Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

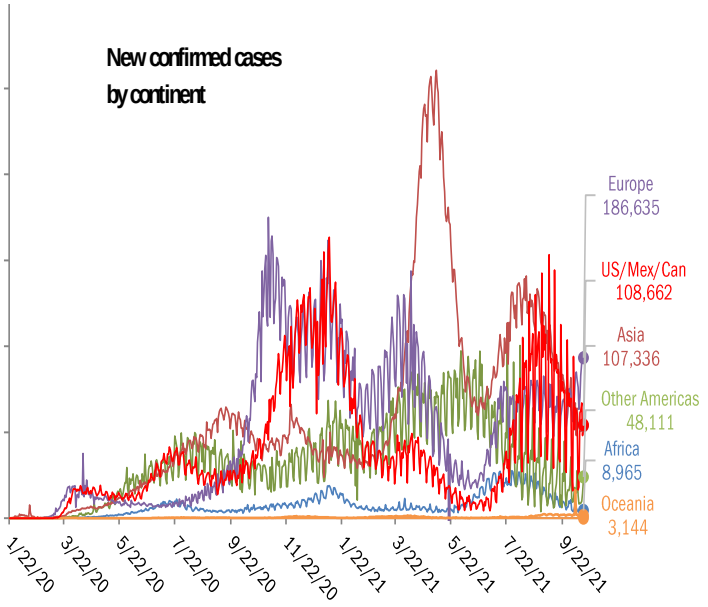
Saturday, October 16, 2021

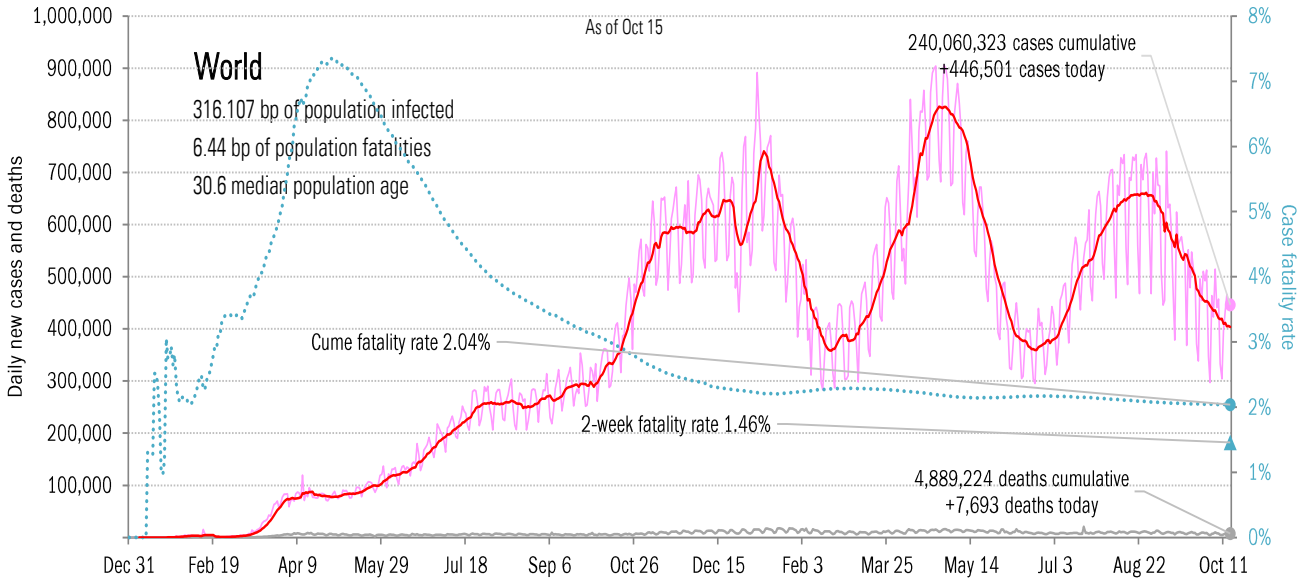
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	+100,610	United States	+2,213
United Kingdom	+44,387	Russia	+979
Russia	+31,362	Brazil	+570
Turkey	+30,694	Mexico	+434
India	+15,981	Romania	+365
Romania	+15,828	Ukraine	+221
Brazil	+15,239	Philippines	+203
Ukraine	+14,458	Iran	+197
Iran	+11,857	Turkey	+181
Germany	+11,664	India	+166
	+292,080		+5,529
World	+446,501	World	+7,693
Top ten	65%	Top ten	72%





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

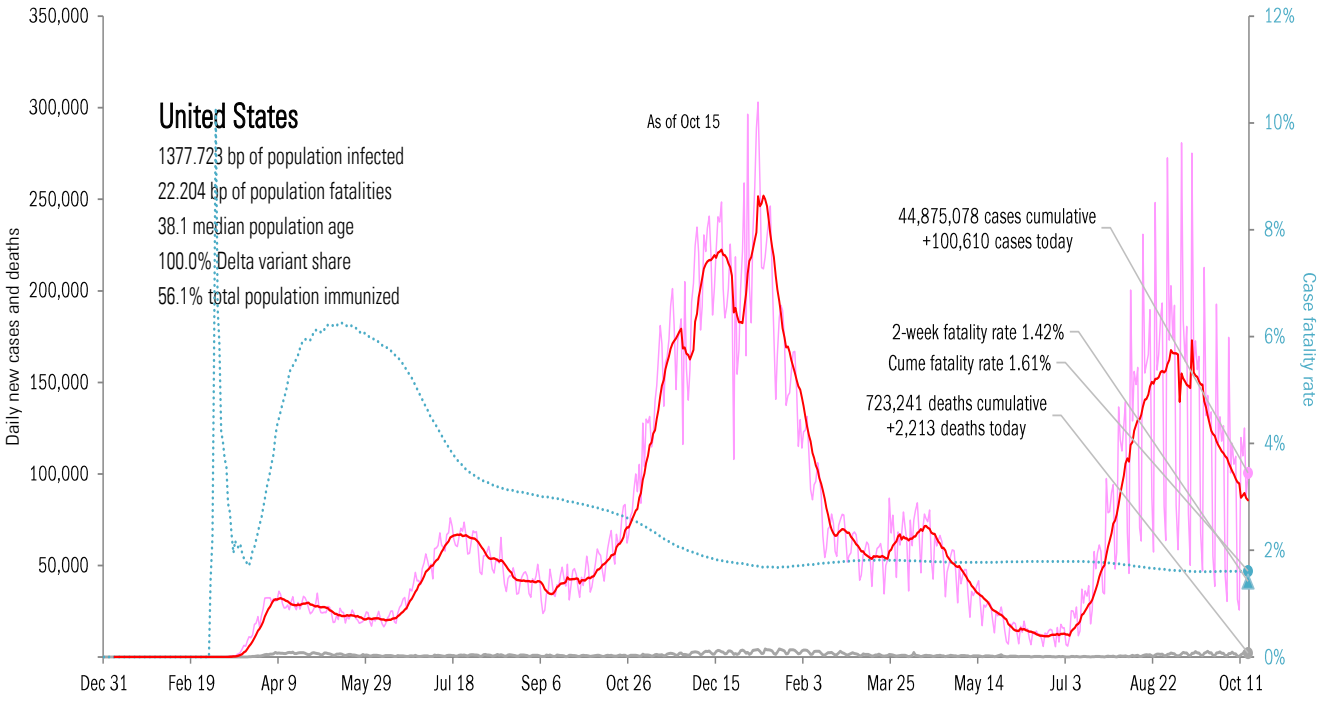
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
MI	+9,989	OH	+306	NH	+35	CA	4,810,222	CA	70,598	TX	367,915	RI	89%	TX	90%
CA	+7,461	TX	+256	NY	+26	TX	4,175,460	TX	68,723	FL	314,220	MA	88%	ID	89%
TX	+6,796	GA	+209	NJ	+22	FL	3,654,577	FL	57,346	CA	303,130	PA	86%	GA	89%
NY	+6,223	FL	+170	AZ	+21	NY	2,498,646	NY	55,916	NY	159,760	MD	84%	KY	89%
PA	+5,725	CA	+142	KY	+21	IL	1,665,777	PA	30,418	GA	156,522	GA	83%	AL	87%
OH	+4,937	SC	+118	MA	+15	GA	1,615,699	IL	27,840	OH	117,889	MI	83%	NM	87%
OR	+3,422	MI	+105	PA	+15	PA	1,502,124	GA	27,774	PA	111,527	NY	82%	NE	86%
MN	+3,341	PA	+82	MS	+10	OH	1,490,451	NJ	27,692	KY	109,117	MN	82%	OK	86%
NC	+3,182	OR	+77	NE	+9	NC	1,446,881	OH	23,327	IL	102,473	MO	82%	RI	85%
CO	+2,825	TN	+61	DE	+8	TN	1,263,068	MI	22,969	MI	87,140	WA	81%	AK	84%
	+53,901		+1,526		+182		24,122,905		412,603		1,829,693				
All states	+100,610		+2,213		-470	All states	44,875,078		723,241		3,260,248	All states	70%		67%
Top ten	54%		69%		-39%	Top ten	54%		57%		56%	Median	78%		80%

Some states not reporting

Five most improved US states

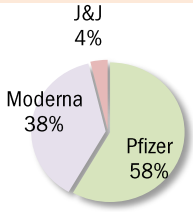
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
FL	-3,836	AL	-80	MN	-58	NY	+50 bp
WI	-2,916	IN	-65	WI	-56	UT	+30 bp
NC	-579	NV	-35	UT	-48	MS	+20 bp
ID	-415	NC	-34	FL	-41	PA	+20 bp
CT	-414	MO	-30	MT	-36	WY	+20 bp



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	418,006,101				+1.165 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	223,625,701	67%	193,393,686	58%	+0.387 million
Age 12 to 17	14,000,342	59%	11,533,527	48%	+0.038 million
Age 18 to 64	154,612,681	76%	133,311,513	65%	+0.300 million
Age 65 and over	53,919,437	99%	47,652,047	87%	+0.047 million



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

Best
Middle
Worst

Every American >18 immune in
63 days
by Dec 17, 2021

70.1% of population >18 immunized
16.0% previously tested positive
86.1% vs 60% adult herd immunity

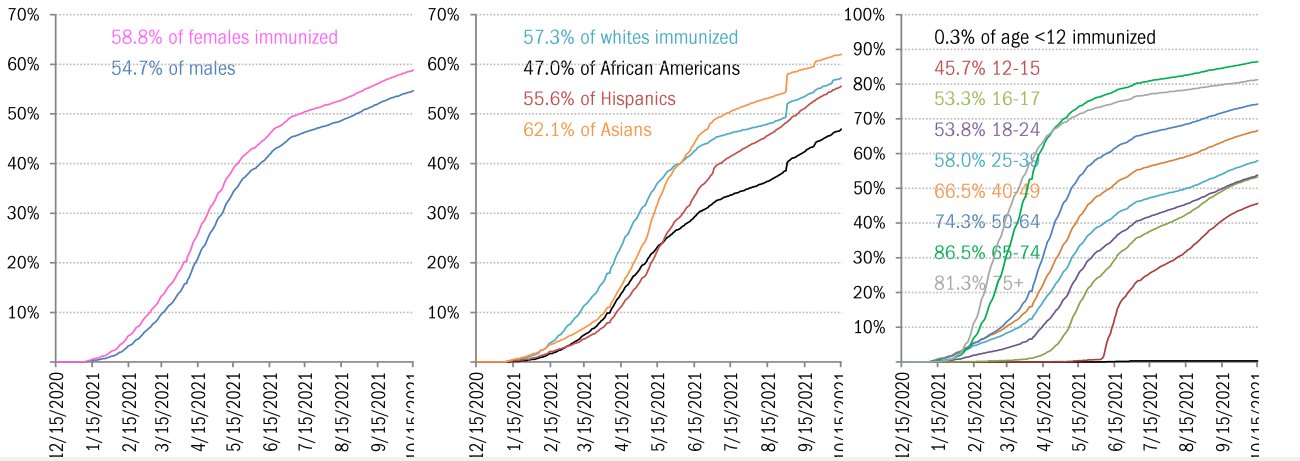
As of Oct 15

Immunity	Full	Partial
US	56.1%	64.9%
UK	65.7%	72.3%
France	67.1%	75.2%
Spain	79.2%	81.0%
Germany	65.2%	68.2%
Italy	69.8%	76.4%
Australia	54.7%	70.6%
Israel	64.8%	70.6%
Canada	72.6%	77.5%
Japan	66.4%	75.1%
Africa	5.0%	7.6%
India	19.9%	49.8%
Brazil	48.5%	72.7%
China	72.6%	76.2%

Global data differs from sources, timing

AK					WI					ME
58.3%					61.8%					75.2%
51.5%					57.5%					69.5%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
68.3%	48.1%	55.8%	52.2%	64.3%	69.4%	57.4%		72.8%	78.7%	72.5%
62.4%	42.7%	49.4%	45.2%	59.0%	54.3%	52.9%		65.3%	70.4%	62.3%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
67.5%	62.0%	49.7%	60.6%	58.8%	53.0%	55.0%	75.0%	73.7%	78.7%	
62.0%	51.8%	42.9%	52.6%	54.8%	49.2%	51.1%	59.2%	65.4%	68.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
73.1%	60.2%	66.5%	60.2%	55.9%	62.0%	48.6%	69.7%	71.8%	77.6%	76.7%
60.2%	52.5%	60.5%	55.5%	49.0%	53.8%	40.8%	61.9%	65.2%	69.8%	69.7%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	60.2%	73.7%	61.1%	56.6%	53.7%	61.9%	56.4%	72.4%	67.7%	
	52.1%	64.2%	52.2%	46.7%	46.7%	51.6%	48.8%	61.3%	58.8%	
			OK	LA	MS	AL	GA			
			57.8%	52.7%	51.1%	53.5%	55.9%			
			48.9%	46.6%	44.7%	43.8%	47.0%			
HI			TX					FL		PR
77.6%			60.5%					68.0%		80.4%
58.9%			52.3%					58.7%		71.9%

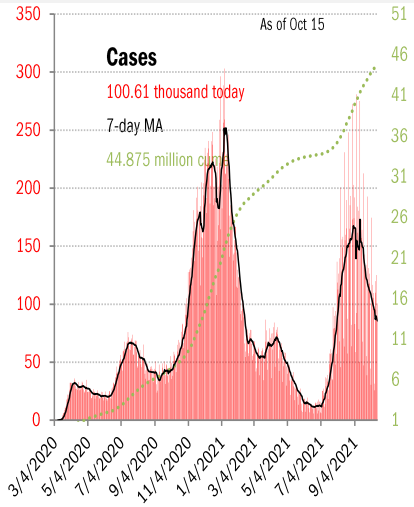
The demographics of US vaccination

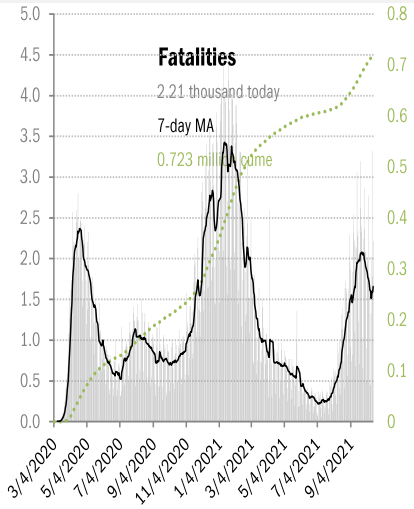


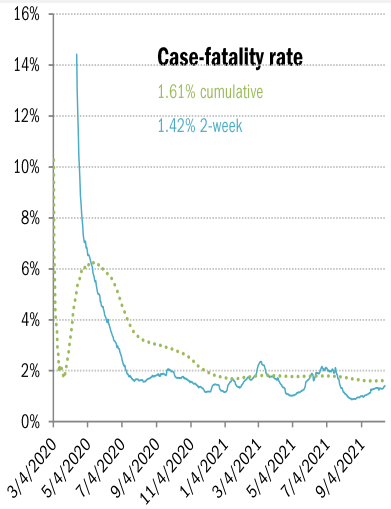
Source: CDC, CDC, Our World in Data, TrendMacro calculations

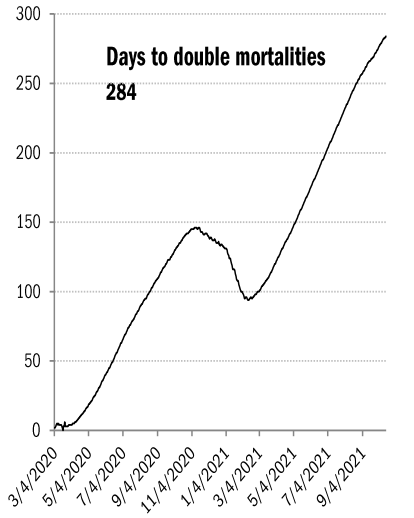
US deep-dive

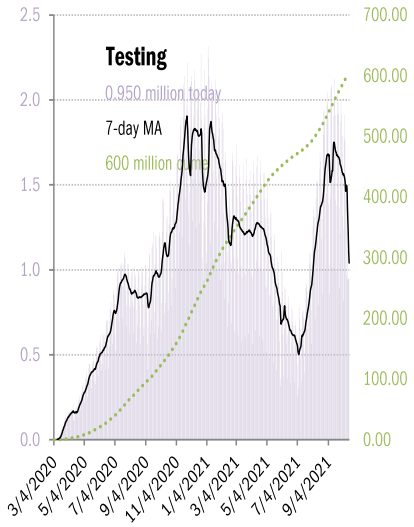
National and state-by-state data do not line up because of different sources

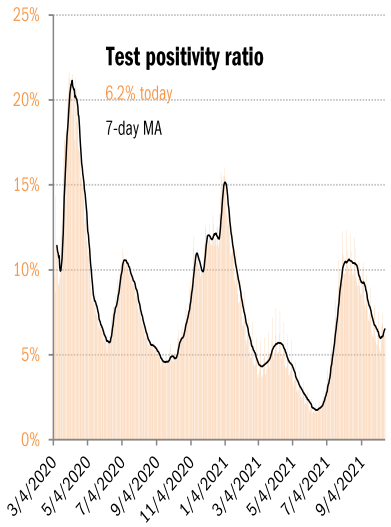


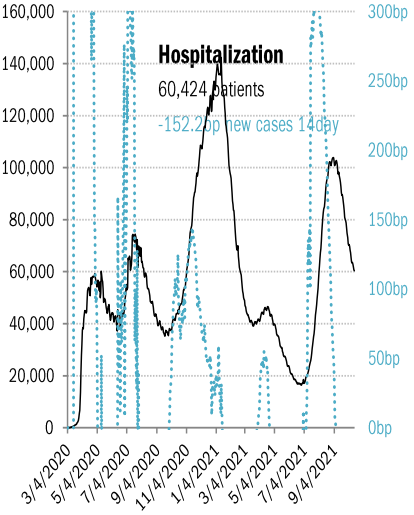


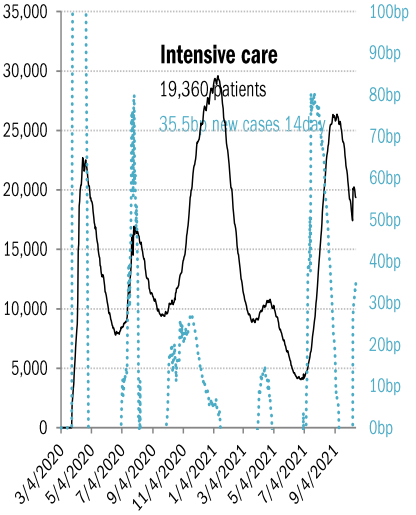


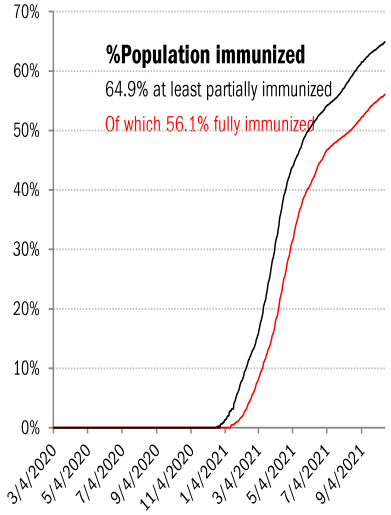












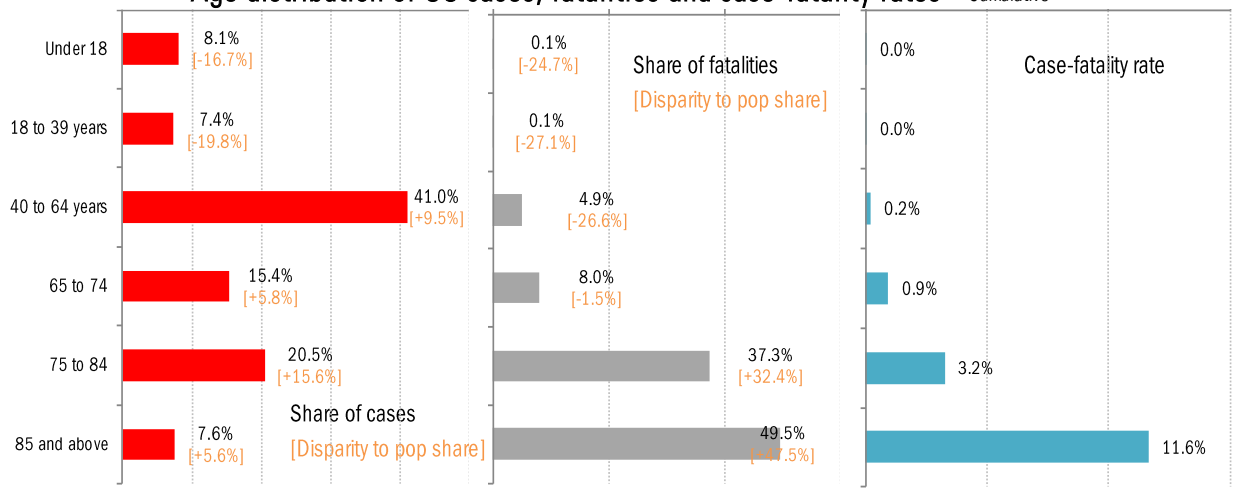
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

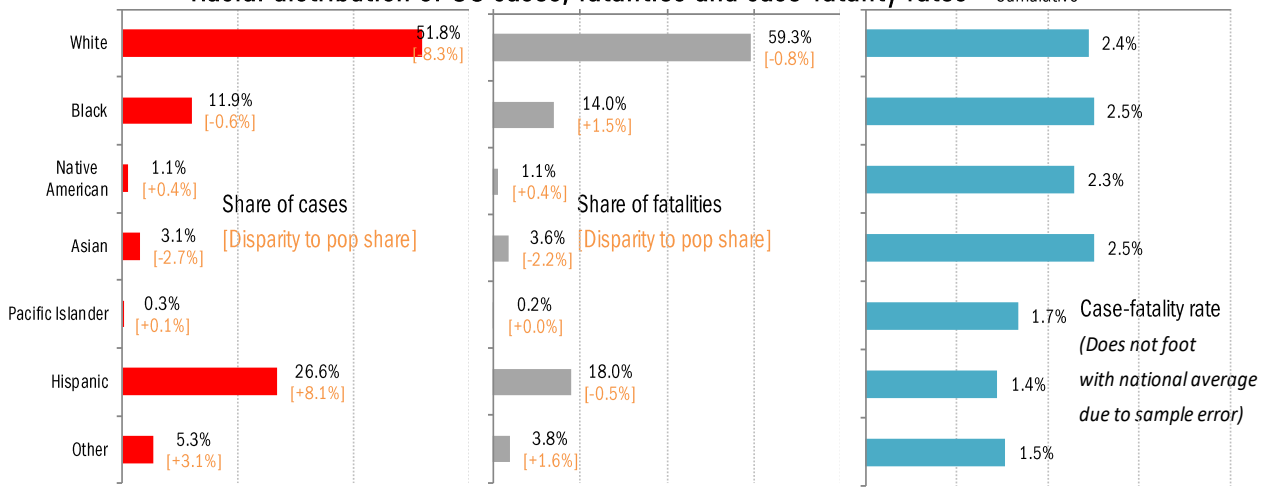
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



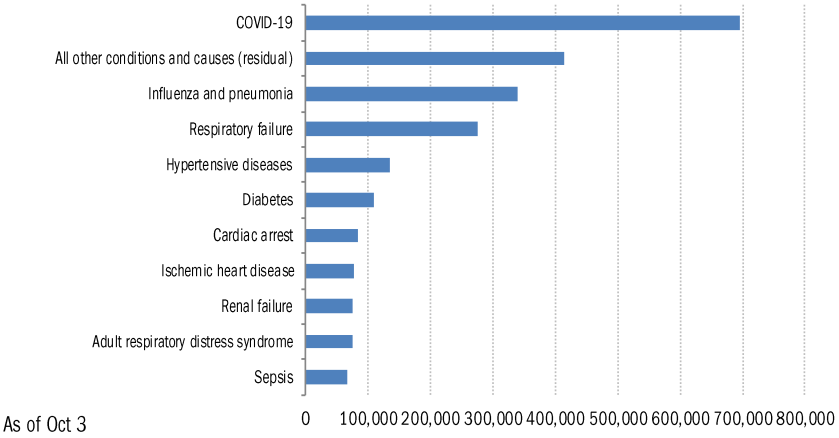
Racial distribution of US cases, fatalities and case-fatality rates

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

F.D.A. Panel Unanimously Recommends Johnson & Johnson Booster Shots
Sharon LaFraniere, Noah Weiland and Carl Zimmer
New York Times
October 15, 2021

Captain Kirk vs. Prince William
Wall Street Journal
October 15, 2021

Covid Anxiety Is a Health Problem Too
Marc Siegel
Wall Street Journal
October 15, 2021

Italy Puts in Force Tough New Law Requiring Workers to Test or Vaccinate
Jason Horowitz
New York Times
October 15, 2021

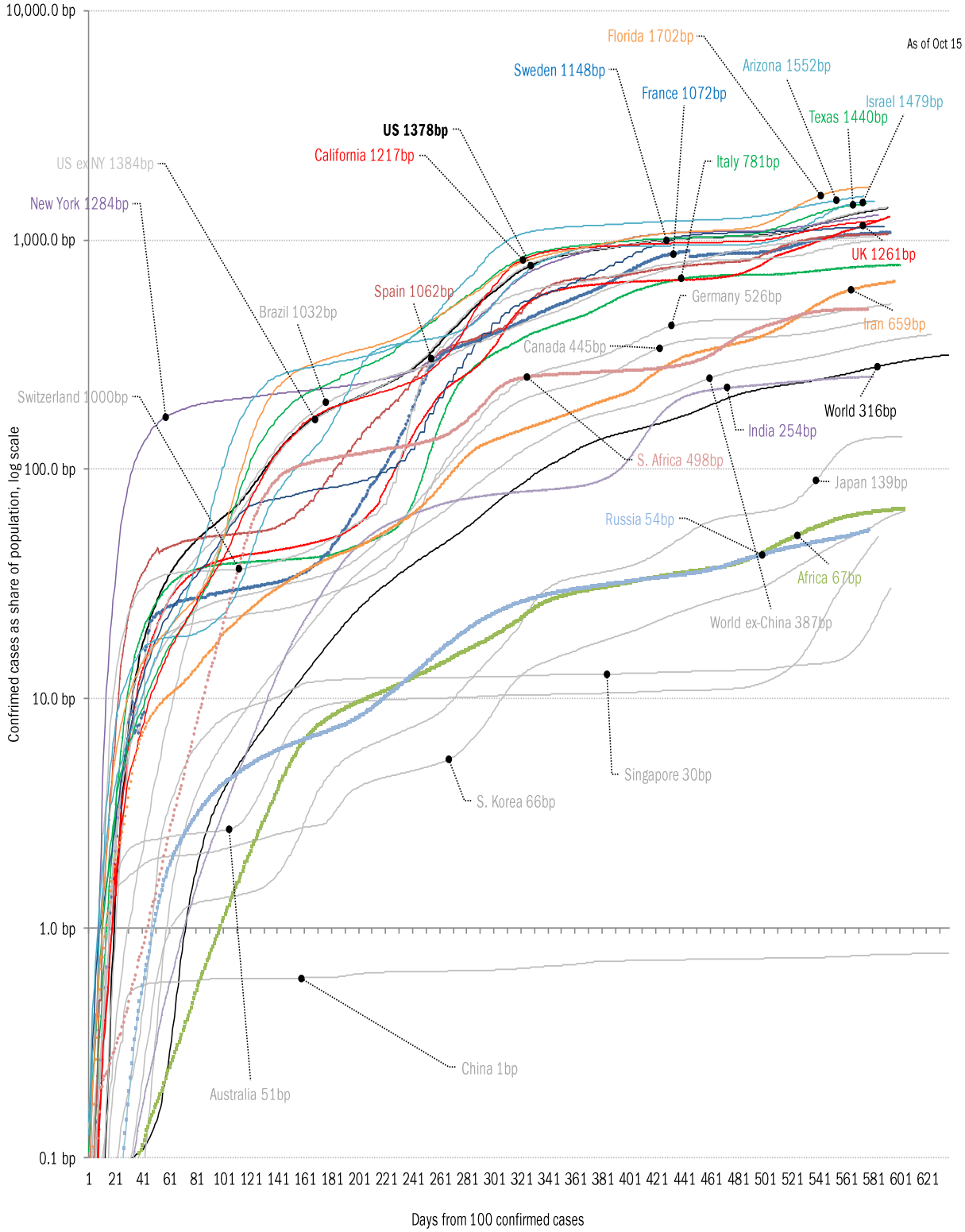
NBA Star Says the Jab Gave Him Blood Clots That Ended His Season, Maybe His Whole Career
Rich Welsh
DJHJ Media
October 13, 2021

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

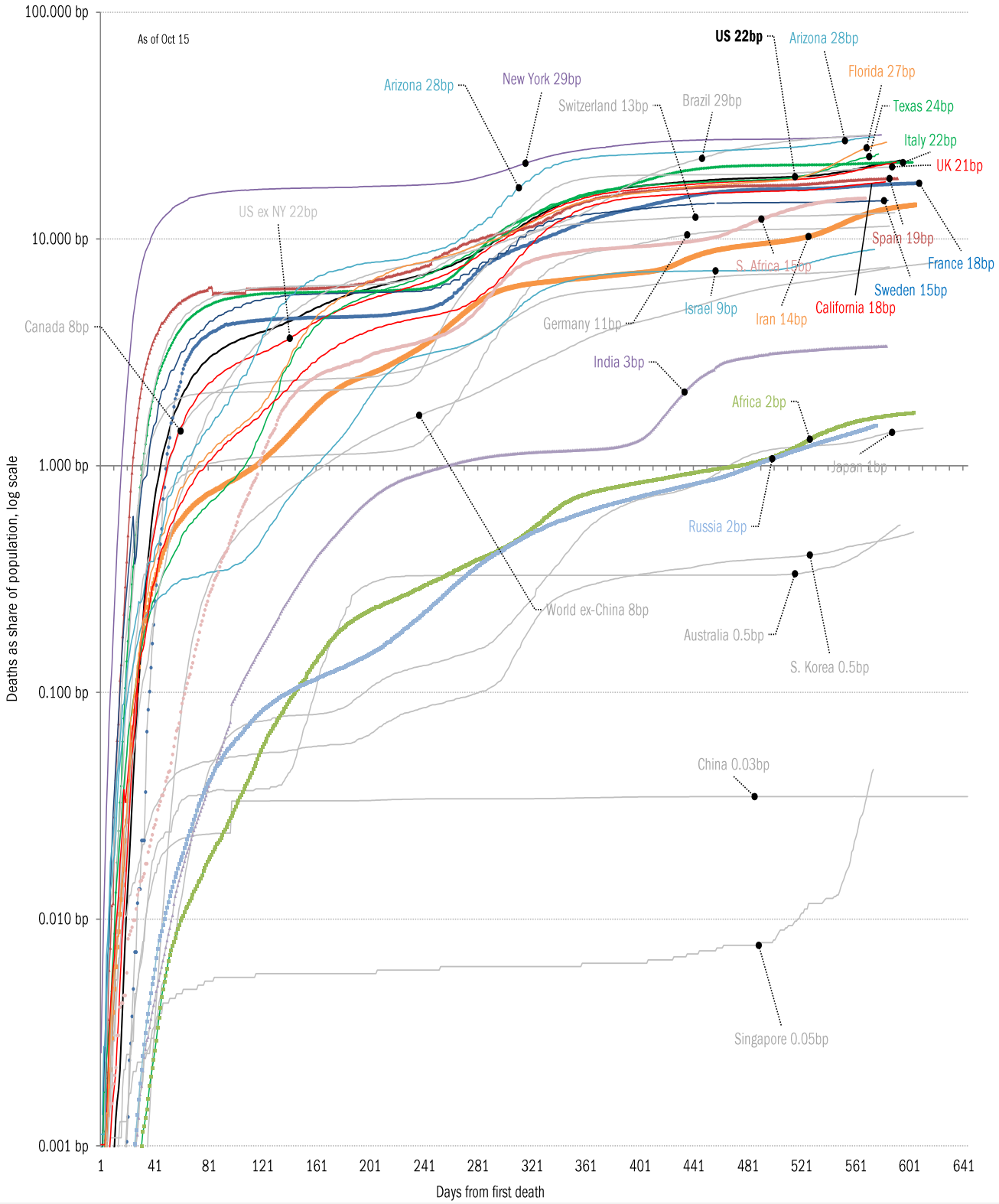
Share of infected population from first day with 100 confirmed cases, log scale



