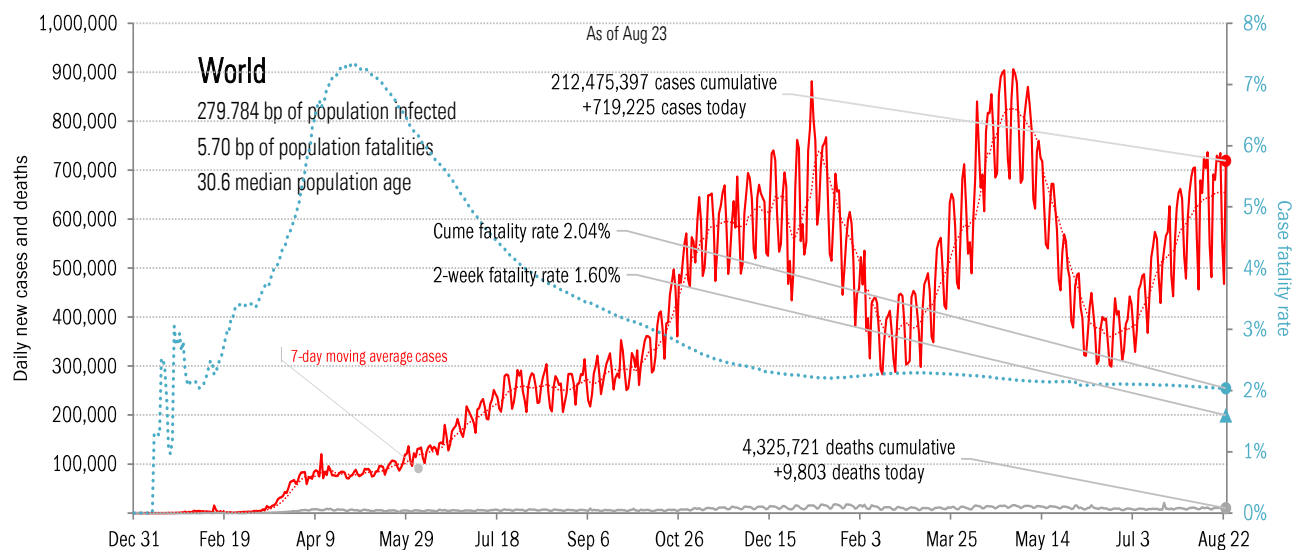
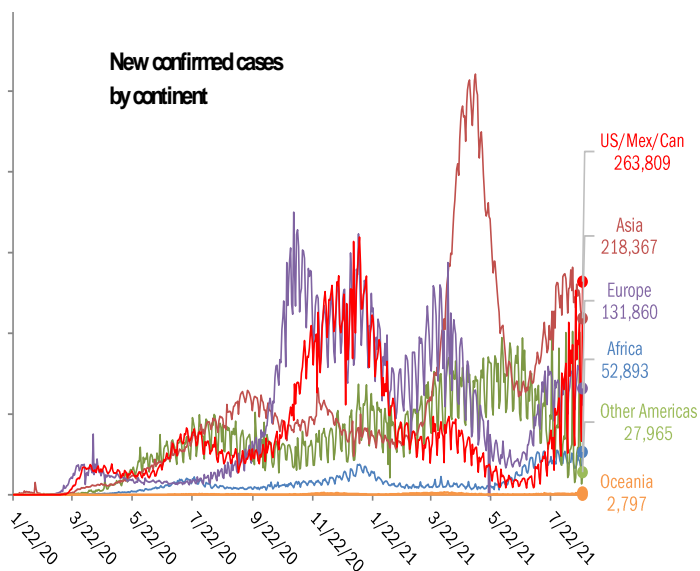


Data Insights: Covid-2019 Monitor

Tuesday, August 24, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+251,365	Kazakhstan	+930
Iran	+38,657	United States	+908
United Kingdom	+31,856	Indonesia	+842
India	+25,467	Russia	+765
Spain	+23,899	Iran	+610
Uganda	+21,324	Vietnam	+389
Russia	+18,875	France	+385
Turkey	+18,857	Mexico	+371
Philippines	+18,011	India	+354
Malaysia	+17,672	Brazil	+321
+465,983		+5,875	
World	+719,225	World	+9,803
Top ten	65%	Top ten	60%



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

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

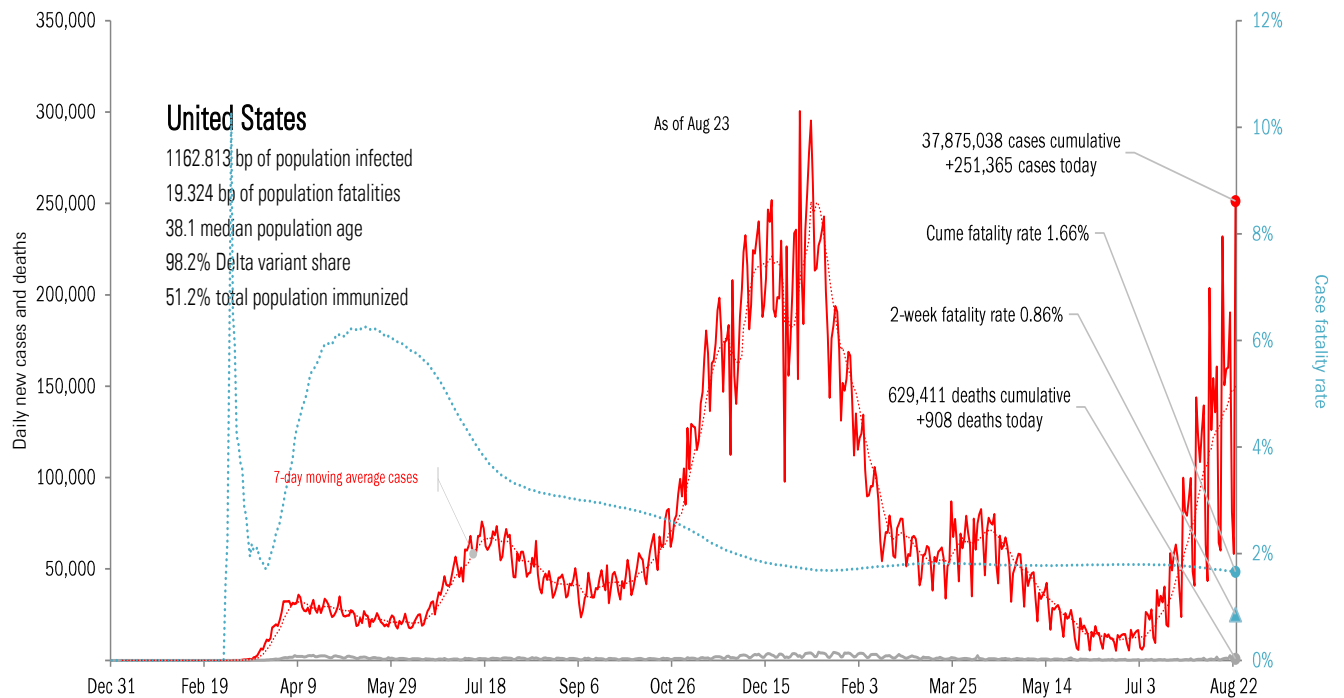
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
FL	+21,534		FL	+259		GA	+342		CA	4,251,704		CA	65,170		TX	307,268		GA	90%	MS	62%
GA	+21,072		SC	+101		TX	+170		TX	3,476,394		TX	55,346		CA	271,243		FL	86%	AL	56%
TN	+20,249		GA	+64		CA	+78		FL	3,006,886		NY	54,054		FL	262,685		MD	84%	FL	53%
CA	+17,005		TX	+63		NC	+57		NY	2,241,468		FL	41,876		NY	144,500		RI	83%	GA	53%
NC	+16,924		TN	+62		IN	+56		IL	1,491,582		PA	28,076		GA	129,801		MO	82%	AR	49%
TX	+14,060		NC	+61		KY	+45		GA	1,328,156		NJ	26,755		PA	96,405		NV	82%	LA	49%
SC	+13,830		LA	+59		MI	+38		PA	1,274,337		IL	26,194		CH	94,888		TX	81%	TX	46%
LA	+10,889		MS	+56		NJ	+38		CH	1,183,761		GA	22,263		IL	90,365		MA	81%	OK	46%
IL	+9,213		IL	+44		SC	+36		NC	1,161,818		MI	21,405		KY	89,651		SC	81%	ID	42%
KY	+8,601		KY	+41		IL	+30		NJ	1,075,930		CH	20,689		MI	76,787		CT	80%	MO	40%
+153,377			+810			+890			20,492,036			361,828			1,563,593						
All states	+251,365		+1,167			+782			All states	37,875,038		629,411			2,766,680			All states	70%	67%	
Top ten	61%		69%			114%			Top ten	54%		58%			57%			Median	72%	23%	

Some states not reporting

Five most improved US states

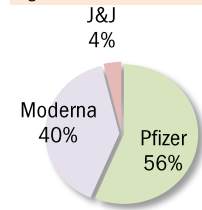
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
AZ	-3,870	AZ	-39	FL	-142	AL	+30 bp
AL	-727	CA	-11	CH	-127	DE	+20 bp
NY	-727	CT	-2	TN	-80	ID	+20 bp
FR	-456	H	-1	WA	-61	MO	+20 bp
H	-322	AK	0	AL	-46	NV	+20 bp



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	373,461,912		+0.620 million		US	51.2%	60.3%	
	One dose	% Pop	Immune	% pop	New immune today	UK	61.6%	70.3%
Total population	206,622,171	62%	175,484,825	53%	+0.269 million	France	55.6%	70.1%
Age 12 to 17	12,006,454	50%	8,922,157	38%	+0.053 million	Spain	67.3%	76.3%
Age 18 to 64	141,970,997	70%	119,785,297	59%	+0.224 million	Germany	58.5%	63.6%
Age 65 and over	51,640,827	94%	45,955,137	84%	+0.011 million	Italy	58.6%	68.9%
						Australia	24.3%	43.0%
						Israel	62.9%	68.2%
						Canada	65.9%	73.3%
						Japan	40.9%	52.6%
						Africa	2.5%	4.6%
						India	9.4%	32.8%
						Brazil	26.0%	60.1%
						China	54.0%	43.2%



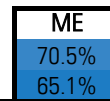
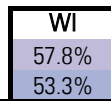
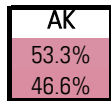
State
At least partial immunity as % population
Full immunity as % population



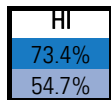
Every American >18 immune in **187 days** by Feb 25, 2022
 64.2% of population >18 immunized
 12.9% previously tested positive
77.1% vs 60% adult herd immunity

As of Aug 23

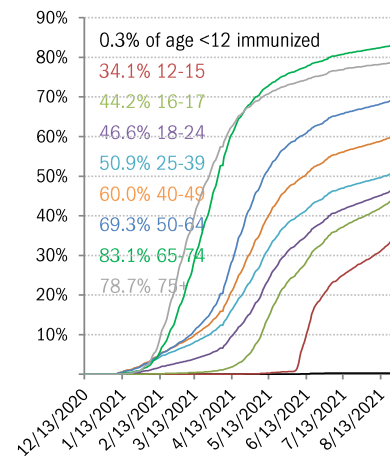
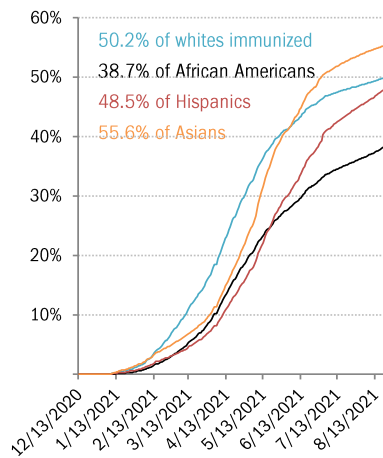
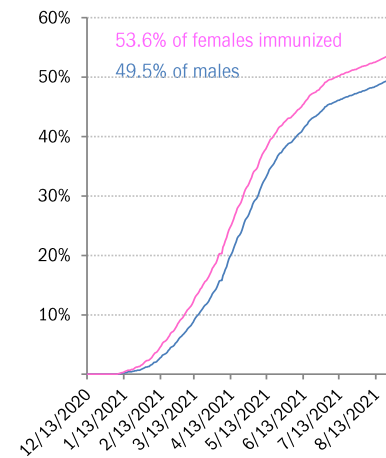
Global data differs from sources, timing



WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
66.7%	43.5%	51.4%	47.5%	61.2%	65.1%	54.7%	66.3%	75.6%	66.5%	
59.5%	38.7%	45.4%	41.2%	55.2%	50.4%	50.0%	59.2%	67.5%	59.3%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
63.1%	57.0%	44.1%	55.2%	55.5%	49.4%	51.9%	68.4%	69.0%	74.7%	
57.4%	46.8%	37.9%	48.4%	50.9%	45.7%	47.8%	54.3%	60.5%	65.4%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
67.9%	55.3%	62.6%	56.6%	52.0%	55.8%	46.8%	64.5%	67.3%	72.6%	70.5%
55.0%	46.7%	56.2%	51.1%	44.2%	47.6%	39.5%	56.4%	60.7%	65.1%	63.8%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	55.9%	68.7%	56.4%	52.1%	48.3%	54.5%	50.4%	66.6%	63.3%	
	47.1%	59.0%	47.3%	40.0%	40.9%	45.5%	42.4%	56.7%	54.5%	
			OK	LA	MS	AL	GA			
			51.9%	48.4%	45.1%	48.1%	49.9%			
			42.5%	40.0%	36.8%	36.6%	40.4%			
			TX					FL		PR
			55.9%					62.6%		72.4%
			46.2%					51.6%		62.0%



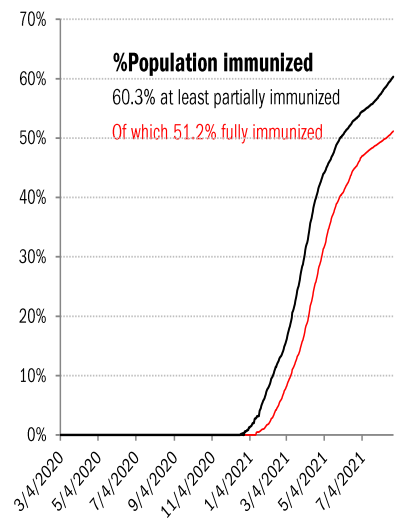
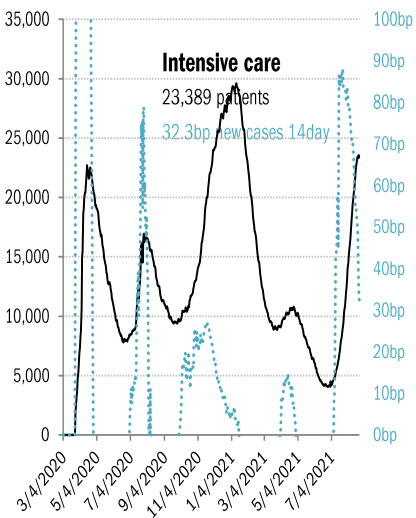
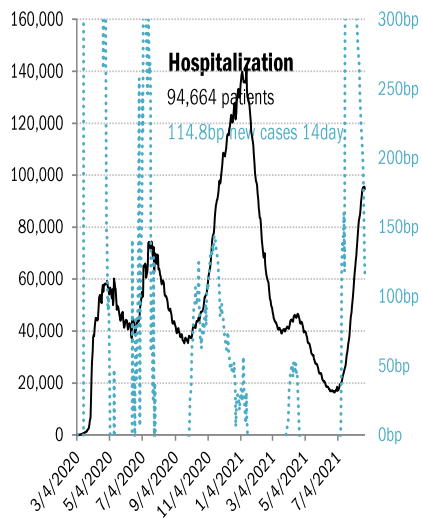
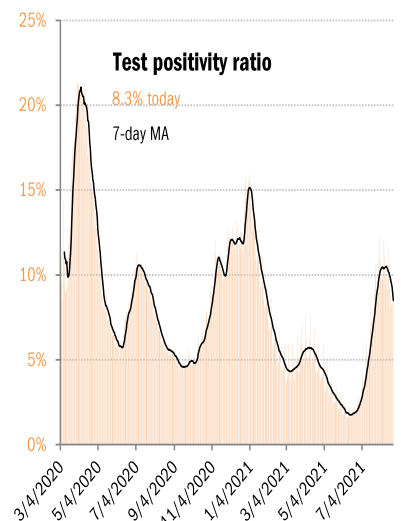
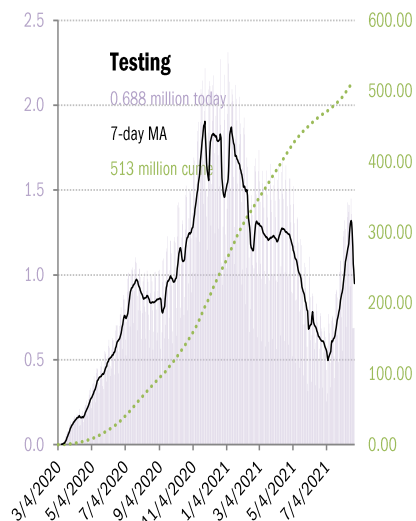
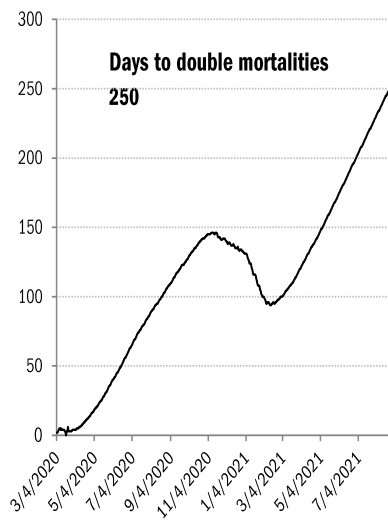
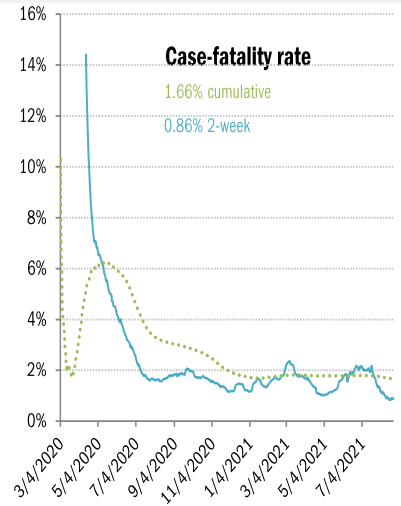
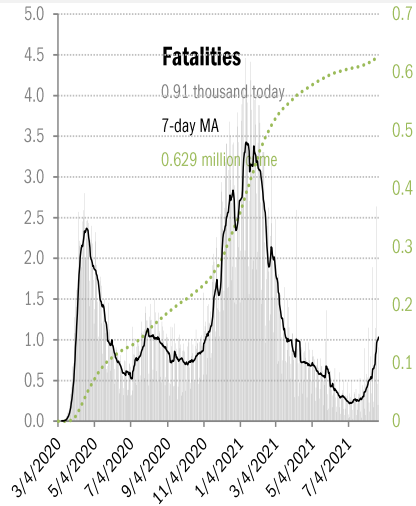
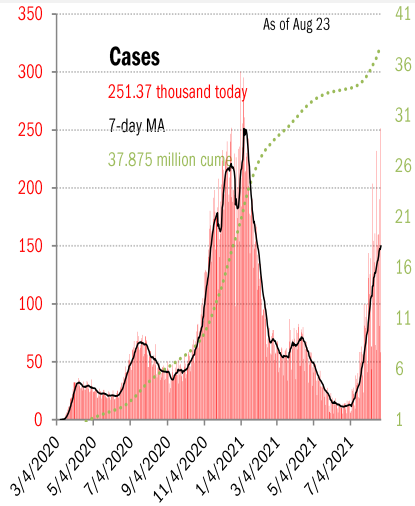
The demographics of US vaccination



