

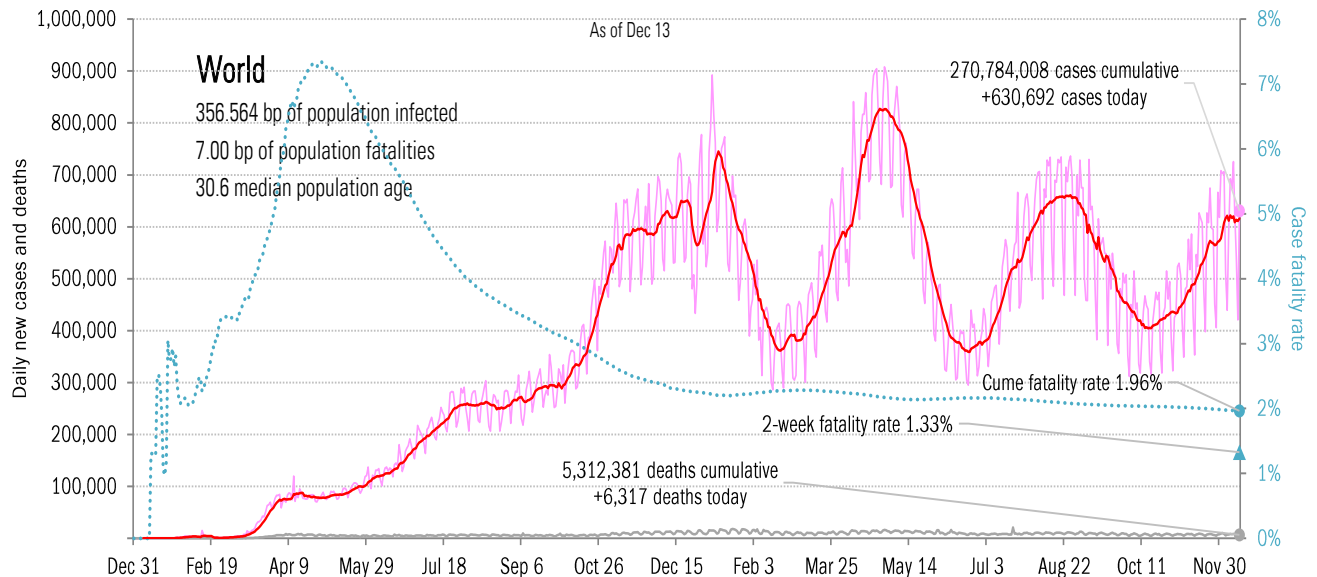
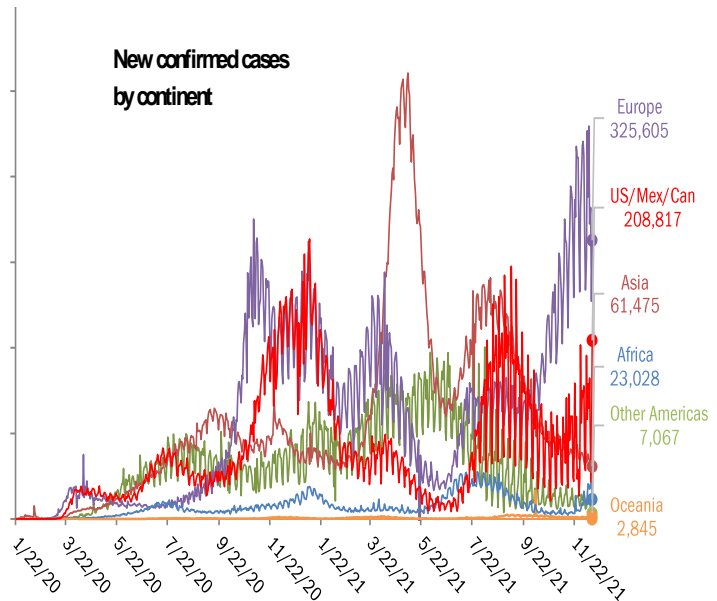
Data Insights: Covid-2019 Monitor

Tuesday, December 14, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+199,872	United States	+1,358
United Kingdom	+54,055	Russia	+1,094
Spain	+49,802	Germany	+473
Germany	+35,423	Hungary	+455
Belgium	+29,421	India	+252
Russia	+29,208	Vietnam	+242
Switzerland	+23,440	Ukraine	+215
Turkey	+18,796	Turkey	+171
Hungary	+16,017	Belgium	+127
Vietnam	+15,377	Chile	+116
+471,411		+4,503	
World	+630,692	World	+6,317
Top ten	75%	Top ten	71%



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

For more information contact us:

Donald Luskin: 214 550 2121 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

Cases: 7-day average and daily Deaths: Daily

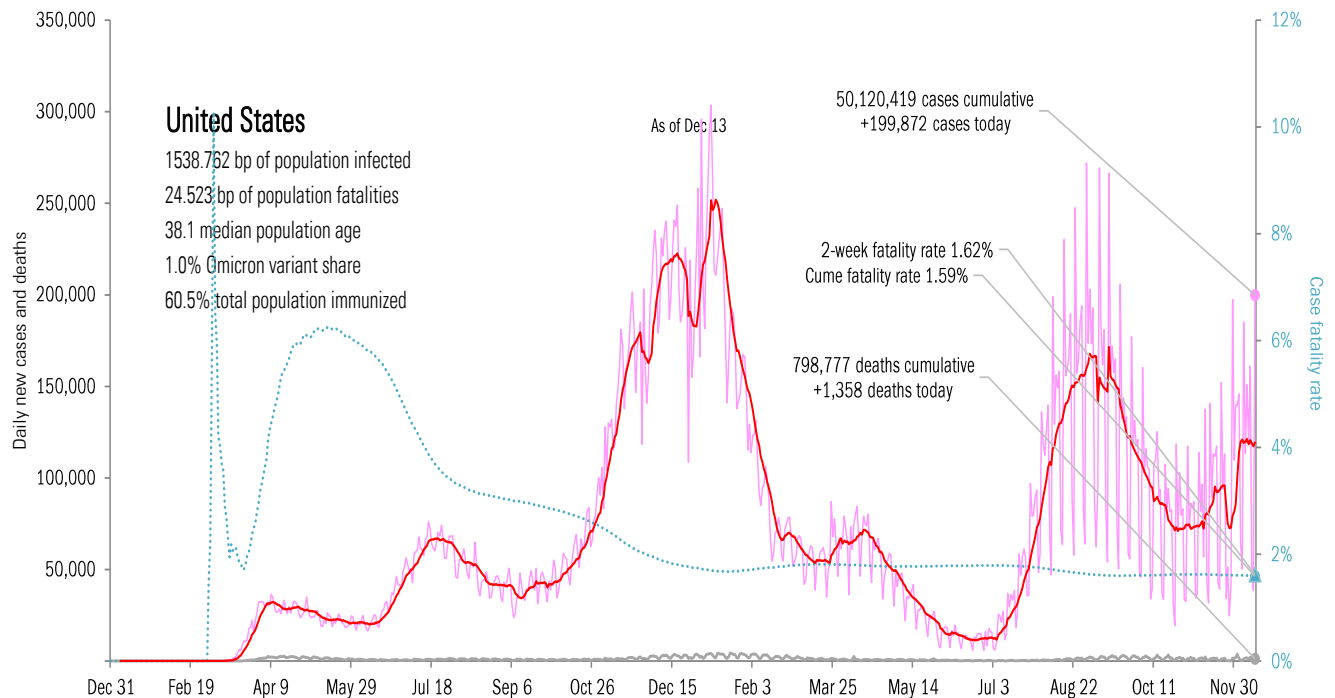
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
IL	+19,515		MI	+166		GA	+94		CA	5,171,651		CA	75,378		TX	389,648		RI	88%	RI	92%
MI	+17,719		KY	+120		CH	+76		TX	4,395,205		TX	74,632		FL	325,940		MD	86%	TX	90%
CA	+14,959		IL	+105		NJ	+61		FL	3,755,039		FL	62,140		CA	325,472		MI	86%	NM	89%
NY	+13,503		CA	+103		NC	+52		NY	2,860,036		NY	58,222		NY	178,629		MA	85%	MI	88%
MA	+11,672		IN	+70		MA	+40		IL	1,904,259		PA	34,618		GA	164,921		AZ	84%	MO	86%
IN	+11,385		VA	+62		CA	+32		PA	1,843,137		GA	30,860		CH	143,019		PA	84%	PA	86%
WI	+9,535		NY	+54		MD	+32		CH	1,787,029		IL	29,339		PA	133,742		MO	83%	NE	85%
NC	+8,953		OK	+48		PA	+32		GA	1,681,906		NJ	28,589		KY	116,987		WA	83%	KY	85%
CT	+7,893		MN	+46		VA	+29		MI	1,585,297		CH	27,371		IL	116,041		CT	83%	OK	84%
VA	+6,625		KS	+45		IL	+26		NC	1,575,222		MI	27,080		MI	110,185		MN	82%	NC	84%
+121,759			+819			+474			26,558,781			448,229			2,004,584						
All states	+199,872		+1,358			+489			All states	50,120,419		798,777			3,615,004			All states	70%	67%	
Top ten	61%		60%			97%			Top ten	53%		56%			55%			Median	76%	80%	

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
AZ	-3,231	PA	-43	IL	-94	VT	+30 bp
PA	-2,996	FL	-33	TX	-84	MI	+20 bp
NJ	-563	AZ	-15	MO	-56	IL	+20 bp
VT	-297	HI	-5	AZ	-51	CA	+20 bp
MO	-206	TX	-4	WI	-45	CO	+20 bp

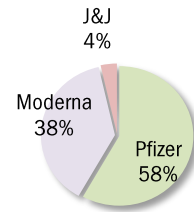


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	498,299,025	+1.176 million	US	60.5%	72.1%
Boosters	55,327,681	+0.640 million	UK	68.6%	75.2%
	One dose	% Pop	Immune	% pop	New immune today
Total population	245,198,472	73%	207,359,797	62%	+0.271 million
Age 12 to 17	14,899,486	62%	12,513,058	52%	+0.015 million
Age 18 to 64	166,019,043	81%	141,818,145	70%	+0.078 million
Age 65 and over	57,779,119	100%	49,422,349	90%	+0.011 million

France	71.1%	77.4%
Spain	80.7%	82.4%
Germany	69.1%	72.1%
Italy	73.4%	78.9%
Australia	75.0%	78.5%
Israel	62.4%	69.1%
Canada	76.8%	82.0%
Japan	77.8%	79.4%
Africa	8.1%	12.5%
India	37.1%	58.7%
Brazil	65.3%	77.1%
China	80.5%	84.8%



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

Every American >18 immunized in **81 days** by Mar 3, 2022
 73.9% of population >18 immunized
 17.6% previously tested positive
91.5% vs 60% adult herd immunity

Global data differs due to sources, timing

AK
64.1%
55.6%

WI
67.0%
61.0%

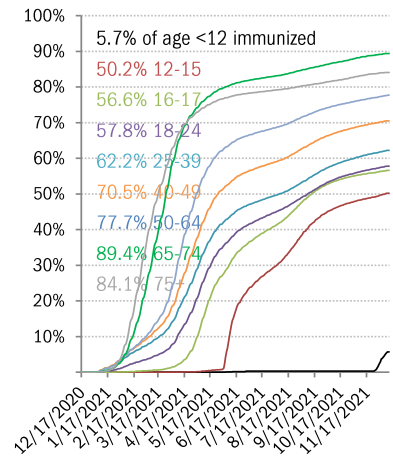
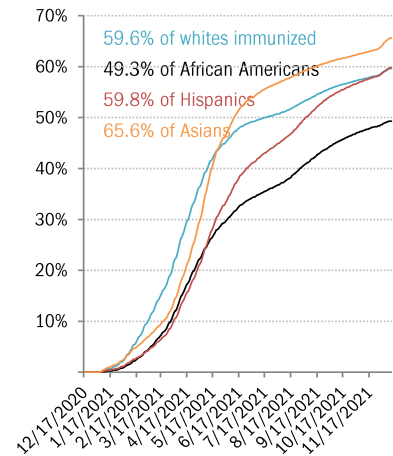
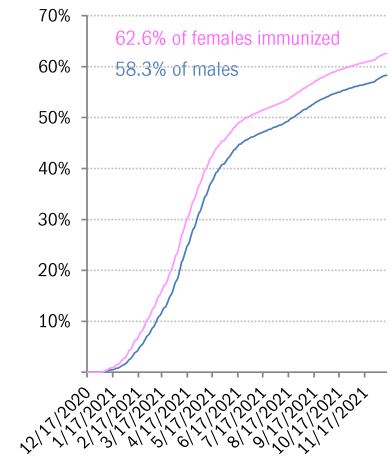
ME
83.7%
74.1%

As of Dec 13

WA 74.1% 66.5%	ID 51.5% 45.8%	MT 60.9% 52.9%	ND 61.0% 51.5%	MN 70.3% 64.3%	IL 70.9% 63.3%	MI 62.3% 55.9%	NY 81.1% 70.5%	VT 87.3% 75.4%	NH 92.0% 65.7%	
OR 72.8% 65.5%	NV 67.9% 55.6%	WY 54.7% 46.4%	SD 68.9% 55.9%	IA 63.6% 57.9%	IN 56.8% 51.4%	OH 59.5% 54.4%	PA 84.0% 60.2%	NJ 81.2% 69.3%	MA 88.1% 73.3%	
CA 80.7% 64.9%	UT 65.9% 57.1%	CO 73.0% 65.0%	NE 65.2% 58.7%	MO 61.2% 52.2%	KY 61.4% 53.4%	WV 89.0% 71.0%	VA 77.2% 66.8%	MD 78.5% 69.3%	CT 86.2% 73.6%	RI 85.8% 74.9%
	AZ 65.8% 56.0%	NM 78.7% 65.1%	KS 67.7% 55.9%	AR 61.7% 50.4%	TN 57.7% 50.3%	NC 73.1% 55.5%	SC 61.5% 52.3%	DC 84.8% 66.2%	DE 74.8% 62.8%	
			OK 64.4% 52.6%	LA 56.5% 49.6%	MS 54.7% 47.5%	AL 57.6% 46.9%	GA 60.0% 49.9%			
			TX 65.3% 56.0%					FL 73.1% 62.5%	PR 86.5% 75.2%	

HI
83.5%
62.4%

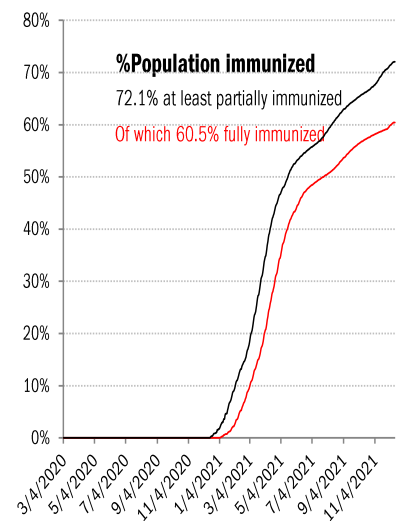
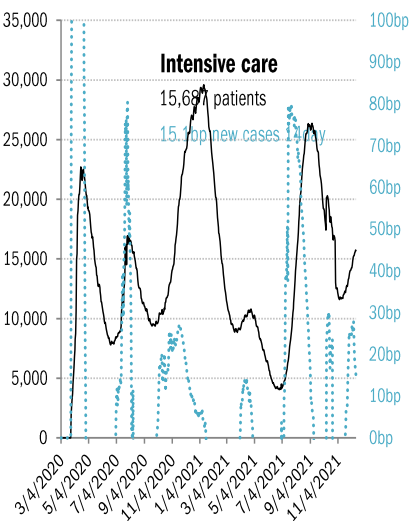
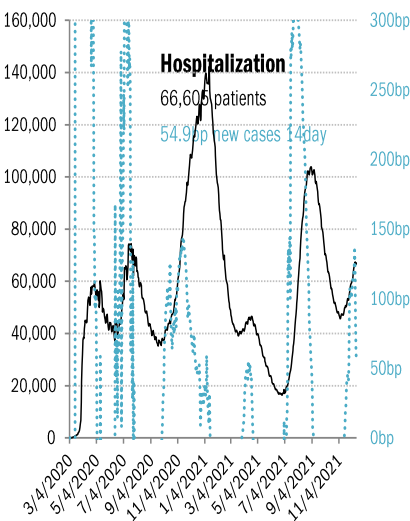
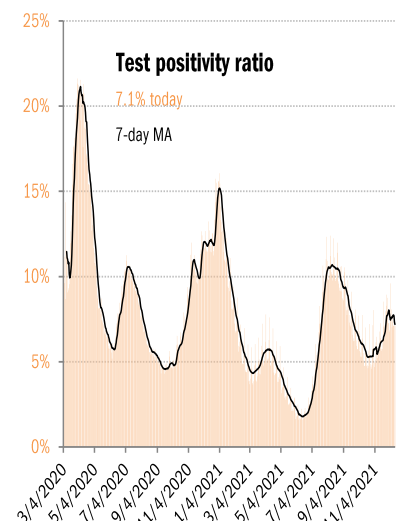
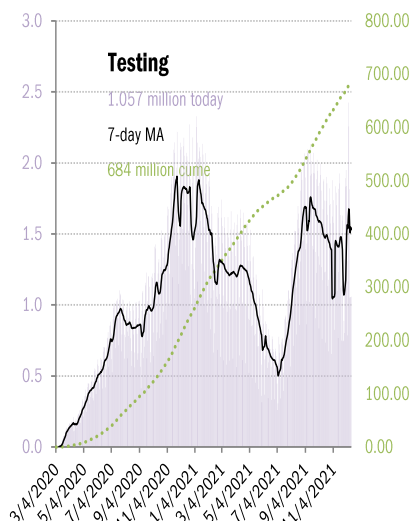
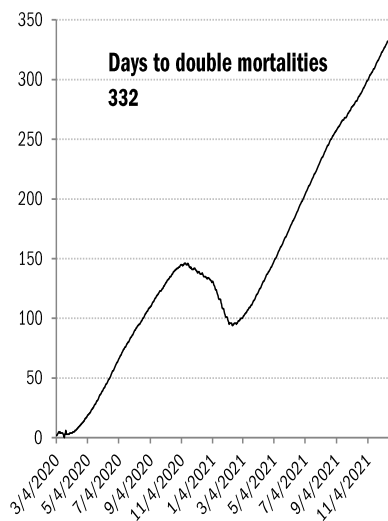
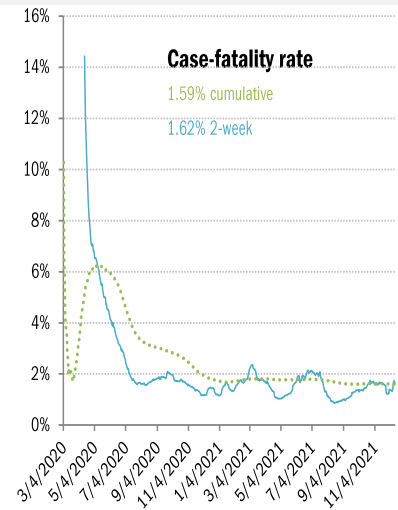
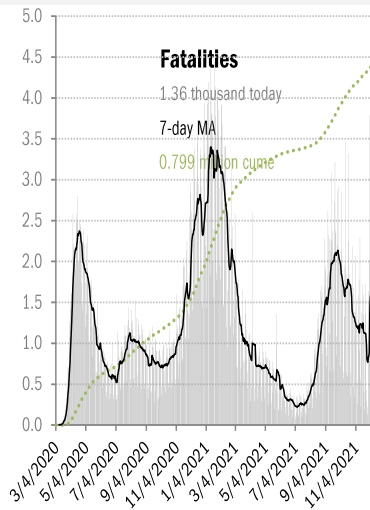
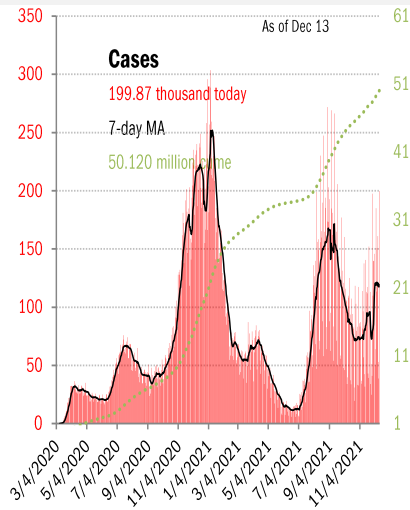
The demographics of US vaccination



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

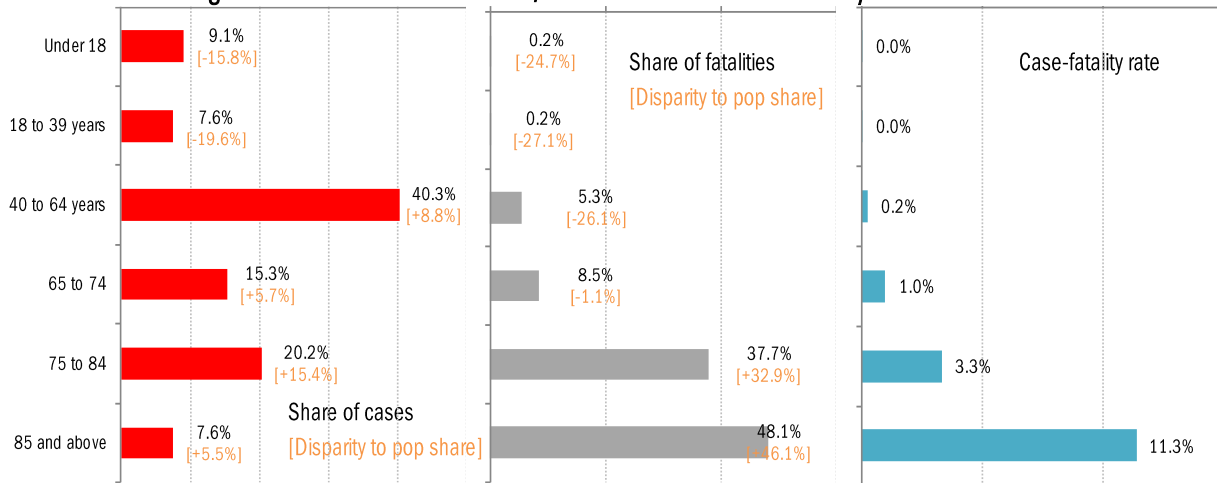
US deep-dive

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

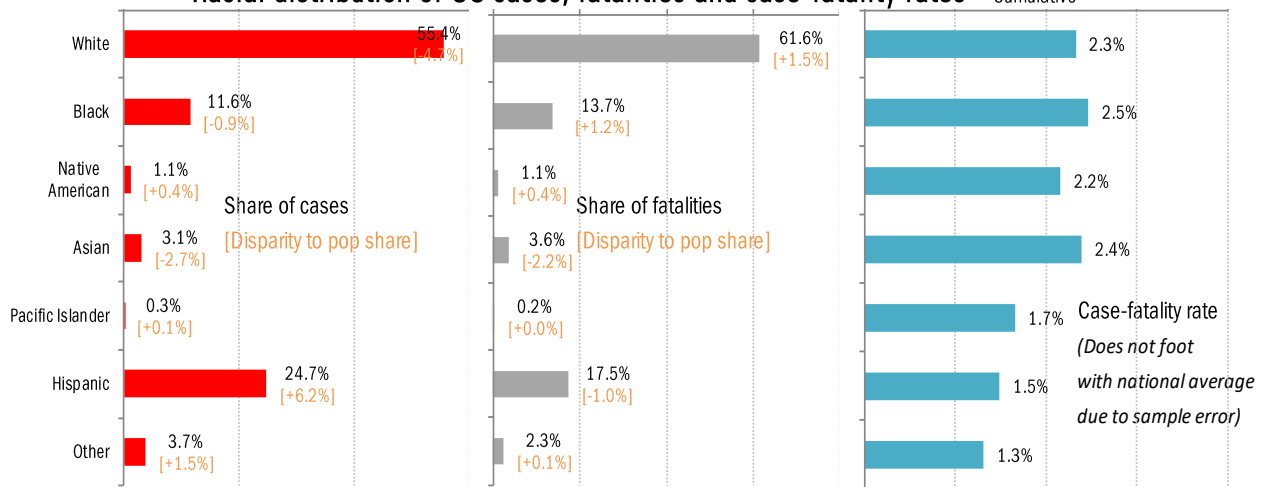


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

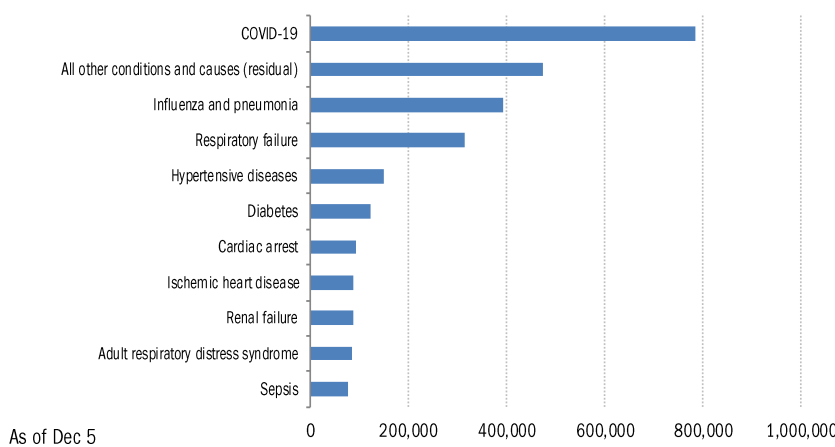


Racial distribution of US cases, fatalities and case-fatality rates



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

[Pfizer Stops 70% Omicron Hospitalizations in South Africa Study](#)

Janice Kew
Bloomberg
December 14, 2021

[Return-to-Office Plans Are Turning 'Shybrid' With Ongoing Delays](#)

Jeff Green
Bloomberg
December 11, 2021

[Reduced neutralisation of SARS-COV-2 Omicron-B.1.1.529 variant by post-immunisation serum](#)

Wanwisa Dejnirattisai et al.
medRxiv
December 11, 2021

[Britain reports first death with Omicron coronavirus variant](#)

Guy Faulconbridge and Michael Holden
Reuters
December 13, 2021

[AP-NORC poll: Omicron raises COVID worry but not precautions](#)

Kathleen Foody
Associated Press
December 13, 2021

[Some Hospitals Drop Covid-19 Vaccine Mandates to Ease Labor Shortages](#)

Robbie Whelan and Melanie Evans
Wall Street Journal
December 13, 2021

[Supreme Court Allows Vaccine Mandate for New York Health Care Workers](#)

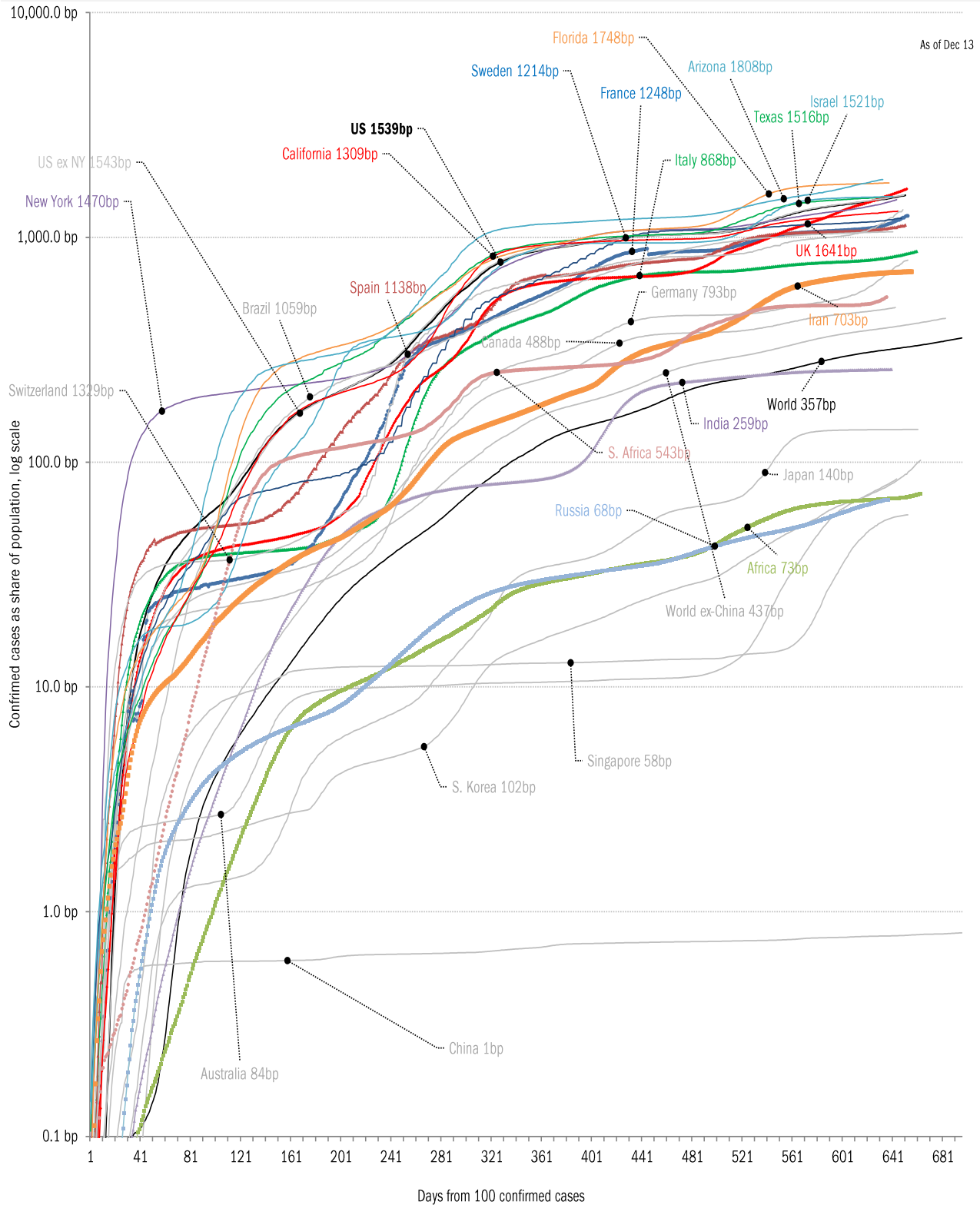
Adam Liptak
New York Times
December 13, 2021

Meme of the day



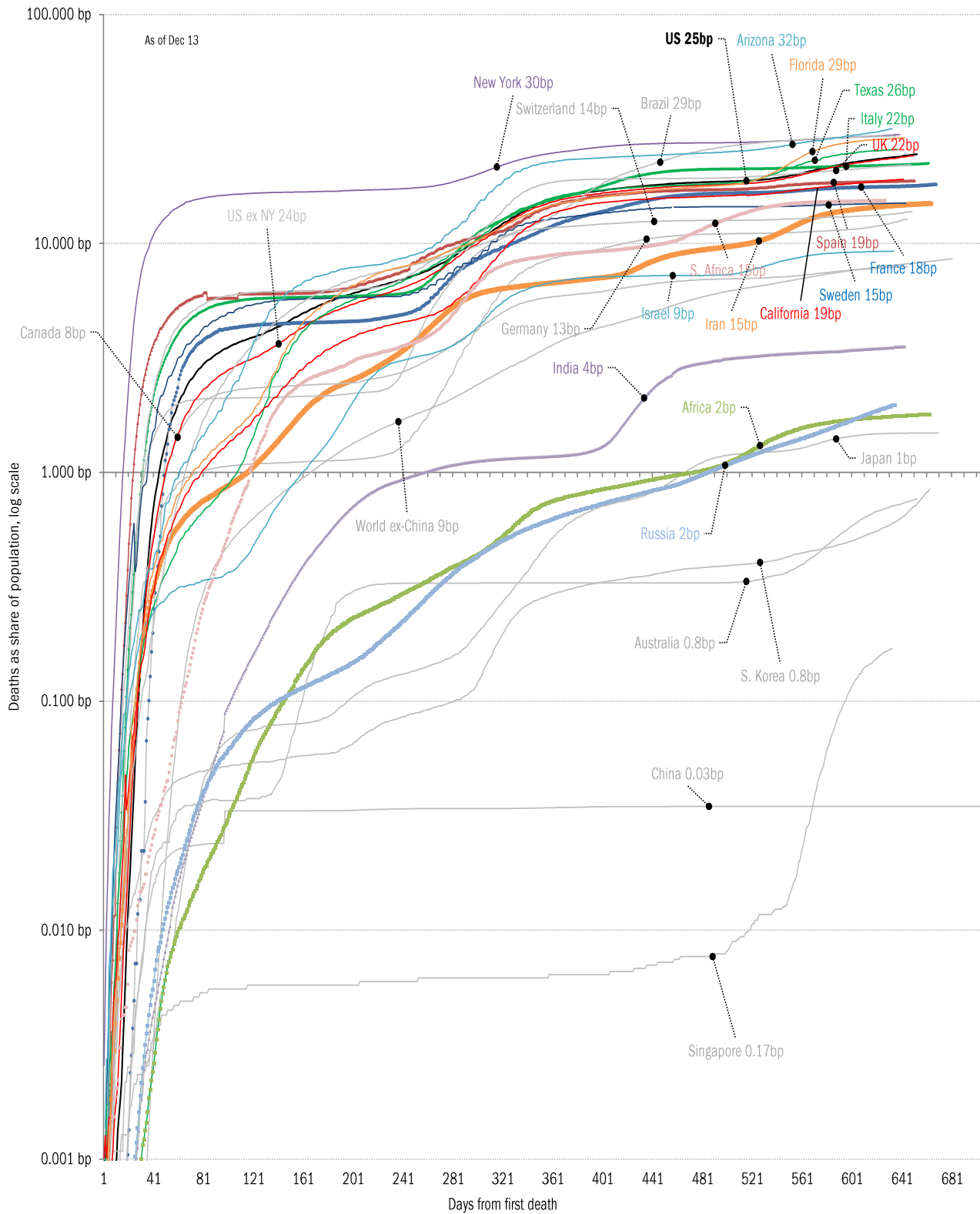
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

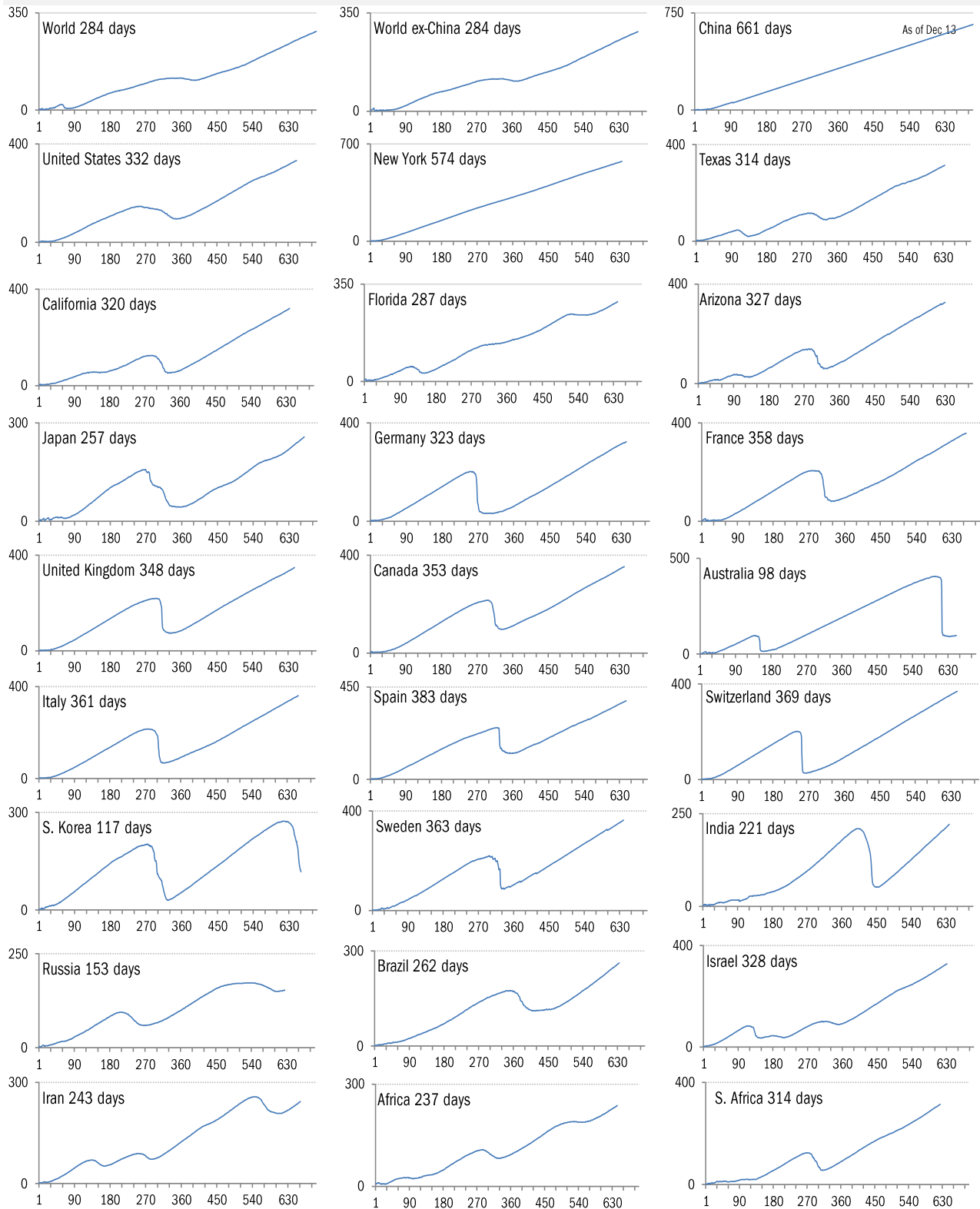


Source: [Johns Hopkins](#), TrendMacro calculations

"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

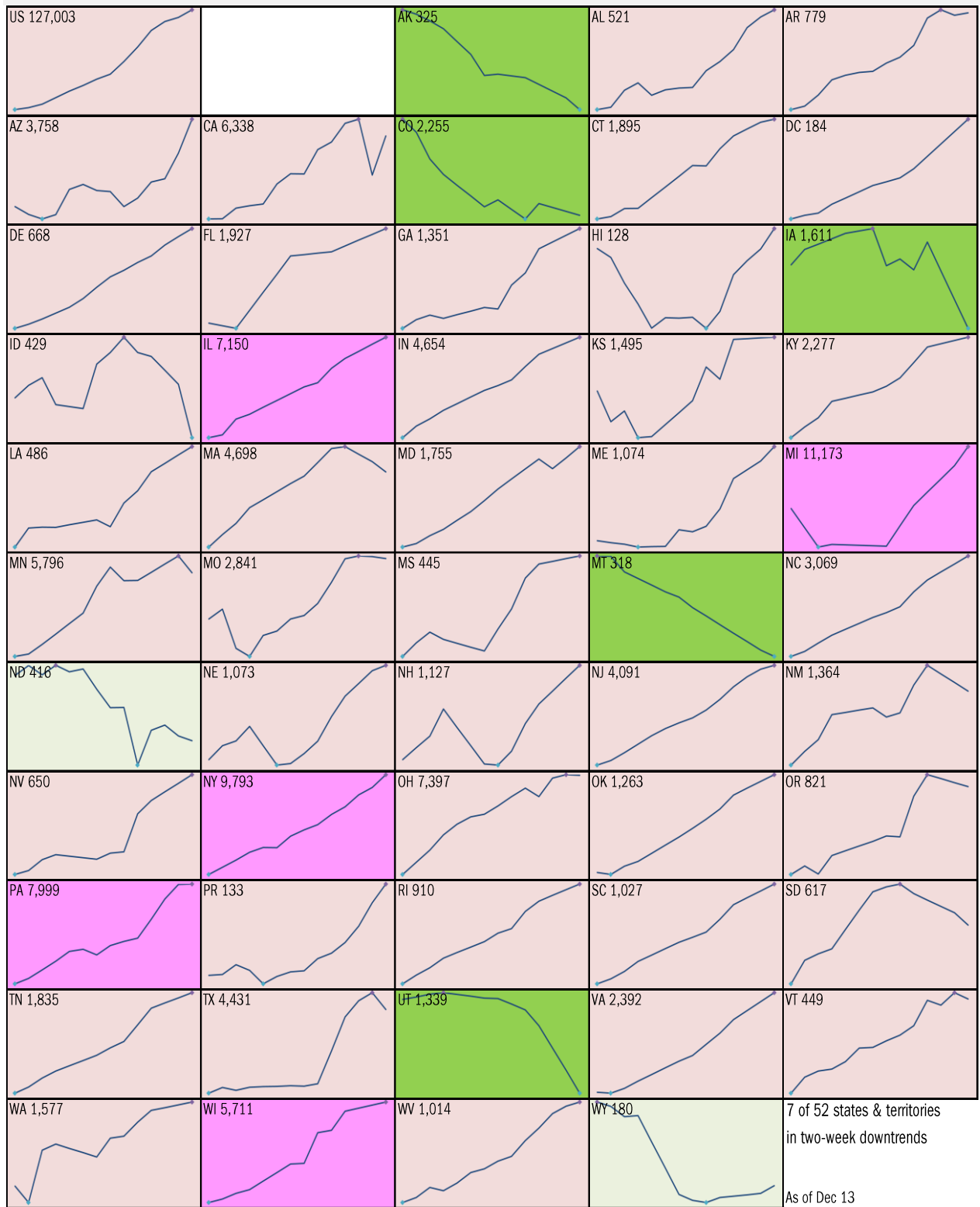


Source: [Johns Hopkins](#), TrendMacro calculations

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

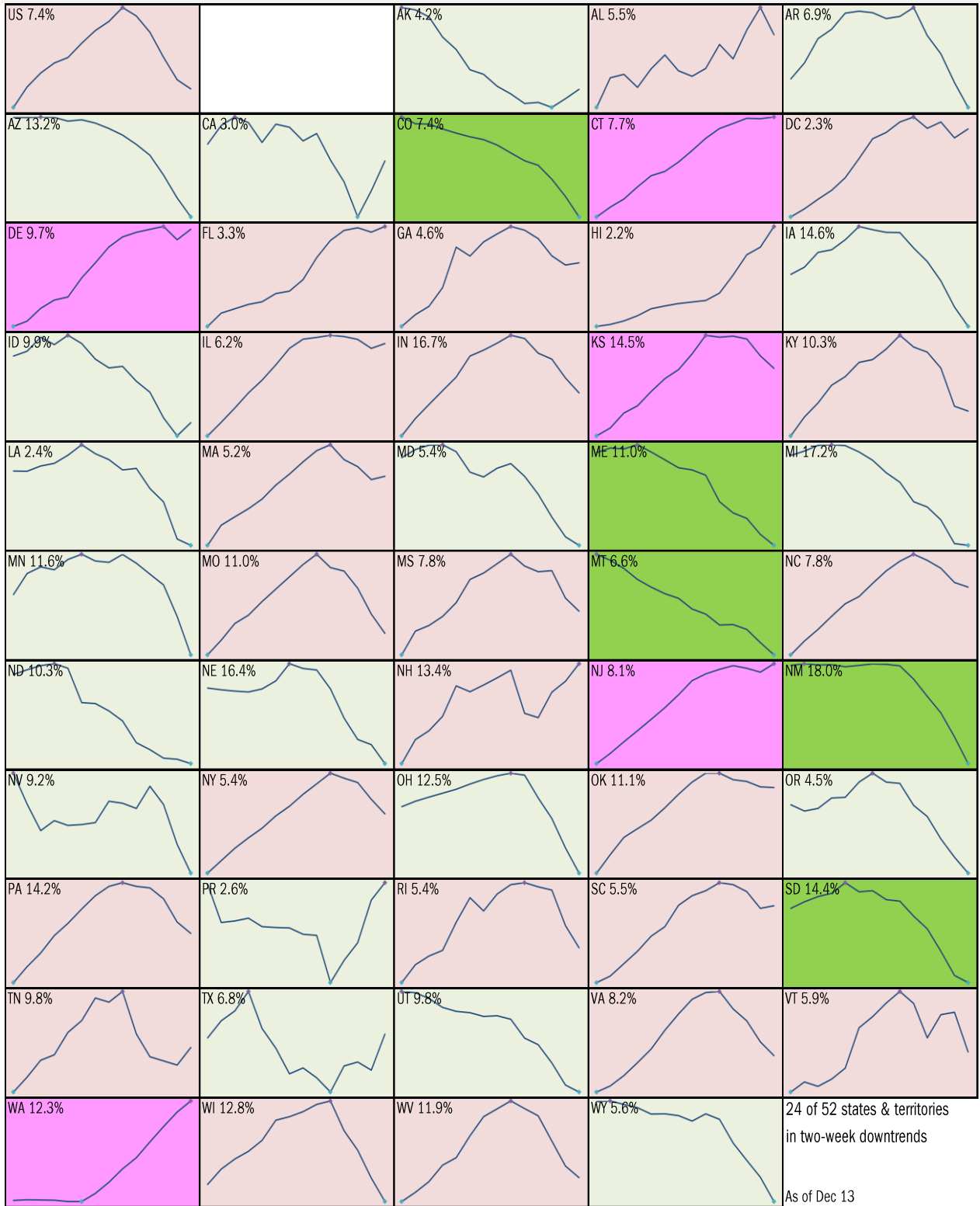


Source: [Johns Hopkins](#), TrendMacro calculations

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

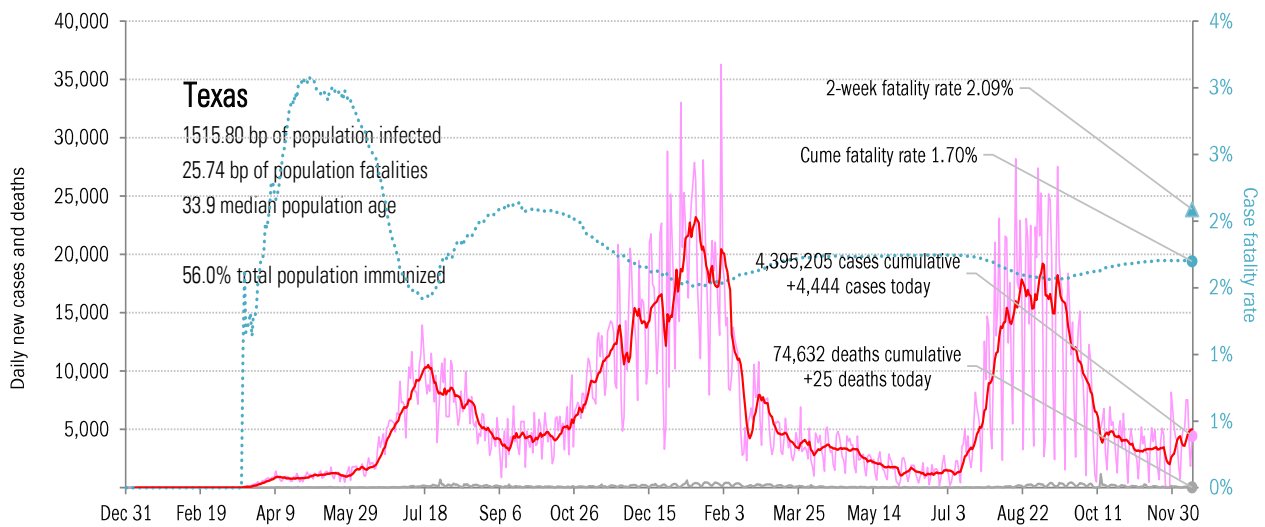
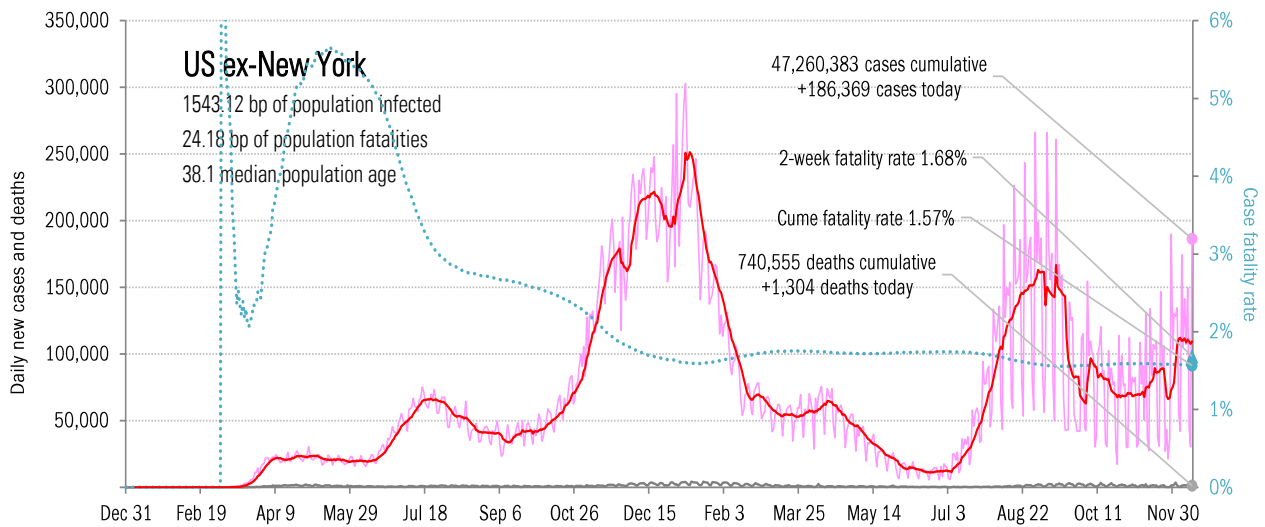
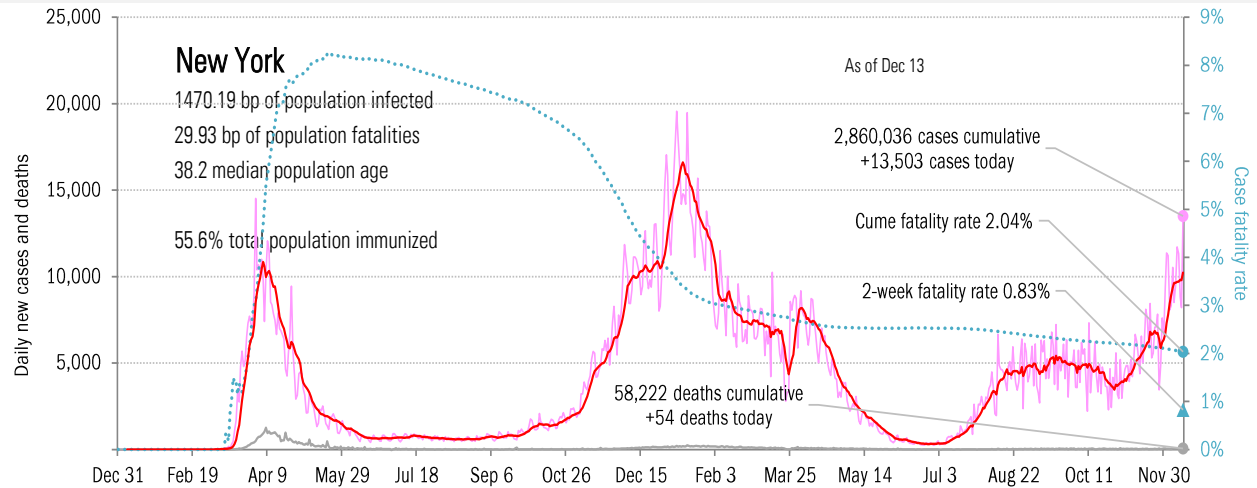
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

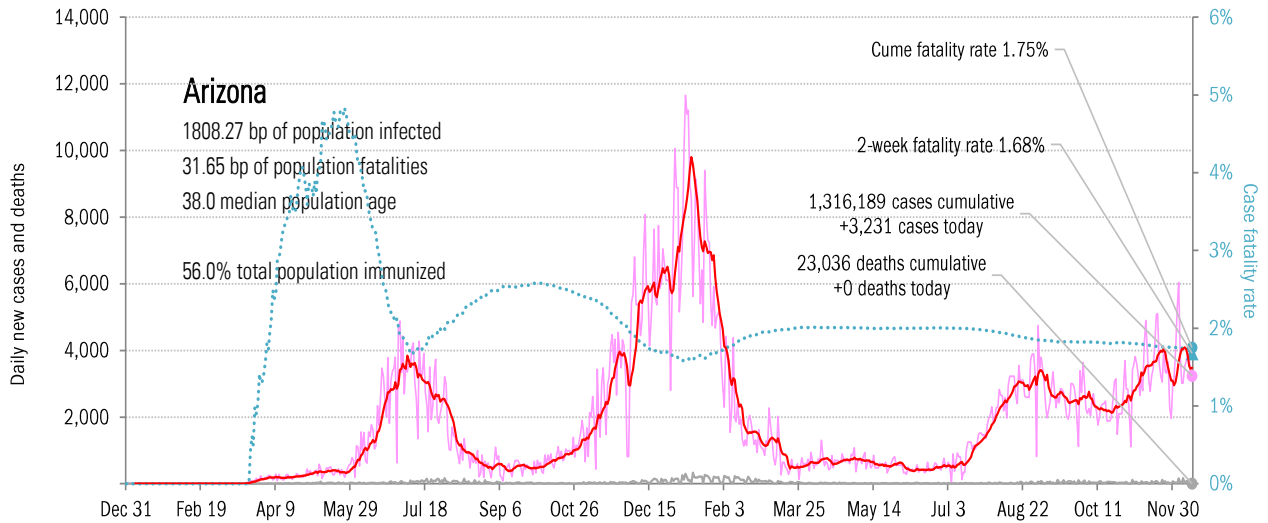
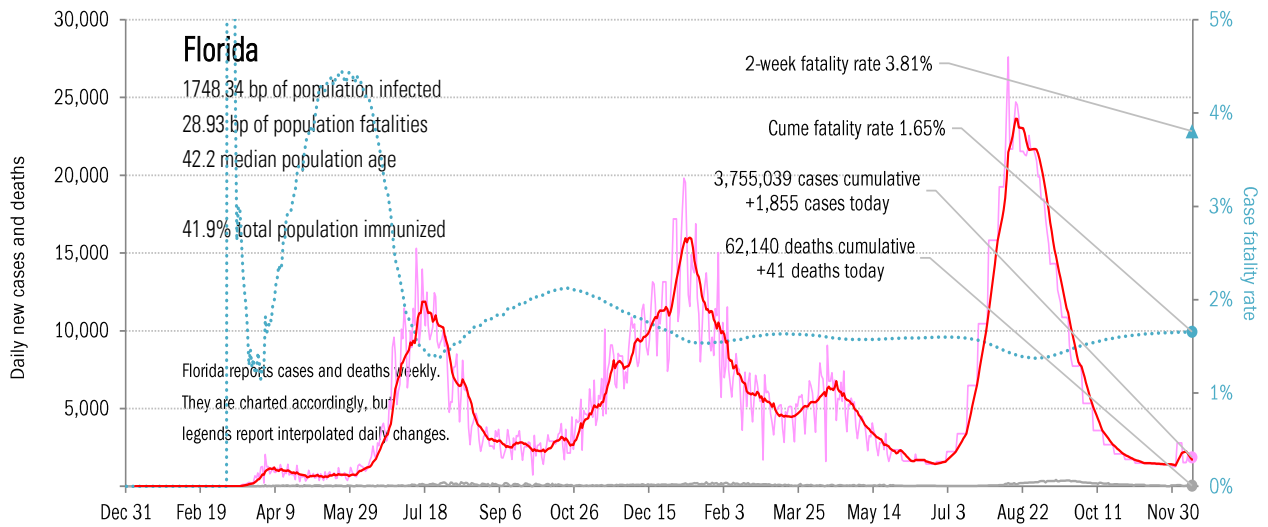
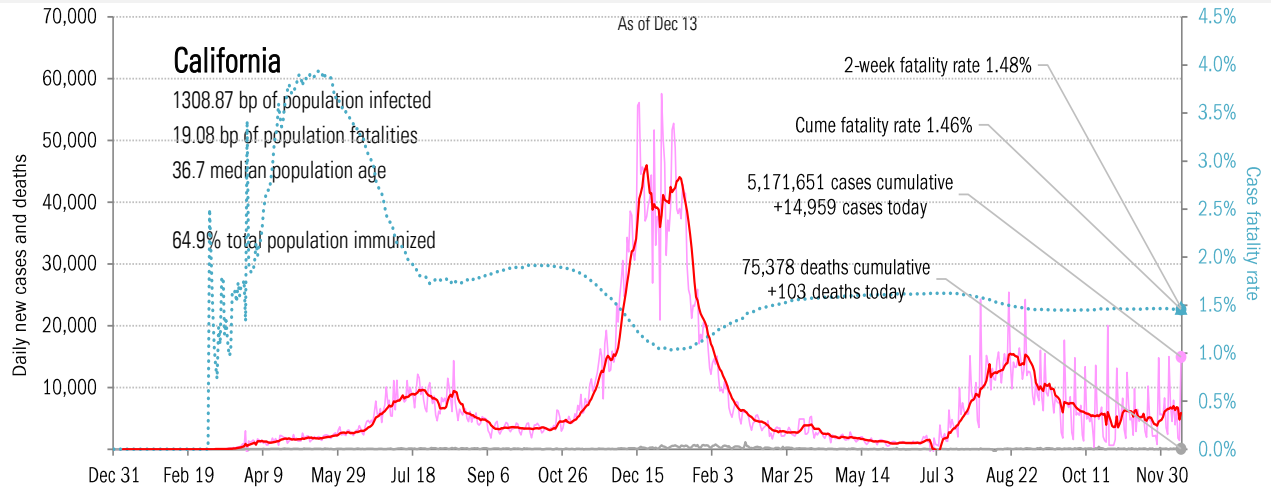
Cases: 7-day average and daily Deaths: Daily



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

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

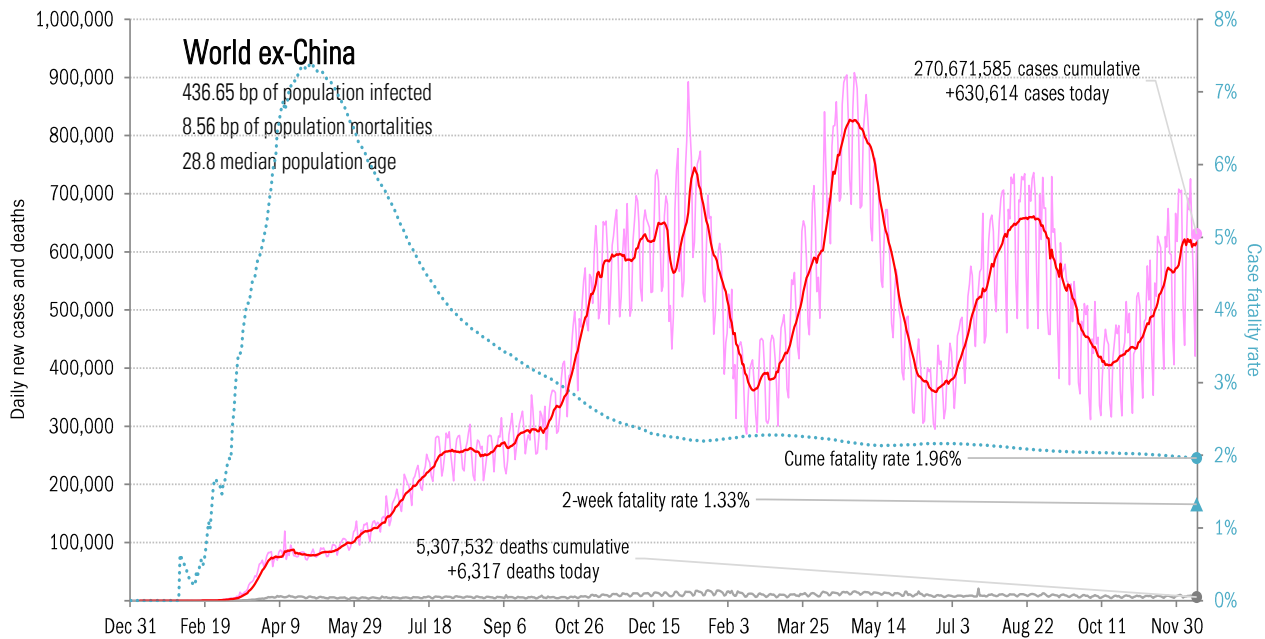
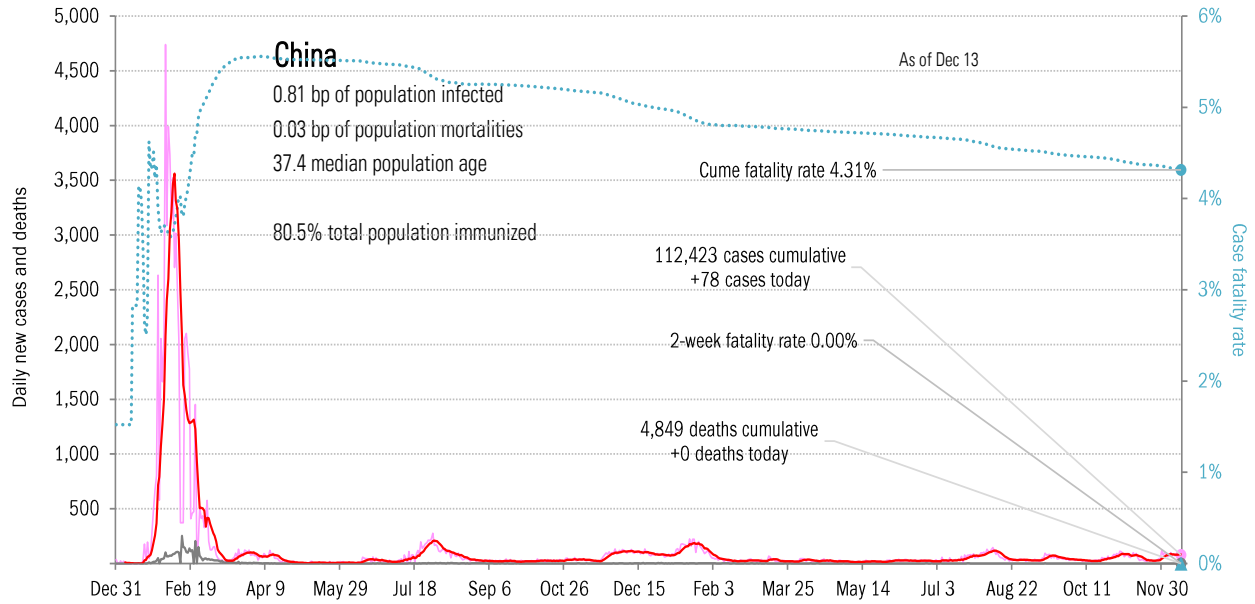
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

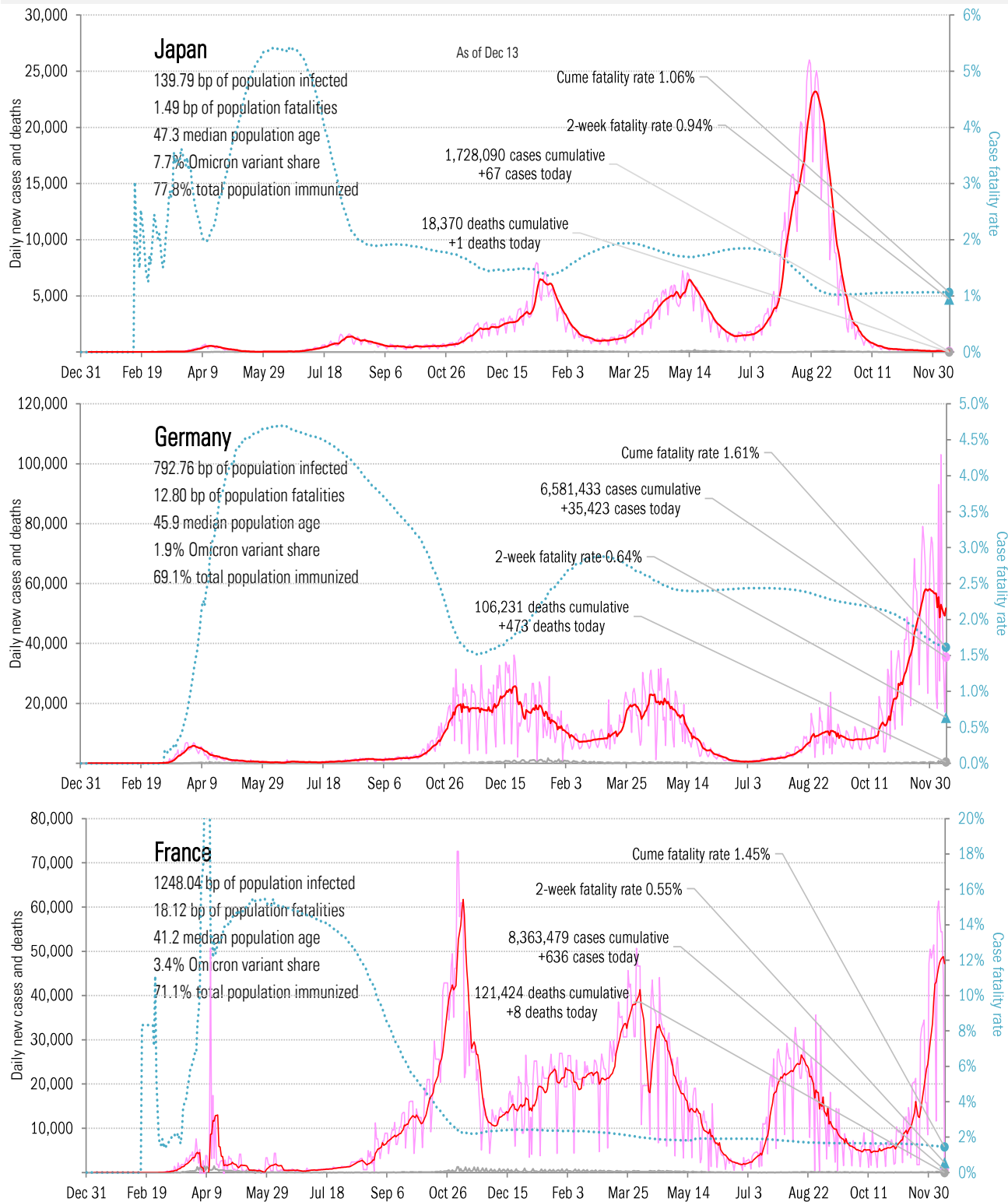
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

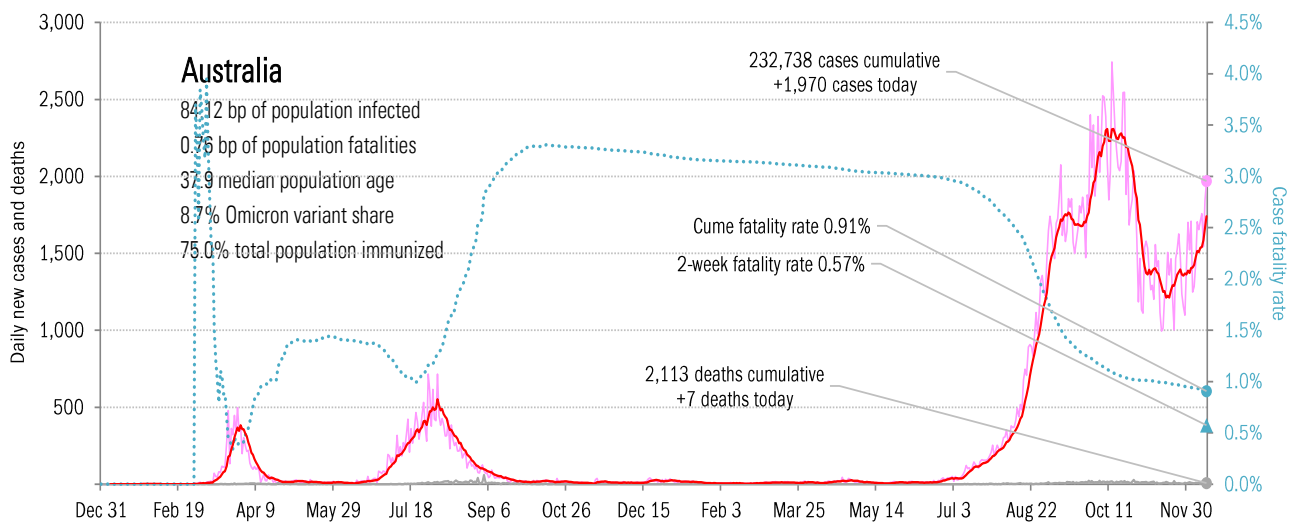
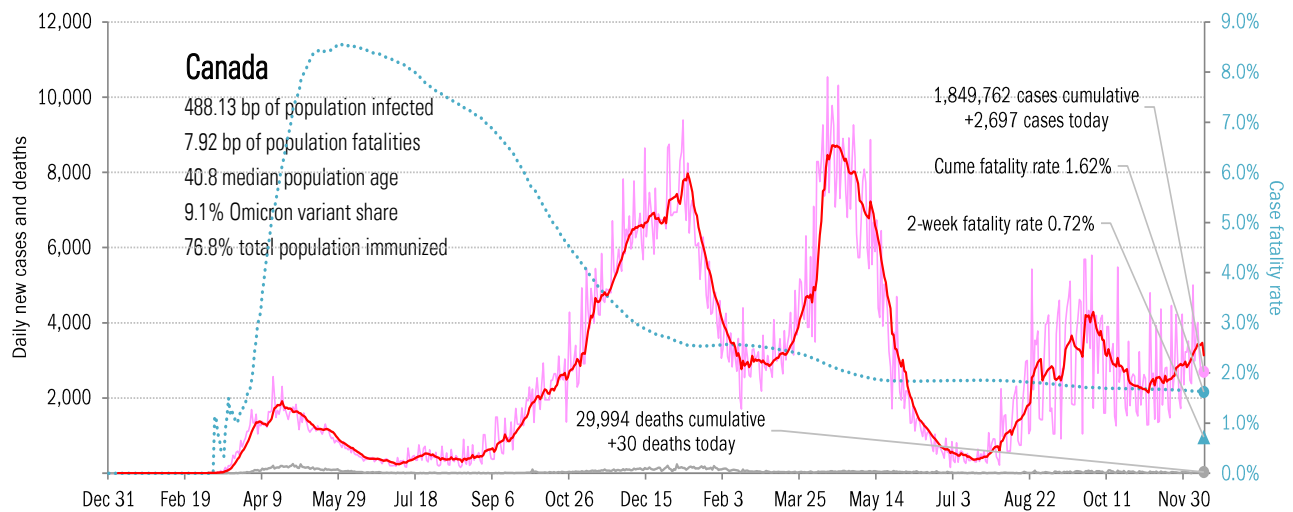
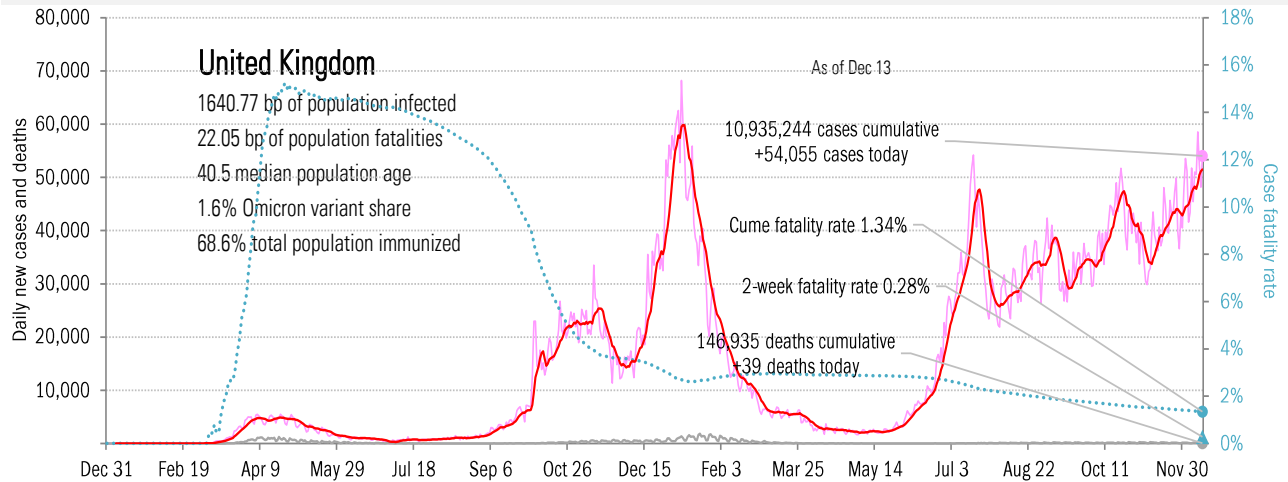
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

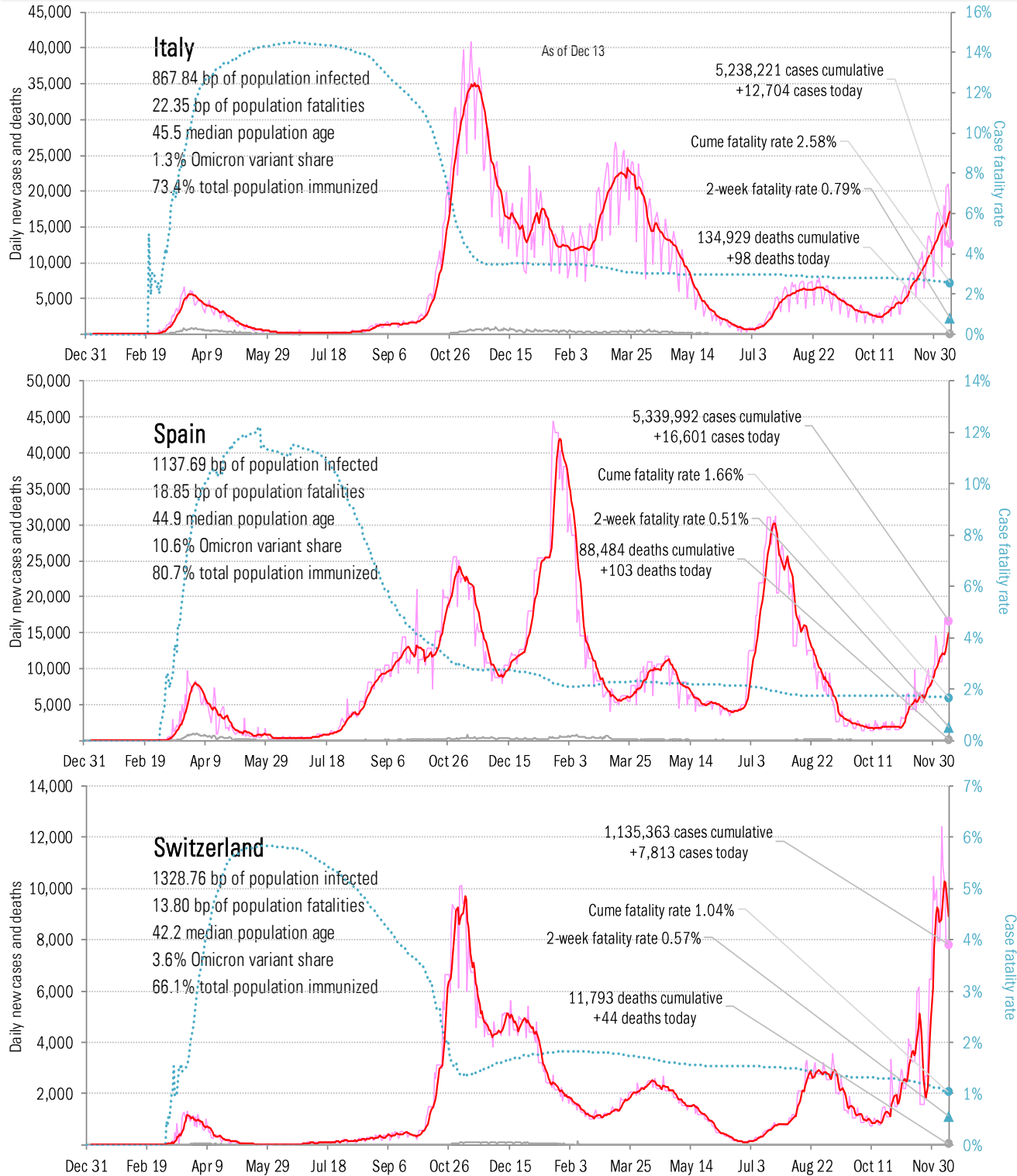
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

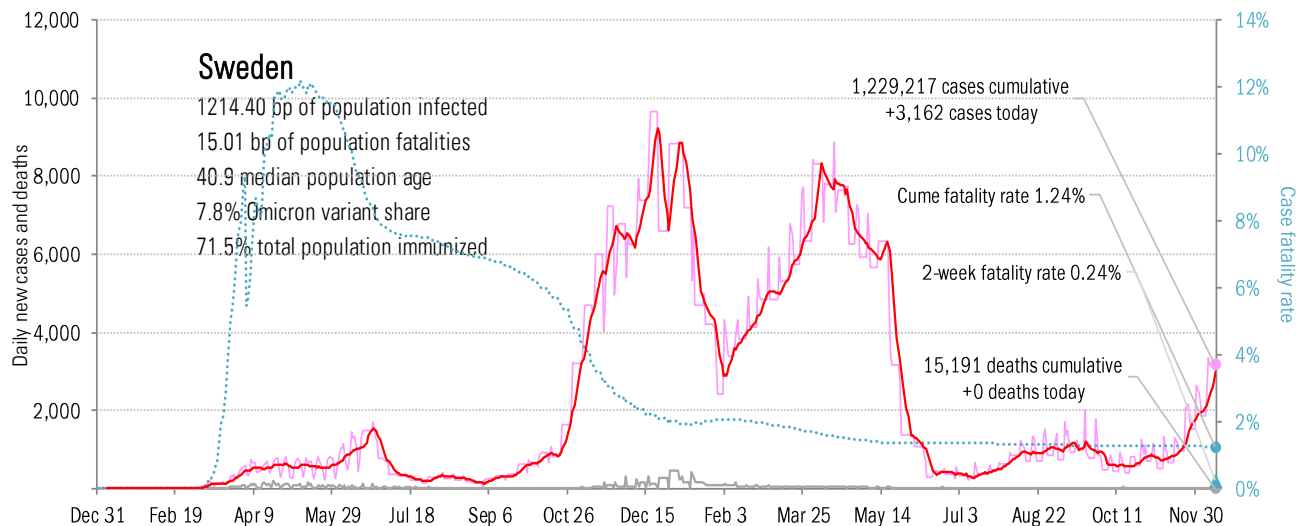
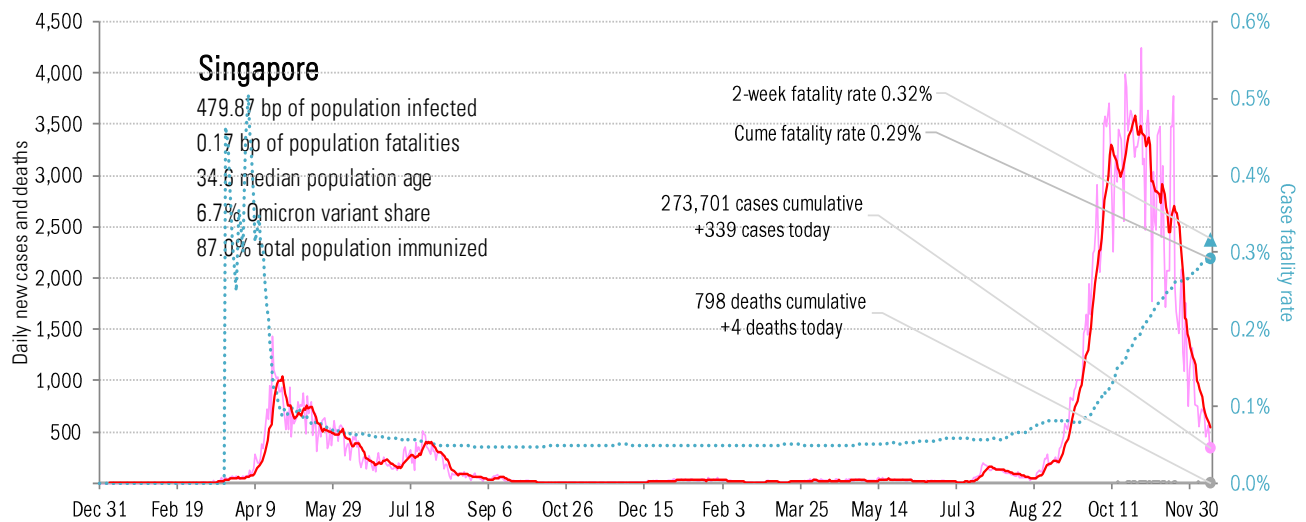
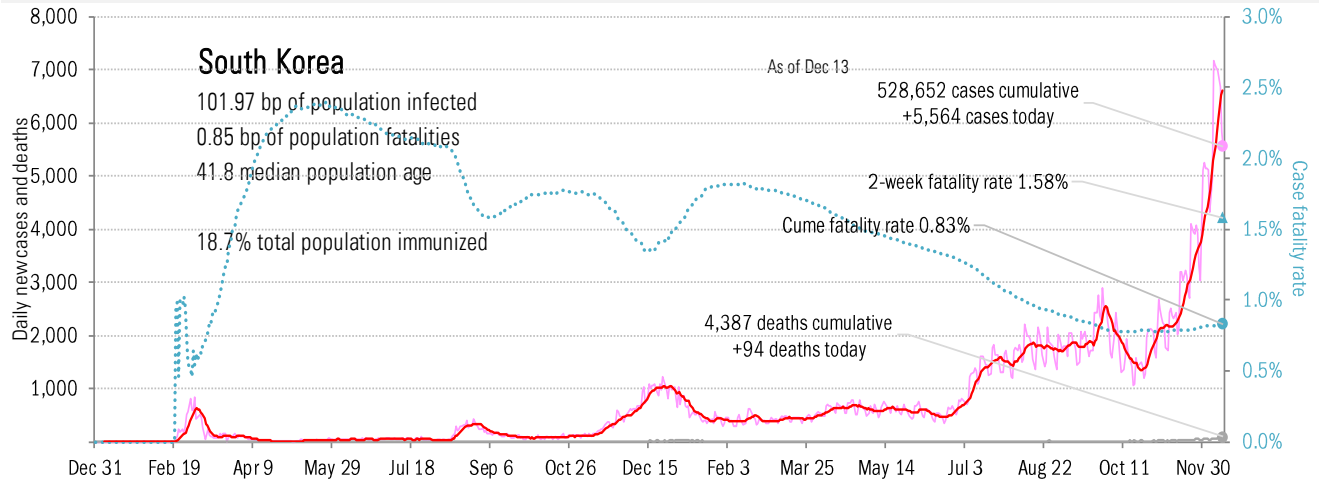
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

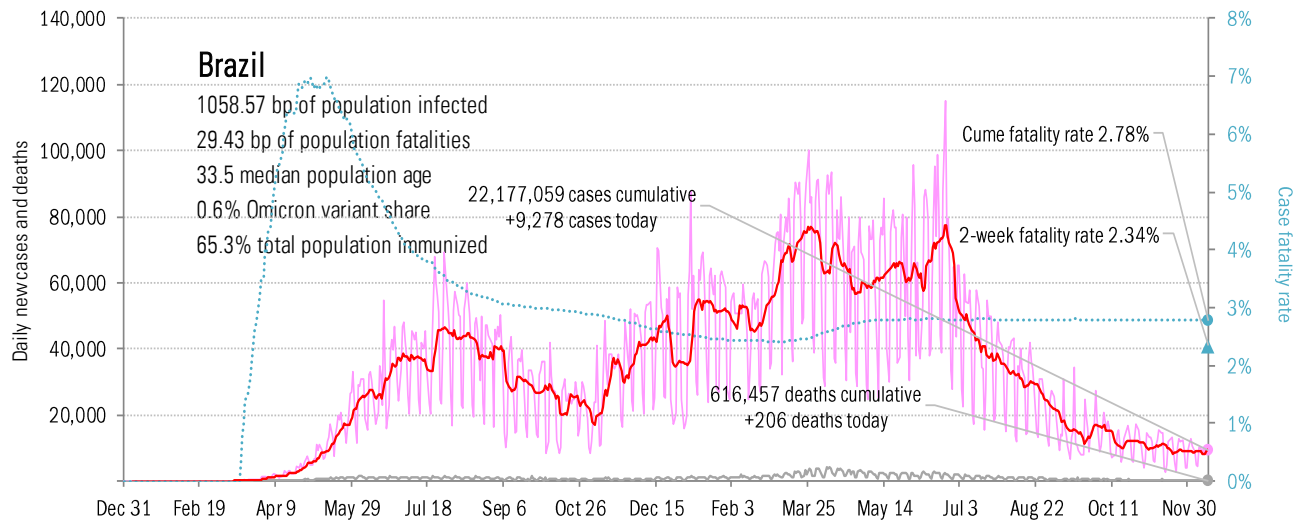
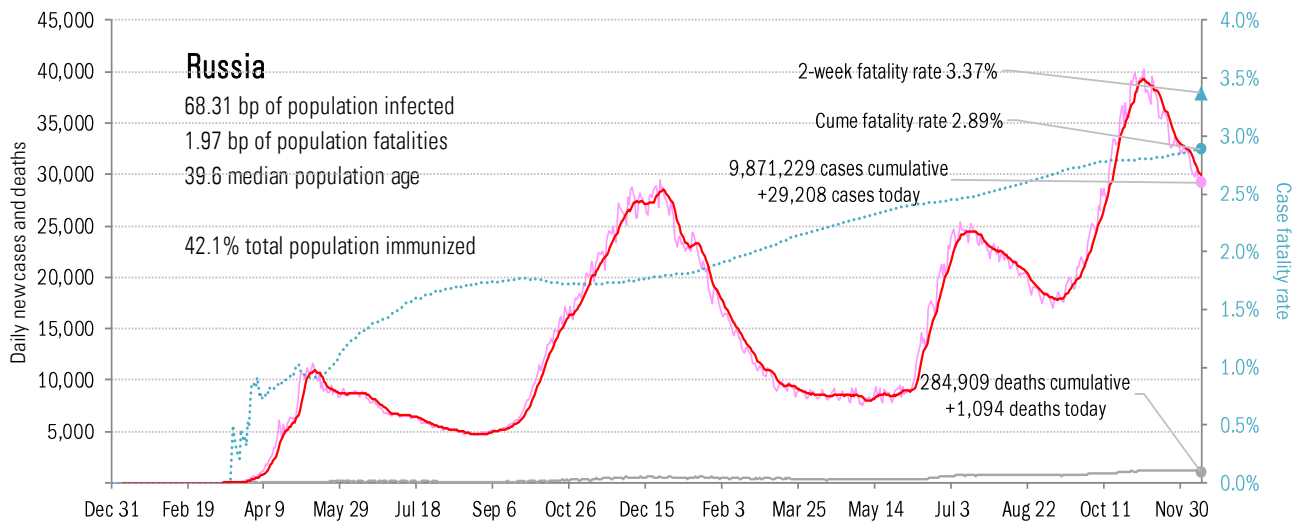
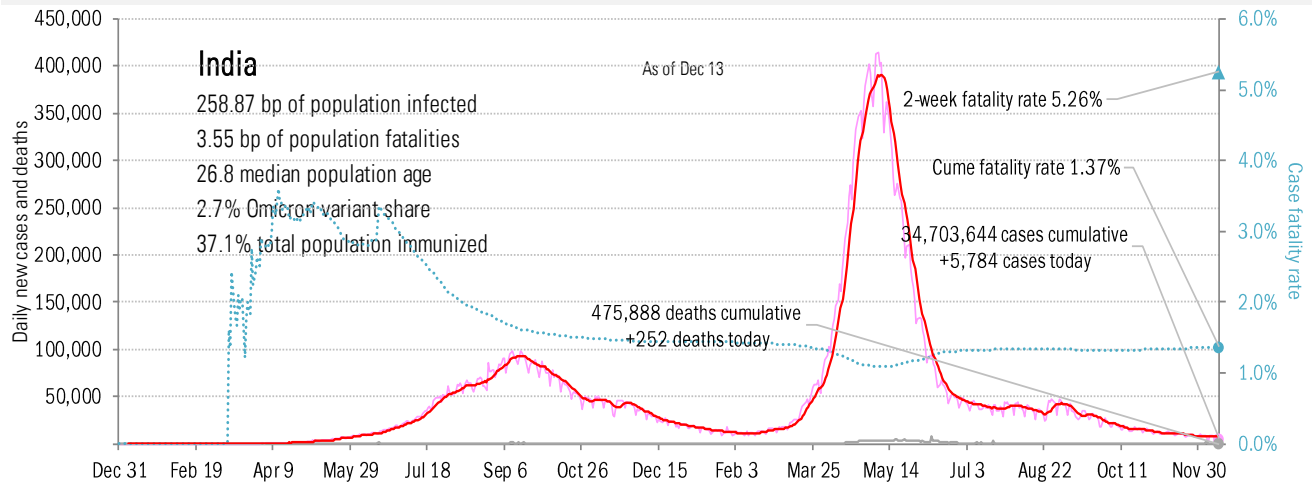
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

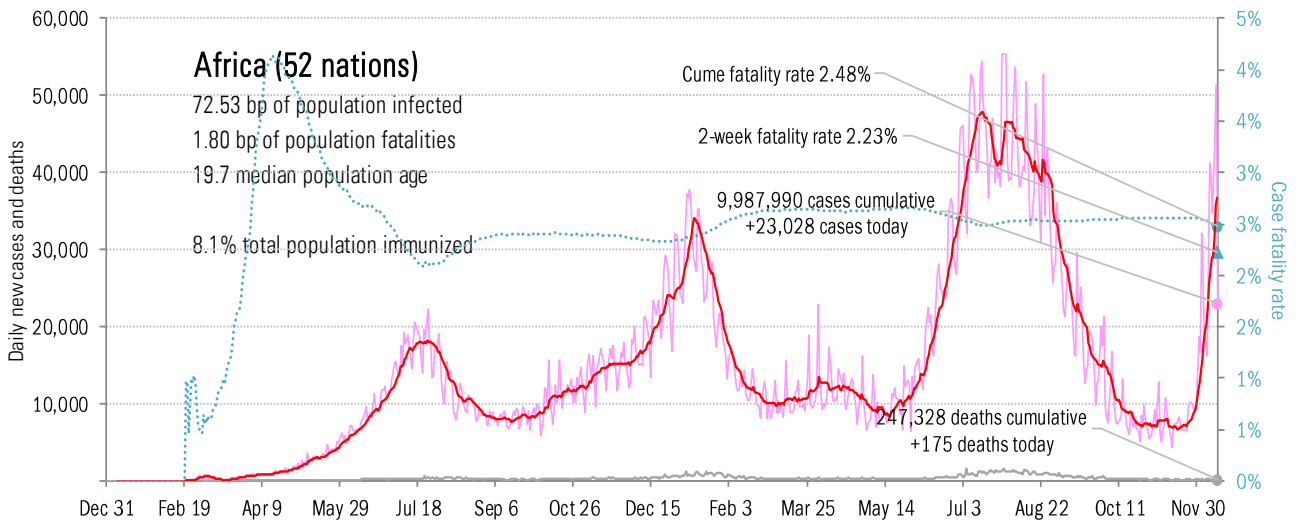
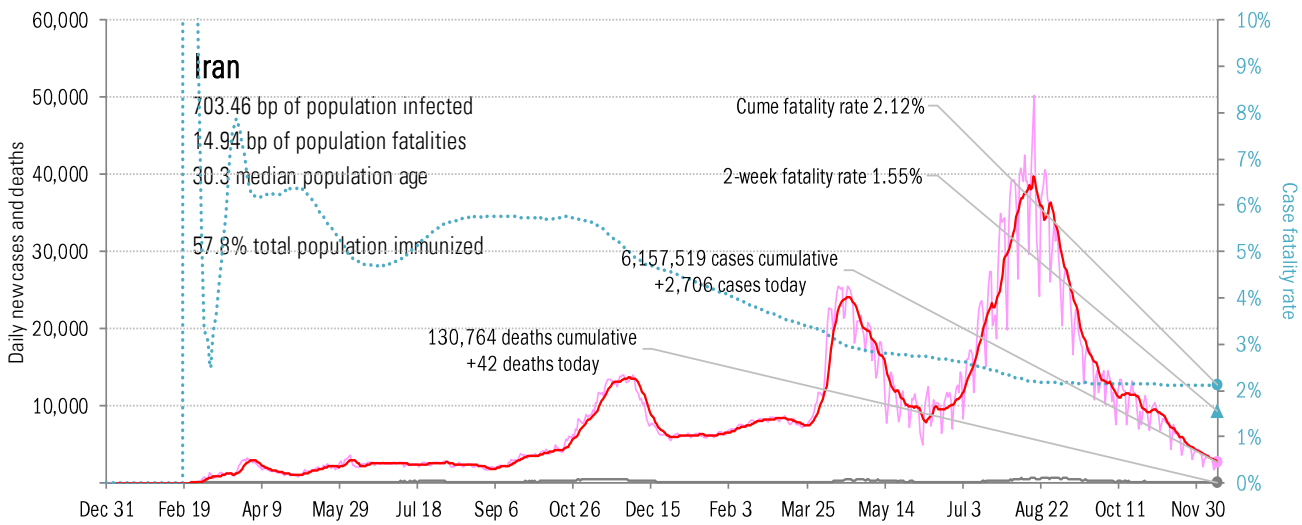
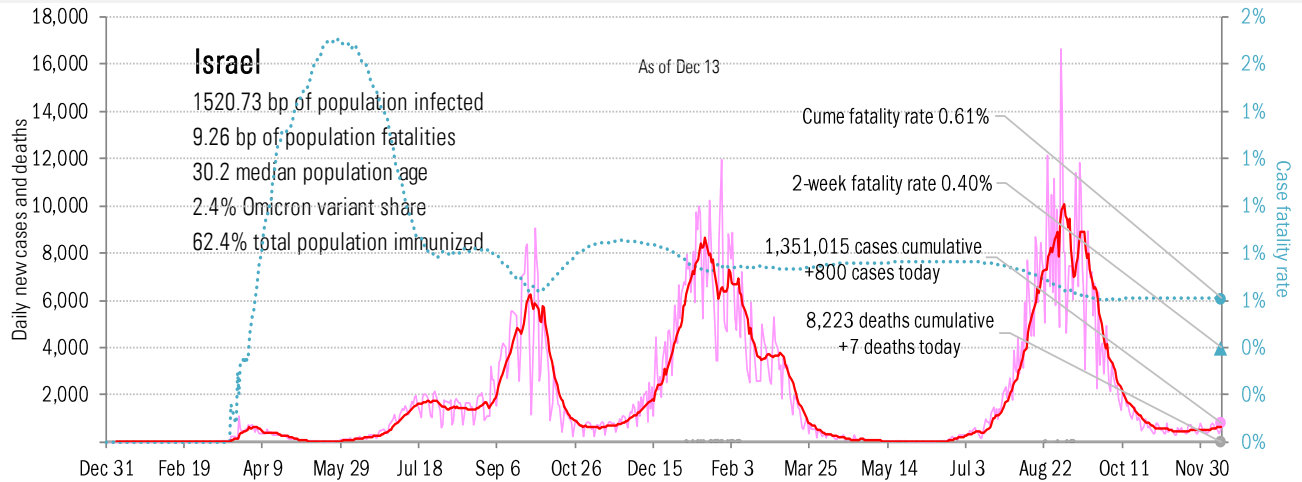
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

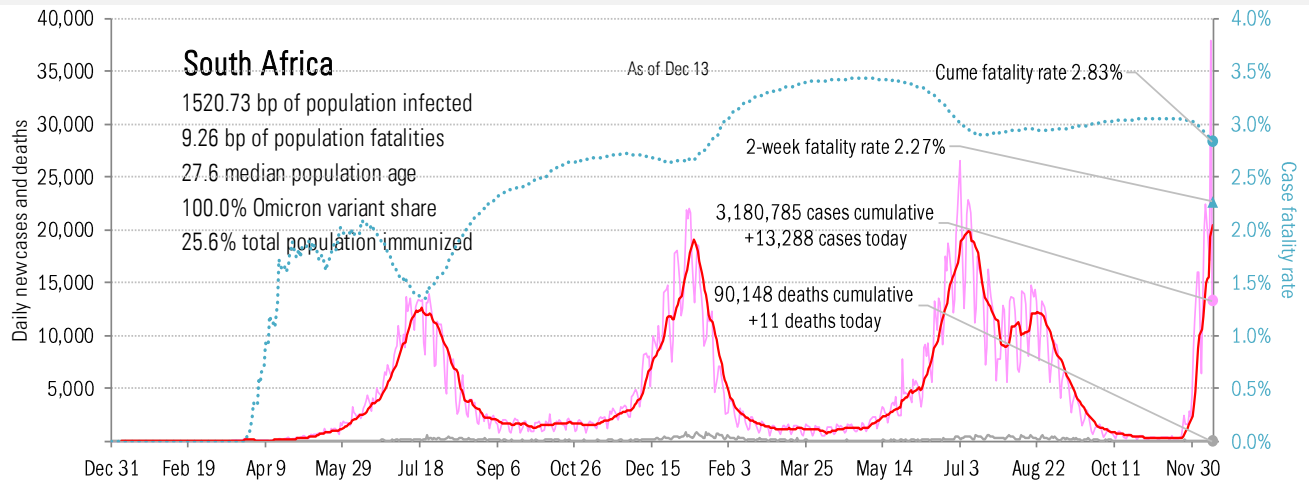
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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