

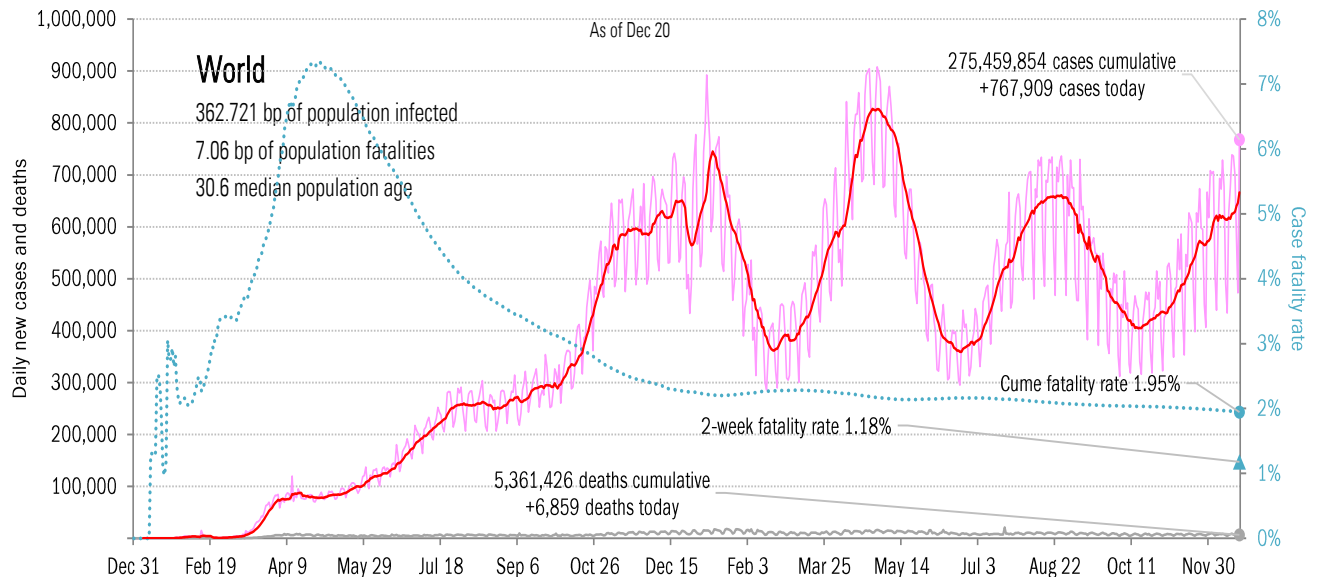
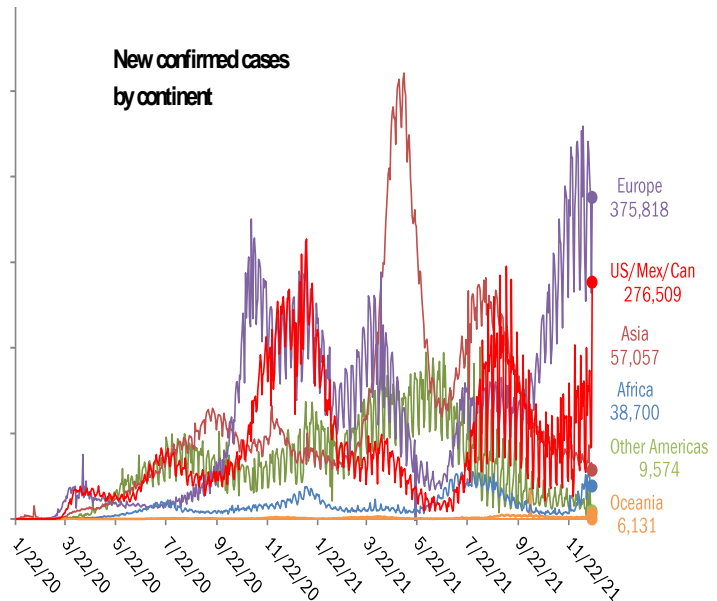
Data Insights: Covid-2019 Monitor

Tuesday, December 21, 2021

The global scorecard

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

The worst ten countries			
New cases		New Deaths	
United States	+258,074	United States	+1,496
United Kingdom	+92,598	Russia	+995
Spain	+79,704	Germany	+462
Russia	+26,744	India	+453
Germany	+21,742	Hungary	+366
Switzerland	+20,487	Vietnam	+225
Turkey	+18,762	France	+224
Belgium	+17,390	Ukraine	+181
Canada	+16,878	Turkey	+176
Italy	+16,205	Bulgaria	+157
+568,584		+4,735	
World	+767,909	World	+6,859
Top ten	74%	Top ten	69%



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

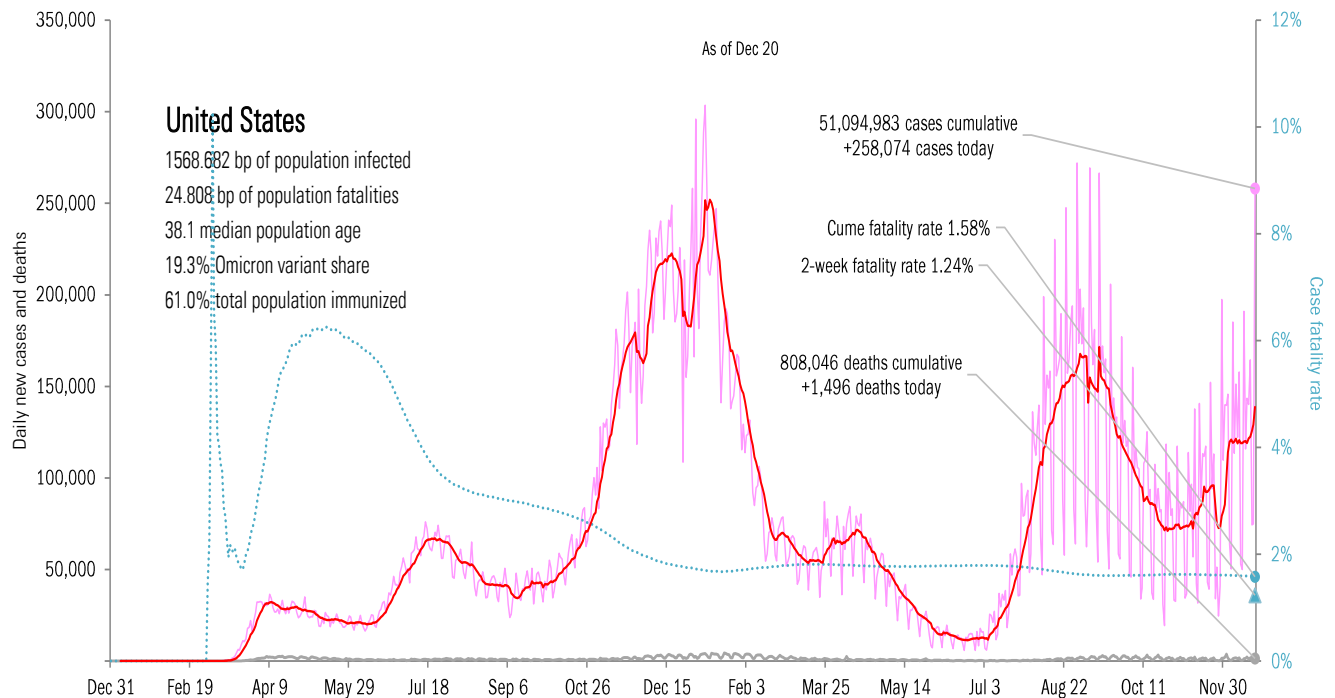
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
IL	+31,459		MI	+162		GA	+128		CA	5,226,183		CA	75,826		TX	392,484		RI	89%	NM	91%
NY	+22,578		IL	+111		FL	+115		TX	4,442,404		TX	75,099		CA	328,074		KY	86%	TX	89%
CA	+19,227		IN	+104		NY	+95		FL	3,777,084		FL	62,358		FL	327,675		MA	85%	R	88%
MI	+15,221		CA	+99		TX	+45		NY	2,982,994		NY	53,649		NY	182,107		PA	84%	NH	88%
MA	+14,212		WI	+96		IL	+44		IL	1,975,515		PA	35,418		GA	166,233		MD	83%	DE	88%
IN	+10,894		KY	+93		IN	+37		PA	1,894,514		GA	31,038		CH	147,350		GA	83%	MI	87%
NC	+10,541		TN	+68		NJ	+30		CH	1,855,222		IL	29,661		PA	137,201		CT	83%	MO	87%
TX	+10,430		OK	+64		CT	+29		GA	1,700,763		NJ	28,730		IL	119,233		AZ	83%	KY	86%
VA	+10,308		CO	+54		MD	+29		MI	1,629,362		CH	28,028		KY	118,167		MI	82%	AL	86%
GA	+9,089		VA	+53		CH	+27		NC	1,599,595		MI	27,901		MI	113,066		MN	82%	MN	85%
+153,959			+904			+579			27,083,636			452,708			2,031,590						
All states	+258,074		+1,496			+558			All states	51,094,983		808,046			3,669,116			All states	70%	67%	
Top ten	60%		60%			104%			Top ten	53%		56%			55%			Median	76%	78%	

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NY	-3,385	FL	-84	CA	-61	MP	+20 bp
PA	-2,976	NY	-11	NM	-31	PA	+20 bp
AZ	-569	AZ	-3	UT	-31	AR	+10 bp
FR	-313	H	-2	MS	-25	AZ	+10 bp
NJ	-250	MO	-1	NC	-25	CA	+10 bp

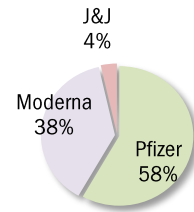


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	509,338,343	+1.148 million	US	61.0%	72.9%
Boosters	61,779,176	+0.662 million	UK	69.0%	75.5%
	One dose	% Pop	Immune	% pop	New immune today
Total population	247,840,277	74%	209,226,356	62%	+0.174 million
Age 12 to 17	15,029,398	63%	12,618,843	53%	+0.012 million
Age 18 to 64	167,625,565	82%	142,600,202	70%	+0.079 million
Age 65 and over	58,094,821	100%	49,566,632	90%	+0.012 million

France	72.1%	77.7%
Spain	80.9%	83.5%
Germany	69.8%	72.8%
Italy	73.7%	79.4%
Australia	76.0%	78.9%
Israel	62.9%	69.6%
Canada	77.0%	82.8%
Japan	78.0%	79.5%
Africa	8.6%	13.3%
India	39.5%	59.5%
Brazil	66.2%	77.3%
China	82.6%	84.8%



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

Every American >18 immunized in **116 days** by Apr 14, 2022
 74.3% of population >18 immunized
 18.0% previously tested positive
92.2% vs 60% adult herd immunity

Global data differs due to sources, timing

AK
64.4%
55.9%

WI
67.6%
61.5%

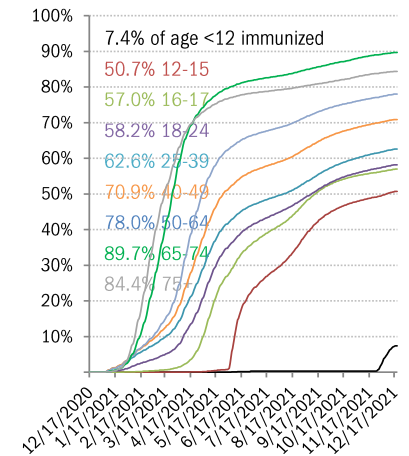
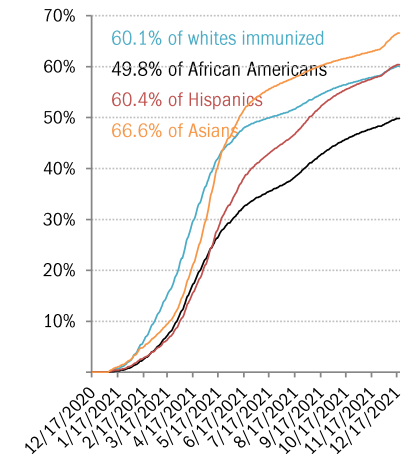
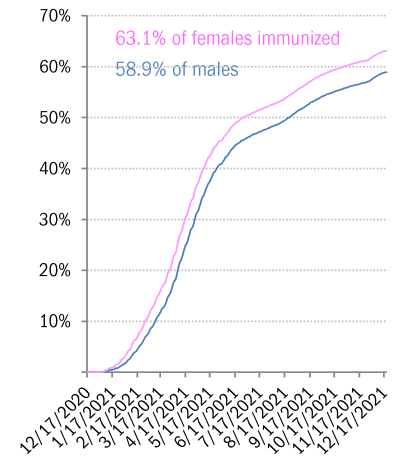
ME
84.7%
75.1%

