

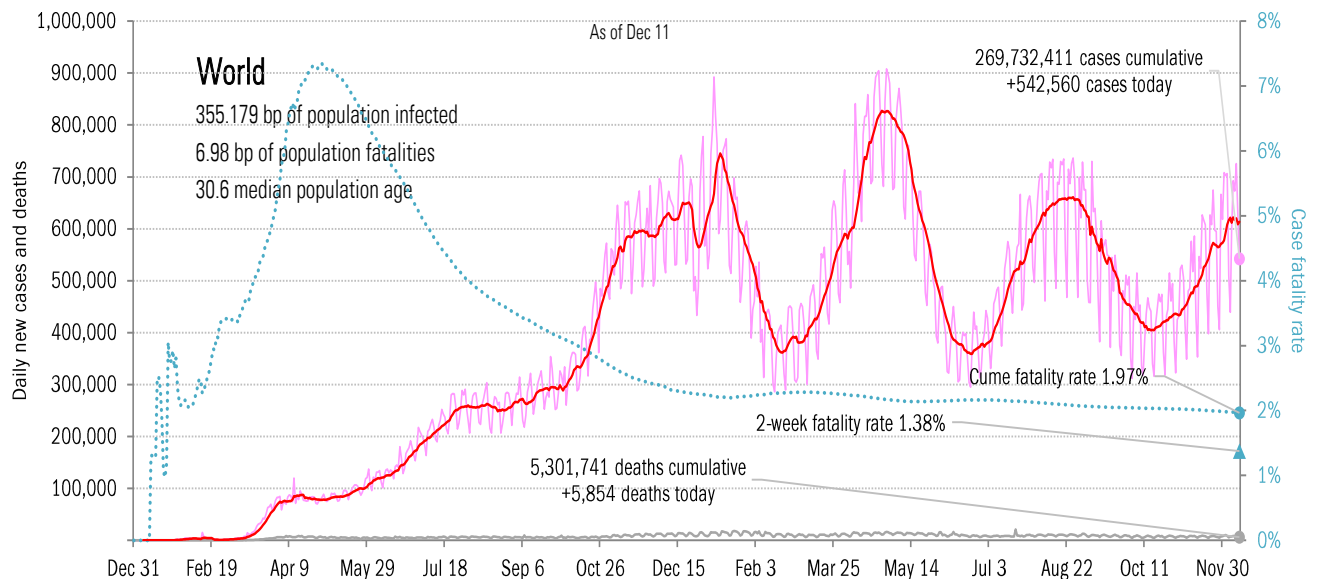
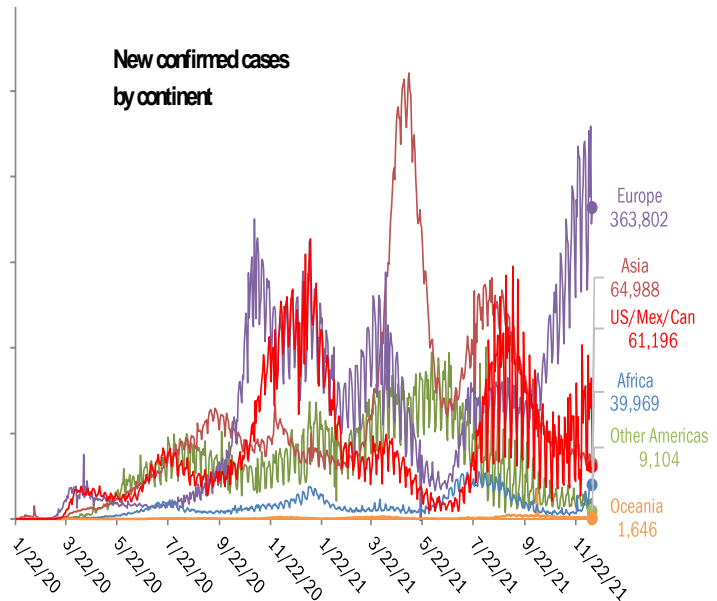
Data Insights: Covid-2019 Monitor

Sunday, December 12, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
France	+108,844	Russia	+1,142
United States	+53,003	India	+562
United Kingdom	+52,423	Poland	+486
Germany	+32,752	Ukraine	+475
Russia	+29,815	United States	+461
Poland	+23,762	France	+212
Italy	+21,035	Vietnam	+209
Turkey	+19,255	Mexico	+197
Netherlands	+17,760	Turkey	+191
South Africa	+17,153	Czechia	+135
+375,802		+4,070	
World	+542,560	World	+5,854
Top ten	69%	Top ten	70%



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

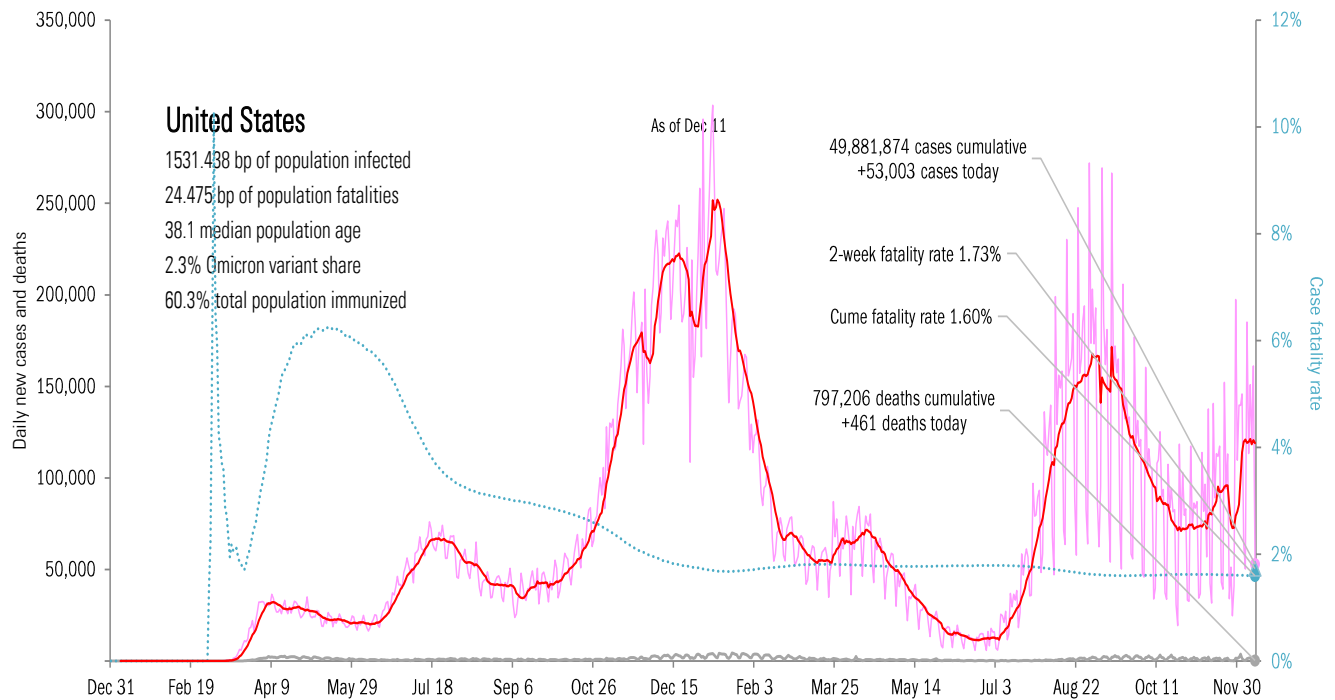
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
PA	+11,052		PA	+156		GA	+109		CA	5,155,233		CA	75,270		TX	388,866		RI	88%	KY	94%
NY	+8,824		AZ	+74		CH	+100		TX	4,388,923		TX	74,578		FL	325,597		MA	88%	RI	92%
CH	+8,072		NY	+50		CA	+74		FL	3,751,329		FL	62,053		CA	324,803		PA	86%	NM	92%
NJ	+4,596		FL	+46		IL	+70		NY	2,838,326		NY	58,122		NY	177,846		MD	86%	NH	89%
AZ	+3,774		NJ	+25		NJ	+69		IL	1,884,744		PA	34,571		GA	164,581		MI	86%	MO	89%
TX	+3,636		CA	+23		KY	+60		PA	1,829,351		GA	30,823		CH	141,860		MO	85%	NE	89%
MO	+2,292		TX	+23		NY	+60		CH	1,776,439		IL	29,234		PA	132,678		ND	84%	AL	88%
FL	+1,855		AL	+22		OK	+59		GA	1,678,746		NJ	28,568		KY	116,508		WA	83%	MI	88%
CA	+1,799		AR	+9		MI	+49		MI	1,567,578		CH	27,371		IL	115,191		WV	83%	TX	88%
WV	+1,134		HI	+8		MO	+44		NC	1,566,269		MI	26,914		MI	109,285		NY	83%	OK	86%
+47,034			+436			+694			26,436,938			447,504			1,997,215						
All states	+53,003			+461			+865		All states	49,881,874			797,206			3,600,254		All states	70%		67%
Top ten	89%			95%			80%		Top ten	53%			56%			55%		Median	79%		80%

Some states not reporting

Five most improved US states

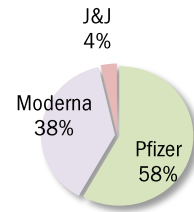
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-13,788	CH	-360	AZ	-118	ND	+190 bp
TX	-11,441	MI	-266	MIN	-56	UT	+40 bp
IL	-7,529	TX	-80	IN	-42	CT	+30 bp
WI	-6,769	CO	-73	PA	-41	MP	+30 bp
FL	-6,561	KY	-63	WI	-40	AR	+20 bp



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	495,603,067		+2.167 million	US	60.3%	71.9%
Boosters	53,792,164		+1.193 million	UK	68.5%	75.1%
	One dose	% Pop	Immune	% pop	New immune today	
Total population	244,596,312	73%	206,799,670	62%	+0.413 million	France 70.8% 77.3%
Age 12 to 17	14,872,527	62%	12,482,491	52%	+0.021 million	Spain 80.7% 82.3%
Age 18 to 64	165,652,714	81%	141,639,880	69%	+0.171 million	Germany 68.9% 71.9%
Age 65 and over	57,710,393	100%	49,393,107	90%	+0.033 million	Italy 73.4% 78.9%
						Australia 74.7% 78.4%
						Israel 62.3% 68.9%
						Canada 76.7% 81.7%
						Japan 77.7% 79.4%
						Africa 8.0% 12.3%
						India 36.8% 58.5%
						Brazil 65.1% 77.1%
						China 80.5% 84.8%



State
At least partial immunity as % population
Full immunity as % population



Every American >18 immunized in **54 days** by Feb 3, 2022
 73.8% of population >18 immunized
 17.5% previously tested positive
91.4% vs 60% adult herd immunity

Global data differs due to sources, timing

AK
64.0%
55.4%

WI
66.9%
60.8%

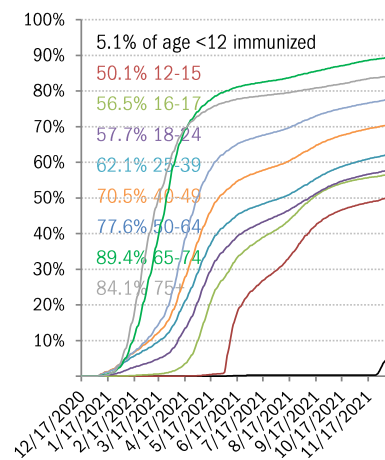
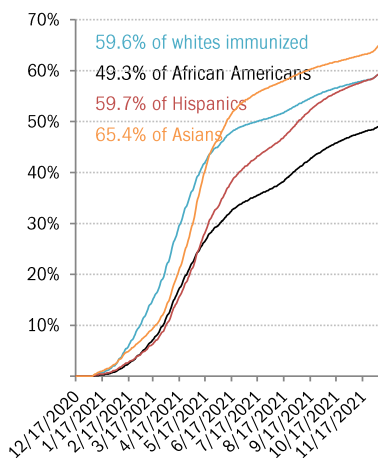
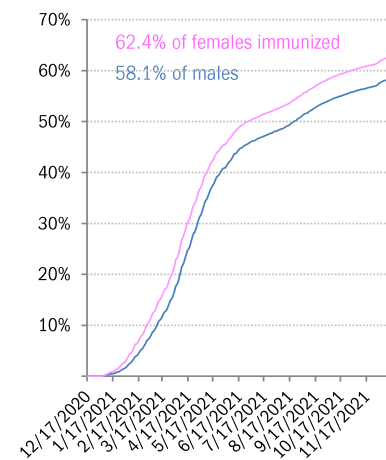
As of Dec 11

ME
83.6%
74.1%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
74.1%	51.4%	60.9%	61.0%	70.1%	70.6%	62.1%	80.8%	87.0%	91.6%	
66.5%	45.7%	52.9%	51.5%	64.1%	63.0%	55.6%	70.3%	74.9%	65.6%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
72.6%	67.7%	54.6%	68.9%	63.6%	56.7%	59.4%	83.7%	81.0%	87.7%	
65.3%	55.4%	46.4%	55.9%	57.9%	51.3%	54.2%	60.0%	69.1%	72.9%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
80.5%	65.9%	72.8%	65.1%	61.1%	61.4%	89.0%	77.0%	78.3%	86.0%	85.5%
64.6%	57.1%	64.8%	58.7%	52.1%	53.3%	71.0%	66.6%	69.1%	73.5%	74.7%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	65.6%	78.4%	67.5%	61.6%	57.7%	72.9%	61.4%	84.4%	74.7%	
	55.8%	64.8%	55.8%	50.3%	50.3%	55.5%	52.2%	66.0%	62.8%	
			OK	LA	MS	AL	GA			
			64.2%	56.4%	54.7%	57.5%	59.9%			
			52.5%	49.5%	47.5%	46.8%	49.9%			
			TX					FL		PR
			65.2%					72.9%		86.5%
			55.8%					62.3%		75.2%

HI
83.4%
62.2%

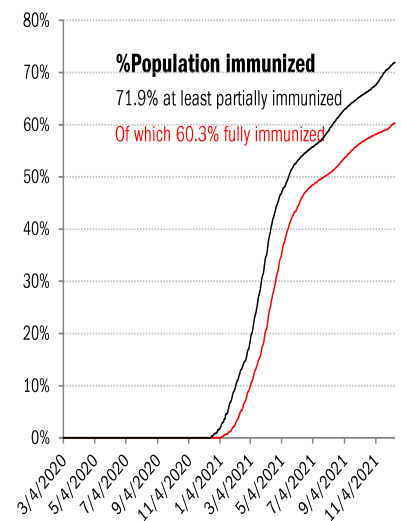
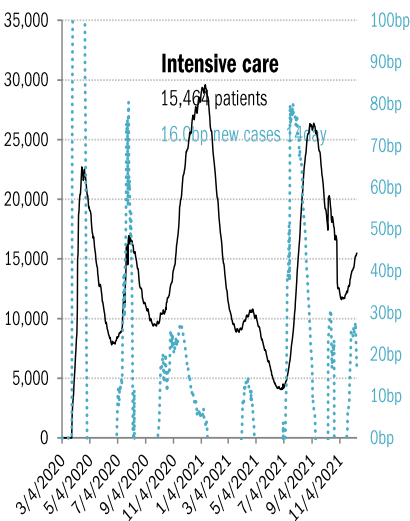
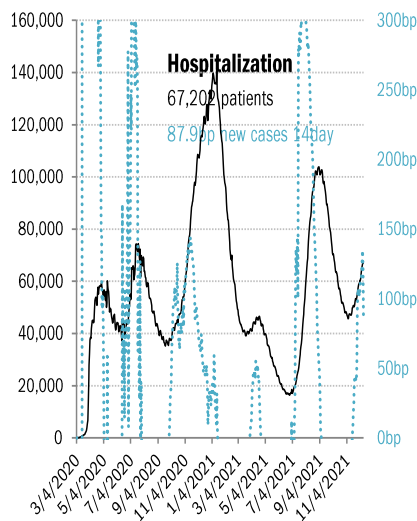
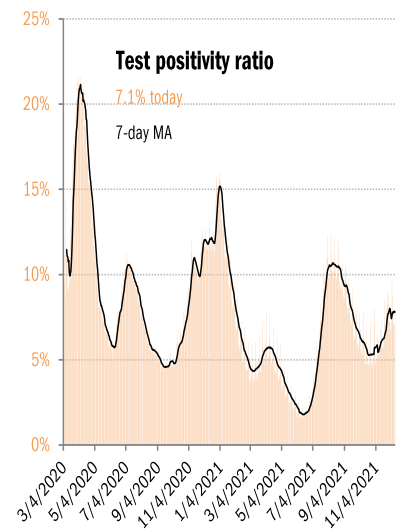
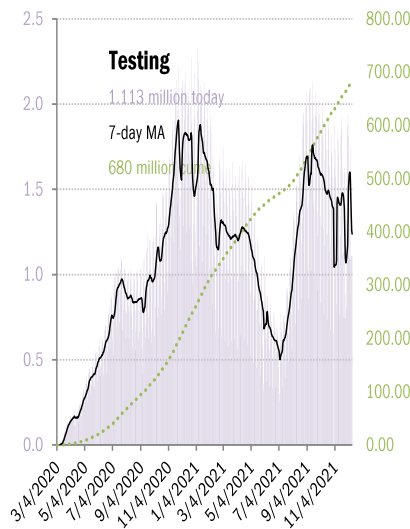
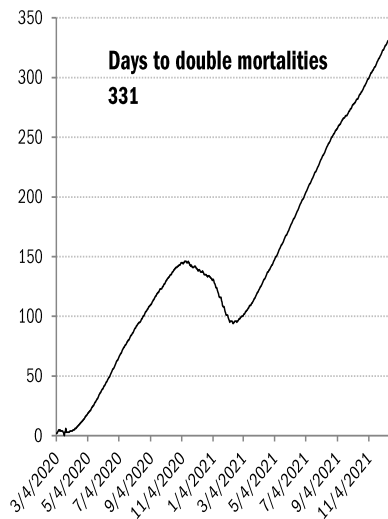
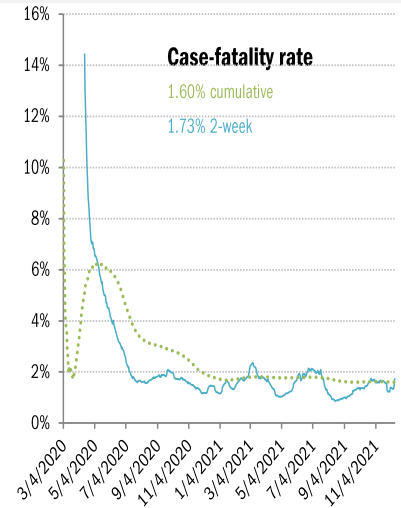
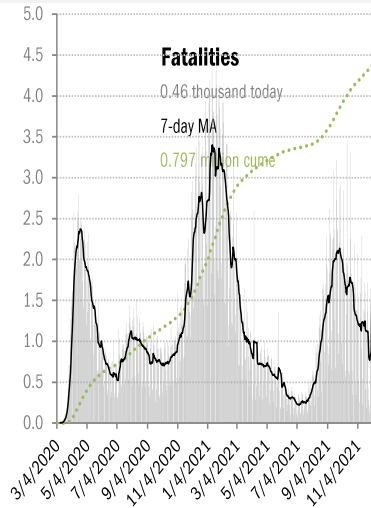
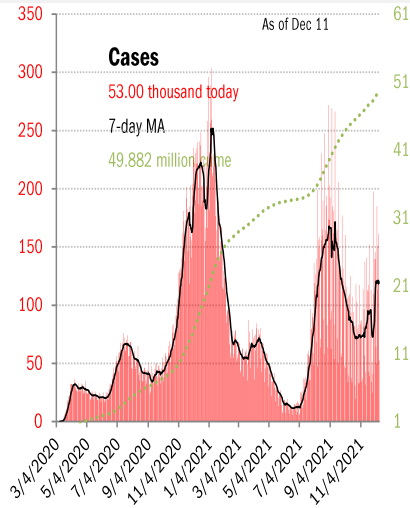
The demographics of US vaccination



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

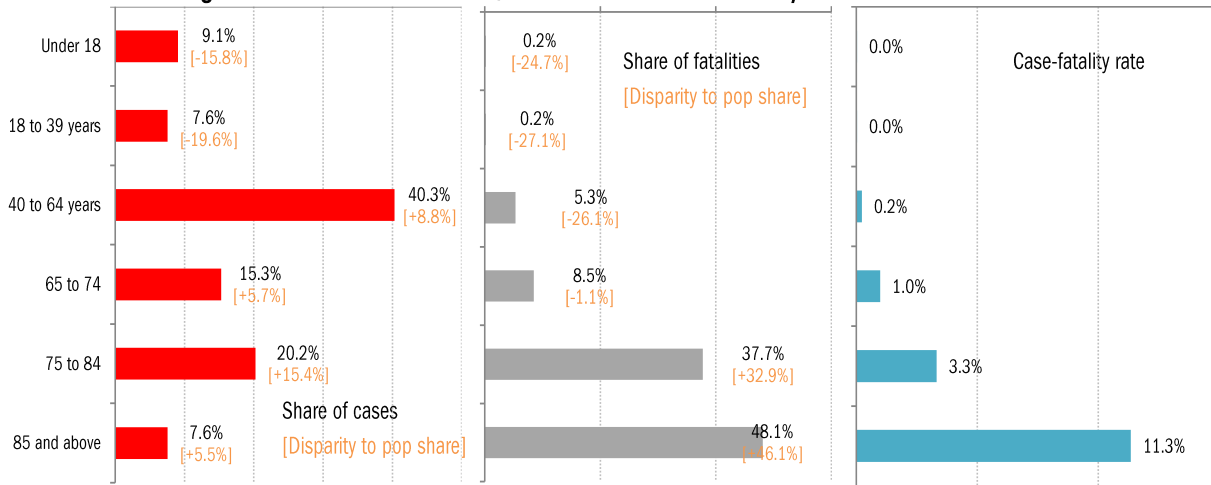
US deep-dive

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

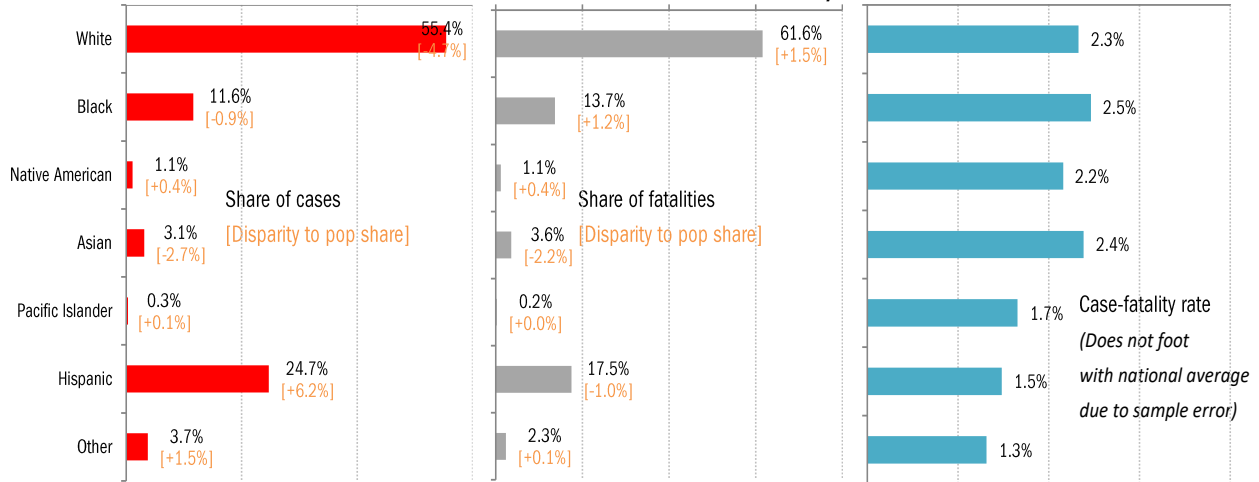


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

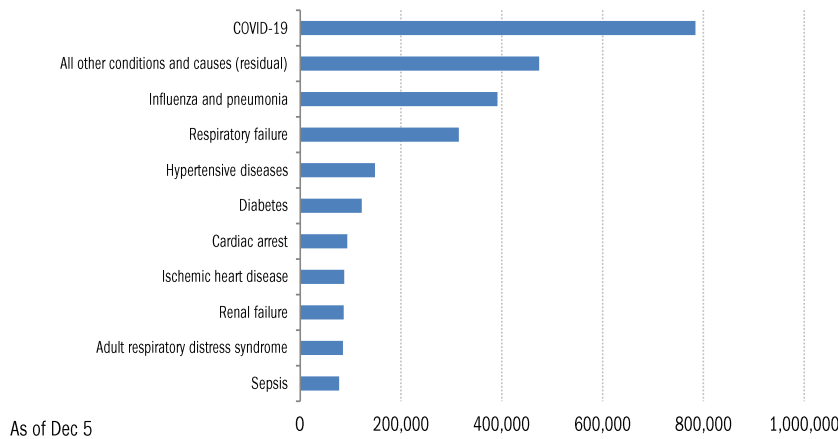


Racial distribution of US cases, fatalities and case-fatality rates



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

[Austria ends most lockdown restrictions for vaccinated; tens of thousands protest](#)

Times of Israel
December 12, 2021

[C.D.C. vaccination data may overestimate first doses and underestimate boosters.](#)

Maggie Astor
New York Times
December 11, 2021

[A former aide says Trump has ordered him to ignore House Democrats' subpoena over the U.S. pandemic response.](#)

Sheryl Gay Stolberg
New York Times
December 11, 2021

[Signs of the Omicron variant are being found in California wastewater systems.](#)

Todd Gregory
New York Times
December 11, 2021

[As Vaccines Trickle into Africa, Zambia's Challenges Highlight Other Obstacle](#)

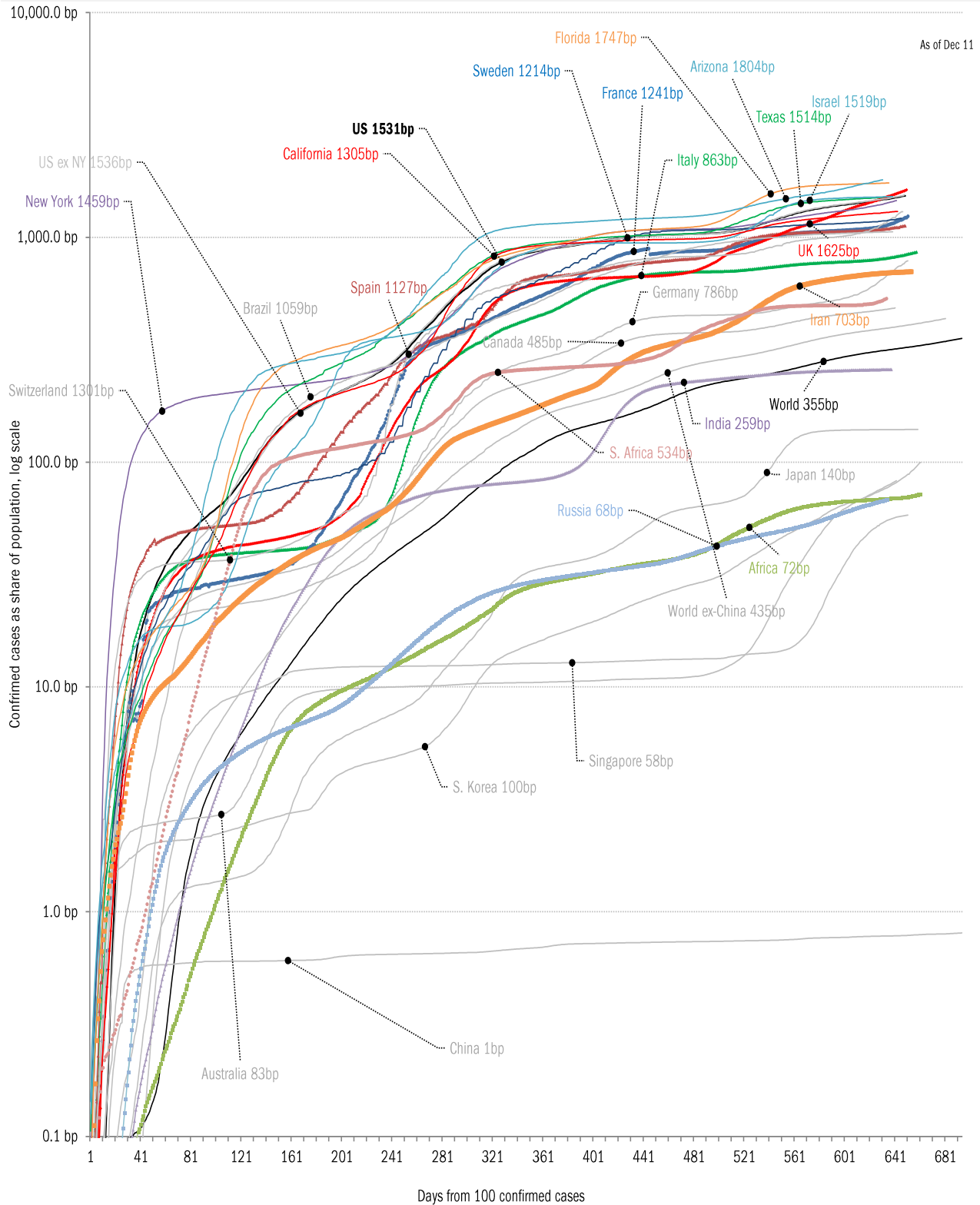
Stephanie Nolen
New York Times
December 11, 2021

Meme of the day



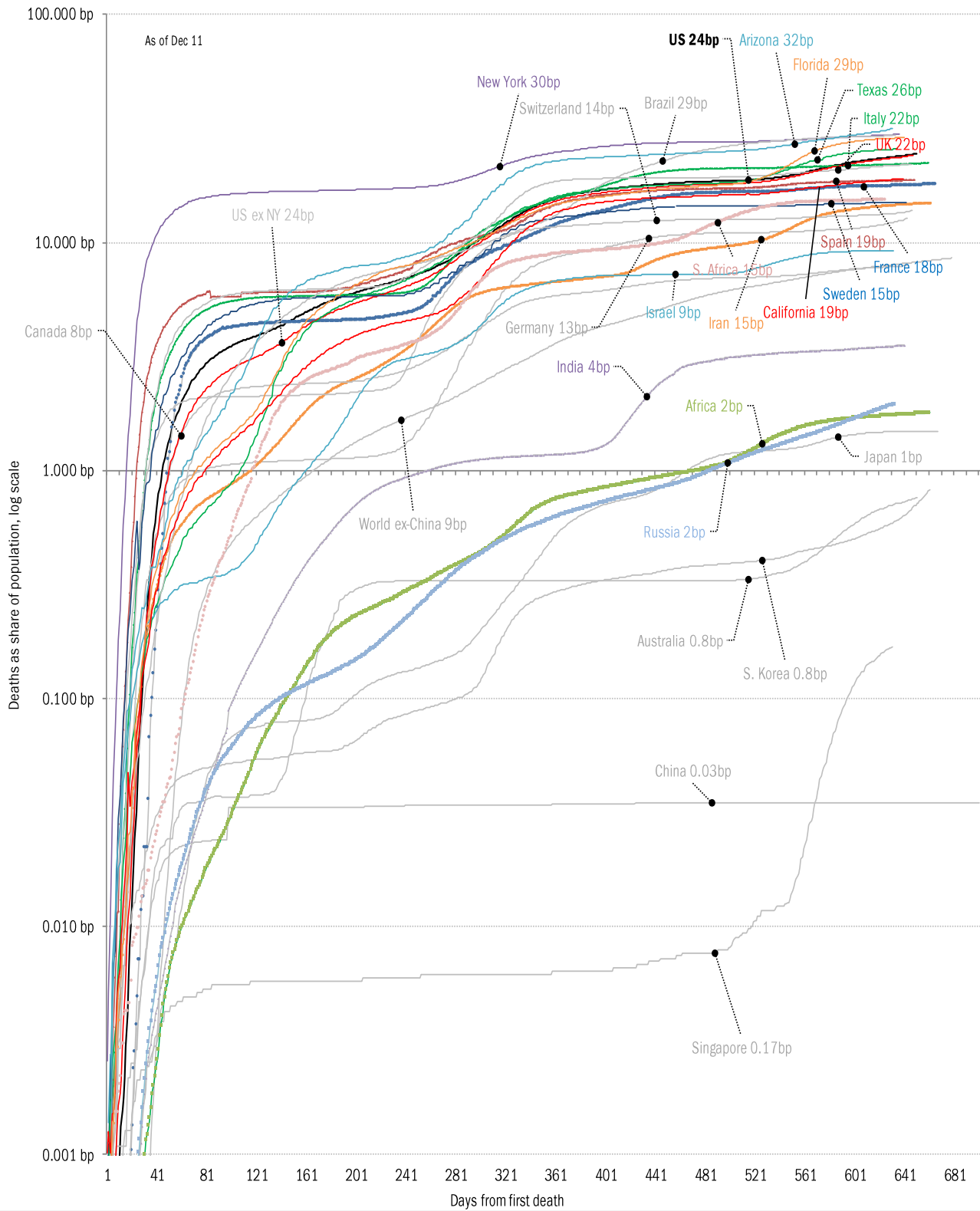
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

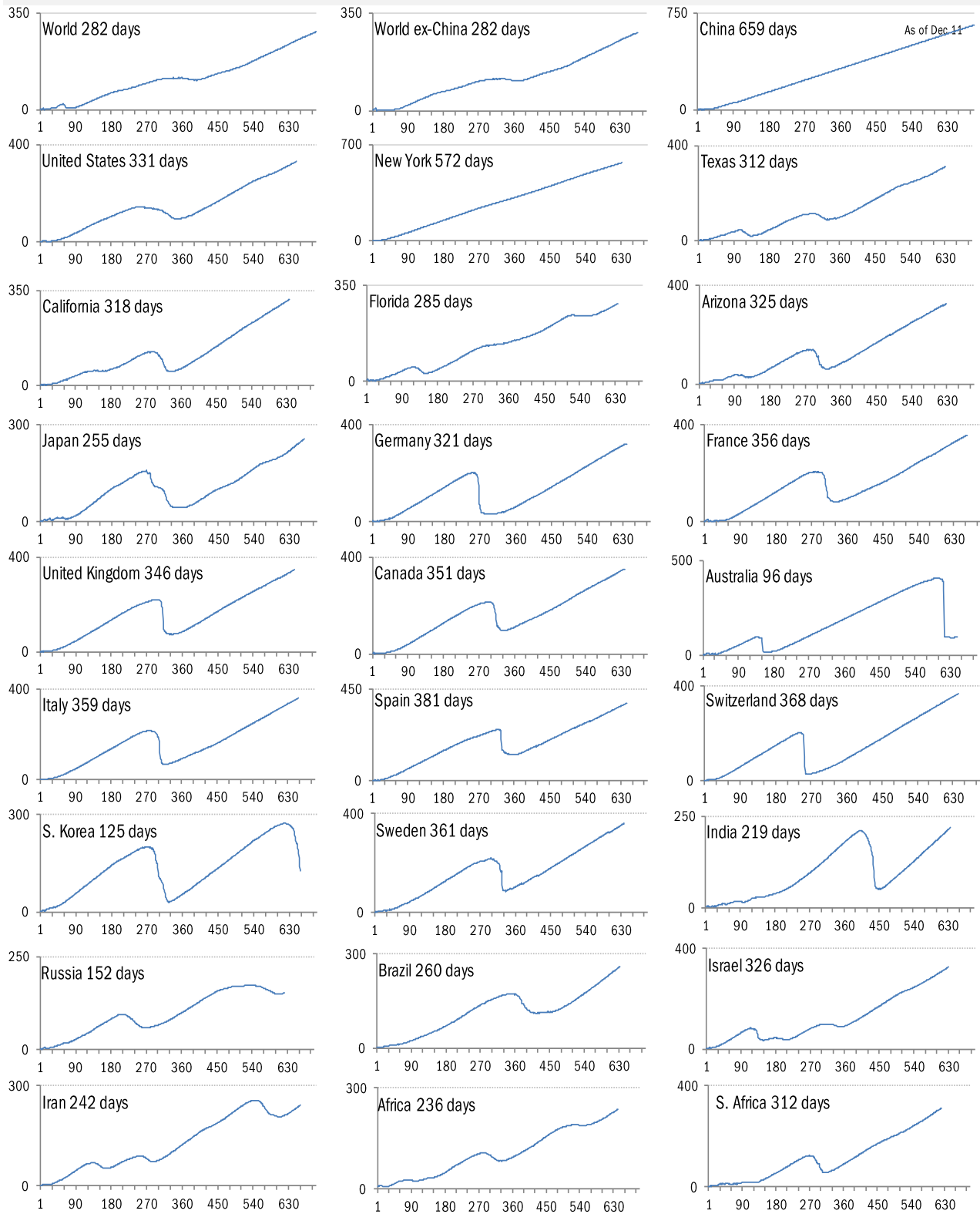


Source: [Johns Hopkins](#), TrendMacro calculations

"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

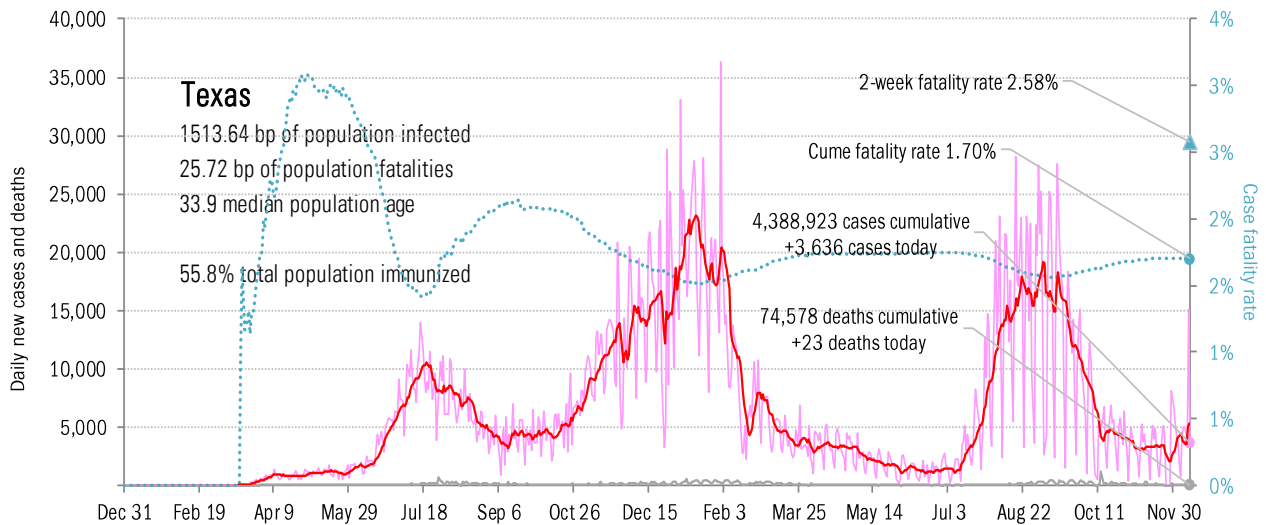
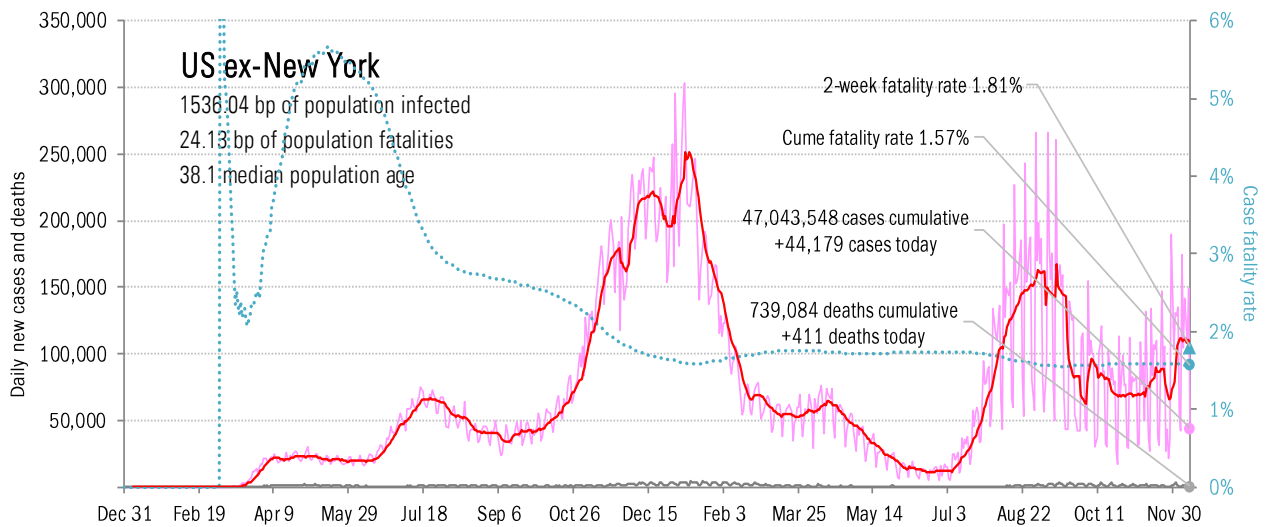
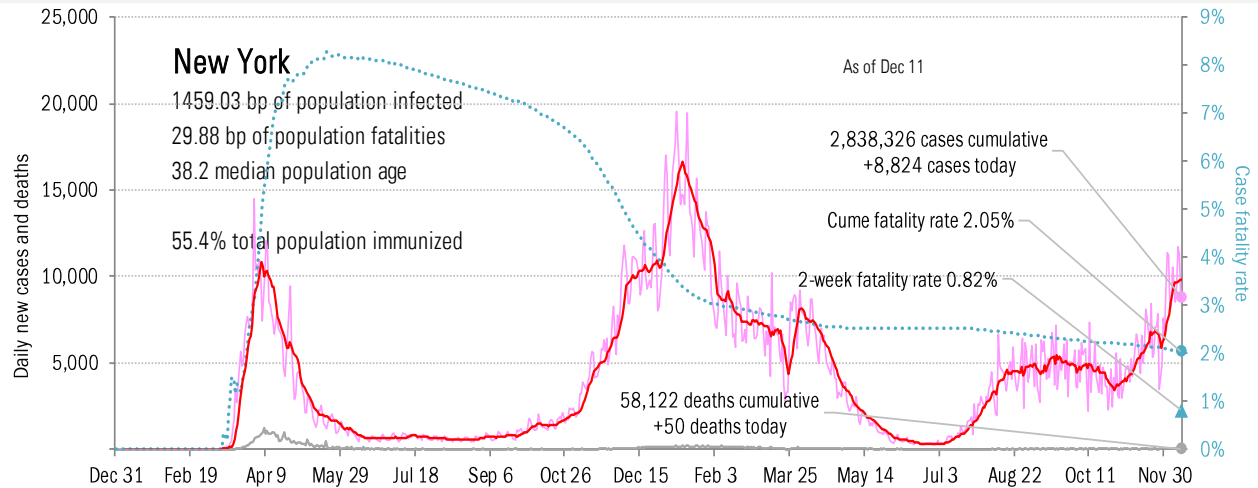
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

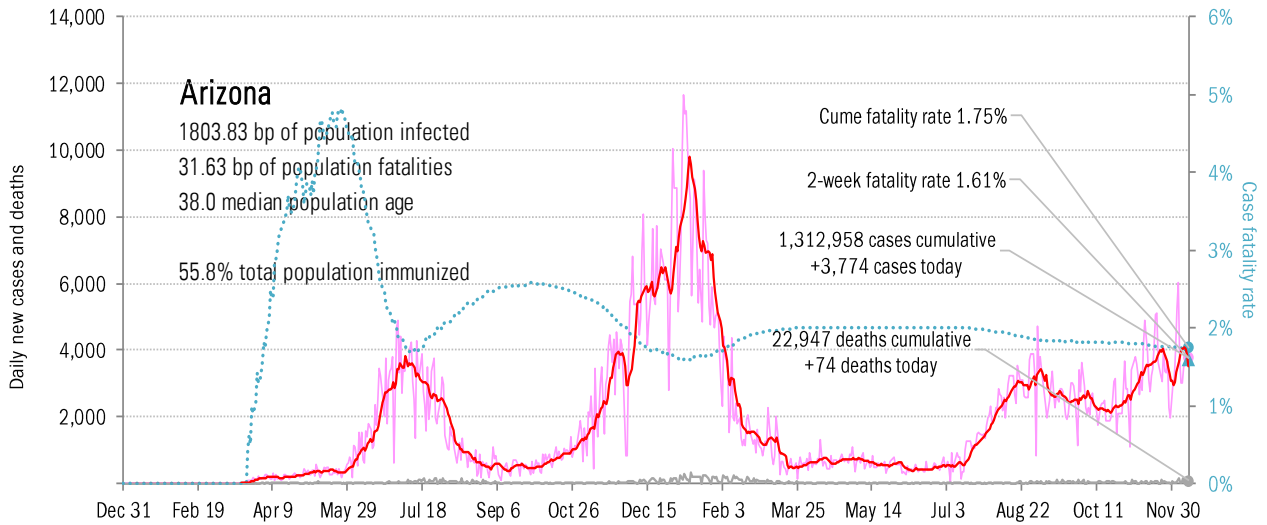
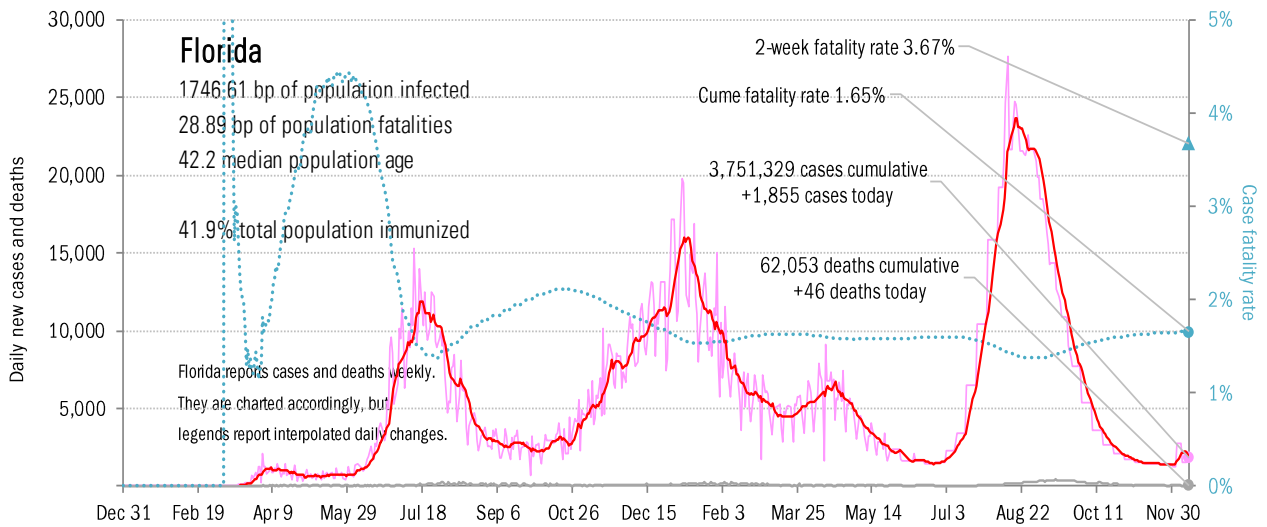
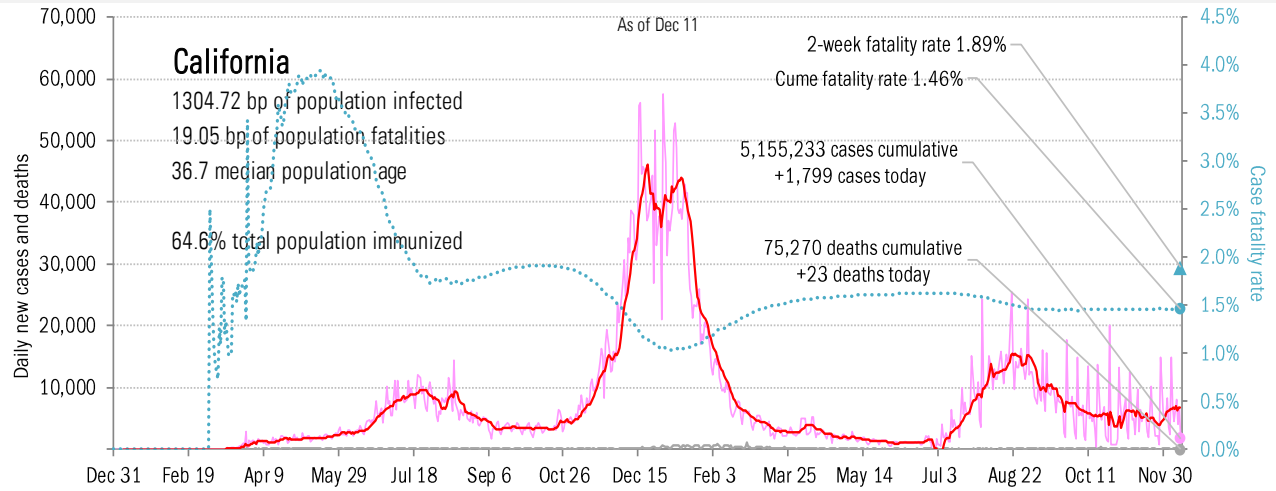
Cases: 7-day average and daily Deaths: Daily



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

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

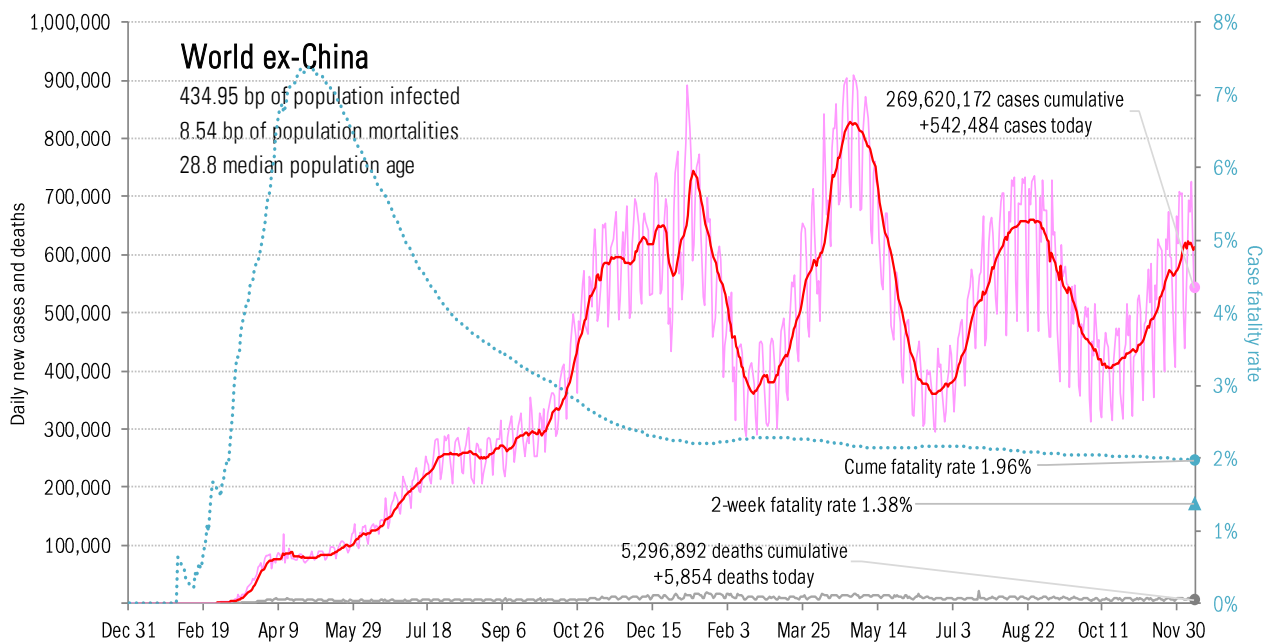
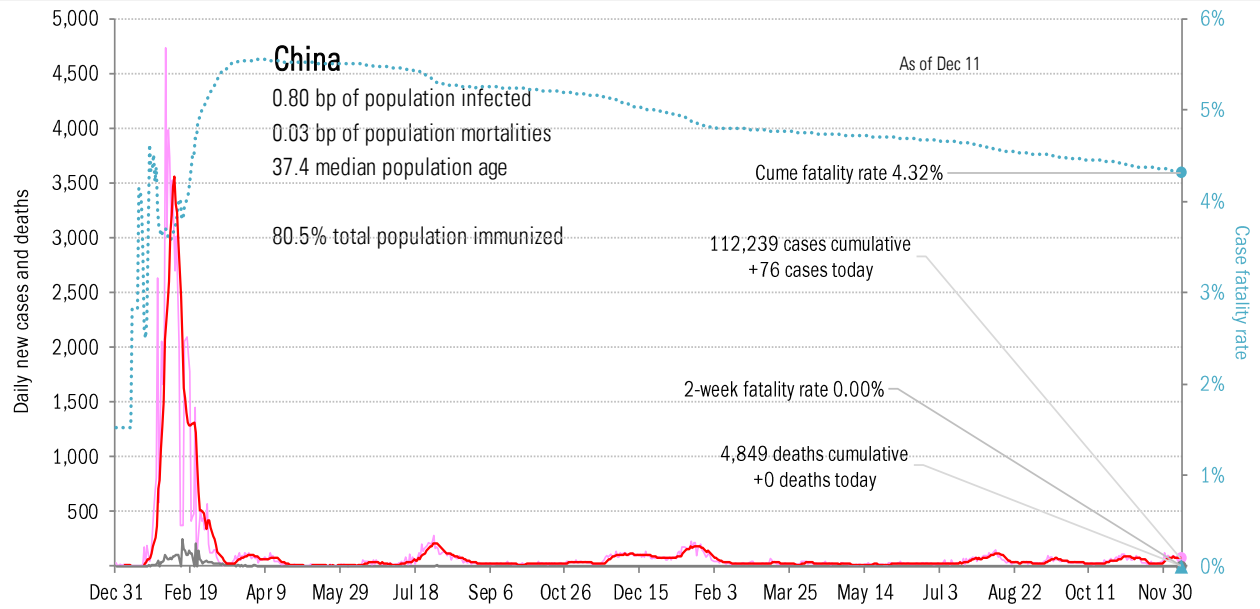
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

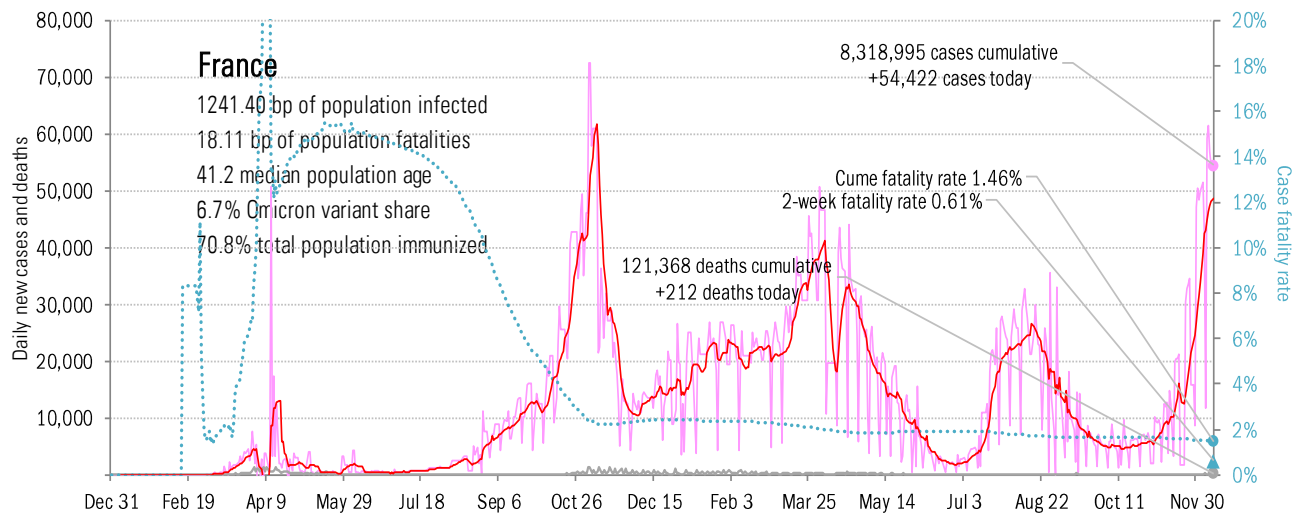
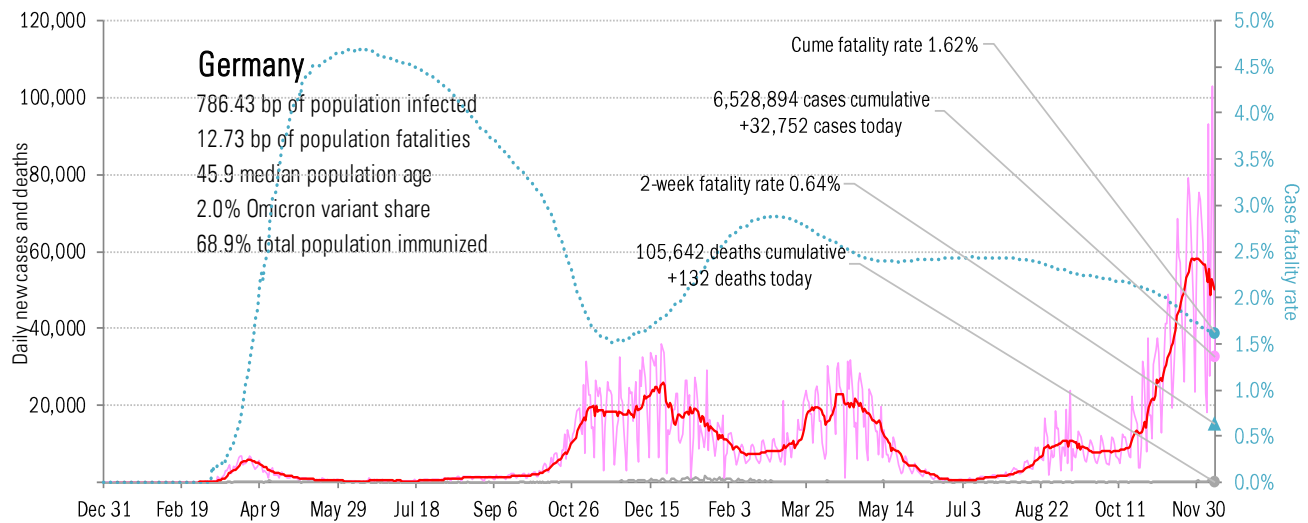
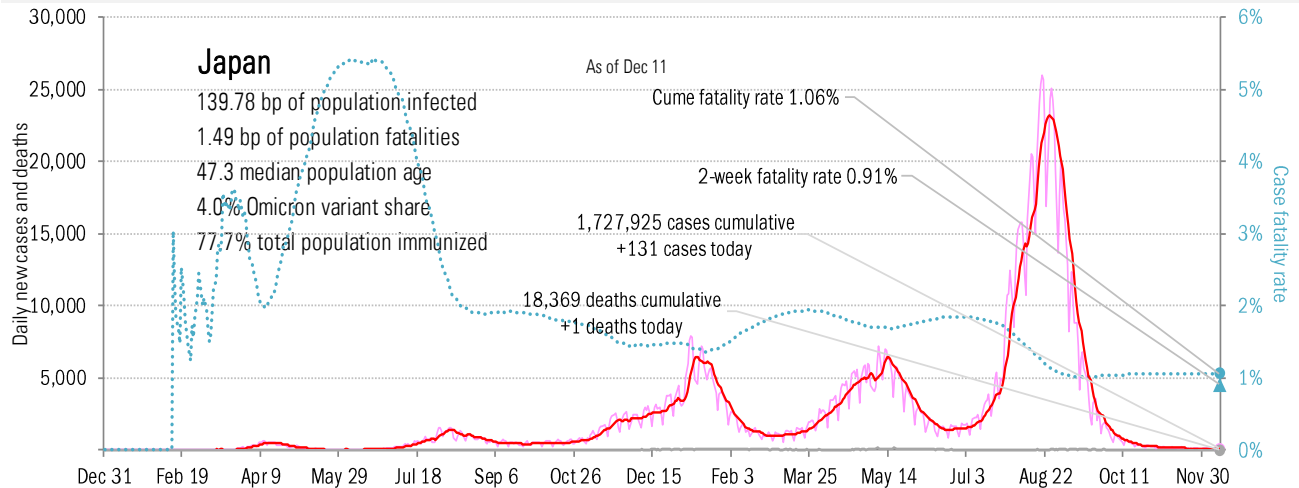
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

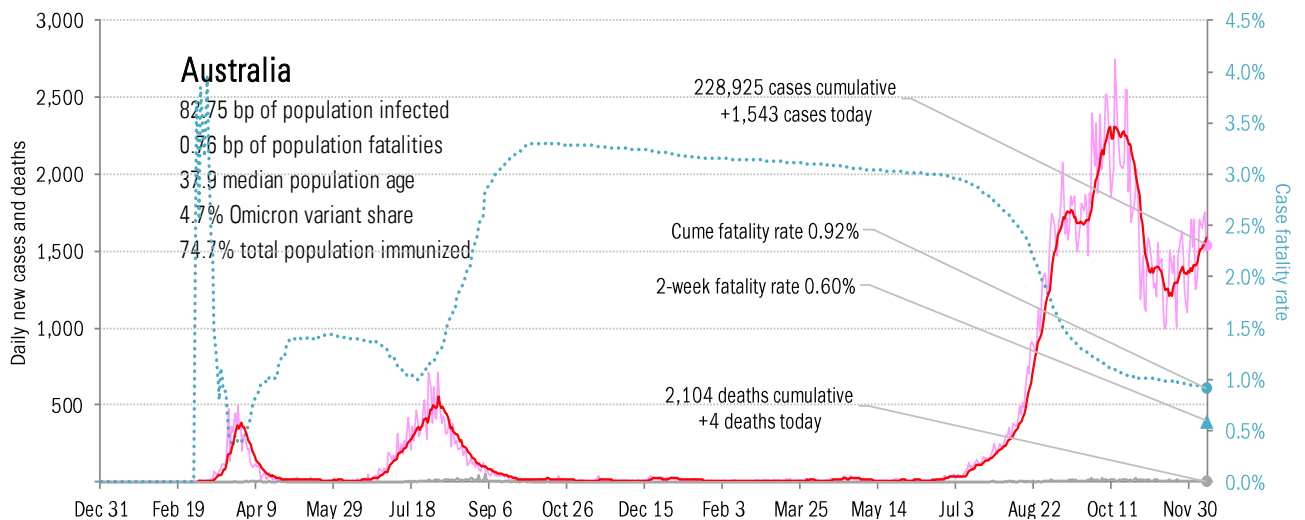
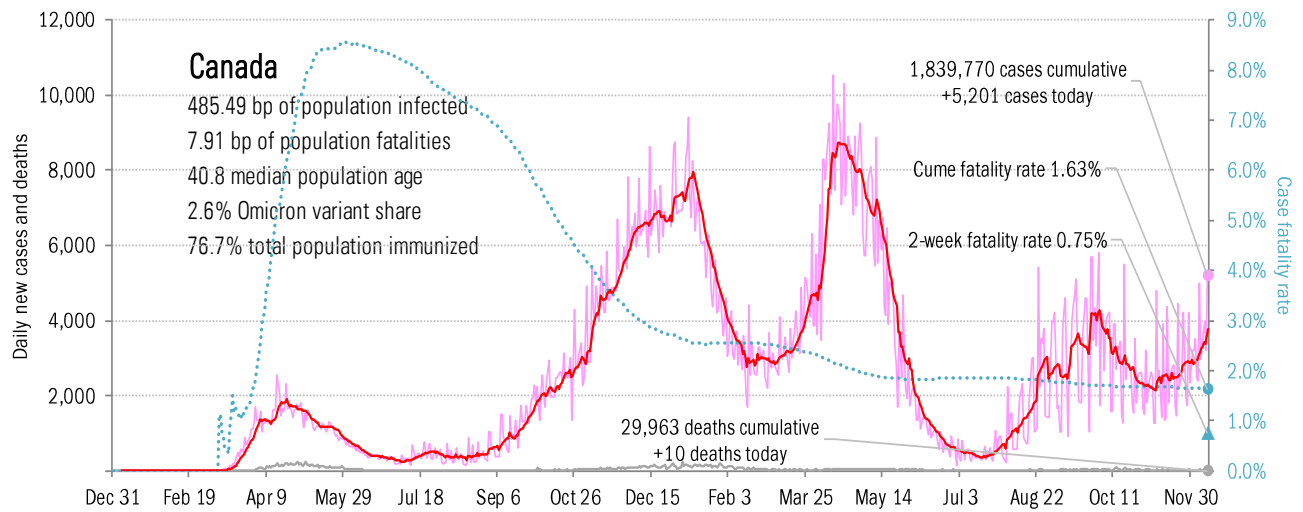
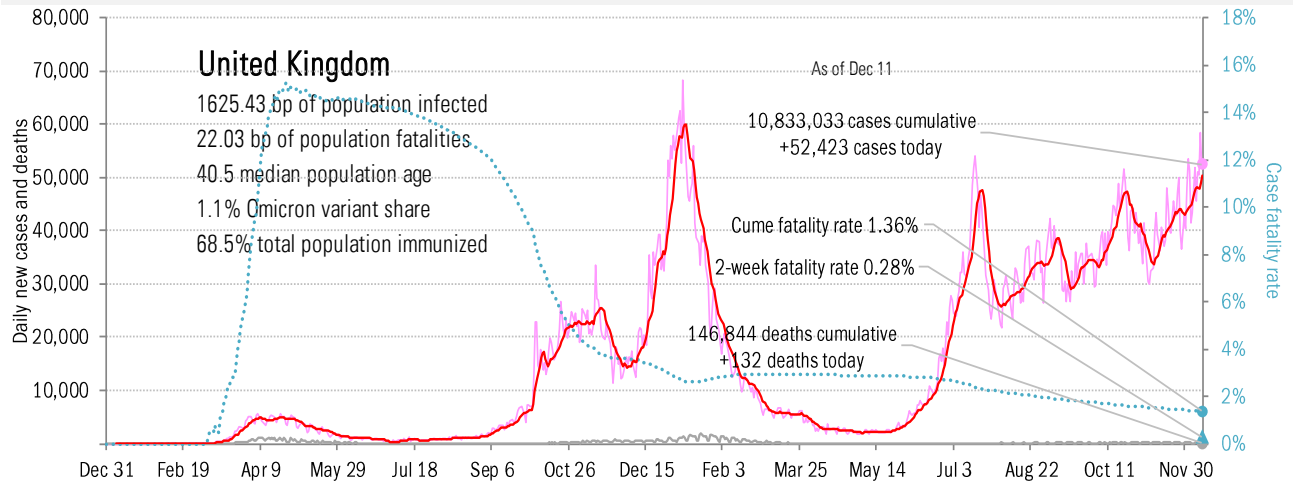
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

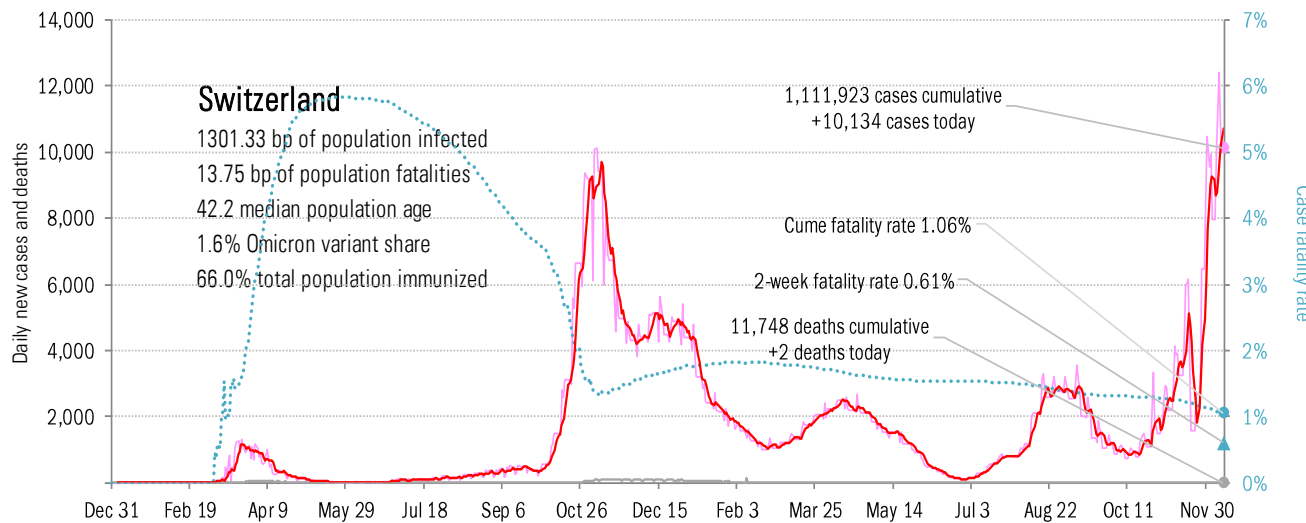
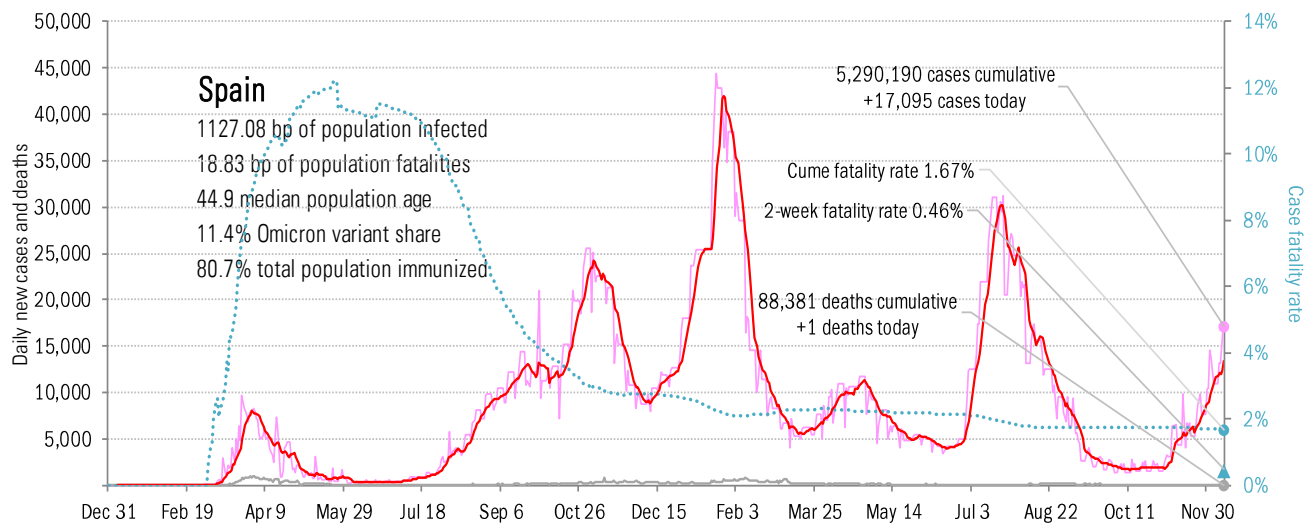
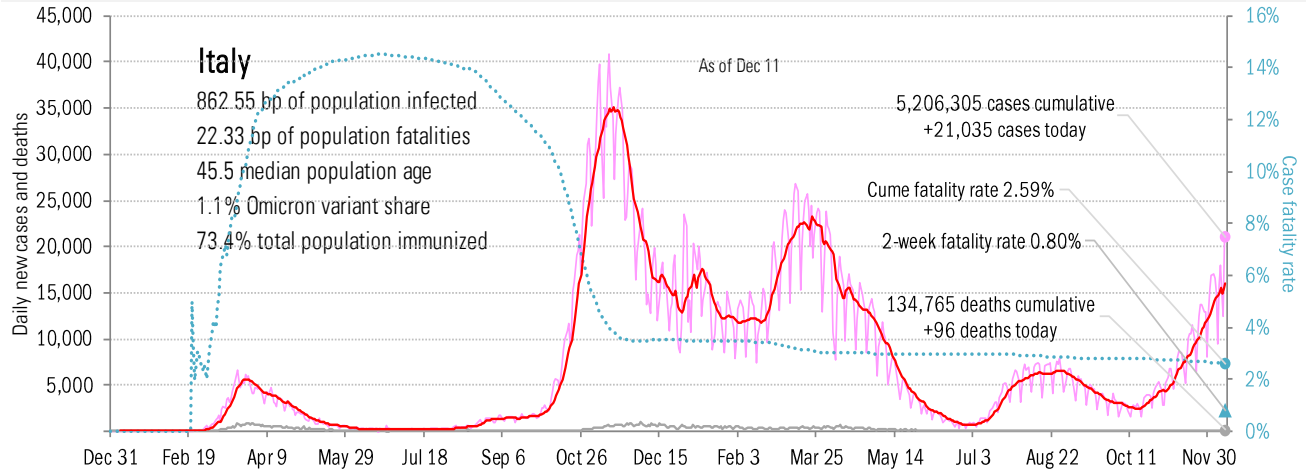
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

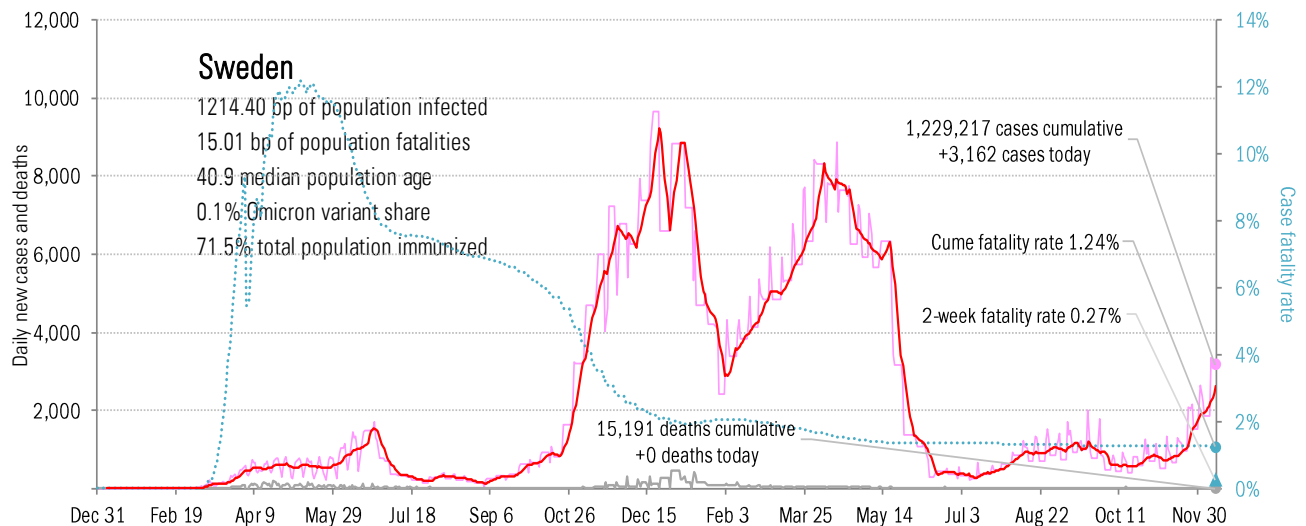
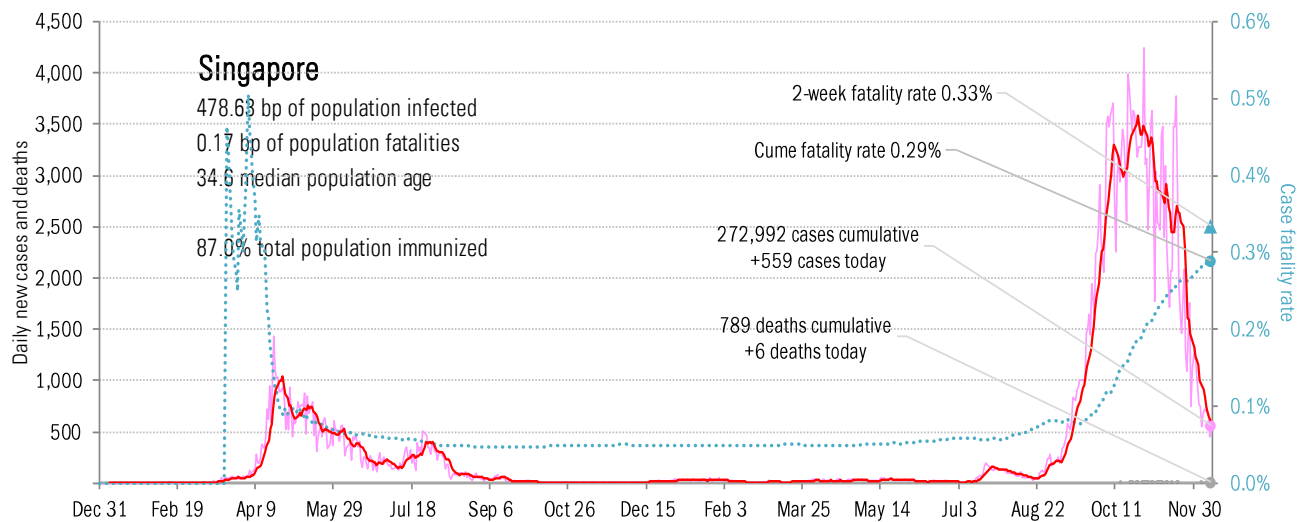
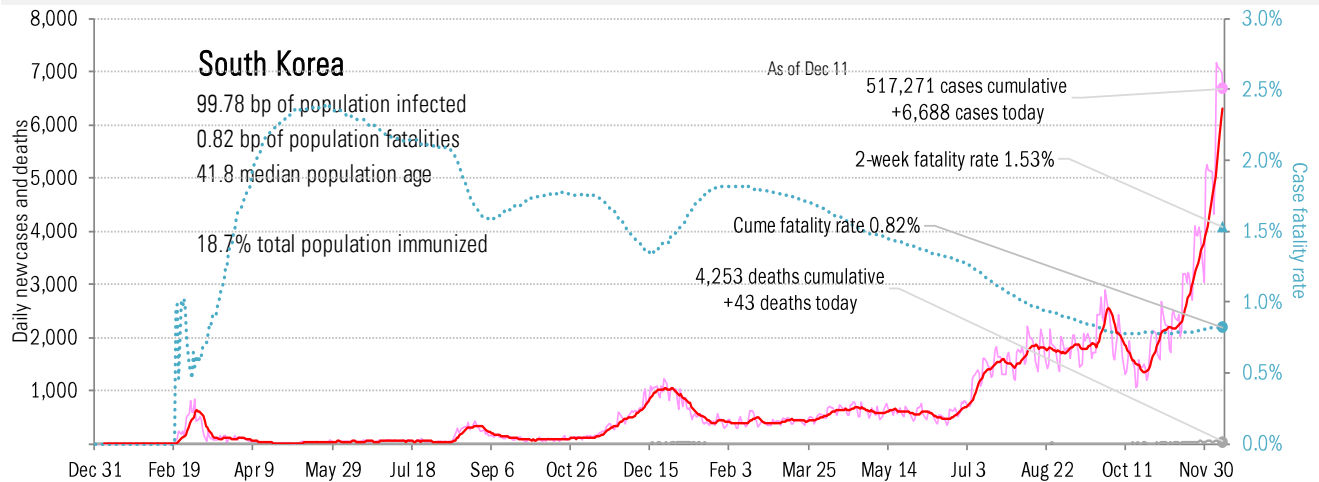
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

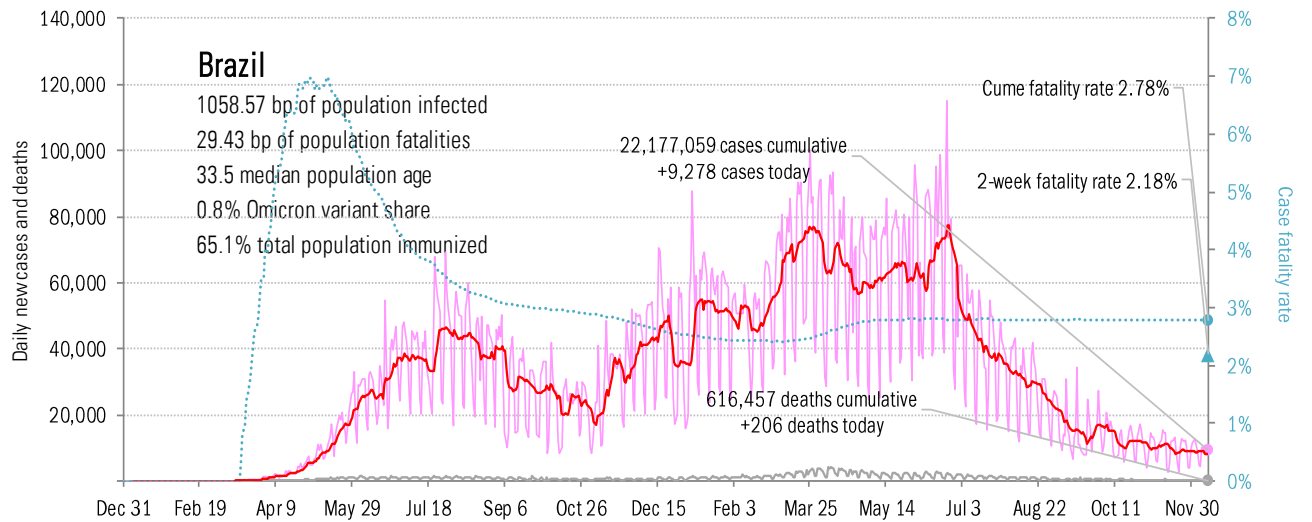
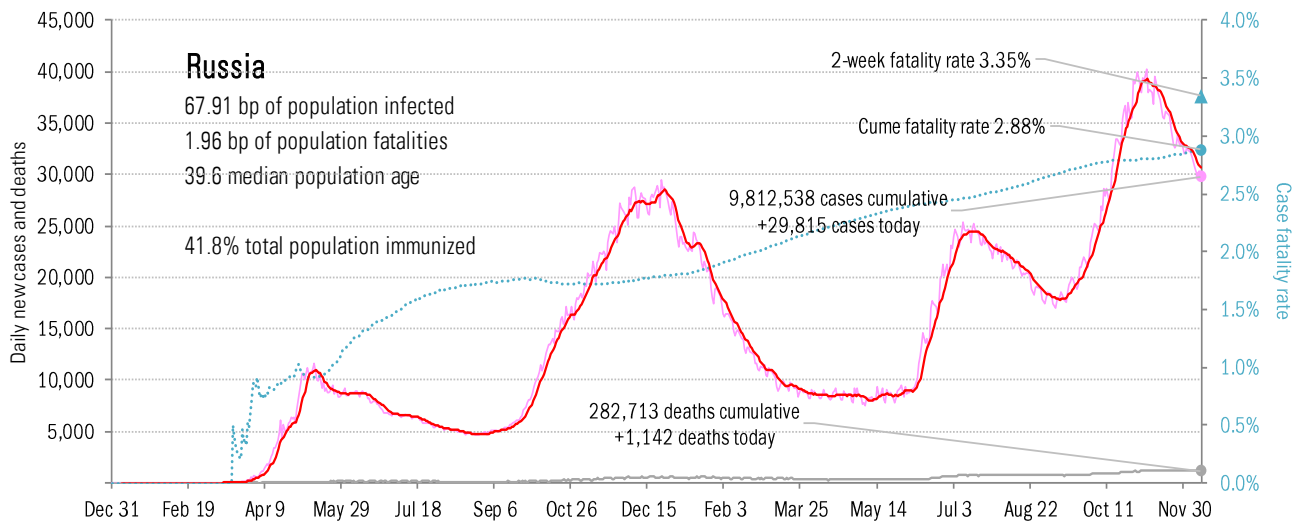
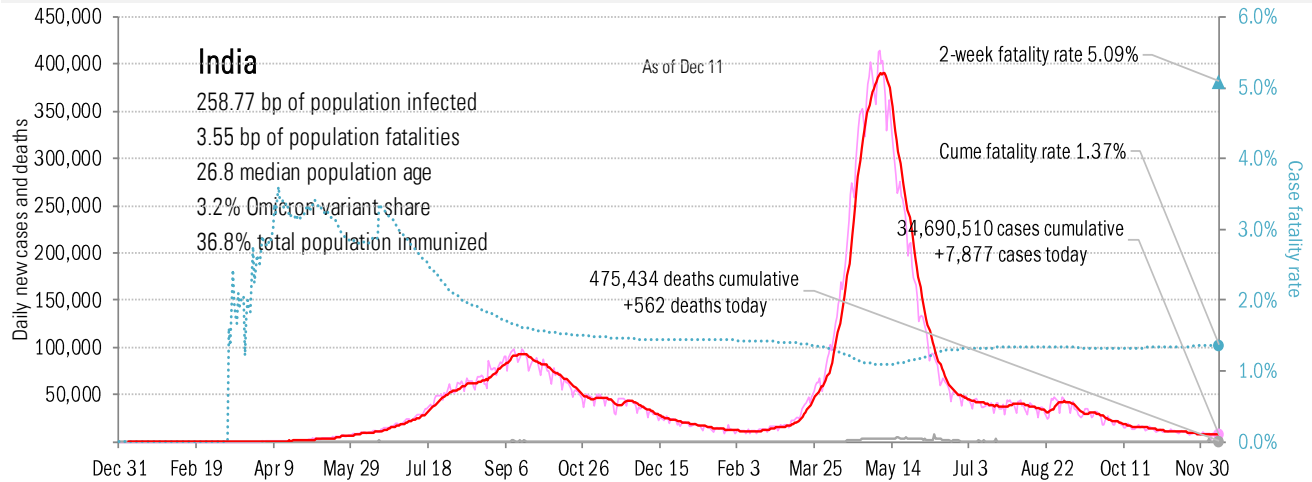
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

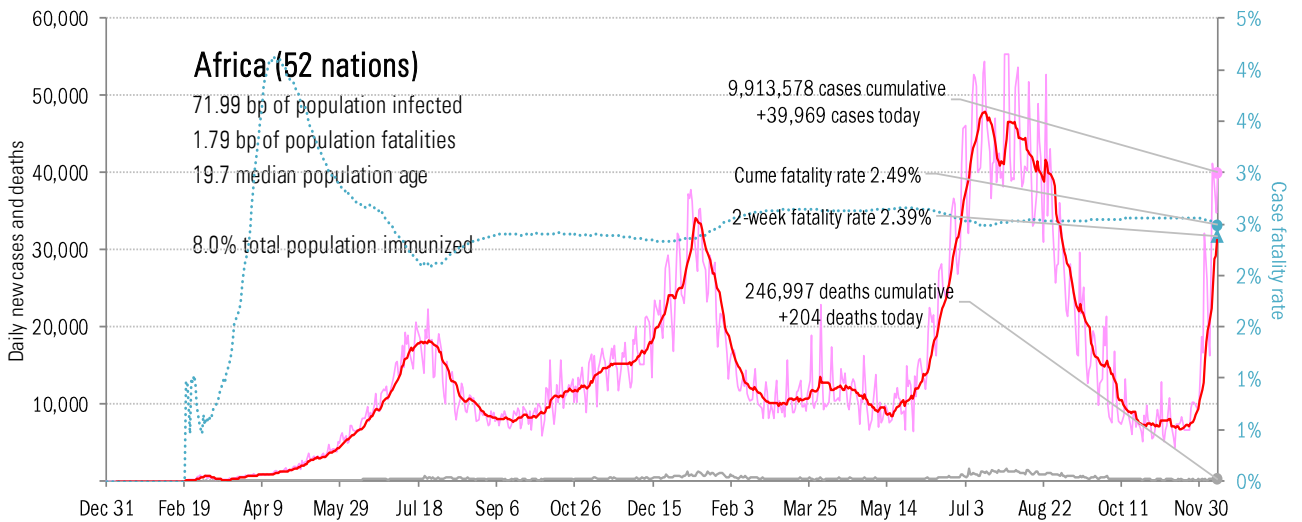
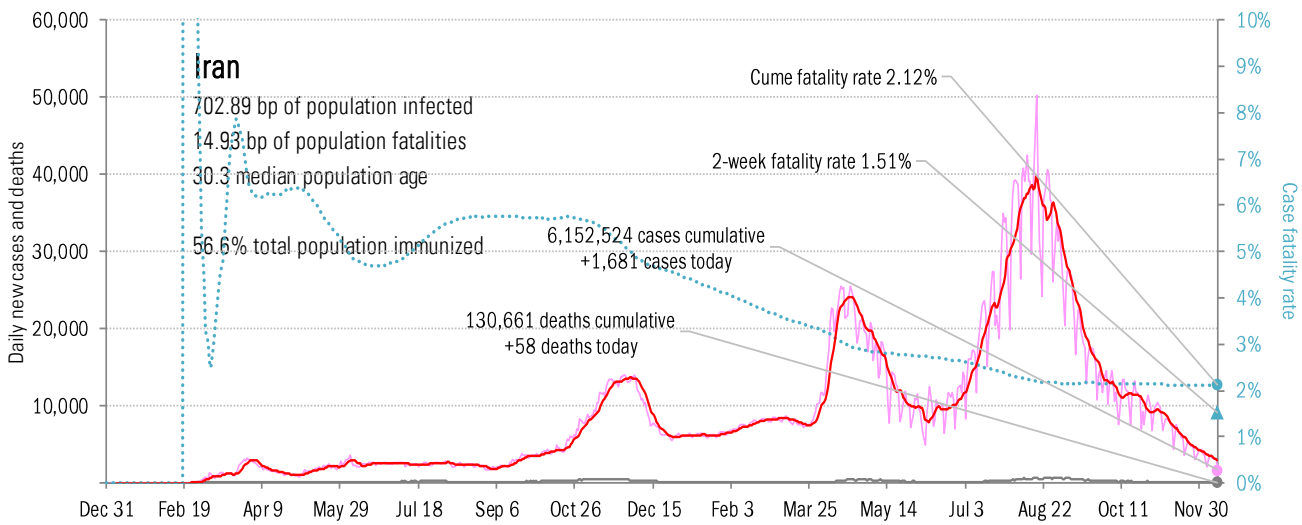
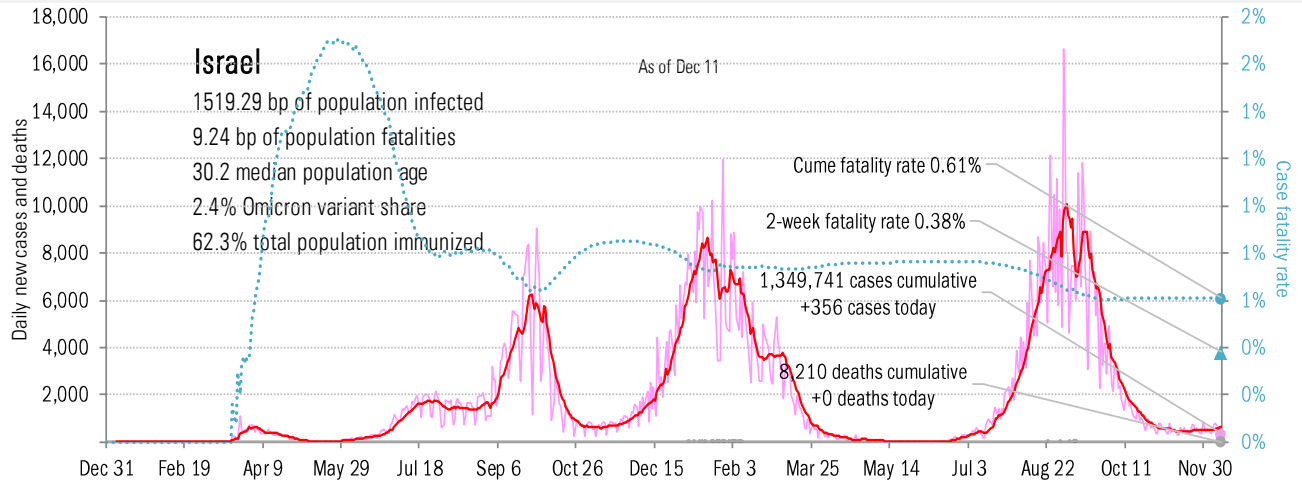
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

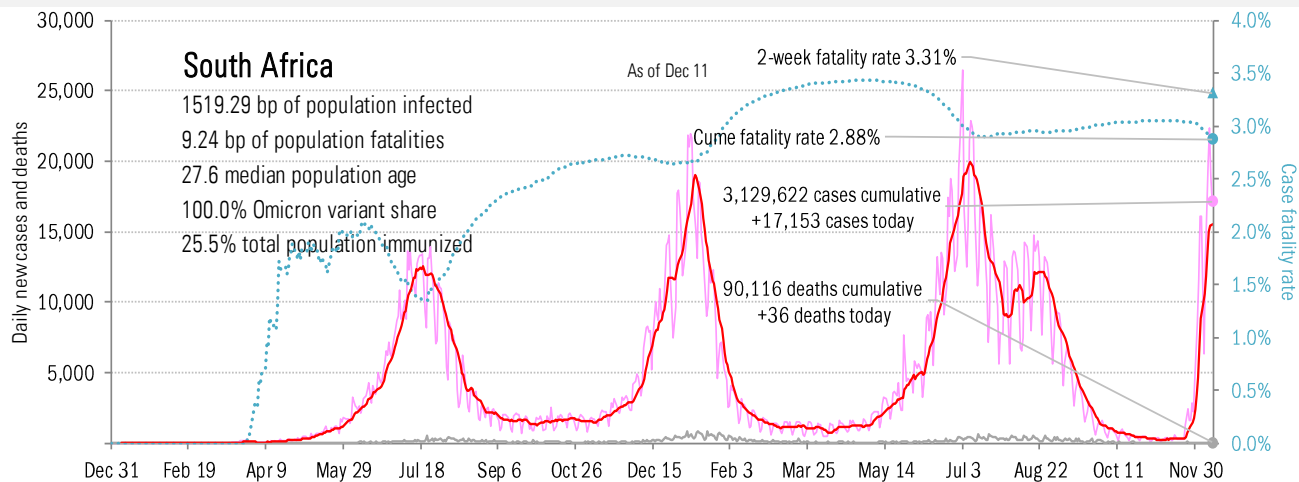
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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