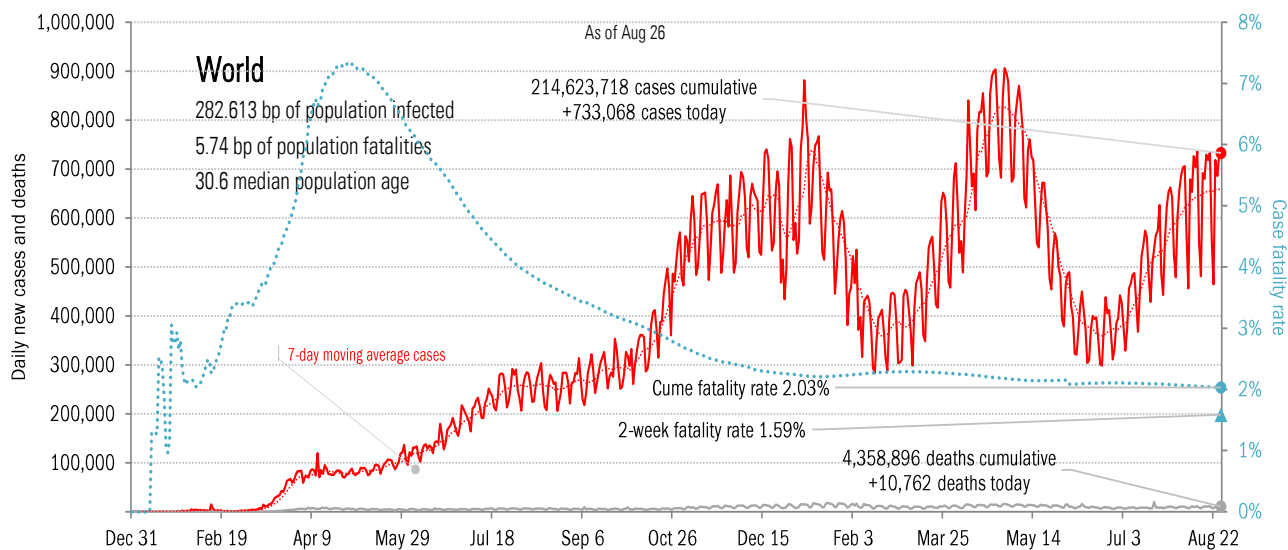
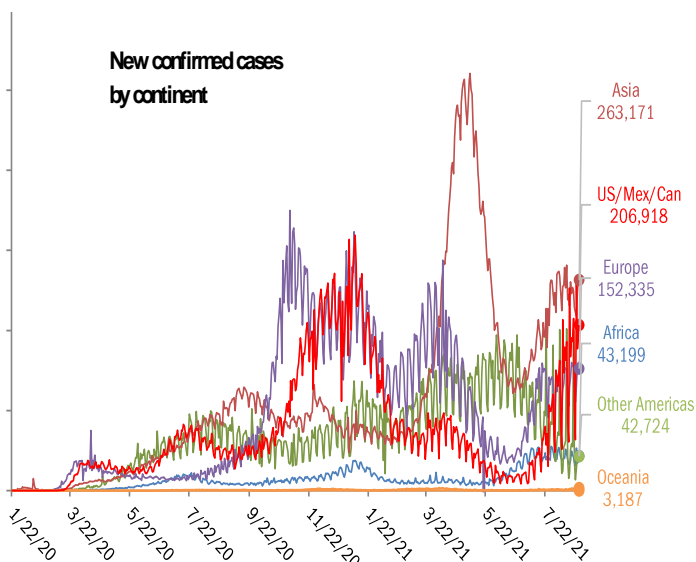


## Data Insights: Covid-2019 Monitor

Friday, August 27, 2021

### The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+ 182,865	United States	+ 1,292
India	+ 44,658	Brazil	+ 920
United Kingdom	+ 38,117	Indonesia	+ 889
Iran	+ 36,758	Mexico	+ 835
Brazil	+ 31,024	Russia	+ 799
Japan	+ 24,950	Iran	+ 694
Malaysia	+ 24,599	India	+ 496
Mexico	+ 20,633	Malaysia	+ 393
France	+ 19,893	South Africa	+ 357
Turkey	+ 19,616	Vietnam	+ 318
<b>+ 443,113</b>		<b>+ 6,993</b>	
World	+ 733,068	World	+ 10,762
Top ten	60%	Top ten	65%



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

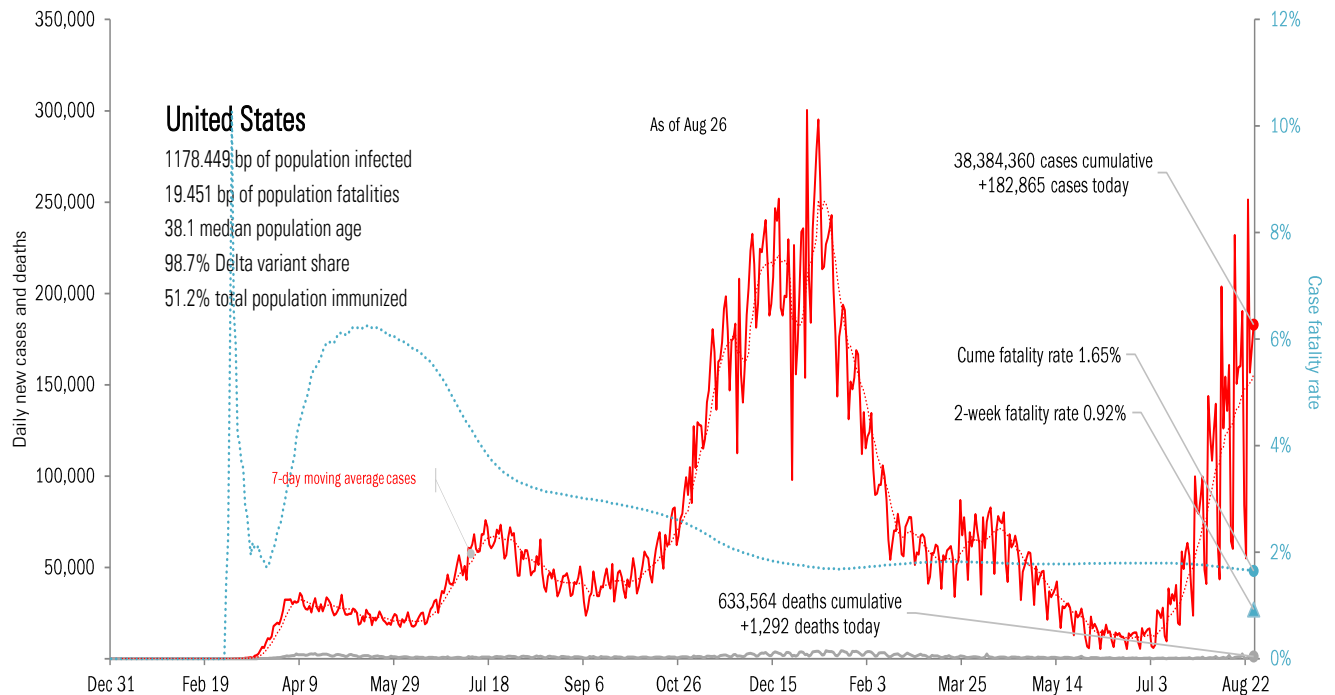
## The ten worst US states

New cases			New Deaths			New in hospital			Cumulative cases			Cumulative deaths			Cumulative in hospital			Hospital use		ICU use	
FL	+21,534		TX	+257		GA	+122		CA	4,293,363		CA	65,508		TX	312,113		RI	91%	MS	60%
TX	+14,044		FL	+194		KY	+108		TX	3,534,862		TX	56,055		CA	274,066		GA	89%	GA	57%
CA	+13,148		CA	+109		PA	+65		FL	3,071,489		NY	54,130		FL	268,464		MA	87%	FL	55%
TN	+11,311		AL	+103		VA	+38		NY	2,254,155		FL	42,520		NY	145,308		FL	85%	AL	55%
AL	+11,142		GA	+92		ID	+29		IL	1,503,063		PA	28,158		GA	131,617		MD	84%	TX	52%
GA	+10,823		LA	+72		KS	+29		GA	1,358,842		NJ	26,807		PA	97,065		SC	84%	LA	49%
NC	+8,620		TN	+68		SC	+28		PA	1,284,532		IL	26,308		CH	95,803		PA	84%	AR	48%
AZ	+6,855		NC	+60		NC	+25		CH	1,197,873		GA	22,492		KY	91,429		MO	83%	ID	45%
CH	+5,395		IL	+59		WA	+25		NC	1,181,191		MI	21,446		IL	91,225		NV	82%	OK	44%
NY	+5,364		SC	+56		AL	+23		NJ	1,081,954		CH	20,729		MI	77,199		AL	81%	KY	41%
+108,236			+1,070			+492			20,761,324			364,153			1,584,289						
All states	+182,865			+1,486			-62		All states	38,384,360			633,564			2,803,511		All states	70%		67%
Top ten	59%			72%			-794%		Top ten	54%			57%			57%		Median	76%		26%

Some states not reporting

## Five most improved US states

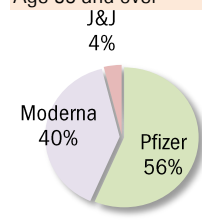
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-7,292	OK	-136	CA	-158	OK	+40 bp
IA	-7,112	IA	-42	DC	-151	AL	+20 bp
MI	-5,195	MI	-41	FL	-101	AR	+20 bp
KS	-3,426	KY	-38	IN	-87	CT	+20 bp
LA	-1,488	LA	-38	AR	-85	DE	+20 bp



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	376,020,250		+0.951 million		US	51.2%	60.4%	
	One dose	% Pop	Immune	% pop	New immune today	UK	61.9%	70.2%
Total population	207,878,785	62%	176,585,348	53%	+0.405 million	France	57.2%	70.8%
Age 12 to 17	12,189,628	51%	9,126,577	38%	+0.071 million	Spain	69.0%	77.3%
Age 18 to 64	142,901,260	70%	120,558,011	59%	+0.285 million	Germany	59.4%	64.2%
Age 65 and over	51,778,577	95%	46,074,978	84%	+0.048 million	Italy	59.5%	69.6%
						Australia	25.6%	44.5%
						Israel	62.2%	67.6%
						Canada	65.9%	72.9%
						Japan	43.9%	55.0%
						Africa	2.5%	4.6%
						India	9.8%	33.6%
						Brazil	27.3%	61.8%
						China	53.8%	43.1%



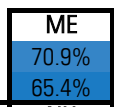
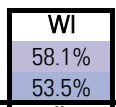
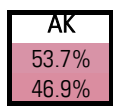
State
At least partial immunity as % population
Full immunity as % population



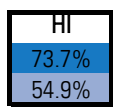
Every American >18 immune in **117 days** by Dec 21, 2021  
 64.5% of population >18 immunized  
 13.1% previously tested positive  
**77.6%** vs 60% adult herd immunity

As of Aug 26

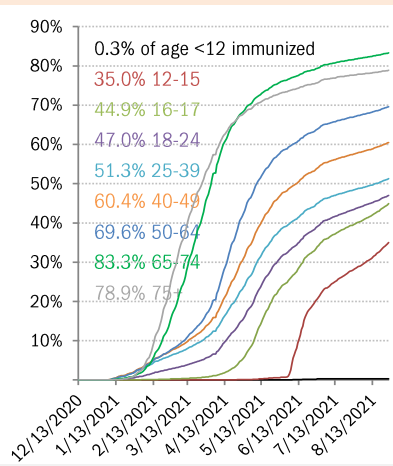
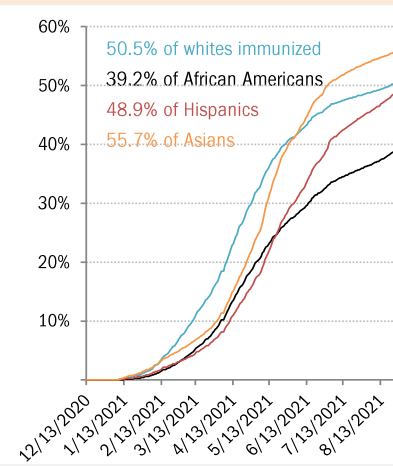
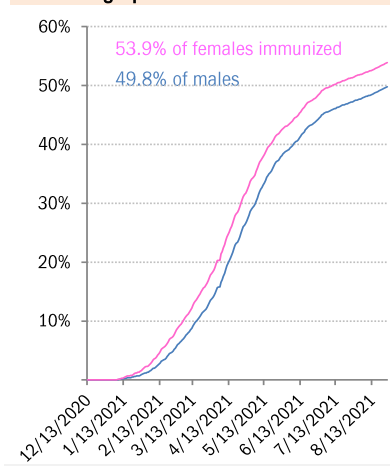
Global data differs from sources, timing



<b>WA</b> 67.1% 59.7%	<b>ID</b> 43.7% 38.8%	<b>MT</b> 51.8% 45.7%	<b>ND</b> 47.7% 41.3%	<b>MN</b> 61.4% 55.4%	<b>IL</b> 65.4% 50.7%	<b>MI</b> 54.9% 50.2%	<b>NY</b> 66.7% 59.5%	<b>VT</b> 75.8% 67.6%	<b>NH</b> 66.8% 59.5%	
<b>OR</b> 63.4% 57.6%	<b>NV</b> 57.4% 47.2%	<b>WY</b> 44.7% 38.2%	<b>SD</b> 55.7% 48.8%	<b>IA</b> 55.9% 51.3%	<b>IN</b> 49.6% 45.9%	<b>OH</b> 52.1% 48.0%	<b>PA</b> 68.7% 54.6%	<b>NJ</b> 69.3% 60.9%	<b>MA</b> 74.9% 65.6%	
<b>CA</b> 68.3% 55.3%	<b>UT</b> 56.0% 47.3%	<b>CO</b> 62.9% 56.5%	<b>NE</b> 56.7% 51.3%	<b>MO</b> 52.3% 44.6%	<b>KY</b> 56.2% 47.9%	<b>WV</b> 46.9% 39.5%	<b>VA</b> 64.8% 56.7%	<b>MD</b> 67.7% 61.0%	<b>CT</b> 73.0% 65.5%	<b>RI</b> 70.9% 64.2%
	<b>AZ</b> 56.1% 47.4%	<b>NM</b> 69.1% 59.5%	<b>KS</b> 56.7% 47.7%	<b>AR</b> 52.5% 40.6%	<b>TN</b> 48.7% 41.2%	<b>NC</b> 54.9% 45.8%	<b>SC</b> 50.8% 42.7%	<b>DC</b> 66.9% 56.9%	<b>DE</b> 63.6% 54.8%	
			<b>OK</b> 52.6% 43.1%	<b>LA</b> 48.9% 40.6%	<b>MS</b> 45.8% 37.3%	<b>AL</b> 48.6% 37.0%	<b>GA</b> 50.5% 40.9%			
			<b>TX</b> 56.5% 46.8%					<b>FL</b> 62.9% 51.9%	<b>PR</b> 72.9% 62.3%	



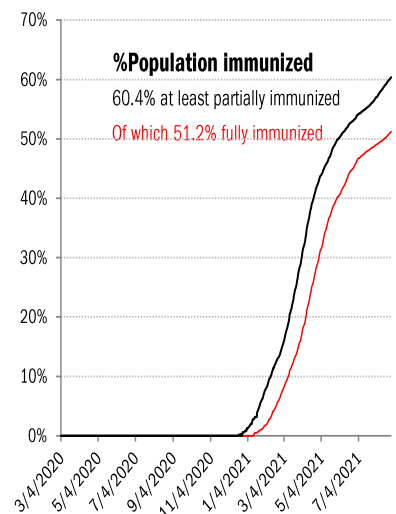
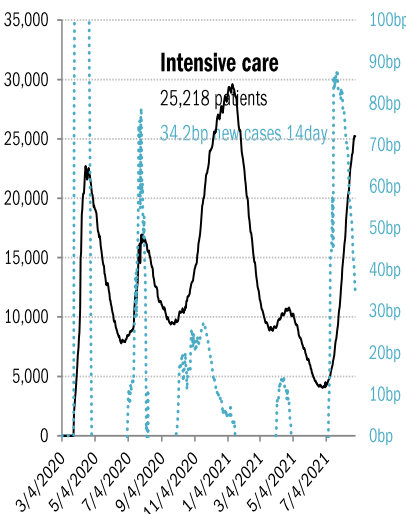
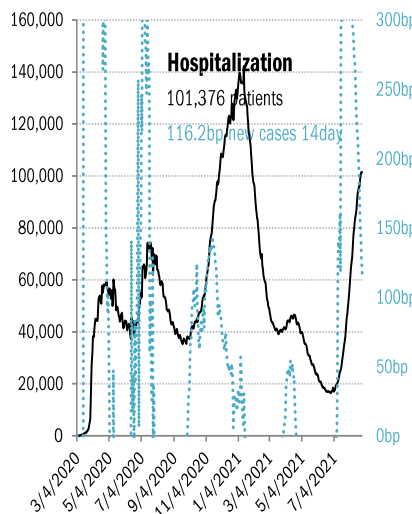
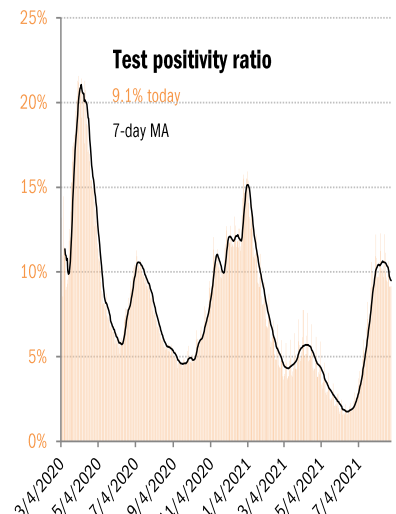
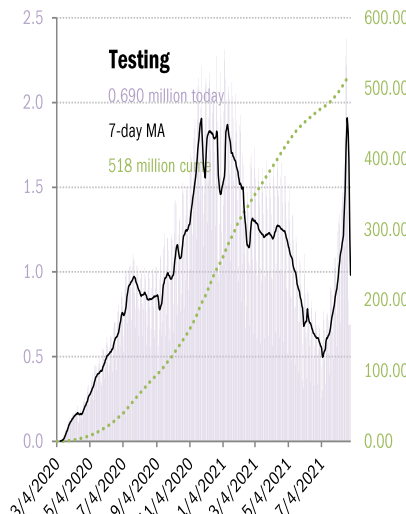
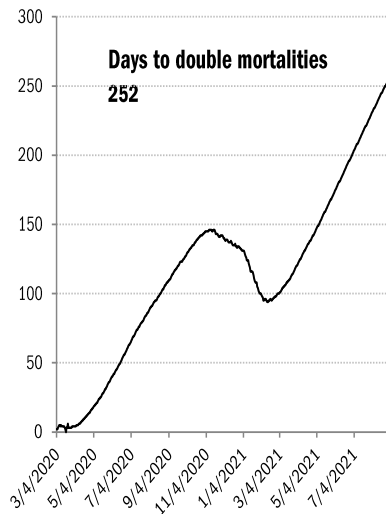
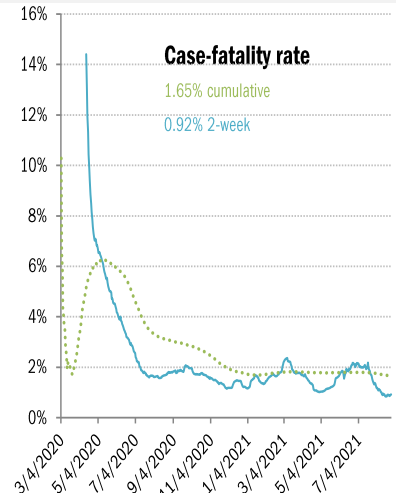
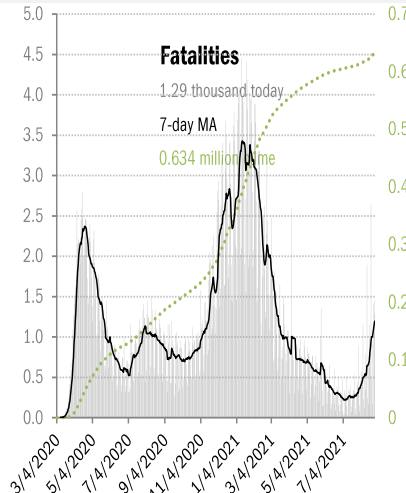
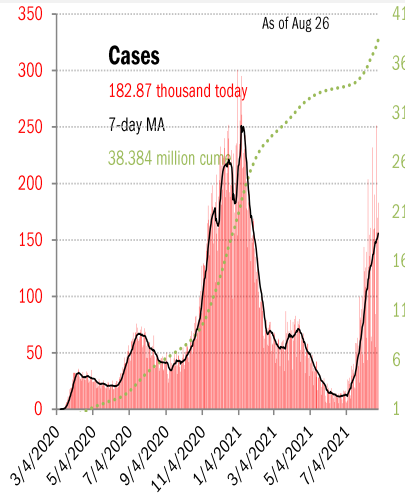
## The demographics of US vaccination



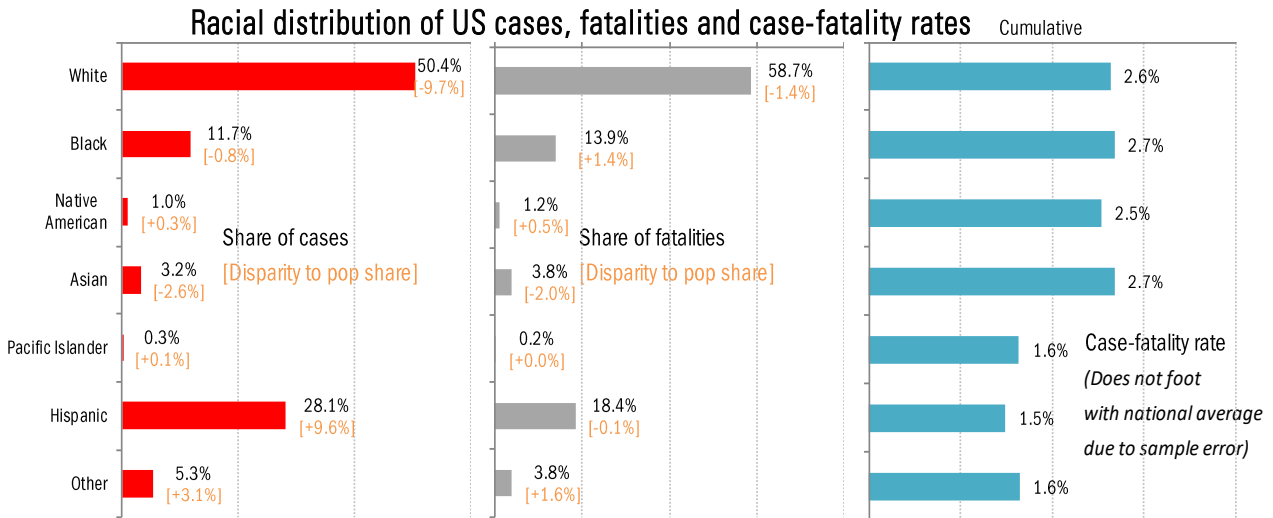
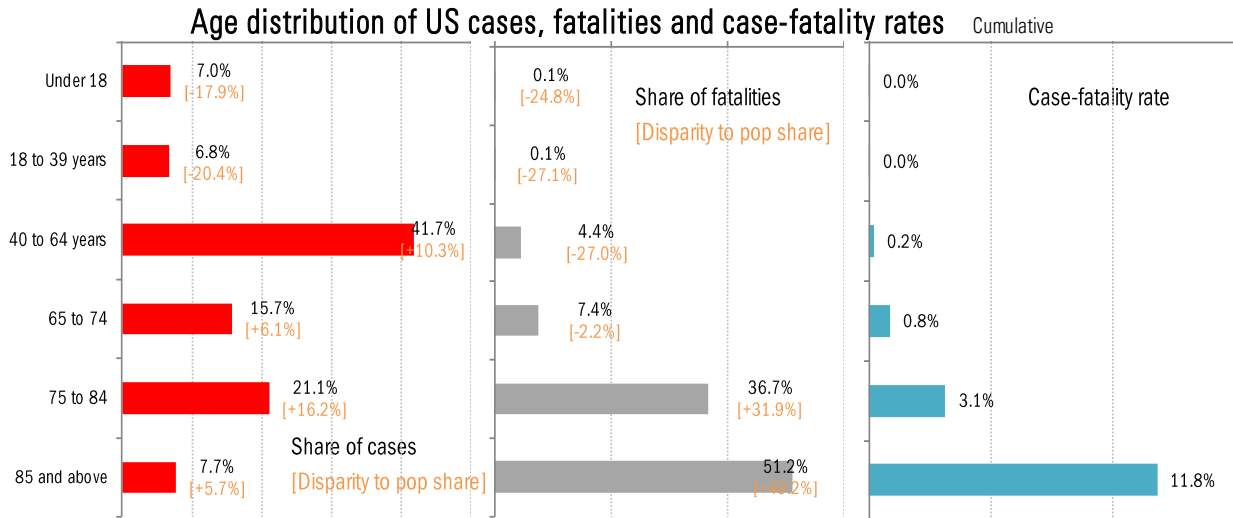
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

