

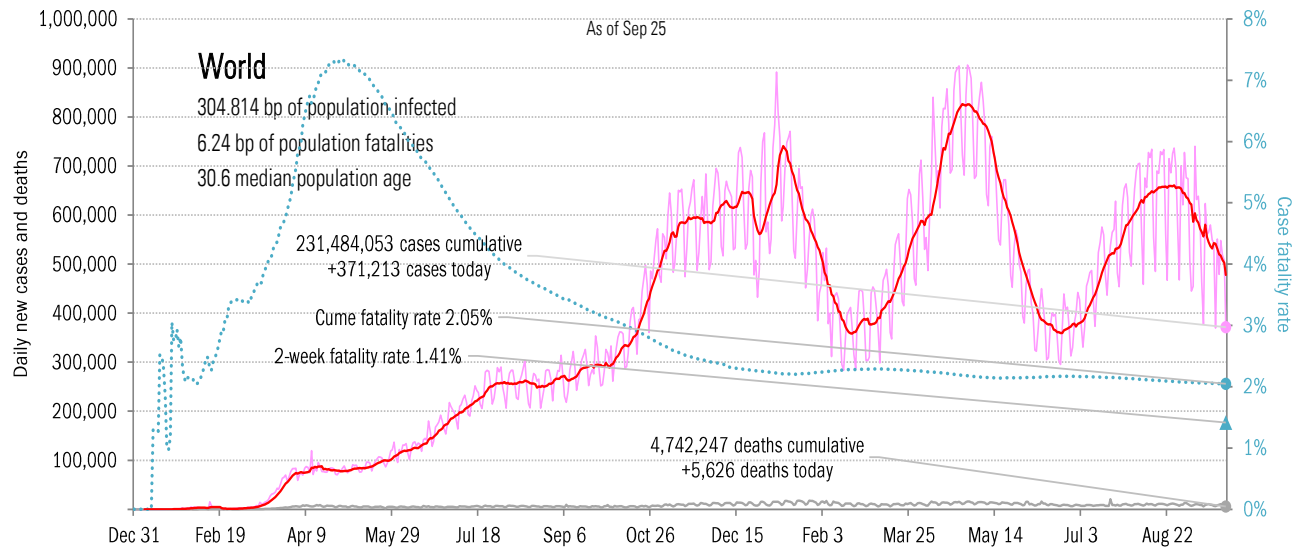
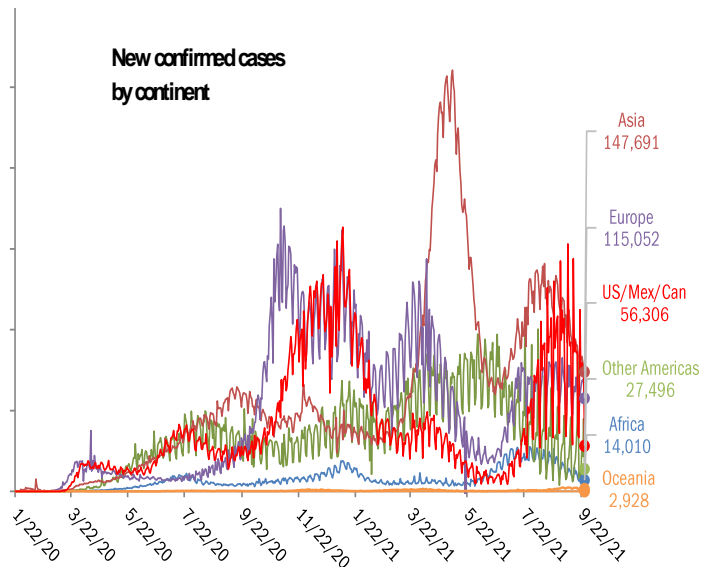
Data Insights: Covid-2019 Monitor

Sunday, September 26, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+55,261	United States	+996
United Kingdom	+29,976	Russia	+806
India	+28,326	Brazil	+537
Turkey	+26,145	Iran	+290
Russia	+21,583	India	+260
Philippines	+16,847	Malaysia	+228
Brazil	+15,688	Turkey	+193
Malaysia	+13,899	Vietnam	+180
Thailand	+11,975	Ukraine	+149
Iran	+10,843	United Kingdom	+129
+230,543		+3,768	
World	+371,213	World	+5,626
Top ten	62%	Top ten	67%



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

For more information contact us:

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

Cases: 7-day average and daily Deaths: Daily

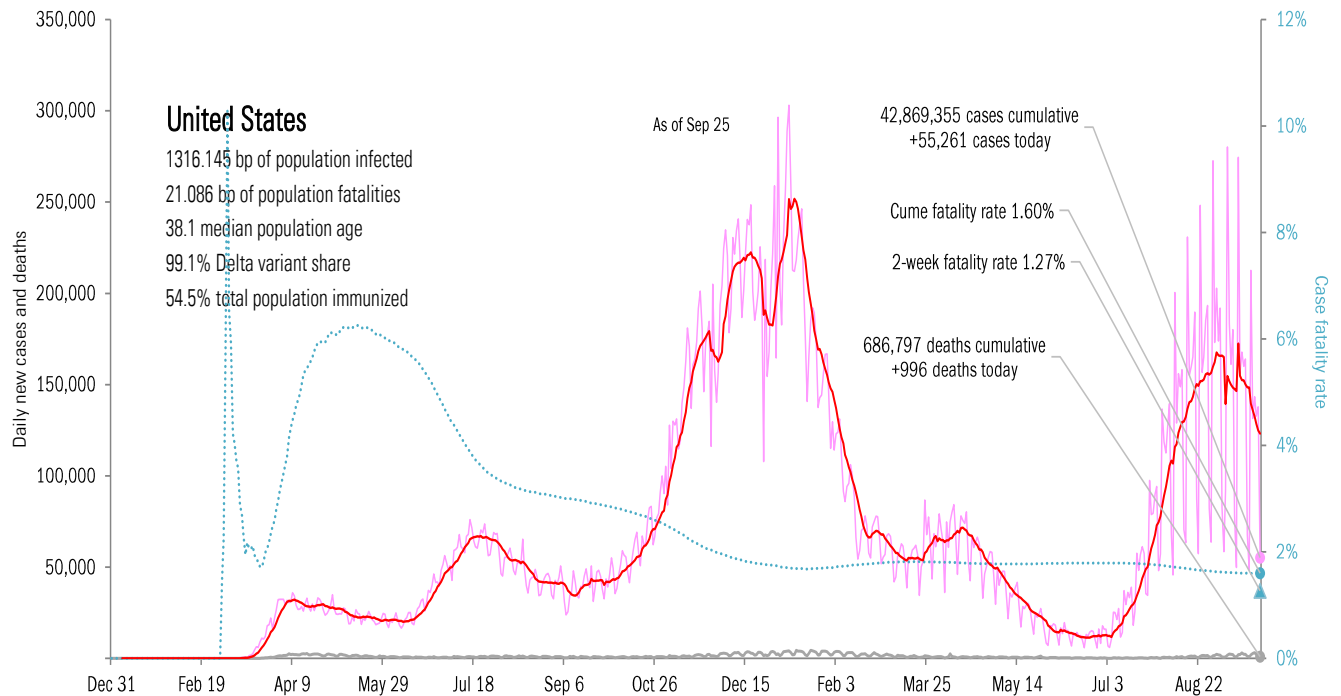
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
FL	+7,730		FL	+334		PA	+45		CA	4,678,891		CA	68,585		TX	353,900		RI	89%	AL	98%
TX	+7,482		TX	+278		NC	+34		TX	4,016,181		TX	63,934		FL	305,013		MA	88%	TX	93%
CH	+5,379		AL	+101		IA	+26		FL	3,550,907		NY	55,131		CA	294,994		MD	86%	GA	93%
PA	+4,502		AZ	+69		NY	+18		NY	2,402,248		FL	52,631		NY	154,511		PA	85%	AK	92%
IA	+4,485		PA	+55		CH	+11		IL	1,612,129		PA	29,119		GA	149,909		SC	84%	KY	92%
NY	+4,096		CA	+34		MD	+10		GA	1,557,536		NJ	27,323		CH	109,303		MO	83%	ID	91%
AL	+2,937		NY	+24		ND	+7		PA	1,407,328		IL	27,216		KY	105,412		GA	82%	NC	89%
AZ	+2,916		NE	+23		NV	+7		CH	1,385,749		GA	25,478		PA	105,020		MN	82%	OK	88%
CA	+2,352		MO	+18		WY	+6		NC	1,368,743		MI	22,214		IL	98,856		NY	82%	AR	86%
NJ	+2,234		NJ	+16		AK	+4		TN	1,209,568		CH	21,820		MI	82,324		NC	81%	FL	86%
+44,113			+952			+168			23,189,280			393,451			1,759,242						
All states	+55,261			+996			-862		All states	42,869,355			686,797			3,123,416		All states	70%		67%
Top ten	80%			96%			-19%		Top ten	54%			57%			56%		Median	77%		81%

Some states not reporting

Five most improved US states

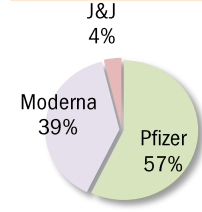
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-7,087	CH	-224	VI	-69	KY	+30 bp
TX	-6,716	GA	-140	VA	-53	FR	+30 bp
NC	-5,805	CA	-137	ME	-41	AL	+20 bp
TN	-5,638	TX	-125	WV	-36	DC	+20 bp
CA	-5,078	SC	-123	MI	-35	GA	+20 bp



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

Rolling out the vaccines in the US and the world

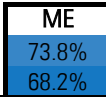
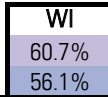
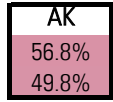
Administered	Cumulative		Today		Immunity	Full	Partial	
Doses	One dose	% Pop	Immune	% pop	New immune today			
	400,361,778				+0.839 million	US	54.5%	63.4%
Total population	218,374,178	65%	187,966,235	56%	+0.407 million	UK	65.5%	71.4%
Age 12 to 17	13,549,712	57%	10,973,540	46%	+0.046 million	France	65.0%	74.1%
Age 18 to 64	150,992,600	74%	129,058,081	63%	+0.317 million	Spain	77.7%	80.4%
Age 65 and over	52,766,577	96%	47,063,448	86%	+0.043 million	Germany	63.3%	67.1%
						Italy	67.0%	74.2%
						Australia	40.8%	61.7%
						Israel	63.8%	69.2%
						Canada	70.2%	76.3%
						Japan	56.1%	68.1%
						Africa	4.2%	6.4%
						India	16.0%	45.2%
						Brazil	40.2%	69.6%
						China	70.8%	76.2%



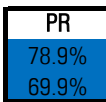
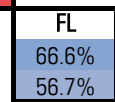
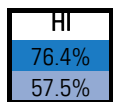
State
At least partial immunity as % population
Full immunity as % population



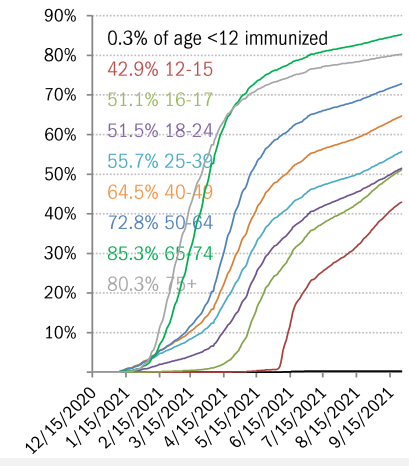
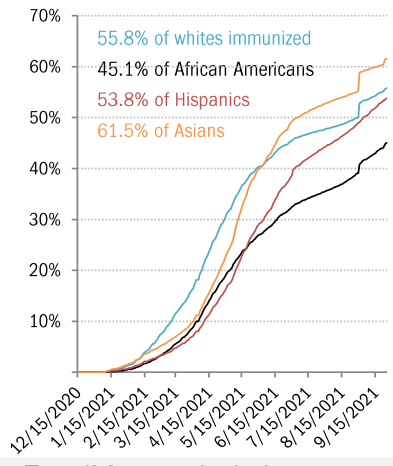
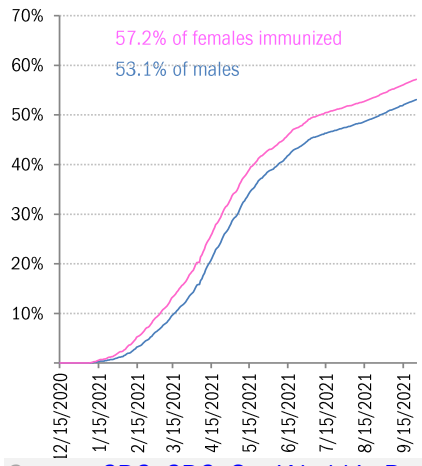
Every American >18 immune in **103 days** by Jan 6, 2022
 68.2% of population >18 immunized
 14.6% previously tested positive
82.8% vs 60% adult herd immunity



WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
66.9%	46.7%	54.5%	50.7%	63.3%	68.1%	56.7%	70.7%	77.4%	69.1%	
60.4%	41.3%	48.2%	43.8%	57.9%	53.2%	52.1%	63.2%	69.2%	61.3%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
66.3%	60.4%	48.0%	58.7%	57.9%	52.0%	54.0%	71.9%	72.1%	77.1%	
60.4%	50.4%	41.1%	51.3%	53.7%	48.1%	49.9%	57.5%	64.0%	67.6%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
71.4%	58.7%	65.3%	59.1%	54.6%	60.3%	48.0%	68.0%	70.3%	75.7%	74.8%
58.6%	50.3%	59.0%	54.4%	47.5%	51.9%	40.3%	60.1%	63.8%	68.4%	67.8%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	59.0%	72.2%	59.5%	55.5%	52.4%	58.9%	54.8%	70.3%	65.9%	
	50.8%	62.7%	50.7%	45.2%	45.0%	49.3%	46.7%	59.8%	57.3%	
			OK	LA	MS	AL	GA			
			56.2%	51.5%	49.9%	52.3%	54.6%			
			47.1%	45.0%	43.1%	42.0%	45.1%			
			TX							
			59.6%							
			50.9%							
								FL		PR
								66.6%		78.9%
								56.7%		69.9%



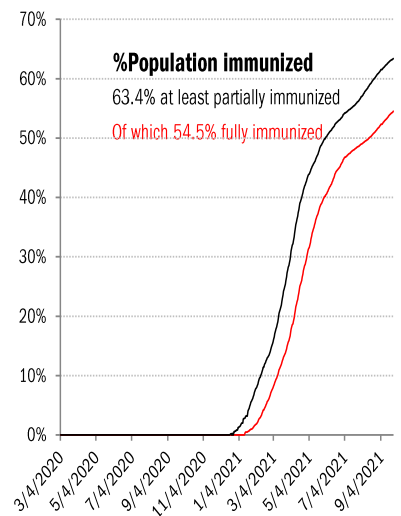
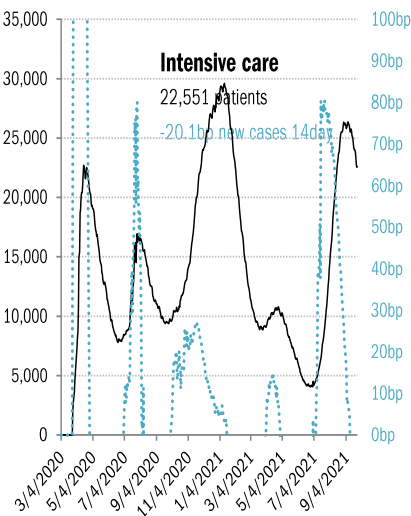
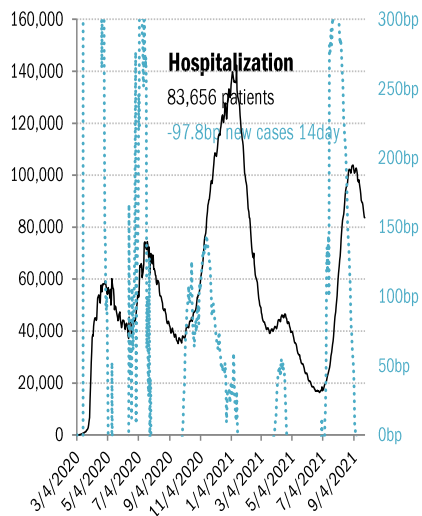
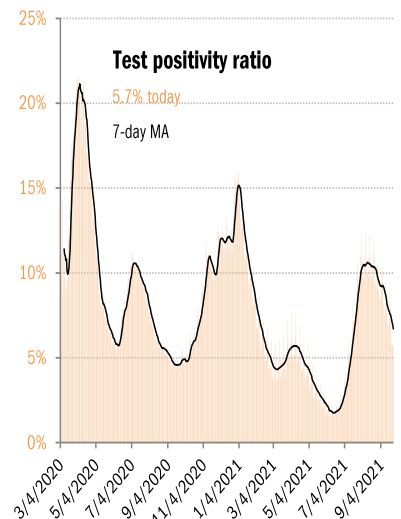
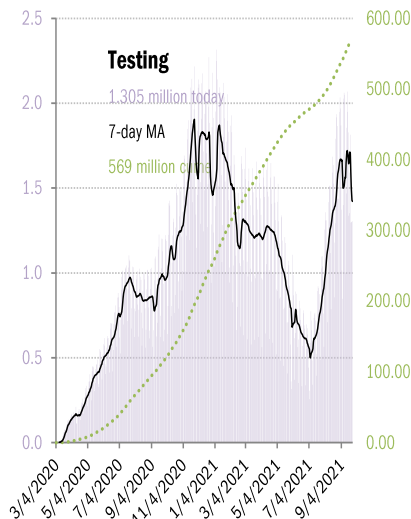
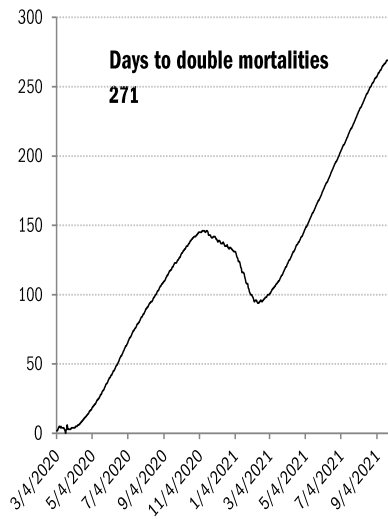
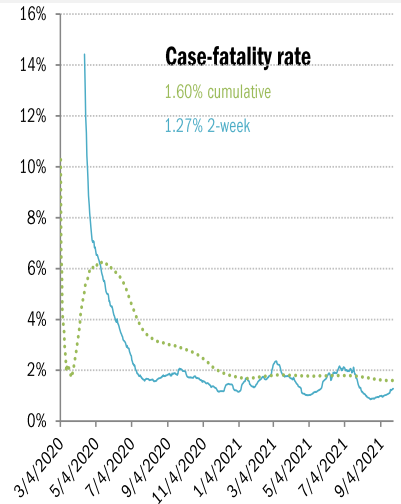
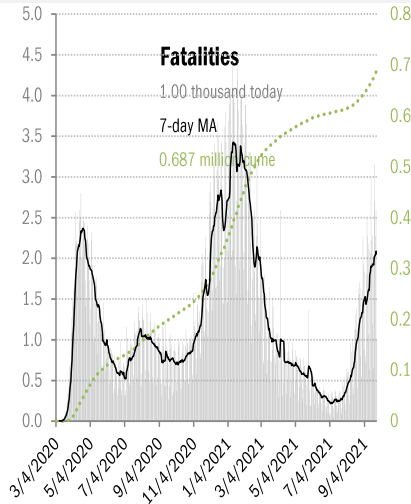
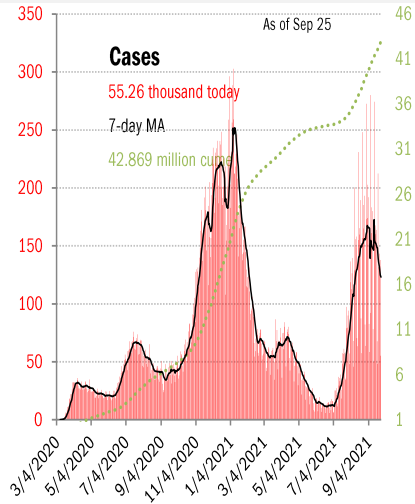
The demographics of US vaccination



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

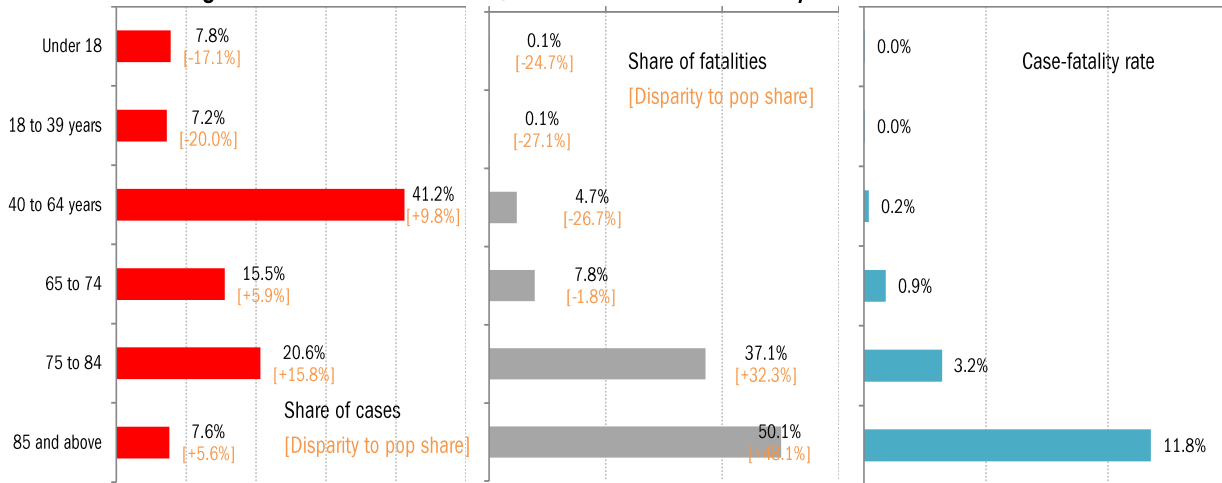
US deep-dive

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

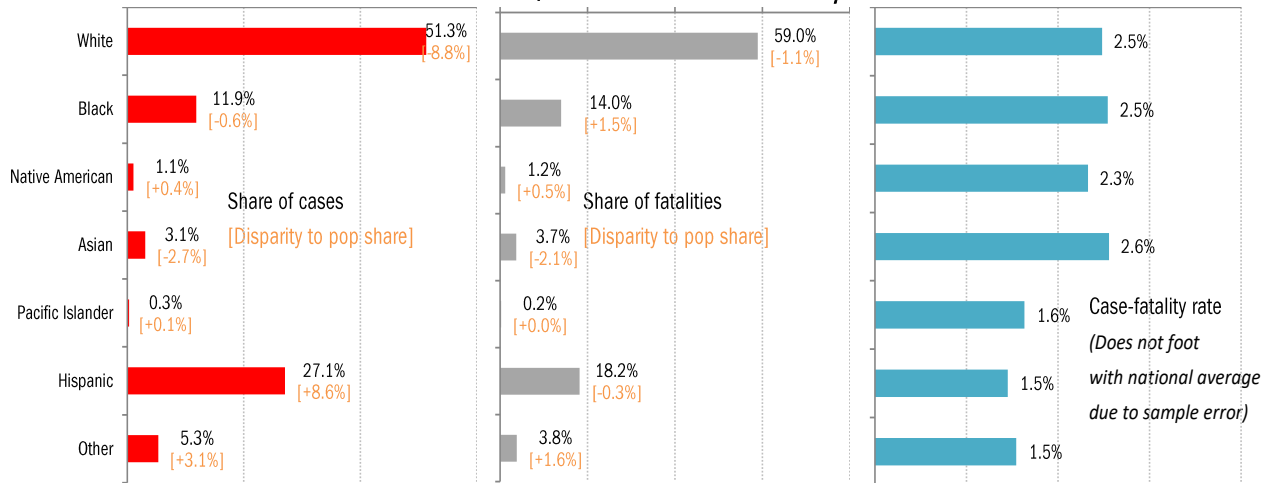


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

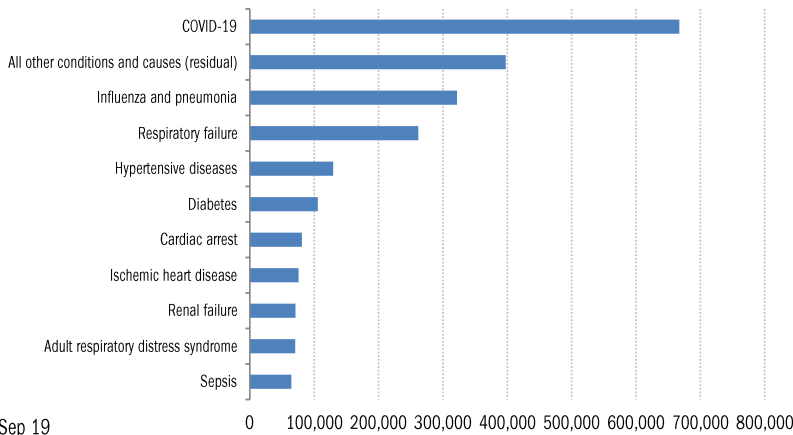


Racial distribution of US cases, fatalities and case-fatality rates Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Sep 19

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

[New York weighs using the National Guard to replace unvaccinated health care workers.](#)

Victor Manuel Ramos
New York Times
September 25, 2021

[This Is No Way to End a Pandemic](#)

New York Times
September 25, 2021

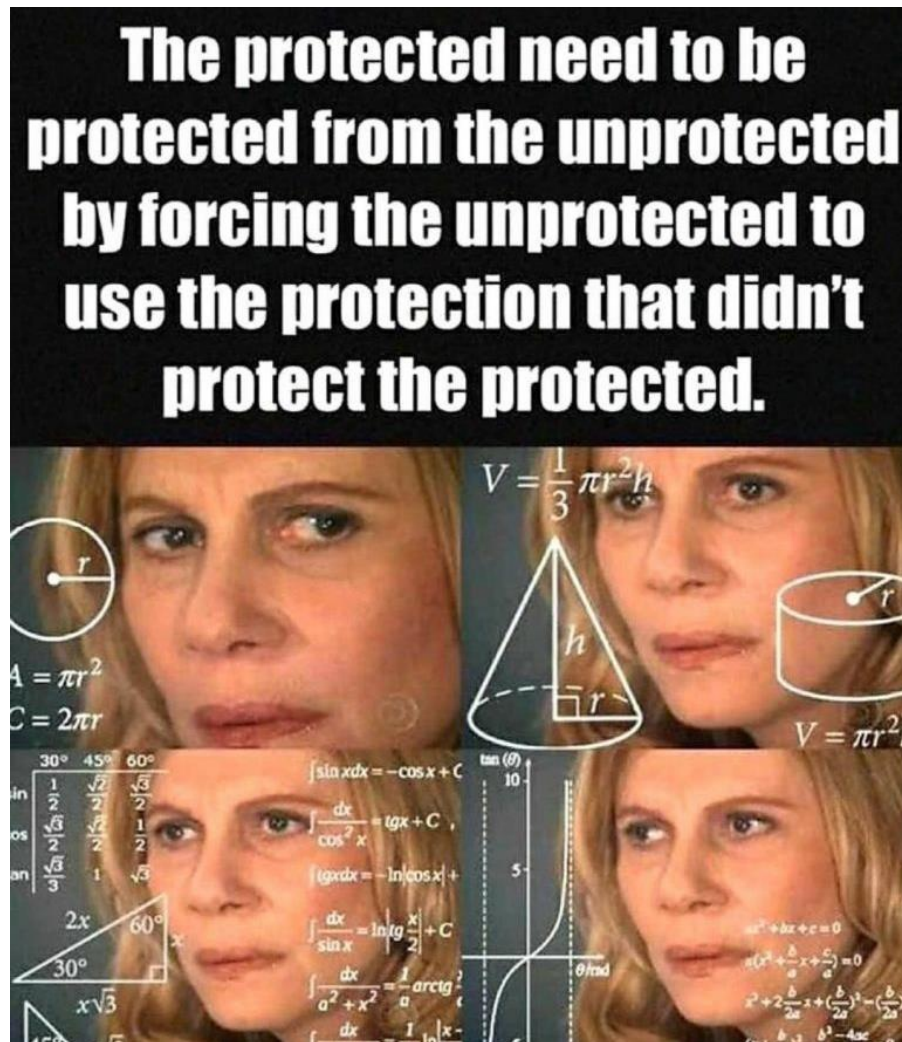
[It Took Years to Reach Vaccine Warp Speed](#)

Eric D. Hargan and Robert Kadlec
Wall Street Journal
September 24, 2021

[States Begin a Complex Booster Shot Rollout for Pfizer Recipients](#)

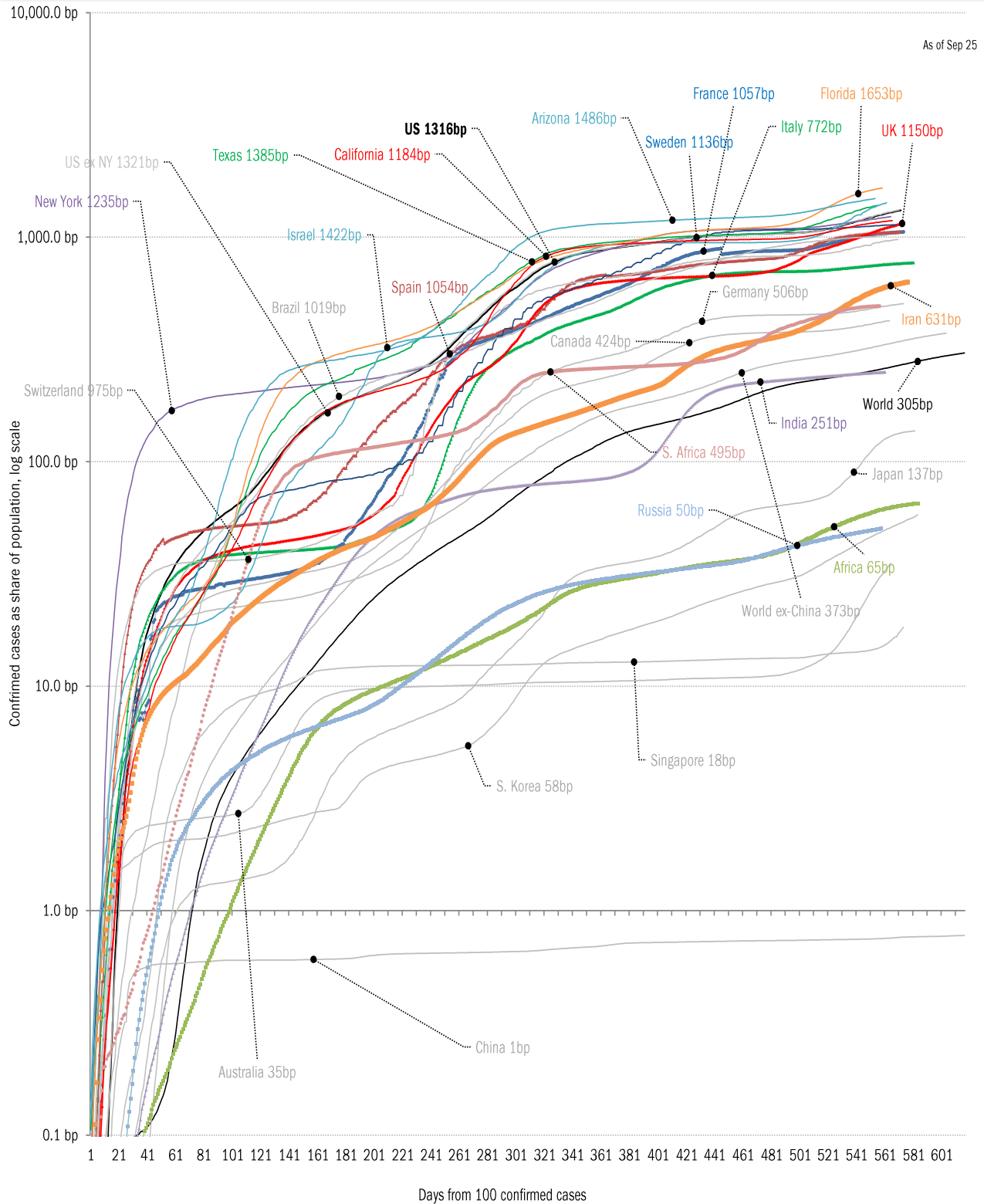
Noah Weiland, Reed Abelson and Jan Hoffman
New York Times
September 24, 2021

Meme of the day



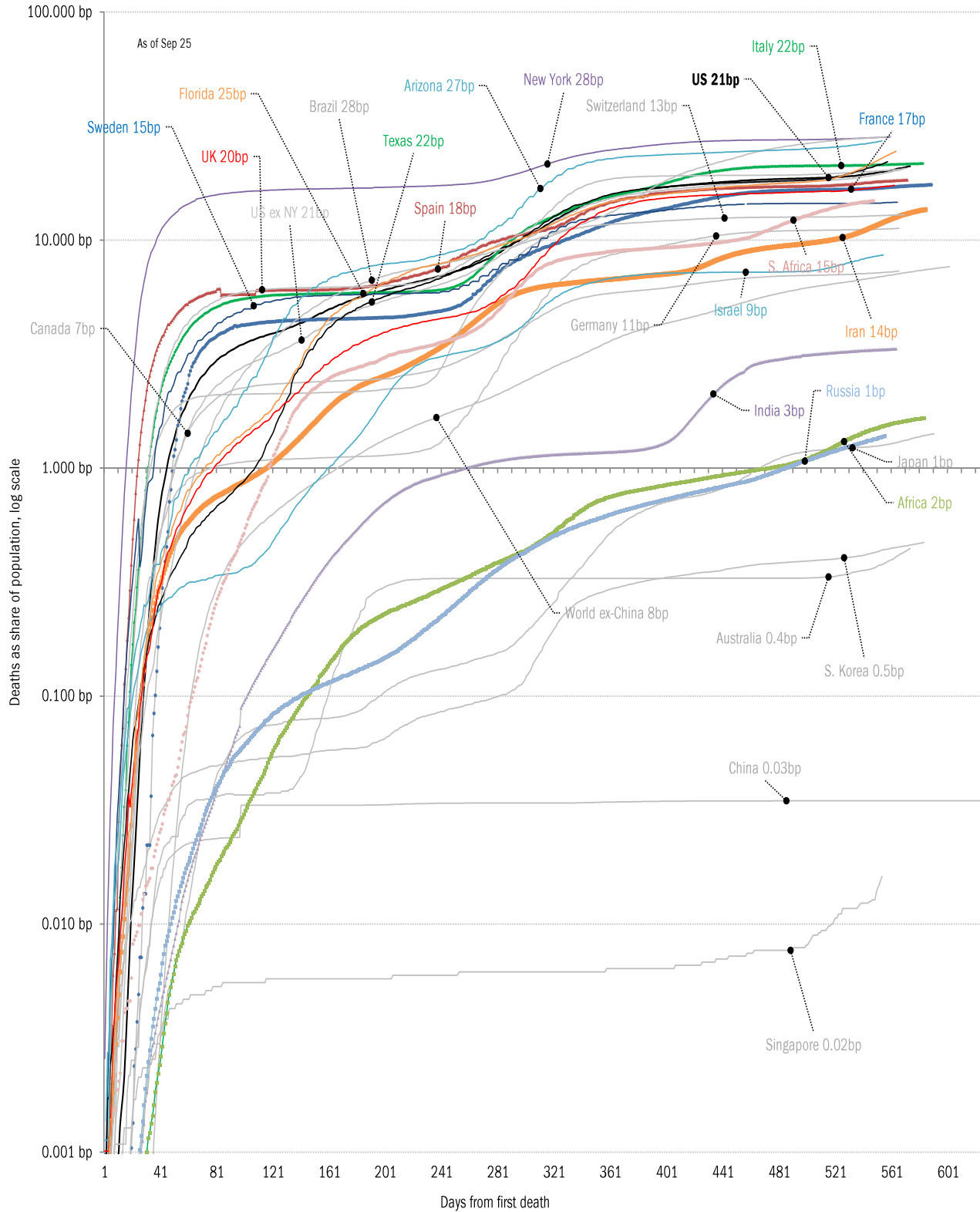
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

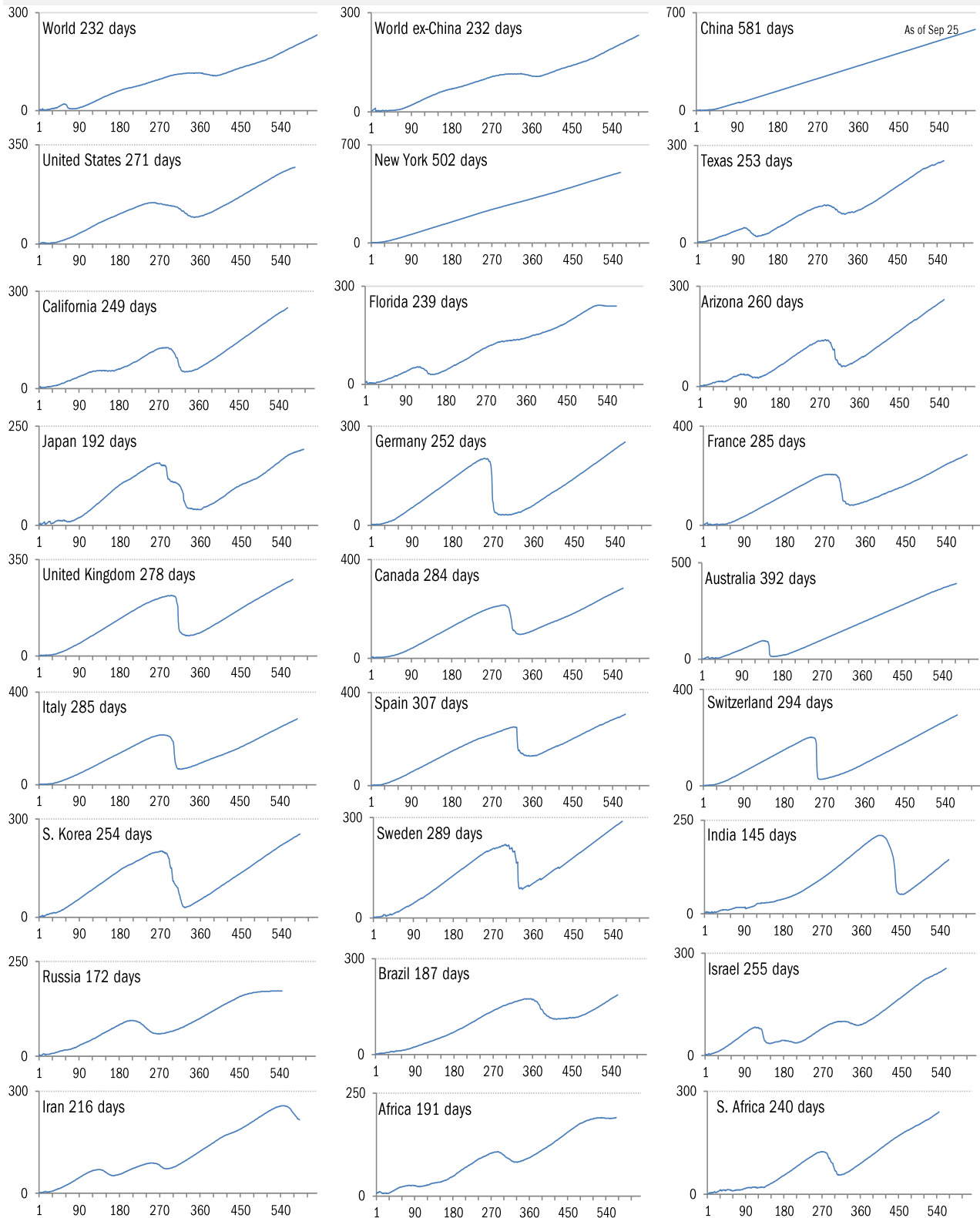


Source: [Johns Hopkins](#), TrendMacro calculations

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

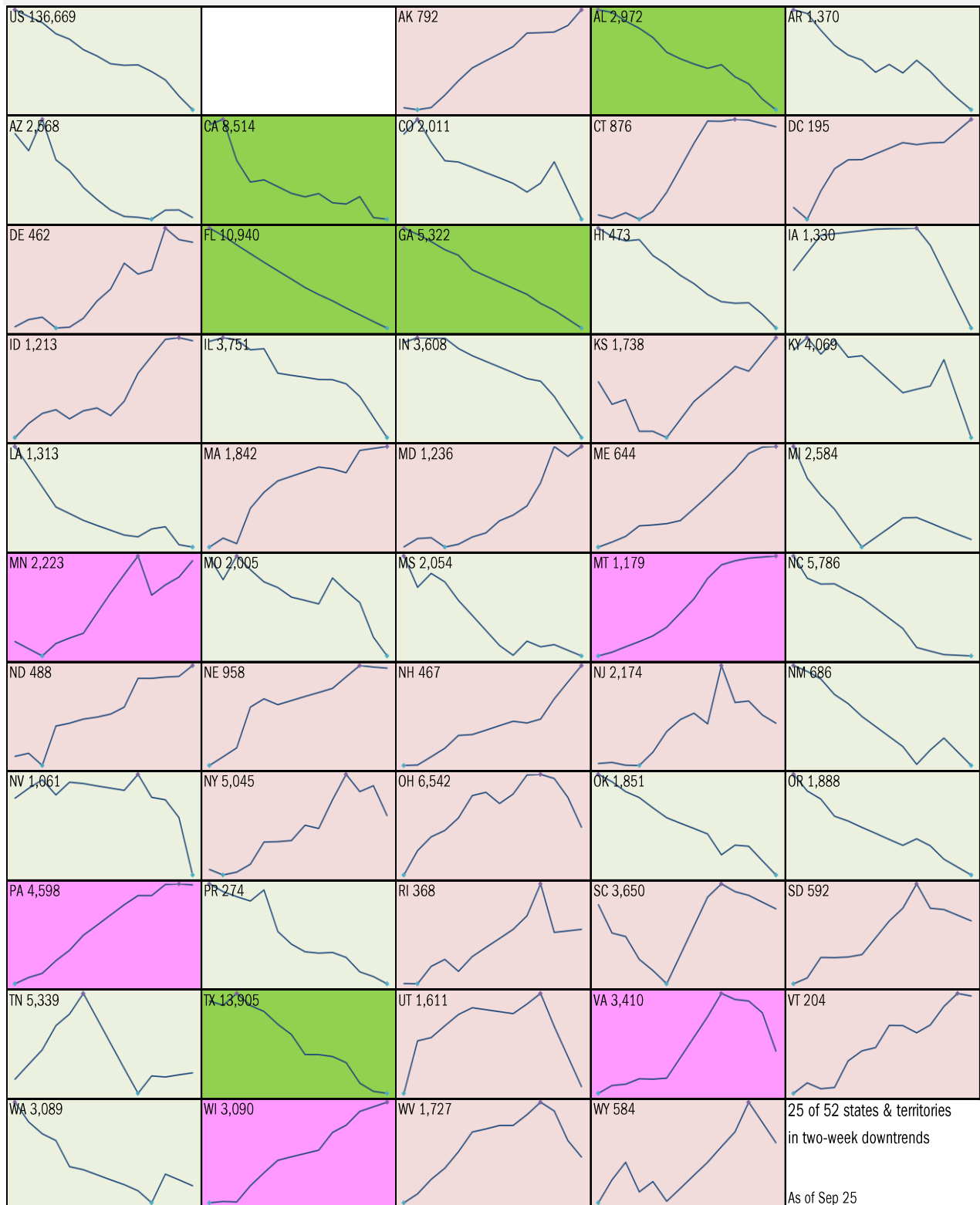
Vertical: days to double deaths Horizontal: days from first death

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

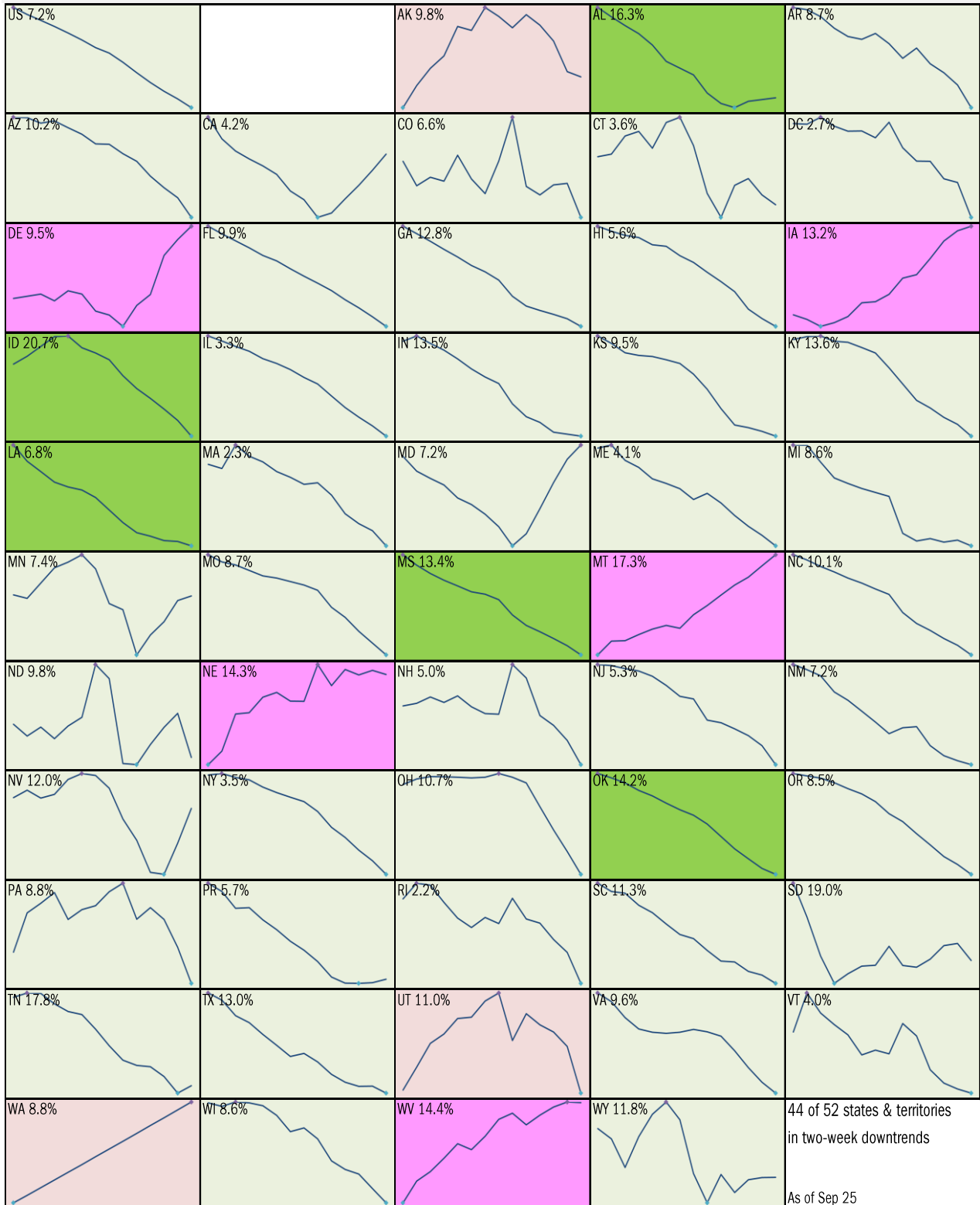


Source: [Johns Hopkins](#), TrendMacro calculations

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

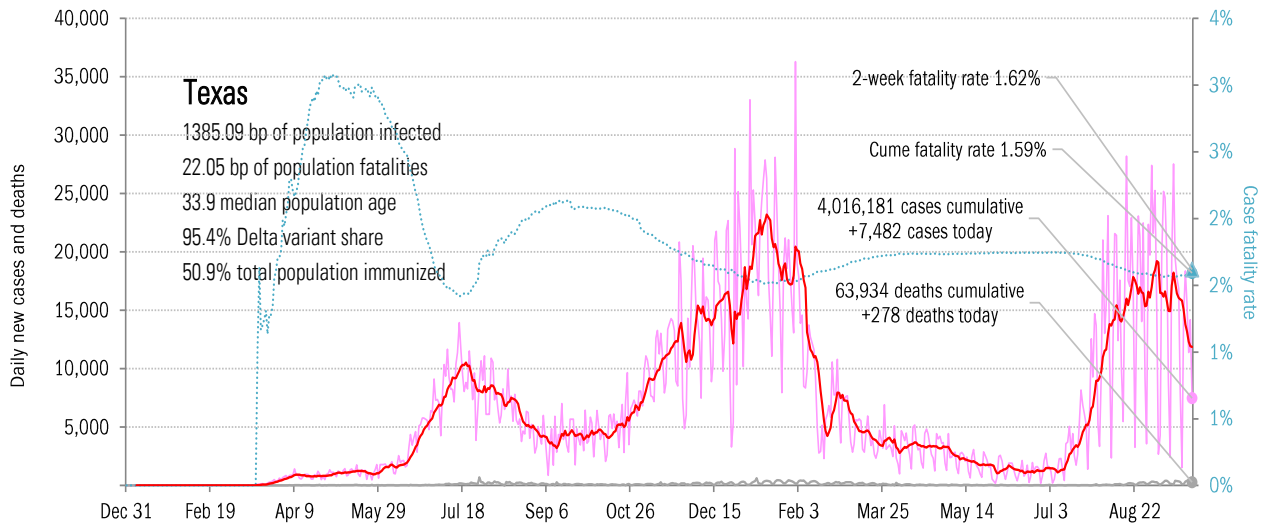
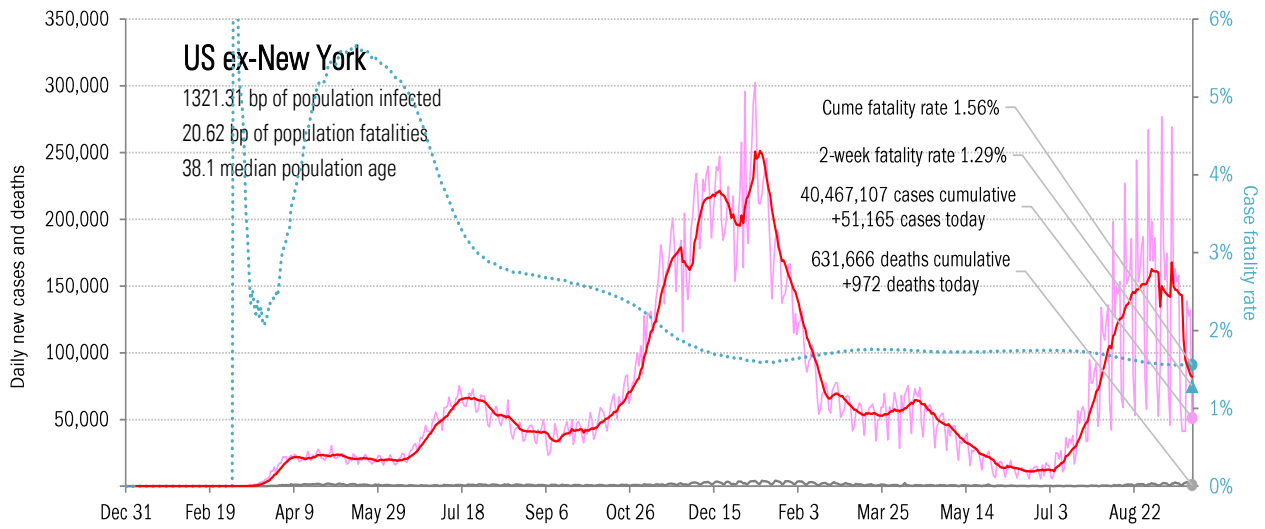
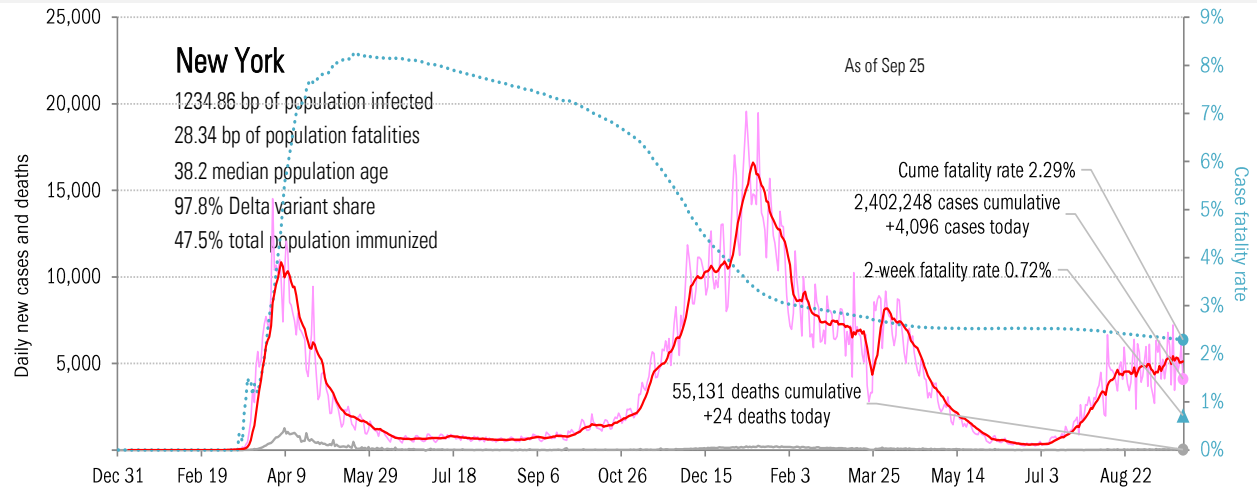
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

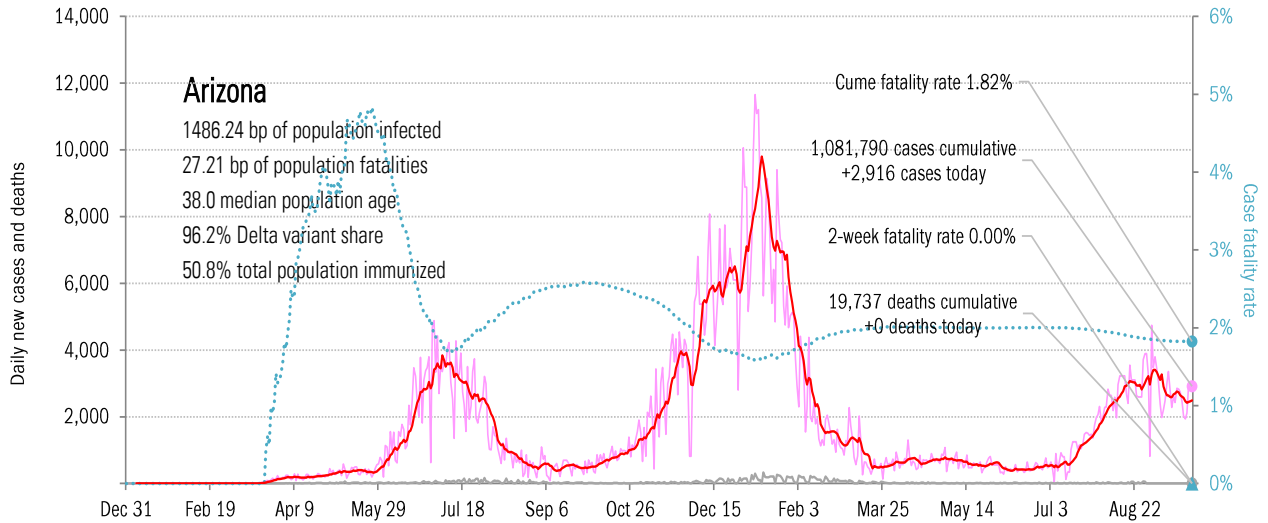
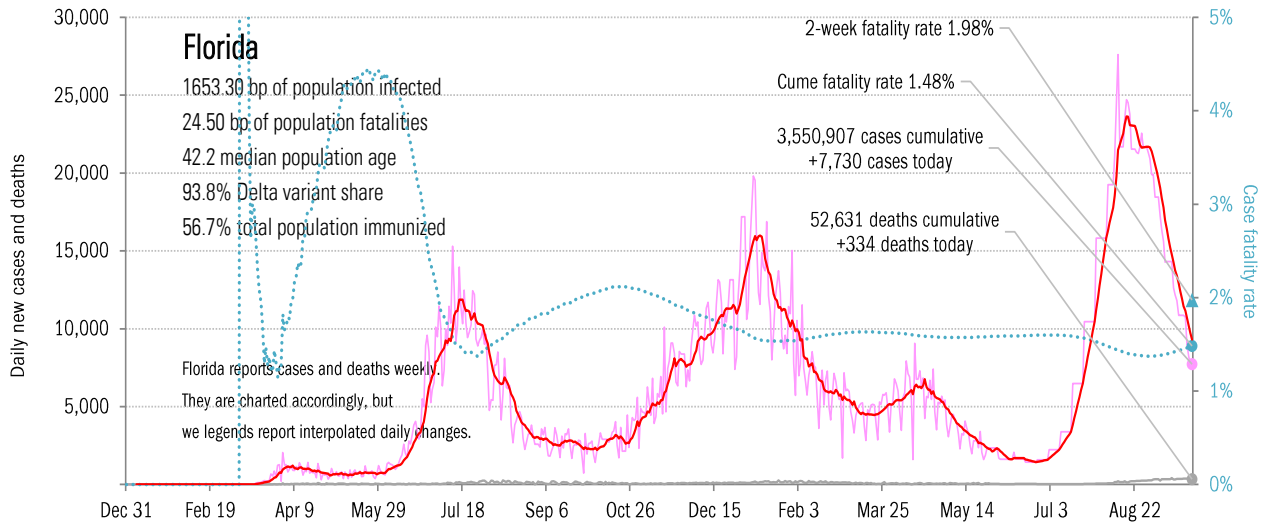
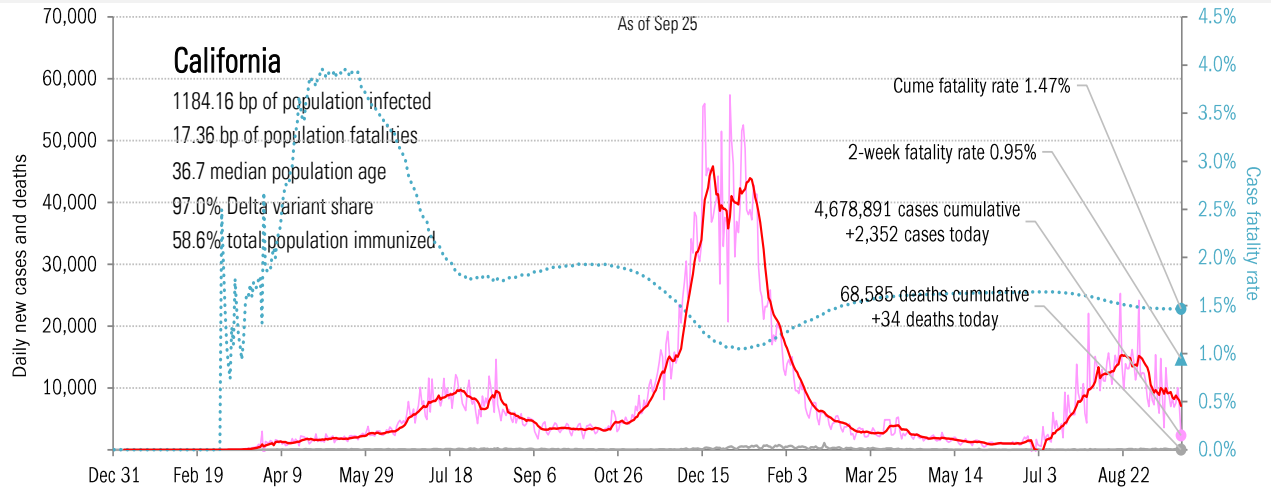
Cases: 7-day average and daily Deaths: Daily



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

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

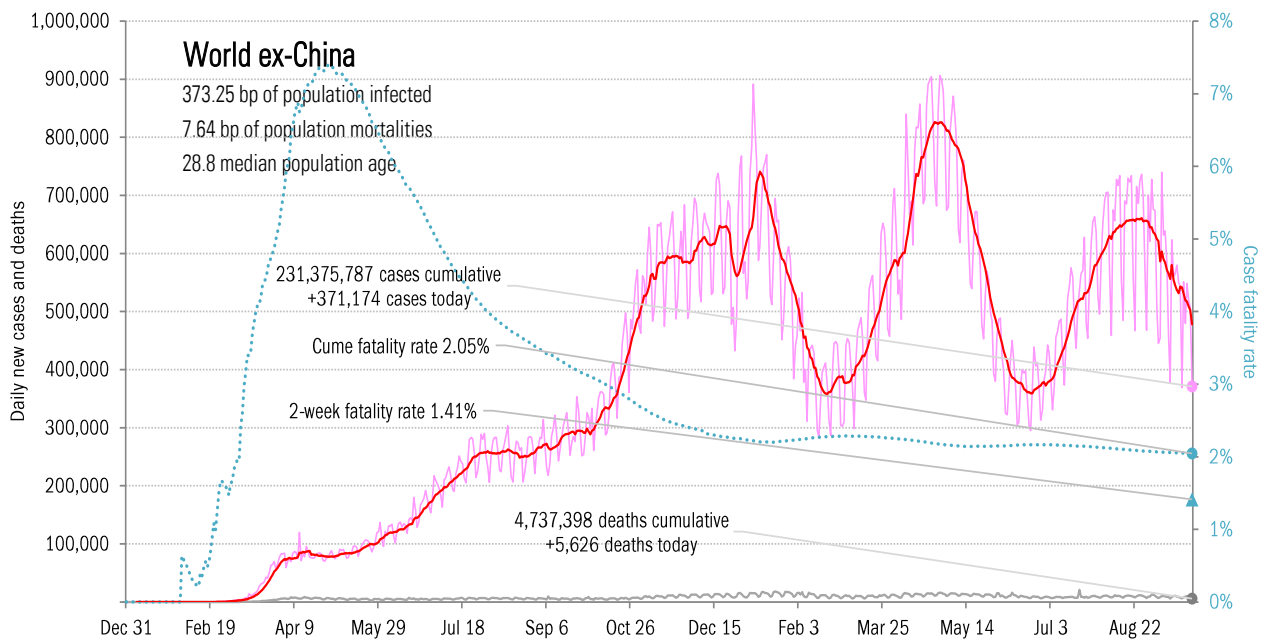
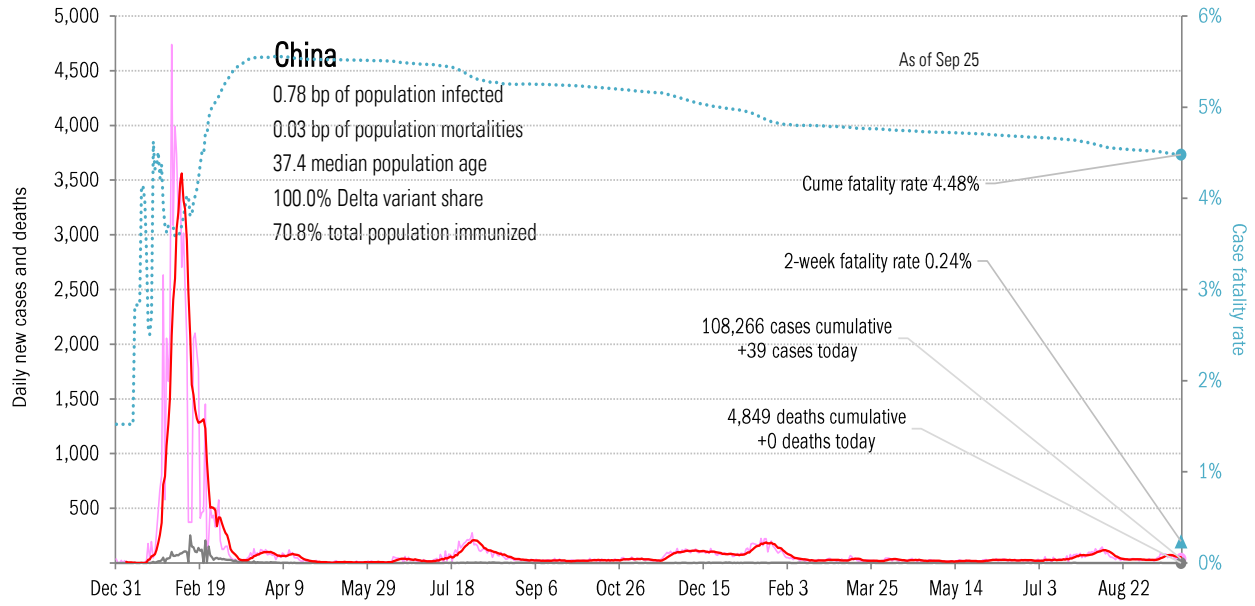
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

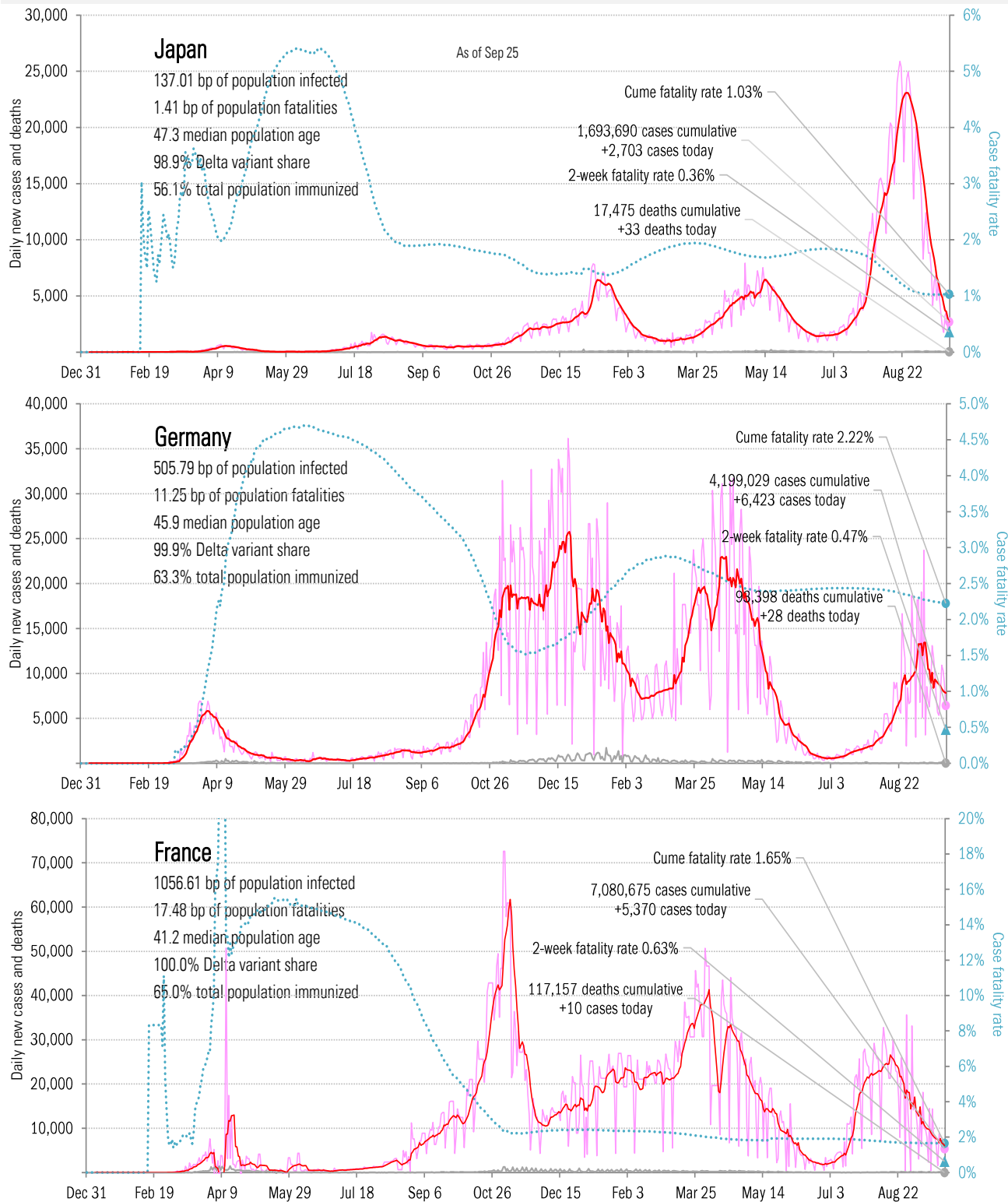
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

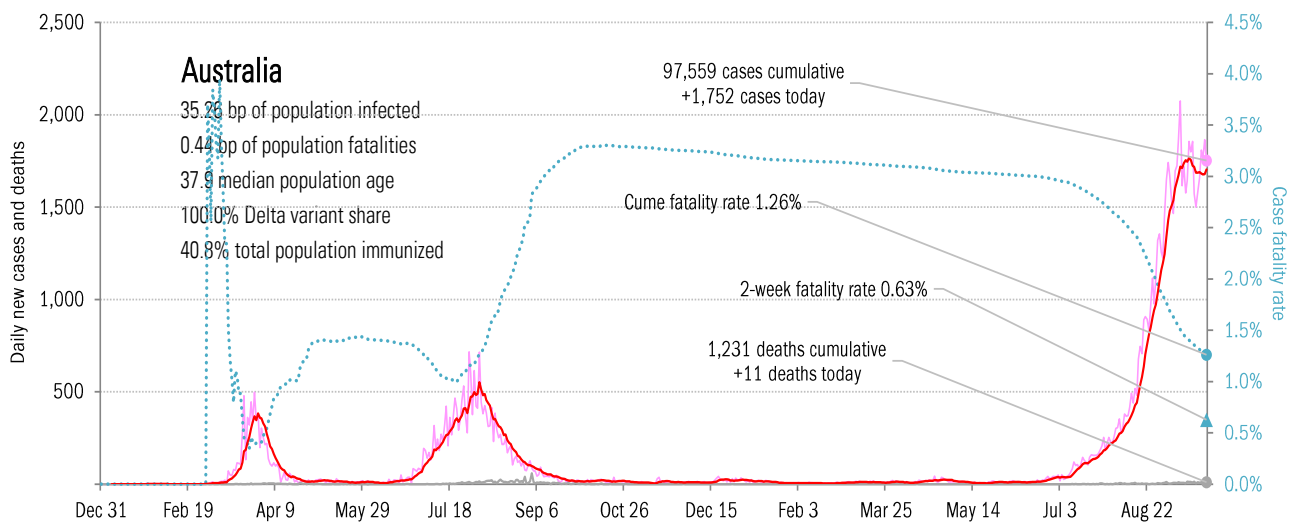
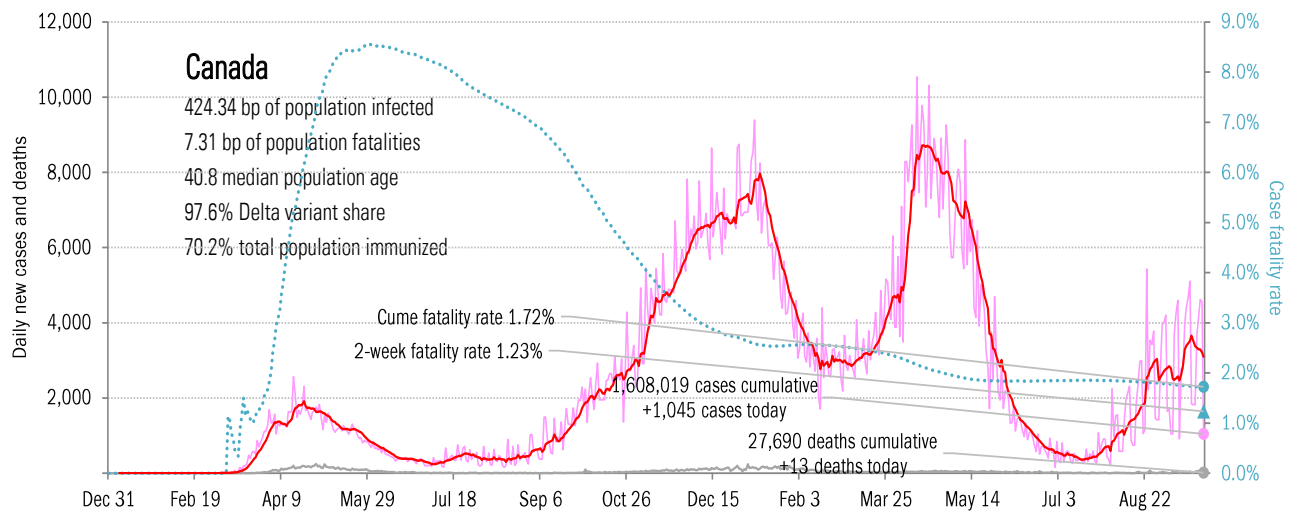
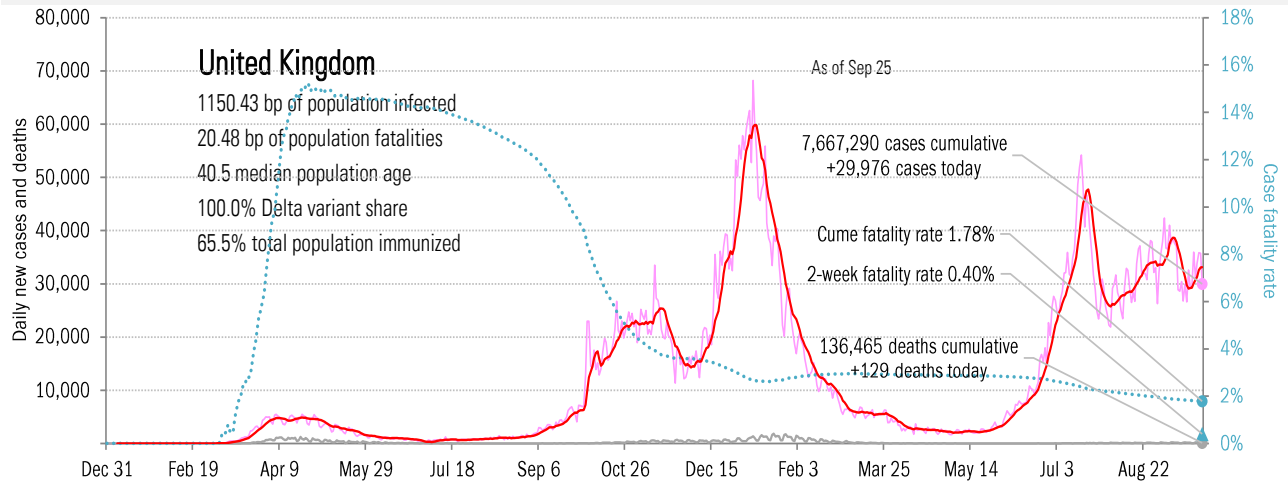
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

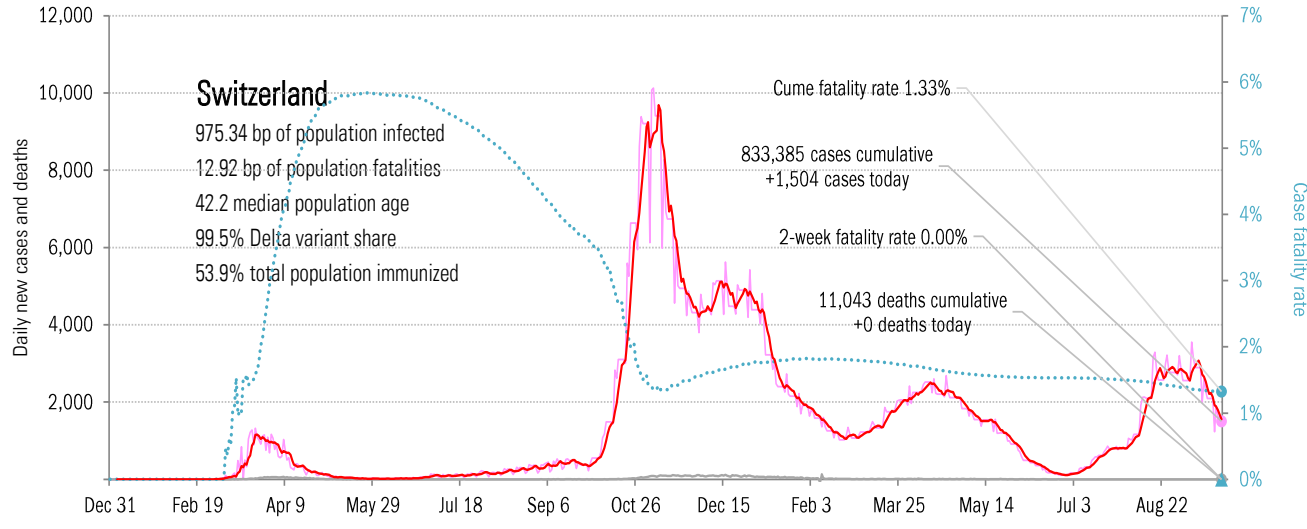
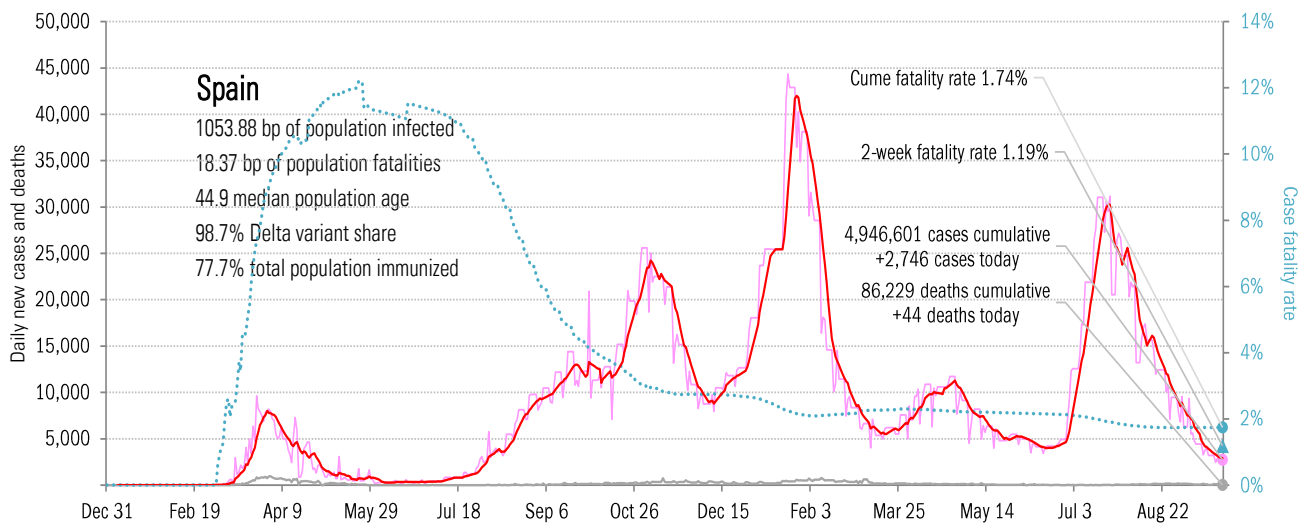
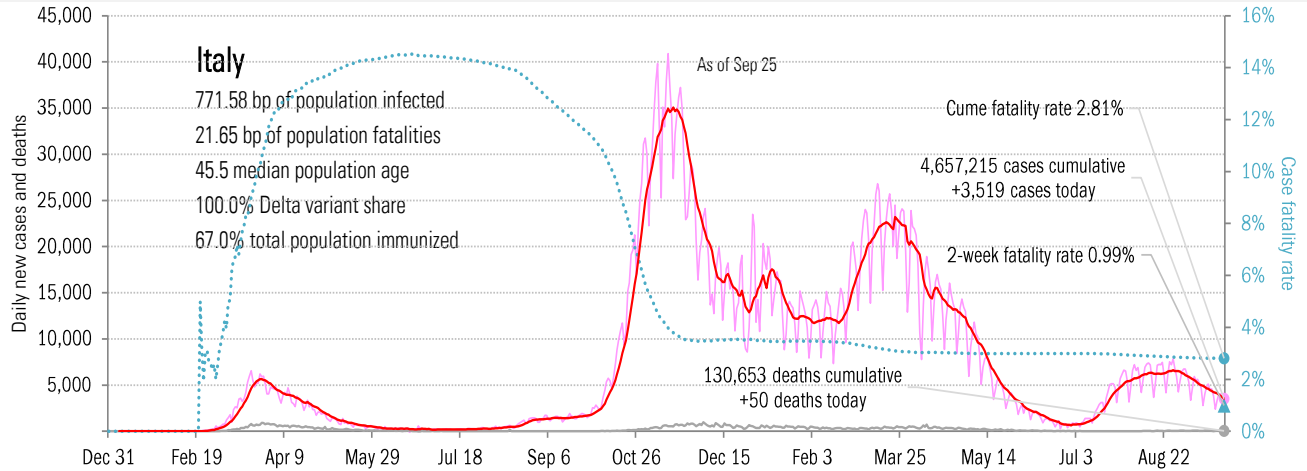
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

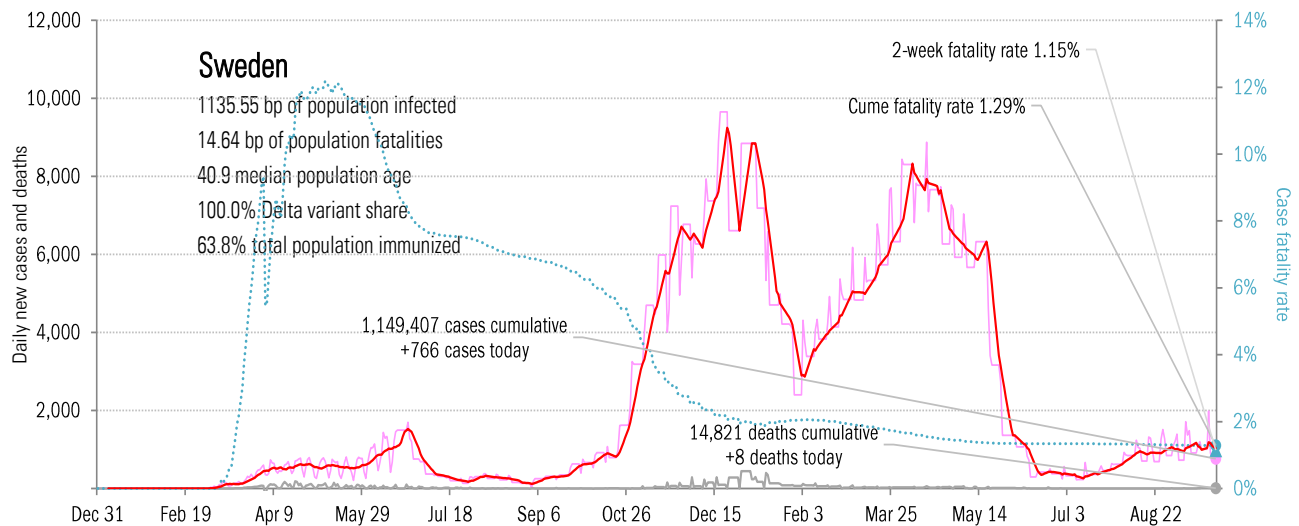
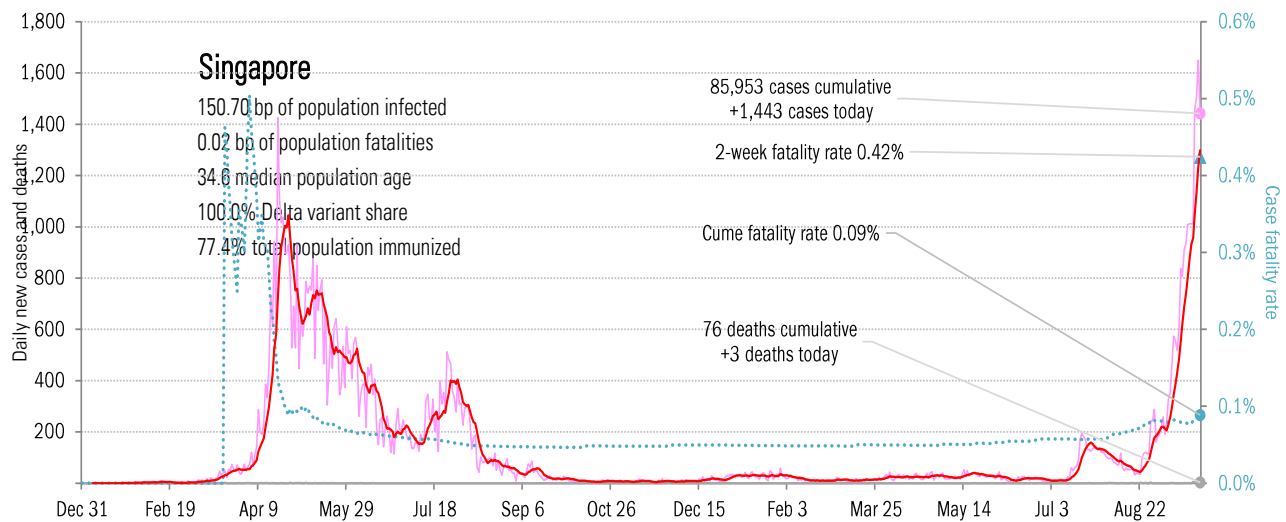
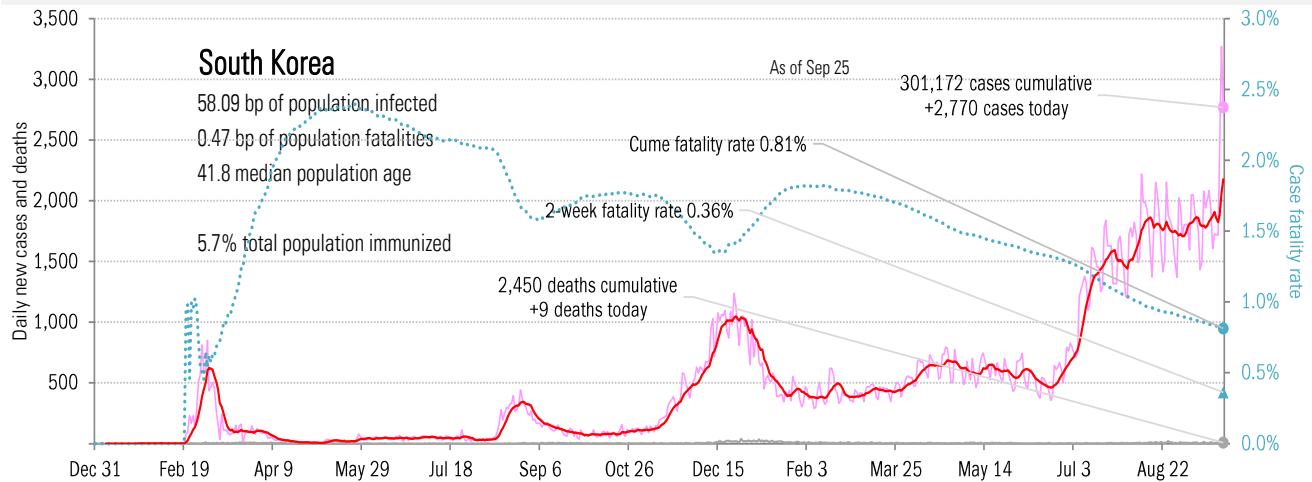
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

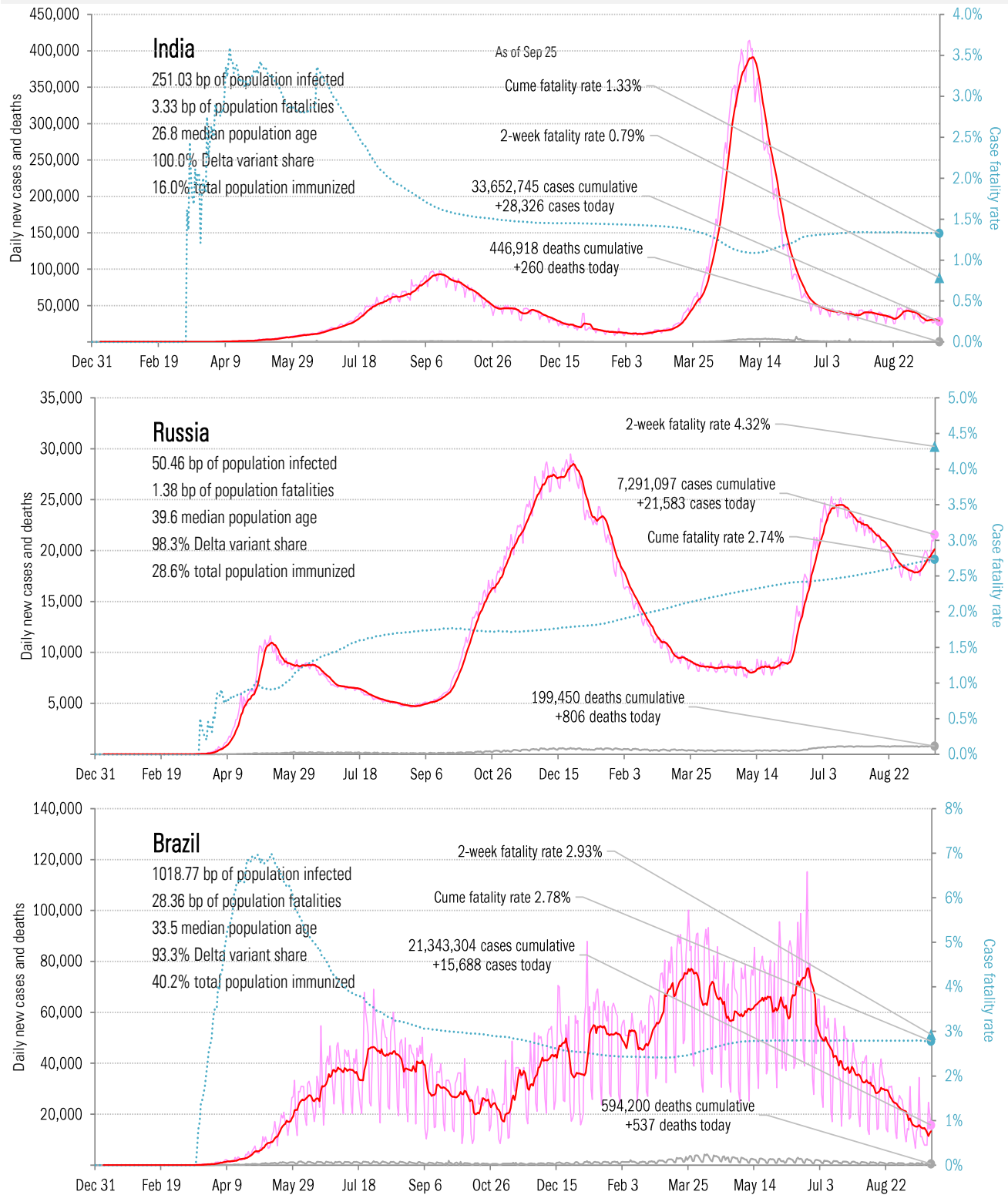
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

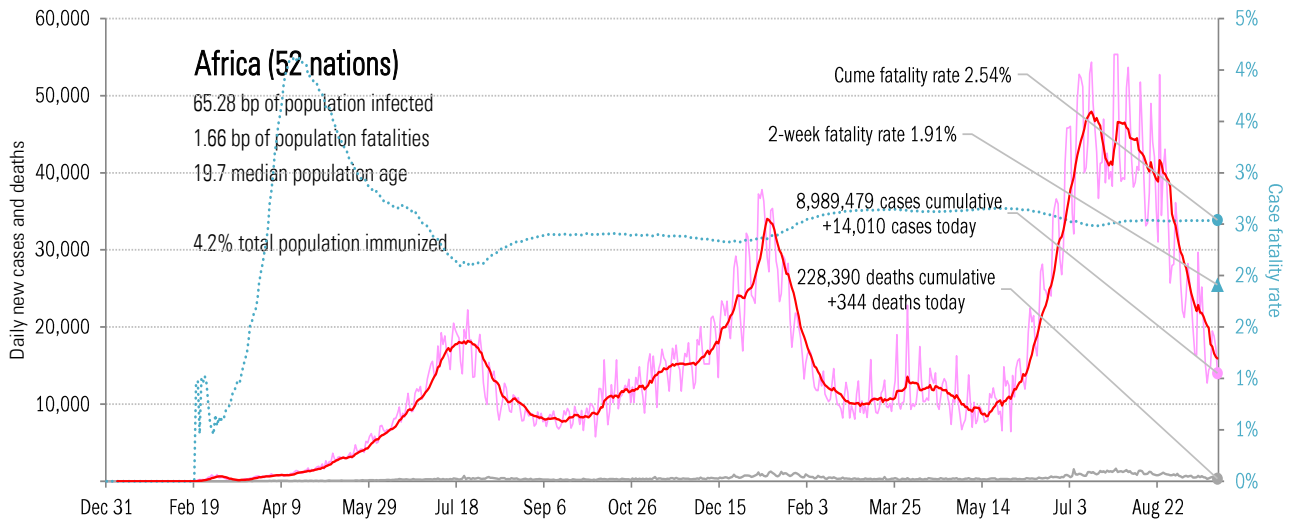
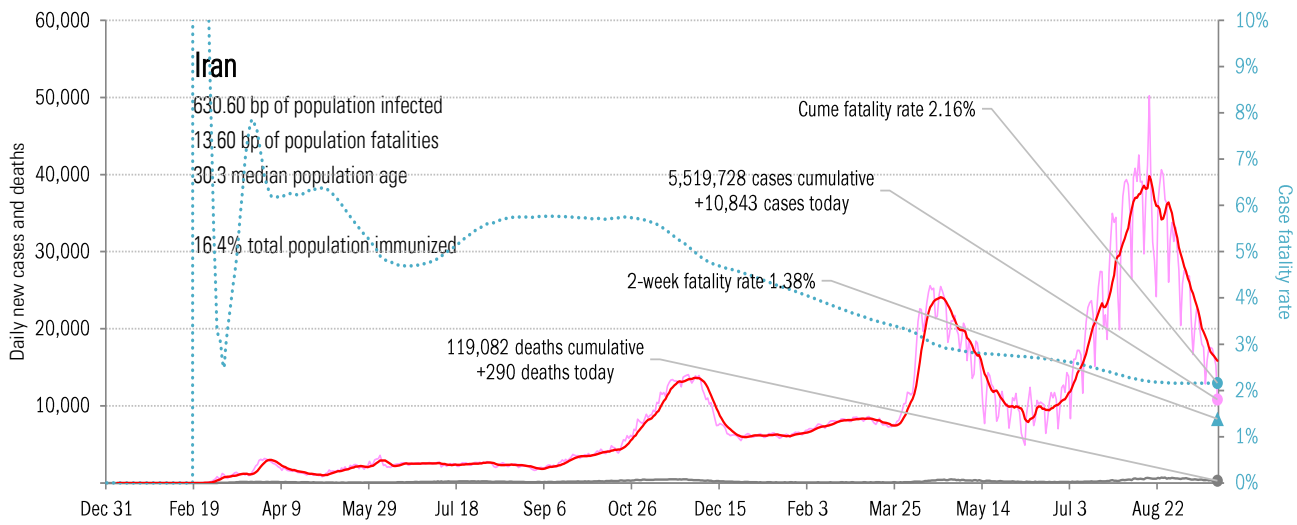
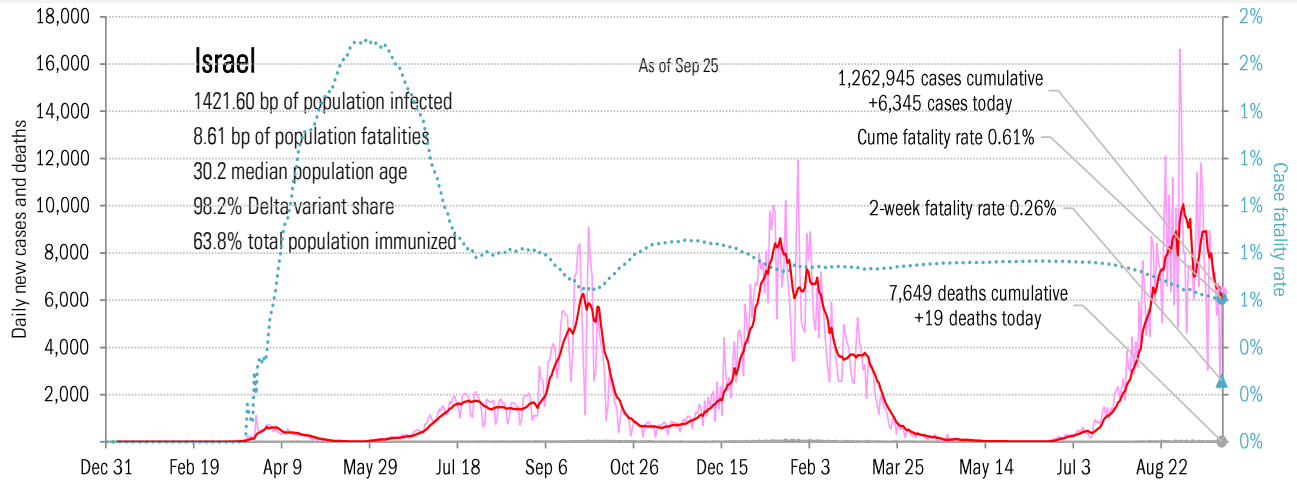
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

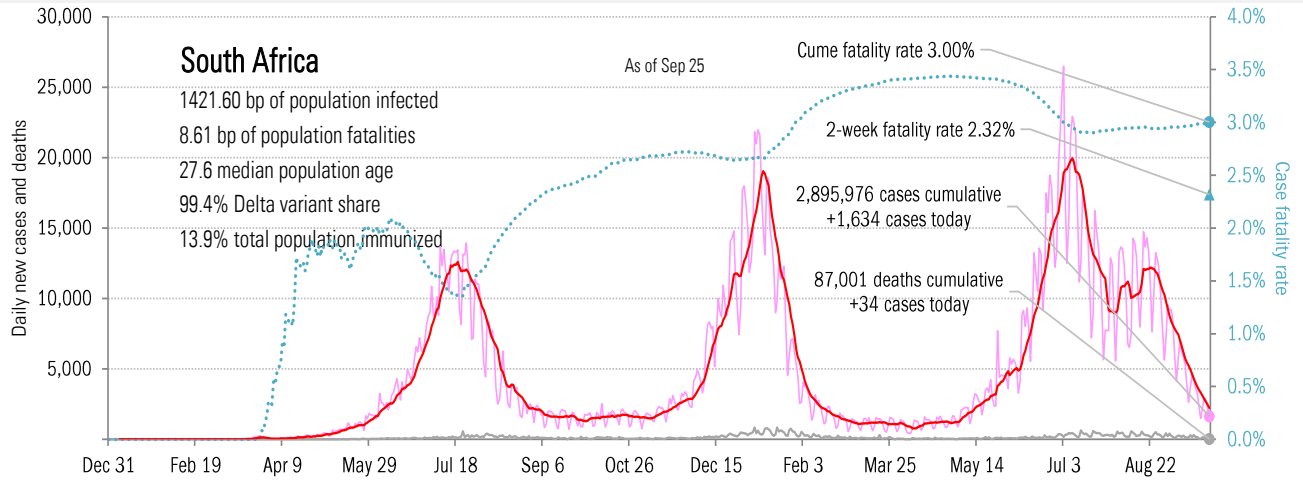
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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