

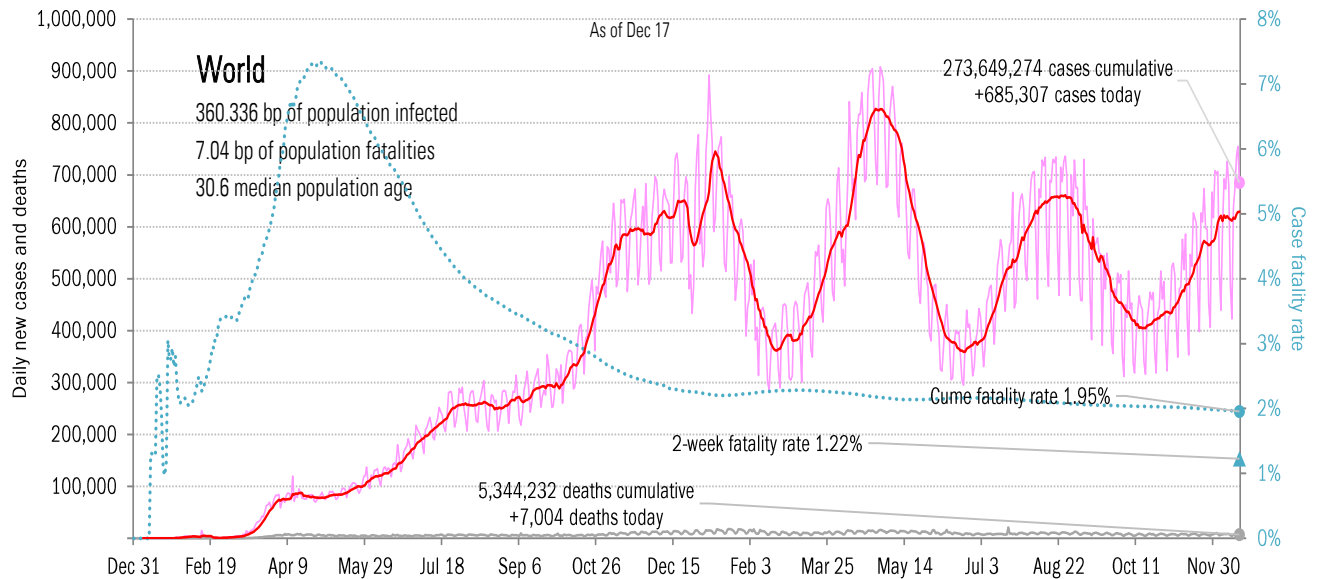
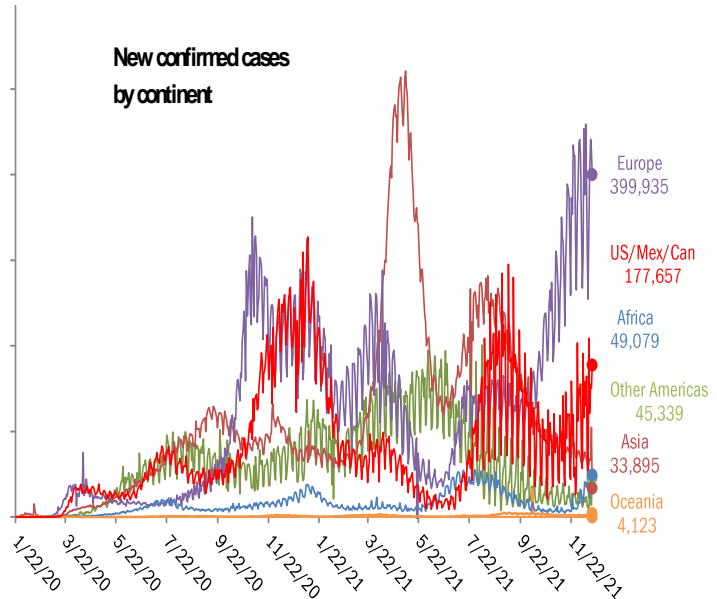
Data Insights: Covid-2019 Monitor

Saturday, December 18, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+ 168,584	United States	+ 2,170
United Kingdom	+ 92,907	Russia	+ 1,052
France	+ 58,152	Poland	+ 566
Spain	+ 33,359	Ukraine	+ 356
Italy	+ 28,615	Vietnam	+ 246
Russia	+ 27,427	France	+ 162
South Africa	+ 20,713	Germany	+ 157
Poland	+ 20,027	Hungary	+ 154
Germany	+ 15,716	Brazil	+ 124
Netherlands	+ 15,433	Czechia	+ 123
+ 480,933		+ 5,110	
World	+ 685,307	World	+ 7,004
Top ten	70%	Top ten	73%



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

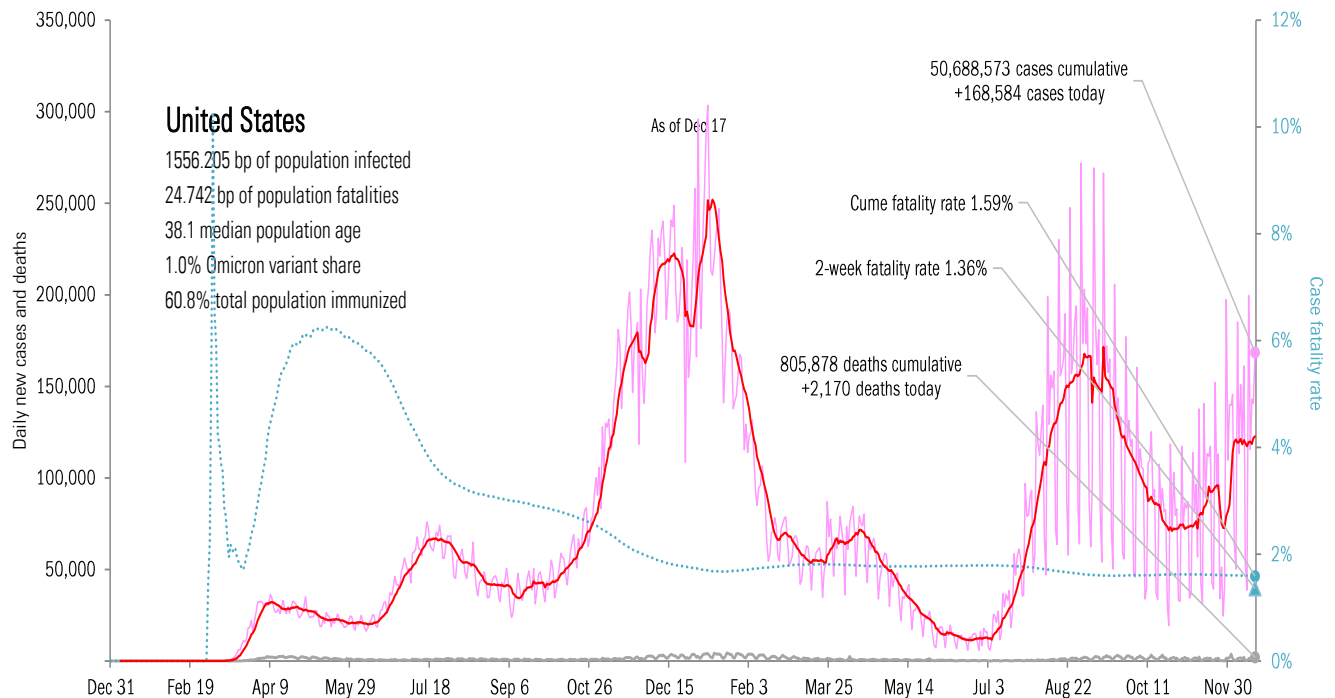
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
NY	+20,897		CH	+434		GA	+94		CA	5,199,762		CA	75,679		TX	391,233		RI	87%	NH	93%
MI	+14,462		MI	+280		FL	+39		TX	4,418,674		TX	74,992		CA	327,019		MA	87%	NM	93%
IL	+10,765		AZ	+143		IN	+37		FL	3,764,723		FL	62,275		FL	326,820		PA	87%	KY	92%
CH	+10,025		TX	+95		IL	+36		NY	2,920,366		NY	58,492		NY	180,593		AZ	87%	TX	91%
CA	+8,748		PA	+88		PA	+31		IL	1,944,056		PA	35,183		GA	165,545		MI	86%	NE	90%
PA	+8,629		GA	+83		CT	+17		PA	1,874,197		GA	30,994		CH	145,487		MD	86%	AR	89%
NJ	+7,397		NY	+80		AR	+16		CH	1,829,367		IL	29,550		PA	135,829		GA	85%	MO	89%
MA	+7,070		CA	+76		DC	+14		GA	1,691,674		NJ	28,675		IL	118,002		MO	85%	DE	89%
TX	+6,177		OK	+67		DE	+13		MI	1,614,141		CH	28,028		KY	117,654		WV	84%	OK	89%
IN	+5,143		NM	+61		UT	+13		NC	1,589,054		MI	27,739		MI	111,984		NH	84%	RI	89%
+99,313			+1,407			+310			26,846,014			451,607			2,020,166						
All states	+168,584		+2,170			-172			All states	50,688,573		805,878			3,646,452			All states	70%	67%	
Top ten	59%		65%			-180%			Top ten	53%		56%			55%			Median	79%	82%	

Some states not reporting

Five most improved US states

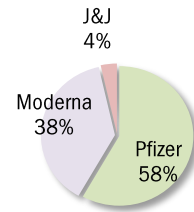
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
FL	-2,441	FL	-146	VA	-90	IL	+20 bp
CH	-1,778	CO	-40	NJ	-85	MA	+20 bp
IL	-1,093	PA	-17	IL	-78	ME	+20 bp
MO	-950	OR	-15	TX	-67	NE	+20 bp
CT	-642	CA	-10	KY	-65	PA	+20 bp



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	504,926,853		+1.892 million	US	60.8%	72.5%
Boosters	59,116,611		+1.099 million	UK	68.8%	75.4%
	One dose	% Pop	Immune	% pop	New immune today	
Total population	246,719,601	74%	208,602,323	62%	+0.323 million	France 71.8% 77.6%
Age 12 to 17	14,975,548	63%	12,581,439	53%	+0.018 million	Spain 80.8% 82.6%
Age 18 to 64	166,932,813	82%	142,299,477	70%	+0.144 million	Germany 69.6% 72.6%
Age 65 and over	57,964,613	100%	49,512,735	90%	+0.028 million	Italy 73.6% 79.2%
						Australia 75.7% 78.8%
						Israel 62.6% 69.3%
						Canada 76.9% 82.4%
						Japan 77.9% 79.4%
						Africa 8.4% 12.9%
						India 38.7% 59.3%
						Brazil 66.1% 77.3%
						China 80.5% 84.8%



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



Every American >18 immunized in **65 days** by Feb 19, 2022
 74.1% of population >18 immunized
 17.8% previously tested positive
92.0% vs 60% adult herd immunity

Global data differs due to sources, timing

AK
64.4%
55.8%

WI
67.3%
61.3%

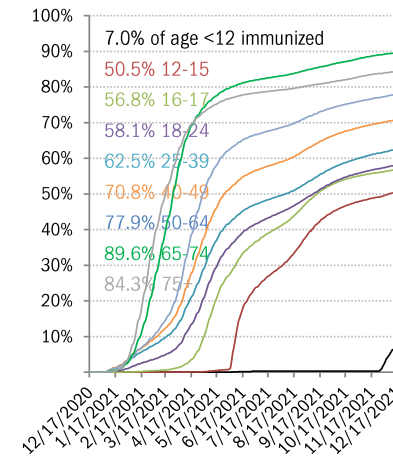
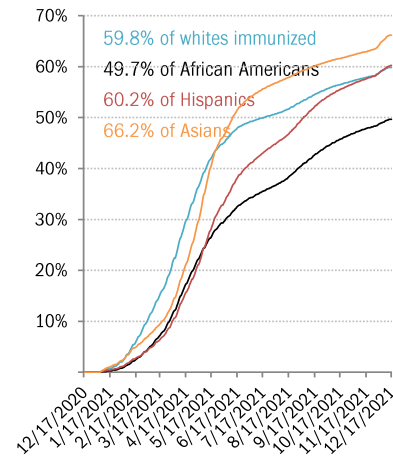
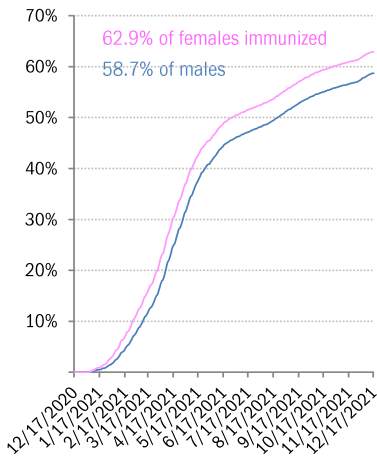
As of Dec 17

ME
84.4%
75.0%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
74.6%	51.7%	61.4%	61.4%	70.6%	70.9%	62.6%	81.7%	87.8%	94.1%	
67.2%	45.9%	53.5%	51.9%	64.7%	63.5%	56.2%	70.8%	76.1%	66.3%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
73.1%	68.3%	55.1%	69.5%	64.0%	57.1%	59.7%	84.7%	81.9%	88.7%	
65.8%	55.8%	47.0%	56.3%	58.4%	51.6%	54.7%	60.7%	69.7%	73.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
81.2%	66.5%	73.4%	65.6%	61.5%	61.7%	89.6%	77.6%	79.0%	86.8%	86.6%
65.3%	57.9%	65.4%	59.2%	52.5%	53.7%	71.6%	67.2%	69.7%	74.0%	75.4%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	66.2%	79.2%	68.1%	61.9%	58.1%	74.0%	61.8%	85.8%	75.4%	
	56.3%	65.5%	56.3%	50.6%	50.8%	56.0%	52.6%	66.6%	63.4%	
			OK	LA	MS	AL	GA			
			64.8%	56.7%	55.2%	57.8%	60.3%			
			52.9%	49.8%	48.0%	47.1%	50.4%			
			TX					FL		PR
			65.7%					73.4%		87.6%
			56.3%					62.7%		76.2%

HI
83.8%
62.6%

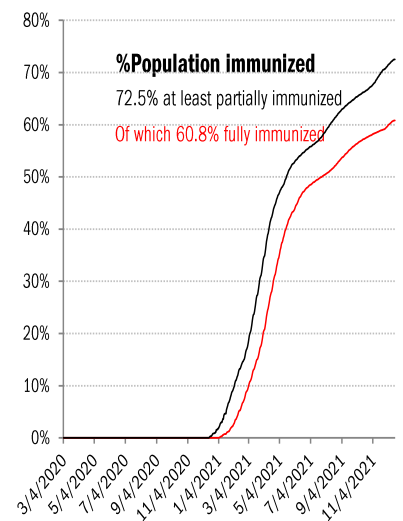
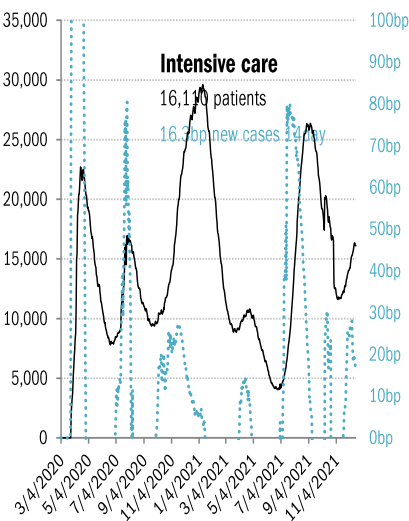
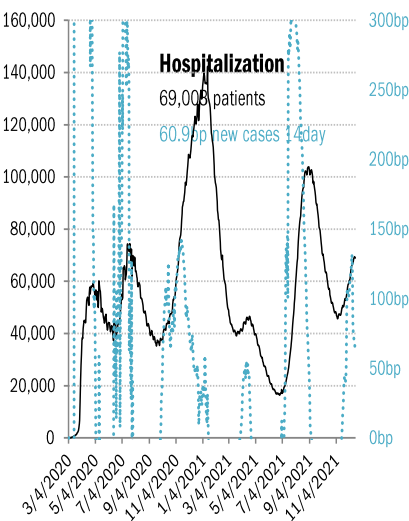
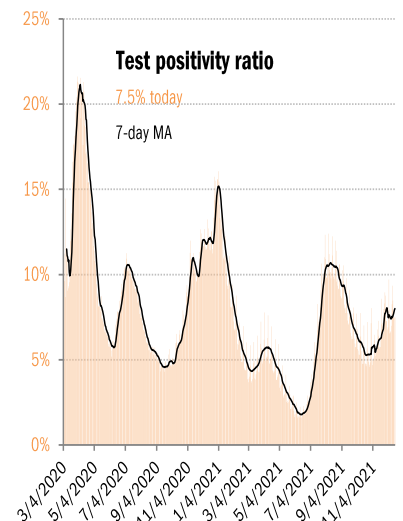
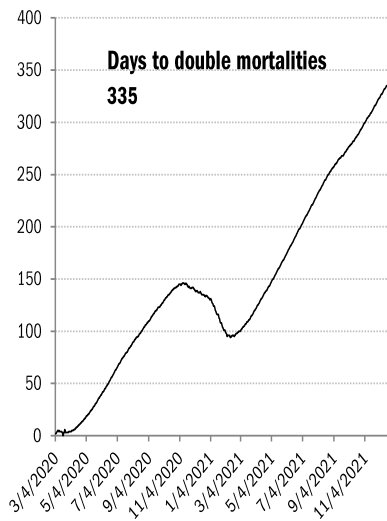
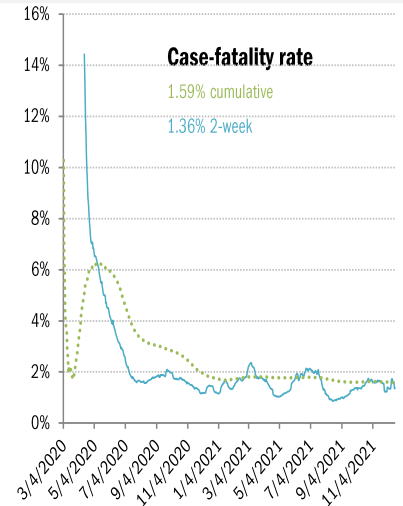
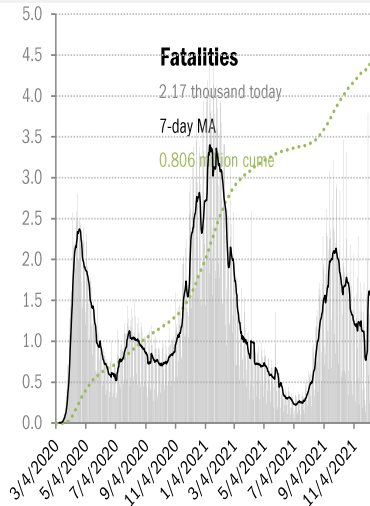
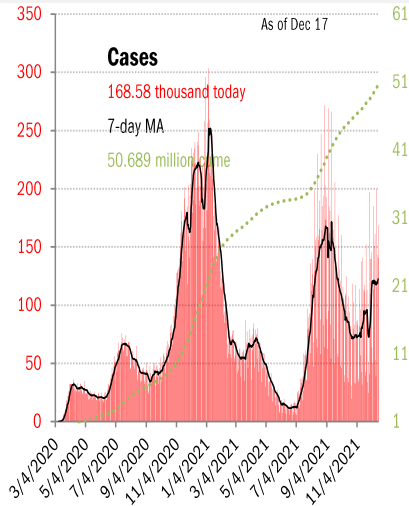
The demographics of US vaccination



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

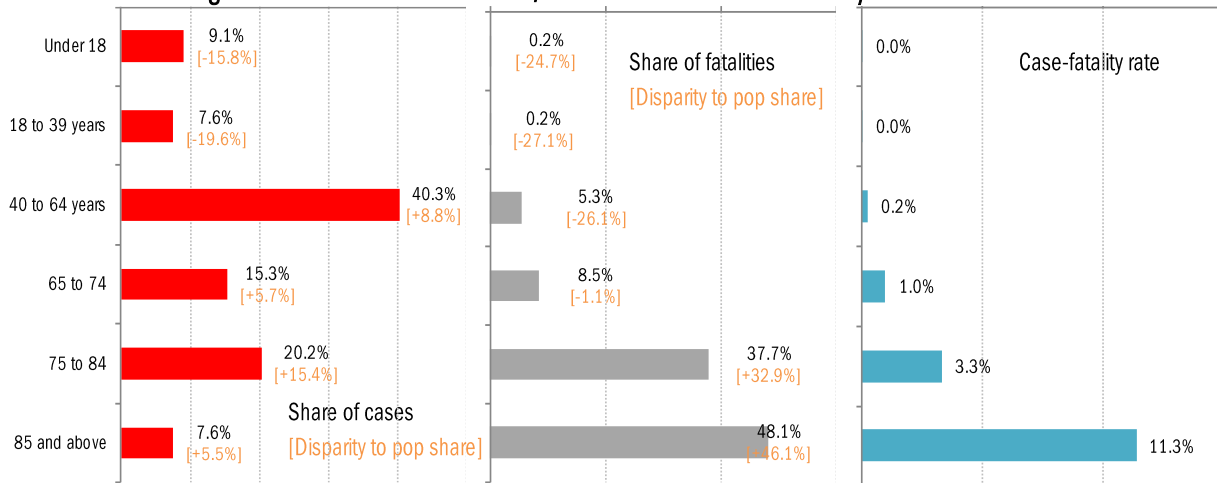
US deep-dive

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

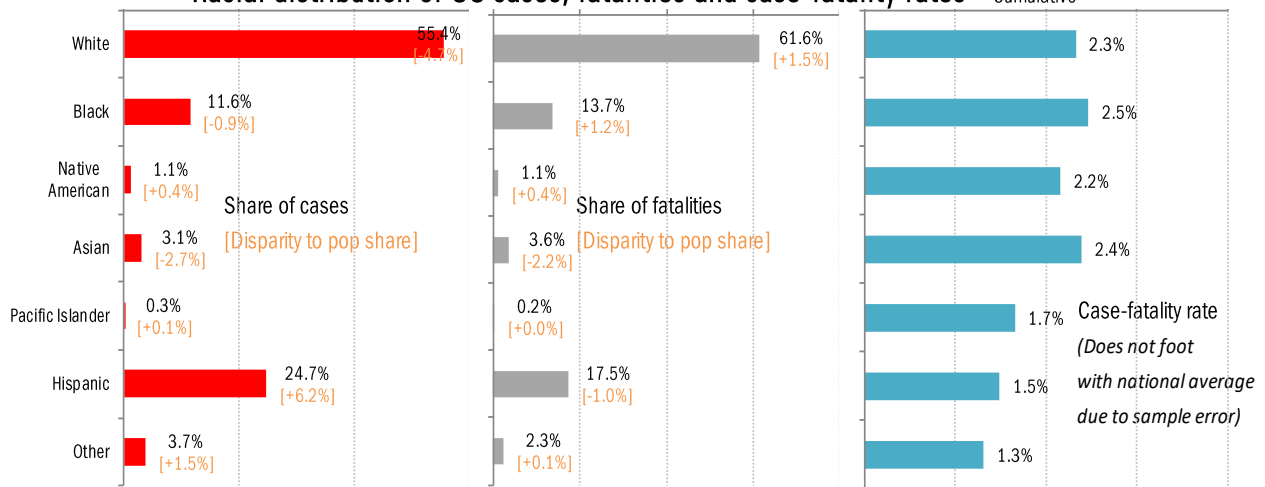


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

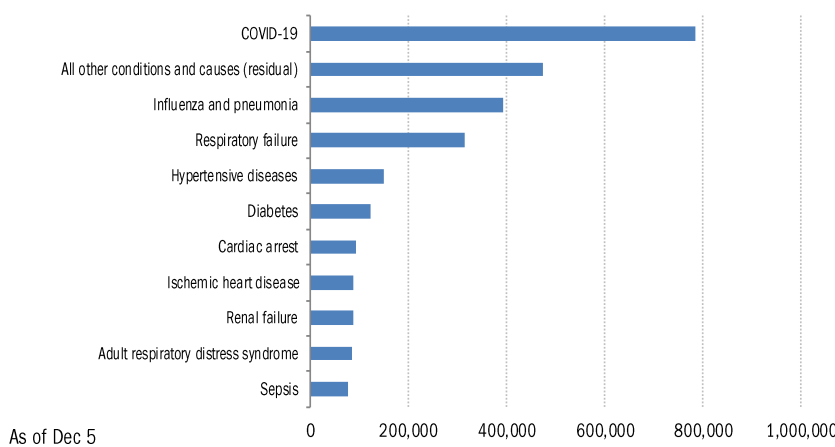


Racial distribution of US cases, fatalities and case-fatality rates



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

[An Insider Explains the Supply-Chain Crisis](#)

Tunku Varadarajan
Wall Street Journal
December 17, 2021

[Appeals Court Reinstates OSHA's Vaccine Mandate for Workers at Larger Businesses](#)

Lauren Hirsch, Emma Goldberg and Charlie Savage
New York Times
December 17, 2021

[In a trial, Pfizer-BioNTech's low-dose shot fell short for children aged 2 to just under 5.](#)

Apoorva Mandavilli and Rebecca Robbins
New York Times
December 17, 2021

[As Covid Surges, Experts Say U.S. Booster Effort Is Far Behind](#)

Shawn Hubler and Amy Harmon
New York Times
December 18, 2021

[Why Los Angeles Delayed Enforcing Its Student Vaccine Mandate](#)

Jacey Fortin and Giulia Heyward
New York Times
December 18, 2021

[Biden: Unvaxxed will 'overwhelm' hospitals in 'winter of illness and death'](#)

Steven Nelson
New York Post
December 16, 2021

[Affordable Coronavirus Tests Are Out There, if You Look](#)

Emily Anthes
New York Times
December 16, 2021

[Ron Johnson demands records from medical journals that retracted COVID-19 studies](#)

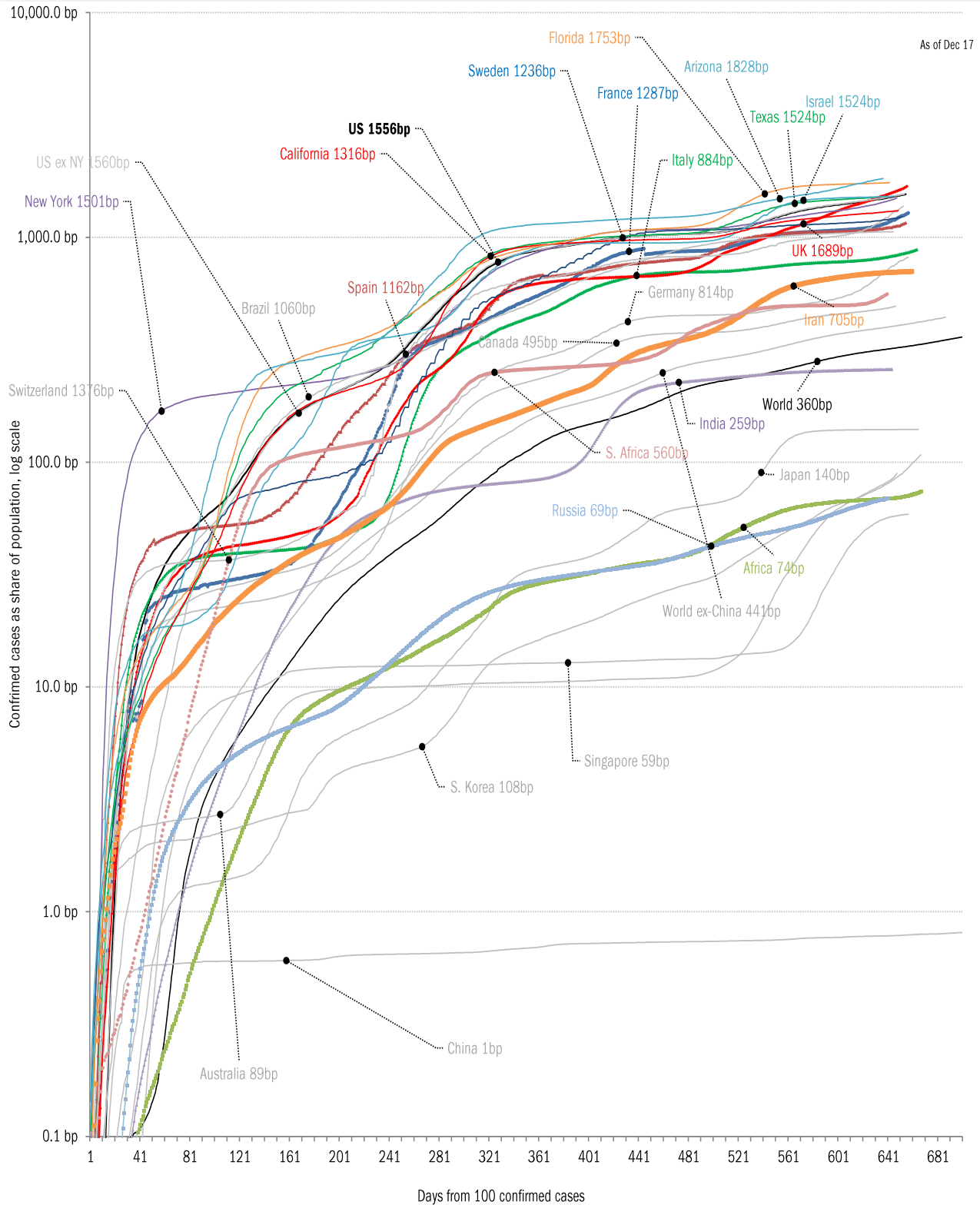
Andrew Kerr
Washington Examiner
December 16, 2021

Meme of the day



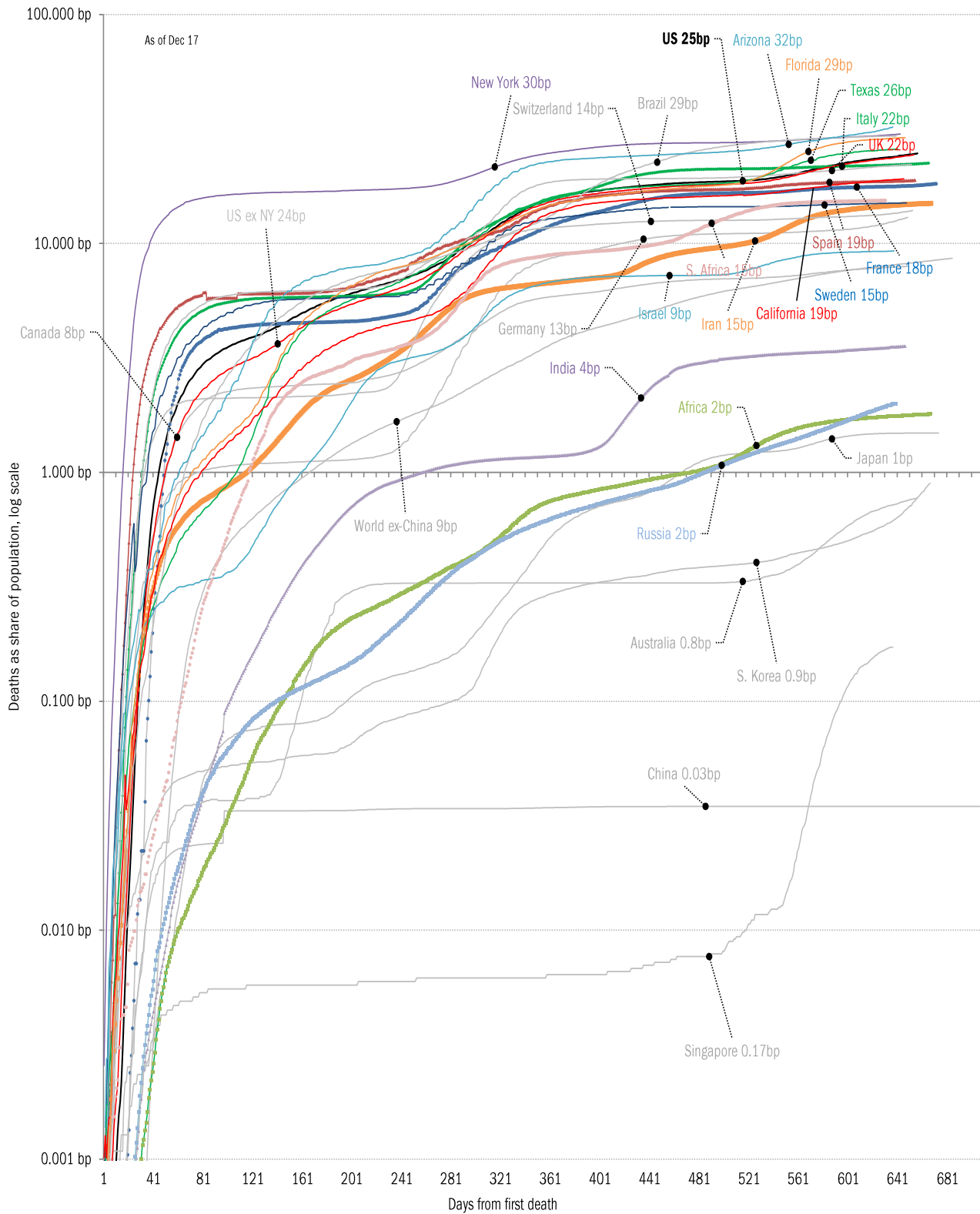
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

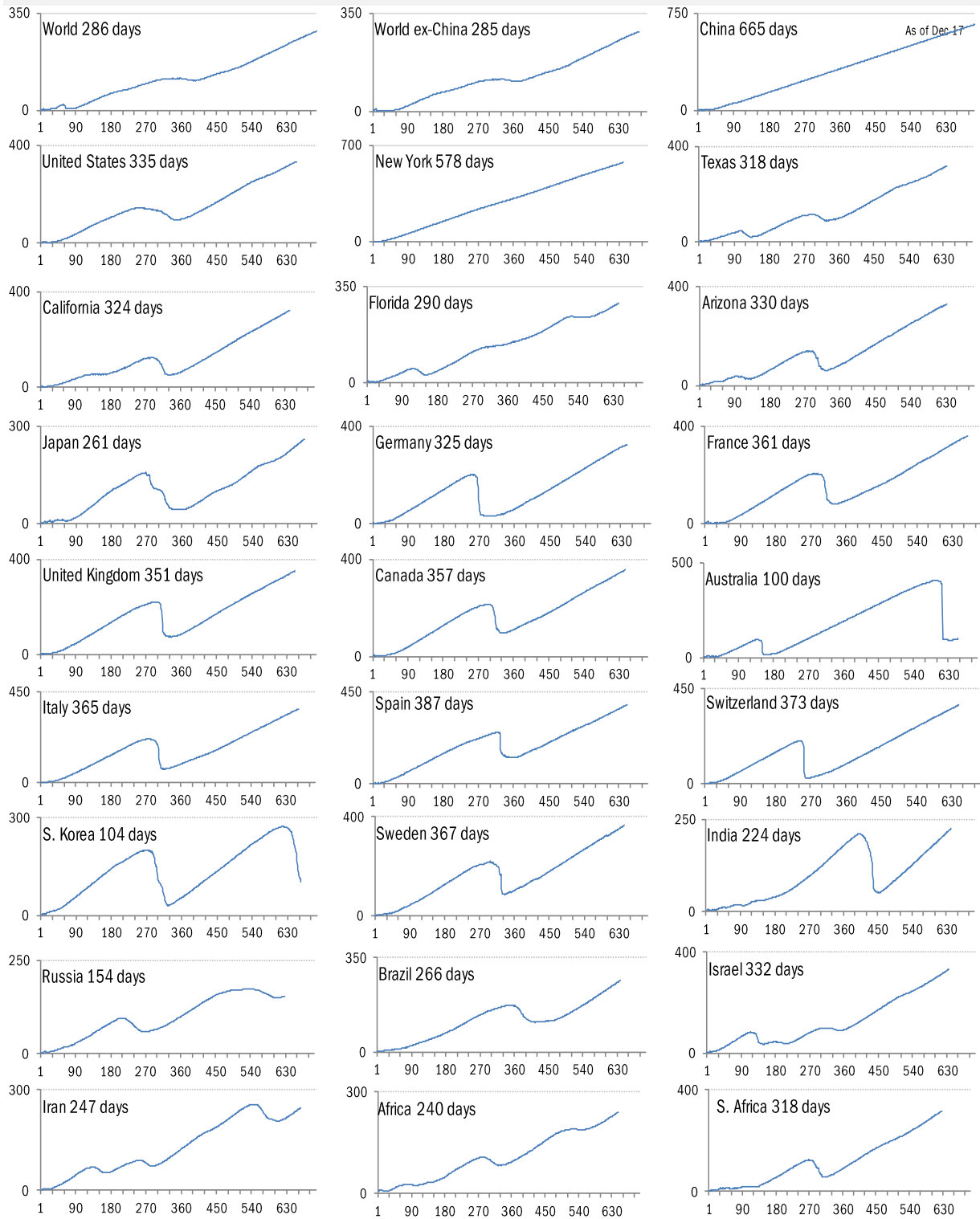


Source: [Johns Hopkins](#), TrendMacro calculations

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

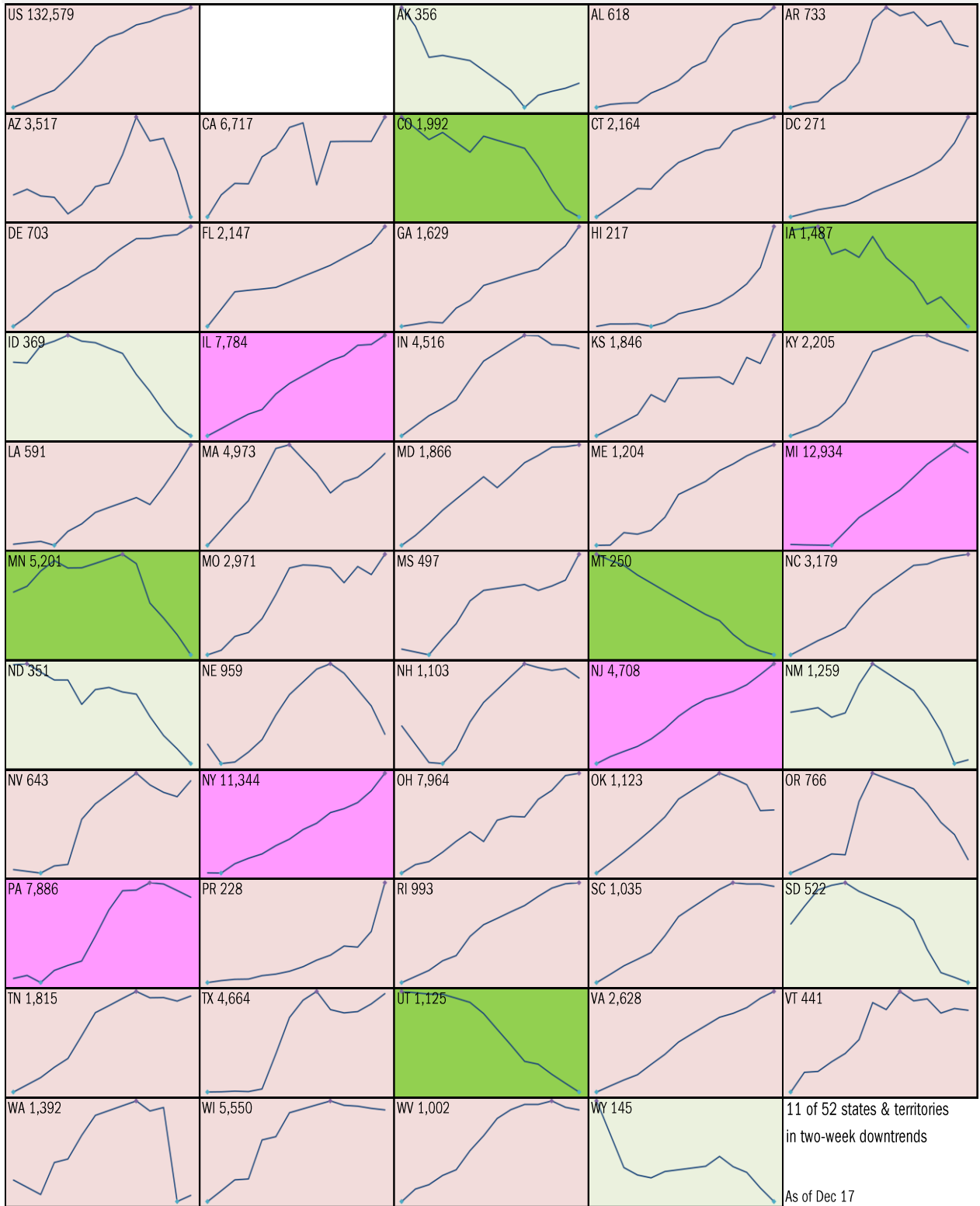
Vertical: days to double deaths Horizontal: days from first death

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread



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

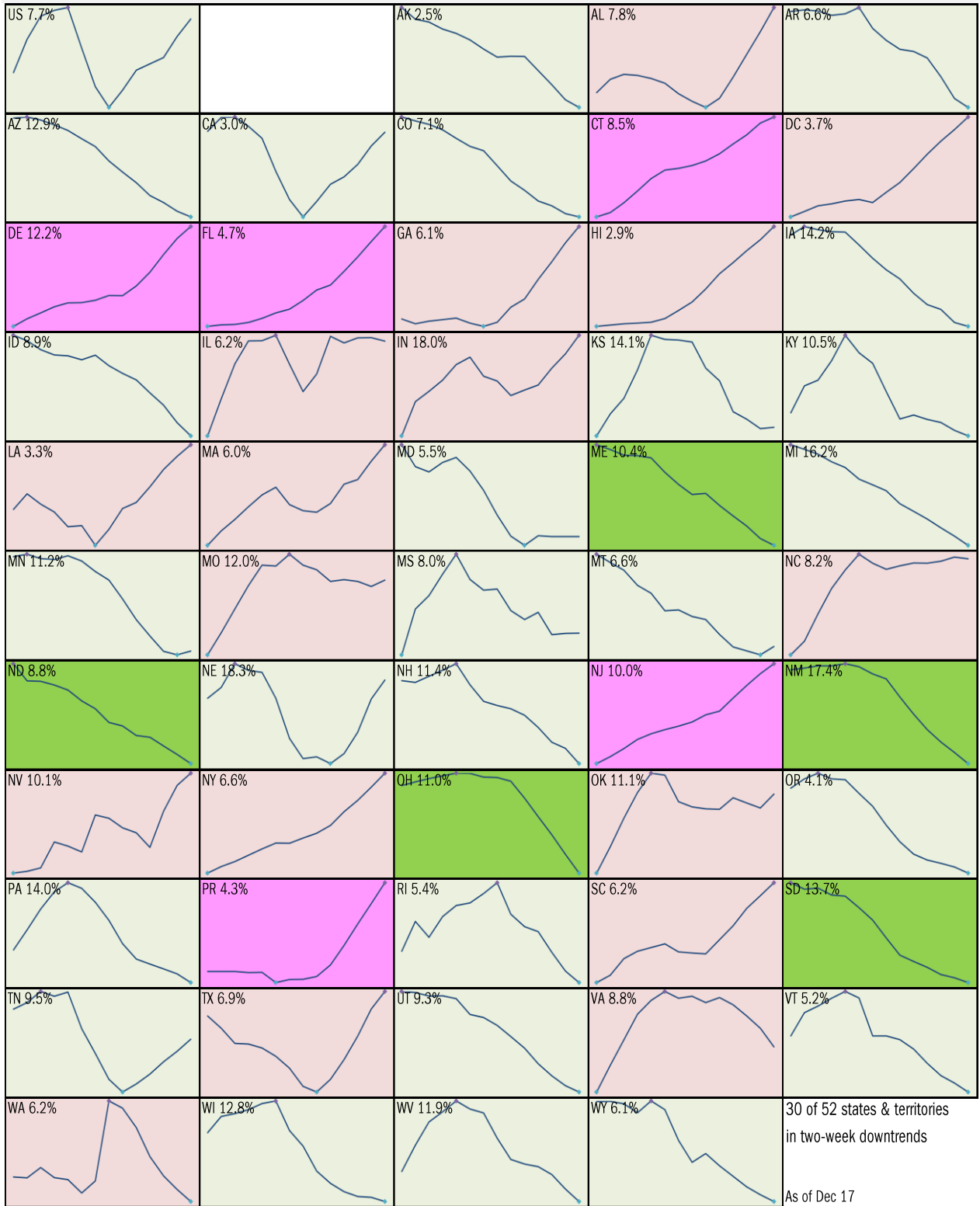
Requirement to [Open Up America Again](#): 14-day "downward trajectory" in new cases
 14-day moving average, last 14 days *Most recent value displayed* ● High ● Low
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

Alt requirement to [Open Up America Again](#): 14-day “downward trajectory” in pos tests

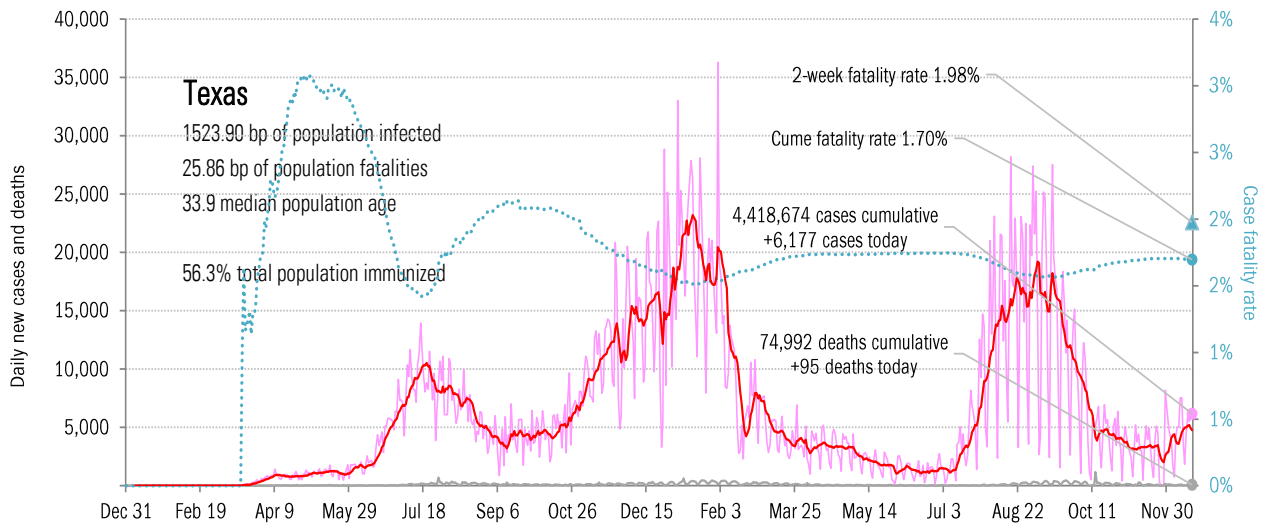
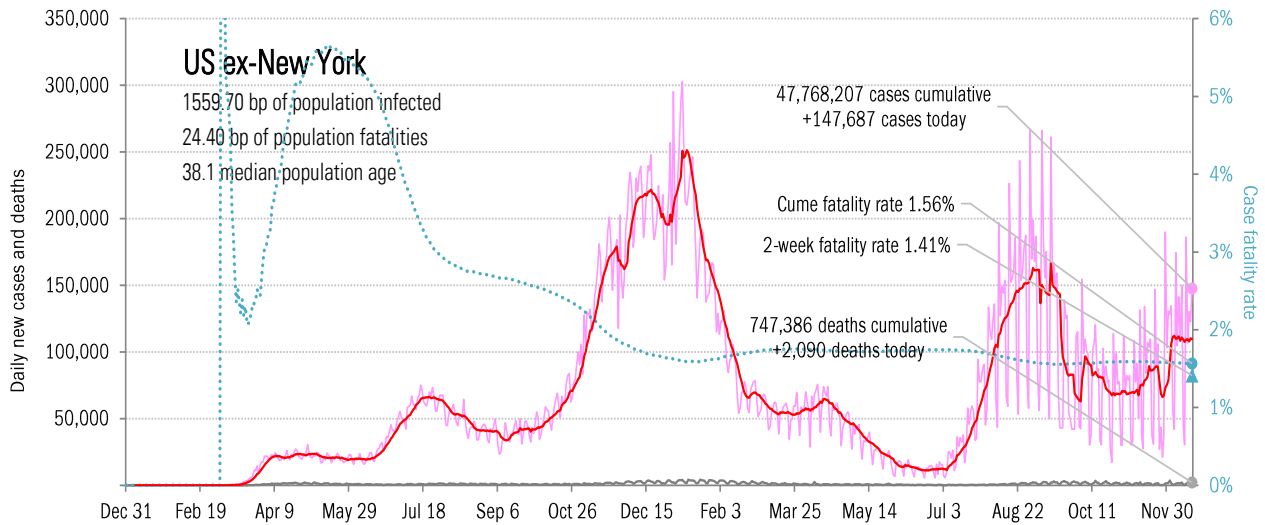
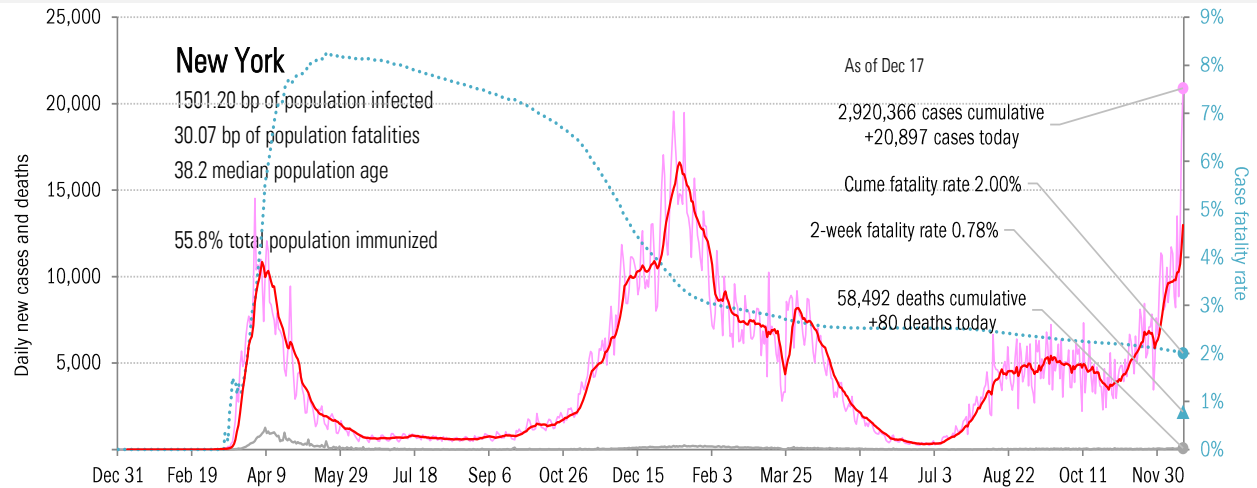
14-day moving average, last 14 days Most recent value displayed ● High ● Low
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

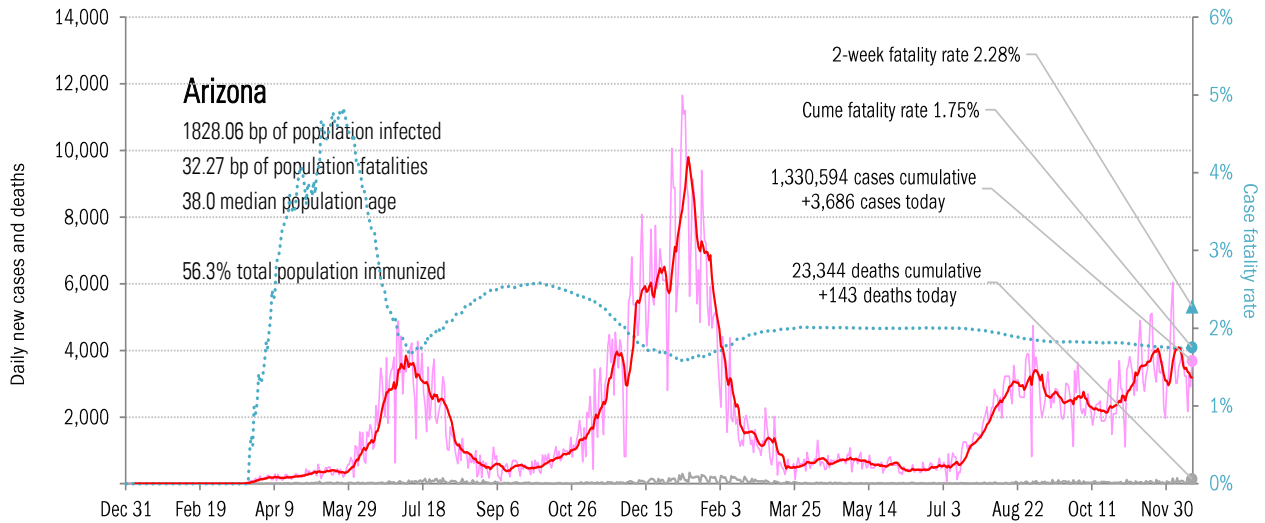
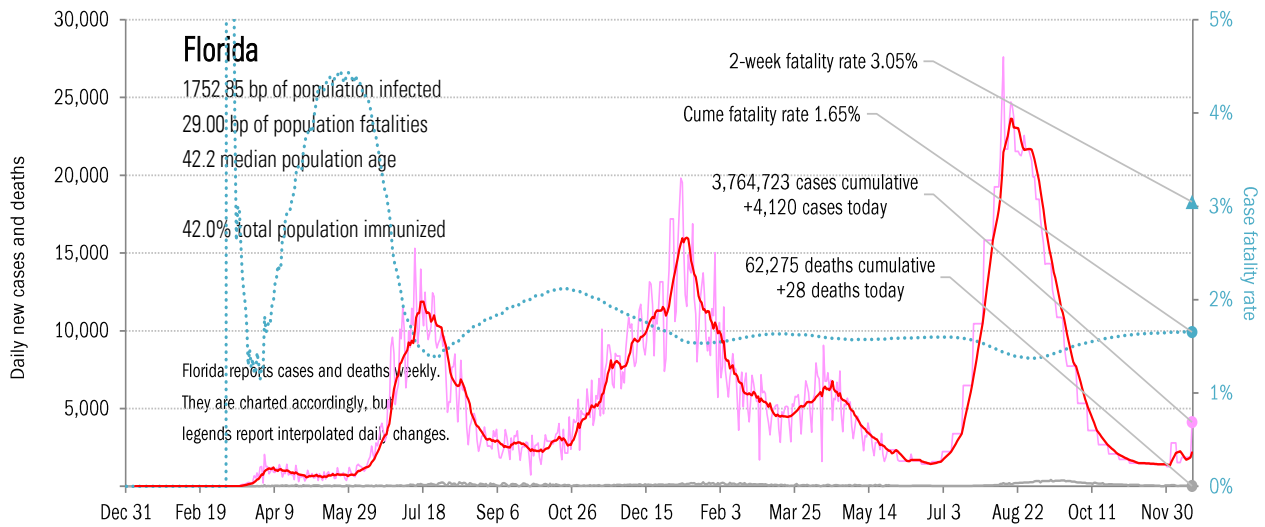
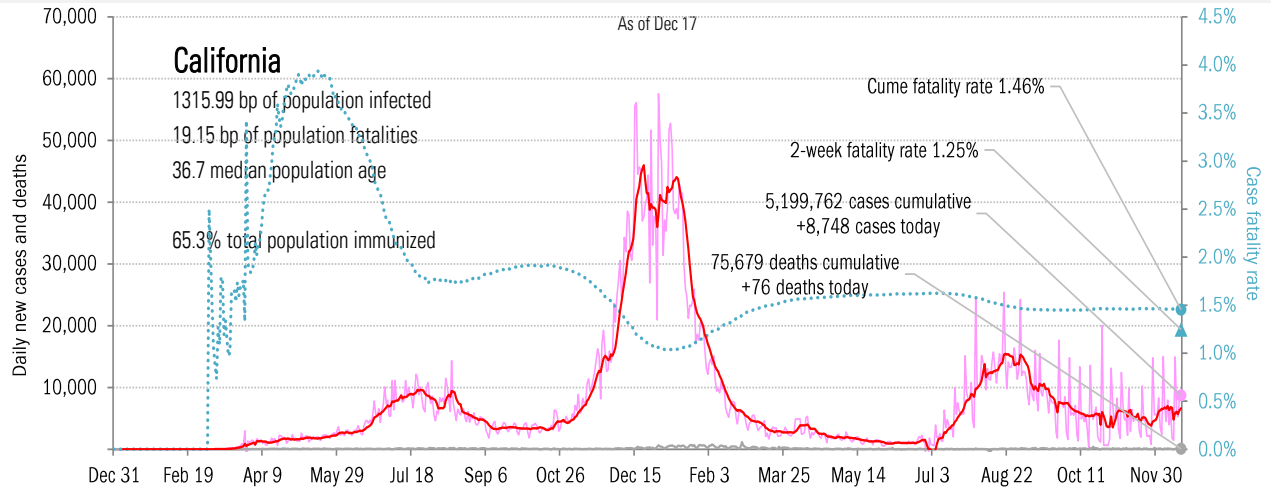
Cases: 7-day average and daily Deaths: Daily



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

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

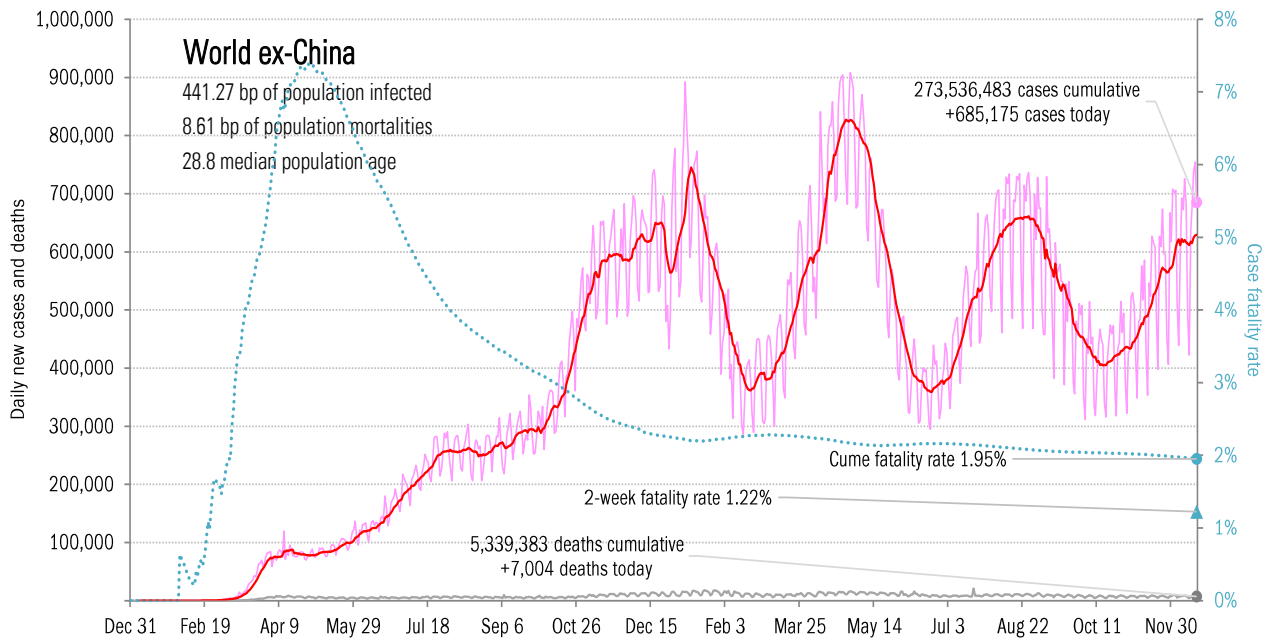
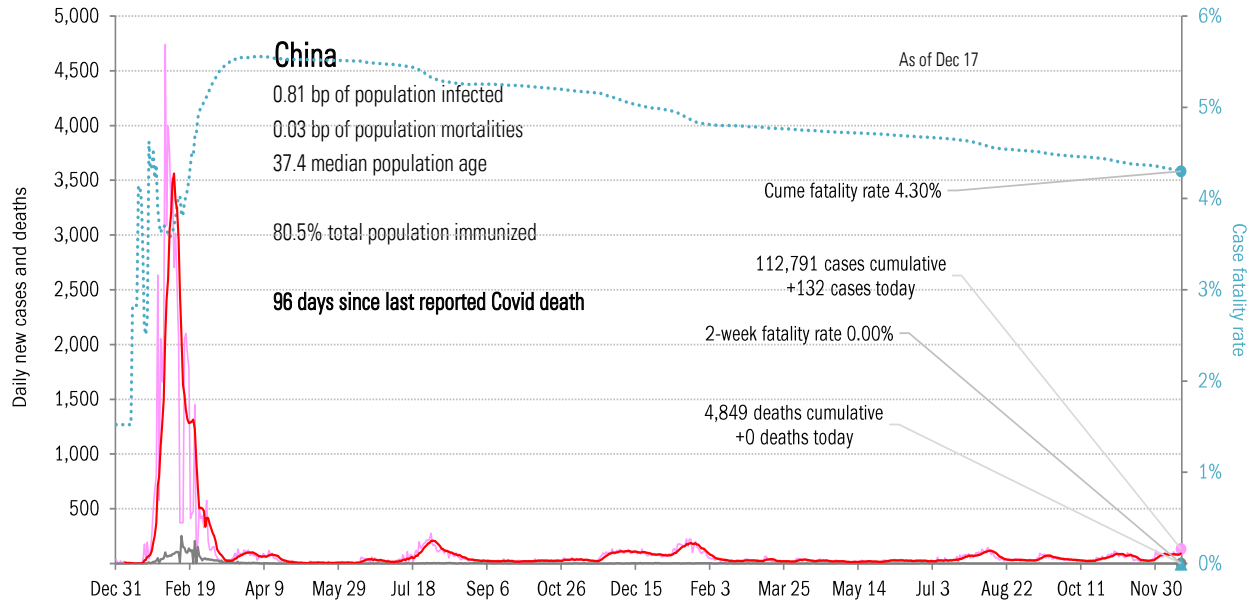
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

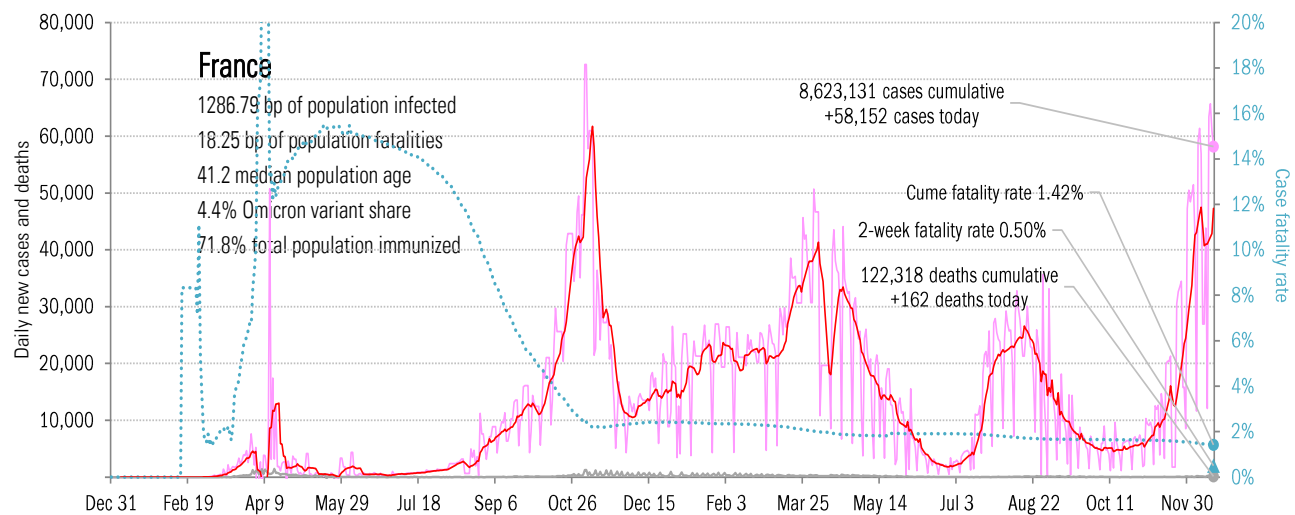
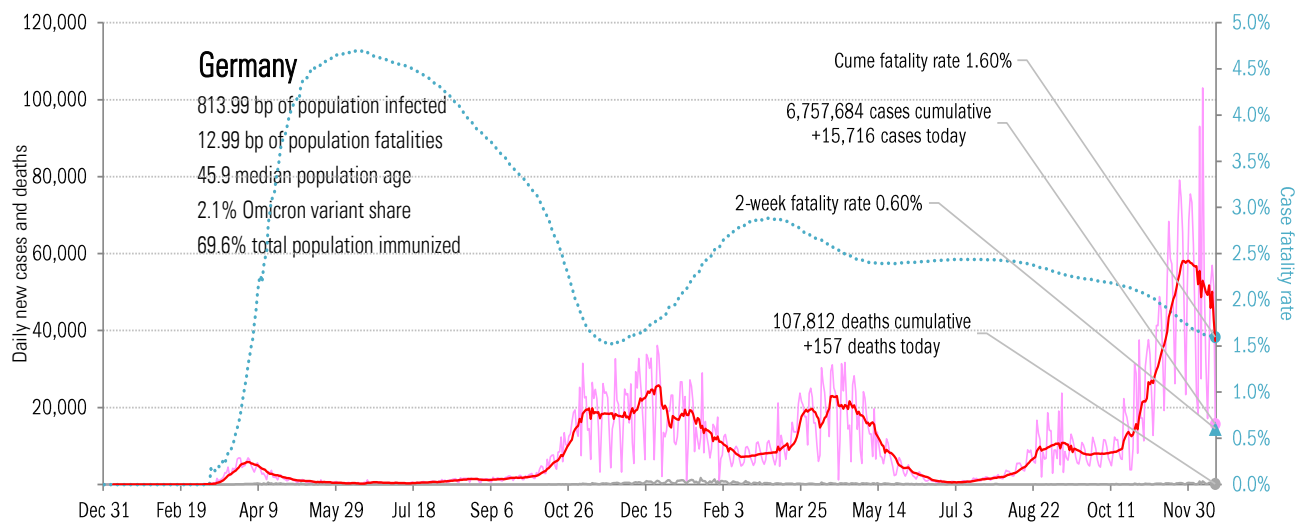
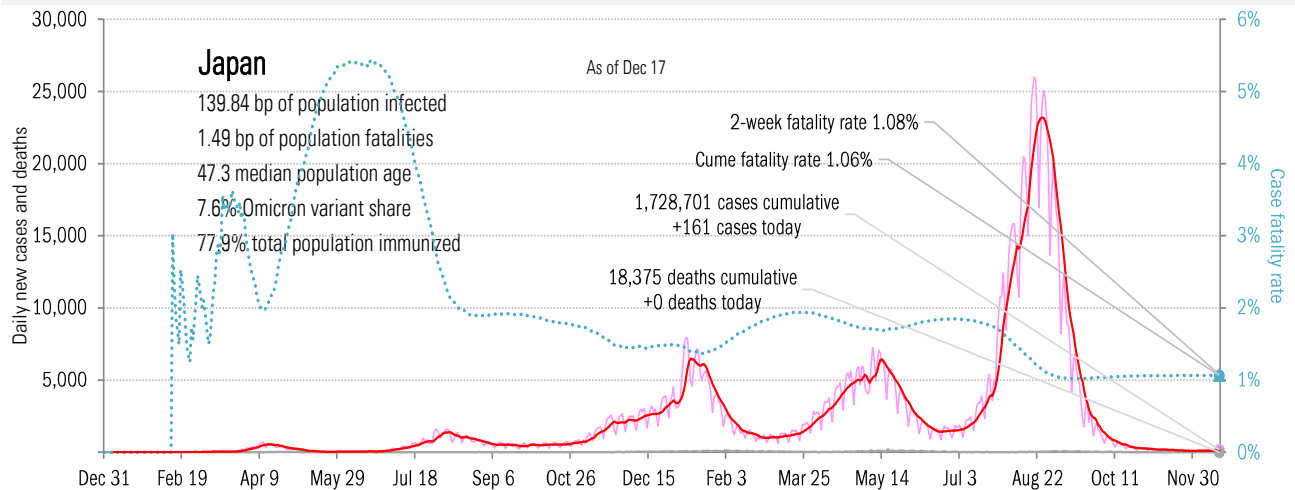
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

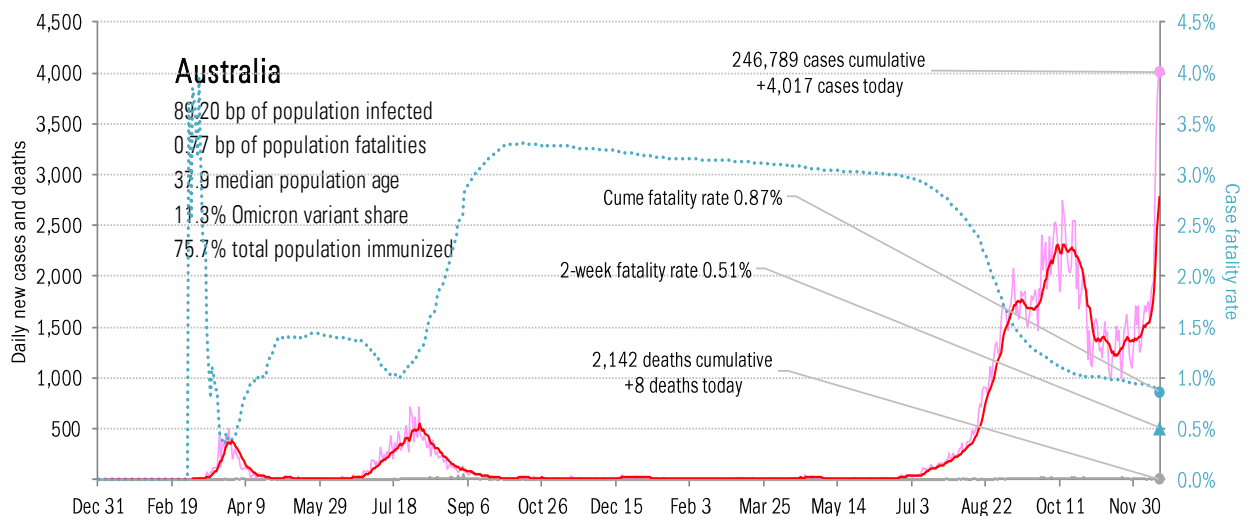
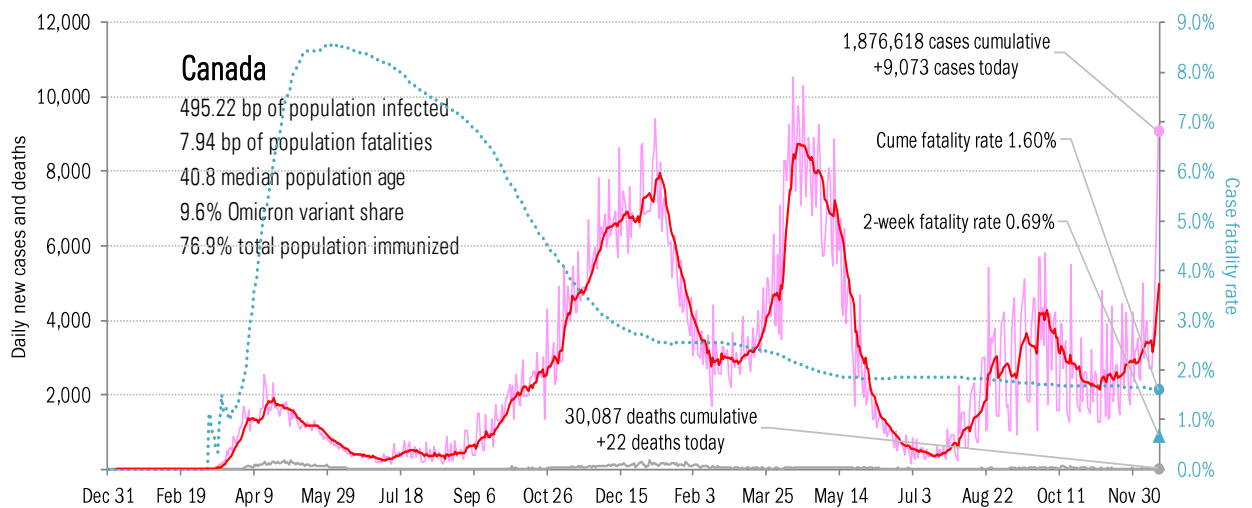
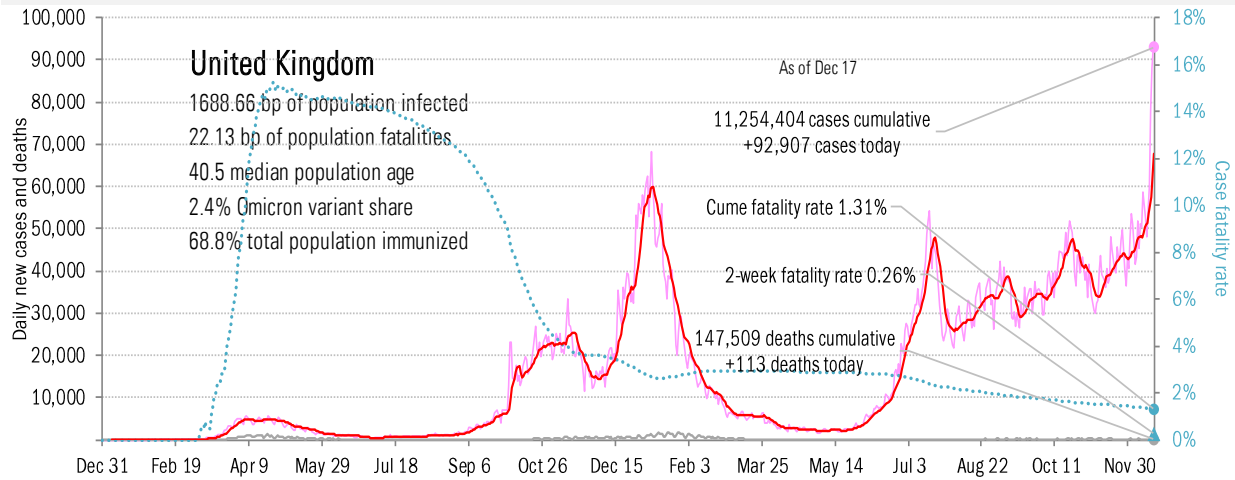
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

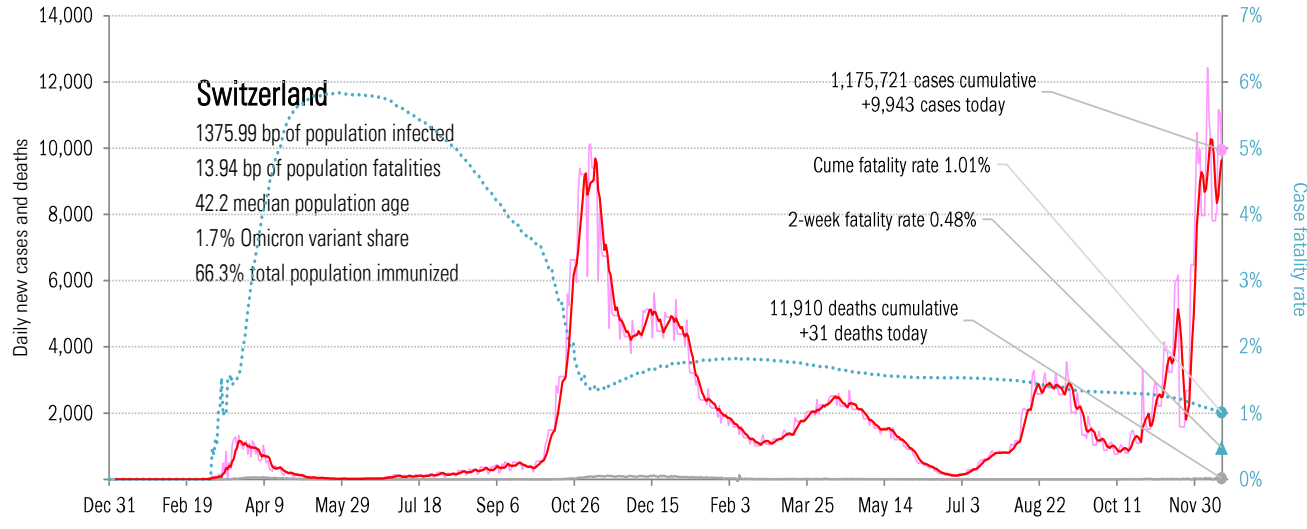
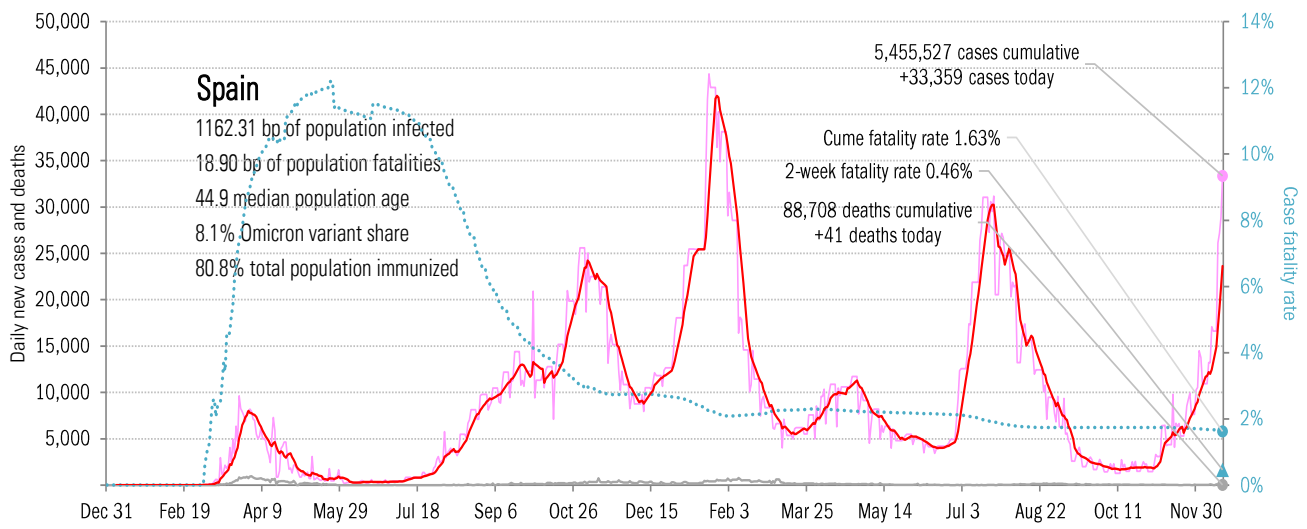
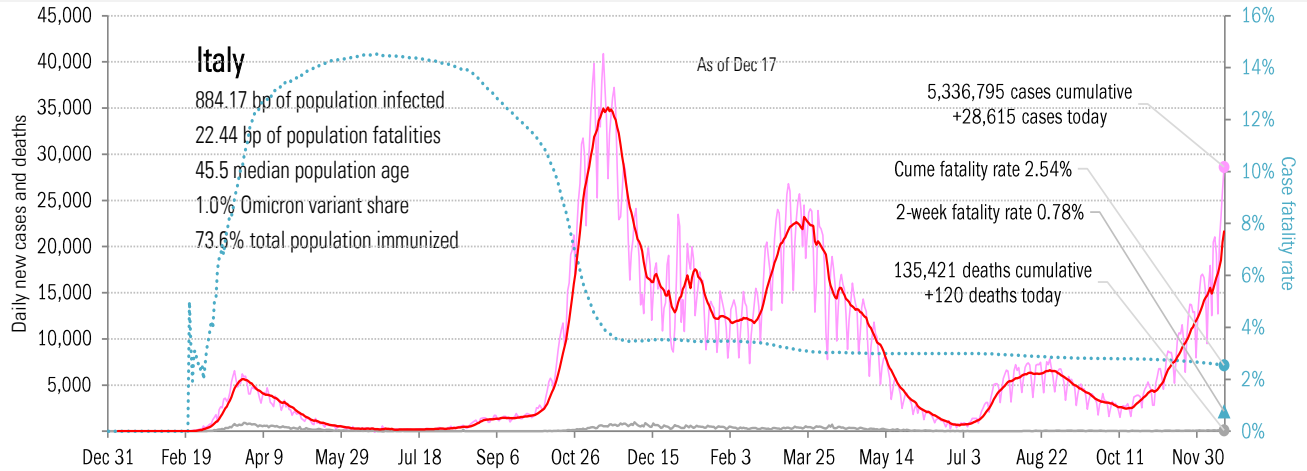
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

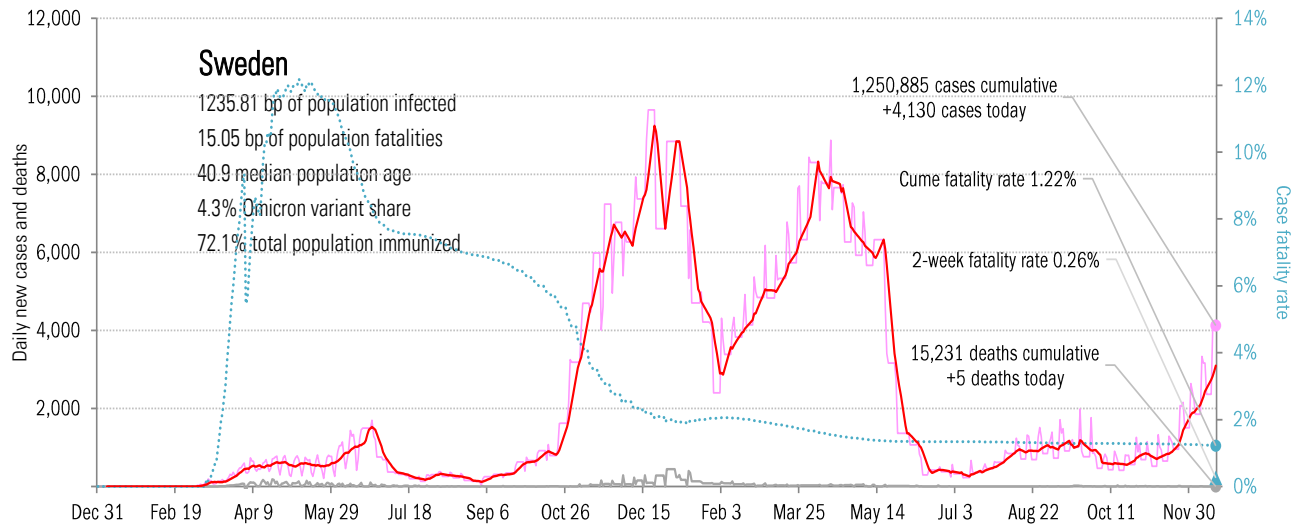
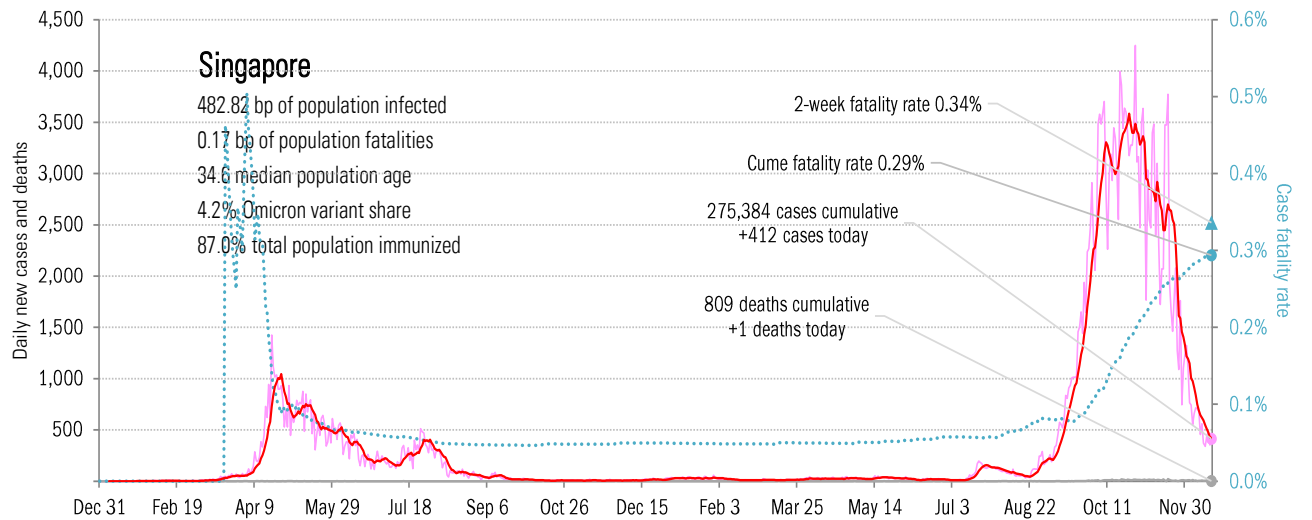
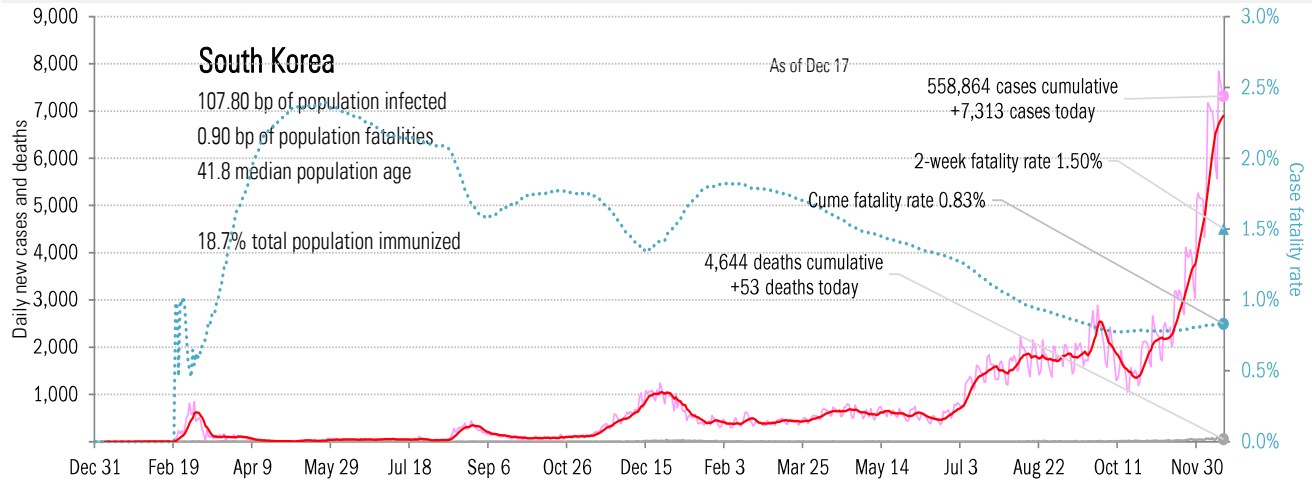
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

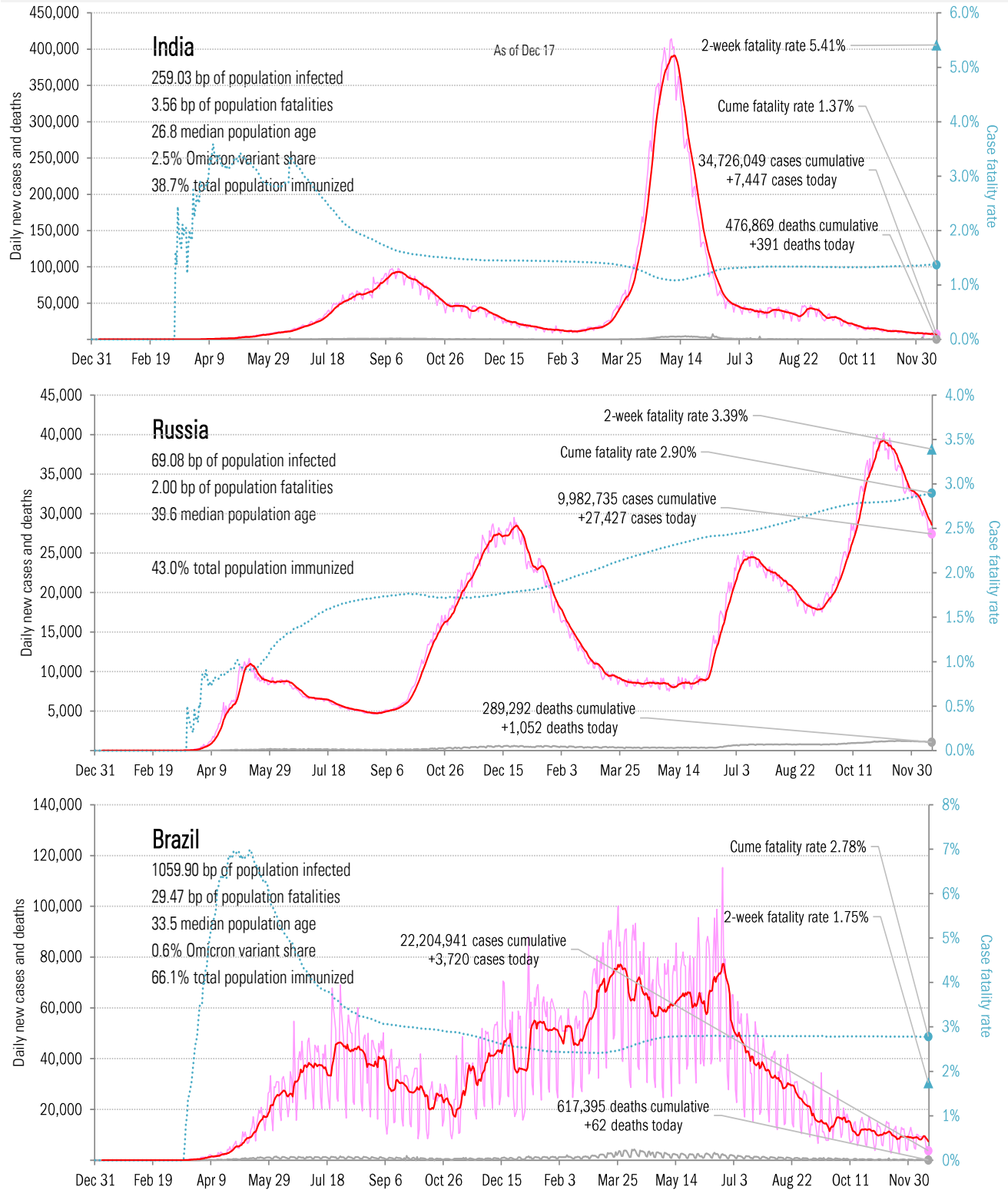
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

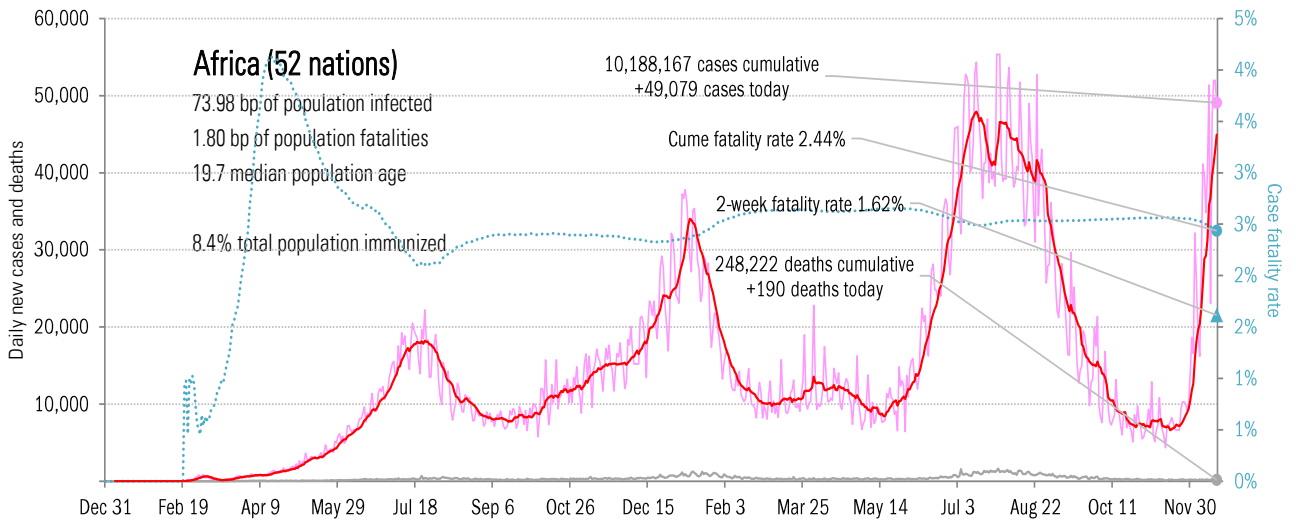
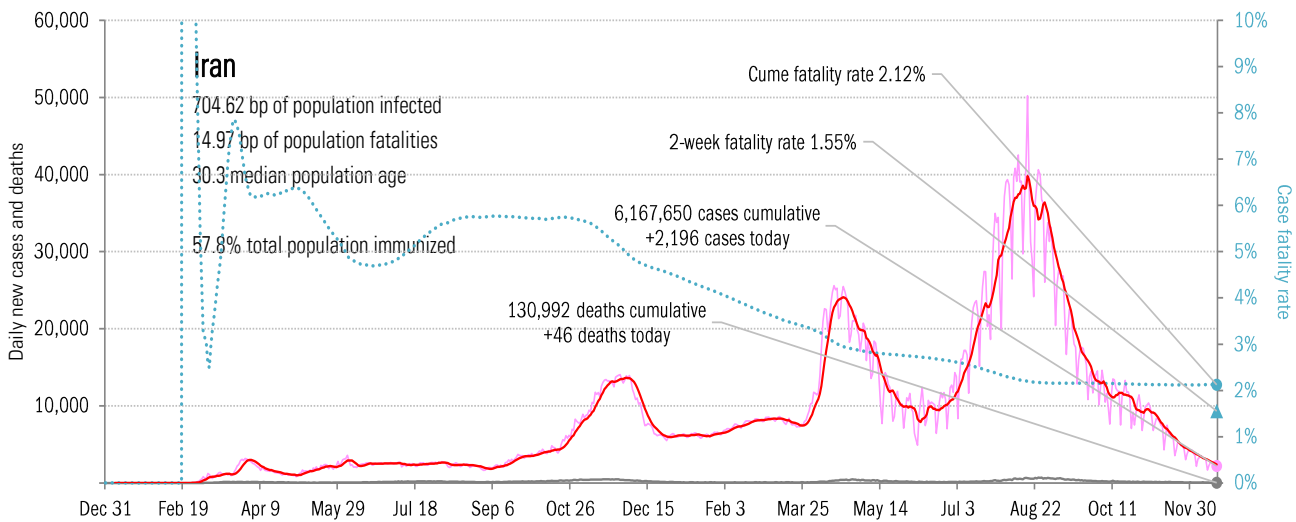
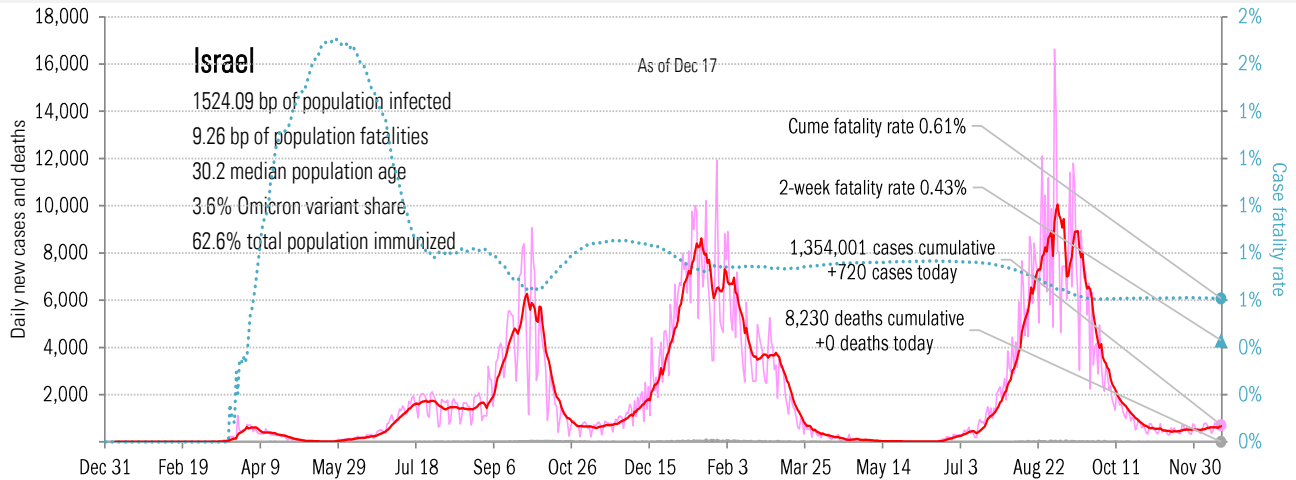
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

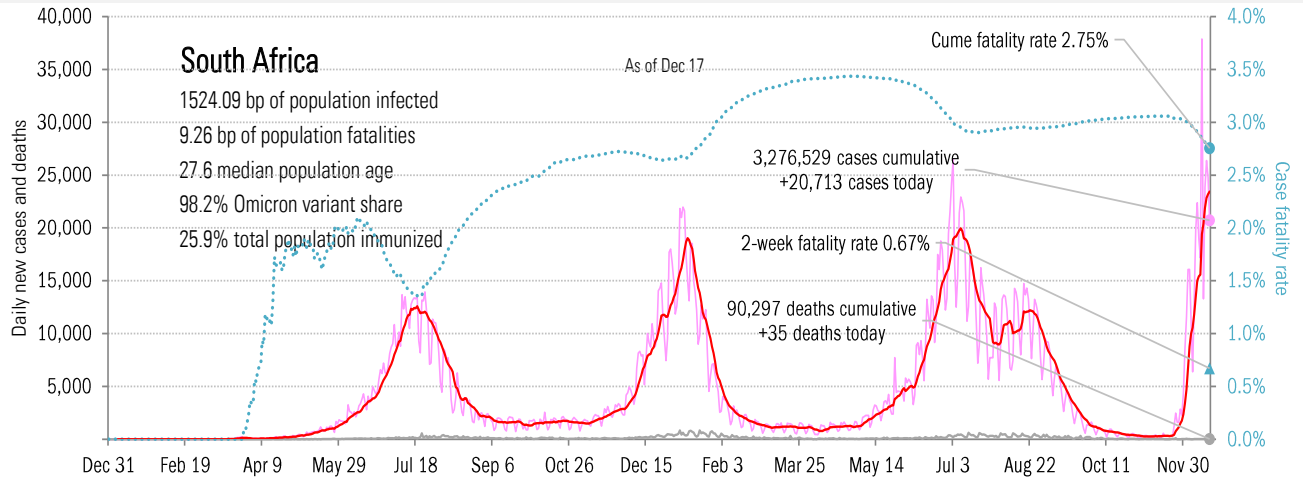
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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