

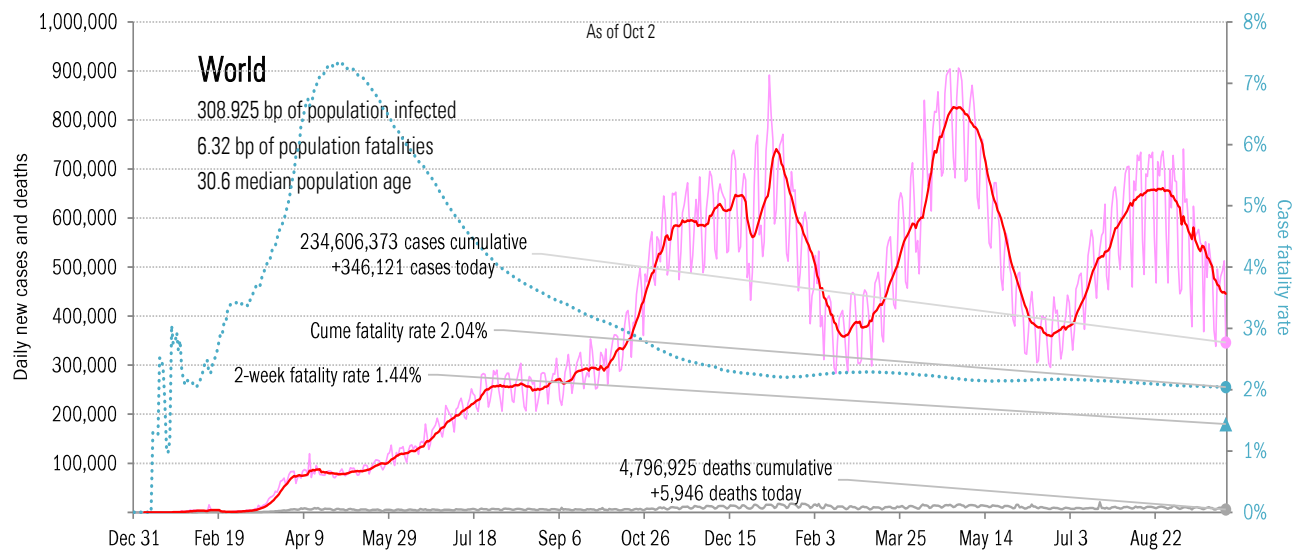
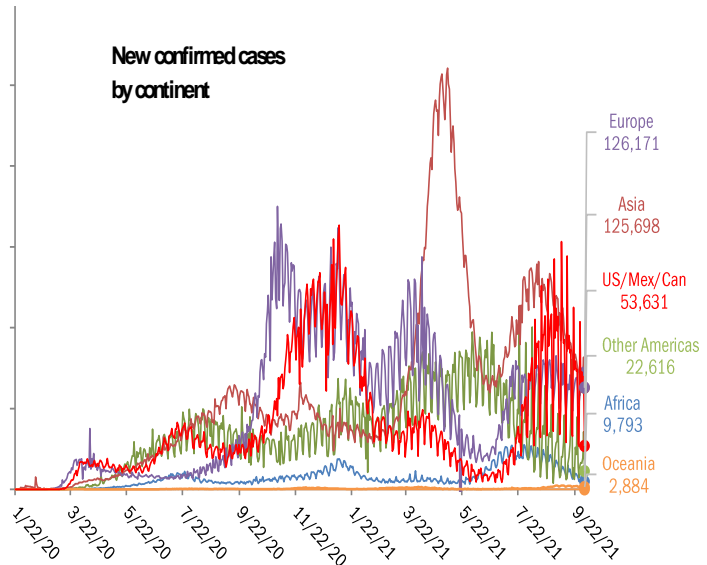
Data Insights: Covid-2019 Monitor

Sunday, October 3, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+44,534	United States	+893
United Kingdom	+29,520	Russia	+873
Turkey	+27,973	Mexico	+614
Russia	+24,632	Brazil	+468
India	+22,842	India	+244
Philippines	+14,686	Iran	+217
Brazil	+13,466	Ukraine	+216
Romania	+12,590	Turkey	+203
Ukraine	+12,396	Romania	+184
Thailand	+11,375	Vietnam	+164
+214,014		+4,076	
World	+346,121	World	+5,946
Top ten	62%	Top ten	69%



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

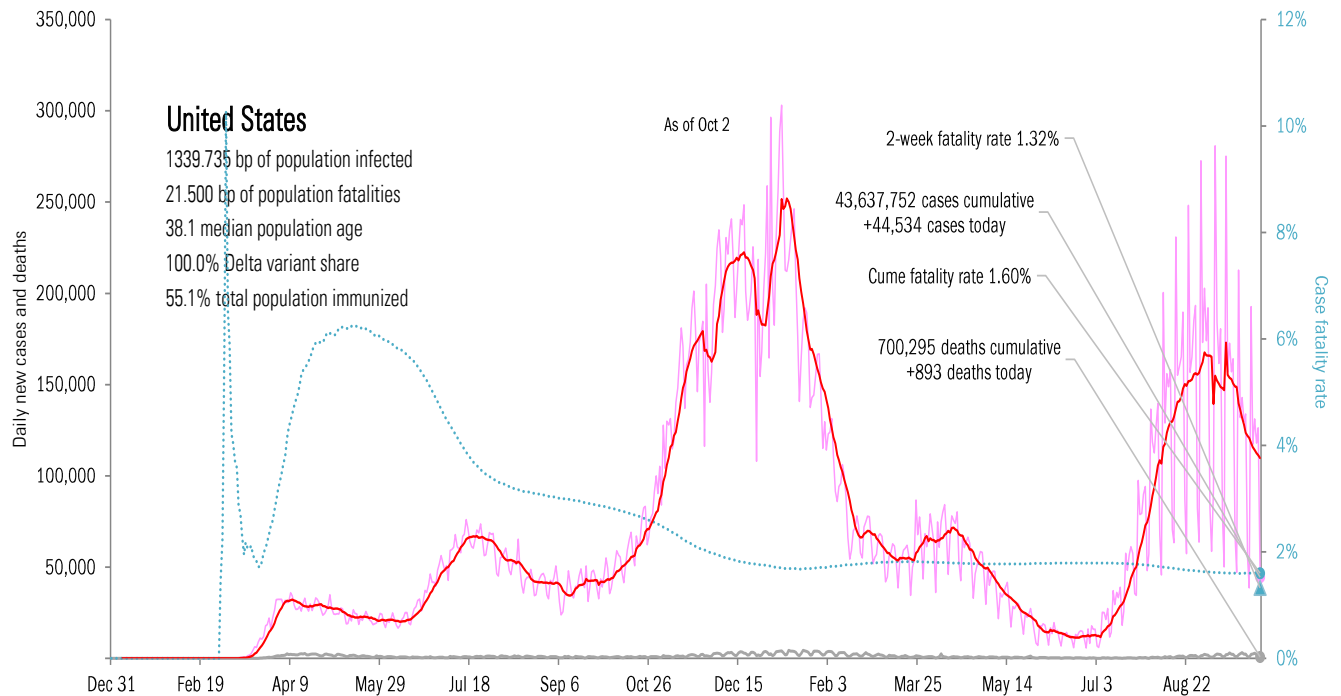
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
CH	+6,094		TX	+256		GA	+69		CA	4,731,043		CA	69,242		TX	359,848		MA	87%	GA	94%
TX	+5,869		FL	+246		CH	+68		TX	4,083,305		TX	65,785		FL	308,918		GA	87%	AL	93%
FL	+5,328		AZ	+95		KY	+55		FL	3,600,025		NY	55,434		CA	298,080		RI	87%	KY	92%
NY	+3,604		AL	+76		PA	+30		NY	2,436,048		FL	54,662		NY	156,305		MD	86%	TX	92%
IA	+3,522		PA	+49		NJ	+28		IL	1,630,864		PA	29,486		GA	152,640		PA	84%	ID	89%
AZ	+2,942		ID	+33		ID	+25		GA	1,582,063		NJ	27,465		CH	112,864		MO	83%	AK	88%
PA	+2,887		NJ	+22		WV	+20		PA	1,438,179		IL	27,450		PA	107,200		MN	82%	AR	88%
NJ	+1,935		DE	+18		IN	+19		CH	1,426,300		GA	26,242		KY	106,936		SC	82%	OK	87%
CA	+1,890		NY	+18		NE	+13		NC	1,400,217		MI	22,439		IL	100,228		CT	82%	NC	87%
MO	+1,692		CA	+17		MD	+11		TN	1,231,820		CH	22,273		MI	83,832		NY	81%	NV	86%
+35,763			+830			+338			23,559,864			400,478			1,786,851						
All states	+44,534		+893			-382			All states	43,637,752		700,295			3,176,690			All states	70%	67%	
Top ten	80%		93%			-88%			Top ten	54%		57%			56%			Median	78%	80%	

Some states not reporting

Five most improved US states

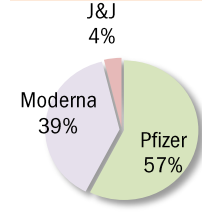
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-9,355	CH	-328	CO	-54	DE	+30 bp
FL	-6,561	GA	-158	UT	-36	GA	+30 bp
CA	-6,403	SC	-98	MA	-20	KY	+30 bp
NC	-4,963	MI	-84	MO	-19	MI	+20 bp
KY	-4,130	NC	-81	CA	-18	AK	+10 bp



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	405,842,261		+0.954 million		US	55.1%	63.9%	
	One dose	% Pop	Immune	% pop	New immune today	UK	65.9%	71.7%
Total population	220,108,625	66%	189,801,407	57%	+0.294 million	France	65.7%	74.4%
Age 12 to 17	13,710,542	58%	11,132,397	47%	+0.034 million	Spain	78.4%	80.7%
Age 18 to 64	152,222,343	75%	130,566,792	64%	+0.221 million	Germany	64.1%	67.5%
Age 65 and over	53,099,675	97%	47,223,173	86%	+0.039 million	Italy	68.2%	75.1%
						Australia	45.3%	65.7%
						Israel	64.3%	69.7%
						Canada	71.1%	77.0%
						Japan	60.1%	70.7%
						Africa	4.4%	6.8%
						India	17.5%	47.2%
						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 **86 days** by Dec 27, 2021
 68.8% of population >18 immunized
 14.9% previously tested positive
83.7% vs 60% adult herd immunity

As of Oct 2

Global data differs from sources, timing

AK
57.5%
50.8%

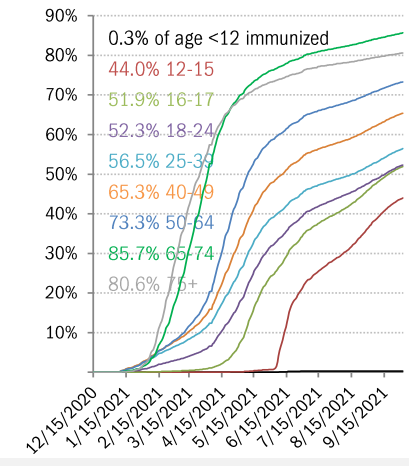
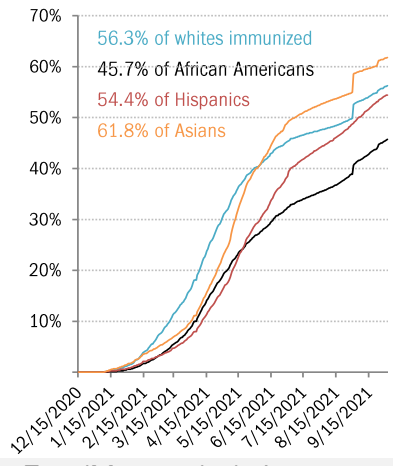
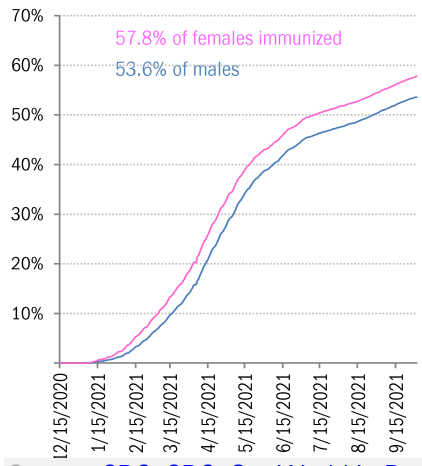
WI
61.1%
56.6%

ME
74.3%
68.7%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
67.4%	47.2%	54.9%	51.2%	63.6%	68.5%	57.3%	71.5%	77.8%	70.2%	
61.0%	41.8%	48.6%	44.4%	58.3%	53.6%	52.5%	63.9%	69.6%	61.6%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
66.7%	60.9%	48.5%	59.4%	58.2%	52.3%	54.3%	72.8%	72.6%	77.6%	
60.9%	50.8%	41.6%	51.8%	54.1%	48.5%	50.3%	58.0%	64.4%	68.0%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
71.9%	59.1%	65.7%	59.5%	55.0%	61.0%	48.3%	68.6%	70.8%	76.4%	75.4%
59.1%	50.9%	59.5%	54.7%	48.0%	52.7%	40.5%	60.7%	64.3%	68.9%	68.4%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	59.4%	72.7%	60.0%	55.9%	52.8%	60.1%	55.4%	71.0%	66.6%	
	51.2%	63.4%	51.3%	45.8%	45.6%	50.0%	47.4%	60.3%	57.9%	
			OK	LA	MS	AL	GA			
			56.7%	51.9%	50.2%	52.8%	55.1%			
			47.8%	45.6%	43.6%	42.7%	45.7%			
			TX					FL		PR
			59.7%					67.1%		79.5%
			51.3%					57.4%		70.7%

HI
76.9%
58.1%

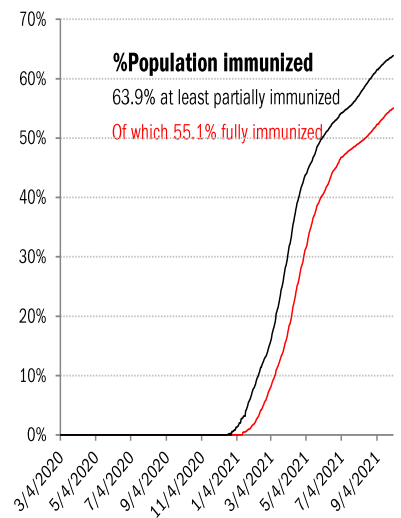
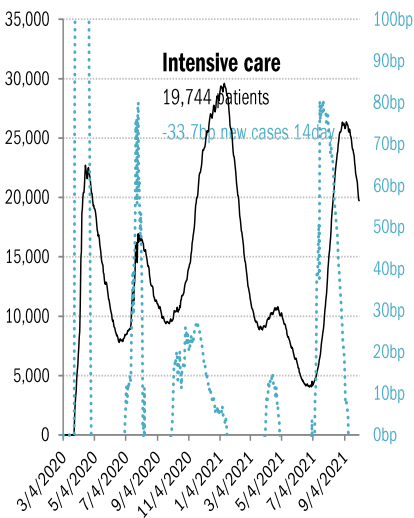
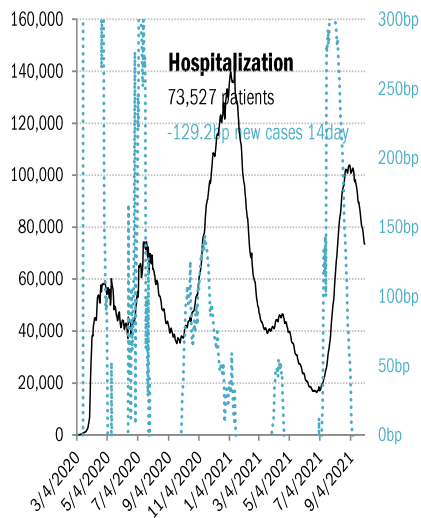
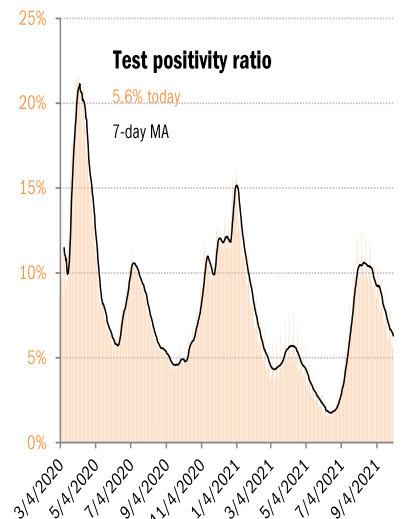
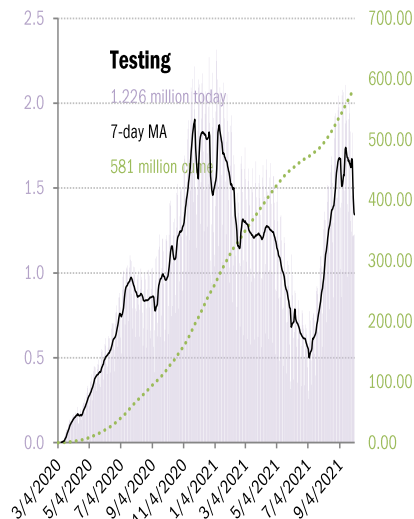
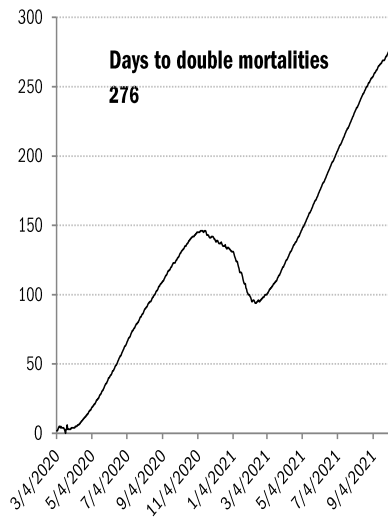
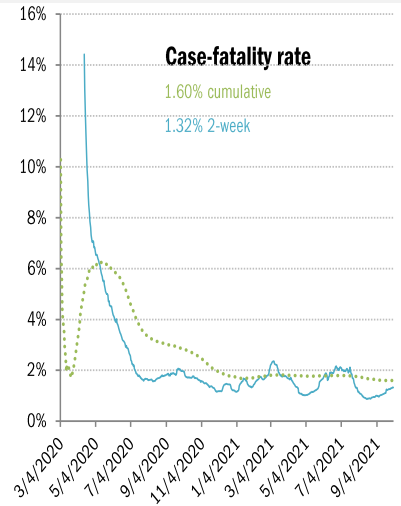
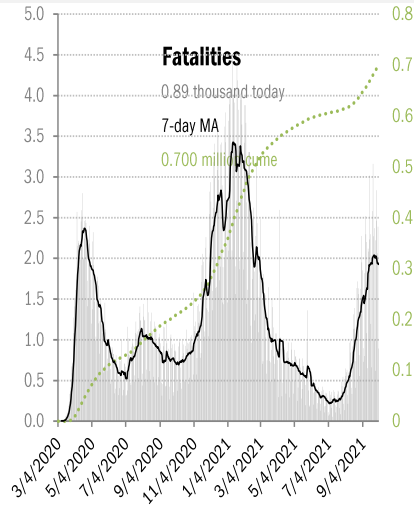
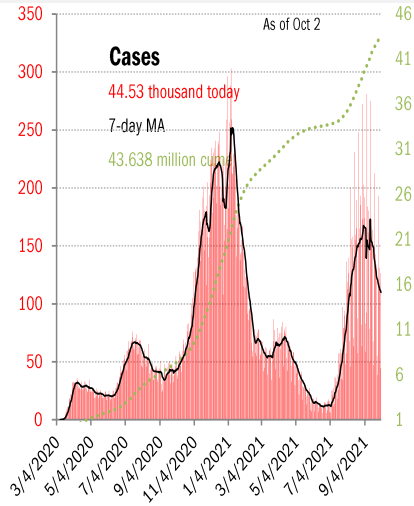
The demographics of US vaccination



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

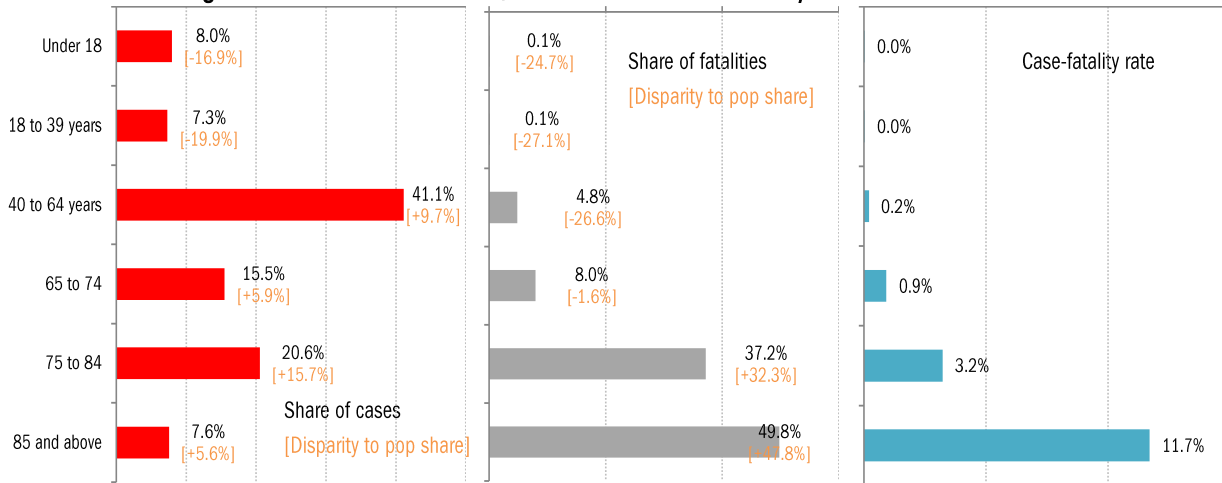
US deep-dive

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

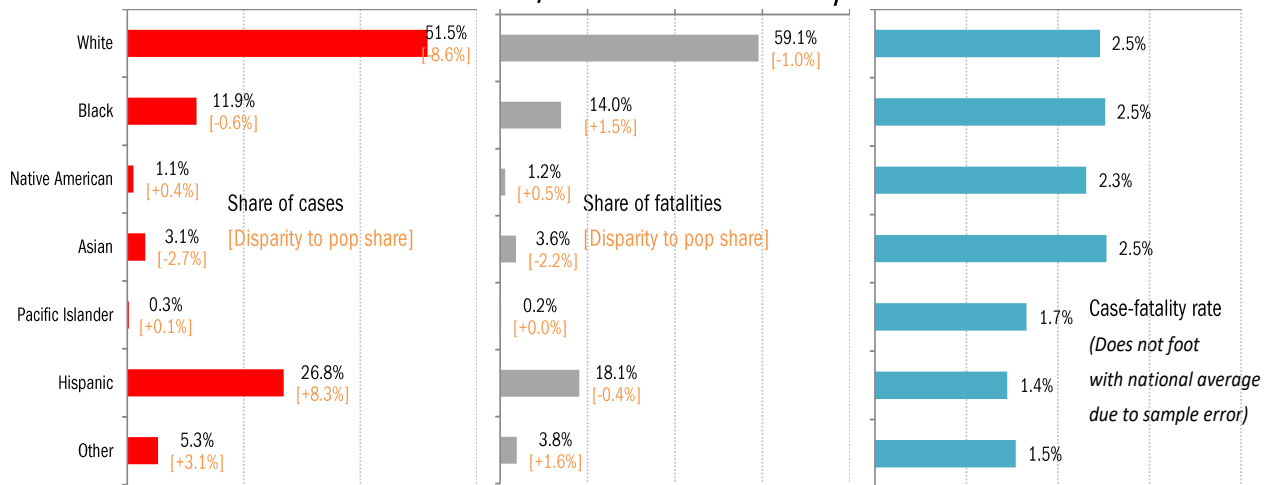


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

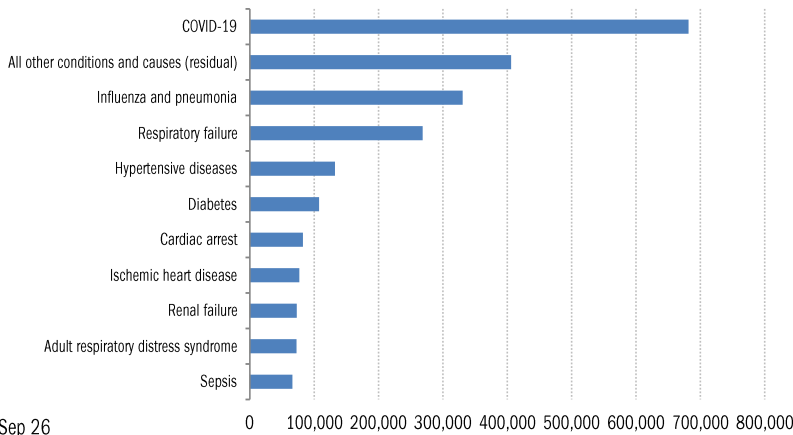


Racial distribution of US cases, fatalities and case-fatality rates Cumulative



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

[BioNTech chief predicts need for updated Covid vaccines next year](#)

Erika Solomon and Nikou Asgari
Financial Times
October 2, 2021

[Nosocomial outbreak caused by the SARS-CoV-2 Delta variant in a highly vaccinated population, Israel, July 2021](#)

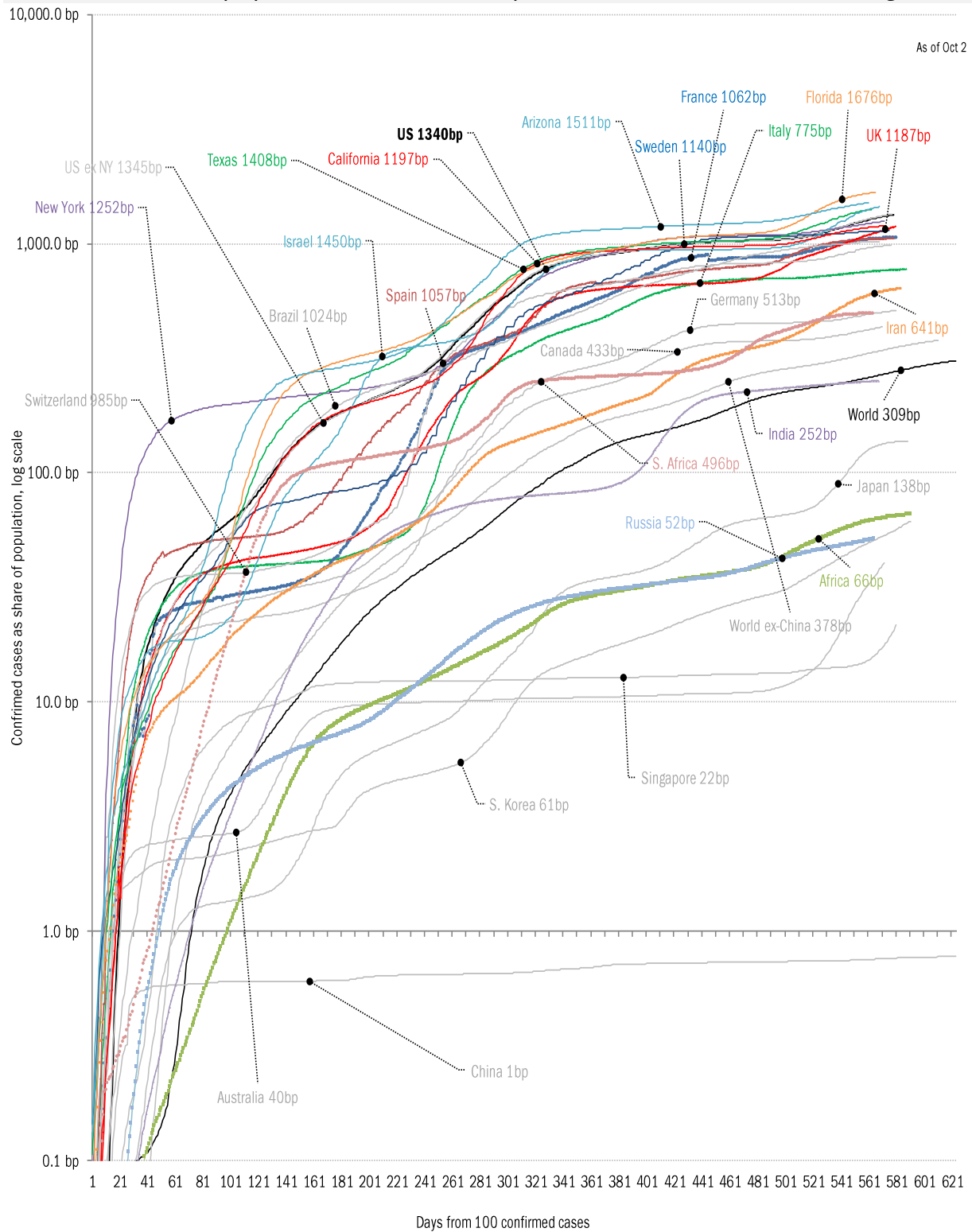
Pnina Shitrit et al.
Eurosurveillance
September 30, 2021

Meme of the day

**I can't wait until the
5th wave when the
people with 4 shots
are blaming it on the
people with 3 shots.**

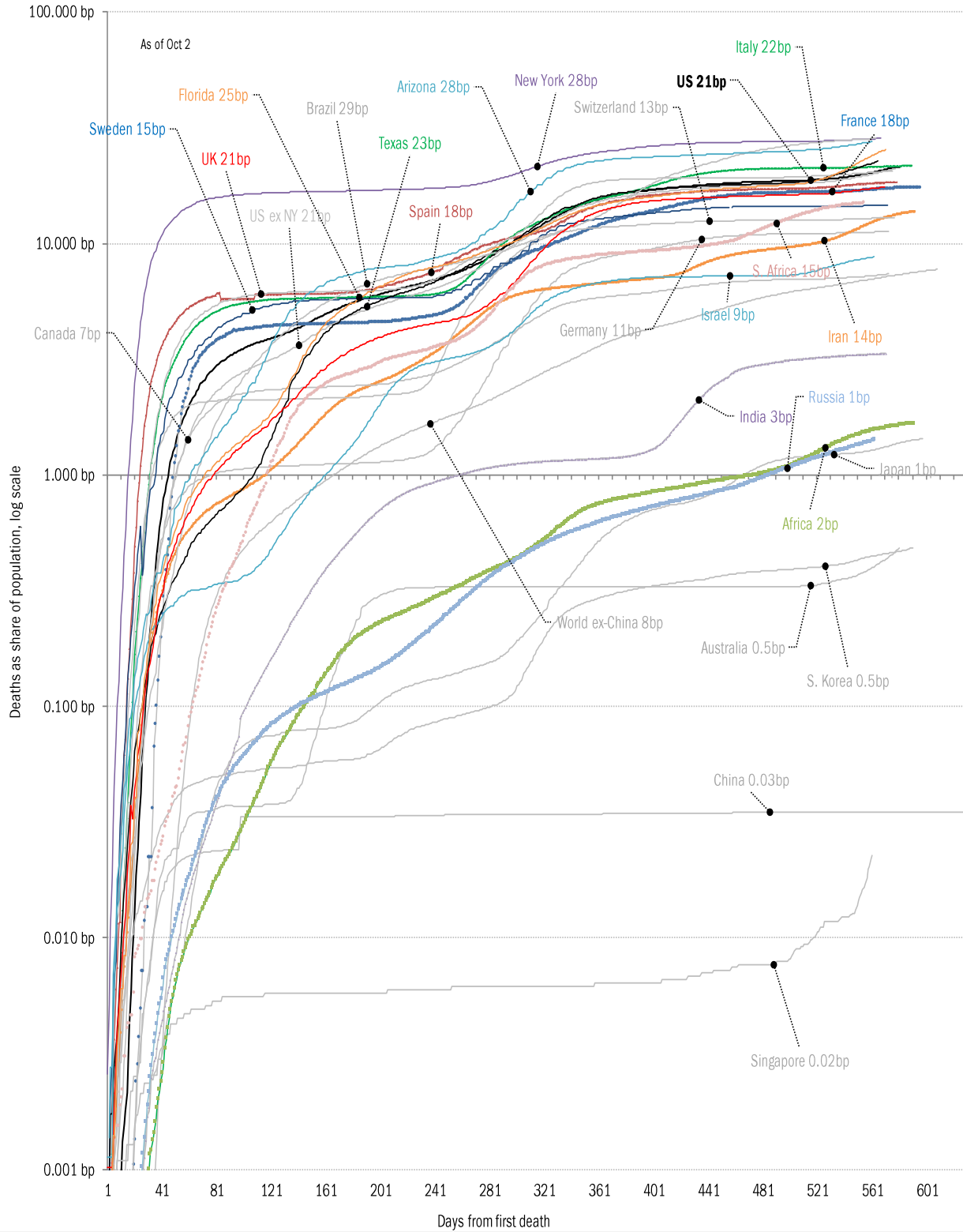
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

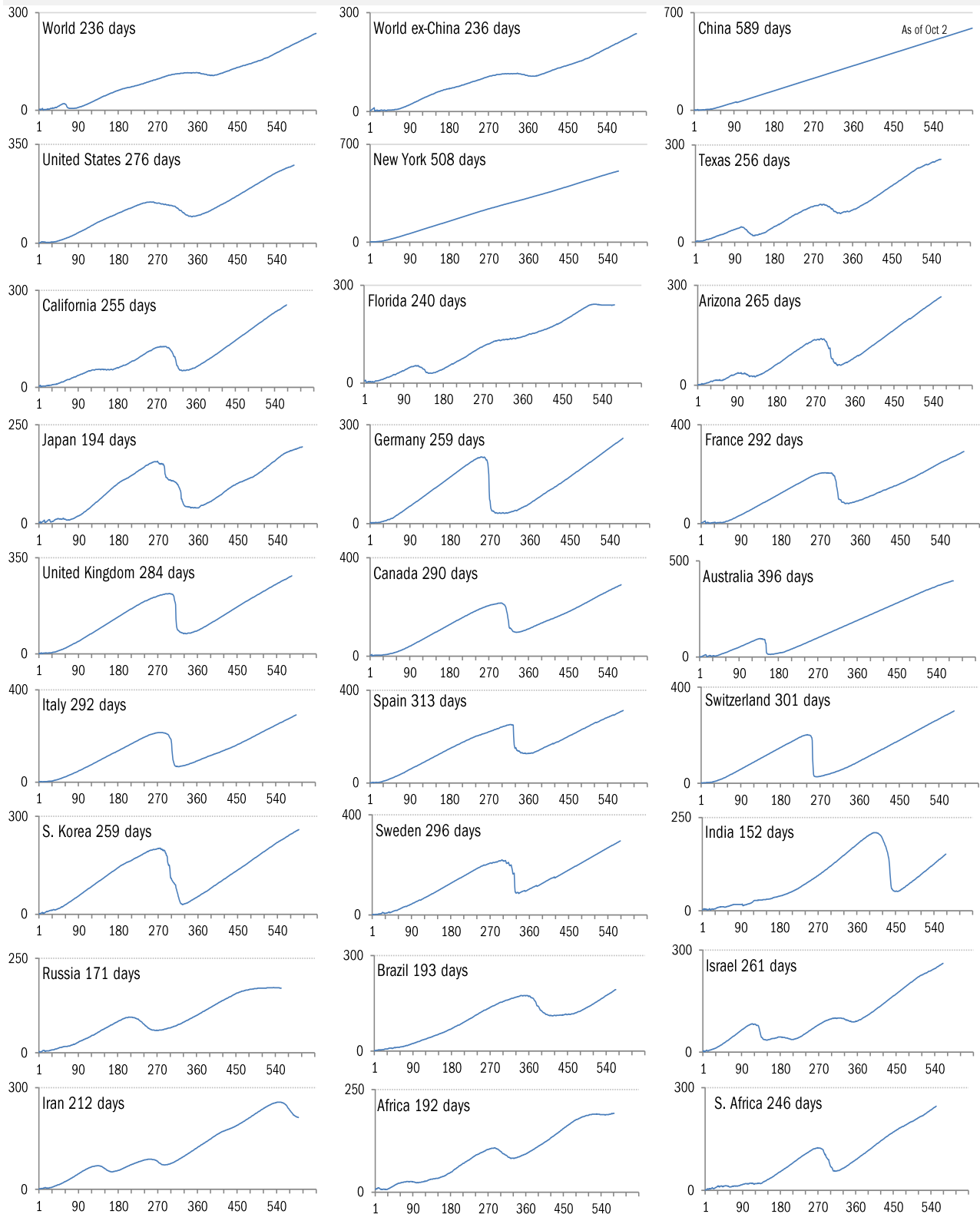


Source: [Johns Hopkins](#), TrendMacro calculations

"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

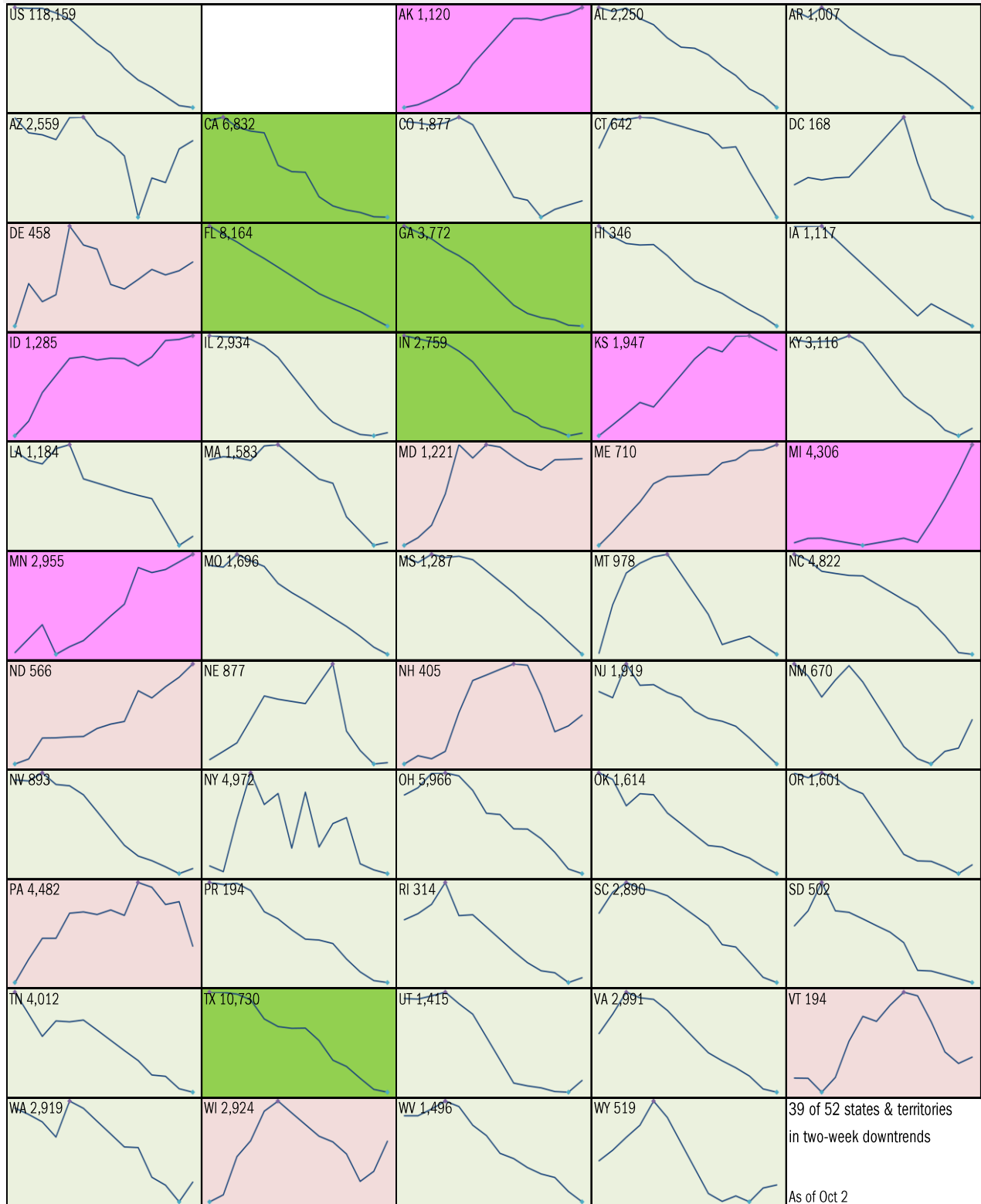


Source: [Johns Hopkins](#), TrendMacro calculations

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

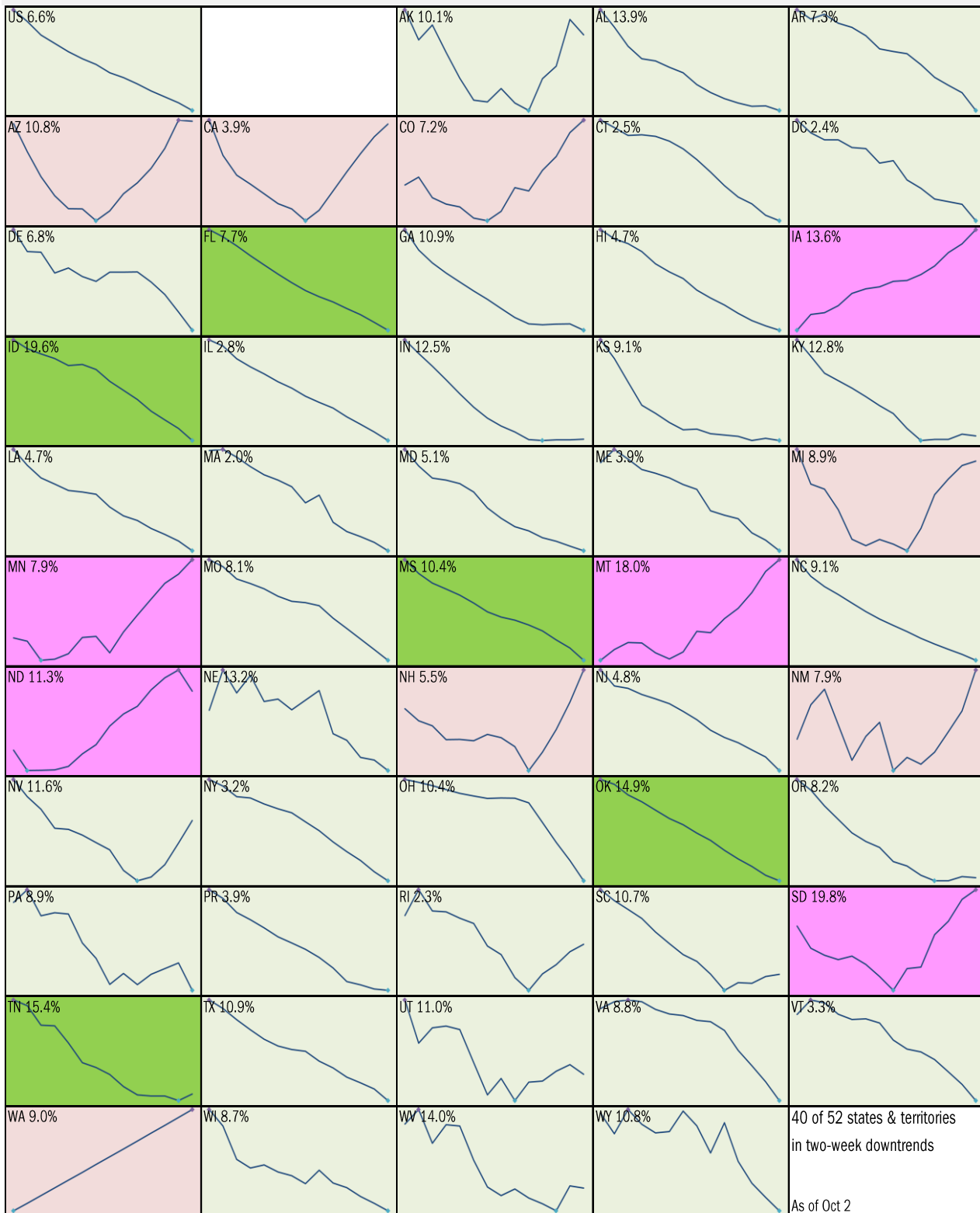


Source: [Johns Hopkins](#), TrendMacro calculations

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

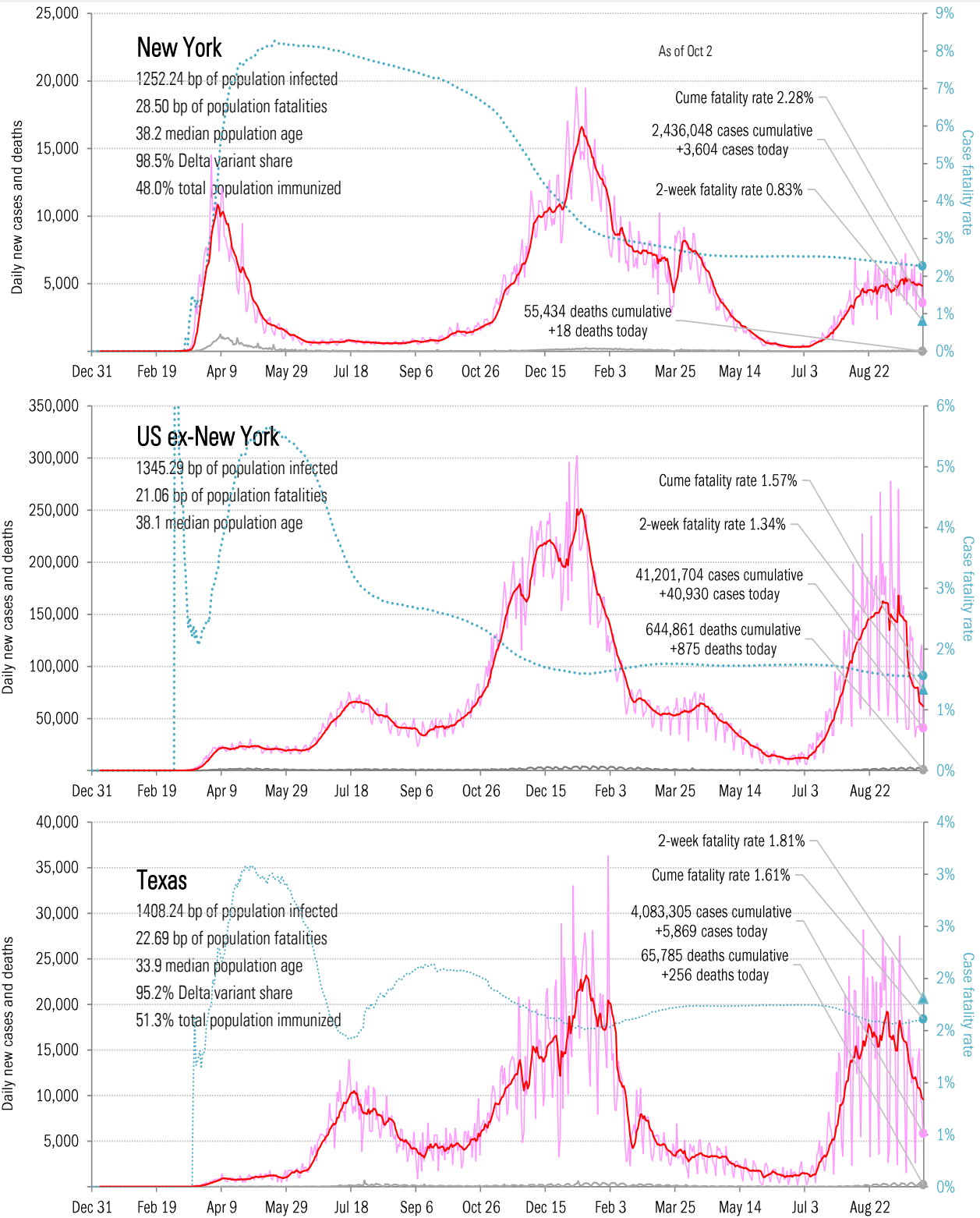
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

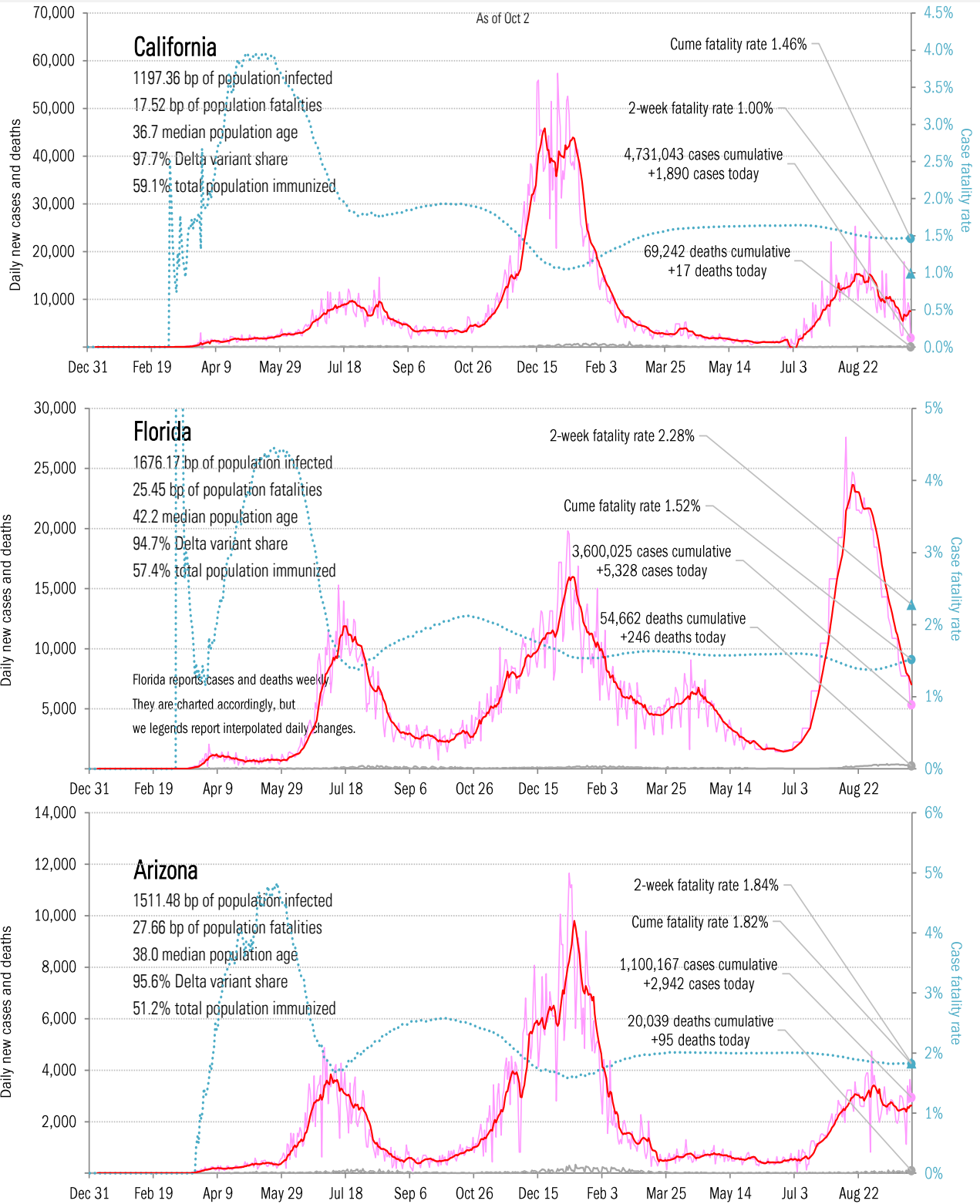
Cases: 7-day average and daily Deaths: Daily



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

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

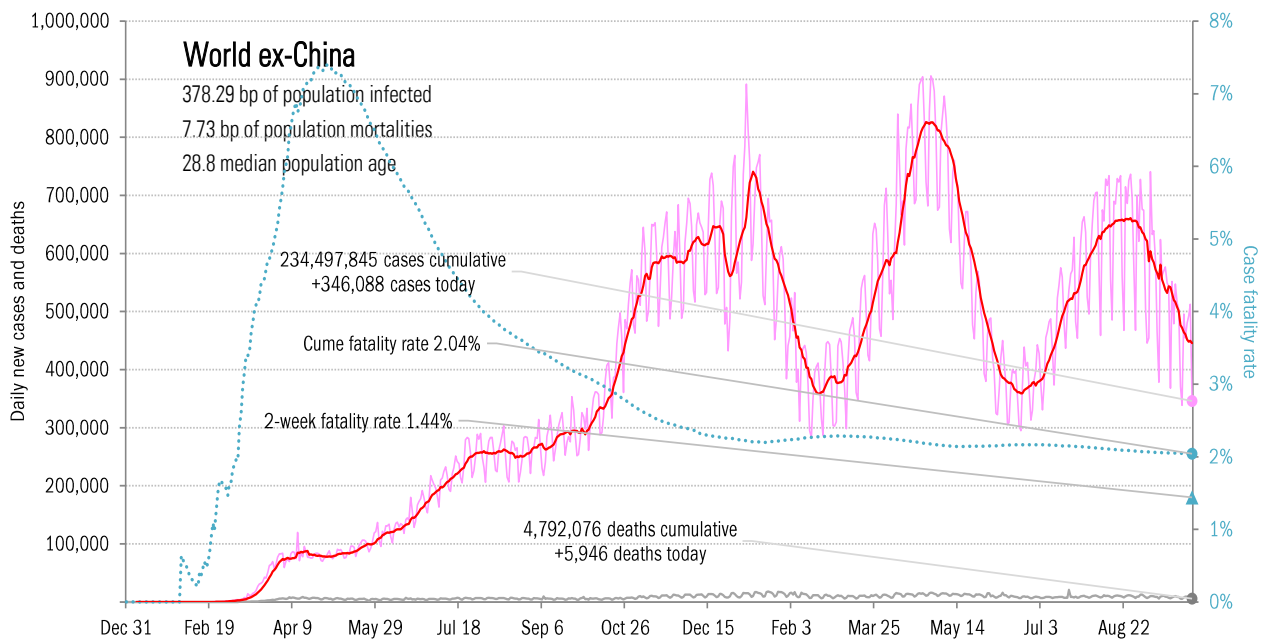
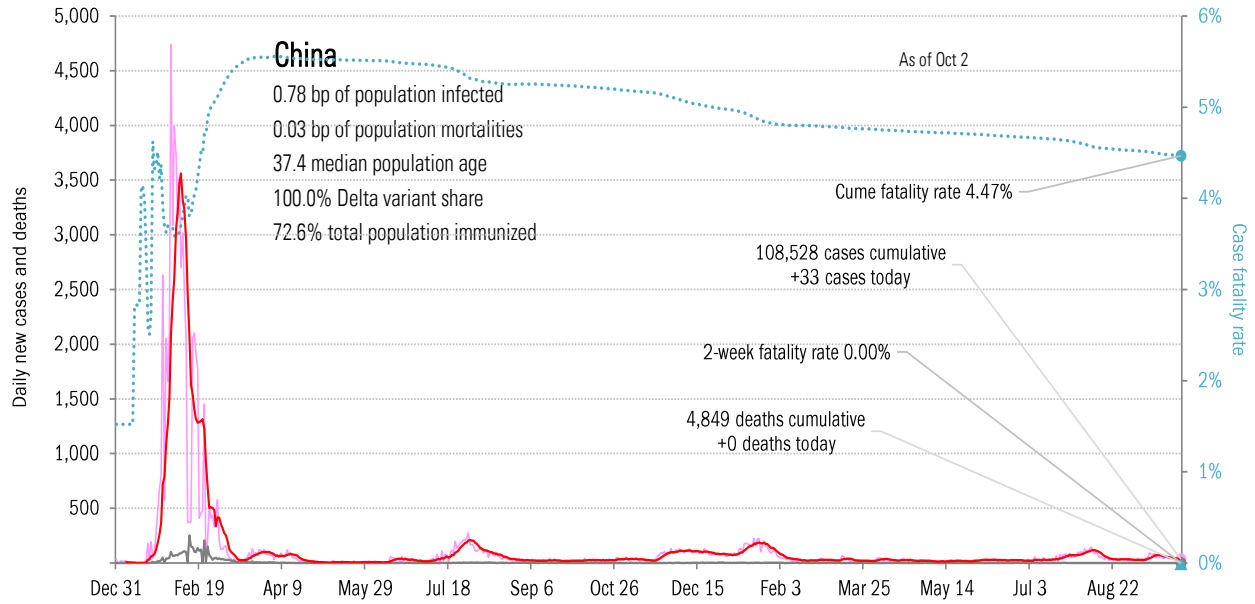
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

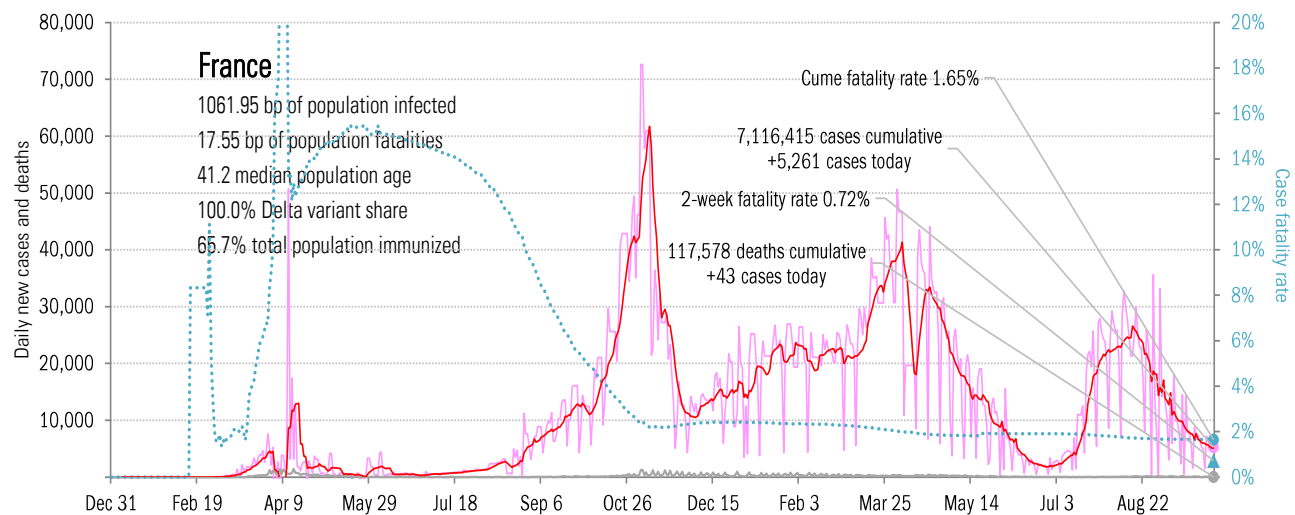
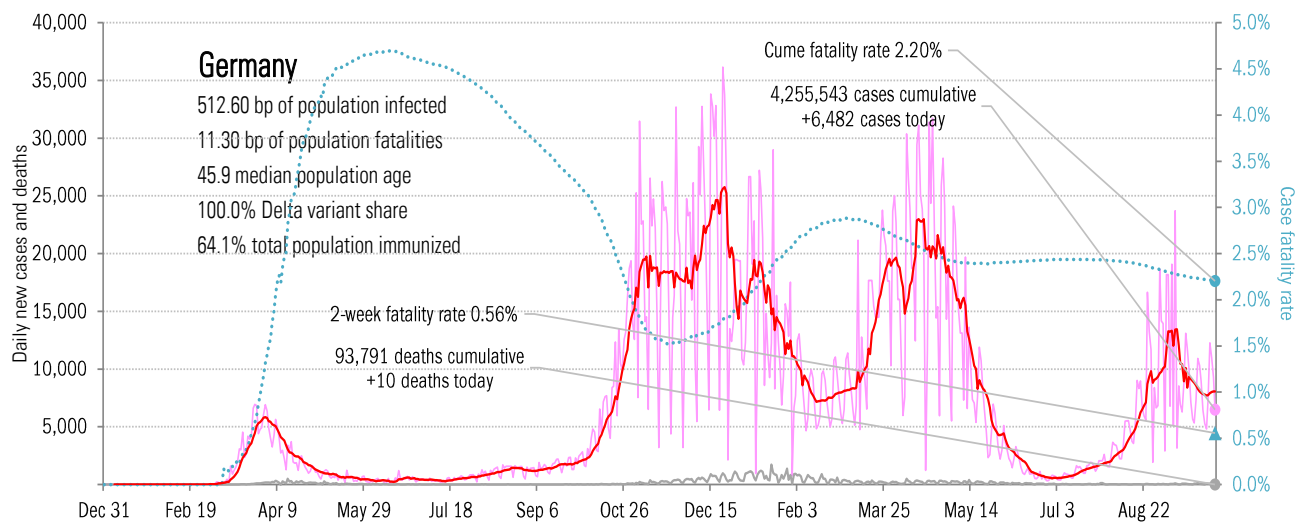
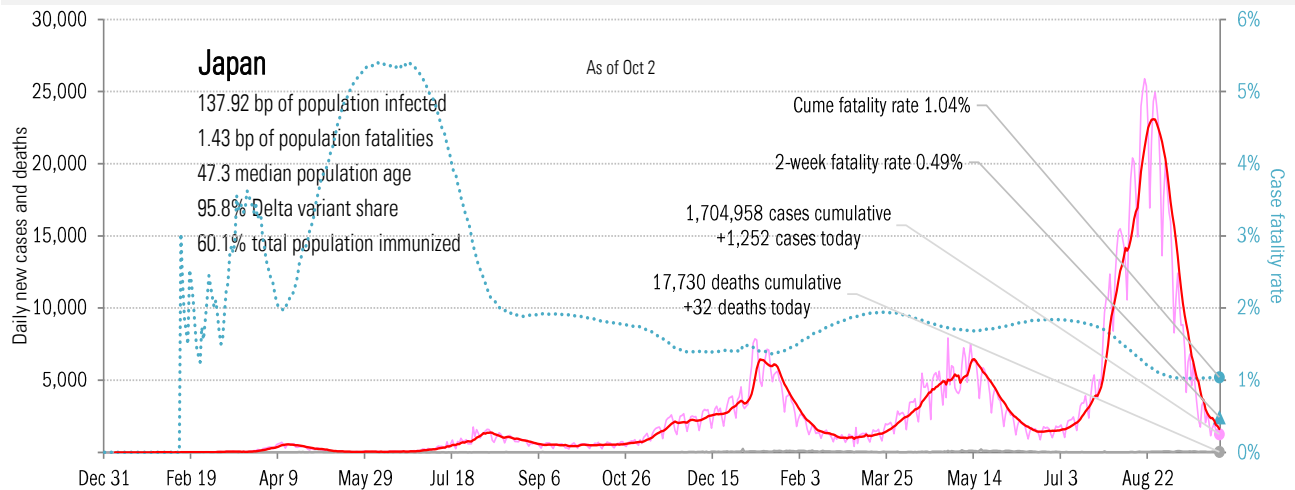
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

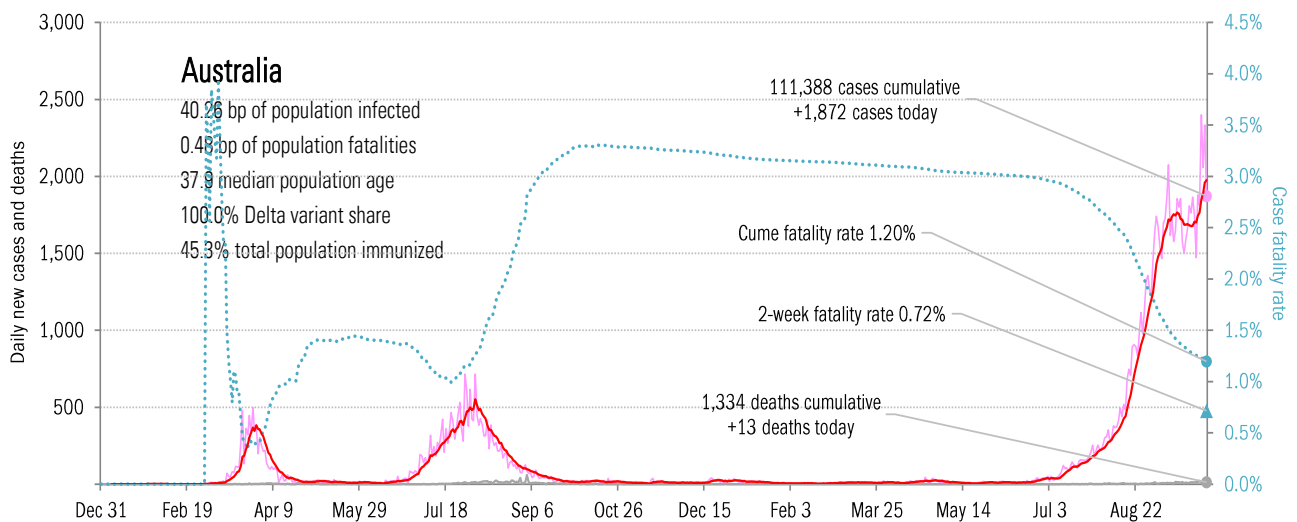
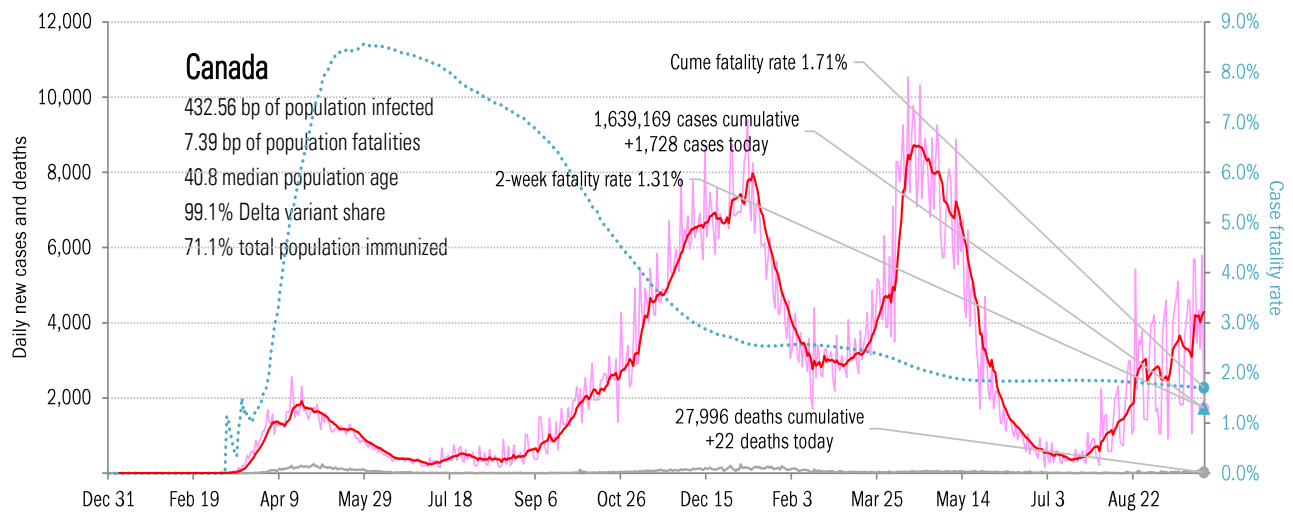
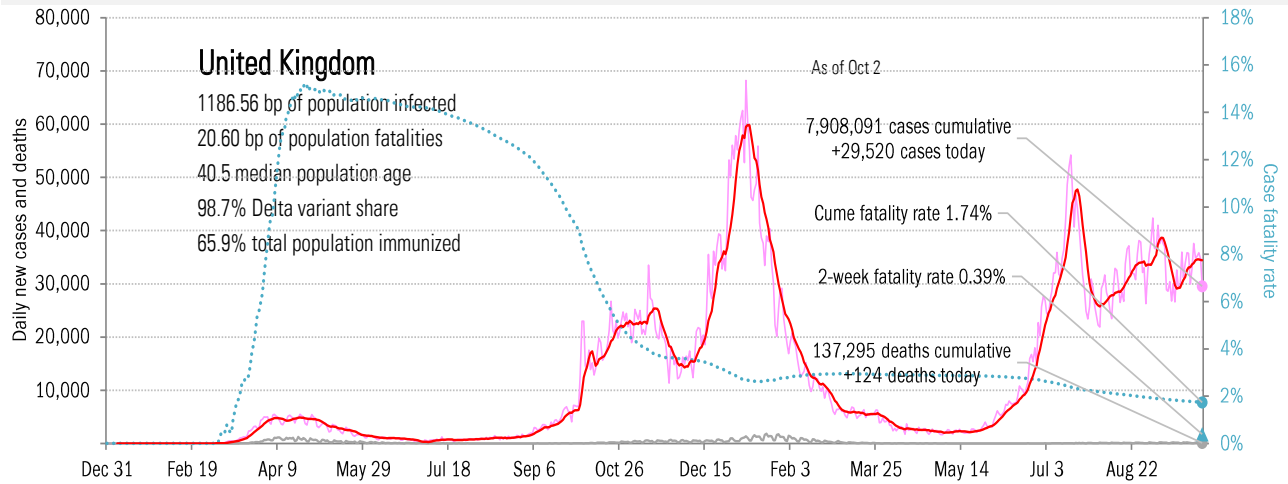
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

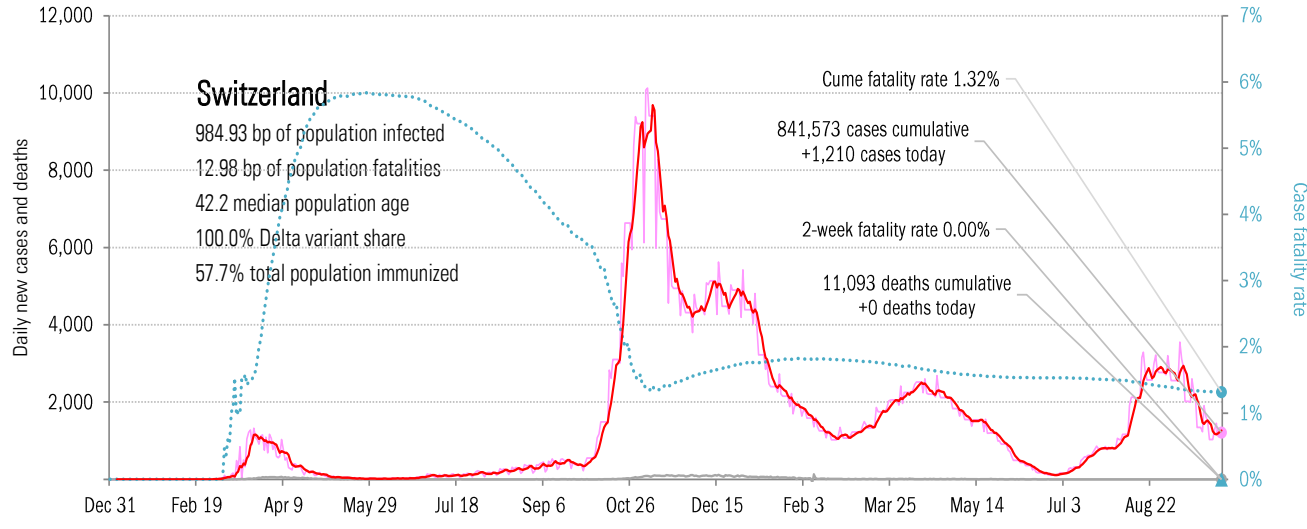
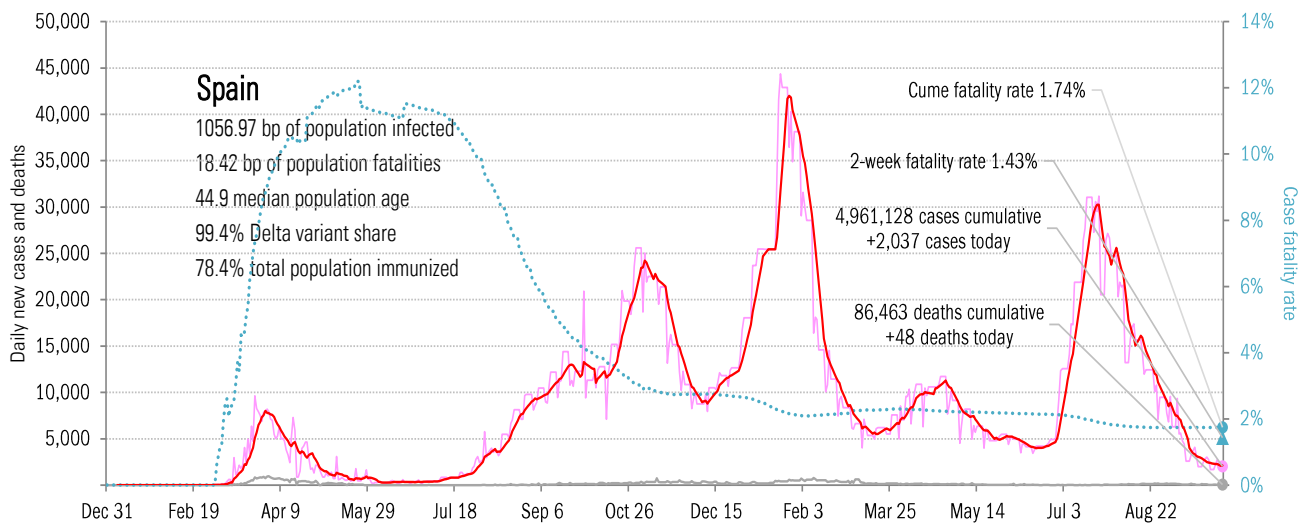
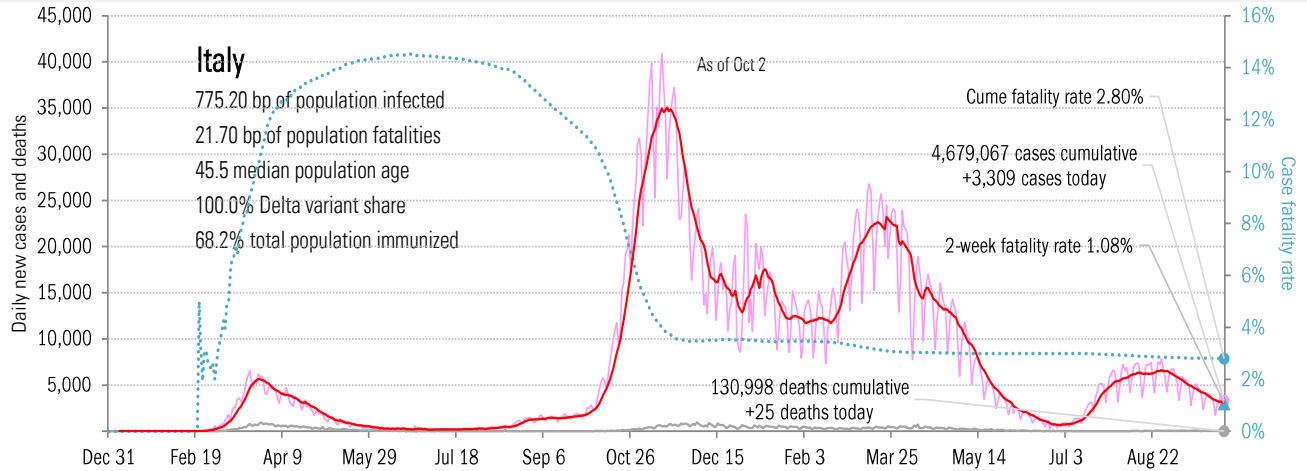
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

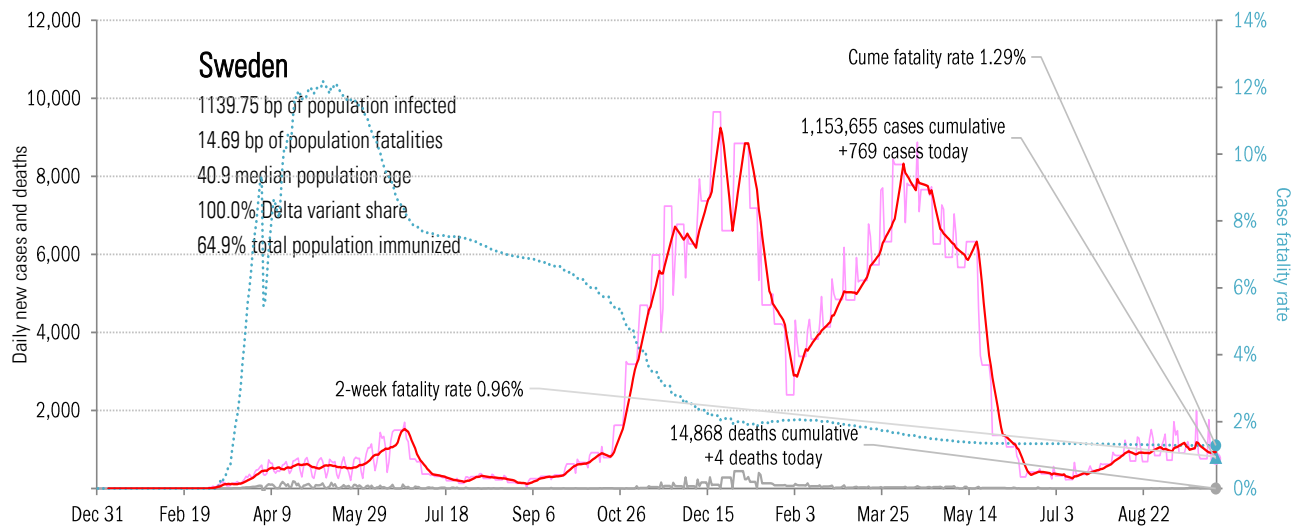
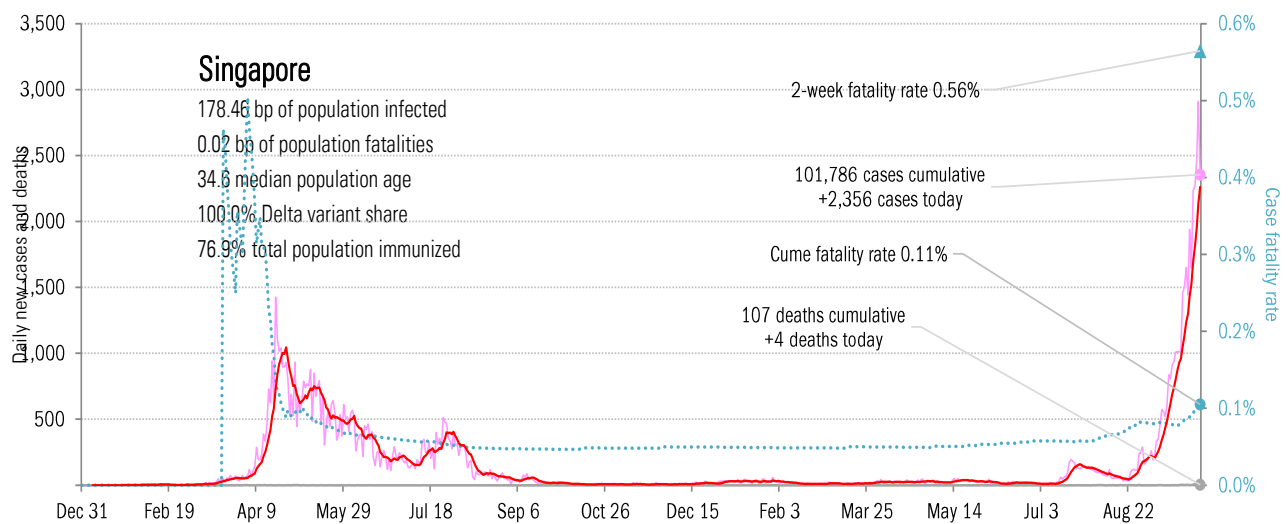
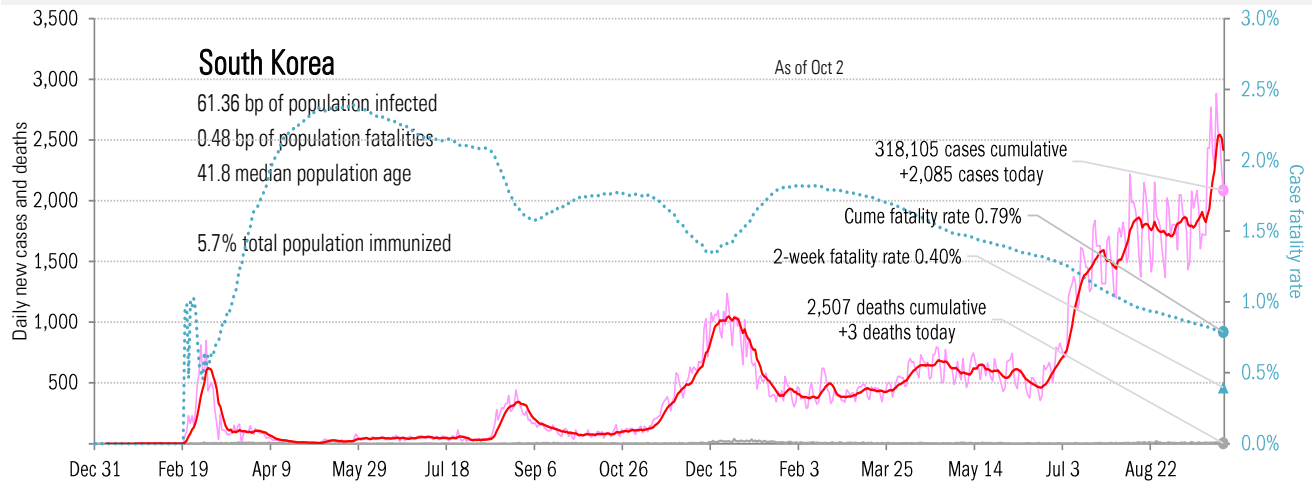
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

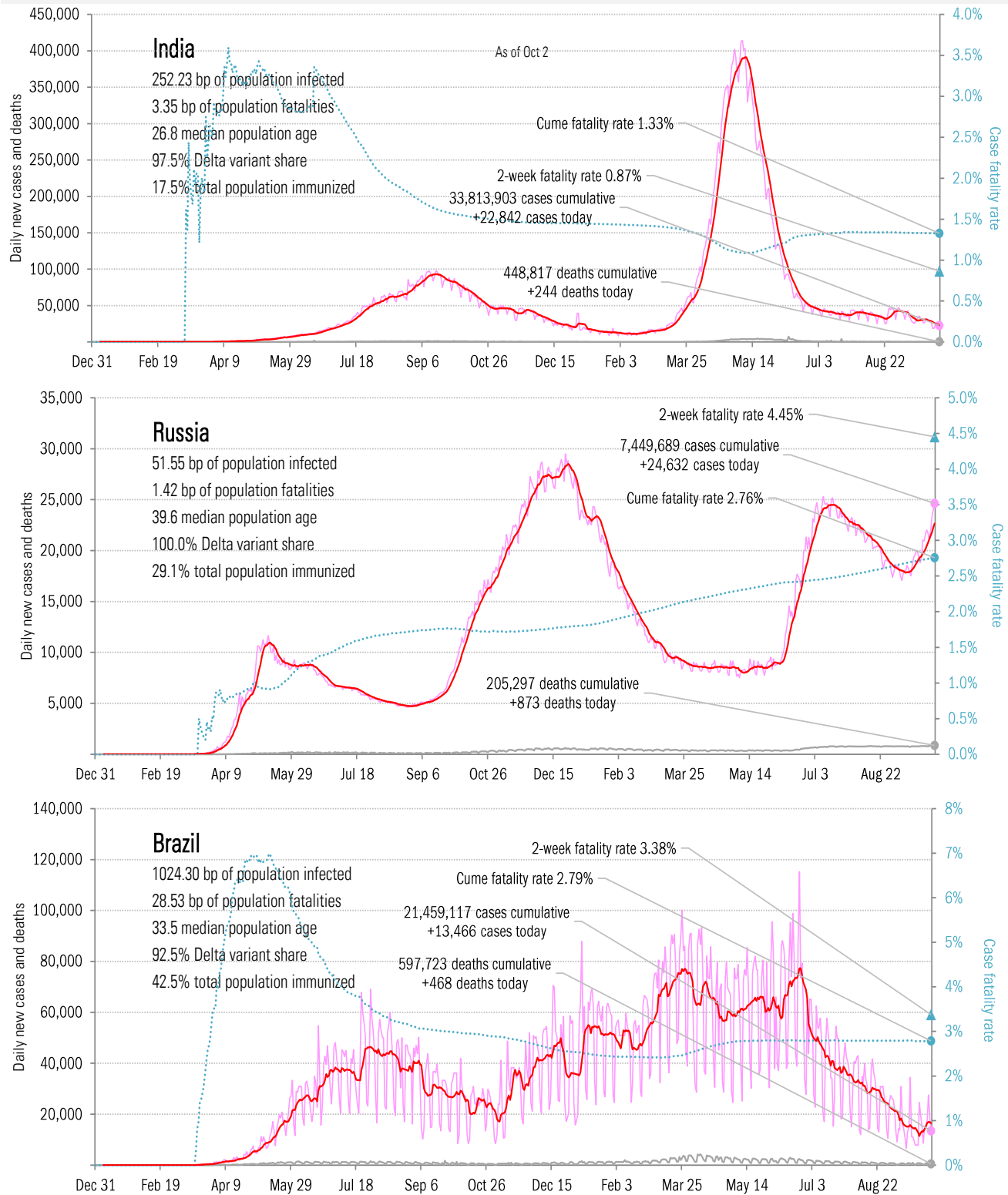
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

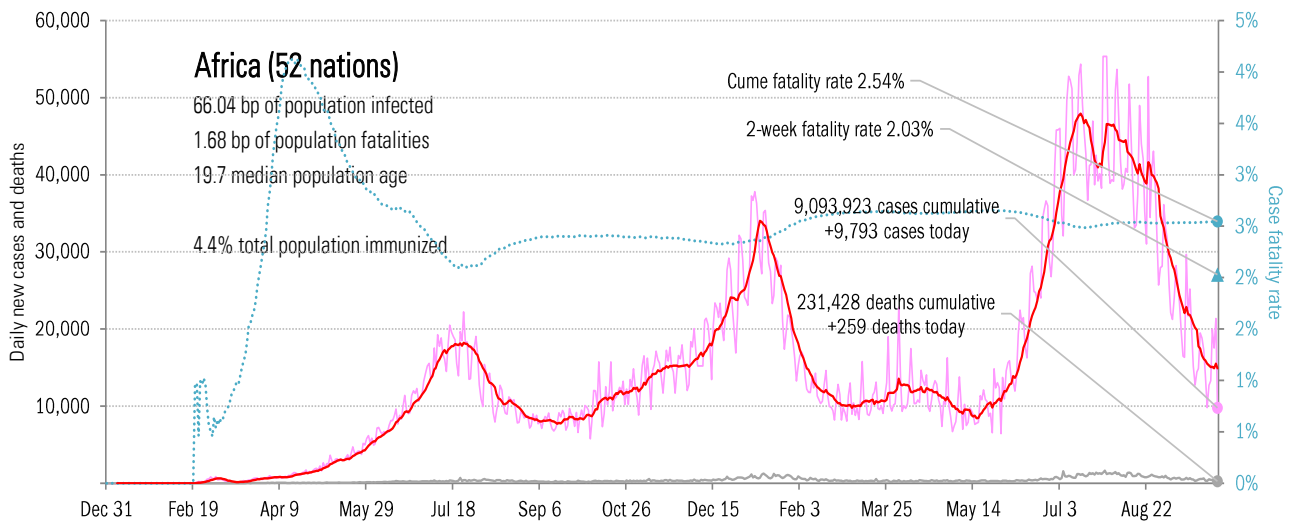
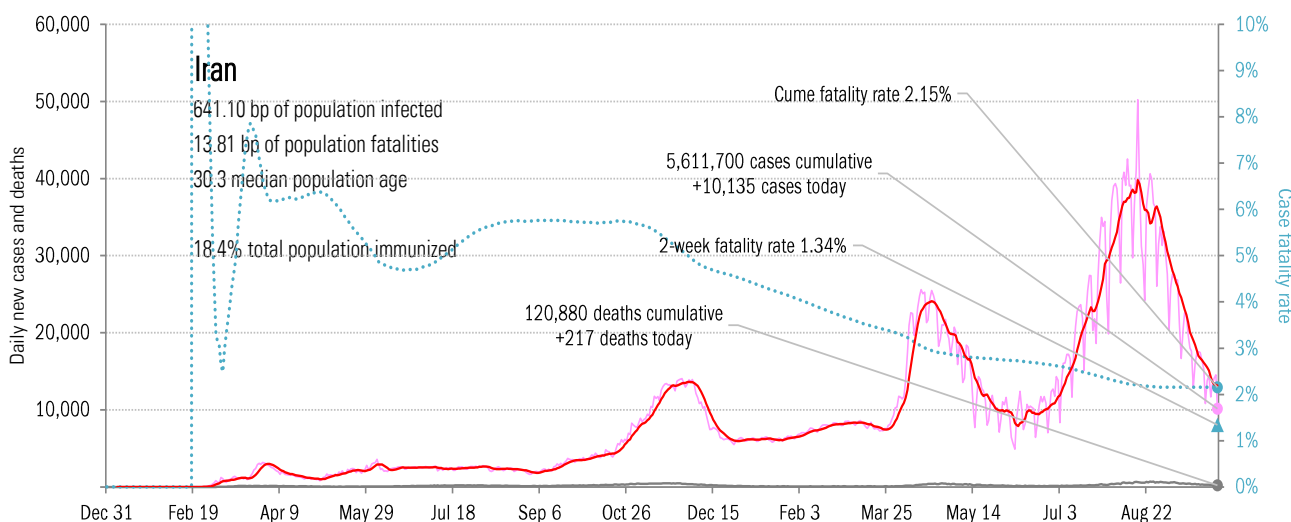
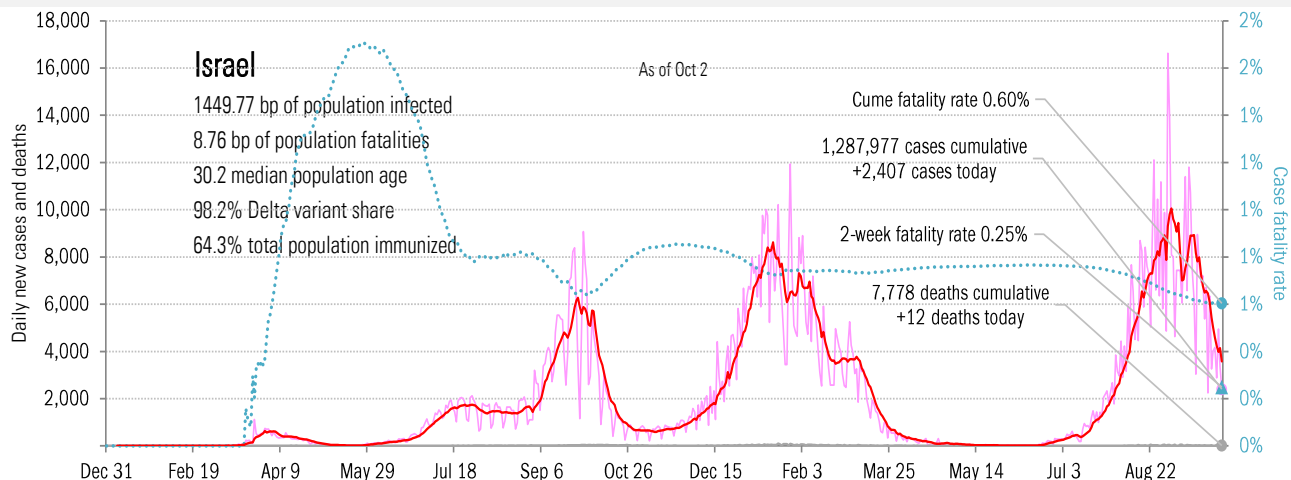
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

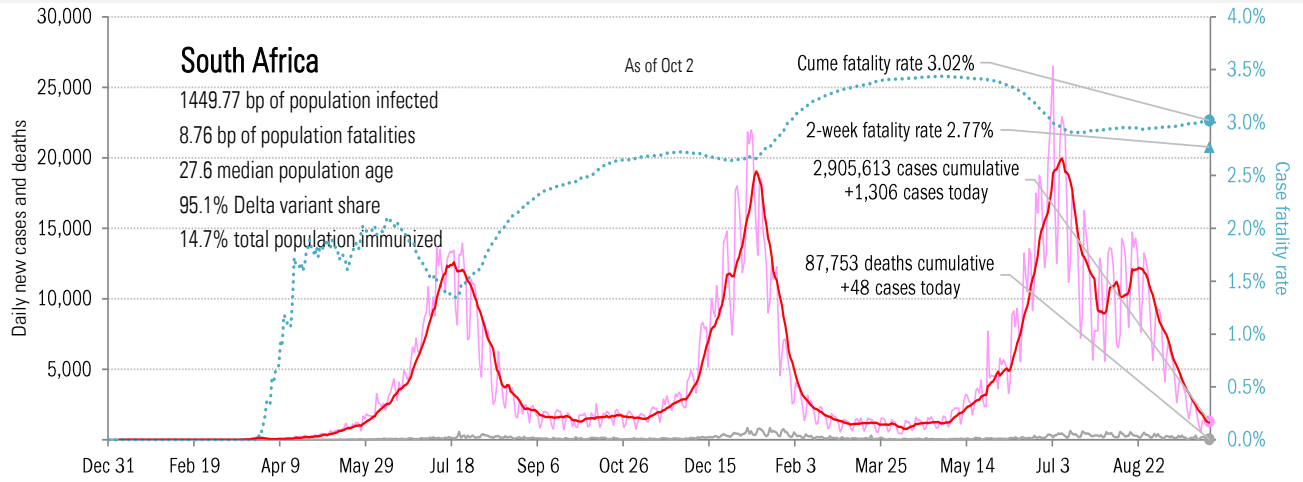
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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