

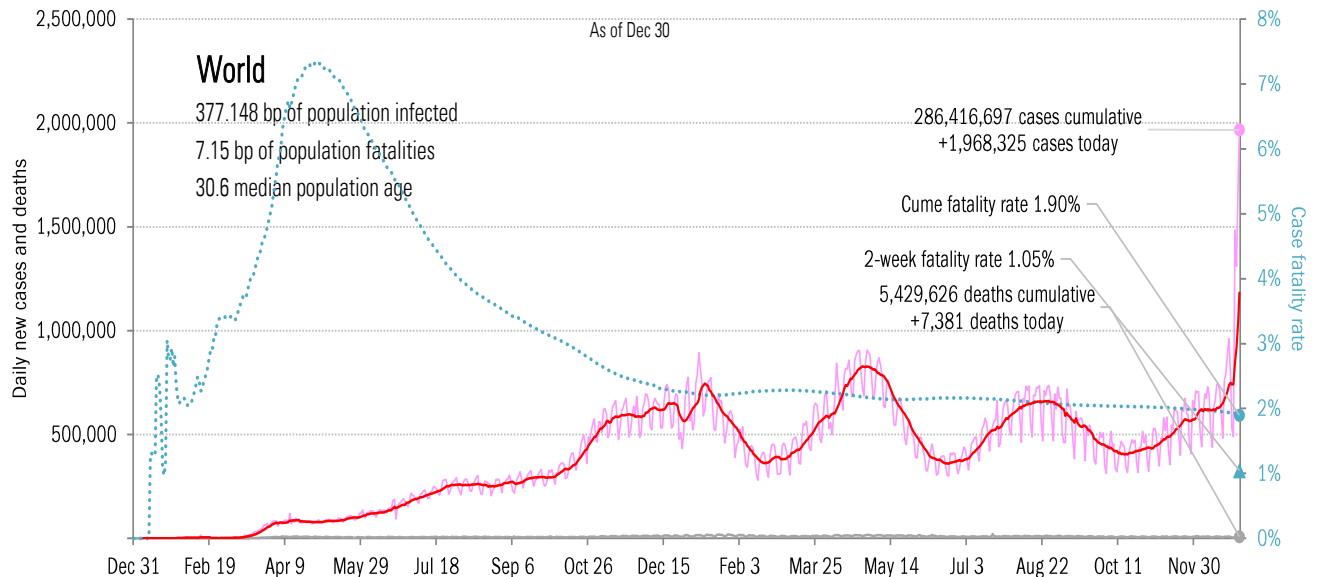
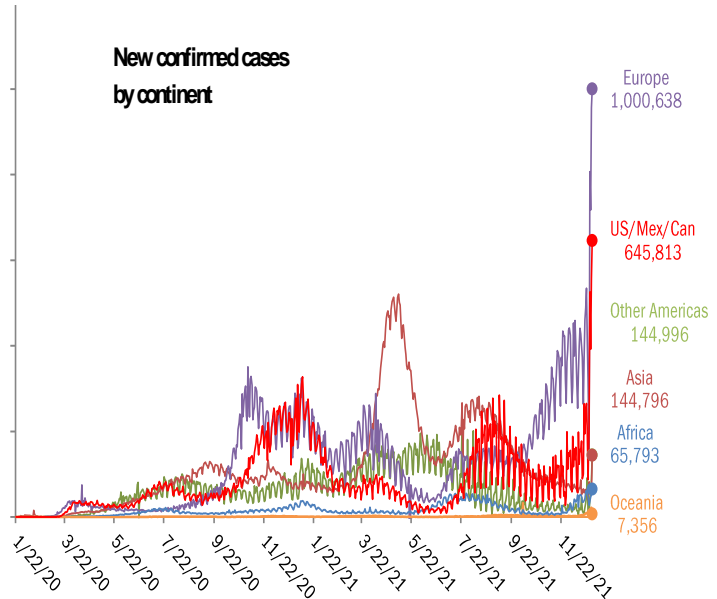
Data Insights: Covid-2019 Monitor

Friday, December 31, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	606,000	United States	1,338
France	206,546	Russia	905
United Kingdom	189,917	Poland	708
Spain	161,688	United Kingdom	336
Italy	127,000	Germany	322
Turkey	76,365	Ukraine	299
Argentina	50,506	Vietnam	291
Germany	42,070	Turkey	281
Greece	35,580	India	220
Canada	34,523	Mexico	188
1,530,195		4,888	
World 1,968,325		World 7,381	
Top ten 78%		Top ten 66%	



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

For more information contact us:

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

Cases: 7-day average and daily Deaths: Daily

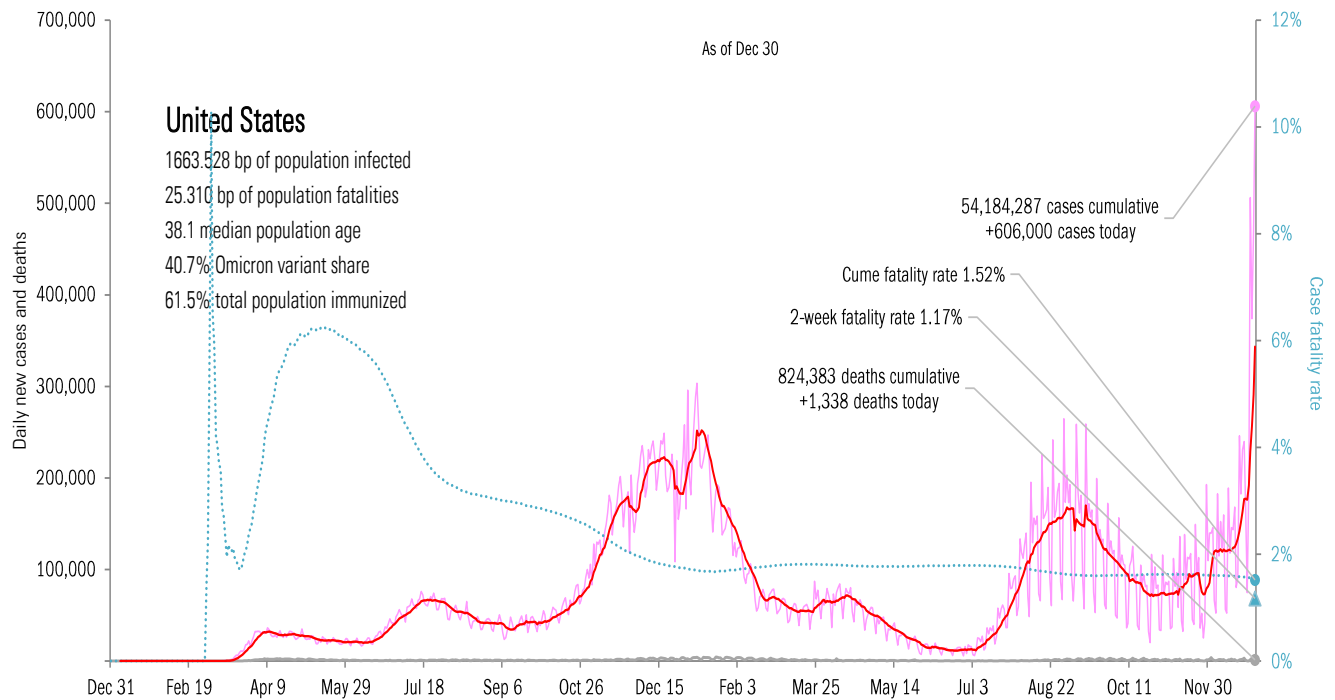
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use		
NJ	95,099		PA	135		FL	644		CA	5,456,421		CA	76,437		TX	400,458		RI	87%		RI	95%
NY	71,787		TX	105		TX	637		TX	4,581,099		TX	75,744		FL	334,998		MA	86%		KY	93%
CA	49,111		CA	101		CA	505		FL	3,967,532		FL	62,562		CA	334,201		GA	85%		IN	90%
FL	36,781		NY	98		NY	430		NY	3,402,190		NY	59,434		NY	191,085		MN	84%		NM	90%
IL	30,386		IL	87		GA	396		IL	2,149,548		PA	36,639		GA	169,840		MD	84%		MO	89%
GA	24,420		TN	69		NJ	278		PA	2,015,367		GA	31,418		CH	154,196		NC	84%		AL	88%
MA	22,086		GA	64		IL	201		CH	1,995,497		IL	30,254		PA	142,546		PA	83%		NH	88%
TX	20,115		NC	60		PA	182		GA	1,816,441		MI	29,020		IL	125,459		MO	83%		VT	87%
CH	19,774		MD	55		CH	175		MI	1,710,325		NJ	29,000		KY	120,100		WA	83%		TX	87%
PA	19,127		MN	54		MD	128		NC	1,667,493		CH	28,780		MI	117,053		WV	82%		OK	86%
388,686			828			3,576			28,761,913			459,288			2,089,936							
All states	606,000			1,338			5,074		All states	54,184,287			824,383			3,776,499		All states	70%			67%
Top ten	64%			62%			70%		Top ten	53%			56%			55%		Median	77%			81%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-29,279	MI	-373	NH	-29	PA	+20 bp
SC	-9,557	PA	-169	NM	-26	FR	+20 bp
KS	-7,275	AZ	-135	SD	-14	RI	+20 bp
KY	-5,513	FL	-134	NV	-13	AZ	+10 bp
AK	-992	NY	-69	FR	-13	CA	+10 bp

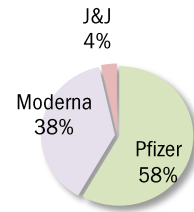


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	520,901,960	+1.366 million	US	61.5%	73.4%
Boosters	69,843,701	+0.835 million	UK	69.5%	75.9%
	One dose	% Pop	Immune	% pop	New immune today
Total population	249,513,525	75%	210,949,398	63%	+0.175 million
Age 12 to 17	15,176,486	64%	12,765,868	54%	+0.015 million
Age 18 to 64	168,874,428	83%	143,479,478	71%	+0.074 million
Age 65 and over	57,700,736	100%	49,630,282	91%	+0.007 million

France	73.2%	78.2%
Spain	81.0%	84.8%
Germany	70.5%	73.5%
Italy	74.1%	80.1%
Australia	76.6%	79.3%
Israel	63.7%	70.6%
Canada	77.2%	83.3%
Japan	78.3%	79.7%
Africa	9.1%	14.1%
India	42.7%	60.5%
Brazil	67.0%	77.7%
China	83.6%	87.2%



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

Every American >18 immunized in **581 days**
 by Aug 2, 2023
 74.8% of population >18 immunized
 19.1% previously tested positive
93.9% vs 60% adult herd immunity

Global data differs due to sources, timing

AK
65.0%
56.3%

WI
68.2%
62.0%

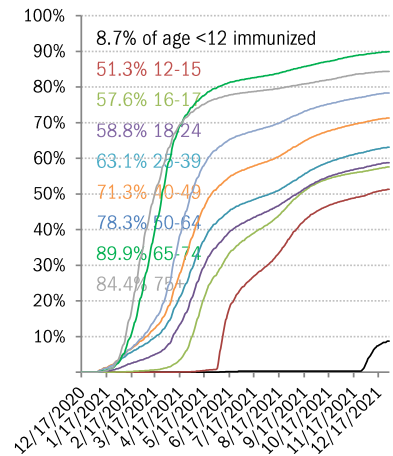
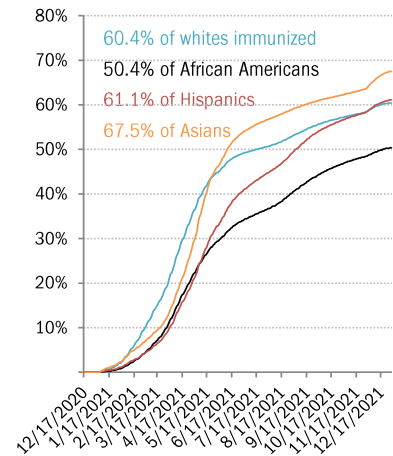
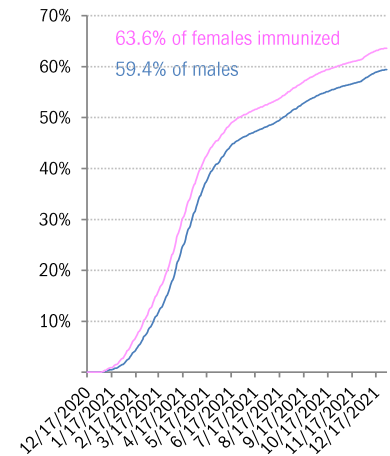
ME
85.9%
75.8%

As of Dec 30

WA: 75.7% / 67.9%	ID: 52.1% / 46.2%	MT: 62.1% / 54.0%	ND: 62.2% / 52.6%	MN: 71.4% / 65.4%	IL: 72.0% / 64.0%	MI: 63.5% / 56.8%	NY: 84.0% / 71.8%	VT: 89.3% / 77.4%	NH: 95.0% / 67.2%	
OR: 74.0% / 66.5%	NV: 69.5% / 56.4%	WY: 55.9% / 47.5%	SD: 70.9% / 57.1%	IA: 64.9% / 59.0%	IN: 57.9% / 52.0%	OH: 60.4% / 55.2%	PA: 78.2% / 63.9%	NJ: 83.7% / 70.5%	MA: 90.6% / 74.6%	
CA: 82.7% / 66.1%	UT: 67.4% / 58.8%	CO: 74.6% / 66.2%	NE: 66.4% / 59.9%	MO: 62.3% / 53.0%	KY: 62.5% / 54.2%	WV: 61.9% / 55.1%	VA: 79.0% / 68.0%	MD: 80.4% / 70.4%	CT: 88.6% / 74.6%	RI: 89.0% / 76.5%
	AZ: 67.3% / 57.0%	NM: 80.7% / 66.2%	KS: 69.3% / 57.0%	AR: 62.7% / 51.2%	TN: 58.7% / 51.4%	NC: 76.4% / 56.7%	SC: 62.8% / 53.1%	DC: 88.5% / 67.6%	DE: 76.7% / 64.2%	
			OK: 66.0% / 53.5%	LA: 57.4% / 50.3%	MS: 55.3% / 48.1%	AL: 58.5% / 47.6%	GA: 61.3% / 51.1%			
			TX: 66.8% / 57.0%					FL: 74.5% / 63.4%		PR: 88.9% / 77.0%

HI
88.2%
63.6%

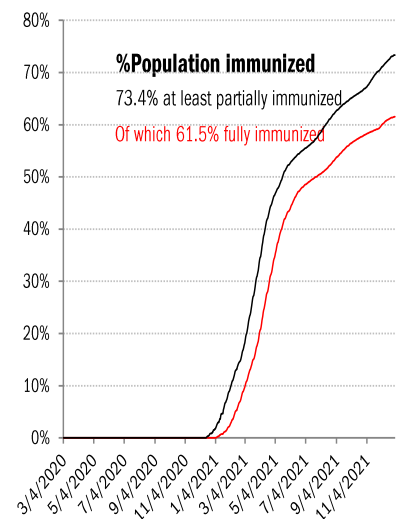
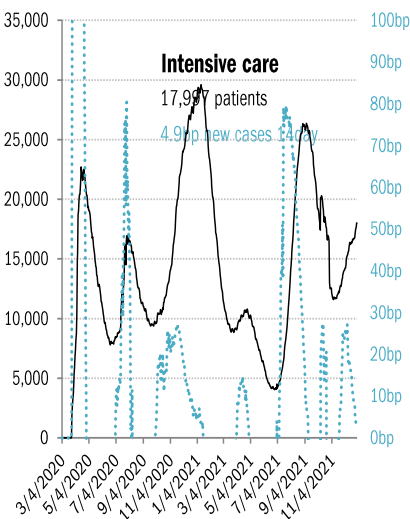
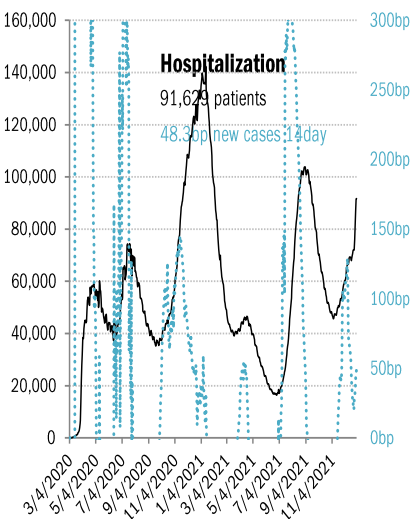
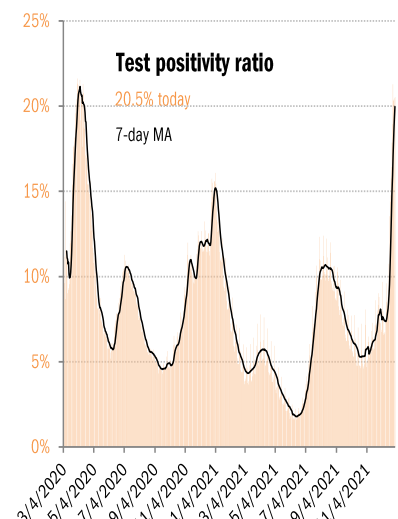
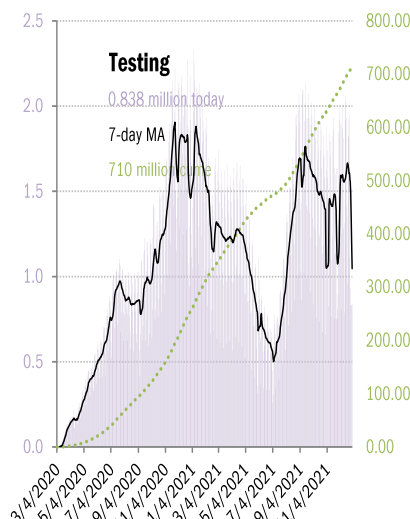
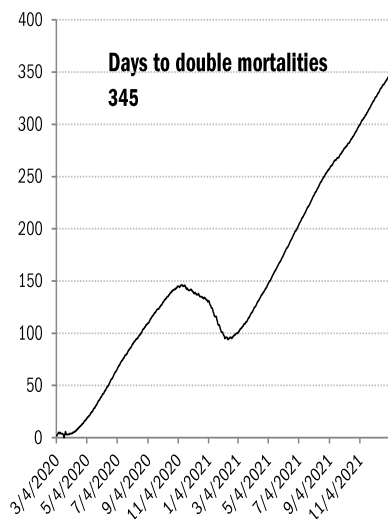
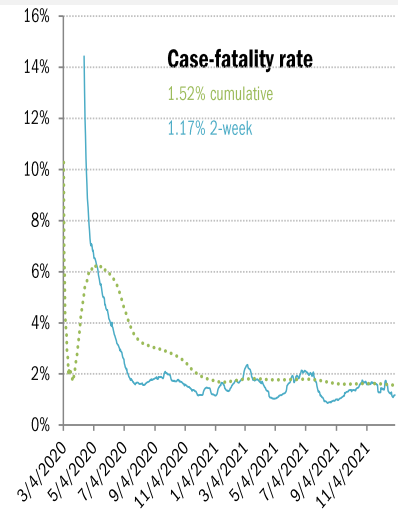
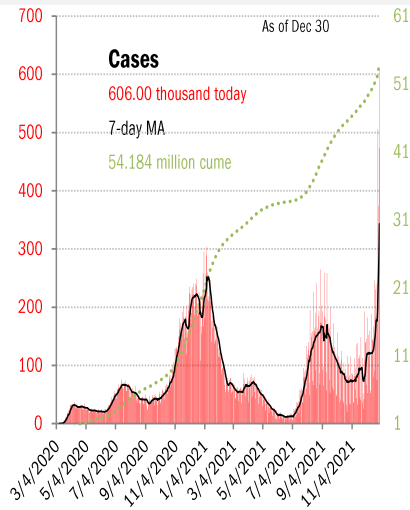
The demographics of US vaccination



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

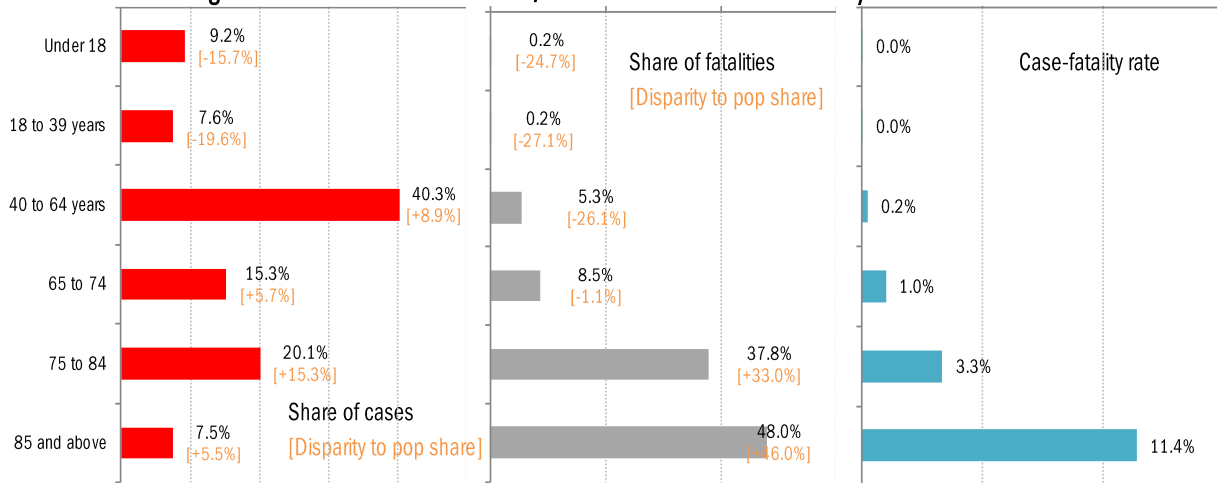
US deep-dive

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

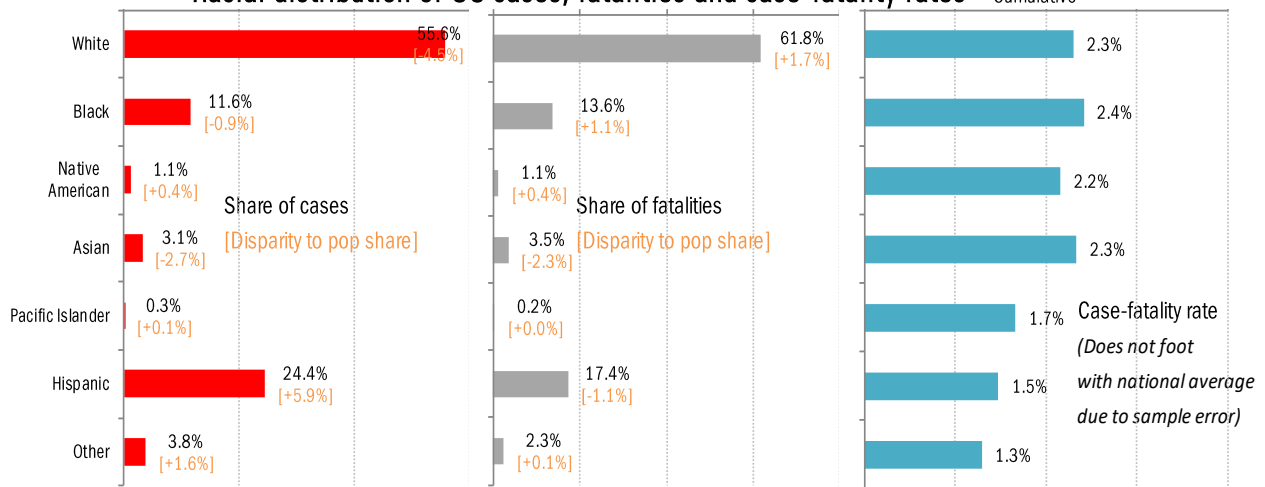


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

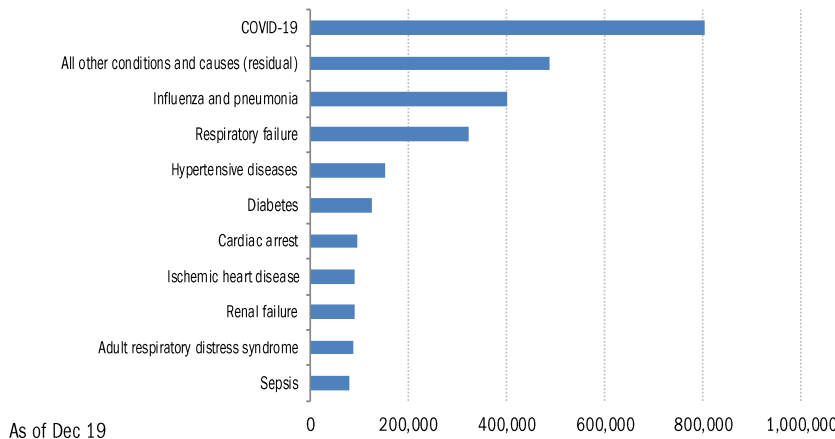


Racial distribution of US cases, fatalities and case-fatality rates



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

[The T-Cell Covid Cavalry](#)

Wall Street Journal

December 30, 2021

[Waning of SARS-CoV-2 booster viral-load reduction effectiveness](#)

Matan Levine-Tiefenbrun

medRxiv

December 27, 2021

[CBS Edits Out Own Reporter SLAMMING School Closures Causing Mental Health Crisis](#)

Curtis Houck

MRC Newsbusters

December 27, 2021

[Packers QB Aaron Rodgers says science that can't be questioned is propaganda](#)

Victor Morton

Washington Examiner

December 28, 2021

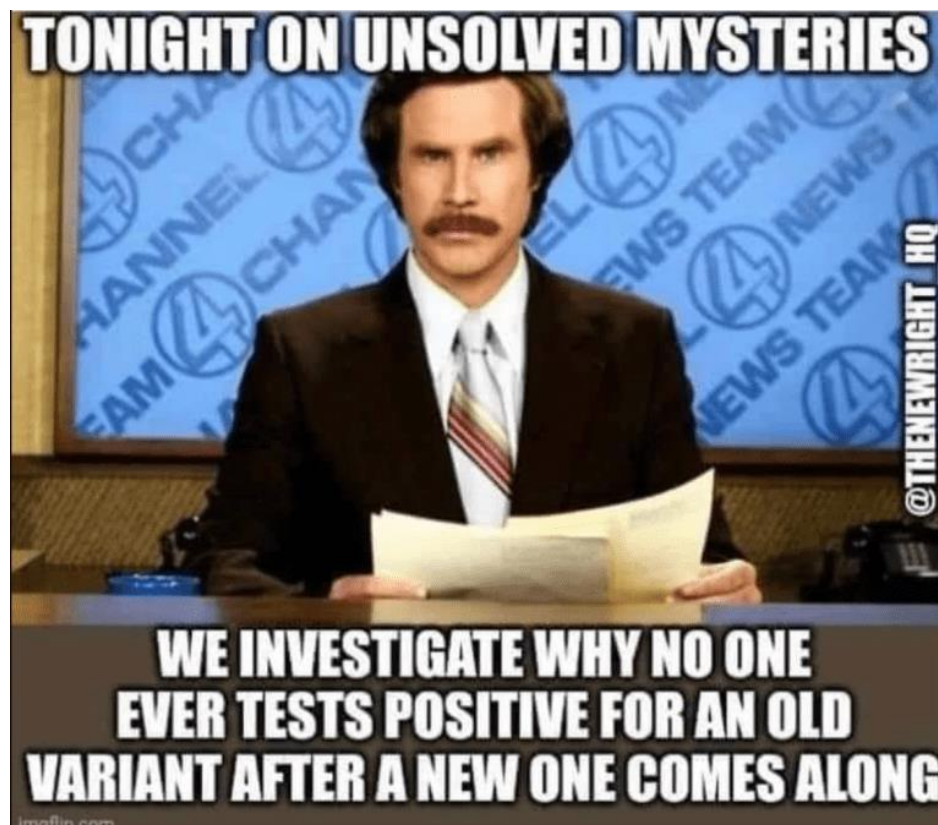
[Biden says if medical team advises it, he'll issue domestic travel vaccine requirement](#)

Alex Gangitano

The Hill

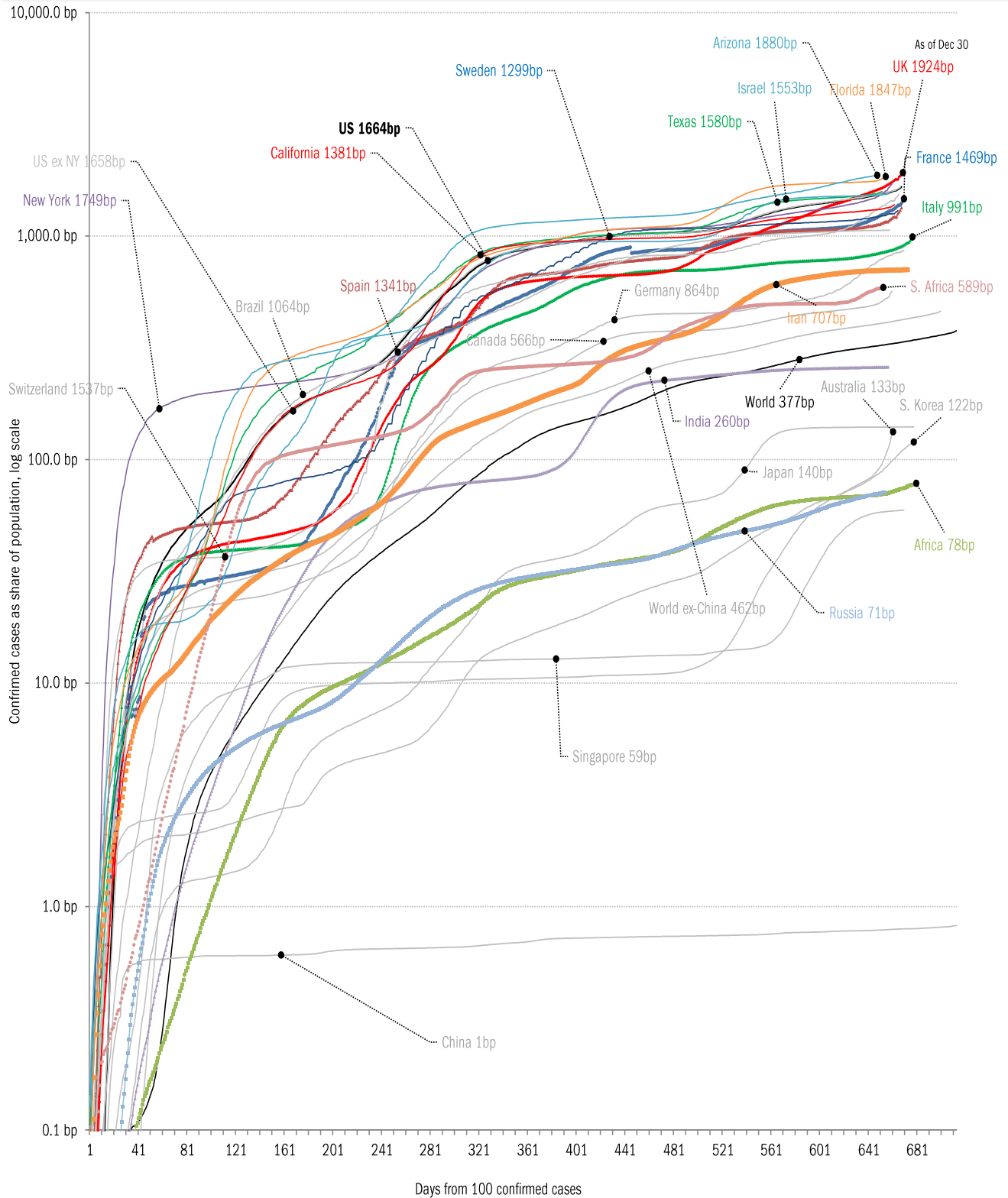
December 28, 2021

Meme of the day



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

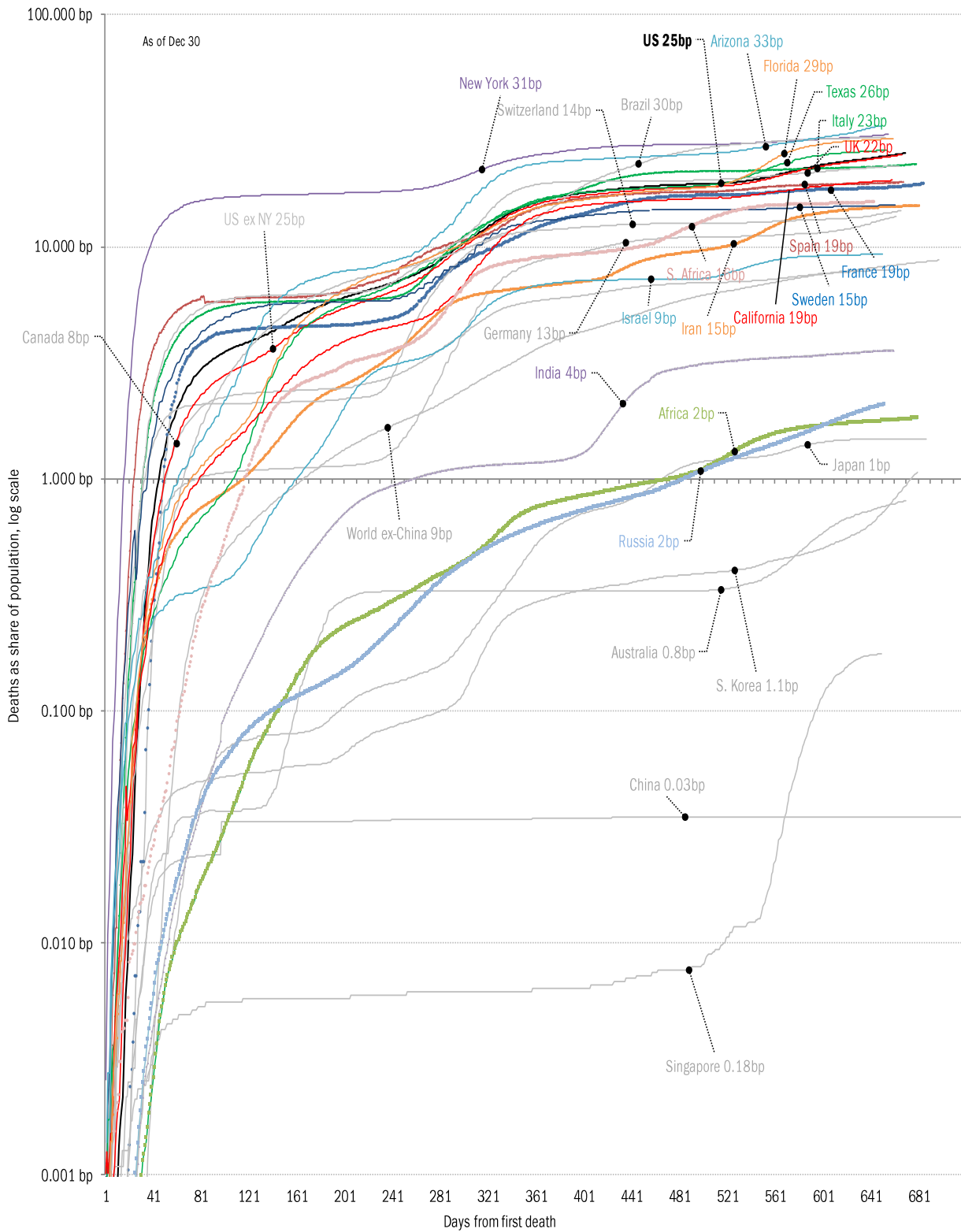
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

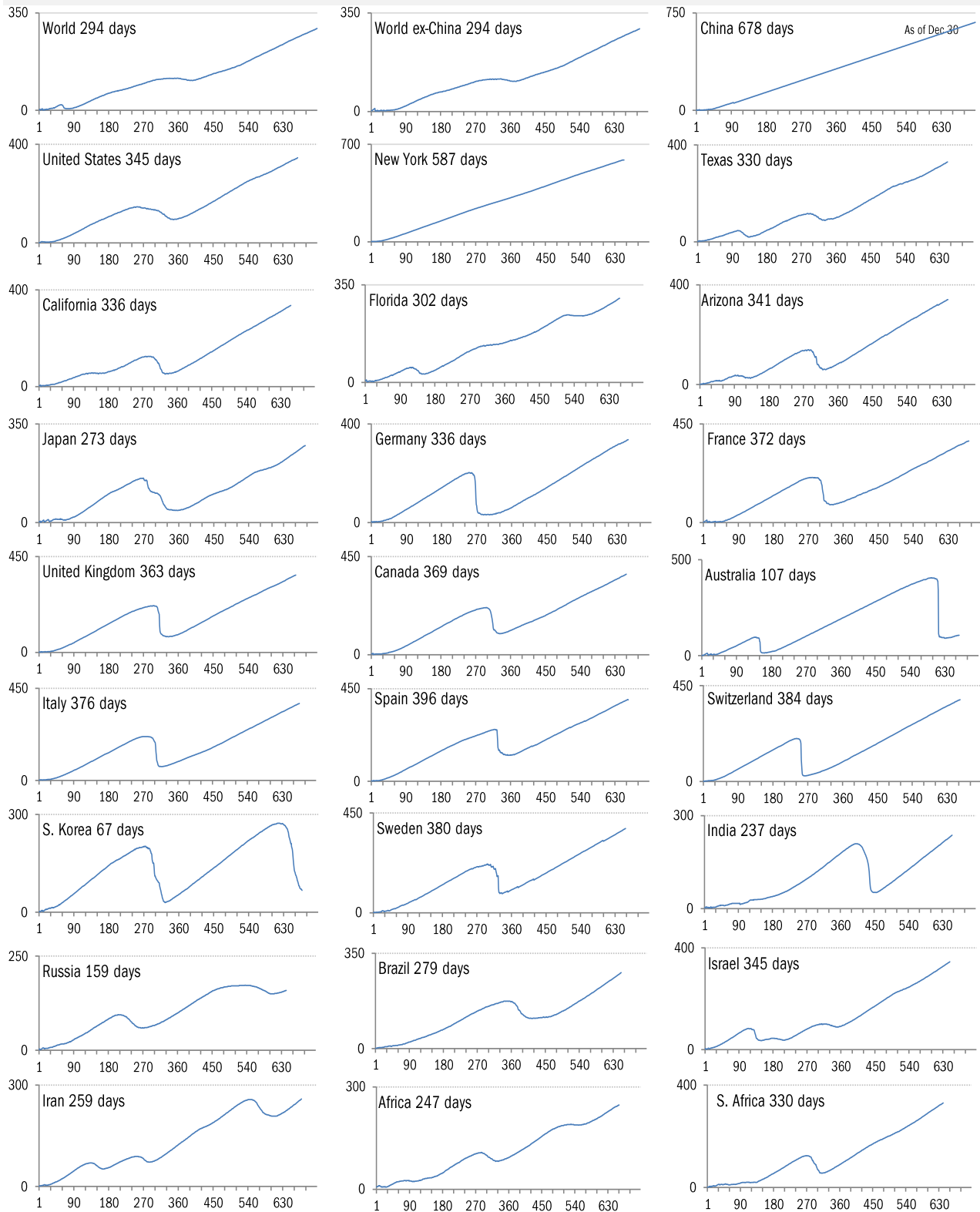


Source: [Johns Hopkins](#), TrendMacro calculations

"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

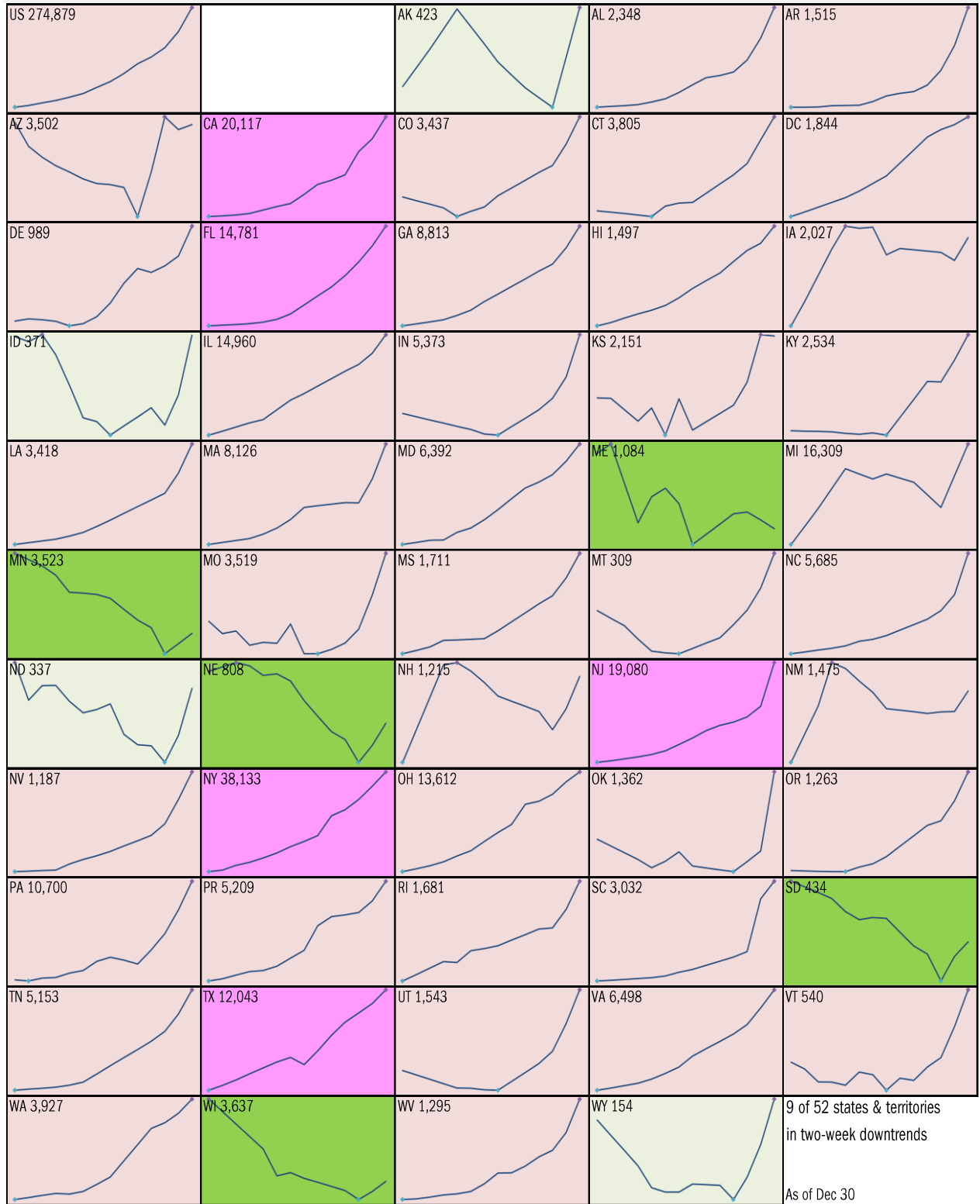


Source: [Johns Hopkins](#), TrendMacro calculations

Requirement to [Open Up America Again](#): 14-day "downward 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

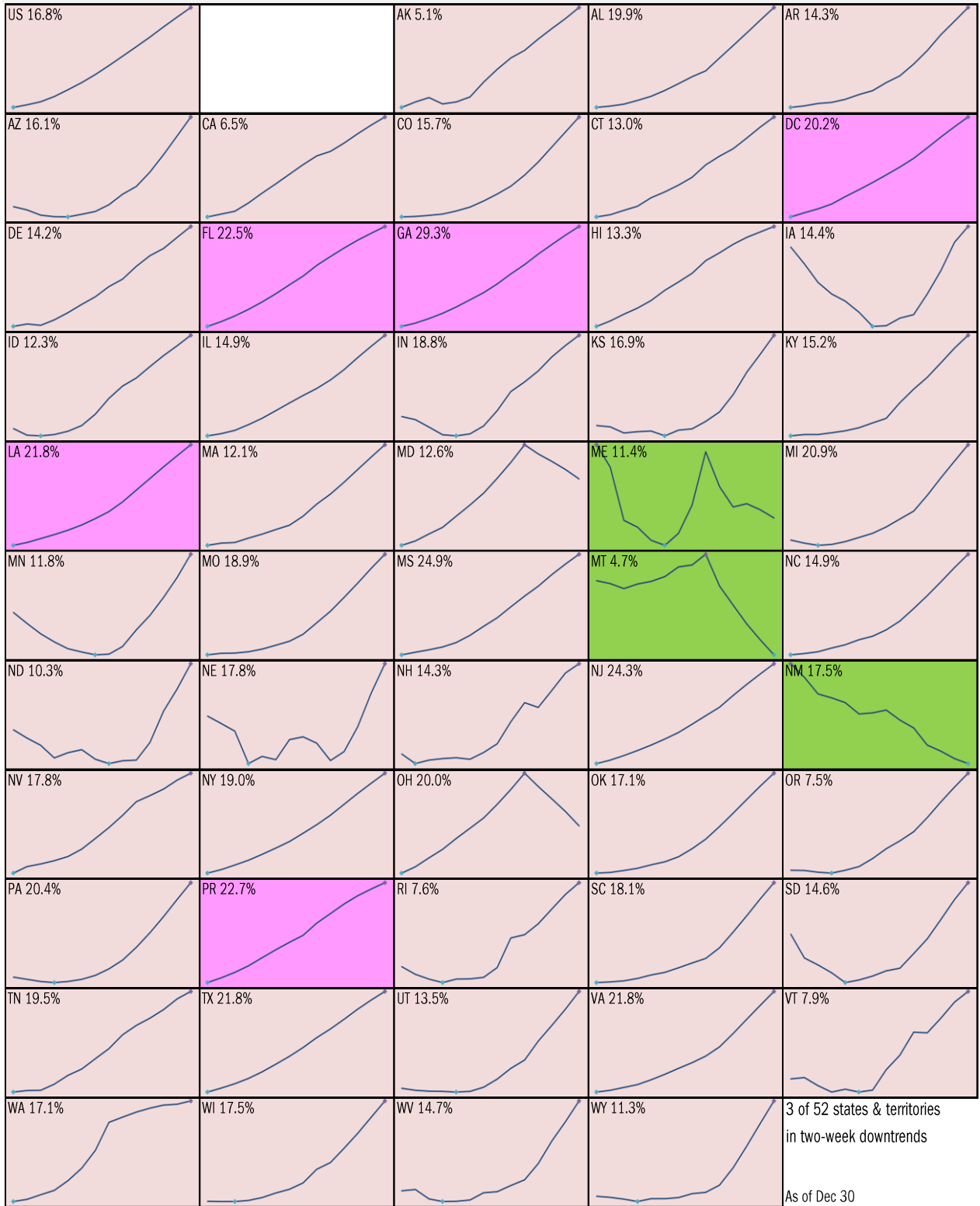


Source: [Johns Hopkins](#), TrendMacro calculations

Alt requirement to [Open Up America Again](#): 14-day “downward trajectory” in pos tests

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

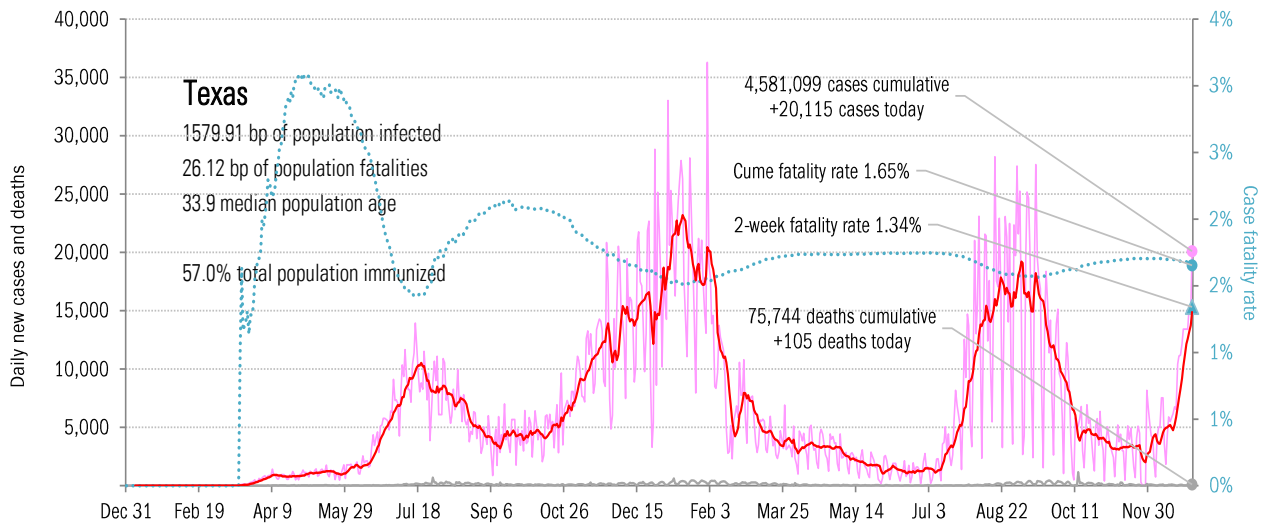
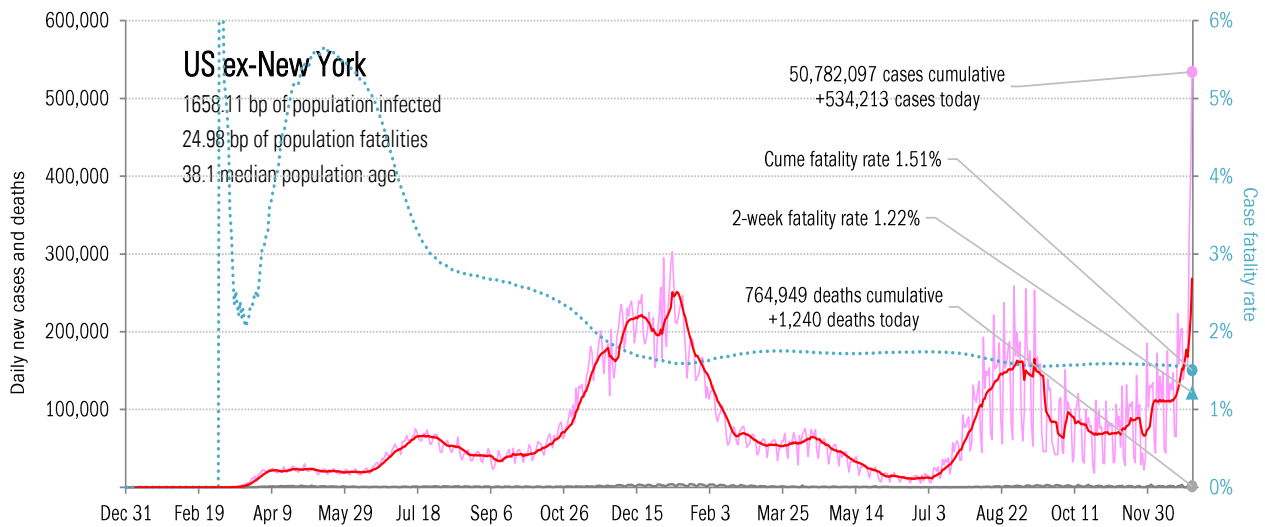
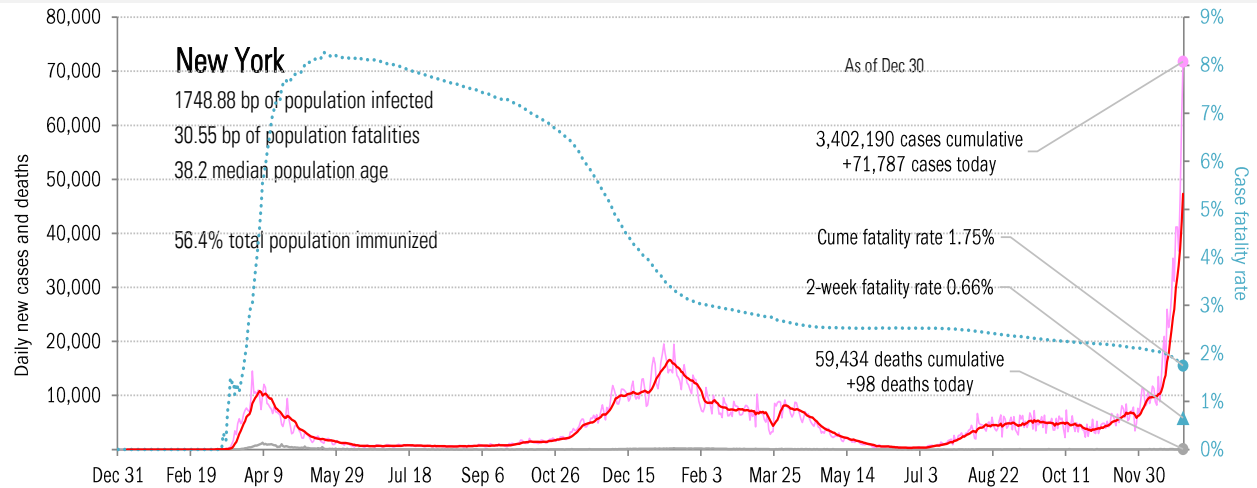
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

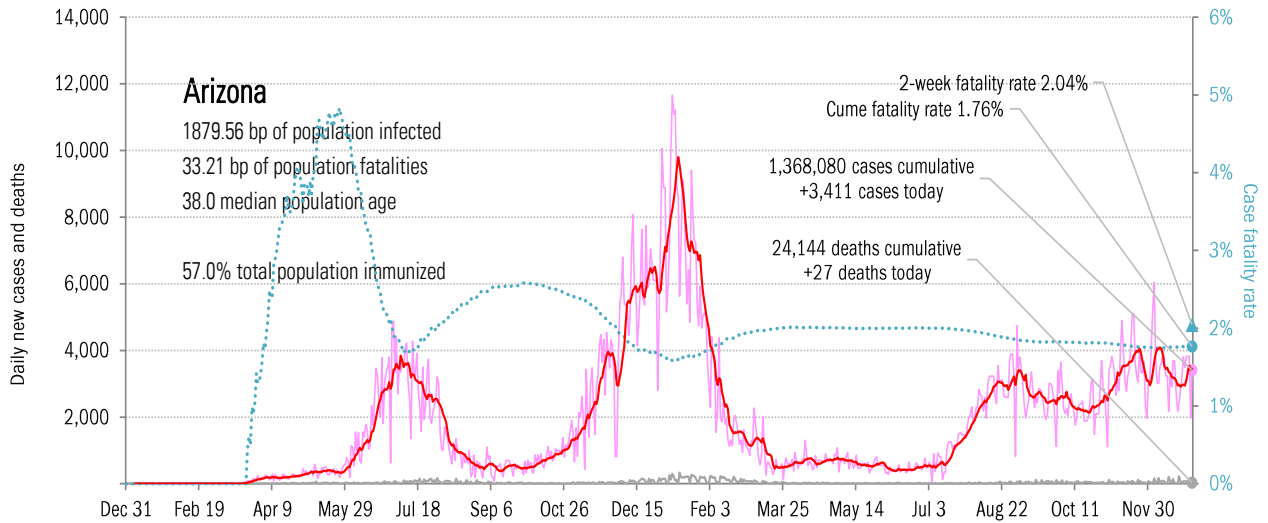
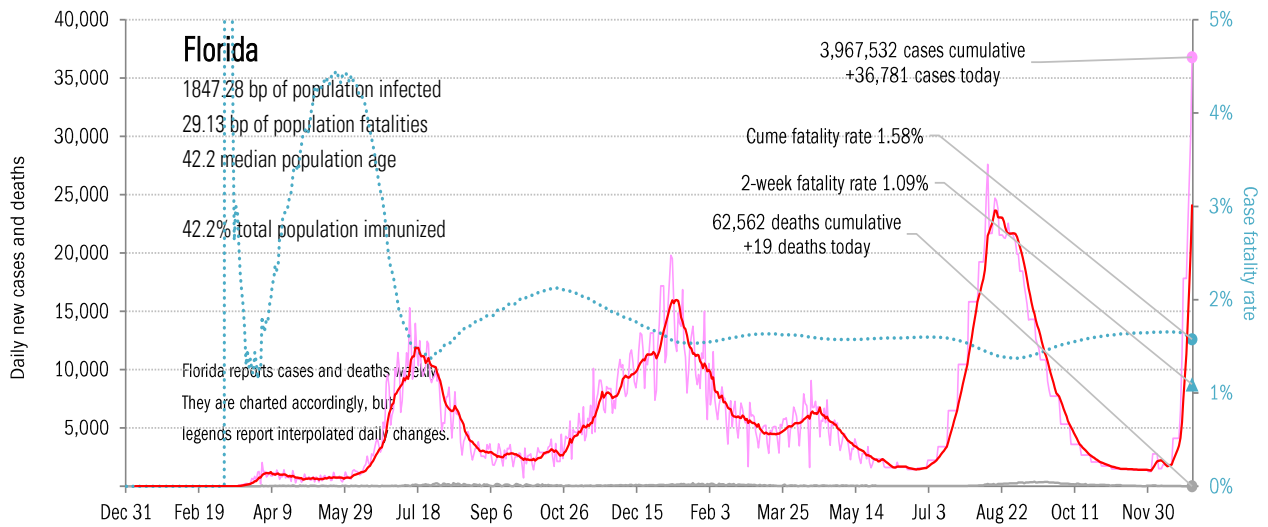
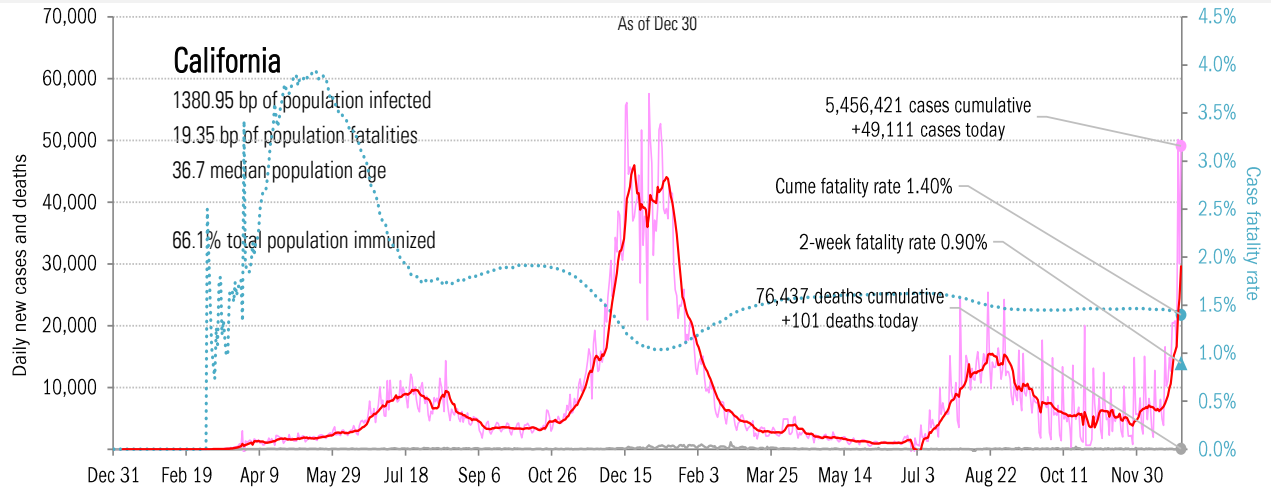
Cases: 7-day average and daily Deaths: Daily



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

The sun-belt hot-spot states (other than Texas)

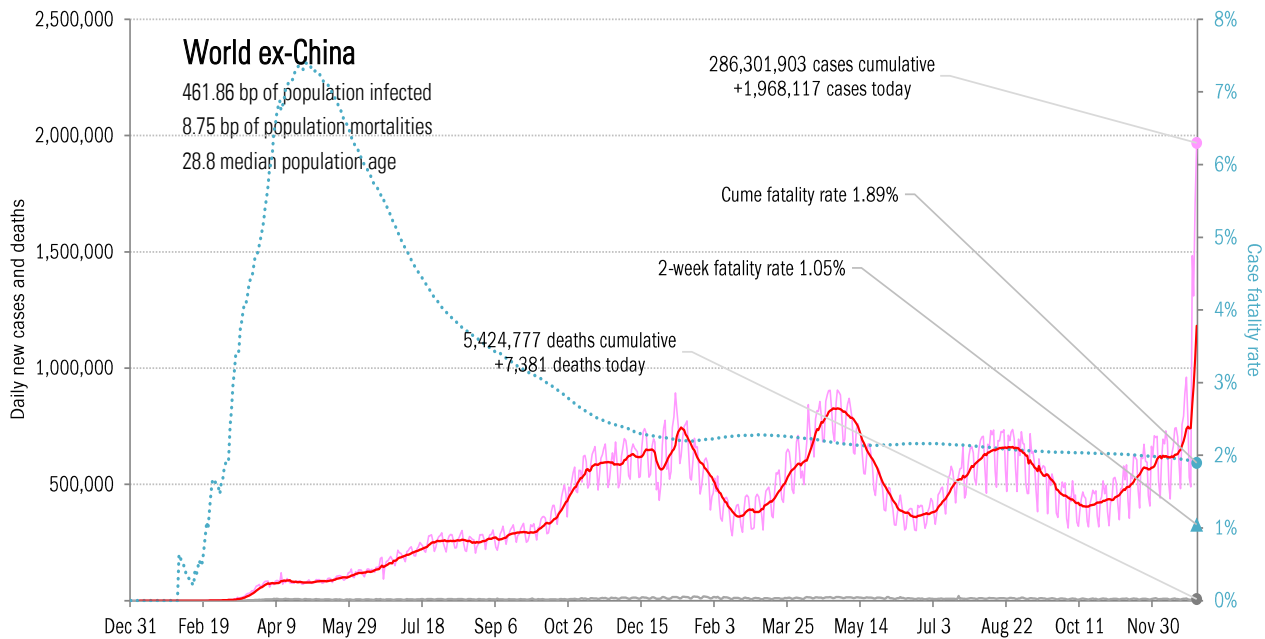
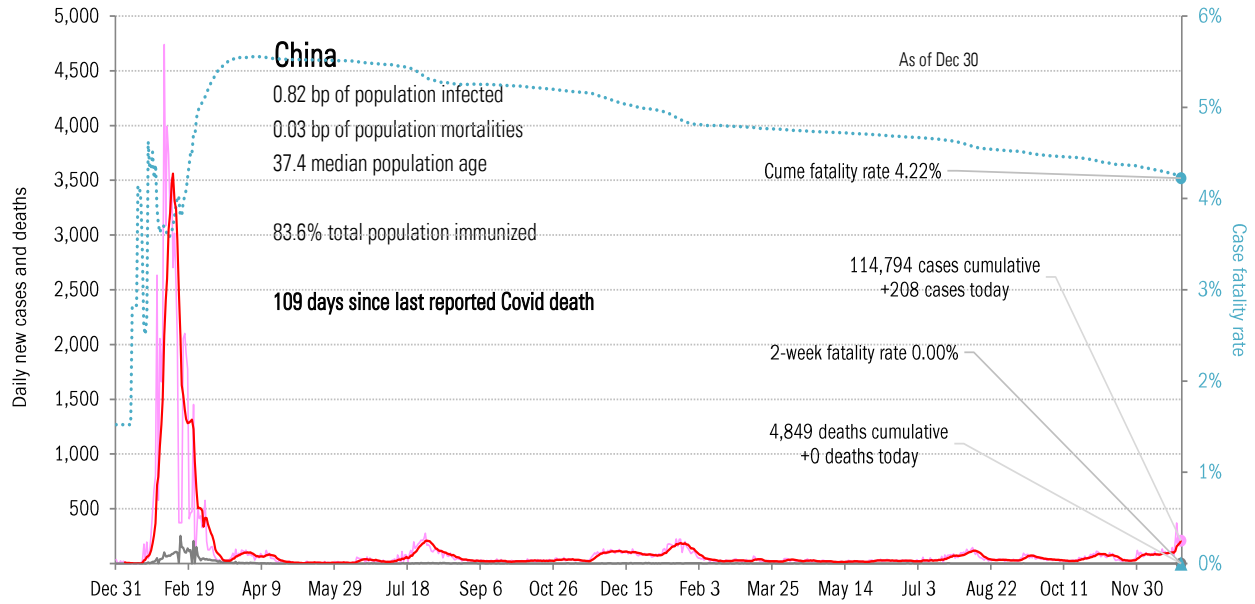
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

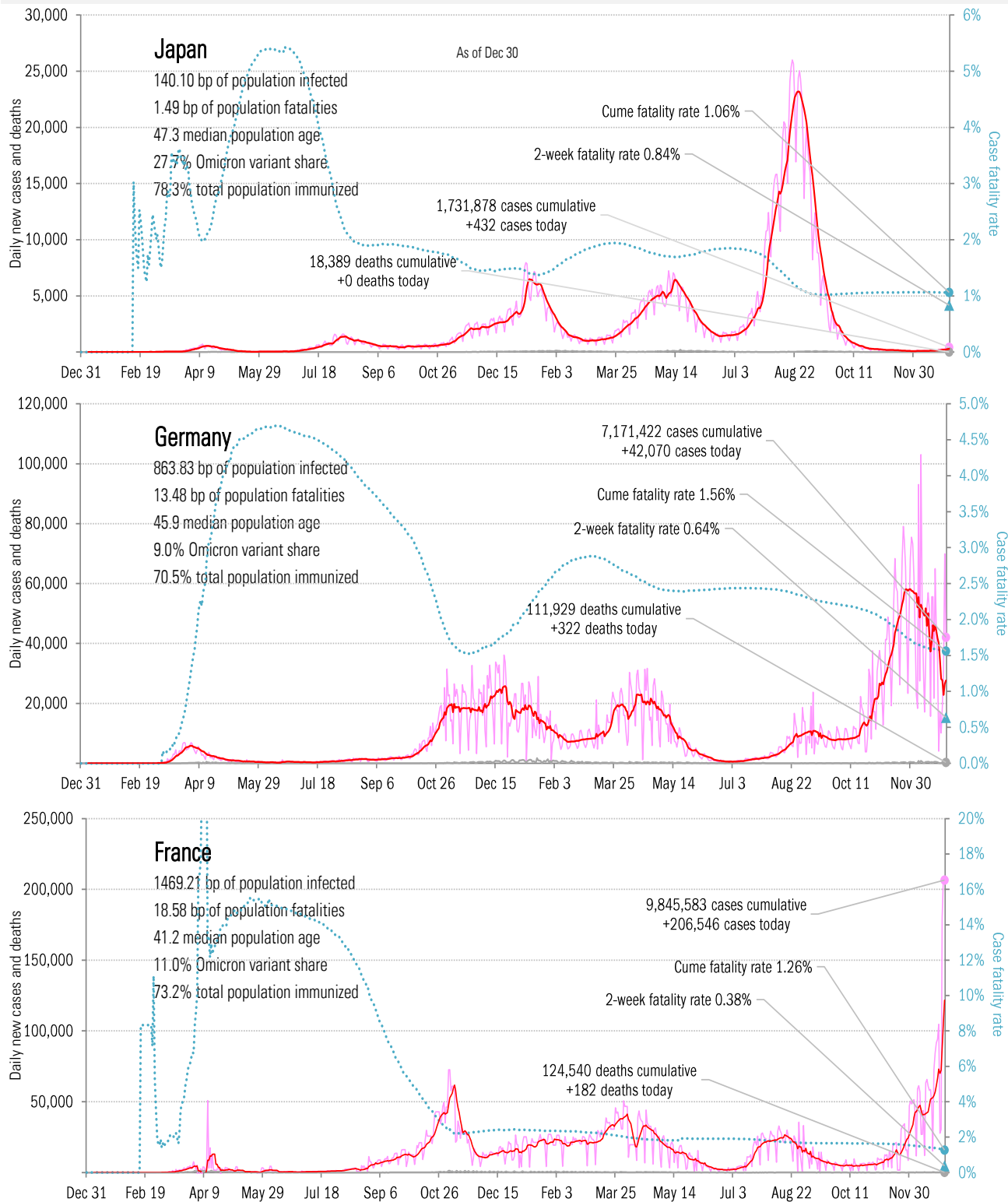
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

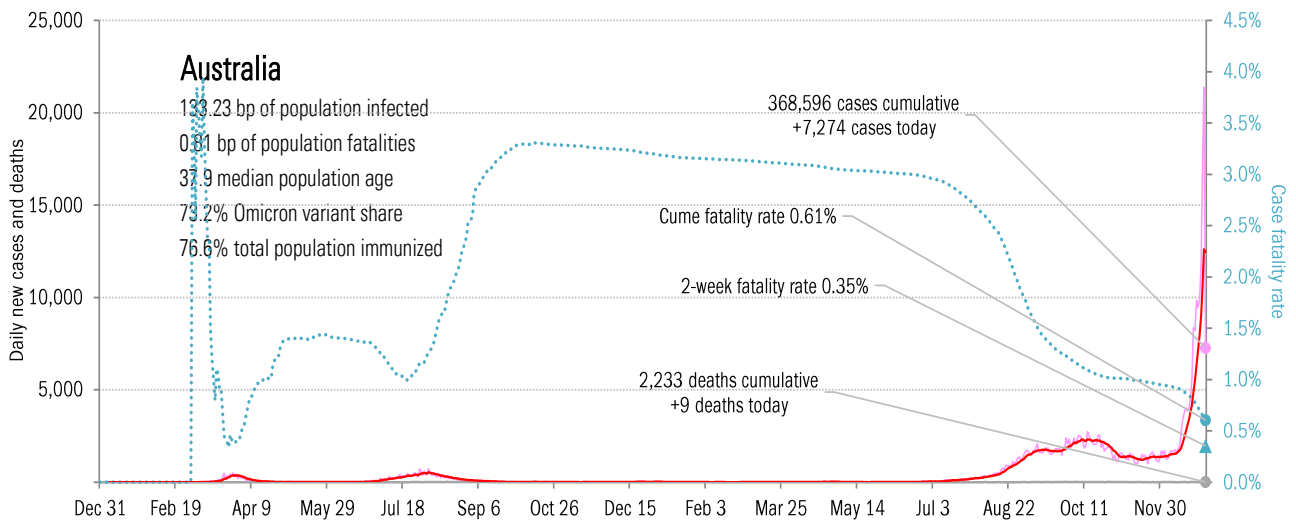
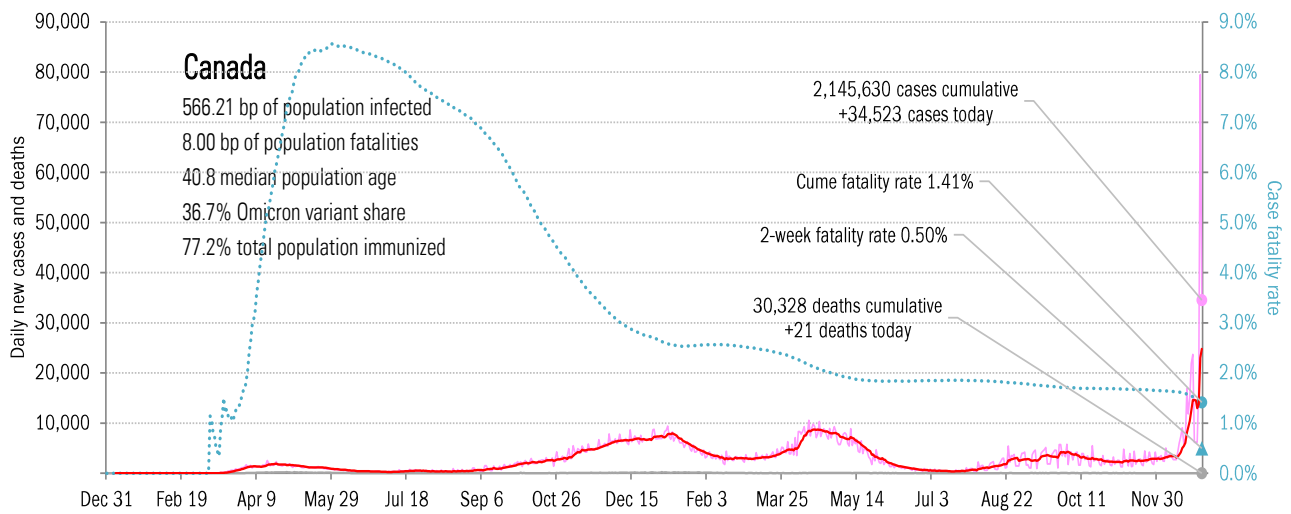
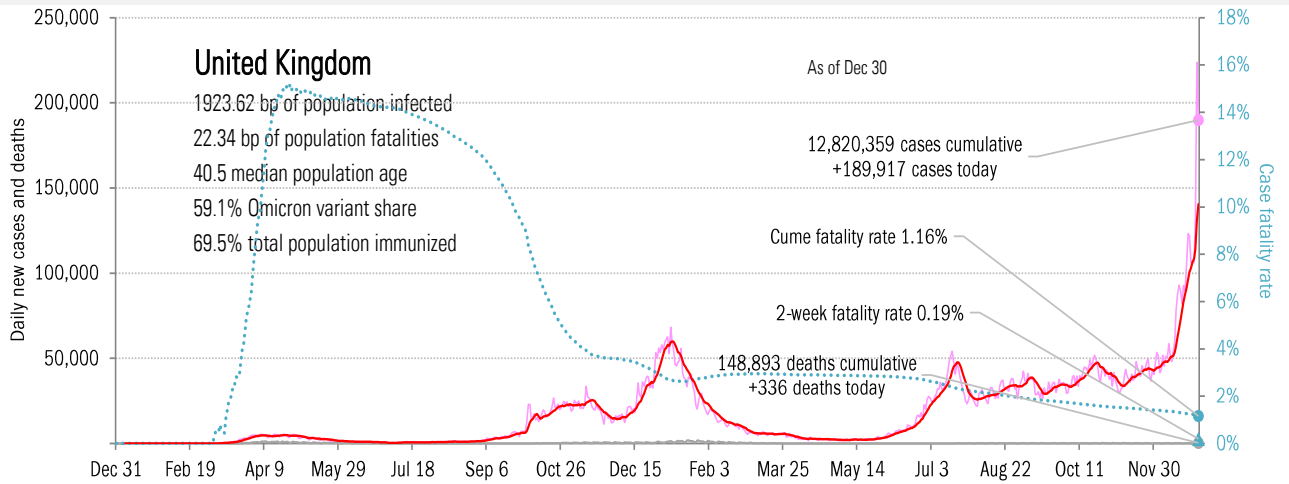
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

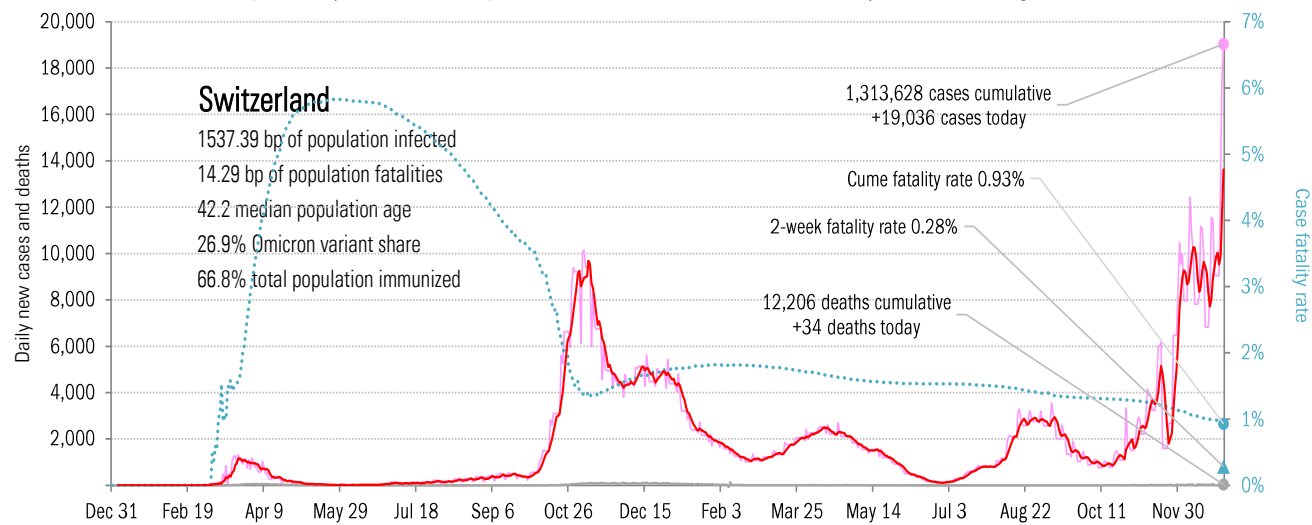
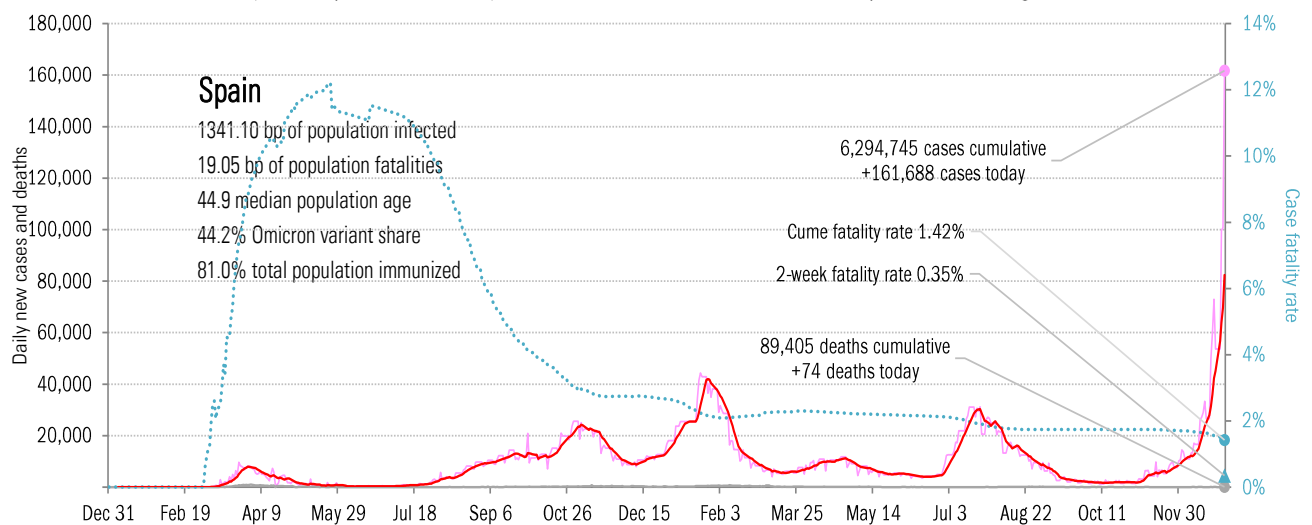
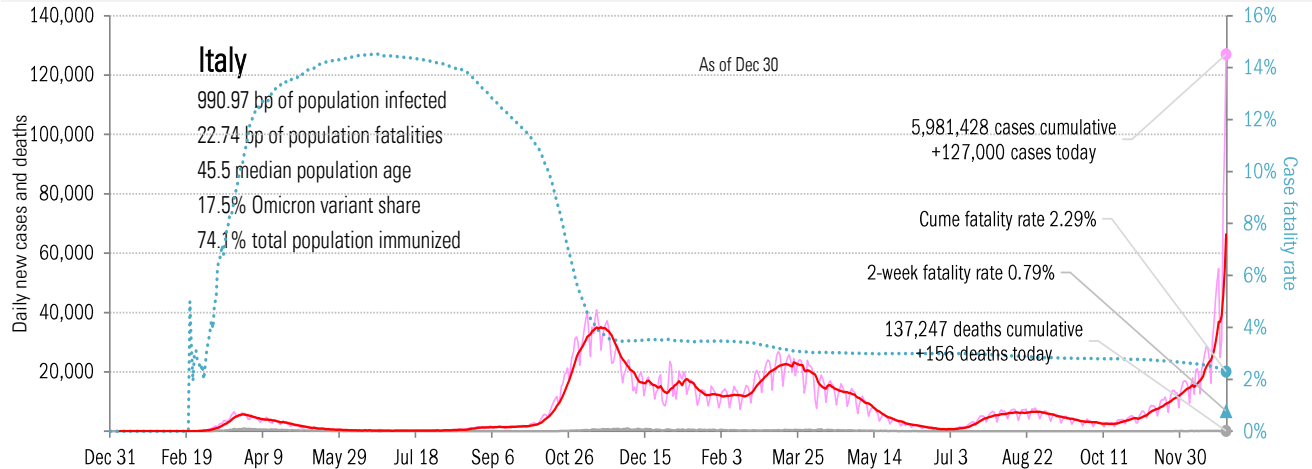
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

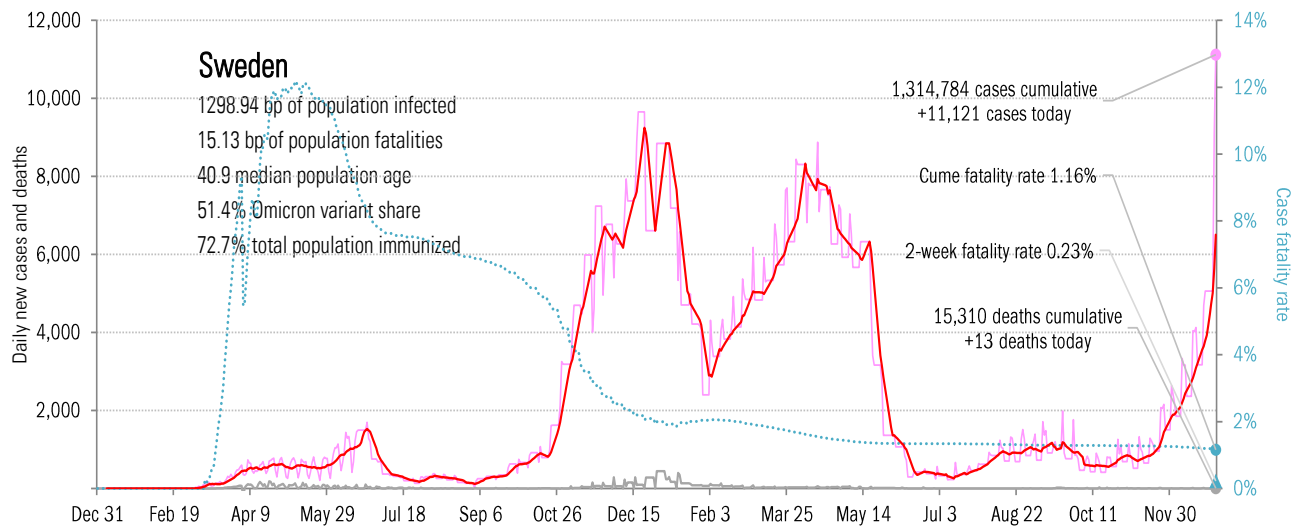
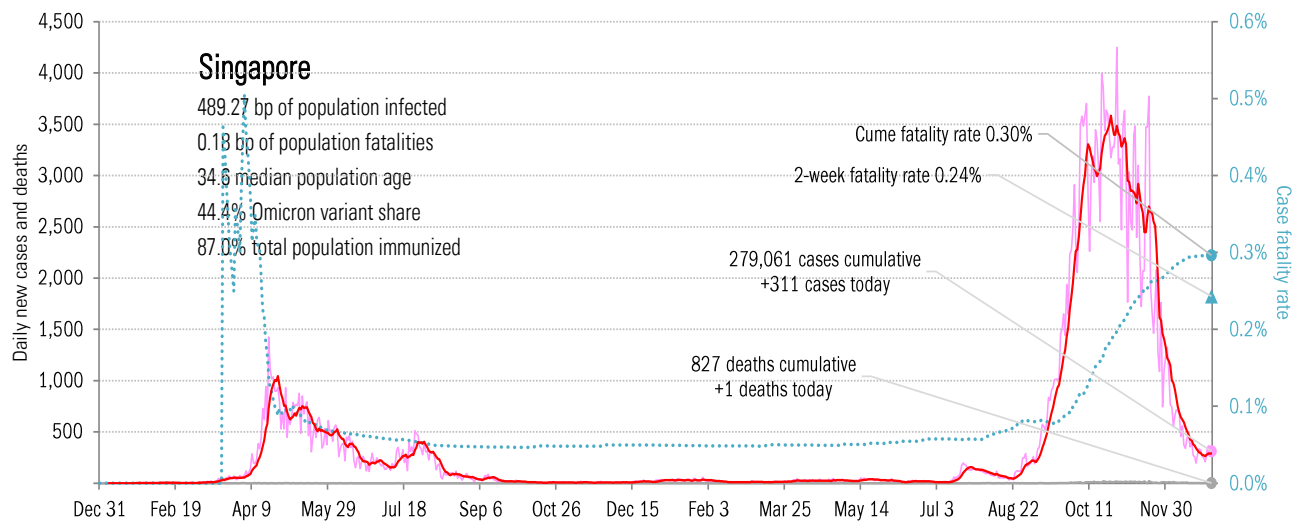
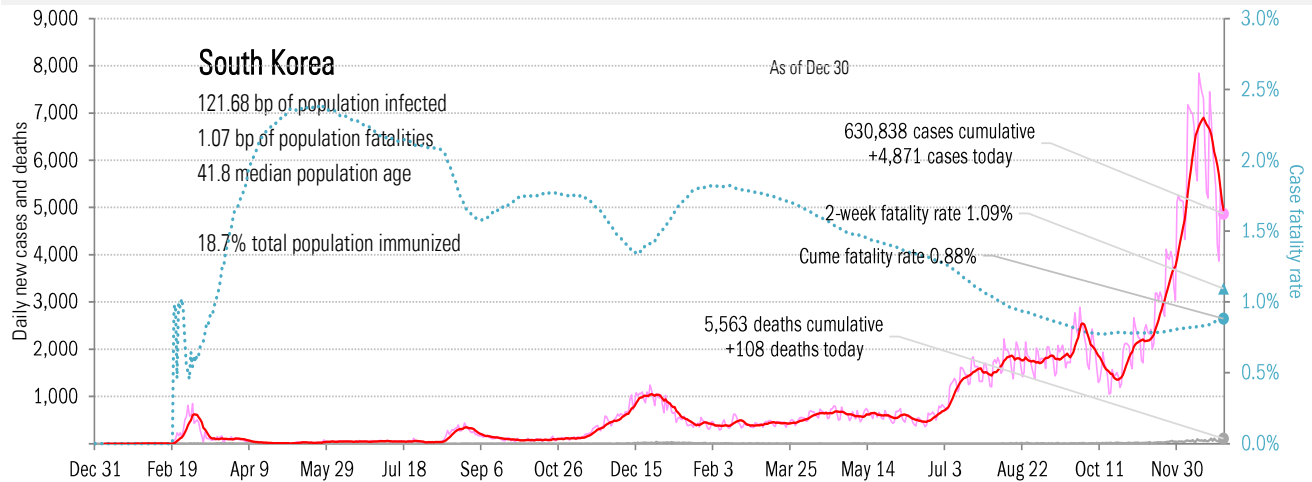
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

