

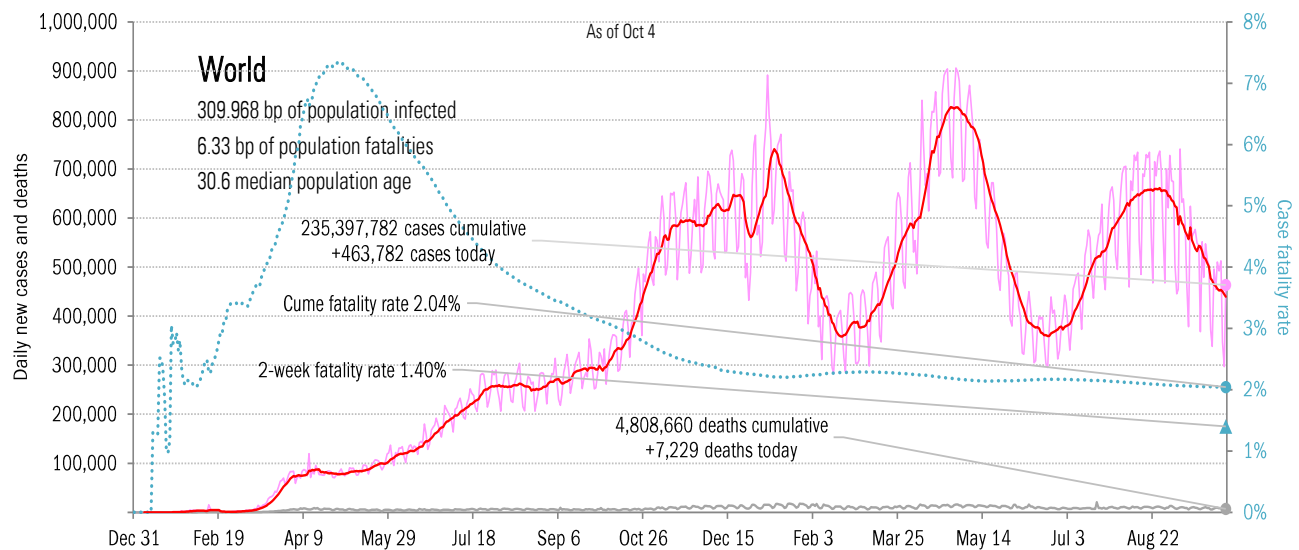
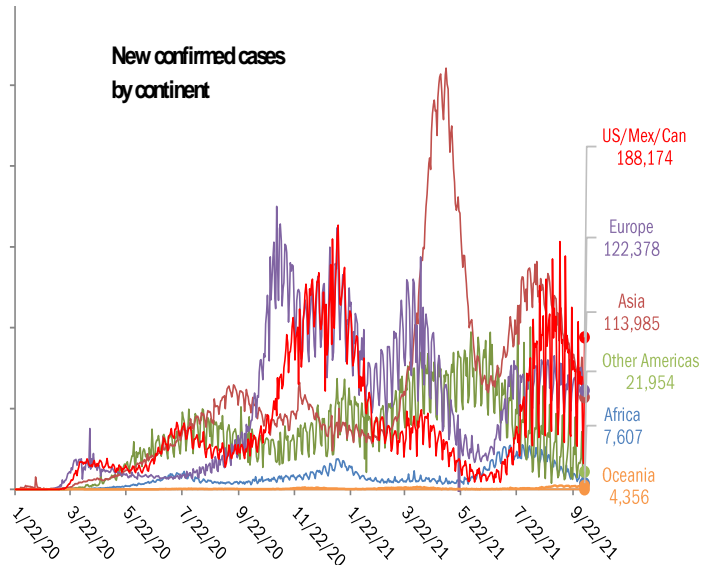
## Data Insights: Covid-2019 Monitor

Tuesday, October 5, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+174,535	United States	+2,011
United Kingdom	+34,502	Russia	+877
Turkey	+28,810	Mexico	+514
Russia	+25,150	Kazakhstan	+272
India	+18,346	India	+263
Iran	+14,607	Turkey	+248
Philippines	+10,641	Iran	+238
Brazil	+10,425	Brazil	+204
Thailand	+9,930	Bulgaria	+178
Canada	+8,377	Romania	+133
<b>+335,323</b>		<b>+4,938</b>	
World	+463,782	World	+7,229
Top ten	72%	Top ten	68%



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

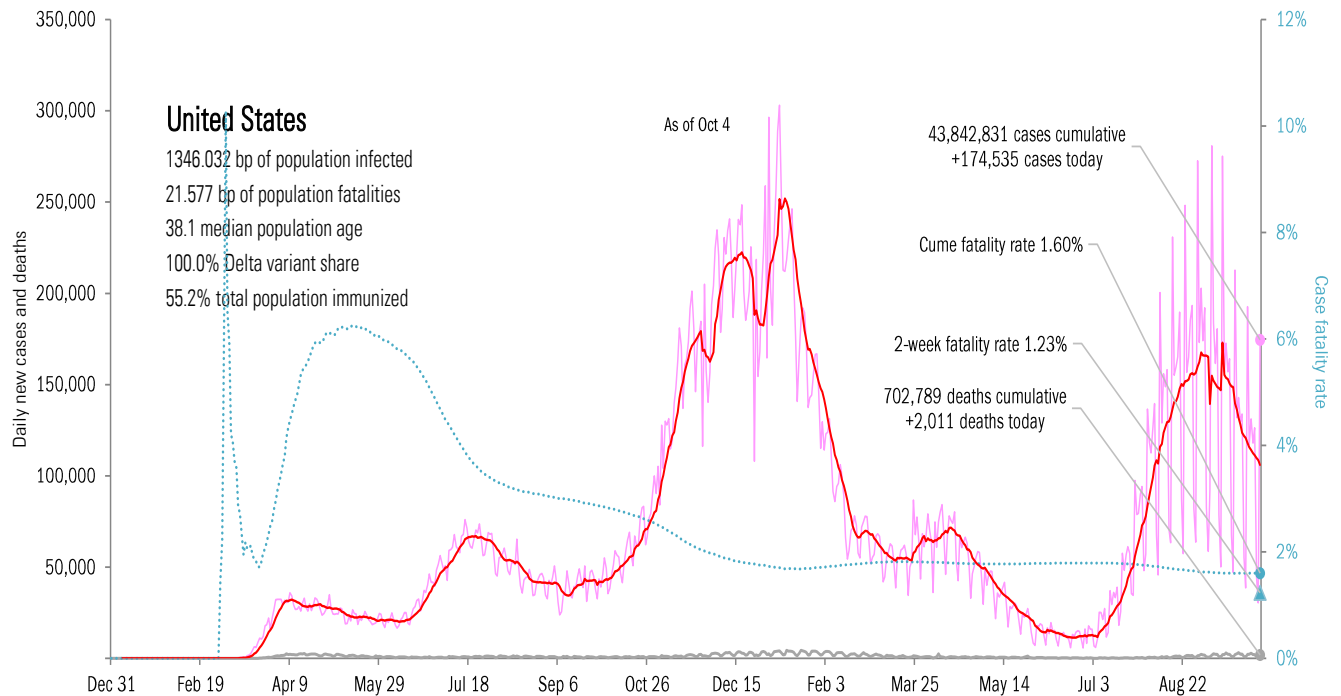
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
CA	+14,182		FL	+222		PA	+40		CA	4,746,601		CA	69,449		TX	361,413		ID	176%	GA	92%
NC	+10,685		GA	+203		NY	+29		TX	4,093,140		TX	66,044		FL	309,713		RI	86%	KY	91%
MI	+9,819		CA	+193		MI	+25		FL	3,610,682		NY	55,498		CA	298,803		MD	85%	ID	91%
TX	+8,779		SC	+132		MN	+25		NY	2,445,371		FL	55,130		NY	156,799		MA	84%	TX	90%
GA	+7,794		TX	+130		NV	+25		IL	1,638,003		PA	29,531		GA	153,200		GA	83%	AL	89%
VA	+7,762		TN	+118		CT	+17		GA	1,589,857		IL	27,509		CH	113,467		MN	82%	OK	87%
IL	+7,139		NC	+114		GA	+16		PA	1,449,368		NJ	27,488		PA	107,759		CT	82%	NC	85%
SC	+6,946		KY	+102		AR	+12		CH	1,433,957		GA	26,445		KY	107,251		PA	82%	NV	85%
WA	+6,924		VA	+102		IN	+8		NC	1,410,902		MI	22,503		IL	100,605		WA	81%	WV	85%
WI	+6,552		IN	+87		MT	+8		TN	1,238,023		CH	22,273		MI	84,241		SC	80%	NM	84%
+86,582			+1,403			+205			23,655,904			401,870			1,793,251						
All states	+174,535		+2,011			-562			All states	43,842,831		702,789			3,189,161			All states	70%	67%	
Top ten	50%		70%			-36%			Top ten	54%		57%			56%			Median	76%	78%	

Some states not reporting

## Five most improved US states

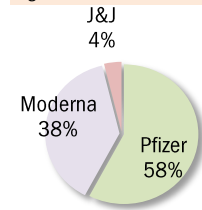
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
PA	-559	PA	-13	VA	-75	FL	+30 bp
AR	-291	AR	-4	TN	-60	MT	+20 bp
MO	-265	H	-4	CH	-35	NH	+20 bp
NJ	-208	AZ	-3	WA	-31	SC	+20 bp
WV	-181	MO	-2	H	-27	VA	+20 bp



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	408,094,350		+0.990 million		US	55.2%	64.1%	
	One dose	% Pop	Immune	% pop	New immune today	UK	66.0%	71.8%
Total population	220,744,030	66%	190,447,500	57%	+0.295 million	France	66.1%	74.6%
Age 12 to 17	13,761,738	58%	11,213,435	47%	+0.039 million	Spain	78.6%	80.7%
Age 18 to 64	152,640,986	75%	131,054,446	64%	+0.222 million	Germany	64.2%	67.6%
Age 65 and over	53,261,993	97%	47,296,989	86%	+0.032 million	Italy	68.4%	75.3%
						Australia	46.0%	66.3%
						Israel	64.4%	70.0%
						Canada	71.4%	77.2%
						Japan	61.8%	72.1%
						Africa	4.5%	6.9%
						India	17.9%	47.5%
						Brazil	43.9%	71.2%
						China	72.6%	76.2%



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



Every American >18 immune in **83 days** by Dec 25, 2021  
 69.1% of population >18 immunized  
 14.9% previously tested positive  
**84.0%** vs 60% adult herd immunity

As of Oct 4

Global data differs from sources, timing

AK
57.6%
50.9%

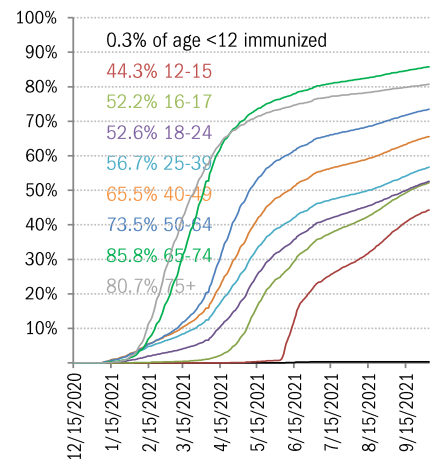
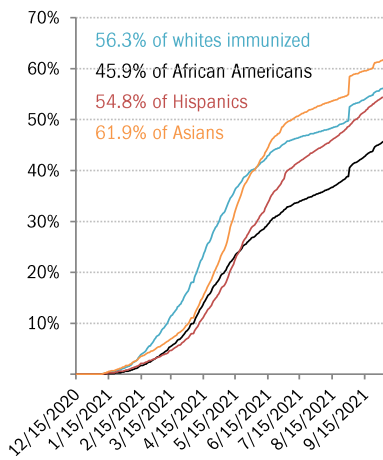
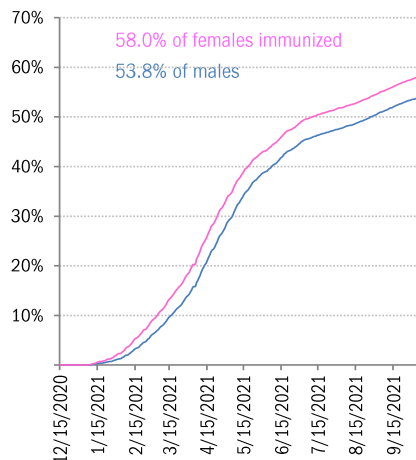
WI
61.2%
56.8%

ME
74.4%
68.7%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
67.4%	47.4%	55.1%	51.3%	63.7%	68.8%	57.4%	71.9%	78.0%	70.6%	
61.0%	42.0%	48.8%	44.5%	58.4%	53.8%	52.6%	64.2%	69.7%	61.8%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
66.9%	61.2%	48.6%	59.5%	58.2%	52.5%	54.5%	73.1%	72.9%	77.8%	
61.2%	51.1%	41.7%	51.9%	54.1%	48.7%	50.5%	58.2%	64.7%	68.2%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
72.2%	59.1%	65.9%	59.5%	55.2%	61.1%	48.3%	68.8%	71.0%	76.7%	75.7%
59.4%	50.9%	59.7%	54.8%	48.3%	52.8%	40.5%	61.0%	64.4%	69.1%	68.8%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	59.6%	72.9%	60.3%	56.0%	52.8%	60.3%	55.6%	71.3%	66.6%	
	51.4%	63.5%	51.5%	46.0%	45.6%	50.1%	47.8%	60.4%	57.9%	
			OK	LA	MS	AL	GA			
			57.0%	52.0%	50.3%	52.9%	55.1%			
			48.0%	45.8%	43.6%	43.0%	45.7%			
			TX					FL		PR
			59.8%					67.3%		79.5%
			51.5%					57.7%		70.7%

HI
77.0%
58.2%

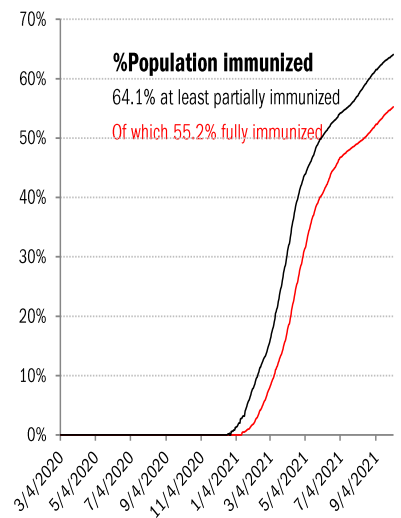
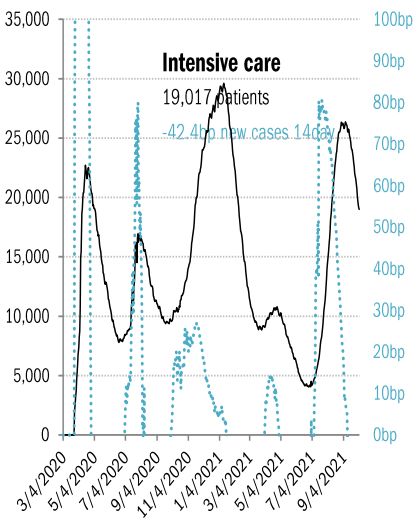
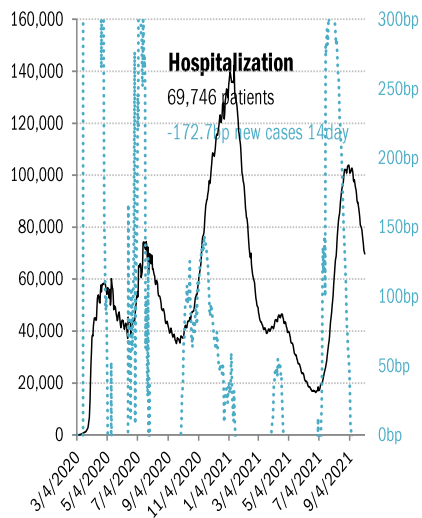
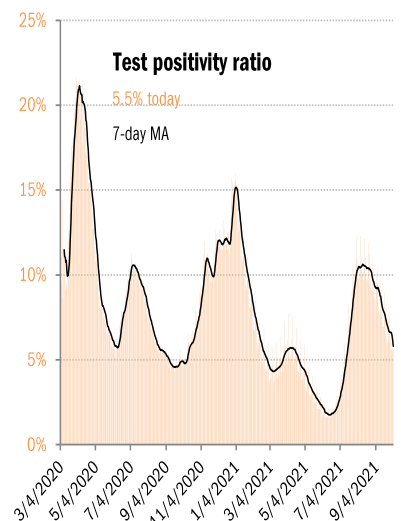
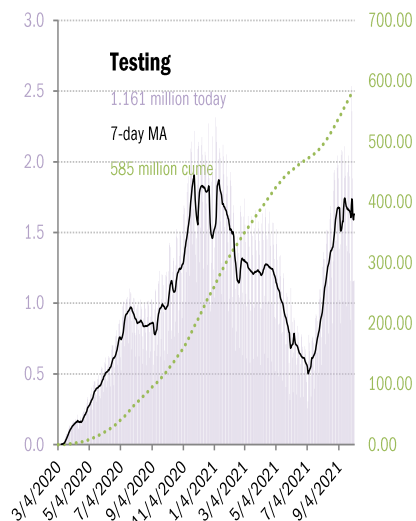
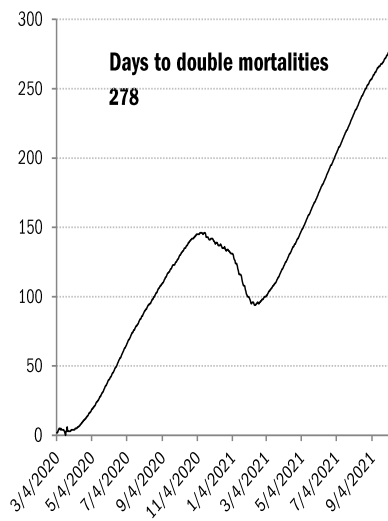
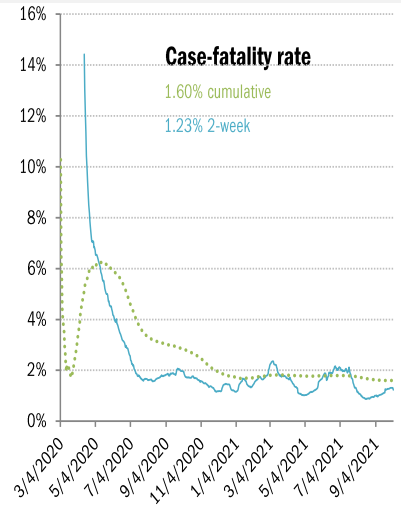
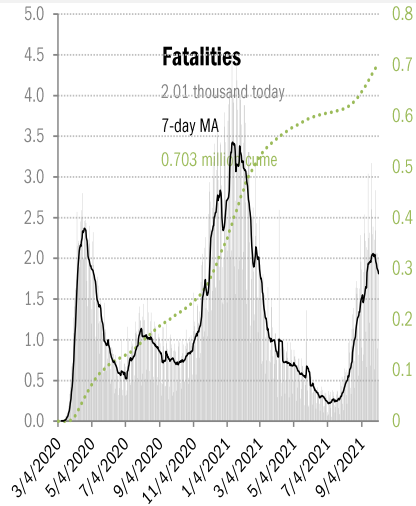
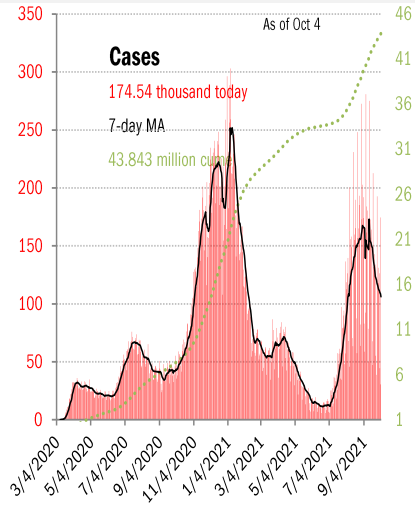
## The demographics of US vaccination



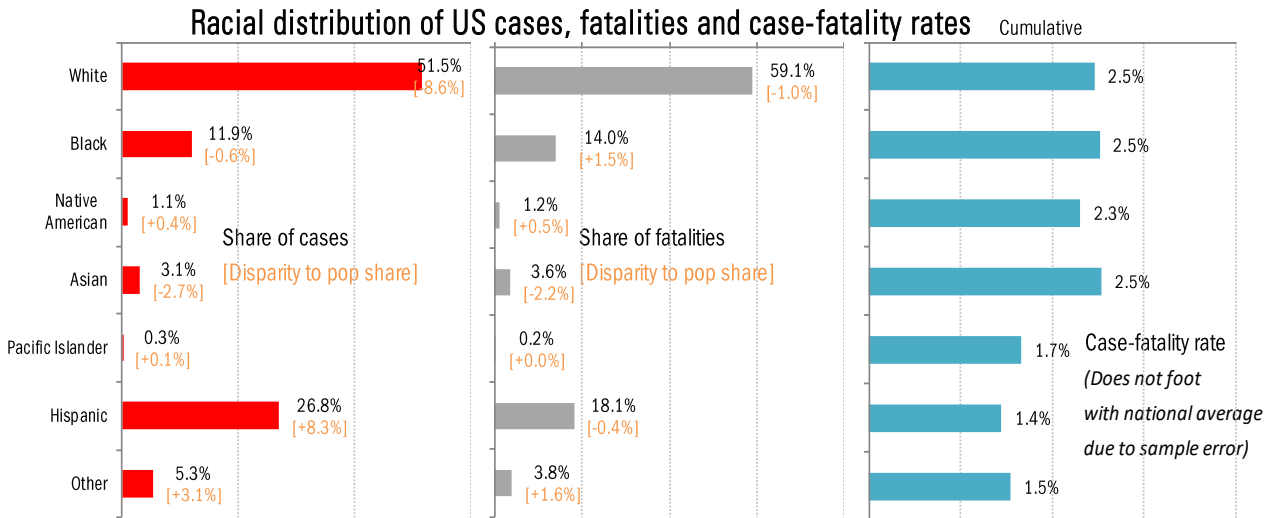
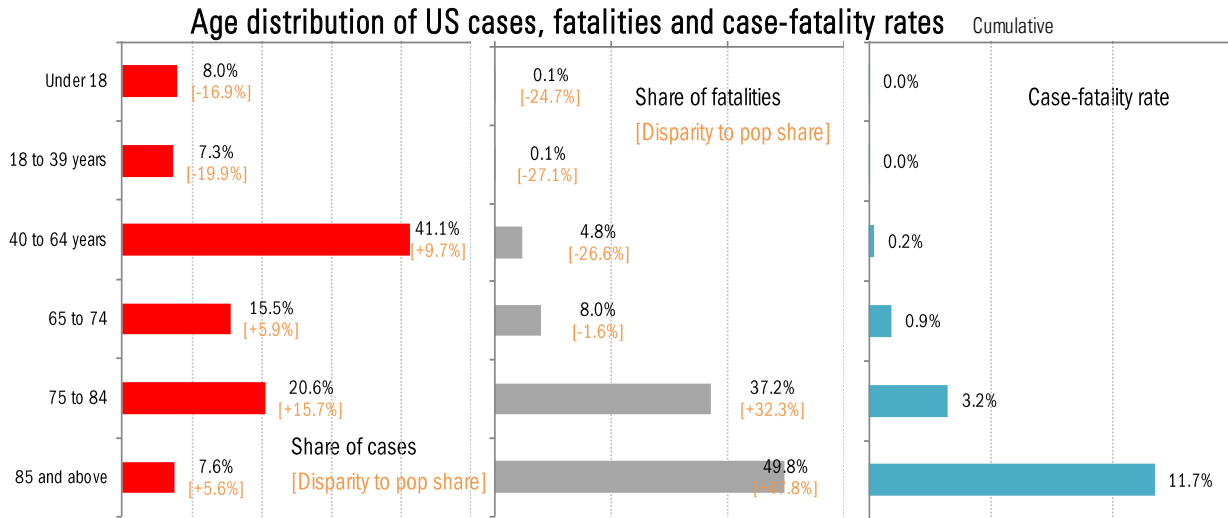
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

# US deep-dive

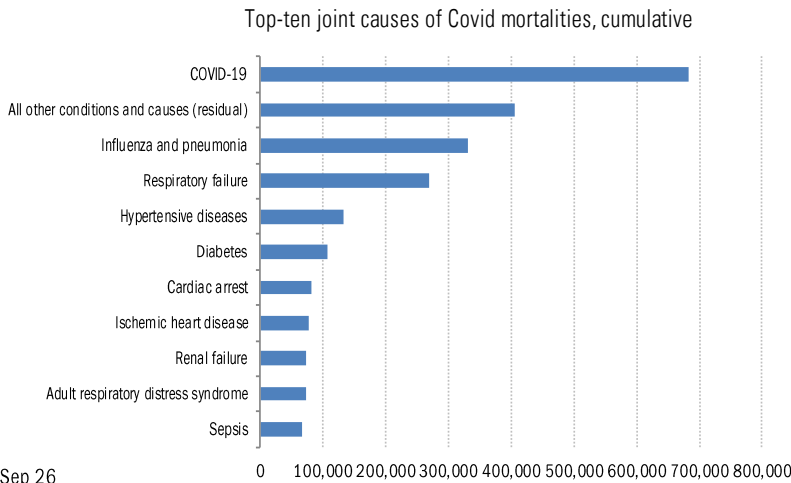
National and state-by-state data do not line up because of different sources



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



### Comorbidities



As of Sep 26

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

[William Shatner will fly to space aboard Blue Origin rocket](#)

Marcia Dunn  
*AP*  
October 4, 2021

[Thailand's Quarantine-Island Experiment Is Showing \(Modest\) Results](#)

Richard C. Paddock  
*New York Times*  
October 4, 2021

[Battling Delta, New Zealand Abandons Its Zero-Covid Ambitions](#)

Natasha Frost  
*New York Times*  
October 4, 2021

[Unlearned AIDS Lessons for Covid](#)

John Tierney  
*Wall Street Journal*  
October 3, 2021

[China PCR Purchases Spiked in Months Before First Known Covid Cases, Firm Says](#)

Jamie Tarabay  
*Bloomberg*  
October 4, 2021

[De Blasio says 95 percent of NYC schools staff vaccinated as mandate takes effect](#)

Justine Coleman  
*The Hill*  
October 4, 2021

[Don't blame Brexit for shortages](#)

Philip Pilkington  
*UnHerd*  
October 1, 2021

[By the Numbers — How 100 School Systems Are \(and Aren't\) Adapting to COVID: As Some Districts Use Test-to-Stay to Avert Quarantines, Majority Don't Require Testing](#)

Bree Dusseault and Christine Pitts  
*The 74*  
October 3, 2021

[Fauci slammed for claiming it's 'too soon' to consider Christmas gatherings](#)

Lindsay Kornick  
*Fox News*  
October 3, 2021

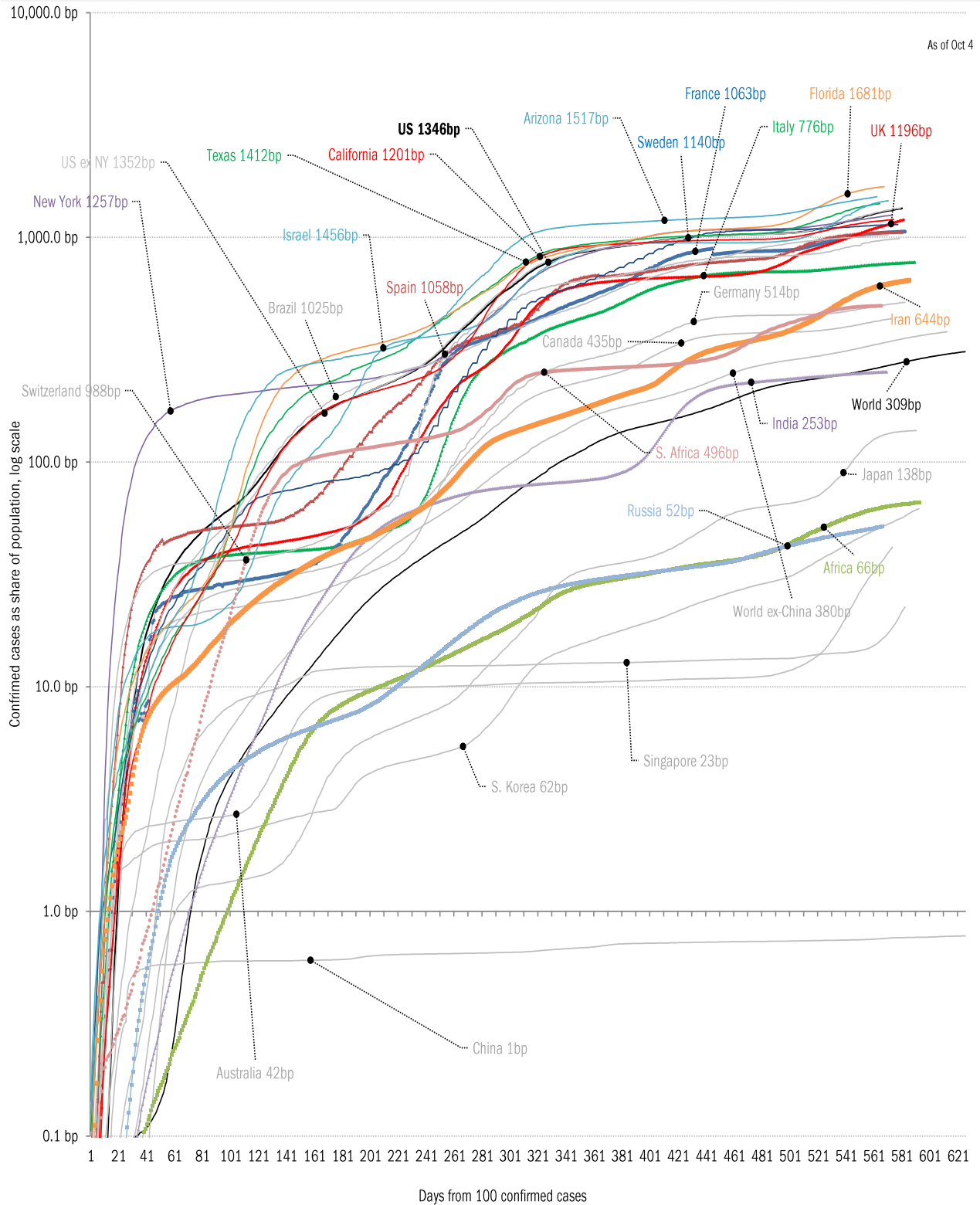
Meme of the day



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



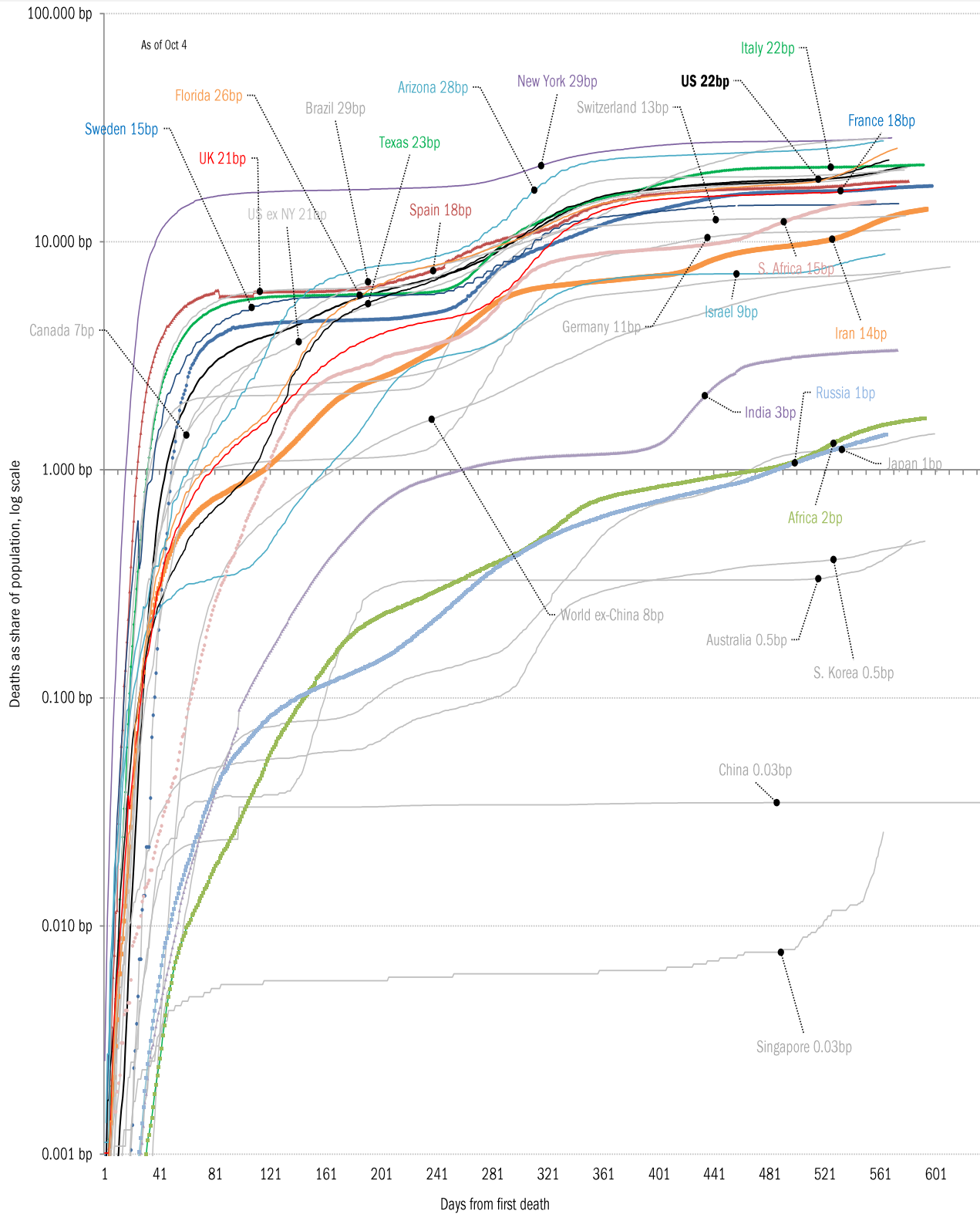
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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*

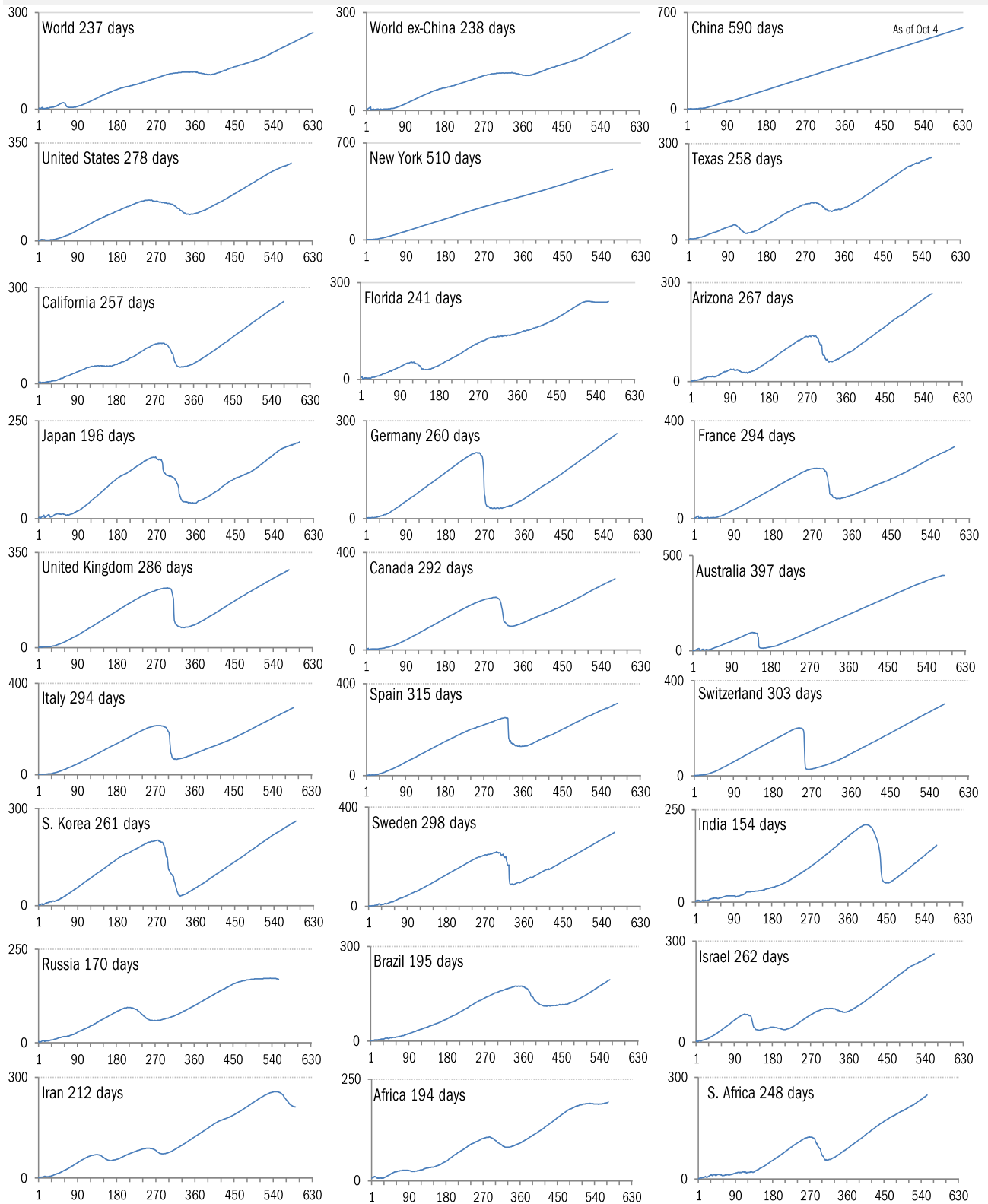


Source: [Johns Hopkins](#), TrendMacro calculations

# "Exponential"? Our most reliable evidence of the rate of spread of Covid-19

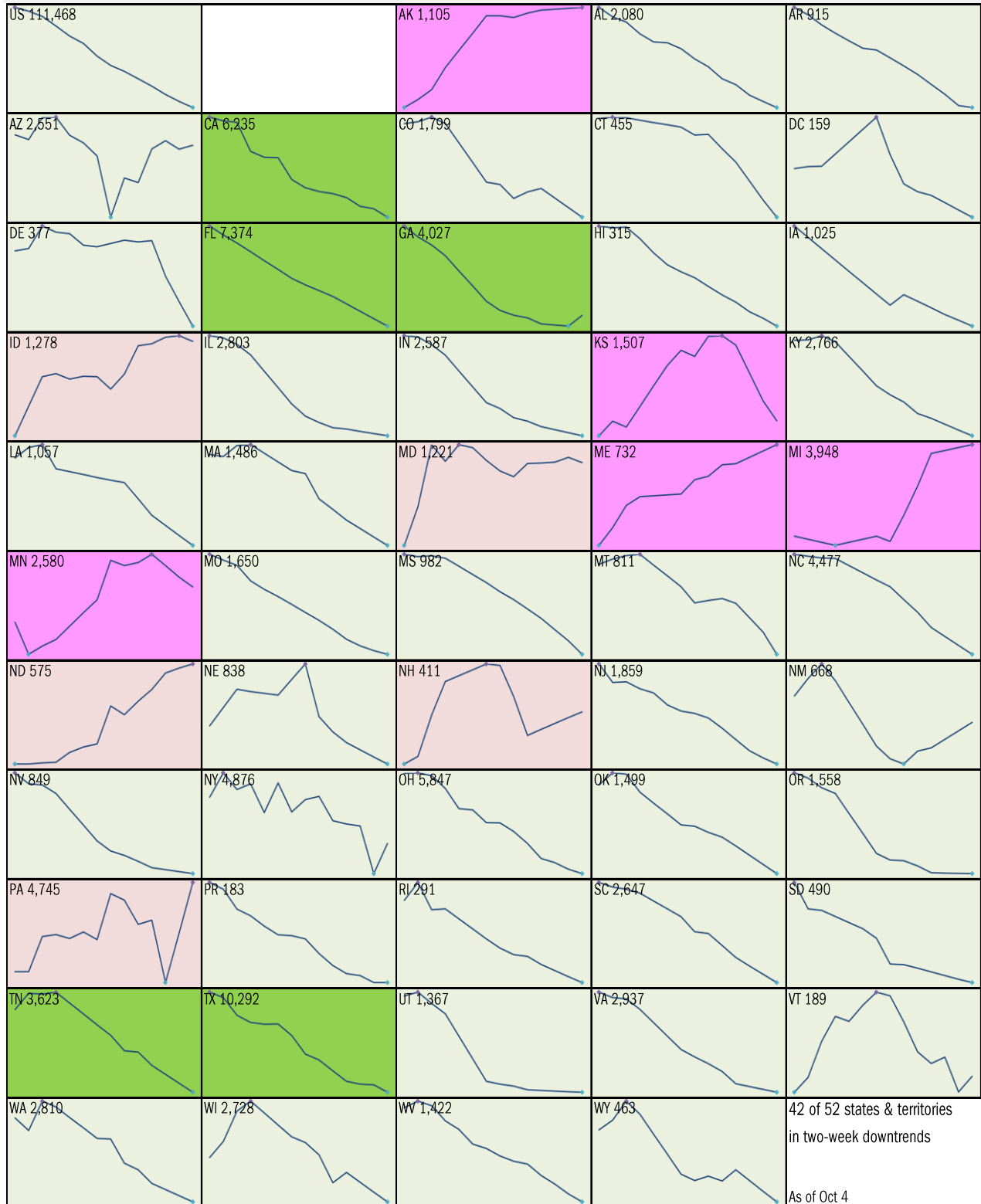
Vertical: days to double deaths Horizontal: days from first death

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

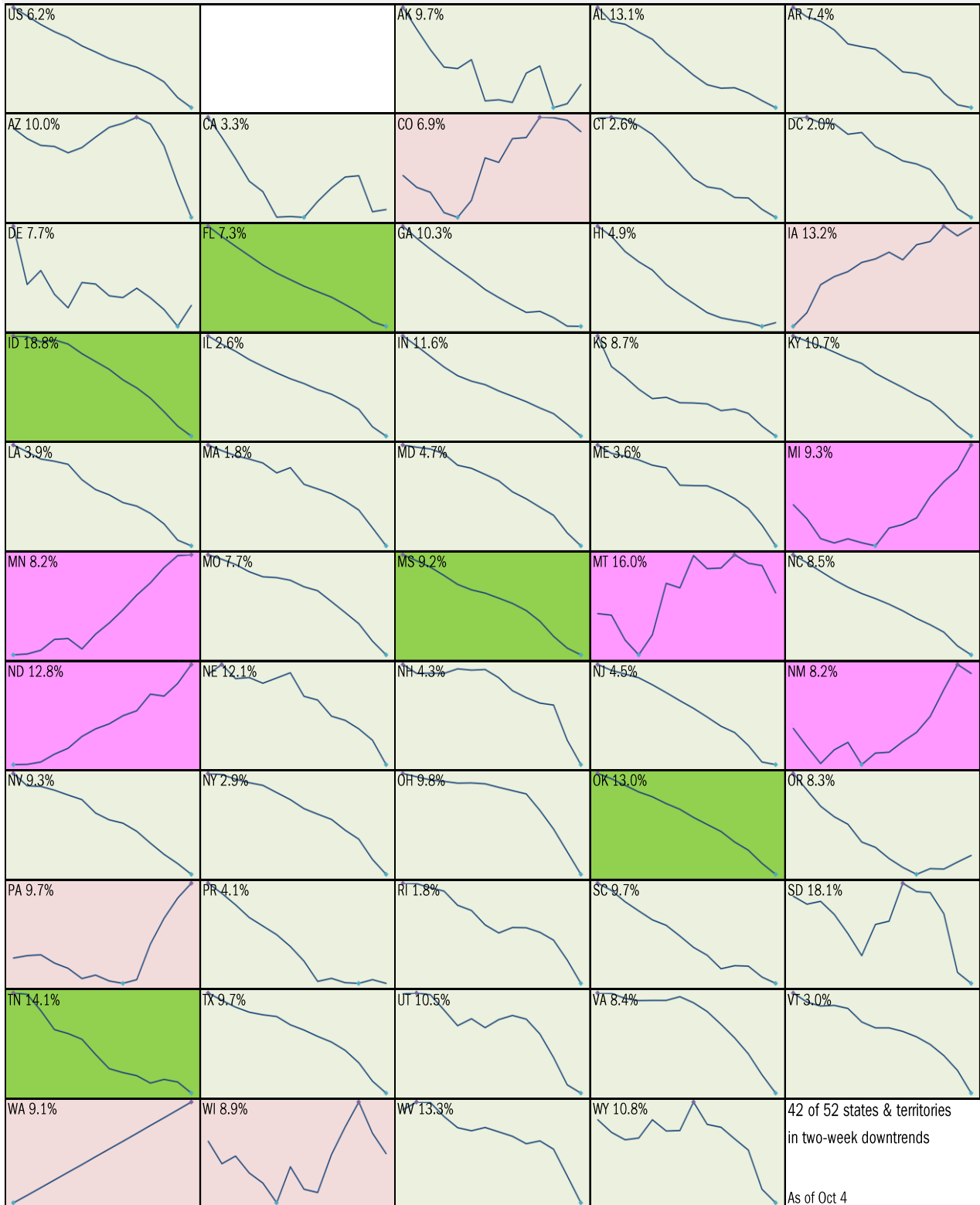


Source: [Johns Hopkins](#), TrendMacro calculations

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

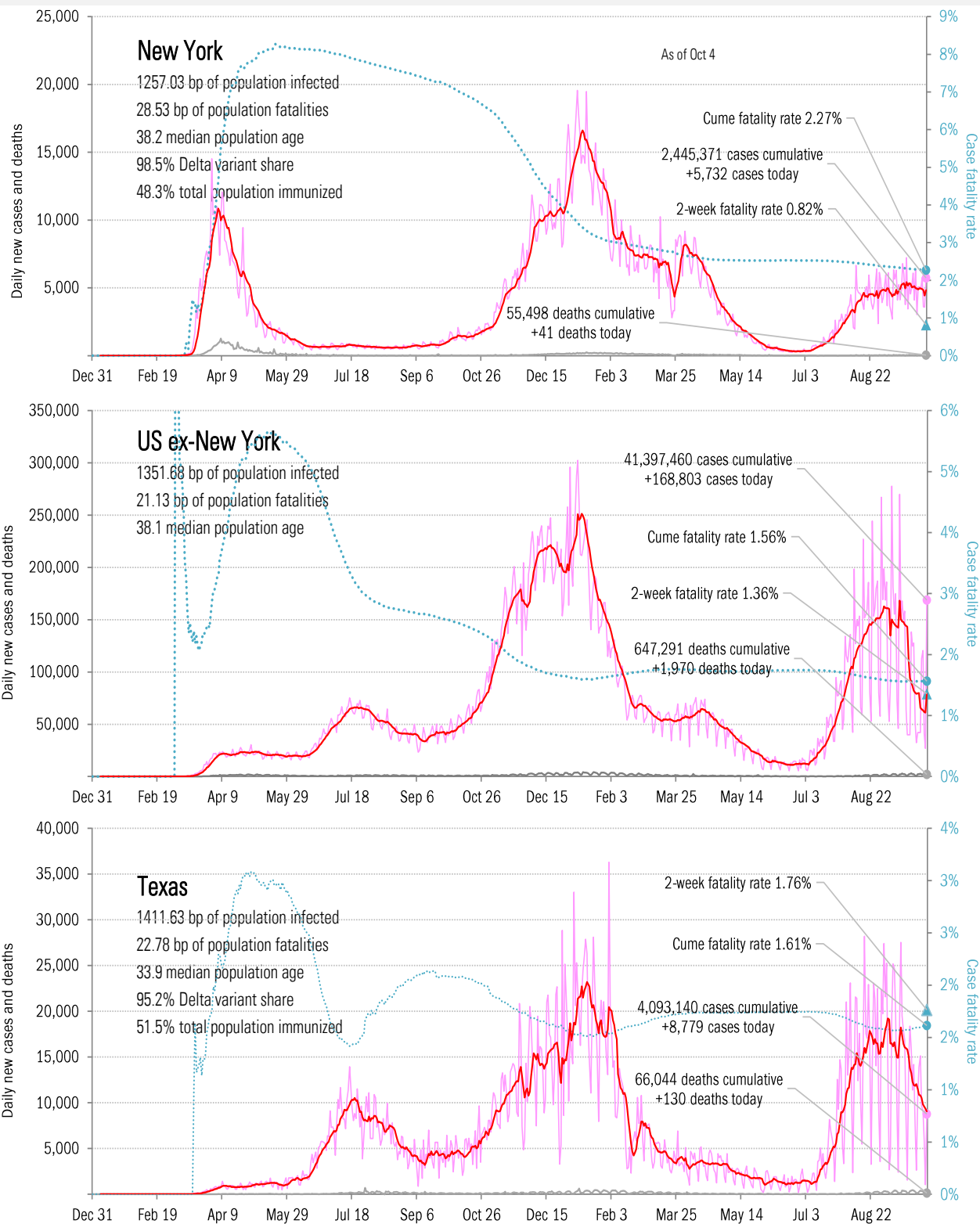
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

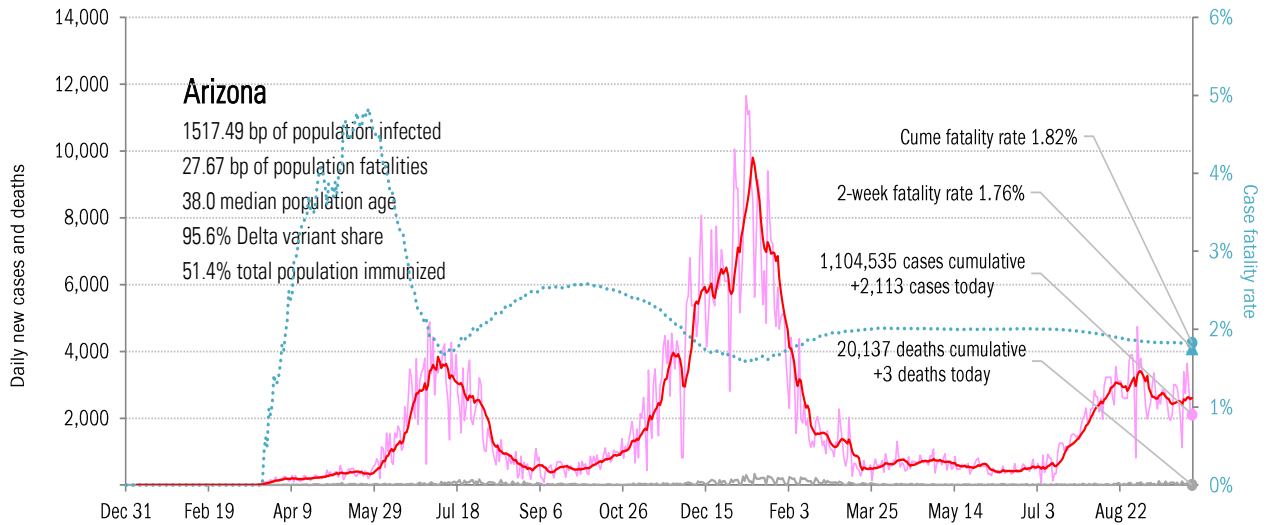
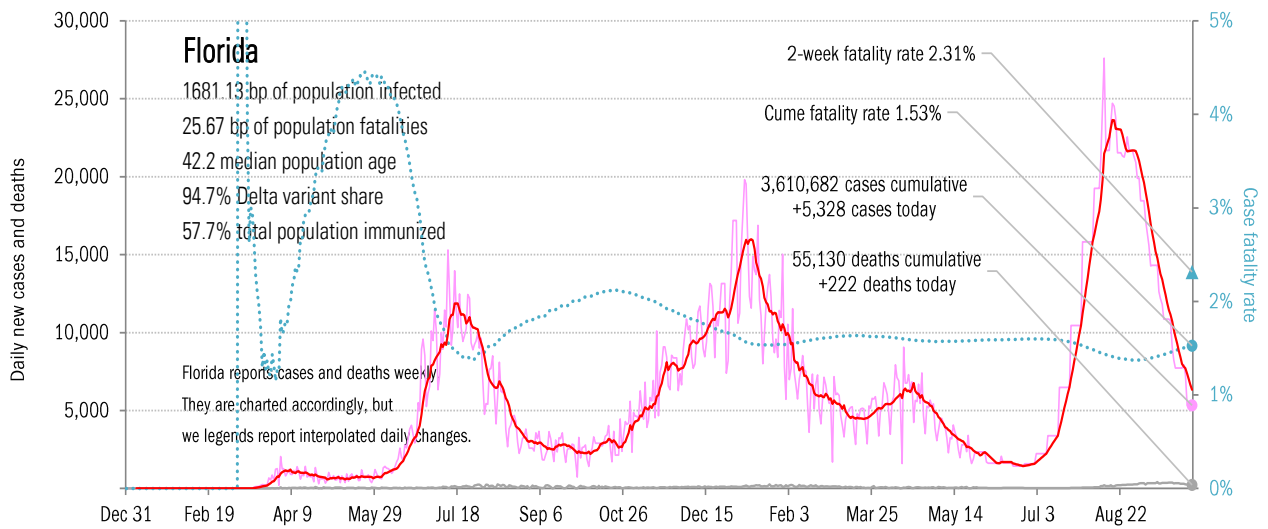
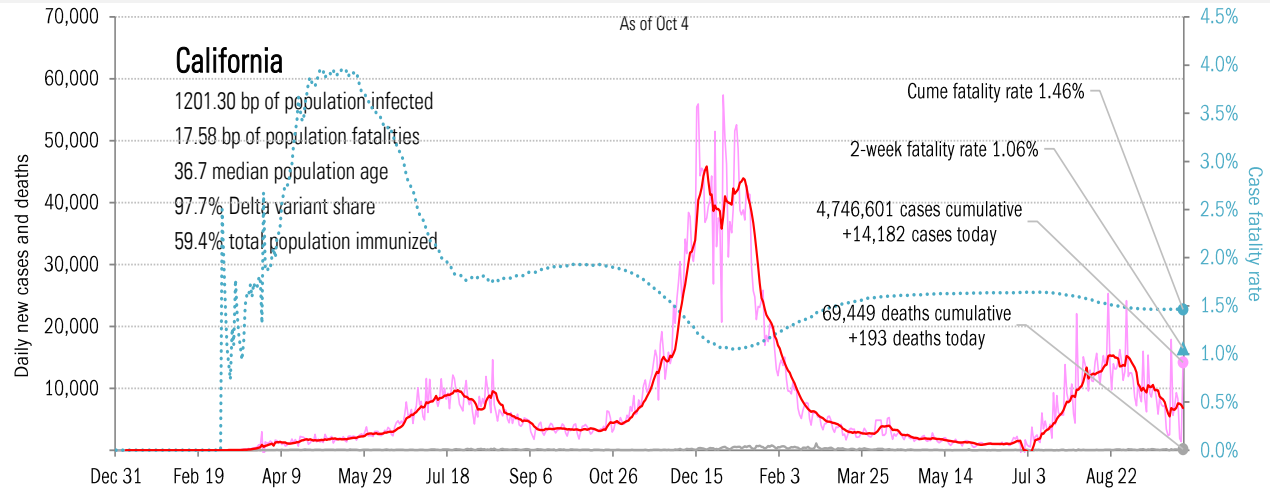
Cases: 7-day average and daily Deaths: Daily



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

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

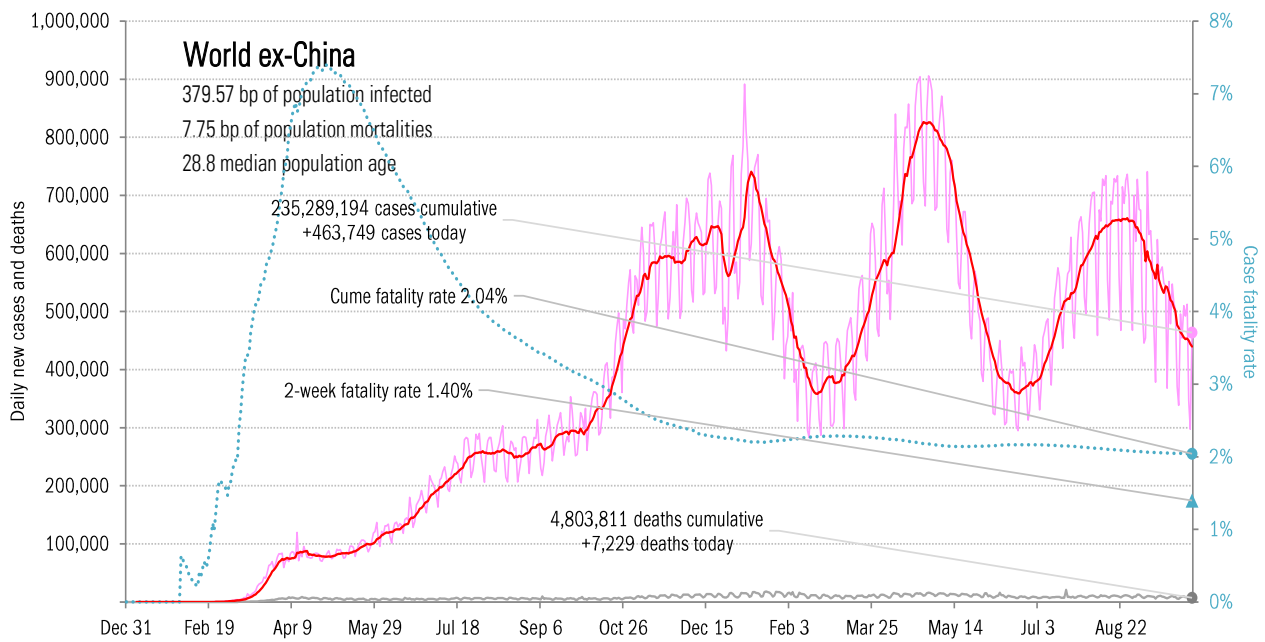
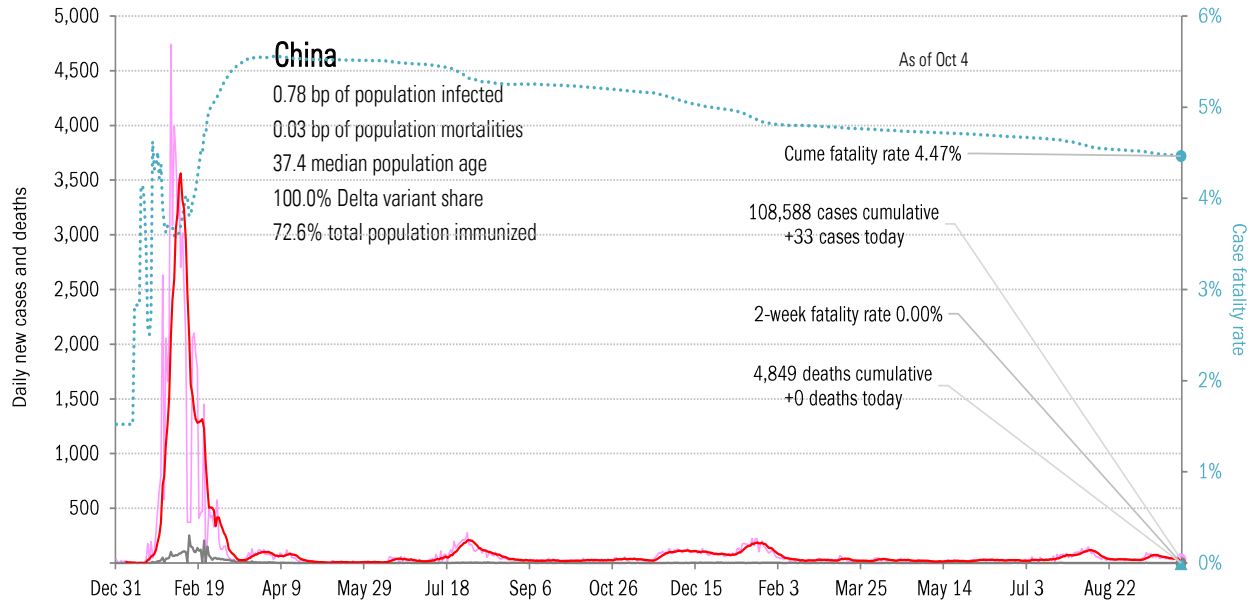
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

Cases: 7-day average and daily Deaths: Daily

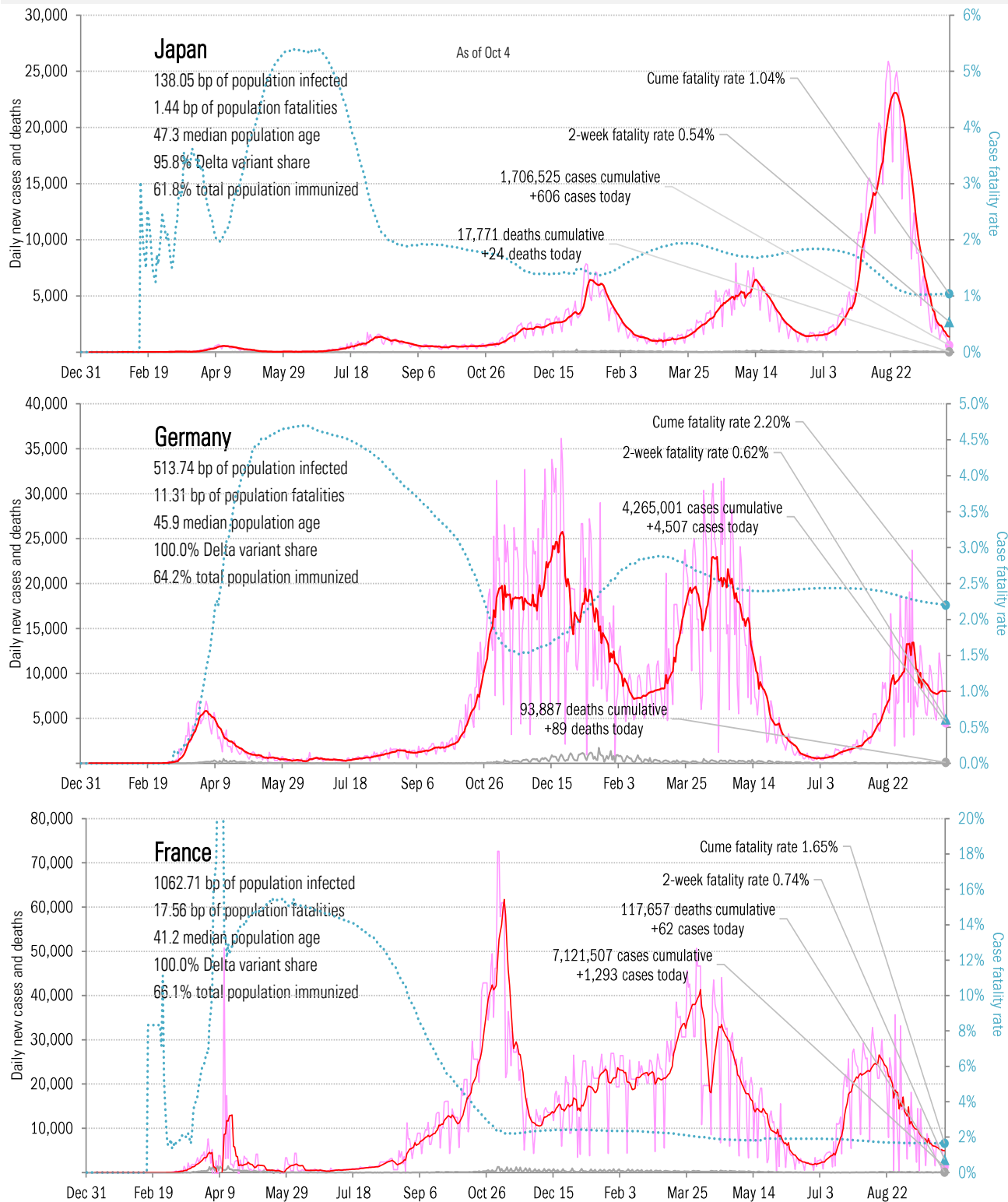


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in the largest economies

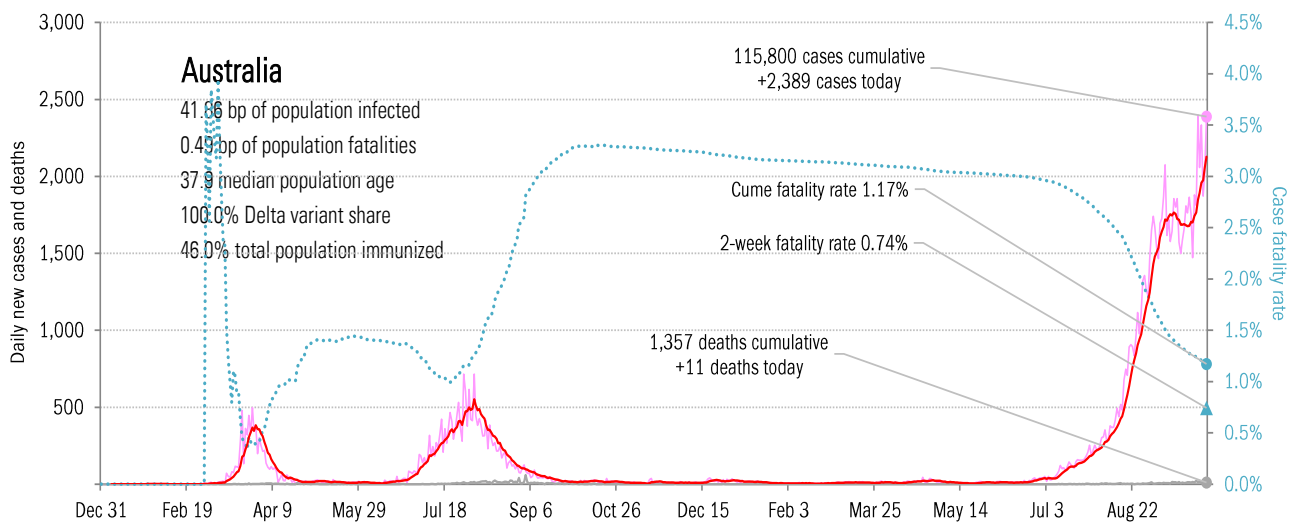
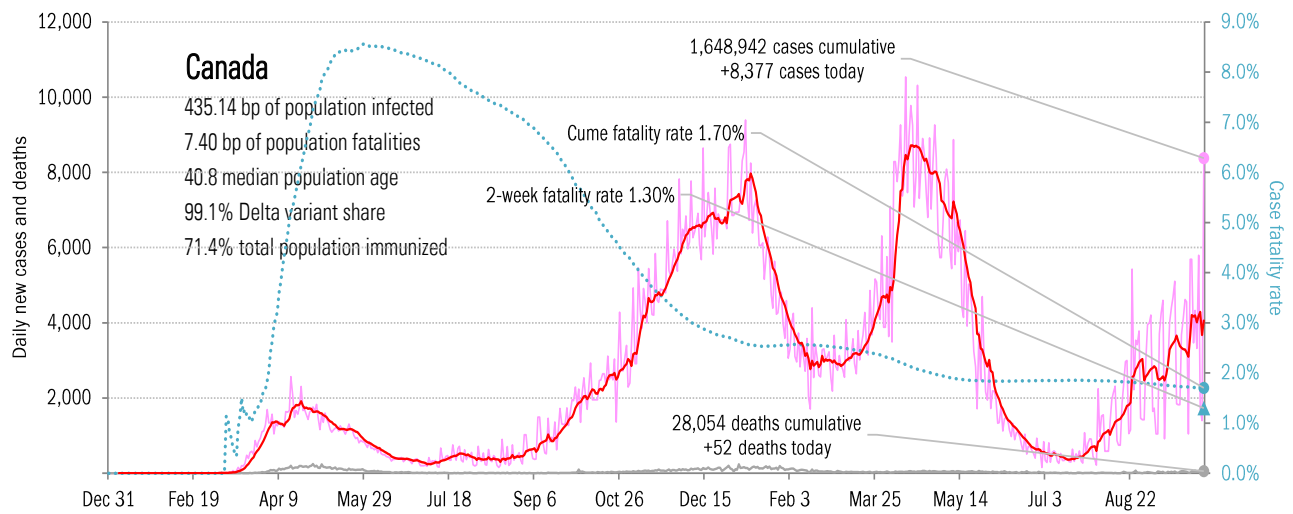
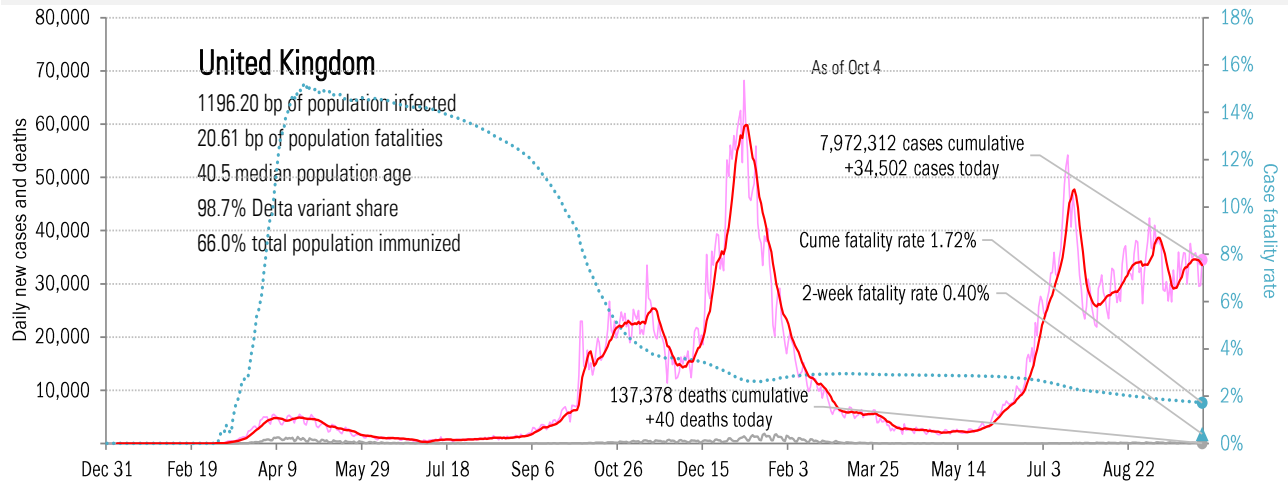
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

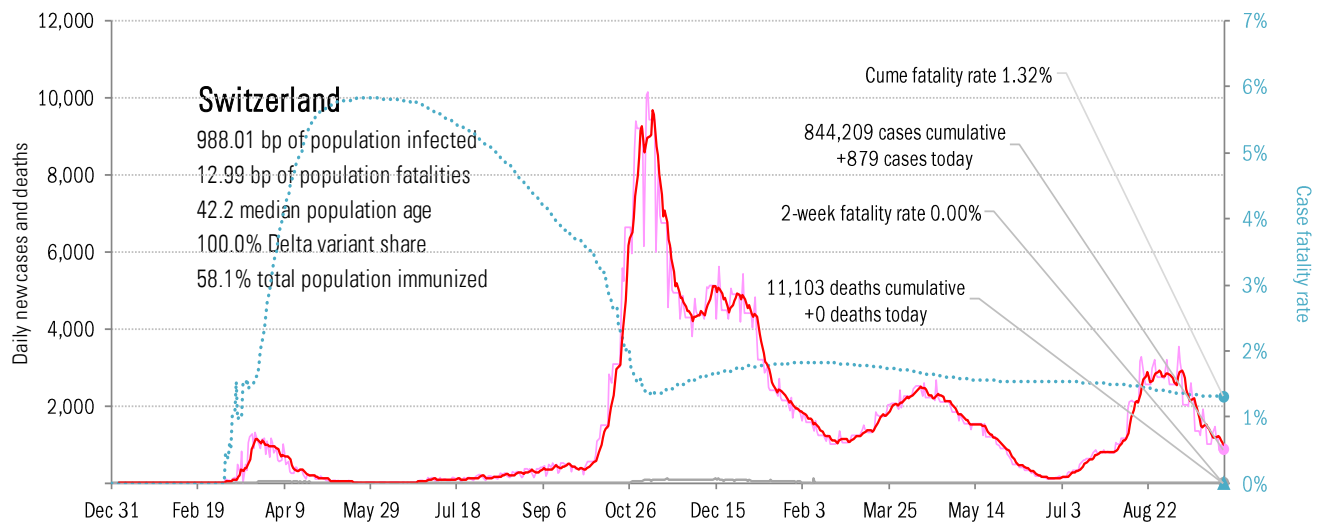
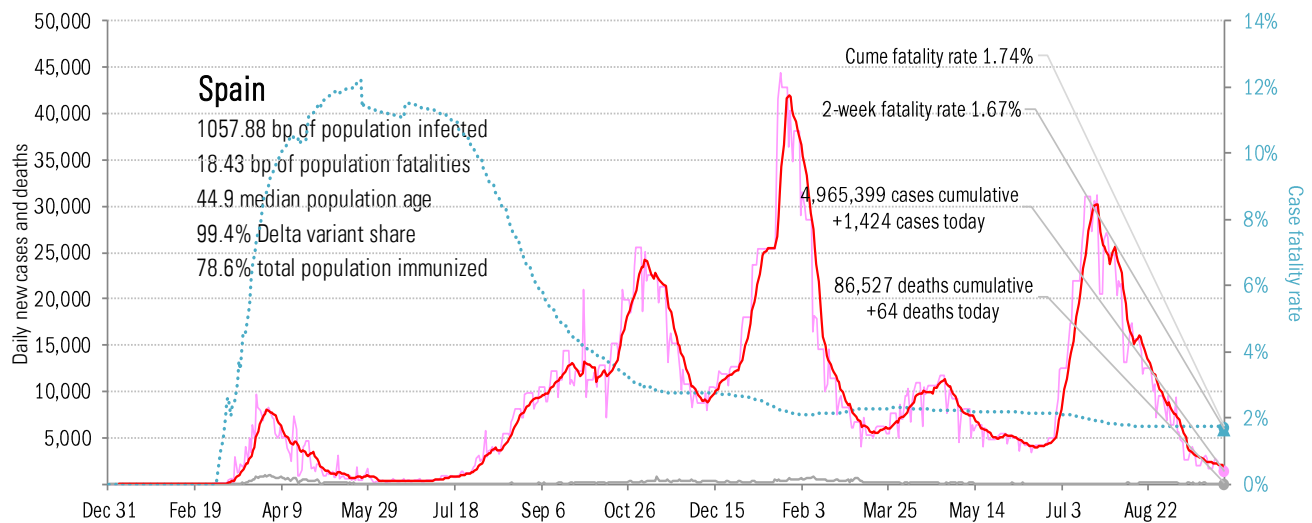
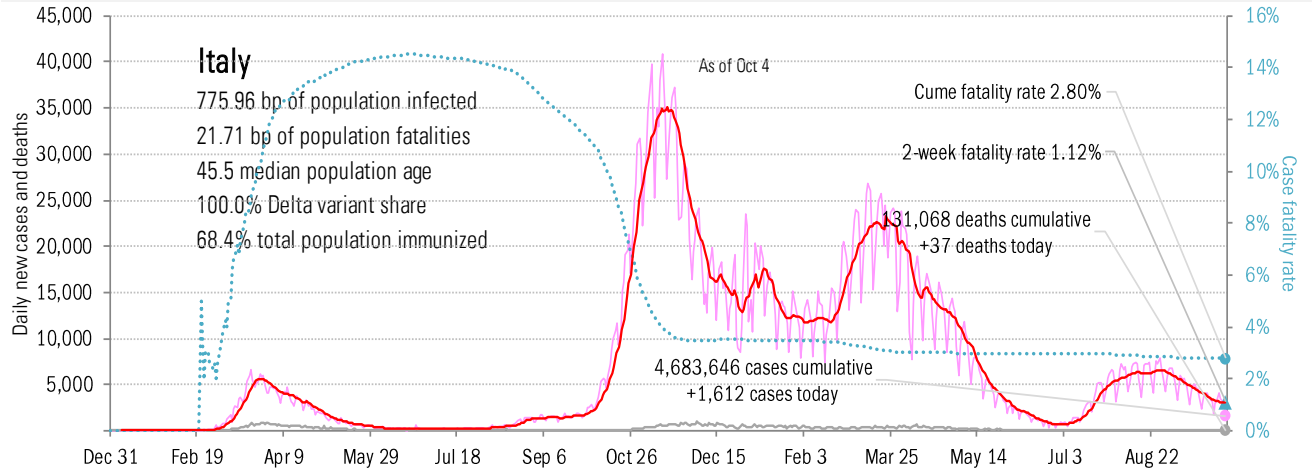
Cases: 7-day average and daily Deaths: Daily



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

# Impact in continental Europe

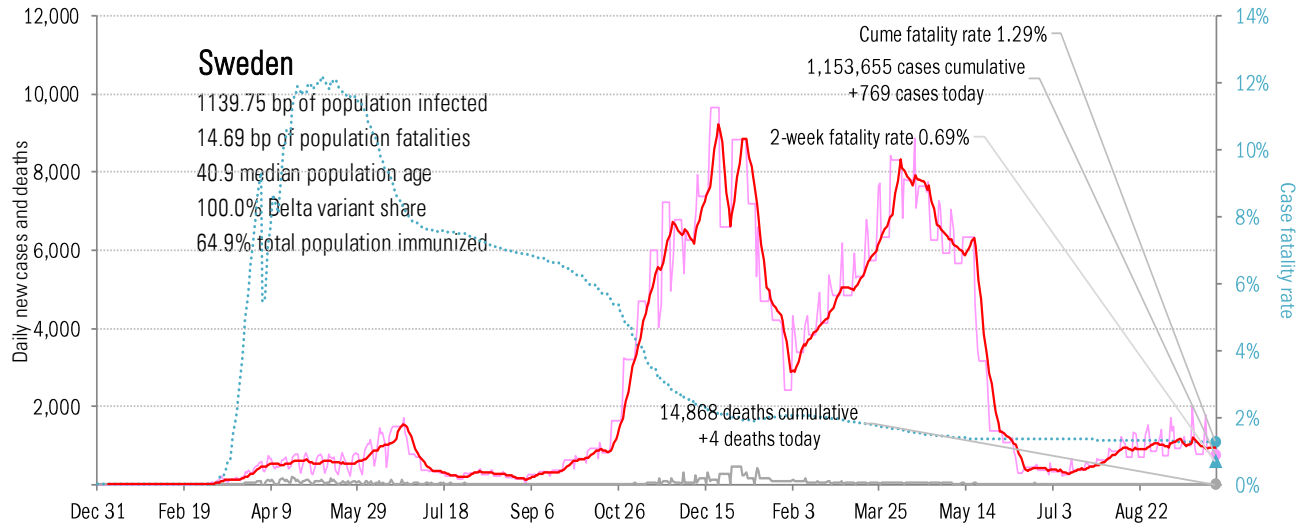
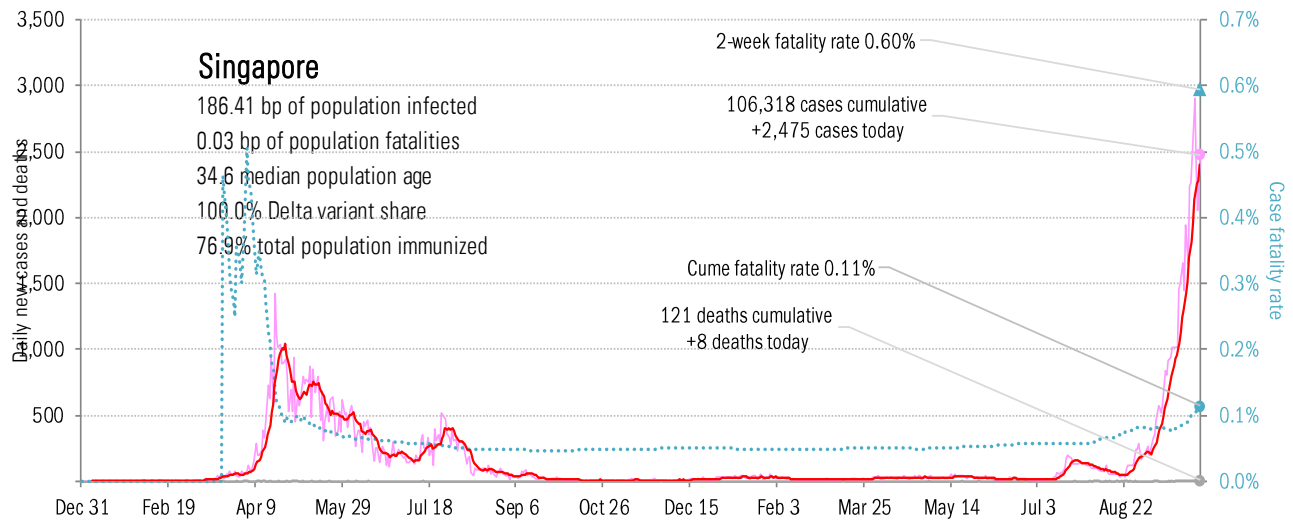
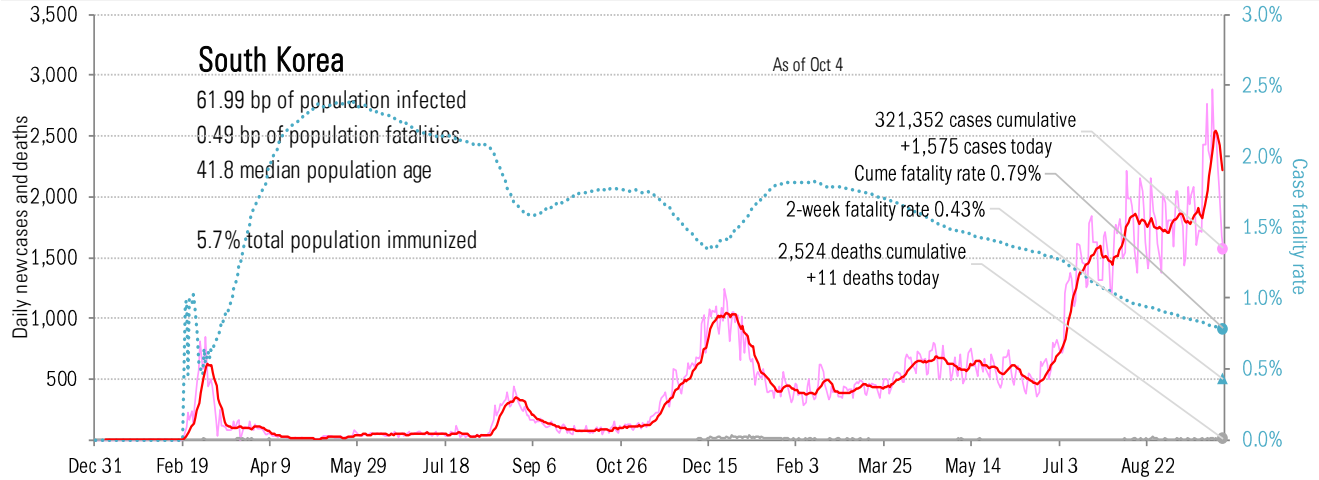
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

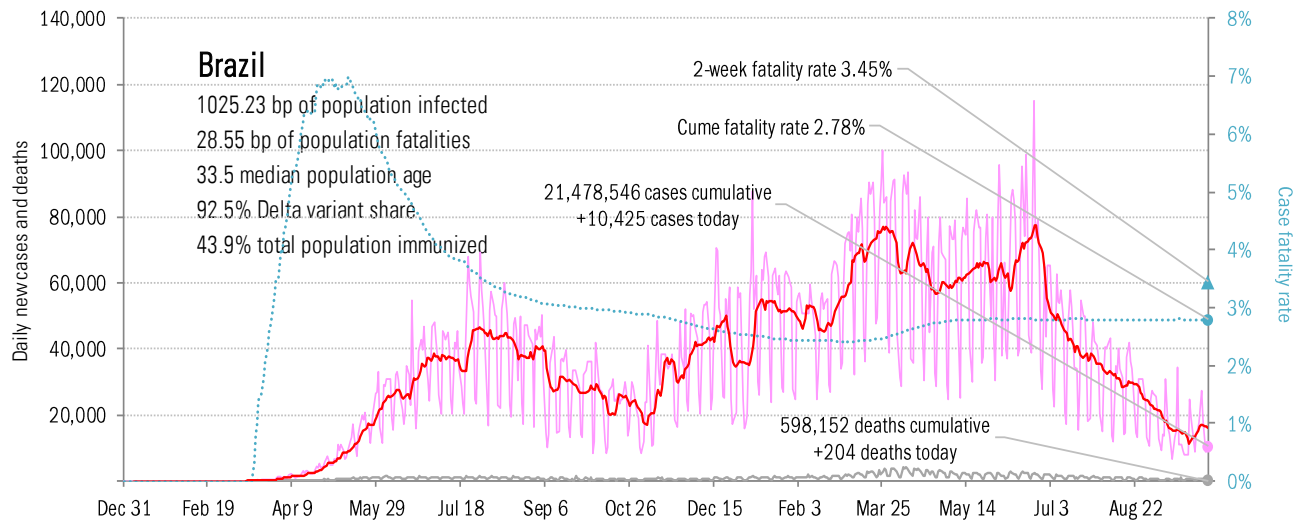
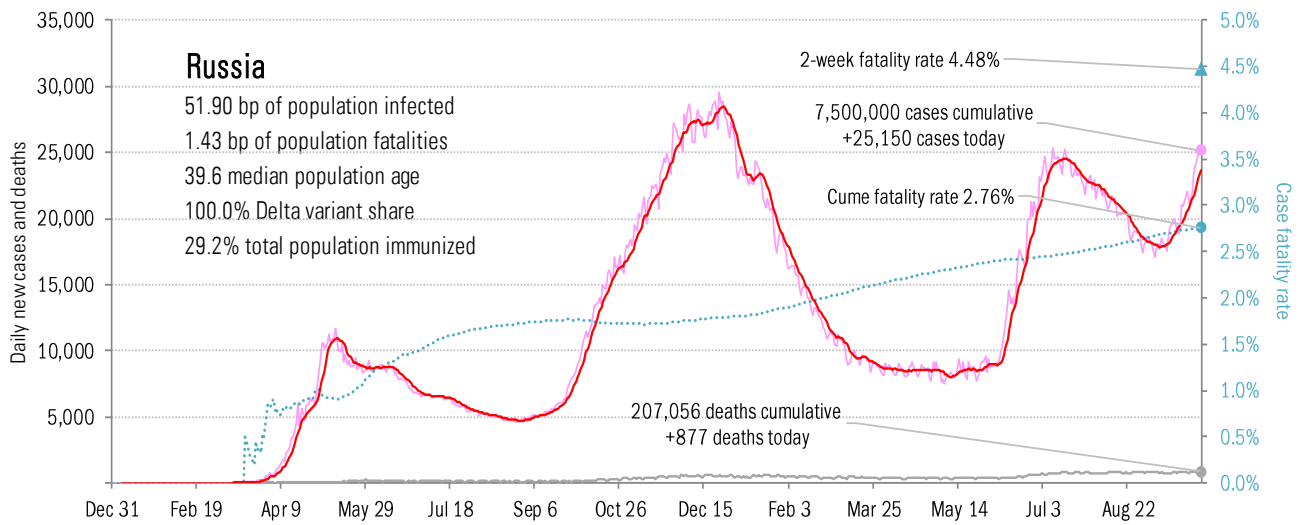
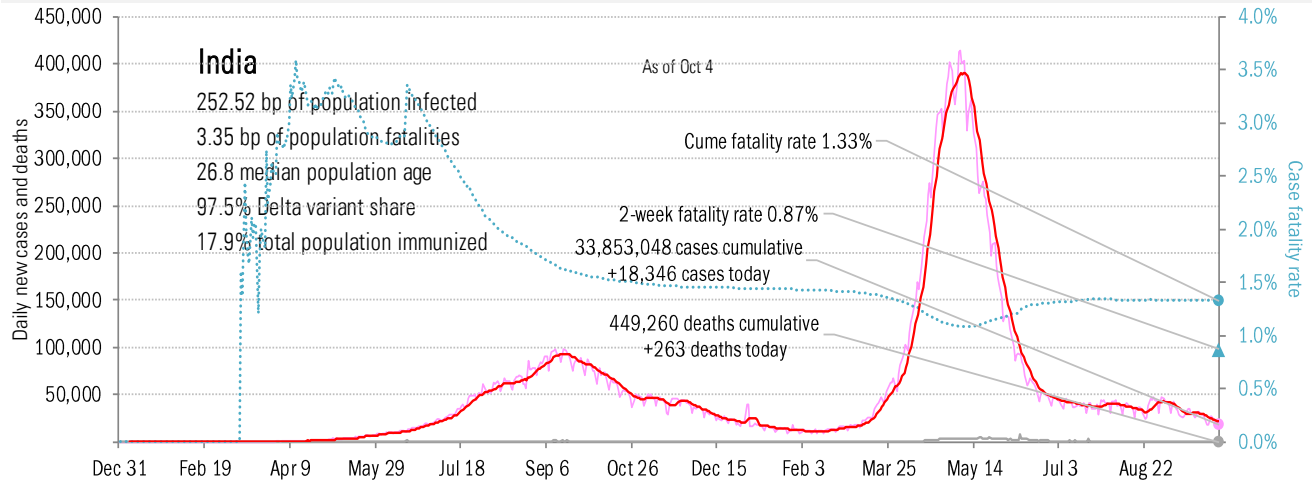
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

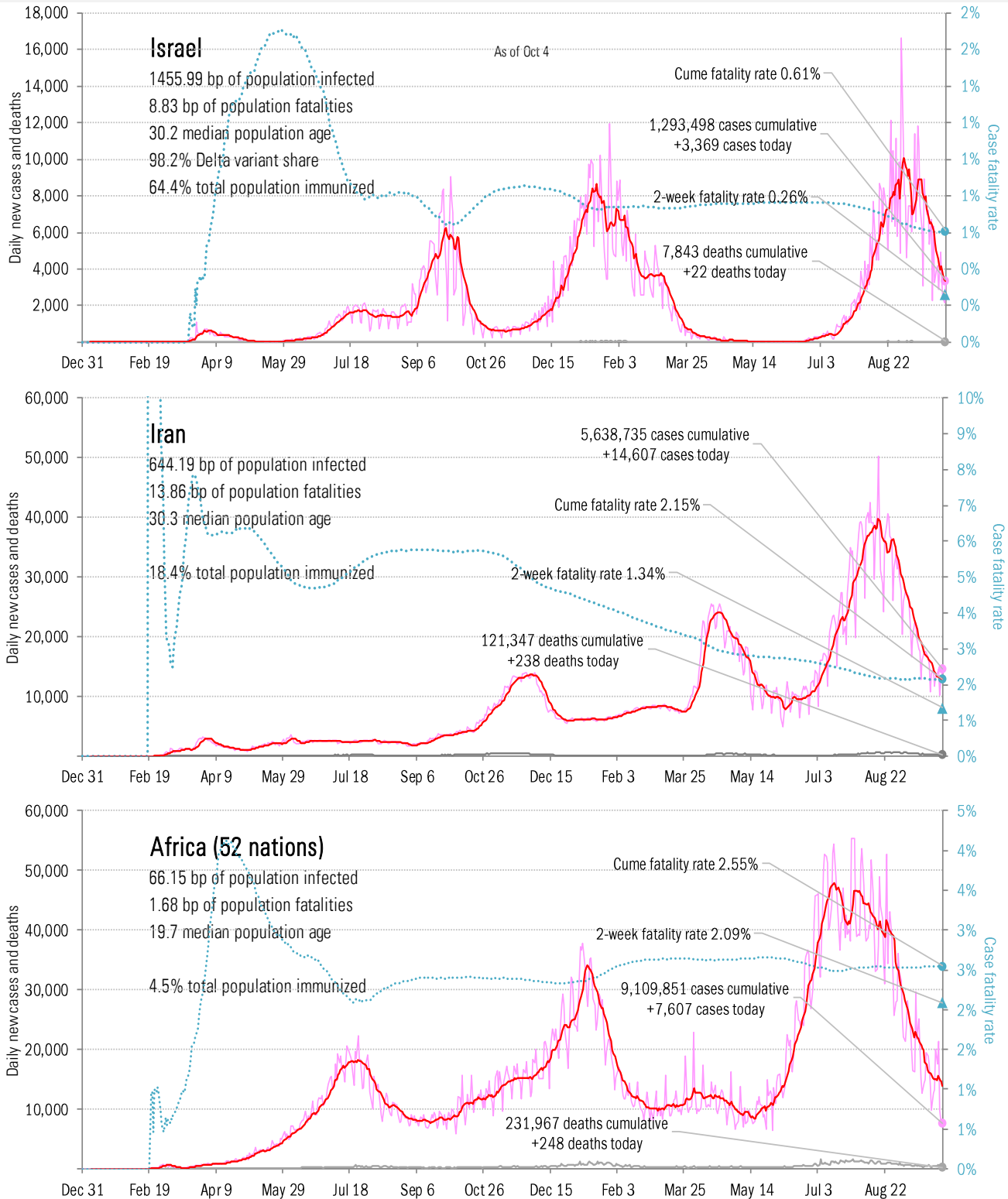
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

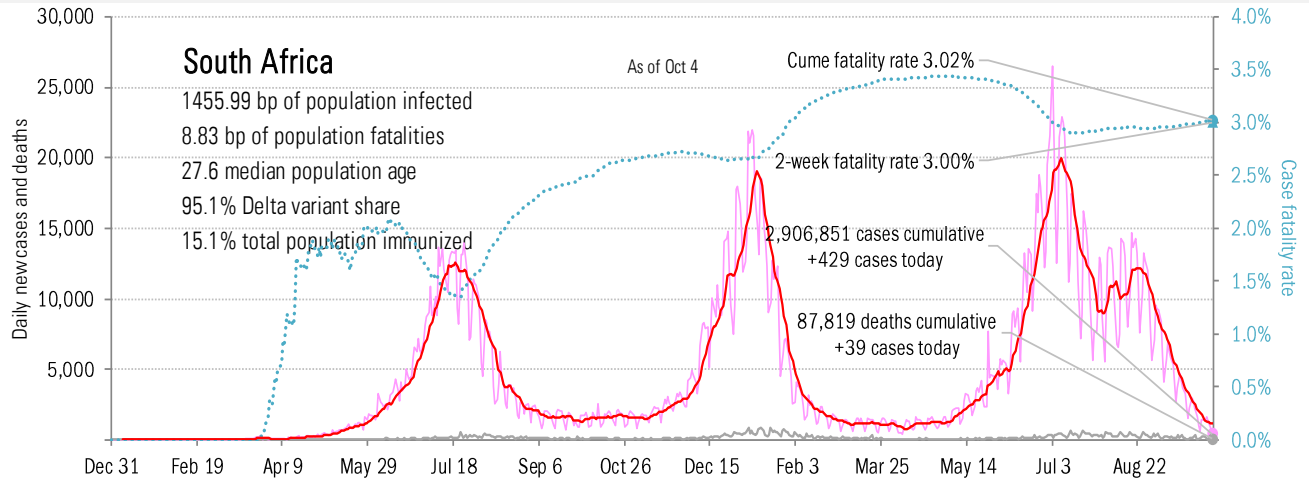
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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