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Data Insights: Covid-2019 Monitor

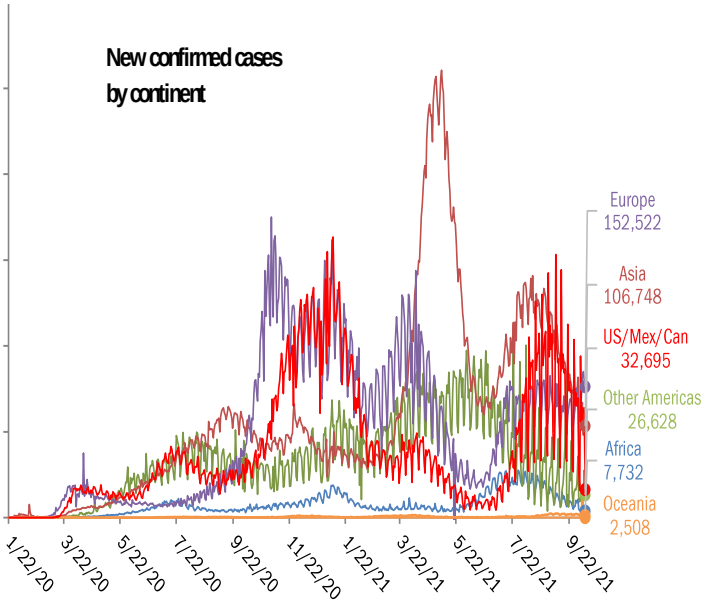
Sunday, October 10, 2021

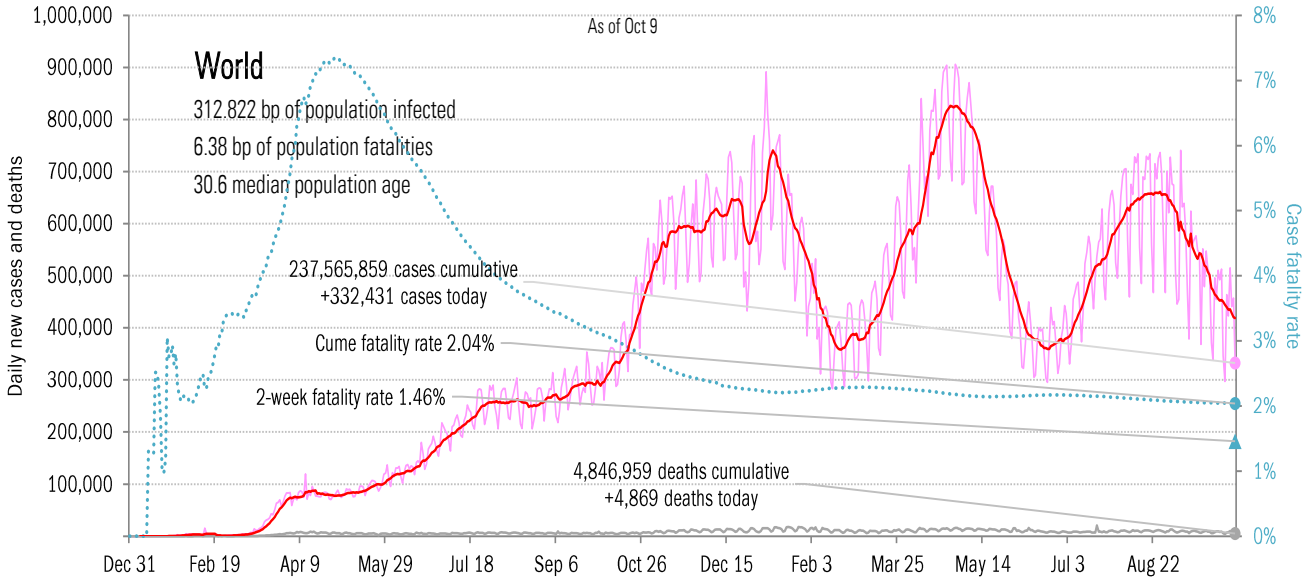
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United Kingdom	+39,493	Russia	+954
United States	+31,099	United States	+474
Russia	+28,648	Brazil	+404
Turkey	+28,645	Romania	+282
India	+18,166	Philippines	+273
Ukraine	+16,622	Ukraine	+264
Brazil	+16,451	India	+214
Romania	+14,019	Turkey	+206
Philippines	+10,956	Iran	+173
Thailand	+10,630	United Kingdom	+156
	+214,729		+3,400
World	+332,431	World	+4,869
Top ten	65%	Top ten	70%





Source: Johns Hopkins, TrendMacro calculations

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Thomas Demas: 704 552 3625 tdemas@trendmacro.com

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

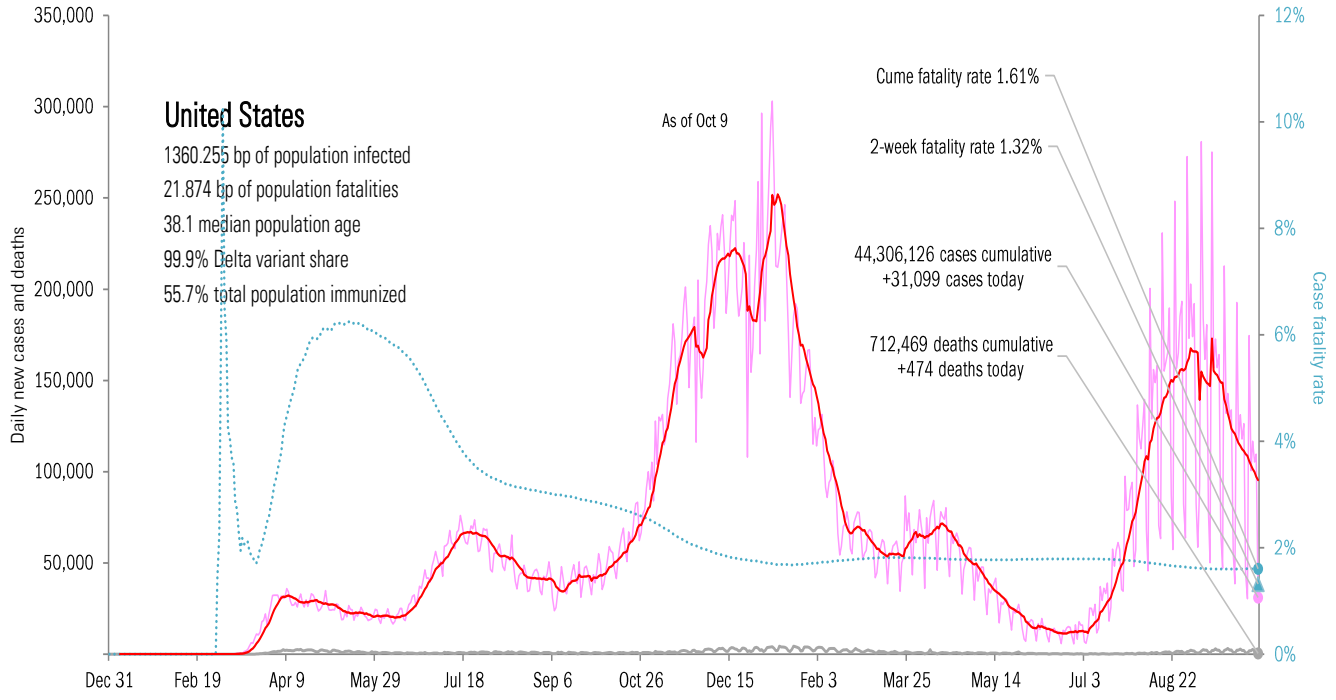
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
PA	+4,975	FL	+195	MI	+141	CA	4,773,284	CA	69,990	TX	364,644	RI	87%	NM	94%
NY	+3,770	AL	+101	WI	+43	TX	4,129,189	TX	66,986	FL	312,118	MA	86%	TX	91%
FL	+3,598	AZ	+31	GA	+38	FL	3,633,863	FL	56,164	CA	300,875	PA	85%	AL	90%
OH	+3,185	NY	+28	MN	+32	NY	2,470,550	NY	55,673	NY	158,164	MD	85%	MT	89%
AZ	+2,358	CA	+24	IN	+29	IL	1,650,108	PA	29,907	GA	154,875	MI	82%	ID	89%
NJ	+1,828	AR	+21	PA	+29	GA	1,602,667	IL	27,657	OH	115,565	GA	82%	OK	88%
CA	+1,658	MD	+20	NC	+28	PA	1,474,822	NJ	27,590	PA	109,437	MN	82%	RI	88%
WV	+1,267	NJ	+20	UT	+26	OH	1,461,932	GA	27,142	KY	108,254	MO	82%	AR	87%
MO	+1,260	ND	+7	IL	+23	NC	1,425,062	OH	22,819	IL	101,514	NY	82%	AK	86%
MD	+1,259	ID	+5	AR	+17	TN	1,249,333	MI	22,702	MI	85,713	WV	81%	KY	86%
	+25,158		+452		+406		23,870,810		406,630		1,811,159				
All states	+31,099		+474		+69	All states	44,306,126		712,469		3,223,293	All states	70%		67%
Top ten	81%		95%		588%	Top ten	54%		57%		56%	Median	77%		80%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-10,122	KS	-374	NJ	-65	GA	+30 bp
FL	-6,561	OH	-329	KY	-50	MI	+20 bp
CA	-5,414	GA	-131	ND	-33	RI	+20 bp
NC	-4,078	CA	-122	MD	-31	UT	+20 bp
MN	-3,645	MI	-93	NM	-24	AK	+10 bp



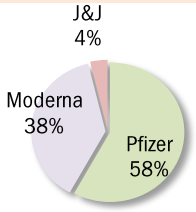
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	413,077,840				+1.172 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	222,147,999	66%	191,882,883	57%	+0.300 million
Age 12 to 17	13,871,958	58%	11,369,131	48%	+0.033 million
Age 18 to 64	153,581,057	75%	132,138,273	65%	+0.224 million
Age 65 and over	53,608,068	98%	47,485,502	87%	+0.042 million

Immunity	Full	Partial
US	55.7%	64.5%
UK	66.2%	72.0%
France	66.5%	74.8%
Spain	78.7%	80.8%
Germany	64.6%	67.9%
Italy	69.0%	75.8%
Australia	50.0%	68.5%
Israel	64.6%	70.3%
Canada	72.0%	77.8%
Japan	63.4%	73.1%
Africa	4.6%	7.1%
India	18.9%	48.8%
Brazil	46.1%	72.1%
China	72.6%	76.2%

Global data differs from sources, timing



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

Best
Middle
Worst

Every American >18 immune in

66 days

by Dec 13, 2021

69.6% of population >18 immunized

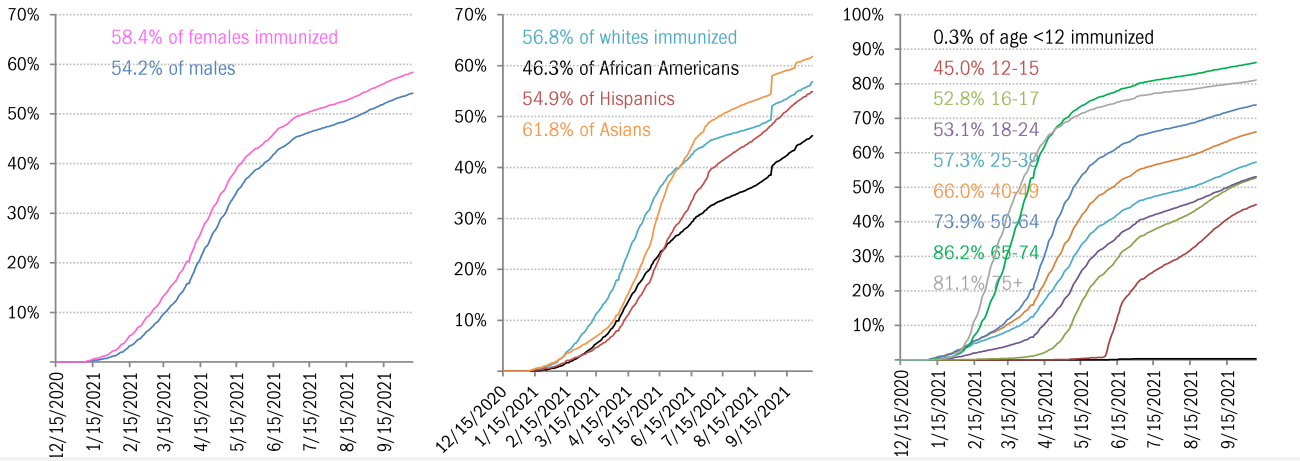
15.8% previously tested positive

85.3% vs 60% adult herd immunity

As of Oct 9

AK												
57.9%												
51.2%												
					WI						ME	
					61.6%						74.8%	
					57.1%						69.1%	
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH		
68.0%	47.8%	55.4%	51.8%	64.0%	69.2%	57.2%		72.2%	78.4%	71.6%		
61.9%	42.4%	49.1%	44.9%	58.7%	54.2%	52.6%		64.5%	70.2%	62.0%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA			
67.2%	61.6%	49.3%	60.1%	58.6%	52.8%	54.8%	74.1%	73.3%	78.2%			
61.6%	51.5%	42.4%	52.3%	54.5%	49.0%	50.9%	58.7%	65.0%	68.5%			
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI		
72.6%	59.8%	66.1%	59.9%	55.5%	61.6%	48.5%	69.2%	71.4%	77.2%	76.2%		
59.7%	51.9%	60.0%	55.2%	48.6%	53.3%	40.7%	61.4%	64.8%	69.4%	69.3%		
	AZ	NM	KS	AR	TN	NC	SC	DC	DE			
	59.9%	73.3%	60.7%	56.3%	53.3%	61.2%	56.0%	71.9%	67.3%			
	51.8%	63.8%	51.8%	46.3%	46.3%	51.1%	48.2%	60.8%	58.4%			
			OK	LA	MS	AL	GA					
			57.4%	52.3%	50.7%	53.2%	55.6%					
			48.4%	46.1%	44.2%	43.4%	46.5%					
HI			TX					FL		PR		
77.3%			60.2%					67.6%		80.0%		
58.5%			51.9%					58.2%		71.5%		

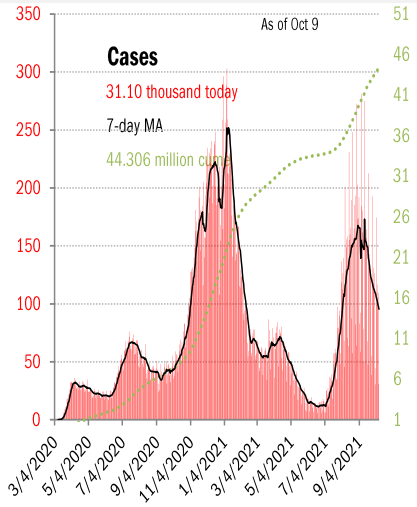
The demographics of US vaccination

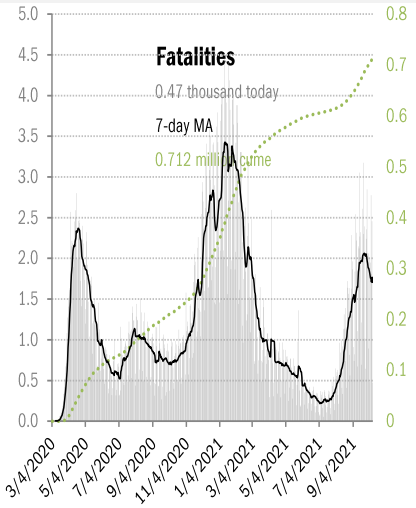


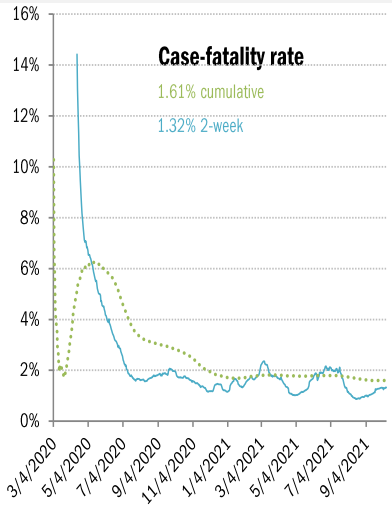
Source: CDC, CDC, Our World in Data, TrendMacro calculations

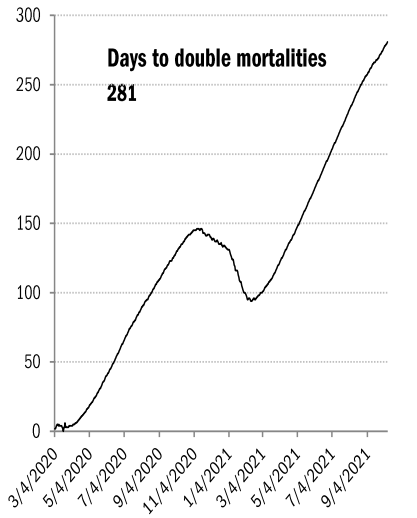
US deep-dive

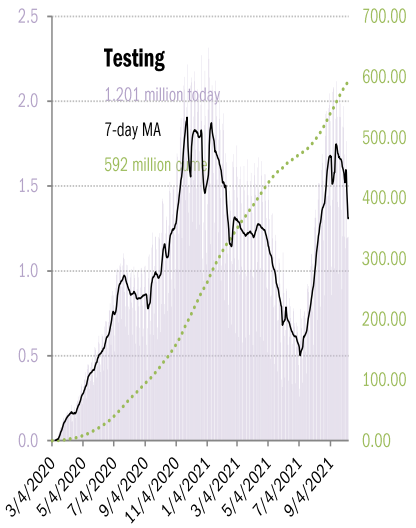
National and state-by-state data do not line up because of different sources

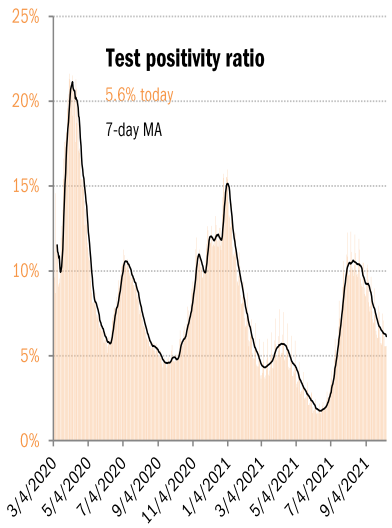


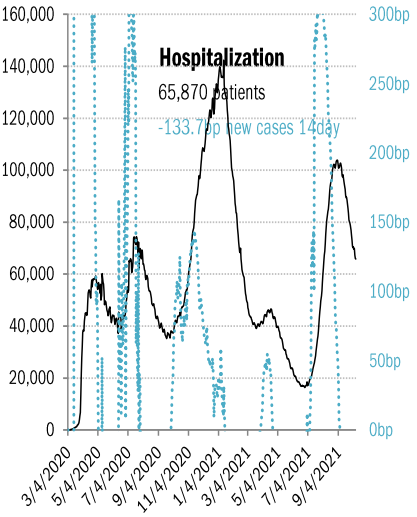


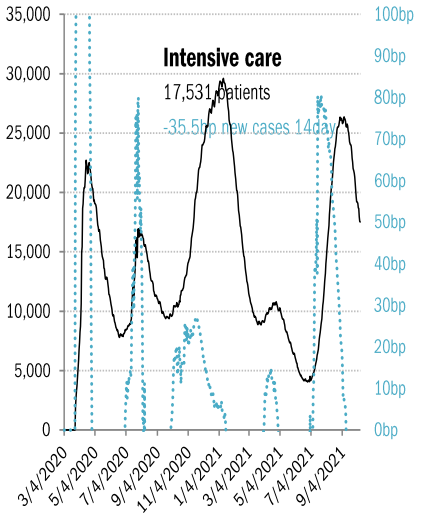


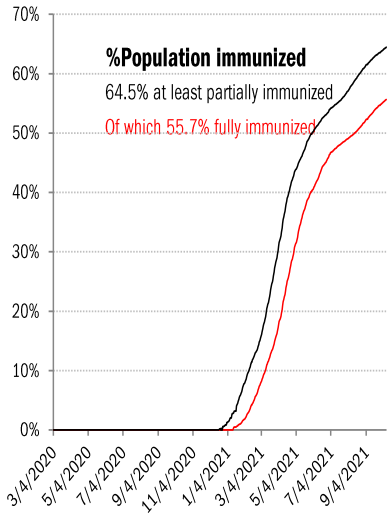












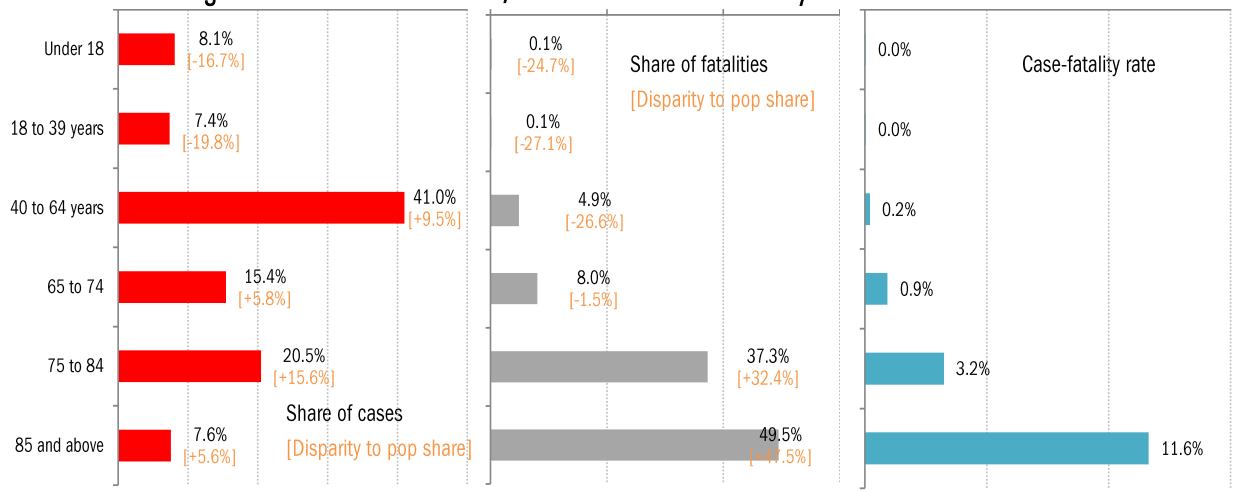
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

US deep-dive on the demographics of age, race and health

Updates weekly on Sundays

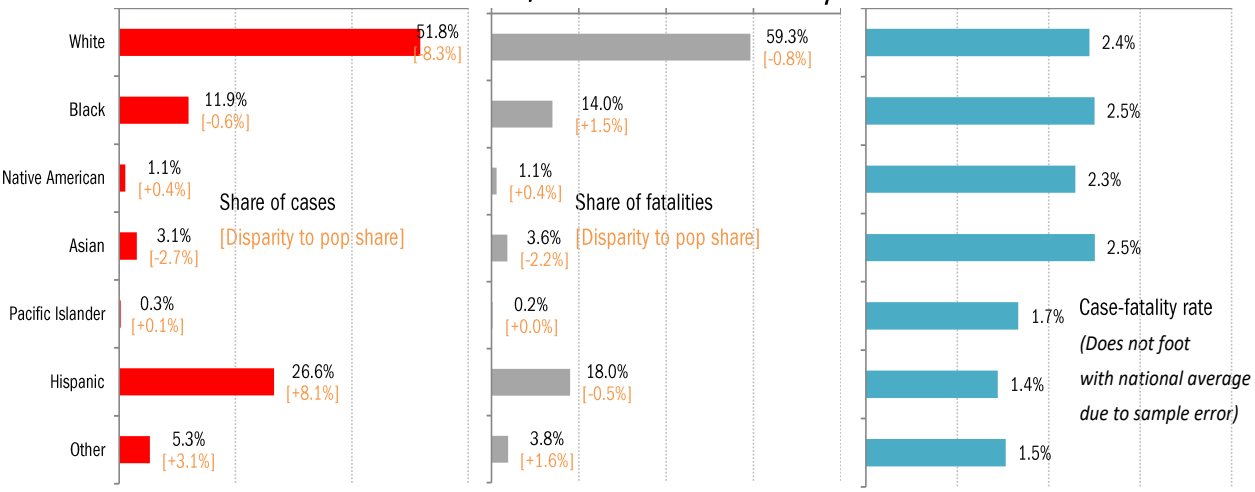
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



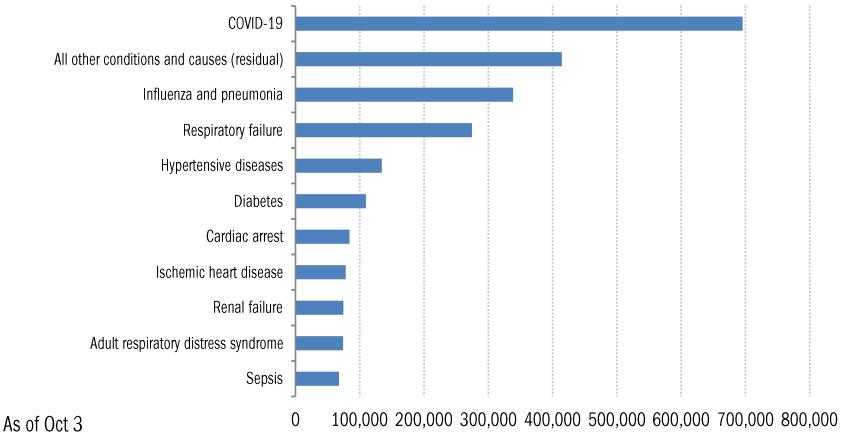
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Oct 3

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

Moderna, Racing for Profits, Keeps Covid Vaccine Out of Reach of Poor
Rebecca Robbins
New York Times
Octobr 9, 2021

'A Safe Space': Black Pastors Promote Vaccinations from the Pulpit
Liam Stack
New York Times
October 9, 2021

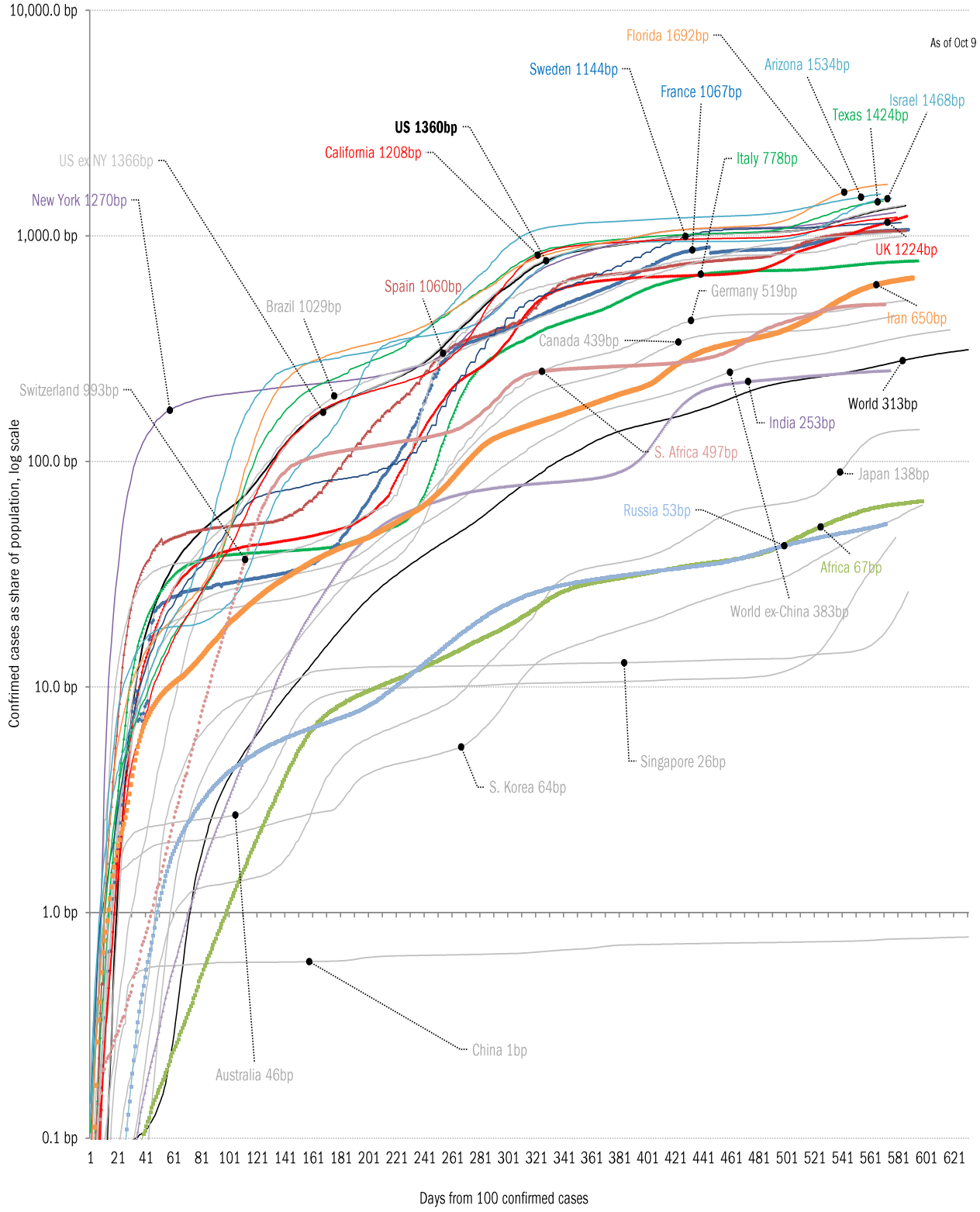
The 25 Most Iconic Book Covers in History
Emily Temple
LitHub
October 7, 2021

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

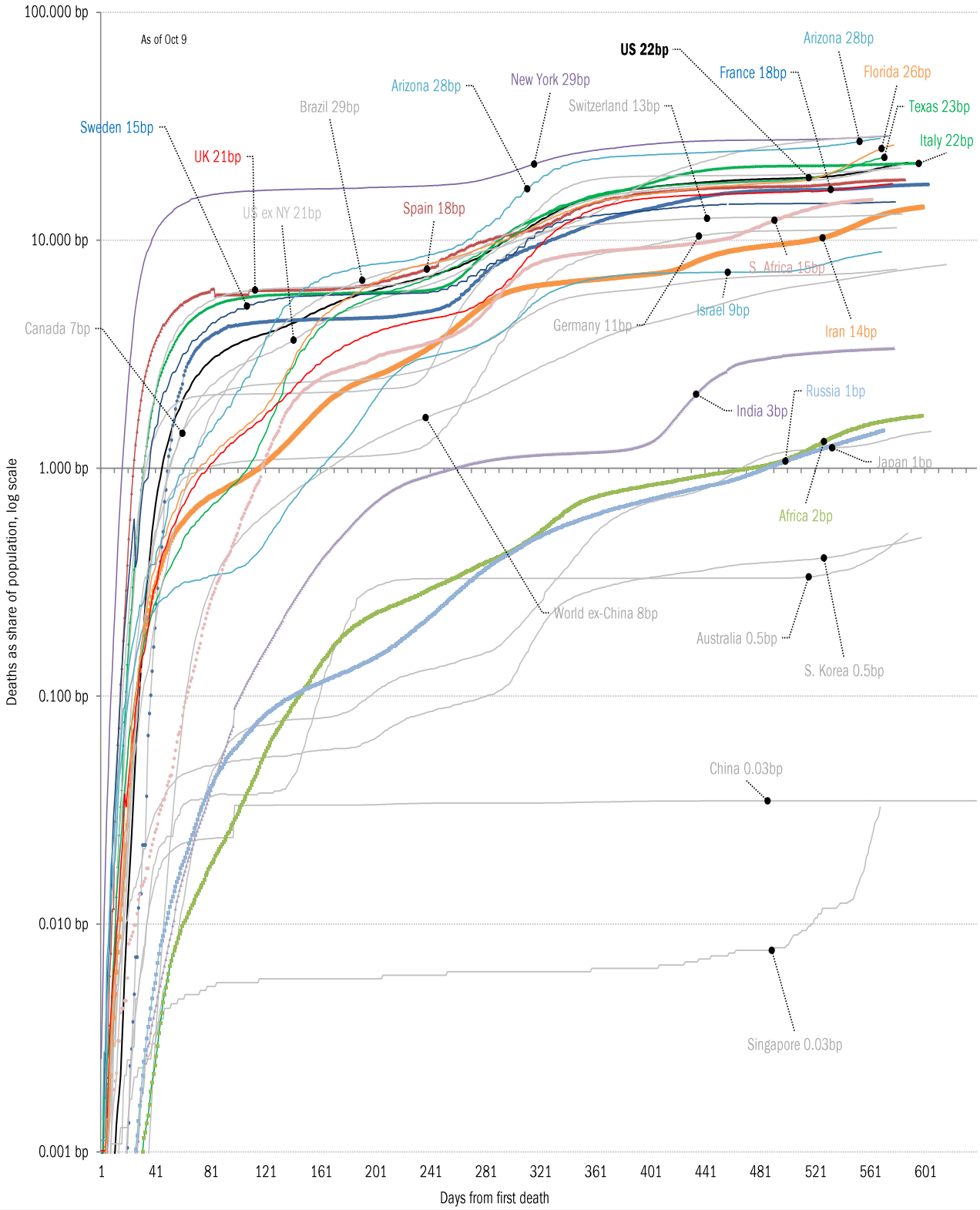
Share of infected population from first day with 100 confirmed cases, log scale



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

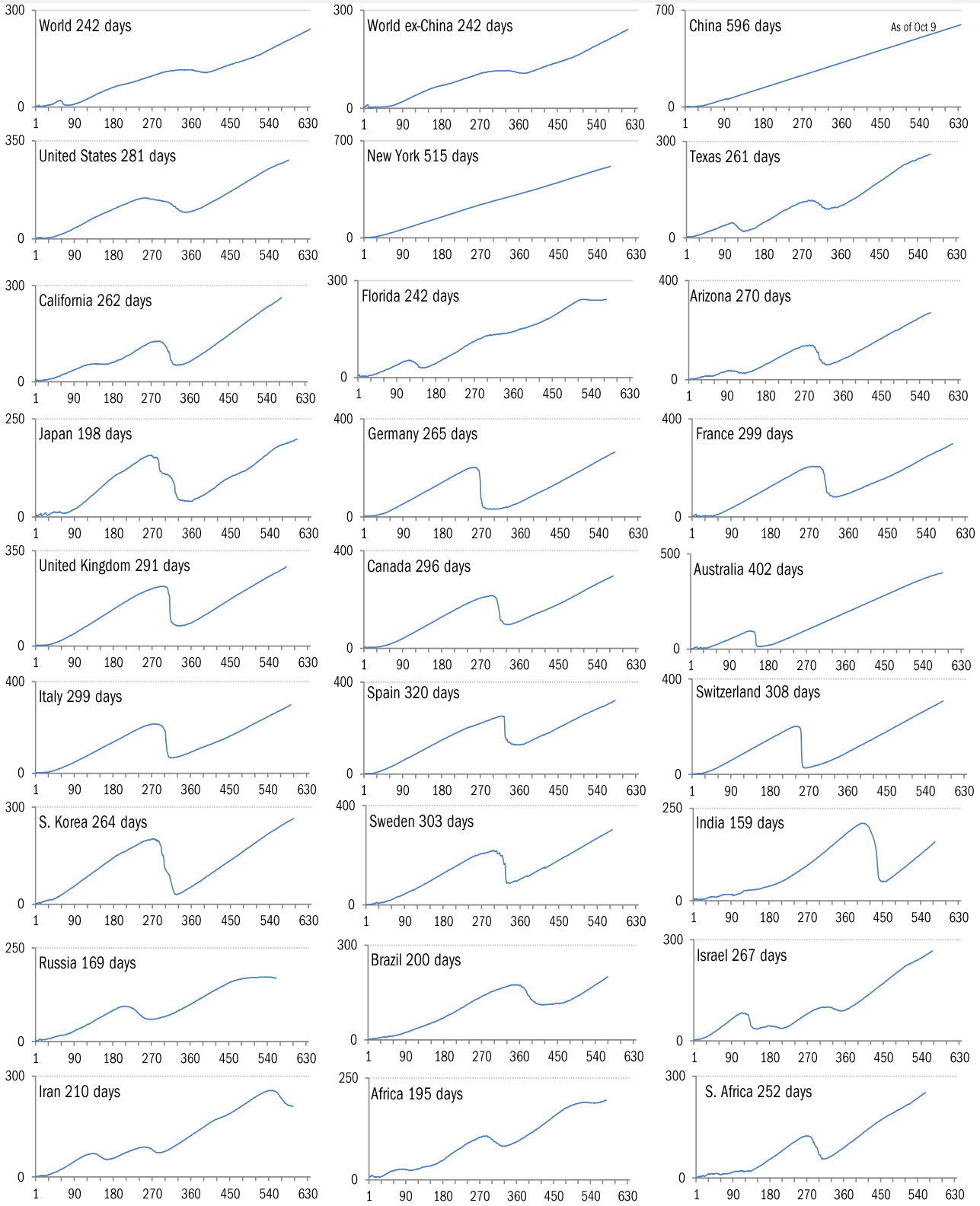


Source: Johns Hopkins, TrendMacro calculations

"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

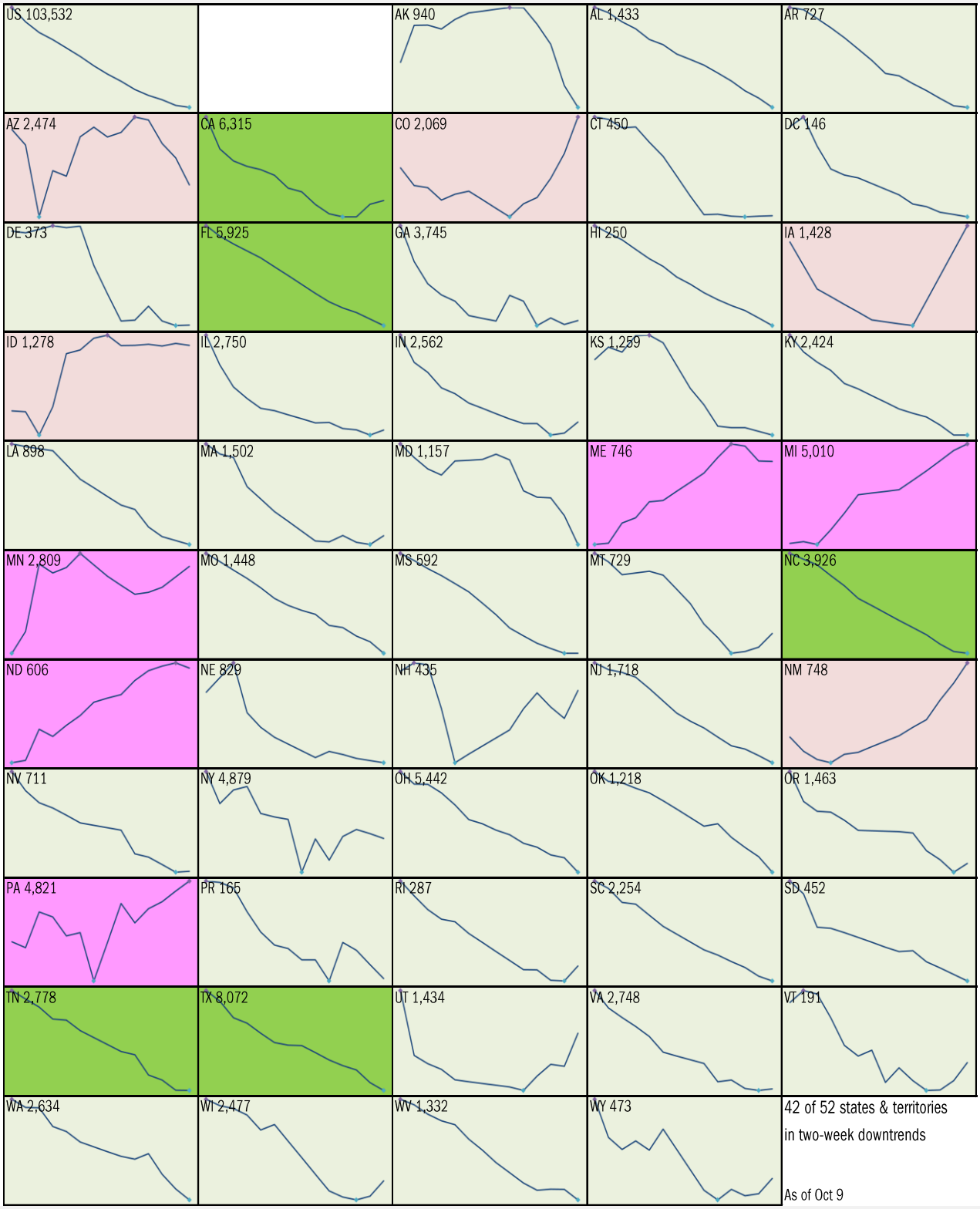


Source: Johns Hopkins, TrendMacro calculations

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

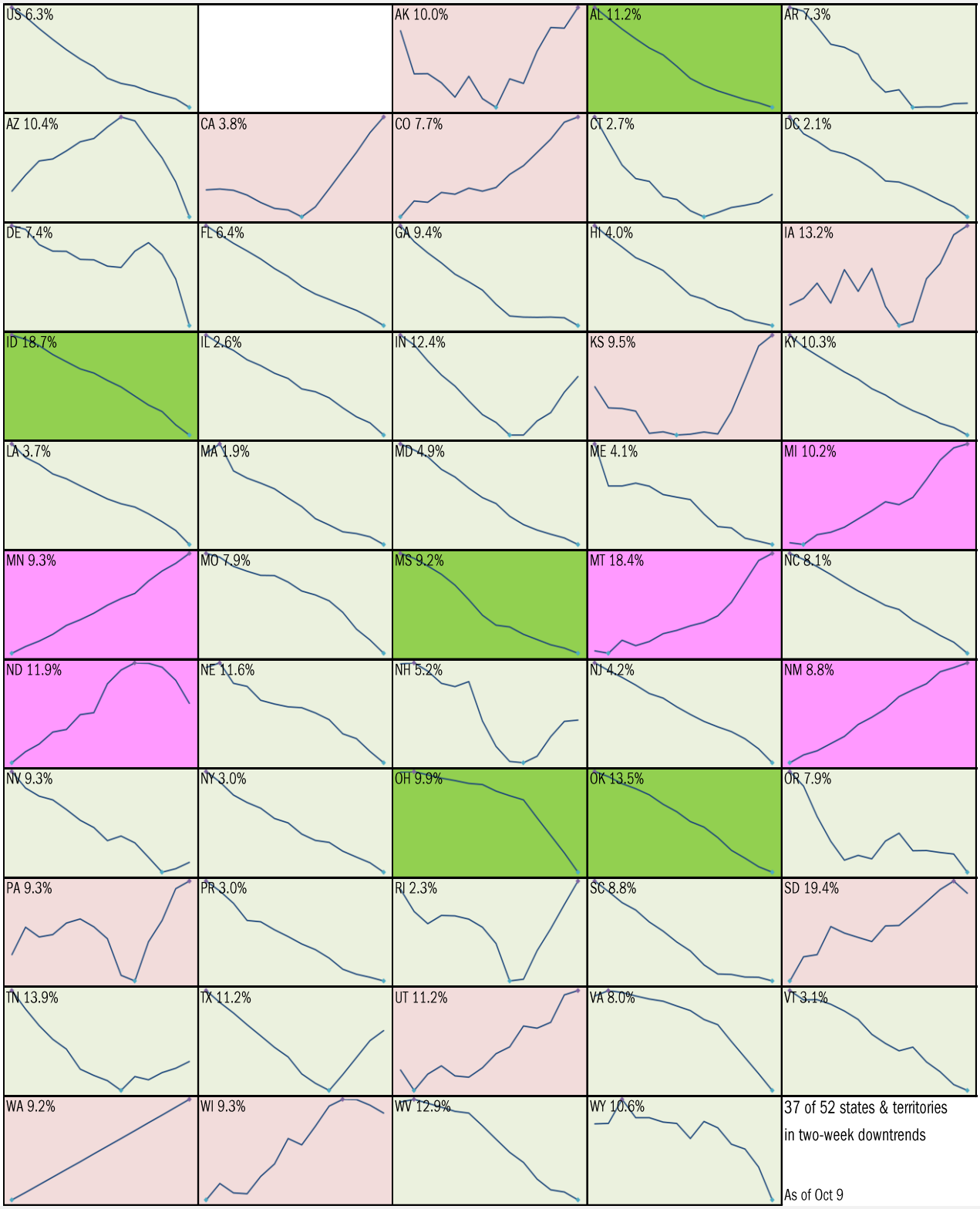


Source: Johns Hopkins, TrendMacro calculations

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

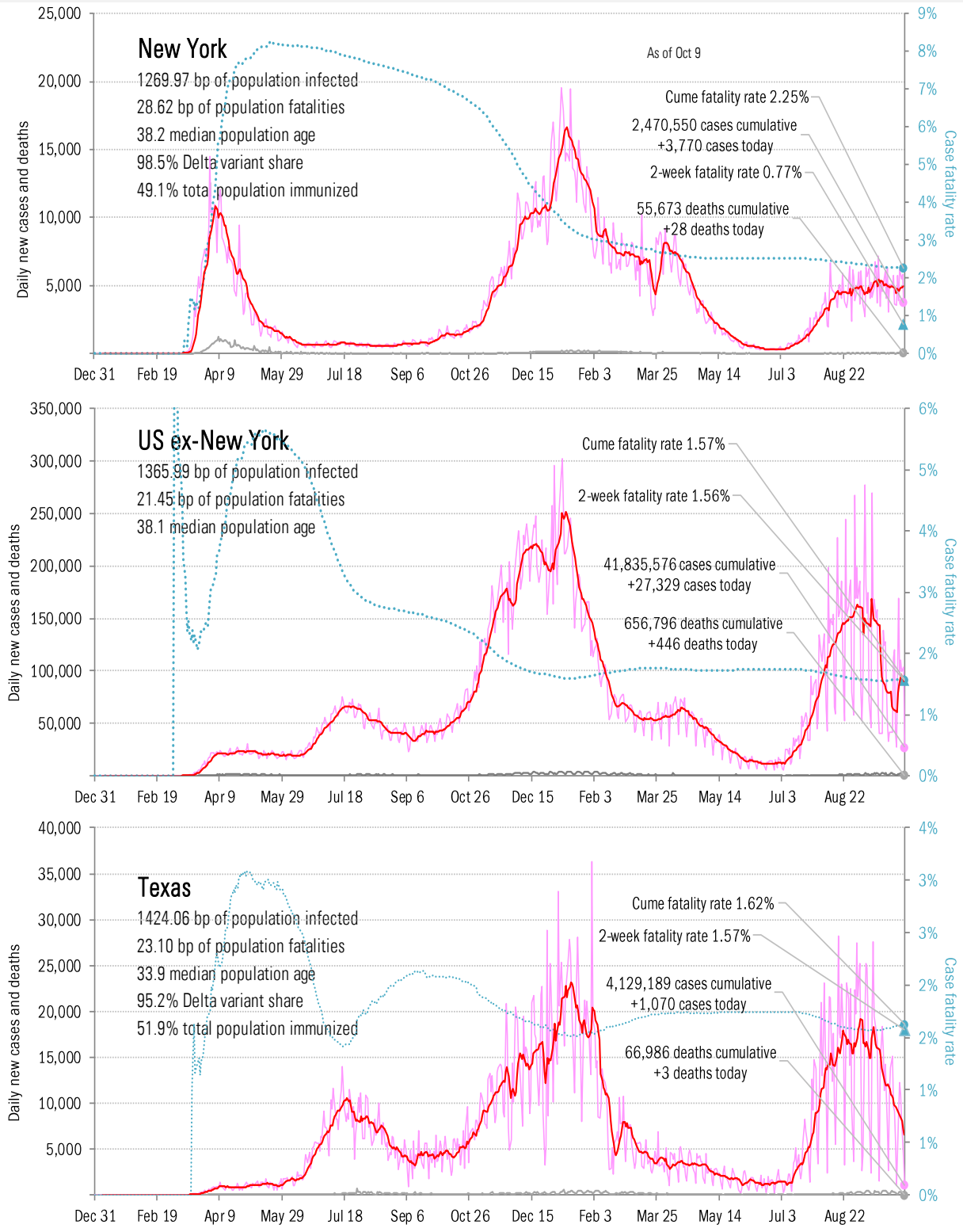
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

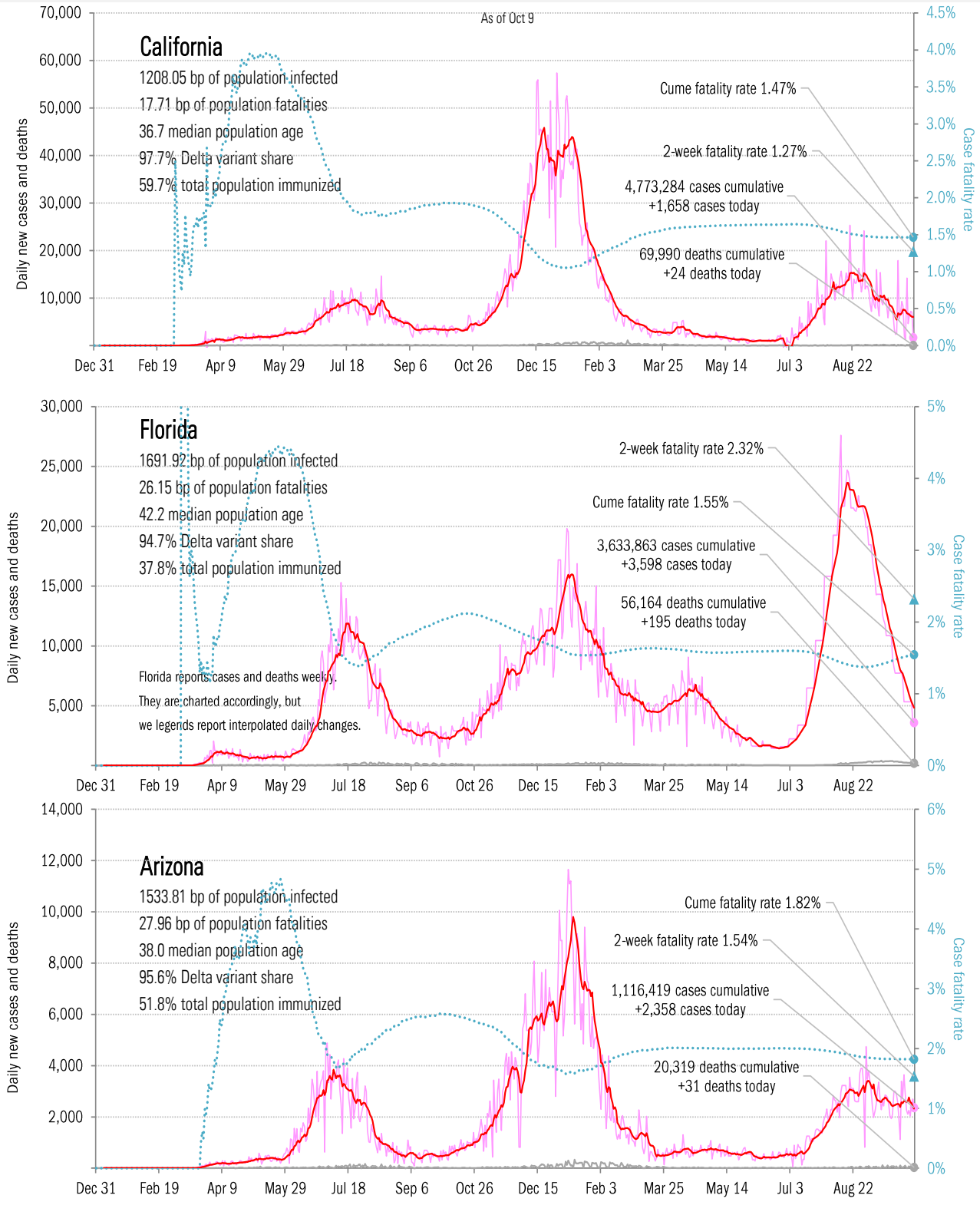
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

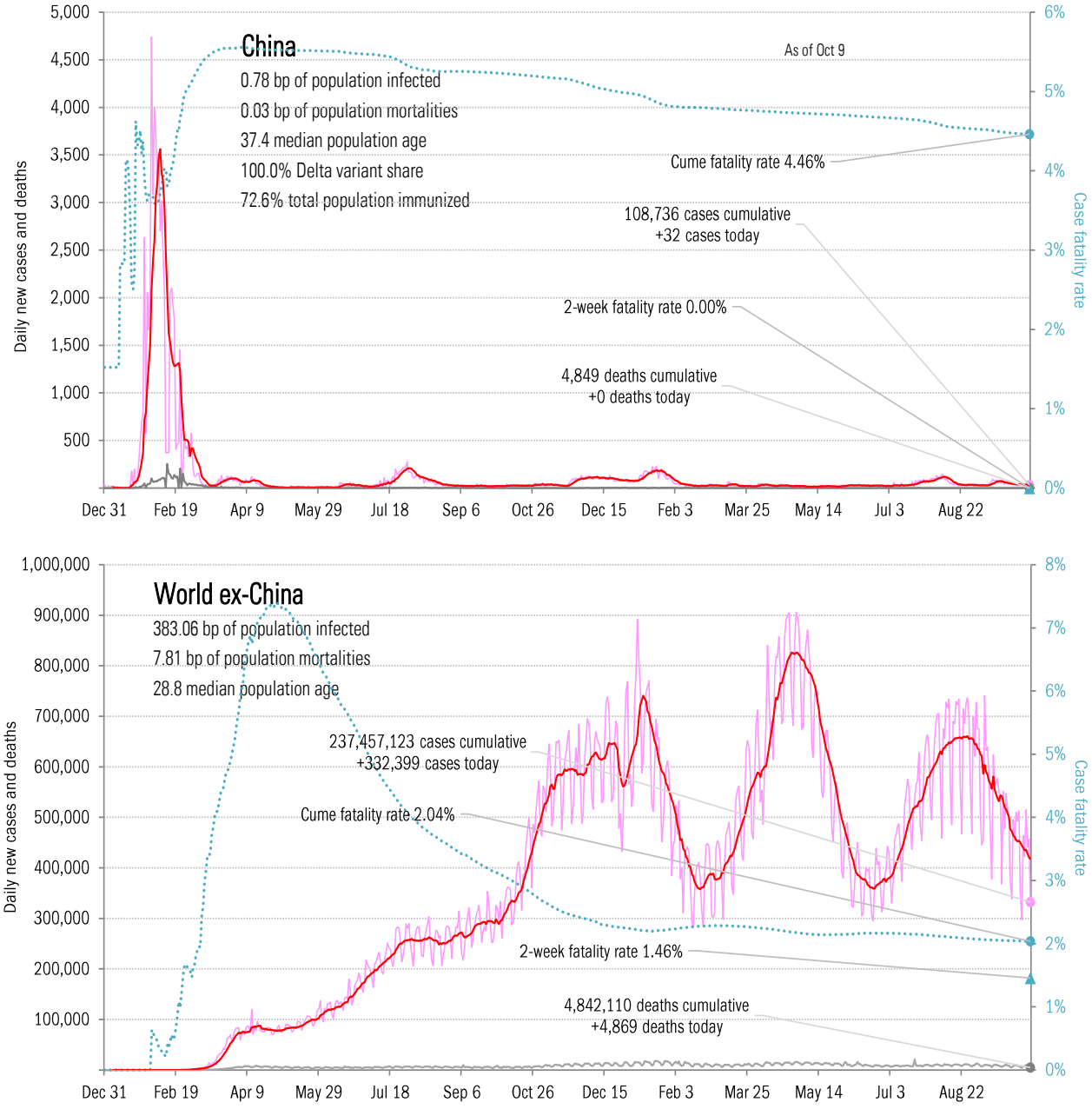
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

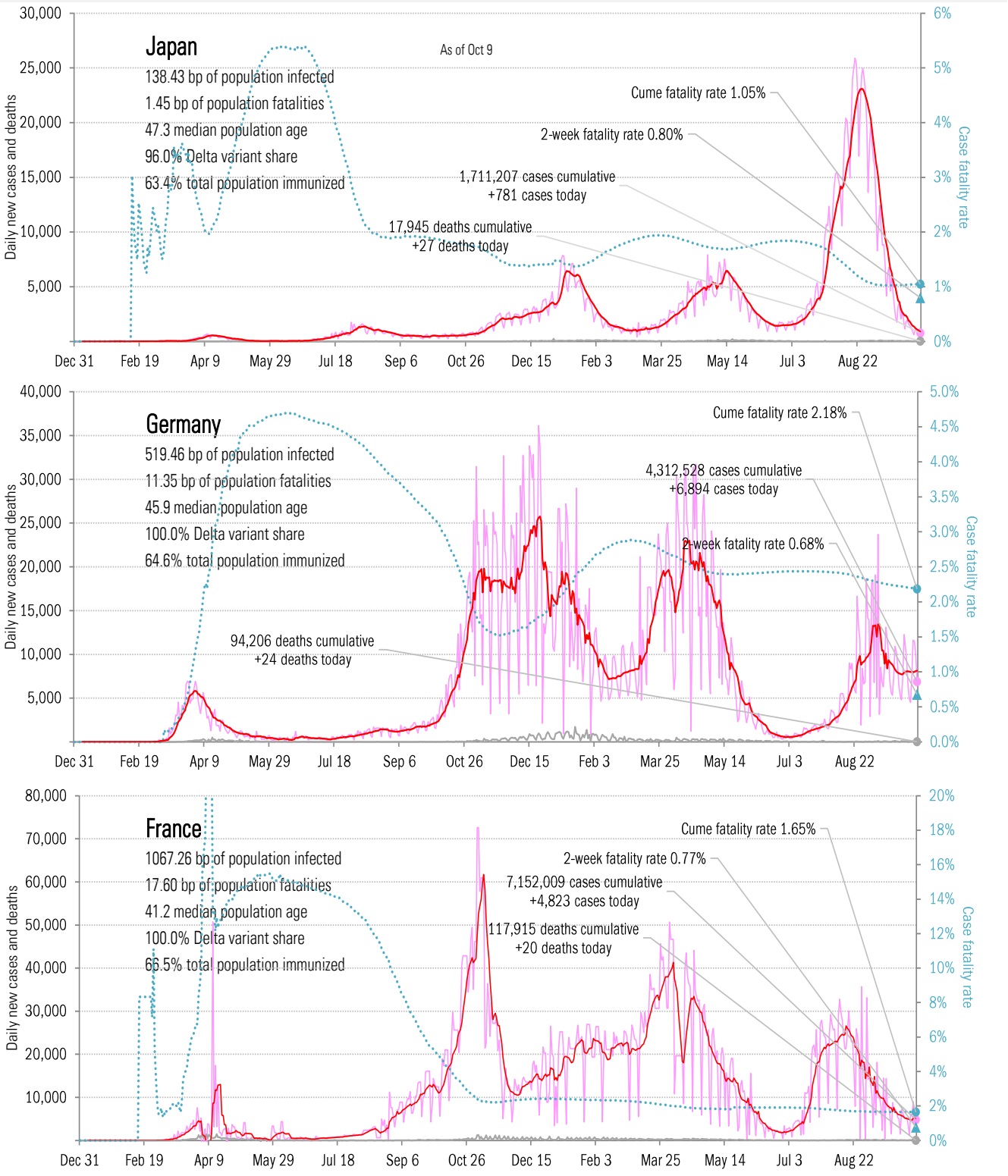
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

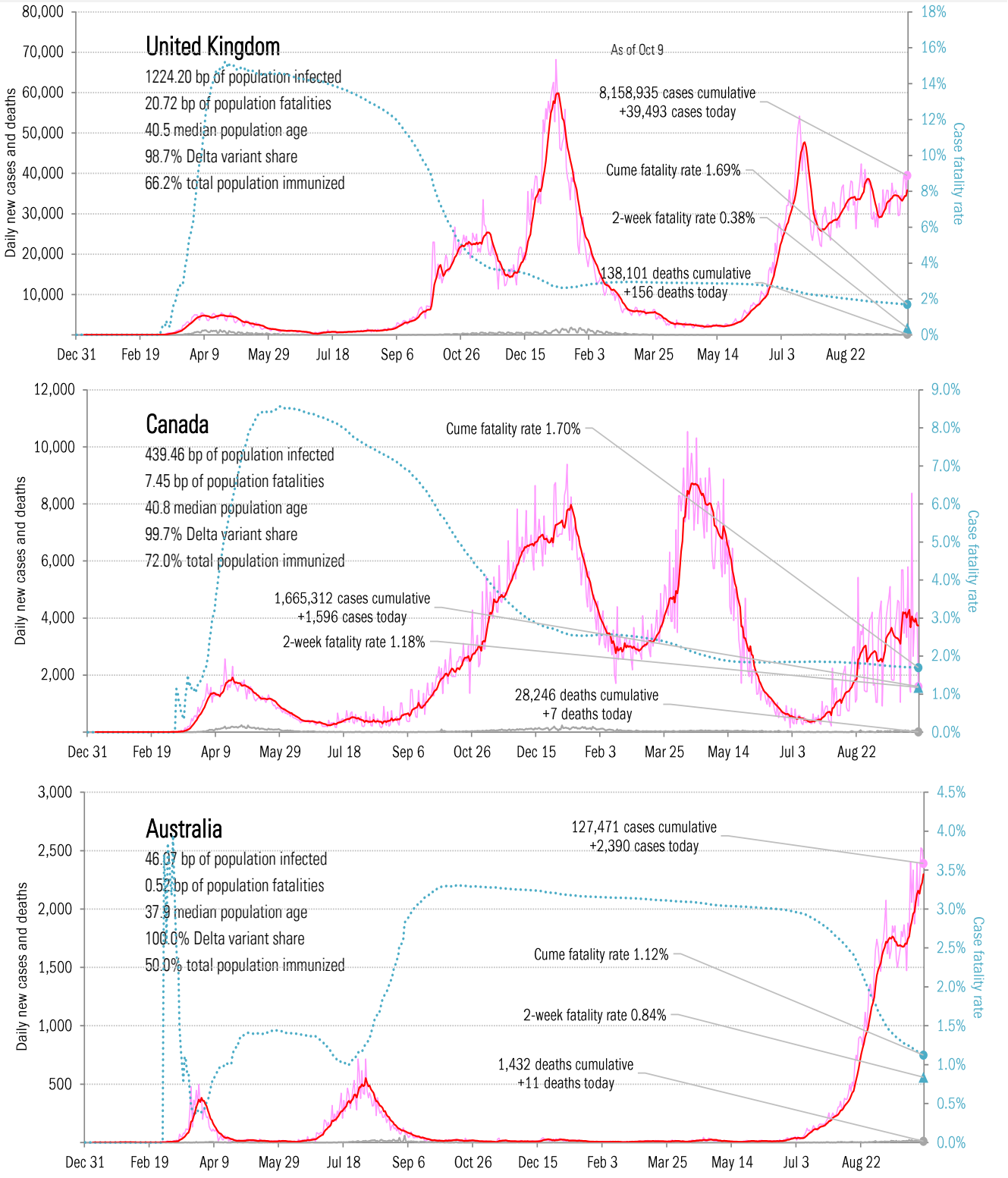
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

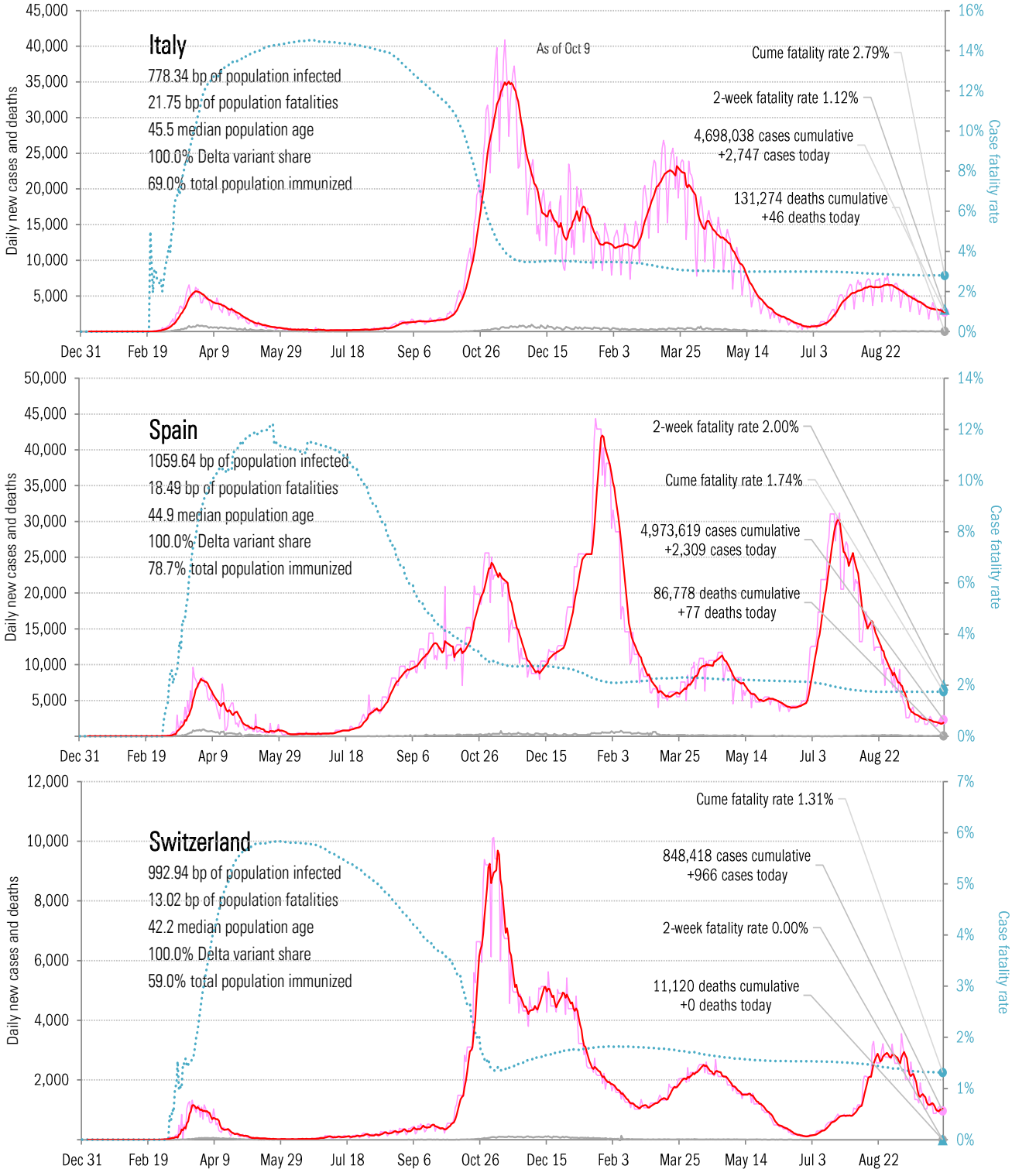
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

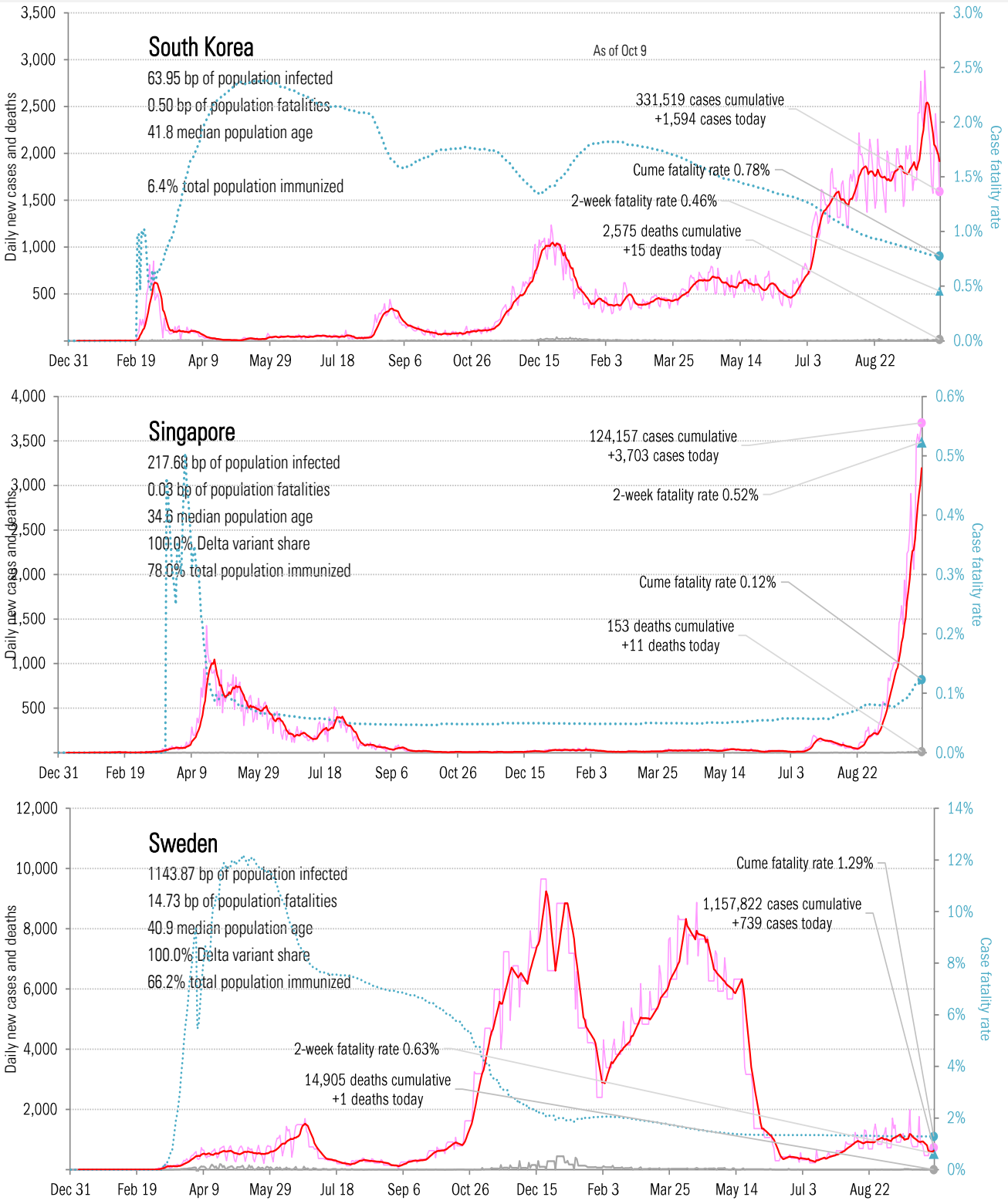
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

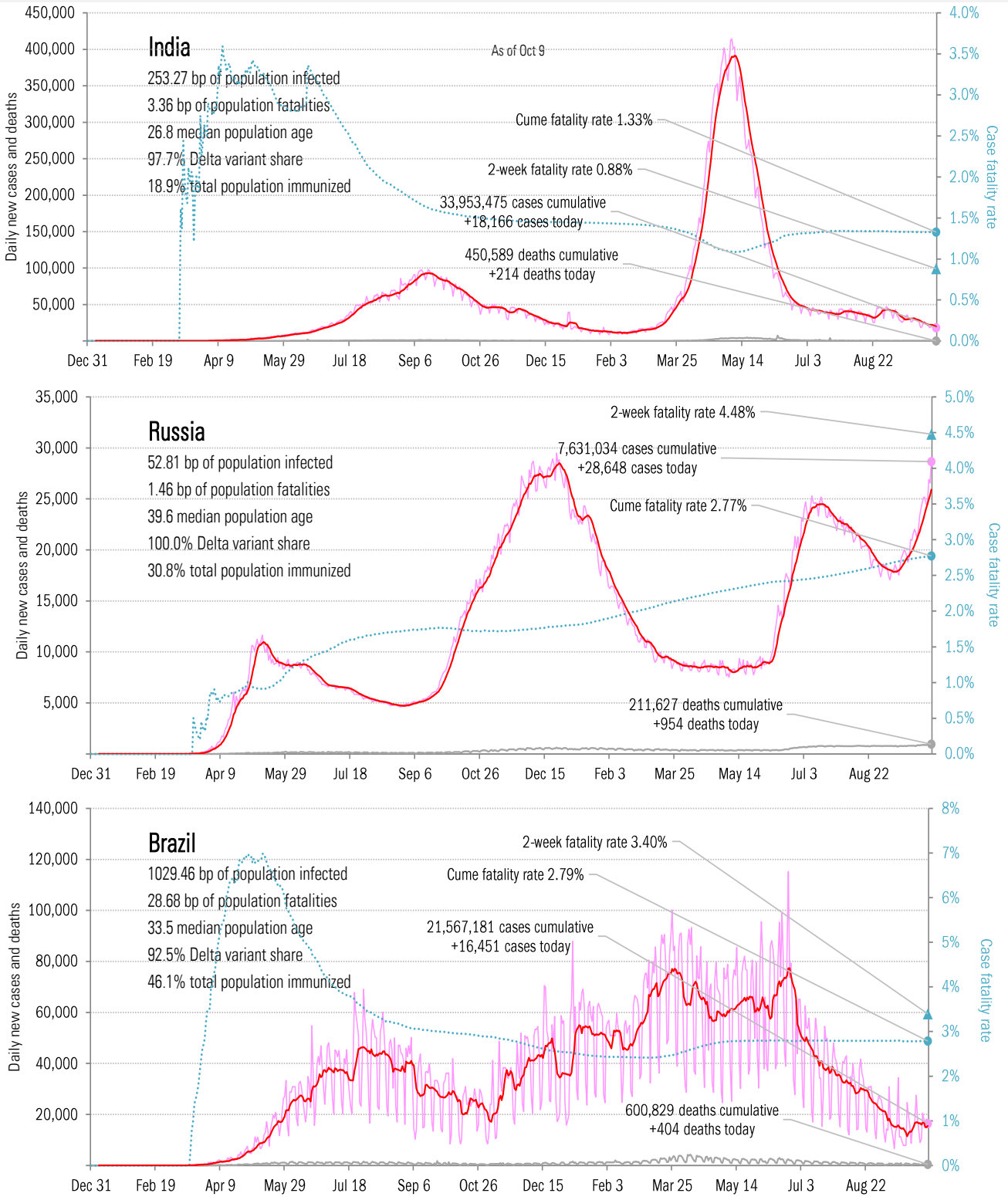
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

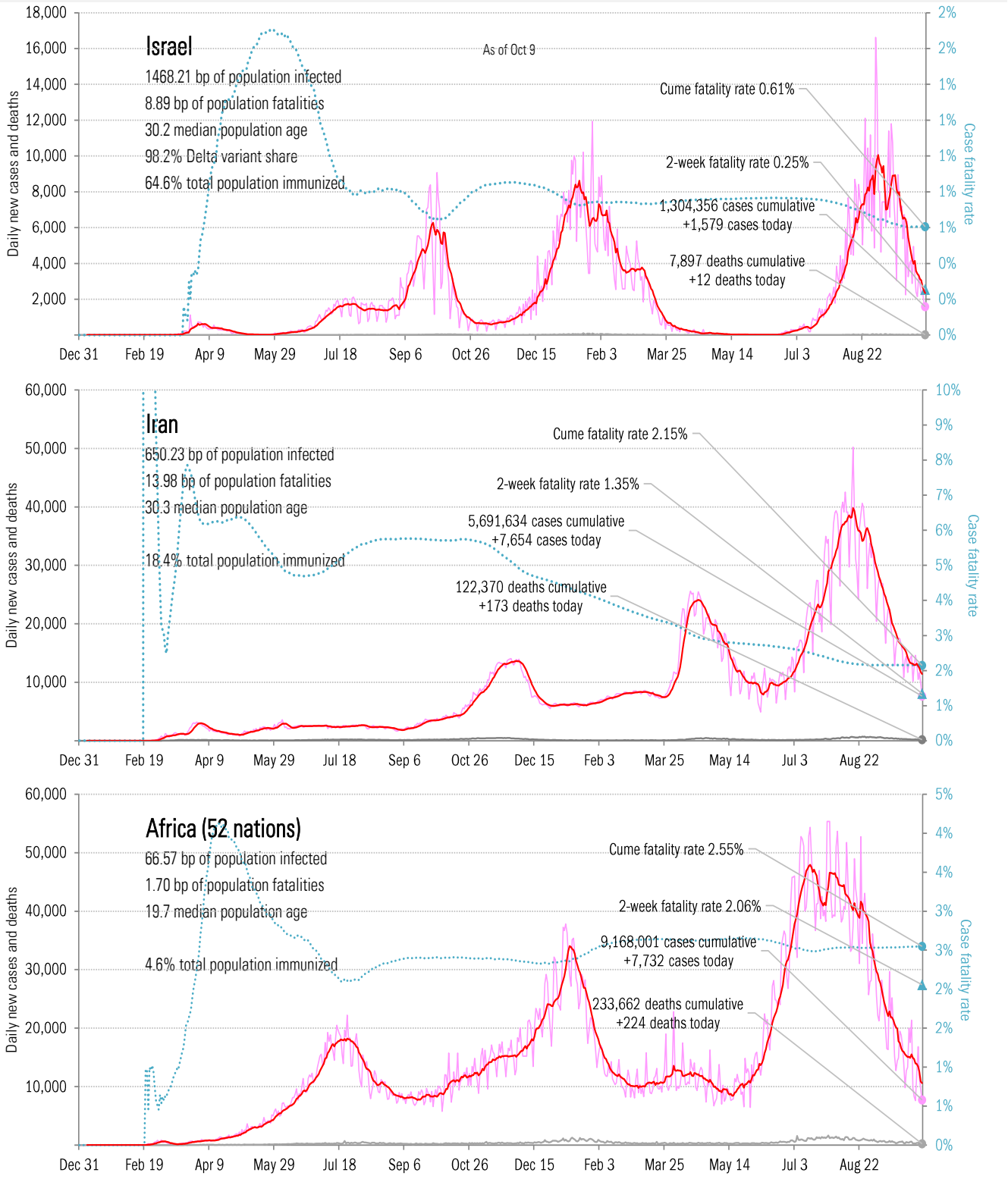
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

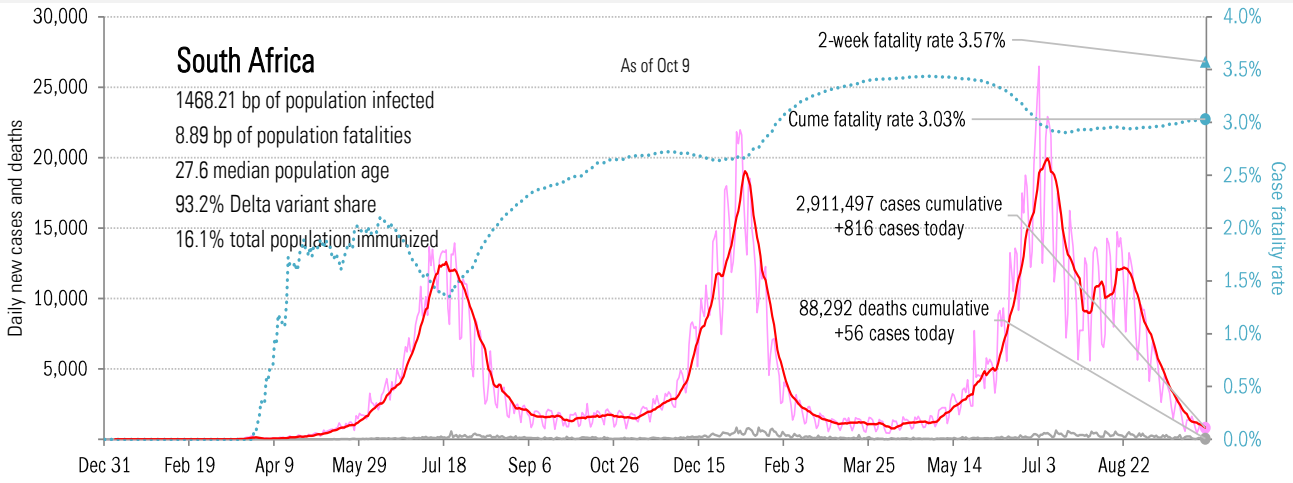
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations