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Data Insights: Covid-2019 Monitor

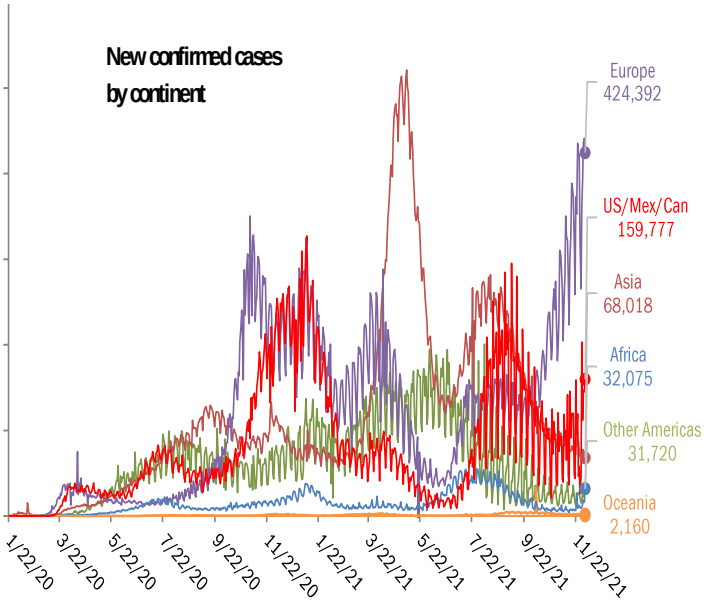
Saturday, December 4, 2021

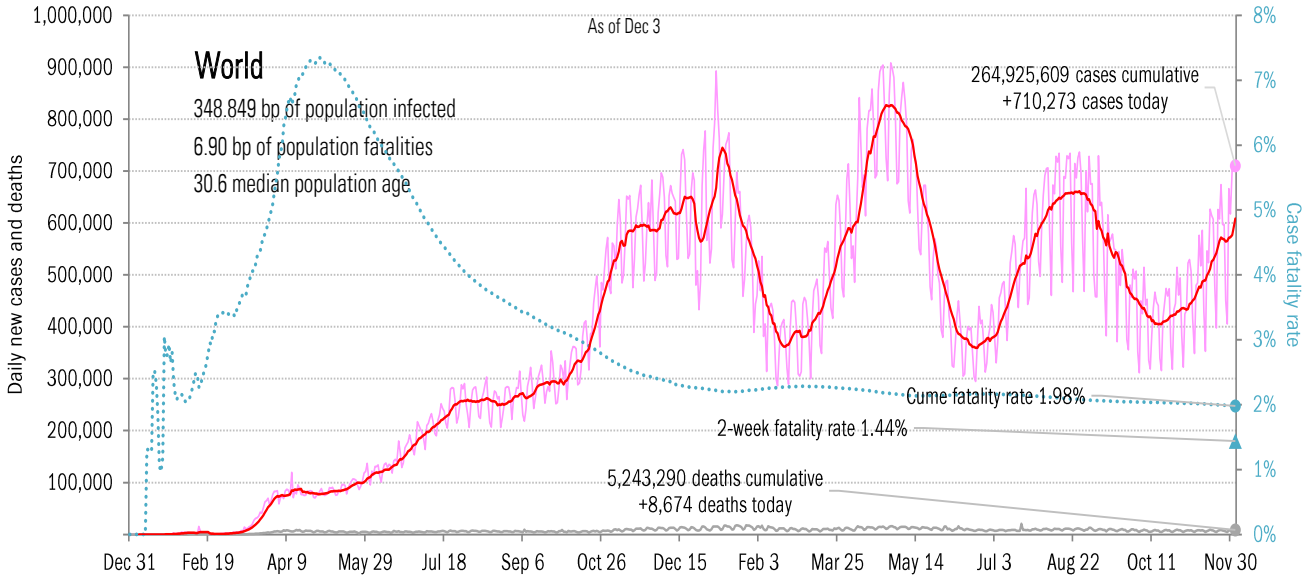
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	+150,030	United States	+1,803
Germany	+62,193	Russia	+1,184
United Kingdom	+51,181	Ukraine	+542
France	+49,871	Mexico	+476
Russia	+32,316	Poland	+470
Poland	+26,961	India	+415
Netherlands	+21,596	Germany	+378
Turkey	+21,495	Philippines	+235
Czechia	+18,683	Brazil	+221
Belgium	+17,910	Romania	+206
	+452,236		+5,930
World	+710,273	World	+8,674
Top ten	64%	Top ten	68%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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The US scorecard

Cases: 7-day average and daily Deaths: Daily

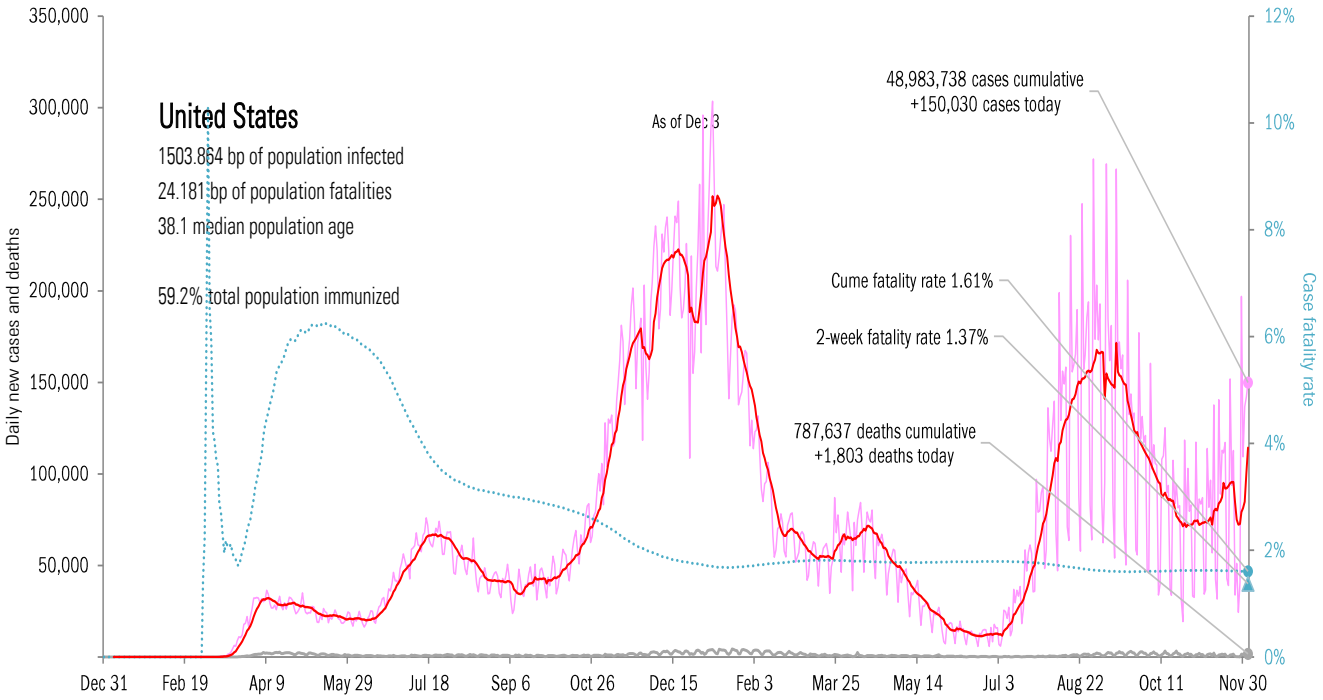
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
MI	+22,372	MI	+310	PA	+138	CA	5,105,427	CA	74,781	TX	385,661	MA	88%	NM	98%
NY	+11,218	OH	+264	GA	+133	TX	4,349,514	TX	74,107	FL	324,076	RI	87%	AL	93%
PA	+10,127	CA	+112	IL	+130	FL	3,734,669	FL	61,643	CA	321,684	PA	86%	RI	91%
OH	+9,584	TN	+102	IN	+100	NY	2,761,545	NY	57,695	NY	174,081	MD	85%	NE	91%
CA	+7,789	PA	+97	MI	+93	IL	1,835,076	PA	33,746	GA	163,612	MI	85%	VT	89%
IL	+7,558	FL	+79	CA	+77	PA	1,763,796	GA	30,655	OH	136,983	MO	85%	KY	88%
MA	+5,765	TX	+74	MO	+68	OH	1,717,876	IL	28,968	PA	128,521	WV	84%	AR	87%
MN	+5,682	KY	+65	OH	+61	GA	1,668,875	NJ	28,434	KY	115,023	MN	83%	ID	87%
IN	+5,600	MN	+62	CO	+59	NC	1,544,544	OH	26,851	IL	111,915	GA	83%	TX	87%
WI	+5,302	IN	+60	TX	+55	MI	1,517,325	MI	26,108	MI	105,108	NY	83%	DE	87%
	+90,997		+1,225		+914		25,998,647		442,988		1,966,664				
All states	+150,030		+1,803		+1709	All states	48,983,738		787,637		3,537,761	All states	70%		67%
Top ten	61%		68%		53%	Top ten	53%		56%		56%	Median	78%		81%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MO	-4,715	MO	-2,431	NY	-40	MP	+40 bp
IL	-3,966	CO	-52	AZ	-15	RI	+30 bp
CA	-3,081	WA	-44	ME	-14	CA	+20 bp
WA	-2,532	SC	-33	ID	-4	DC	+20 bp
IA	-1,839	WV	-33	ND	-4	HI	+20 bp



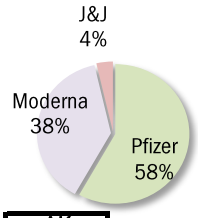
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	479,009,640				+1.947 million
Boosters	88,675,068				+2.142 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	240,605,671	72%	203,299,803	61%	+0.379 million
Age 12 to 17	14,729,310	62%	12,330,166	52%	+0.020 million
Age 18 to 64	163,241,133	80%	140,312,570	69%	+0.151 million
Age 65 and over	57,092,993	100%	49,016,964	89%	+0.032 million

Immunity	Full	Partial
US	59.2%	70.7%
UK	68.1%	74.8%
France	70.0%	77.0%
Spain	80.6%	82.2%
Germany	68.3%	71.2%
Italy	73.1%	78.4%
Australia	73.5%	77.9%
Israel	62.2%	68.4%
Canada	76.4%	80.7%
Japan	77.4%	79.2%
Africa	7.5%	11.3%
India	33.4%	57.2%
Brazil	63.8%	76.9%
China	76.9%	84.8%

Global data differs due to sources, timing



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

Best
Middle
Worst

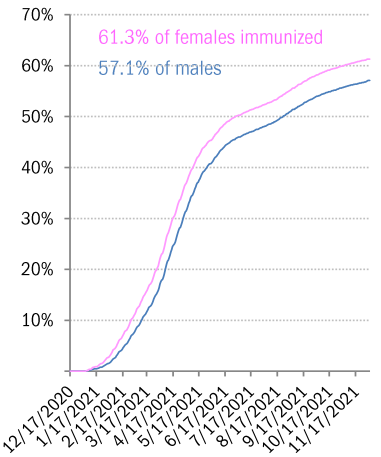
Every American >18 immunized in
66 days
by Feb 6, 2022

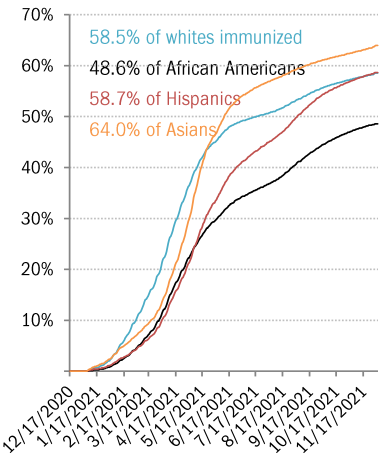
73.2% of population >18 immunized
17.2% previously tested positive
90.4% vs 60% adult herd immunity

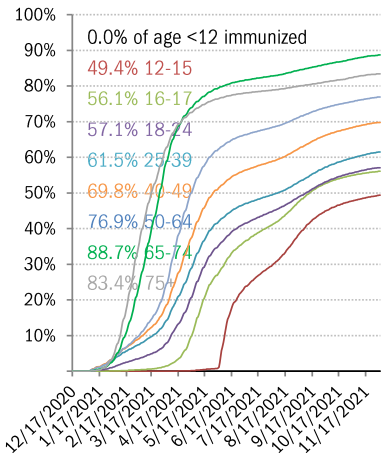
As of Dec 3

AK					WI				ME
63.2%					66.1%				82.4%
54.5%					59.8%				72.7%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
73.2%	50.9%	60.1%	58.4%	69.3%	69.3%	61.5%		78.8%	85.8%	88.5%
65.4%	45.4%	52.1%	49.1%	62.9%	61.7%	54.9%		68.8%	73.2%	65.0%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
71.8%	66.7%	54.0%	67.6%	62.9%	56.0%	58.7%	82.2%	79.7%	86.3%	
64.3%	54.7%	45.8%	55.0%	57.0%	50.8%	53.4%	58.8%	68.2%	71.6%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
79.3%	65.0%	71.9%	64.3%	60.1%	60.5%	69.0%	76.0%	77.3%	84.5%	83.7%
63.6%	55.9%	63.6%	57.7%	51.2%	52.4%	49.0%	65.4%	68.0%	72.3%	73.1%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	64.7%	77.2%	66.5%	60.8%	57.1%	70.8%	60.6%	82.1%	73.4%	
	55.0%	63.9%	54.9%	49.6%	49.7%	54.5%	51.6%	64.9%	61.9%	
			OK	LA	MS	AL	GA			
			63.2%	55.8%	54.1%	56.9%	59.3%			
			51.8%	49.0%	47.1%	46.4%	49.8%			
HI			TX					FL		PR
82.5%			64.4%					72.1%		85.3%
61.4%			55.0%					61.6%		74.3%

The demographics of US vaccination



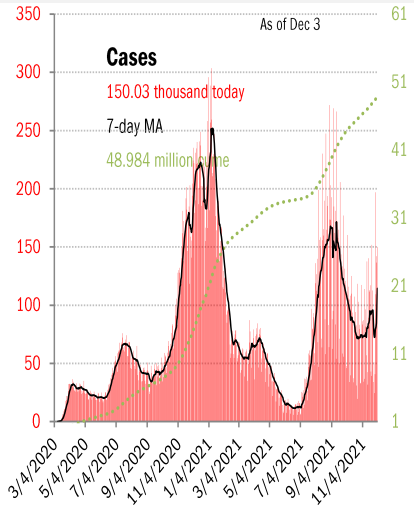


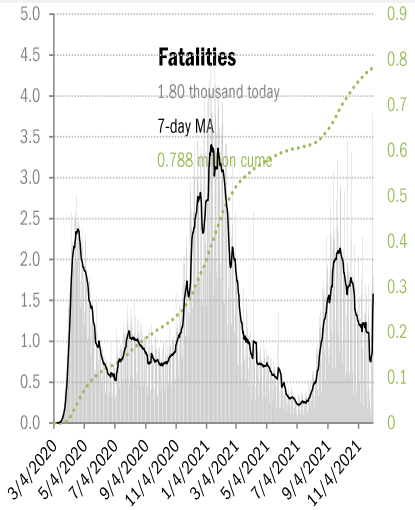


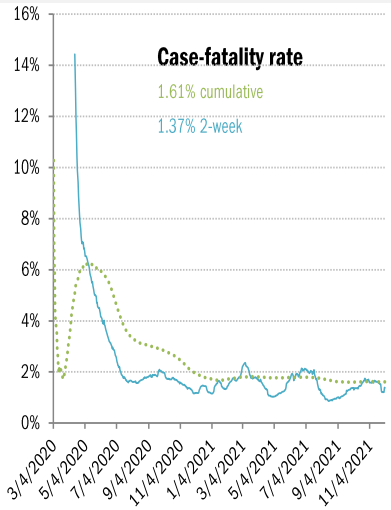
Source: CDC, CDC, Our World in Data, TrendMacro calculations

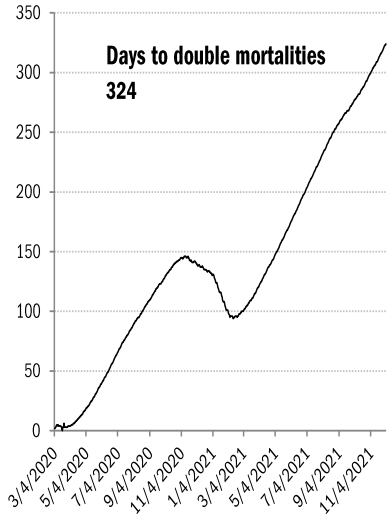
US deep-dive

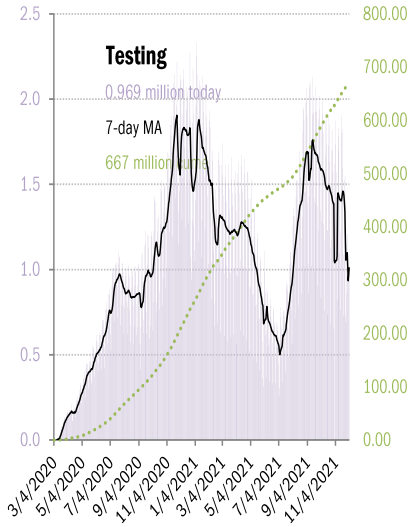
National and state-by-state data do not line up because of different sources

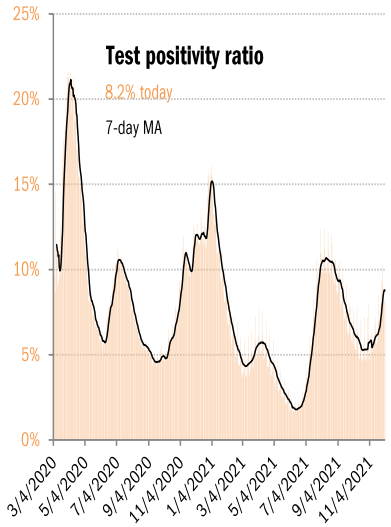


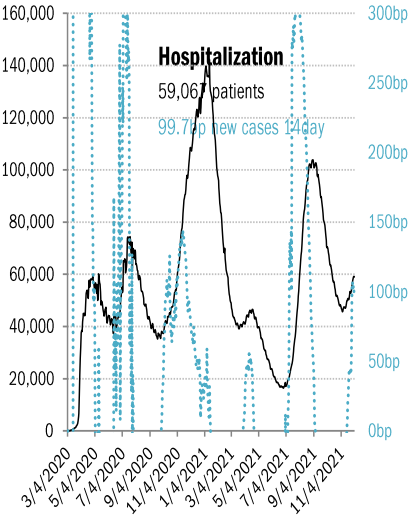


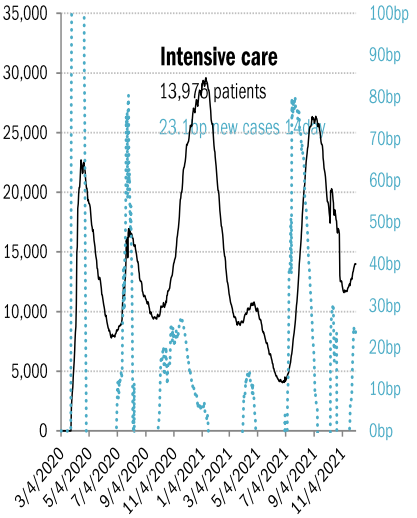


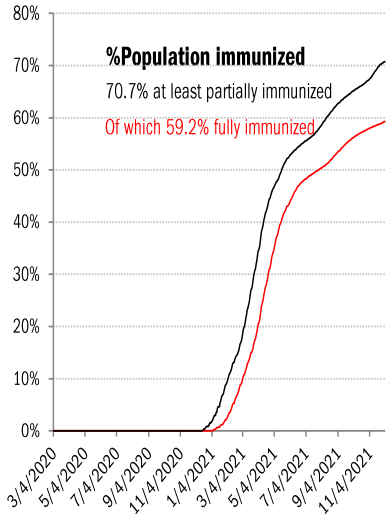












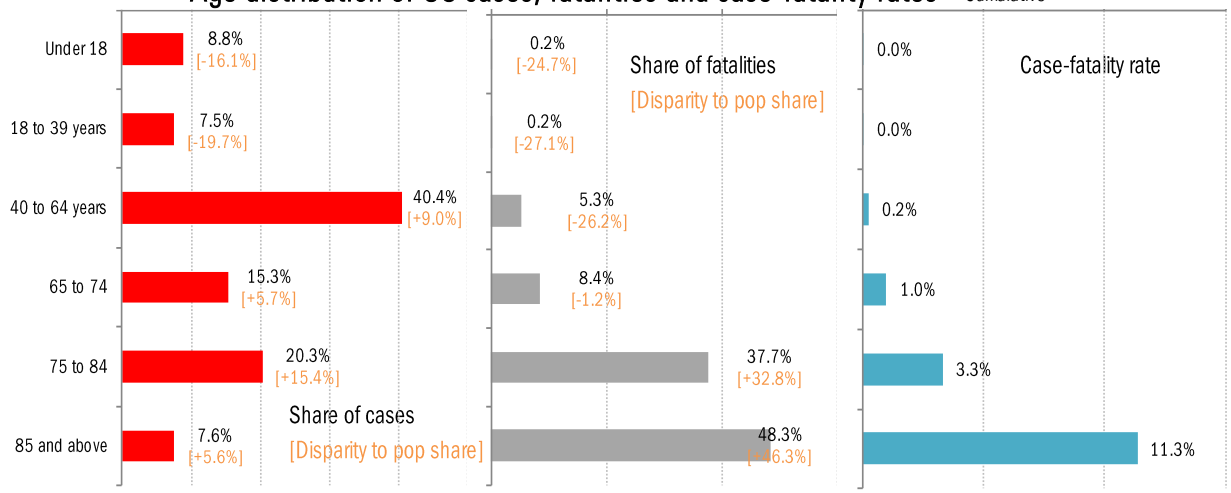
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

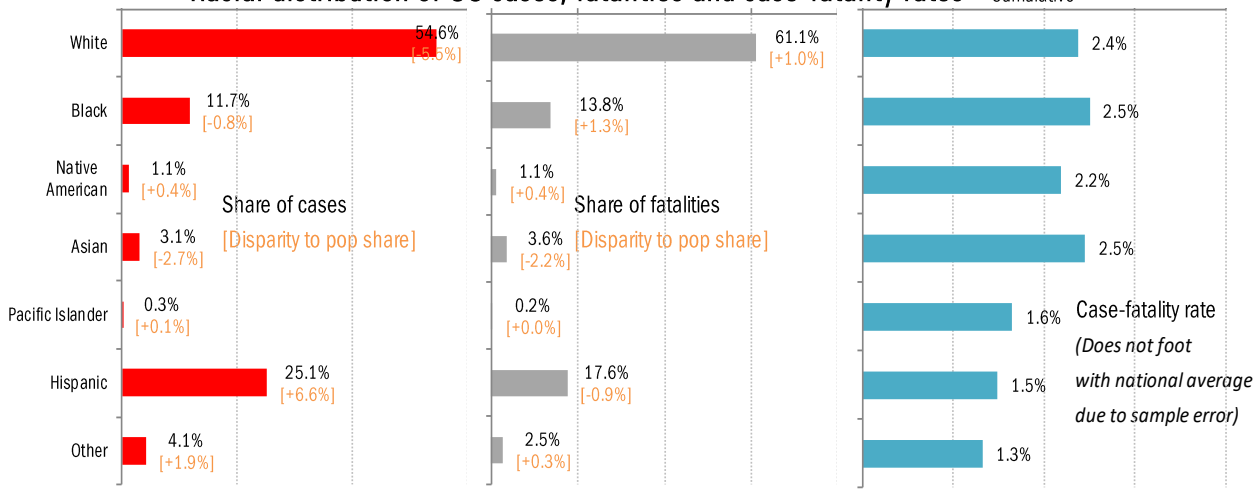
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



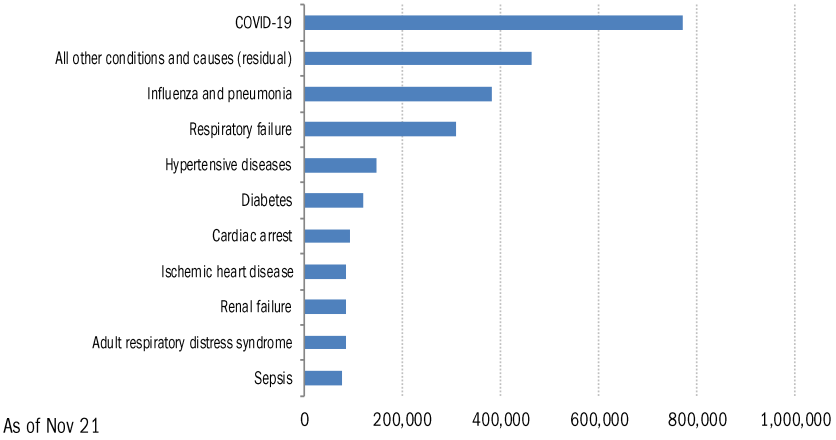
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Nov 21

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

The Variant Hunters: Inside South Africa's Effort to Stanch Dangerous Mutations
Stephanie Nolen
New York Times
December 4, 2021

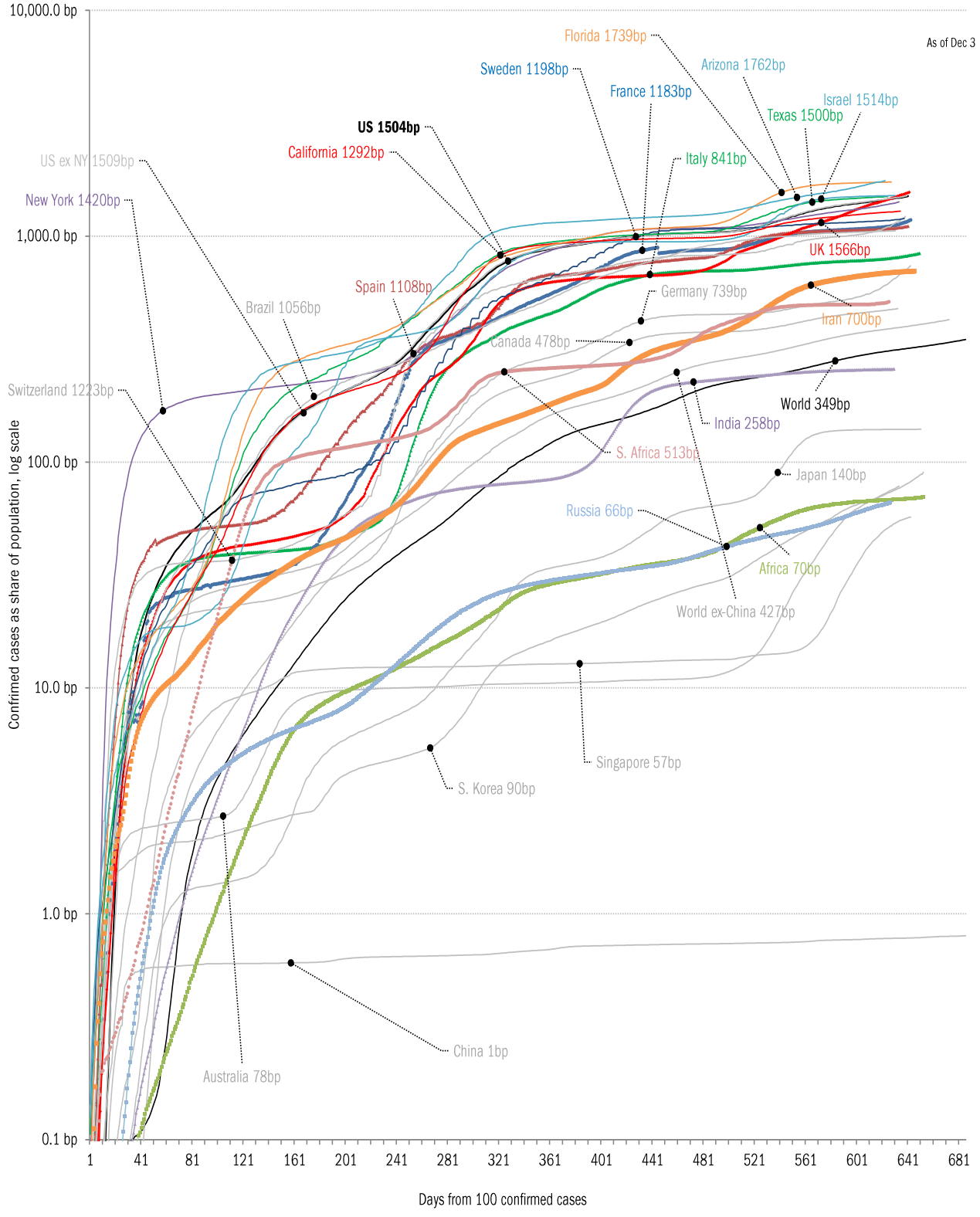
Inside a Sequencing Lab on the Front Lines of America's Search for Omicron
Mitch Smith
New York Times
December 3, 2021

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

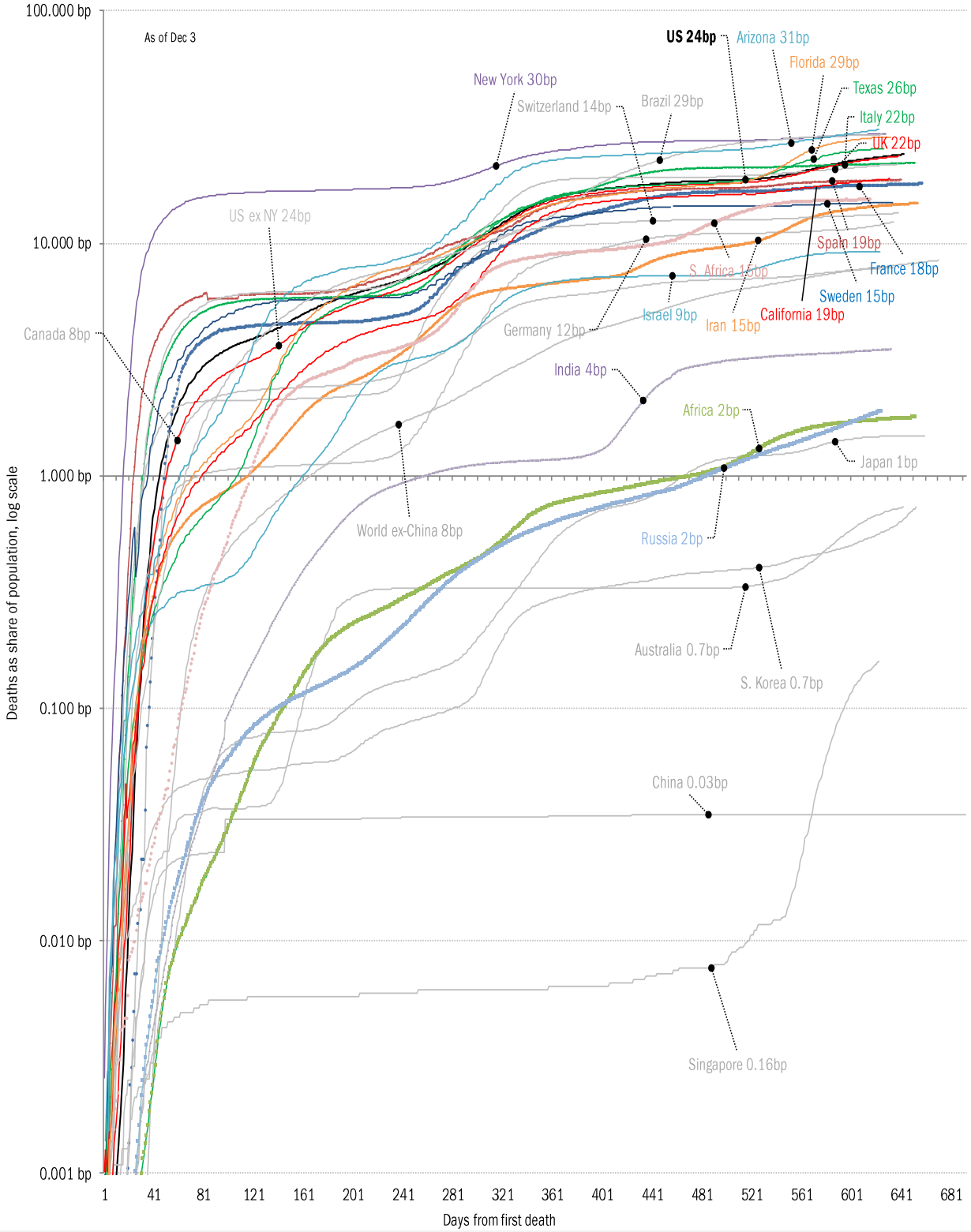
Share of infected population from first day with 100 confirmed cases, log scale



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

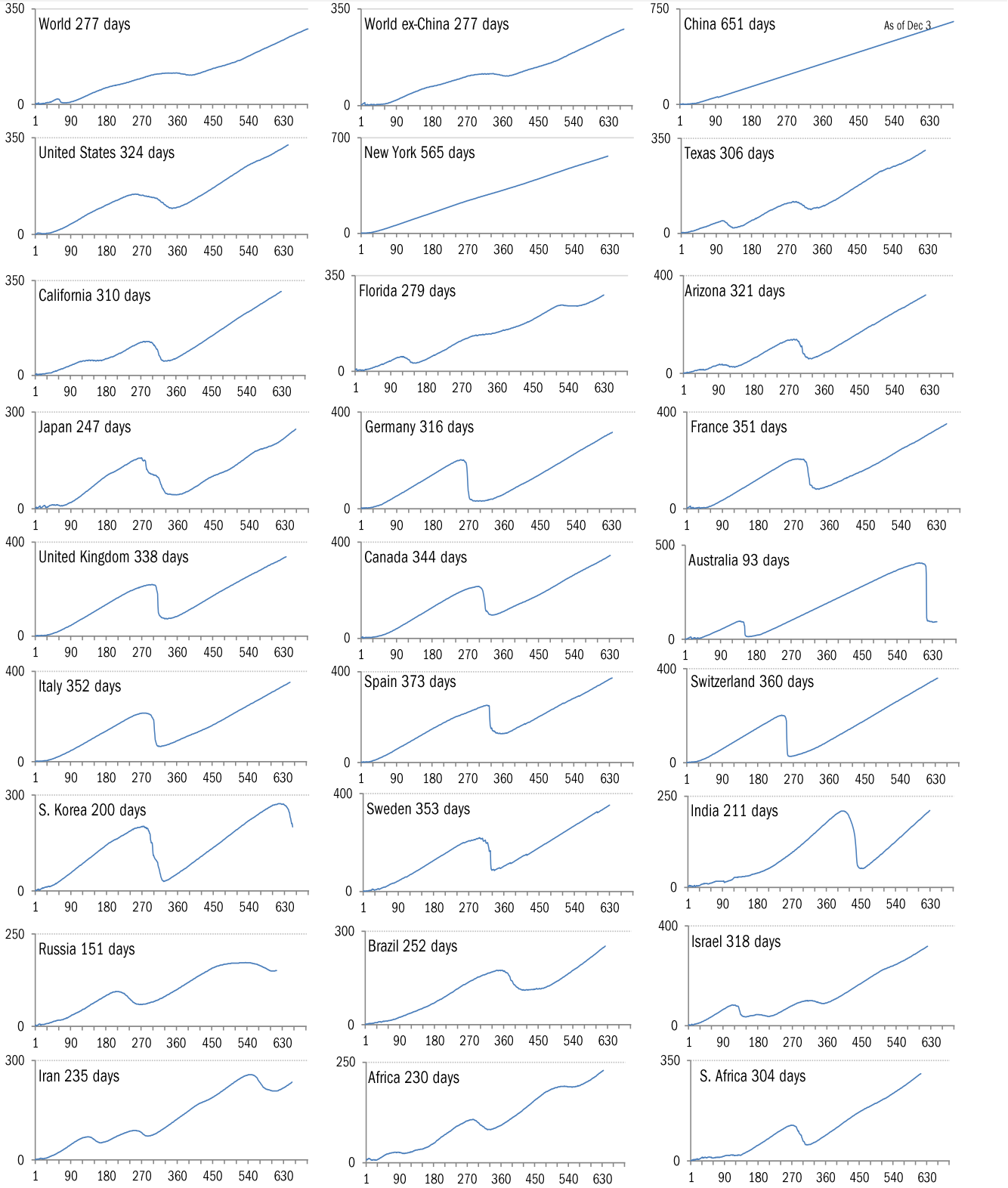


Source: Johns Hopkins, TrendMacro calculations

"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

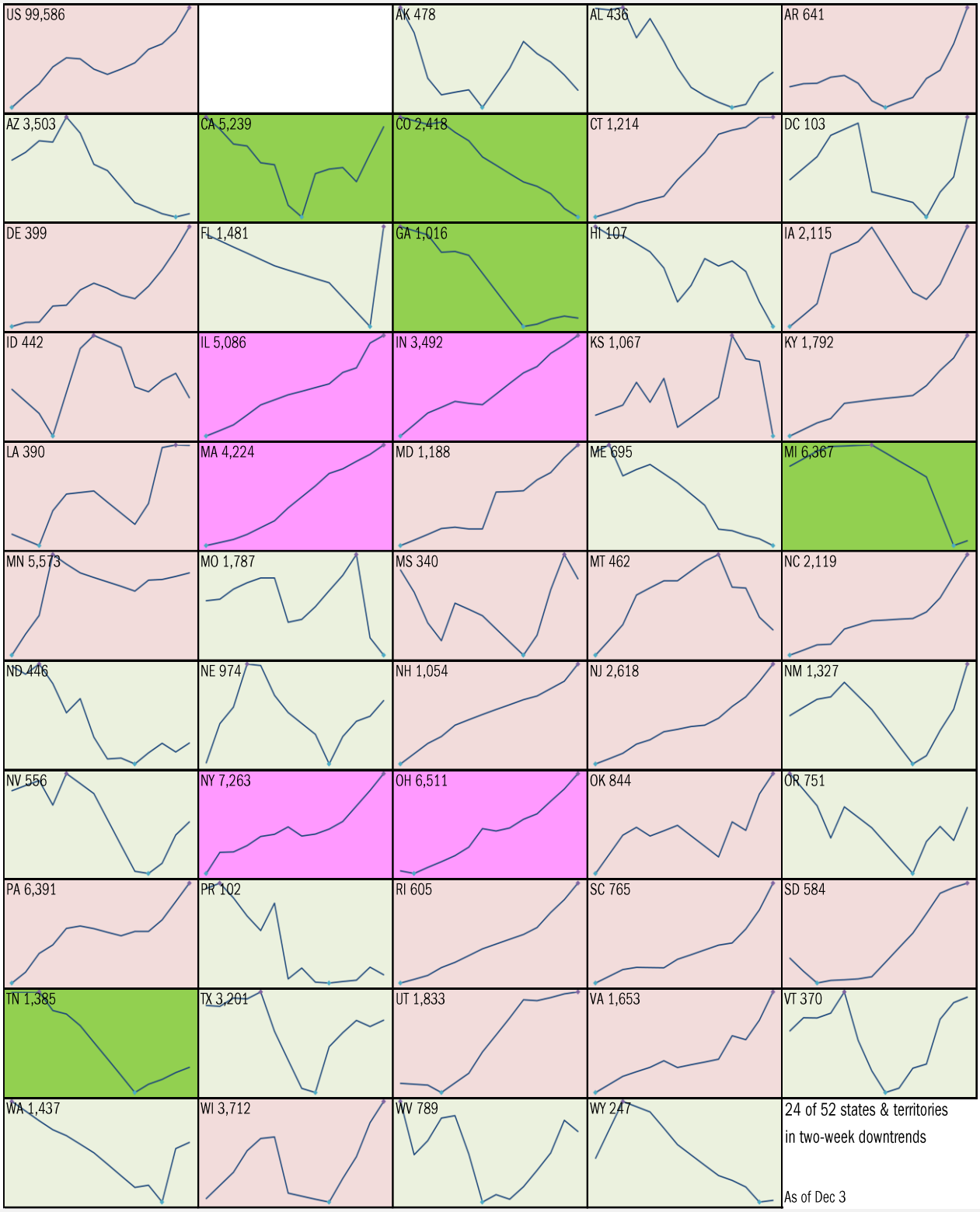


Source: Johns Hopkins, TrendMacro calculations

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

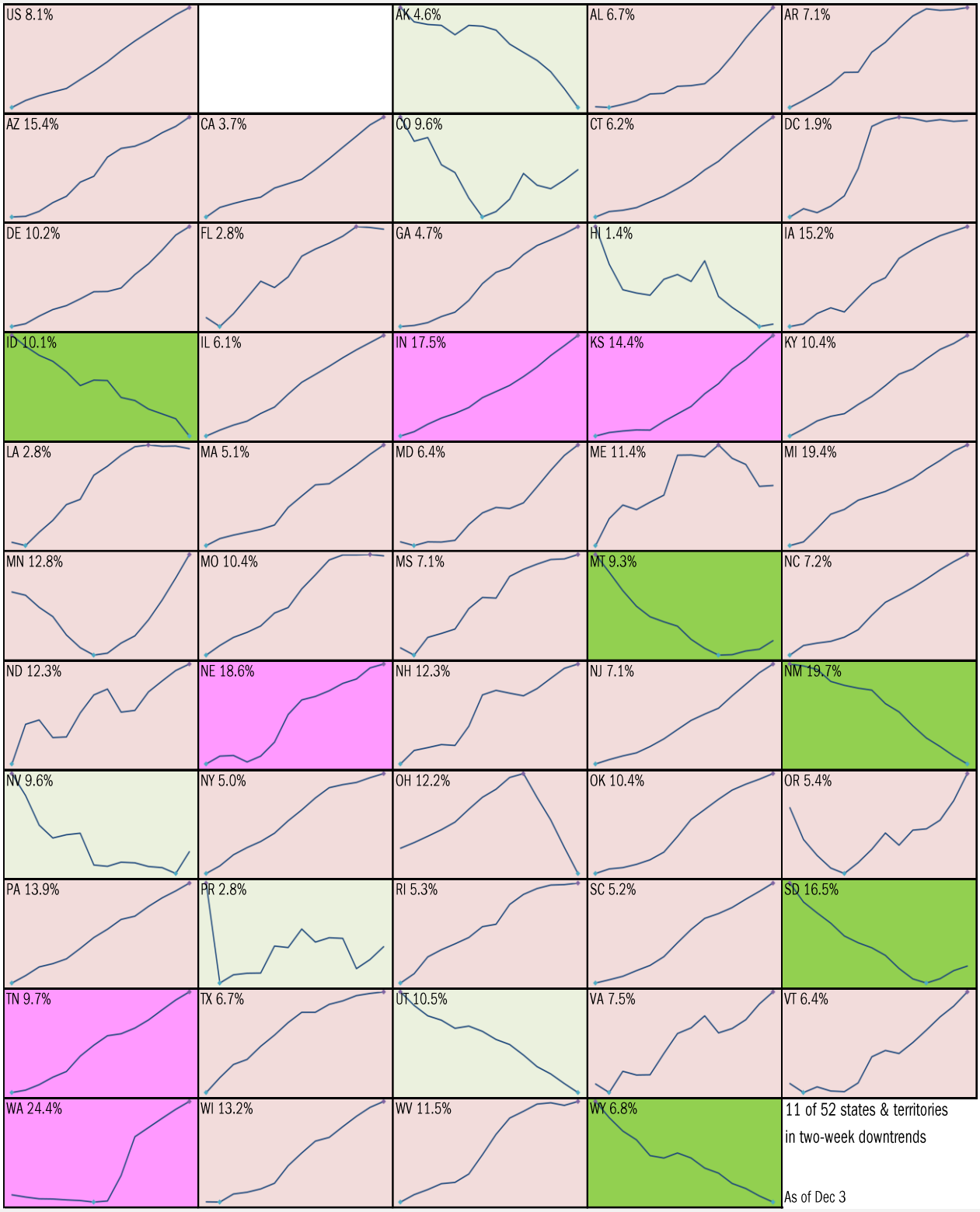


Source: Johns Hopkins, TrendMacro calculations

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

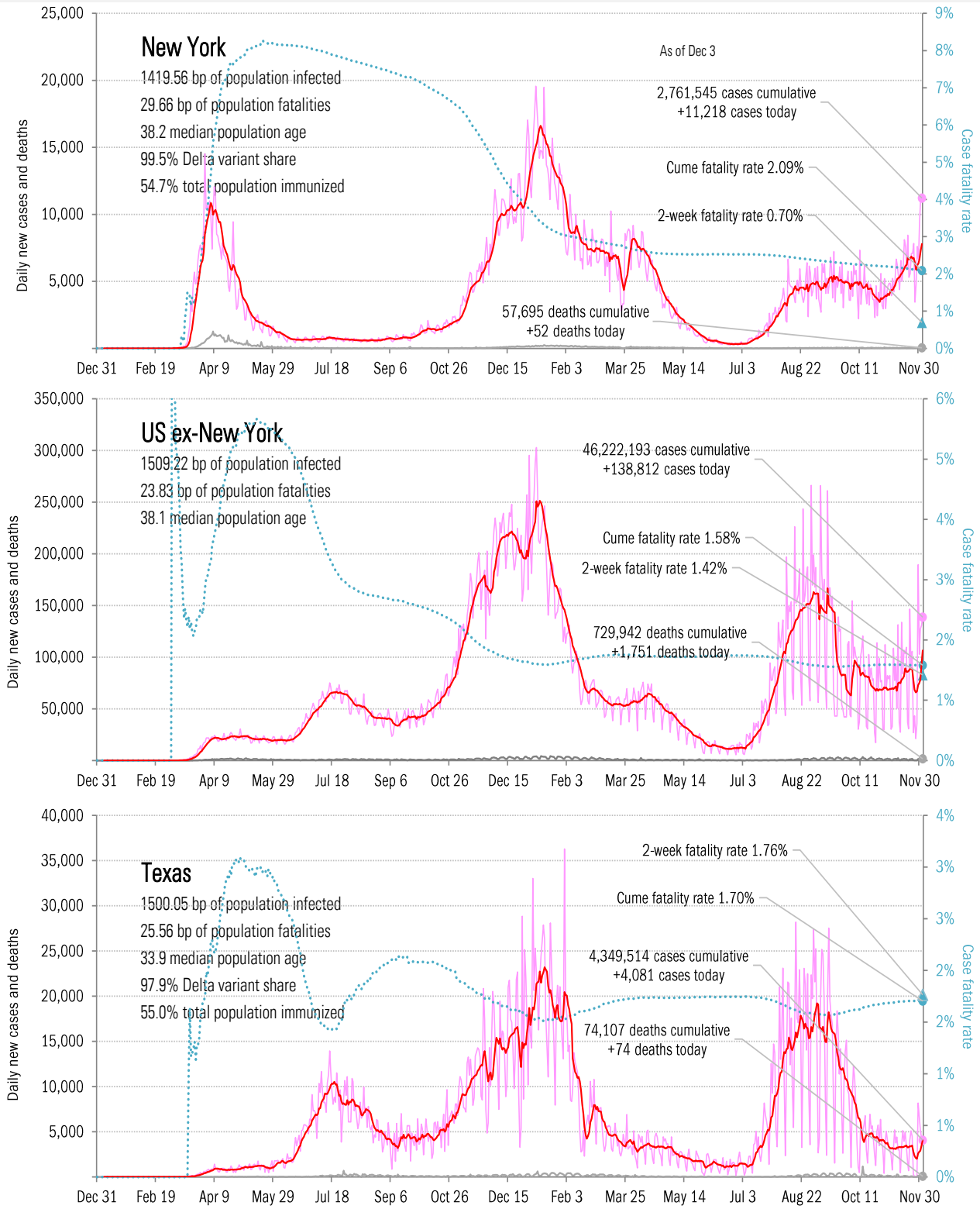
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

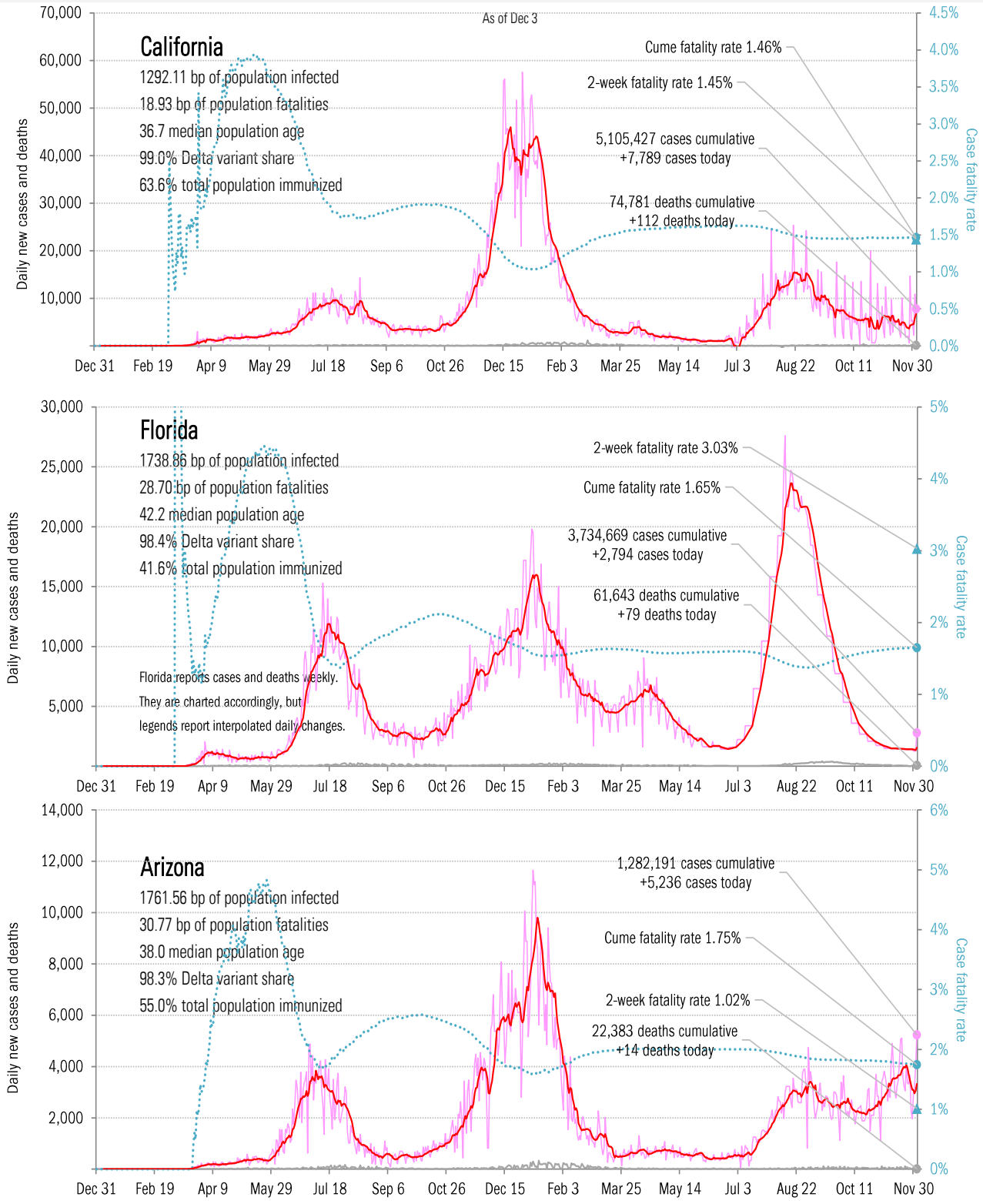
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

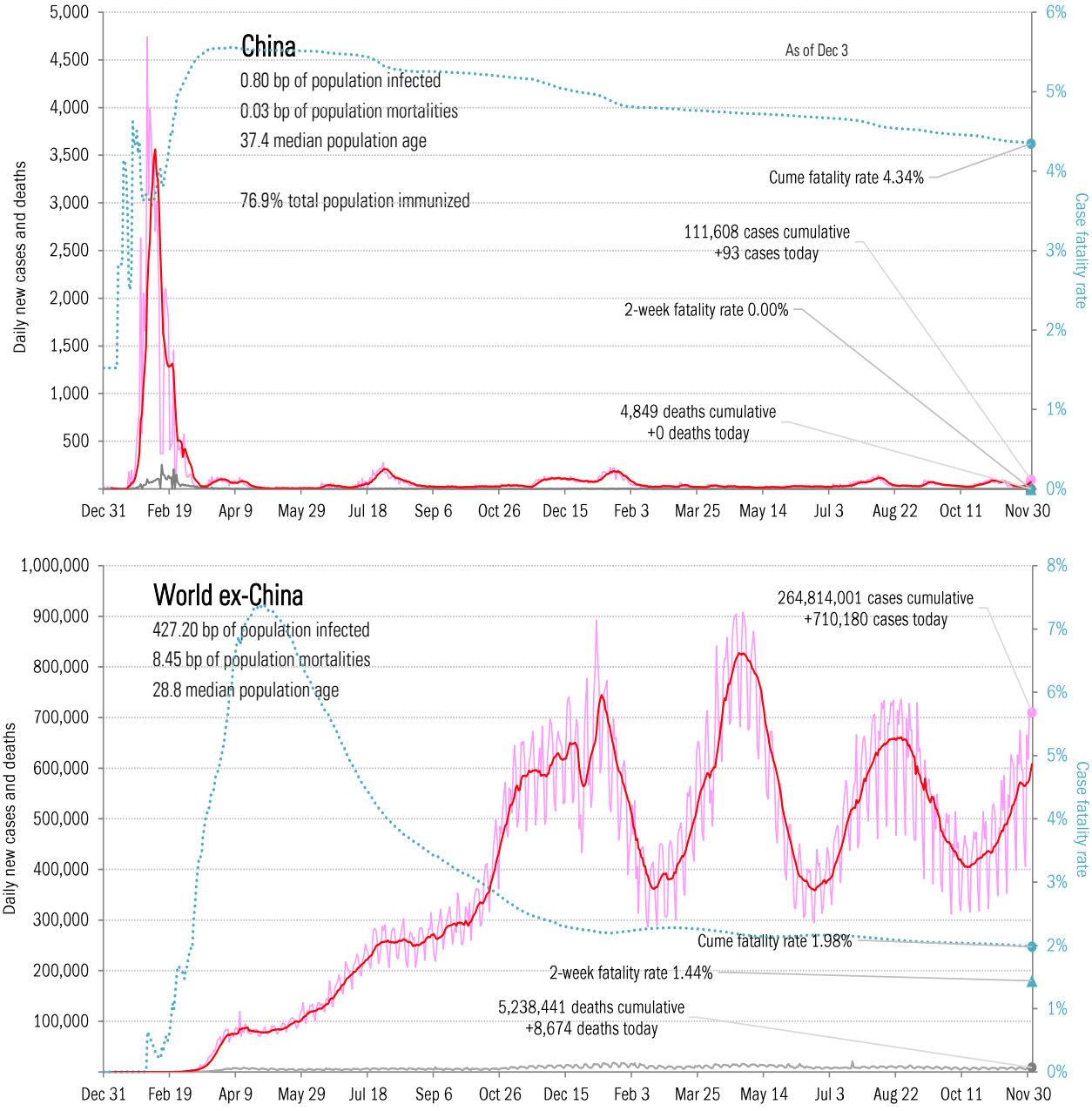
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

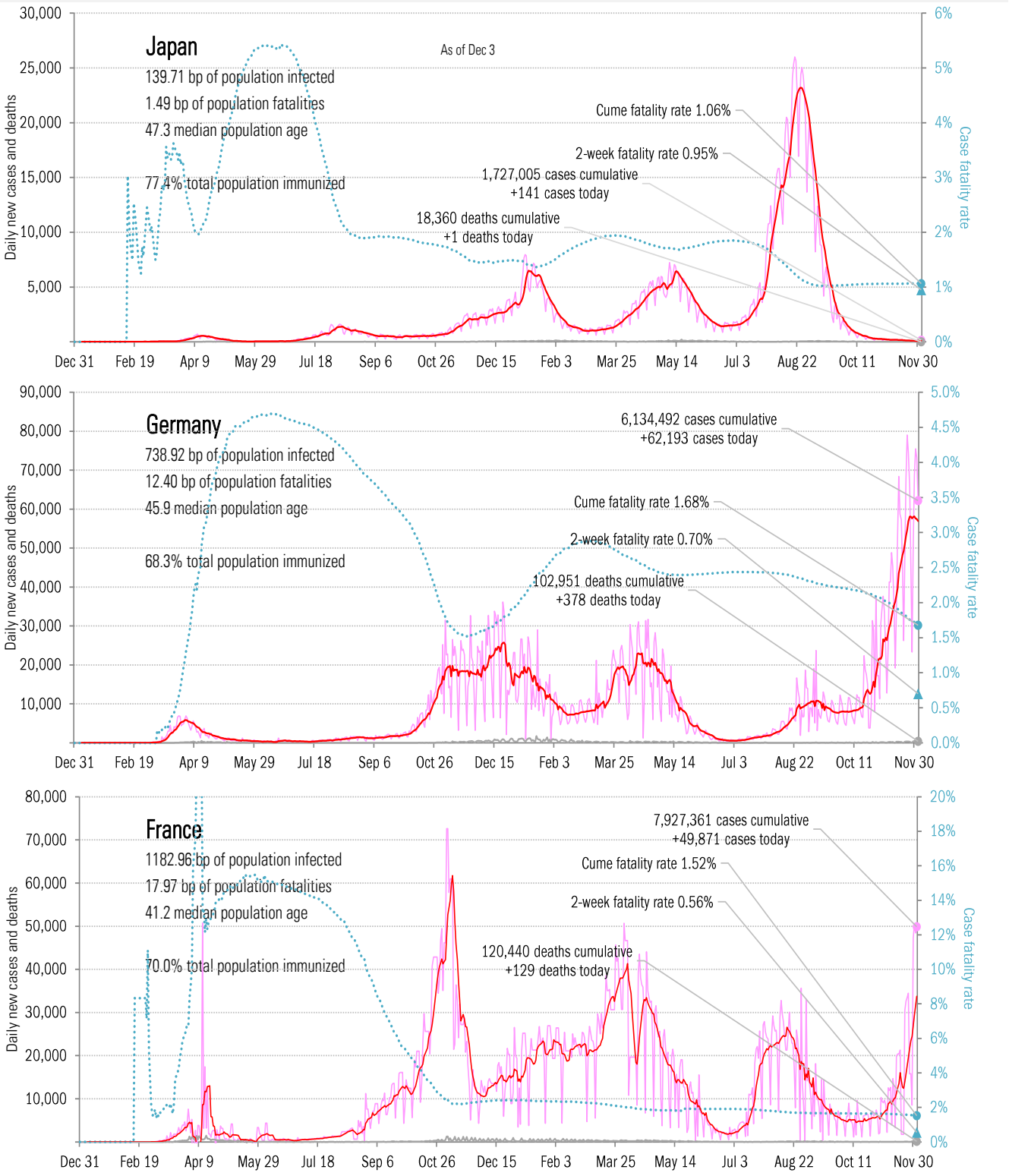
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

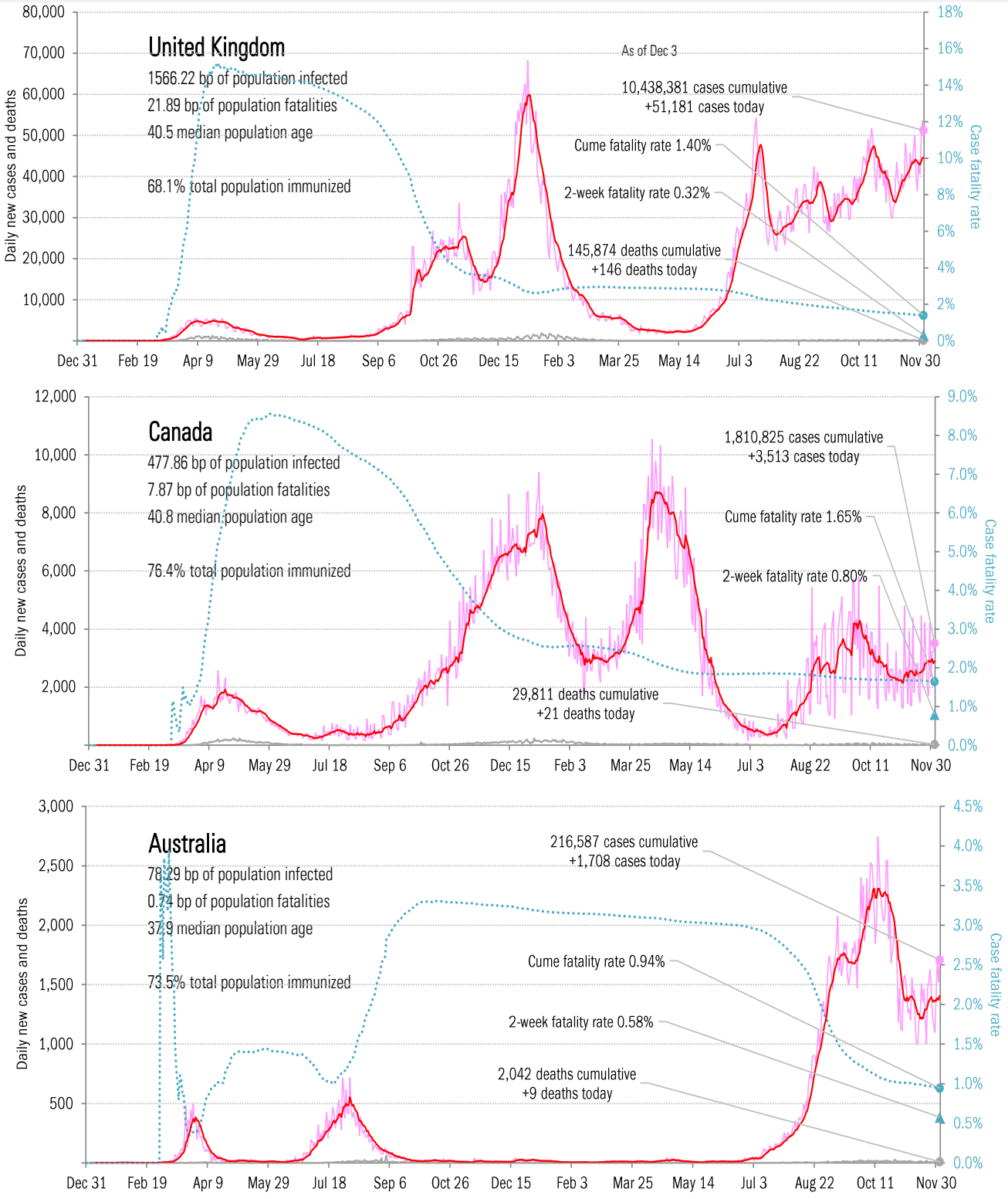
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

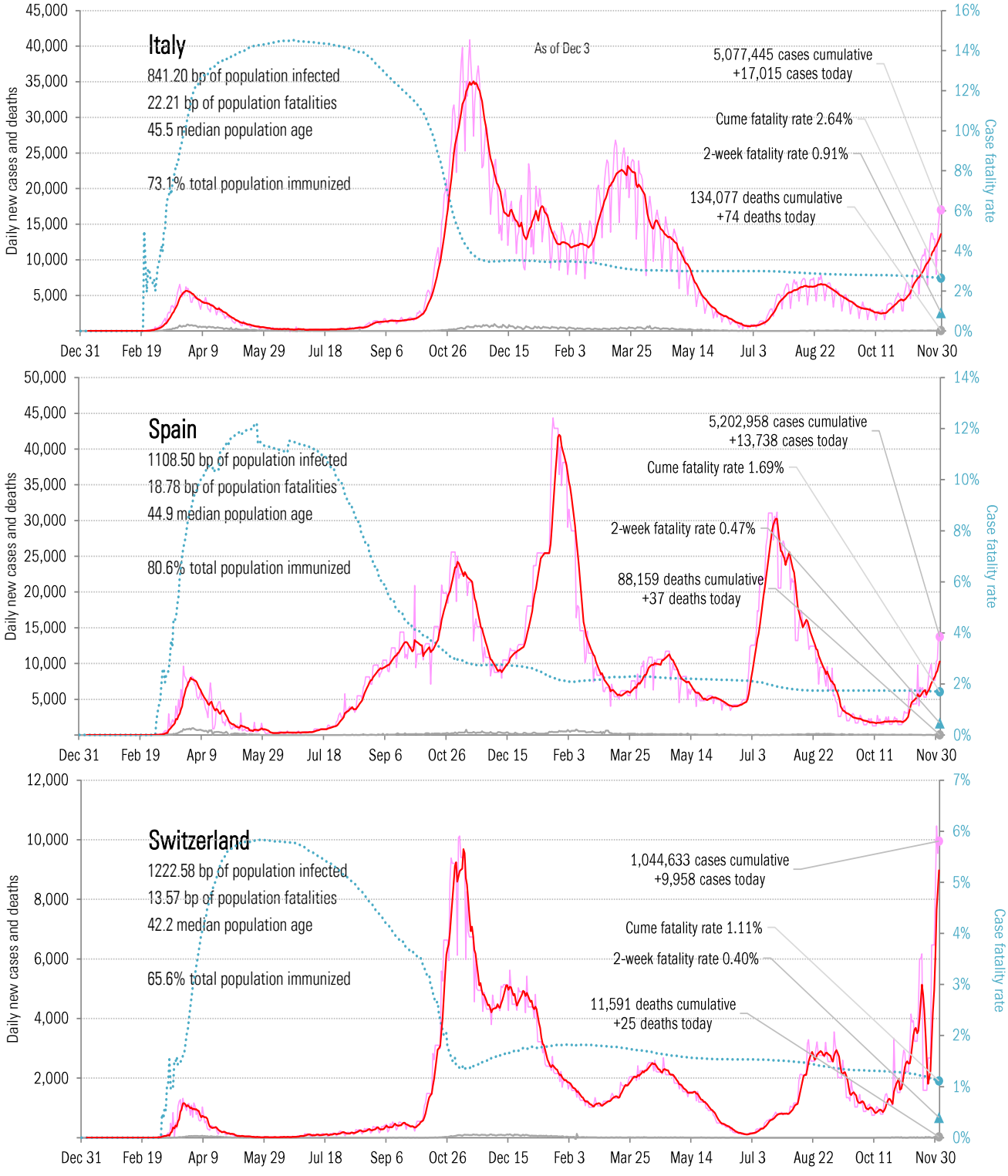
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

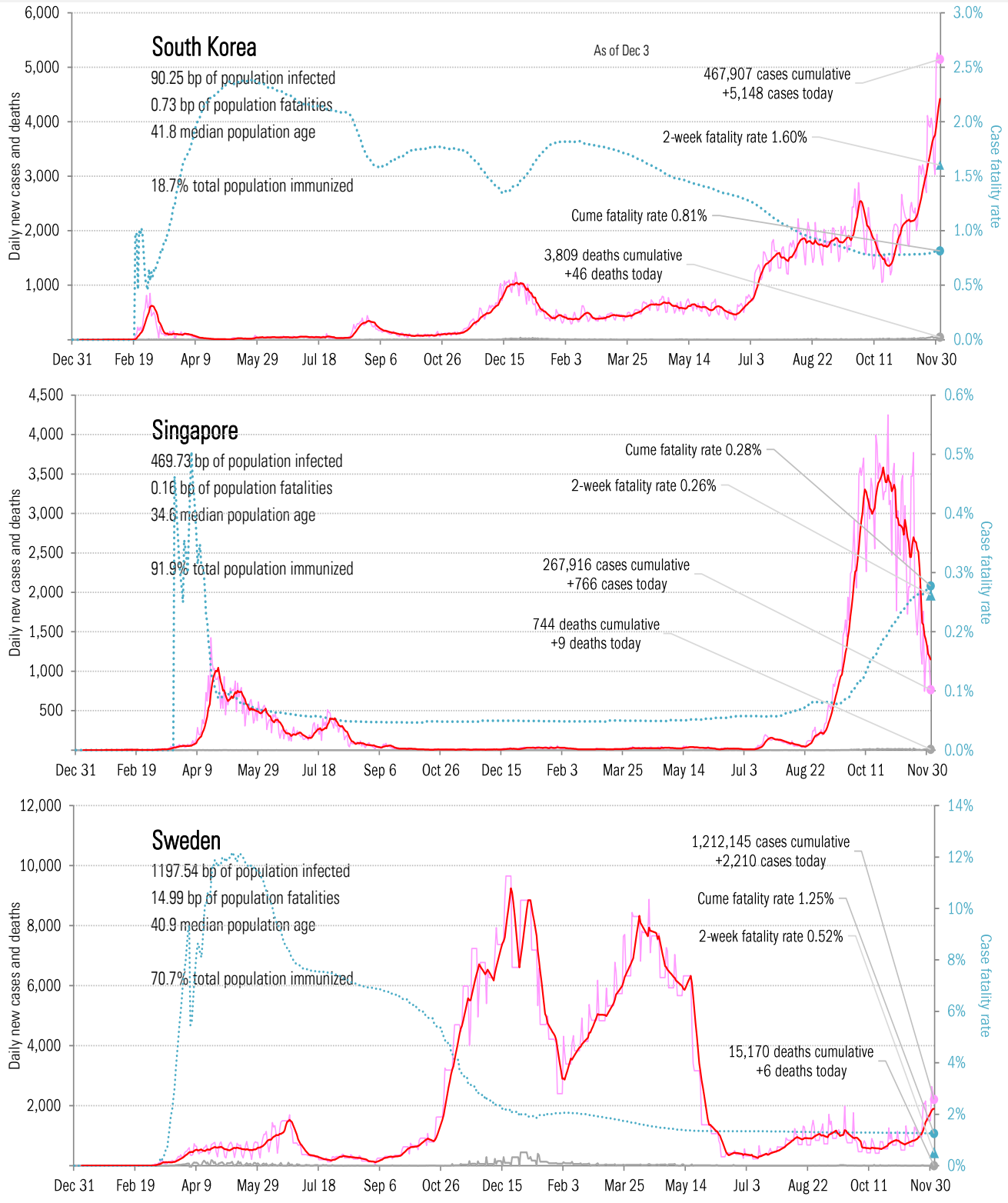
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

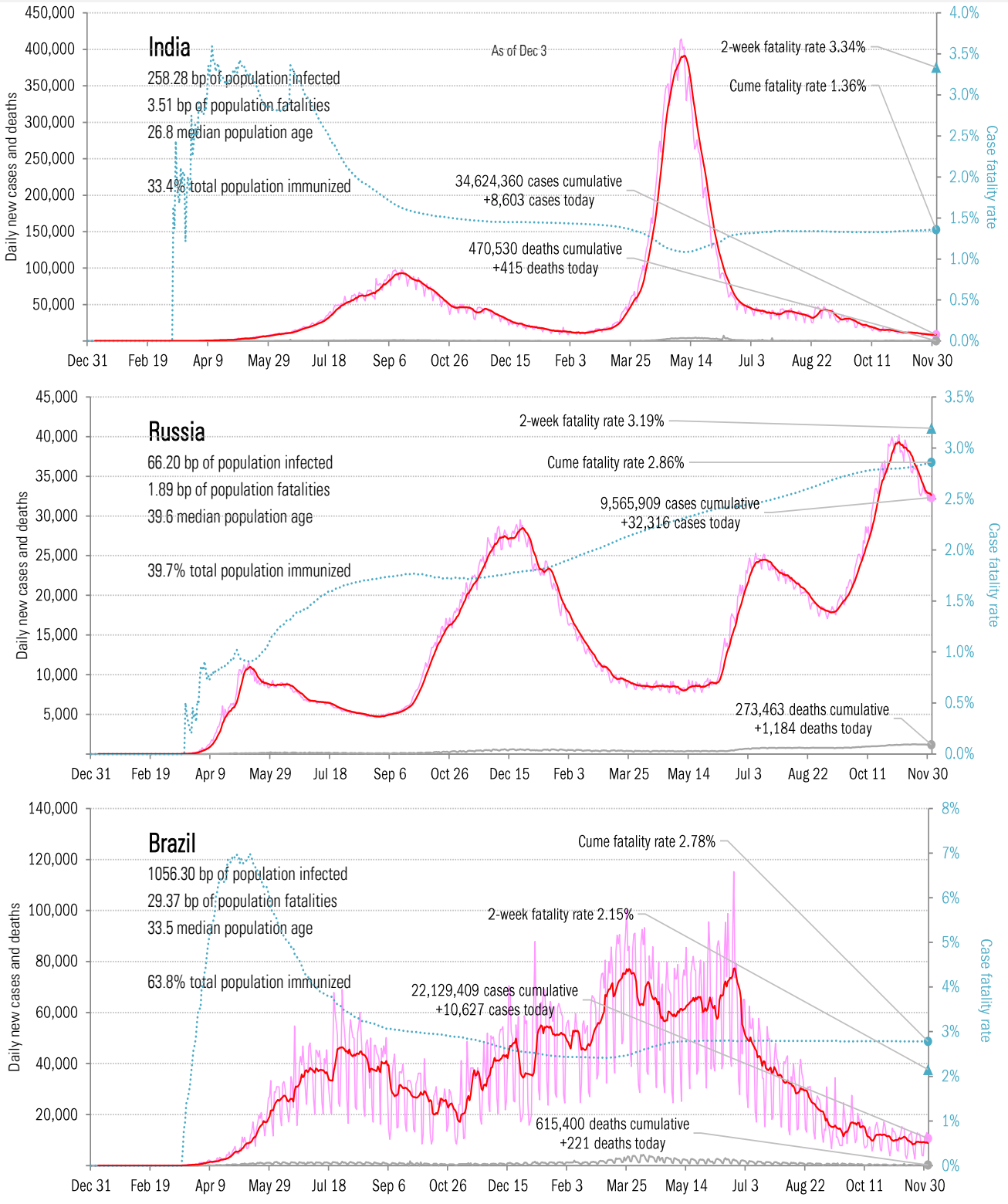
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

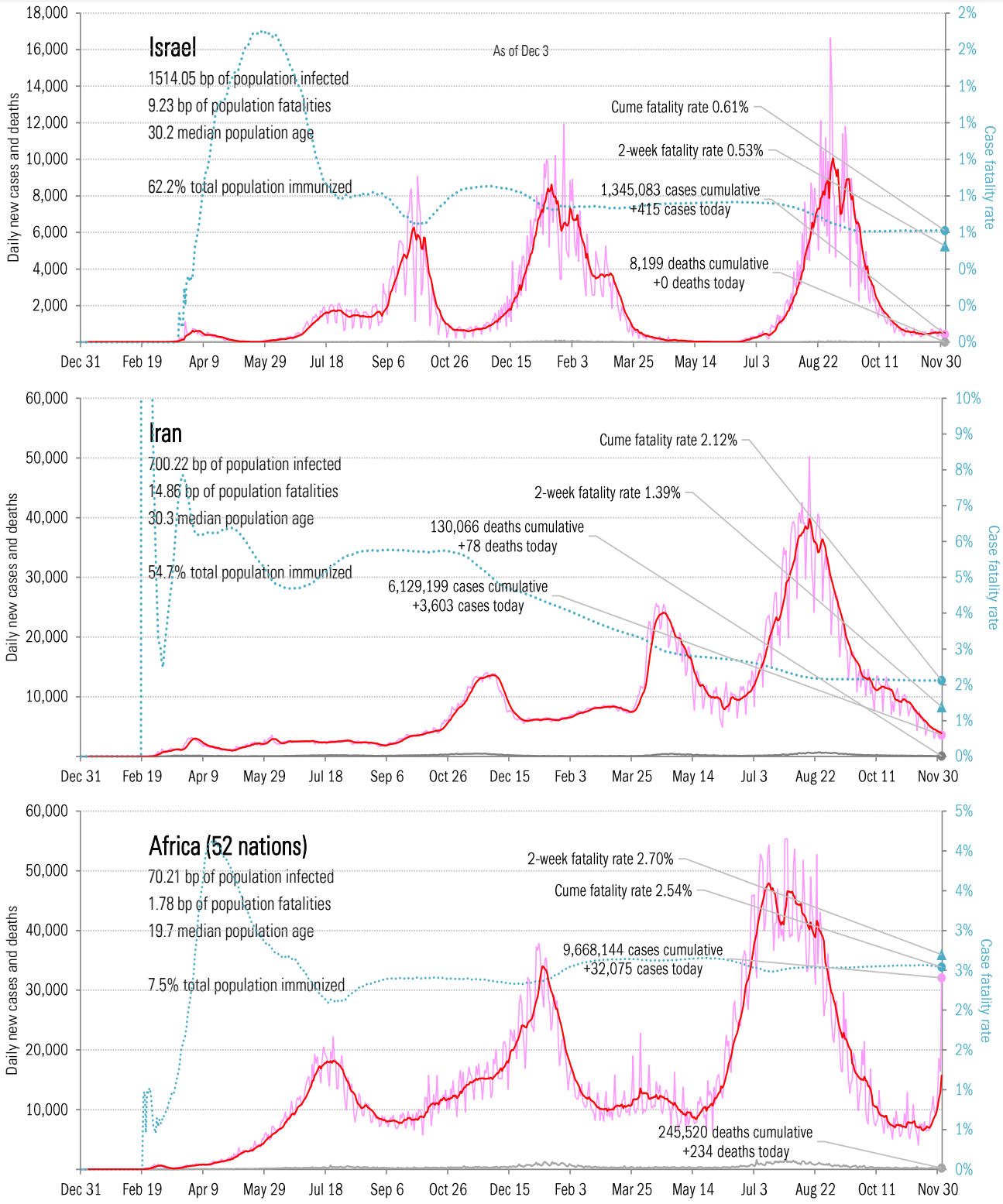
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

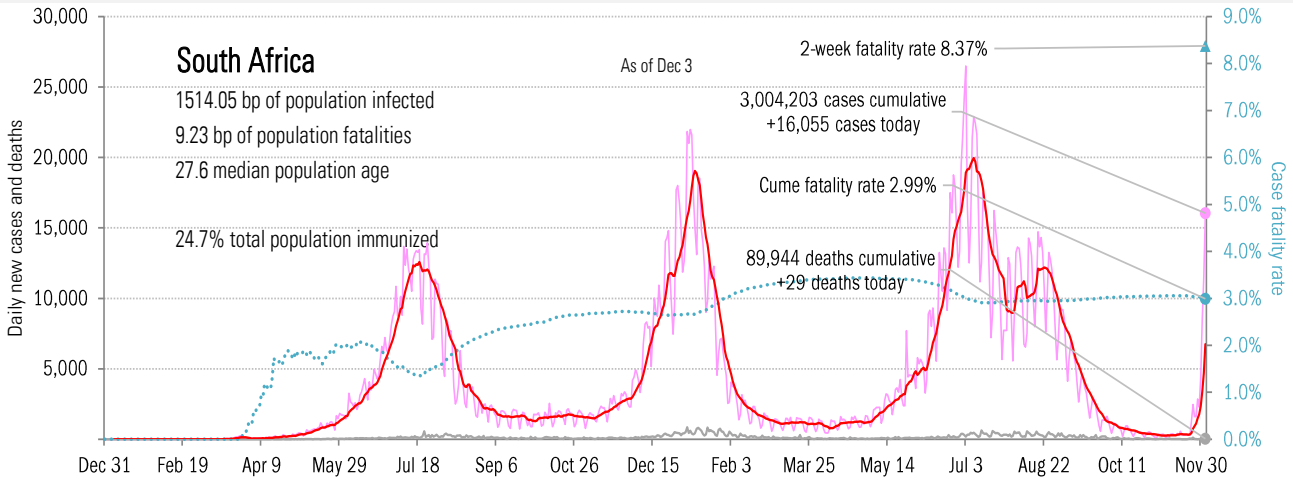
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations