

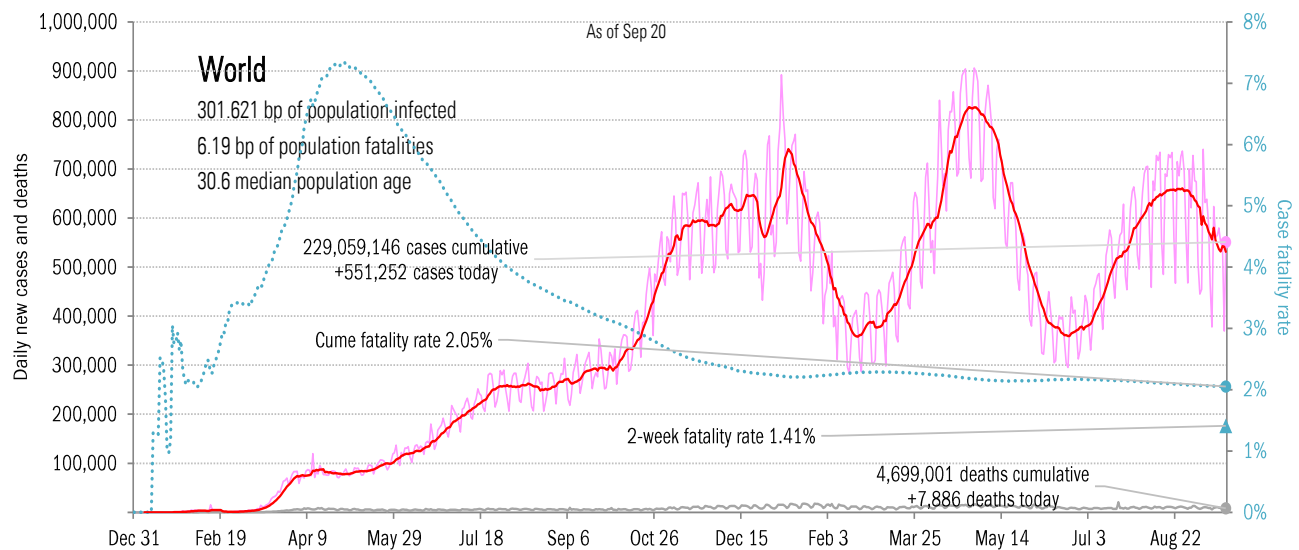
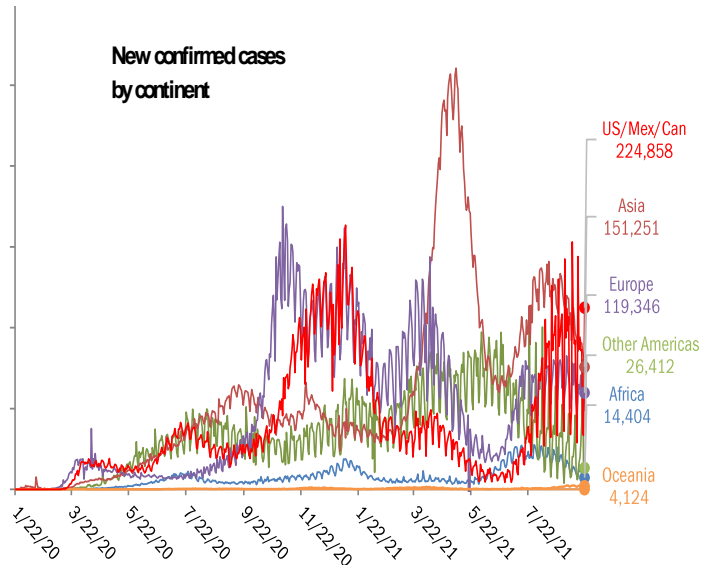
## Data Insights: Covid-2019 Monitor

Tuesday, September 21, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+212,505	United States	+2,034
United Kingdom	+35,943	Russia	+767
Turkey	+27,688	Kazakhstan	+472
India	+26,115	Iran	+344
Russia	+19,376	Malaysia	+301
Philippines	+18,867	Mexico	+262
Iran	+17,397	India	+252
Malaysia	+14,345	Turkey	+231
Thailand	+12,709	Vietnam	+215
Canada	+8,986	Brazil	+203
<b>+393,931</b>		<b>+5,081</b>	
World	+551,252	World	+7,886
Top ten	71%	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

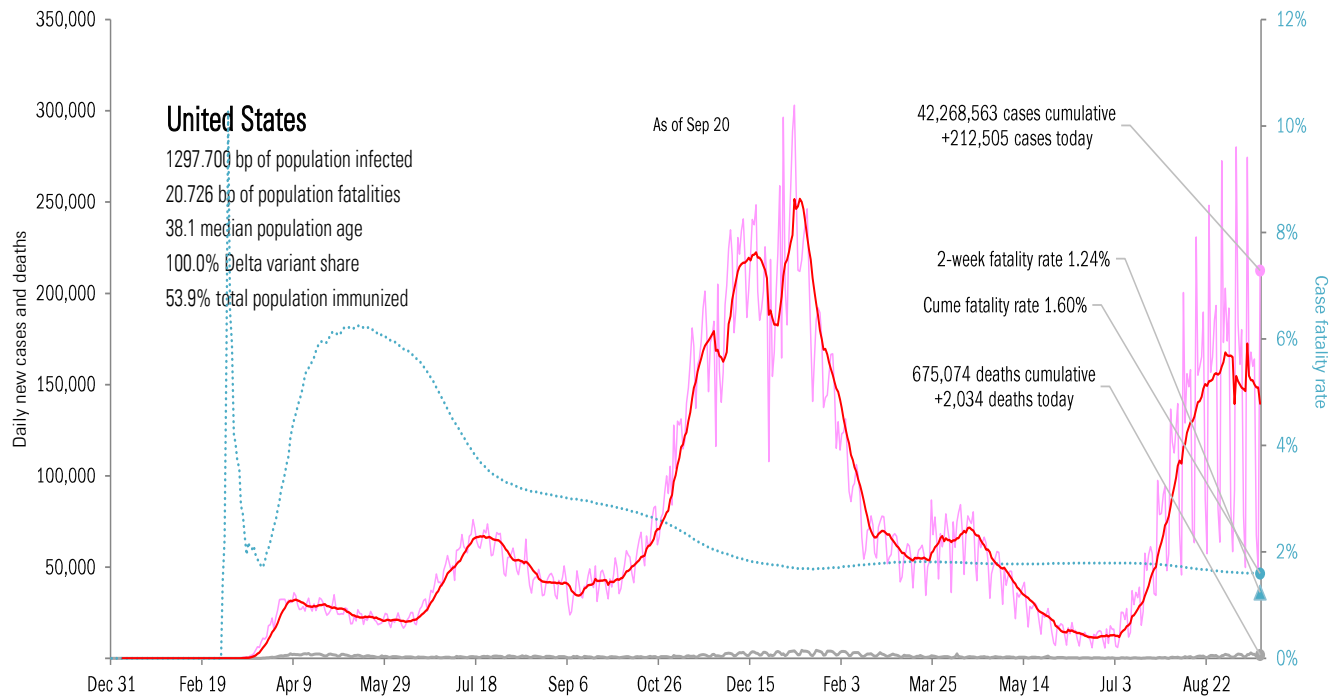
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use		
NC	+15,824		FL	+376		GA	+77		CA	4,644,566		CA	68,019		TX	348,759		MD	86%	AL	95%	
TX	+14,424		GA	+195		VA	+39		TX	3,949,052		TX	62,071		FL	301,386		RI	86%	GA	94%	
TN	+12,521		NC	+161		WV	+39		FL	3,507,442		NY	54,927		CA	292,730		GA	85%	TX	92%	
GA	+11,353		TX	+111		NV	+24		NY	2,377,102		FL	50,882		NY	152,926		SC	84%	KY	91%	
SC	+11,056		TN	+109		CO	+20		IL	1,598,757		PA	28,864		GA	147,932		CT	83%	ID	90%	
FL	+10,857		SC	+107		MN	+18		GA	1,536,467		NJ	27,202		CH	106,694		MA	82%	AR	89%	
VA	+8,943		IL	+93		UT	+15		PA	1,382,933		IL	27,072		KY	103,878		TX	82%	OK	89%	
KY	+8,540		KY	+88		WI	+12		CH	1,352,104		GA	24,772		PA	103,448		PA	82%	H	88%	
IL	+8,415		IN	+74		AR	+10		NC	1,346,316		MI	22,034		IL	97,666		MN	81%	AK	87%	
CA	+8,298		VA	+70		DC	+9		TN	1,190,689		CH	21,471		MI	81,348		FL	81%	FL	87%	
+110,231			+1,384			+263			22,885,428			387,314			1,736,767							
All states	+212,505		+2,034			-1030			All states	42,268,563		675,074			3,080,025			All states	70%		67%	
Top ten	52%		68%			-26%			Top ten	54%		57%			56%			Median	74%		79%	

Some states not reporting

## Five most improved US states

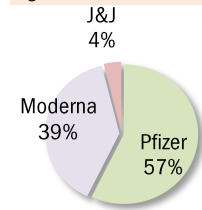
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NY	-3,775	CA	-33	KY	-339	FR	+50 bp
PA	-592	AZ	-26	CH	-148	FL	+30 bp
AZ	-437	NY	-16	NY	-87	CT	+20 bp
MO	-344	H	-12	PA	-66	IA	+20 bp
AR	-343	PA	-10	MA	-44	SC	+20 bp



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	One dose	% Pop	Immune	% pop	New immune today			
	397,106,804				+0.661 million	US	53.9%	63.0%
Total population	217,193,962	65%	186,299,538	56%	+0.347 million	UK	65.1%	71.2%
Age 12 to 17	13,423,854	56%	10,751,818	45%	+0.054 million	France	63.7%	73.6%
Age 18 to 64	150,090,289	74%	127,792,574	63%	+0.307 million	Spain	76.6%	80.0%
Age 65 and over	52,622,833	96%	46,892,061	86%	+0.015 million	Germany	62.6%	66.6%
						Italy	65.6%	73.3%
						Australia	37.4%	58.1%
						Israel	63.6%	69.0%
						Canada	69.3%	75.3%
						Japan	53.3%	65.6%
						Africa	3.8%	6.0%
						India	14.5%	43.2%
						Brazil	37.6%	68.4%
						China	70.0%	75.8%



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



Every American >18 immune in **138 days** by Feb 4, 2022  
 67.6% of population >18 immunized  
 14.4% previously tested positive  
**82.0%** vs 60% adult herd immunity

As of Sep 20

Global data differs from sources, timing

AK
56.6%
49.2%

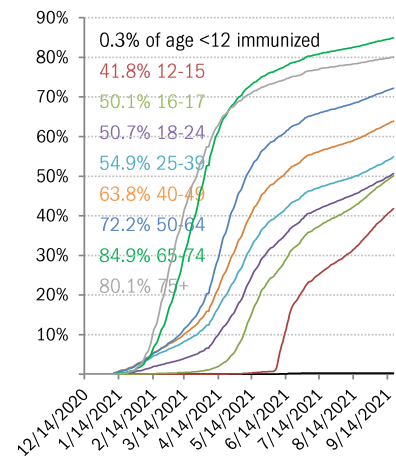
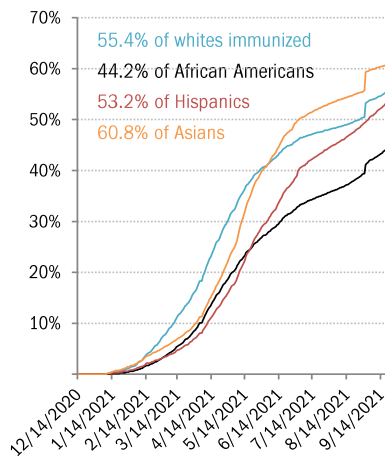
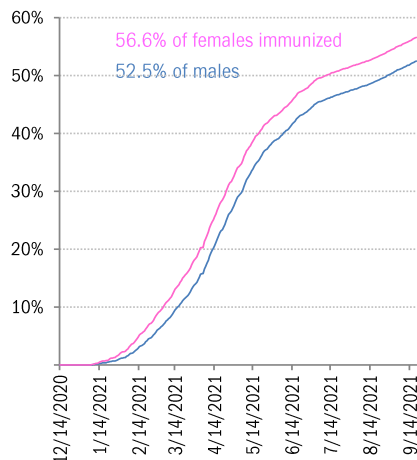
WI
60.4%
55.7%

ME
73.3%
67.5%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
70.4%	46.2%	54.0%	50.3%	63.1%	67.7%	56.5%	70.1%	77.2%	68.8%	
62.2%	40.8%	47.7%	43.4%	57.6%	52.8%	51.8%	62.7%	69.0%	61.0%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
66.0%	60.0%	47.5%	58.2%	57.6%	51.7%	53.7%	71.4%	71.9%	76.8%	
60.0%	49.9%	40.6%	50.8%	53.4%	47.8%	49.7%	57.0%	63.5%	67.3%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
70.8%	58.1%	64.9%	58.8%	54.2%	59.6%	47.8%	67.7%	69.9%	75.4%	74.2%
58.0%	49.5%	58.6%	53.8%	47.1%	50.8%	40.2%	59.7%	63.4%	67.9%	67.1%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	58.7%	71.8%	59.1%	55.1%	51.8%	58.4%	54.3%	69.7%	65.5%	
	50.4%	62.2%	50.3%	44.7%	44.1%	48.8%	46.1%	59.2%	56.8%	
			OK	LA	MS	AL	GA			
			55.8%	51.1%	49.3%	51.9%	54.0%			
			46.6%	44.5%	42.1%	41.4%	44.1%			
			TX					FL		PR
			59.2%					66.2%		78.5%
			50.3%					56.1%		69.0%

HI
76.2%
57.0%

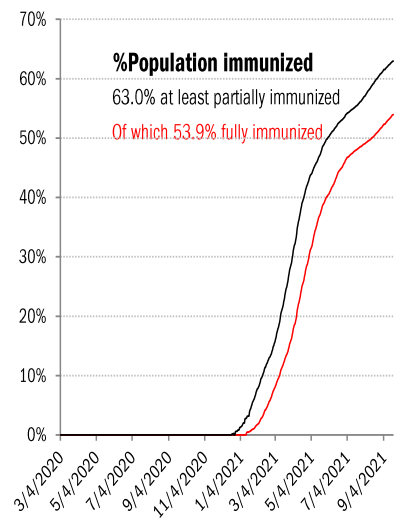
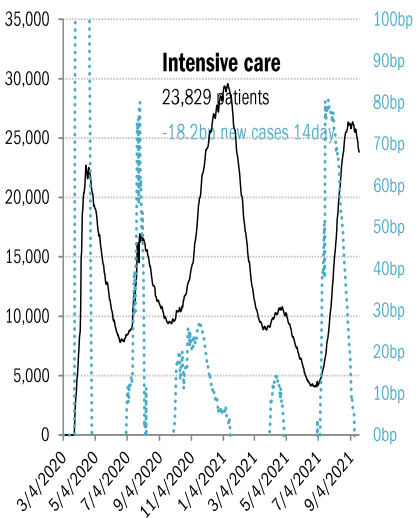
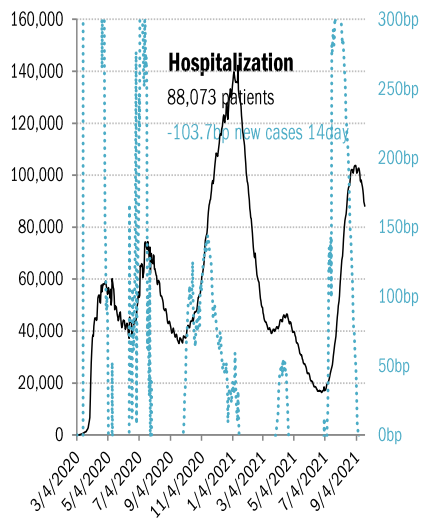
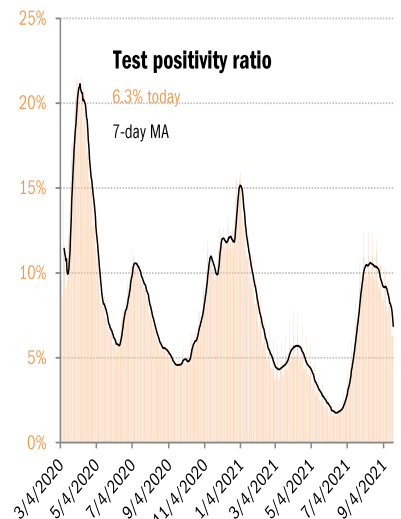
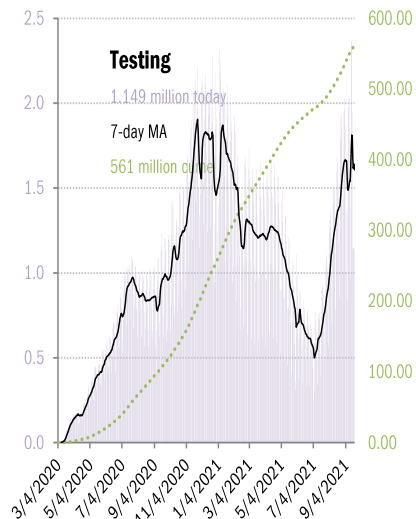
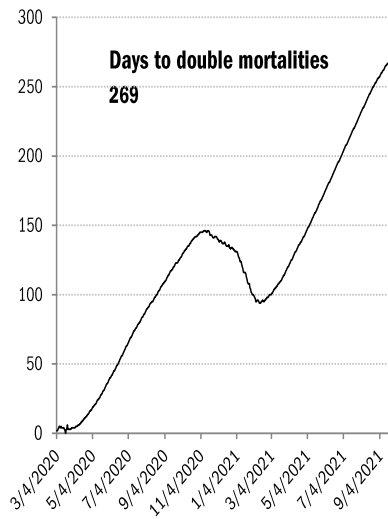
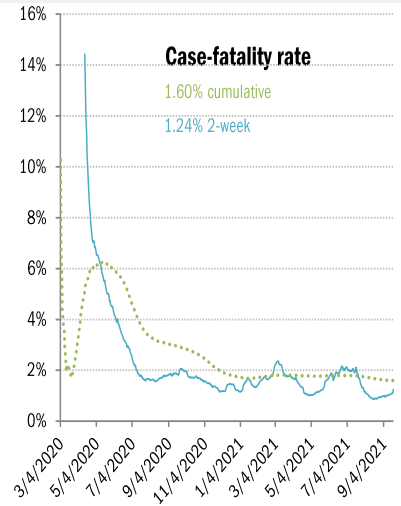
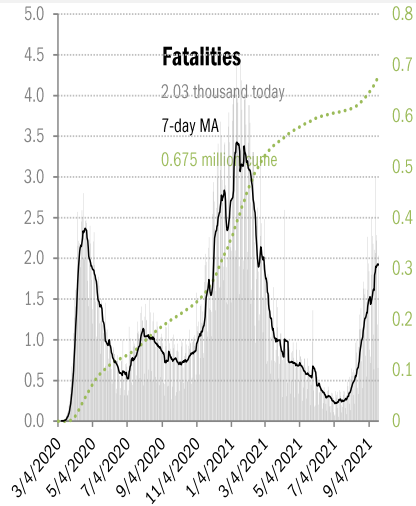
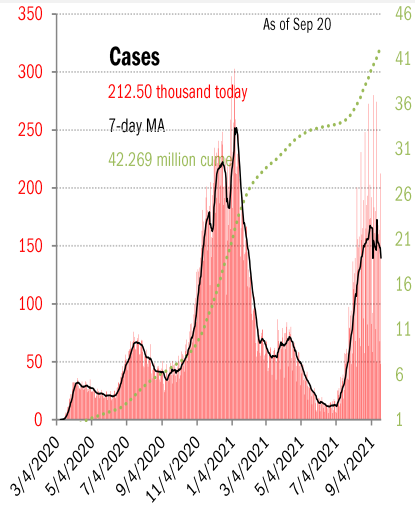
## The demographics of US vaccination



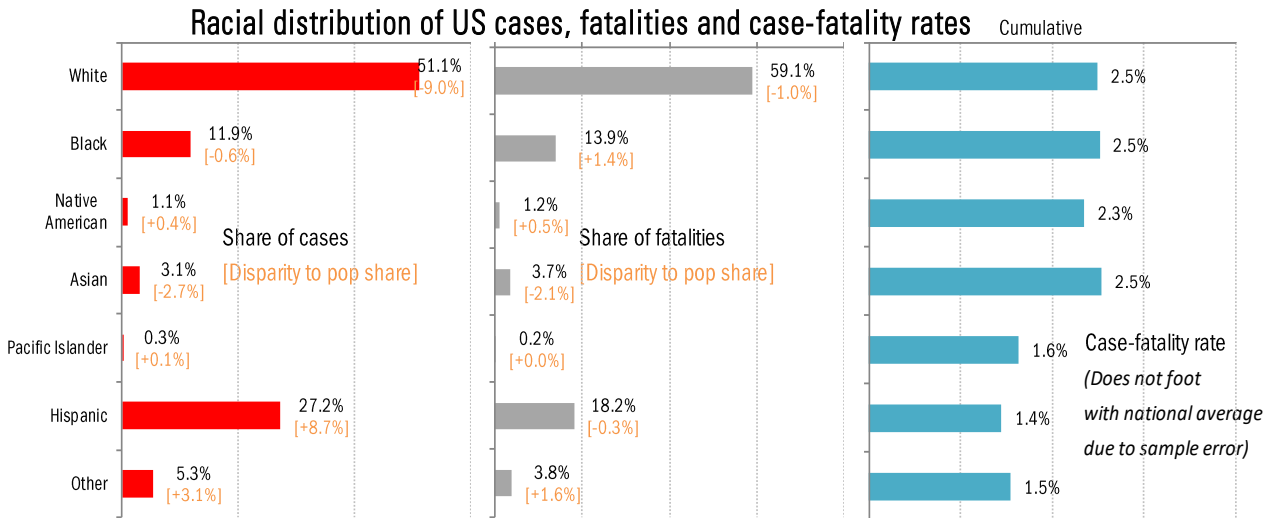
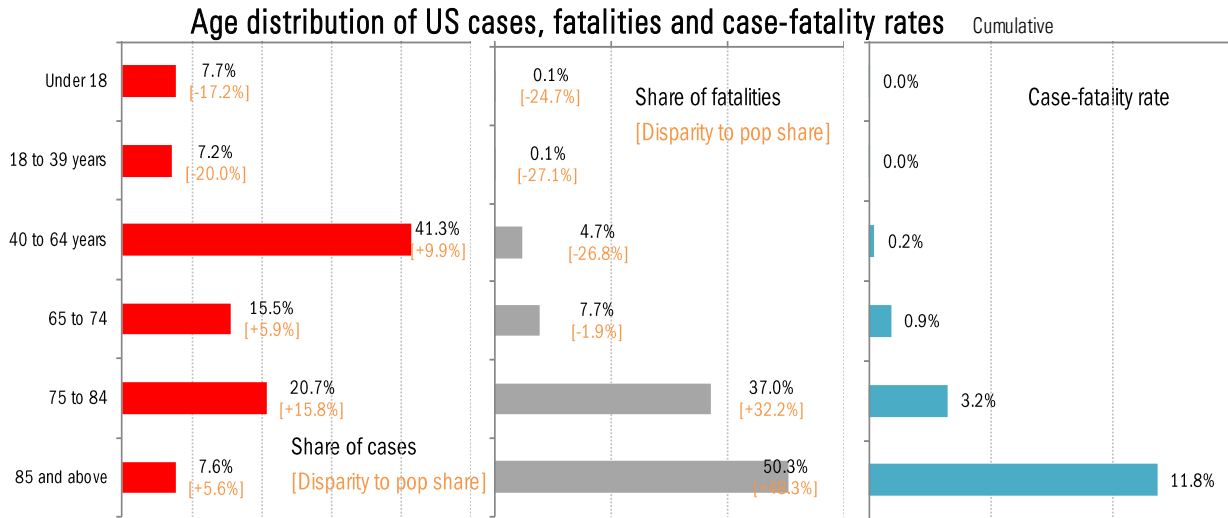
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

# US deep-dive

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

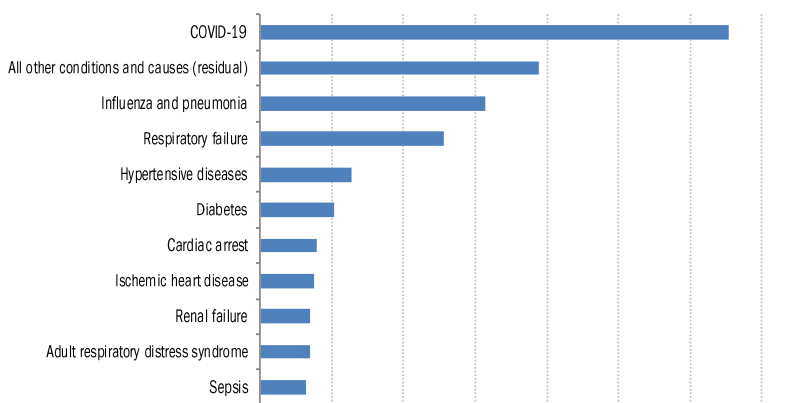


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations



### Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Sep 12

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

### [Covid-19 Made Me More Productive](#)

Bob Brody  
*Wall Street Journal*  
September 20, 2021

### [How to Vaccinate a Siberian Reindeer Herder](#)

Maxim Babenko  
*New York Times*  
September 20, 2021

### [New York City Schools Strategy: Test More, but Keep Classrooms Open](#)

Emma G. Fitzsimmons  
*New York Times*  
September 20, 2021

### [As the Rationale for Total Vaccination Sputters, Censorship Soars](#)

Bret Swanson  
*RealClear Markets*  
September 20, 2021

### [US to relax EU and UK travel restrictions for vaccinated passengers](#)

Kiran Stacey  
*Financial Times*  
September 20, 2021

### [Maskless San Francisco mayor breaks health order, seen partying with BLM co-founder at nightclub](#)

Emma Colton  
*Fox News*  
September 17, 2021

### [MSNBC host Joy Reid admits she was 'hesitant' of COVID vaccine under Trump, pushes it under Biden](#)

Brian Flood  
*Fox News*  
September 18, 2021

### ['The numbers are skewed': Colorado officials warn of inflated COVID death statistics](#)

*Just the News*  
September 18, 2021

### [Dr. Fauci Funded 60 Projects at the Wuhan Institute of Virology and All Were in Conjunction with the Chinese Military](#)

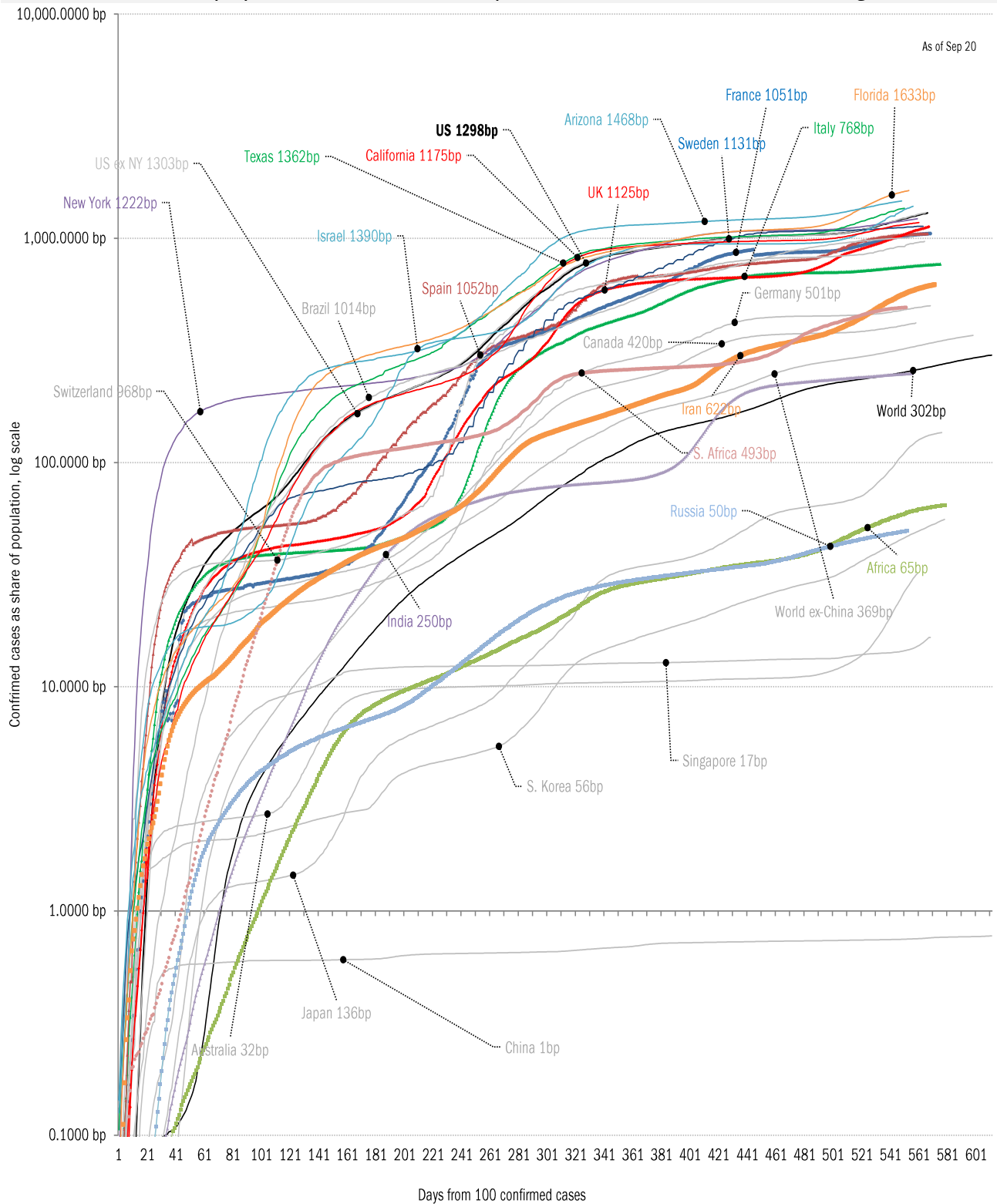
Joe Hoft  
*Gateway Pundit*  
September 19, 2021

## Meme of the day



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

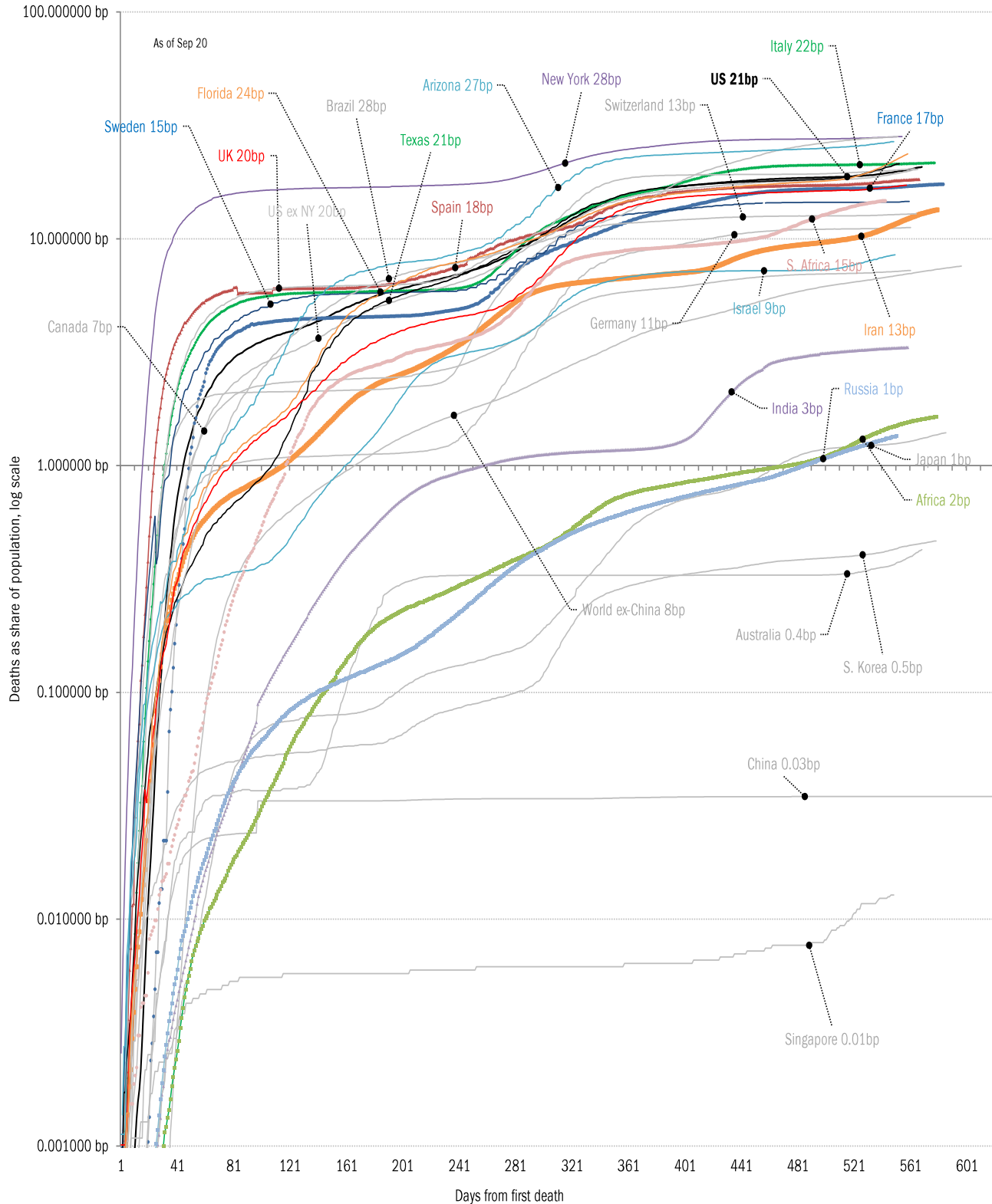
The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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*



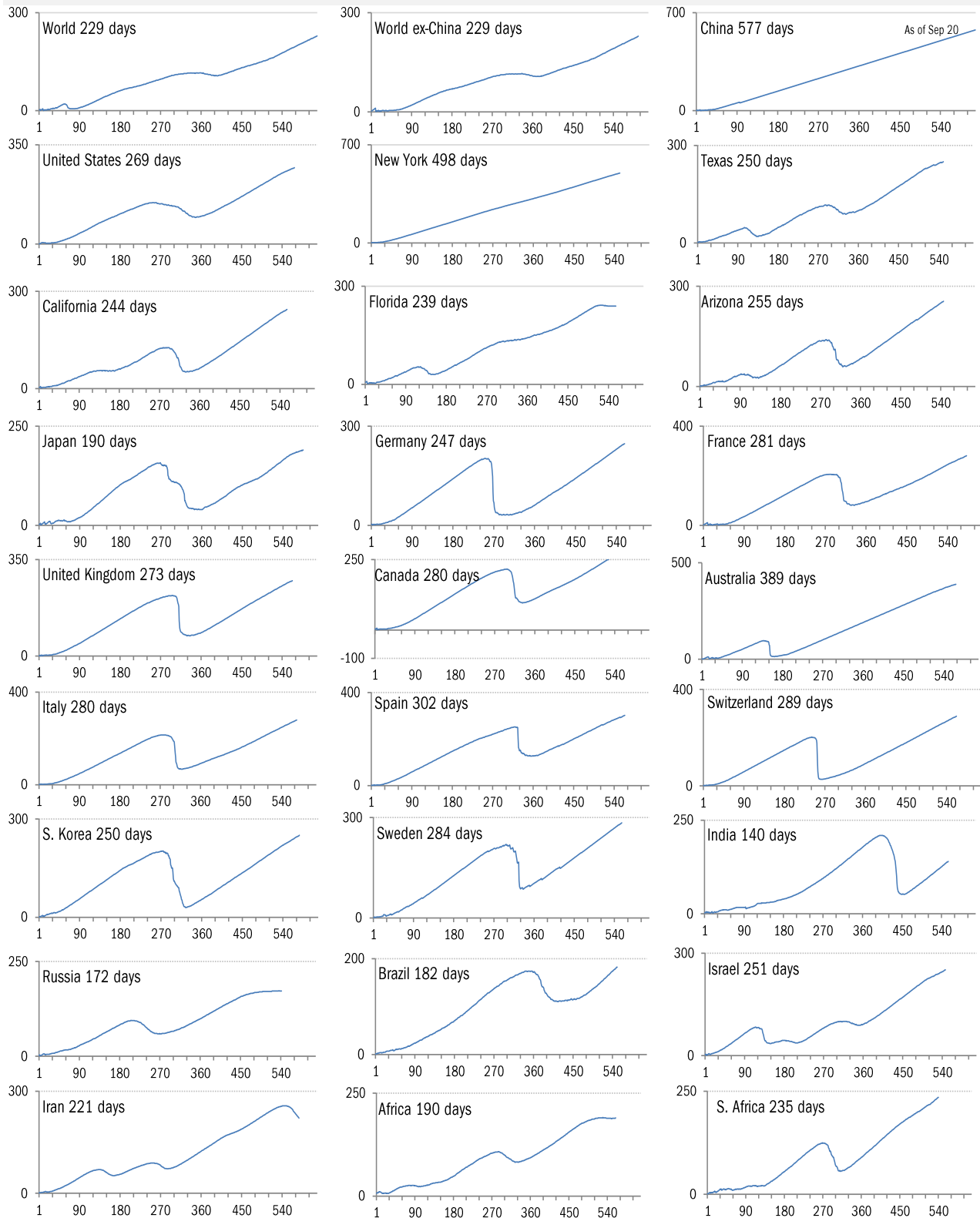
Source: [Johns Hopkins](#), TrendMacro calculations



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

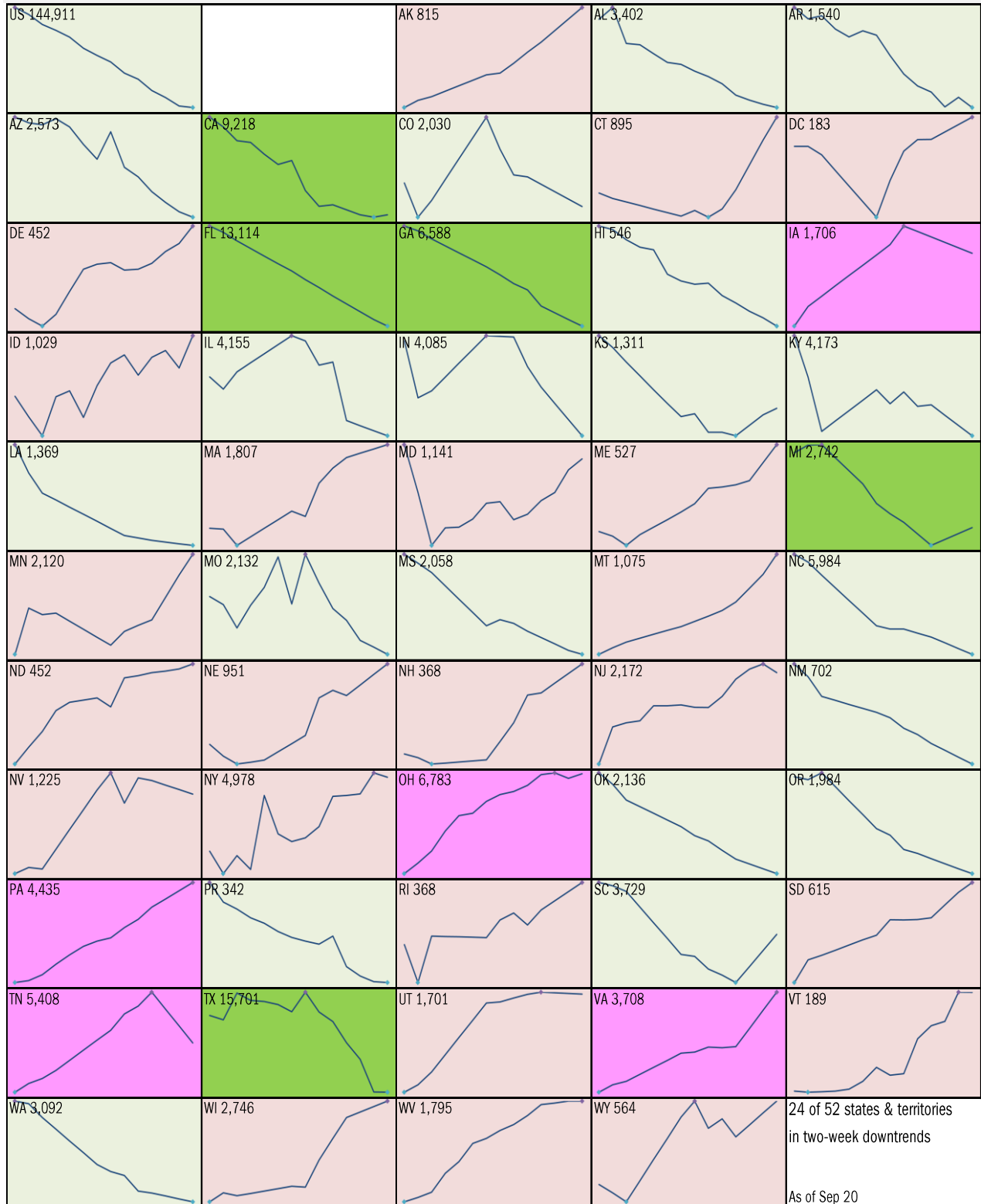


Source: [Johns Hopkins](#), TrendMacro calculations

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

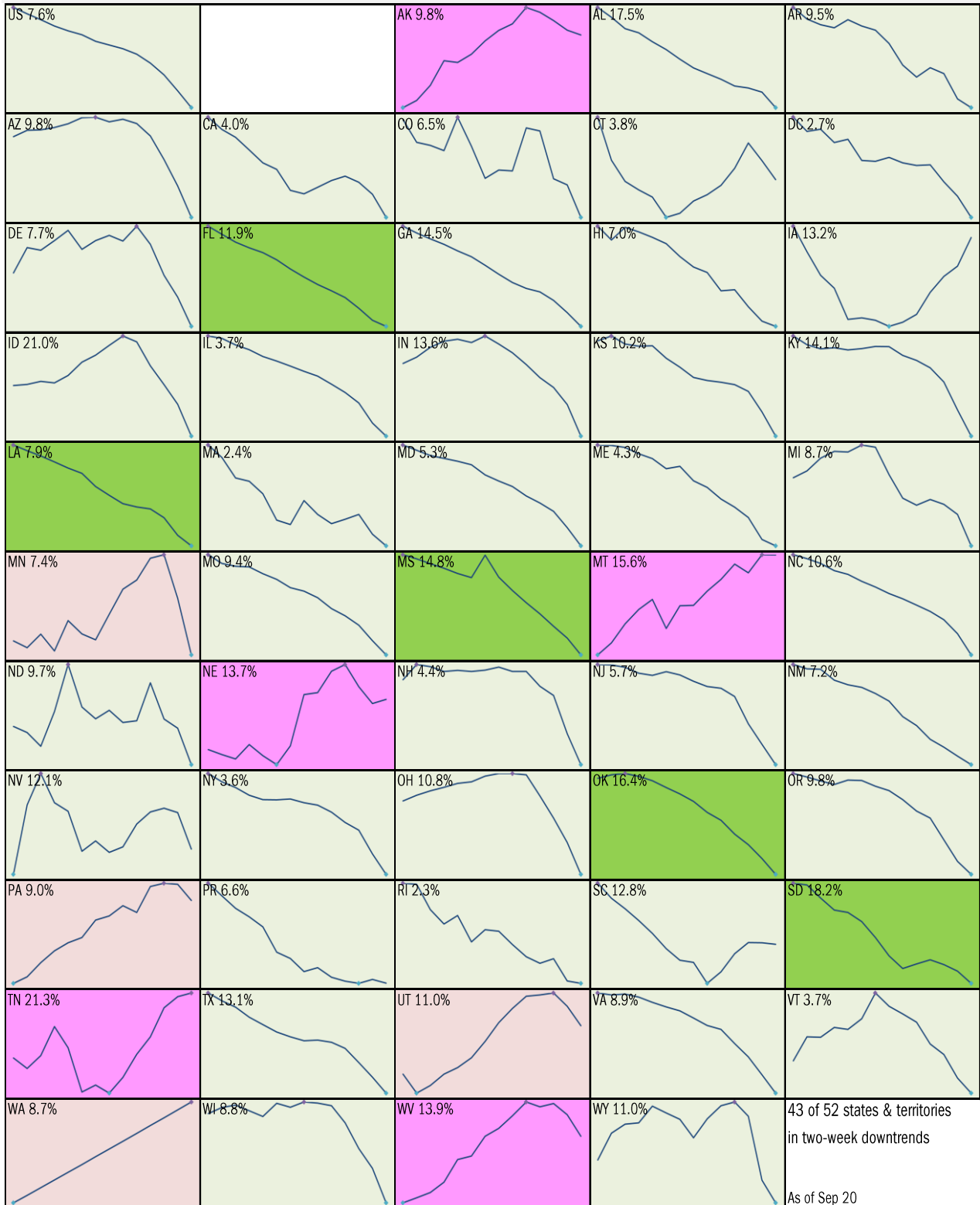


Source: [Johns Hopkins](#), TrendMacro calculations

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

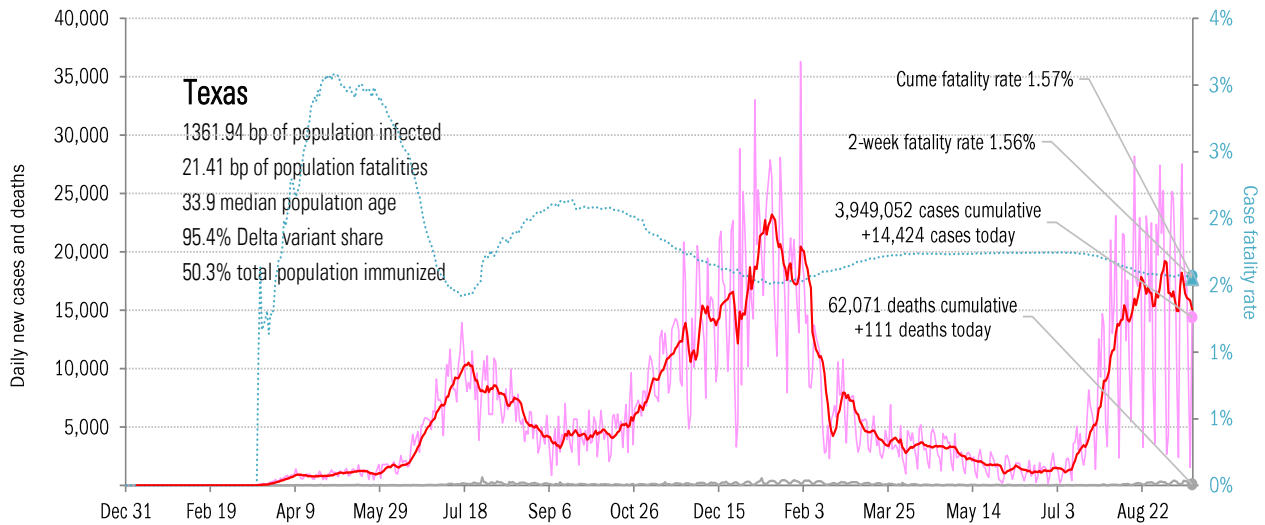
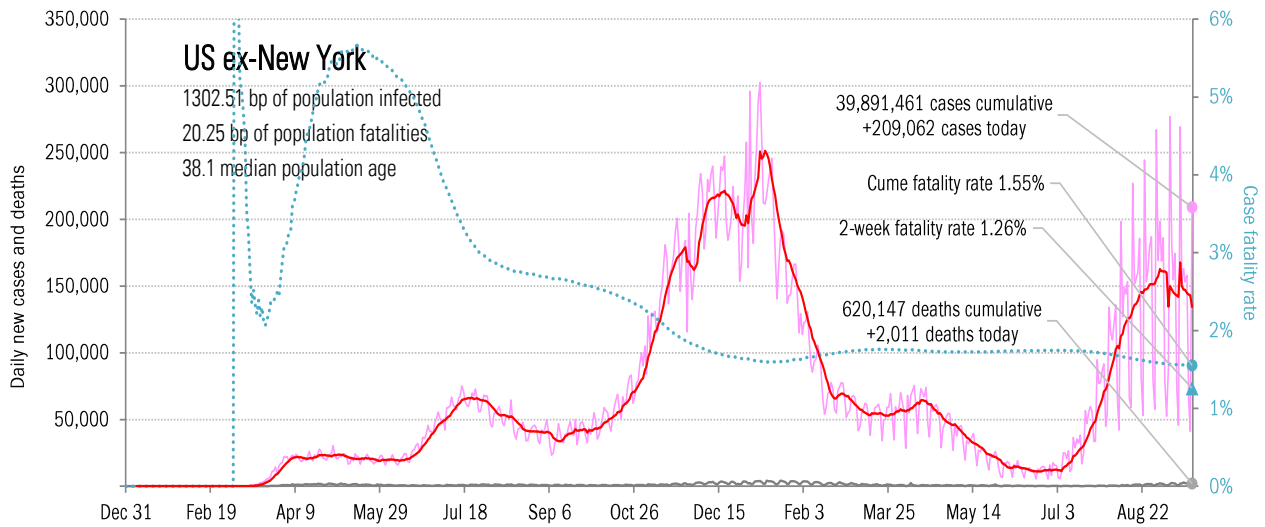
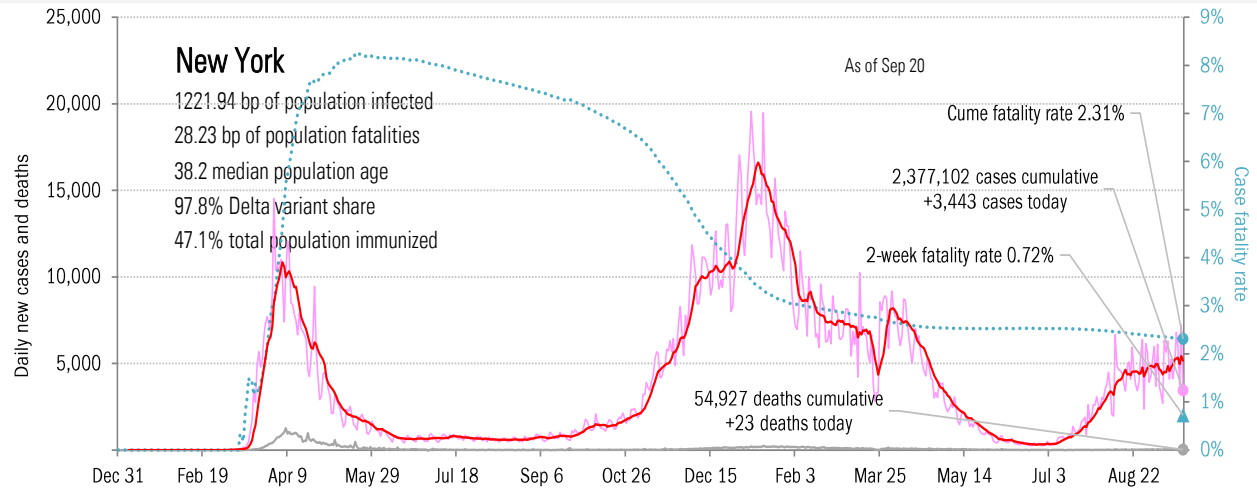
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

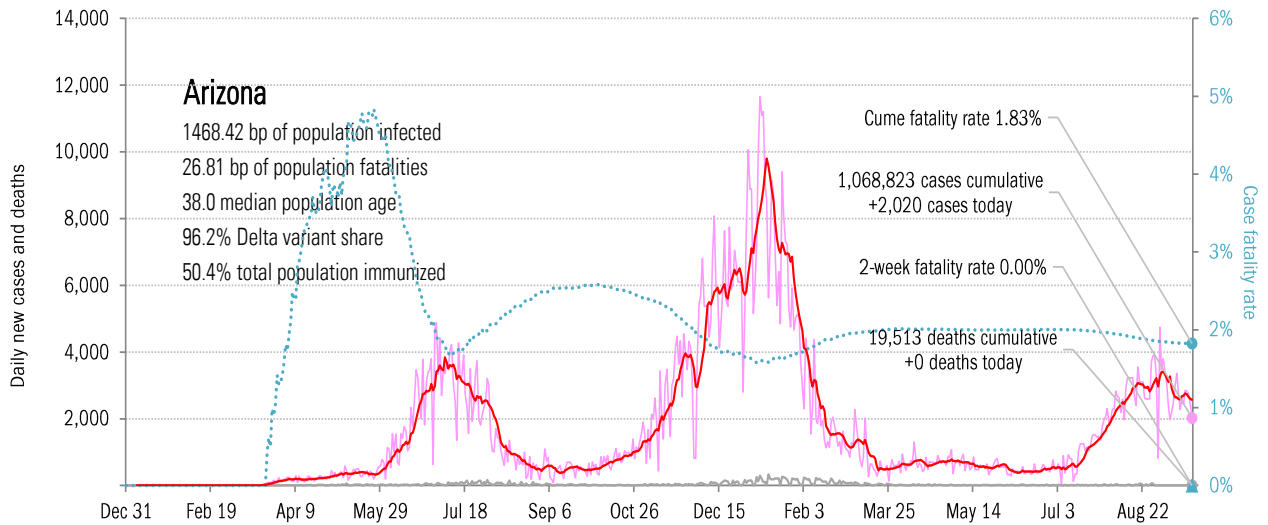
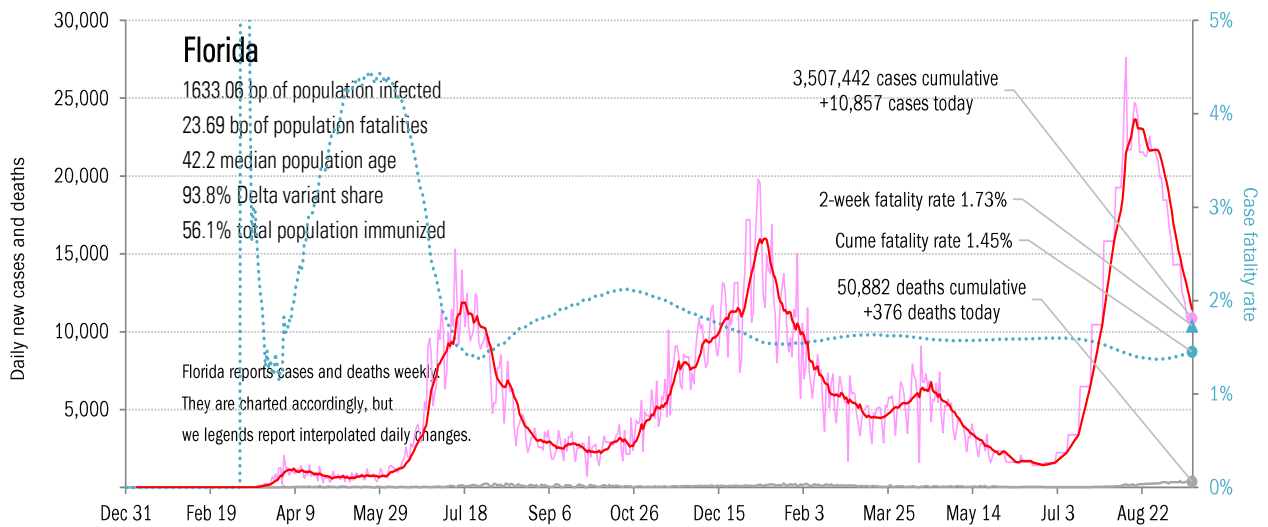
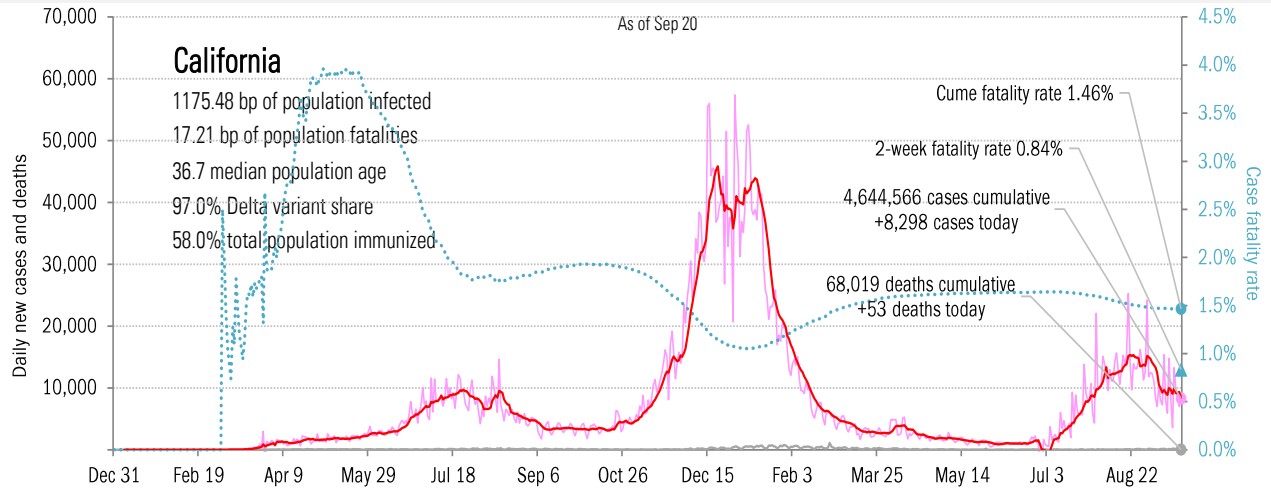
Cases: 7-day average and daily Deaths: Daily



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

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

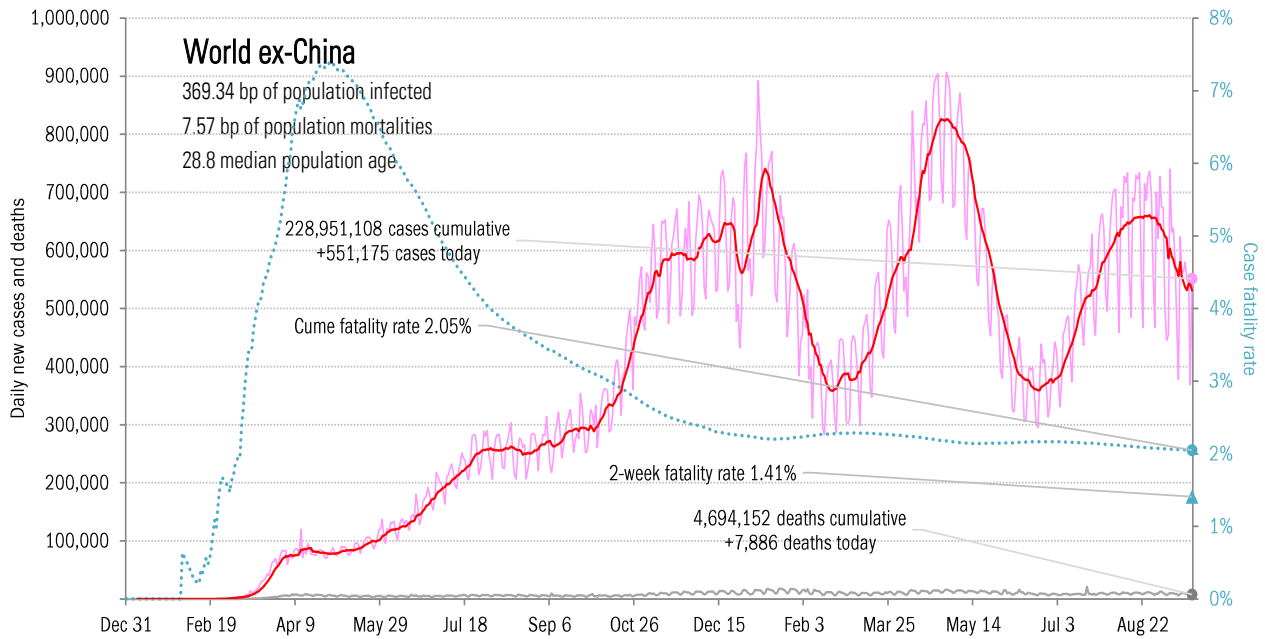
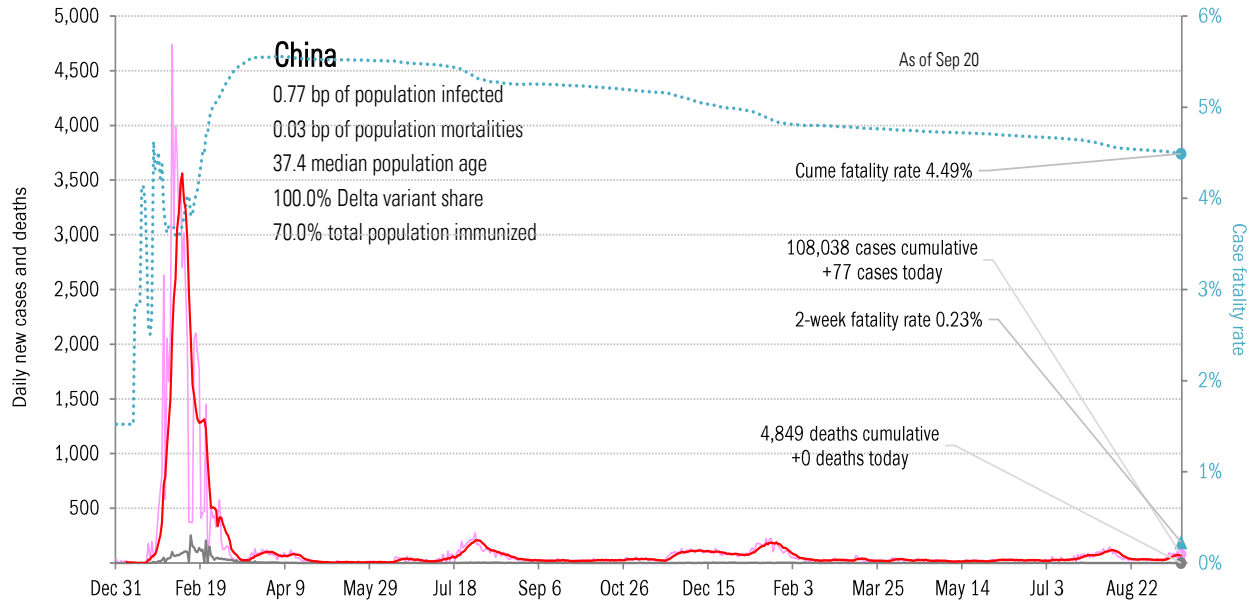
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

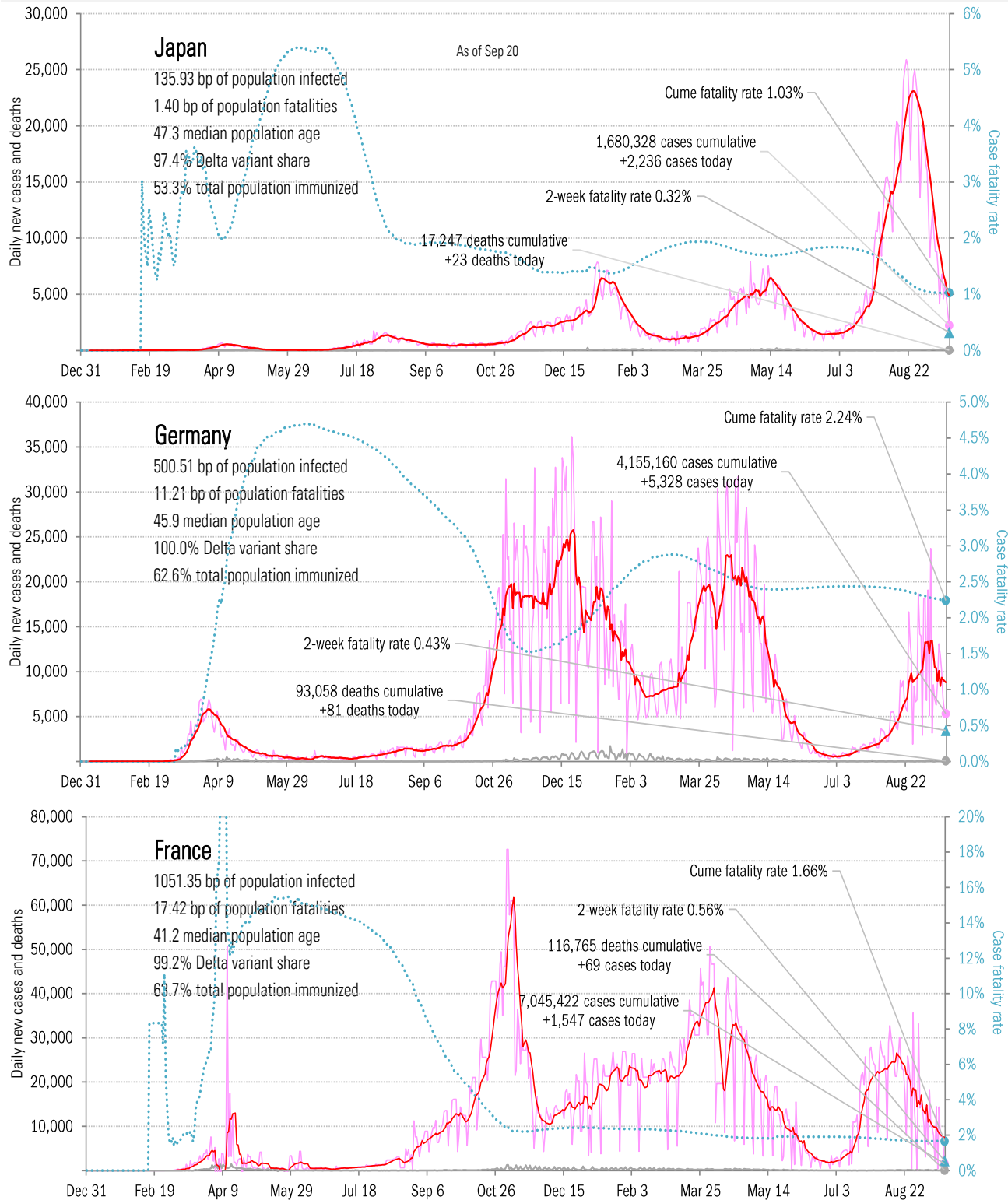
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

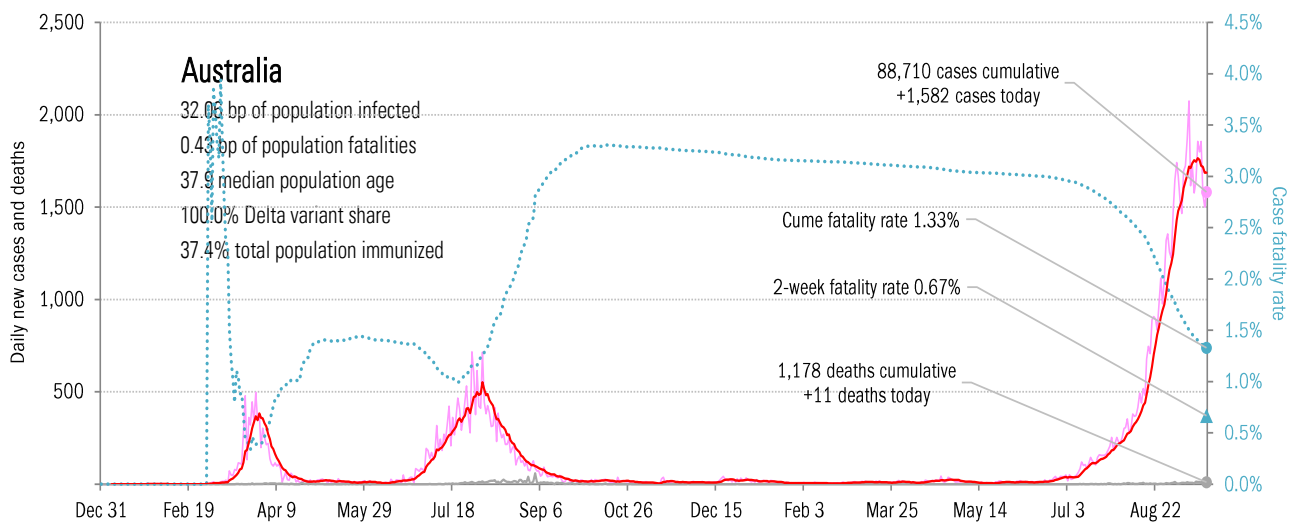
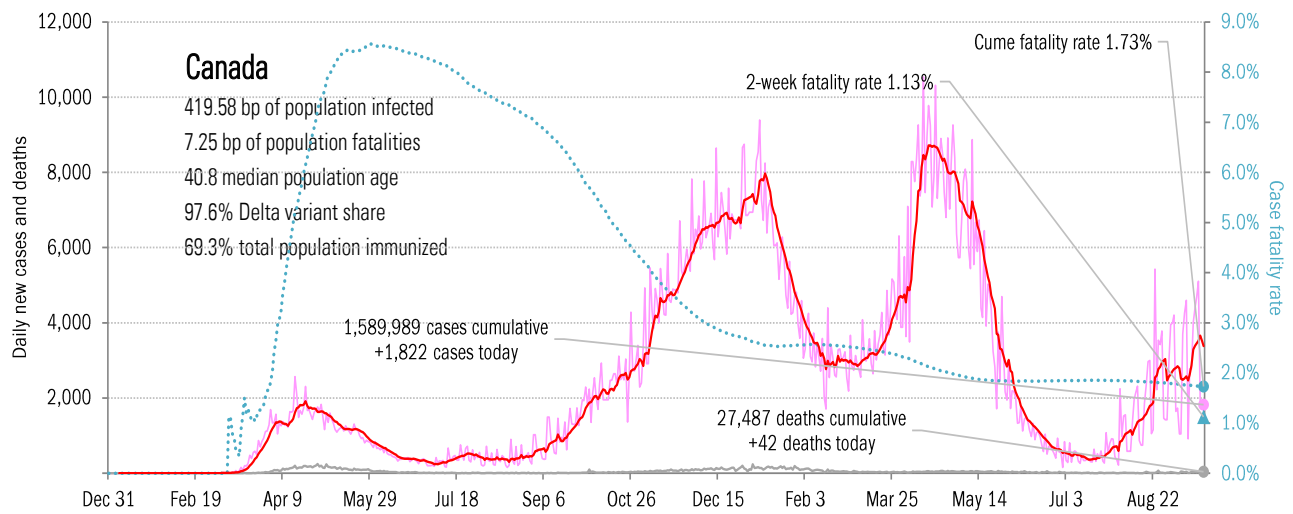
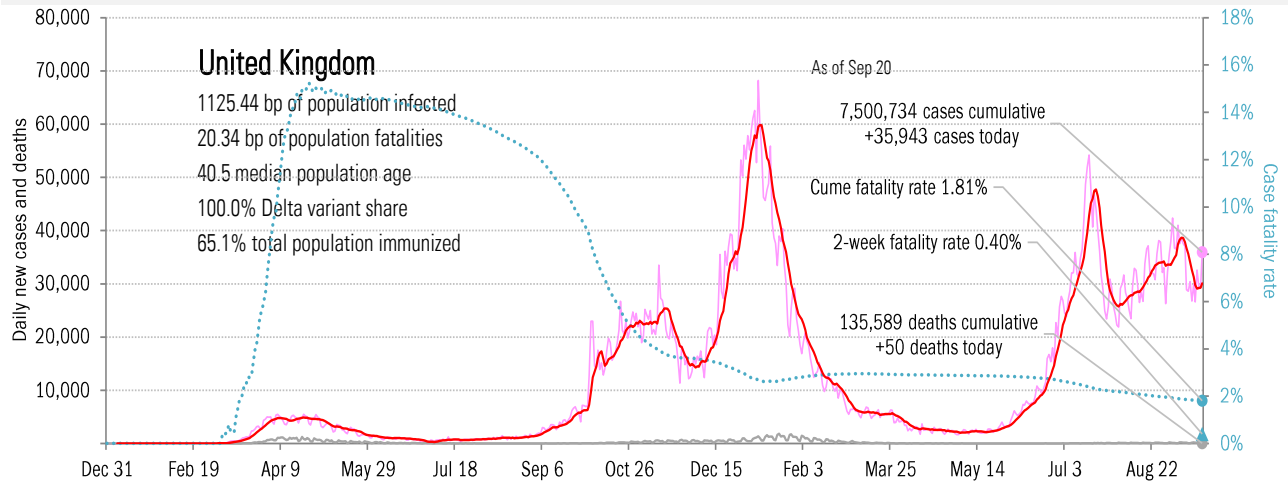
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

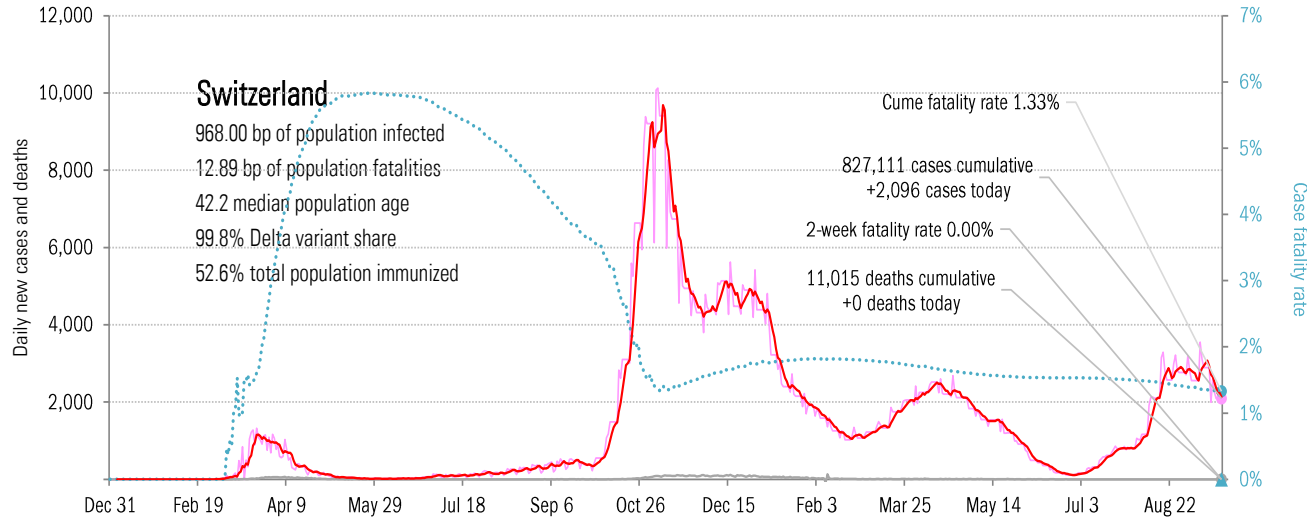
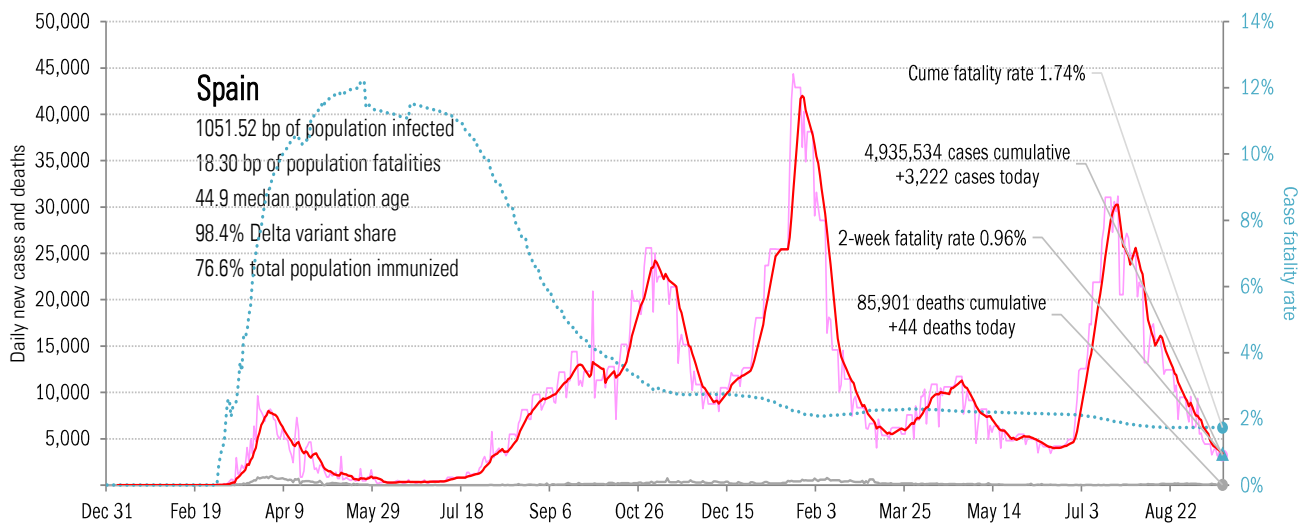
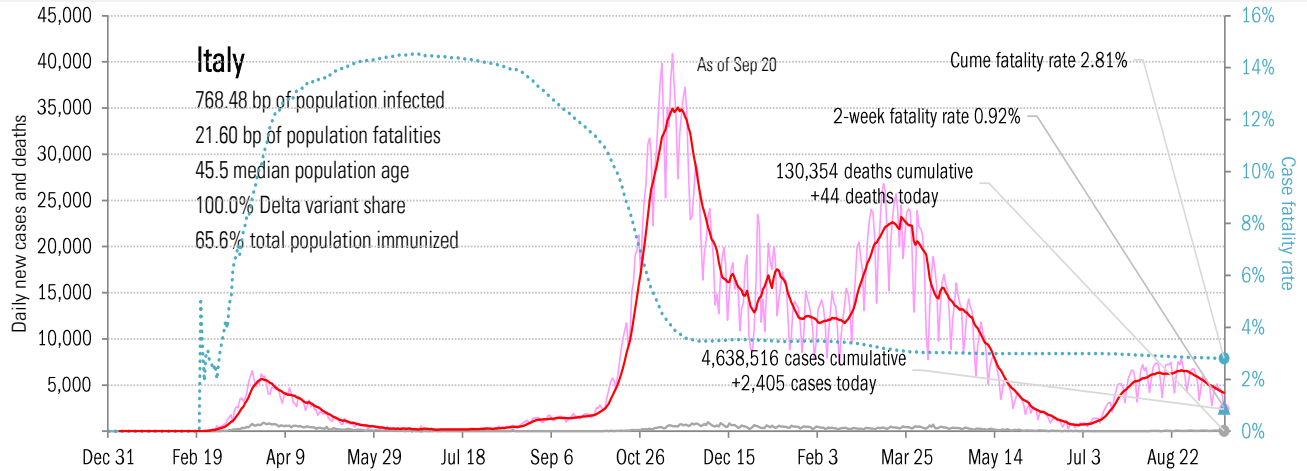


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

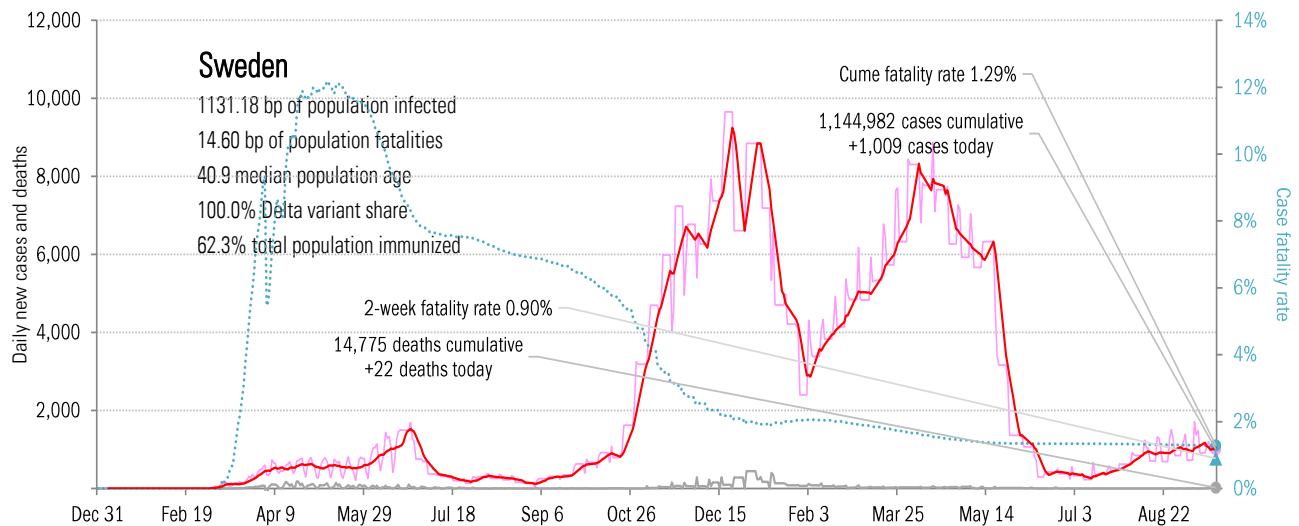
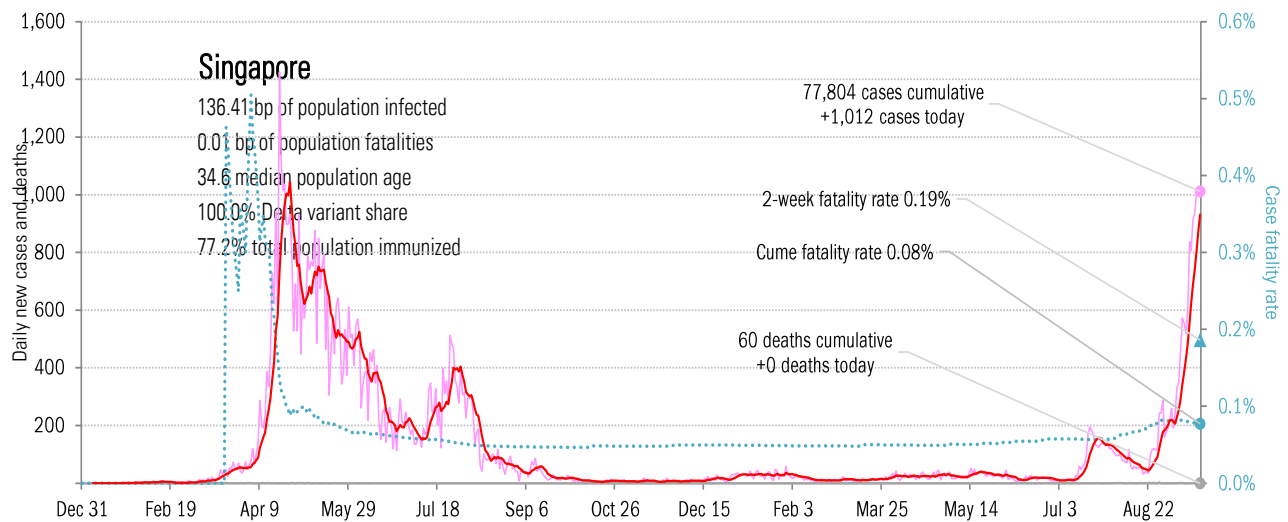
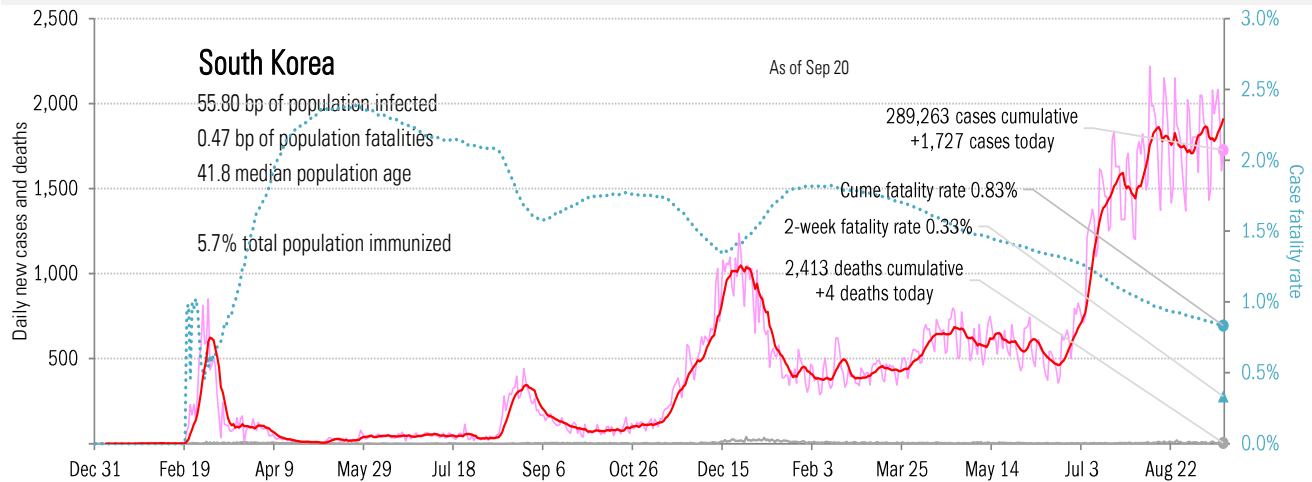
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

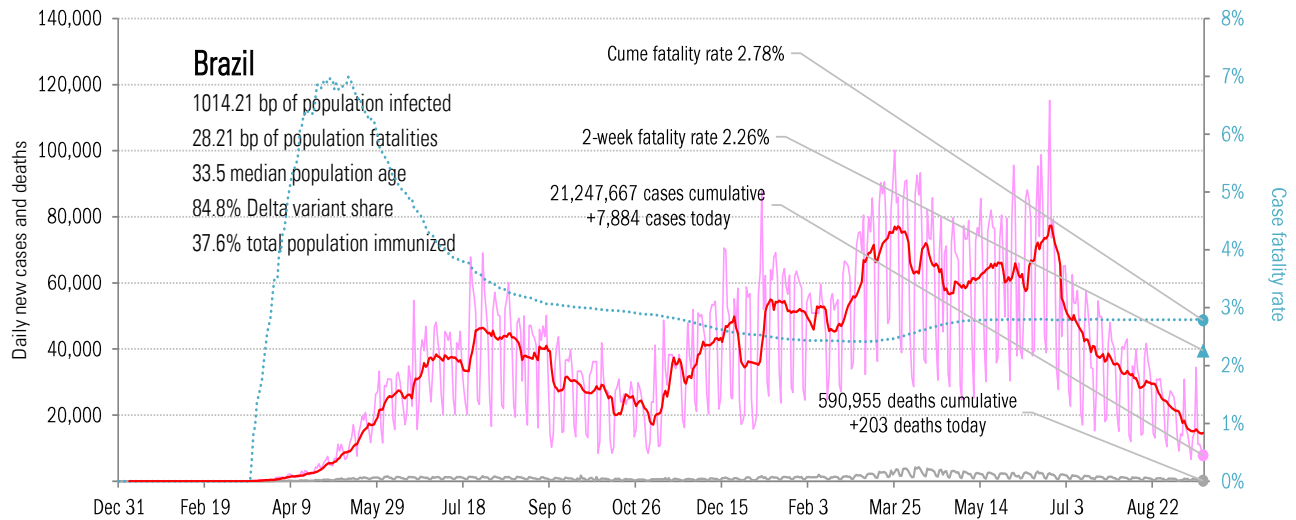
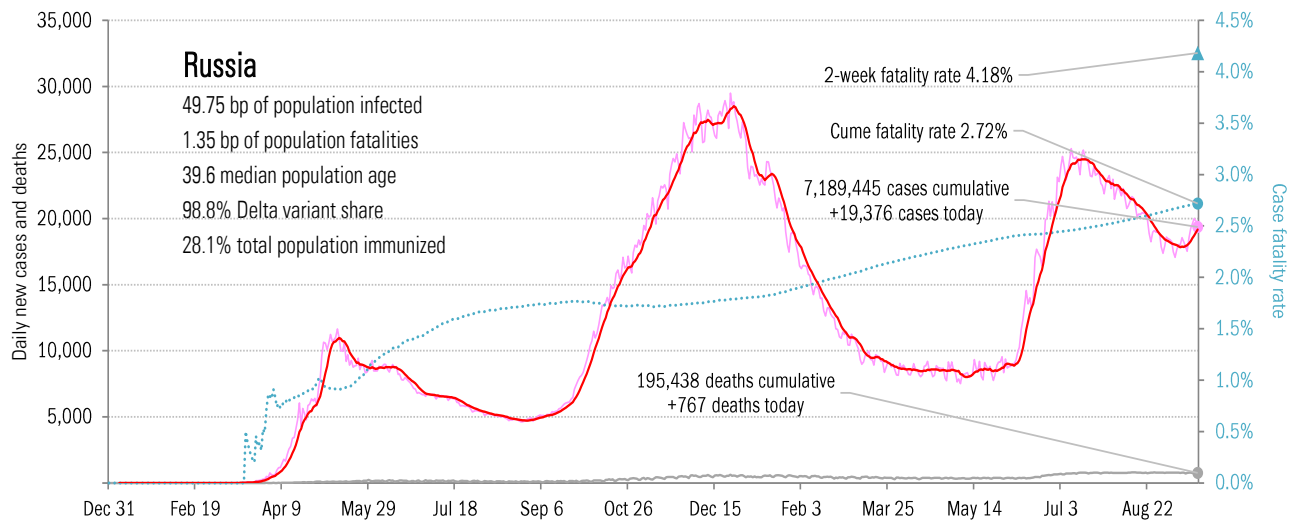
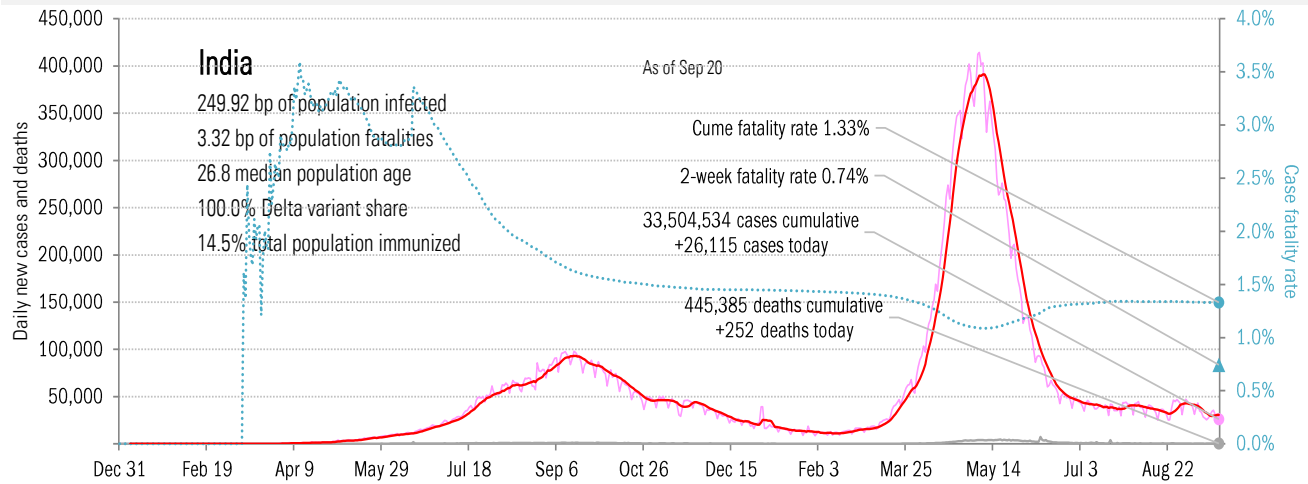
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

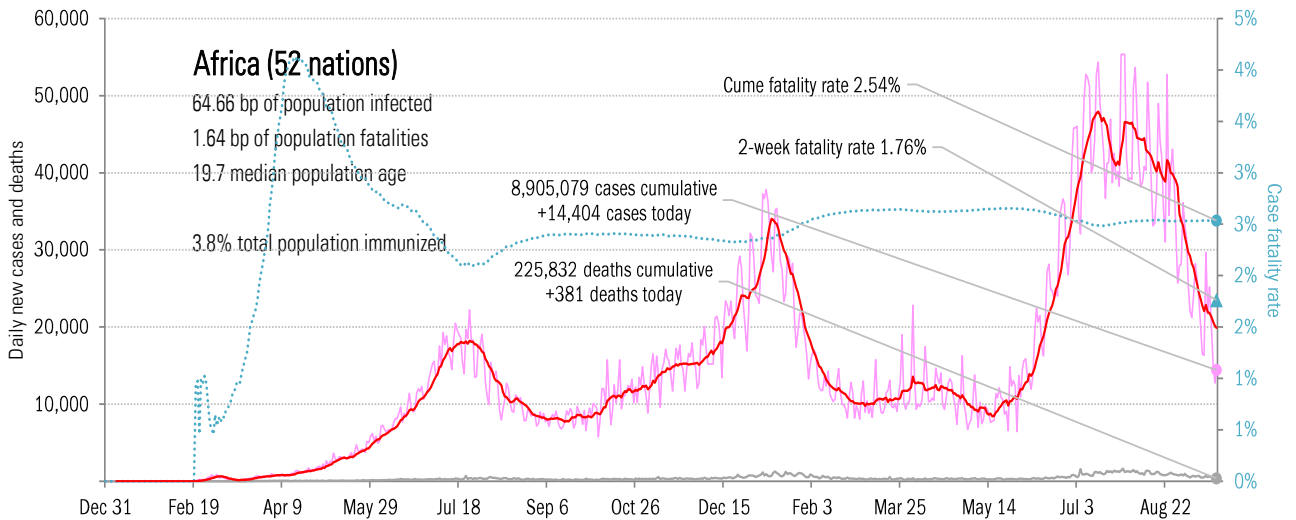
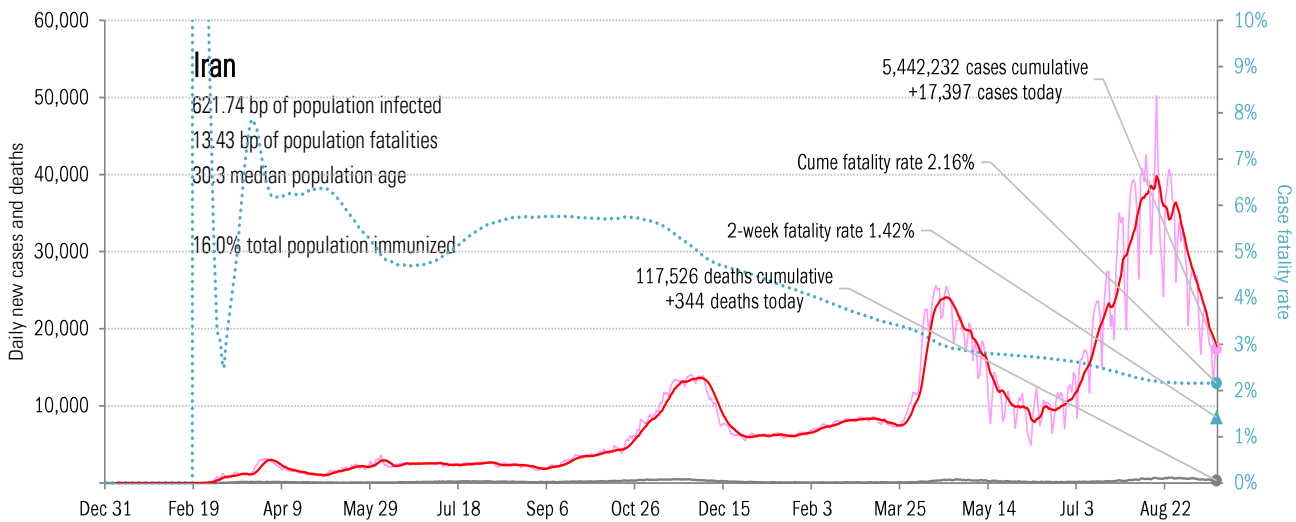
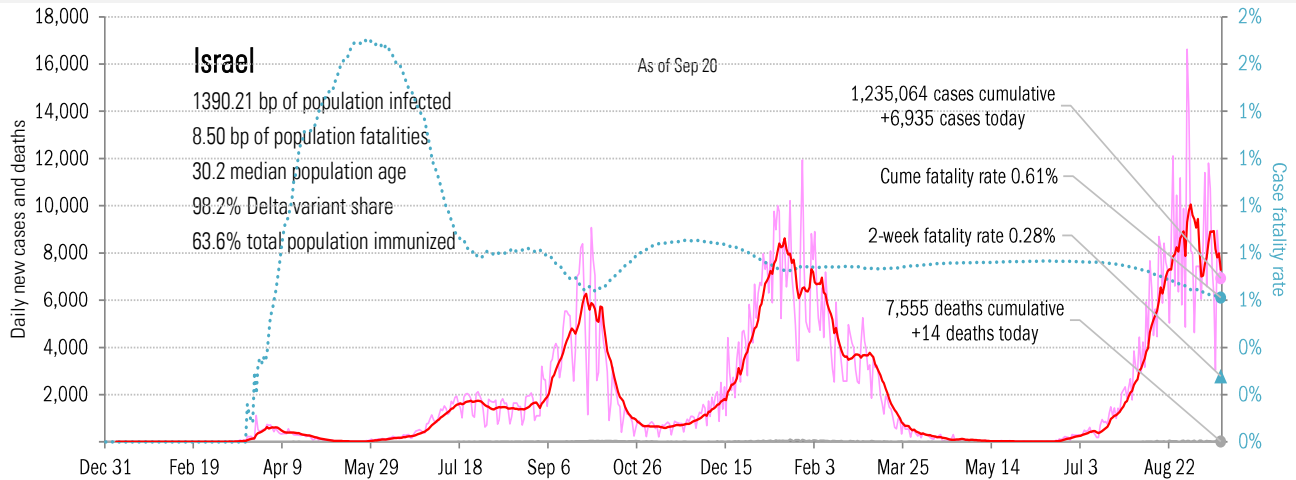
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

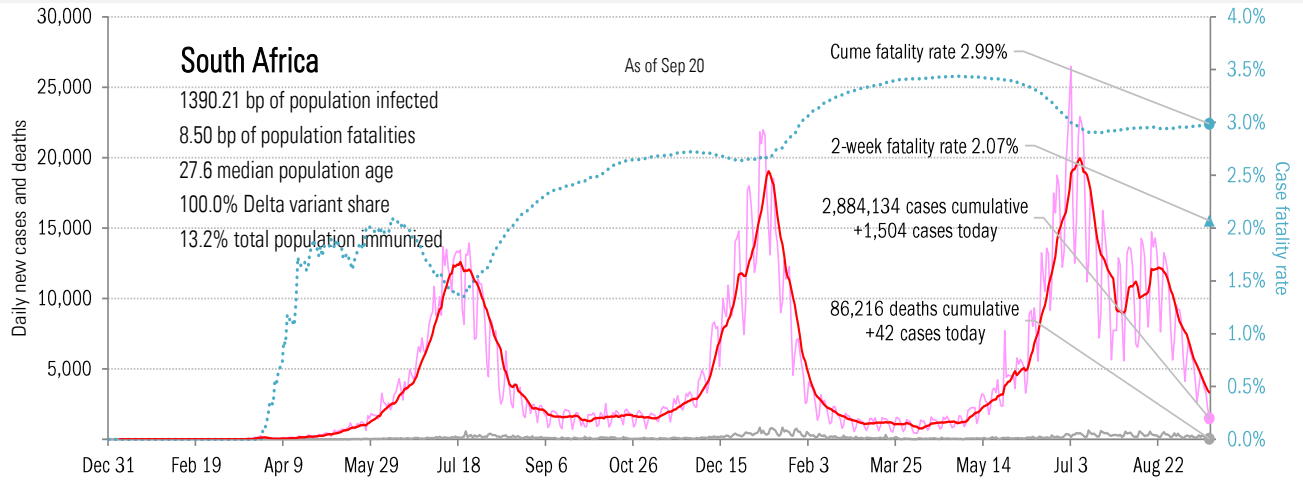
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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