

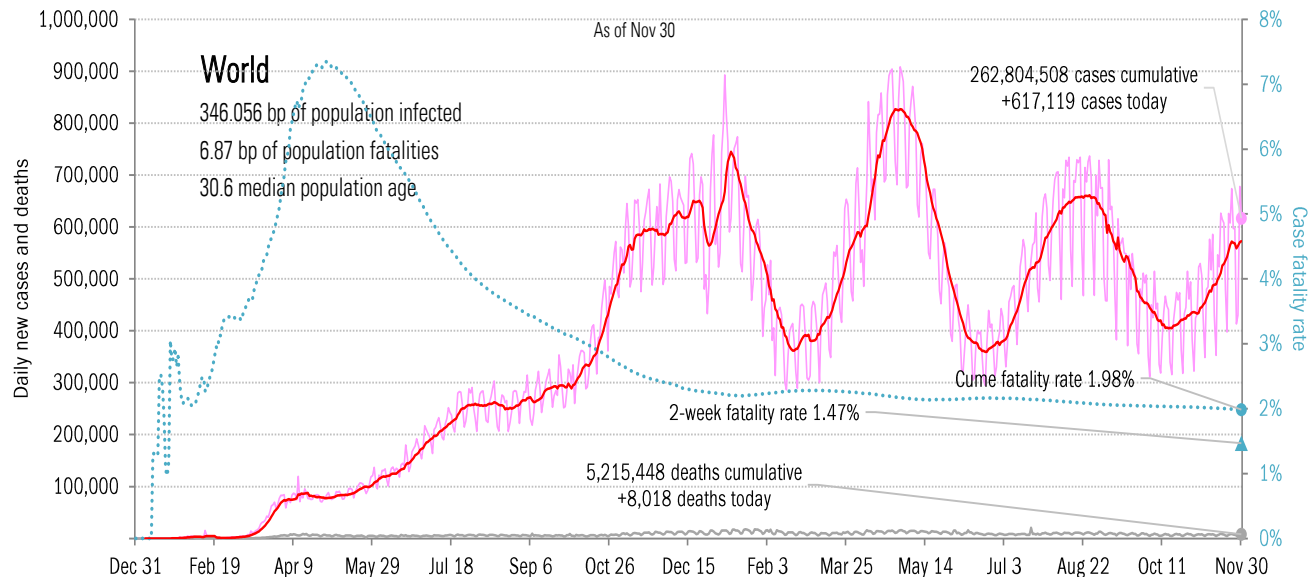
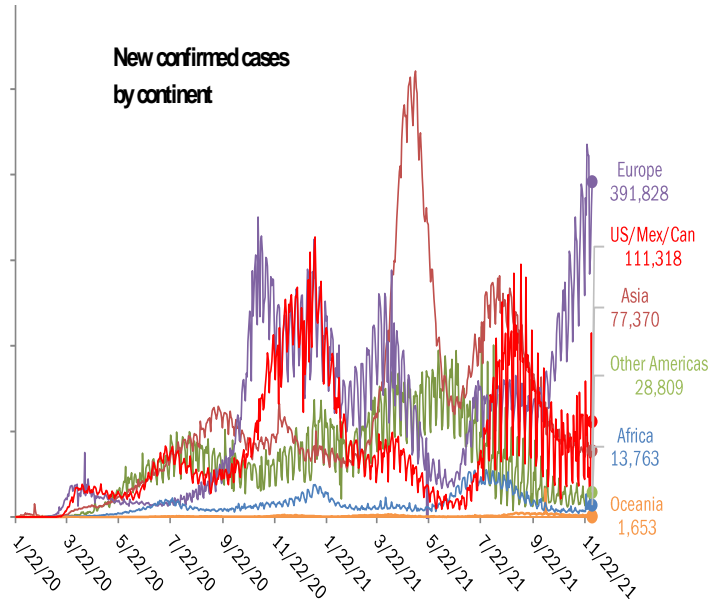
Data Insights: Covid-2019 Monitor

Wednesday, December 1, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+108,966	United States	+1,586
Germany	+68,680	Russia	+1,195
France	+47,224	Ukraine	+595
United Kingdom	+40,501	Poland	+528
Russia	+31,990	Germany	+444
Turkey	+25,216	Brazil	+305
Netherlands	+22,210	India	+267
Poland	+19,100	Turkey	+207
Czechia	+17,662	Vietnam	+197
Belgium	+16,566	Hungary	+195
+398,115		+5,519	
World	+617,119	World	+8,018
Top ten	65%	Top ten	69%



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

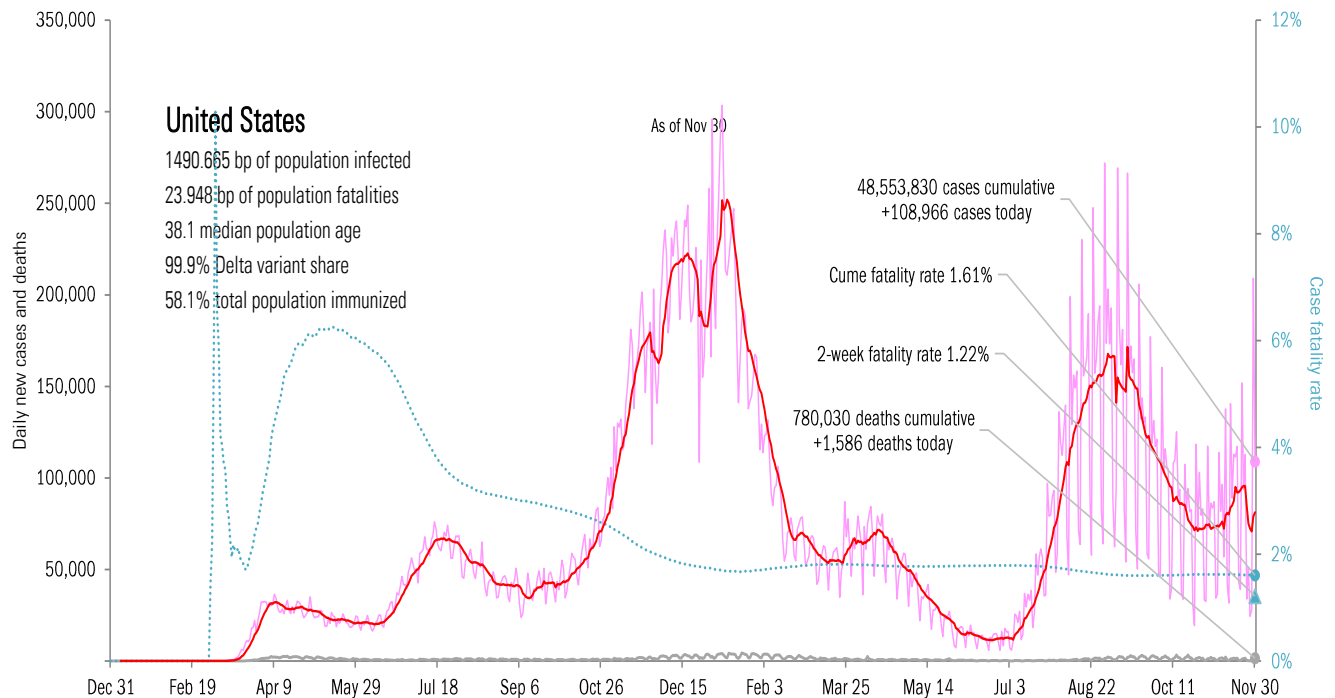
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
MN	+12,631		IN	+119		GA	+77		CA	5,083,462		CA	74,473		TX	384,408		RI	86%	VT	91%
CH	+6,745		PA	+113		NM	+35		TX	4,335,900		TX	73,828		FL	323,558		MI	85%	NM	89%
NY	+6,659		CA	+106		CA	+23		FL	3,729,335		FL	61,438		CA	320,647		PA	84%	MI	89%
TX	+6,591		CH	+104		NJ	+19		NY	2,729,595		NY	57,534		NY	172,604		MA	83%	RI	86%
WI	+5,912		WY	+81		AR	+15		IL	1,809,875		PA	33,421		GA	163,344		WA	80%	KY	85%
PA	+5,766		AZ	+77		WV	+9		PA	1,736,920		GA	30,510		CH	135,216		MN	79%	AL	85%
IL	+5,714		TX	+74		NH	+8		CH	1,690,217		IL	28,847		PA	126,853		MD	79%	PA	84%
CA	+4,868		FL	+57		WY	+7		GA	1,664,456		NJ	28,390		KY	114,511		NH	78%	NE	84%
IN	+4,057		NY	+57		OK	+5		NC	1,534,005		CH	26,587		IL	110,746		GA	78%	IA	84%
MA	+3,602		MO	+53		AL	+4		MI	1,475,053		MI	25,399		MI	103,436		NY	78%	TX	83%
+62,545			+841			+202			25,788,818			440,427			1,955,323						
All states	+108,966			+1,586			-427		All states	48,553,830			780,030			3,514,812		All states	70%		67%
Top ten	57%			53%			-47%		Top ten	53%			56%			56%		Median	73%		78%

Some states not reporting

Five most improved US states

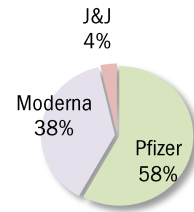
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-27,823	FL	-176	CH	-178	DE	+70 bp
IL	-13,547	MI	-155	AZ	-156	GA	+20 bp
CA	-12,486	CA	-102	PA	-130	IA	+20 bp
IN	-8,583	KY	-88	MI	-110	ME	+20 bp
NC	-6,417	TX	-75	IN	-99	MN	+20 bp



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	473,318,110	+1.541 million	US	58.1%	69.3%
Boosters	82,811,939	+1.756 million	UK	68.0%	74.7%
	One dose	% Pop	Immune	% pop	New immune today
Total population	239,039,098	71%	202,132,153	60%	+0.253 million
Age 12 to 17	14,658,024	61%	12,264,004	51%	+0.016 million
Age 18 to 64	162,383,272	80%	139,818,628	69%	+0.119 million
Age 65 and over	56,820,030	100%	48,908,207	89%	+0.020 million



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



Every American >18 immunized in **102 days** by Mar 12, 2022
 72.9% of population >18 immunized
 17.1% previously tested positive
90.0% vs 60% adult herd immunity

France	69.7%	76.9%
Spain	80.5%	82.0%
Germany	68.0%	70.8%
Italy	73.0%	78.2%
Australia	72.9%	77.7%
Israel	62.2%	68.2%
Canada	76.2%	80.1%
Japan	77.3%	79.2%
Africa	7.3%	11.1%
India	32.2%	56.6%
Brazil	62.6%	76.6%
China	74.5%	84.8%

Global data differs due to sources, timing

AK	62.8%
	54.2%

WI	65.8%
	59.5%

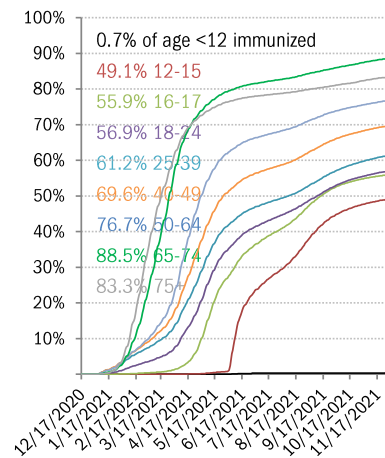
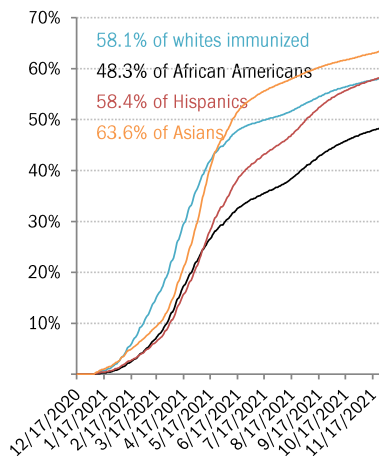
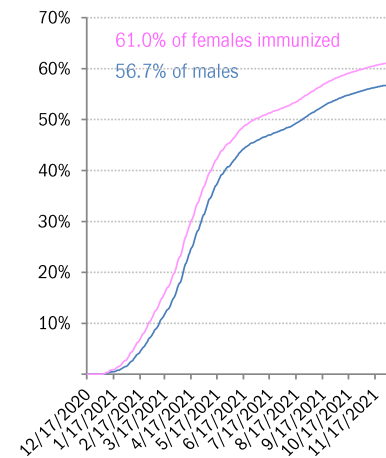
As of Nov 30

ME	82.0%
	72.3%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
72.9%	50.7%	59.8%	58.0%	69.0%	69.4%	61.2%	78.2%	85.5%	87.6%	
65.0%	45.2%	51.9%	48.8%	62.5%	61.7%	54.6%	68.5%	72.9%	64.8%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
71.5%	66.4%	53.6%	67.0%	62.6%	55.7%	58.4%	81.7%	79.1%	85.8%	
64.0%	54.5%	45.6%	54.6%	56.7%	50.6%	53.0%	58.4%	67.8%	71.2%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
78.8%	63.9%	71.5%	64.1%	59.7%	60.3%	53.9%	75.6%	76.9%	84.1%	83.2%
63.2%	55.3%	63.2%	57.4%	50.9%	52.1%	41.5%	64.9%	67.6%	72.0%	72.6%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	64.3%	76.6%	66.2%	60.5%	56.8%	70.3%	60.3%	81.6%	73.1%	
	54.7%	63.5%	54.6%	49.3%	49.5%	54.2%	51.4%	64.5%	61.6%	
			OK	LA	MS	AL	GA			
			62.8%	55.6%	53.7%	56.5%	59.1%			
			51.5%	48.9%	46.9%	46.2%	49.6%			
			TX					FL		PR
			64.1%					71.8%		84.9%
			54.7%					61.4%		74.1%

HI	82.1%
	61.0%

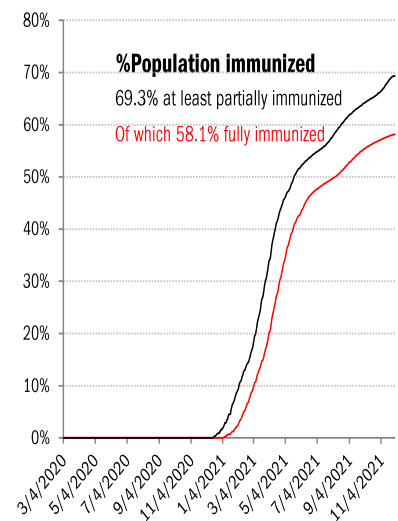
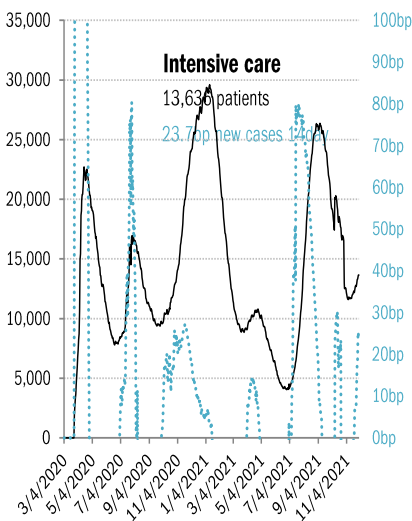
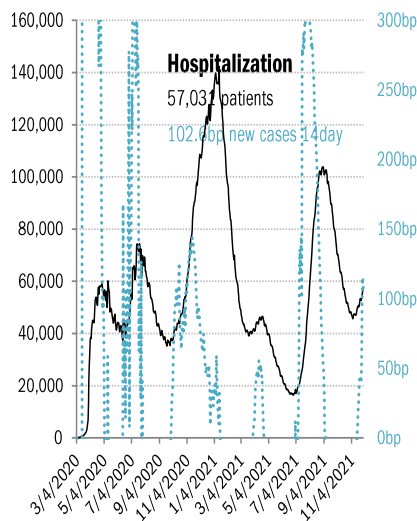
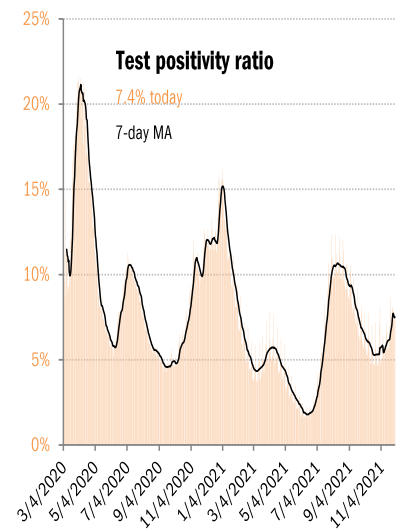
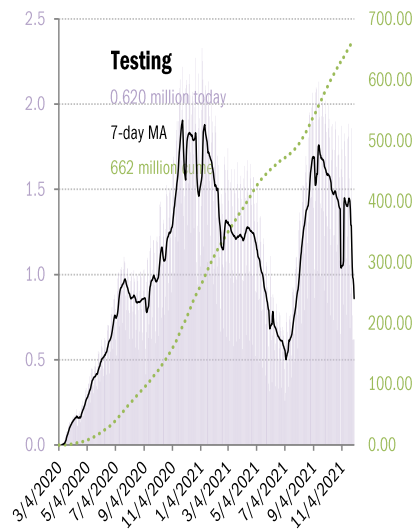
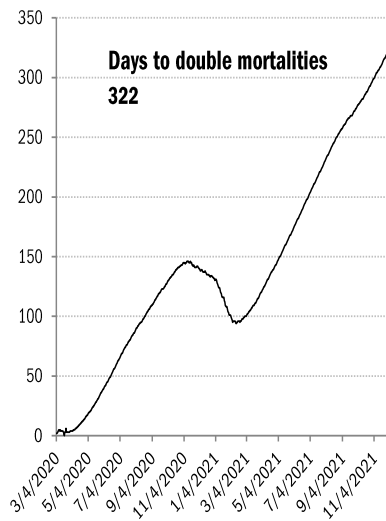
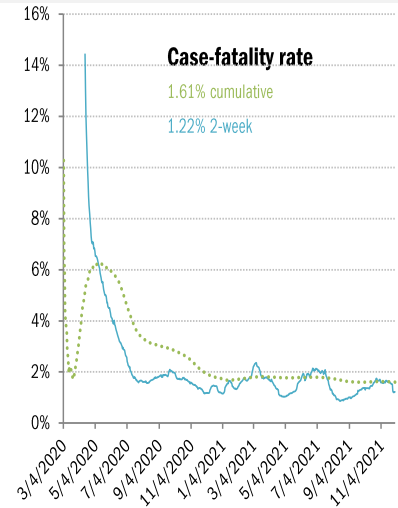
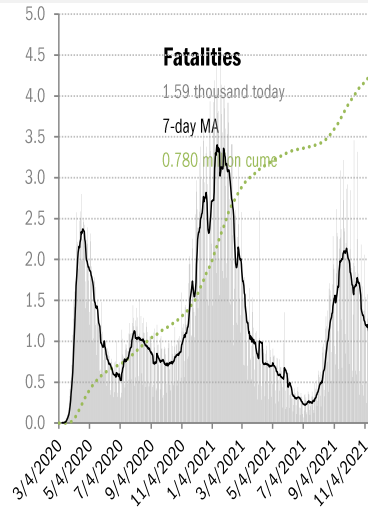
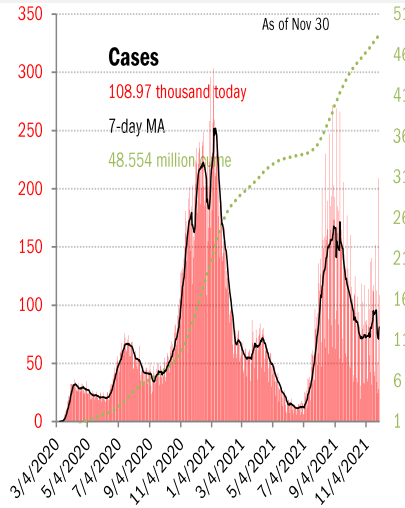
The demographics of US vaccination



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

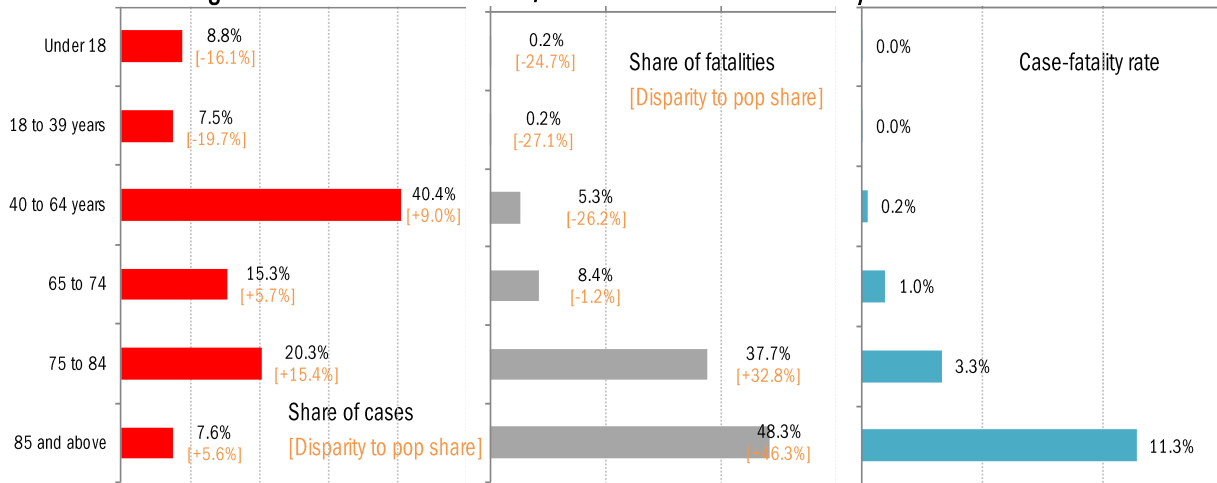
US deep-dive

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

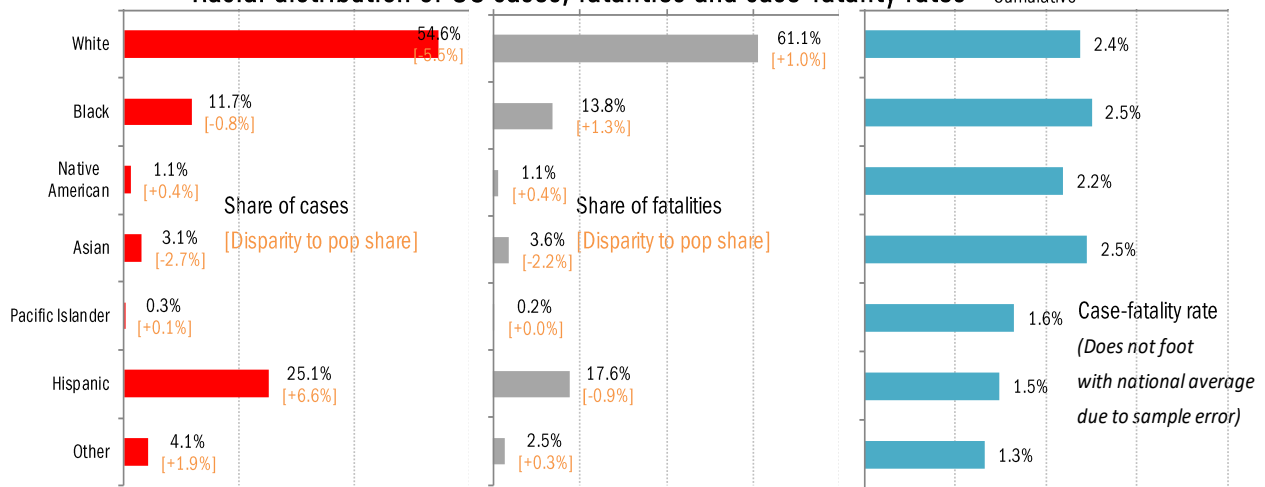


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

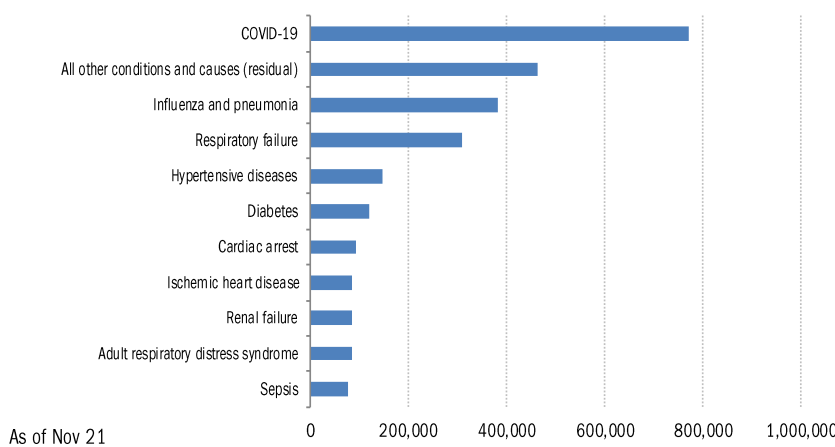


Racial distribution of US cases, fatalities and case-fatality rates



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

[Olaf Scholz wants mandatory coronavirus vaccination for Germans by February](#)

Hans von der Burchard
Politico
November 30, 2021

[BioNTech CEO Says Shots Likely Protect From Worst of Omicron](#)

Naomi Kresge
Bloomberg
November 30, 2021

[BioNTech CEO says vaccine likely to protect against severe COVID from Omicron](#)

Ludwig Burger and Patricia Weiss
Reuters
November 30, 2021

[Merck Says Covid Antiviral Likely to Be Active Against Omicron](#)

Emma Court
Bloomberg
November 30, 2021

[U.S. May Tighten Travel Rules to Fight Omicron, CDC Head Says](#)

Josh Wingrove and Jeannie Baumann
Bloomberg
November 30, 2021

[Oxford Sees No Evidence Omicron Defeats Vaccines So Far](#)

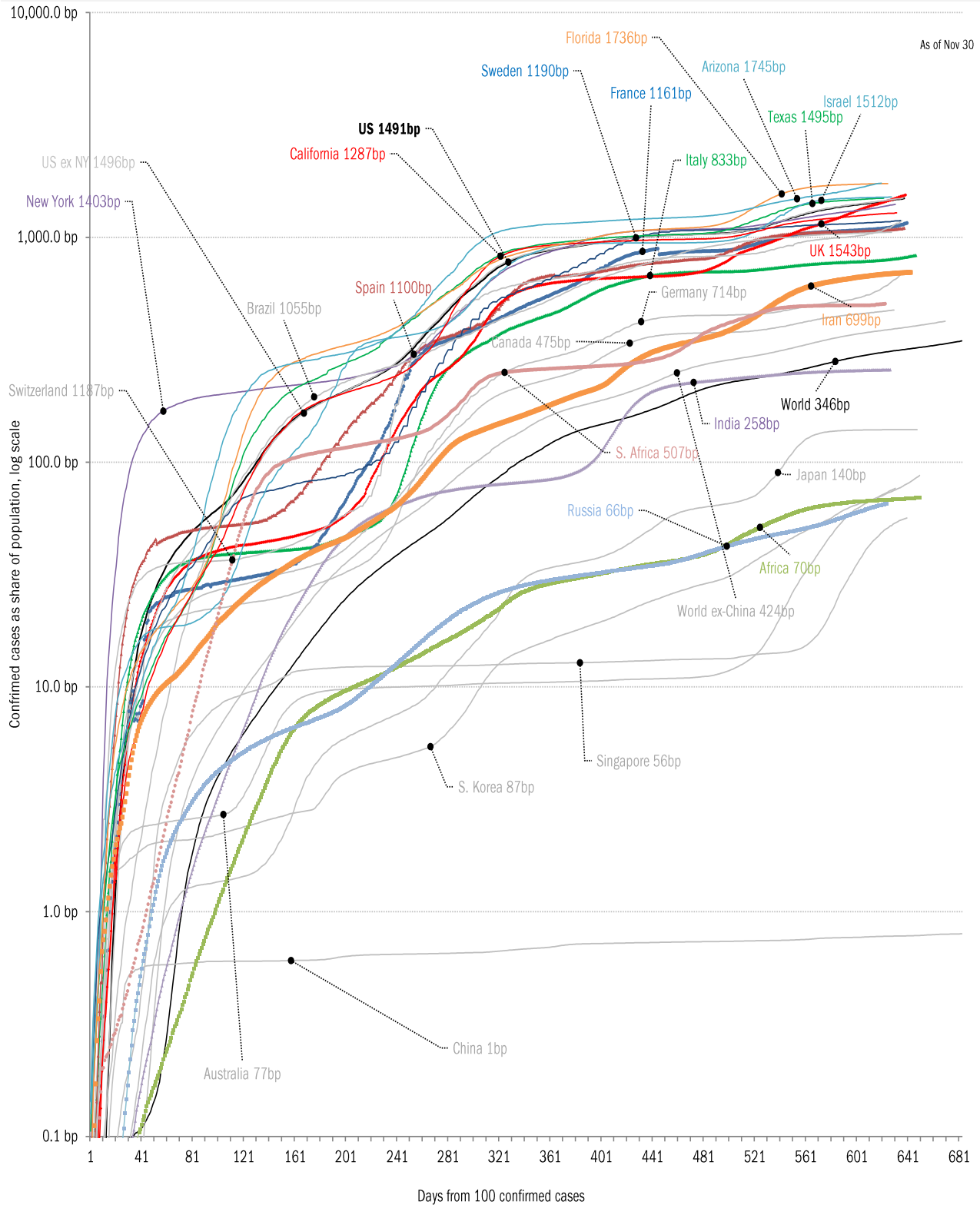
Suzi Ring
Bloomberg
November 30, 2021

Meme of the day



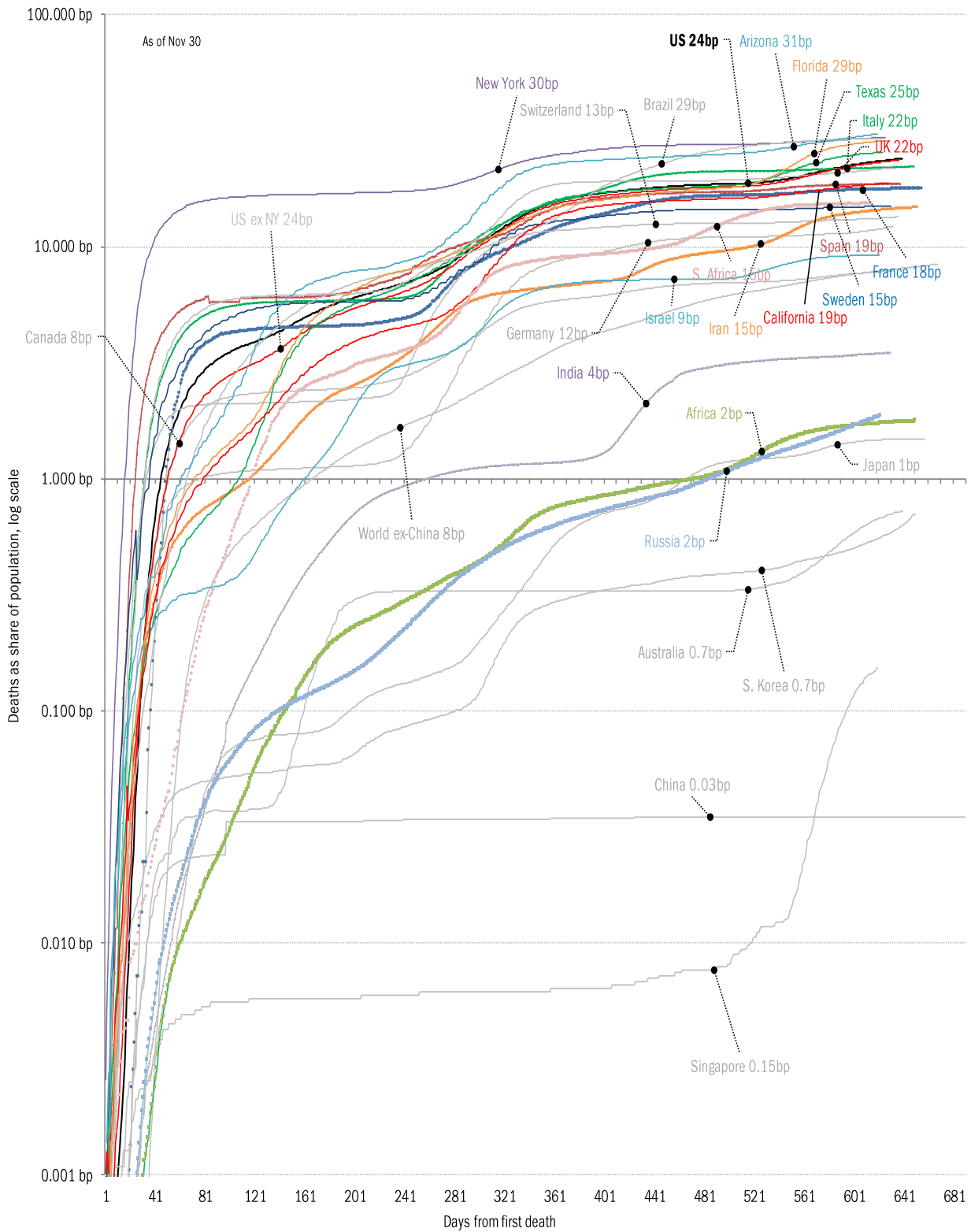
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

