

Data Insights: Covid-2019 Monitor

Saturday, December 31, 2022

The global scorecard

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

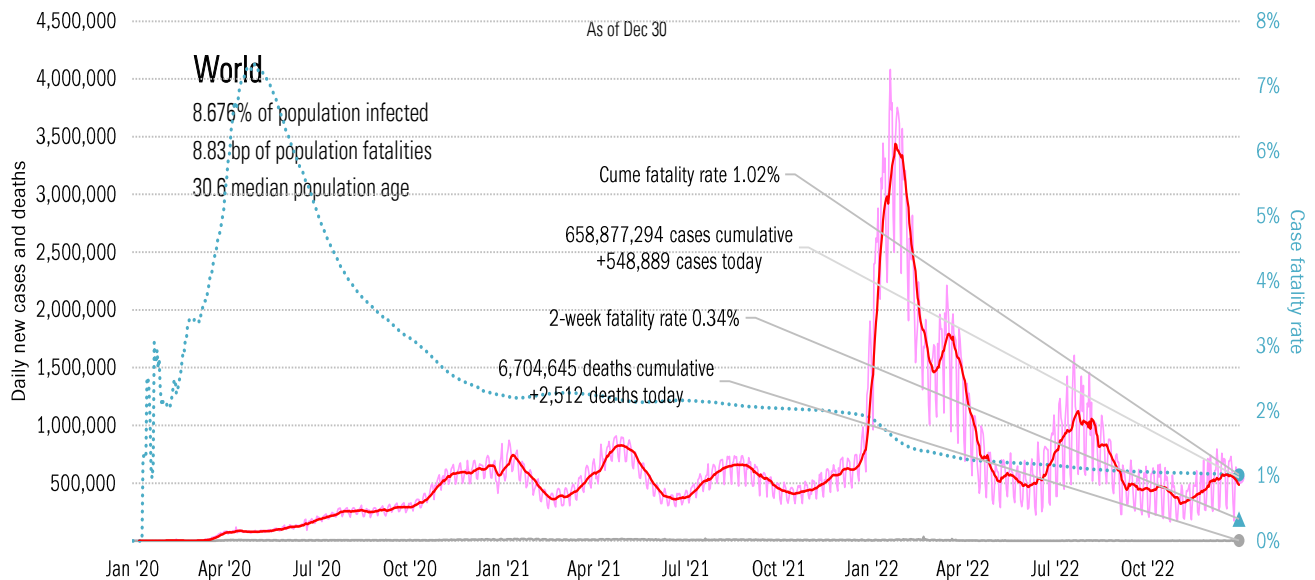
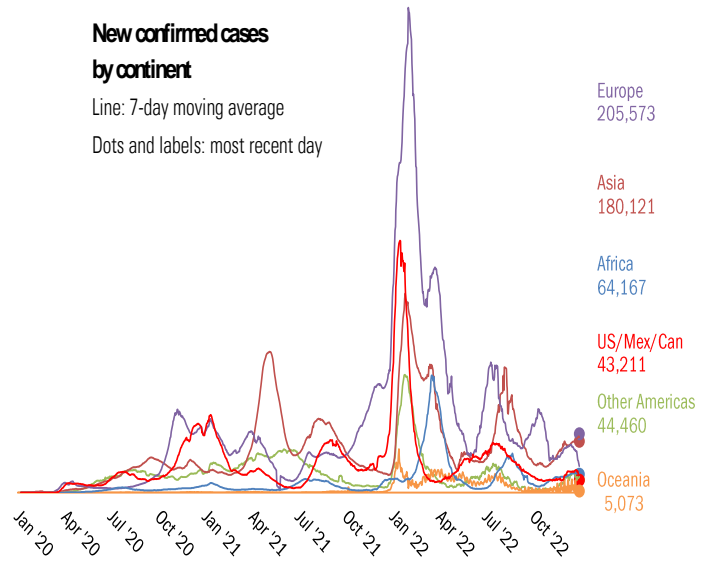
The worst ten countries

New cases		New Deaths	
Japan	148,784	United States	363
United States	64,312	Japan	326
Korea, South	62,926	Germany	144
Brazil	28,866	Brazil	119
Taiwan*	27,408	France	115
Germany	23,896	Italy	101
France	23,808	Korea, South	61
Italy	17,443	Russia	50
Ecuador	9,014	Taiwan*	34
China	7,204	Sweden	29
413,661		1,341	
World	548,889	World	2,512
Top ten	75%	Top ten	53%

New confirmed cases by continent

Line: 7-day moving average

Dots and labels: most recent day



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

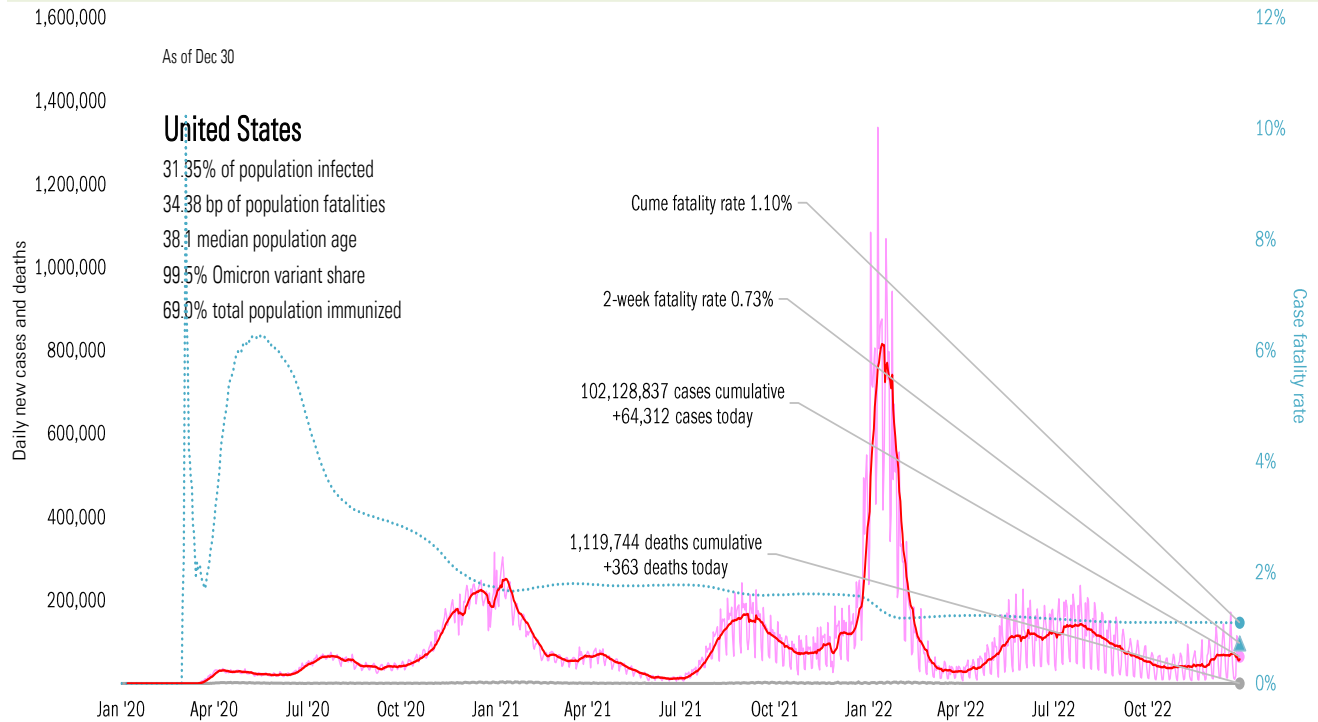
The ten worst US states

New cases			New deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
CA	9,012		NY	61		TX	615		CA	11,829,499		CA	98,637		TX	568,054		RI	88%	NH	90%
NY	7,680		NV	46		CA	887		TX	8,227,889		TX	91,818		CA	541,530		NH	88%	VT	89%
NJ	3,654		FL	43		FL	475		FL	7,338,503		FL	83,906		FL	513,523		WA	87%	TX	88%
FL	3,649		NJ	24		GA	247		NY	6,571,069		NY	75,139		NY	335,012		MA	87%	NM	87%
IL	3,288		CA	21		VA	213		IL	3,969,832		PA	48,892		CH	235,567		AK	85%	AK	86%
VA	2,435		IL	21		MA	235		PA	3,416,142		GA	41,417		GA	234,182		CR	85%	AL	86%
NC	2,382		AZ	21		MO	146		NC	3,316,814		CH	40,928		PA	220,150		MN	85%	ID	85%
TN	1,913		TX	21		SC	149		CH	3,307,568		MI	40,767		IL	203,838		MO	84%	NC	85%
CH	1,864		MD	14		AZ	151		MI	2,988,654		IL	40,678		MI	174,883		MD	83%	MA	85%
AR	1,820		PA	13		CT	147		GA	2,985,193		NJ	35,510		NJ	153,073		WV	82%	KY	84%
37,697			284			3,265			53,951,163			597,692			3,179,812						
All states	64,312			363			6,921		All states	102,128,837			1,119,744			5,772,600		All states	70%		67%
Top ten	59%			78%			47%		Top ten	54%			55%			55%		Median	78%		78%

Some states not reporting

Five most improved US states

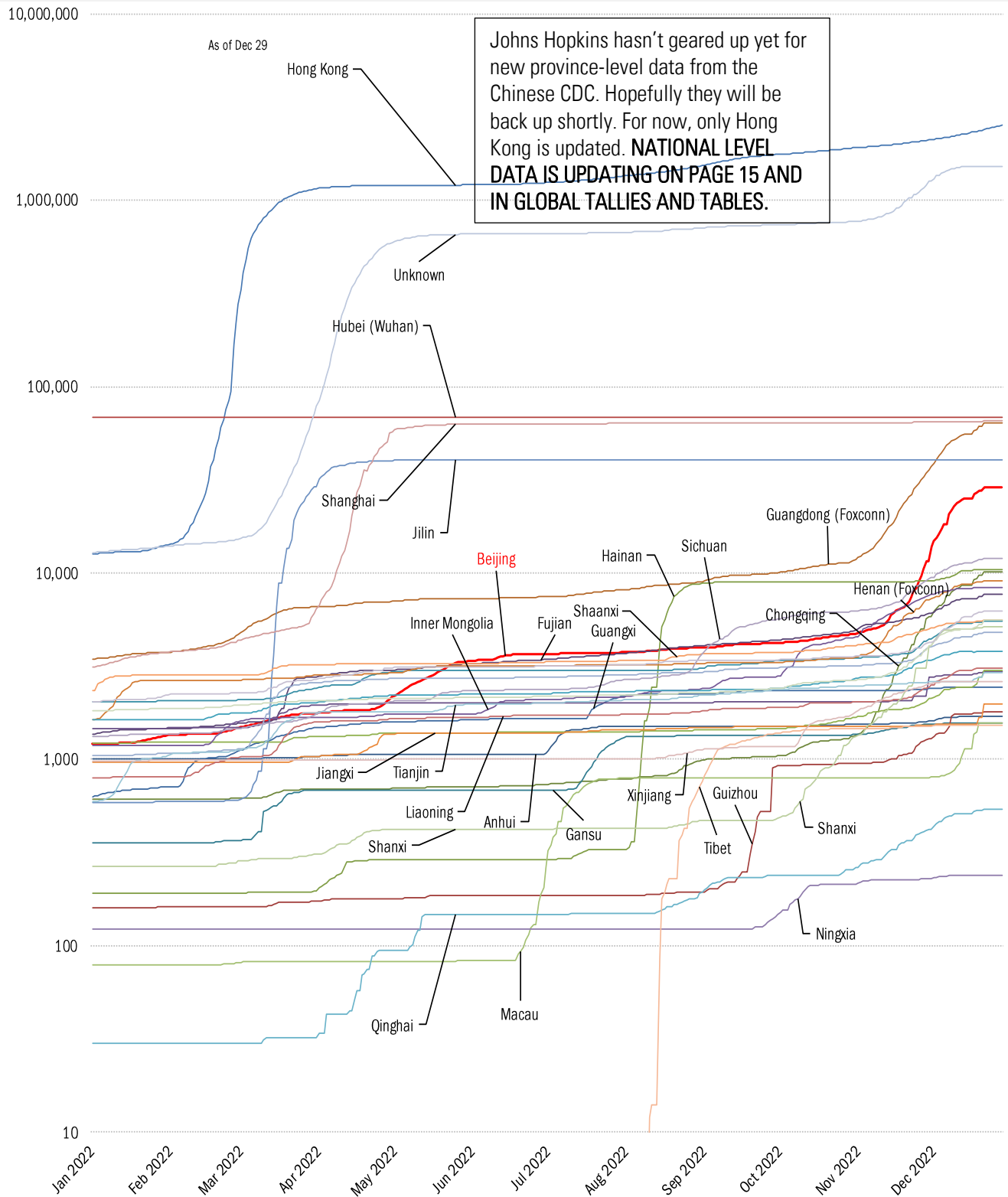
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
CA	-3,655	CA	-137	WI	-35
FL	-3,270	MA	-21	MD	-27
TX	-1,233	NY	-13	NC	-18
KS	-225	NM	-9	KS	-13
MD	-119	WI	-8	DC	-9



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"

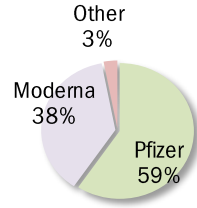


Source: [Johns Hopkins](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered Doses	Cumulative			Today	Immunity	Full	Partial
	680,393,511			+0.244 million	US	69.0%	80.8%
				Of which boosters:	UK	75.2%	79.7%
				+0.214 million	France	78.4%	80.6%
	One dose	% Pop	Immune	% pop	New immune today		
Total population	276,758,611	83%	235,944,128	71%	+0.021 million	Spain	85.5% 86.9%
Age 12 to 17	18,413,123	73%	15,763,488	62%	+0.001 million	Germany	76.2% 77.8%
Age 18 to 64	184,058,504	90%	156,476,533	77%	+0.013 million	Italy	81.3% 86.2%
Age 65 and over	60,960,848	100%	53,388,685	97%	+0.004 million	Australia	82.7% 84.9%
						Israel	65.2% 71.1%
						Canada	82.5% 90.0%
						Japan	83.2% 84.3%
						Africa	27.5% 33.5%
						India	67.1% 72.5%
						Brazil	81.2% 87.6%
						China	89.4% 91.7%



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

AK
72.8%
64.9%

"Immunity" = two doses

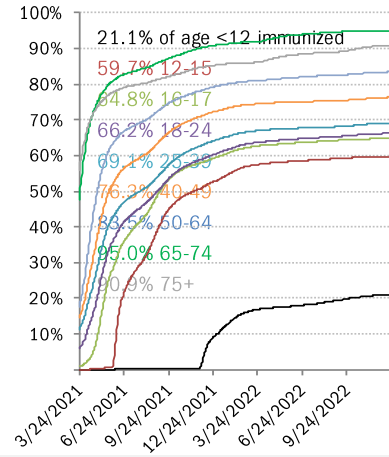
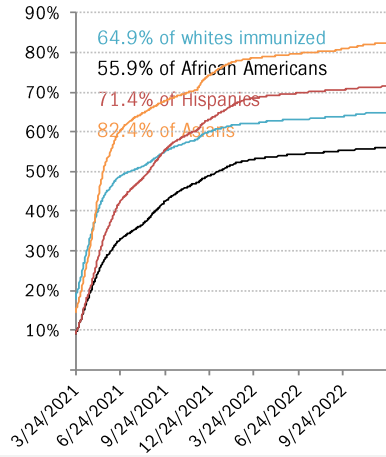
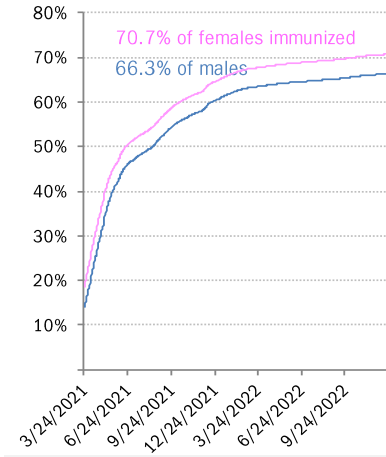
WI
74.9%
68.0%

As of Dec 30

ME
95.0%
83.0%

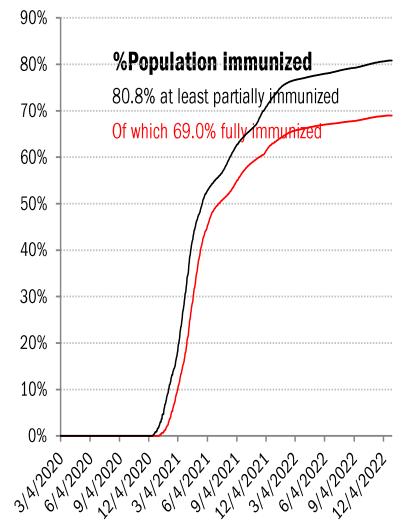
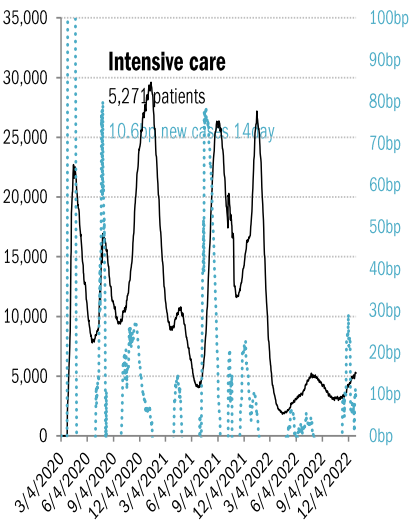
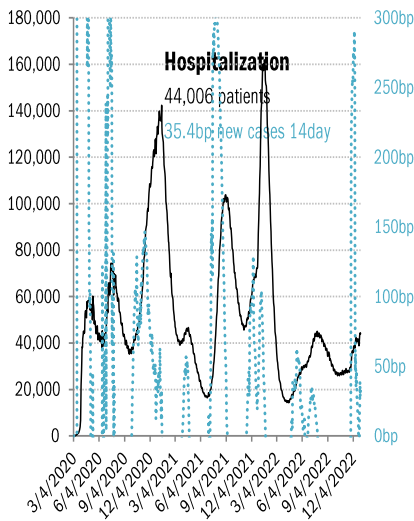
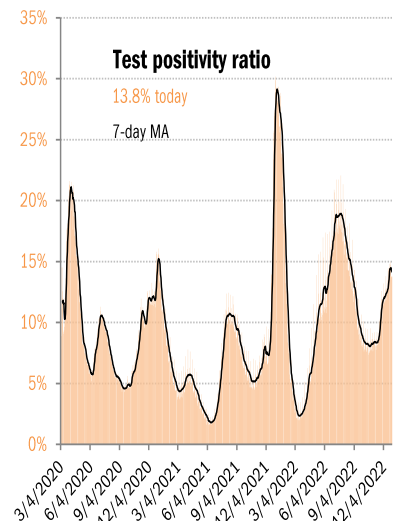
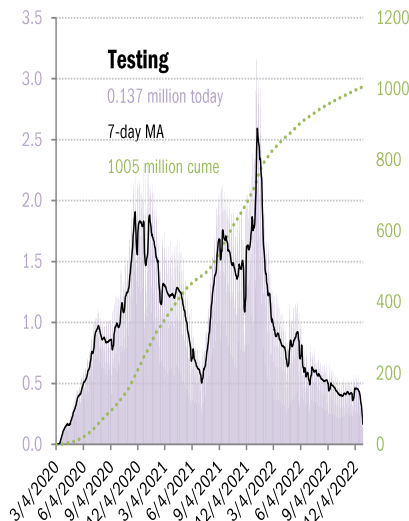
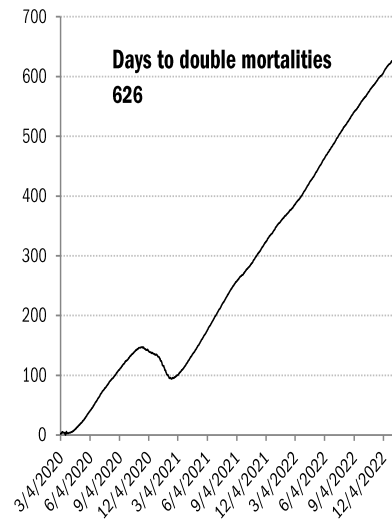
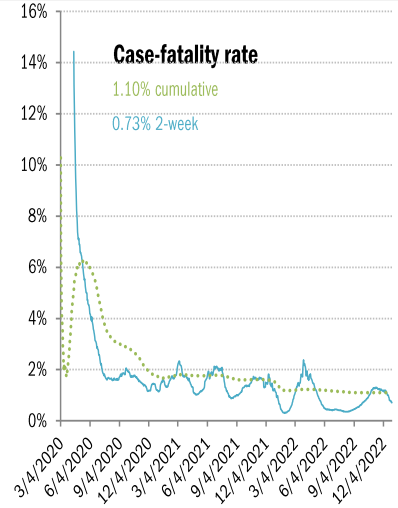
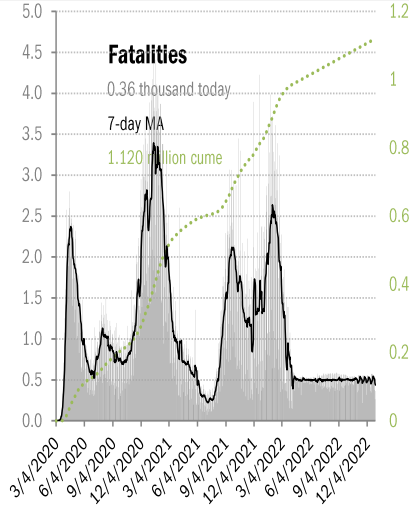
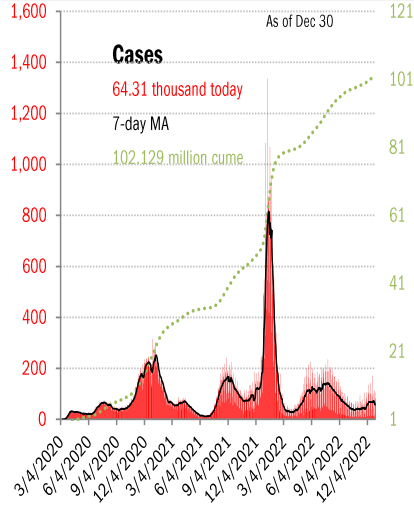
WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
84.9%	63.7%	68.0%	69.1%	78.5%	78.9%	69.3%	94.1%	95.0%	87.5%	
75.7%	56.3%	59.0%	58.4%	71.9%	71.0%	62.2%	80.5%	85.3%	71.5%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.2%	77.3%	60.7%	83.4%	70.4%	64.2%	65.5%	90.1%	94.3%	95.0%	
72.1%	63.5%	52.9%	66.0%	64.2%	57.6%	60.3%	72.9%	78.8%	83.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
84.3%	75.0%	83.3%	73.1%	69.1%	68.6%	67.3%	90.6%	91.3%	95.0%	95.0%
74.4%	66.5%	73.2%	66.0%	58.8%	59.4%	59.6%	76.3%	79.4%	82.8%	87.4%
AZ	NM	KS	AR	TN	NC	SC	DC	DE		
77.1%	93.8%	75.9%	69.6%	64.3%	91.6%	70.7%	95.0%	87.7%		
65.8%	74.9%	65.0%	56.7%	56.2%	66.8%	59.7%	85.3%	72.9%		
OK	LA	MS	AL	GA						
74.3%	62.7%	61.5%	64.8%	68.1%						
60.2%	54.9%	53.6%	53.0%	57.1%						
TX										
76.0%										
63.0%										
HI										
91.1%										
81.3%										
FL										
82.1%										
69.2%										
PR										
95.0%										
86.7%										

