

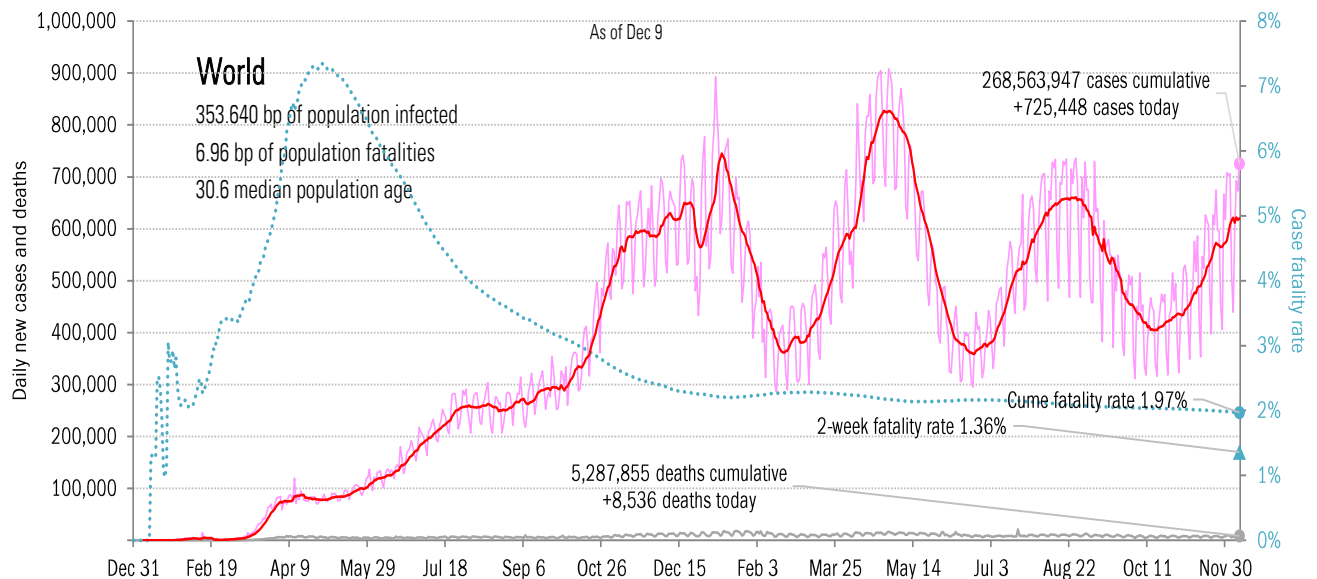
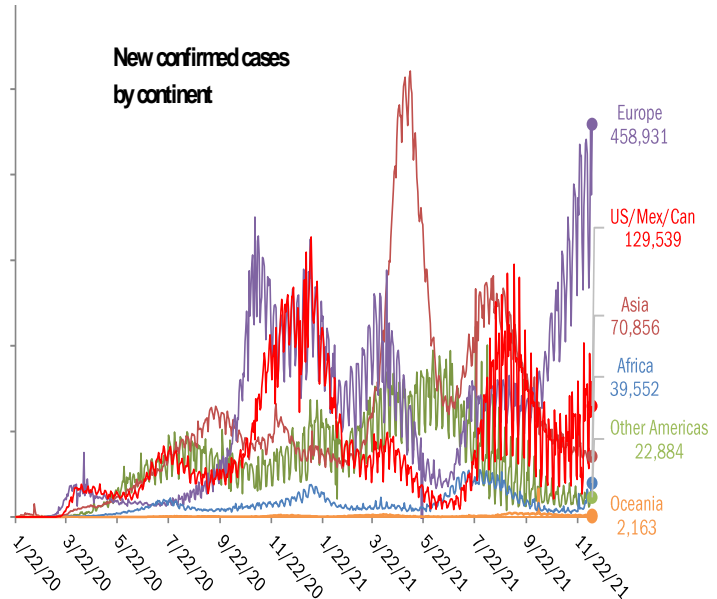
Data Insights: Covid-2019 Monitor

Friday, December 10, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+119,142	United States	+1,255
Germany	+103,018	Russia	+1,147
France	+56,886	Germany	+799
United Kingdom	+50,545	Mexico	+586
Russia	+29,701	Poland	+561
Poland	+27,459	Ukraine	+499
Spain	+26,412	India	+368
South Africa	+22,388	Vietnam	+256
Netherlands	+19,855	Hungary	+215
Turkey	+19,696	Brazil	+206
+475,102		+5,892	
World	+725,448	World	+8,536
Top ten	65%	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

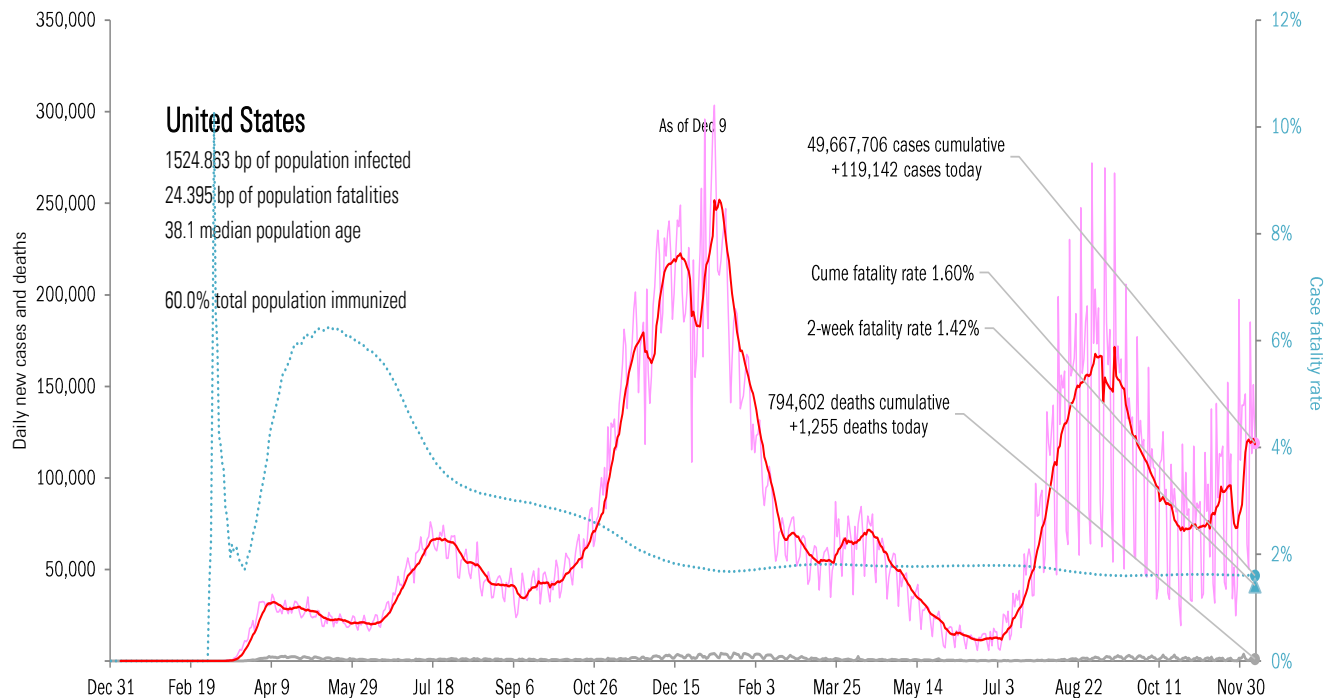
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
NY	+11,719		IA	+105		GA	+105		CA	5,146,771		CA	75,178		TX	388,071		RI	89%	KY	105%
IL	+9,301		CA	+98		CH	+86		TX	4,370,210		TX	74,452		FL	325,223		MA	89%	RI	91%
CH	+8,500		TX	+82		CA	+78		FL	3,747,619		FL	61,960		CA	324,014		PA	87%	NM	91%
PA	+6,918		AZ	+75		MA	+75		NY	2,818,175		NY	57,992		NY	176,845		MI	86%	MA	91%
MA	+6,034		PA	+73		NJ	+73		IL	1,877,213		PA	34,271		GA	164,434		GA	85%	NE	90%
NJ	+5,617		WI	+70		KY	+71		PA	1,806,671		GA	30,798		CH	140,543		MD	85%	AL	89%
IN	+5,482		KY	+61		NY	+68		CH	1,761,008		IL	29,199		PA	131,670		ND	85%	VT	89%
WI	+5,112		CO	+59		MO	+66		GA	1,676,787		NJ	28,526		KY	116,099		WA	85%	NH	88%
NC	+4,153		NY	+58		NC	+63		NC	1,562,663		CH	27,011		IL	114,245		WV	84%	CK	88%
CA	+3,984		IL	+54		TX	+55		MI	1,553,790		MI	26,648		MI	108,197		MO	84%	TX	88%
+66,820			+735			+740			26,320,907			446,035			1,989,341						
All states	+119,142		+1,255			+1074			All states	49,667,706		794,602			3,583,869			All states	70%		67%
Top ten	56%		59%			69%			Top ten	53%		56%			56%			Median	79%		81%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-18,643	MI	-409	IL	-70	DE	+50 bp
WI	-9,389	FL	-64	AR	-28	MP	+30 bp
KS	-4,389	WI	-56	IA	-28	UT	+30 bp
CA	-3,948	IN	-35	CO	-27	AR	+20 bp
FL	-3,515	MN	-35	IN	-26	DC	+20 bp

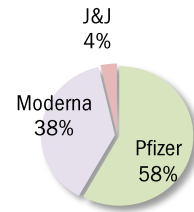


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	490,260,860	+1.739 million	US	60.0%	71.5%
Boosters	50,730,561	+1.021 million	UK	68.4%	75.0%
	One dose	% Pop	Immune	% pop	New immune today
Total population	243,368,493	73%	205,820,728	61%	+0.321 million
Age 12 to 17	14,827,651	62%	12,438,129	52%	+0.016 million
Age 18 to 64	164,910,102	81%	141,246,938	69%	+0.123 million
Age 65 and over	57,521,791	100%	49,289,047	90%	+0.022 million

France	70.7%	77.2%
Spain	80.6%	82.3%
Germany	68.7%	71.7%
Italy	73.3%	78.8%
Australia	74.4%	78.3%
Israel	62.3%	68.8%
Canada	76.6%	81.7%
Japan	77.7%	79.4%
Africa	7.9%	12.2%
India	35.8%	58.1%
Brazil	64.9%	77.1%
China	77.9%	84.8%



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

Every American >18 immunized in **72 days** by Feb 18, 2022
 73.6% of population >18 immunized
 17.5% previously tested positive
91.1% vs 60% adult herd immunity

Global data differs due to sources, timing

AK
63.8%
55.3%

WI
66.7%
60.5%

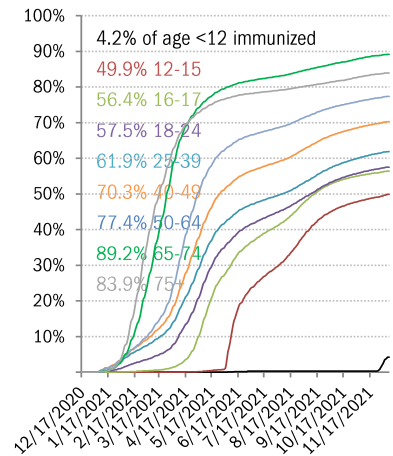
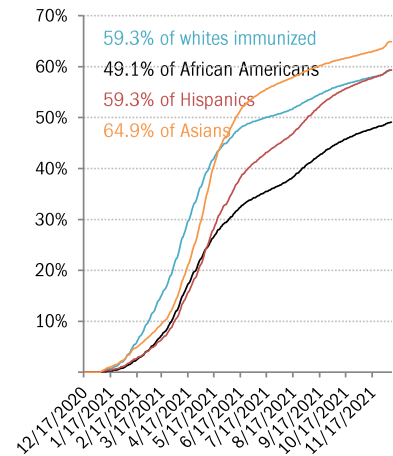
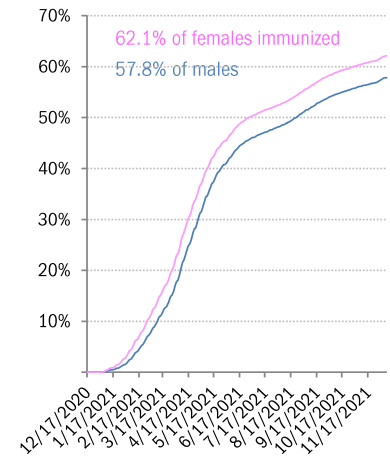
As of Dec 9

ME
83.2%
73.7%

WA: 73.8% / 66.3%	ID: 51.3% / 45.6%	MT: 60.7% / 52.7%	ND: 58.9% / 49.6%	MN: 69.9% / 63.7%	IL: 70.1% / 62.7%	MI: 62.0% / 55.5%	NY: 79.9% / 69.5%	VT: 86.7% / 74.5%	NH: 90.4% / 65.3%	
OR: 72.3% / 65.0%	NV: 67.4% / 55.2%	WY: 54.6% / 46.4%	SD: 68.5% / 55.6%	IA: 63.4% / 57.7%	IN: 56.5% / 51.1%	OH: 59.2% / 54.0%	PA: 83.1% / 59.6%	NJ: 80.6% / 68.9%	MA: 87.3% / 72.6%	
CA: 80.1% / 64.4%	UT: 65.6% / 56.7%	CO: 72.5% / 64.5%	NE: 64.9% / 58.5%	MO: 60.8% / 51.8%	KY: 61.1% / 53.0%	WV: 86.7% / 69.0%	VA: 76.7% / 66.3%	MD: 78.1% / 68.8%	CT: 85.5% / 73.1%	RI: 85.0% / 74.3%
	AZ: 65.4% / 55.6%	NM: 78.0% / 64.6%	KS: 67.2% / 55.5%	AR: 61.4% / 50.1%	TN: 57.5% / 50.2%	NC: 72.2% / 55.2%	SC: 61.2% / 52.1%	DC: 83.7% / 65.7%	DE: 74.4% / 62.6%	
		OK: 64.0% / 52.3%	LA: 56.2% / 49.4%	MS: 54.7% / 47.5%	AL: 57.3% / 46.7%	GA: 59.8% / 49.8%		FL: 72.5% / 62.0%	PR: 86.2% / 75.0%	
		TX: 65.0% / 55.6%								

HI
83.1%
62.0%

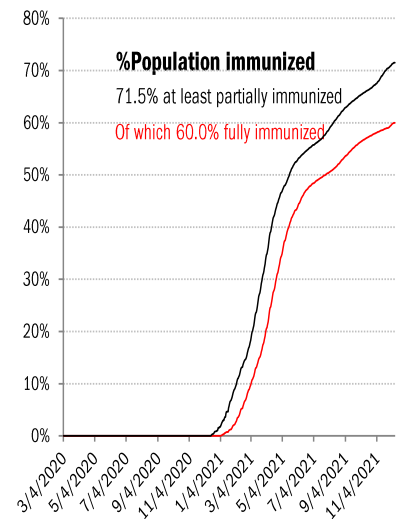
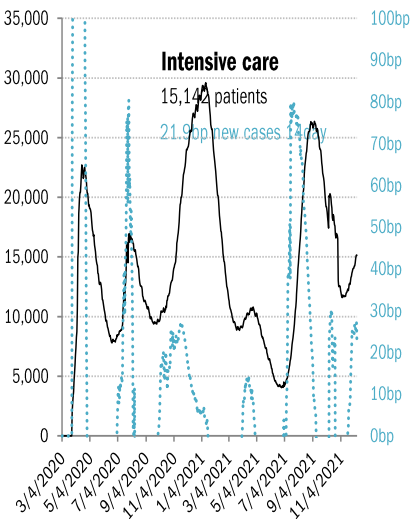
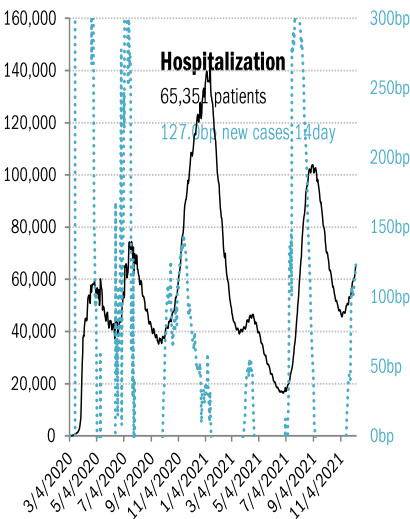
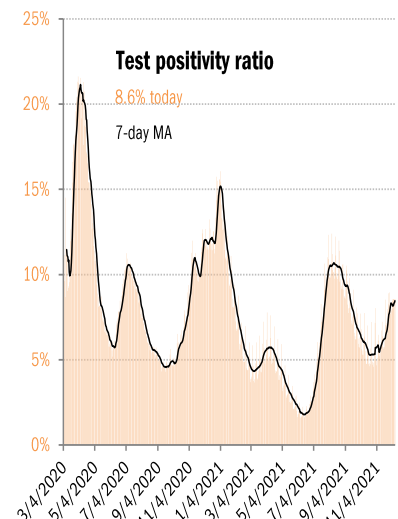
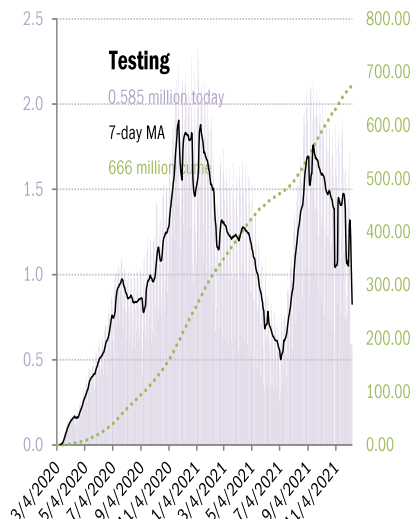
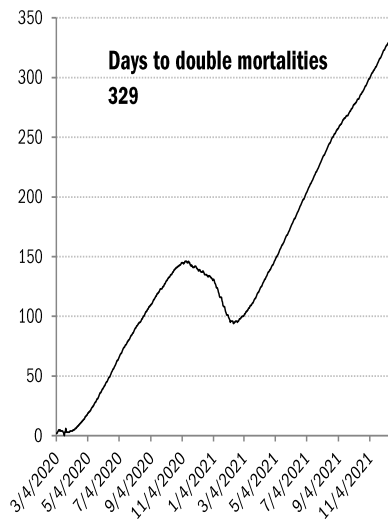
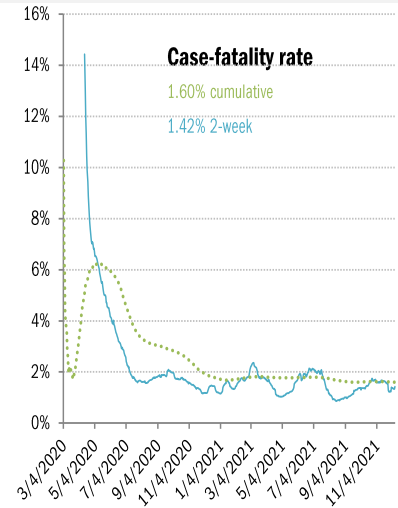
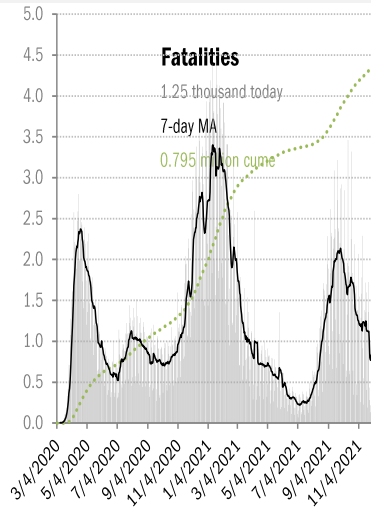
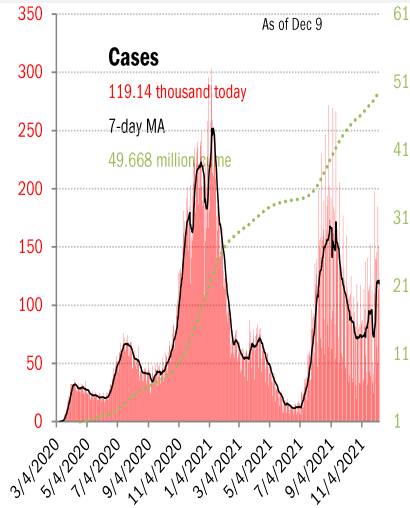
The demographics of US vaccination



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

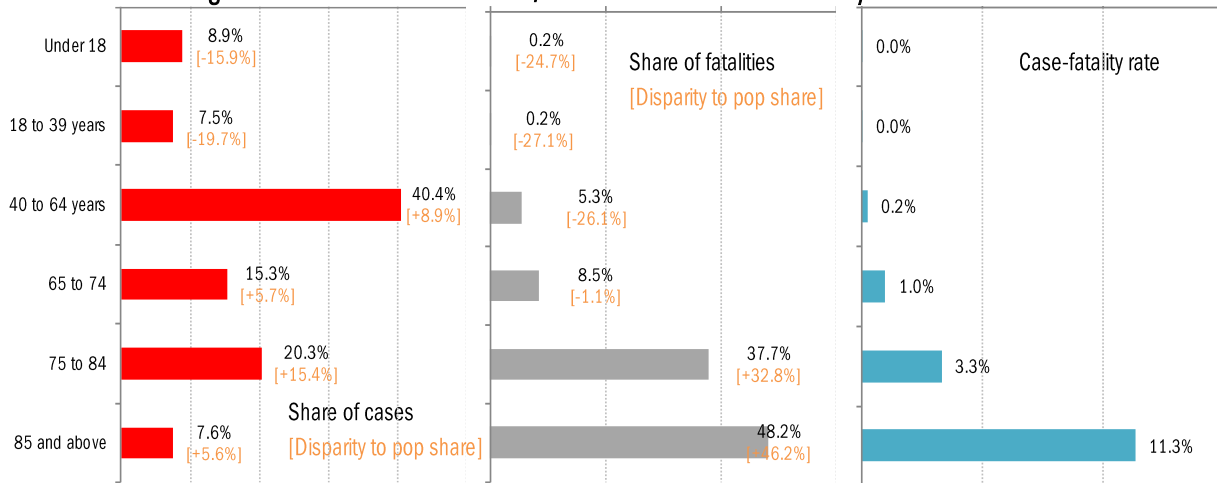
US deep-dive

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

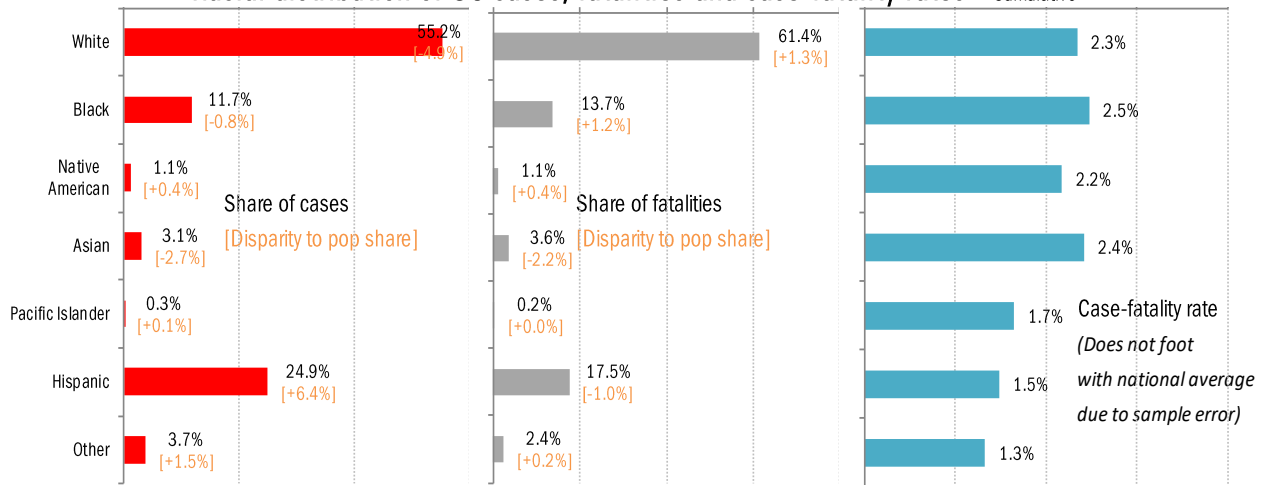


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

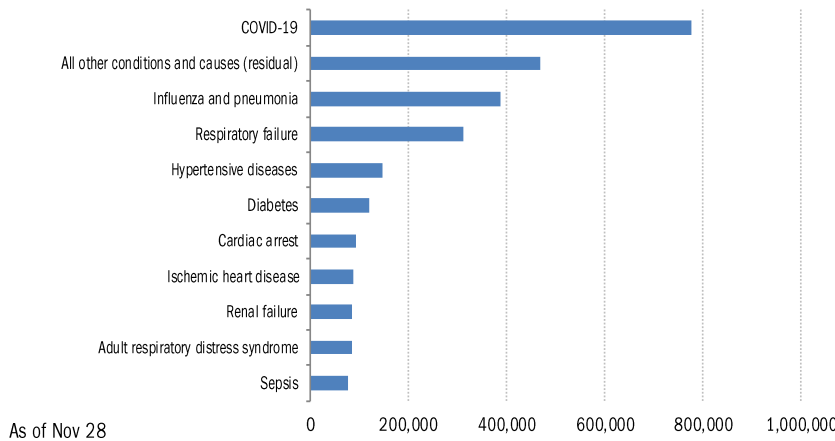


Racial distribution of US cases, fatalities and case-fatality rates



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's Federal Vaccine Mandate Wipeout](#)

Wall Street Journal

December 9, 2021

[Dems begin souring on vaccine mandates](#)

Tina Sfondeles, Adam Cancryn and Alex Thompson

Politico

December 7, 2021

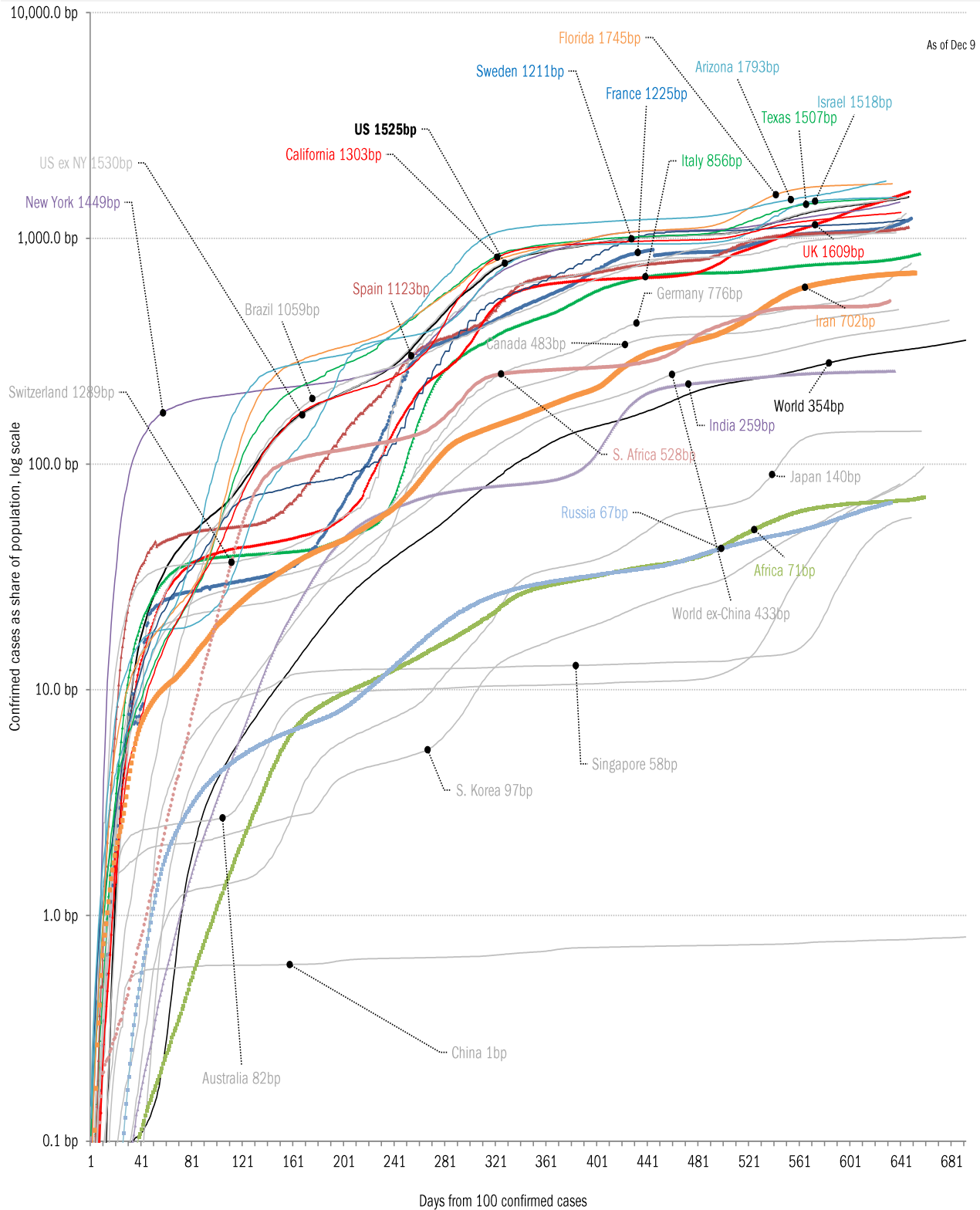
Meme of the day



**Study Finds Politicians Safe From
Myocarditis As They Do Not Have Hearts**

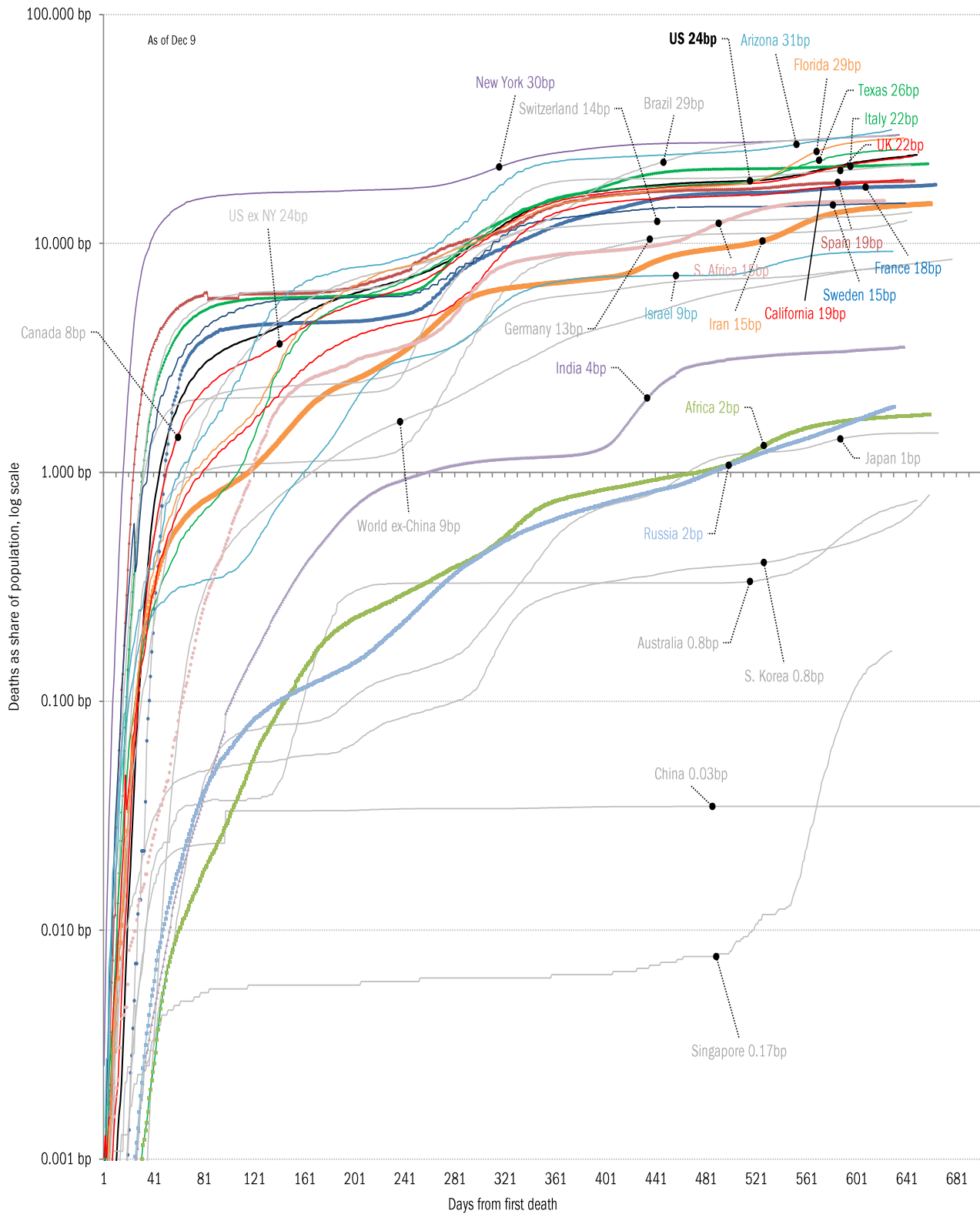
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

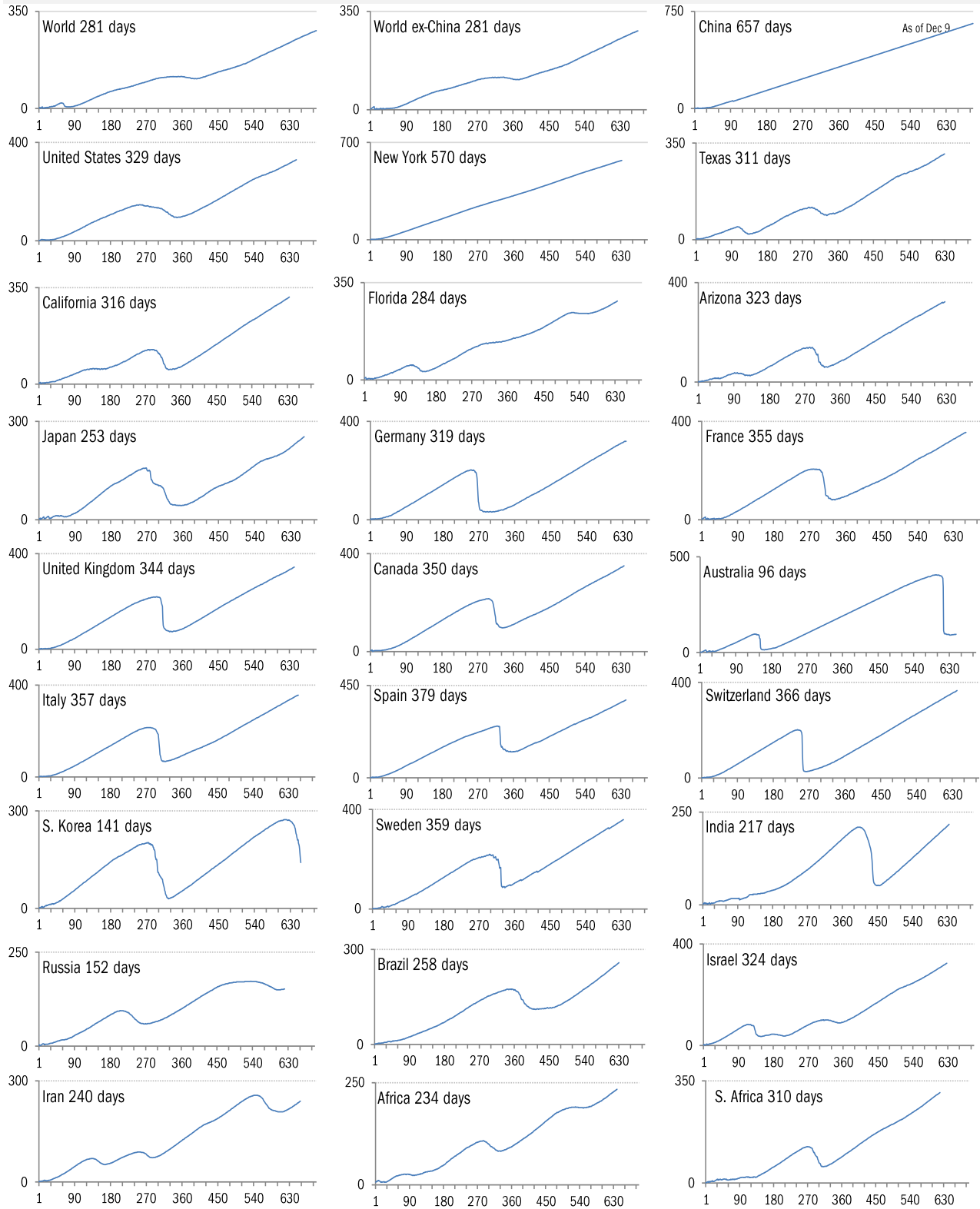


Source: [Johns Hopkins](#), TrendMacro calculations

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

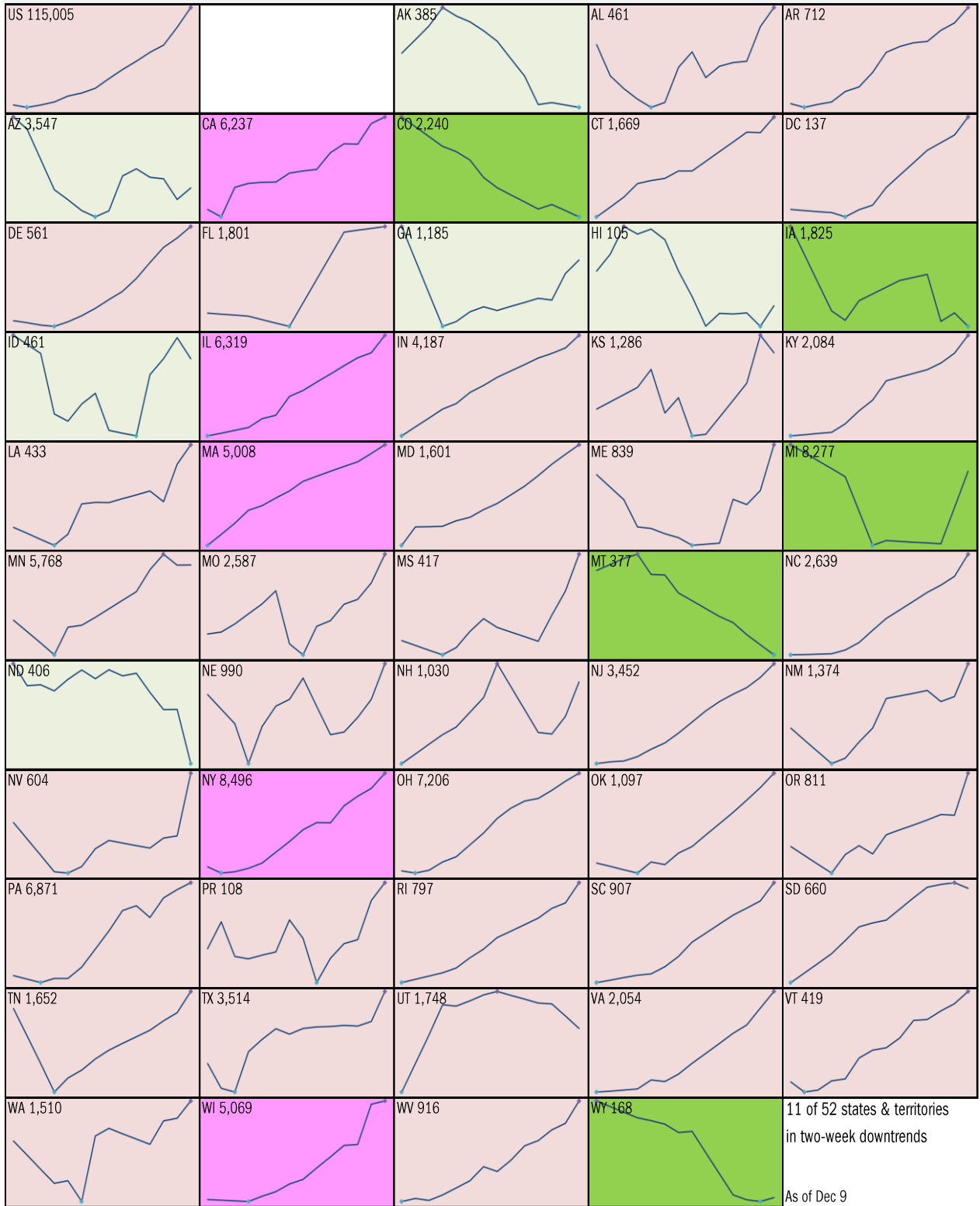
Vertical: days to double deaths Horizontal: days from first death

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

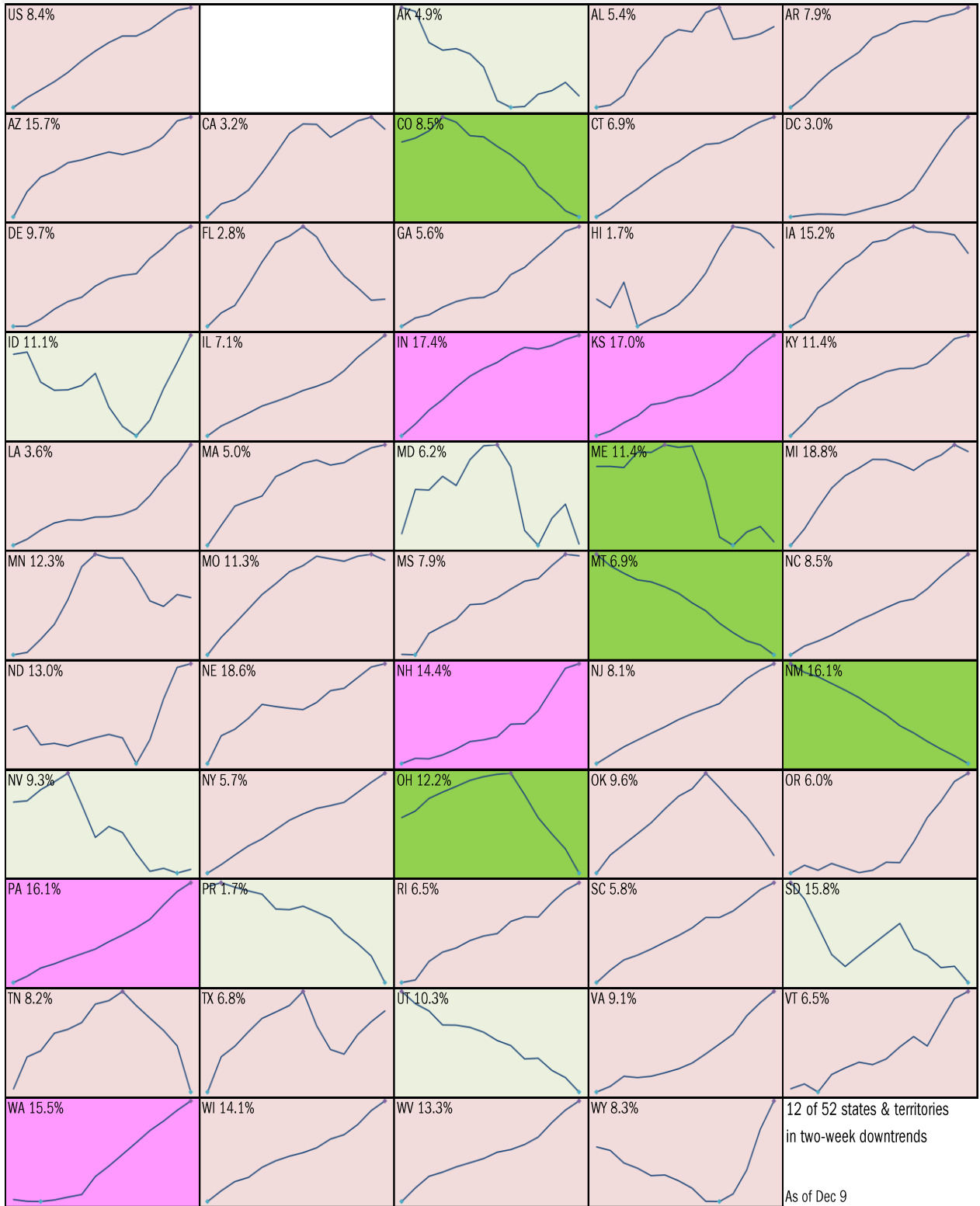


Source: [Johns Hopkins](#), TrendMacro calculations

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

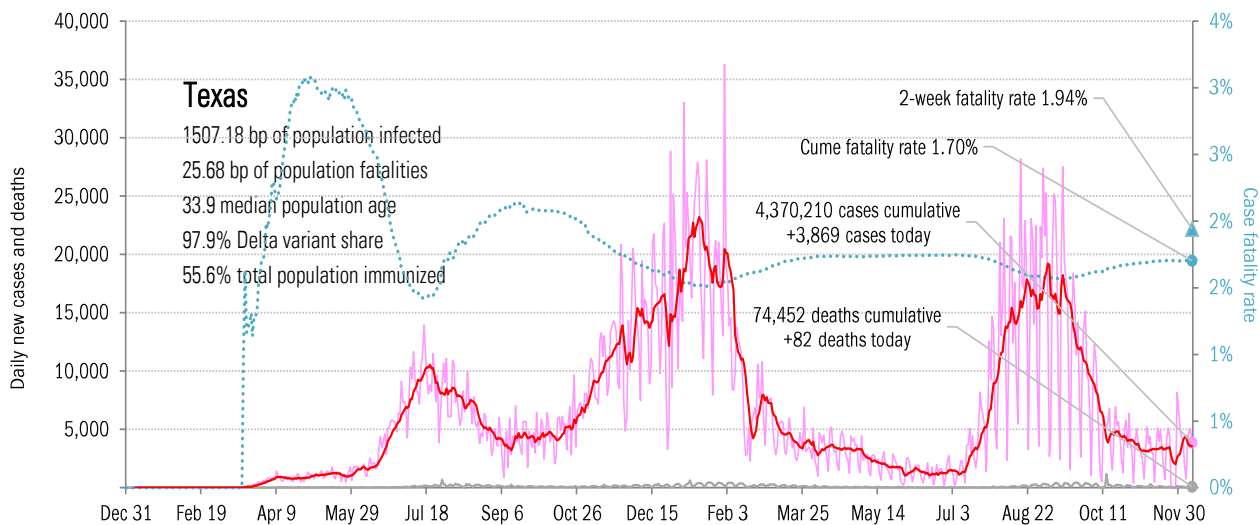
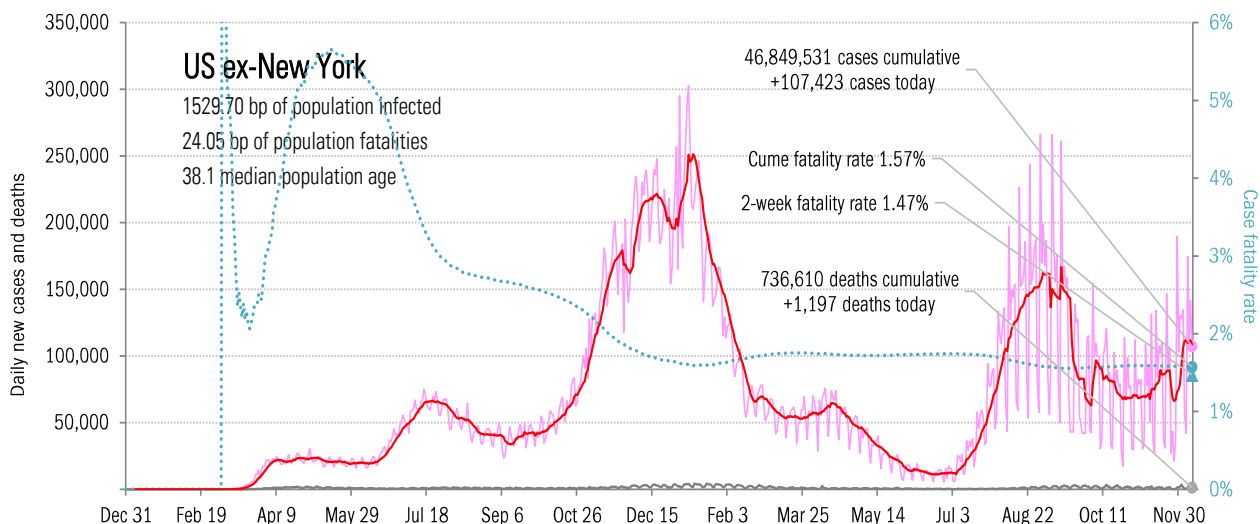
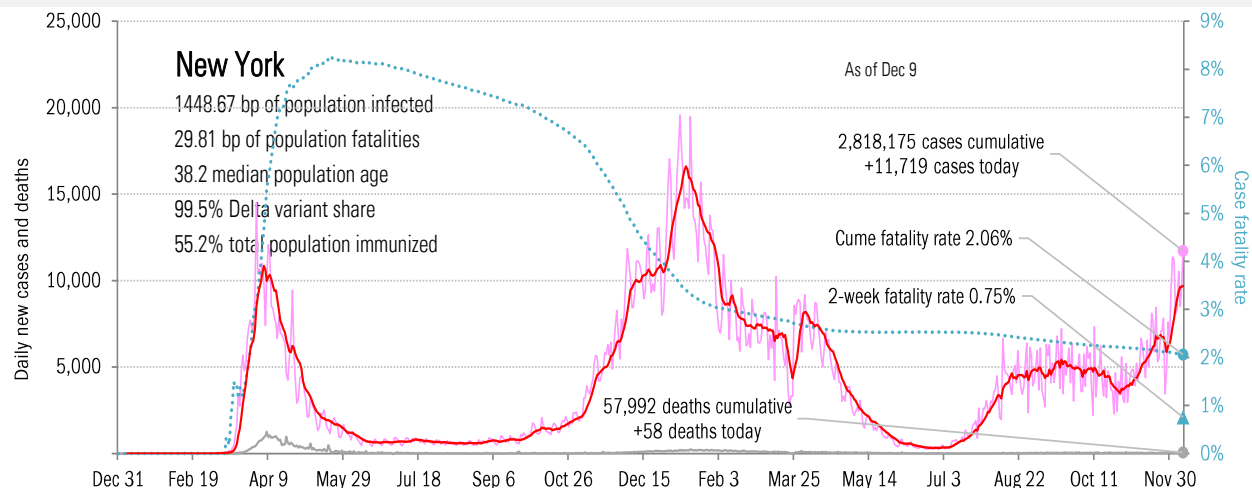
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

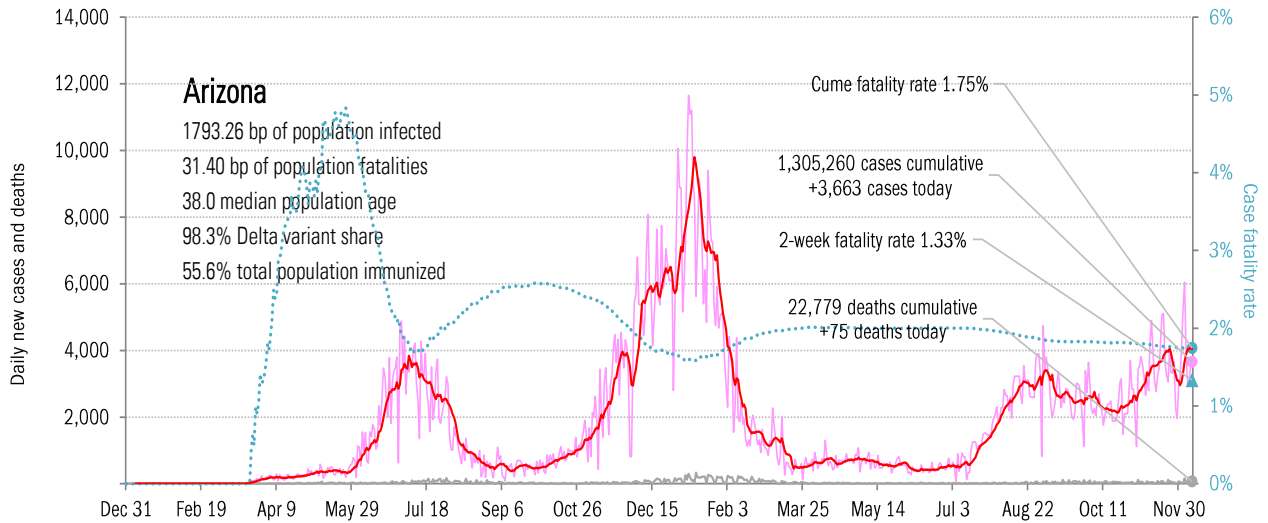
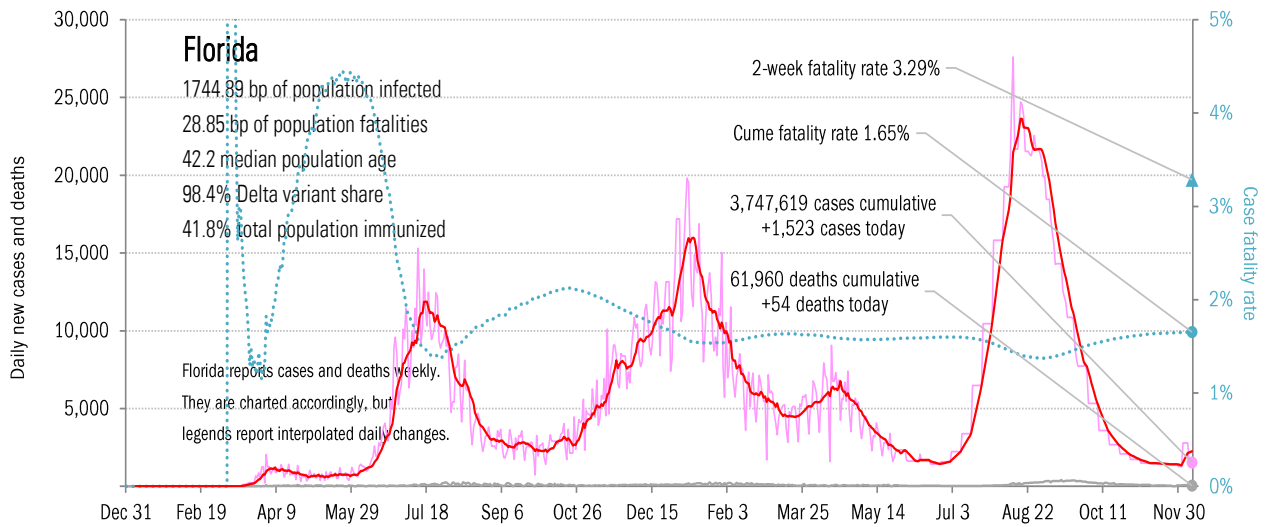
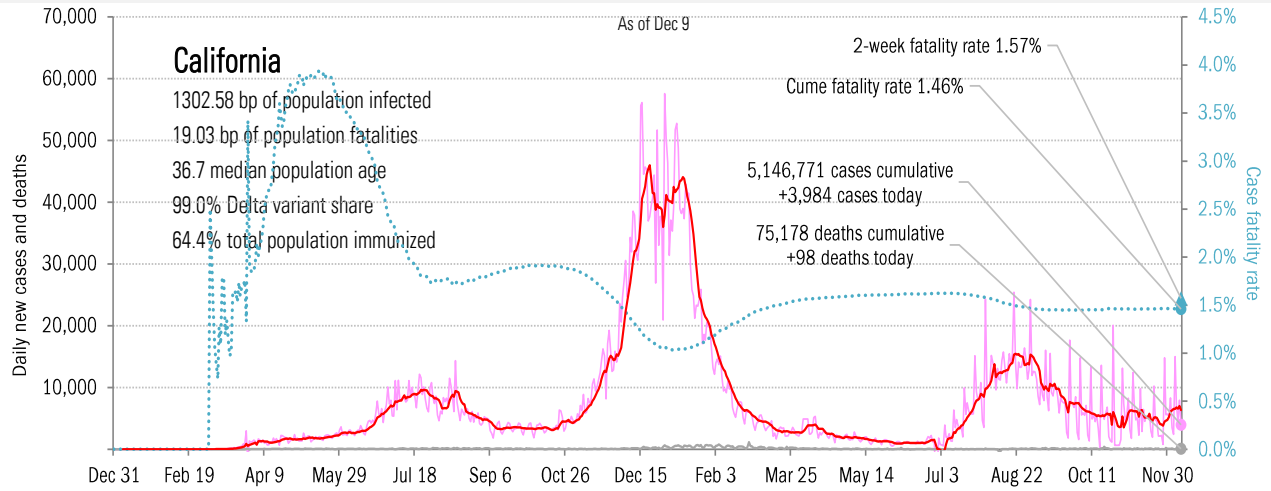
Cases: 7-day average and daily Deaths: Daily



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

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

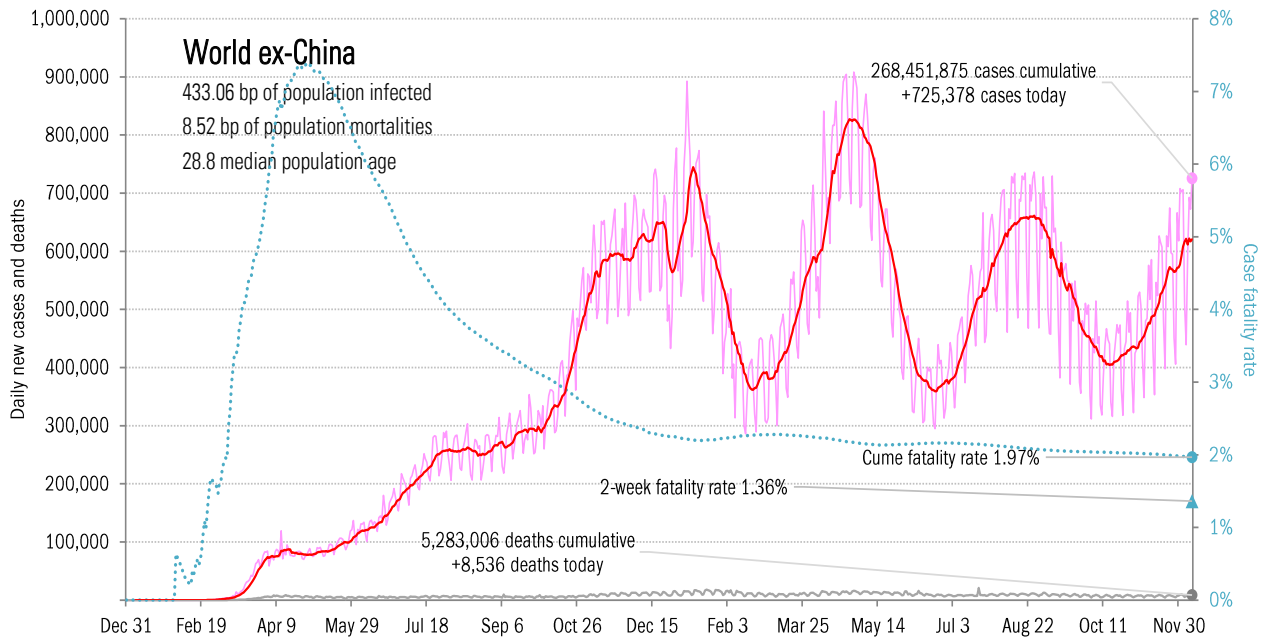
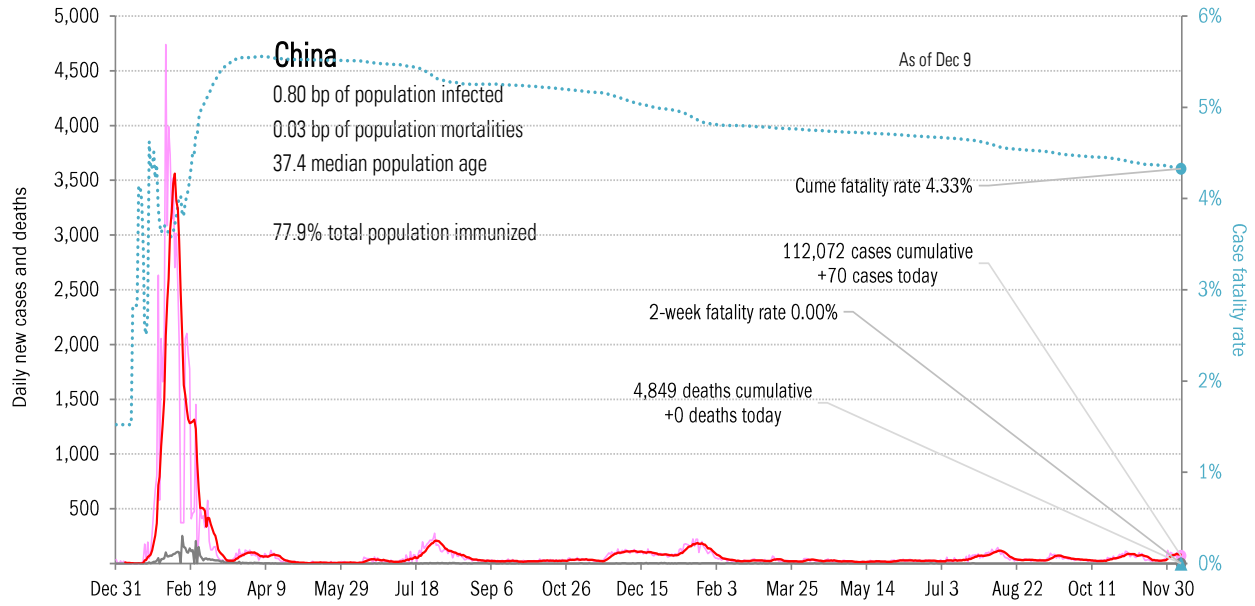
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

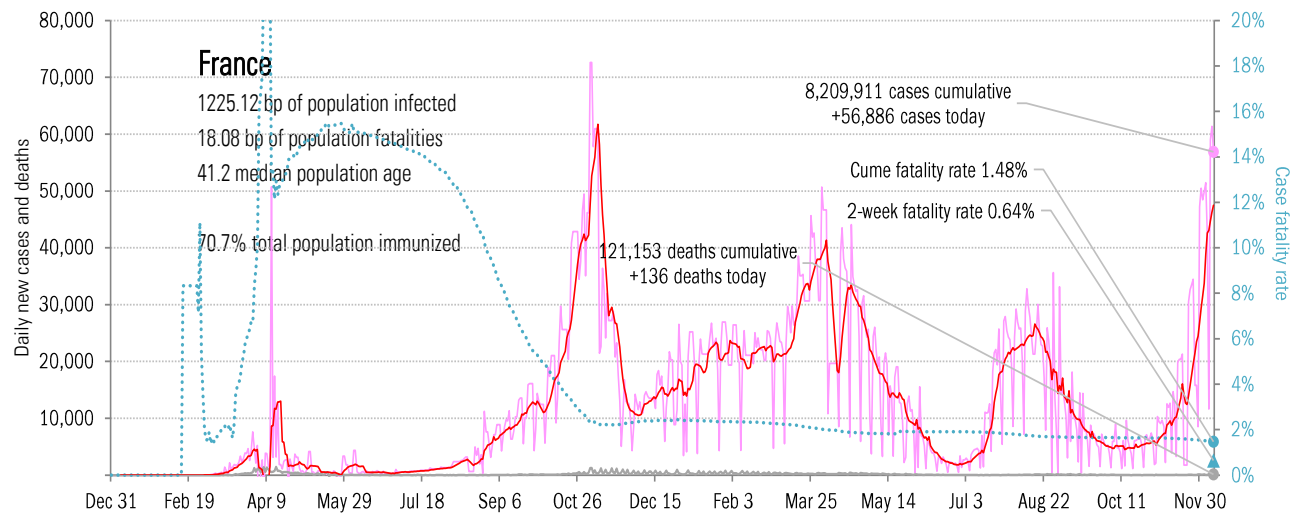
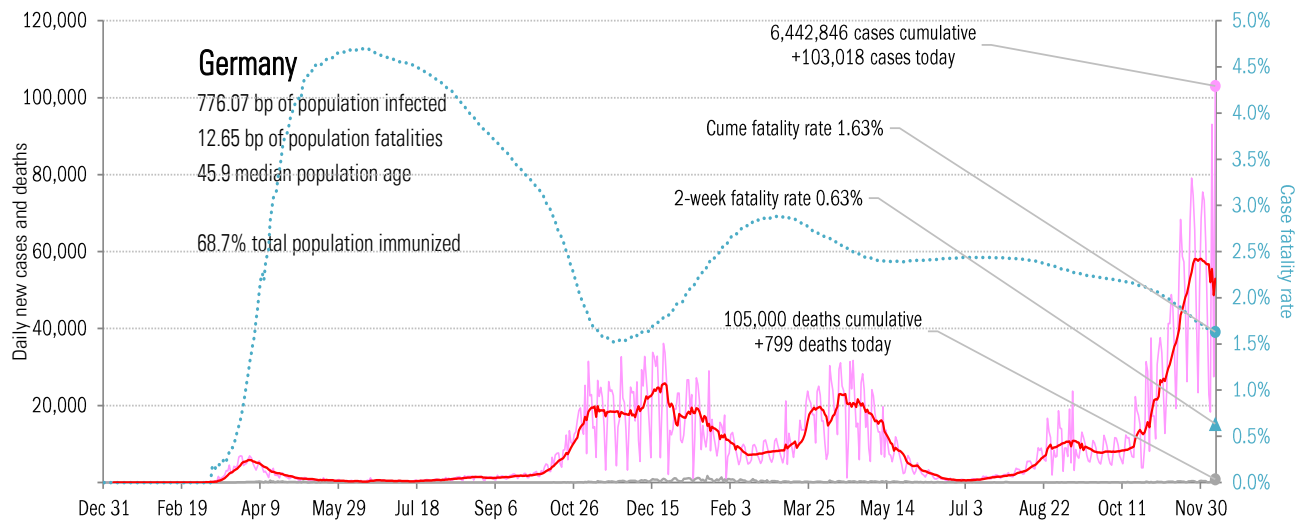
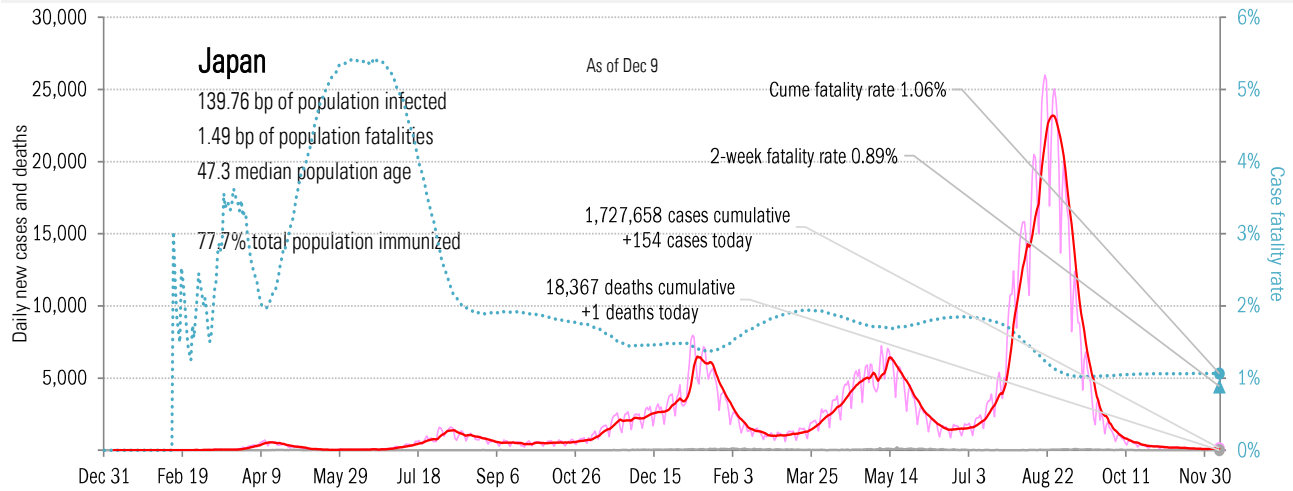
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

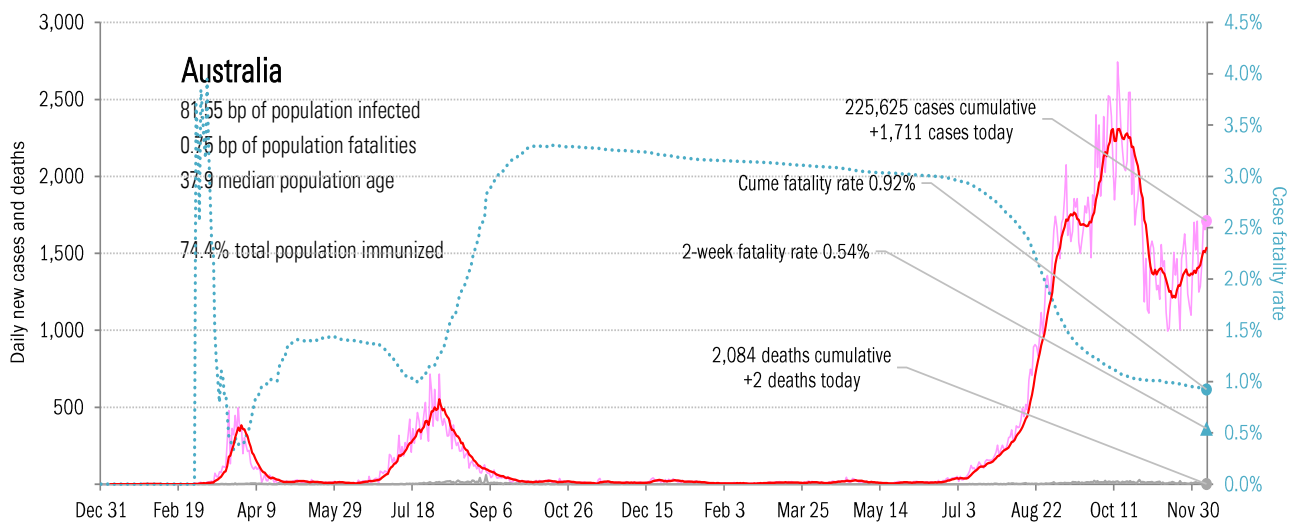
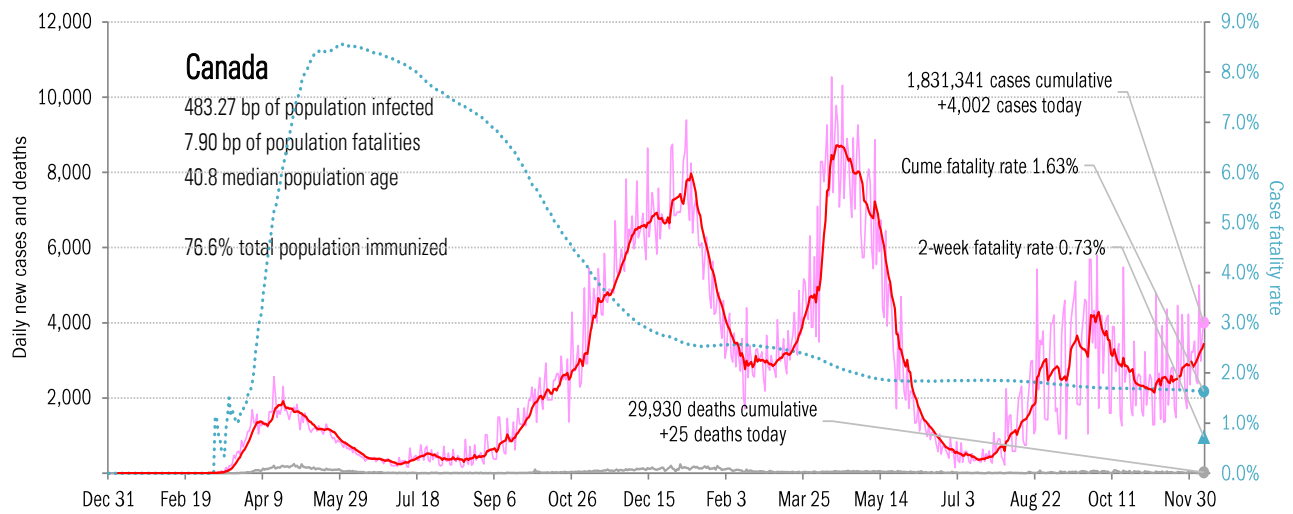
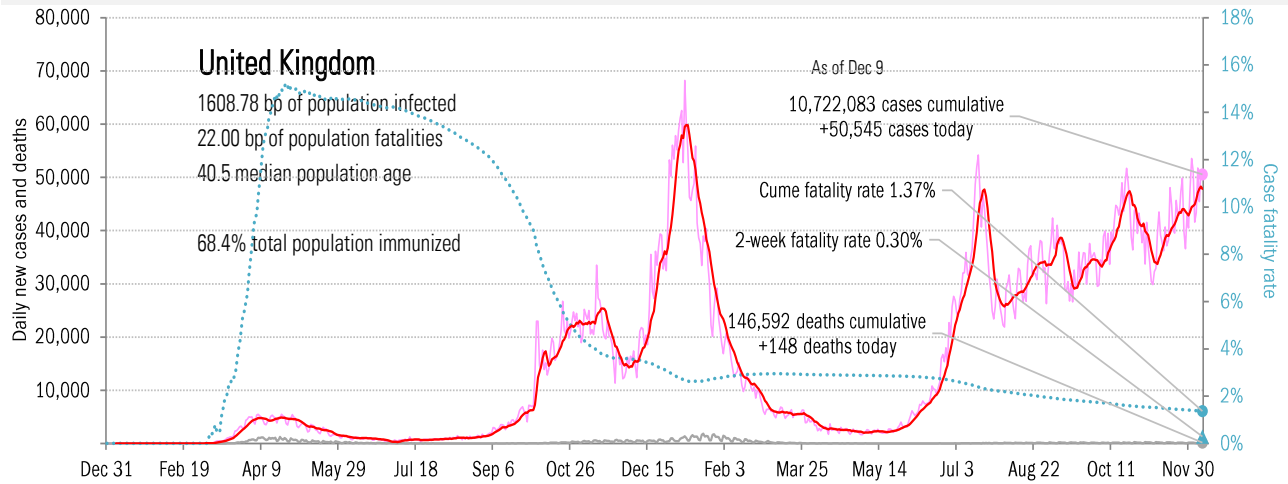
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

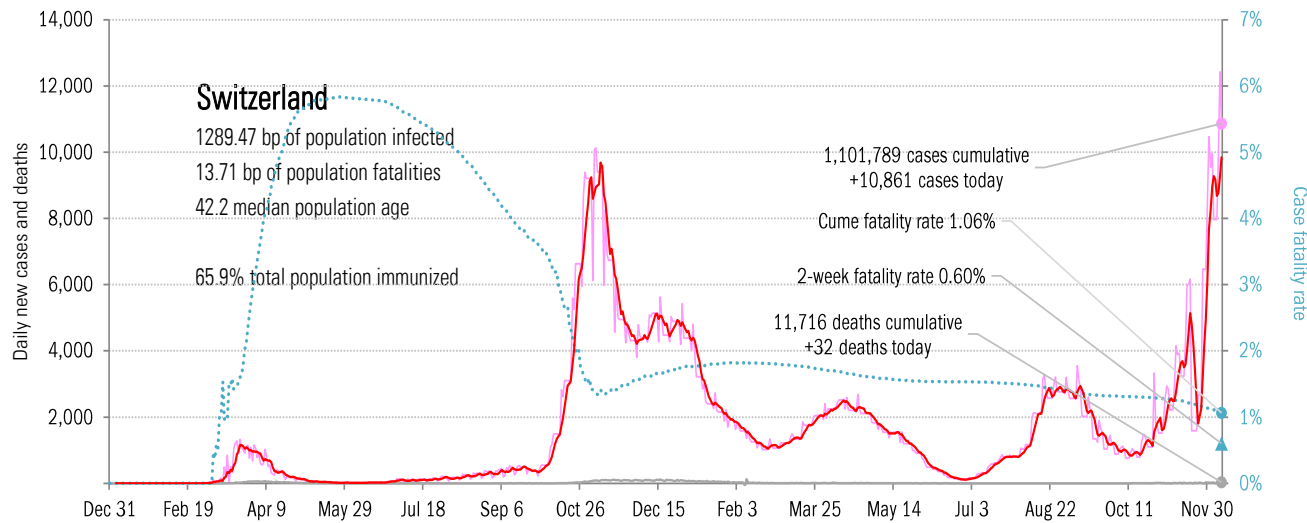
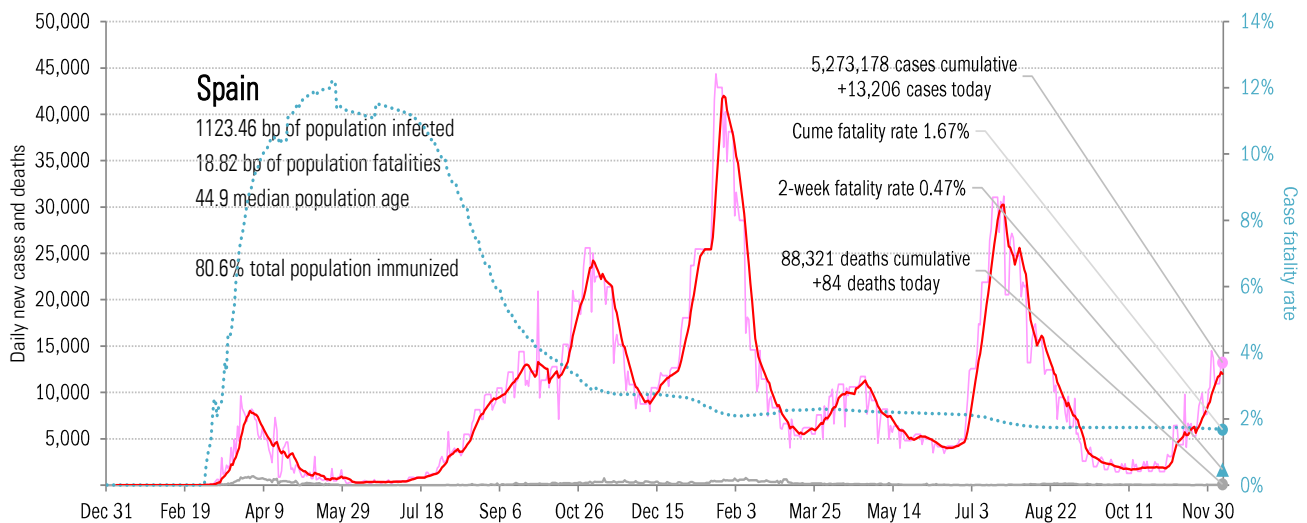
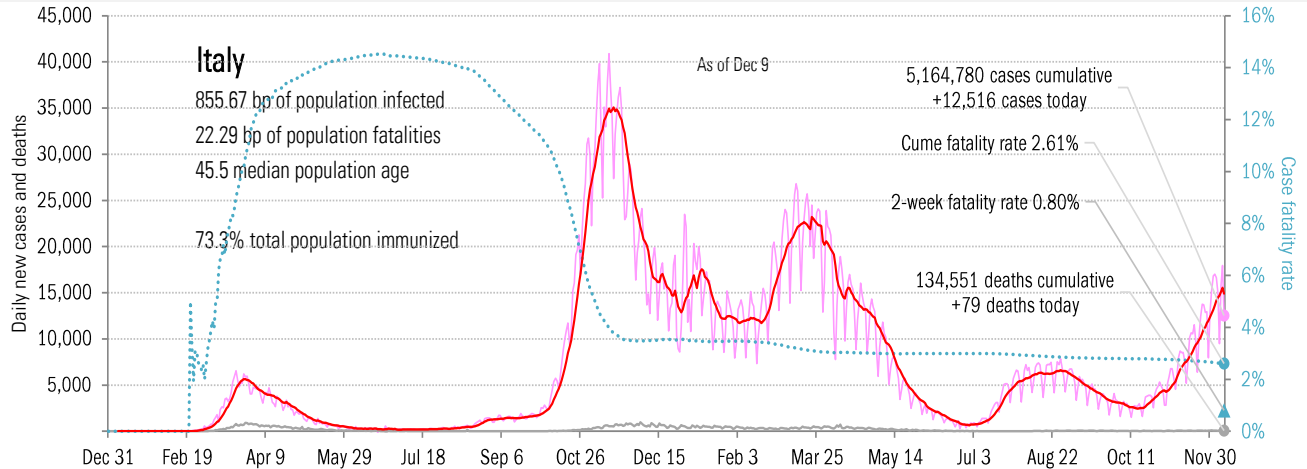
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

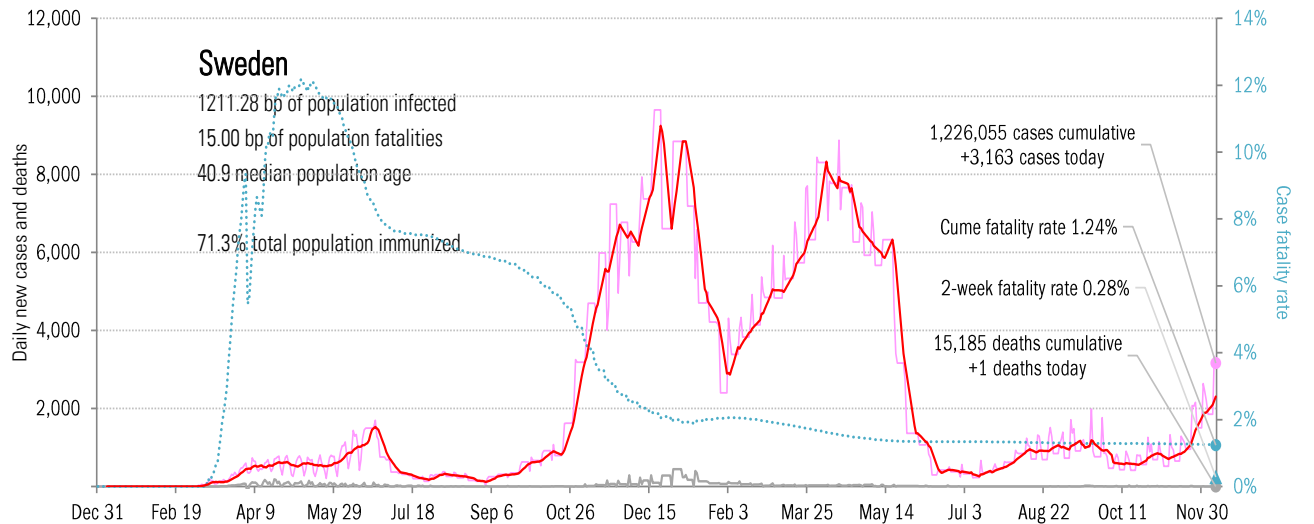
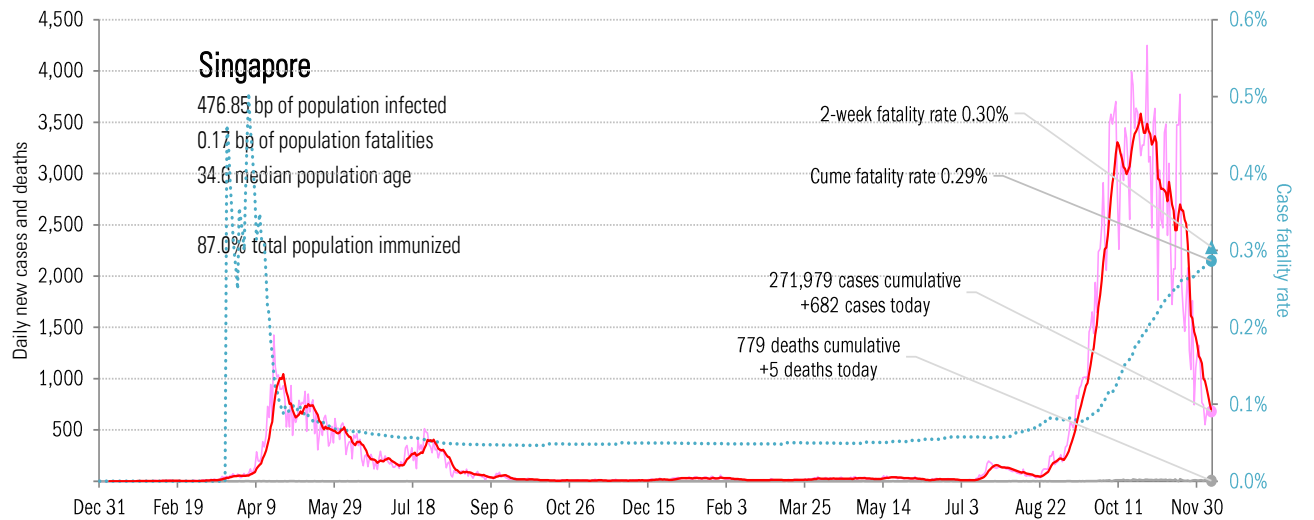
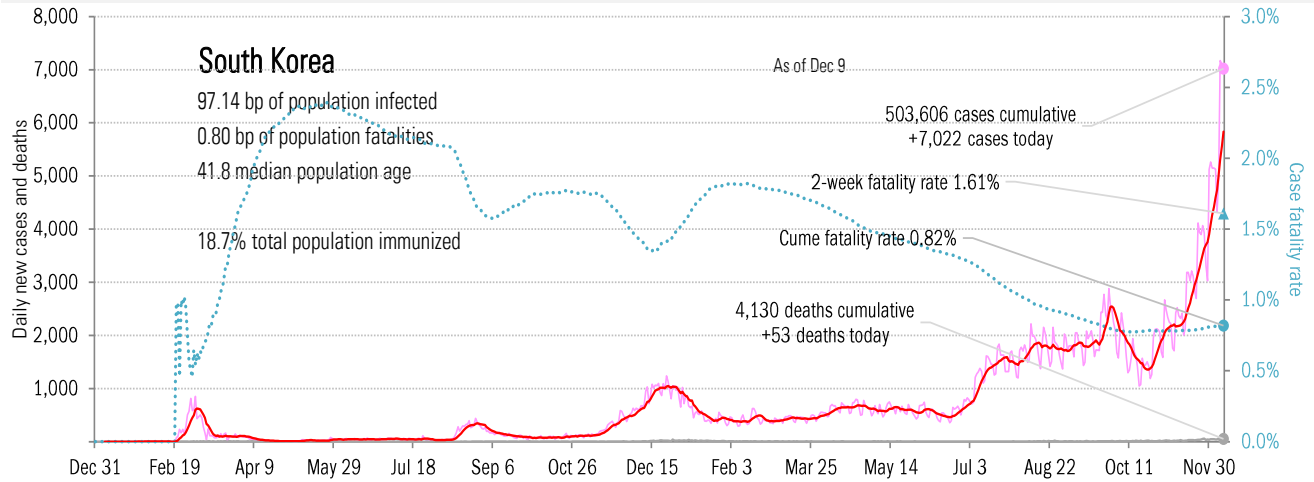
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

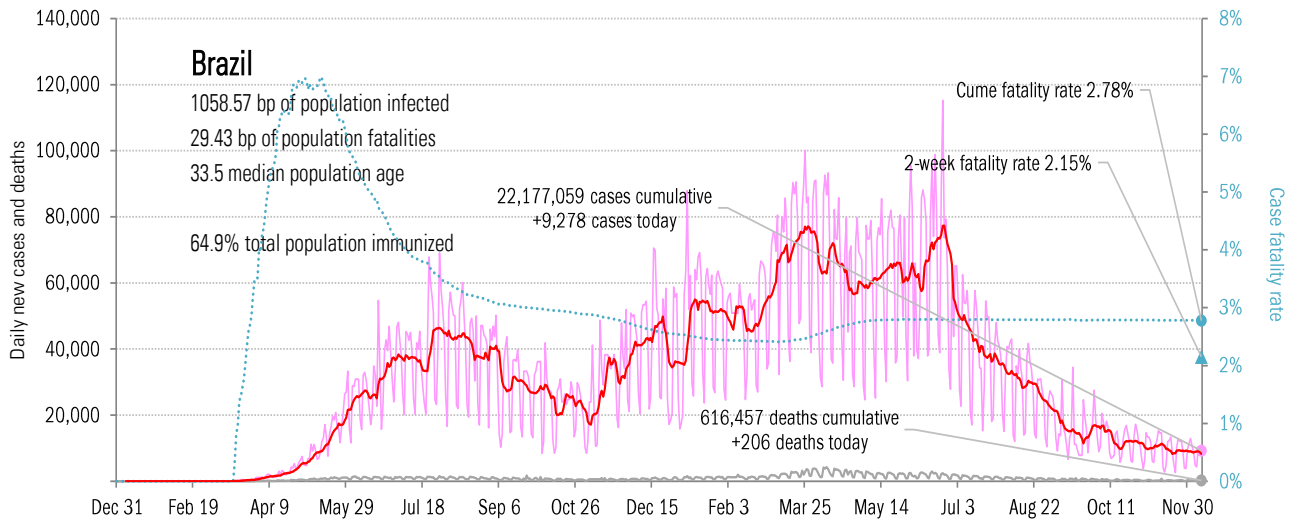
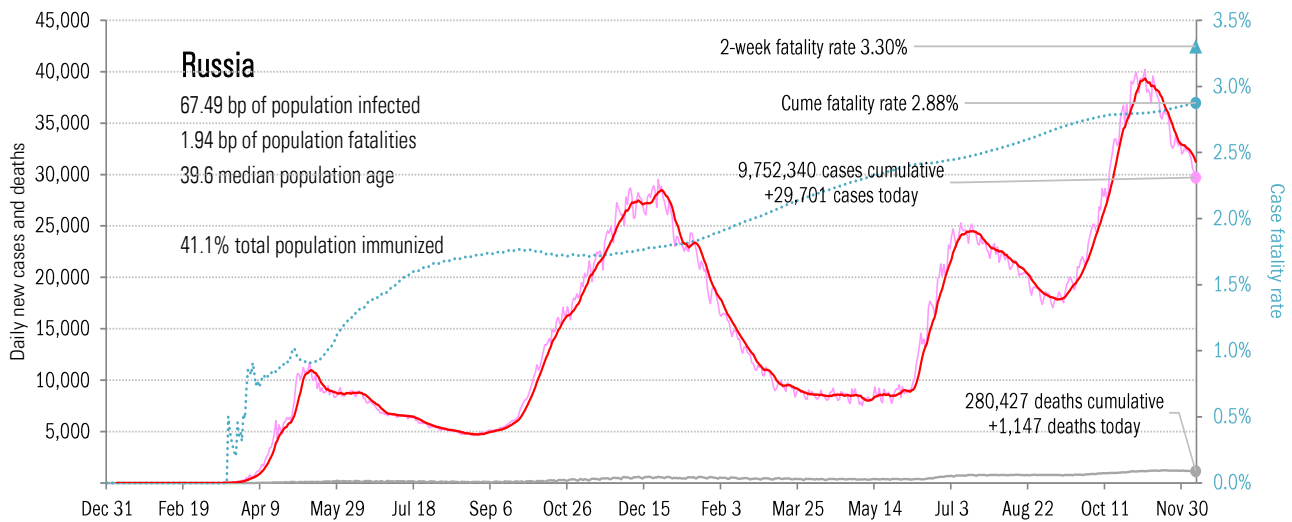
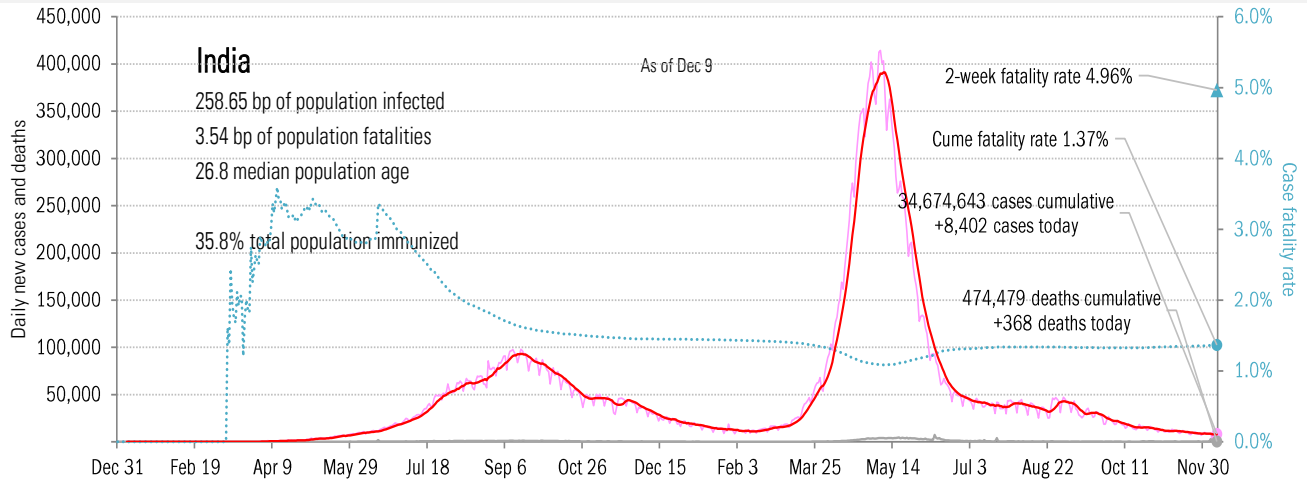
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

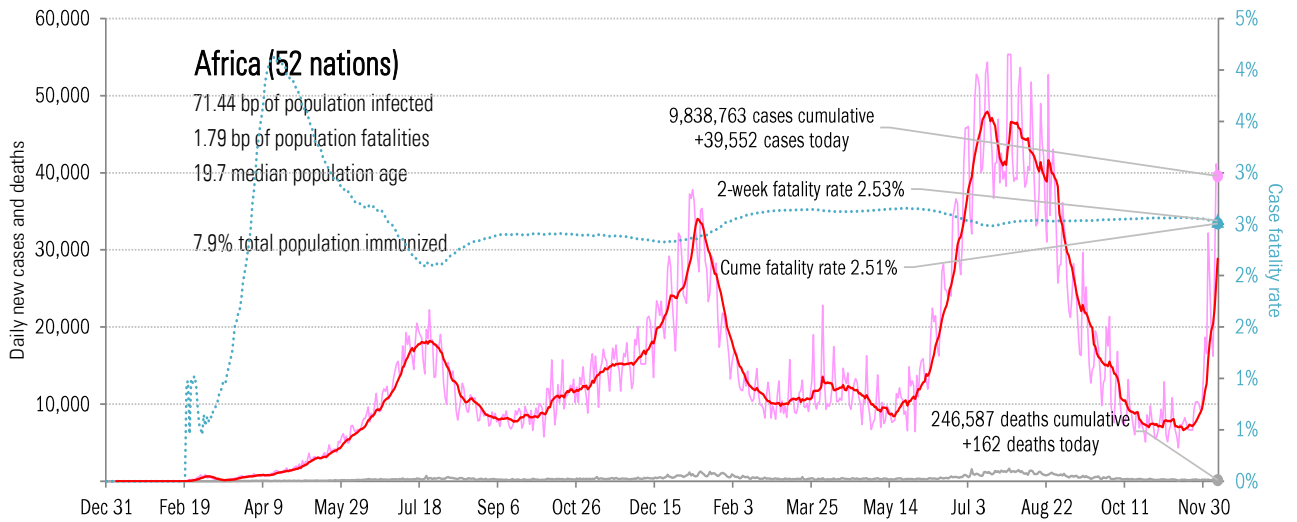
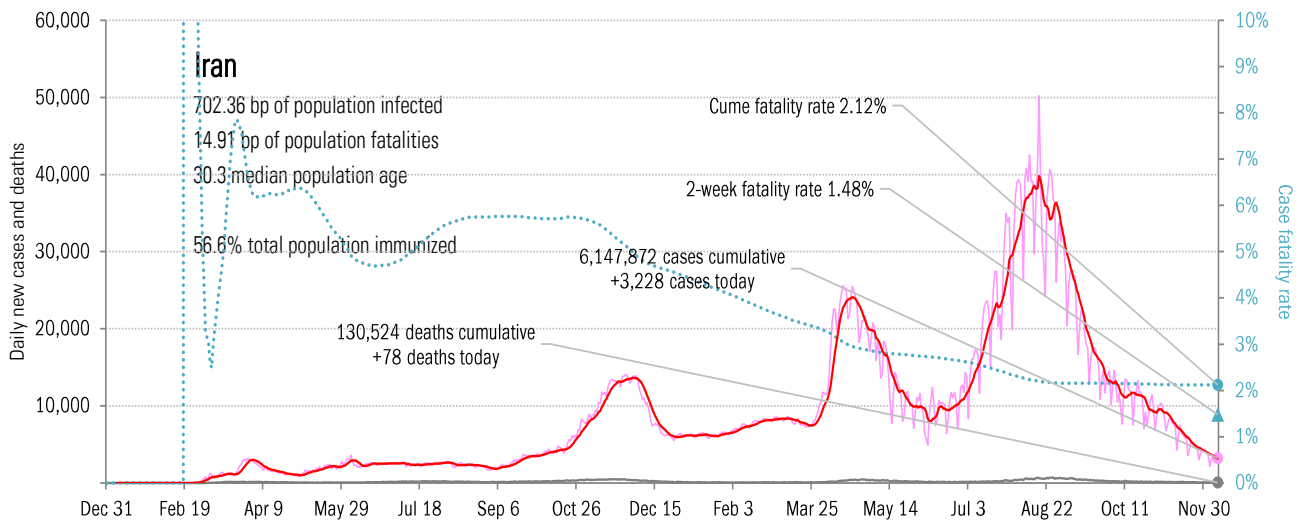
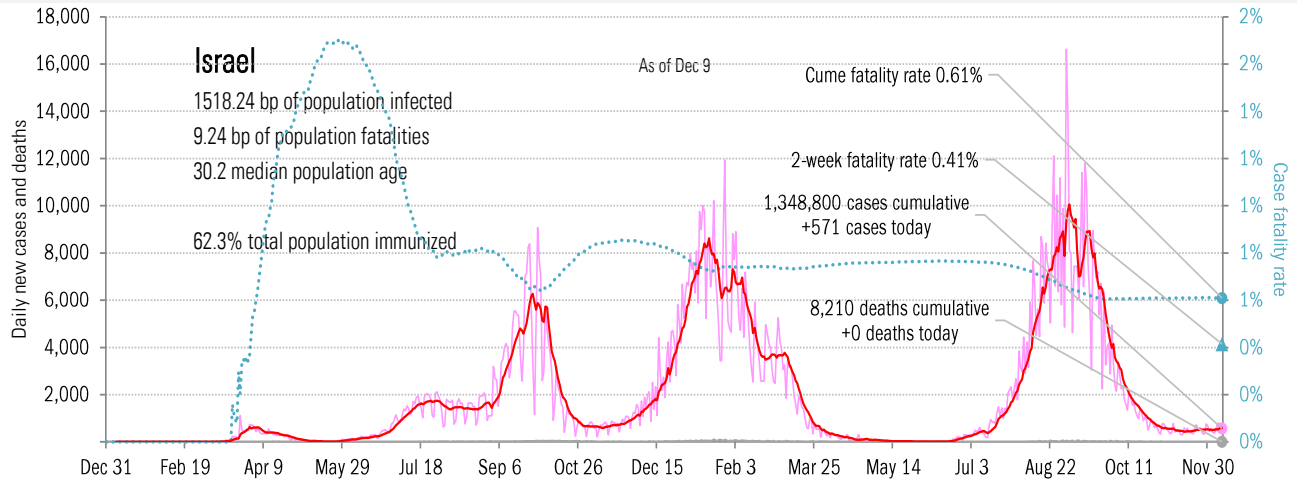
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

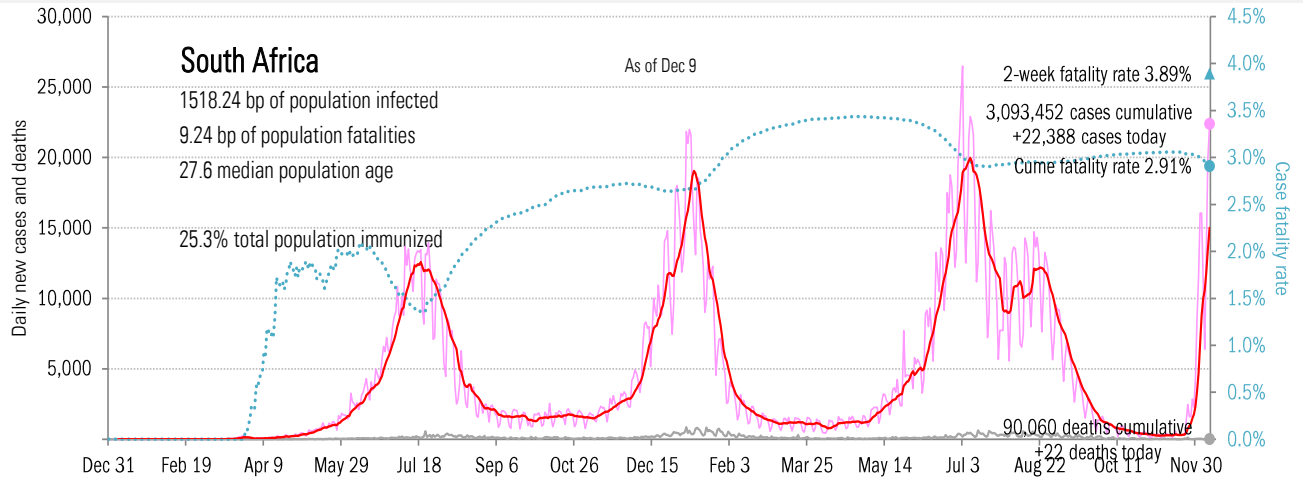
Cases: **7-day average** and **daily** Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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