

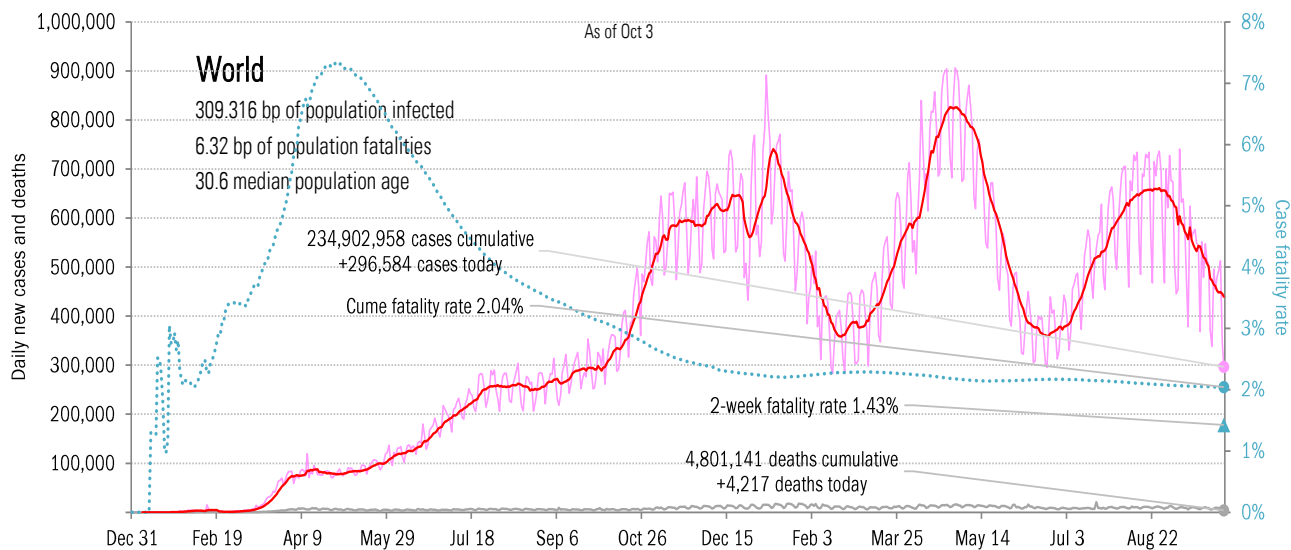
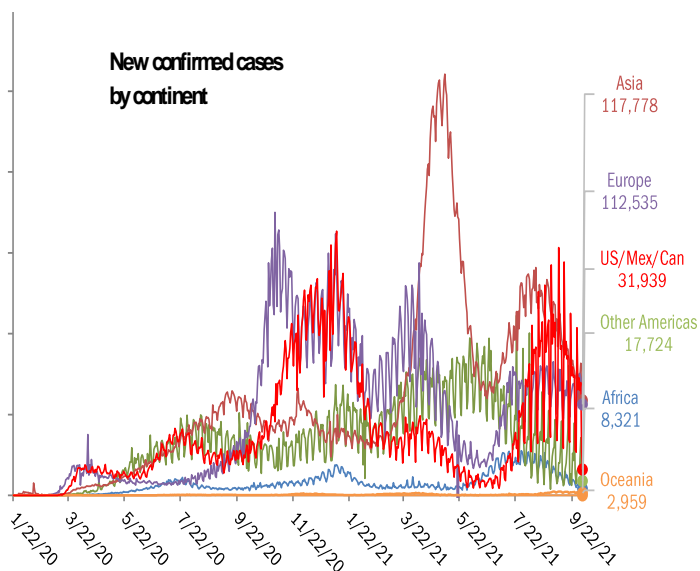
## Data Insights: Covid-2019 Monitor

Monday, October 4, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
	New cases		New Deaths
	United States +30,543	Russia	+882
	United Kingdom +29,719	United States	+483
	Turkey +27,351	Iran	+229
	Russia +25,161	Brazil	+225
	India +20,799	Turkey	+194
	Philippines +13,226	India	+180
	Iran +12,428	Romania	+150
	Thailand +10,828	Ukraine	+134
	Malaysia +9,066	Malaysia	+118
	Brazil +9,004	Vietnam	+114
	<b>+188,125</b>		<b>+2,709</b>
	<b>World +296,584</b>	<b>World</b>	<b>+4,217</b>
	<b>Top ten 63%</b>	<b>Top ten</b>	<b>64%</b>



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

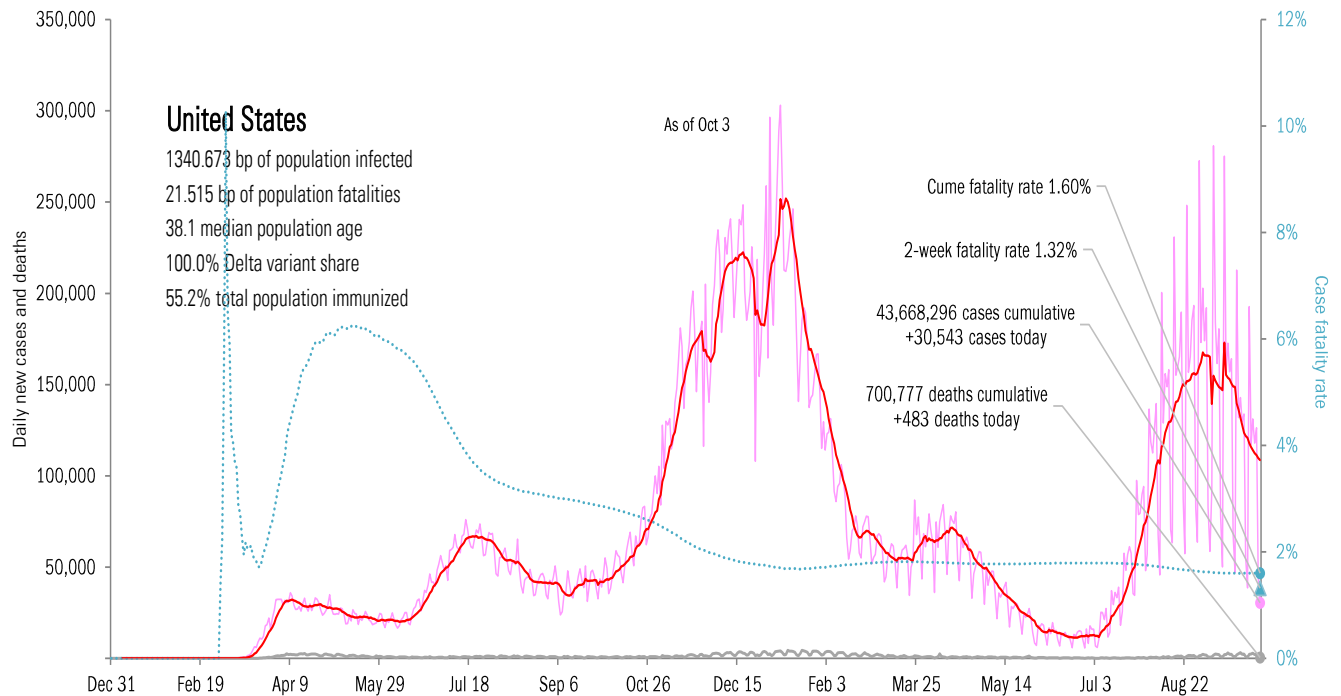
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
PA	+5,874		FL	+246		KY	+62		CA	4,732,419		CA	69,256		TX	360,658		MA	91%	GA	93%
FL	+5,328		TX	+129		GA	+39		TX	4,084,361		TX	65,914		FL	309,456		RI	86%	TX	91%
NY	+3,591		PA	+29		NJ	+37		FL	3,605,354		NY	55,457		CA	298,505		MD	85%	KY	91%
CH	+3,445		NY	+23		PA	+36		NY	2,439,639		FL	54,907		NY	156,546		GA	84%	ID	90%
AZ	+2,255		AR	+16		CO	+32		IL	1,630,864		PA	29,515		GA	152,922		MN	82%	AL	90%
NJ	+1,454		CA	+14		NM	+32		GA	1,582,063		NJ	27,472		CH	113,164		PA	82%	OK	88%
CA	+1,376		HI	+7		IA	+23		PA	1,444,053		IL	27,450		PA	107,438		CT	82%	NC	87%
MD	+1,092		NJ	+7		MN	+23		CH	1,429,745		GA	26,242		KY	107,128		MO	82%	WV	86%
TX	+1,056		MD	+4		CT	+21		NC	1,400,217		MI	22,439		IL	100,448		SC	81%	NH	86%
WV	+1,027		MO	+4		IL	+21		TN	1,231,820		CH	22,273		MI	83,993		NC	80%	NV	85%
+26,498			+479			+326			23,580,535			400,925			1,790,258						
All states	+30,543		+483			-5			All states	43,668,296		700,777			3,183,317			All states	70%	67%	
Top ten	87%		99%			-6520%			Top ten	54%		57%			56%			Median	76%	80%	

Some states not reporting

## Five most improved US states

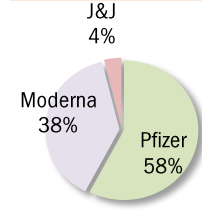
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-4,813	TX	-127	TN	-78	AL	+20 bp
IA	-3,522	AZ	-92	WI	-31	CA	+20 bp
CH	-2,649	AL	-75	MA	-25	CO	+20 bp
ME	-741	ID	-34	MI	-25	MO	+20 bp
AZ	-687	PA	-20	VA	-15	NJ	+20 bp



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

# Rolling out the vaccines in the US and the world

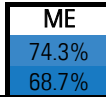
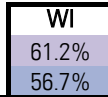
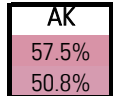
Administered	Cumulative		Today		Immunity	Full	Partial	
Doses	One dose	% Pop	Immune	% pop	New immune today			
	407,104,637				+1.262 million	US	55.2%	64.0%
Total population	220,475,373	66%	190,152,306	57%	+0.351 million	UK	65.9%	71.7%
Age 12 to 17	13,737,953	58%	11,174,285	47%	+0.042 million	France	65.7%	74.4%
Age 18 to 64	152,463,247	75%	130,832,111	64%	+0.265 million	Spain	78.4%	80.7%
Age 65 and over	53,196,065	97%	47,264,712	86%	+0.042 million	Germany	64.1%	67.6%
						Italy	68.2%	75.2%
						Australia	45.6%	65.9%
						Israel	64.3%	69.9%
						Canada	71.2%	77.1%
						Japan	61.2%	71.6%
						Africa	4.5%	6.9%
						India	17.7%	47.4%
						Brazil	42.5%	70.6%
						China	72.6%	76.2%



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

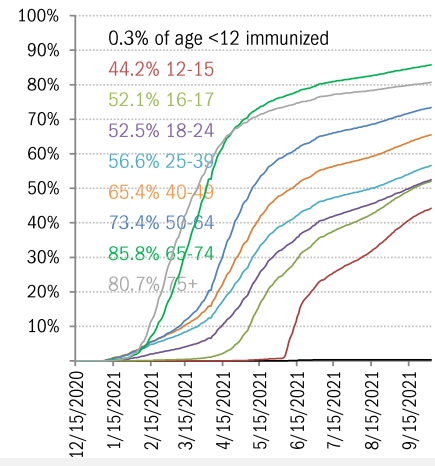
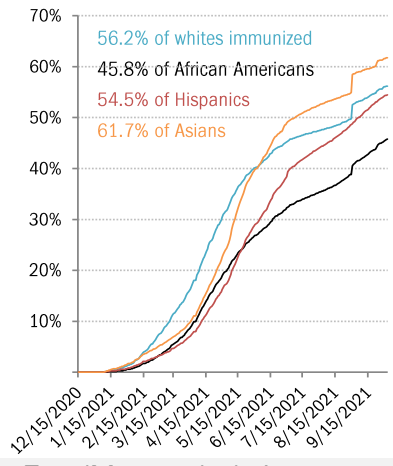
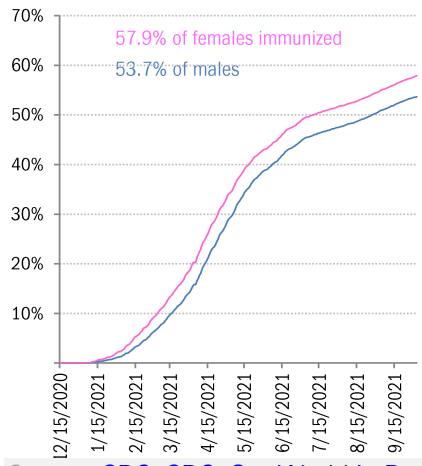


Every American >18 immune in **65 days** by Dec 7, 2021  
 69.0% of population >18 immunized  
 14.9% previously tested positive  
**83.8%** vs 60% adult herd immunity



WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
67.4%	47.3%	55.0%	51.3%	63.7%	68.7%	57.3%	71.8%	77.9%	70.4%	
61.0%	41.9%	48.6%	44.5%	58.4%	53.7%	52.6%	64.1%	69.6%	61.6%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
66.8%	61.0%	48.6%	59.4%	58.2%	52.4%	54.4%	73.0%	72.8%	77.7%	
61.1%	51.0%	41.7%	51.9%	54.1%	48.6%	50.4%	58.1%	64.6%	68.1%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
72.1%	59.1%	65.9%	59.5%	55.1%	61.1%	48.3%	68.6%	70.9%	76.6%	75.6%
59.3%	50.9%	59.7%	54.8%	48.2%	52.8%	40.5%	60.8%	64.4%	69.0%	68.6%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	59.5%	72.9%	60.2%	56.0%	52.8%	60.2%	55.5%	71.1%	66.6%	
	51.3%	63.5%	51.4%	45.9%	45.6%	50.1%	47.6%	60.3%	57.9%	
			OK	LA	MS	AL	GA			
			56.9%	52.0%	50.3%	52.9%	55.1%			
			47.9%	45.7%	43.6%	42.9%	45.7%			
			TX					FL		PR
			59.8%					67.1%		79.5%
			51.4%					57.4%		70.7%

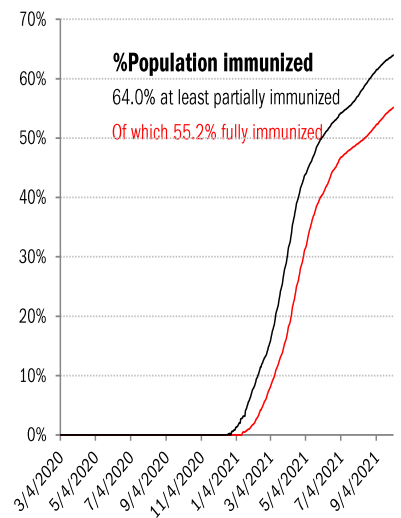
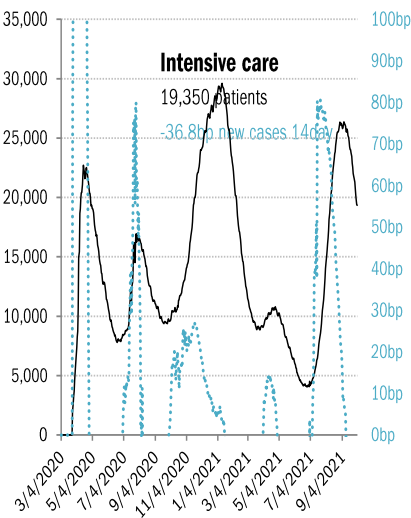
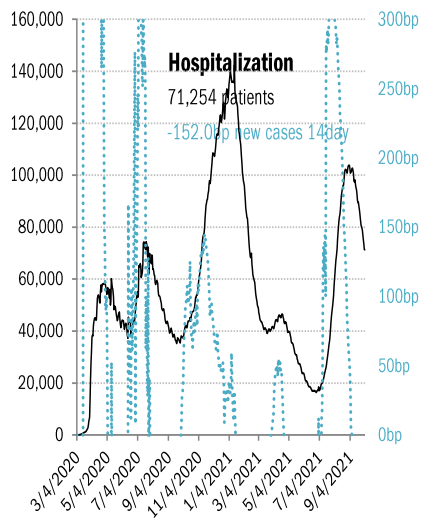
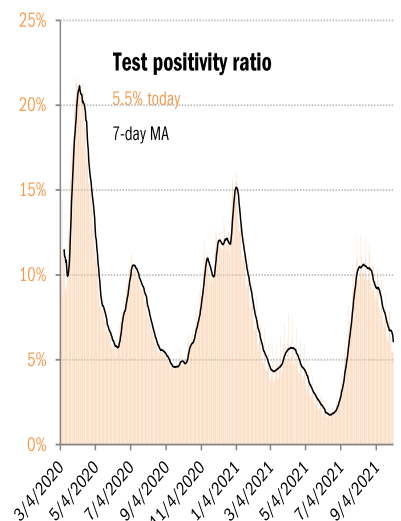
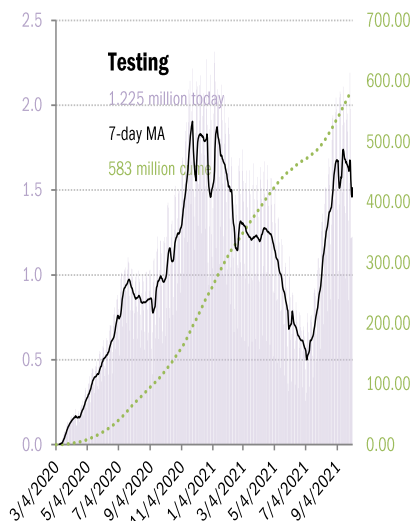
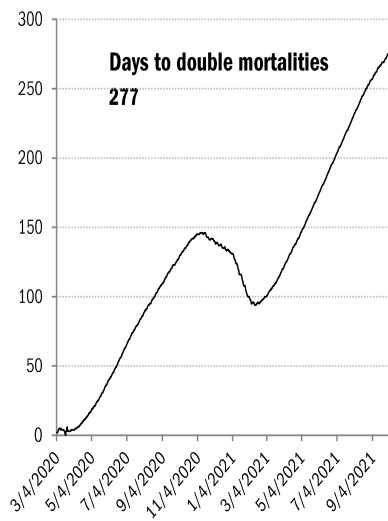
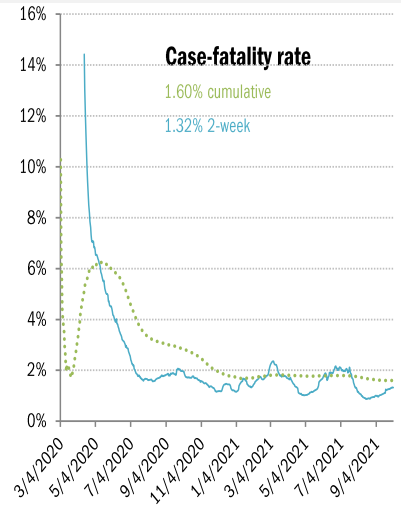
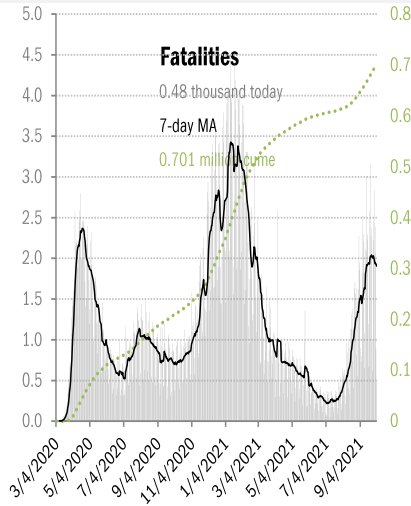
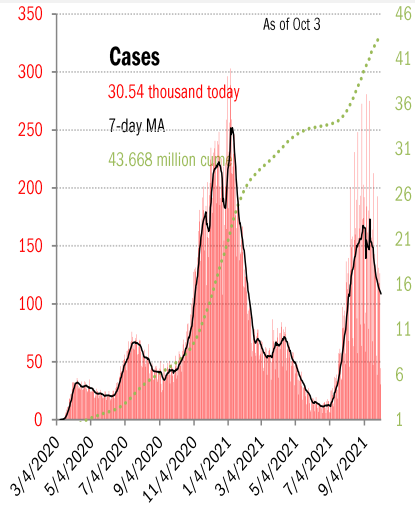
## The demographics of US vaccination



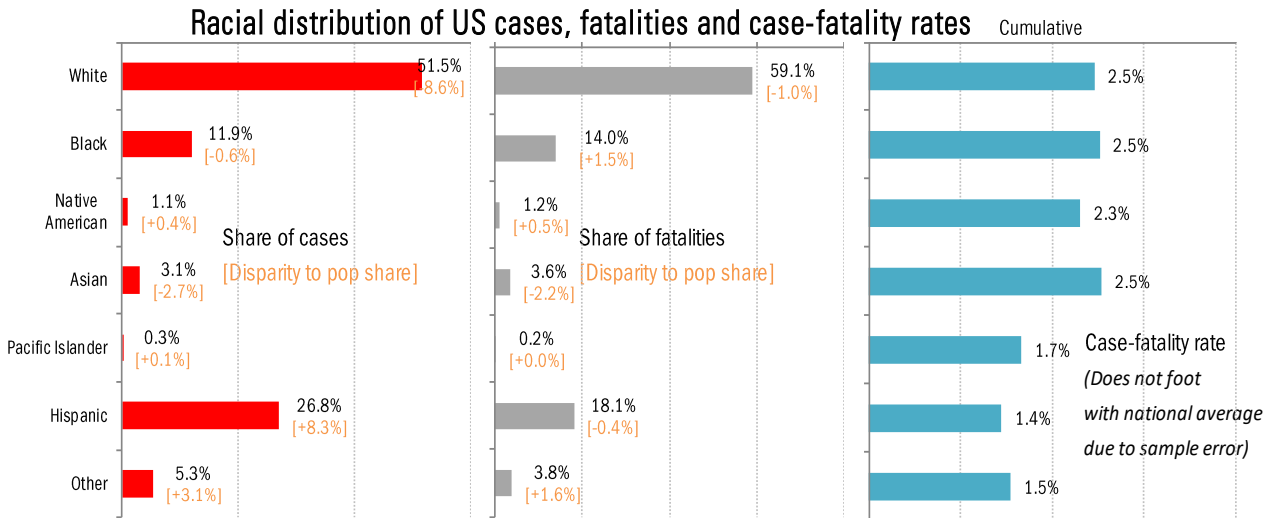
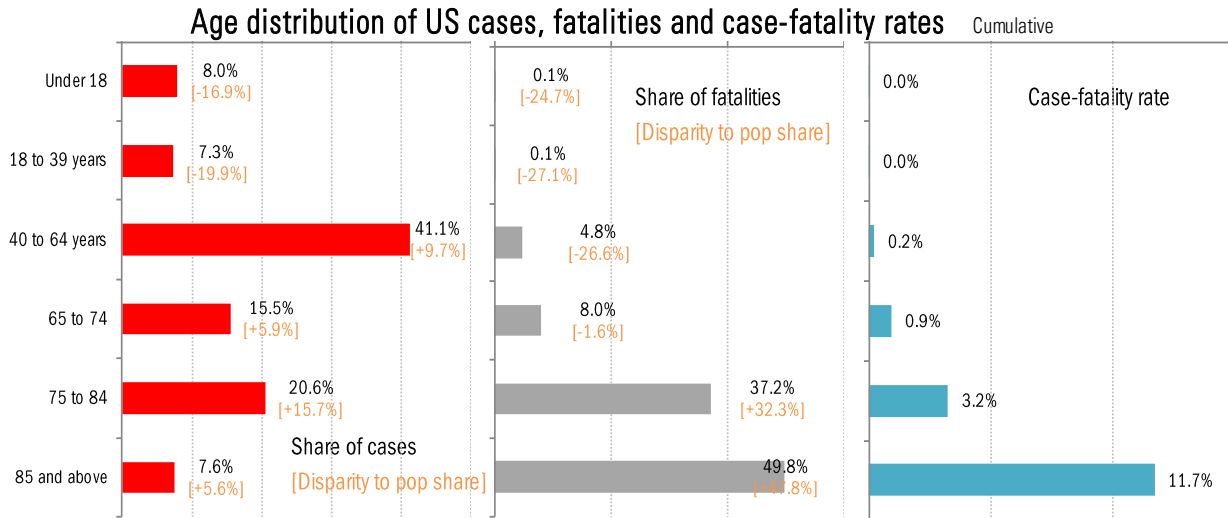
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

# US deep-dive

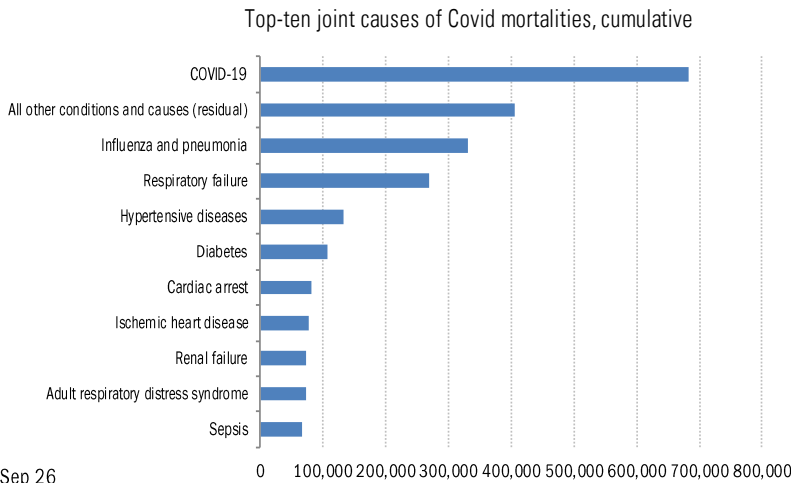
National and state-by-state data do not line up because of different sources



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



### Comorbidities



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

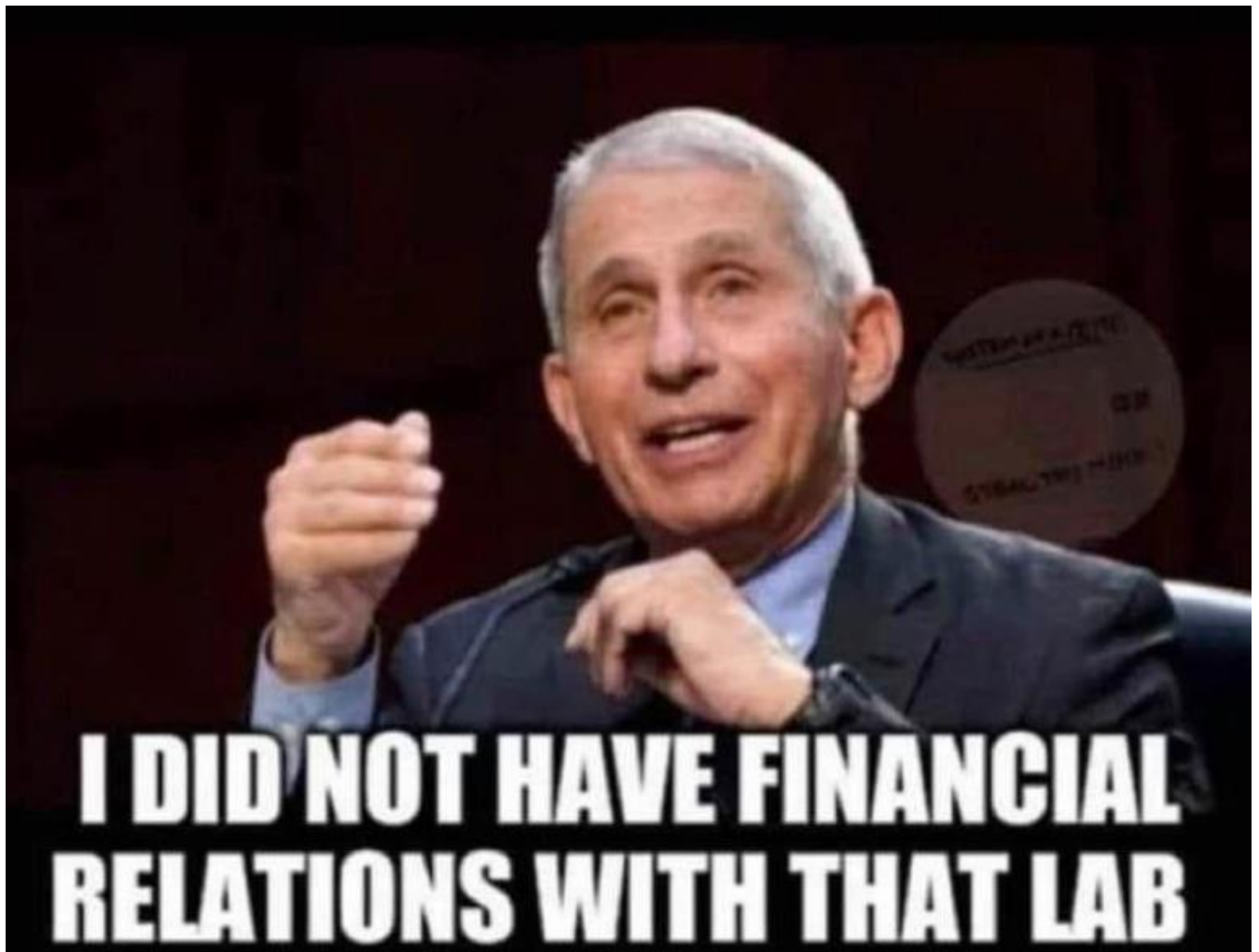
[In Alaska's Covid Crisis, Doctors Must Decide Who Lives and Who Dies](#)

Mike Baker  
*New York Times*  
October 3, 2021

[The Covid Survey That Should Have Rocked the World](#)

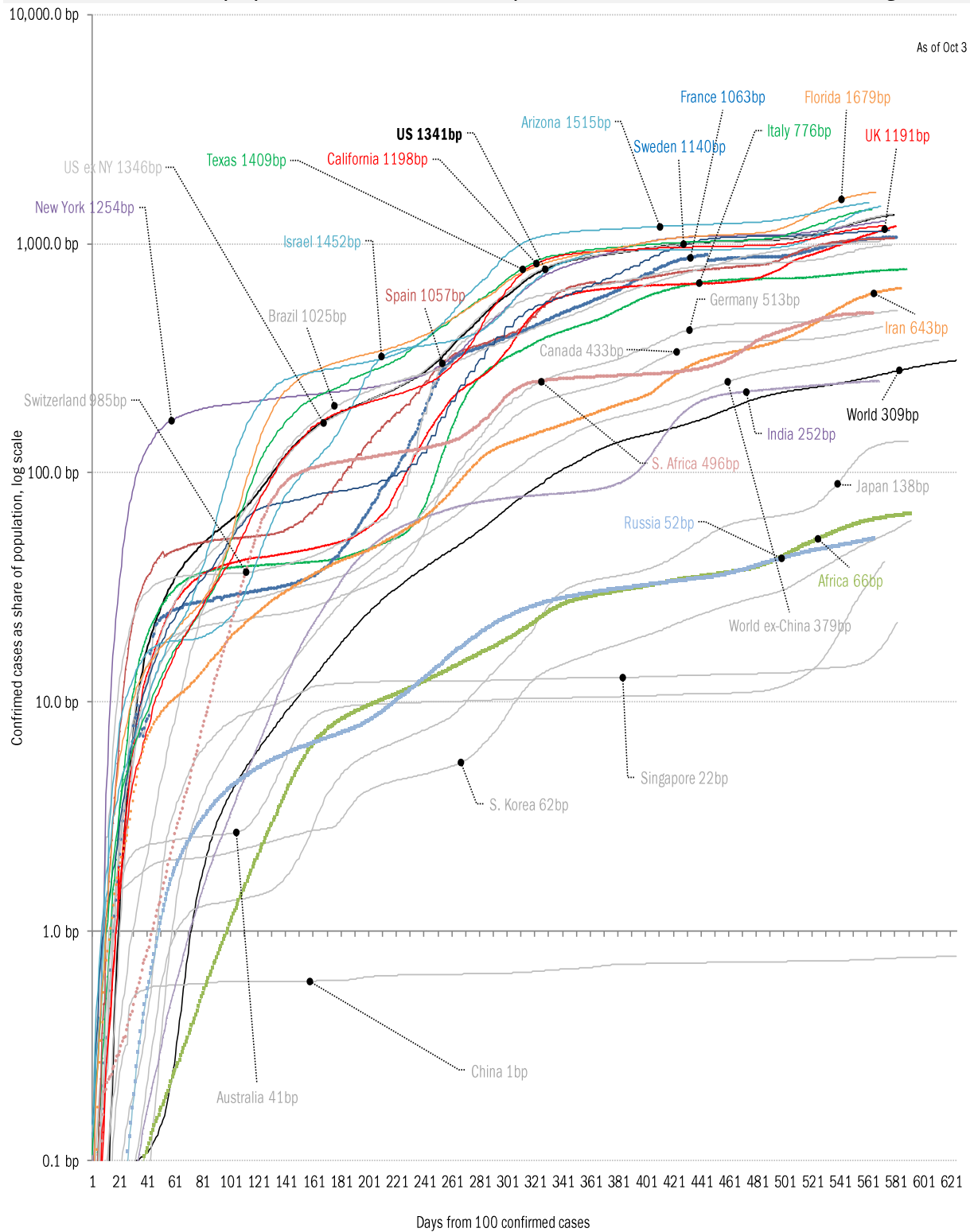
Jack Cashill  
*American Spectator*  
October 3, 2021

## Meme of the day



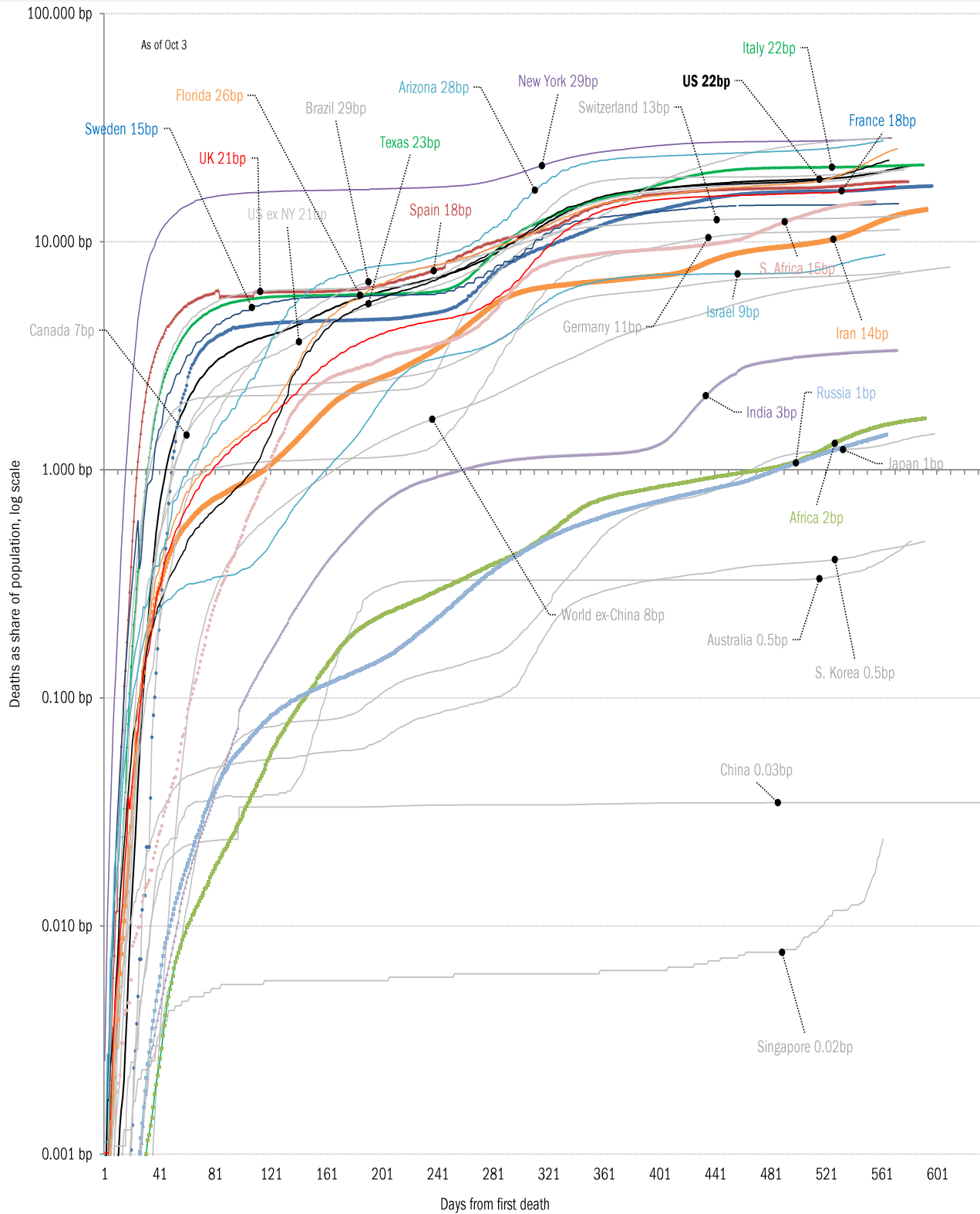
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



