Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

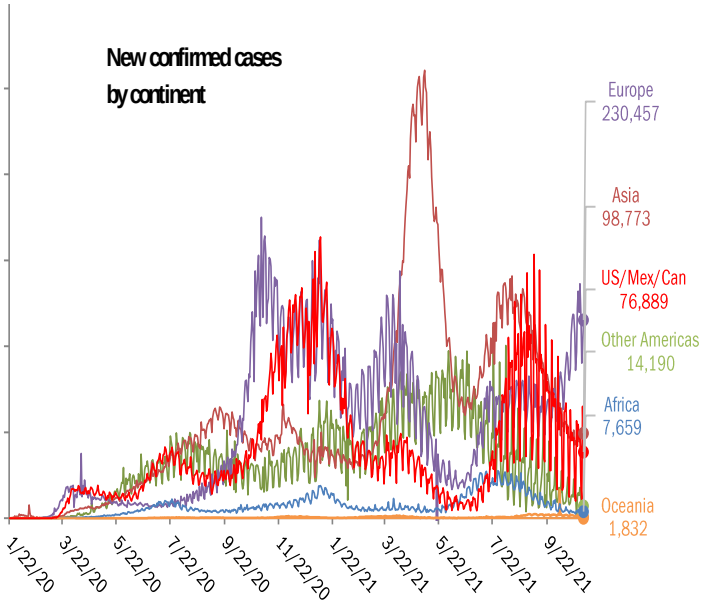
Wednesday, November 3, 2021

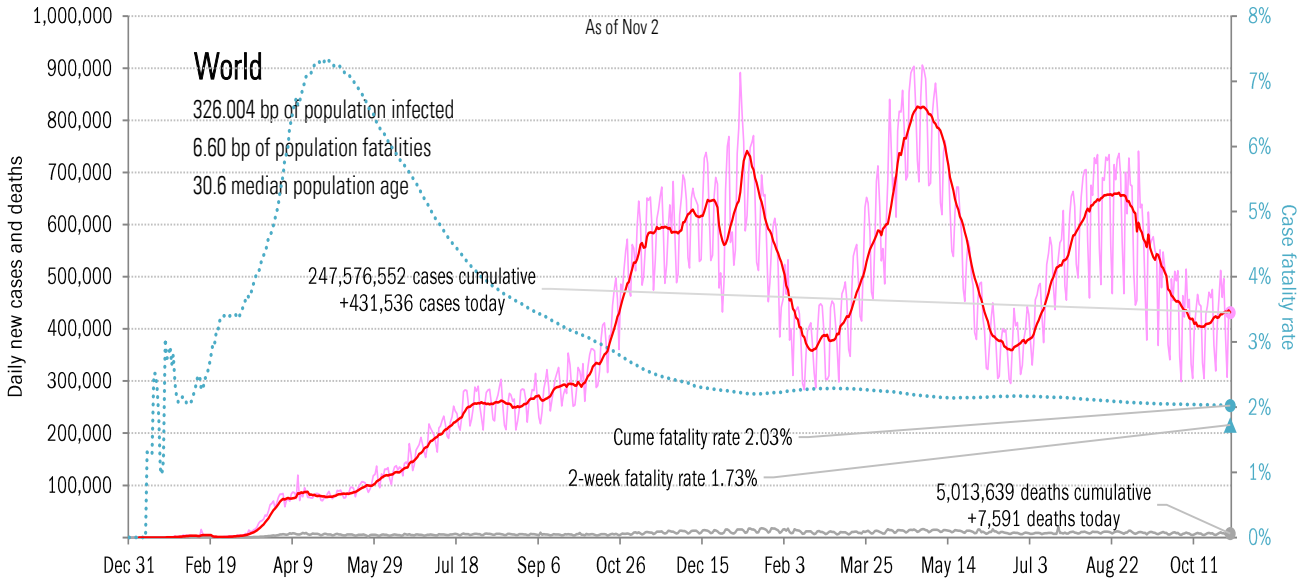
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	+74,490	United States	+1,566
Russia	+37,927	Russia	+1,144
United Kingdom	+33,712	Ukraine	+734
Germany	+30,691	Romania	+591
Turkey	+29,796	India	+311
Ukraine	+20,536	United Kingdom	+292
Thailand	+15,253	Turkey	+224
India	+11,903	Germany	+193
Romania	+11,073	Iran	+160
Iran	+10,104	Brazil	+149
	+275,485		+5,364
World	+431,536	World	+7,591
Top ten	64%	Top ten	71%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

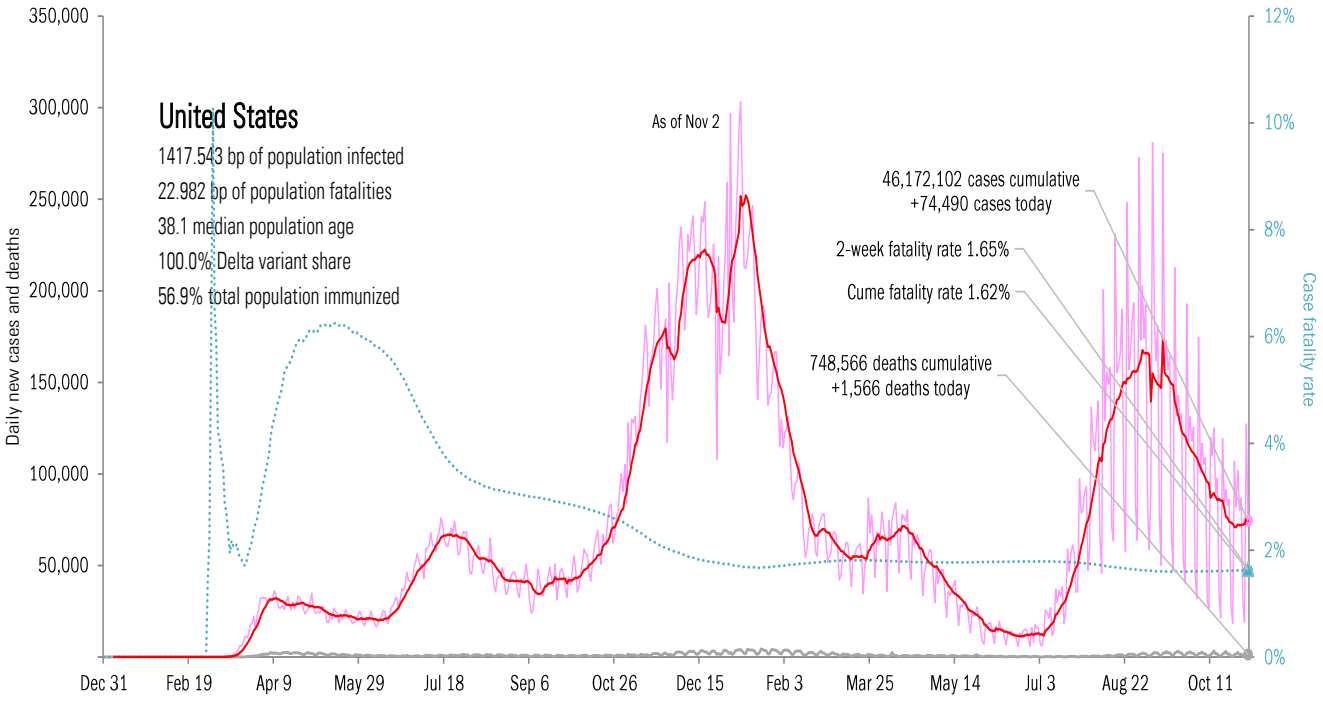
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
MN	+7,031	OH	+236	GA	+49	CA	4,936,466	CA	72,188	TX	375,064	RI	84%	RI	90%
PA	+5,880	MO	+124	NE	+8	TX	4,247,209	TX	71,380	FL	318,624	MA	83%	ID	89%
TX	+5,053	TX	+118	DE	+7	FL	3,693,902	FL	59,718	CA	310,598	PA	83%	NM	85%
CA	+4,267	FL	+105	ME	+4	NY	2,567,747	NY	56,533	NY	164,074	MD	82%	KY	84%
OH	+3,917	CA	+77	MN	+4	IL	1,704,031	PA	31,530	GA	159,631	WA	82%	AL	83%
WI	+3,365	PA	+75	PR	+3	GA	1,637,571	GA	29,237	OH	123,707	MI	81%	TX	83%
TN	+3,292	GA	+63	NH	+2	PA	1,570,819	IL	28,291	PA	116,991	GA	79%	NH	83%
NY	+2,958	TN	+58	RI	+2	OH	1,551,705	NJ	28,004	KY	111,292	MN	79%	PA	82%
IA	+2,753	AL	+56	AS	+0	NC	1,483,678	OH	24,763	IL	104,885	NY	79%	CO	82%
CO	+2,396	IN	+46	GU	+0	MI	1,285,518	MI	23,730	MI	91,684	MO	78%	GA	81%
	+40,912		+958		+79		24,678,646		425,374		1,876,550				
All states	+74,490		+1,566		-1013	All states	46,172,102		748,566		3,354,178	All states	70%		67%
Top ten	55%		61%		-8%	Top ten	53%		57%		56%	Median	73%		74%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-12,136	CA	-84	CA	-143	DE	+40 bp
MI	-10,415	MI	-68	CO	-95	IA	+20 bp
CO	-4,998	NY	-48	IN	-46	SD	+20 bp
NH	-3,953	GA	-46	IA	-43	WY	+20 bp
IL	-3,743	VA	-41	NY	-39	AK	+10 bp



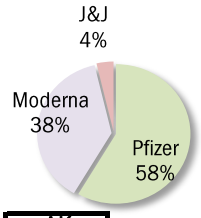
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	435,772,452				+0.940 million
Boosters	20,107,388				+0.605 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	227,629,489	68%	197,731,298	59%	+0.133 million
Age 12 to 17	14,200,229	60%	11,919,338	50%	+0.015 million
Age 18 to 64	157,228,358	77%	136,556,119	67%	+0.100 million
Age 65 and over	55,087,616	100%	48,333,985	88%	+0.018 million

Immunity	Full	Partial
US	56.9%	66.0%
UK	67.1%	73.3%
France	68.0%	75.8%
Spain	79.8%	81.4%
Germany	66.2%	68.9%
Italy	71.6%	77.3%
Australia	65.1%	74.7%
Israel	65.3%	71.0%
Canada	74.5%	78.5%
Japan	72.8%	78.0%
Africa	6.0%	8.9%
India	23.9%	52.9%
Brazil	56.4%	74.4%
China	74.1%	76.2%

Global data differs due to sources, timing



Every American >18 immunized in
68 days
by Jan 8, 2022

71.6% of population >18 immunized
16.4% previously tested positive
88.0% vs 60% adult herd immunity

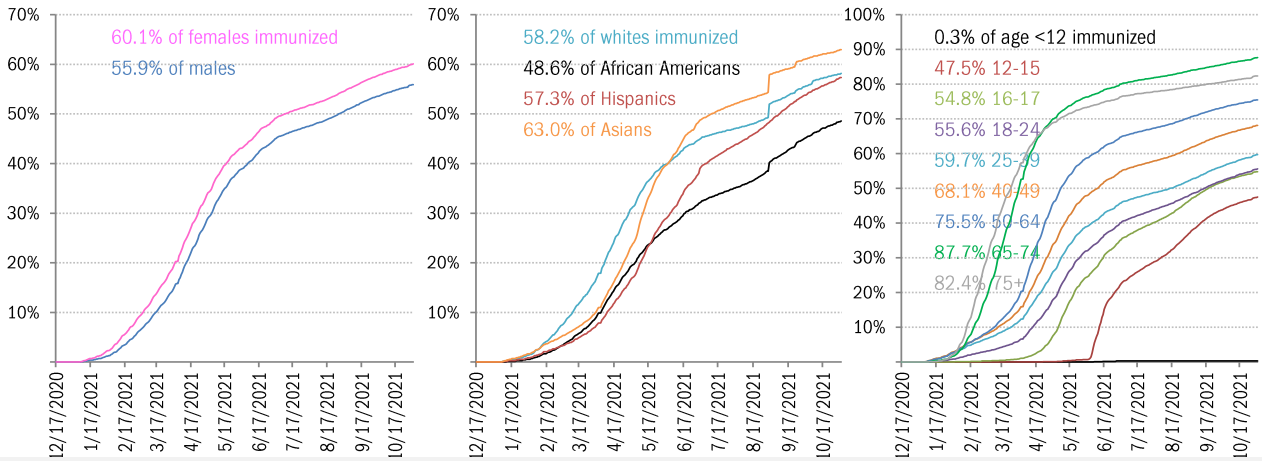
State
At least partial immunity as % population
Full immunity as % population

Best
Middle
Worst

As of Nov 2

					WI					ME
					62.8%					77.0%
					58.4%					70.7%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
69.6%	49.2%	57.0%	53.5%	65.3%	65.8%	58.3%		74.5%	80.0%	77.2%
63.6%	44.0%	50.6%	46.0%	60.0%	60.5%	53.6%		66.8%	71.4%	63.0%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
68.5%	63.5%	51.1%	62.4%	59.8%	53.8%	55.9%	78.3%	75.2%	80.4%	
63.0%	53.1%	44.1%	52.8%	55.7%	49.9%	51.9%	60.6%	66.5%	69.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
74.7%	61.2%	67.8%	61.1%	57.0%	57.6%	49.0%	71.3%	73.1%	79.3%	78.3%
61.4%	53.7%	61.7%	56.3%	49.8%	50.8%	41.0%	63.2%	66.3%	70.8%	71.0%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	61.4%	72.3%	62.7%	58.1%	54.7%	64.8%	57.7%	75.0%	69.4%	
	53.2%	62.2%	53.3%	48.1%	47.8%	52.8%	50.1%	62.6%	60.1%	
			OK	LA	MS	AL	GA			
			59.6%	53.9%	52.1%	54.6%	56.9%			
			50.1%	47.7%	45.7%	44.8%	48.2%			
HI			TX					FL		PR
79.0%			61.5%					69.2%		82.3%
59.8%			53.5%					59.8%		73.6%

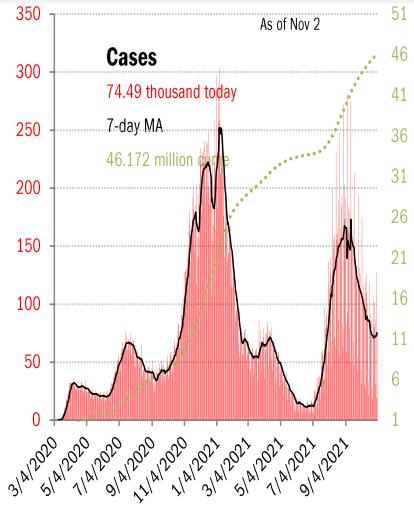
The demographics of US vaccination

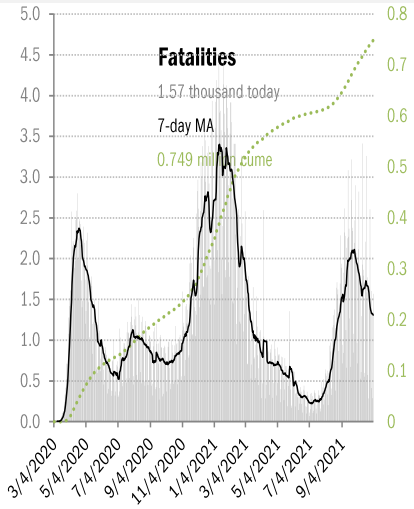


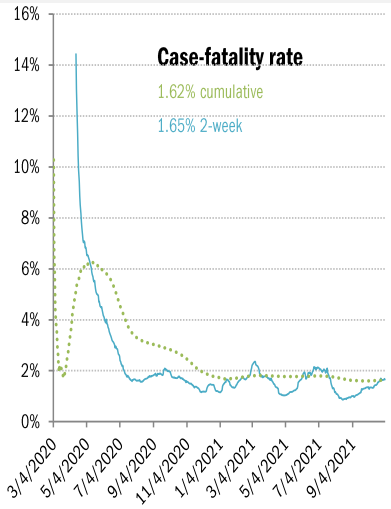
Source: CDC, CDC, Our World in Data, TrendMacro calculations

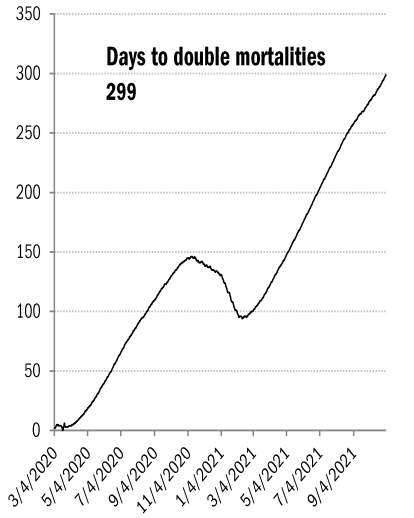
US deep-dive

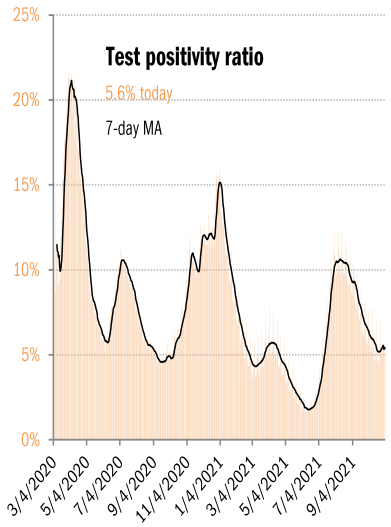
National and state-by-state data do not line up because of different sources

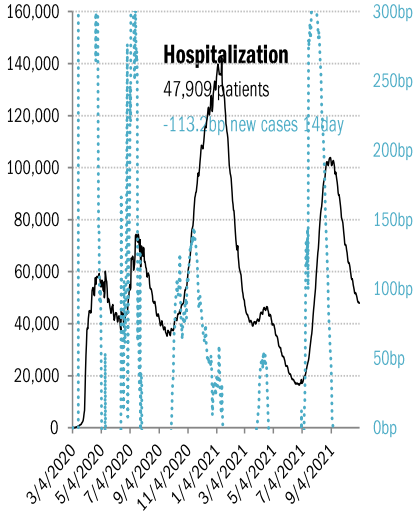


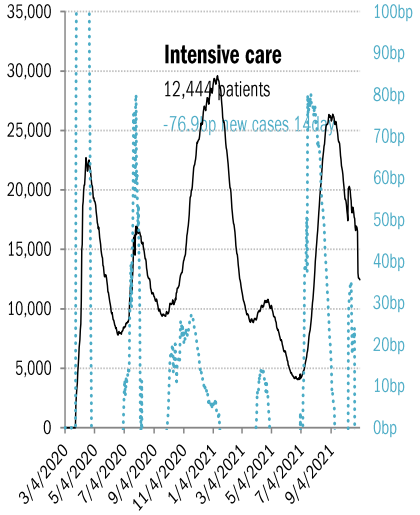


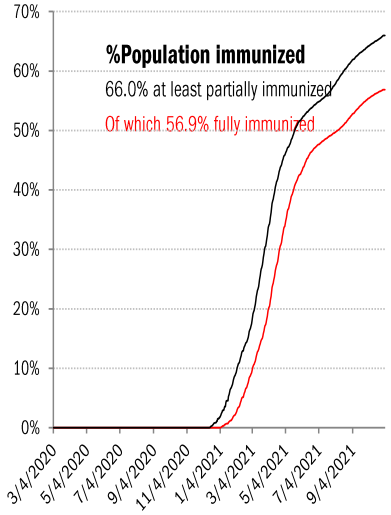












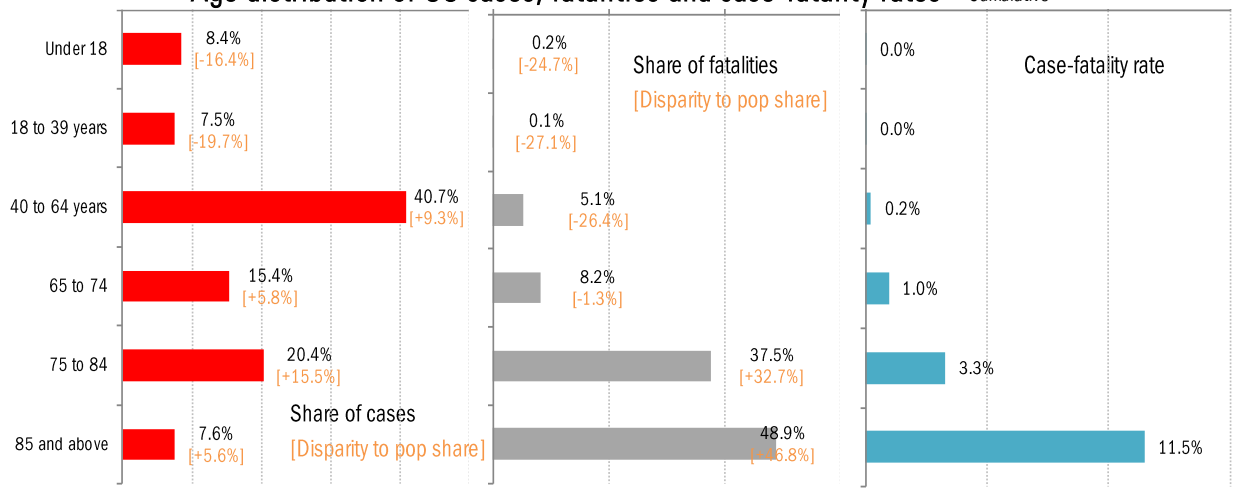
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

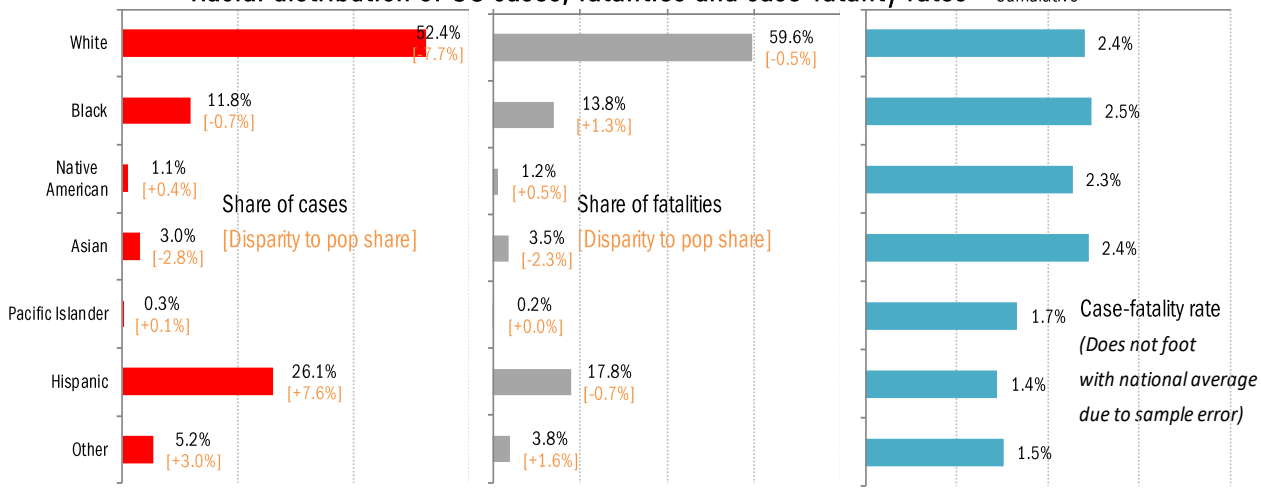
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



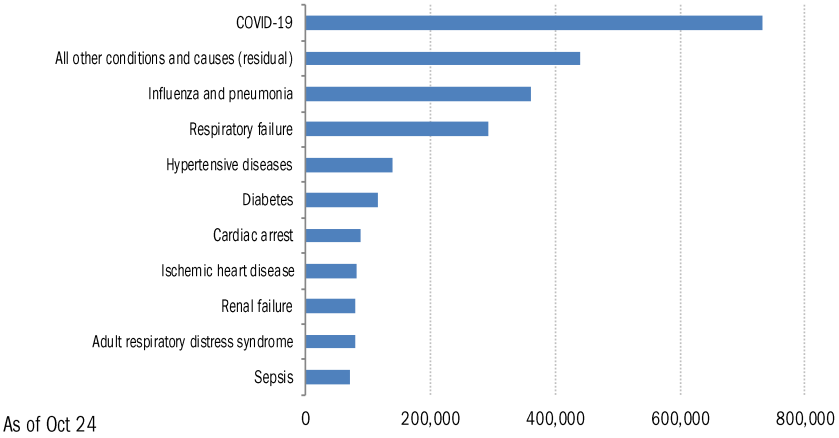
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Oct 24

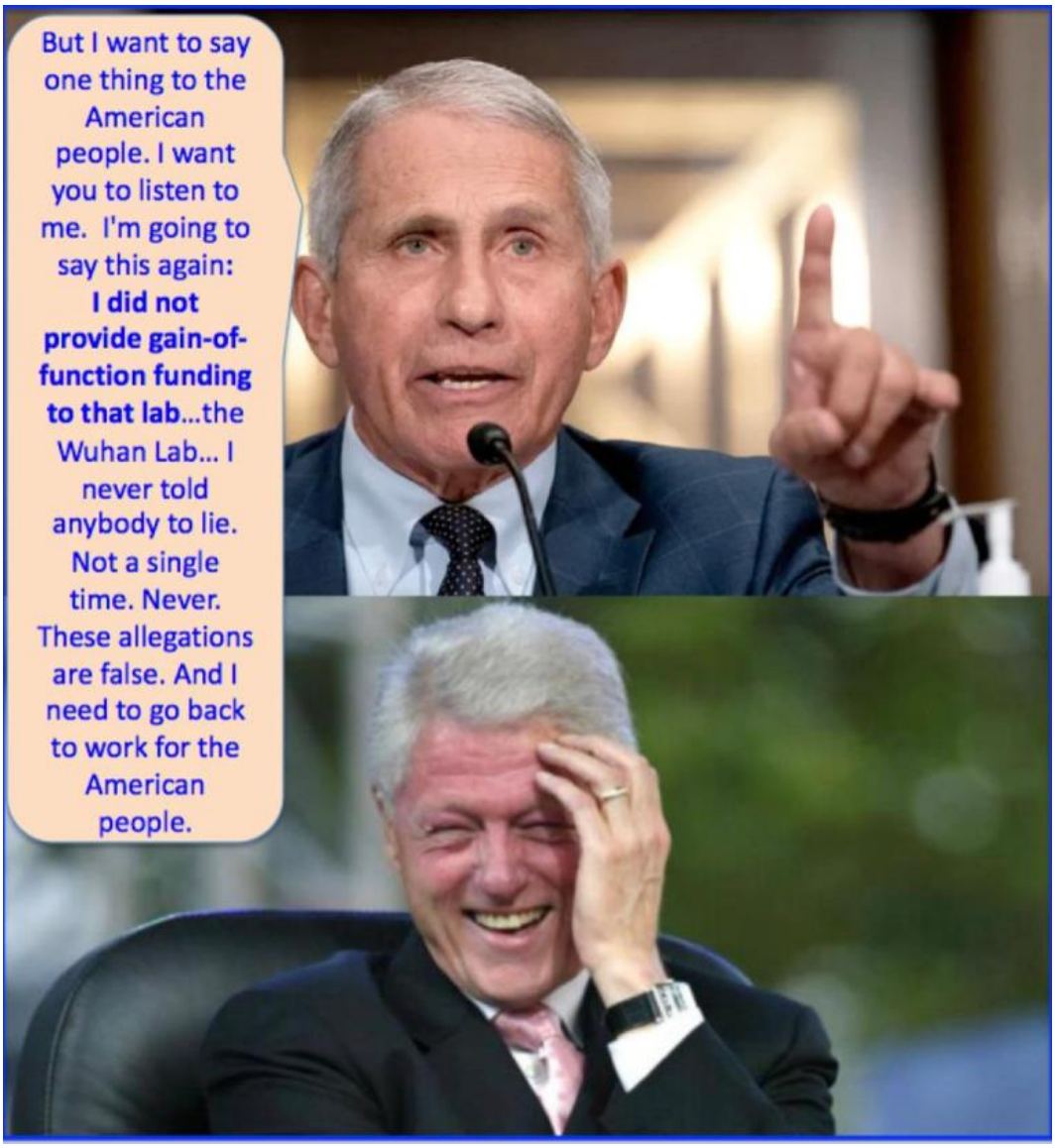
For over 5% of these deaths, COVID-19 was the only cause mentioned on the death certificate. For deaths with conditions or causes in addition to COVID-19, on average, there were 4.0 additional conditions or causes per death.

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

Half of today's 8-year-olds are on track to be obese by 2030
Zeta Cross
Center Square
October 30, 2021

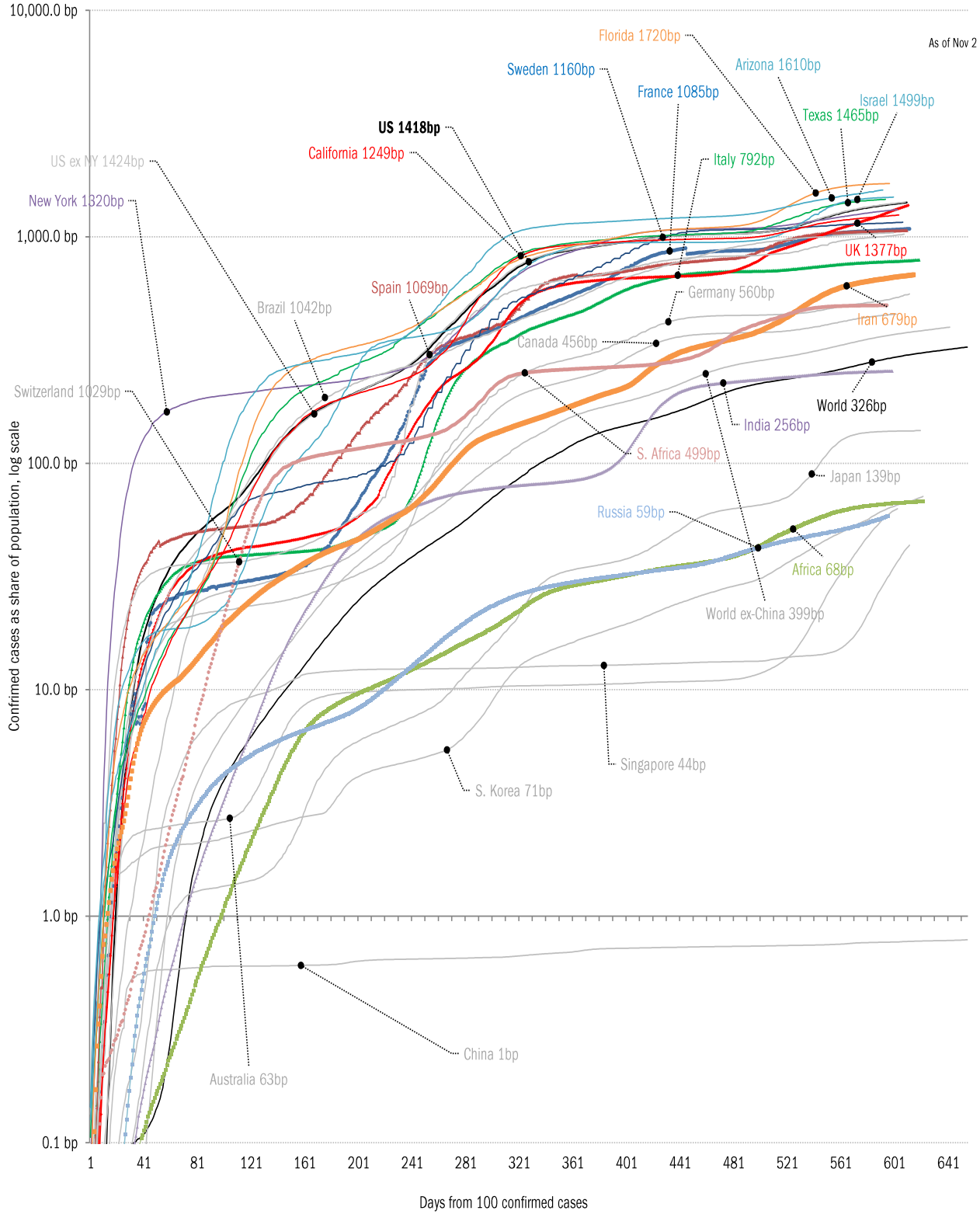
Meme of the day



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

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

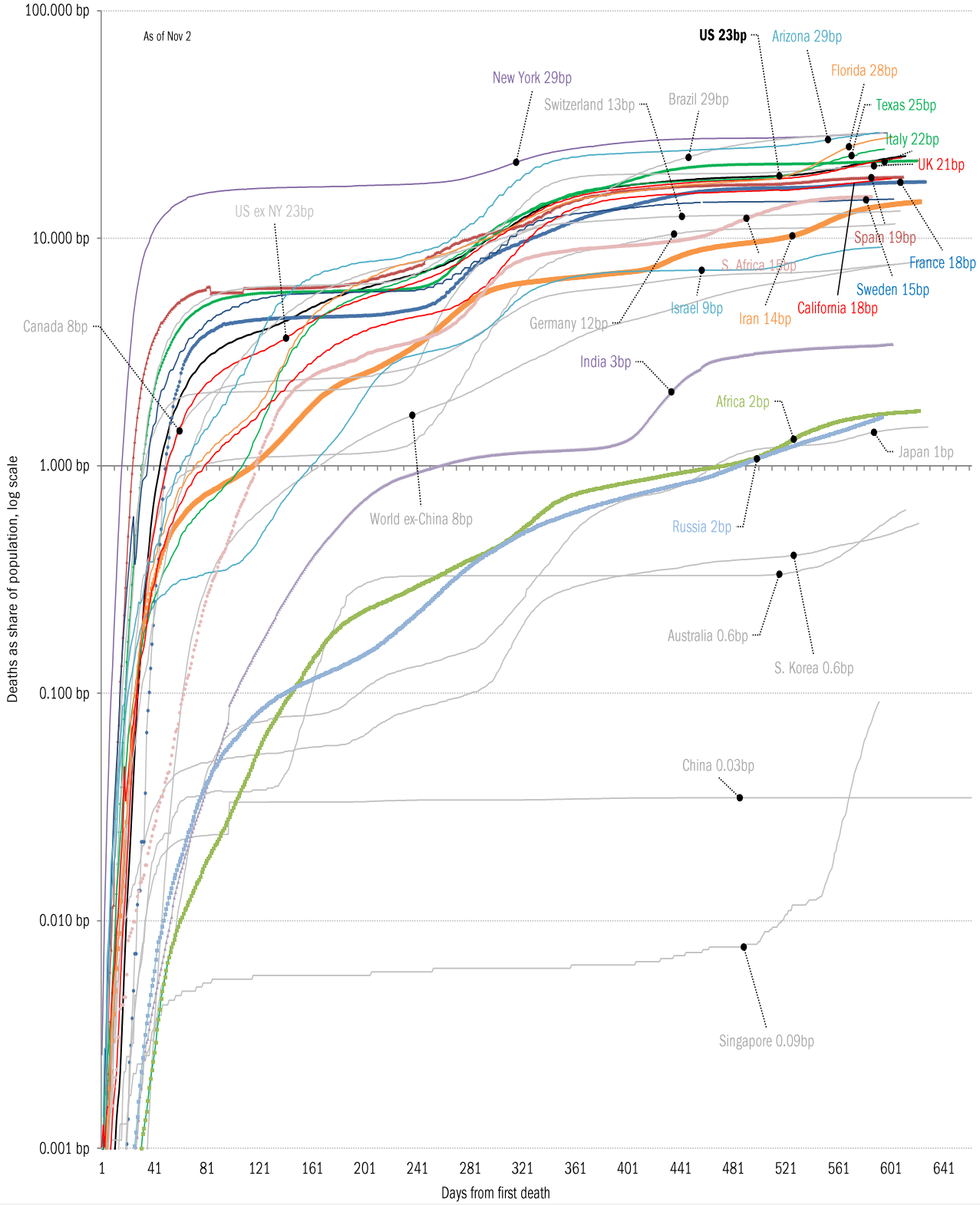
Share of infected population from first day with 100 confirmed cases, log scale



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

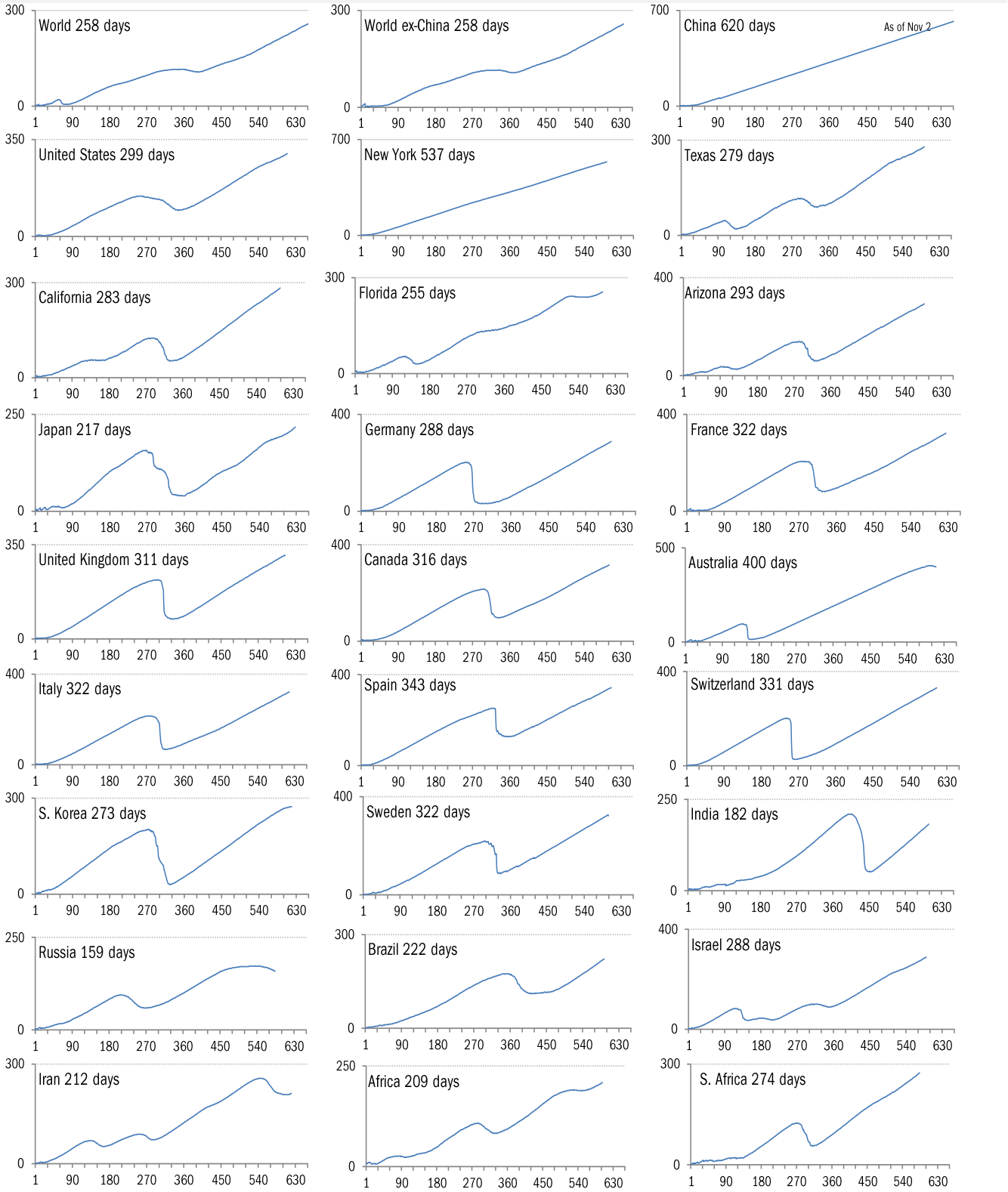


Source: Johns Hopkins, TrendMacro calculations

"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

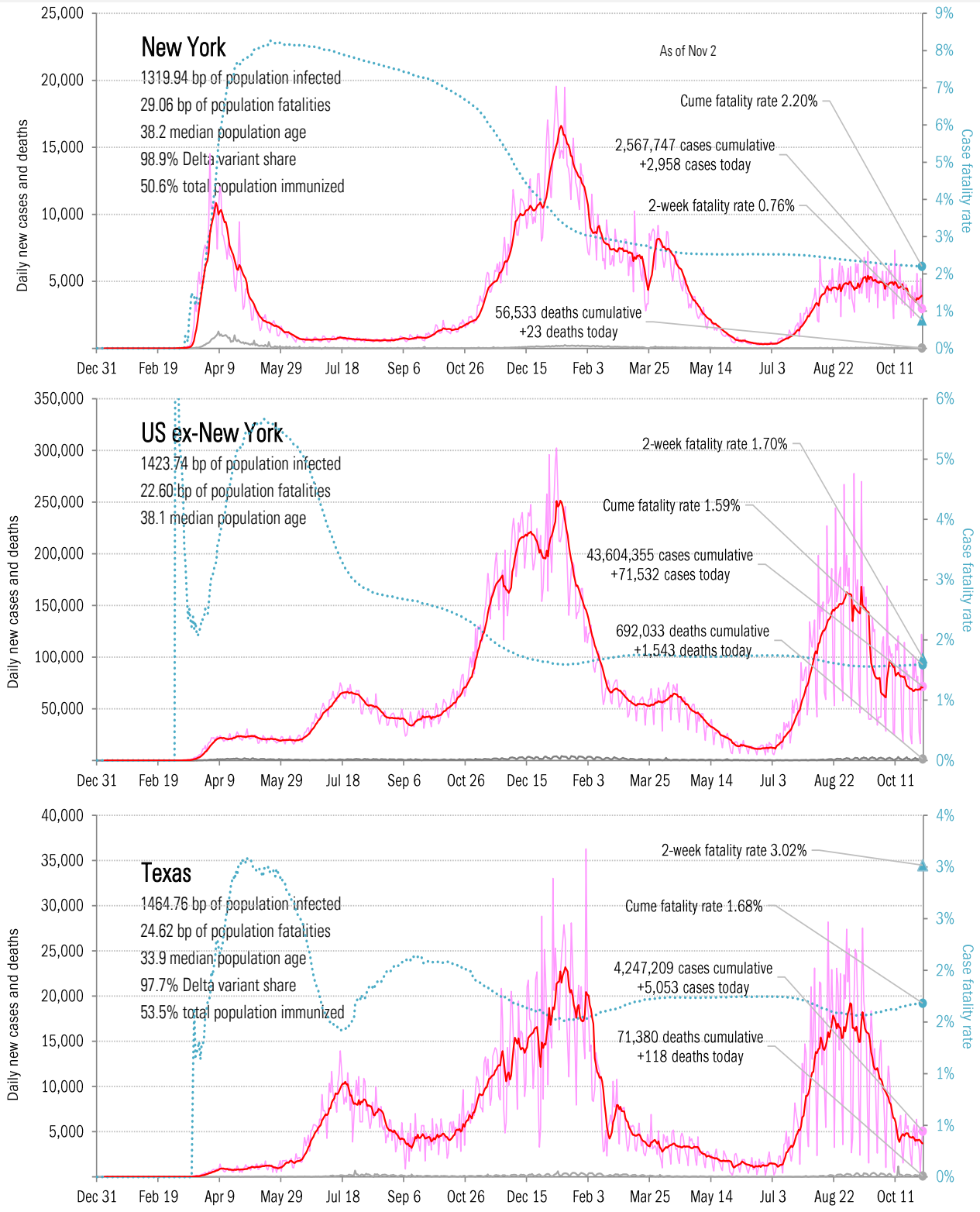
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

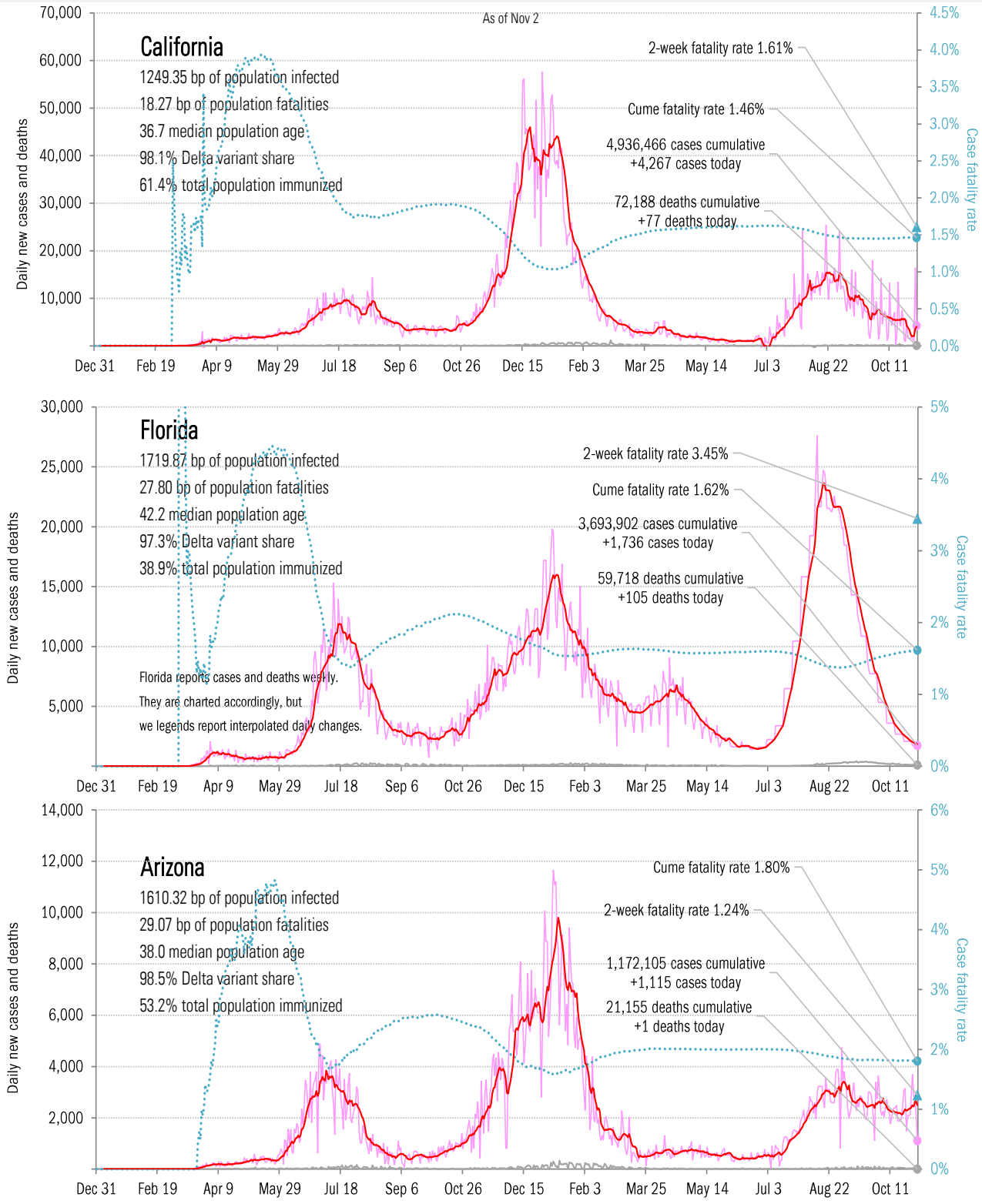
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

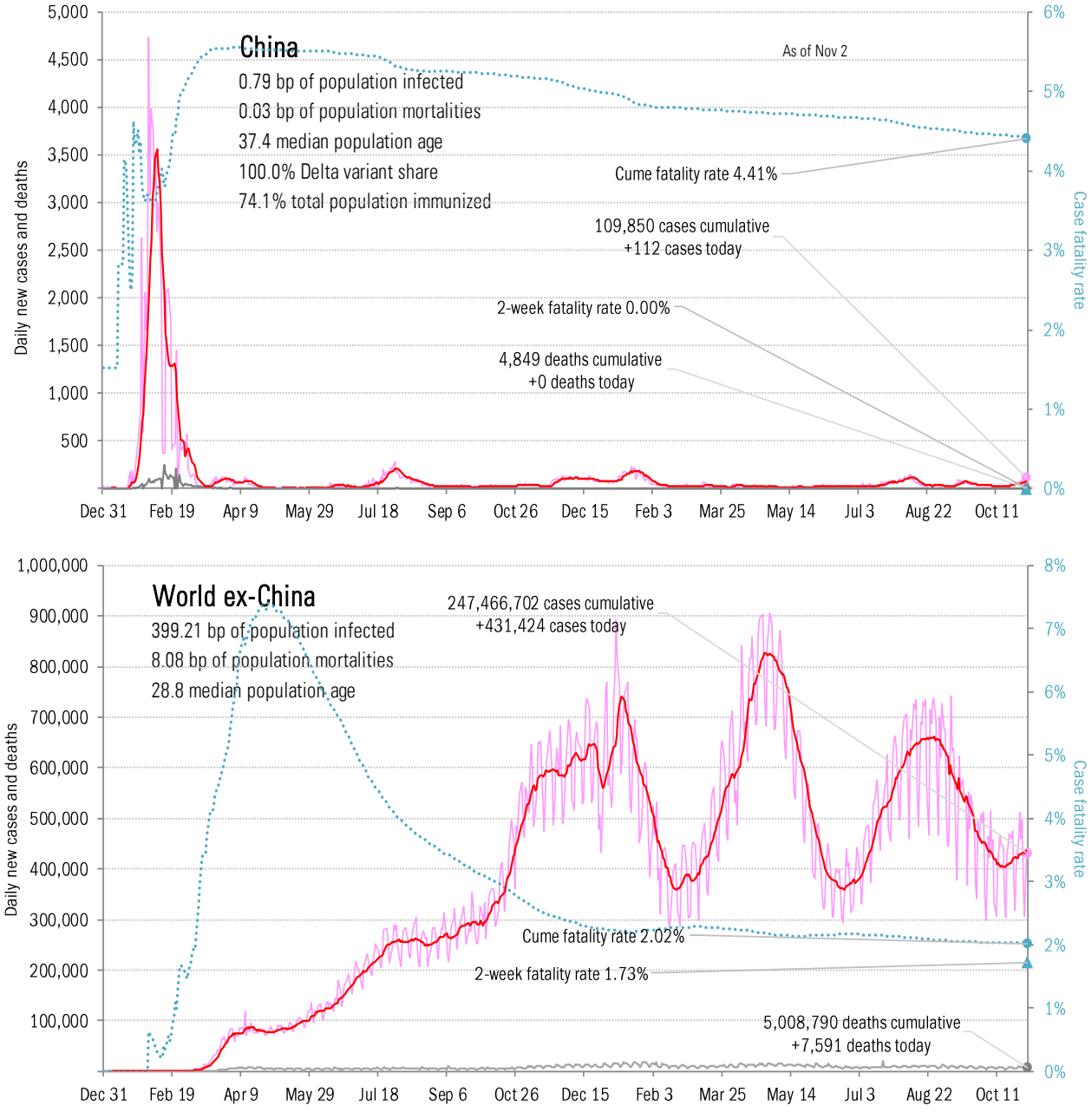
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

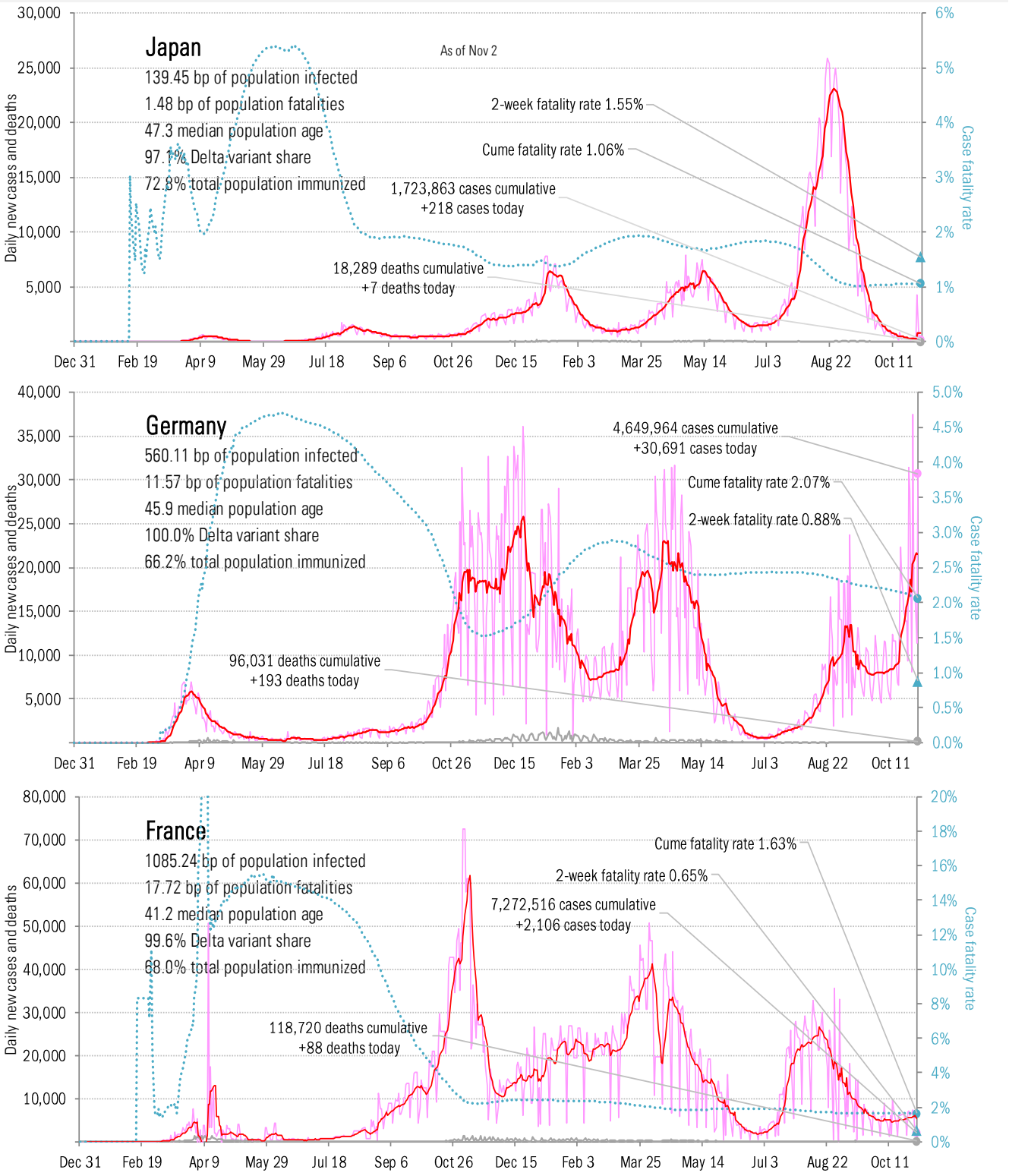
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

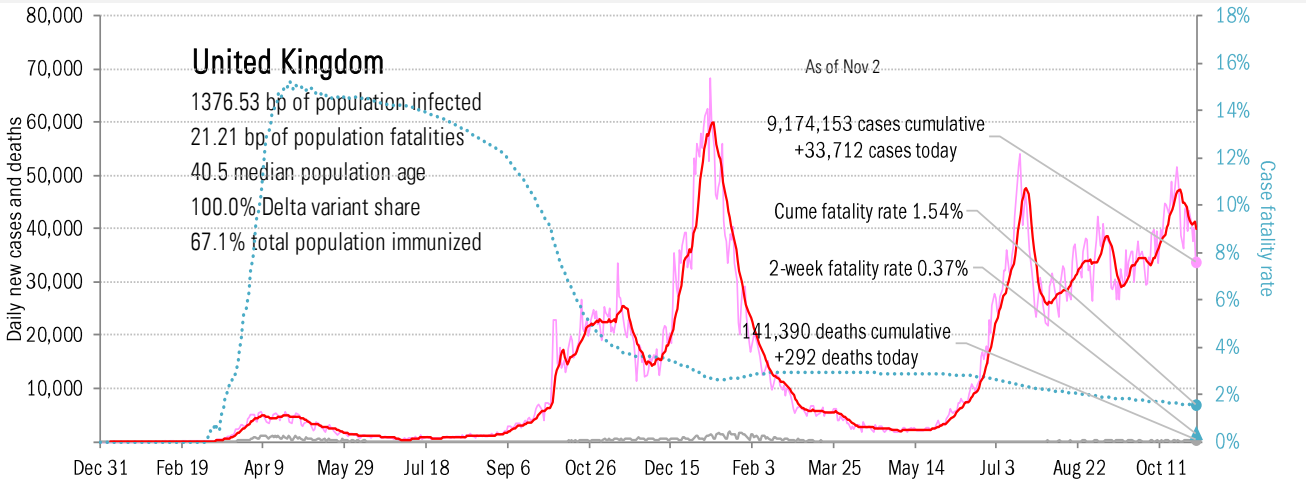
Cases: 7-day average and daily Deaths: Daily

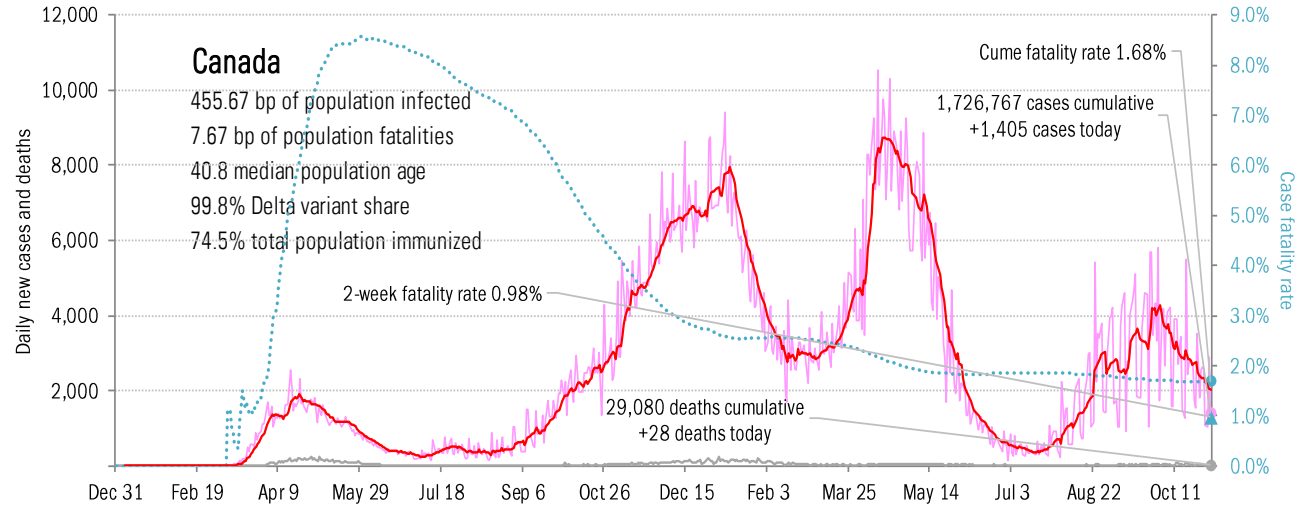


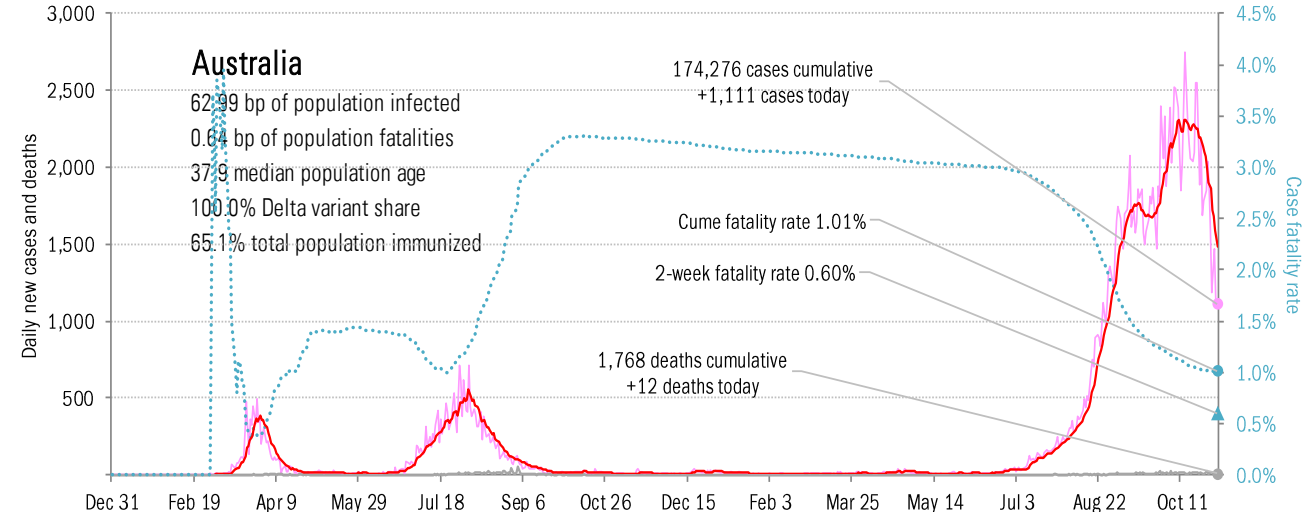
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily



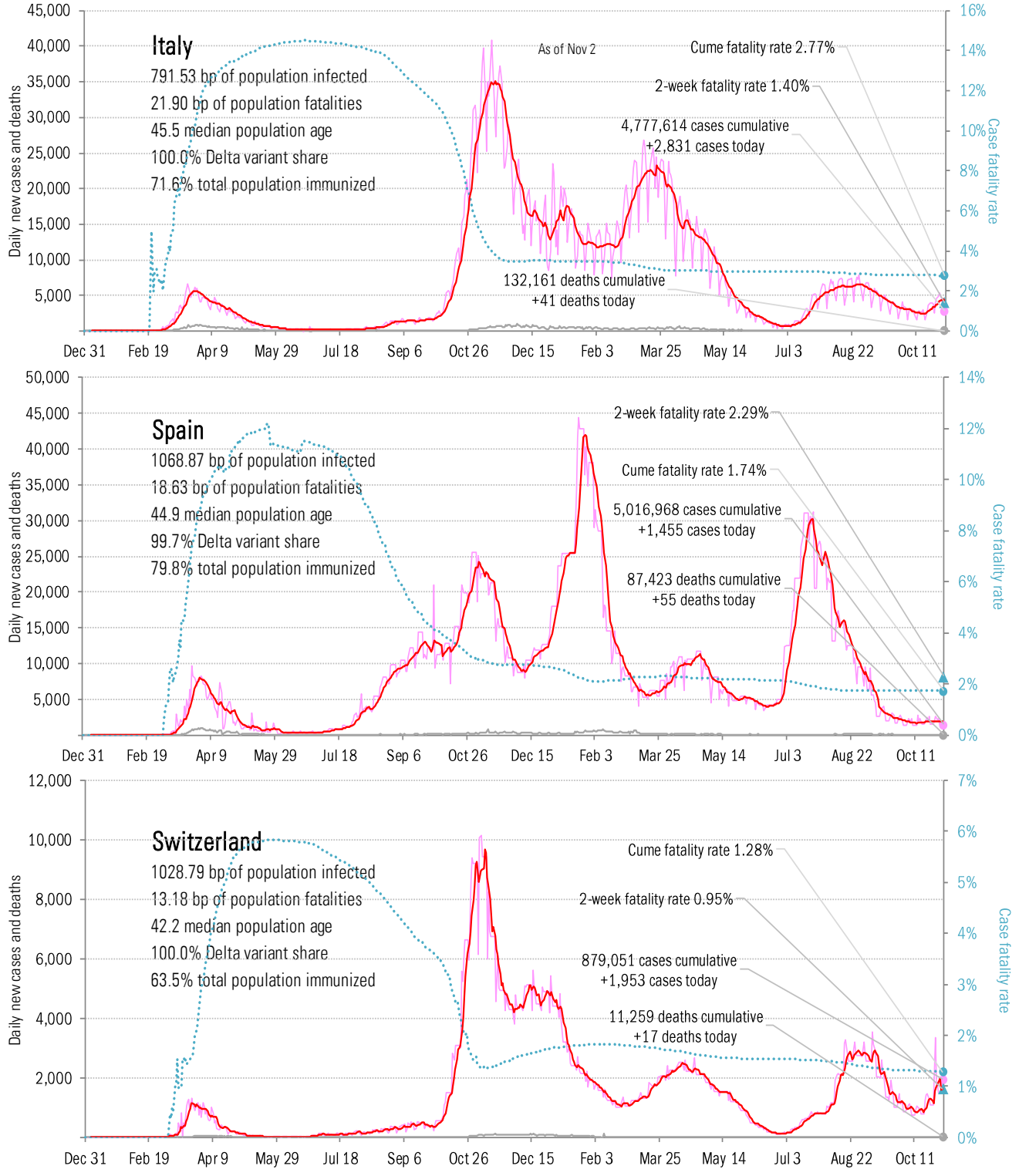




Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

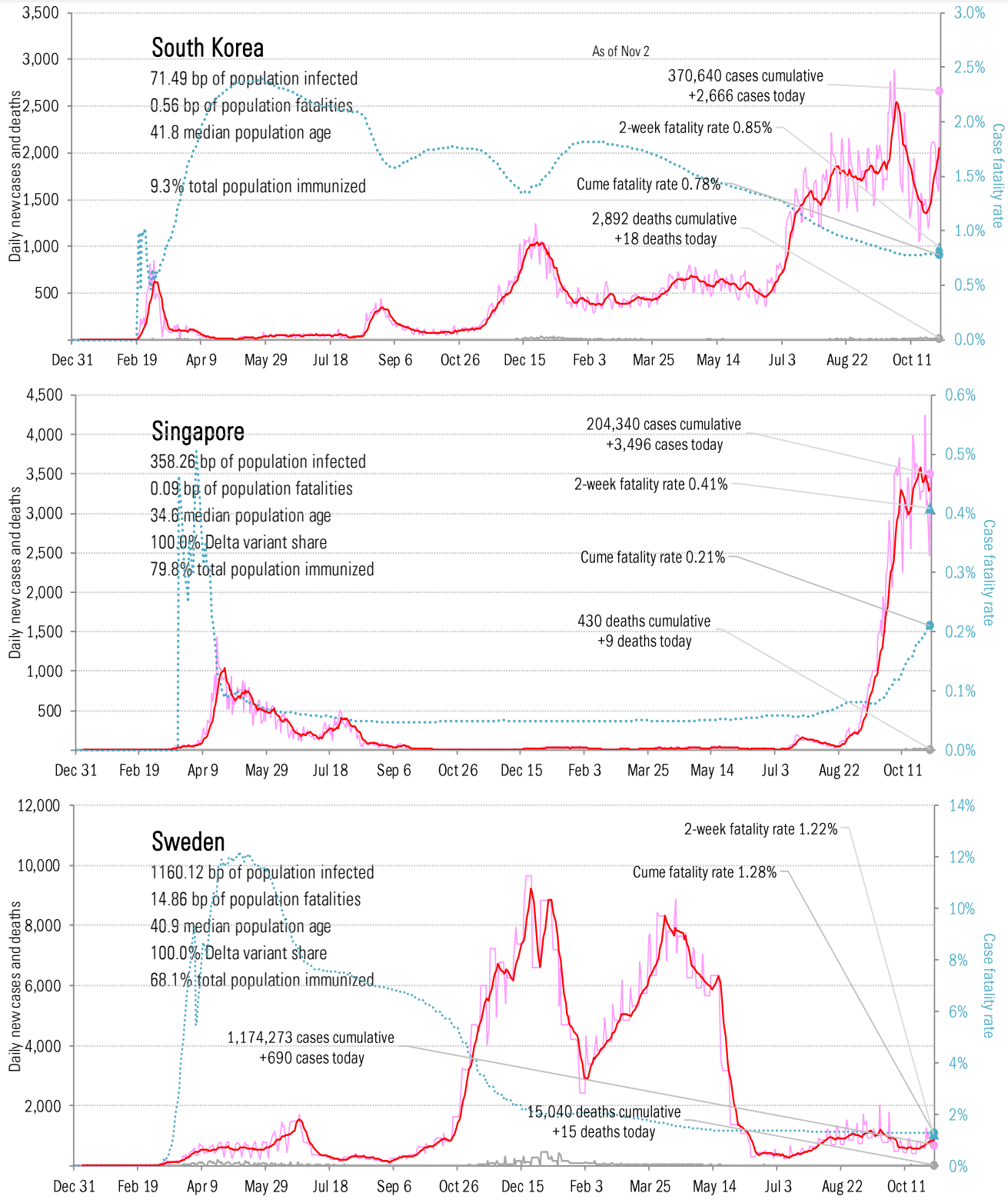
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

Cases: 7-day average and daily Deaths: Daily

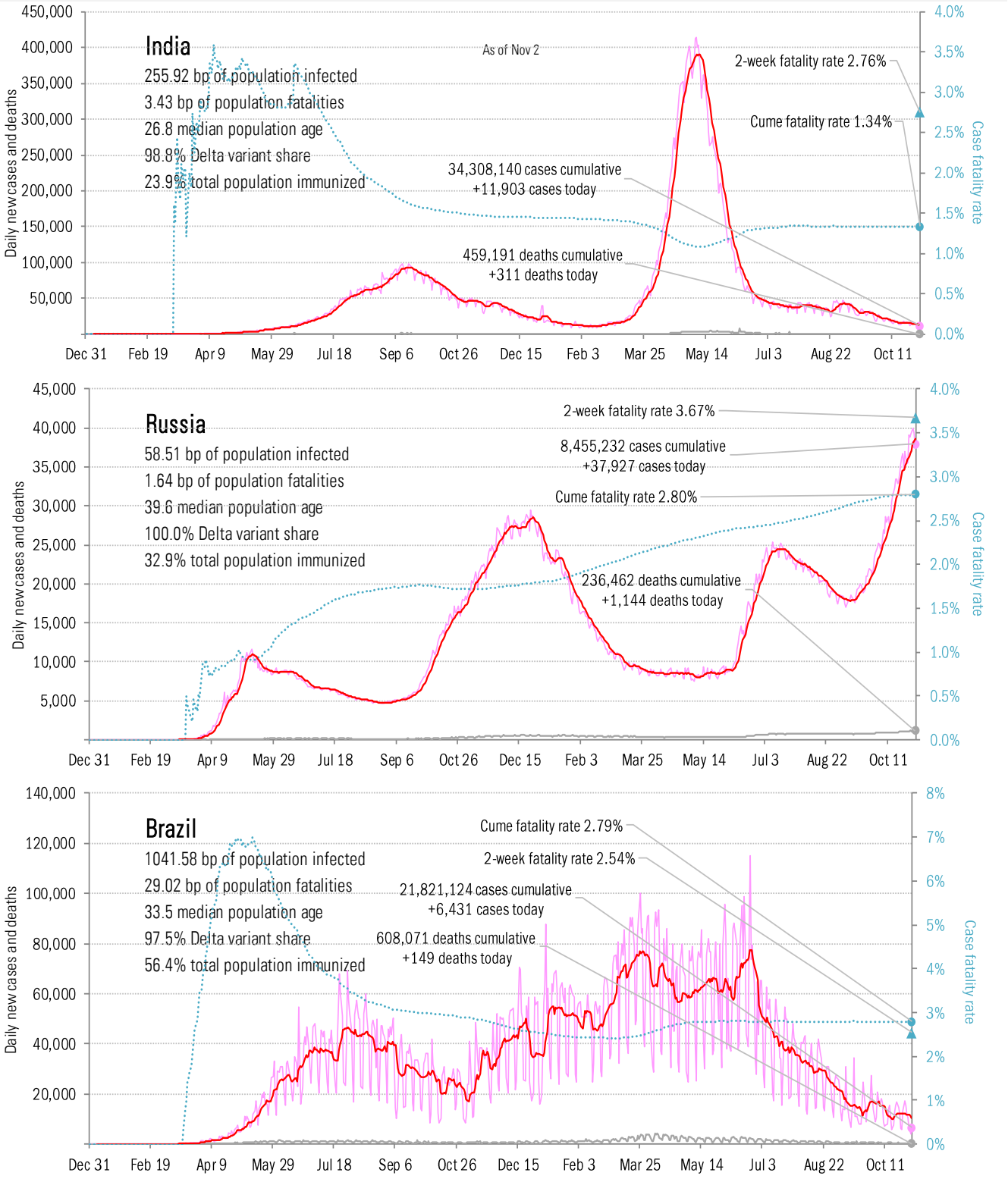


Biden

Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

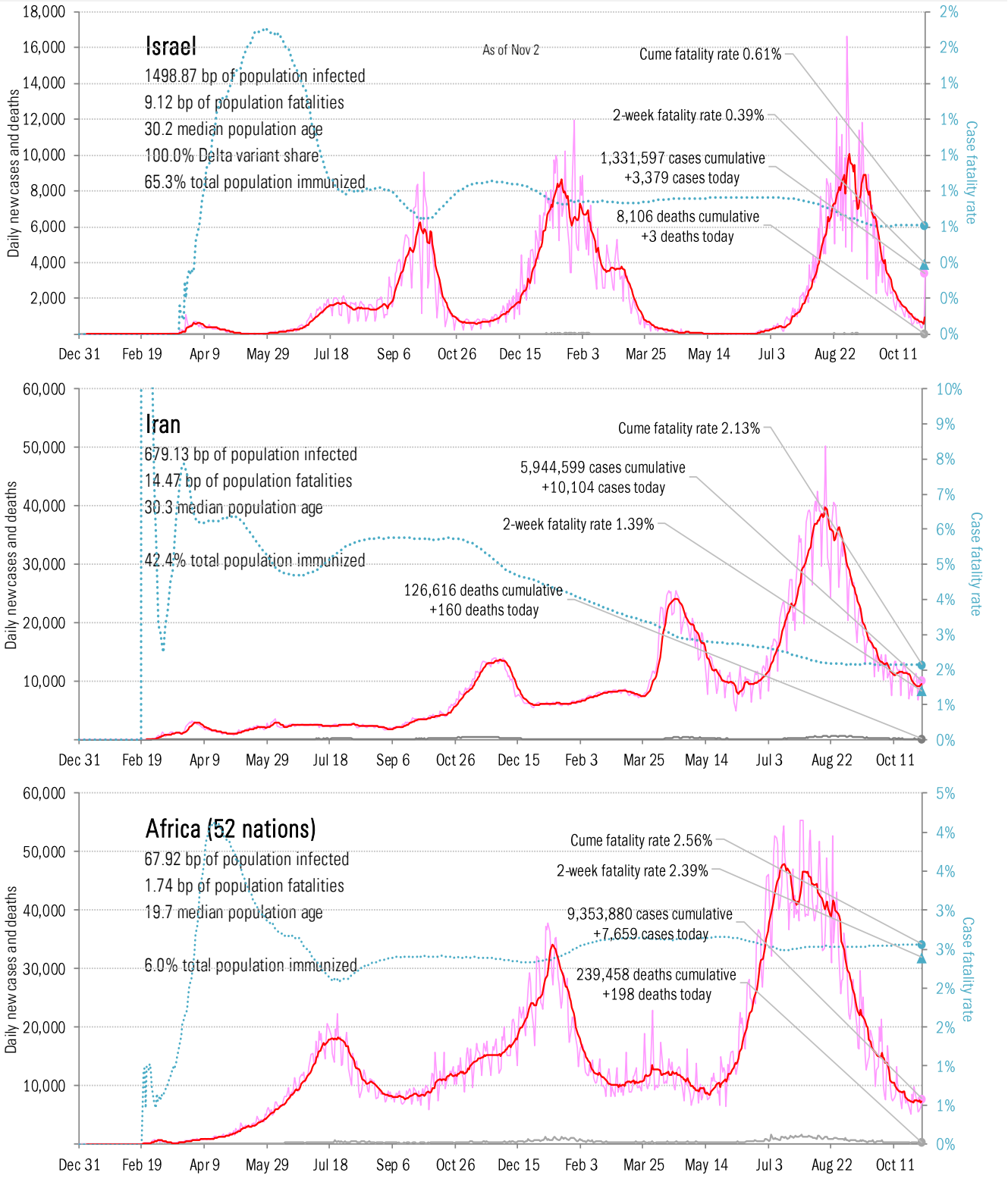
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

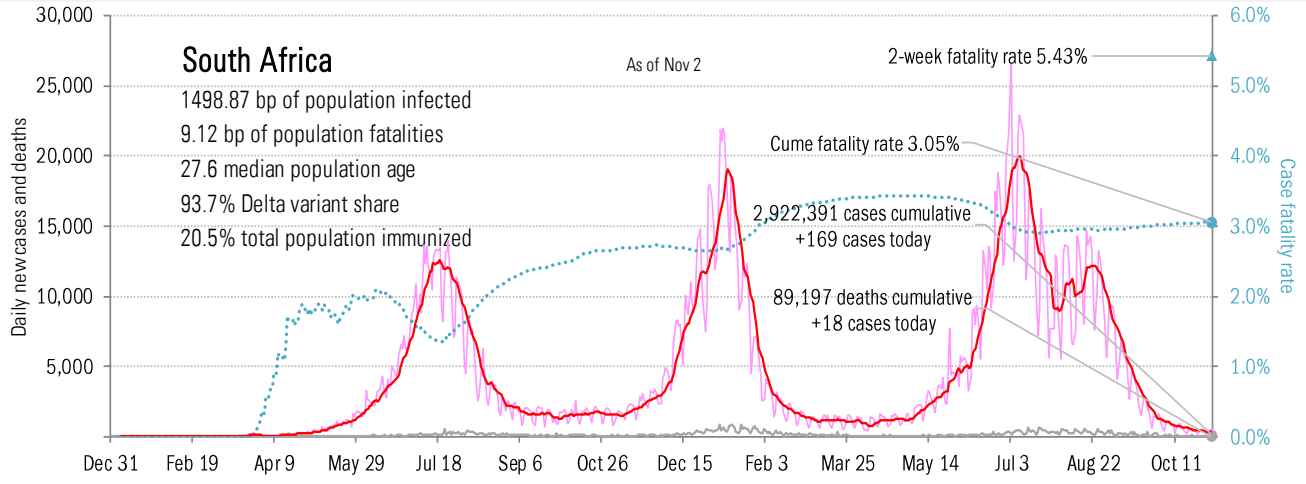
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations