

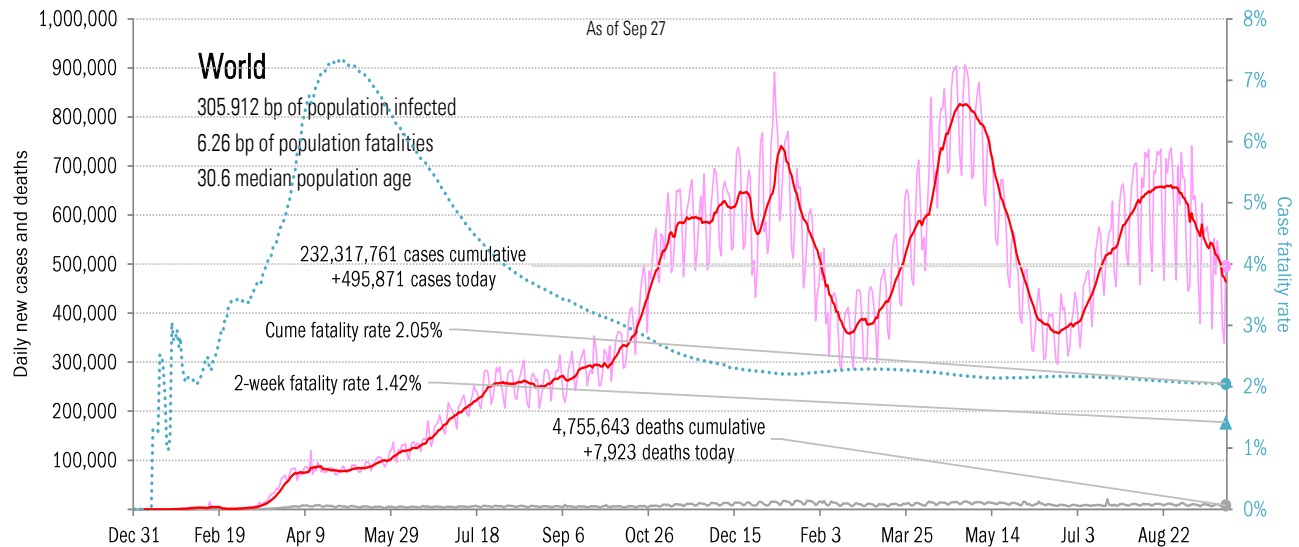
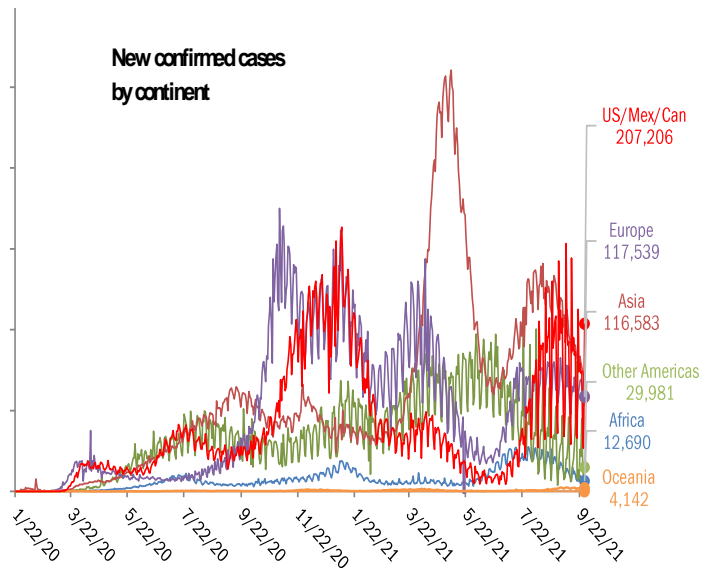
## Data Insights: Covid-2019 Monitor

Tuesday, September 28, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+192,818	United States	+2,222
United Kingdom	+37,583	Russia	+770
Turkey	+27,188	France	+399
Russia	+21,731	Kazakhstan	+362
India	+18,795	Iran	+289
Iran	+14,470	Malaysia	+258
Brazil	+14,423	Mexico	+226
Canada	+11,381	Brazil	+210
Malaysia	+10,959	Turkey	+206
Thailand	+10,288	India	+179
<b>+359,636</b>		<b>+5,121</b>	
World	+495,871	World	+7,923
Top ten	73%	Top ten	65%



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

### For more information contact us:

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# The US scorecard

Cases: 7-day average and daily Deaths: Daily

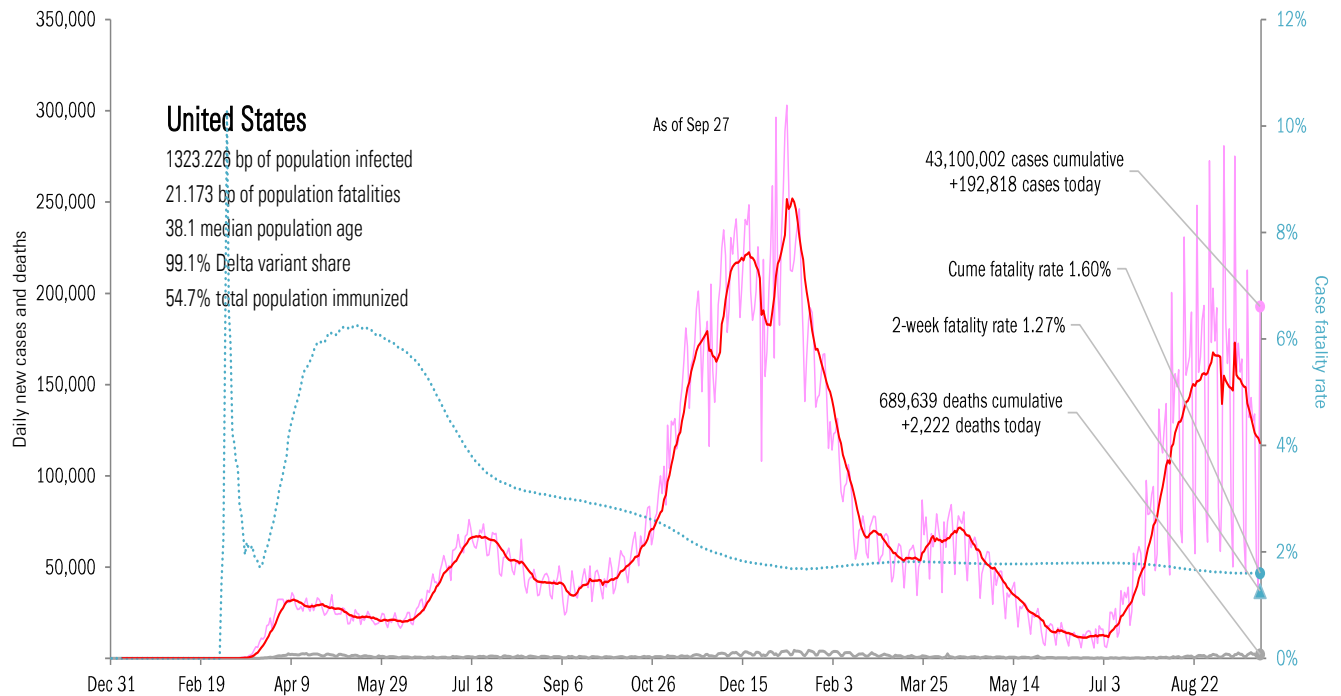
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
CA	+17,952		FL	+311		GA	+49		CA	4,698,504		CA	68,767		TX	355,415		RI	85%	AL	96%
NC	+13,488		CA	+168		MI	+35		TX	4,029,626		TX	64,192		FL	306,244		MA	84%	GA	94%
TX	+10,814		GA	+142		NY	+21		FL	3,566,367		NY	55,204		CA	295,904		GA	84%	TX	94%
WA	+8,788		SC	+133		WV	+20		NY	2,411,626		FL	53,276		NY	155,044		MD	83%	KY	91%
MI	+8,719		NC	+127		PA	+19		IL	1,618,800		PA	29,151		GA	150,804		SC	82%	ID	89%
SC	+8,588		TN	+126		MN	+16		GA	1,565,540		NJ	27,346		CH	110,267		MN	82%	OK	87%
GA	+8,004		TX	+118		WI	+11		PA	1,415,049		IL	27,293		KY	105,800		PA	81%	AK	87%
VA	+7,987		IN	+97		MT	+10		CH	1,393,696		GA	25,620		PA	105,537		CT	81%	NC	86%
TN	+7,826		CT	+92		DE	+9		NC	1,382,231		MI	22,244		IL	99,188		FL	80%	WV	85%
FL	+7,730		KY	+87		VA	+8		TN	1,217,394		CH	21,820		MI	82,746		WA	80%	SC	85%
+99,896			+1,401			+198			23,298,833			394,913			1,766,949						
All states	+192,818		+2,222			-833			All states	43,100,002		689,639			3,138,393			All states	70%	67%	
Top ten	52%		63%			-24%			Top ten	54%		57%			56%			Median	74%	78%	

Some states not reporting

## Five most improved US states

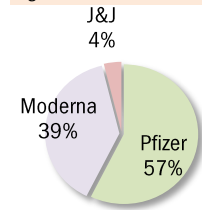
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NY	-3,312	NY	-41	IA	-96	AK	+60 bp
AZ	-620	TX	-22	IL	-94	NC	+20 bp
CH	-585	H	-10	NC	-86	CR	+20 bp
MO	-330	AZ	-6	CO	-36	FR	+20 bp
WV	-213	MD	-4	TN	-29	AL	+10 bp



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	One dose	% Pop	Immune	% pop	New immune today			
	401,689,697				+0.556 million	US	54.7%	63.5%
Total population	218,862,710	66%	188,513,852	56%	+0.218 million	UK	65.6%	71.5%
Age 12 to 17	13,607,435	57%	11,051,668	46%	+0.034 million	France	65.4%	74.3%
Age 18 to 64	151,351,830	74%	129,502,459	64%	+0.192 million	Spain	78.0%	80.5%
Age 65 and over	52,834,997	97%	47,085,689	86%	+0.009 million	Germany	63.6%	67.2%
						Italy	67.4%	74.5%
						Australia	41.5%	62.4%
						Israel	63.9%	69.3%
						Canada	70.5%	76.5%
						Japan	58.2%	69.5%
						Africa	4.2%	6.6%
						India	16.5%	45.9%
						Brazil	41.1%	70.0%
						China	70.8%	76.2%



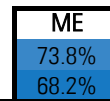
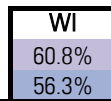
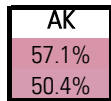
State
At least partial immunity as % population
Full immunity as % population



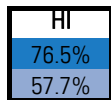
Every American >18 immune in **155 days** by Mar 1, 2022  
 68.4% of population >18 immunized  
 14.7% previously tested positive  
**83.1%** vs 60% adult herd immunity

As of Sep 27

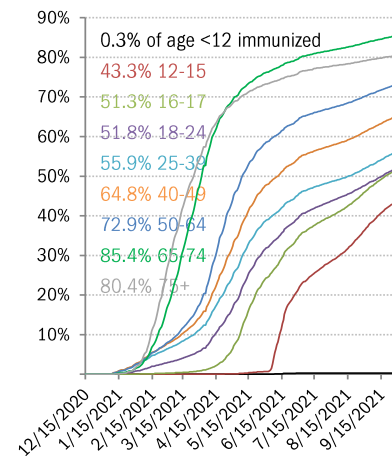
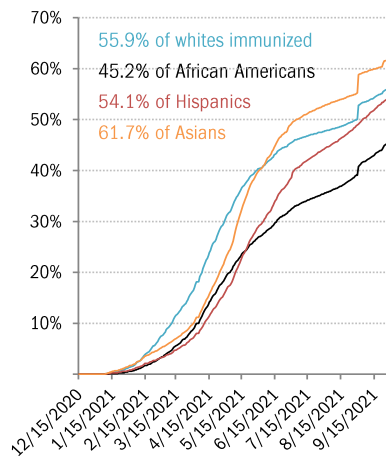
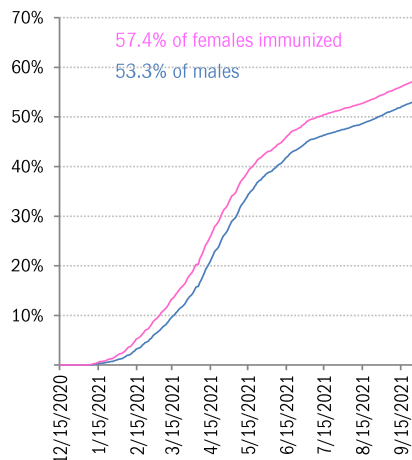
Global data differs from sources, timing



WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
66.9%	46.8%	54.5%	50.8%	63.4%	68.2%	56.9%	71.0%	77.6%	69.4%	
60.4%	41.4%	48.2%	43.9%	58.0%	53.3%	52.2%	63.5%	69.3%	61.4%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
66.4%	60.5%	48.1%	58.8%	57.9%	52.1%	54.1%	72.1%	72.3%	77.2%	
60.6%	50.6%	41.2%	51.4%	53.7%	48.3%	50.1%	57.6%	64.1%	67.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
71.5%	58.7%	65.4%	59.3%	54.6%	60.4%	48.1%	68.2%	70.4%	75.9%	75.0%
58.8%	50.3%	59.2%	54.5%	47.6%	52.0%	40.4%	60.3%	63.9%	68.5%	68.0%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	59.1%	72.3%	59.6%	55.6%	52.4%	59.3%	55.0%	70.5%	66.0%	
	50.9%	62.9%	50.9%	45.4%	45.0%	49.6%	47.0%	60.0%	57.3%	
			OK	LA	MS	AL	GA			
			56.3%	51.6%	49.9%	52.5%	54.7%			
			47.4%	45.2%	43.1%	42.3%	45.1%			
			TX					FL		PR
			59.7%					66.7%		79.1%
			51.0%					57.0%		70.1%



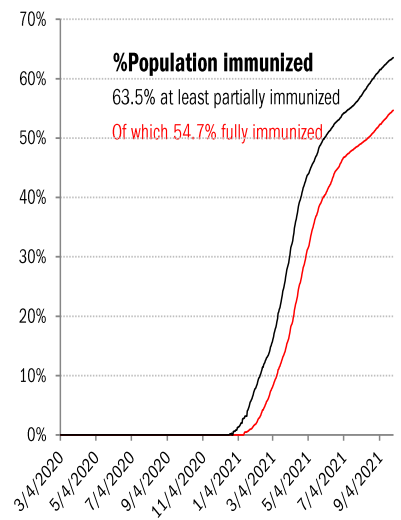
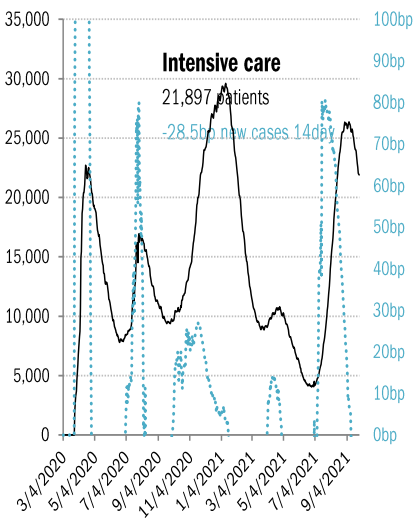
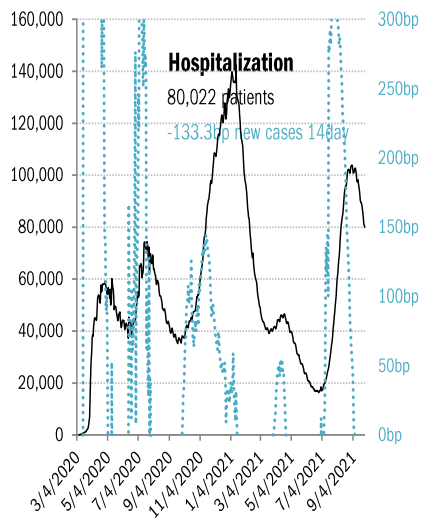
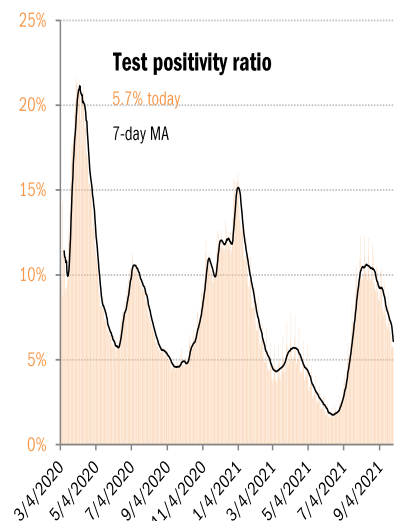
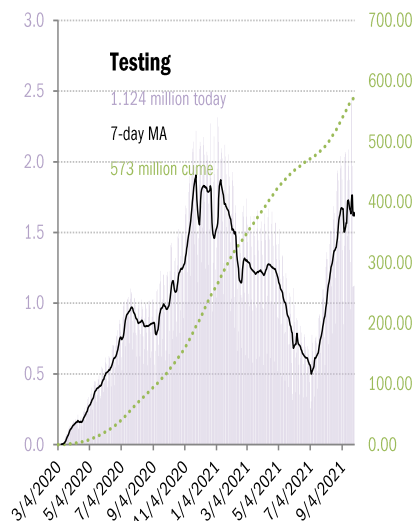
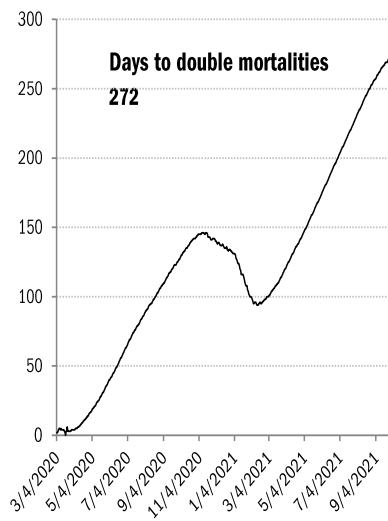
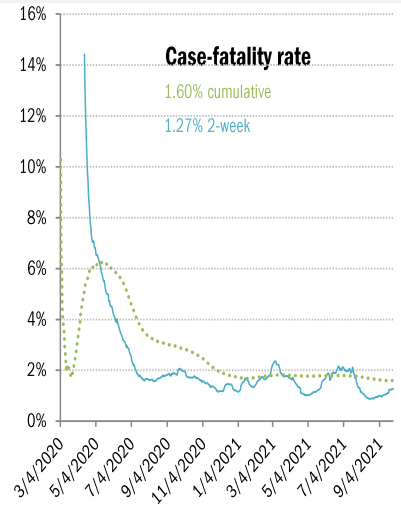
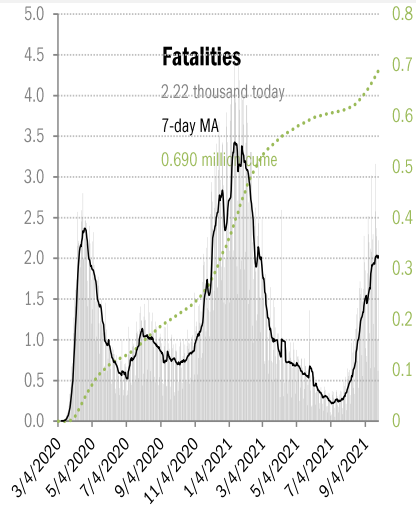
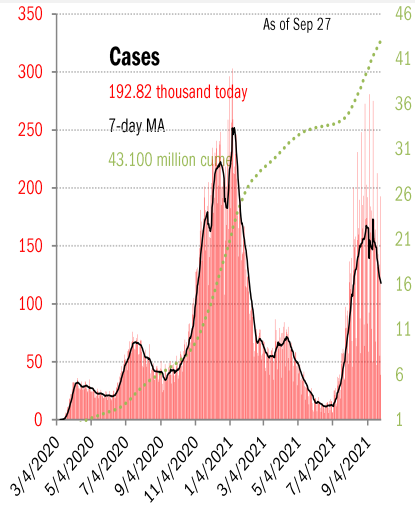
## The demographics of US vaccination



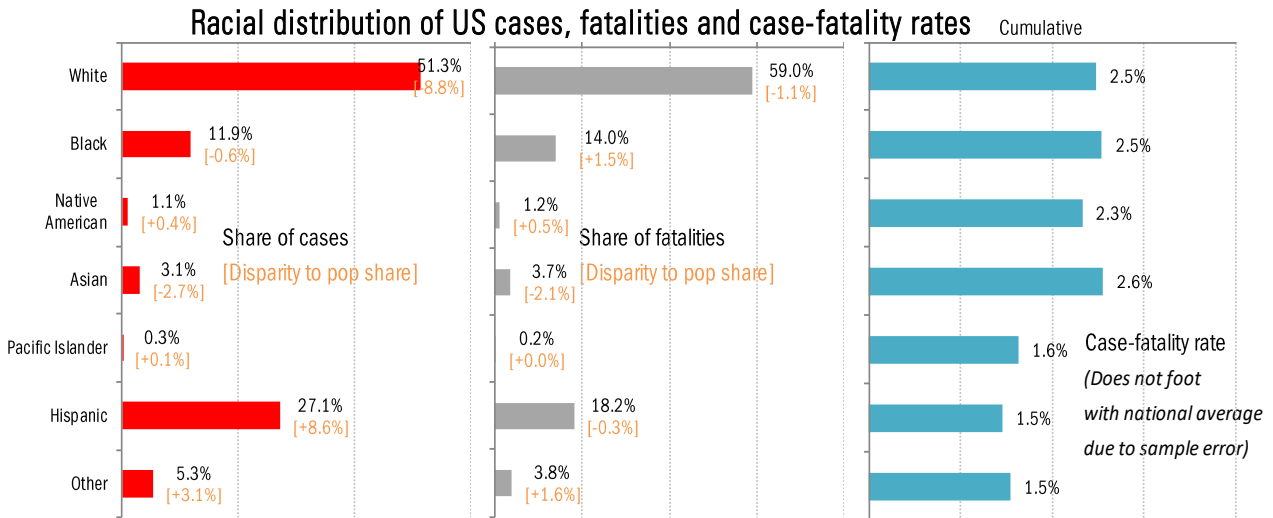
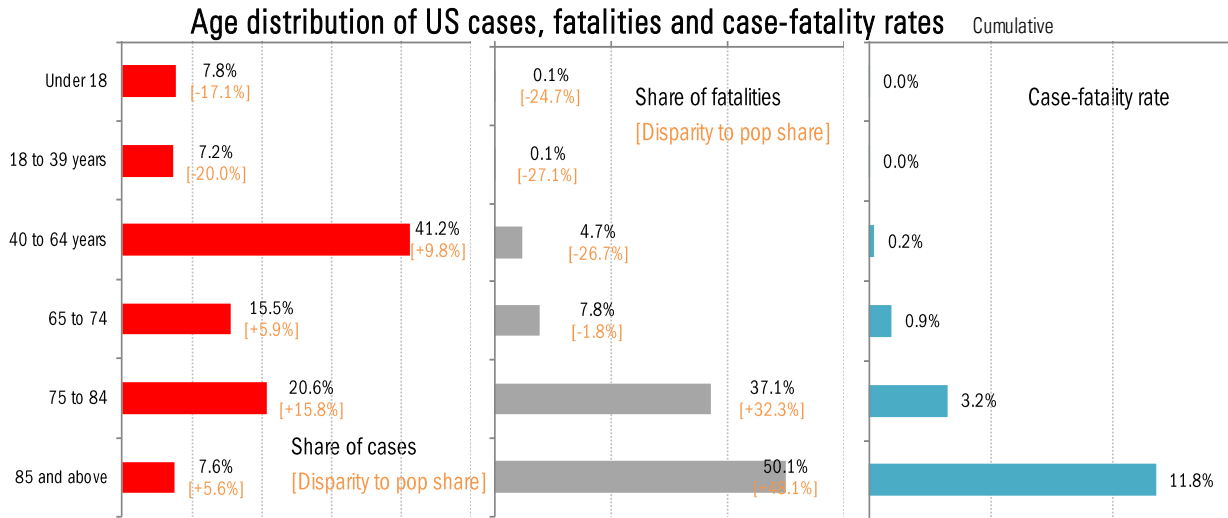
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

# US deep-dive

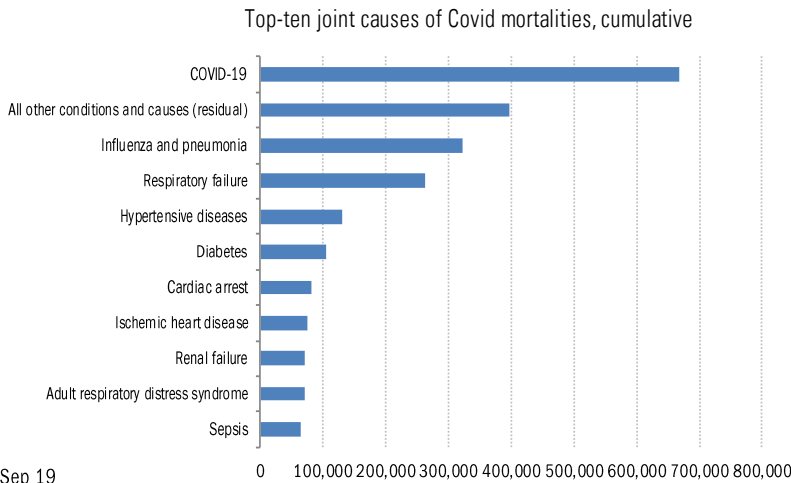
National and state-by-state data do not line up because of different sources



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

[DeSantis names doctor skeptical of Covid-19 measures as Florida's new state surgeon general](#)

Gregory Lemos, Jamie Gumbrecht and Devan Cole  
*CNN*  
September 22, 2021

['Florida will completely reject fear,' new surgeon general Dr. Joseph Ladapo says](#)

Peter Burke  
*WPTV*  
September 21, 2021

## Meme of the day

ALL NEW FOR FALL  
2021!!!

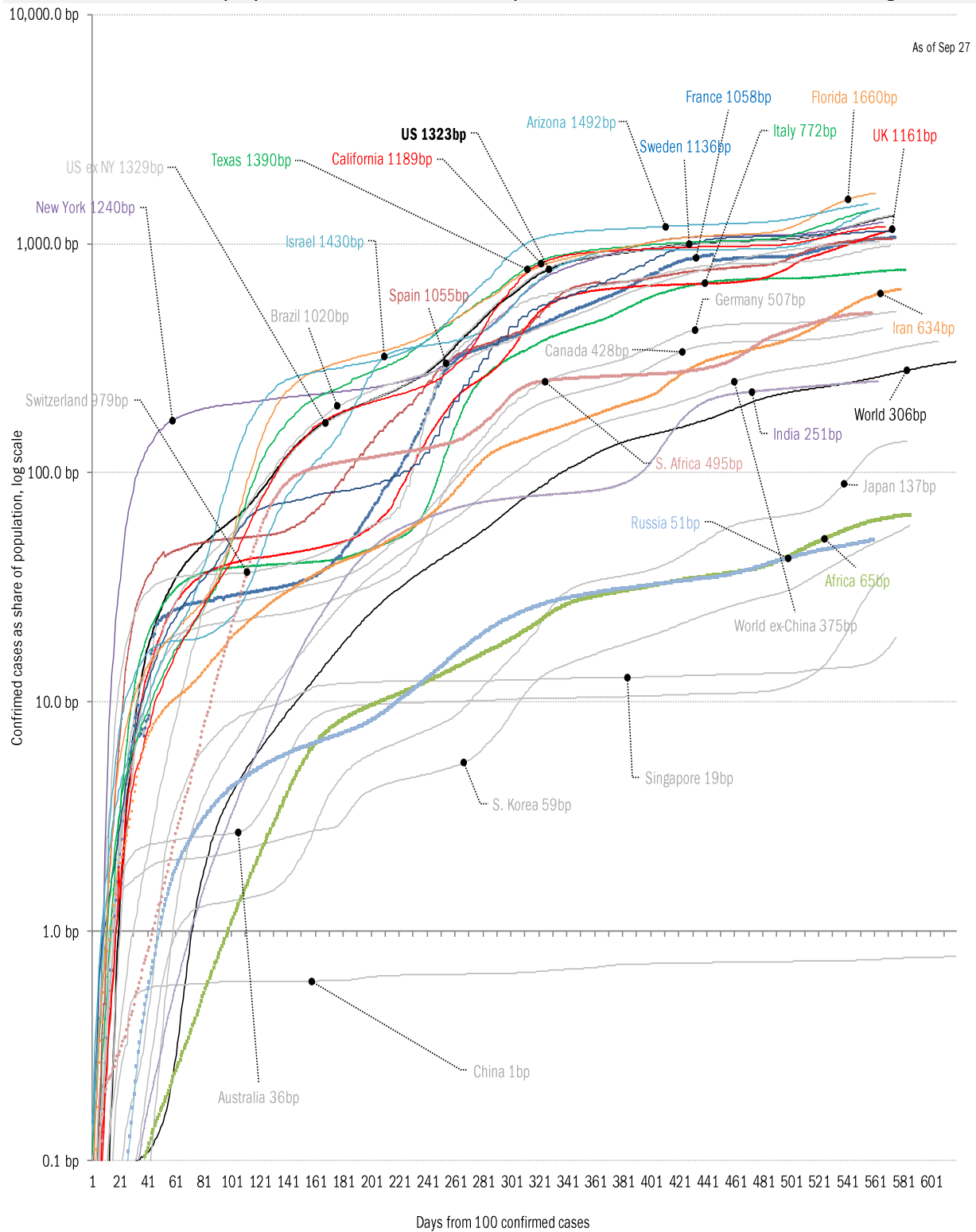


TRY OUR SEASONAL BOOSTER  
**PUMPKIN SPICE VAXX**

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

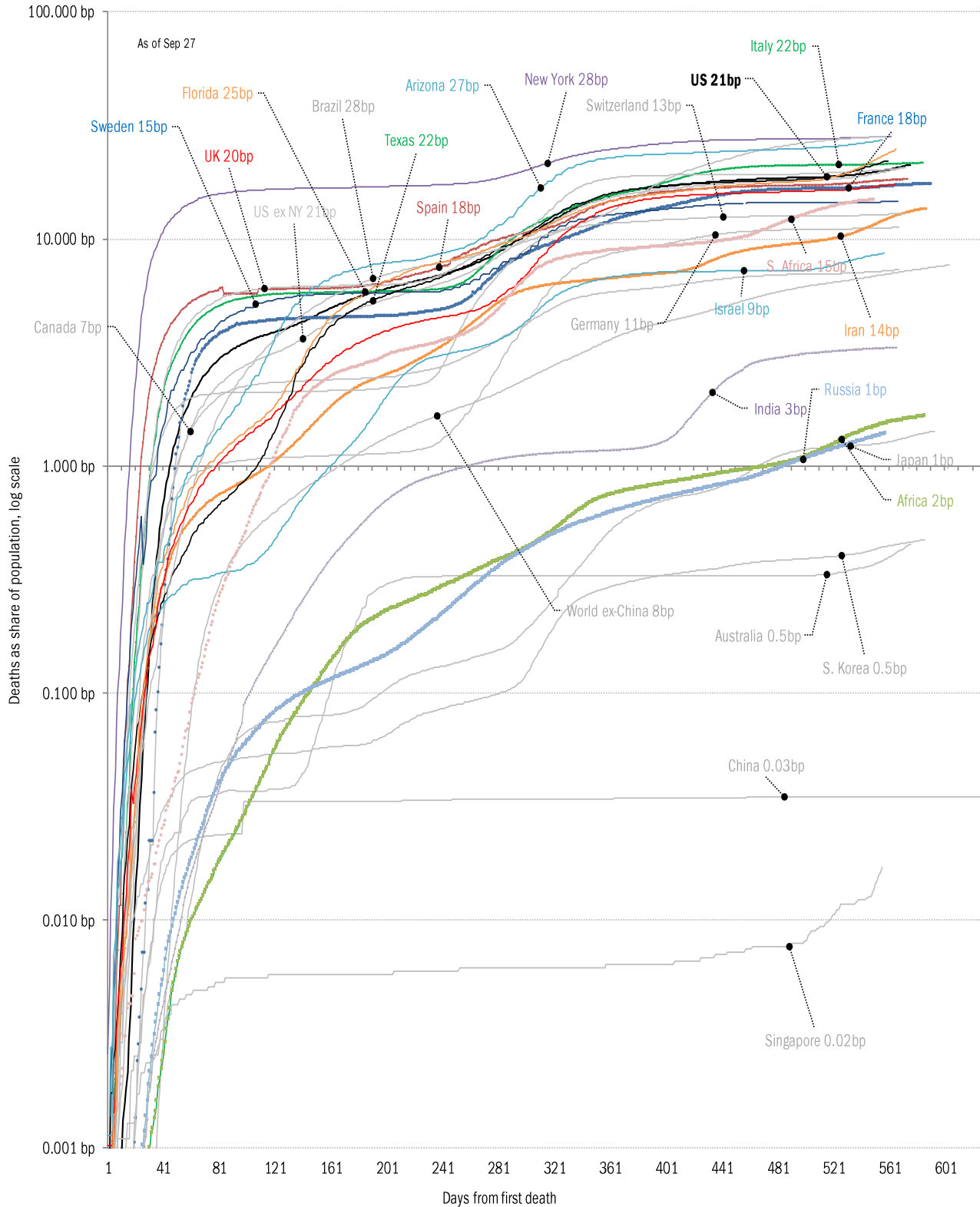


The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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*



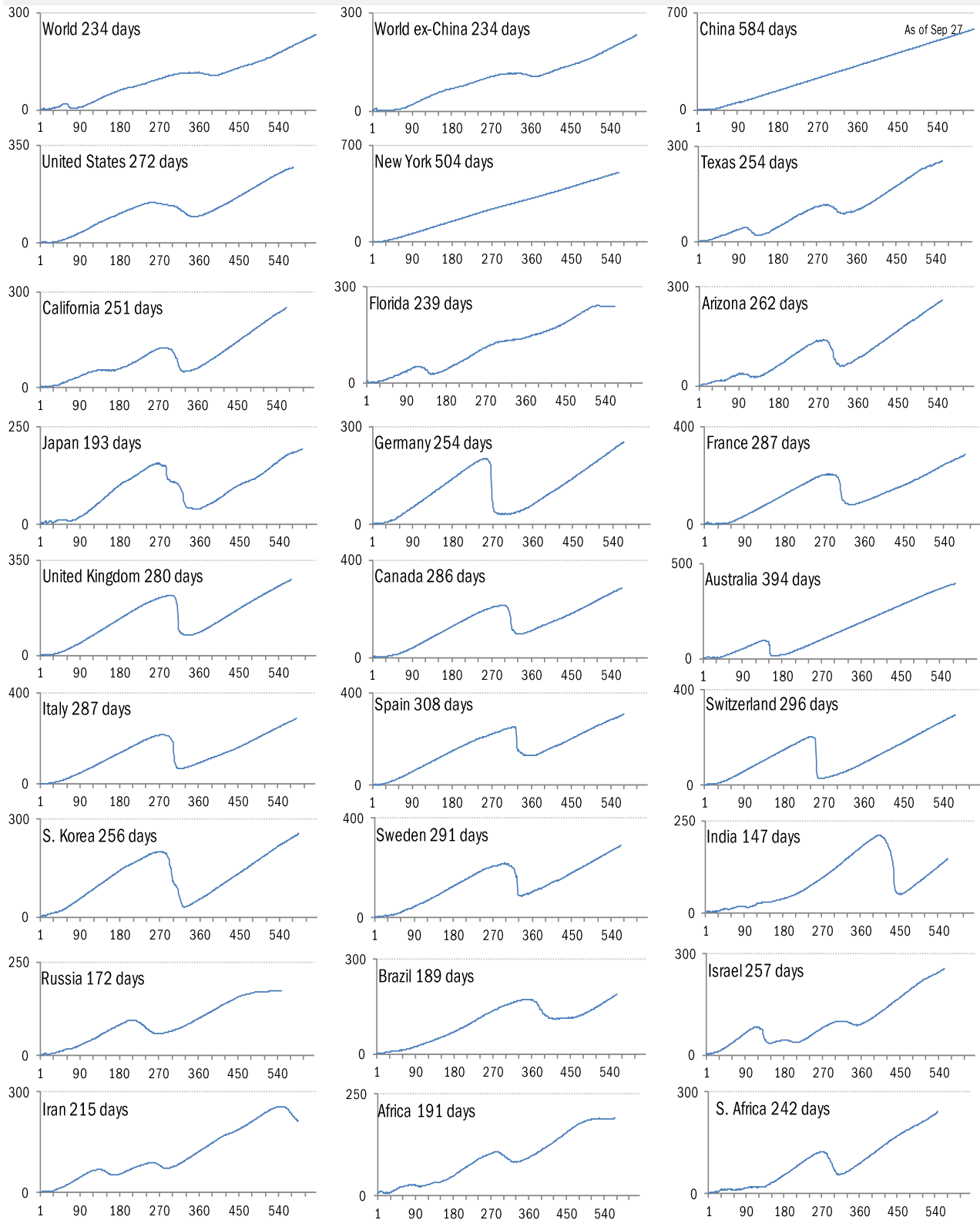
Source: [Johns Hopkins](#), TrendMacro calculations



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

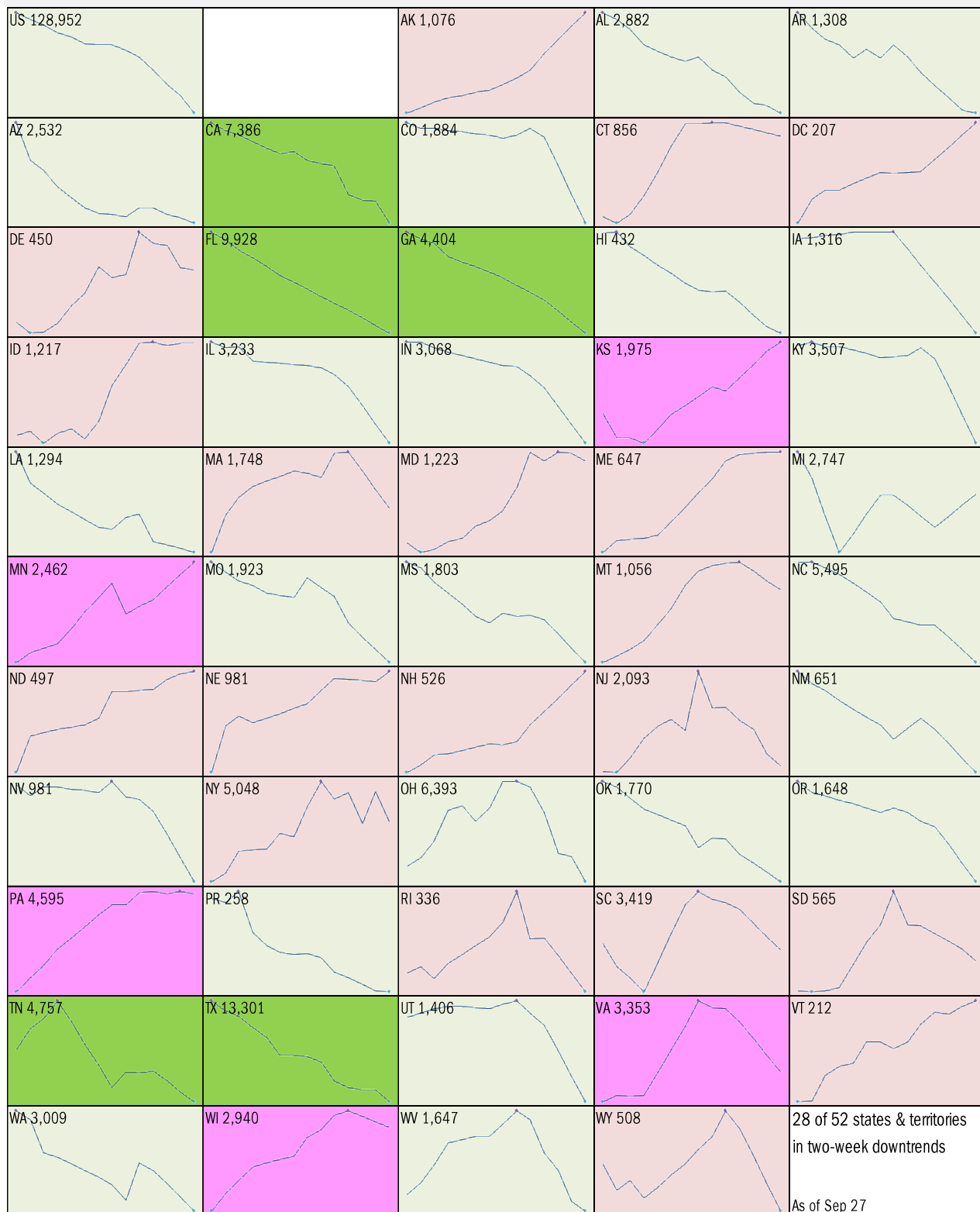
Vertical: days to double deaths Horizontal: days from first death

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

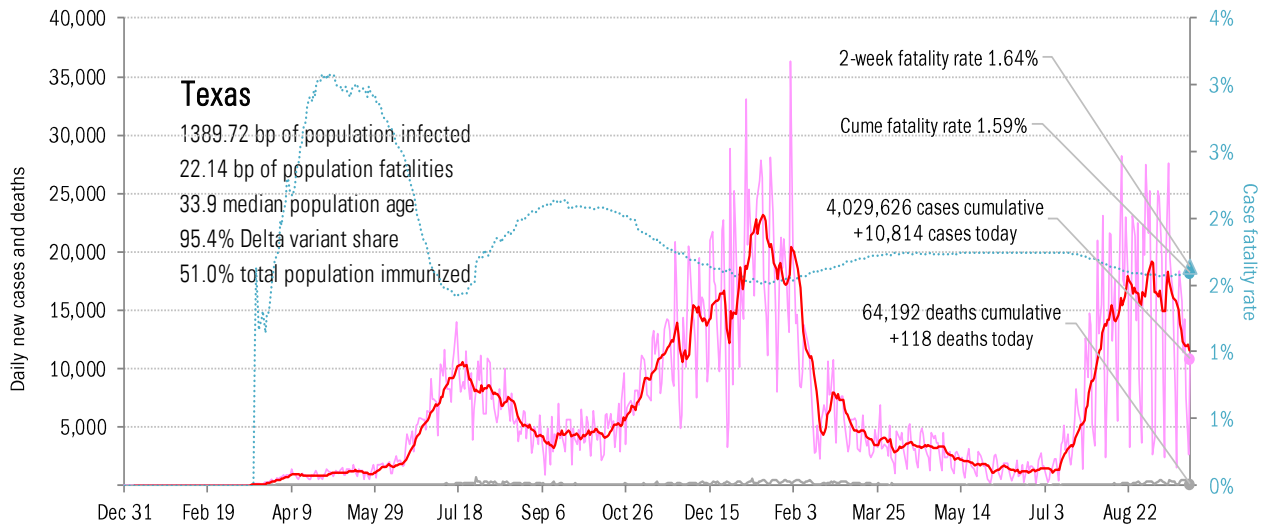
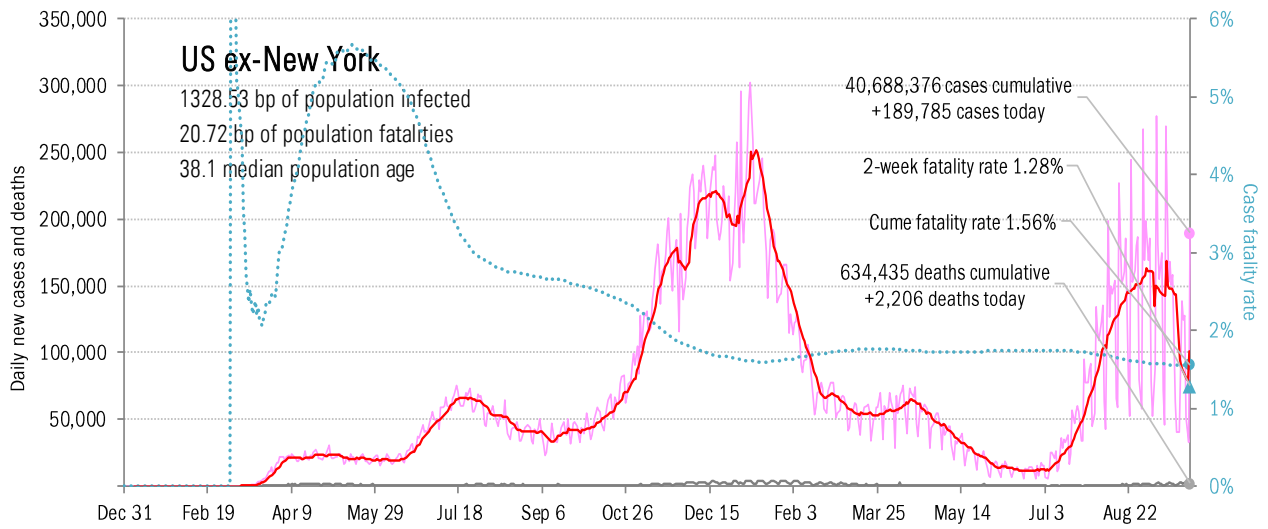
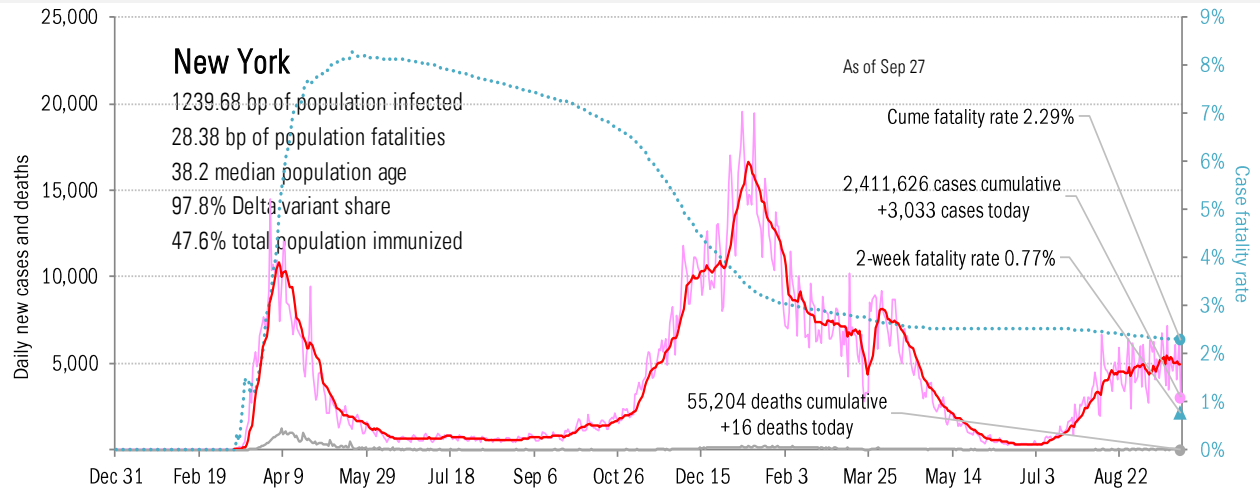
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

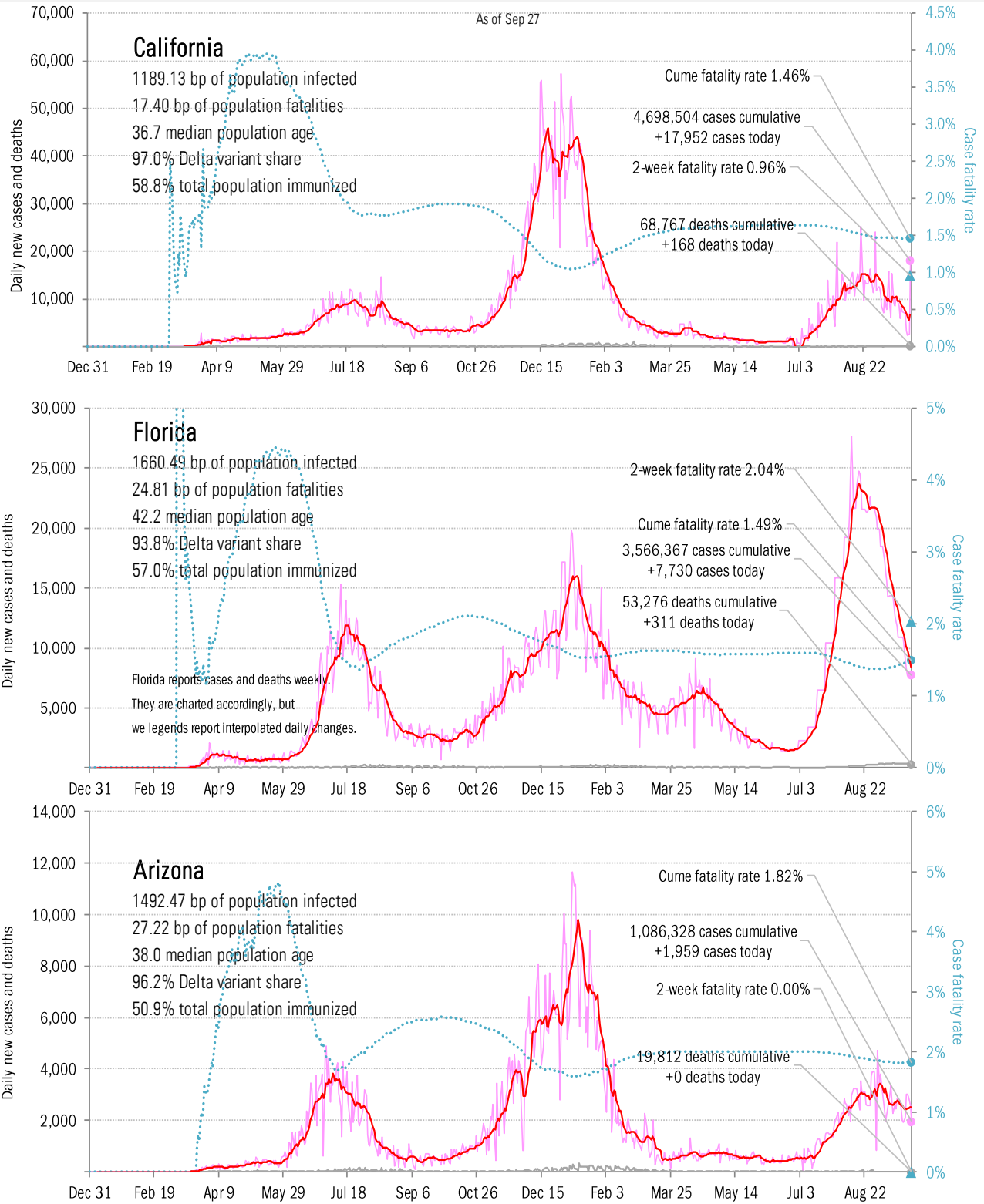
Cases: 7-day average and daily Deaths: Daily



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

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

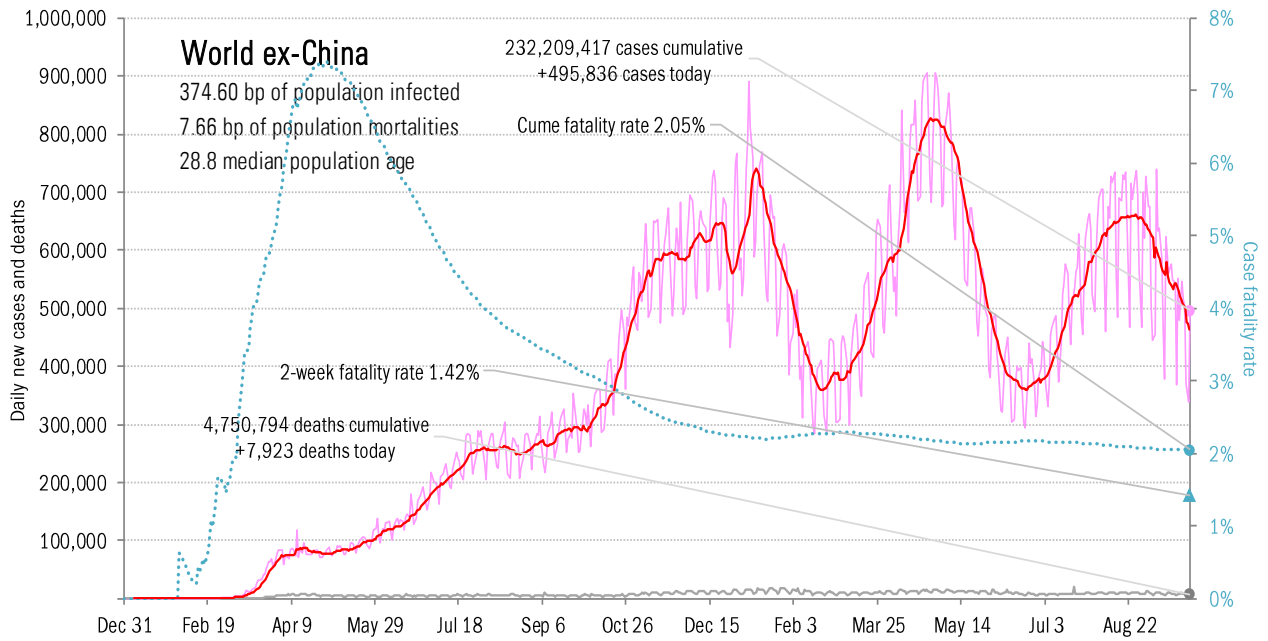
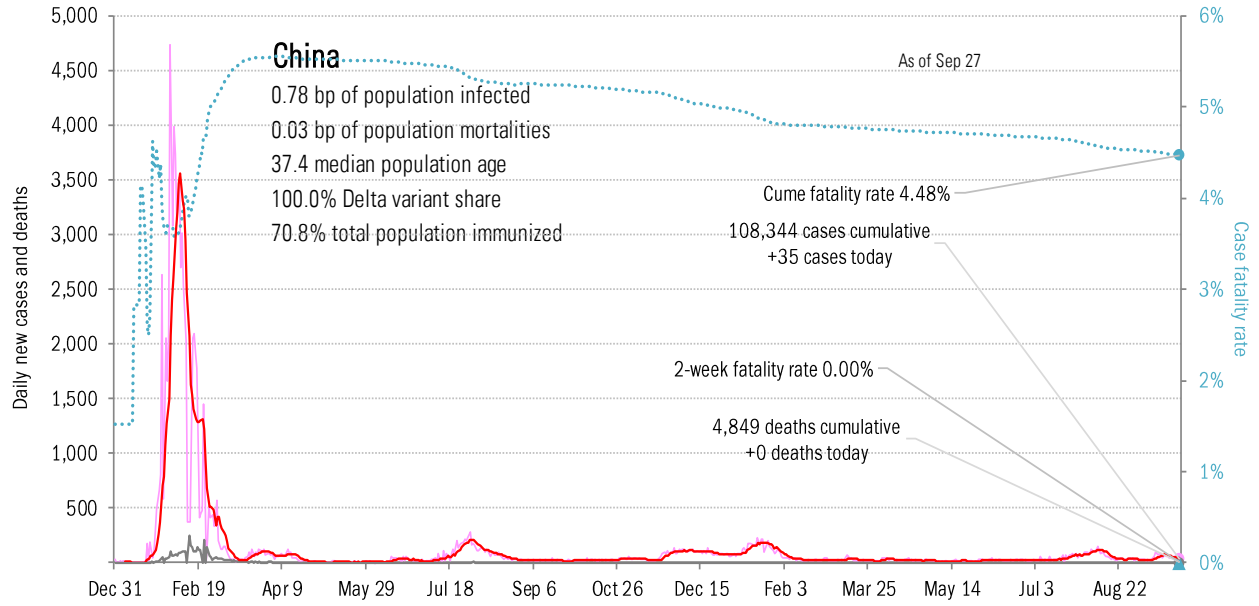
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

Cases: 7-day average and daily Deaths: Daily

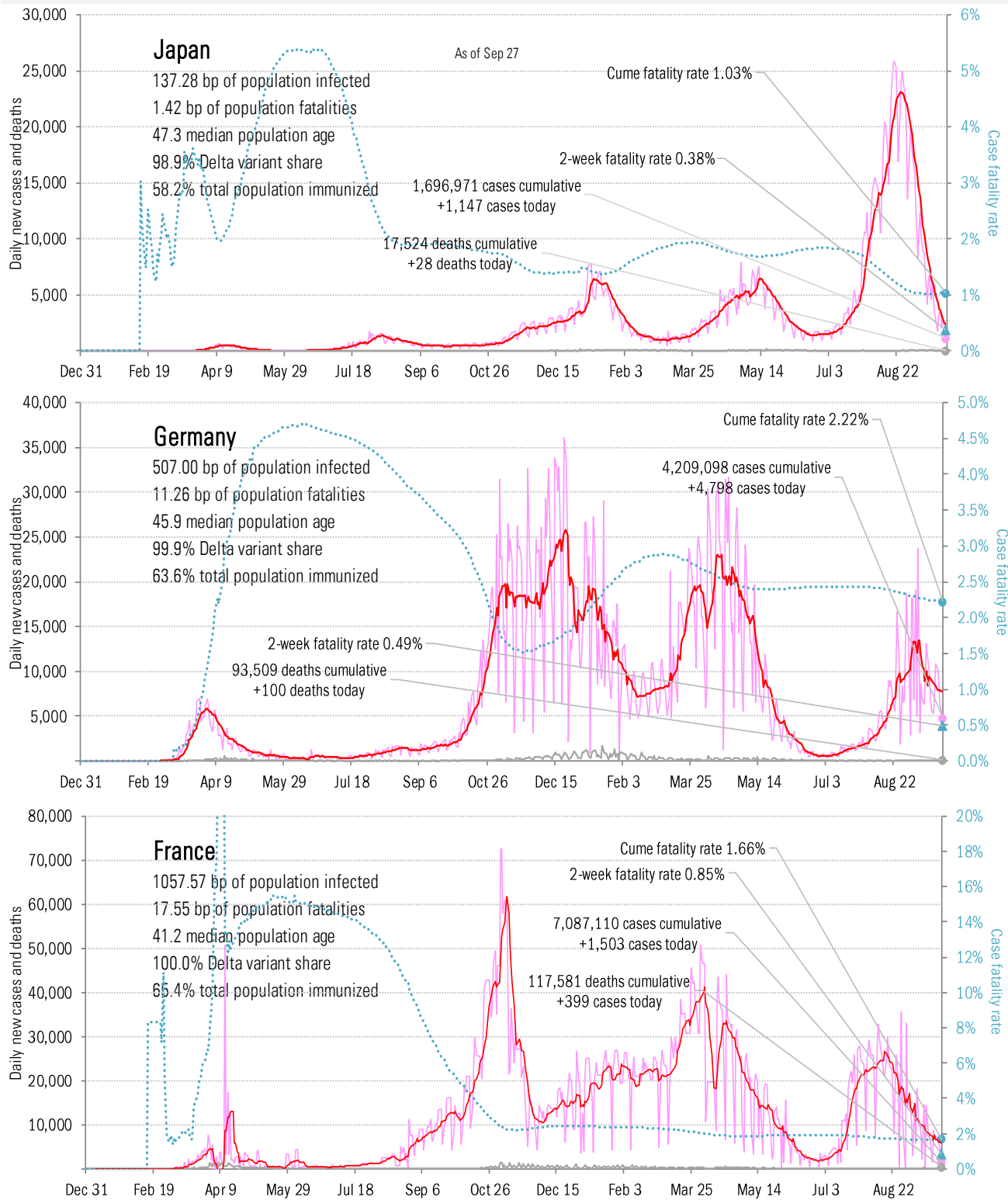


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in the largest economies

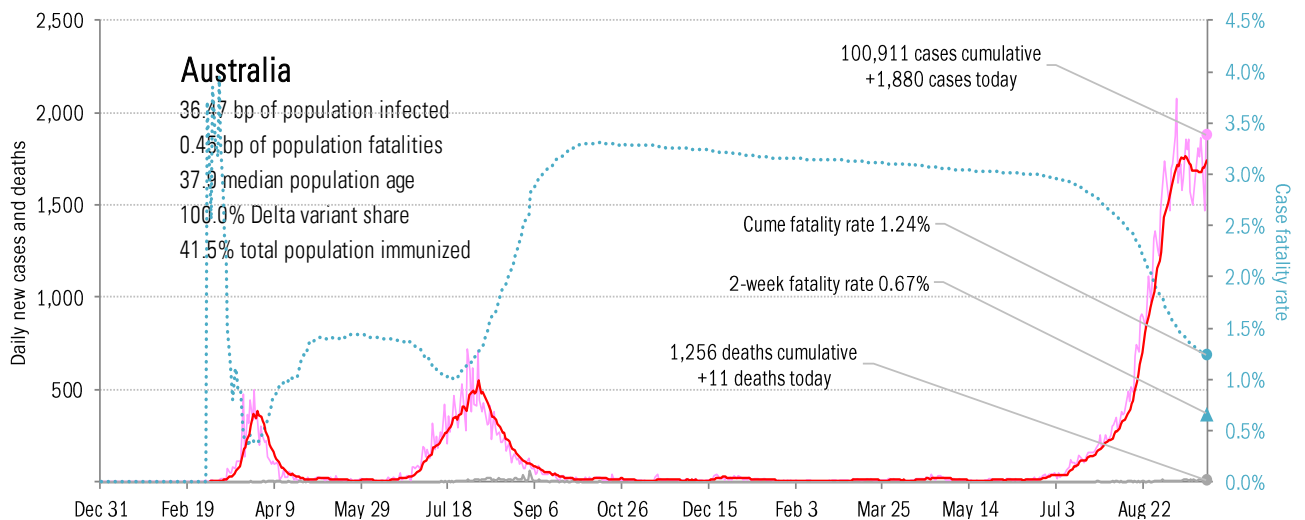
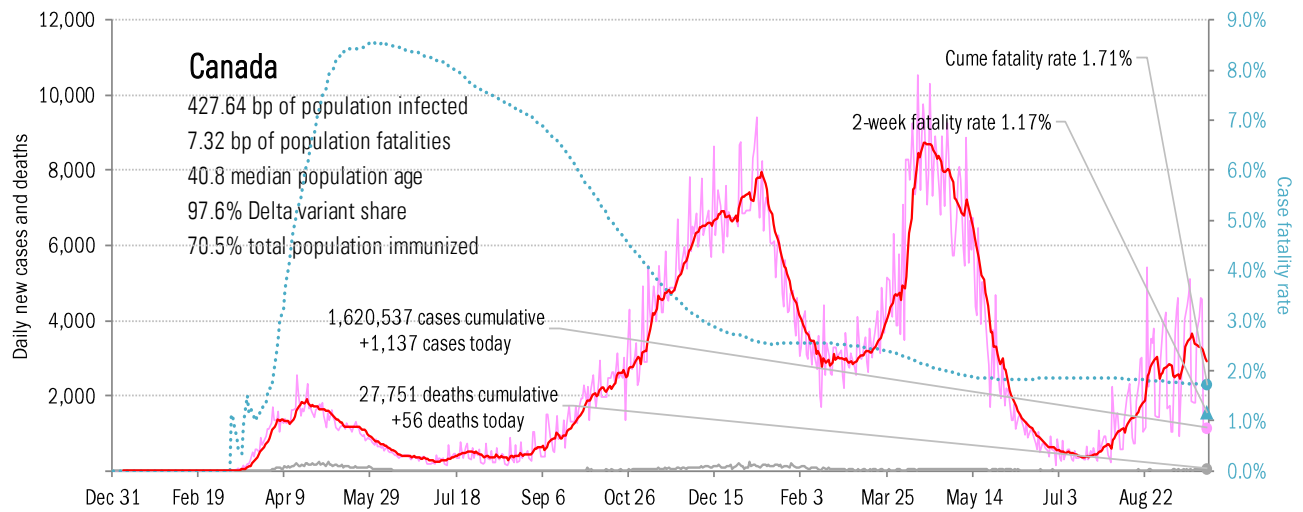
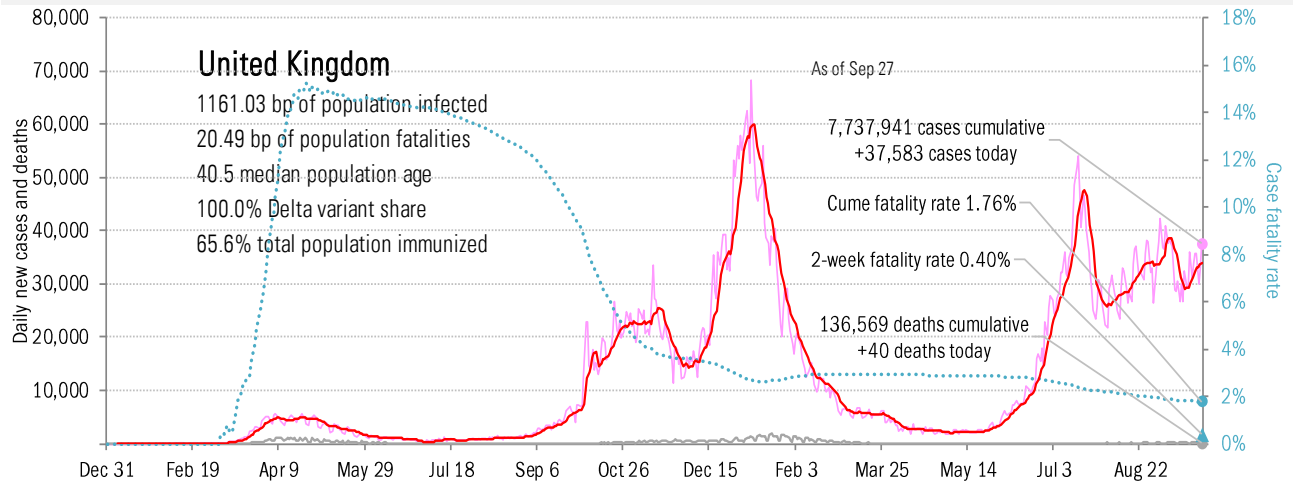
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

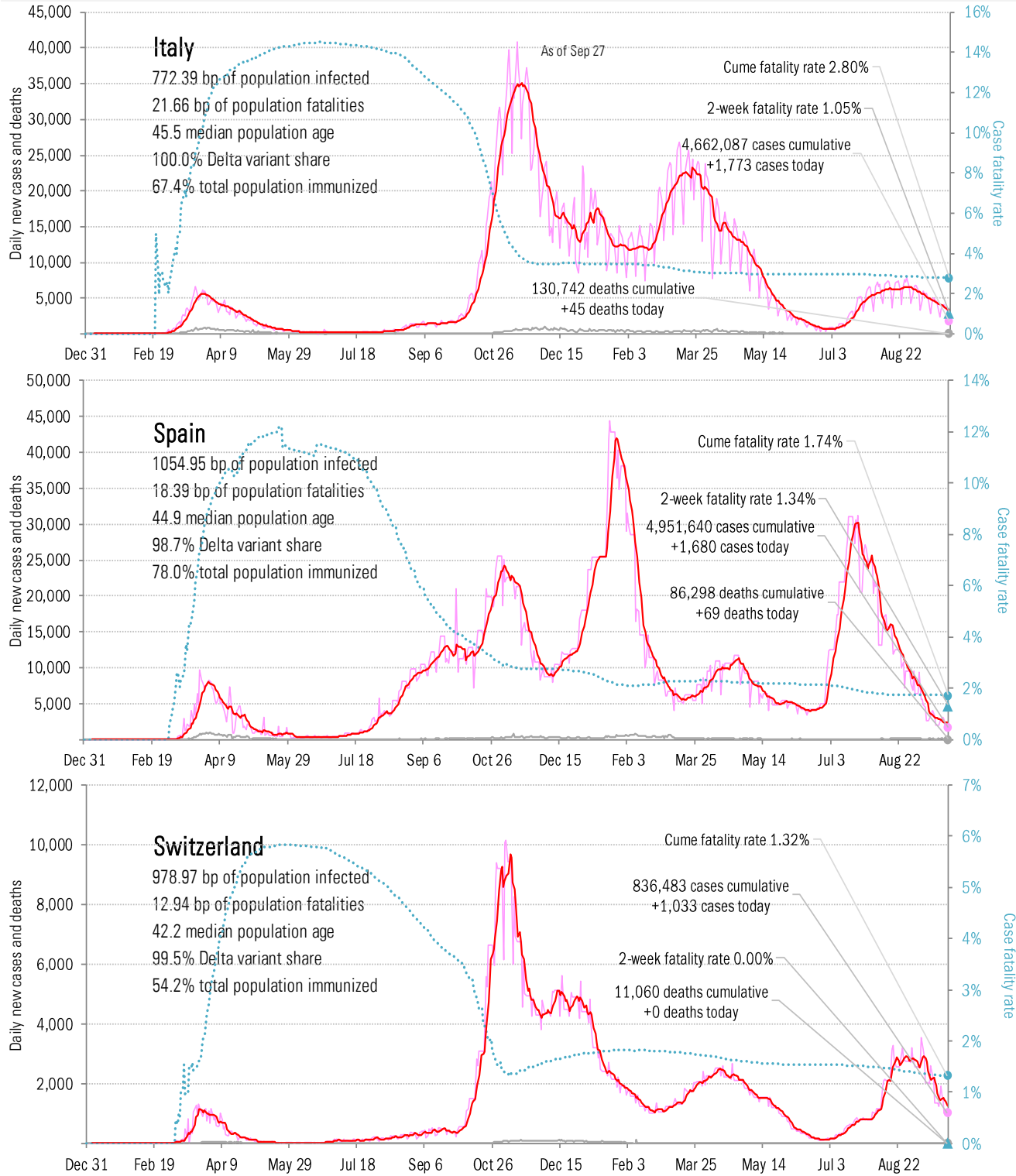
Cases: 7-day average and daily Deaths: Daily



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

# Impact in continental Europe

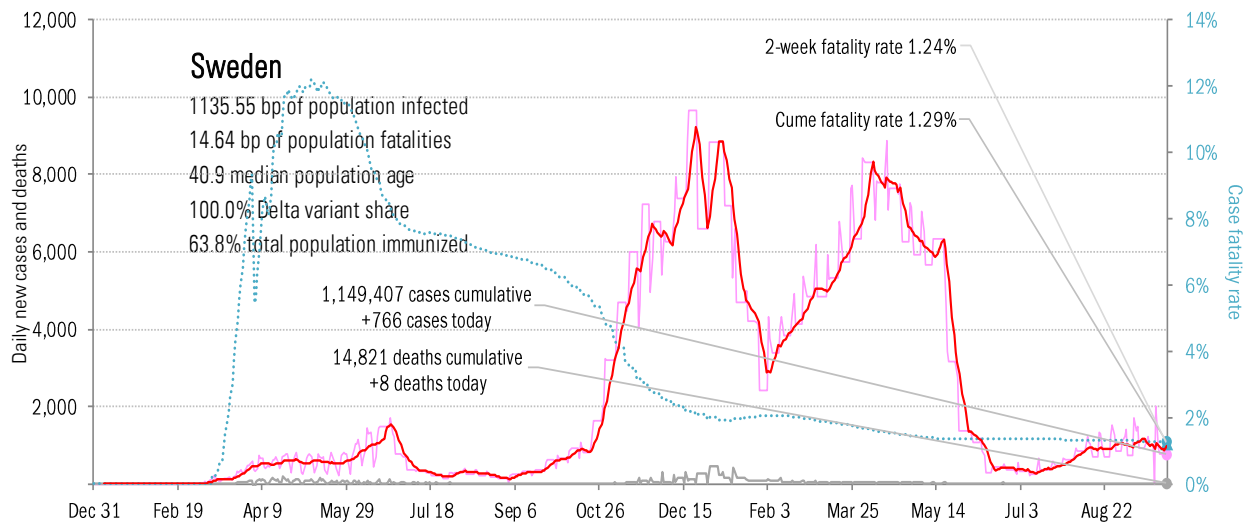
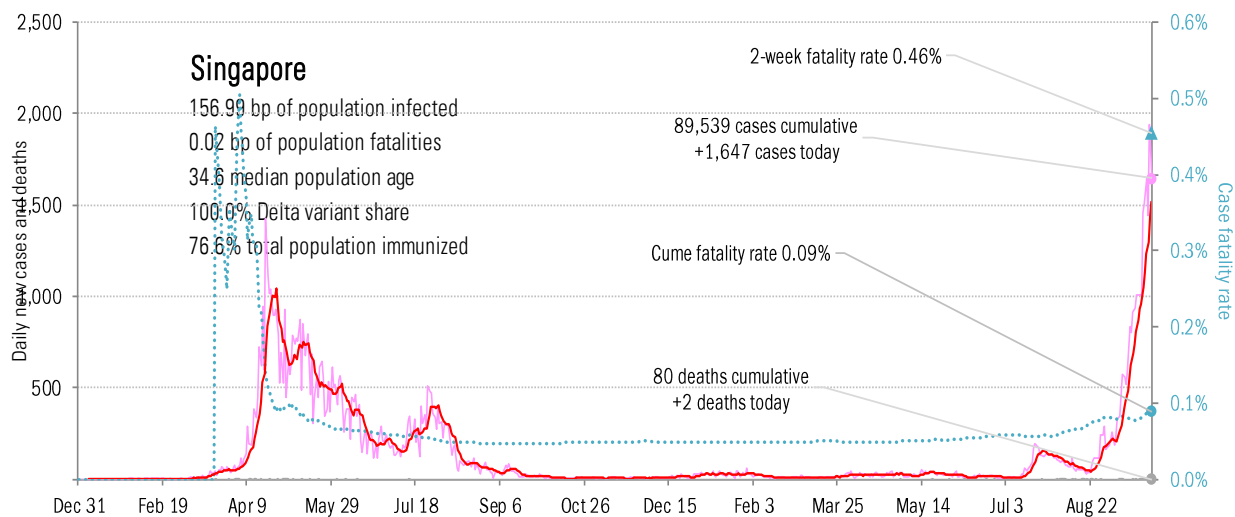
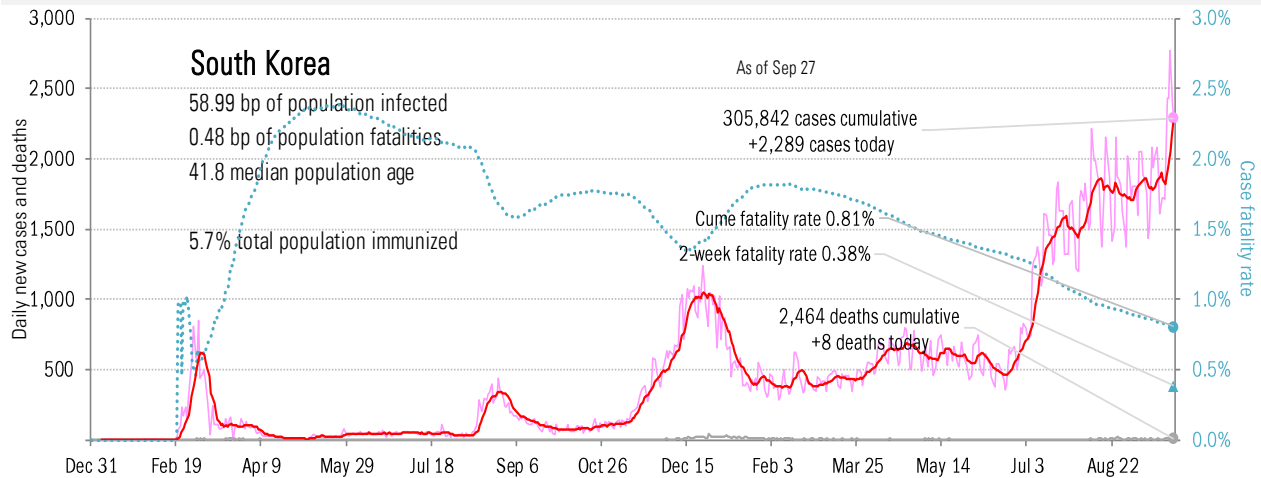
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

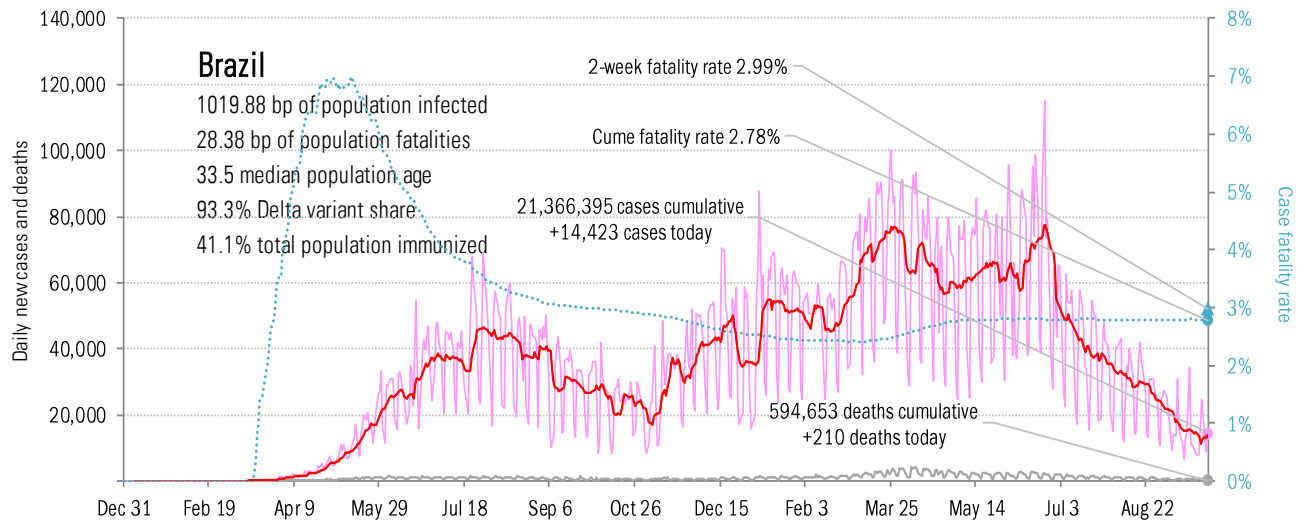
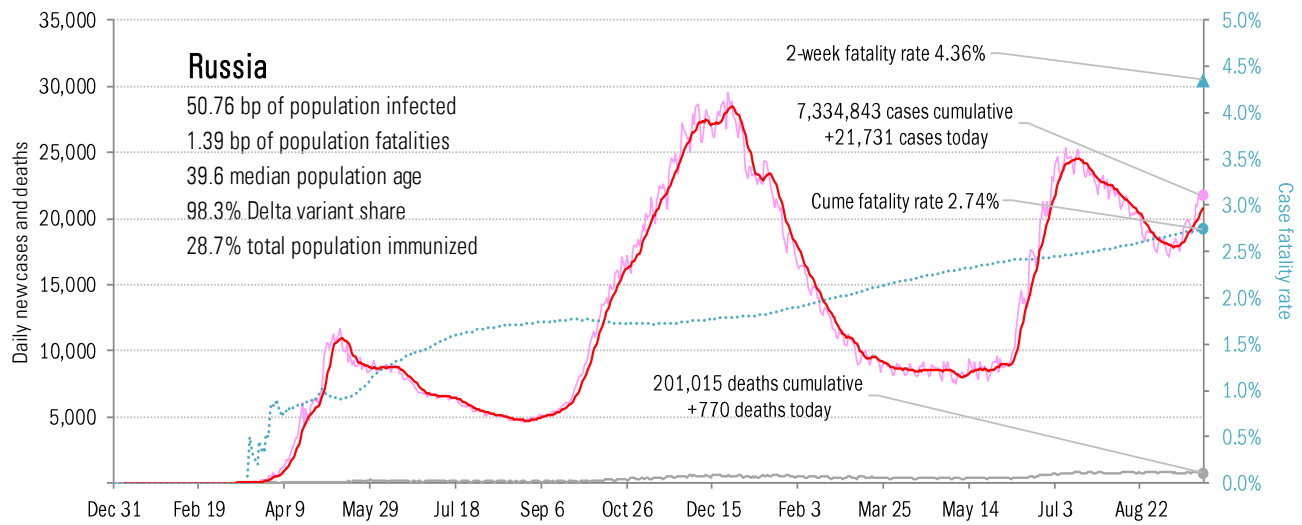
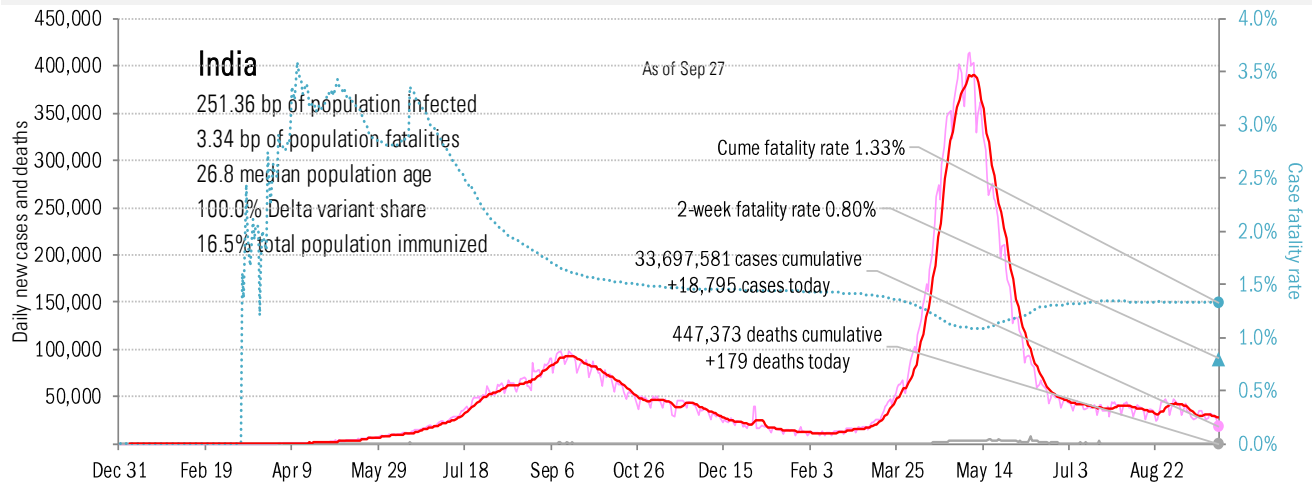
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

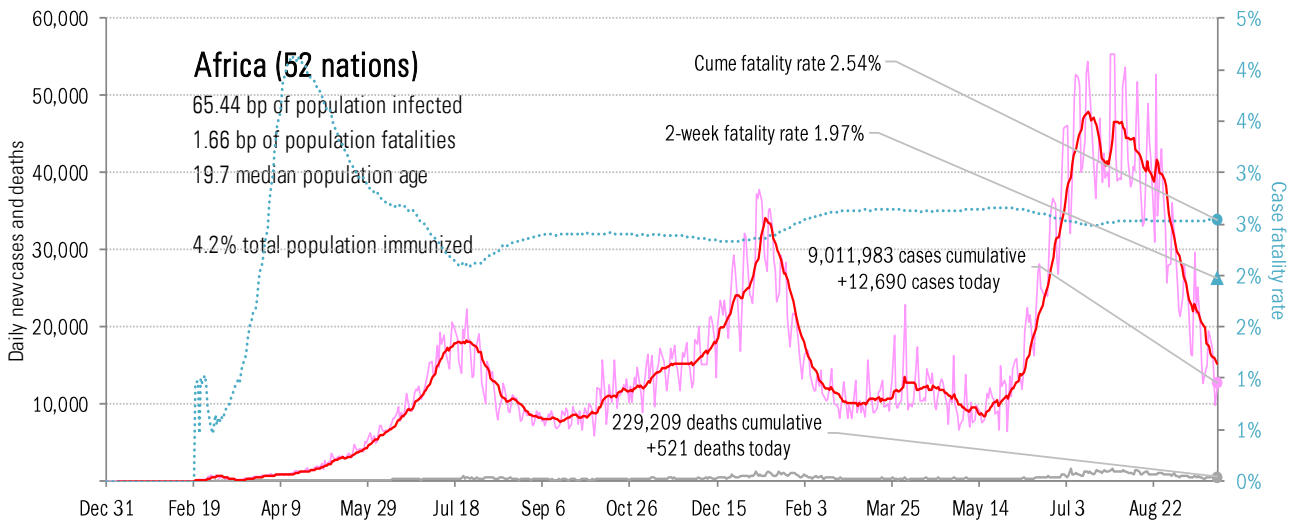
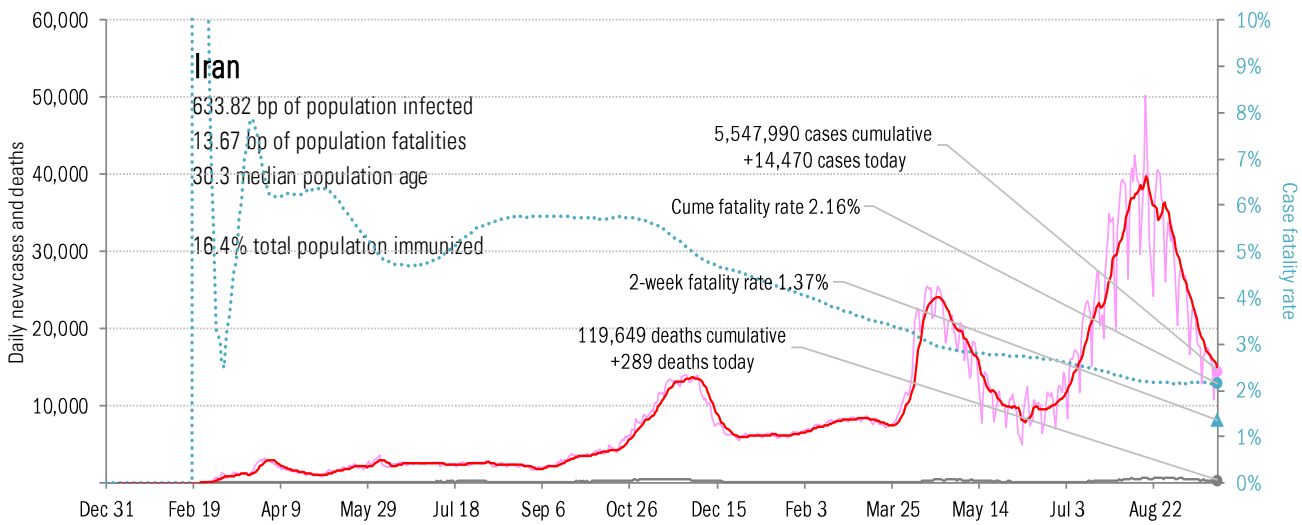
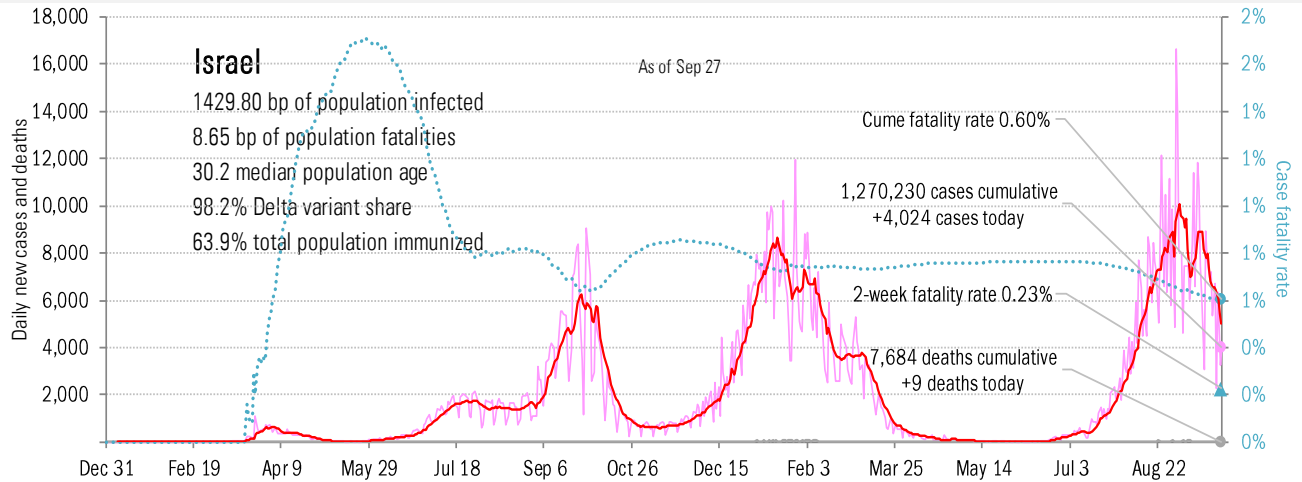
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

Cases: 7-day average and daily Deaths: Daily

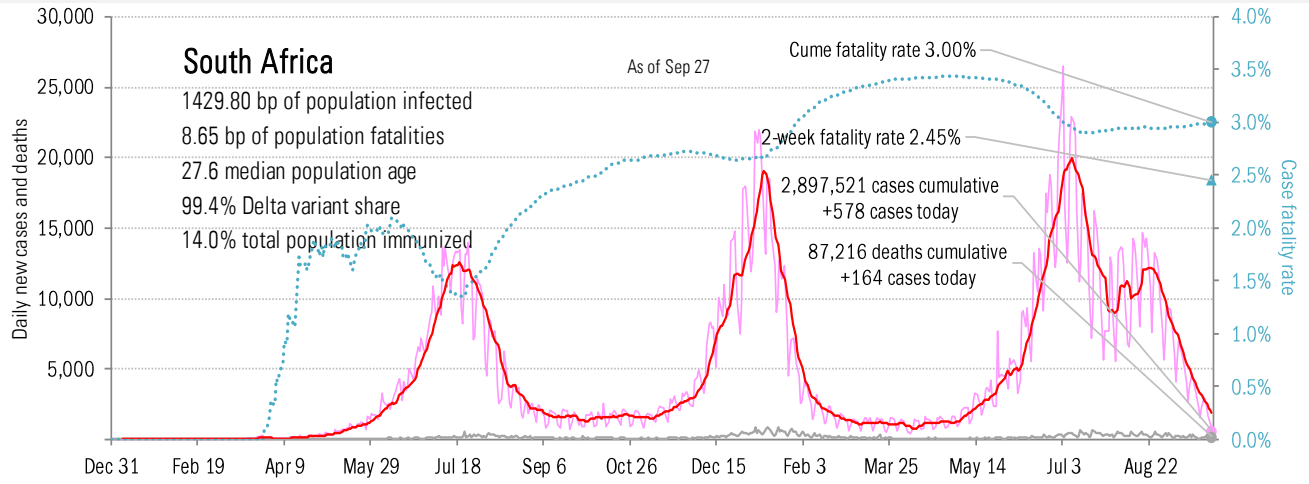


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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