# US deep-dive

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

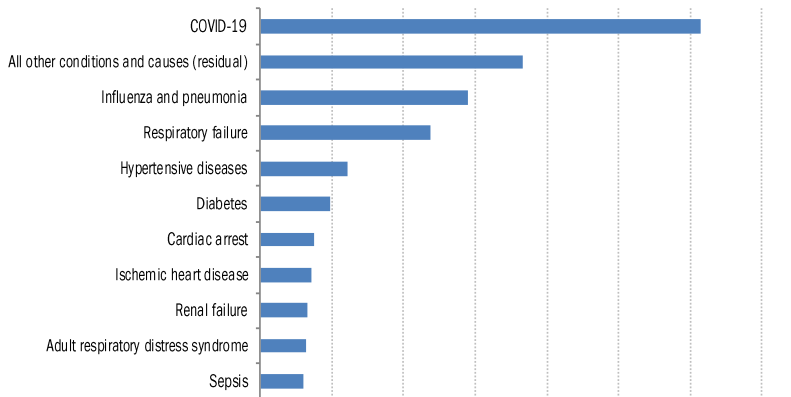


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations



### Comorbidities

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

[More Companies Weigh Penalizing Employees Without Covid-19 Vaccinations](#)

Dylan Tokar  
*Wall Street Journal*  
August 26, 2021

[Covid-19 Vaccine Efficacy: What Do the Numbers Really Mean?](#)

Jared S. Hopkins and Sarah Toy  
*Wall Street Journal*  
August 26, 2021

[Supreme Court Blocks New Eviction Moratorium Action represents a legal blow against ban Biden administration imposed this month](#)

Brent Kendall and Jess Bravin  
*Wall Street Journal*  
August 26, 2020

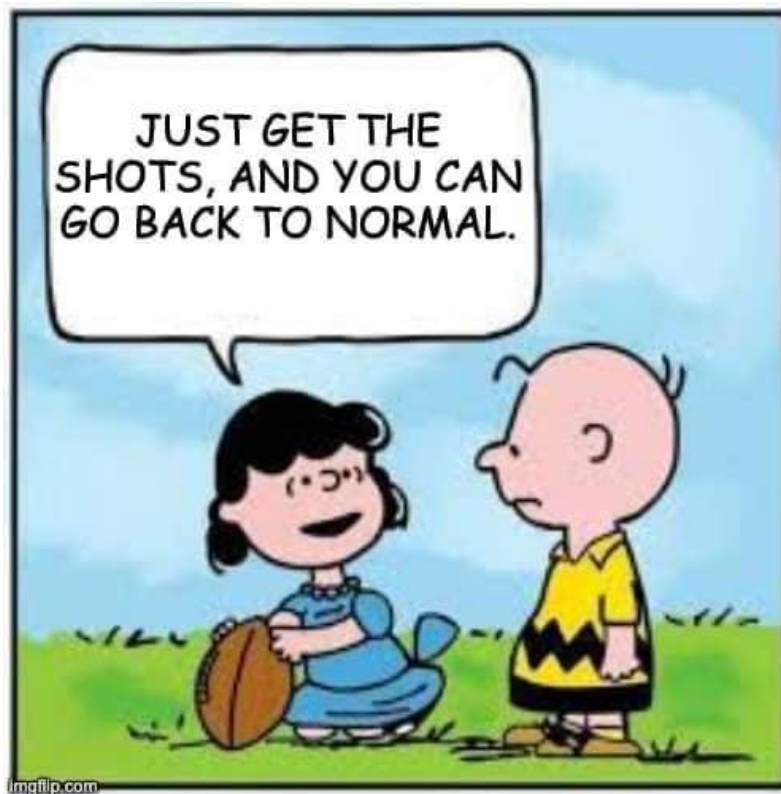
[Let Lawyers Hunt for Covid's Origin](#)

Mike Pompeo and David B. Rivkin Jr.  
*Wall Street Journal*  
August 21, 2021

[Safety of the BNT162b2 mRNA Covid-19 Vaccine in a Nationwide Setting](#)

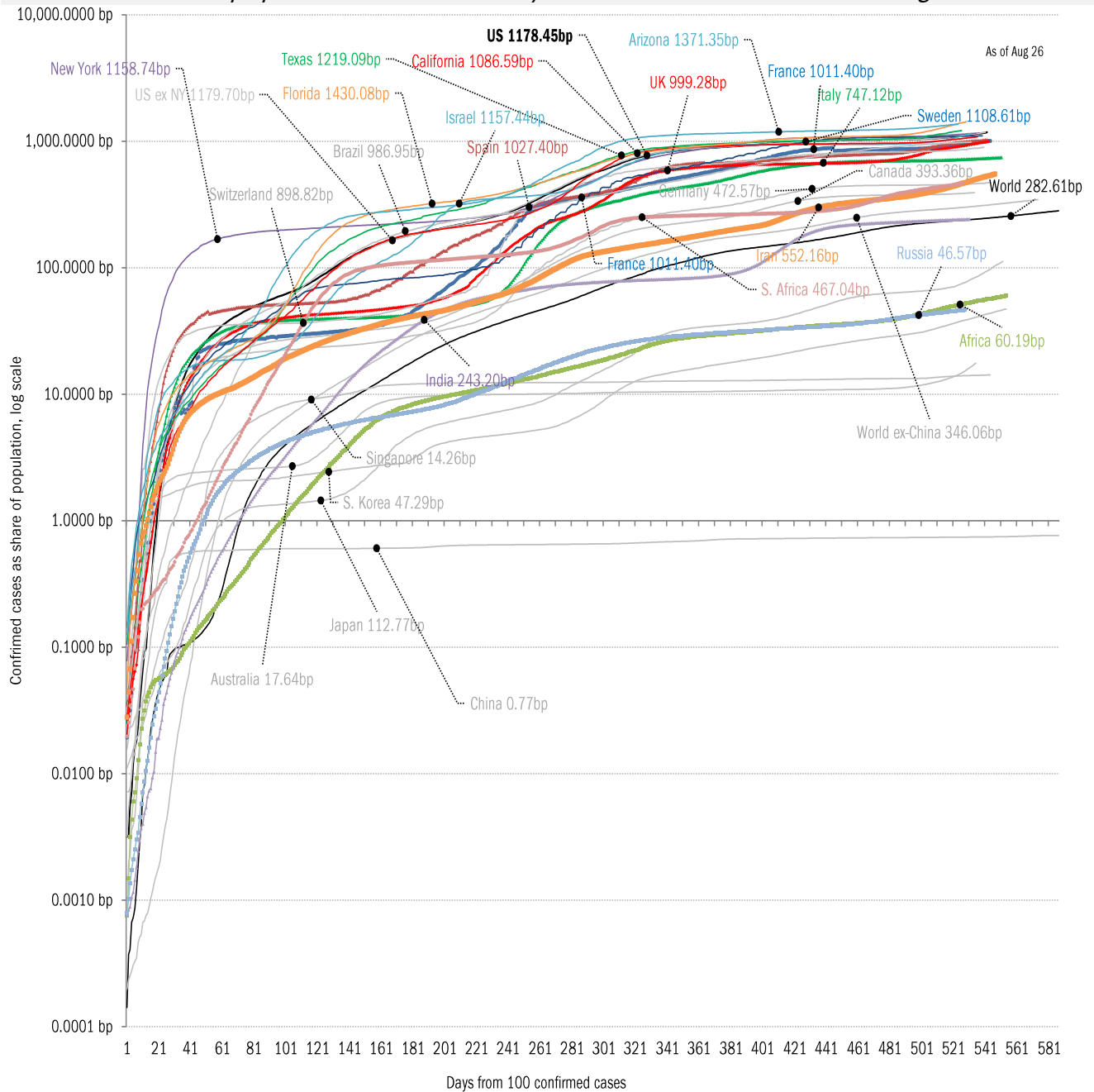
Noam Barda et al.  
*New England Journal of Medicine*  
August 25, 2021

## Meme of the day



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

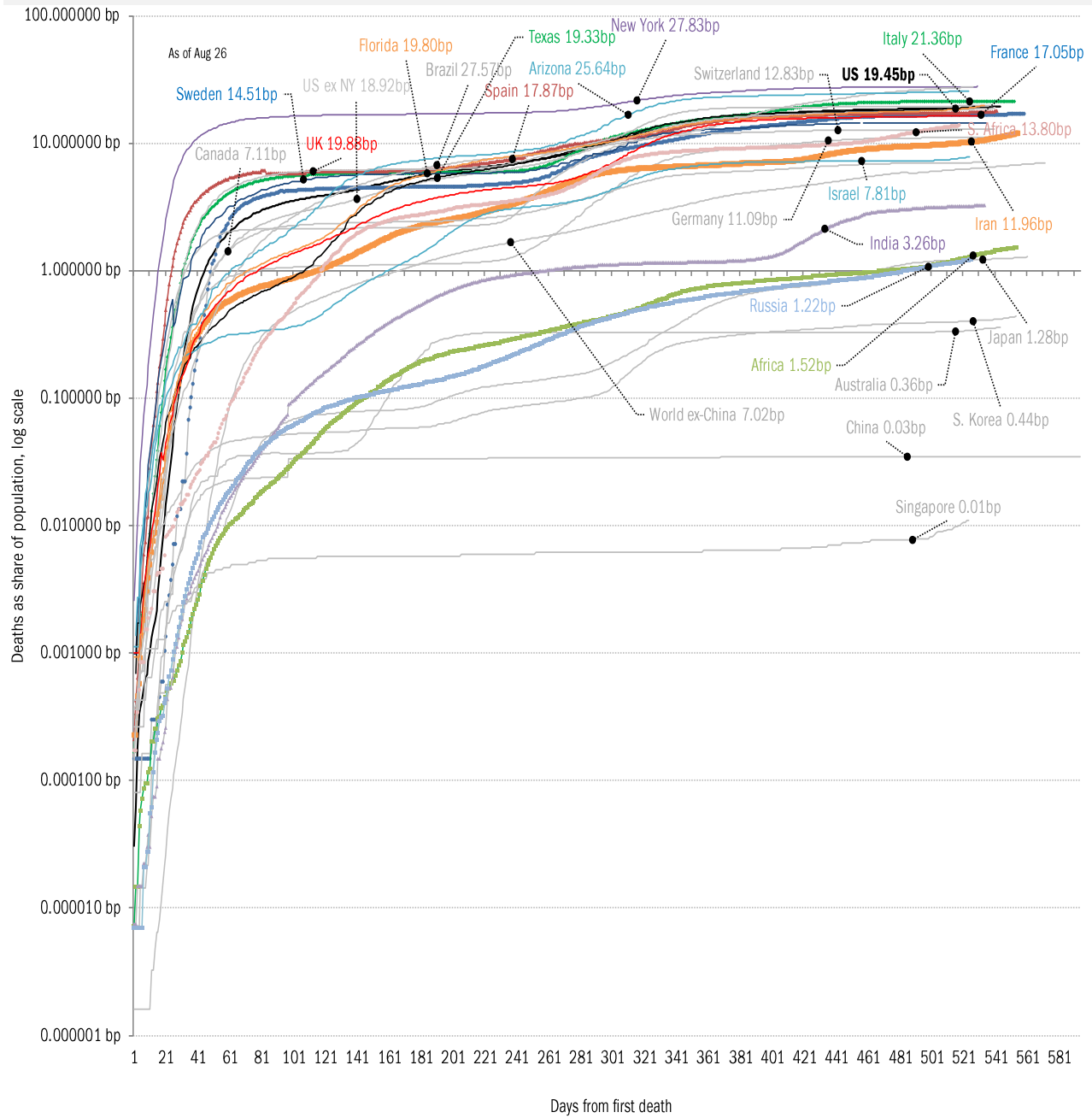
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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*



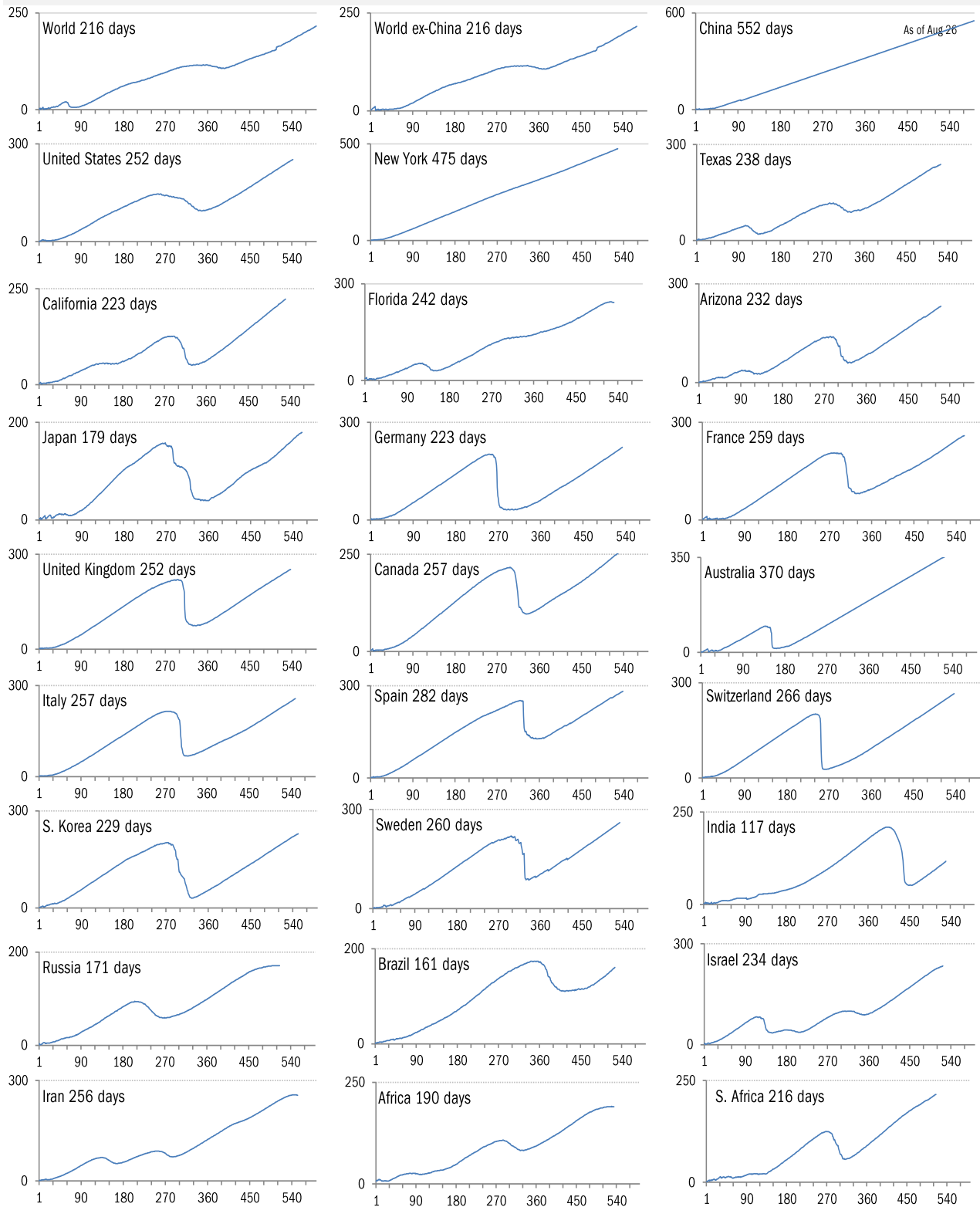
Source: [Johns Hopkins](#), TrendMacro calculations



# "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

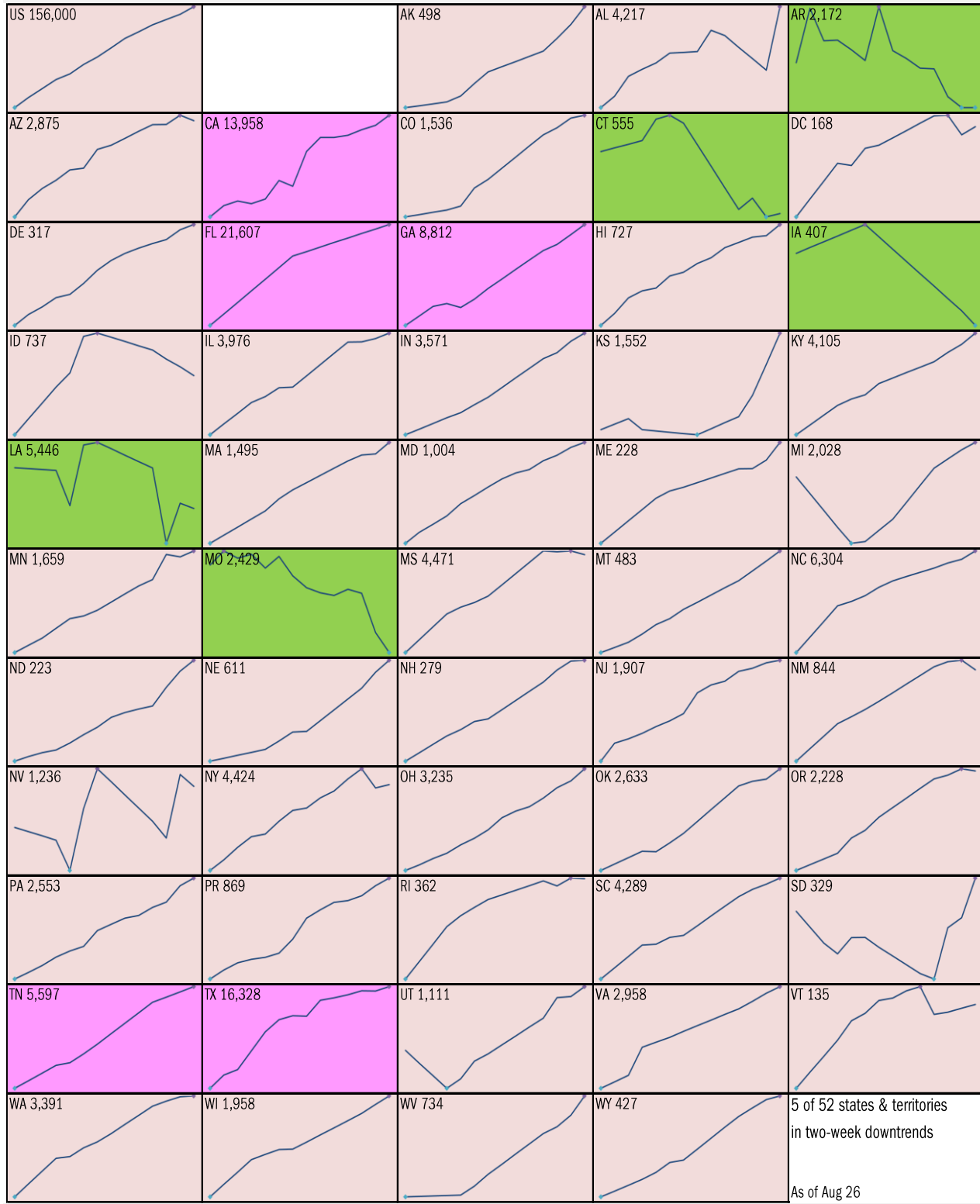


Source: [Johns Hopkins](#), TrendMacro calculations

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

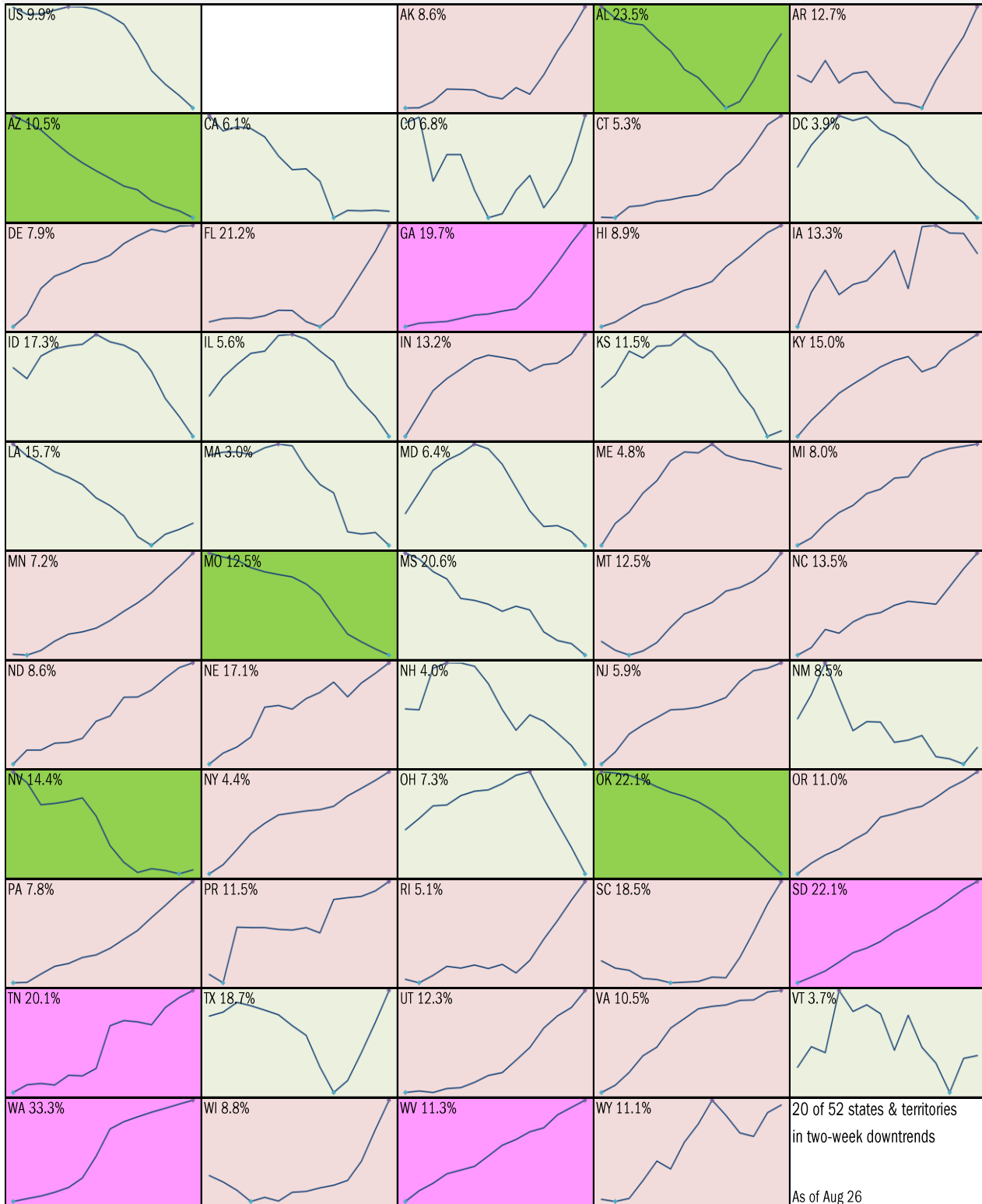


Source: [Johns Hopkins](#), TrendMacro calculations

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

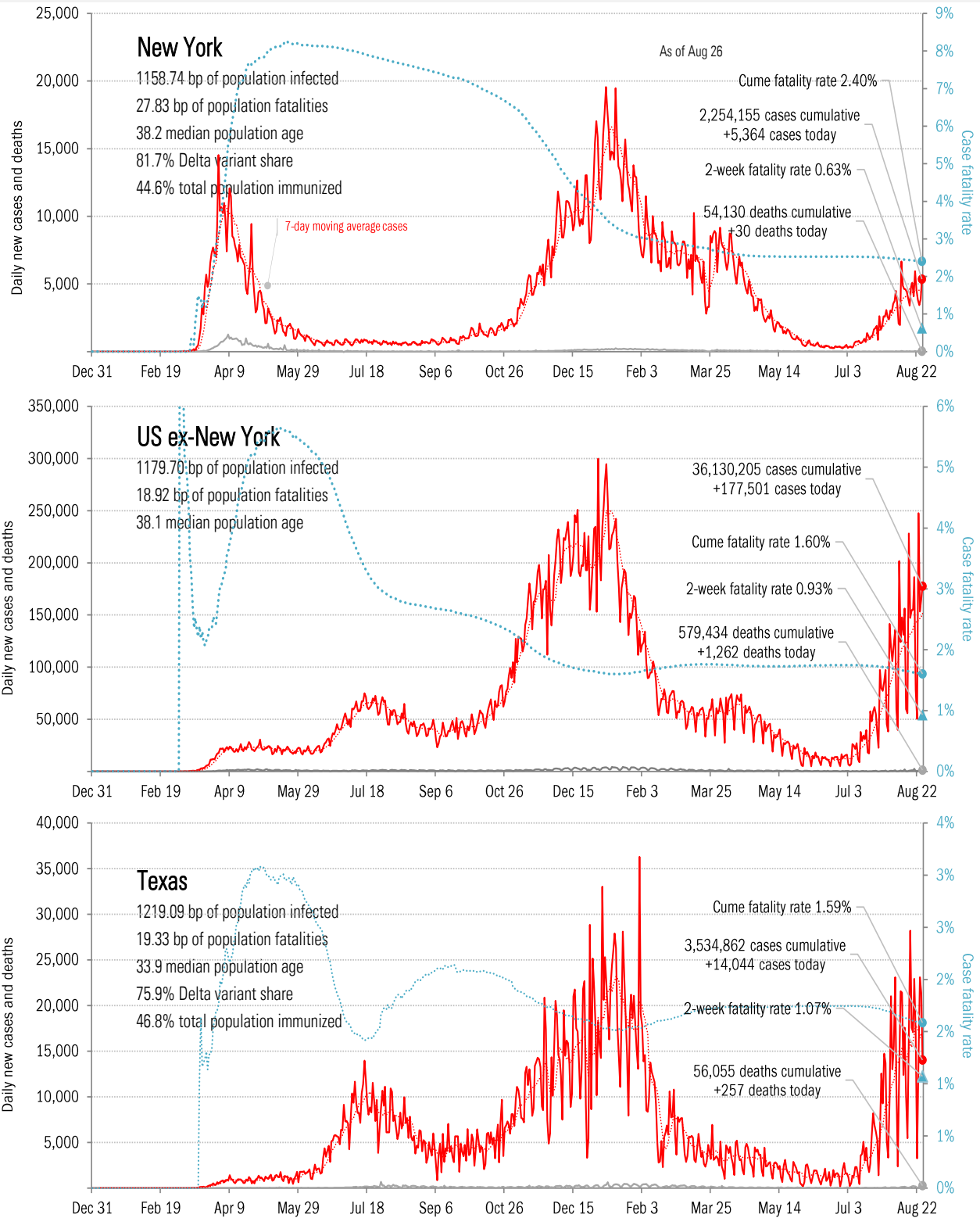
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



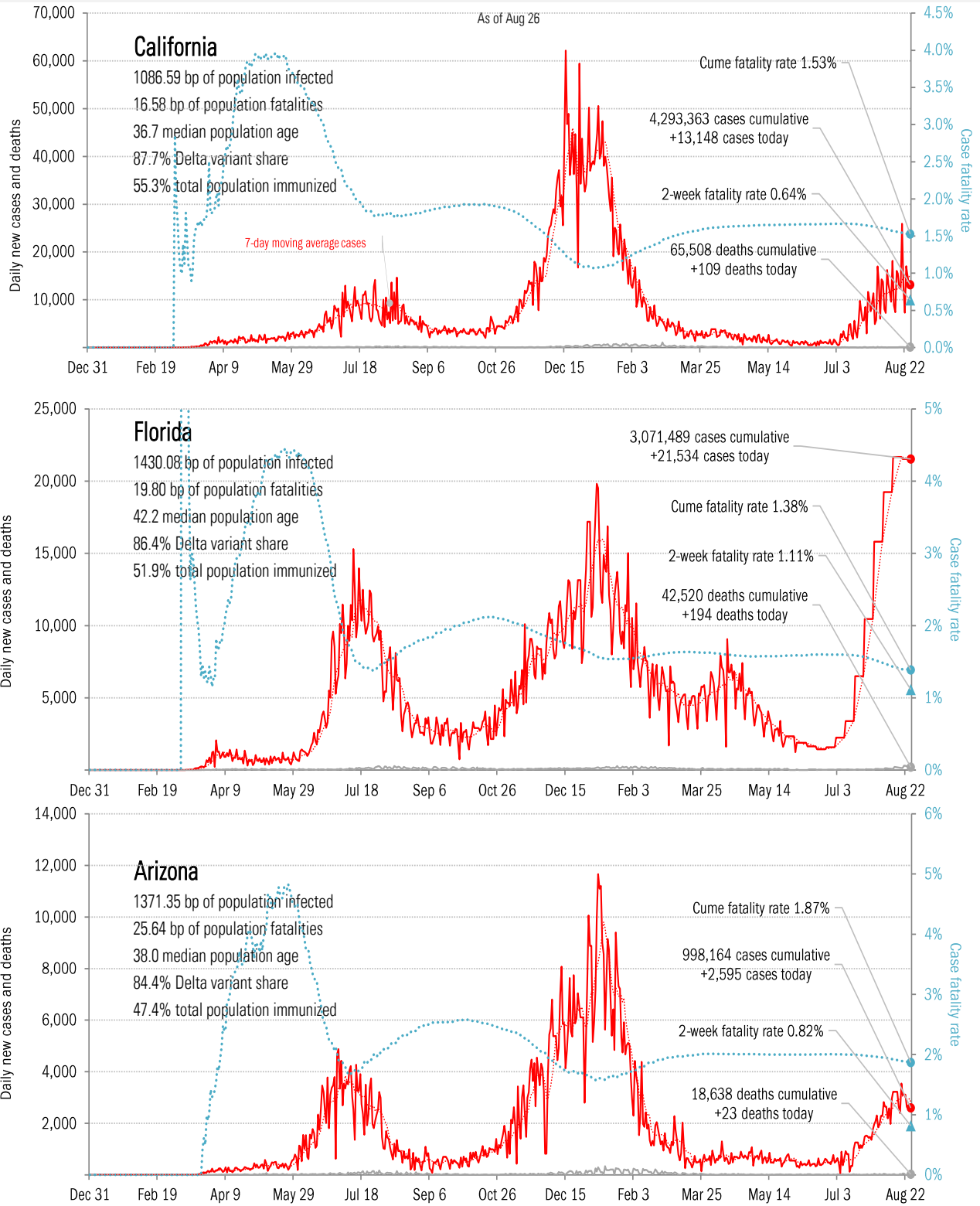
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



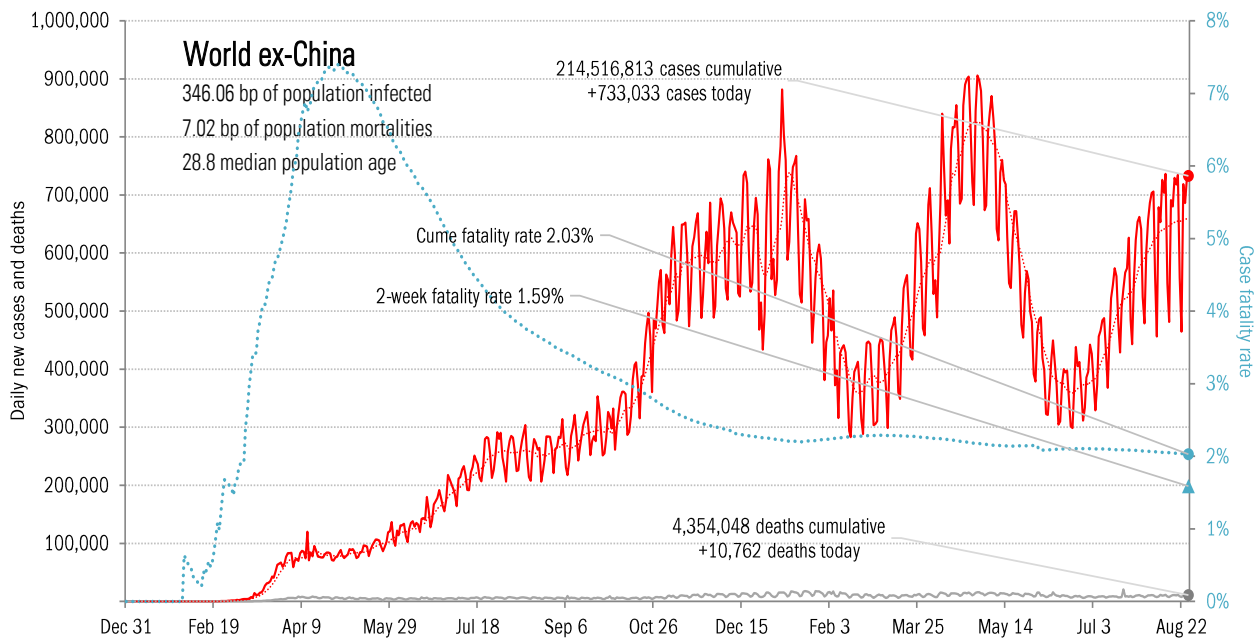
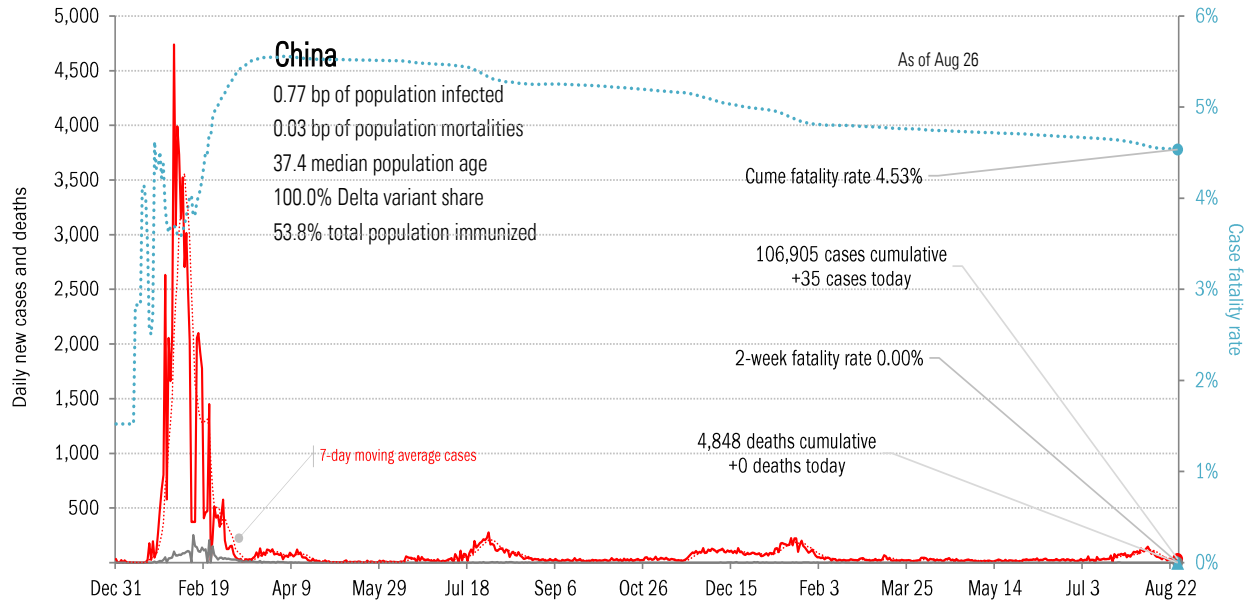
Source: [Johns Hopkins](#), TrendMacro calculations

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



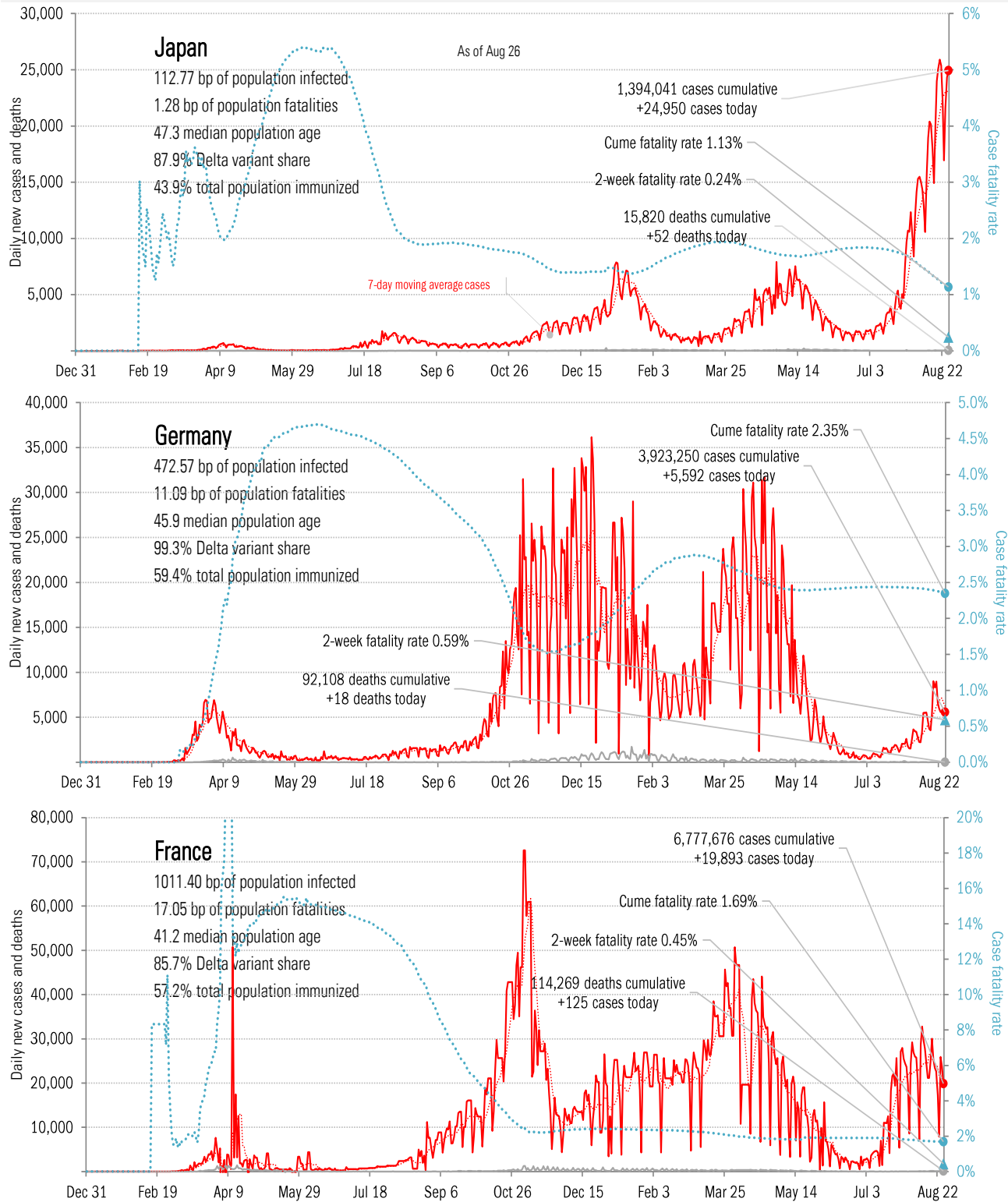
Source: [Johns Hopkins](#), TrendMacro calculations

# Patient zero... and then everyone else



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

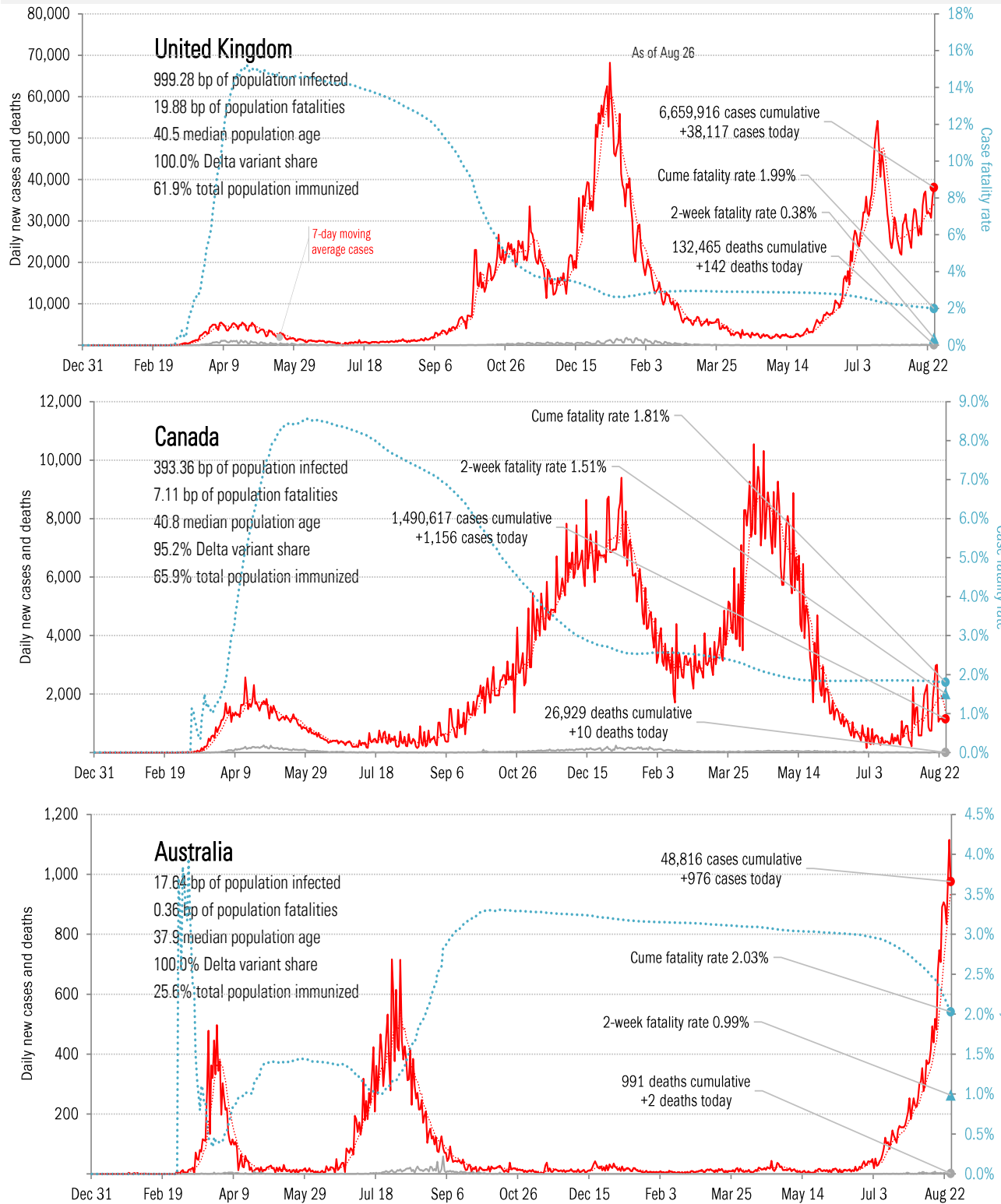
# Impact in the largest economies



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

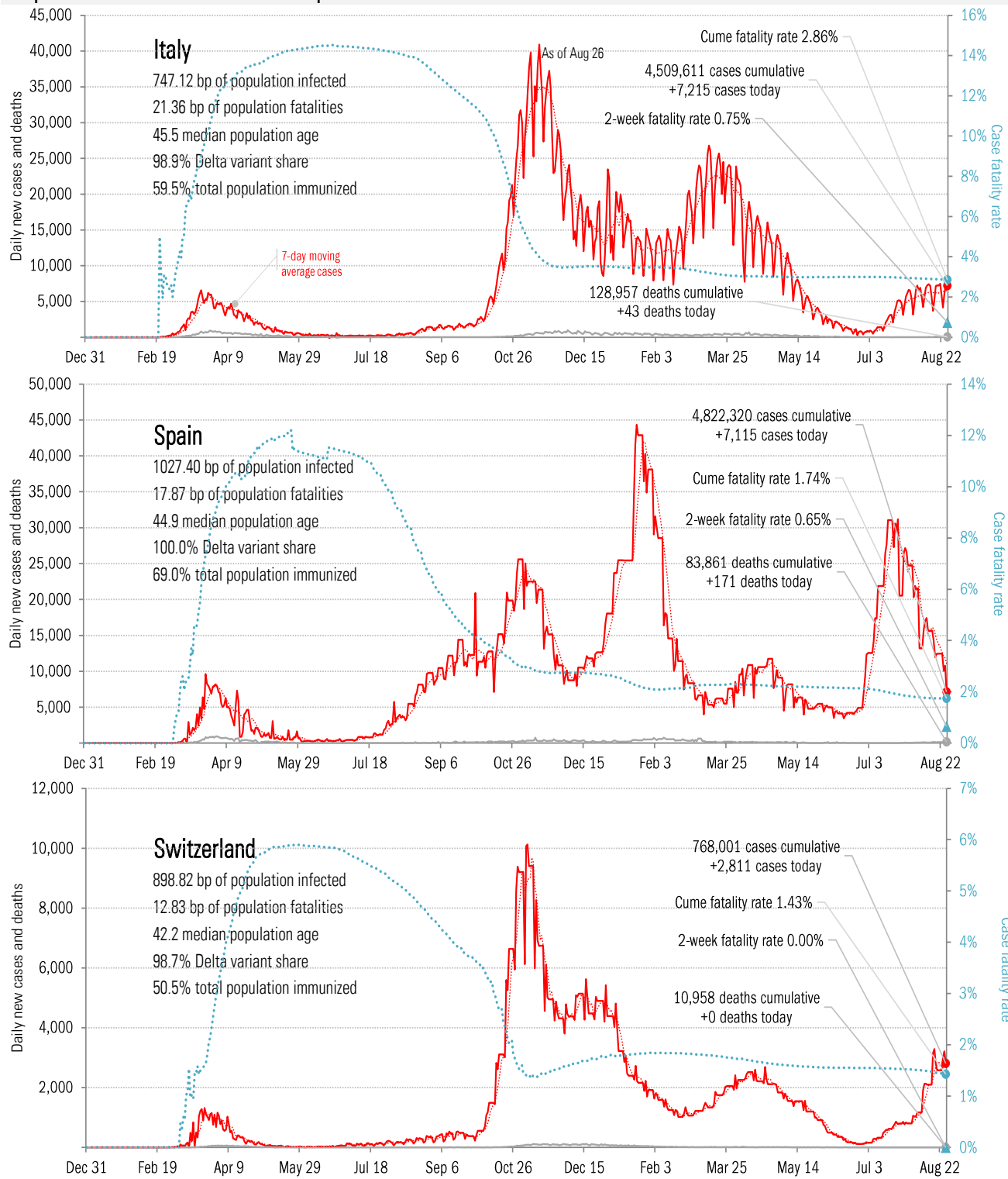


# Impact in The Anglosphere



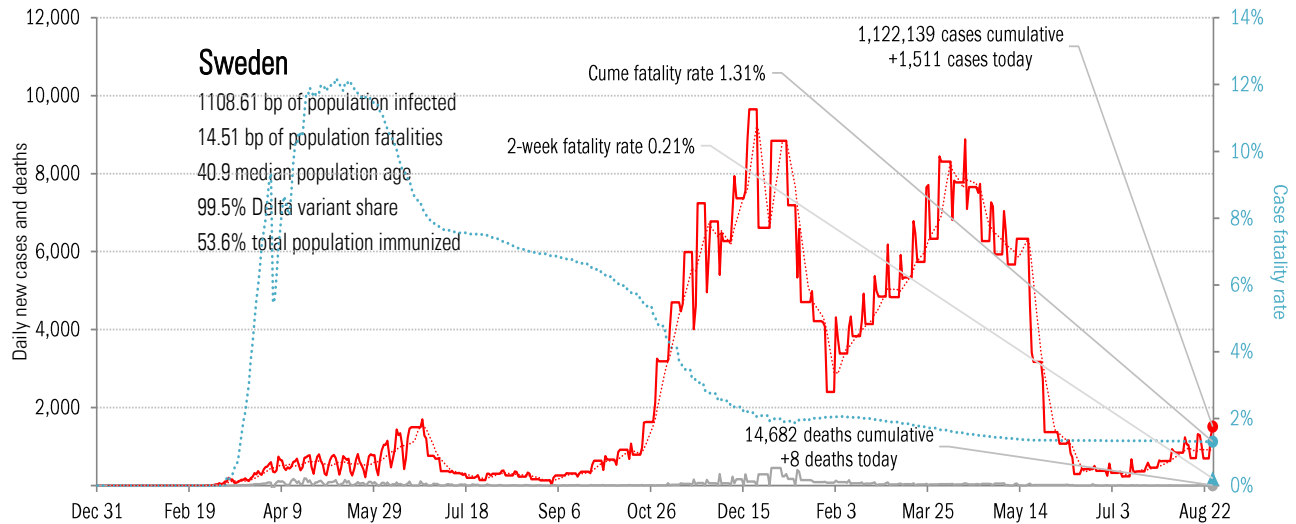
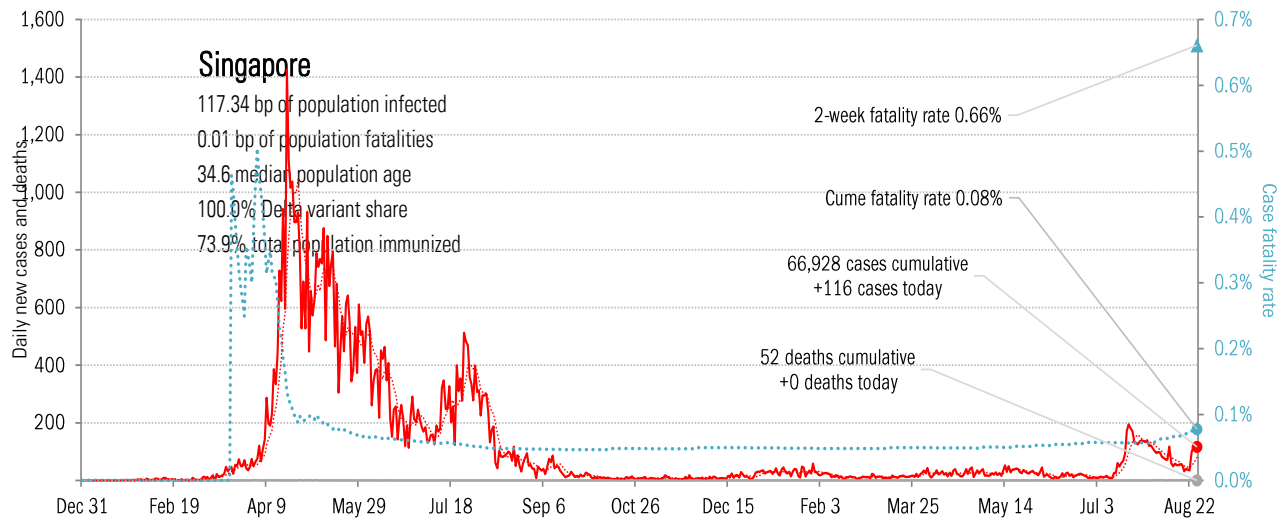
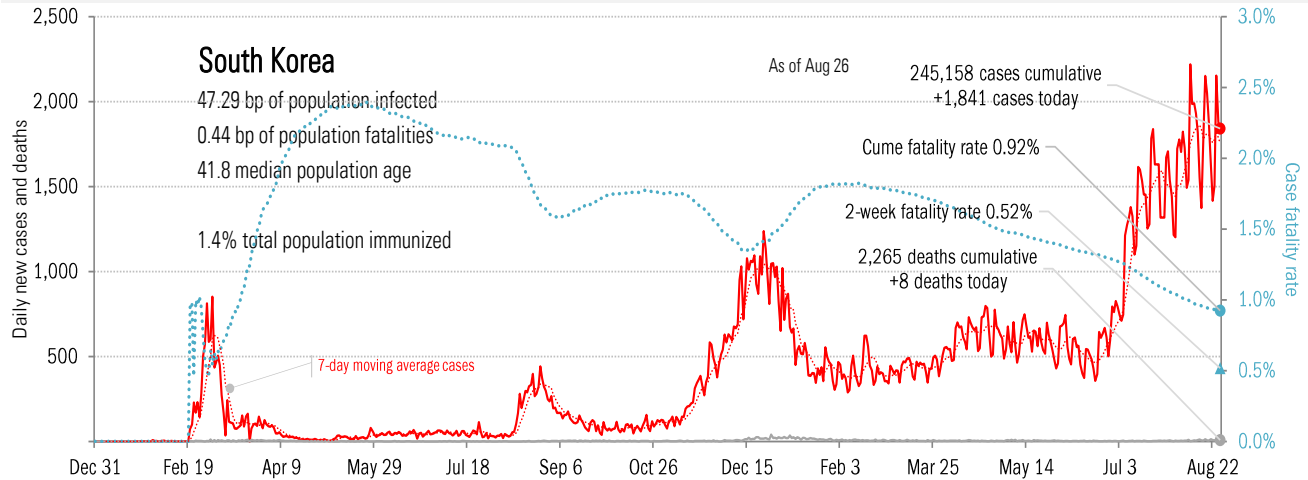
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in continental Europe



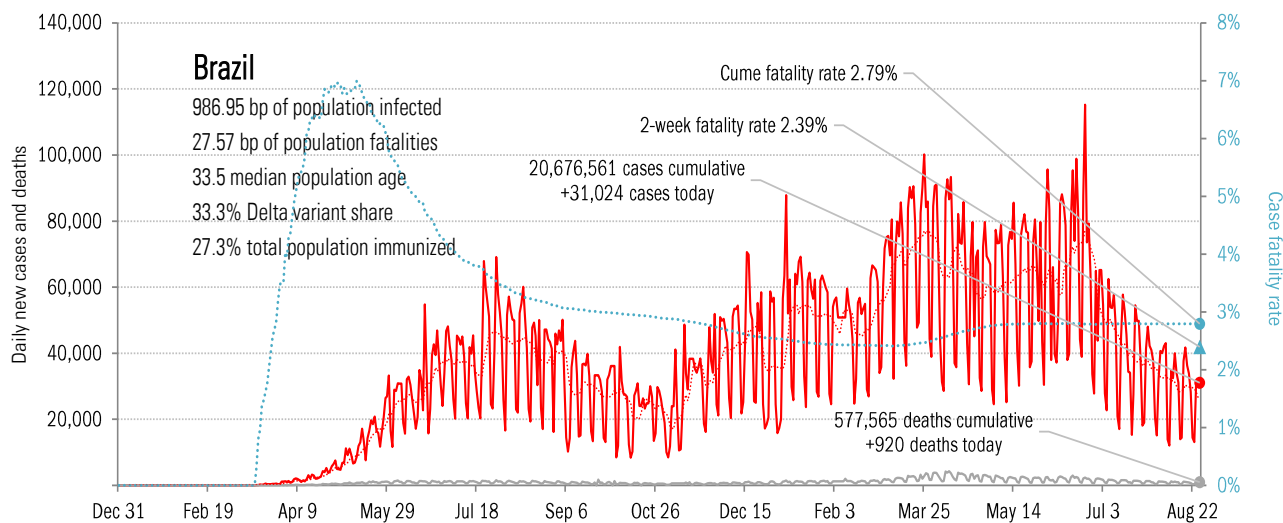
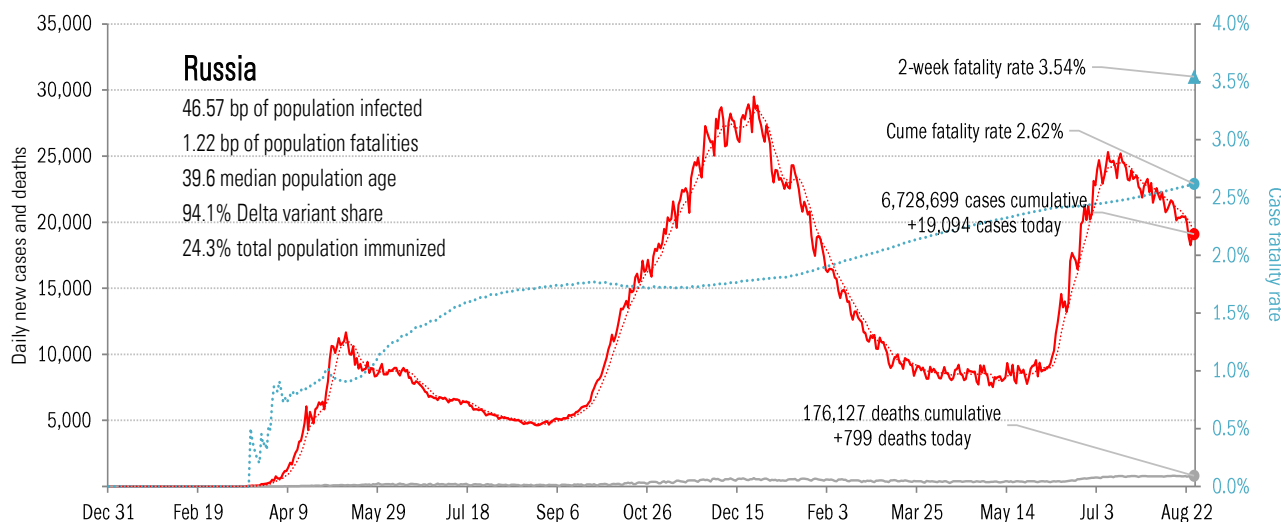
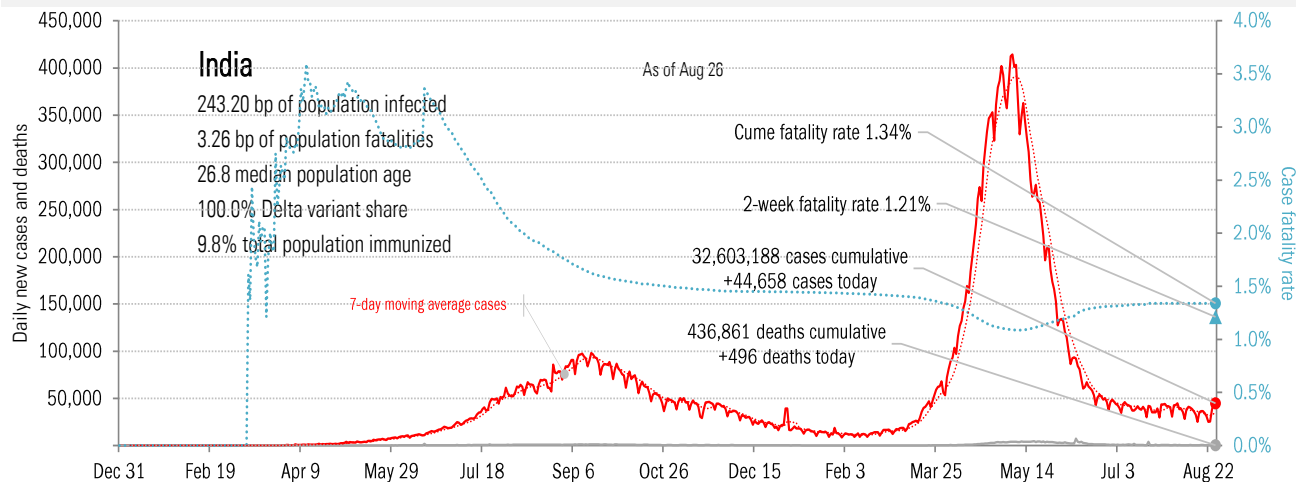
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



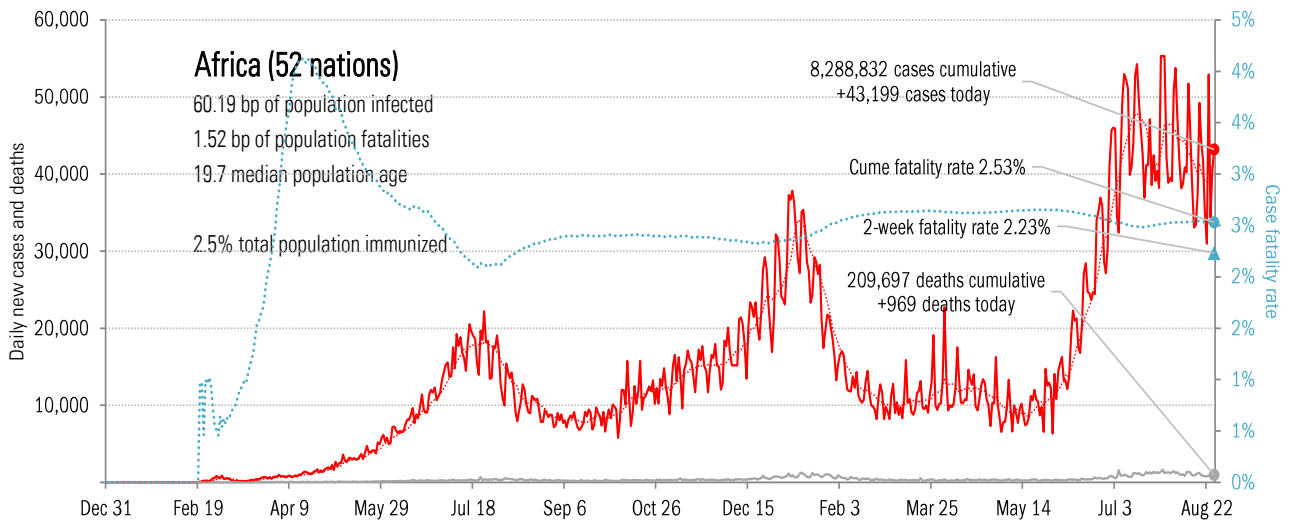
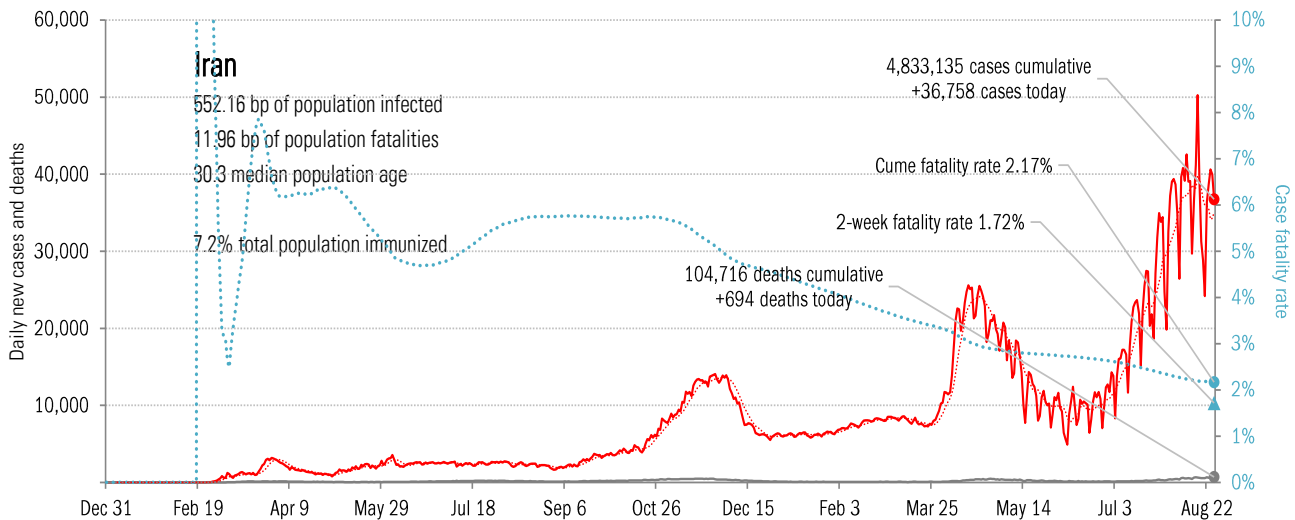
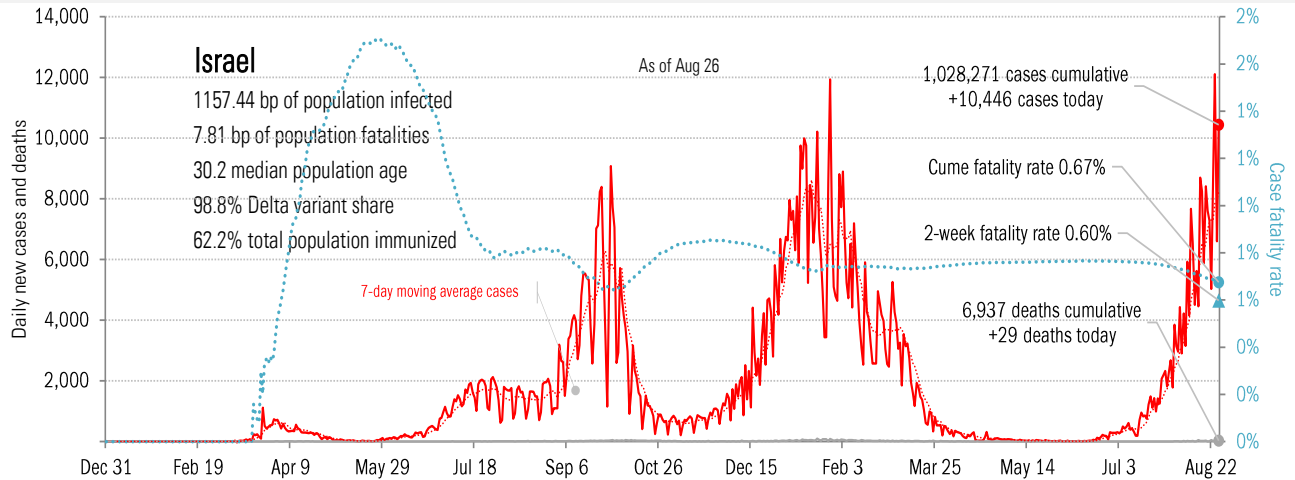
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



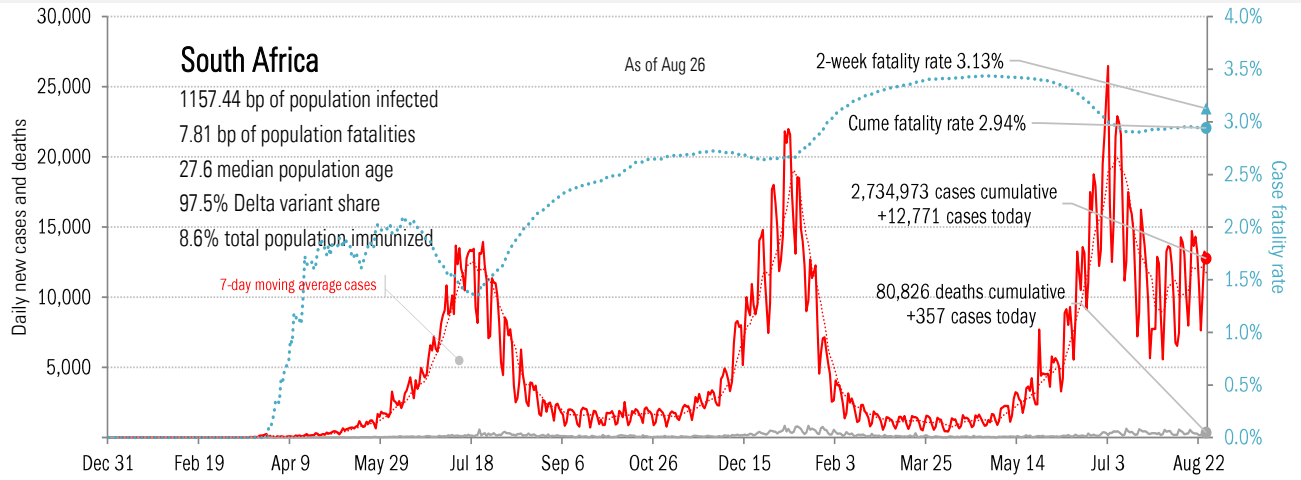
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

# Impact in Africa, continued



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