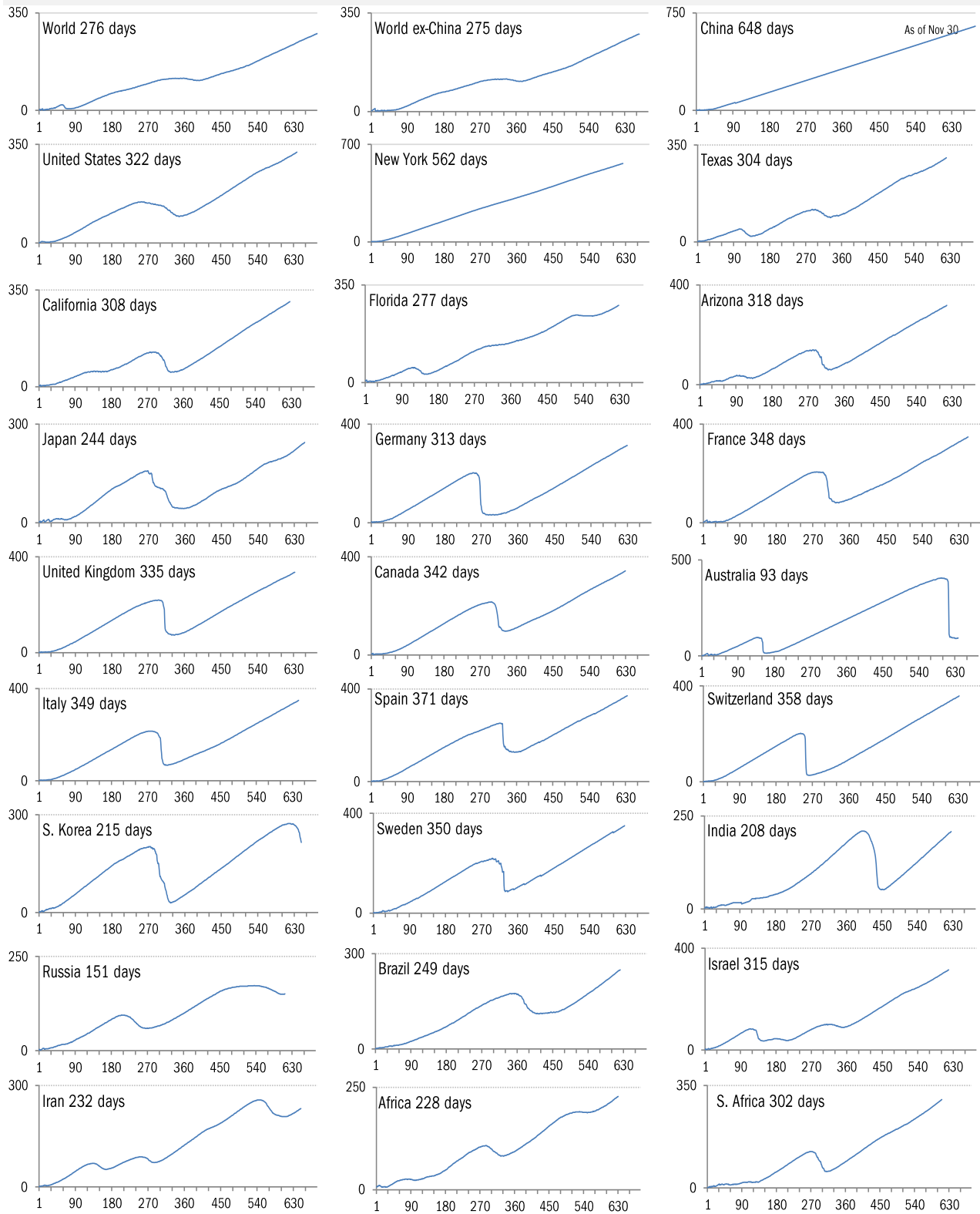


Source: [Johns Hopkins](#), TrendMacro calculations

"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

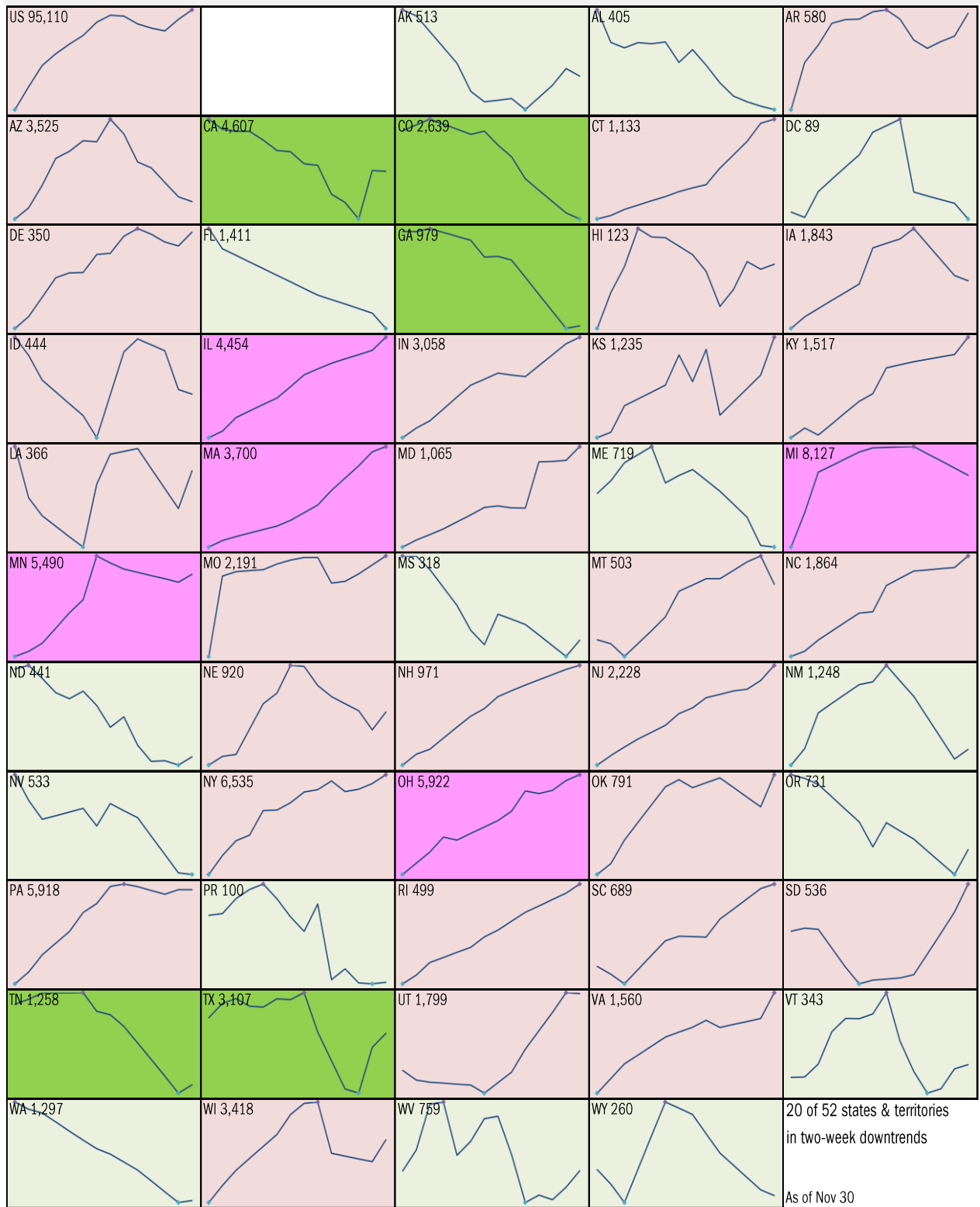


Source: [Johns Hopkins](#), TrendMacro calculations

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

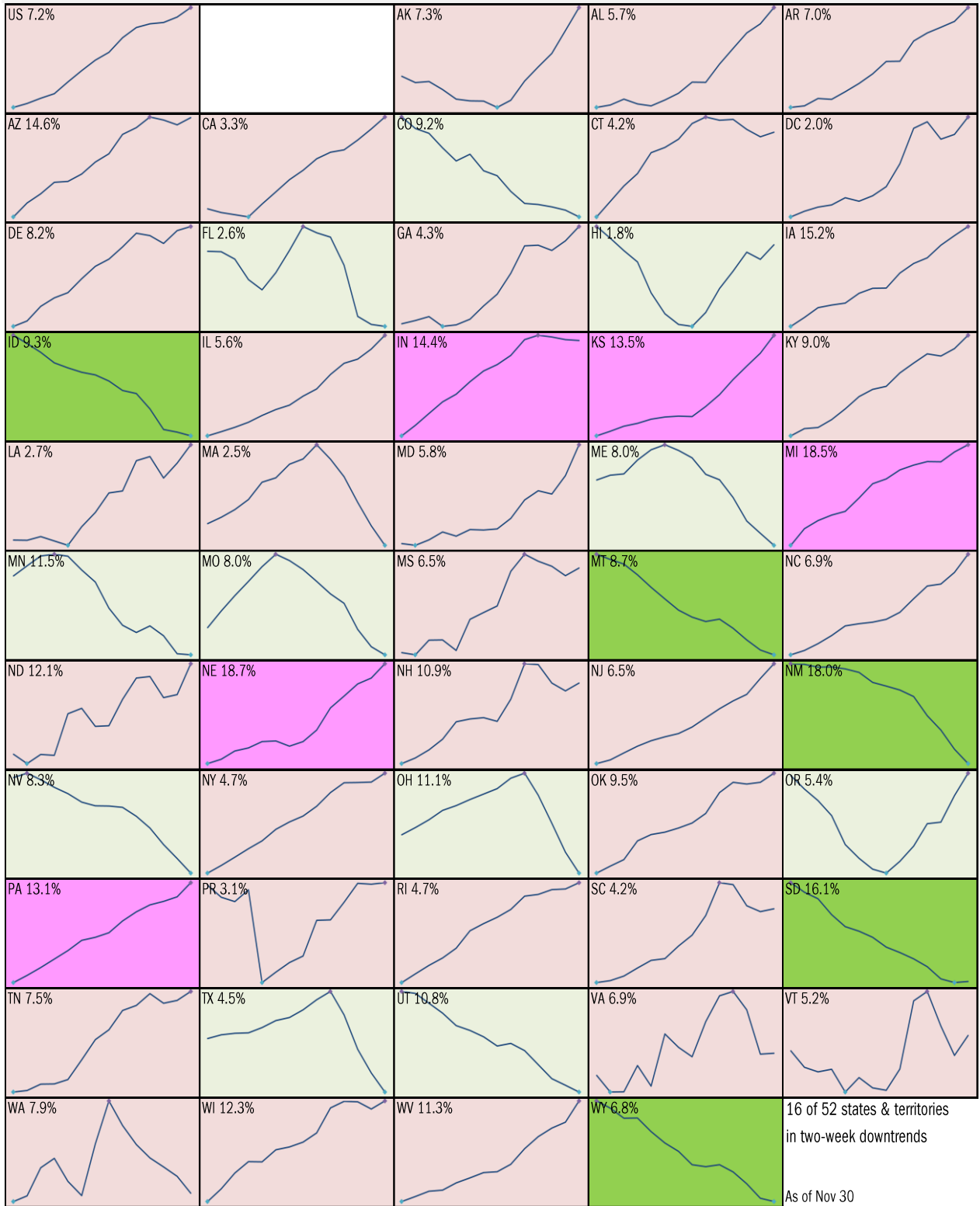


Source: [Johns Hopkins](#), TrendMacro calculations

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

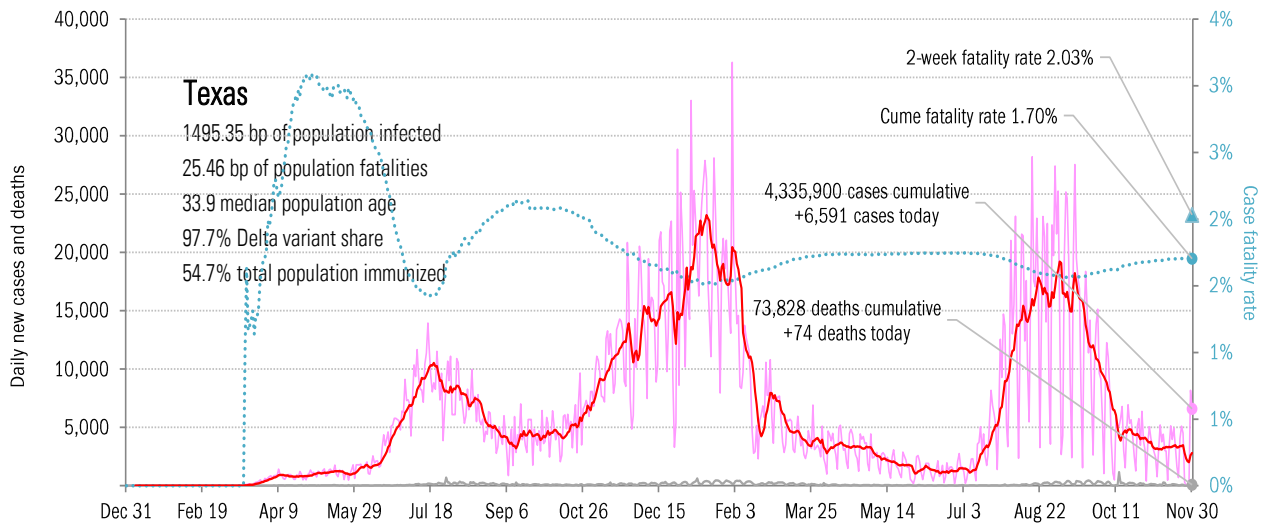
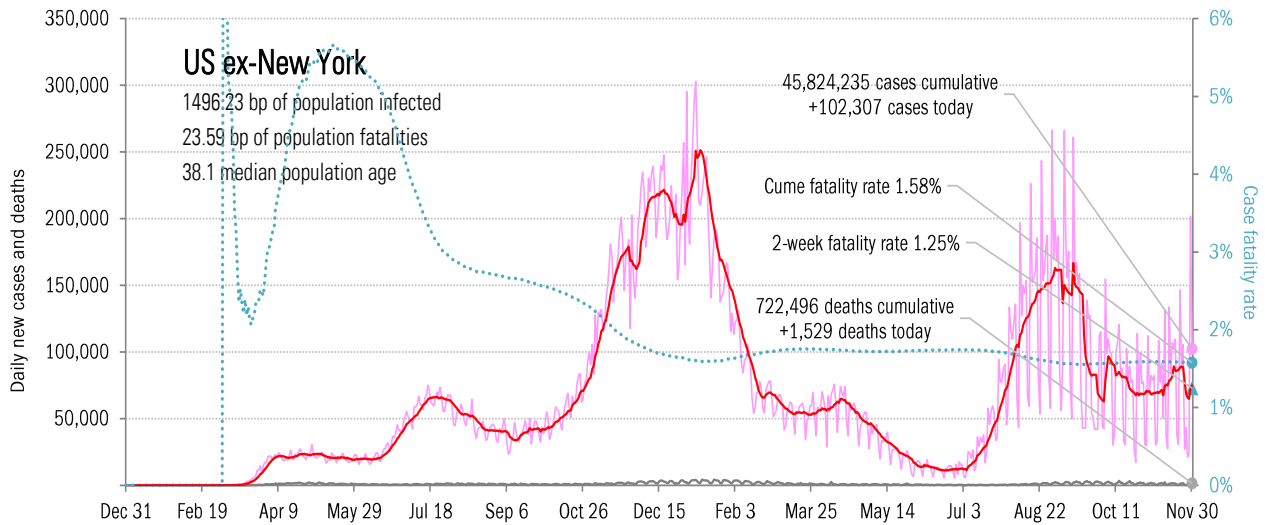
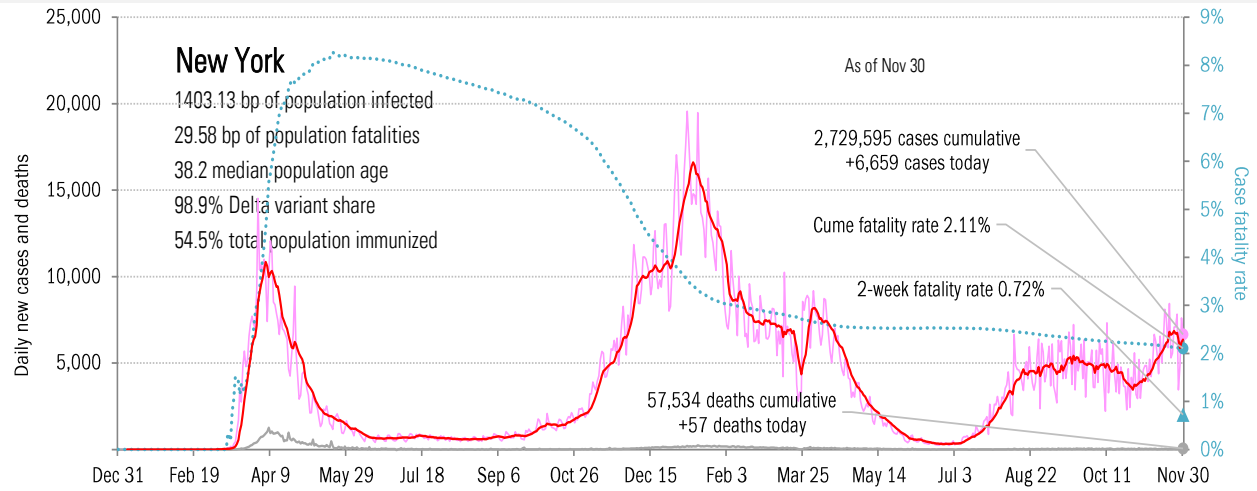
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

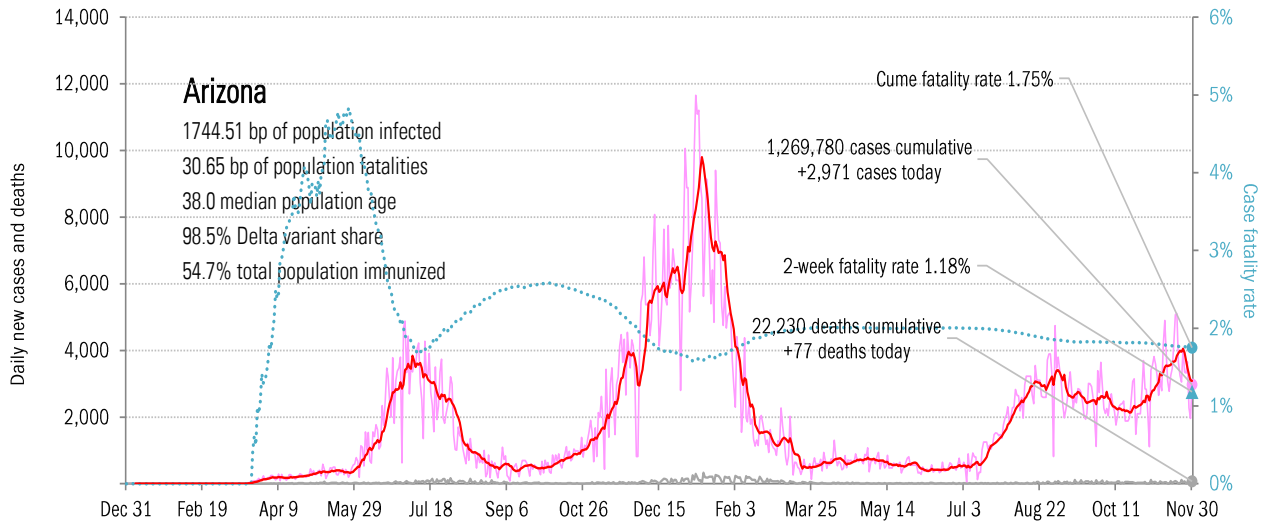
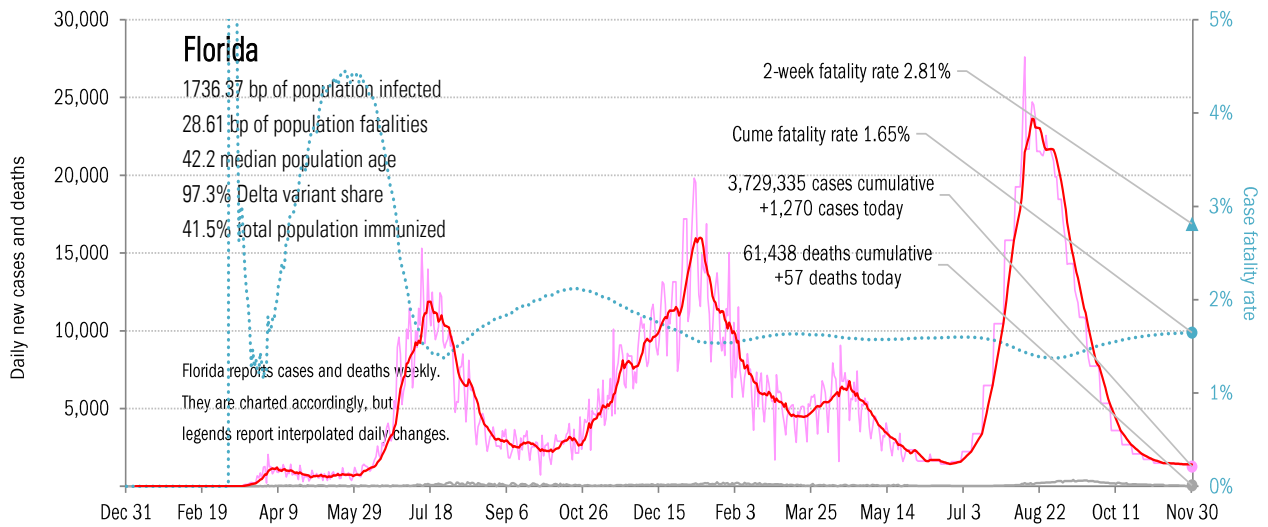
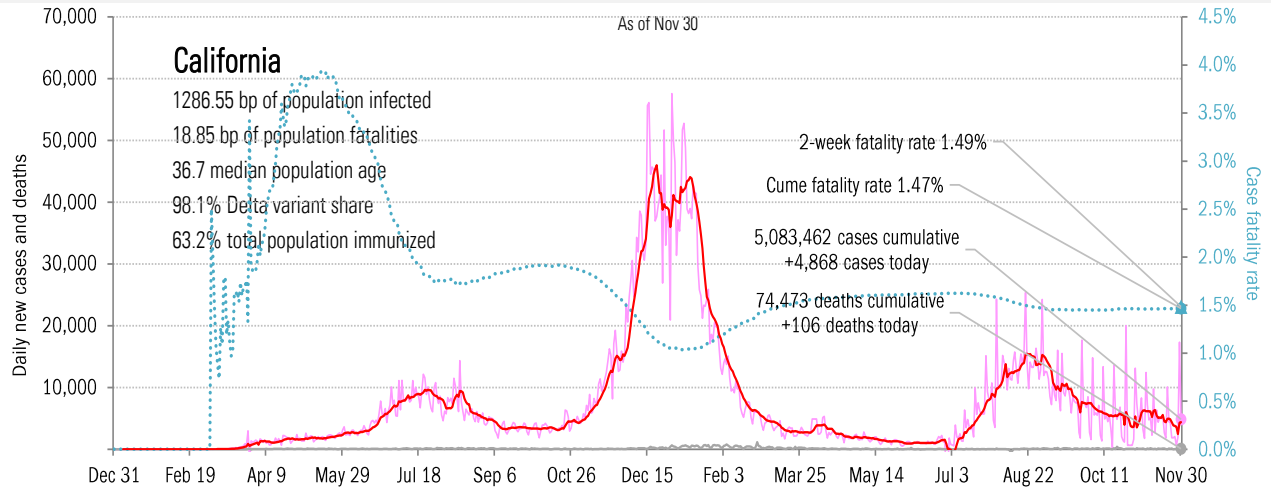
Cases: 7-day average and daily Deaths: Daily



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

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

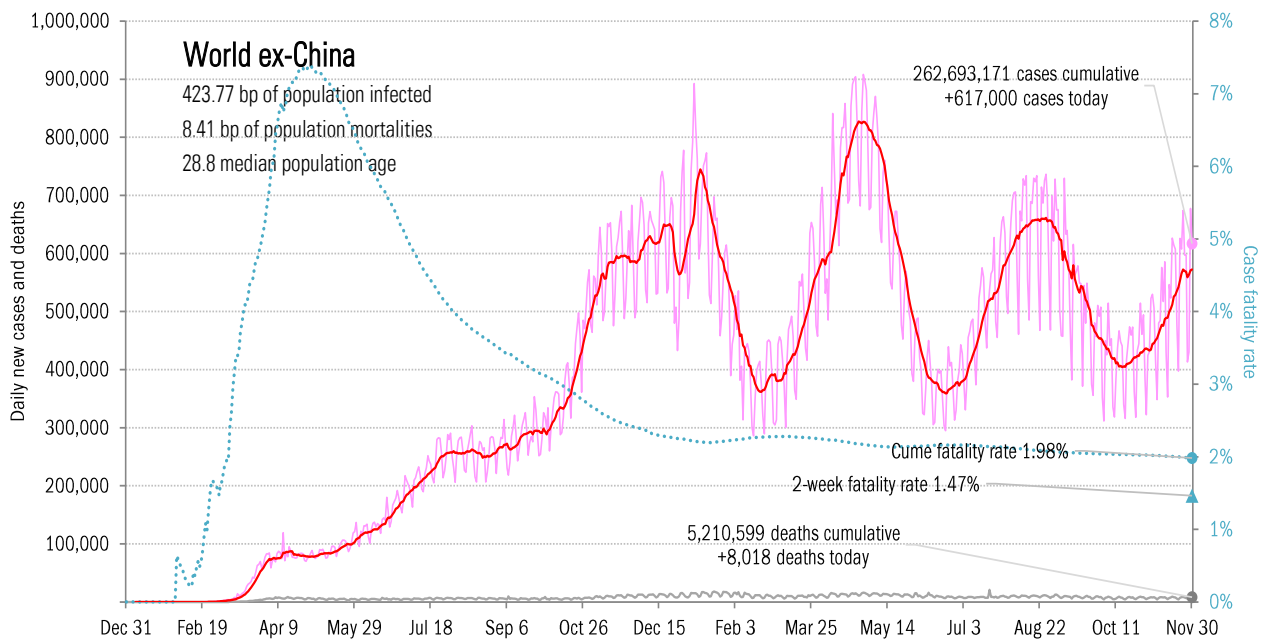
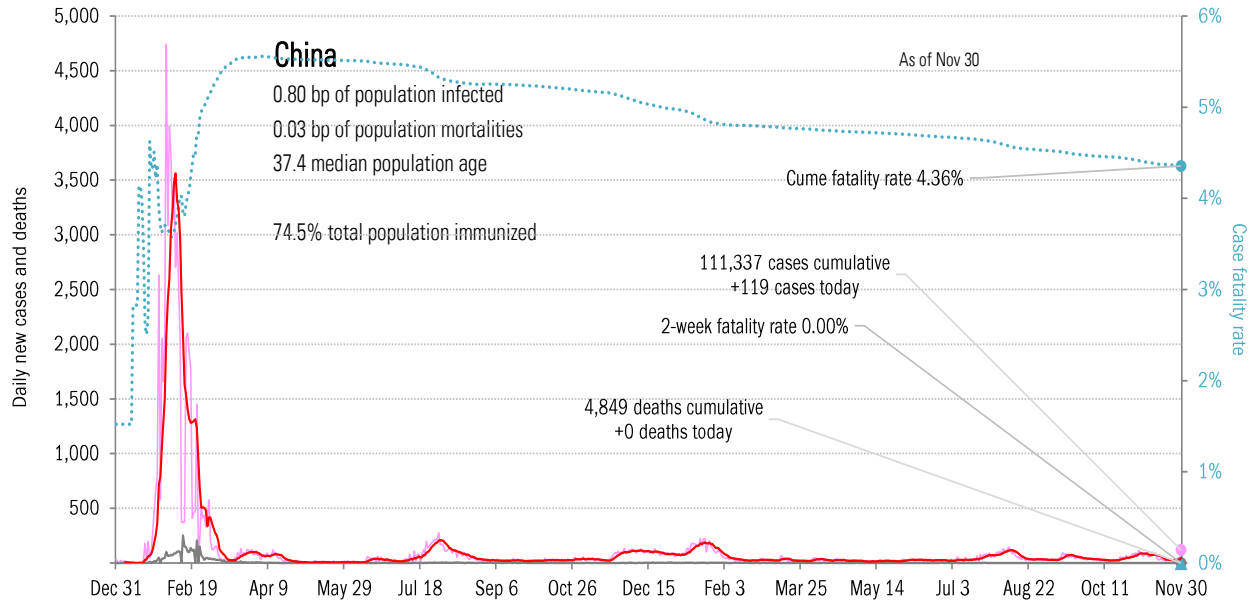
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

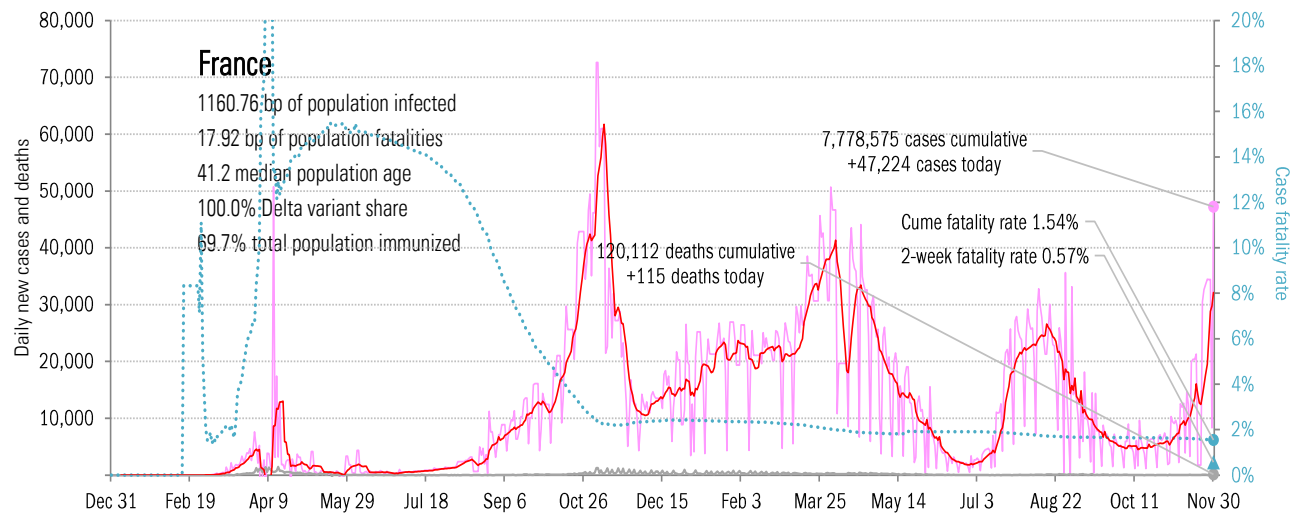
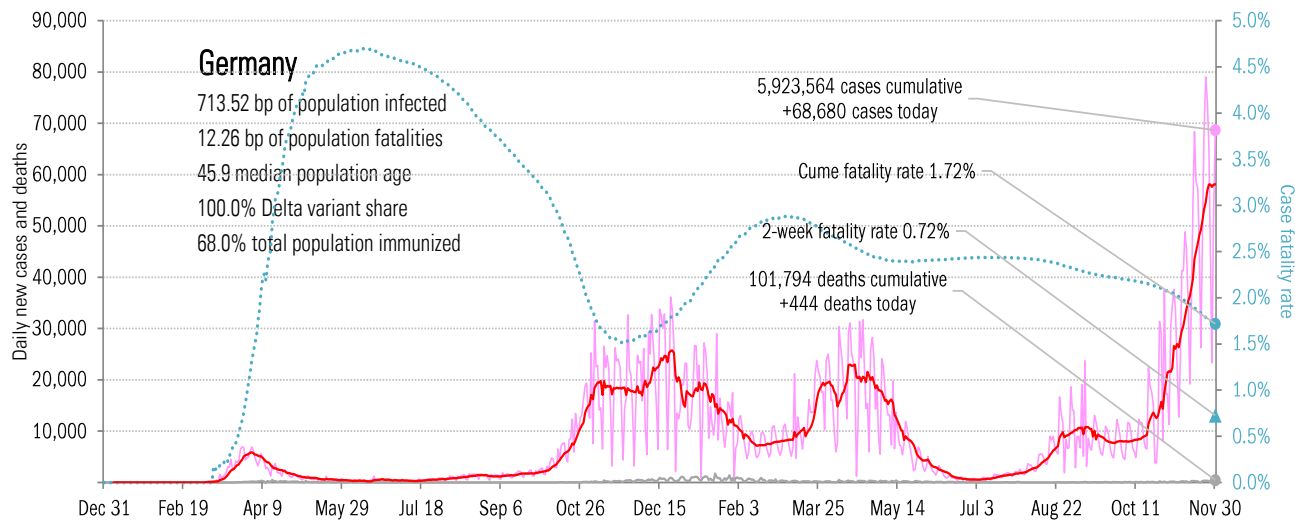
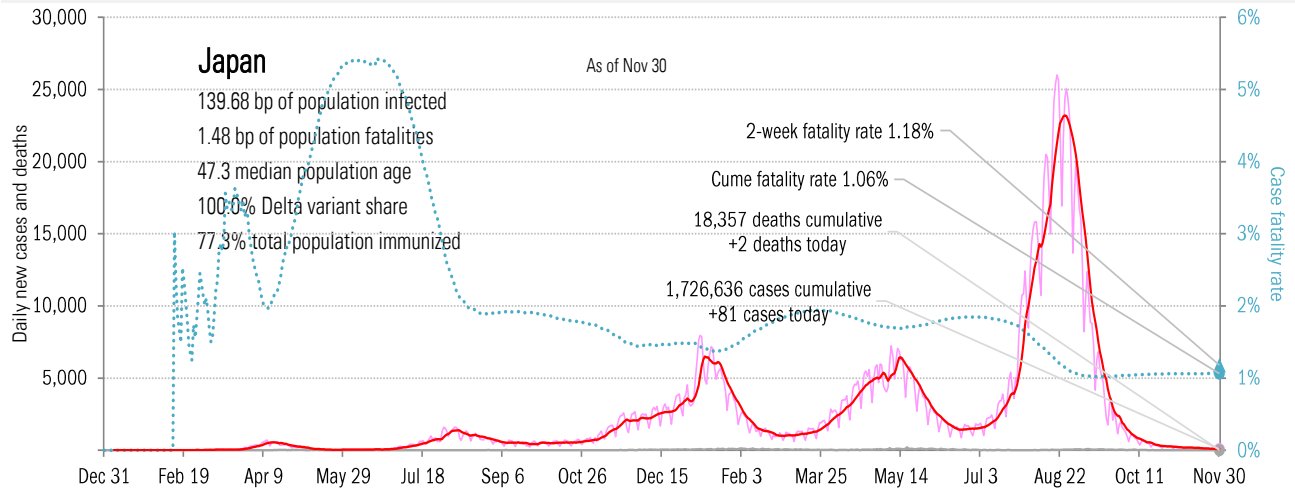
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

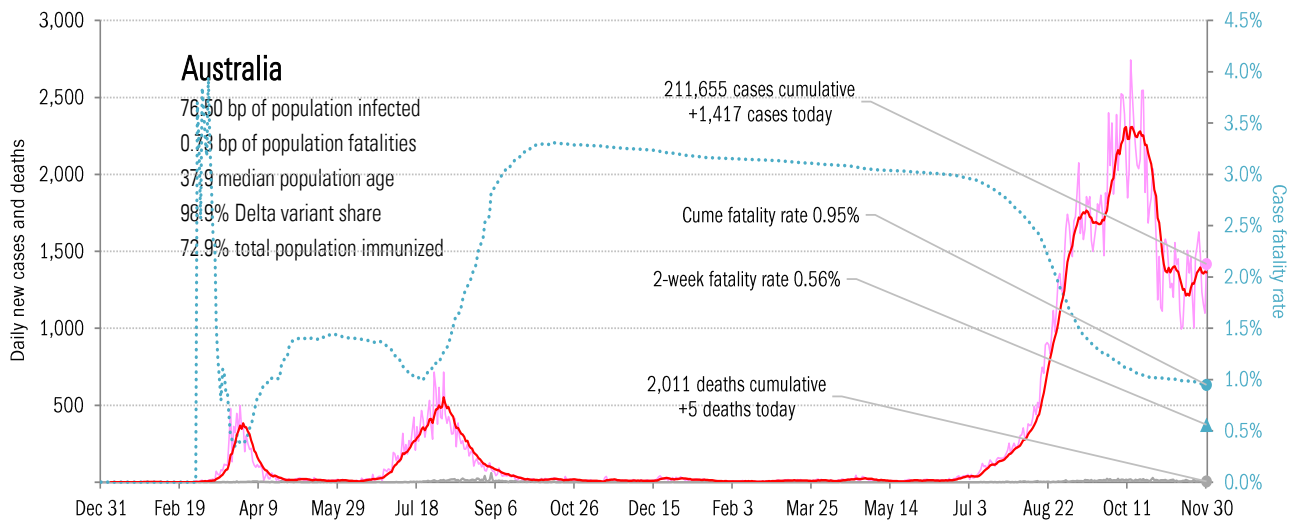
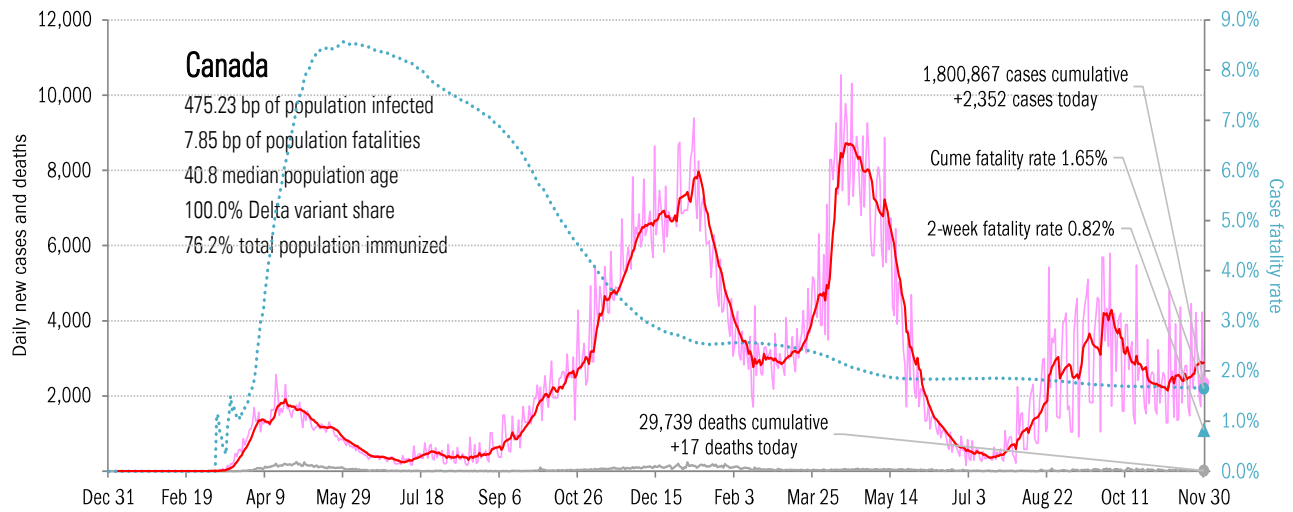
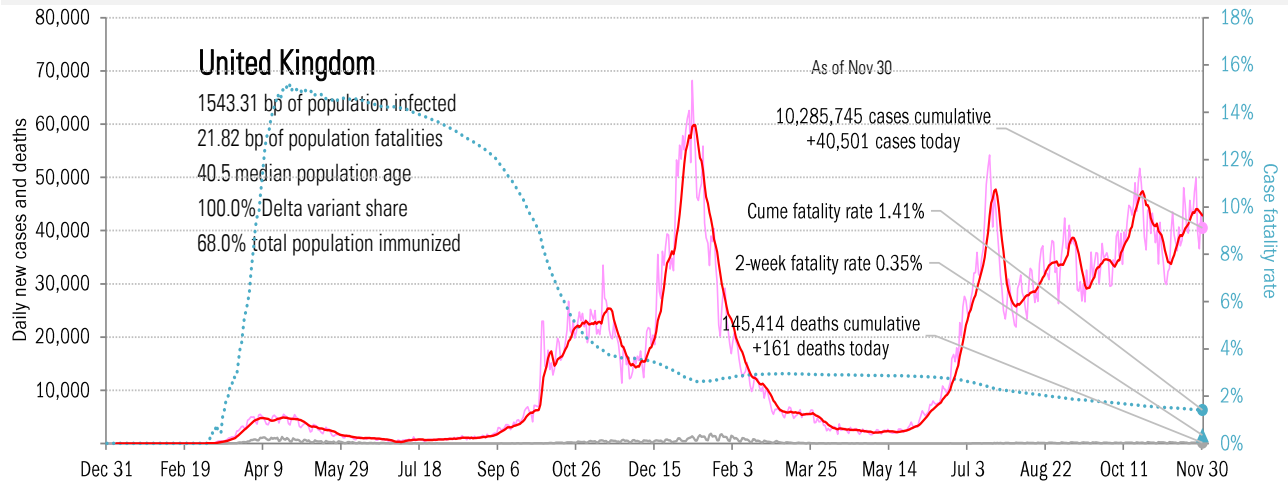
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

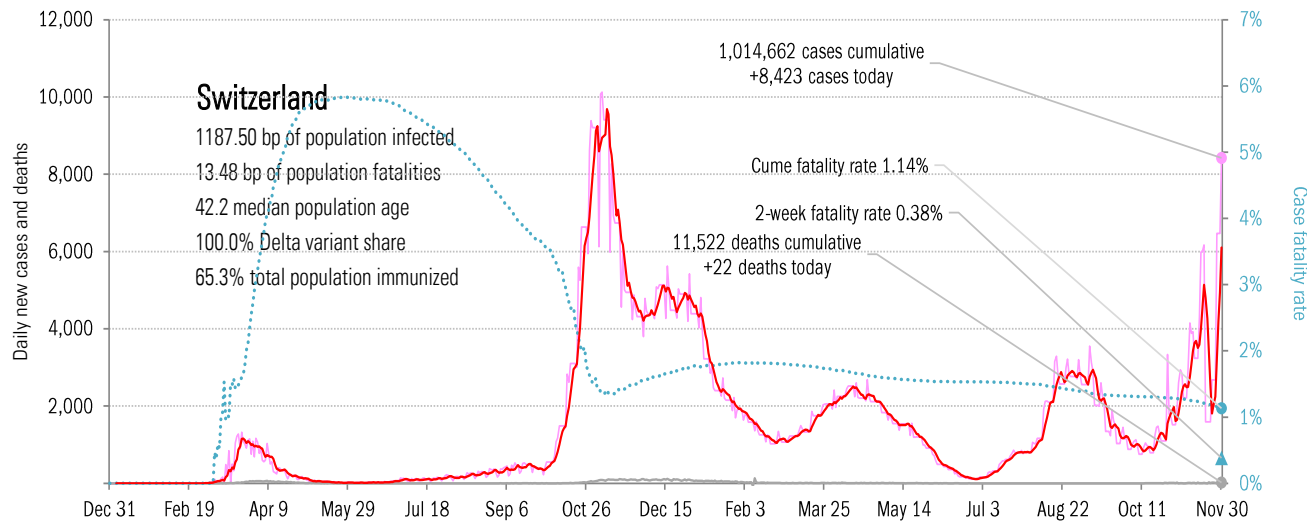
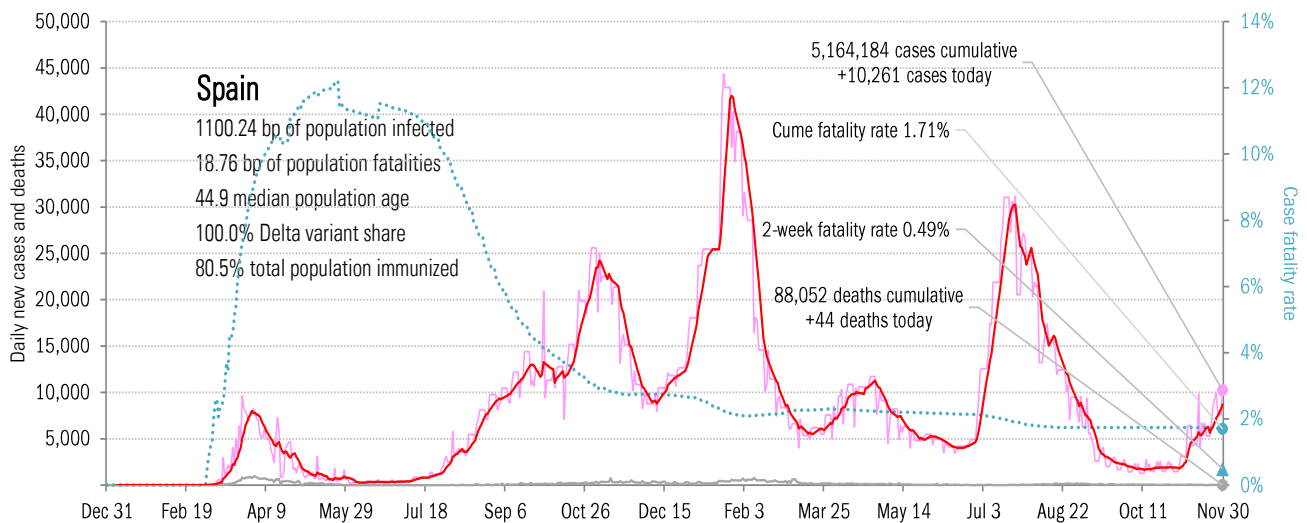
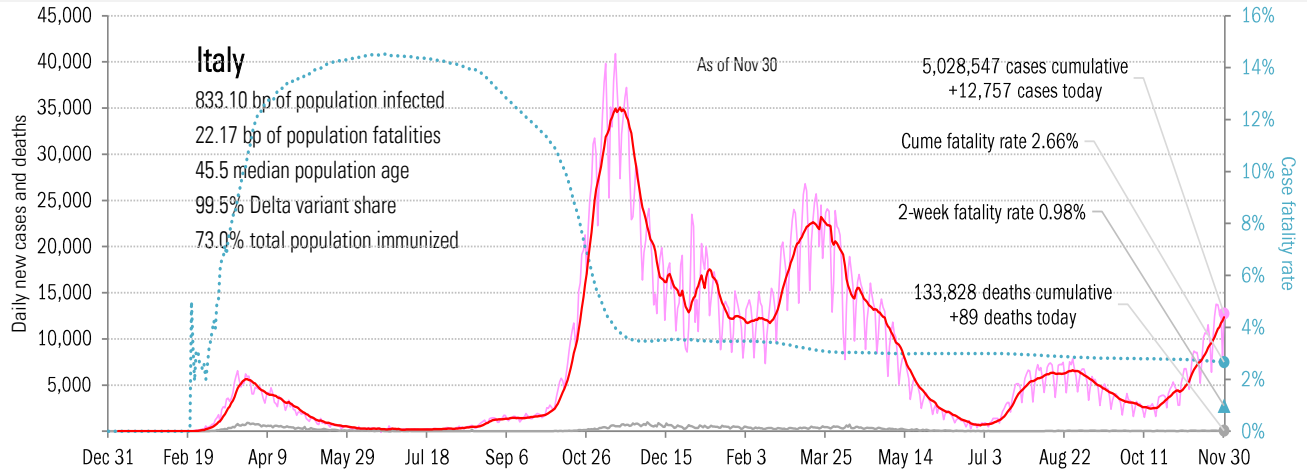
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

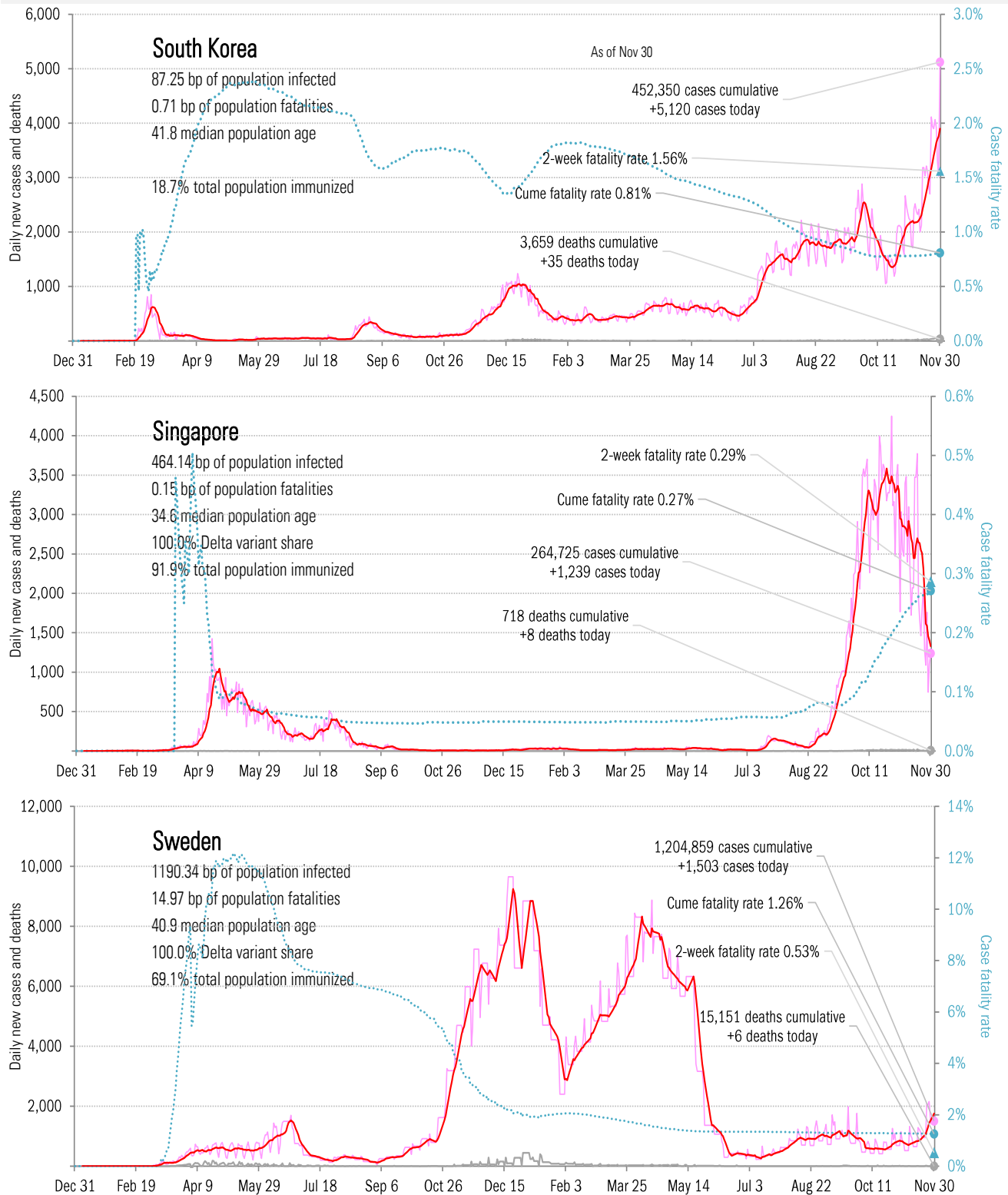
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

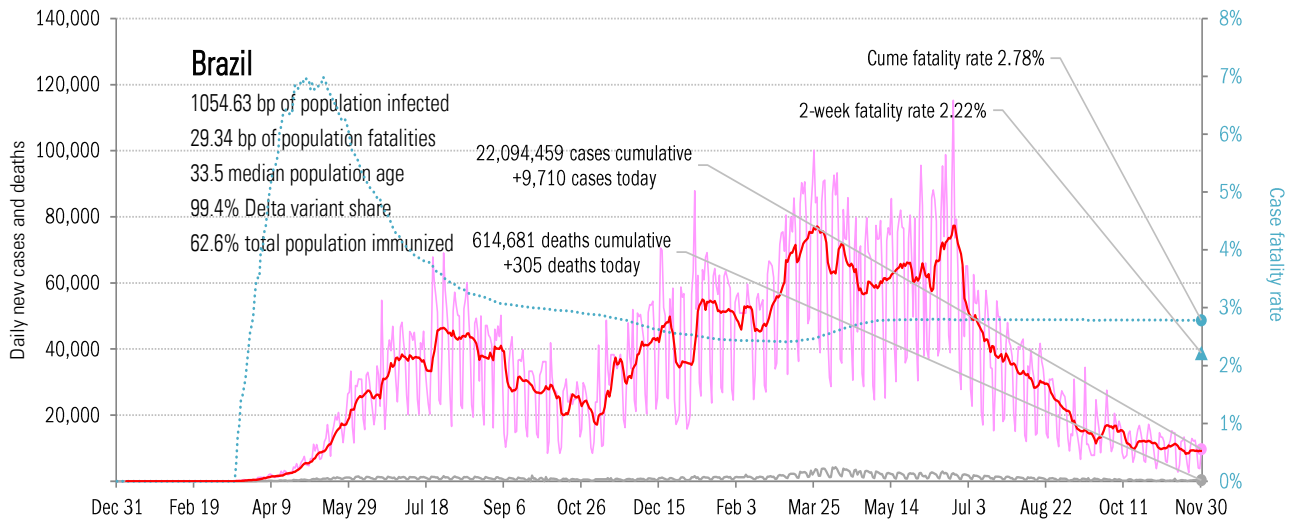
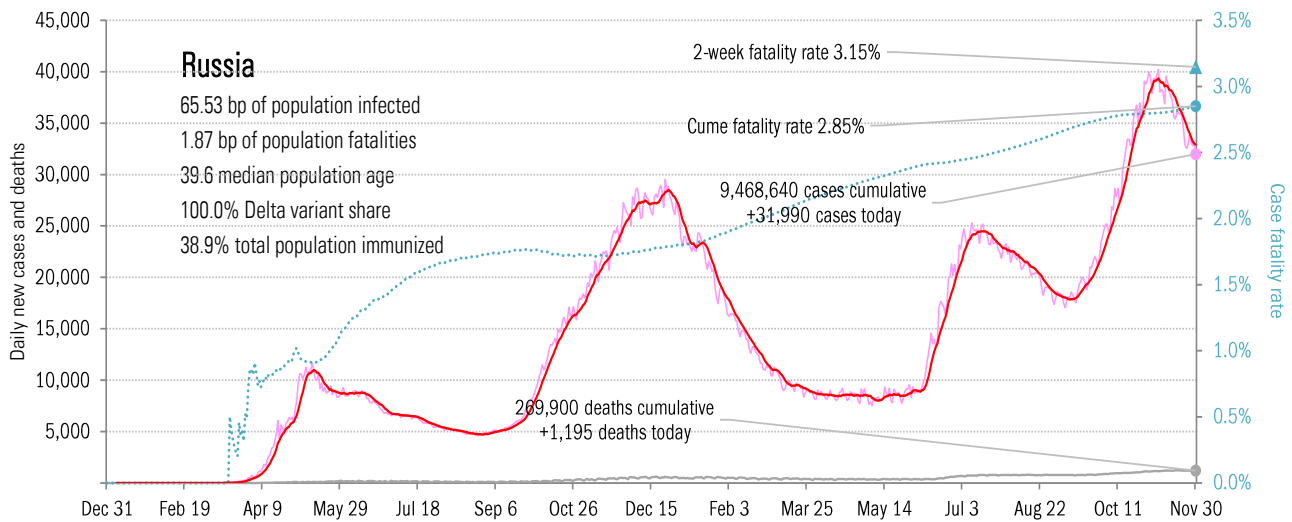
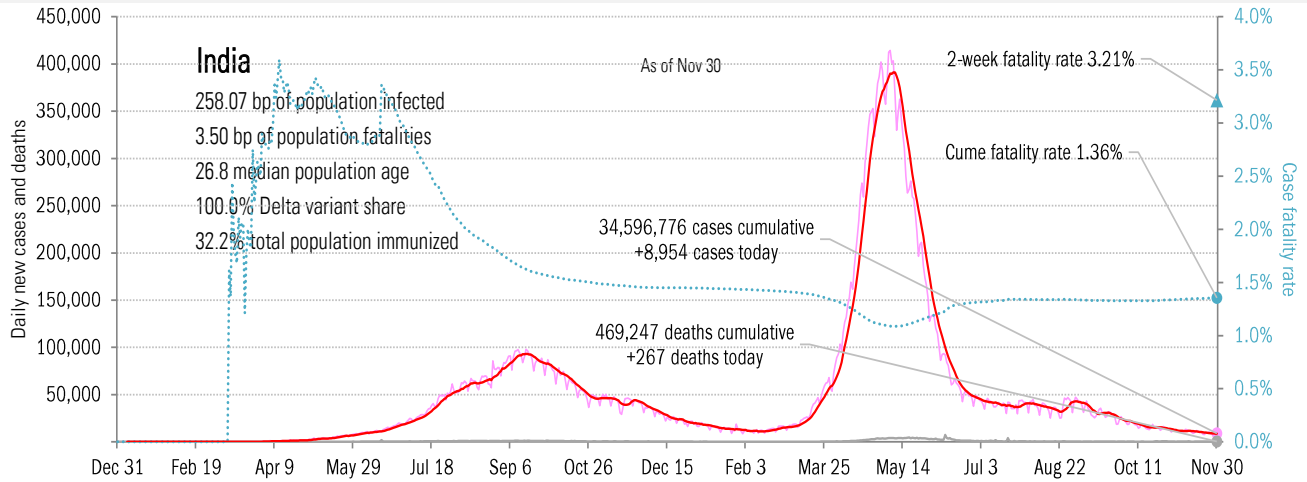
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

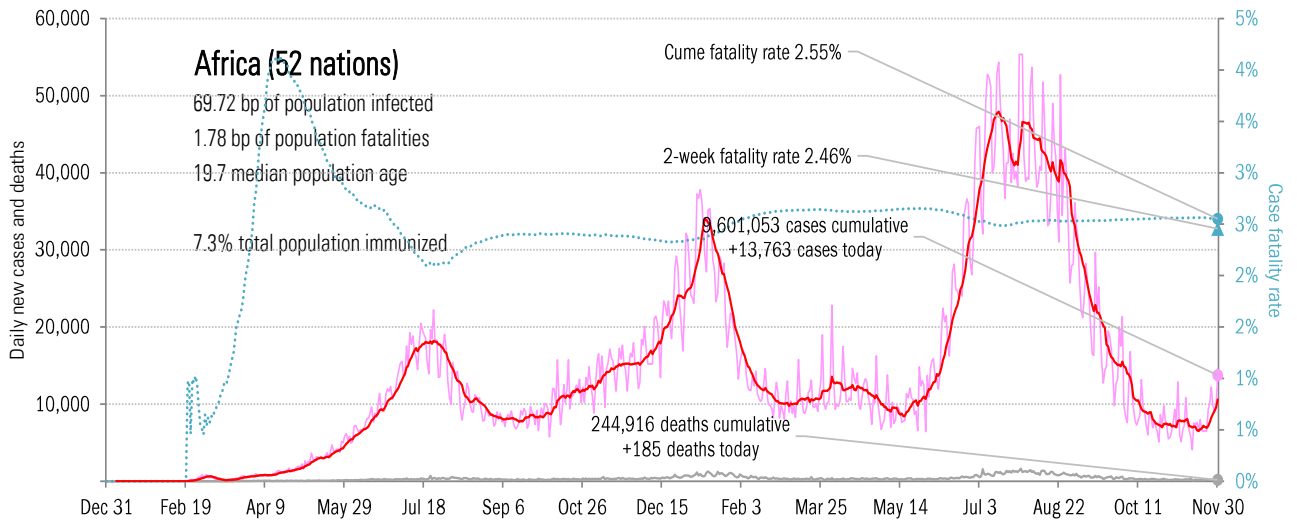
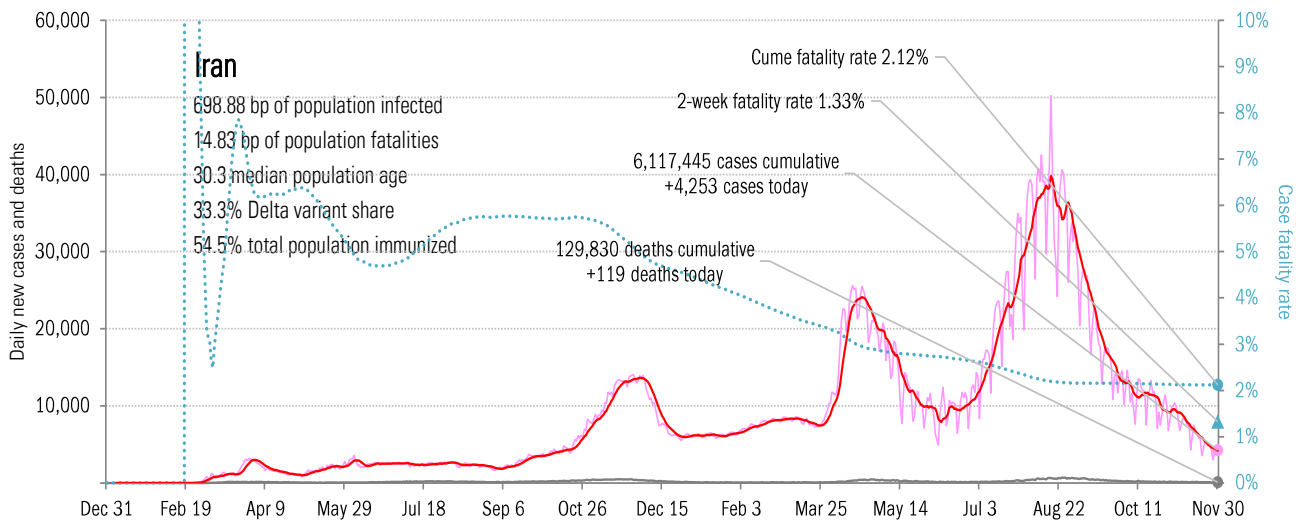
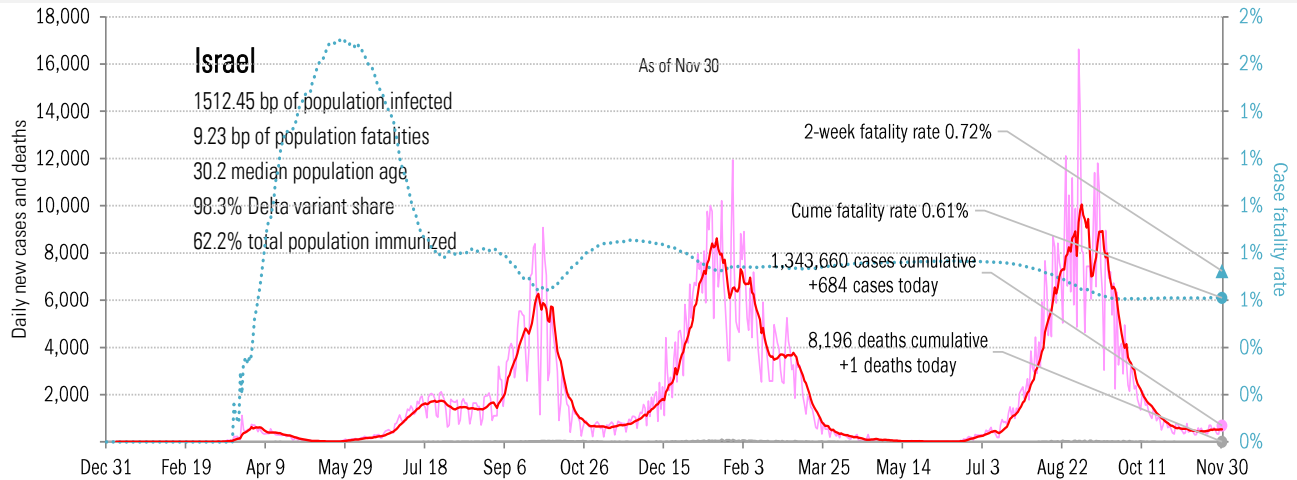
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

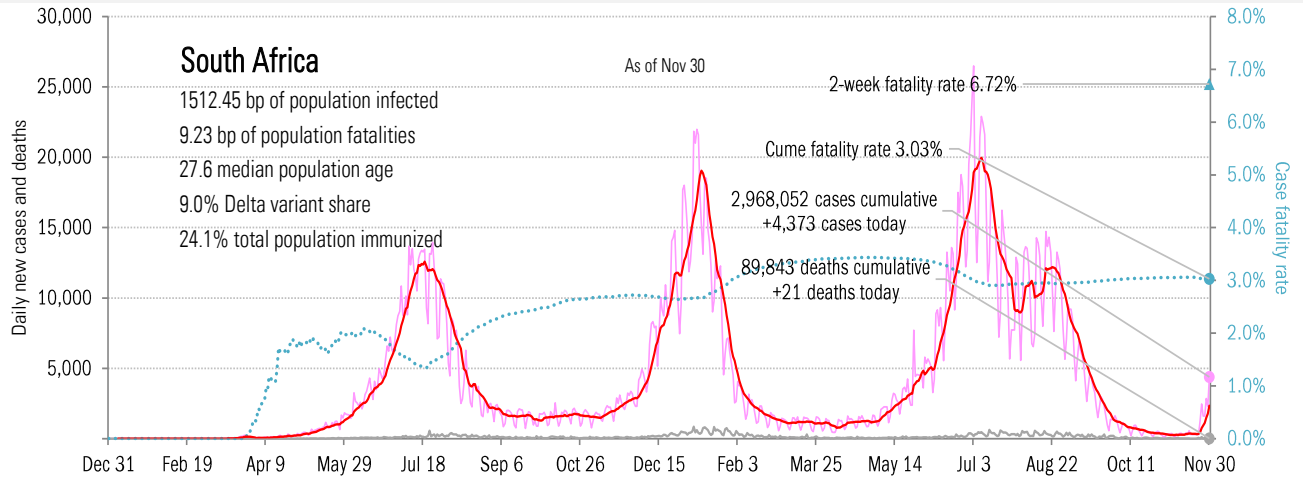
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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