

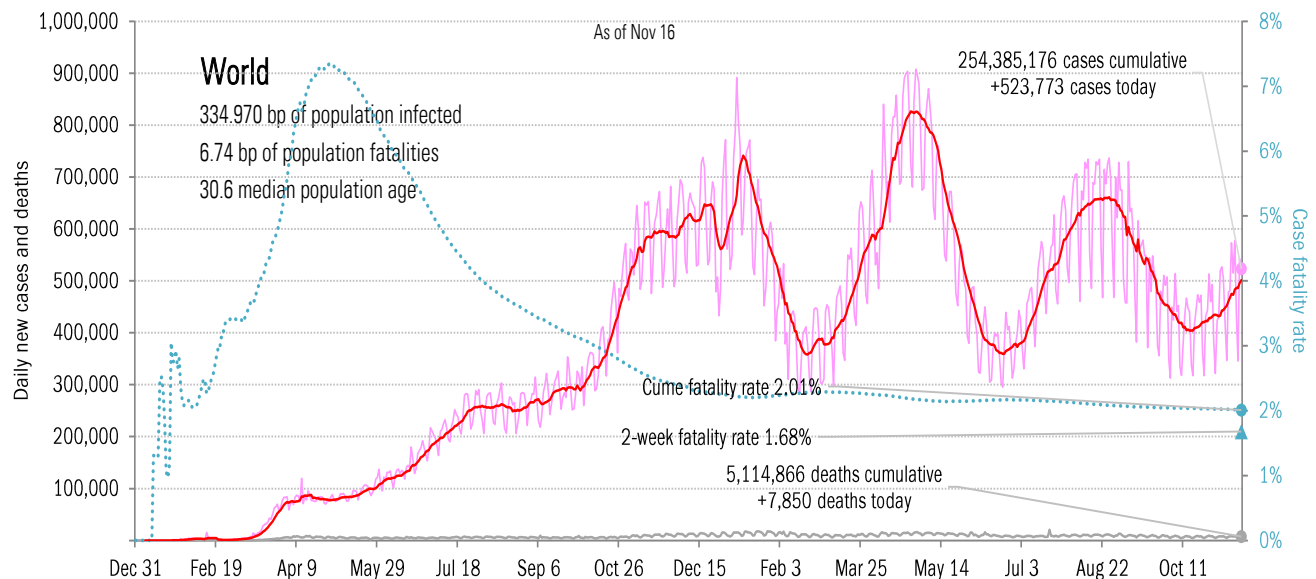
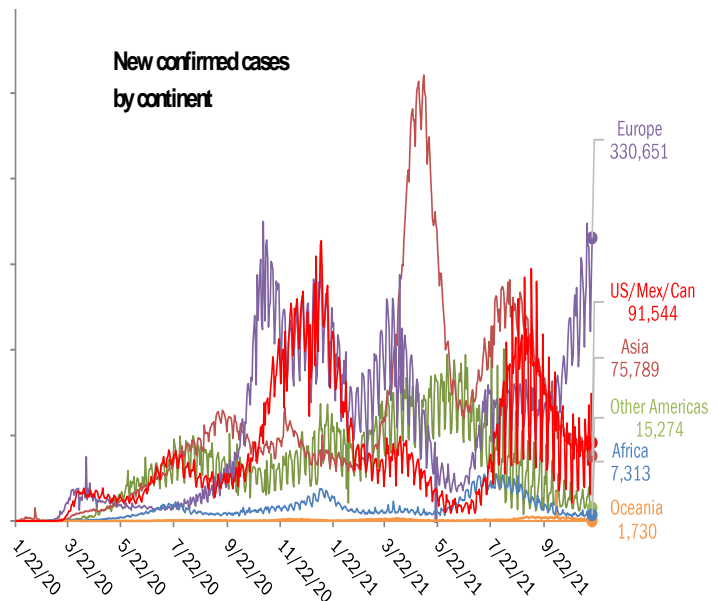
Data Insights: Covid-2019 Monitor

Wednesday, November 17, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+88,953	United States	+1,508
Germany	+53,627	Russia	+1,213
United Kingdom	+37,130	Ukraine	+865
Russia	+35,612	Romania	+397
Turkey	+25,101	India	+301
Netherlands	+20,210	Germany	+292
France	+19,884	Poland	+282
Ukraine	+17,514	Turkey	+227
Poland	+16,611	United Kingdom	+214
Belgium	+12,388	Hungary	+165
+327,030		+5,464	
World +523,773		World +7,850	
Top ten 62%		Top ten 70%	



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

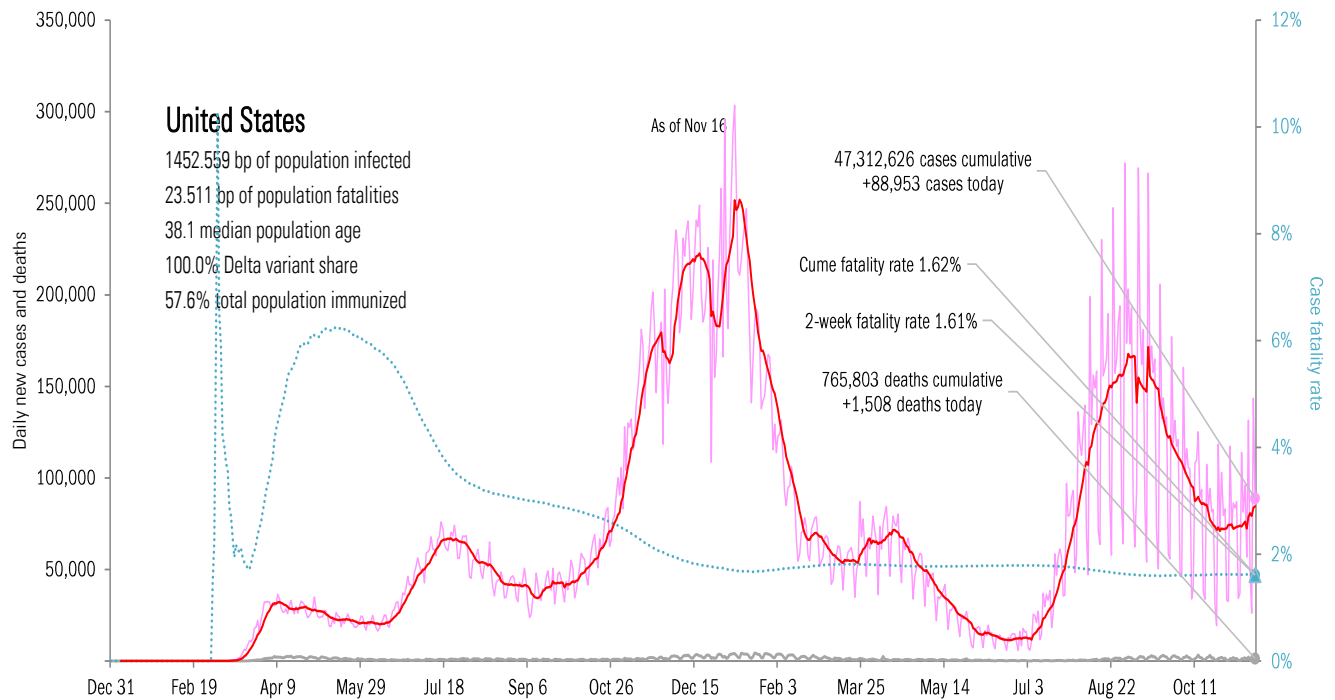
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
MN	+10,904		CH	+170		GA	+64		CA	5,017,658		CA	73,299		TX	379,368		RI	86%	NM	92%
PA	+5,778		AZ	+83		CH	+57		TX	4,292,434		TX	72,909		FL	321,176		MA	84%	KY	86%
CH	+5,639		PA	+72		KY	+45		FL	3,715,230		FL	60,838		CA	315,958		PA	83%	ID	85%
TX	+5,132		TX	+71		MI	+32		NY	2,638,106		NY	57,020		NY	167,467		MI	83%	RI	84%
NY	+5,024		CA	+66		PA	+22		IL	1,747,513		PA	32,483		GA	161,723		MD	82%	AL	83%
CA	+4,962		MO	+62		NE	+19		PA	1,654,063		GA	29,901		CH	128,526		GA	81%	MI	83%
WI	+4,640		FL	+61		AZ	+14		GA	1,650,756		IL	28,570		PA	121,010		MN	81%	TX	82%
AZ	+3,240		TN	+57		MN	+10		CH	1,614,054		NJ	28,200		KY	112,798		WA	80%	MN	82%
CO	+3,068		CO	+56		MS	+9		NC	1,507,915		CH	25,813		IL	107,256		NY	80%	PA	82%
IL	+3,005		OR	+52		IN	+3		MI	1,370,035		MI	24,408		MI	96,691		CT	78%	CO	81%
+51,392			+750			+275			25,207,764			433,441			1,911,973						
All states	+88,953			+1,508			-490		All states	47,312,626			765,803			3,427,711		All states	70%		67%
Top ten	58%			50%			-56%		Top ten	53%			57%			56%		Median	75%		76%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-23,167	MI	-100	NY	-112	WV	+30 bp
IL	-5,917	CA	-56	CO	-99	GA	+20 bp
CO	-4,402	SC	-41	TX	-84	MS	+20 bp
MA	-3,663	VA	-41	CA	-79	MT	+20 bp
NC	-3,436	KY	-28	IL	-64	WA	+20 bp

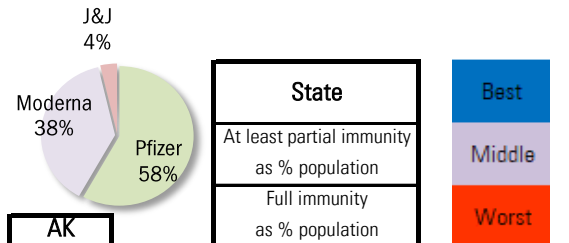


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

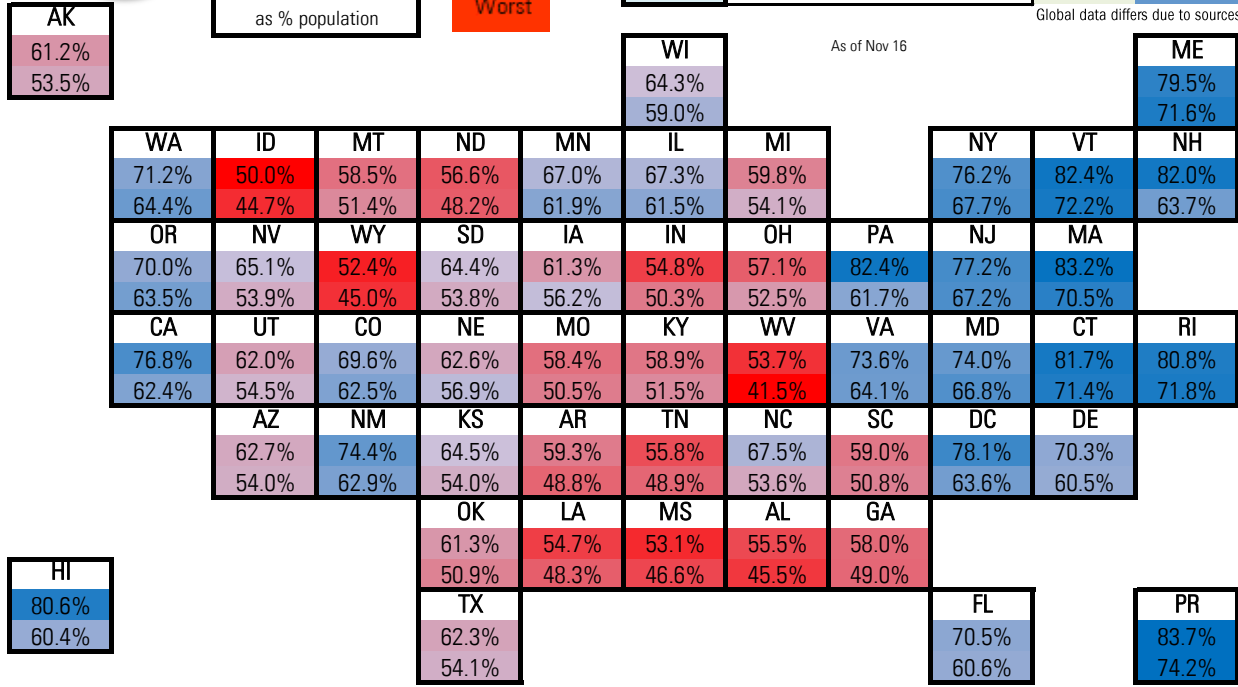
Administered	Cumulative	Today	Immunity	Full	Partial
Doses	455,585,546	+1.373 million	US	57.6%	67.5%
Boosters	31,222,969	+0.643 million	UK	67.5%	74.2%
	One dose	% Pop	Immune	% pop	New immune today
Total population	233,446,808	70%	200,477,953	60%	+0.160 million
Age 12 to 17	14,456,758	61%	12,140,002	51%	+0.014 million
Age 18 to 64	160,045,363	79%	138,601,334	68%	+0.121 million
Age 65 and over	56,221,999	100%	48,800,351	89%	+0.025 million

