

## Data Insights: Covid-2019 Monitor

Thursday, December 29, 2022

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

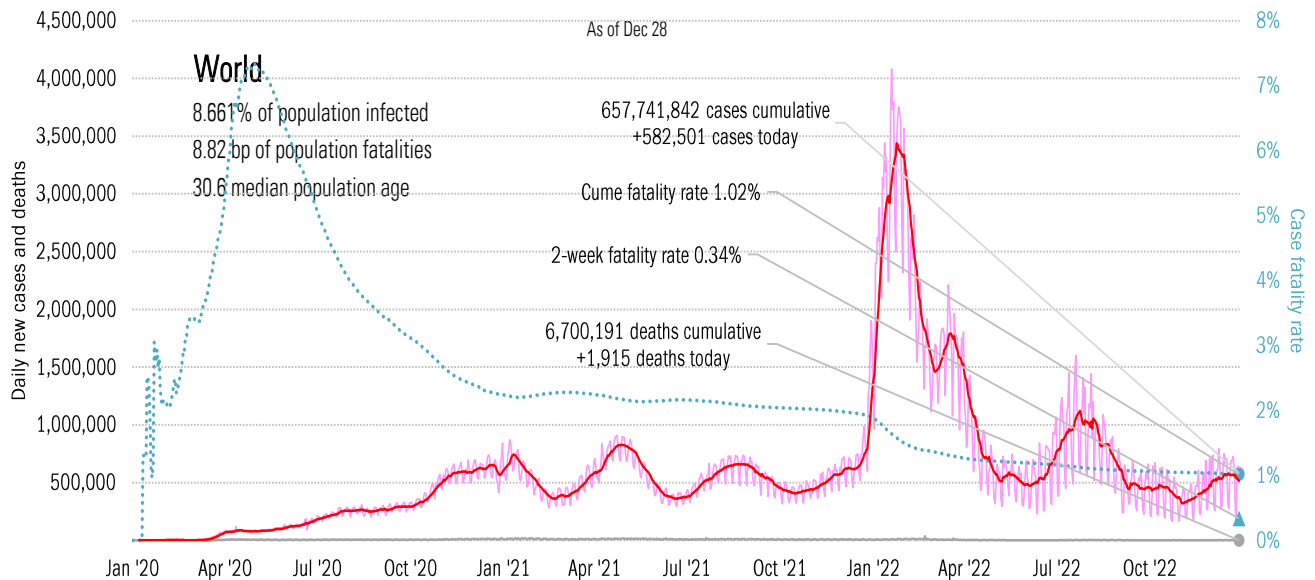
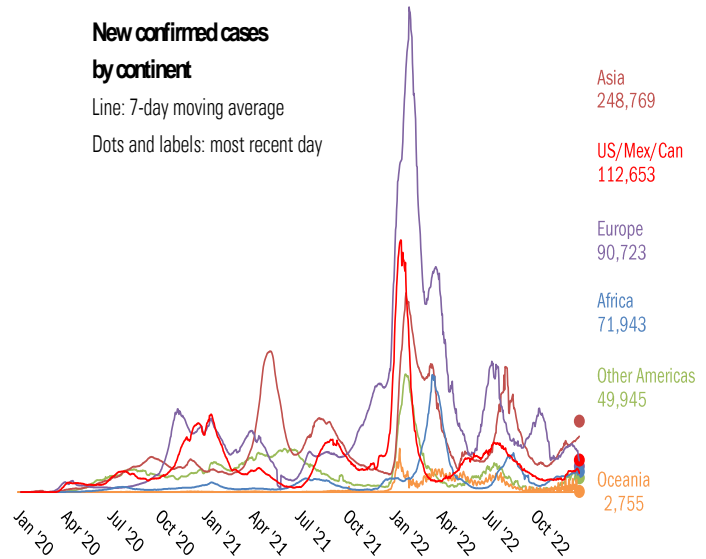
#### The worst ten countries

New cases		New Deaths	
Japan	216,219	United States	454
Korea, South	71,427	Japan	415
United States	61,642	Brazil	363
Germany	40,810	Germany	161
Brazil	38,434	France	140
Taiwan*	28,158	Italy	114
France	26,081	Korea, South	76
Italy	19,653	Hungary	56
Russia	6,139	Russia	55
Bolivia	5,950	Mexico	34
<b>514,513</b>		<b>1,868</b>	

#### 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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# The US scorecard

Cases: 7-day average and daily Deaths: Daily

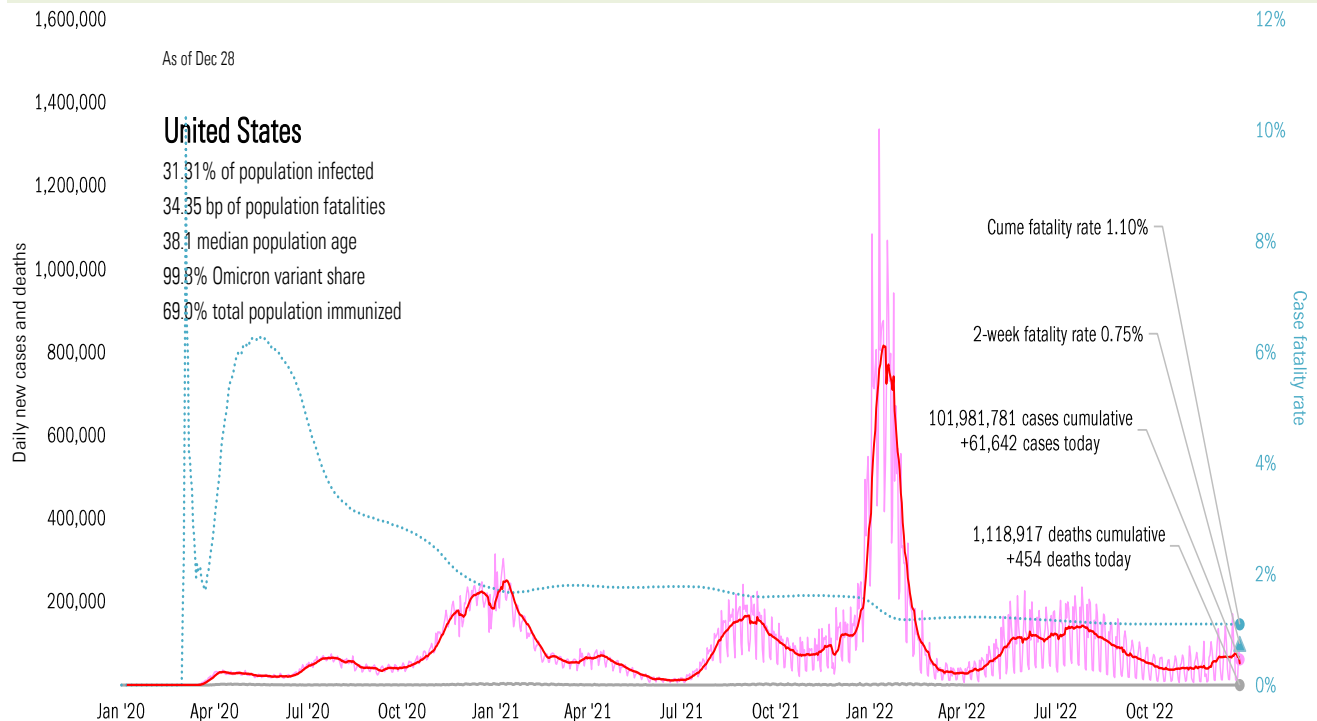
## The ten worst US states

New cases			New deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
FL	6,079		NY	111		TX	559		CA	11,784,553		CA	98,458		TX	566,952		RI	88%	VT	90%
TX	3,987		NV	46		CA	766		TX	8,223,918		TX	91,813		CA	539,699		WA	84%	TX	87%
MD	3,573		CA	34		GA	247		FL	7,312,963		FL	83,606		FL	512,459		MA	84%	NH	85%
NY	3,157		FL	32		MA	214		NY	6,556,733		NY	75,004		NY	334,020		NH	84%	MA	84%
NJ	2,995		NJ	25		NC	180		IL	3,963,196		PA	48,892		CH	234,958		MN	79%	NC	82%
IL	2,762		CO	23		FL	387		PA	3,416,142		GA	41,417		GA	234,134		AK	79%	RI	82%
KS	2,592		AZ	21		SC	112		NC	3,316,814		CH	40,840		PA	219,831		CR	79%	WA	82%
CH	2,556		TX	21		VA	162		CH	3,294,521		MI	40,767		IL	203,281		MO	78%	AL	81%
VA	2,435		MA	16		KY	96		MI	2,988,654		IL	40,633		MI	174,585		MD	78%	KY	80%
NC	2,382		CR	14		IN	142		GA	2,985,193		NJ	35,459		NJ	152,504		CA	78%	GA	80%
32,519			342			2,865			53,842,687			596,889			3,172,423						
All states	61,642			454			6,094		All states	101,981,781			1,118,917			5,759,064		All states	70%		67%
Top ten	53%			75%			47%		Top ten	54%			55%			55%		Median	73%		73%

Some states not reporting

## Five most improved US states

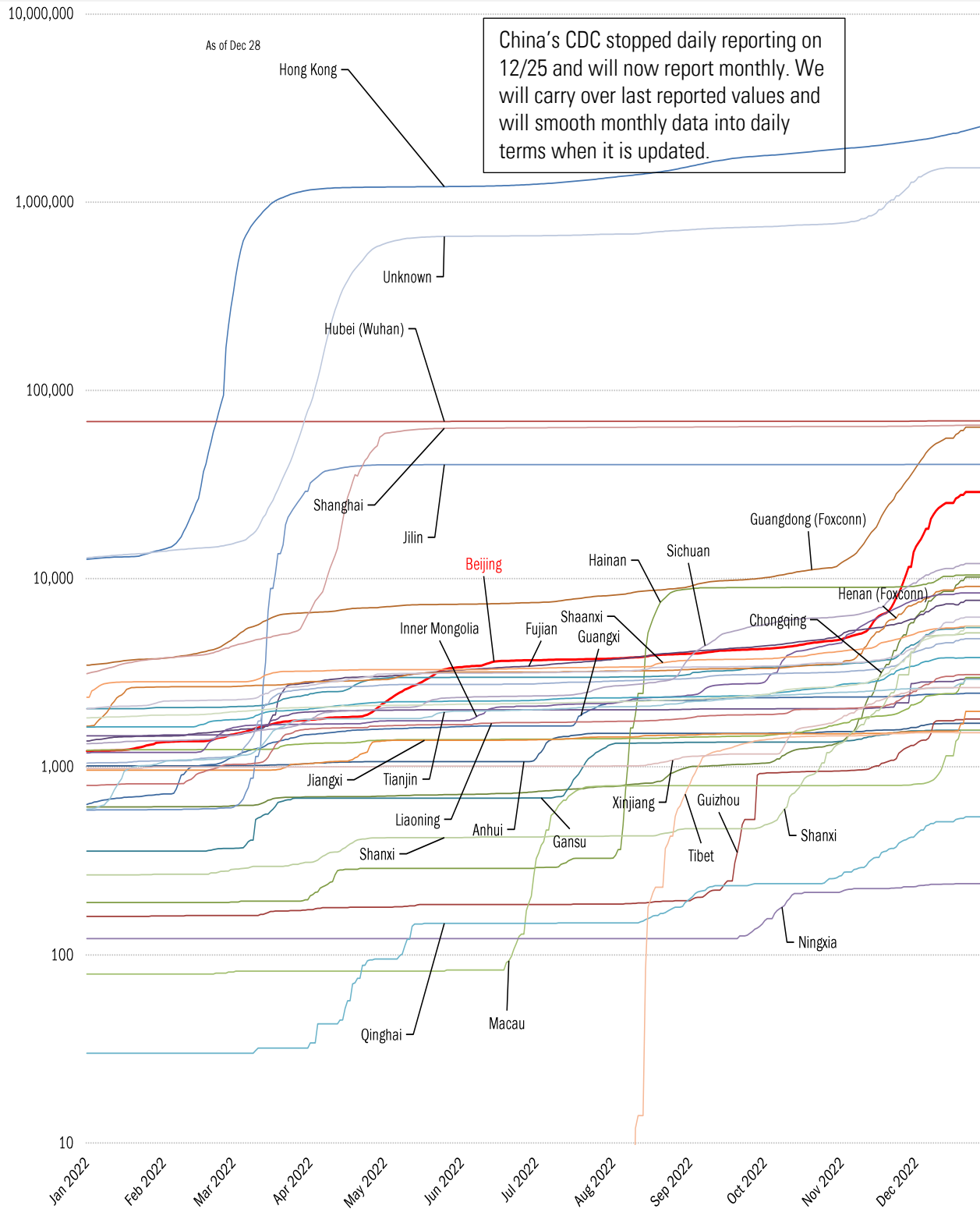
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
NY	-11,461	MI	-16	FR	-379
NJ	-5,002	IL	-11	MN	-86
CA	-4,789	TN	-8	LA	-51
WV	-1,005	NM	-5	CH	-51
NM	-580	CA	-4	TN	-50