The demographics of US vaccination

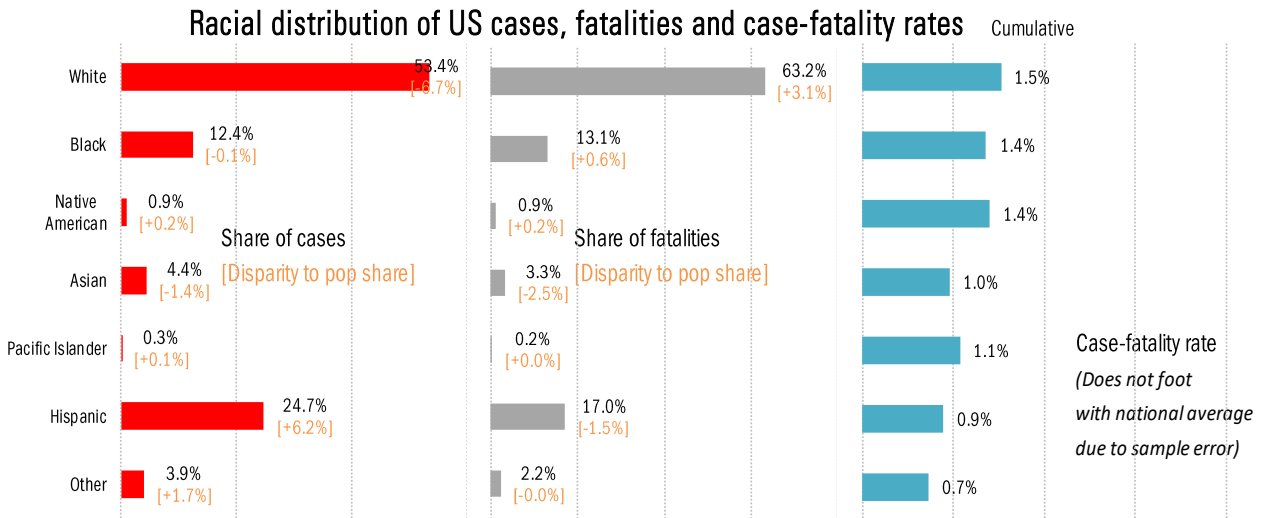
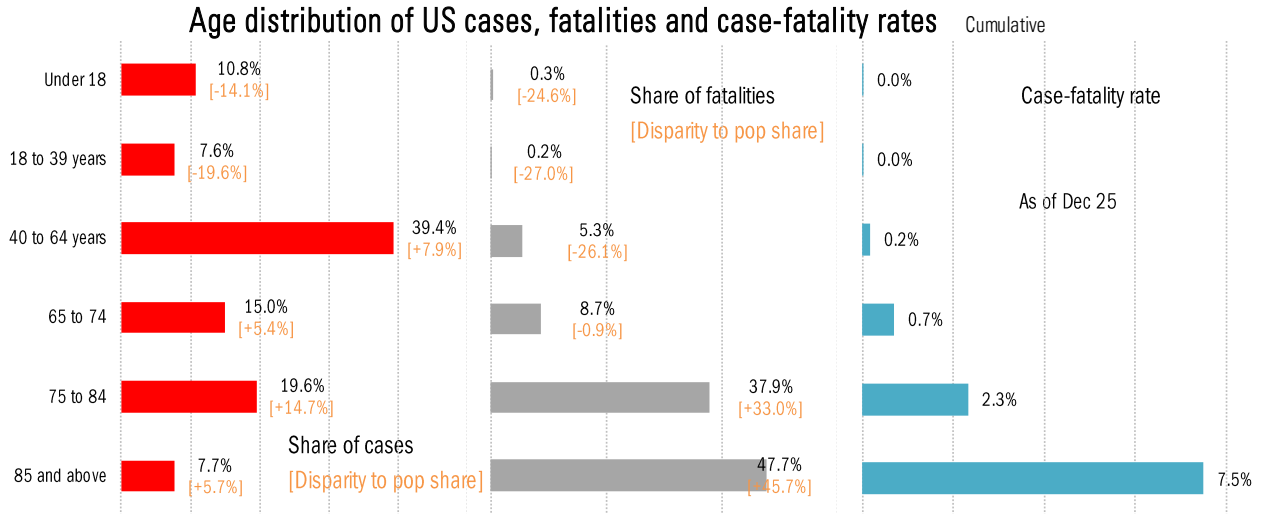


Source: CDC, CDC, Our World in Data, TrendMacro calculations

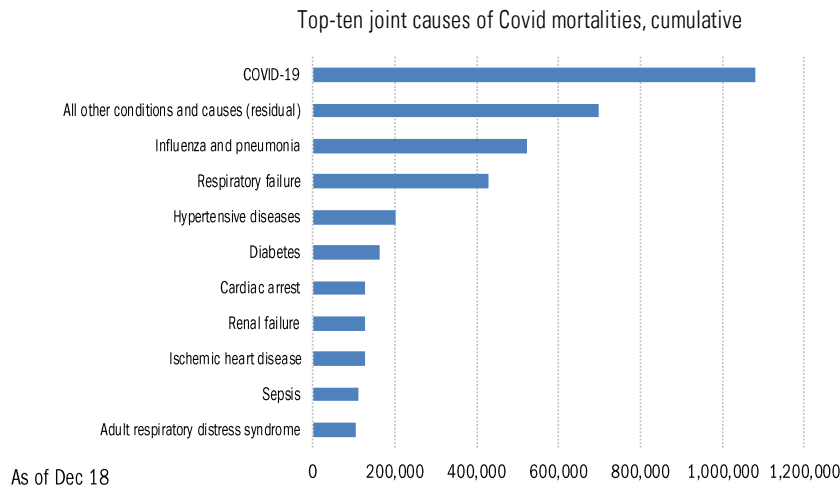
US deep-dive



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



Comorbidities



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

[Highly immune evasive omicron XBB.1.5 variant is quickly becoming dominant in U.S. as it doubles weekly](#)

Spencer Kimball
NBC News
December 30, 2022

[Covid Is China's Price for Rejoining Humanity](#)

Holman W. Jenkins, Jr.
Wall Street Journal
December 30, 2022

[Medicare Keeps Spending More on COVID-19 Testing. Fraud and Overspending Are Partly Why.](#)

Anjeanette Damon
Pro Publica
December 30, 2022

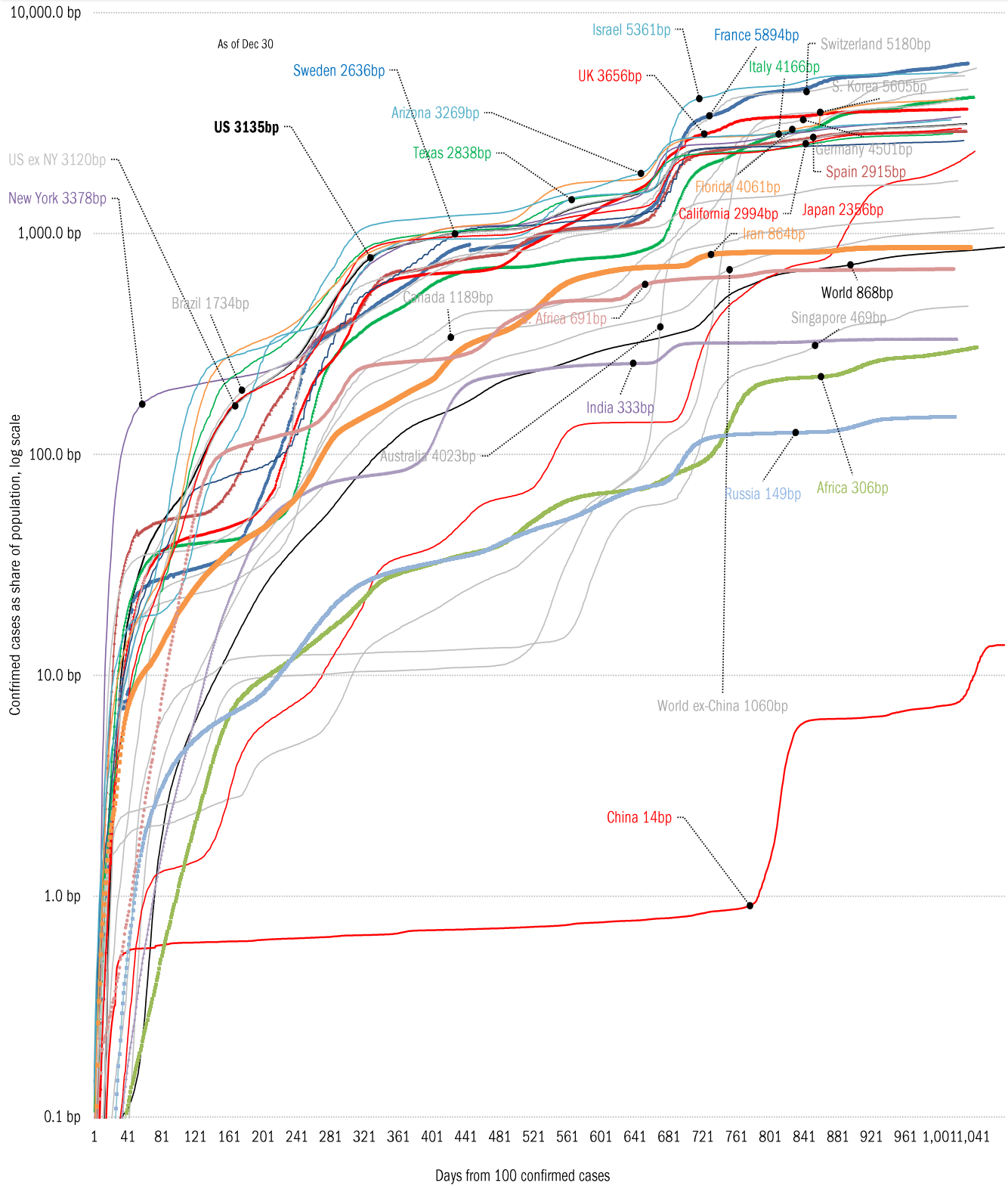
Meme of the Day



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

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

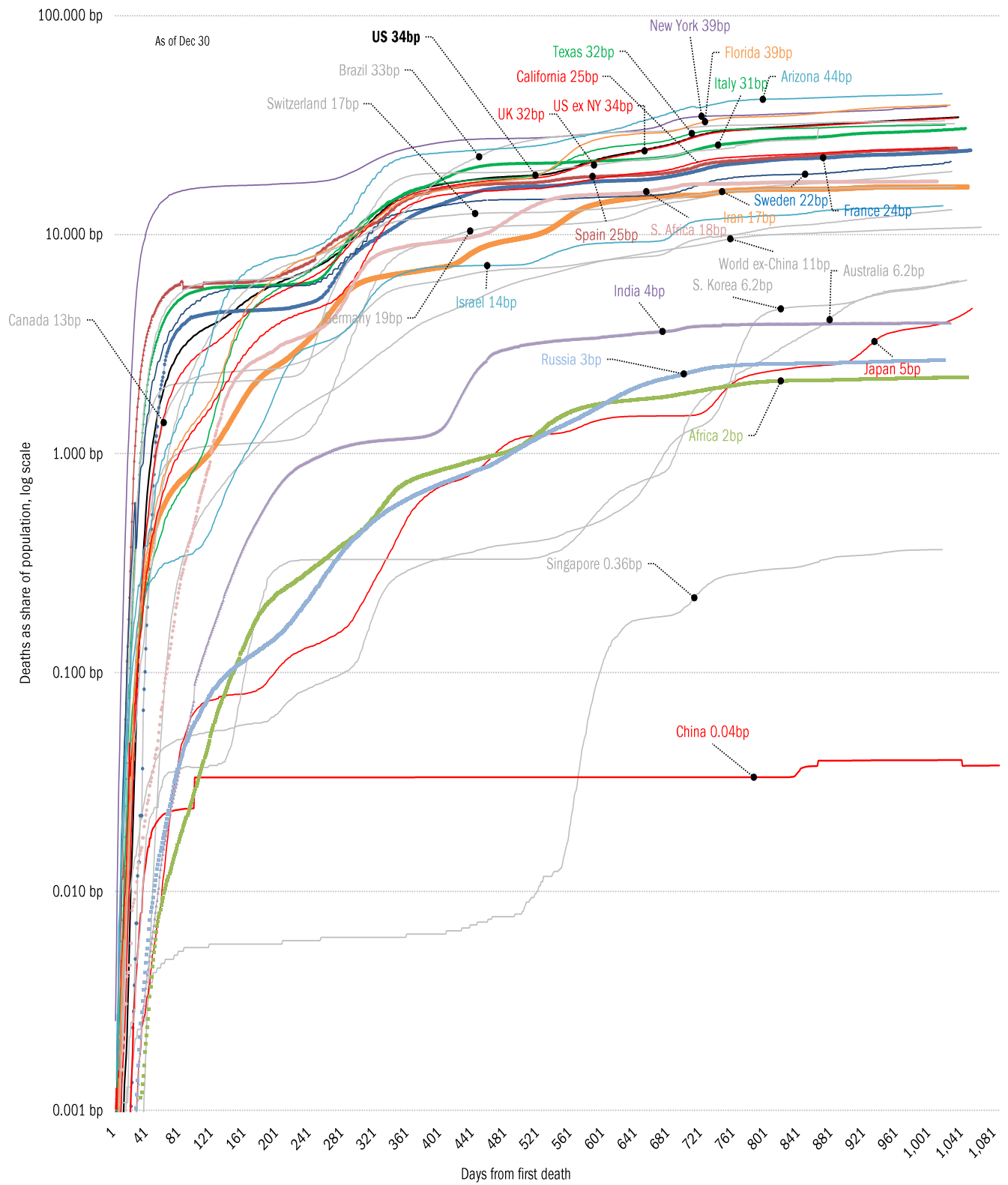
Share of infected population from first day with 100 confirmed cases, log scale



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

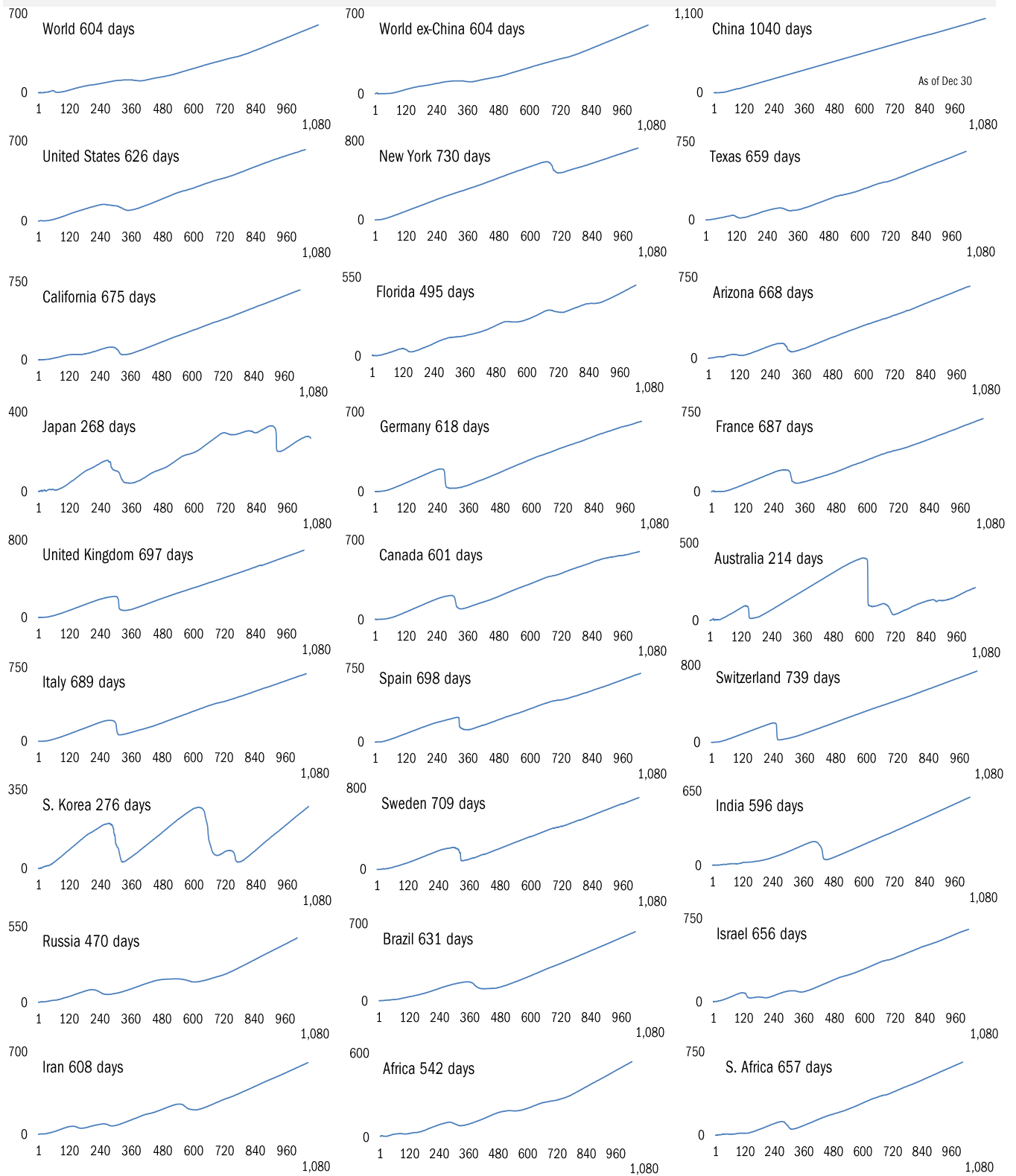


Source: [Johns Hopkins](#), TrendMacro calculations

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

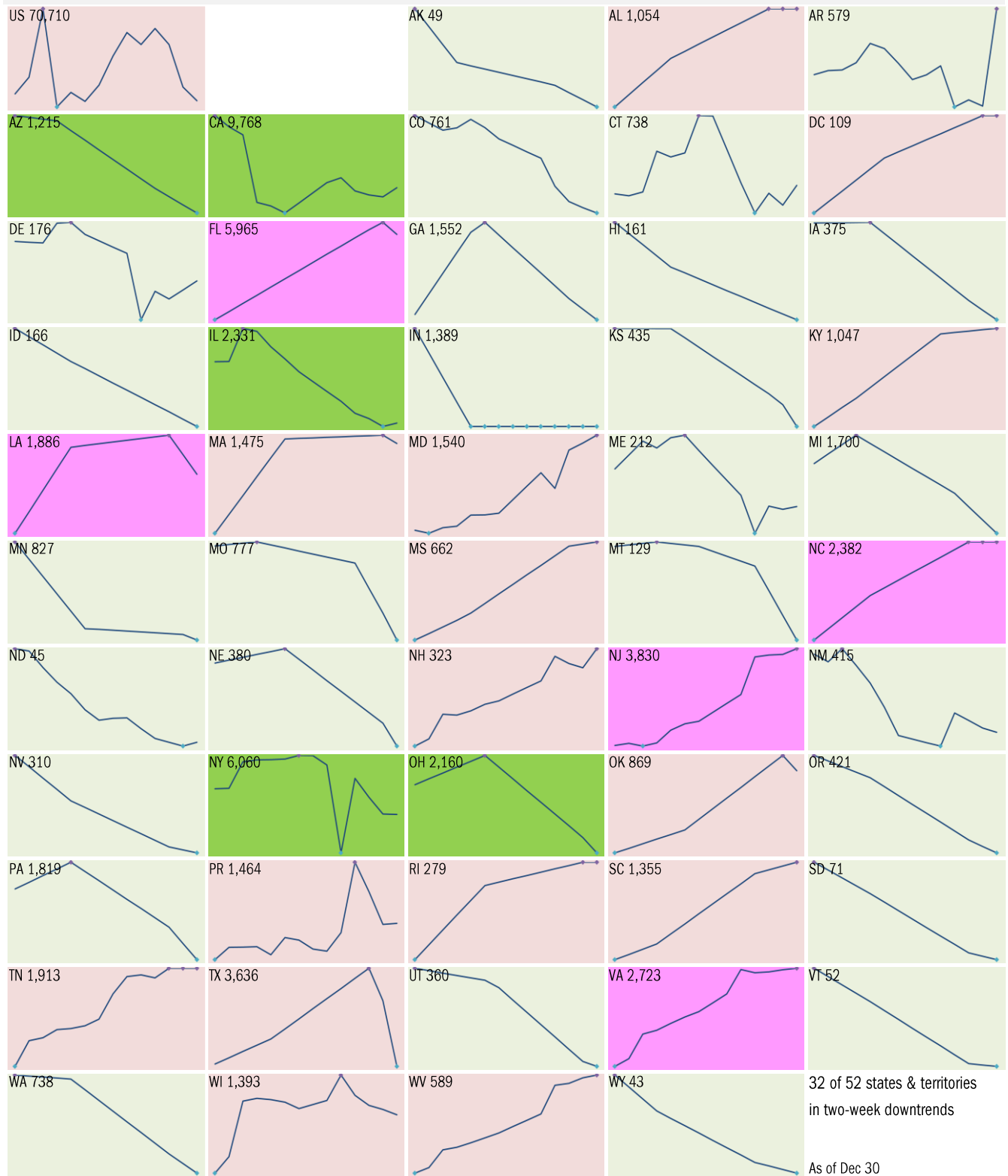


Source: [Johns Hopkins](#), TrendMacro calculations

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

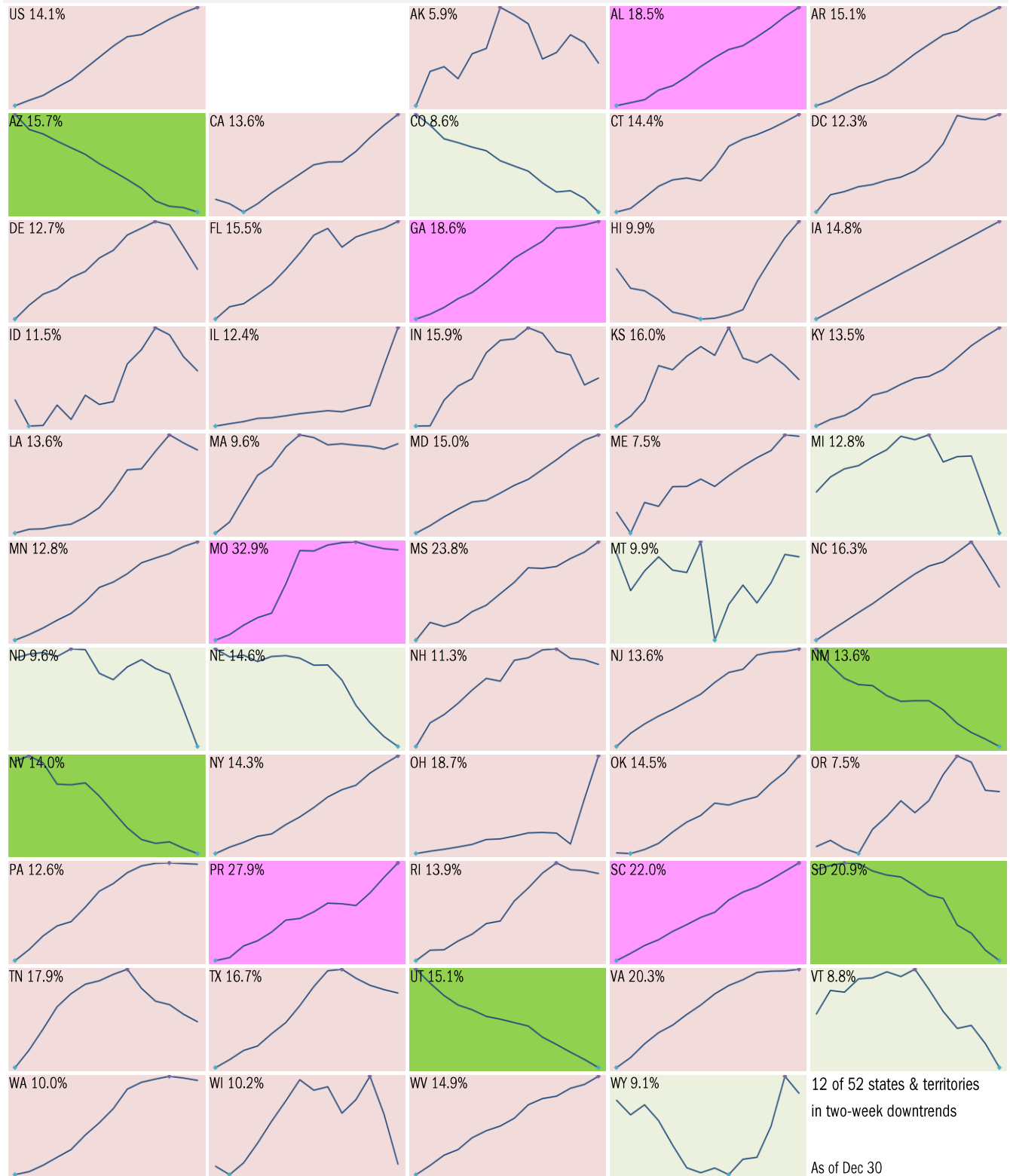


Source: [Johns Hopkins](#), TrendMacro calculations

14-day trajectory in test-positivity ratio

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

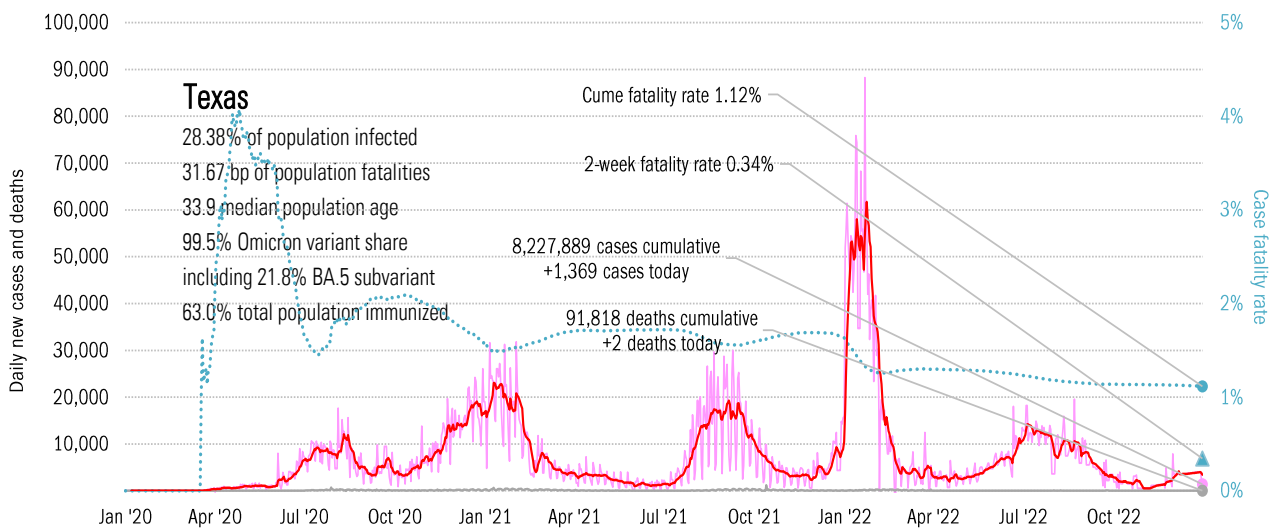
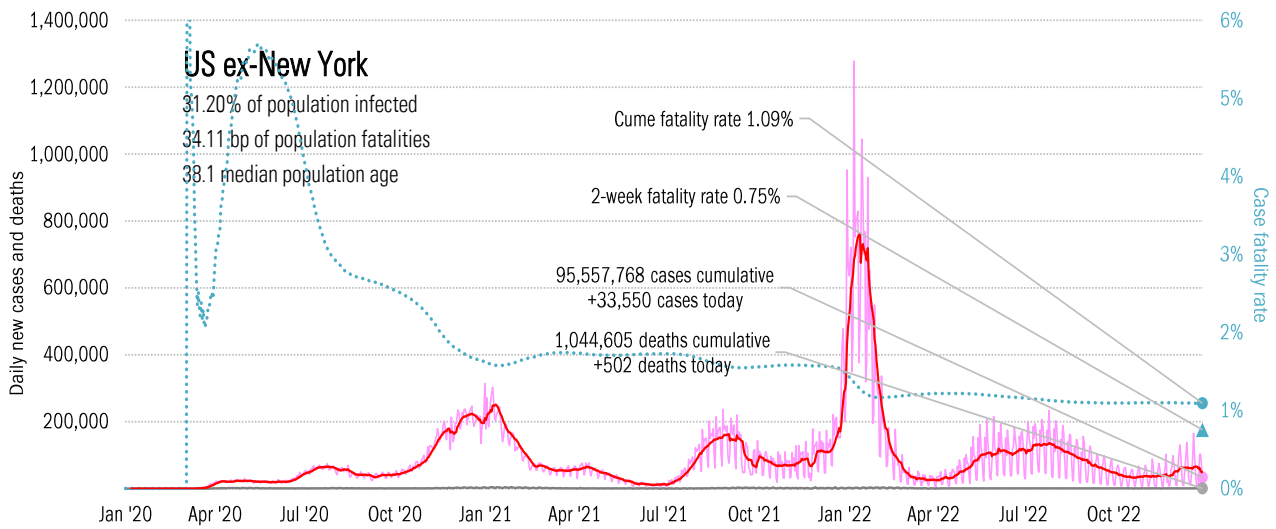
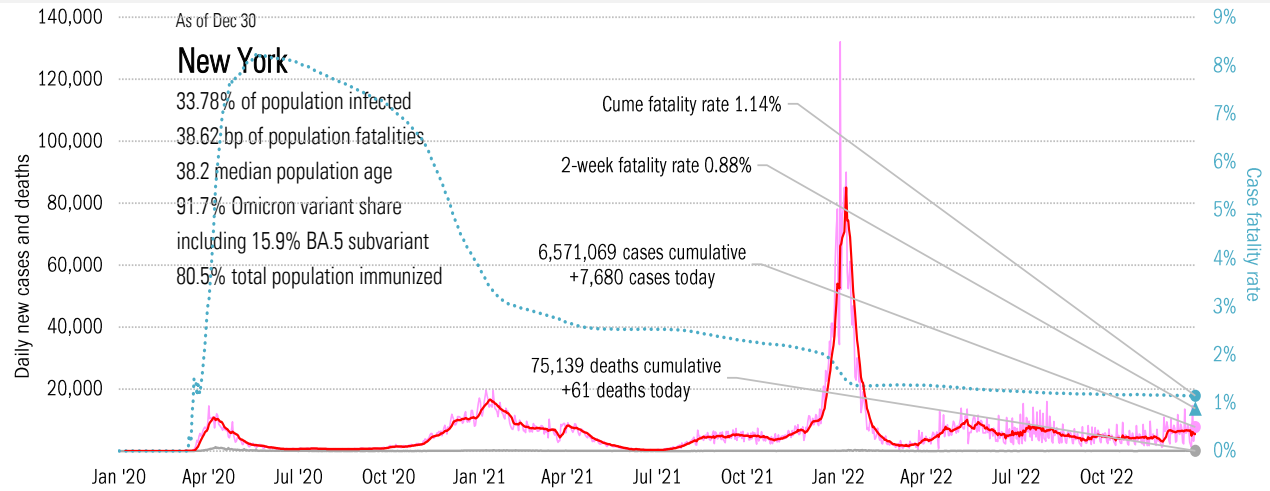
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

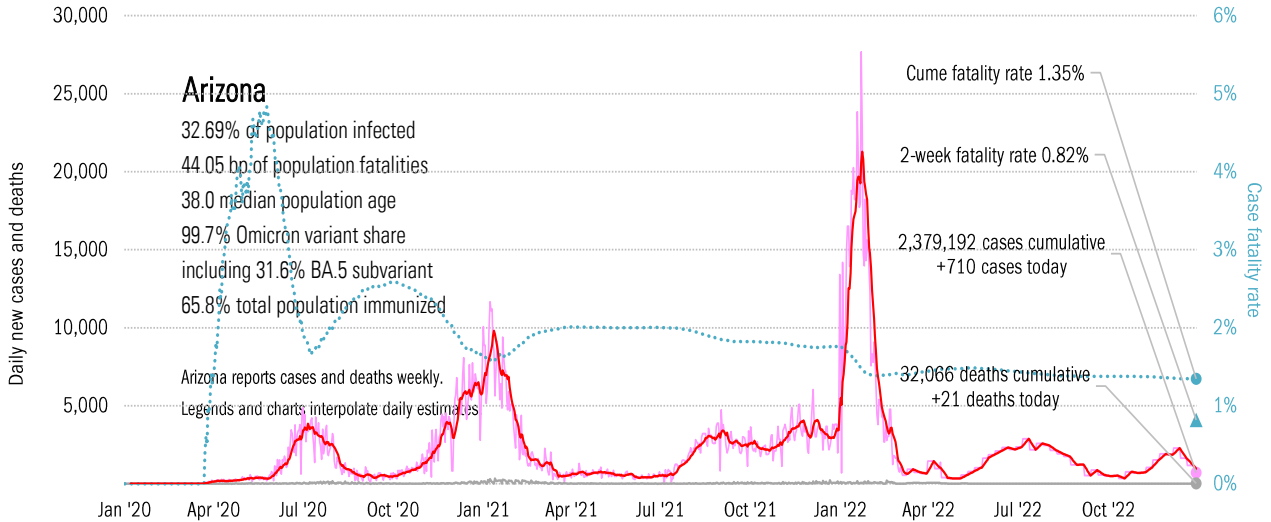
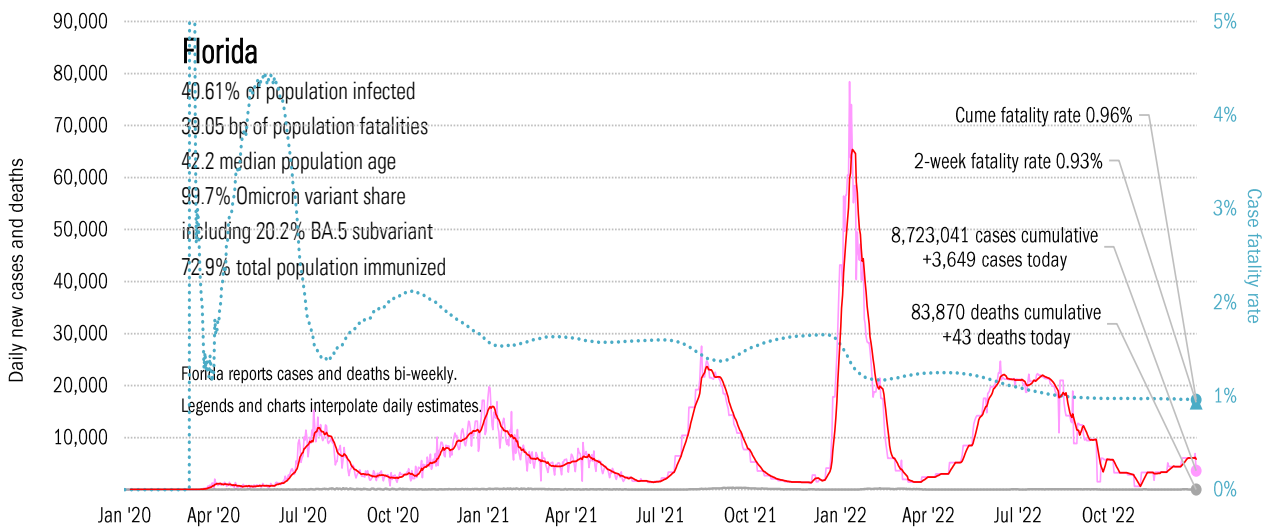
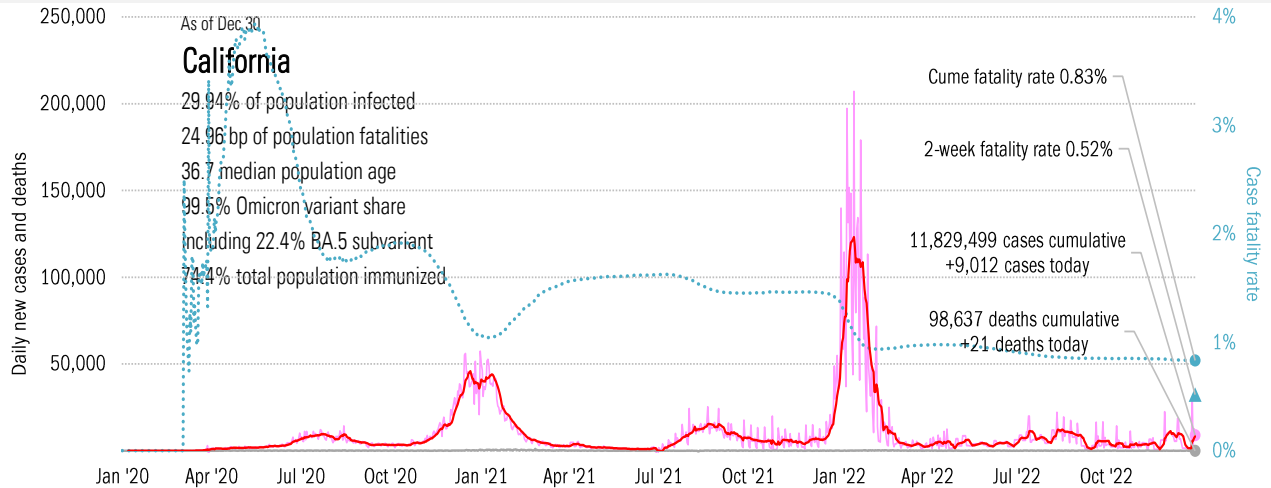
Cases: 7-day average and daily Deaths: Daily



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

The sun-belt hot-spot states

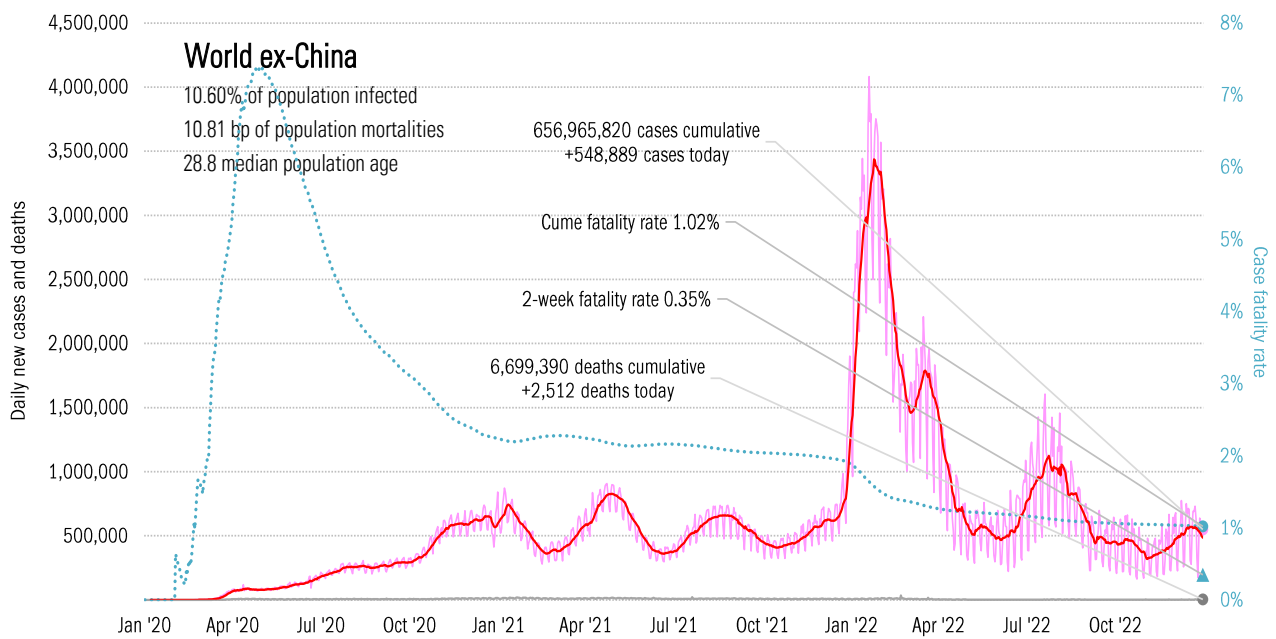
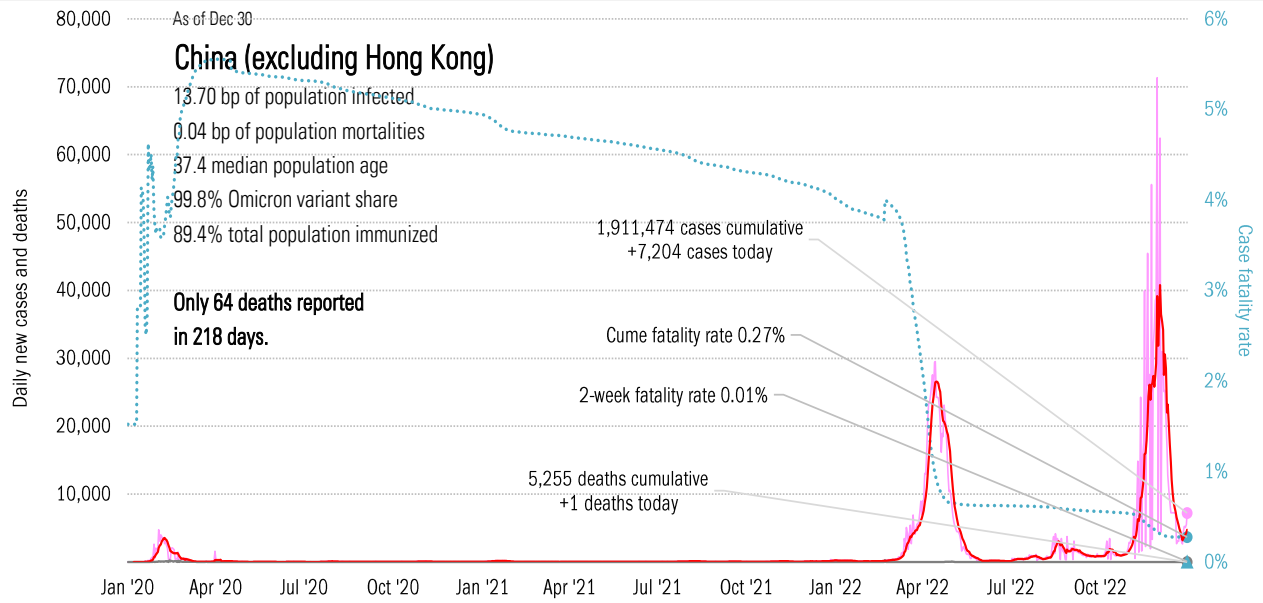
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

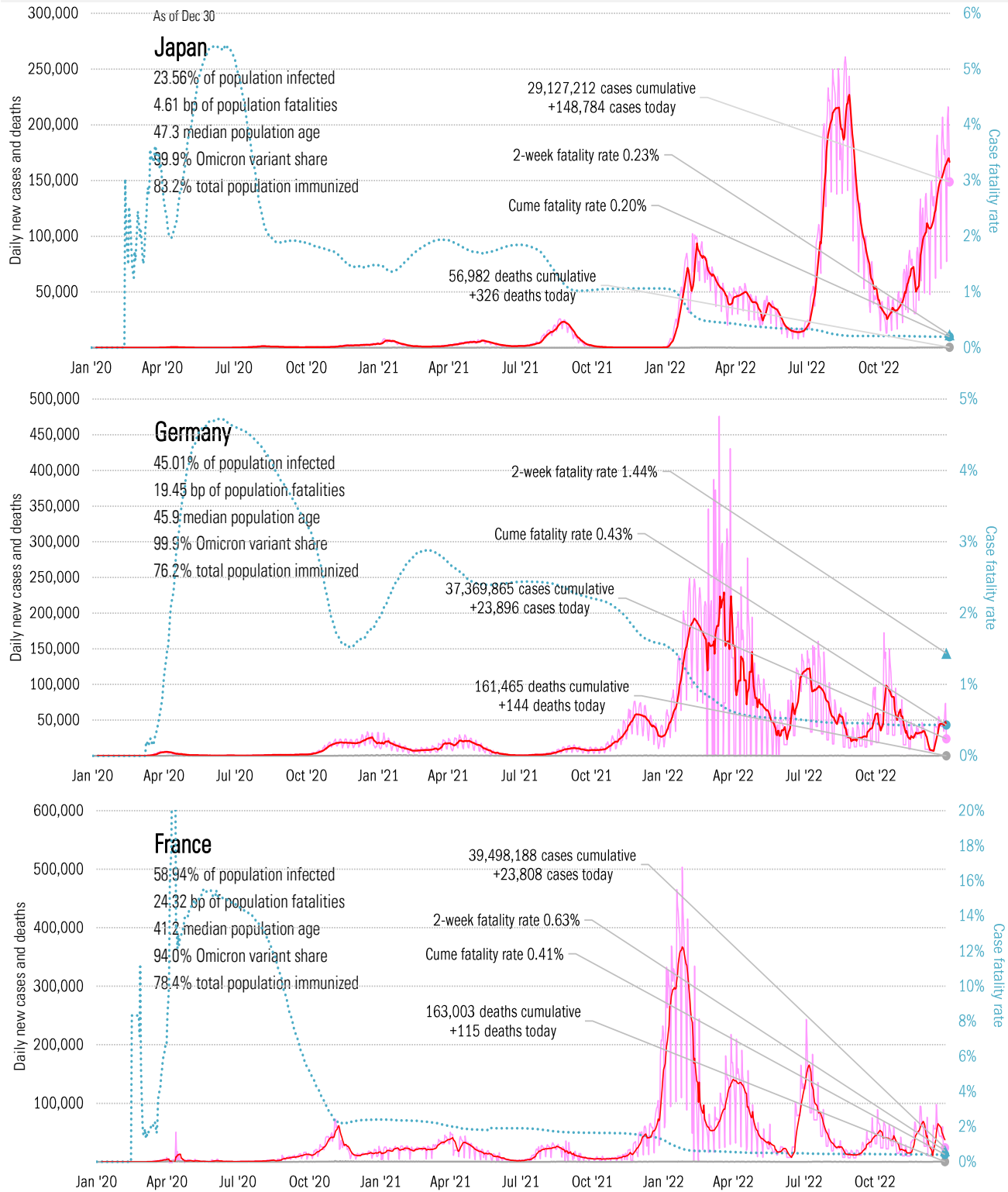
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

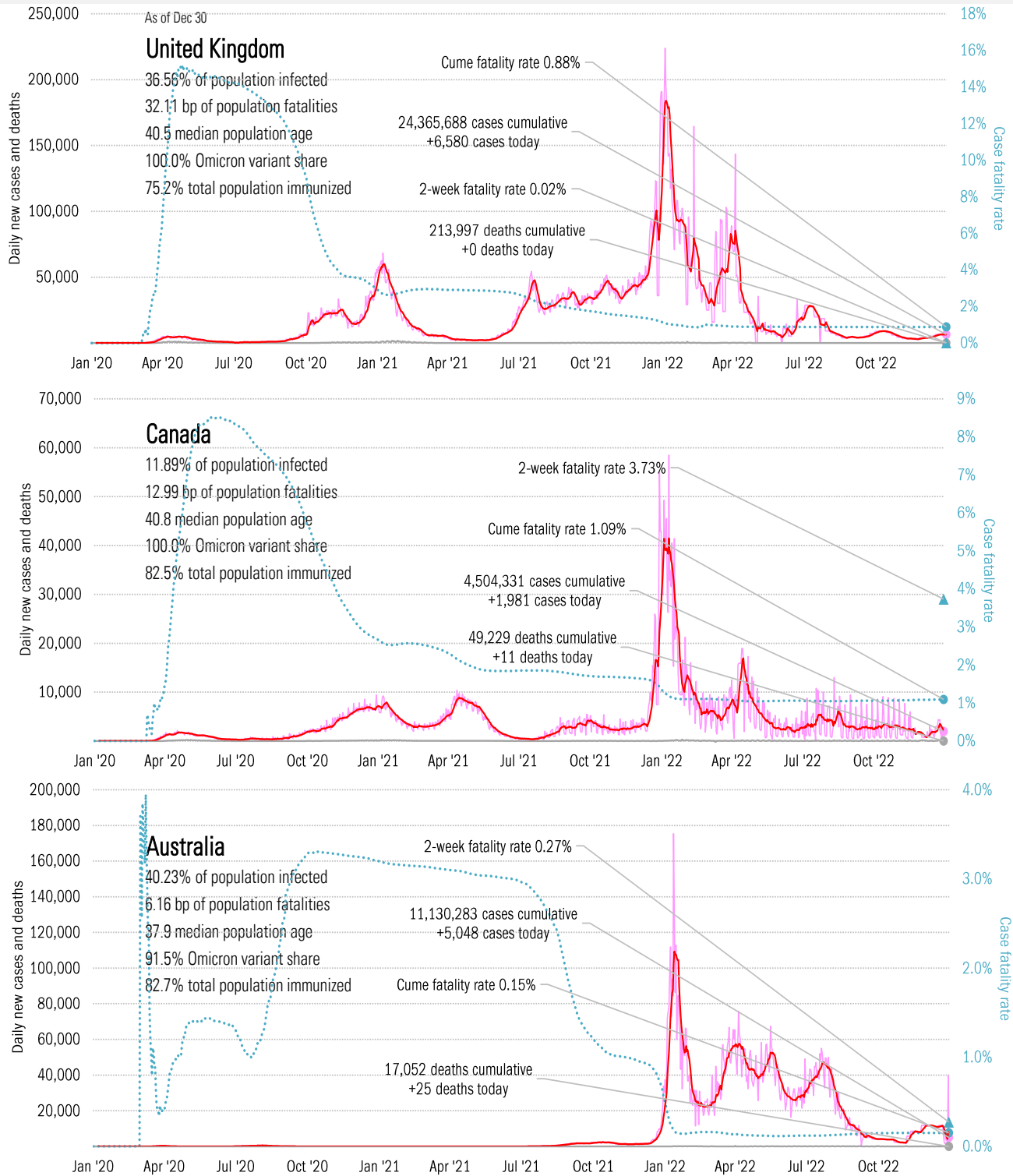
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

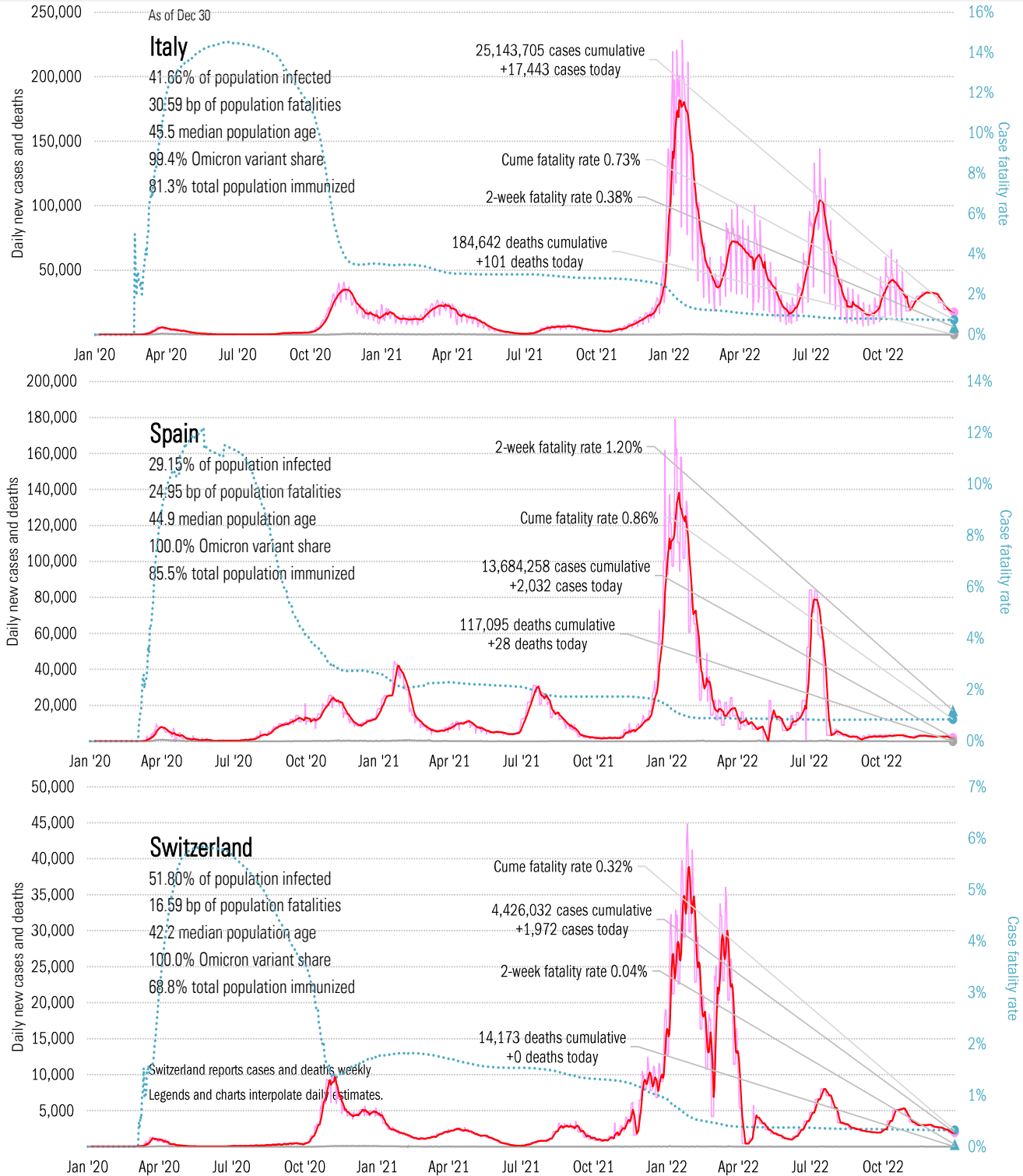
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

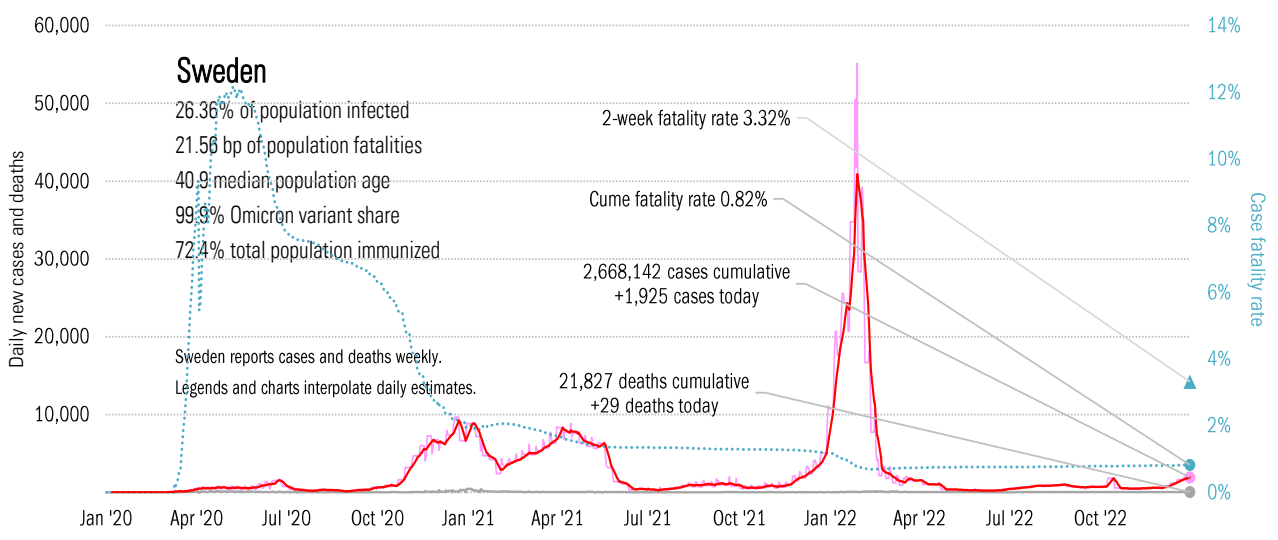
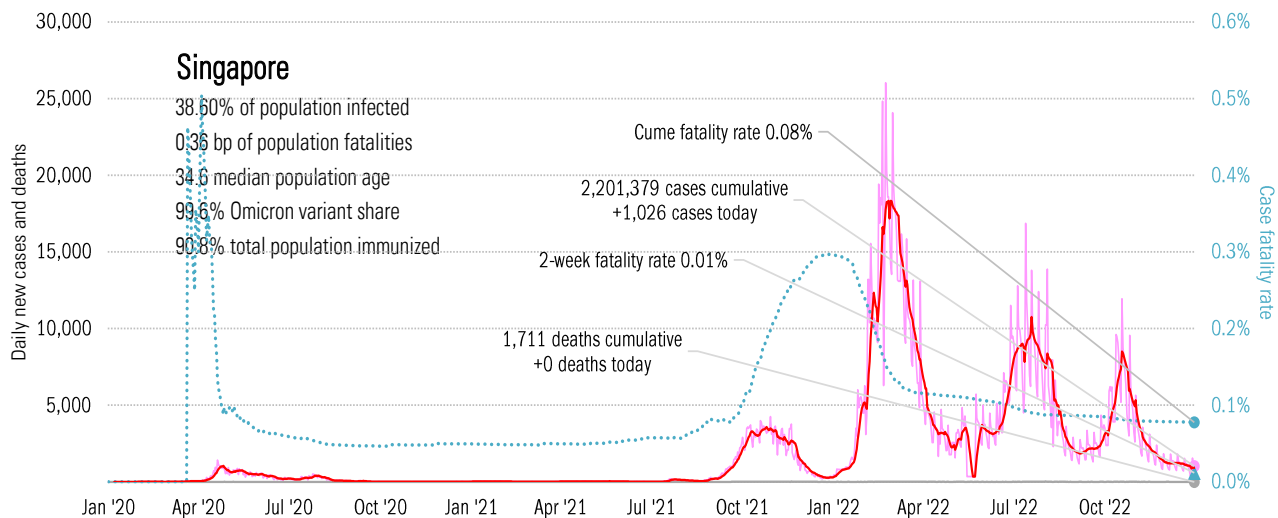
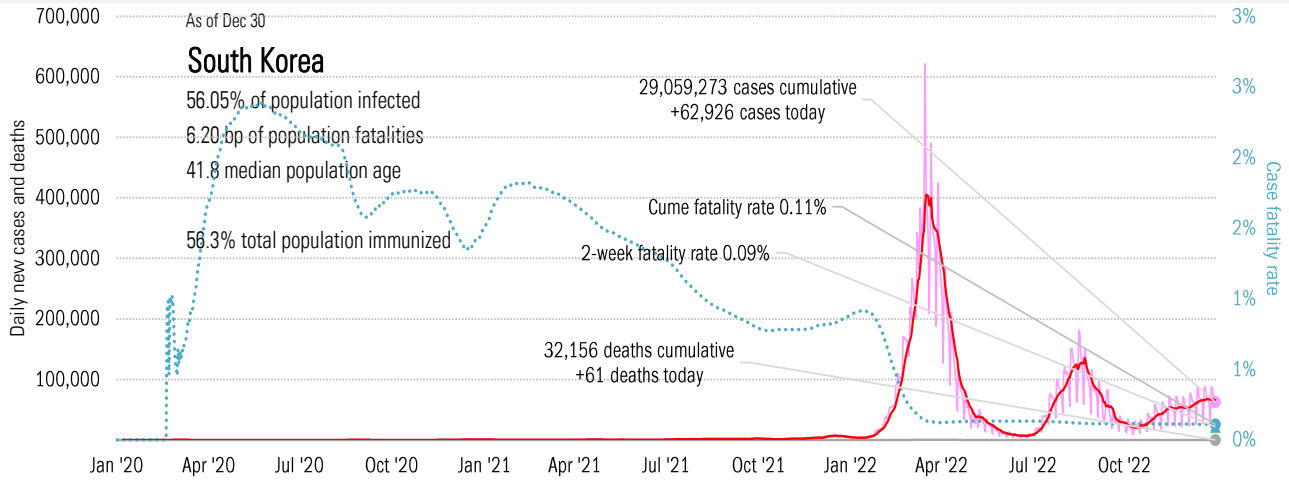
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

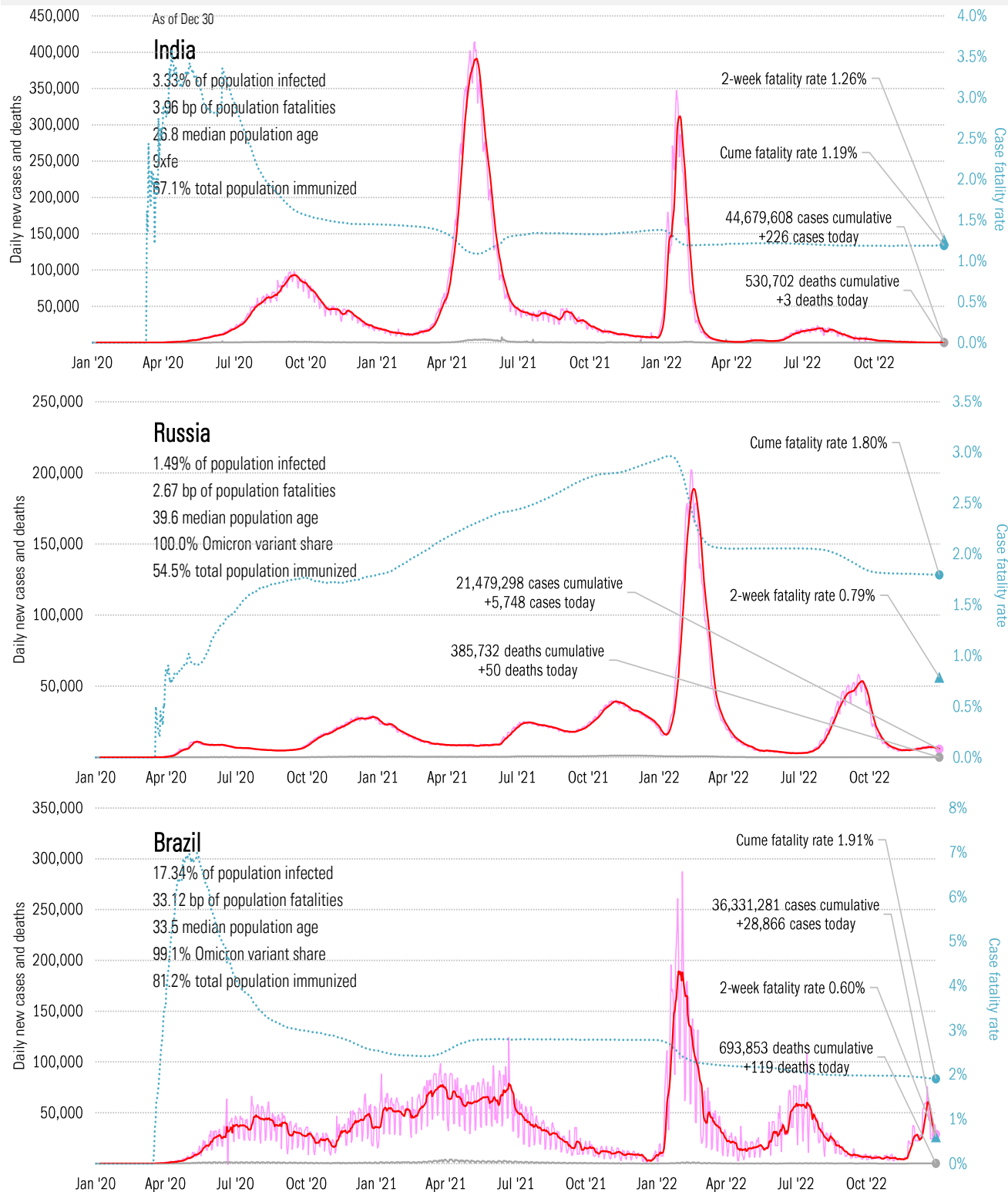
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

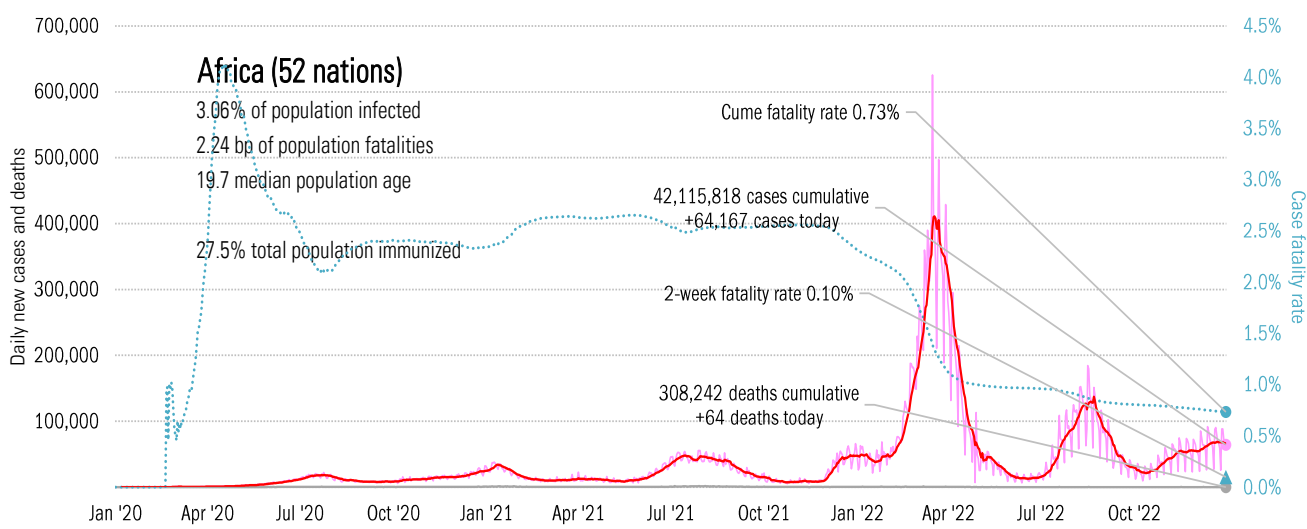
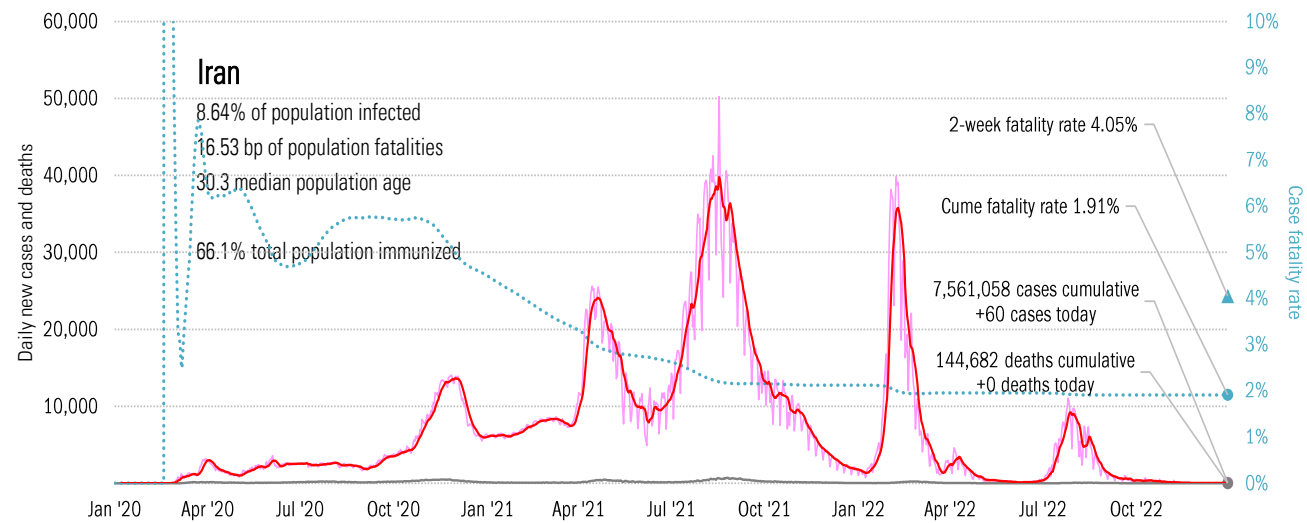
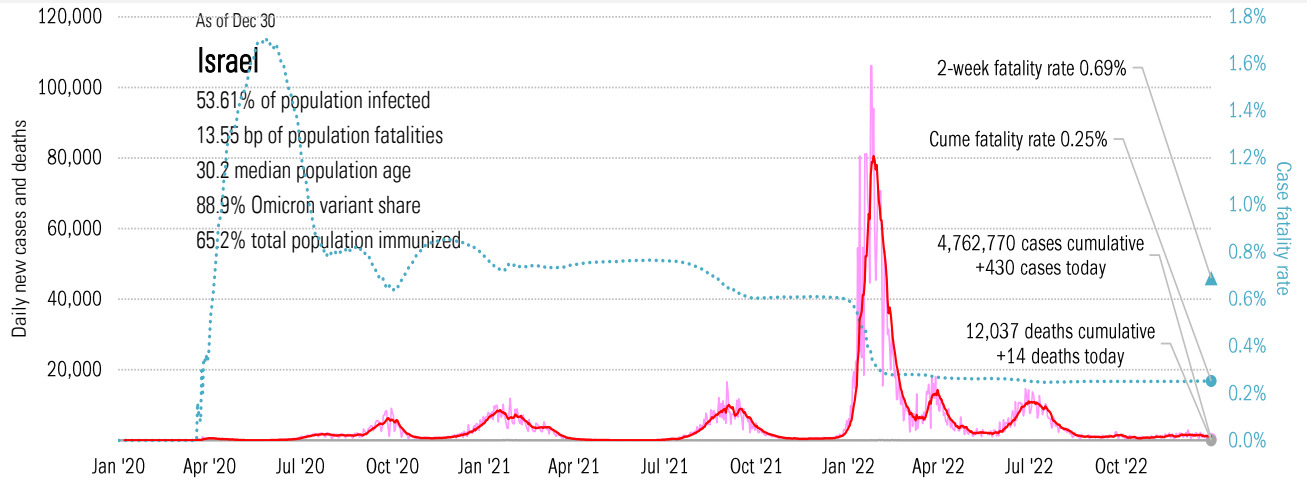
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

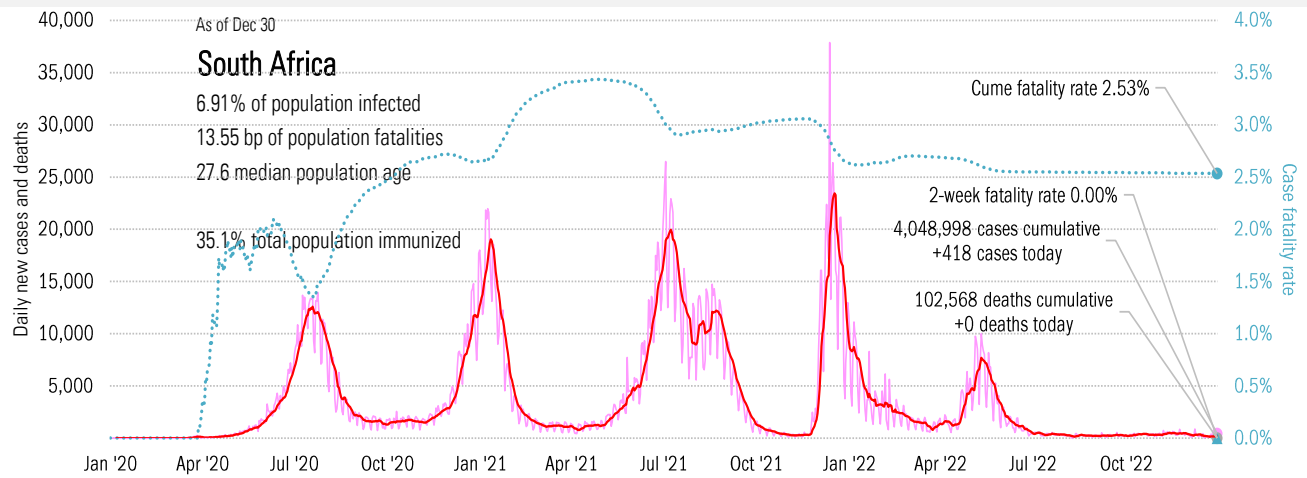
Cases: **7-day average** and **daily** Deaths: **Daily**



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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