Trend Macrolytics, LLC
Donald Luskin, Chief Investment Officer
Thomas Demas, Managing Director
Michael Warren, Energy Strategist

Data Insights: Covid-2019 Monitor

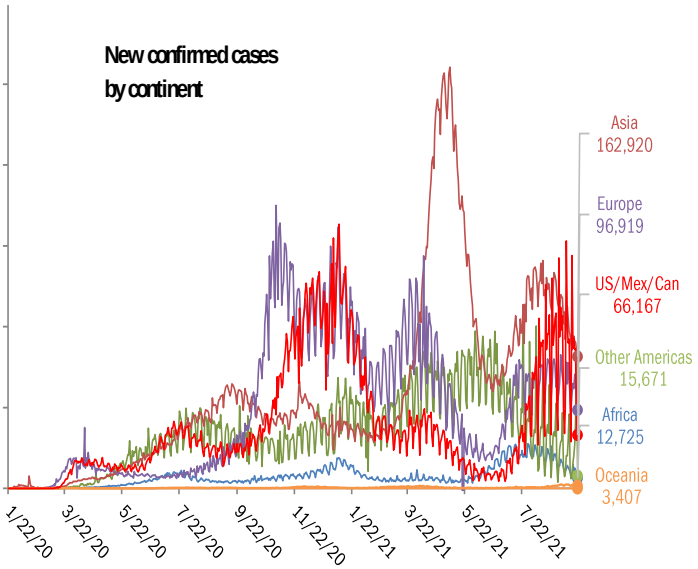
Monday, September 20, 2021

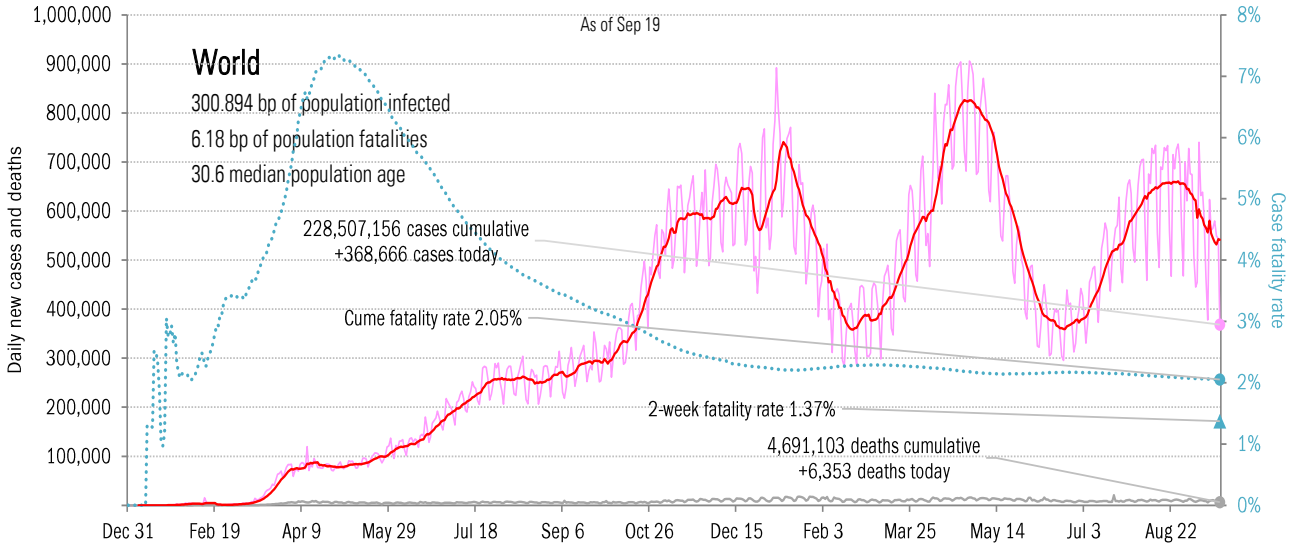
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	+47,651	Mexico	+965
India	+30,256	Russia	+780
United Kingdom	+29,298	United States	+644
Turkey	+26,398	Iran	+391
Russia	+19,825	Malaysia	+376
Philippines	+19,199	India	+295
Mexico	+16,694	Brazil	+244
Iran	+15,975	Vietnam	+233
Malaysia	+14,954	Turkey	+213
Thailand	+13,576	Philippines	+205
	+233,826		+4,346
World	+368,666	World	+6,353
Top ten	63%	Top ten	68%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
Donald Luskin: 312 273 6766 don@trendmacro.com
Thomas Demas: 704 552 3625 tdemas@trendmacro.com

Copyright 2021 Trend Macrolytics LLC. All rights reserved. This document is not to be forwarded to individuals or organizations not authorized by Trend Macrolytics LLC to receive it. For information purposes only; not to be deemed to be recommendations for buying or selling specific securities or to constitute personalized investment advice. Derived from sources deemed to be reliable, but no warranty is made as to accuracy.

The US scorecard

Cases: 7-day average and daily Deaths: Daily

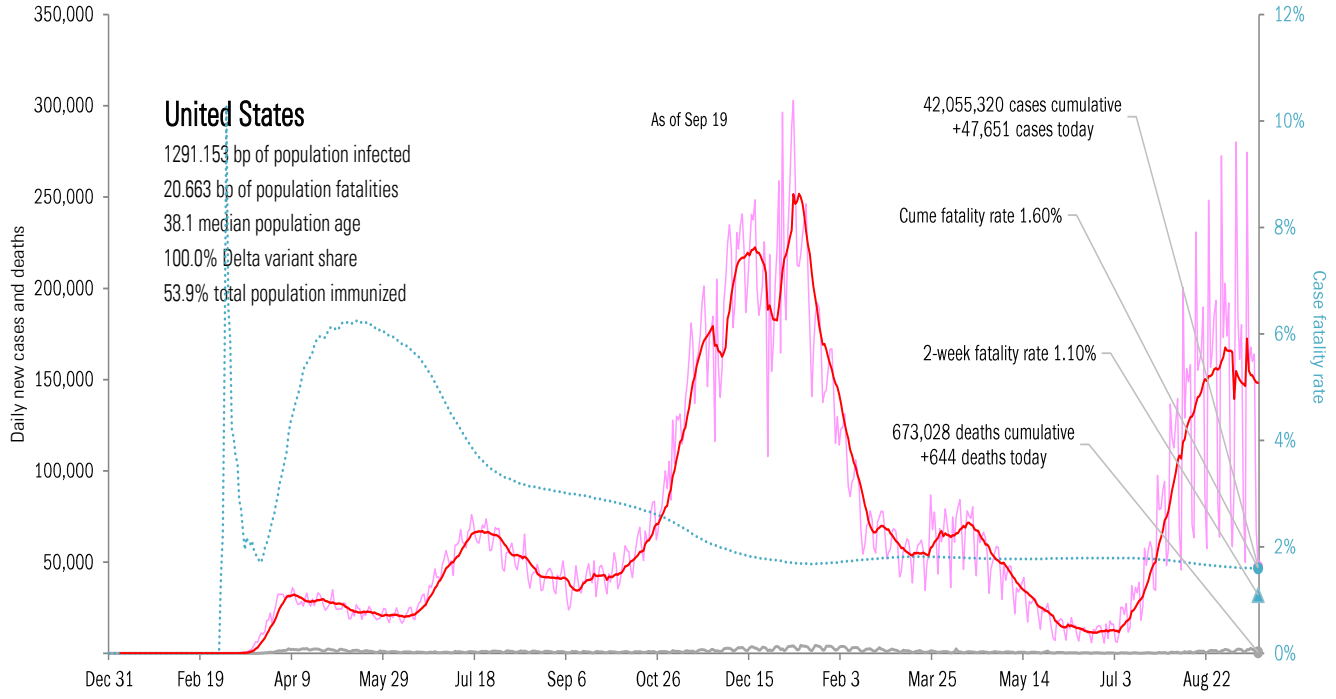
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	+10,857	FL	+353	GA	+136	CA	4,636,268	CA	67,966	TX	347,644	RI	87%	AL	96%
NY	+7,218	TX	+99	TX	+106	TX	3,934,628	TX	61,960	FL	300,521	MD	86%	GA	94%
CA	+7,014	CA	+86	OH	+73	FL	3,496,586	NY	54,904	CA	292,237	GA	85%	TX	93%
OH	+4,428	NY	+39	PA	+69	NY	2,373,659	FL	50,505	NY	152,561	MA	84%	ID	92%
PA	+4,047	AZ	+26	WI	+56	IL	1,590,342	PA	28,858	GA	147,601	PA	84%	AR	91%
AZ	+2,457	PA	+16	MN	+38	GA	1,525,114	NJ	27,190	OH	106,295	SC	83%	KY	90%
AL	+2,090	HI	+12	WV	+35	PA	1,379,478	IL	26,979	KY	103,485	MO	83%	OK	89%
NJ	+1,909	NJ	+8	NV	+30	OH	1,347,205	GA	24,577	PA	103,242	CT	83%	FL	89%
WV	+1,604	ME	+2	IA	+23	NC	1,330,492	MI	21,997	IL	97,456	MN	82%	NC	87%
TX	+1,545	PR	+2	MD	+22	TN	1,178,168	OH	21,471	MI	81,166	WV	81%	RI	87%
	+43,169		+643		+588		22,791,940		386,407		1,732,208				
All states	+47,651		+644		-100	All states	42,055,320		673,028		3,071,945	All states	70%		67%
Top ten	91%		100%		-588%	Top ten	54%		57%		56%	Median	76%		79%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-6,402	TX	-204	KY	-285	AK	+20 bp
IA	-5,161	AL	-160	AL	-139	AL	+20 bp
OH	-2,288	AZ	-82	LA	-59	AR	+20 bp
CA	-1,577	ID	-23	NY	-47	CA	+20 bp
AR	-1,574	AR	-22	MI	-34	IN	+20 bp

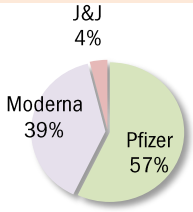


Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	396,445,397				+0.700 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	216,932,605	65%	185,952,544	56%	+0.356 million
Age 12 to 17	13,374,379	56%	10,698,177	45%	+0.049 million
Age 18 to 64	149,879,358	74%	127,485,168	63%	+0.273 million
Age 65 and over	52,623,442	96%	46,907,411	86%	+0.032 million

Immunity	Full	Partial
US	53.9%	63.0%
UK	65.1%	71.2%
France	63.7%	73.6%
Spain	76.6%	80.0%
Germany	62.6%	66.6%
Italy	65.6%	73.3%
Australia	37.4%	58.1%
Israel	63.6%	69.0%
Canada	69.3%	75.3%
Japan	53.3%	65.6%
Africa	3.8%	6.0%
India	14.5%	43.2%
Brazil	37.6%	68.4%
China	70.0%	75.8%