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"*

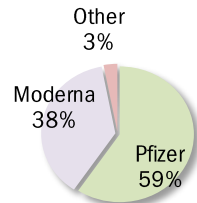


Source: [Johns Hopkins](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative		Today		Immunity	Full	Partial	
Doses	678,686,171		+0.129 million		US	69.0%	80.8%	
			Of which boosters: +0.112 million		UK	75.2%	79.7%	
	One dose	% Pop	Immune	% pop	New immune today	France	78.3%	80.6%
Total population	276,532,813	83%	235,793,758	71%	+0.012 million	Spain	85.5%	86.9%
Age 12 to 17	18,402,383	73%	15,755,703	62%	+0.001 million	Germany	76.2%	77.8%
Age 18 to 64	183,917,291	90%	156,388,919	77%	+0.007 million	Italy	81.3%	86.2%
Age 65 and over	60,924,924	100%	53,362,544	97%	+0.003 million	Australia	82.7%	84.9%
						Israel	65.2%	71.1%
						Canada	82.5%	90.0%
						Japan	83.2%	84.3%
						Africa	26.2%	32.2%
						India	67.1%	72.5%
						Brazil	81.2%	87.6%
						China	89.4%	91.7%



AK	72.7%
	64.9%

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

Best
Middle
Worst

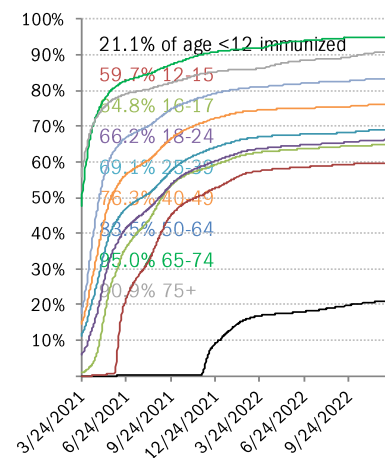
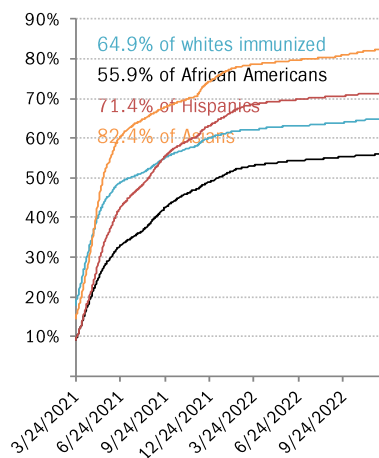
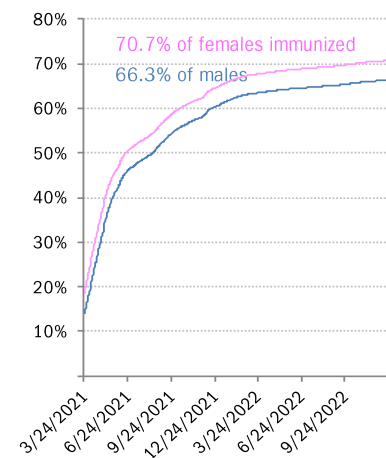
"Immunity" = two doses

As of Dec 23

Global data differs due to sources, timing

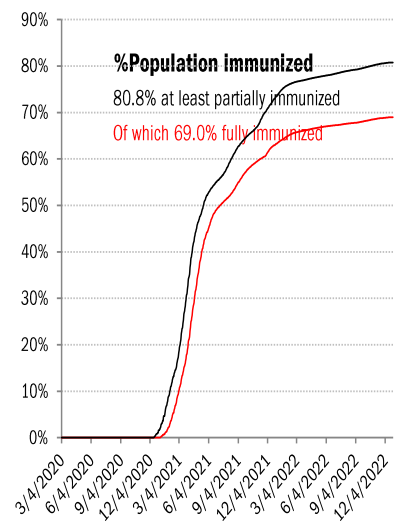
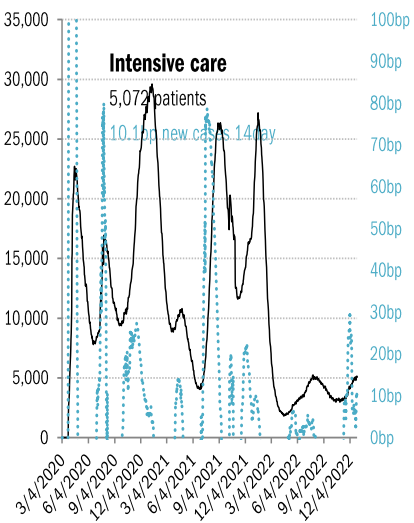
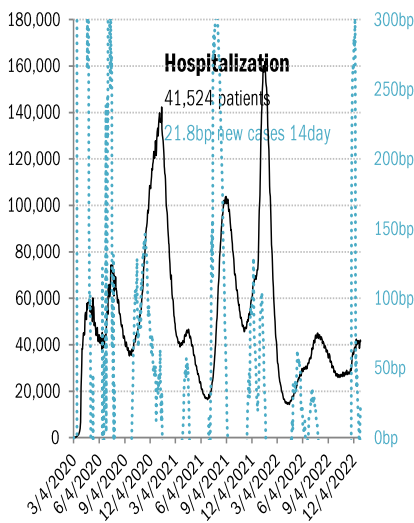
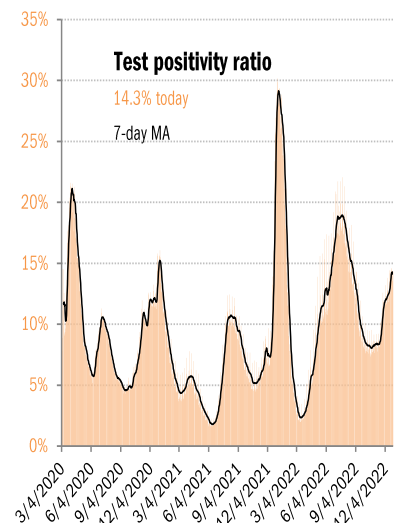
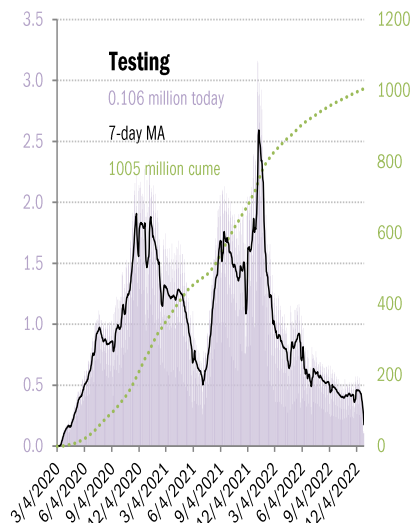
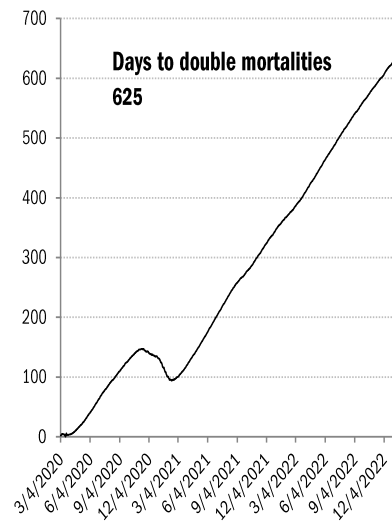
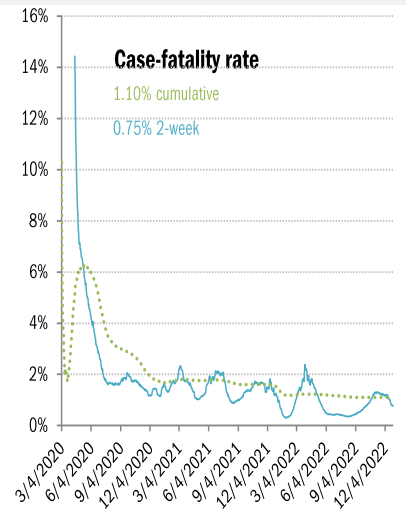
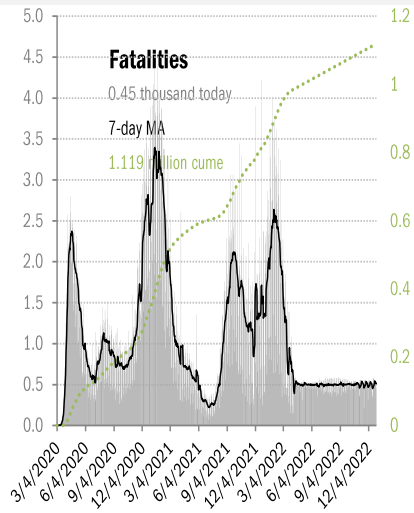
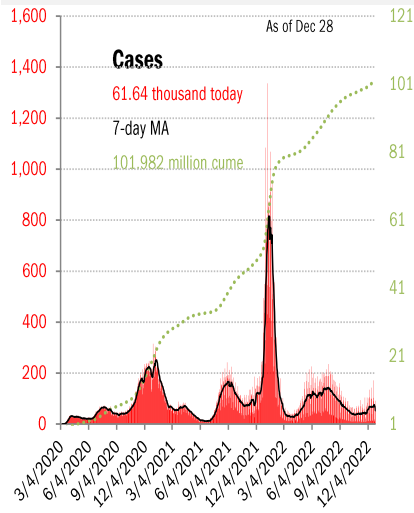
					WI						ME
					74.8%						95.0%
					67.9%						83.0%
WA	ID	MT	ND	MN	IL	MI			NY	VT	NH
84.8%	63.7%	68.0%	69.0%	78.4%	78.9%	69.2%			94.0%	95.0%	87.5%
75.7%	56.3%	58.9%	58.4%	71.8%	71.0%	62.1%			80.4%	85.2%	71.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA		
81.2%	77.2%	60.7%	83.3%	70.4%	64.1%	65.5%	90.1%	94.2%	95.0%		
72.1%	63.5%	52.9%	65.9%	64.1%	57.6%	60.2%	72.9%	78.8%	83.7%		
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI	
84.2%	74.9%	83.3%	73.1%	69.1%	68.6%	67.3%	90.5%	91.2%	95.0%	95.0%	
74.3%	66.4%	73.2%	66.0%	58.8%	59.4%	59.5%	76.3%	79.3%	82.7%	87.3%	
	AZ	NM	KS	AR	TN	NC	SC	DC	DE		
	77.0%	93.7%	75.8%	69.6%	64.2%	91.5%	70.7%	95.0%	87.7%		
	65.8%	74.8%	65.0%	56.7%	56.1%	66.7%	59.7%	85.2%	72.9%		
			OK	LA	MS	AL	GA				
			74.3%	62.6%	61.5%	64.8%	68.0%				
			60.2%	54.9%	53.5%	53.0%	57.0%				
			TX								
			76.0%								
			63.0%								
								FL		PR	
								82.1%		95.0%	
								69.2%		86.7%	

## The demographics of US vaccination



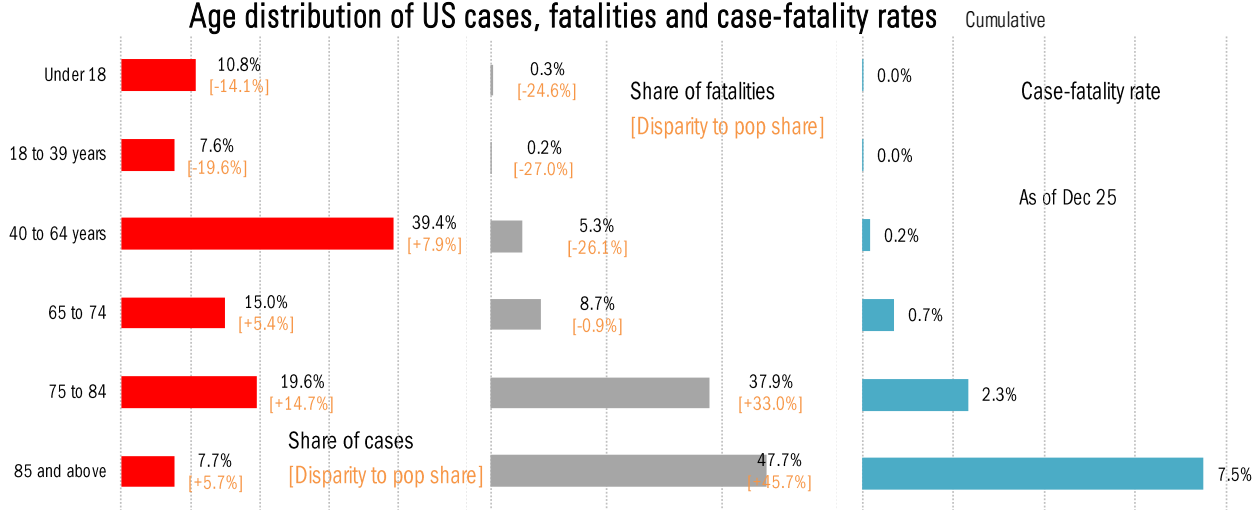
Source: CDC, CDC, Our World in Data, TrendMacro calculations

# US deep-dive

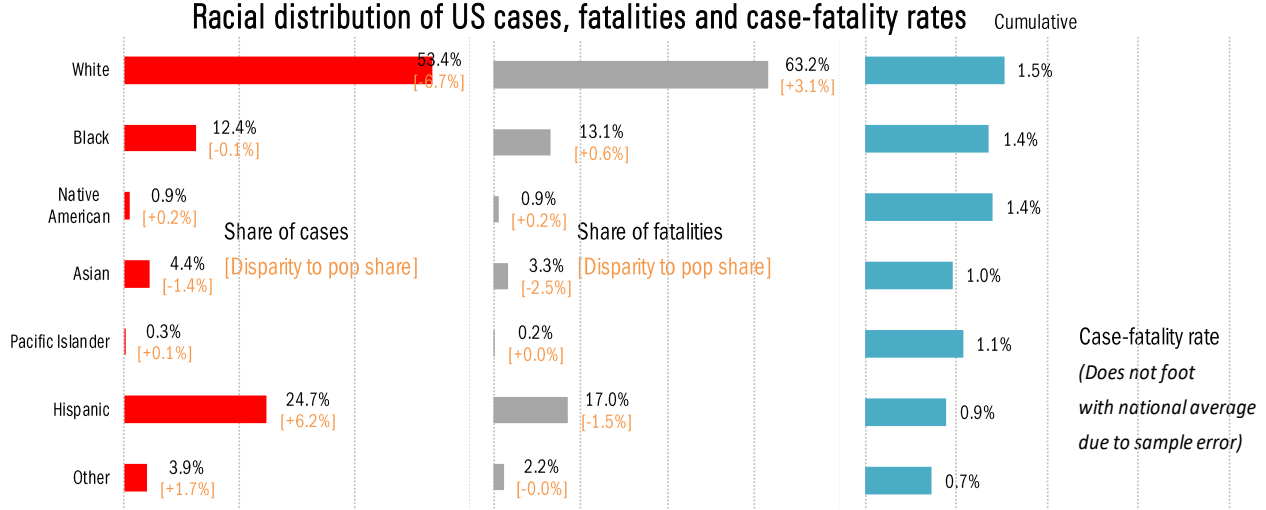


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

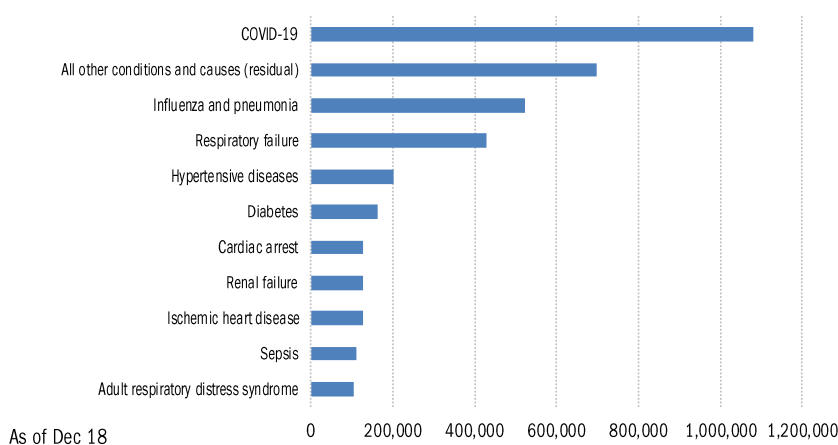


Racial distribution of US cases, fatalities and case-fatality rates



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

### [U.S. will require travelers from China to show negative COVID test before flight](#)

Ashley Ahn  
*NPR*  
December 28, 2022

### [Chinese CDC to adjust COVID-19 stats publishing frequency](#)

Zou Shuo  
*China Daily*  
December 27, 2022

### [U.S. to require Covid tests for travelers coming from China](#)

Phelim Kine and David Lim  
*Politico*  
December 28, 2022

### [Pandemic Learning Loss Could Cost Students \\$70,000 in Lifetime Earnings](#)

Ben Chapman and Douglas Belkin  
*Wall Street Journal*  
December 27, 2022

### [Welcome to the Winter of Our Déjà Vu](#)

Alyson Krueger  
*New York Times*  
December 26, 2022

### [As Covid-19 Continues to Spread, So Does Misinformation About It](#)

Tiffany Hsu  
*New York Times*  
December 28, 2022

### [How Did U.S. Intelligence Spot the Virus in Wuhan Weeks Before China?](#)

Will Jones  
*Brownstone Institute*  
December 22, 2022

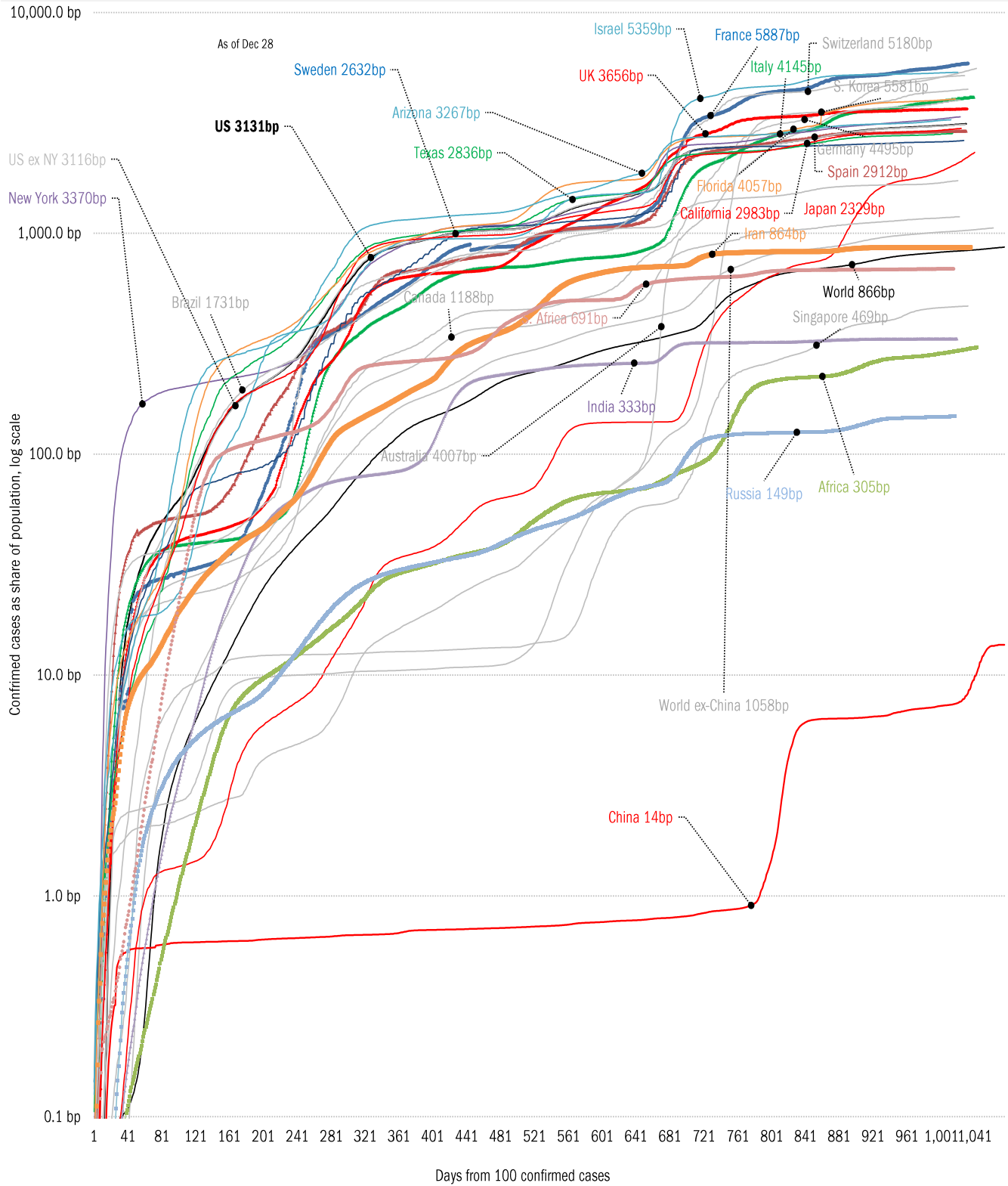