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

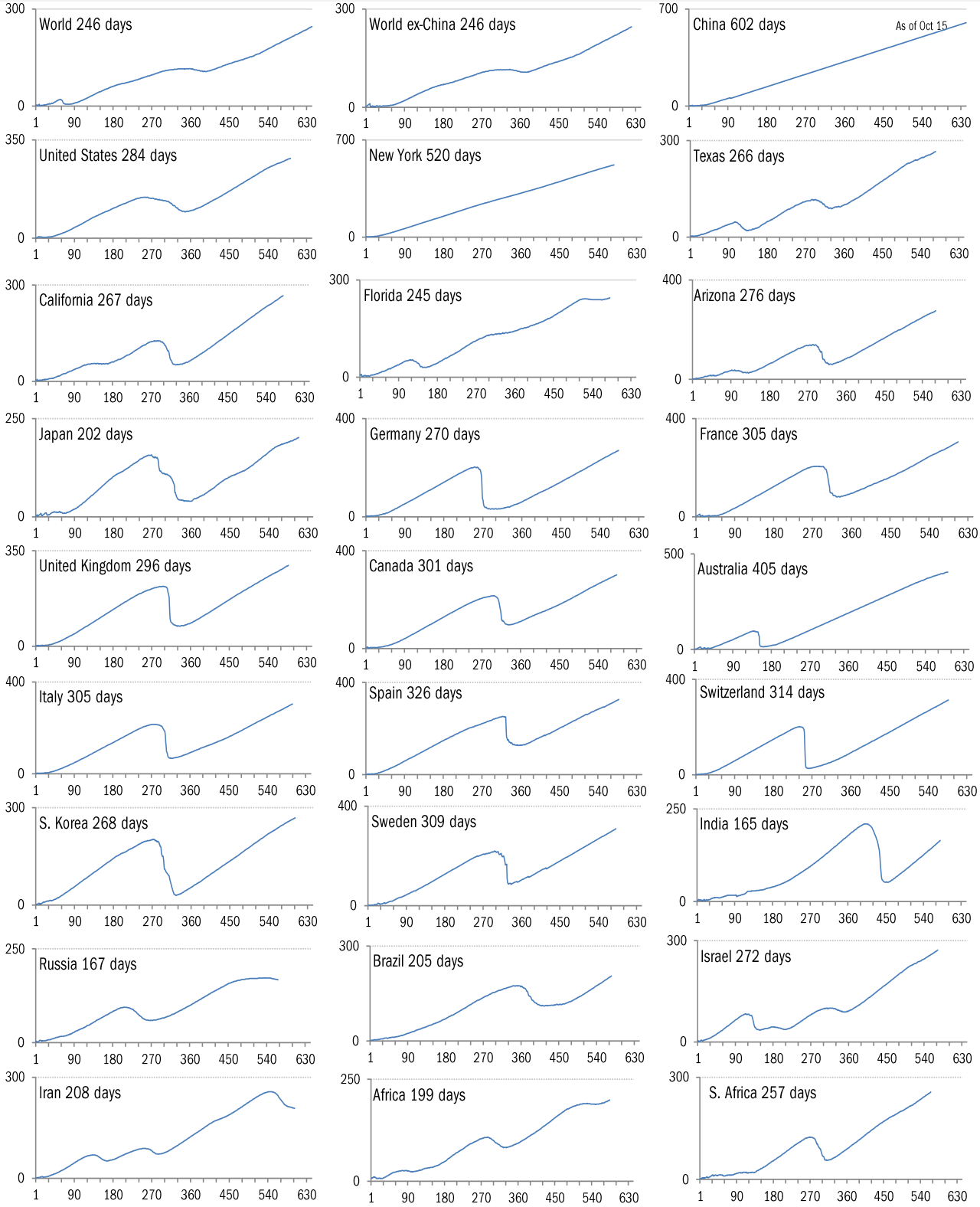


Source: Johns Hopkins, TrendMacro calculations

"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

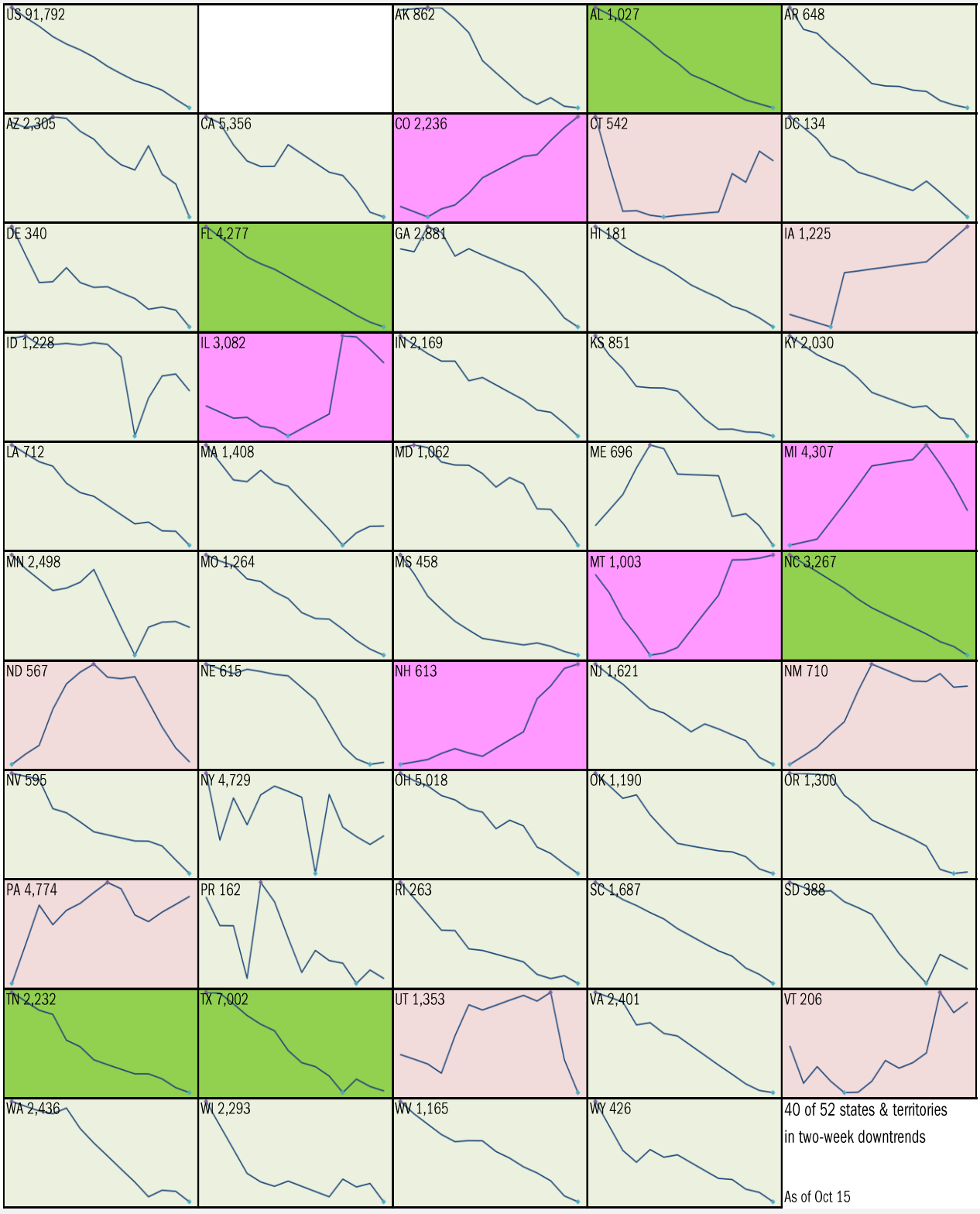


Source: Johns Hopkins, TrendMacro calculations

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

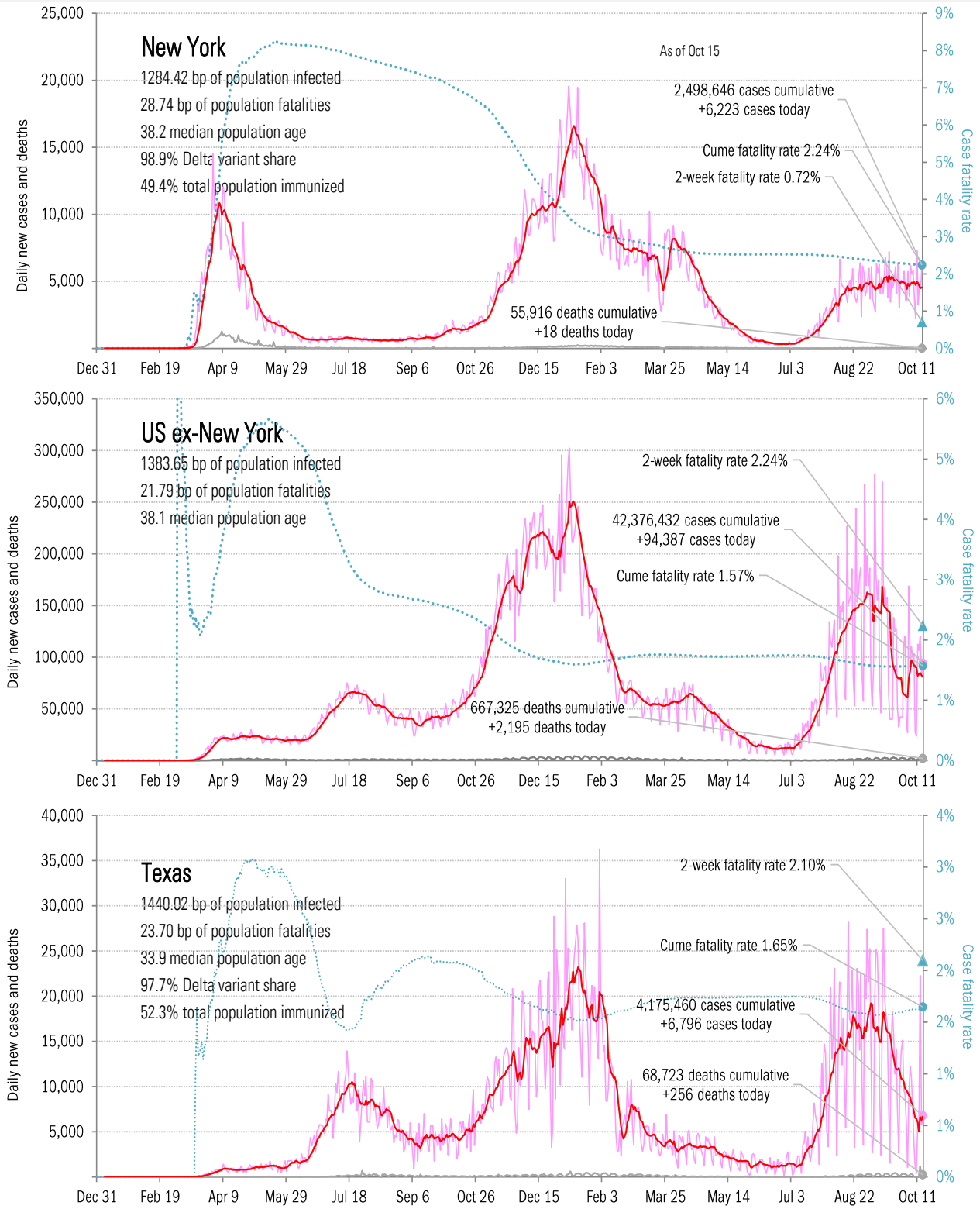
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

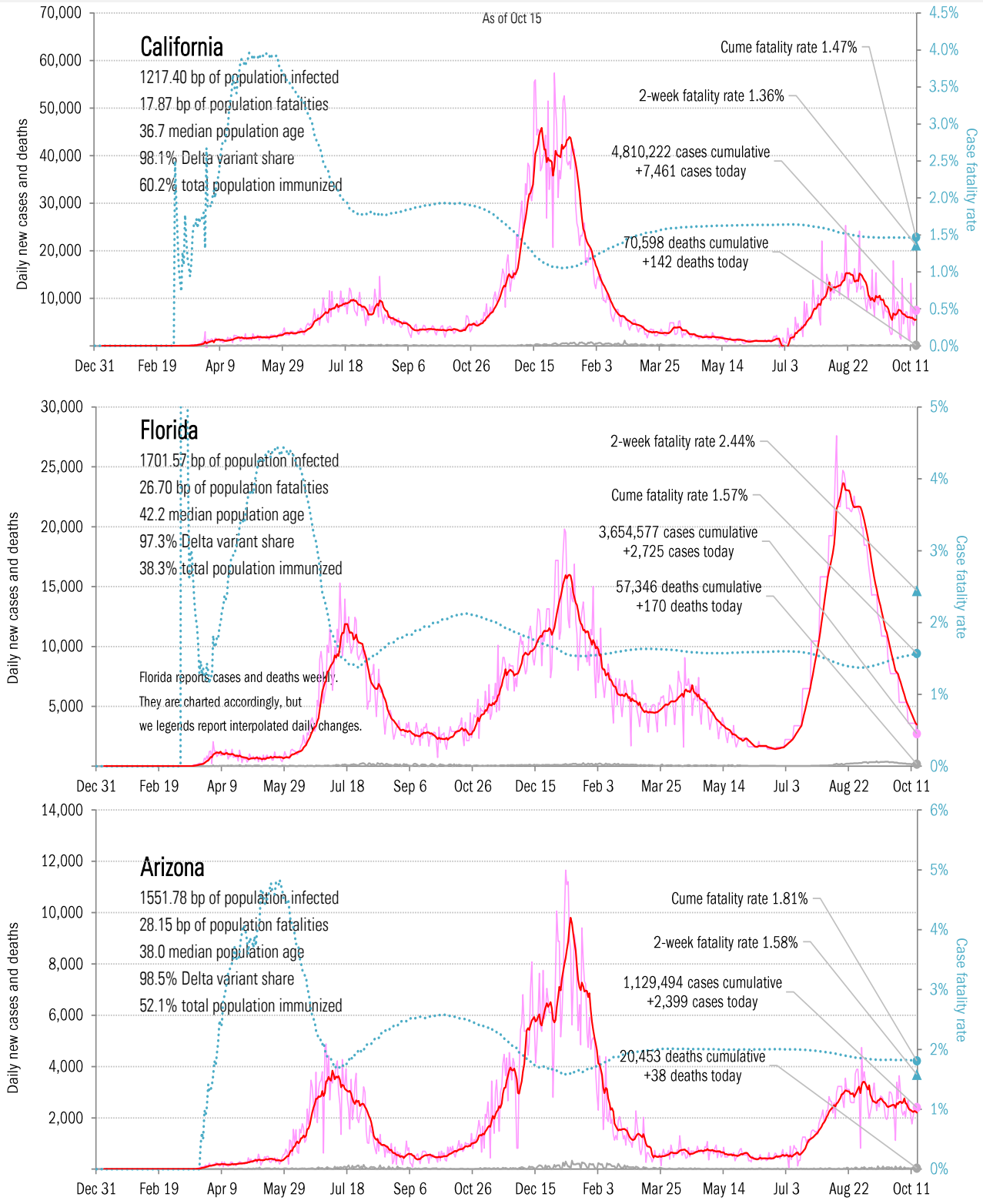
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

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

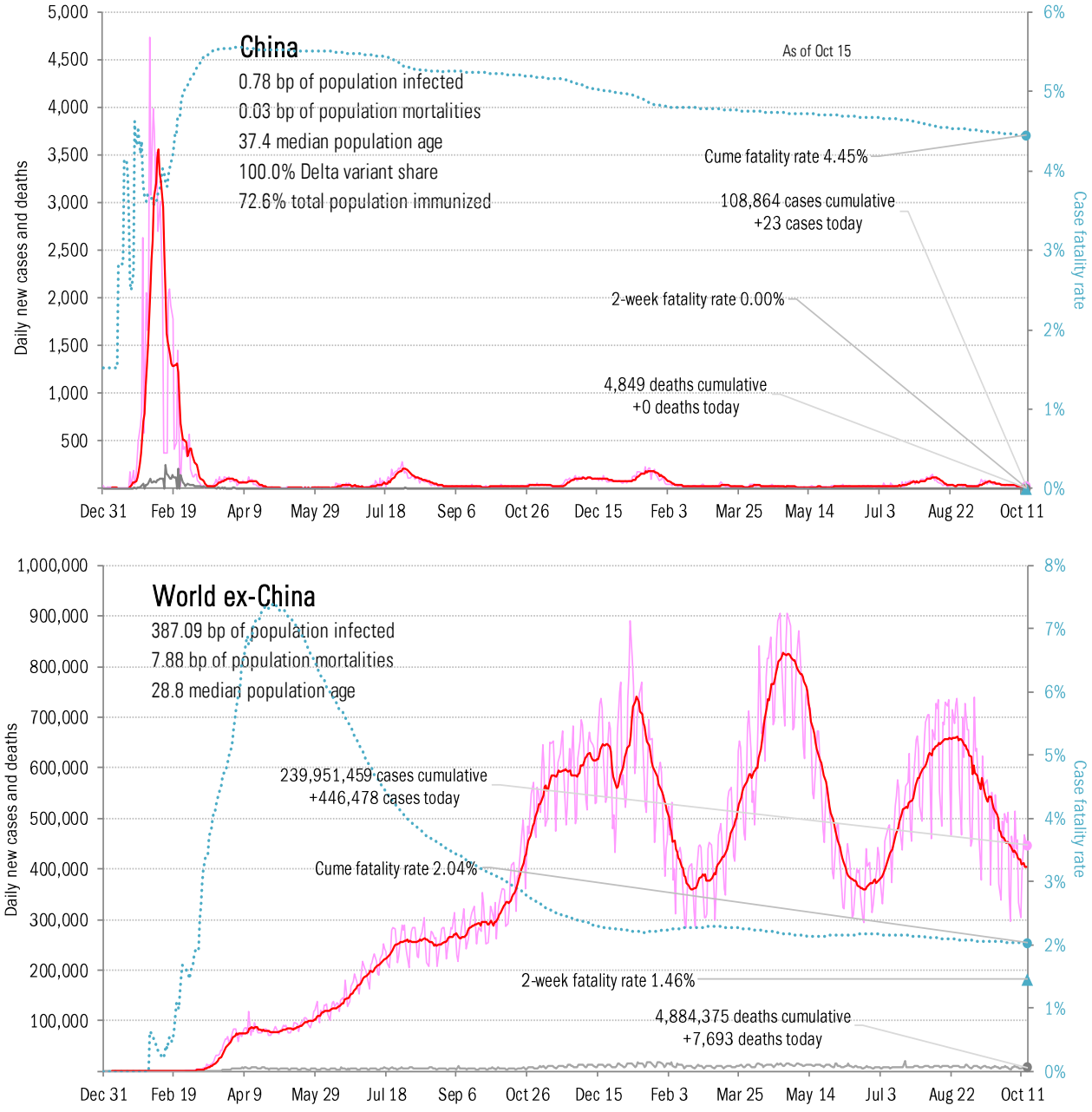
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

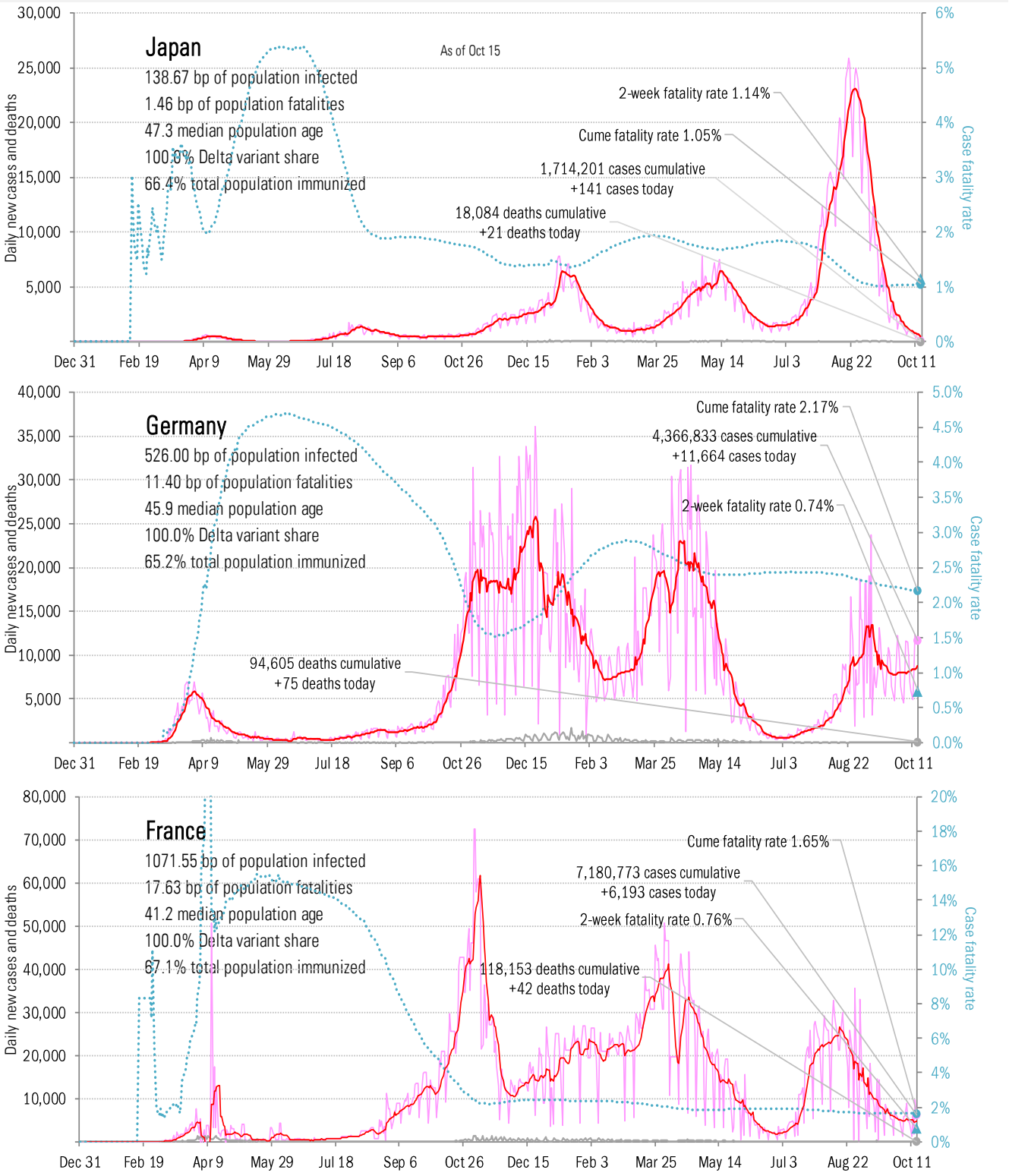
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

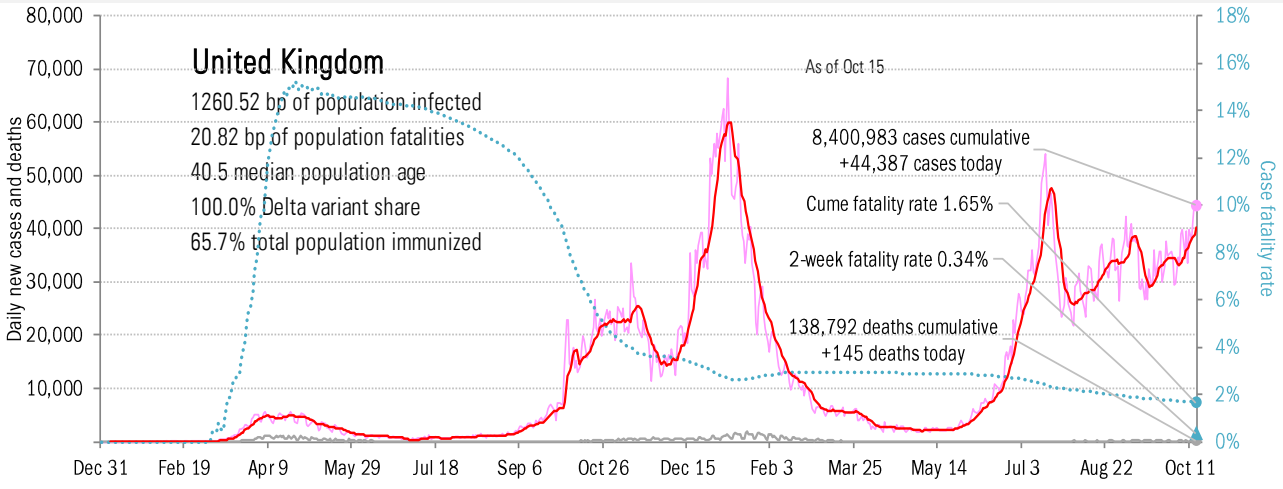
Cases: 7-day average and daily Deaths: Daily

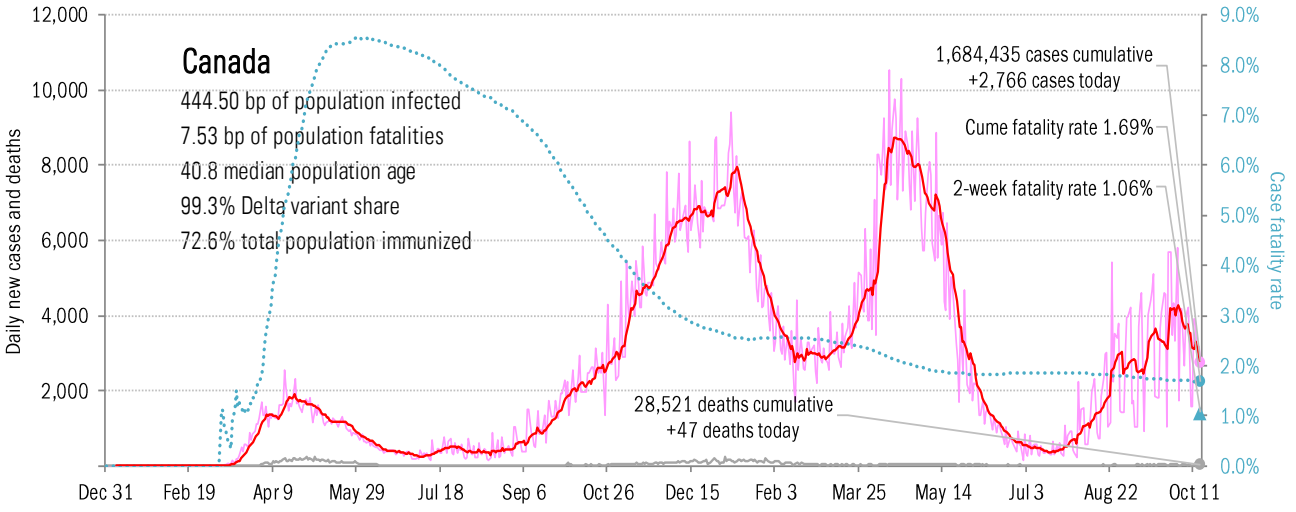


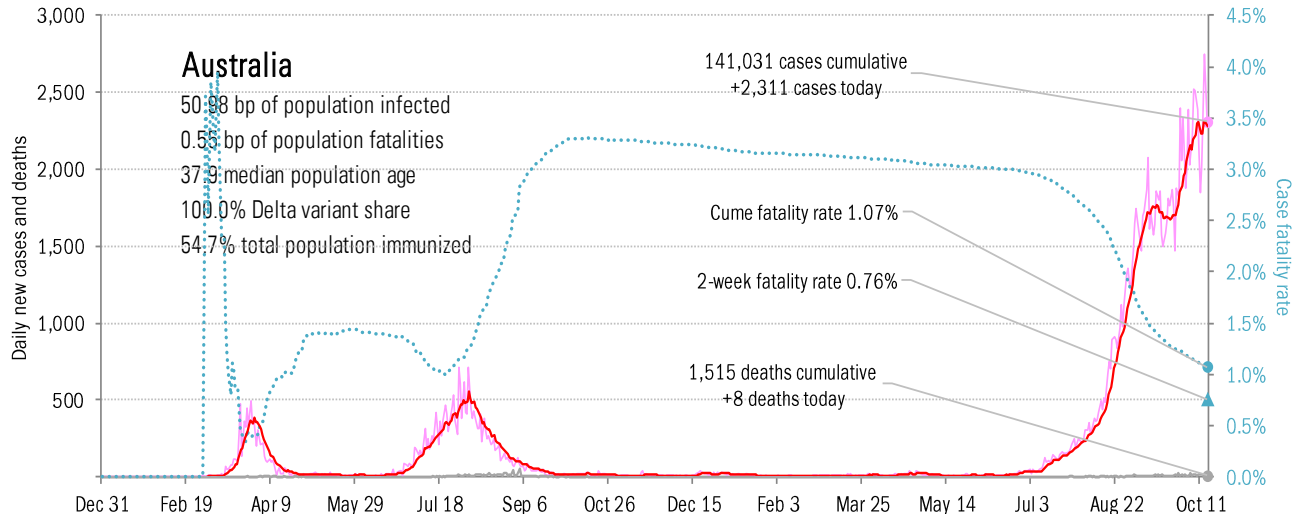
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily



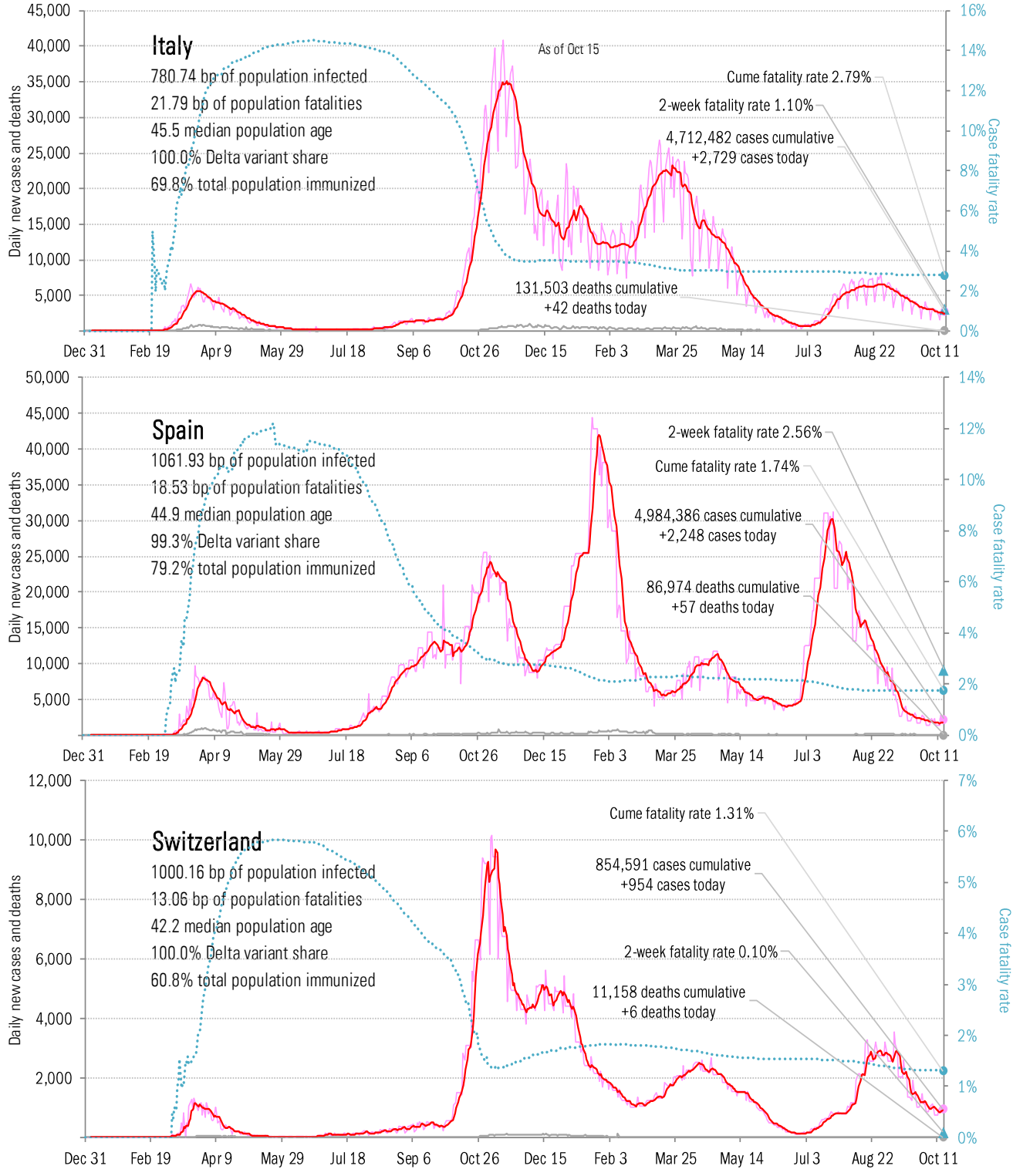




Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

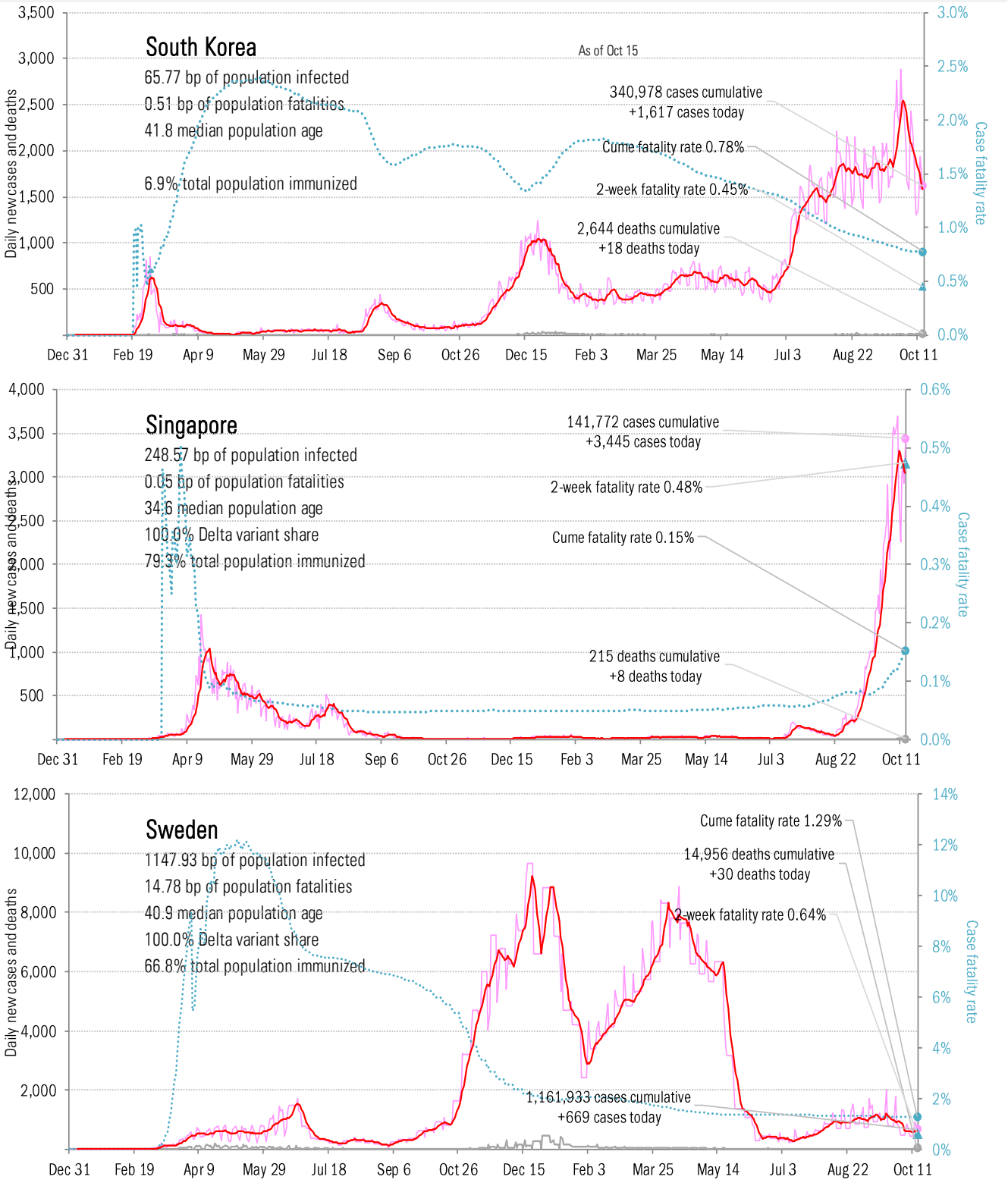
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

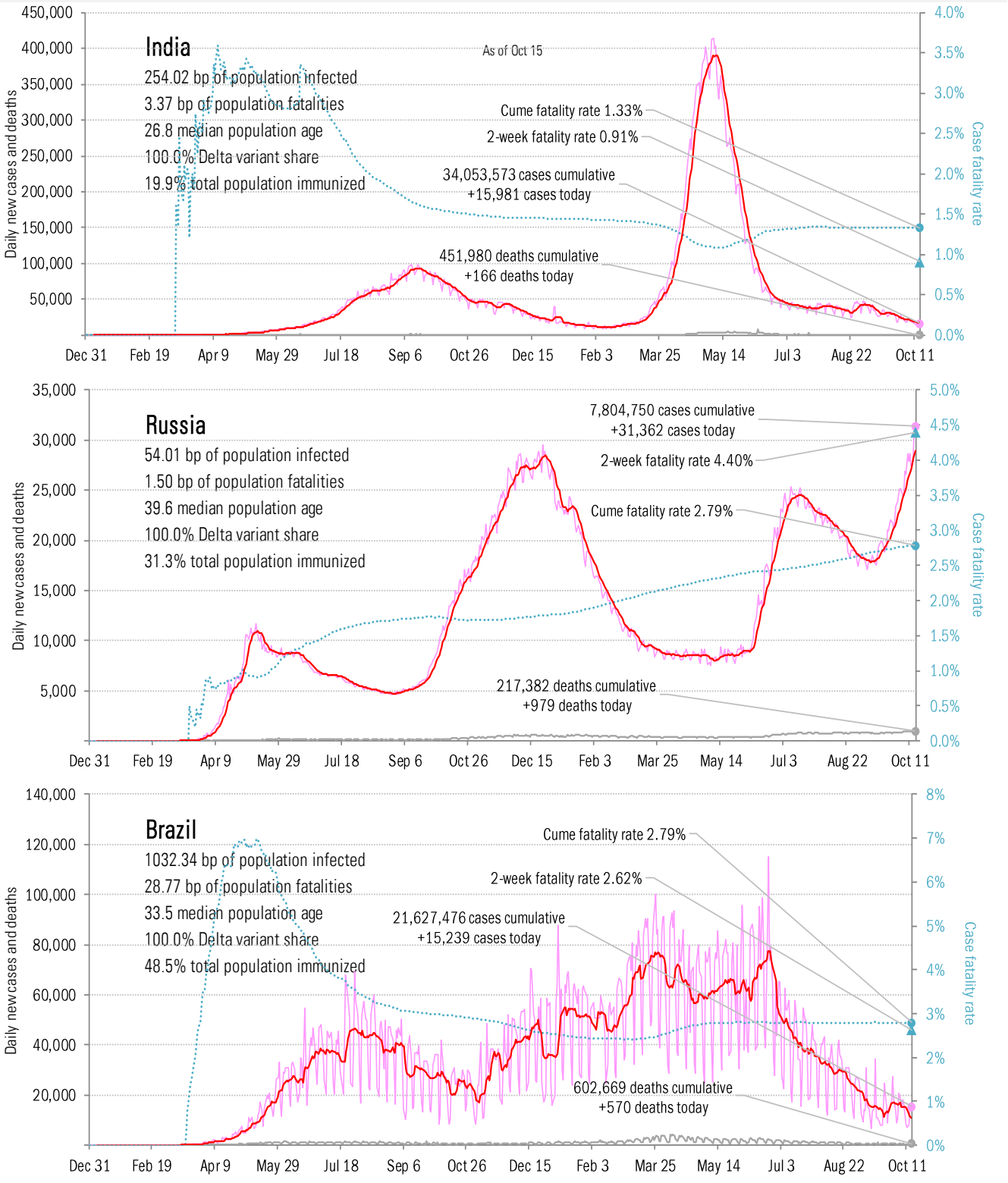
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

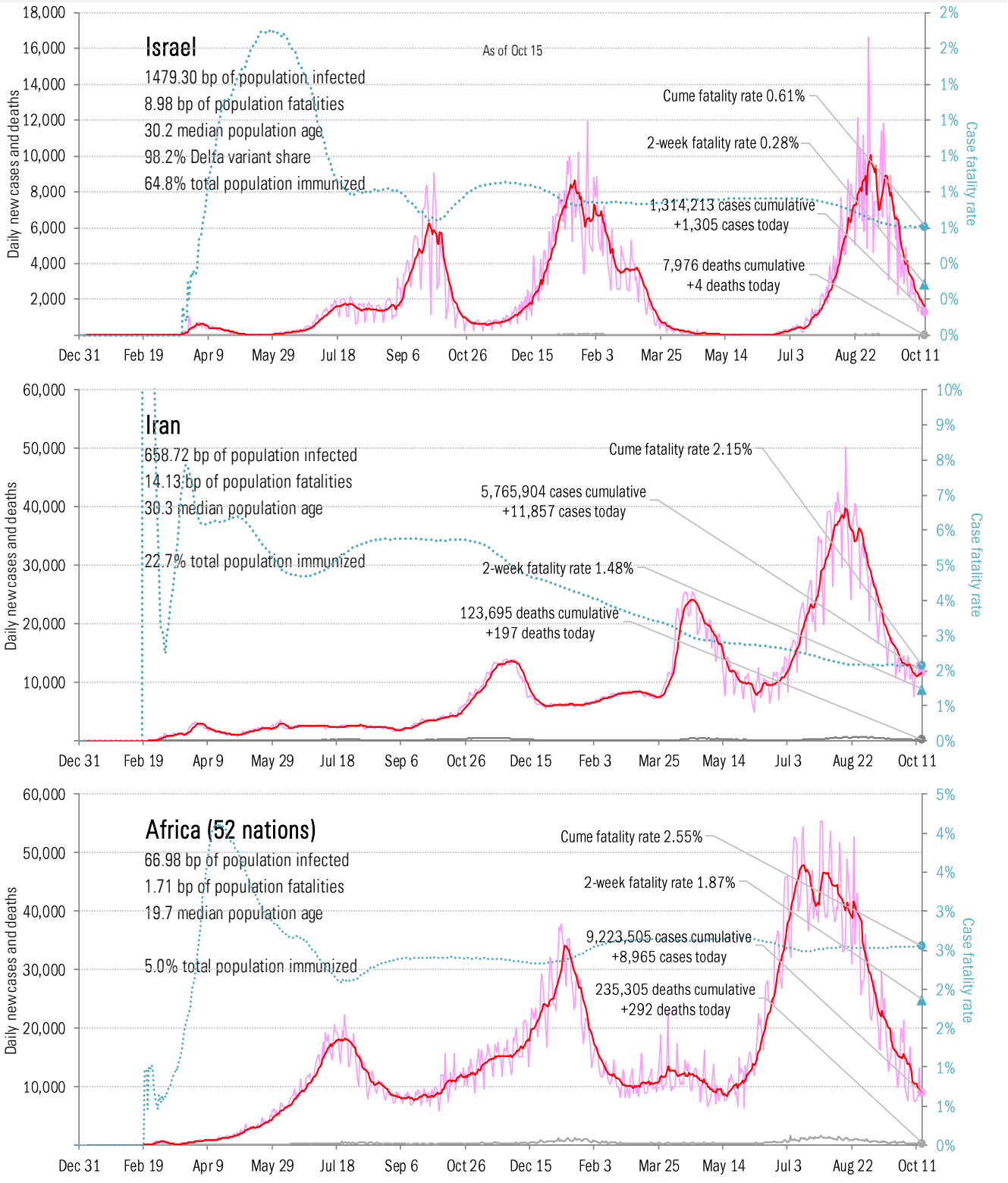
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

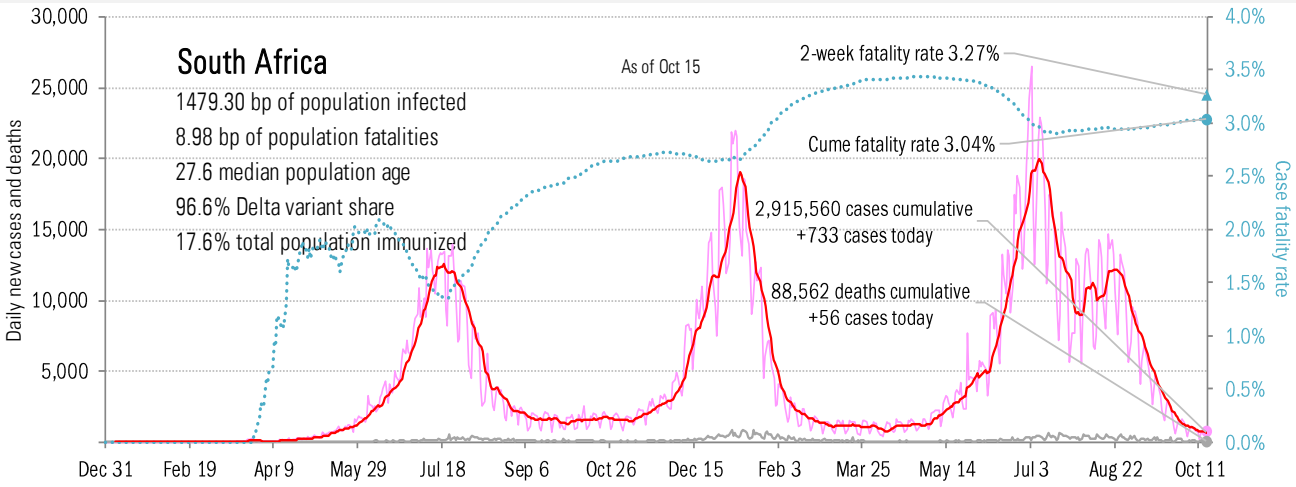
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations