Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

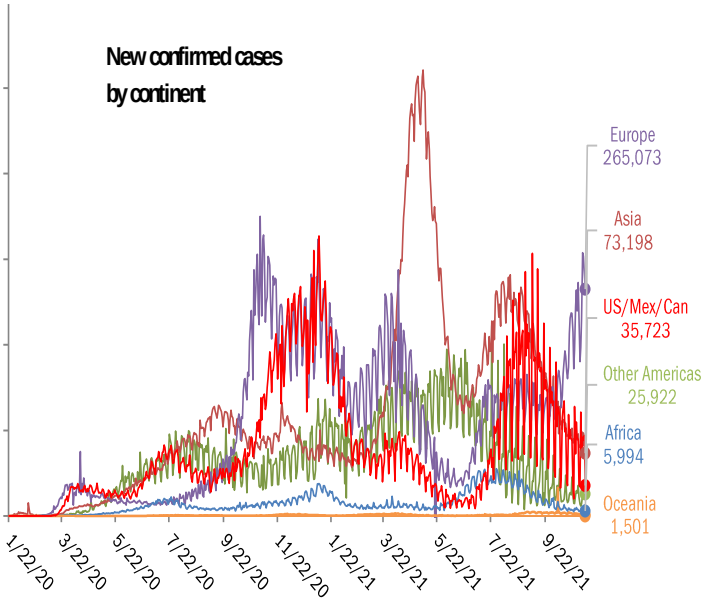
Sunday, November 7, 2021

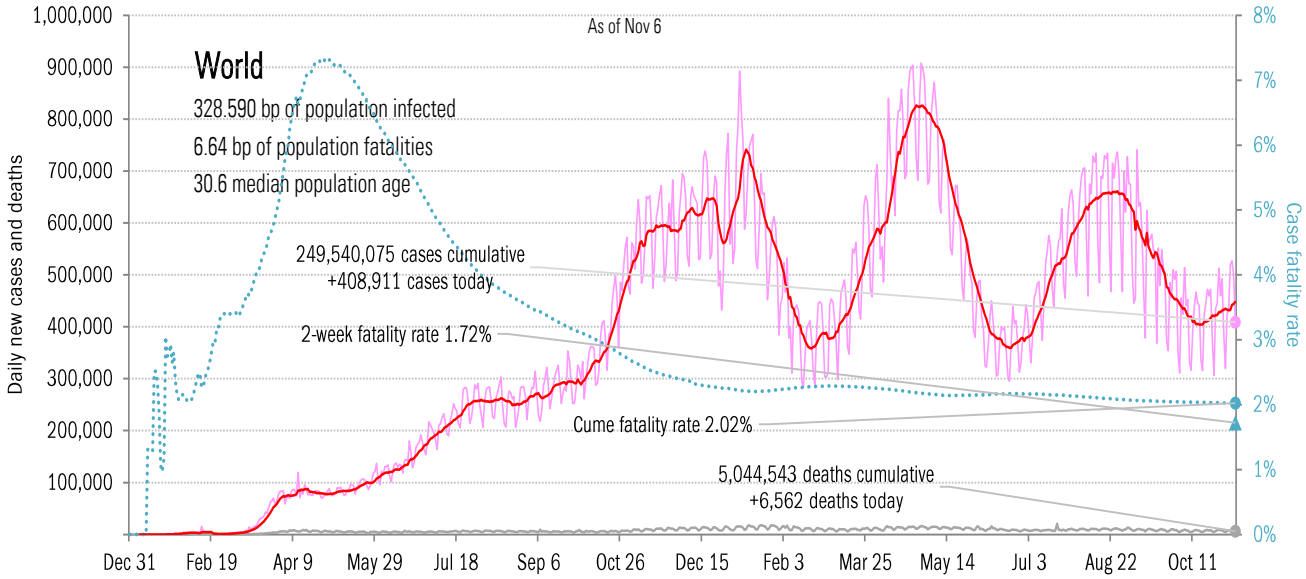
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Russia	+40,210	Russia	+1,152
United Kingdom	+30,454	Ukraine	+829
Turkey	+27,474	Mexico	+543
United States	+27,247	India	+526
Ukraine	+26,188	United States	+447
Germany	+23,788	Romania	+395
Poland	+15,195	Brazil	+328
Netherlands	+11,991	Turkey	+203
Brazil	+11,866	Poland	+186
Belgium	+10,915	United Kingdom	+155
	+225,328		+4,764
World	+408,911	World	+6,562
Top ten	55%	Top ten	73%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

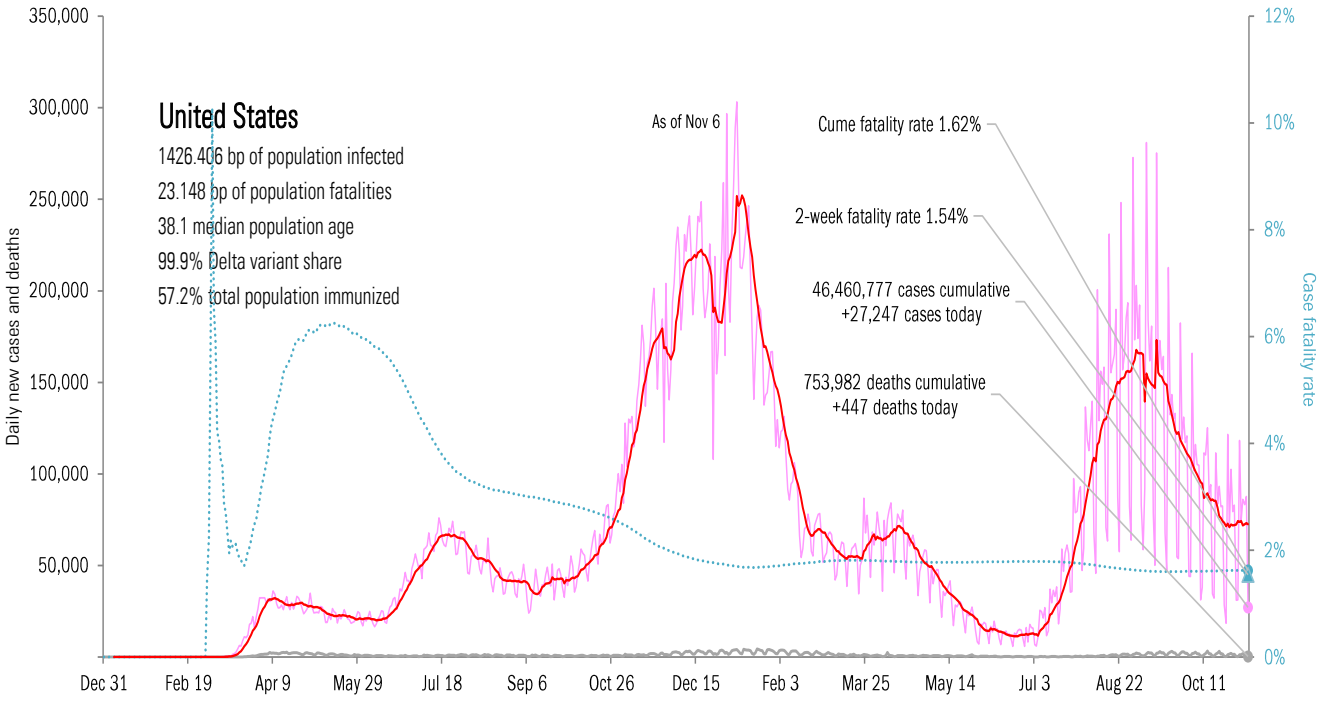
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
PA	+4,261	TX	+112	CO	+69	CA	4,959,561	CA	72,511	TX	376,331	MA	87%	NM	88%
AZ	+3,592	FL	+95	MI	+50	TX	4,260,063	TX	71,914	FL	319,419	RI	86%	KY	87%
IA	+2,944	AZ	+60	AZ	+29	FL	3,700,373	FL	60,038	CA	312,432	PA	85%	CO	86%
OH	+2,791	AL	+48	MN	+26	NY	2,581,256	NY	56,660	NY	165,001	MD	84%	TX	85%
TX	+2,448	PA	+42	WI	+21	IL	1,712,986	PA	31,897	GA	160,149	WA	83%	NV	84%
CA	+1,616	CA	+22	GA	+16	GA	1,641,036	GA	29,483	OH	124,927	MI	83%	AL	84%
FL	+1,500	NJ	+18	KS	+16	PA	1,589,737	IL	28,381	PA	118,230	NY	82%	MA	84%
MO	+1,463	AR	+11	MA	+16	OH	1,567,834	NJ	28,080	KY	111,721	MN	82%	ID	84%
NJ	+1,403	MD	+9	PA	+15	NC	1,489,653	OH	25,067	IL	105,445	CT	82%	MI	84%
WV	+866	MO	+7	IA	+14	MI	1,309,655	MI	23,975	MI	92,947	MO	81%	MN	82%
	+22,884		+424		+272		24,812,154		428,006		1,886,602				
All states	+27,247		+447		+87	All states	46,460,777		753,982		3,375,648	All states	70%		67%
Top ten	84%		95%		313%	Top ten	53%		57%		56%	Median	76%		78%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-12,159	OH	-304	OH	-41	AK	+10 bp
FL	-6,561	FL	-178	NE	-30	CA	+10 bp
NY	-4,860	CA	-101	UT	-23	CO	+10 bp
MN	-3,354	MI	-96	OK	-22	DC	+10 bp
CO	-3,310	GA	-90	KY	-20	DE	+10 bp



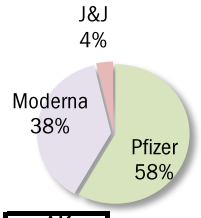
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	441,417,569				+1.476 million
Boosters	23,575,723				+0.924 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	228,948,445	69%	198,649,207	59%	+0.205 million
Age 12 to 17	14,264,051	60%	11,985,747	50%	+0.015 million
Age 18 to 64	158,063,318	78%	137,232,634	67%	+0.149 million
Age 65 and over	55,456,513	101%	48,504,390	89%	+0.040 million

Immunity	Full	Partial
US	57.2%	66.4%
UK	67.2%	73.6%
France	68.2%	76.0%
Spain	80.0%	81.5%
Germany	66.5%	69.1%
Italy	72.0%	77.4%
Australia	66.8%	74.8%
Israel	65.3%	71.0%
Canada	74.8%	78.6%
Japan	73.4%	78.1%
Africa	6.2%	9.2%
India	24.4%	53.1%
Brazil	57.8%	75.8%
China	74.3%	80.0%

Global data differs due to sources, timing



State

At least partial immunity as % population

Full immunity as % population

Best

Middle

Worst

Every American >18 immunized in

42 days

by Dec 18, 2021

71.9% of population >18 immunized

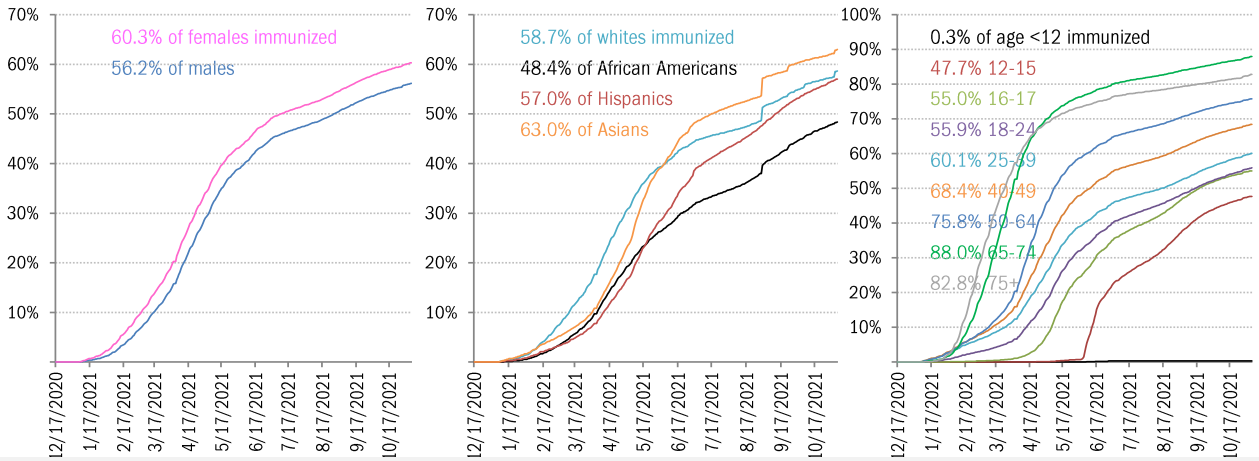
16.6% previously tested positive

88.5% vs 60% adult herd immunity

As of Nov 6

AK					WI				ME
59.9%					63.1%				77.5%
53.0%					58.6%				71.0%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
69.9%	49.5%	57.4%	55.5%	65.7%	66.2%	58.6%		74.9%	80.3%	78.5%
63.9%	44.2%	50.8%	47.8%	61.5%	60.8%	53.7%		67.1%	71.6%	63.3%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
68.8%	63.8%	51.4%	62.9%	60.1%	54.1%	56.1%	79.4%	75.6%	80.9%	
63.2%	53.3%	44.4%	53.3%	55.8%	50.0%	52.1%	61.0%	66.7%	70.0%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
75.1%	61.6%	68.1%	61.4%	57.2%	57.9%	49.1%	71.7%	73.3%	79.8%	78.8%
61.7%	54.1%	62.0%	56.5%	50.0%	51.0%	41.1%	63.5%	66.2%	71.0%	71.3%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	61.6%	72.7%	63.1%	58.4%	54.9%	65.3%	58.0%	75.9%	69.5%	
	53.4%	62.4%	53.5%	48.3%	48.0%	53.1%	50.3%	63.0%	60.2%	
			OK	LA	MS	AL	GA		
			60.1%	54.1%	52.4%	54.9%	57.3%		
			50.4%	47.9%	46.0%	45.0%	48.6%		
HI			TX					FL		PR
79.4%			61.7%					69.5%		82.5%
60.1%			53.6%					60.0%		73.8%

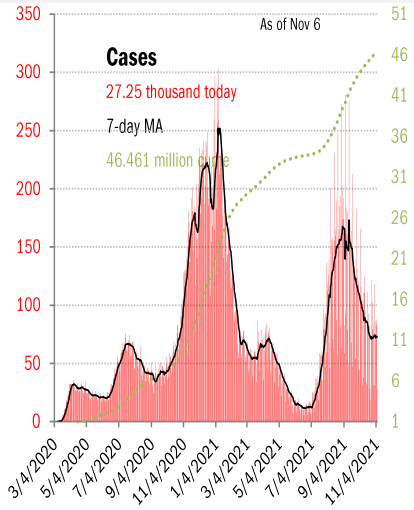
The demographics of US vaccination

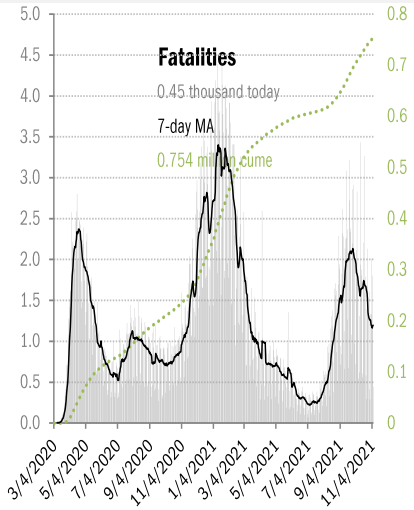


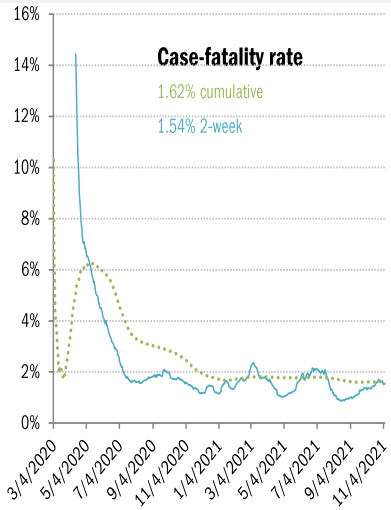
Source: CDC, CDC, Our World in Data, TrendMacro calculations

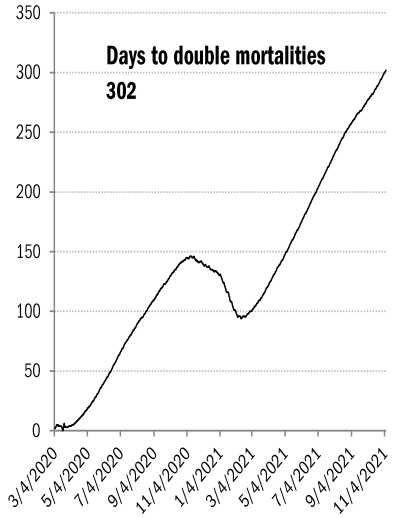
US deep-dive

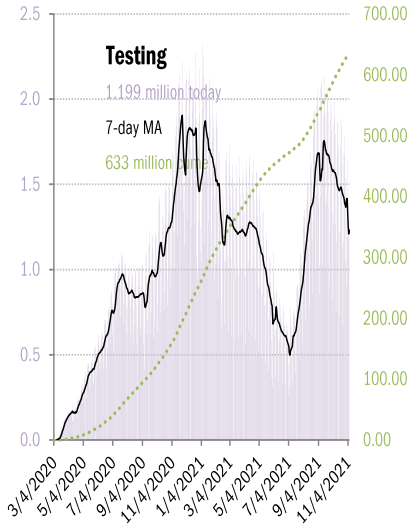
National and state-by-state data do not line up because of different sources

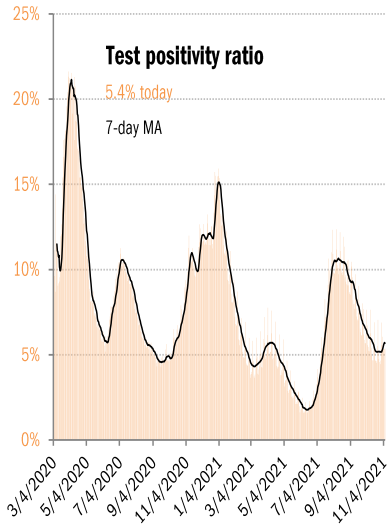


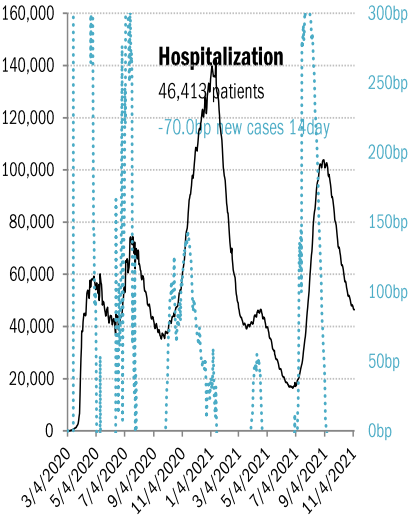


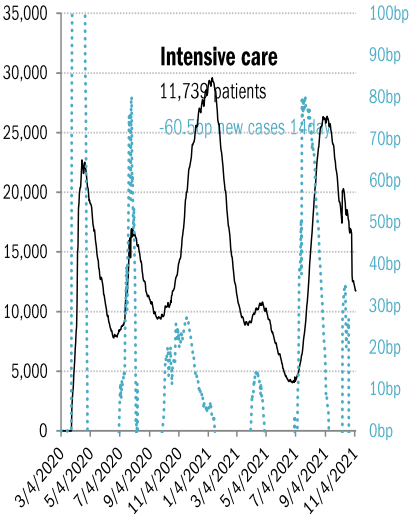


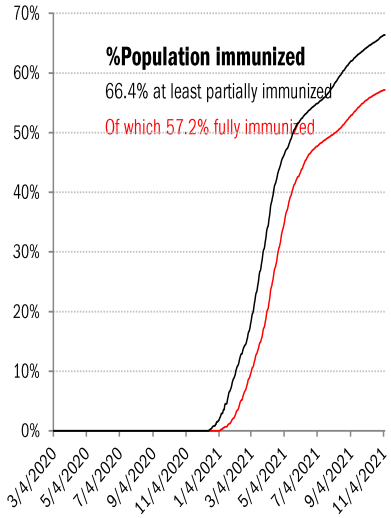












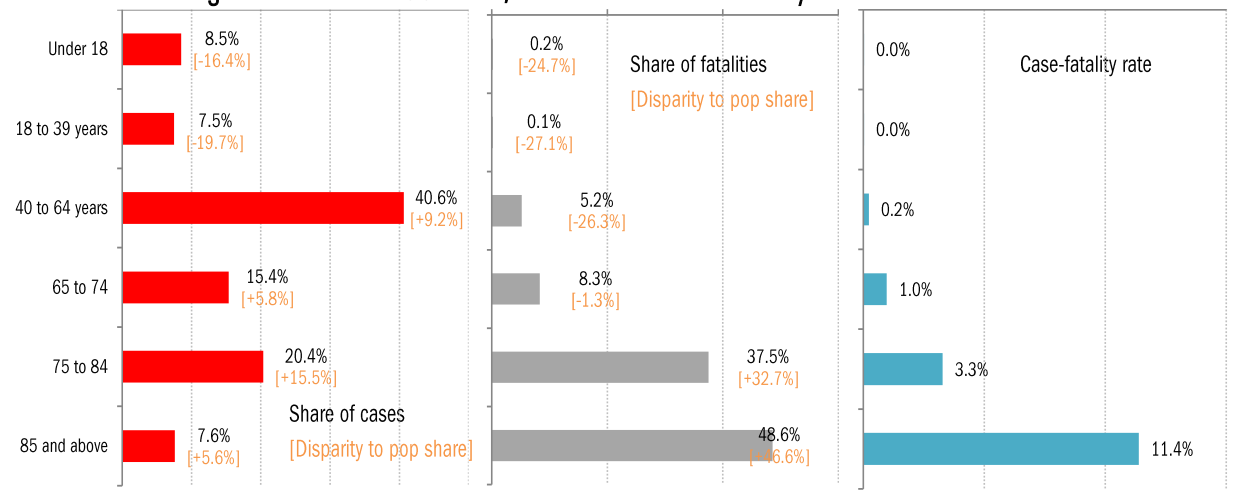
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

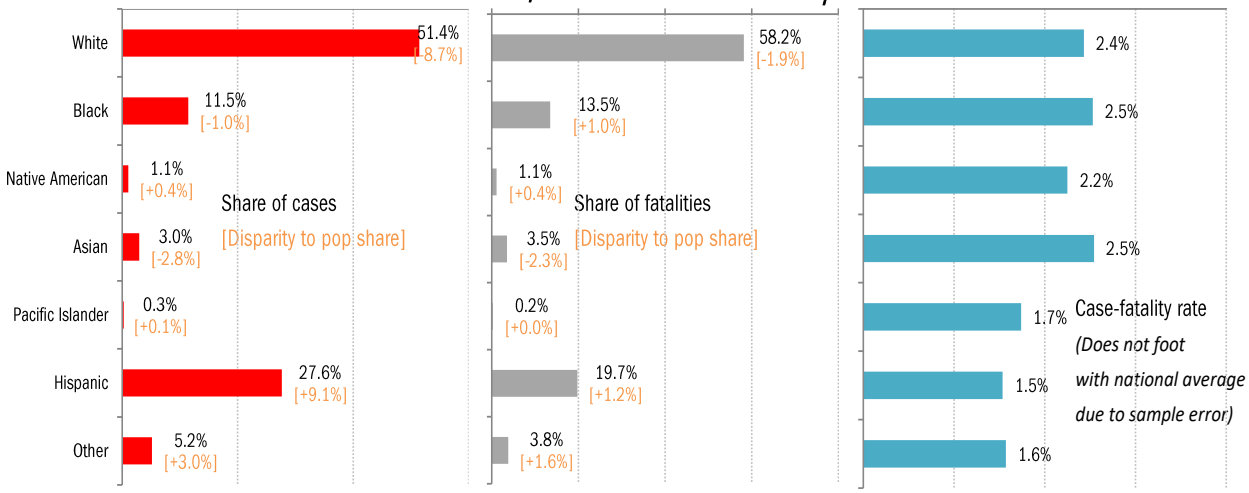
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



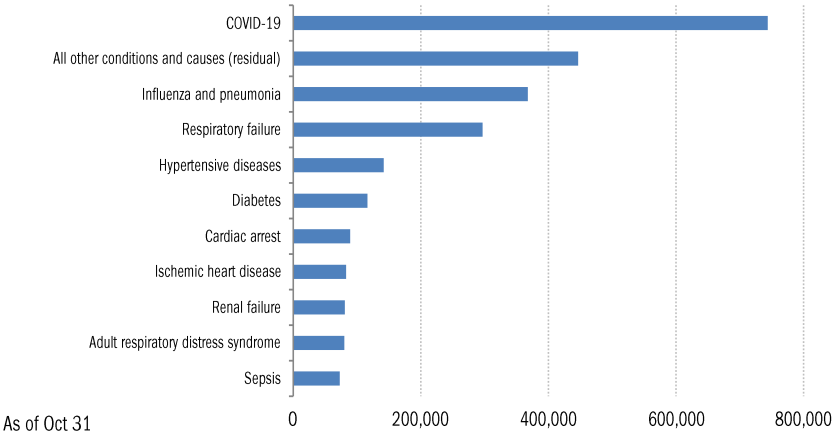
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Oct 31

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

An vaccinated woman refuses to sit next to an unvaccinated passenger on a plane
BitChute
November 3, 2021

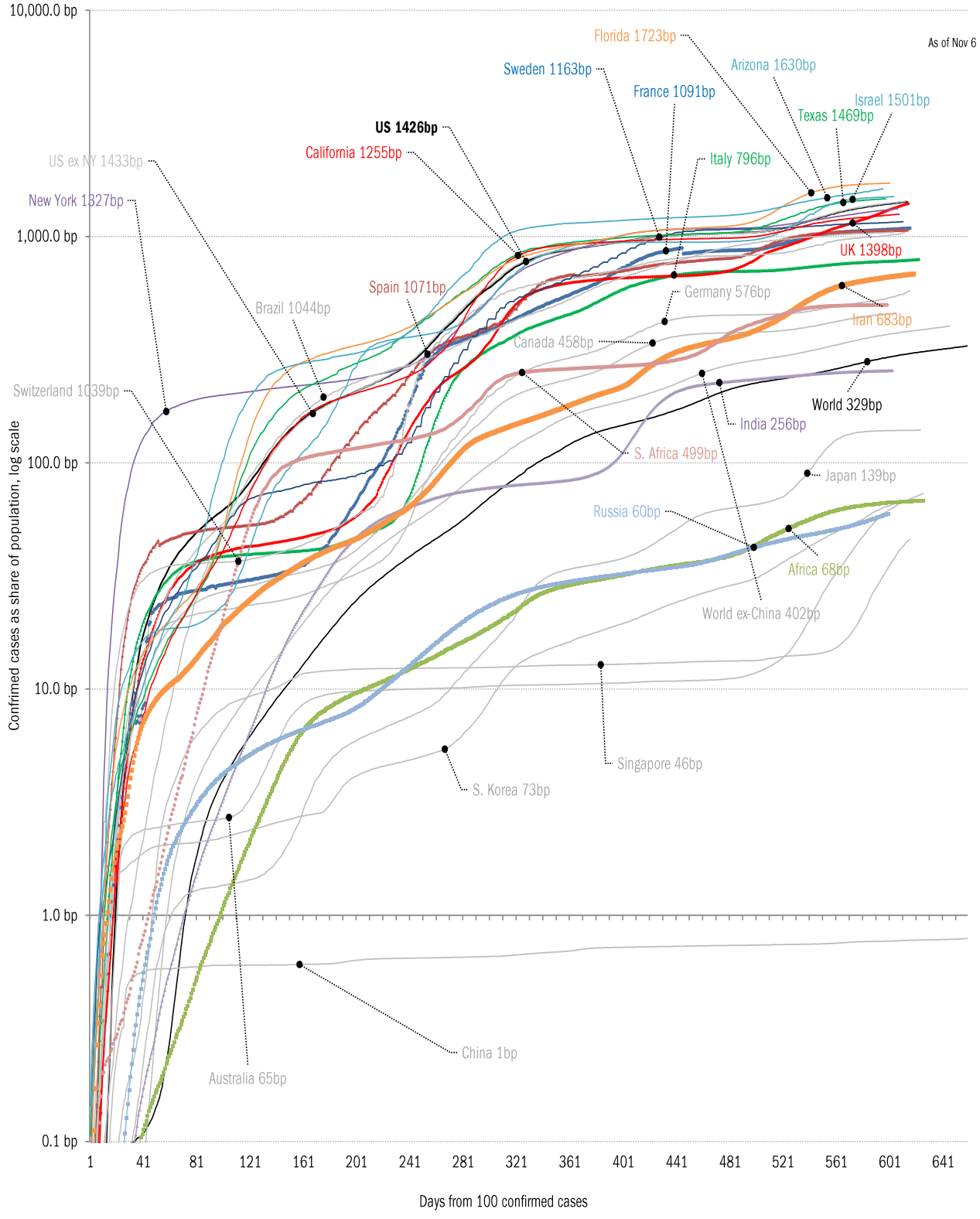
Queues, Covid and confused messaging plague COP26
Pilita Clark
Financial Times
November 5, 2021

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

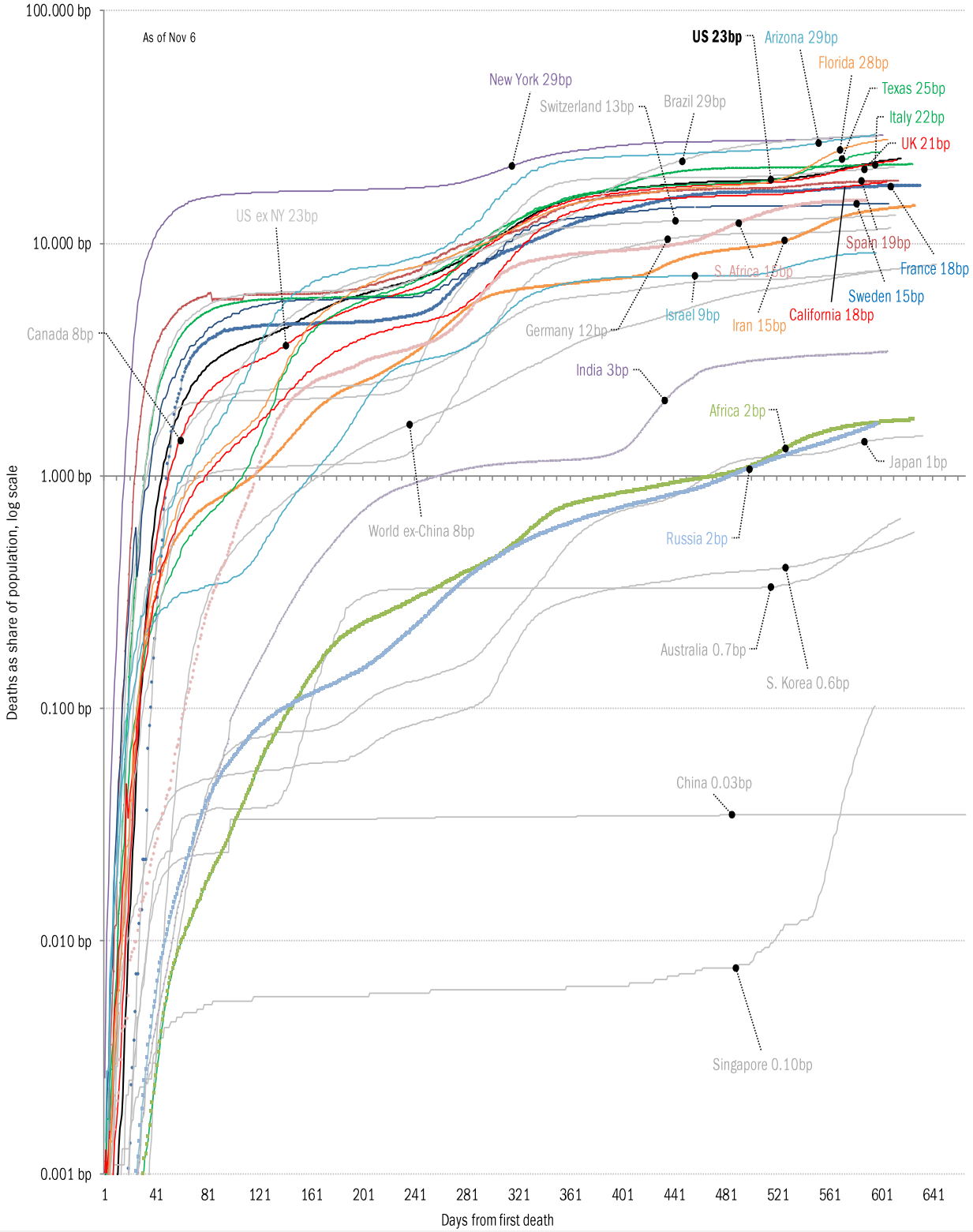
Share of infected population from first day with 100 confirmed cases, log scale



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

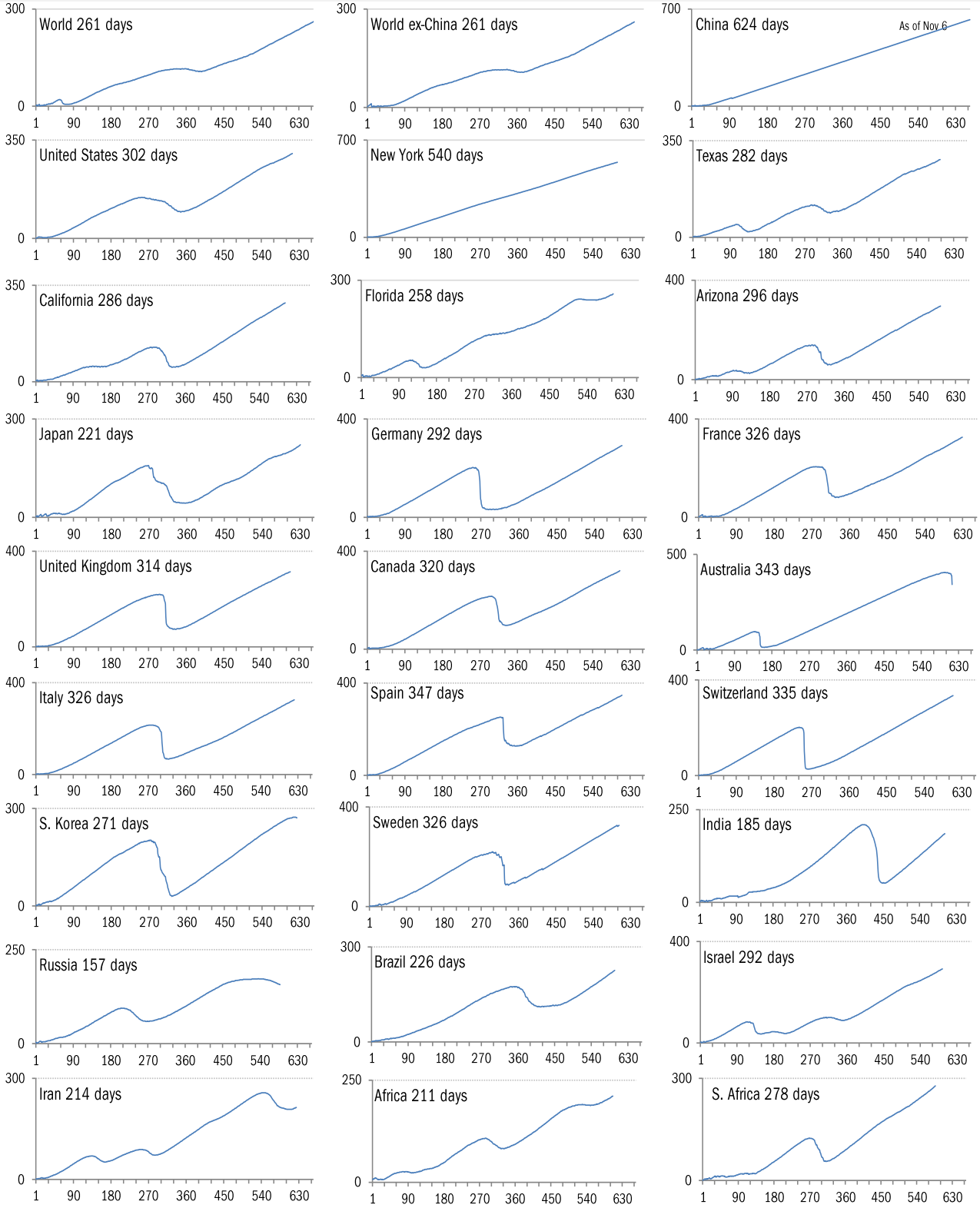


Source: Johns Hopkins, TrendMacro calculations

"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

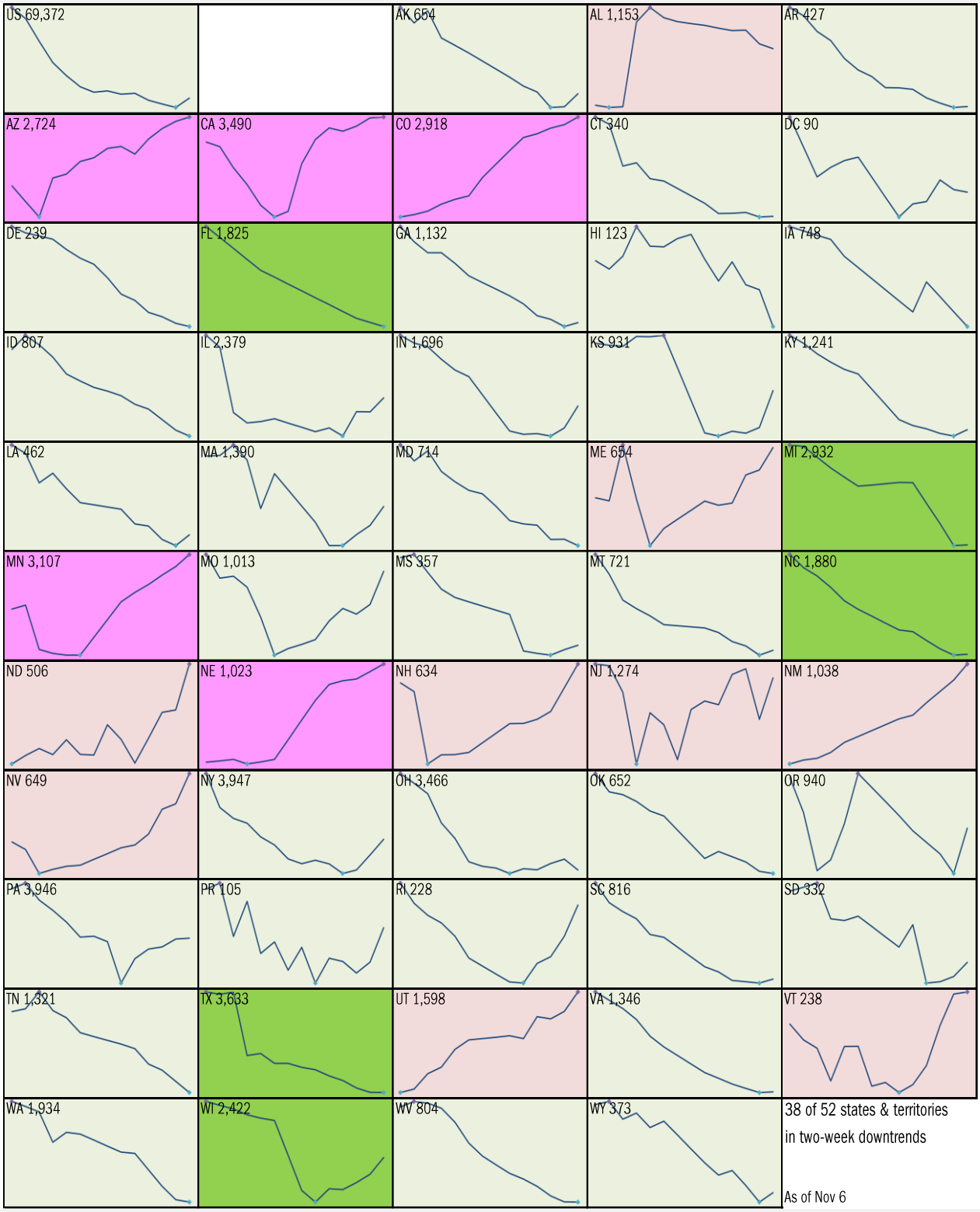


Source: Johns Hopkins, TrendMacro calculations

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

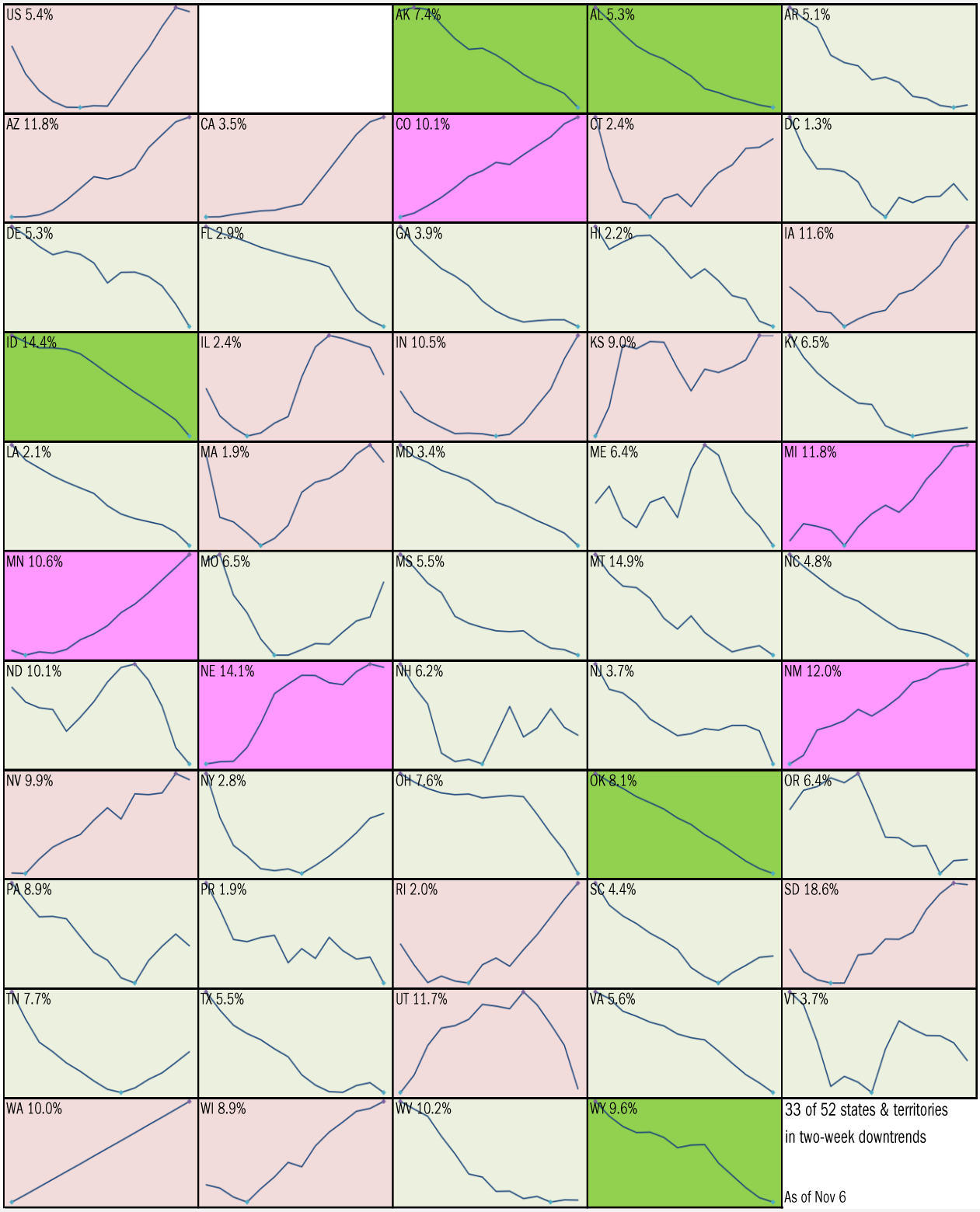


Source: Johns Hopkins, TrendMacro calculations

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

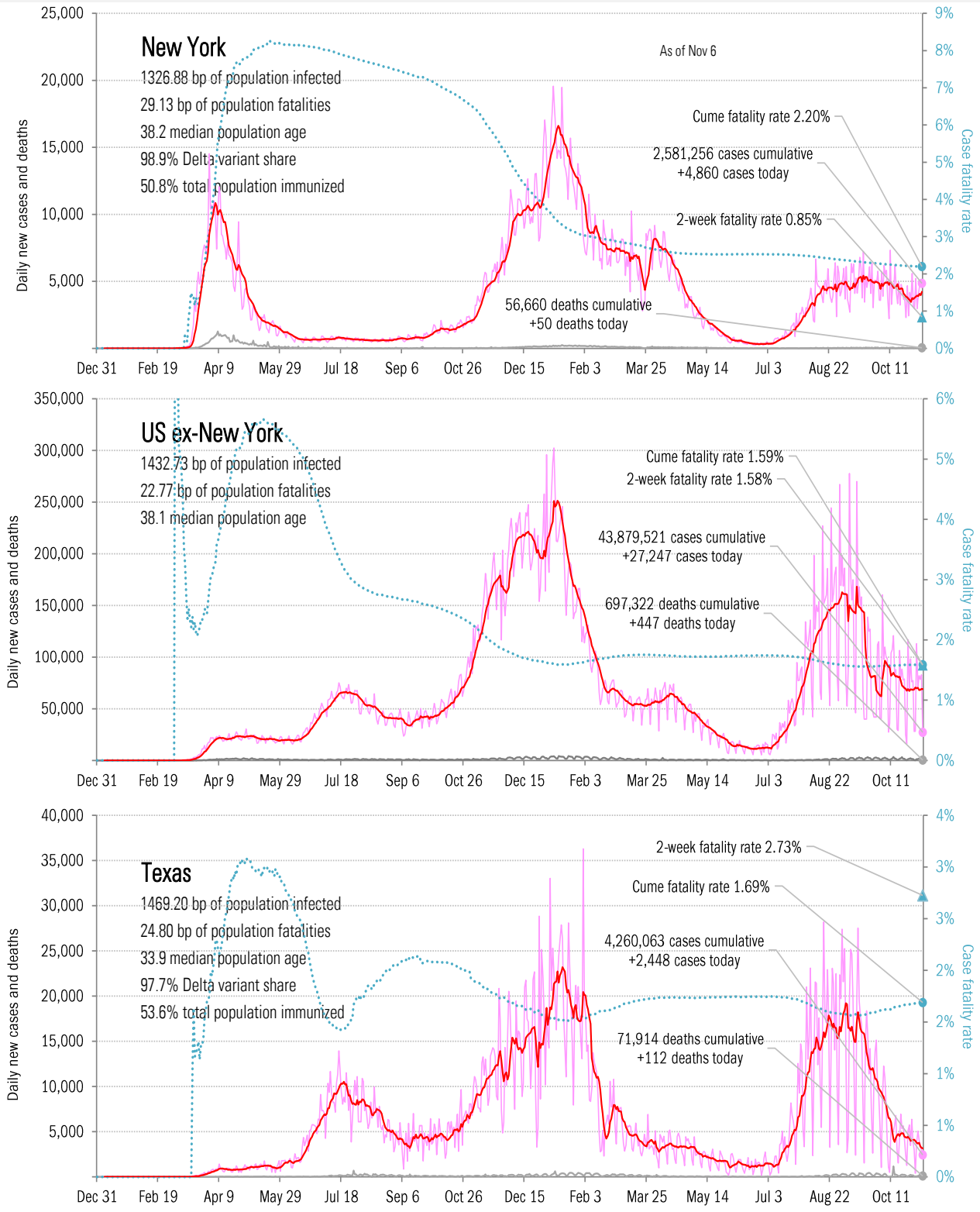
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

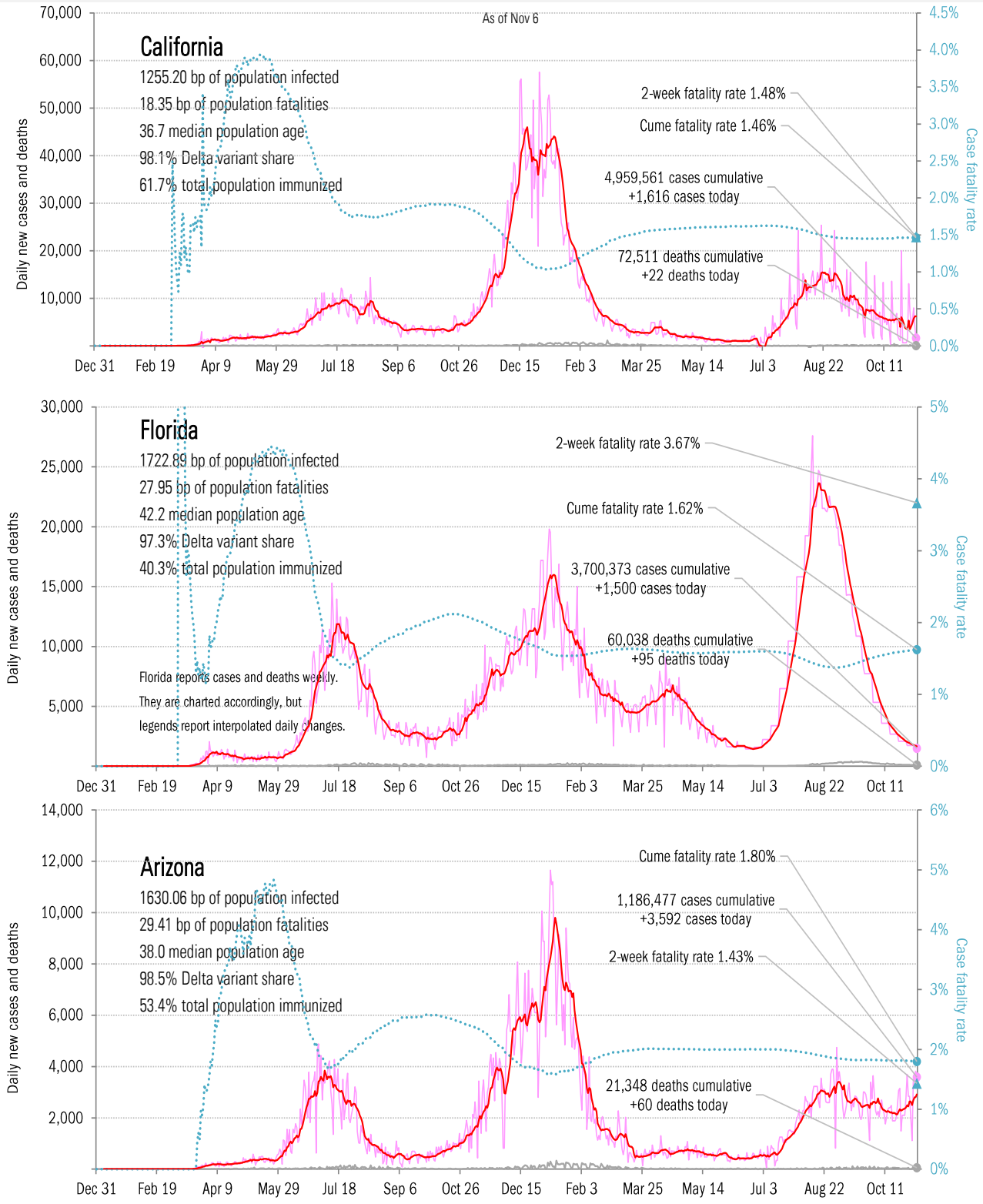
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

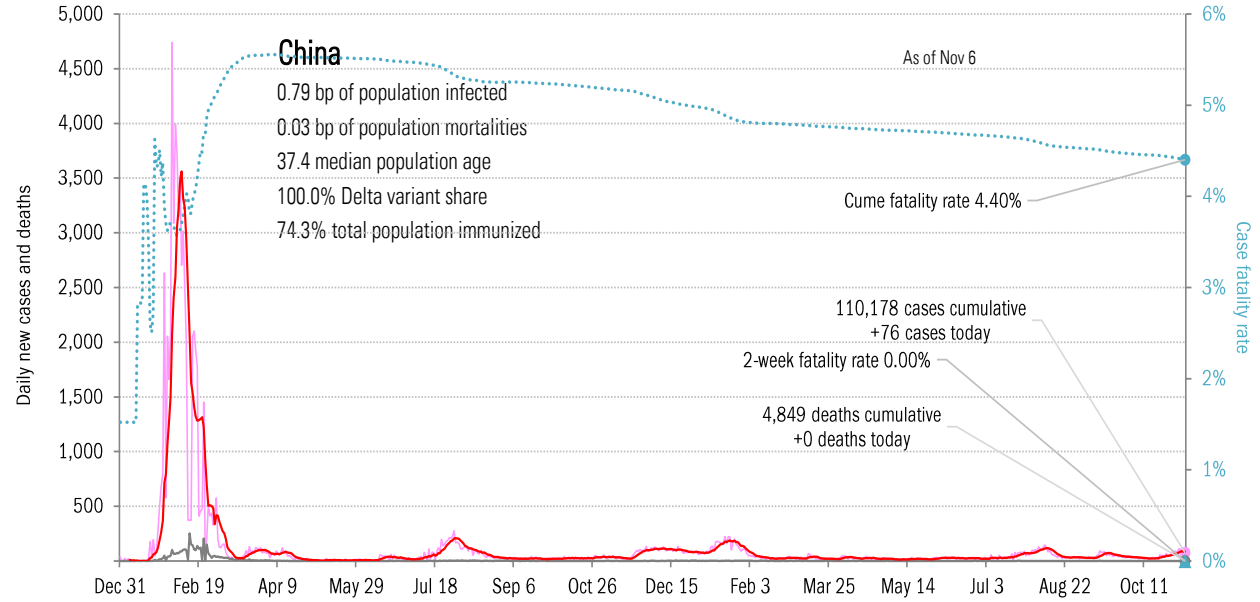
Cases: 7-day average and daily Deaths: Daily

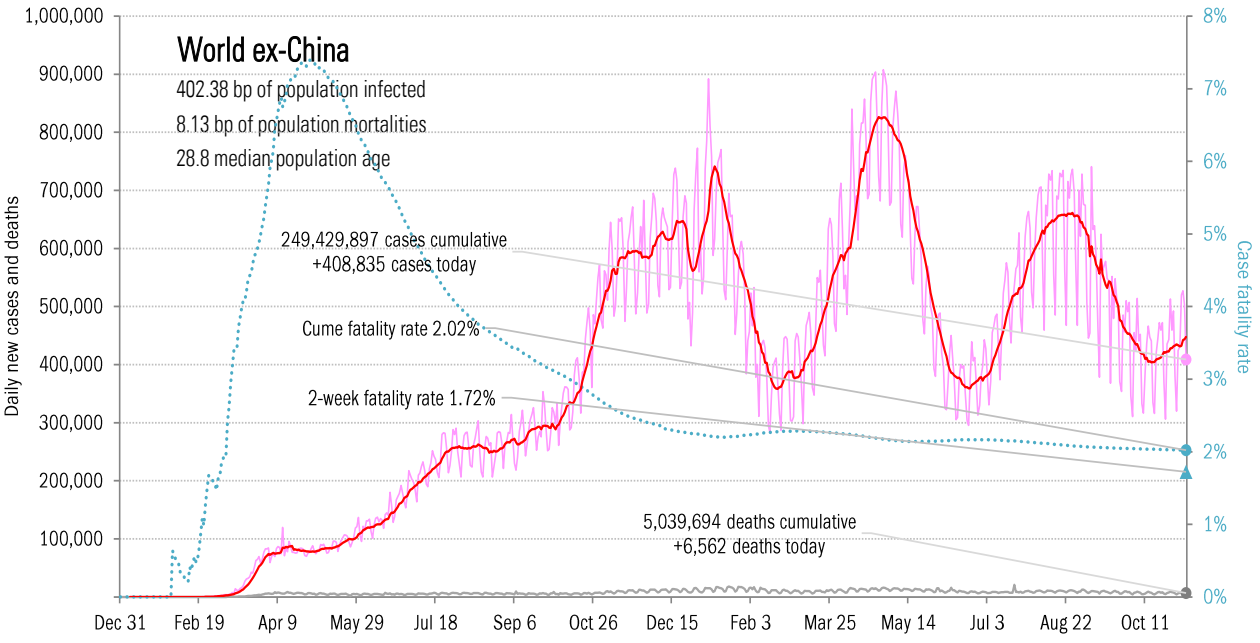


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

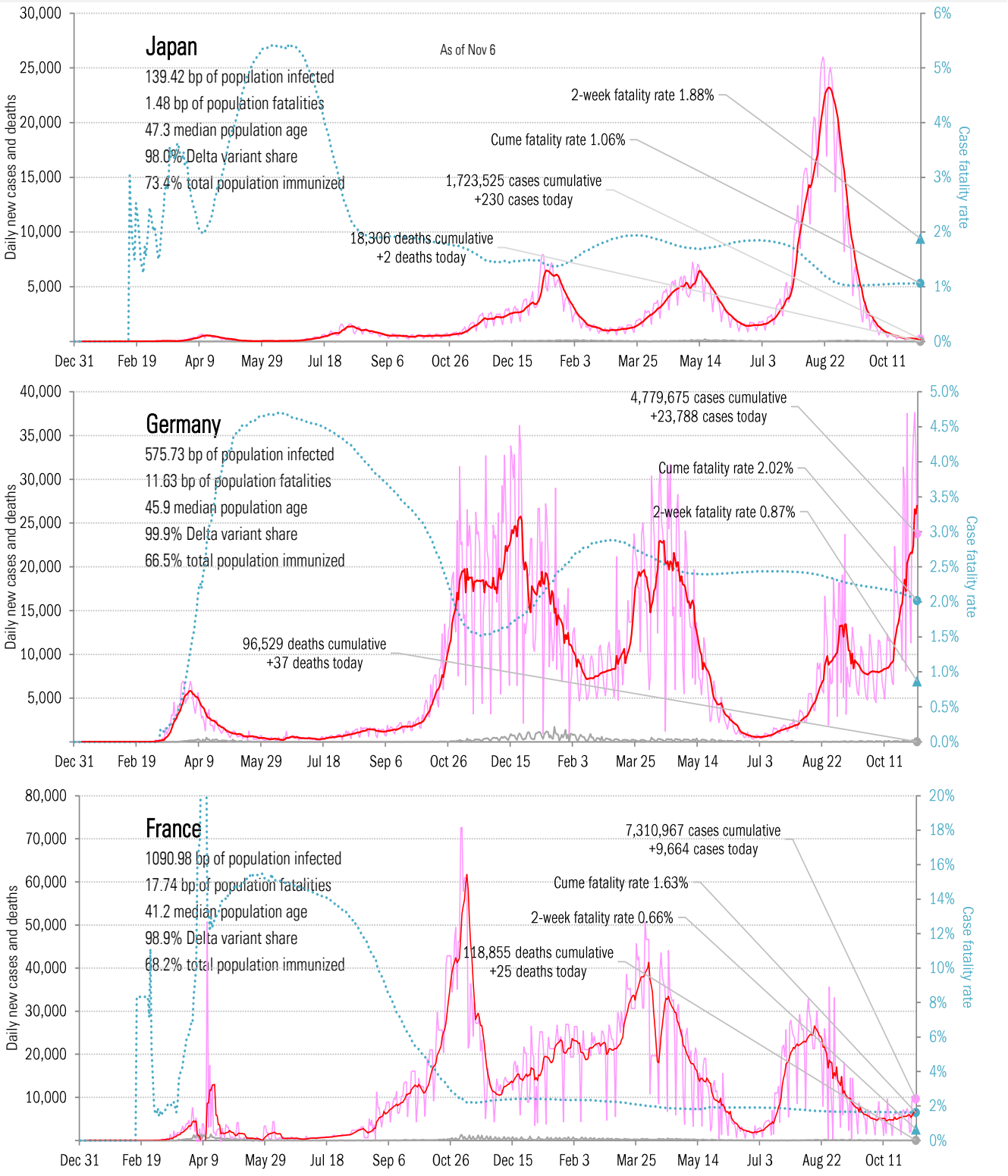




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

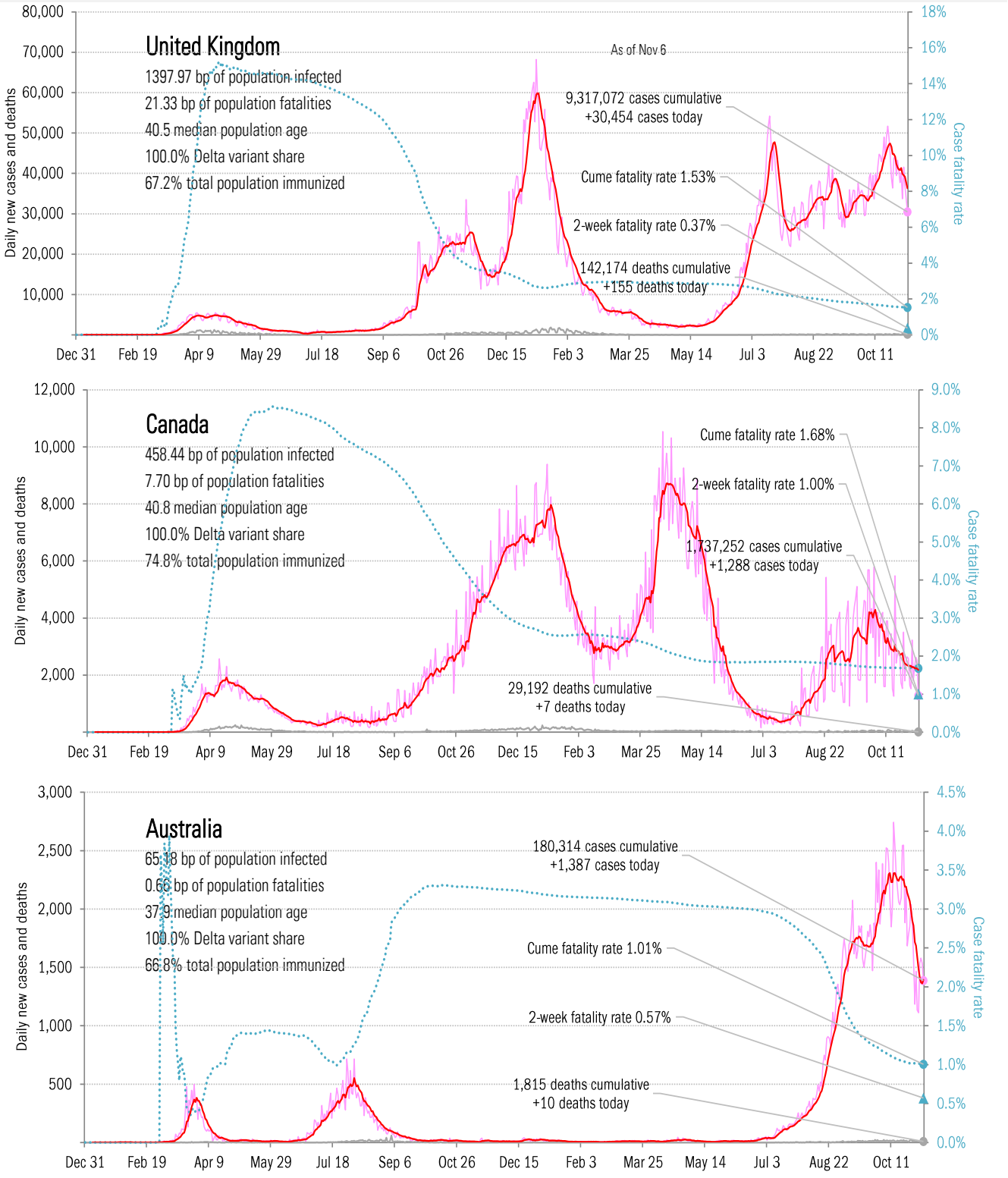
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

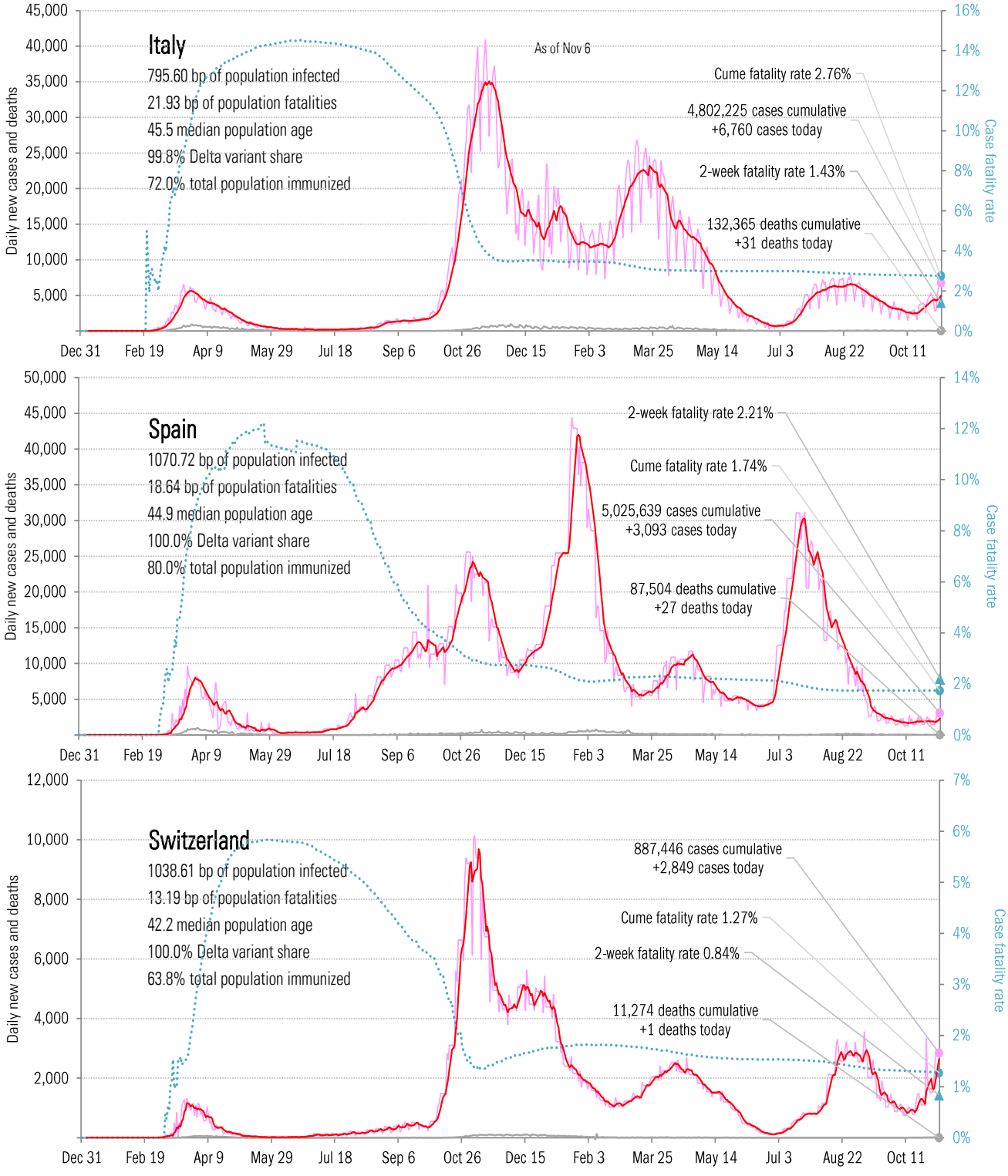
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

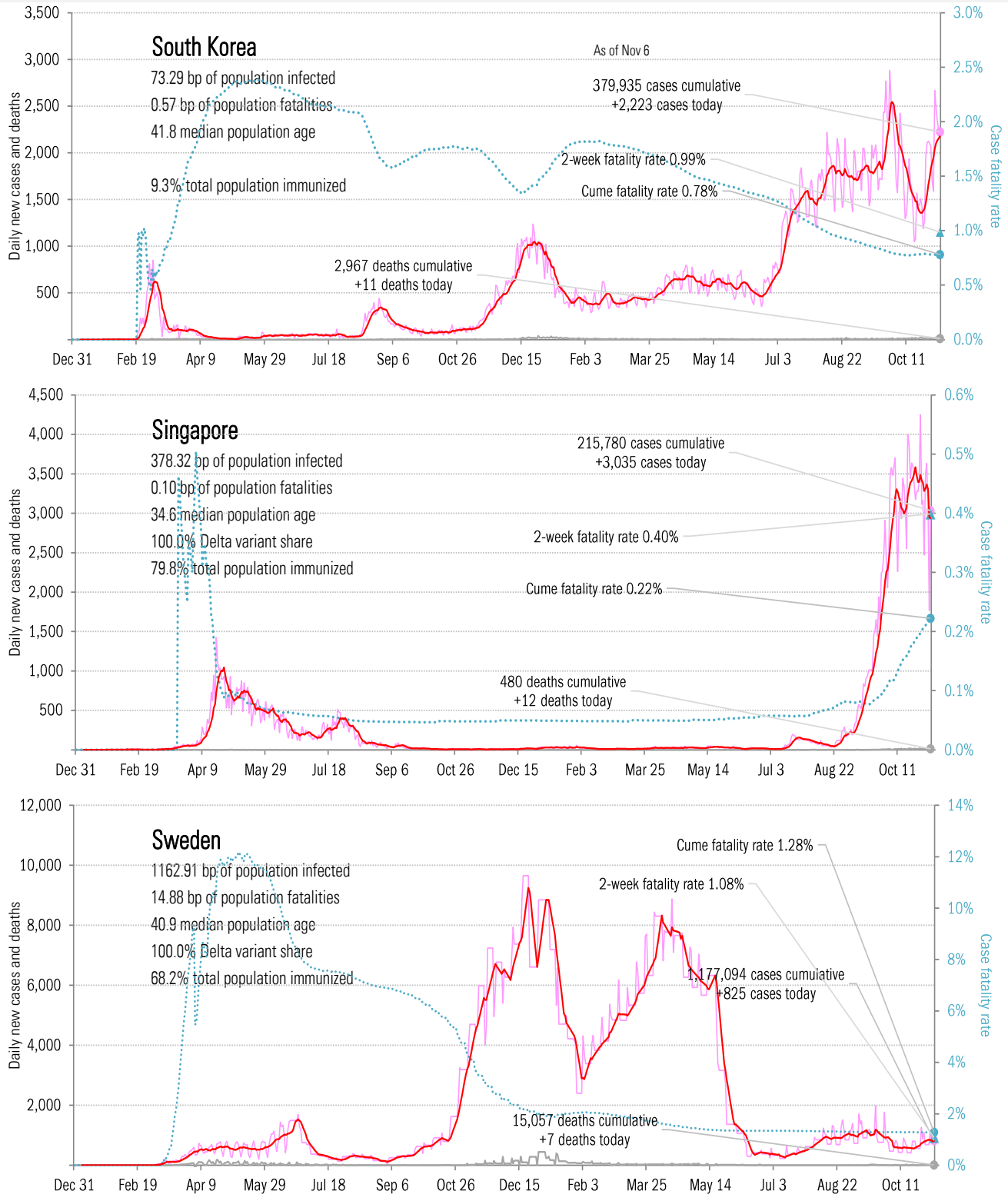
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

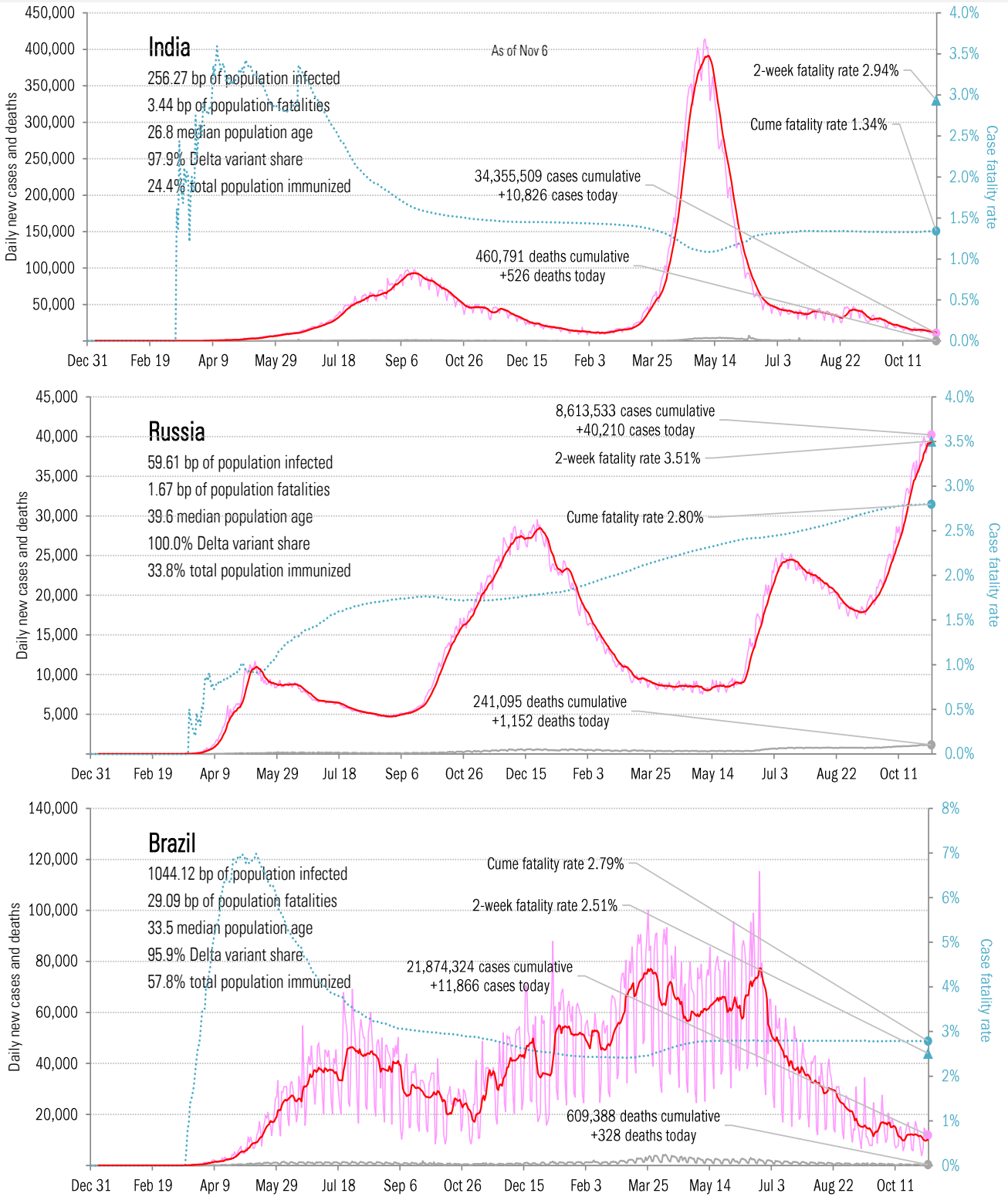
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

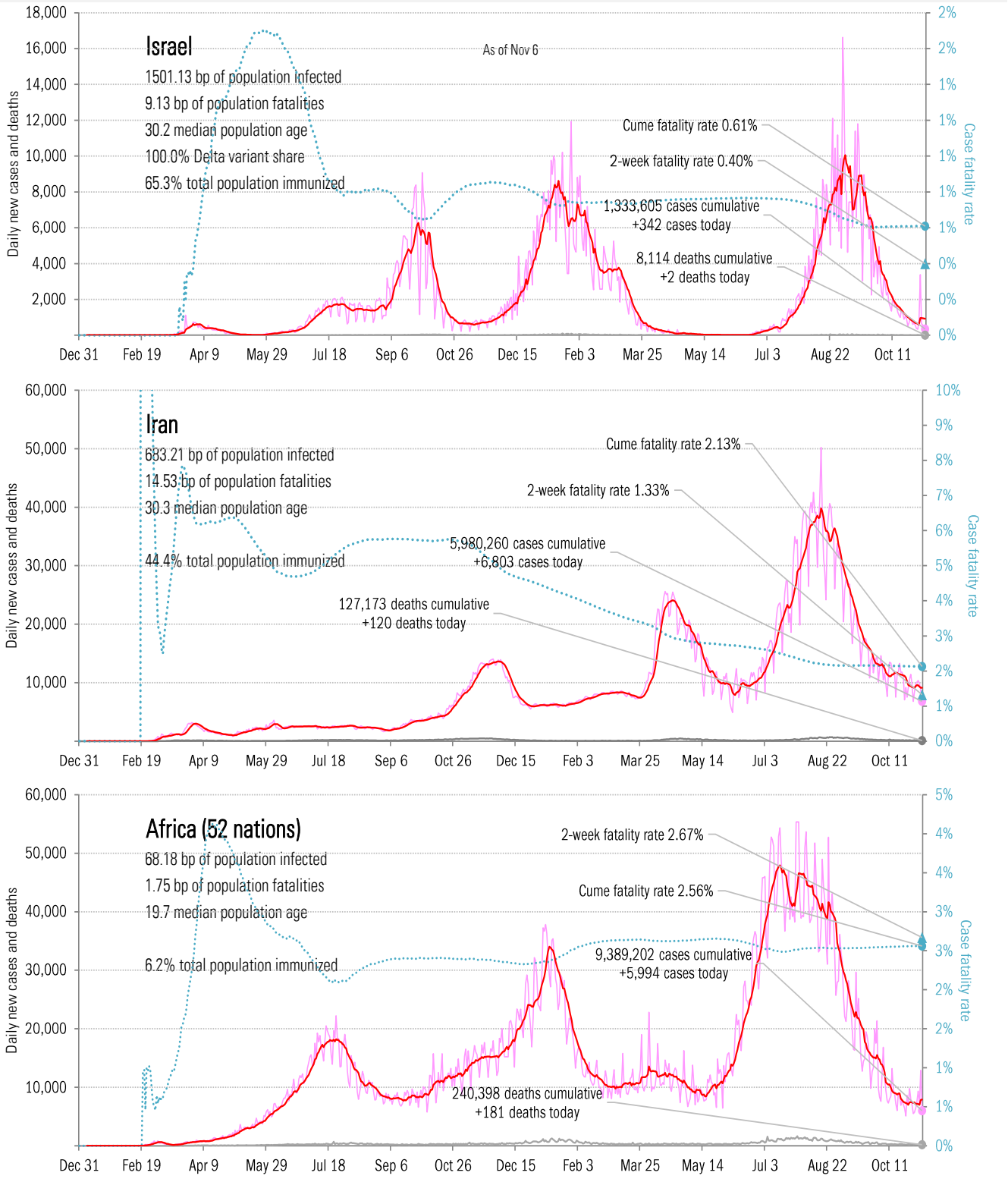
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

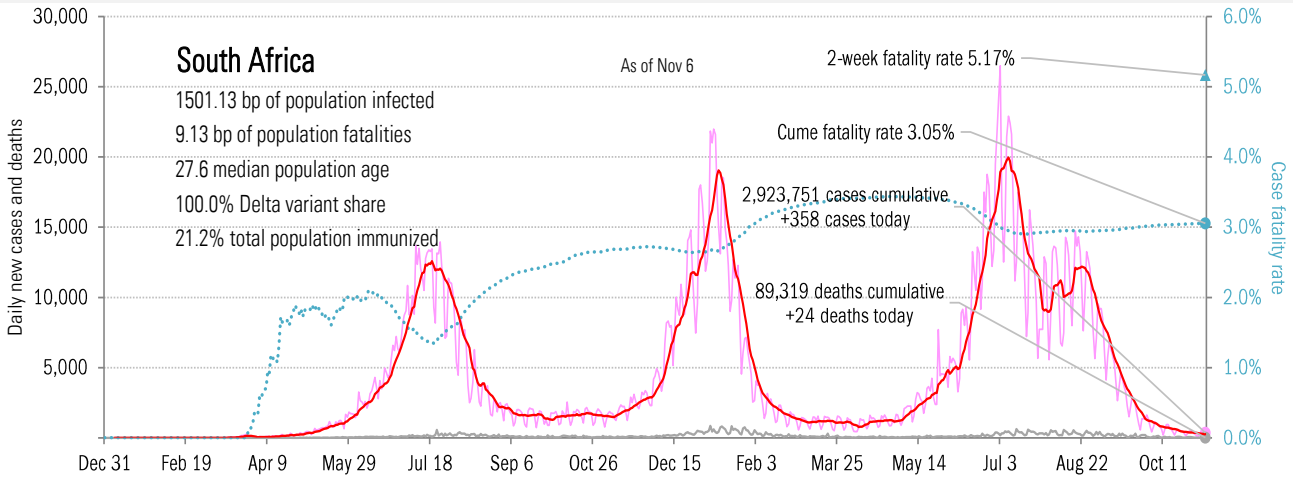
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations