Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

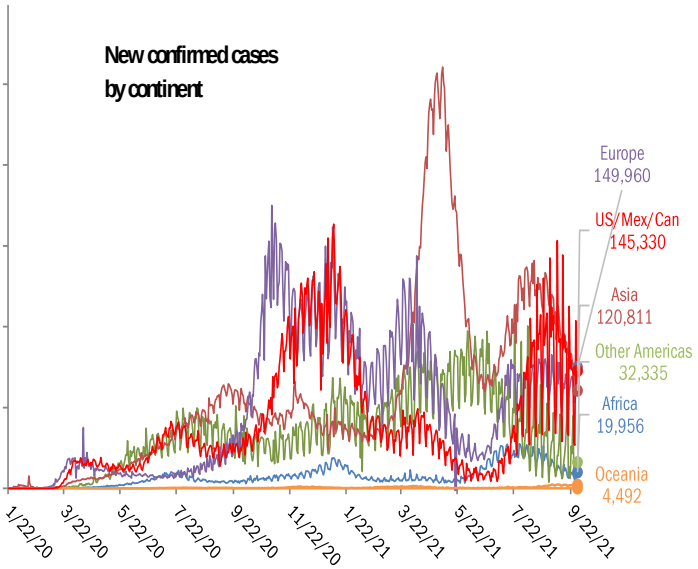
Thursday, September 30, 2021

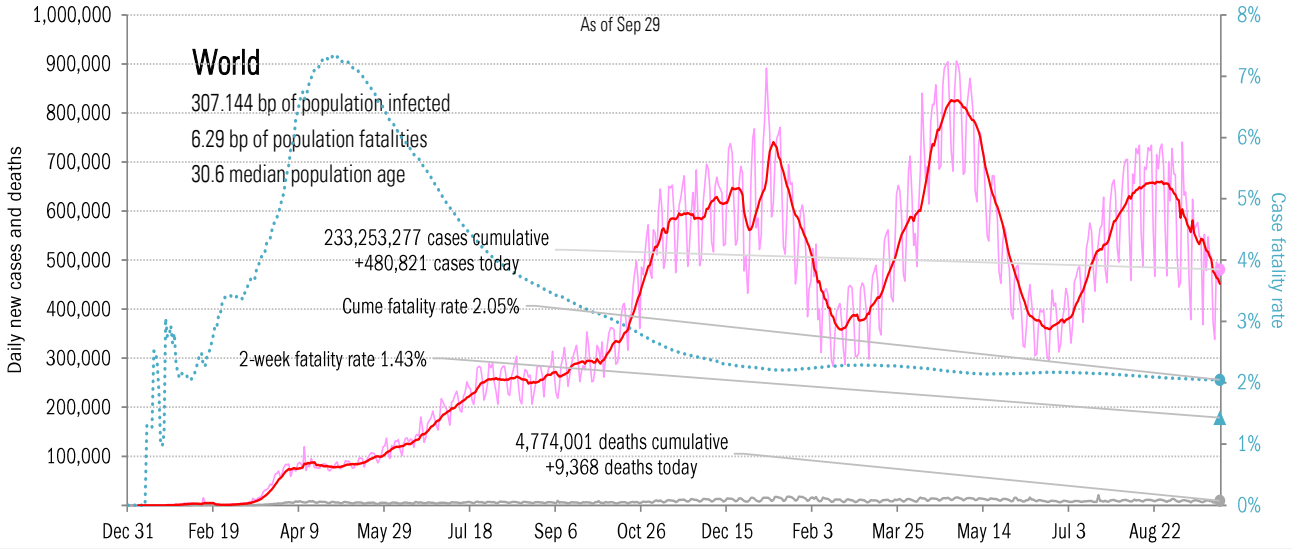
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	+131,206	United States	+2,838
United Kingdom	+35,266	Russia	+846
Philippines	+26,555	Brazil	+676
India	+23,529	Mexico	+597
Russia	+21,891	Philippines	+568
Brazil	+17,756	India	+311
Iran	+13,271	Iran	+272
Malaysia	+12,434	Ukraine	+228
Germany	+12,267	Malaysia	+208
Romania	+10,826	Romania	+207
	+305,001		+6,751
World	+480,821	World	+9,368
Top ten	63%	Top ten	72%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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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

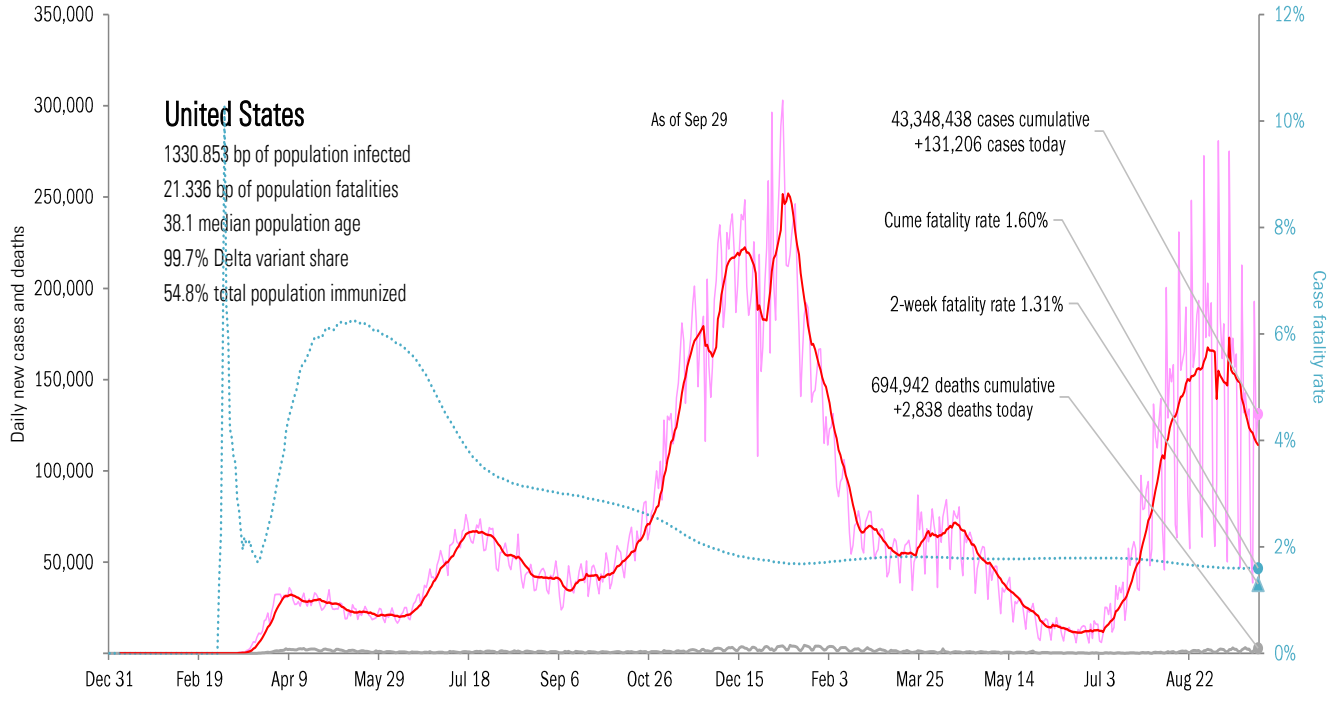
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TX	+15,124	TX	+395	NY	+26	CA	4,711,012	CA	68,980	TX	357,430	RI	89%	AL	98%
MI	+8,694	FL	+311	MN	+23	TX	4,058,636	TX	64,851	FL	307,483	MA	85%	GA	94%
FL	+7,937	OK	+234	PA	+19	FL	3,582,034	NY	55,310	CA	296,790	GA	85%	TX	94%
CA	+6,976	GA	+176	MI	+16	NY	2,421,755	FL	53,899	NY	155,515	PA	85%	ID	90%
OH	+6,463	NC	+159	NE	+15	IL	1,624,164	PA	29,323	GA	151,357	MD	83%	KY	89%
NY	+5,072	CA	+154	WA	+9	GA	1,573,840	NJ	27,400	OH	111,187	SC	83%	NV	89%
NC	+4,789	SC	+113	MO	+8	PA	1,425,048	IL	27,367	KY	106,322	MI	82%	WV	87%
PA	+4,570	MI	+111	DC	+6	OH	1,407,442	GA	25,933	PA	106,182	MN	81%	NM	87%
GA	+4,435	PA	+97	HI	+5	NC	1,390,489	MI	22,355	IL	99,653	FL	81%	NC	86%
KY	+3,872	KY	+82	AK	+4	TN	1,224,402	OH	21,945	MI	83,163	MO	81%	DE	86%
	+67,932		+1,832		+131		23,418,822		397,363		1,775,082				
All states	+131,206		+2,838		-1009	All states	43,348,438		694,942		3,153,835	All states	70%		67%
Top ten	52%		65%		-13%	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	
MN	-4,130	OH	-125	WV	-79	DE	+30 bp
NE	-1,753	MO	-106	NC	-66	MS	+30 bp
NH	-962	AL	-85	TX	-63	GA	+20 bp
IA	-916	AZ	-69	WI	-45	MO	+20 bp
PA	-859	TN	-59	VA	-40	AK	+10 bp

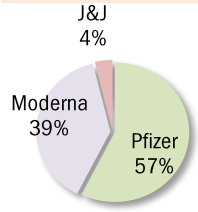


Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	403,048,189				+0.866 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	219,256,782	66%	188,967,324	57%	+0.923 million
Age 12 to 17	13,641,265	57%	11,042,145	46%	+0.034 million
Age 18 to 64	151,651,661	74%	129,936,650	64%	+0.205 million
Age 65 and over	52,892,307	97%	47,113,574	86%	+0.037 million

Immunity	Full	Partial
US	54.8%	63.6%
UK	65.7%	71.5%
France	65.6%	74.4%
Spain	78.2%	80.6%
Germany	63.7%	67.3%
Italy	67.7%	74.7%
Australia	42.8%	63.6%
Israel	64.1%	69.5%
Canada	70.7%	76.7%
Japan	59.5%	70.4%
Africa	4.4%	6.7%
India	16.8%	46.3%
Brazil	41.6%	70.2%
China	72.6%	76.2%



