

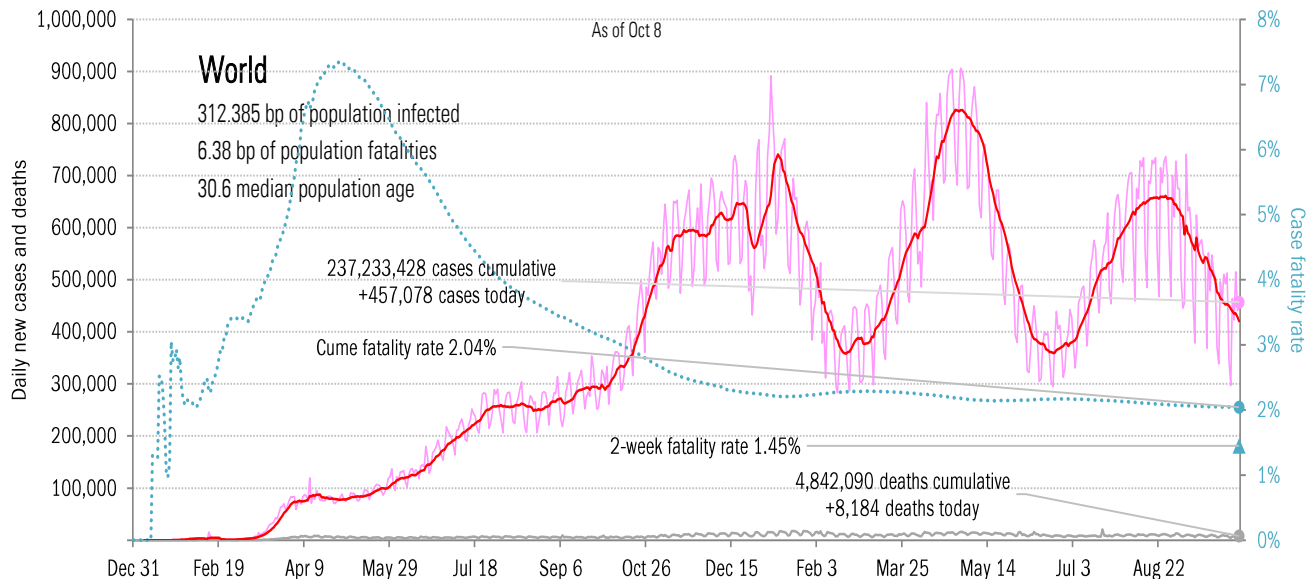
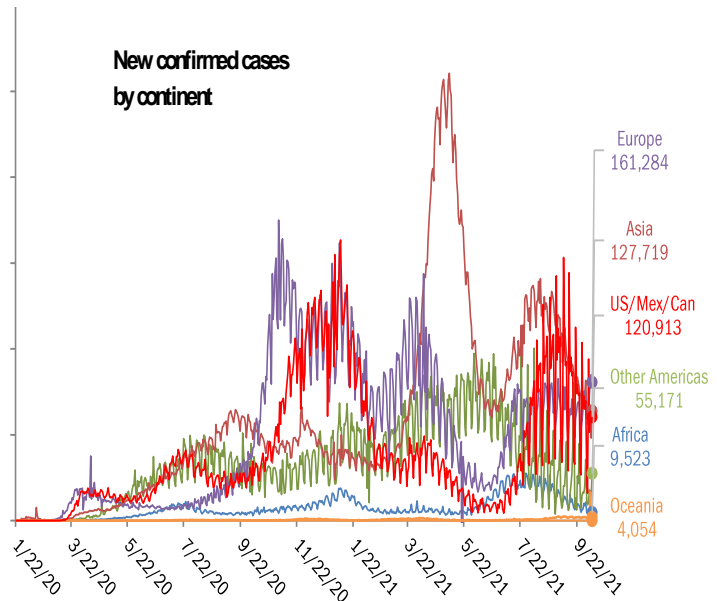
## Data Insights: Covid-2019 Monitor

Saturday, October 9, 2021

### The global scorecard

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

The worst ten countries			
New cases		New Deaths	
United States	+109,556	United States	+2,455
United Kingdom	+35,120	Russia	+921
Turkey	+30,201	Brazil	+615
Russia	+26,561	Mexico	+489
Philippines	+20,577	Philippines	+404
India	+19,740	Romania	+385
Brazil	+18,172	Ukraine	+256
Ukraine	+17,047	India	+248
Romania	+13,854	Turkey	+188
Thailand	+11,140	Iran	+185
<b>+301,968</b>		<b>+6,146</b>	
World +457,078		World +8,184	
Top ten 66%		Top ten 75%	



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

### For more information contact us:

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 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

Cases: 7-day average and daily Deaths: Daily

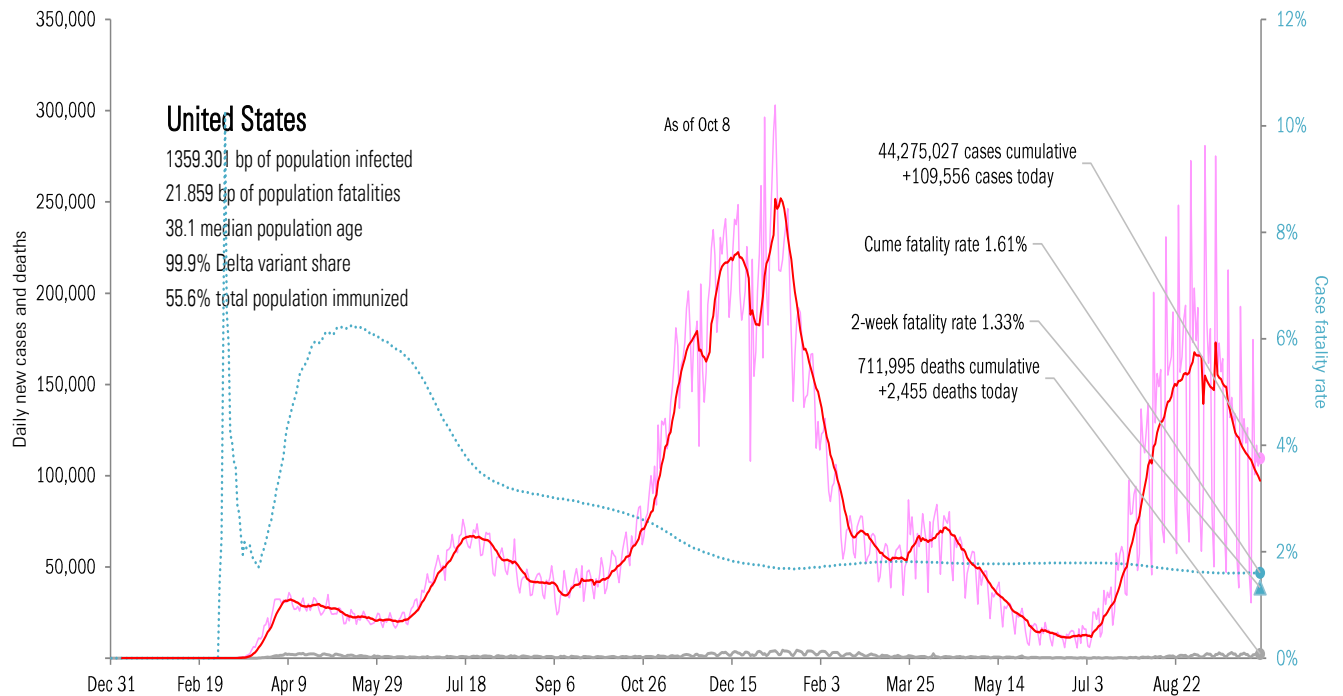
## The ten worst US states

New cases			New Deaths			New in hospital			Cumulative cases			Cumulative deaths			Cumulative in hospital			Hospital use		ICU use	
MI	+10,122		KS	+374		MI	+35		CA	4,771,626		CA	69,966		TX	364,112		MA	87%	NM	93%
CA	+7,072		CH	+329		GA	+32		TX	4,128,119		TX	66,983		FL	311,635		RI	86%	TX	91%
CH	+6,651		FL	+195		MN	+22		FL	3,630,265		FL	55,969		CA	300,434		MD	86%	ID	91%
NY	+5,814		CA	+146		WA	+20		NY	2,466,780		NY	55,645		NY	157,925		PA	86%	AL	91%
PA	+5,583		GA	+131		WI	+20		IL	1,650,108		PA	29,907		GA	154,544		GA	85%	GA	89%
NC	+4,078		MI	+93		OK	+19		GA	1,602,667		IL	27,657		CH	115,191		NY	82%	MT	88%
TX	+3,728		PA	+93		CH	+18		PA	1,469,847		NJ	27,570		PA	109,121		MO	82%	KY	88%
MN	+3,645		NC	+85		WY	+17		CH	1,458,747		GA	27,142		KY	108,100		WV	82%	OK	87%
FL	+3,598		AL	+81		MT	+12		NC	1,425,062		CH	22,819		IL	101,330		NH	82%	WV	86%
WI	+3,564		SC	+73		PA	+12		TN	1,249,333		MI	22,702		MI	85,307		MN	82%	AK	86%
<b>+53,855</b>			<b>+1,600</b>			<b>+207</b>			<b>23,852,554</b>			<b>406,360</b>			<b>1,807,699</b>						
All states	+109,556					-214		All states	44,275,027		711,995		3,216,361		All states	70%		67%			
Top ten	49%					-97%		Top ten	54%		57%		56%		Median	77%		80%			

Some states not reporting

## Five most improved US states

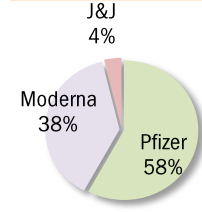
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-4,253	TX	-202	NJ	-63	VT	+30 bp
FL	-2,964	GA	-60	CT	-34	AL	+20 bp
GA	-2,479	CR	-36	CR	-23	PA	+20 bp
OK	-1,066	KY	-19	ND	-20	FR	+20 bp
IL	-627	AR	-13	NE	-19	WI	+20 bp



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	One dose	% Pop	Immune	% pop	New immune today			
	411,906,312				+1.139 million	US	55.6%	64.4%
Total population	221,826,716	66%	191,582,718	57%	+0.301 million	UK	66.1%	72.0%
Age 12 to 17	13,847,251	58%	11,336,440	48%	+0.030 million	France	66.5%	74.8%
Age 18 to 64	153,364,631	75%	131,914,070	65%	+0.226 million	Spain	78.7%	80.8%
Age 65 and over	53,529,412	98%	47,443,796	87%	+0.043 million	Germany	64.6%	67.9%
						Italy	68.9%	75.7%
						Australia	49.3%	68.2%
						Israel	64.6%	70.3%
						Canada	71.9%	77.8%
						Japan	63.4%	73.1%
						Africa	4.6%	7.1%
						India	18.7%	48.5%
						Brazil	45.6%	71.9%
						China	72.6%	76.2%



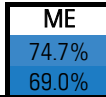
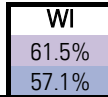
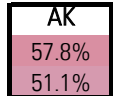
State
At least partial immunity as % population
Full immunity as % population



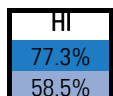
Every American >18 immune in **69 days** by Dec 16, 2021  
 69.4% of population >18 immunized  
 15.8% previously tested positive  
**85.2%** vs 60% adult herd immunity

As of Oct 8

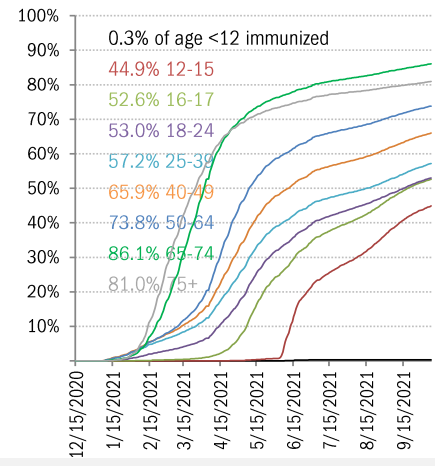
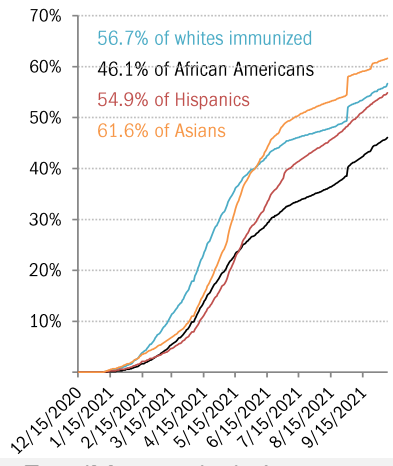
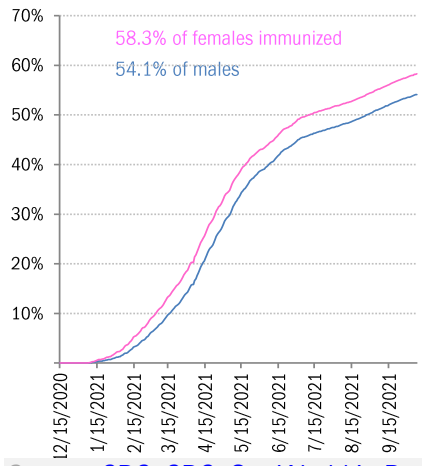
Global data differs from sources, timing



WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
67.9%	47.7%	55.3%	51.6%	64.0%	69.2%	57.0%	72.1%	78.3%	71.4%	
61.8%	42.3%	49.0%	44.8%	58.6%	54.1%	52.4%	64.5%	70.1%	61.9%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
67.1%	61.5%	49.2%	59.9%	58.5%	52.7%	54.7%	73.9%	73.2%	78.1%	
61.5%	51.4%	42.3%	52.2%	54.4%	48.9%	50.8%	58.6%	65.0%	68.4%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
72.5%	59.7%	66.1%	59.9%	55.4%	61.5%	48.4%	69.1%	71.3%	77.1%	76.1%
59.7%	51.7%	60.0%	55.2%	48.5%	53.2%	40.6%	61.3%	64.7%	69.3%	69.1%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	59.8%	73.1%	60.6%	56.2%	53.3%	61.0%	55.9%	71.8%	67.2%	
	51.7%	63.7%	51.8%	46.2%	46.2%	51.0%	48.1%	60.8%	58.4%	
			OK	LA	MS	AL	GA			
			57.3%	52.3%	50.7%	53.2%	55.4%			
			48.3%	46.1%	44.2%	43.4%	46.2%			
			TX							
			60.1%							
			51.9%							
								FL		PR
								67.6%		80.0%
								58.1%		71.5%



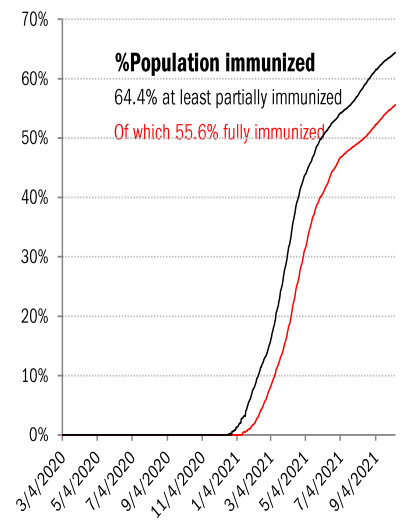
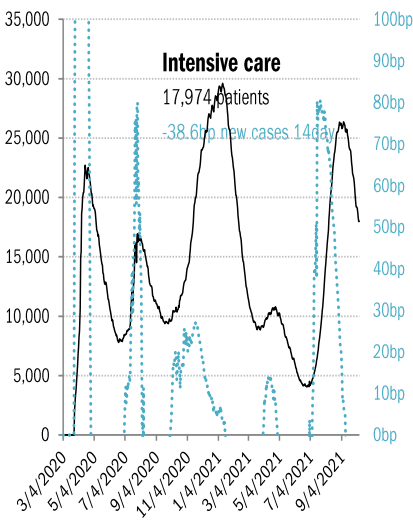
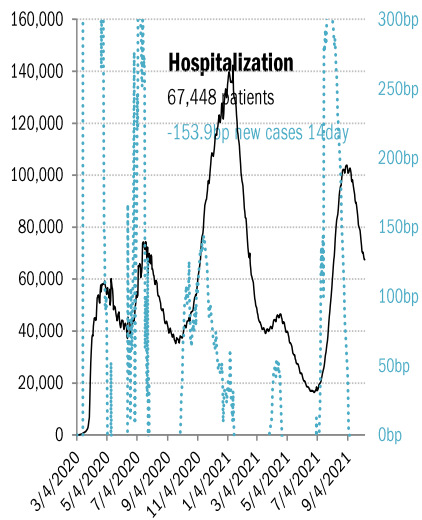
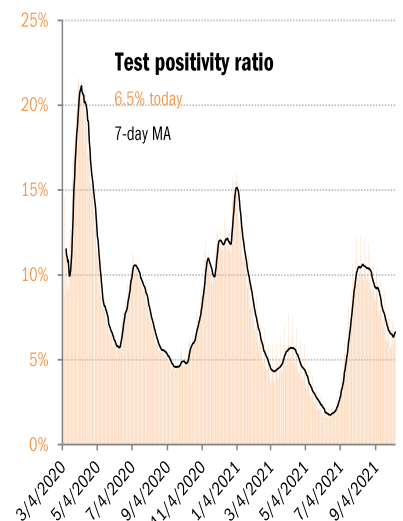
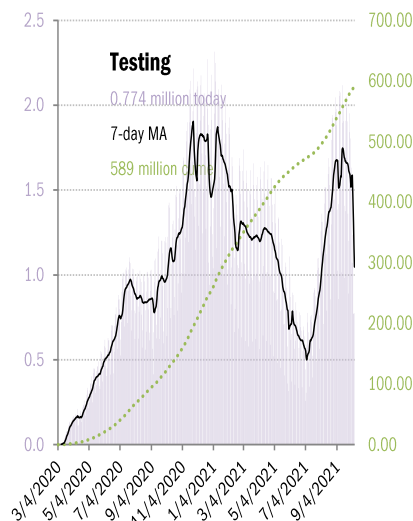
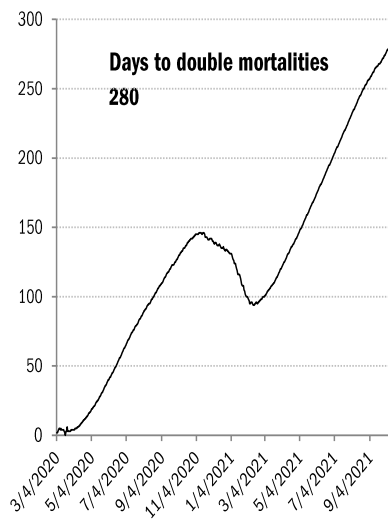
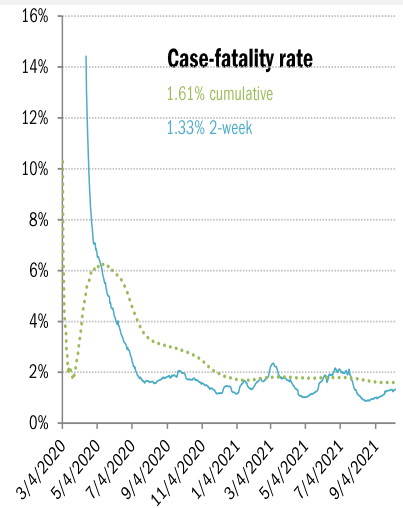
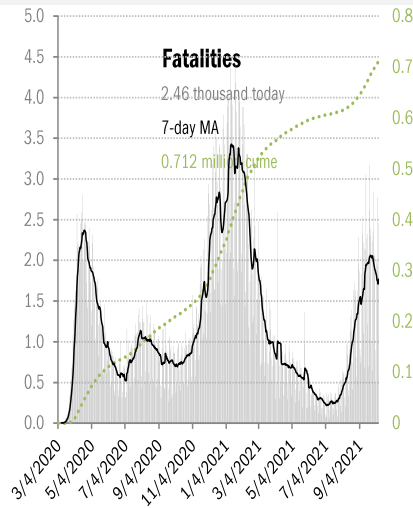
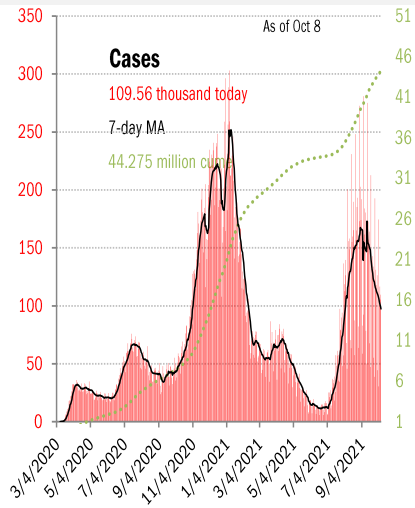
## The demographics of US vaccination



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

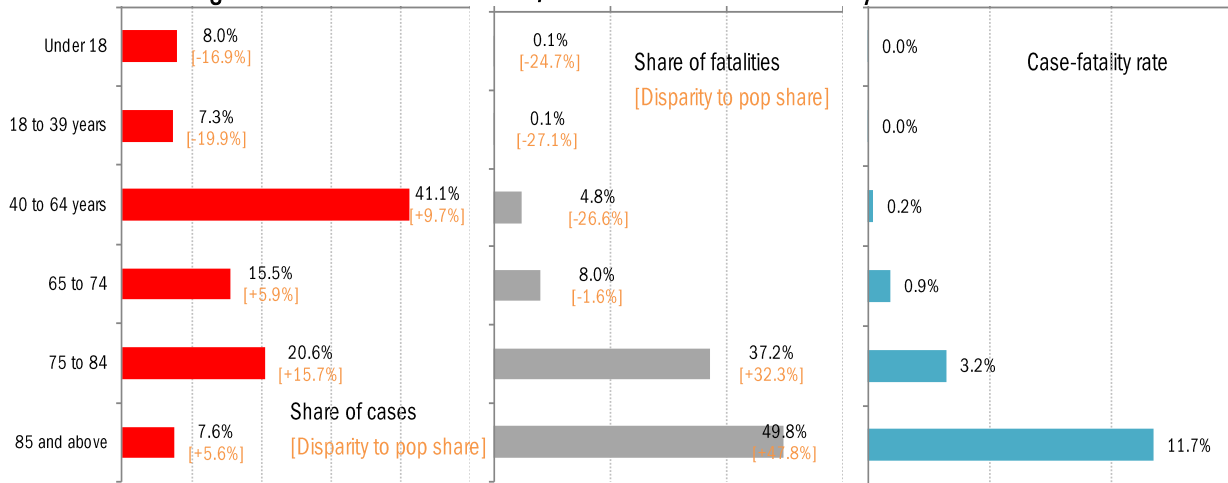
# US deep-dive

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

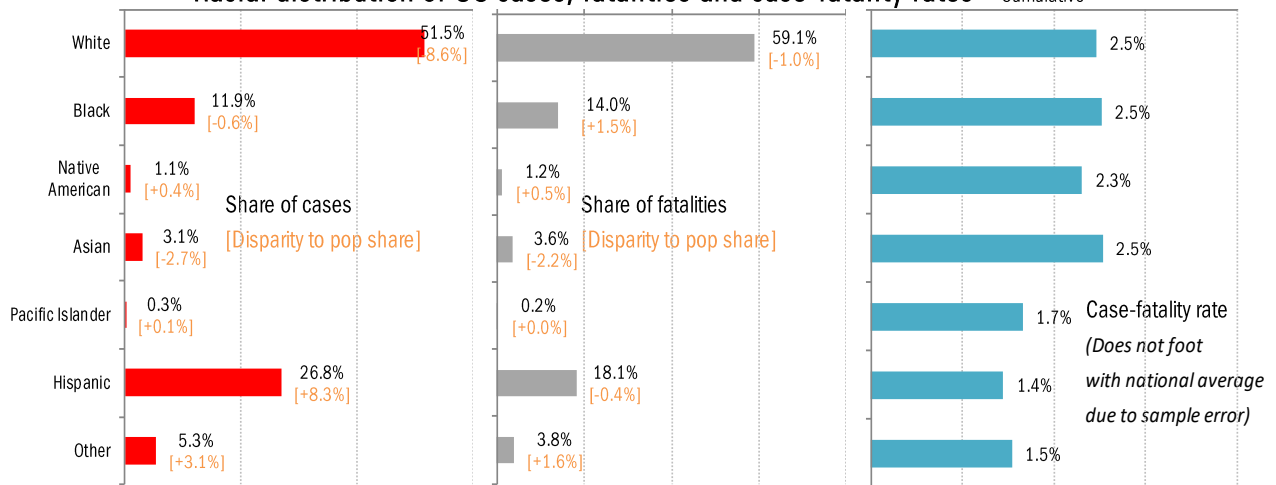


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

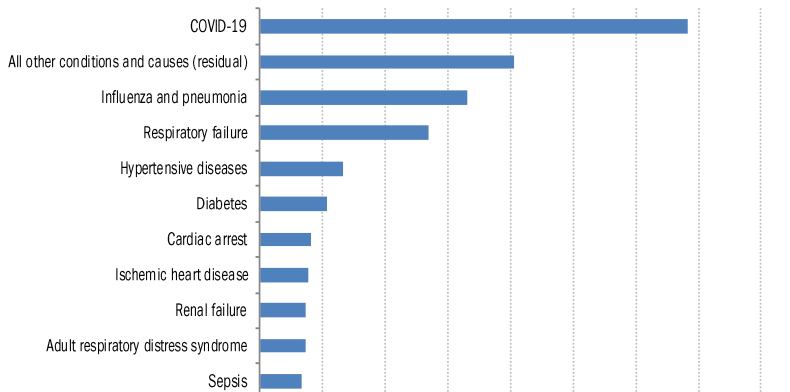


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Sep 26

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.

## Recommended reading

[Florida's Board of Education approves cutbacks to 8 school districts over mask mandates.](#)

Johnny Diaz  
*New York Times*  
October 8, 2021

[As International Travel Returns, Confusion Over Vaccines Reigns](#)

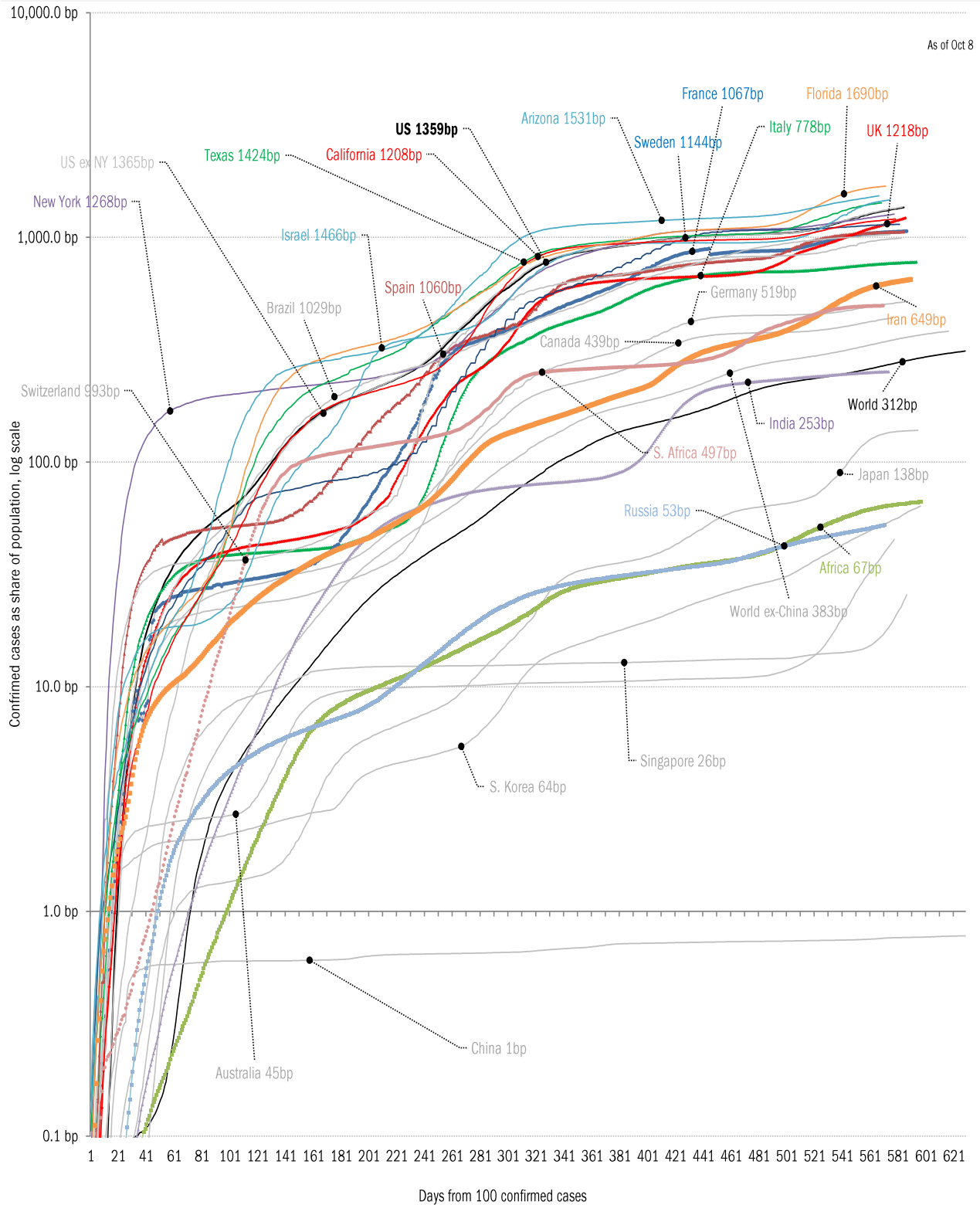
Ceylan Yeginsu  
*New York Times*  
October 8, 2021

## Meme of the day



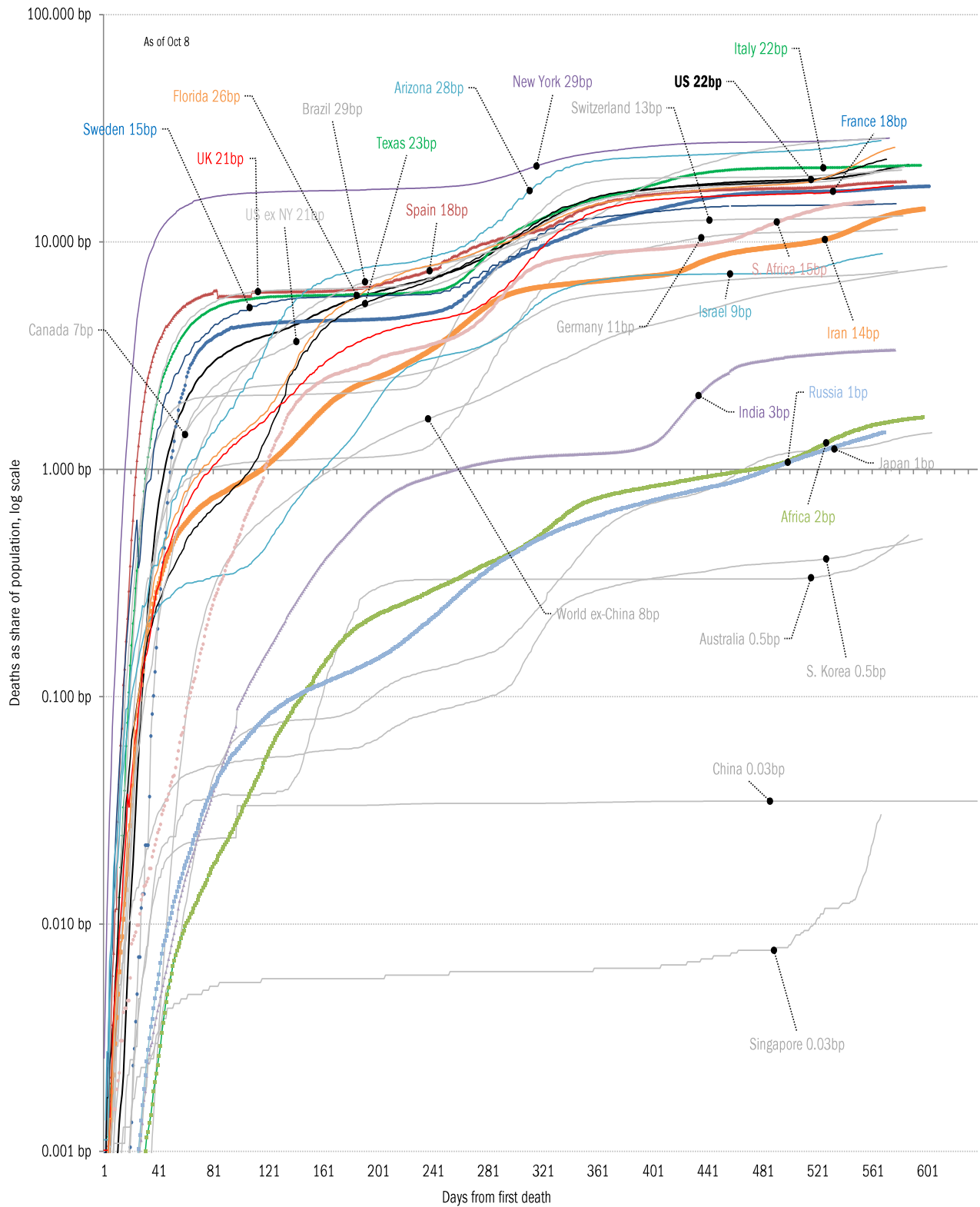
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



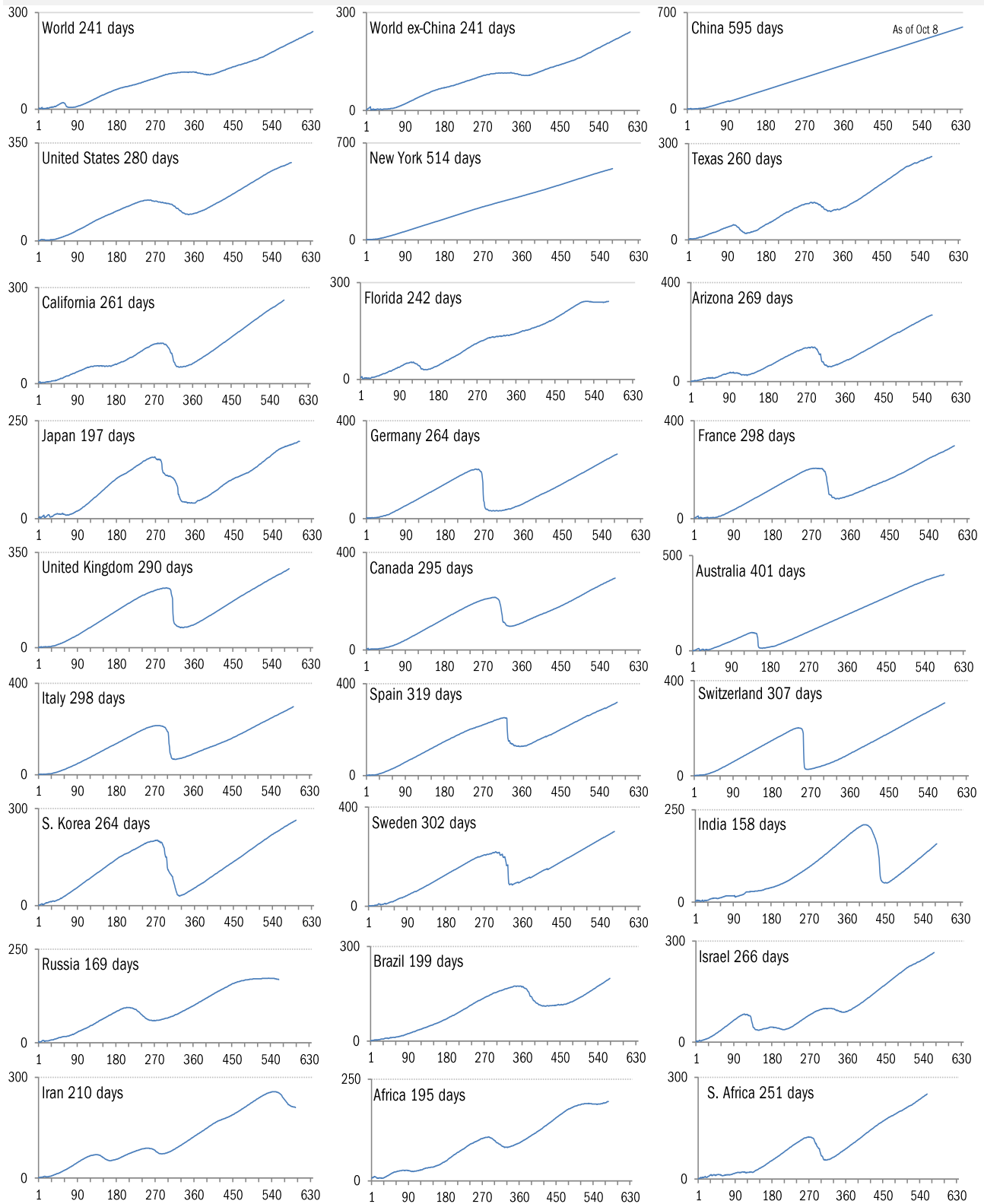
Source: [Johns Hopkins](#), TrendMacro calculations