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

Best
Middle
Worst

Every American >18 immune in
129 days
by Jan 26, 2022

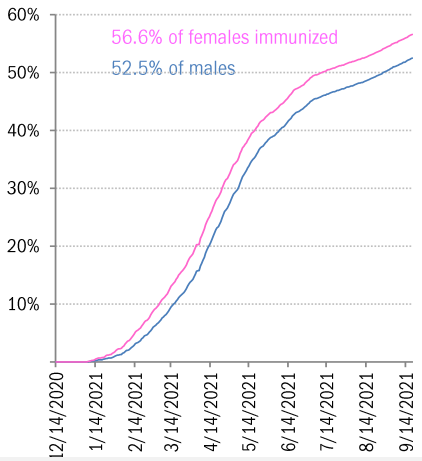
67.5% of population >18 immunized
14.3% previously tested positive
81.9% vs 60% adult herd immunity

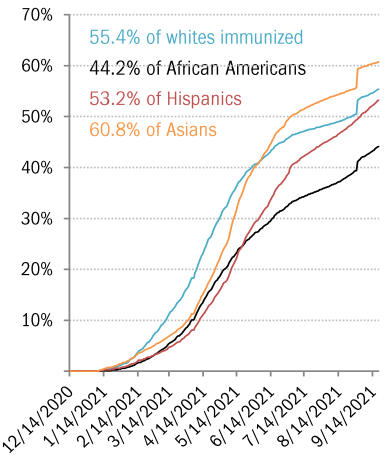
As of Sep 19

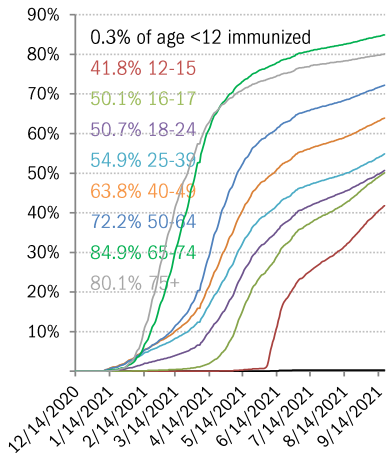
Global data differs from sources, timing

AK					WI				ME
56.5%					60.3%				73.2%
49.1%					55.6%				67.5%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
70.3%	46.1%	54.0%	50.3%	63.0%	67.7%	56.4%		70.0%	77.2%	68.7%
62.2%	40.8%	47.7%	43.3%	57.5%	52.7%	51.7%		62.6%	68.9%	61.0%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
66.0%	59.9%	47.5%	58.2%	57.5%	51.6%	53.6%	71.3%	71.8%	76.7%	
59.9%	49.8%	40.6%	50.8%	53.2%	47.7%	49.6%	56.9%	63.5%	67.2%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
70.7%	58.1%	64.9%	58.7%	54.2%	59.6%	47.8%	67.6%	69.9%	75.2%	74.1%
57.9%	49.5%	58.6%	53.7%	47.0%	50.8%	40.1%	59.5%	63.3%	67.7%	67.0%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	58.6%	71.8%	59.1%	55.1%	51.8%	58.4%	54.3%	69.6%	65.5%	
	50.3%	62.1%	50.2%	44.6%	44.1%	48.7%	45.9%	59.2%	56.8%	
			OK	LA	MS	AL	GA		
			55.7%	51.1%	49.3%	51.9%	54.0%		
			46.5%	44.4%	42.1%	41.3%	44.1%		
HI			TX					FL	PR
76.2%			59.2%					66.0%	78.2%
57.0%			50.2%					55.8%	68.5%

The demographics of US vaccination



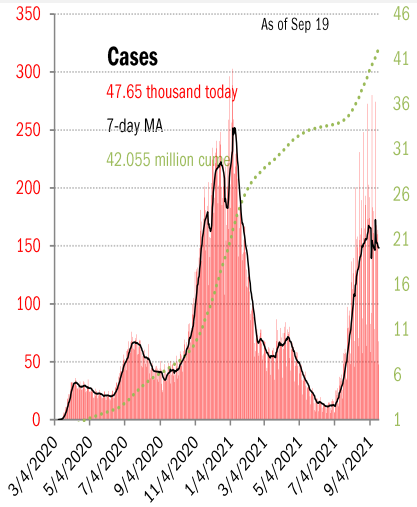


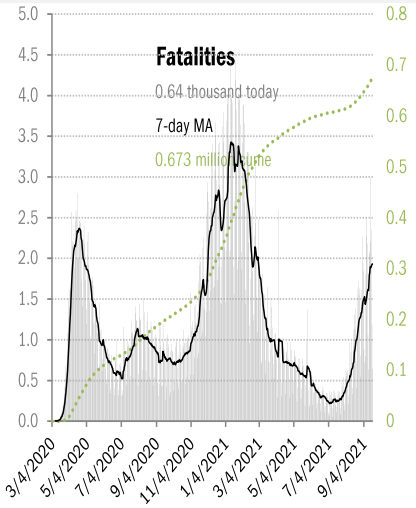


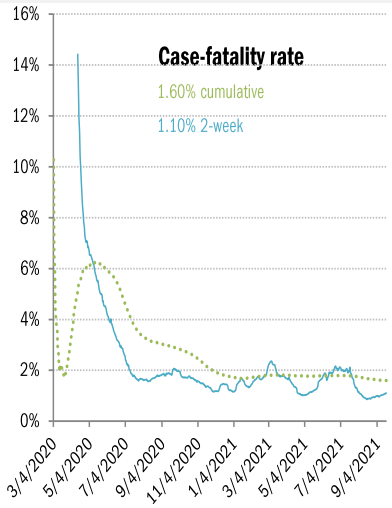
Source: CDC, CDC, Our World in Data, TrendMacro calculations

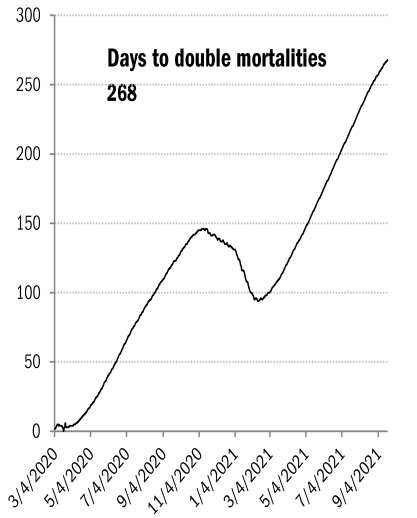
US deep-dive

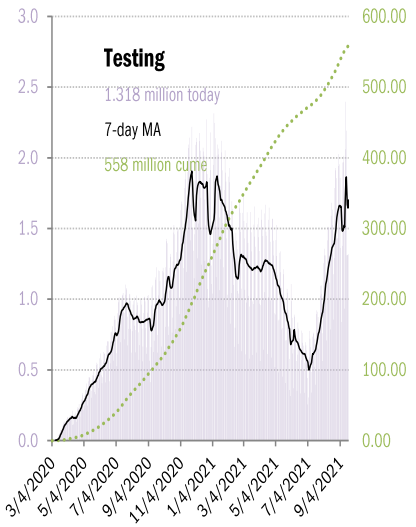
National and state-by-state data do not line up because of different sources

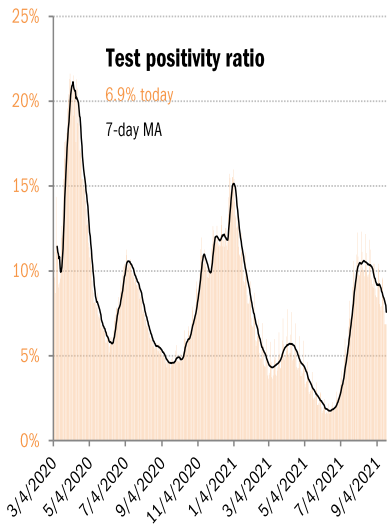


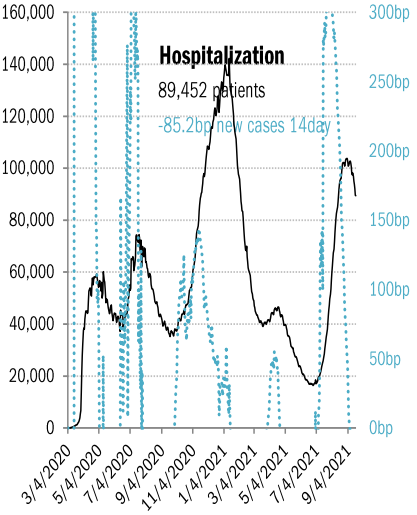


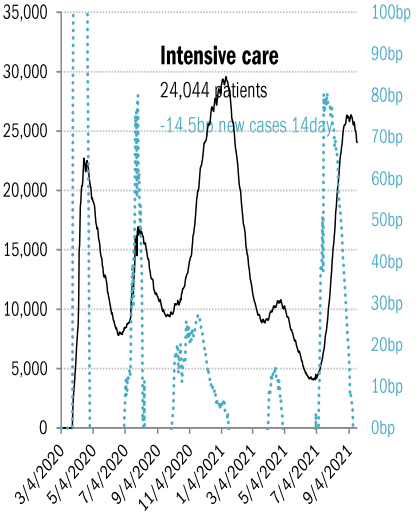


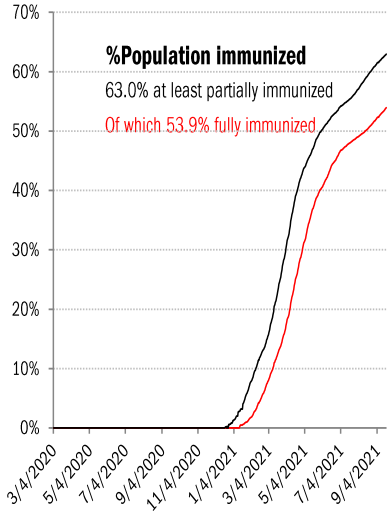












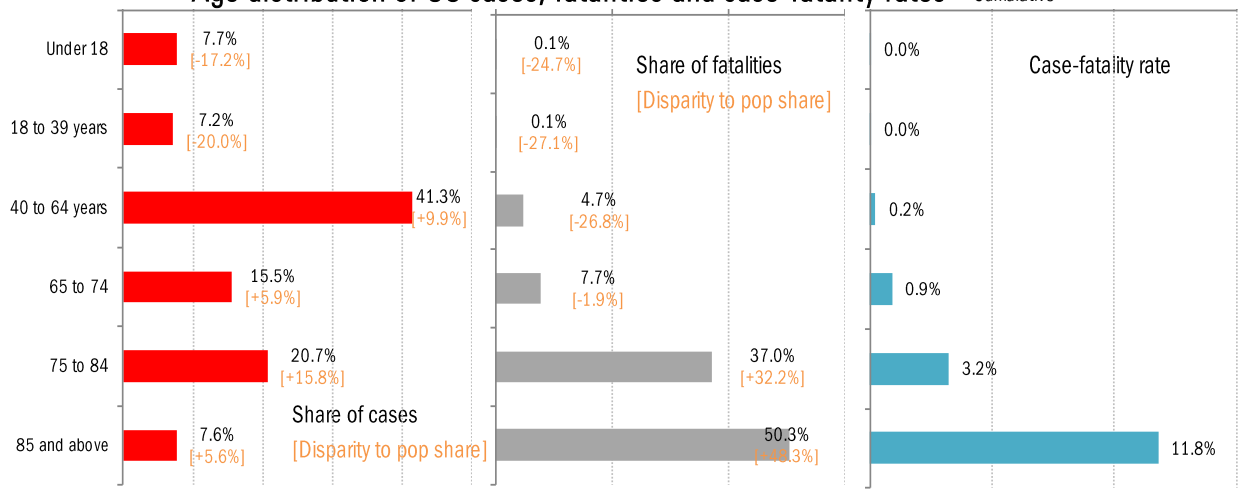
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

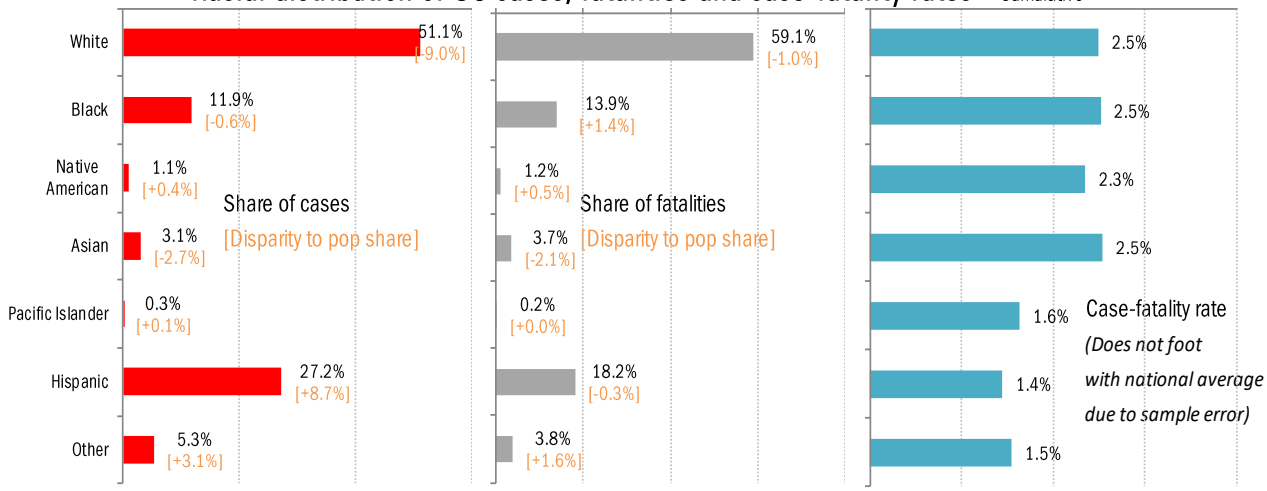
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



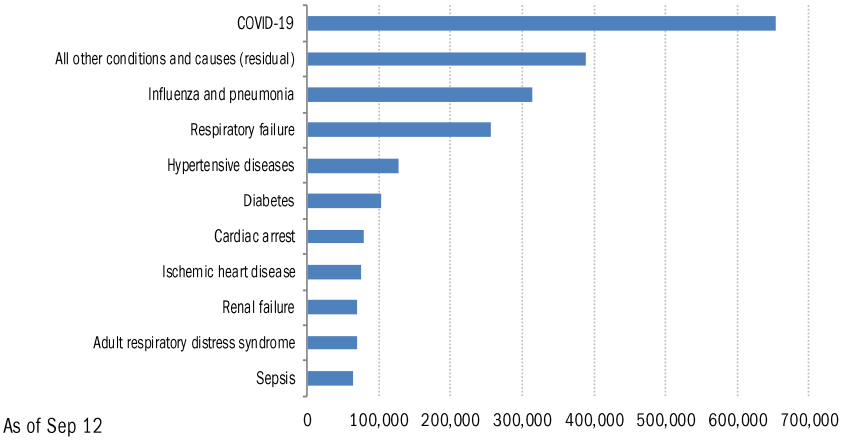
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Sep 12

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.

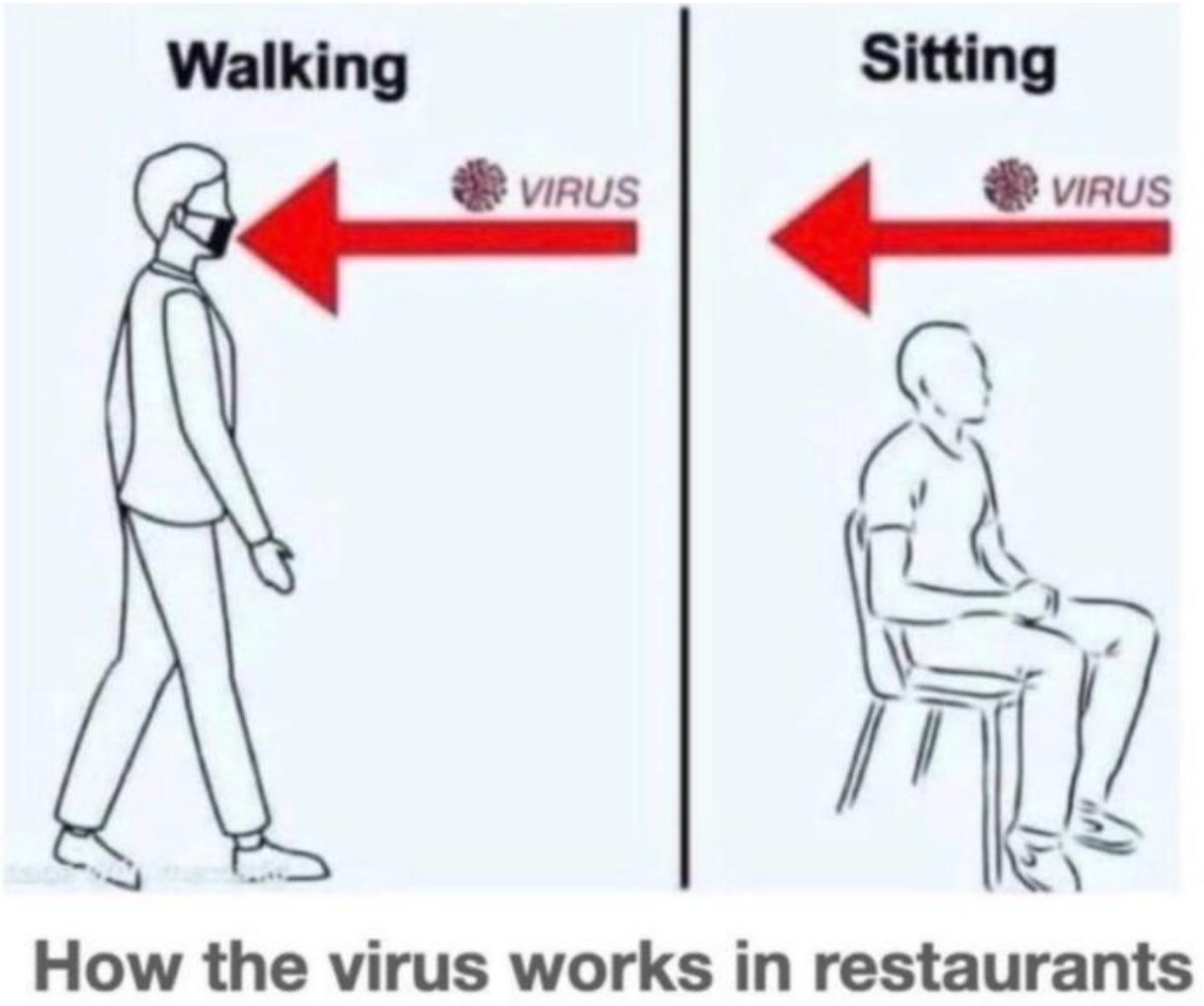
Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

Rich Countries Worry About Booster Shots. They Should Be Worried About Africa.
Matshidiso Moeti
New York Times
September 19, 2021

Truth About Vaccines & COVID w/Inventor Of mRNA Vaccine Technology, Robert Malone
The Jimmy Dore Show
September 14, 2021

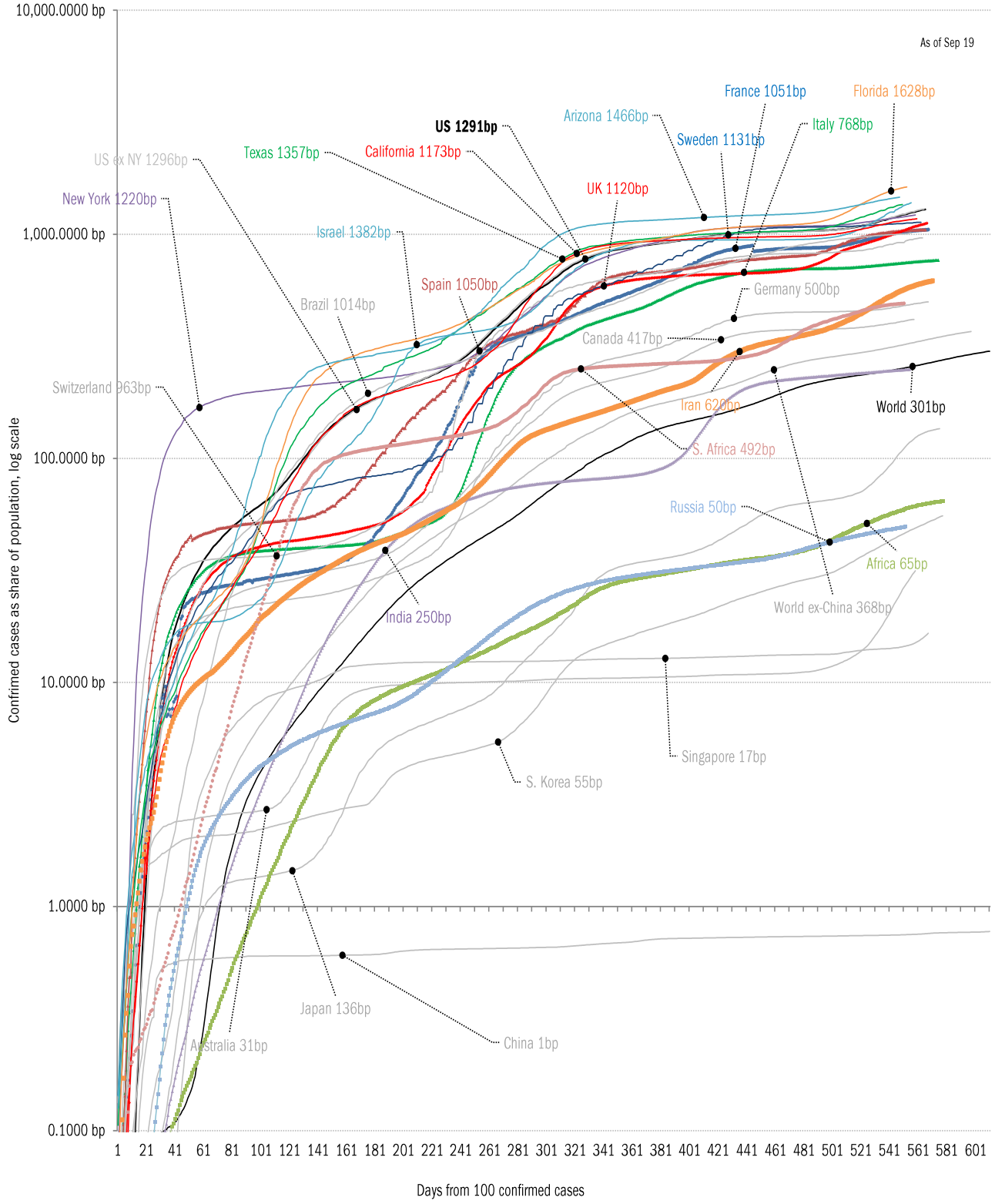
Meme of the day



Source: Our beloved clients, Power Line blog "The Week in Pictures" and CTUP

The coronavirus case accelerometer… tracking the world's infection curves

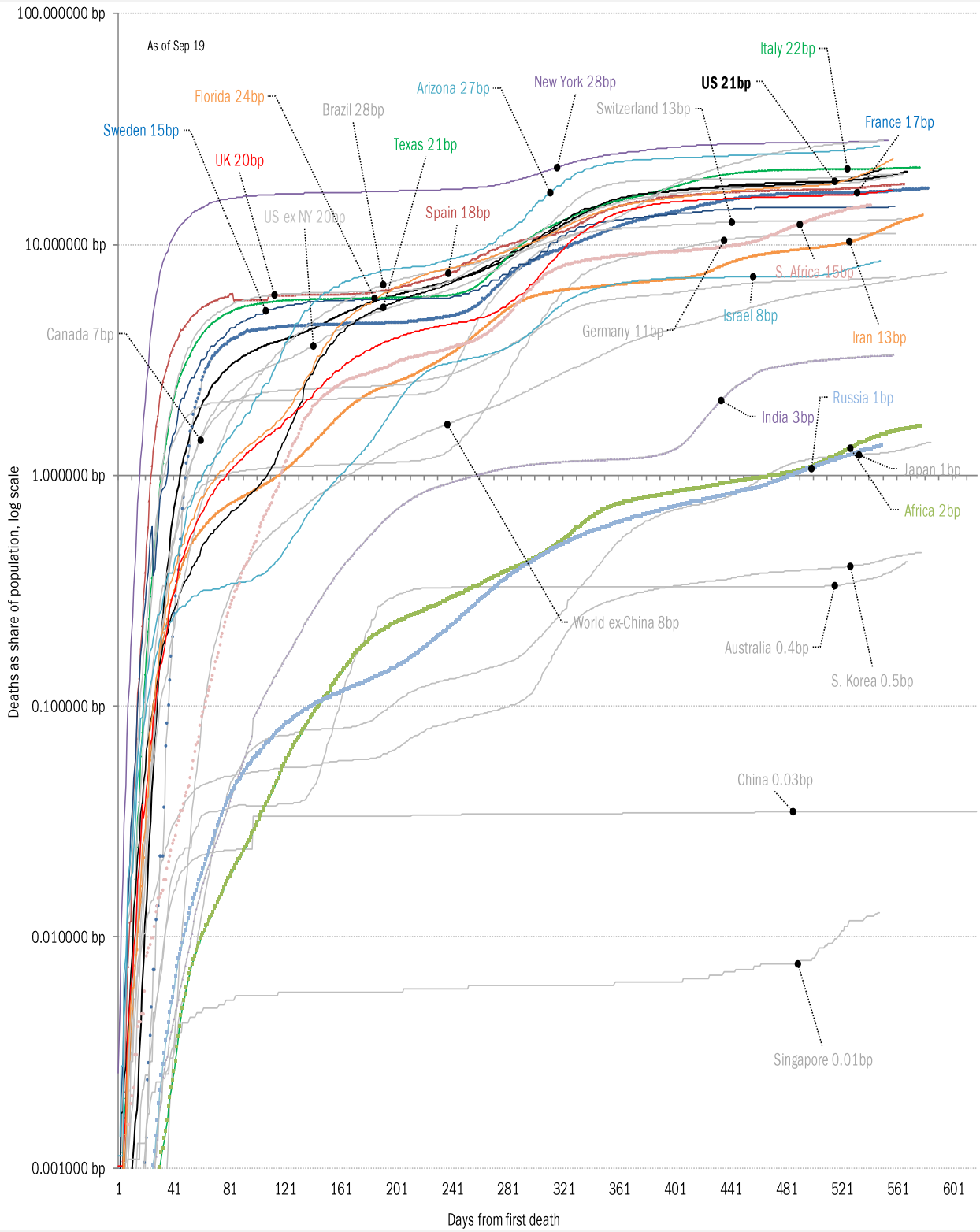
Share of infected population from first day with 100 confirmed cases, log scale



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

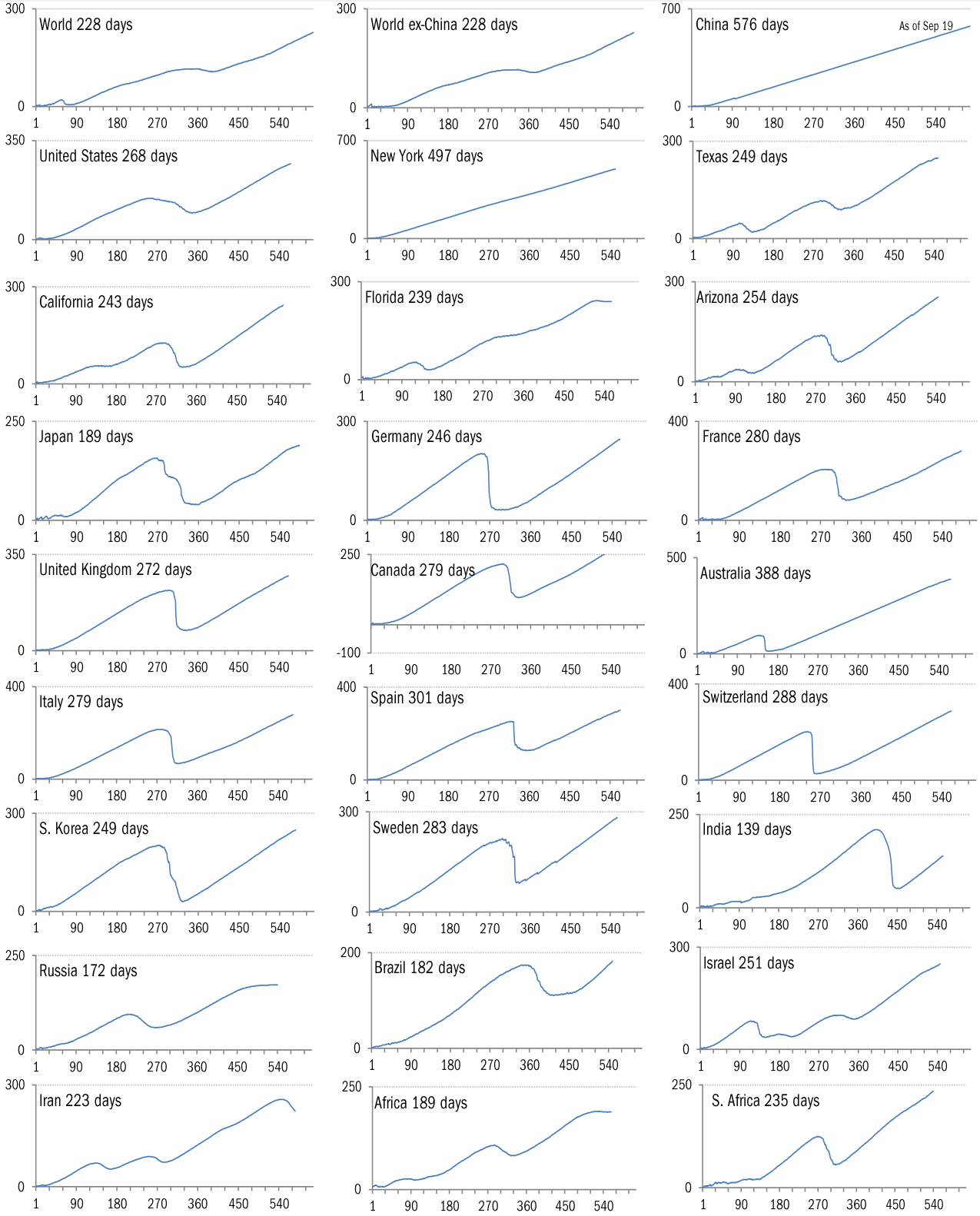


Source: Johns Hopkins, TrendMacro calculations

"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

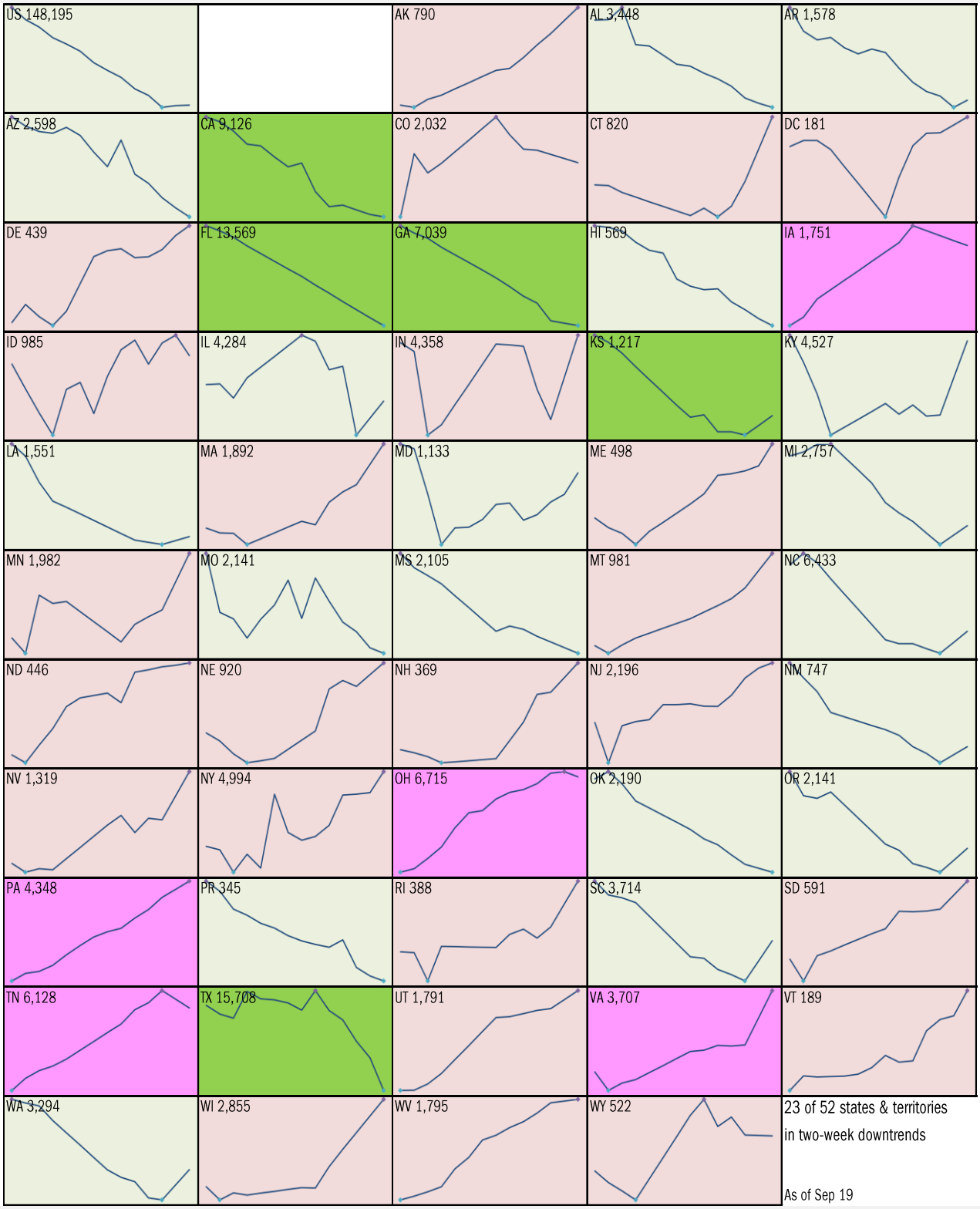


Source: Johns Hopkins, TrendMacro calculations

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

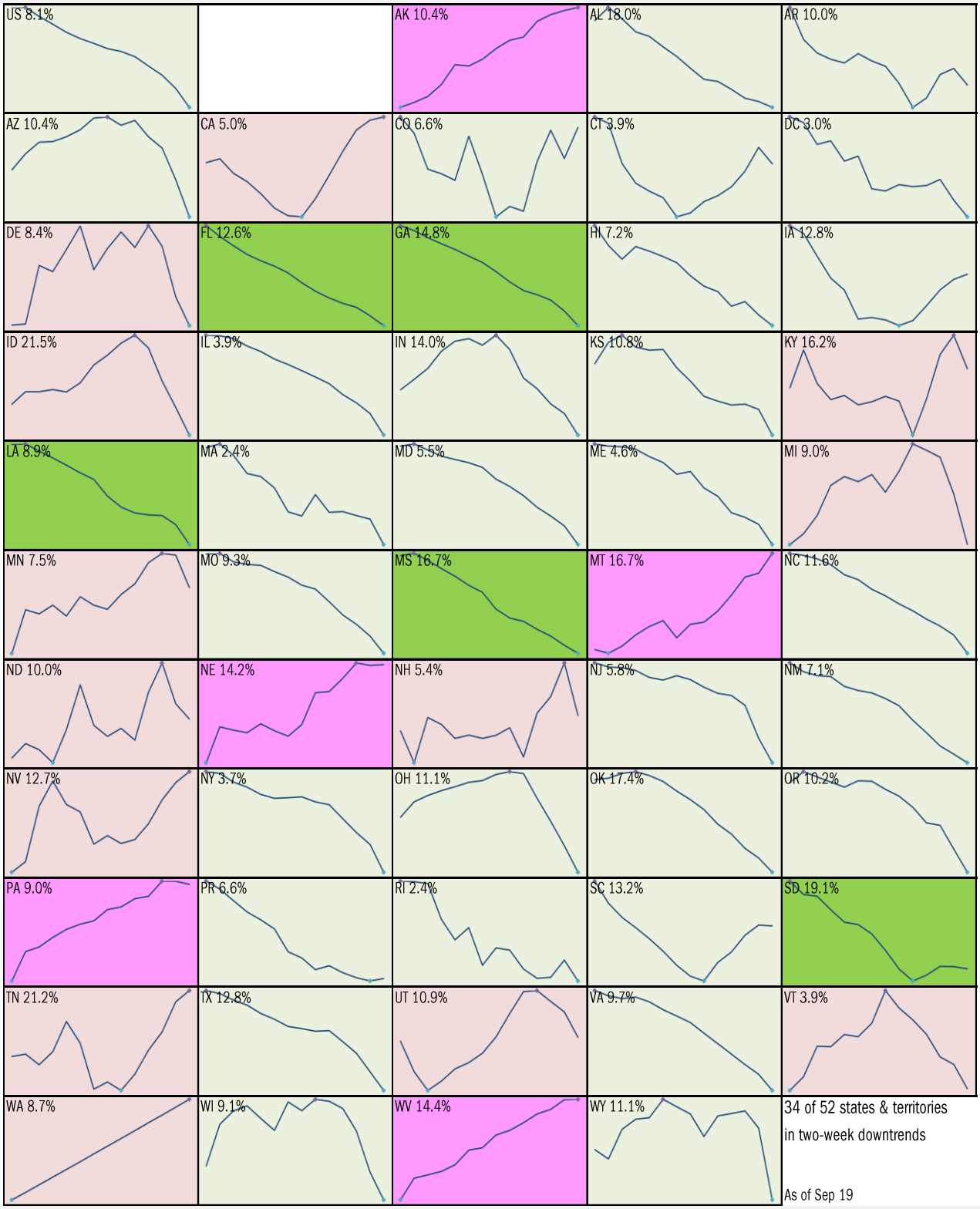


Source: Johns Hopkins, TrendMacro calculations

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

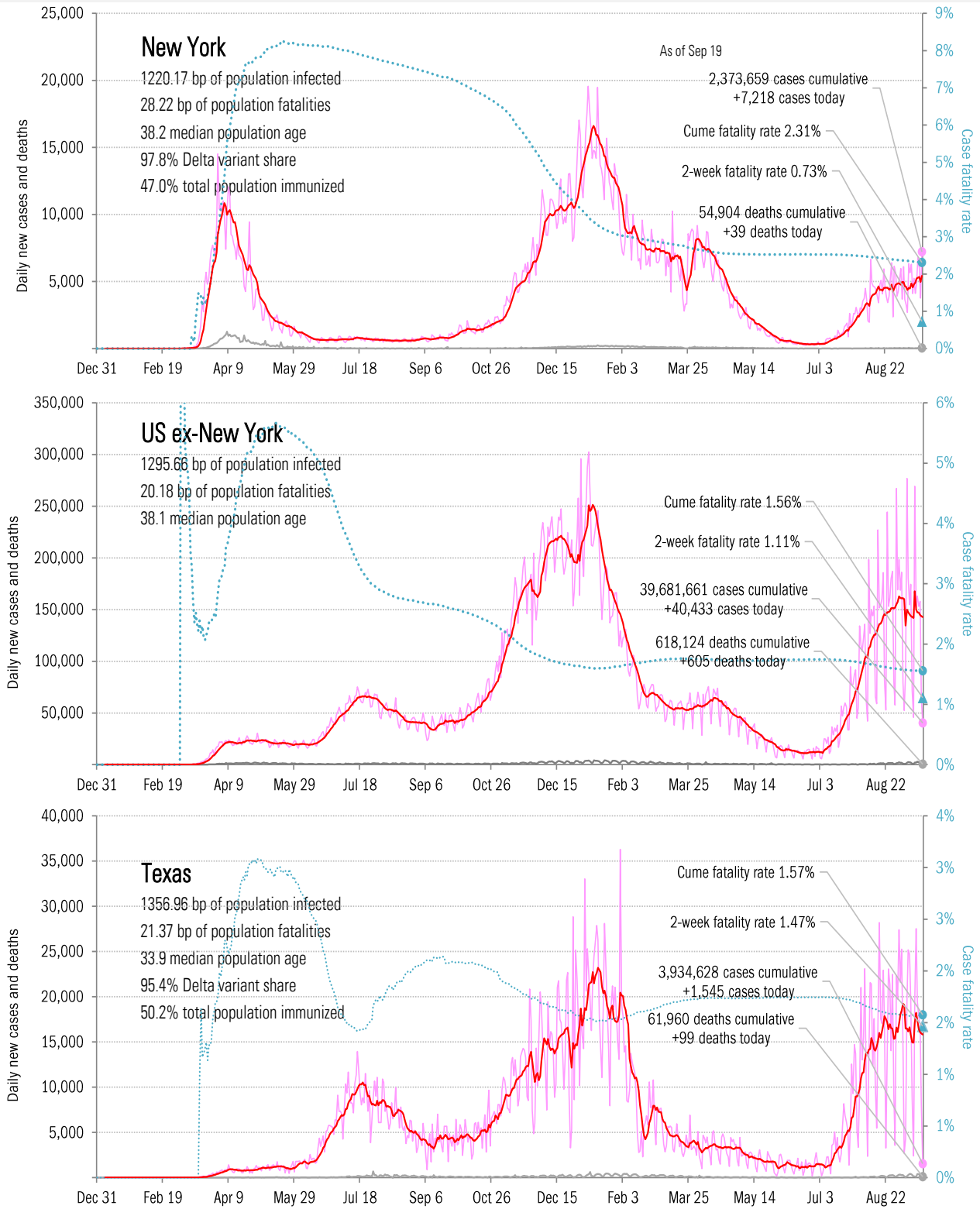
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

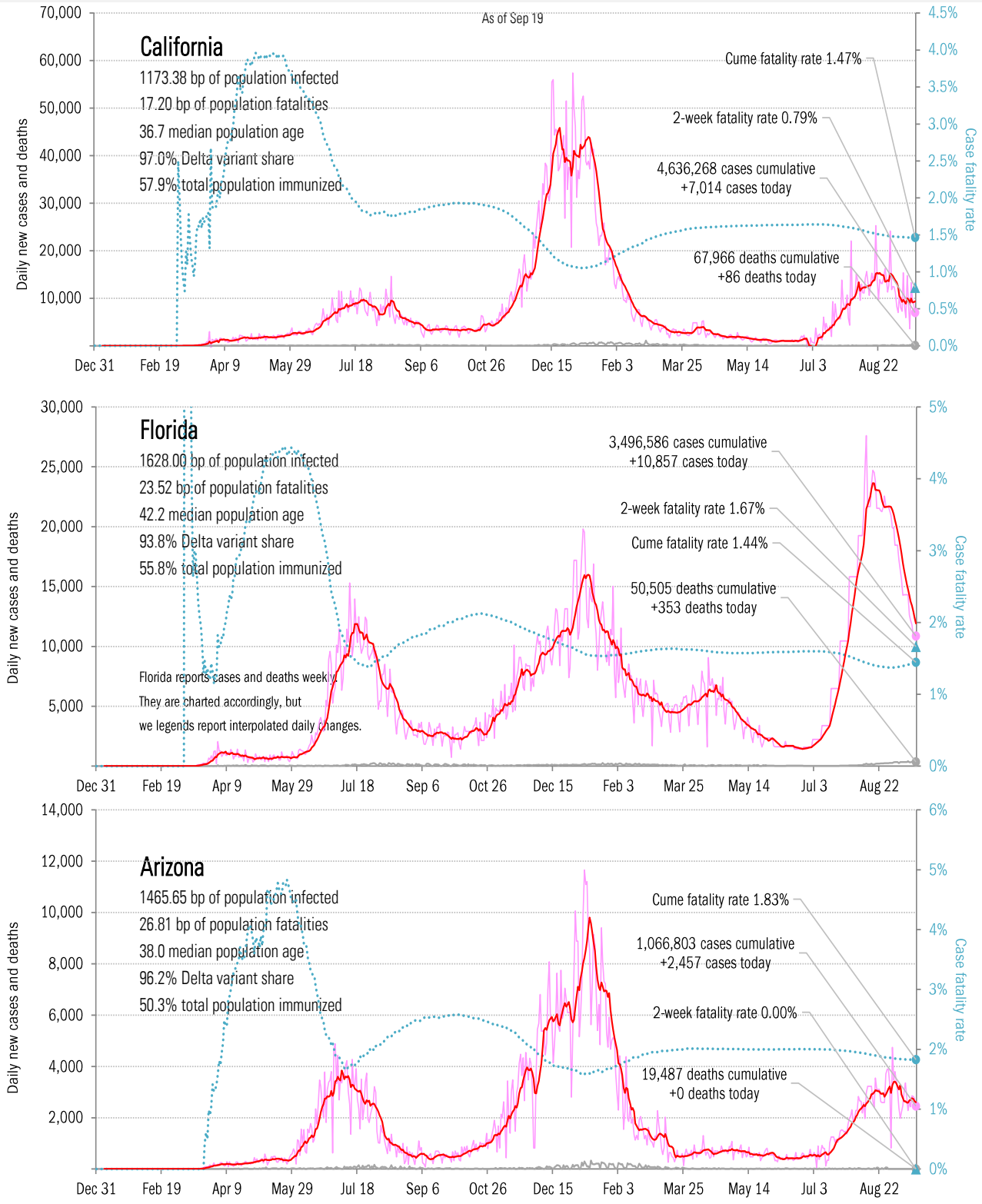
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

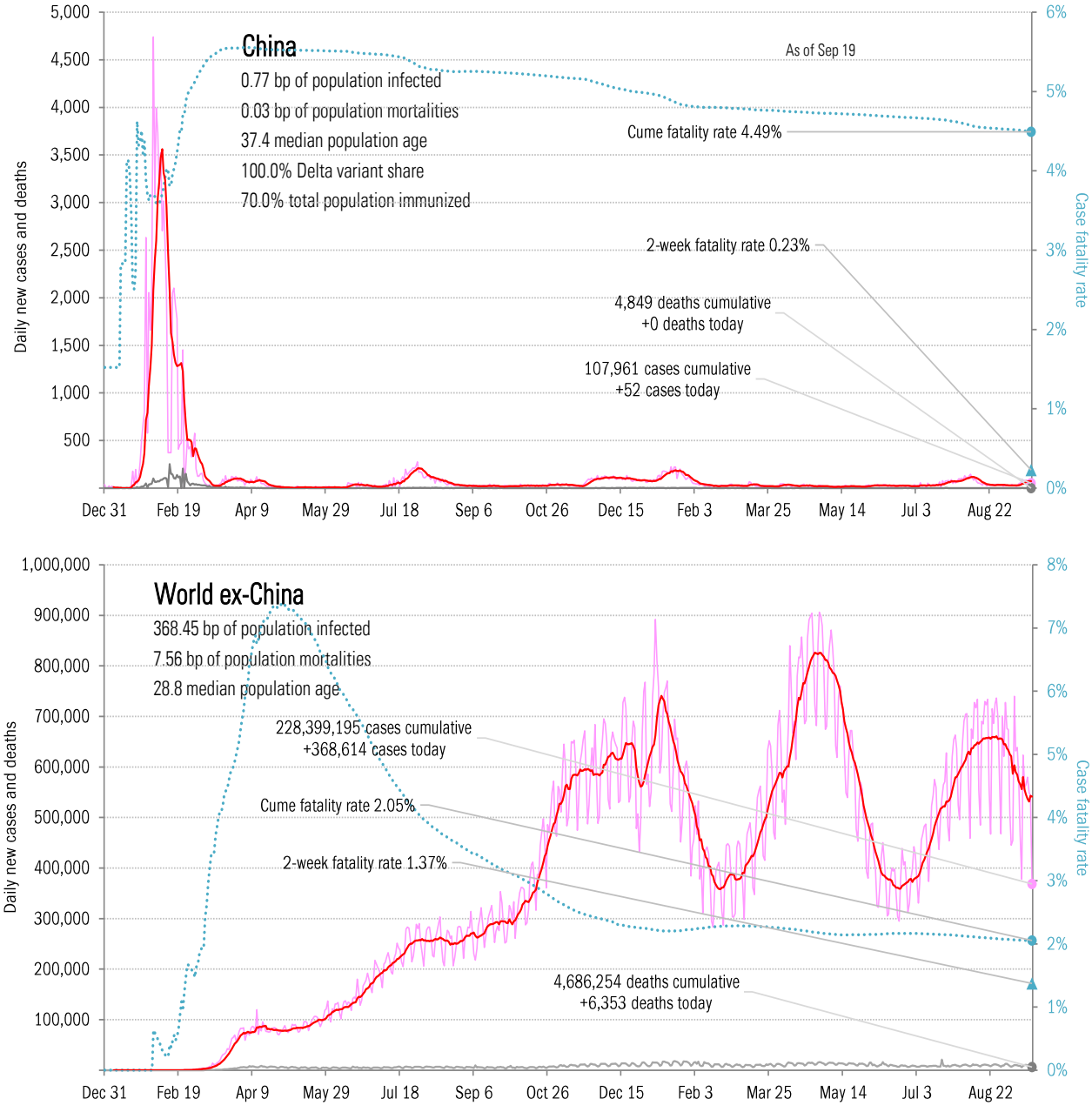
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

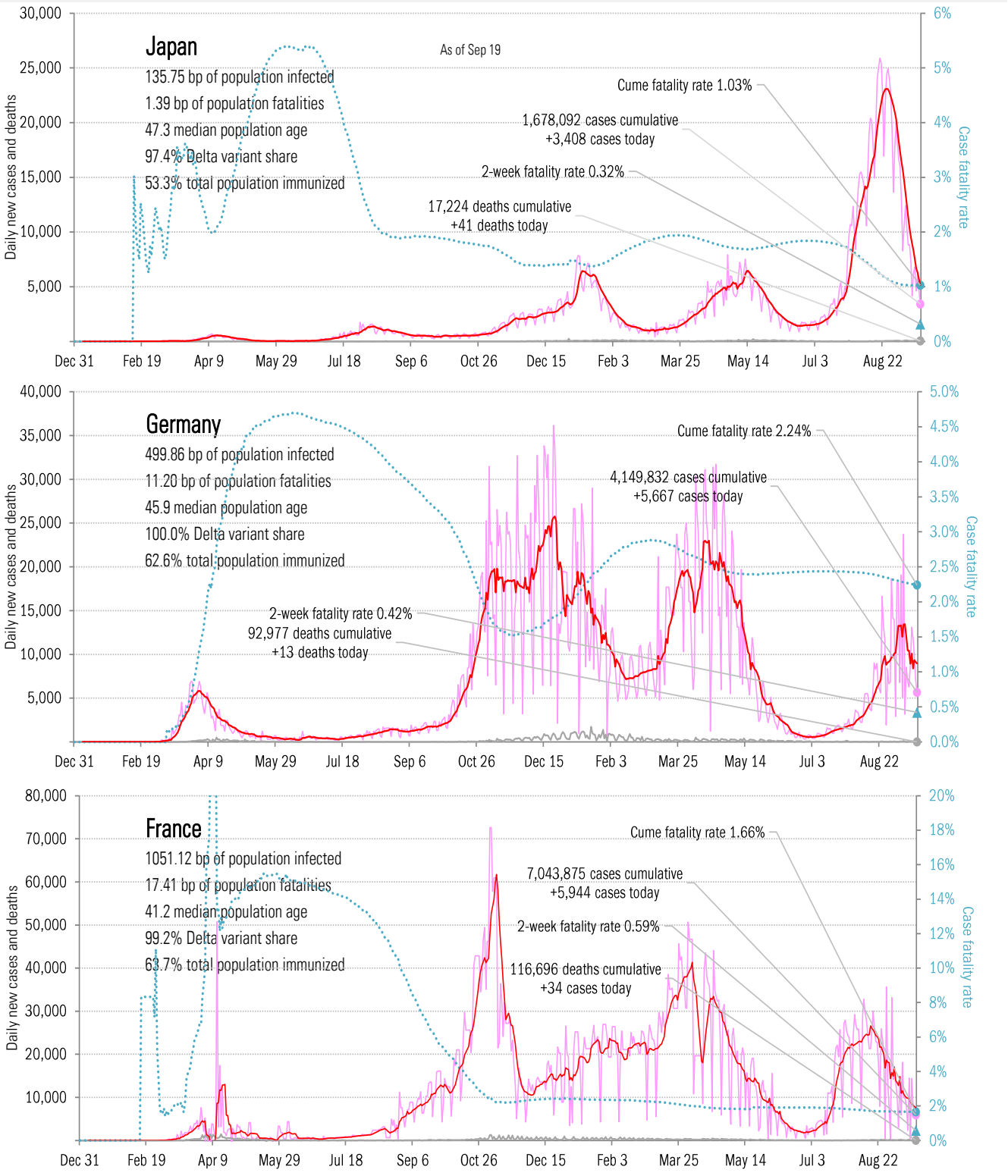
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

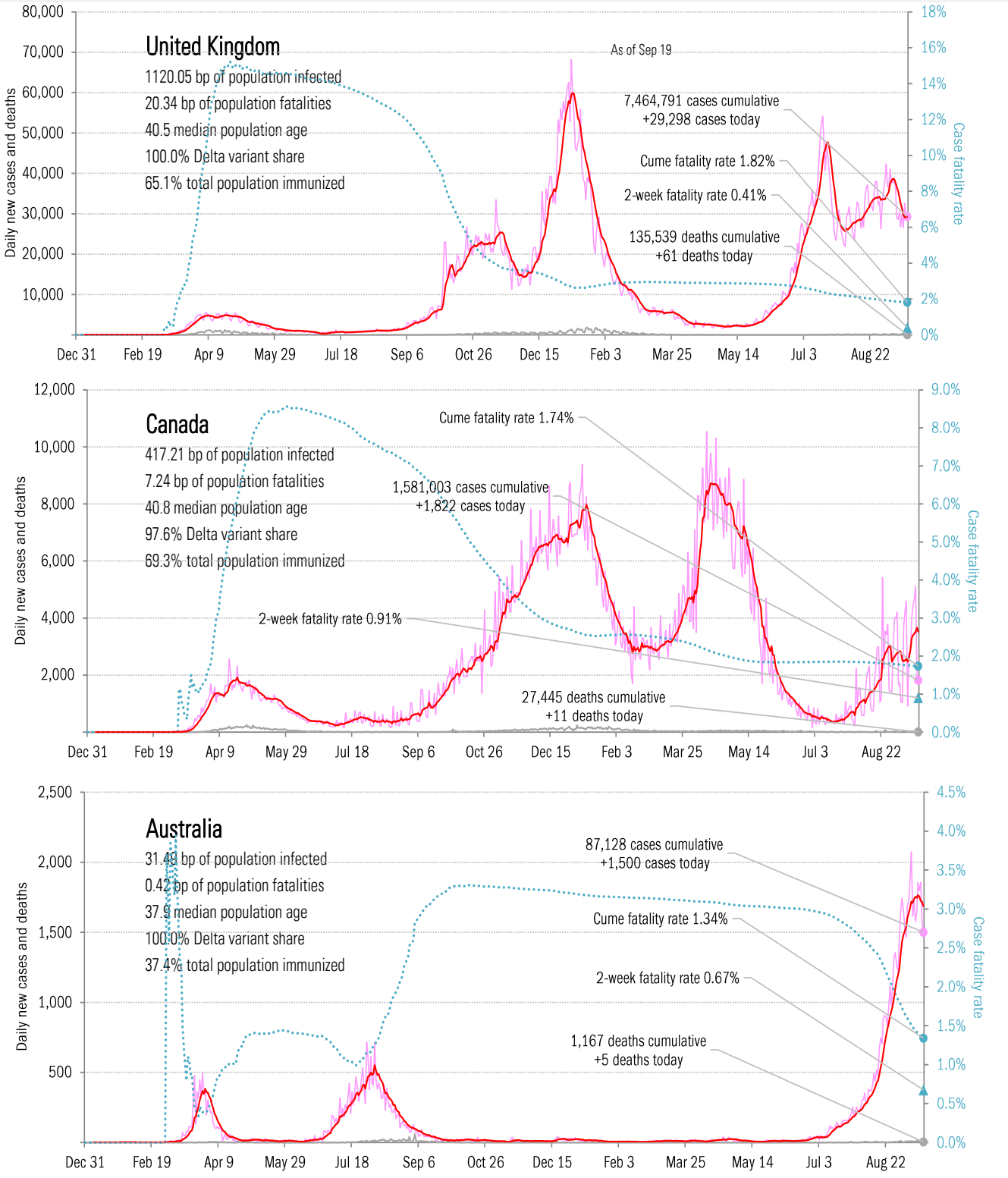
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

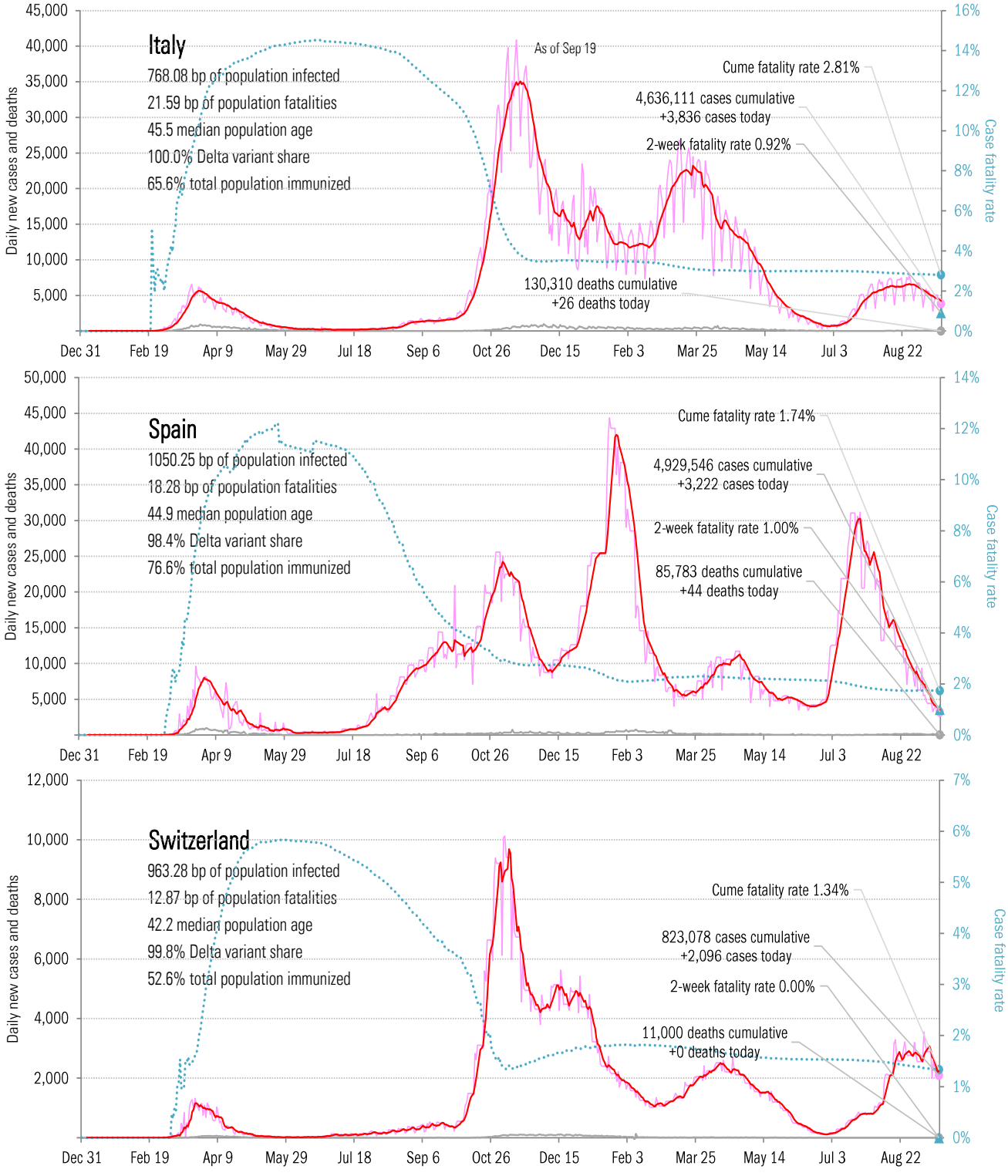
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

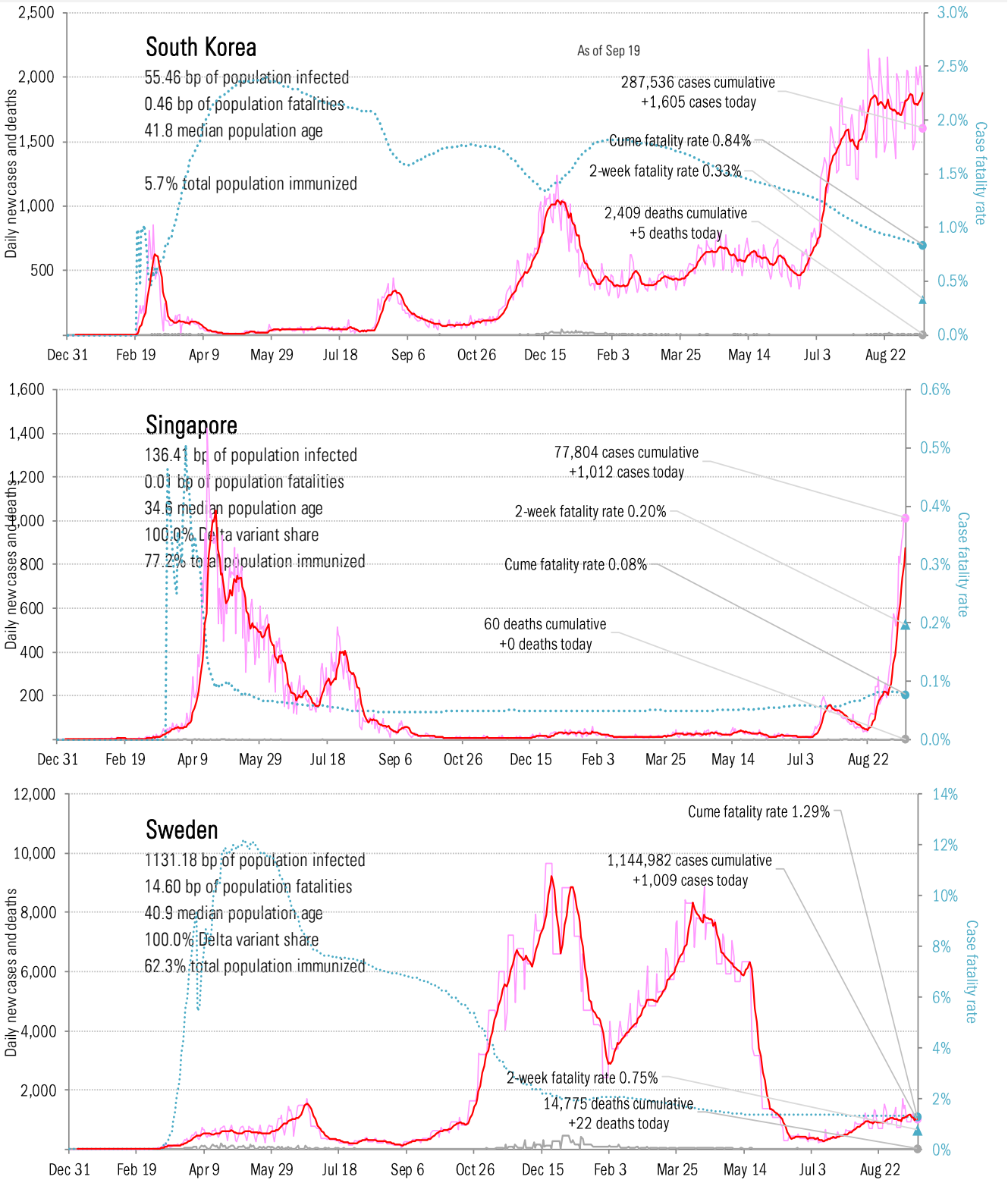
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

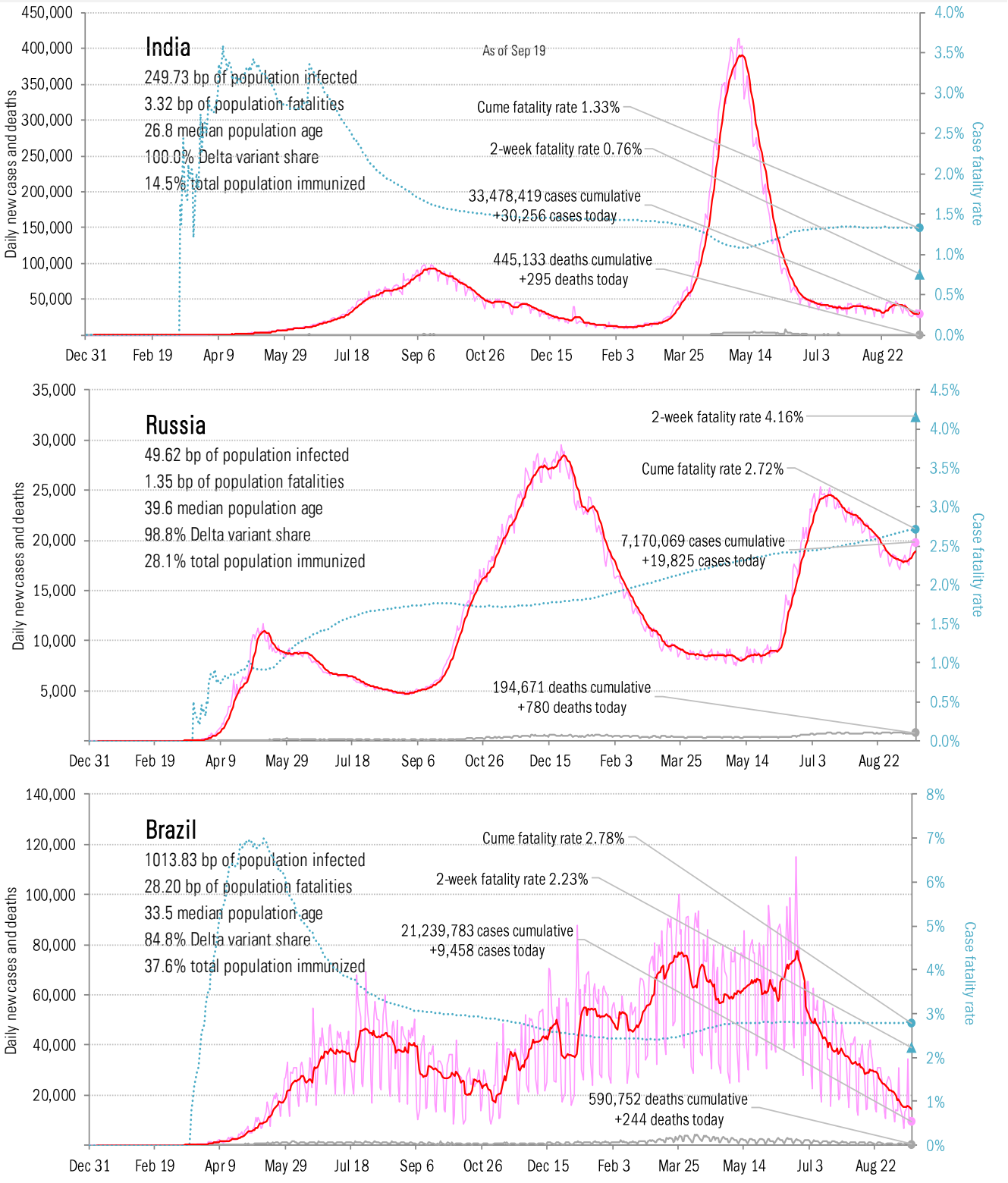
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

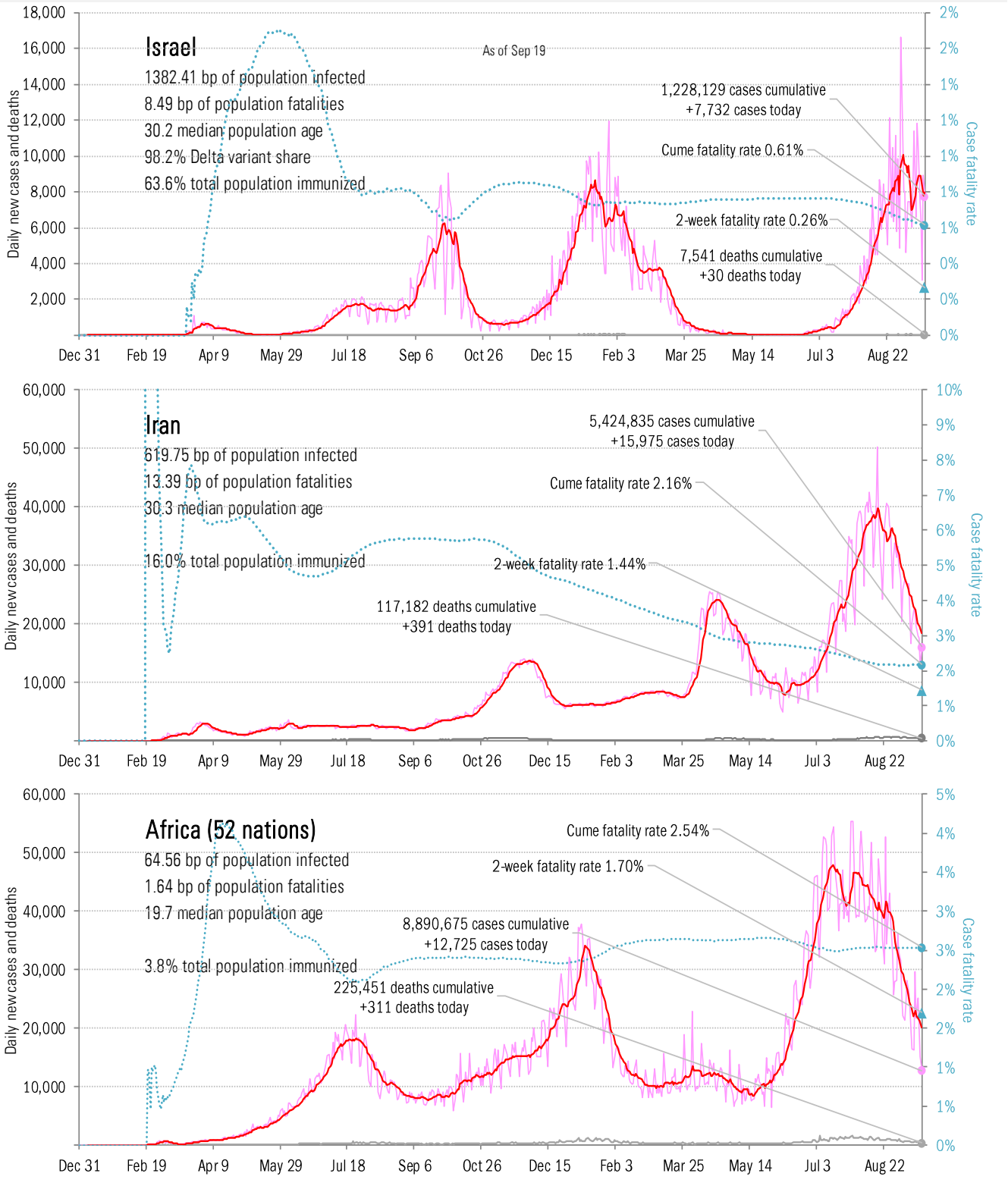
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

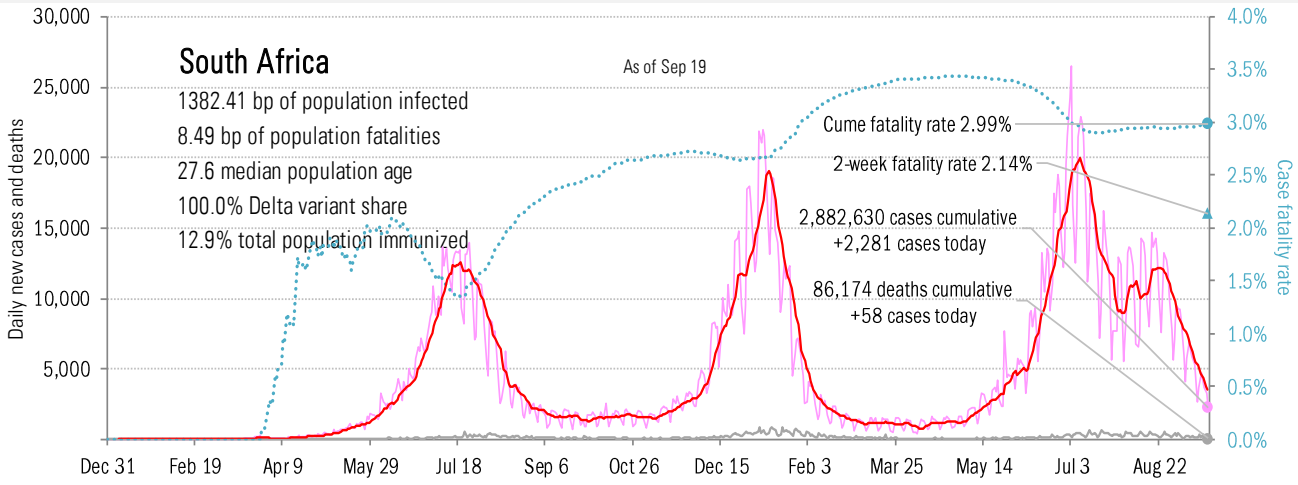
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations