

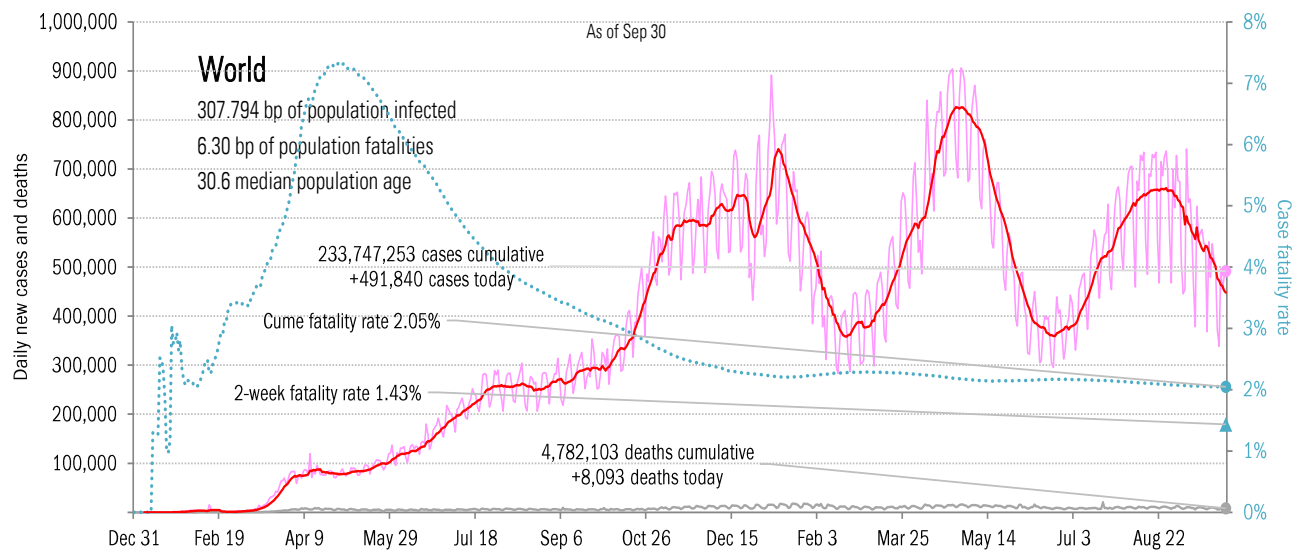
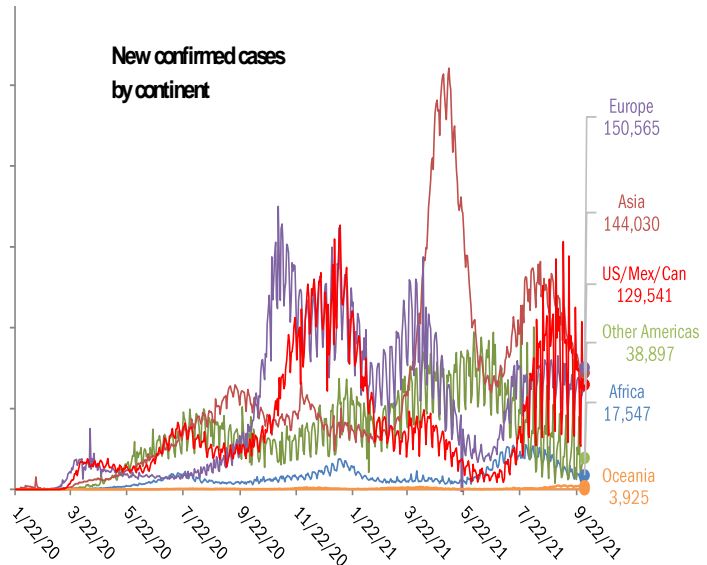
## Data Insights: Covid-2019 Monitor

Friday, October 1, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+117,395	United States	+2,052
United Kingdom	+35,833	Russia	+849
Turkey	+29,104	Brazil	+627
Brazil	+27,527	Mexico	+534
India	+26,727	India	+277
Russia	+23,330	Iran	+268
Philippines	+14,234	Turkey	+216
Iran	+14,078	Ukraine	+212
Malaysia	+12,735	South Africa	+209
Ukraine	+12,315	Vietnam	+203
<b>+313,278</b>		<b>+5,447</b>	
World	+491,840	World	+8,093
Top ten	64%	Top ten	67%



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

### For more information contact us:

Donald Luskin: 312 273 6766 [don@trendmacro.com](mailto:don@trendmacro.com)  
 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

Cases: **7-day average** and **daily** Deaths: **Daily**

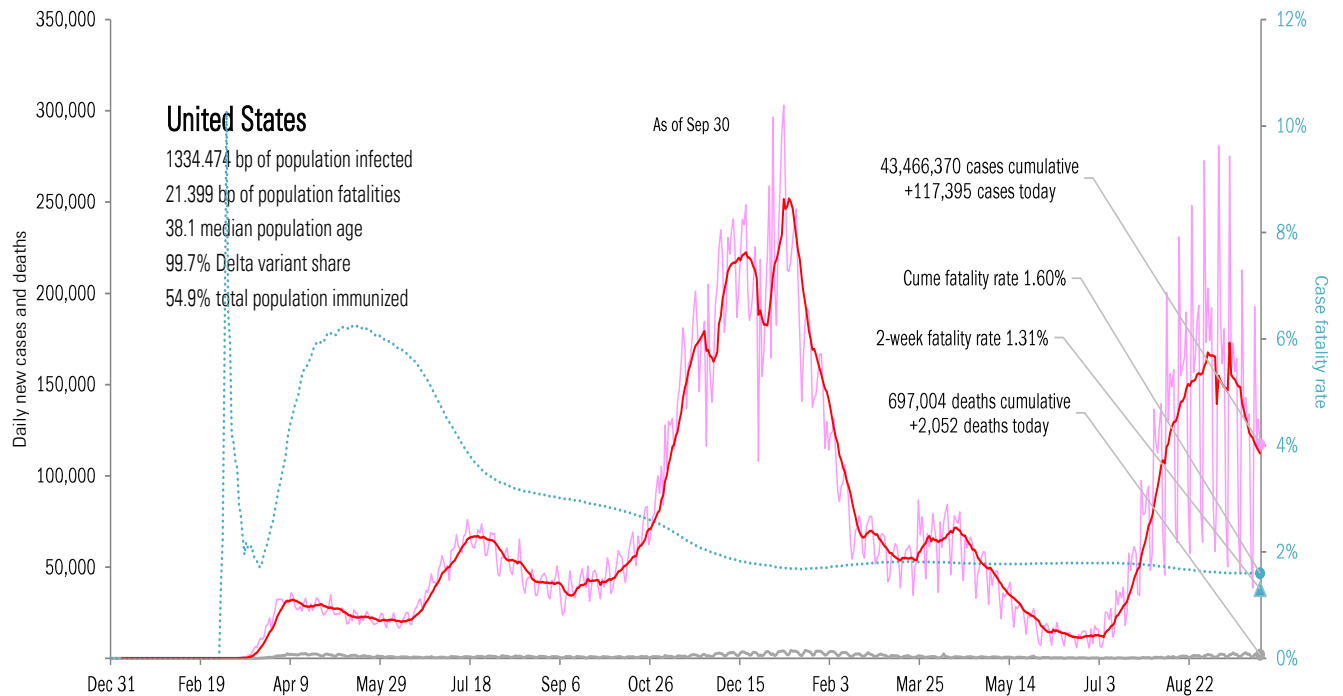
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
TX	+9,628		TX	+352		WA	+35		CA	4,720,326		CA	69,121		TX	358,256		MA	89%	AL	98%
CA	+8,776		FL	+272		PA	+31		TX	4,068,264		TX	65,203		FL	307,971		RI	87%	TX	94%
FL	+7,335		GA	+151		ND	+17		FL	3,589,368		NY	55,358		CA	297,253		PA	87%	GA	93%
CH	+6,530		CA	+131		NM	+16		NY	2,426,683		FL	54,171		NY	155,750		GA	86%	ID	91%
NY	+4,928		SC	+100		ME	+14		IL	1,627,508		PA	29,400		GA	151,874		MD	85%	AK	88%
PA	+4,892		AL	+99		MI	+12		GA	1,578,716		NJ	27,427		CH	111,609		MN	83%	RI	87%
GA	+4,876		NC	+80		IN	+11		PA	1,429,940		IL	27,409		KY	106,541		MI	83%	WV	87%
NC	+4,765		PA	+77		CO	+9		CH	1,413,972		GA	26,084		PA	106,533		SC	82%	NC	86%
TN	+4,118		WA	+72		MA	+9		NC	1,395,254		MI	22,355		IL	99,839		MO	82%	NE	86%
IN	+3,399		VA	+54		SD	+5		TN	1,228,520		CH	21,945		MI	83,374		WV	82%	NM	86%
<b>+59,247</b>			<b>+1,388</b>			<b>+159</b>			<b>23,478,551</b>			<b>398,473</b>			<b>1,779,000</b>						
All states	+117,395			+2,052			-984		All states	43,466,370			697,004			3,161,432		All states	70%		67%
Top ten	50%			68%			-16%		Top ten	54%			57%			56%		Median	78%		81%

Some states not reporting

## Five most improved US states

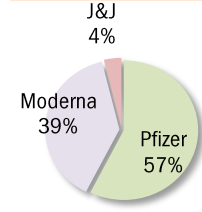
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-8,694	OK	-234	NC	-84	FL	+20 bp
TX	-5,496	MI	-111	MO	-72	ND	+20 bp
KS	-2,368	IA	-80	WI	-54	NM	+20 bp
IA	-1,889	NC	-79	IL	-46	NY	+20 bp
KY	-1,389	TX	-43	NY	-34	AK	+10 bp



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	404,004,194		+0.956 million		US	54.9%	63.7%	
	One dose	% Pop	Immune	% pop	New immune today	UK	65.8%	71.6%
Total population	219,556,378	66%	189,244,701	57%	+0.277 million	France	65.7%	74.4%
Age 12 to 17	13,665,032	57%	11,071,847	47%	+0.030 million	Spain	78.3%	80.6%
Age 18 to 64	151,851,997	75%	130,147,285	64%	+0.211 million	Germany	64.0%	67.5%
Age 65 and over	52,966,257	97%	47,149,298	86%	+0.036 million	Italy	67.9%	74.9%
						Australia	43.4%	64.2%
						Israel	64.2%	69.6%
						Canada	70.8%	76.8%
						Japan	60.1%	70.7%
						Africa	4.4%	6.8%
						India	17.0%	46.6%
						Brazil	41.6%	70.2%
						China	72.6%	76.2%



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



Every American >18 immune in **87 days** by Dec 26, 2021  
 68.7% of population >18 immunized  
 14.8% previously tested positive  
**83.5%** vs 60% adult herd immunity

AK
57.3%
50.6%

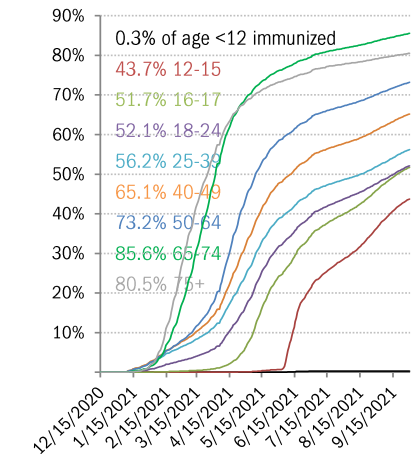
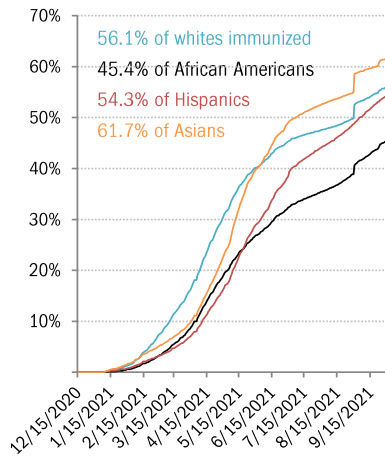
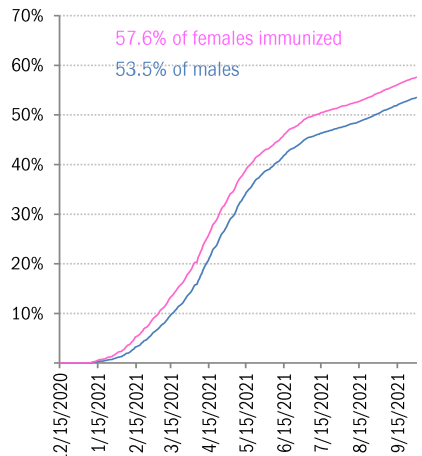
WI
60.9%
56.4%

ME
74.1%
68.5%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
67.2%	47.1%	54.8%	51.0%	63.5%	68.4%	57.0%	71.4%	77.7%	69.9%	
60.8%	41.6%	48.5%	44.2%	58.2%	53.5%	52.3%	63.8%	69.5%	61.5%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
66.6%	60.8%	48.5%	59.2%	58.1%	52.2%	54.2%	72.5%	72.5%	77.4%	
60.8%	50.8%	41.6%	51.7%	54.0%	48.4%	50.2%	57.8%	64.3%	67.9%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
71.7%	59.0%	65.6%	59.4%	54.8%	60.7%	48.2%	68.4%	70.7%	76.2%	75.3%
59.0%	50.6%	59.4%	54.7%	47.9%	52.3%	40.4%	60.6%	64.1%	68.7%	68.3%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	59.3%	72.6%	59.9%	55.7%	52.7%	59.8%	55.2%	70.8%	66.3%	
	51.1%	63.2%	51.1%	45.6%	45.4%	49.8%	47.3%	60.1%	57.6%	
			OK	LA	MS	AL	GA			
			56.6%	51.7%	50.2%	52.7%	54.9%			
			47.6%	45.4%	43.5%	42.6%	45.4%			
			TX					FL		PR
			59.5%					66.9%		79.2%
			51.1%					57.3%		70.3%

HI
76.7%
57.9%

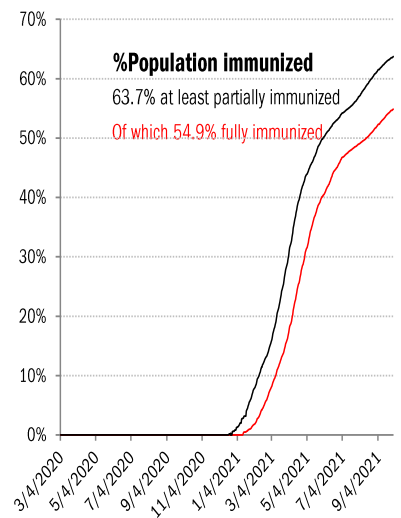
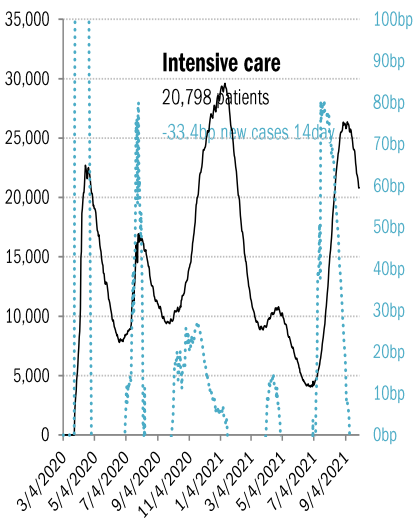
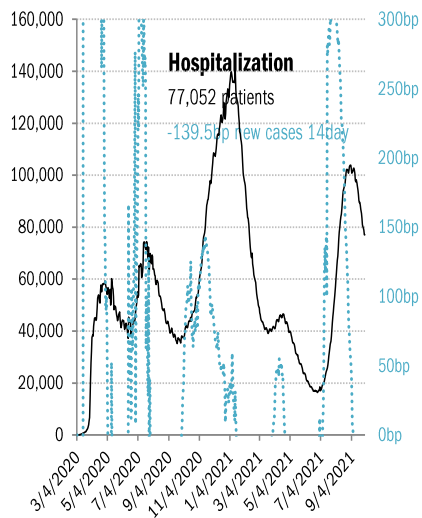
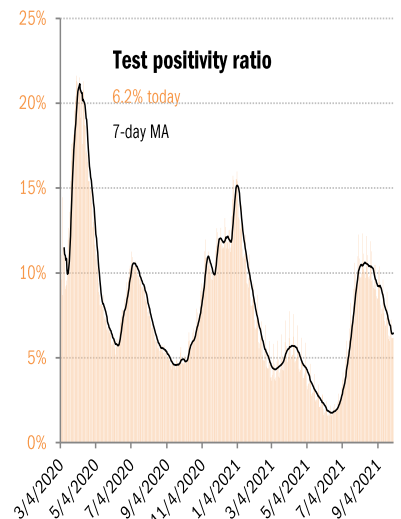
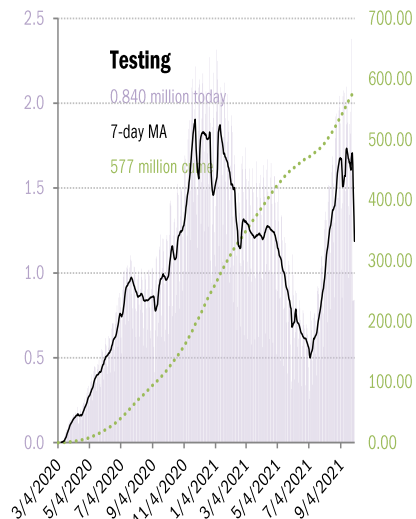
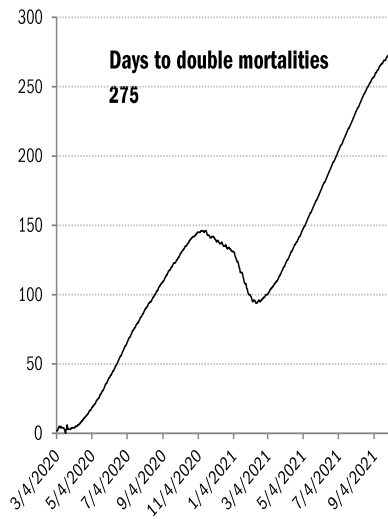
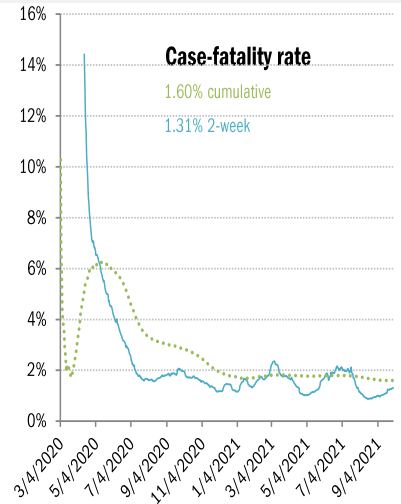
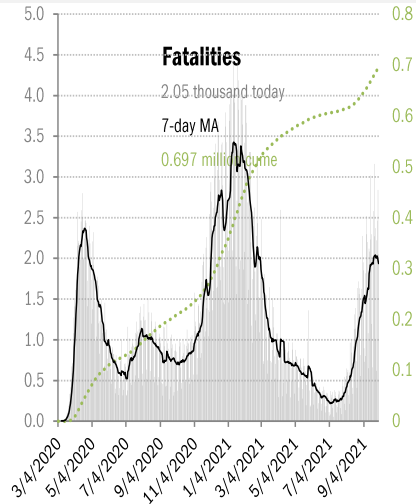
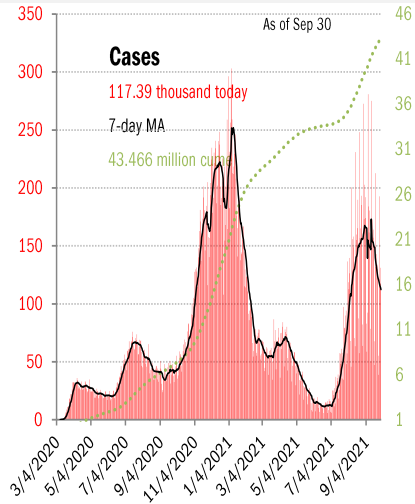
## The demographics of US vaccination



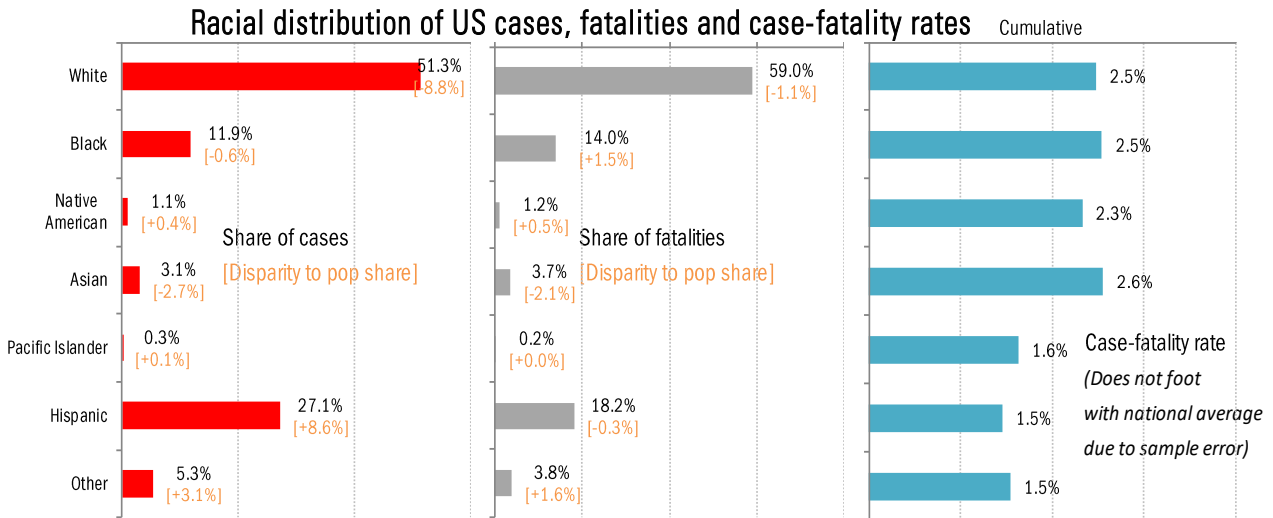
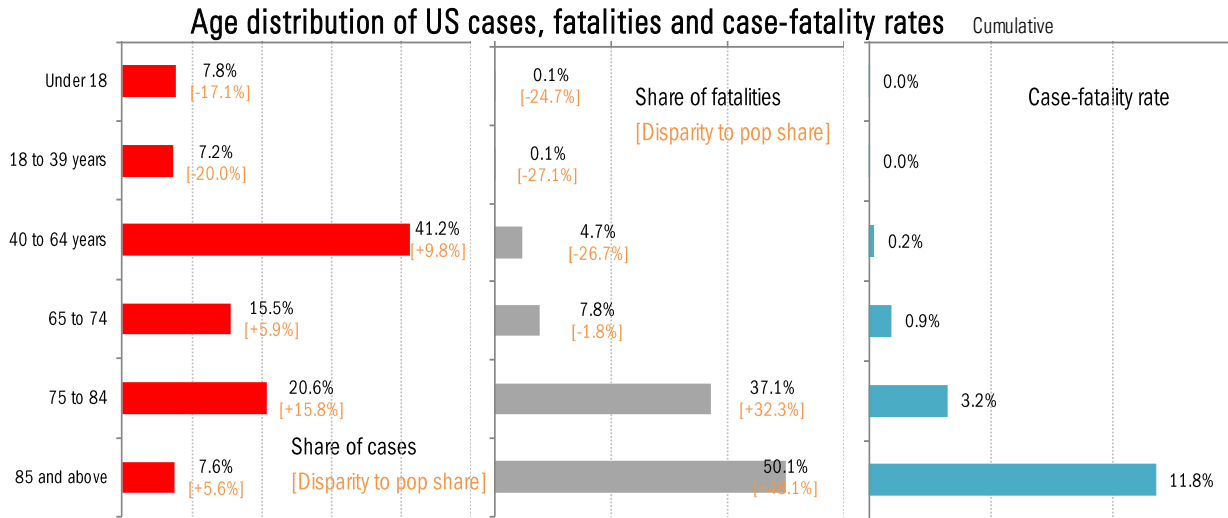
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

# US deep-dive

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

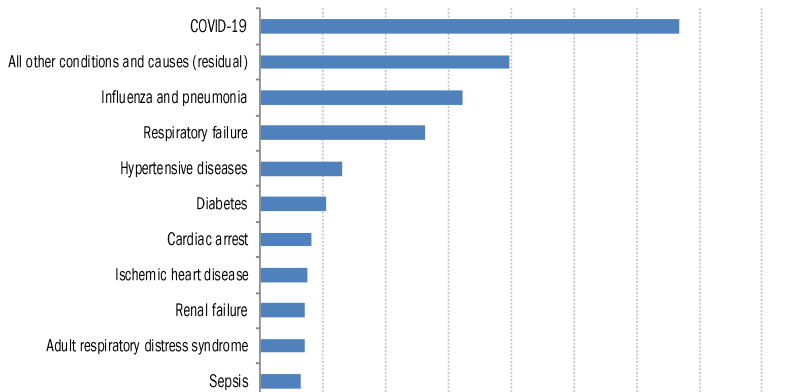


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations



### 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.

## Recommended reading

[Merck and Ridgeback's Investigational Oral Antiviral Molnupiravir Reduced the Risk of Hospitalization or Death by Approximately 50 Percent Compared to Placebo for Patients with Mild or Moderate COVID-19 in Positive Interim Analysis of Phase 3 Study](#)

*Merck*

October 1, 2021

[Pill Intended to Be Covid-19's Tamiflu Succeeds in Key Study](#)

Jared S. Hopkins and Betsy McKay

*Wall Street Journal*

September 30, 2021

[Covid Will Soon Be Endemic, Thank Goodness](#)

Monica Gandhi

*Wall Street Journal*

September 30, 2021

[No Significant Difference in Viral Load Between Vaccinated and Unvaccinated, Asymptomatic and Symptomatic Groups Infected with SARS-CoV-2 Delta Variant](#)

Charlotte B. Acharya

*medRxiv*

September 29, 2021

[Woman who survived 1918 flu, world war succumbs to COVID](#)

Todd Richmond

*AP*

September 30, 2021

[After its mandate, Tyson Foods reaches a 91 percent vaccination rate.](#)

Lauren Hirsch

*New York Times*

September 30, 2021

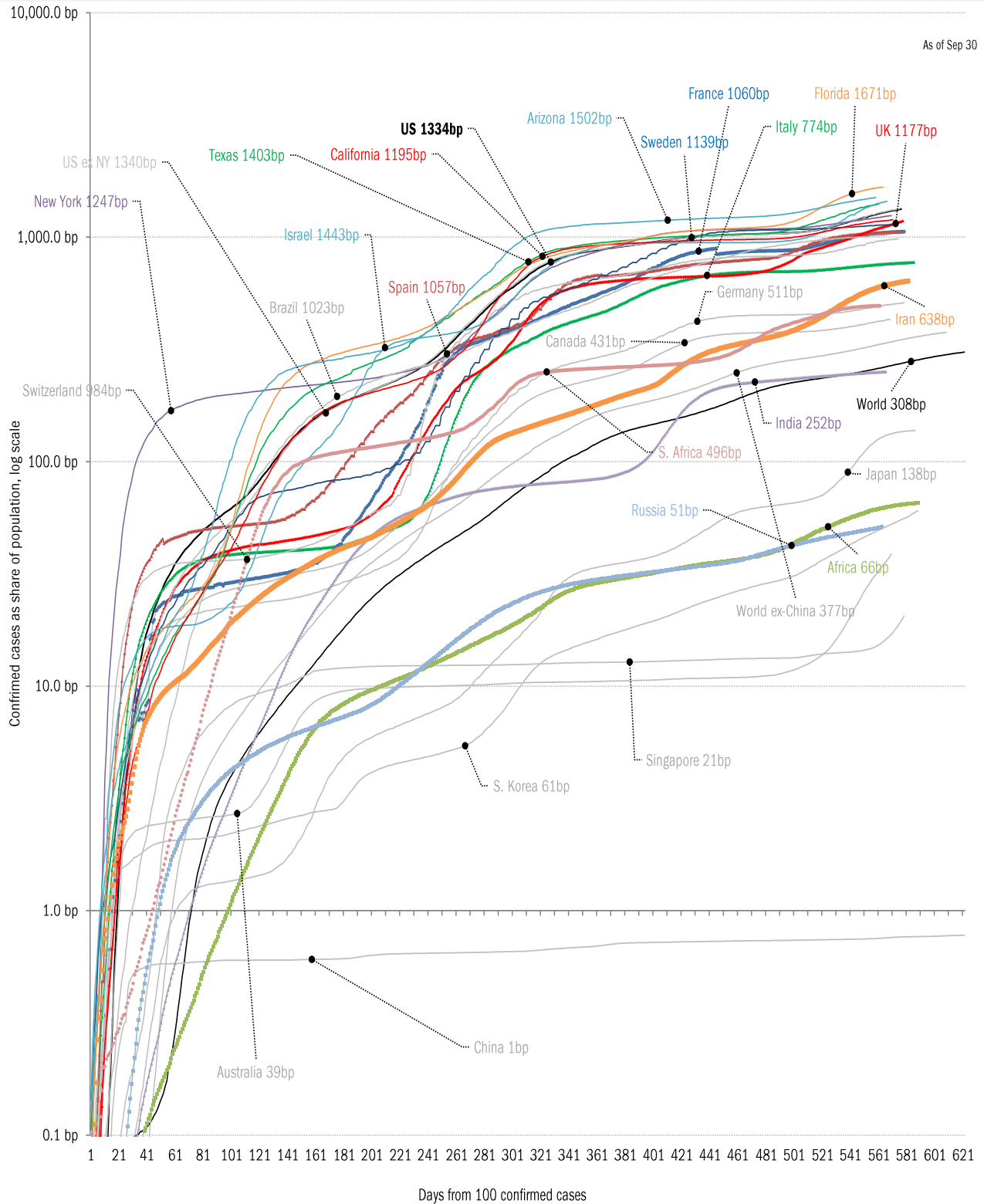
## Meme of the day

**Restaurants in San Francisco  
refusing to serve the unvaccinated:**



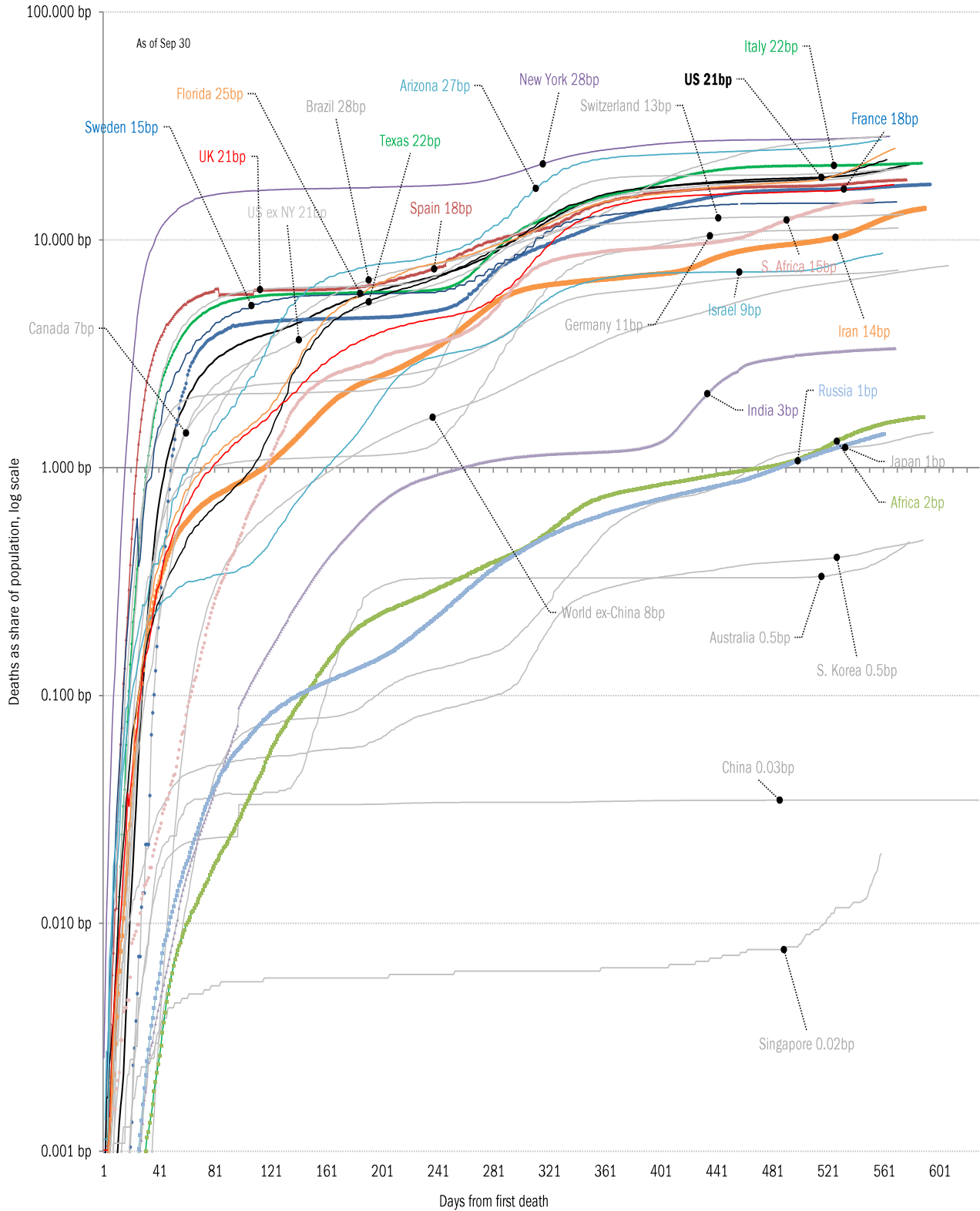
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



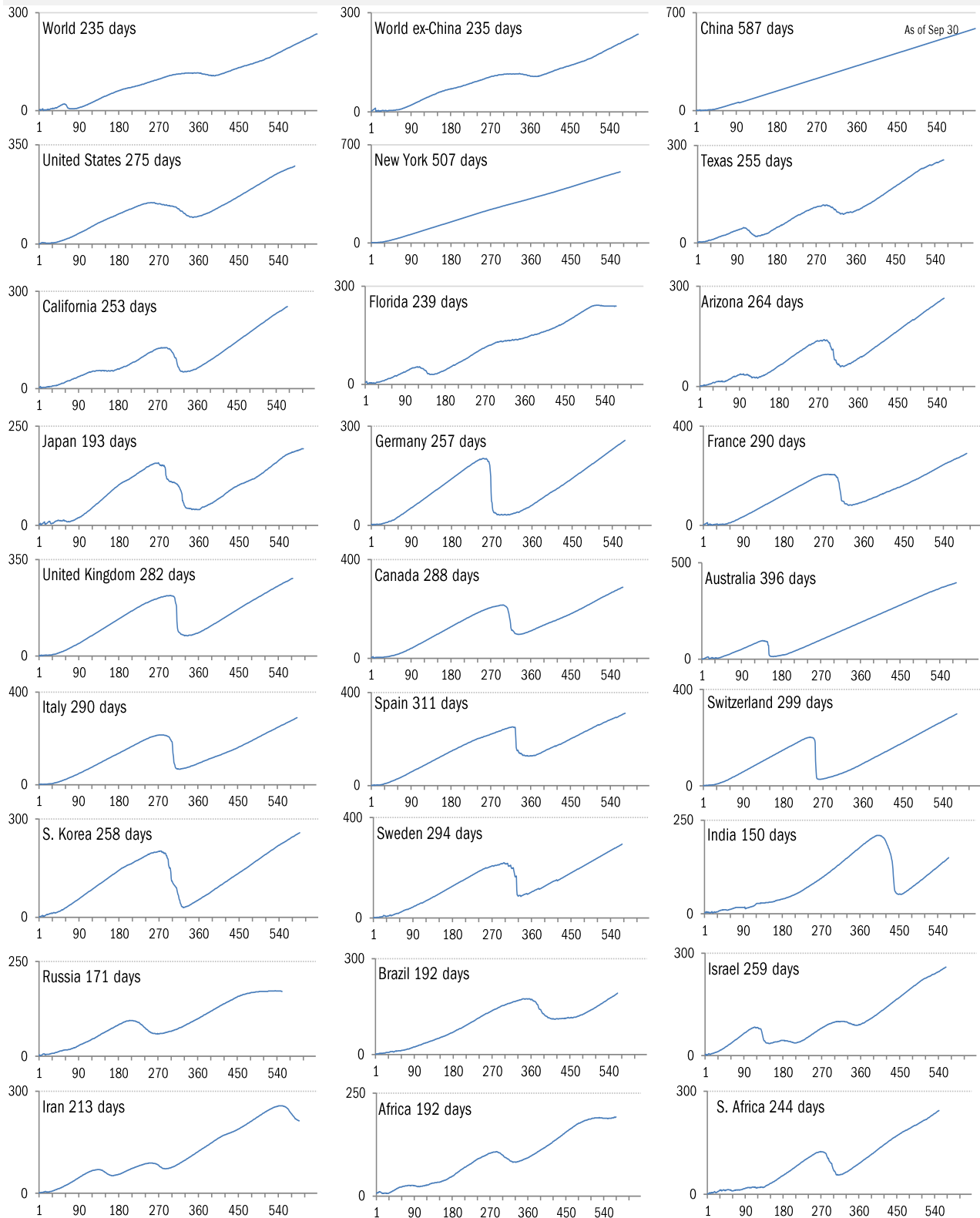
Source: [Johns Hopkins](#), TrendMacro calculations



# "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

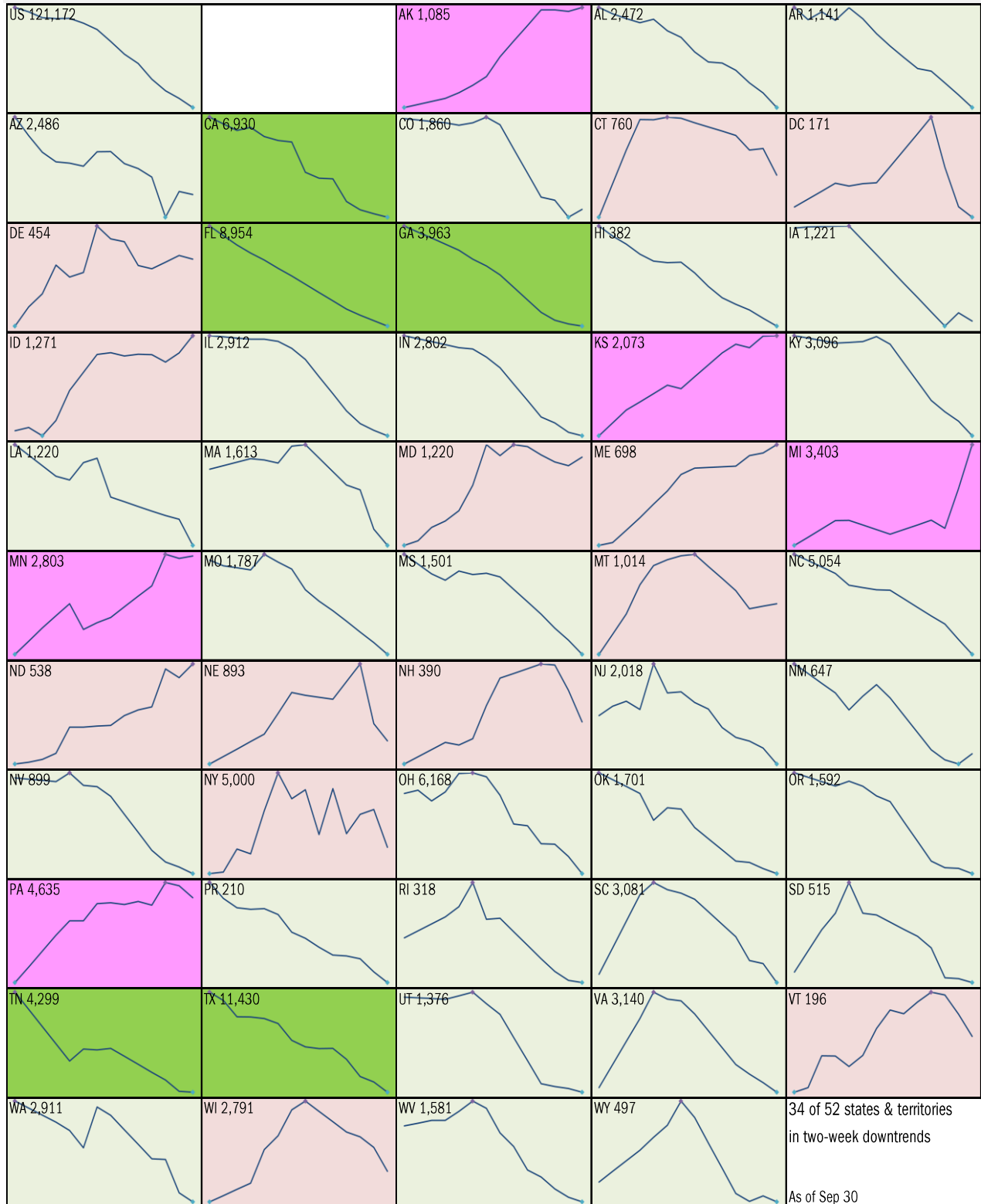


Source: [Johns Hopkins](#), TrendMacro calculations

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

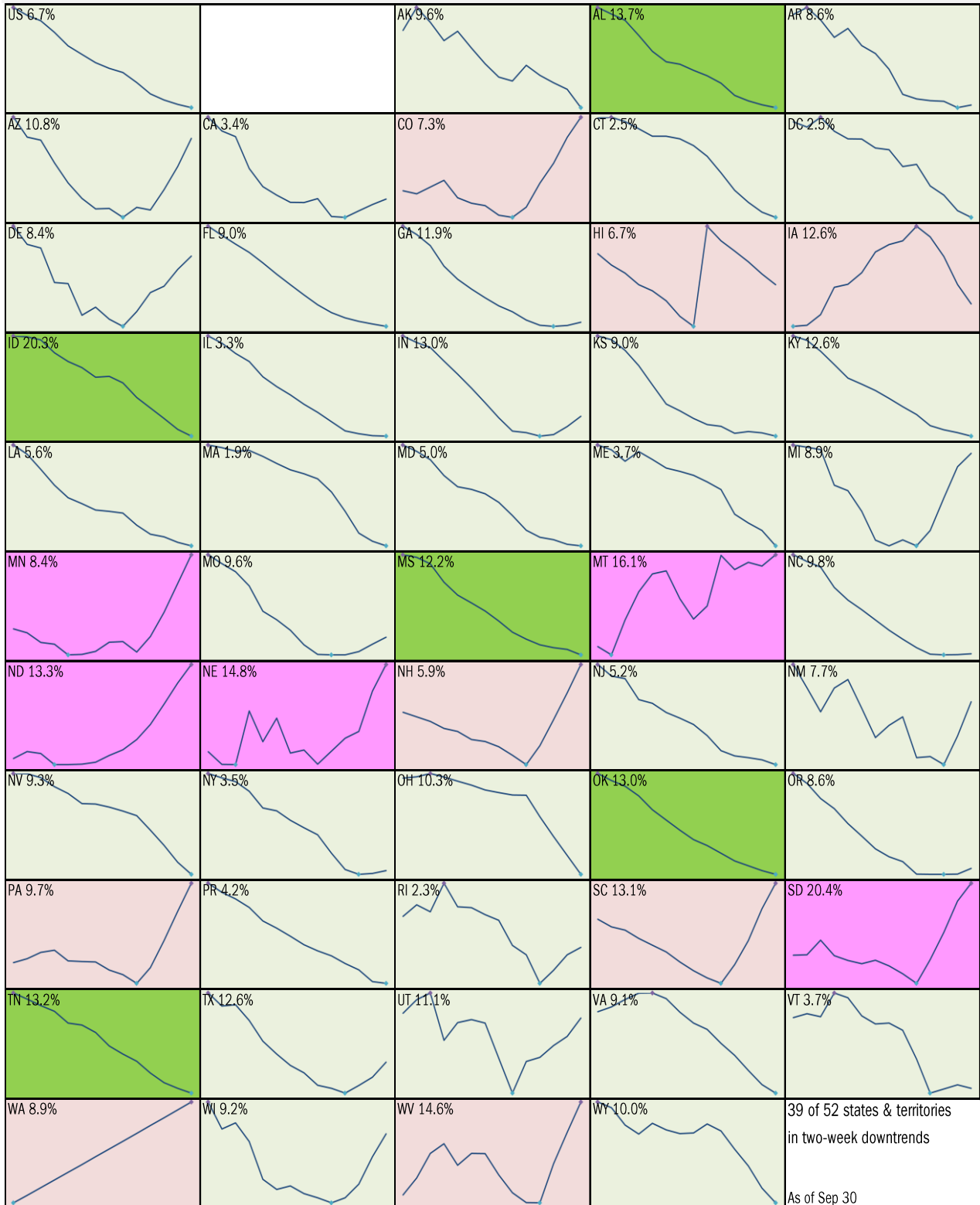


Source: [Johns Hopkins](#), TrendMacro calculations

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

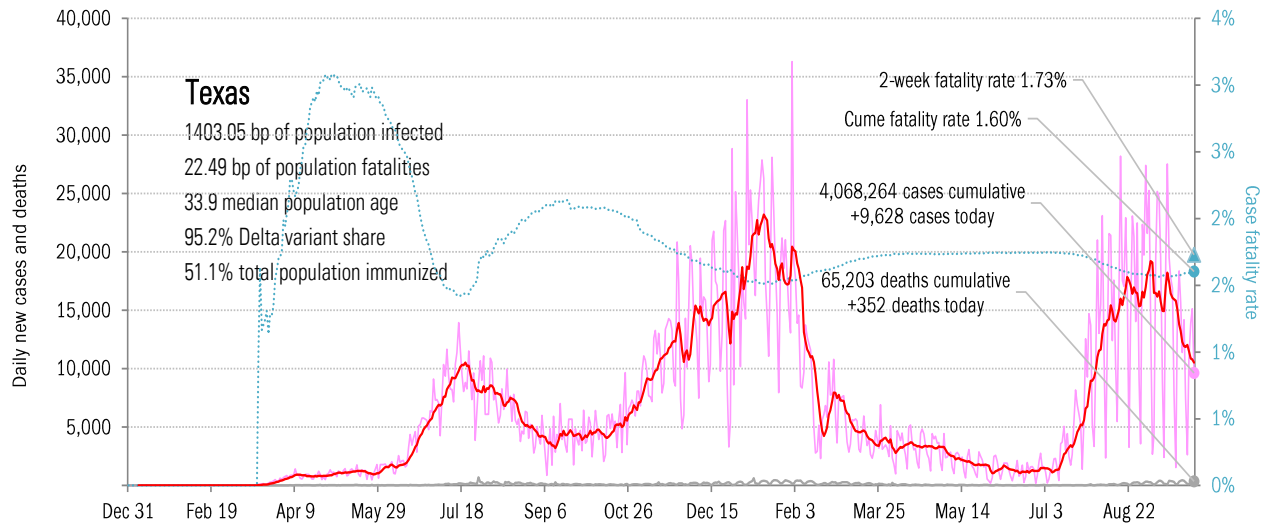
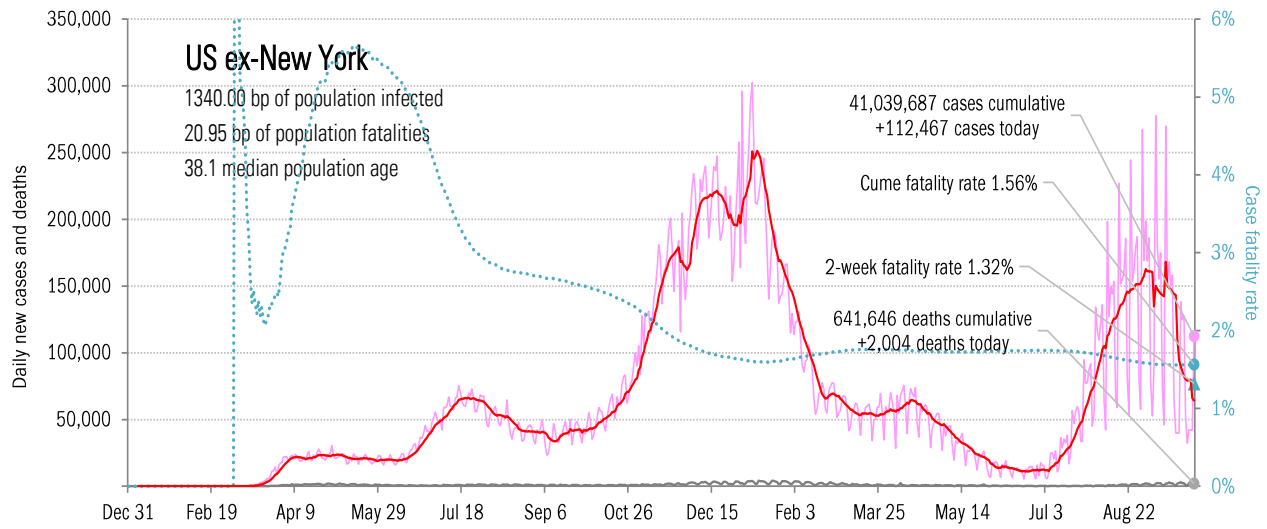
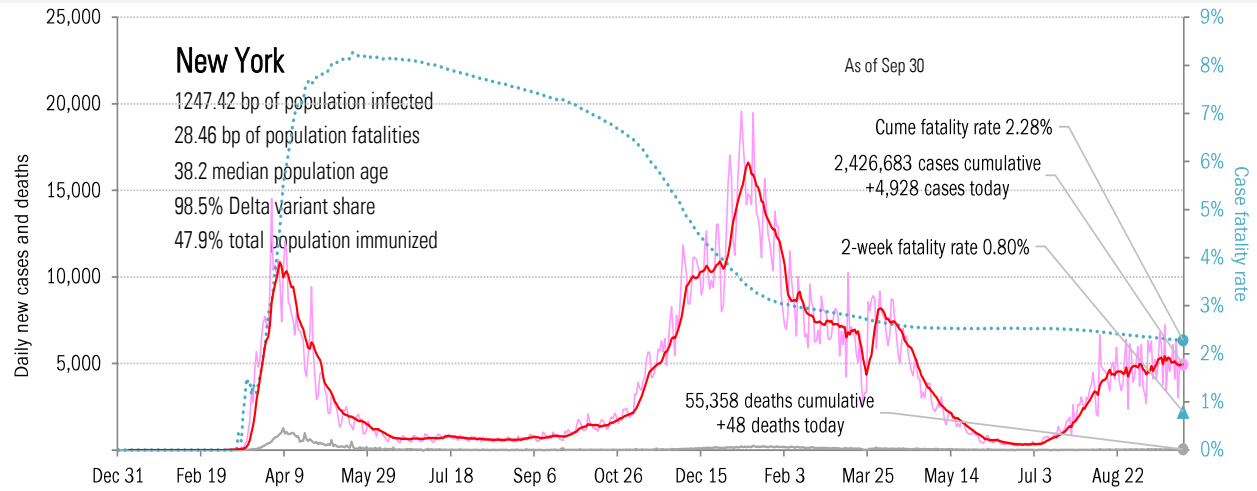
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

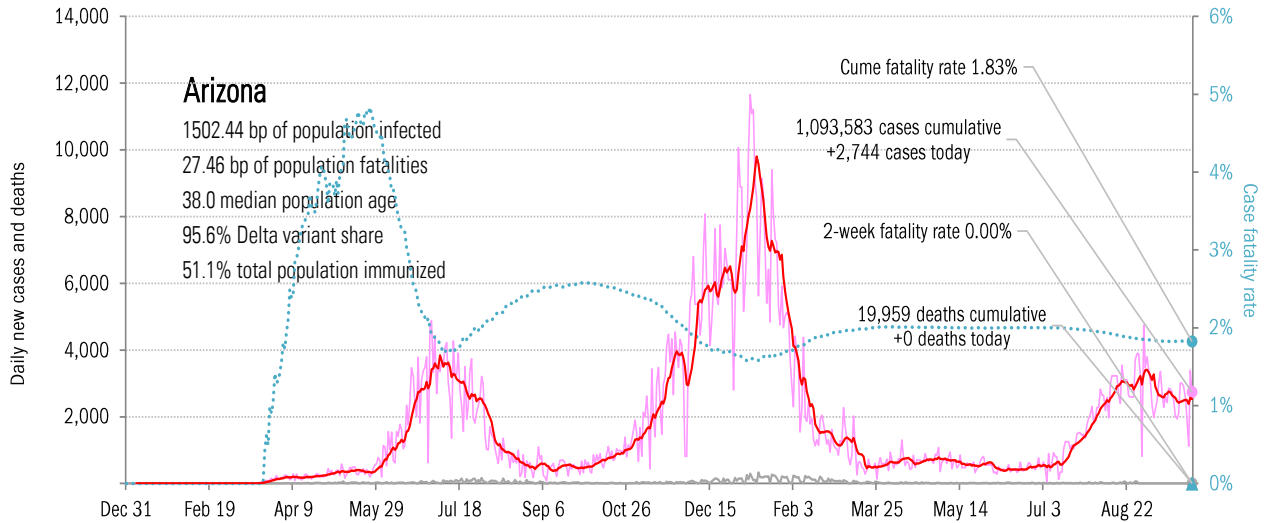
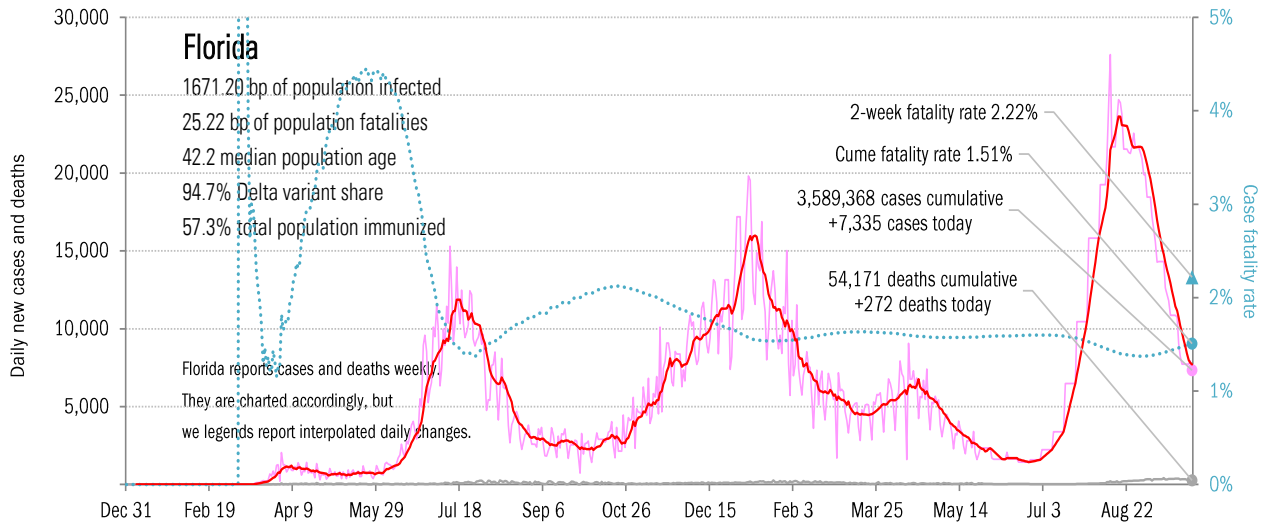
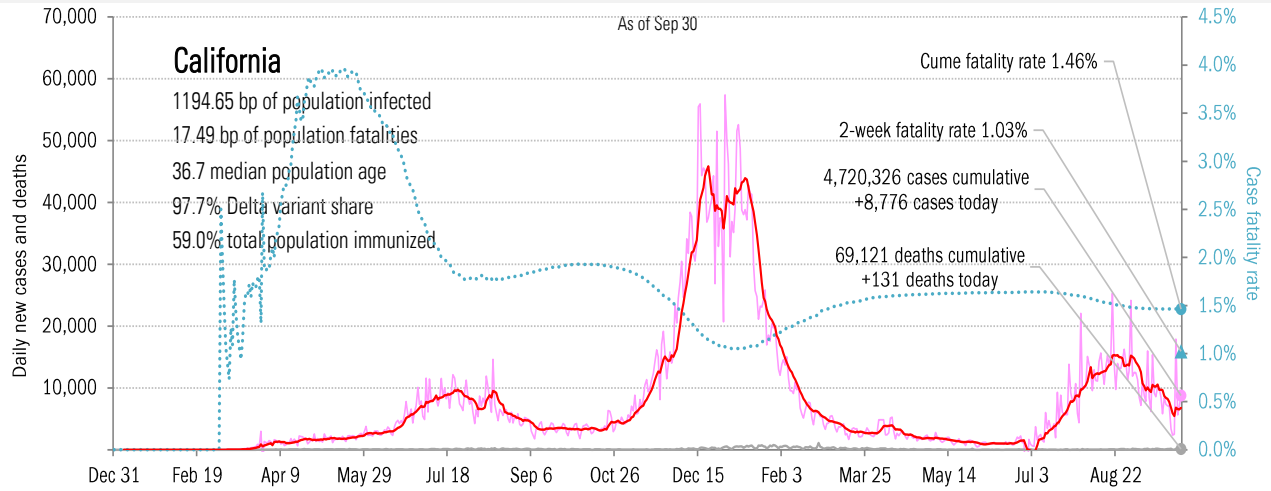
Cases: 7-day average and daily Deaths: Daily



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

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

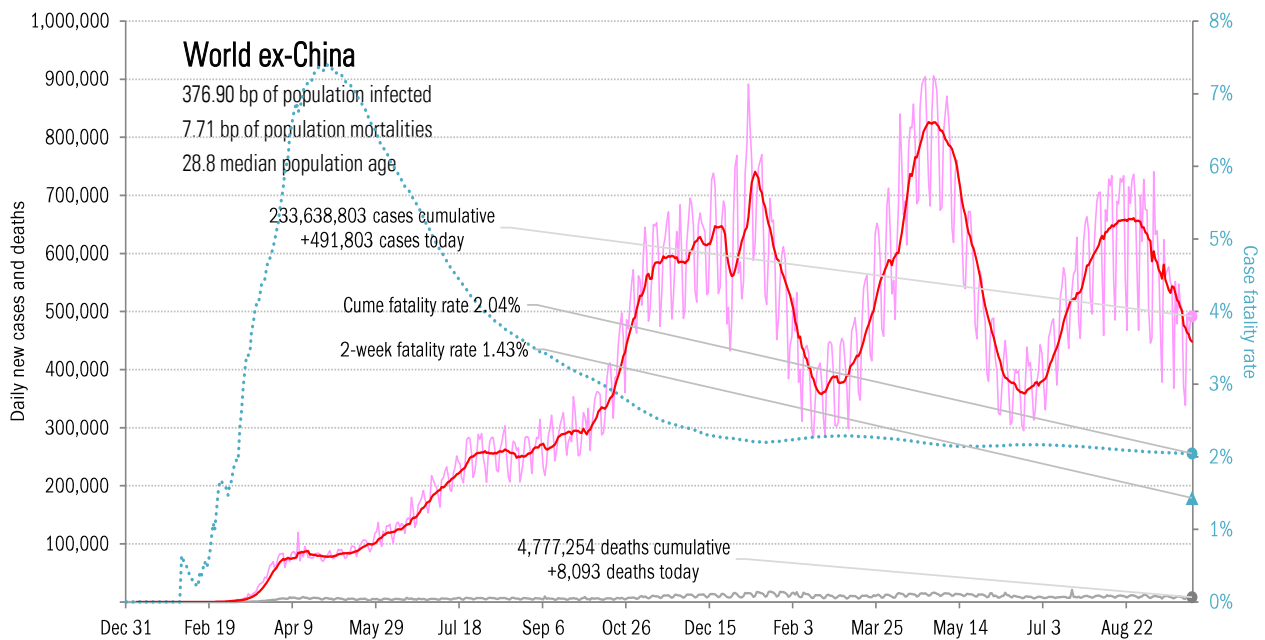
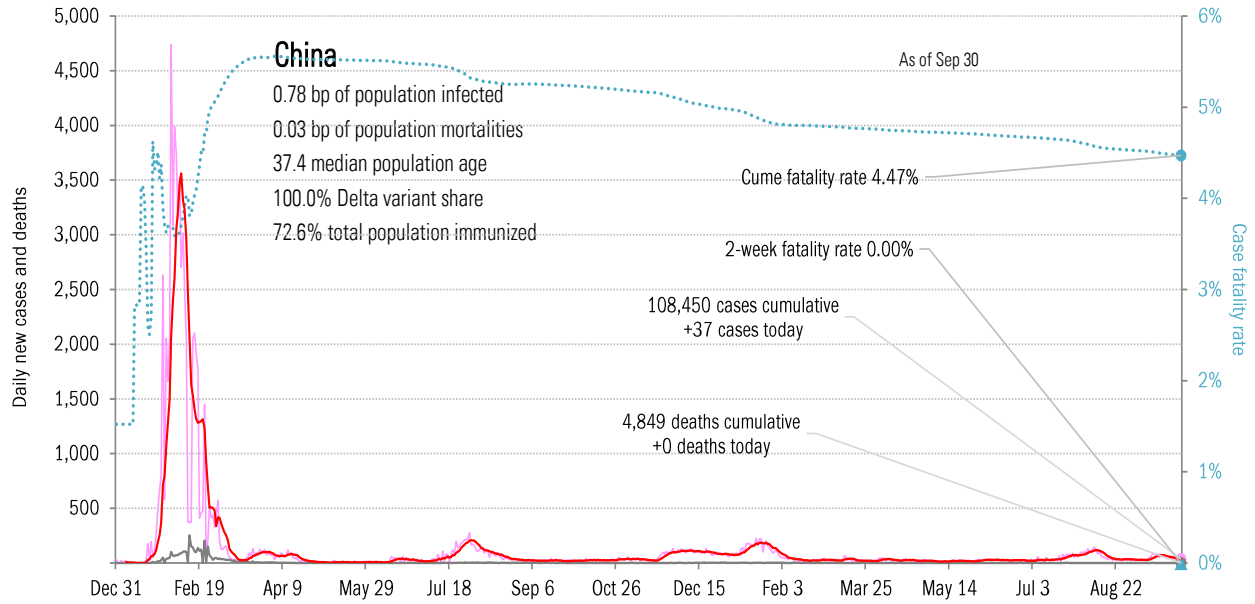
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

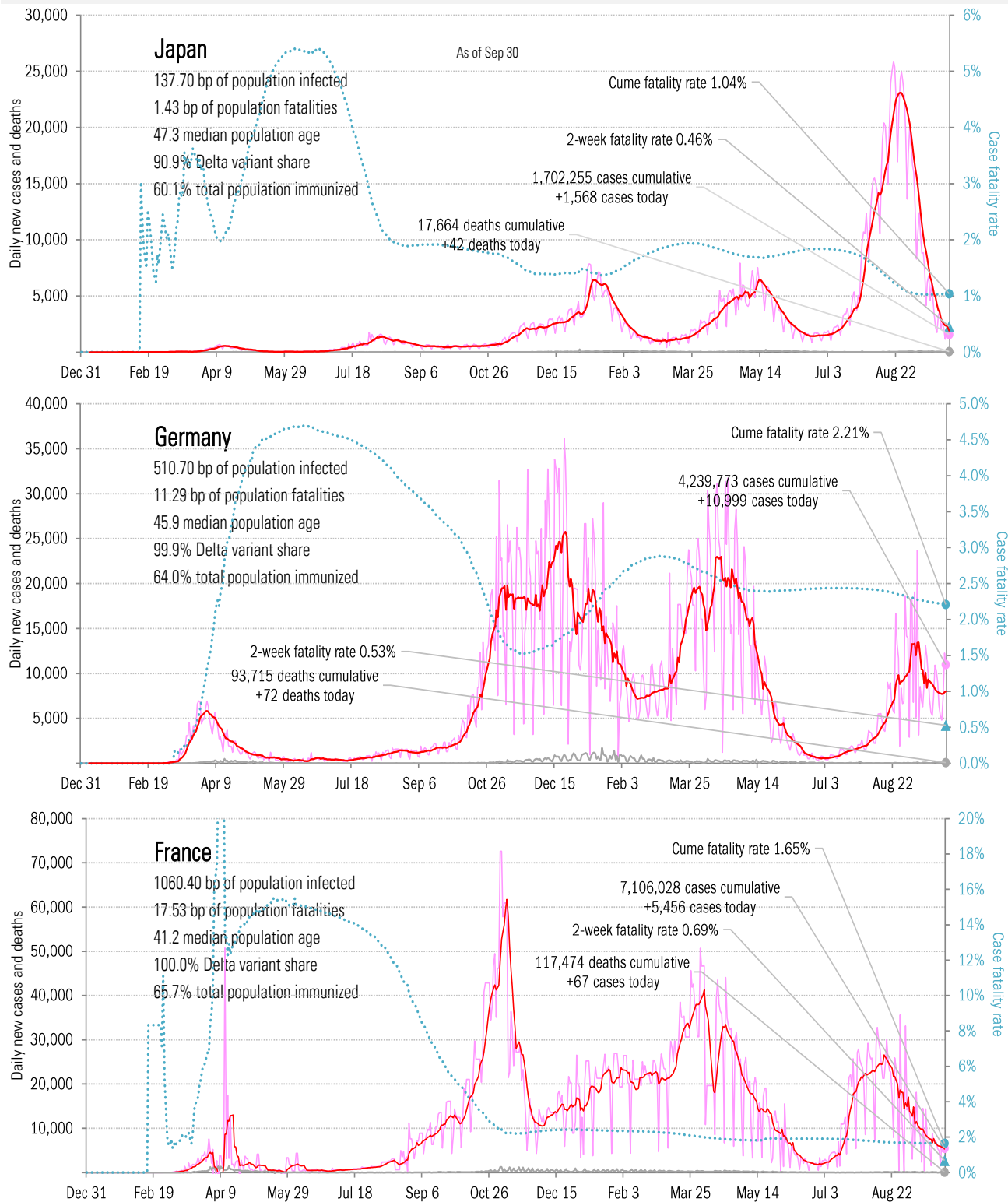
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

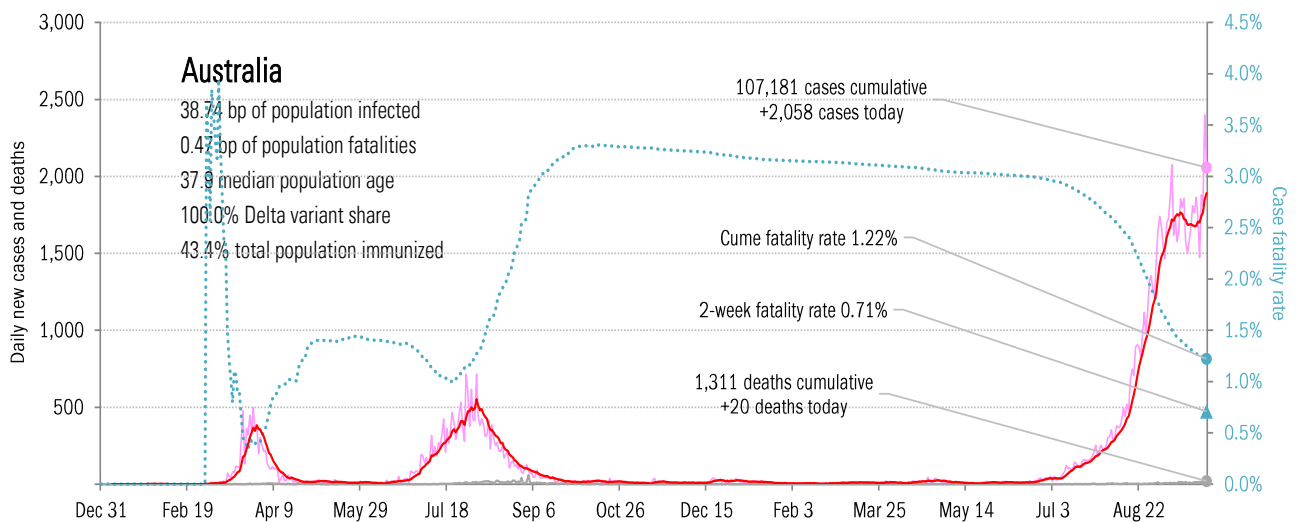
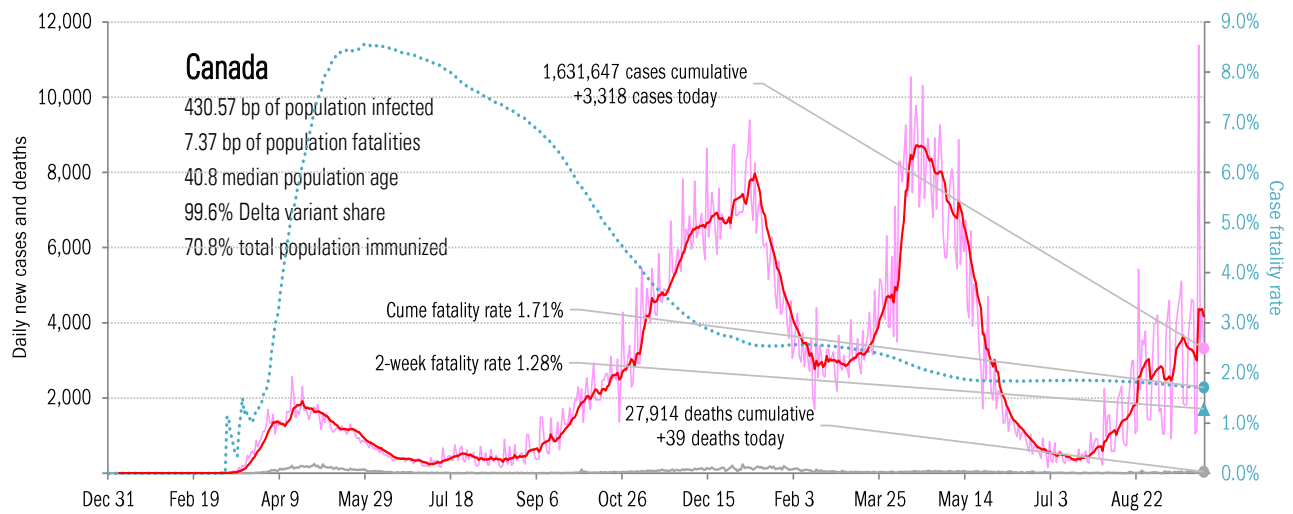
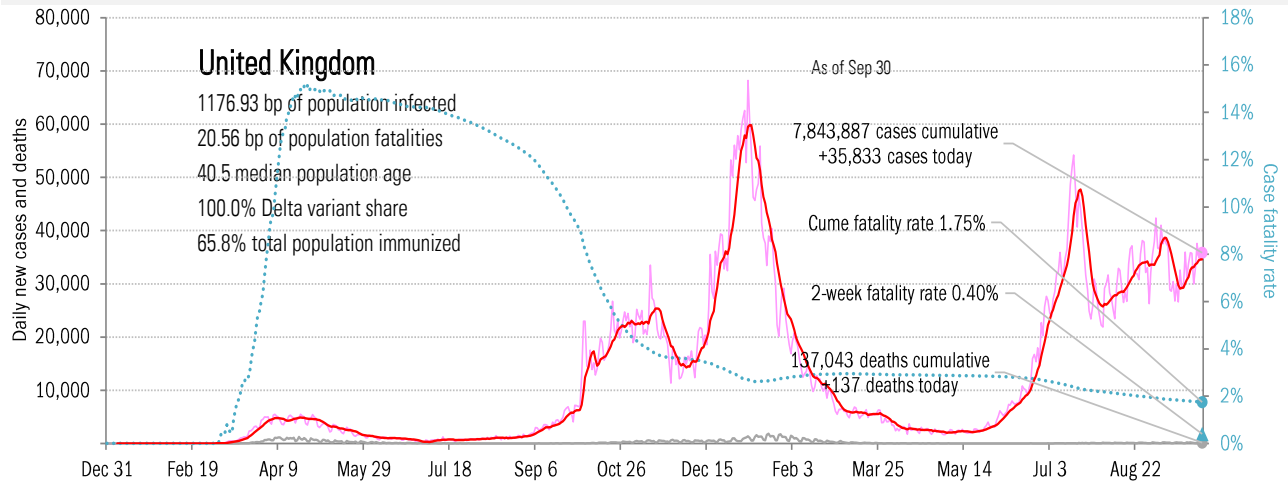
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

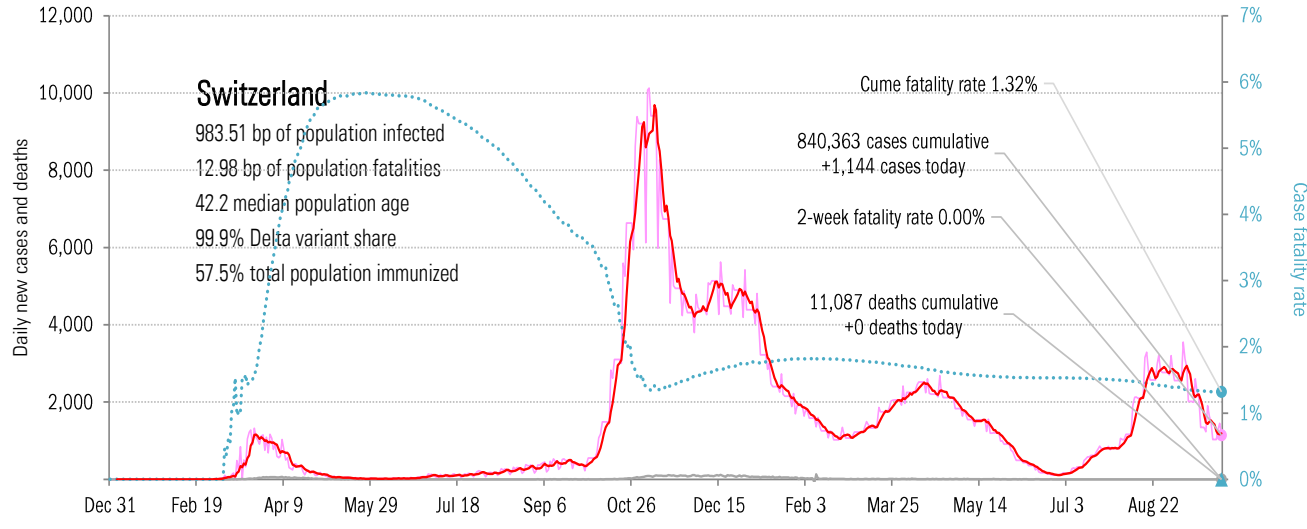
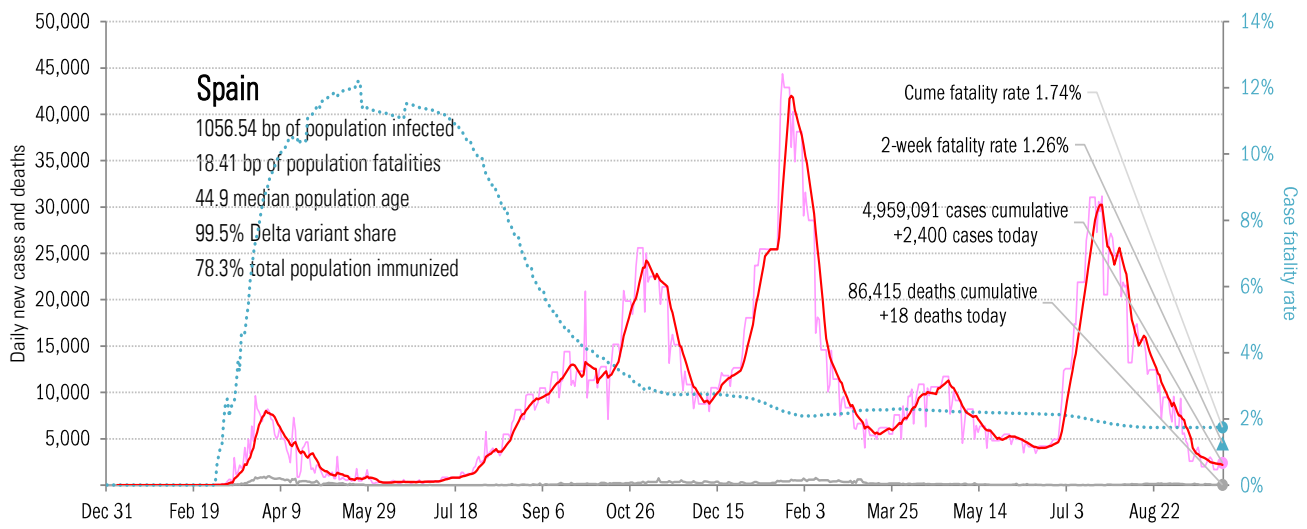
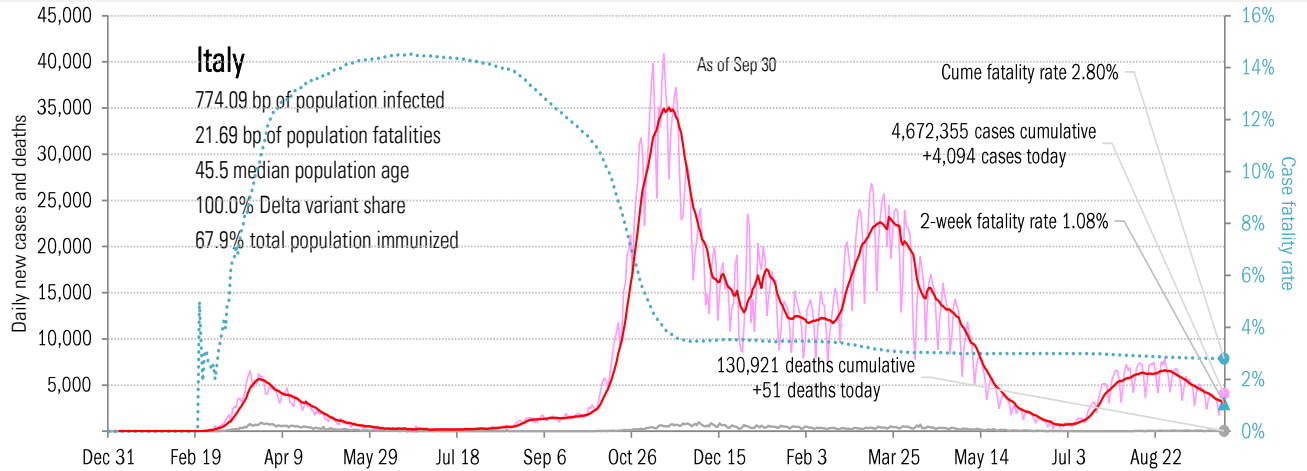


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

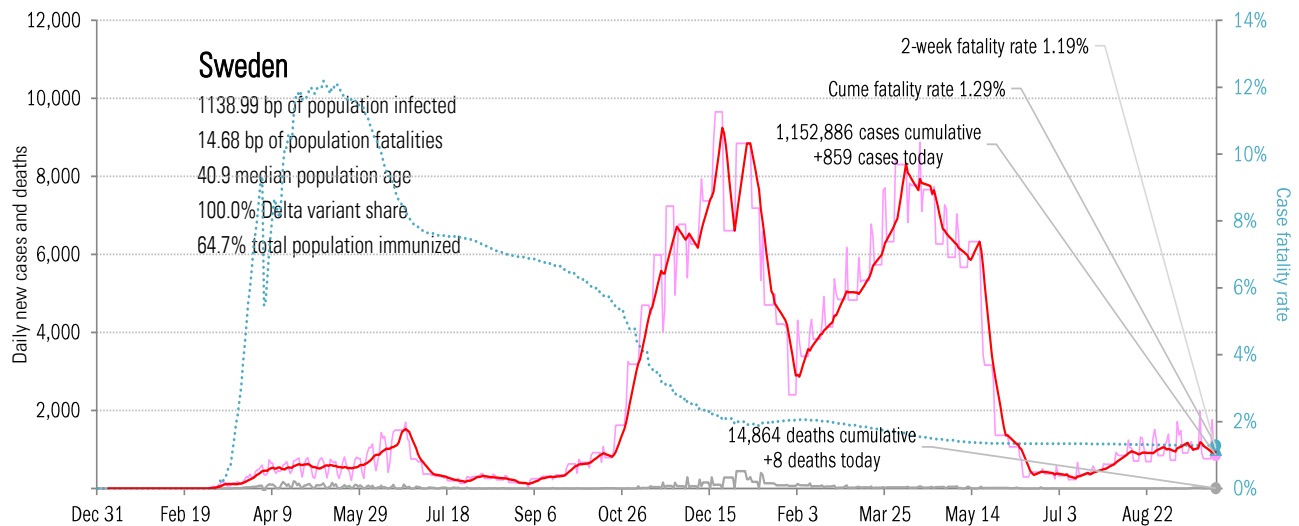
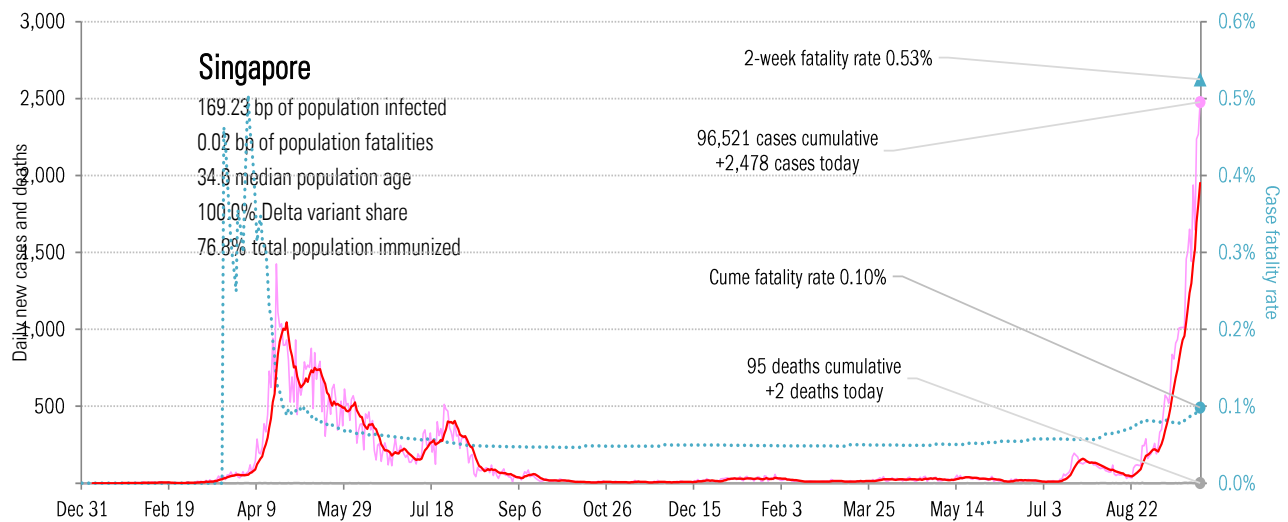
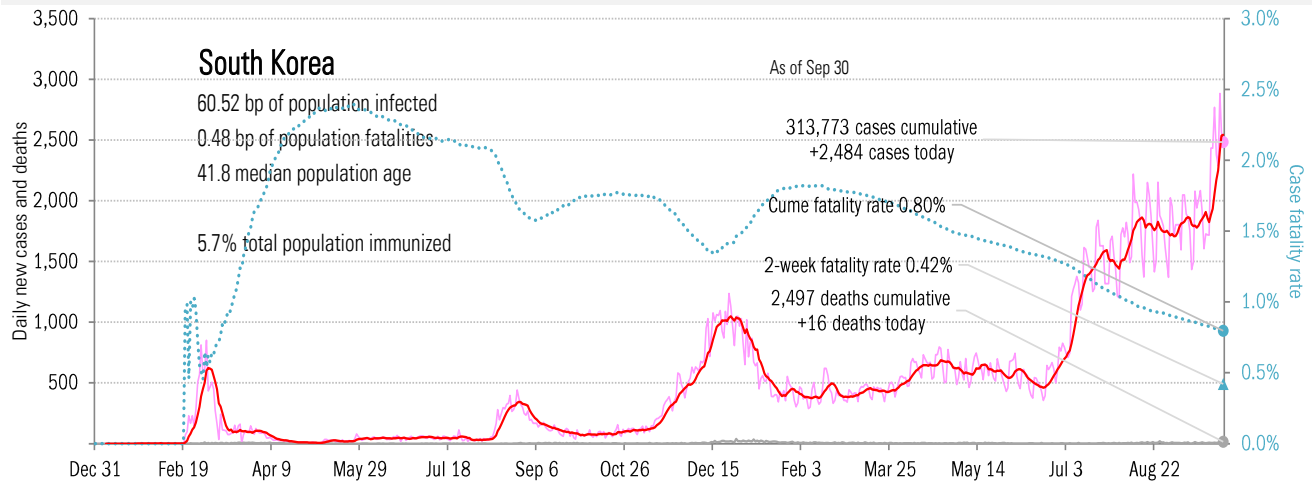
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

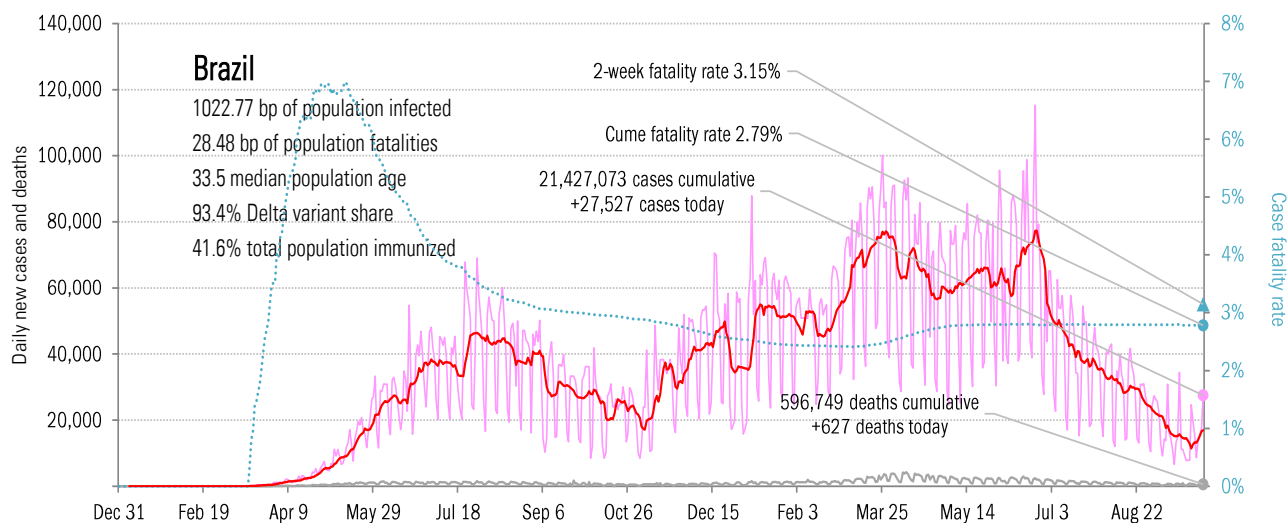
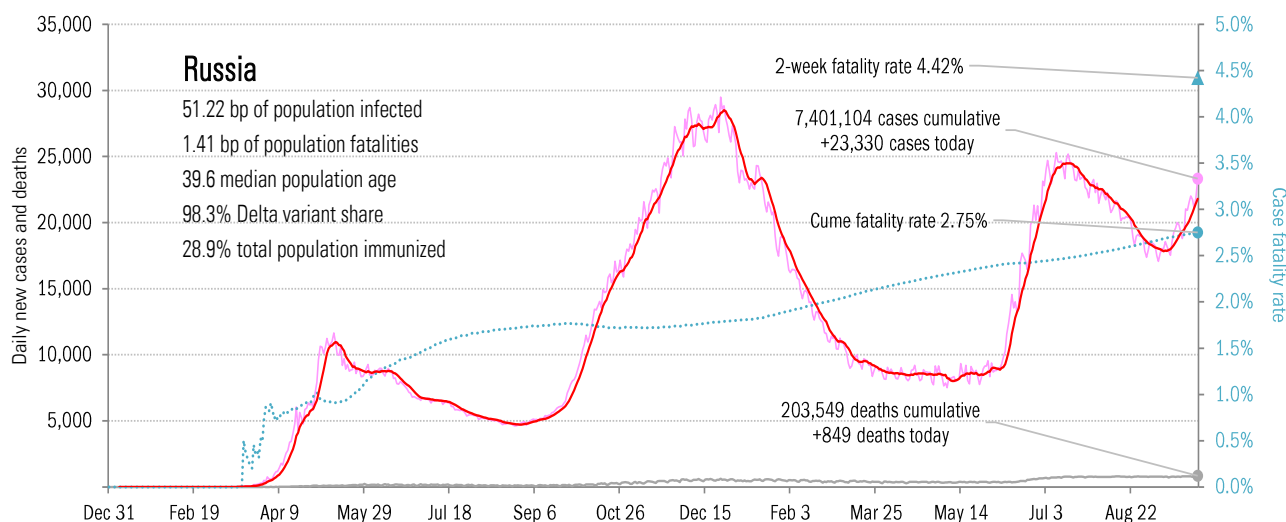
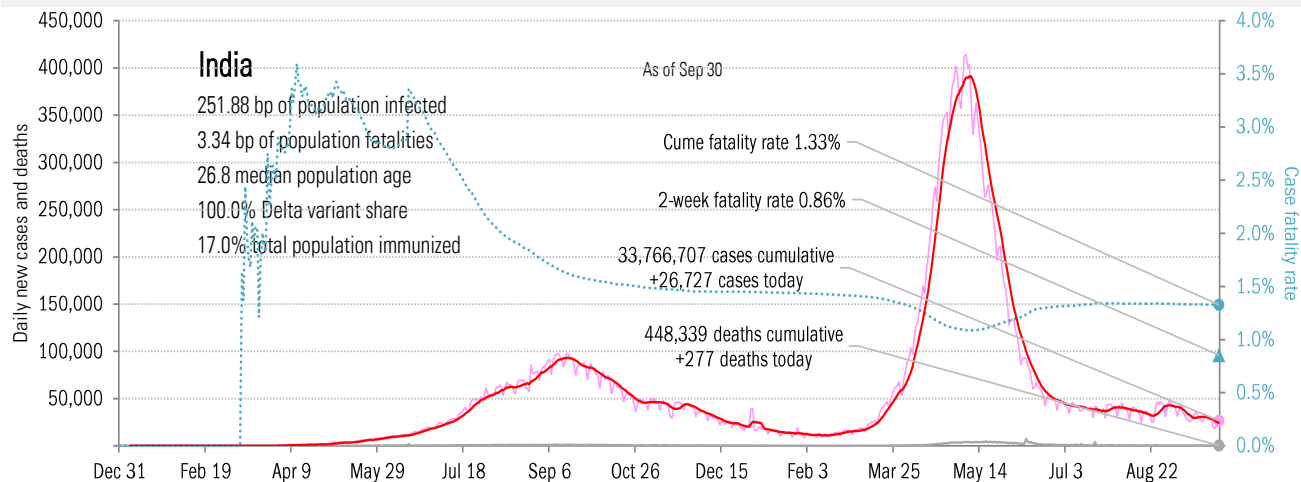
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

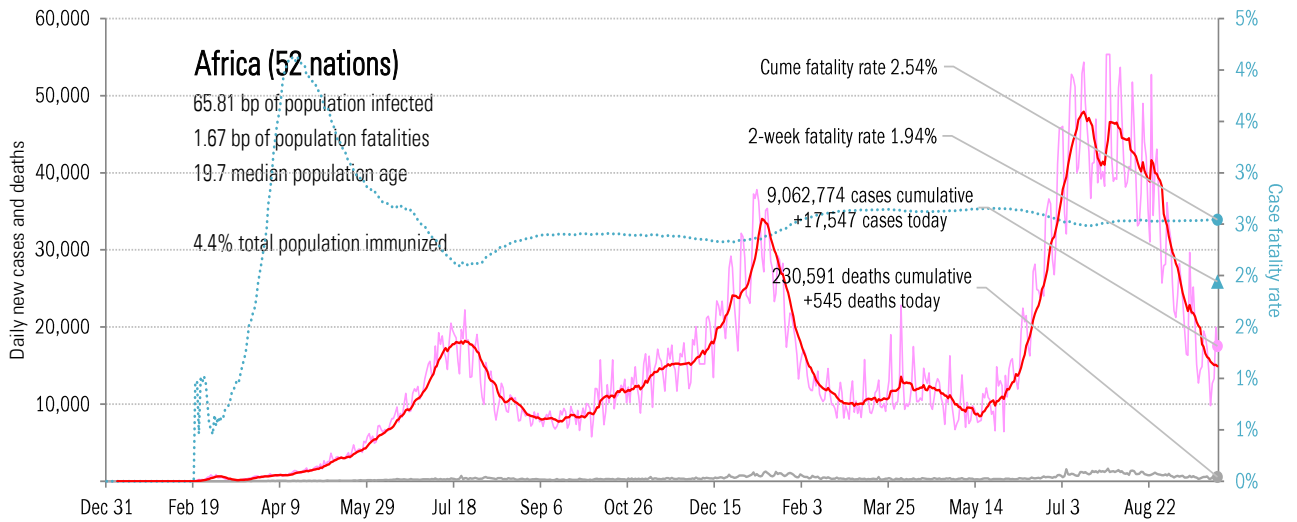
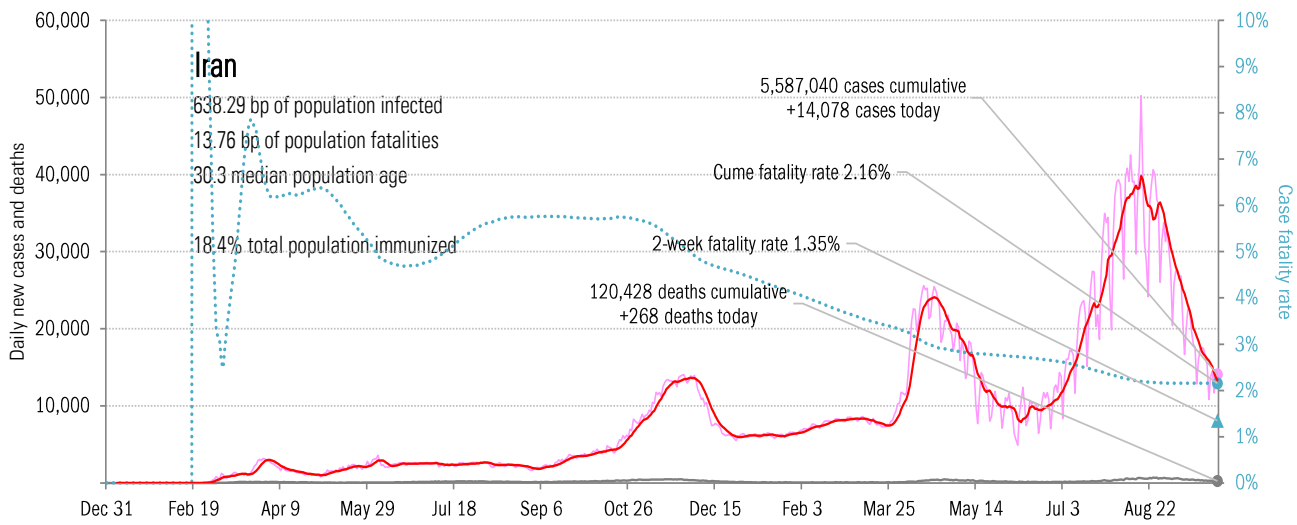
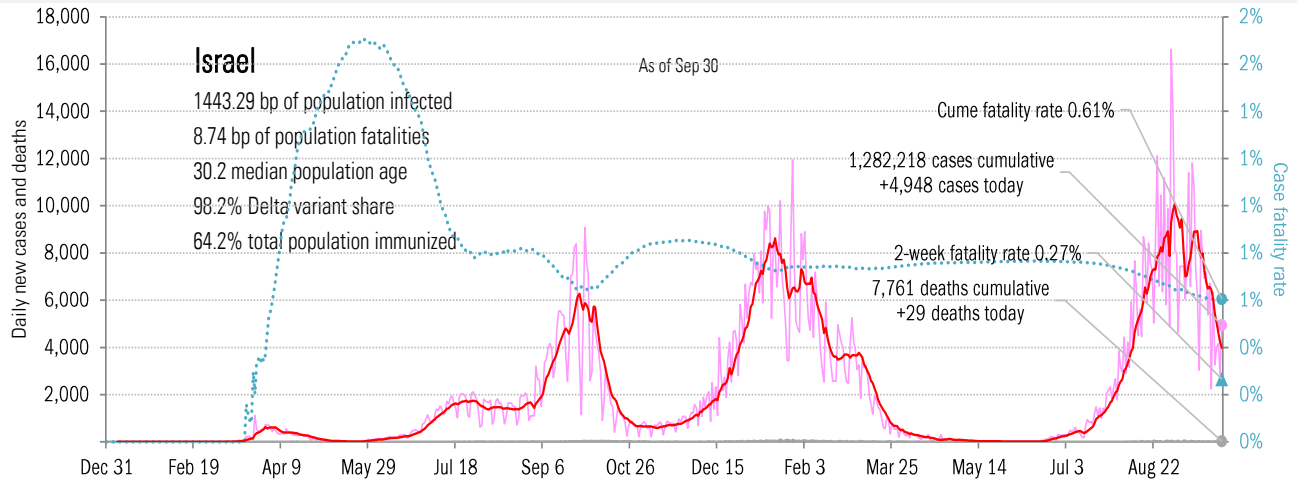
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

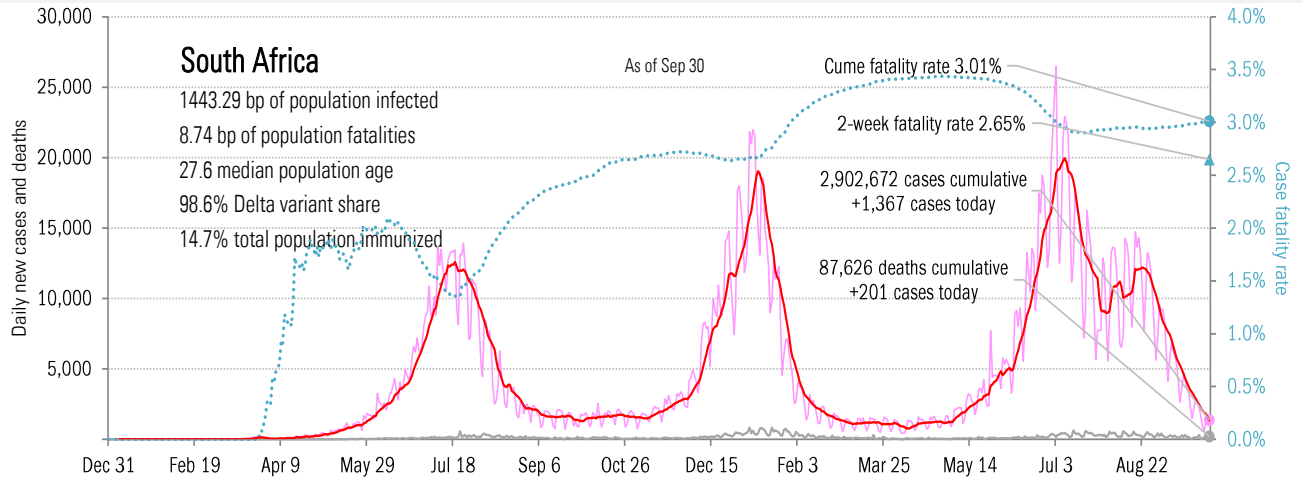
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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