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Data Insights: Covid-2019 Monitor

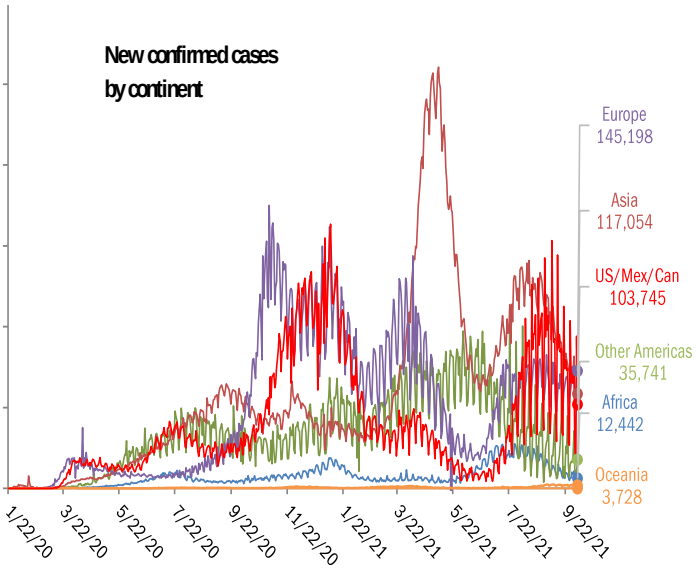
Wednesday, October 6, 2021

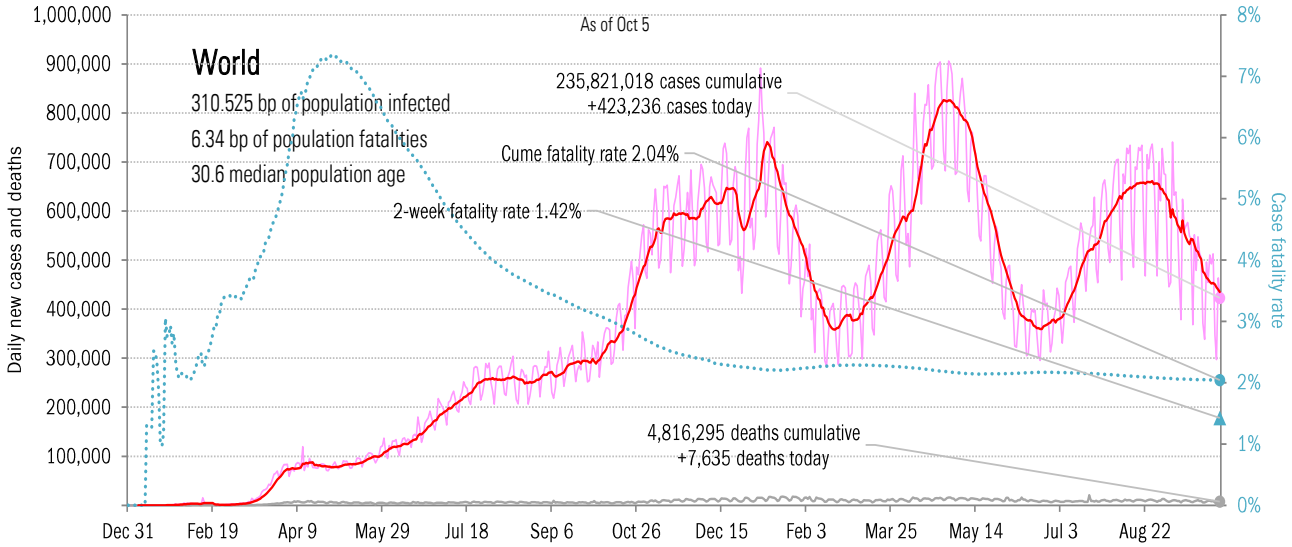
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	+101,084	United States	+2,135
United Kingdom	+33,184	Russia	+876
Turkey	+29,802	Brazil	+677
Russia	+24,465	Ukraine	+336
Brazil	+20,528	India	+278
India	+18,833	Romania	+252
Romania	+15,037	Turkey	+228
Iran	+13,226	Iran	+216
Ukraine	+10,491	United Kingdom	+166
Thailand	+9,869	Vietnam	+134
	+276,519		+5,298
World	+423,236	World	+7,635
Top ten	65%	Top ten	69%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

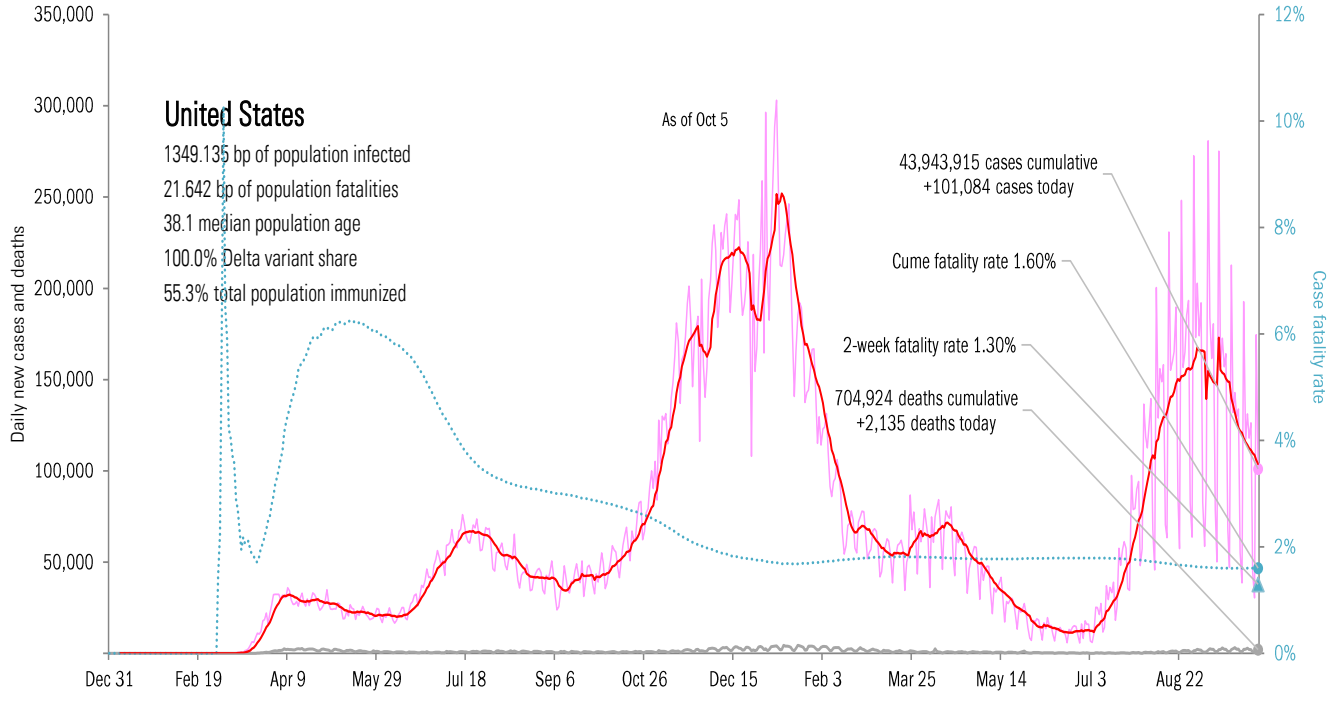
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TX	+12,257	TX	+274	PR	+6	CA	4,751,206	CA	69,500	TX	361,783	NV	84%	ID	90%
MN	+7,124	FL	+222	DE	+5	TX	4,105,397	TX	66,318	FL	310,177	RI	84%	GA	89%
OH	+5,533	OH	+217	NM	+3	FL	3,616,010	NY	55,531	CA	299,139	MA	84%	TX	89%
FL	+5,328	GA	+179	MT	+2	NY	2,449,261	FL	55,352	NY	157,090	GA	82%	AL	89%
WI	+4,797	MO	+120	VI	+2	IL	1,641,052	PA	29,611	GA	153,387	PA	82%	KY	87%
CA	+4,605	TN	+81	AS	+0	GA	1,592,731	IL	27,531	OH	113,745	MD	81%	OK	86%
PA	+4,019	PA	+80	GU	+0	PA	1,453,387	NJ	27,525	PA	108,054	MI	80%	AR	86%
NY	+3,890	AZ	+74	MP	+0	OH	1,439,490	GA	26,624	KY	107,498	SC	79%	WV	86%
IA	+3,329	AL	+71	SD	+0	NC	1,413,586	MI	22,503	IL	100,665	MN	79%	NC	85%
TN	+3,181	IN	+71	RI	-+1	TN	1,241,204	OH	22,490	MI	84,448	WA	78%	AK	84%
	+54,063		+1,389		+17		23,703,324		402,985		1,795,986				
All states	+101,084		+2,135		-2004	All states	43,943,915		704,924		3,194,592	All states	70%		67%
Top ten	53%		65%		-1%	Top ten	54%		57%		56%	Median	75%		78%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-9,819	CA	-142	TX	-134	WA	+50 bp
CA	-9,577	SC	-105	OH	-105	PR	+40 bp
NC	-8,001	KY	-87	IL	-95	MS	+30 bp
VA	-6,334	NC	-69	KY	-69	TN	+30 bp
SC	-5,687	MI	-64	NV	-62	UT	+30 bp



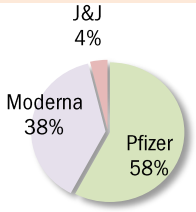
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	408,894,652				+0.800 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	220,978,782	66%	190,719,566	57%	+0.272 million
Age 12 to 17	13,783,590	58%	11,248,093	47%	+0.035 million
Age 18 to 64	152,802,032	75%	131,263,499	64%	+0.209 million
Age 65 and over	53,312,849	97%	47,324,330	87%	+0.027 million

Immunity	Full	Partial
US	55.3%	64.2%
UK	66.0%	71.8%
France	66.2%	74.7%
Spain	78.7%	80.7%
Germany	64.3%	67.7%
Italy	68.5%	75.4%
Australia	46.9%	66.8%
Israel	64.5%	70.1%
Canada	71.5%	77.3%
Japan	62.6%	72.5%
Africa	4.6%	6.9%
India	18.1%	47.8%
Brazil	44.3%	71.3%
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

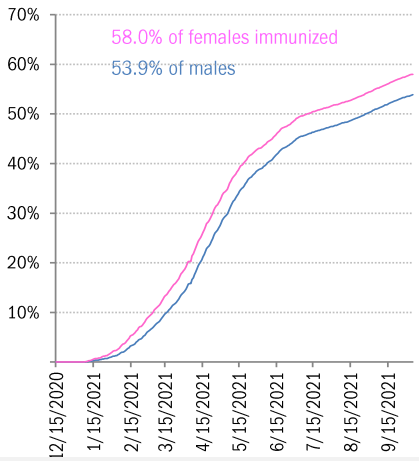
Every American >18 immune in
101 days
by Jan 13, 2022

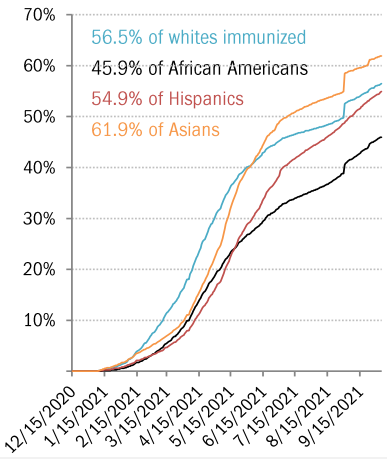
69.2% of population >18 immunized
15.0% previously tested positive
84.1% vs 60% adult herd immunity

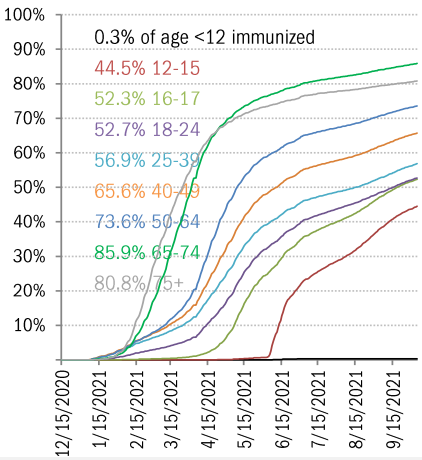
As of Oct 5

AK					WI					ME
57.6%					61.2%					74.4%
50.9%					56.8%					68.7%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
67.7%	47.4%	55.1%	51.3%	63.7%	68.9%	57.4%		71.9%	78.1%	70.8%
61.5%	42.0%	48.8%	44.5%	58.4%	53.9%	52.7%		64.3%	69.8%	61.8%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
66.9%	61.2%	48.9%	59.6%	58.4%	52.5%	54.5%	73.2%	72.9%	77.9%	
61.2%	51.2%	42.0%	51.9%	54.3%	48.7%	50.6%	58.2%	64.7%	68.2%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
72.2%	59.4%	65.9%	59.7%	55.2%	61.2%	48.3%	68.9%	71.0%	76.8%	75.8%
59.4%	51.2%	59.8%	55.0%	48.3%	52.9%	40.5%	61.0%	64.4%	69.1%	68.8%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	59.6%	73.0%	60.3%	56.0%	53.1%	60.4%	55.7%	71.4%	66.6%	
	51.5%	63.5%	51.5%	46.0%	45.9%	50.2%	47.8%	60.5%	57.9%	
			OK	LA	MS	AL	GA			
			57.0%	52.1%	50.5%	53.0%	55.1%			
			48.1%	45.8%	43.9%	43.1%	45.7%			
HI			TX					FL		PR
77.0%			59.9%					67.3%		79.8%
58.3%			51.6%					57.8%		71.1%

The demographics of US vaccination



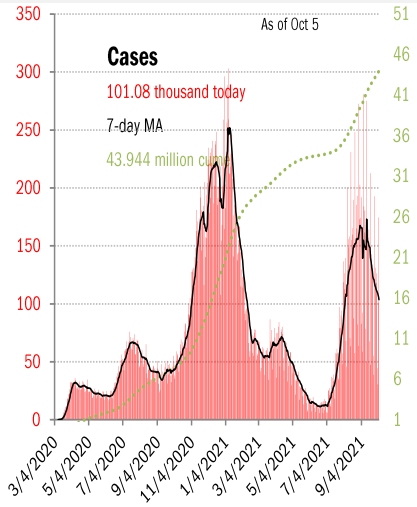


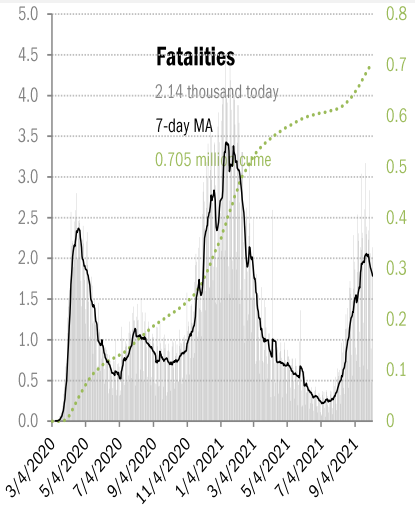


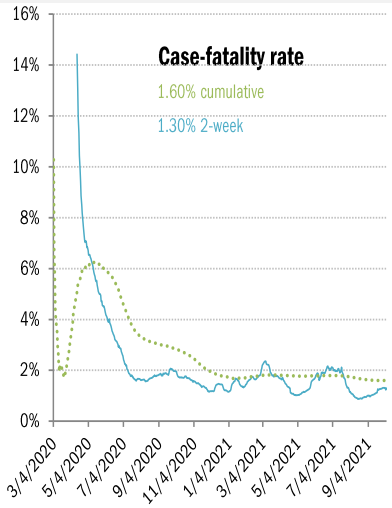
Source: CDC, CDC, Our World in Data, TrendMacro calculations

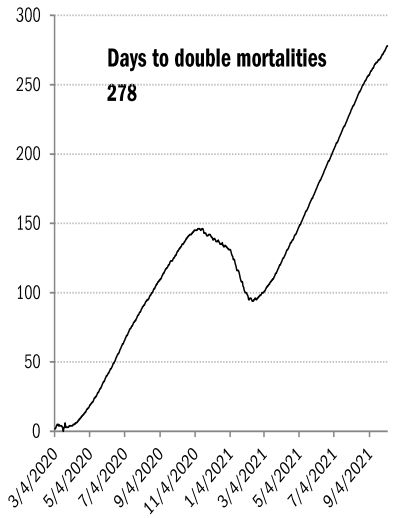
US deep-dive

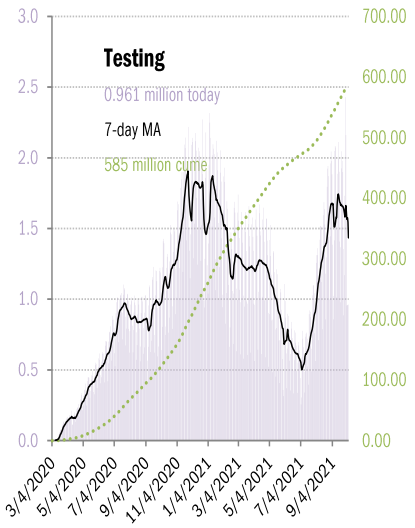
National and state-by-state data do not line up because of different sources

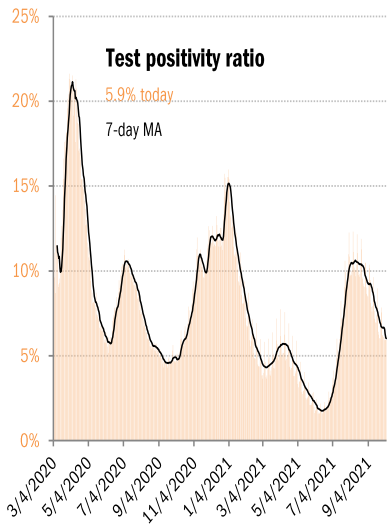


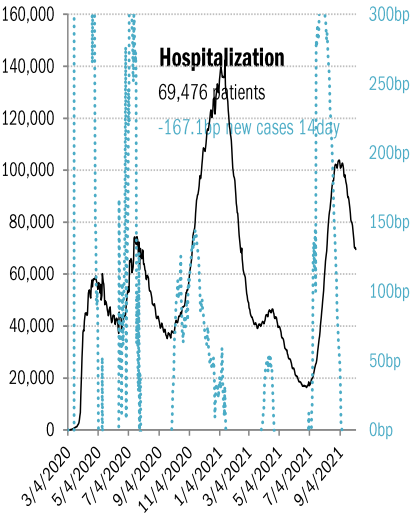


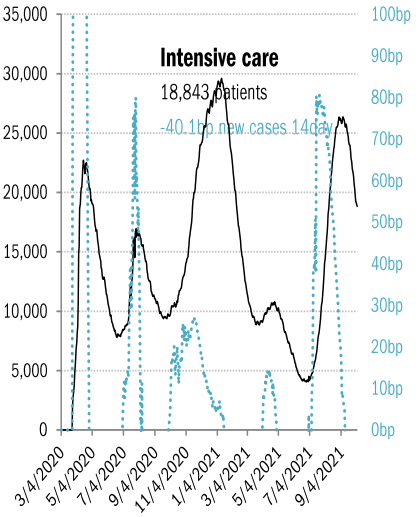


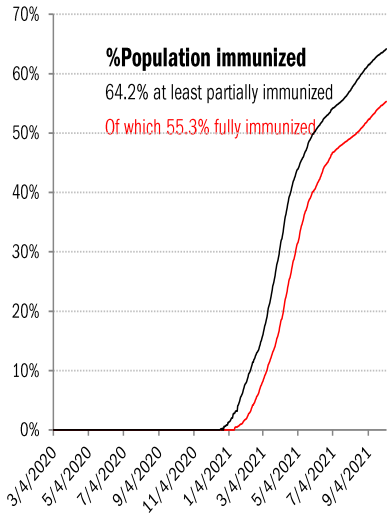












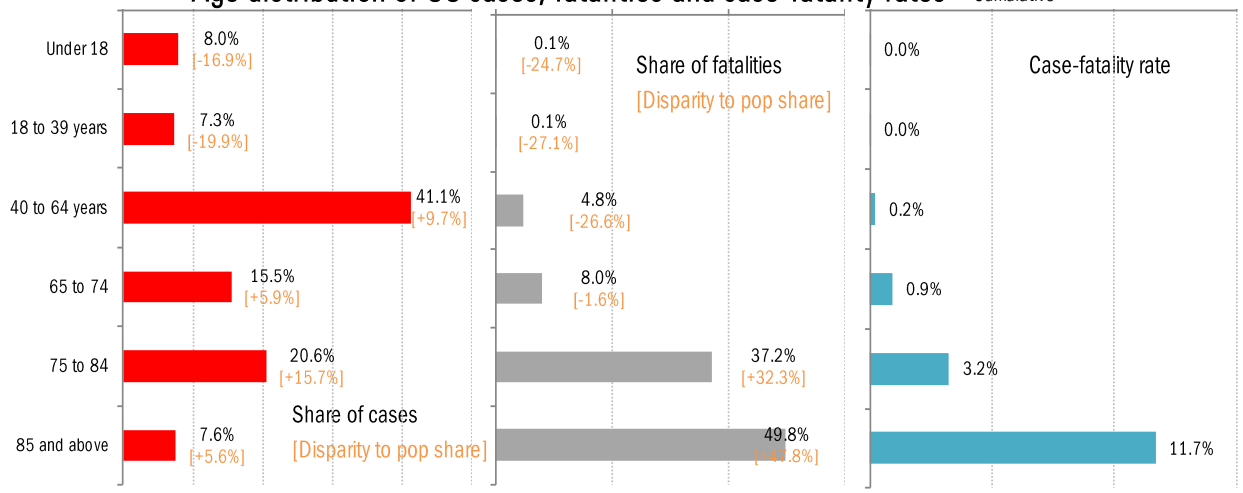
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

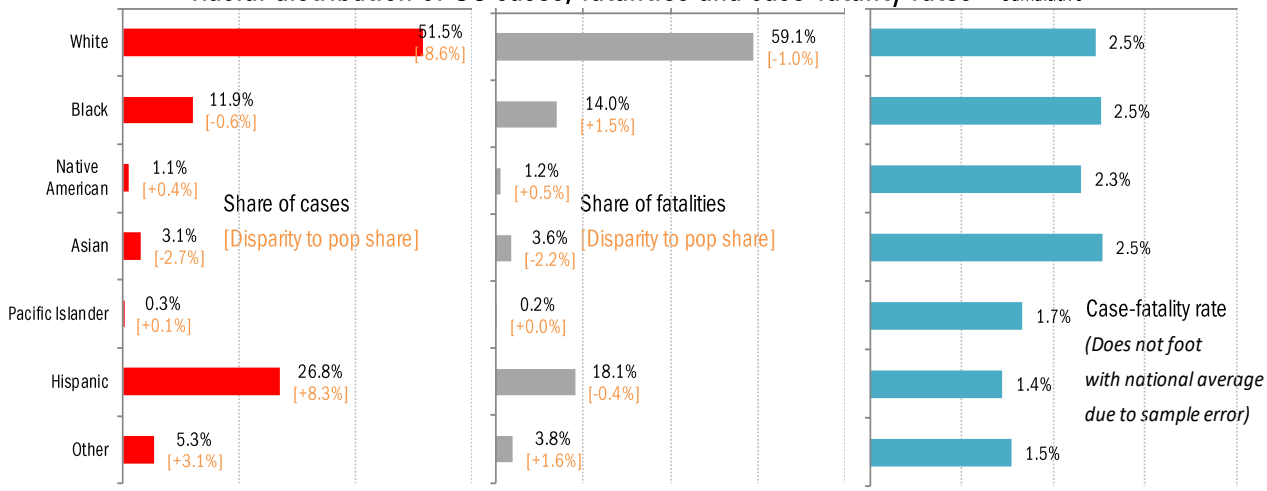
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



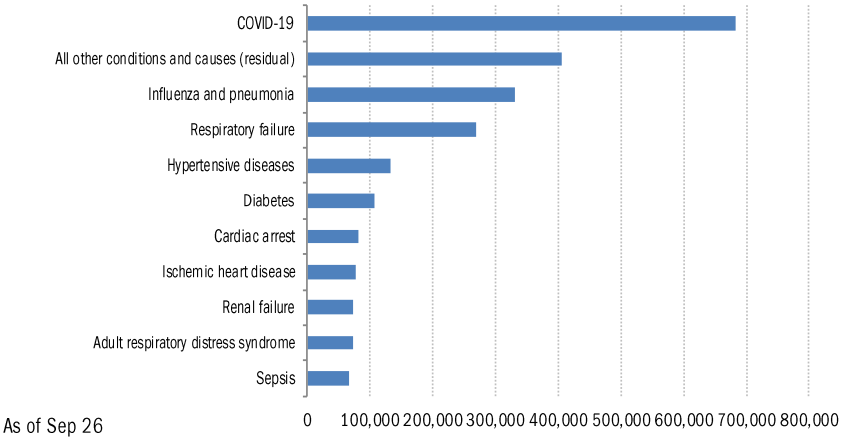
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Sep 26

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

Science Closes In on Covid's Origins
Richard Muller and Steven Quay
Wall Street Journal
October 5, 2021

With New COVID Policy, Israel Redefines What It Means to Be Vaccinated
Sam Sokol
Haaretz
October 4, 2021

Vaccines Work: 97% Of COVID Deaths, 95% Of Hospitalizations And 94% Of Cases Are Among Unvaccinated Pennsylvanians
Pennsylvania Department of Health
September 14, 2021

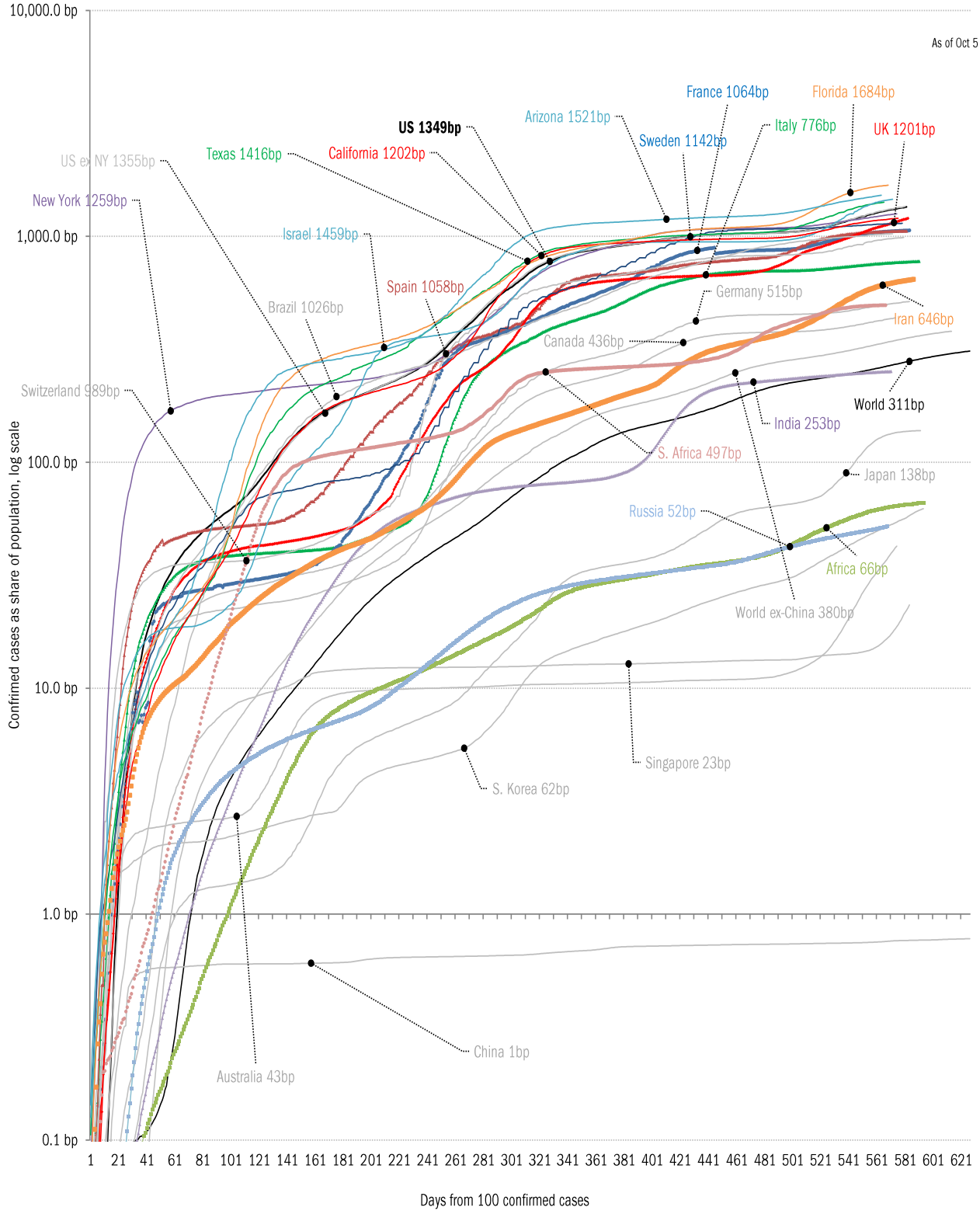
The country with the best data shows infection rates higher among the vaccinated
Daniel Horowitz
The Blaze
October 4, 2021

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

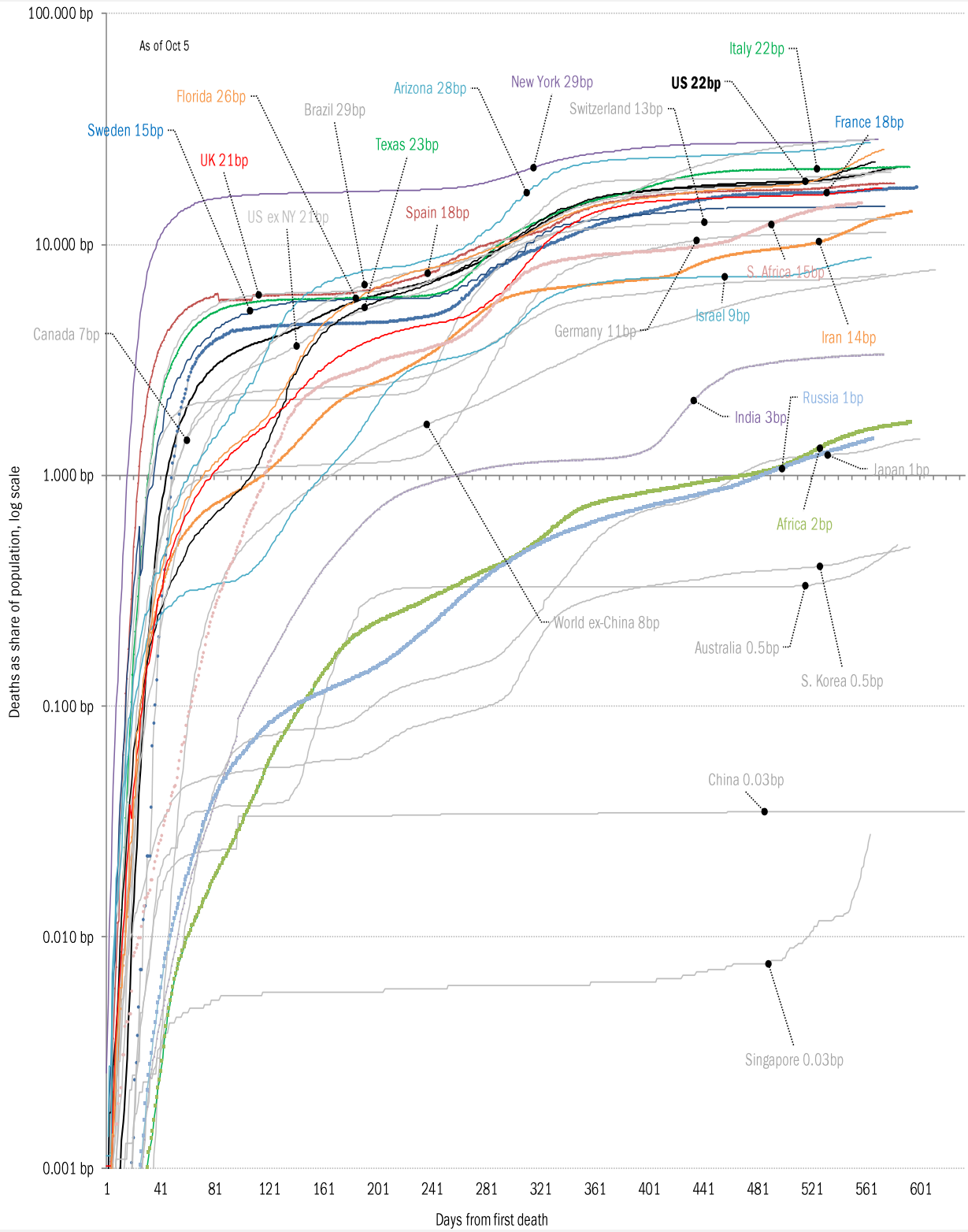
Share of infected population from first day with 100 confirmed cases, log scale



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

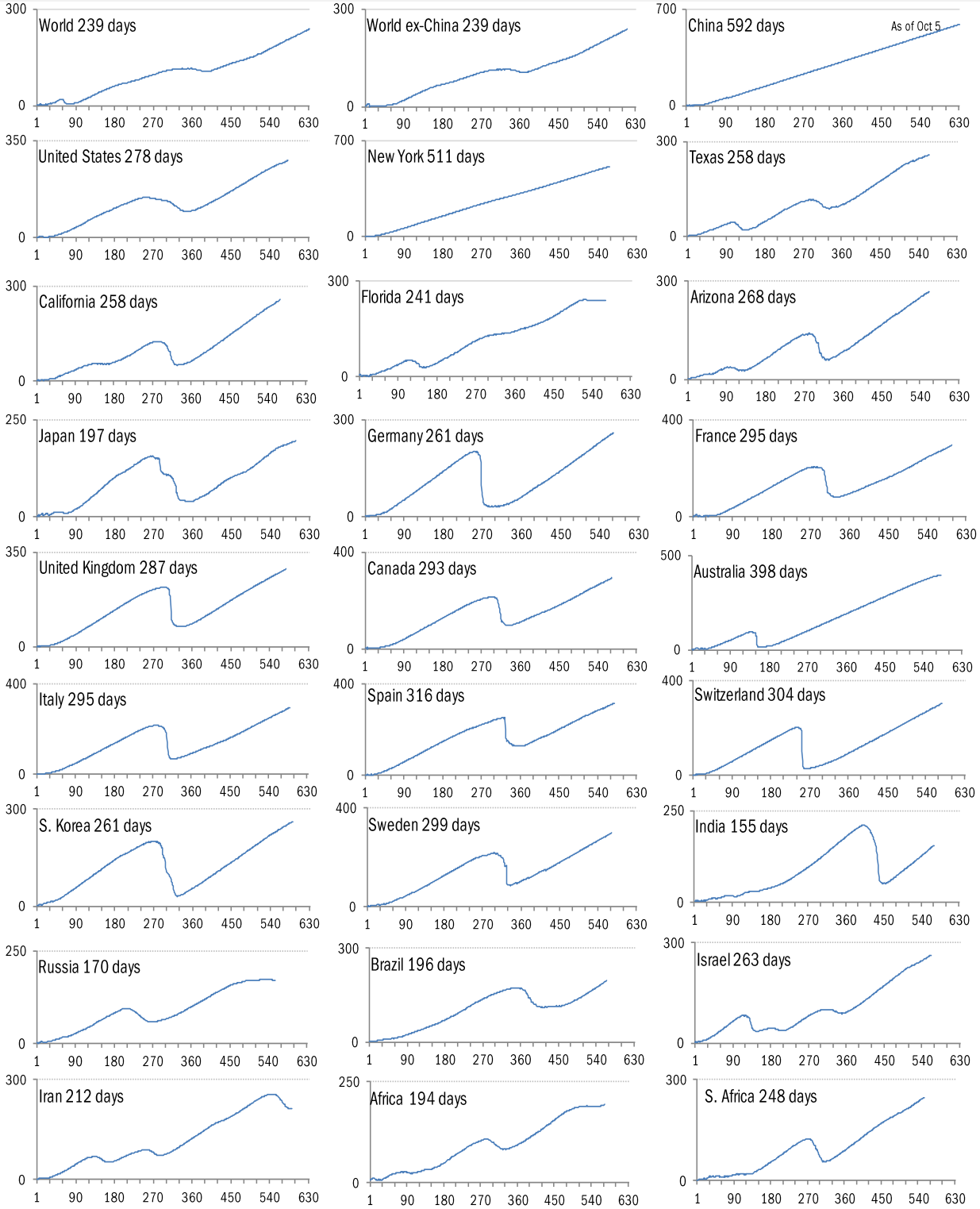


Source: Johns Hopkins, TrendMacro calculations

"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

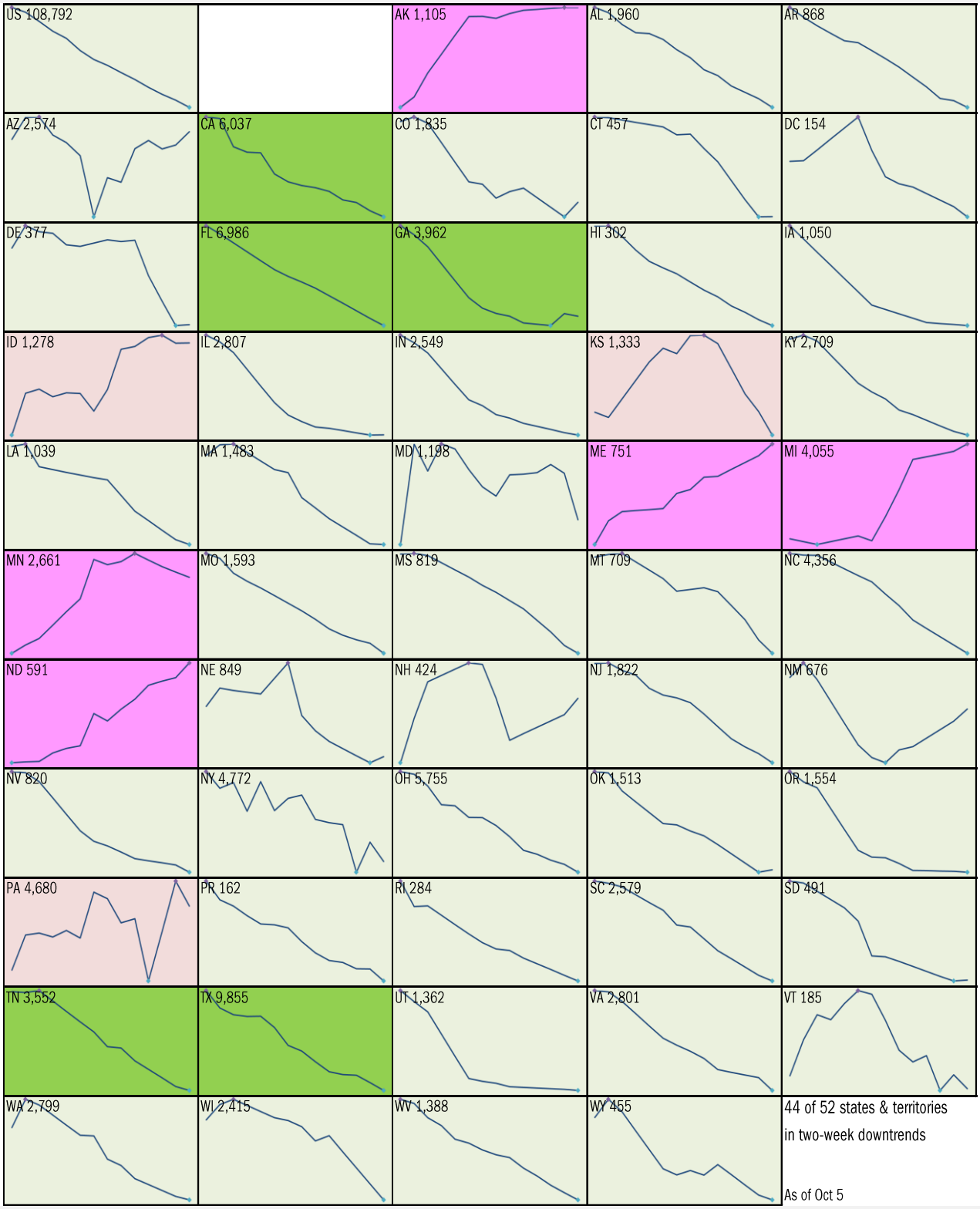


Source: Johns Hopkins, TrendMacro calculations

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

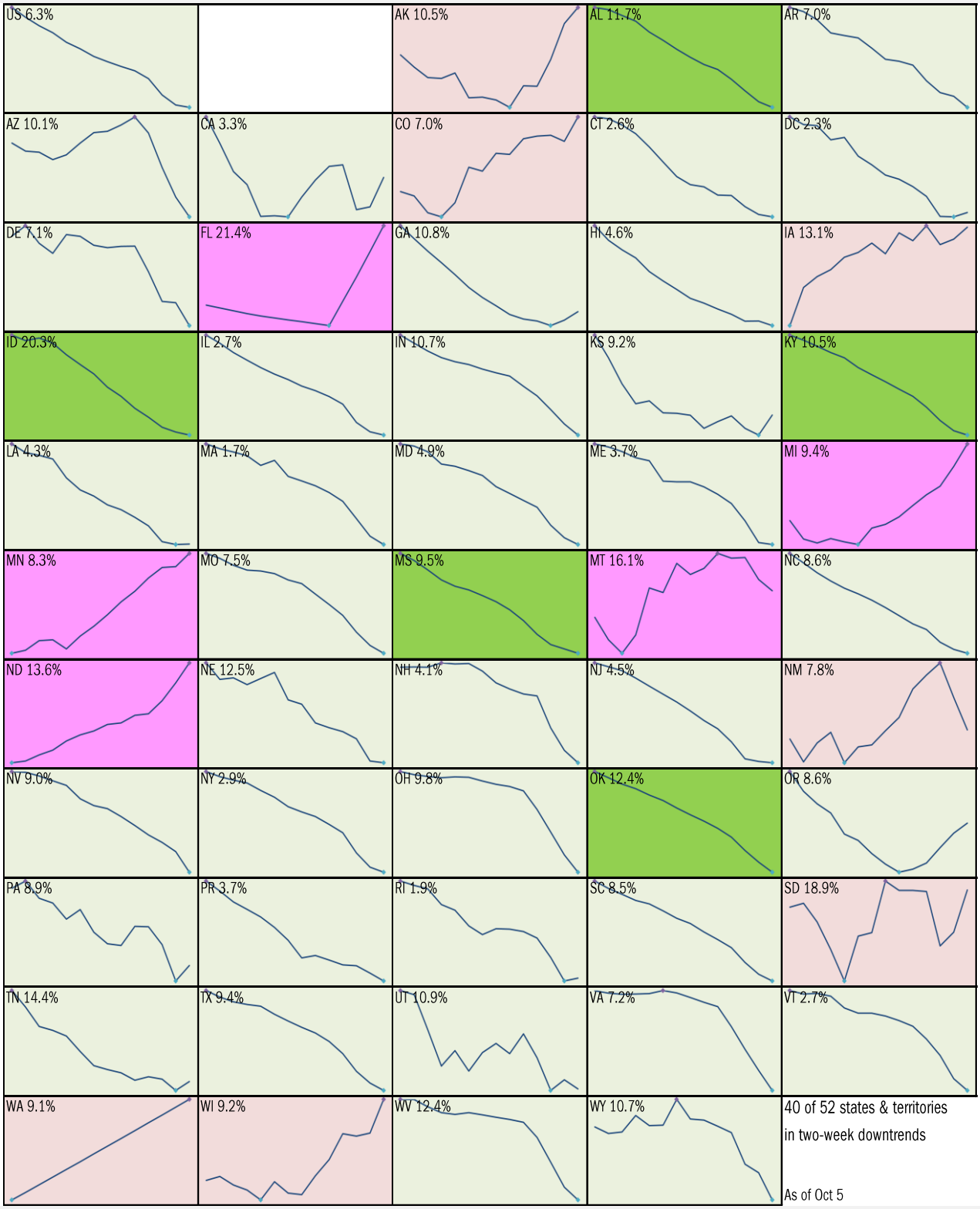


Source: Johns Hopkins, TrendMacro calculations

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

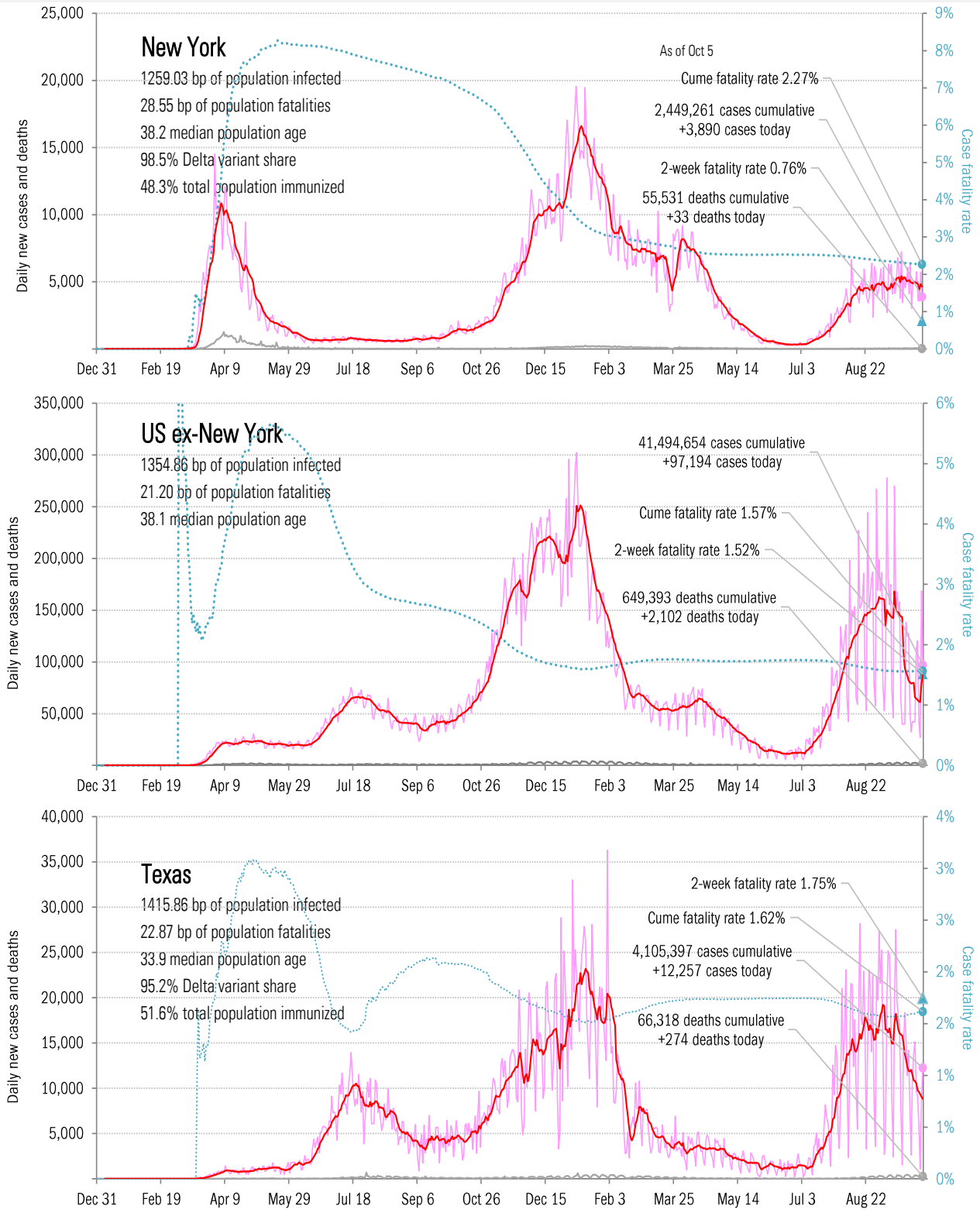
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

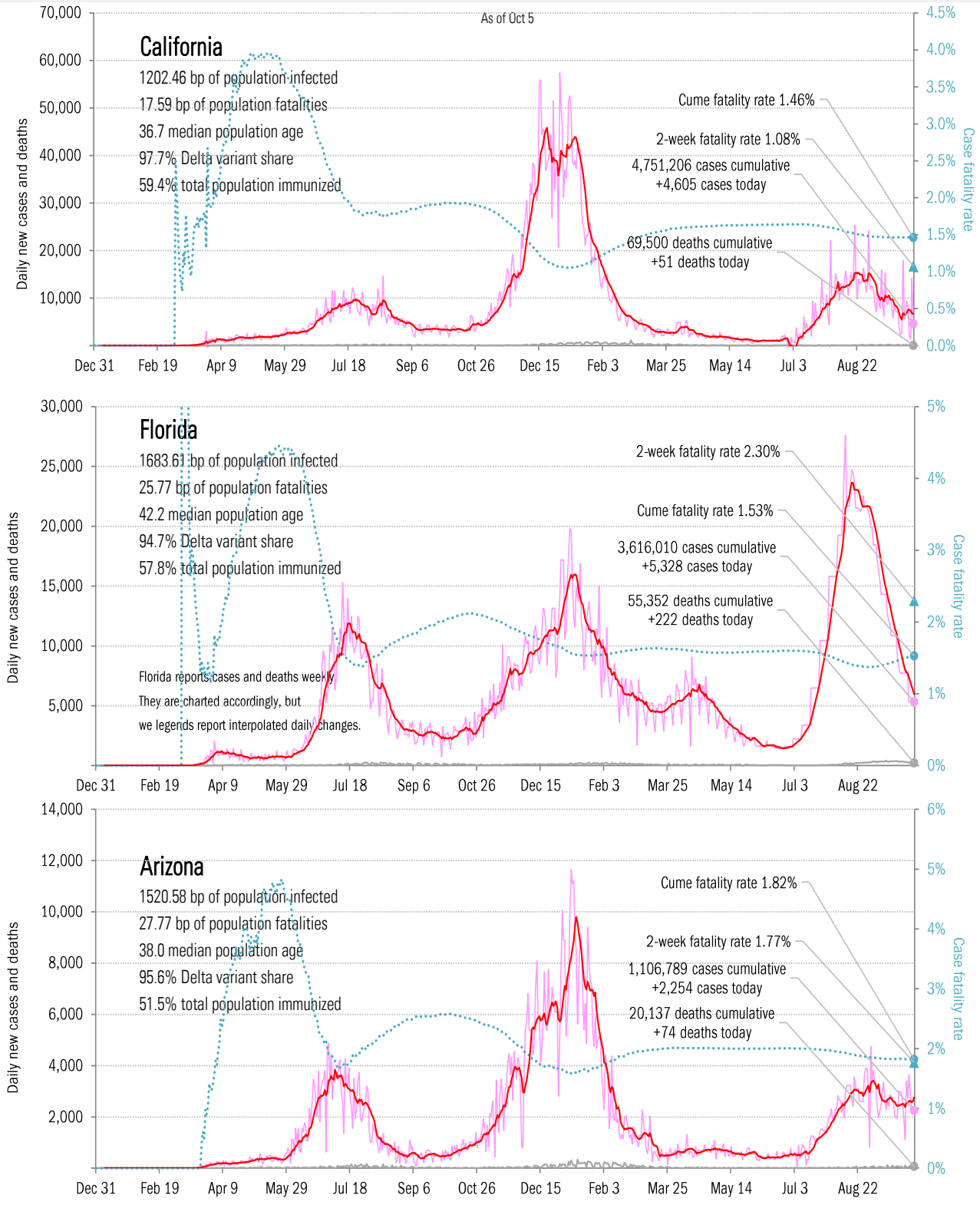
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

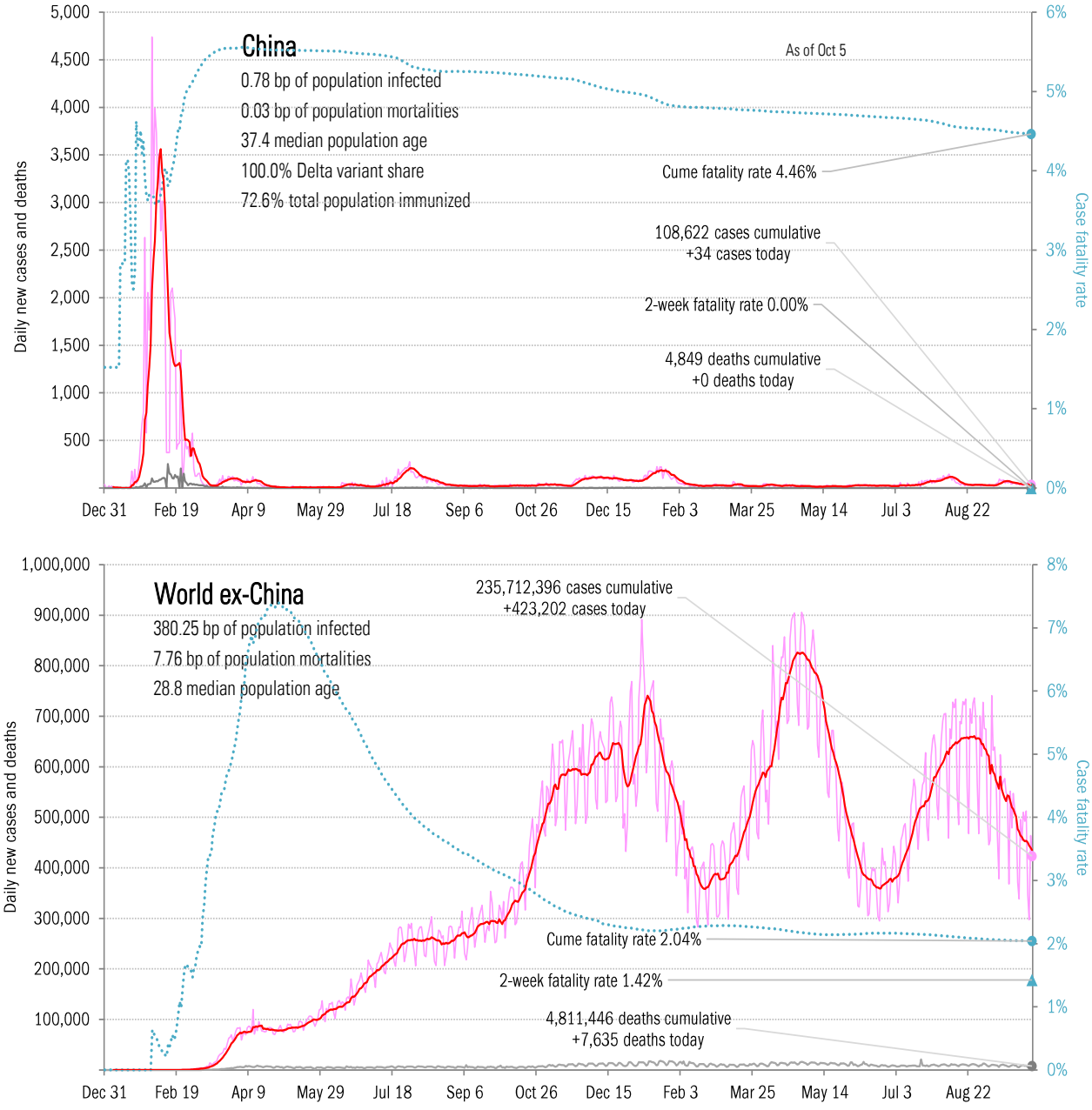
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

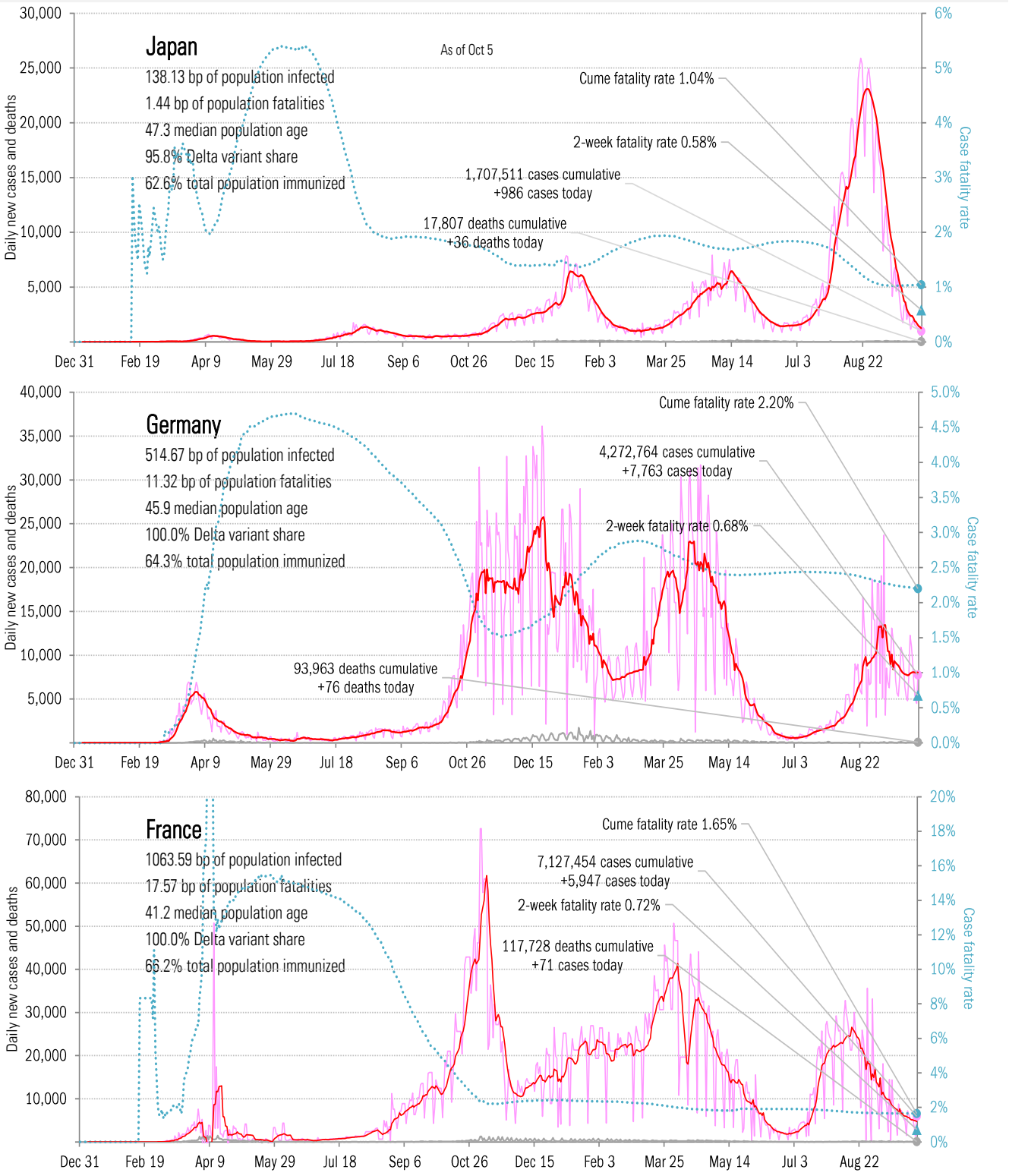
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

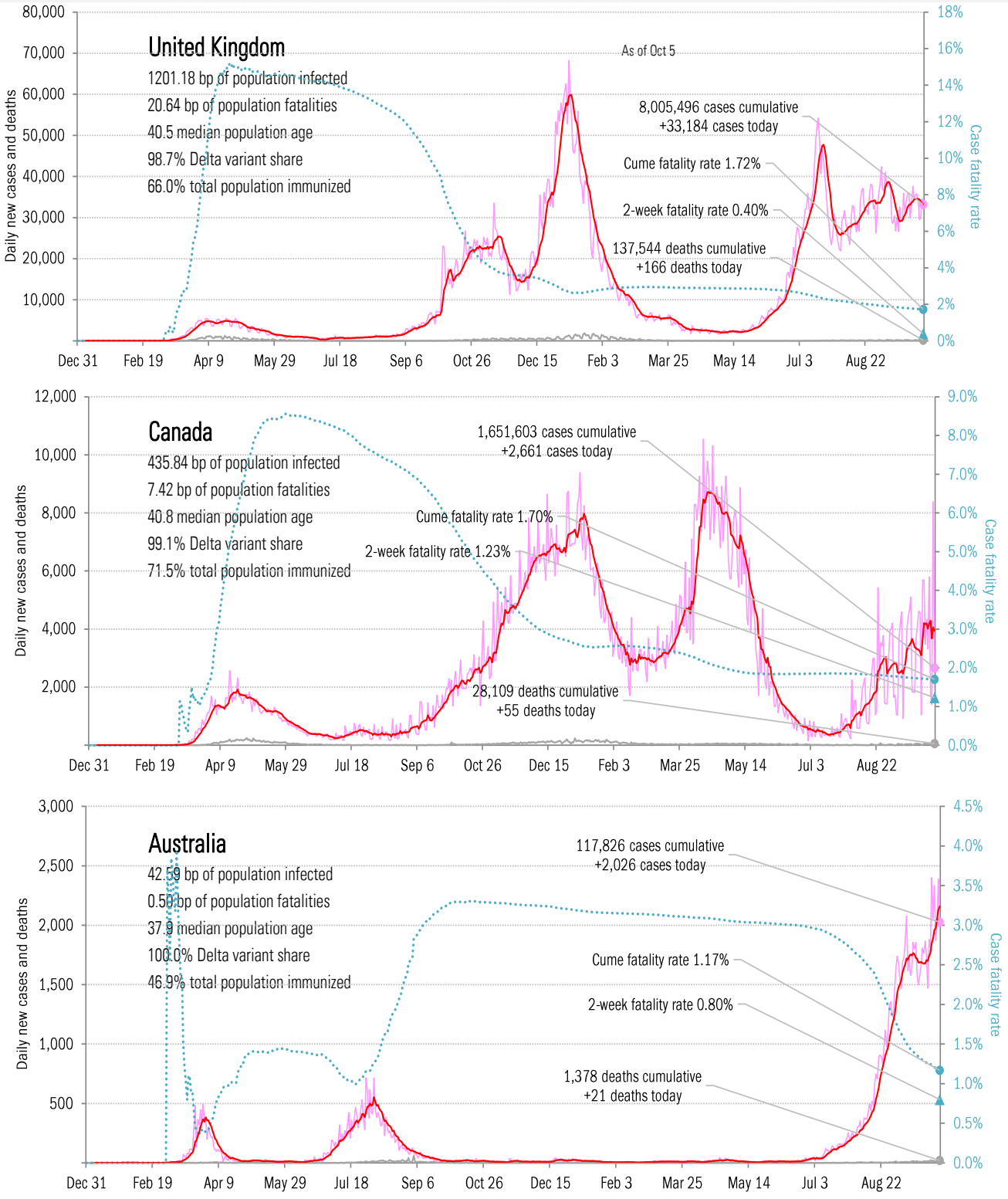
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

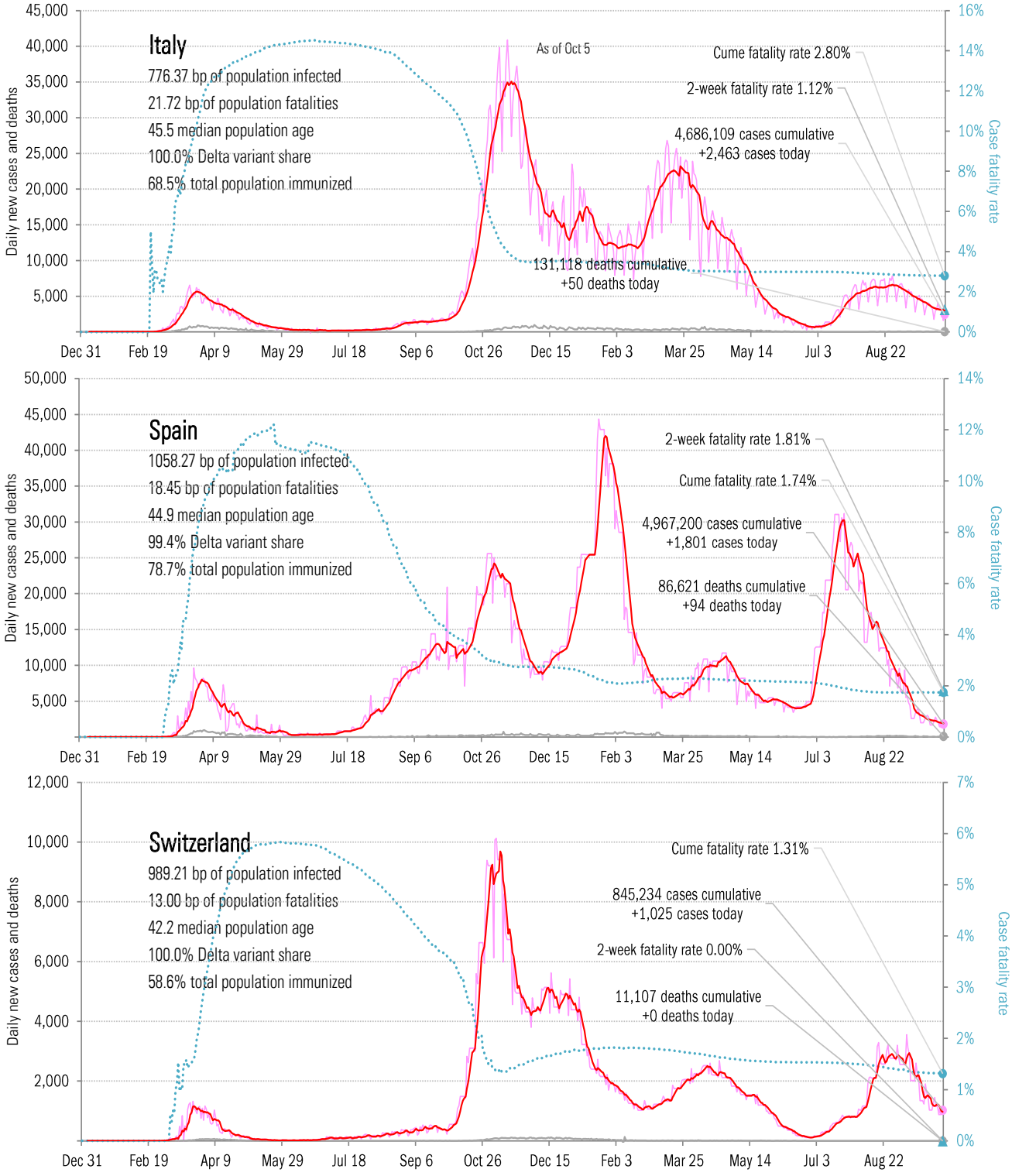
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

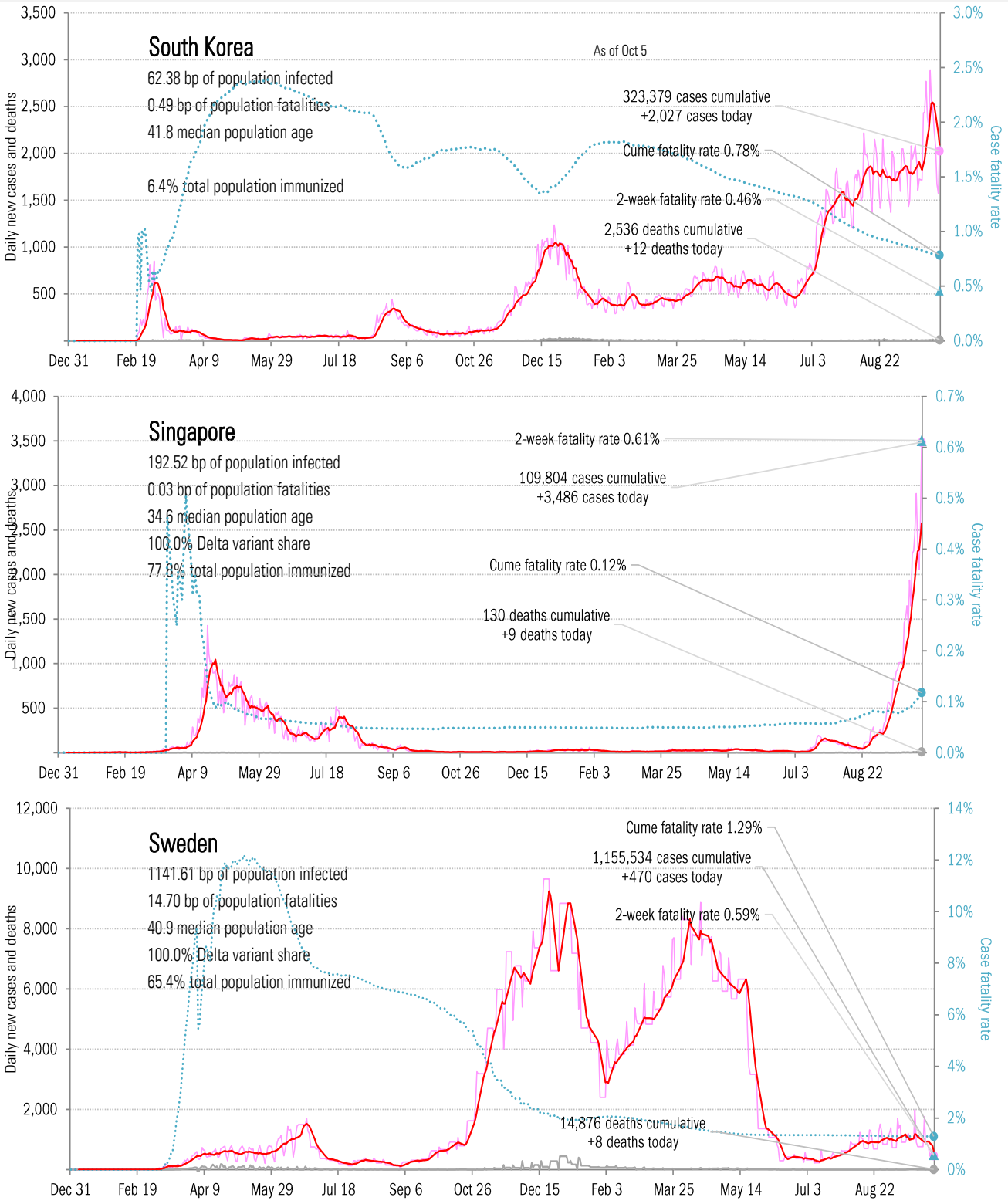
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

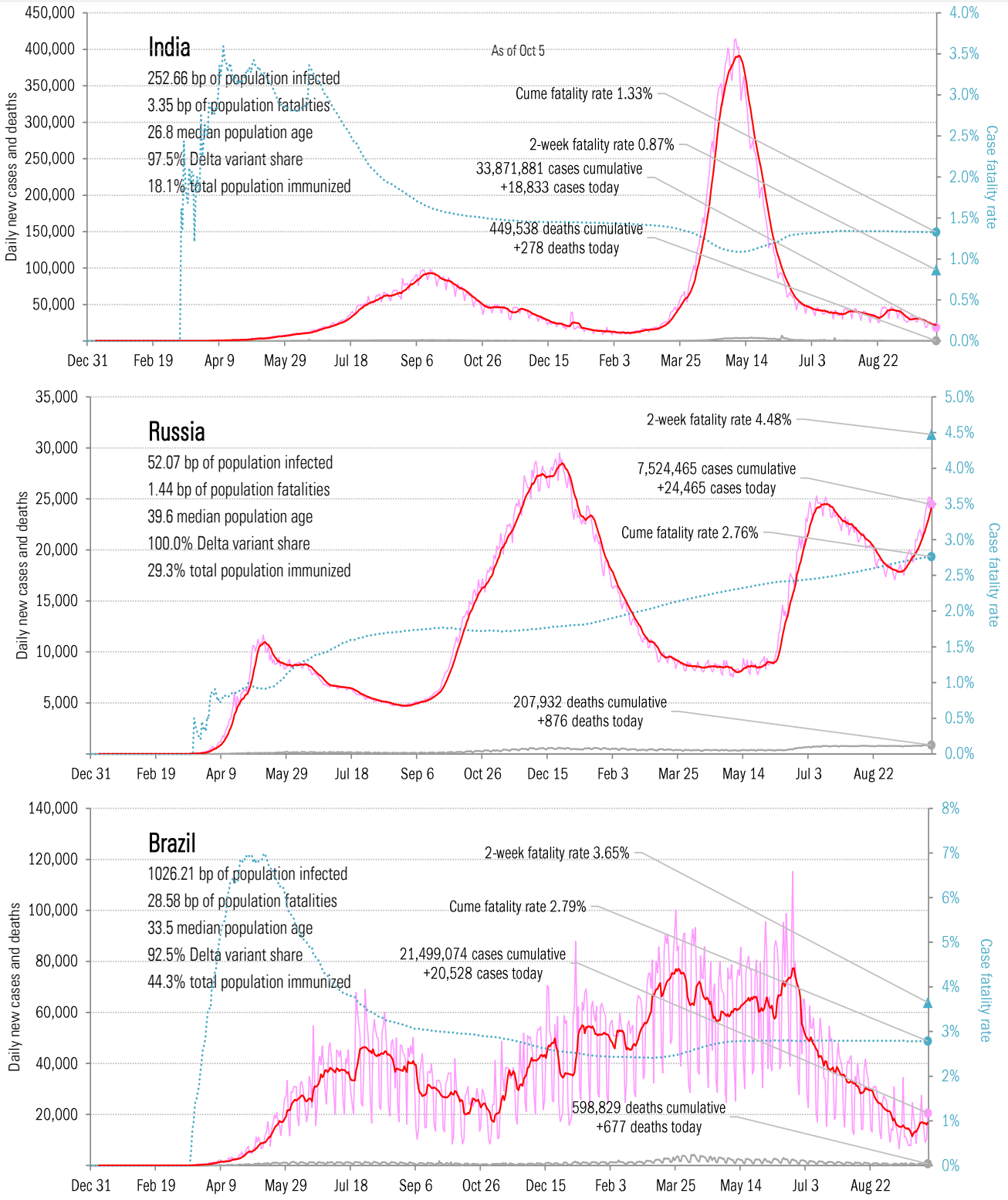
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

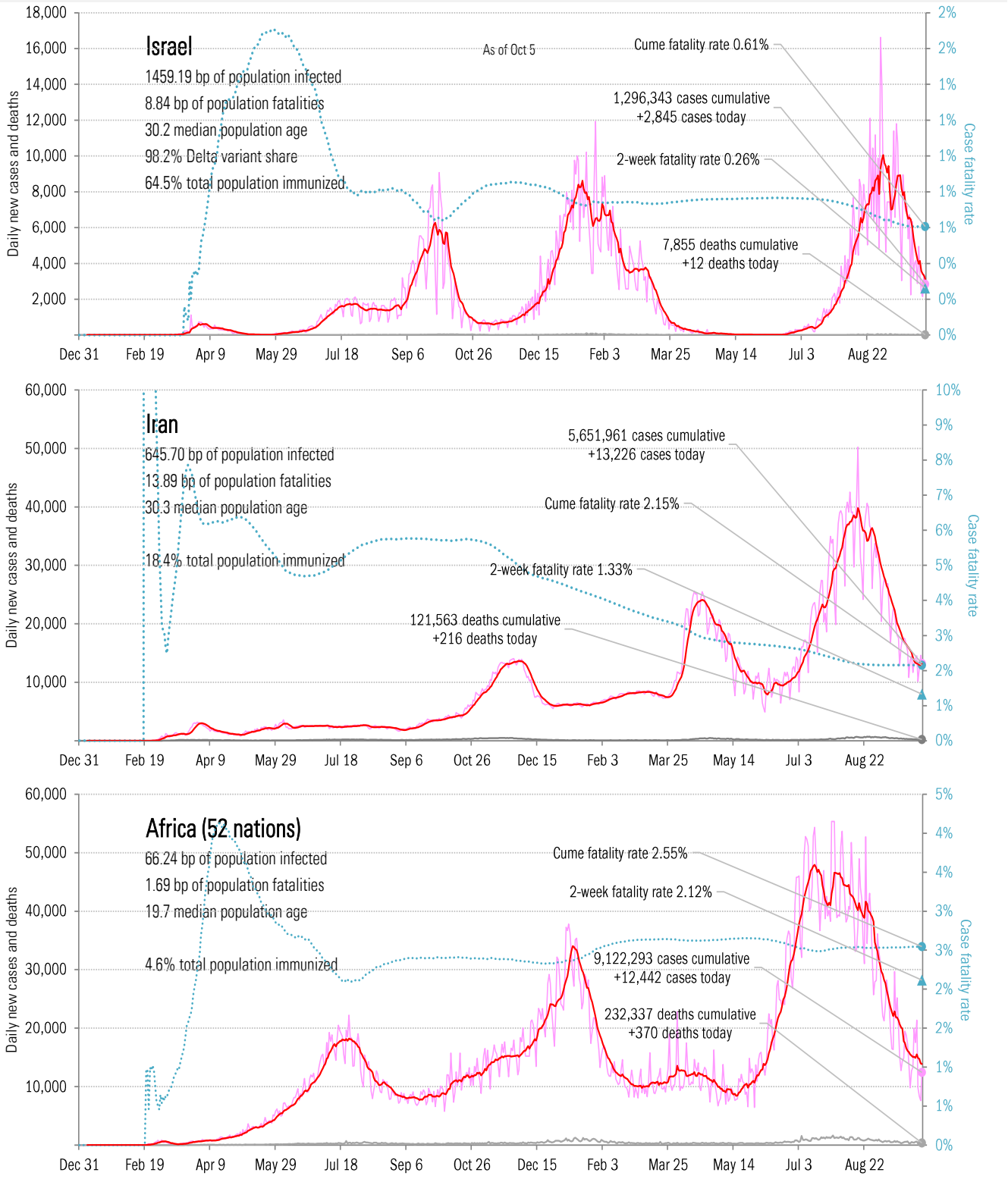
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

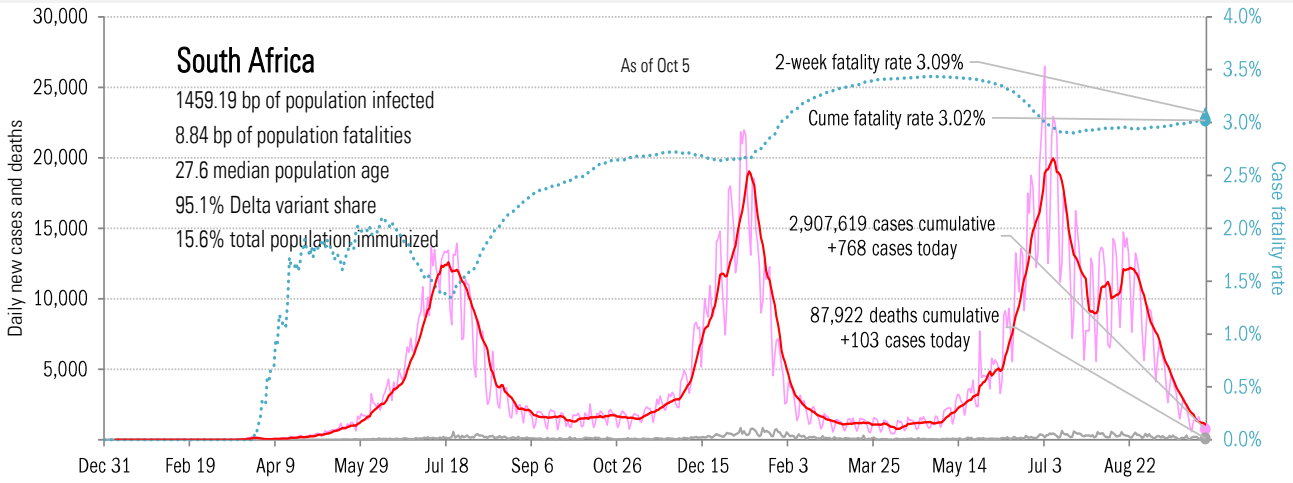
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations