

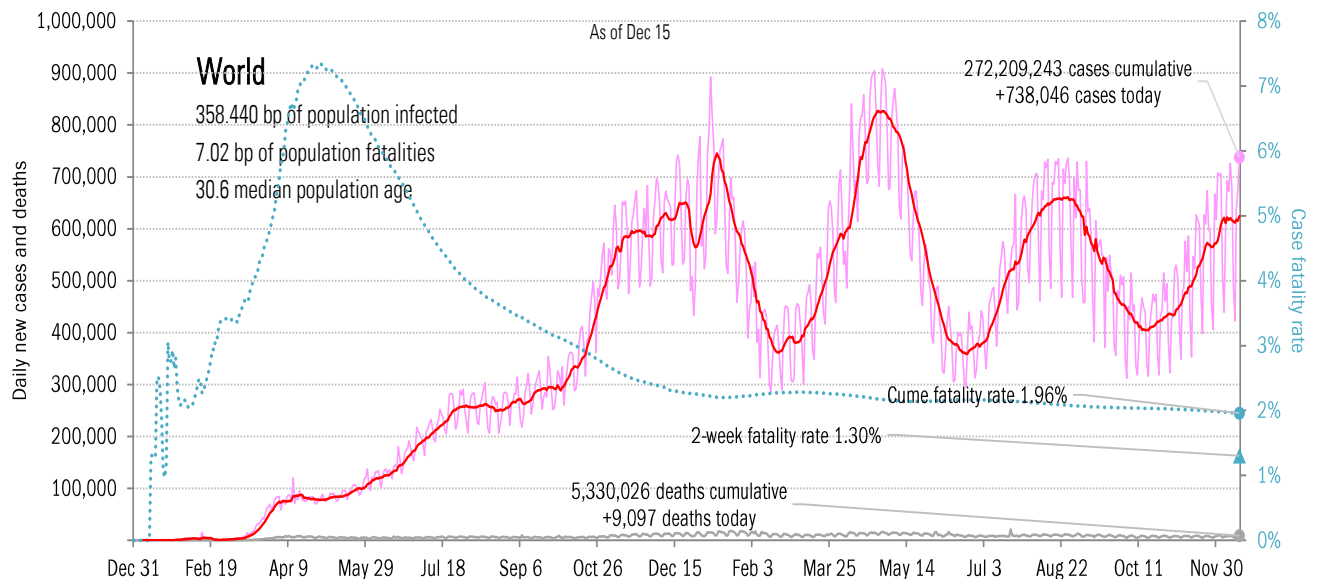
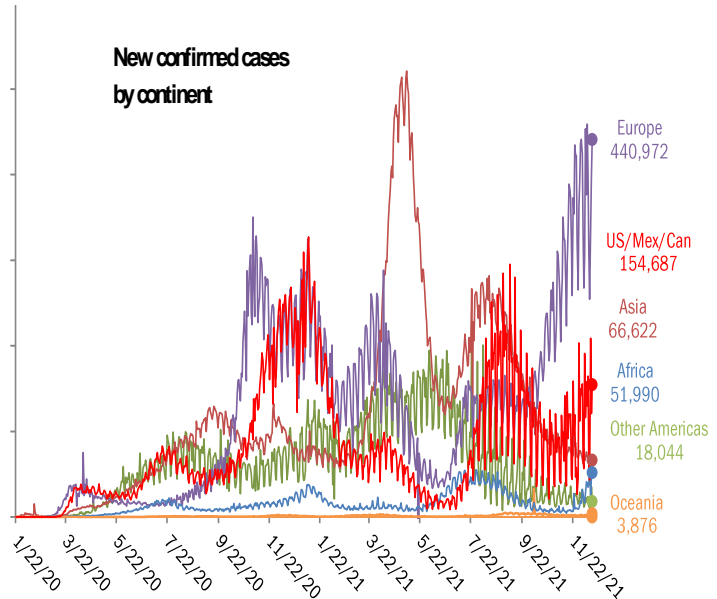
Data Insights: Covid-2019 Monitor

Thursday, December 16, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+143,060	United States	+2,207
United Kingdom	+78,144	Russia	+1,112
France	+65,714	Poland	+669
Germany	+56,902	Germany	+522
Russia	+28,011	Mexico	+467
Spain	+27,140	Ukraine	+386
South Africa	+26,389	India	+343
Poland	+24,264	Brazil	+301
Italy	+23,190	Vietnam	+283
Turkey	+19,872	Turkey	+193
+492,686		+6,483	
World	+738,046	World	+9,097
Top ten	67%	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

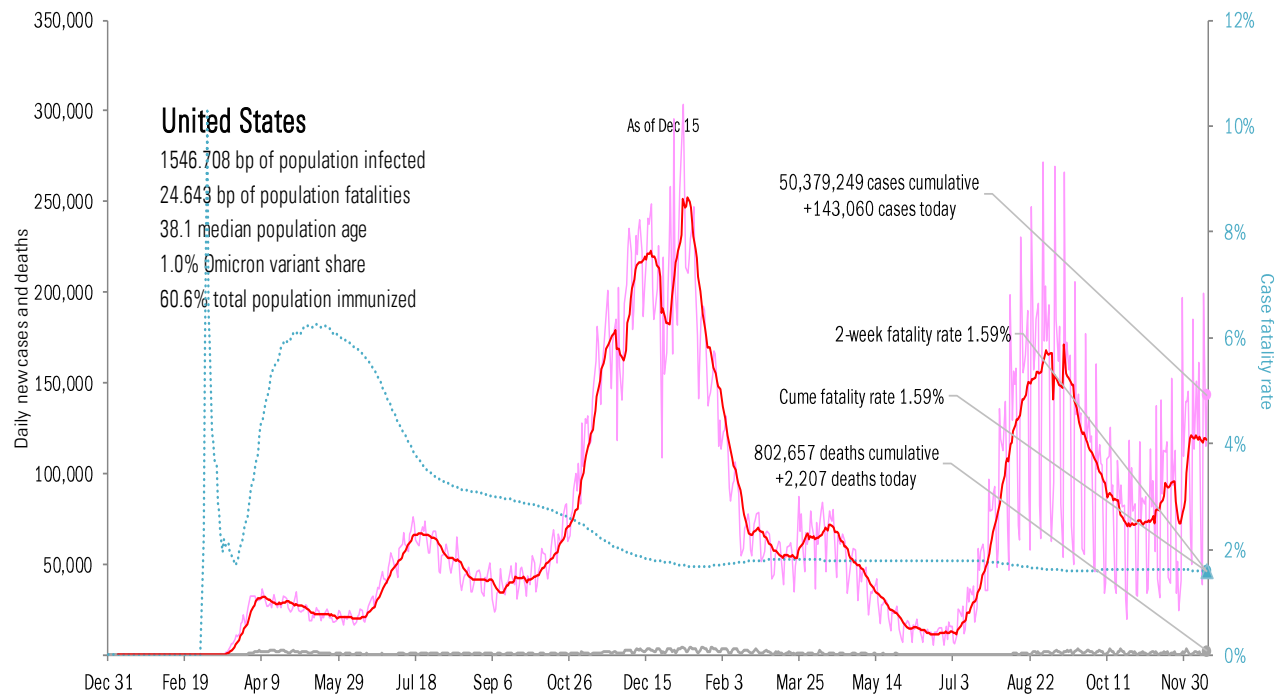
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
MI	+14,382		MI	+379		GA	+82		CA	5,182,686		CA	75,517		TX	390,327		RI	88%	KY	94%
NY	+12,680		PA	+259		IL	+47		TX	4,406,618		TX	74,796		FL	326,421		PA	87%	RI	93%
CH	+10,588		IA	+130		FL	+39		FL	3,758,748		FL	62,221		CA	326,225		MA	86%	NH	91%
IL	+9,784		MO	+110		WI	+38		NY	2,881,565		NY	58,368		NY	179,487		AZ	85%	VT	90%
PA	+7,301		IN	+96		OK	+26		IL	1,921,433		PA	34,990		GA	165,266		MI	85%	NM	89%
MA	+5,763		CA	+89		CT	+23		PA	1,857,879		GA	30,901		CH	144,164		WV	84%	MO	89%
TX	+5,501		TX	+89		SC	+23		CH	1,807,539		IL	29,446		PA	134,731		WA	84%	PA	88%
CA	+5,291		AZ	+81		NC	+21		GA	1,686,332		NJ	28,643		KY	117,215		MO	83%	AR	88%
MO	+5,282		NY	+81		NJ	+19		MI	1,599,679		CH	27,594		IL	116,968		GA	83%	OK	88%
WI	+5,228		TN	+81		DE	+12		NC	1,580,909		MI	27,459		MI	111,088		ND	82%	MI	86%
+81,800			+1,395			+330			26,683,388			449,935			2,011,892						
All states	+143,060			+2,207			-285		All states	50,379,249			802,657			3,630,096		All states	70%		67%
Top ten	57%			63%			-116%		Top ten	53%			56%			55%		Median	79%		81%

Some states not reporting

Five most improved US states

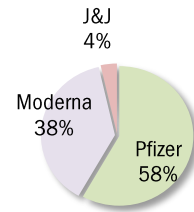
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MN	-6,808	CH	-223	CH	-202	DE	+40 bp
VI	-4,436	AZ	-122	TX	-157	FR	+40 bp
CT	-1,276	FL	-67	CA	-106	MP	+30 bp
AL	-1,008	MA	-34	PA	-99	MS	+30 bp
FL	-997	CO	-30	MO	-94	CT	+20 bp



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	501,271,466	+1.751 million	US	60.6%	72.3%
Boosters	56,981,143	+0.973 million	UK	68.7%	75.3%
	One dose	% Pop	Immune	% pop	New immune today
Total population	245,906,238	73%	207,963,551	62%	+0.348 million
Age 12 to 17	14,939,304	63%	12,546,149	53%	+0.020 million
Age 18 to 64	166,446,092	82%	142,045,558	70%	+0.136 million
Age 65 and over	57,859,347	100%	49,461,563	90%	+0.024 million



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

Every American >18 immunized in **62 days** by Feb 14, 2022
 74.0% of population >18 immunized
 17.7% previously tested positive
91.7% vs 60% adult herd immunity

France	71.4%	77.5%
Spain	80.8%	82.5%
Germany	69.3%	72.3%
Italy	73.5%	79.0%
Australia	75.3%	78.6%
Israel	62.5%	69.2%
Canada	76.8%	82.2%
Japan	77.9%	79.4%
Africa	8.3%	12.8%
India	38.0%	59.0%
Brazil	65.8%	77.2%
China	80.5%	84.8%

Global data differs due to sources, timing

AK
64.2%
55.7%

WI
67.1%
61.1%

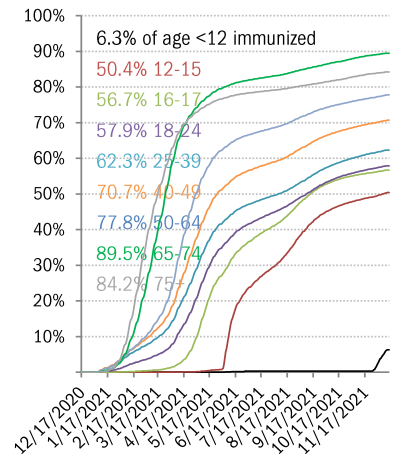
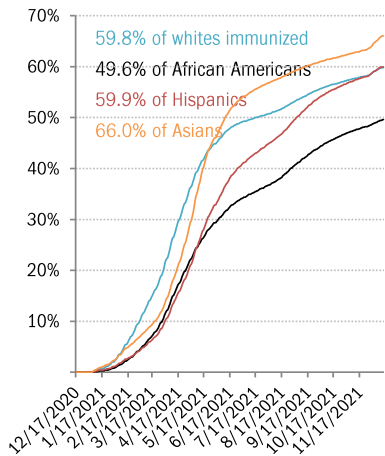
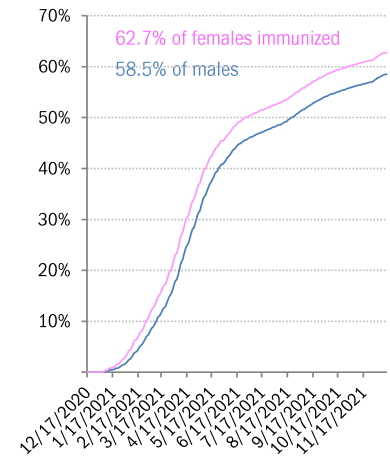
As of Dec 15

ME
84.1%
74.7%

WA: 74.3% / 66.9%	ID: 51.6% / 45.8%	MT: 61.1% / 53.1%	ND: 61.2% / 51.8%	MN: 70.4% / 64.5%	IL: 71.1% / 63.5%	MI: 62.4% / 56.0%	NY: 81.4% / 70.7%	VT: 87.6% / 75.8%	NH: 93.5% / 66.2%	
OR: 72.9% / 65.6%	NV: 68.0% / 55.7%	WY: 54.9% / 46.7%	SD: 69.3% / 56.1%	IA: 63.9% / 58.2%	IN: 56.9% / 51.5%	OH: 59.6% / 54.5%	PA: 84.3% / 60.5%	NJ: 81.5% / 69.5%	MA: 88.3% / 73.5%	
CA: 80.9% / 65.0%	UT: 66.2% / 57.4%	CO: 73.2% / 65.2%	NE: 65.4% / 59.0%	MO: 61.3% / 52.3%	KY: 61.5% / 53.5%	WV: 89.4% / 71.4%	VA: 77.4% / 67.0%	MD: 78.7% / 69.5%	CT: 86.6% / 73.9%	RI: 86.2% / 75.2%
	AZ: 66.0% / 56.1%	NM: 78.9% / 65.3%	KS: 67.9% / 56.1%	AR: 61.7% / 50.4%	TN: 57.9% / 50.5%	NC: 73.4% / 55.7%	SC: 61.6% / 52.4%	DC: 85.2% / 66.4%	DE: 75.2% / 63.2%	
			OK: 64.6% / 52.7%	LA: 56.6% / 49.7%	MS: 55.0% / 47.8%	AL: 57.7% / 47.0%	GA: 60.2% / 50.2%			
			TX: 65.5% / 56.1%					FL: 73.2% / 62.6%		PR: 87.0% / 75.6%

HI
83.7%
62.6%

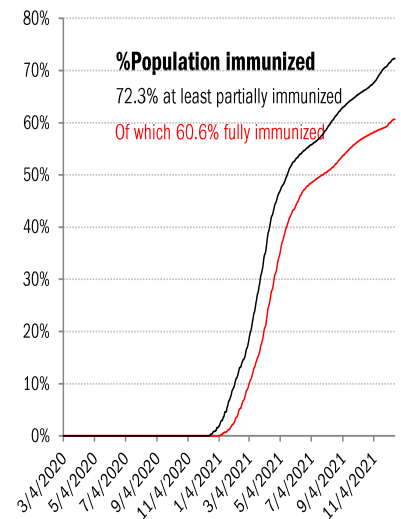
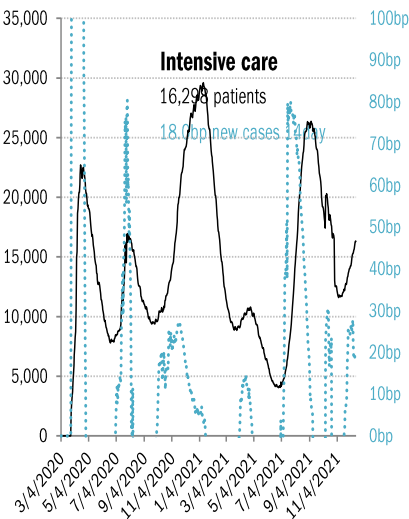
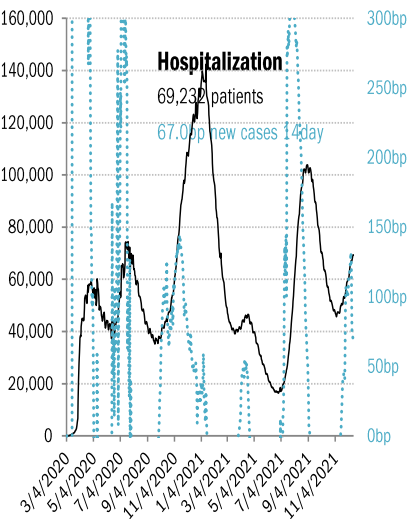
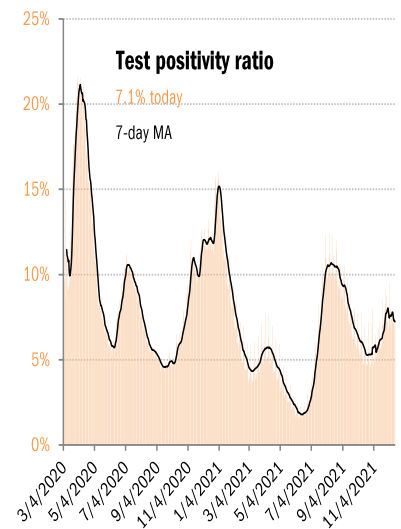
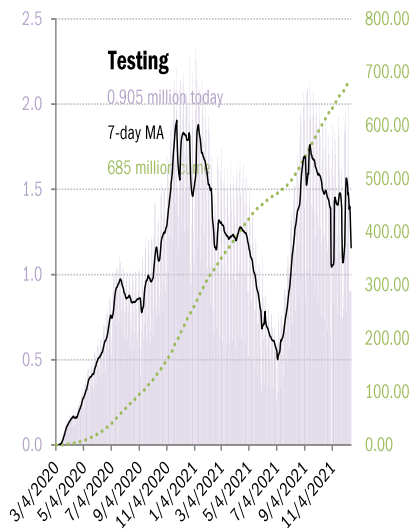
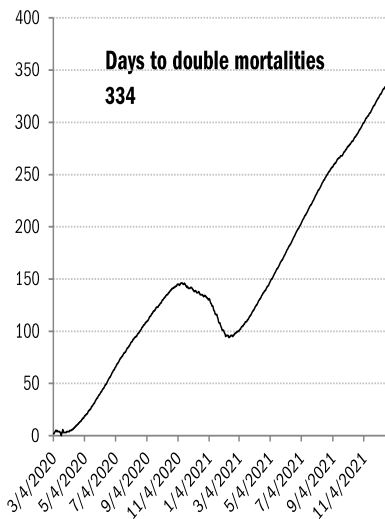
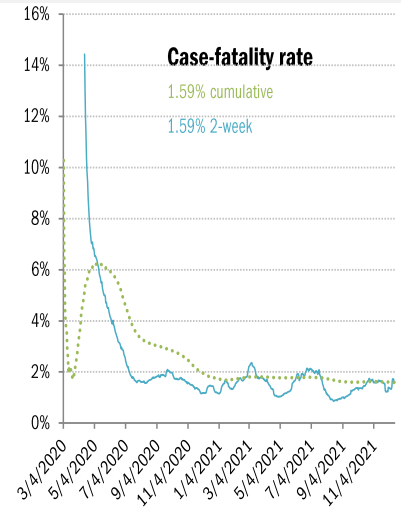
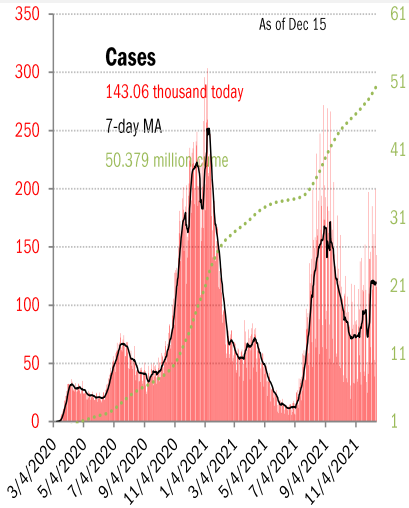
The demographics of US vaccination



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

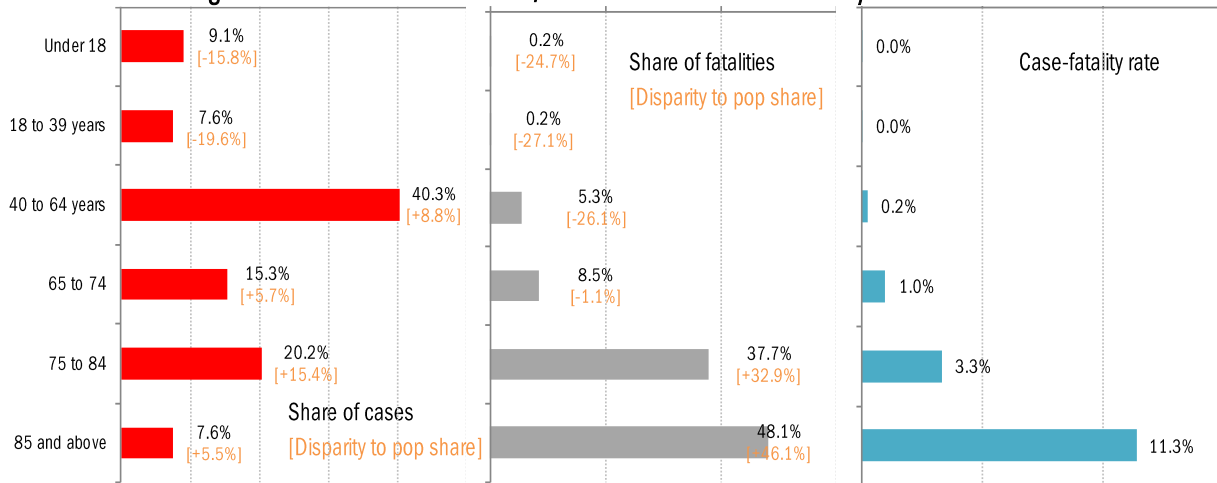
US deep-dive

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

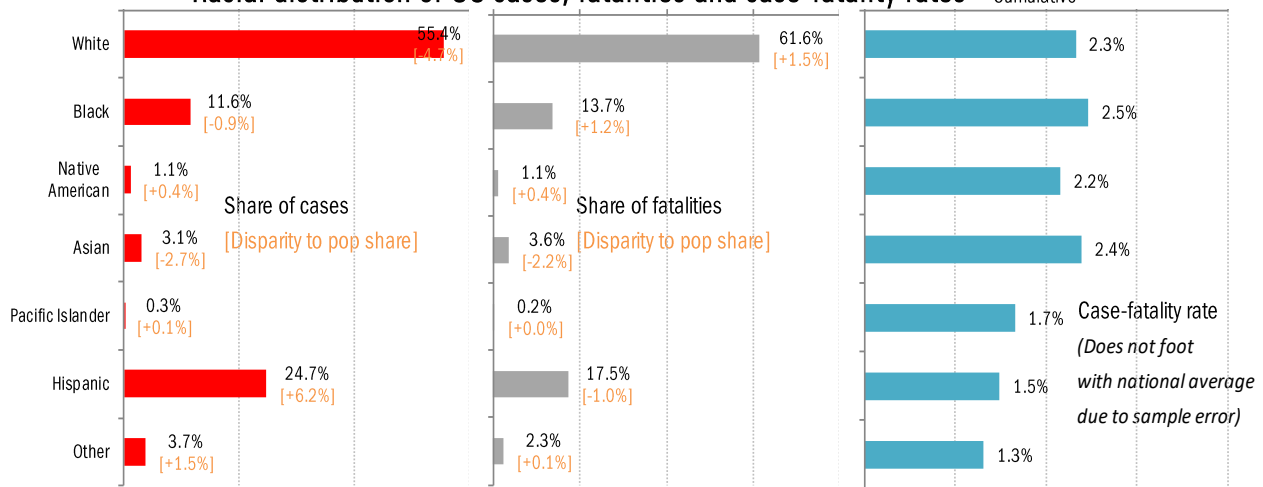


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

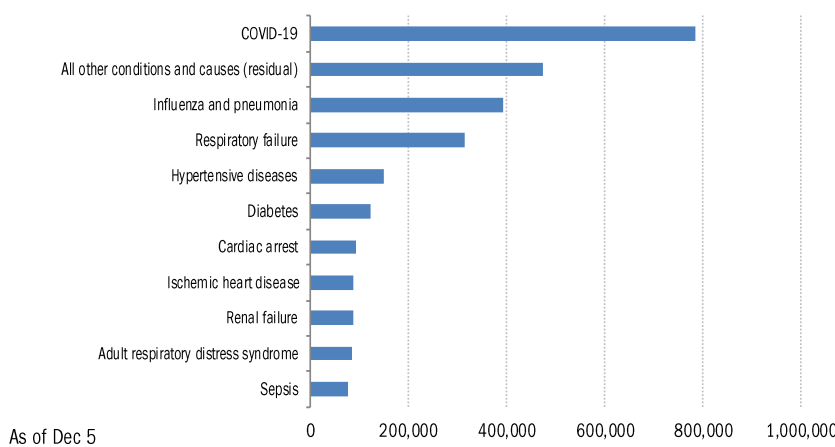


Racial distribution of US cases, fatalities and case-fatality rates



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

[Andrew Cuomo ordered to return \\$5.1M pandemic book profits to state](#)

Carl Campanile and Bernadette Hogan
New York Post
December 14, 2021

[New Fauci-Zuckerberg Emails Reveal Offer of 'Data Reports' To Aid Lockdown Policies, Vaccine Development.](#)

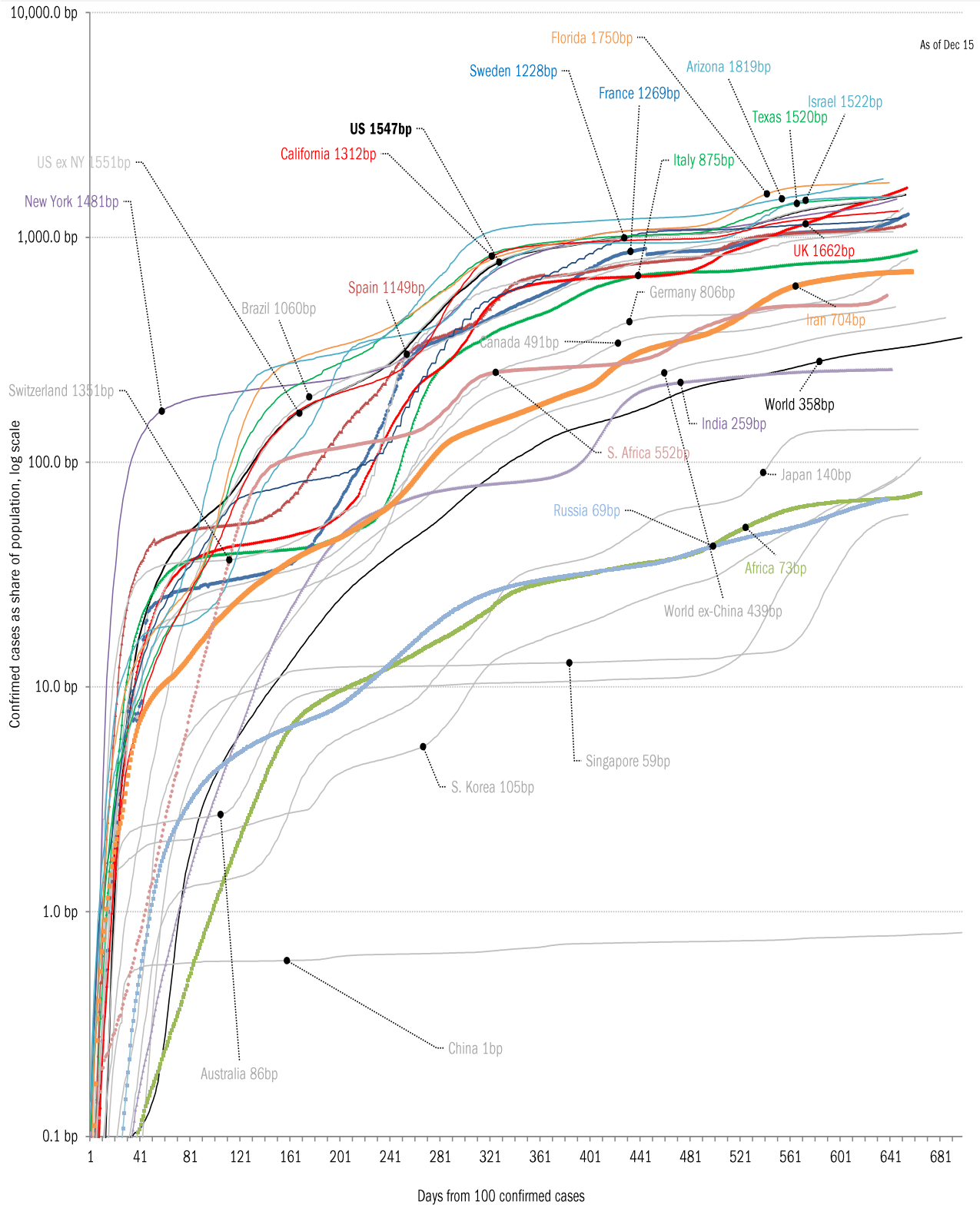
Natalie Winters and Raheem J. Kassam
National Pulse
December 14, 2021

Meme of the day



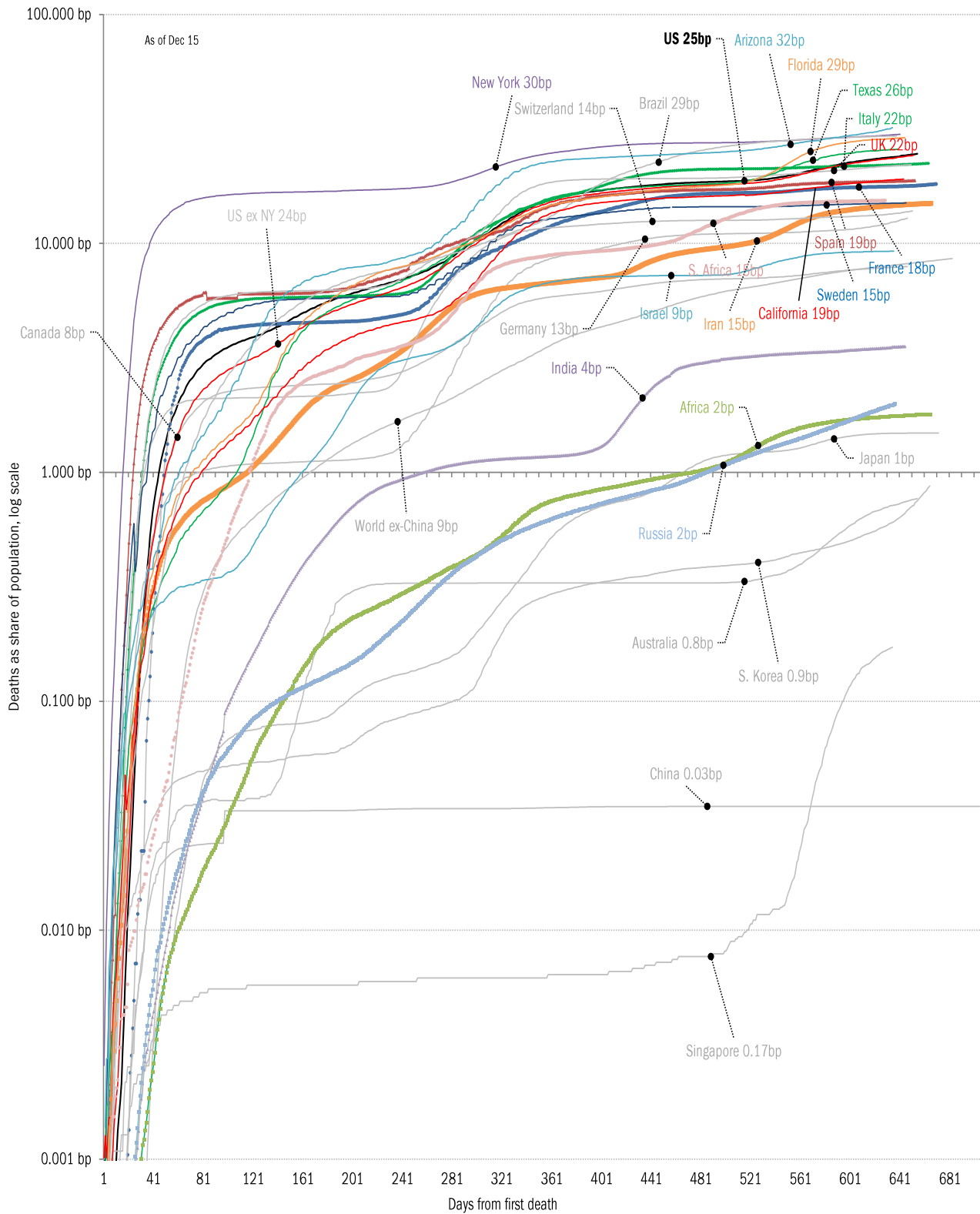
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

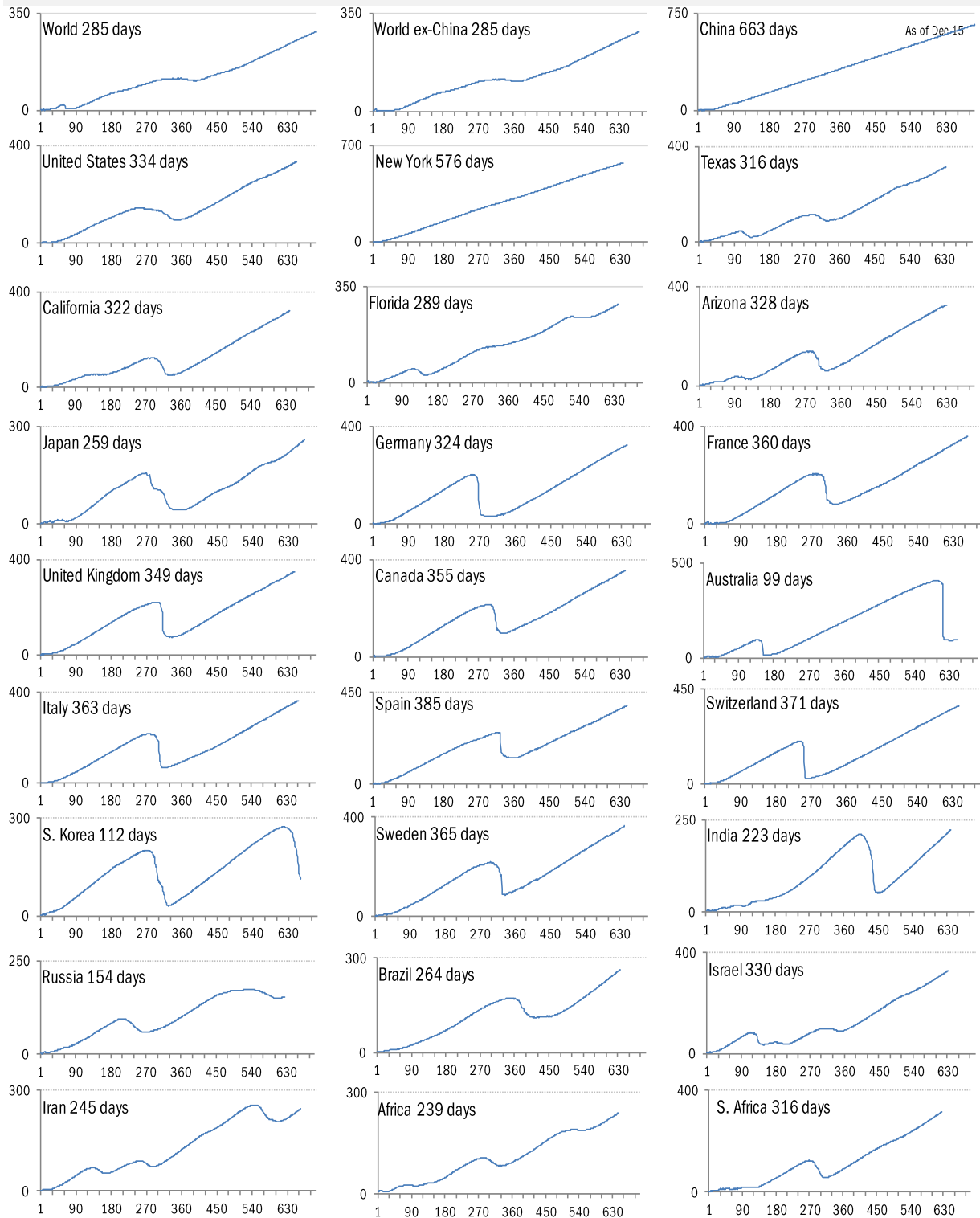


Source: [Johns Hopkins](#), TrendMacro calculations

"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

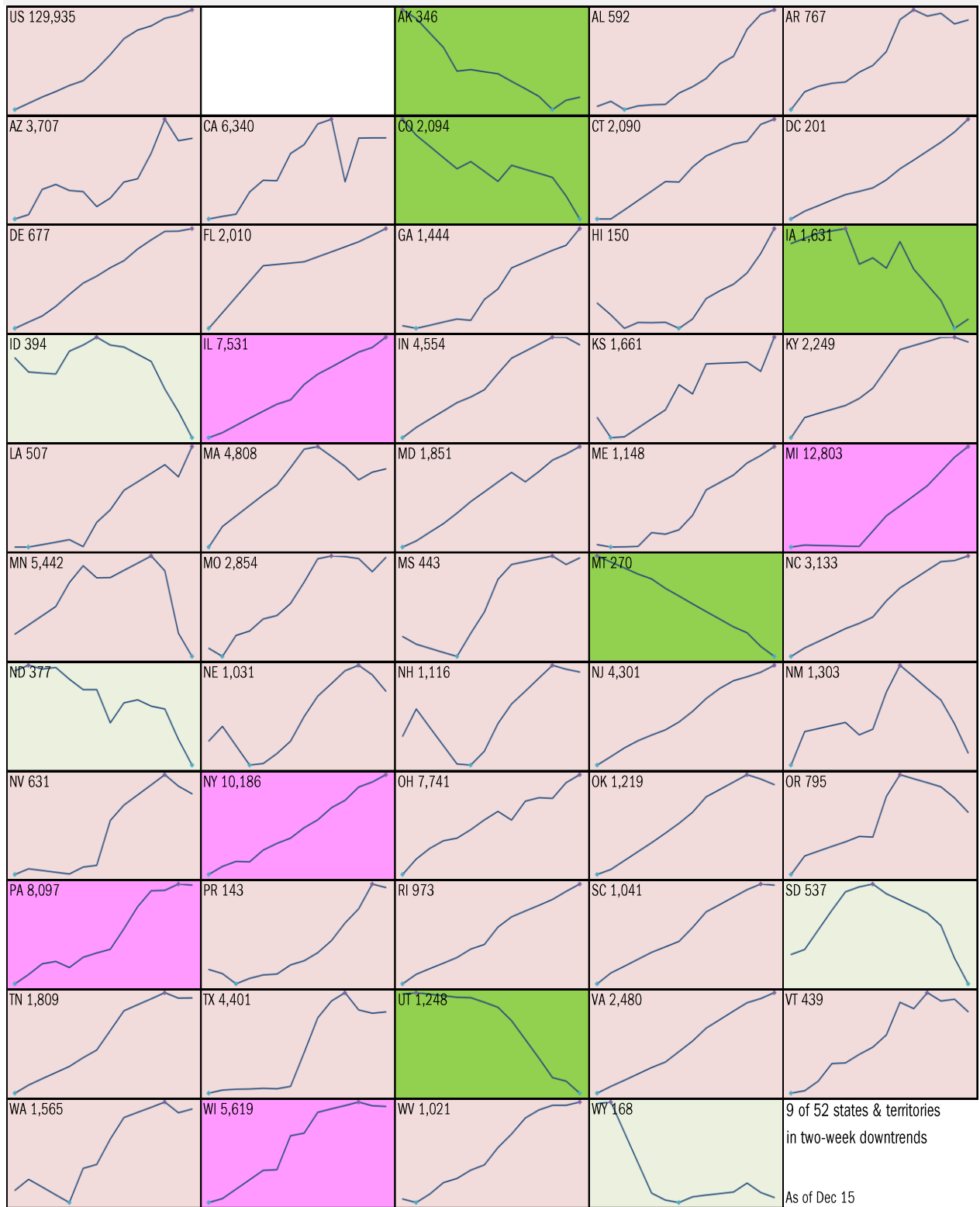


Source: [Johns Hopkins](#), TrendMacro calculations

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

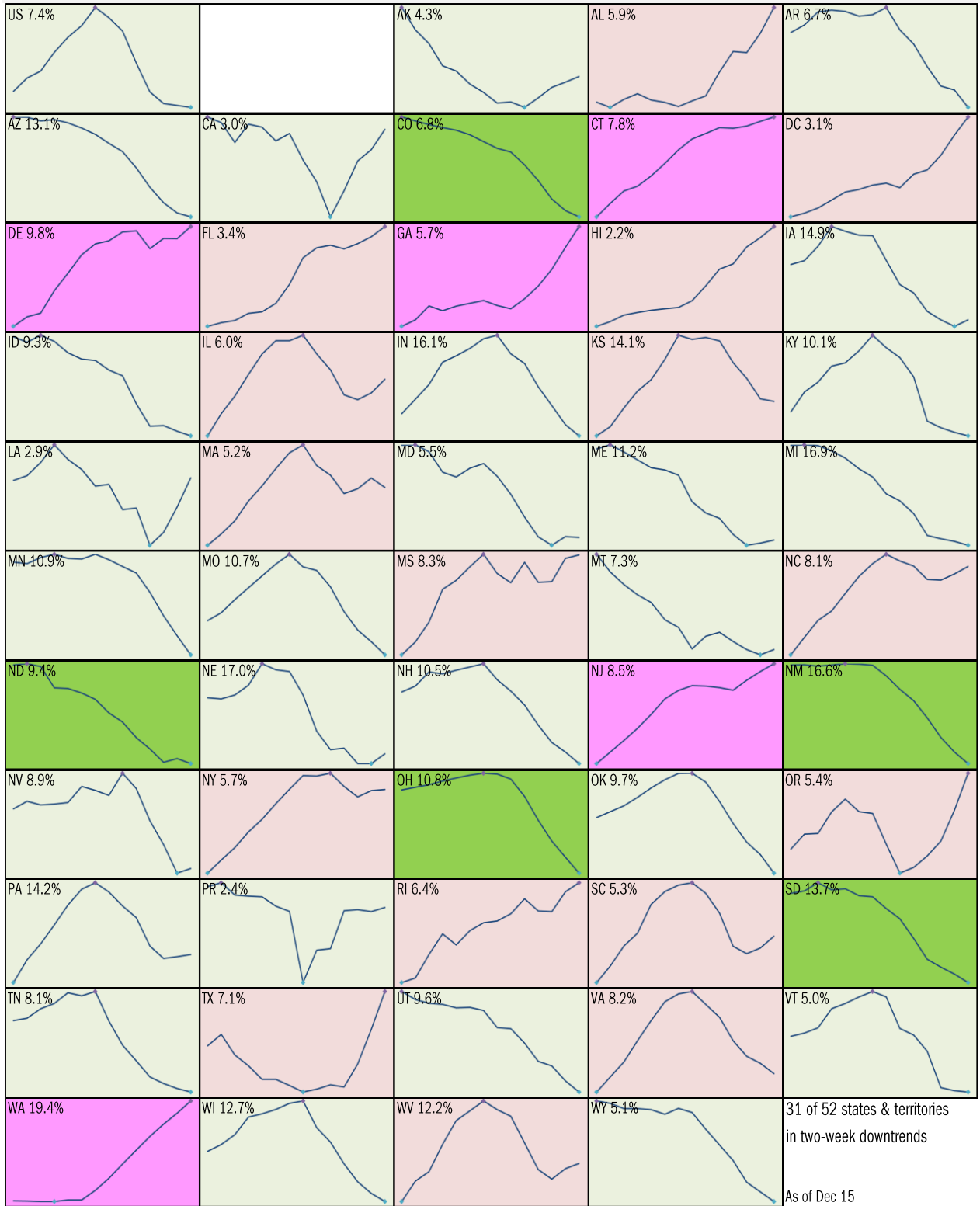


Source: [Johns Hopkins](#), TrendMacro calculations

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

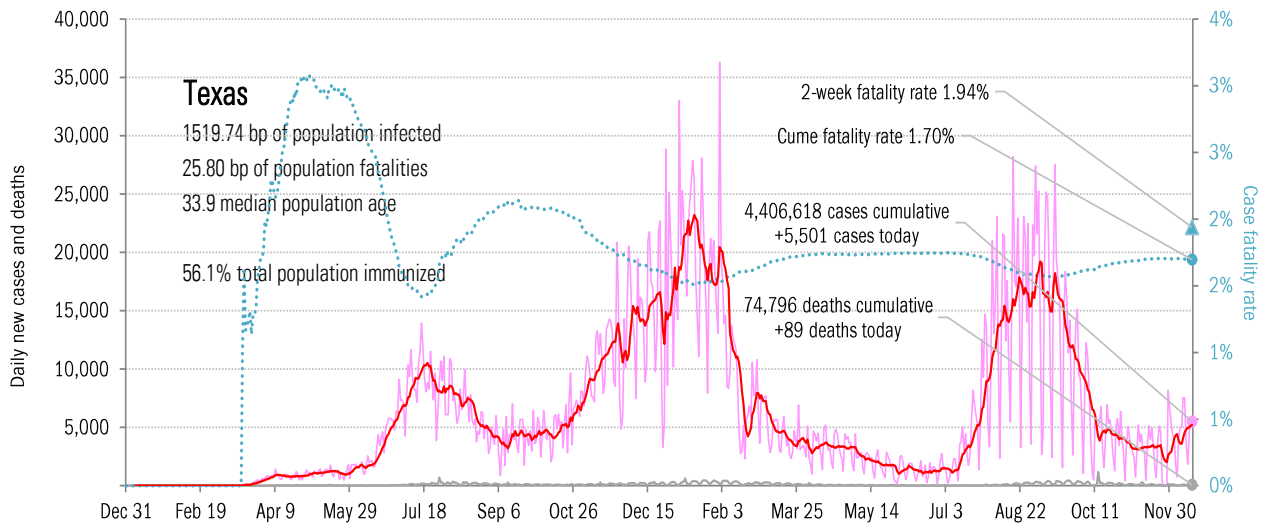
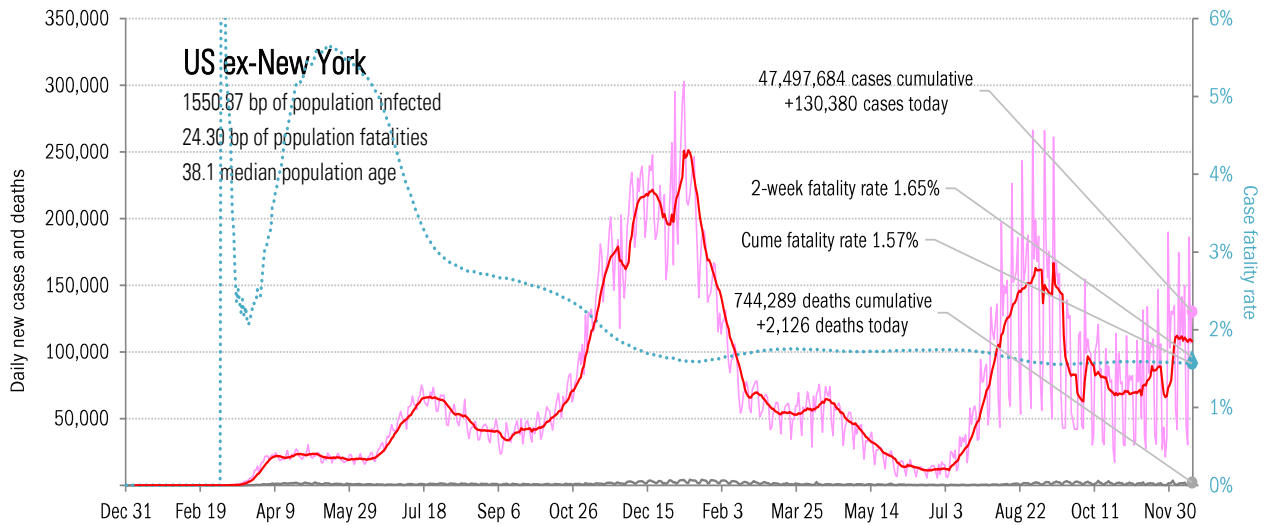
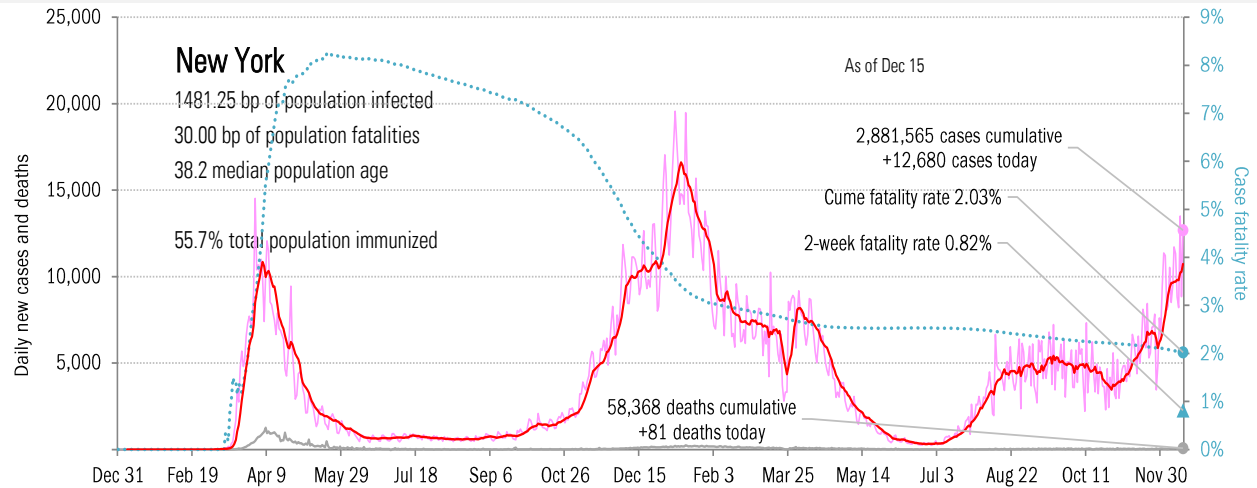
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

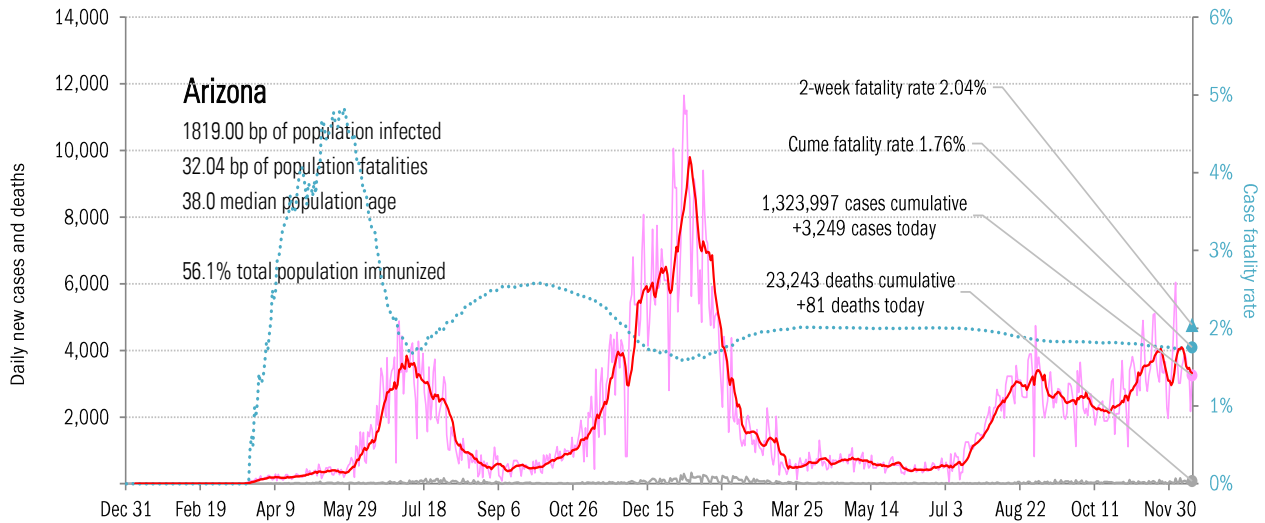
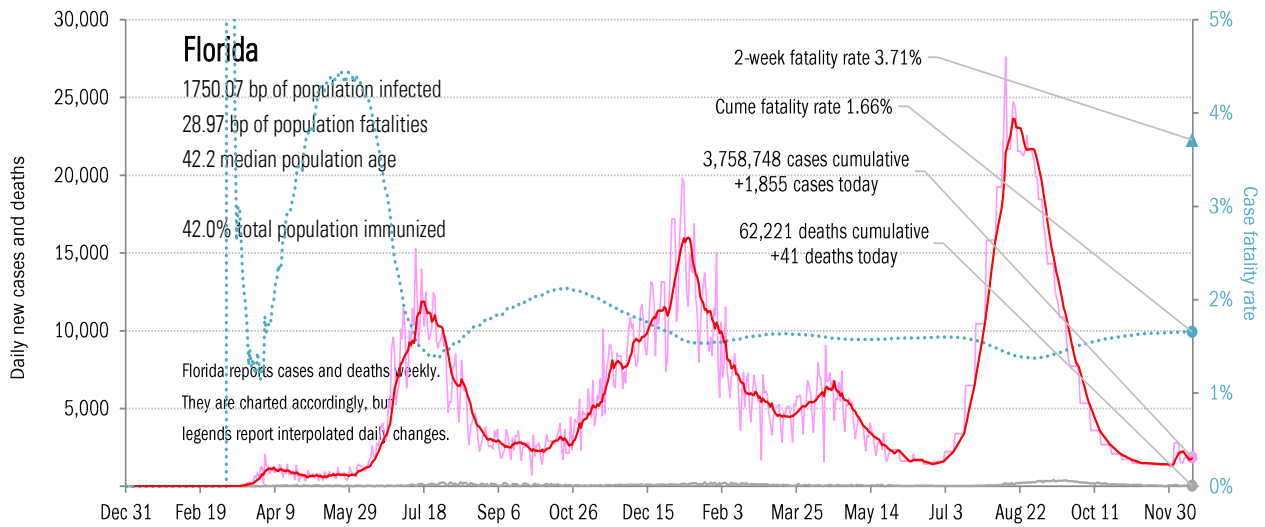
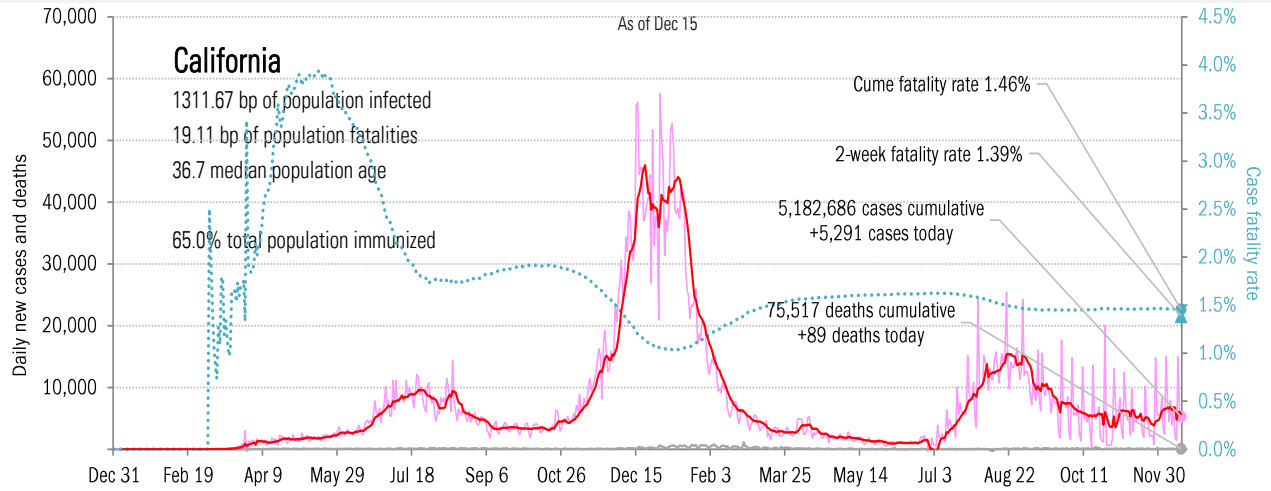
Cases: 7-day average and daily Deaths: Daily



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

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

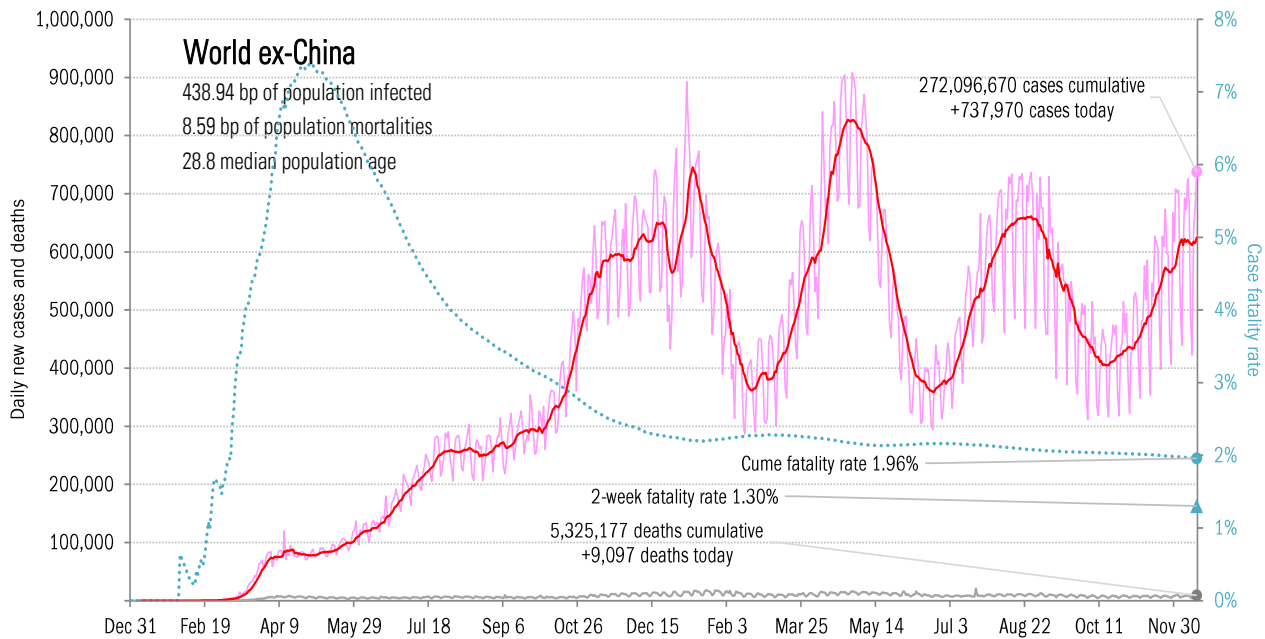
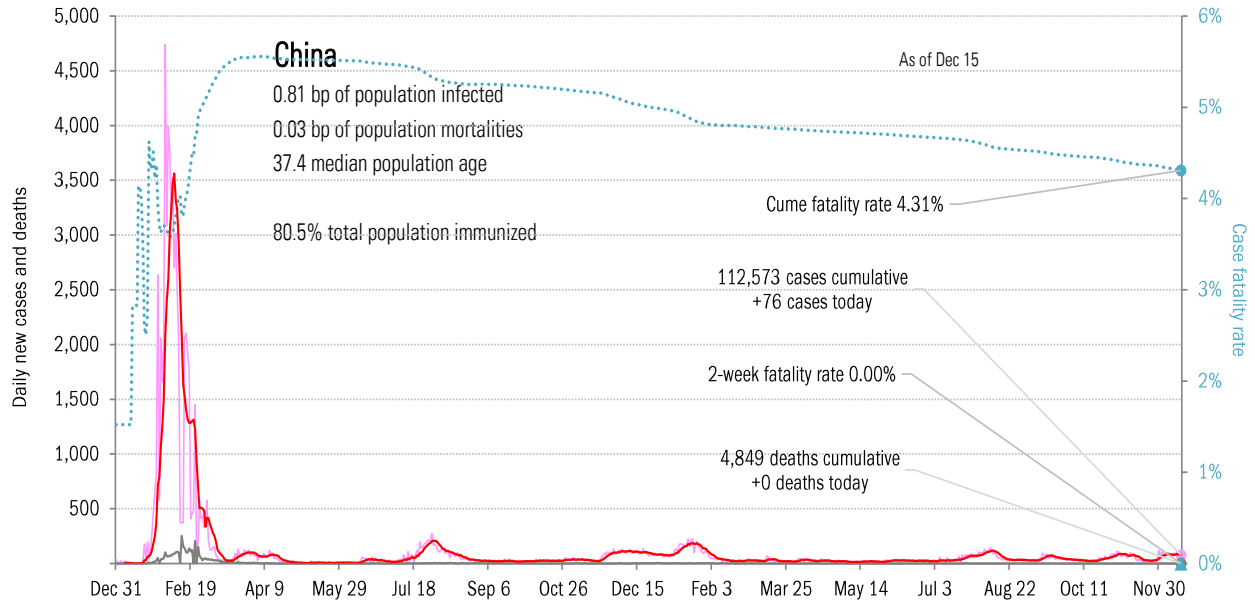
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

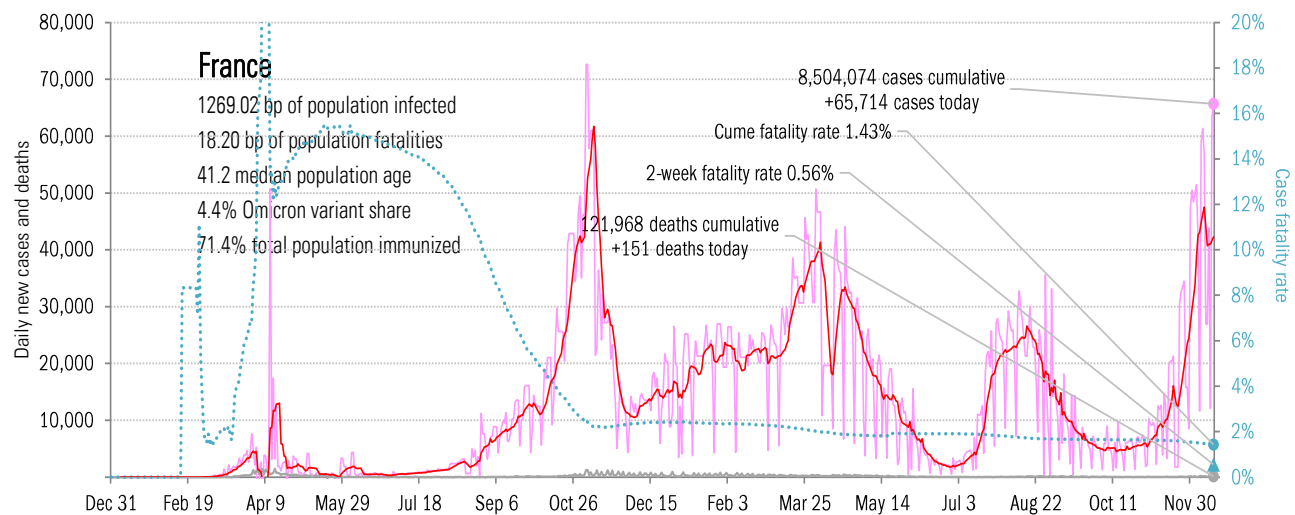
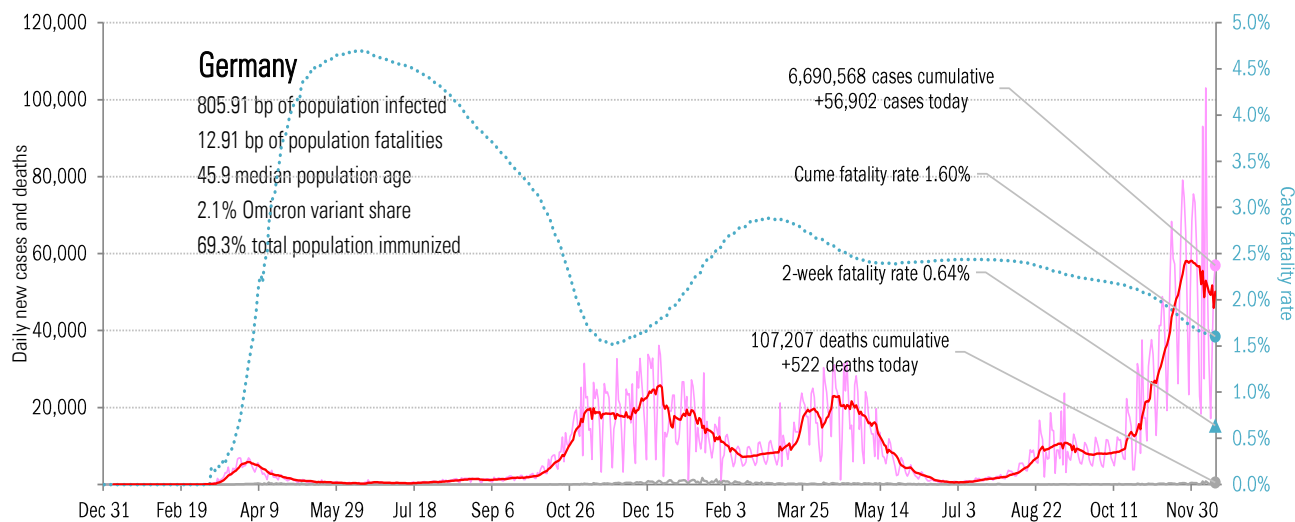
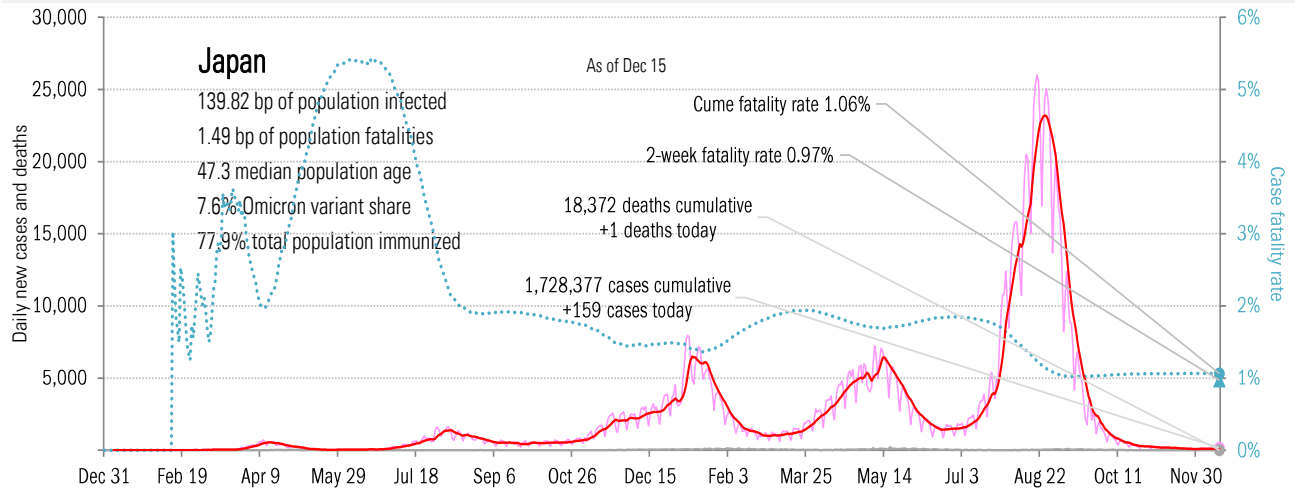
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

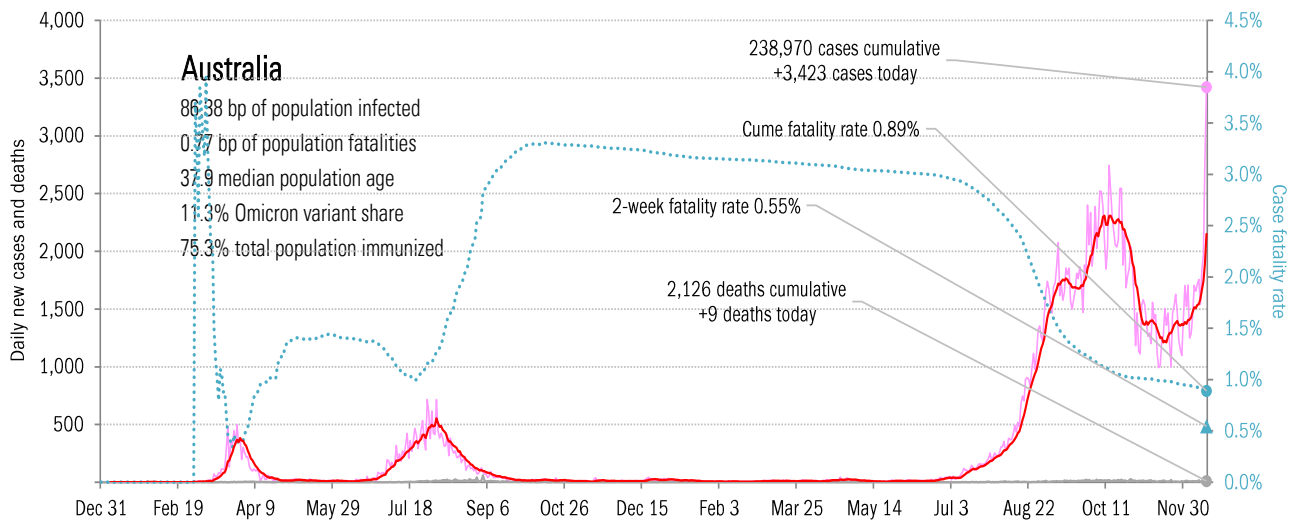
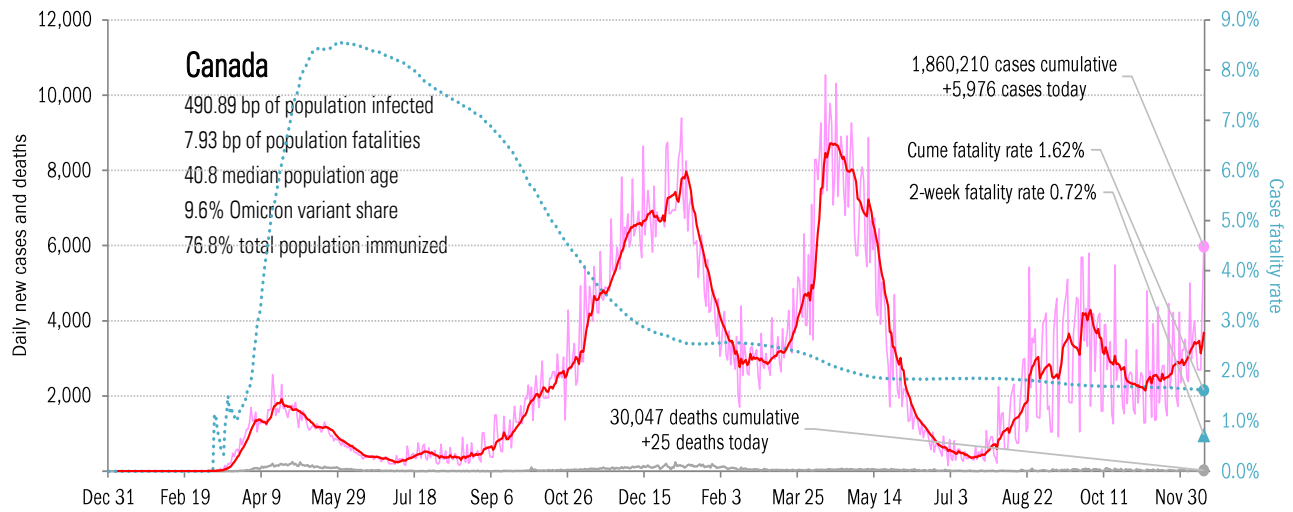
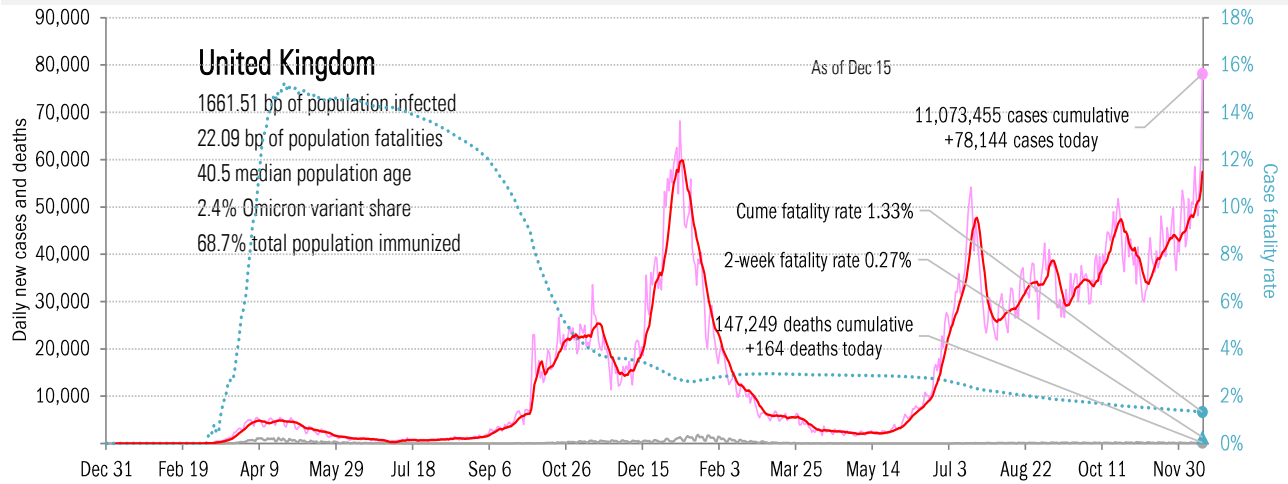
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

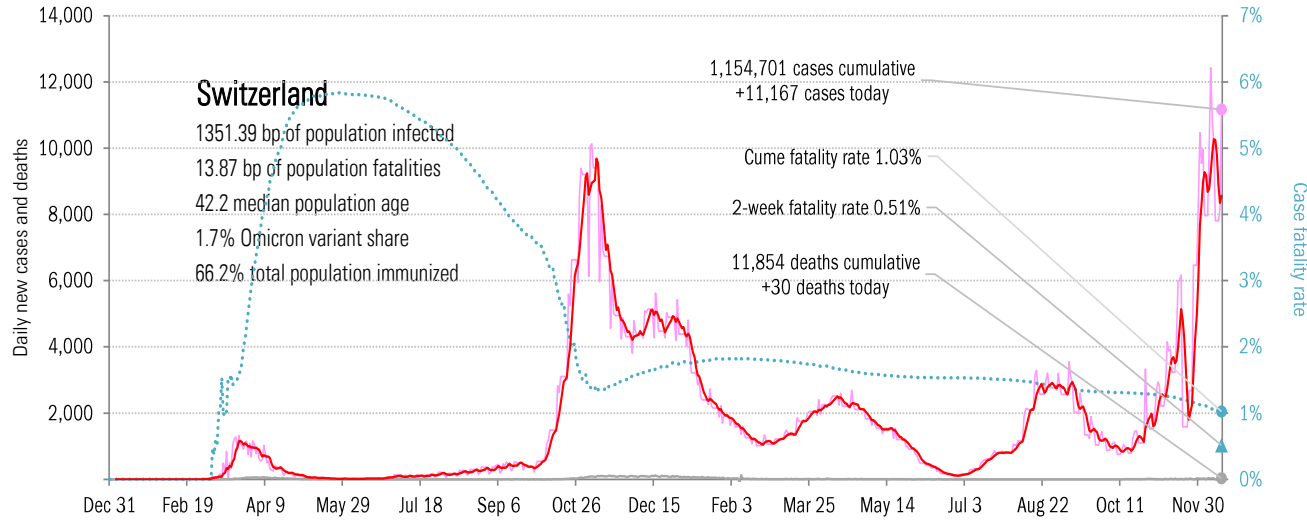
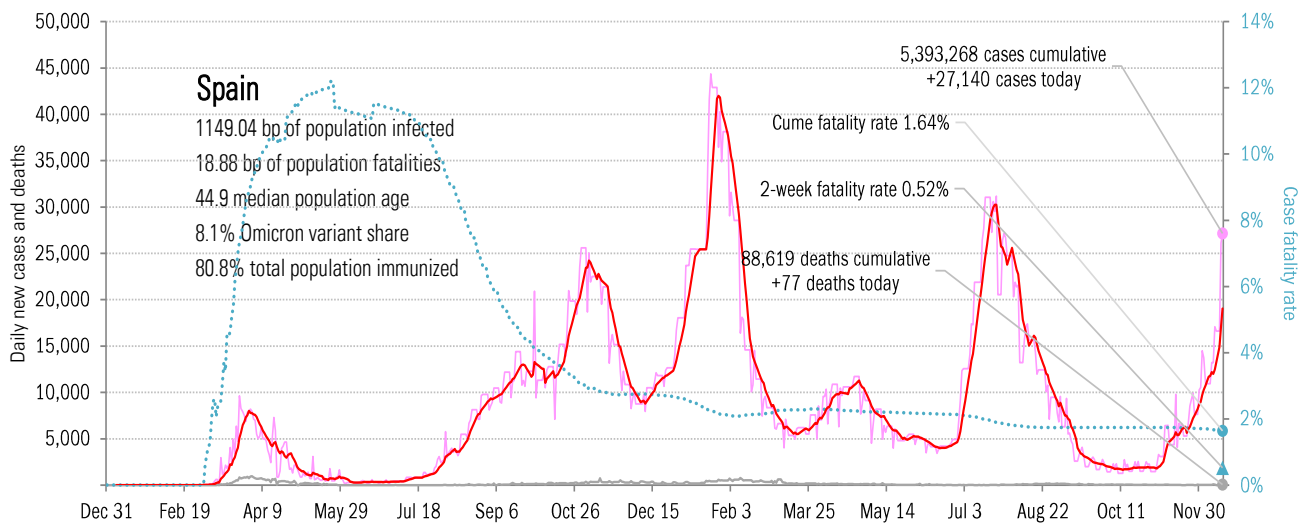
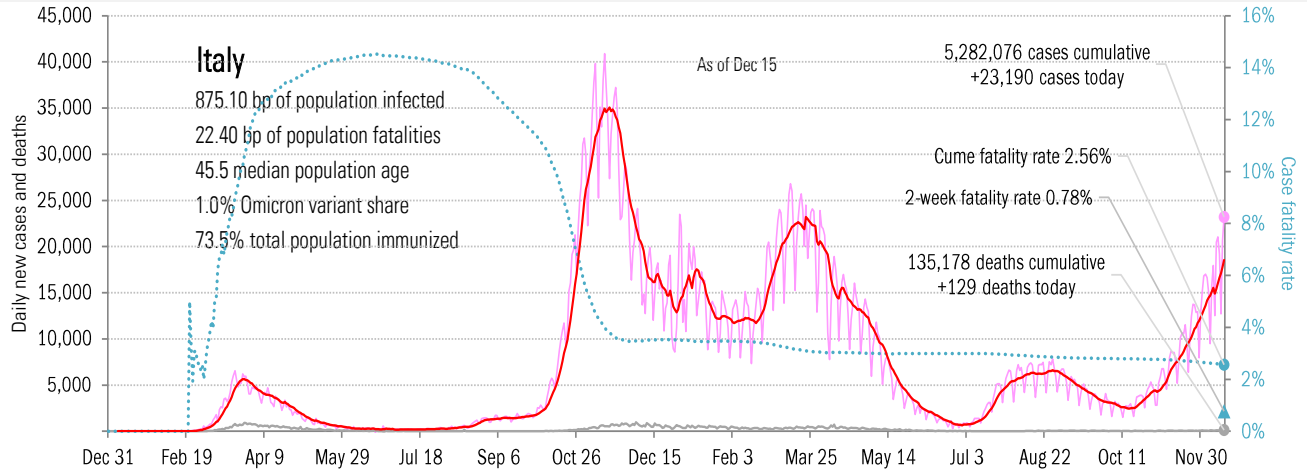
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

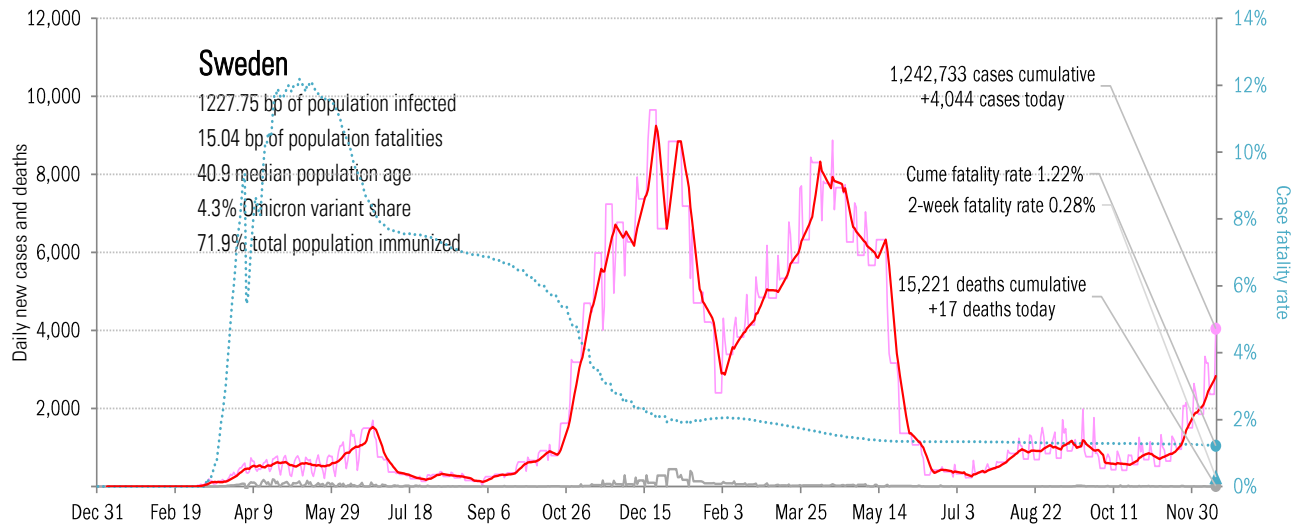
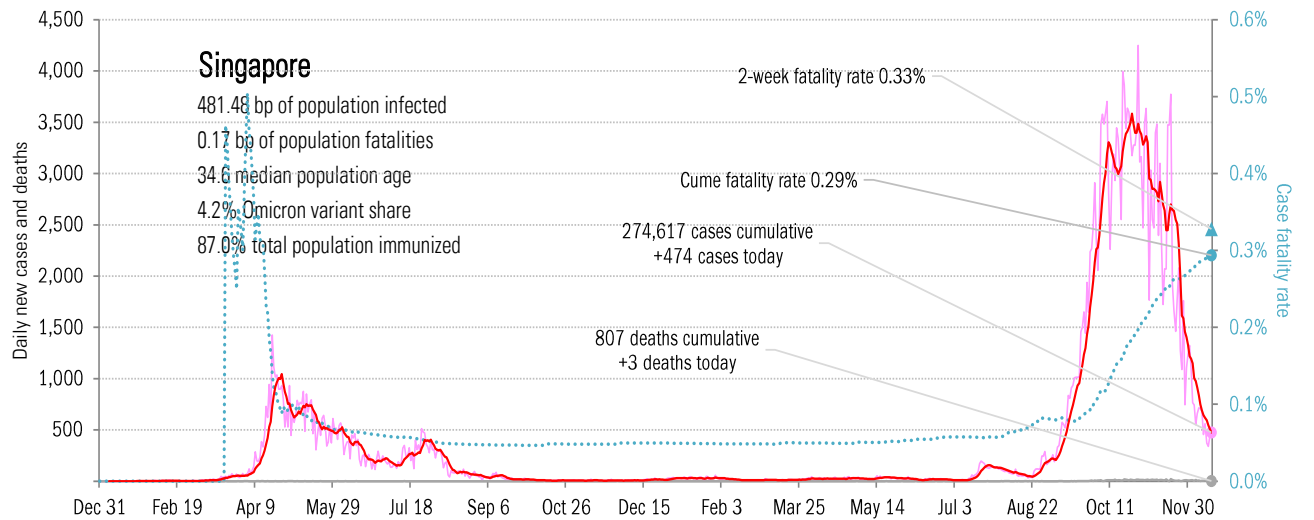
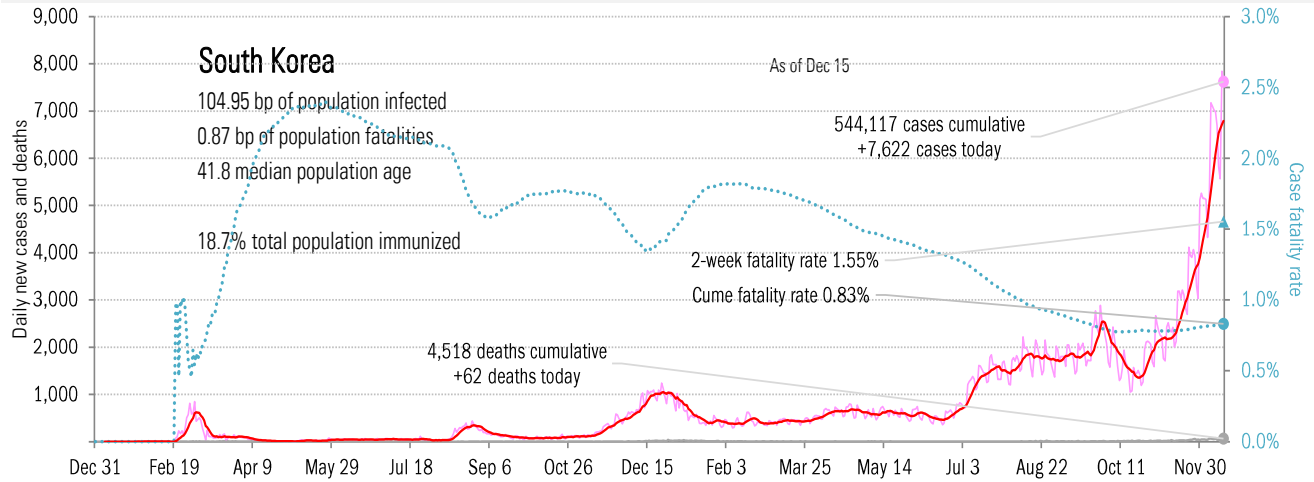
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

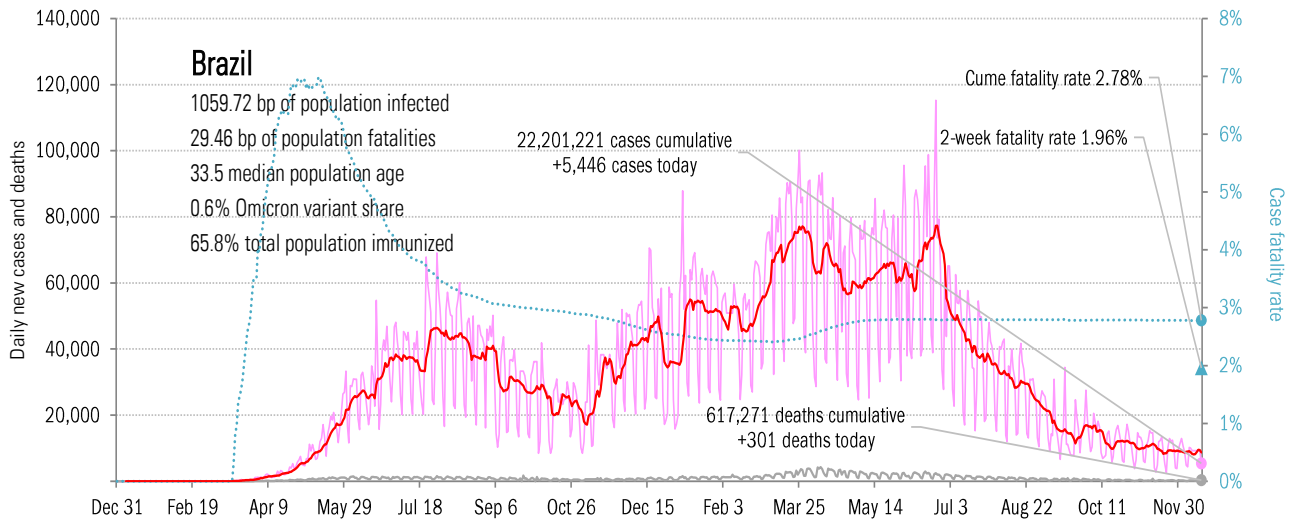
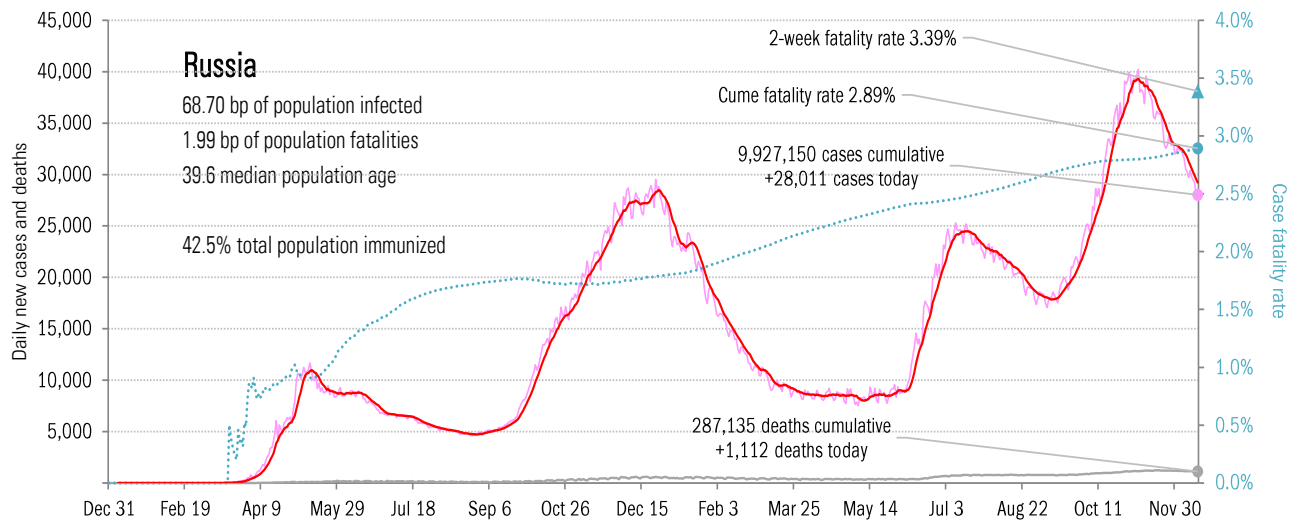
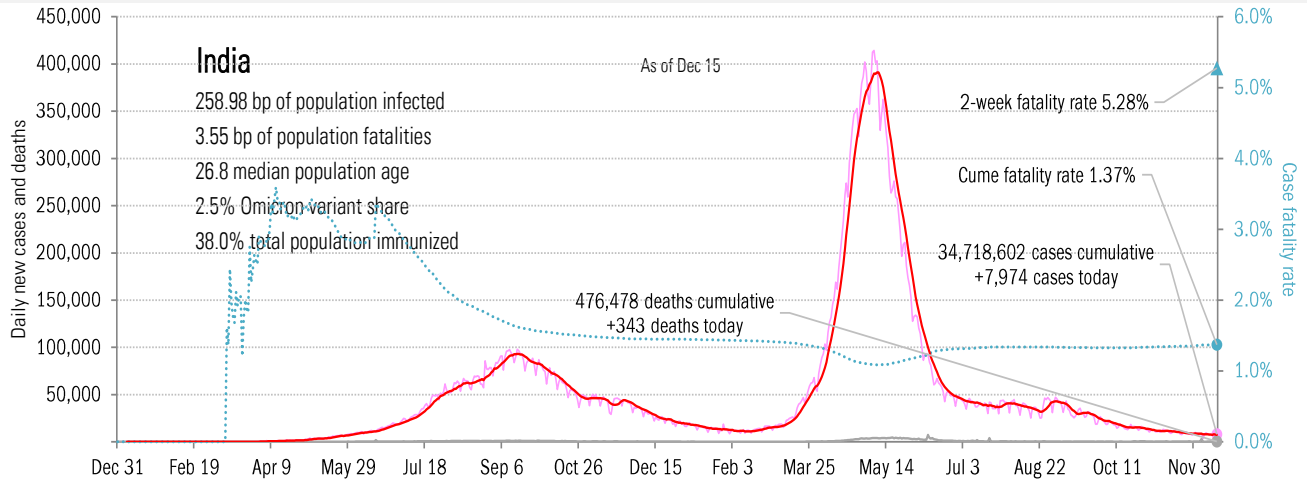
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

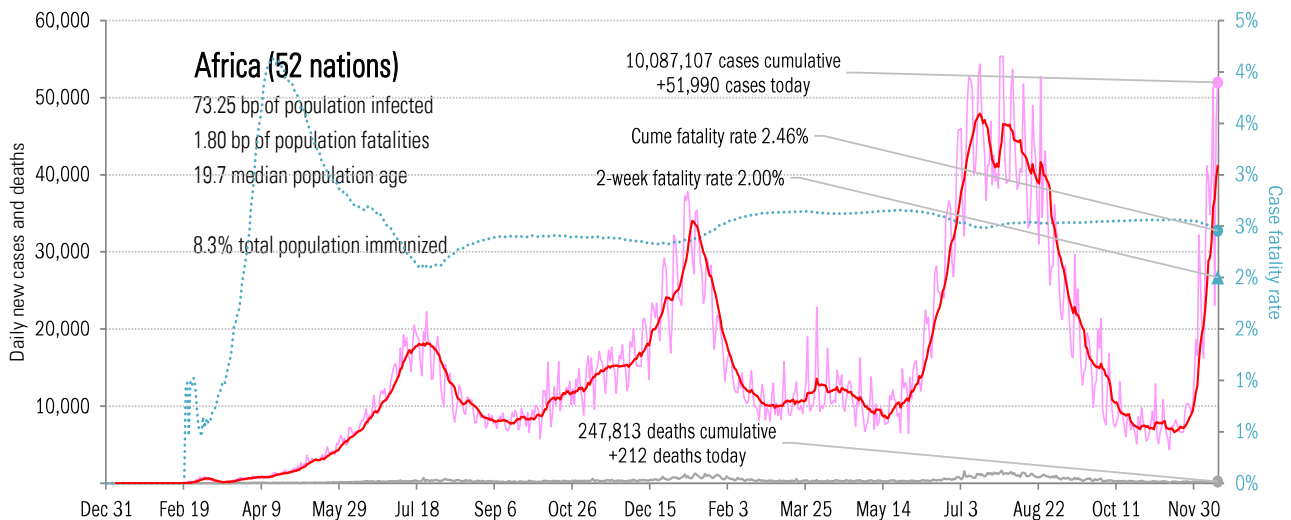
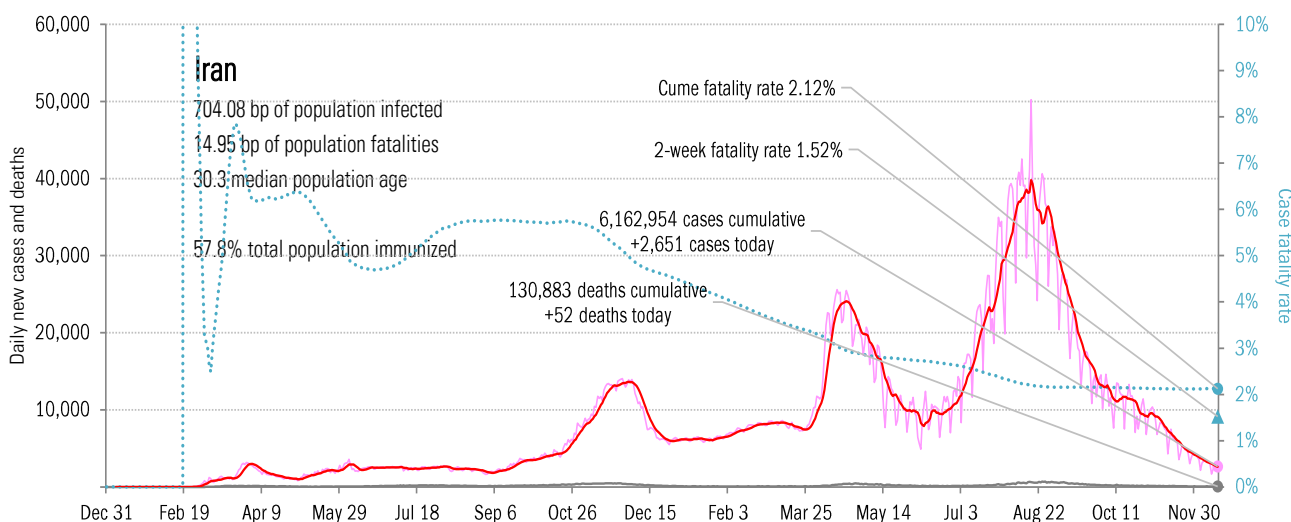
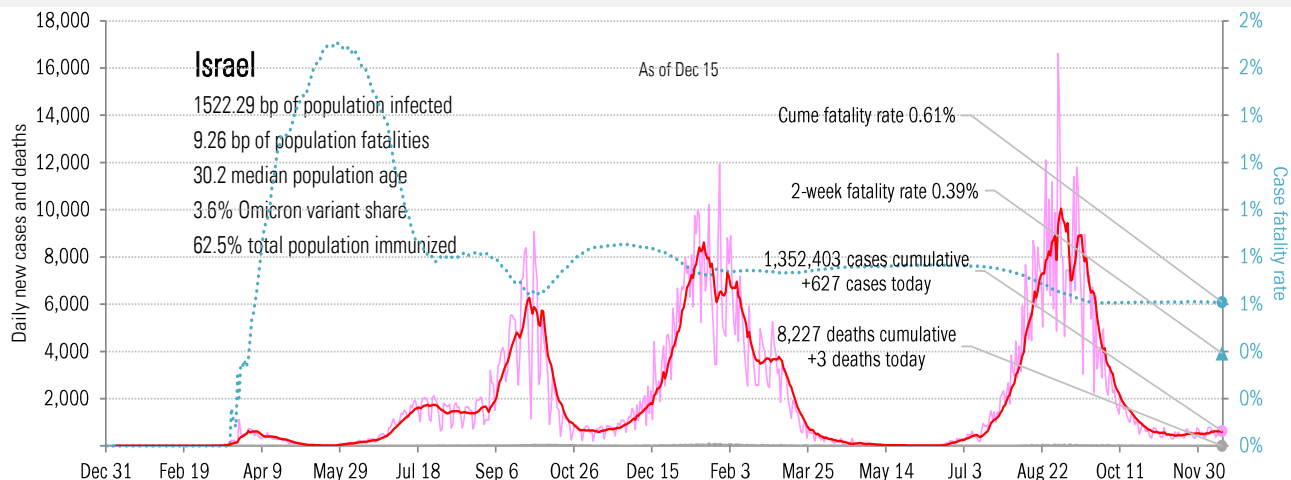
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

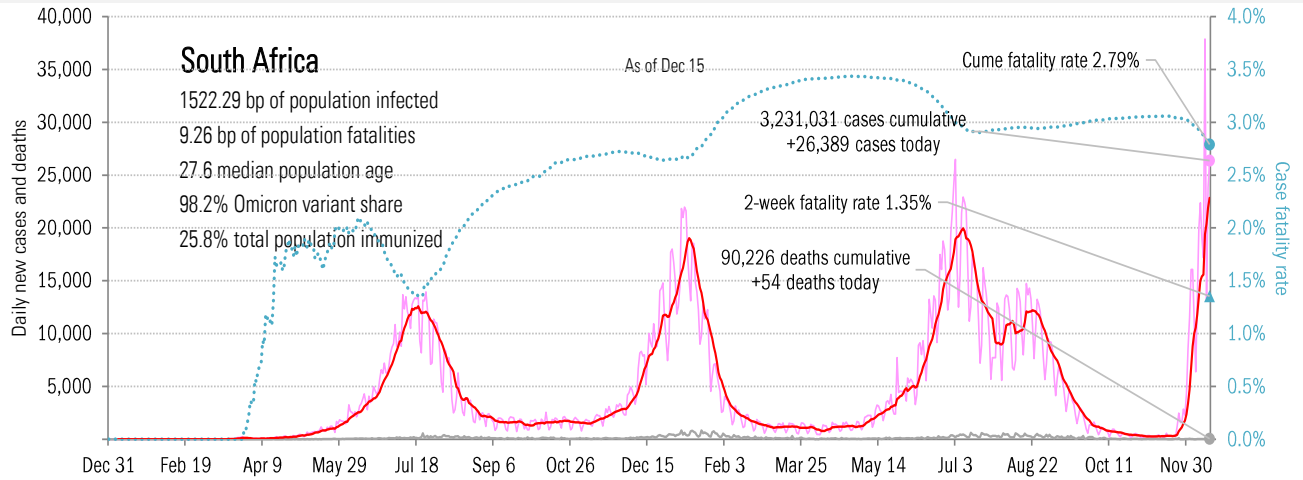
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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