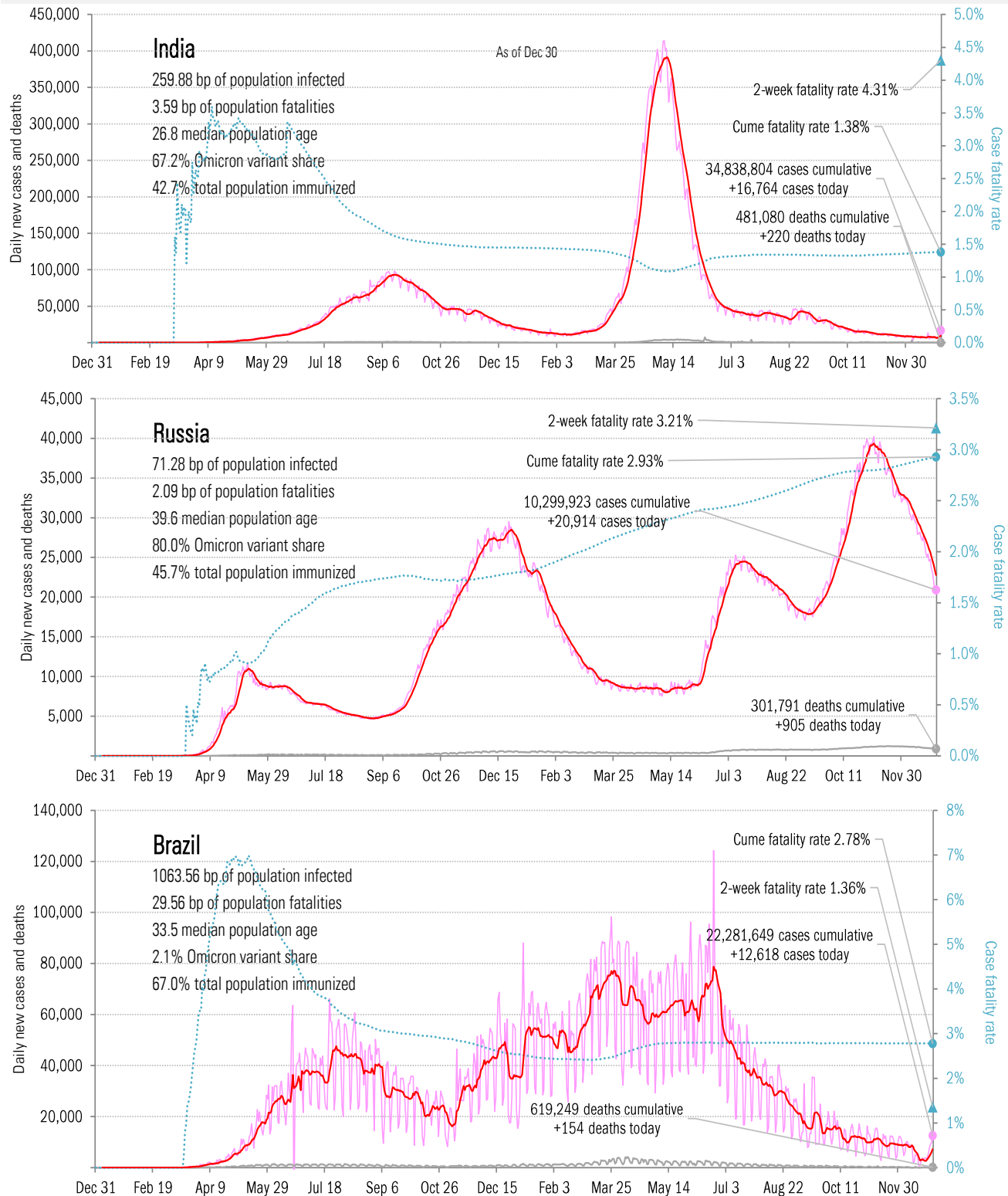
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

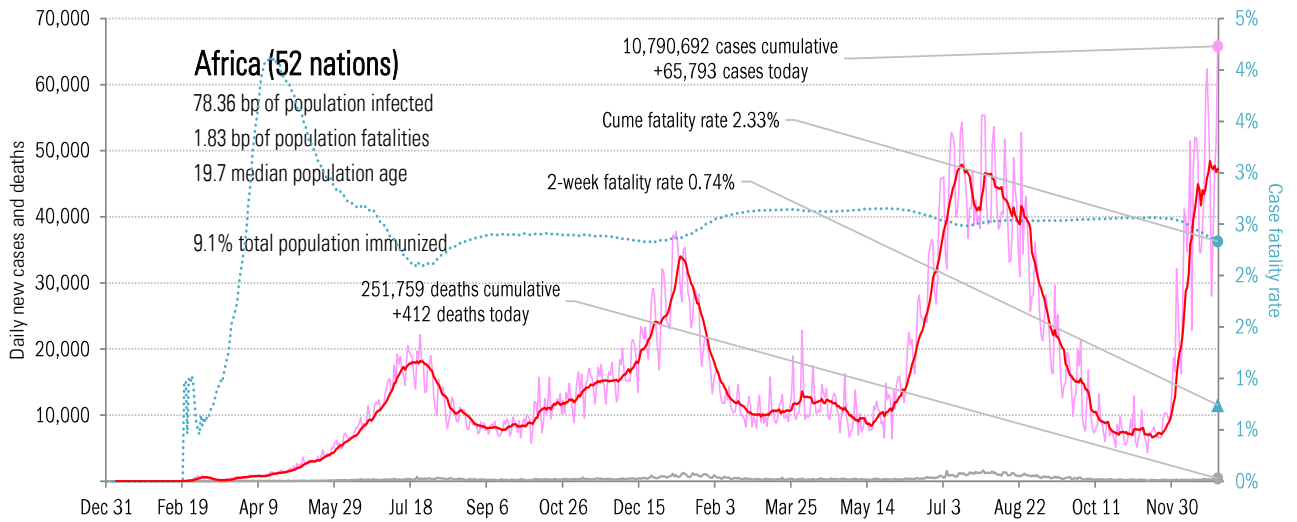
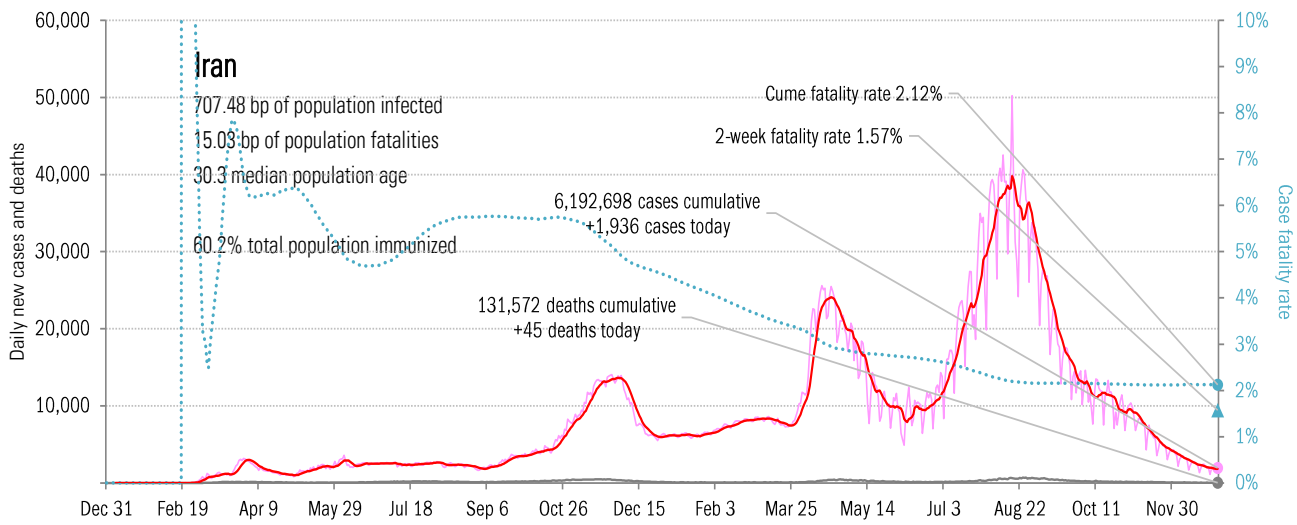
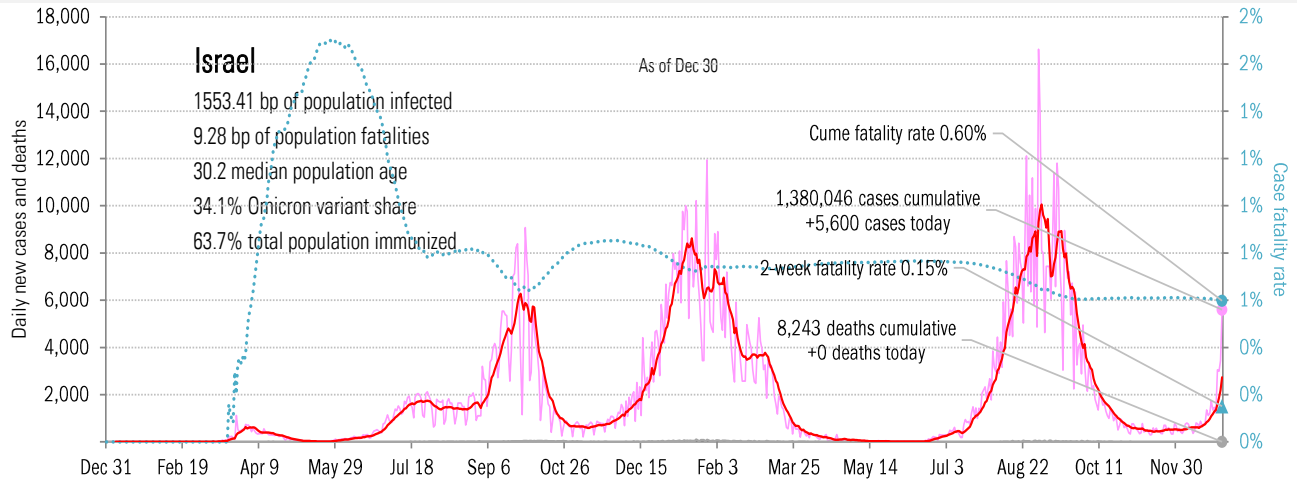
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

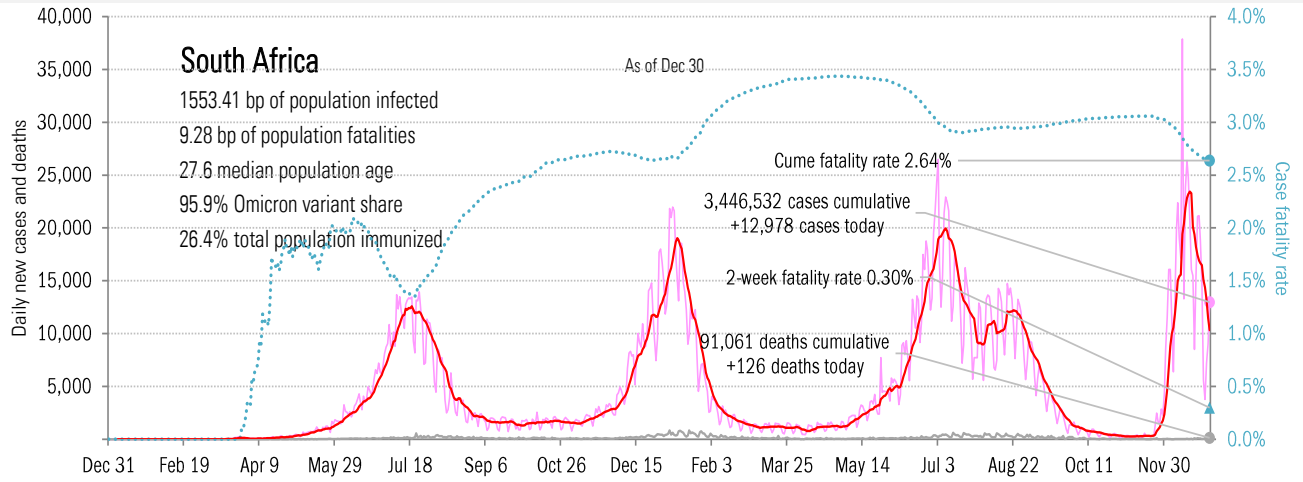
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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