## Meme of the Day



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*

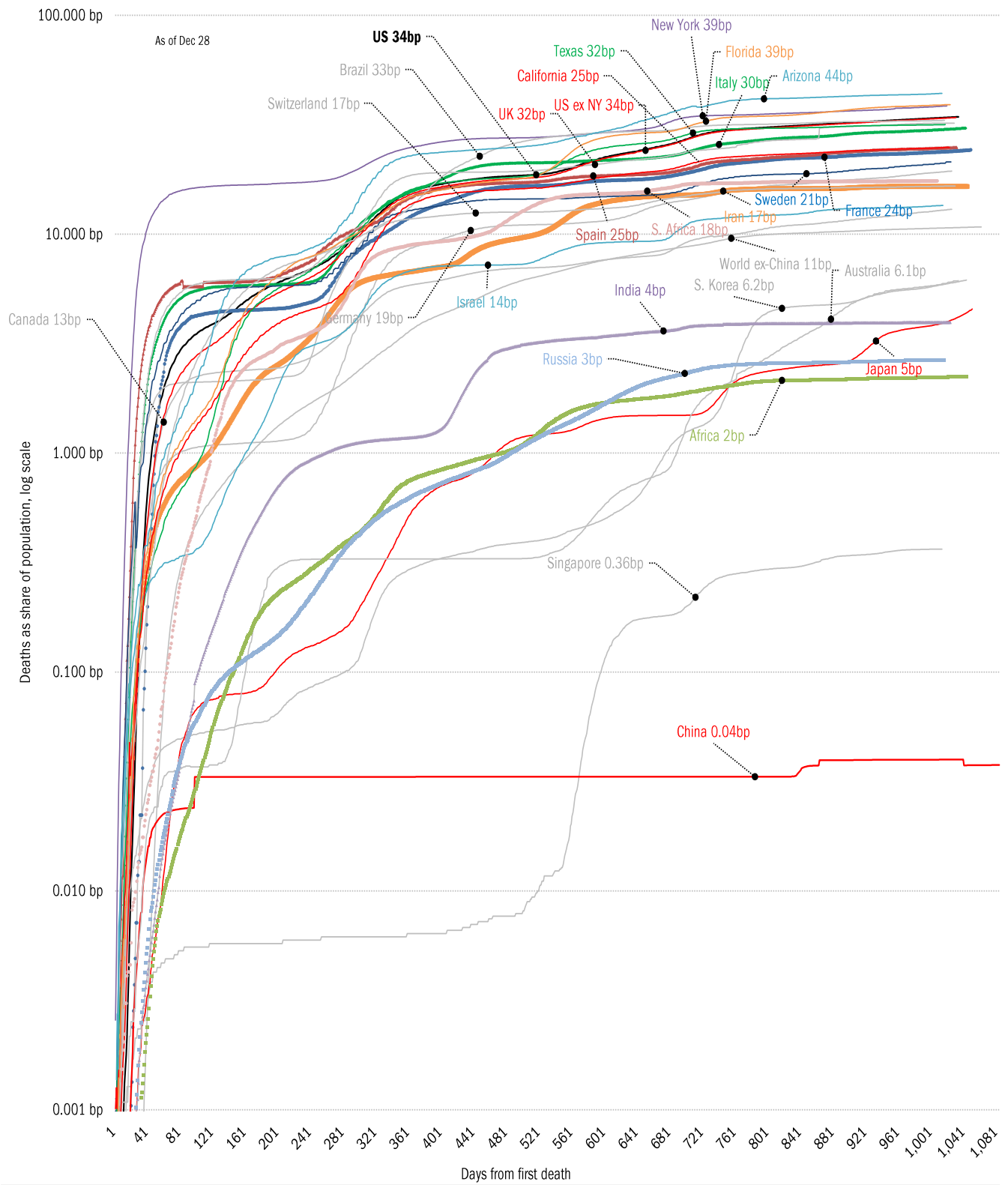


Source: [Johns Hopkins](#), TrendMacro calculations



# The global coronavirus mortality accelerometer ... tracking the world's fatality curves

*Share of population deceased from day of first fatality, log scale*

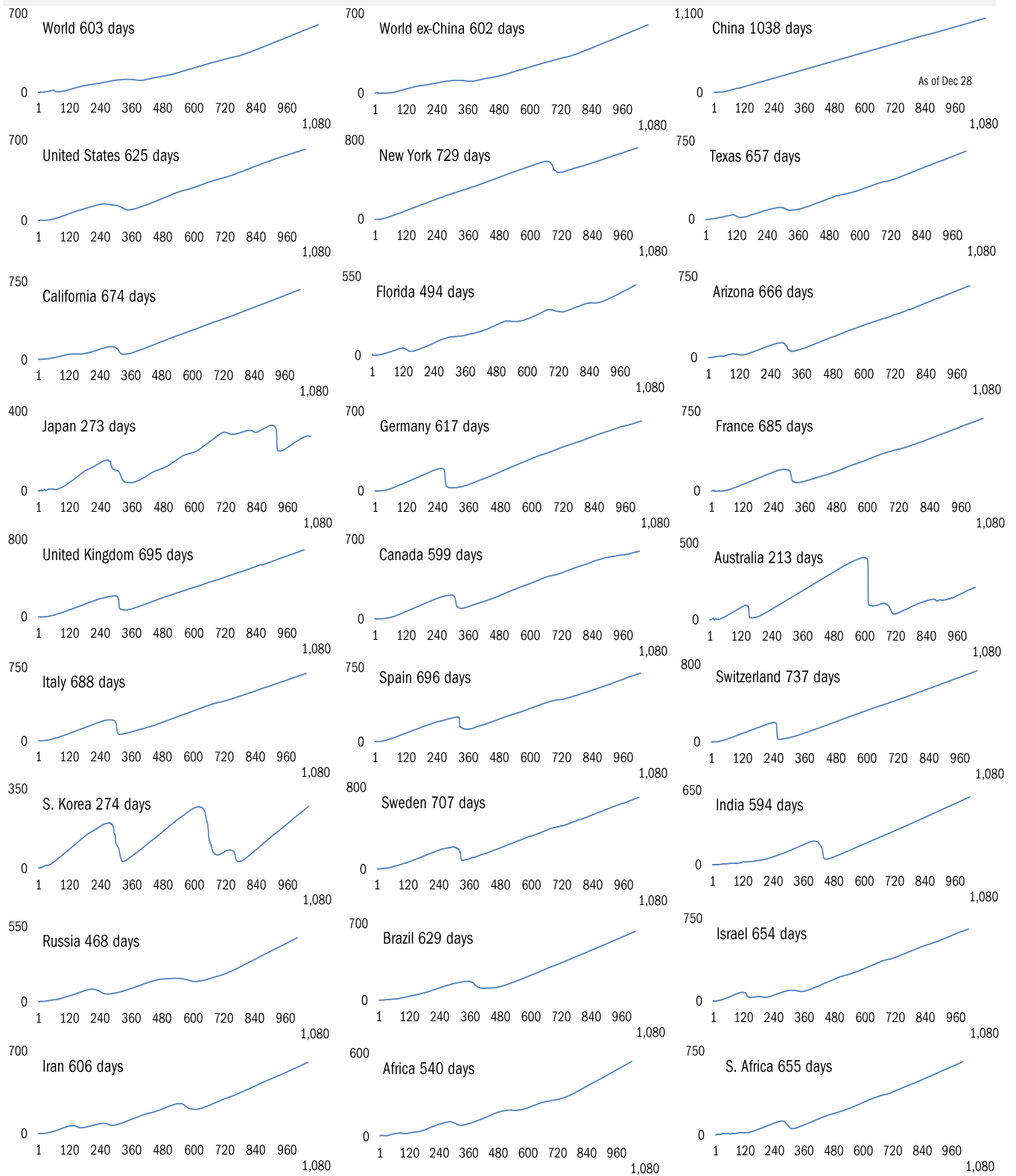


Source: [Johns Hopkins](#), TrendMacro calculations

# 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

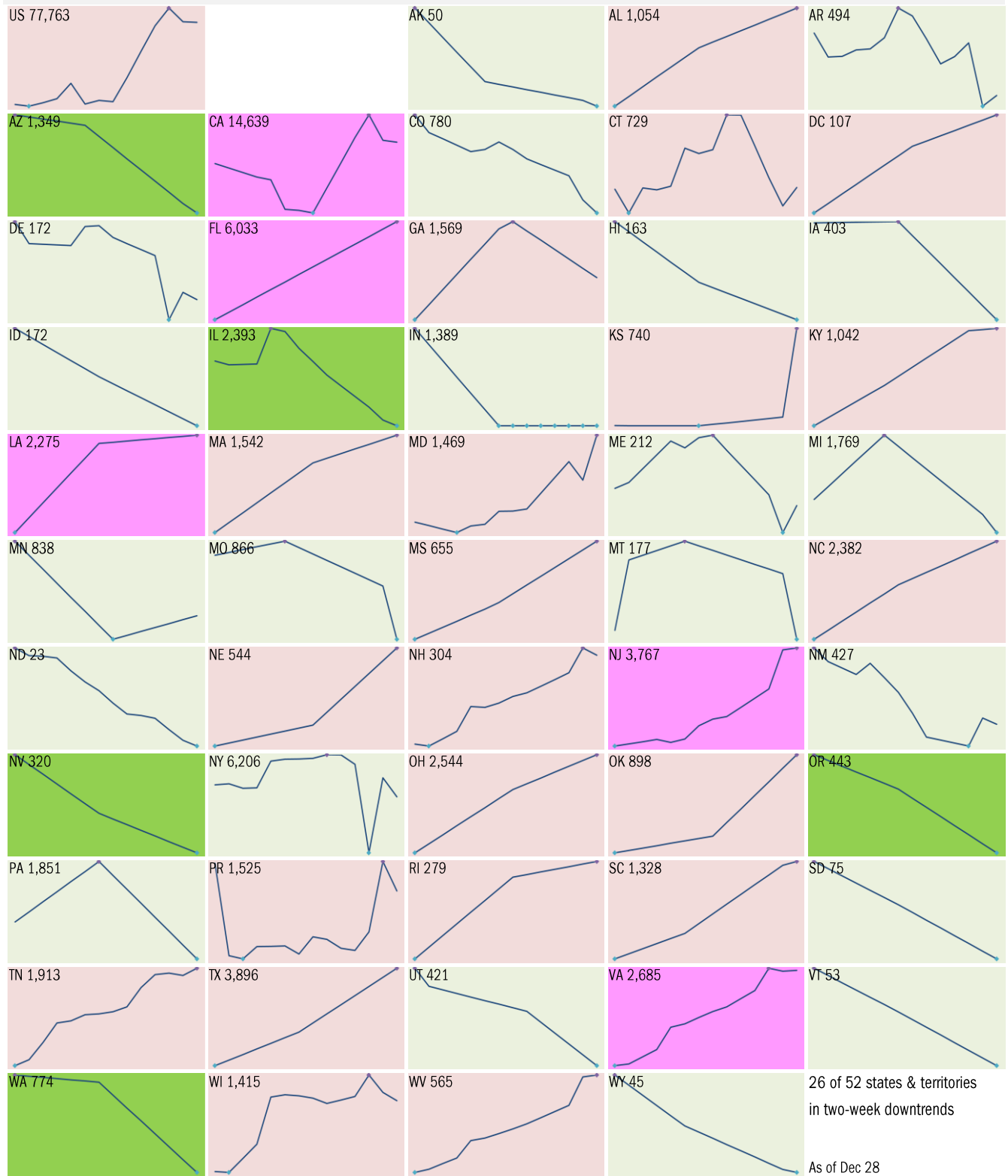


Source: [Johns Hopkins](#), TrendMacro calculations

# 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

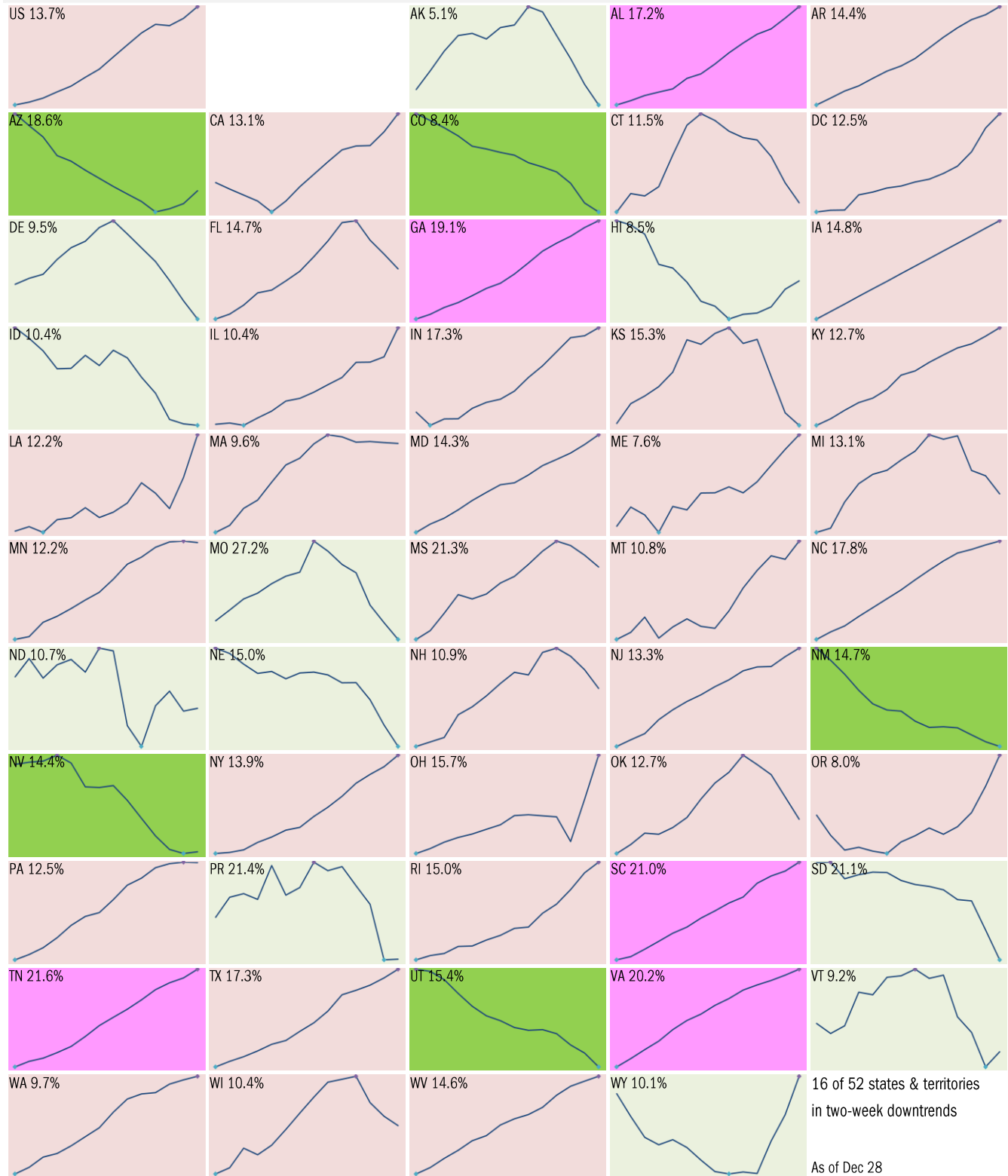


Source: [Johns Hopkins](#), TrendMacro calculations

# 14-day trajectory in test-positivity ratio

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

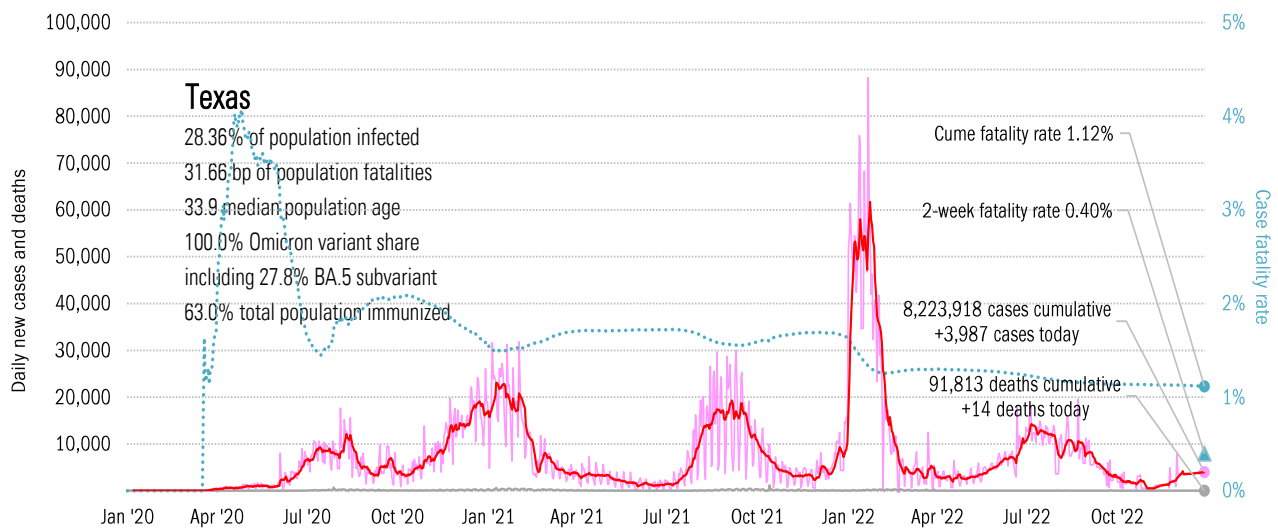
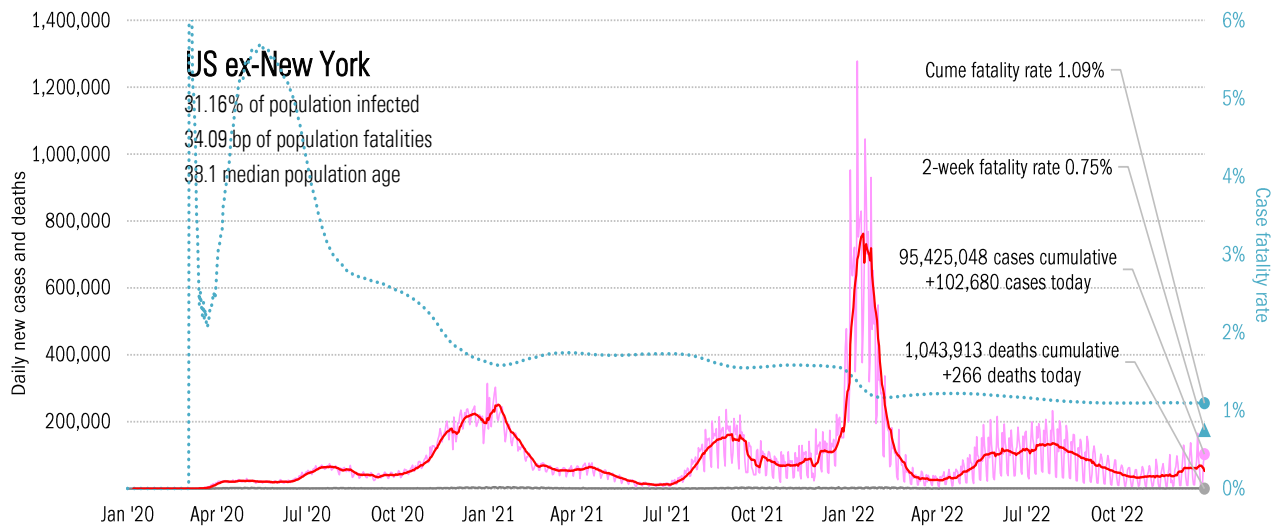
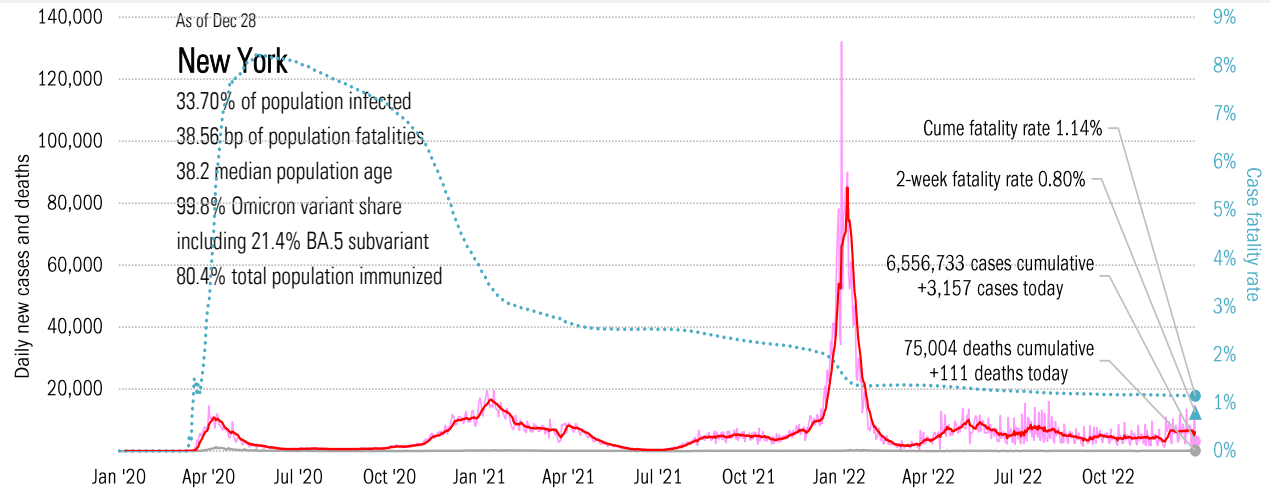
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

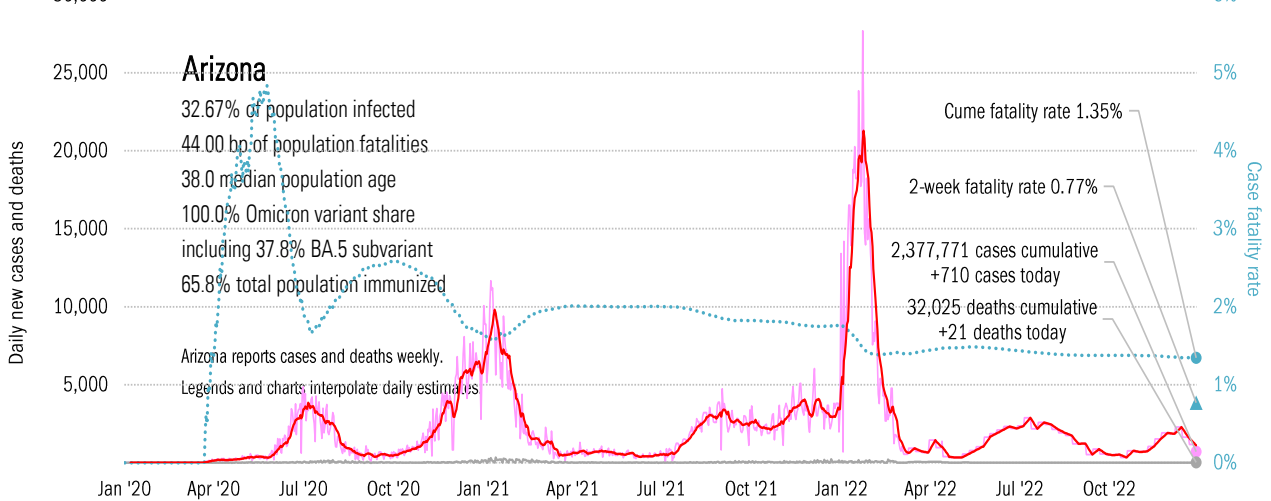
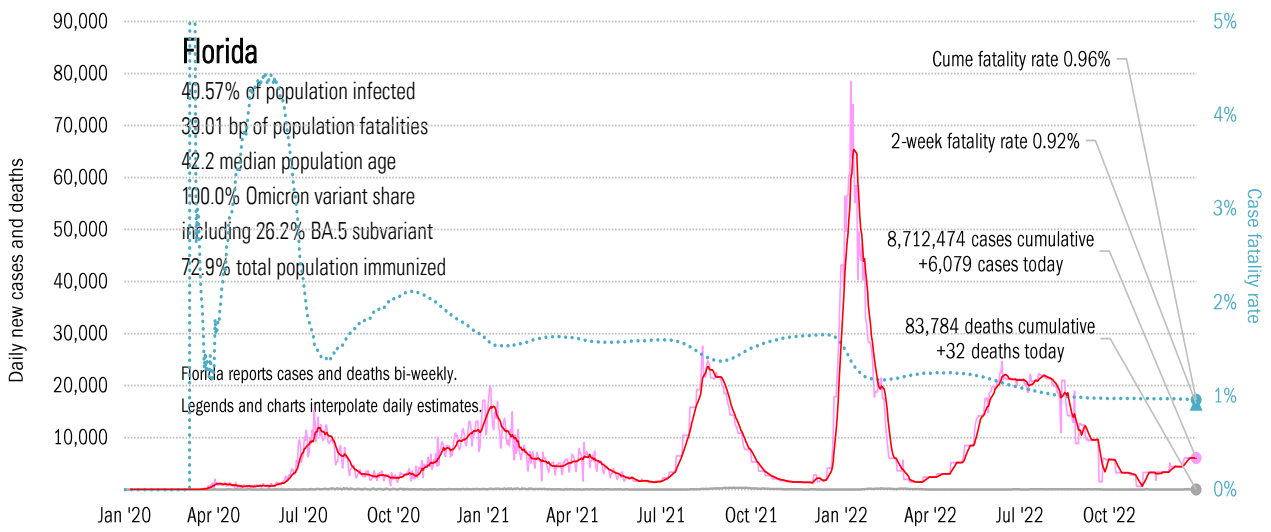
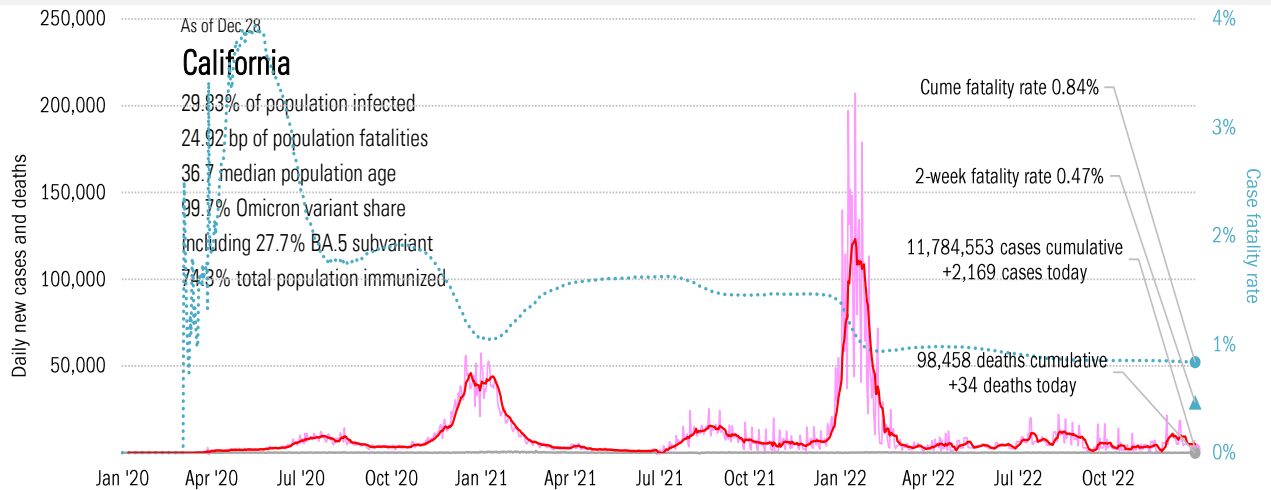
Cases: 7-day average and daily Deaths: Daily



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

# The sun-belt hot-spot states

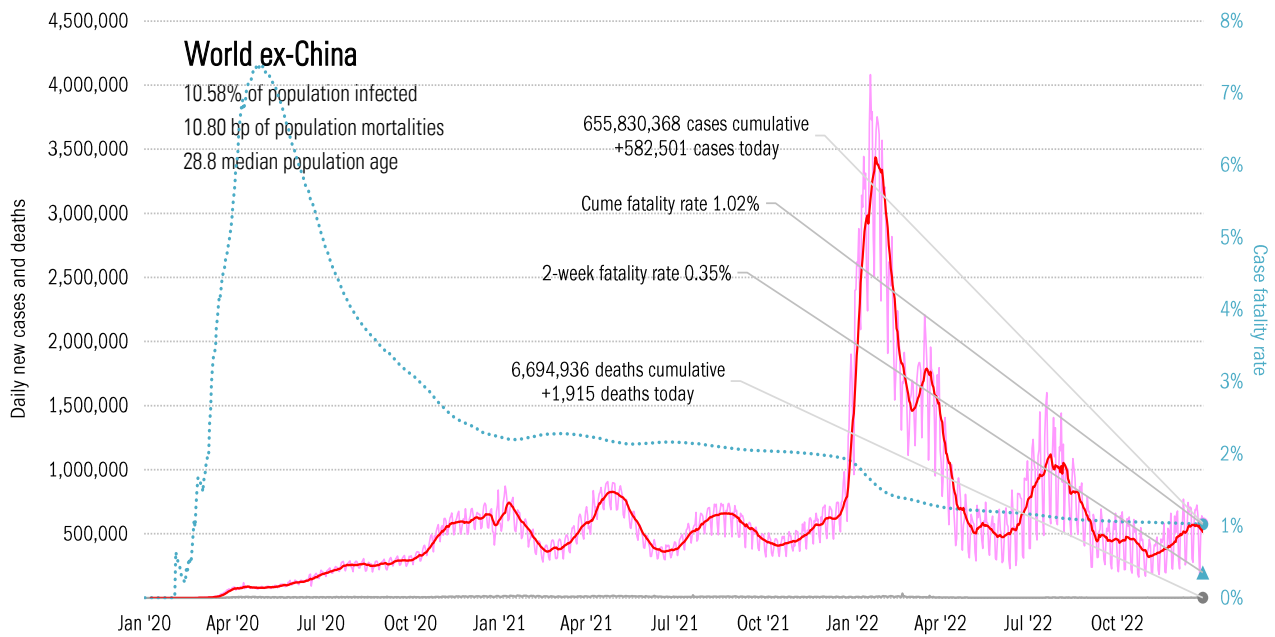
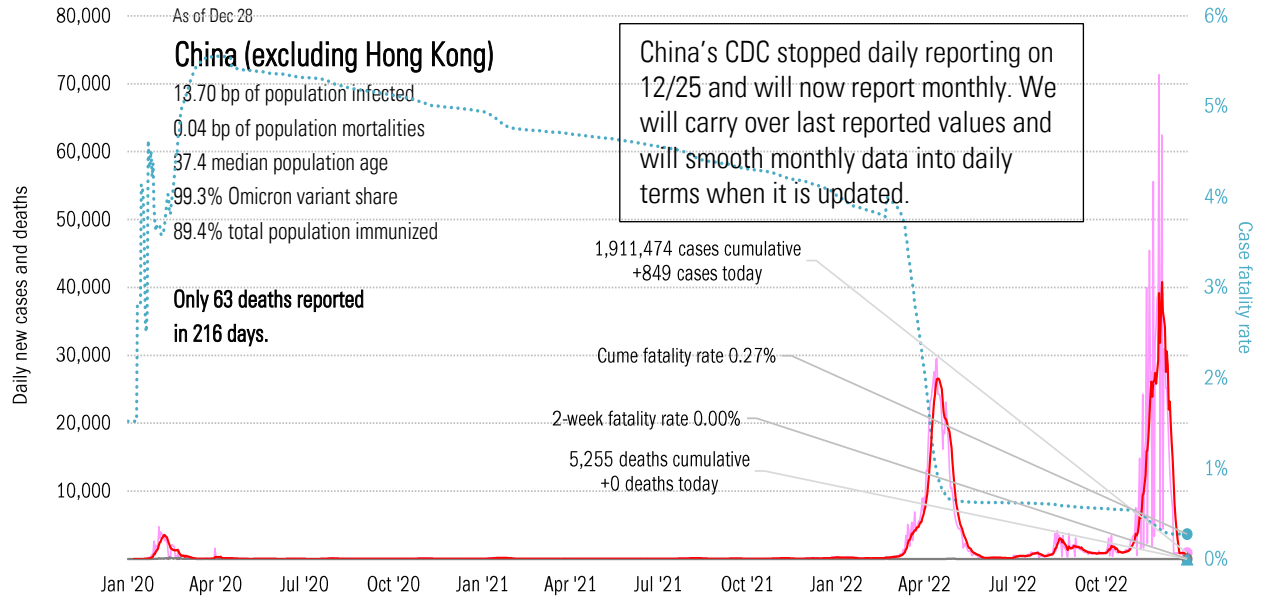
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

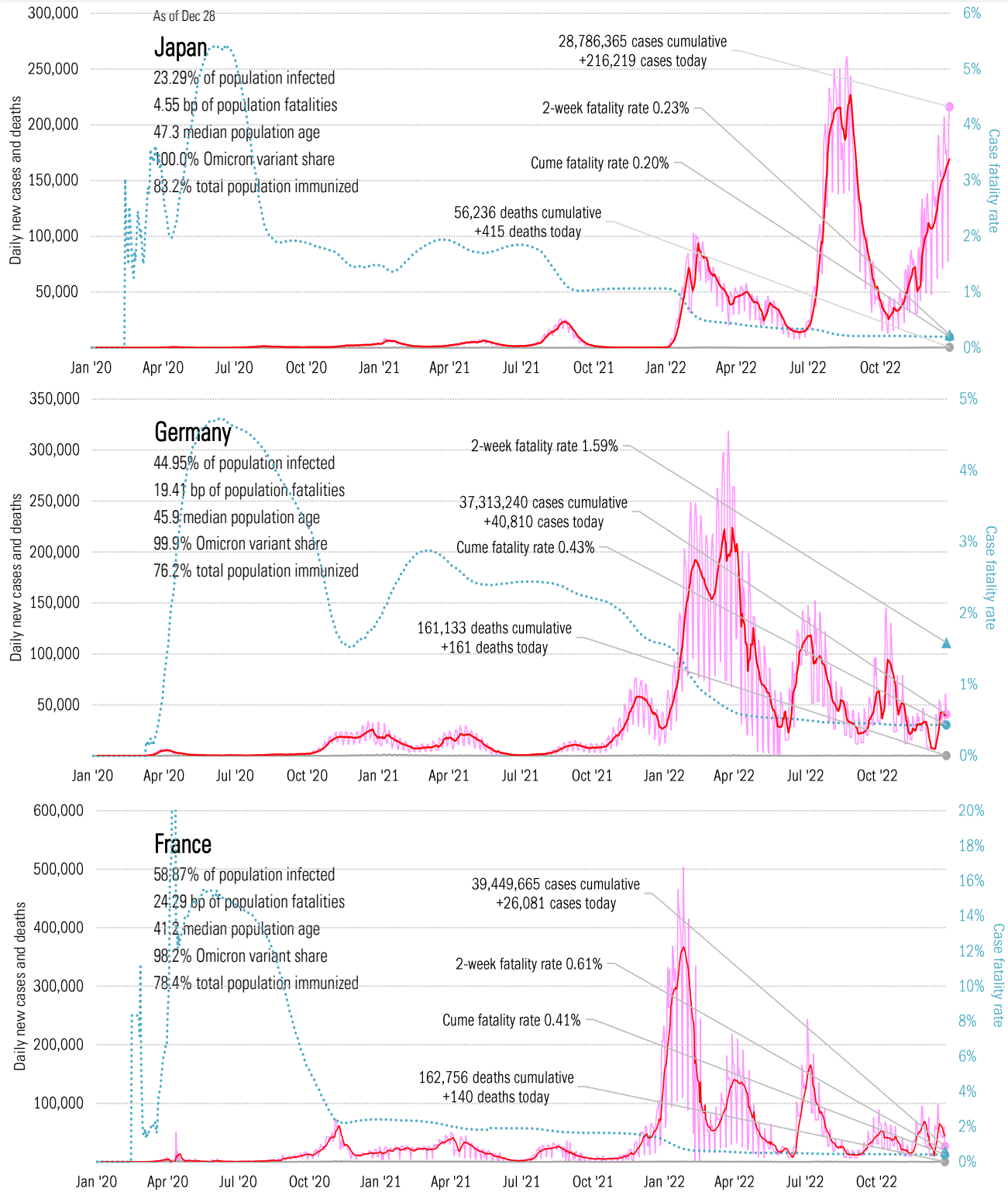
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

Cases: 7-day average and daily Deaths: Daily

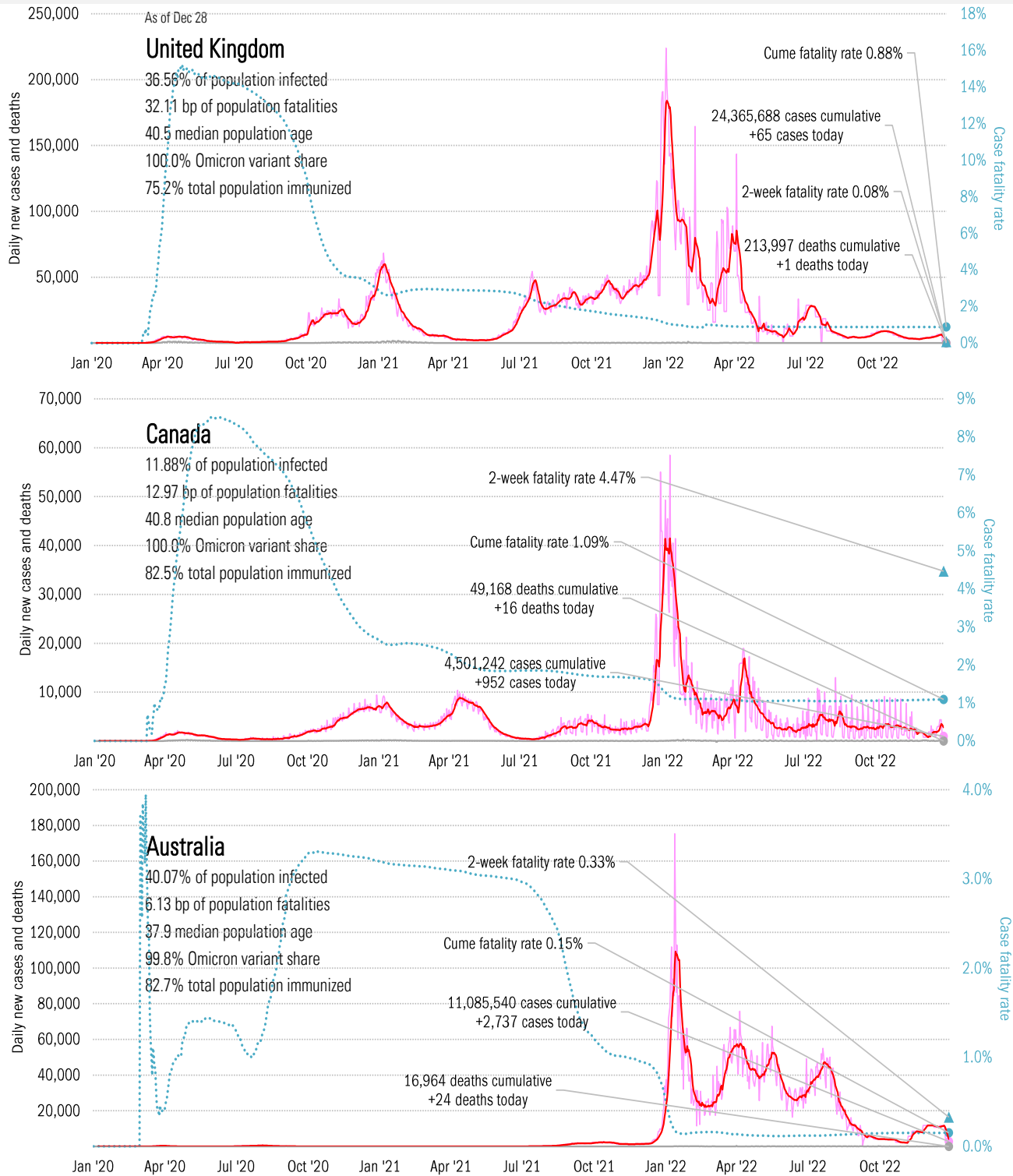


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in The Anglosphere

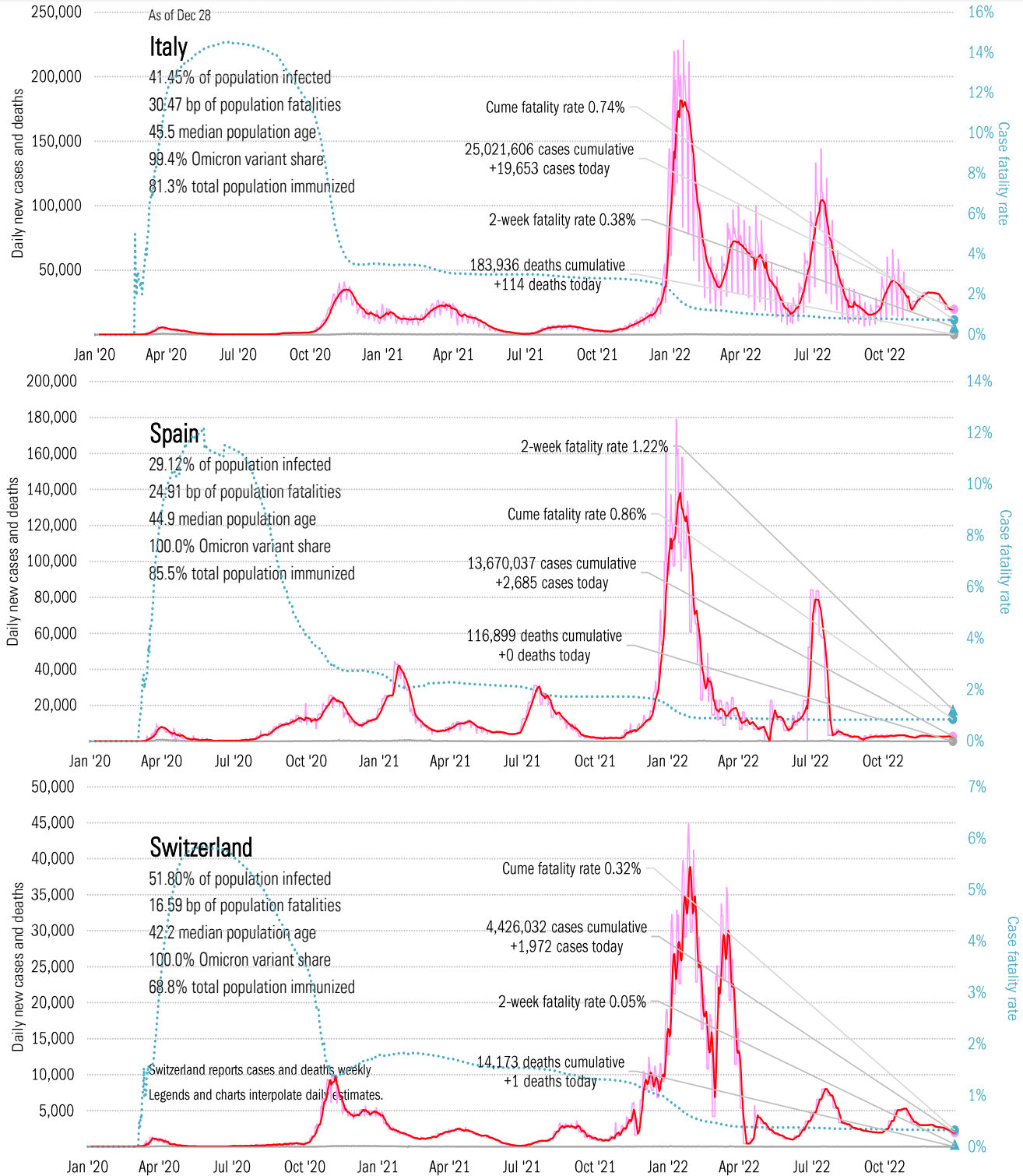
Cases: 7-day average and daily Deaths: Daily



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

# Impact in continental Europe

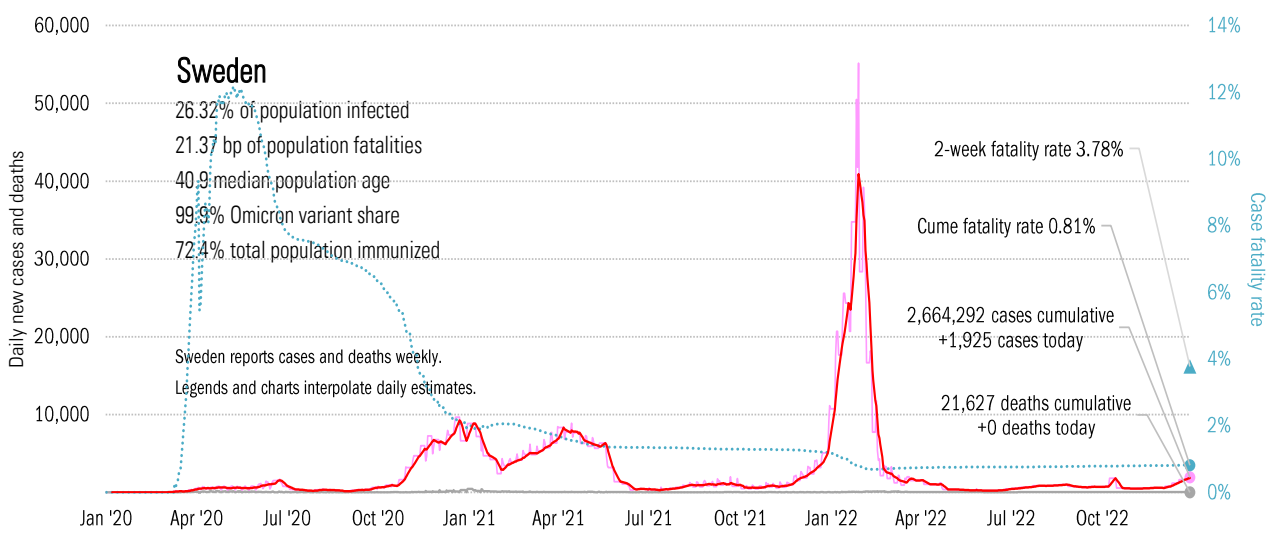
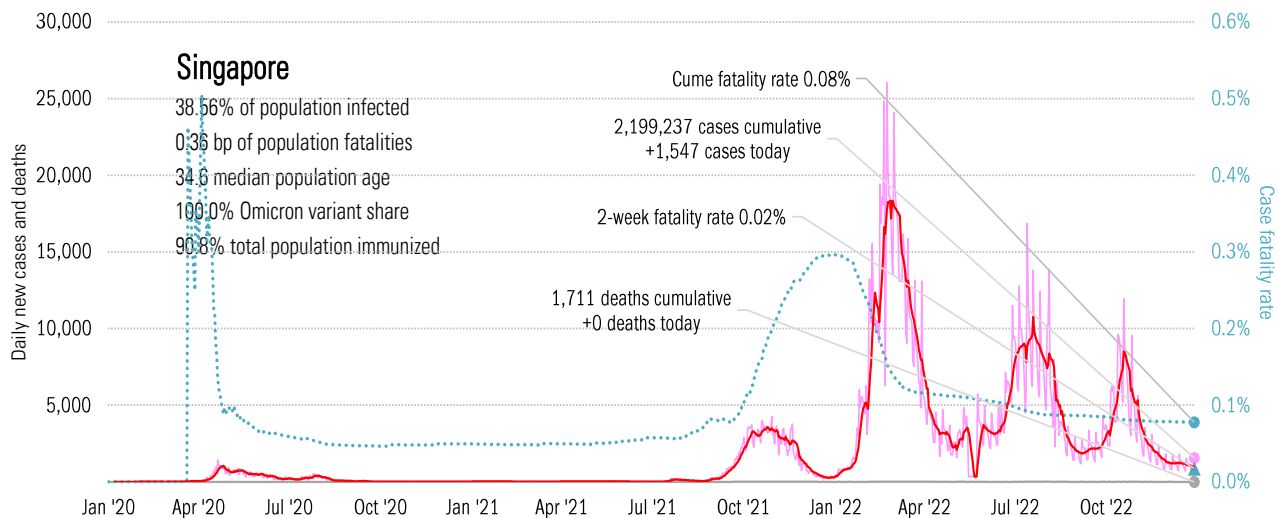
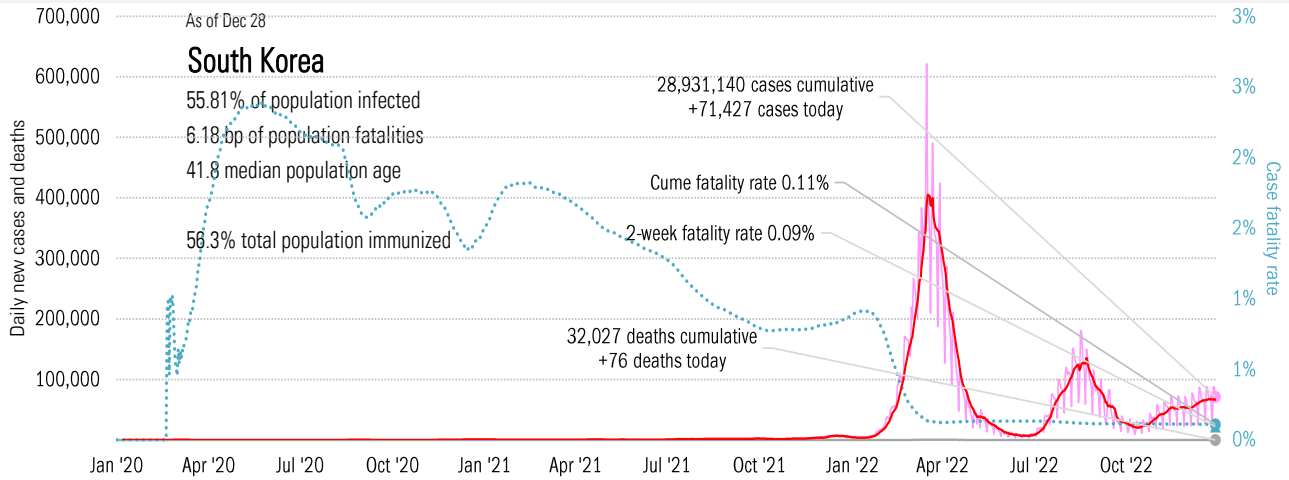
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

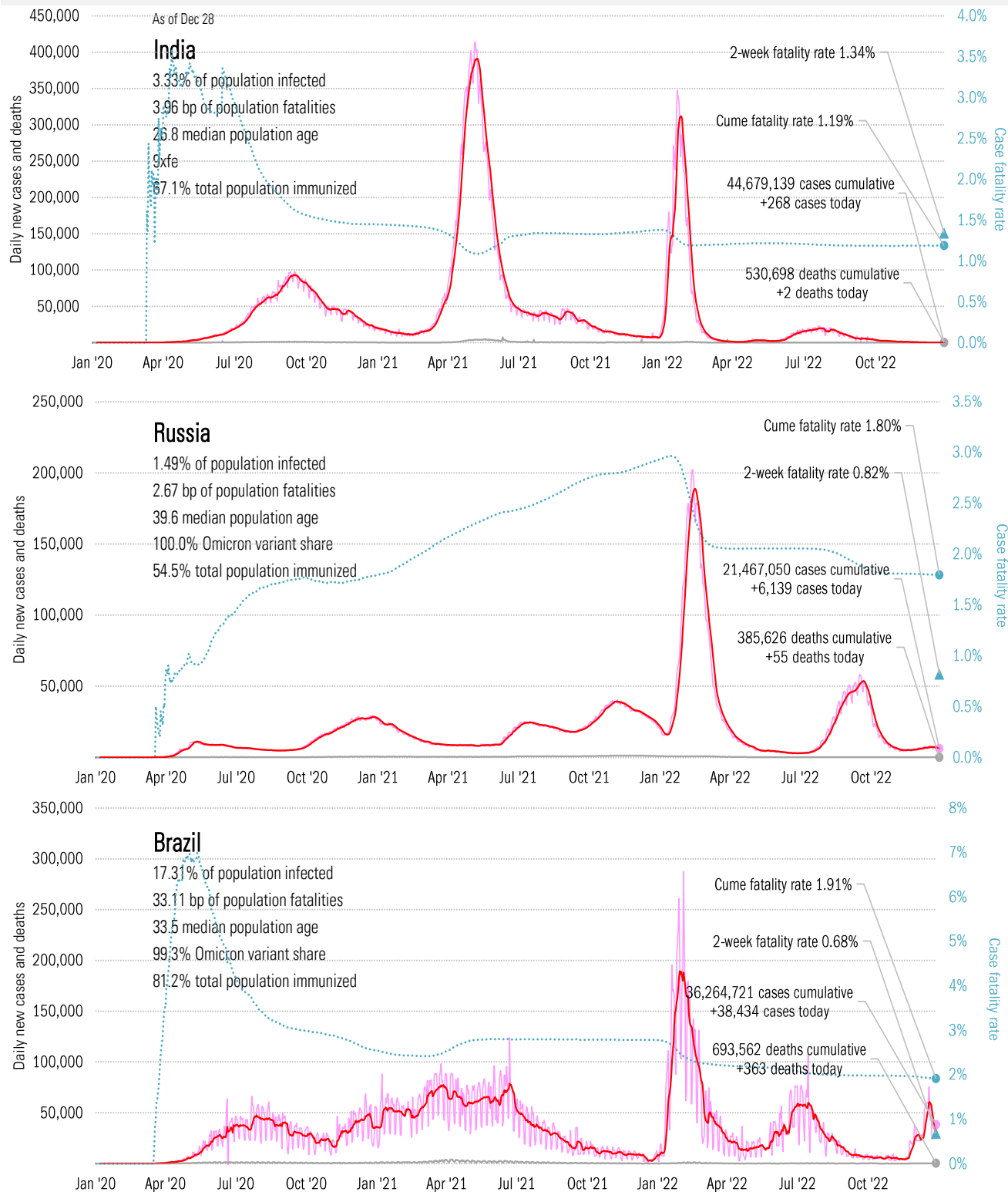
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

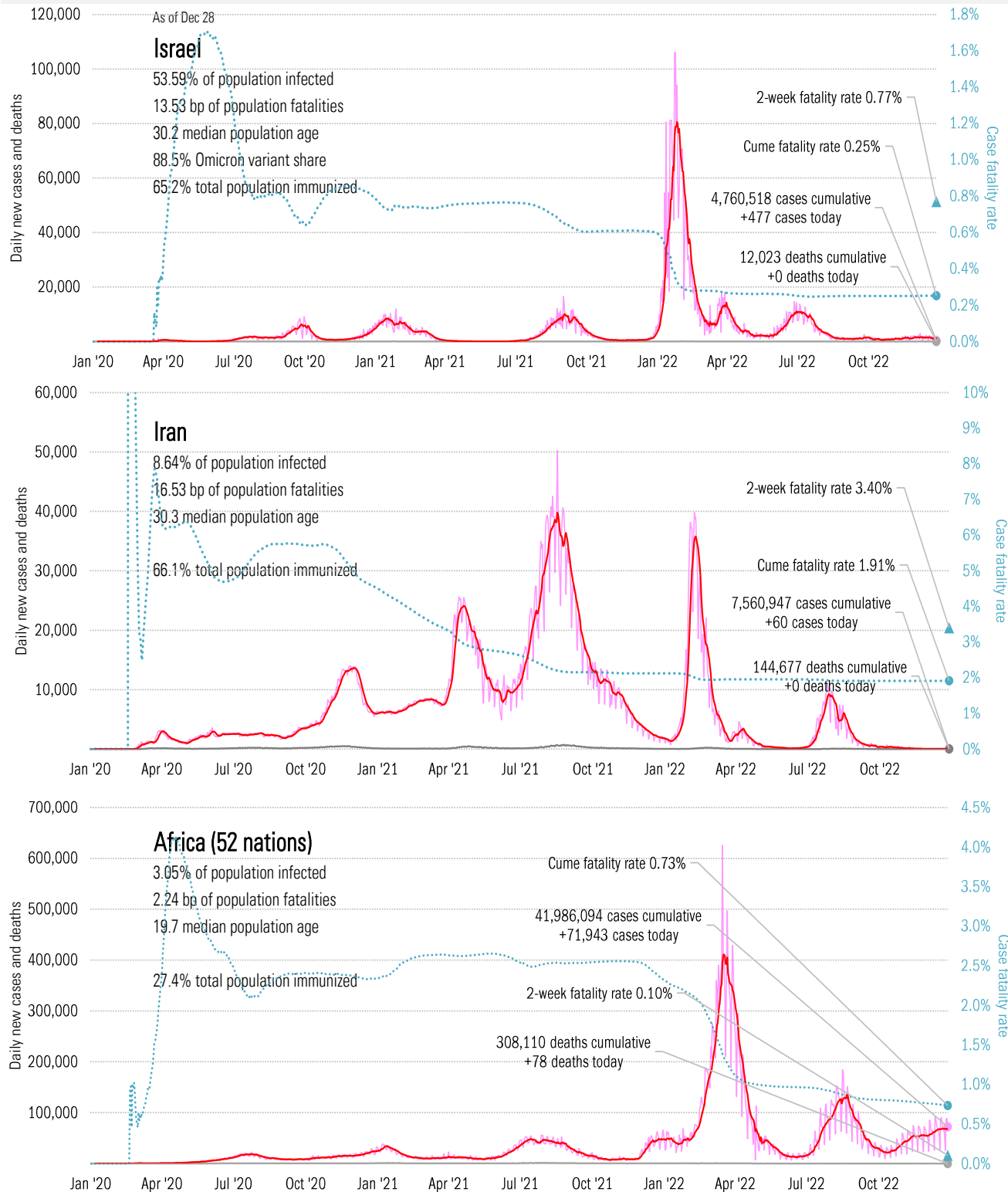
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

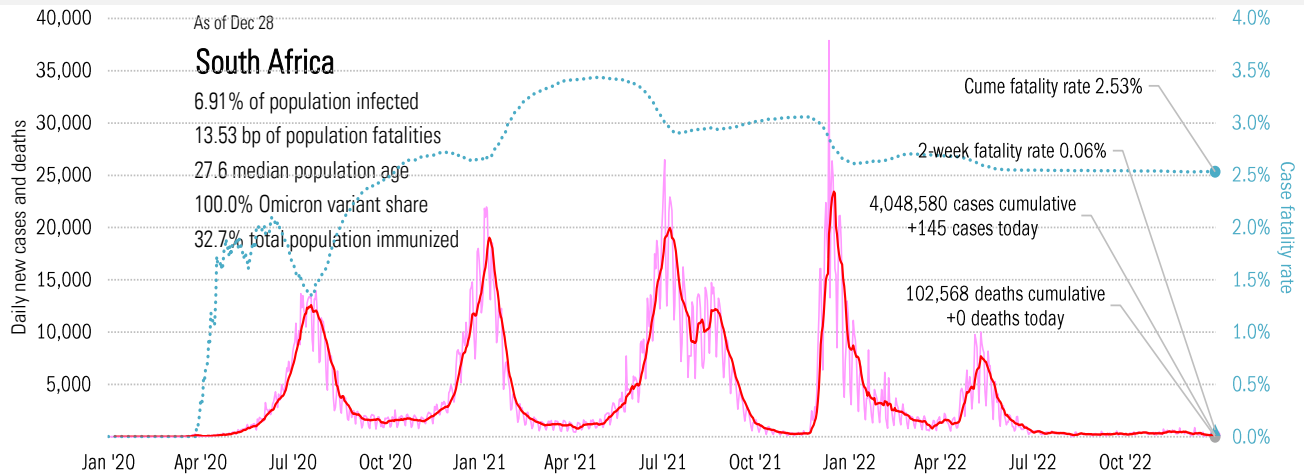
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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