

## Data Insights: Covid-2019 Monitor

Thursday, September 22, 2022

### The global scorecard

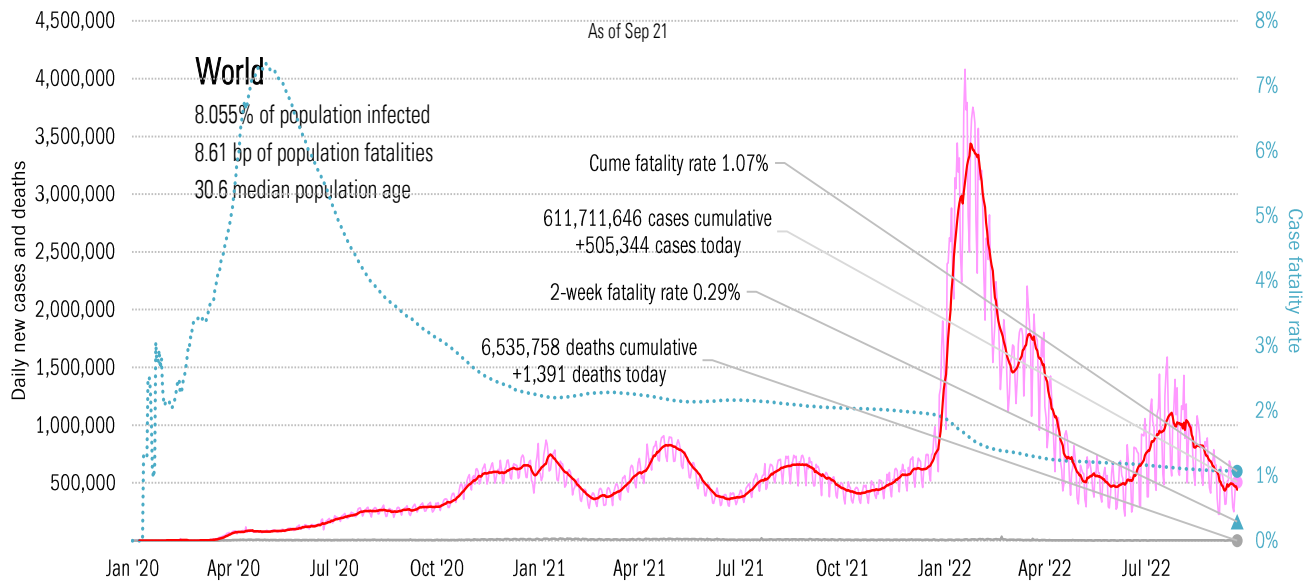
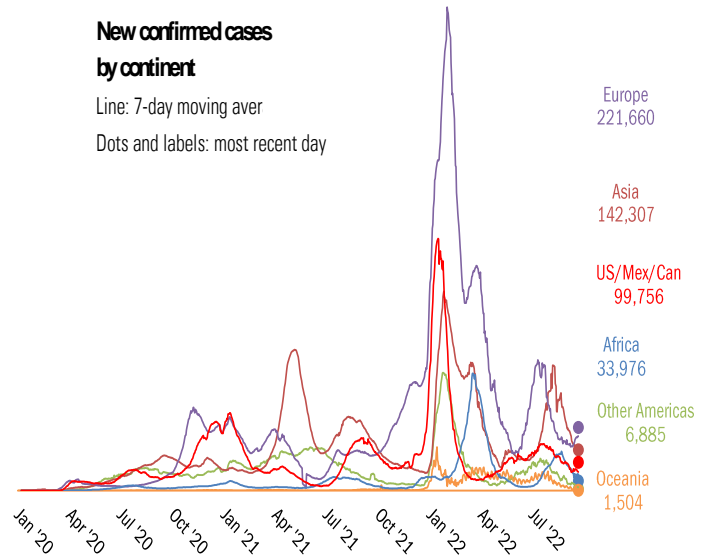
Cases: 7-day average and daily Deaths: Daily

#### The worst ten countries

New cases		New Deaths	
United States	75,688	United States	563
Japan	69,804	Japan	126
Germany	56,978	Germany	106
Russia	52,633	Russia	105
Taiwan*	46,834	Korea, South	59
France	38,303	Hungary	48
Korea, South	32,972	Italy	46
Italy	21,188	Taiwan*	39
Hungary	12,307	Philippines	37
Austria	8,510	Canada	34
<b>415,217</b>		<b>1,163</b>	
World	505,344	World	1,391
Top ten	82%	Top ten	84%

#### New confirmed cases by continent

Line: 7-day moving aver  
 Dots and labels: most recent day



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

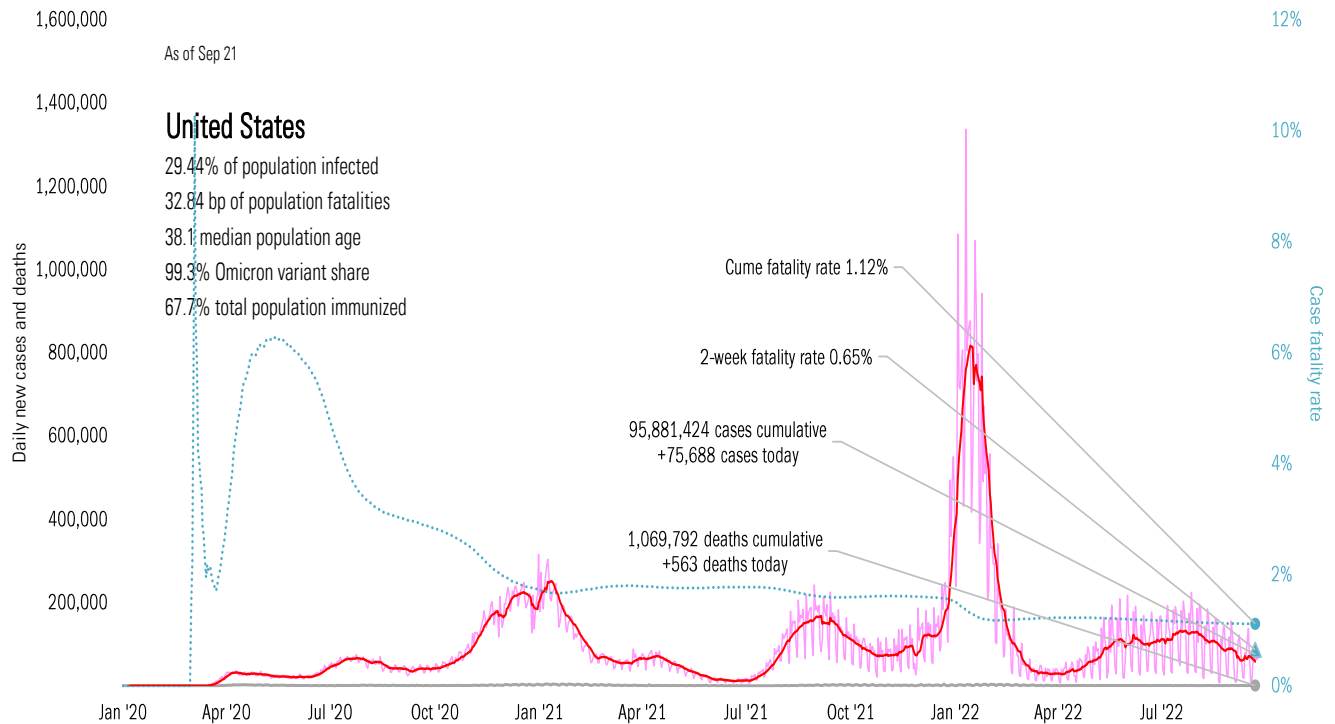
## The ten worst US states

New cases			New deaths			New in hospital			Cumulative cases			Cumulative deaths			Cumulative in hospital			Hospital use		ICU use	
PA	16,515		TX	57		NJ	140		CA	11,205,815		CA	95,632		TX	543,546		RI	90%	TX	89%
TX	6,021		FL	53		NY	317		TX	7,966,772		TX	90,723		CA	496,832		MA	87%	NM	88%
NY	4,988		MO	40		MO	104		FL	7,116,330		FL	81,031		FL	491,137		GA	86%	AK	87%
NJ	3,738		CA	31		MA	118		NY	6,076,629		NY	71,600		NY	296,857		MN	85%	RI	86%
IL	3,438		WA	30		MT	28		IL	3,743,788		PA	47,098		GA	225,074		MO	85%	MA	85%
CH	2,936		IN	27		ID	23		PA	3,239,298		GA	40,171		CH	216,790		DE	83%	AL	84%
NC	2,898		NY	26		ND	12		NC	3,182,775		CH	39,675		PA	202,247		WA	83%	NH	83%
KS	2,650		IL	22		MD	74		CH	3,117,109		IL	39,598		IL	185,427		MI	82%	WA	82%
MI	2,414		MI	21		CR	40		GA	2,900,354		MI	38,464		MI	161,315		NH	82%	CR	81%
WA	2,148		GA	21		SD	23		MI	2,821,489		NJ	34,694		KY	144,530		DC	82%	GA	81%
47,746			328			879			51,370,359			578,686			2,963,755						
All states	75,688			563			4,088		All states	95,881,424			1,069,792			5,375,849		All states	70%		67%
Top ten	63%			58%			22%		Top ten	54%			55%			55%		Median	76%		73%

Some states not reporting

## Five most improved US states

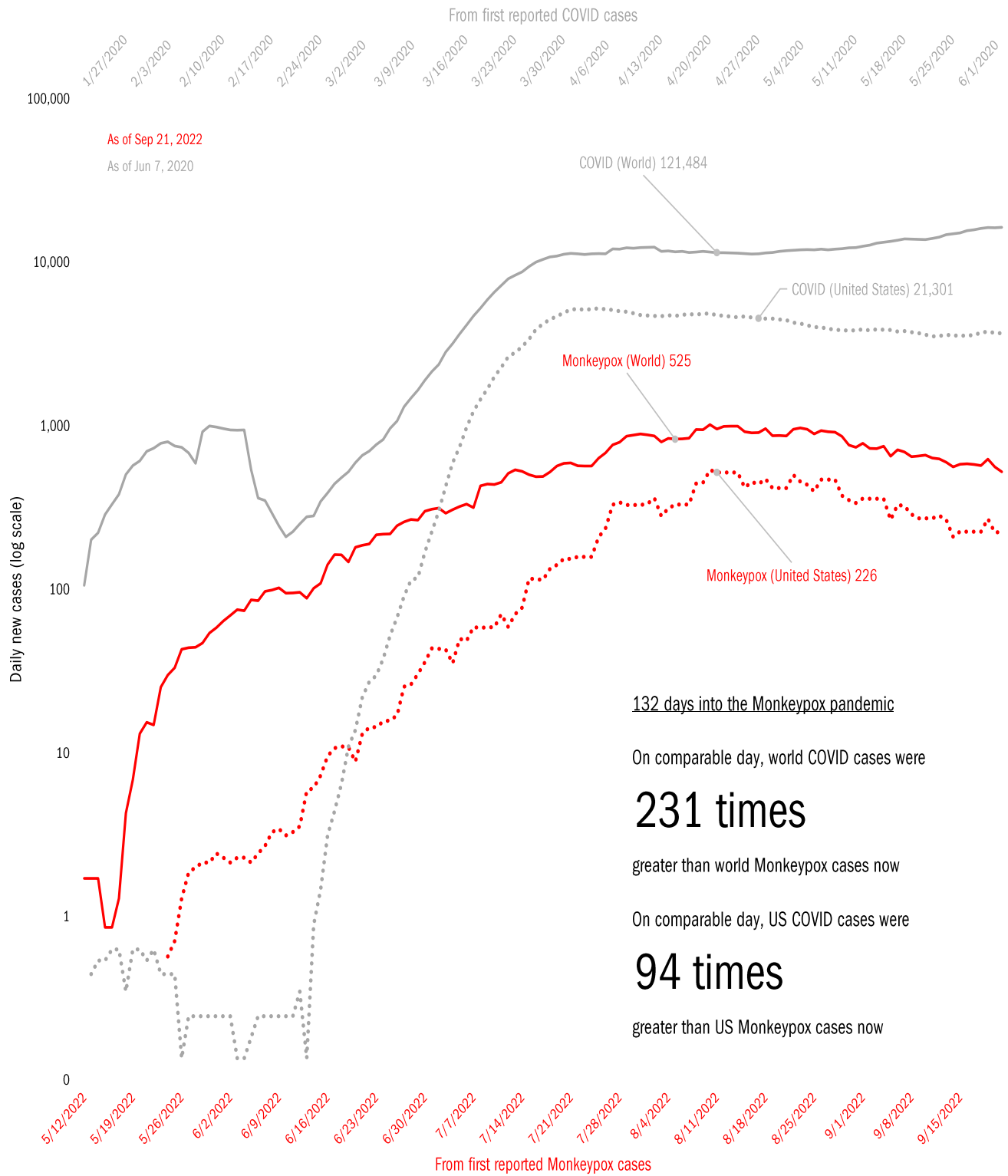
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
KS	-1,597	NY	-24	CA	-67
MD	-1,019	AR	-13	CO	-48
WA	-686	CT	-12	NC	-43
NE	-495	MD	-7	KS	-42
AZ	-303	NJ	-5	FL	-30



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

# The Monkeypox contextualizer

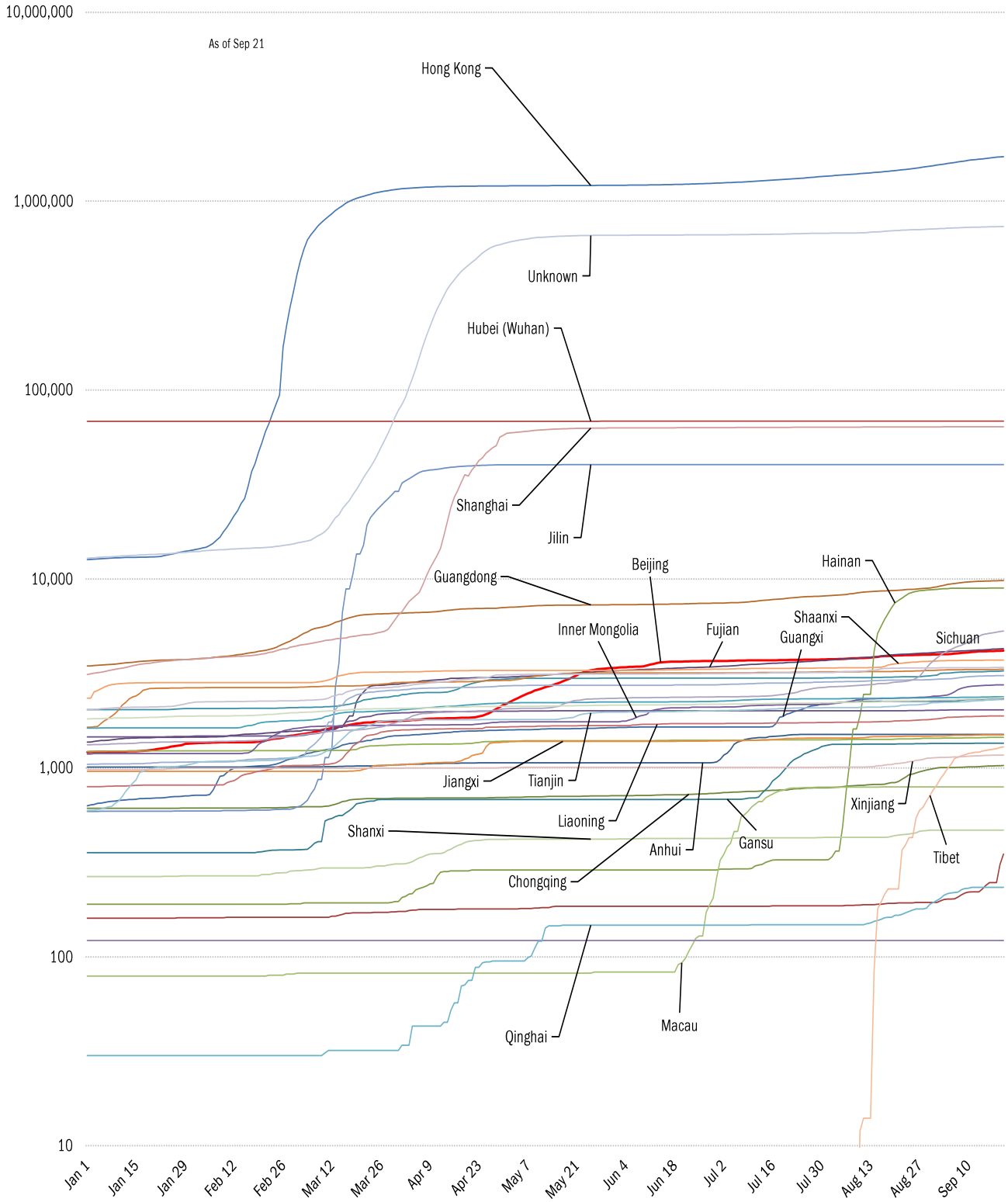
## The course of case growth versus COVID



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

# China provincial coronavirus case accelerometer... tracking the "zero Covid" curves

*Cumulative reported cases this year, log scale: flat line indicates "zero Covid"*

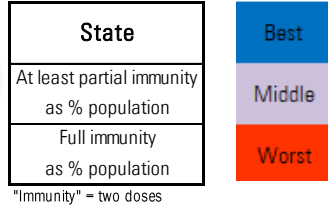
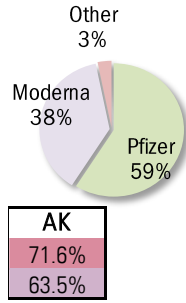


Source: [Johns Hopkins](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

Updates weekly on Friday

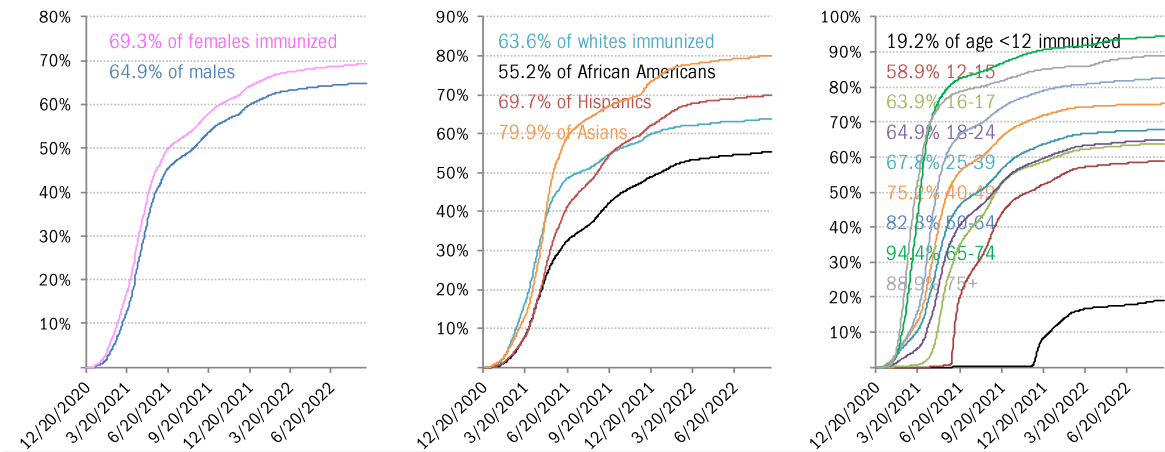
Administered	Cumulative		Today	Immunity	Full	Partial
Doses	628,212,647		+0.301 million	US	67.7%	79.3%
of which boosters	111,339,704		+0.036 million	UK	75.4%	80.0%
	One dose	% Pop	Immune	% pop	New immune today	
Total population	271,603,286	81%	231,176,587	69%	+0.039 million	France 78.7% 80.9%
Age 12 to 17	18,184,016	72%	15,537,763	61%	+0.002 million	Spain 85.6% 87.0%
Age 18 to 64	181,166,913	89%	153,880,774	76%	+0.019 million	Germany 76.1% 77.7%
Age 65 and over	59,792,035	100%	52,310,508	95%	+0.007 million	Italy 81.0% 85.8%
						Australia 84.0% 86.5%
						Israel 66.2% 72.3%
						Canada 82.7% 87.0%
						Japan 82.5% 83.6%
						Africa 22.6% 28.6%
						India 67.2% 72.9%
						Brazil 80.3% 87.1%
						China 89.1% 91.4%



As of Sep 16

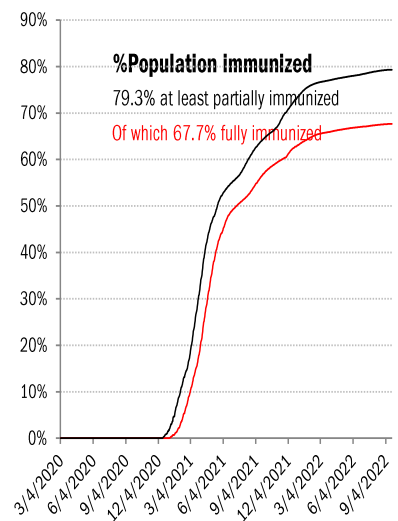
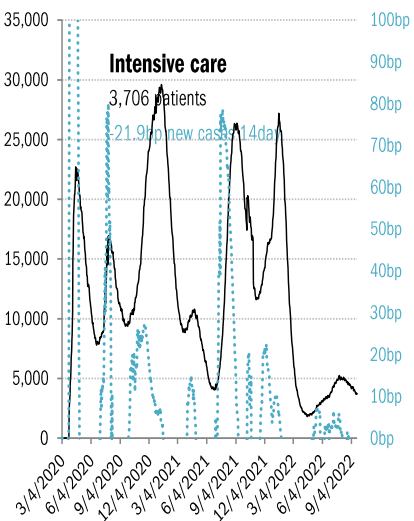
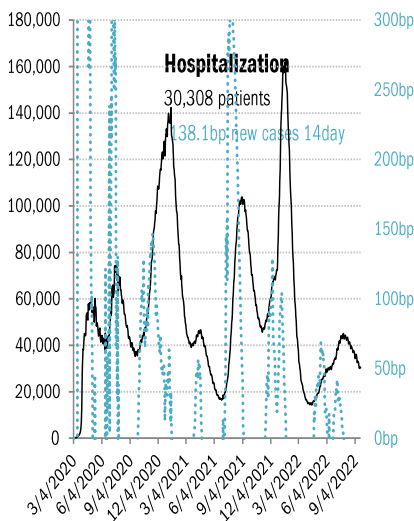
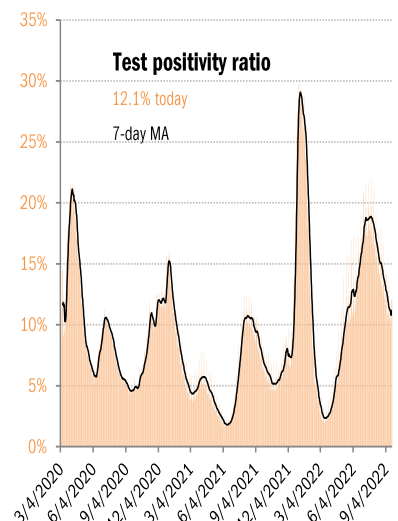
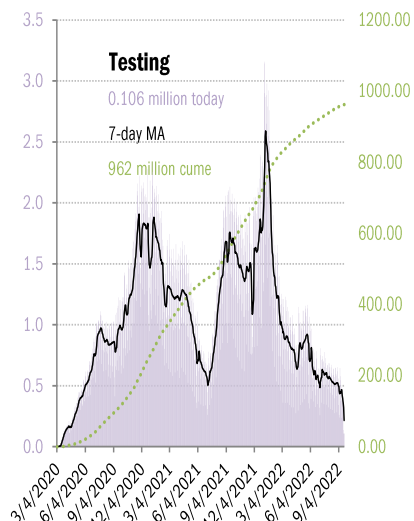
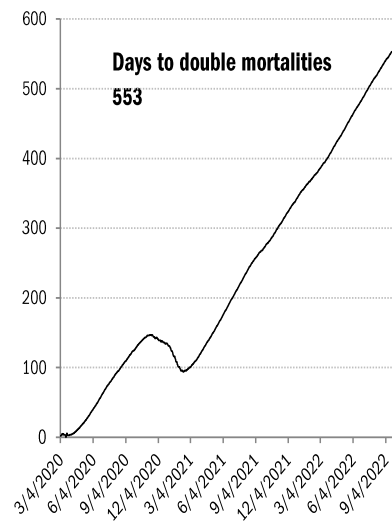
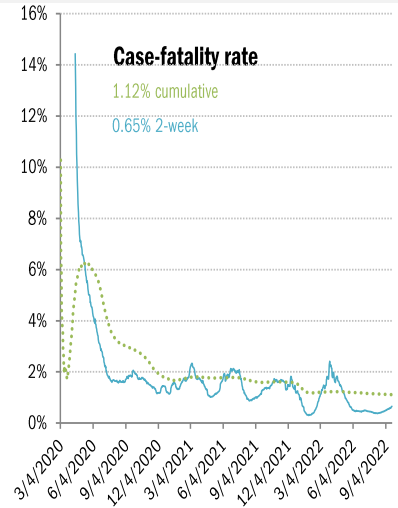
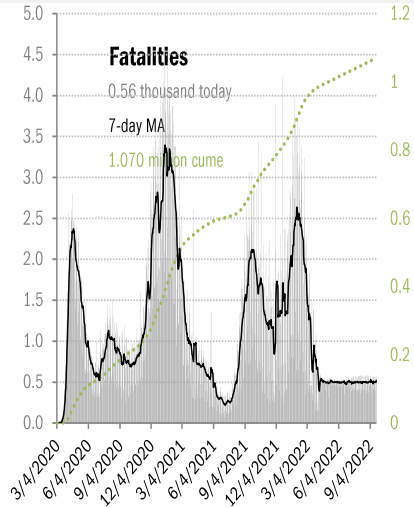
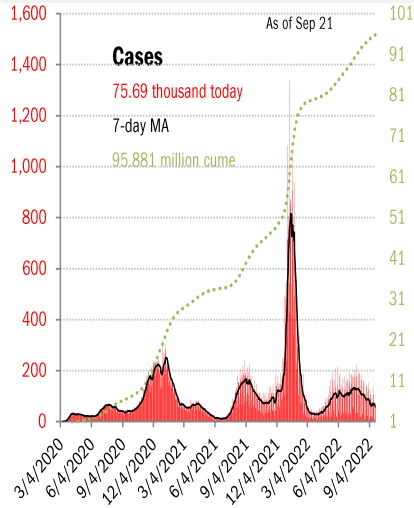
WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
83.0%	62.5%	66.7%	67.3%	76.9%	77.4%	68.2%	92.2%	95.0%	91.0%	
73.9%	55.2%	57.9%	56.8%	70.5%	69.7%	61.2%	78.6%	83.0%	72.6%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
79.5%	77.1%	59.3%	79.5%	69.3%	63.2%	64.5%	87.7%	92.5%	95.0%	
70.8%	62.1%	51.9%	63.9%	63.0%	56.9%	59.4%	70.7%	77.2%	81.0%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
84.2%	73.8%	81.5%	71.8%	67.7%	67.5%	66.3%	88.1%	89.1%	95.0%	95.0%
73.6%	65.5%	71.7%	64.8%	57.4%	58.5%	58.7%	74.8%	77.5%	80.9%	85.1%
AZ	NM	KS	AR	TN	NC	SC	DC	DE		
75.6%	90.6%	74.3%	68.3%	63.4%	87.6%	69.4%	95.0%	85.4%		
63.2%	72.9%	63.5%	55.7%	55.5%	63.7%	58.4%	79.3%	71.0%		
OK	LA	MS	AL	GA						
72.8%	62.1%	60.9%	64.0%	67.1%						
58.7%	54.4%	53.0%	52.2%	56.1%						
TX										
74.7%										
62.1%										
HI										
89.6%										
79.8%										
							FL		PR	
							81.0%		95.0%	
							68.3%		84.8%	

## The demographics of US vaccination

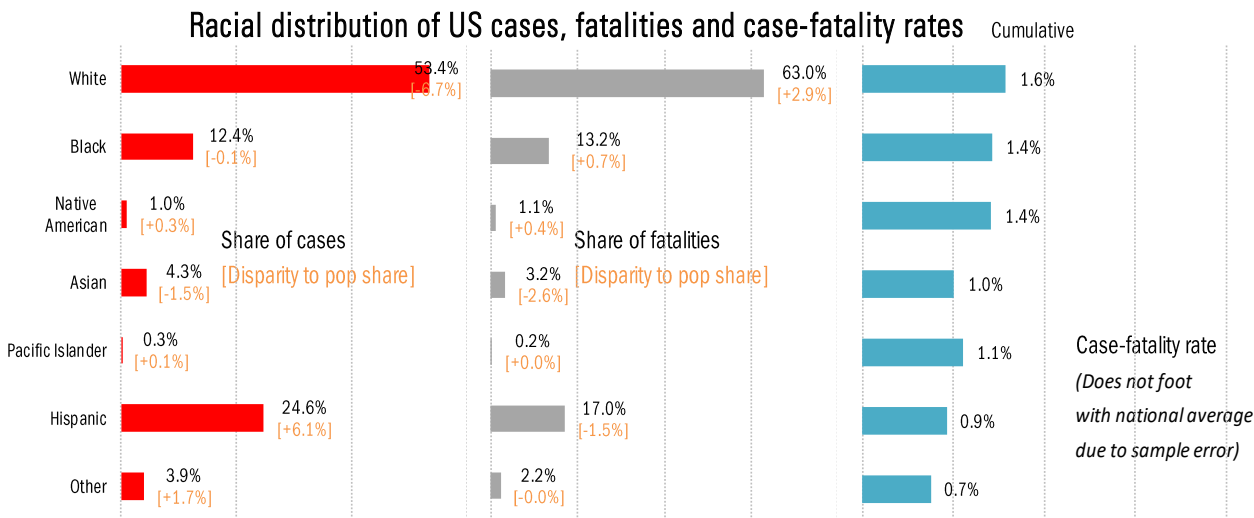
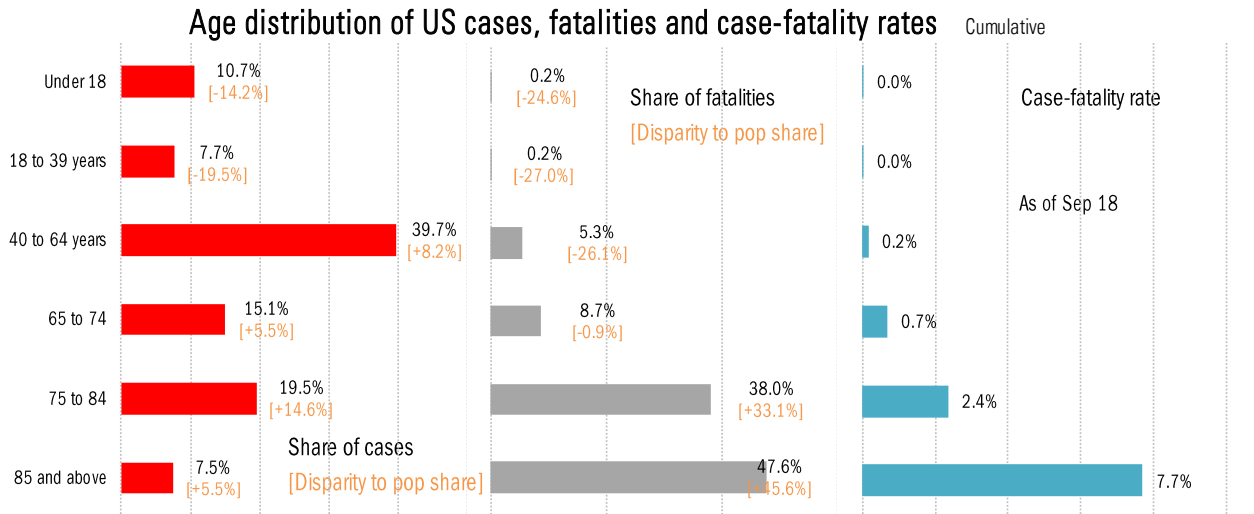


Source: CDC, CDC, Our World in Data, TrendMacro calculations

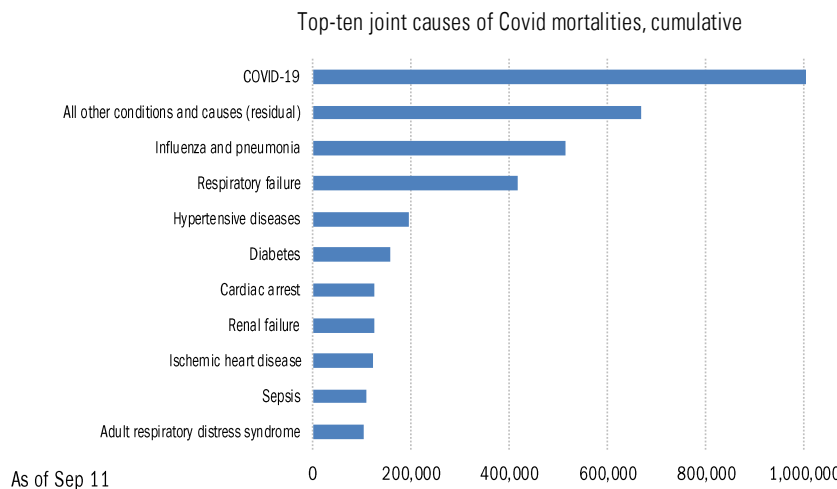
# US deep-dive



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.

Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

## Recommended reading

### [CDC Oversells the 'Bivalent' Covid Shot](#)

Paul A. Offit  
*Wall Street Journal*  
September 21, 2022

### [Covid Still Kills, but the Demographics of Its Victims Are Shifting](#)

Phillip Reese  
*Kaiser Health Network*  
September 21, 2022

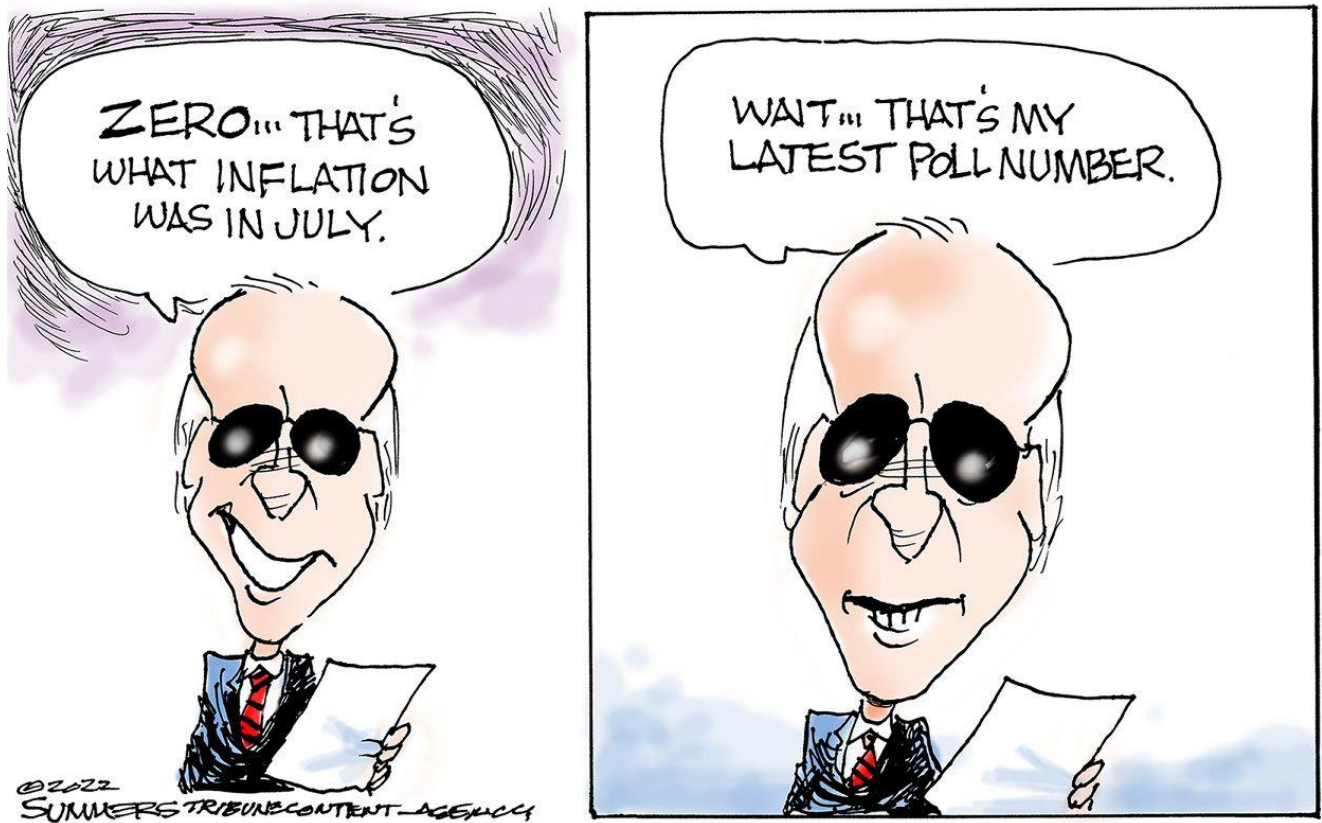
### [China's Vast 14,000-Bed Covid Isolation Center Revealed in Drone Footage](#)

Linda Lew  
*Bloomberg*  
September 21, 2022

### ['Highly suspect': DARPA tried to hire executive at Wuhan lab funder as COVID emerged, he says](#)

Greg Piper  
*Just the News*  
September 20, 2022

## Meme of the day

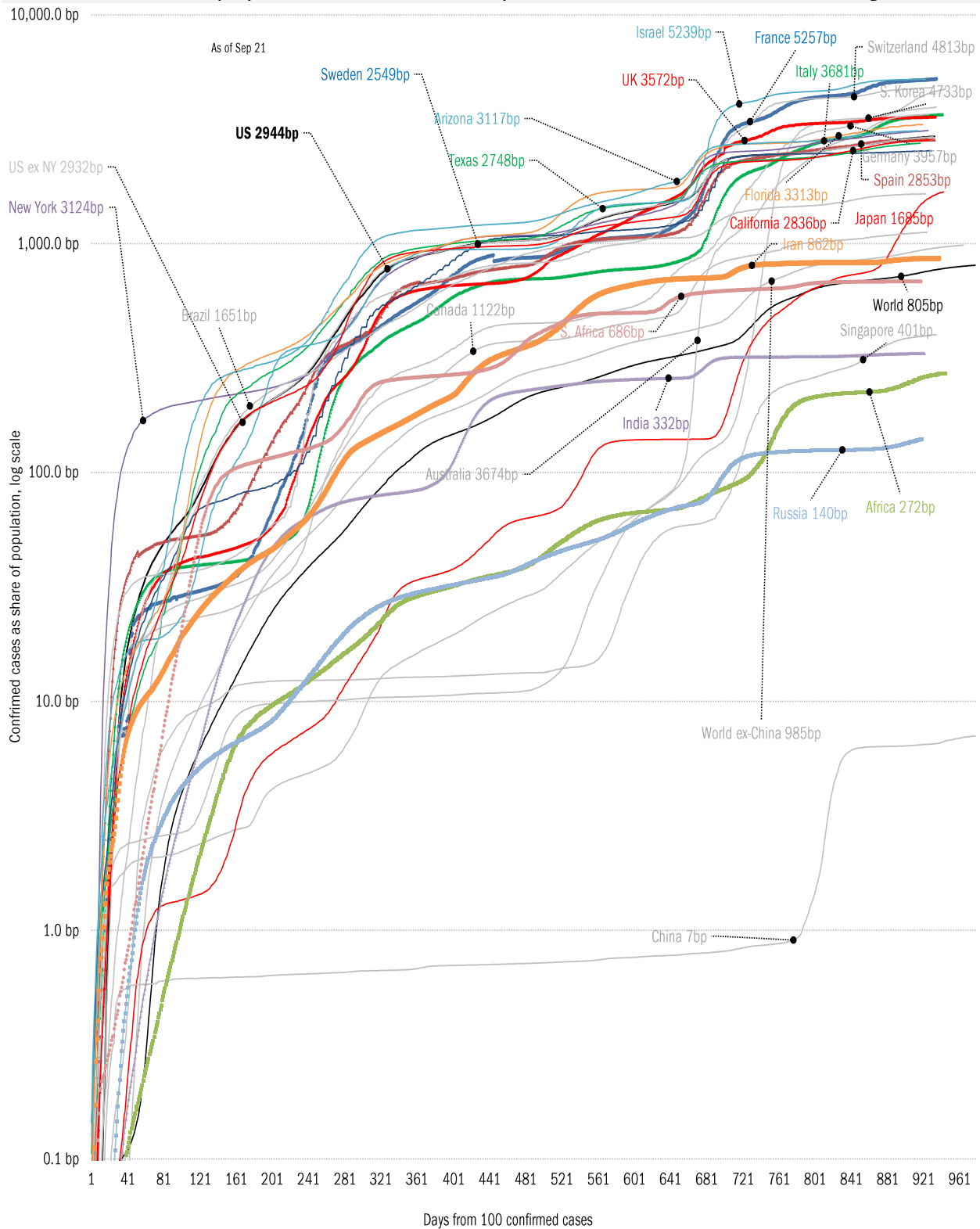


Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)



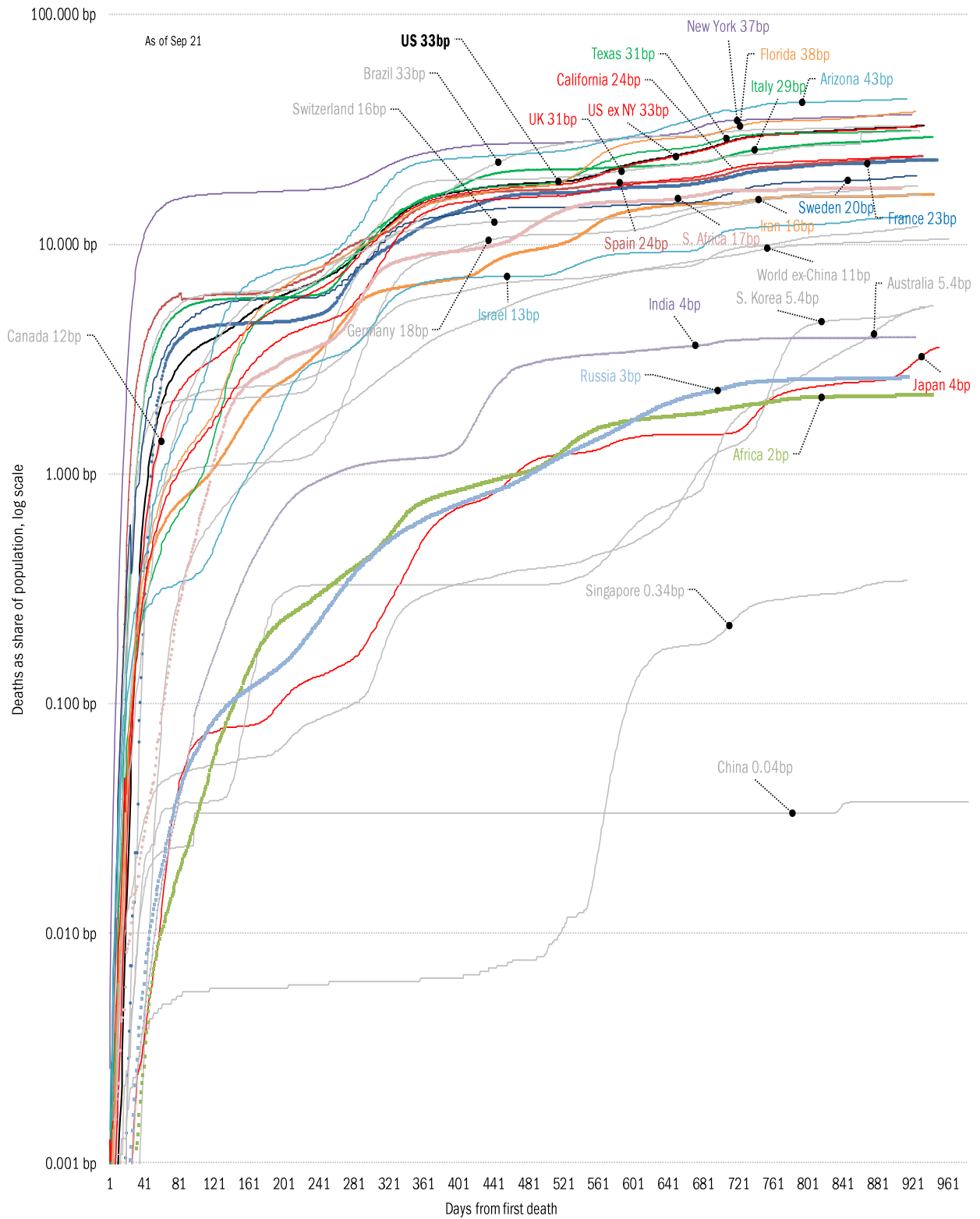
# The global coronavirus case accelerometer... tracking the world's infection curves

*Share of infected population from first day with 100 confirmed cases, log scale*



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

The global coronavirus mortality accelerometer ... tracking the world's fatality curves  
*Share of deceased population from day of first fatality, log scale*

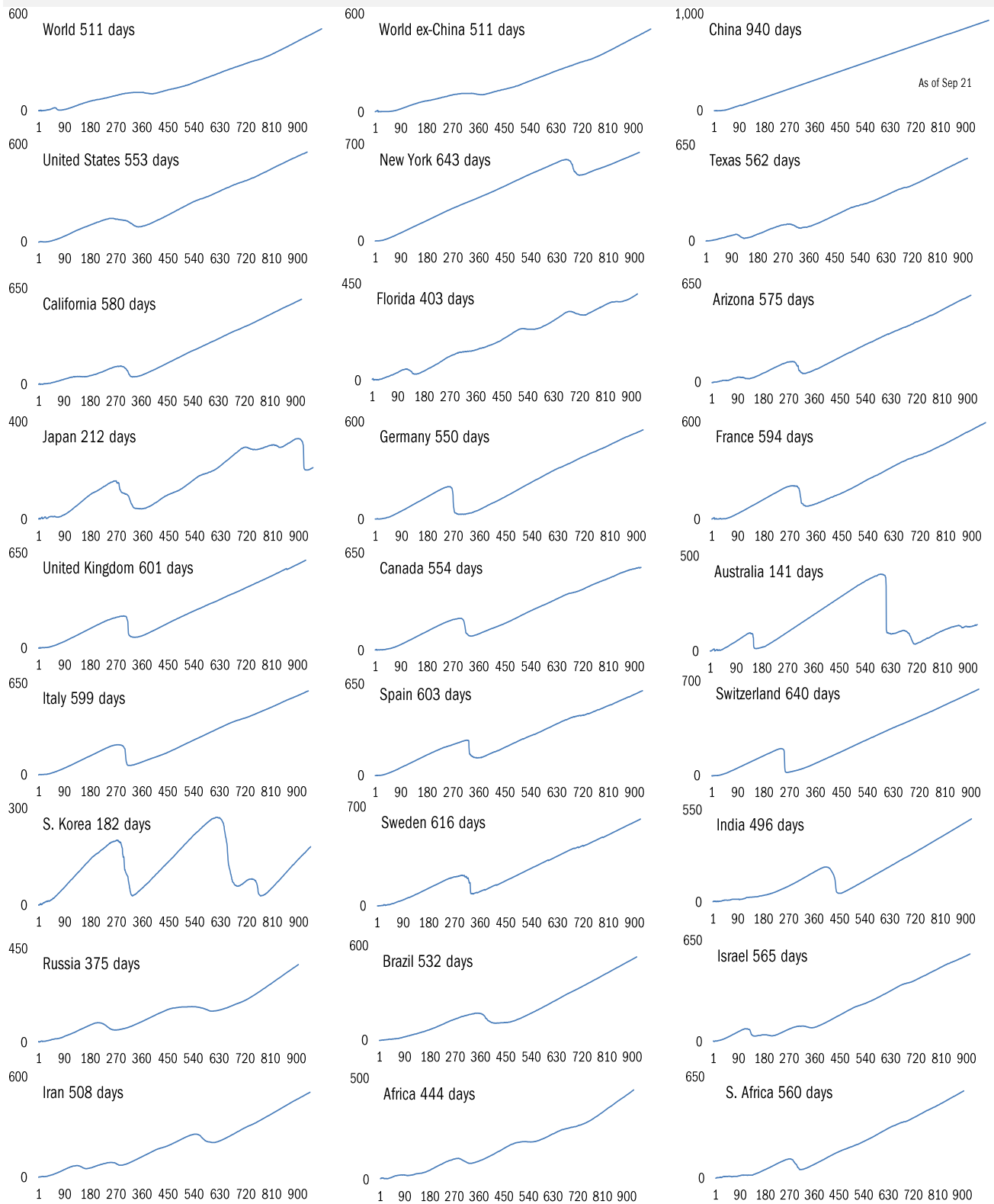


Source: [Johns Hopkins](#), TrendMacro calculations

# Our most reliable evidence of the rate of spread of Covid-2019

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

Higher is good Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

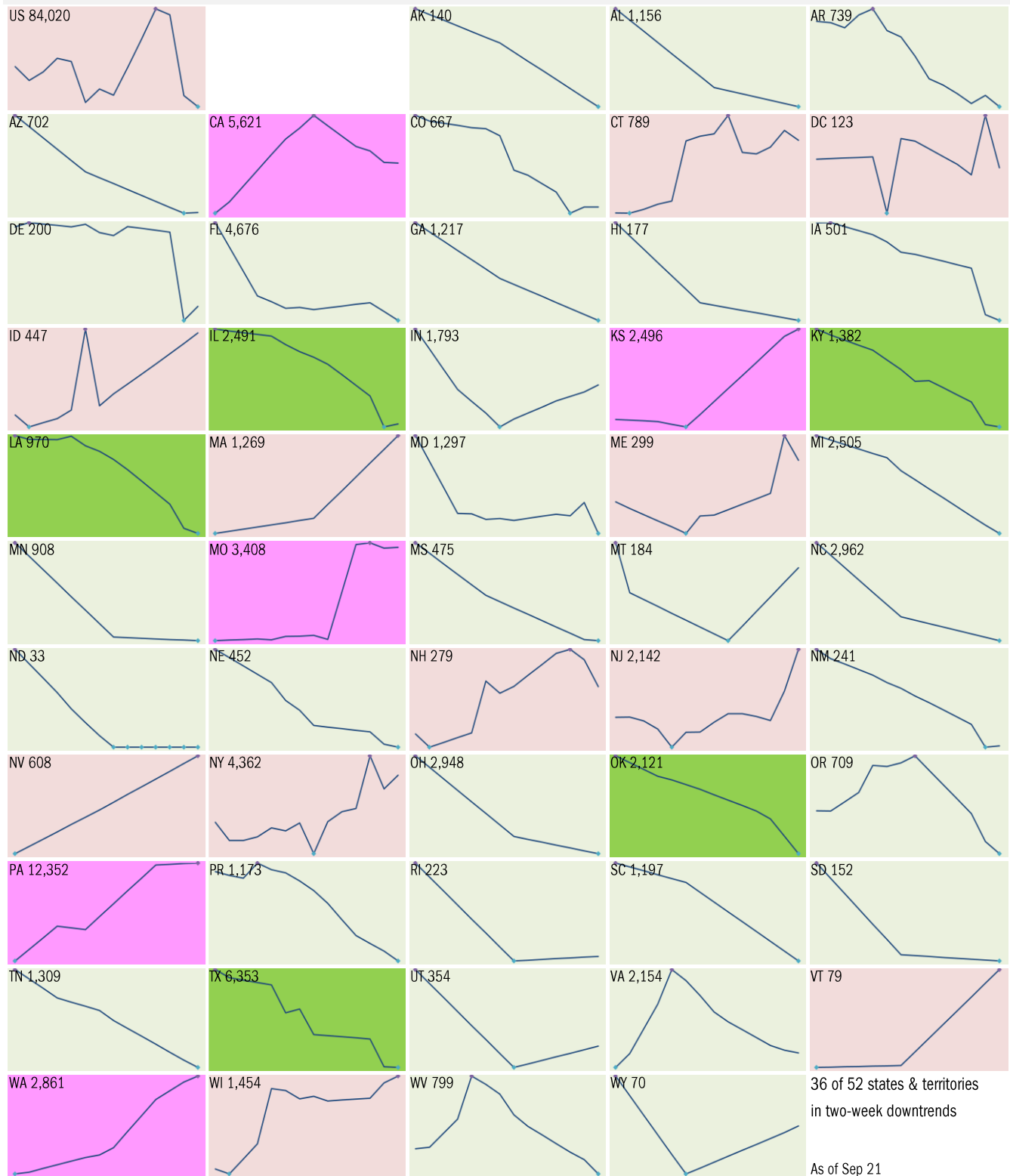


Source: [Johns Hopkins](#), TrendMacro calculations

# 14-day 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

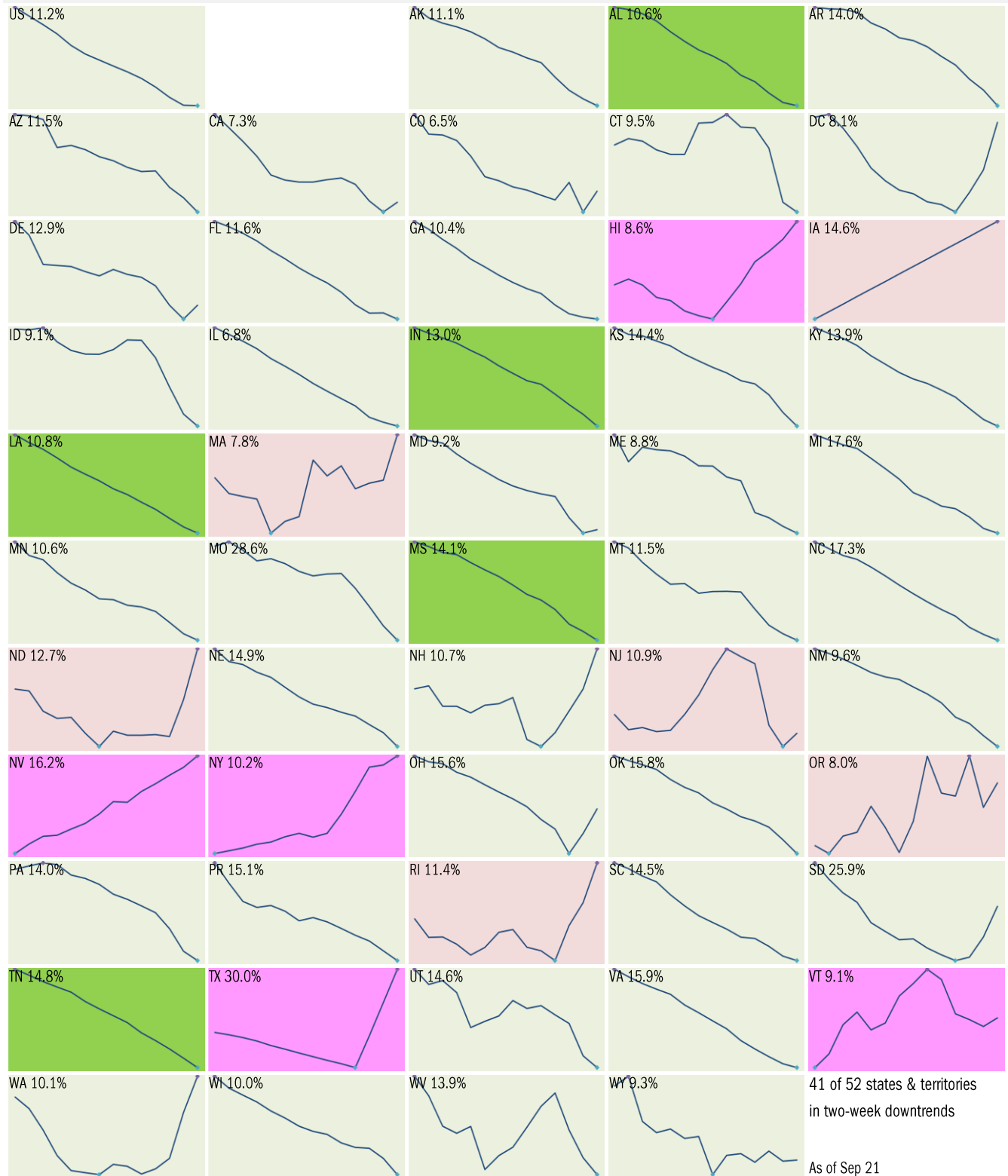


Source: [Johns Hopkins](#), TrendMacro calculations

# 14-day trajectory in test-positivity ratio

14-day moving average, last 14 days *Most recent value displayed* ● High ● Low

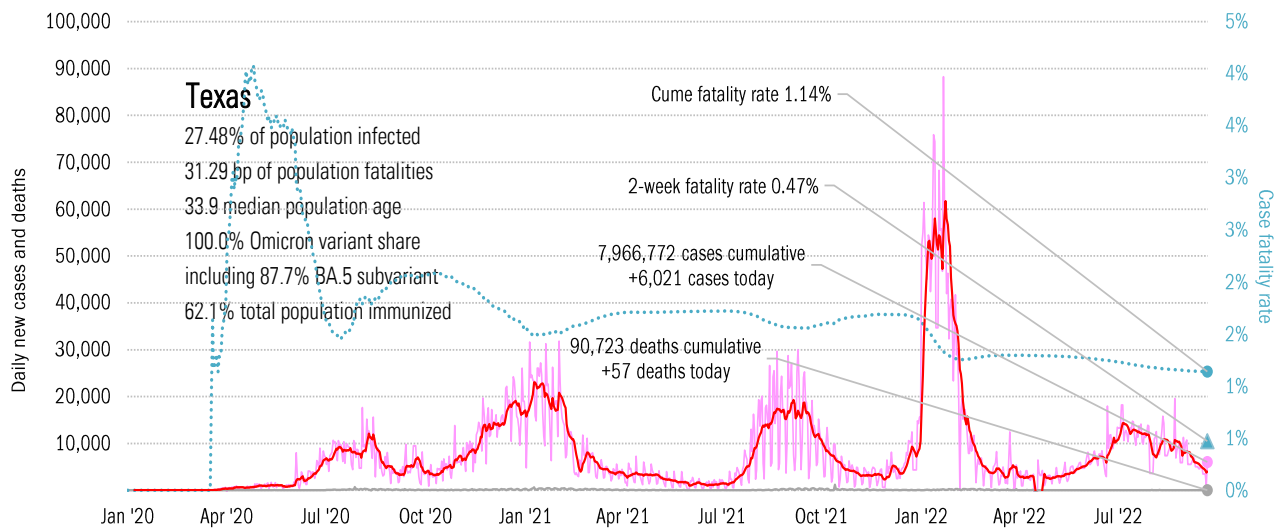
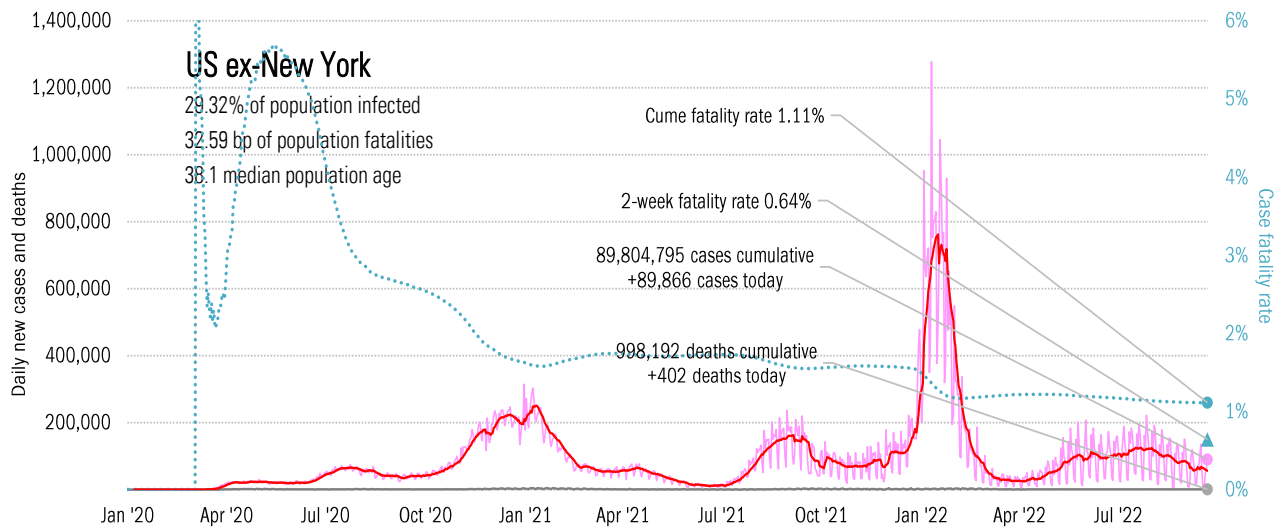
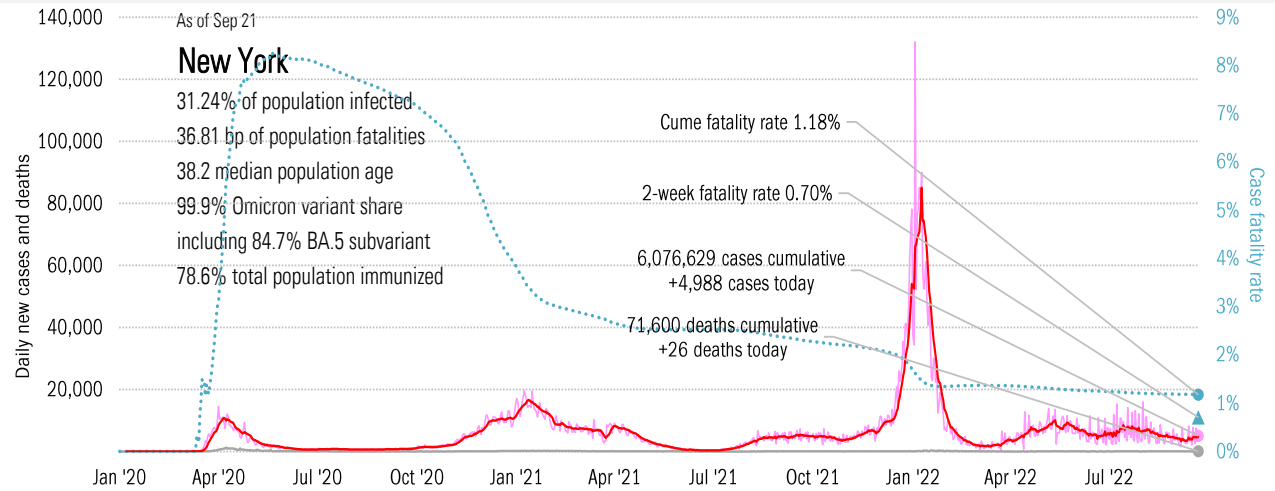
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

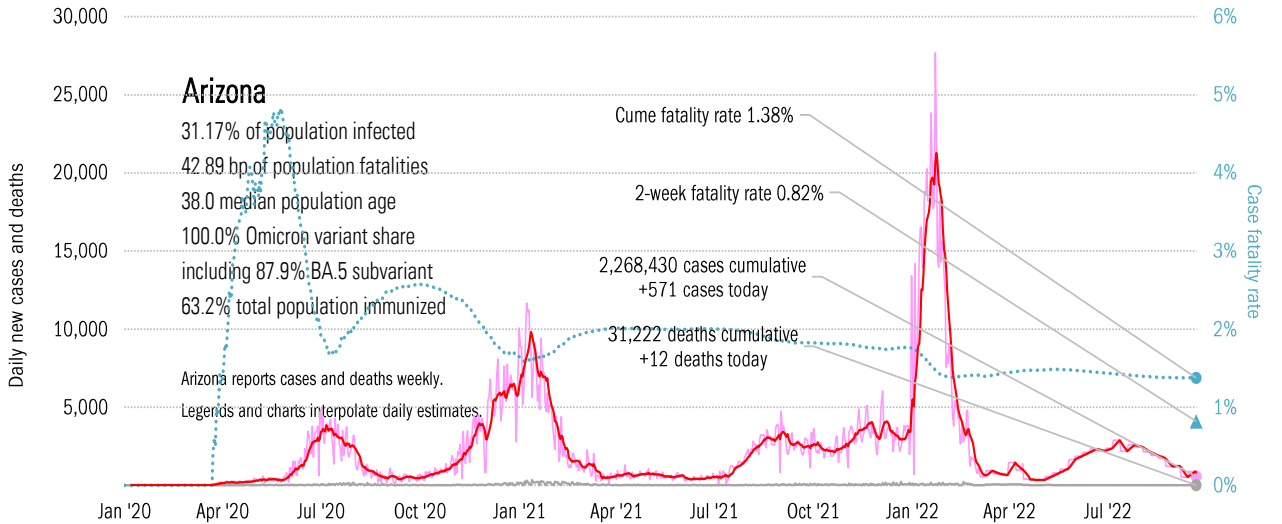
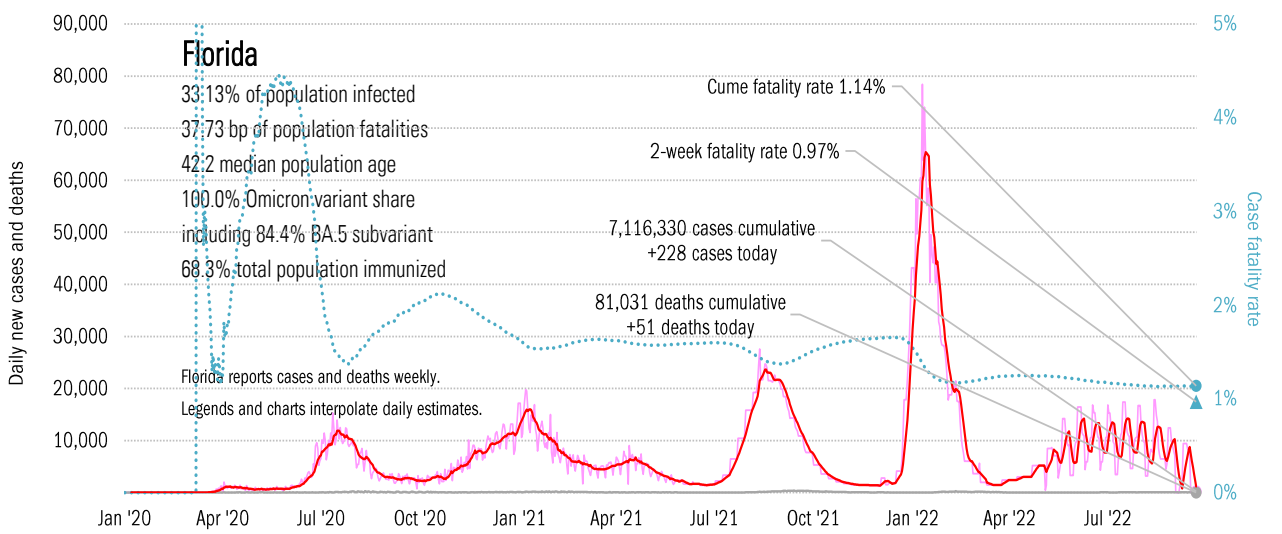
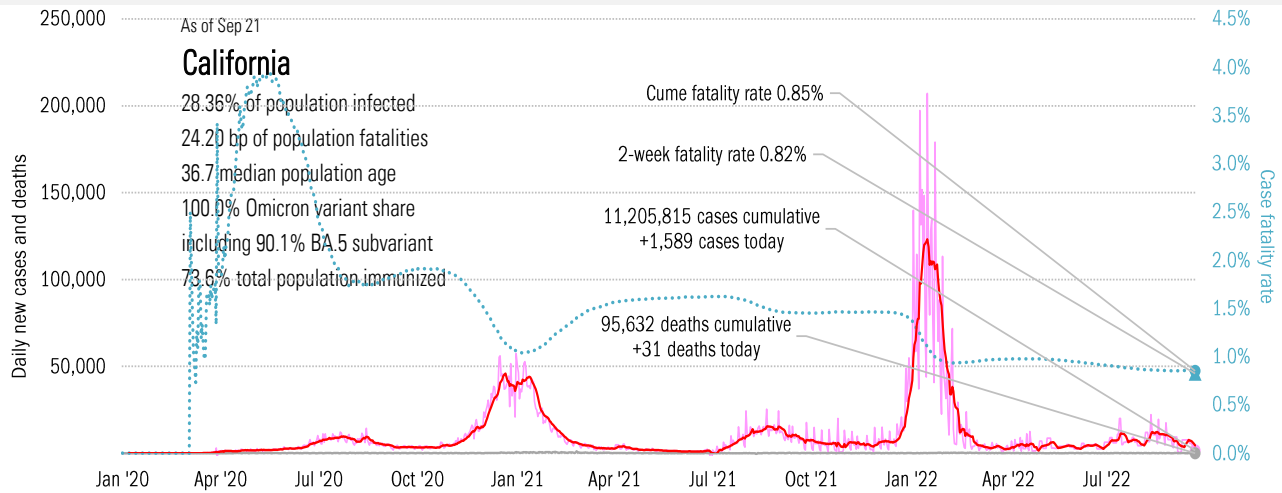
Cases: 7-day average and daily Deaths: Daily



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

# The sun-belt hot-spot states

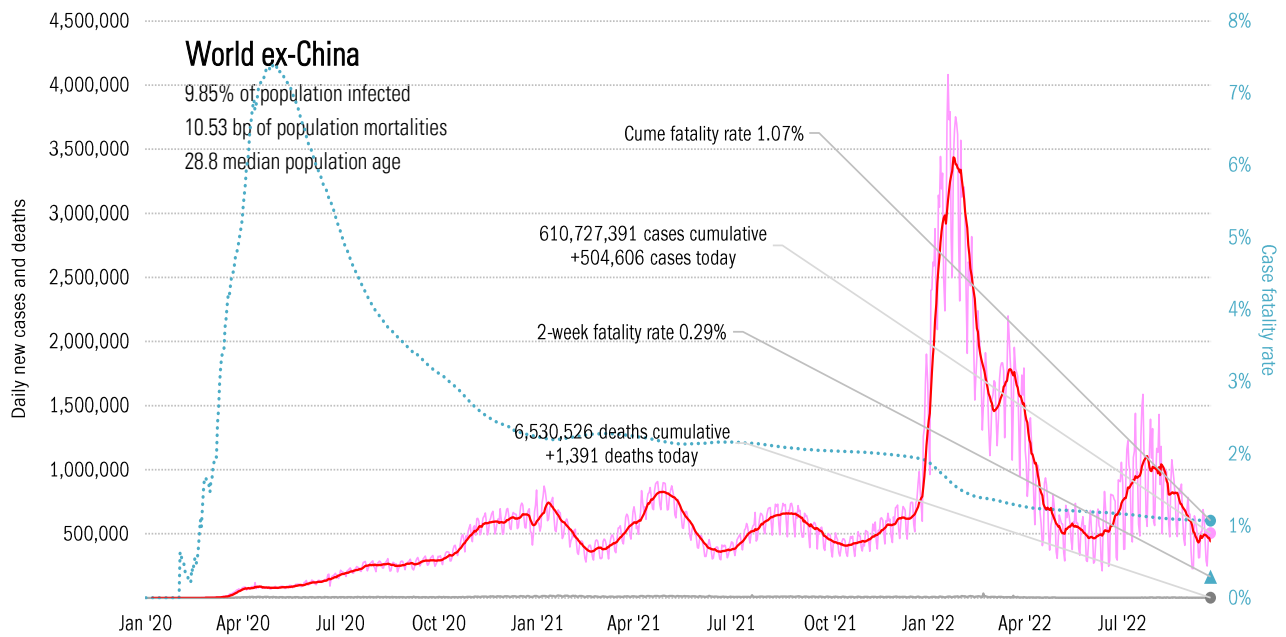
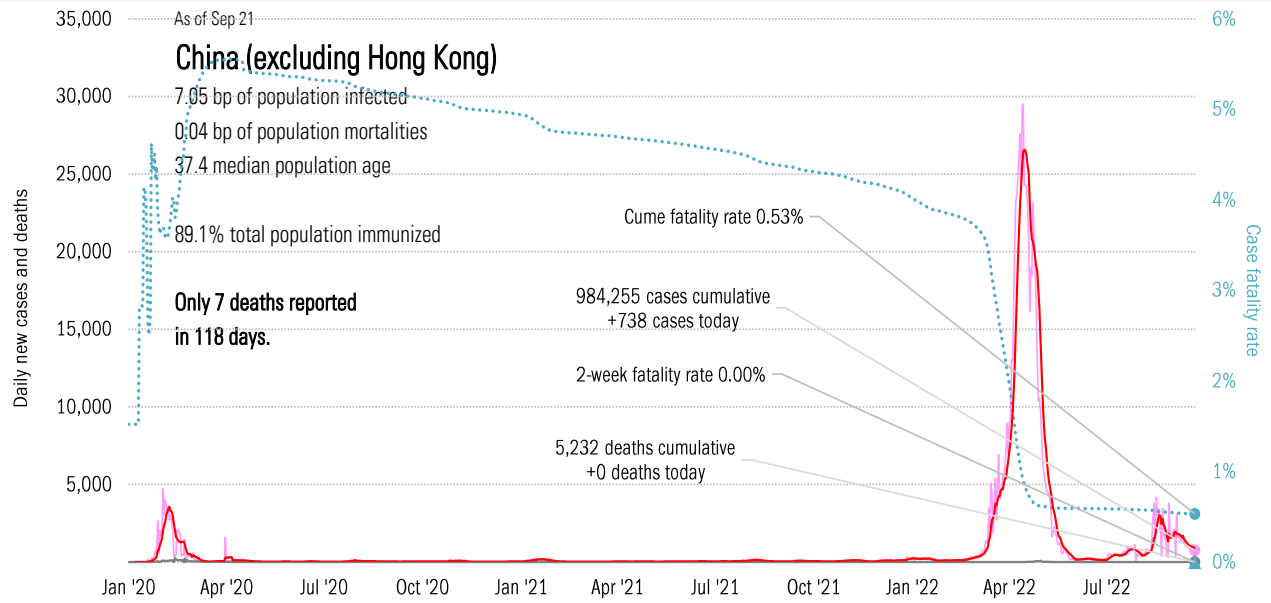
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

Cases: 7-day average and daily Deaths: Daily

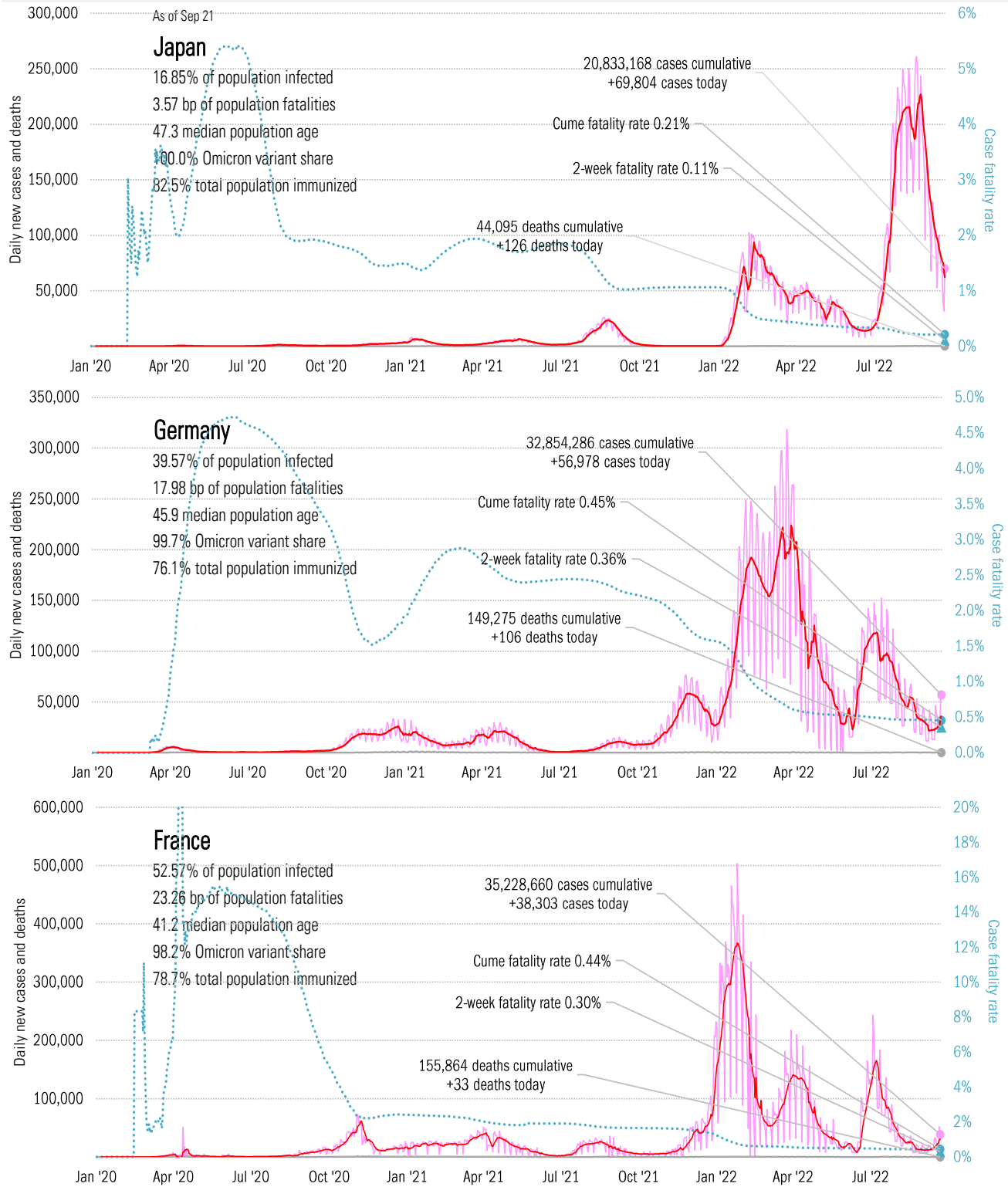


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in the largest economies

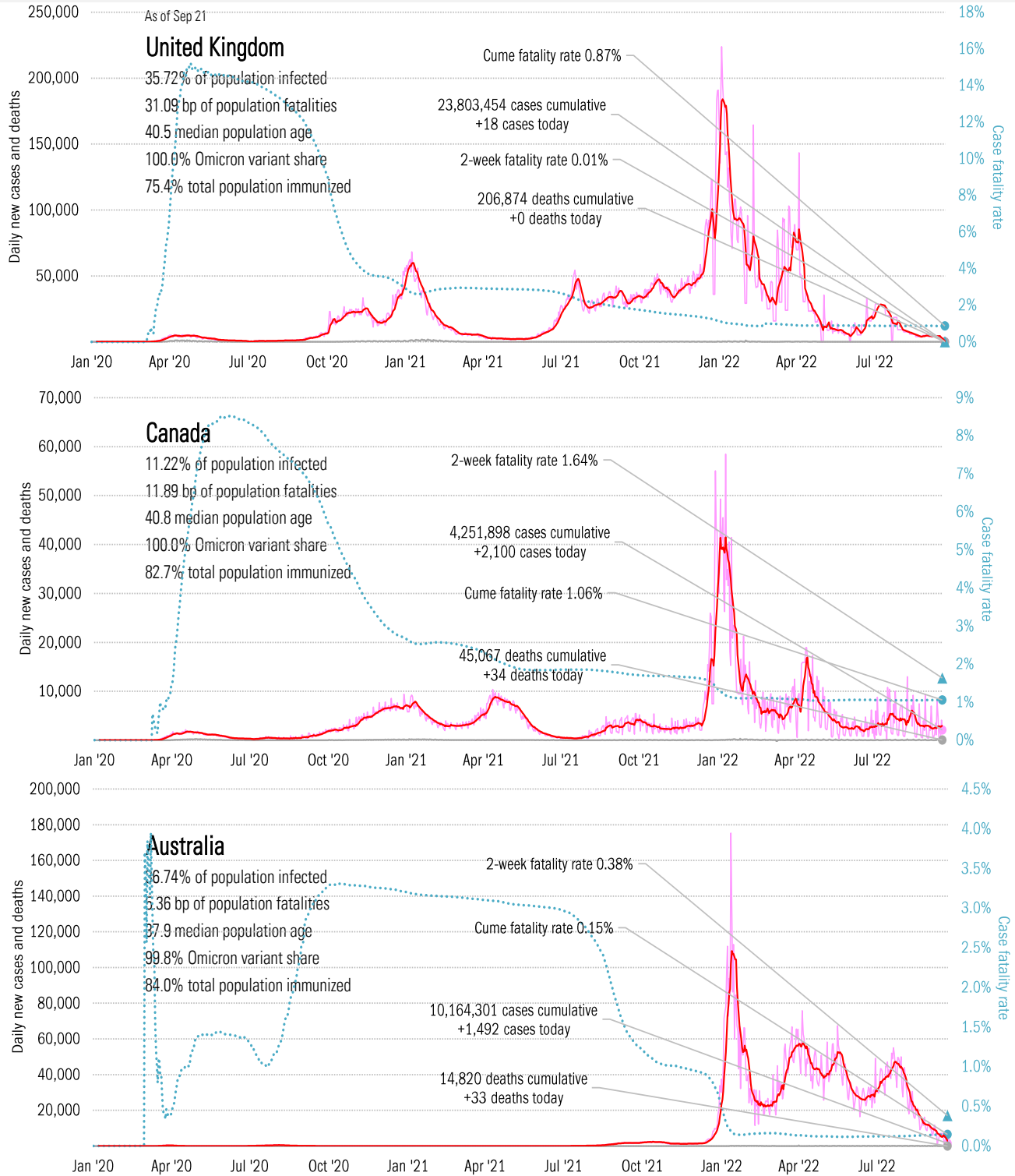
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

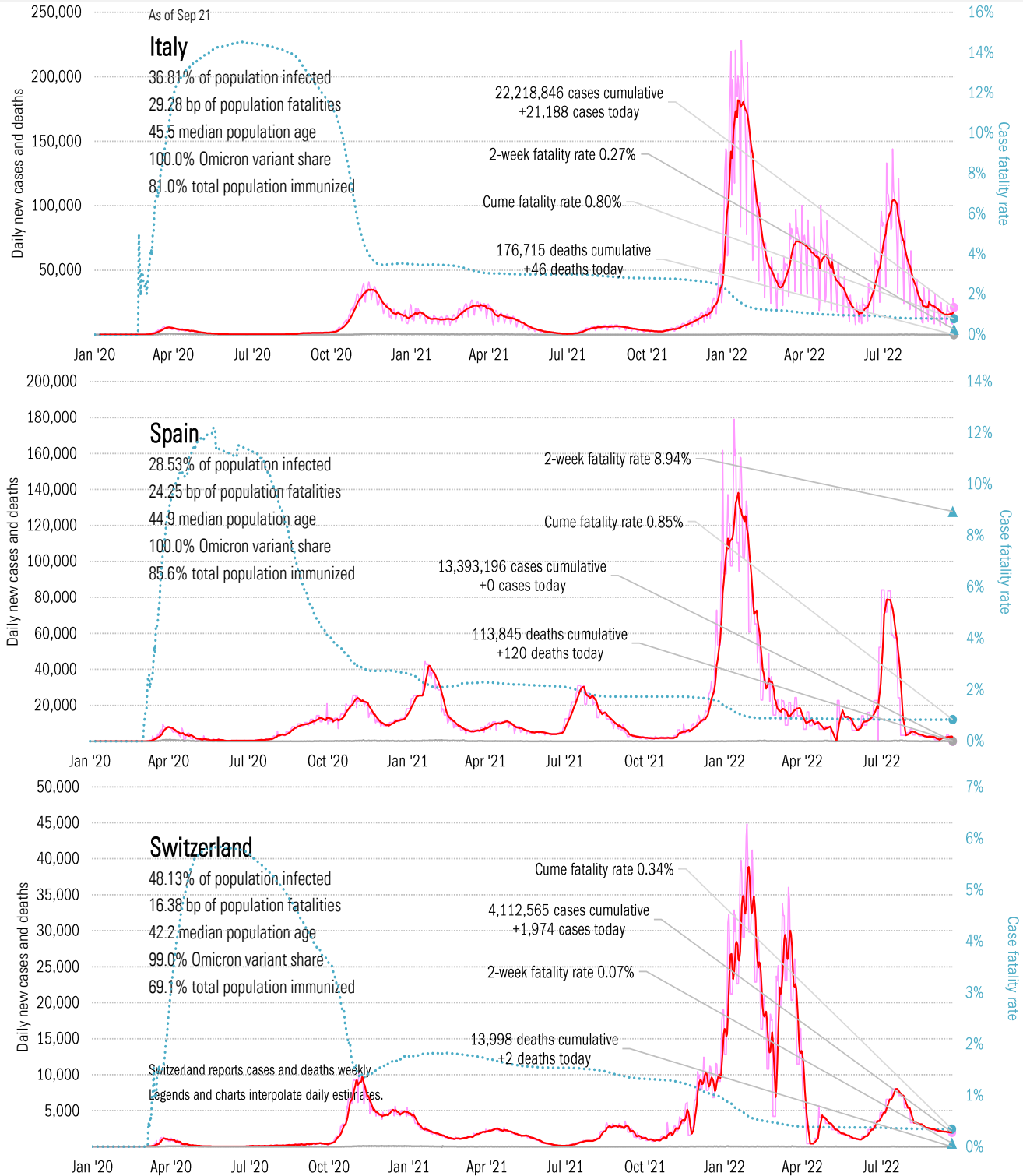
Cases: 7-day average and daily Deaths: Daily



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

# Impact in continental Europe

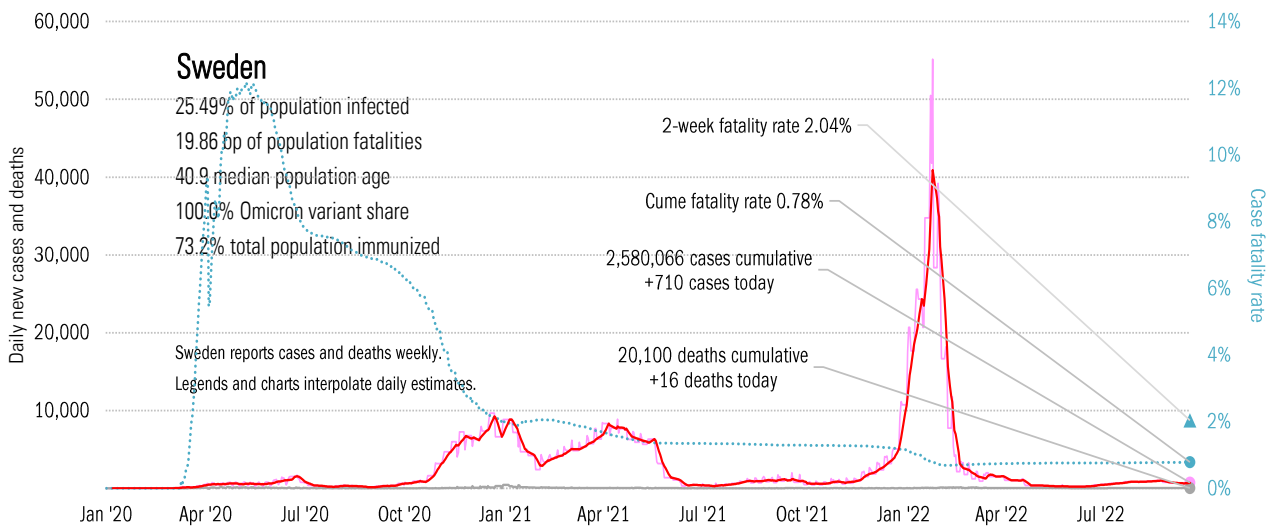
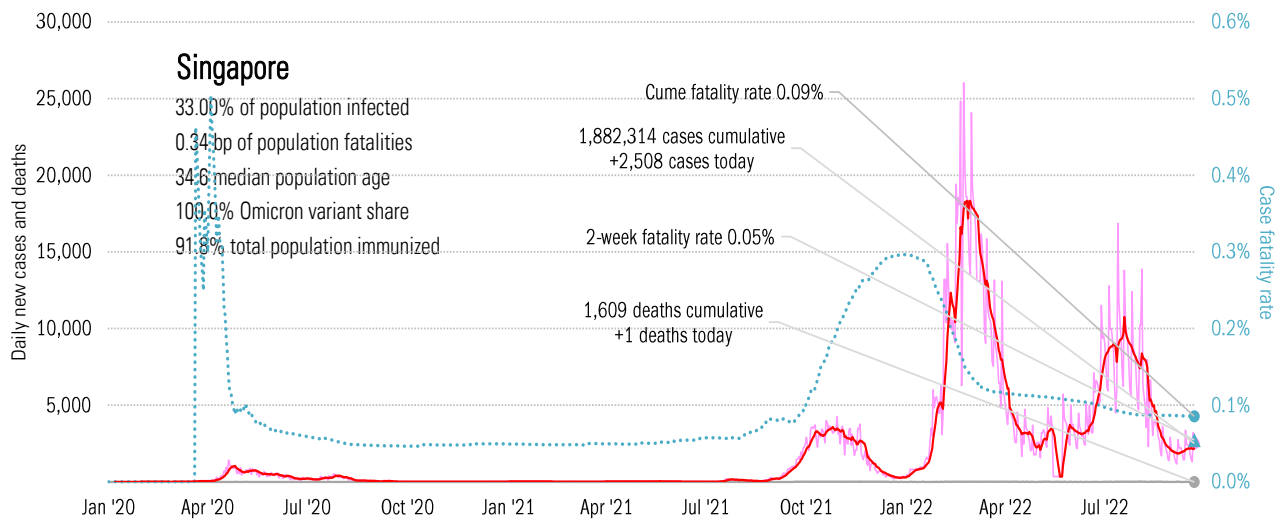
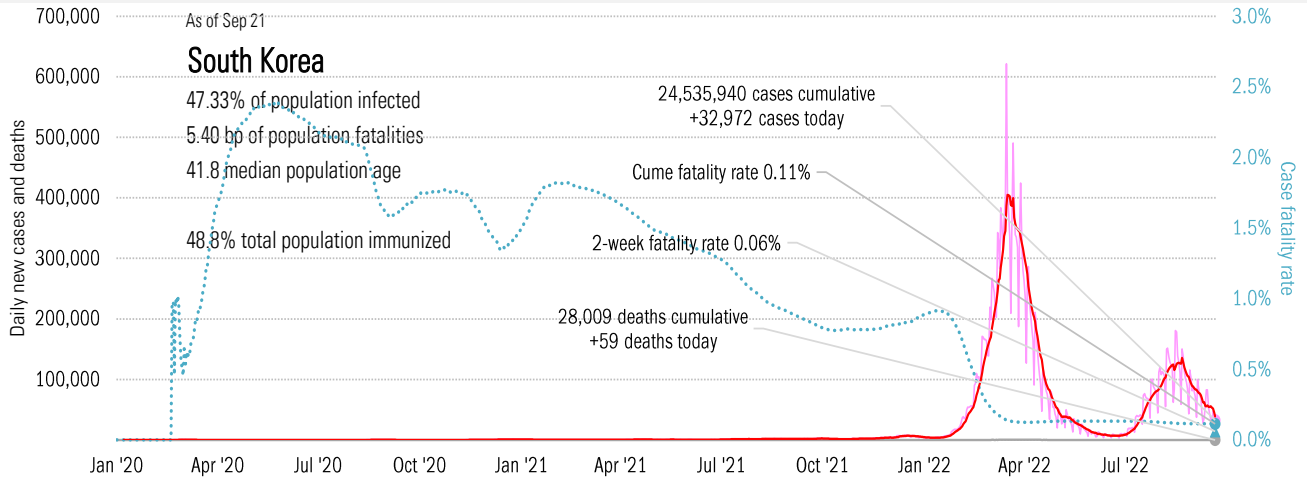
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

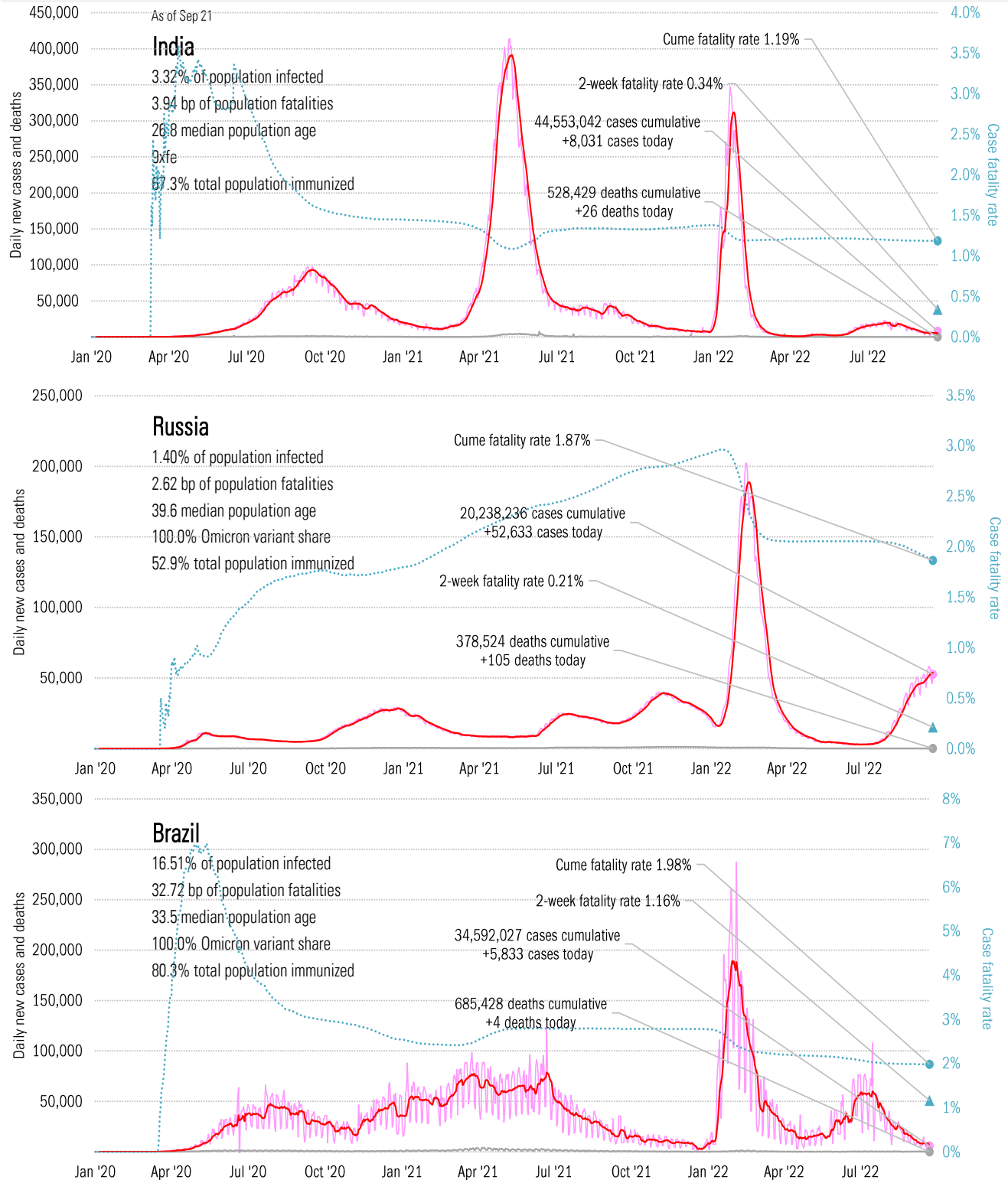
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

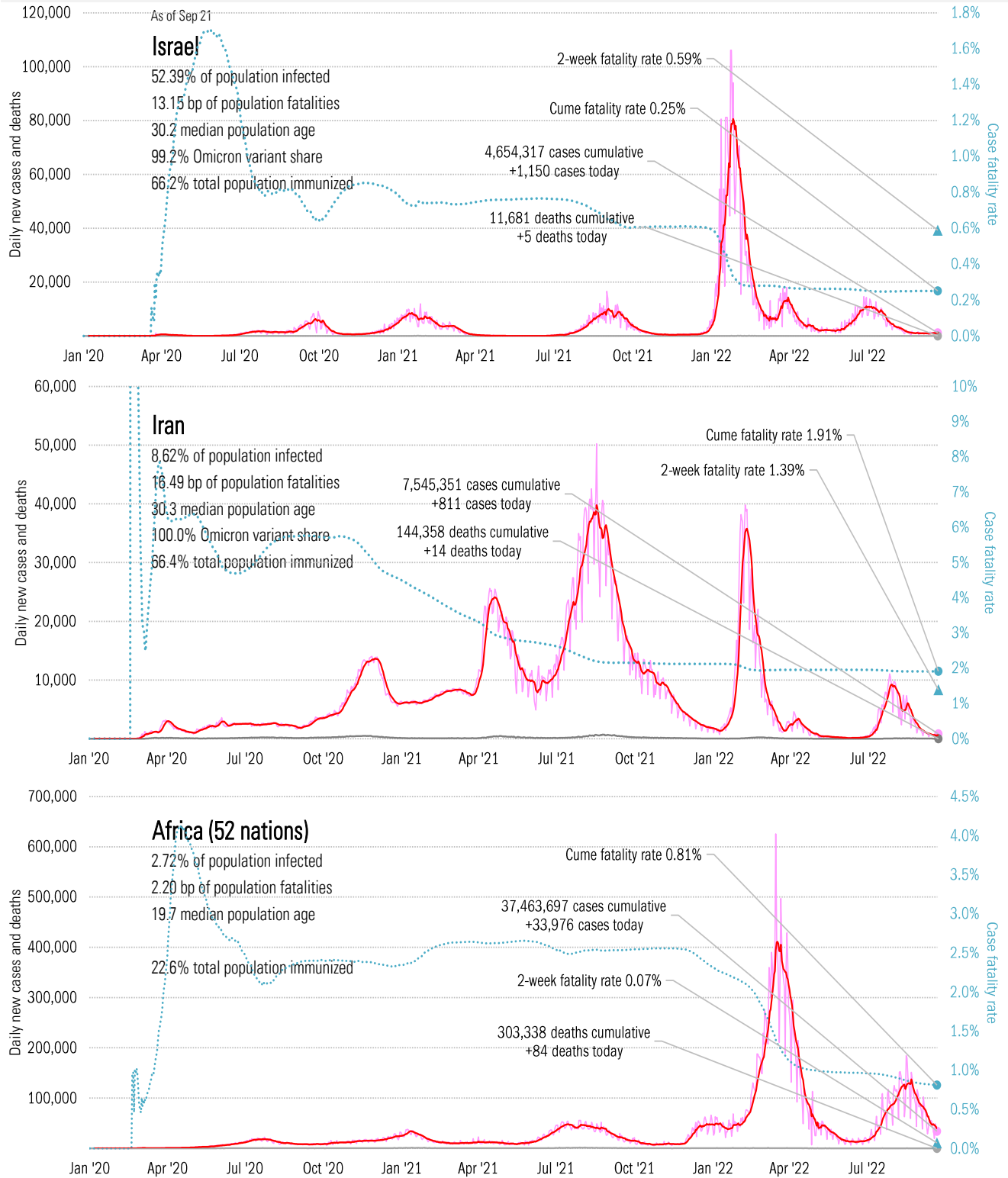
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

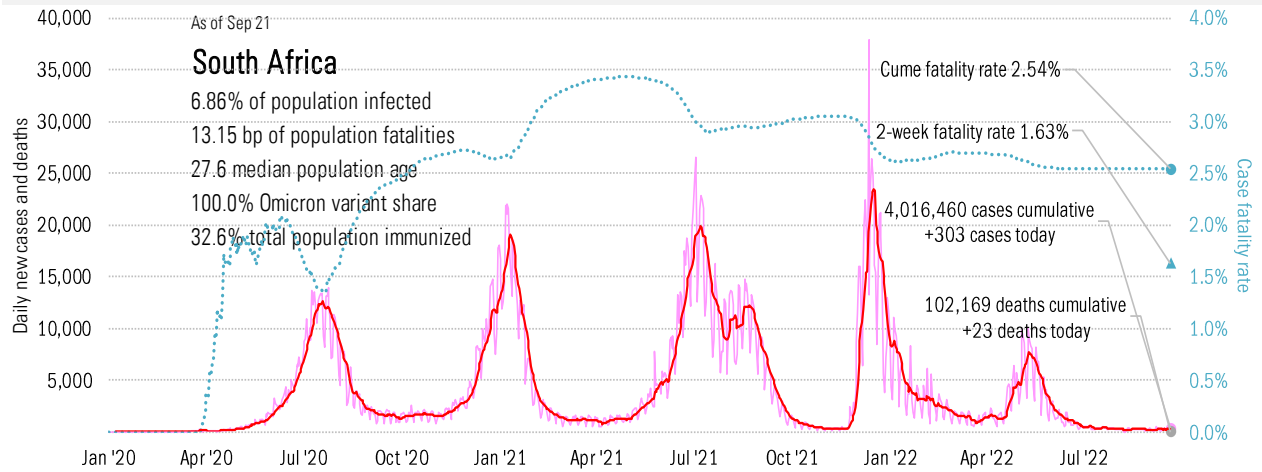
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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