As of Dec 20

WA: 74.7% / 67.3%	ID: 51.8% / 46.0%	MT: 61.5% / 53.6%	ND: 61.6% / 52.0%	MN: 70.8% / 65.0%	IL: 71.5% / 63.8%	MI: 62.9% / 56.3%	NY: 82.3% / 71.1%	VT: 88.2% / 76.6%	NH: 94.9% / 66.4%	
OR: 73.4% / 66.0%	NV: 68.6% / 56.0%	WY: 55.2% / 47.0%	SD: 69.7% / 56.4%	IA: 64.1% / 58.4%	IN: 57.4% / 51.7%	OH: 60.0% / 54.9%	PA: 85.2% / 61.0%	NJ: 82.3% / 69.9%	MA: 89.3% / 74.0%	
CA: 81.7% / 65.5%	UT: 66.5% / 57.9%	CO: 73.7% / 65.6%	NE: 65.7% / 59.2%	MO: 61.8% / 52.7%	KY: 61.9% / 53.8%	WV: 89.7% / 71.6%	VA: 78.0% / 67.5%	MD: 79.3% / 69.8%	CT: 87.3% / 74.1%	RI: 87.1% / 75.7%
	AZ: 66.5% / 56.5%	NM: 79.7% / 65.7%	KS: 68.4% / 56.5%	AR: 62.1% / 50.8%	TN: 58.1% / 50.9%	NC: 74.5% / 56.2%	SC: 62.1% / 52.7%	DC: 86.5% / 66.9%	DE: 75.6% / 63.5%	
		OK: 65.1% / 53.0%	LA: 56.8% / 49.9%	MS: 55.2% / 48.0%	AL: 57.9% / 47.2%	GA: 60.4% / 50.4%				
		TX: 66.0% / 56.4%						FL: 73.7% / 62.9%		PR: 87.7% / 76.4%

HI
83.8%
62.6%

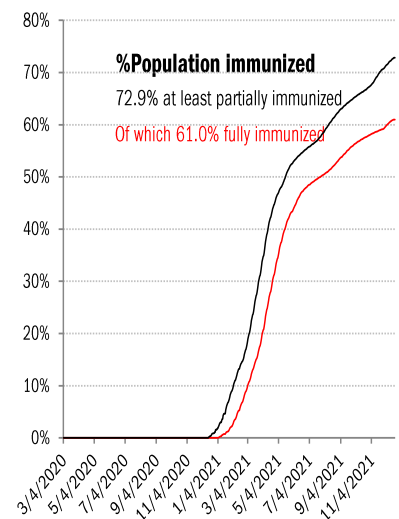
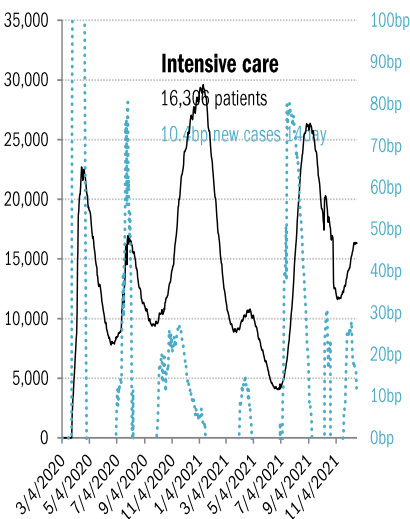
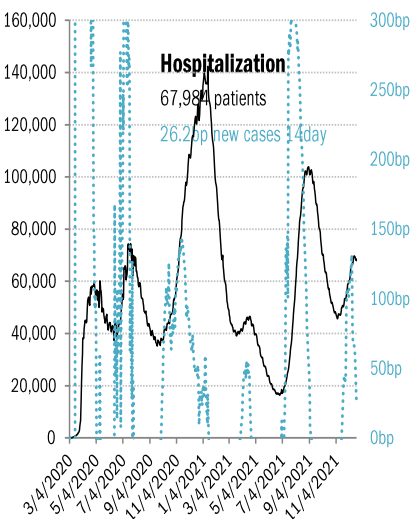
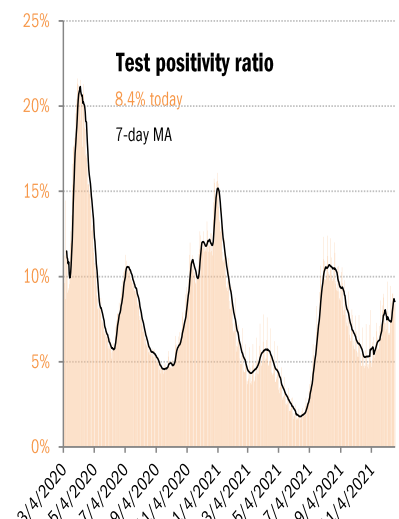
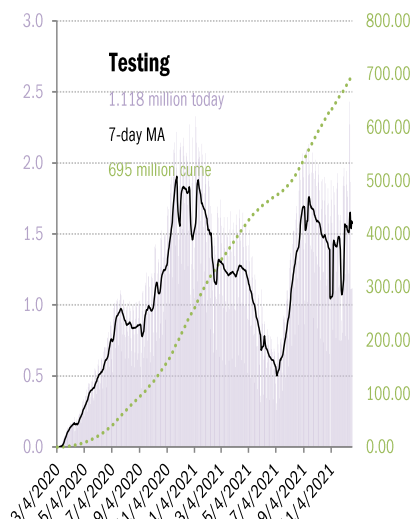
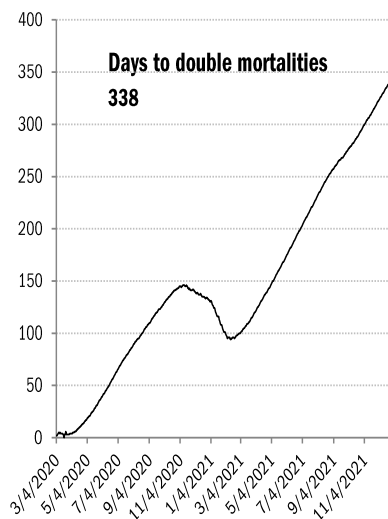
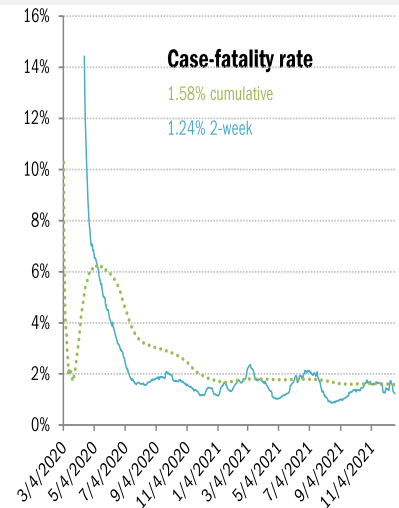
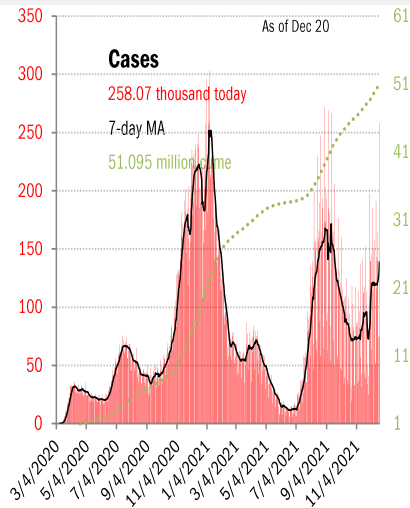
The demographics of US vaccination



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

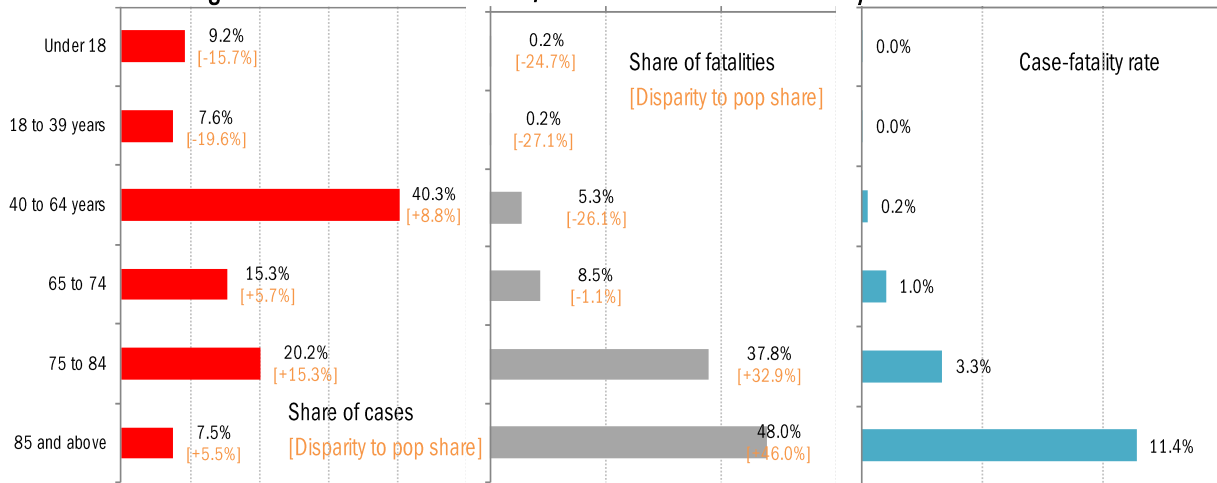
US deep-dive

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

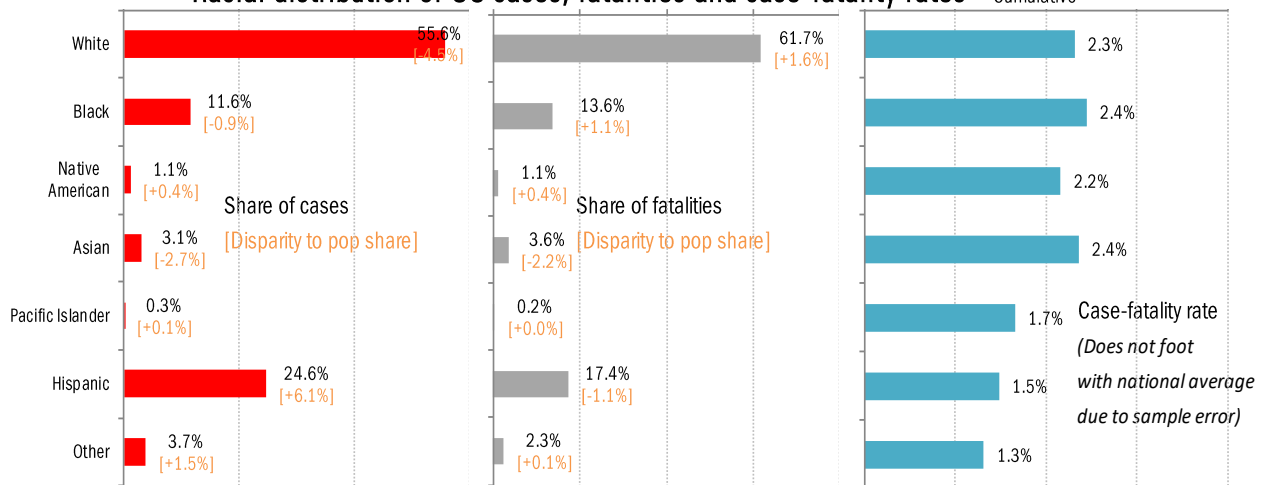


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

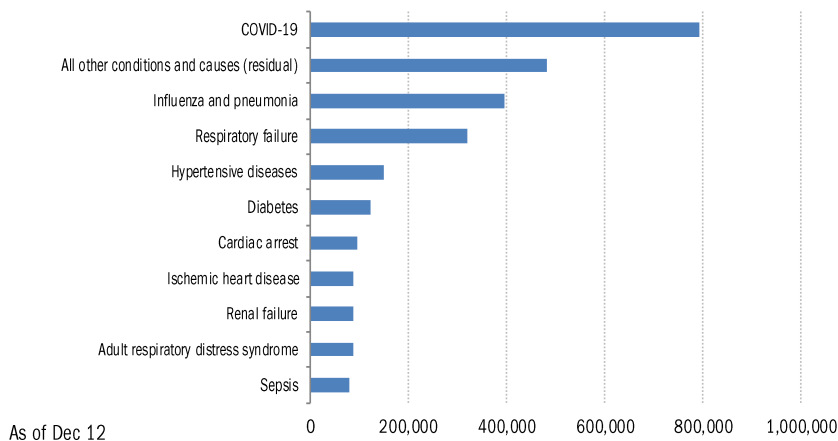


Racial distribution of US cases, fatalities and case-fatality rates



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

[Biden Administration to Distribute 500 Million At-Home Covid-19 Test Kits](#)

Sabrina Siddiqui and Andrew Restuccia
Wall Street Journal
December 21, 2021

[The Supreme Court's Covid Vaccine Test](#)

Wall Street Journal
December 20, 2021

[Carnival's long-term demand indicates Omicron threat will fade soon](#)

Praveen Paramasivam and Ananya Mariam Rajesh
Reuters
December 20, 2021

[Fear in a time of Covid](#)

Paul Dolan
The Critic
December 20, 2021

[Anthony Fauci, Political Thug](#)

John Hinderaker
Power Line Blog
December 19, 2021

[Breakthrough infections generate 'super immunity' to COVID-19, study suggests](#)

Erik Robinson
Oregon Health & Science University
December 16, 2021

[Antibody Response and Variant Cross-Neutralization After SARS-CoV-2 Breakthrough Infection](#)

Timothy A. Bates et al.
Jama Network
December 16, 2021

[Move over Superman, COVID-19 'super immunity' possible after breakthrough infections, study finds](#)

Shiv Sudhakar
Fox News
December 19, 2021

[Ex-FDA officials, medical experts flog feds for politicizing COVID, misrepresenting evidence](#)

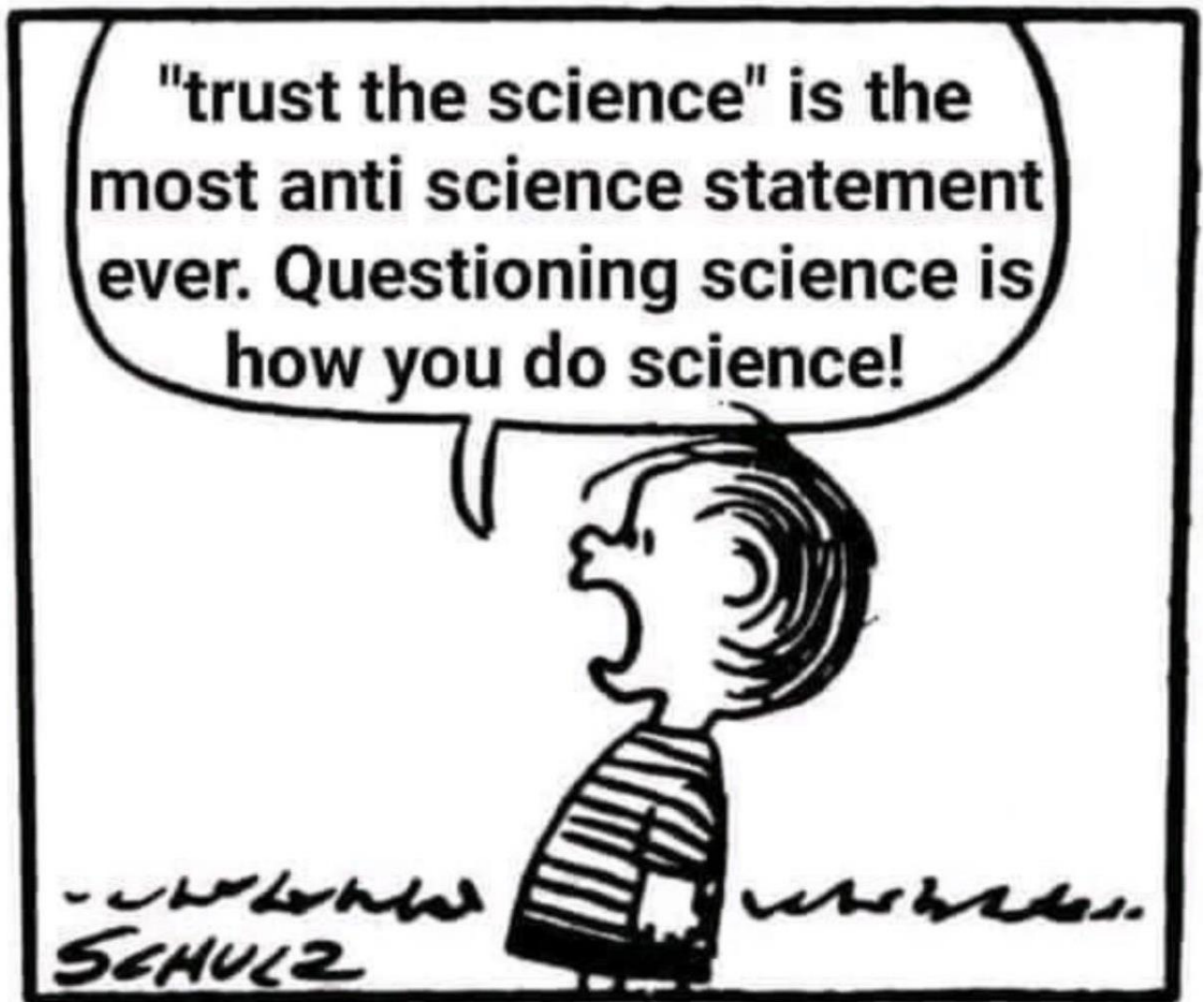
Greg Piper
Just the News
December 16, 2021

[It's time to abolish 'emergency' COVID-19 powers](#)

Glenn Reynolds
New York Post
December 16, 2021

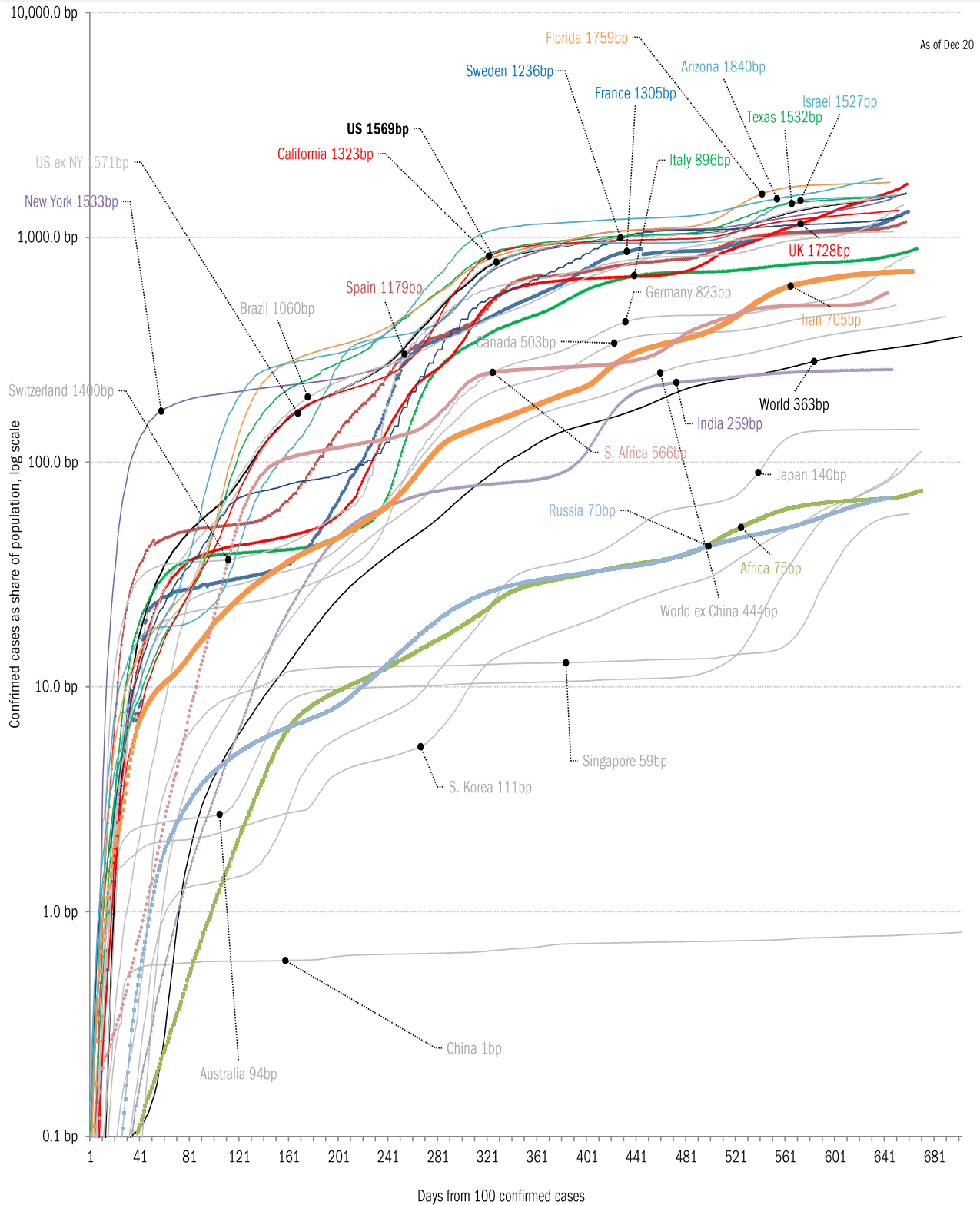
[Fauci Doesn't Expect Lockdowns; Hospitals Likely Stressed](#)

Alan Goldstein
Bloomberg
December 19, 2021



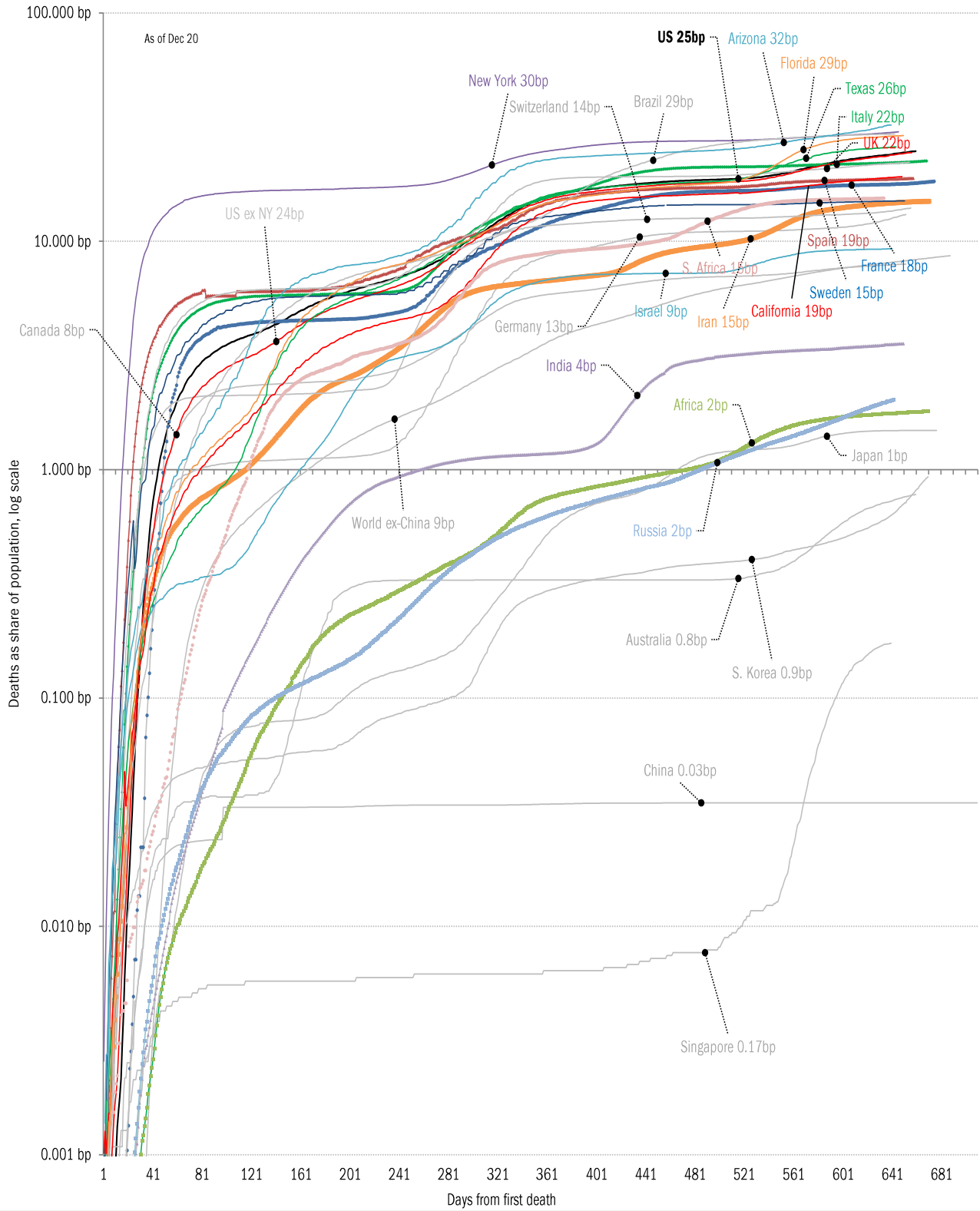
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

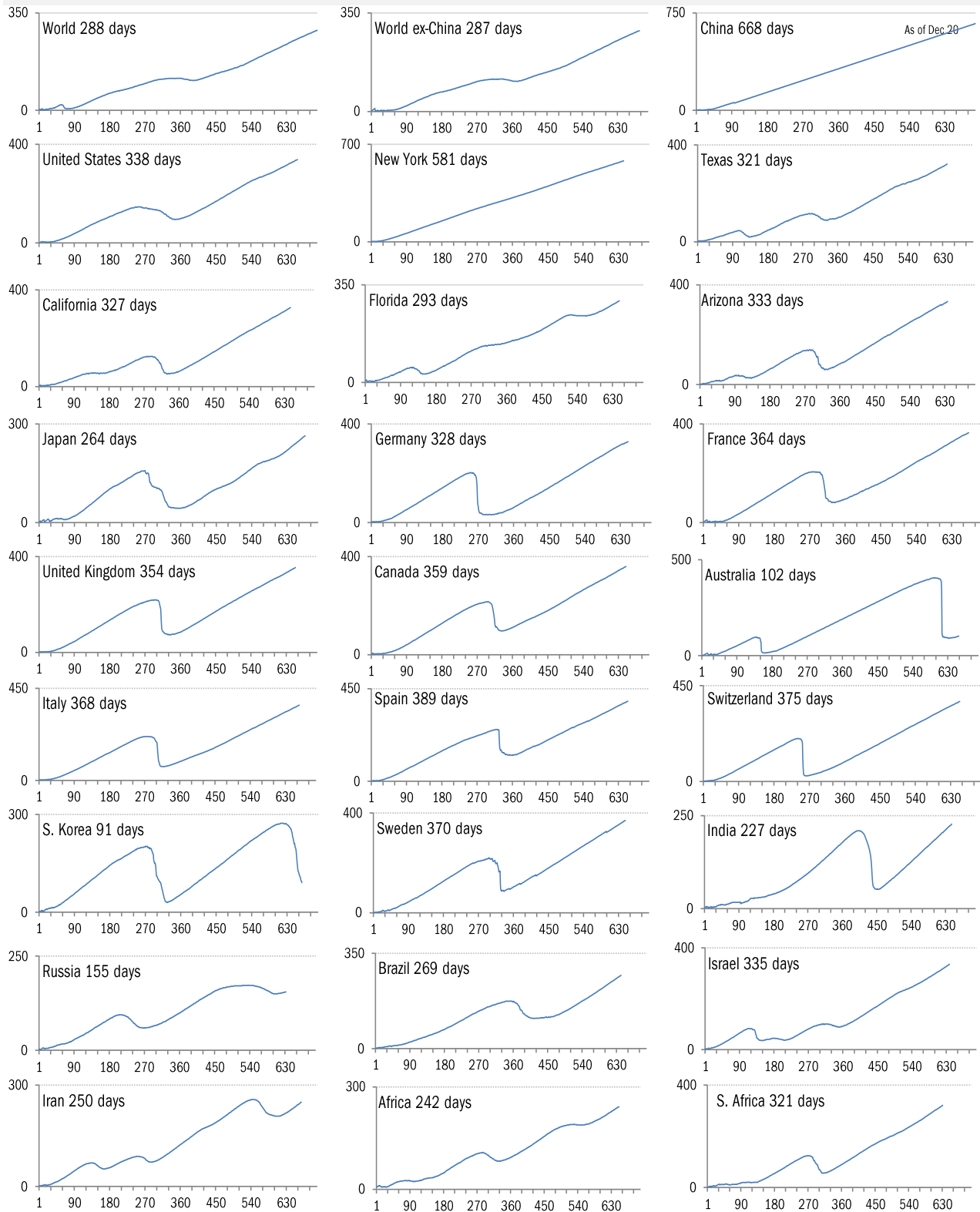


Source: [Johns Hopkins](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-19

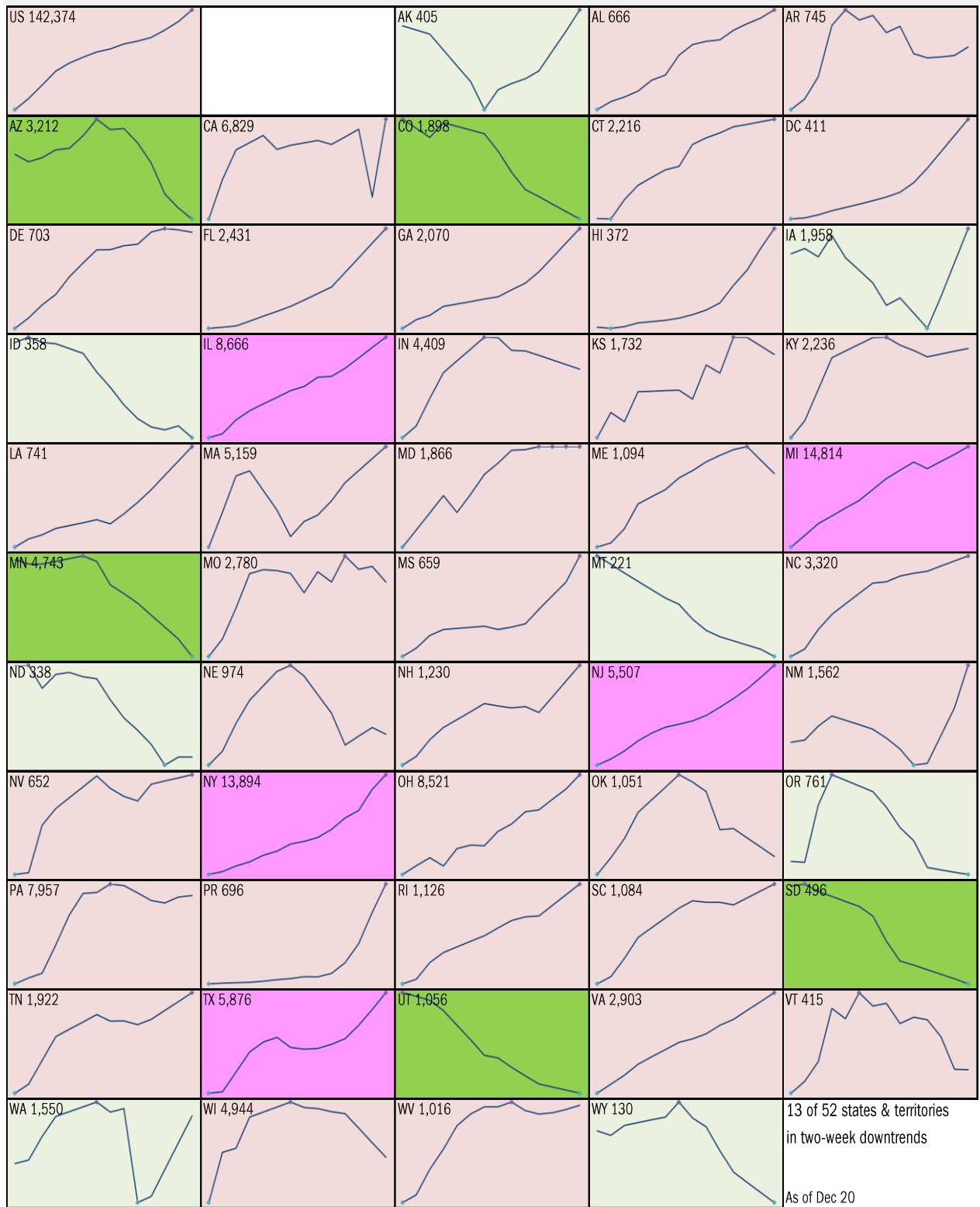
Vertical: days to double deaths Horizontal: days from first death

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

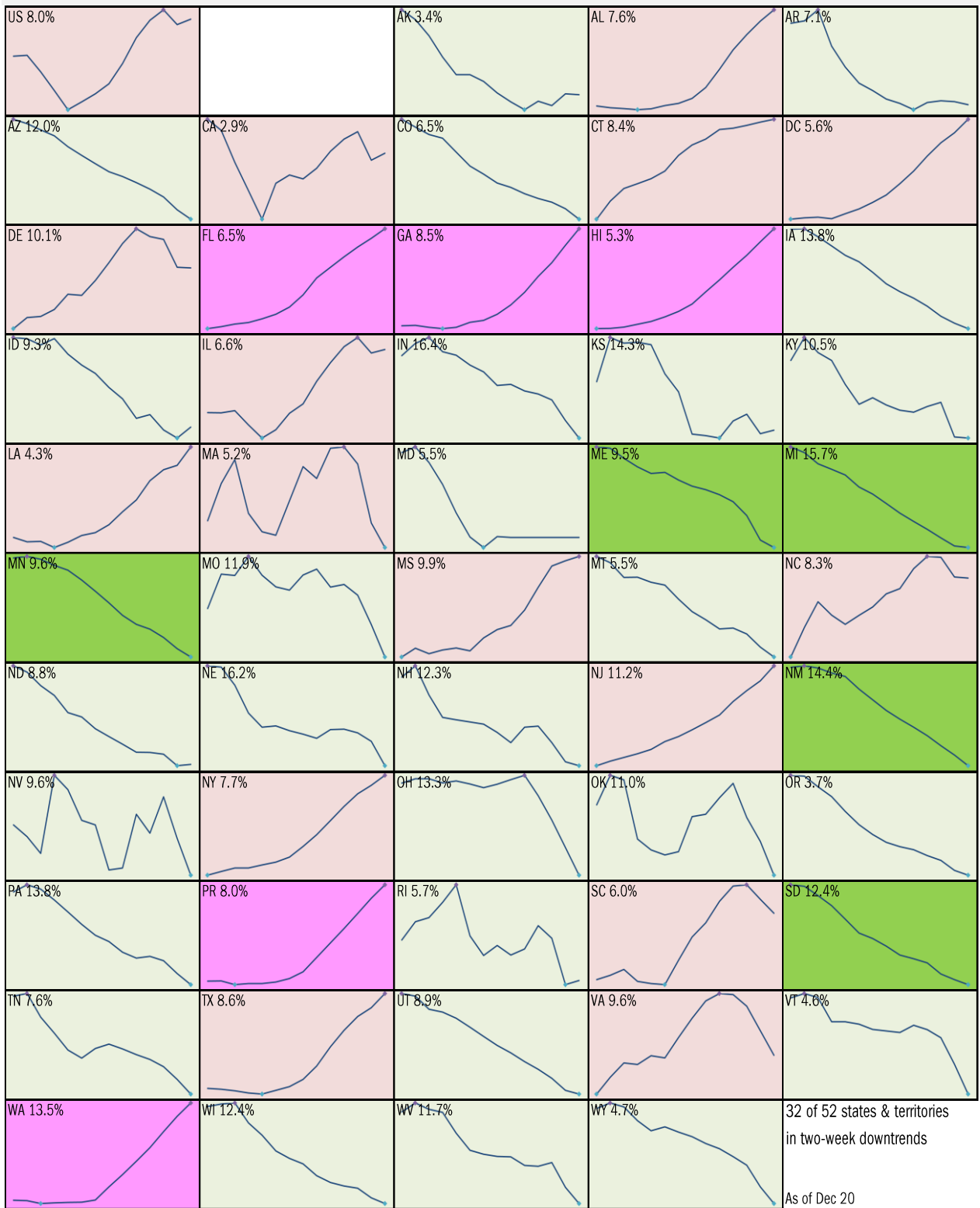


Source: [Johns Hopkins](#), TrendMacro calculations

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

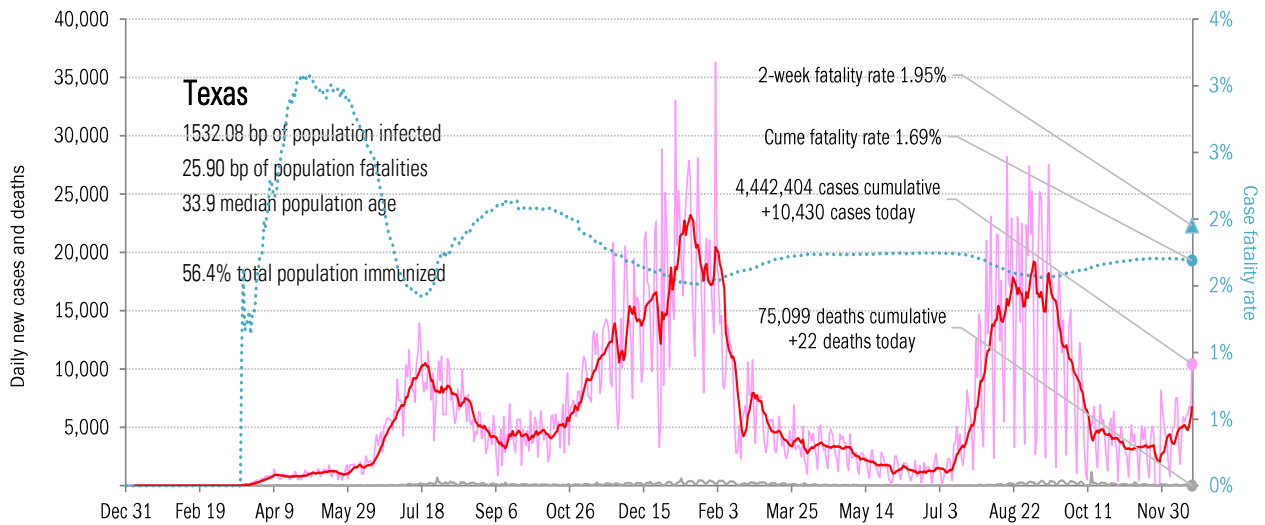
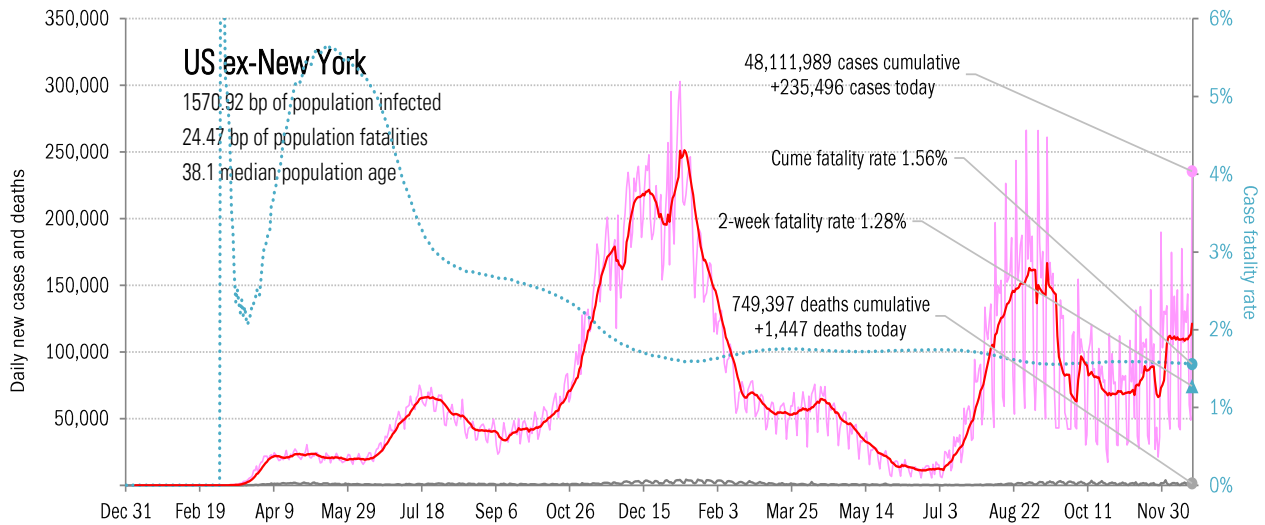
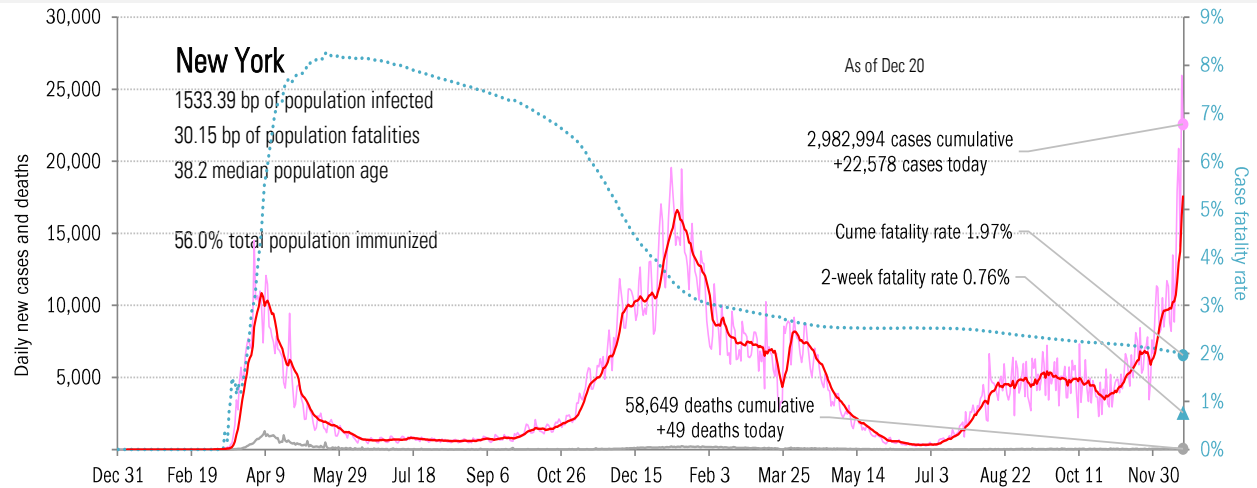
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

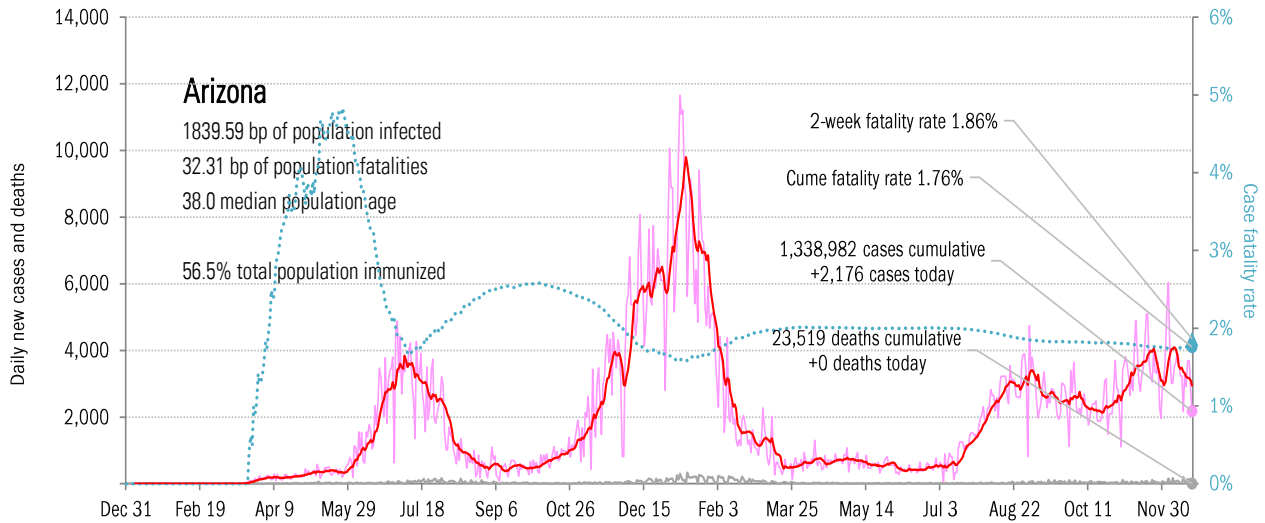
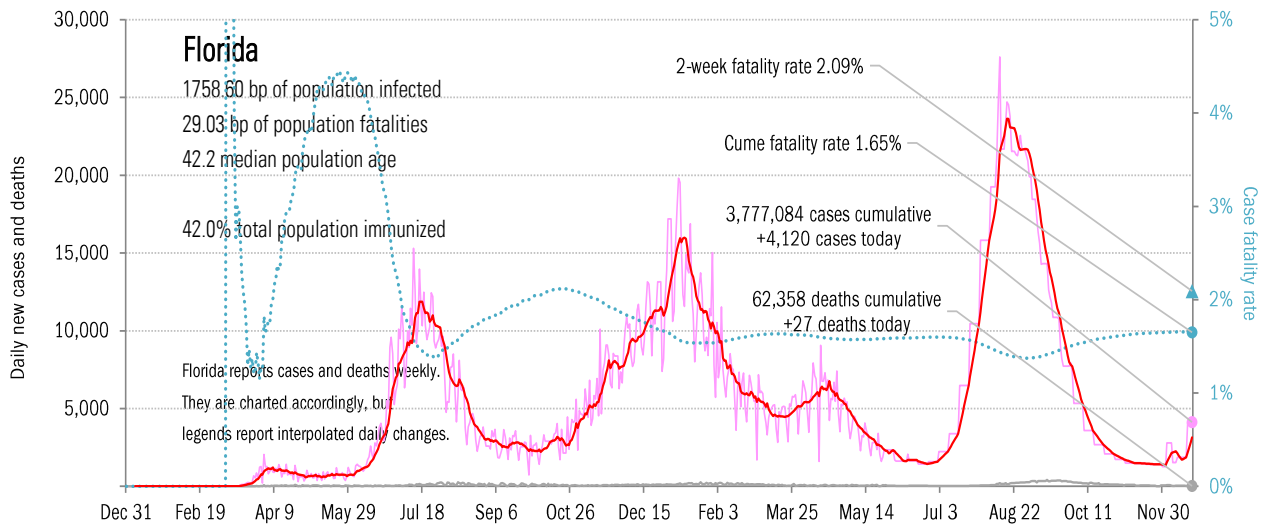
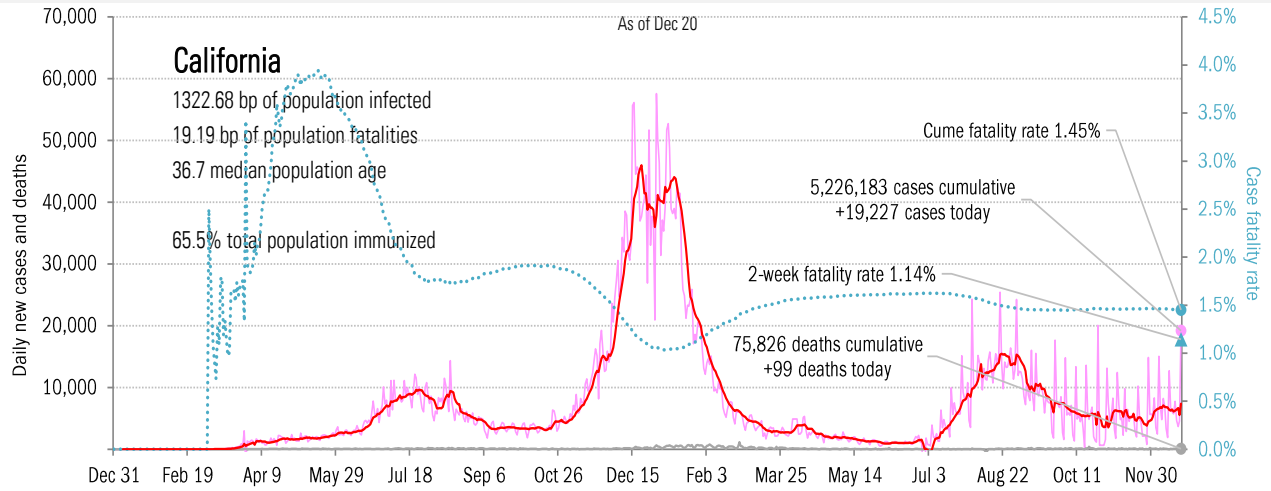
Cases: 7-day average and daily Deaths: Daily



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

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

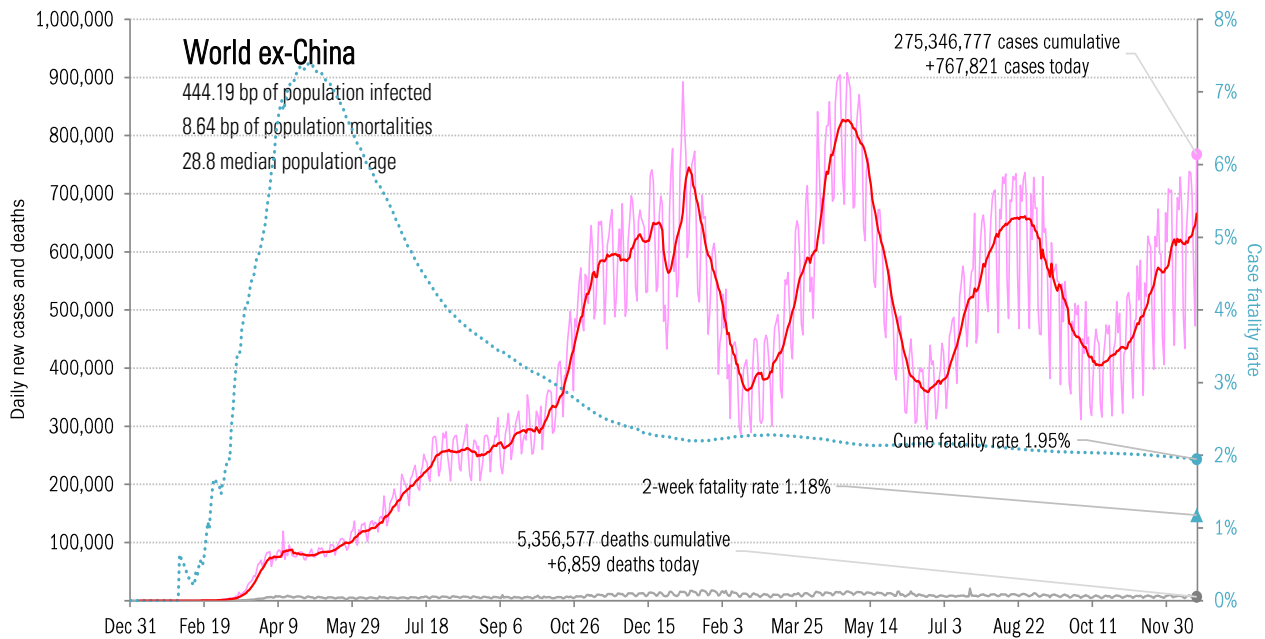
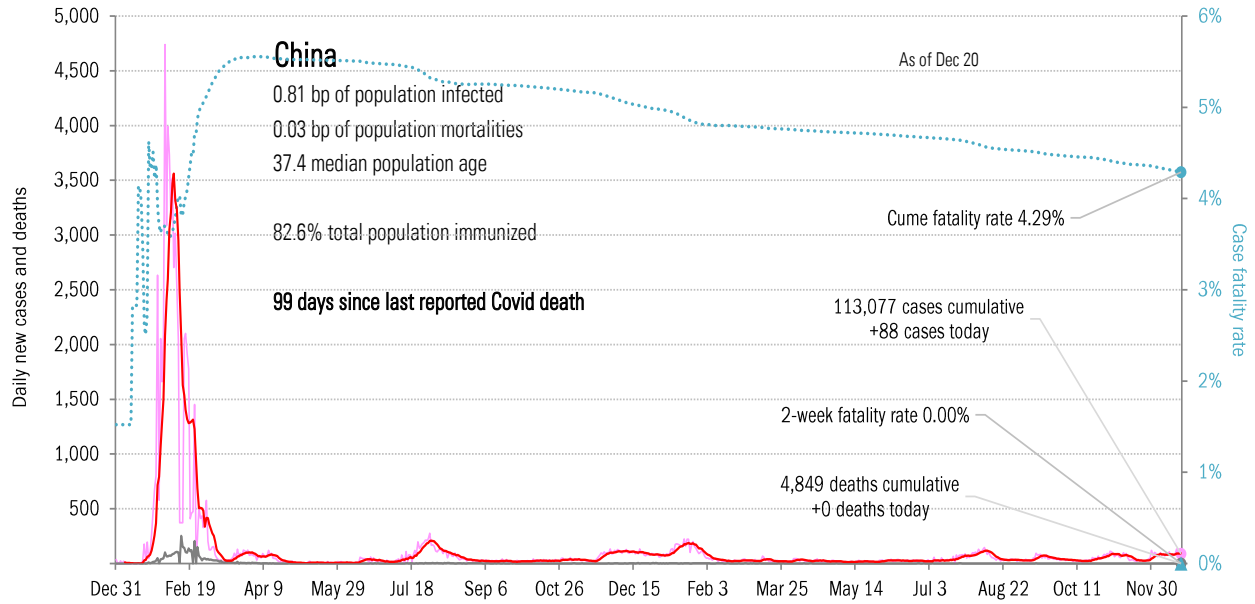
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

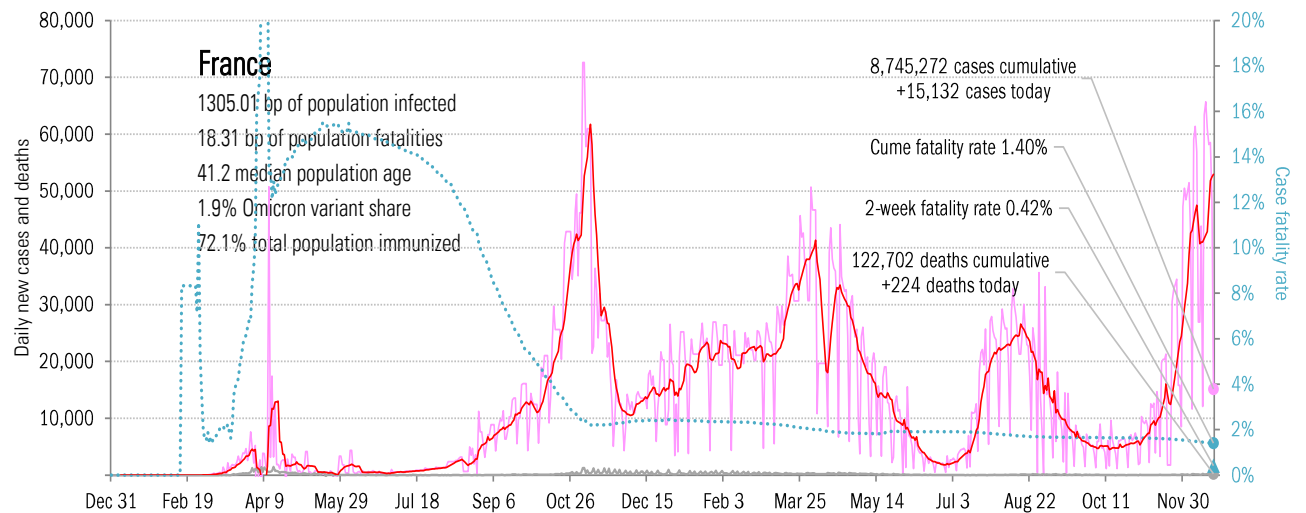
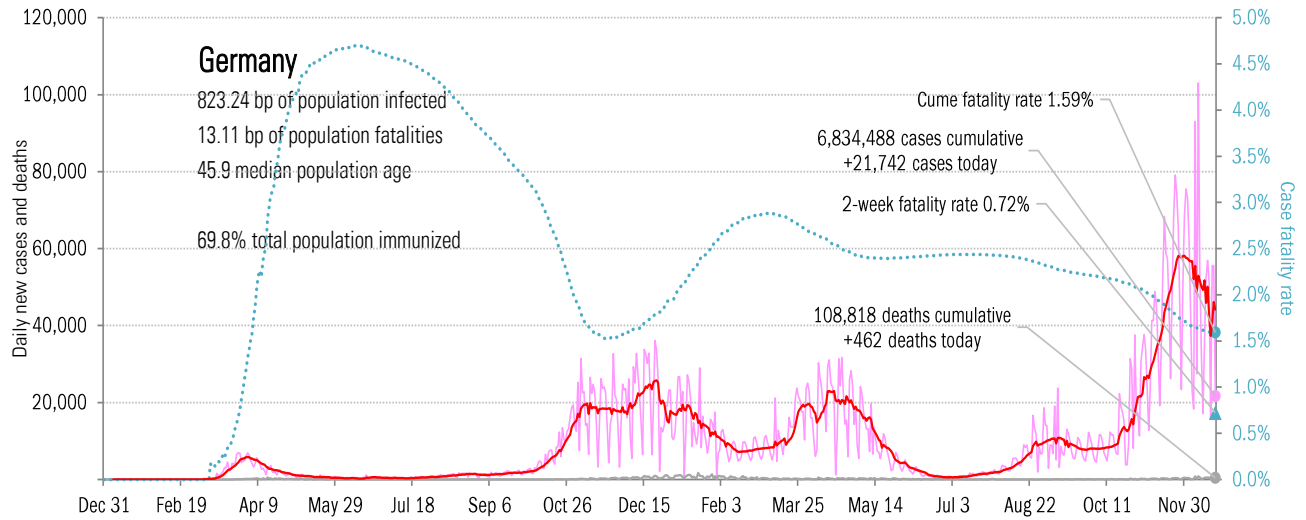
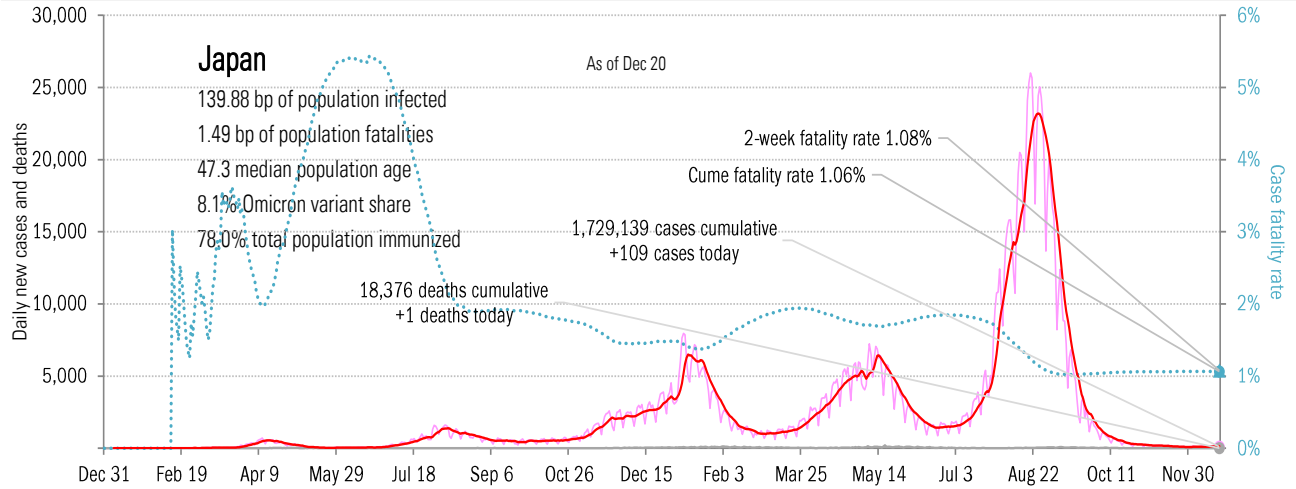
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

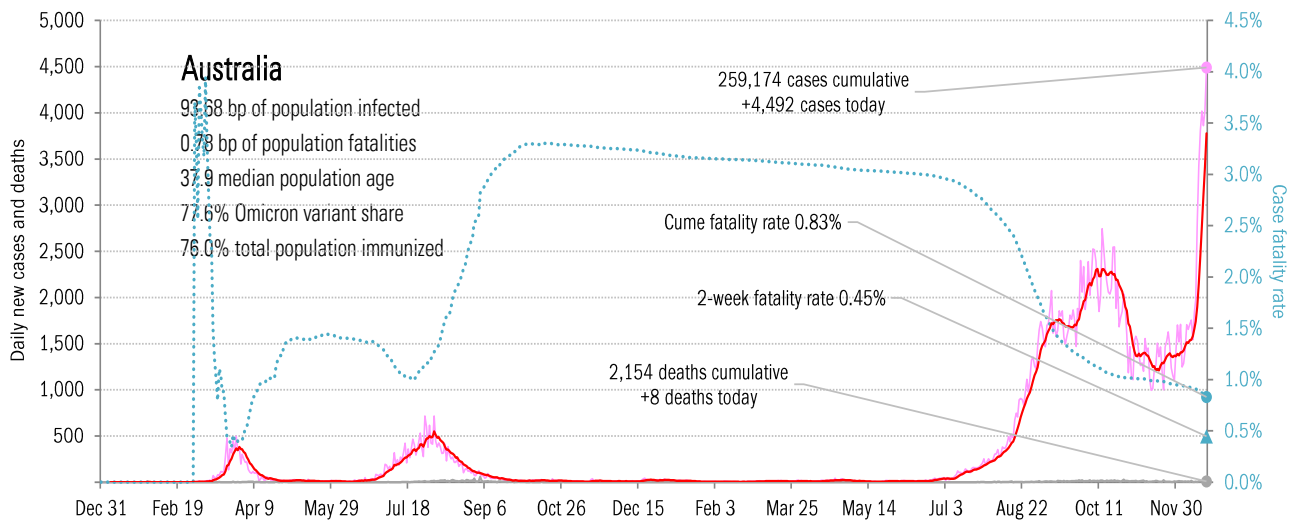
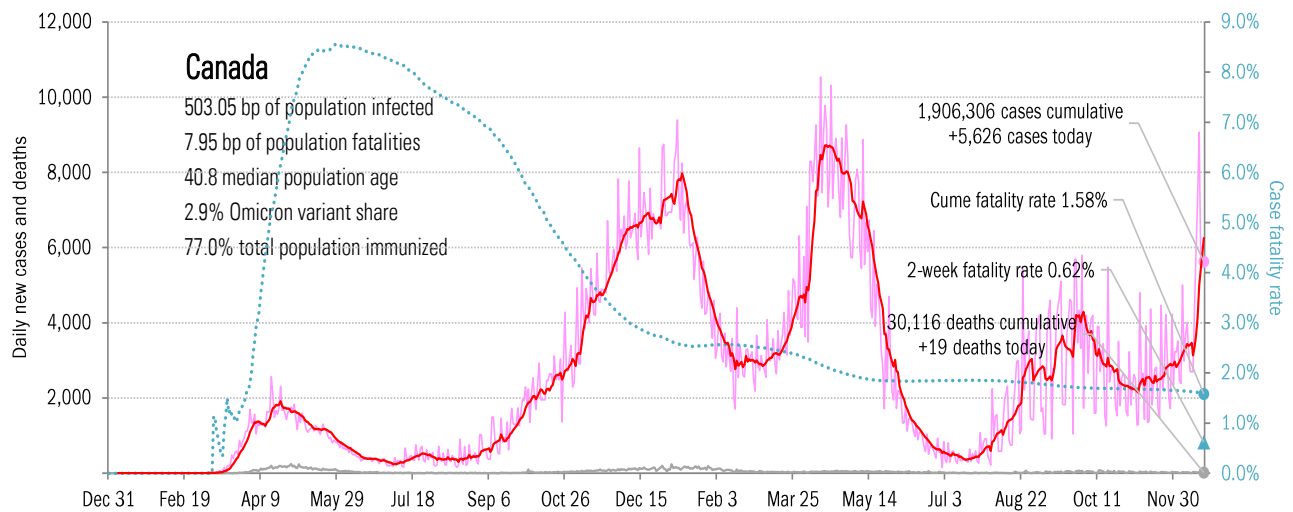
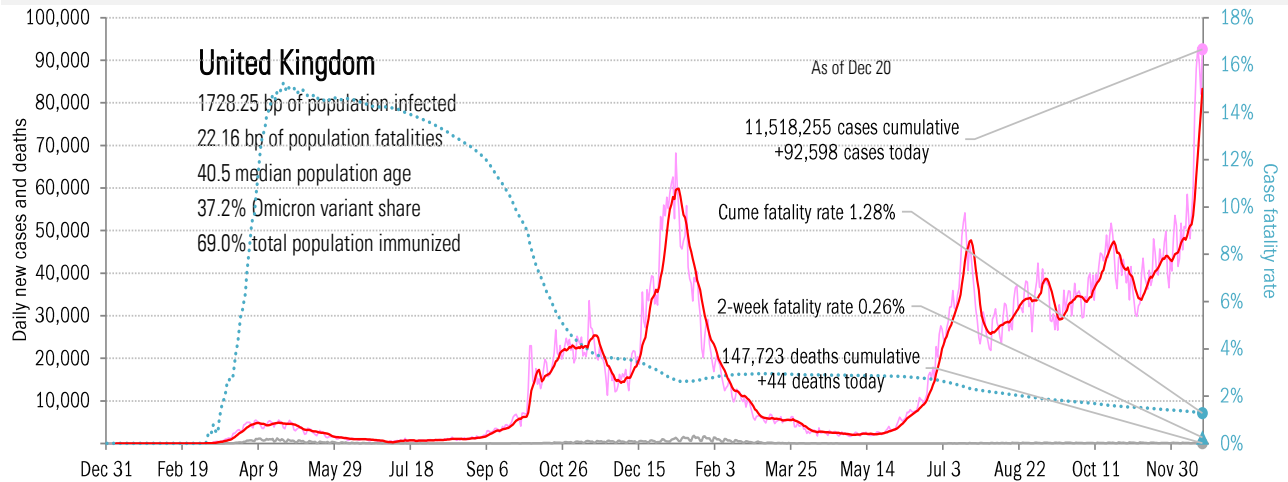
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

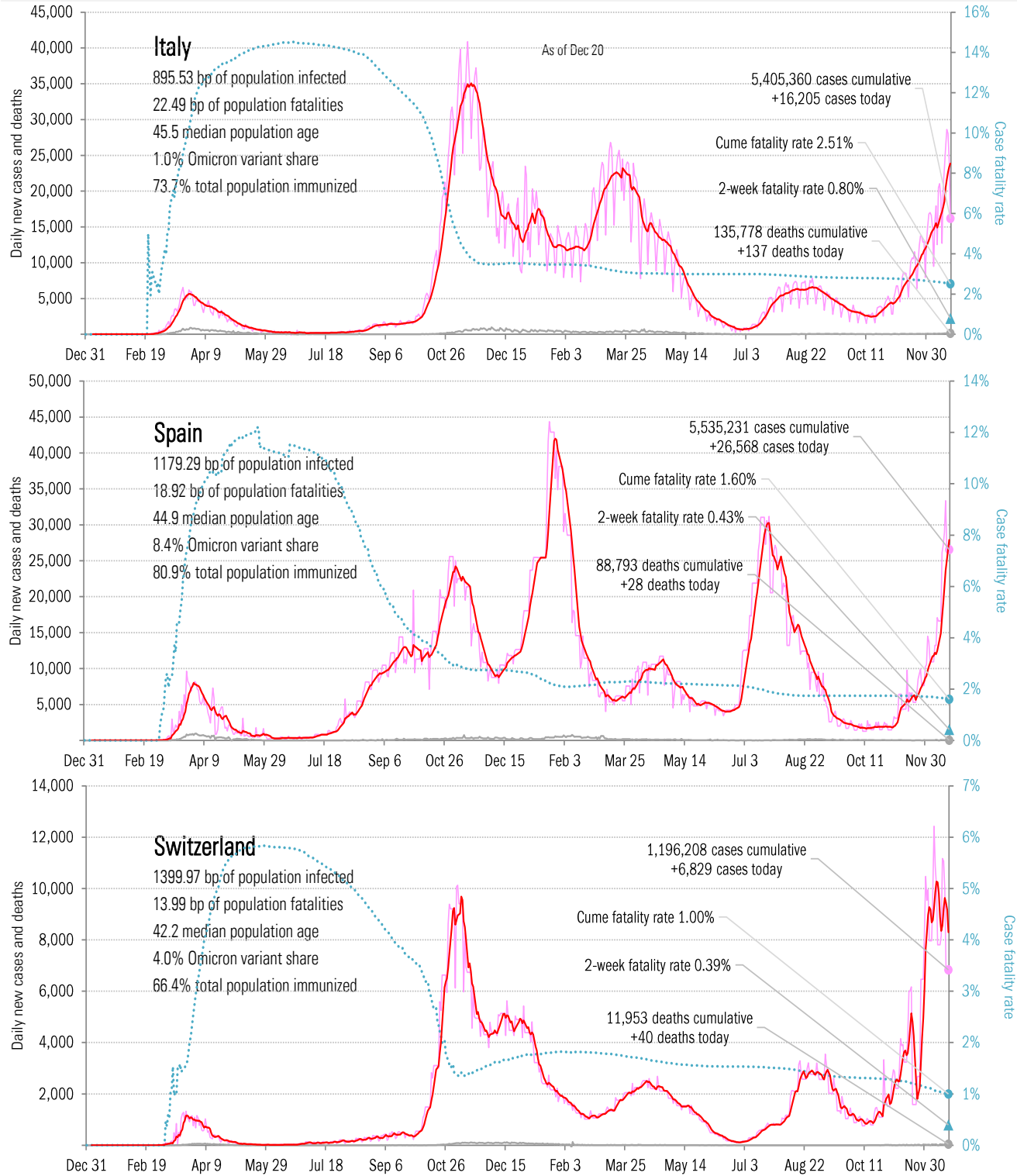
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

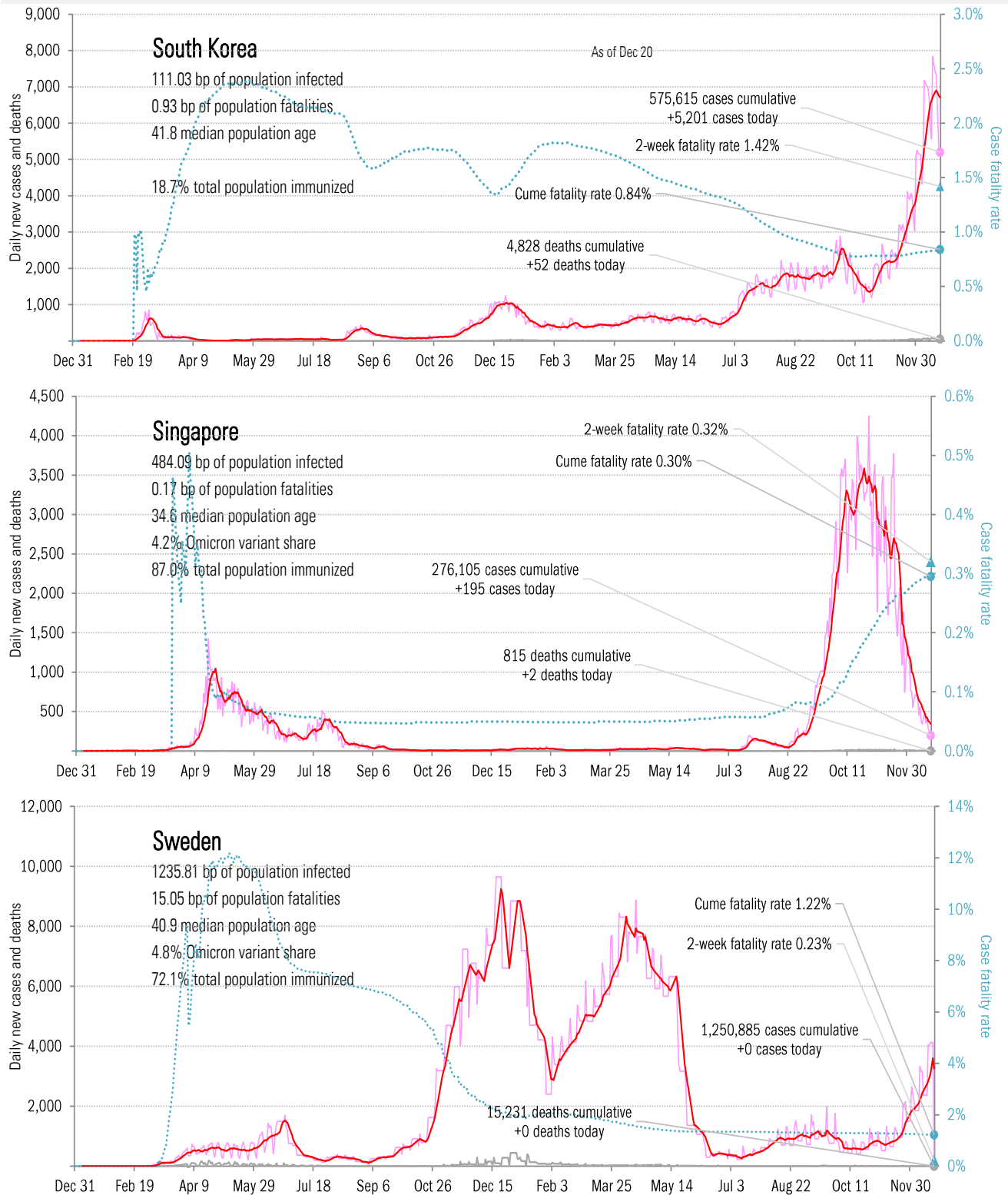
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

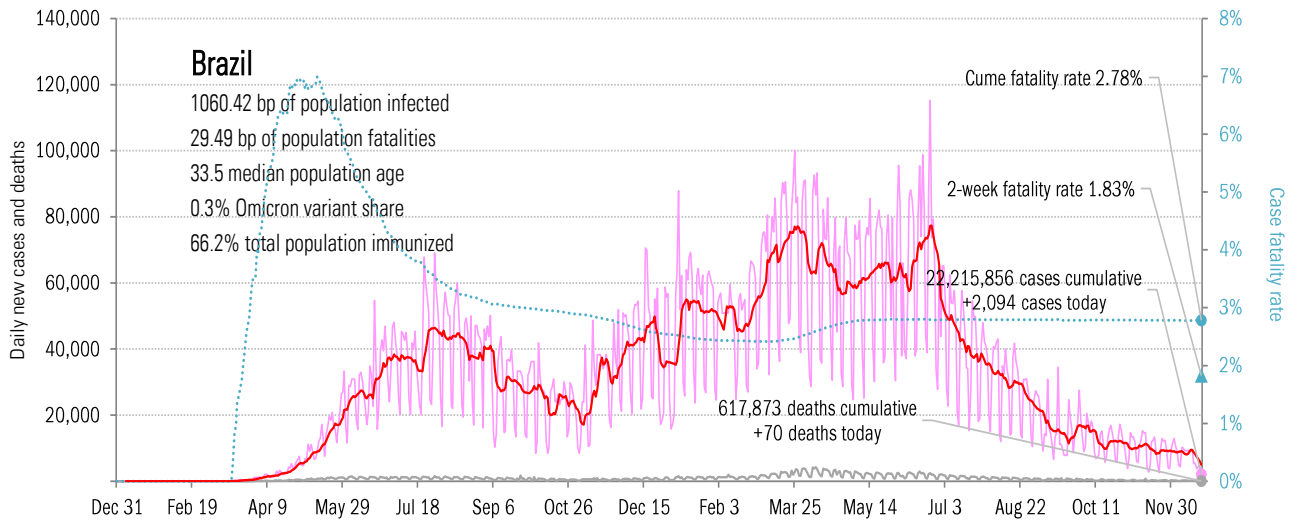
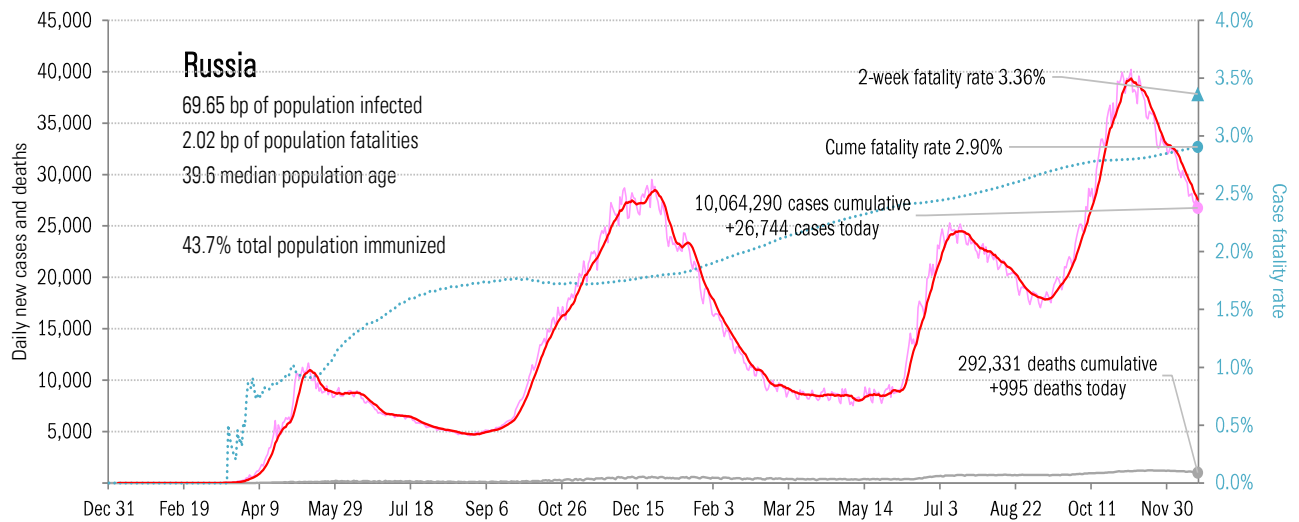
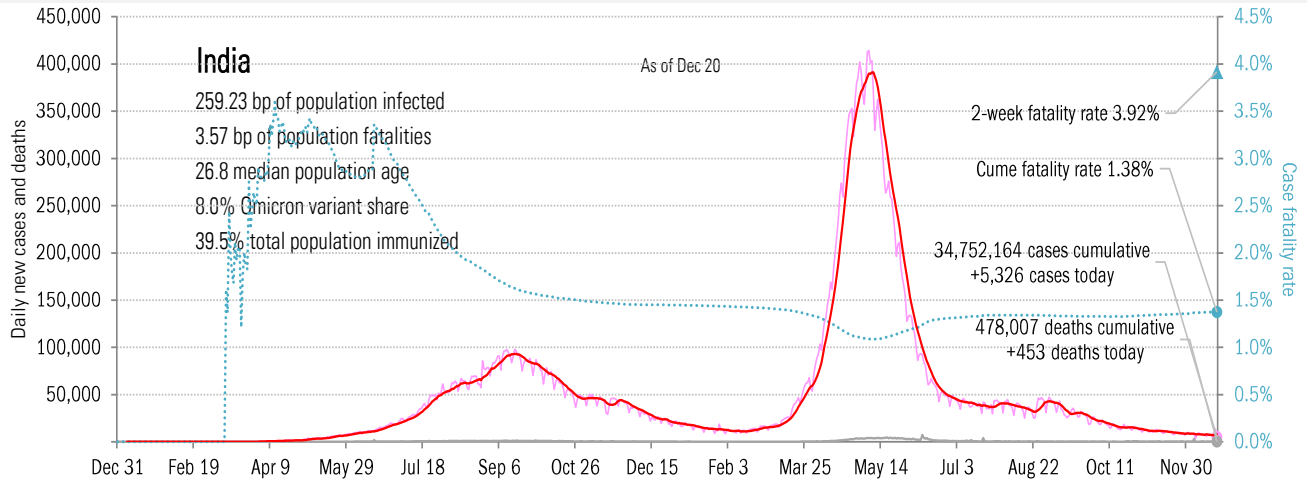
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

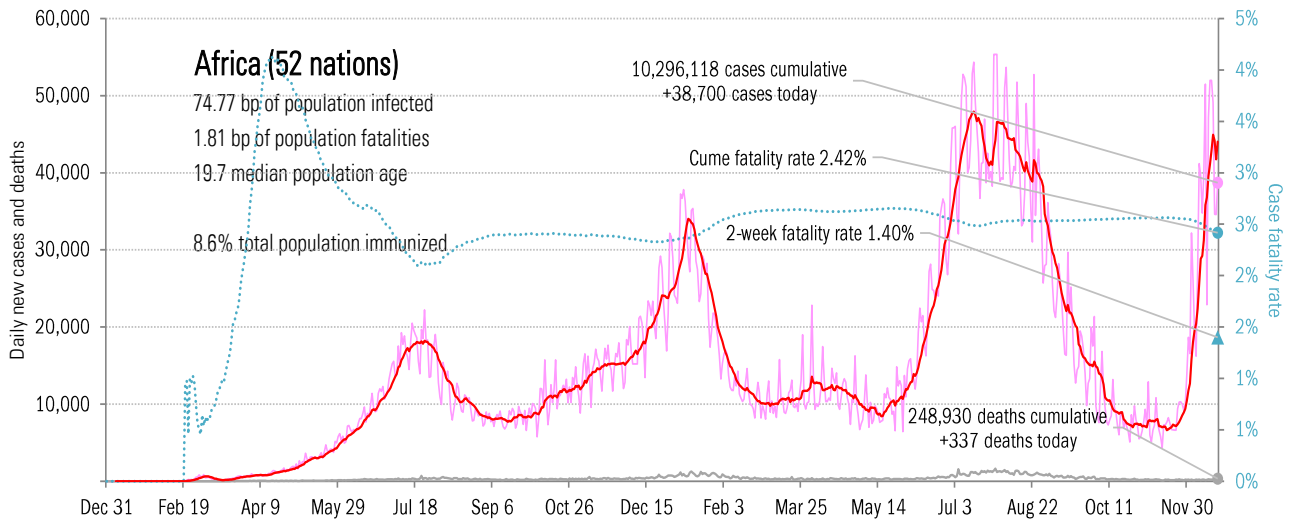
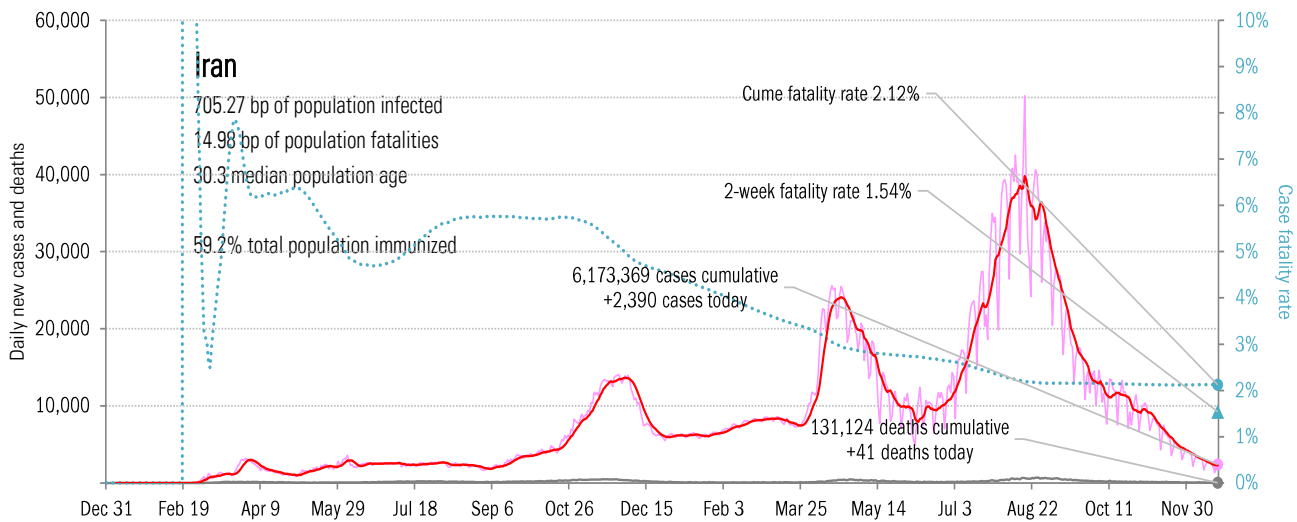
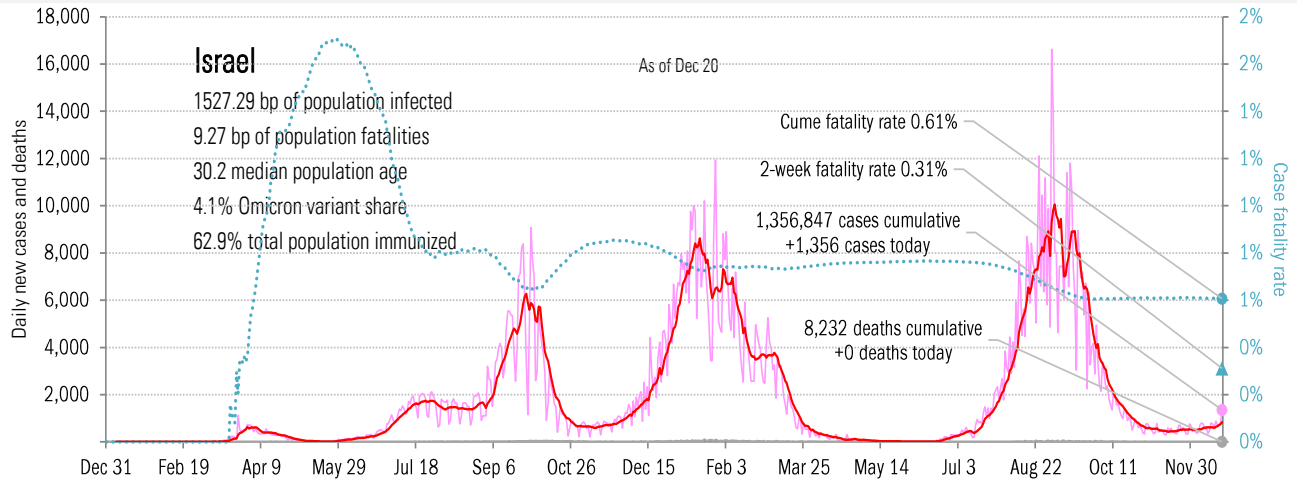
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

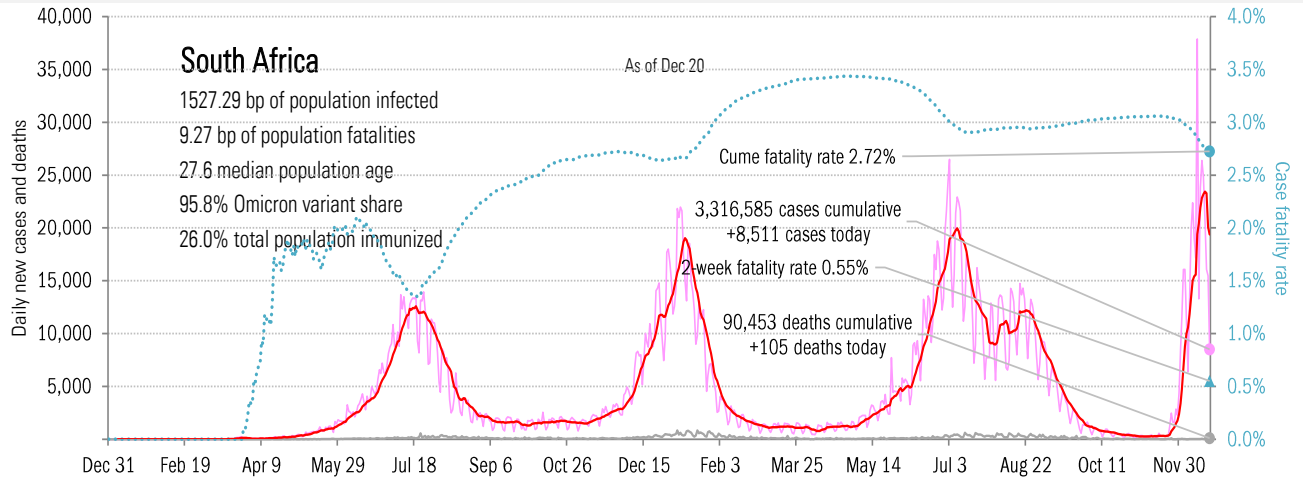
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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