Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

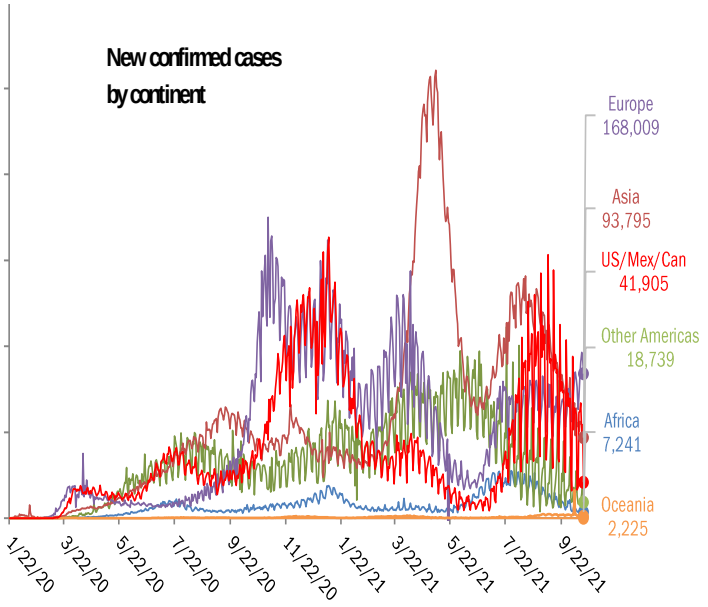
Sunday, October 17, 2021

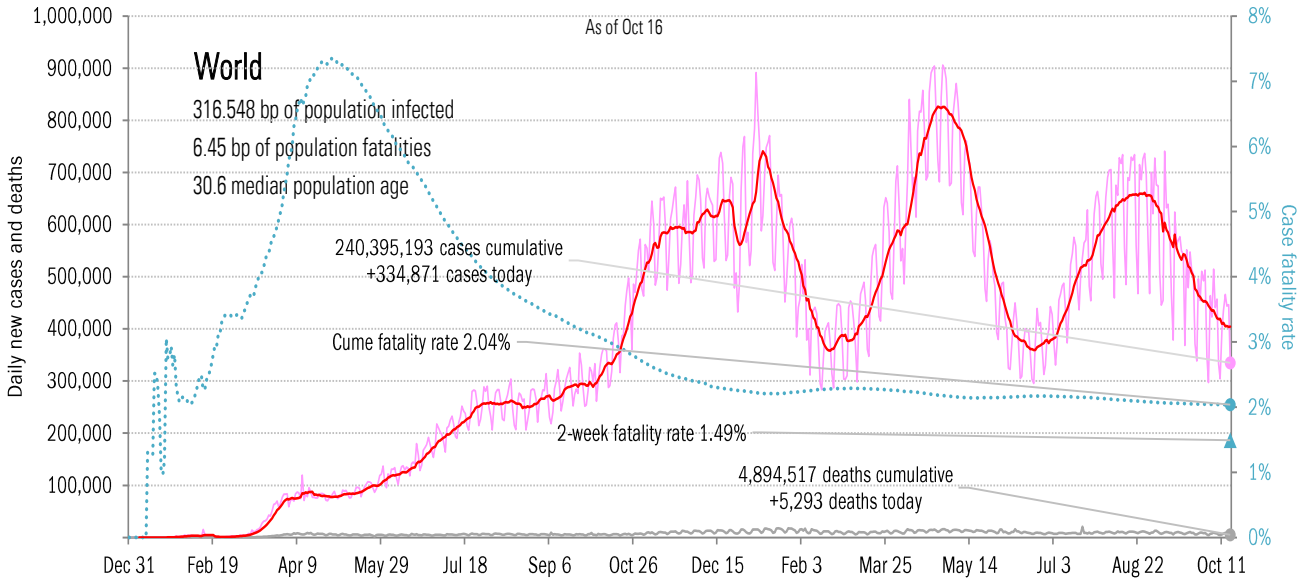
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United Kingdom	+42,899	Russia	+980
United States	+34,512	United States	+569
Russia	+32,351	Brazil	+483
Turkey	+28,537	Romania	+352
Romania	+15,239	Mexico	+313
India	+14,146	Ukraine	+299
Ukraine	+13,840	Turkey	+212
Brazil	+11,250	Iran	+181
Thailand	+10,648	Philippines	+156
Germany	+8,420	United Kingdom	+148
	+211,842		+3,693
World	+334,871	World	+5,293
Top ten	63%	Top ten	70%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

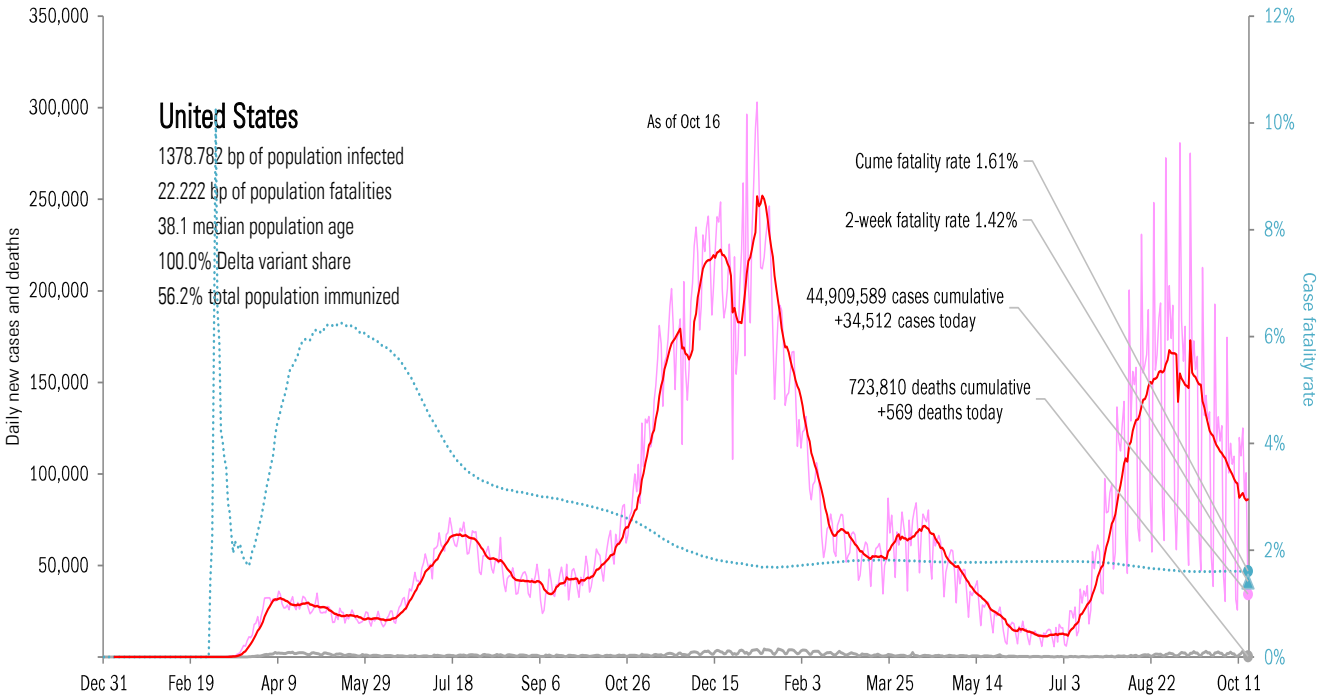
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
WI	+5,285	TX	+212	KY	+51	CA	4,810,682	CA	70,604	TX	368,460	RI	89%	OK	90%
NY	+4,268	FL	+170	NM	+29	TX	4,178,160	TX	68,935	FL	314,543	MA	87%	TX	89%
PA	+3,987	AL	+37	NY	+28	FL	3,657,263	FL	57,516	CA	303,602	PA	85%	AL	89%
OH	+3,709	NJ	+28	CA	+24	NY	2,502,914	NY	55,935	NY	160,052	MD	84%	KY	88%
TX	+2,700	MD	+21	CO	+22	IL	1,665,777	PA	30,418	GA	156,688	MI	83%	ID	88%
FL	+2,687	WI	+21	KS	+17	GA	1,615,699	IL	27,840	OH	118,325	MN	82%	GA	87%
AZ	+2,482	NY	+19	TN	+17	PA	1,506,111	GA	27,774	PA	111,882	MO	82%	NM	87%
NJ	+1,452	DE	+11	MO	+12	OH	1,494,160	NJ	27,720	KY	109,247	NY	82%	NH	86%
WV	+1,172	ND	+11	AK	+11	NC	1,446,881	OH	23,327	IL	102,622	NH	81%	NV	86%
MO	+1,019	AZ	+9	ME	+10	TN	1,263,068	MI	22,969	MI	87,419	GA	81%	AR	86%
	+28,761		+539		+221		24,140,715		413,038		1,832,840				
All states	+34,512		+569		-262	All states	44,909,589		723,810		3,266,511	All states	70%		67%
Top ten	83%		95%		-84%	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	-9,989	OH	-306	MI	-67	MS	+20 bp
CA	-7,001	GA	-209	MT	-67	MT	+20 bp
FL	-6,600	CA	-136	UT	-61	AK	+10 bp
TX	-4,096	SC	-118	PA	-59	AL	+10 bp
OR	-3,422	MI	-105	IL	-44	AR	+10 bp

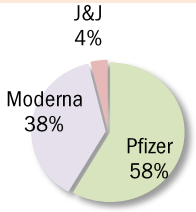


Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	418,910,436				+0.904 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	223,878,037	67%	193,648,476	58%	+0.255 million
Age 12 to 17	14,022,078	59%	11,559,059	49%	+0.026 million
Age 18 to 64	154,793,322	76%	133,509,154	66%	+0.198 million
Age 65 and over	53,967,953	99%	47,682,283	87%	+0.030 million

Immunity	Full	Partial
US	56.2%	65.0%
UK	65.7%	72.4%
France	67.1%	75.2%
Spain	79.2%	81.0%
Germany	65.2%	68.2%
Italy	69.9%	76.5%
Australia	55.2%	70.8%
Israel	64.8%	70.6%
Canada	72.7%	77.6%
Japan	66.4%	75.1%
Africa	5.0%	7.7%
India	20.0%	49.8%
Brazil	49.2%	72.9%
China	72.6%	76.2%



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

Best
Middle
Worst

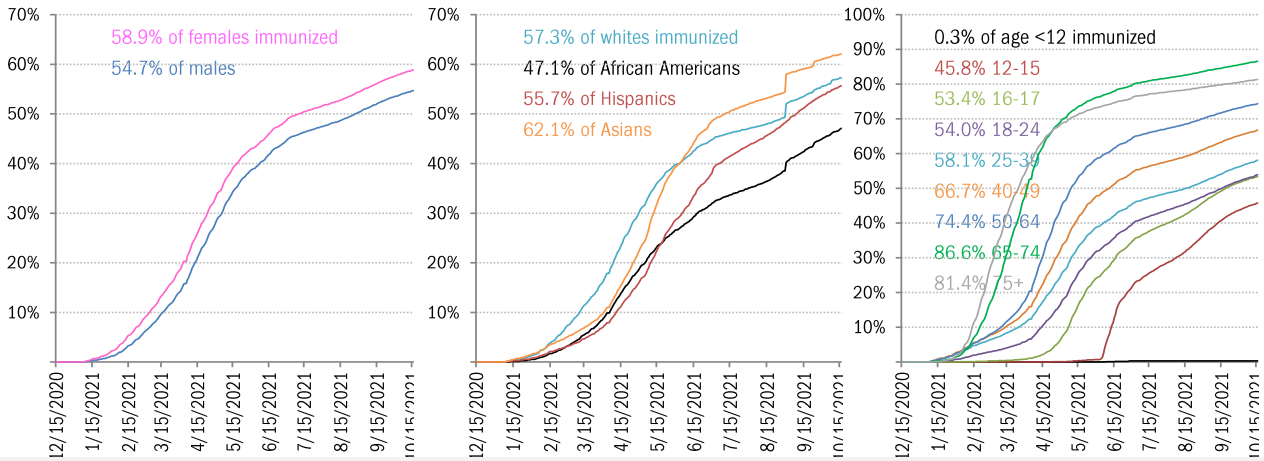
Every American >18 immune in
81 days
by Jan 5, 2022
70.2% of population >18 immunized
16.0% previously tested positive
86.2% vs 60% adult herd immunity

As of Oct 16

Global data differs from sources, timing

AK					WI					ME
58.3%					61.9%					75.3%
51.6%					57.6%					69.6%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
68.4%	48.1%	56.0%	52.3%	64.3%	69.4%	57.5%		72.9%	78.7%	72.6%
62.5%	42.8%	49.6%	45.3%	59.0%	54.4%	52.9%		65.4%	70.5%	62.3%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
67.6%	62.1%	49.8%	60.7%	58.9%	53.0%	55.1%	75.0%	73.8%	78.7%	
62.0%	51.9%	43.0%	52.6%	54.8%	49.2%	51.2%	59.2%	65.5%	68.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
73.2%	60.2%	66.6%	60.2%	55.9%	62.0%	48.7%	69.8%	71.9%	77.7%	76.8%
60.2%	52.5%	60.6%	55.6%	49.0%	53.9%	40.8%	62.0%	65.3%	69.8%	69.8%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	60.3%	73.8%	61.2%	56.7%	53.7%	62.0%	56.5%	72.5%	67.8%	
	52.2%	64.3%	52.3%	46.8%	46.8%	51.7%	48.9%	61.3%	58.9%	
			OK	LA	MS	AL	GA			
			57.9%	52.7%	51.3%	53.5%	56.0%			
			48.9%	46.7%	44.9%	43.9%	47.1%			
HI			TX					FL		PR
77.7%			60.6%					68.1%		80.5%
59.0%			52.4%					58.7%		72.0%

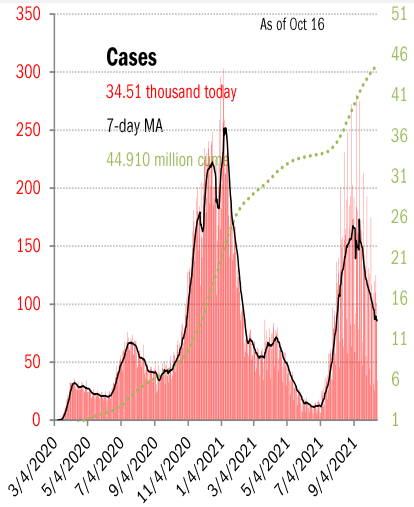
The demographics of US vaccination

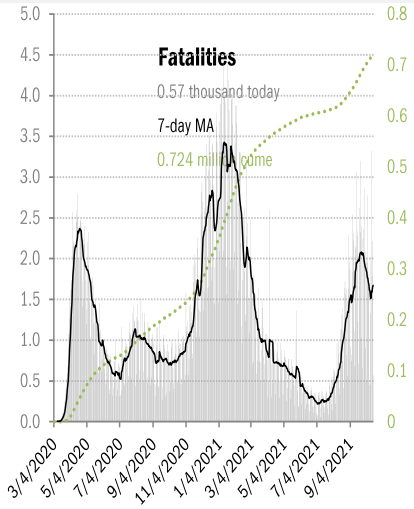


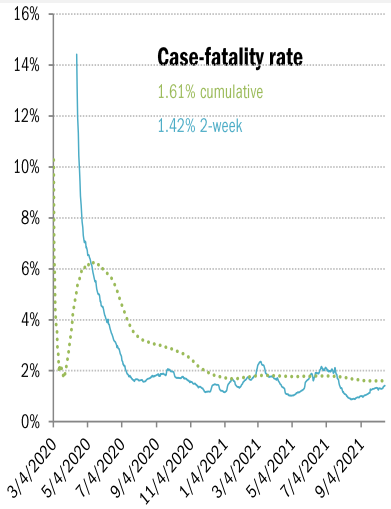
Source: CDC, CDC, Our World in Data, TrendMacro calculations

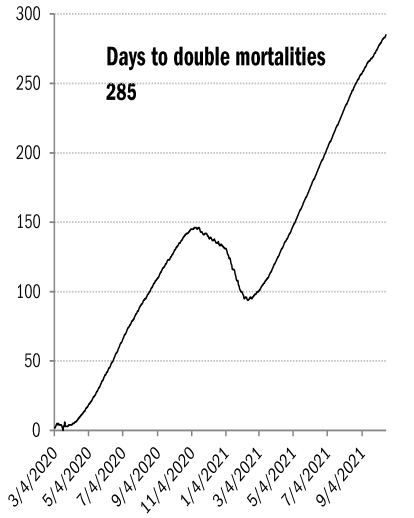
US deep-dive

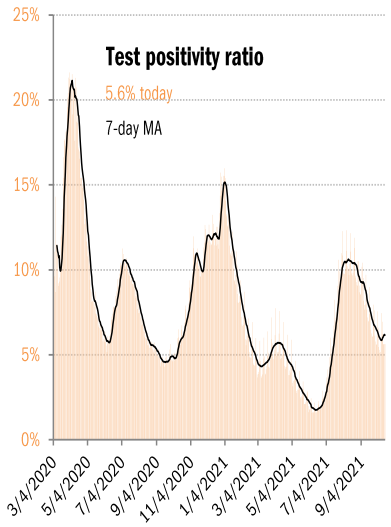
National and state-by-state data do not line up because of different sources

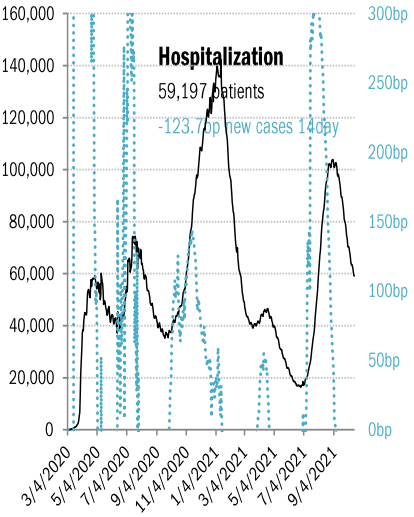


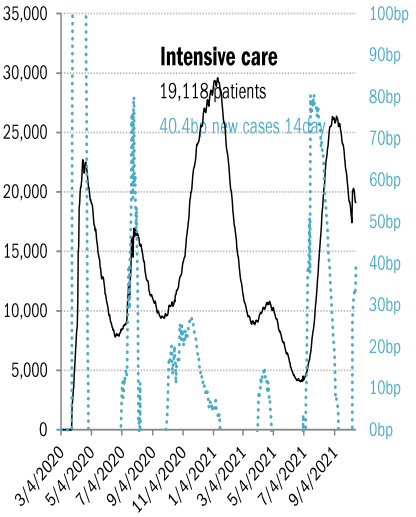


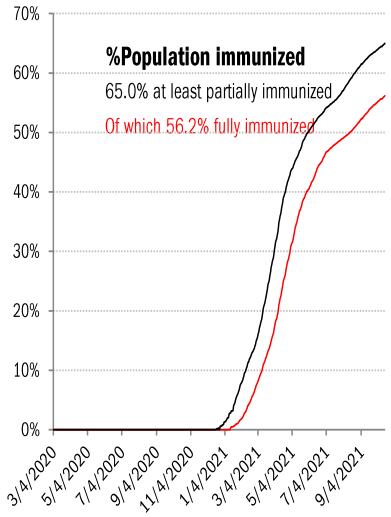












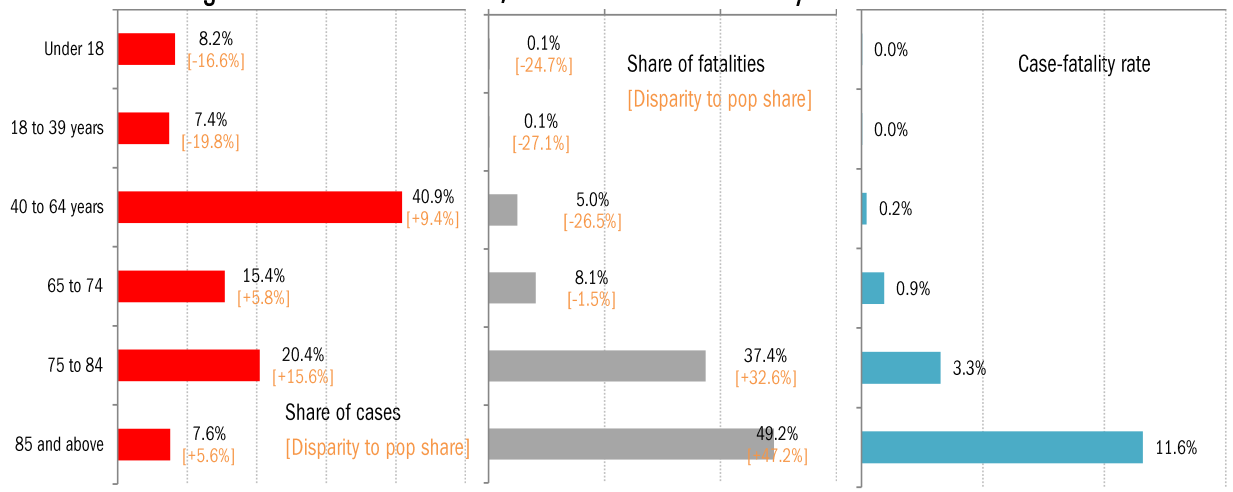
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

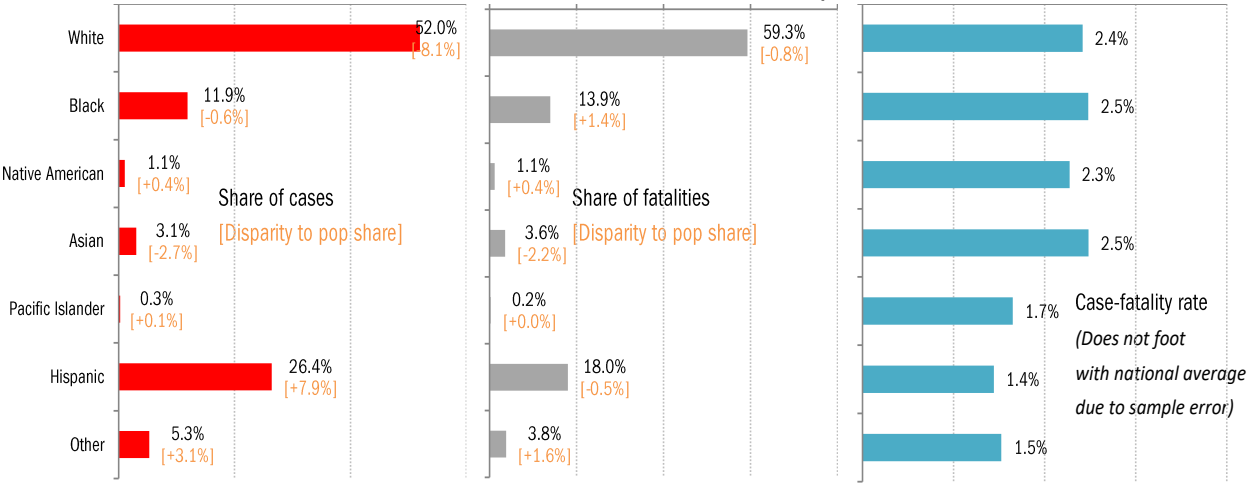
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



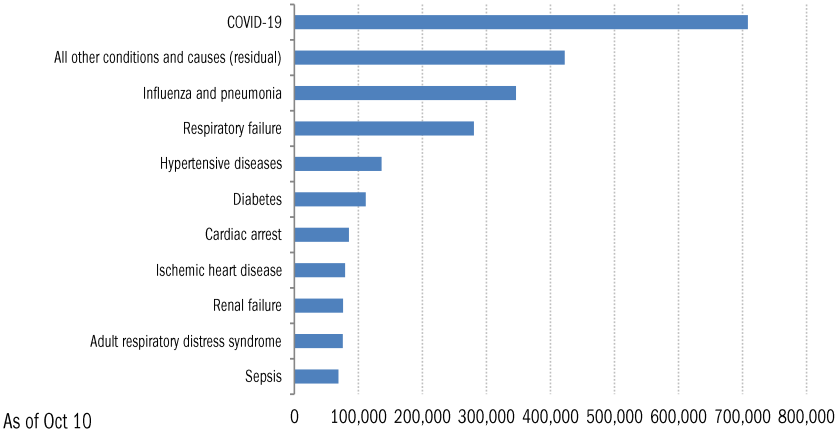
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Oct 10

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

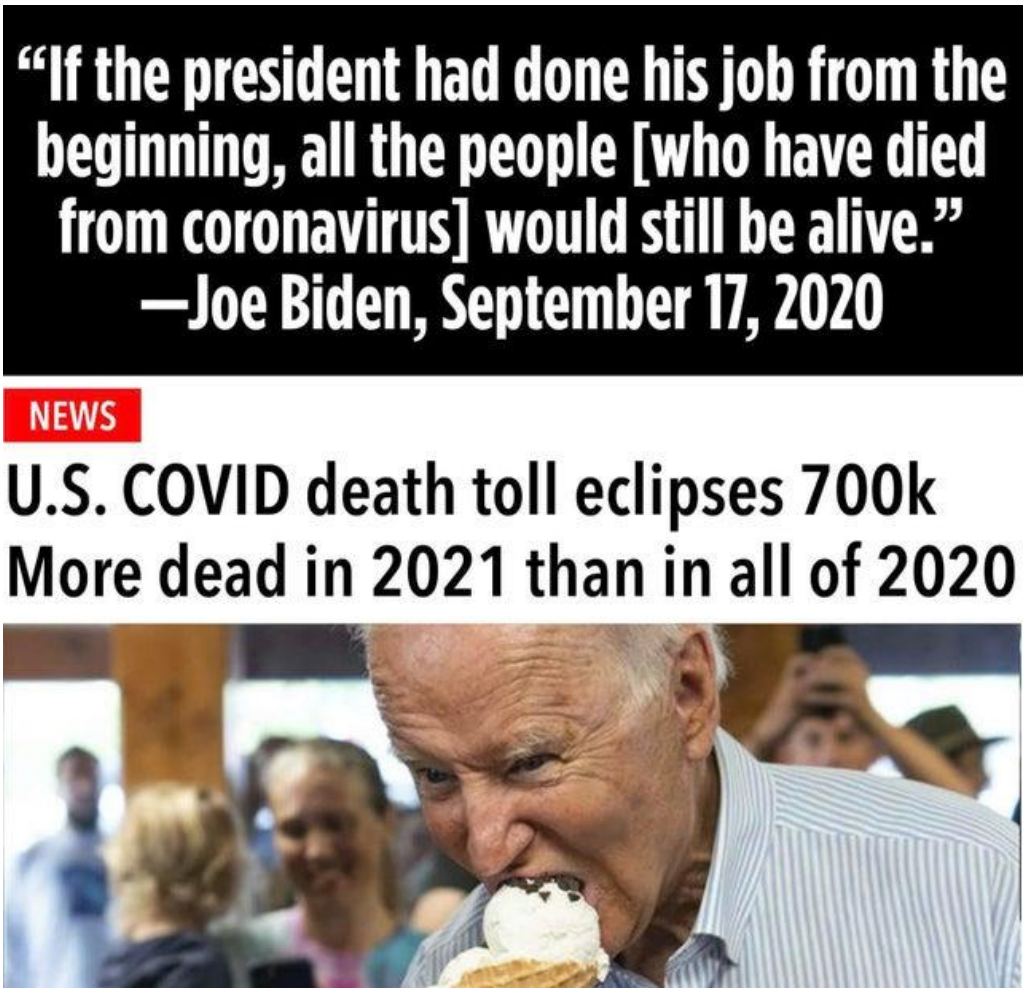
Coverage for Injuries Resulting from the COVID-19 Vaccination Mandate for Federal Employees.
FECA Bulletin No. 22-01
October 1, 2021

Your Natural Immunity Cheat Sheet
Rational Ground
October 11, 2021

Moderna Vaccine May Be Best Antibody Booster After J&J's
Robert Langreth
Bloomberg
October 15, 2021

Texas Supreme Court Puts San Antonio School District's Vaccine Mandate on Hold Hours Before It Was to Begin
Joshua Fechter
The 74
October 15, 2021

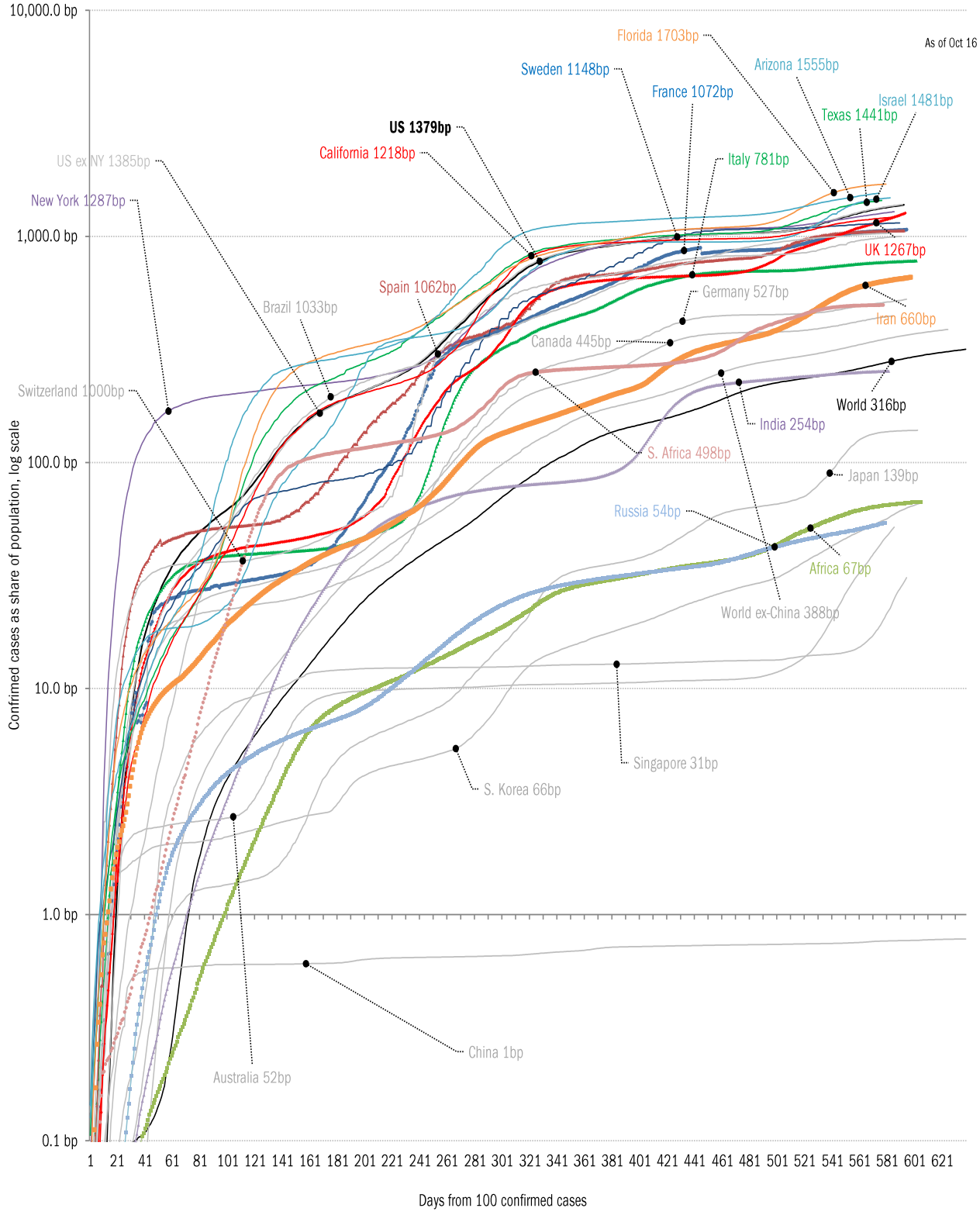
Meme of the day



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

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

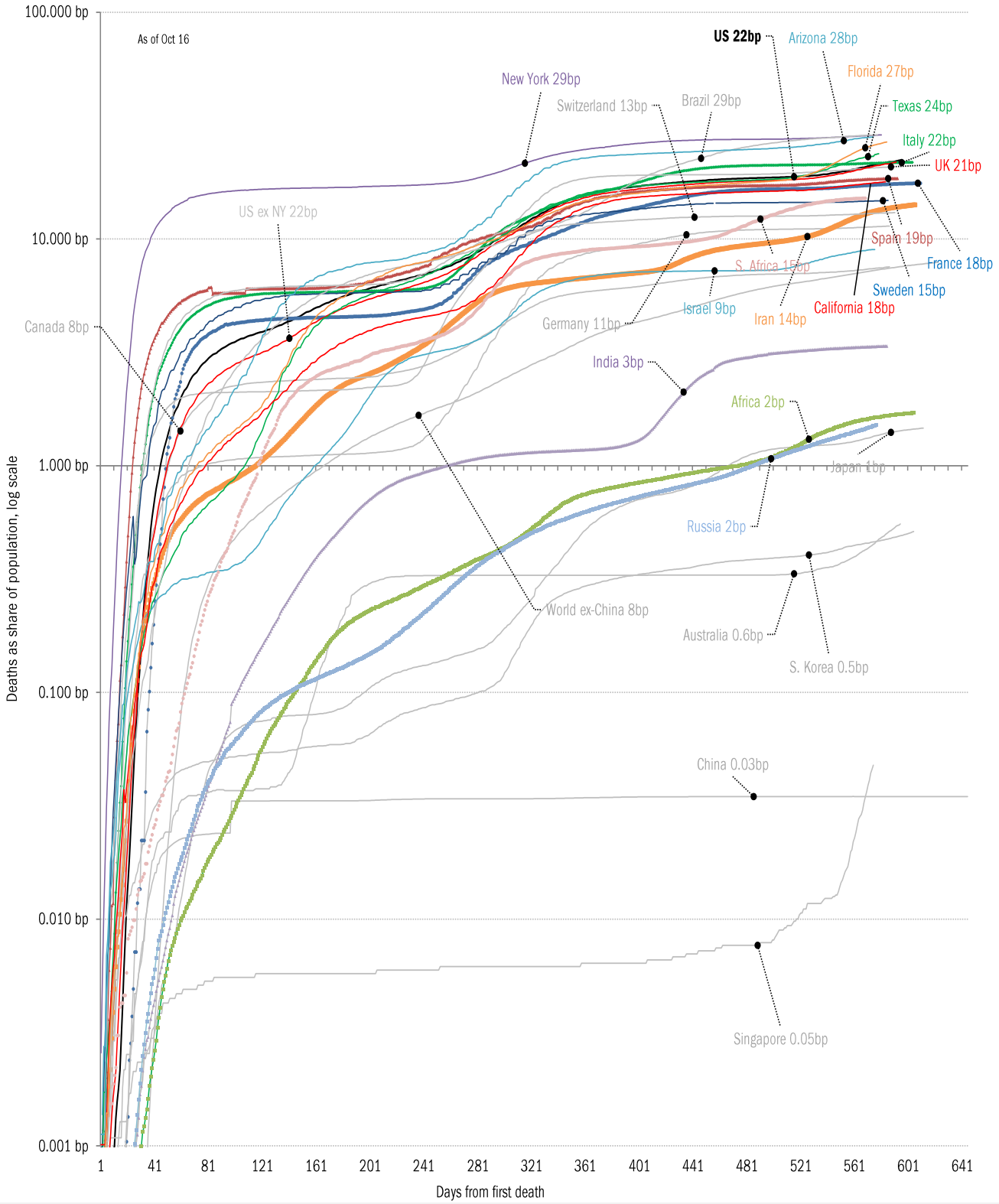
Share of infected population from first day with 100 confirmed cases, log scale



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

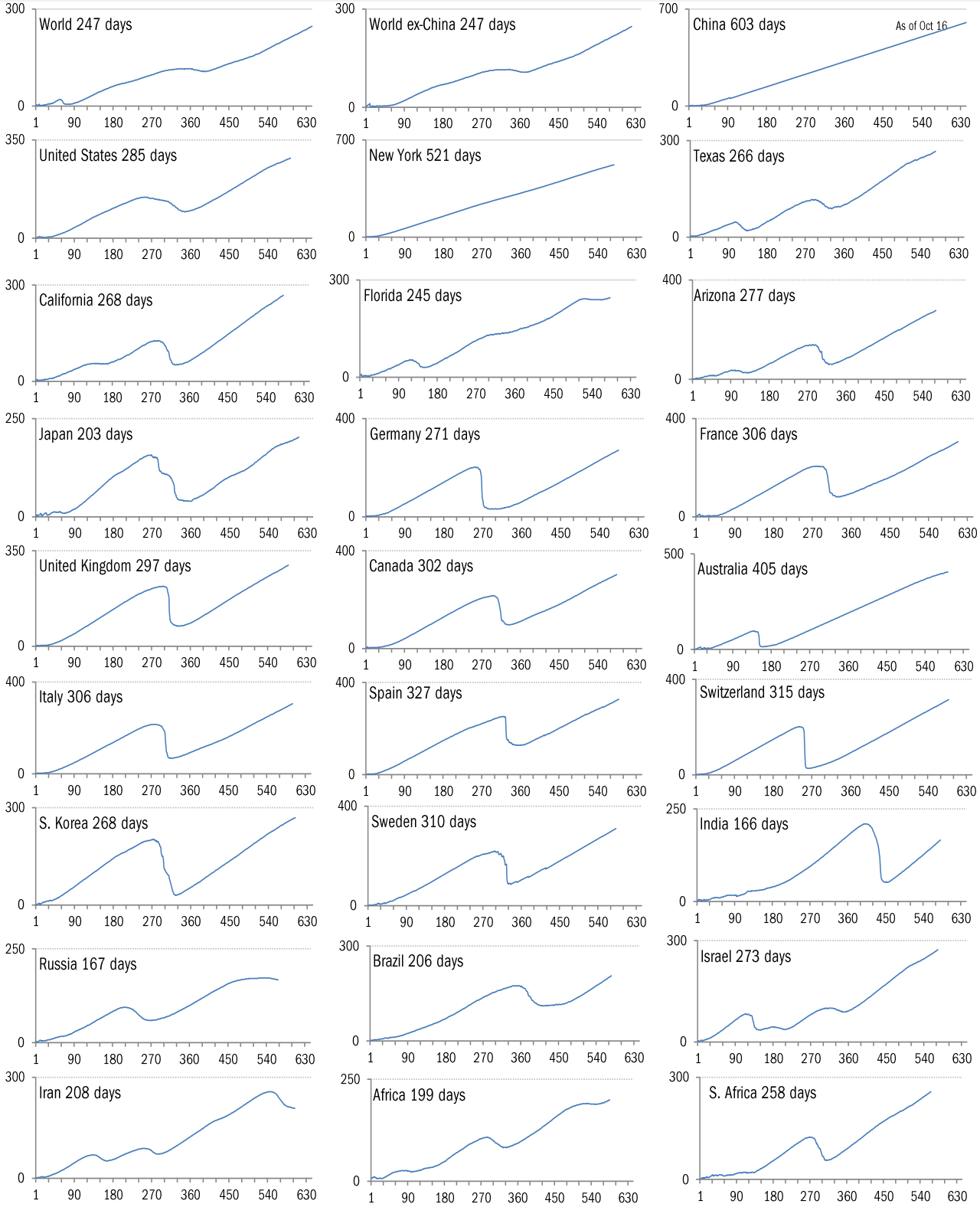


Source: Johns Hopkins, TrendMacro calculations

"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

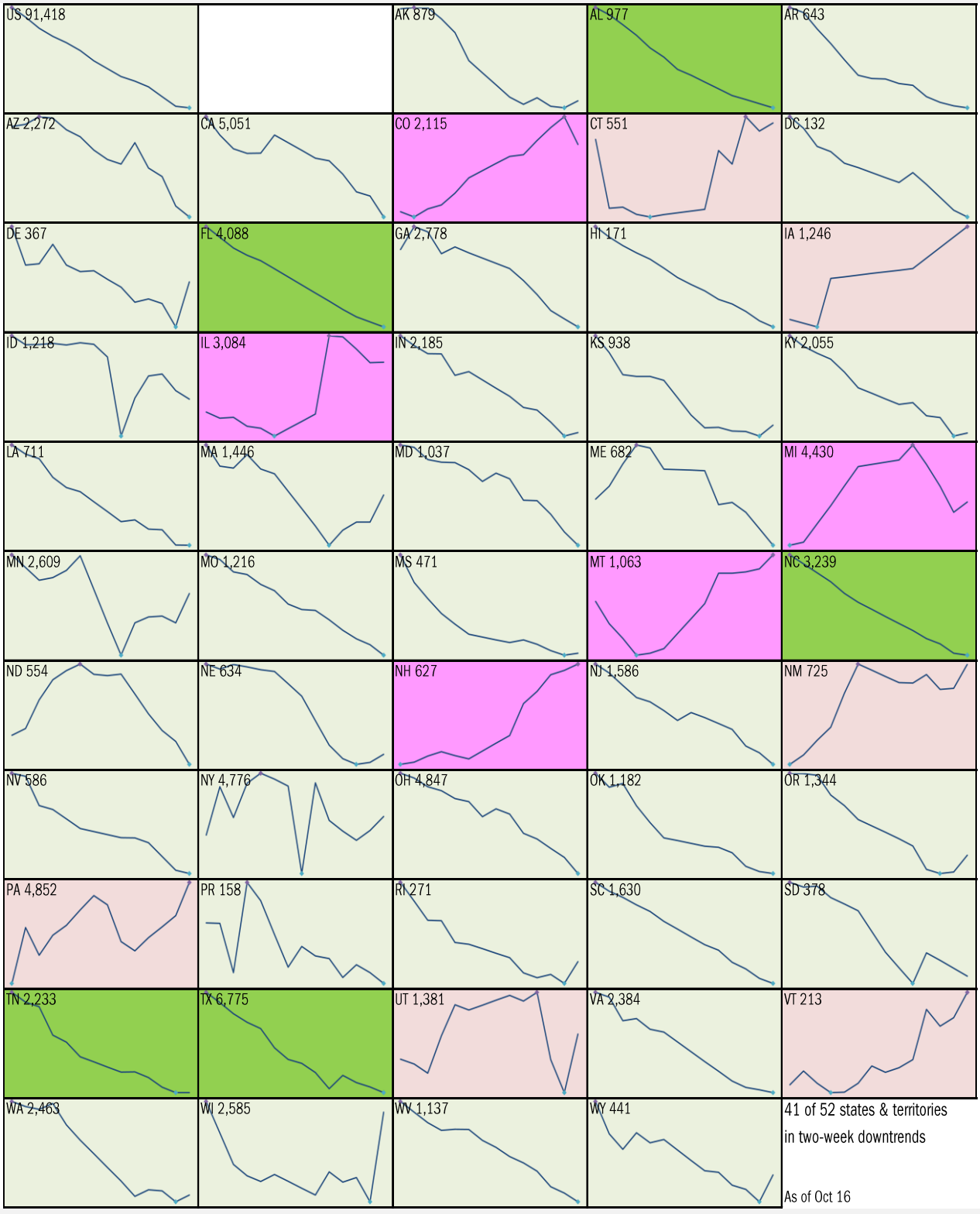


Source: Johns Hopkins, TrendMacro calculations

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

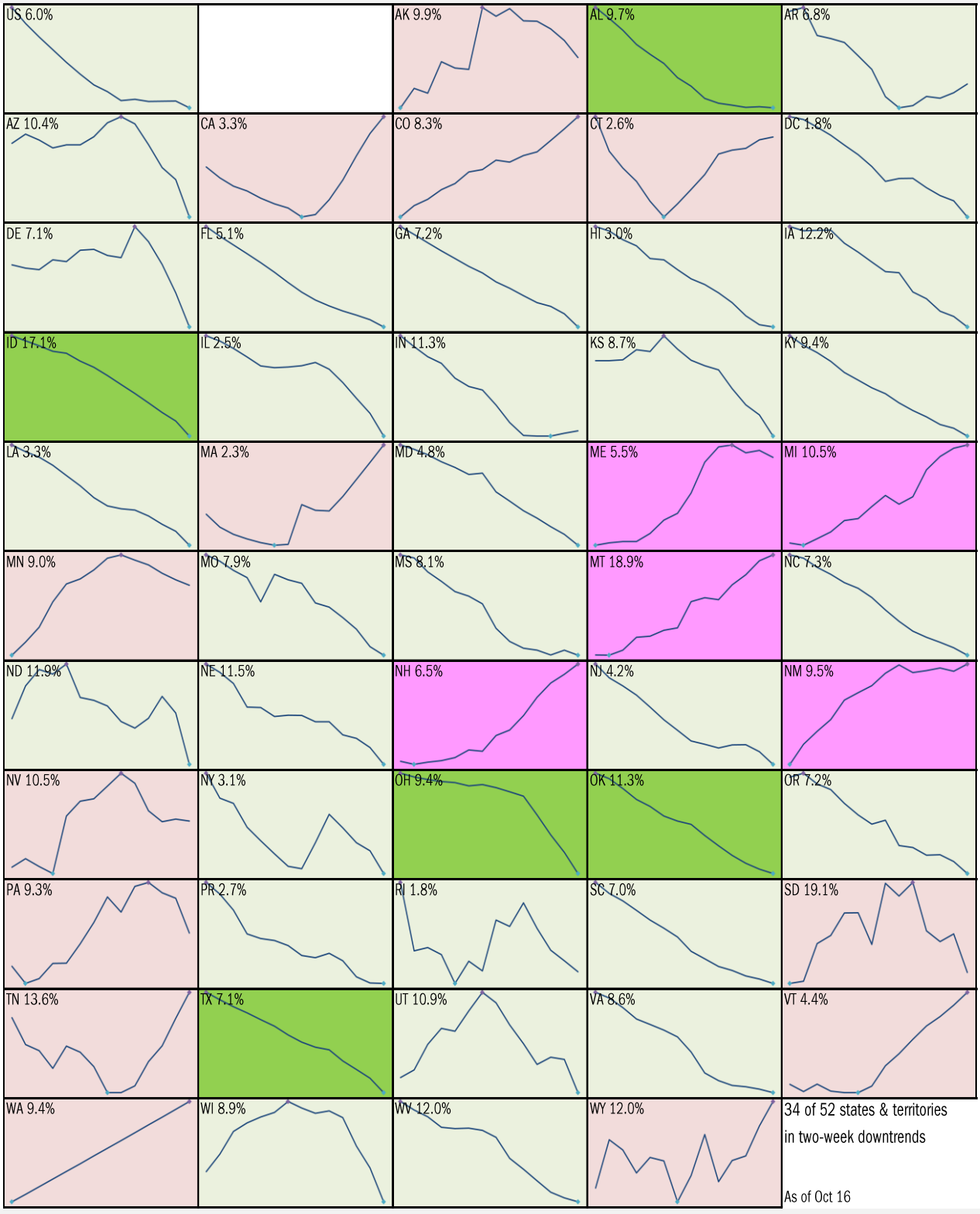


Source: Johns Hopkins, TrendMacro calculations

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

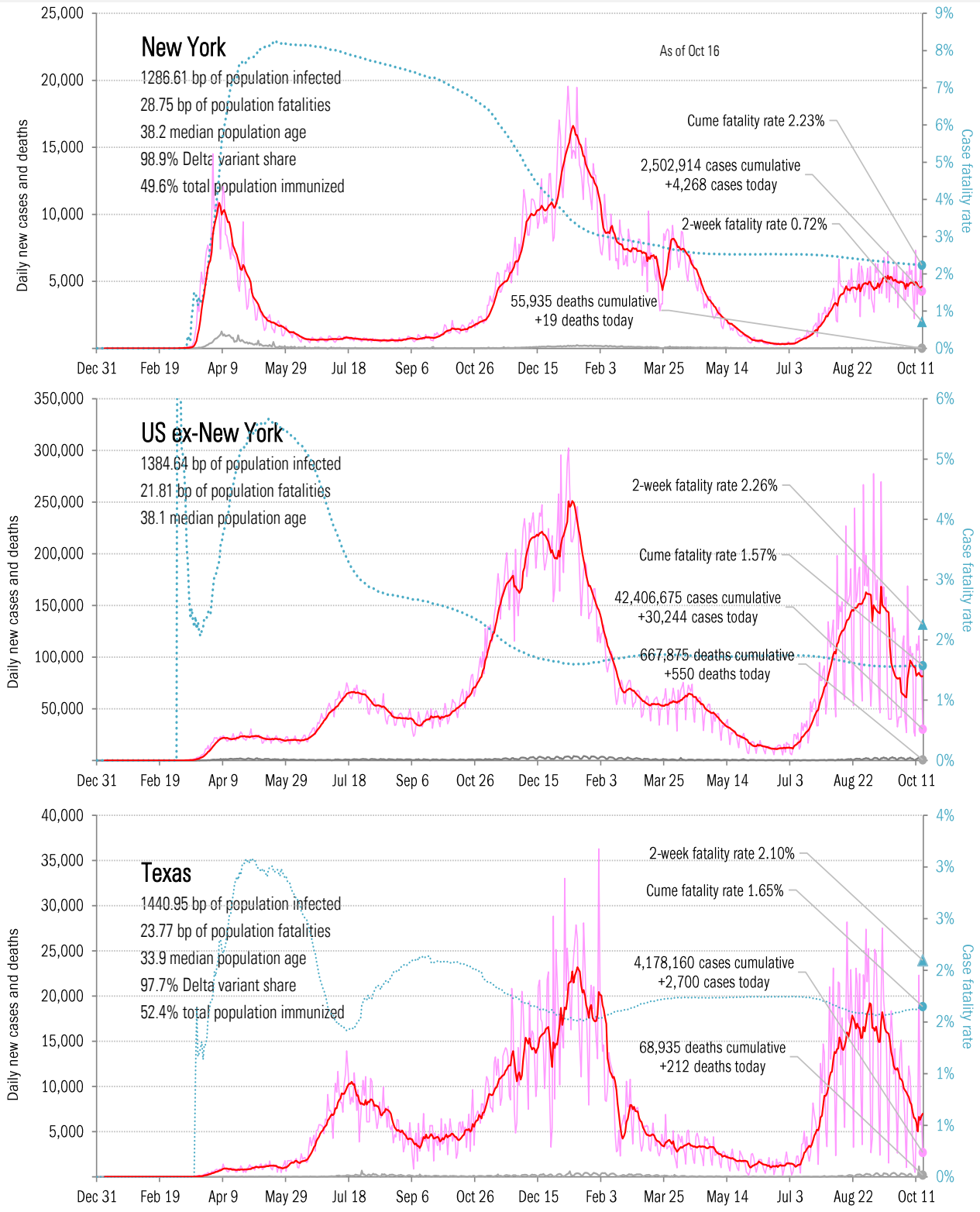
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

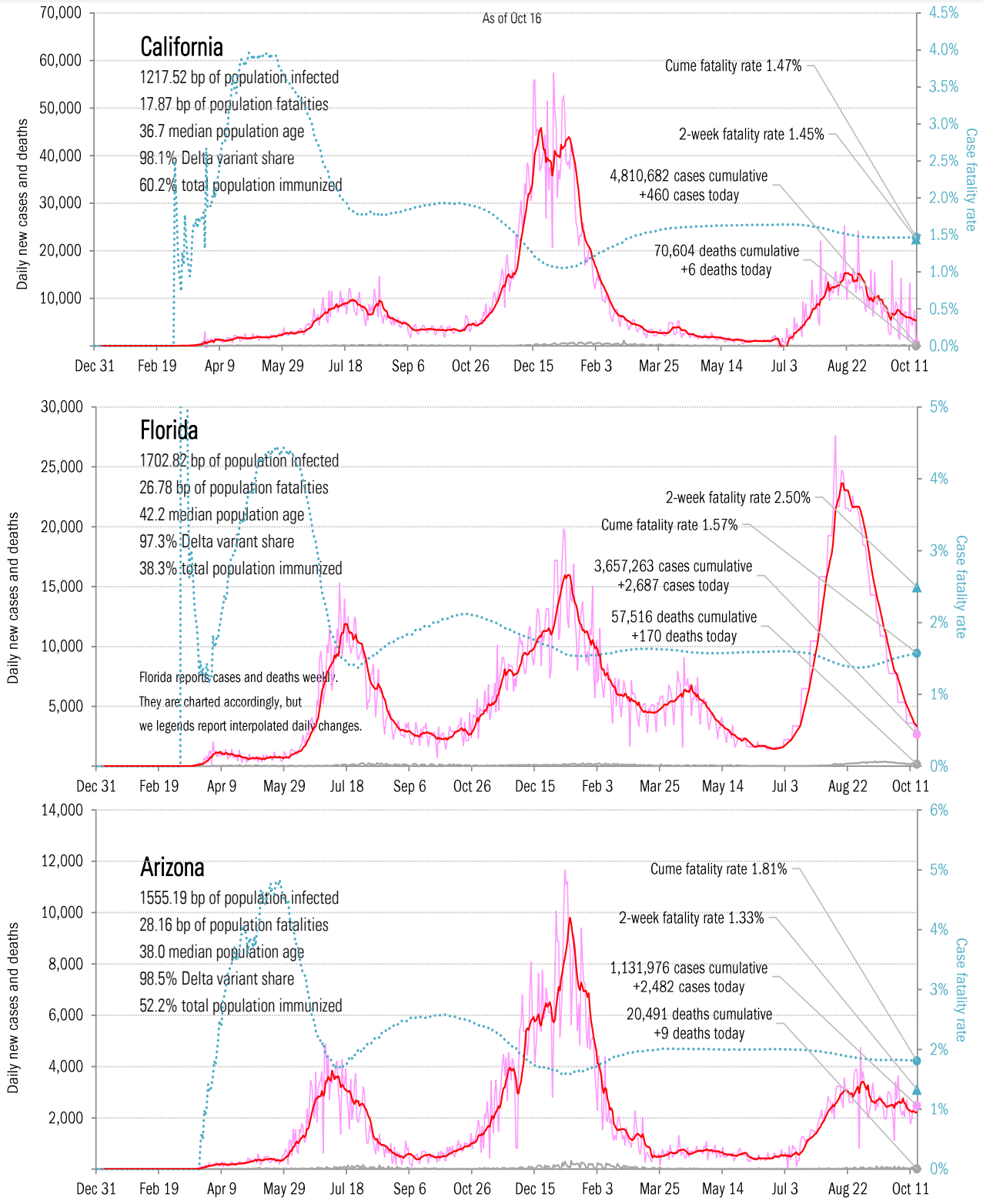
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

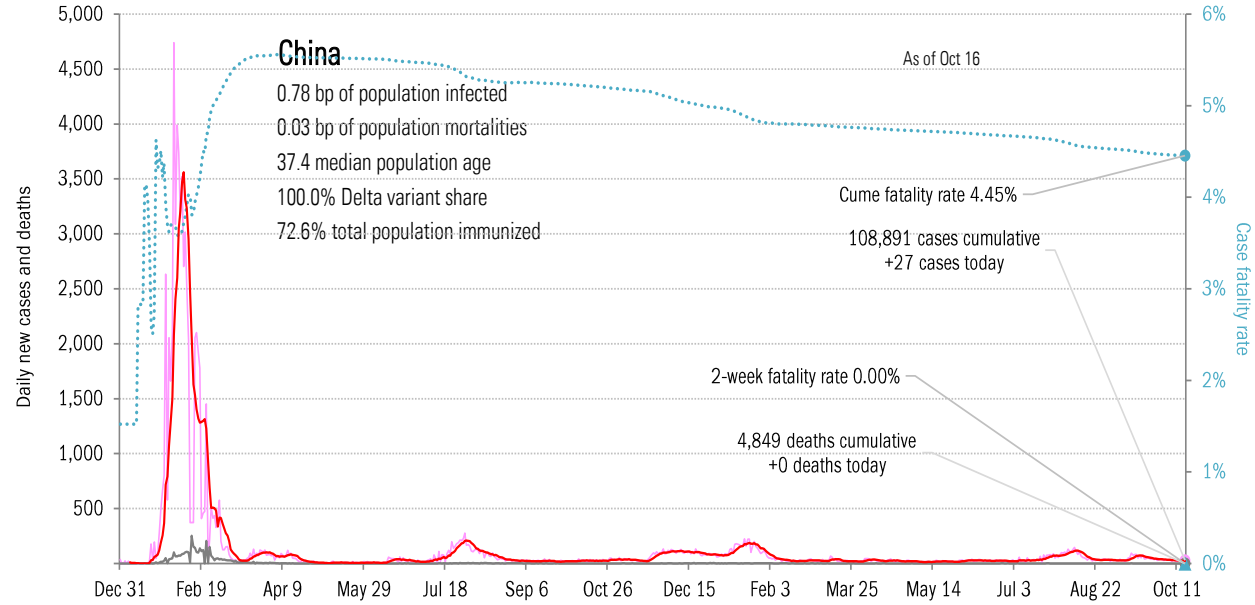
Cases: 7-day average and daily Deaths: Daily

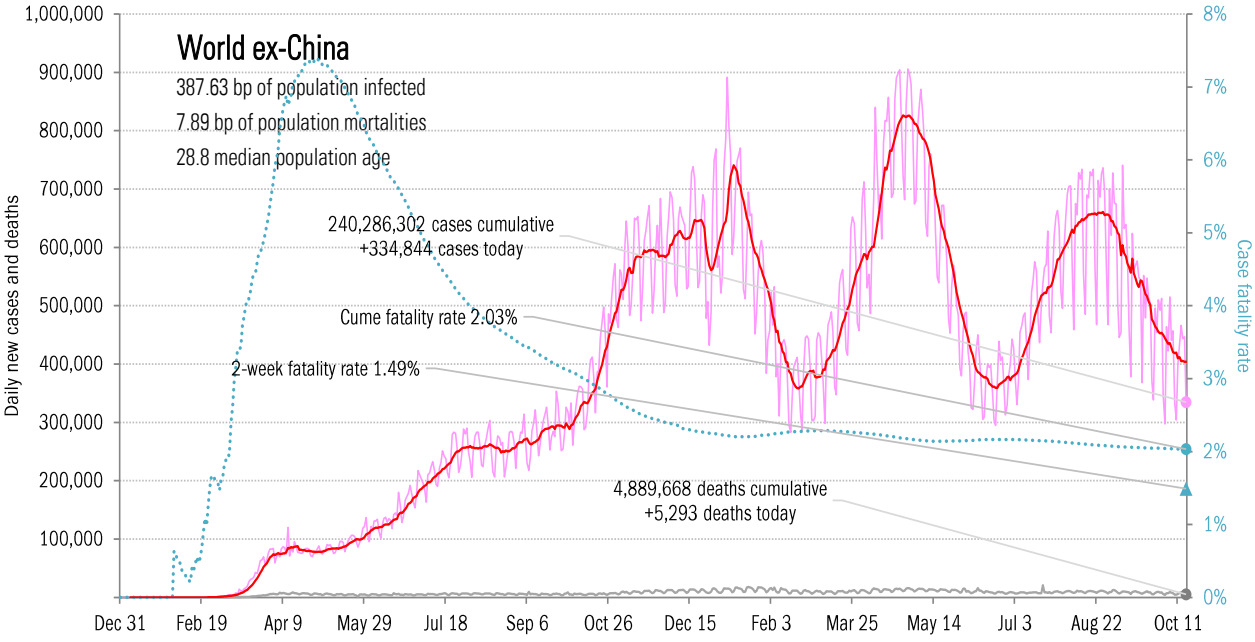


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

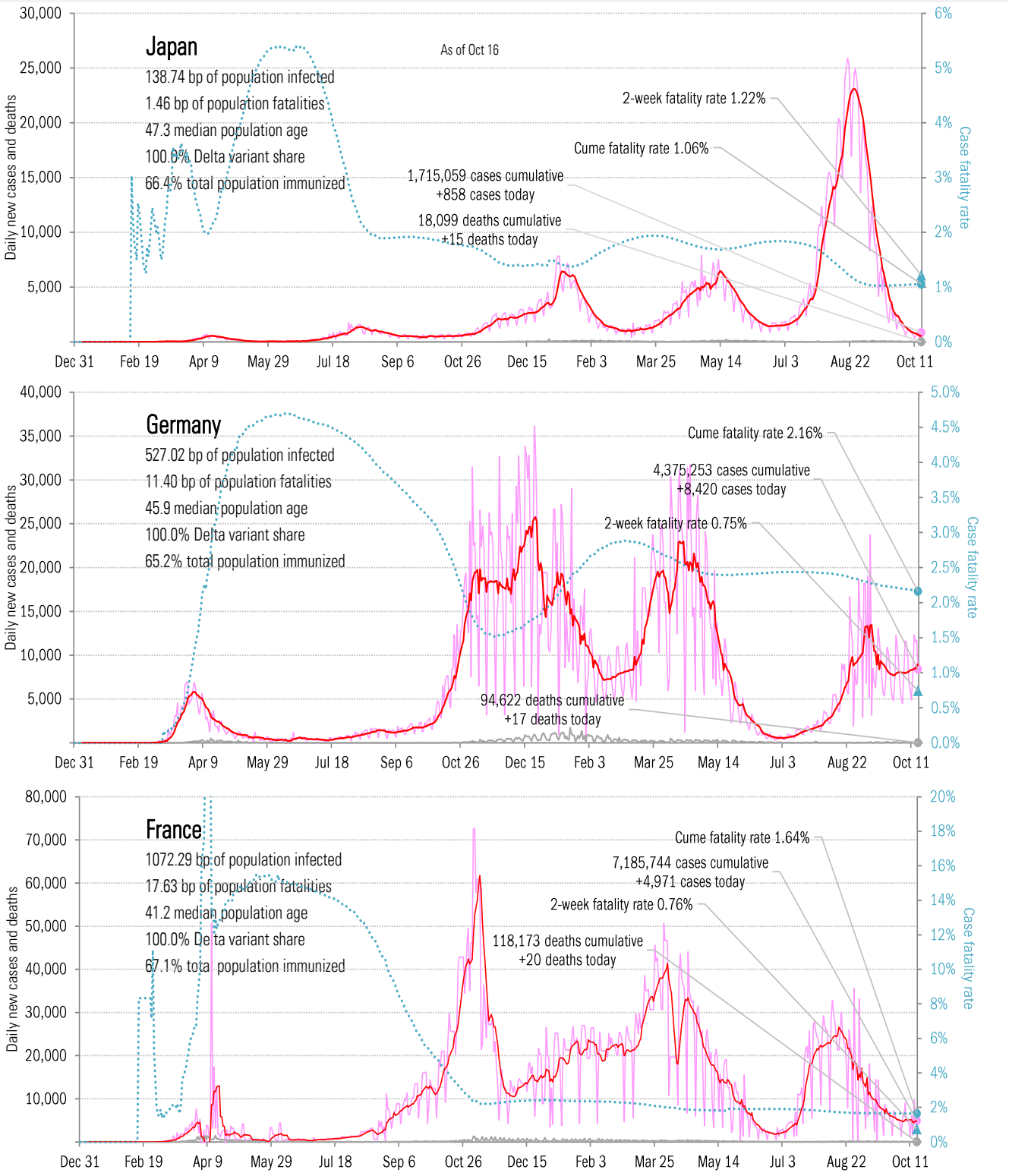




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

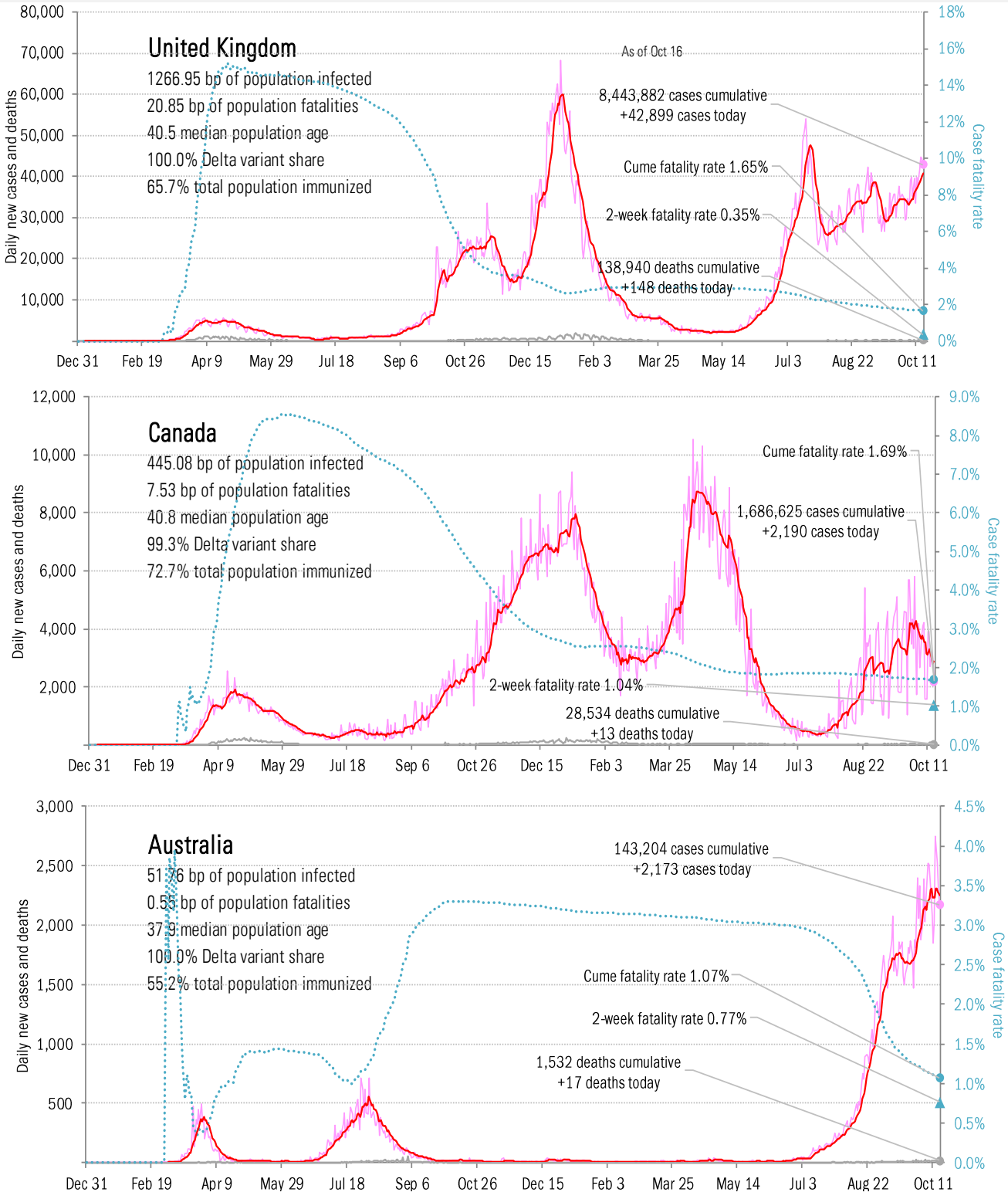
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

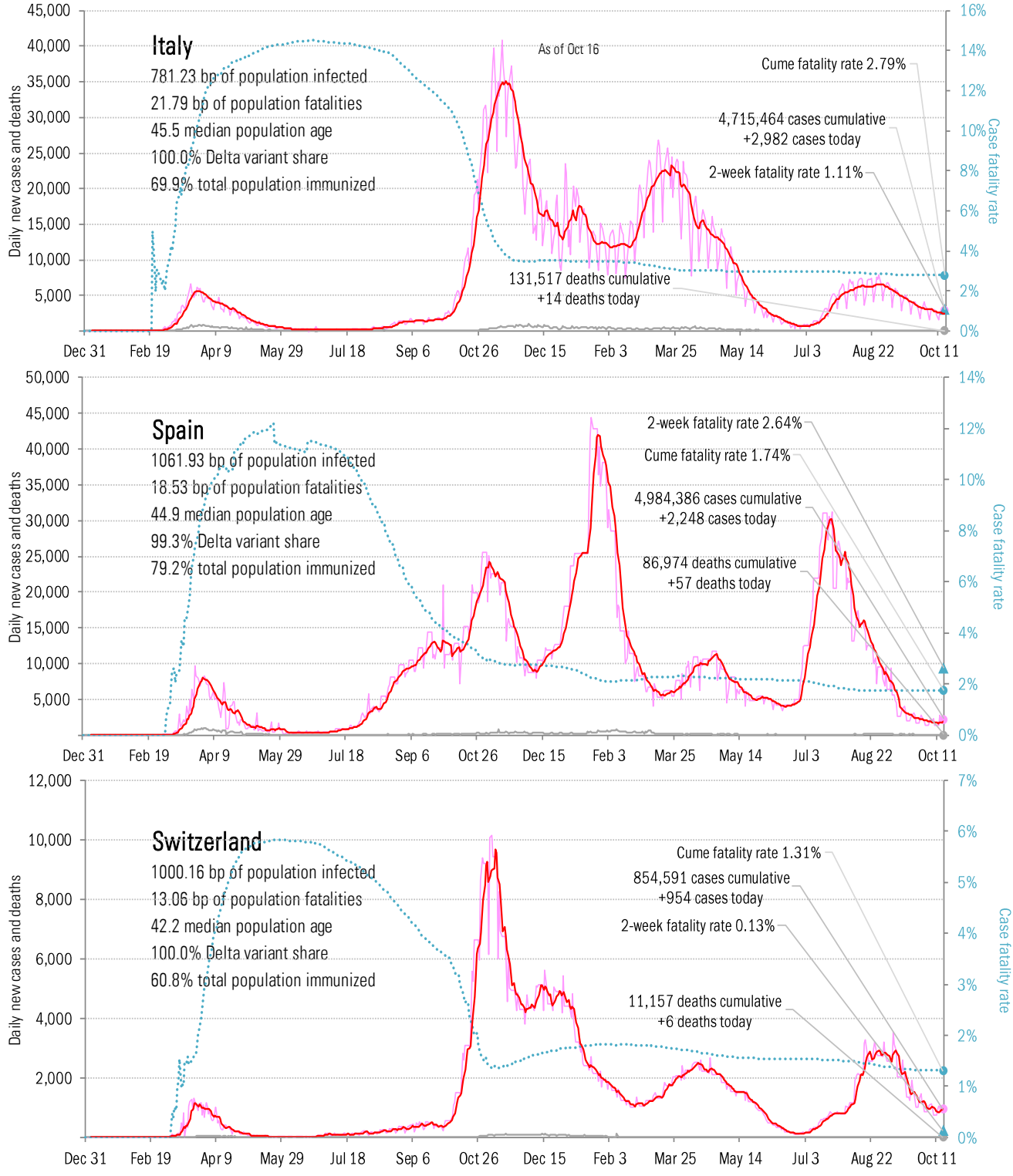
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

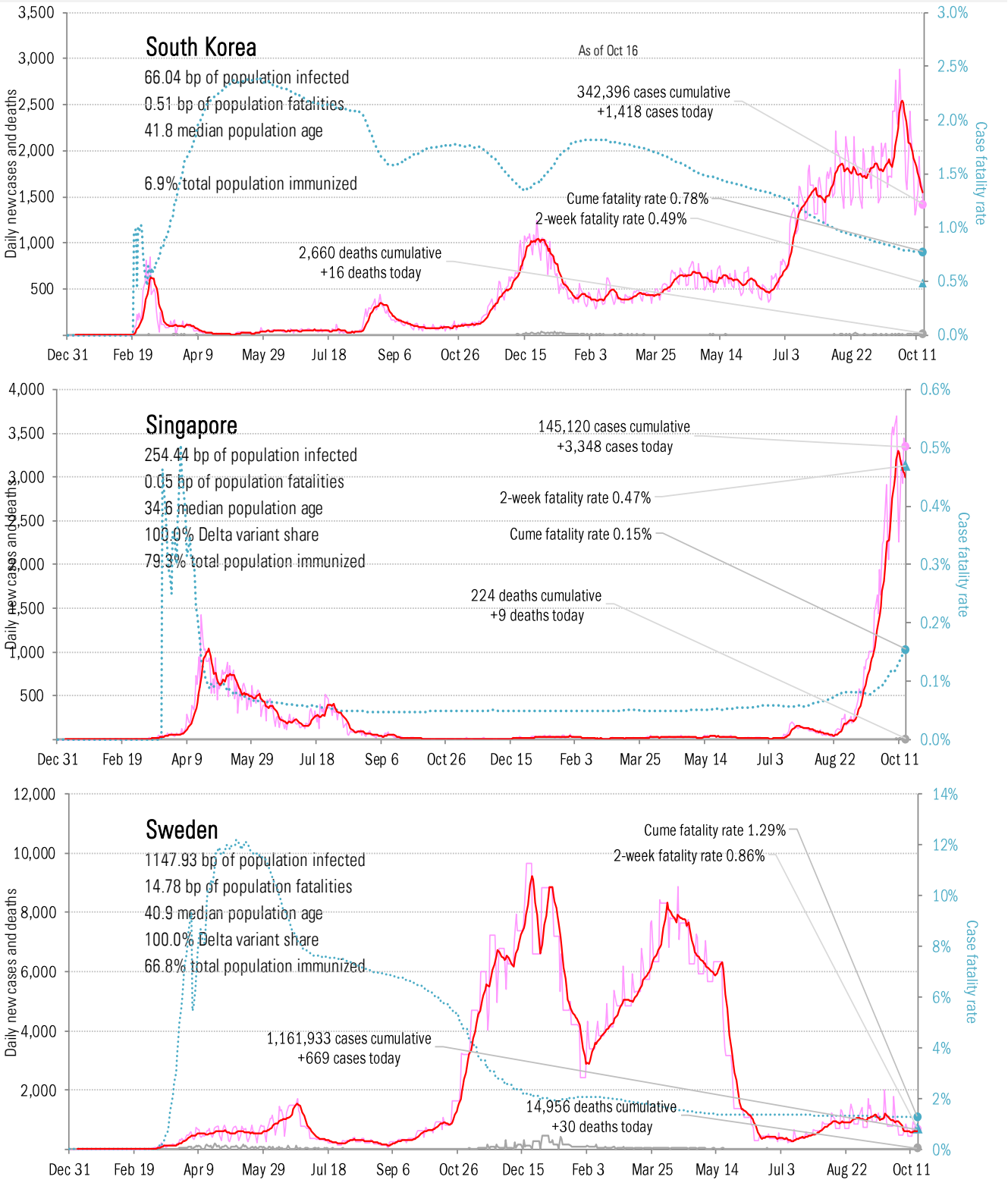
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

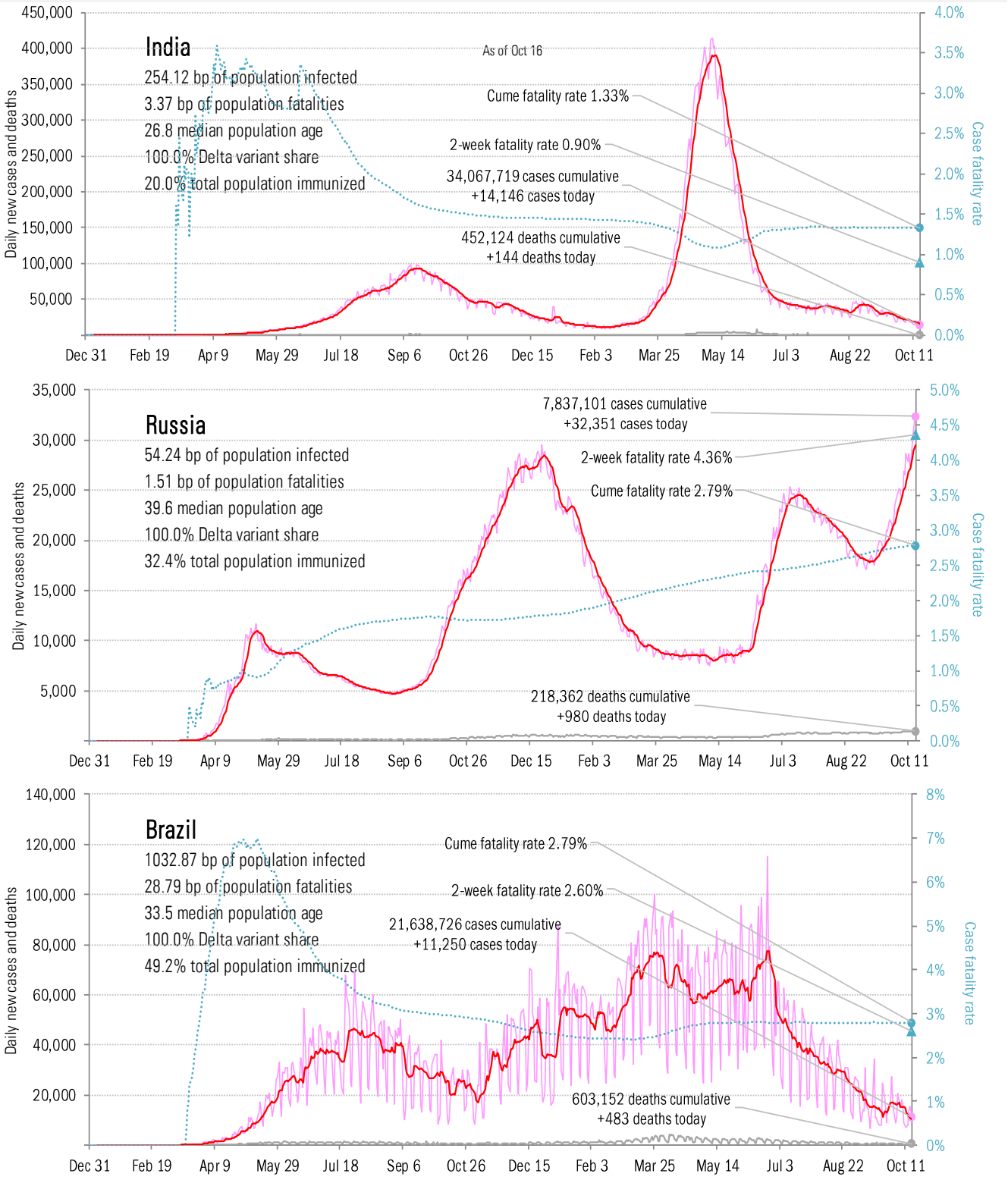
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

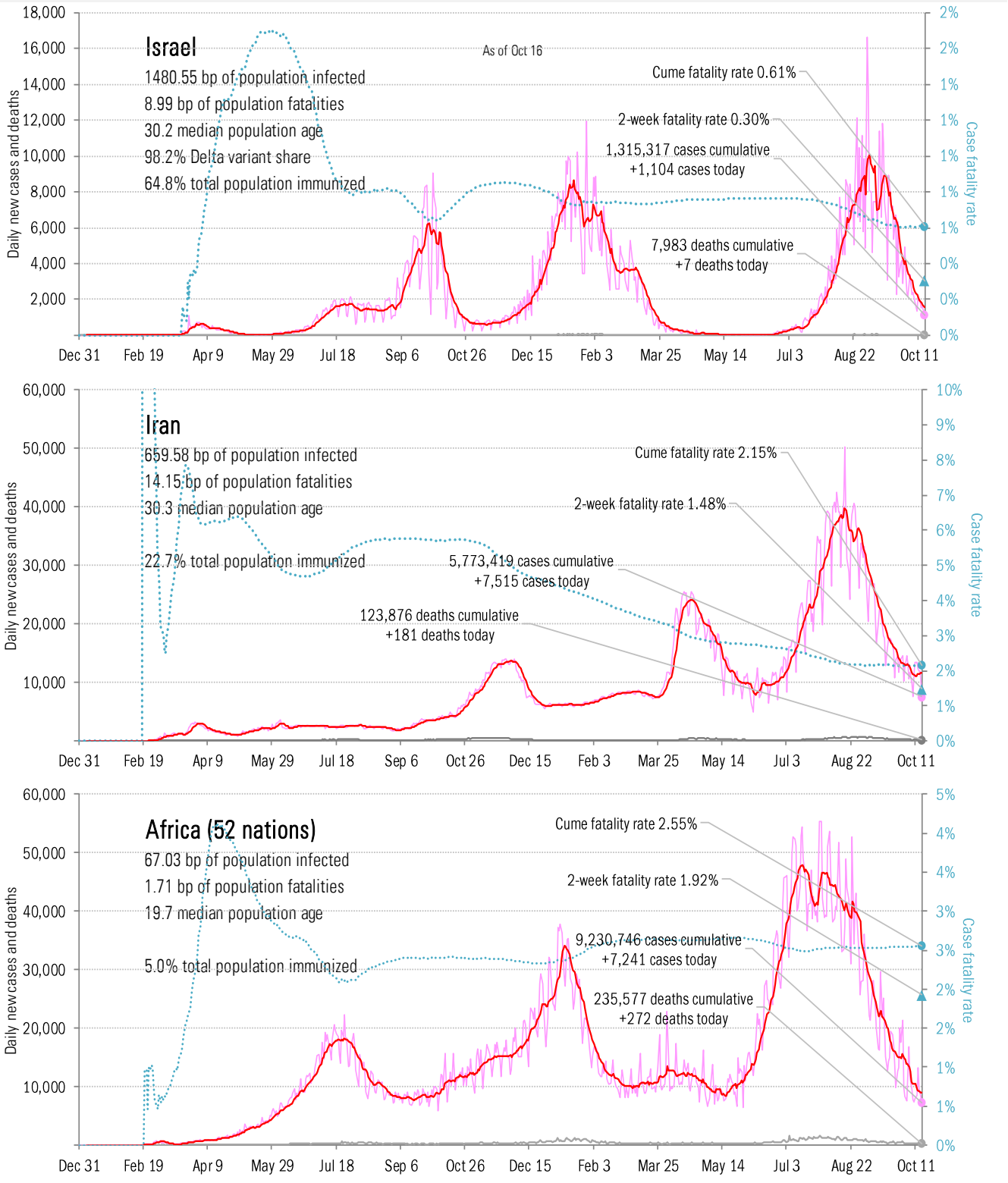
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

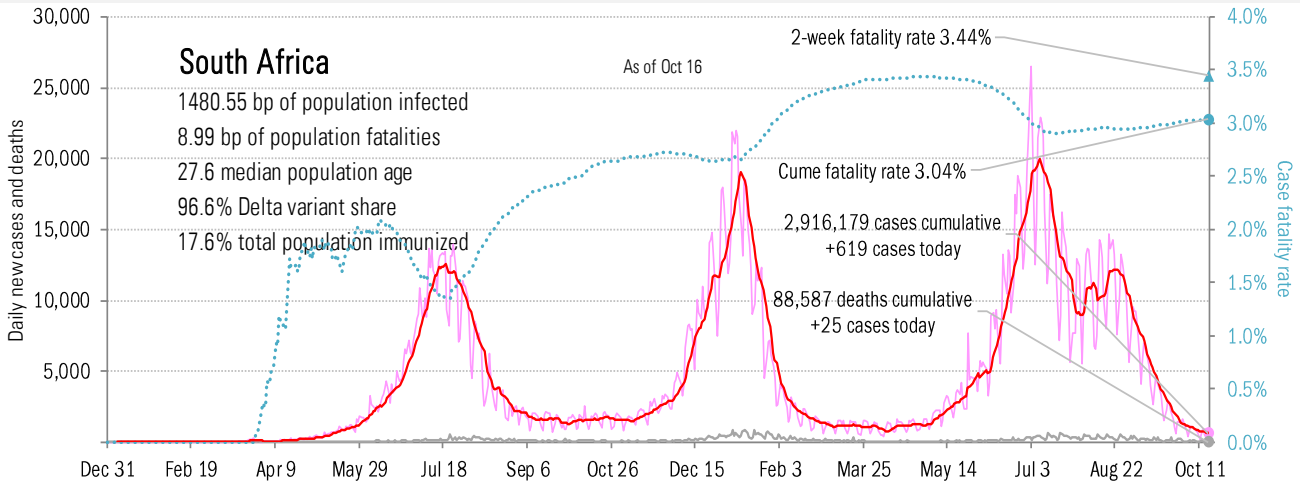
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations