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Data Insights: Covid-2019 Monitor

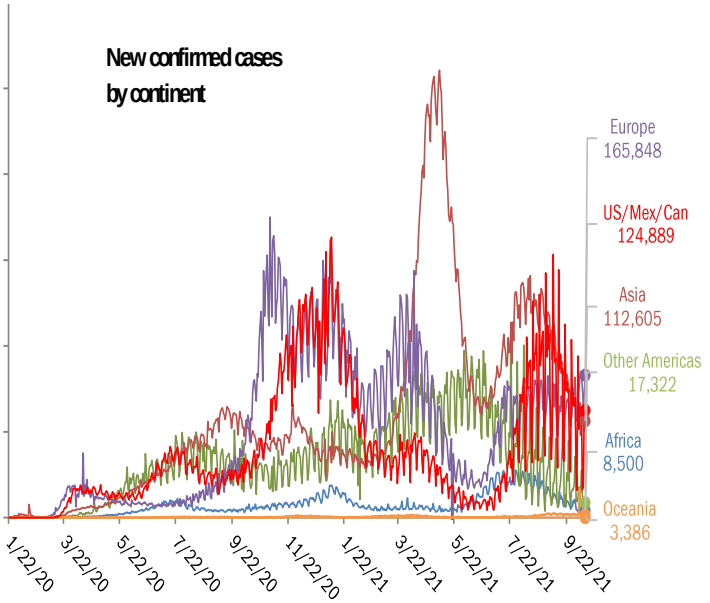
Wednesday, October 13, 2021

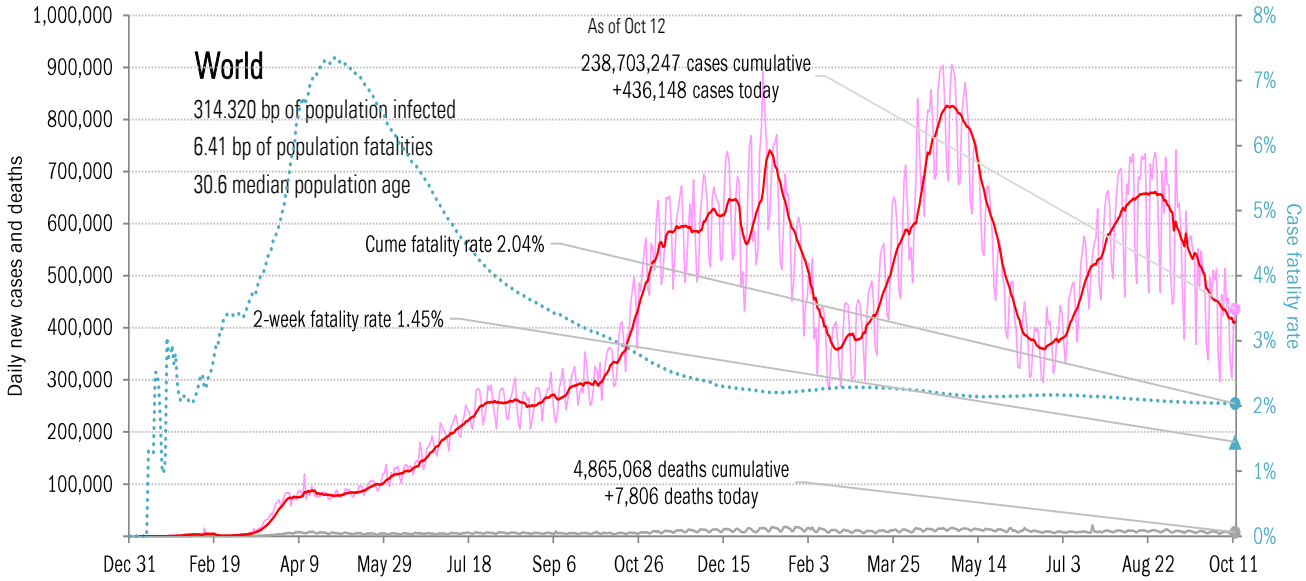
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	+109,906	United States	+2,023
United Kingdom	+37,855	Russia	+954
Turkey	+33,860	Mexico	+546
Russia	+27,414	Romania	+442
Romania	+16,743	Ukraine	+371
India	+15,823	Turkey	+237
Iran	+13,391	Philippines	+236
Ukraine	+12,772	India	+226
Thailand	+9,445	Iran	+213
Philippines	+8,558	Brazil	+185
	+285,767		+5,433
World	+436,148	World	+7,806
Top ten	66%	Top ten	70%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

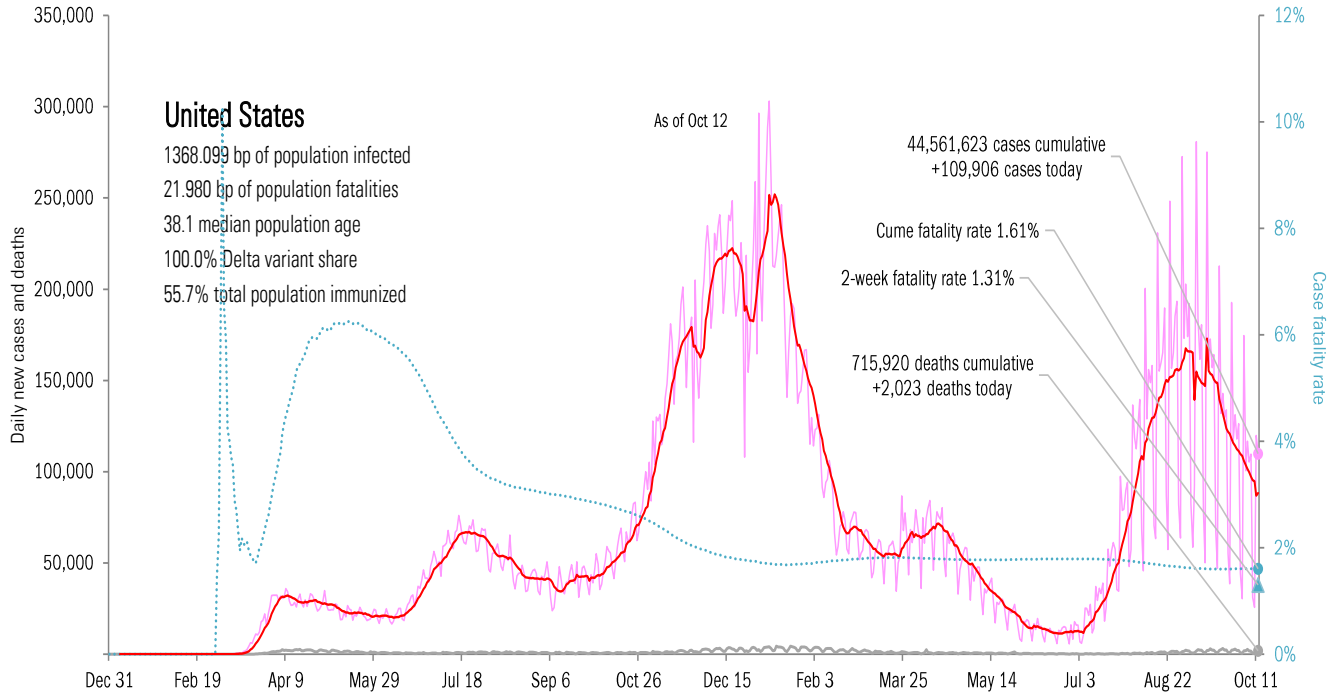
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
MN	+7,925	FL	+240	WY	+15	CA	4,792,729	CA	70,204	TX	366,228	RI	84%	AL	88%
IL	+7,862	OH	+202	WA	+10	TX	4,140,620	TX	67,062	FL	313,040	PA	83%	TX	87%
VA	+7,460	GA	+193	AK	+9	FL	3,644,656	FL	56,749	CA	301,893	MA	83%	KY	87%
GA	+7,014	PA	+151	PA	+7	NY	2,483,362	NY	55,790	NY	158,820	MD	82%	NM	87%
PA	+5,119	VA	+144	VT	+7	IL	1,657,970	PA	30,058	GA	155,487	MI	80%	OK	85%
TX	+5,108	TN	+105	ME	+2	GA	1,609,681	IL	27,721	OH	116,653	MN	80%	ID	84%
CA	+5,094	OR	+82	VI	+2	PA	1,486,134	NJ	27,624	PA	110,410	WA	79%	NV	83%
OH	+4,456	AZ	+71	AS	+0	OH	1,474,723	GA	27,335	KY	108,687	NY	79%	GA	83%
MA	+4,445	IL	+64	GU	+0	NC	1,436,699	OH	23,021	IL	101,966	MO	79%	PA	83%
UT	+4,366	CA	+54	MP	+0	TN	1,256,502	MI	22,738	MI	86,285	GA	78%	CO	83%
	+58,849		+1,306		+52		23,983,076		408,302		1,819,469				
All states	+109,898		+2,022		-1680	All states	44,561,623		715,920		3,240,161	All states	70%		67%
Top ten	54%		65%		-3%	Top ten	54%		57%		56%	Median	75%		76%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-9,820	AR	-119	NY	-109	CO	+30 bp
CA	-8,096	CA	-102	VA	-80	AL	+20 bp
NC	-7,341	SC	-83	AZ	-73	CA	+20 bp
WA	-4,652	NC	-77	MT	-72	DC	+20 bp
OK	-4,324	KY	-63	MI	-71	DE	+20 bp



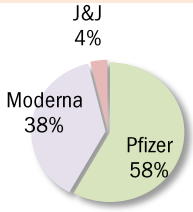
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	414,859,210				+0.594 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	222,667,148	67%	192,384,485	58%	+0.167 million
Age 12 to 17	13,923,549	59%	11,438,288	48%	+0.023 million
Age 18 to 64	153,932,398	76%	132,513,279	65%	+0.125 million
Age 65 and over	53,722,354	98%	47,540,950	87%	+0.018 million

Immunity	Full	Partial
US	55.7%	64.5%
UK	66.3%	72.1%
France	66.7%	75.0%
Spain	79.0%	80.9%
Germany	64.7%	68.0%
Italy	69.2%	75.9%
Australia	51.2%	69.1%
Israel	64.7%	70.4%
Canada	72.1%	77.1%
Japan	65.1%	74.3%
Africa	4.8%	7.4%
India	19.4%	49.2%
Brazil	46.5%	72.2%
China	72.6%	80.0%

Global data differs from sources, timing



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

Best
Middle
Worst

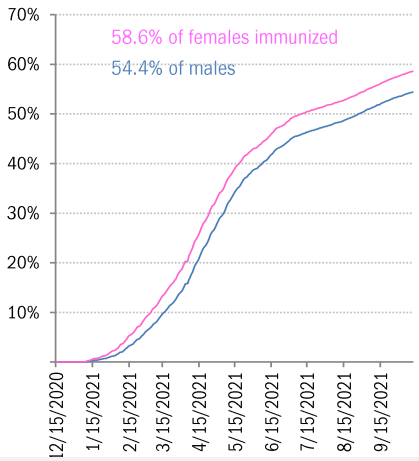
Every American >18 immune in
43 days
by Nov 24, 2021

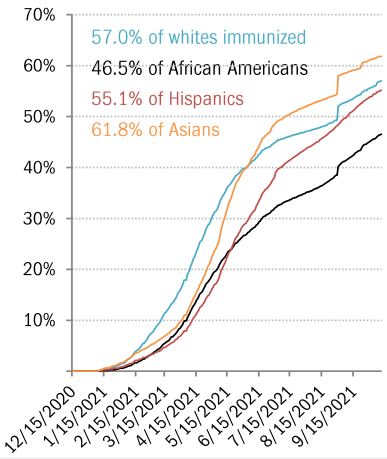
69.7% of population >18 immunized
15.9% previously tested positive
85.6% vs 60% adult herd immunity

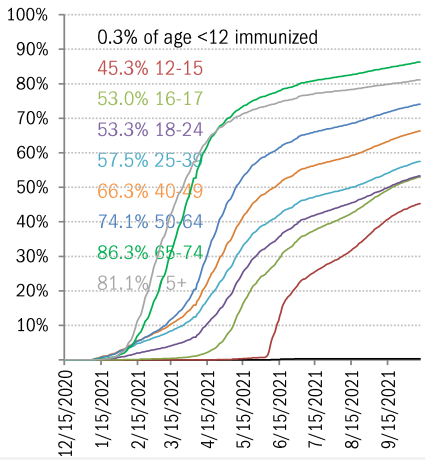
As of Oct 12

AK					WI					ME
58.0%					61.7%					74.9%
51.3%					57.3%					69.1%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
68.1%	47.9%	55.5%	51.9%	64.2%	69.4%	57.3%		72.3%	78.6%	72.1%
62.1%	42.5%	49.1%	45.0%	58.9%	54.3%	52.7%		64.6%	70.3%	62.2%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
67.3%	61.7%	49.4%	60.1%	58.7%	52.8%	54.9%	74.4%	73.4%	78.4%	
61.7%	51.6%	42.6%	52.3%	54.6%	49.0%	50.9%	58.8%	65.2%	68.6%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
72.9%	59.8%	66.3%	60.0%	55.6%	61.7%	48.5%	69.4%	71.5%	77.3%	76.4%
59.9%	51.9%	60.3%	55.3%	48.7%	53.5%	40.7%	61.6%	64.9%	69.6%	69.4%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	60.1%	73.5%	60.8%	56.4%	53.5%	61.5%	56.2%	72.1%	67.5%	
	51.9%	63.9%	52.0%	46.5%	46.5%	51.3%	48.5%	61.0%	58.6%	
			OK	LA	MS	AL	GA			
			57.6%	52.5%	50.9%	53.4%	55.6%			
			48.6%	46.3%	44.4%	43.6%	46.5%			
HI			TX					FL		PR
77.4%			60.3%					67.8%		80.0%
58.7%			52.1%					58.4%		71.5%

The demographics of US vaccination



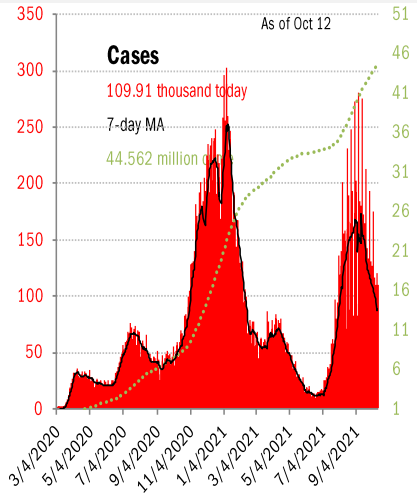


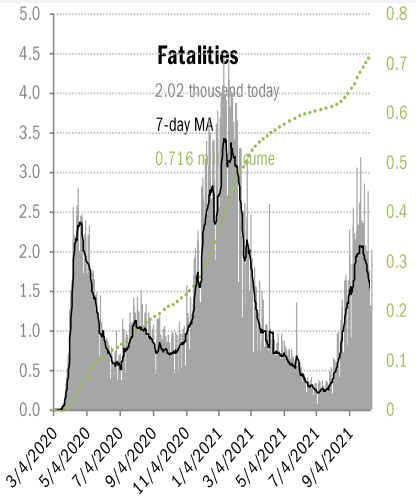


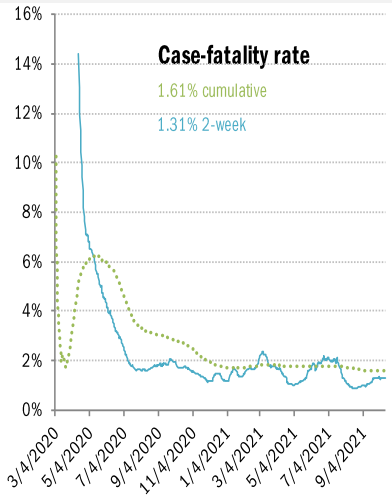
Source: CDC, CDC, Our World in Data, TrendMacro calculations

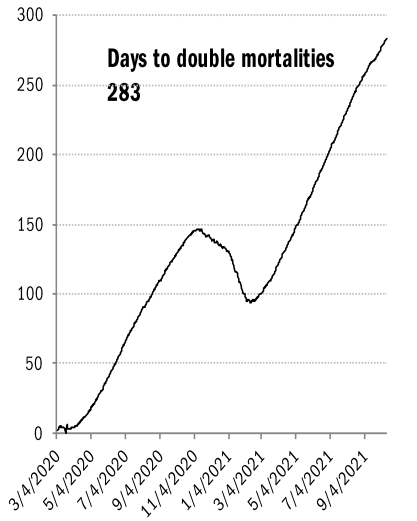
US deep-dive

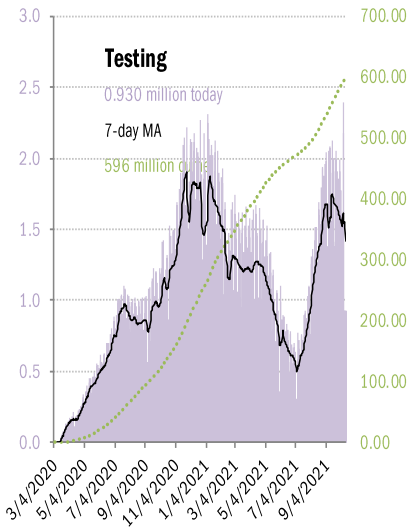
National and state-by-state data do not line up because of different sources

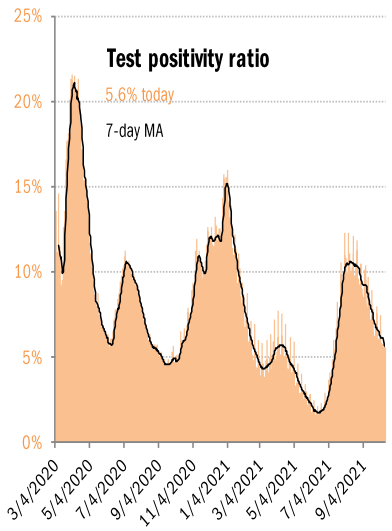


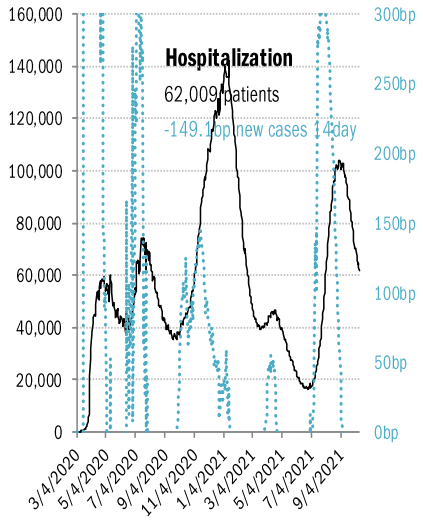


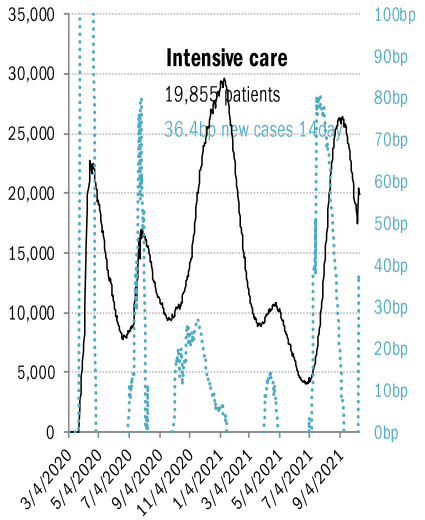


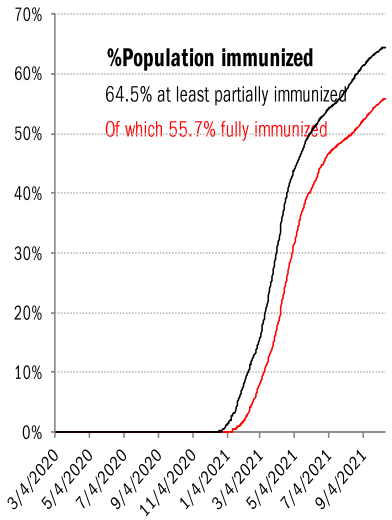












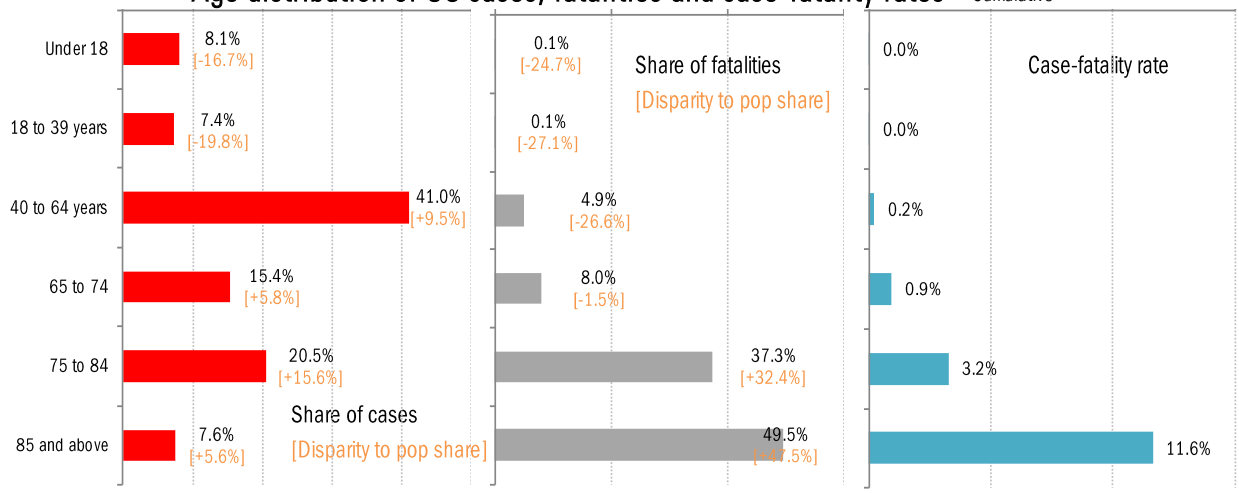
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

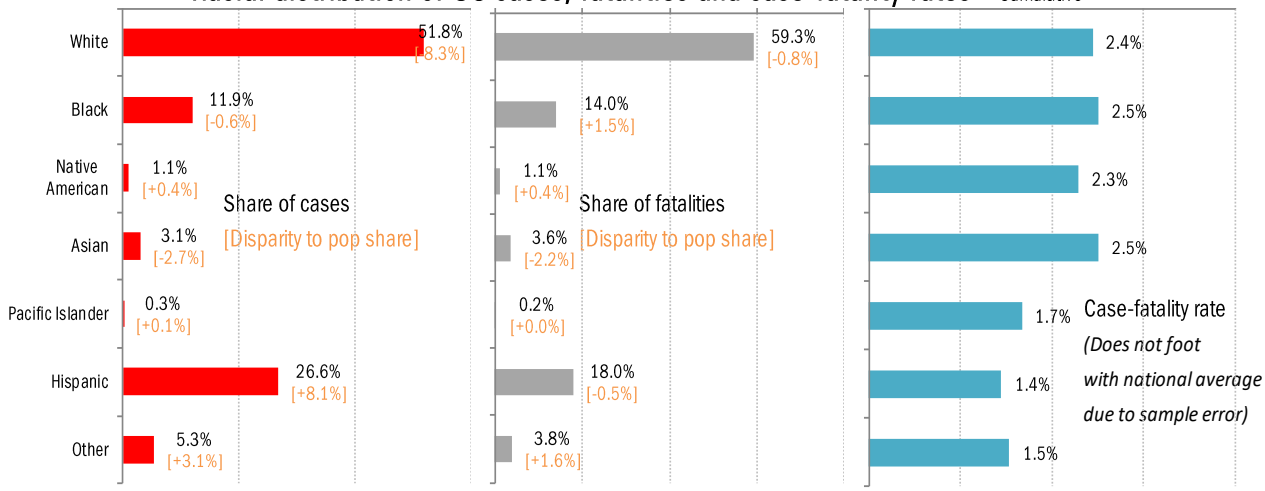
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



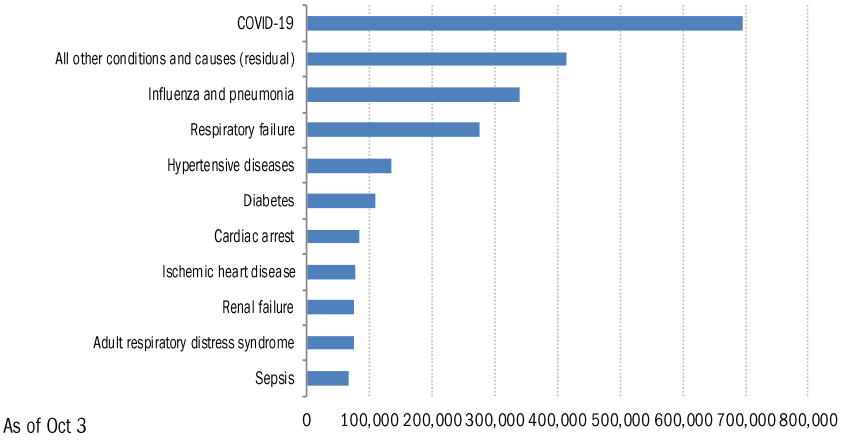
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Oct 3

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

W.H.O. Will Announce New Team to Study Coronavirus Origins
Benjamin Mueller
New York Times
October 12, 2021

Most Americans Agree Dr. Fauci Has 'Lost Credibility'
Rasmussen Reports
October 12, 2021

Hundreds of Police Officers Have Died From Covid. Vaccines Remain a Hard Sell.
Mitch Smith
New York Times
October 12, 2021

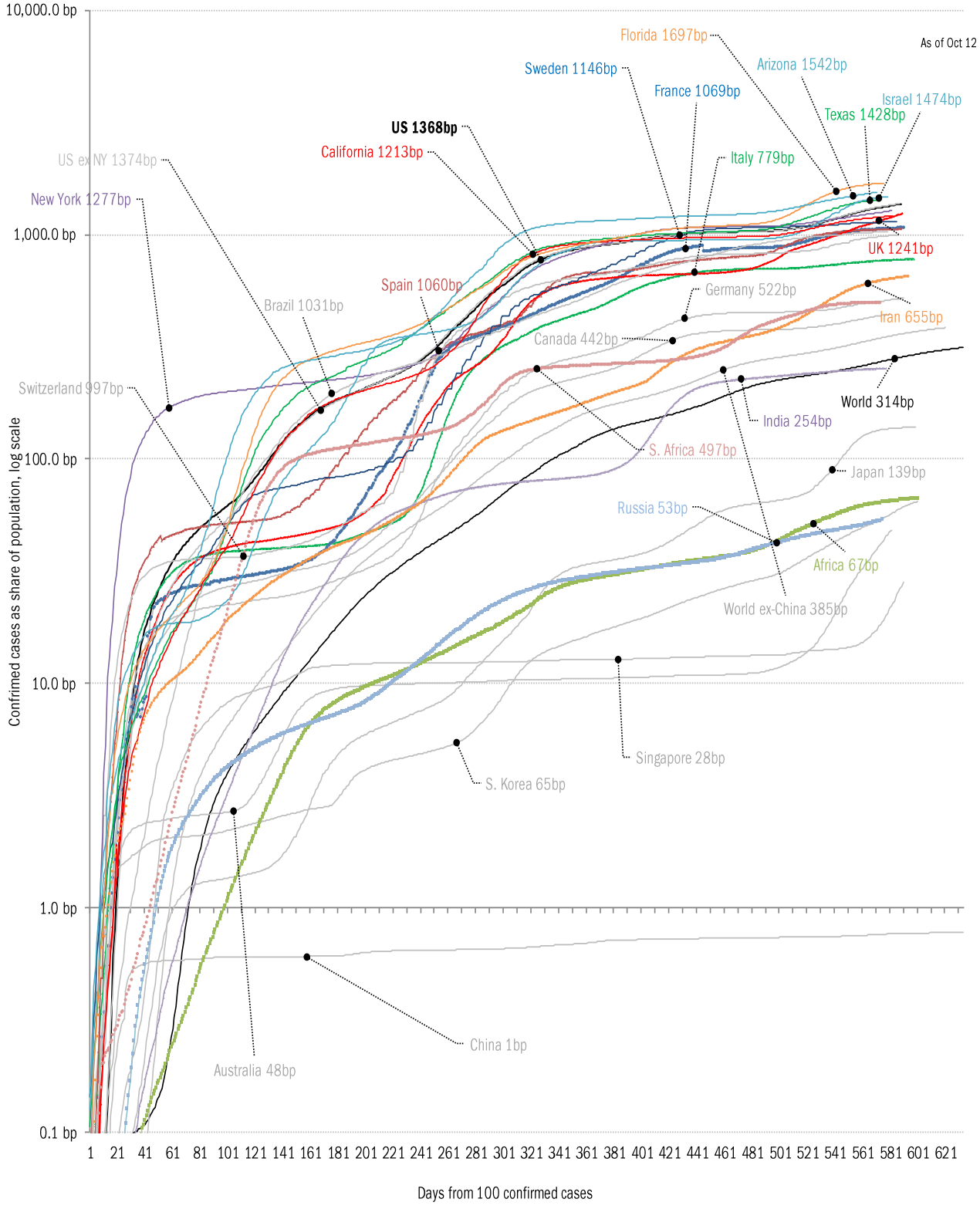
Meme of the day

Southwest Airlines Offering Free Flights To All Passengers Who Are Vaccinated And Can Fly A Plane

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

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

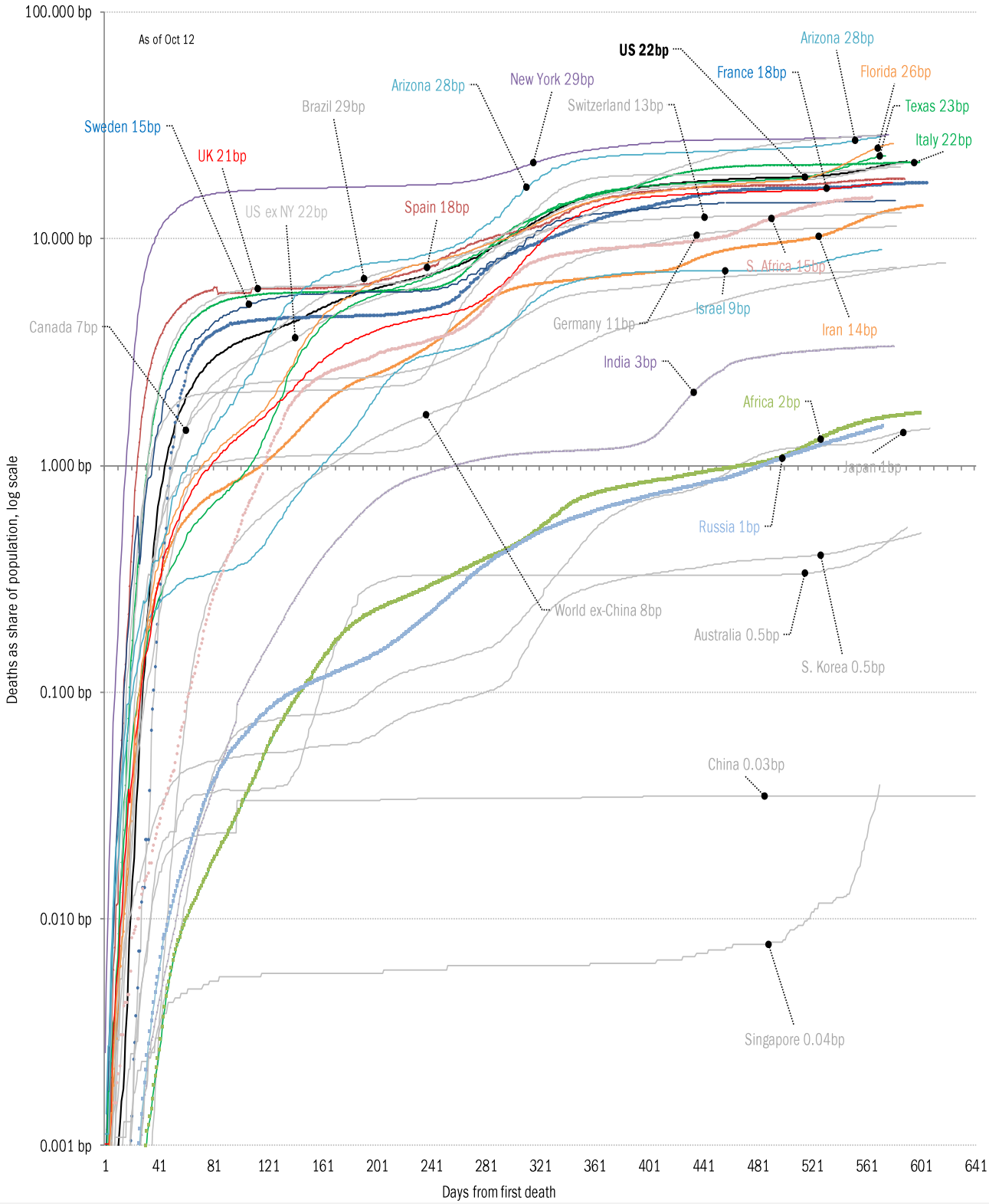
Share of infected population from first day with 100 confirmed cases, log scale



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

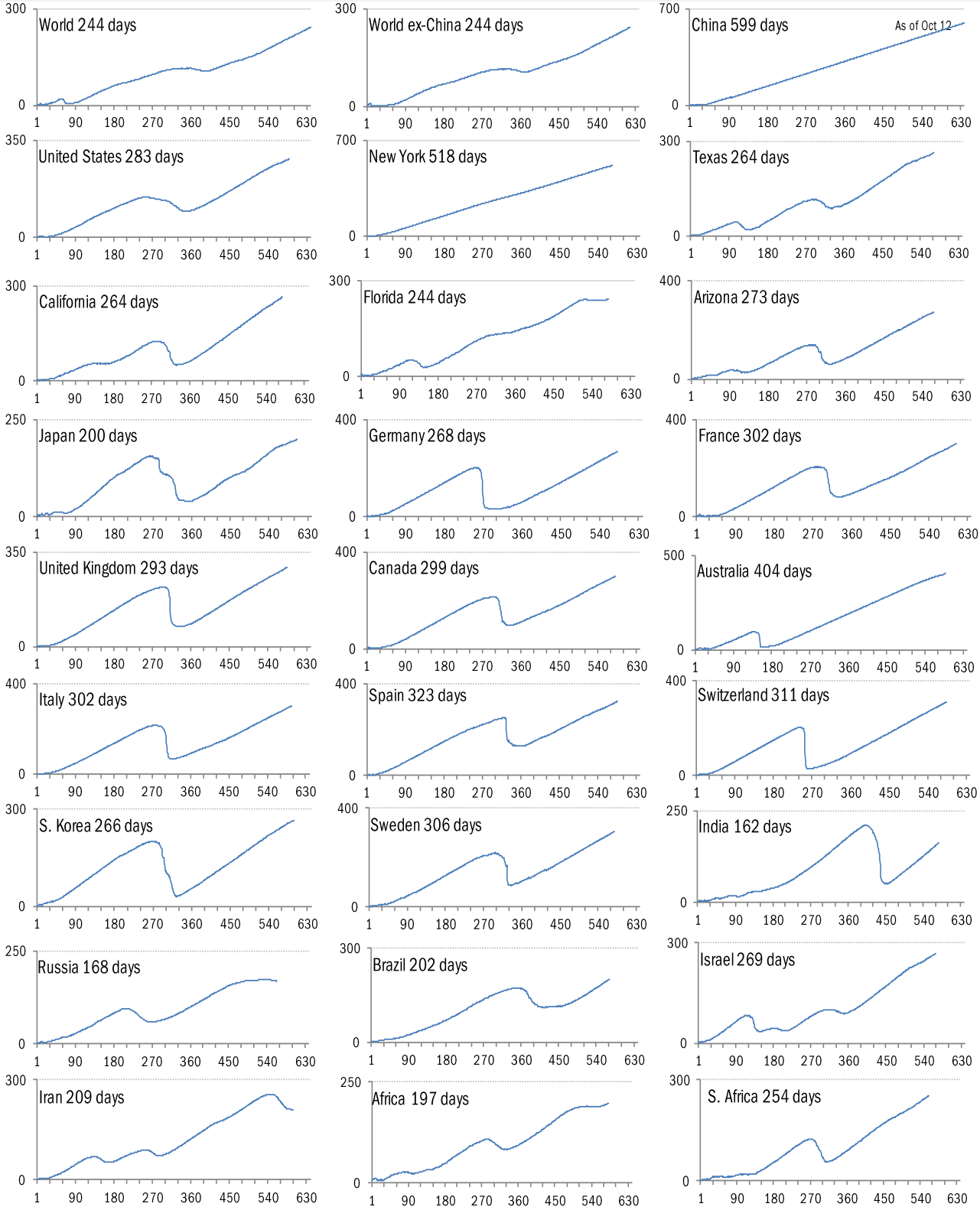


Source: Johns Hopkins, TrendMacro calculations

"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

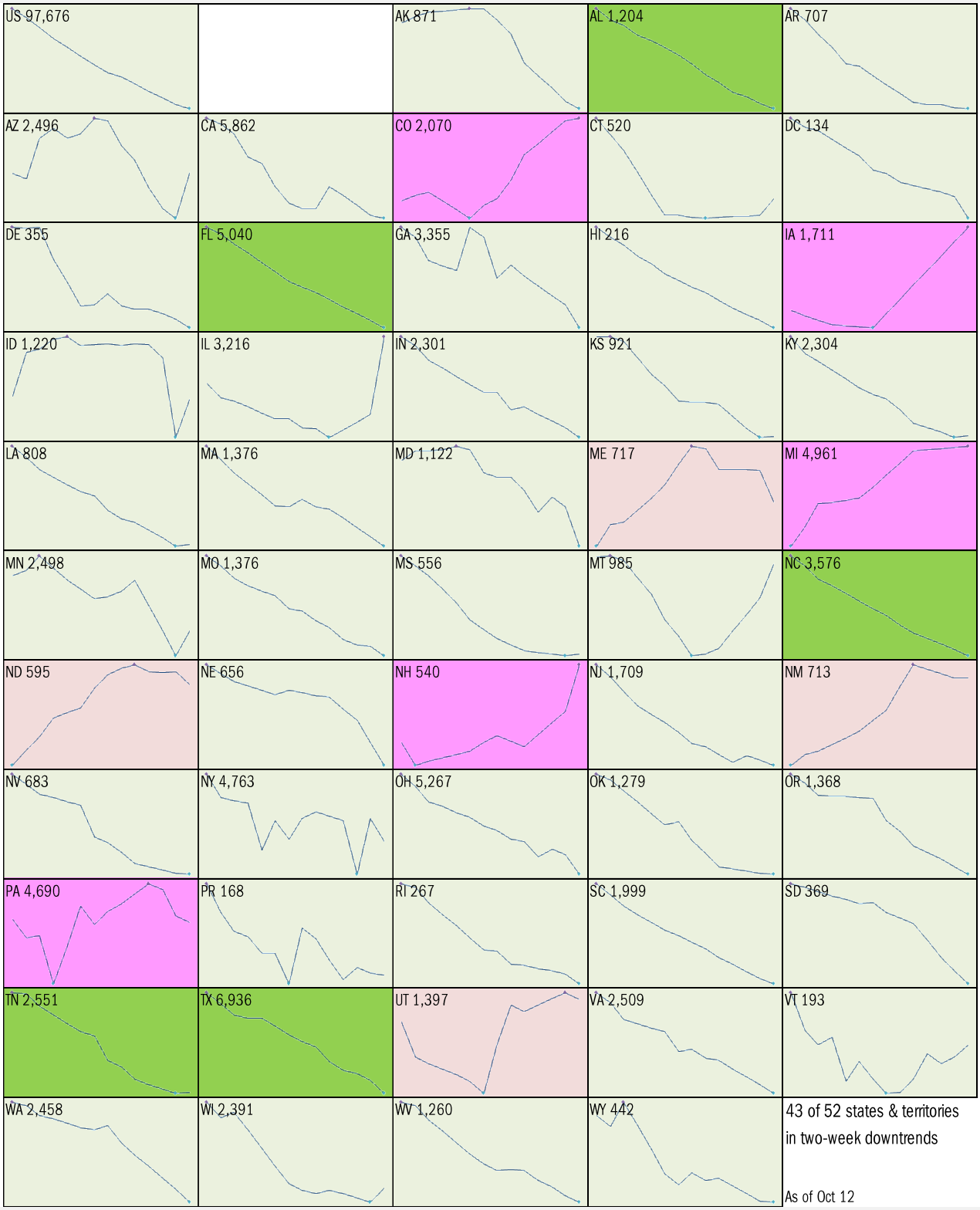


Source: Johns Hopkins, TrendMacro calculations

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

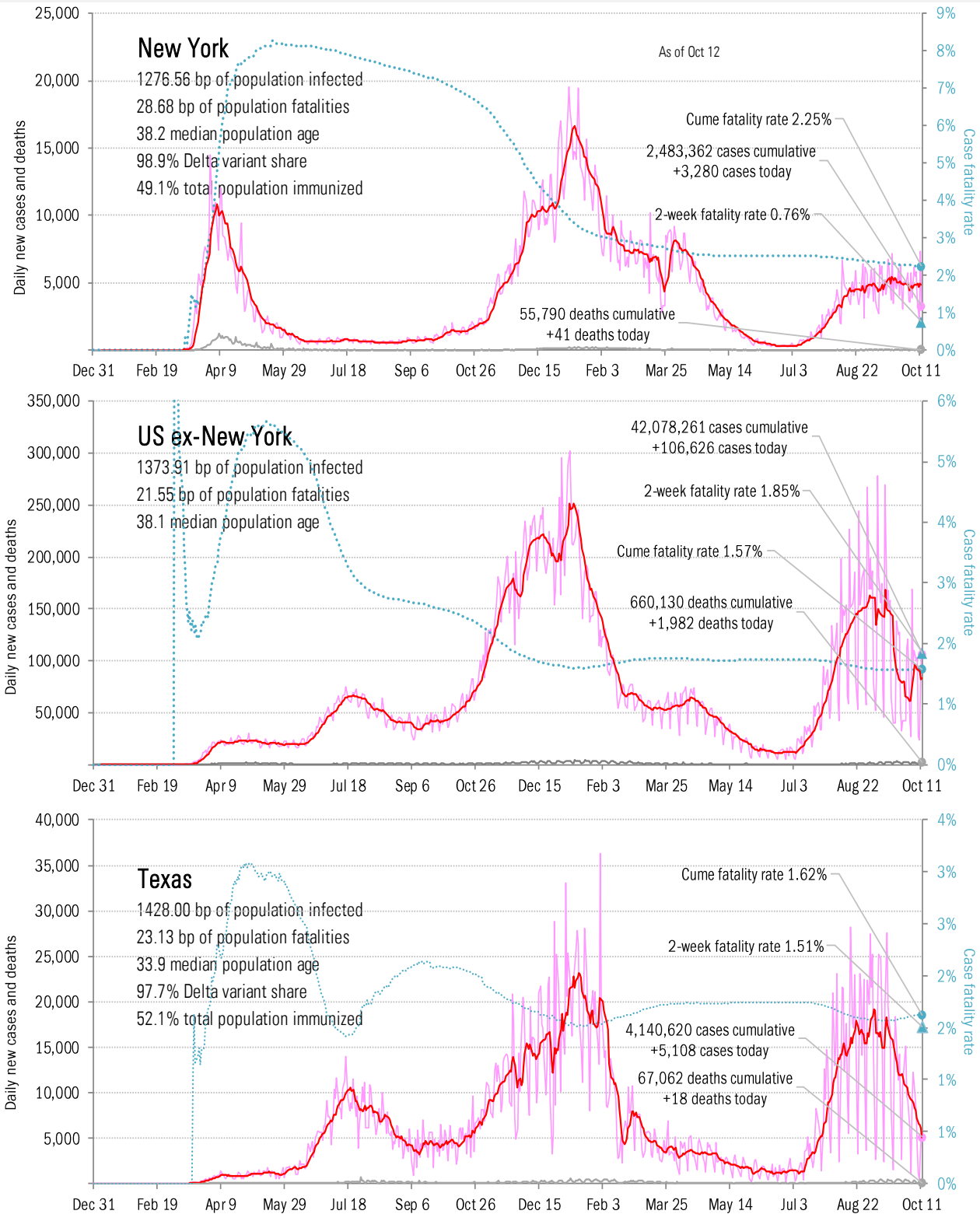
14-day moving average, last 14 days *Most recent value displayed* ● High ● Low

Downward trajectory Five best Upward trajectory Five worst

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

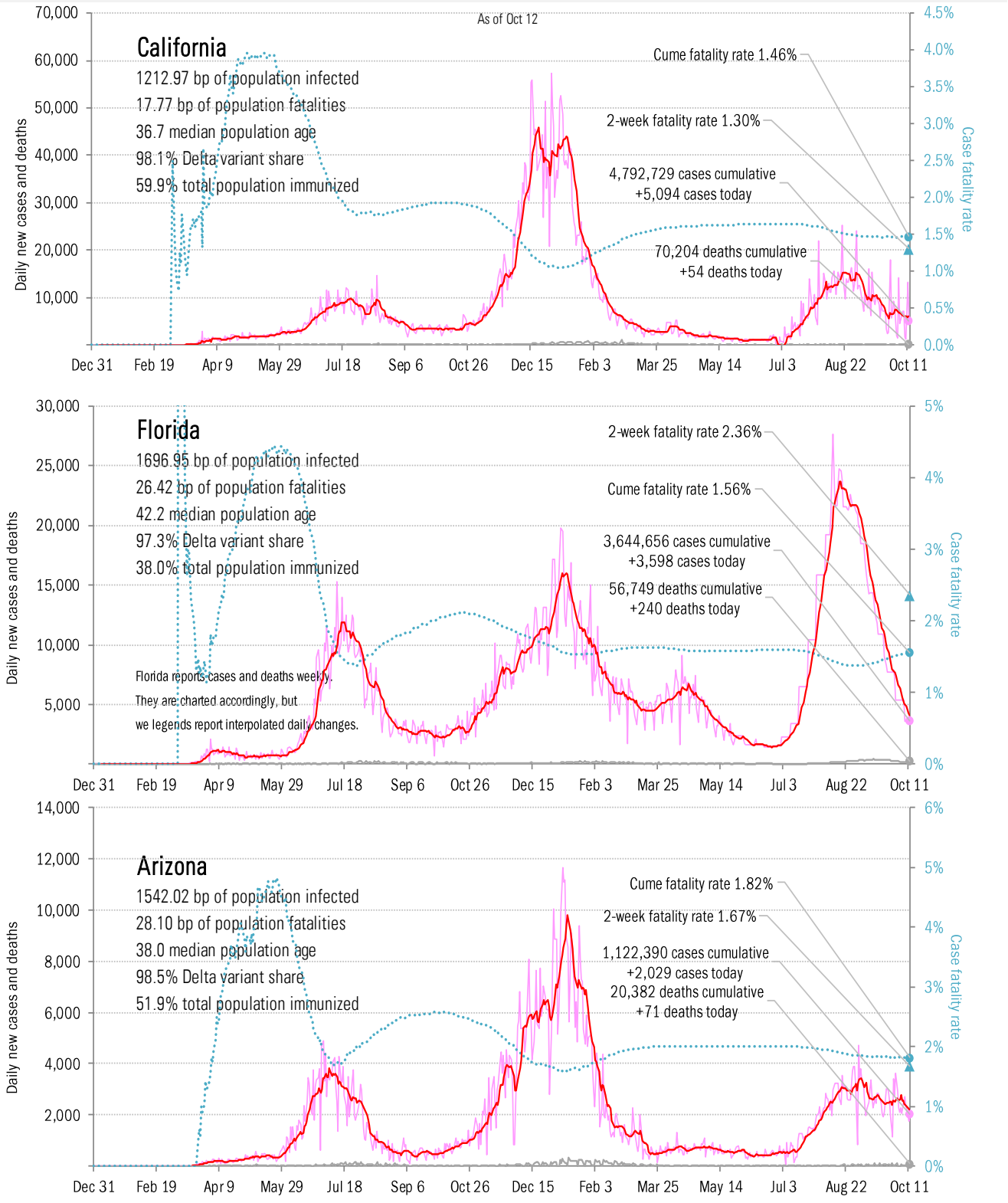
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

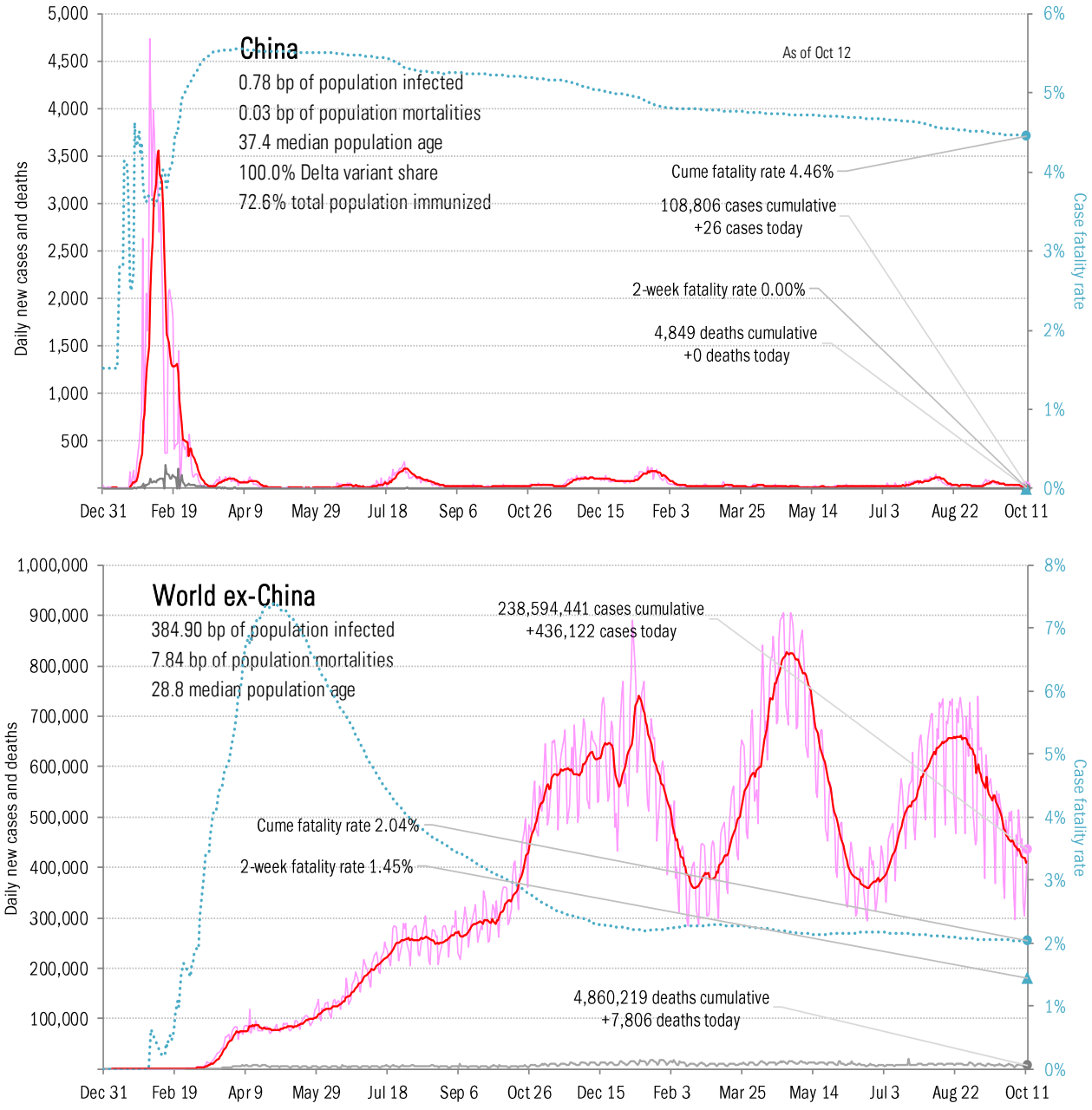
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

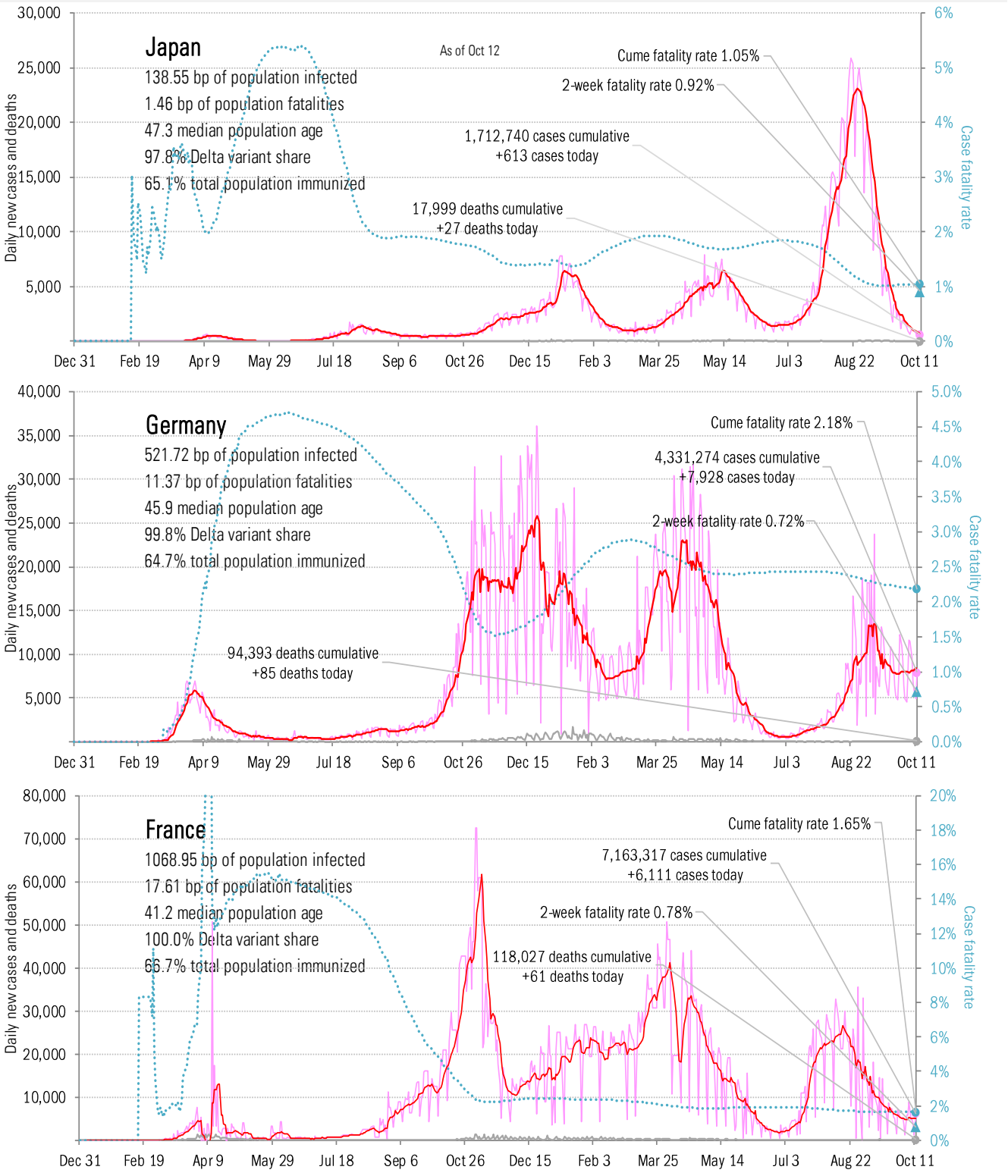
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

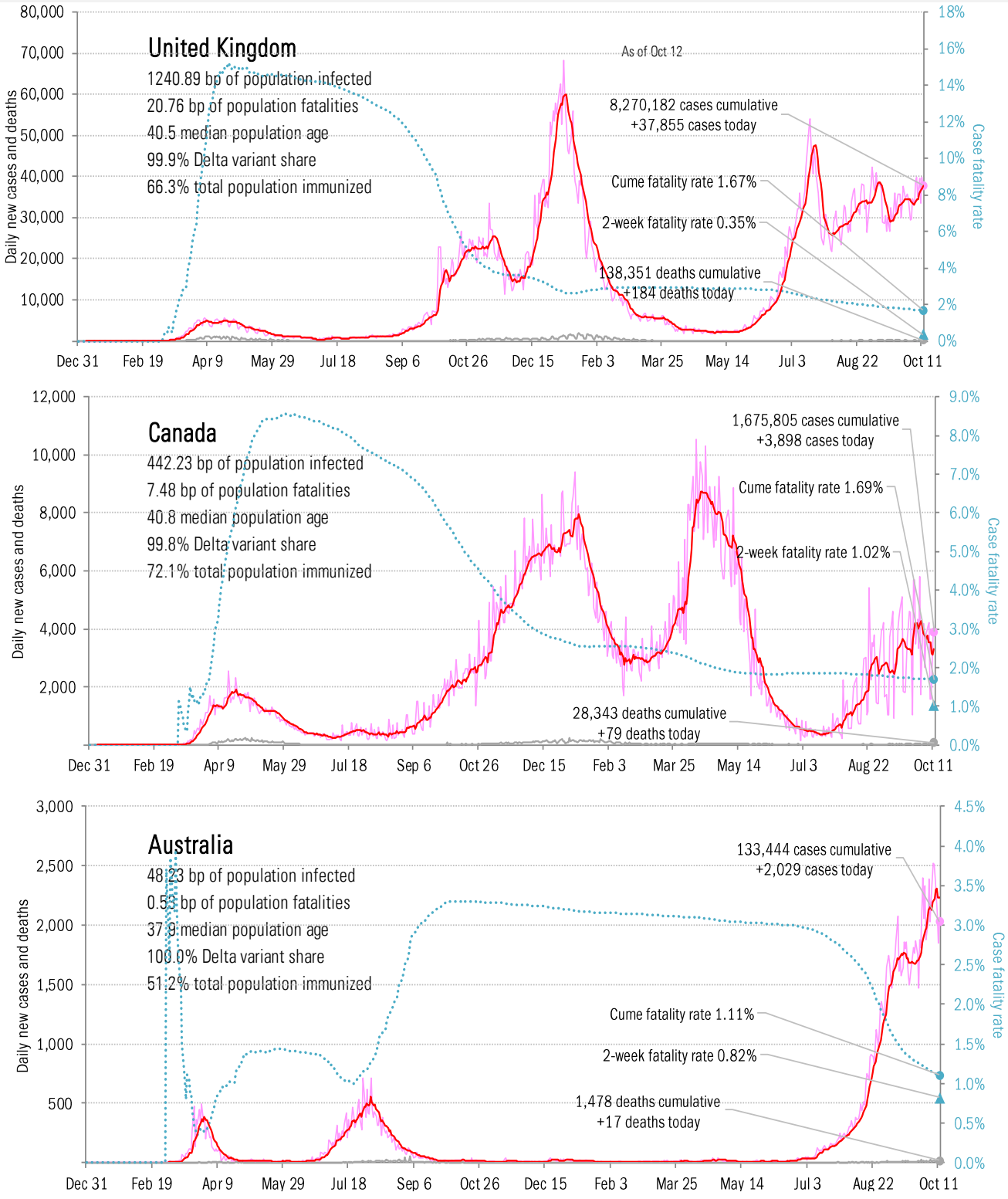
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

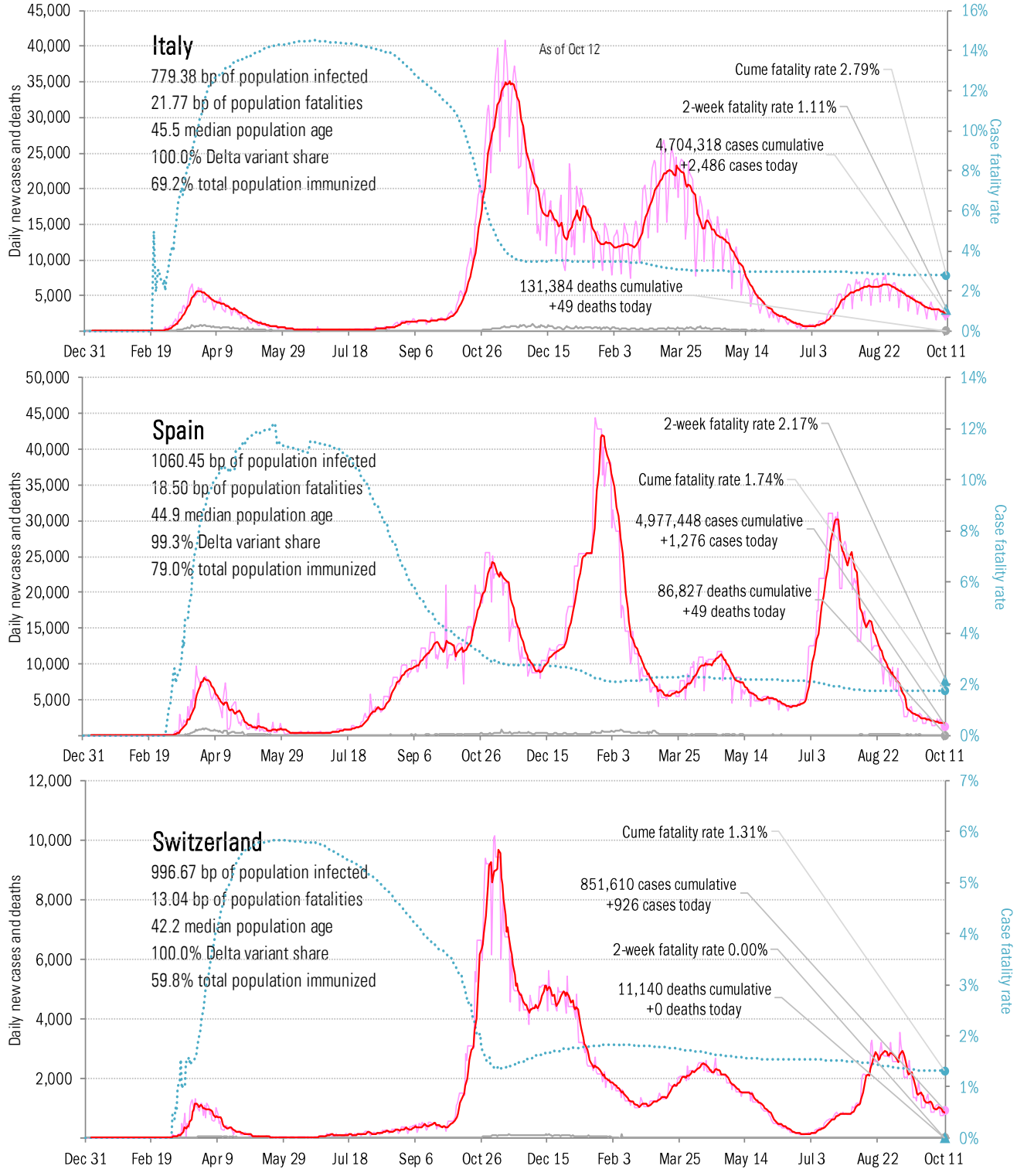
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

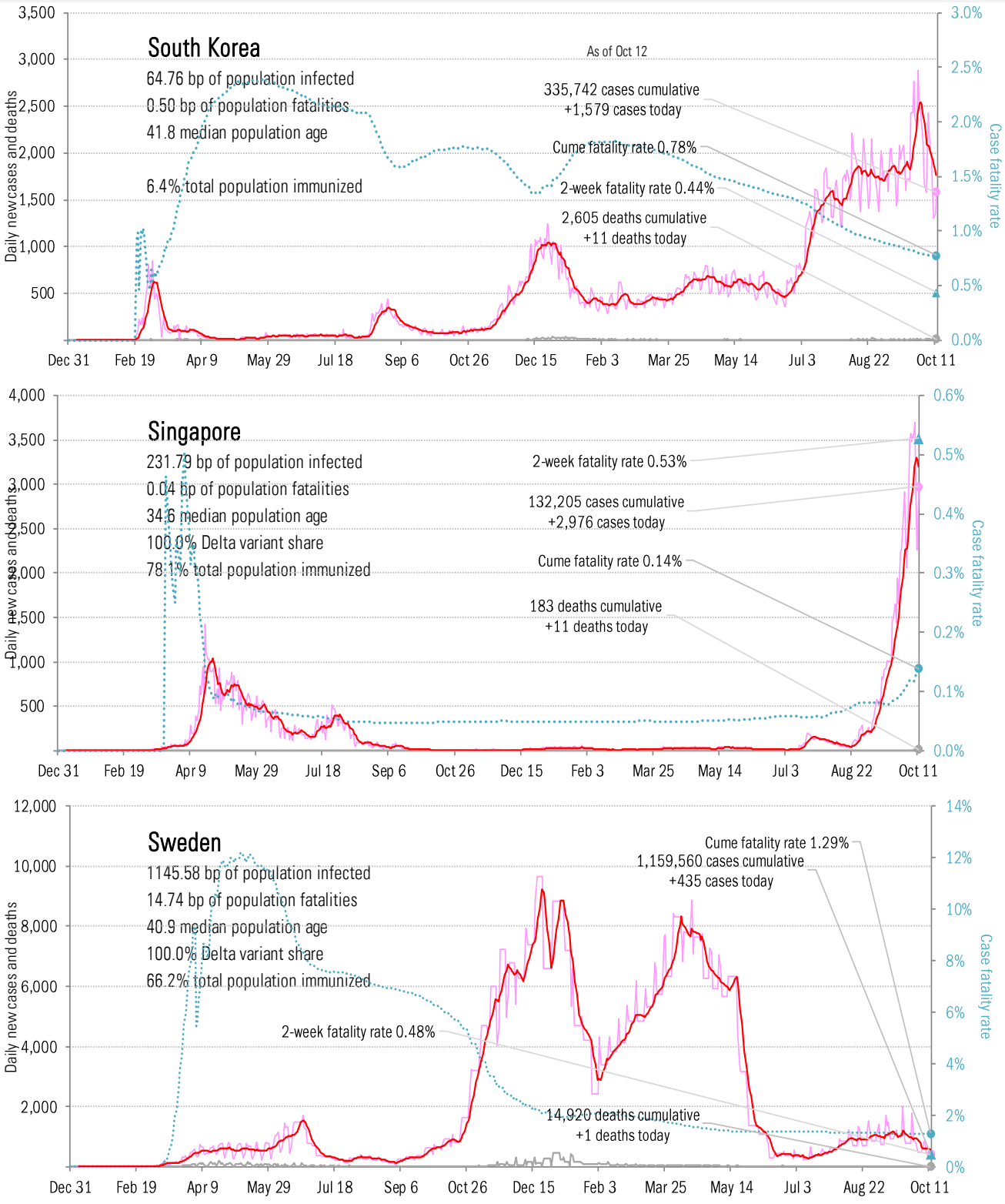
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

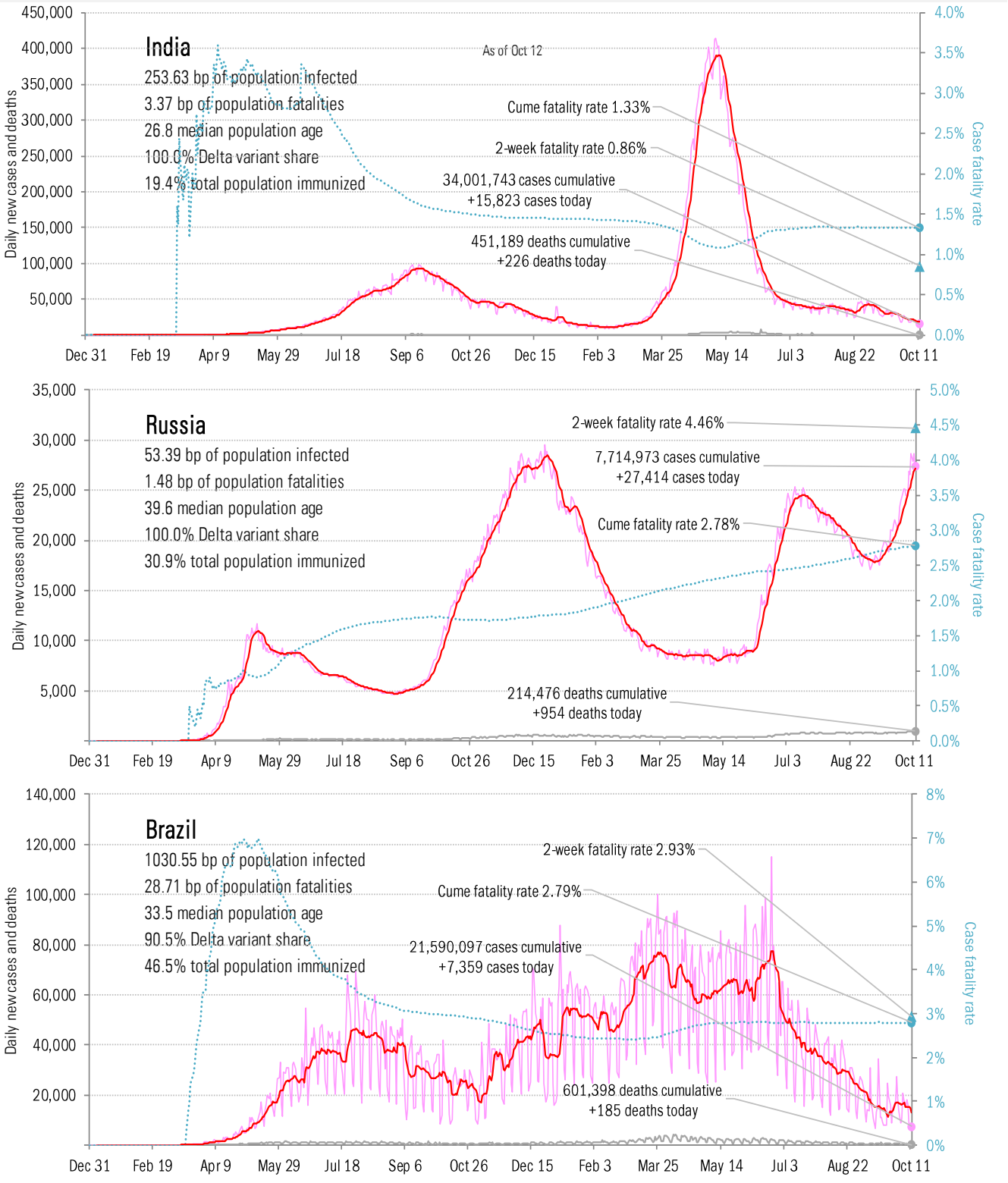
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

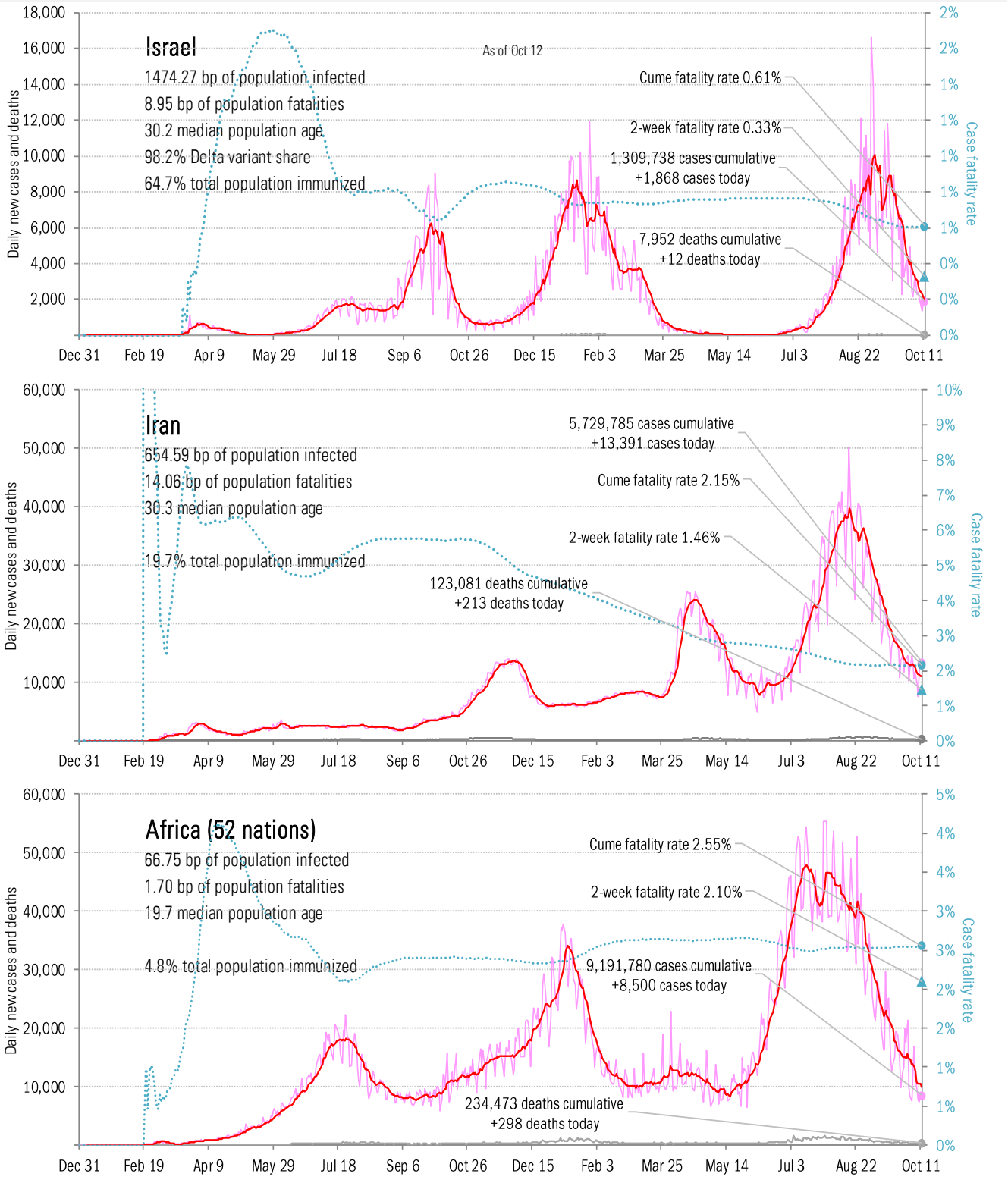
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

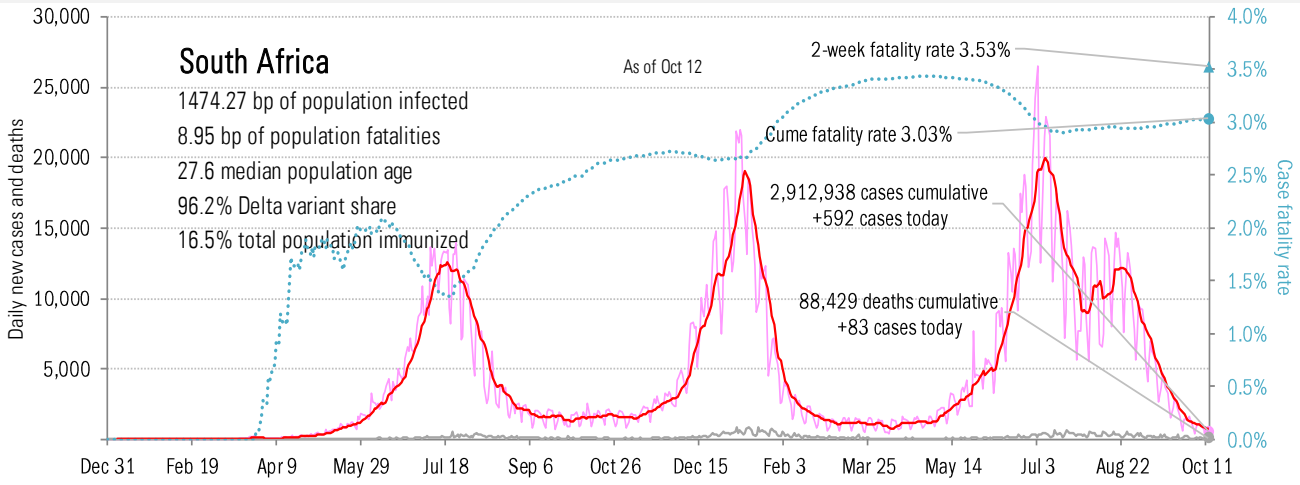
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations