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Data Insights: Covid-2019 Monitor

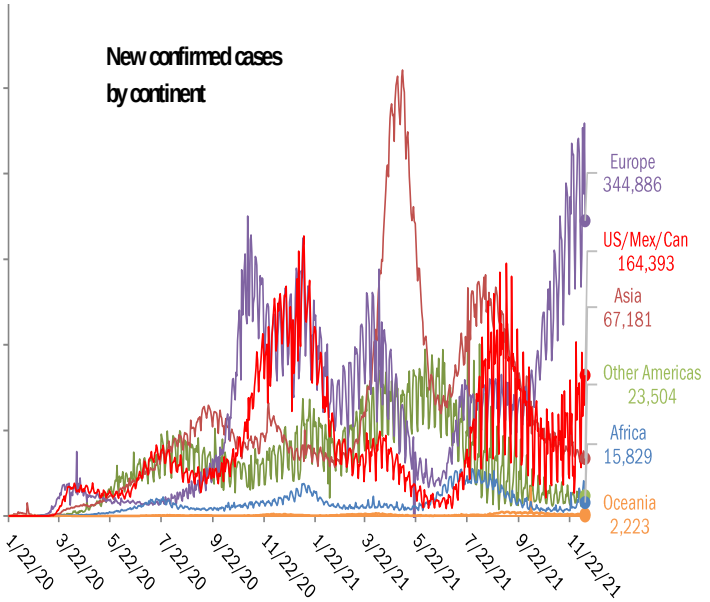
Saturday, December 11, 2021

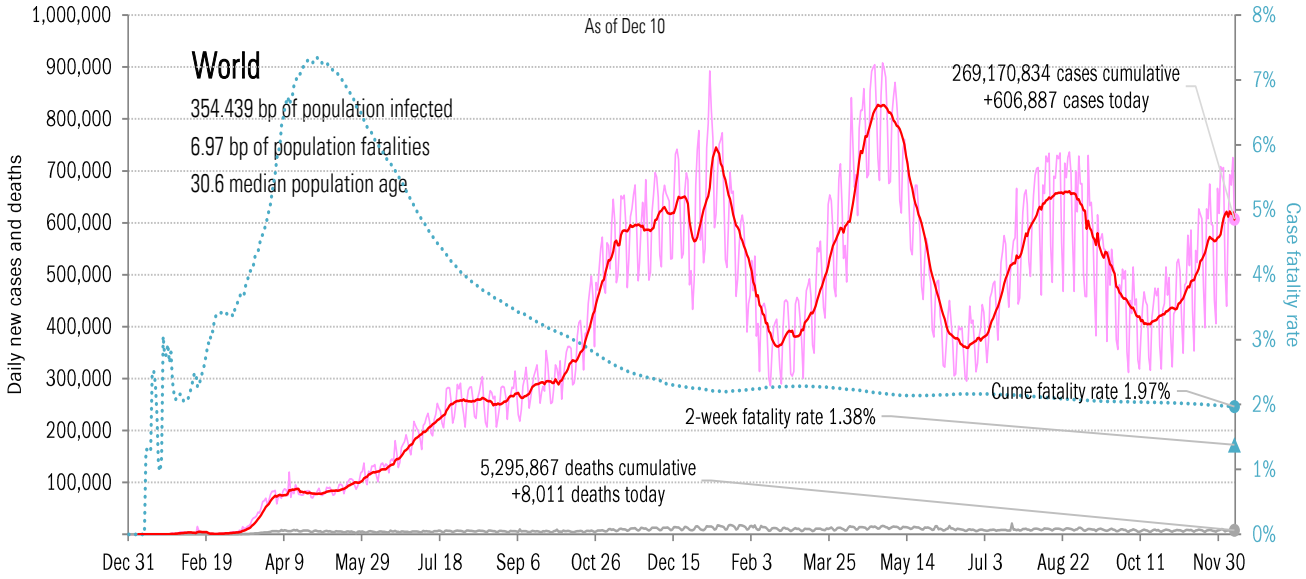
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	+161,165	United States	+2,142
United Kingdom	+58,527	Russia	+1,144
Germany	+53,296	Poland	+571
Russia	+30,383	Germany	+510
Poland	+24,988	Ukraine	+474
Italy	+20,490	India	+393
Turkey	+18,561	Vietnam	+216
Netherlands	+17,523	Turkey	+176
Spain	+17,095	Hungary	+166
Belgium	+15,245	Peru	+123
	+417,273		+5,915
World	+606,887	World	+8,011
Top ten	69%	Top ten	74%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

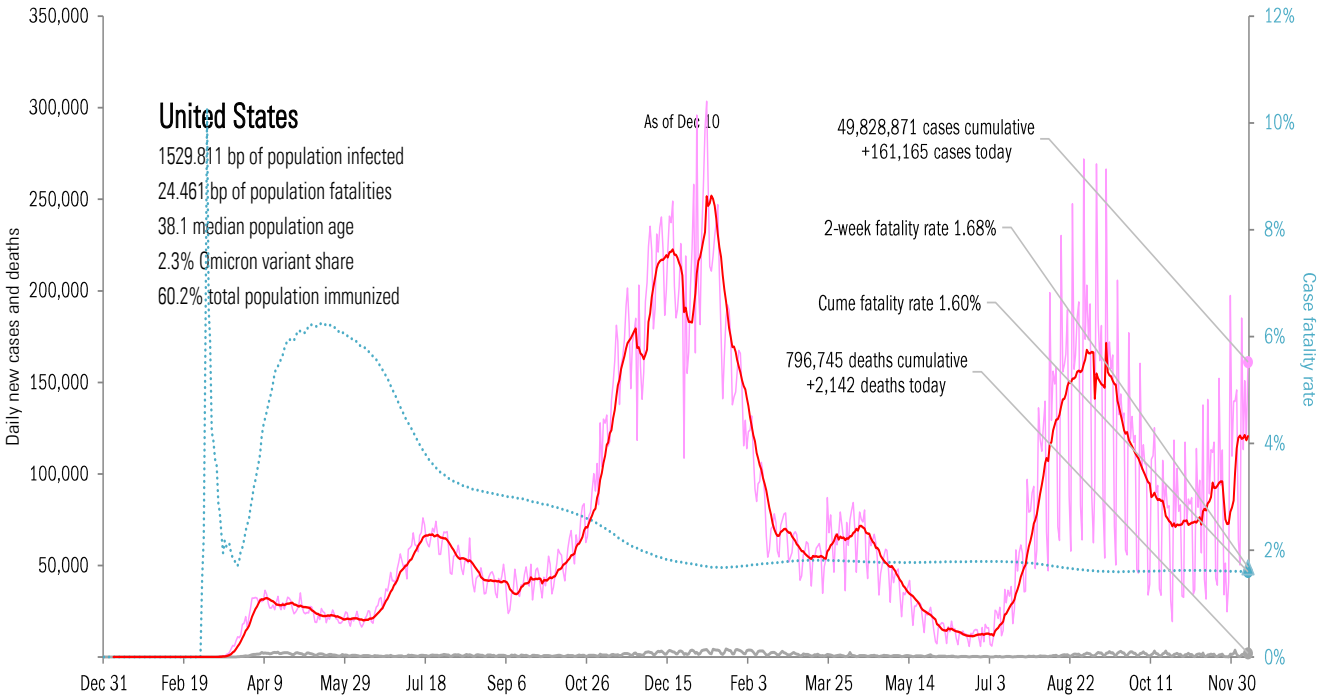
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TX	+15,077	CH	+360	GA	+93	CA	5,153,434	CA	75,247	TX	388,550	RI	89%	KY	93%
MI	+13,788	MI	+266	NJ	+77	TX	4,385,287	TX	74,555	FL	325,417	MA	87%	RI	91%
PA	+11,628	PA	+144	TX	+56	FL	3,749,474	FL	62,007	CA	324,386	PA	87%	AL	91%
NY	+11,327	TX	+103	WI	+55	NY	2,829,502	NY	58,072	NY	177,365	MI	86%	NM	90%
IL	+7,530	AZ	+93	CH	+49	IL	1,884,743	PA	34,415	GA	164,615	MD	86%	NE	88%
CH	+7,359	NY	+80	IL	+46	PA	1,818,299	GA	30,823	CH	141,206	MO	85%	NH	88%
WI	+6,781	CO	+73	MD	+46	CH	1,768,367	IL	29,234	PA	132,229	GA	85%	MO	87%
CA	+6,663	CA	+69	CK	+38	GA	1,678,746	NJ	28,543	KY	116,298	WV	84%	TX	87%
MA	+5,666	KY	+63	MA	+35	MI	1,567,578	CH	27,371	IL	114,669	ND	84%	DE	87%
NJ	+5,463	KS	+62	CA	+34	NC	1,566,269	MI	26,914	MI	108,806	WA	84%	MI	87%
	+91,282		+1,313		+529		26,401,699		447,181		1,993,541				
All states	+161,165		+2,142		+724	All states	49,828,871		796,745		3,592,420	All states	70%		67%
Top ten	57%		61%		73%	Top ten	53%		56%		55%	Median	79%		82%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
FL	-4,706	FL	-125	MI	-173	NY	+60 bp
IL	-1,771	IA	-105	PA	-133	FL	+30 bp
CH	-1,141	CA	-29	IN	-93	MP	+30 bp
NC	-547	IL	-19	MO	-90	DC	+20 bp
NV	-410	WA	-19	IL	-83	MA	+20 bp



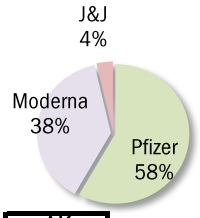
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	493,435,876				+3.175 million
Boosters	52,598,729				+1.868 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	244,051,245	73%	206,386,978	62%	+0.566 million
Age 12 to 17	14,850,021	62%	12,461,038	52%	+0.023 million
Age 18 to 64	165,321,295	81%	141,469,214	69%	+0.222 million
Age 65 and over	57,634,091	100%	49,360,606	90%	+0.072 million

Immunity	Full	Partial
US	60.2%	71.7%
UK	68.4%	75.1%
France	70.8%	77.3%
Spain	80.7%	82.3%
Germany	68.9%	71.9%
Italy	73.3%	78.8%
Australia	74.6%	78.3%
Israel	62.3%	68.9%
Canada	76.7%	82.1%
Japan	77.7%	79.4%
Africa	7.9%	12.3%
India	36.0%	58.2%
Brazil	65.1%	77.1%
China	77.9%	84.8%

Global data differs due to sources, timing



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

Best
Middle
Worst

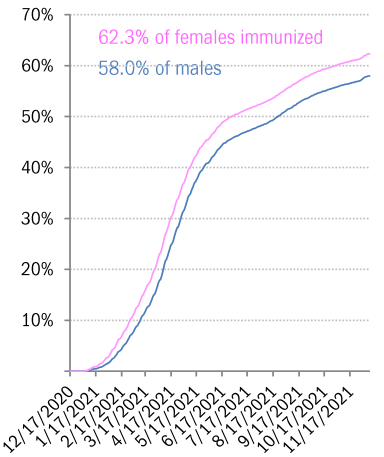
Every American >18 immunized in
40 days
by Jan 18, 2022

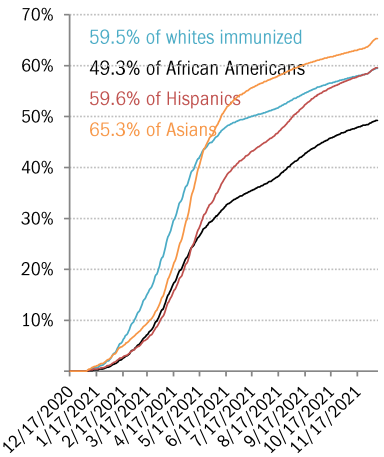
73.7% of population >18 immunized
17.5% previously tested positive
91.3% vs 60% adult herd immunity

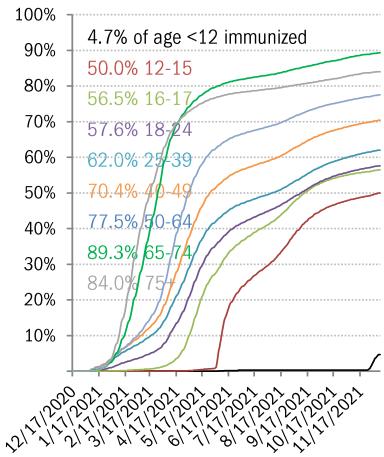
As of Dec 10

AK					WI					ME
63.9%					66.8%					83.4%
55.3%					60.6%					73.9%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
73.9%	51.3%	60.8%	59.0%	70.0%	70.3%	62.0%		80.6%	86.9%	90.7%
66.4%	45.7%	52.8%	49.6%	63.9%	62.8%	55.5%		70.1%	74.7%	65.4%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
72.5%	67.5%	54.6%	68.7%	63.5%	56.6%	59.3%	83.5%	80.8%	87.5%	
65.1%	55.3%	46.4%	55.8%	57.8%	51.2%	54.1%	59.8%	69.0%	72.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
80.3%	65.6%	72.7%	65.1%	60.9%	61.2%	89.0%	76.9%	78.2%	85.7%	85.3%
64.5%	56.7%	64.6%	58.6%	51.9%	53.1%	71.0%	66.4%	69.0%	73.2%	74.5%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	65.5%	78.2%	67.4%	61.4%	57.6%	72.4%	61.3%	84.1%	74.6%	
	55.7%	64.7%	55.6%	50.1%	50.2%	55.3%	52.2%	65.9%	62.7%	
			OK	LA	MS	AL	GA			
			64.1%	56.3%	54.7%	57.4%	59.9%			
			52.4%	49.4%	47.5%	46.8%	49.9%			
HI			TX					FL		PR
83.3%			65.1%					72.8%		86.3%
62.1%			55.7%					62.3%		75.1%

The demographics of US vaccination



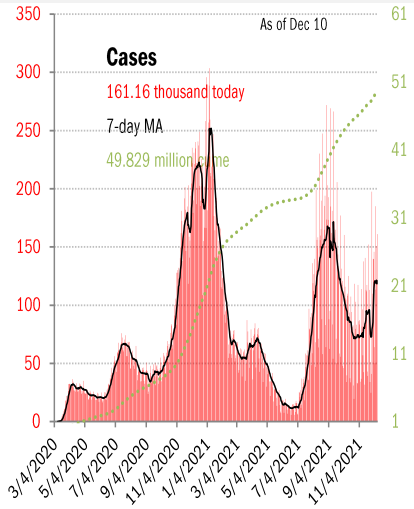


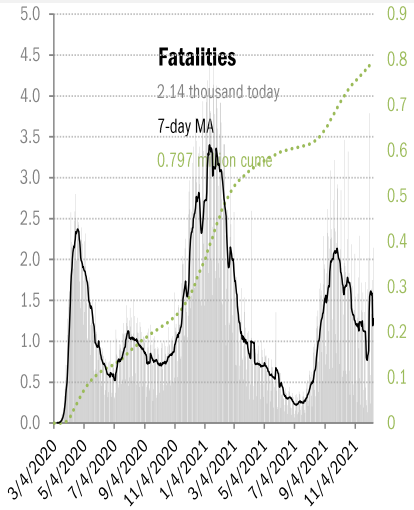


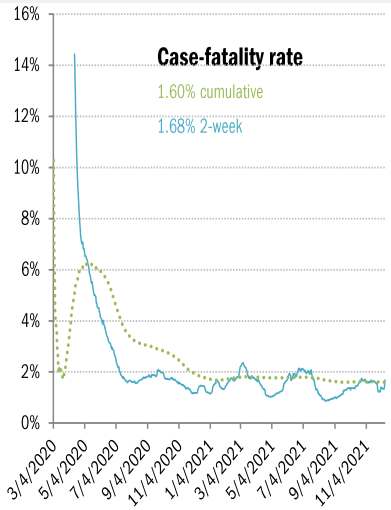
Source: CDC, CDC, Our World in Data, TrendMacro calculations

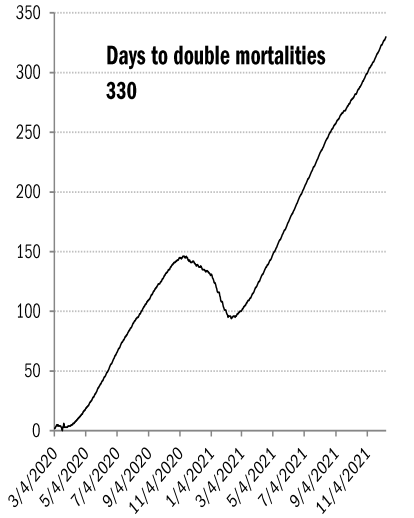
US deep-dive

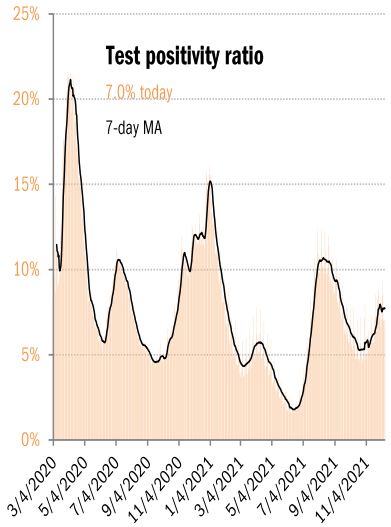
National and state-by-state data do not line up because of different sources

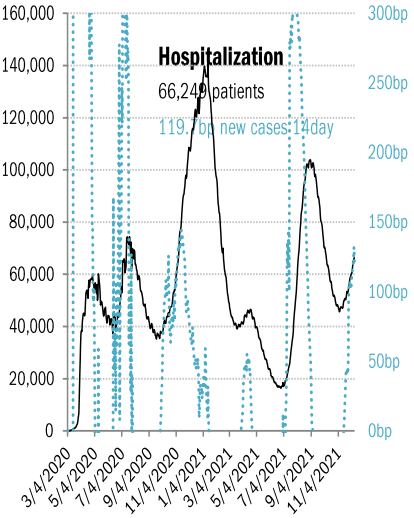


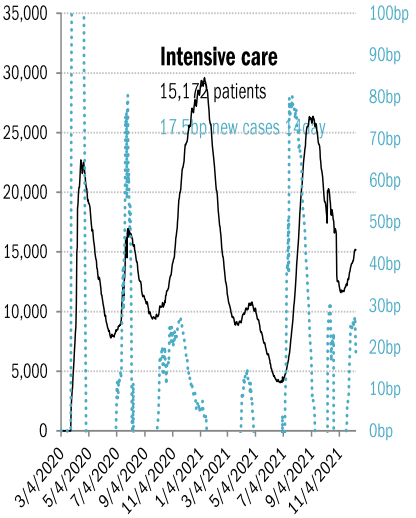


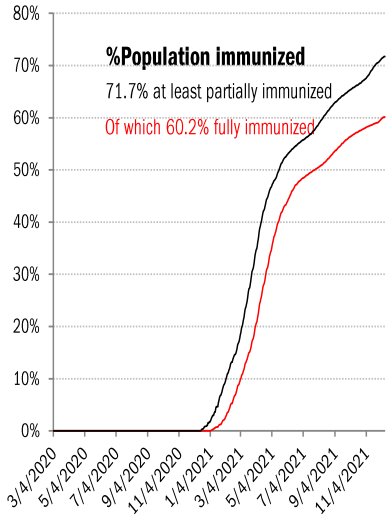












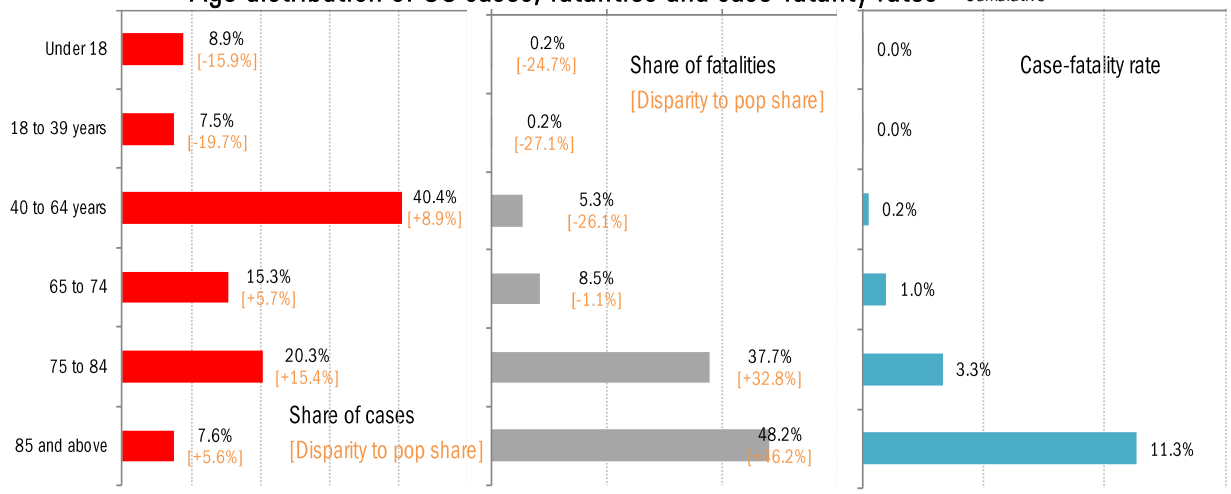
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

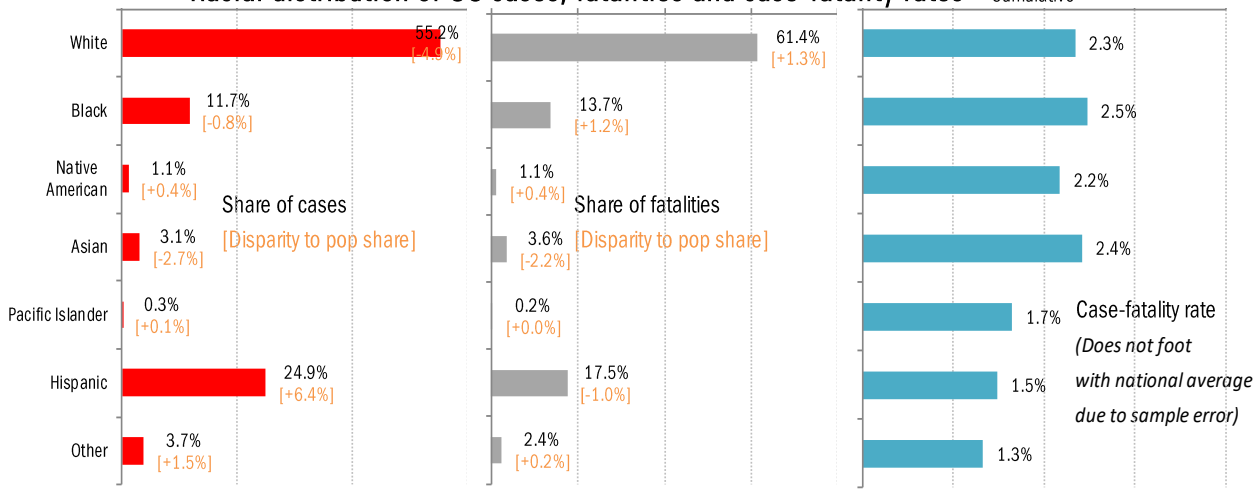
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



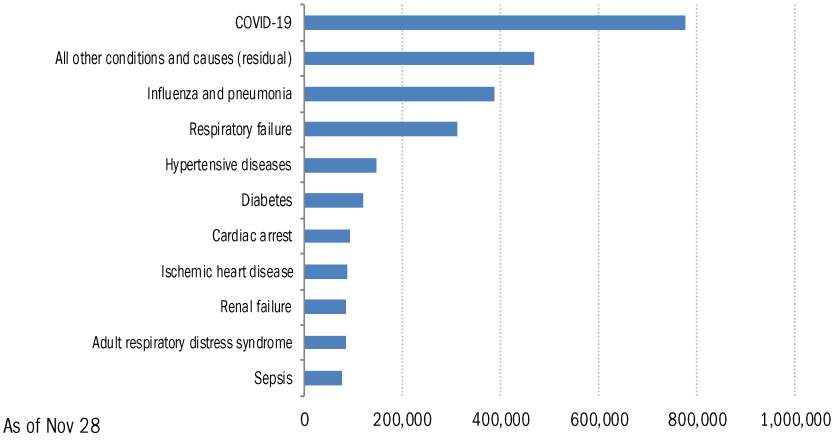
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Nov 28

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

New York Businesses Ordered to Require Masks Indoors or Vaccine Proof
Luis Ferré-Sadurní and Jesse McKinley
New York Times
December 10, 2021

Vaccine Mandates Rekindle Fierce Debate Over Civil Liberties
Mark Landler
New York Times
December 10, 2021

Increases in COVID-19 are unrelated to levels of vaccination across 68 countries and 2947 counties in the United States
S. V. Subramanian and Akhil Kumar
European Journal of Epidemiology
September 30, 2021

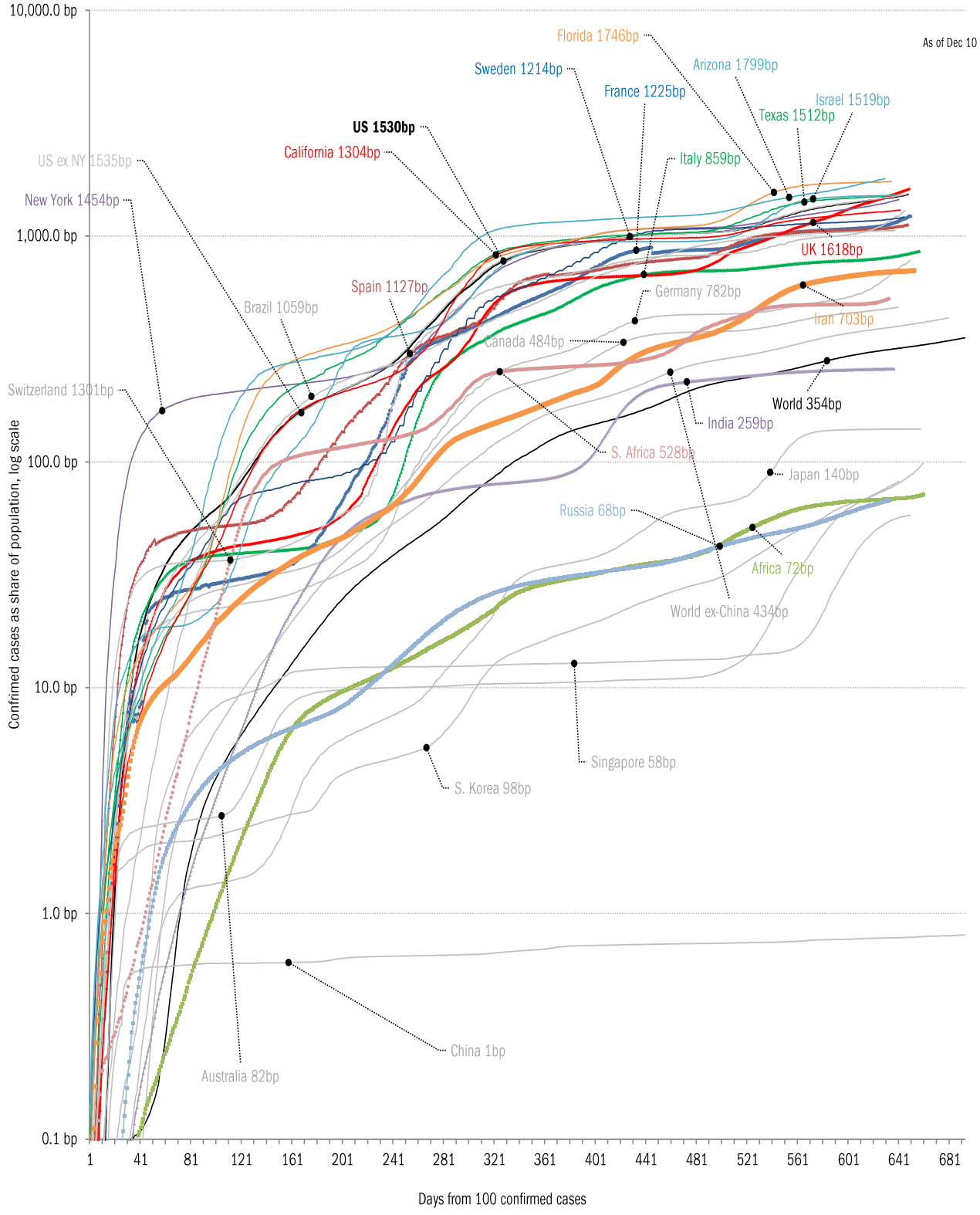
Pandemic Schooling Mode And Student Test Scores: Evidence From Us States
Clare Halloran et al.
NBER
November 2021

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

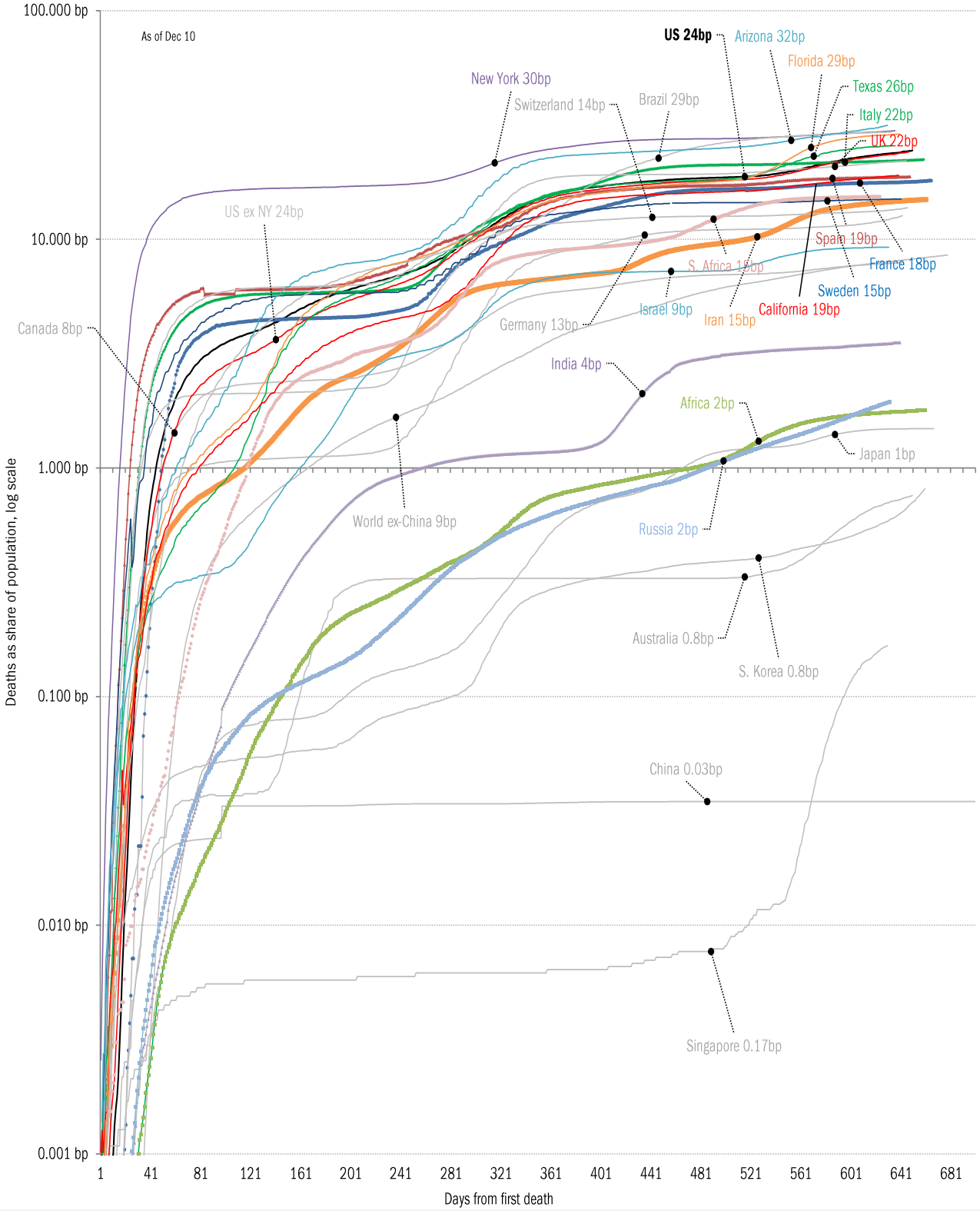
Share of infected population from first day with 100 confirmed cases, log scale



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

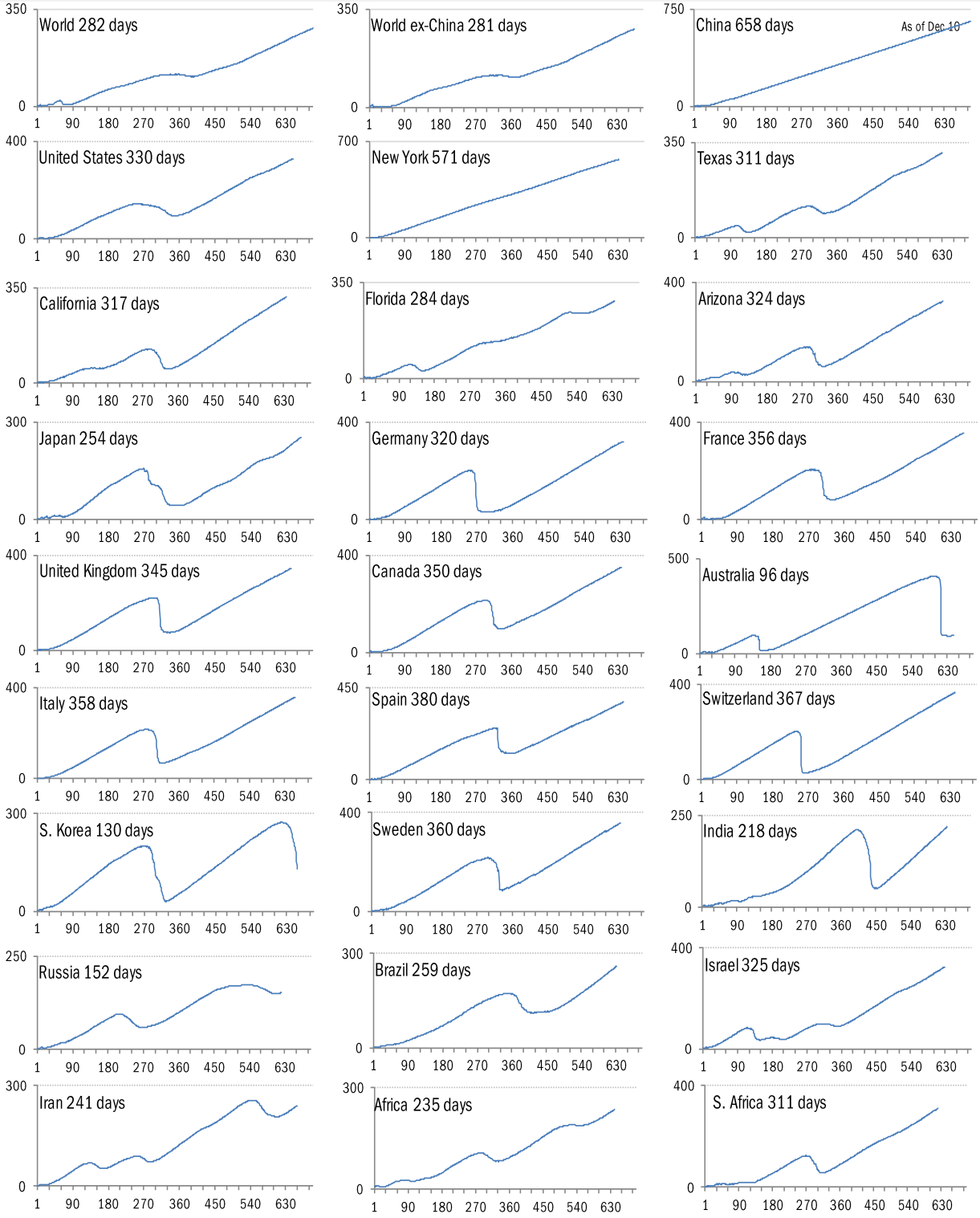


Source: Johns Hopkins, TrendMacro calculations

"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

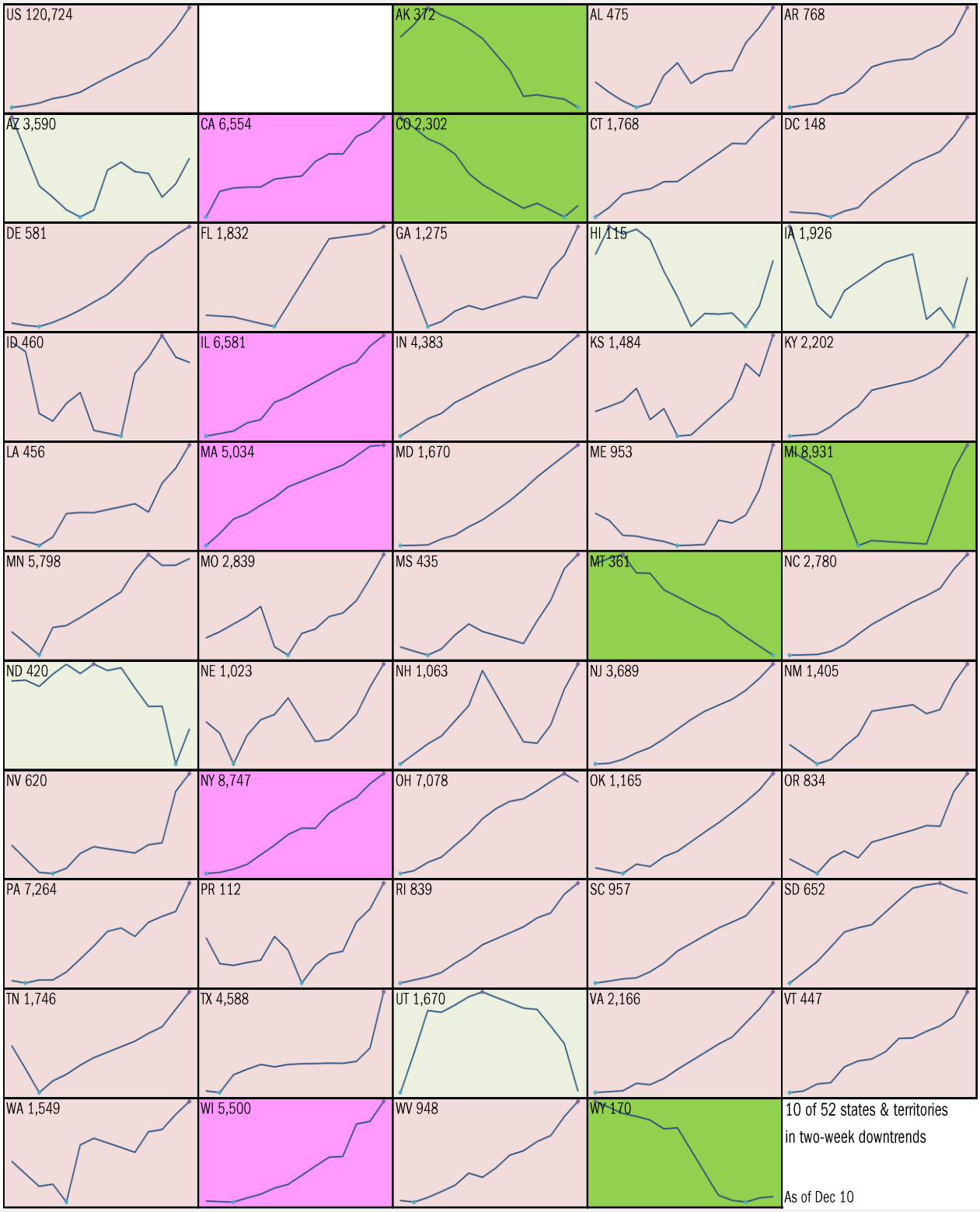


Source: Johns Hopkins, TrendMacro calculations

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

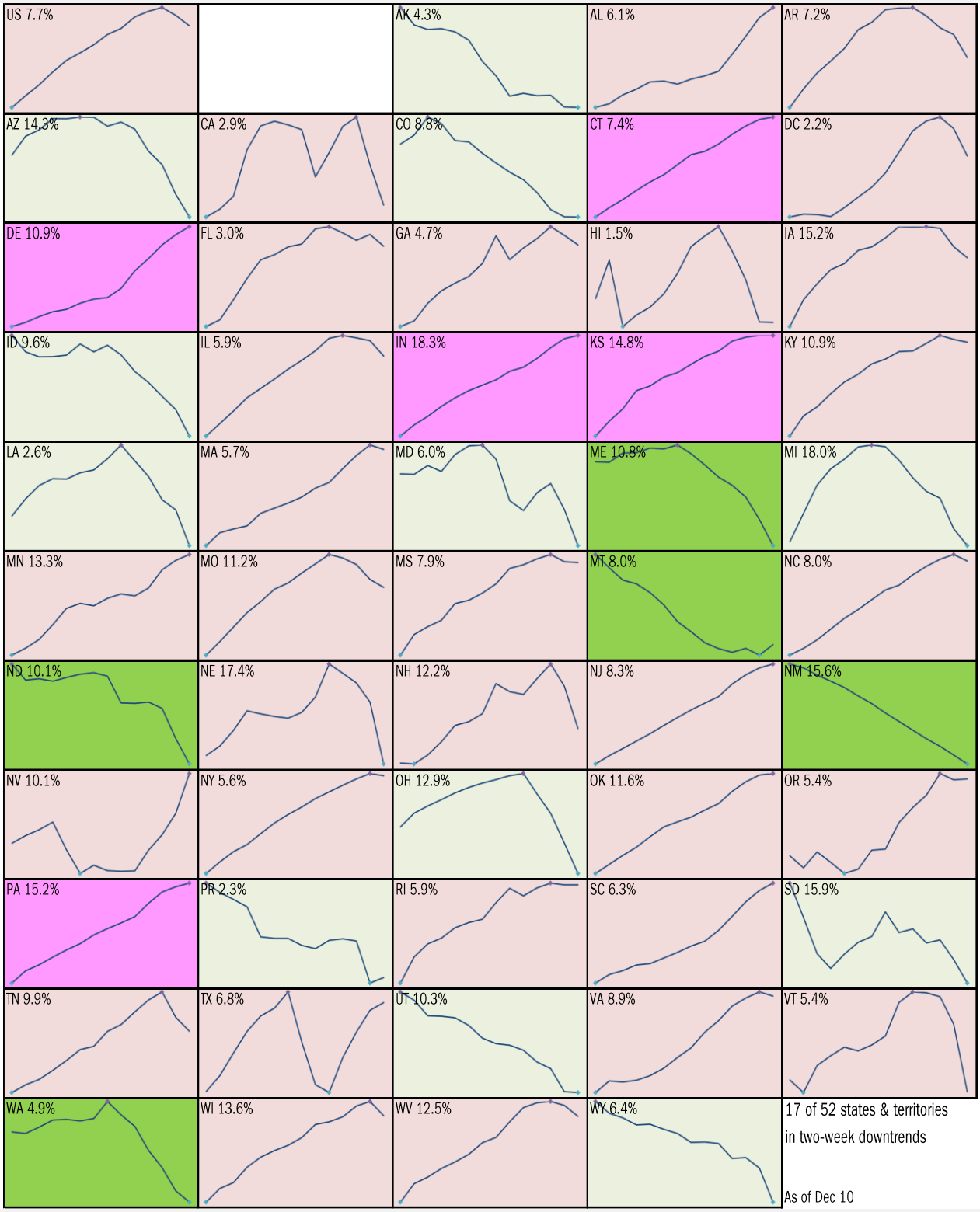


Source: Johns Hopkins, TrendMacro calculations

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

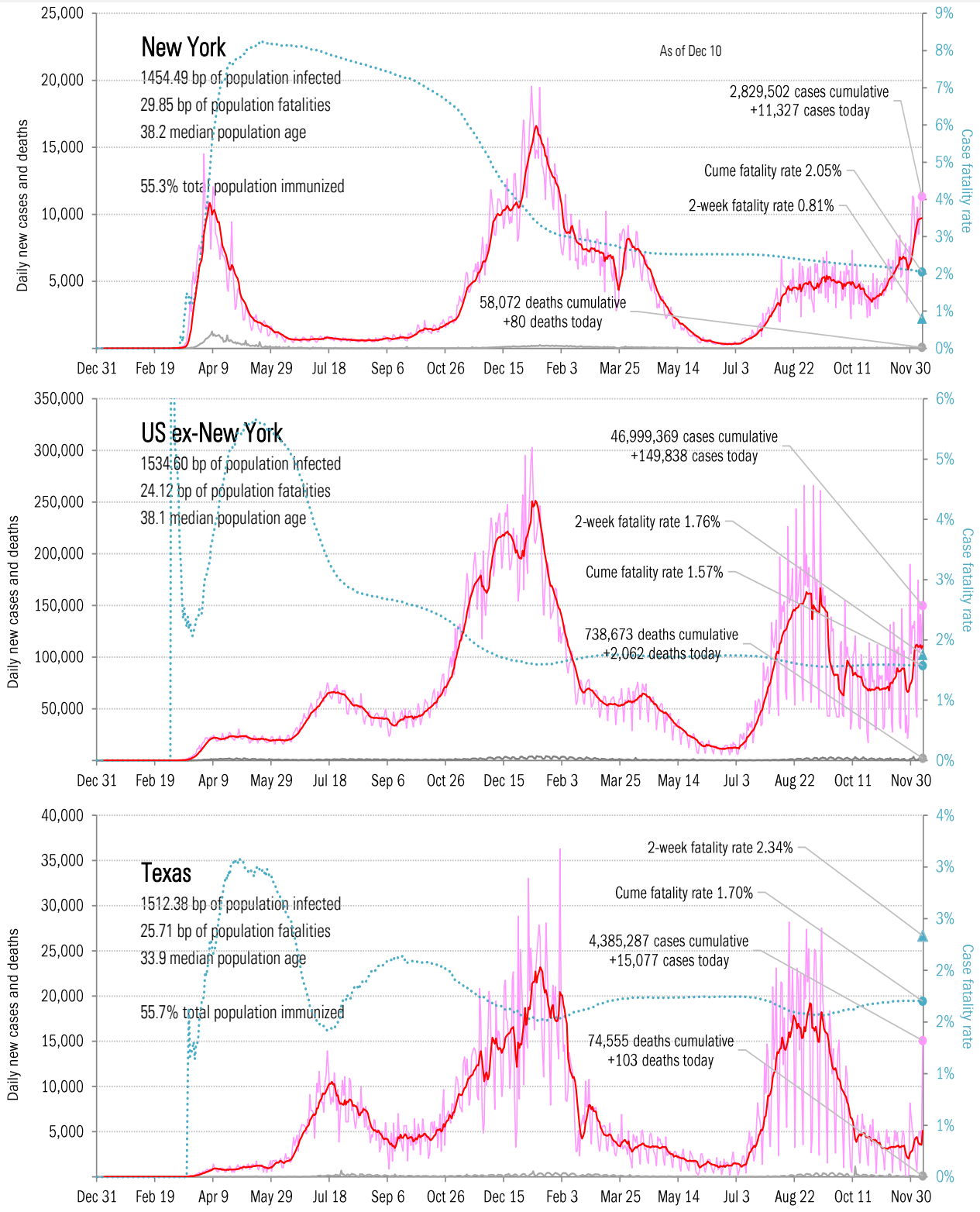
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

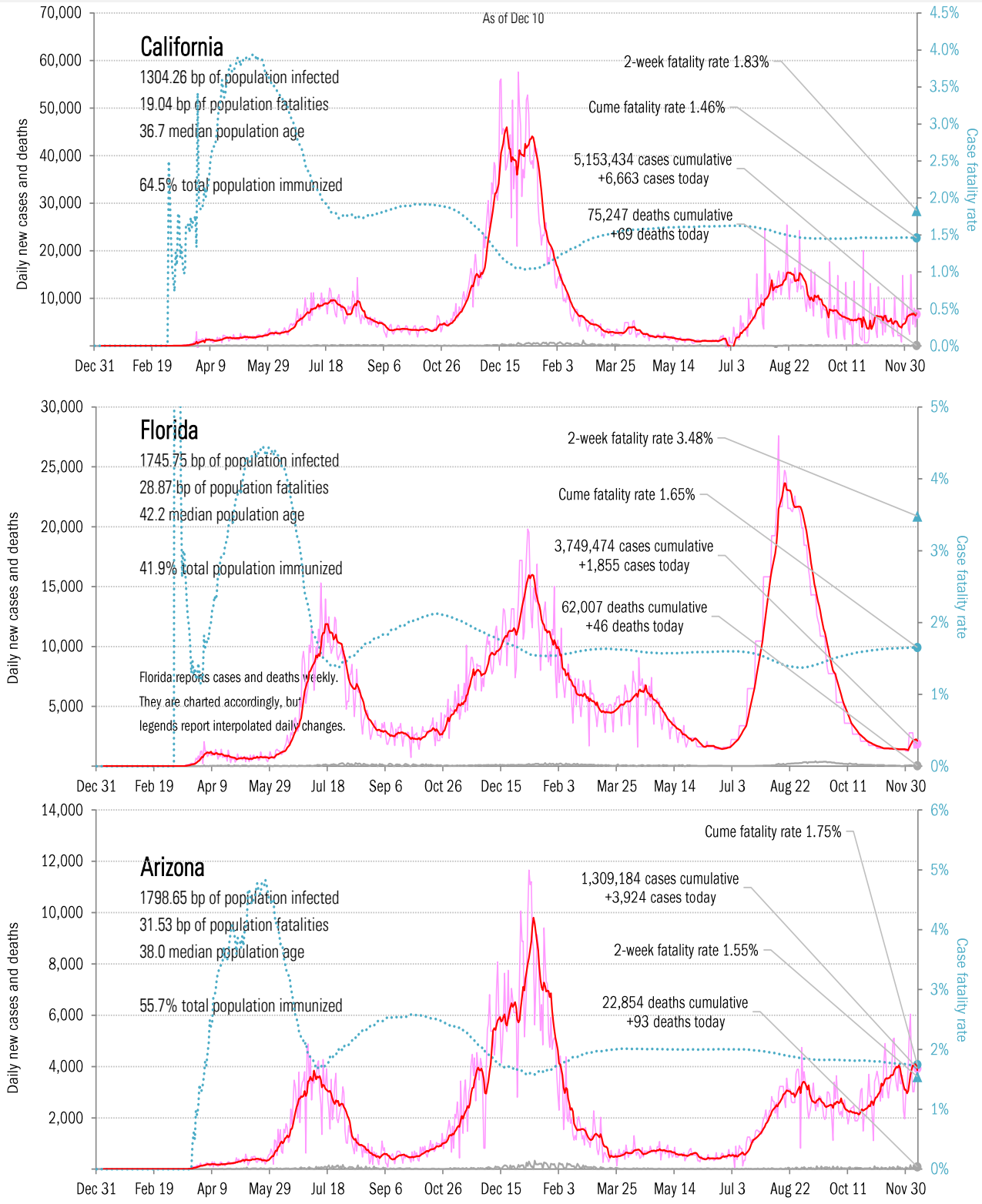
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

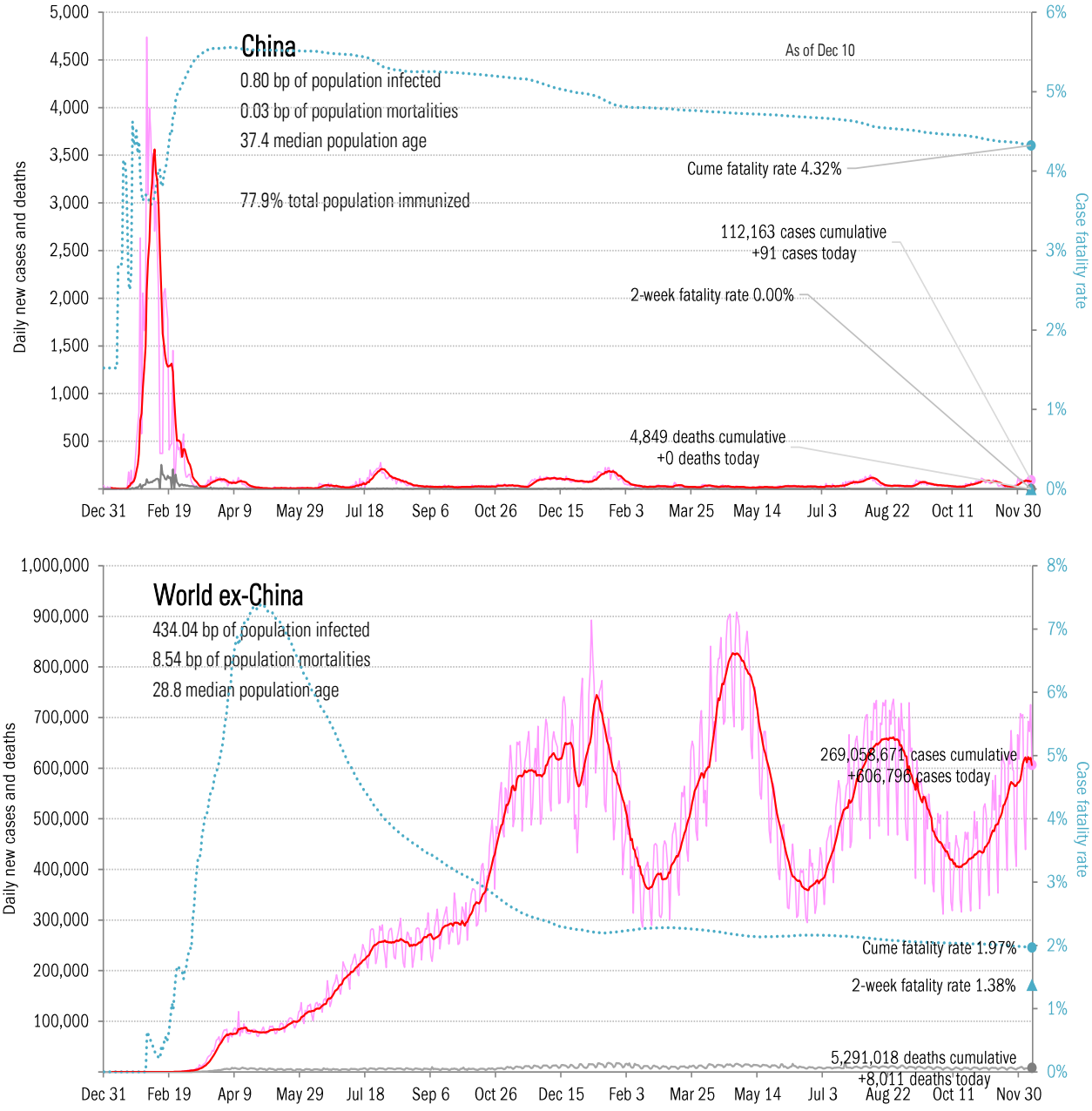
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

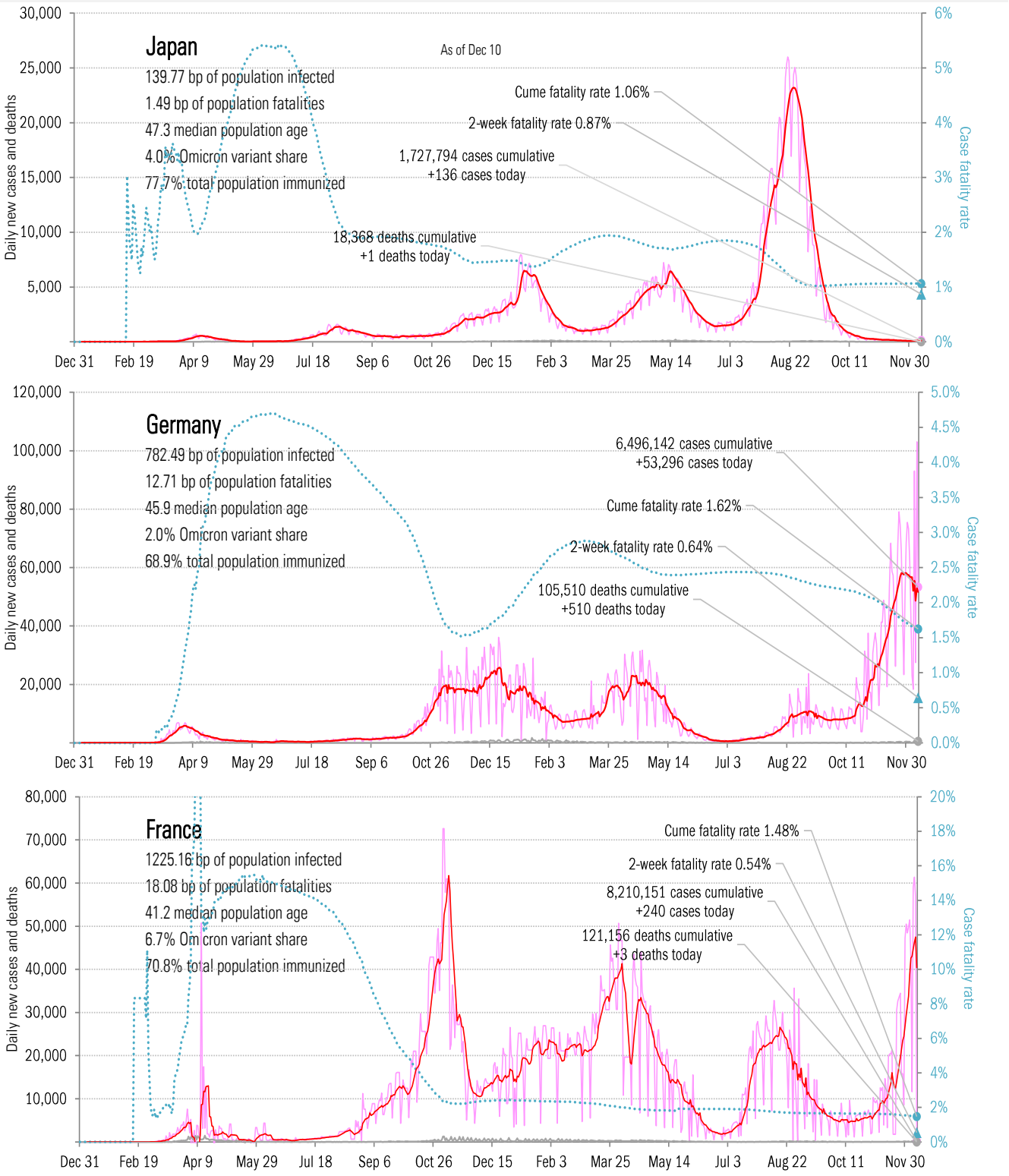
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

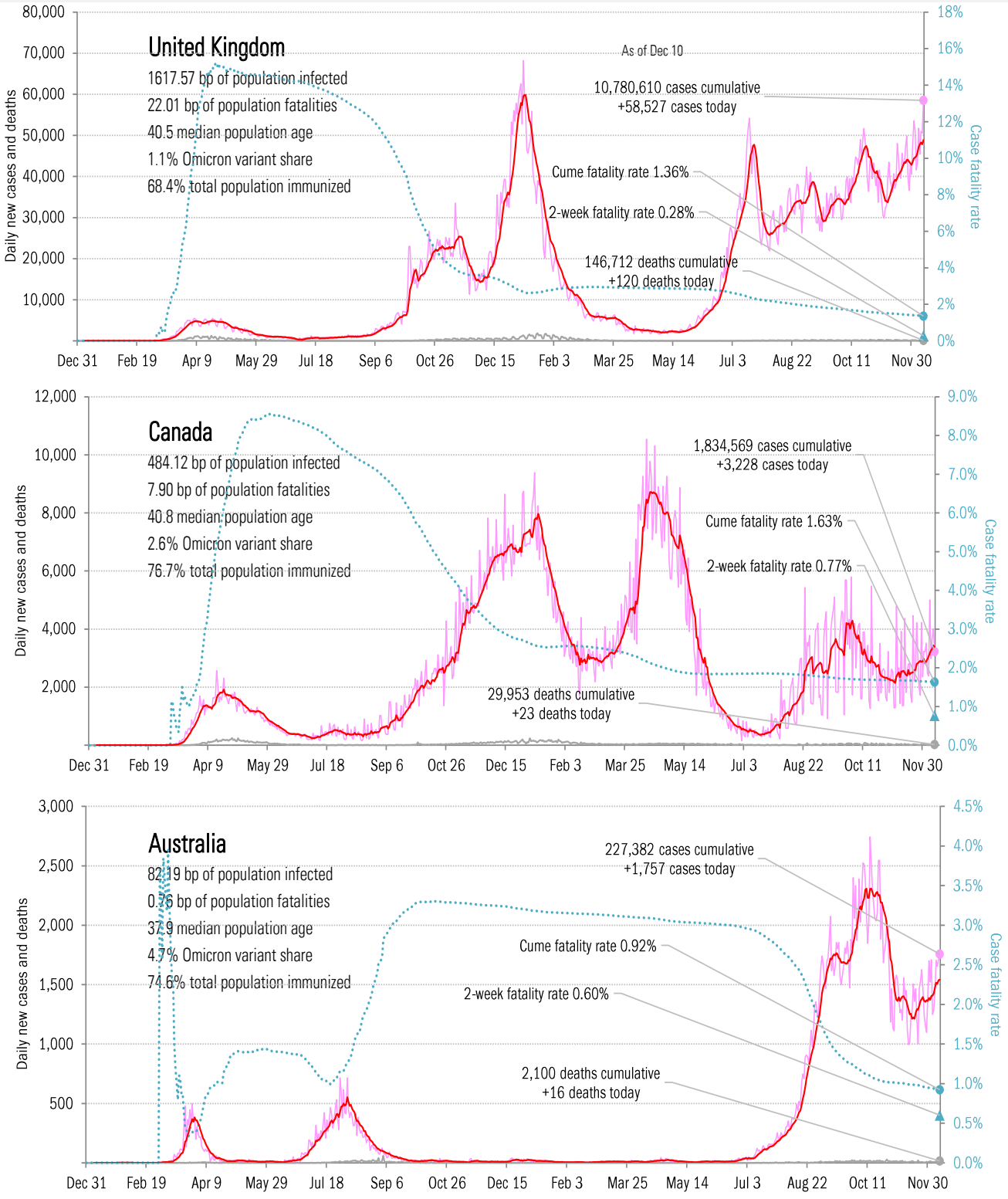
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

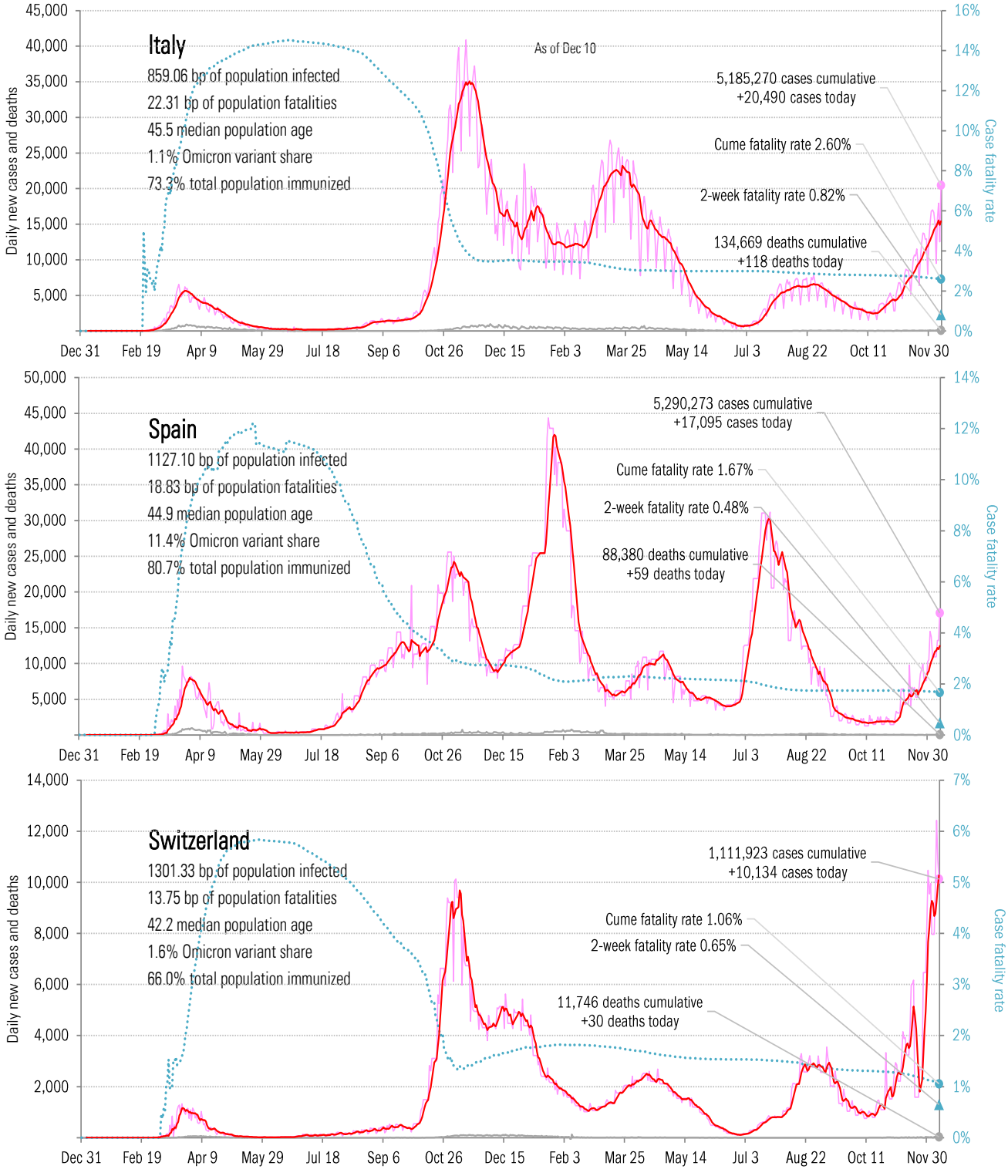
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

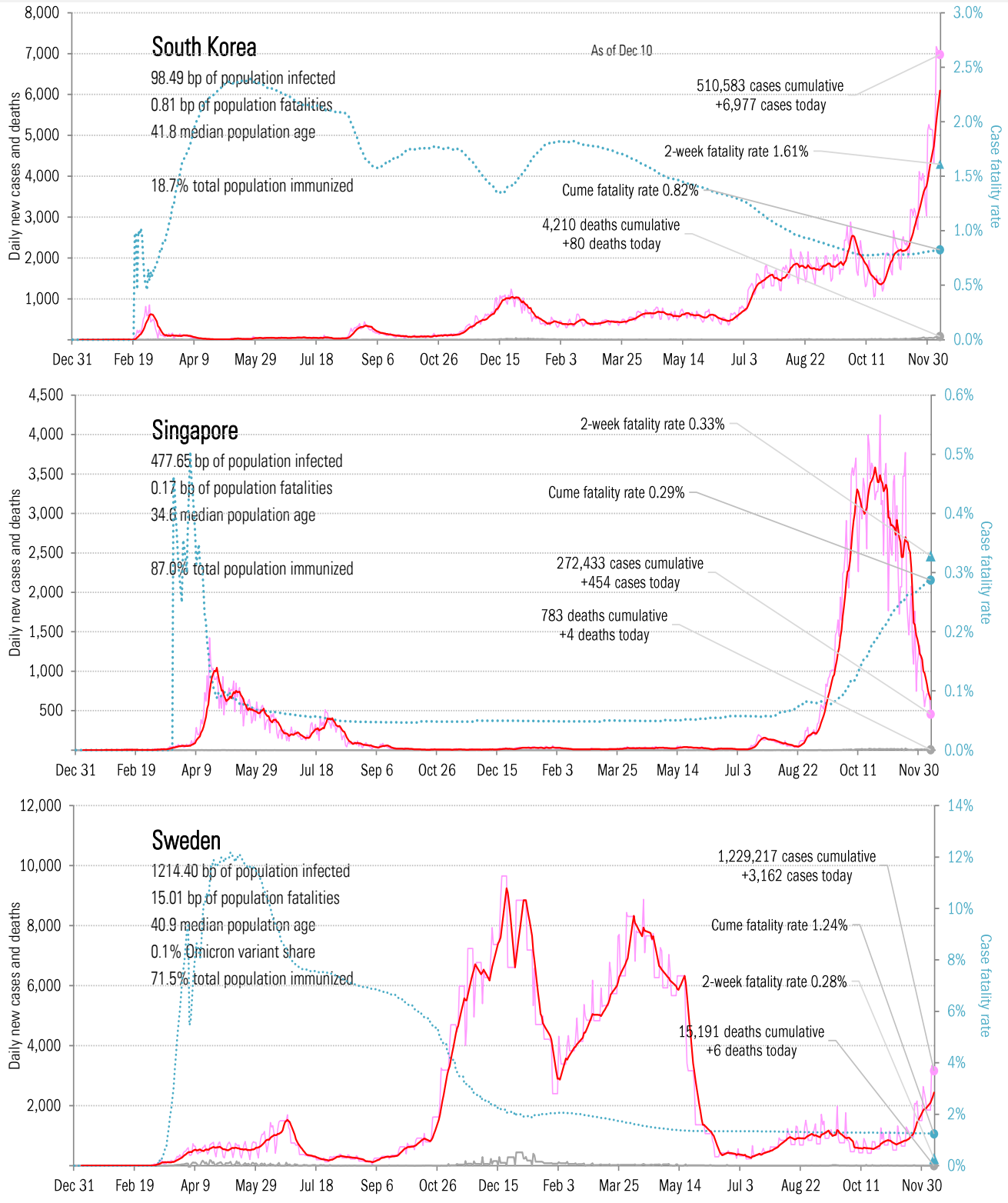
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

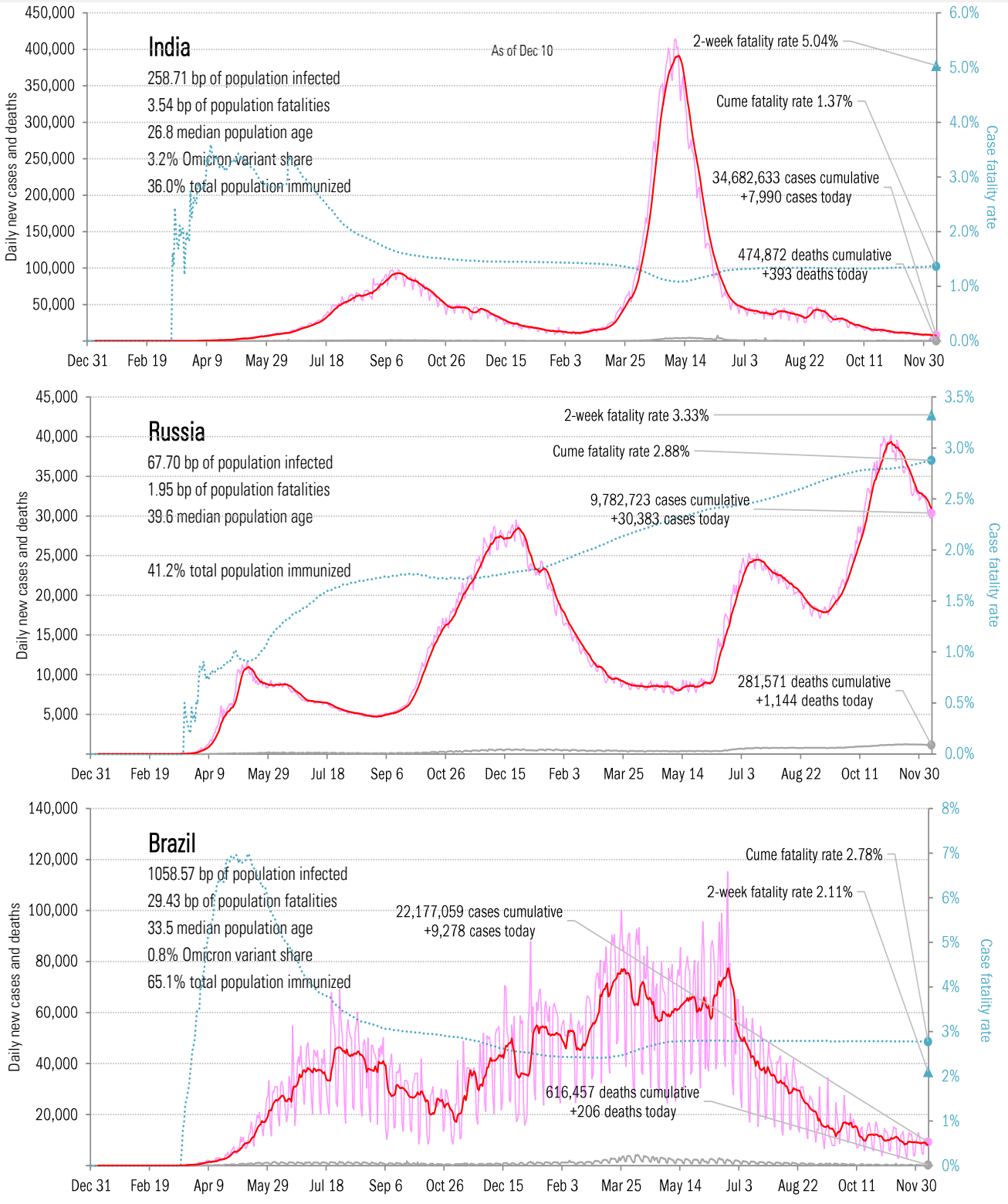
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

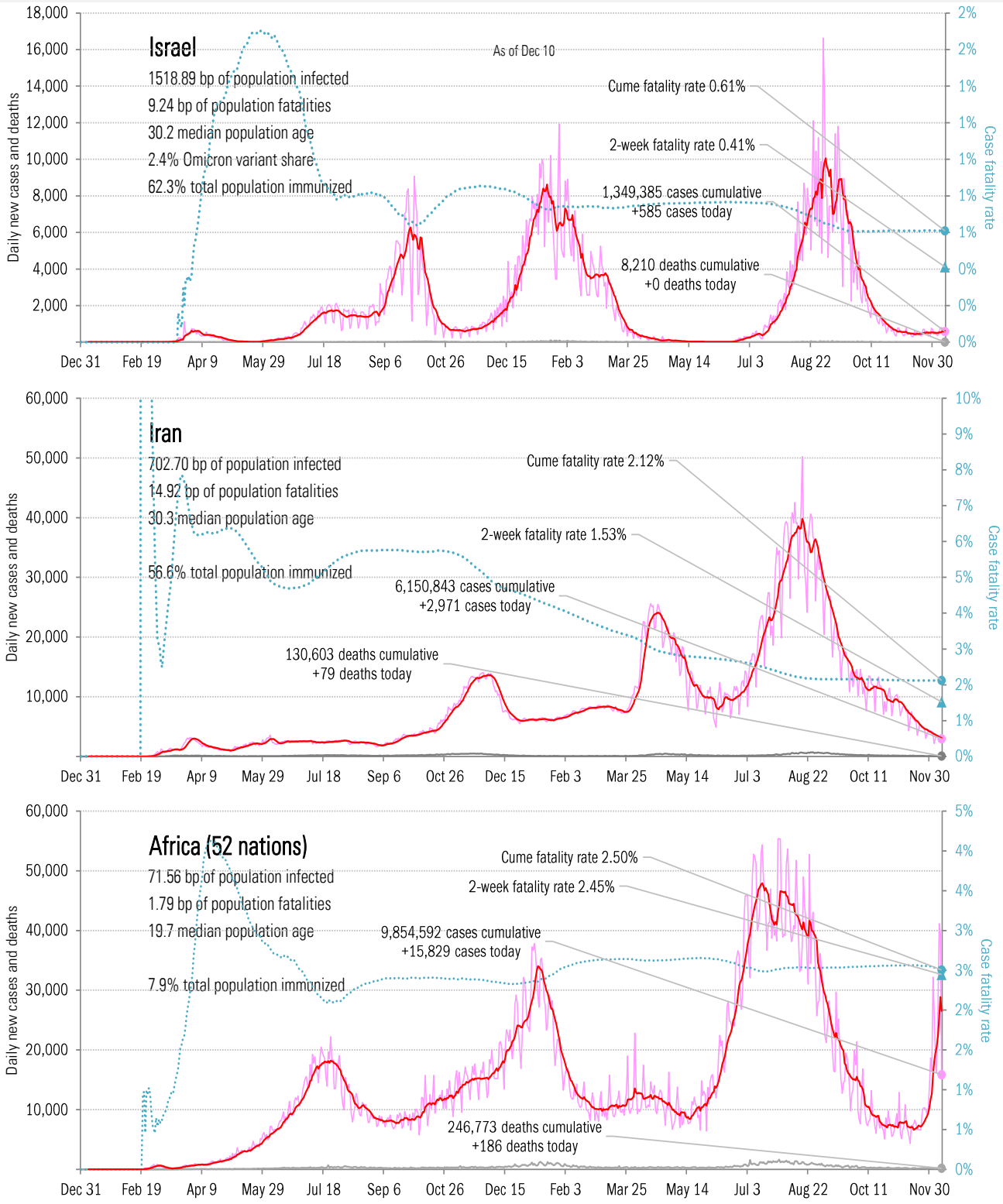
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

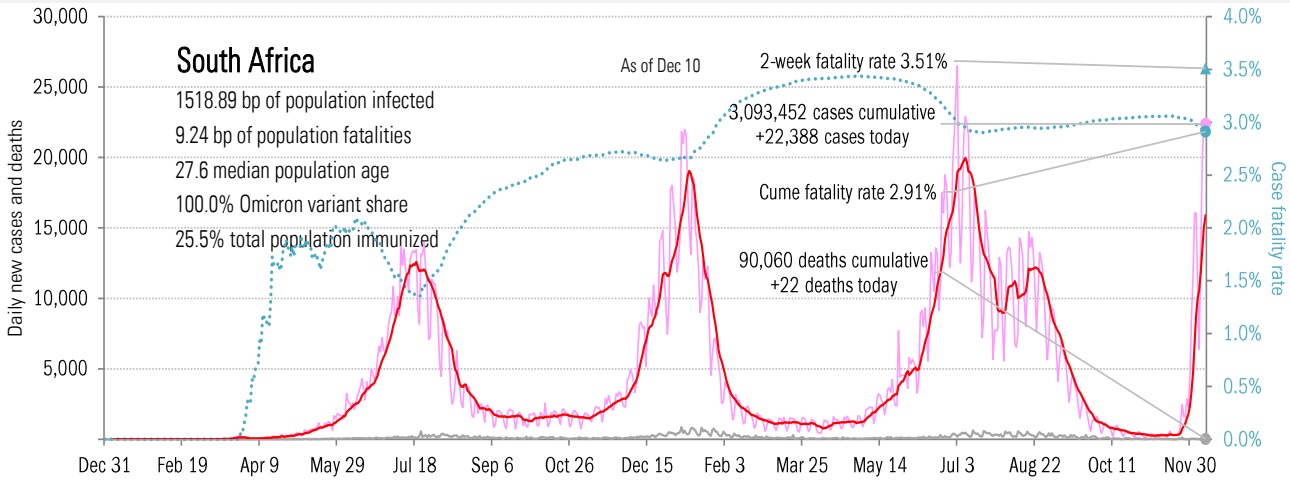
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations