

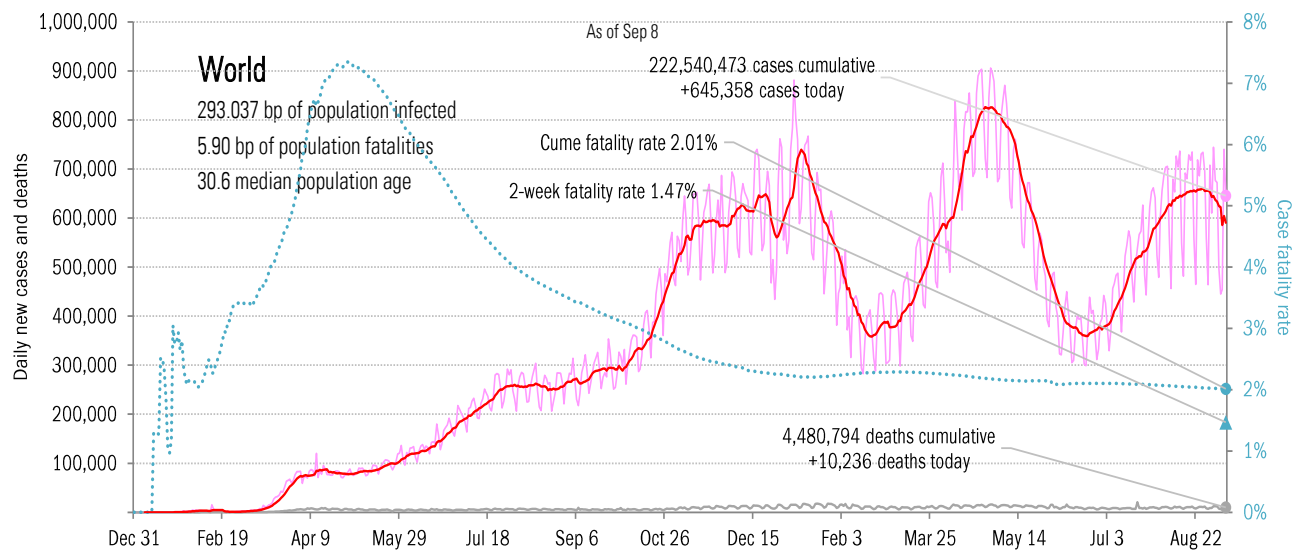
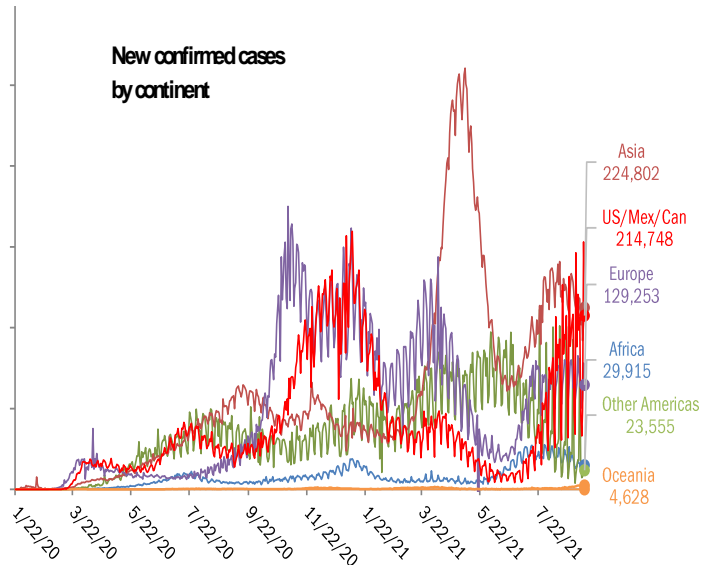
Data Insights: Covid-2019 Monitor

Thursday, September 9, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+195,167	United States	+2,146
India	+43,263	Mexico	+879
United Kingdom	+38,579	Russia	+777
Iran	+26,854	Indonesia	+626
Turkey	+23,914	Iran	+538
Israel	+22,291	Vietnam	+434
Malaysia	+19,733	Malaysia	+361
Russia	+17,673	India	+338
Mexico	+15,876	Brazil	+313
Thailand	+14,176	Turkey	+262
+417,526		+6,674	
World	+645,358	World	+10,236
Top ten	65%	Top ten	65%



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

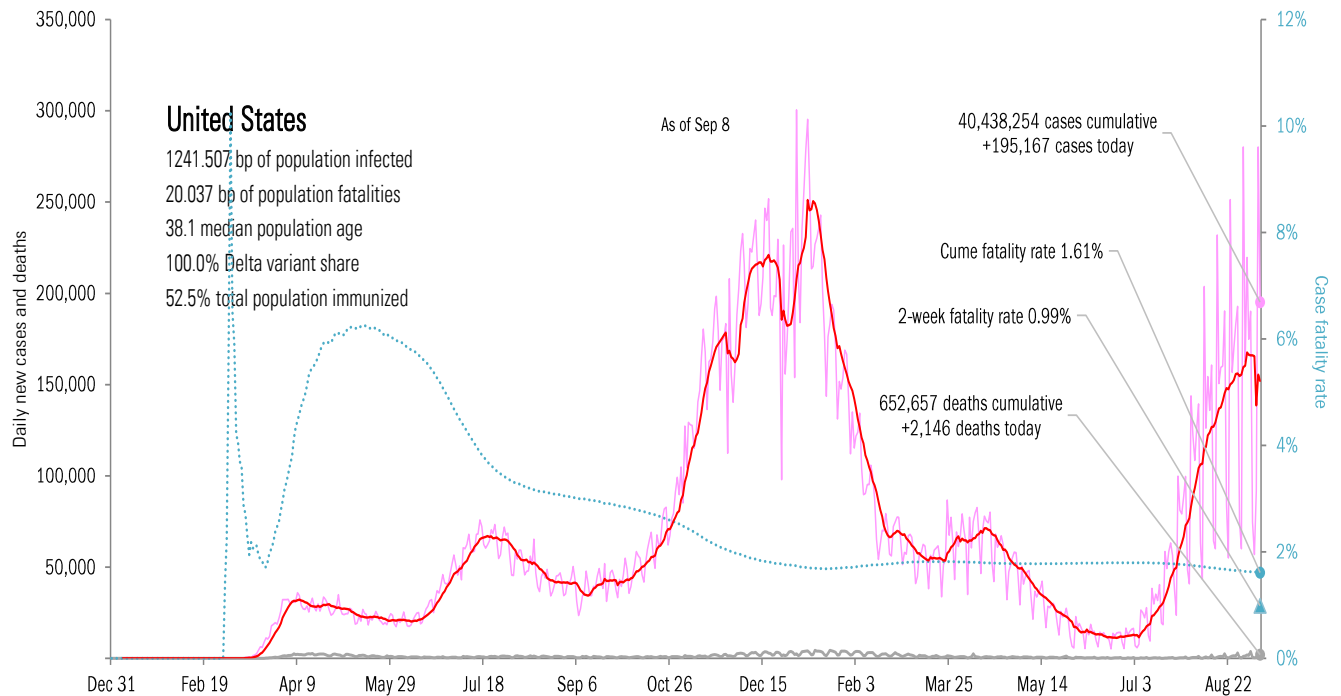
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
TX	+40,882		FL	+301		CH	+71		CA	4,445,862		CA	66,651		TX	332,578		GA	86%	H	725%
FL	+18,457		TX	+289		WI	+29		TX	3,768,545		TX	58,927		FL	288,807		RI	85%	AL	103%
CA	+10,585		CK	+207		MT	+23		FL	3,333,994		NY	54,500		CA	285,104		FL	83%	TX	95%
IA	+8,762		MO	+146		MI	+16		NY	2,313,361		FL	46,496		NY	149,353		MD	83%	GA	95%
GA	+8,752		LA	+136		NJ	+14		IL	1,554,336		PA	28,446		GA	141,065		SC	82%	ID	95%
CH	+6,823		CA	+111		VA	+14		GA	1,468,410		NJ	27,007		CH	100,977		MA	82%	AR	94%
MN	+5,756		MS	+102		ND	+11		PA	1,329,111		IL	26,627		PA	100,022		PA	81%	FL	91%
KS	+5,678		IN	+86		AK	+10		CH	1,268,841		GA	23,392		KY	98,020		KY	80%	MS	90%
TN	+5,422		TN	+83		IA	+6		NC	1,267,333		MI	21,758		IL	94,727		TX	80%	KY	89%
AL	+4,791		AL	+68		NE	+6		TN	1,115,345		CH	21,020		MI	79,196		MO	79%	LA	89%
+115,908			+1,529			+200			21,865,138			374,824			1,669,849						
All states	+195,167		+2,447			-1606			All states	40,438,254		652,657			2,955,566			All states	70%		67%
Top ten	59%		62%			-12%			Top ten	54%		57%			56%			Median	73%		78%

Some states not reporting

Five most improved US states

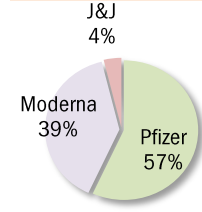
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TN	-33,376	GA	-172	TX	-299	GA	+70 bp
NC	-20,436	CH	-73	FL	-227	FL	+50 bp
GA	-17,192	NC	-60	CA	-219	MT	+40 bp
IN	-10,080	KY	-30	TN	-149	FR	+40 bp
CK	-8,773	AZ	-28	IL	-104	TN	+40 bp



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			
	387,499,710				+0.972 million	US	52.5%	61.7%
Total population	213,032,429	64%	181,585,708	54%	+0.446 million	UK	63.8%	70.8%
Age 12 to 17	12,931,314	54%	10,037,843	42%	+0.080 million	France	61.7%	72.6%
Age 18 to 64	146,821,050	72%	124,203,679	61%	+0.327 million	Spain	73.6%	78.9%
Age 65 and over	52,246,617	96%	46,501,536	85%	+0.039 million	Germany	61.1%	65.4%
						Italy	62.6%	71.9%
						Australia	31.0%	51.4%
						Israel	62.7%	68.4%
						Canada	67.7%	74.0%
						Japan	49.2%	61.2%
						Africa	3.2%	5.5%
						India	11.8%	38.5%
						Brazil	31.5%	65.1%
						China	67.2%	75.8%



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



Every American >18 immune in **105 days** by Dec 21, 2021
 66.1% of population >18 immunized
 13.8% previously tested positive
79.9% vs 60% adult herd immunity

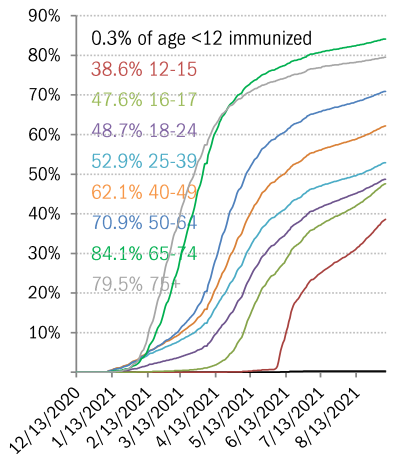
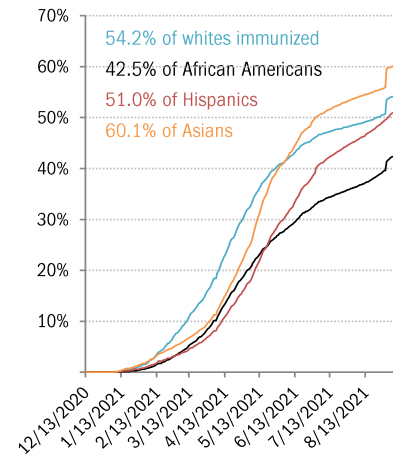
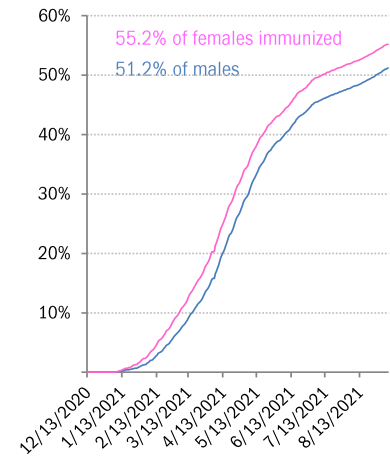
AK
55.2%
48.0%

WI
59.4%
54.6%

ME
72.3%
66.5%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
68.9%	45.0%	52.9%	49.0%	62.3%	66.8%	55.6%	68.5%	76.6%	67.8%	
60.9%	39.7%	46.8%	42.2%	56.6%	51.8%	50.9%	61.1%	68.3%	60.3%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
64.8%	58.8%	46.3%	57.1%	56.8%	50.7%	53.0%	70.2%	70.7%	76.0%	
58.7%	48.7%	39.6%	49.8%	52.4%	46.7%	48.9%	55.9%	62.3%	66.5%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
69.7%	57.1%	64.0%	58.1%	53.3%	58.2%	47.3%	66.1%	68.9%	74.3%	72.7%
56.7%	48.3%	57.6%	52.8%	45.9%	49.5%	39.8%	58.0%	62.2%	66.7%	65.7%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	57.6%	70.7%	58.1%	54.1%	50.7%	56.8%	52.8%	68.4%	64.7%	
	49.3%	60.8%	49.1%	42.9%	42.8%	47.2%	44.4%	58.1%	56.0%	
			OK	LA	MS	AL	GA			
			54.4%	50.2%	47.7%	50.8%	52.7%			
			44.9%	42.6%	39.6%	39.5%	42.8%			
			TX					FL		PR
			57.9%					64.9%		76.1%
			48.5%					54.3%		64.8%

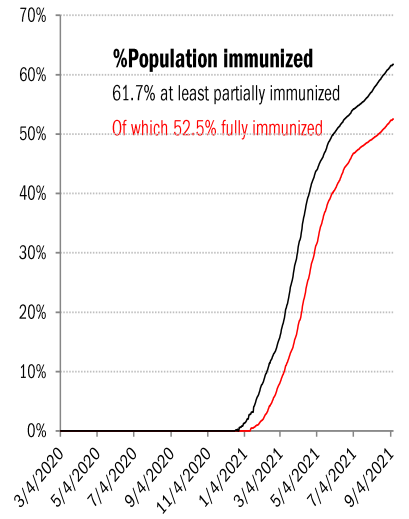
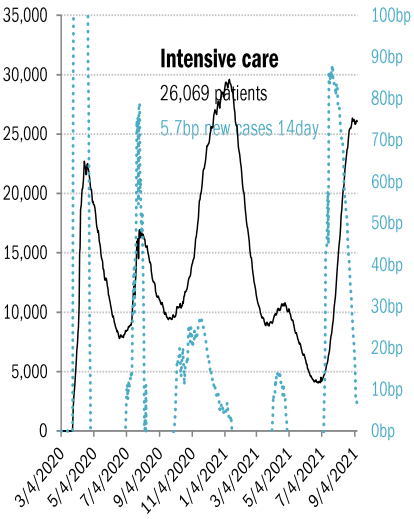
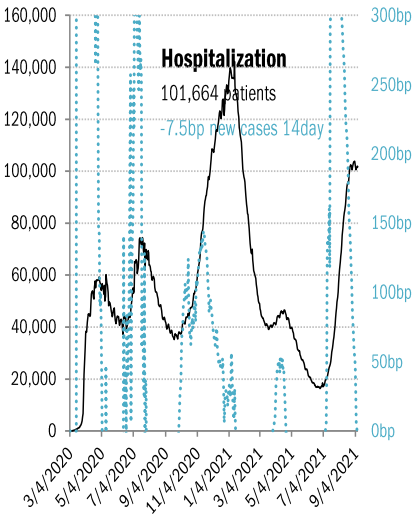
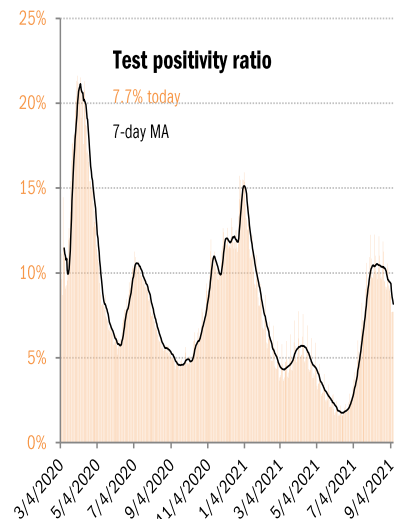
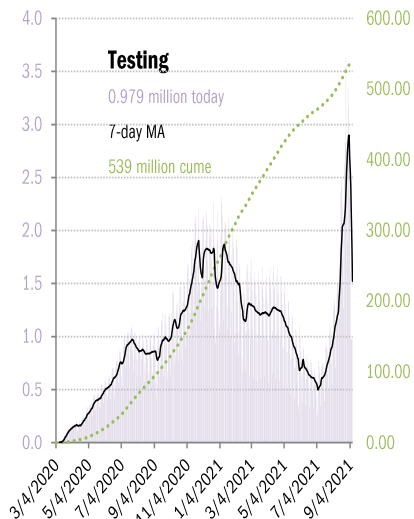
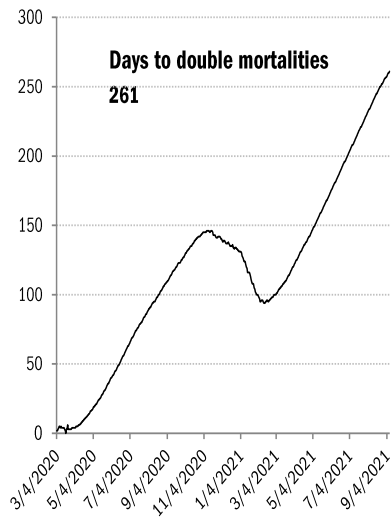
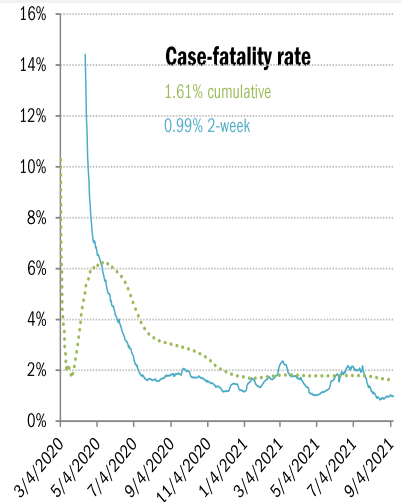
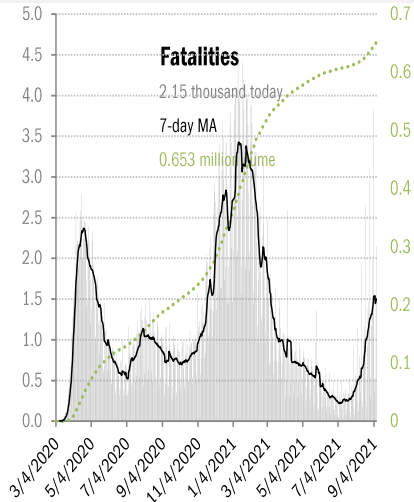
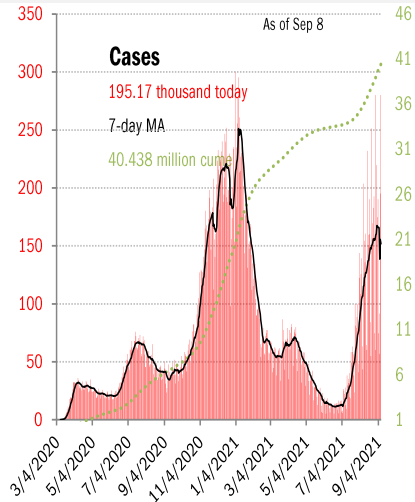
The demographics of US vaccination



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

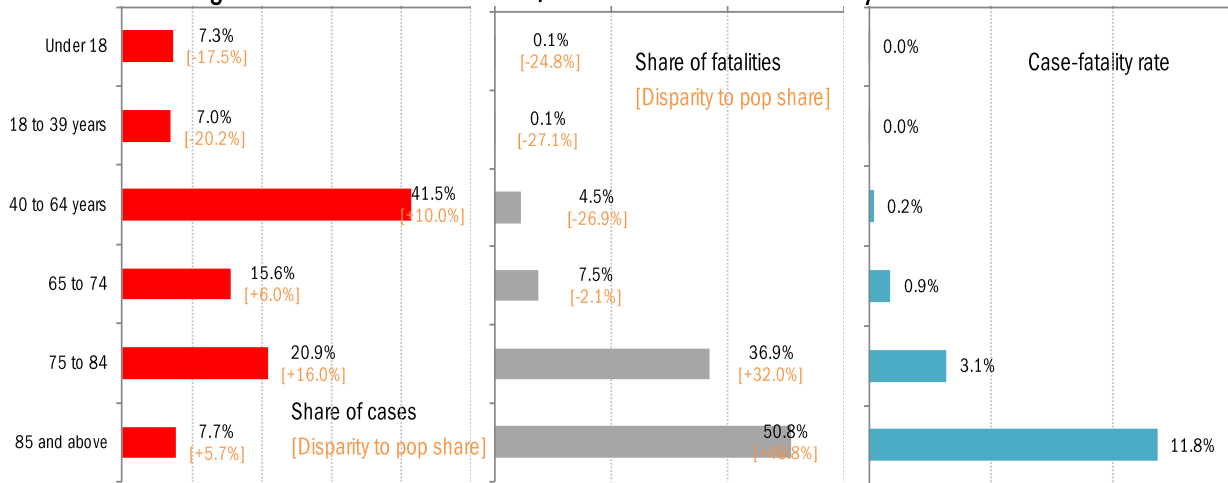
US deep-dive

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

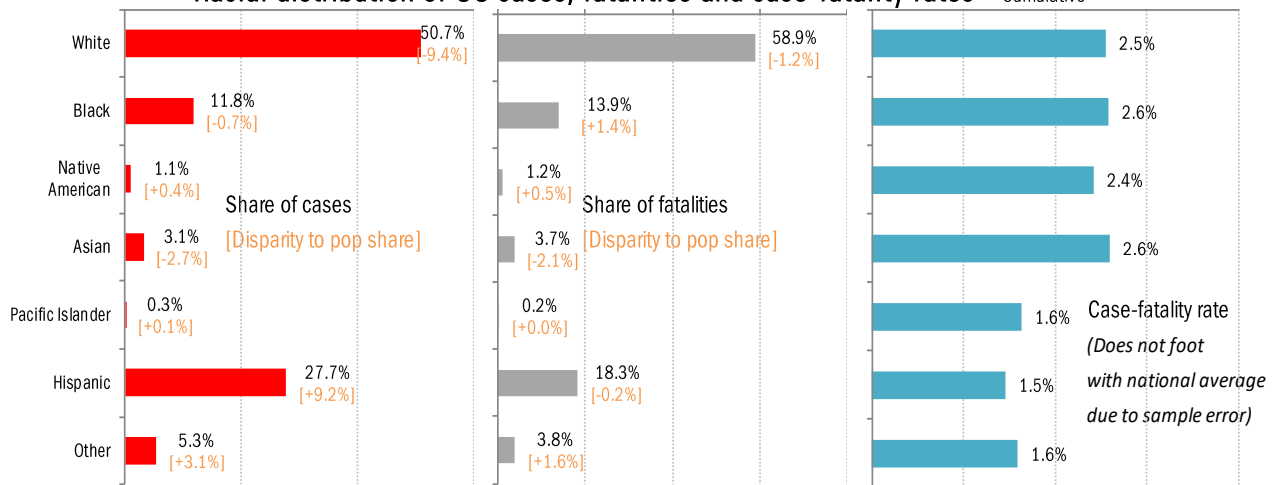


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

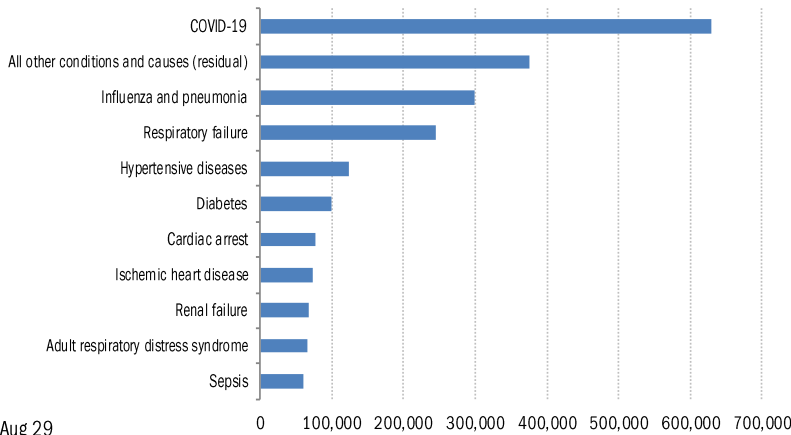


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Aug 29

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

[The 'mu' COVID-19 variant has reached Dallas County. Here are 5 things to know.](#)

Catherine Marfin
Dallas Morning News
September 8, 2021

[New Details Emerge About Coronavirus Research At Chinese Lab](#)

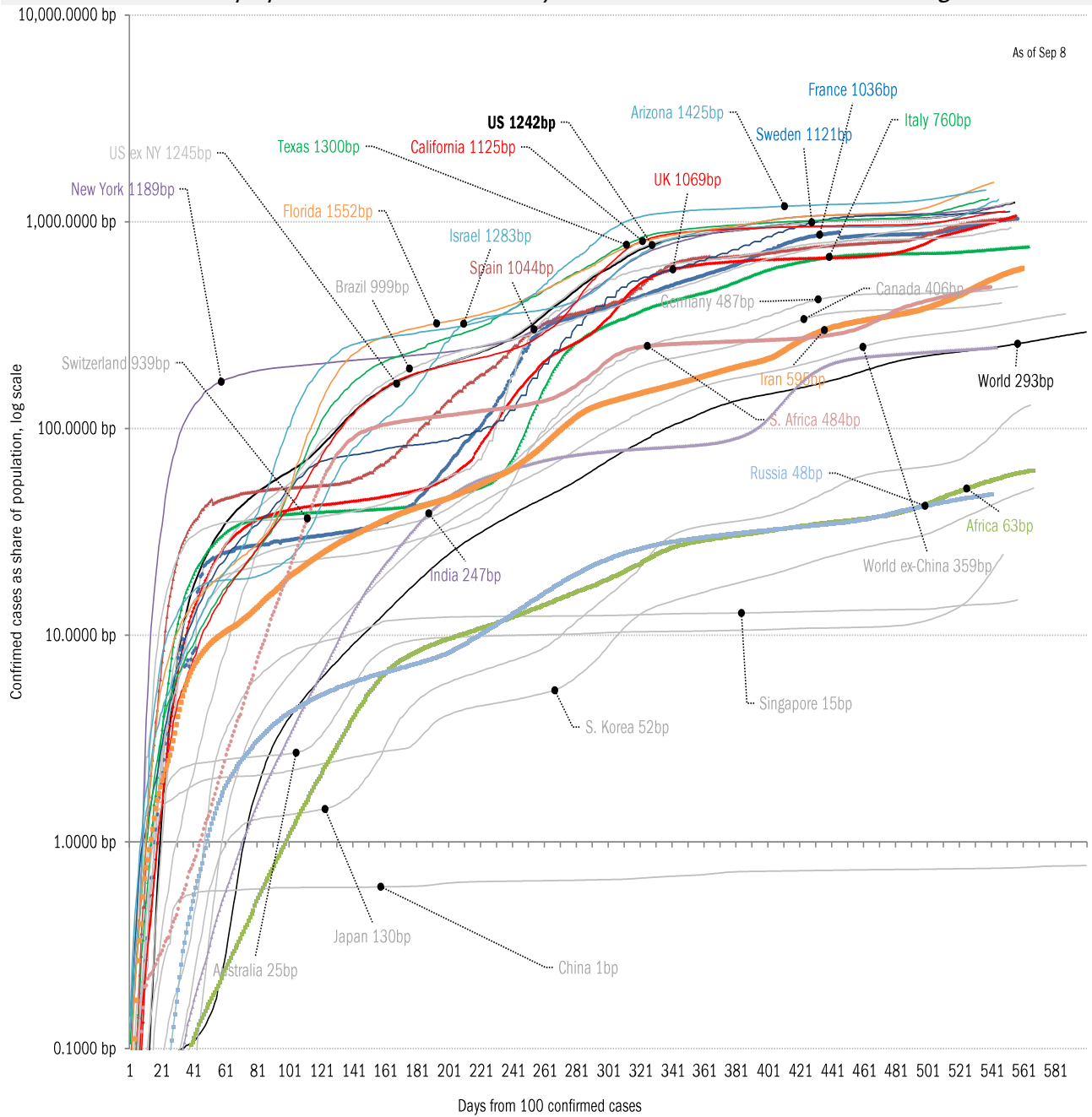
Sharon Lerner, Mara Hvistendahl
The Intercept
September 6, 2021

Meme of the day



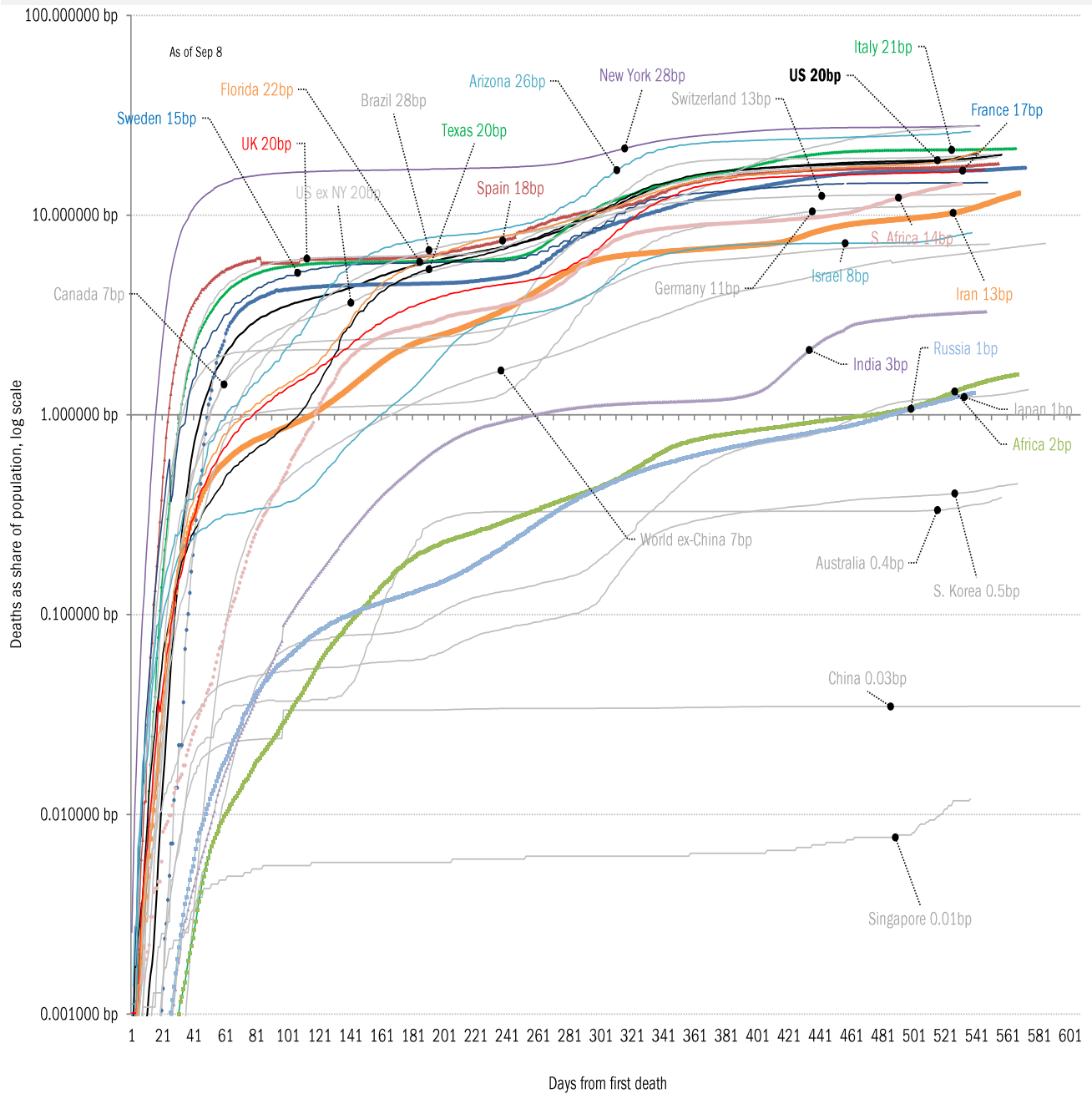
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

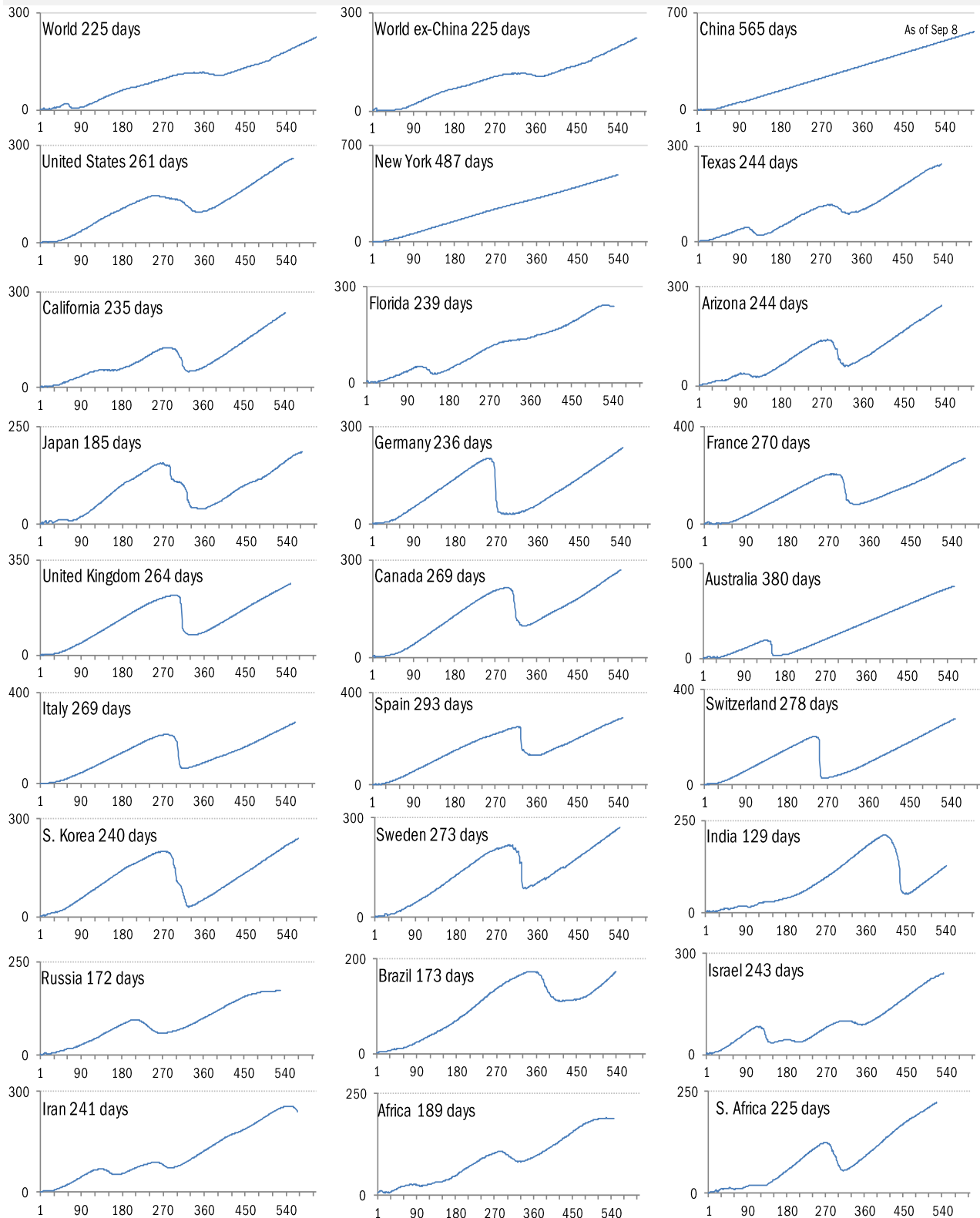


Source: [Johns Hopkins](#), TrendMacro calculations

"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

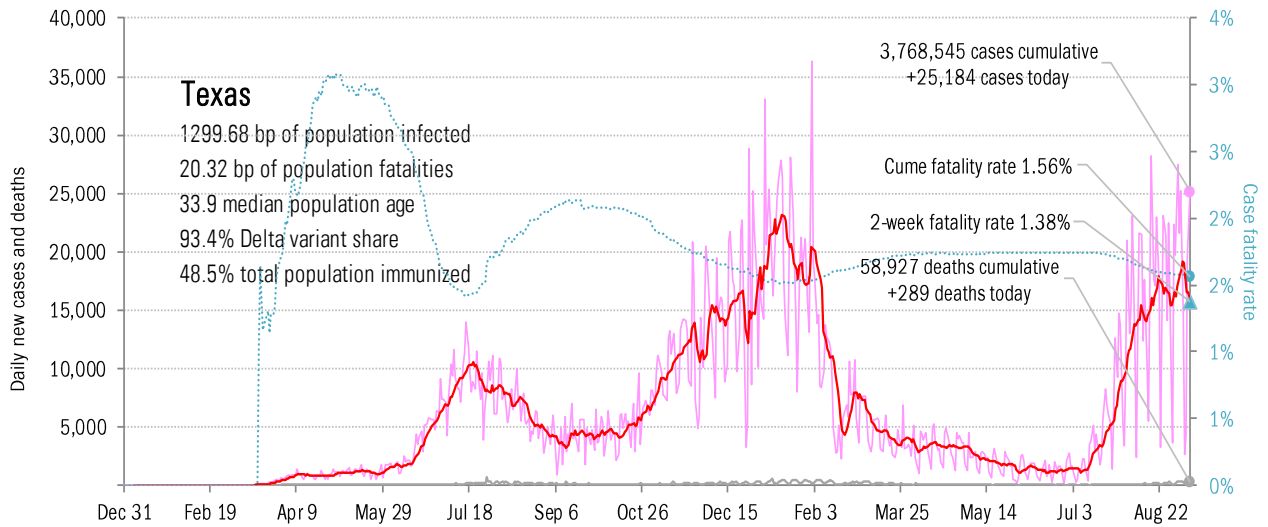
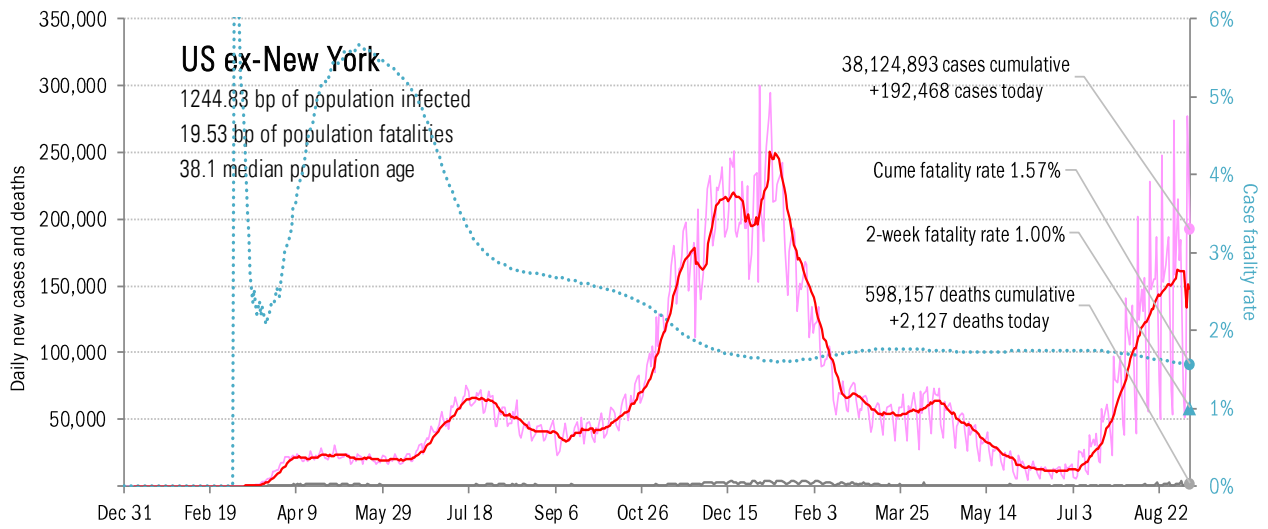
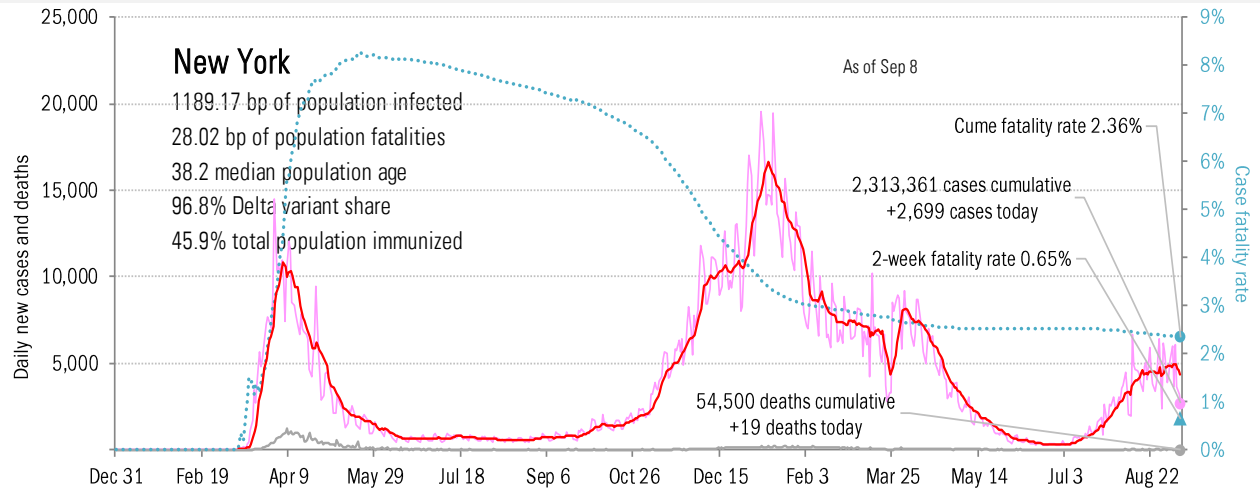
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

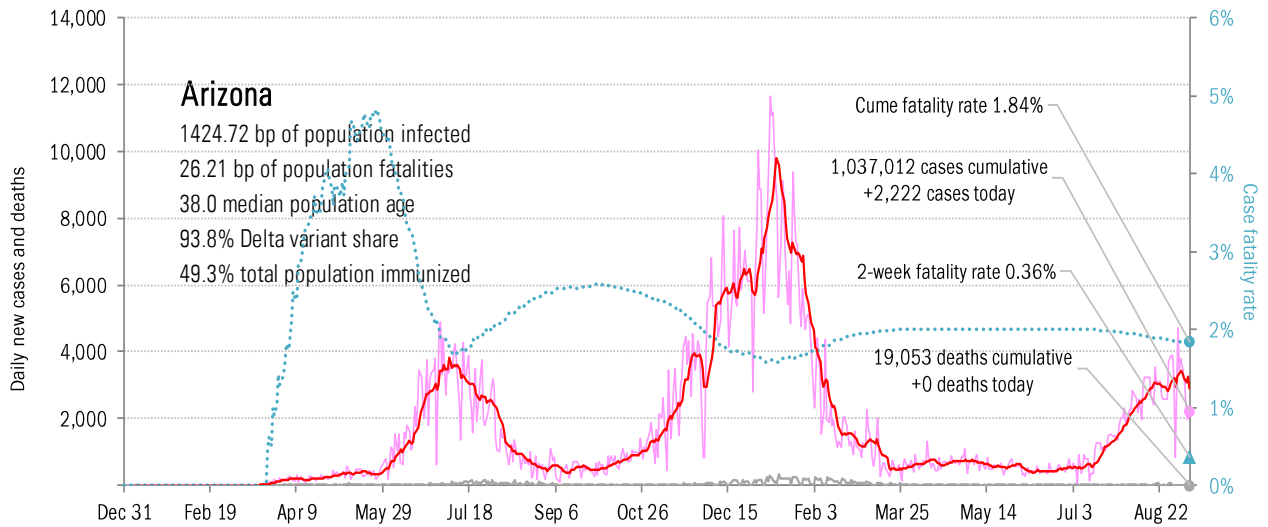
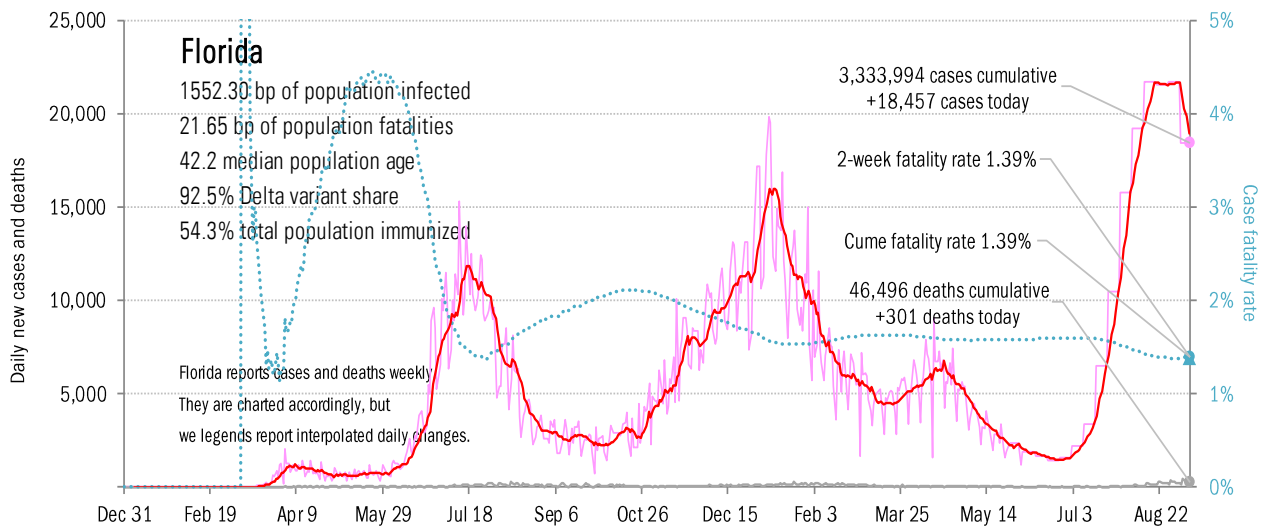
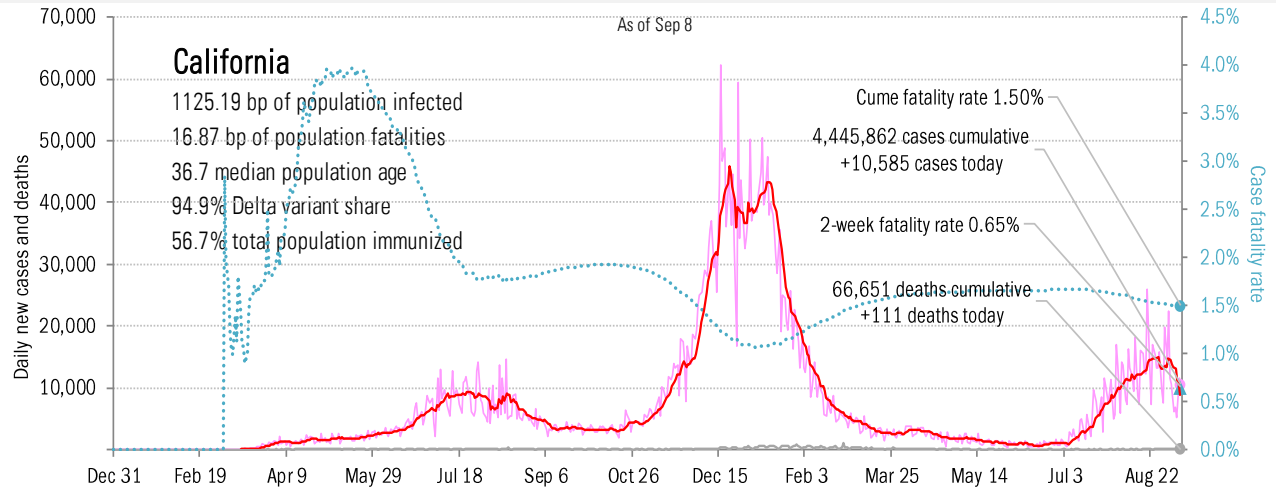
Cases: 7-day average and daily Deaths: Daily



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

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

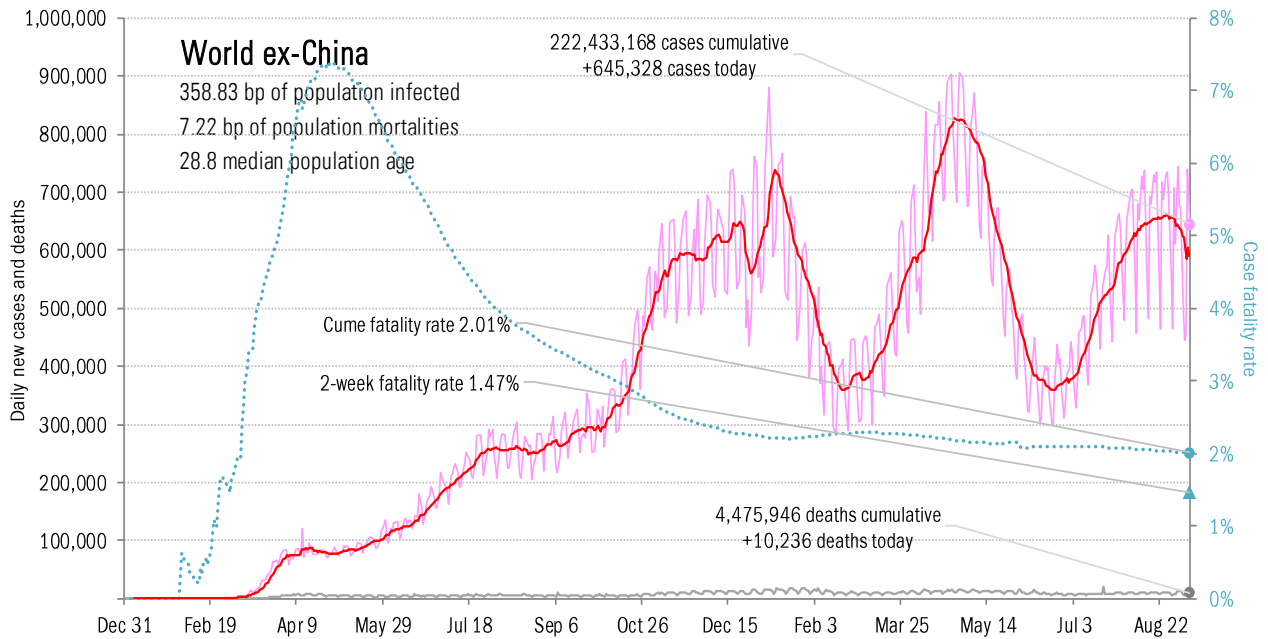
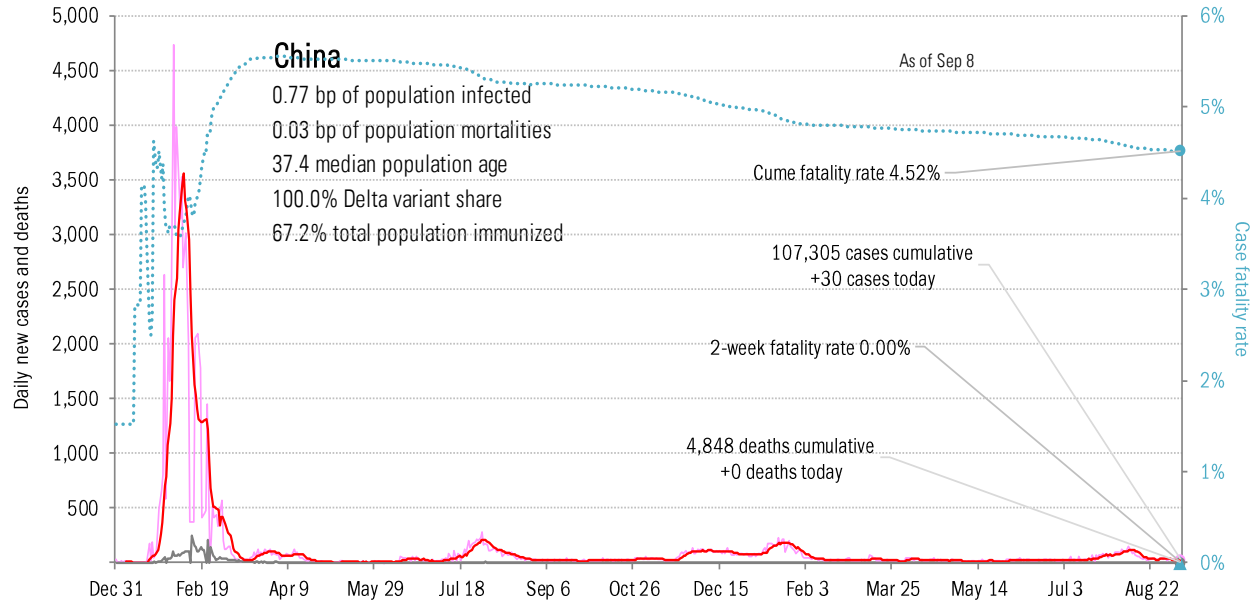
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

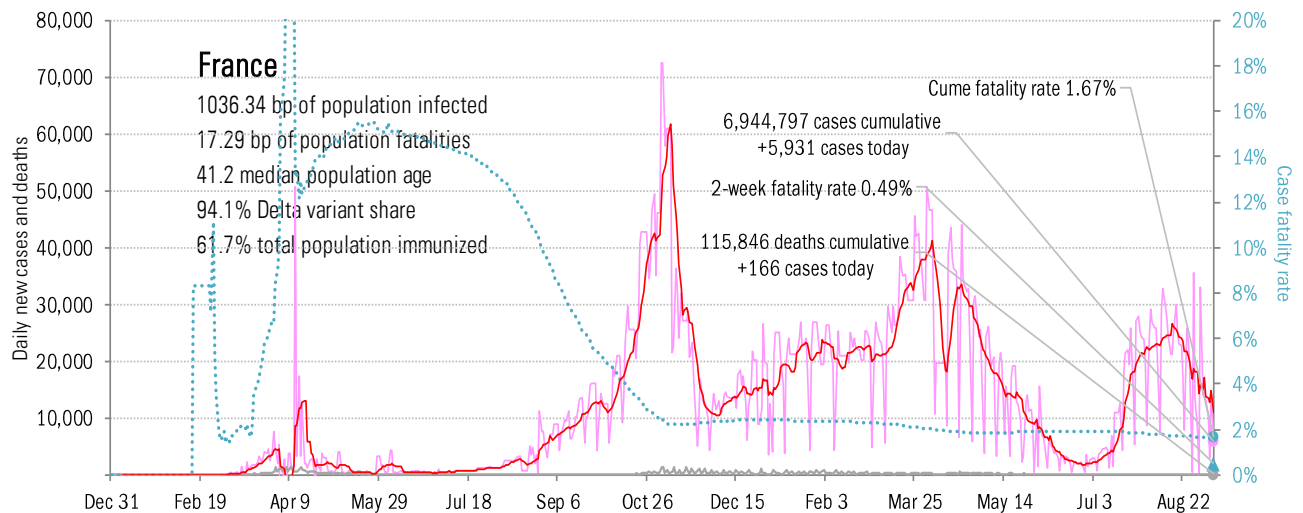
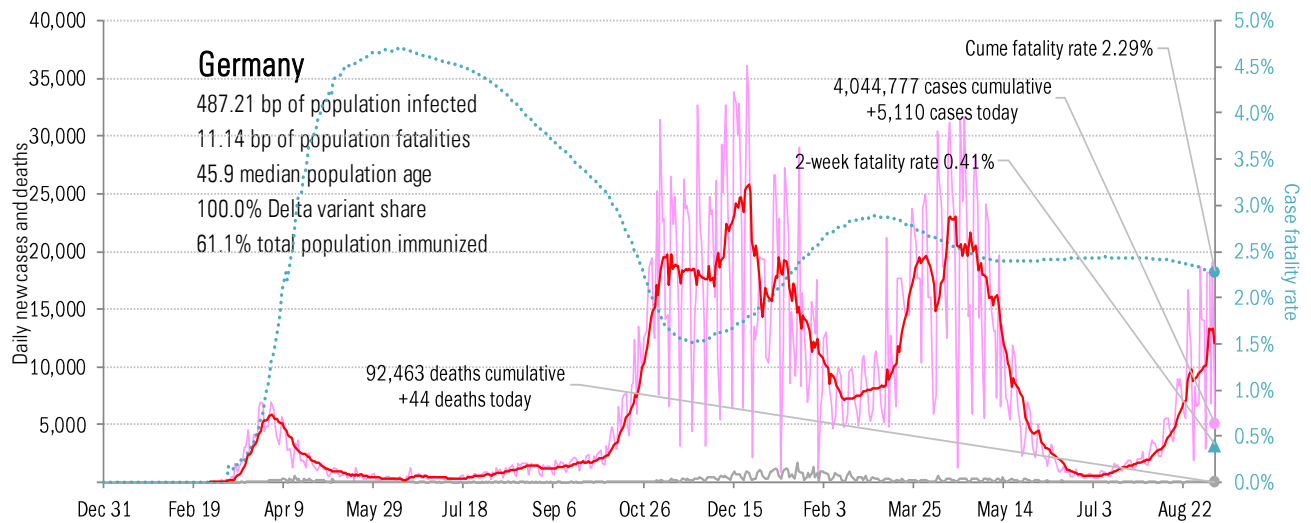
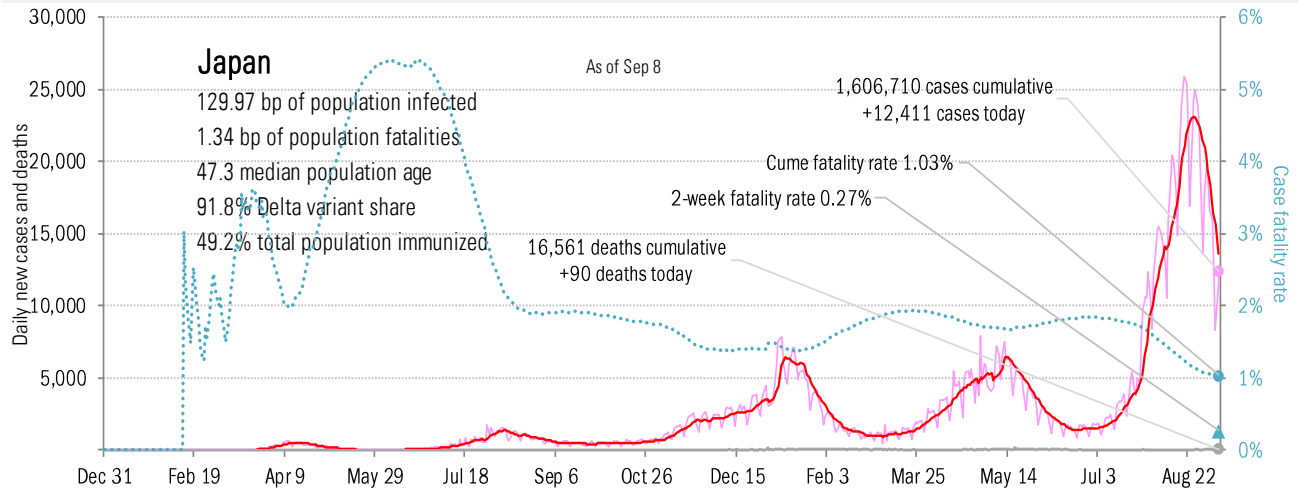
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

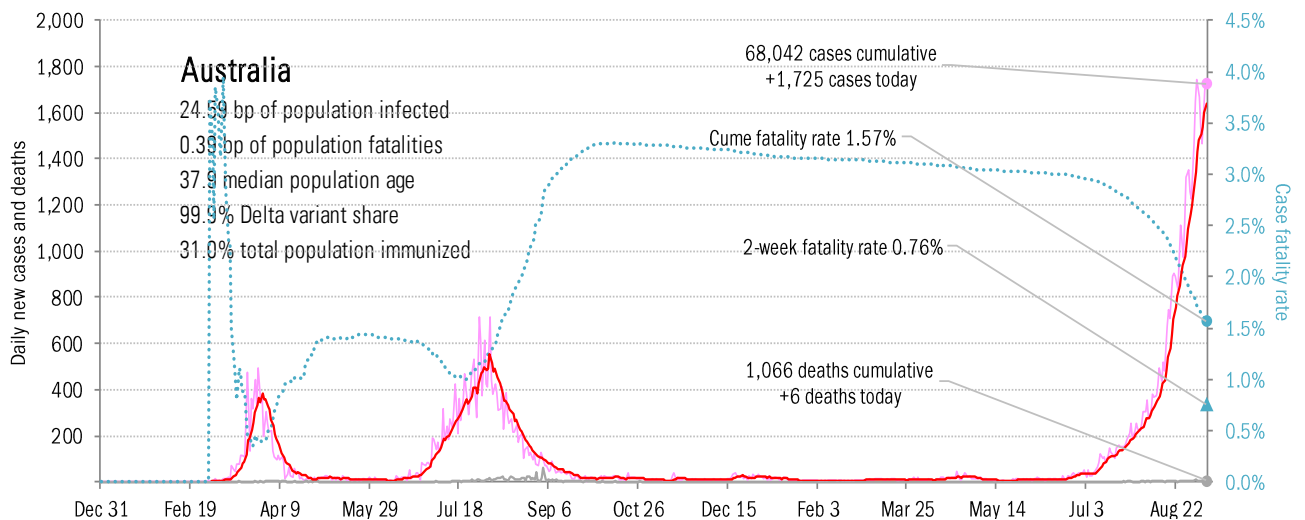
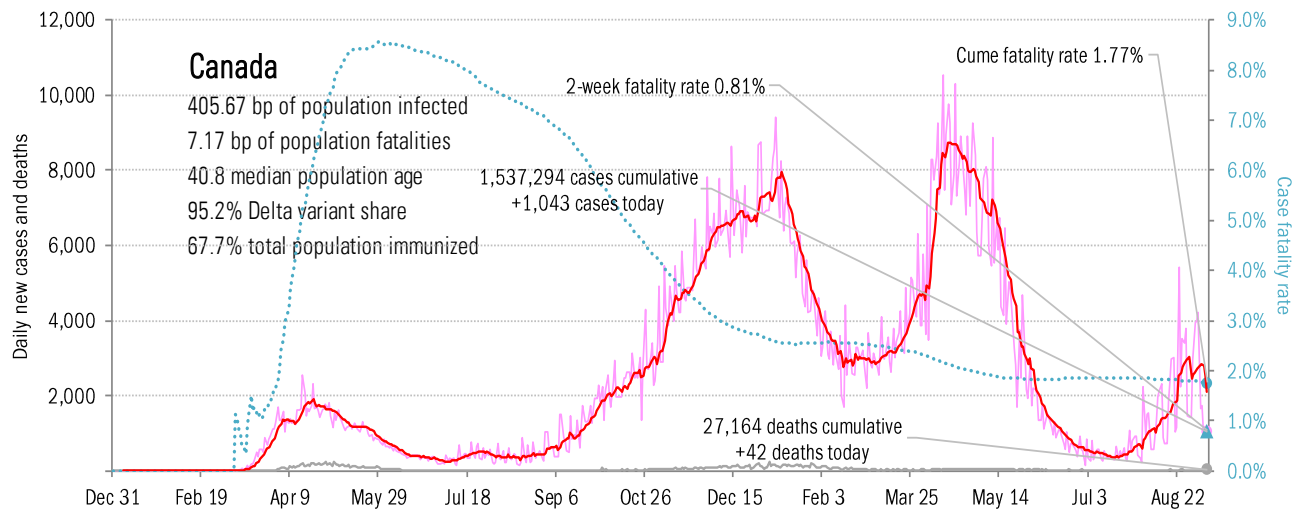
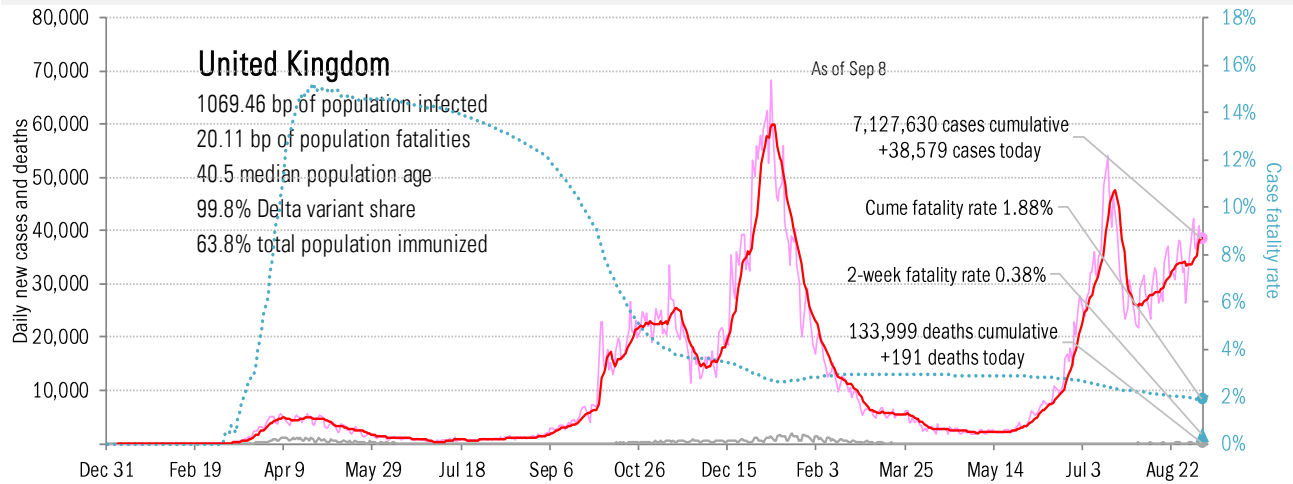
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

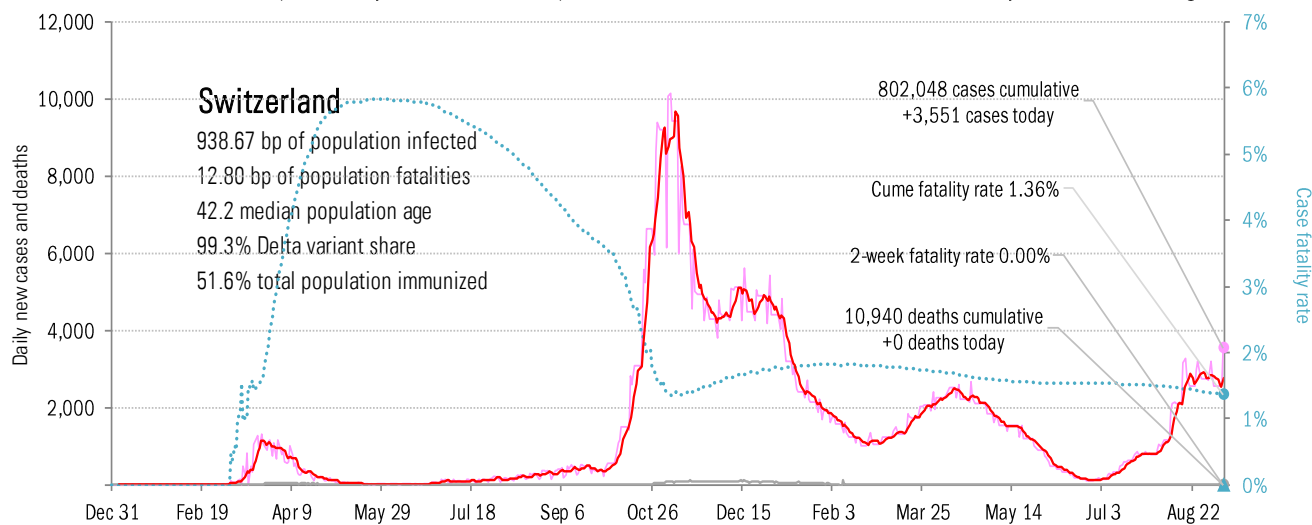
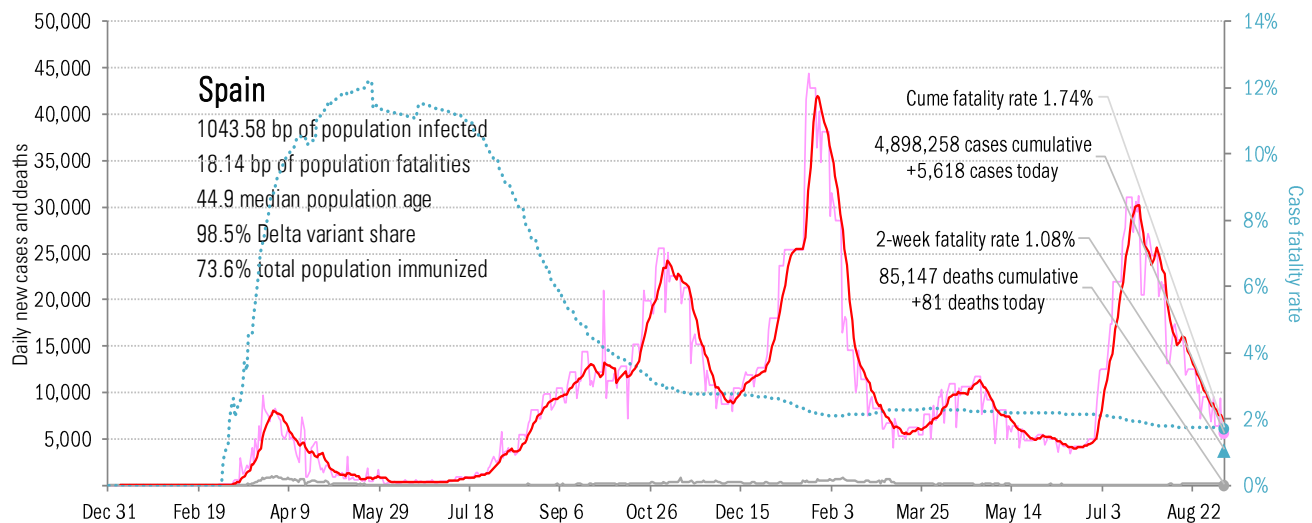
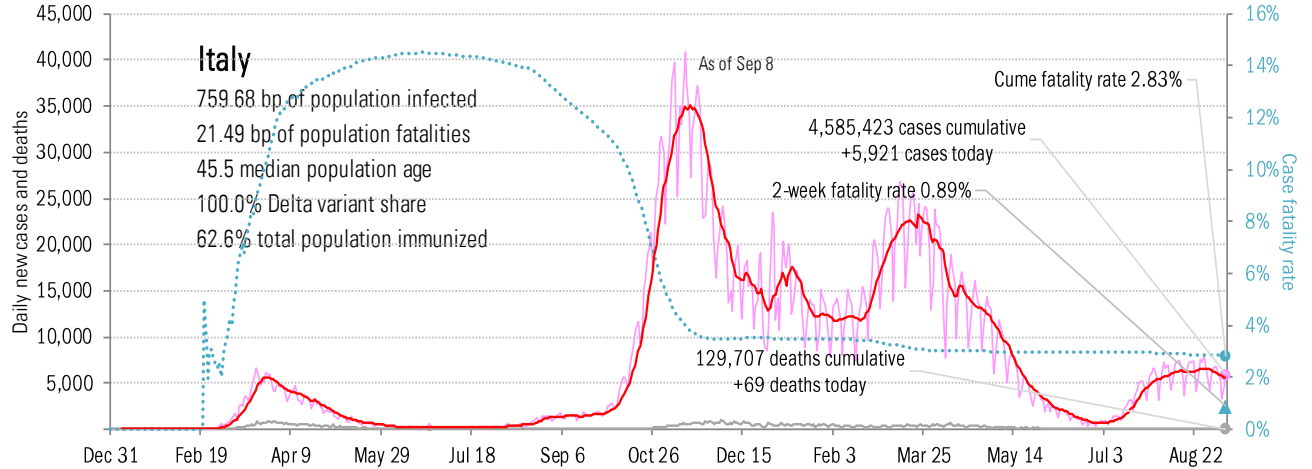
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

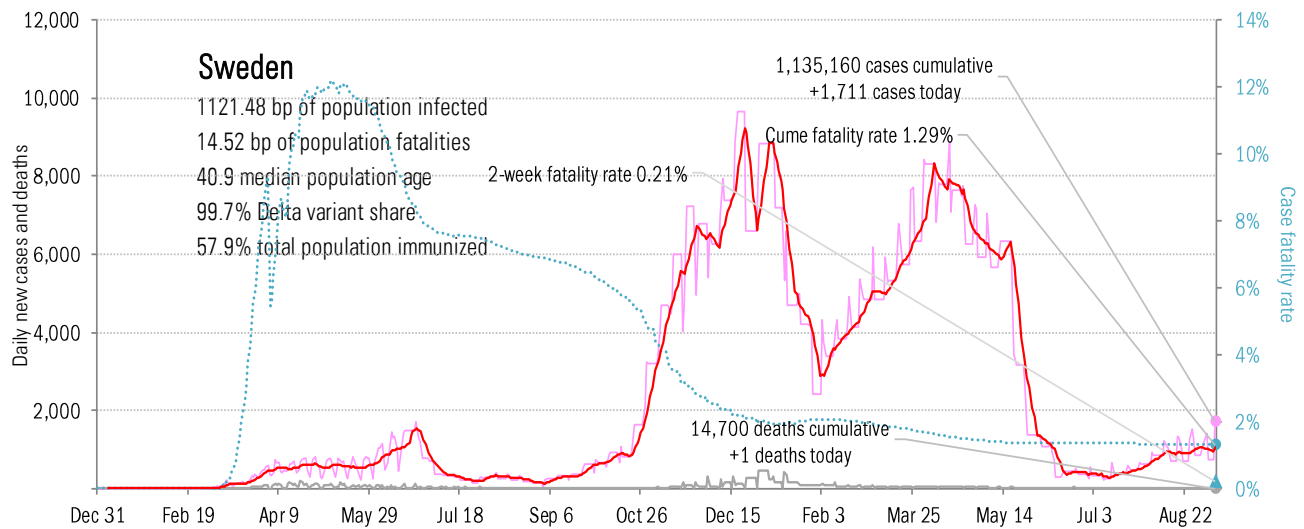
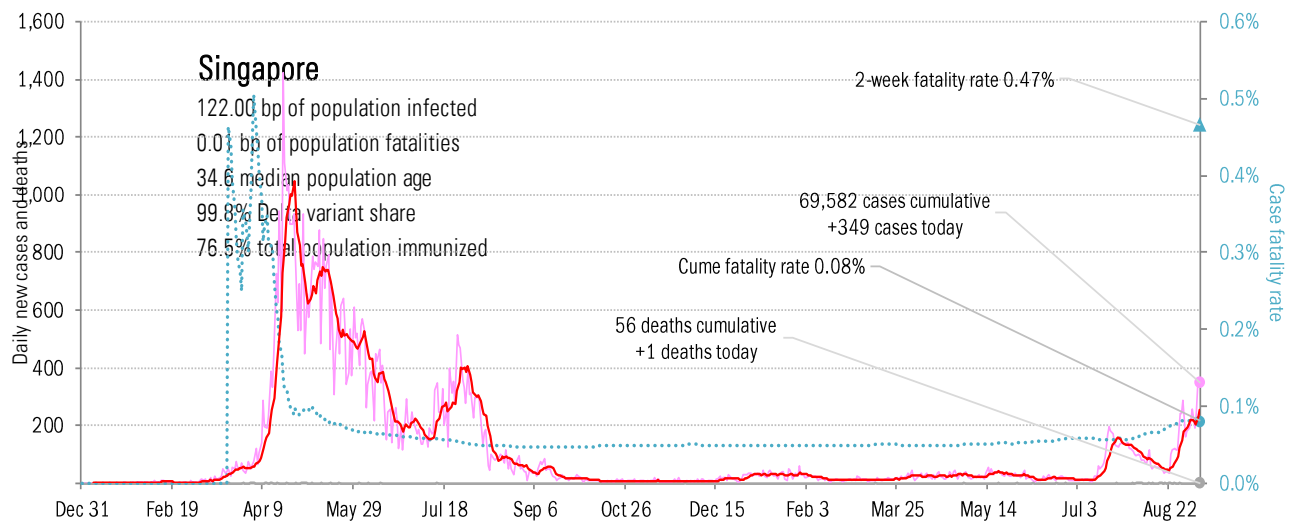
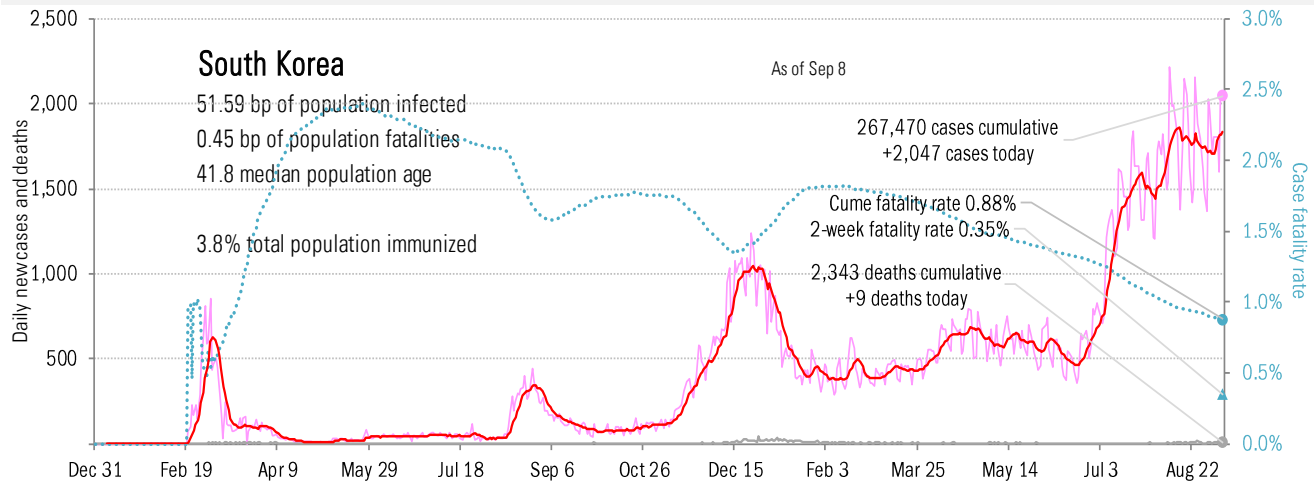
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

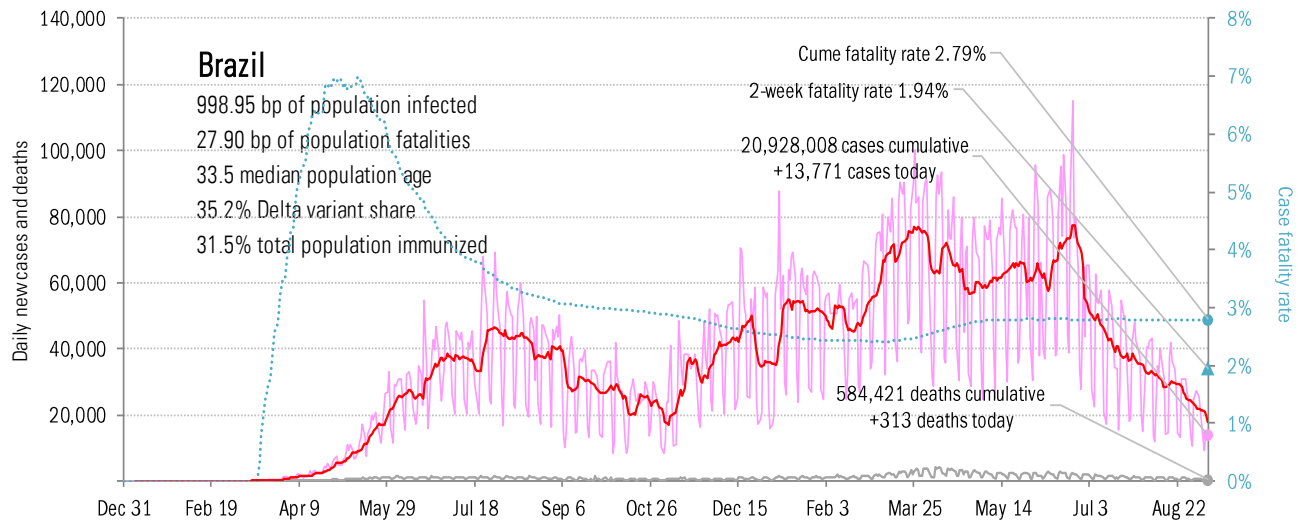
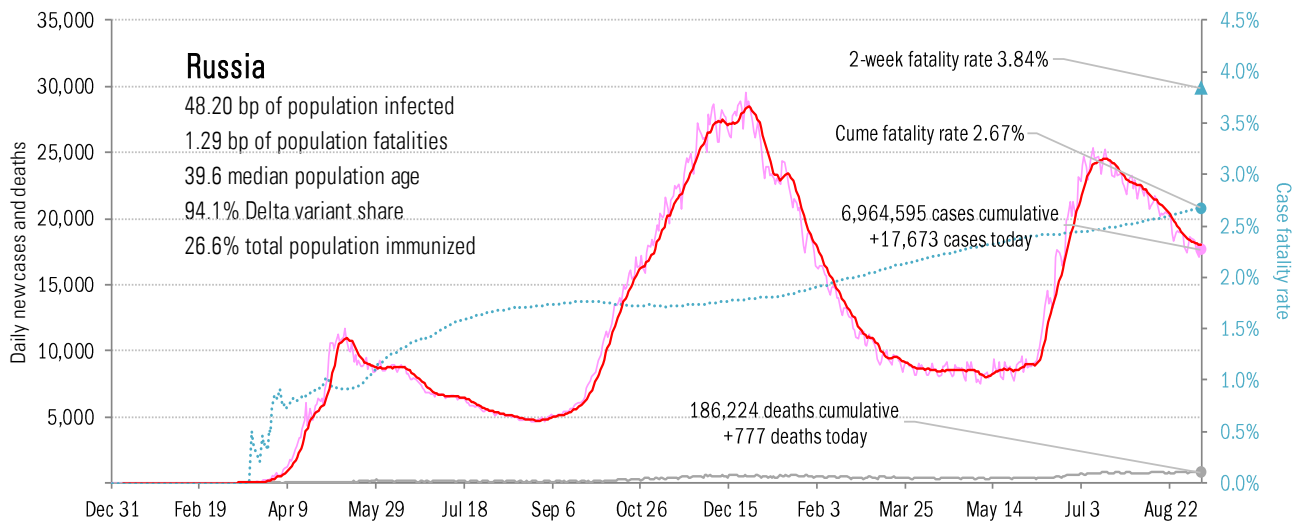
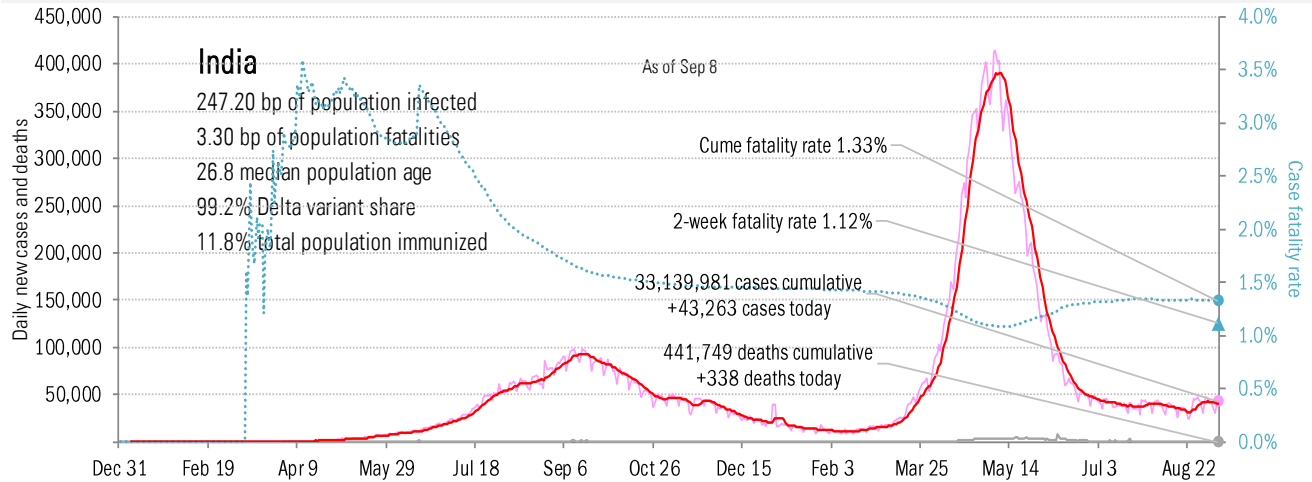
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

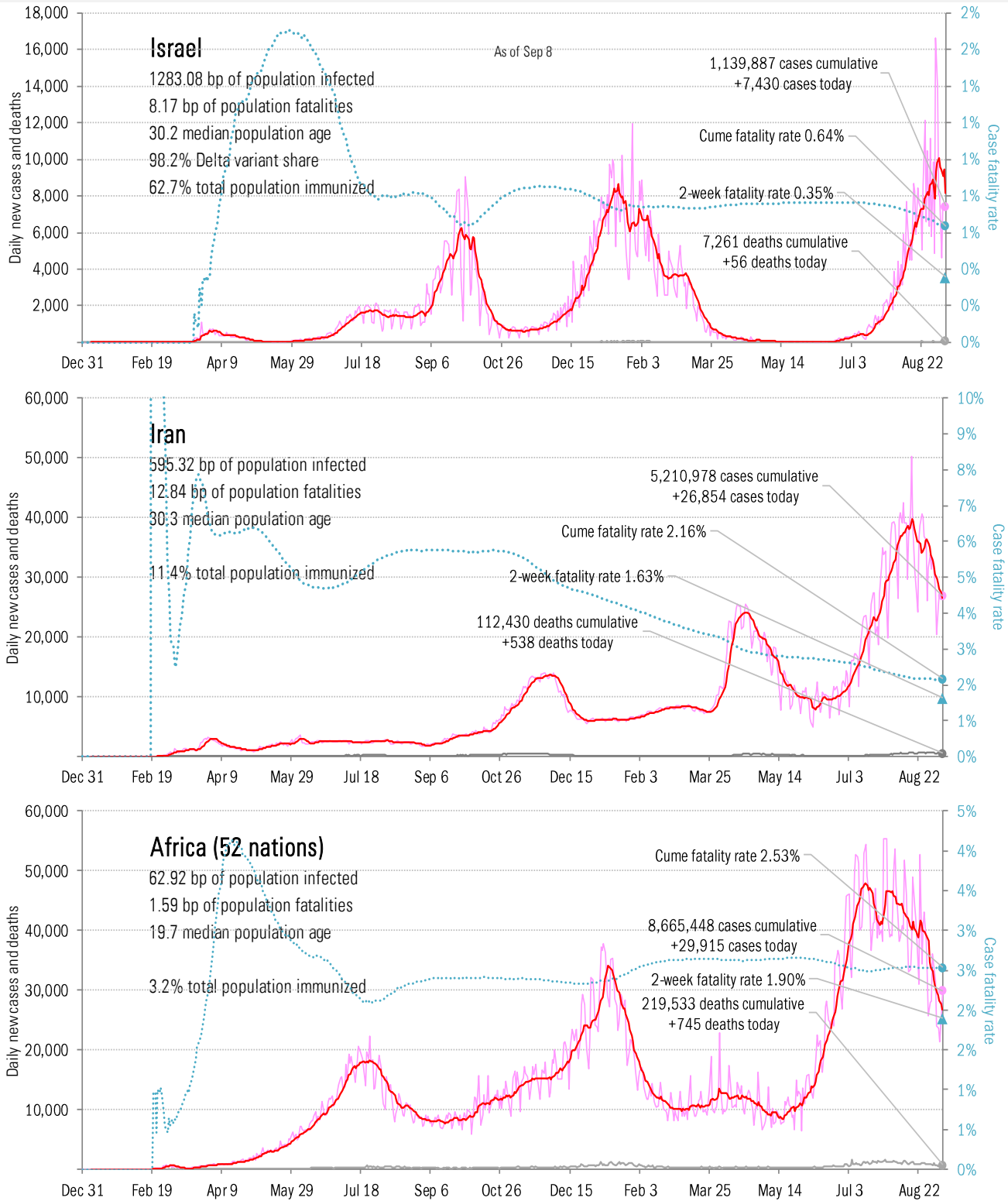
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

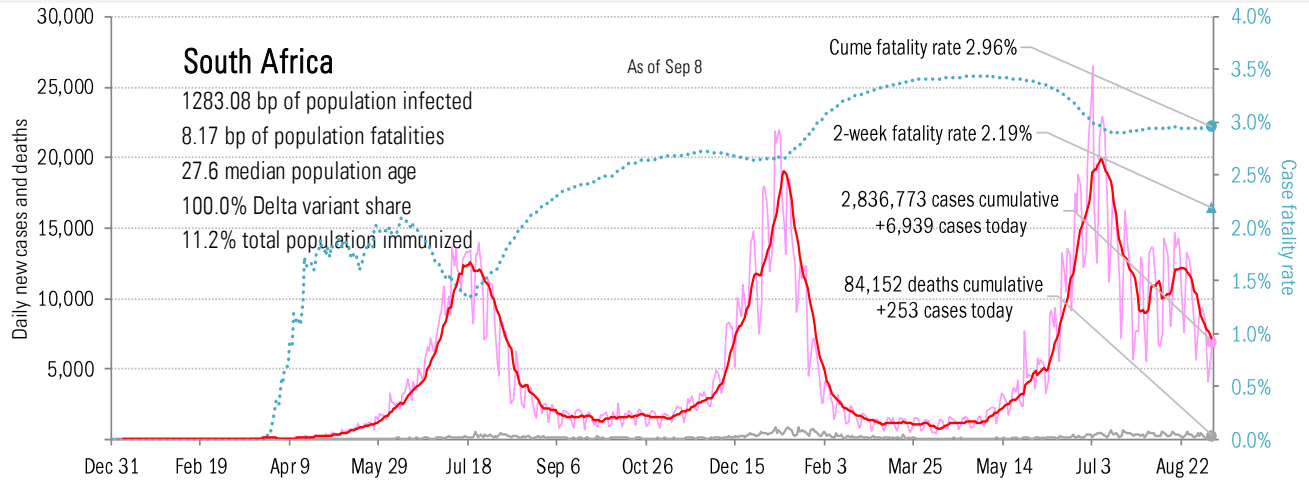
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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