France	68.7%	76.3%
Spain	80.2%	81.6%
Germany	67.0%	69.5%
Italy	72.6%	77.7%
Australia	69.6%	76.0%
Israel	62.0%	67.4%
Canada	75.4%	79.0%
Japan	75.8%	78.8%
Africa	6.6%	9.8%
India	26.8%	54.1%
Brazil	59.8%	75.9%
China	74.4%	82.1%

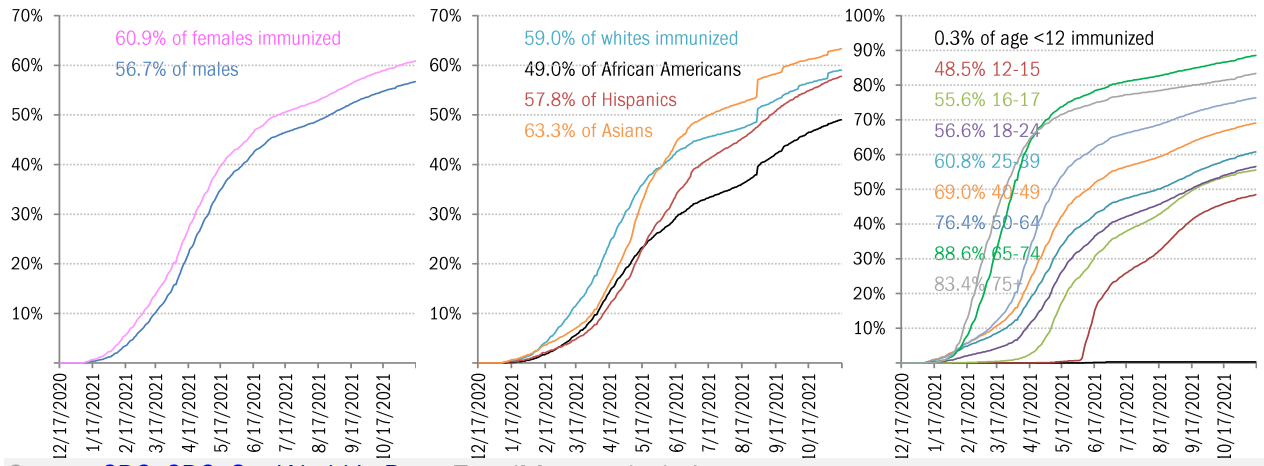


Every American >18 immunized in **183 days** by May 17, 2022
 72.6% of population >18 immunized
 16.9% previously tested positive
89.4% vs 60% adult herd immunity

Global data differs due to sources, timing



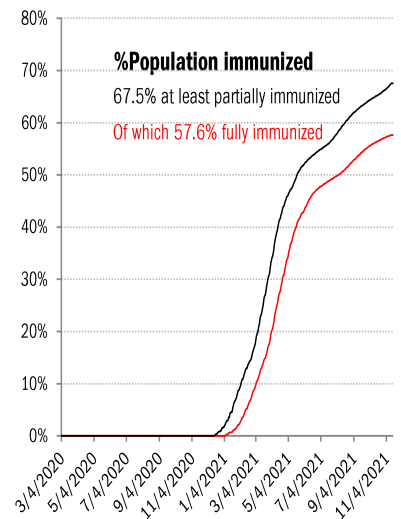
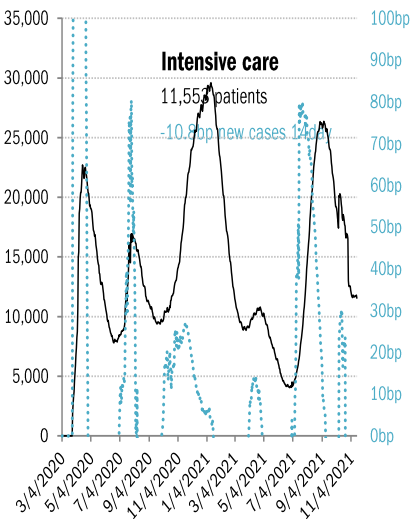
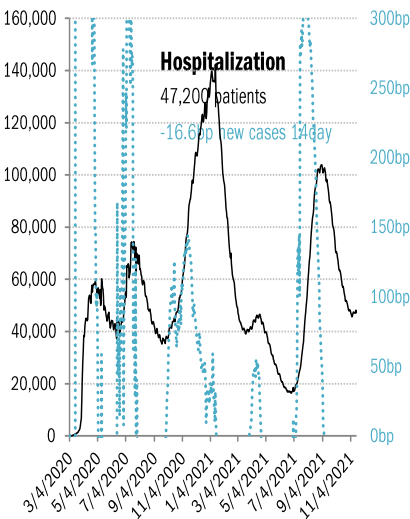
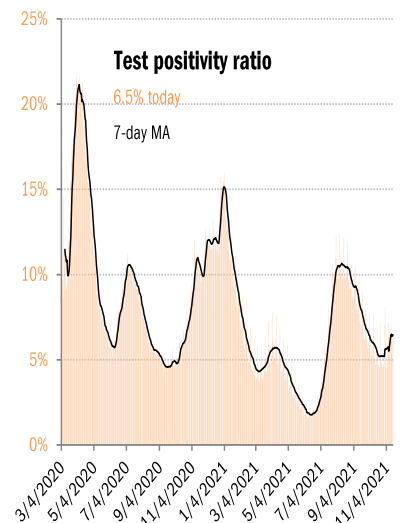
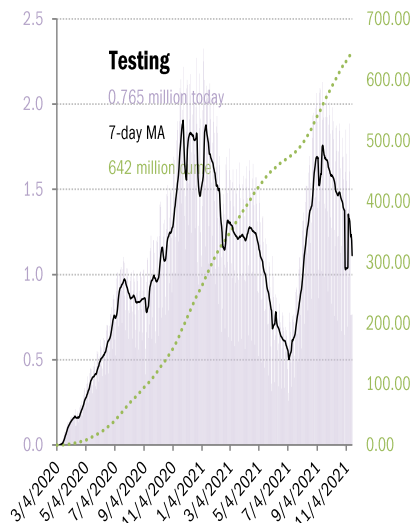
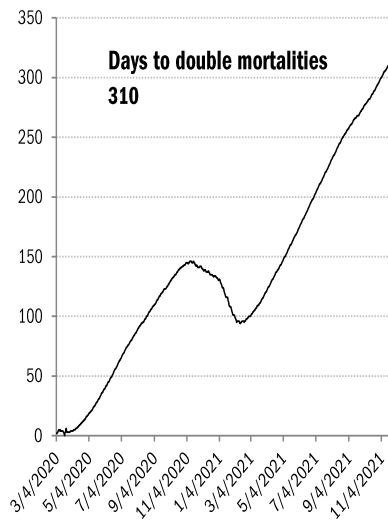
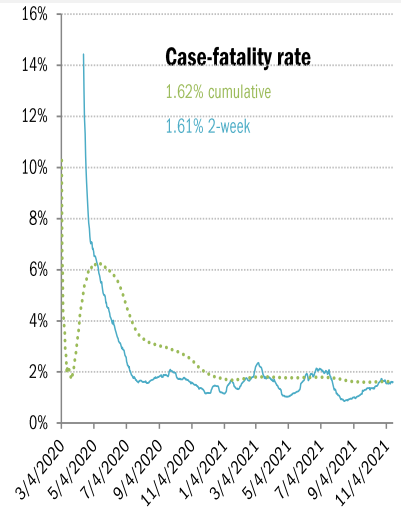
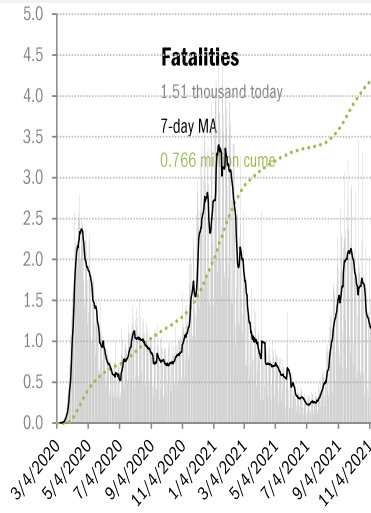
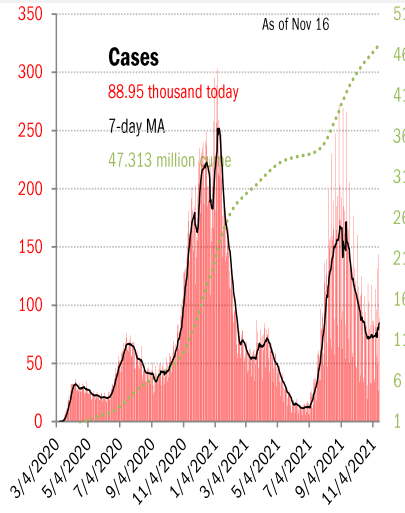
The demographics of US vaccination



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

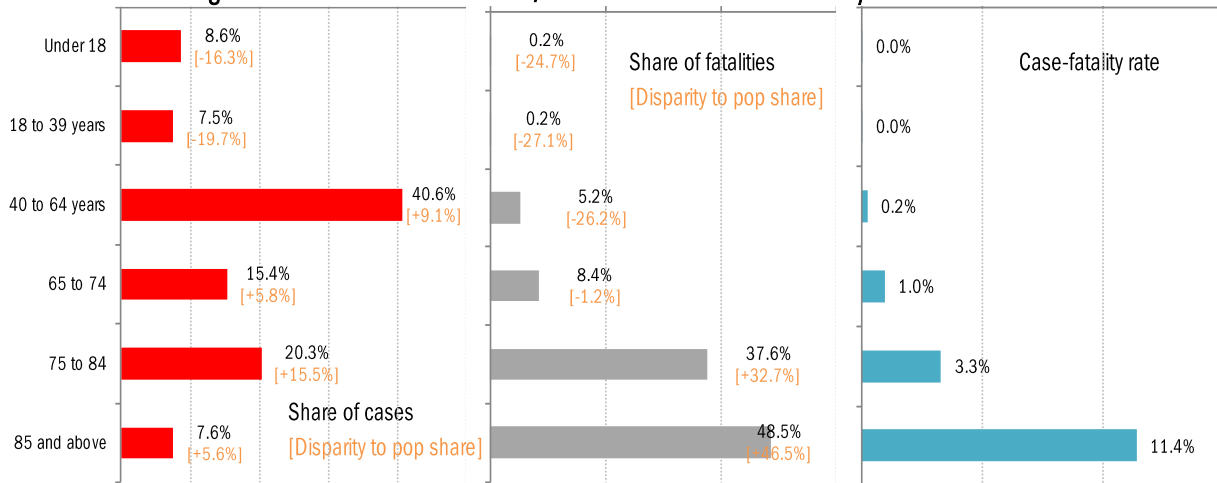
US deep-dive

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

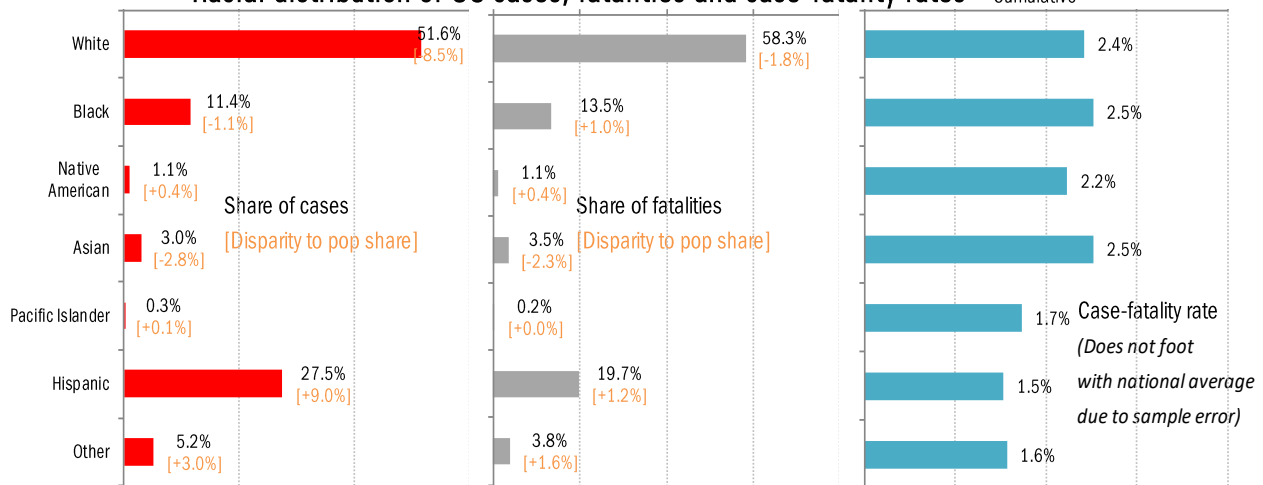


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

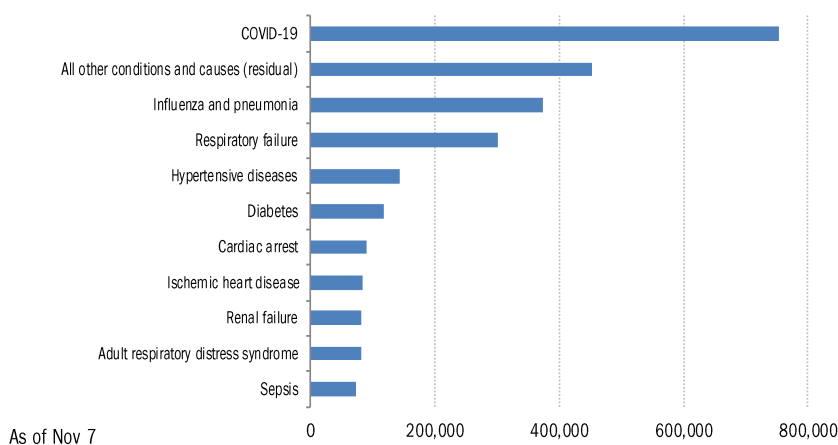


Racial distribution of US cases, fatalities and case-fatality rates



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

[The Worst of Both Worlds: Zooming From the Office](#)

Emma Goldberg
New York Times
November 16, 2021

[How Long Will Boosters Last?](#)

Kristen V Brown
Bloomberg
November 14, 2021

[F.D.A. Plans to Authorize Pfizer Boosters for All Adults This Week](#)

Noah Weiland and Sharon LaFraniere
New York Times
November 16, 2021

Meme of the day

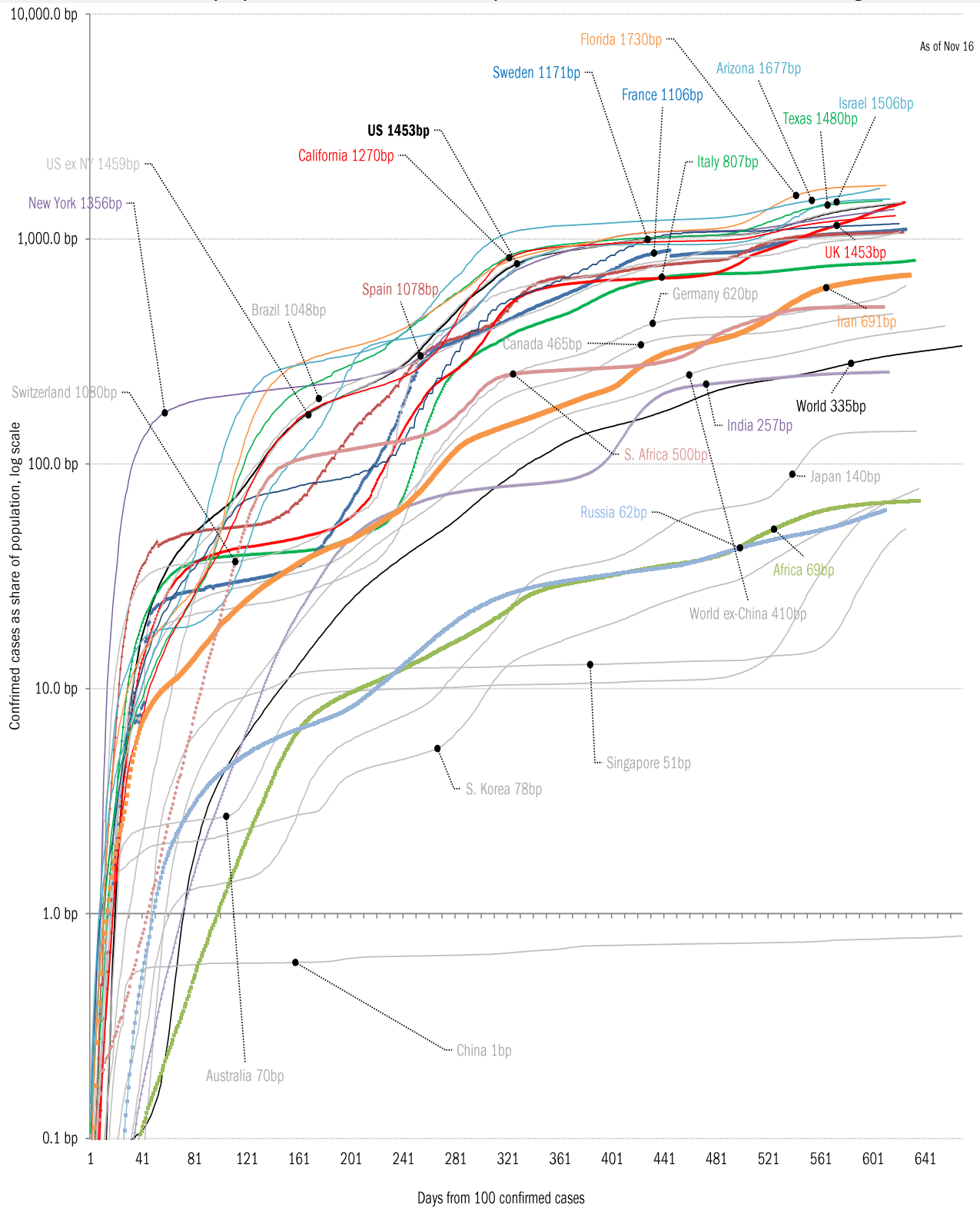


Now That He's Sold The Pfizer Vaccine, Here Are 10 More Upcoming Product Endorsements From Big Bird

The beloved Sesame Street character Big Bird is finally doing what he was born to do: sell pharmaceutical products to small children!... Read more

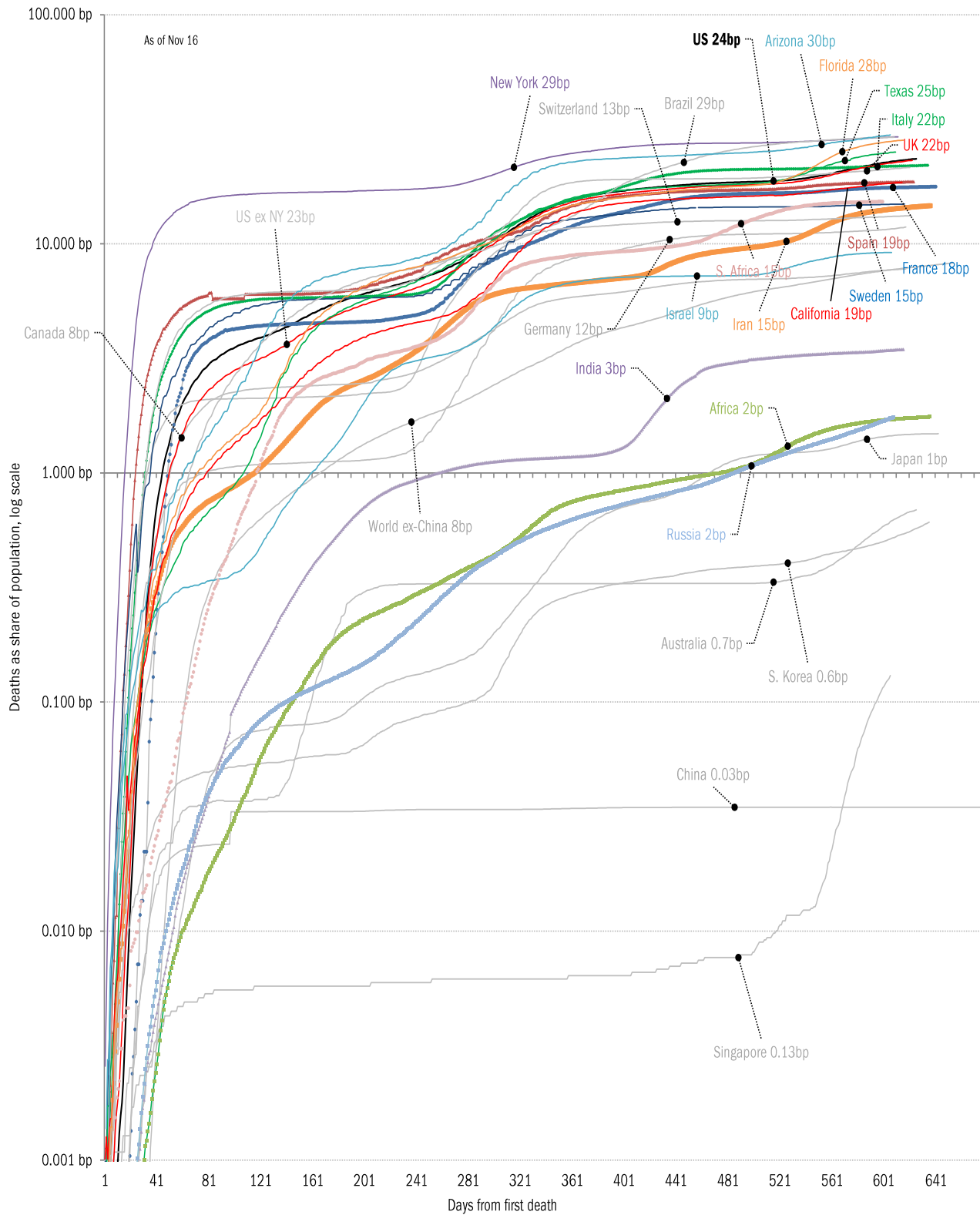
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

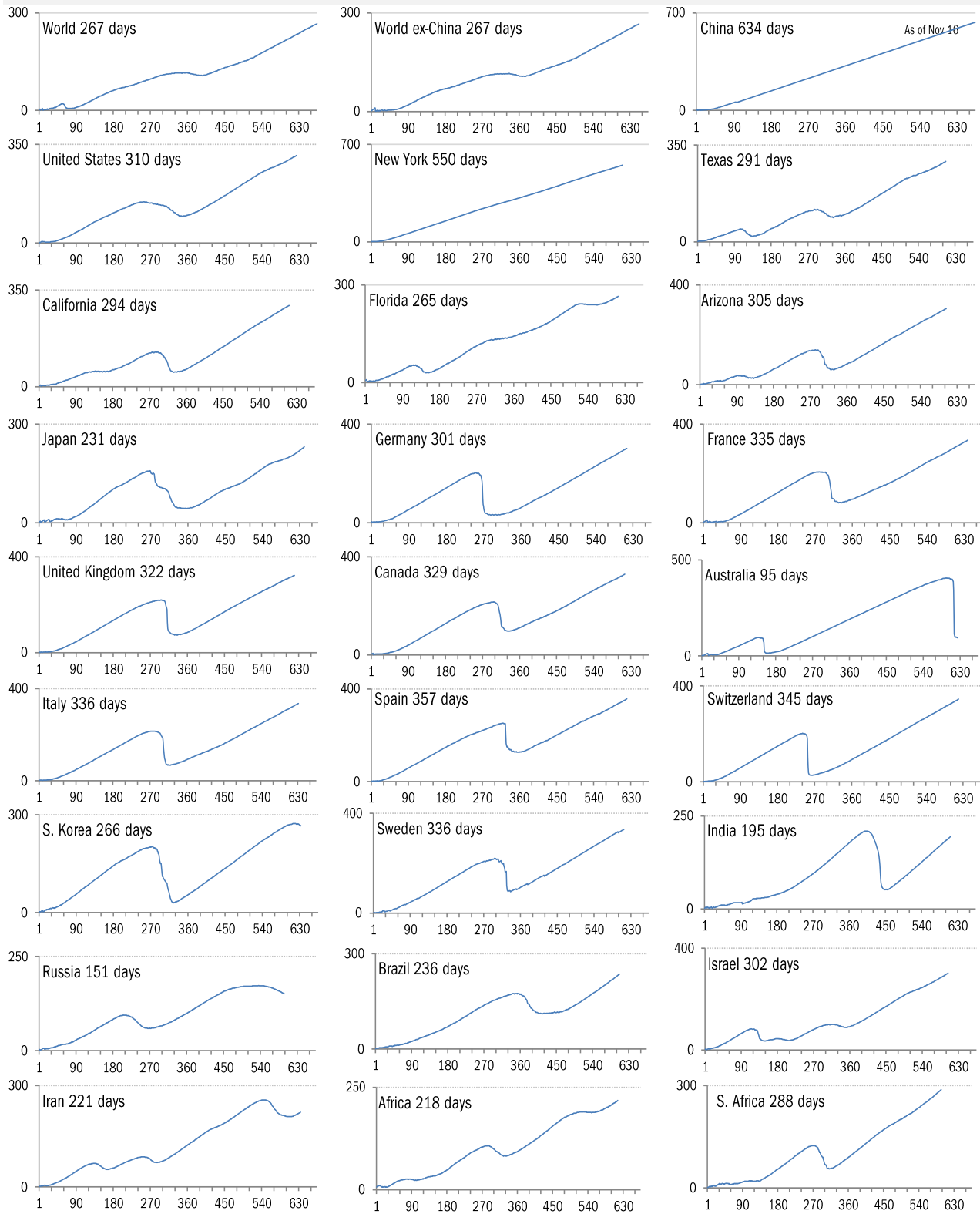


Source: [Johns Hopkins](#), TrendMacro calculations

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

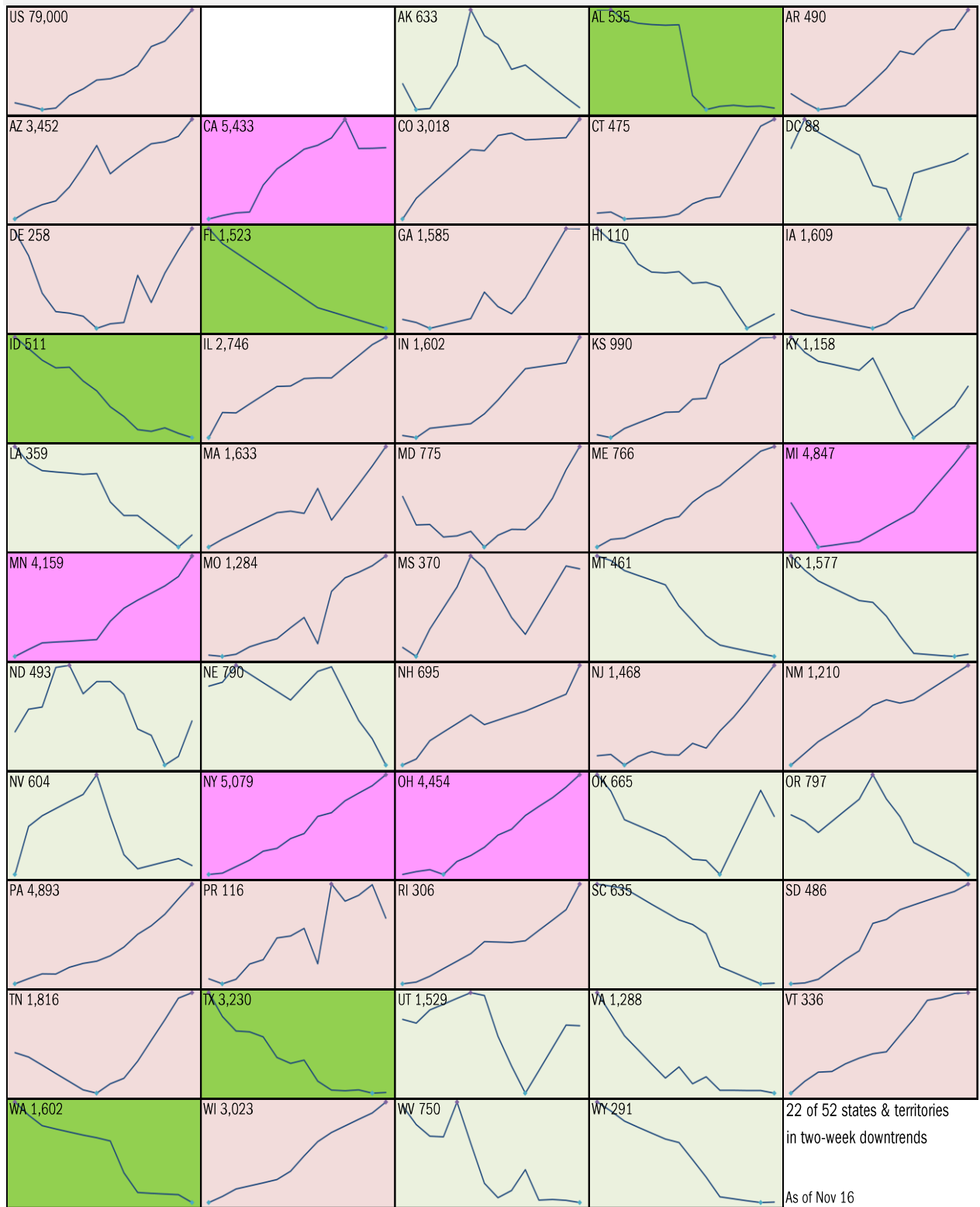
Vertical: days to double deaths Horizontal: days from first death

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



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

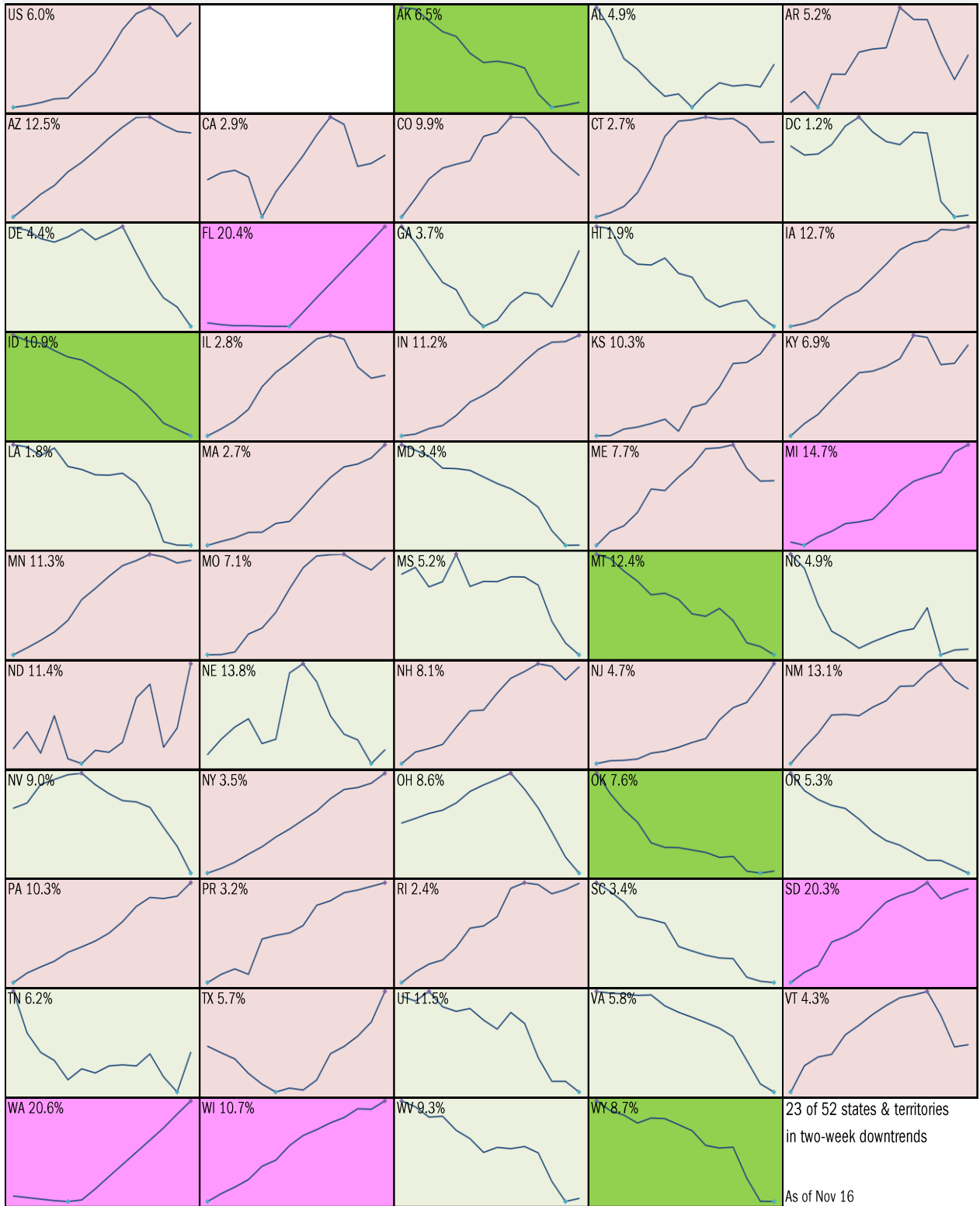
Requirement to [Open Up America Again](#): 14-day "downward trajectory" in new cases
 14-day moving average, last 14 days *Most recent value displayed* ● High ● Low
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

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

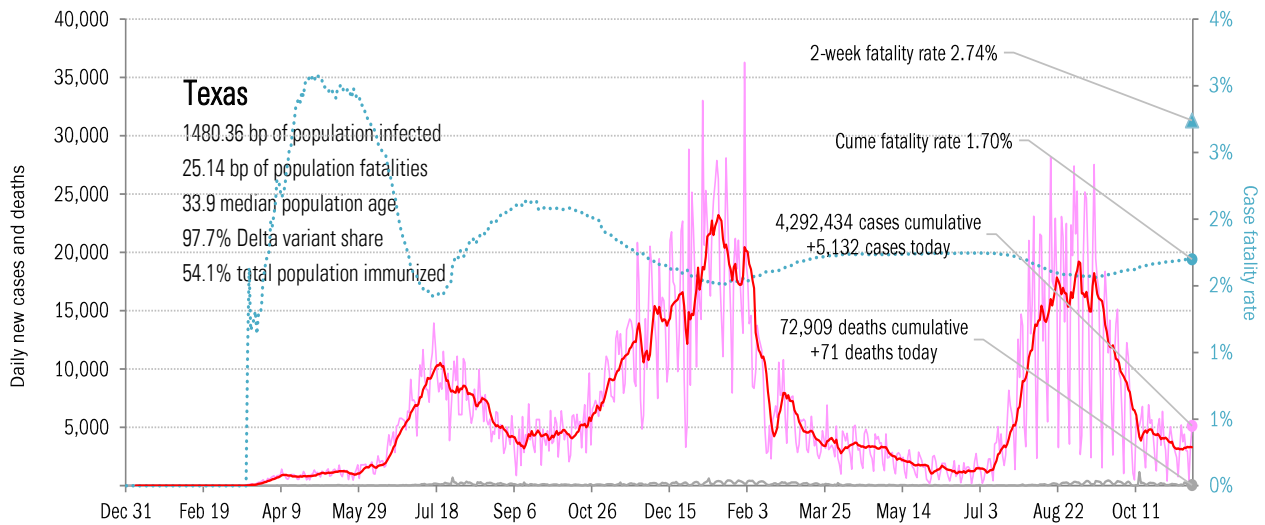
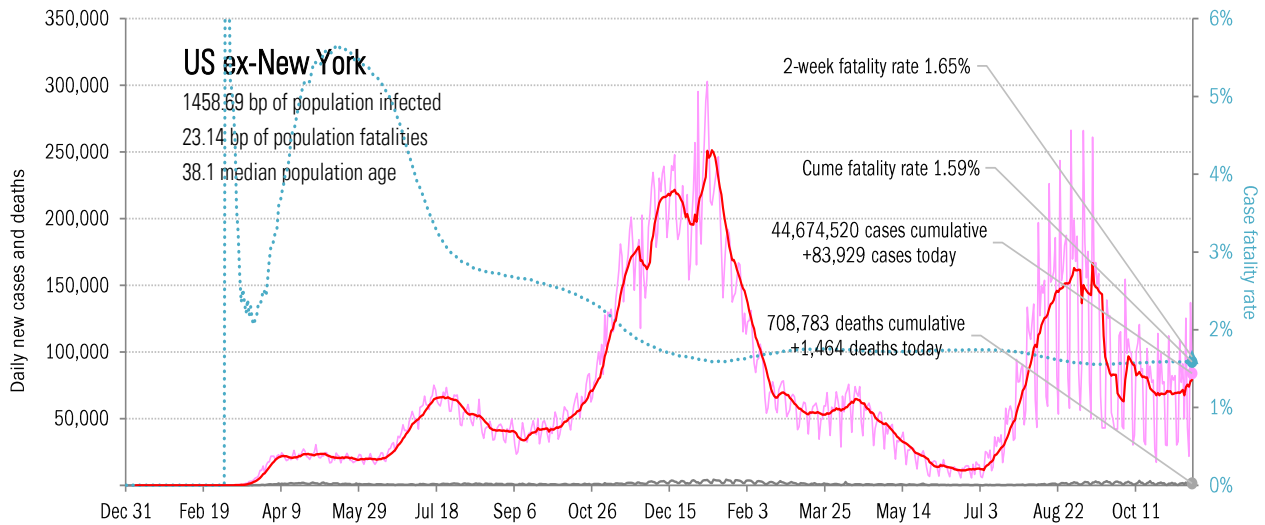
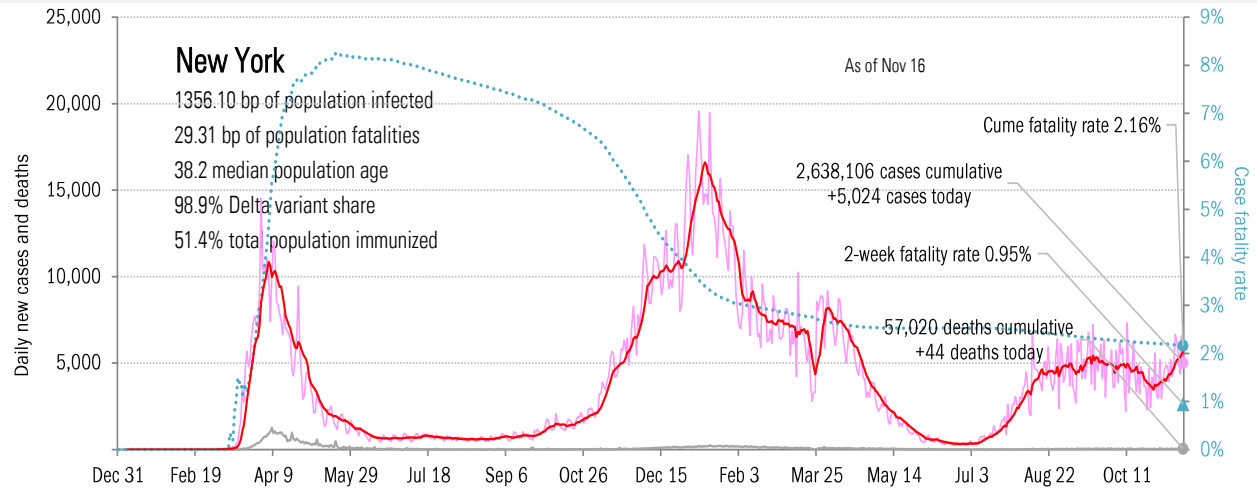
14-day moving average, last 14 days Most recent value displayed ● High ● Low
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Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande

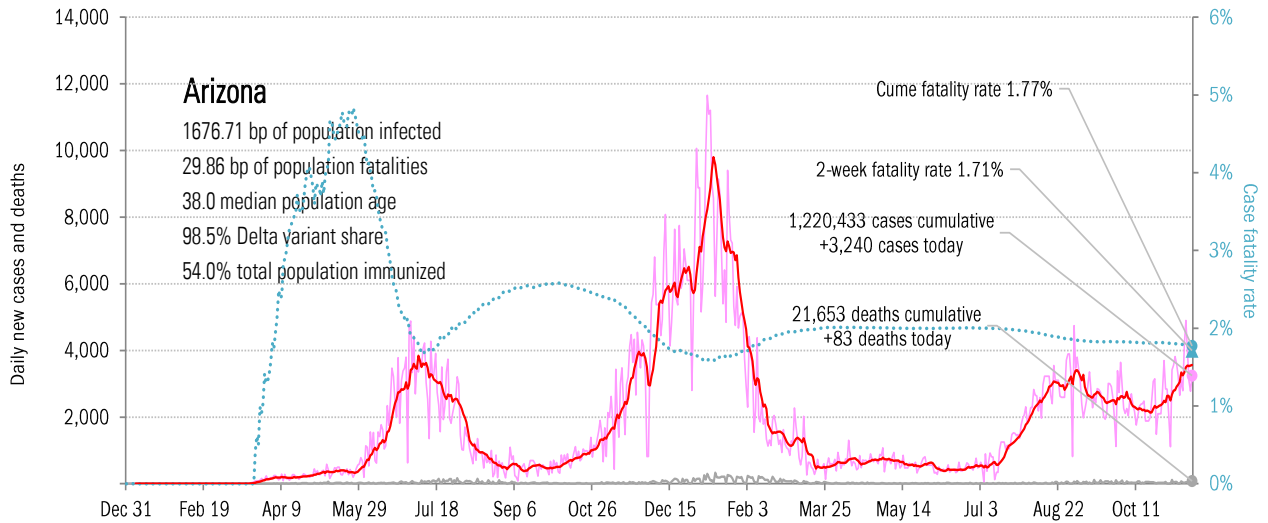
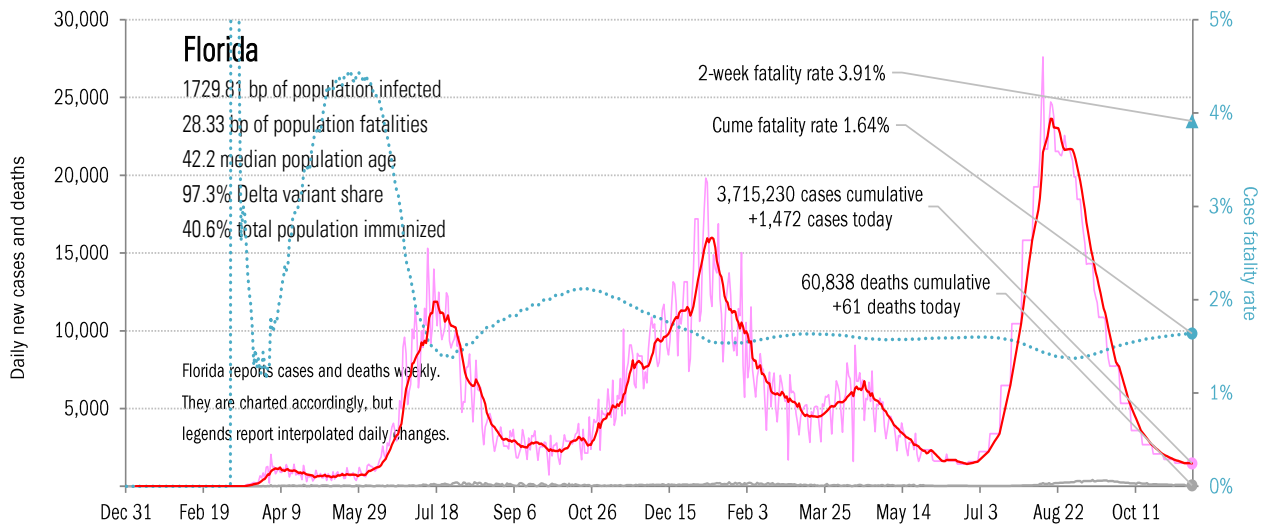
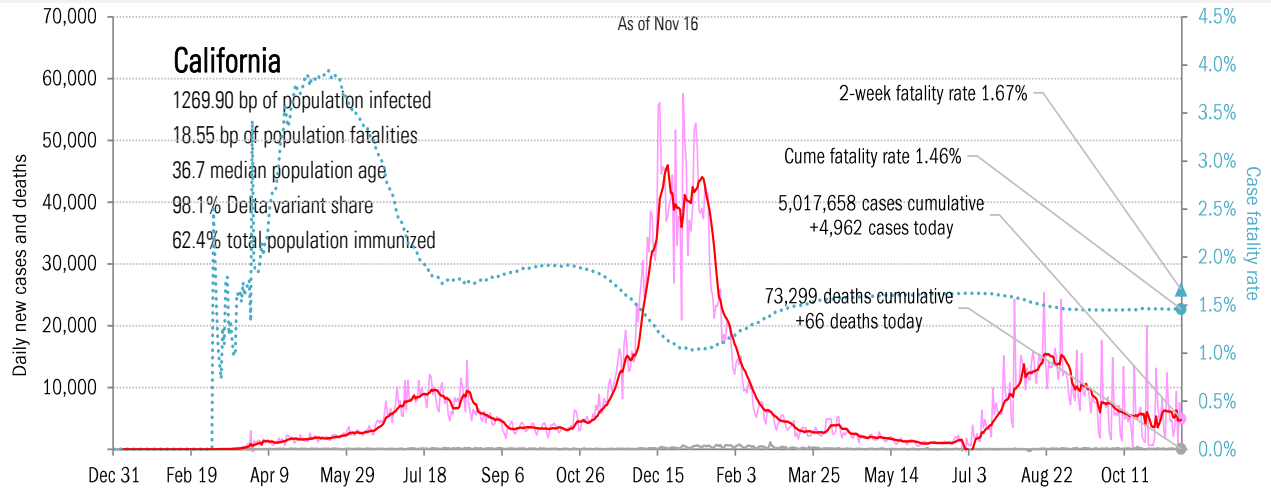
Cases: 7-day average and daily Deaths: Daily



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

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

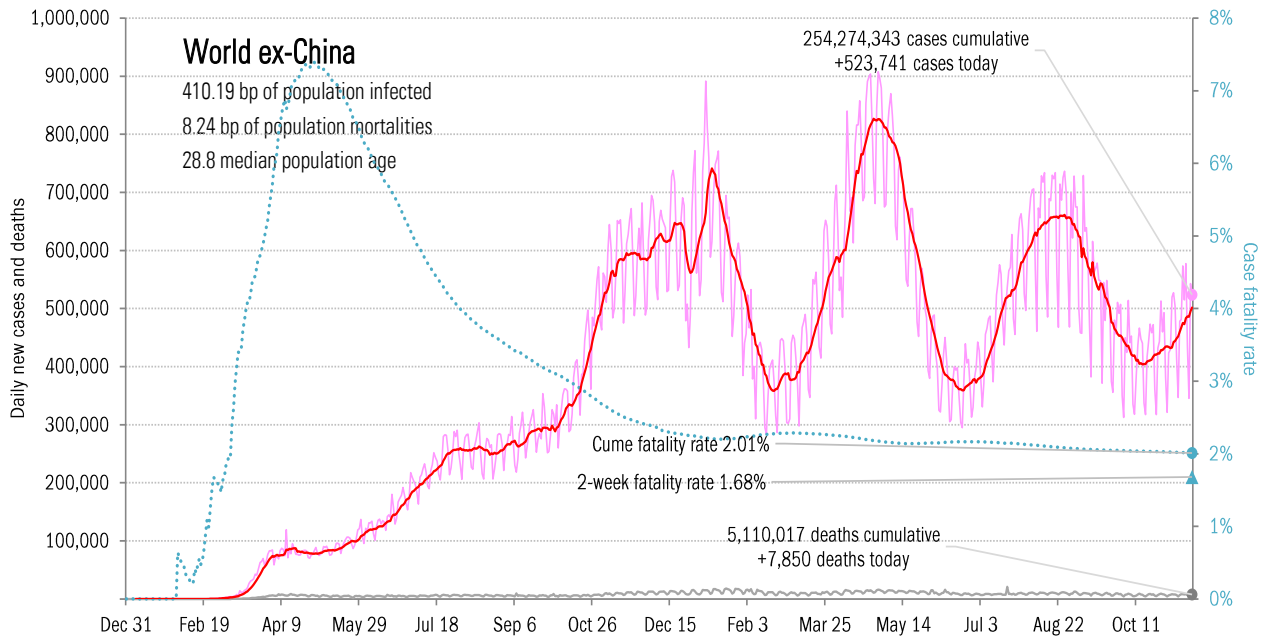
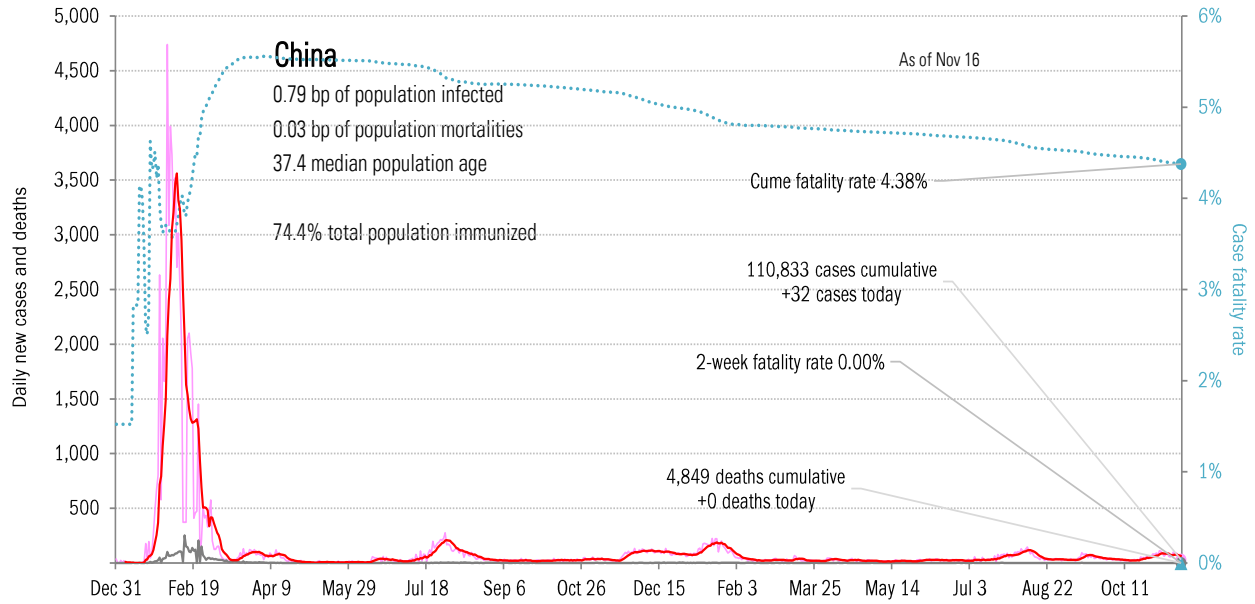
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

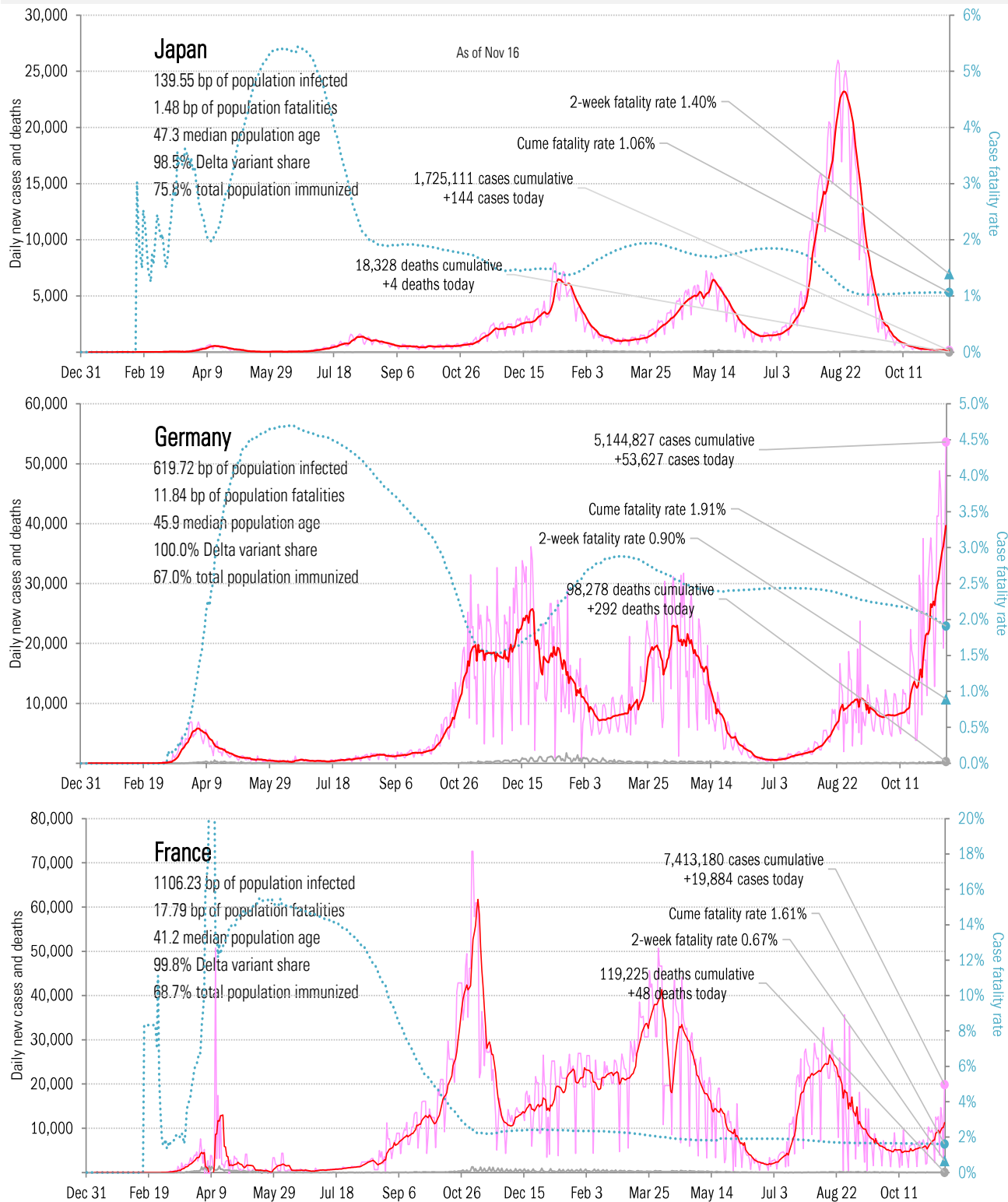
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

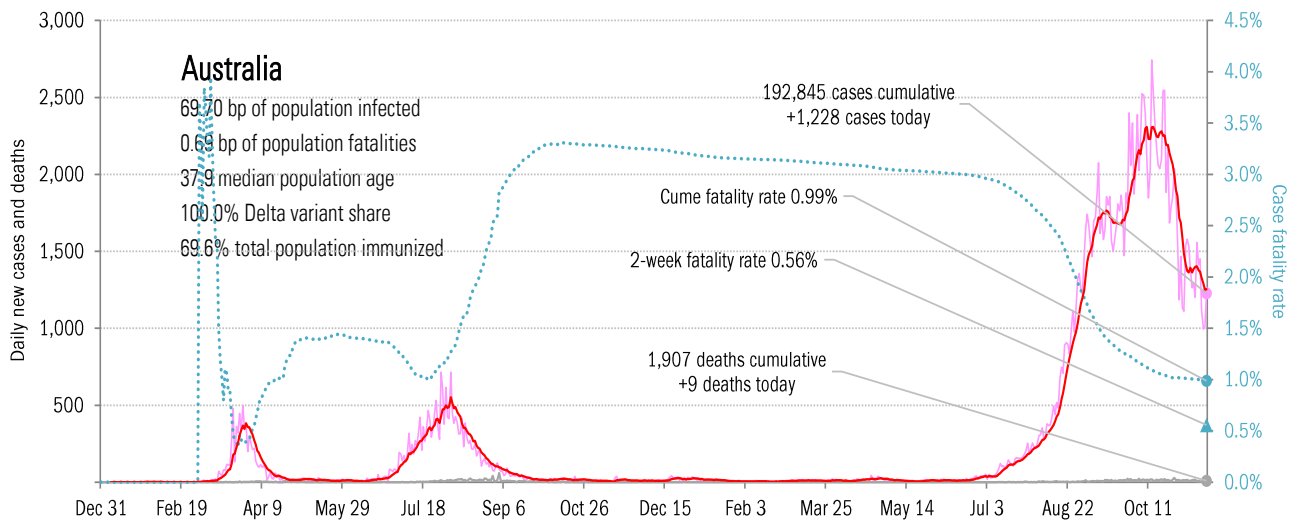
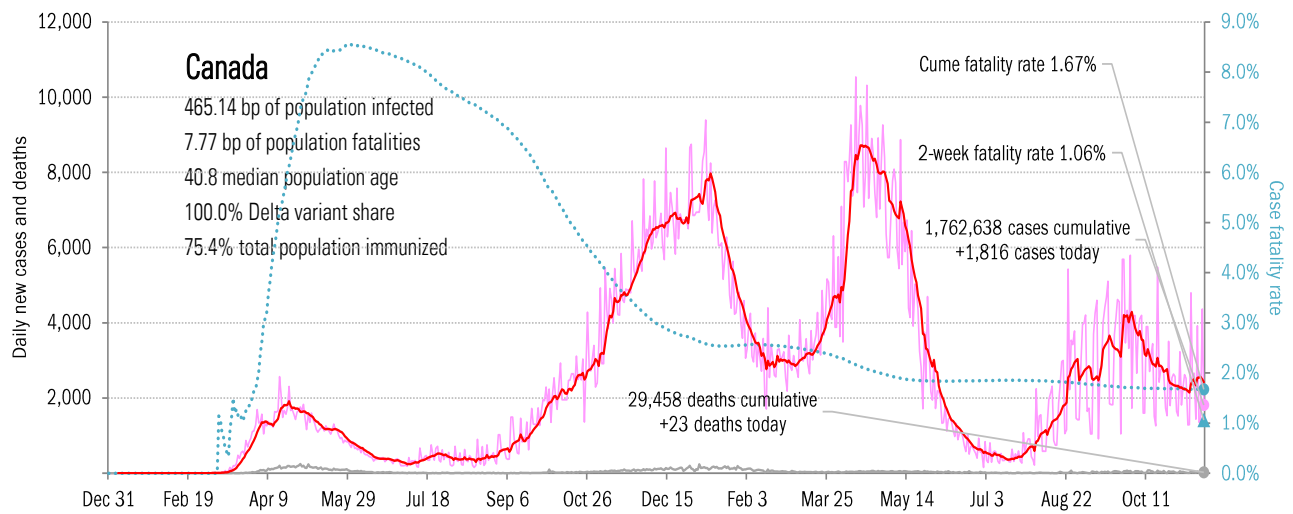
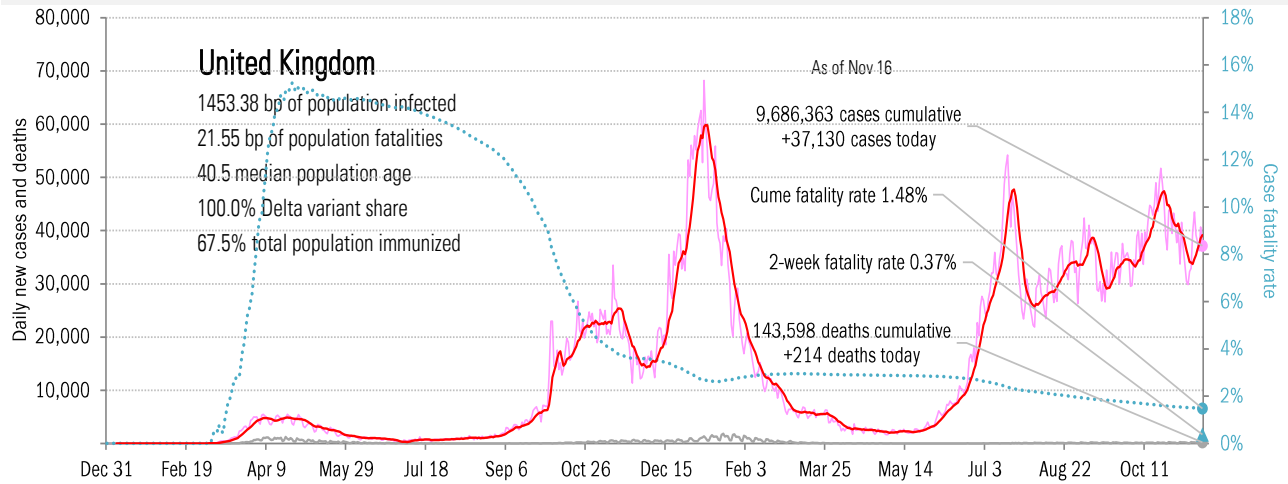
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

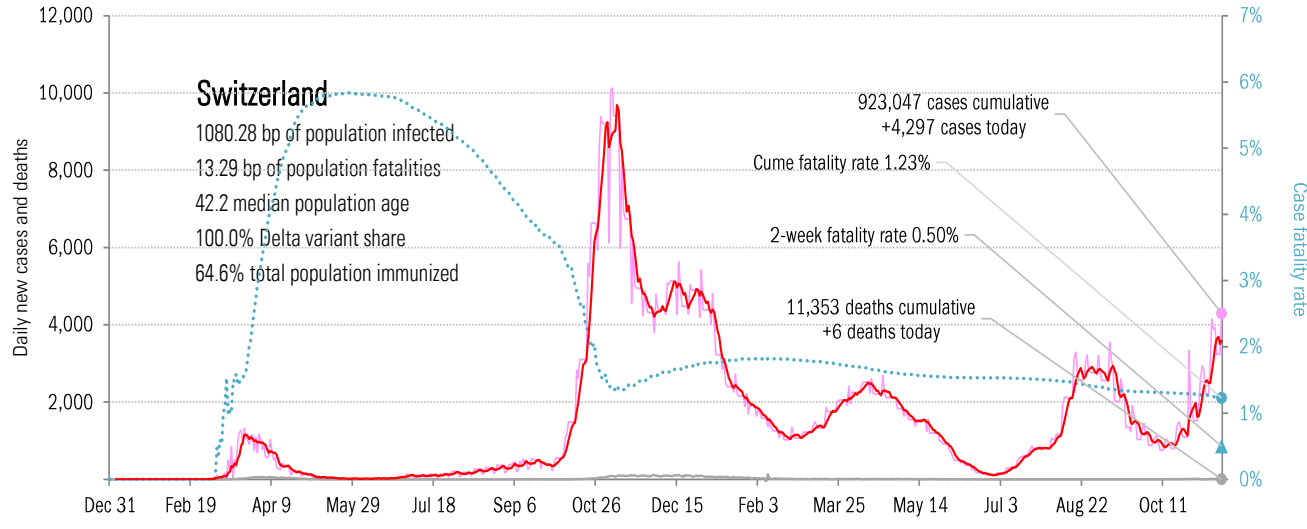
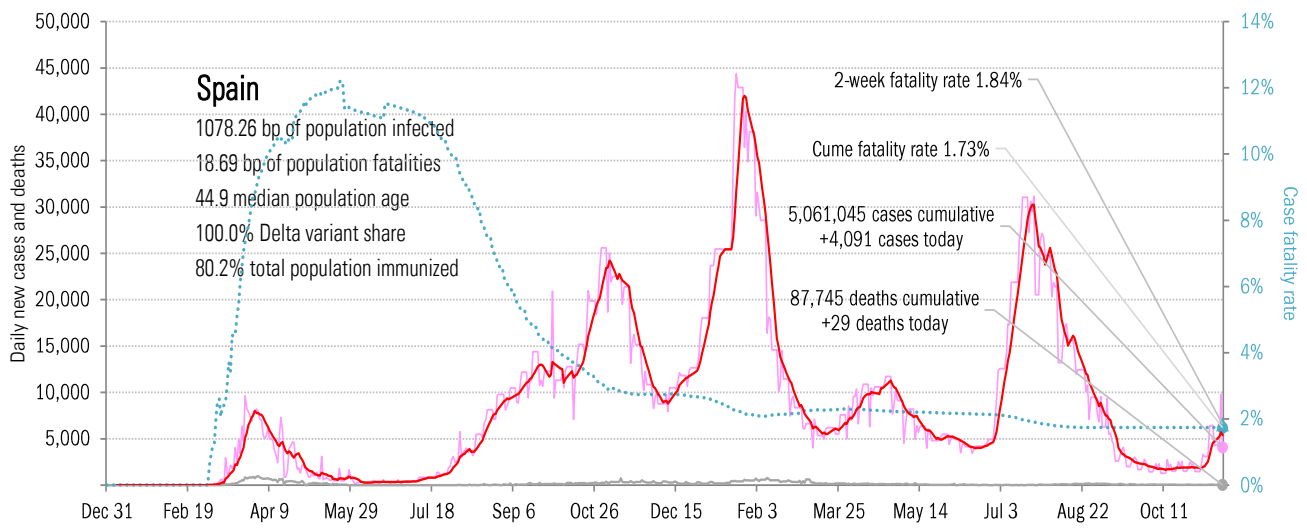
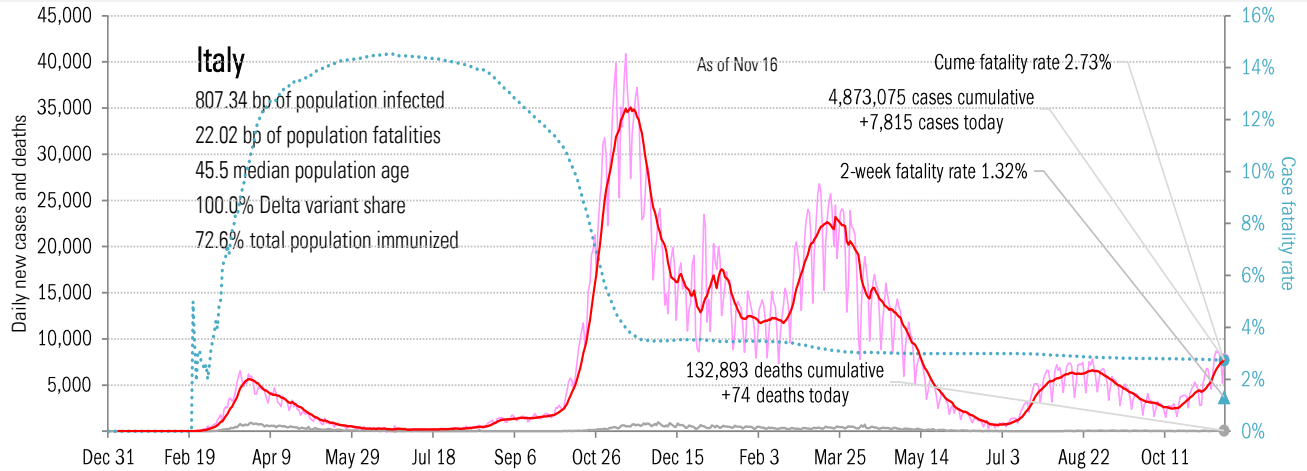
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

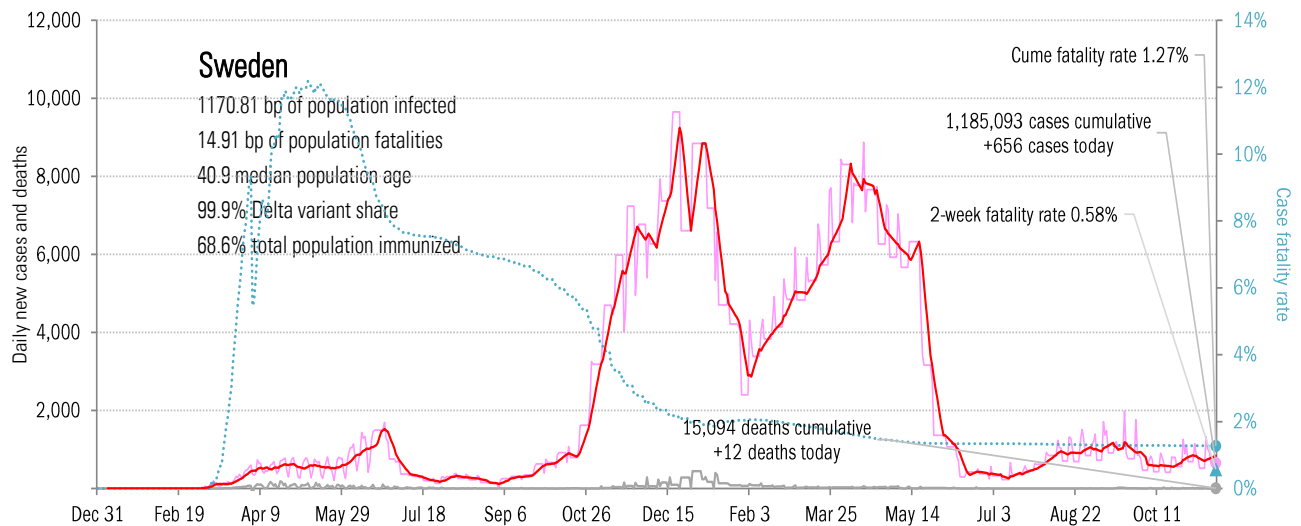
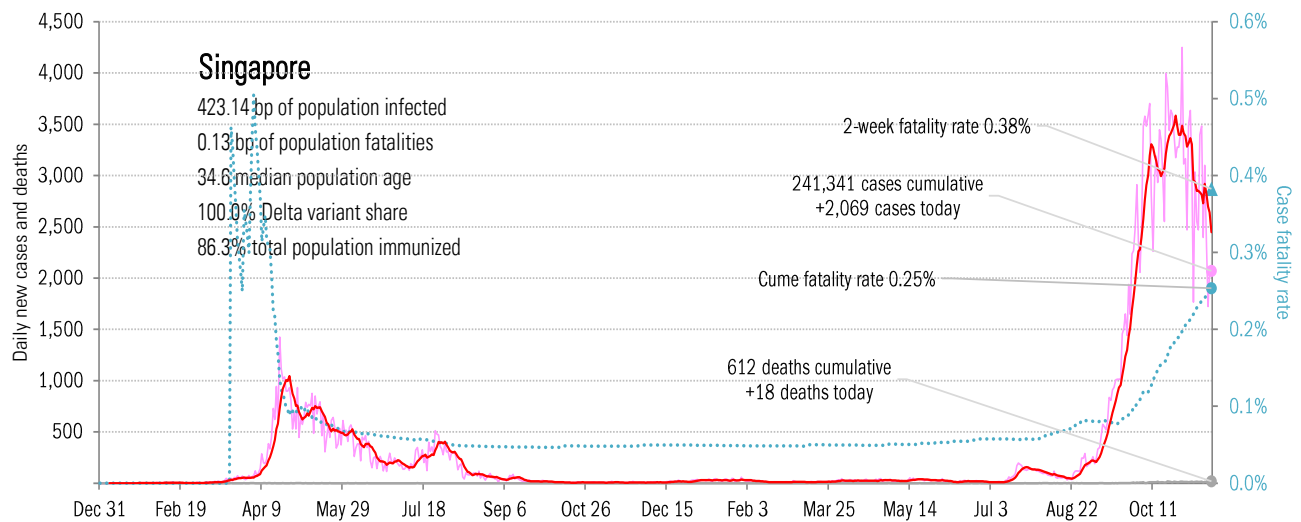
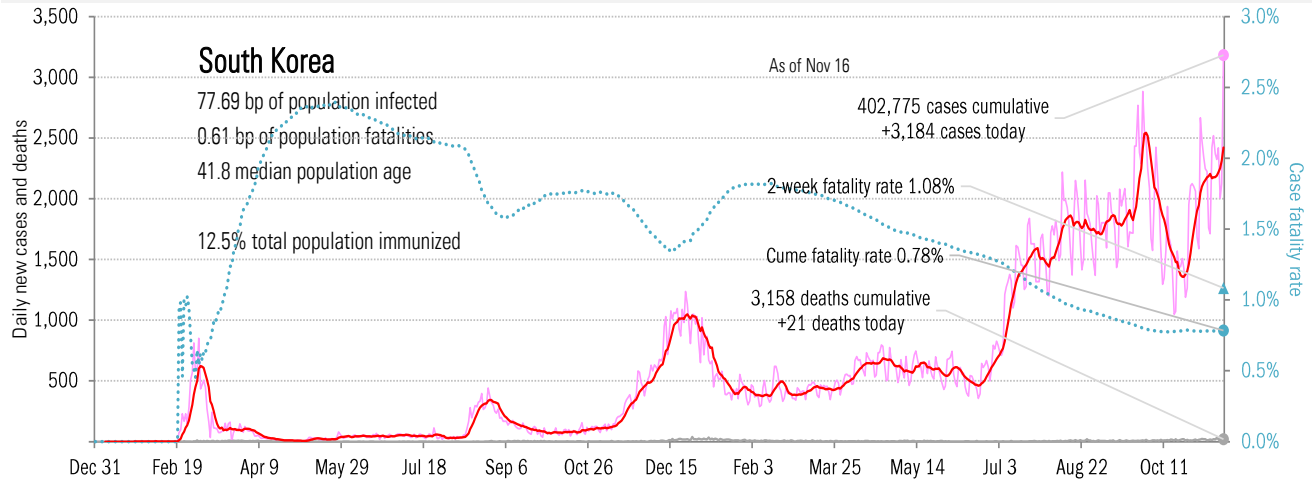
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

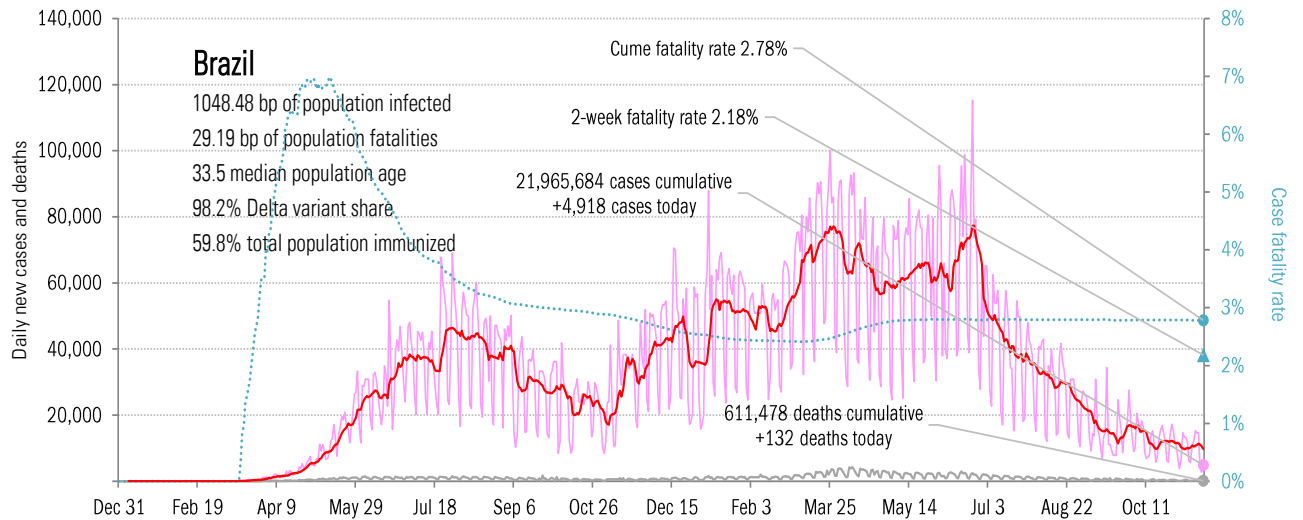
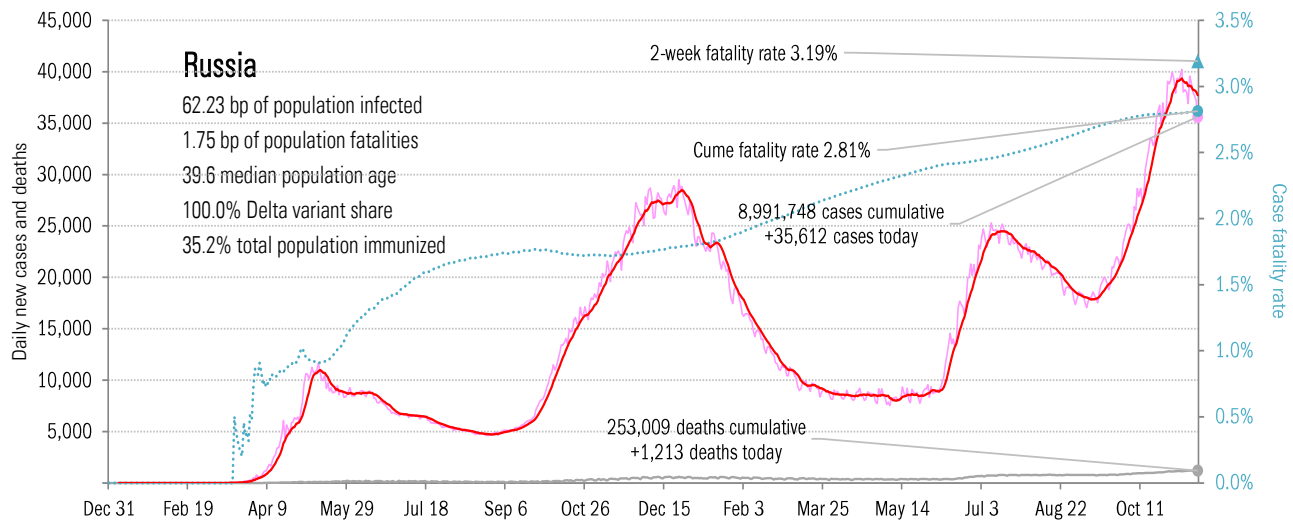
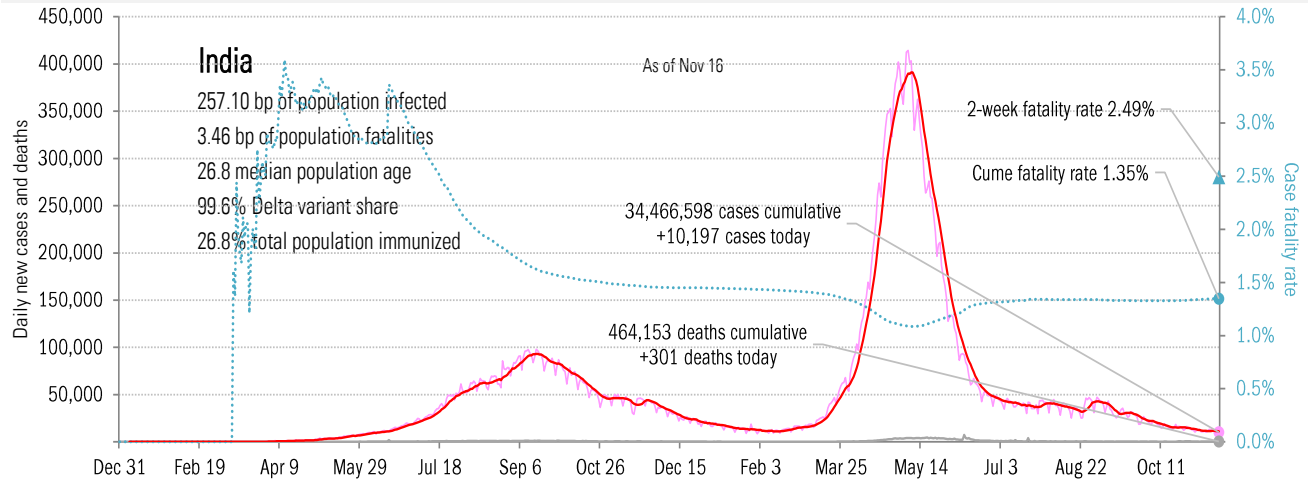
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

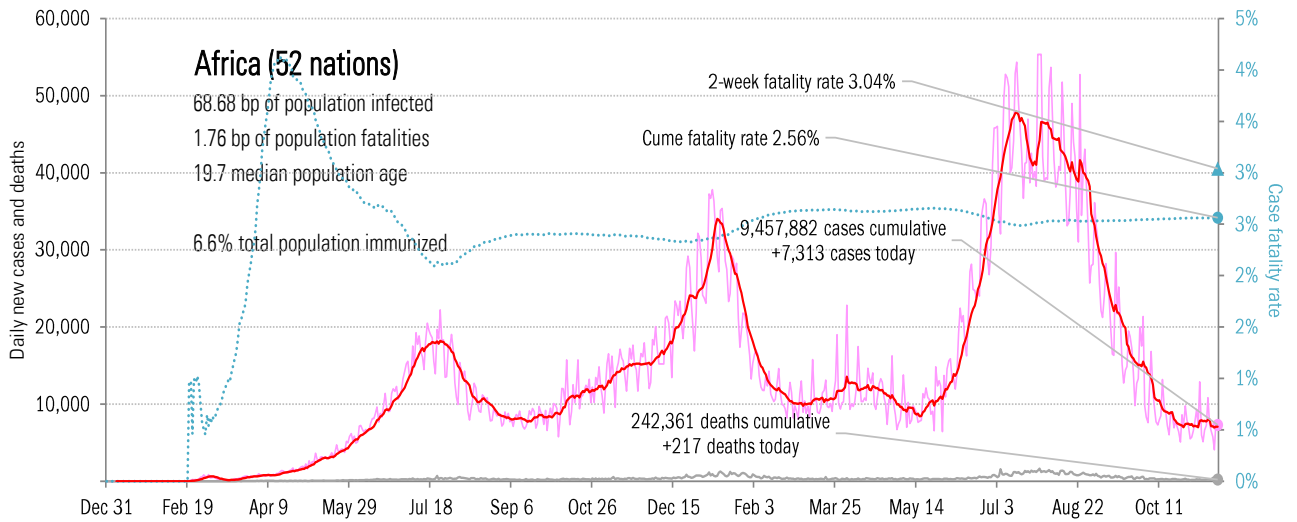
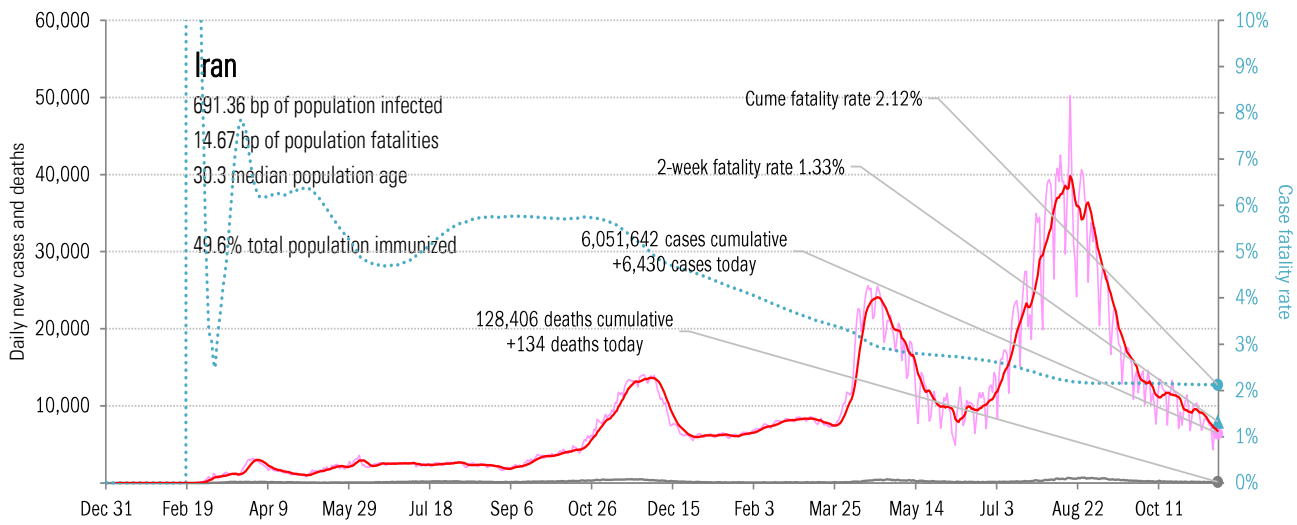
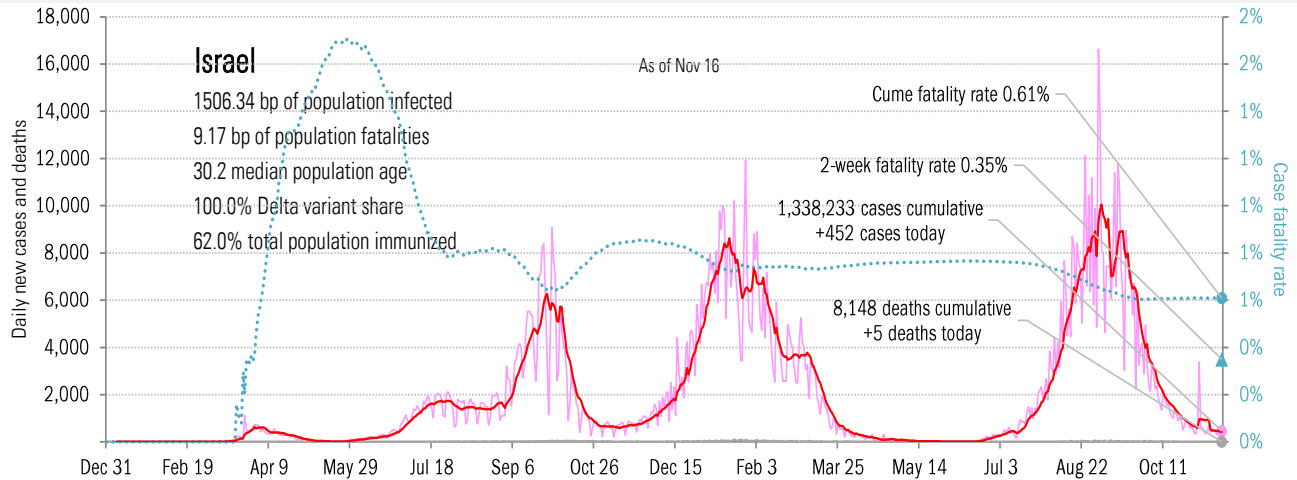
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

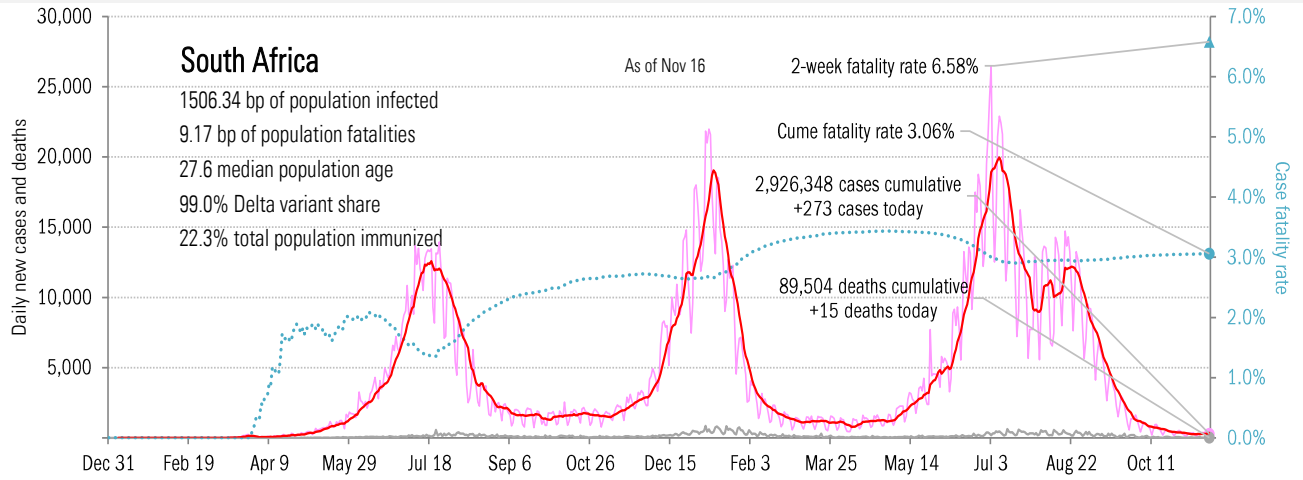
Cases: **7-day average** and **daily** Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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