

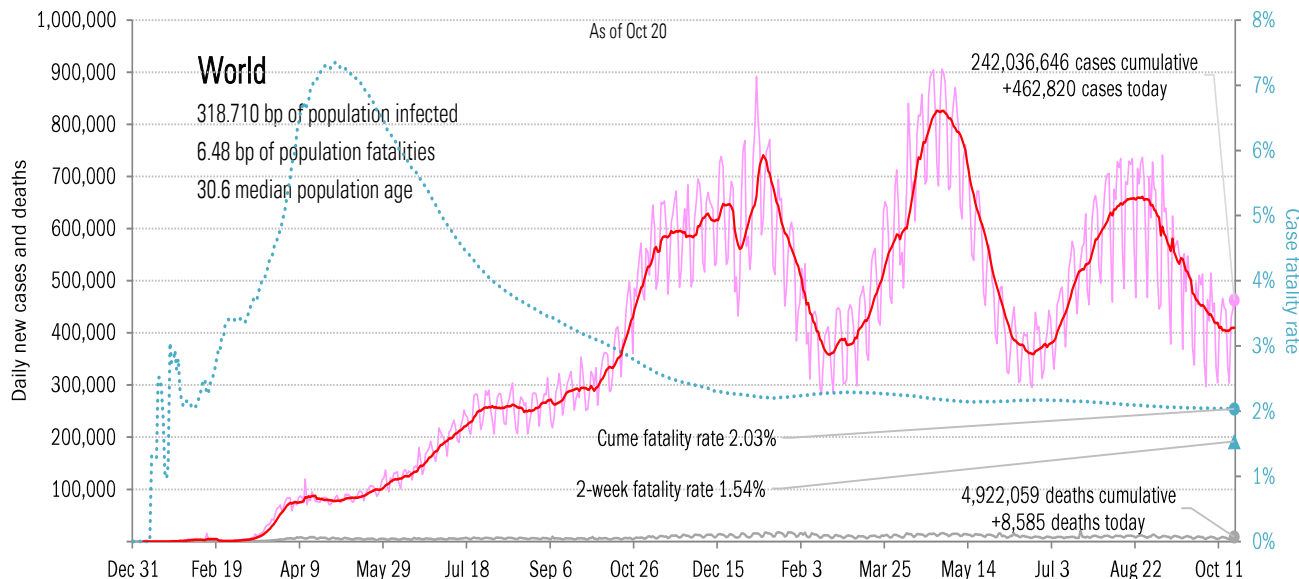
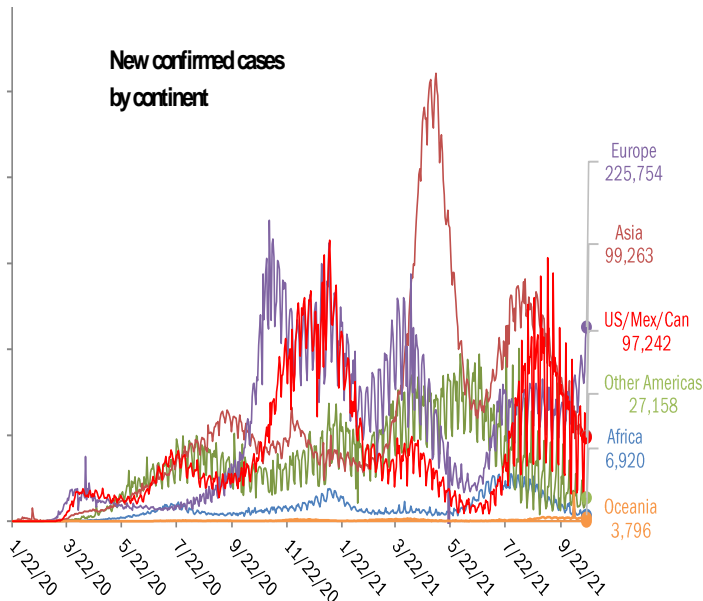
Data Insights: Covid-2019 Monitor

Thursday, October 21, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+89,446	United States	+3,191
United Kingdom	+48,798	Russia	+1,006
Russia	+33,162	Ukraine	+517
Turkey	+29,760	Romania	+423
Ukraine	+19,823	Mexico	+422
Germany	+18,802	Brazil	+373
India	+18,454	Turkey	+214
Romania	+17,158	United Kingdom	+179
Brazil	+15,609	Iran	+162
Iran	+11,770	India	+160
+302,782		+6,647	
World	+462,820	World	+8,585
Top ten	65%	Top ten	77%



Source: [Johns Hopkins](#), TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

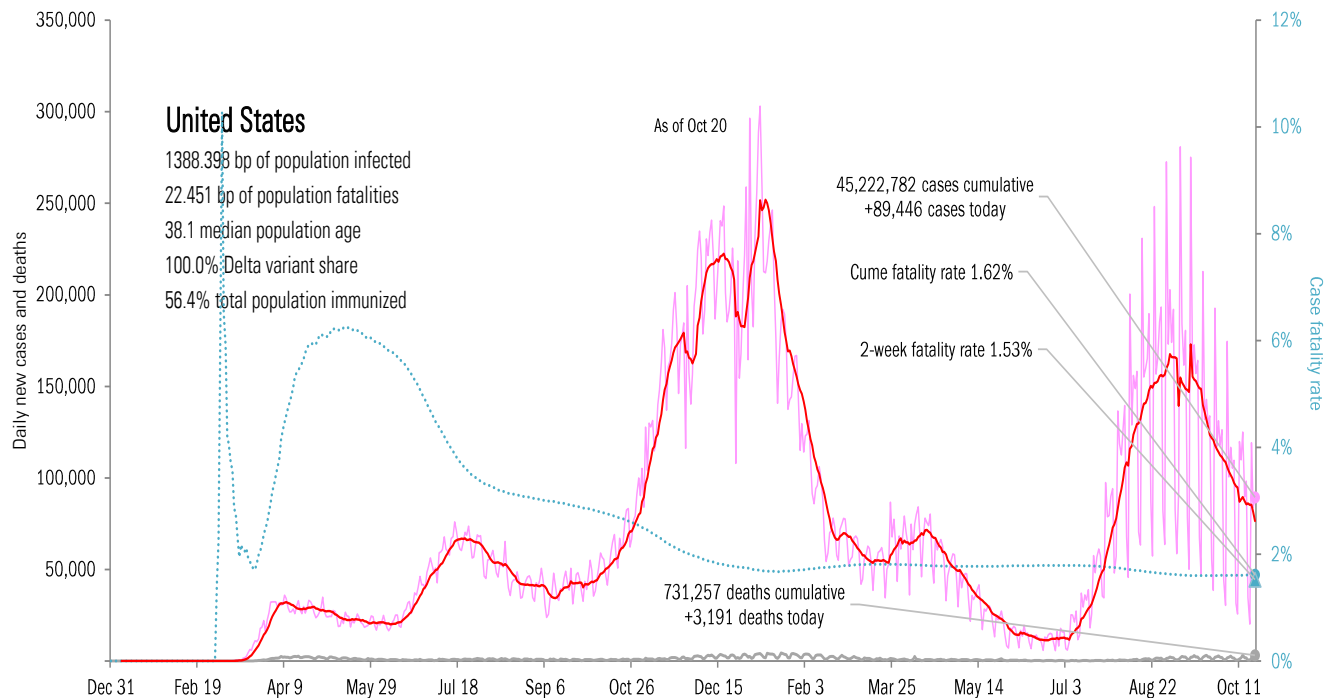
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
MI	+8,789		OK	+1,138		CA	+58		CA	4,835,022		CA	71,032		TX	370,226		RI	88%	TX	90%
IA	+6,907		TX	+261		MT	+21		TX	4,196,761		TX	69,565		FL	315,678		MA	86%	ID	89%
TX	+5,364		CA	+158		SD	+20		FL	3,667,972		FL	58,137		CA	305,120		PA	85%	AK	88%
NY	+4,775		GA	+158		ID	+10		NY	2,519,197		NY	56,077		NY	160,972		MD	82%	KY	88%
CH	+4,574		MI	+156		WY	+10		IL	1,675,793		PA	30,721		GA	157,564		MI	82%	NM	88%
CA	+4,150		PA	+134		AZ	+8		GA	1,622,376		GA	28,234		CH	119,844		MN	82%	AL	87%
PA	+3,584		FL	+120		UT	+8		PA	1,520,815		IL	27,960		PA	113,205		GA	81%	NH	85%
FL	+2,687		IA	+100		NH	+7		CH	1,507,676		NJ	27,783		KY	109,792		NY	81%	GA	84%
NC	+2,610		TN	+81		NM	+7		NC	1,457,798		CH	23,616		IL	103,207		CT	81%	NV	84%
WI	+2,510		WV	+74		LA	+3		TN	1,269,289		MI	23,173		MI	88,410		WA	81%	DE	84%
+45,950			+2,380			+152			24,272,699			416,298			1,844,018						
All states	+89,446			+3,191			-607		All states	45,222,782			731,257			3,288,720		All states	70%		67%
Top ten	51%			75%			-25%		Top ten	54%			57%			56%		Median	76%		79%

Some states not reporting

Five most improved US states

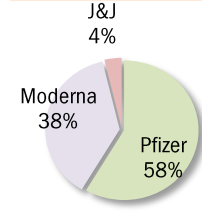
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
AZ	-5,660	CH	-289	NY	-62	UT	+30 bp
WA	-4,956	CA	-248	TN	-57	PA	+20 bp
MN	-3,817	AZ	-174	CH	-53	AL	+10 bp
AK	-2,010	AK	-58	PA	-52	AR	+10 bp
TX	-1,566	WY	-56	CO	-50	CA	+10 bp



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		Immunity	Full	Partial	
Doses	421,746,795		+0.777 million		US	56.4%	65.2%	
	One dose	% Pop	Immune	% pop	New immune today	UK	66.6%	72.6%
Total population	224,726,367	67%	194,483,273	58%	+0.228 million	France	67.4%	75.4%
Age 12 to 17	14,090,641	59%	11,646,197	49%	+0.022 million	Spain	79.4%	81.1%
Age 18 to 64	155,401,692	76%	134,161,870	66%	+0.178 million	Germany	65.4%	68.4%
Age 65 and over	54,136,239	99%	47,773,051	87%	+0.027 million	Italy	70.4%	76.8%
						Australia	58.0%	71.9%
						Israel	64.9%	70.7%
						Canada	73.2%	77.8%
						Japan	68.6%	76.3%
						Africa	5.2%	7.8%
						India	20.9%	50.7%
						Brazil	50.5%	73.2%
						China	72.6%	76.2%



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



Every American >18 immune in **92 days** by Jan 20, 2022
 70.4% of population >18 immunized
 16.1% previously tested positive
86.6% vs 60% adult herd immunity

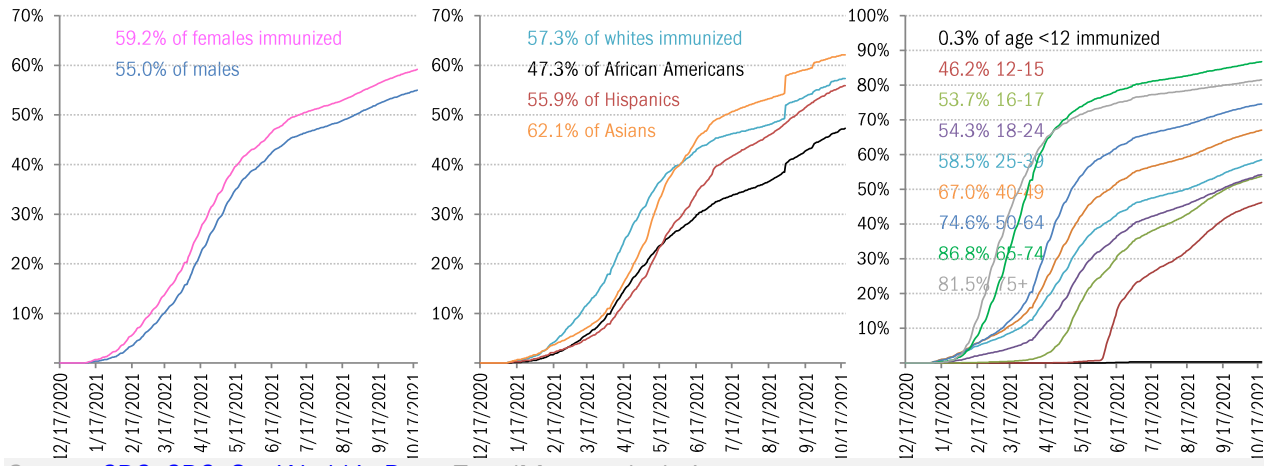
AK
58.6%
52.0%

WI
62.1%
57.7%

ME
75.5%
69.9%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
68.6%	48.3%	56.1%	52.4%	64.5%	69.5%	57.6%	73.2%	78.9%	73.3%	
62.7%	43.0%	49.8%	45.5%	59.3%	54.4%	53.0%	65.7%	70.6%	62.5%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
67.7%	62.3%	50.0%	61.0%	59.0%	53.2%	55.3%	75.7%	74.1%	79.0%	
62.2%	52.2%	43.2%	52.9%	55.0%	49.4%	51.4%	59.8%	65.7%	69.0%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
73.5%	60.4%	66.8%	60.4%	56.1%	62.2%	48.7%	70.1%	72.2%	77.9%	77.0%
60.5%	52.8%	60.8%	55.8%	49.2%	54.2%	40.9%	62.3%	65.5%	70.1%	70.0%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	60.5%	74.0%	61.4%	56.8%	53.9%	62.4%	56.7%	72.9%	68.1%	
	52.4%	64.4%	52.5%	47.0%	47.1%	52.0%	49.2%	61.6%	59.2%	
			OK	LA	MS	AL	GA			
			58.2%	52.9%	51.5%	53.7%	56.1%			
			49.2%	46.9%	45.1%	44.1%	47.2%			
			TX					FL		PR
			60.7%					68.3%		80.8%
			52.6%					59.0%		72.3%

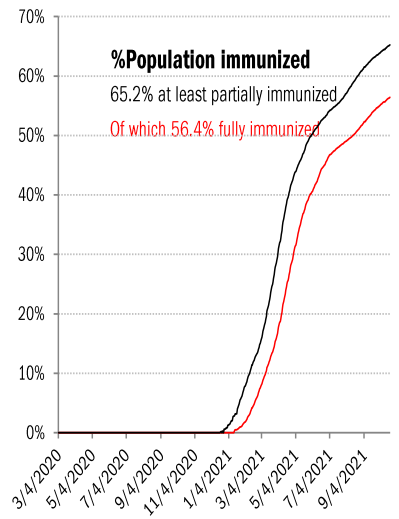
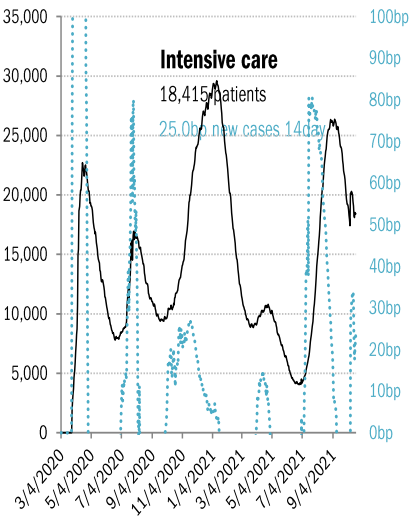
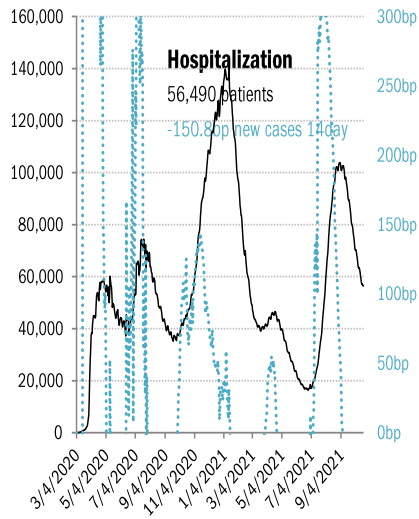
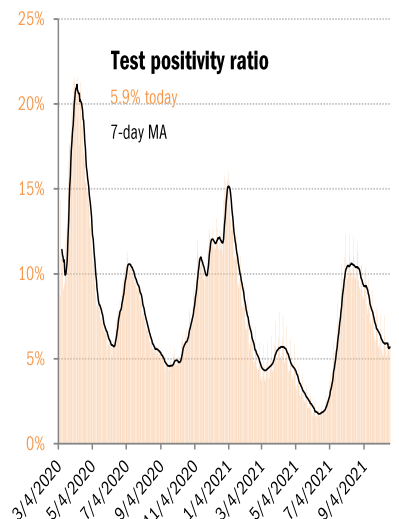
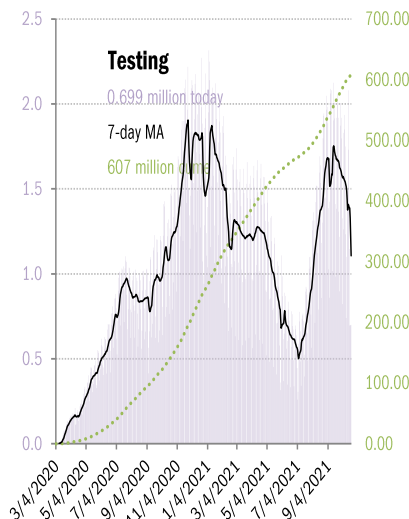
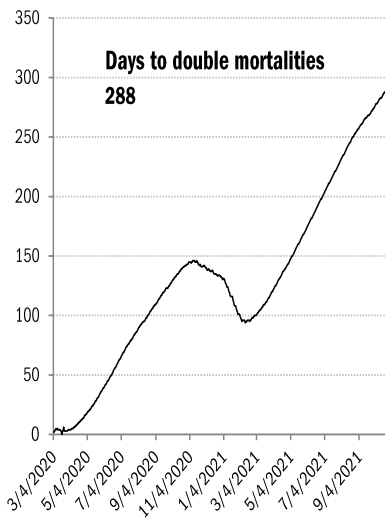
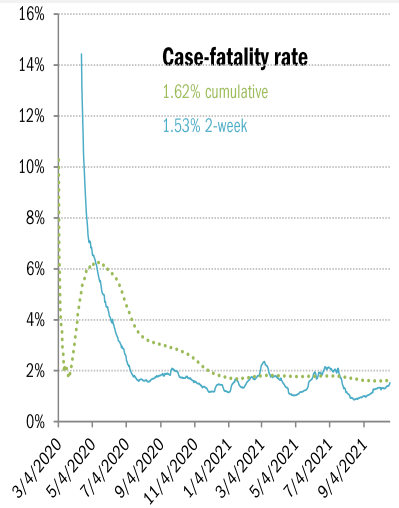
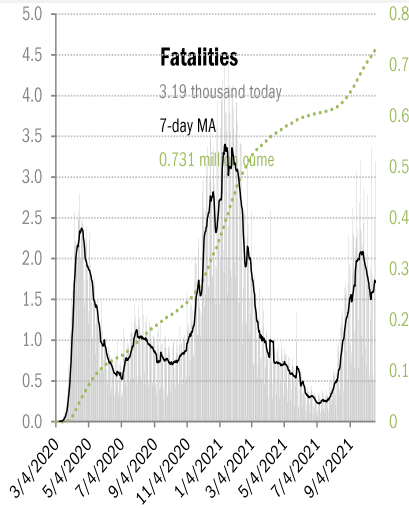
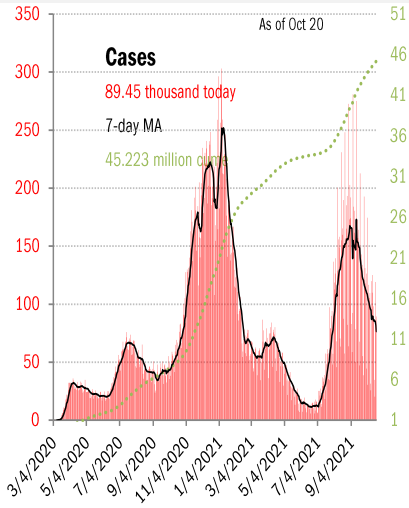
The demographics of US vaccination



Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

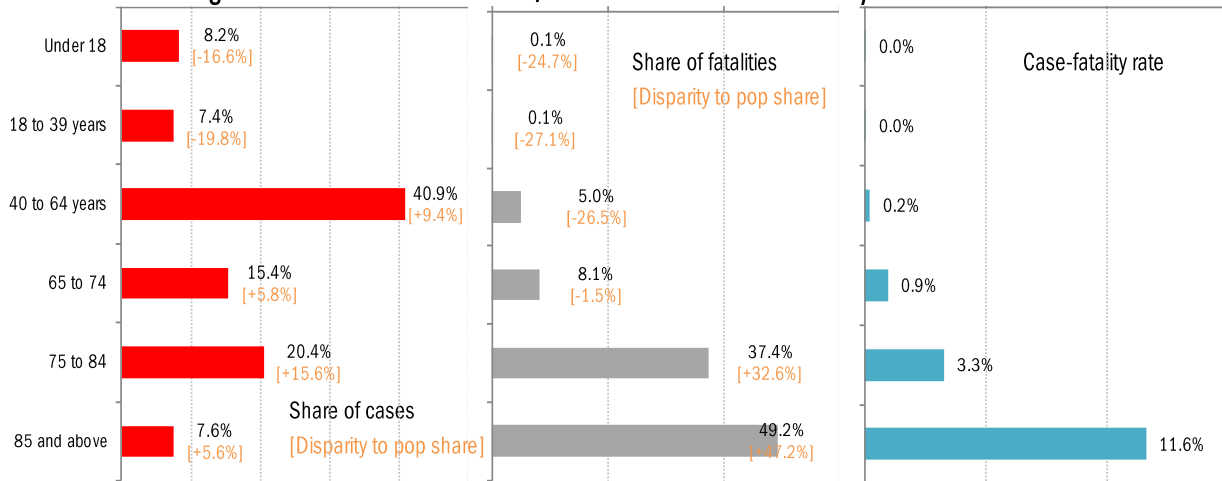
US deep-dive

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

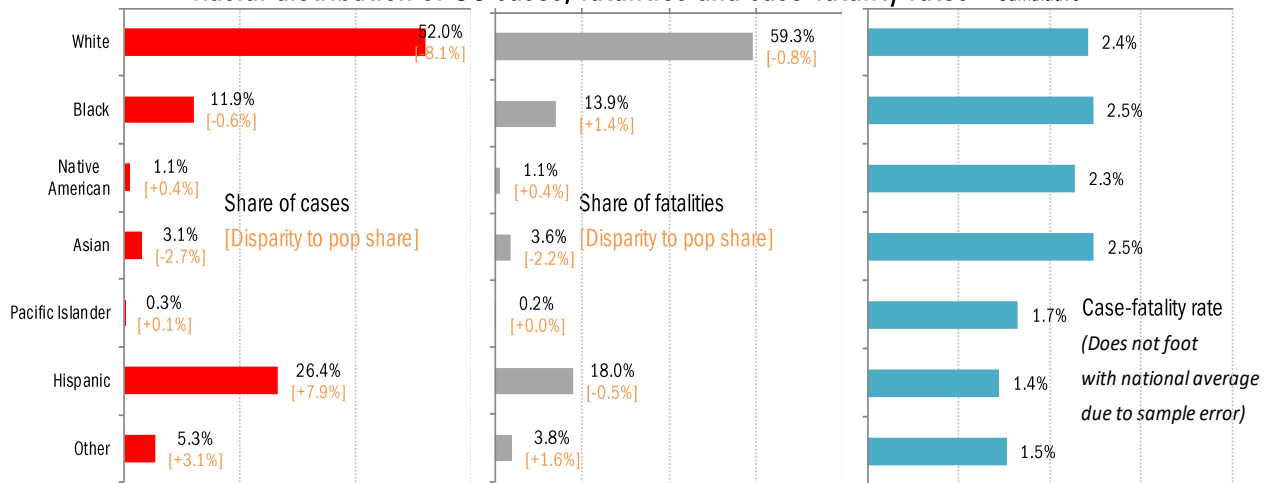


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

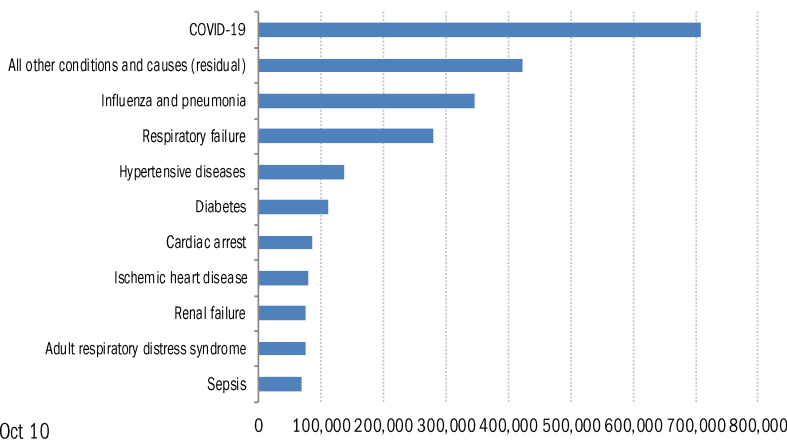


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Oct 10

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.

Recommended reading

[BioNTech/Pfizer boosters show 95.6% efficacy against Covid](#)

Donato Paolo Mancini
Financial Times
October 21, 2021

[Wuhan Lab Announces New Network Which Only Hires Chinese Communist Party Members.](#)

Natalie Winters
National Pulse
October 19, 2021

[Florida COVID Cases Among Lowest in Country Two Months After Record High Surge](#)

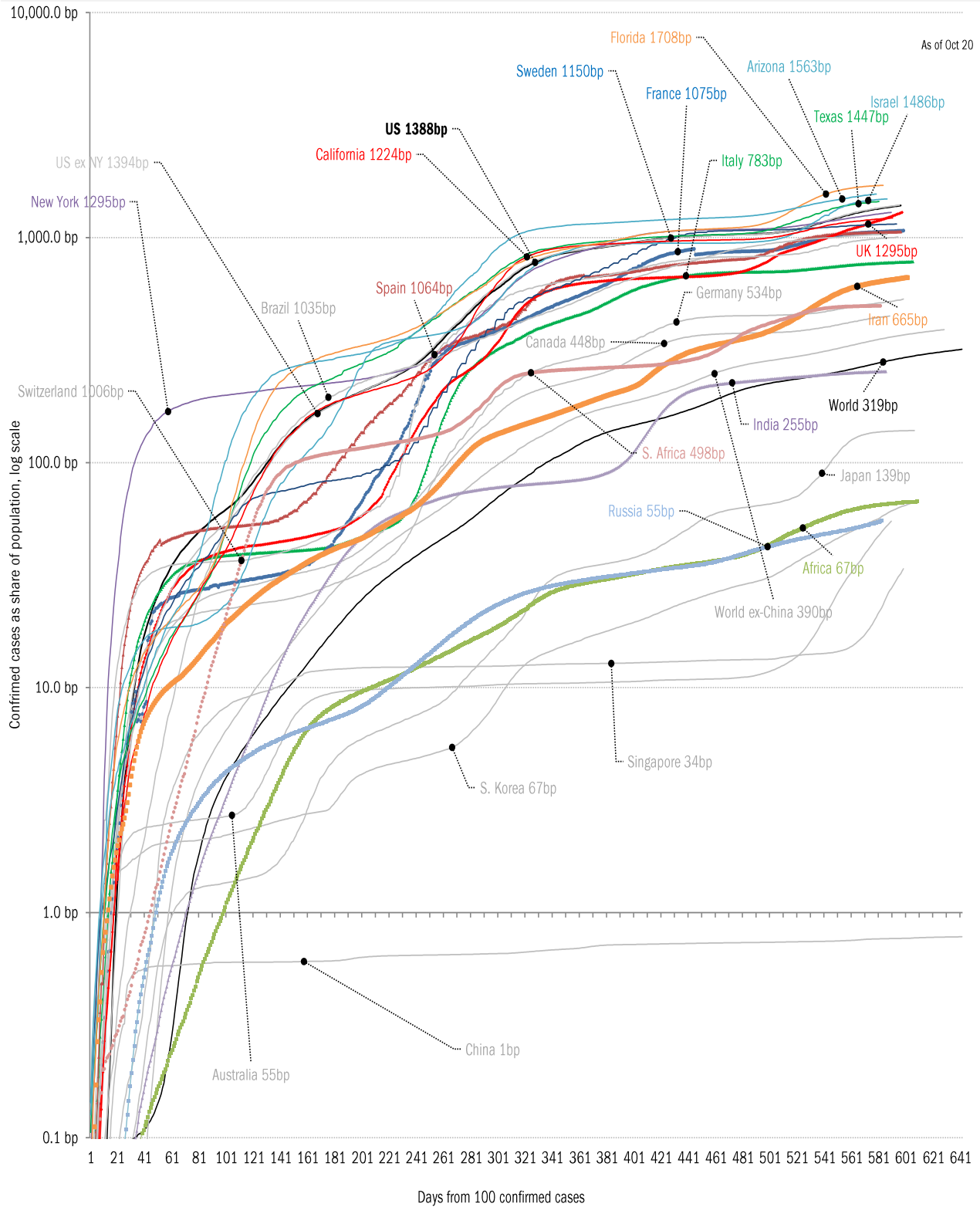
Jenni Fink
Newsweek
October 19, 2021

Meme of the day



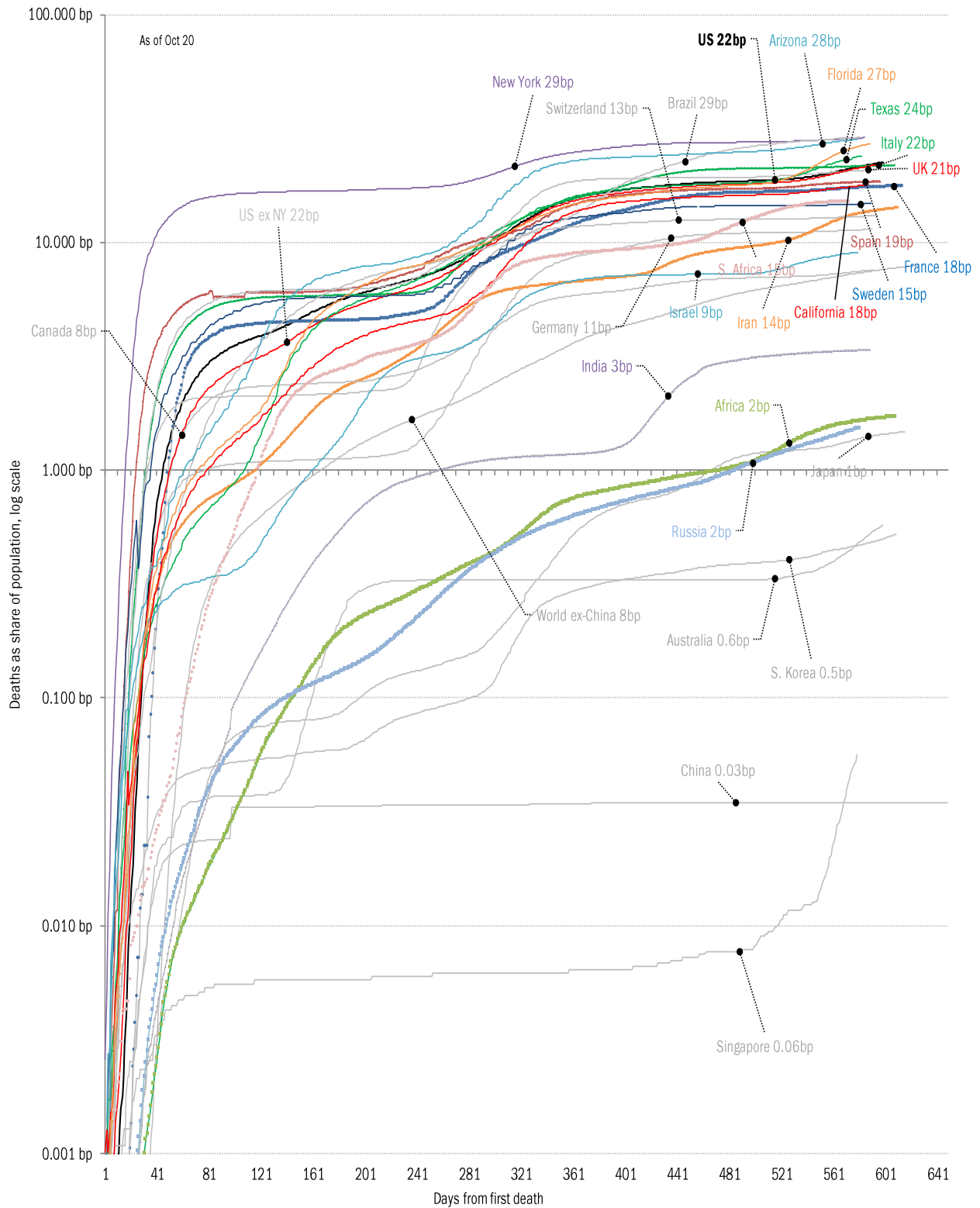
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

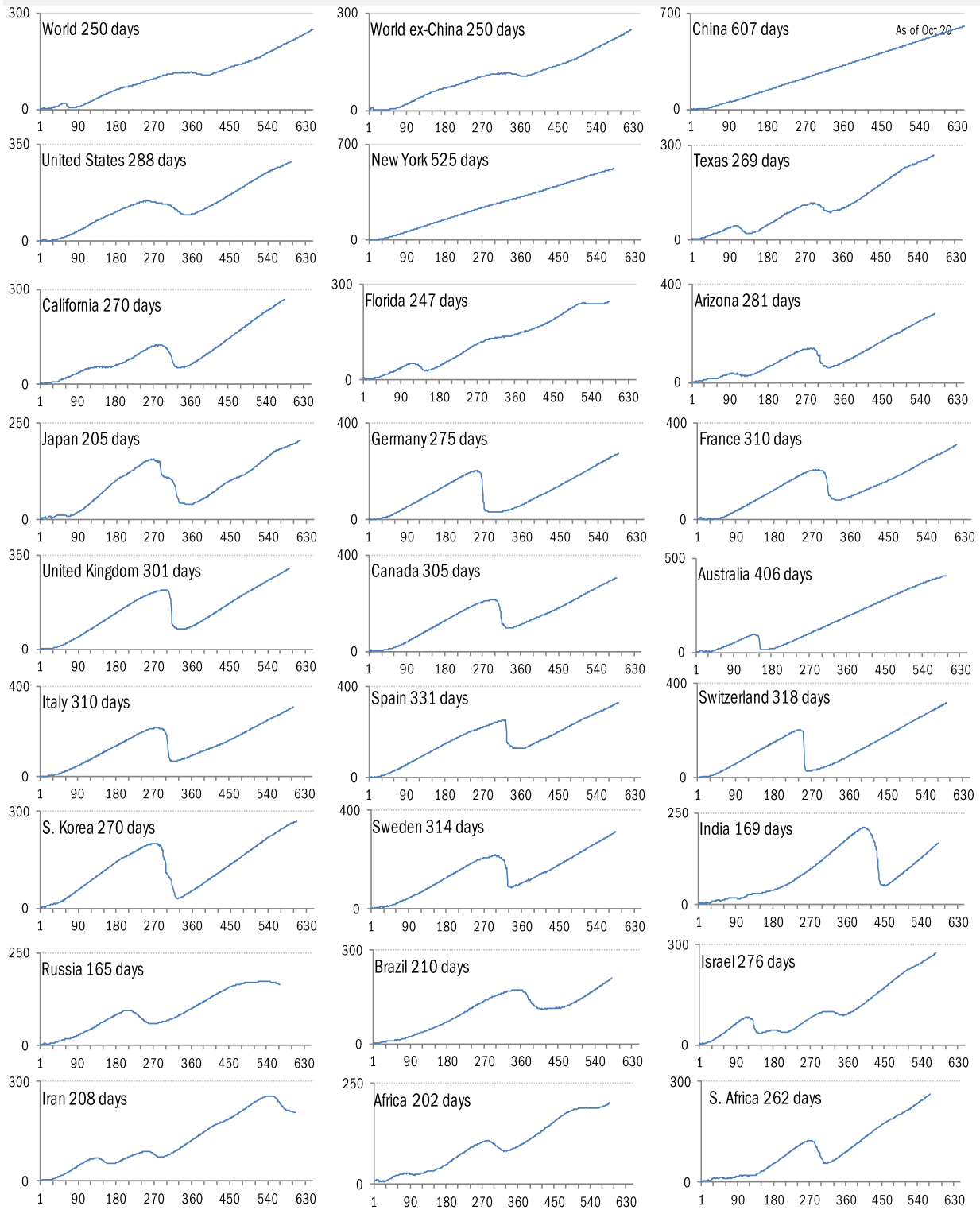


Source: [Johns Hopkins](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-19

Vertical: days to double deaths Horizontal: days from first death

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

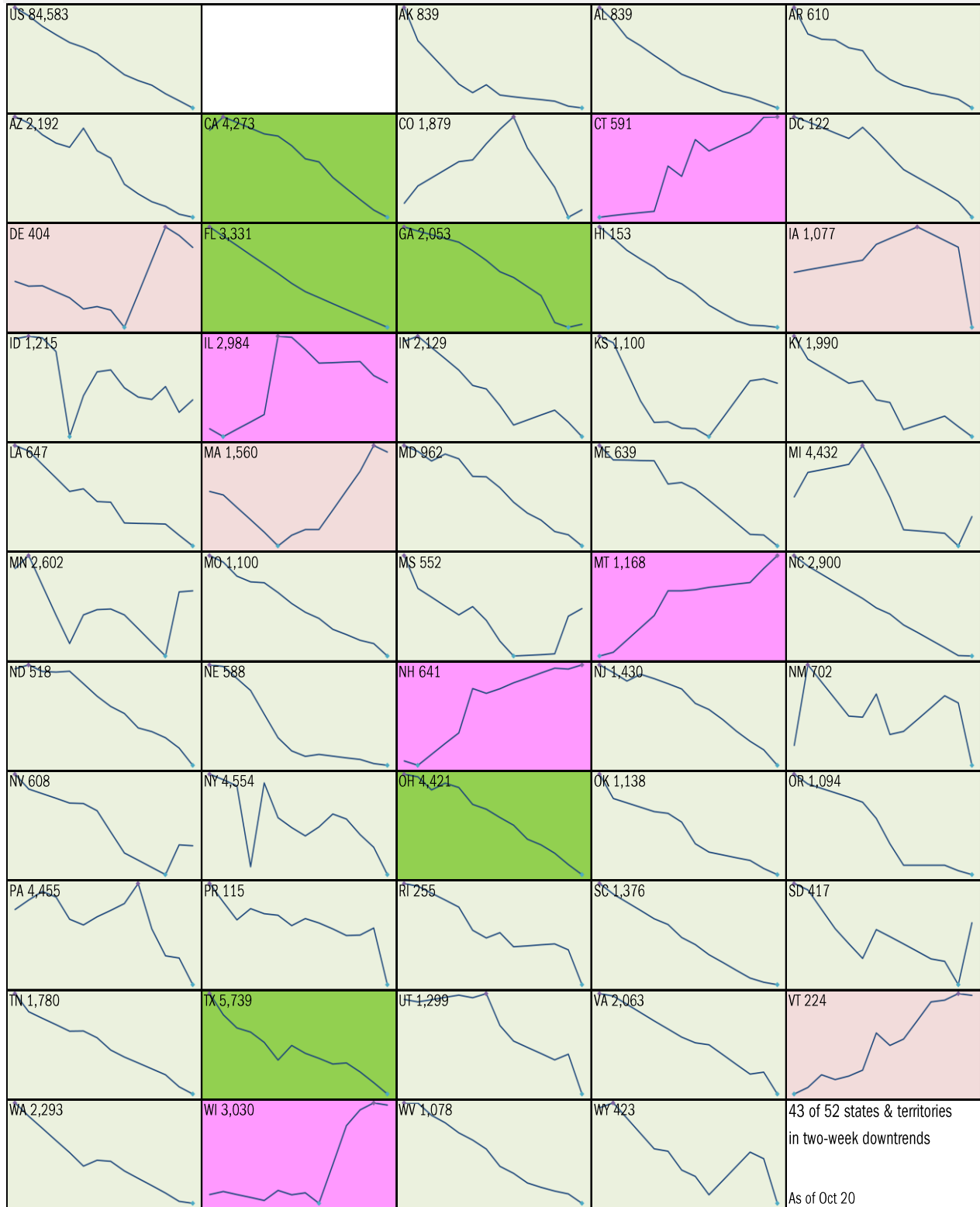


Source: [Johns Hopkins](#), TrendMacro calculations

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

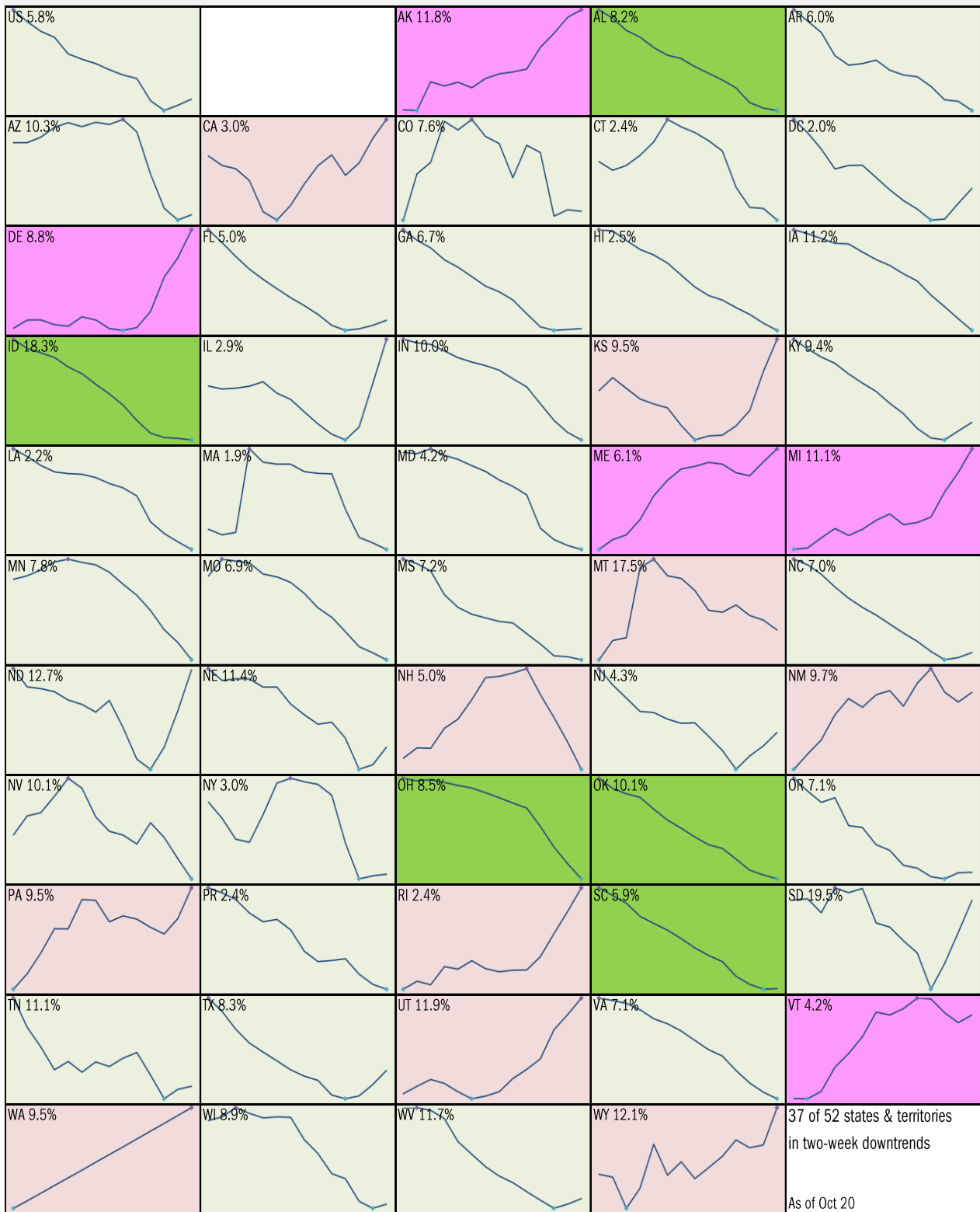


Source: [Johns Hopkins](#), TrendMacro calculations

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

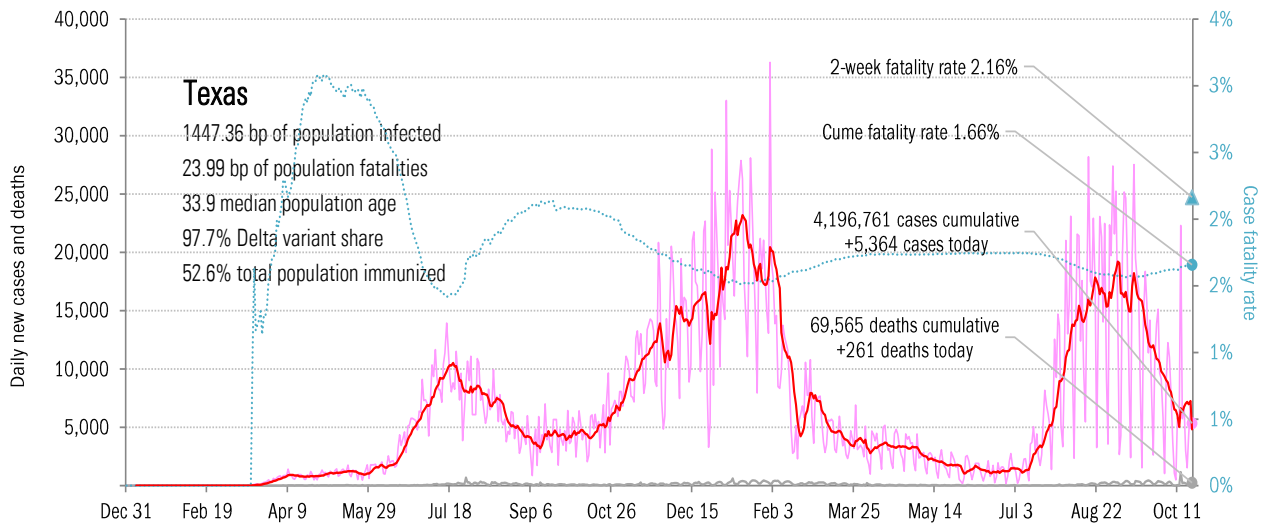
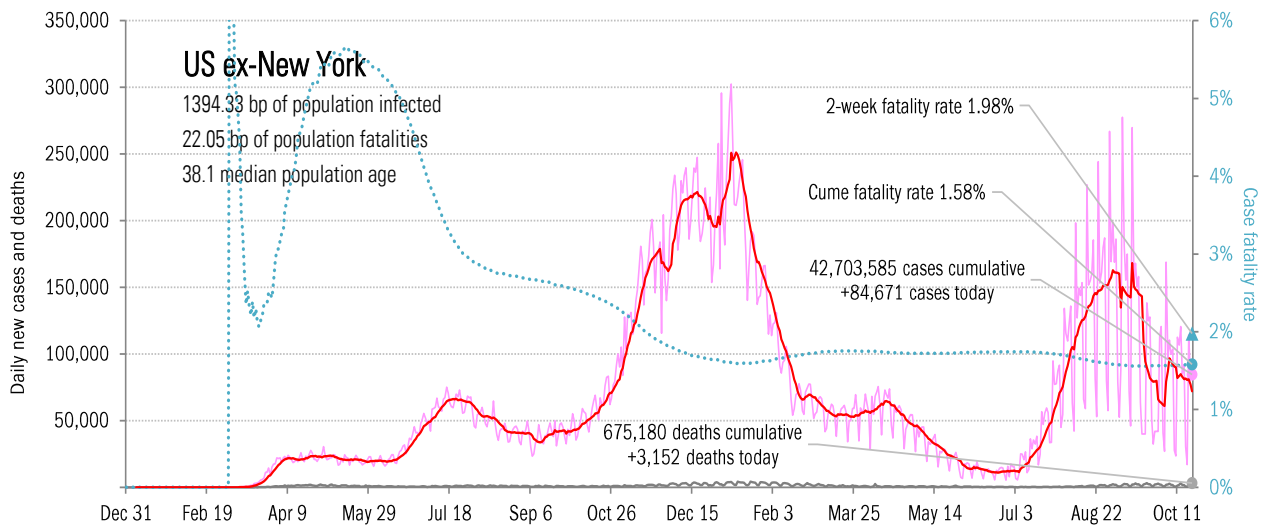
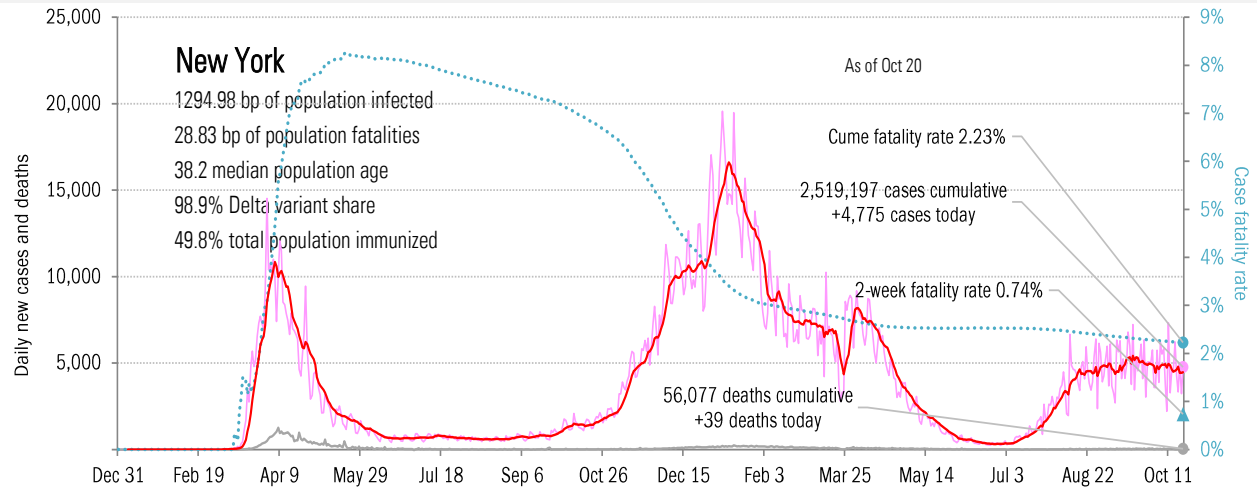
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande

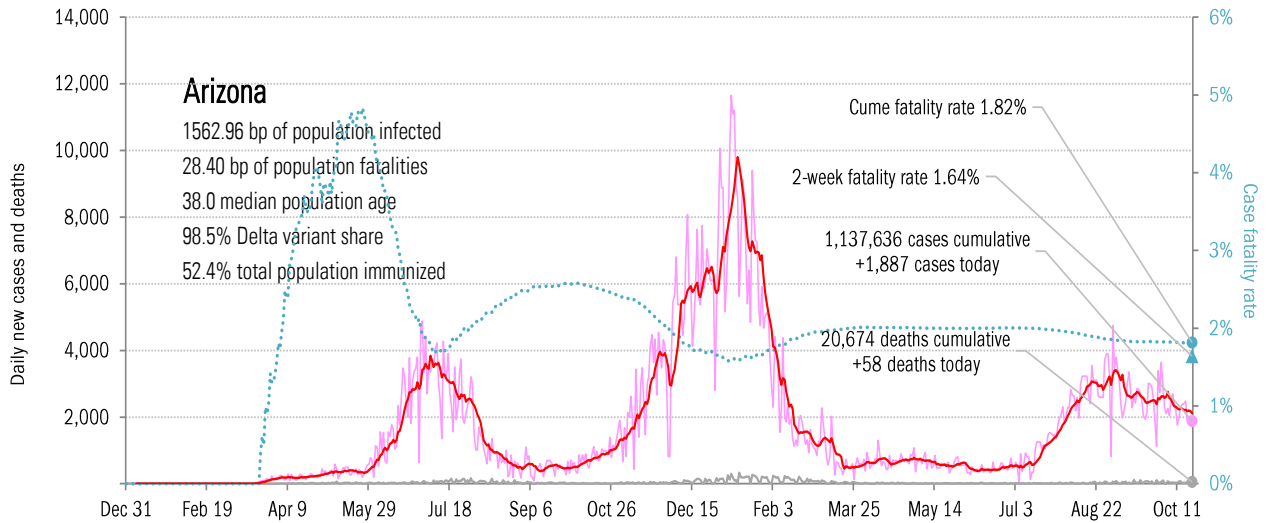
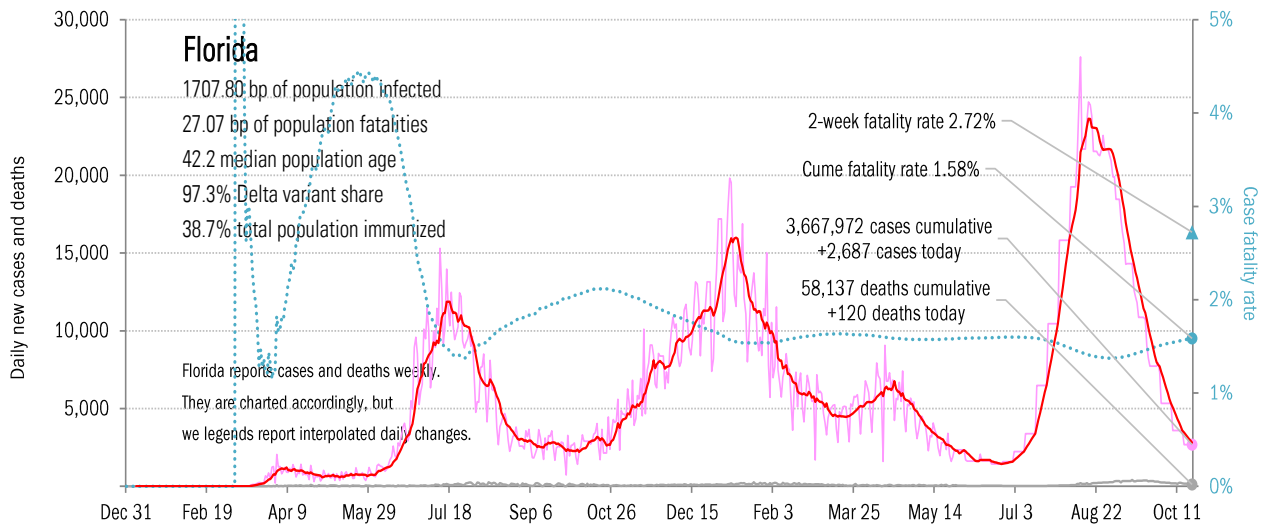
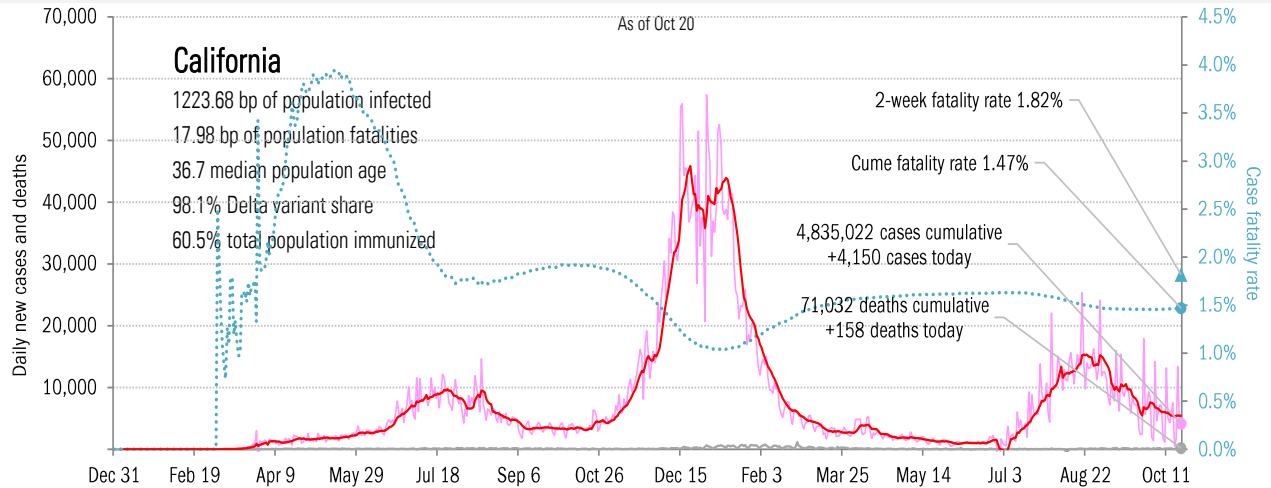
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

