

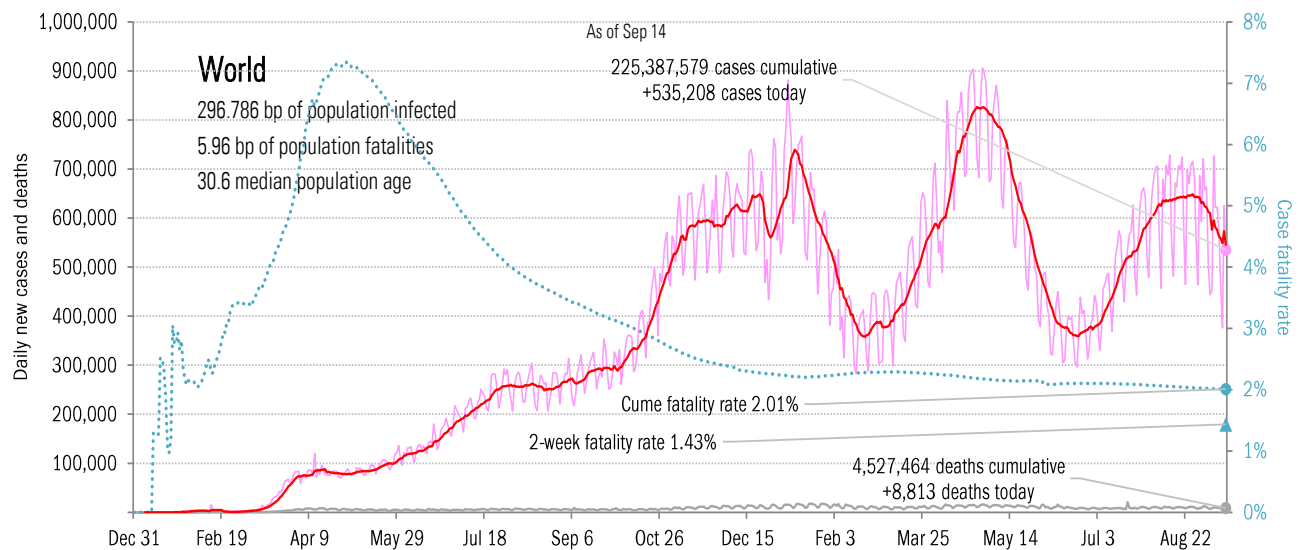
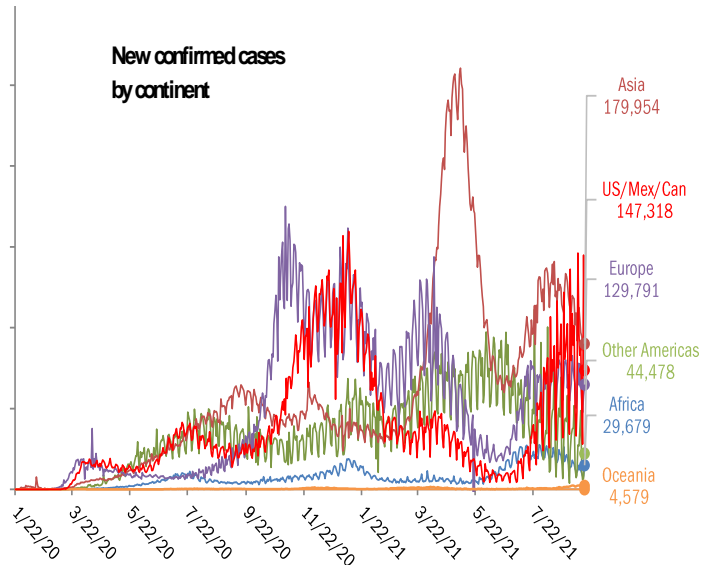
## Data Insights: Covid-2019 Monitor

Wednesday, September 15, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+143,304	United States	+1,820
Turkey	+27,802	Russia	+762
India	+27,176	Brazil	+731
United Kingdom	+26,763	Malaysia	+463
Iran	+22,329	Iran	+408
Philippines	+17,995	South Africa	+300
Russia	+17,529	India	+284
Malaysia	+15,669	Turkey	+276
France	+14,456	Vietnam	+276
Brazil	+13,406	Indonesia	+250
<b>+326,429</b>		<b>+5,570</b>	
World +535,208		World +8,813	
Top ten 61%		Top ten 63%	



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)

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# The US scorecard

Cases: 7-day average and daily Deaths: Daily

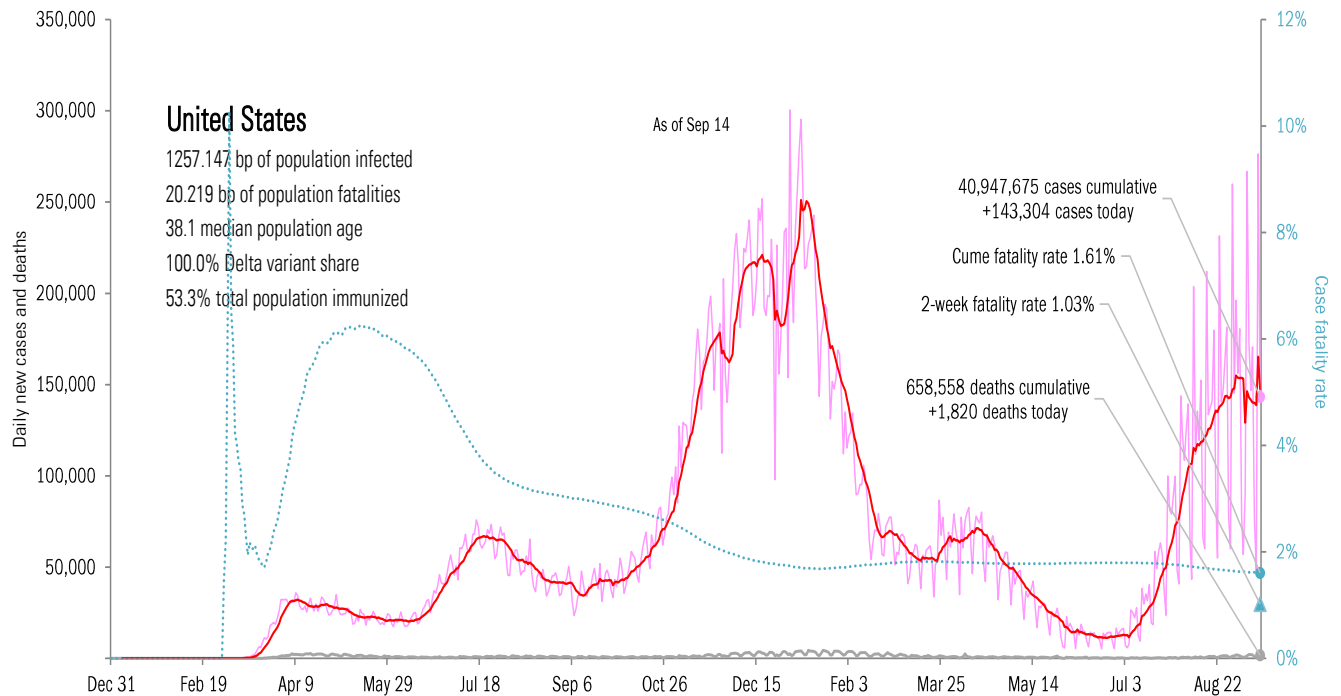
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
TX	+27,527		GA	+128		PA	+68		CA	4,497,470		CA	67,298		TX	340,899		GA	90%	AL	100%
CA	+8,037		TN	+127		GA	+50		TX	3,870,934		TX	60,423		FL	295,622		RI	88%	GA	97%
GA	+7,327		MO	+122		KY	+42		FL	3,035,904		NY	54,693		CA	289,365		NV	86%	AR	93%
CH	+7,325		AZ	+117		MN	+22		NY	2,345,068		FL	43,883		NY	151,232		FL	83%	TX	92%
TN	+5,089		CH	+99		ID	+16		IL	1,578,198		PA	28,651		GA	145,019		SC	83%	MS	92%
NC	+4,760		TX	+93		MA	+14		GA	1,507,503		NJ	27,101		CH	103,728		MA	83%	KY	90%
IL	+4,660		IN	+92		DE	+13		PA	1,354,451		IL	26,840		KY	101,889		MD	82%	FL	89%
LA	+4,650		MS	+85		SD	+10		CH	1,311,518		GA	24,028		PA	101,691		PA	82%	ID	89%
MN	+4,598		PA	+83		NM	+9		NC	1,308,150		MI	21,854		IL	96,265		TX	81%	NC	88%
SC	+4,269		CA	+77		FR	+9		TN	1,160,055		CH	21,253		MI	80,235		H	80%	NV	87%
+78,242			+1,023			+253			21,969,251			376,024			1,705,945						
All states	+143,304			+1,820			-1228		All states	40,947,675			658,558			3,021,133		All states	70%		67%
Top ten	55%			56%			-21%		Top ten	54%			57%			56%		Median	75%		79%

Some states not reporting

## Five most improved US states

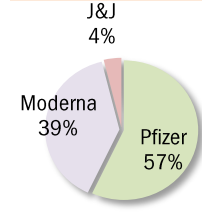
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TN	-25,164	NC	-114	CH	-116	MS	+50 bp
NC	-19,130	SC	-114	VA	-101	TN	+40 bp
SC	-14,007	IL	-66	SC	-67	WA	+40 bp
CA	-8,637	CA	-44	NV	-64	NE	+30 bp
GA	-8,575	KY	-44	TN	-53	WY	+30 bp



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	392,177,632		+0.636 million		US	53.3%	62.4%	
	One dose	% Pop	Immune	% pop	New immune today	UK	64.7%	71.1%
Total population	215,073,840	64%	183,816,105	55%	+0.310 million	France	63.3%	73.4%
Age 12 to 17	13,180,806	55%	10,406,994	44%	+0.057 million	Spain	75.8%	79.7%
Age 18 to 64	148,418,294	73%	125,871,158	62%	+0.229 million	Germany	61.9%	66.1%
Age 65 and over	52,429,586	96%	46,685,511	85%	+0.024 million	Italy	64.5%	72.8%
						Australia	34.3%	55.2%
						Israel	63.3%	68.9%
						Canada	68.7%	74.7%
						Japan	52.4%	64.7%
						Africa	3.7%	5.8%
						India	13.0%	41.0%
						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 **153 days** by Feb 13, 2022  
 66.8% of population >18 immunized  
 14.0% previously tested positive  
**80.8%** vs 60% adult herd immunity

As of Sep 14

Global data differs from sources, timing

AK
56.0%
48.5%

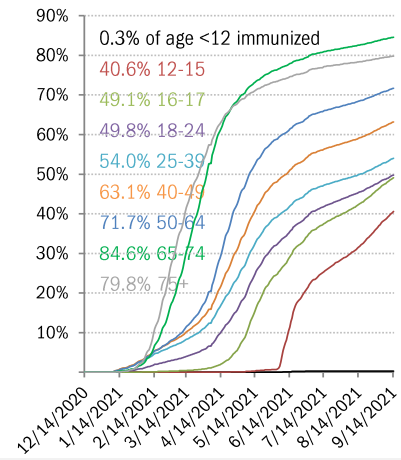
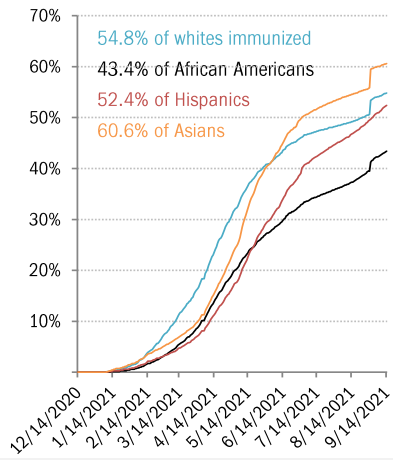
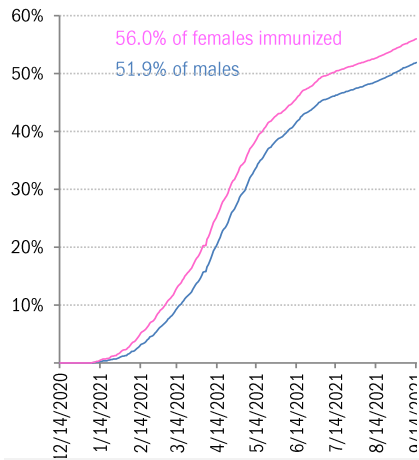
WI
59.9%
55.1%

ME
72.8%
67.0%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
69.8%	45.6%	53.5%	49.7%	62.7%	67.3%	55.9%	69.3%	76.9%	68.3%	
61.7%	40.3%	47.2%	42.7%	57.0%	52.3%	51.3%	61.9%	68.7%	60.7%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
65.5%	59.4%	47.0%	57.8%	57.2%	51.2%	53.4%	70.8%	71.3%	76.4%	
59.3%	49.3%	40.2%	50.3%	52.8%	47.2%	49.3%	56.4%	62.9%	66.9%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
70.2%	57.6%	64.5%	58.5%	53.8%	59.0%	47.6%	66.7%	69.4%	74.8%	73.3%
57.3%	48.9%	58.1%	53.4%	46.5%	50.2%	40.0%	58.7%	62.8%	67.3%	66.2%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	58.2%	71.3%	58.7%	54.6%	51.4%	57.7%	53.5%	69.0%	65.2%	
	49.8%	61.5%	49.7%	43.9%	43.6%	48.0%	45.2%	58.7%	56.5%	
			OK	LA	MS	AL	GA			
			55.1%	50.6%	48.8%	51.3%	52.8%			
			45.7%	43.5%	41.3%	40.4%	42.8%			
			TX							
			58.5%							
			49.2%							
								FL		PR
								65.6%		77.4%
								55.3%		66.9%

HI
75.7%
56.5%

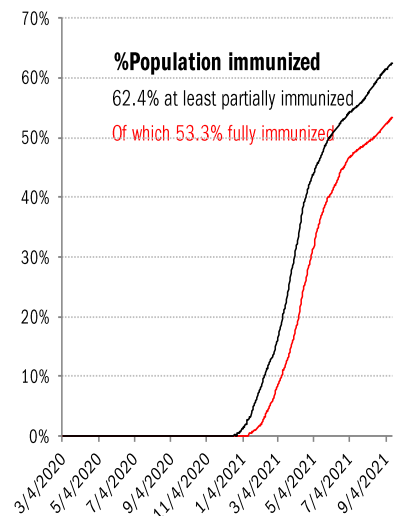
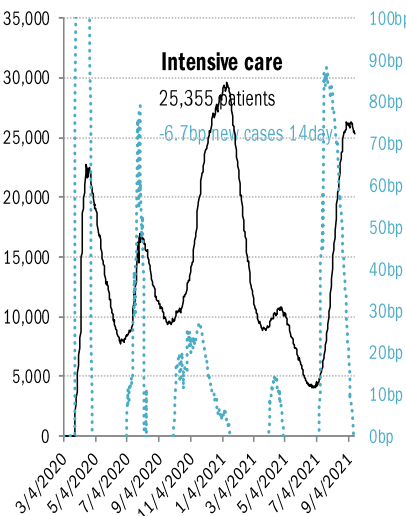
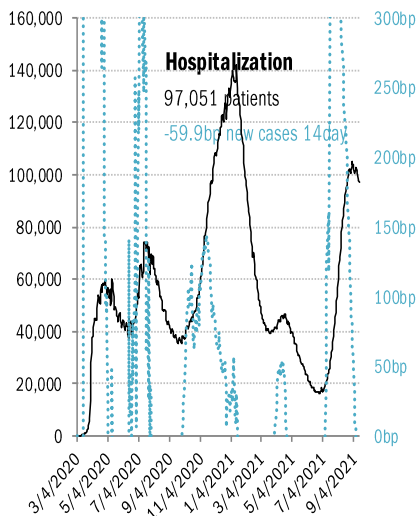
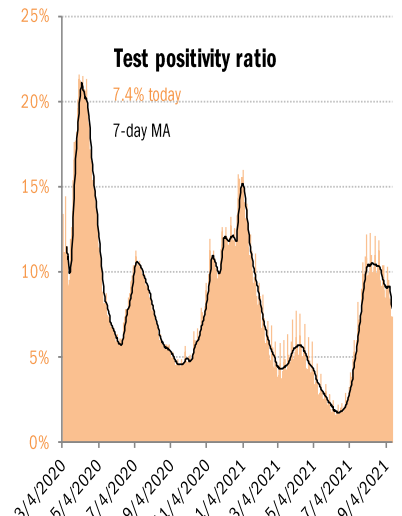
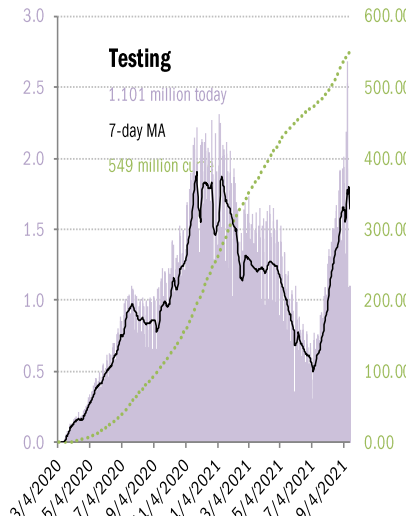
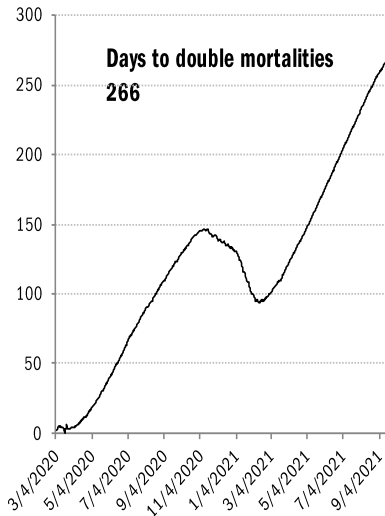
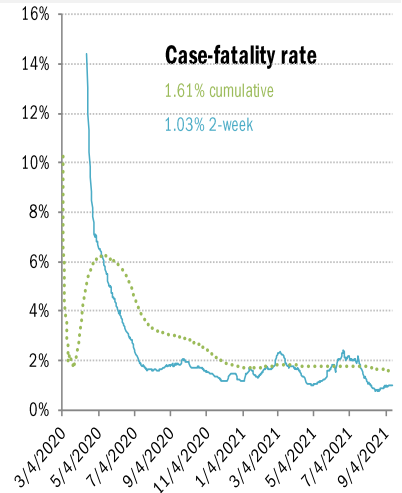
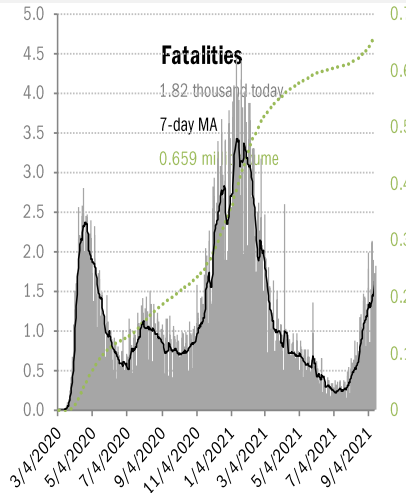
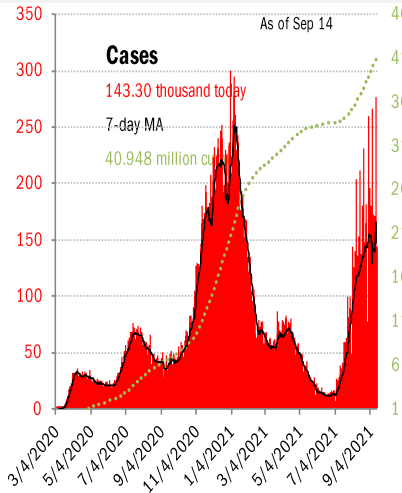
## The demographics of US vaccination



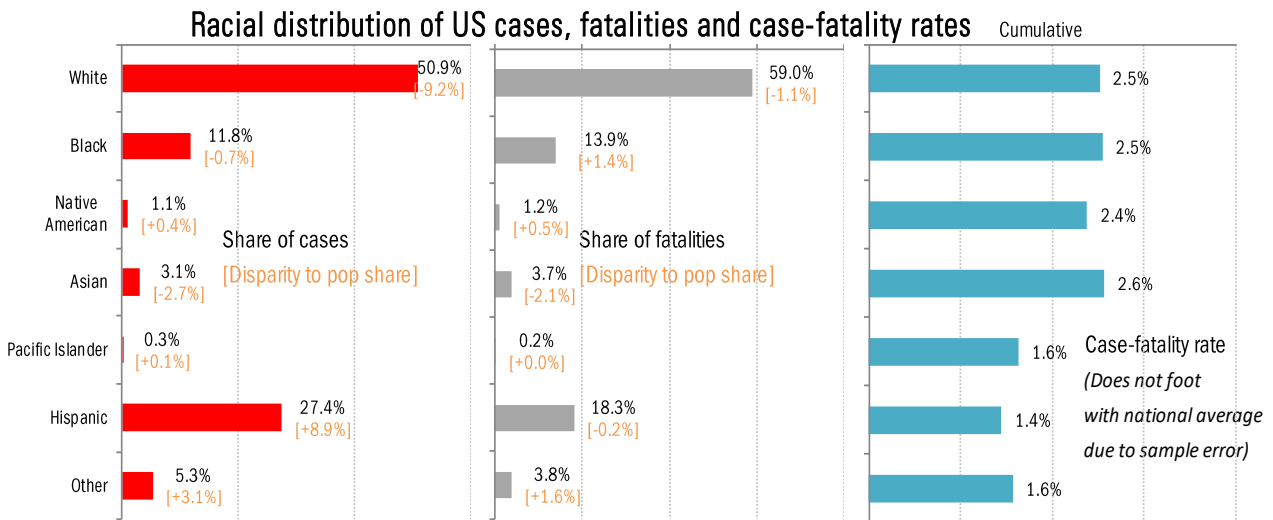
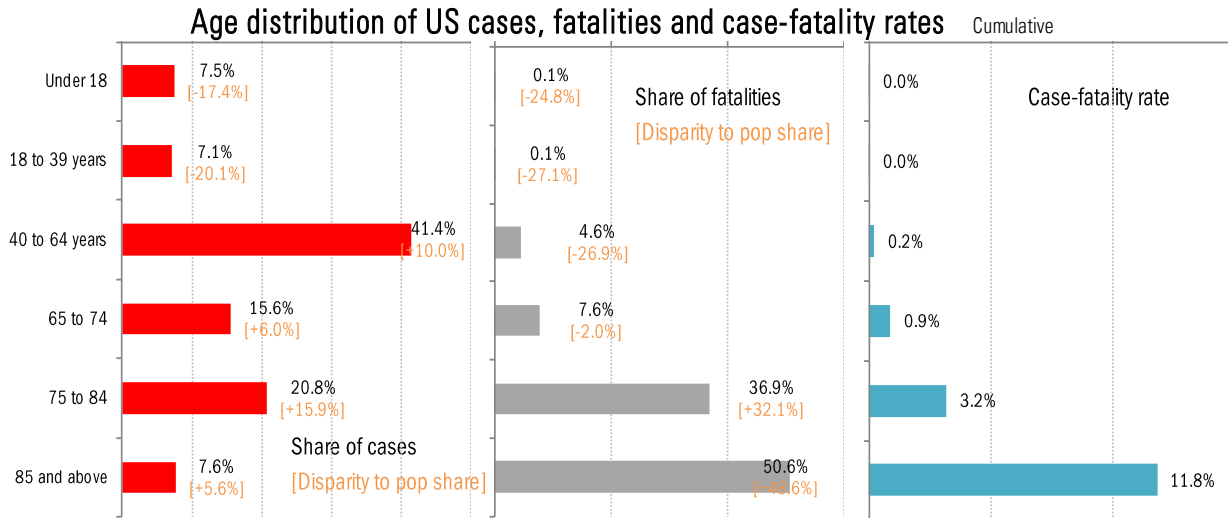
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

# US deep-dive

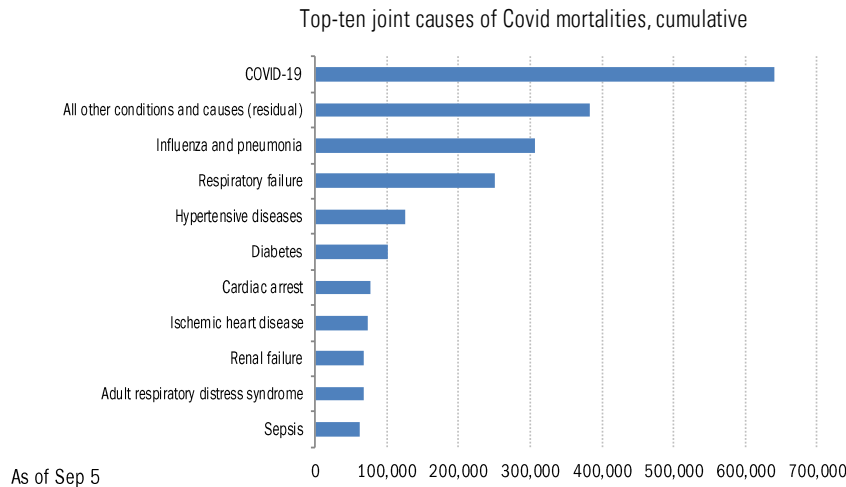
National and state-by-state data do not line up because of different sources



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

[Considerations in boosting COVID-19 vaccine immune responses](#)

Philip R Krause et al.  
*The Lancet*  
September 13, 2021

[Our Most Reliable Pandemic Number Is Losing Meaning](#)

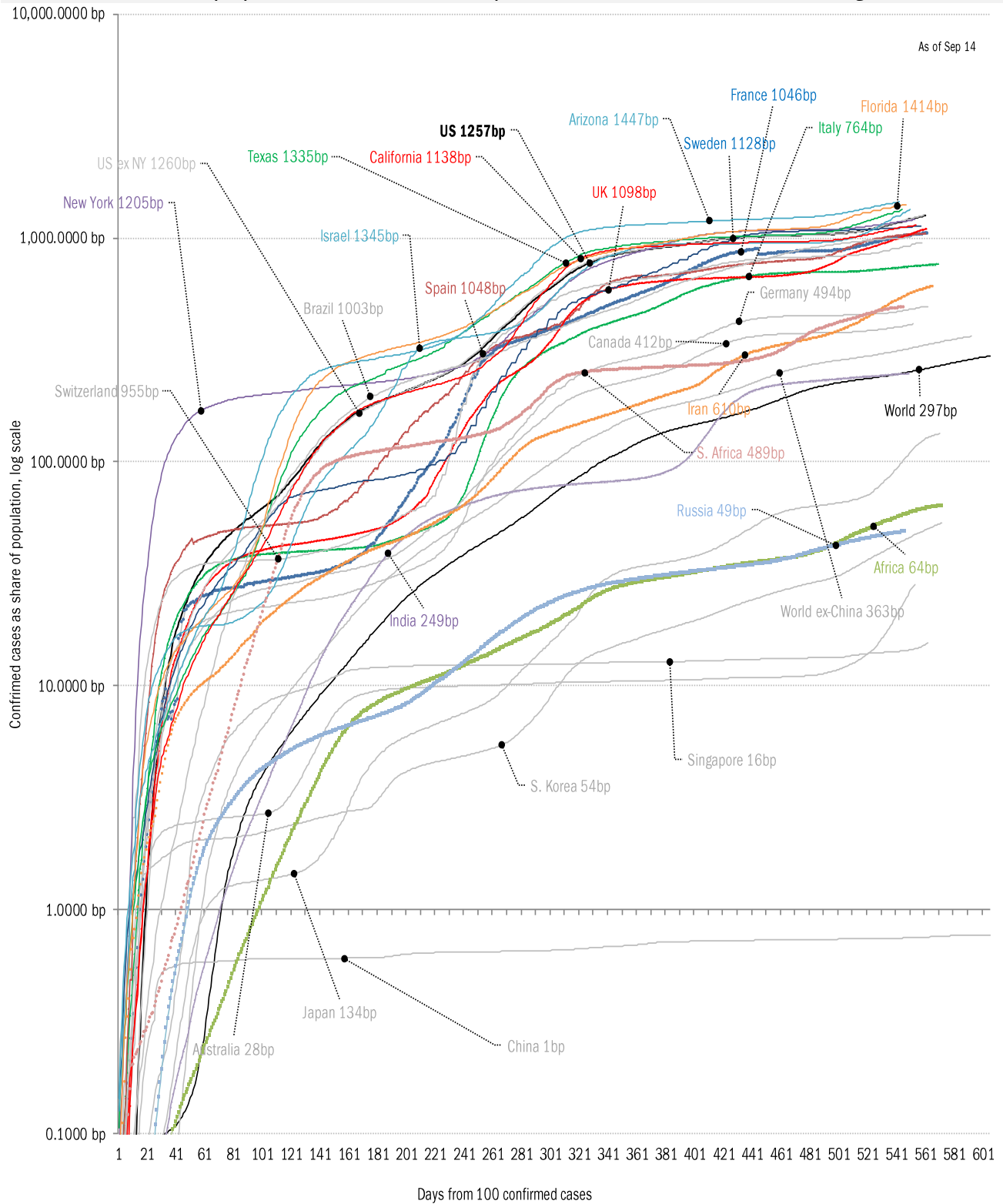
David Zweig  
*The Atlantic*  
September 13, 2021

## Meme of the day



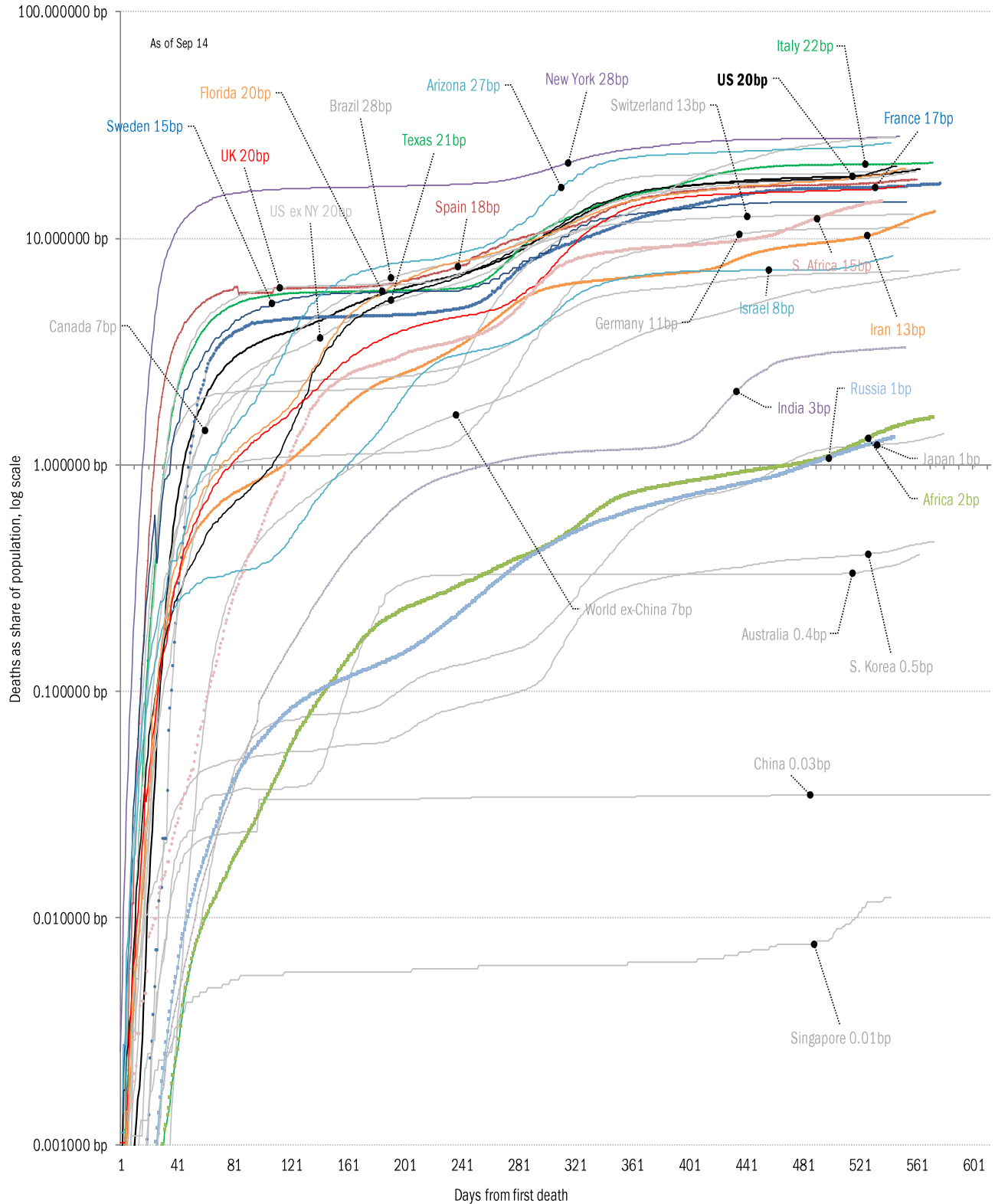
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



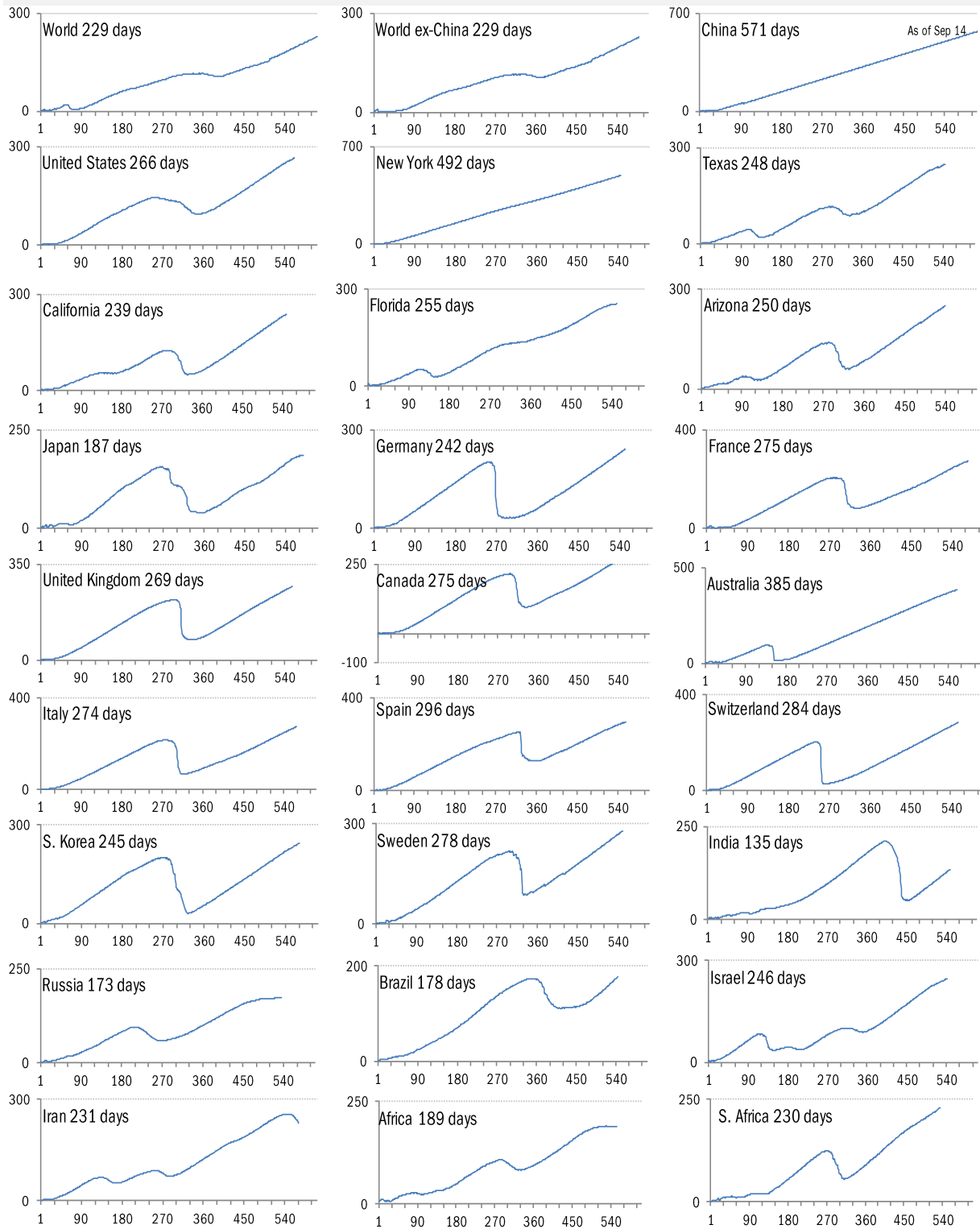
Source: [Johns Hopkins](#), TrendMacro calculations



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

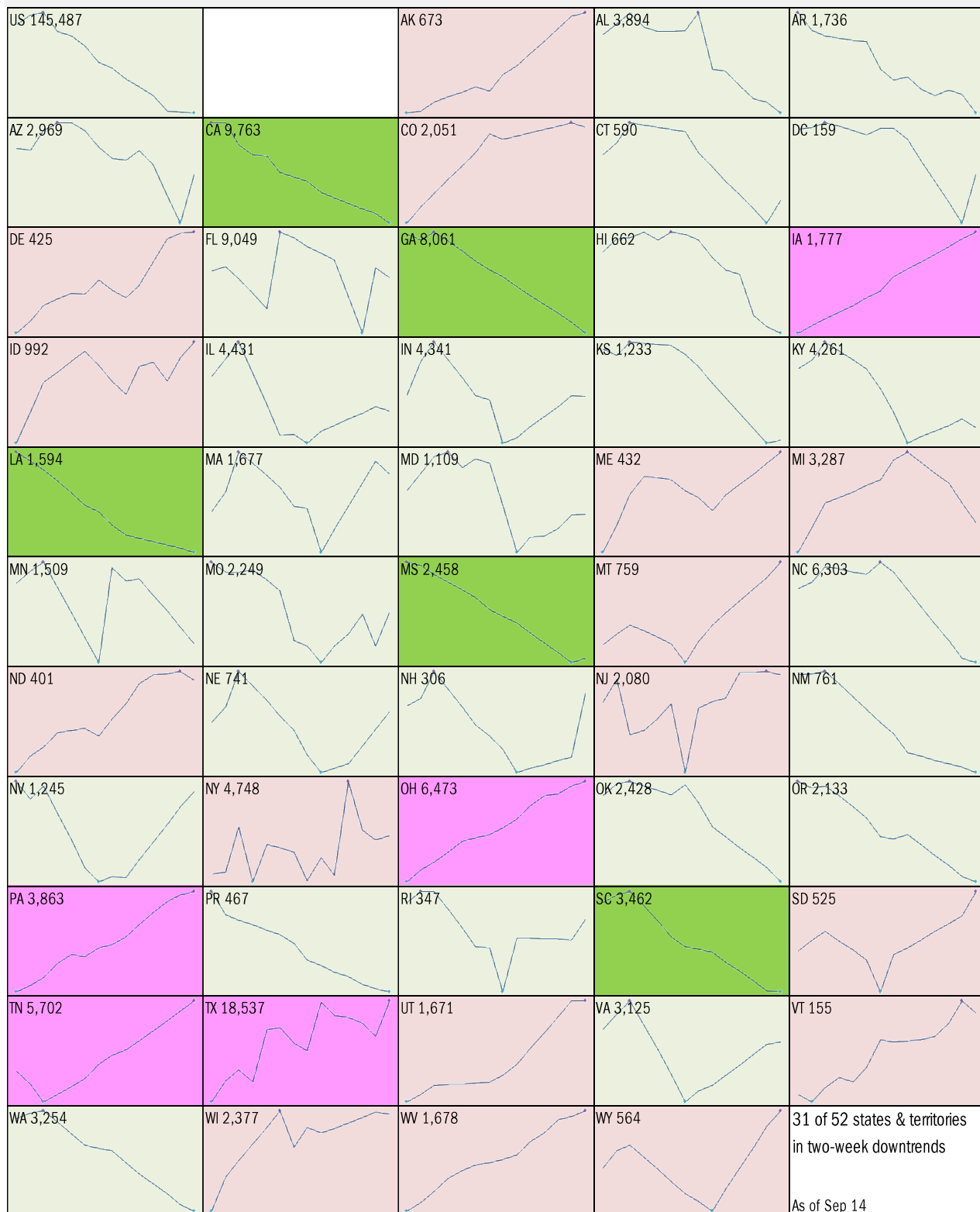
Vertical: days to double deaths Horizontal: days from first death

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

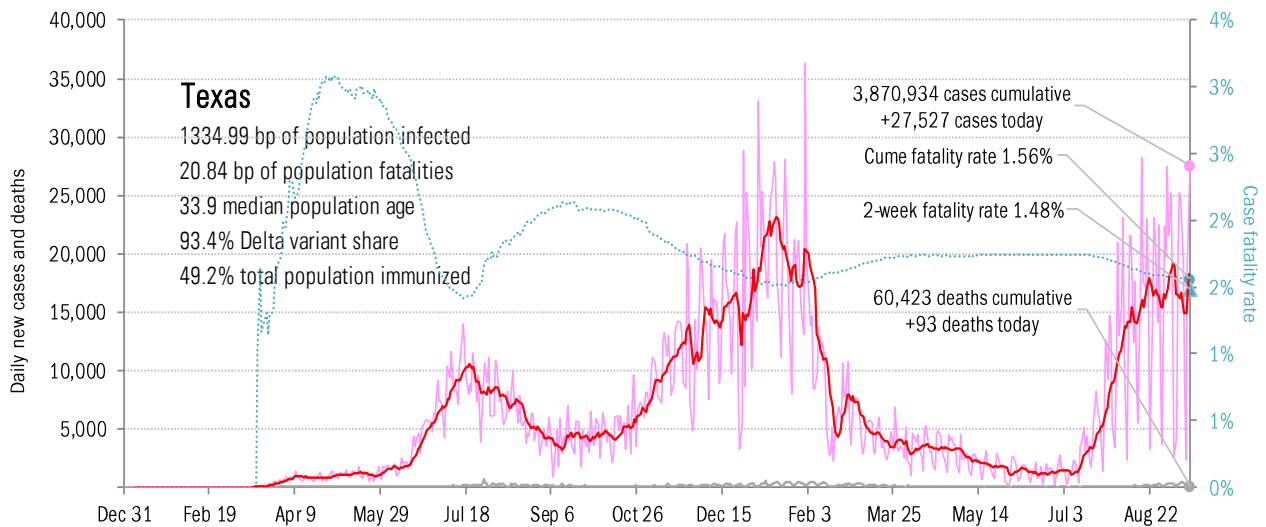
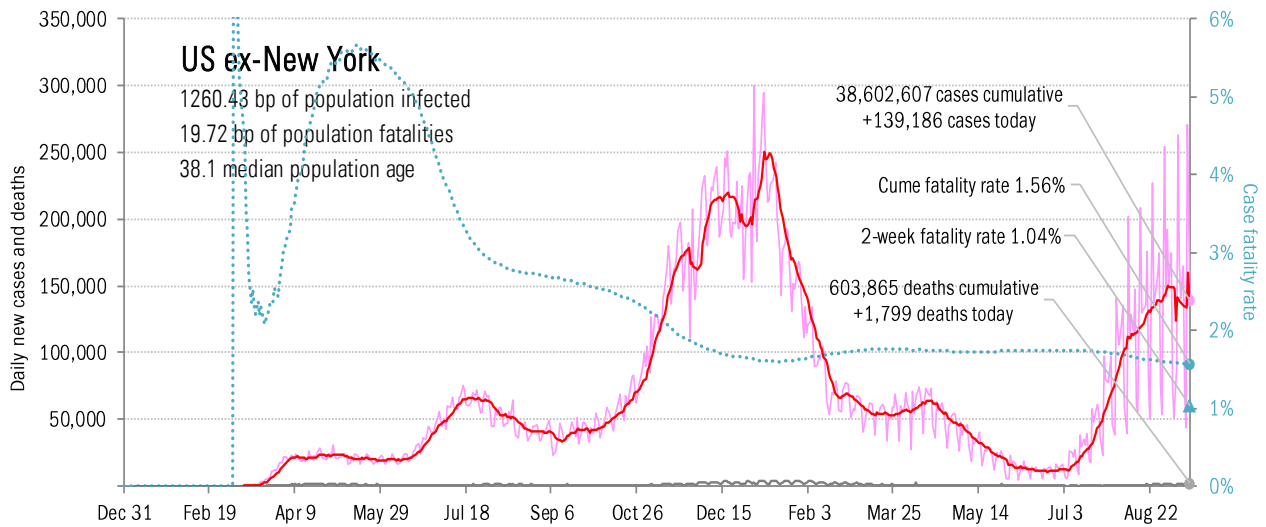
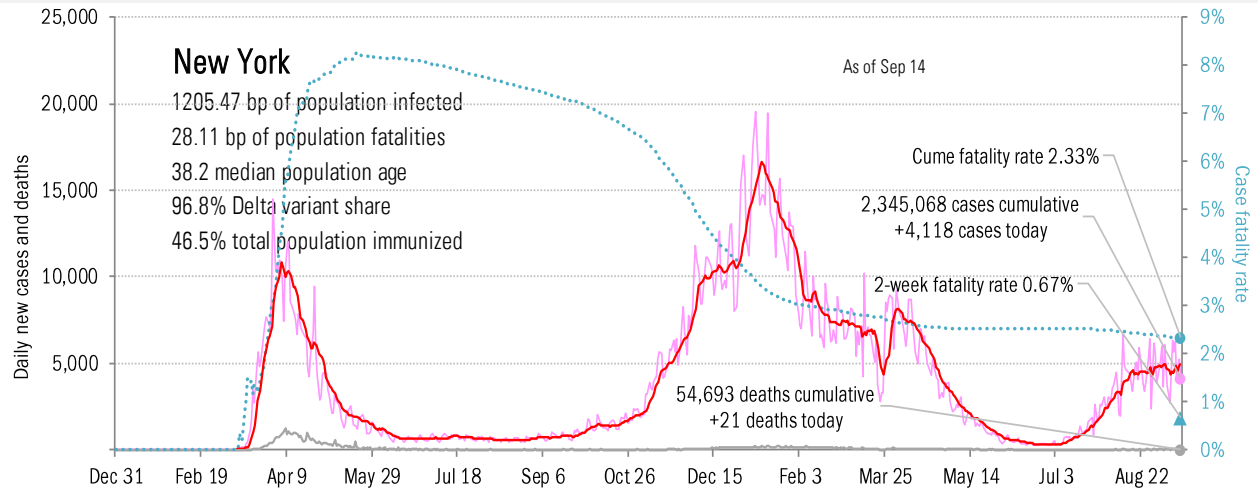
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

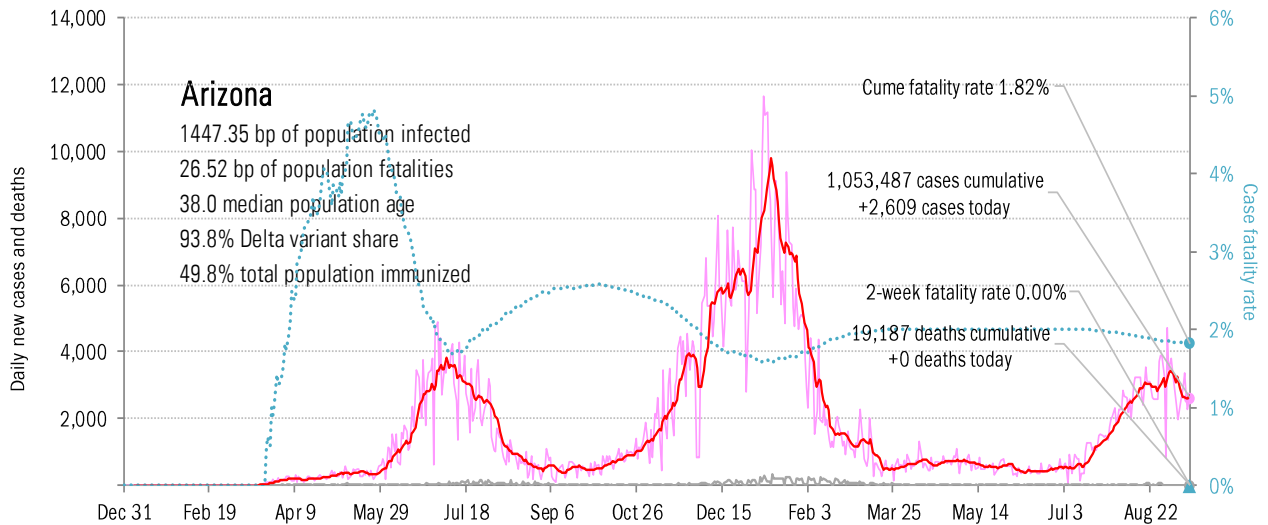
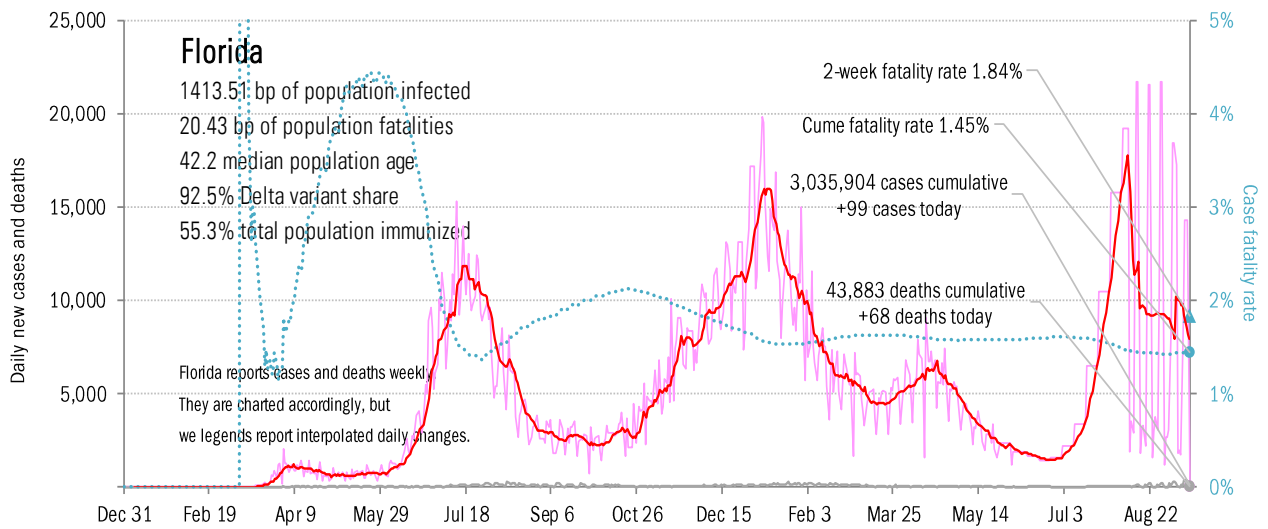
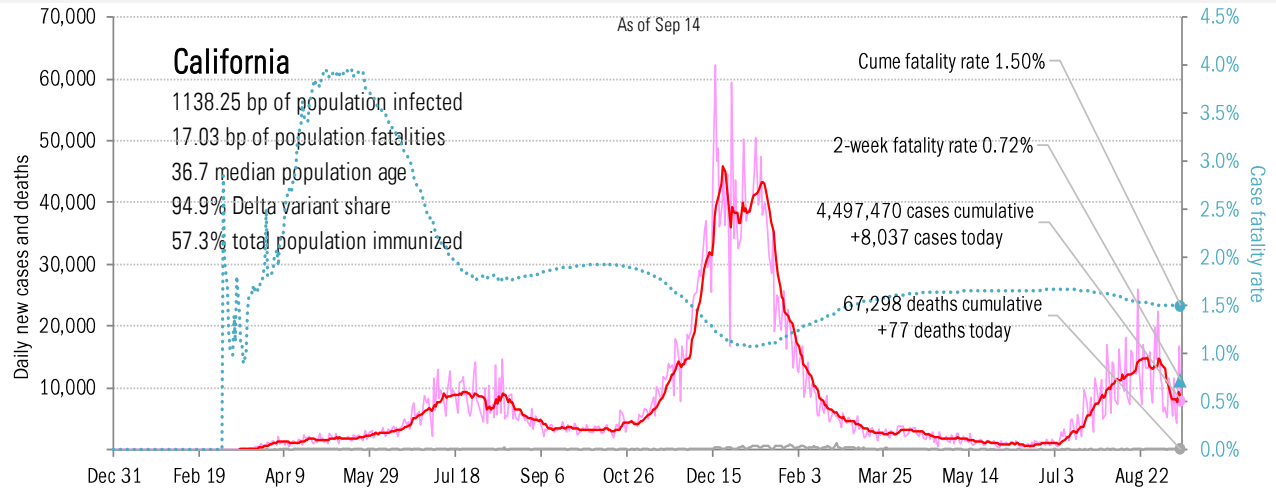
Cases: 7-day average and daily Deaths: Daily



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

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

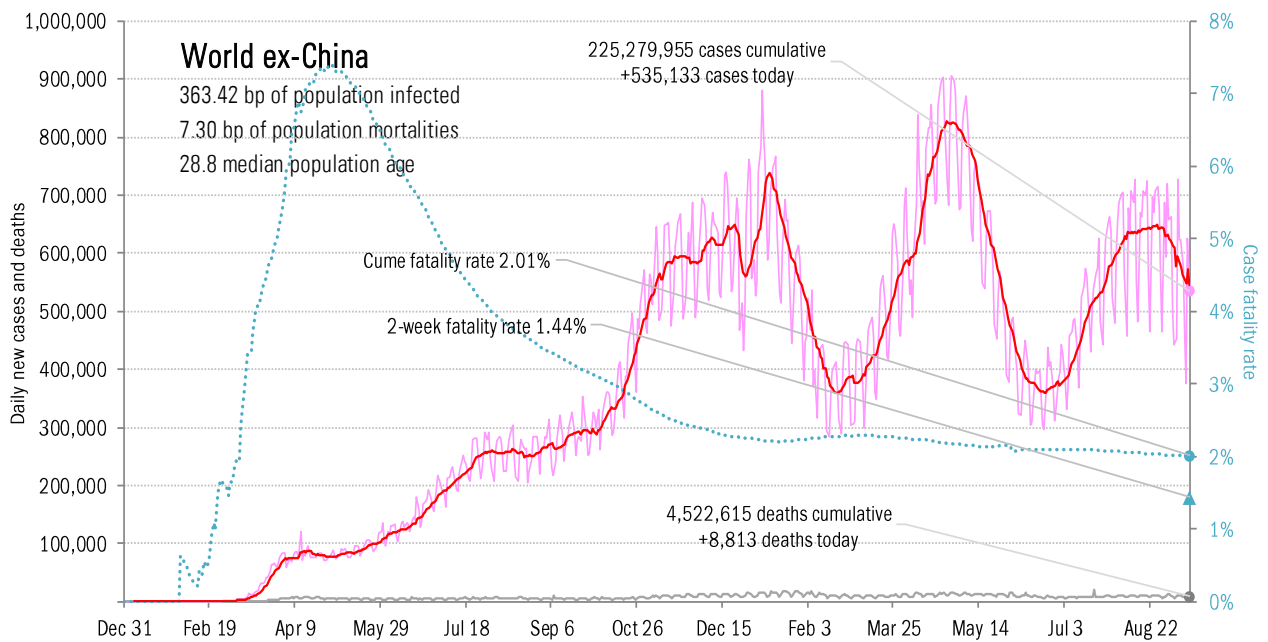
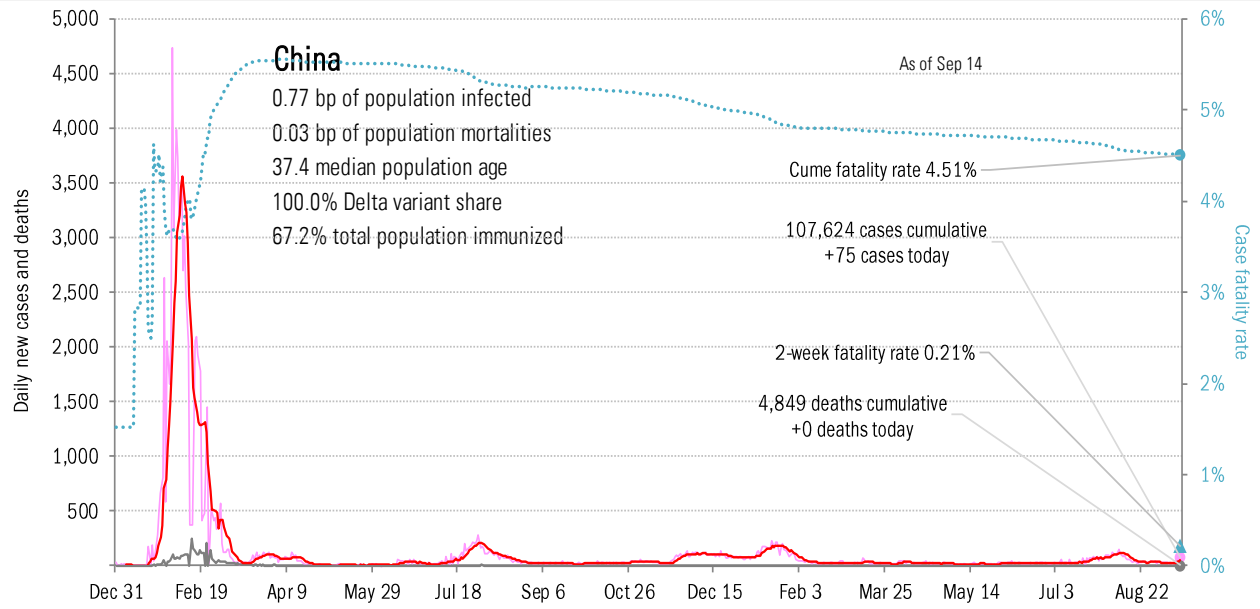
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

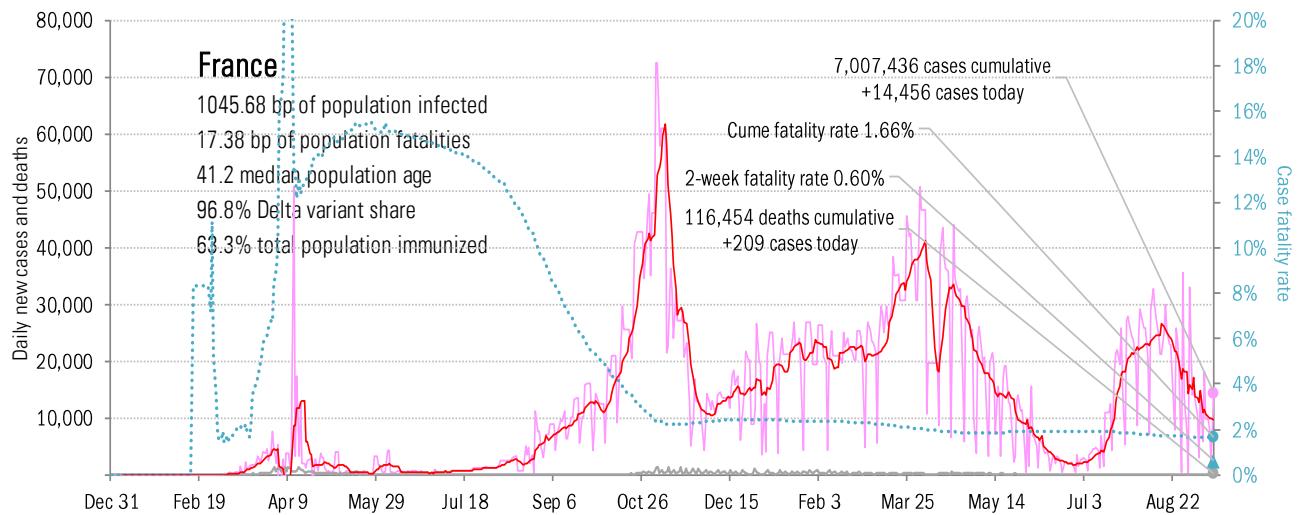
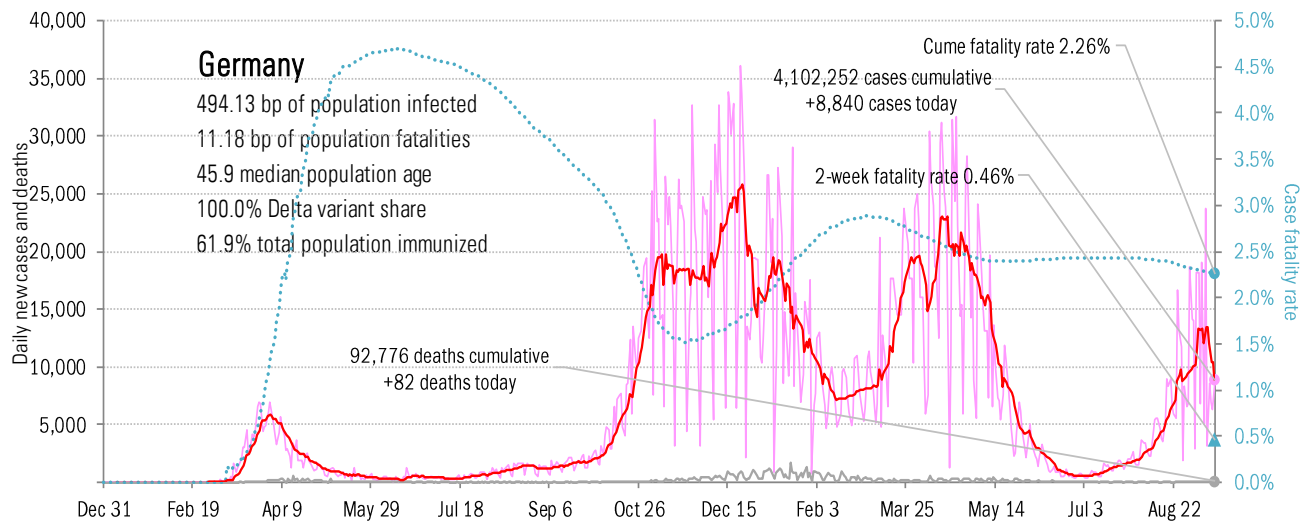
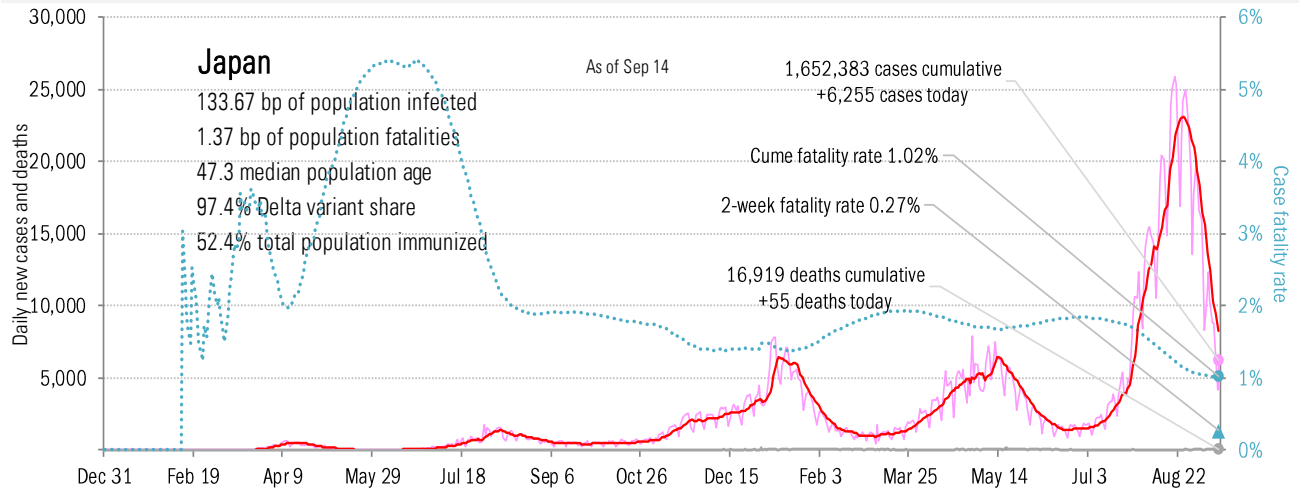
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

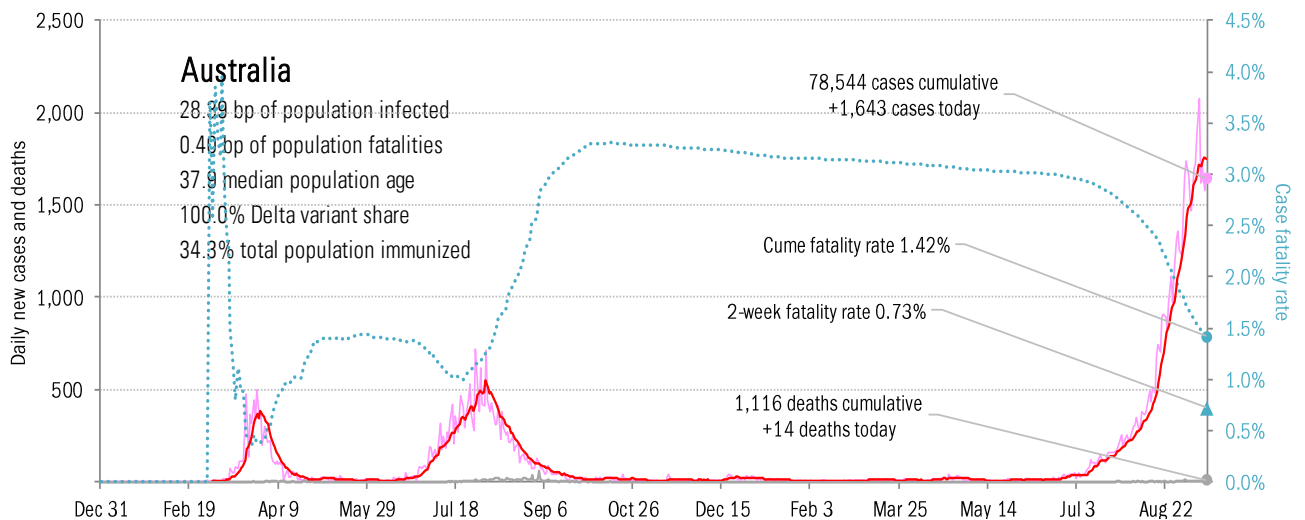
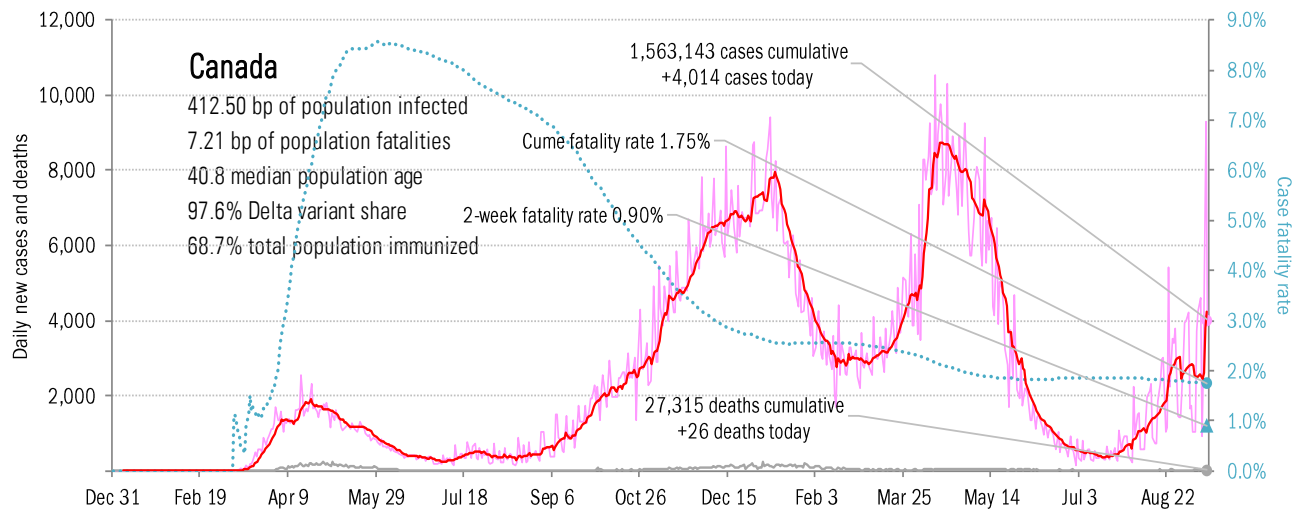
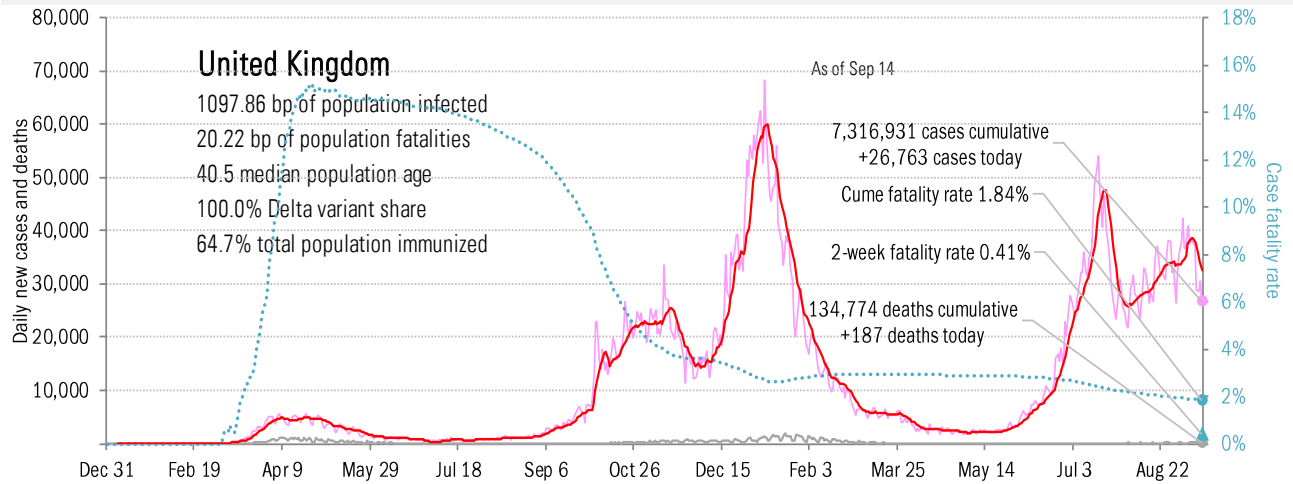
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

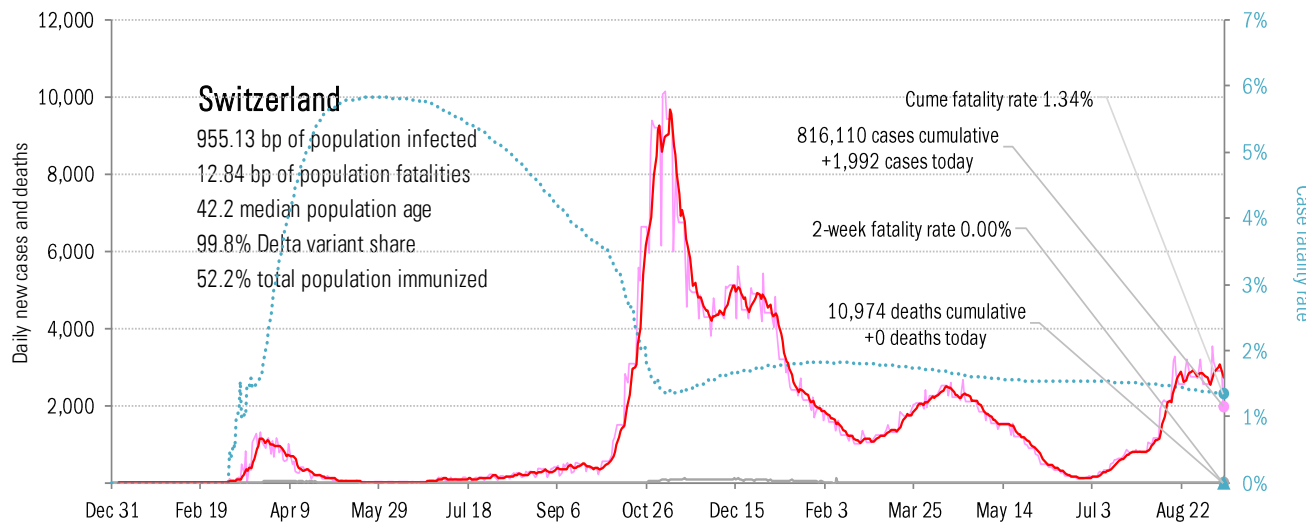
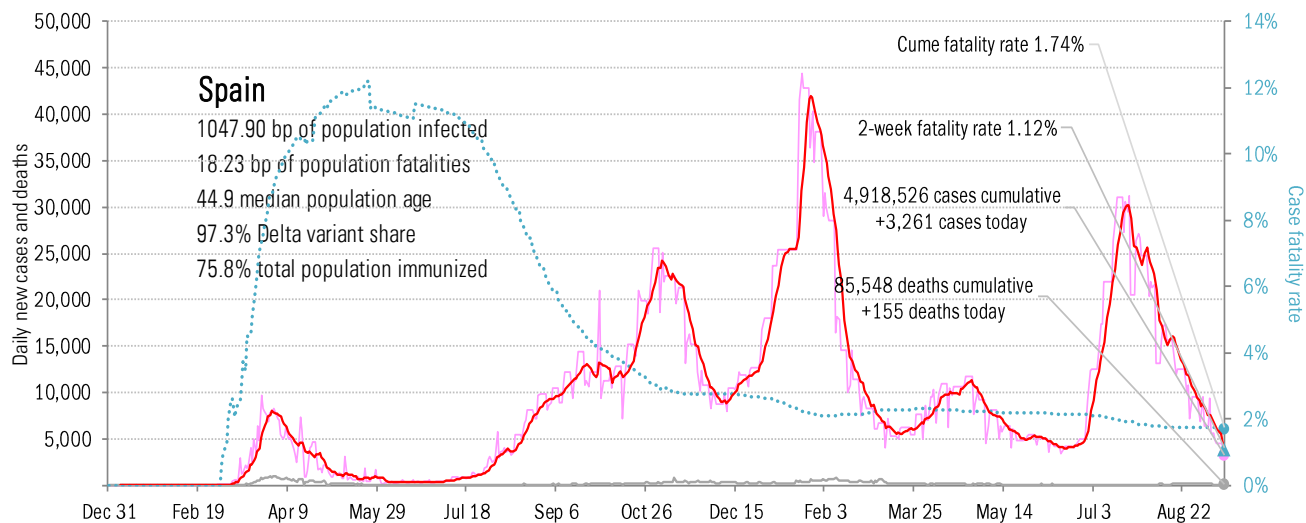
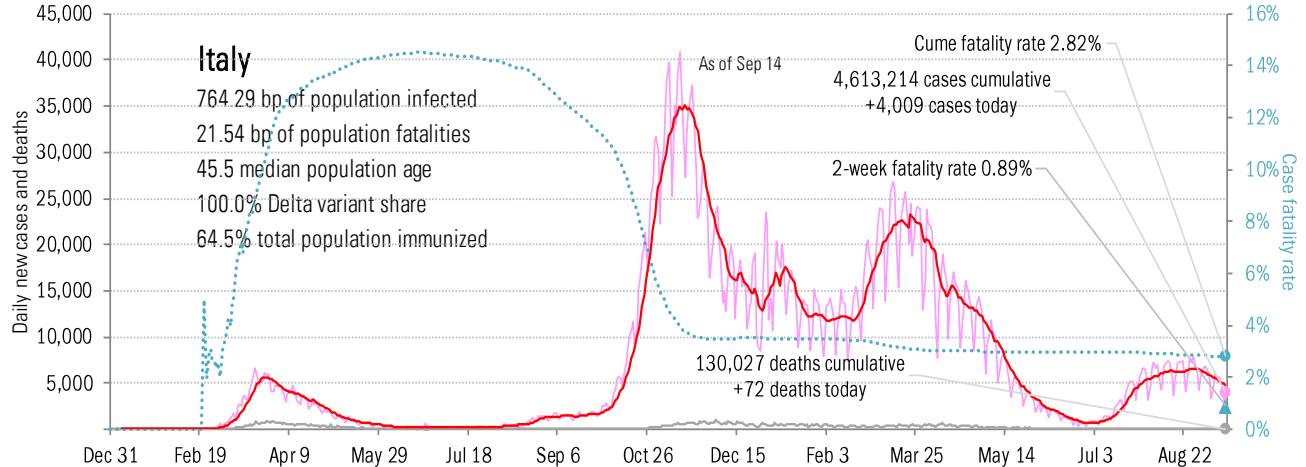


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

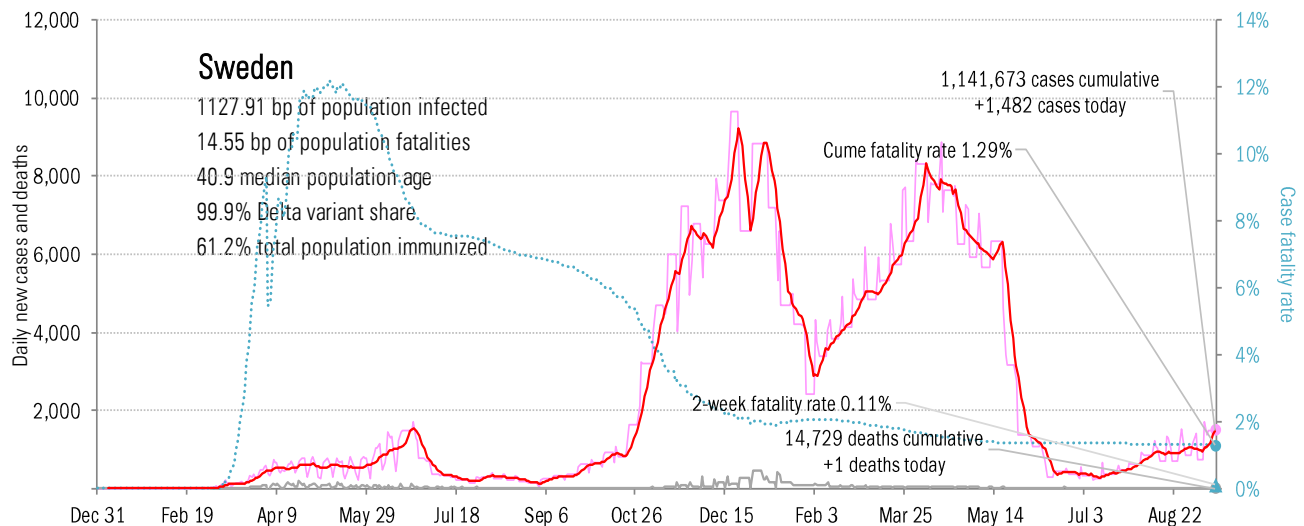
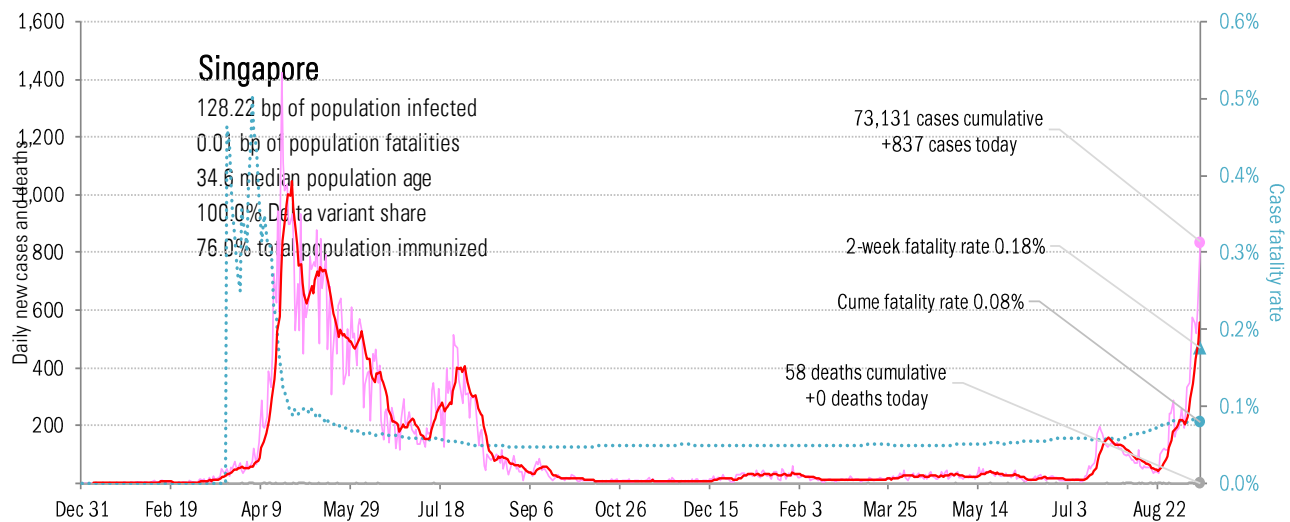
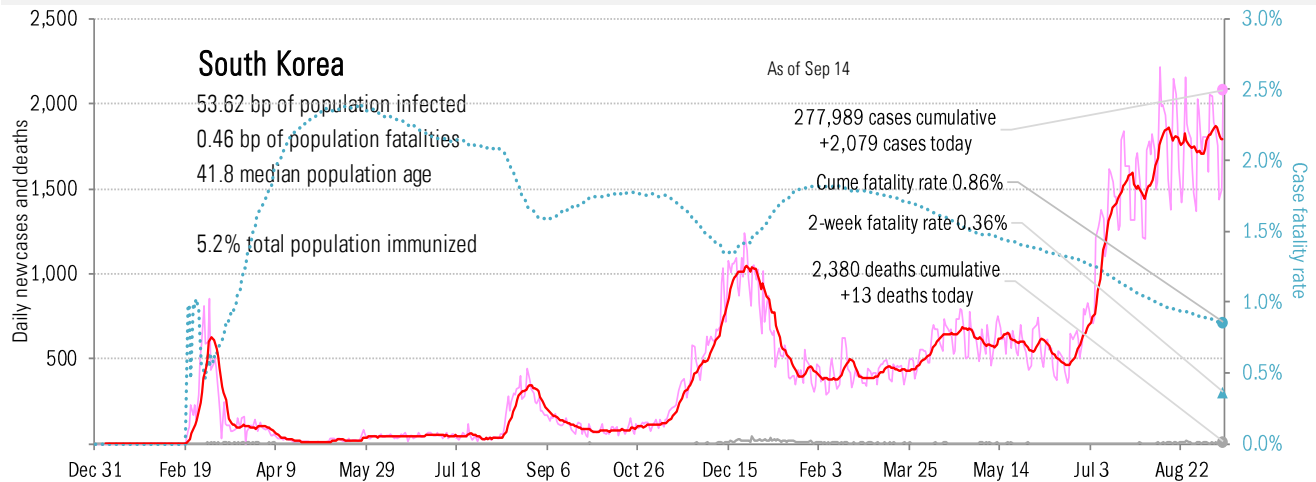
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

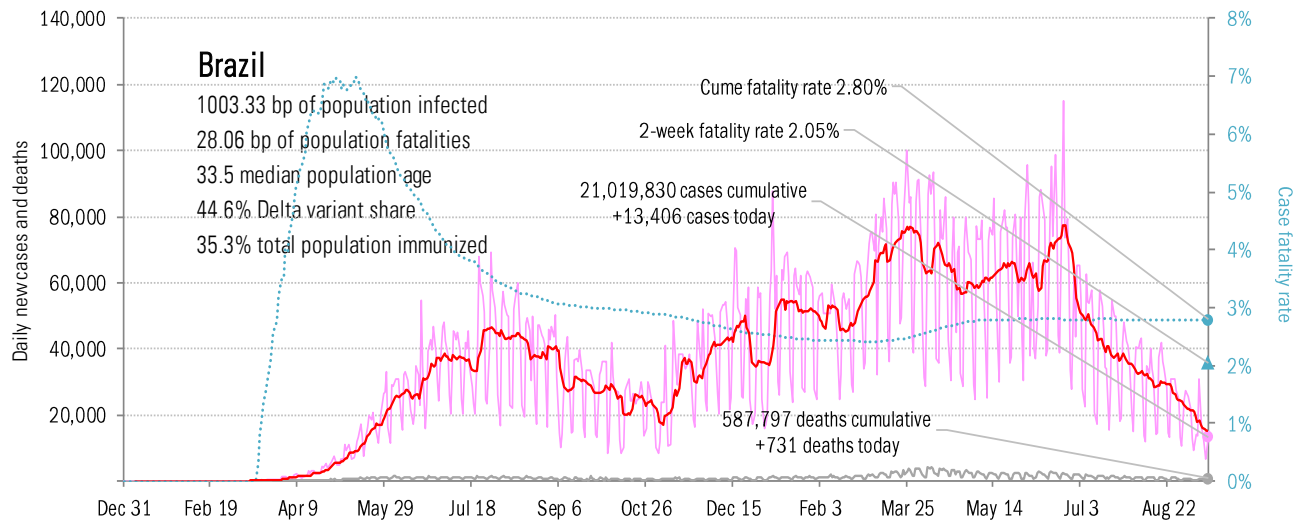
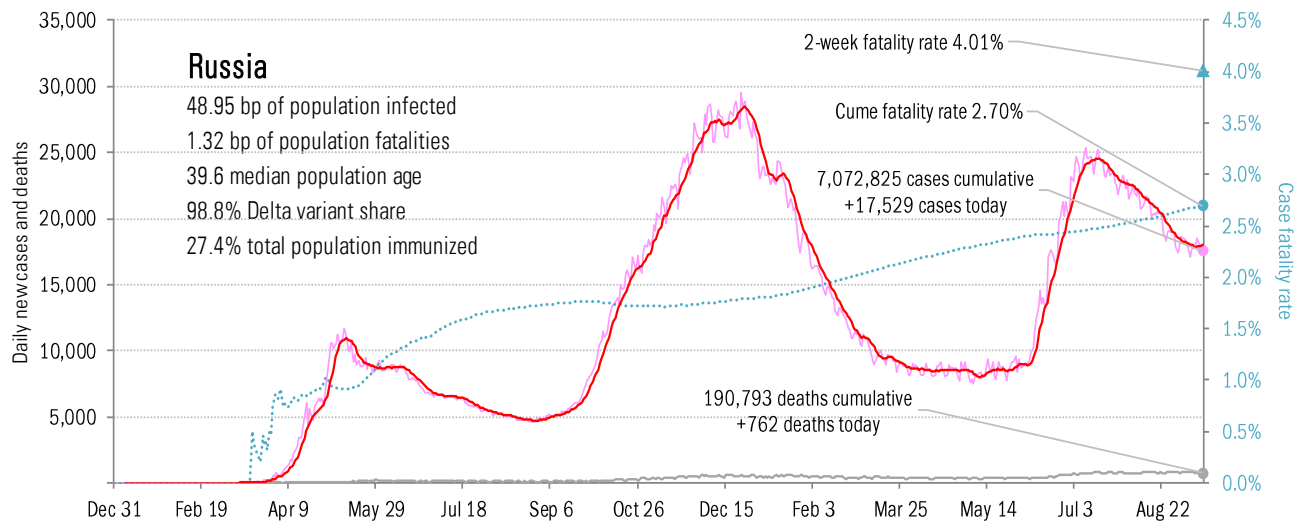
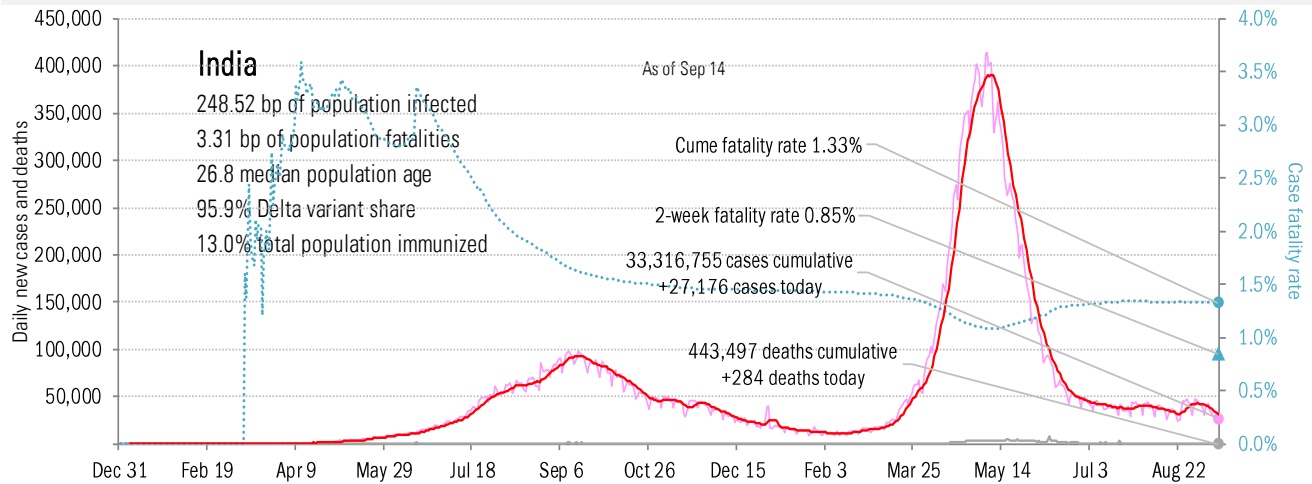
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

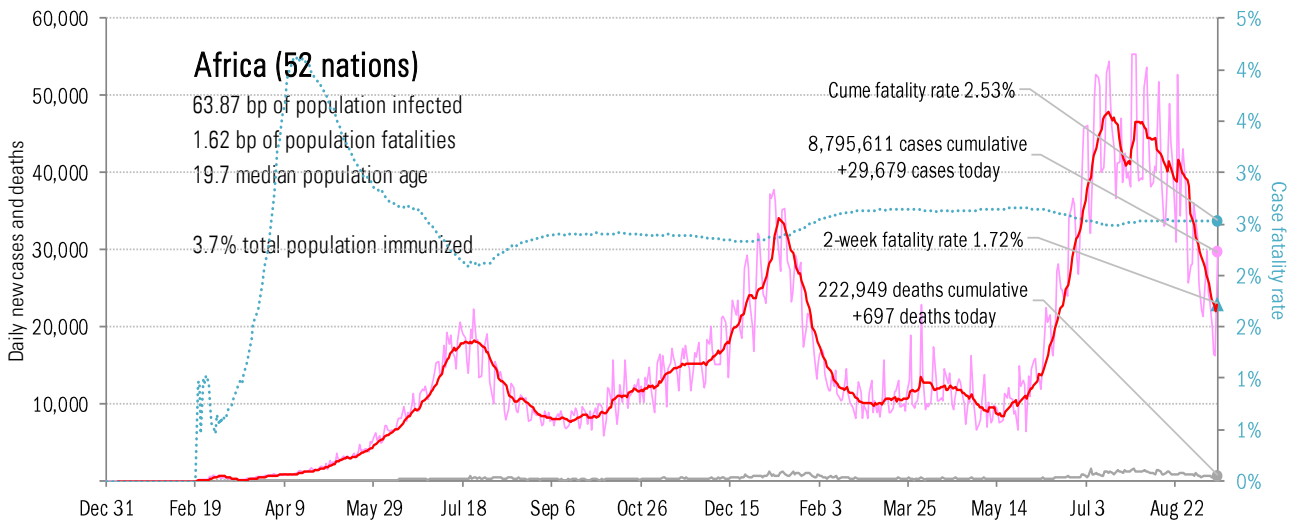
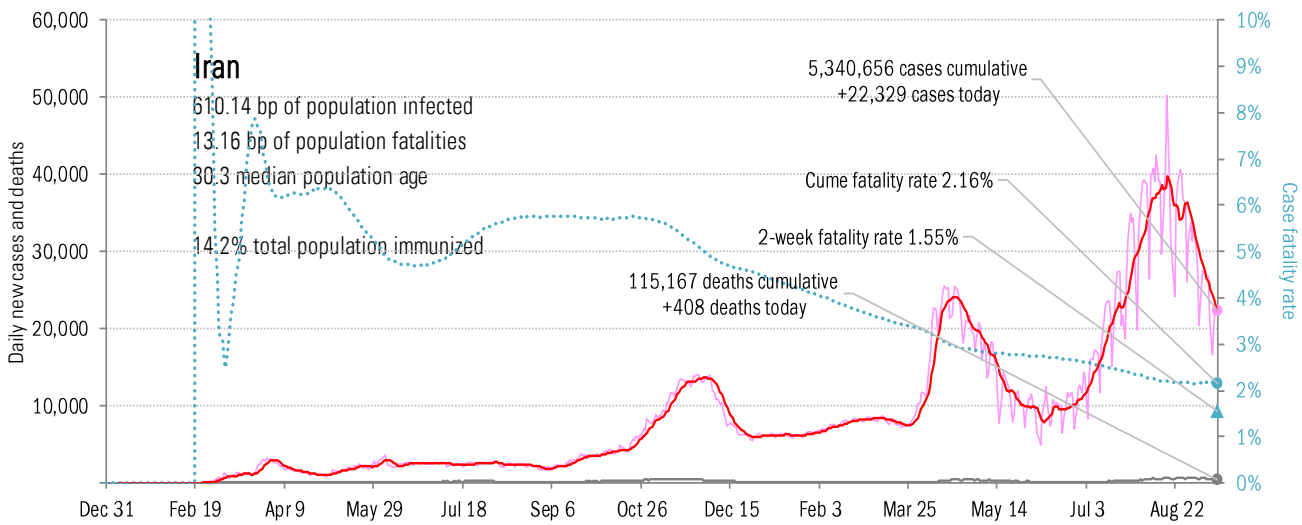
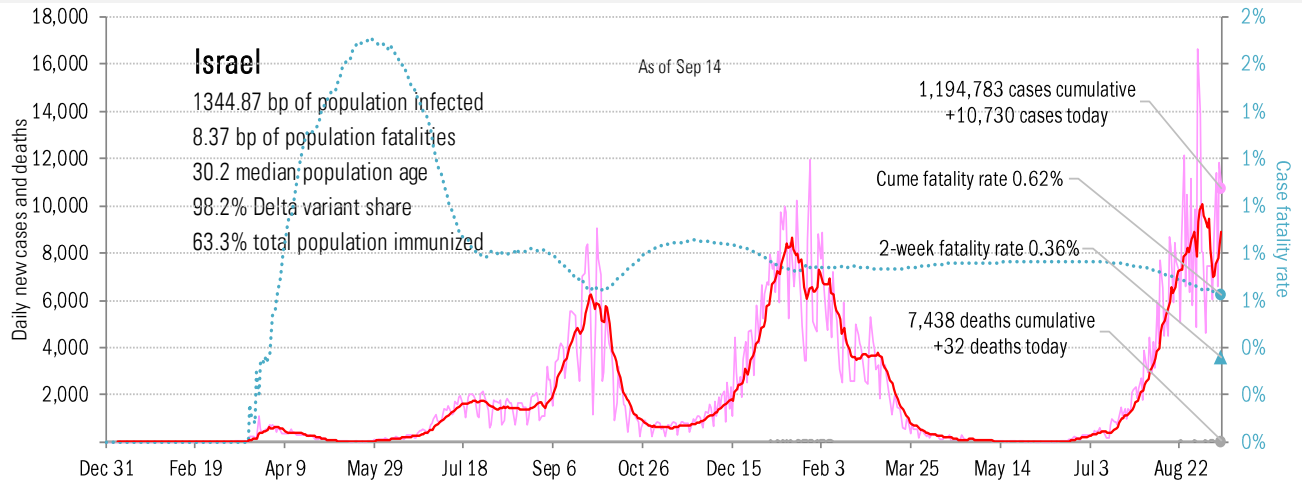
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

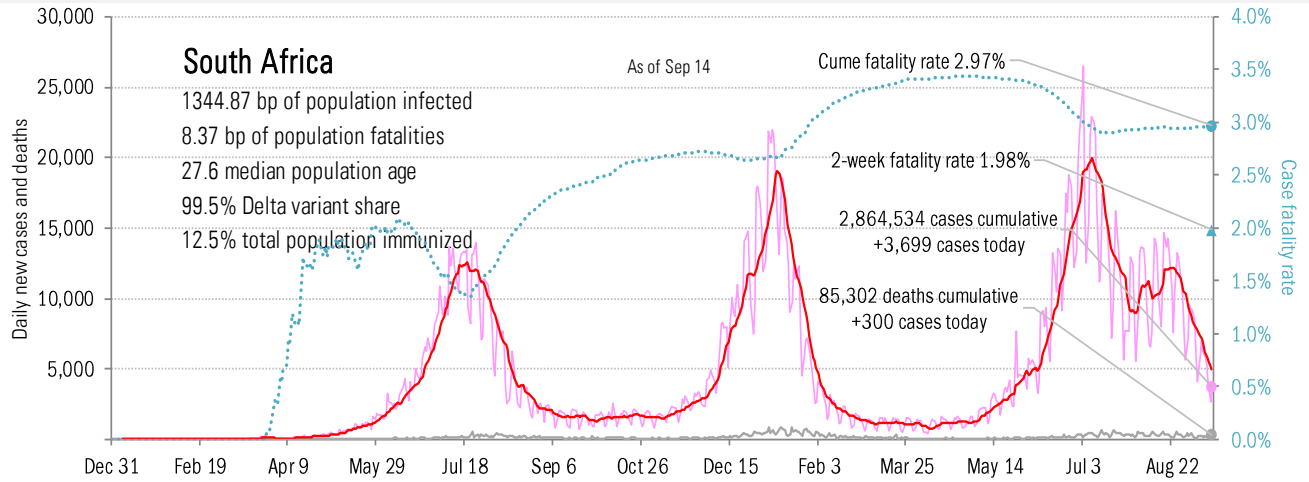
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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