

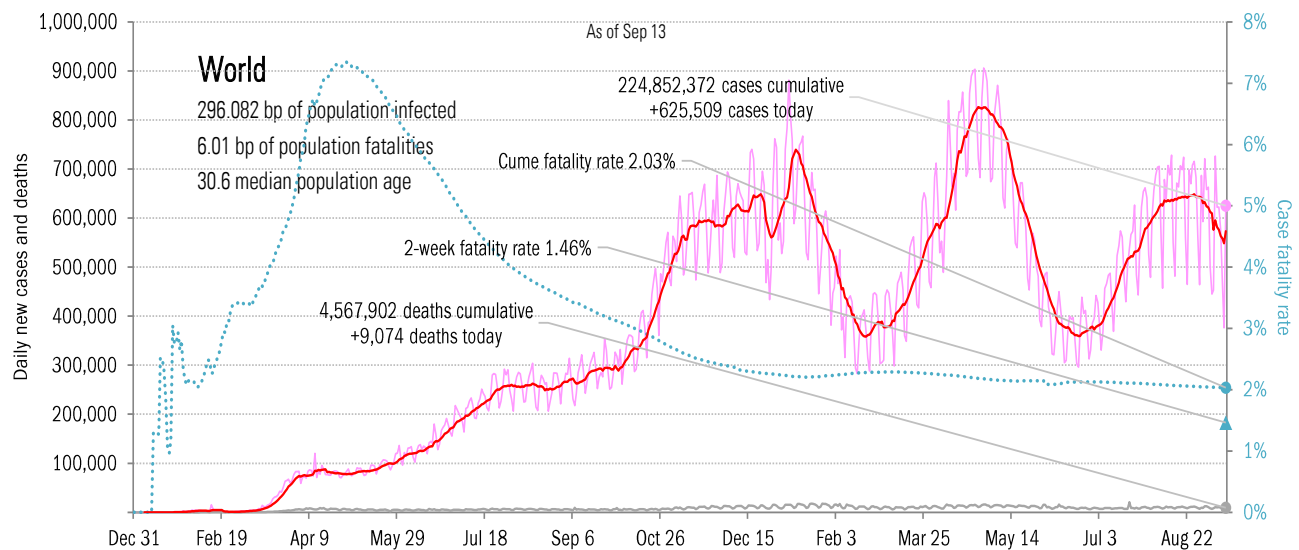
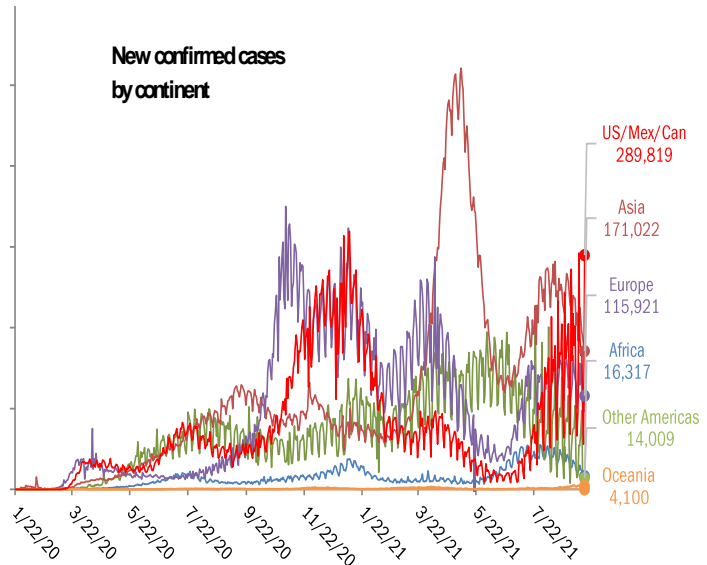
## Data Insights: Covid-2019 Monitor

Tuesday, September 14, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+276,370	United States	+2,204
United Kingdom	+30,416	Russia	+712
India	+25,404	Kazakhstan	+608
Turkey	+24,613	Iran	+448
Iran	+22,541	Malaysia	+413
Philippines	+20,704	Vietnam	+381
Russia	+17,861	India	+339
Malaysia	+16,073	Indonesia	+276
Thailand	+12,583	Argentina	+238
Israel	+11,800	Turkey	+231
<b>+458,365</b>		<b>+5,850</b>	
World	+625,509	World	+9,074
Top ten	73%	Top ten	64%



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

Cases: 7-day average and daily Deaths: Daily

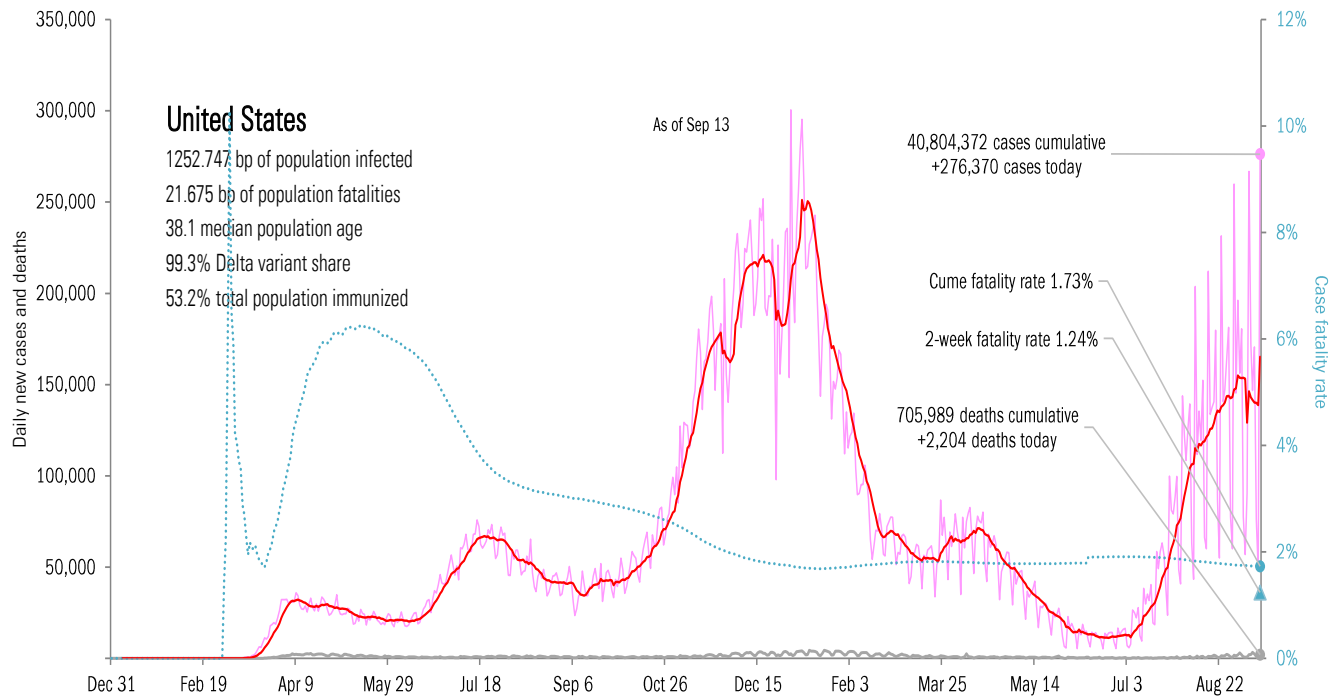
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
TN	+30,253		NC	+172		GA	+64		CA	4,489,433		CA	67,221		TX	339,864		GA	89%	AL	100%
NC	+23,890		GA	+159		KY	+42		TX	3,843,407		TX	60,330		FL	294,985		RI	87%	GA	99%
TX	+19,470		SC	+157		WI	+41		FL	3,035,806		NY	54,672		CA	288,729		MD	84%	TX	95%
SC	+18,276		TX	+128		UT	+27		NY	2,340,950		FL	43,883		NY	150,807		FL	83%	AR	93%
CA	+16,674		CA	+121		ID	+26		IL	1,573,538		PA	28,568		GA	144,898		CT	82%	MS	92%
GA	+15,902		TN	+117		CR	+24		GA	1,500,176		NJ	27,079		CH	103,163		MA	82%	FL	90%
FL	+14,321		IL	+106		MO	+23		PA	1,350,719		IL	26,800		PA	101,364		MO	81%	KY	90%
IN	+10,169		MS	+71		MN	+22		CH	1,304,193		GA	23,900		KY	101,249		MI	81%	OK	88%
KY	+9,943		FL	+68		MT	+17		NC	1,303,390		MI	21,854		IL	96,074		PA	81%	DE	88%
WA	+9,428		KY	+68		KS	+16		TN	1,154,966		CH	21,154		MI	80,083		MN	81%	ID	87%
+168,326			+1,167			+302			21,896,578			375,461			1,701,216						
All states	+276,370		+1,725			-418			All states	40,804,372		705,989			3,012,197			All states	70%	67%	
Top ten	61%		68%			-72%			Top ten	54%		57%			56%			Median	74%	79%	

Some states not reporting

## Five most improved US states

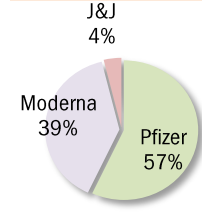
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
WV	-827	TX	-13	TN	-105	AL	+20 bp
AZ	-487	H	-7	SC	-88	FL	+20 bp
AR	-470	AR	-4	NY	-85	KY	+20 bp
NJ	-302	AZ	-4	PA	-68	NM	+20 bp
MO	-275	MD	-4	NJ	-46	SC	+20 bp



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	391,542,070		+0.601 million		US	53.2%	62.4%	
	One dose	% Pop	Immune	% pop	New immune today	UK	64.6%	71.0%
Total population	214,784,759	64%	183,505,900	55%	+0.292 million	France	63.1%	73.3%
Age 12 to 17	13,143,827	55%	10,350,379	44%	+0.055 million	Spain	75.5%	79.6%
Age 18 to 64	148,191,035	73%	125,642,428	62%	+0.244 million	Germany	61.6%	65.9%
Age 65 and over	52,405,999	96%	46,661,698	85%	+0.008 million	Italy	64.2%	72.6%
						Australia	33.8%	54.6%
						Israel	63.2%	68.8%
						Canada	68.6%	74.6%
						Japan	51.7%	63.9%
						Africa	3.6%	5.8%
						India	12.9%	40.9%
						Brazil	34.0%	66.5%
						China	67.2%	75.8%



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



Every American >18 immune in **163 days** by Feb 22, 2022  
 66.7% of population >18 immunized  
 13.9% previously tested positive  
**80.6%** vs 60% adult herd immunity

As of Sep 13

Global data differs from sources, timing

AK
55.9%
48.4%

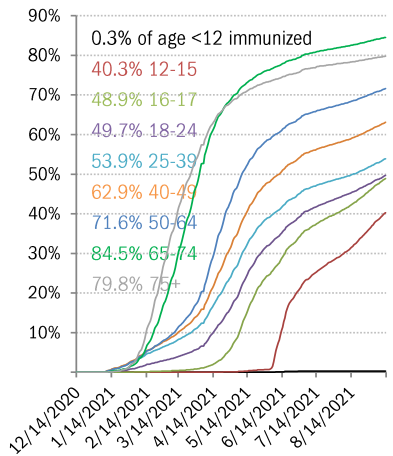
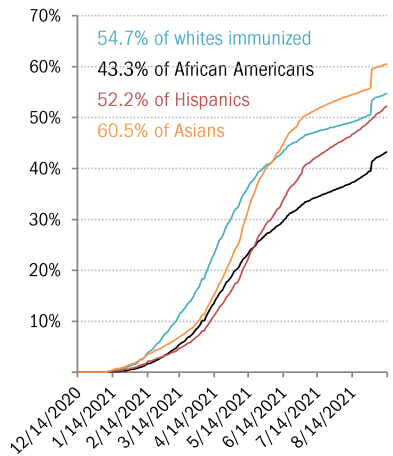
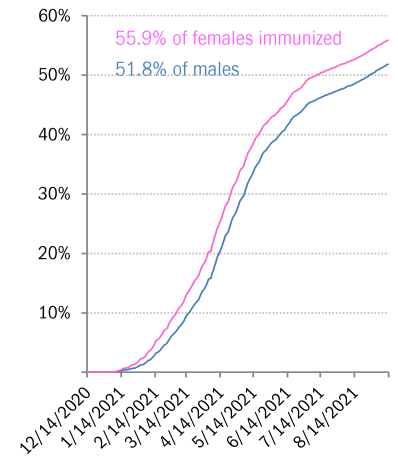
WI
59.8%
55.1%

ME
72.6%
66.8%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
69.4%	45.5%	53.3%	49.7%	62.7%	67.2%	55.9%	69.2%	76.9%	68.3%	
61.3%	40.2%	47.1%	42.7%	57.0%	52.2%	51.2%	61.8%	68.7%	60.6%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
65.4%	59.3%	46.8%	57.5%	57.0%	51.1%	53.4%	70.8%	71.2%	76.3%	
59.2%	49.2%	39.9%	50.2%	52.6%	47.1%	49.3%	56.4%	62.7%	66.9%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
70.2%	57.5%	64.4%	58.2%	53.7%	58.9%	47.5%	66.7%	69.3%	74.8%	73.3%
57.2%	48.8%	58.0%	53.1%	46.4%	50.2%	40.0%	58.6%	62.7%	67.2%	66.2%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	58.1%	71.3%	58.6%	54.6%	51.0%	57.6%	53.4%	68.8%	65.1%	
	49.8%	61.4%	49.6%	43.8%	43.2%	47.9%	45.1%	58.5%	56.4%	
			OK	LA	MS	AL	GA			
			55.0%	50.6%	48.5%	51.4%	52.8%			
			45.6%	43.4%	40.8%	40.4%	42.8%			
			TX							
			58.4%							
			49.1%							
								FL		PR
								65.5%		77.3%
								55.2%		66.9%

HI
75.6%
56.4%

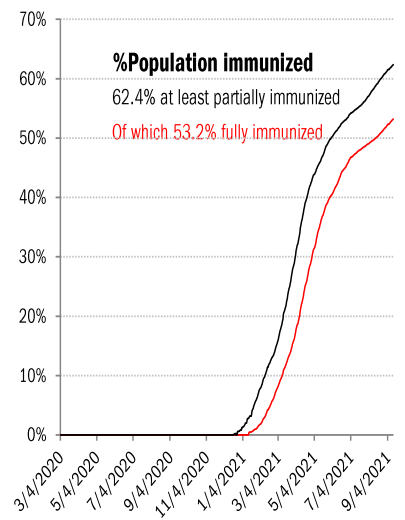
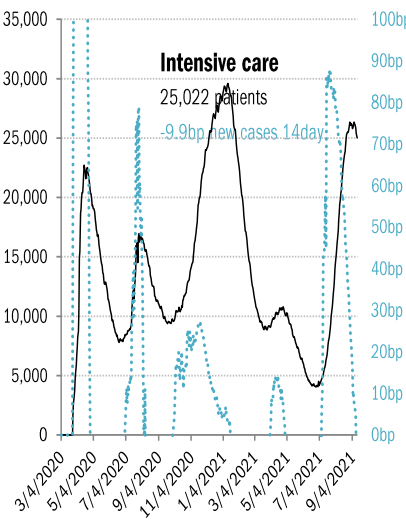
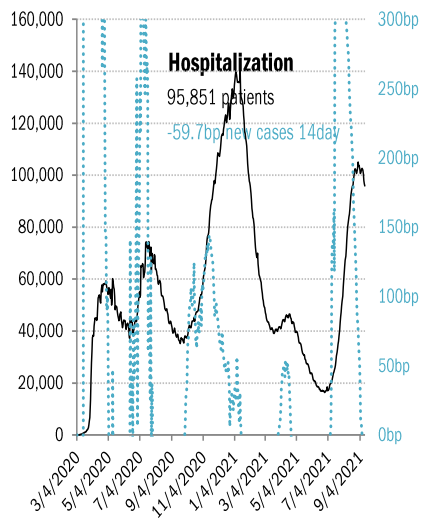
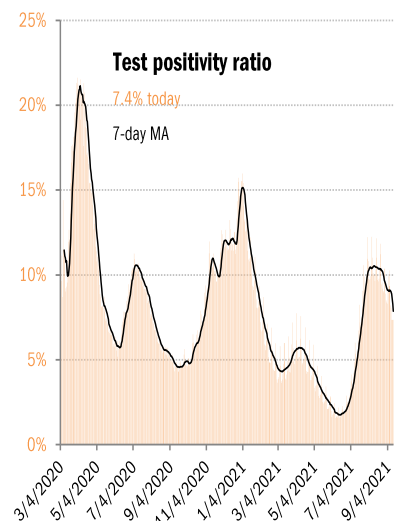
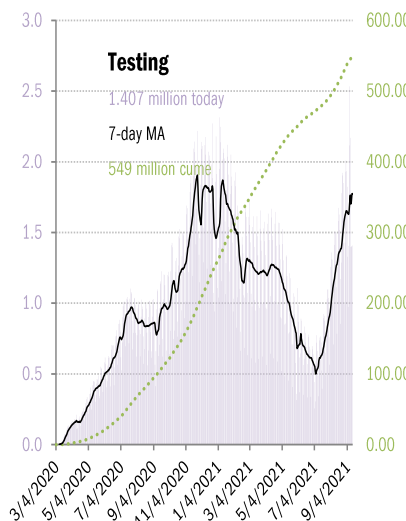
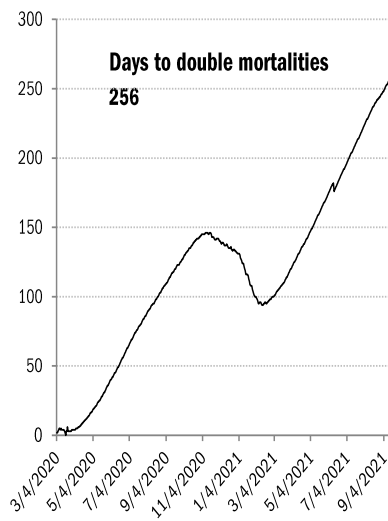
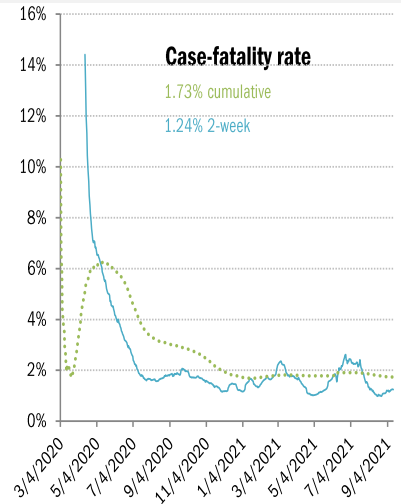
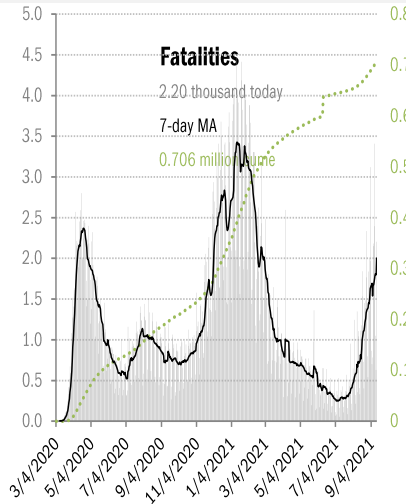
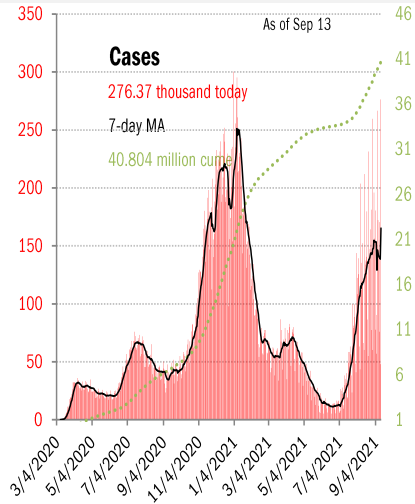
## The demographics of US vaccination



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

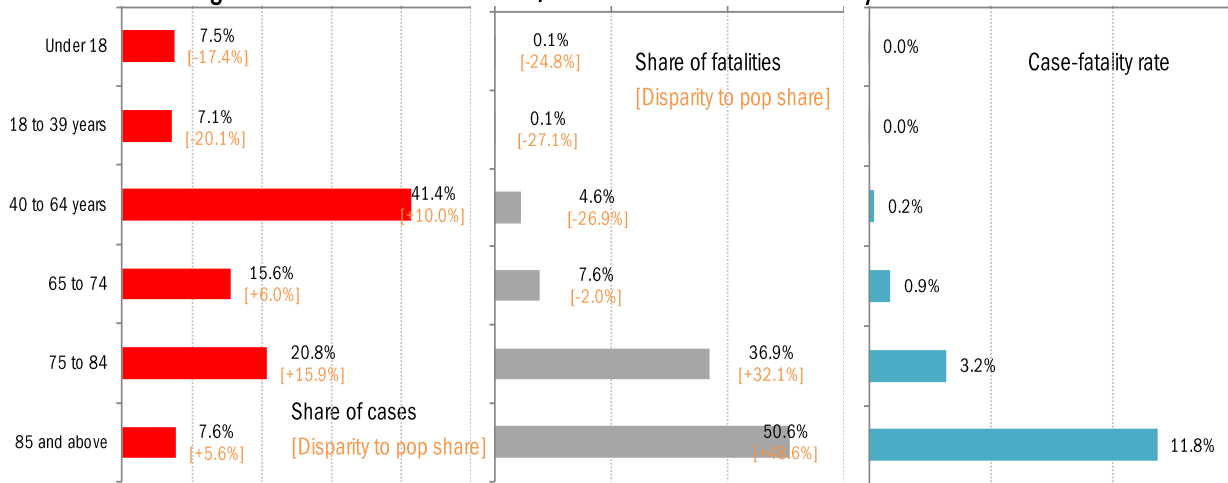
# US deep-dive

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

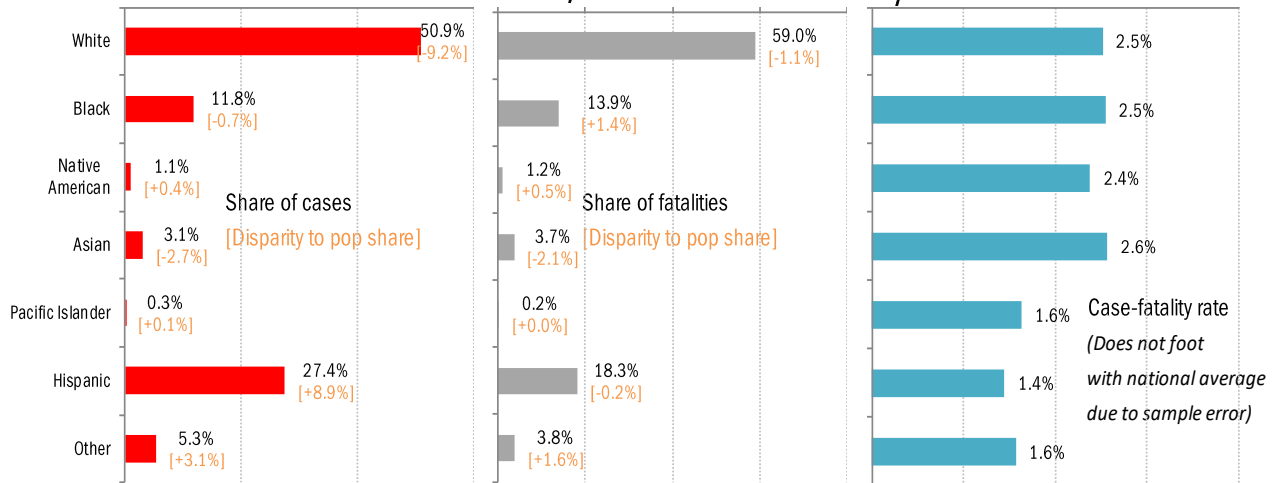


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

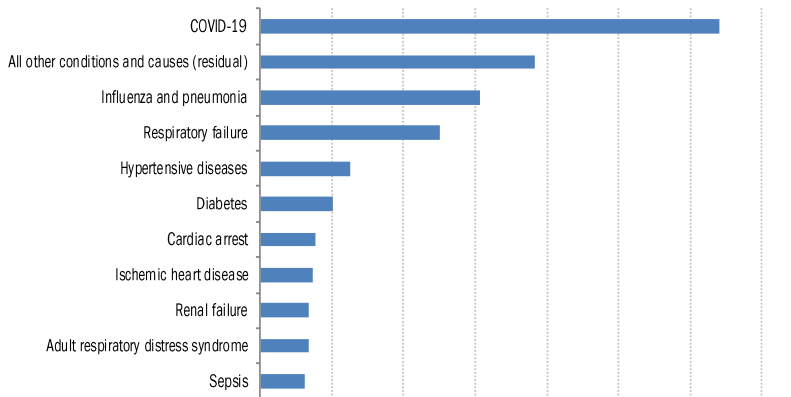


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Sep 5

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

### [Where the Covid Origin Inquiry Goes Now](#)

*Wall Street Journal*  
September 13, 2021

### [Covid Confusion at the CDC](#)

Marty Makary  
*Wall Street Journal*  
September 13, 2021

### [NYC's Covid-19 Vaccination Proof Mandate for Restaurants and Dining: What to Know](#)

Heather Haddon  
*Wall Street Journal*  
September 13, 2021

### [In Review, Top F.D.A. Scientists Question Imminent Need for Booster Shots](#)

Noah Weiland and Apoorva Mandavilli  
*New York Times*  
September 13, 2021

### [The J.&J. Conundrum](#)

David Leonhardt and Ian Prasad Philbrick  
*New York Times*  
September 13, 2021

### [26 out of the 27 Lancet scientists who trashed theory that Covid leaked from a Chinese lab have links to Wuhan researchers](#)

Chris Jewers  
*Daily Mail*  
September 11, 2021

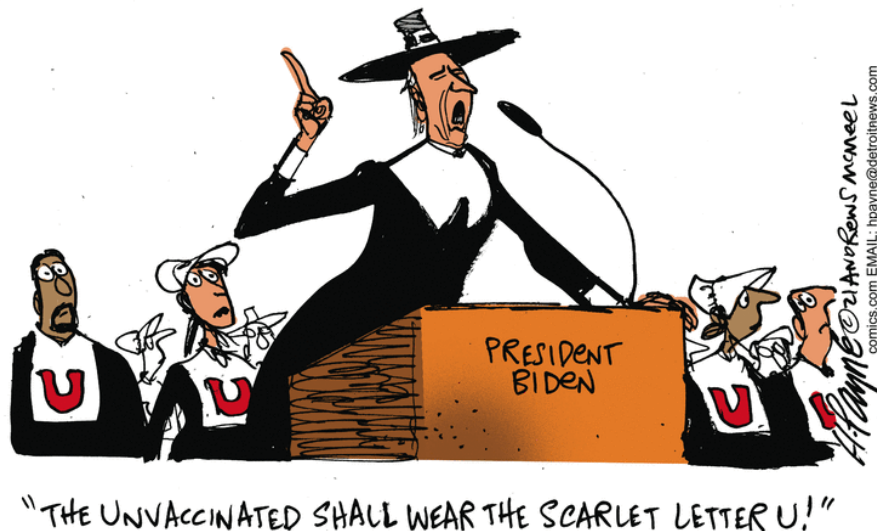
### [Analysis of the Effects of COVID-19 Mask Mandates on Hospital Resource Consumption and Mortality at the County Level](#)

Steven G. Schauer  
*NCBI*  
September 3, 2021

### [Five Tentative Thoughts About The OSHA Employer Vaccine Mandate](#)

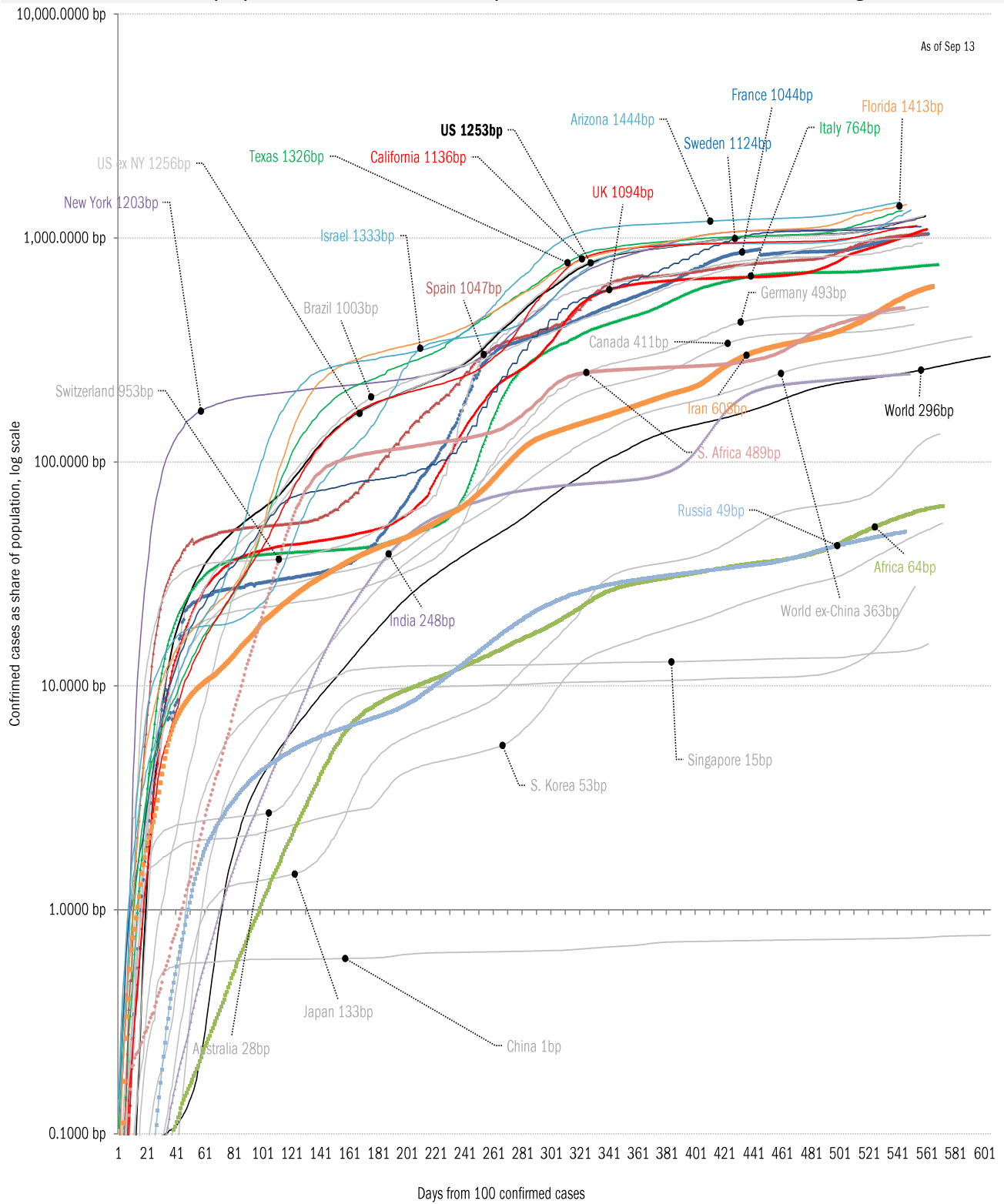
Josh Blackman  
*Reason*

## Meme of the day



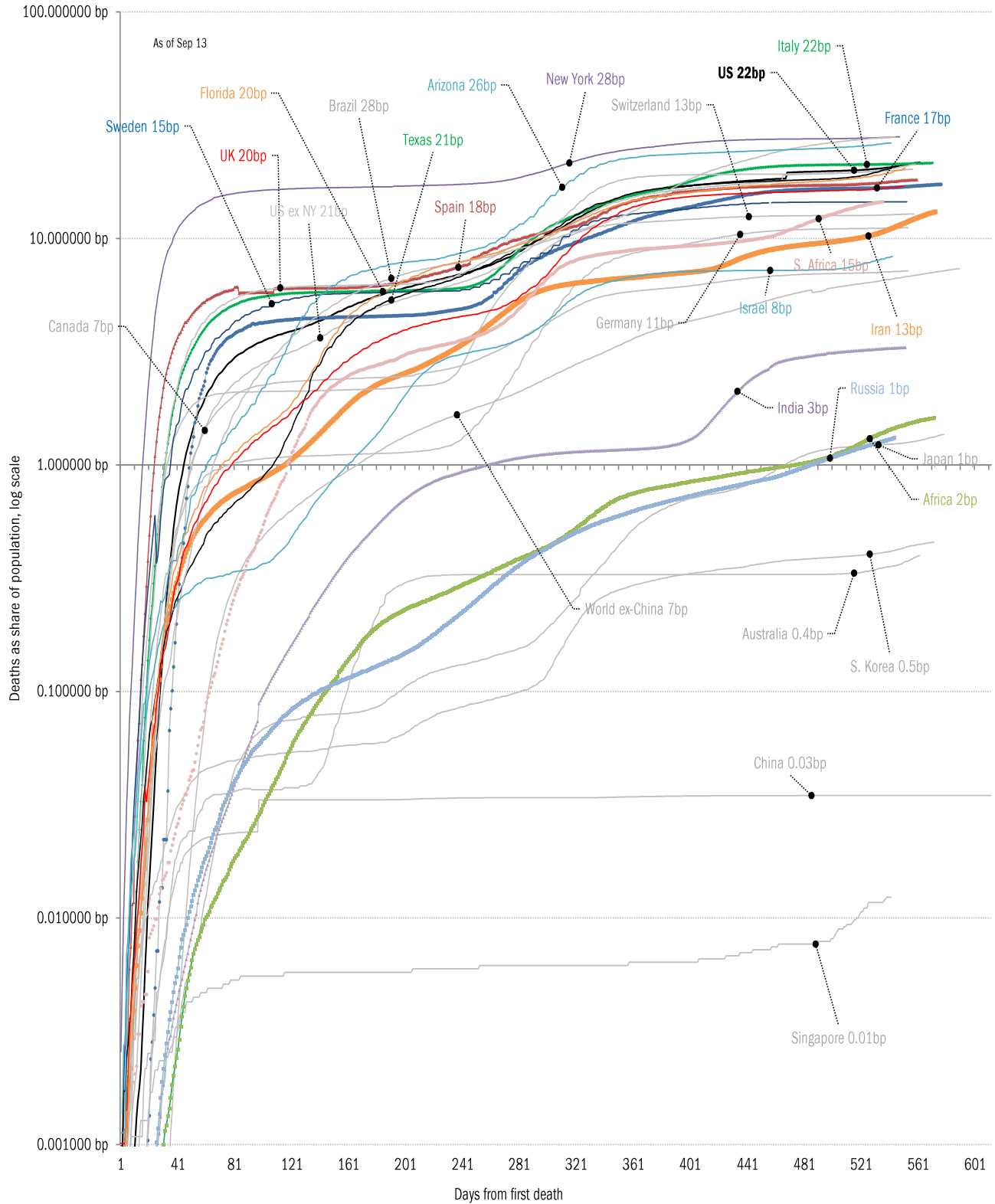
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



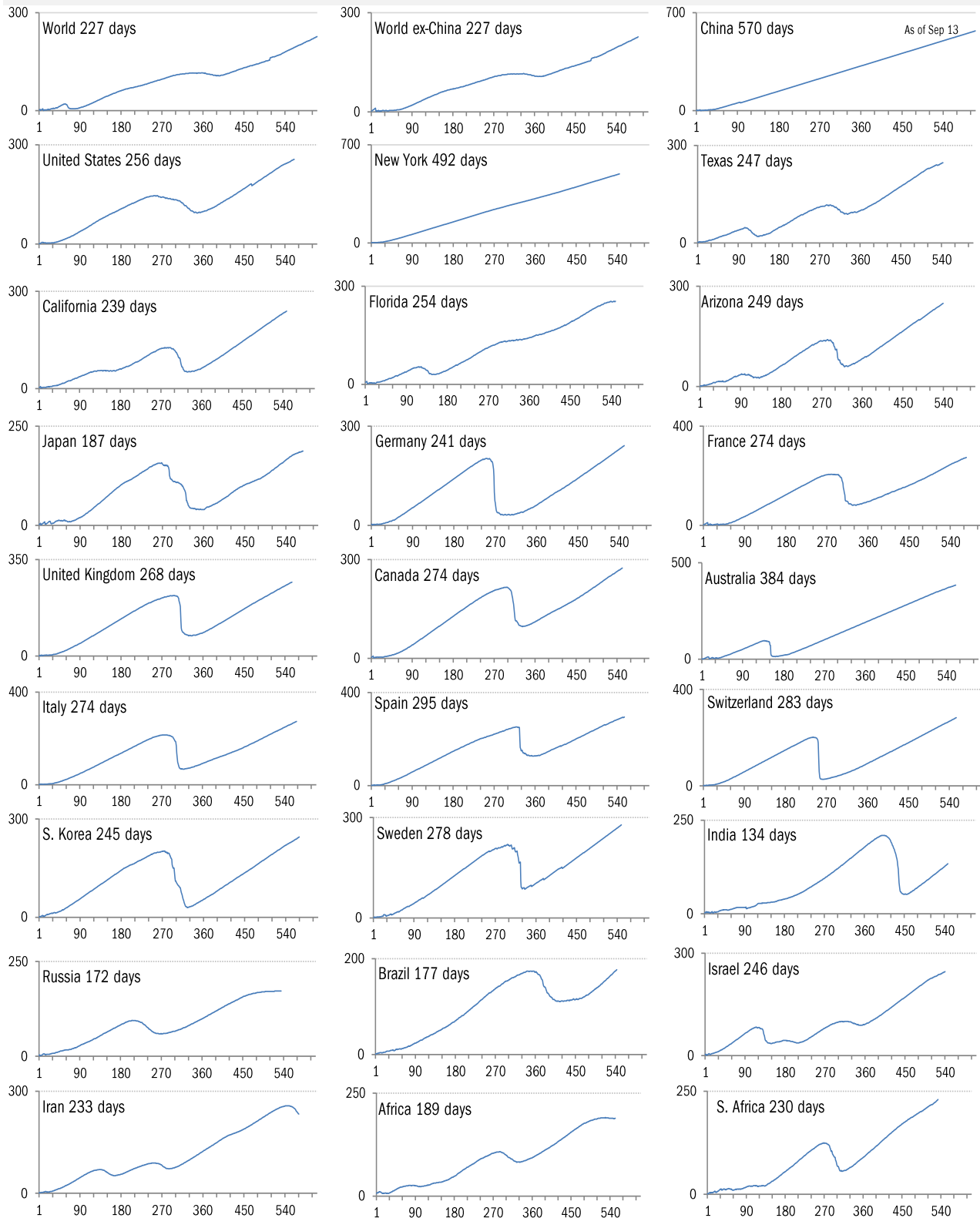
Source: [Johns Hopkins](#), TrendMacro calculations



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

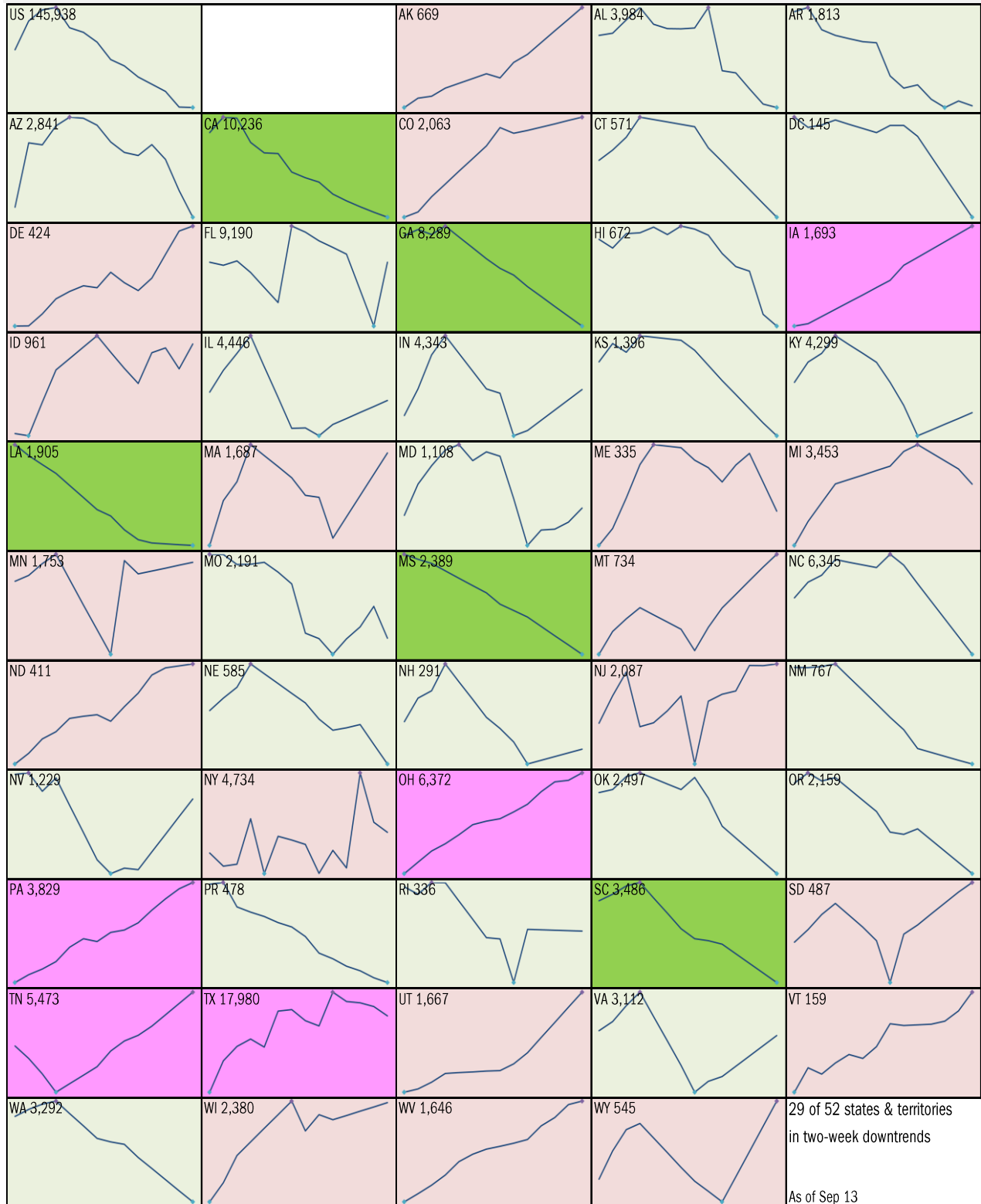


Source: [Johns Hopkins](#), TrendMacro calculations

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

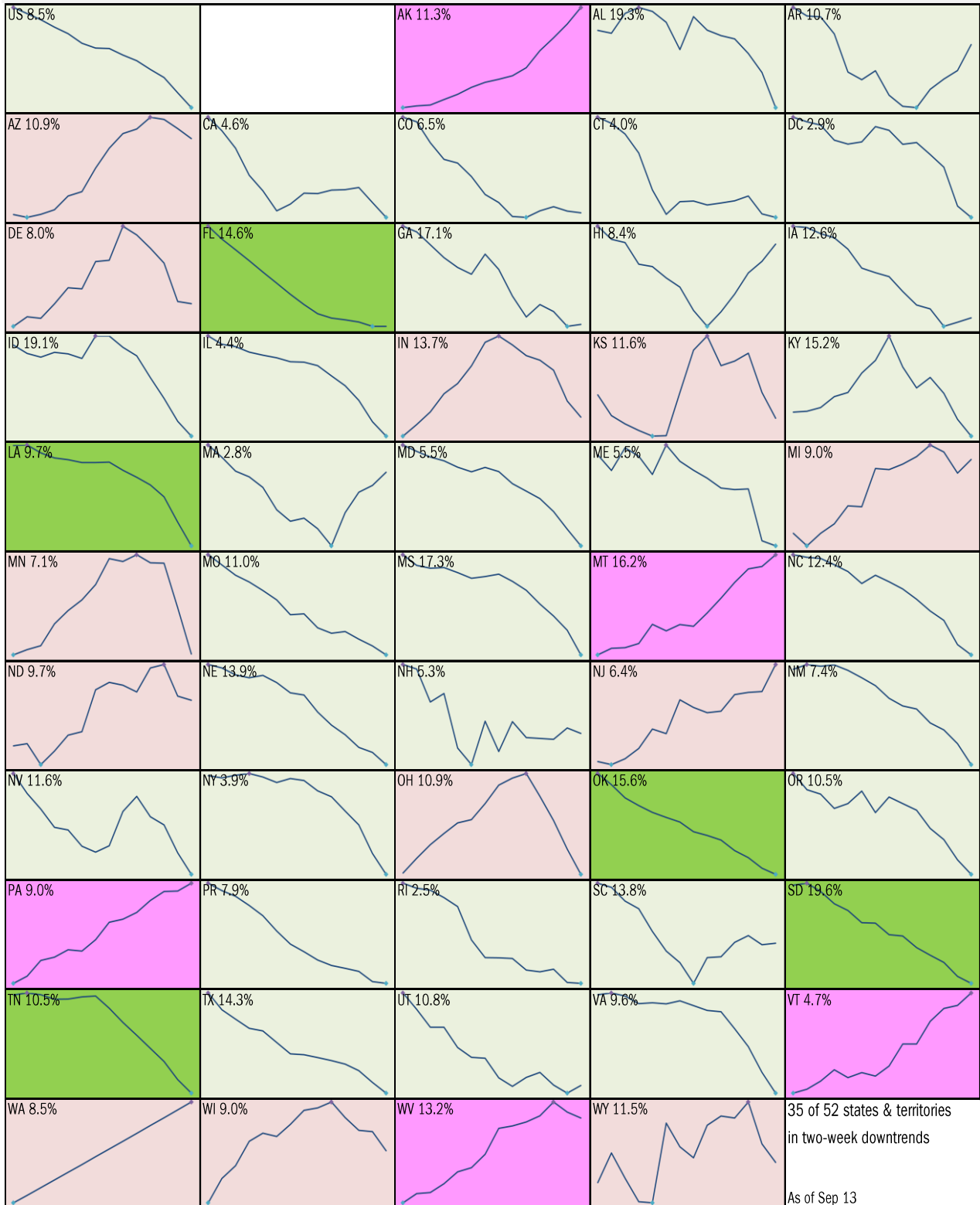


Source: [Johns Hopkins](#), TrendMacro calculations

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

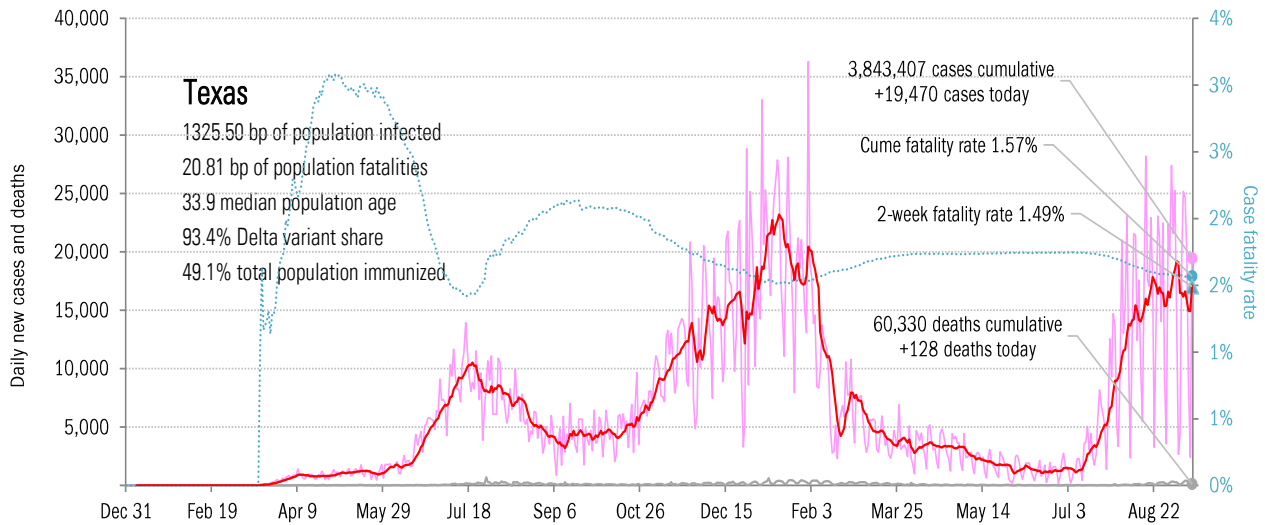
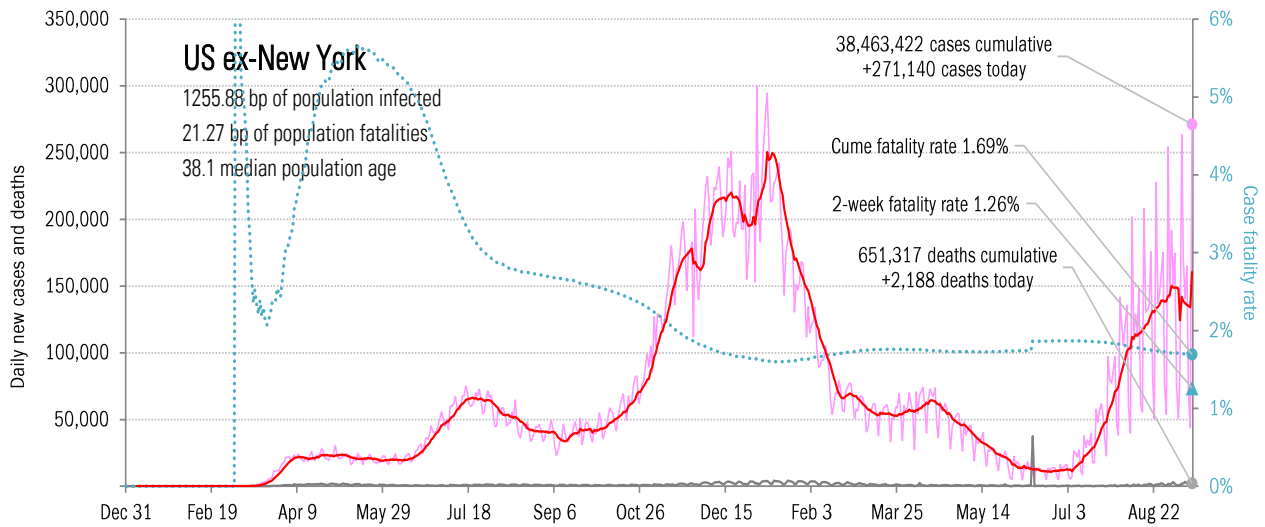
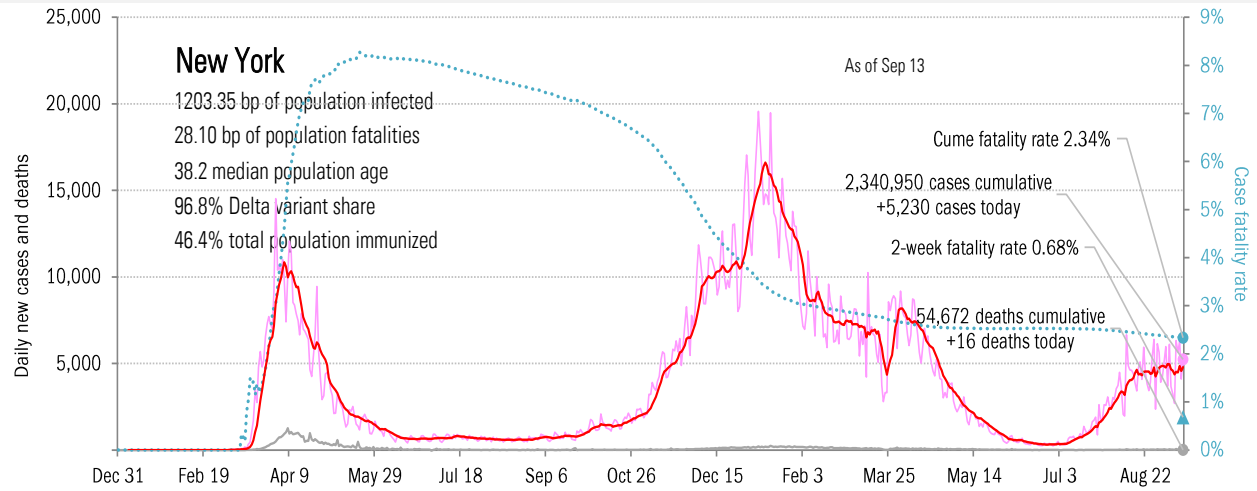
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

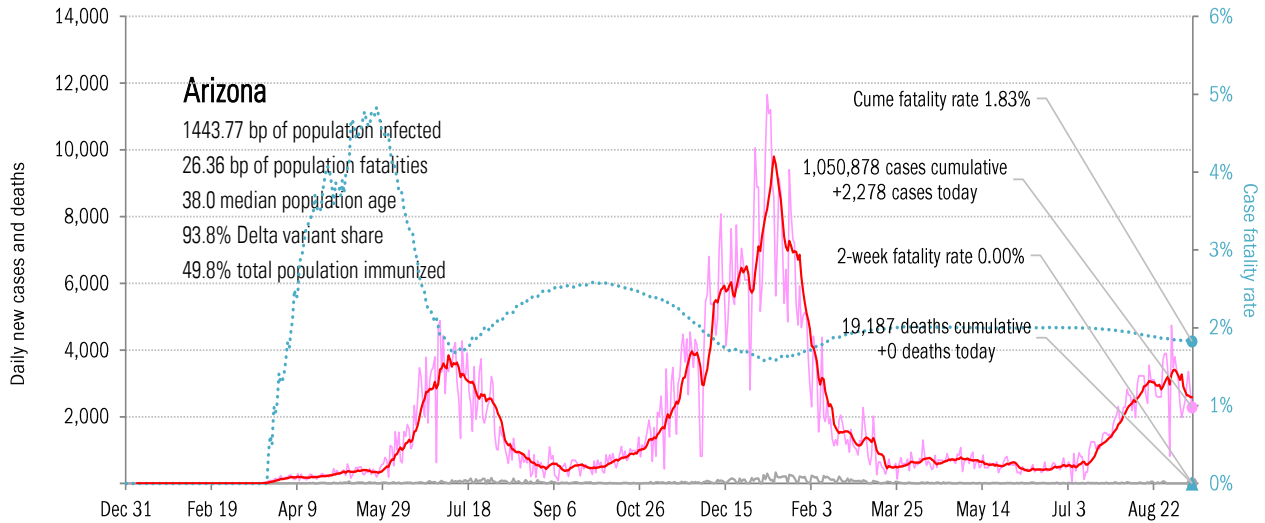
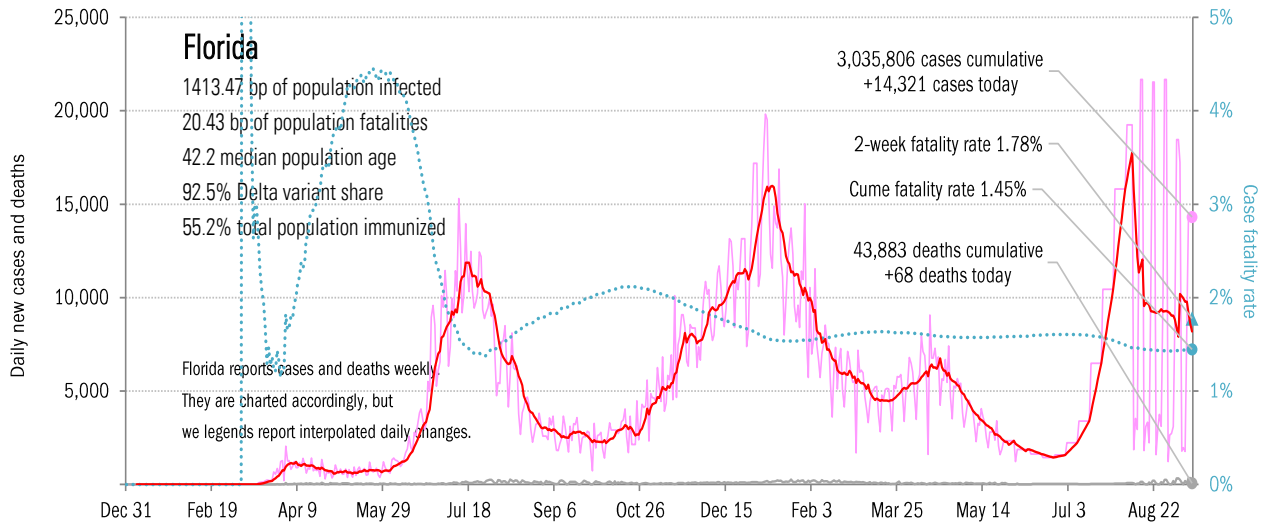
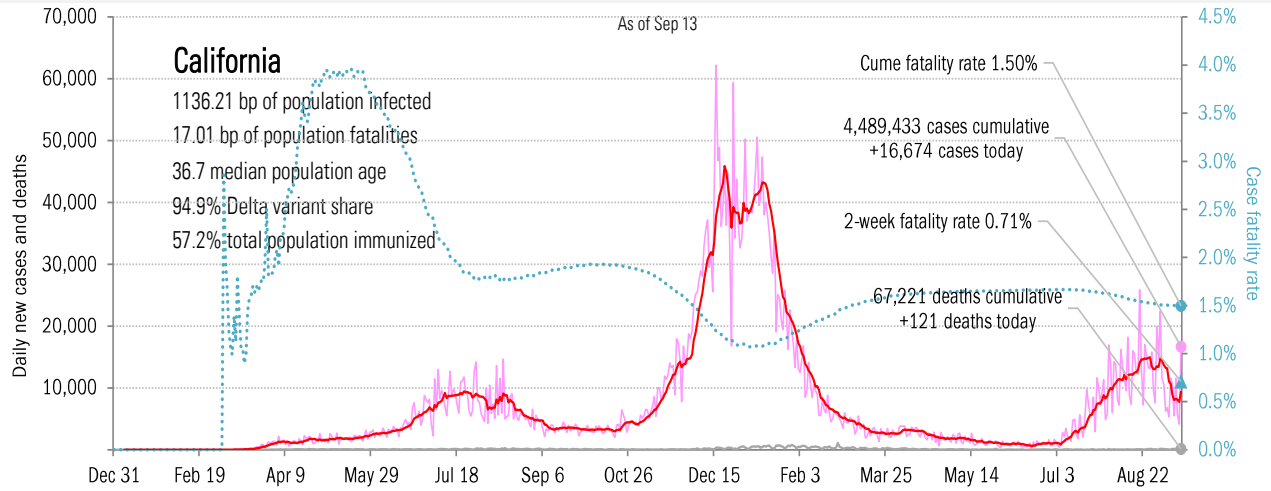
Cases: 7-day average and daily Deaths: Daily



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

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

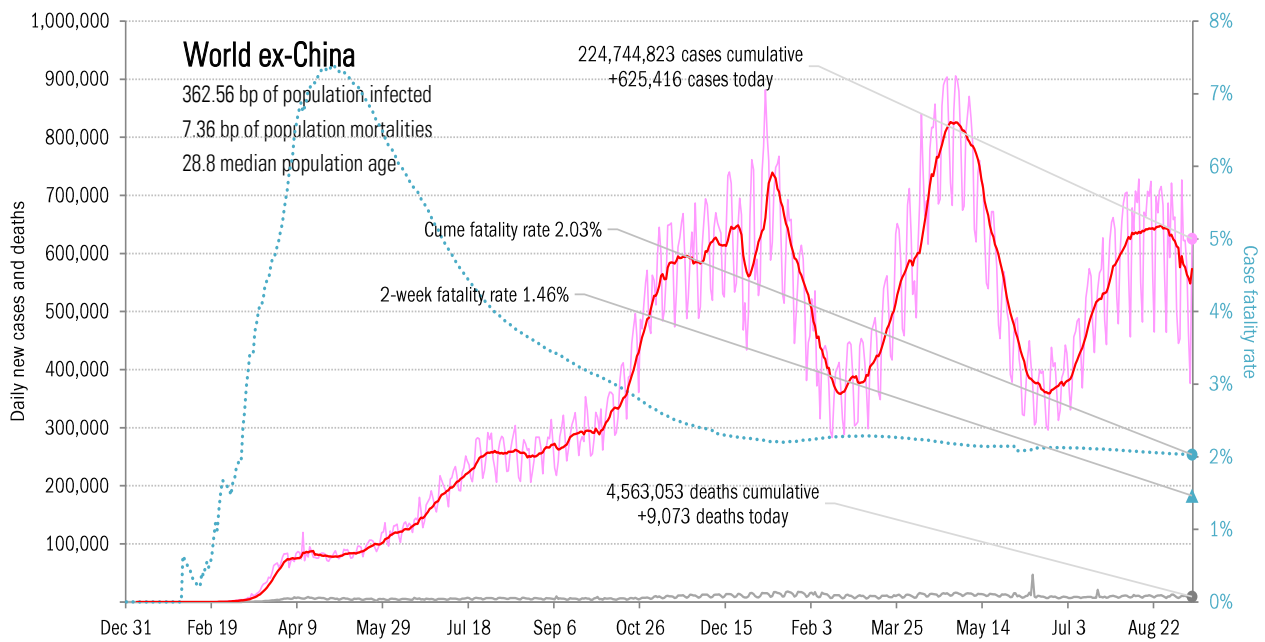
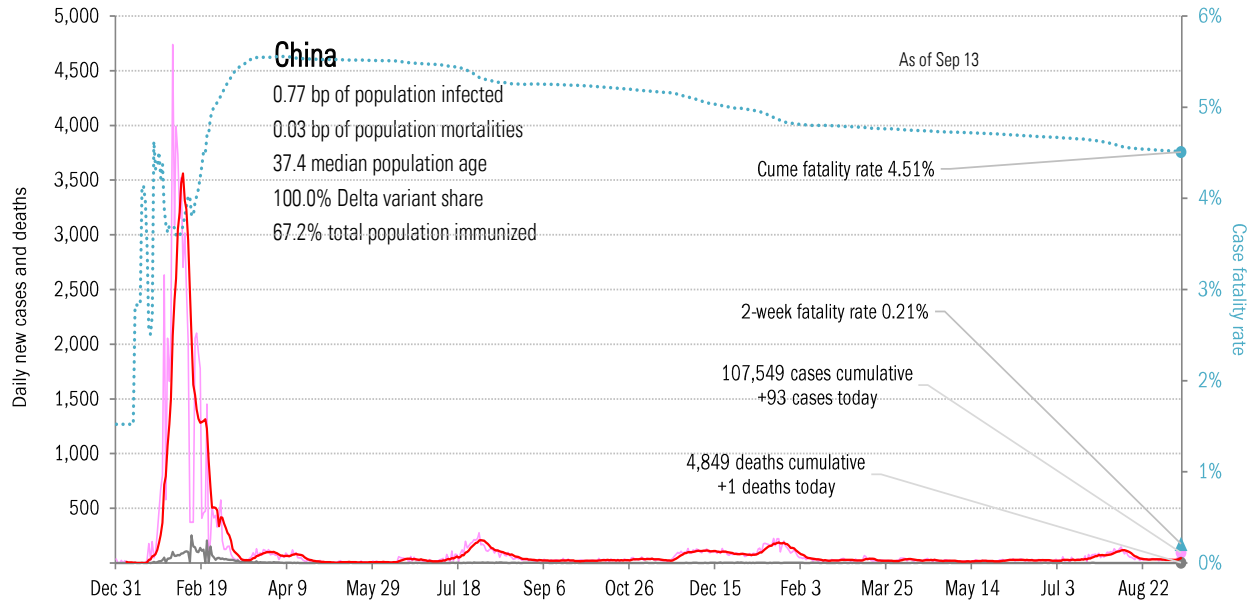
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

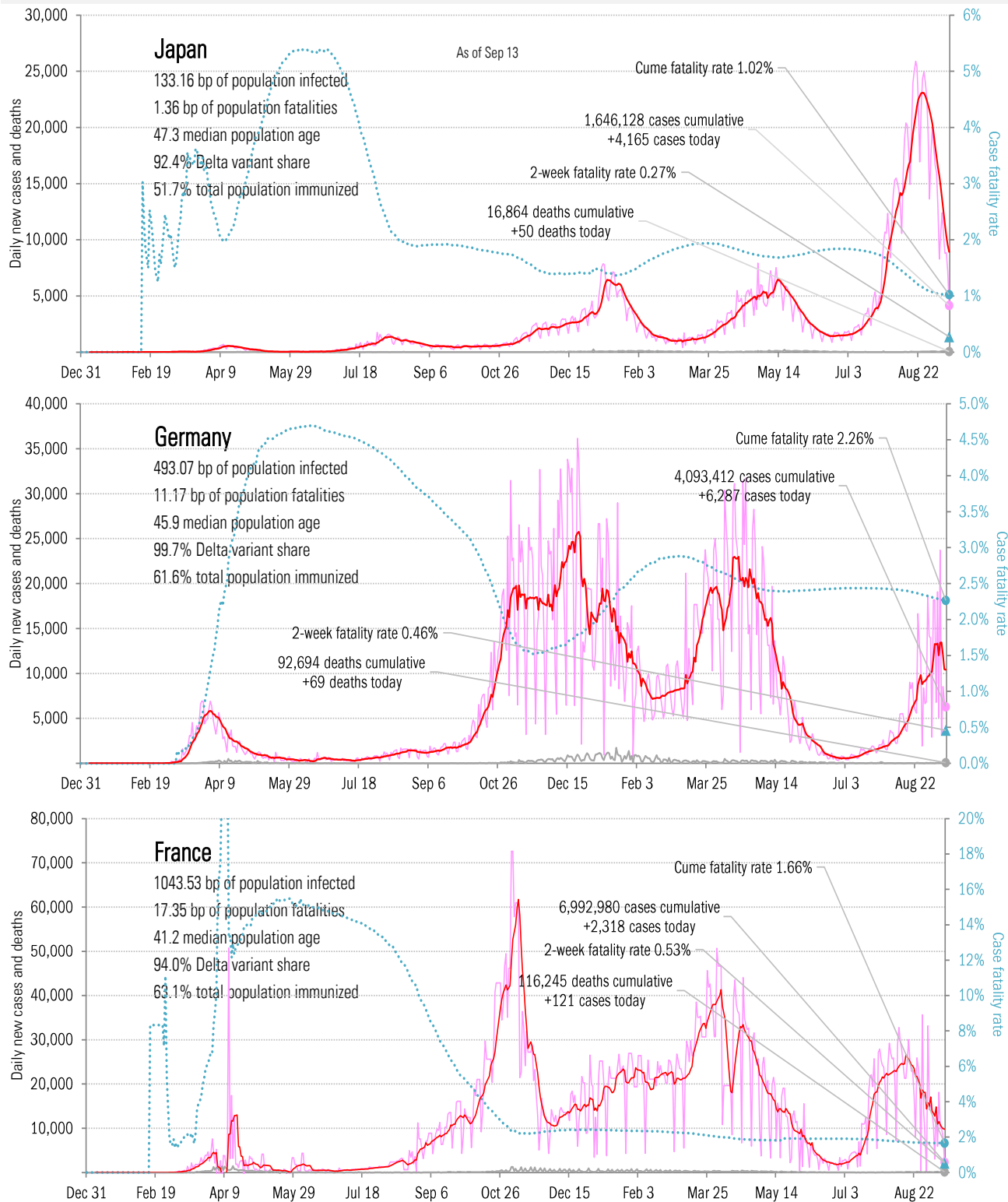
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

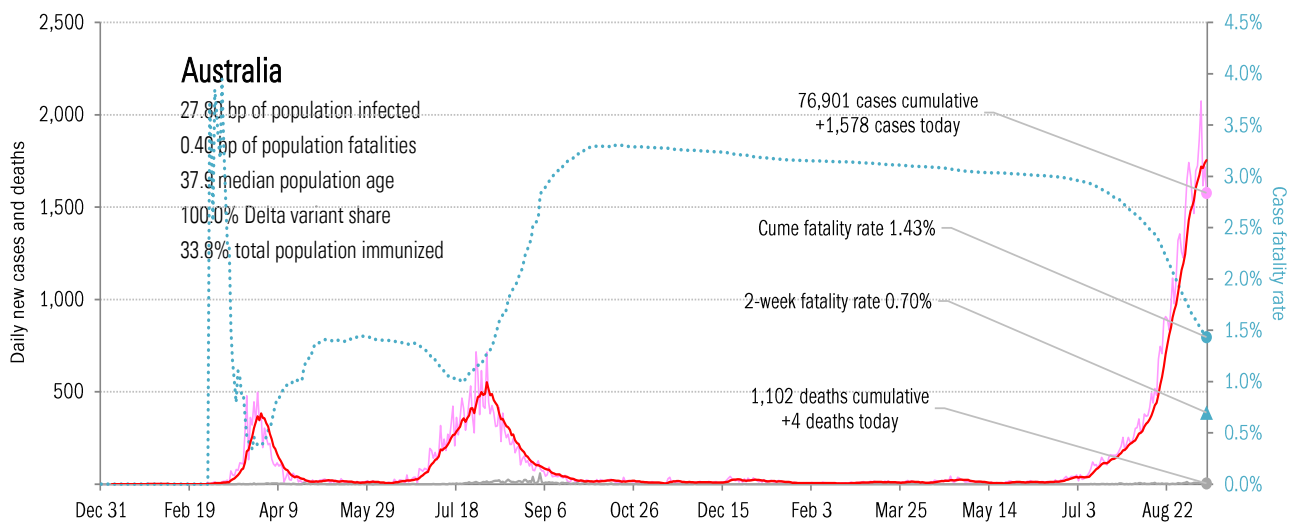
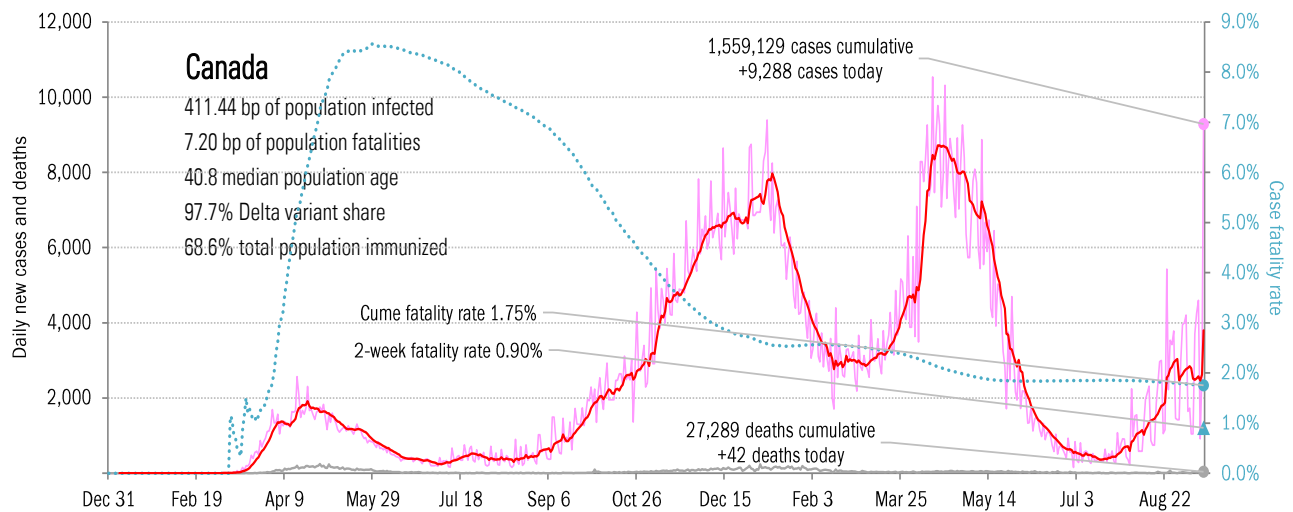
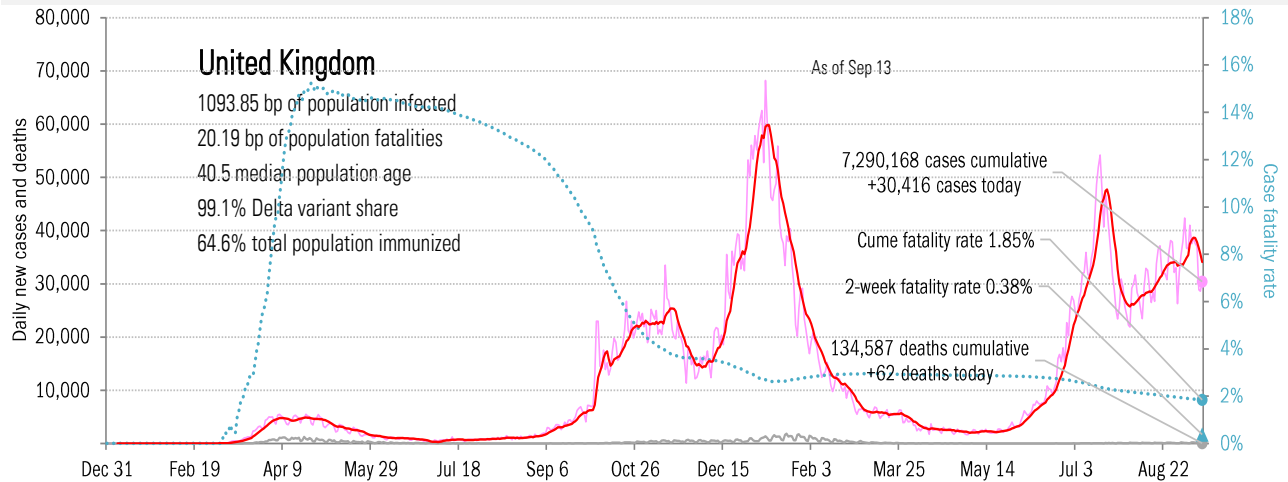
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

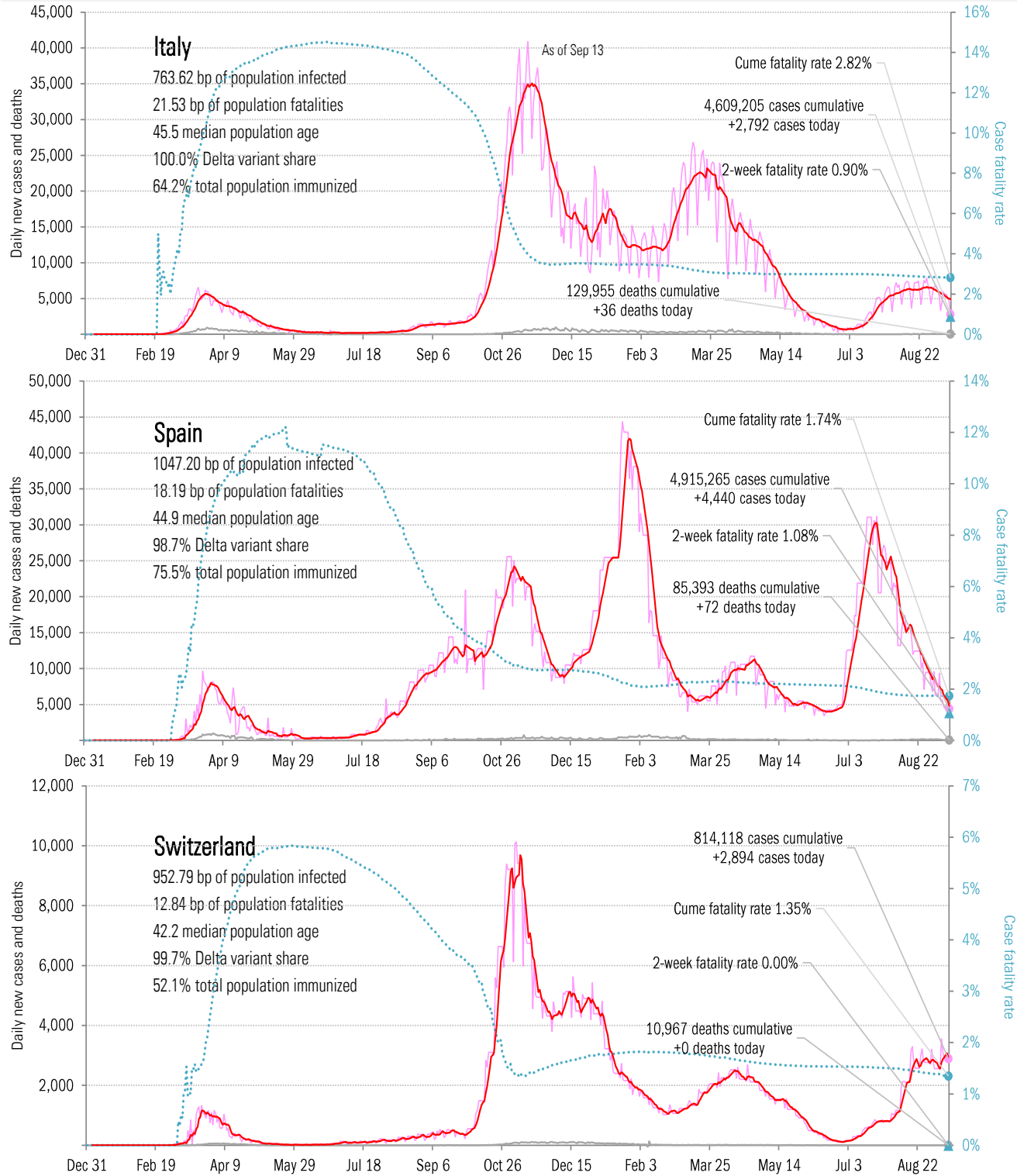


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

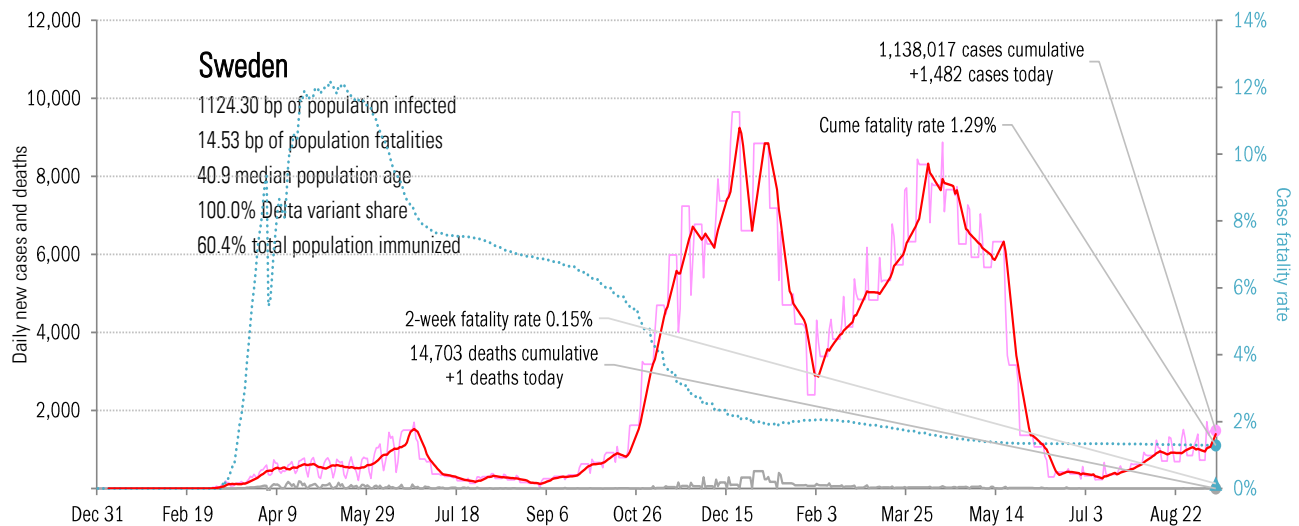
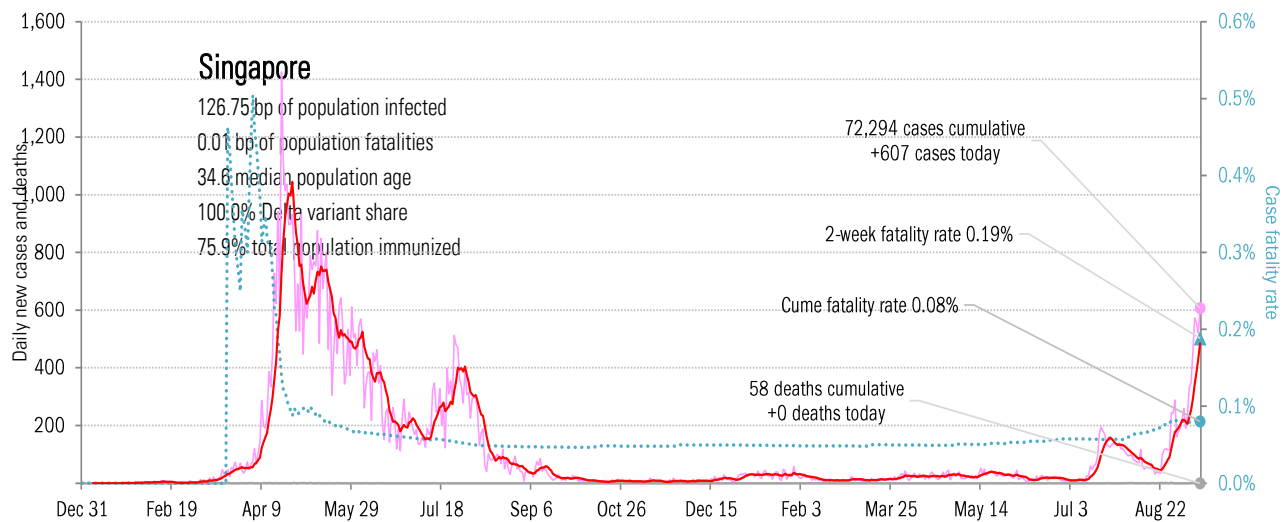
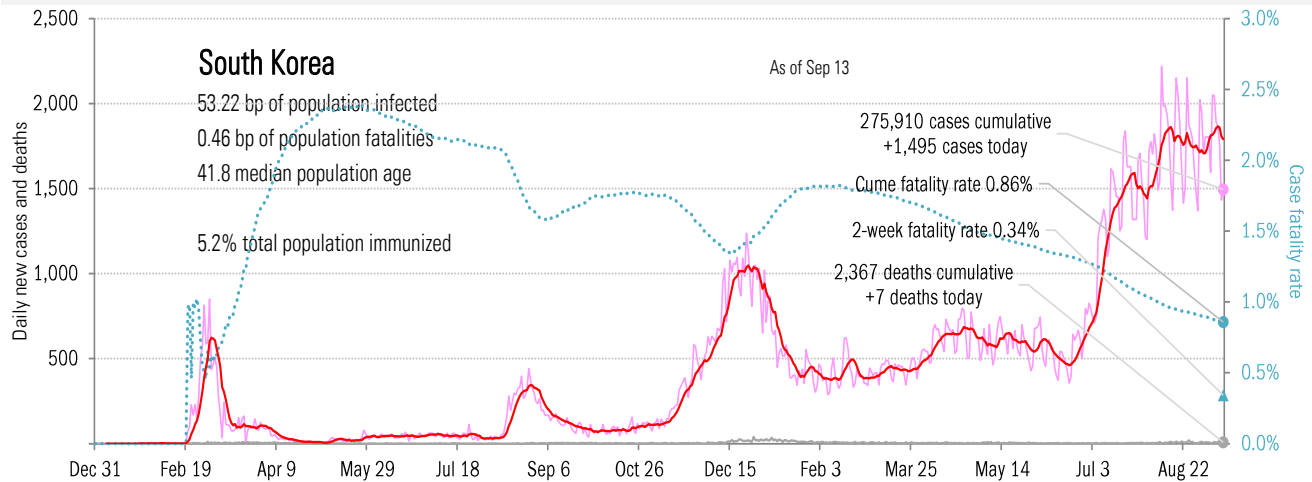
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

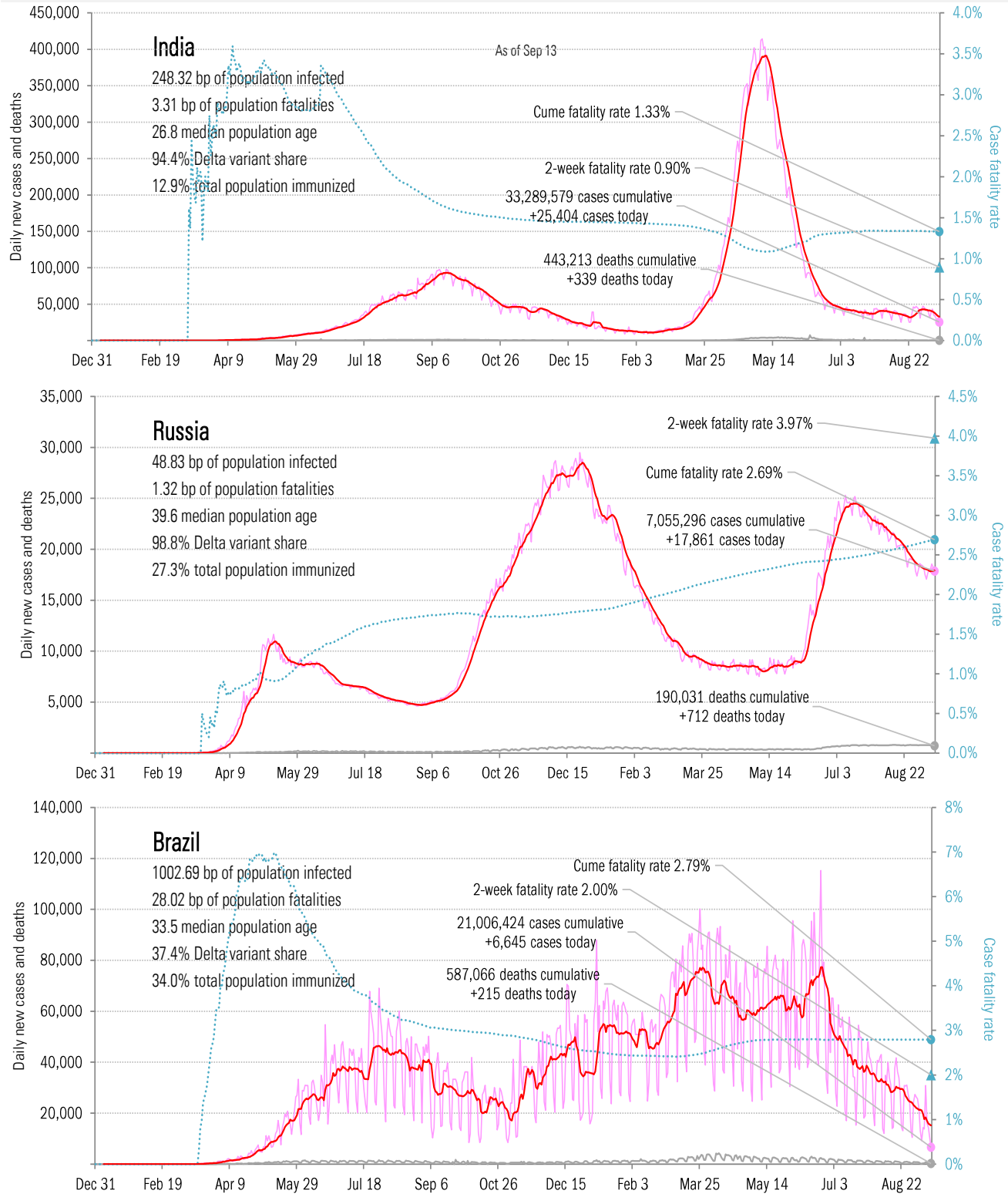
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

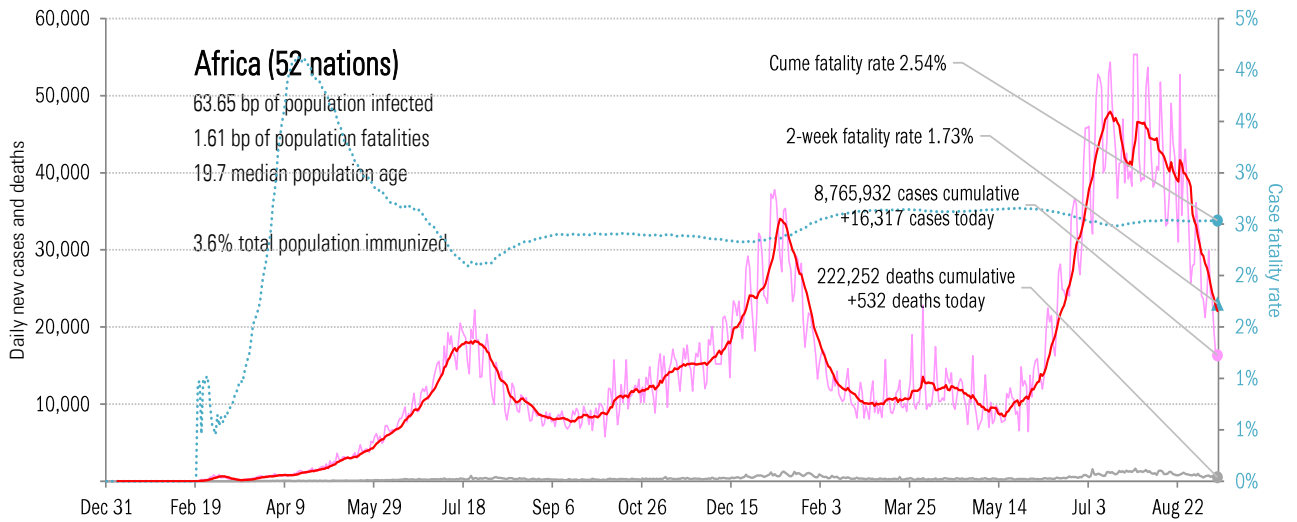
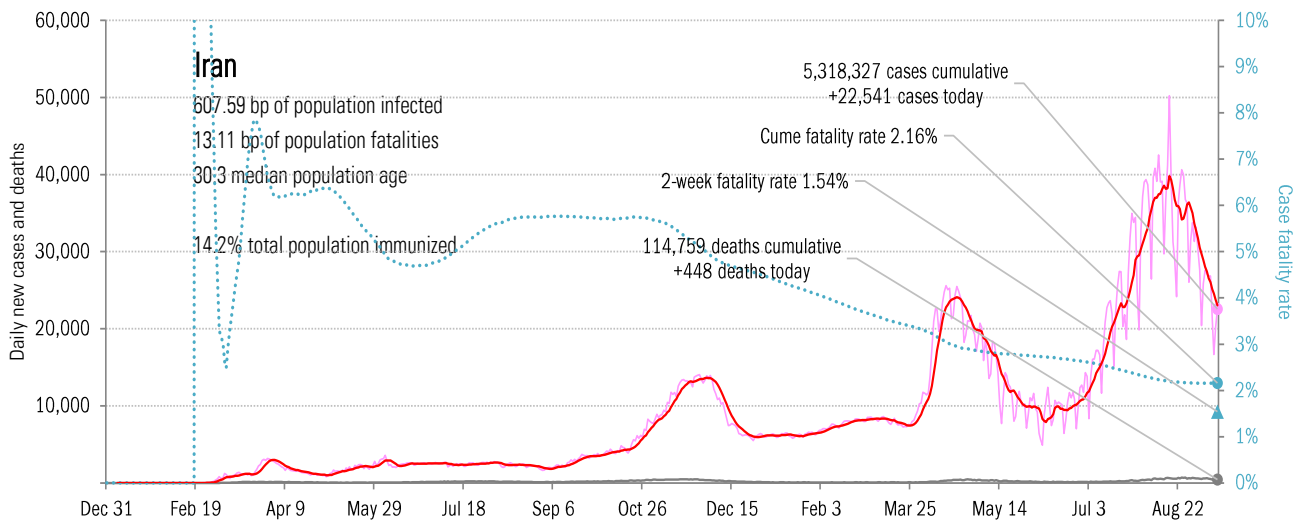
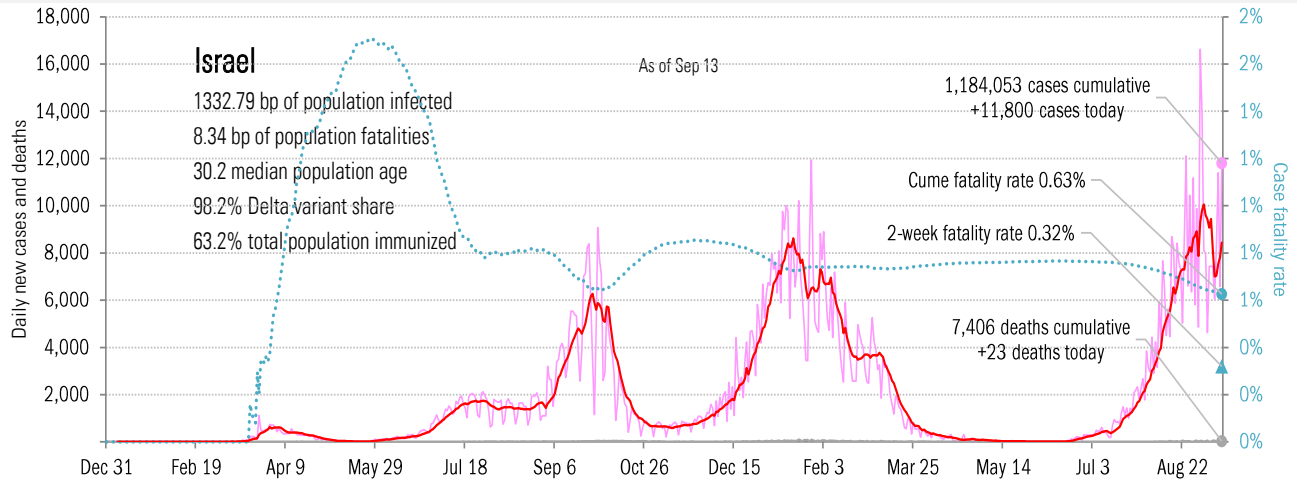
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

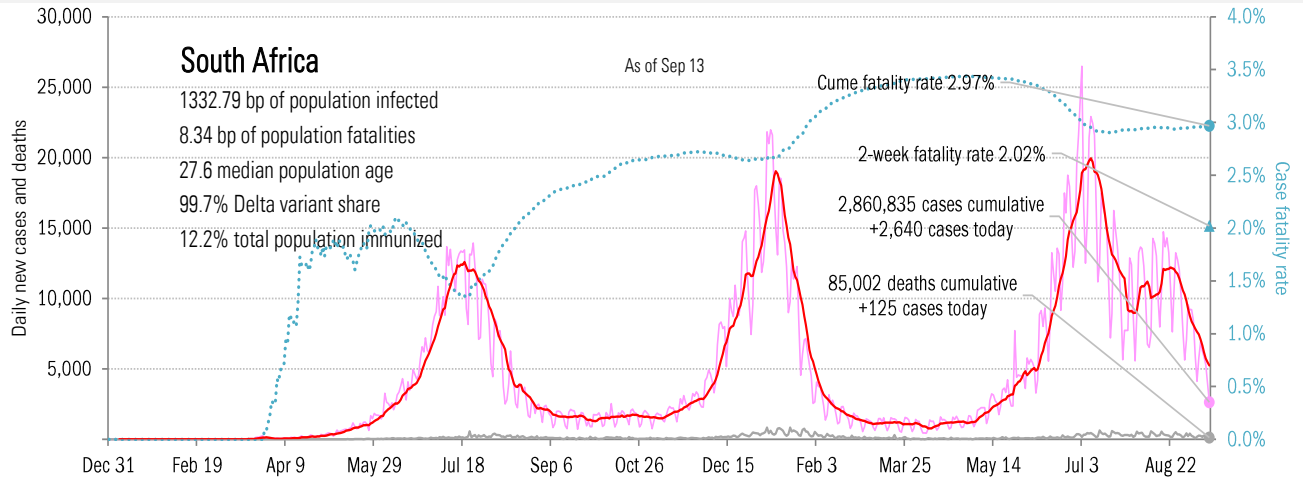
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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