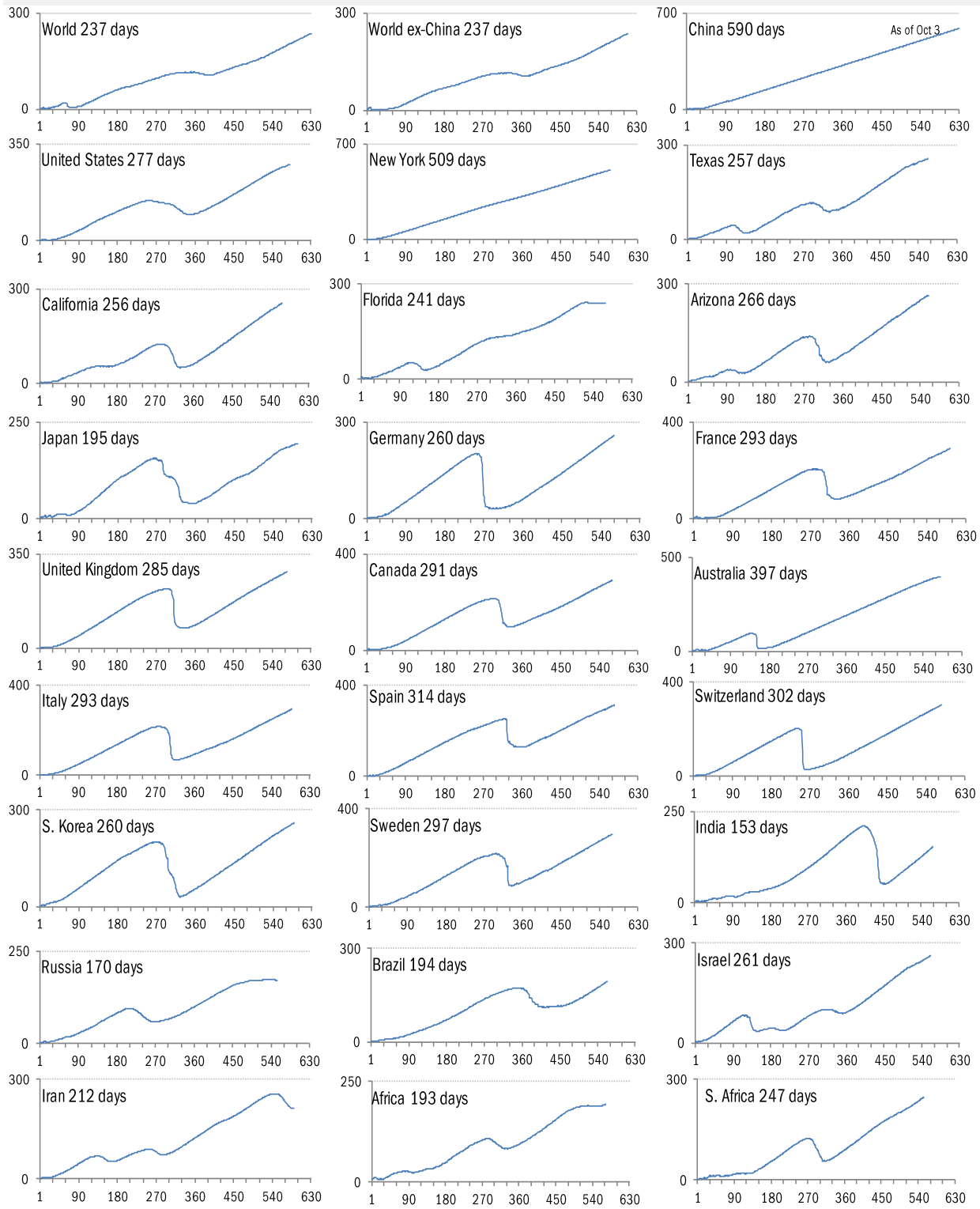
Source: [Johns Hopkins](#), TrendMacro calculations



# "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

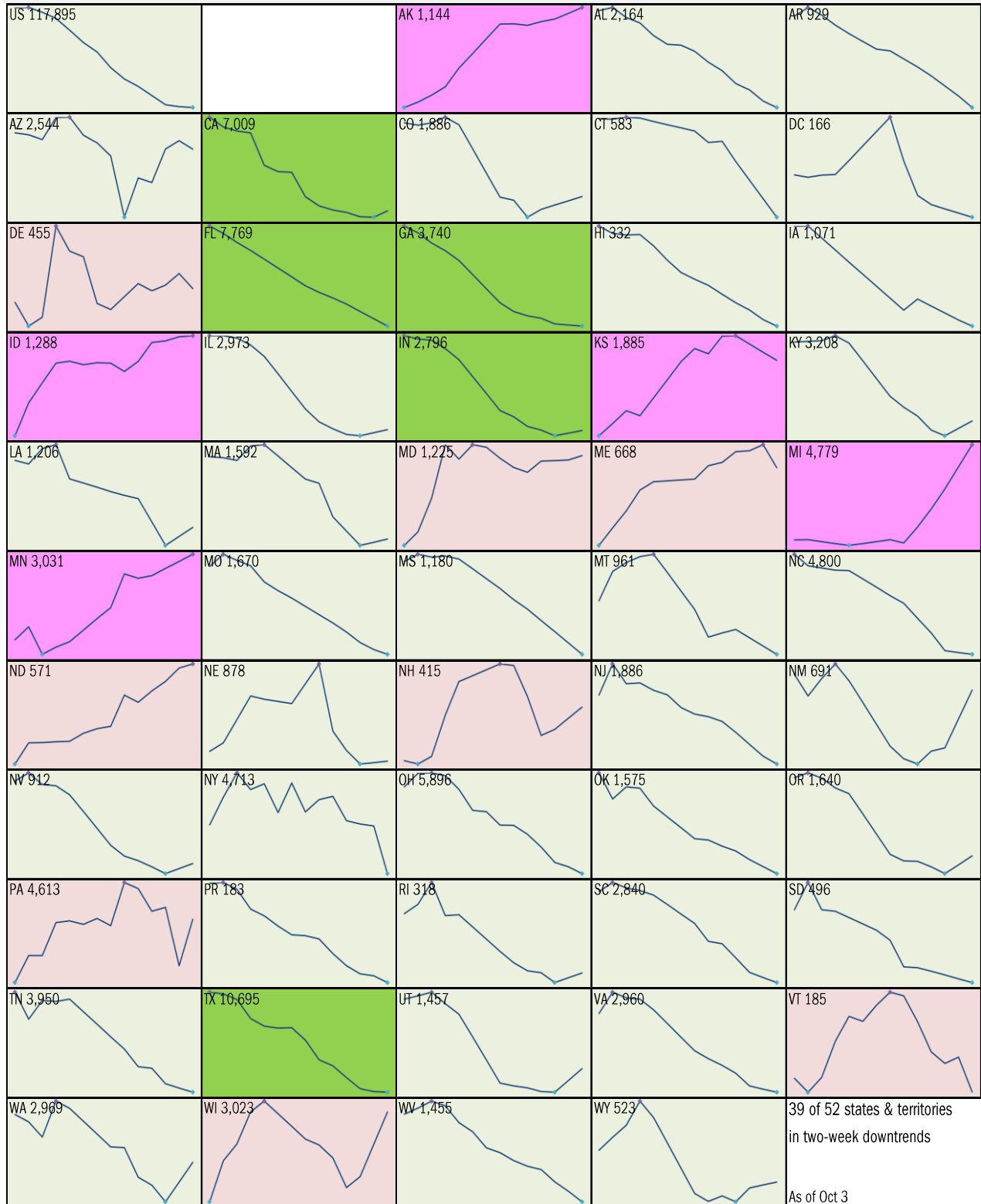


Source: [Johns Hopkins](#), TrendMacro calculations

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

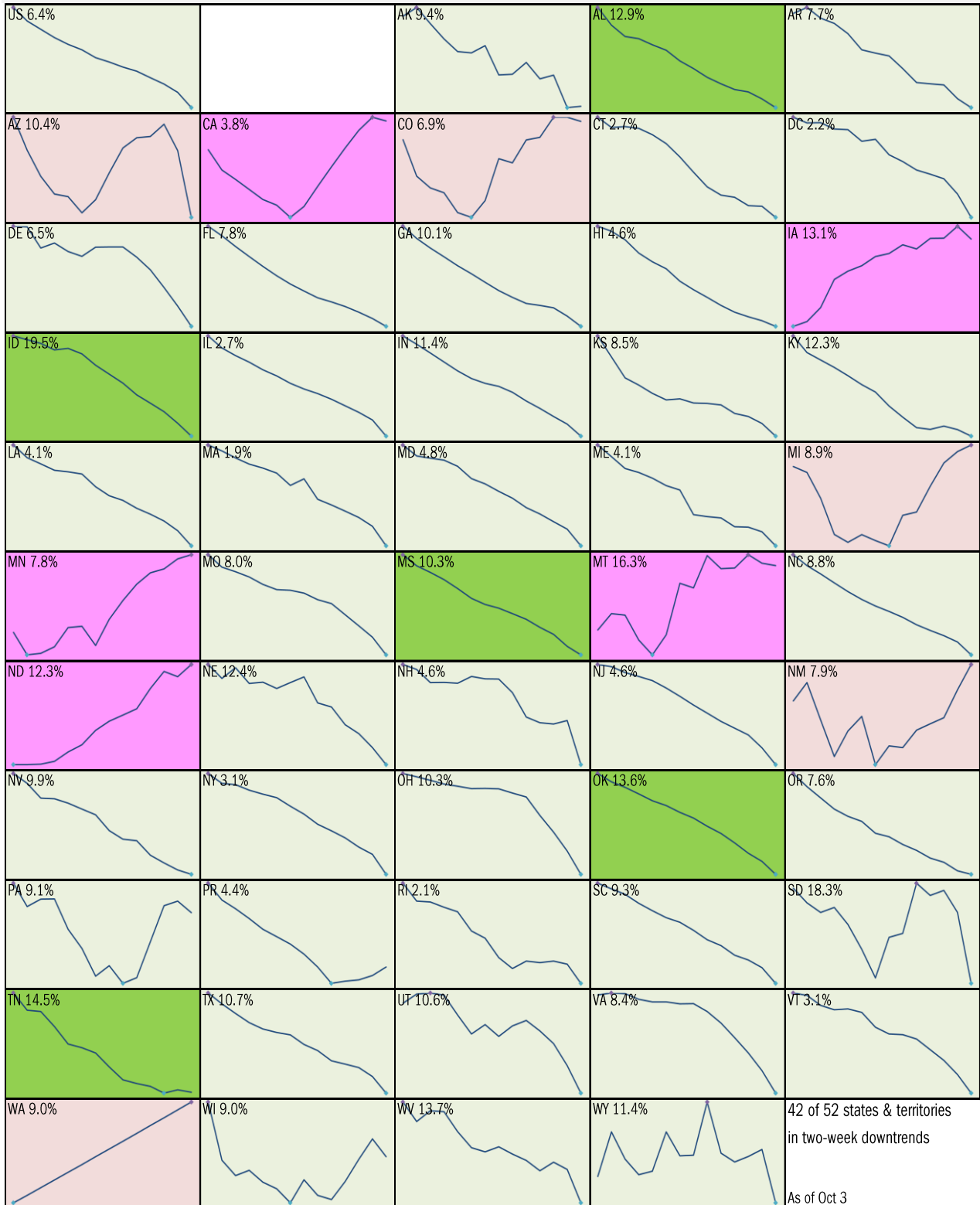


Source: [Johns Hopkins](#), TrendMacro calculations

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

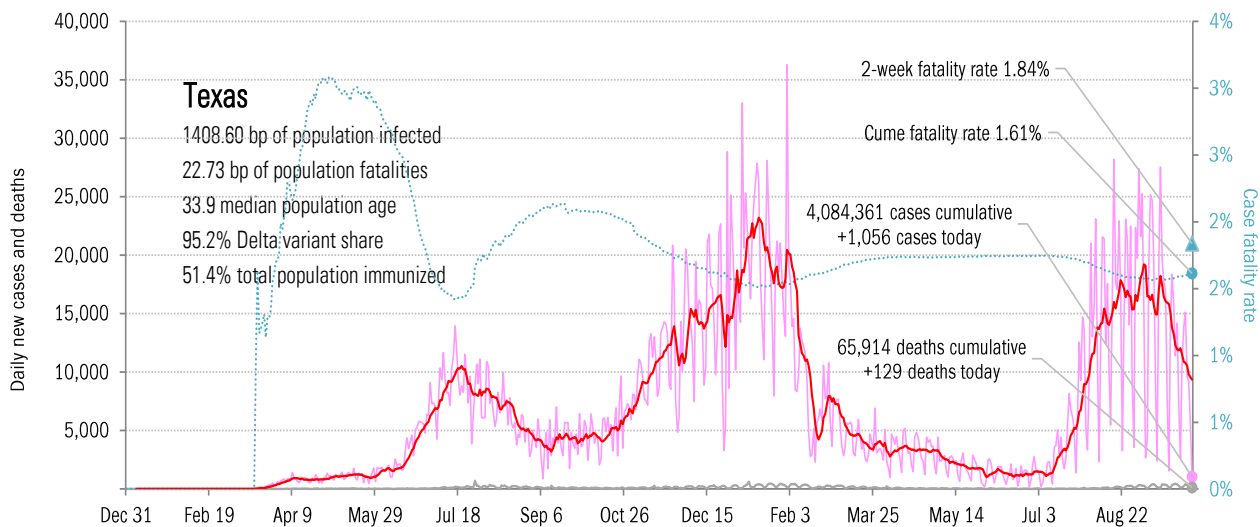
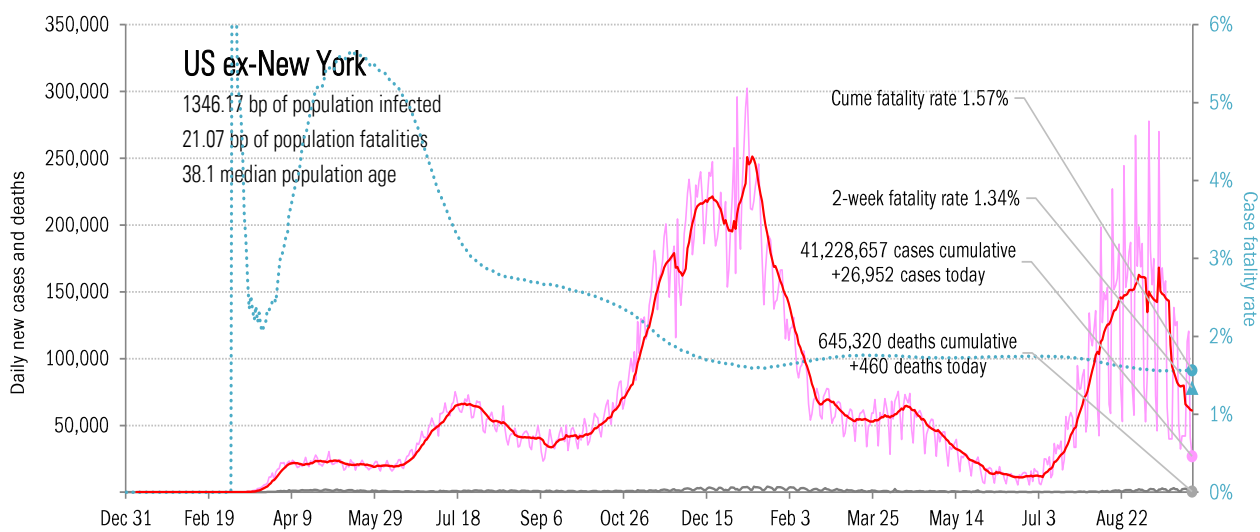
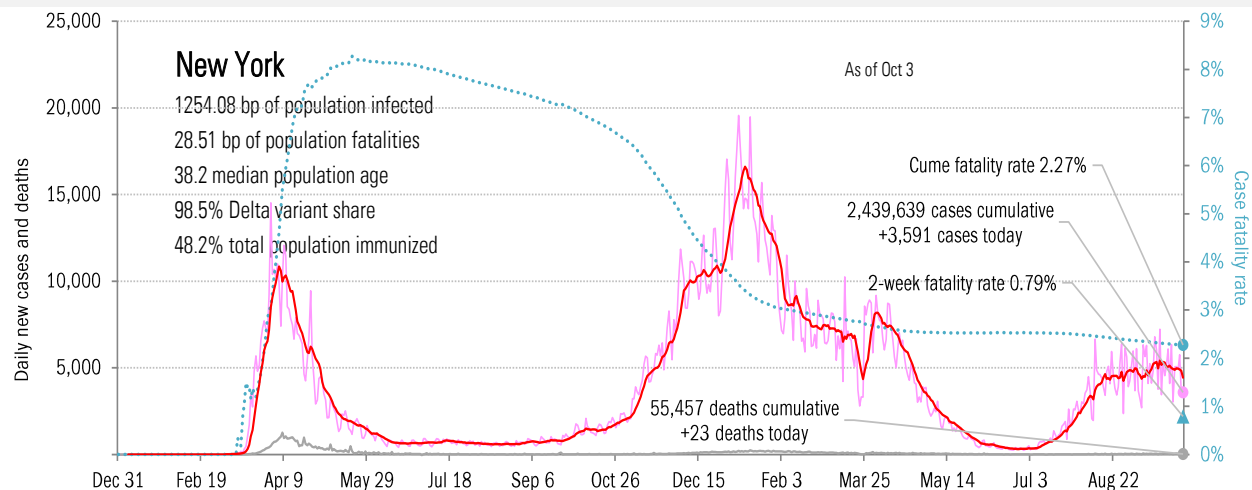
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

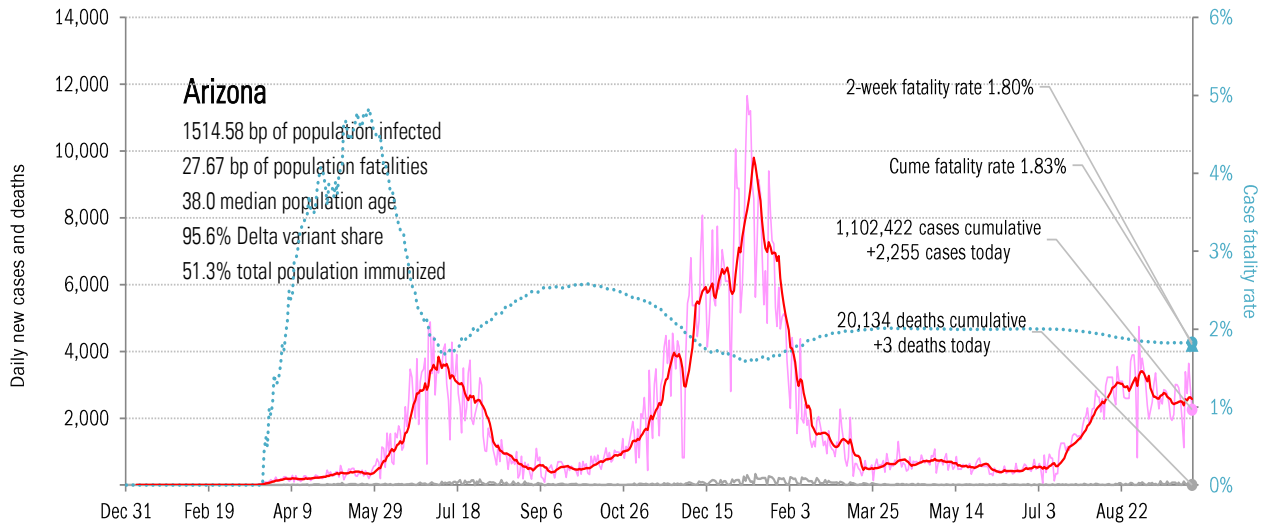
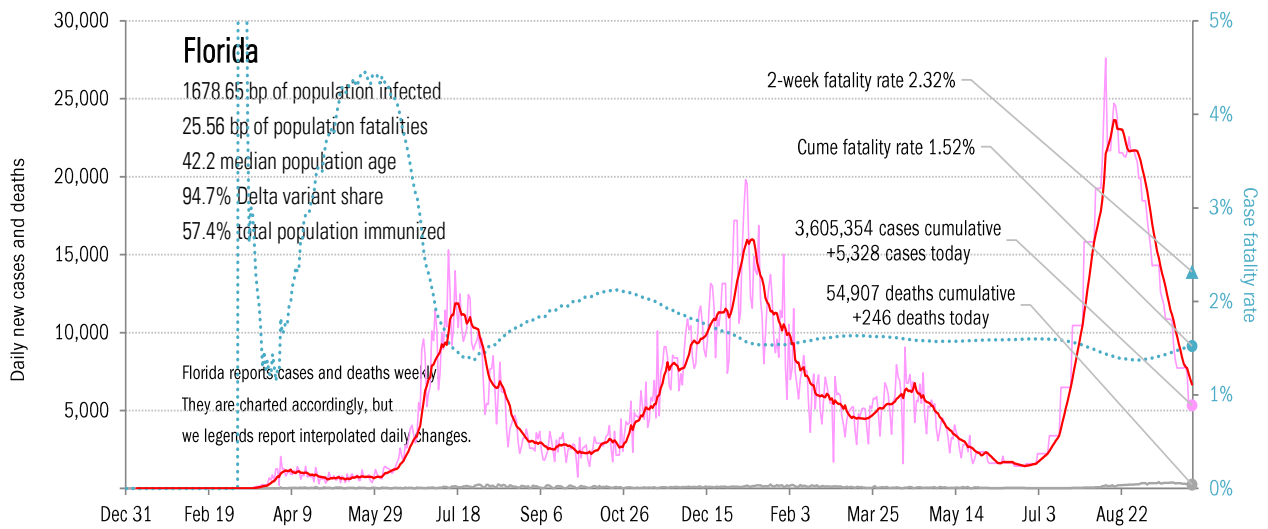
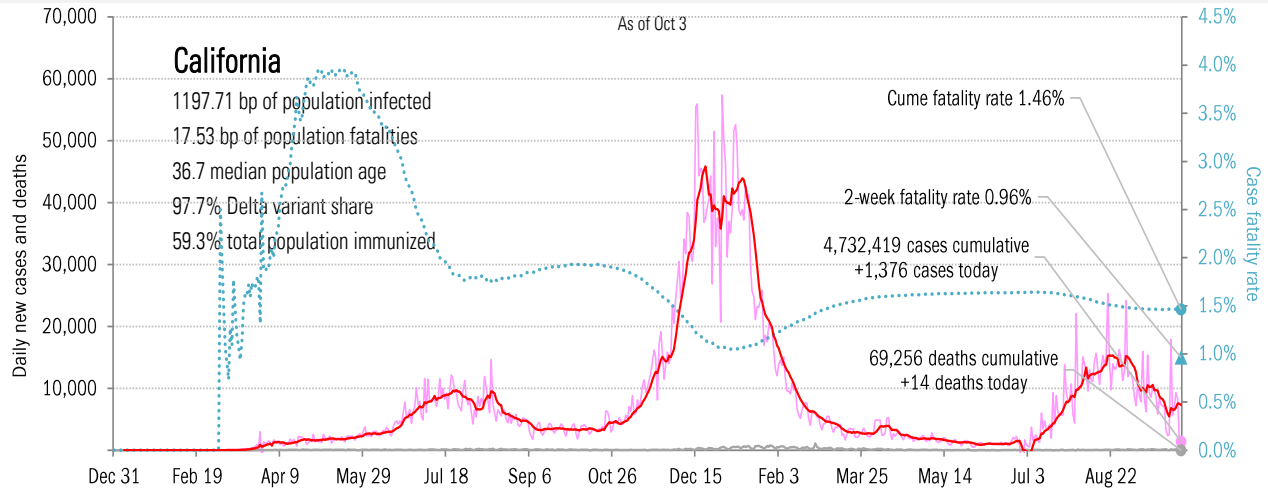
Cases: 7-day average and daily Deaths: Daily



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

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

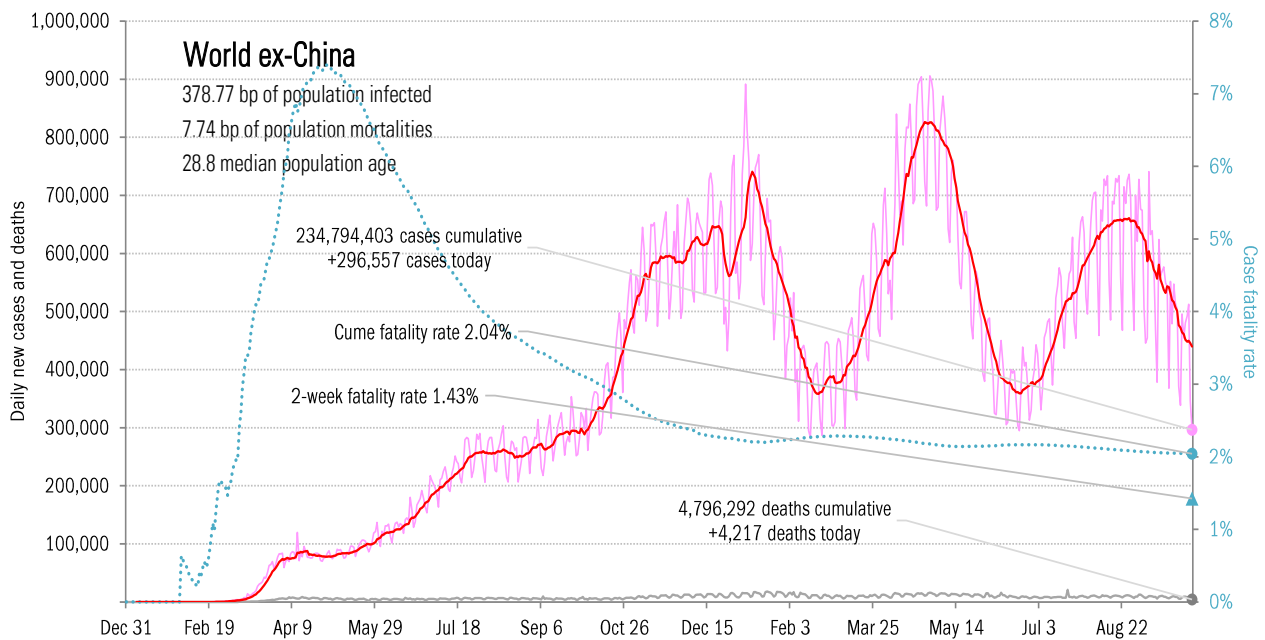
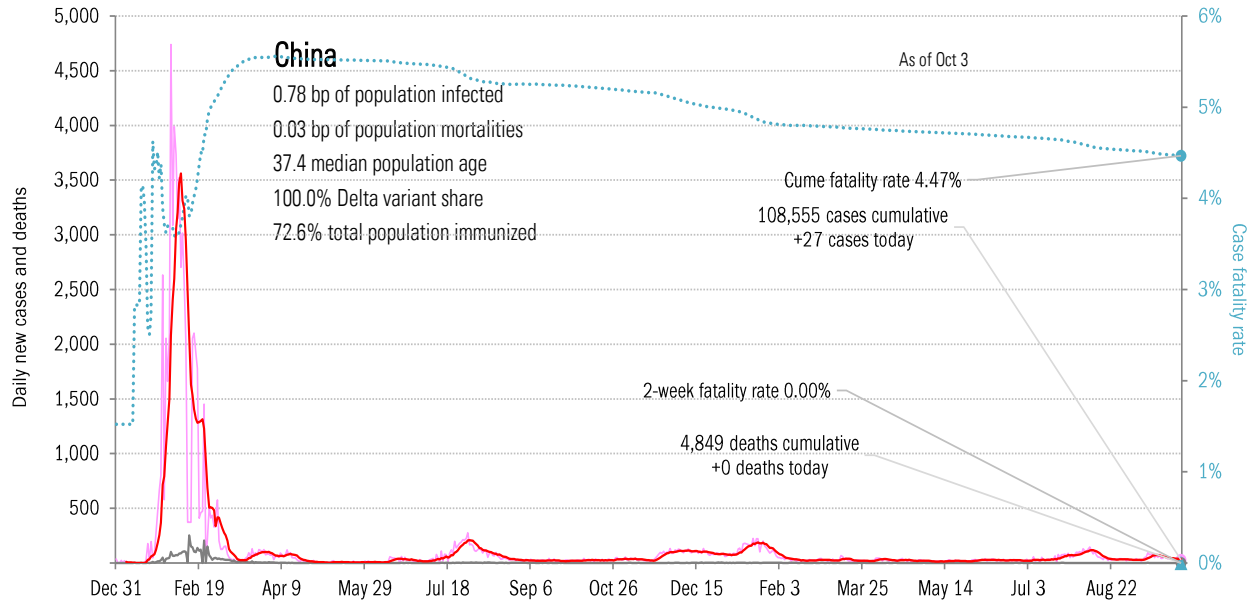
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

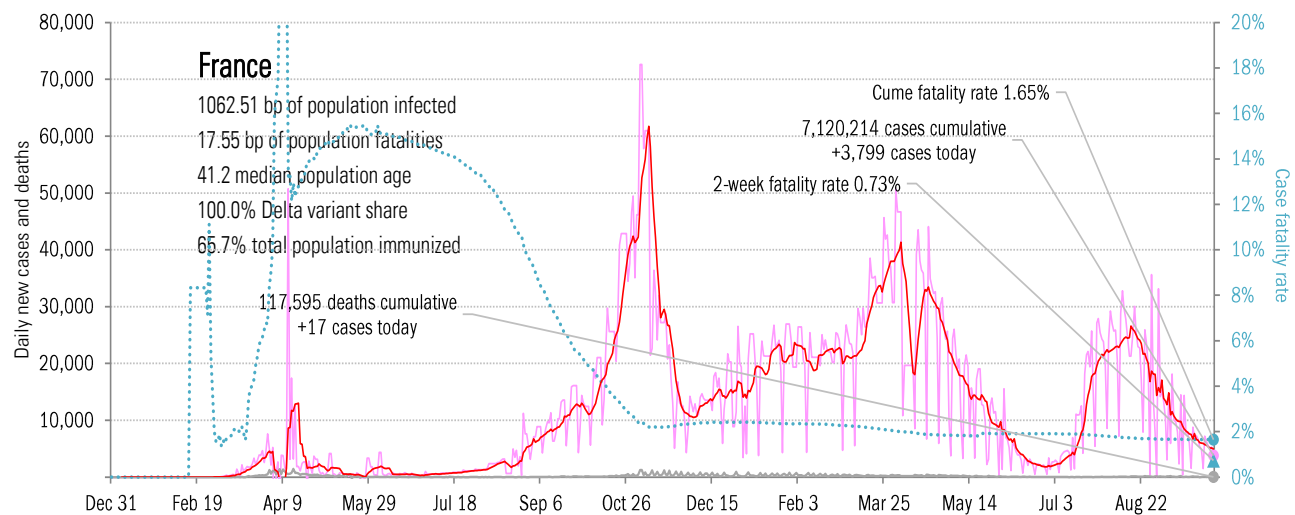
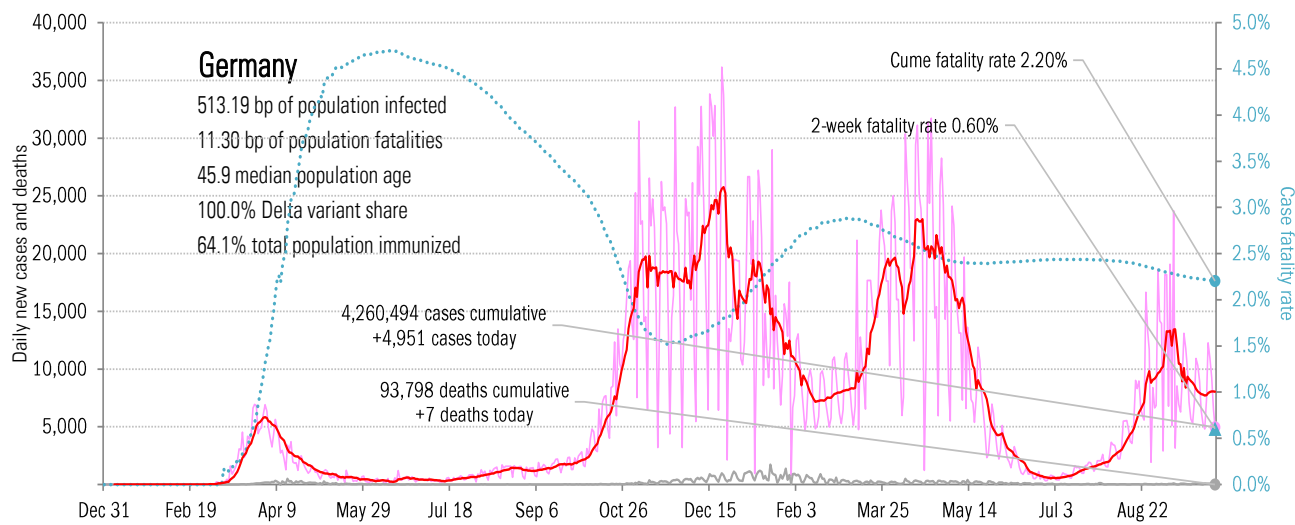
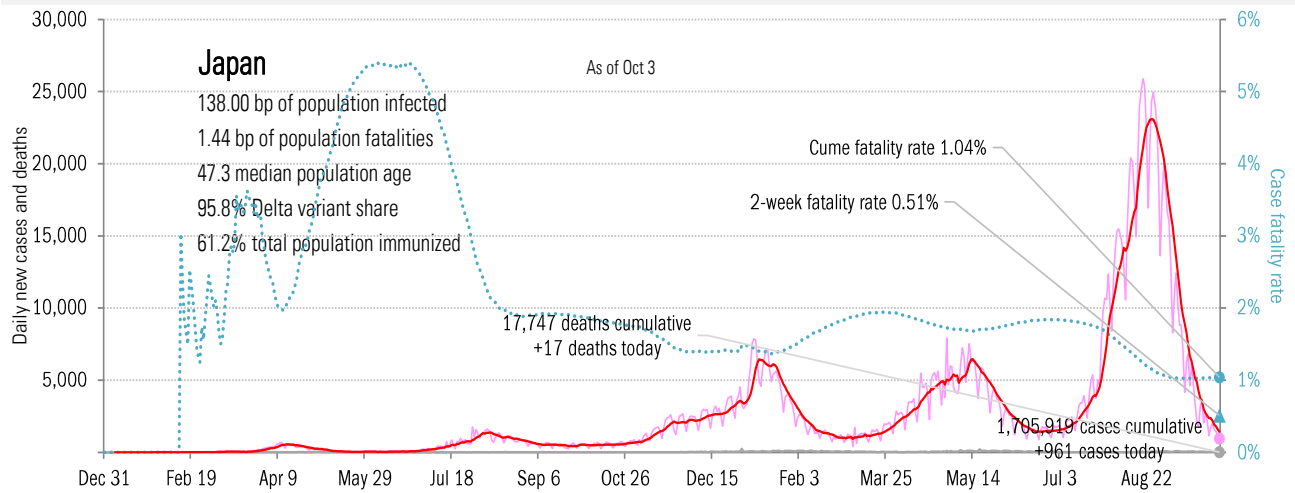
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

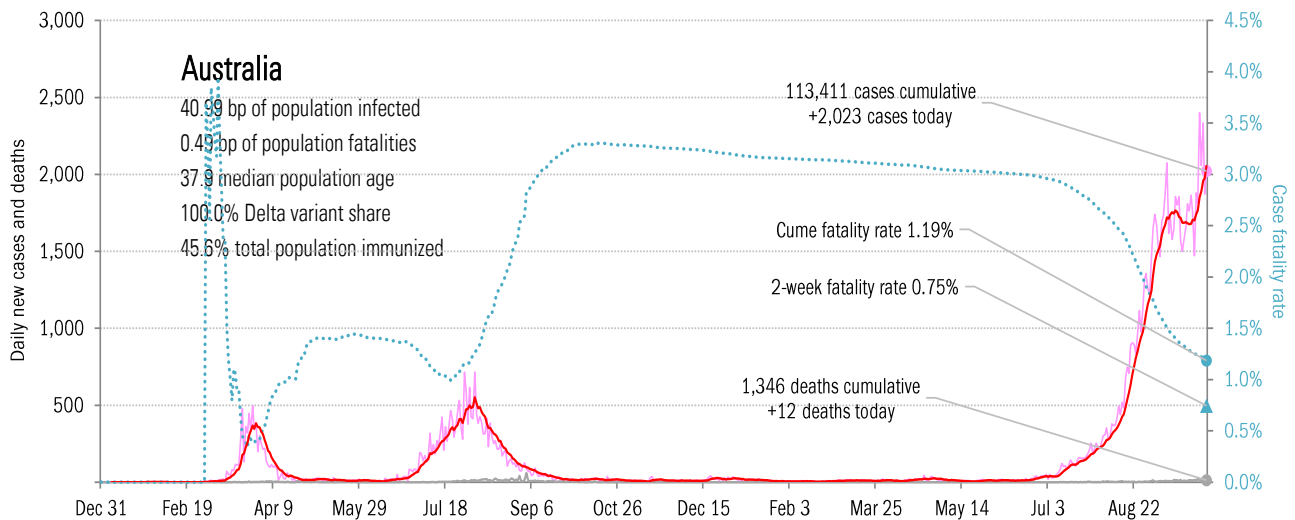
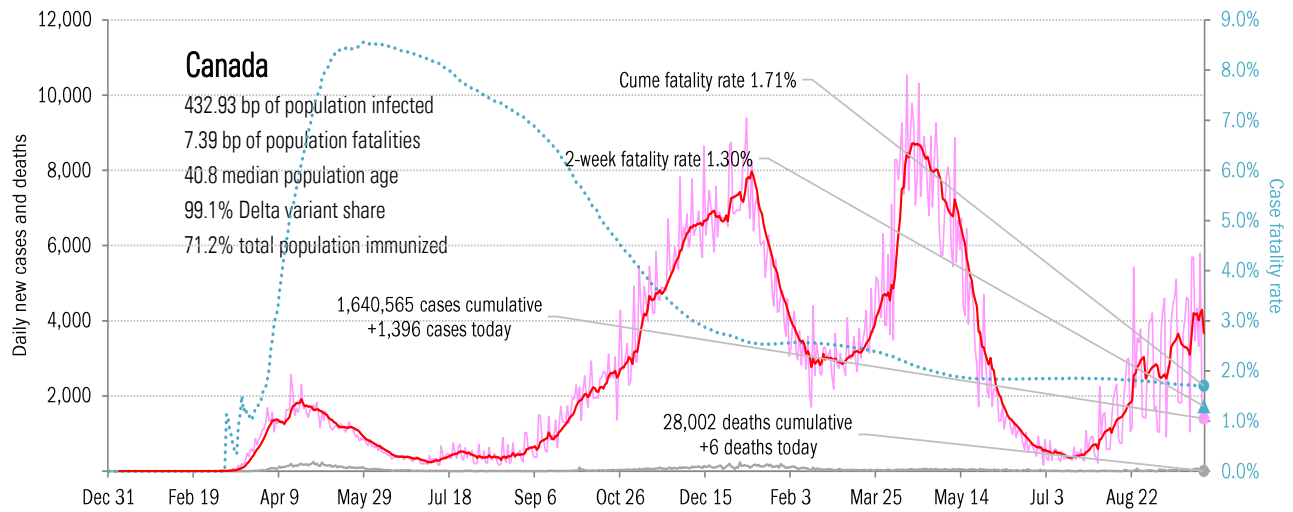
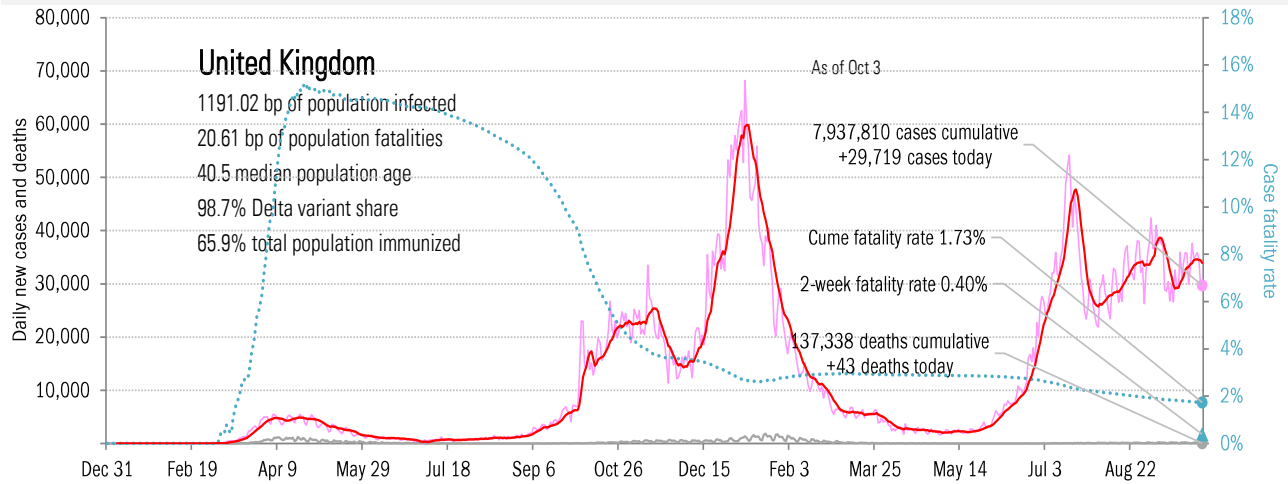
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

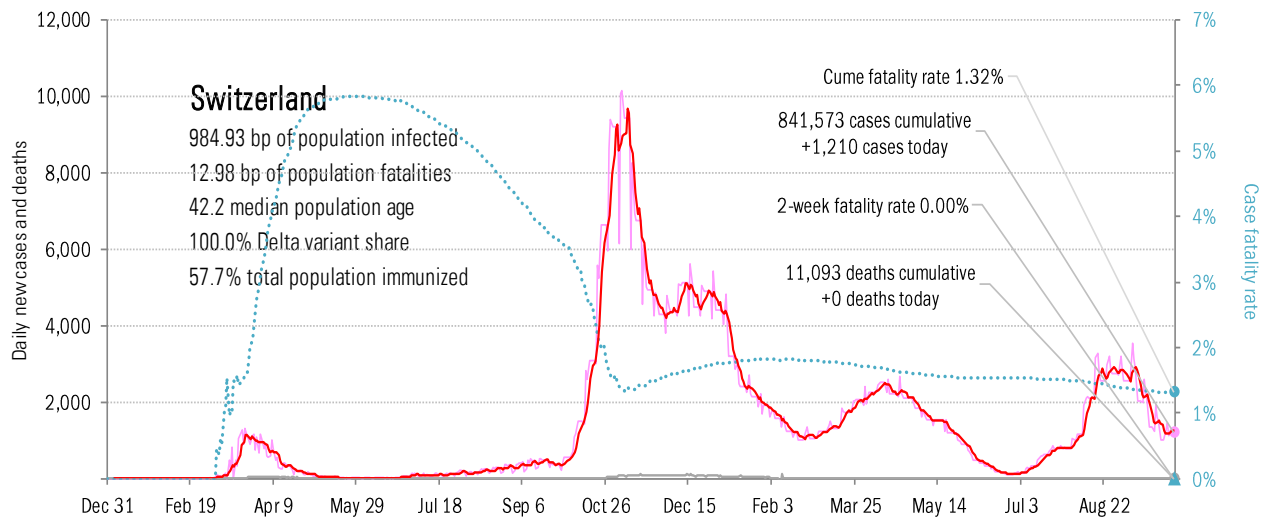
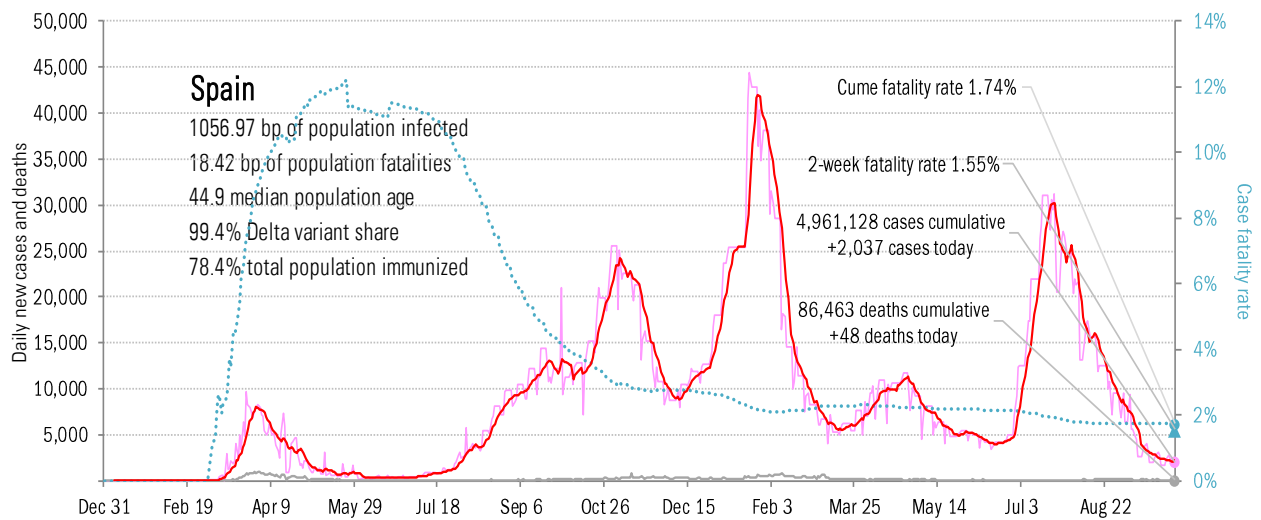
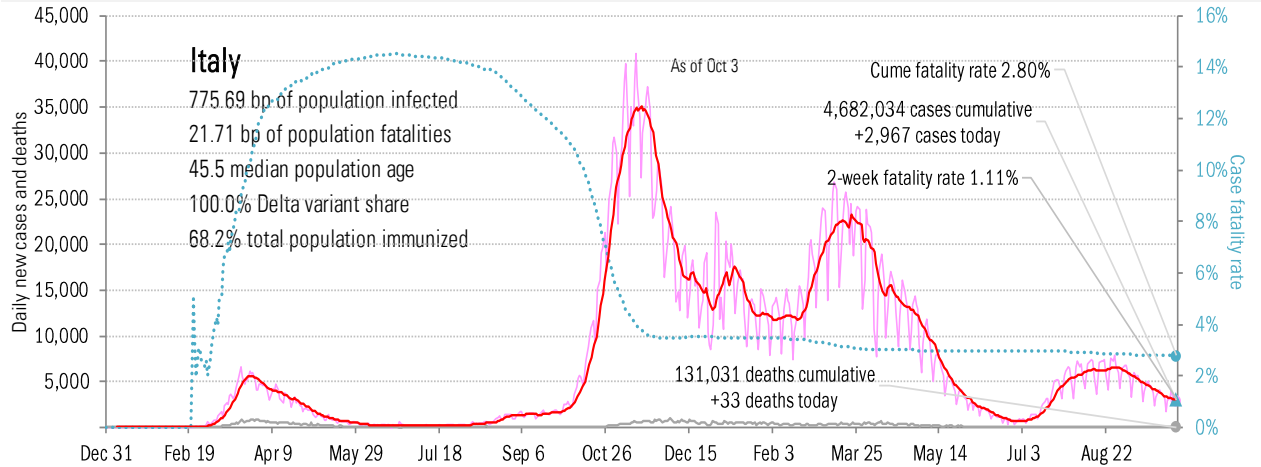


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

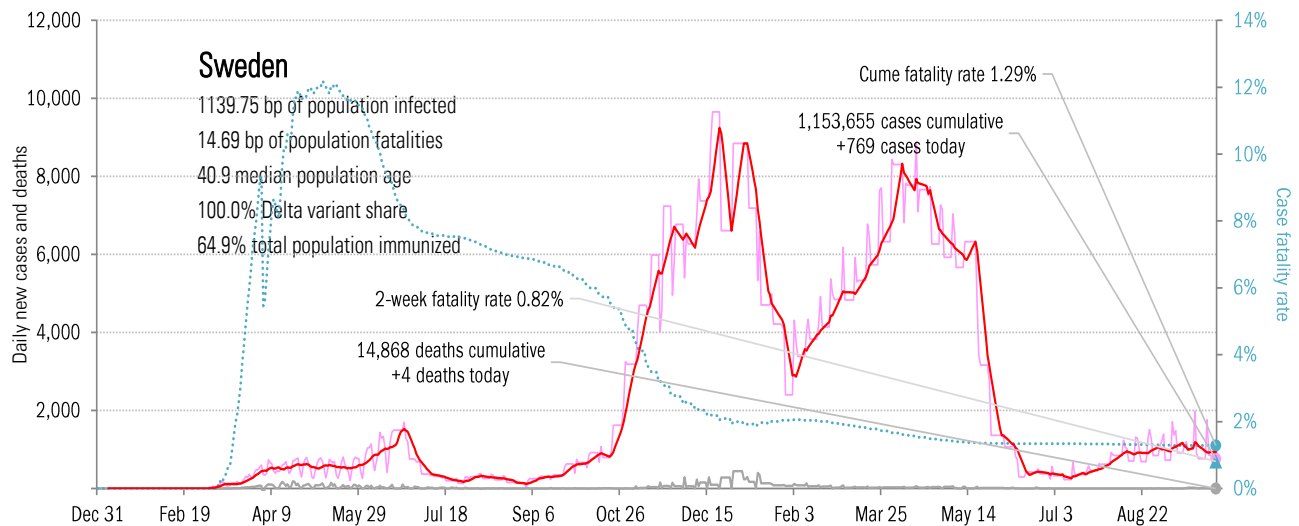
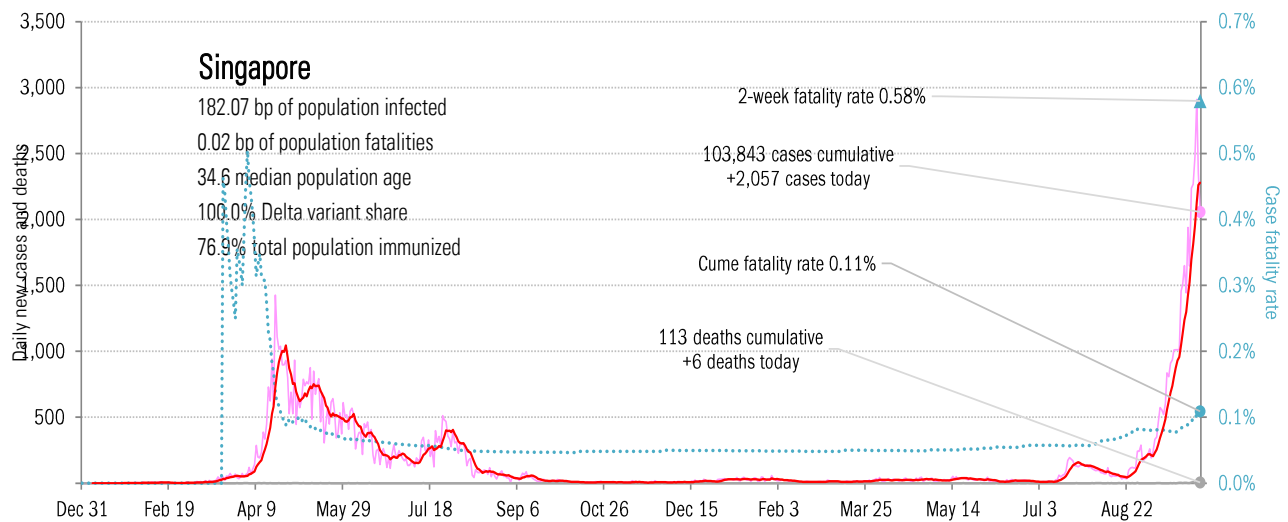
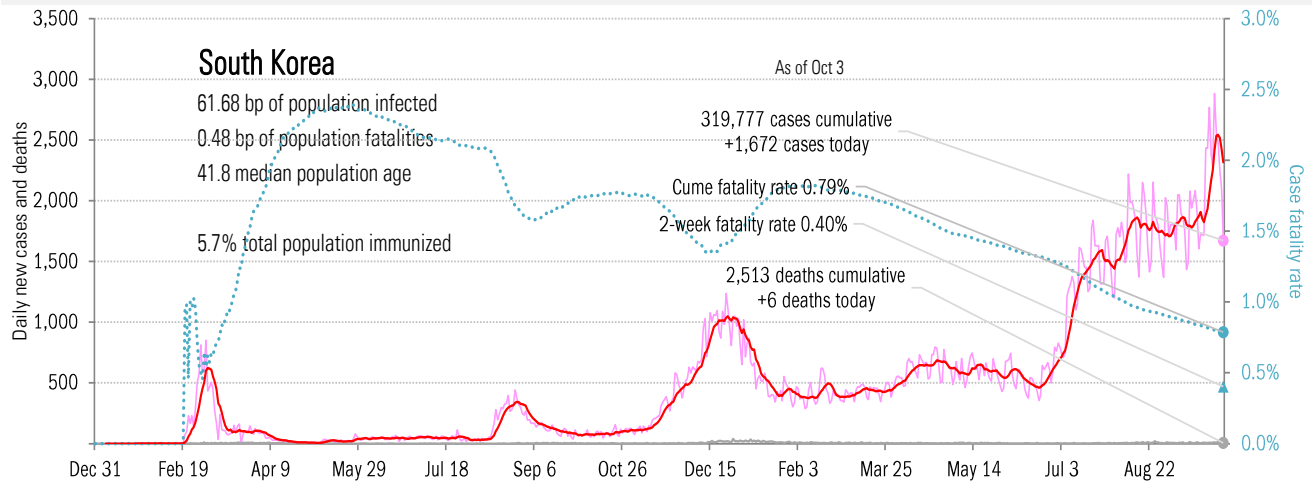
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

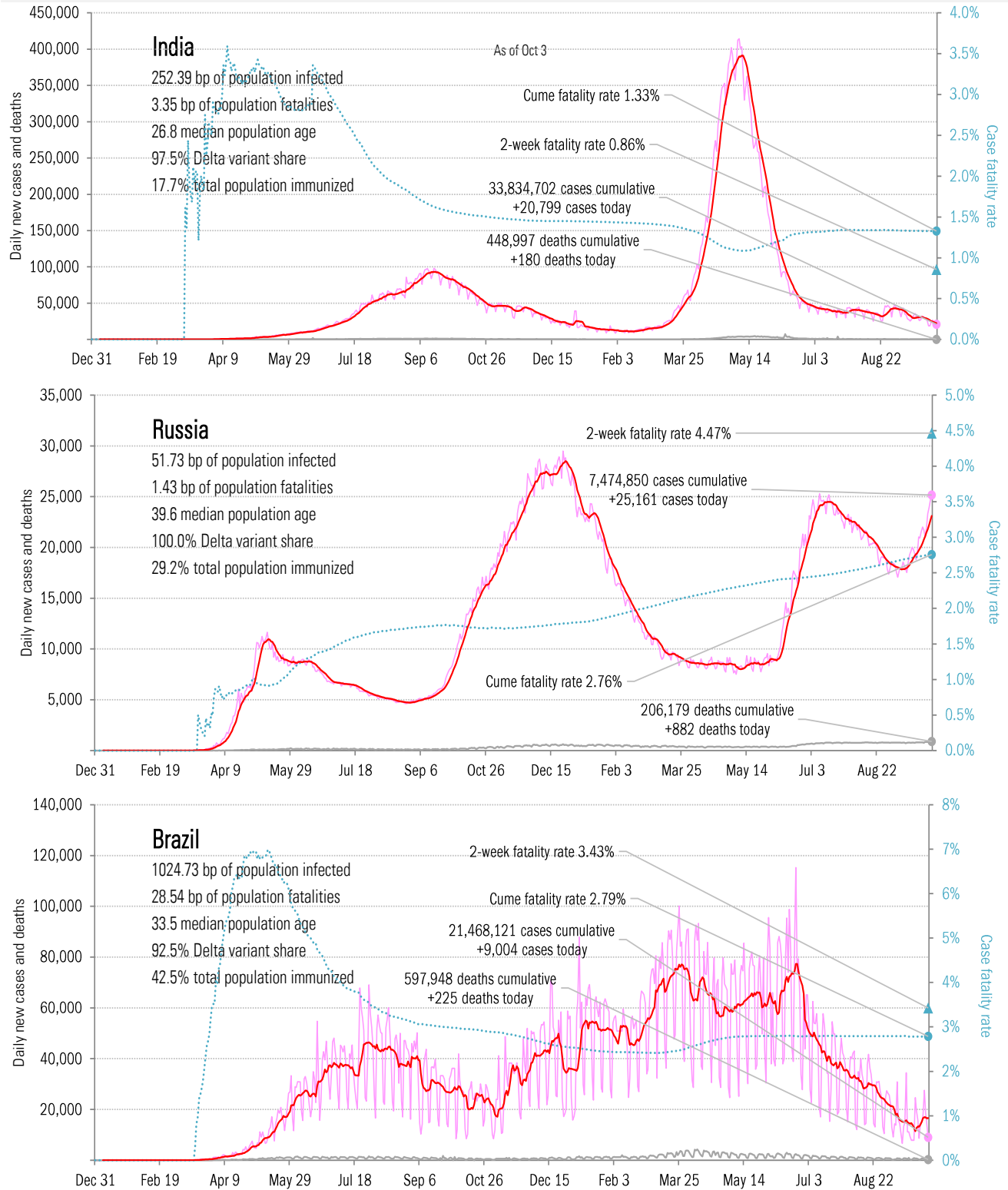
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

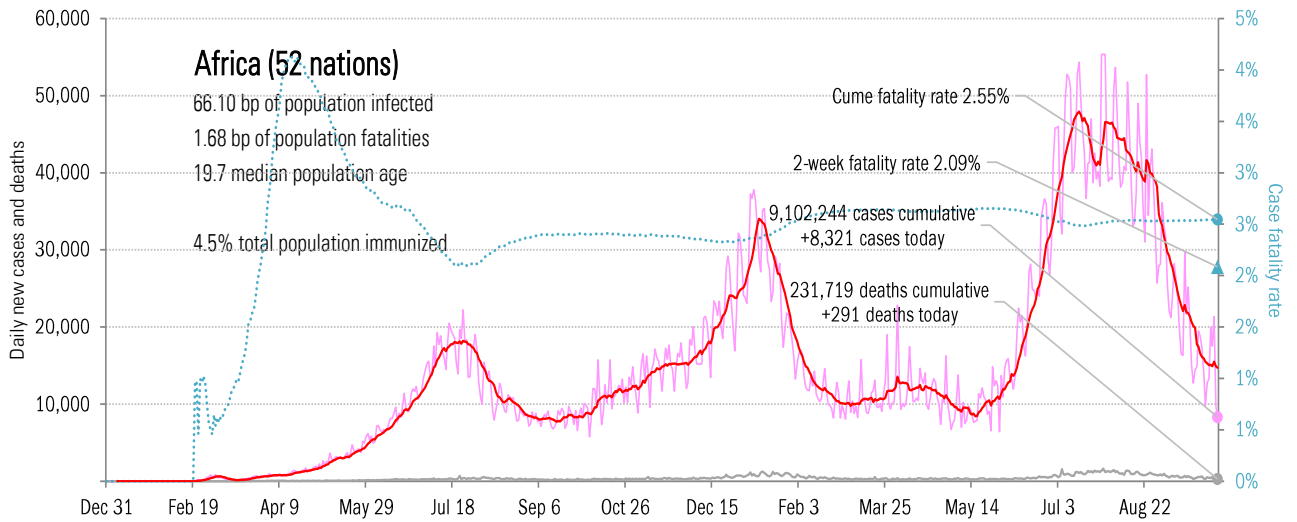
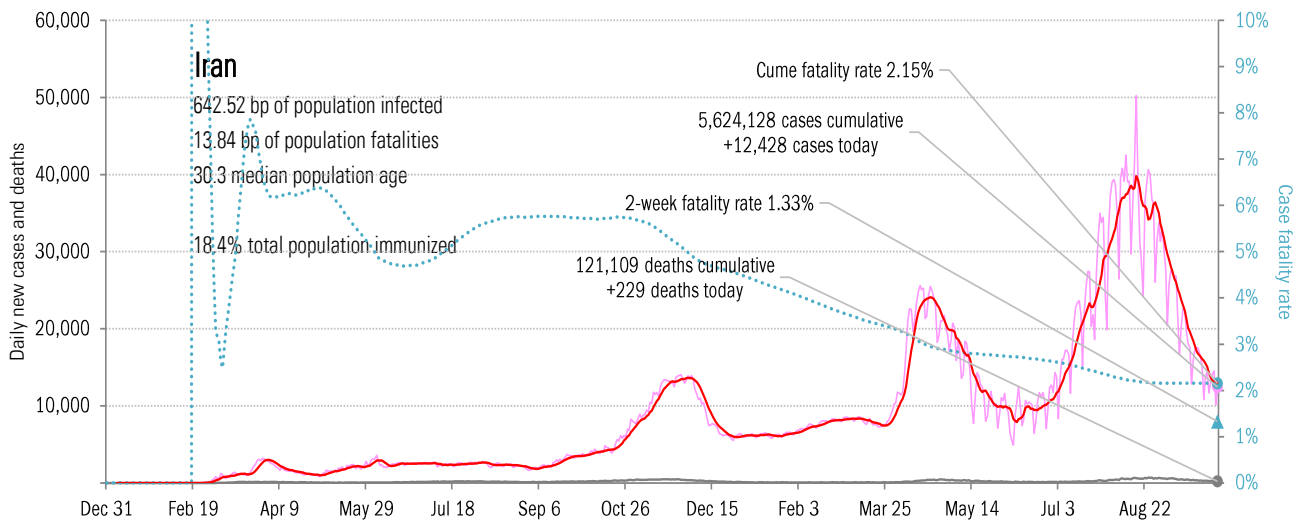
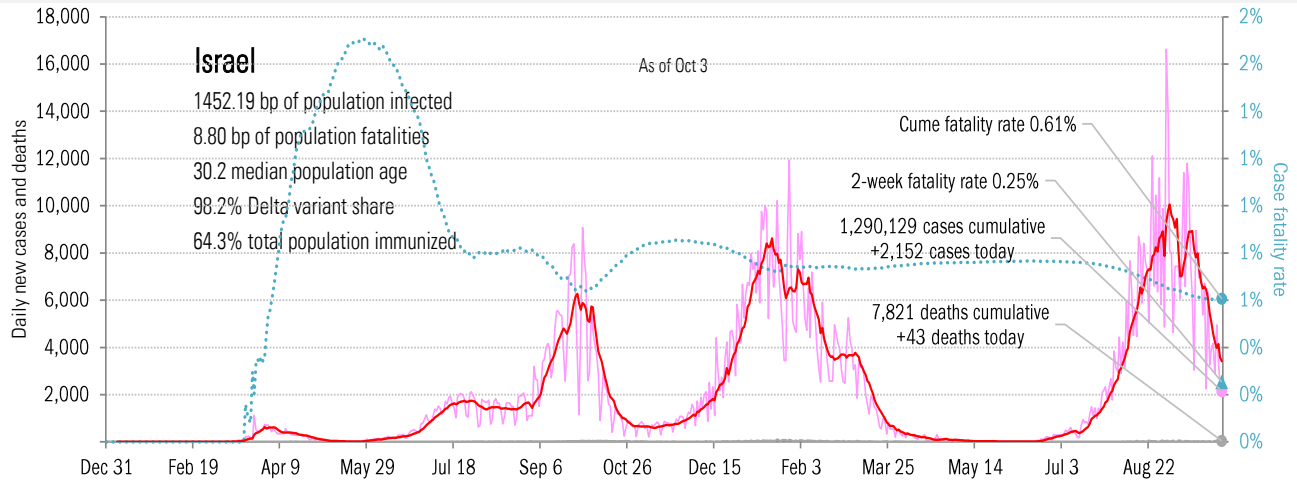
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

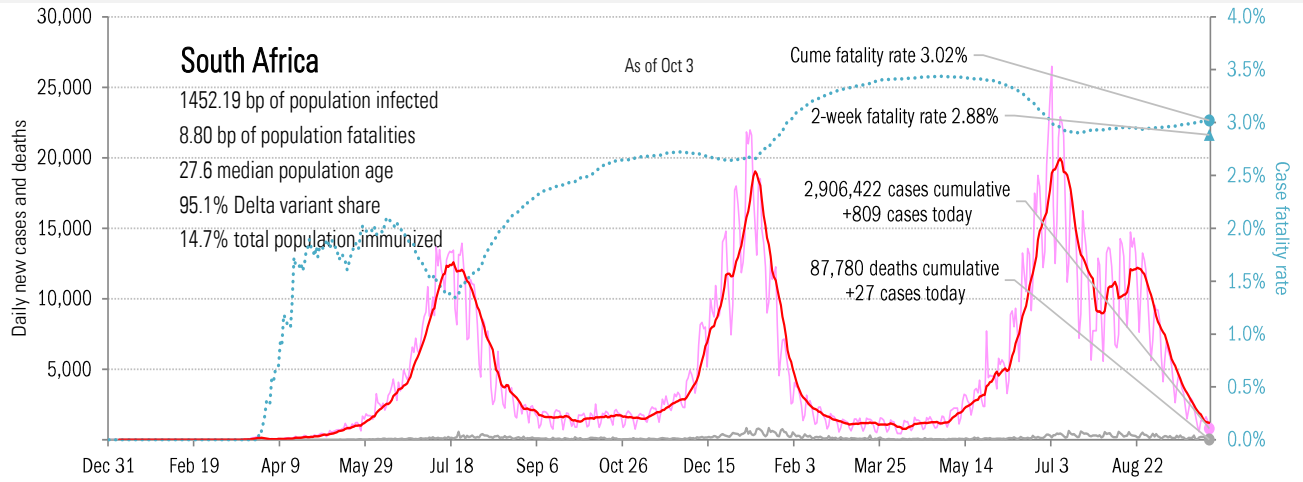
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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