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

Best
Middle
Worst

Every American >18 immune in
97 days
by Jan 4, 2022

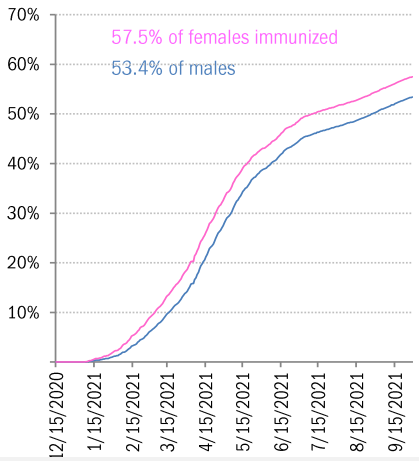
68.6% of population >18 immunized
14.8% previously tested positive
83.3% vs 60% adult herd immunity

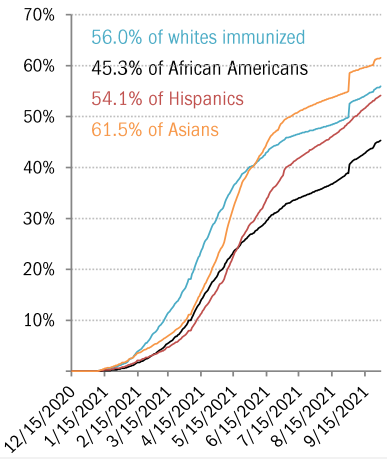
As of Sep 29

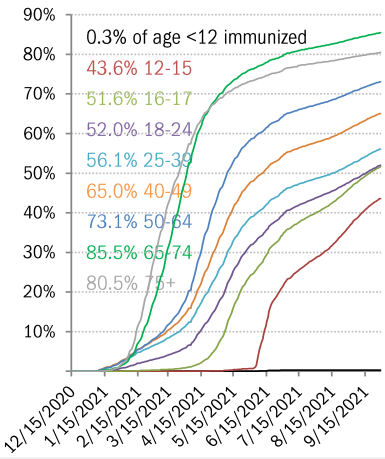
Global data differs from sources, timing

AK					WI				ME
57.2%					60.9%				74.1%
50.5%					56.4%				68.5%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
67.1%	47.0%	54.7%	50.9%	63.5%	68.4%	56.9%		71.2%	77.6%	69.7%
60.7%	41.5%	48.4%	44.0%	58.1%	53.5%	52.2%		63.6%	69.4%	61.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
66.5%	60.7%	48.4%	59.1%	58.1%	52.2%	54.2%	72.4%	72.4%	77.4%	
60.7%	50.7%	41.5%	51.6%	53.9%	48.3%	50.2%	57.8%	64.3%	67.9%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
71.6%	58.9%	65.5%	59.4%	54.8%	60.6%	48.1%	68.3%	70.6%	76.1%	75.2%
58.9%	50.5%	59.3%	54.6%	47.9%	52.2%	40.4%	60.5%	64.1%	68.6%	68.2%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	59.2%	72.4%	59.8%	55.7%	52.6%	59.6%	55.2%	70.7%	66.3%	
	51.0%	63.0%	51.1%	45.5%	45.3%	49.7%	47.2%	60.1%	57.6%	
			OK	LA	MS	AL	GA			
			56.5%	51.7%	50.1%	52.6%	54.8%			
			47.5%	45.3%	43.4%	42.5%	45.3%			
HI			TX					FL		PR
76.7%			59.5%					66.8%		79.2%
57.8%			51.0%					57.1%		70.3%

The demographics of US vaccination



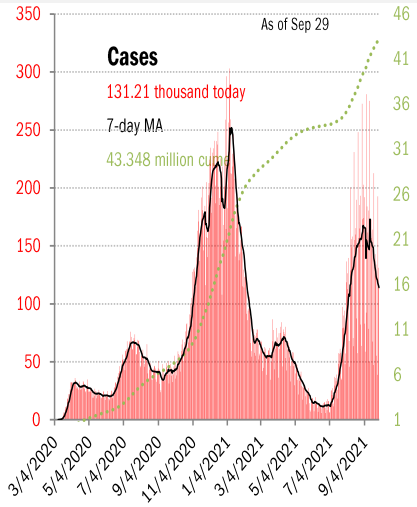


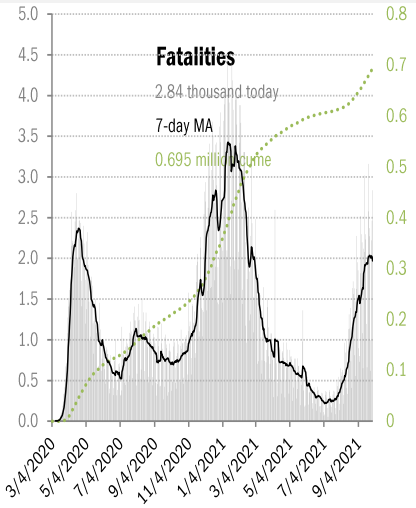


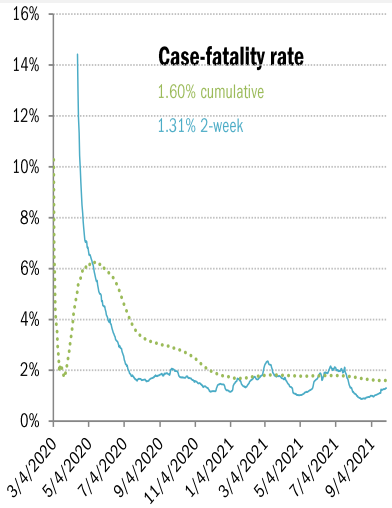
Source: CDC, CDC, Our World in Data, TrendMacro calculations

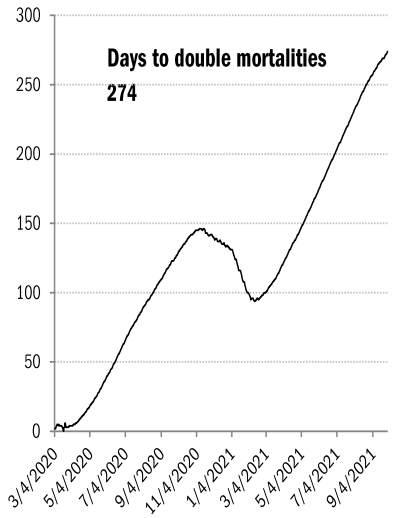
US deep-dive

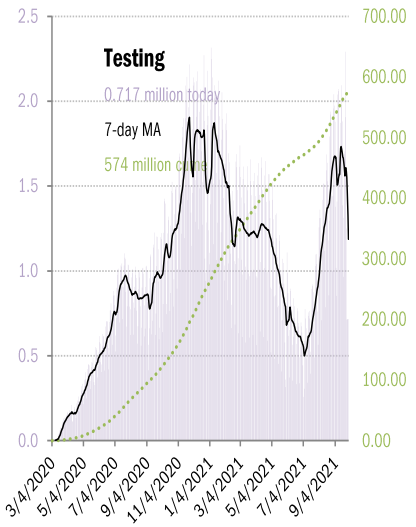
National and state-by-state data do not line up because of different sources

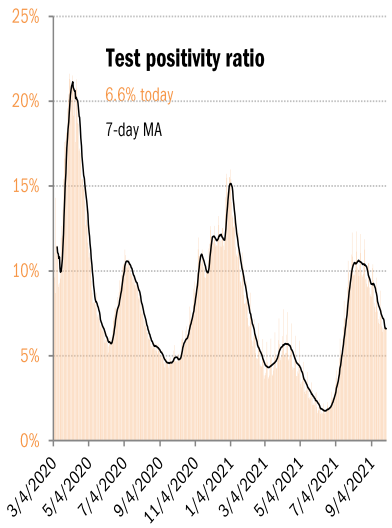


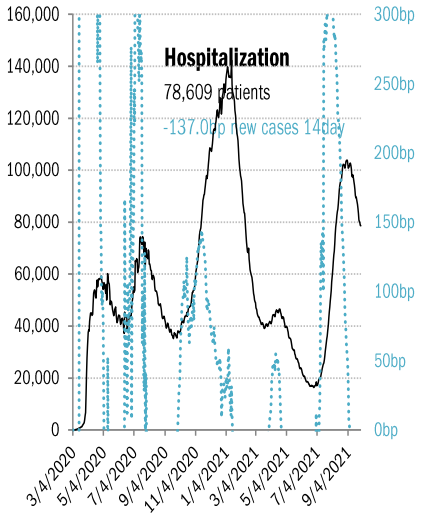


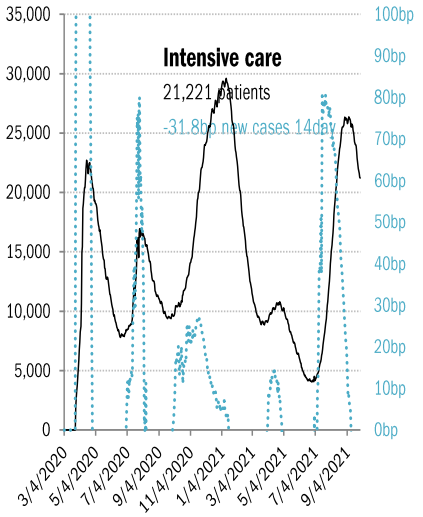


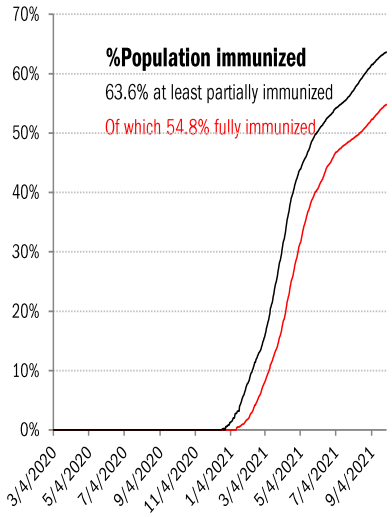












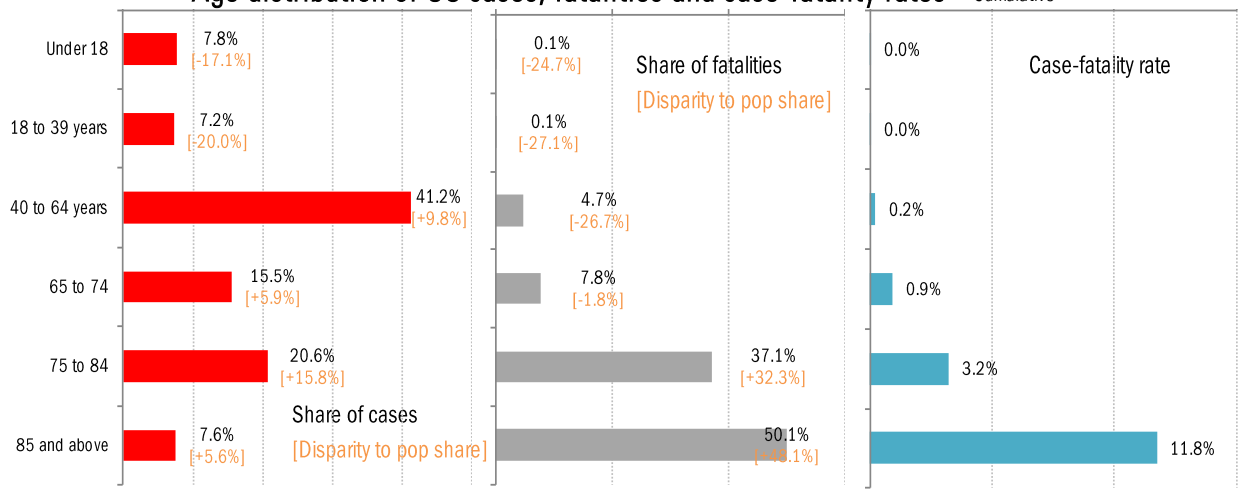
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

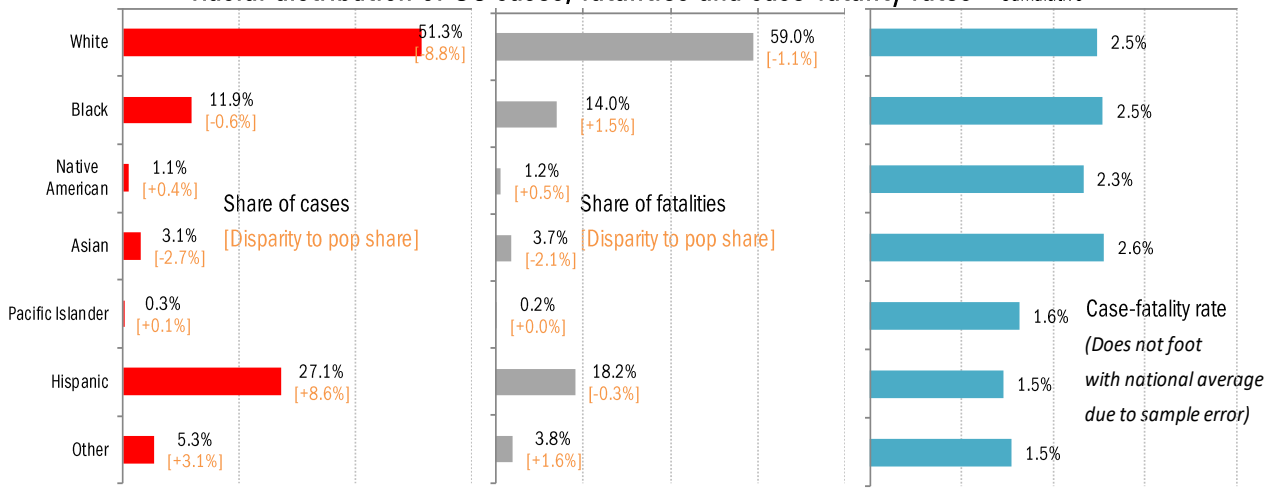
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



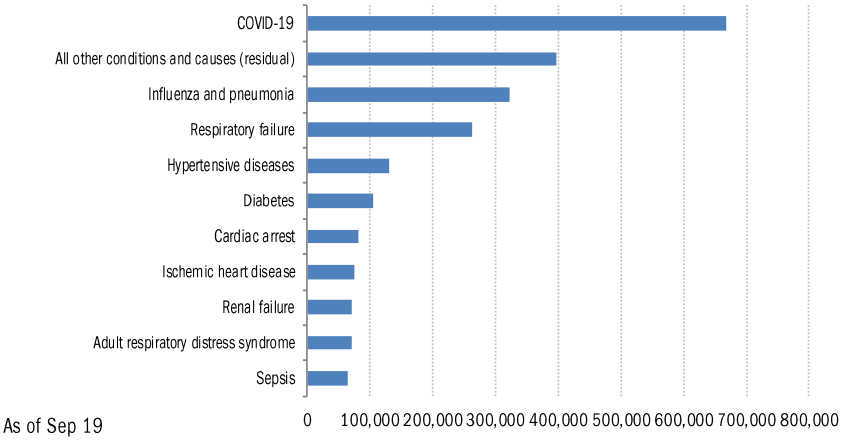
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Sep 19

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

[Who Is Suing Over New York's Vaccine Mandate?](#)
Joseph Goldstein and Sharon Otterman
New York Times
September 29, 2021

[How Asia, Once a Vaccination Laggard, Is Revving Up Inoculations](#)
Sui-Lee Wee, Damien Cave and Ben Dooley
New York Times
September 30, 2021

[New restrictions on prescribing ivermectin for COVID-19](#)
Australia Department of Health
September 10, 2021

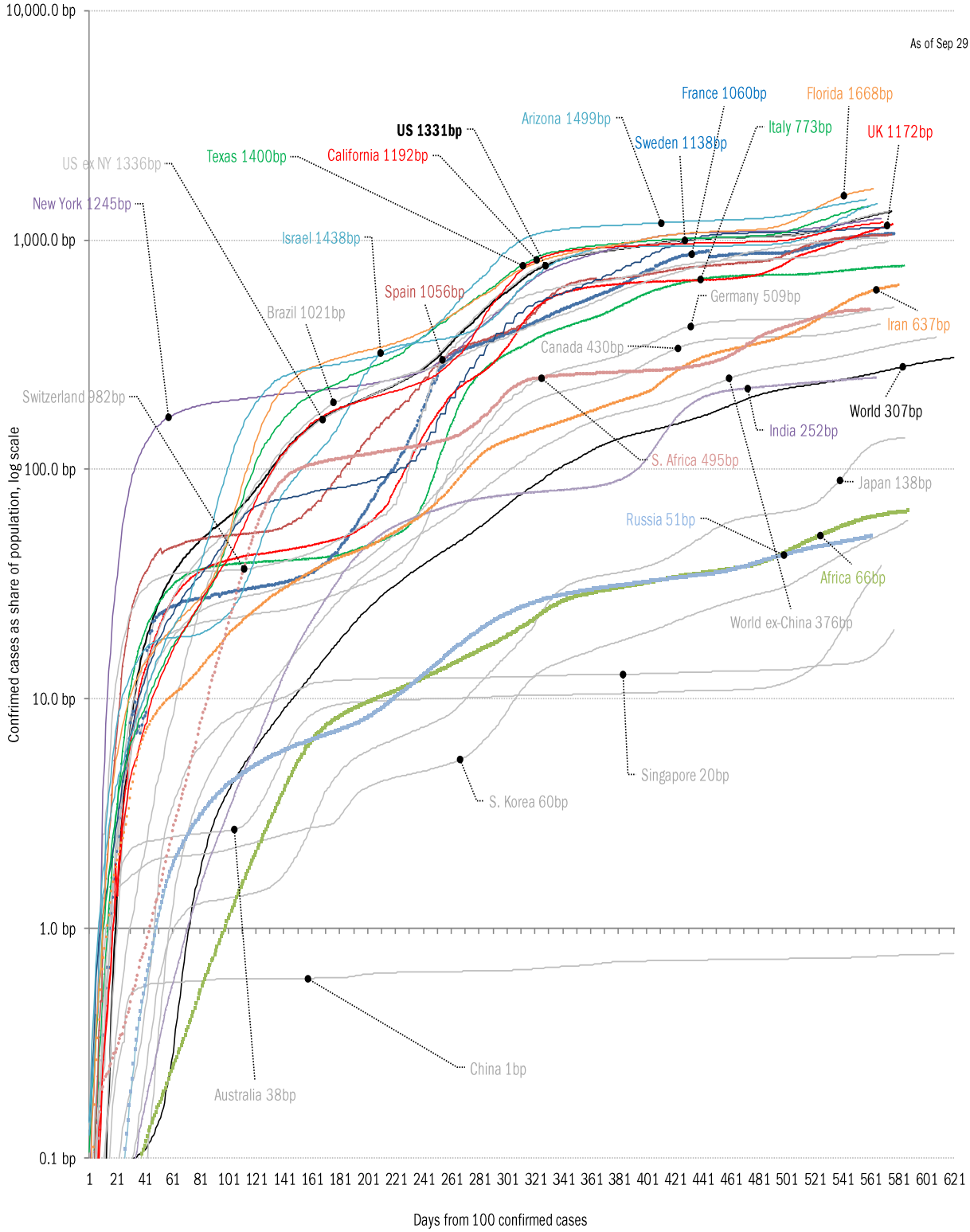
[Australia admits it is banning ivermectin for COVID because it interferes with universal vaccine agenda](#)
Daniel Horowitz
The Blaze
September 14, 2021

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

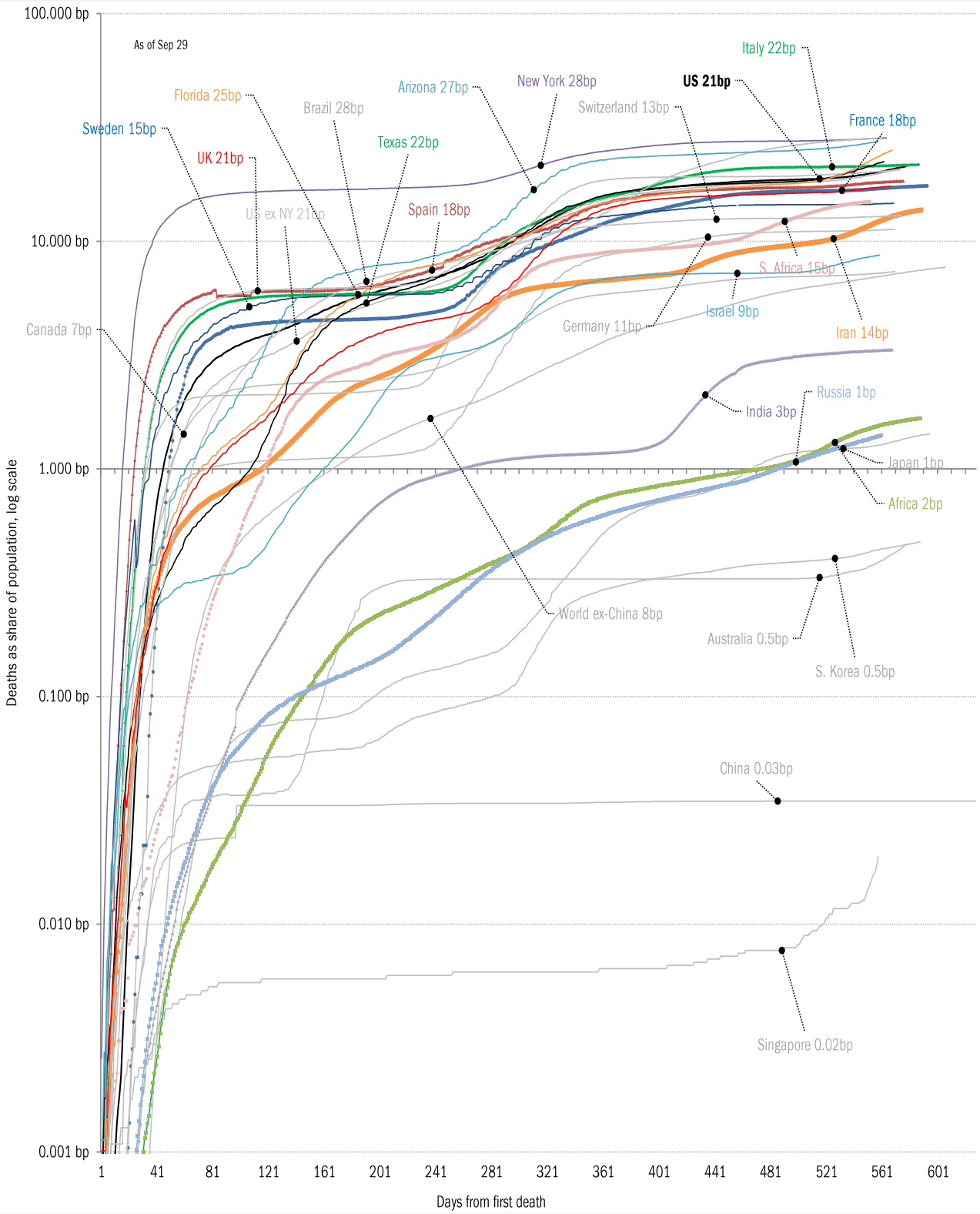
Share of infected population from first day with 100 confirmed cases, log scale



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

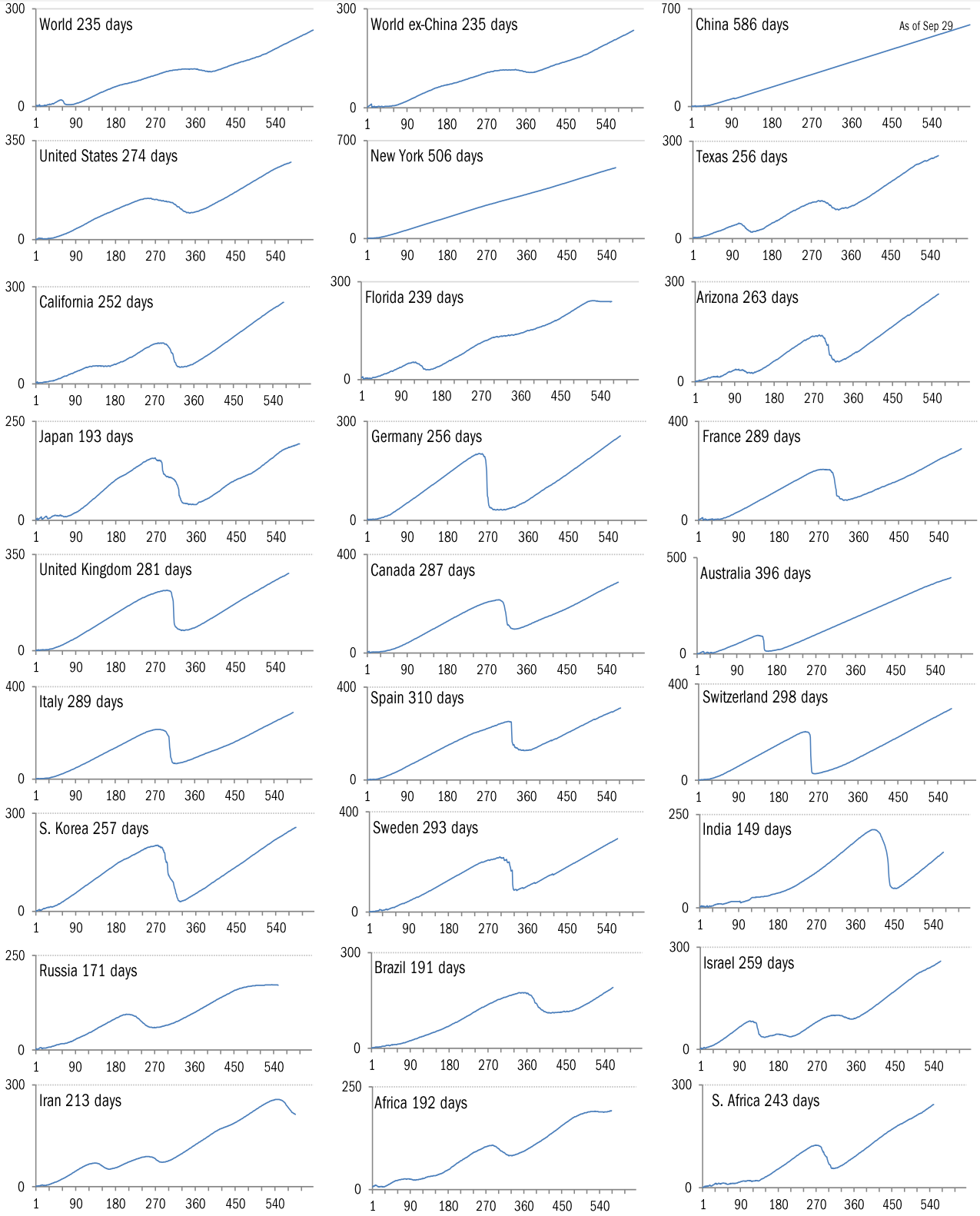


Source: Johns Hopkins, TrendMacro calculations

"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

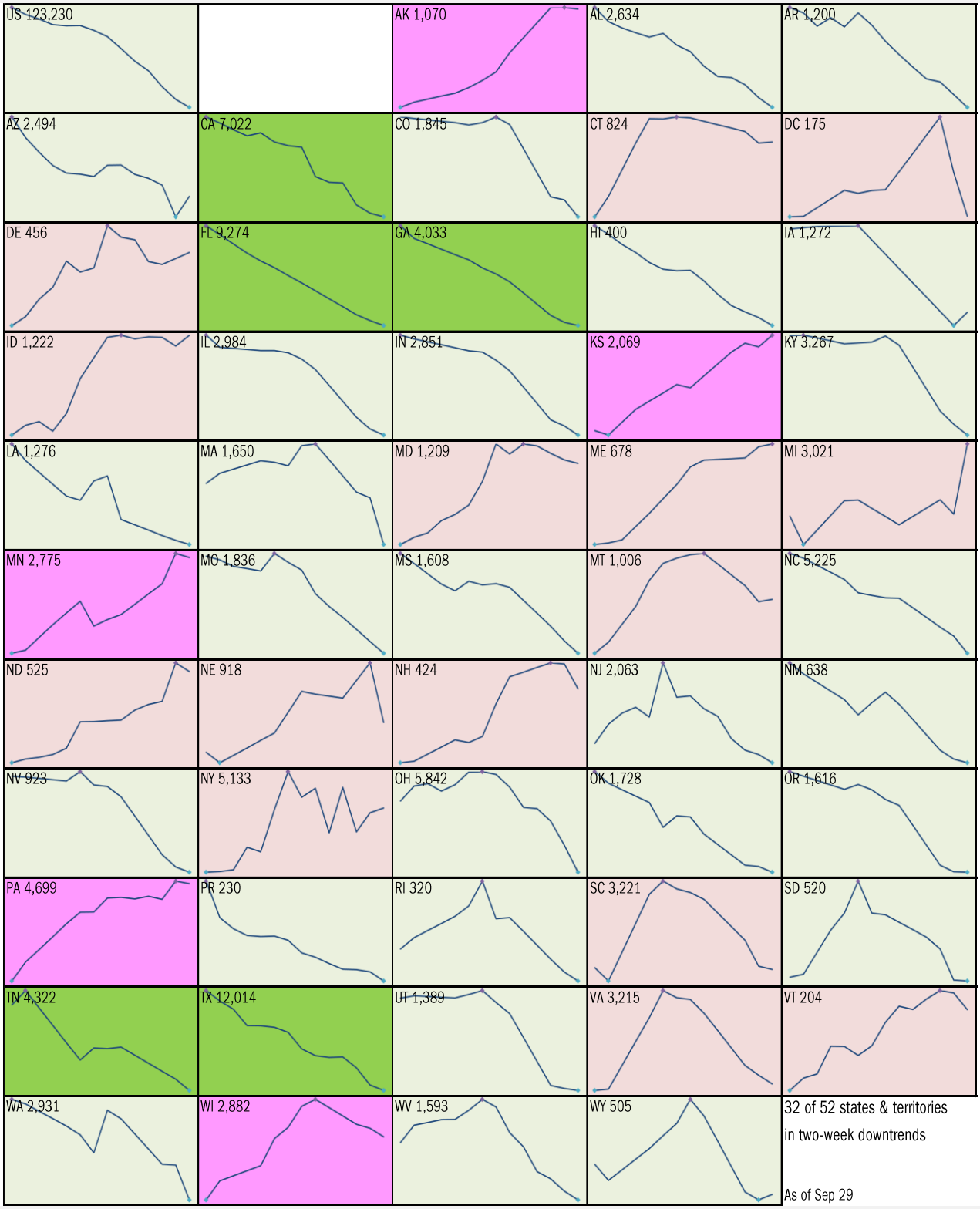


Source: Johns Hopkins, TrendMacro calculations

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

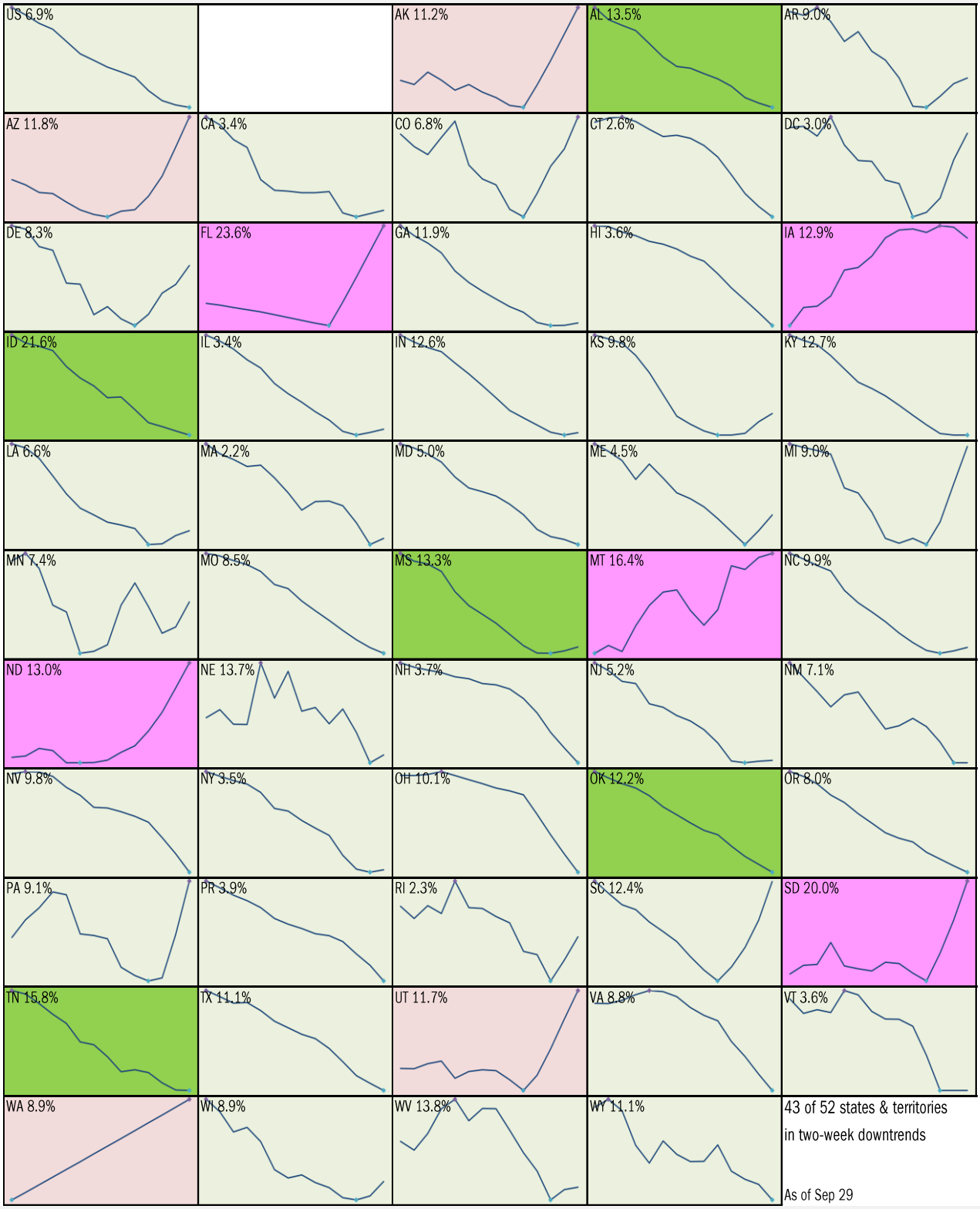


Source: Johns Hopkins, TrendMacro calculations

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

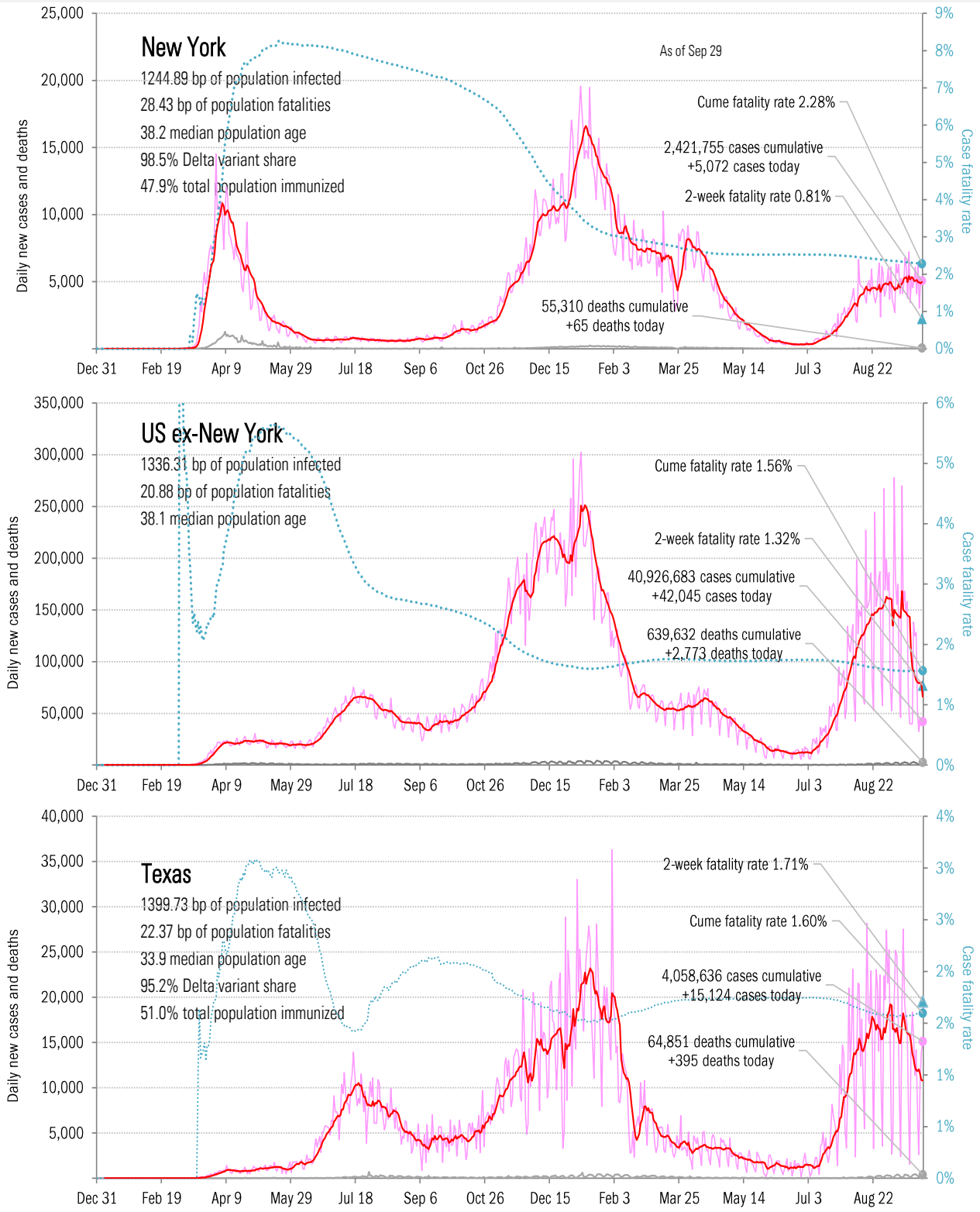
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

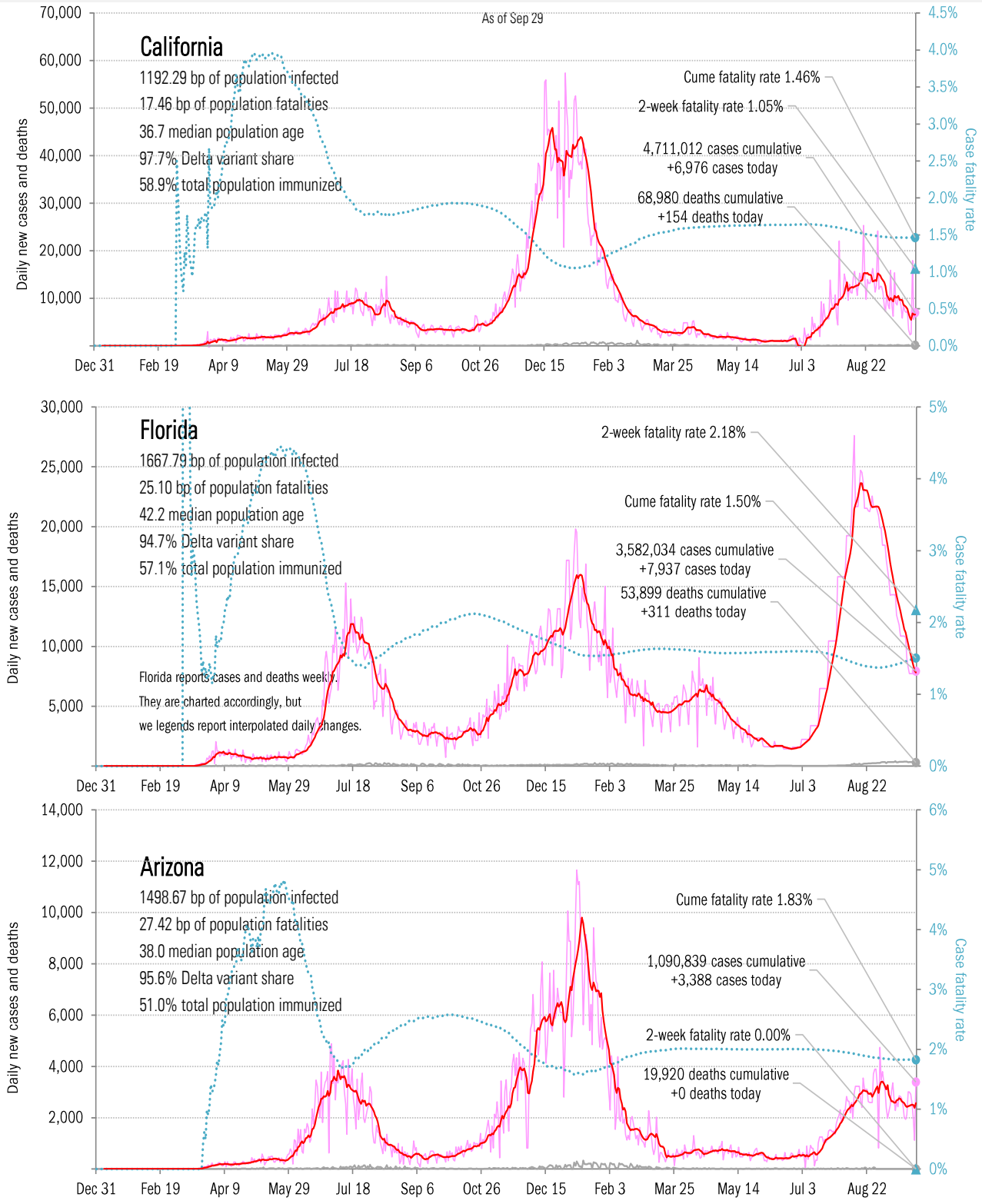
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

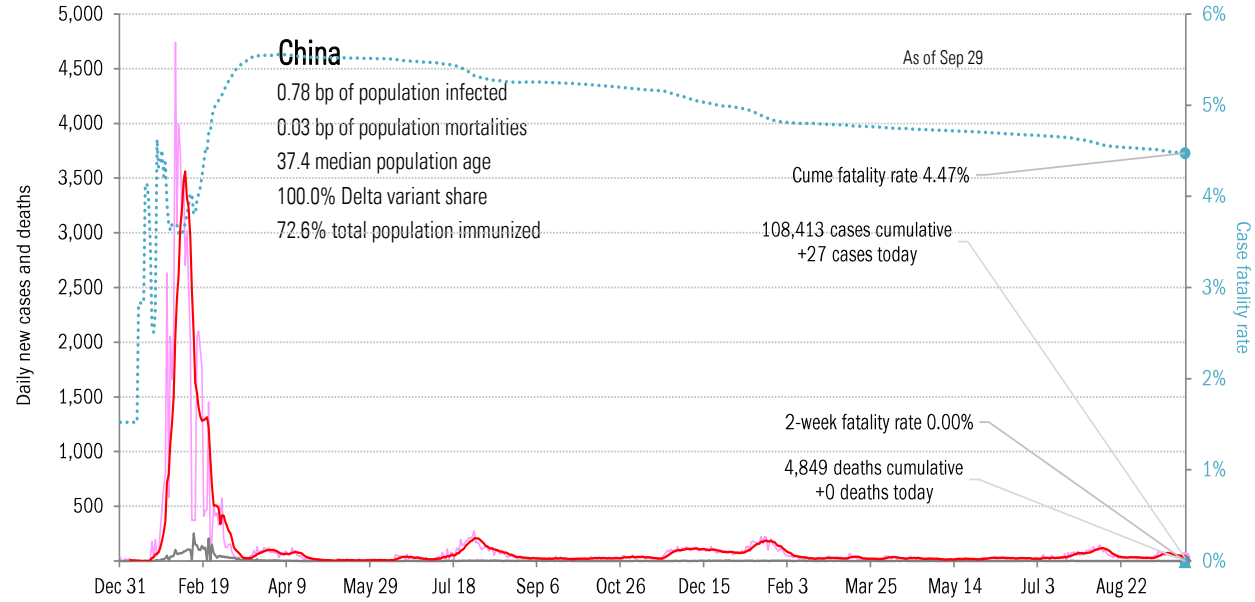
Cases: 7-day average and daily Deaths: Daily

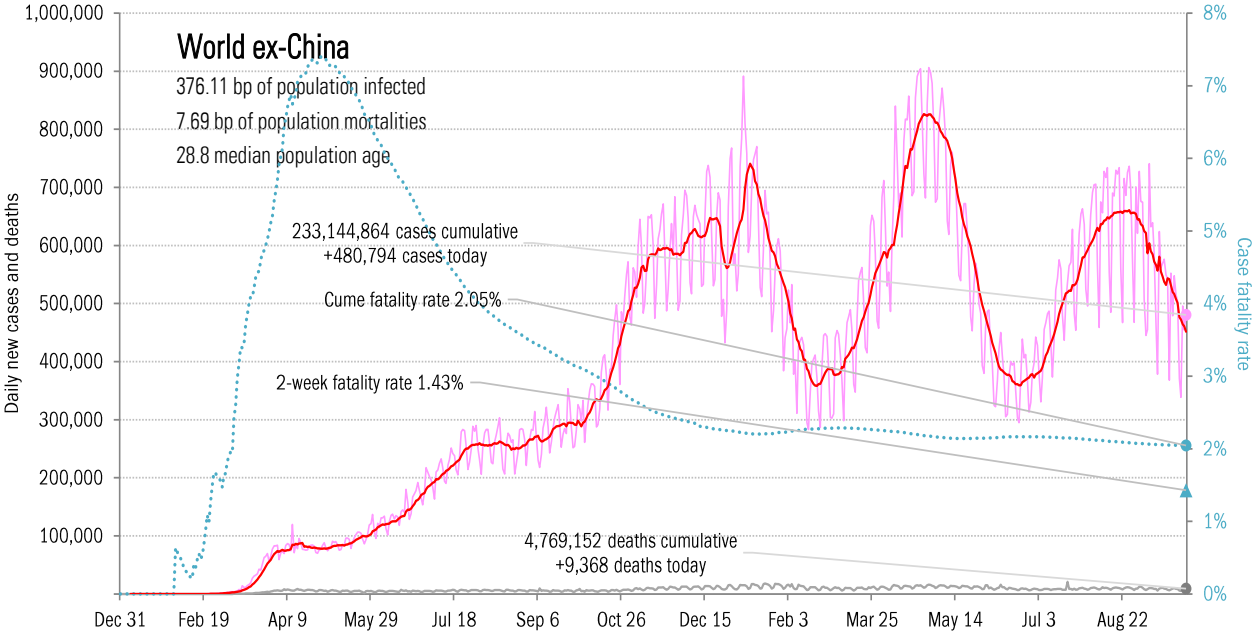


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

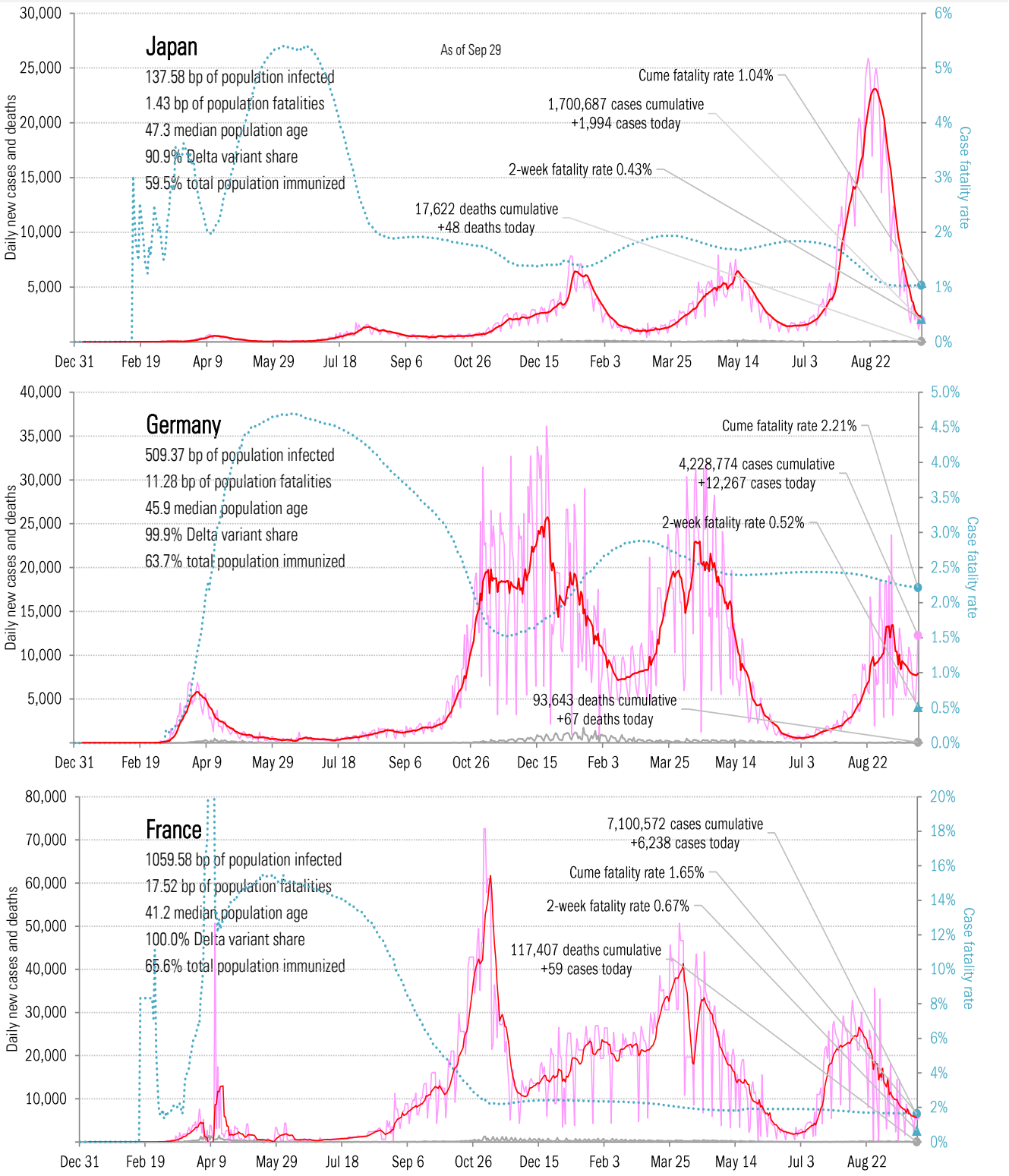




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

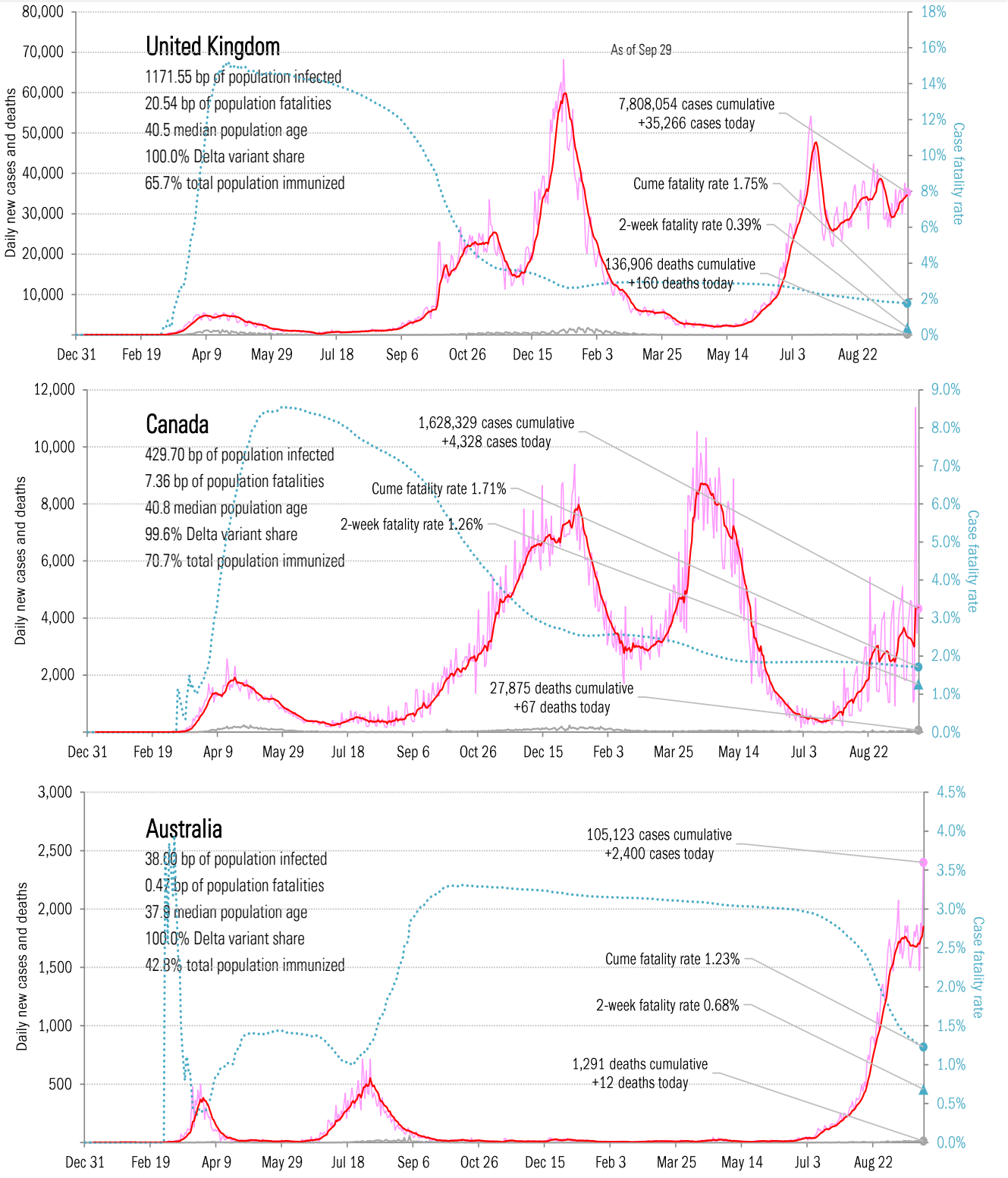
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

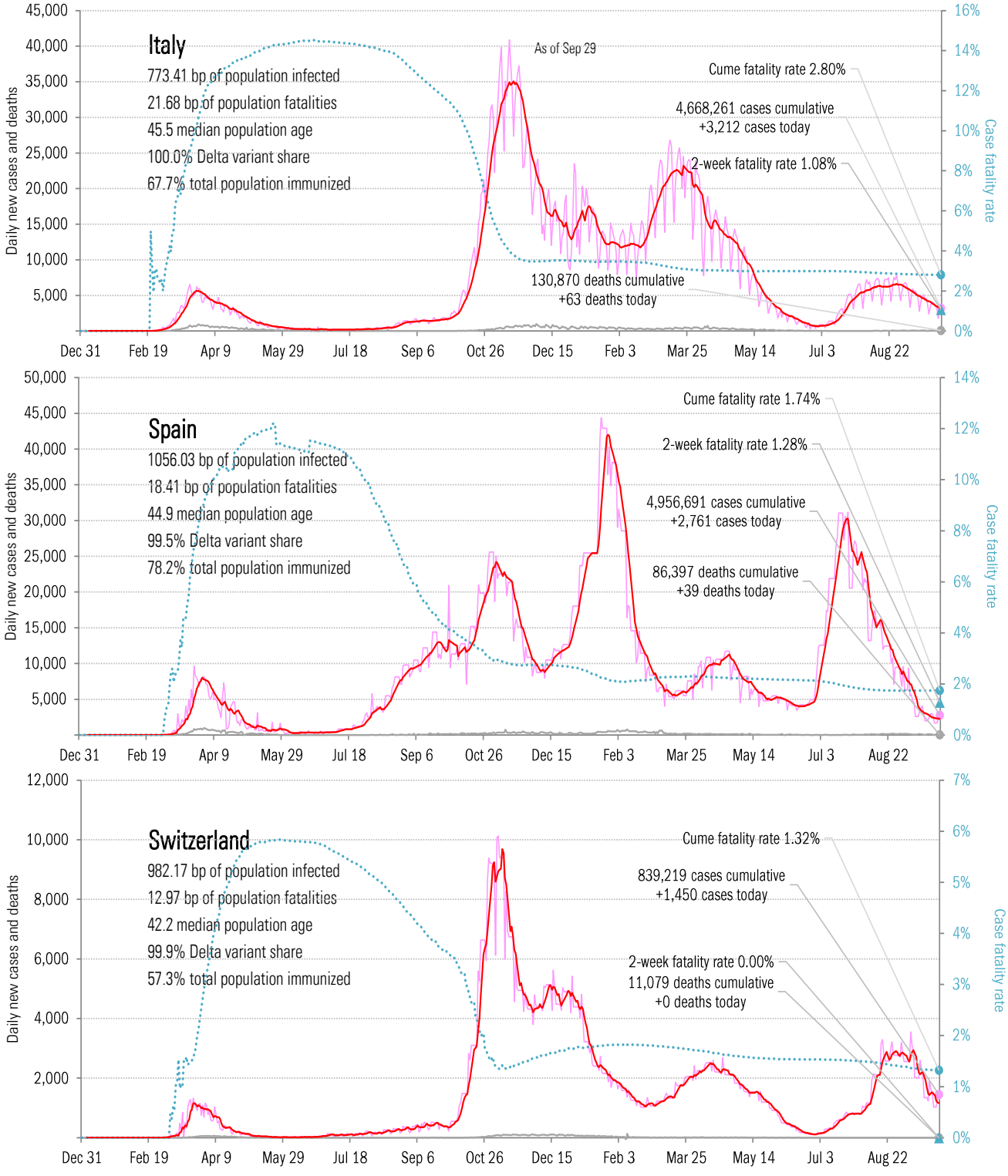
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

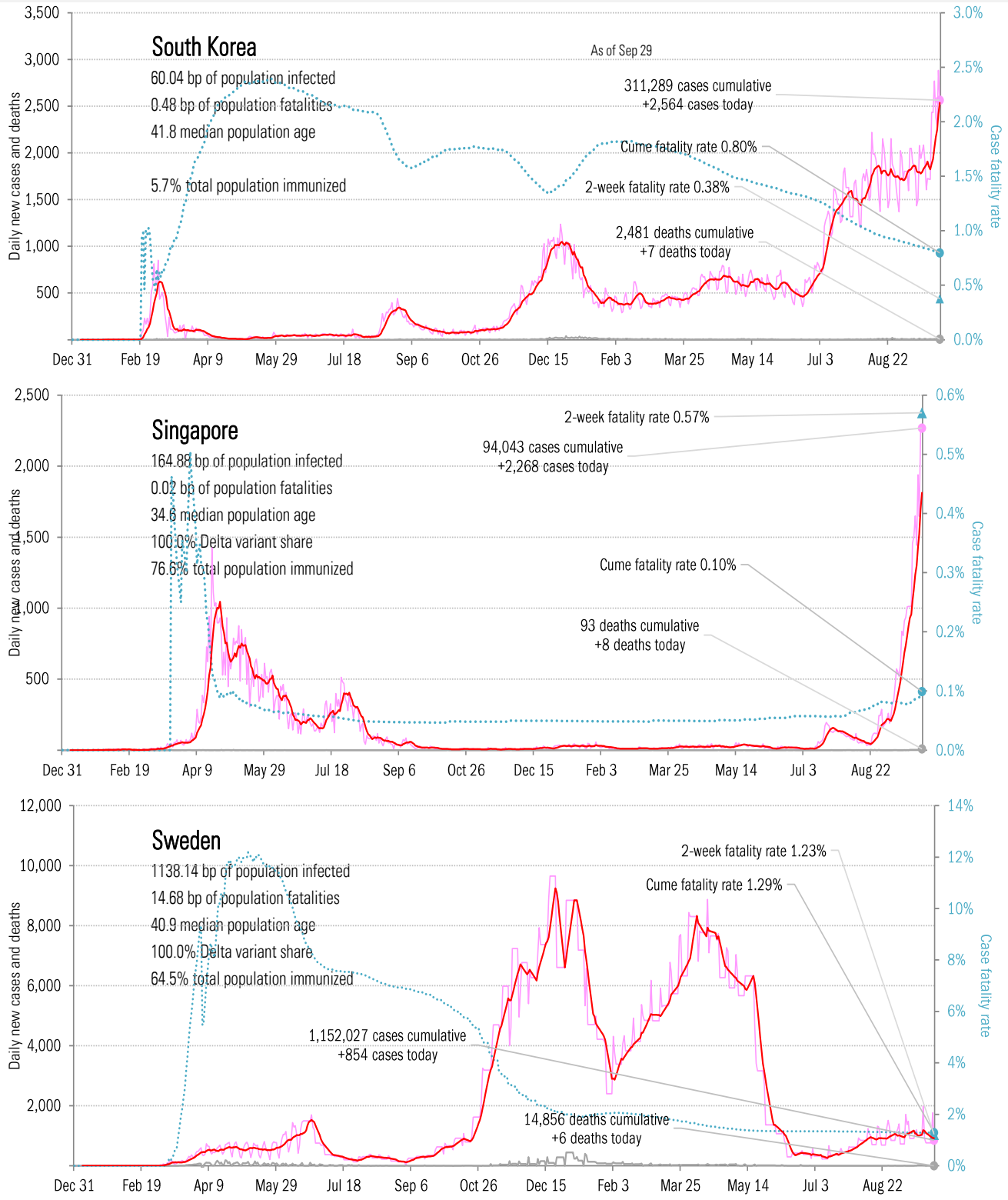
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

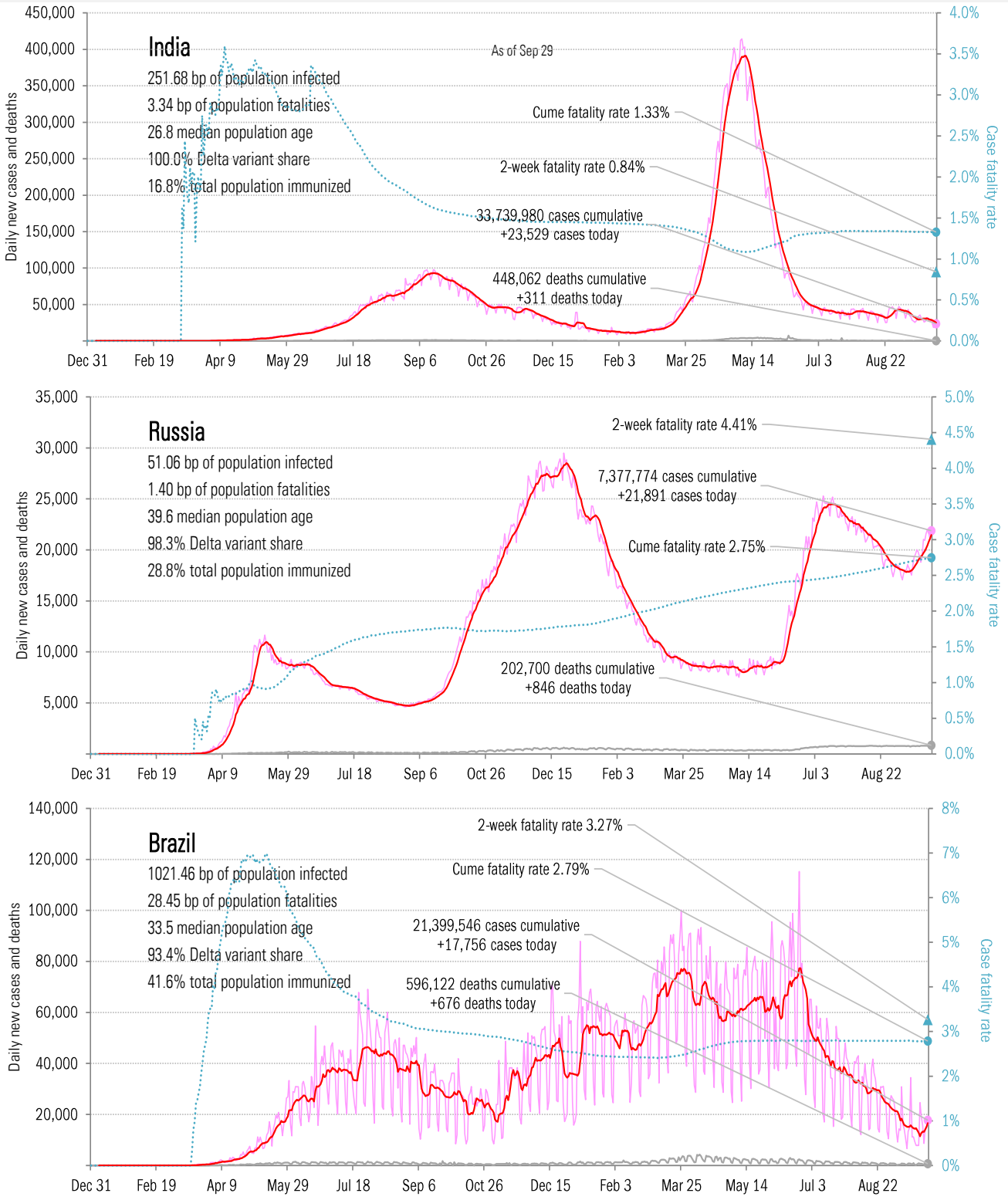
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

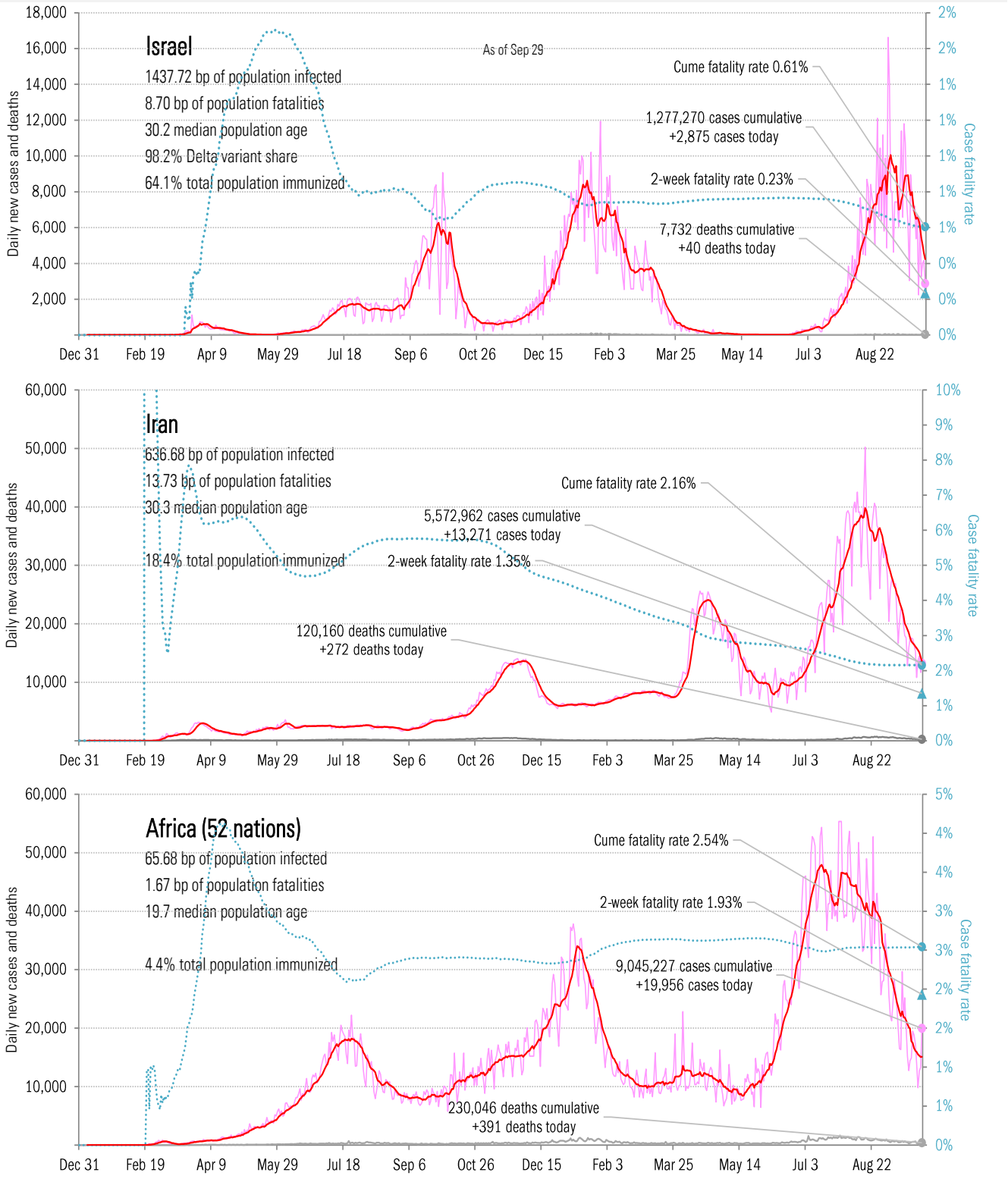
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

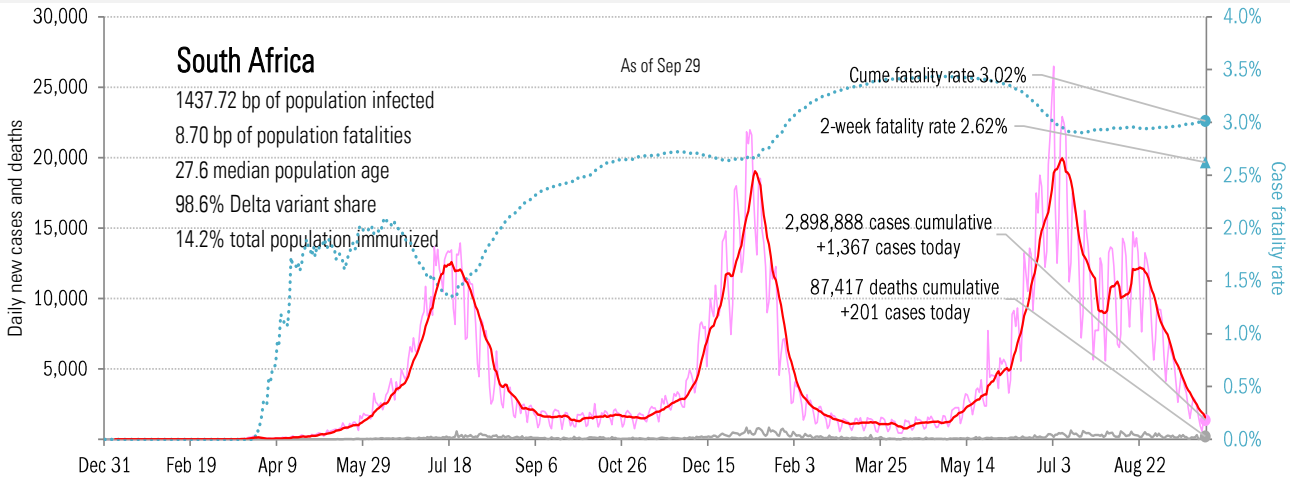
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations