

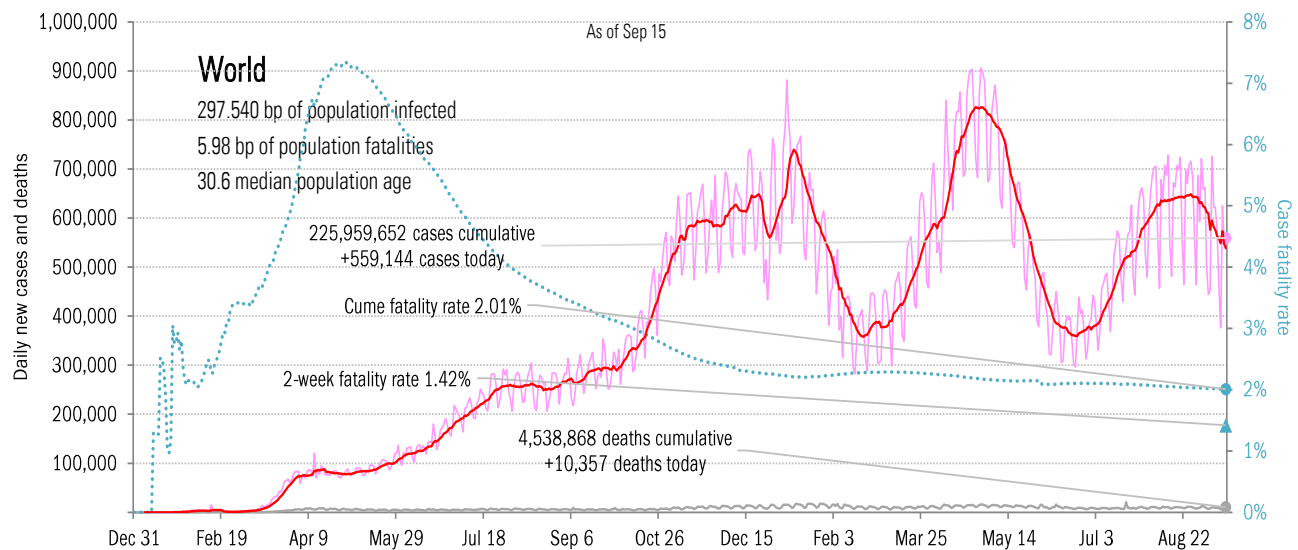
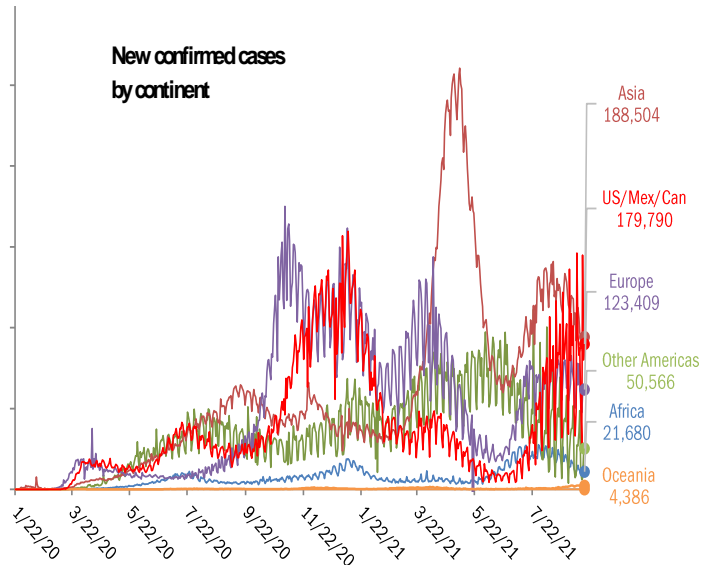
## Data Insights: Covid-2019 Monitor

Thursday, September 16, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+162,159	United States	+2,675
India	+30,570	Mexico	+897
United Kingdom	+29,901	Brazil	+800
Turkey	+28,224	Russia	+773
Iran	+19,731	Iran	+452
Malaysia	+19,495	India	+431
Russia	+18,543	Malaysia	+422
Philippines	+16,945	Indonesia	+267
Brazil	+14,780	Vietnam	+250
Thailand	+13,801	Turkey	+248
<b>+354,149</b>		<b>+7,215</b>	
World +559,144		World +10,357	
Top ten 63%		Top ten 70%	



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

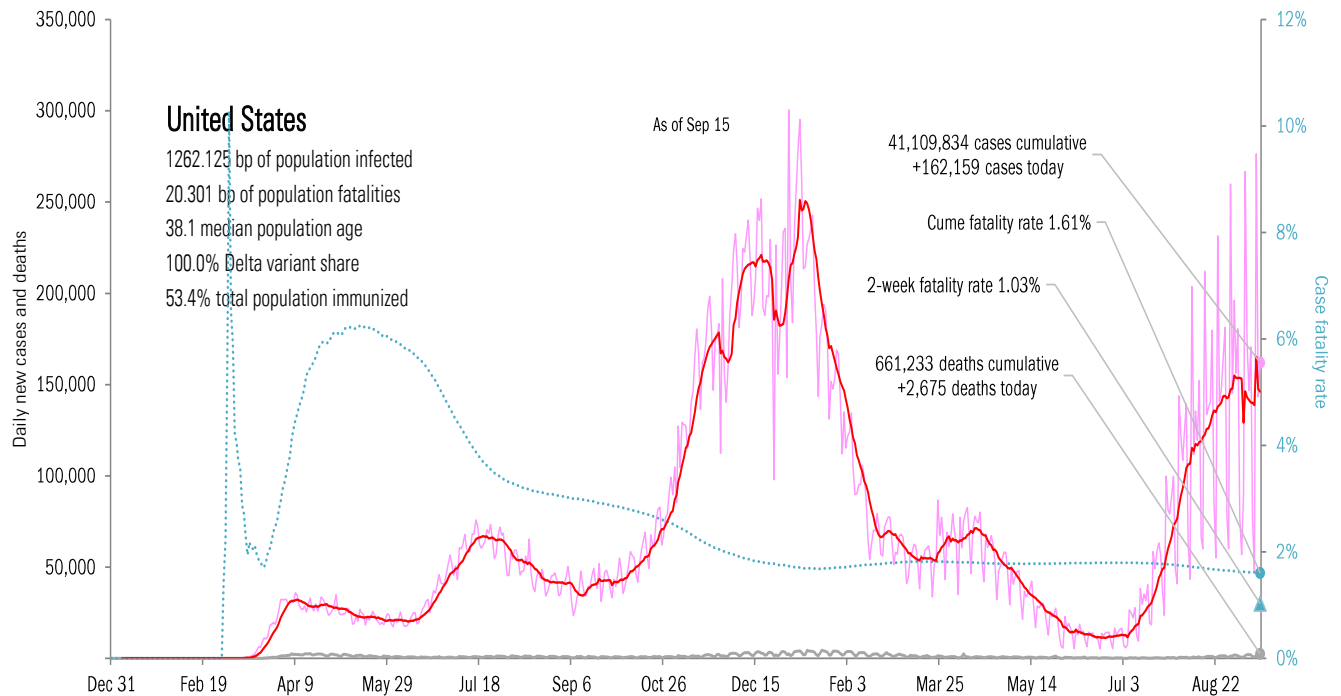
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
TX	+19,510		TX	+407		PA	+27		CA	4,506,148		CA	67,482		TX	342,697		GA	90%	AL	102%
CA	+8,678		GA	+235		NJ	+19		TX	3,890,444		TX	60,830		FL	296,830		RI	88%	GA	97%
MI	+7,757		OK	+232		WI	+18		FL	3,037,436		NY	54,717		CA	290,047		SC	86%	MS	94%
CH	+7,747		LA	+198		GA	+10		NY	2,349,898		FL	43,883		NY	151,465		PA	85%	AR	93%
NC	+7,277		CA	+184		NE	+10		IL	1,582,392		PA	28,696		GA	145,531		MA	85%	TX	92%
TN	+7,235		SC	+134		NV	+9		GA	1,513,670		NJ	27,122		CH	104,247		FL	84%	KY	92%
GA	+6,167		NC	+100		NM	+8		PA	1,359,263		IL	26,884		KY	102,296		MD	83%	FL	90%
KY	+5,389		TN	+91		IA	+7		CH	1,319,265		GA	24,263		PA	101,979		CT	82%	ID	90%
NY	+4,830		IN	+71		MD	+6		NC	1,315,427		MI	21,920		IL	96,490		MI	81%	NC	87%
PA	+4,812		AL	+66		OR	+4		TN	1,167,290		CH	21,265		MI	80,401		TX	81%	OK	87%
+79,402			+1,718			+118			22,041,233			377,062			1,711,983						
All states	+162,159		+2,675			-1258			All states	41,109,834		661,233			3,032,899			All states	70%	67%	
Top ten	49%		64%			-9%			Top ten	54%		57%			56%			Median	77%	81%	

Some states not reporting

## Five most improved US states

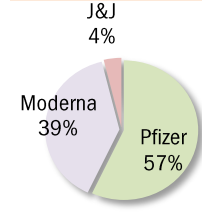
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-8,017	MO	-102	IL	-108	GA	+70 bp
MN	-1,867	AZ	-88	NC	-104	WY	+40 bp
GA	-1,160	CH	-87	KY	-91	MN	+20 bp
SC	-1,087	MS	-46	CH	-83	MS	+20 bp
IA	-703	WY	-39	AL	-82	OK	+20 bp



Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

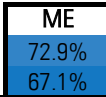
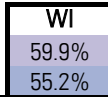
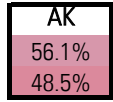
Administered	Cumulative		Today		Immunity	Full	Partial	
Doses	One dose	% Pop	Immune	% pop	New immune today			
	393,046,113				+0.868 million	US	53.4%	62.6%
Total population	215,465,698	64%	184,229,012	55%	+0.413 million	UK	64.8%	71.1%
Age 12 to 17	13,224,198	56%	10,467,448	44%	+0.060 million	France	63.5%	73.5%
Age 18 to 64	148,726,542	73%	126,180,450	62%	+0.309 million	Spain	76.1%	79.8%
Age 65 and over	52,467,900	96%	46,727,028	85%	+0.042 million	Germany	62.1%	66.3%
						Italy	64.8%	72.9%
						Australia	34.9%	55.7%
						Israel	63.3%	68.9%
						Canada	68.8%	74.8%
						Japan	52.9%	65.2%
						Africa	3.7%	5.9%
						India	13.2%	41.4%
						Brazil	35.3%	67.2%
						China	67.2%	75.8%



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

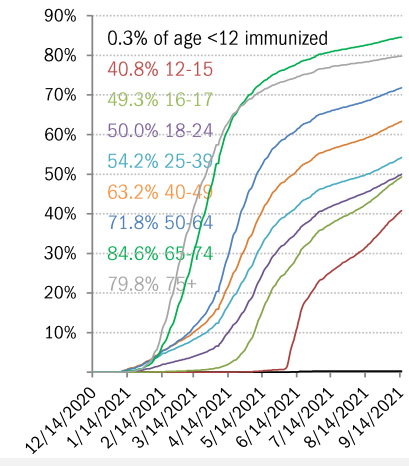
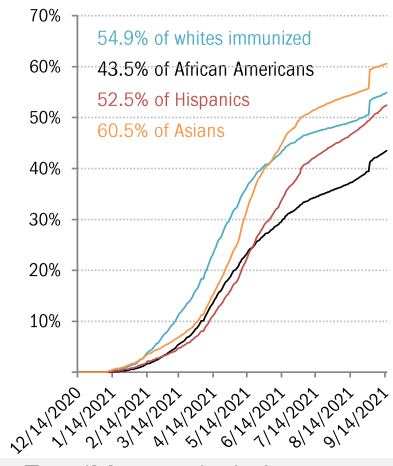
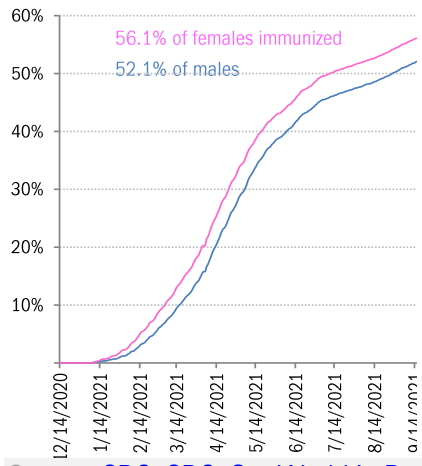


Every American >18 immune in **110 days** by Jan 3, 2022  
 67.0% of population >18 immunized  
 14.0% previously tested positive  
**81.0%** vs 60% adult herd immunity



WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
69.9%	45.7%	53.6%	49.8%	62.8%	67.3%	56.0%	69.4%	76.9%	68.5%	
61.8%	40.4%	47.3%	42.8%	57.2%	52.4%	51.3%	62.0%	68.7%	60.8%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
65.6%	59.5%	47.1%	57.9%	57.3%	51.2%	53.5%	70.9%	71.4%	76.4%	
59.4%	49.4%	40.3%	50.4%	52.9%	47.3%	49.4%	56.5%	63.0%	67.0%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
70.3%	57.7%	64.6%	58.5%	53.9%	59.1%	47.6%	66.8%	69.5%	74.9%	73.6%
57.4%	49.0%	58.2%	53.4%	46.6%	50.3%	40.0%	58.7%	62.9%	67.3%	66.4%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	58.2%	71.4%	58.7%	54.7%	51.5%	57.8%	53.6%	69.1%	65.2%	
	49.9%	61.6%	49.8%	44.0%	43.7%	48.1%	45.3%	58.8%	56.5%	
			OK	LA	MS	AL	GA			
			55.2%	50.7%	49.0%	51.4%	53.5%			
			45.9%	43.6%	41.5%	40.5%	43.5%			
			TX							
			58.6%							
			49.4%							
								FL		PR
								65.7%		77.4%
								55.4%		67.0%

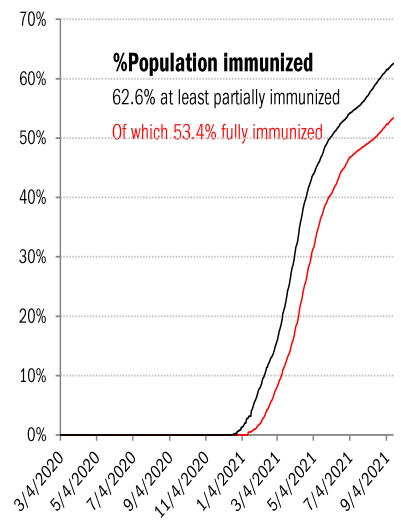
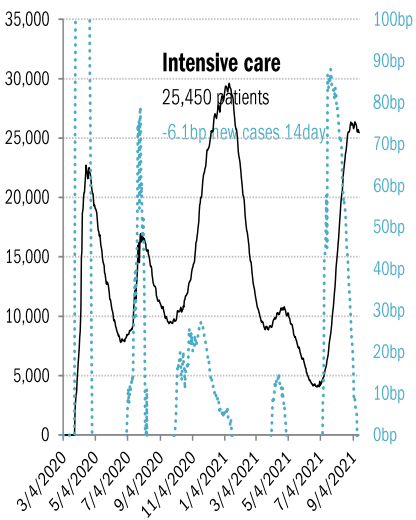
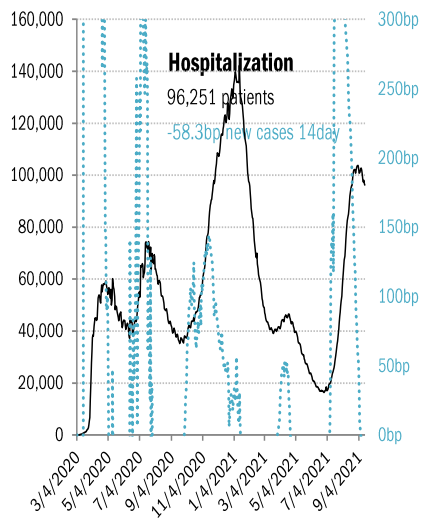
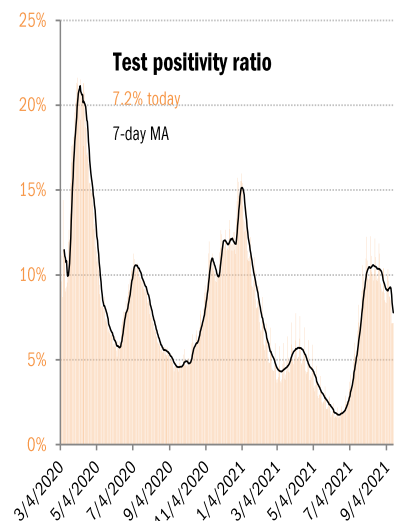
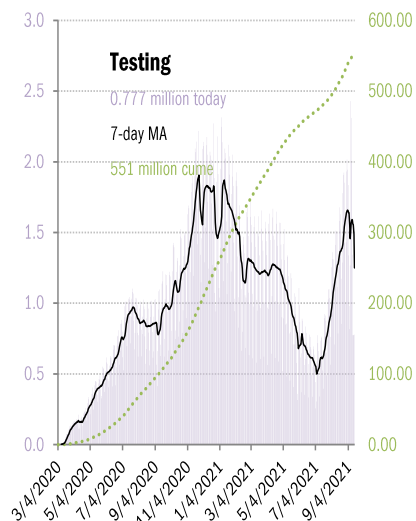
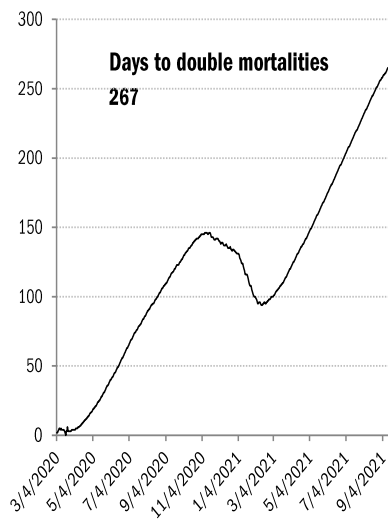
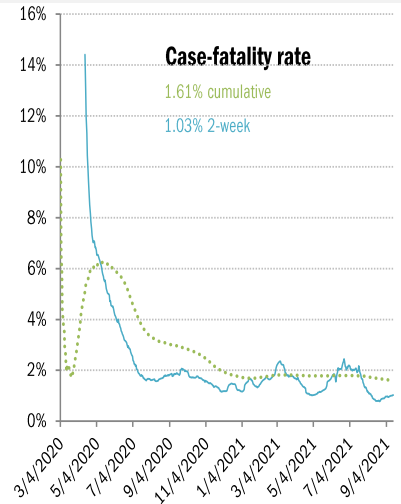
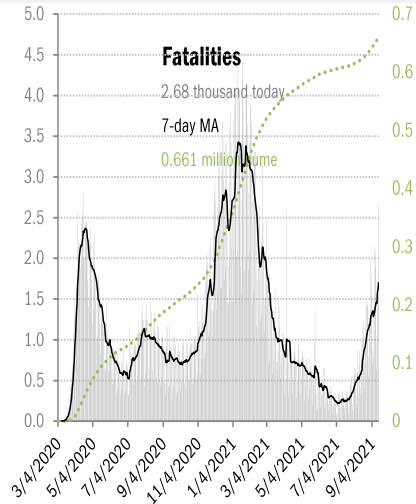
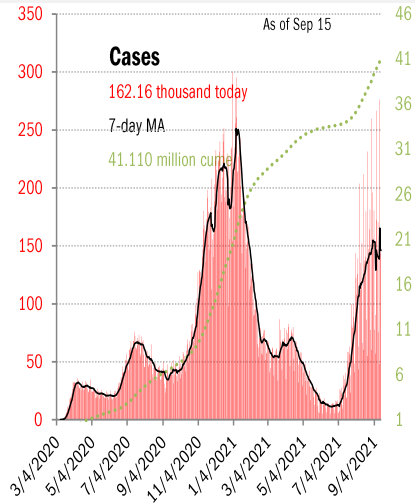
## The demographics of US vaccination



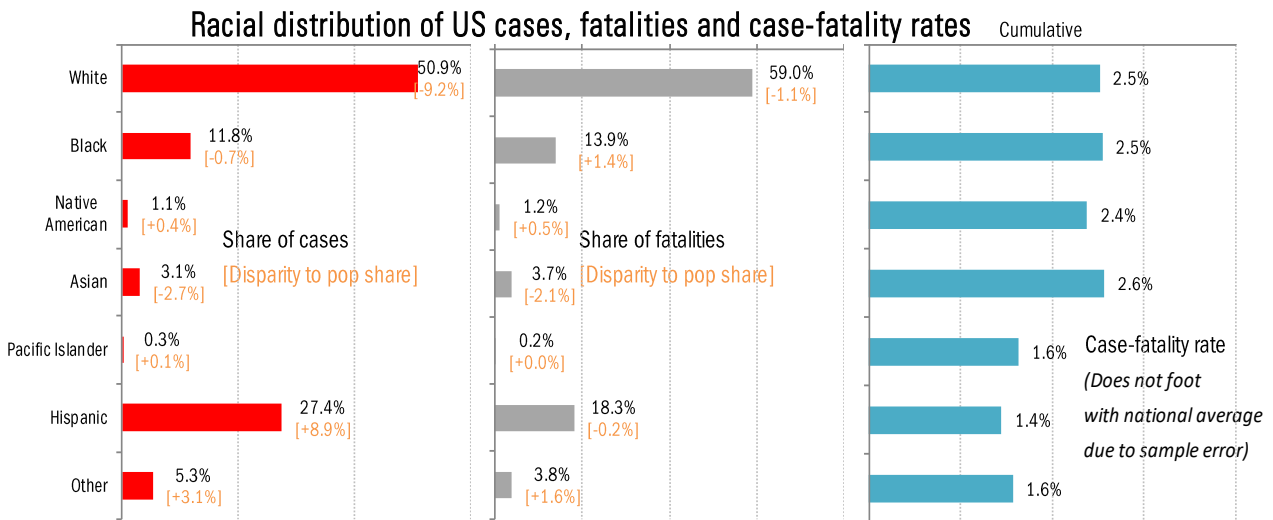
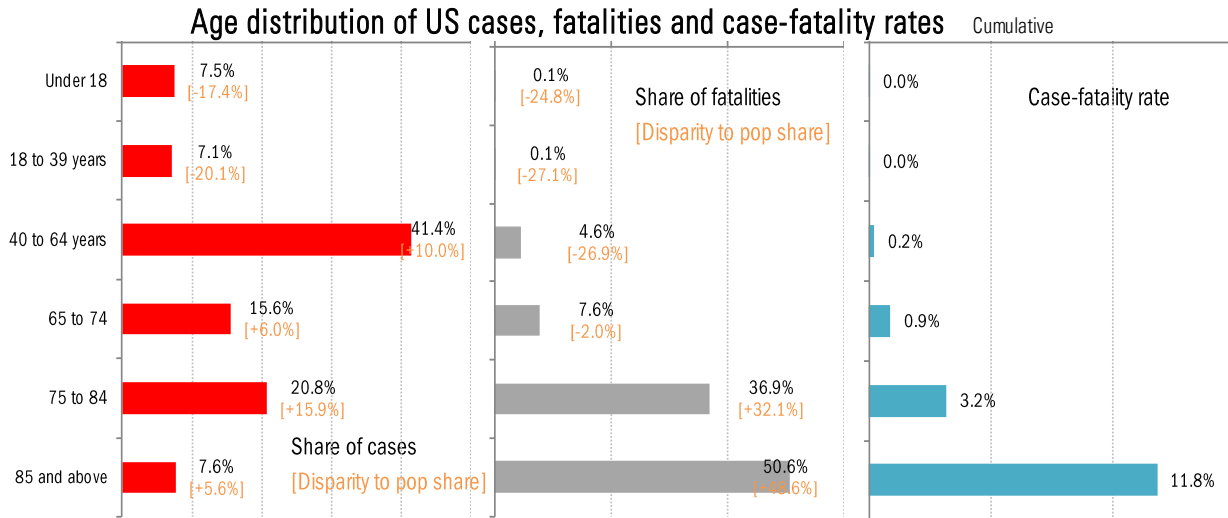
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

# US deep-dive

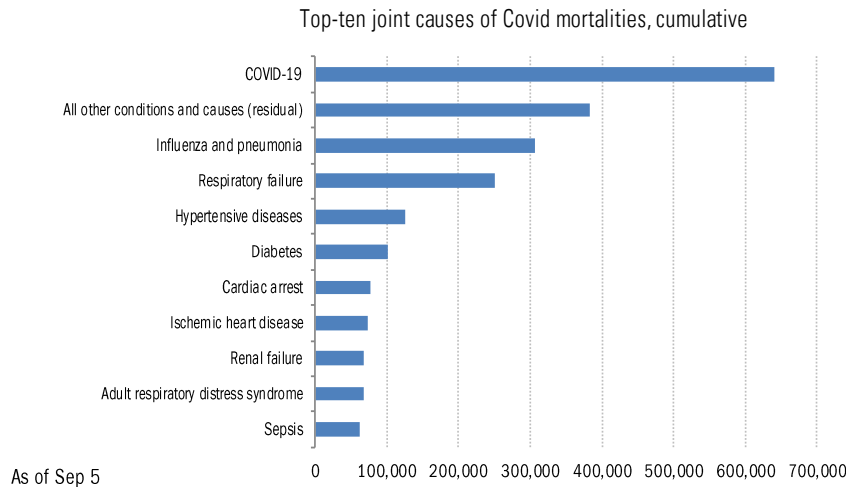
National and state-by-state data do not line up because of different sources



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



### Comorbidities



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

[Stanford Faculty Smear Professor Who Accurately Summarized Data On Masks](#)

Carl Heneghan and Martin Kulldorff  
*The Federalist*  
September 15, 2021

[American Airlines Kicks Mother, Grandmother, and Asthmatic Two-Year-Old Off of Plane Because Toddler Wouldn't Keep Mask on](#)

Debra Heine  
*American Greatness*  
September 14, 2021

[Did Ayn Rand defeat vaccine passports?](#)

Mary Harrington  
*UnHerd*  
September 13, 2021

## Meme of the day

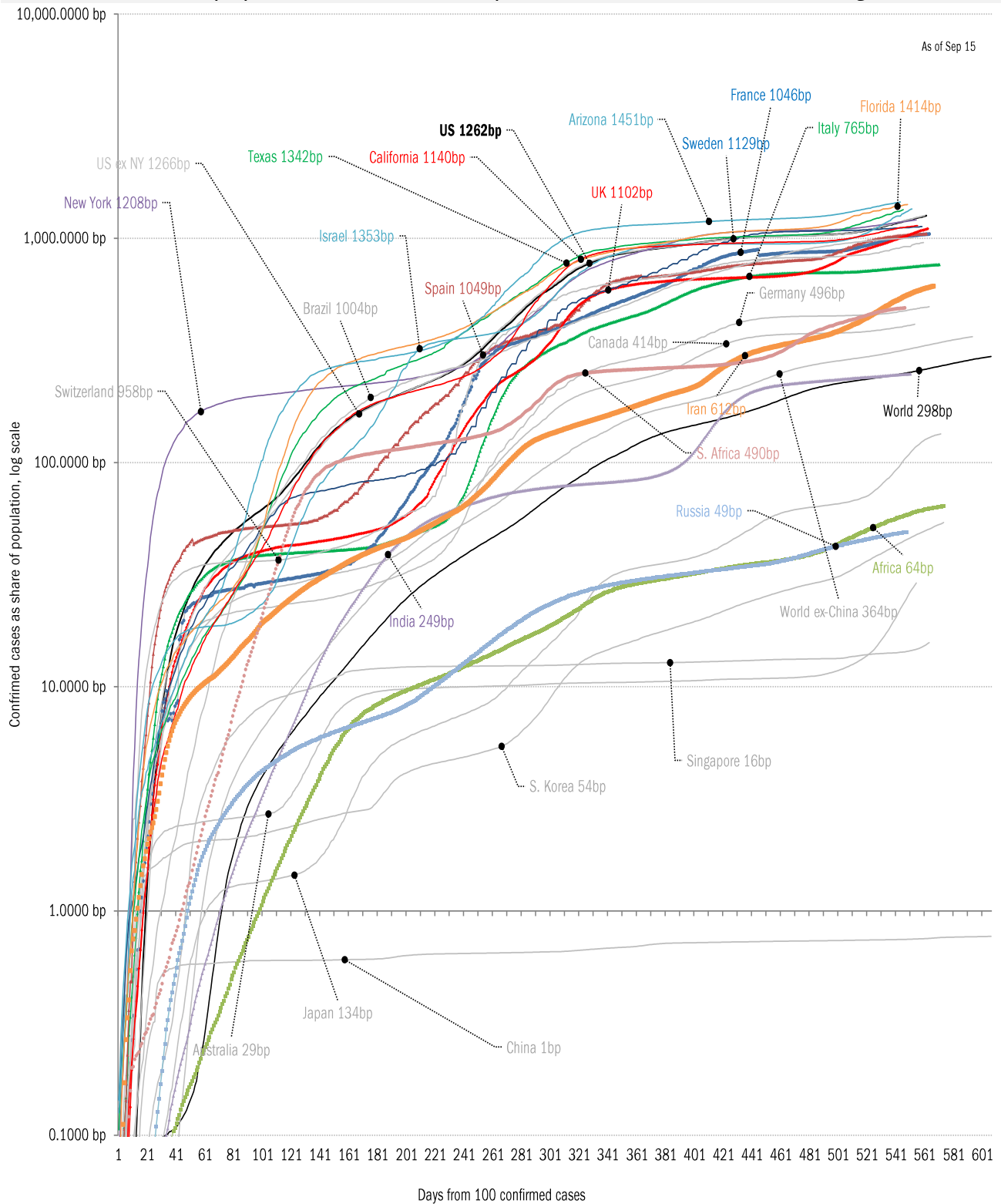


## CDC Says A New COVID Variant May Be Needed To Effectively Bury Afghanistan News

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

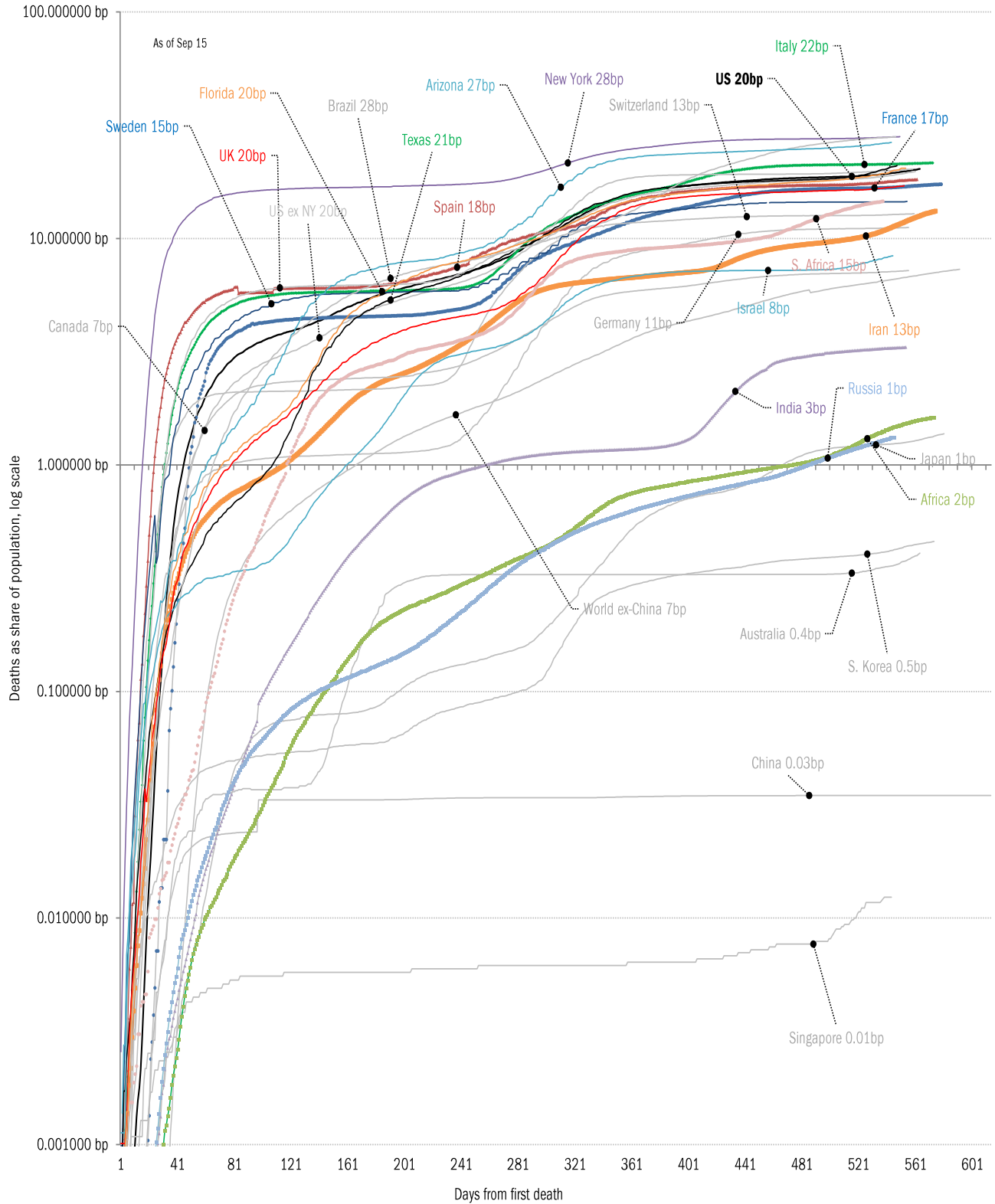


The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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*



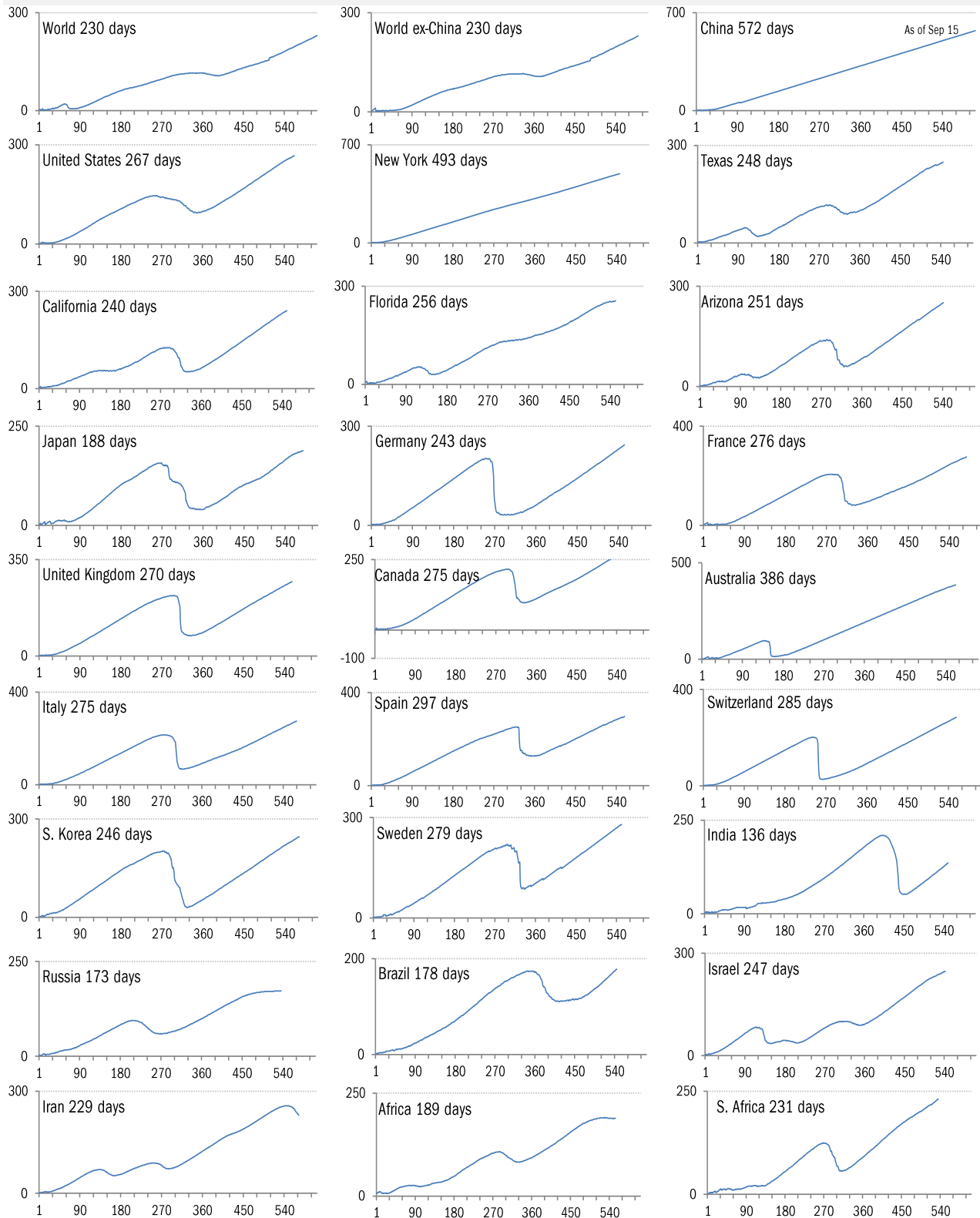
Source: [Johns Hopkins](#), TrendMacro calculations



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

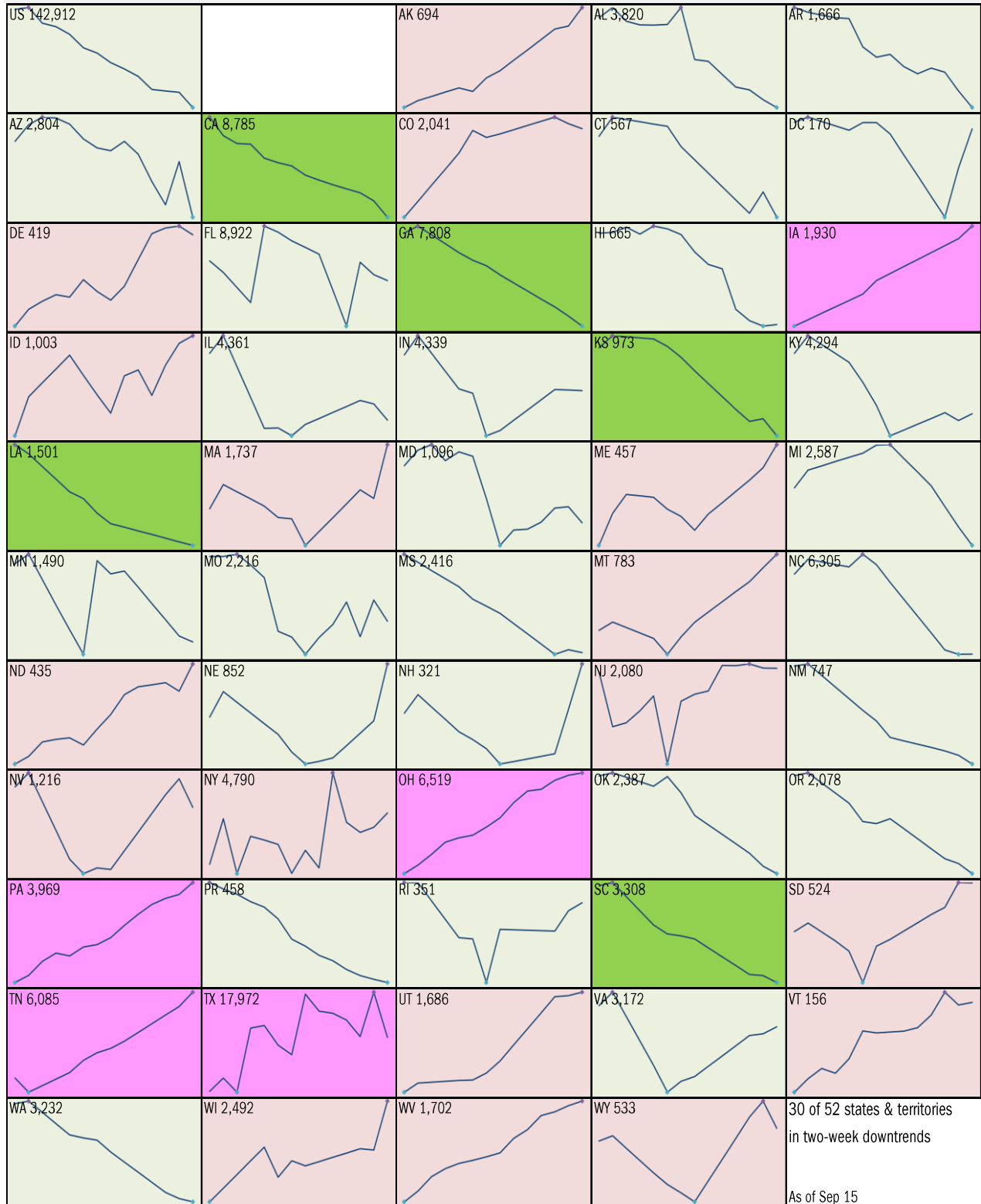
Vertical: days to double deaths Horizontal: days from first death

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

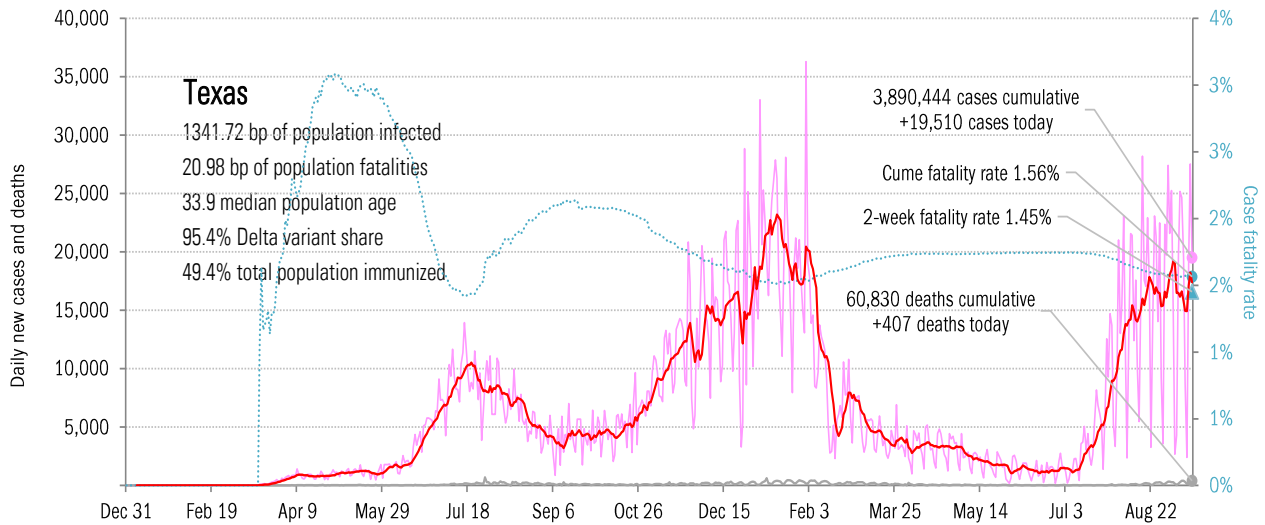
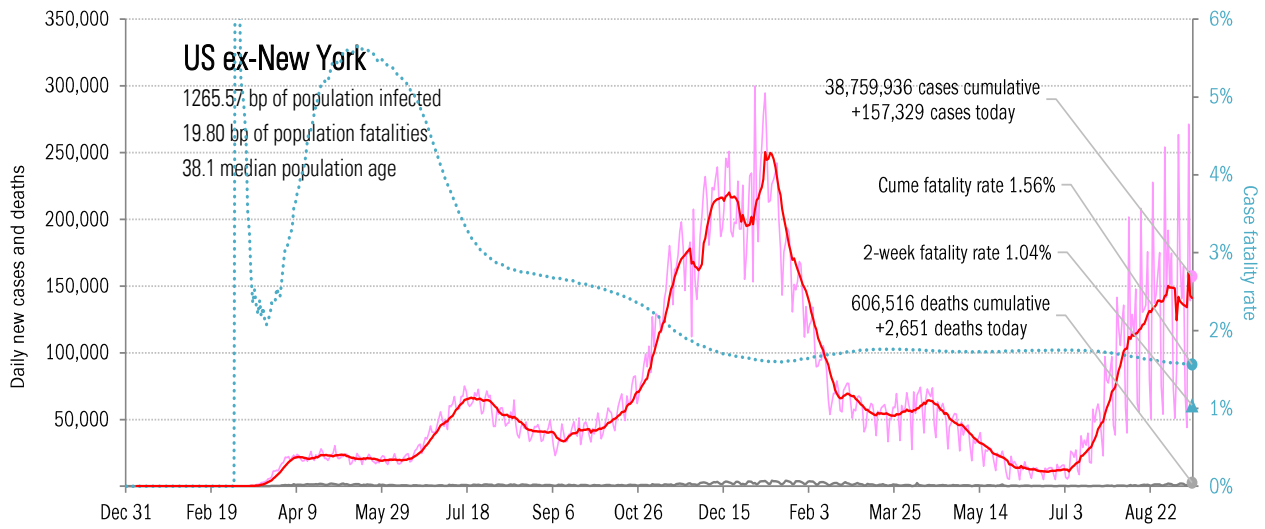
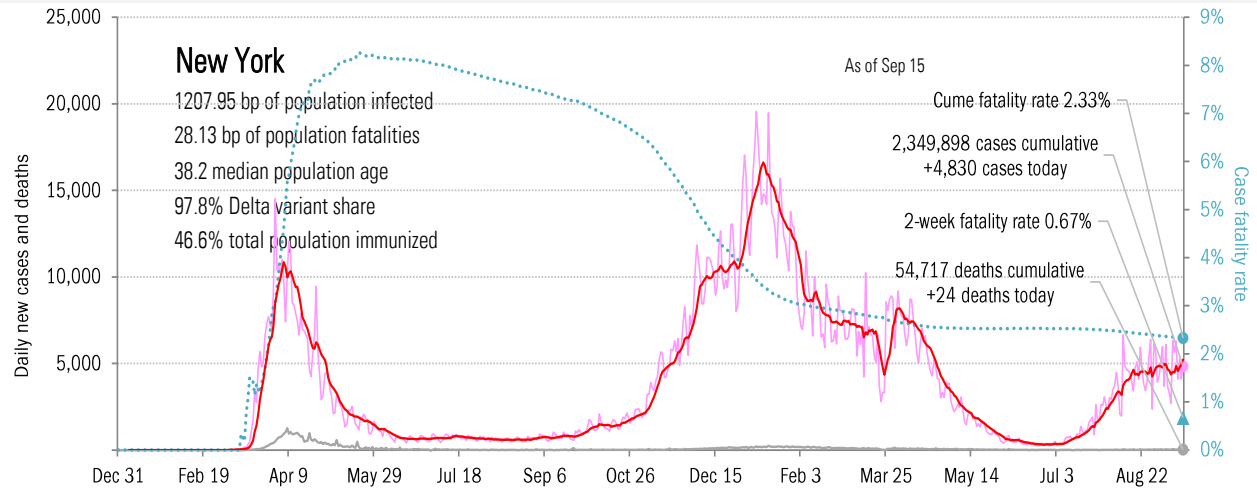
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

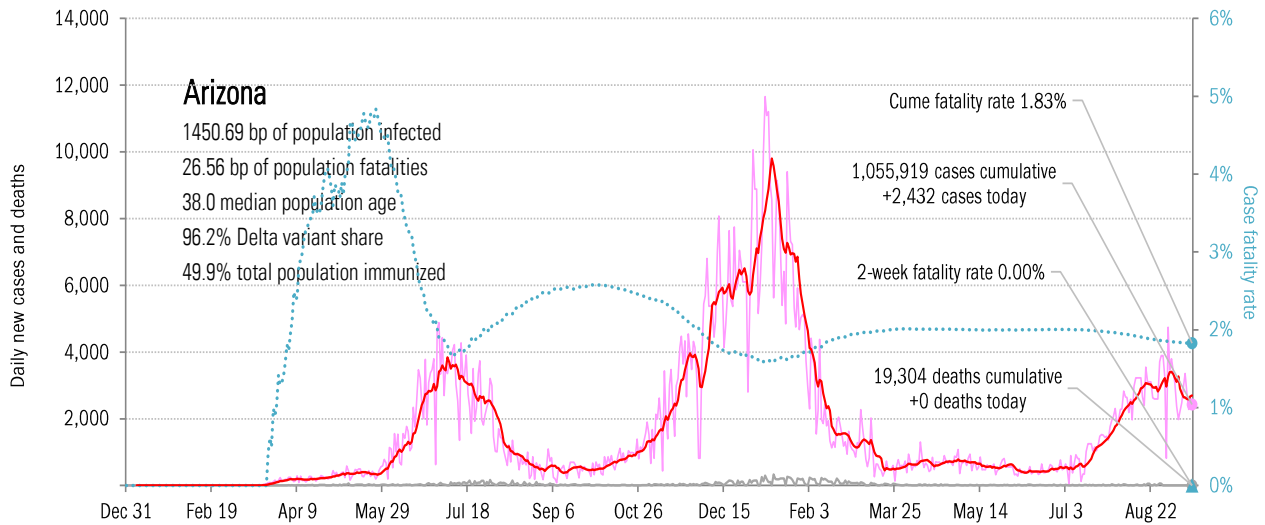
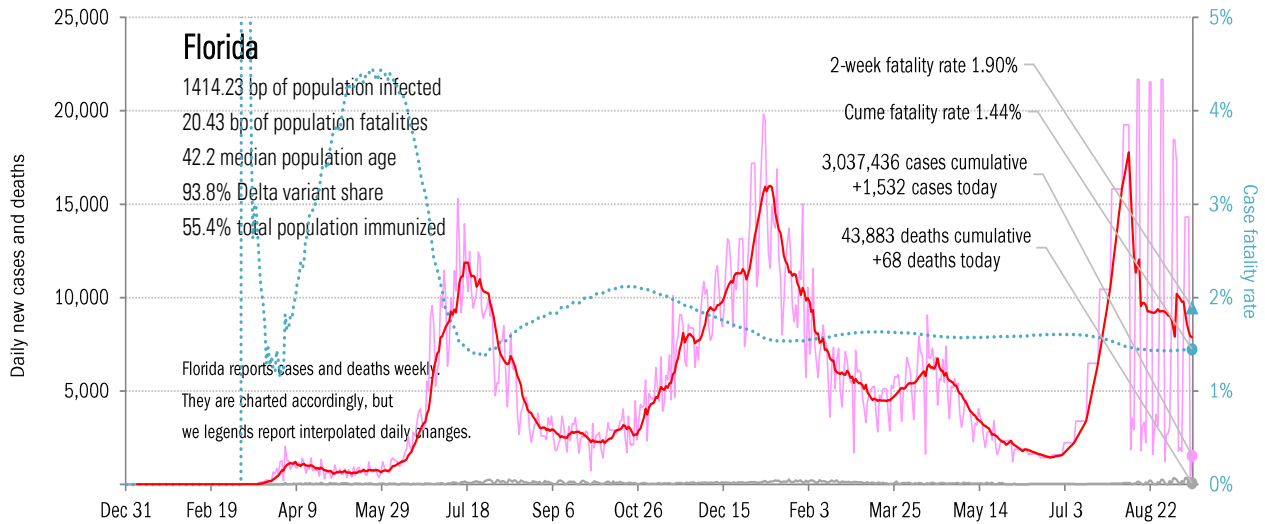
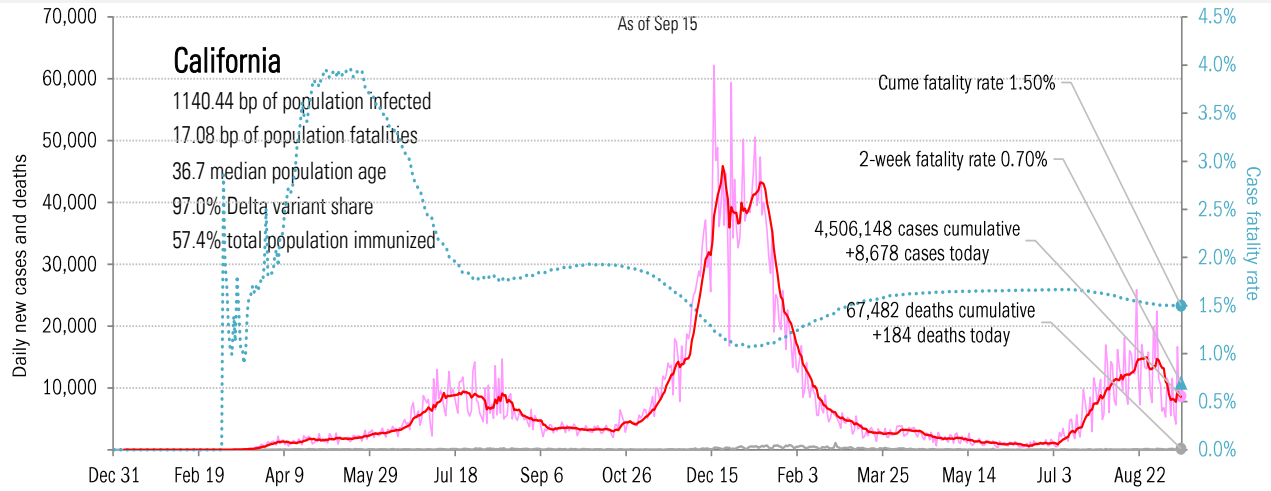
Cases: 7-day average and daily Deaths: Daily



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

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

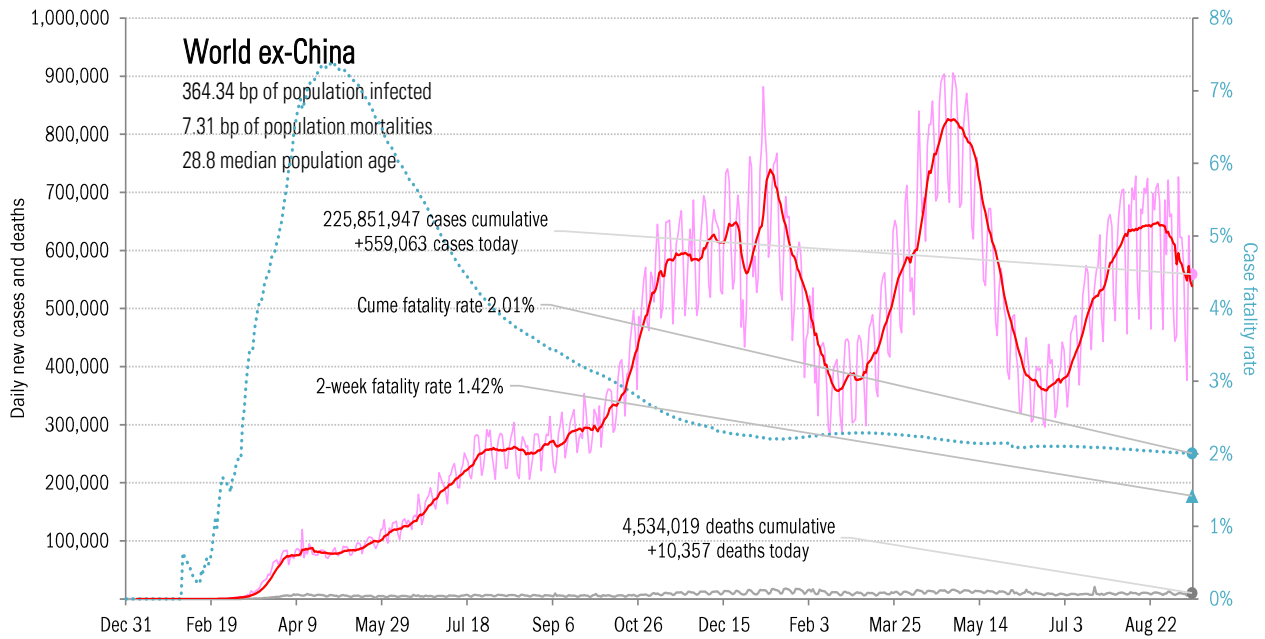
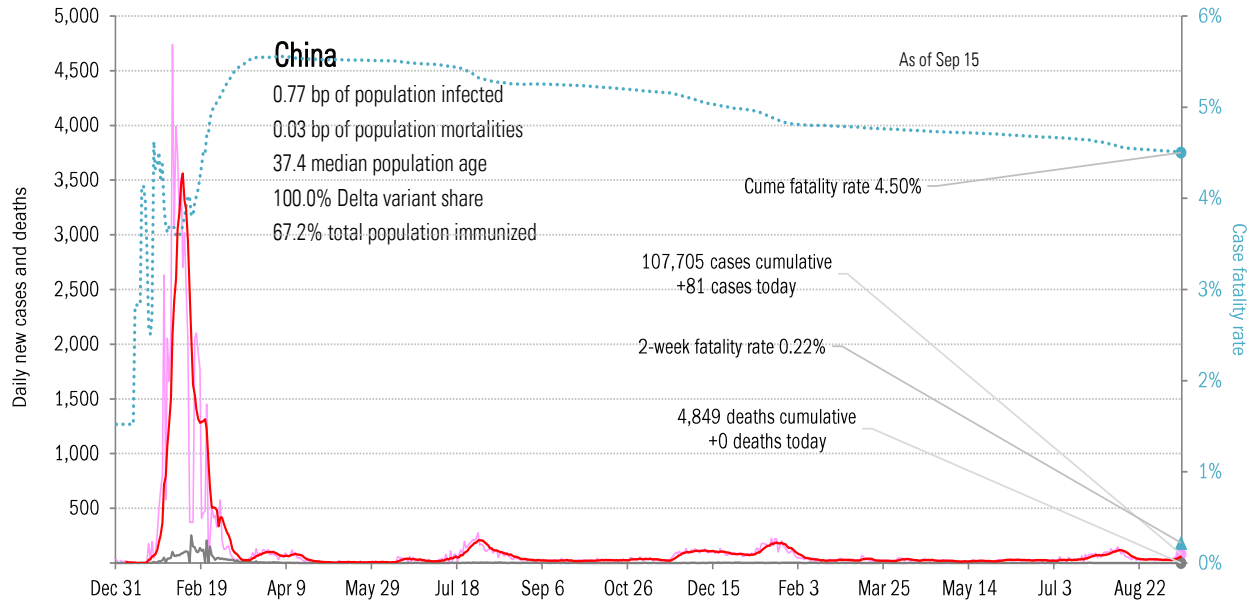
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

Cases: 7-day average and daily Deaths: Daily

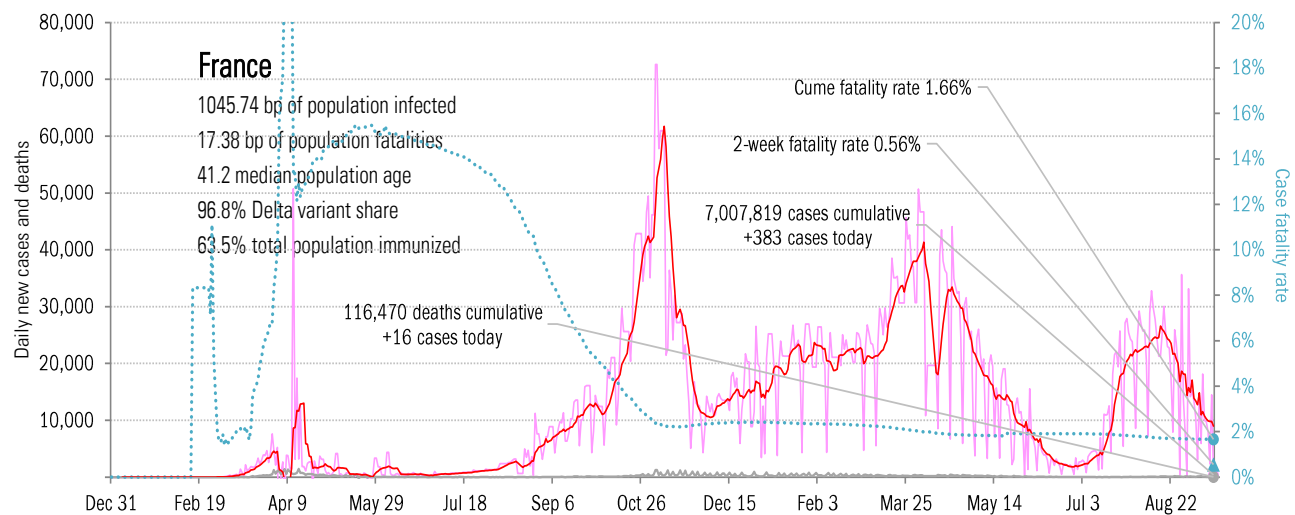
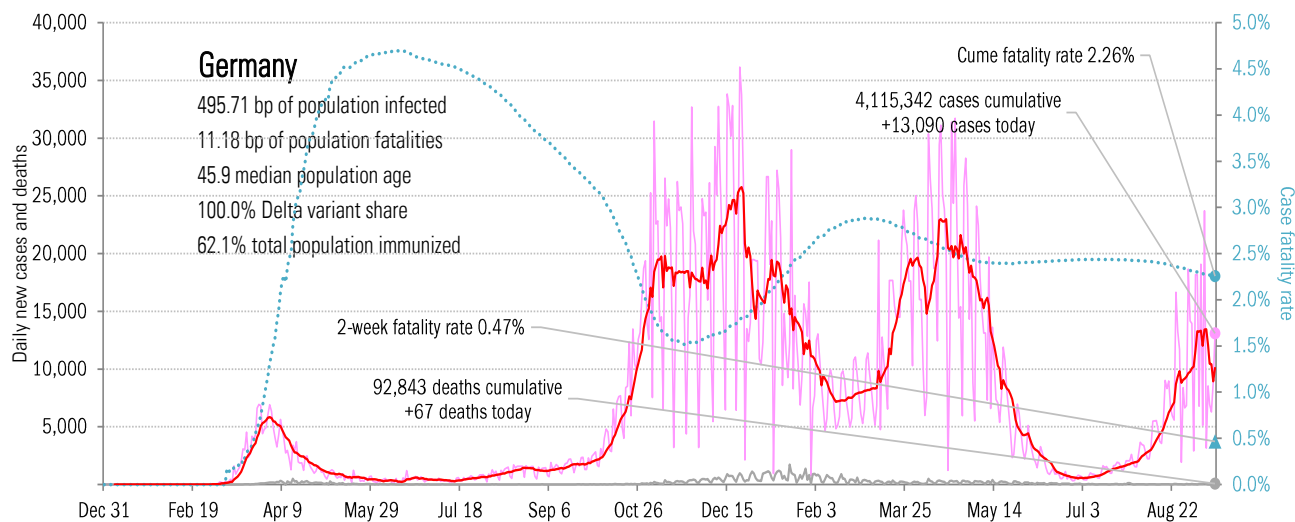
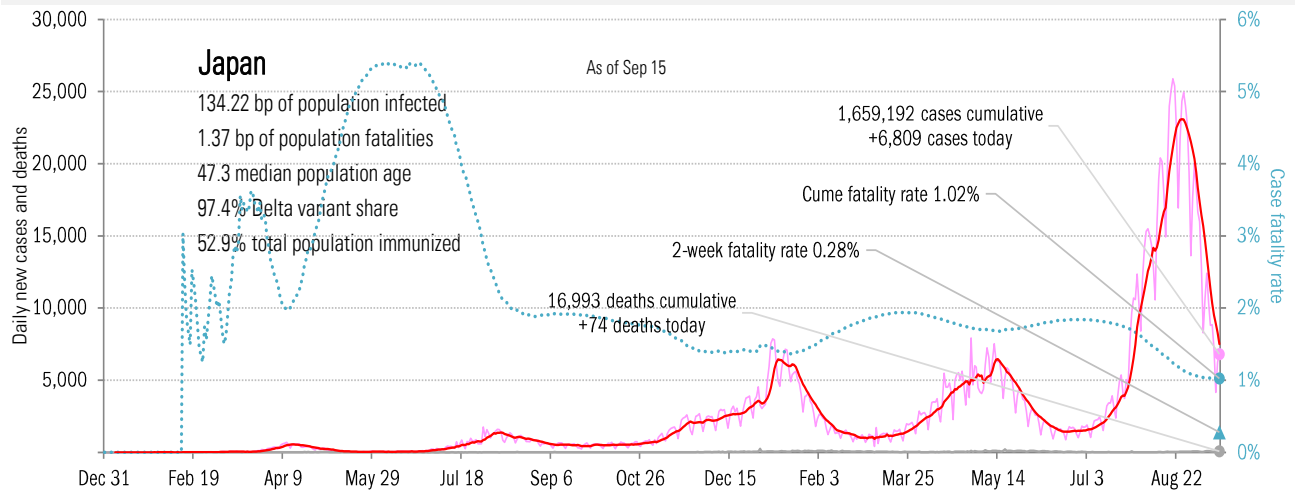


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in the largest economies

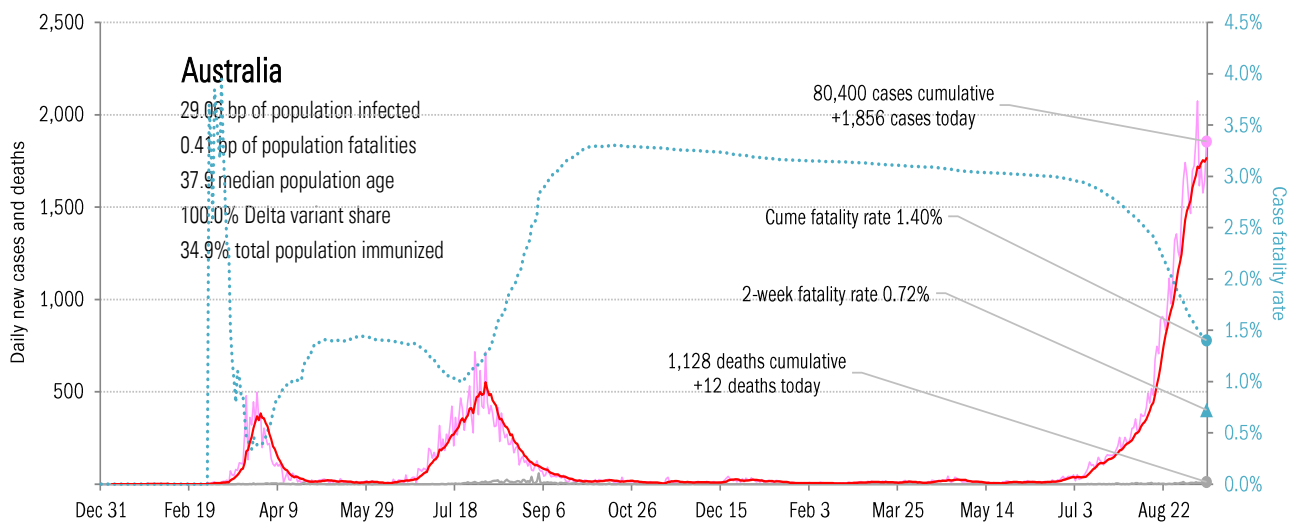
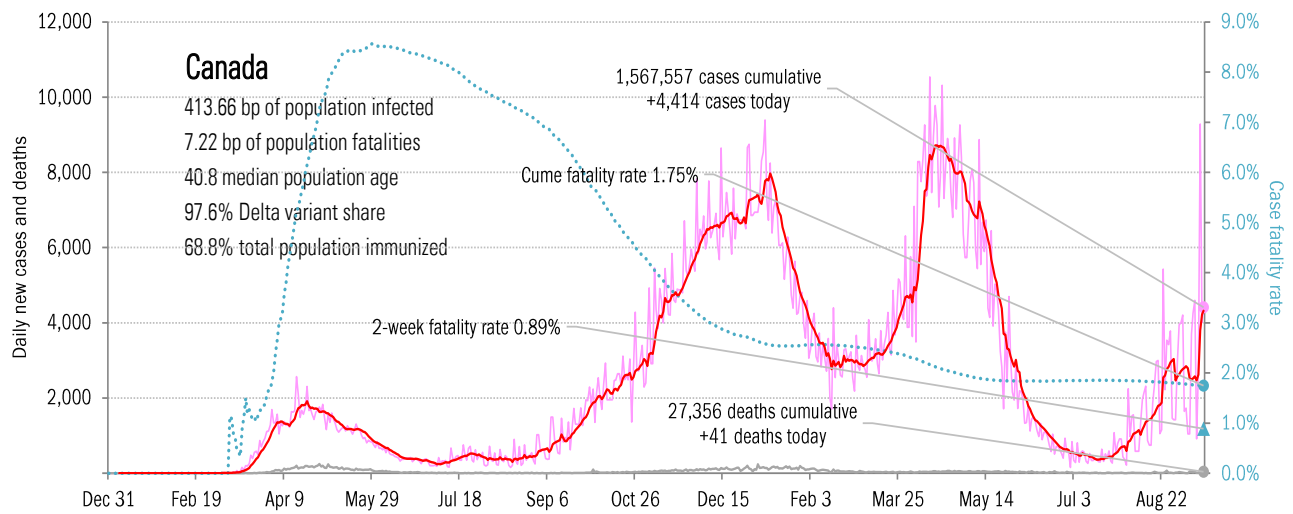
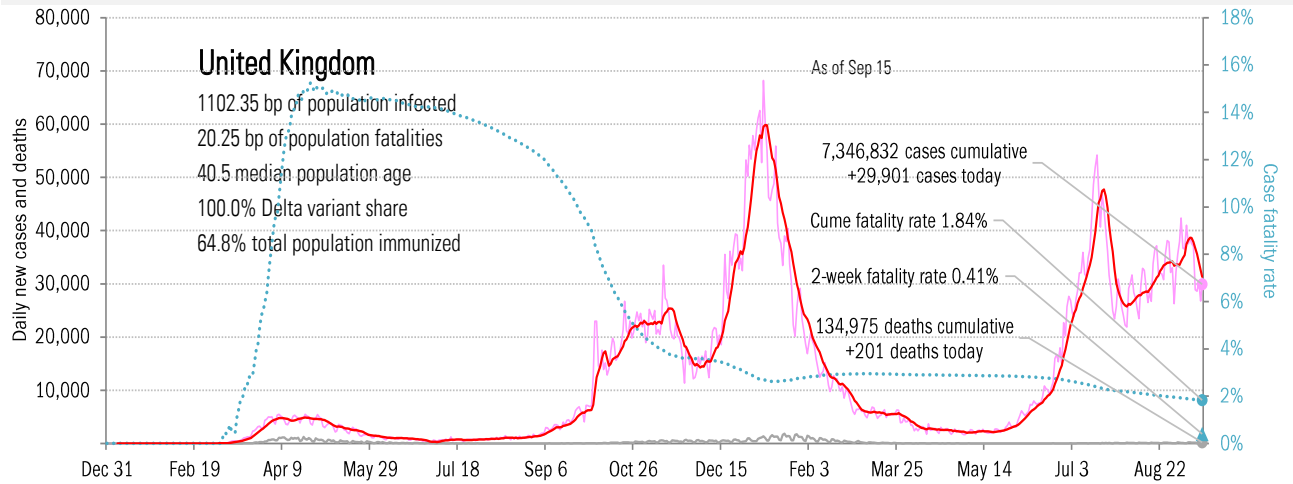
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

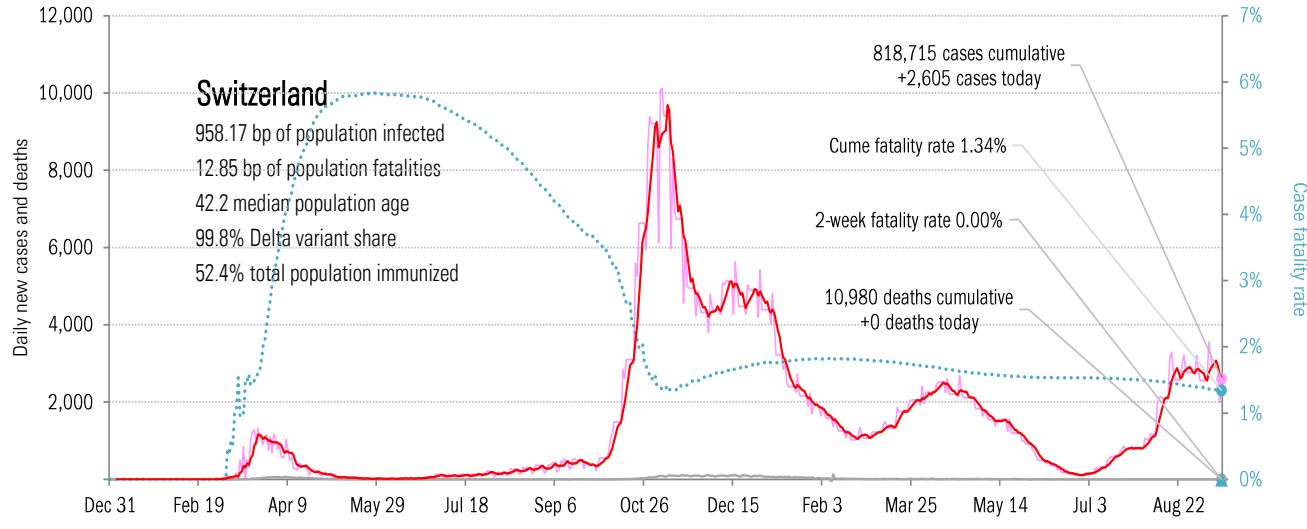
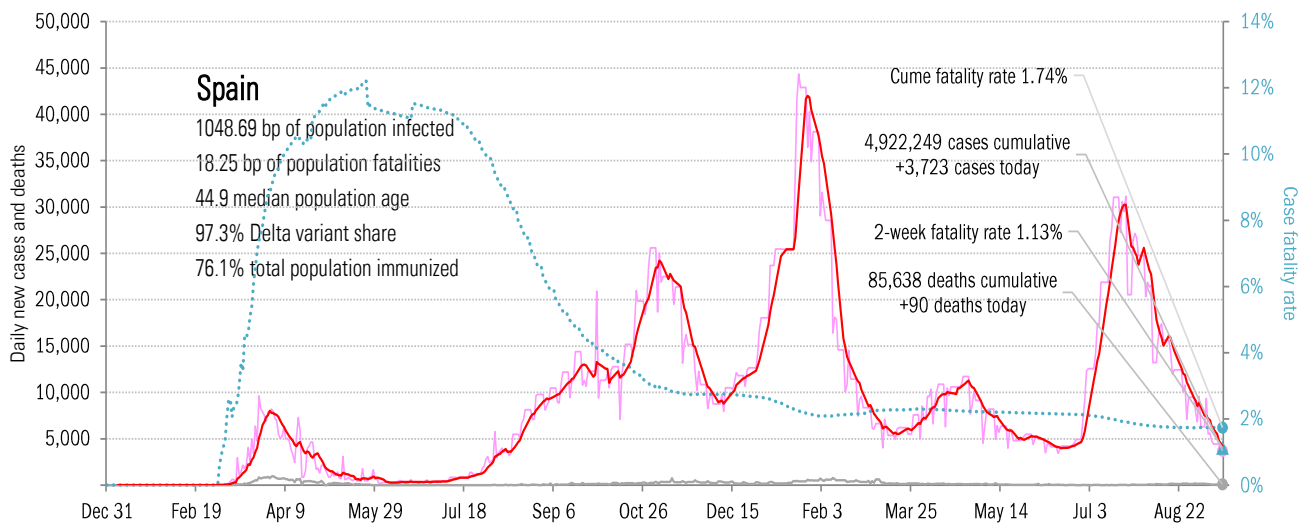
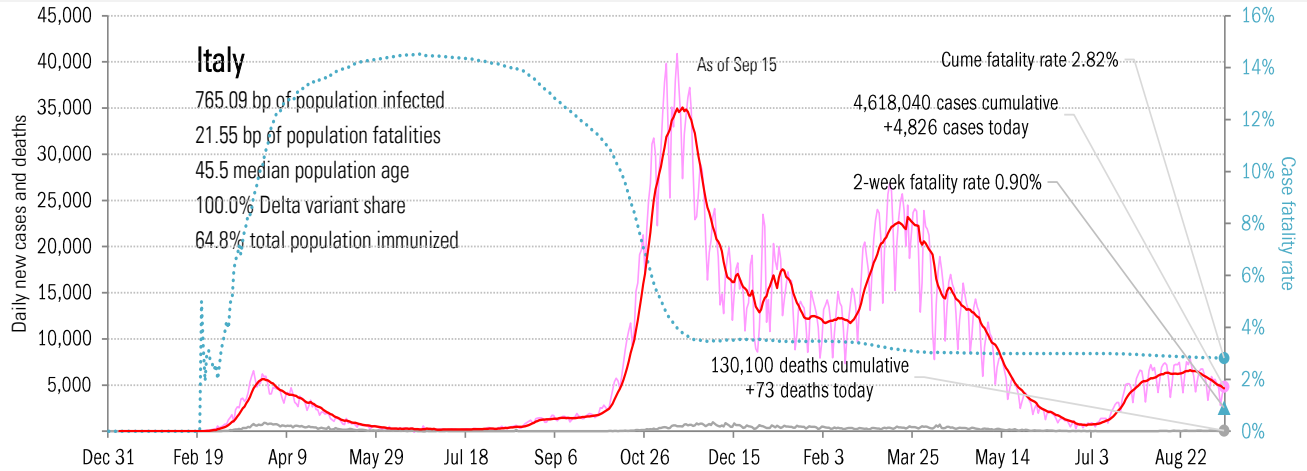
Cases: 7-day average and daily Deaths: Daily



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

# Impact in continental Europe

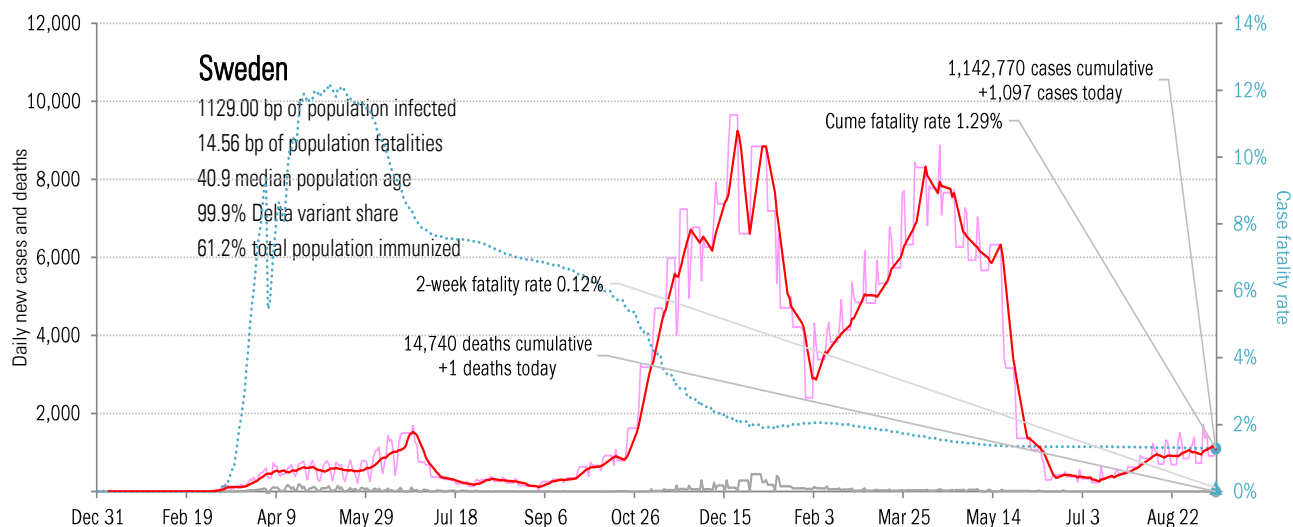
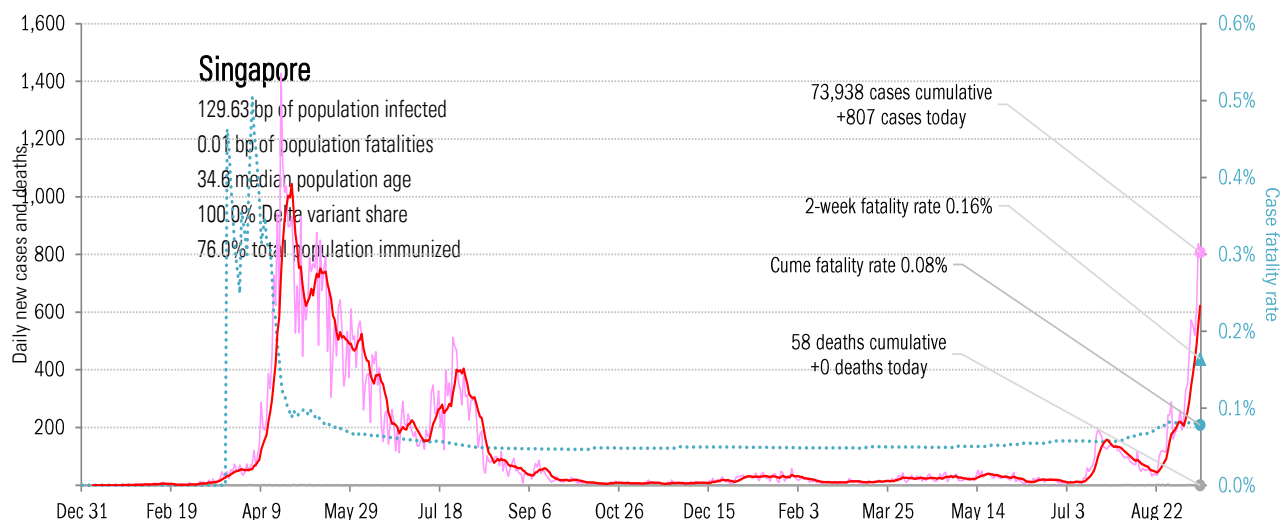
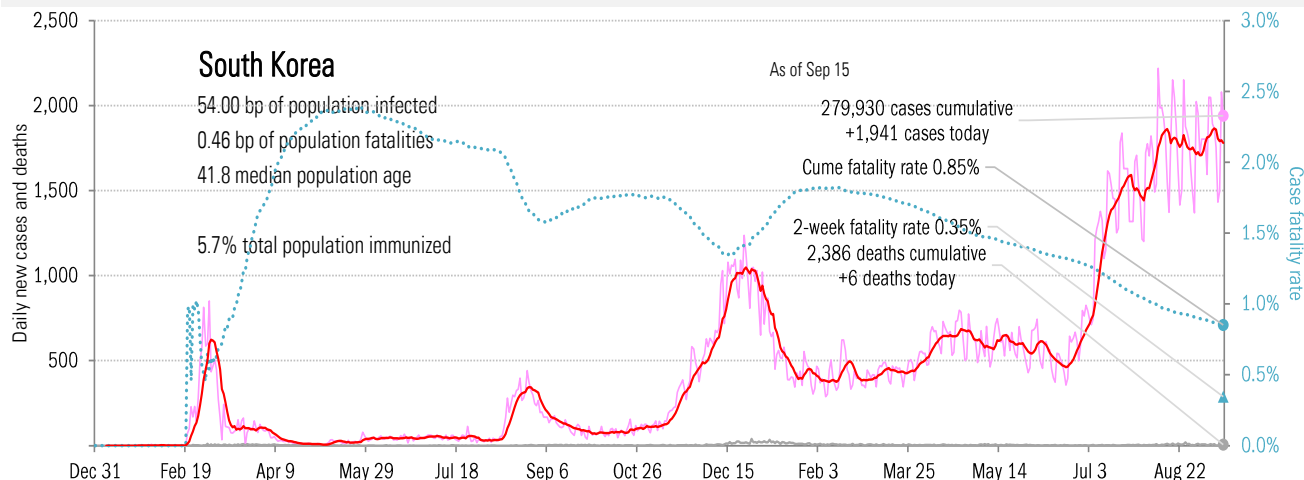
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

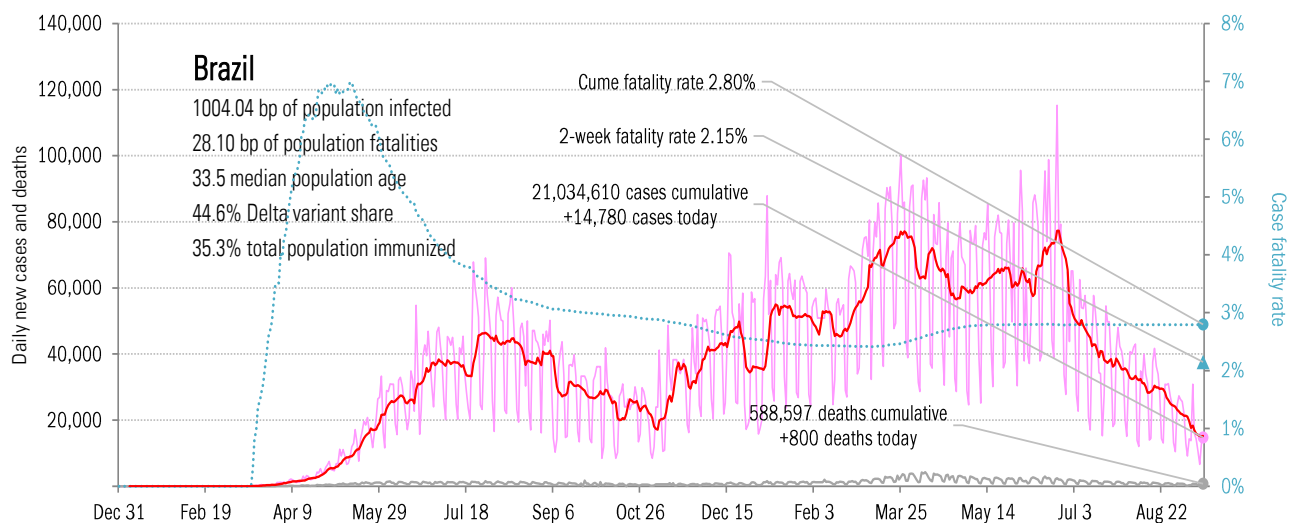
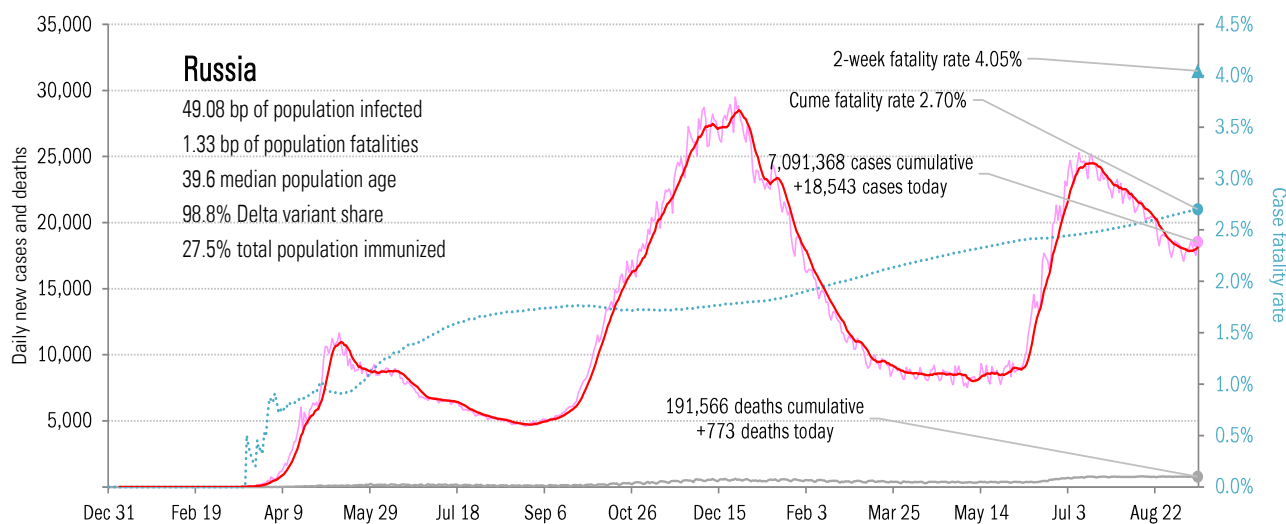
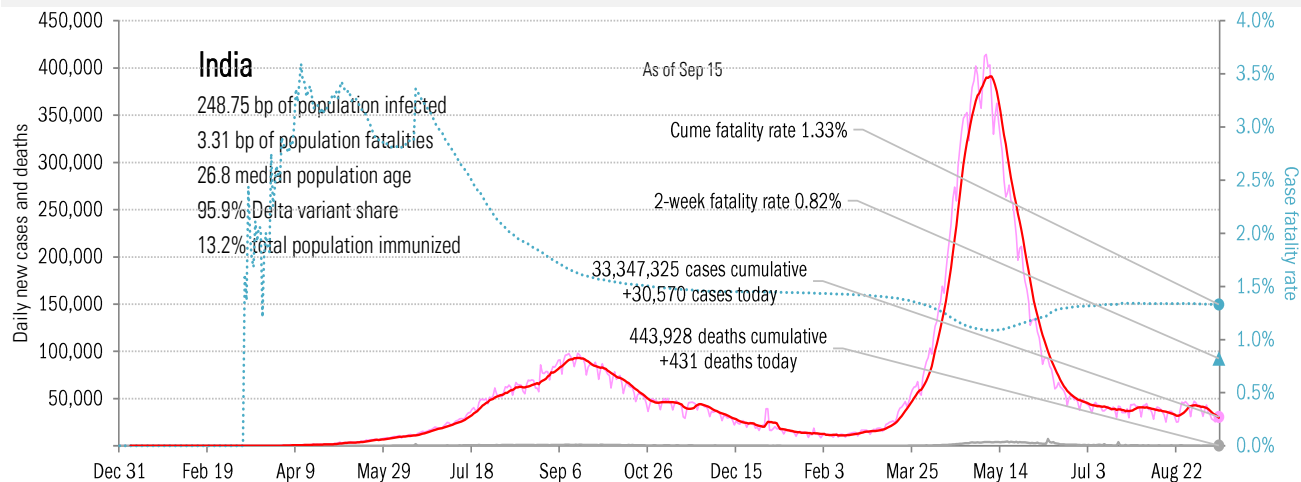
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

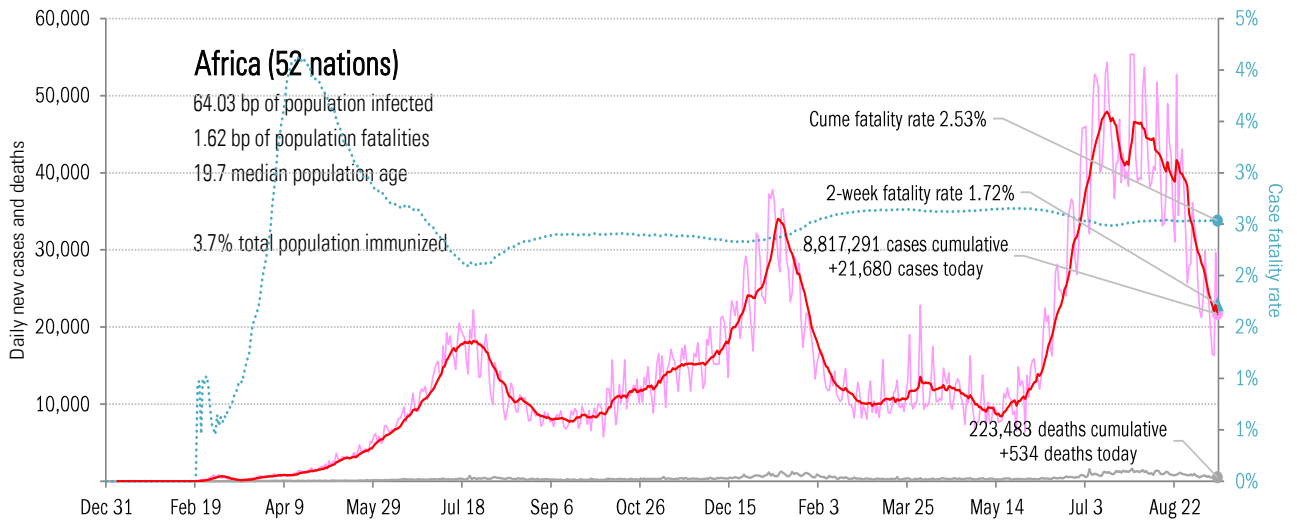
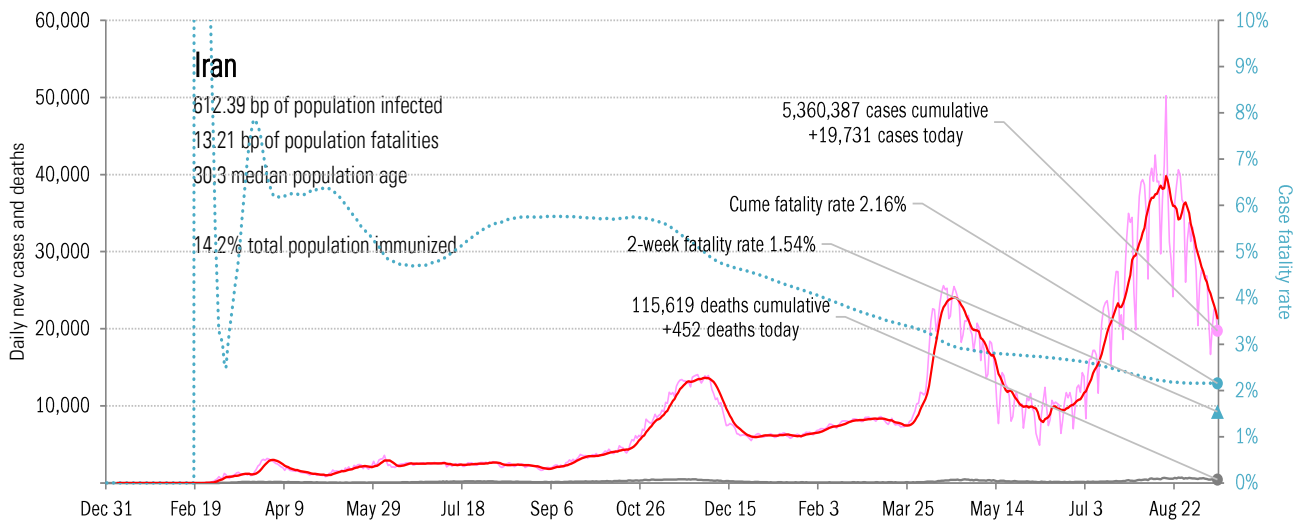
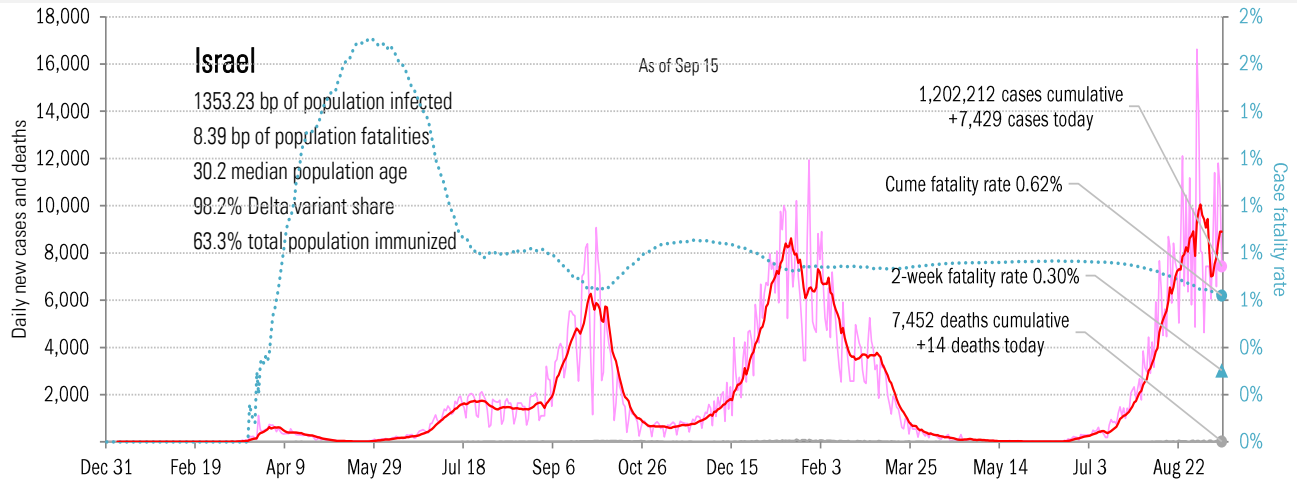
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

Cases: 7-day average and daily Deaths: Daily

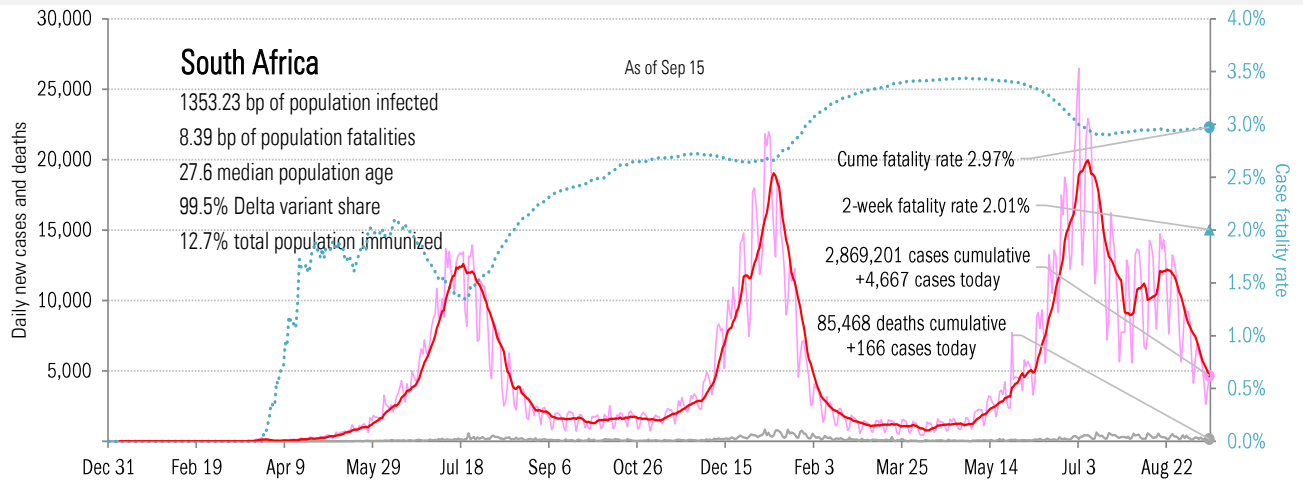


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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