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

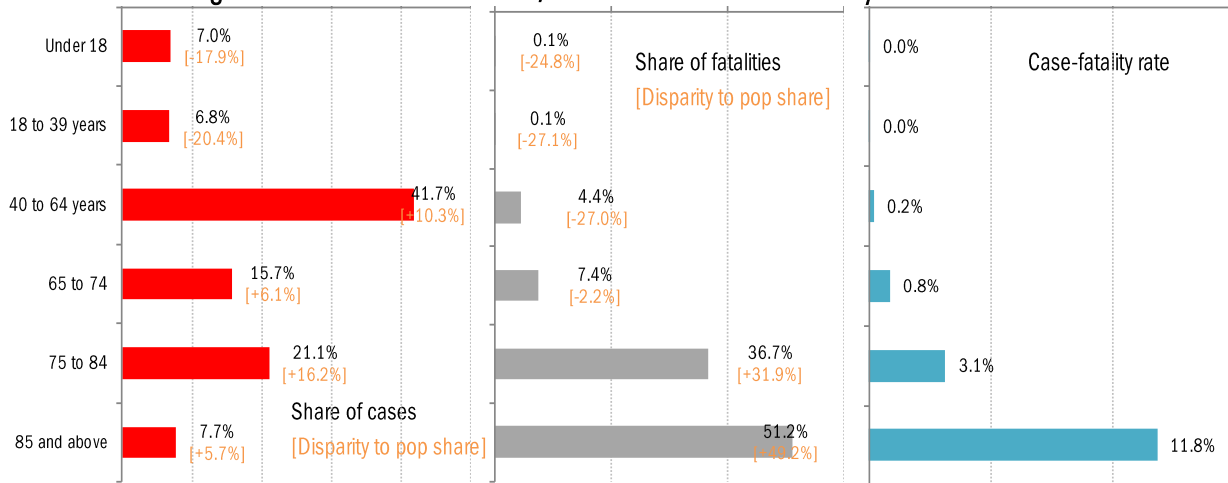
US deep-dive

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

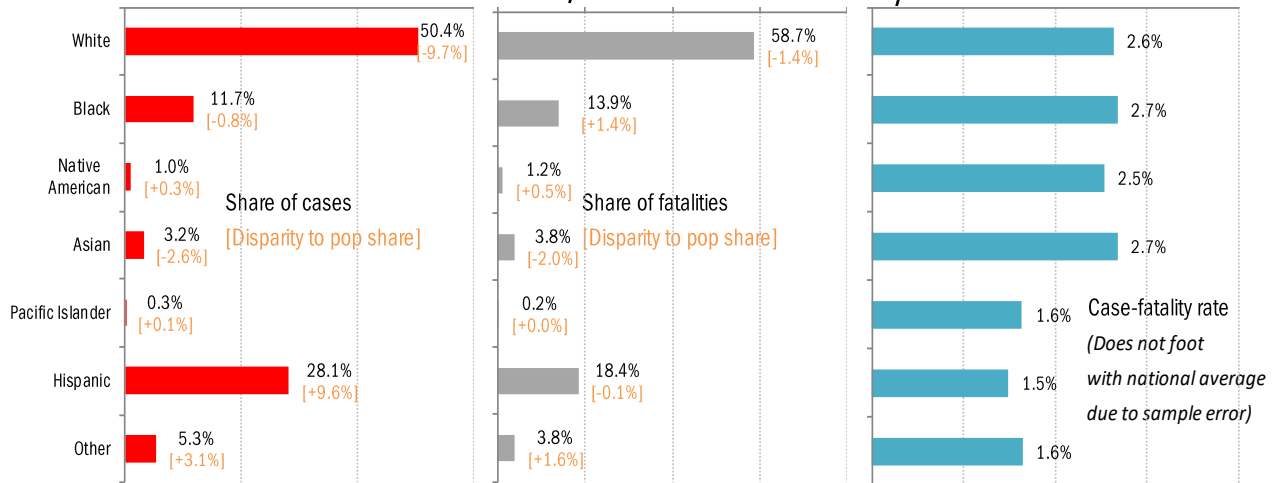


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

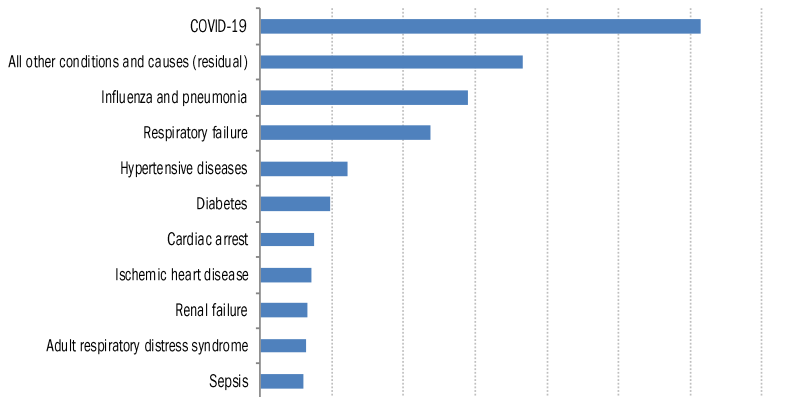


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Aug 15

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 inside story behind Pfizer and BioNTech's new vaccine brand name, Comirnaty](#)

Beth Snyder Bulik
Fierce Pharma
December 20, 2020

[Millions of Rapid Covid-19 Test Results Risk Going Uncounted](#)

Emma Court
Bloomberg
August 23, 2021

[FDA Approves Pfizer-BioNTech Covid-19 Vaccine for People 16 and Older](#)

Jared S. Hopkins and Stephanie Armour
Wall Street Journal
August 23, 2021

[The Science of Masking Kids at School Remains Uncertain](#)

David Zweig
New York Magazine
August 20, 2021

[Sturgis Super Spreader?](#)

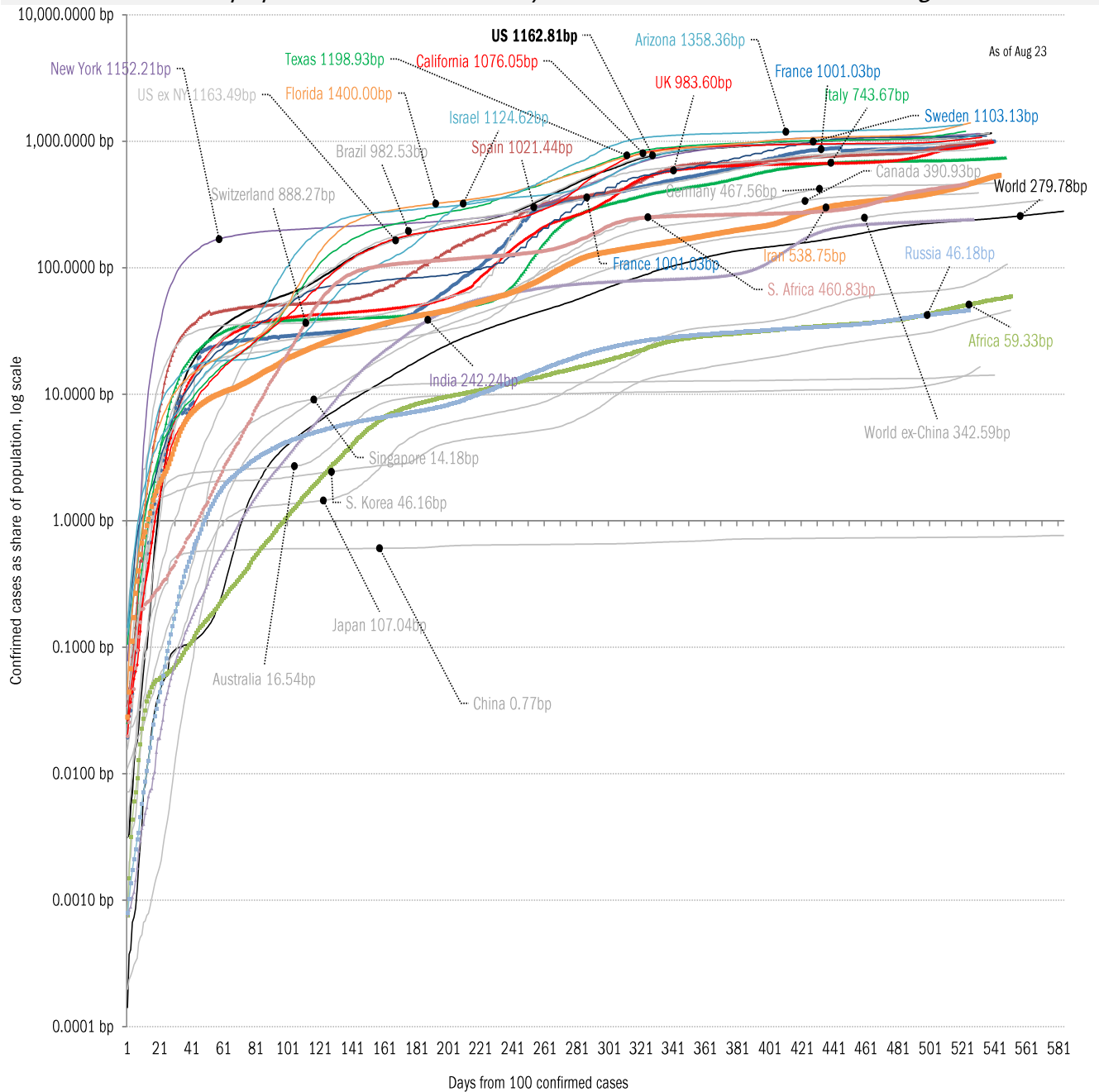
John Hinderaker
Power Line Blog
August 21, 2021

Meme of the day



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

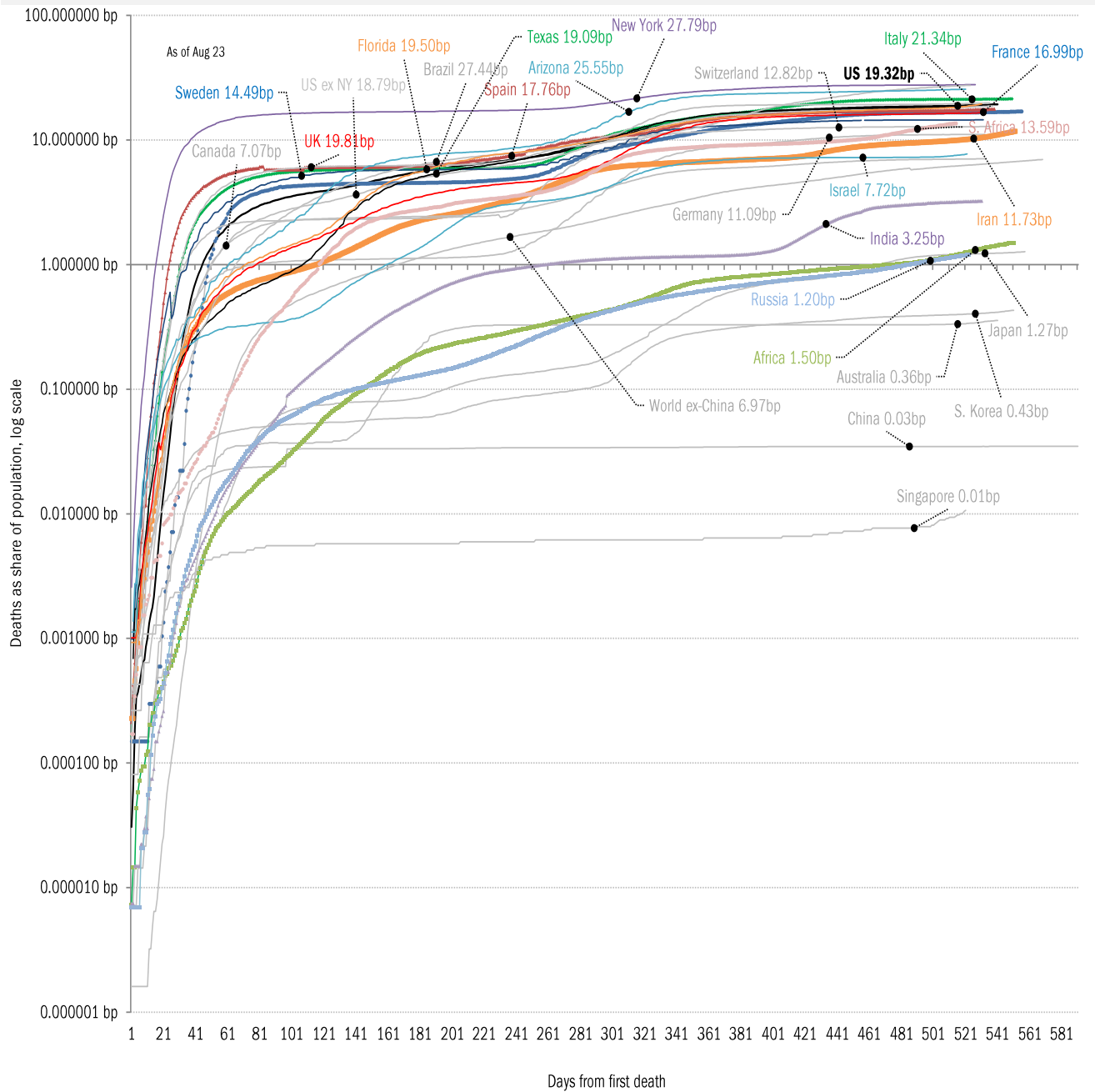
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

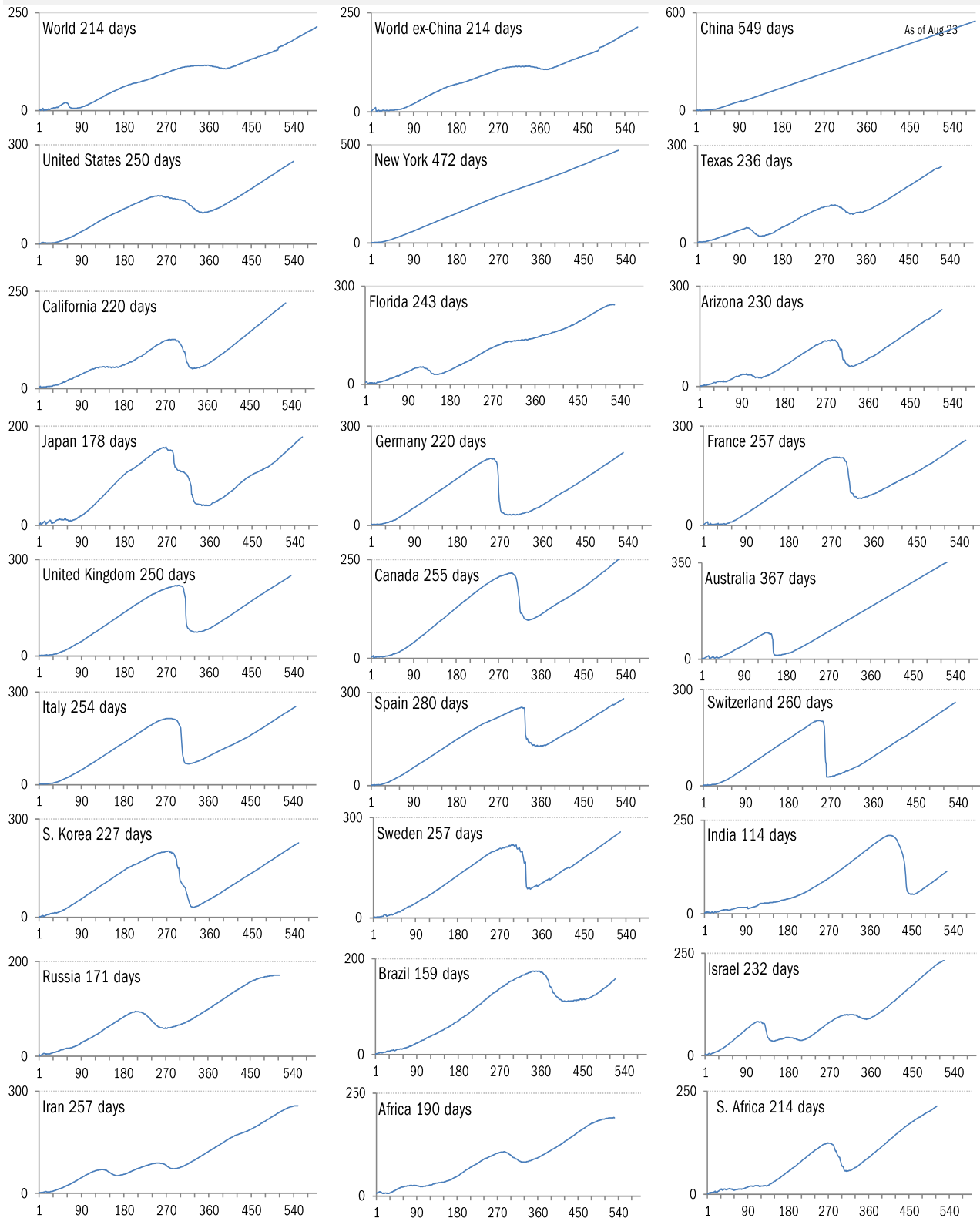


Source: [Johns Hopkins](#), TrendMacro calculations

"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

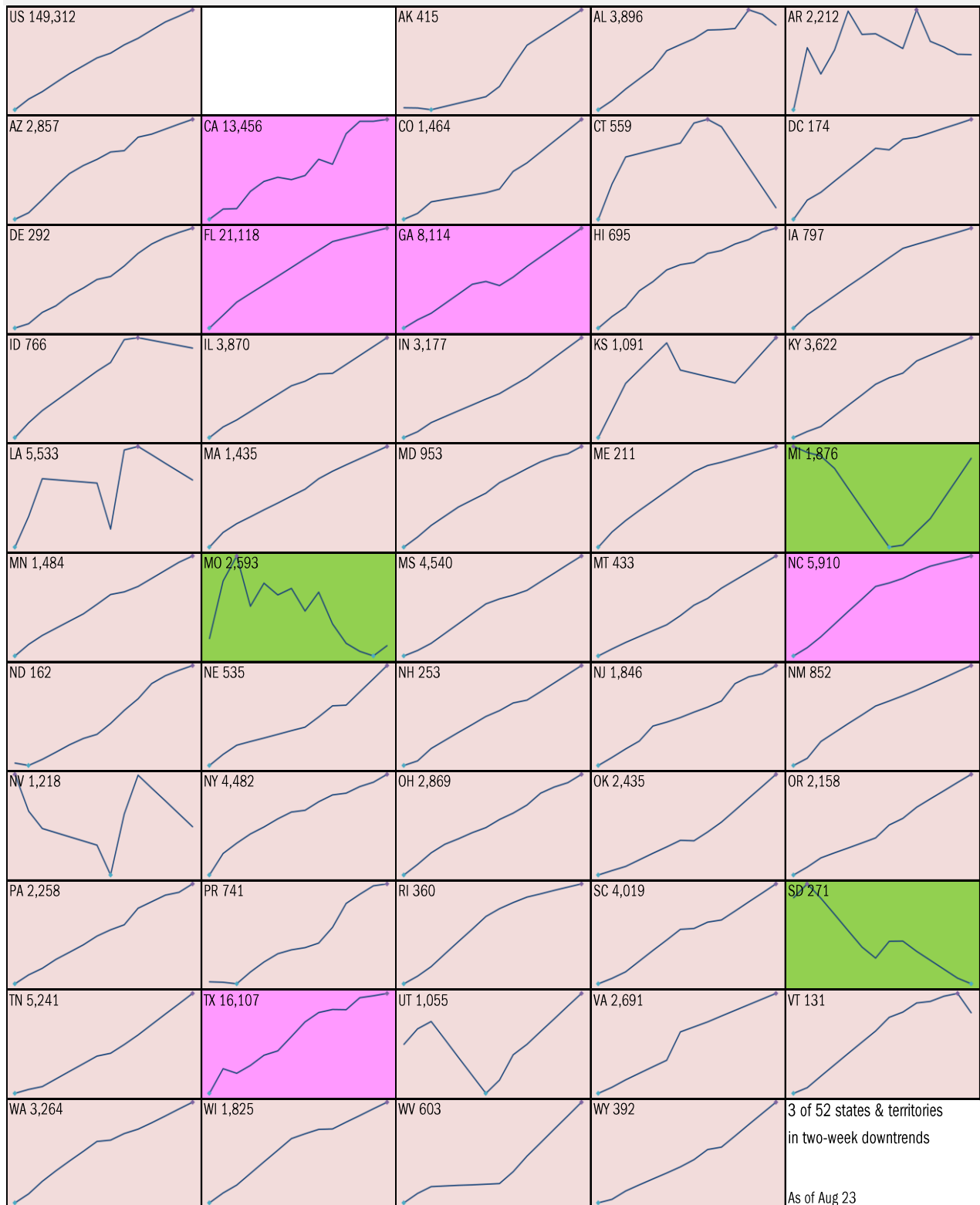


Source: [Johns Hopkins](#), TrendMacro calculations

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

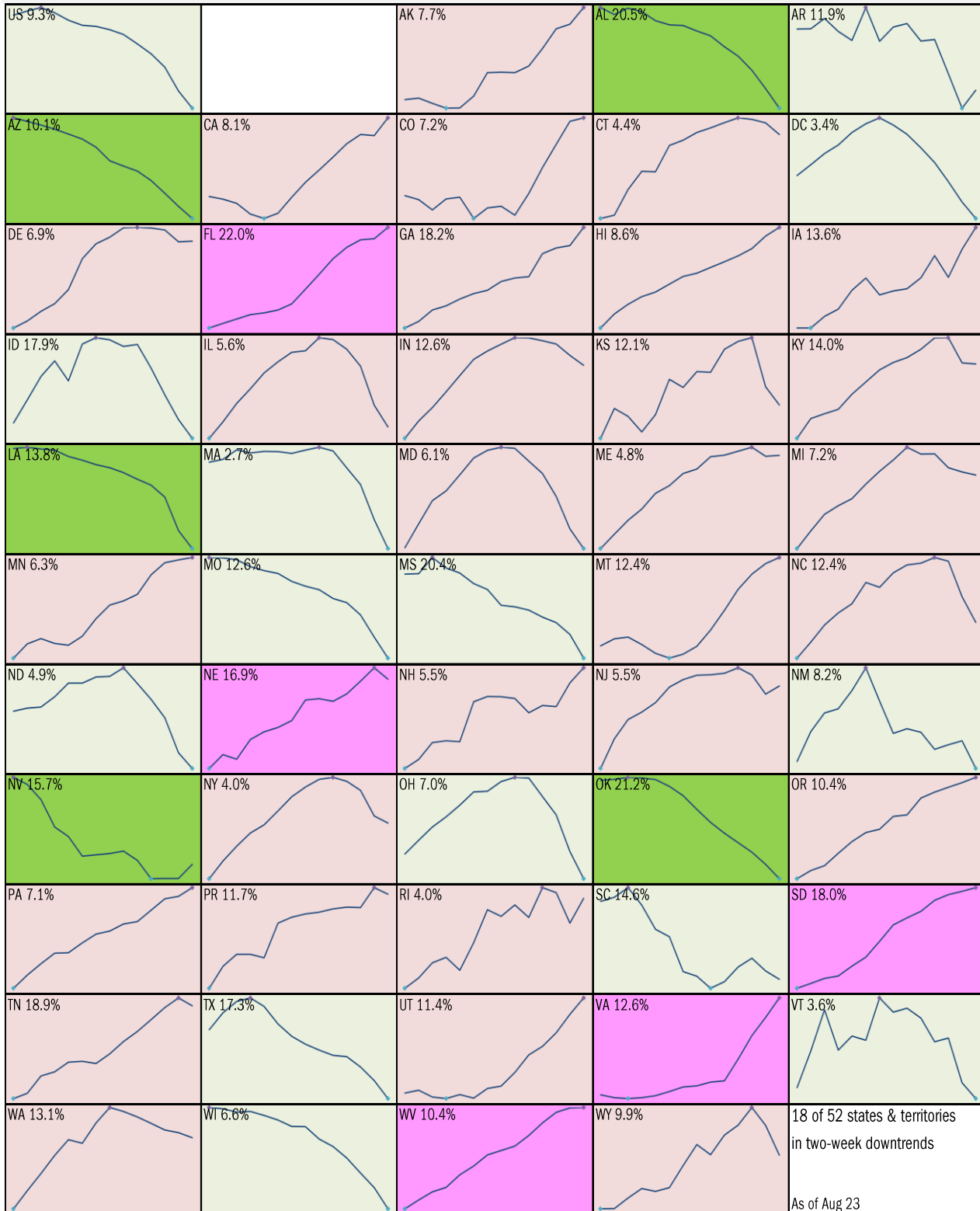


Source: [Johns Hopkins](#), TrendMacro calculations

Alt requirement to [Open Up America Again](#): 14-day “downward trajectory” in pos tests

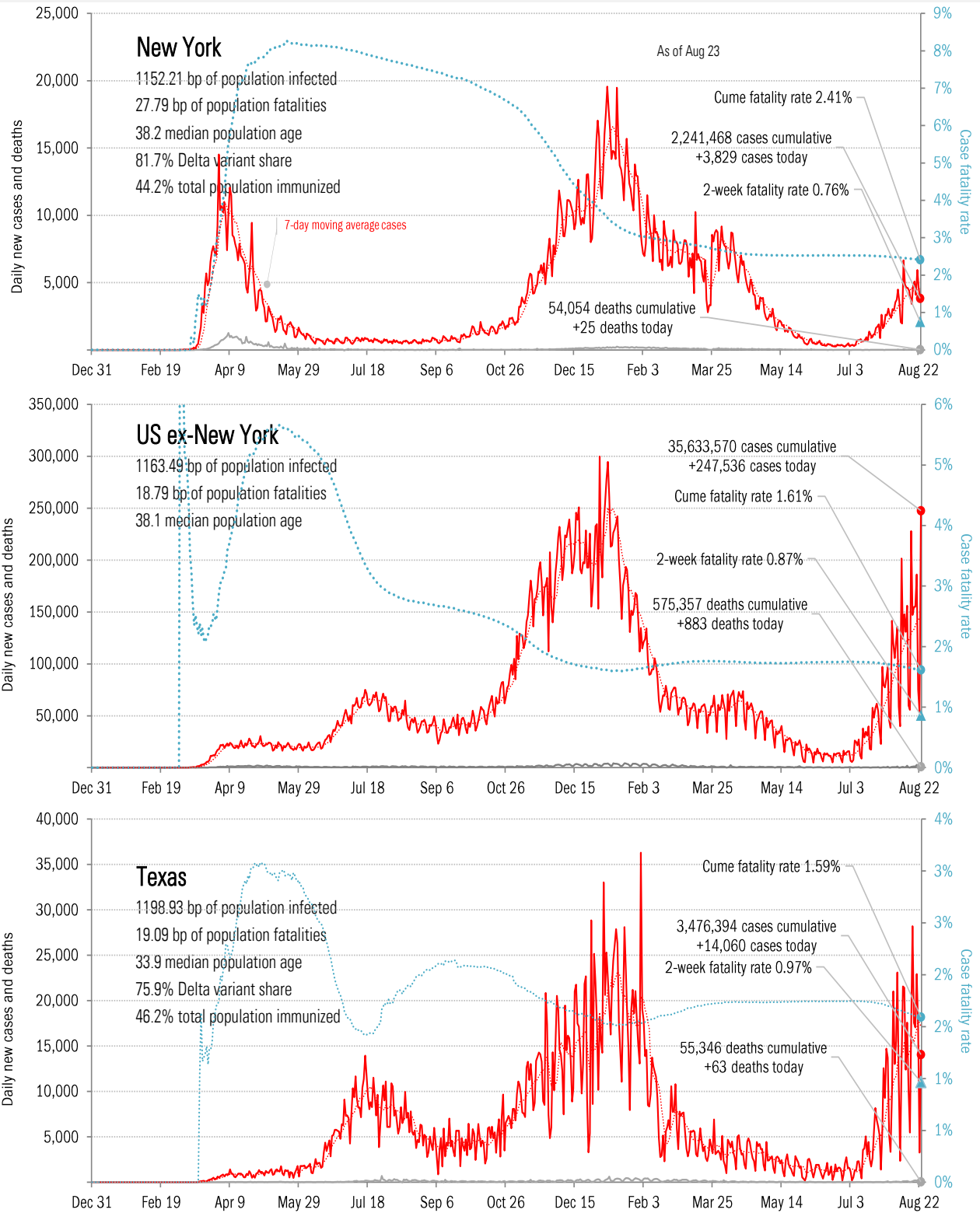
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



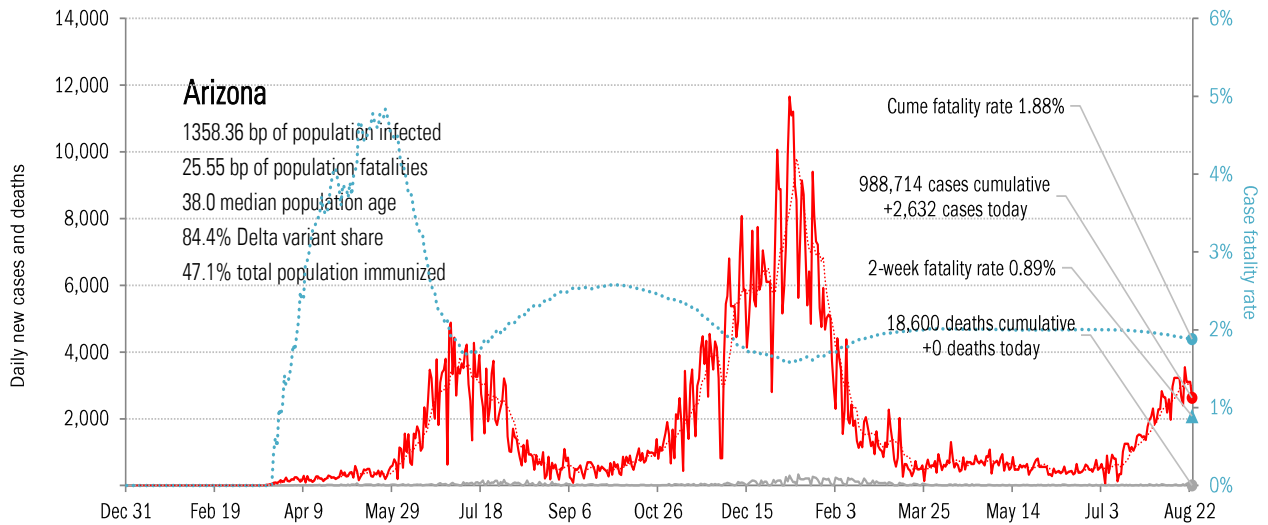
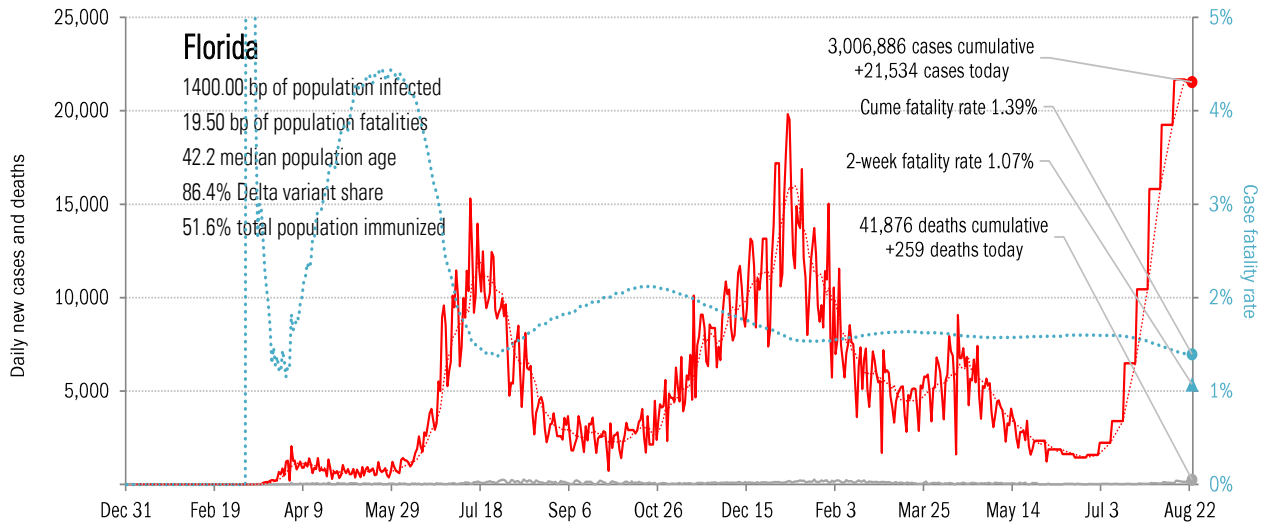
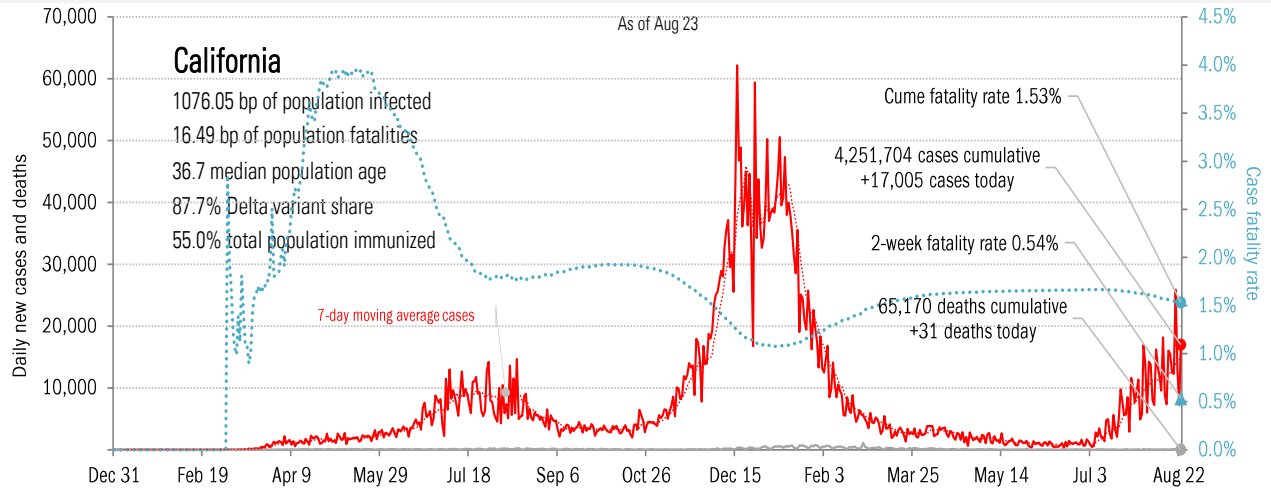
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



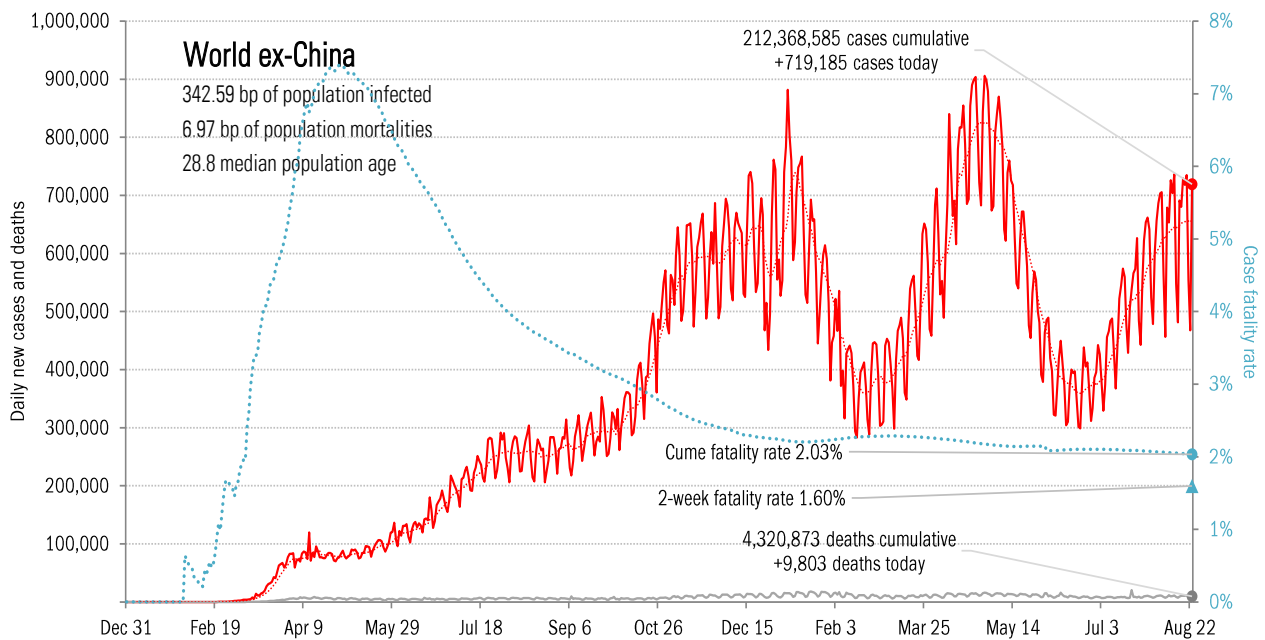
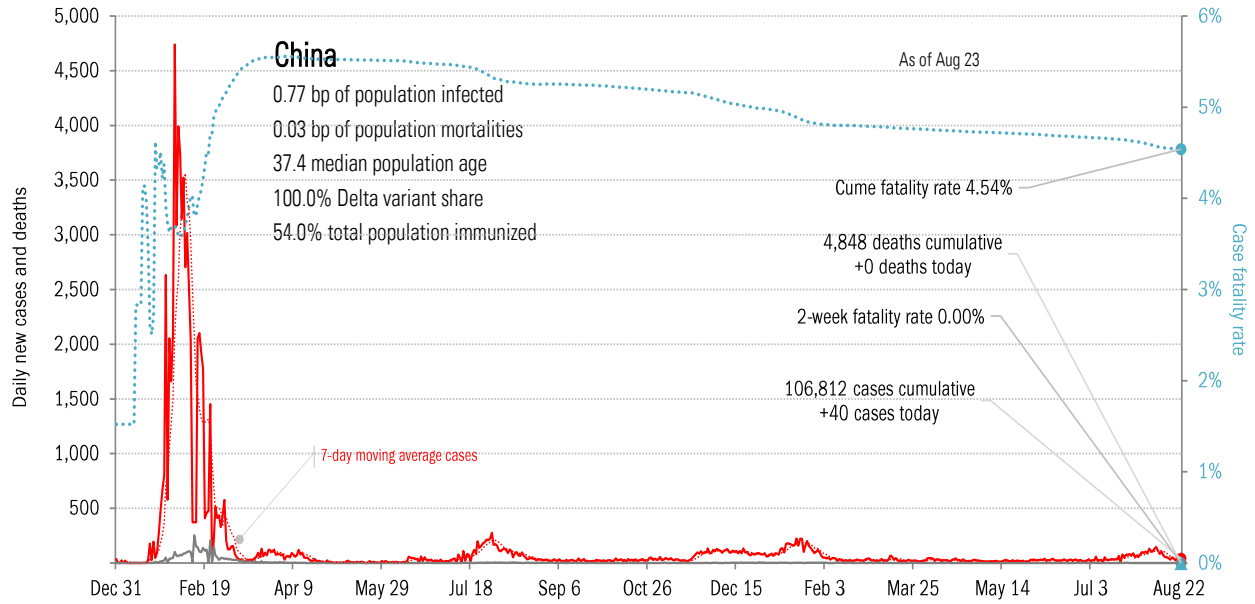
Source: [Johns Hopkins](#), TrendMacro calculations

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



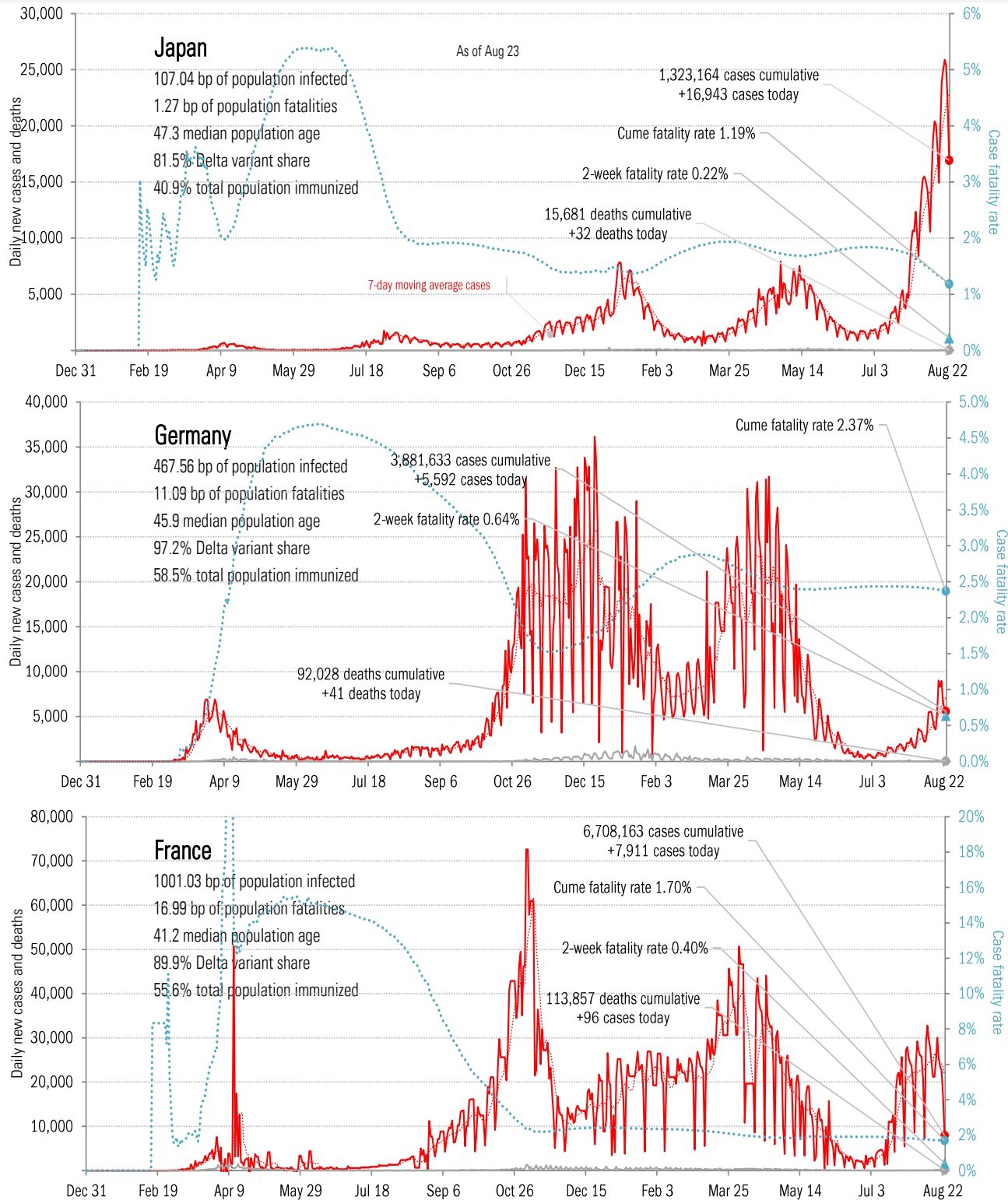
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



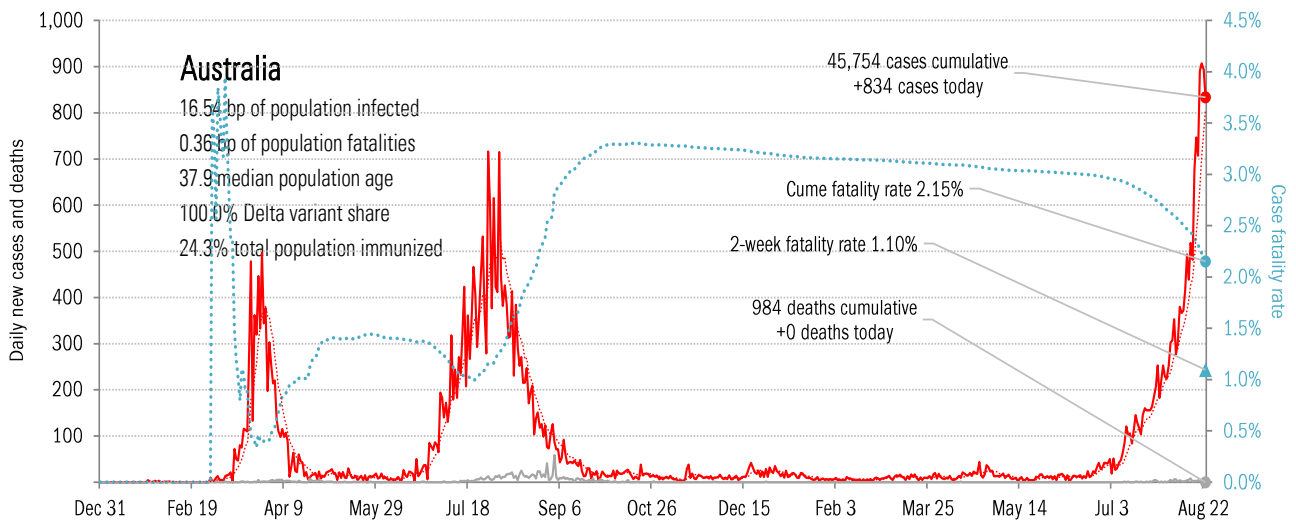
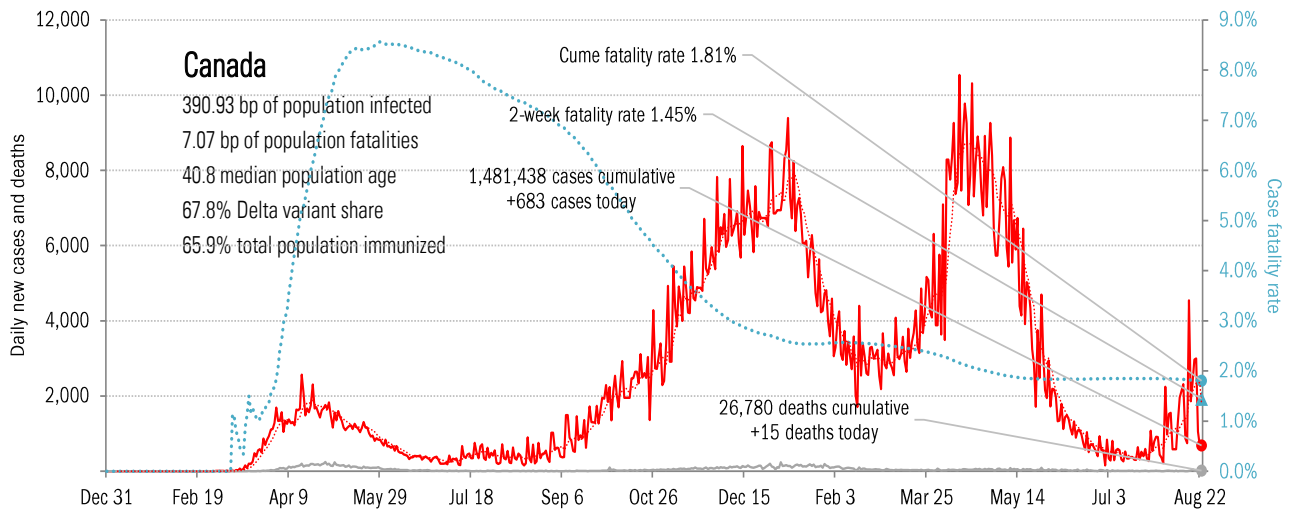
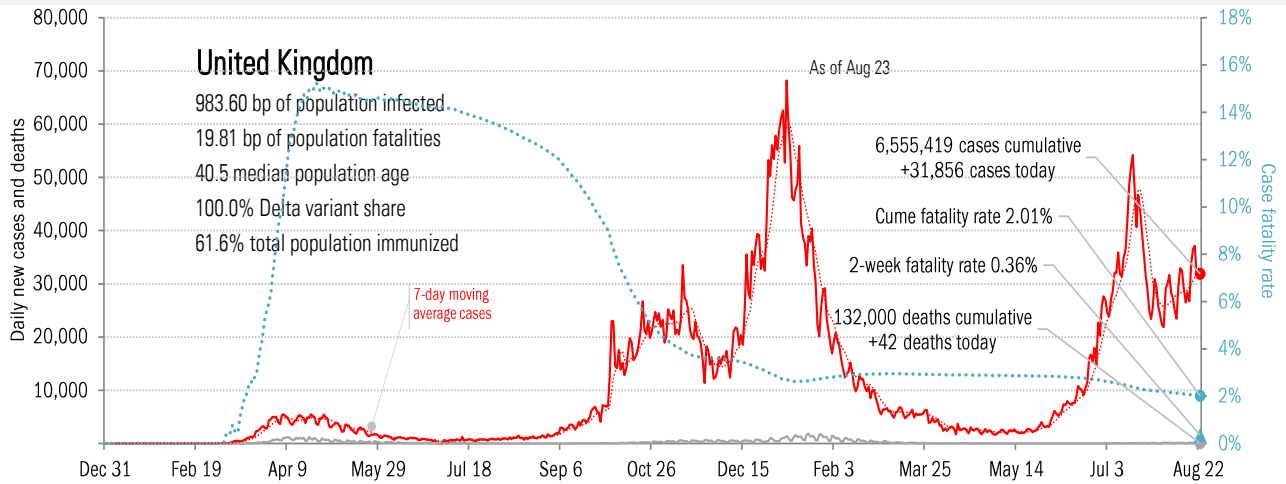
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



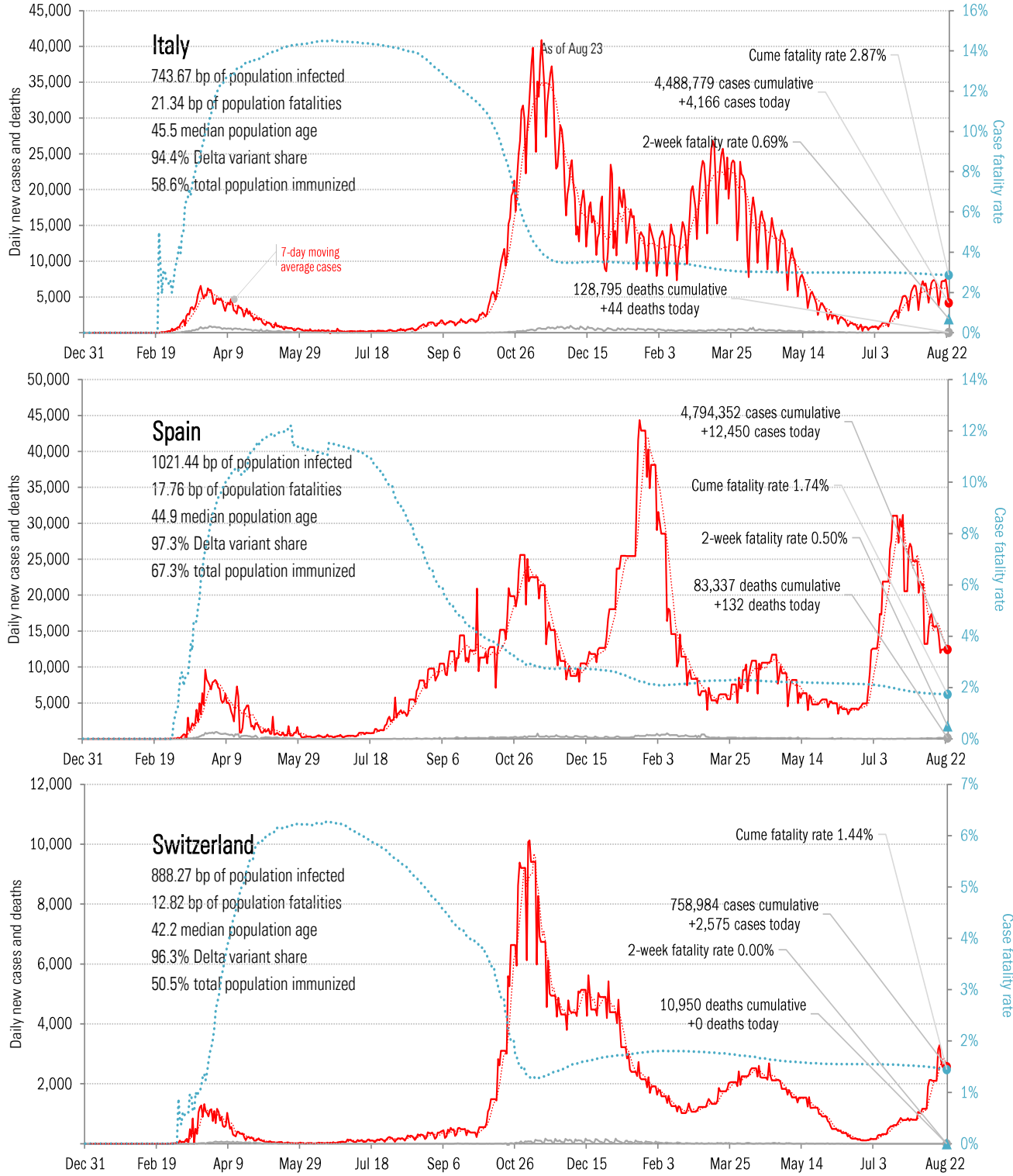
Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

Impact in The Anglosphere



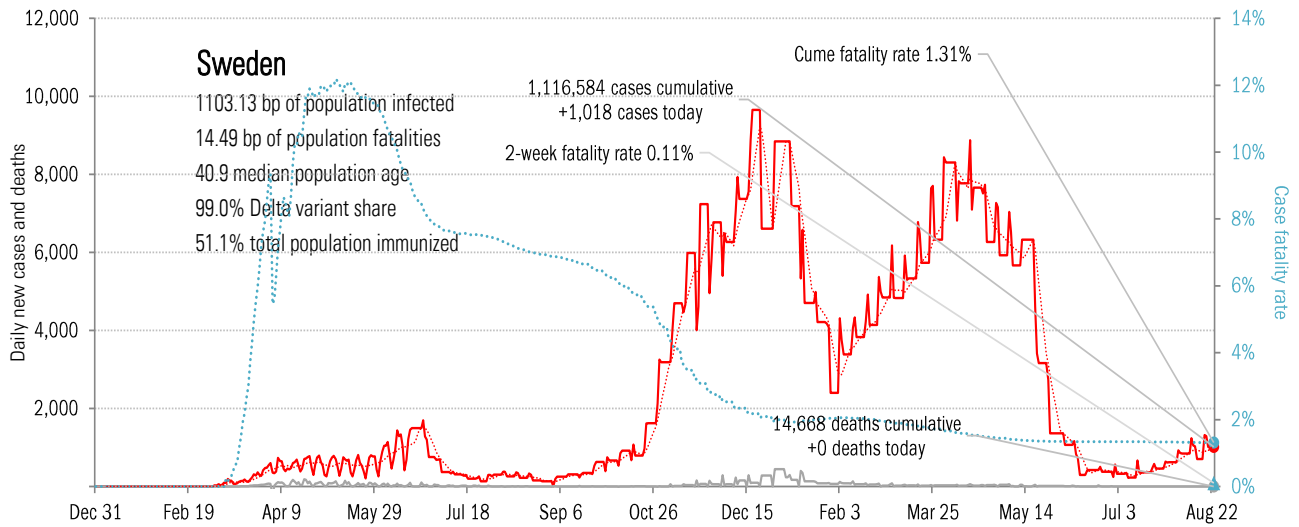
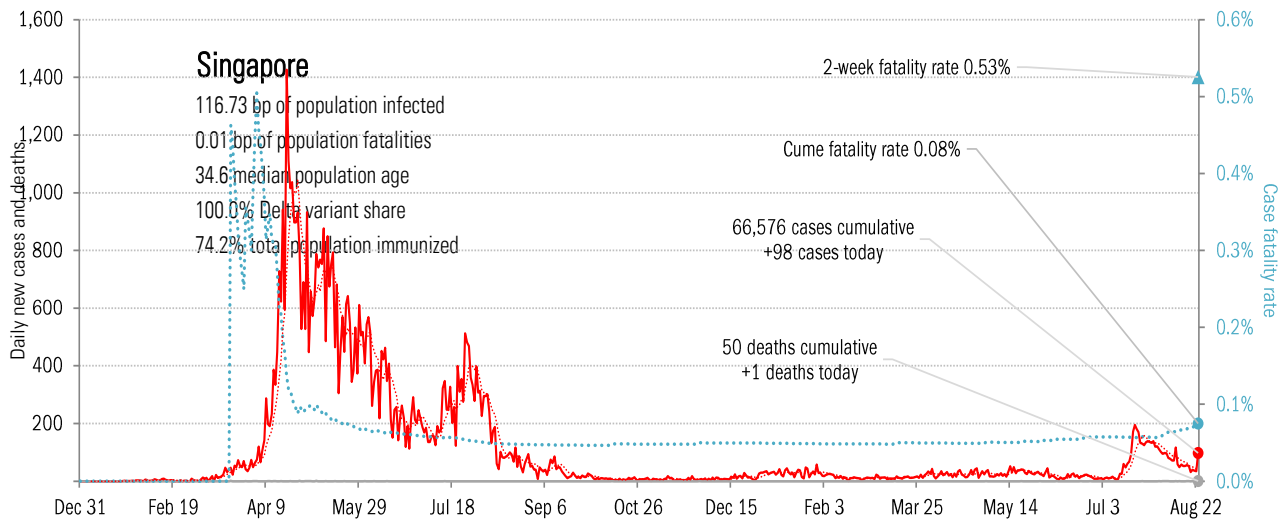
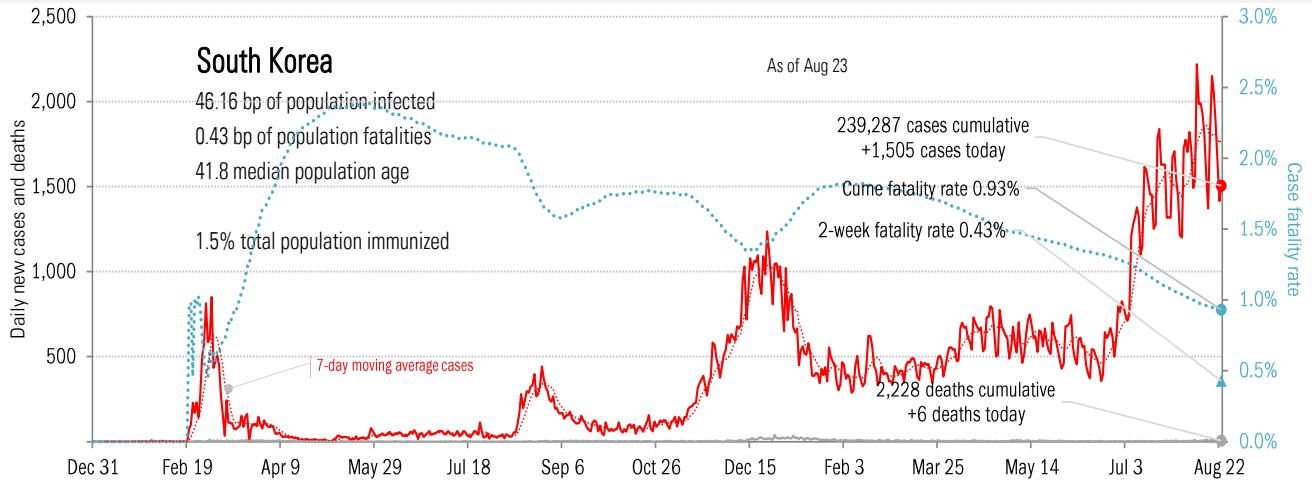
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



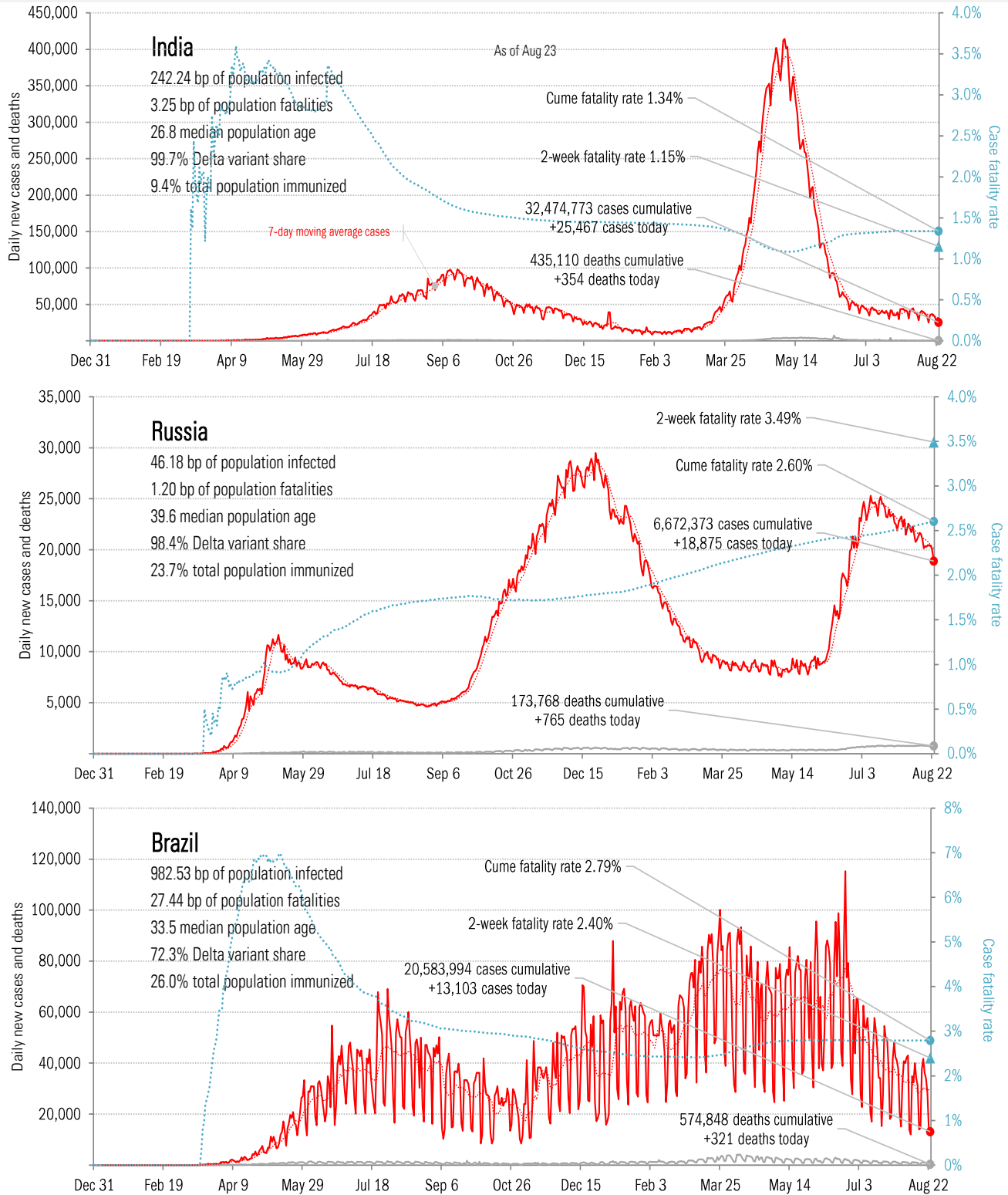
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



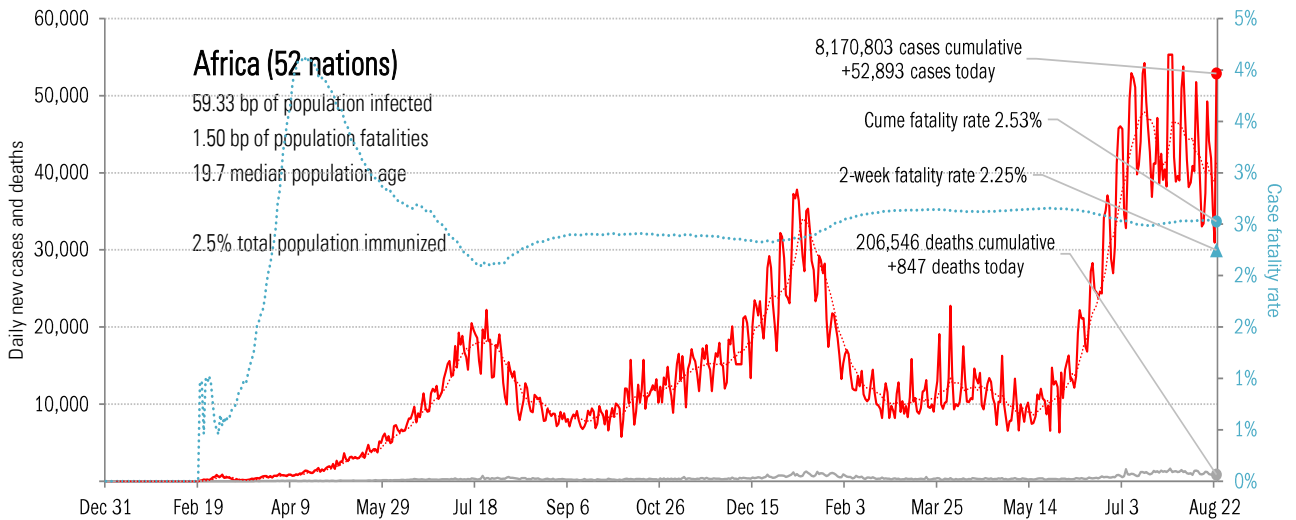
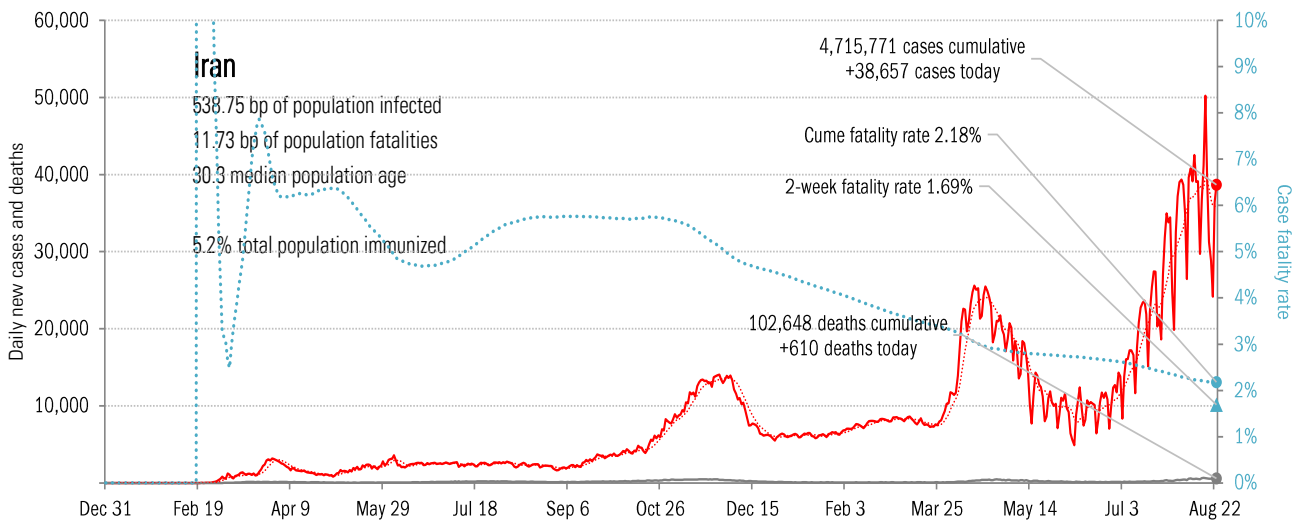
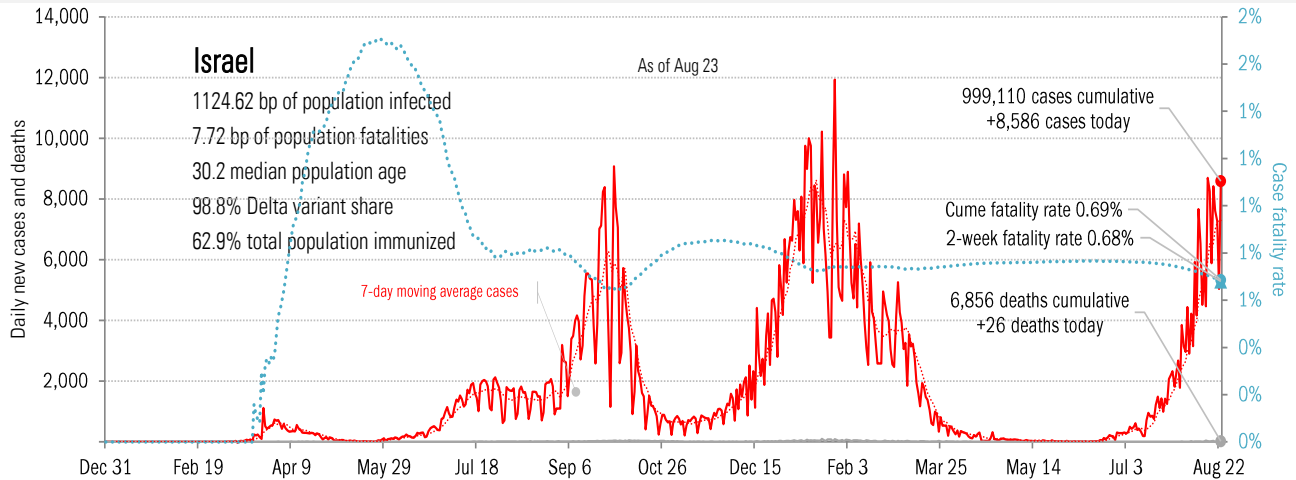
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



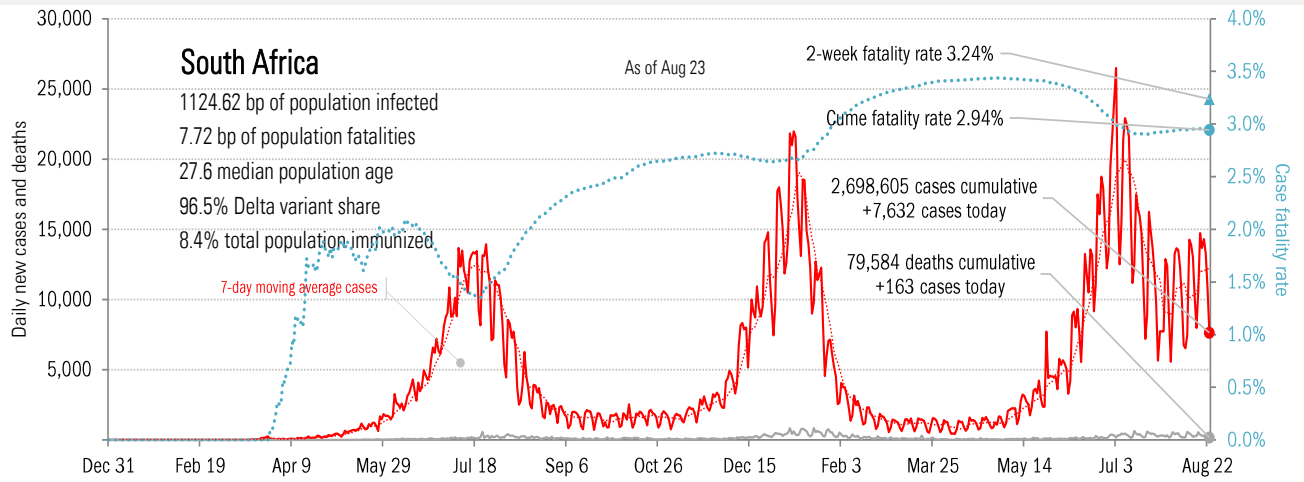
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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