

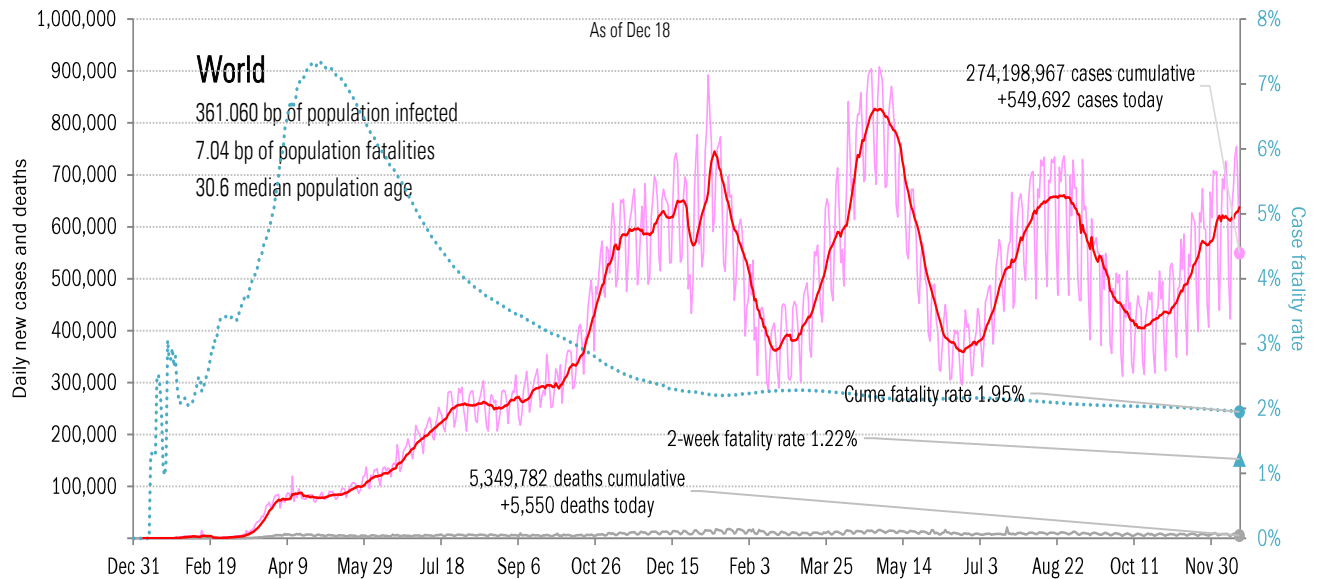
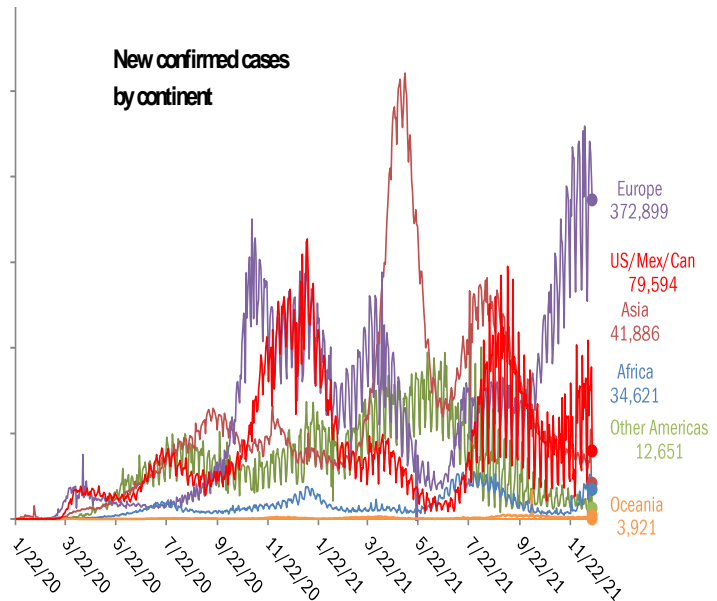
Data Insights: Covid-2019 Monitor

Sunday, December 19, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United Kingdom	+89,190	Russia	+1,048
United States	+71,007	Poland	+543
France	+58,536	United States	+478
Germany	+55,603	Germany	+426
Italy	+28,057	Ukraine	+316
Russia	+27,131	India	+289
Poland	+19,392	Vietnam	+248
South Africa	+16,080	Mexico	+212
Vietnam	+15,895	Belgium	+132
Netherlands	+14,704	United Kingdom	+125
+395,595		+3,817	
World +549,692		World +5,550	
Top ten 72%		Top ten 69%	



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

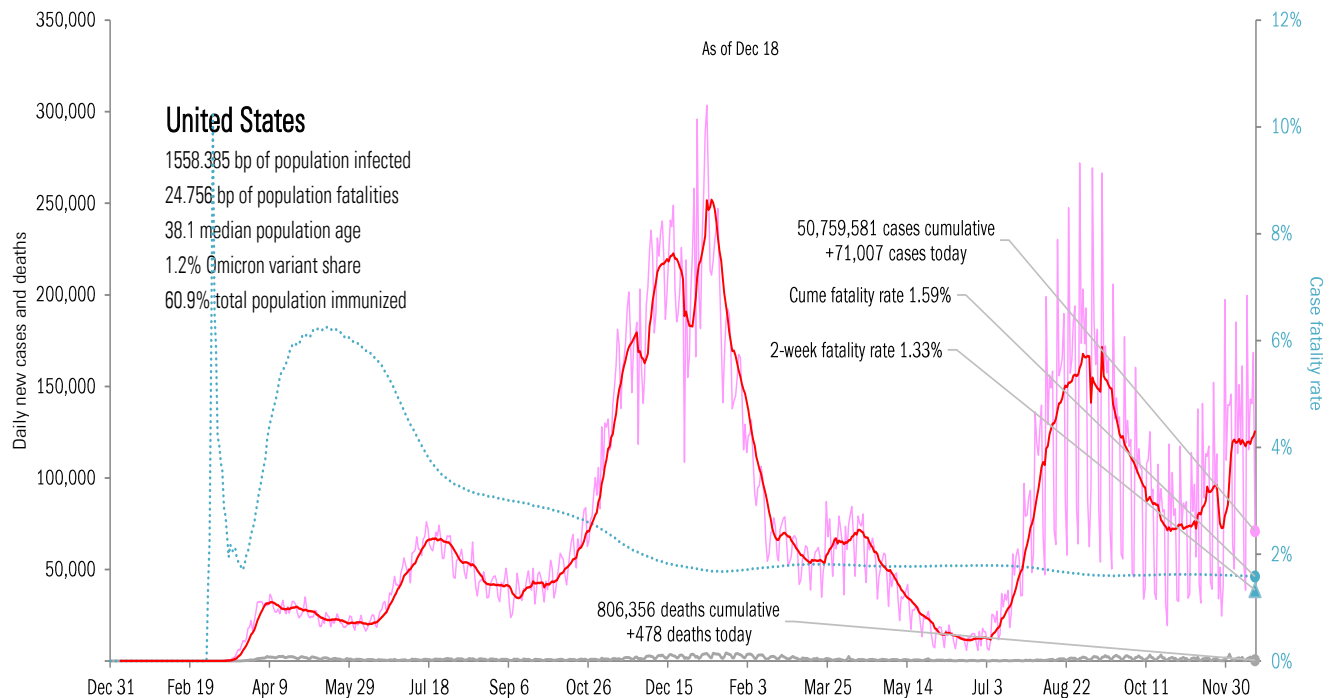
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
NY	+14,087		PA	+195		GA	+122		CA	5,203,454		CA	75,718		TX	391,675		RI	89%	NM	91%
CH	+10,134		TX	+64		NY	+74		TX	4,425,431		TX	75,056		CA	327,413		MA	87%	AR	90%
PA	+8,831		NY	+48		CH	+61		FL	3,768,844		FL	62,303		FL	327,101		PA	86%	KY	90%
NJ	+7,644		CA	+39		FL	+49		NY	2,934,453		NY	58,540		NY	181,196		AZ	86%	DE	89%
TX	+6,757		NJ	+33		AR	+38		IL	1,944,056		PA	35,378		GA	165,783		MD	85%	NE	89%
FL	+4,120		FL	+28		MD	+37		PA	1,883,028		GA	30,994		CH	146,256		MI	85%	RI	88%
CA	+3,692		AR	+12		NJ	+35		CH	1,839,501		IL	29,550		PA	136,307		MO	84%	AL	88%
IA	+3,622		ME	+11		VA	+26		GA	1,691,674		NJ	28,708		IL	118,386		GA	84%	TX	87%
MO	+3,402		MO	+11		IA	+21		MI	1,614,141		CH	28,028		KY	117,799		CT	84%	MO	87%
FR	+1,755		AL	+10		CA	+20		NC	1,589,054		MI	27,739		MI	112,379		WV	84%	OK	87%
+64,044			+451			+483			26,893,636			452,014			2,024,295						
All states	+71,007		+478			+270			All states	50,759,581		806,356			3,654,649			All states	70%	67%	
Top ten	90%		94%			179%			Top ten	53%		56%			55%			Median	78%	82%	

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-14,462	CH	-434	IL	-116	MP	+40 bp
IL	-10,765	MI	-280	MI	-103	FR	+20 bp
MA	-7,070	AZ	-143	KY	-63	VT	+20 bp
NY	-6,810	GA	-83	PA	-56	AK	+10 bp
FL	-6,561	OK	-67	OK	-47	AL	+10 bp

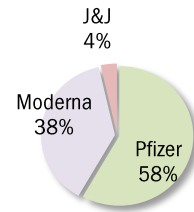


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	506,697,734	+1.771 million	US	60.9%	72.7%
Boosters	60,195,543	+1.079 million	UK	68.9%	75.4%
	One dose	% Pop	Immune	% pop	New immune today
Total population	247,157,222	74%	208,853,136	62%	+0.251 million
Age 12 to 17	14,994,659	63%	12,594,722	53%	+0.013 million
Age 18 to 64	167,204,236	82%	142,423,976	70%	+0.124 million
Age 65 and over	58,020,251	100%	49,537,246	90%	+0.025 million

France	71.8%	77.6%
Spain	80.8%	82.6%
Germany	69.6%	72.6%
Italy	73.6%	79.3%
Australia	75.8%	78.8%
Israel	62.7%	69.4%
Canada	76.9%	82.5%
Japan	77.9%	79.4%
Africa	8.4%	12.9%
India	39.2%	59.4%
Brazil	66.1%	77.3%
China	80.5%	84.8%



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

Every American >18 immunized in **82 days** by Mar 10, 2022
 74.2% of population >18 immunized
 17.9% previously tested positive
92.0% vs 60% adult herd immunity

Global data differs due to sources, timing

AK
64.4%
55.9%

WI
67.4%
61.4%

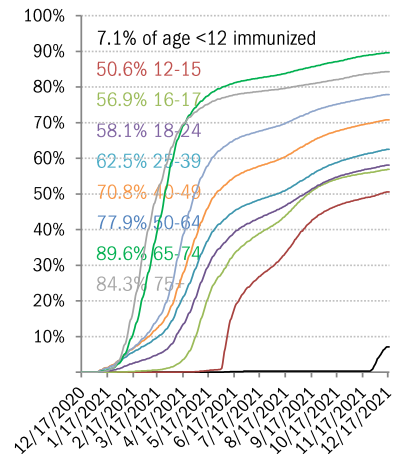
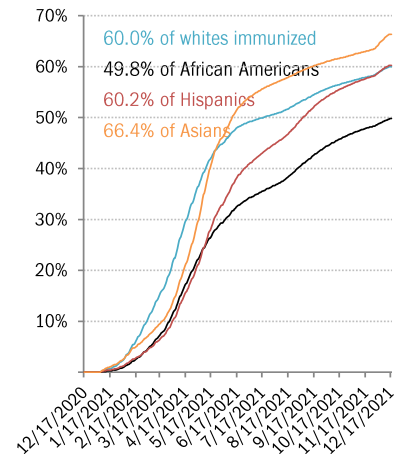
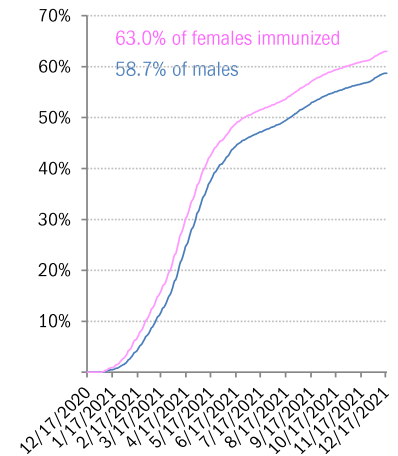
ME
84.6%
75.1%

As of Dec 18

WA 74.7% 67.3%	ID 51.7% 46.0%	MT 61.5% 53.6%	ND 61.6% 52.0%	MN 70.7% 64.8%	IL 71.2% 63.6%	MI 62.7% 56.2%	NY 82.0% 70.9%	VT 88.0% 76.3%	NH 94.4% 66.3%	
OR 73.2% 65.9%	NV 68.4% 55.9%	WY 55.2% 47.0%	SD 69.6% 56.4%	IA 64.1% 58.4%	IN 57.2% 51.7%	OH 59.8% 54.7%	PA 84.9% 60.8%	NJ 82.1% 69.8%	MA 88.9% 73.8%	
CA 81.4% 65.3%	UT 66.5% 57.9%	CO 73.5% 65.4%	NE 65.6% 59.2%	MO 61.6% 52.6%	KY 61.8% 53.7%	WV 89.7% 71.6%	VA 77.8% 67.3%	MD 79.1% 69.7%	CT 87.0% 74.0%	RI 86.8% 75.5%
	AZ 66.3% 56.4%	NM 79.4% 65.6%	KS 68.2% 56.3%	AR 62.0% 50.7%	TN 58.1% 50.9%	NC 74.2% 56.1%	SC 61.9% 52.6%	DC 86.1% 66.7%	DE 75.6% 63.5%	
			OK 64.9% 52.9%	LA 56.7% 49.8%	MS 55.2% 48.0%	AL 57.9% 47.2%	GA 60.4% 50.4%			
			TX 65.8% 56.3%					FL 73.5% 62.8%	PR 87.7% 76.4%	

HI
83.8%
62.6%

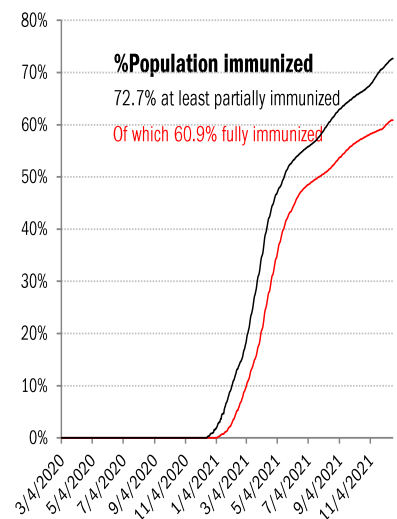
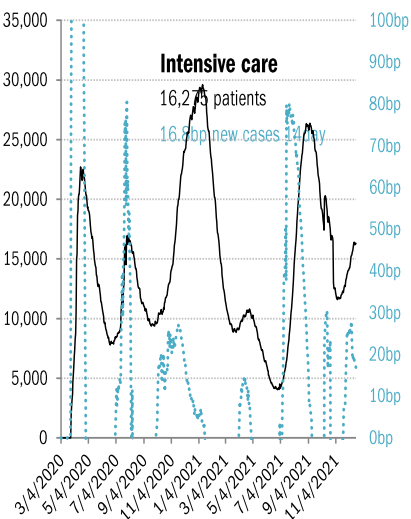
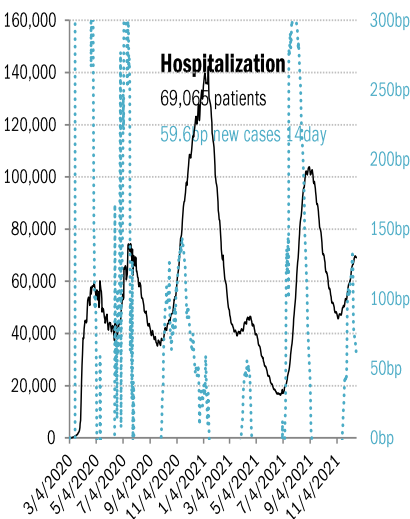
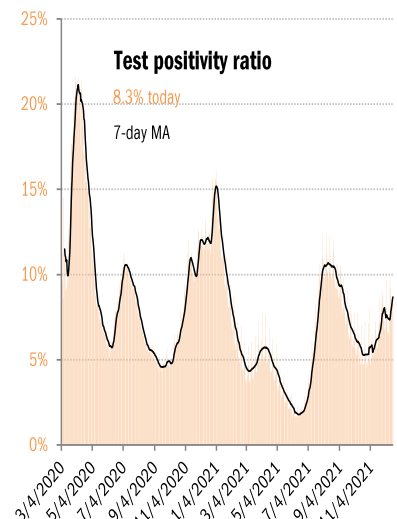
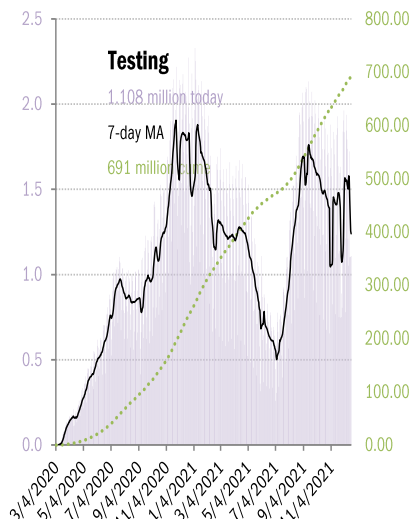
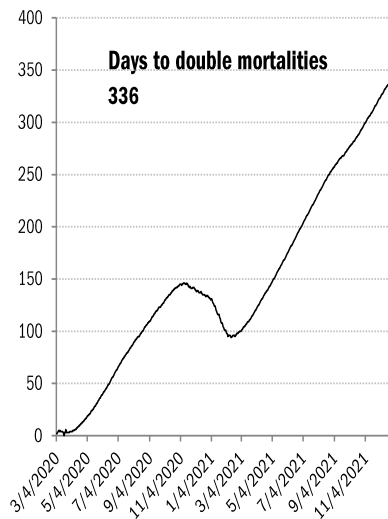
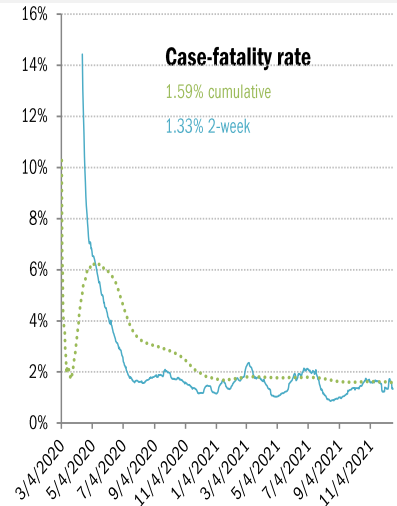
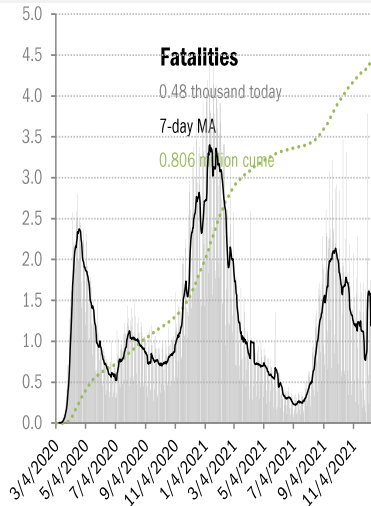
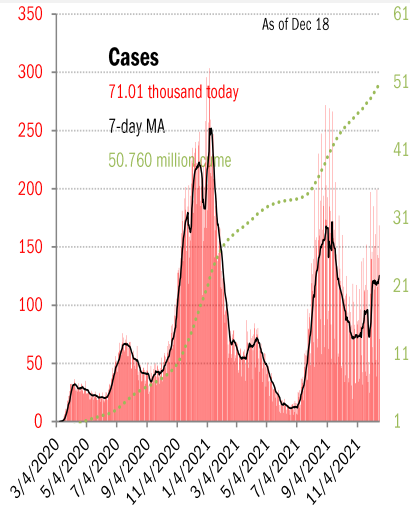
The demographics of US vaccination



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

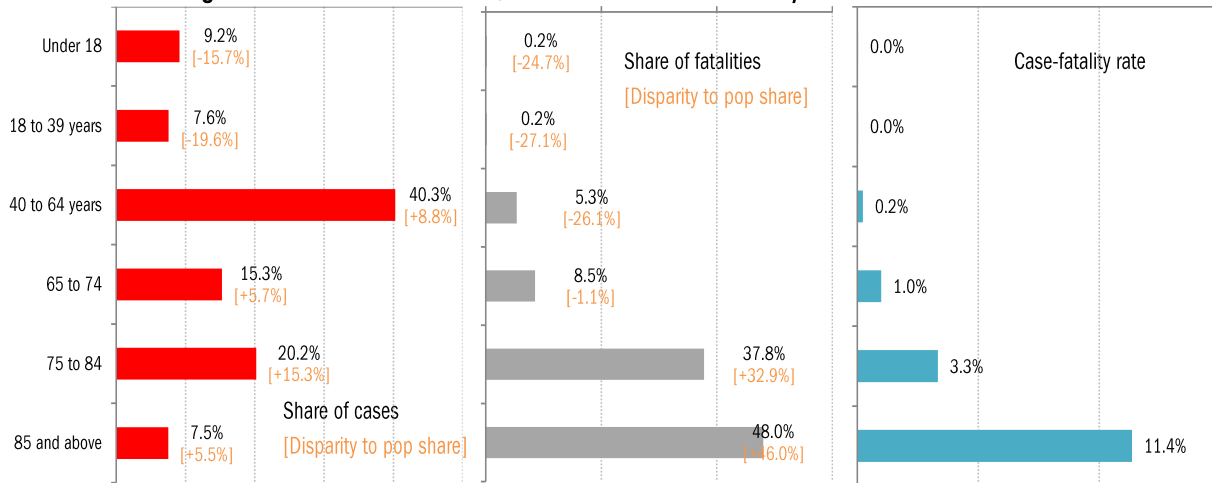
US deep-dive

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

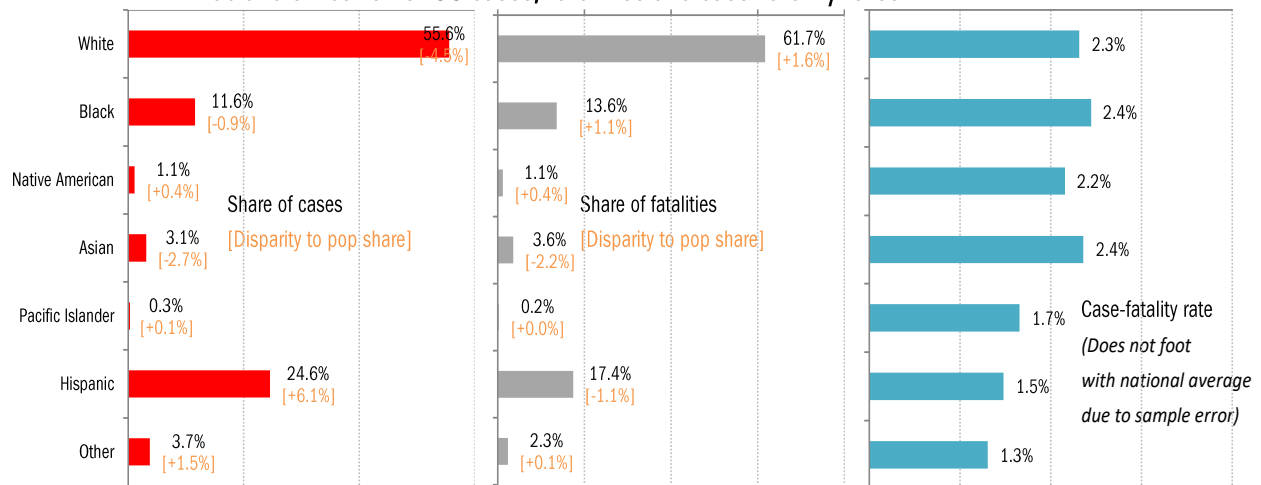


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

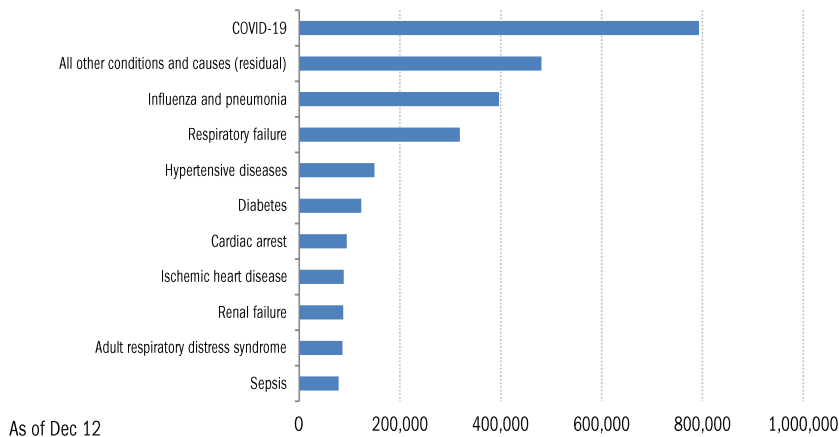


Racial distribution of US cases, fatalities and case-fatality rates



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

[UK health minister doesn't rule out new COVID restrictions before Christmas](#)

Kylie Maclellan
Reuters
December 19, 2021

[The NFL Weighs Less Covid Testing—Not More—to Thwart Disruptions](#)

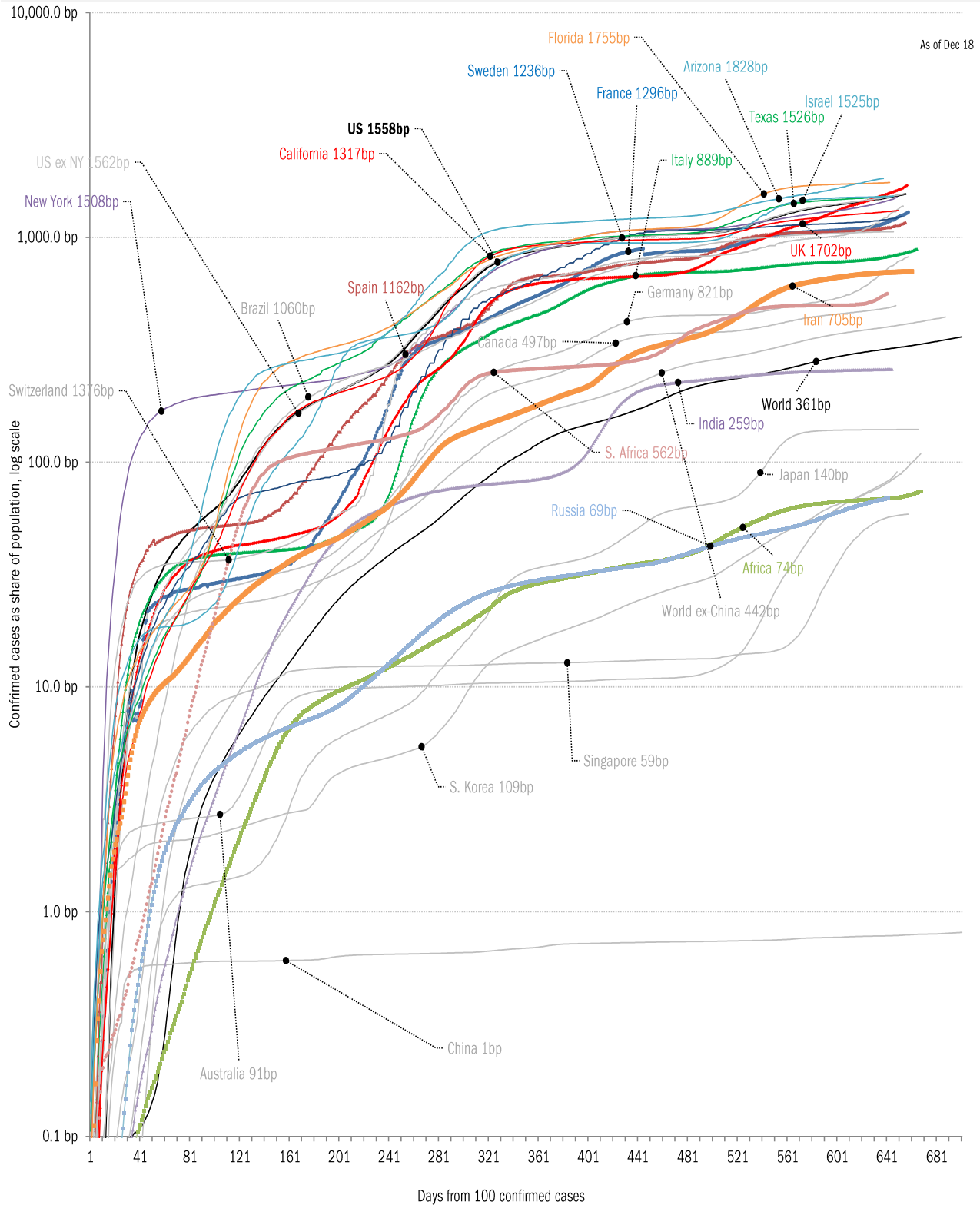
Andrew Beaton and Louise Radnofsky
Wall Street Journal
December 18, 2021

Meme of the day



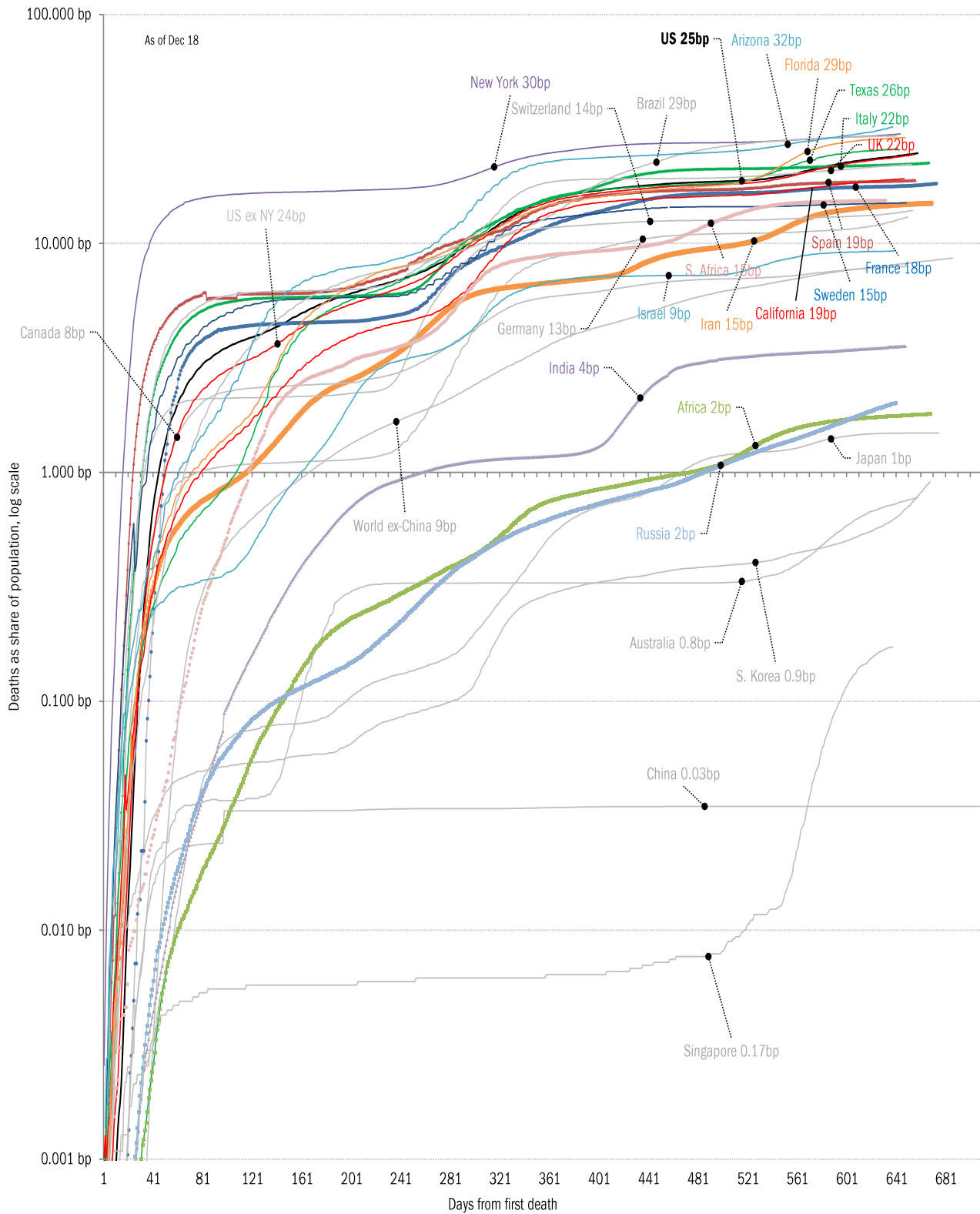
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

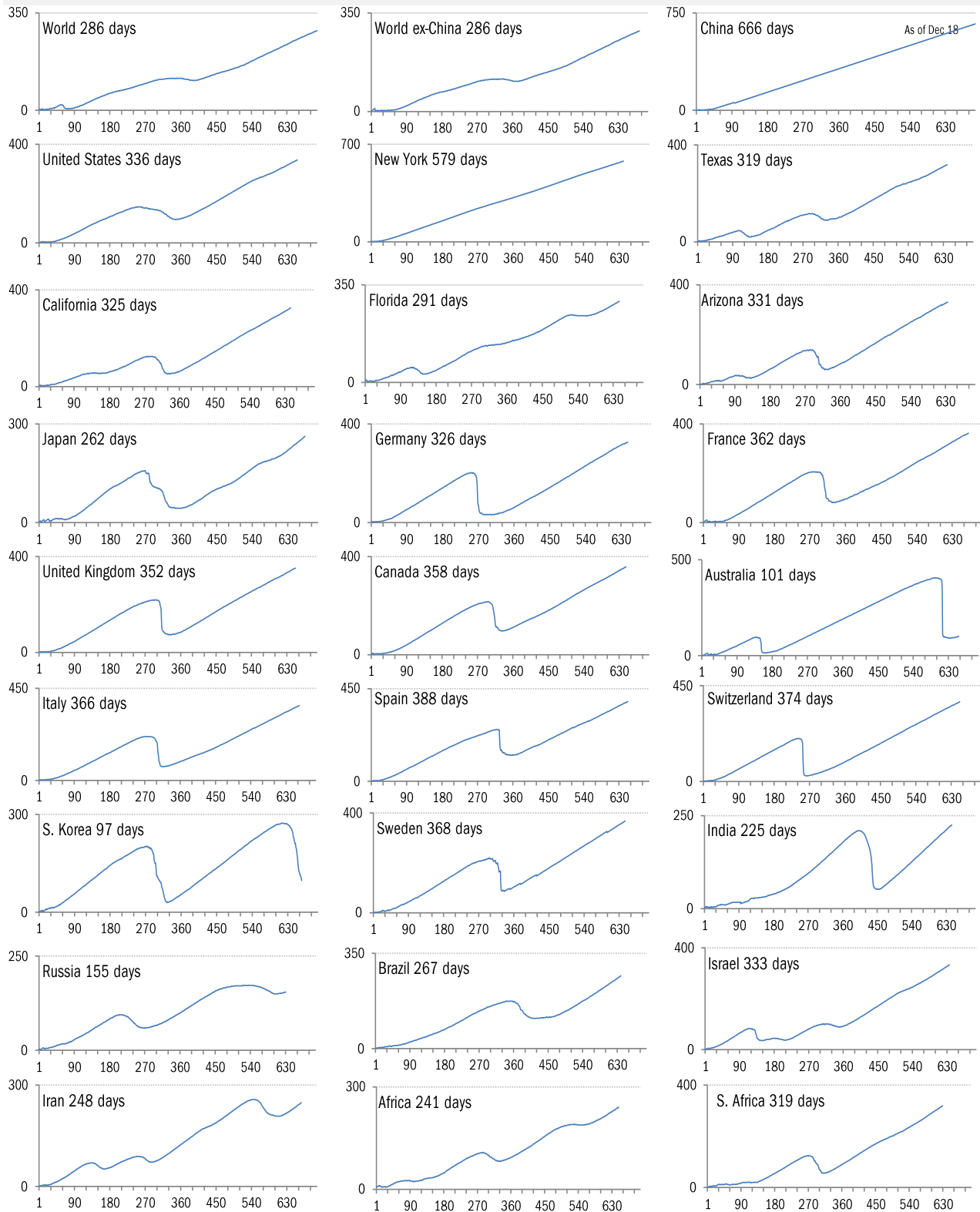


Source: [Johns Hopkins](#), TrendMacro calculations

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

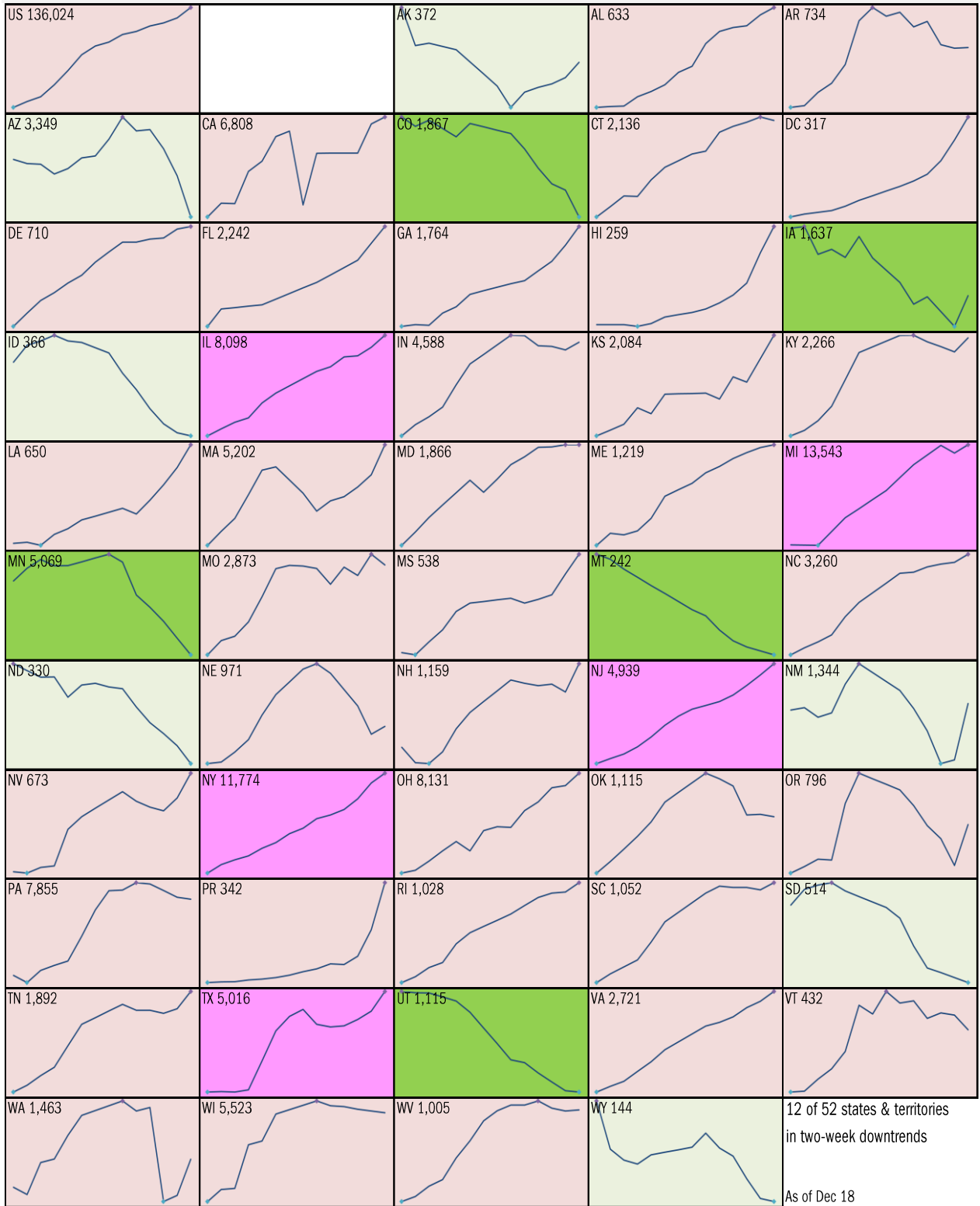
Vertical: days to double deaths Horizontal: days from first death

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

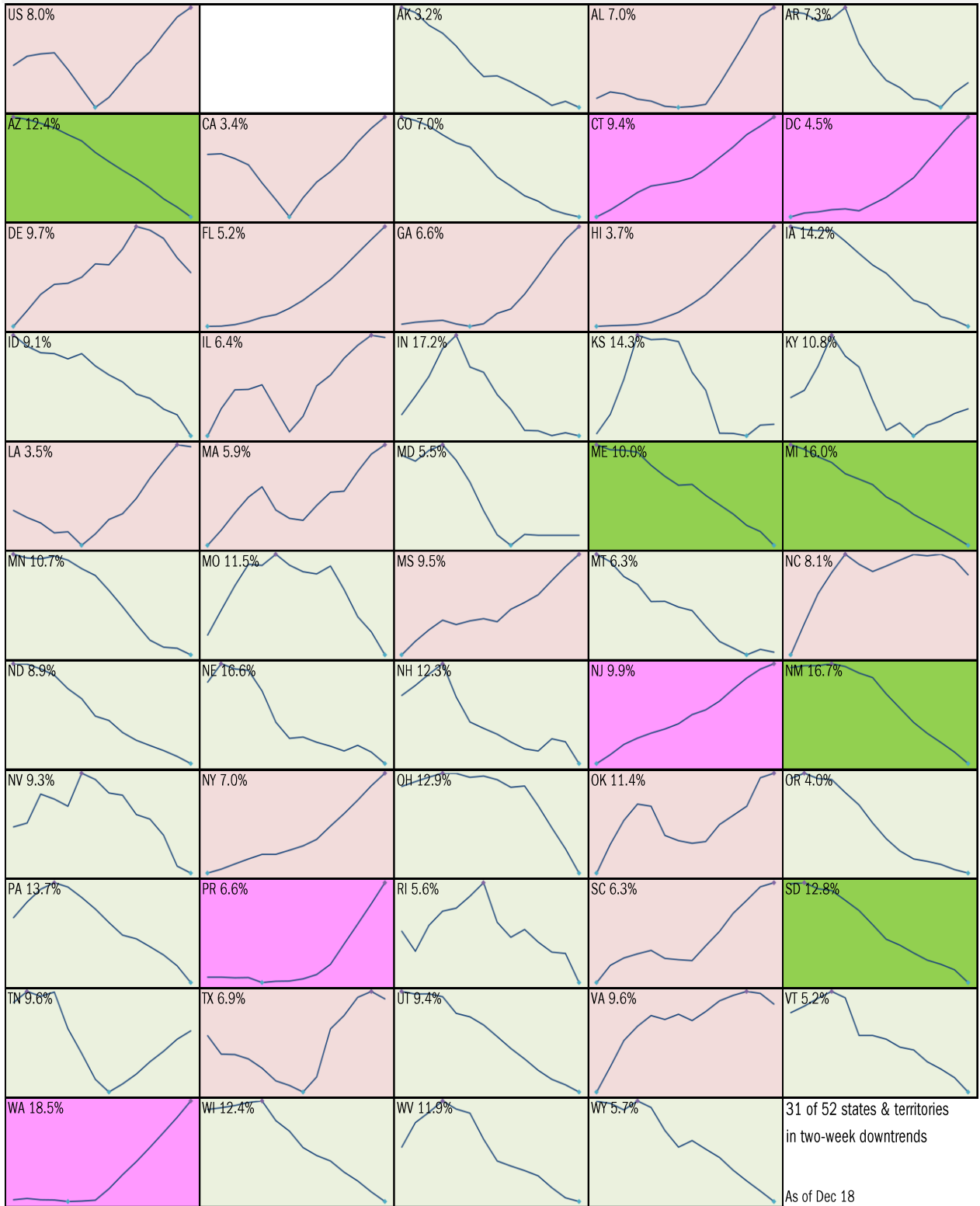


Source: [Johns Hopkins](#), TrendMacro calculations

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

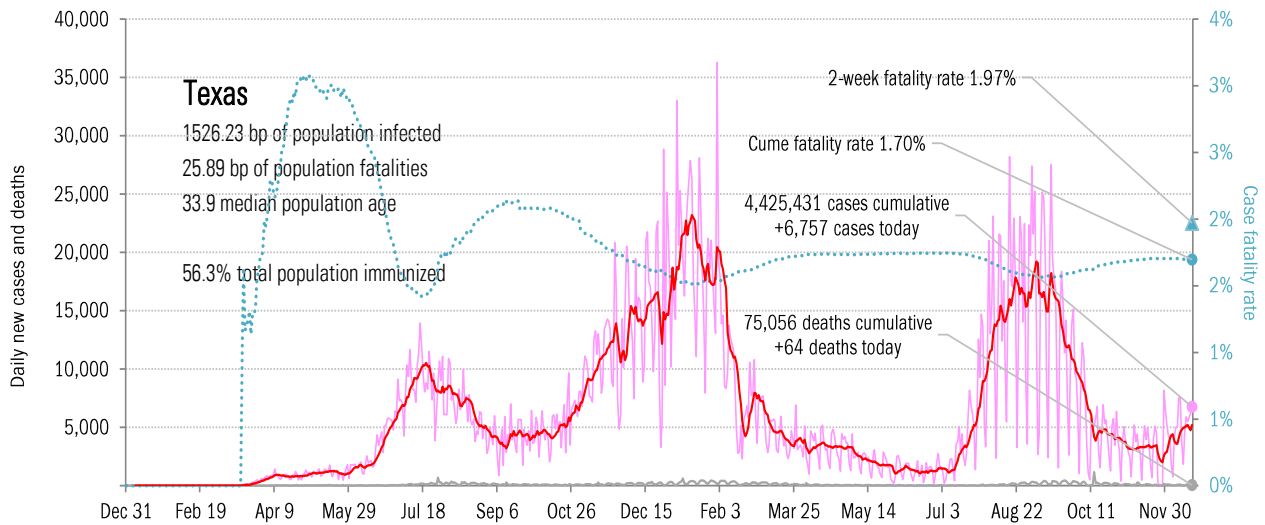
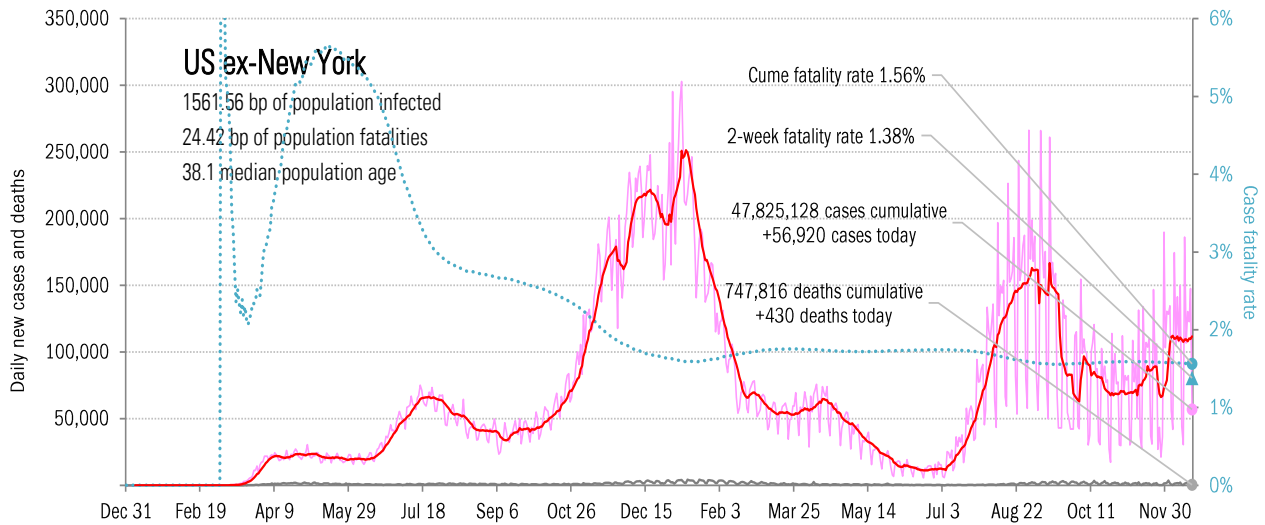
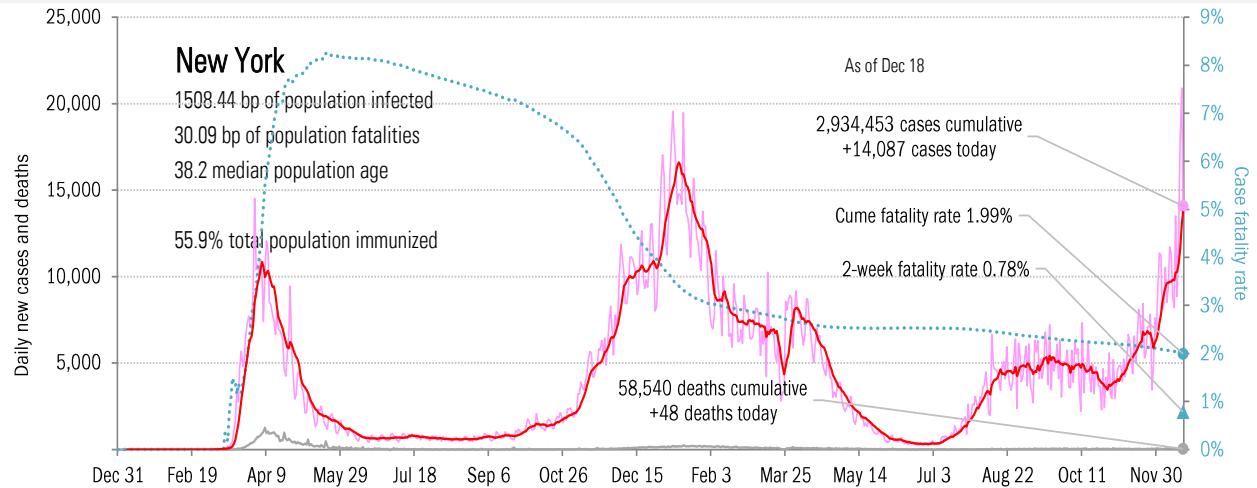
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

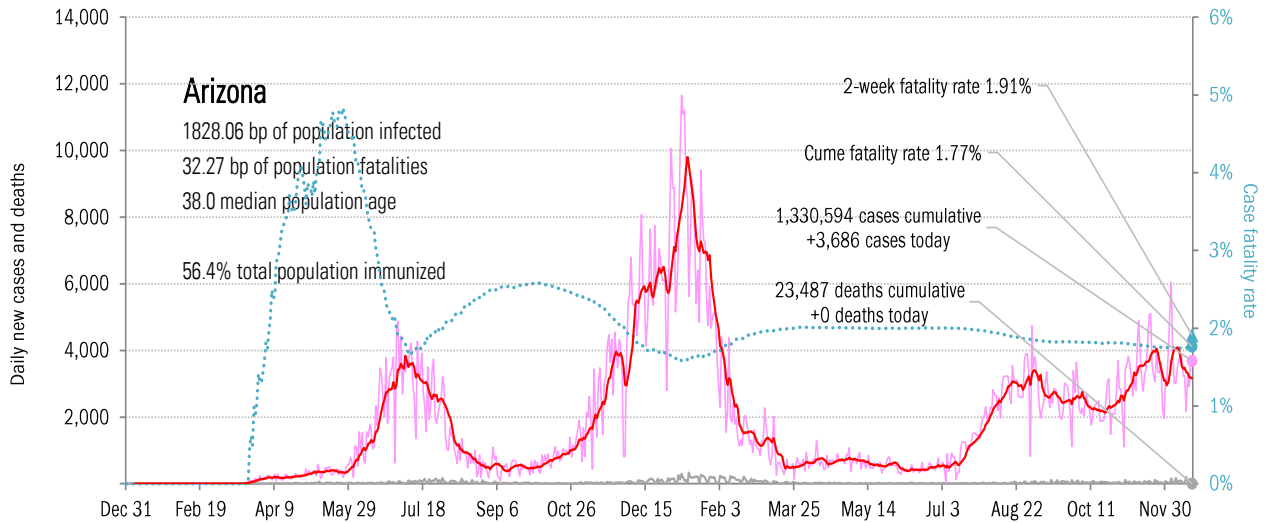
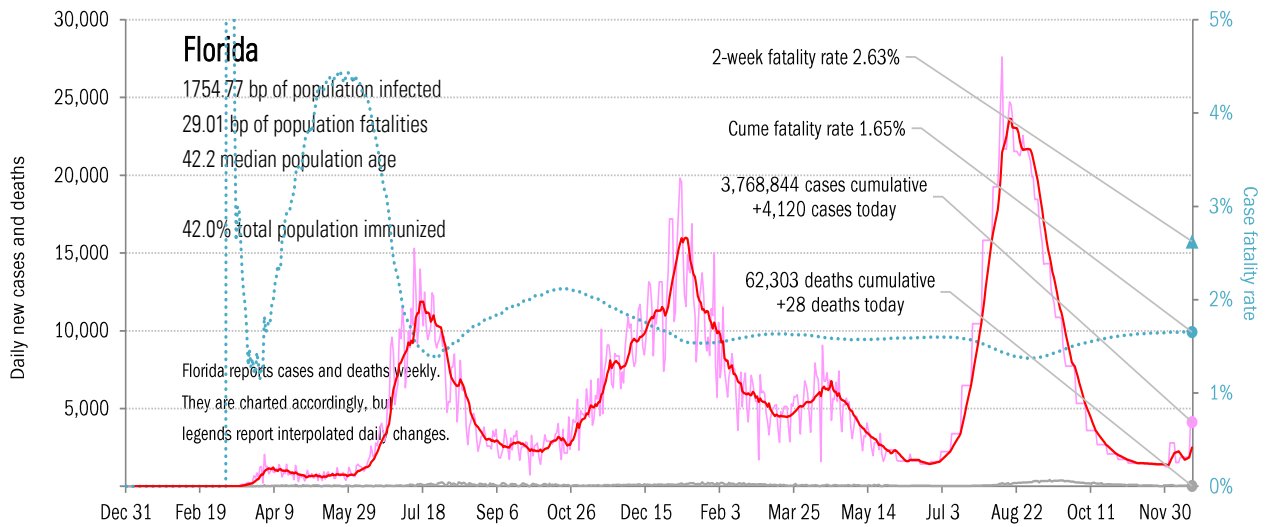
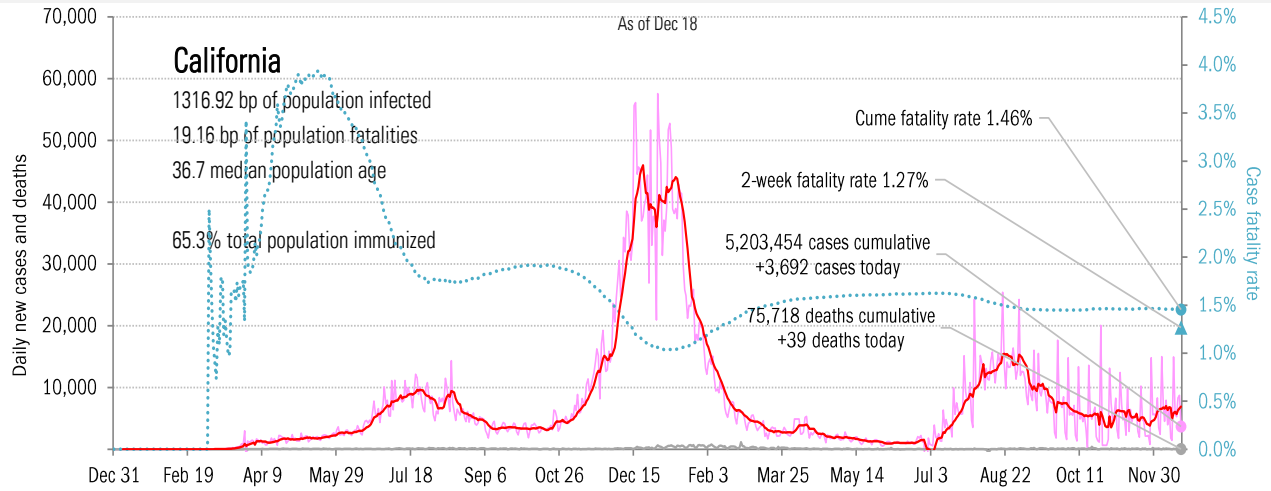
Cases: 7-day average and daily Deaths: Daily



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

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

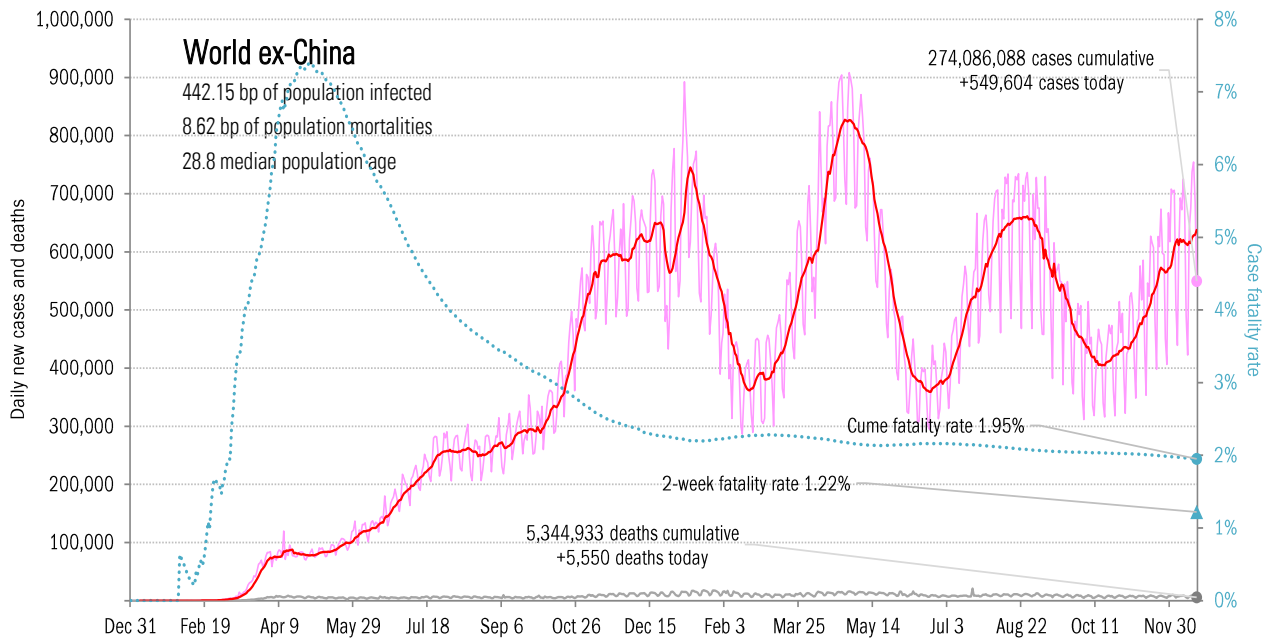
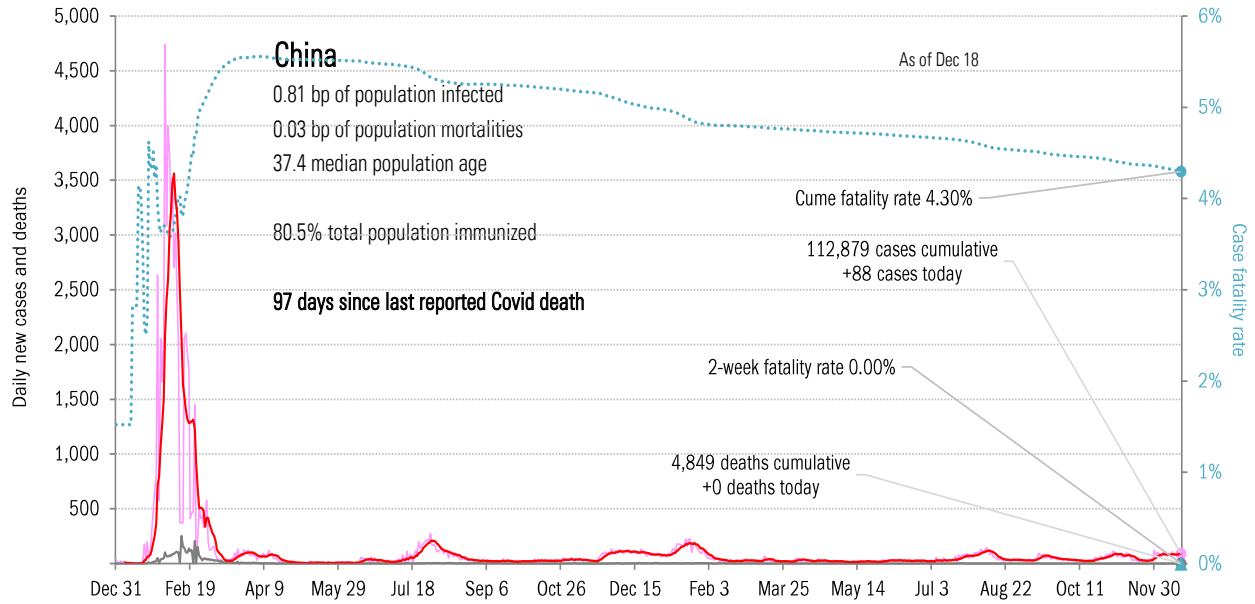
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

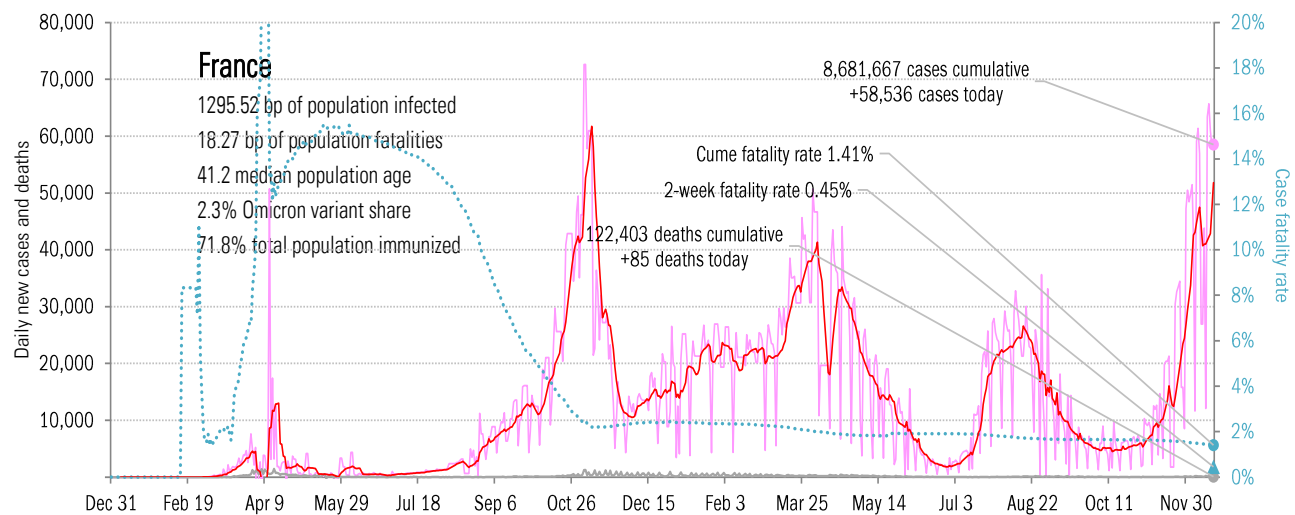
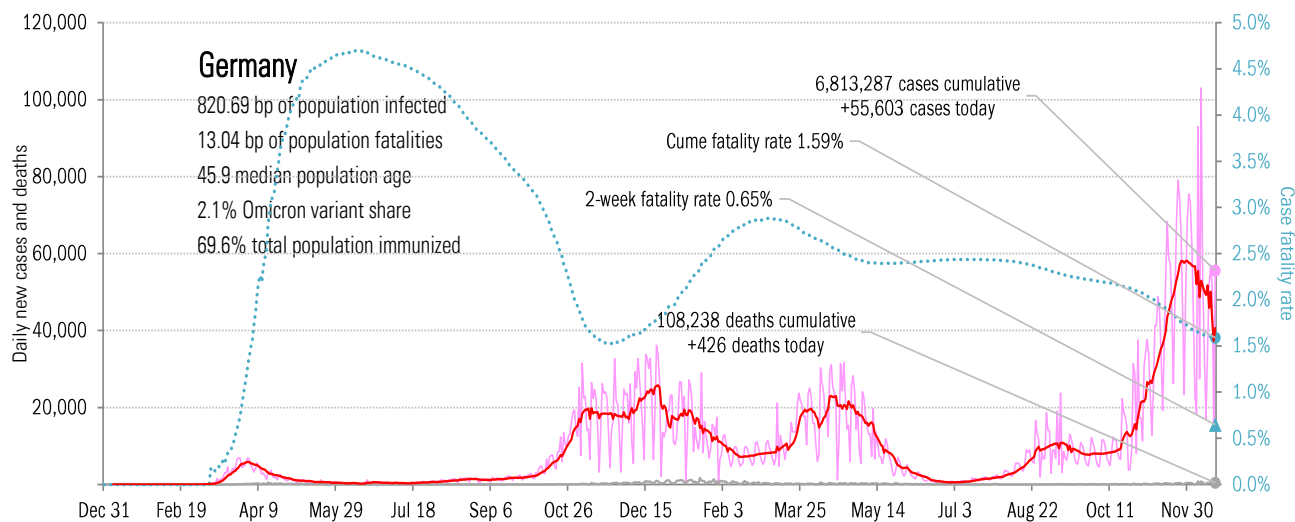
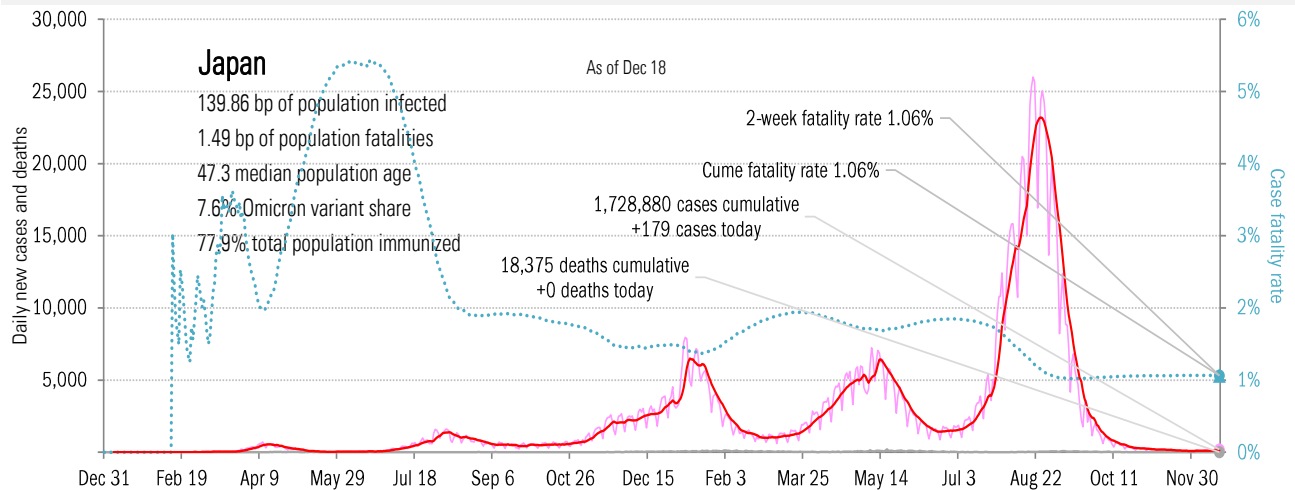
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

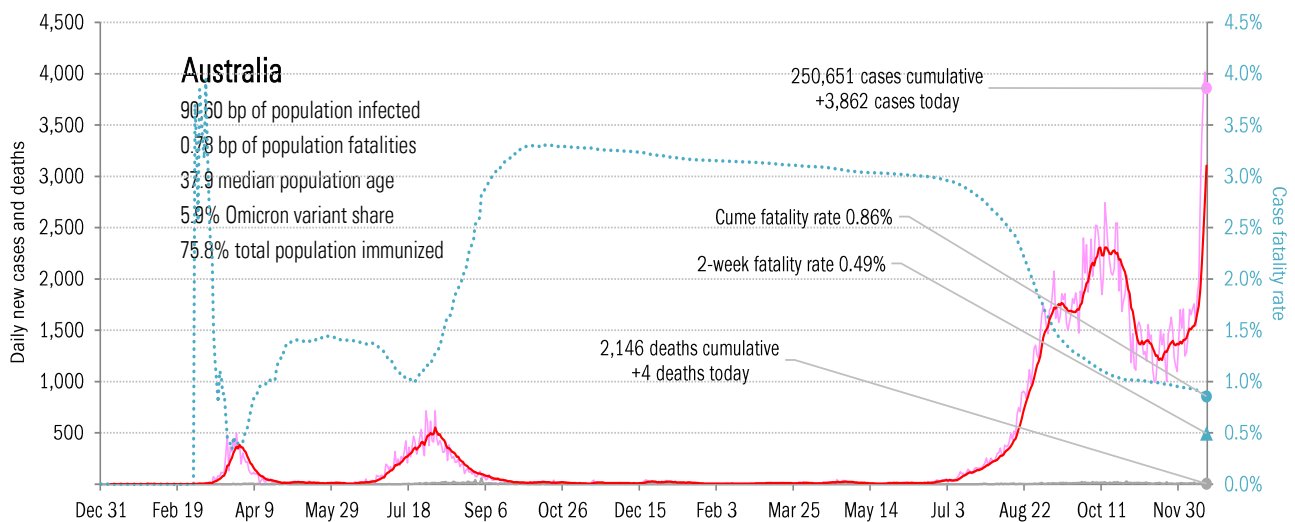
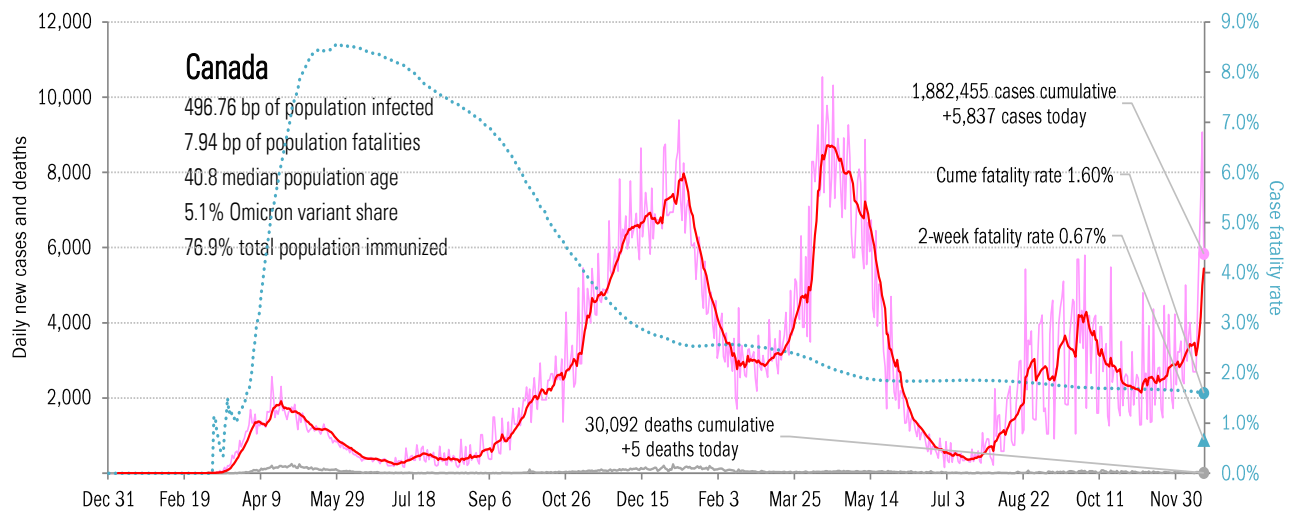
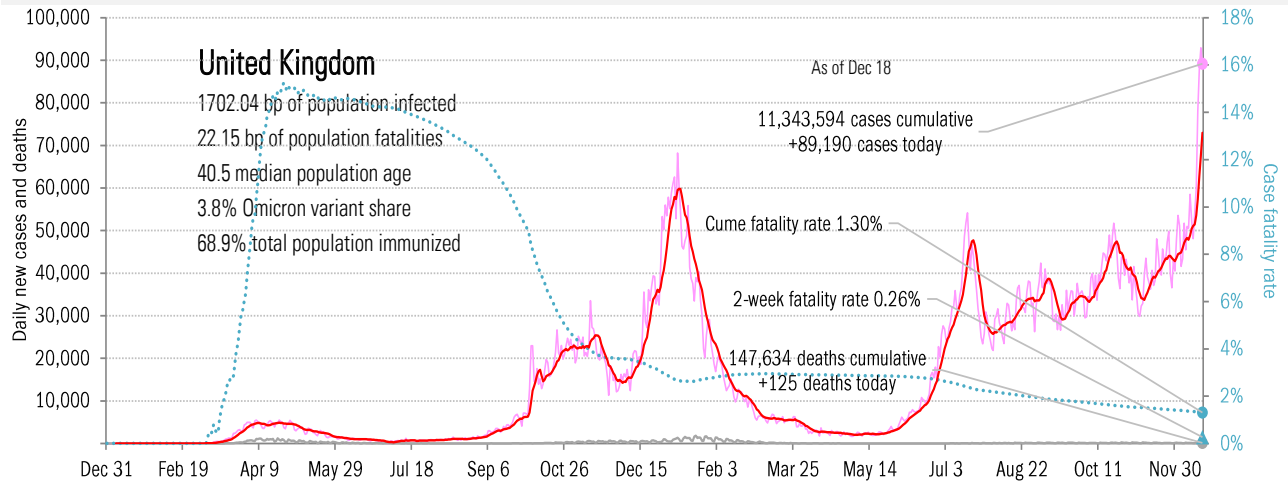
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

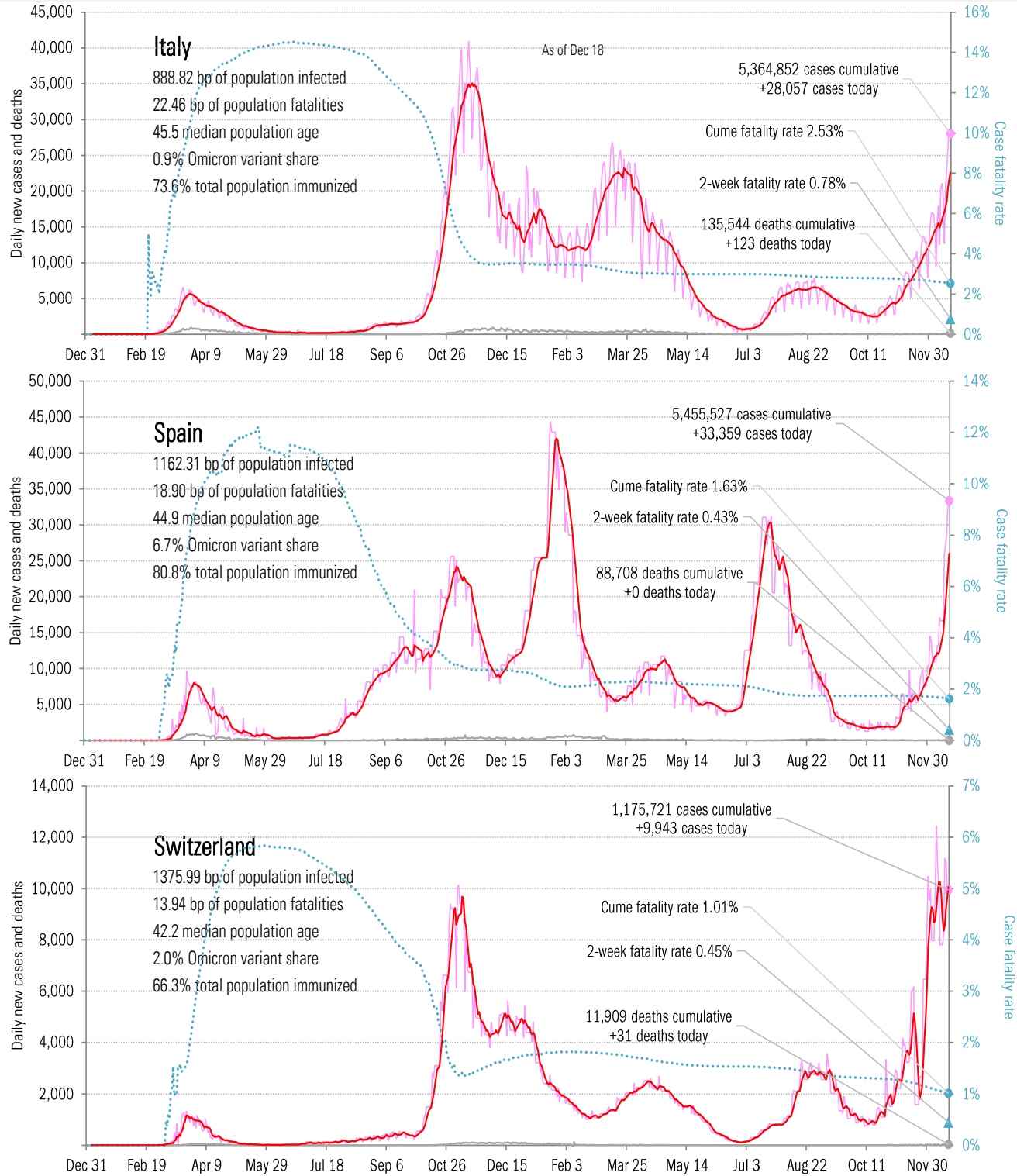
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

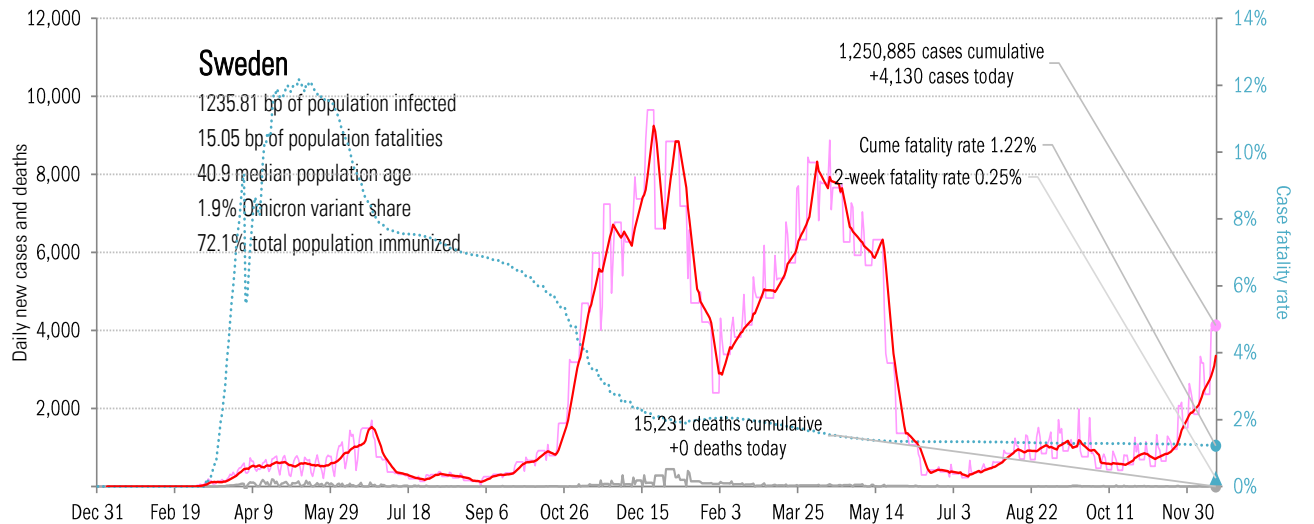
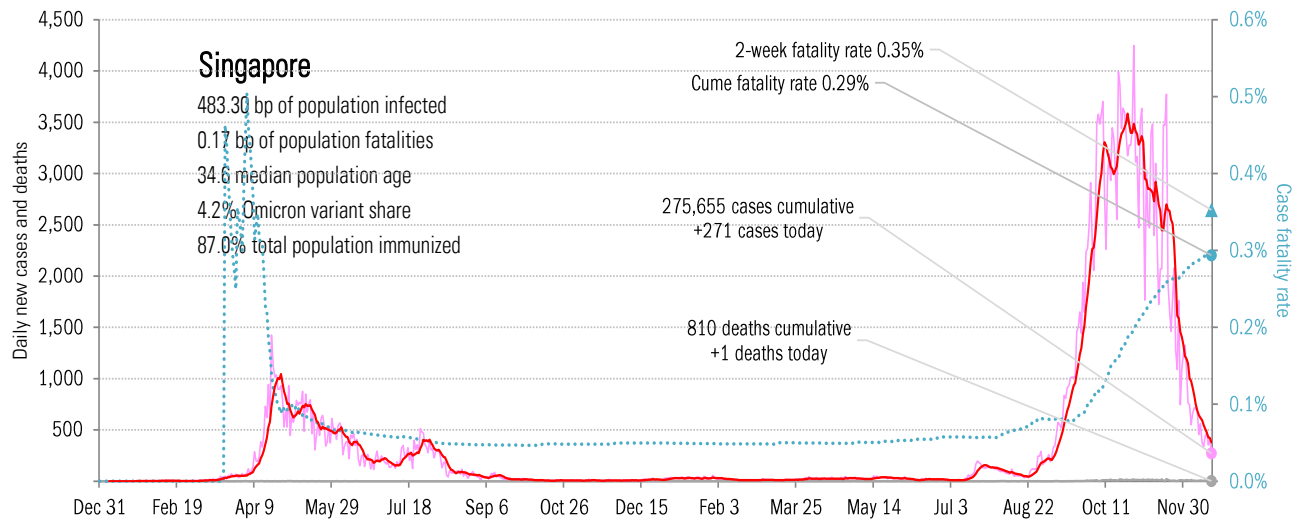
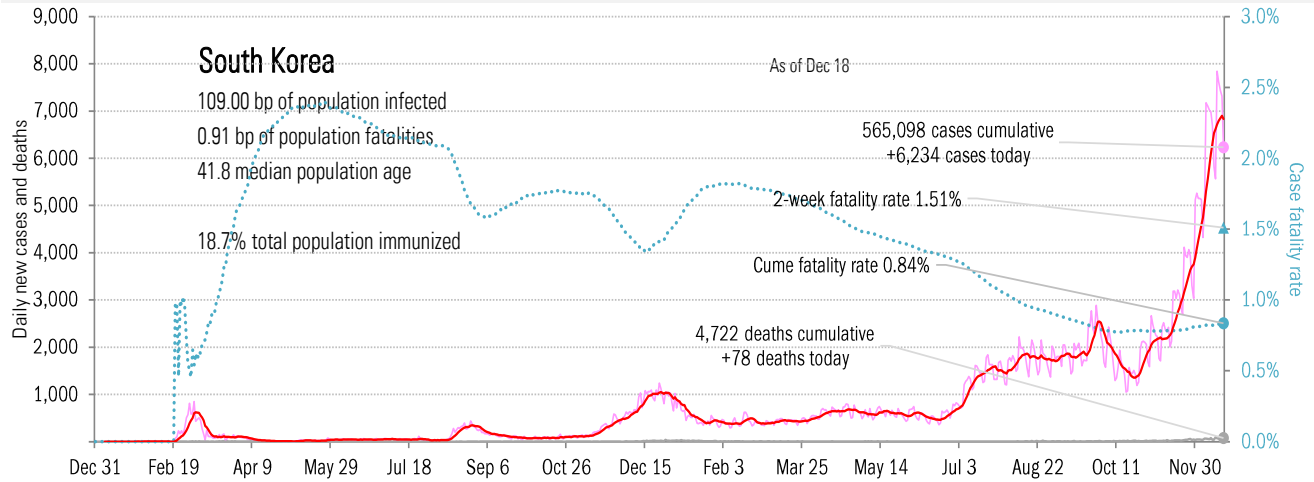
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

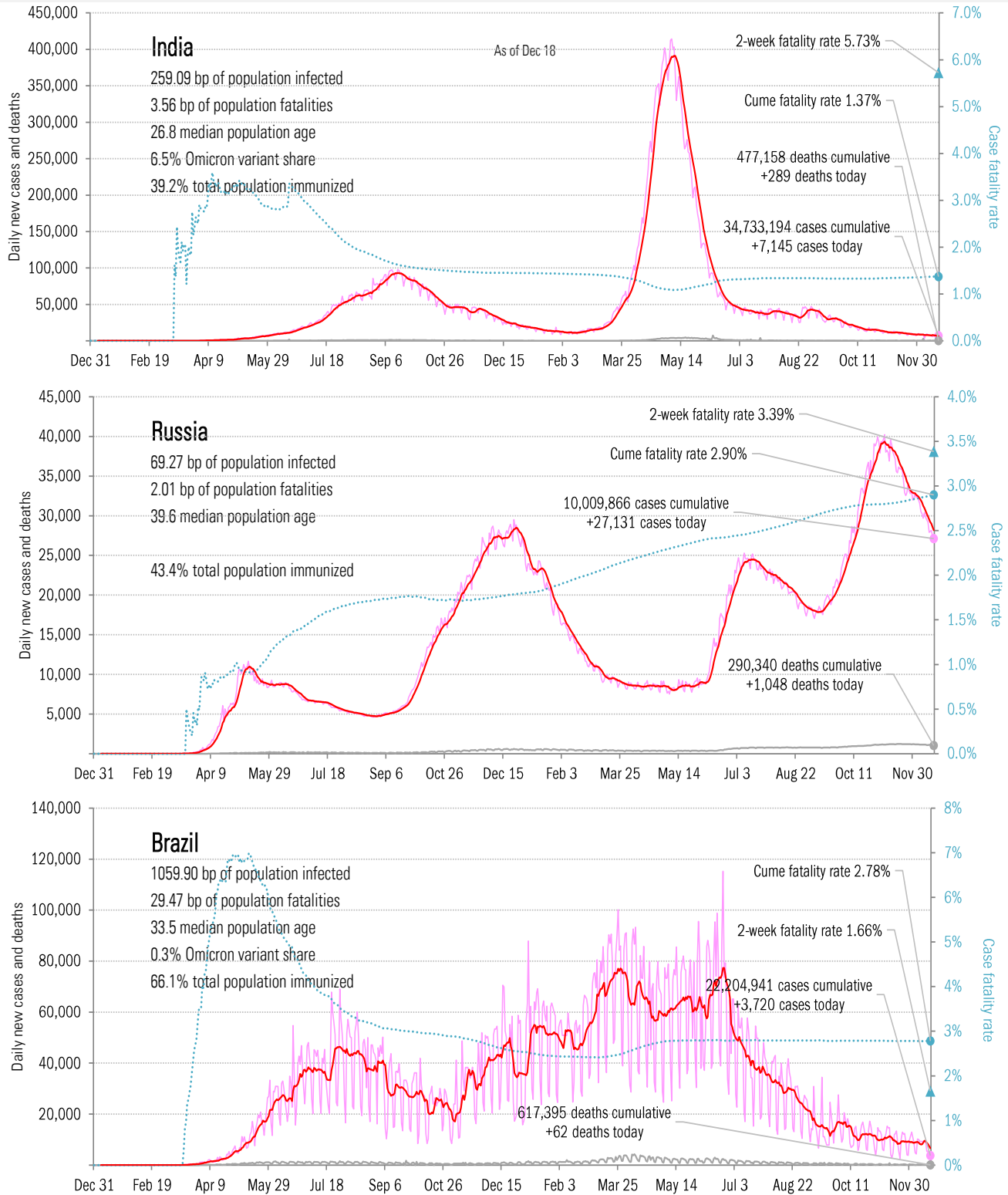
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

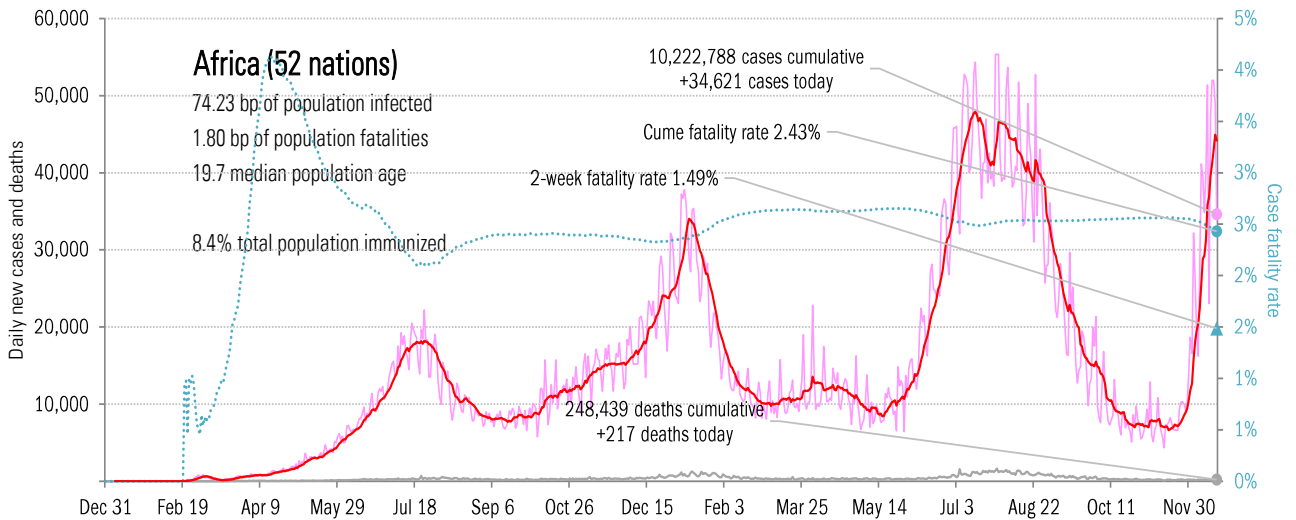
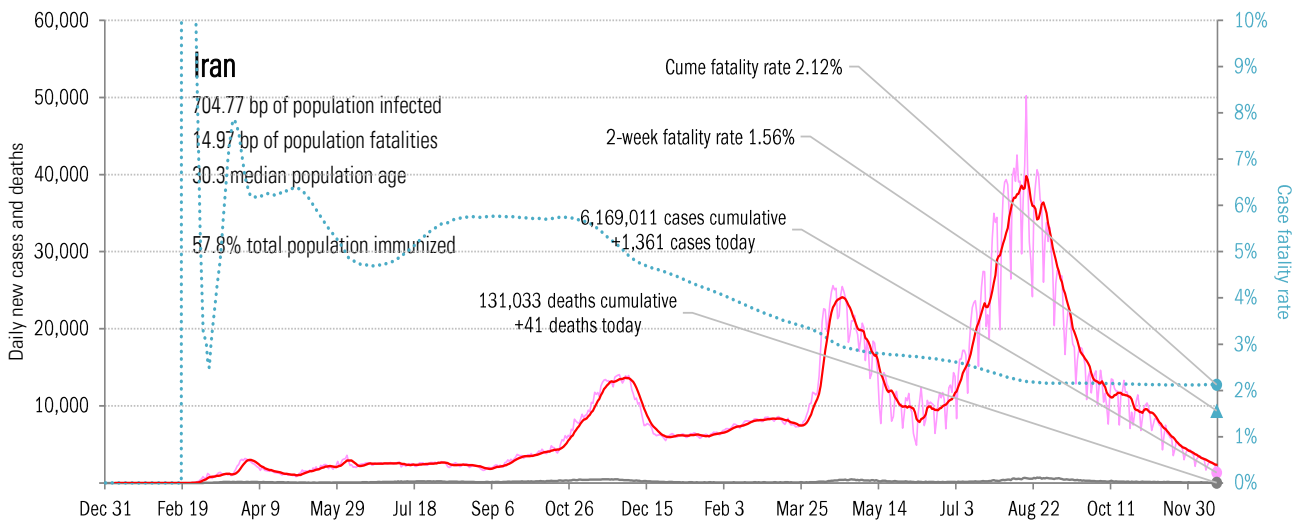
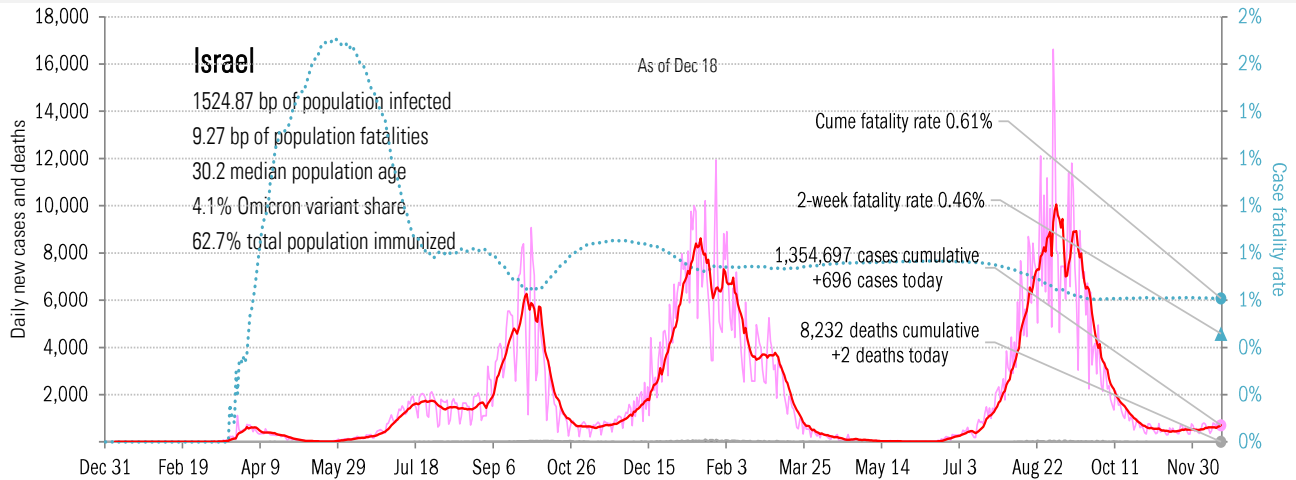
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

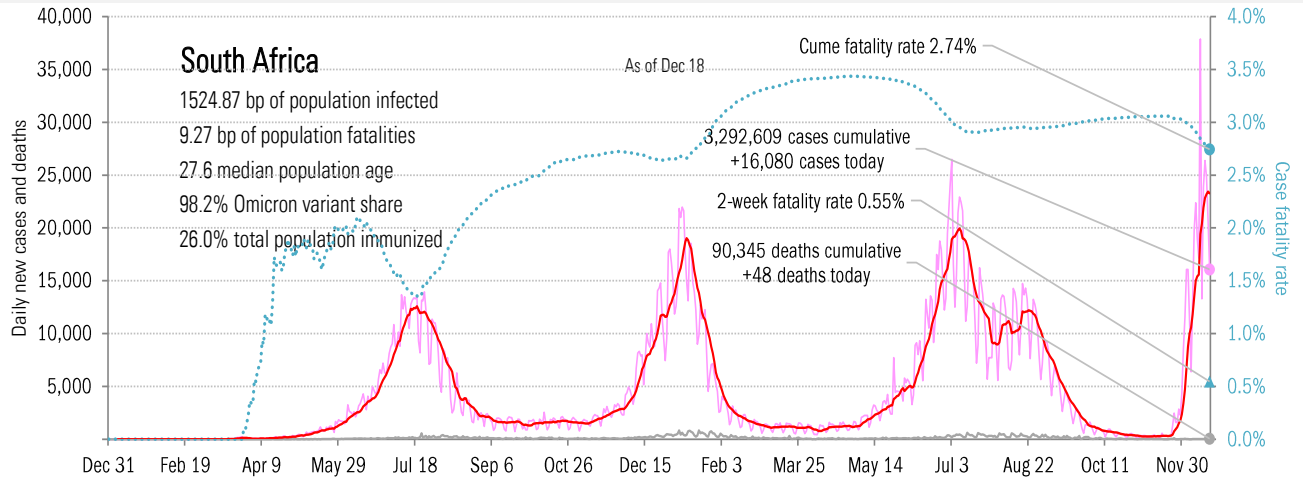
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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