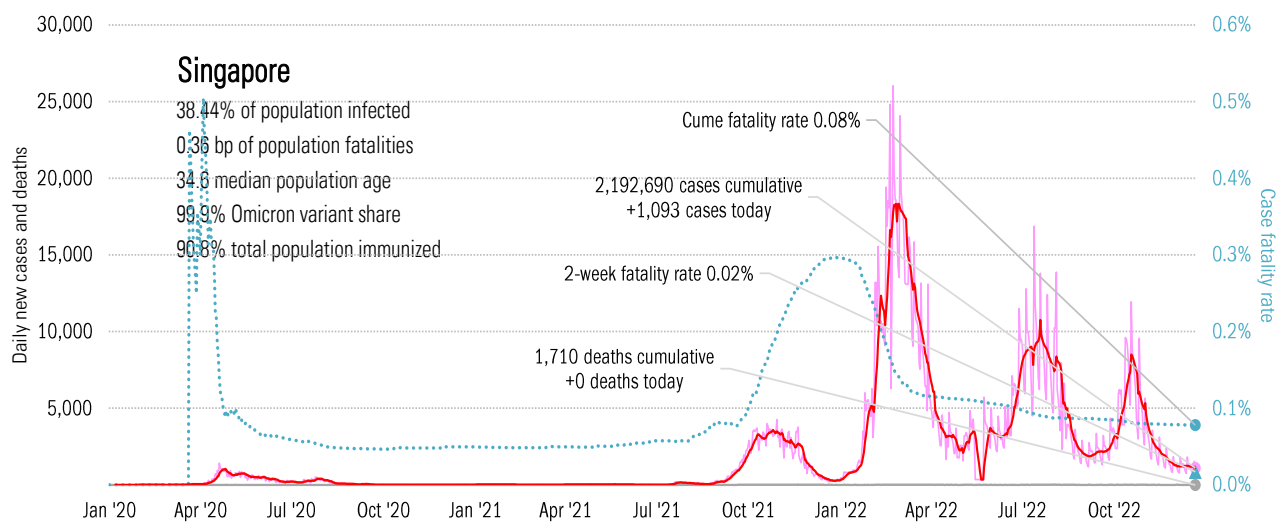
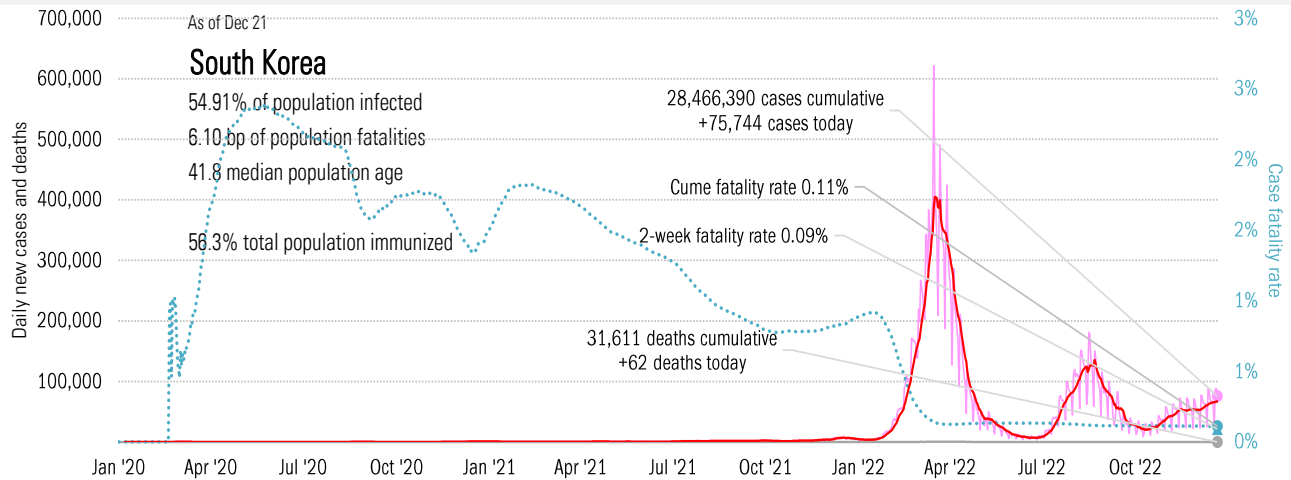
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

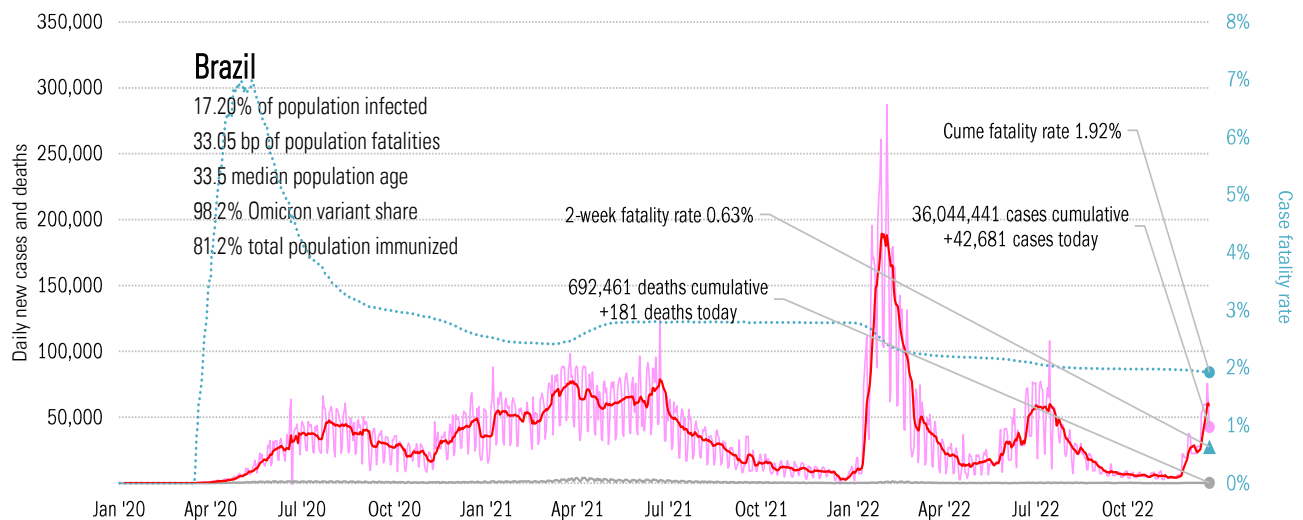
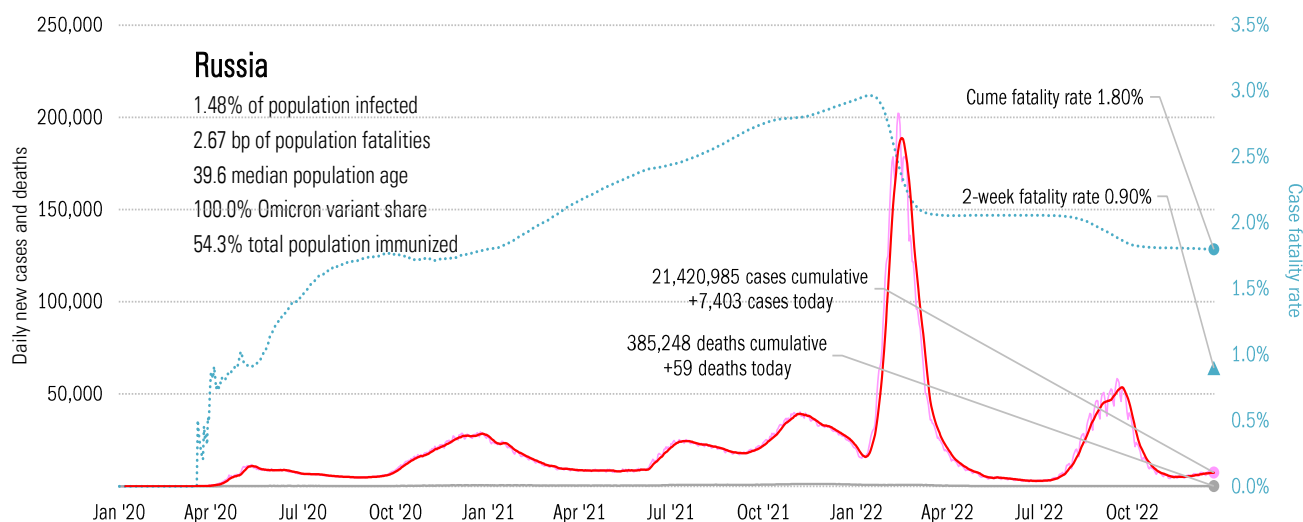
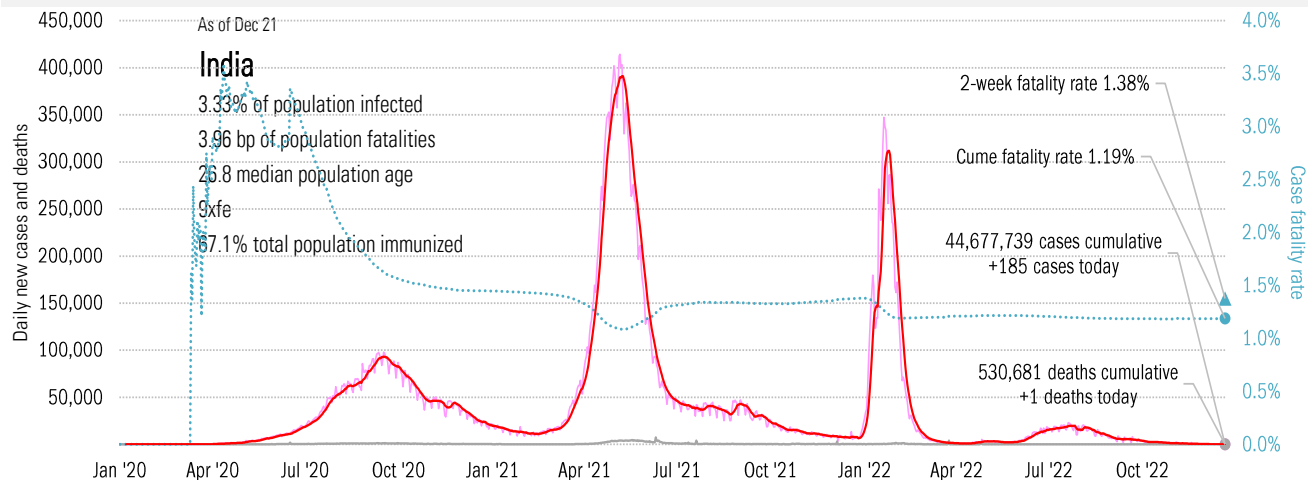
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

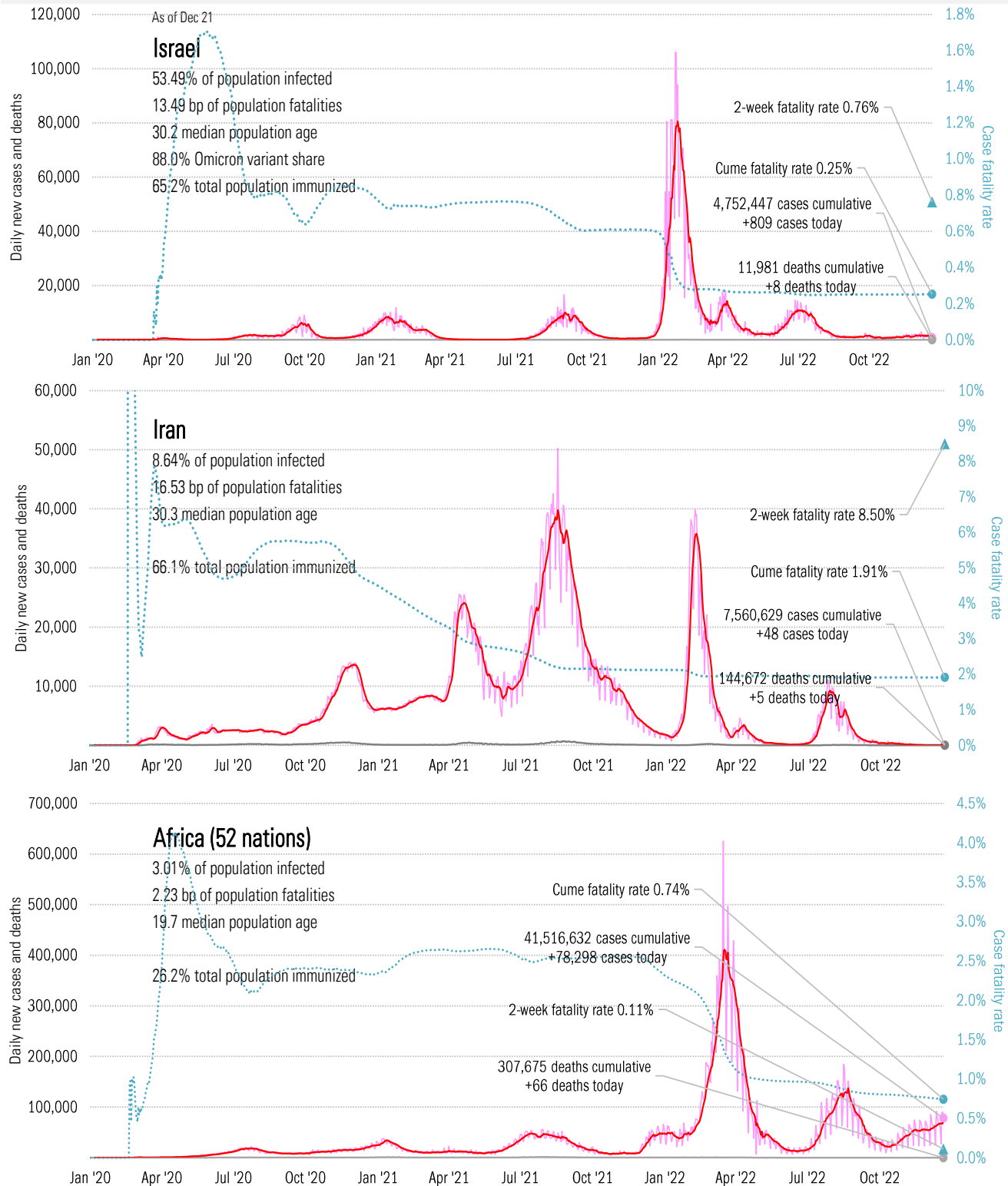
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

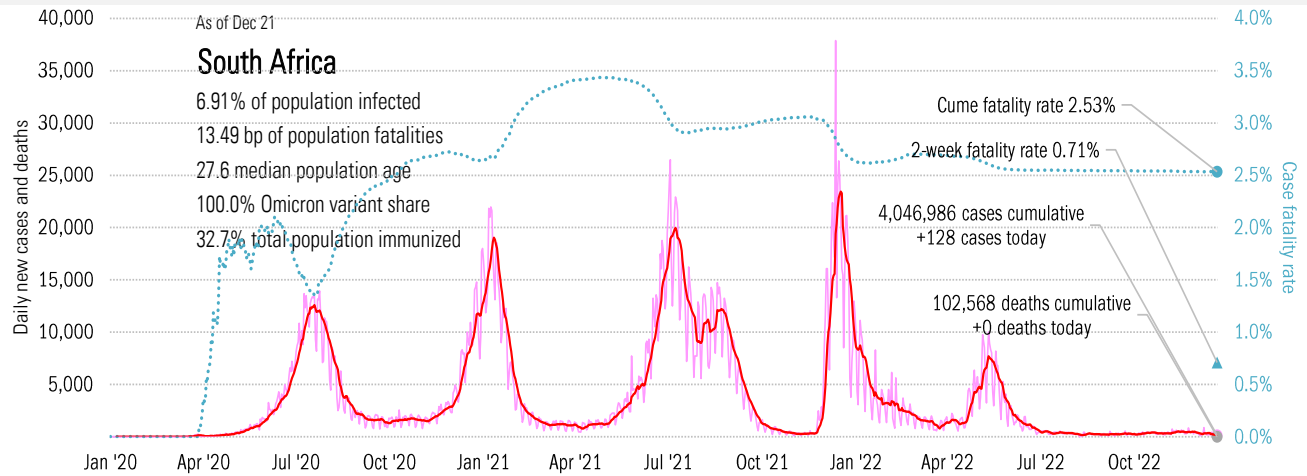
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), Trend Macro calculations