# "Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

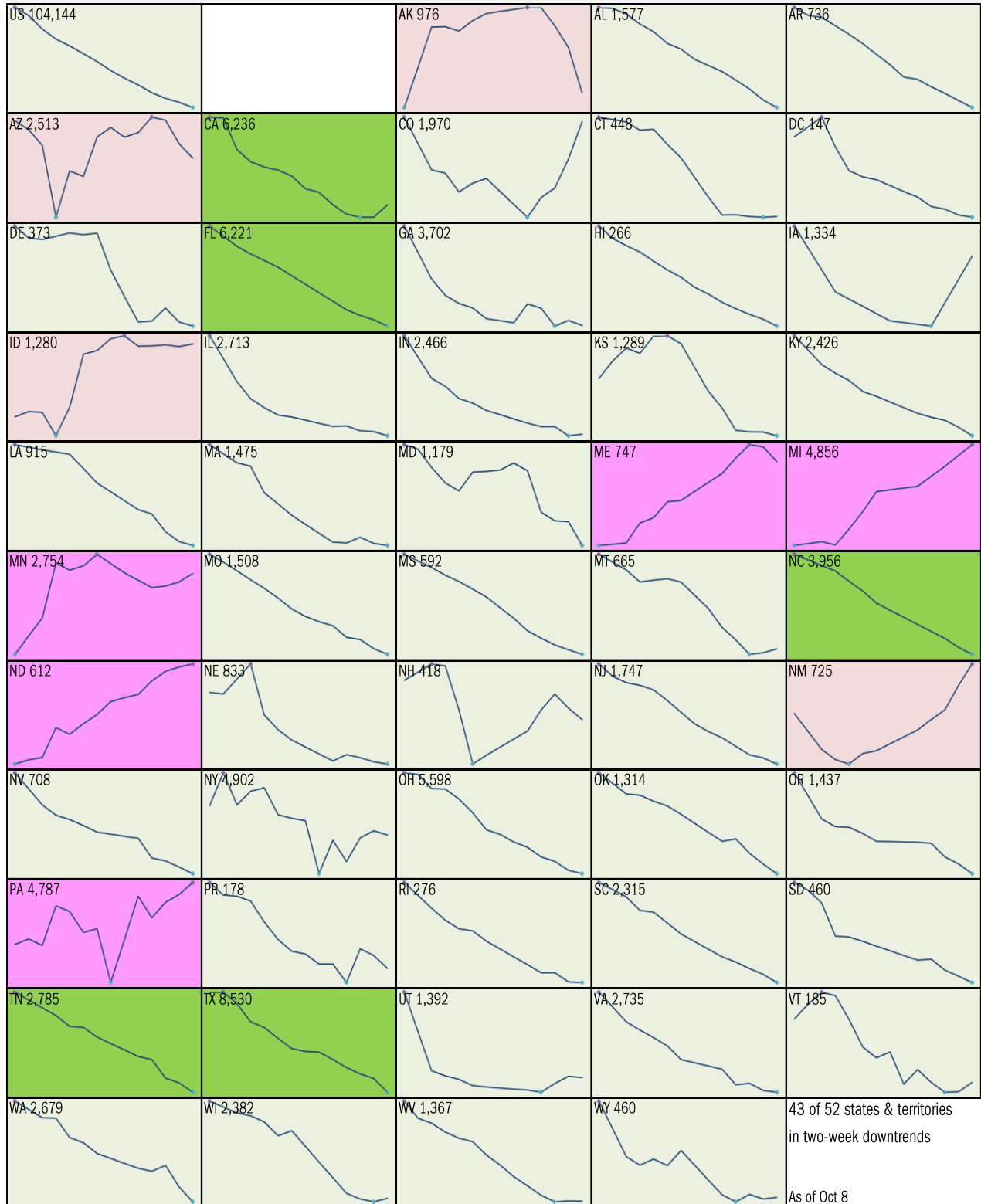
Vertical: days to double deaths Horizontal: days from first death

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

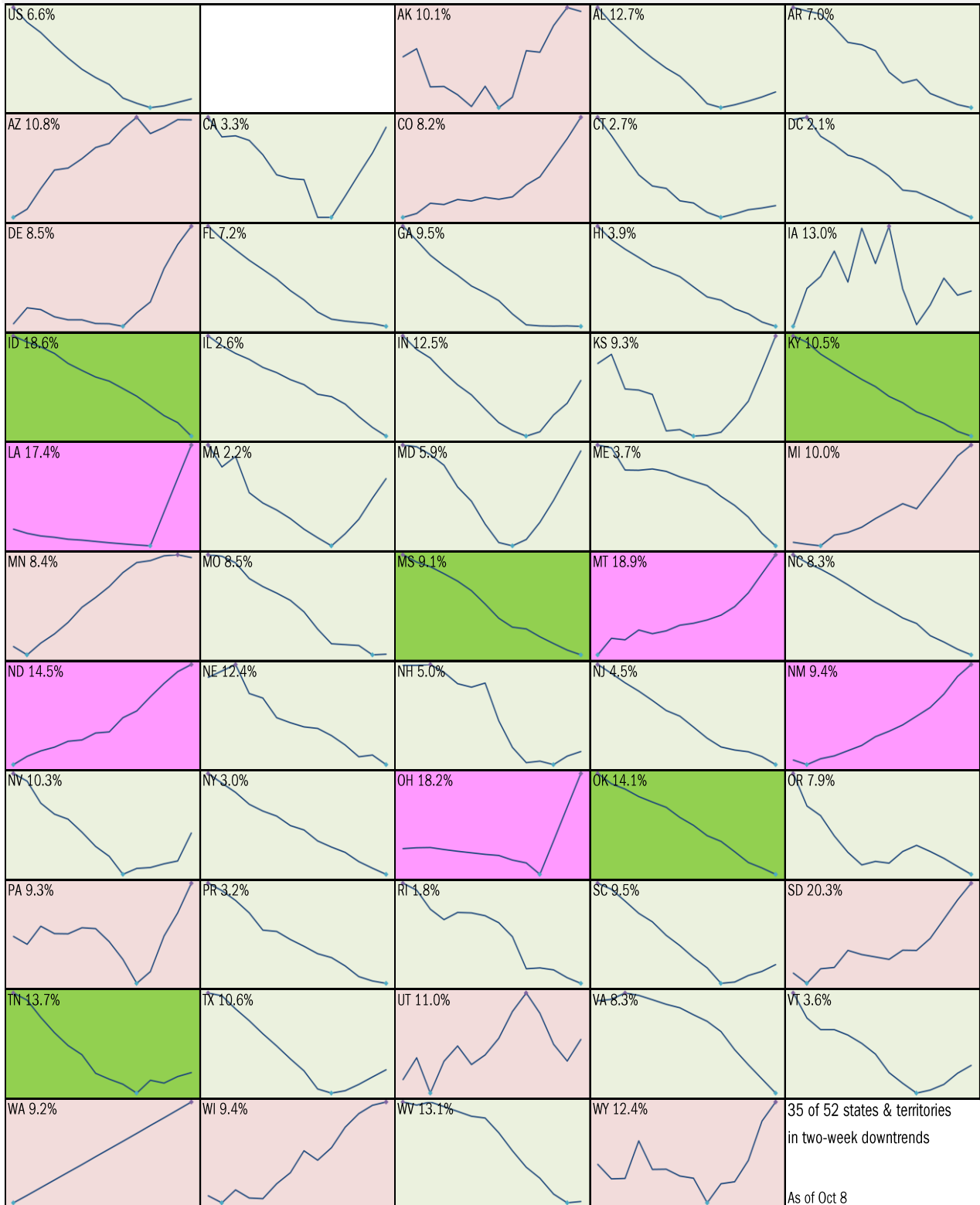


Source: [Johns Hopkins](#), TrendMacro calculations

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

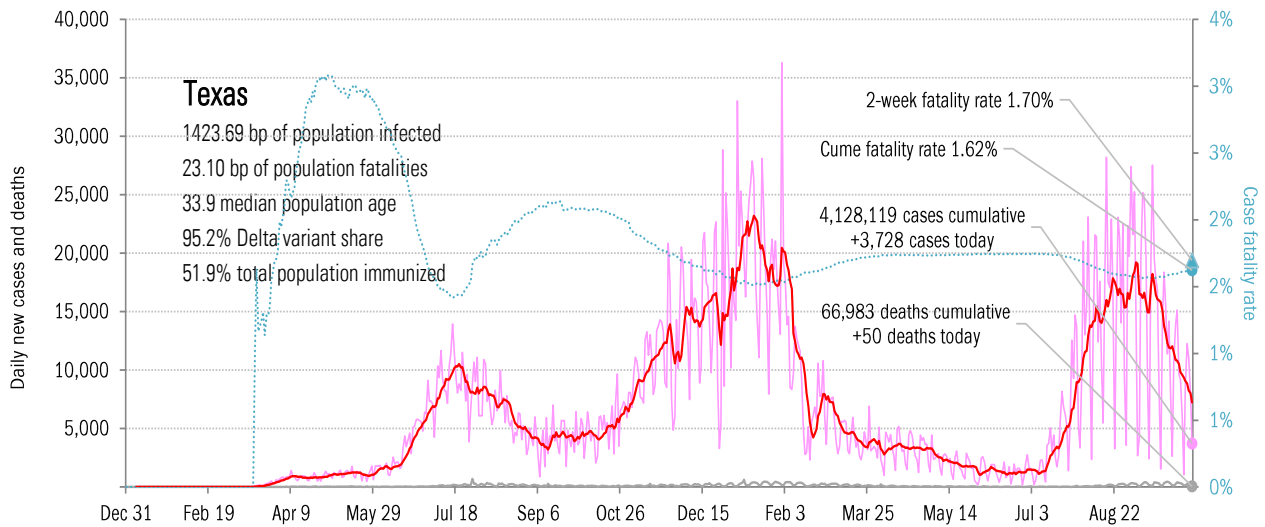
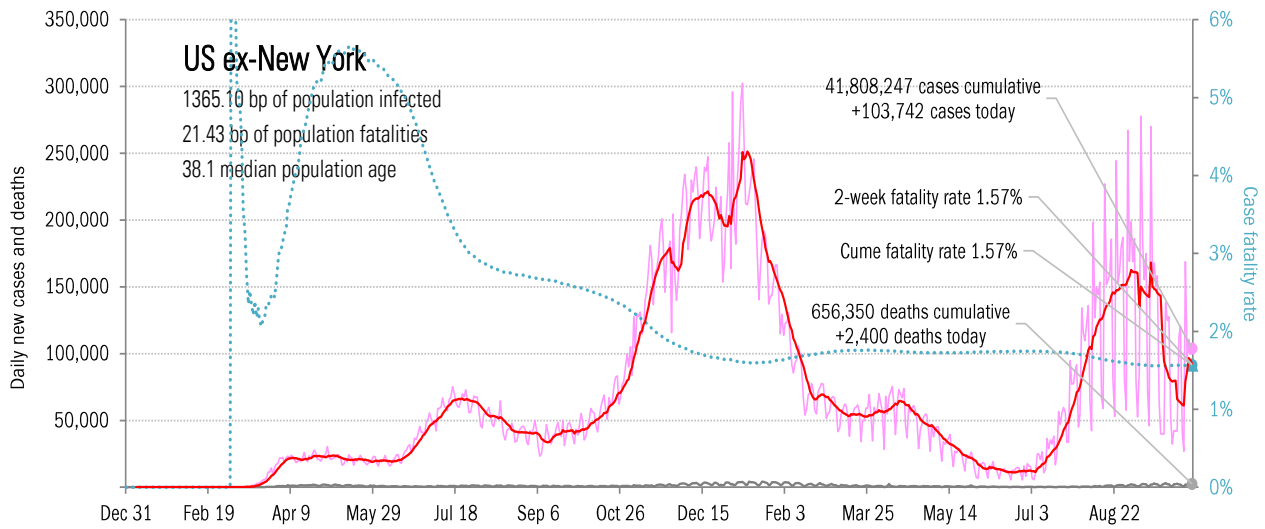
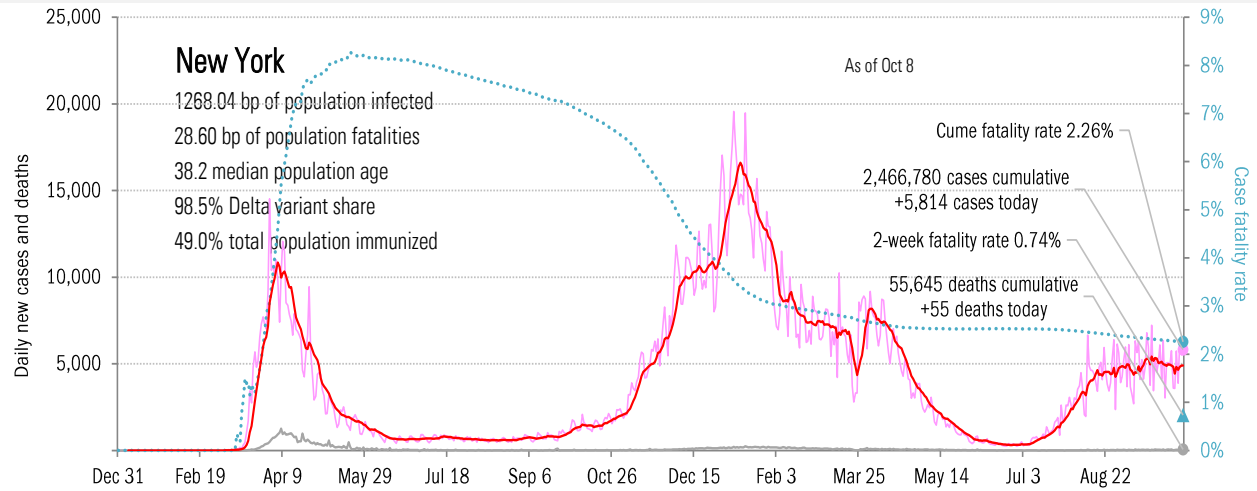
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

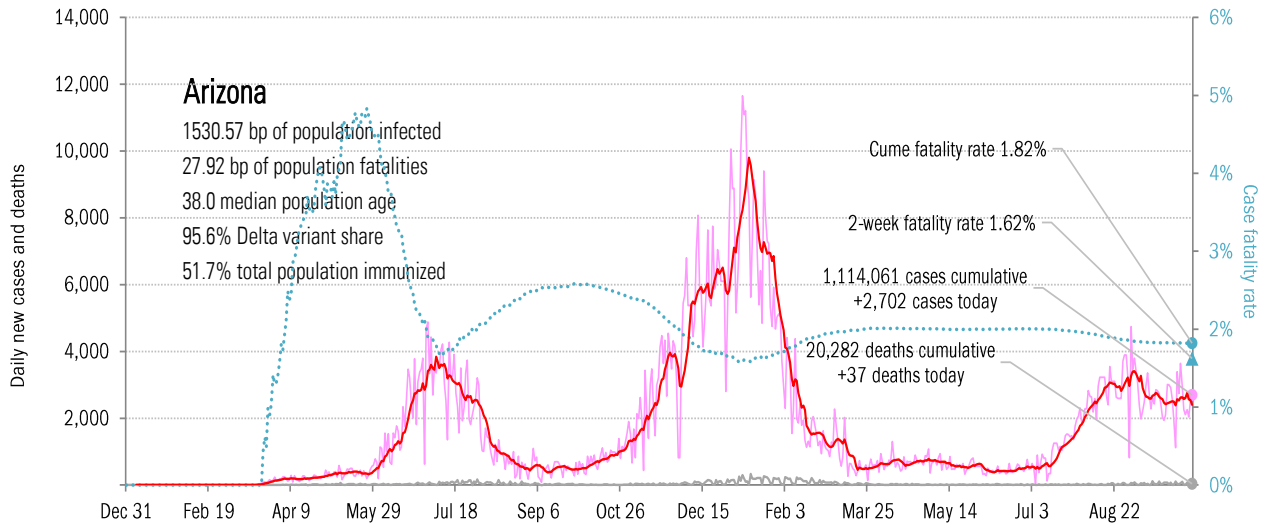
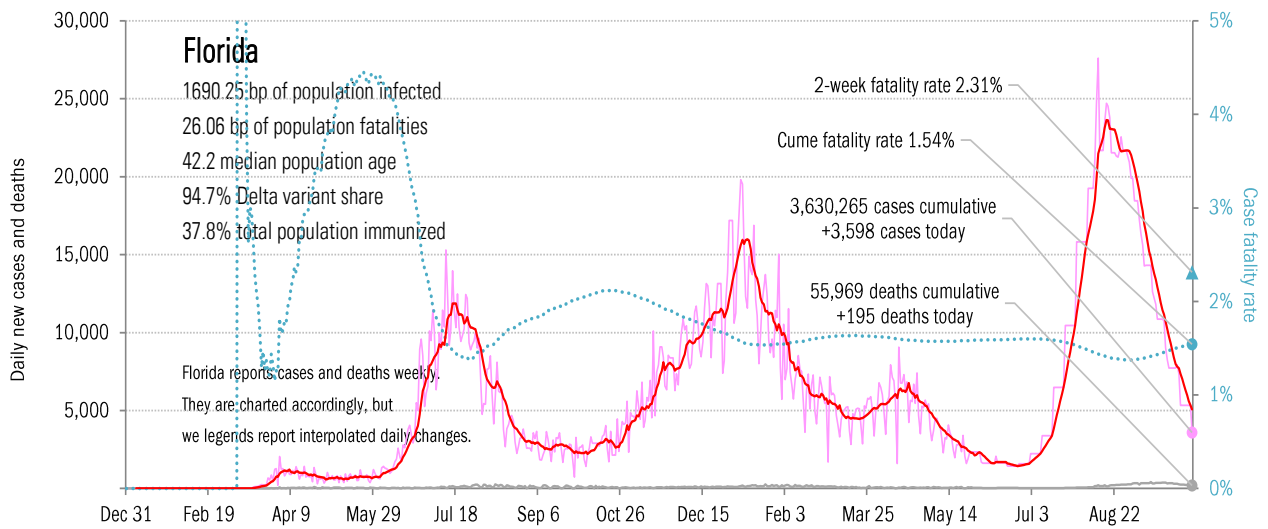
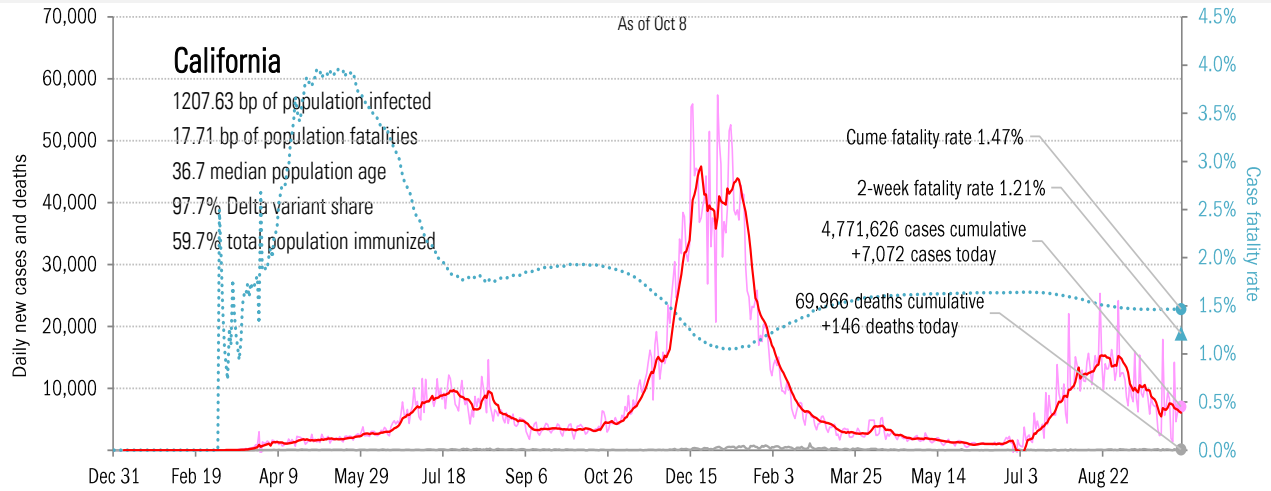
Cases: 7-day average and daily Deaths: Daily



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

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

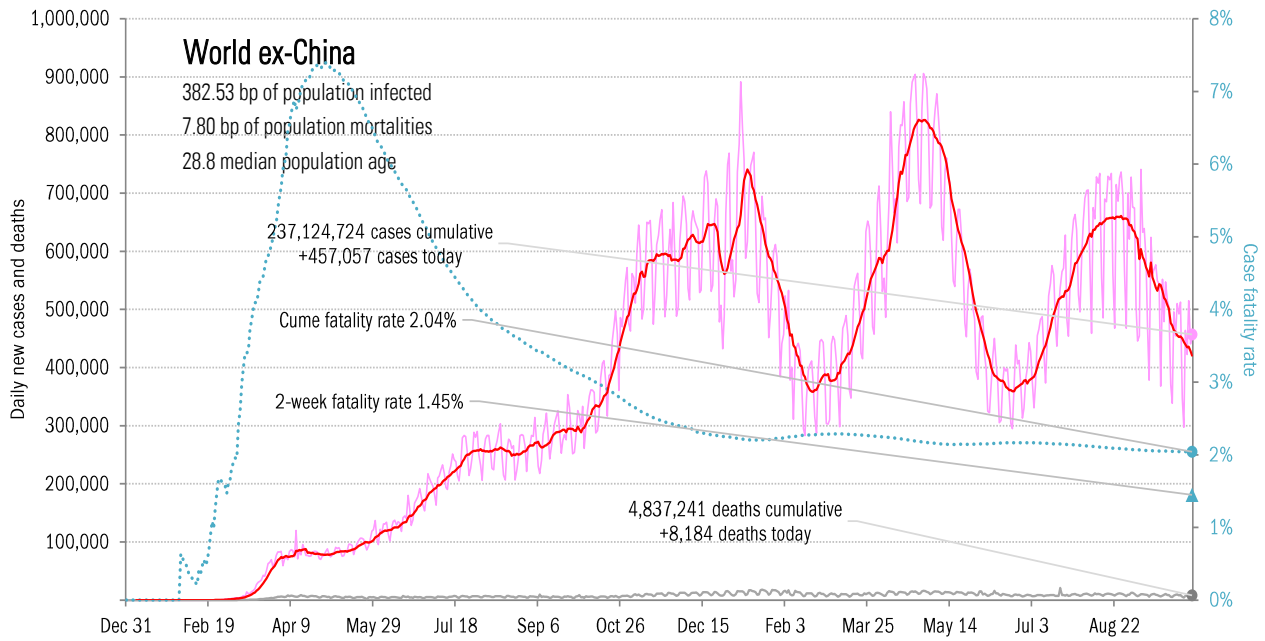
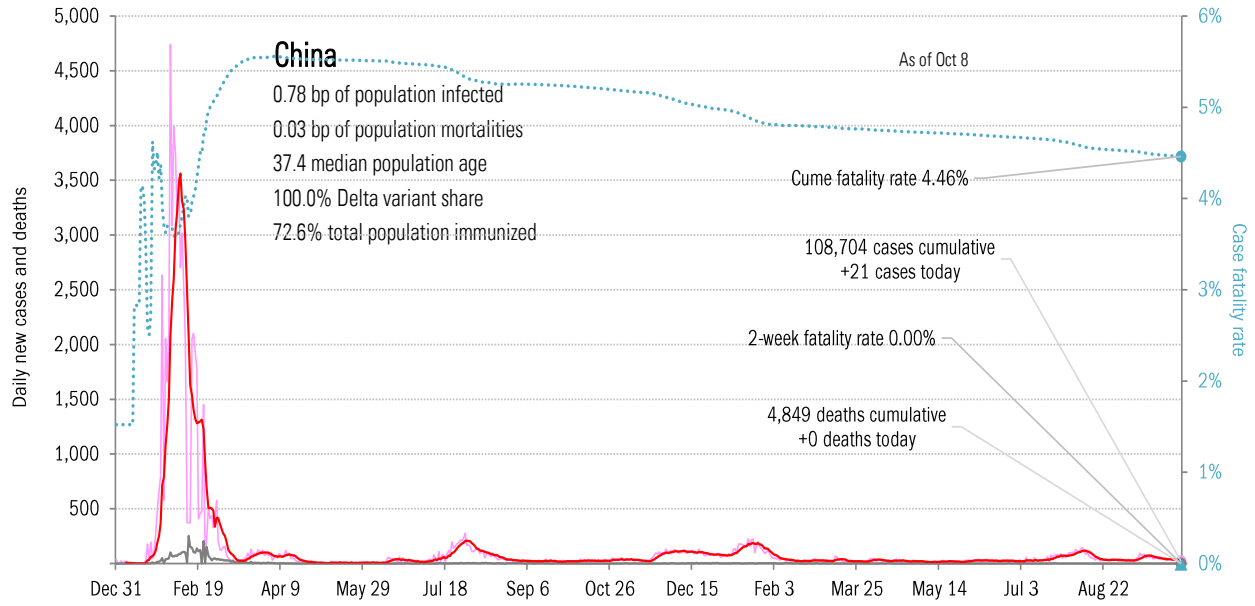
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

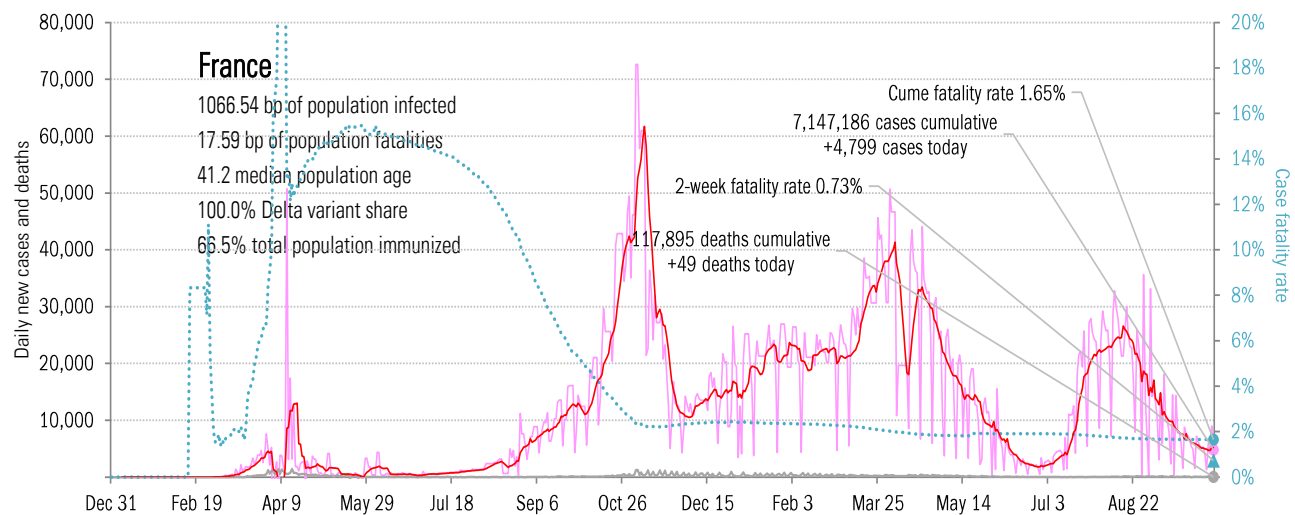
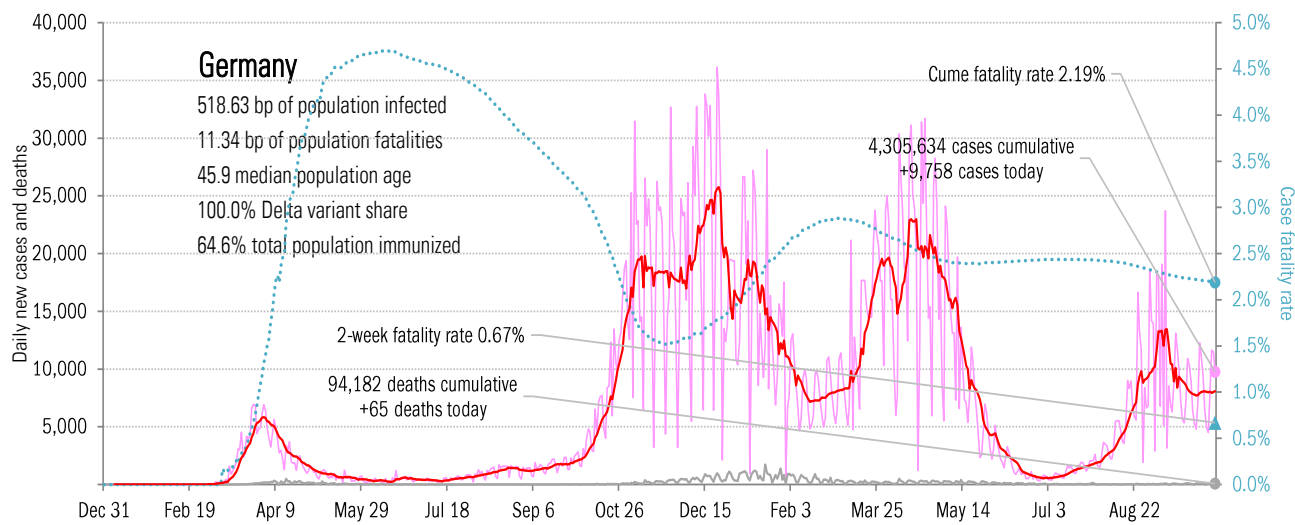
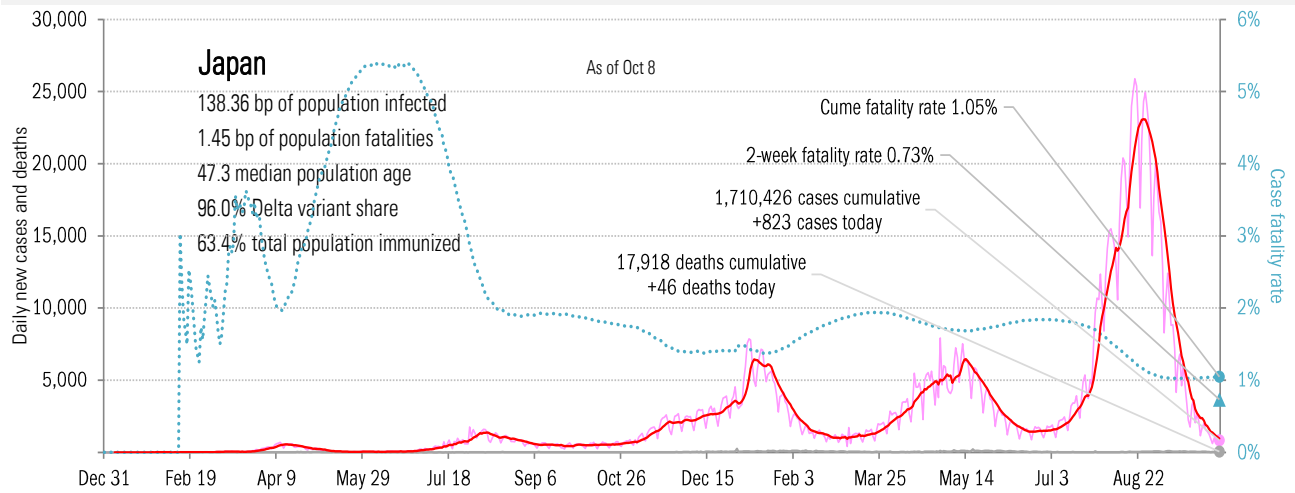
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

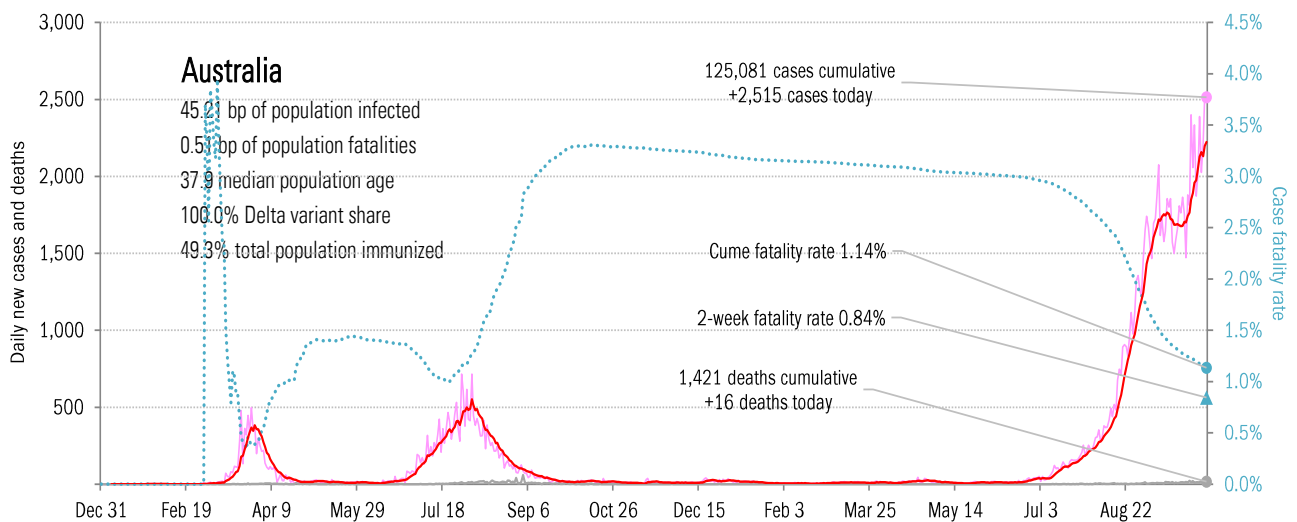
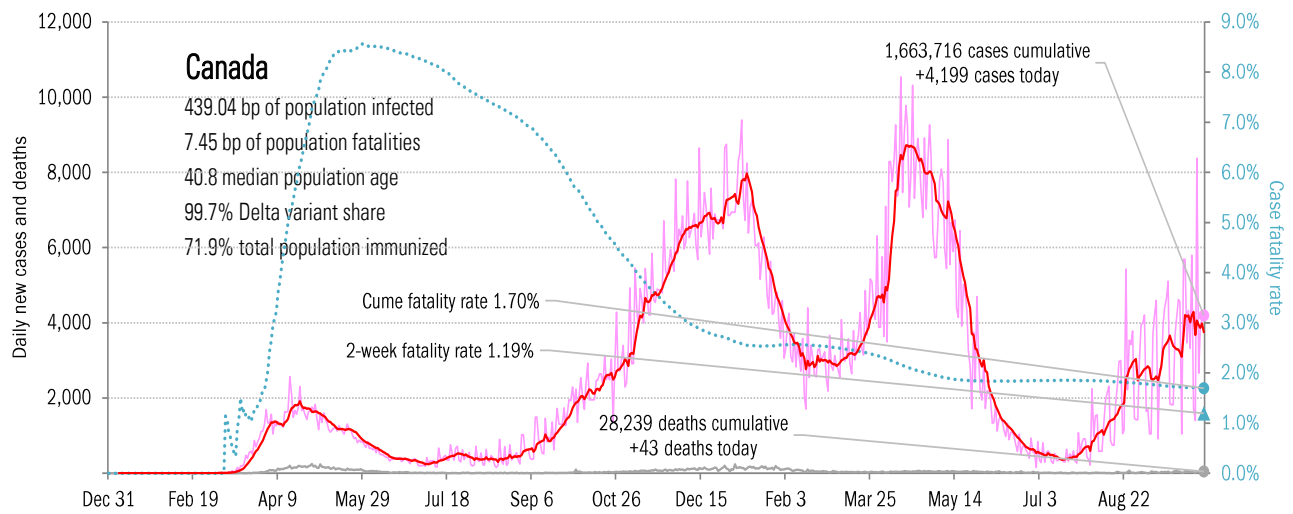
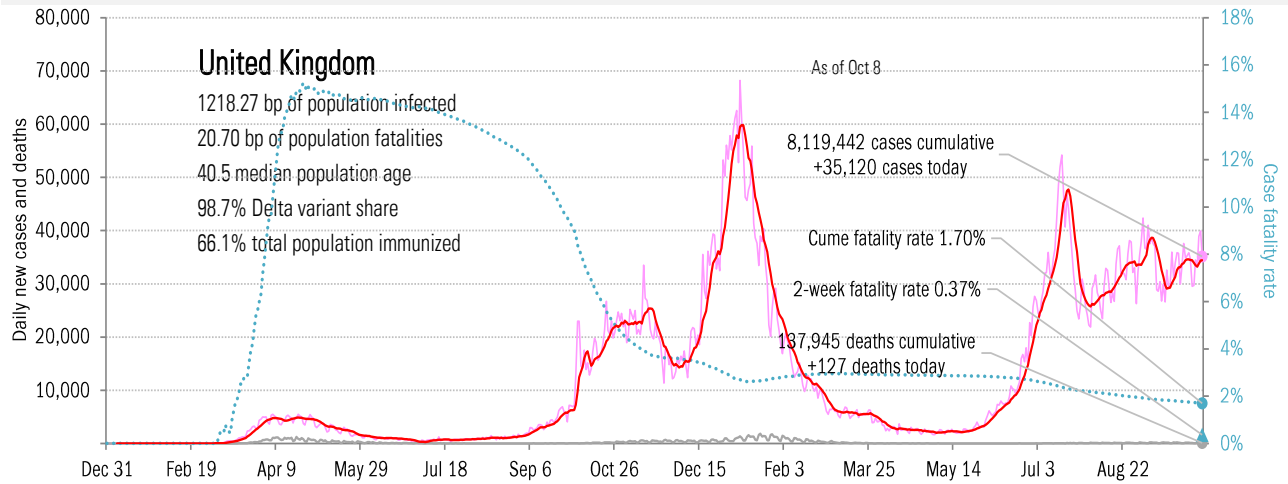
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

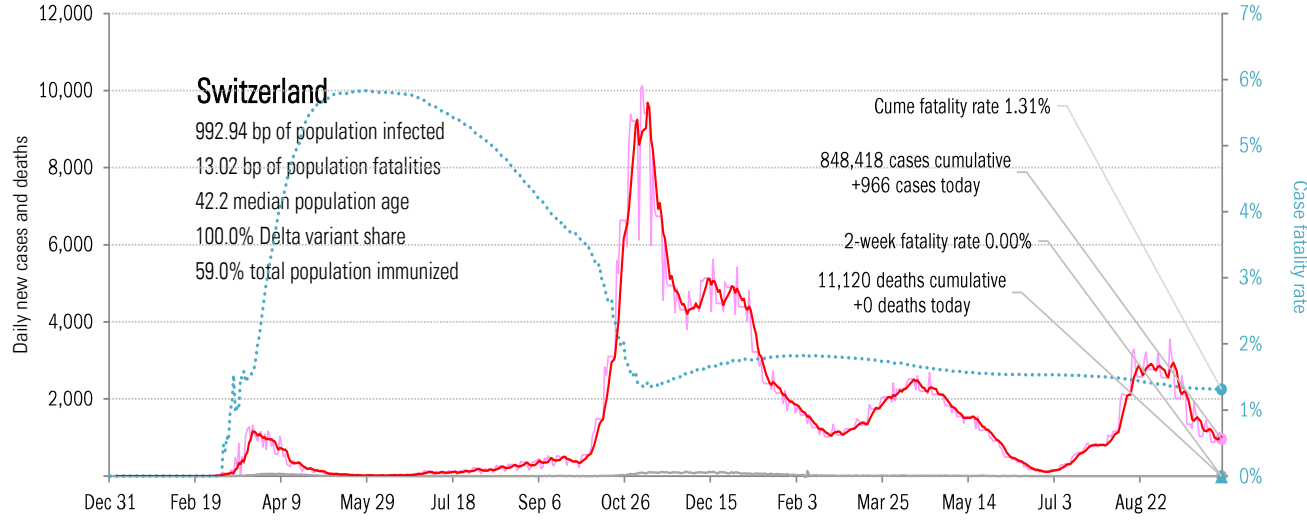
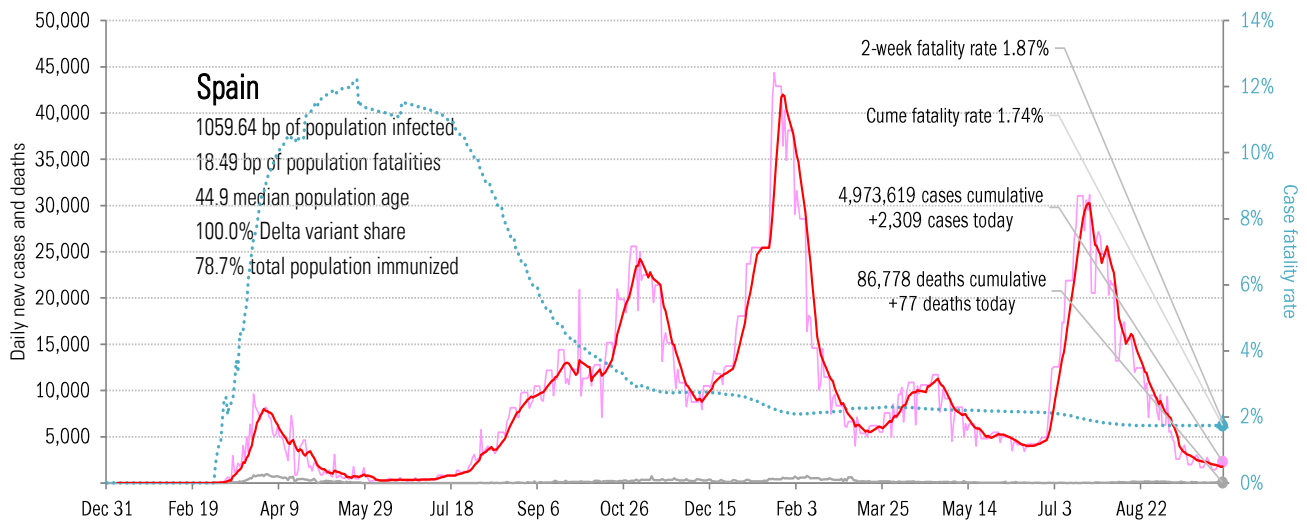
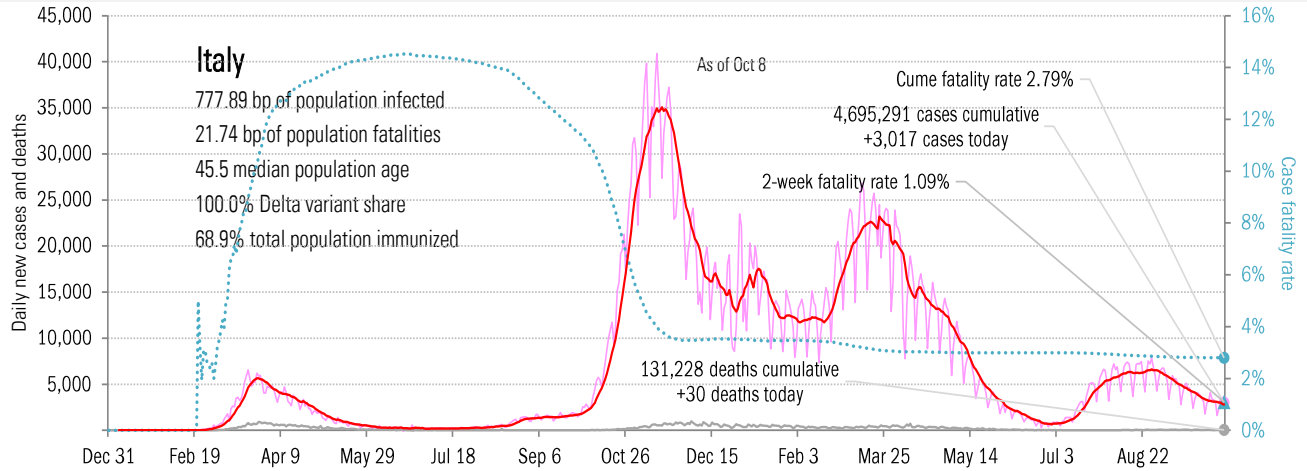


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

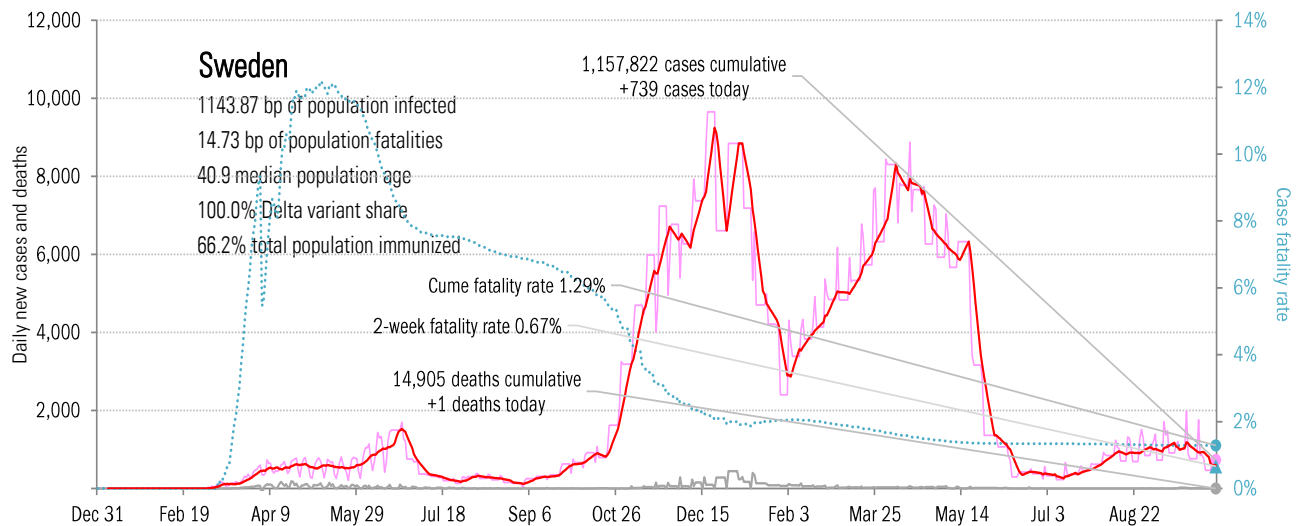
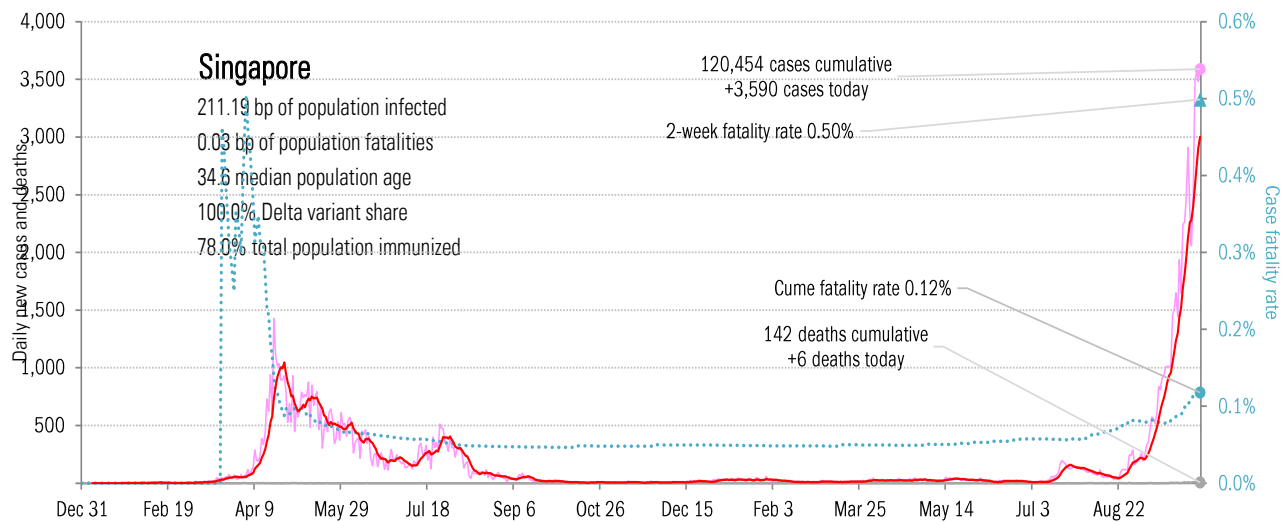
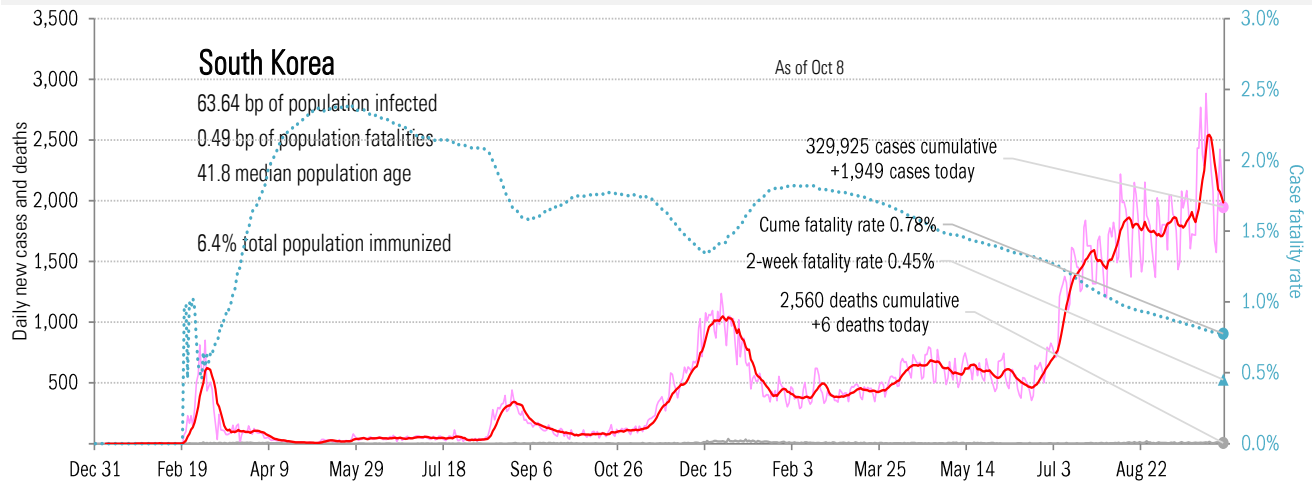
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

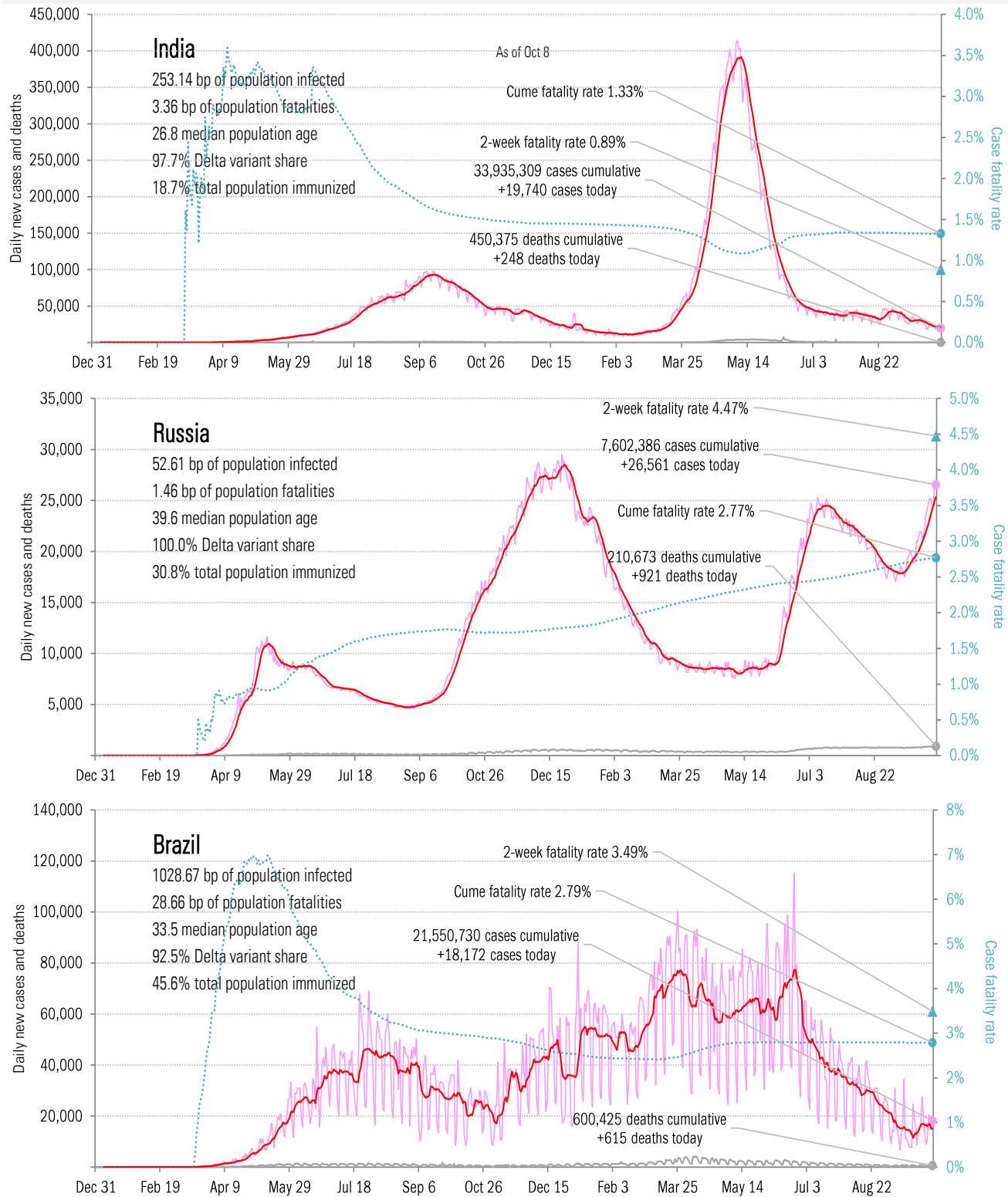
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

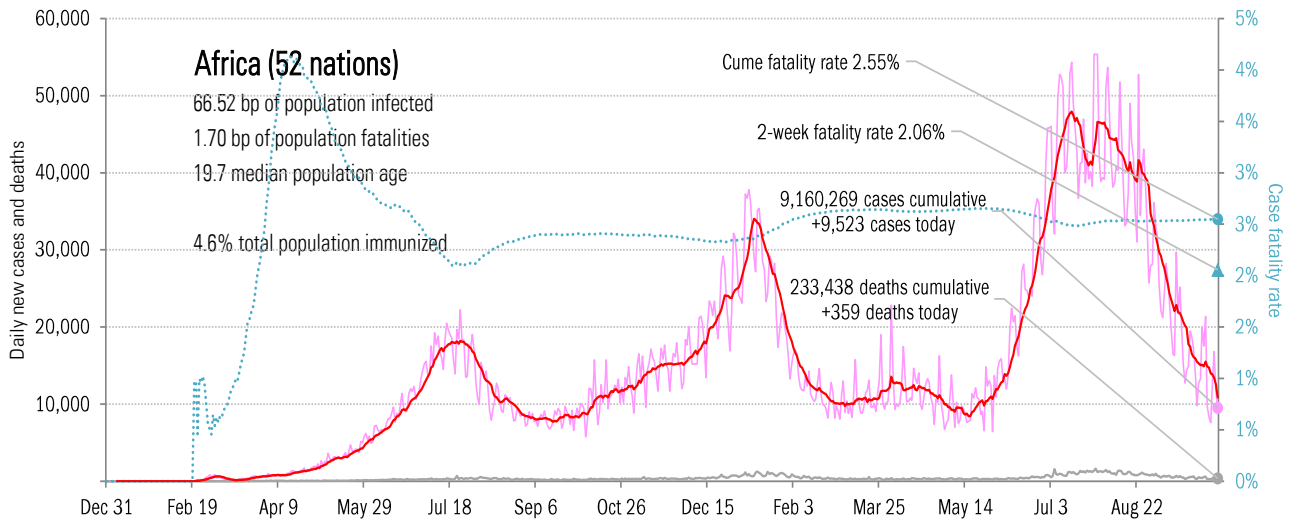
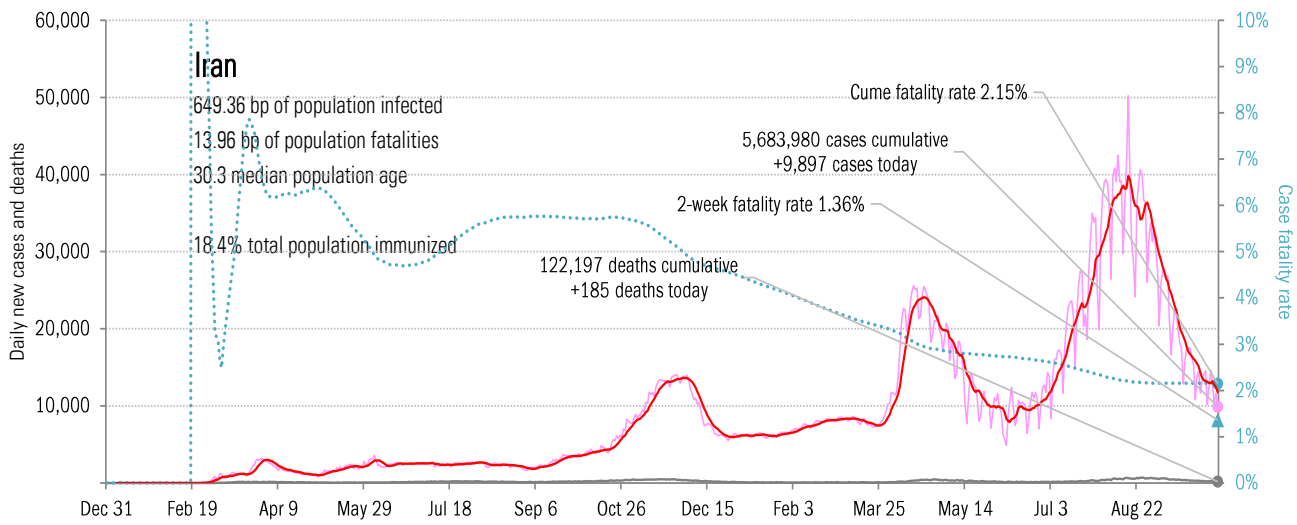
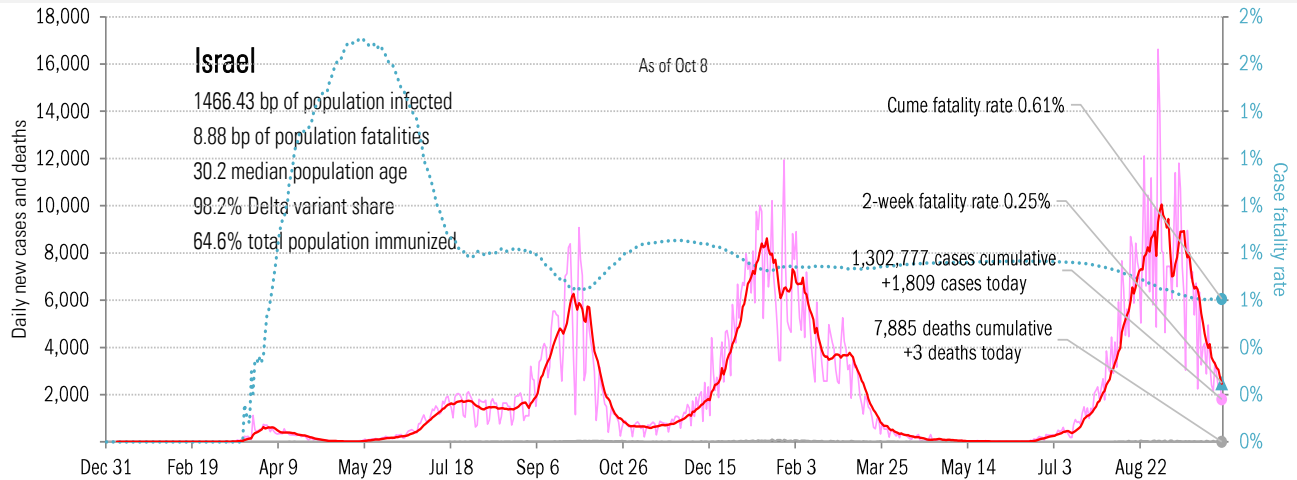
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

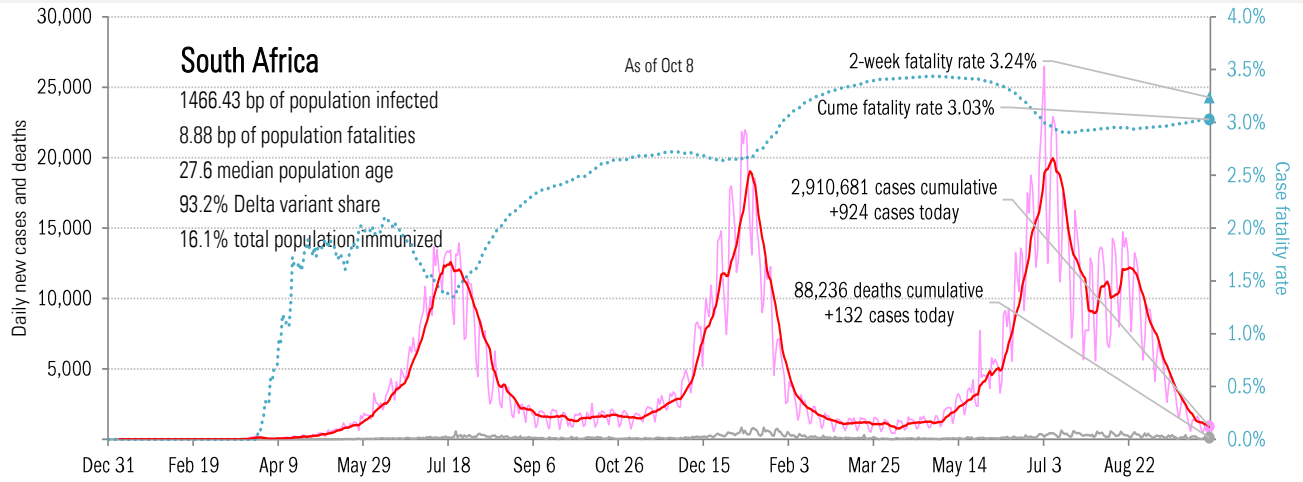
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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