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

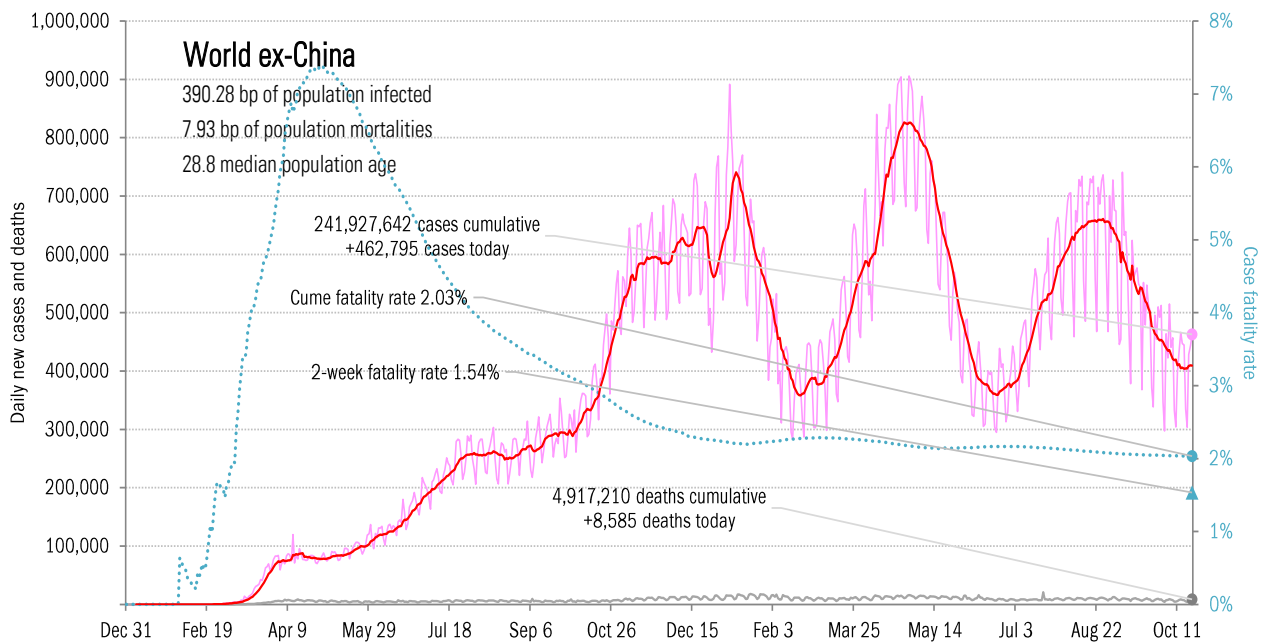
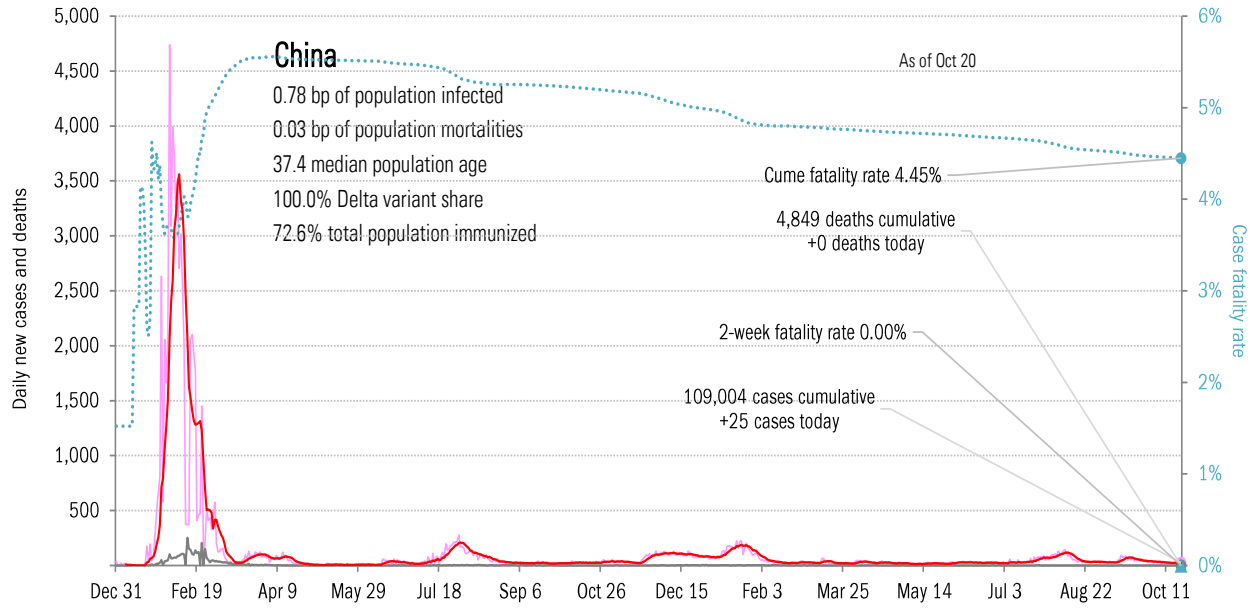
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else

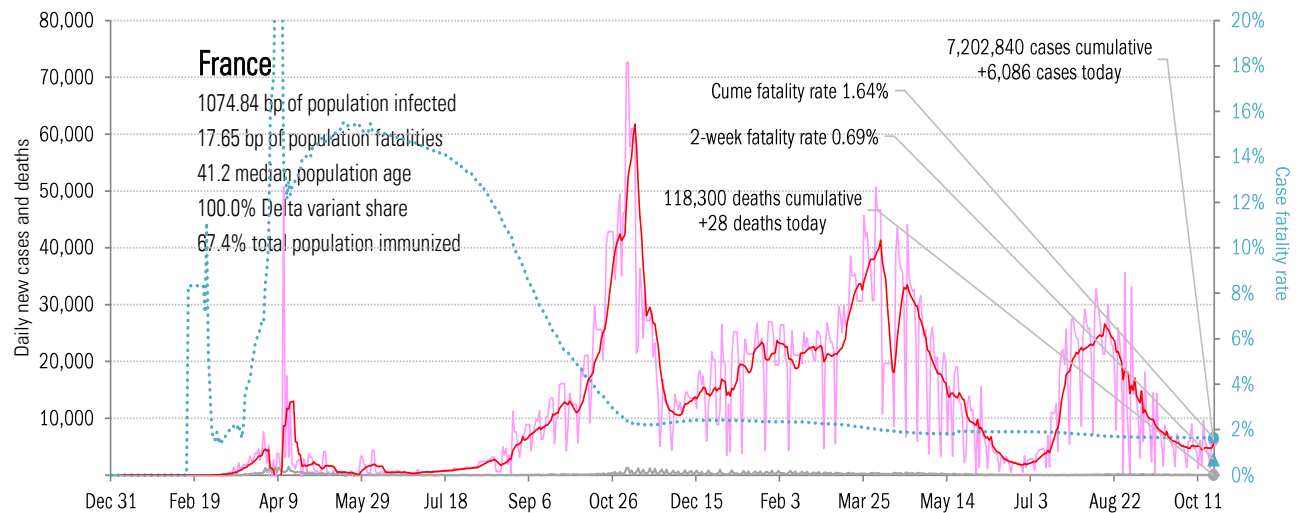
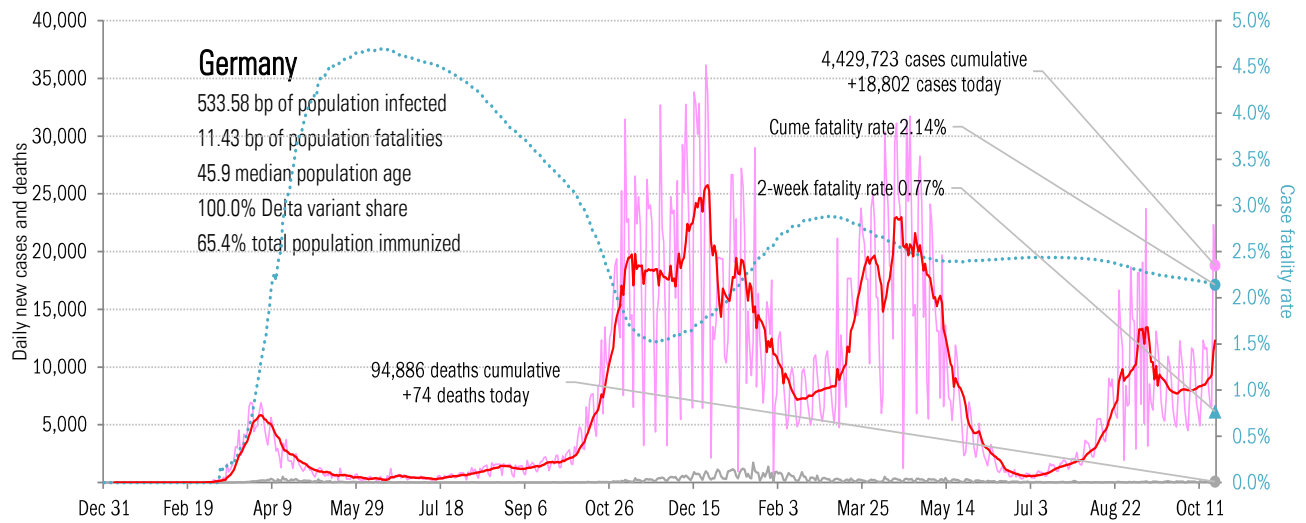
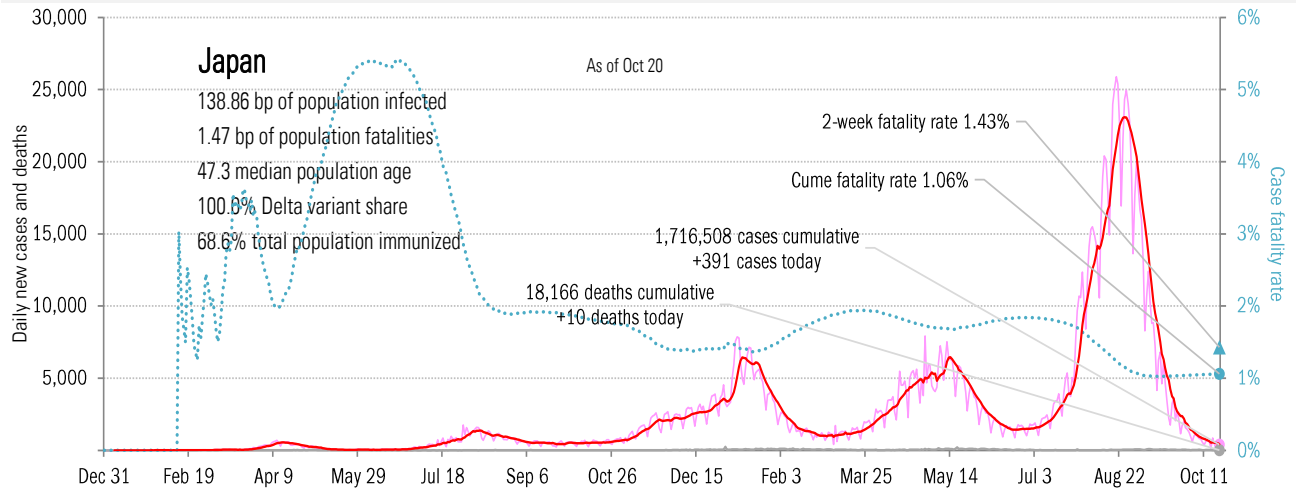
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies

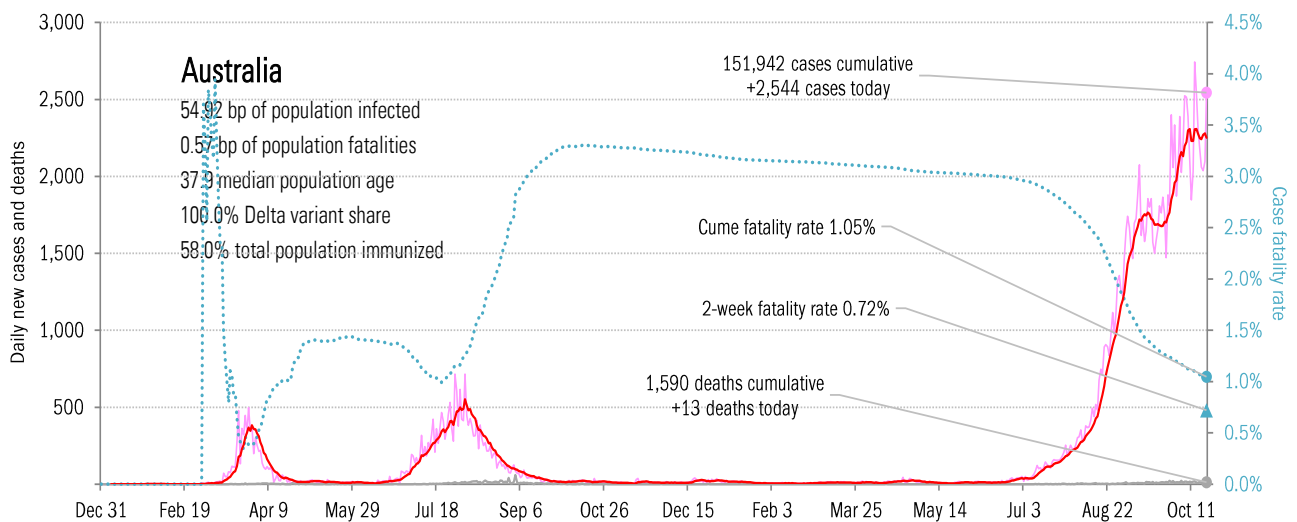
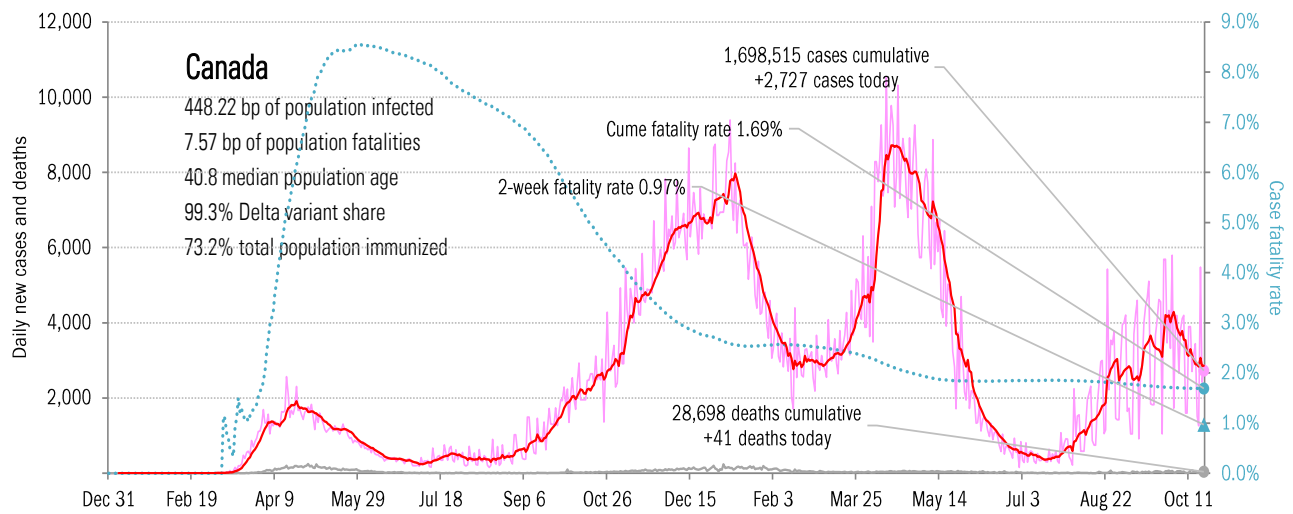
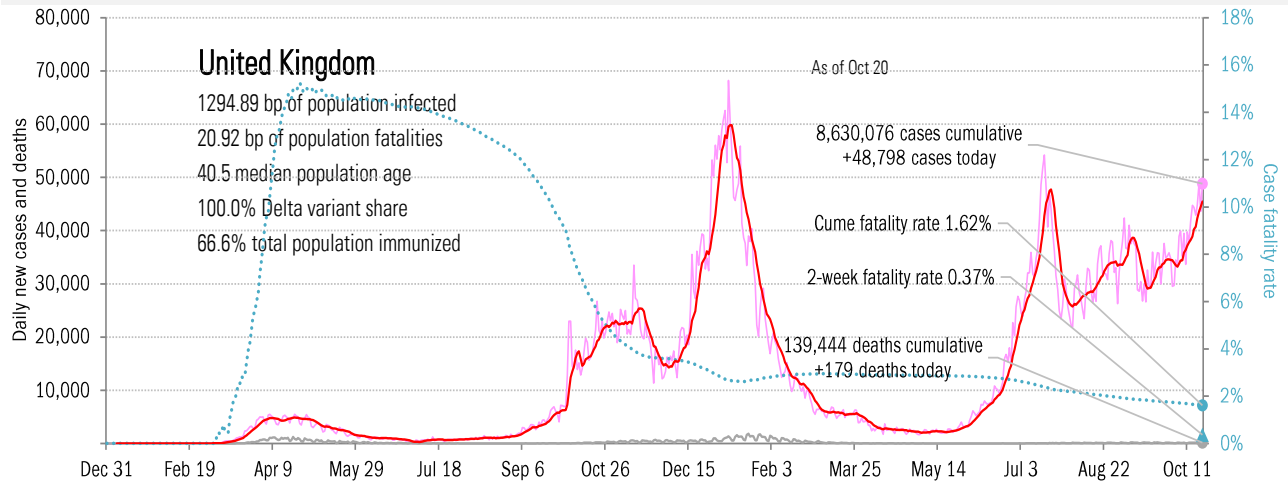
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere

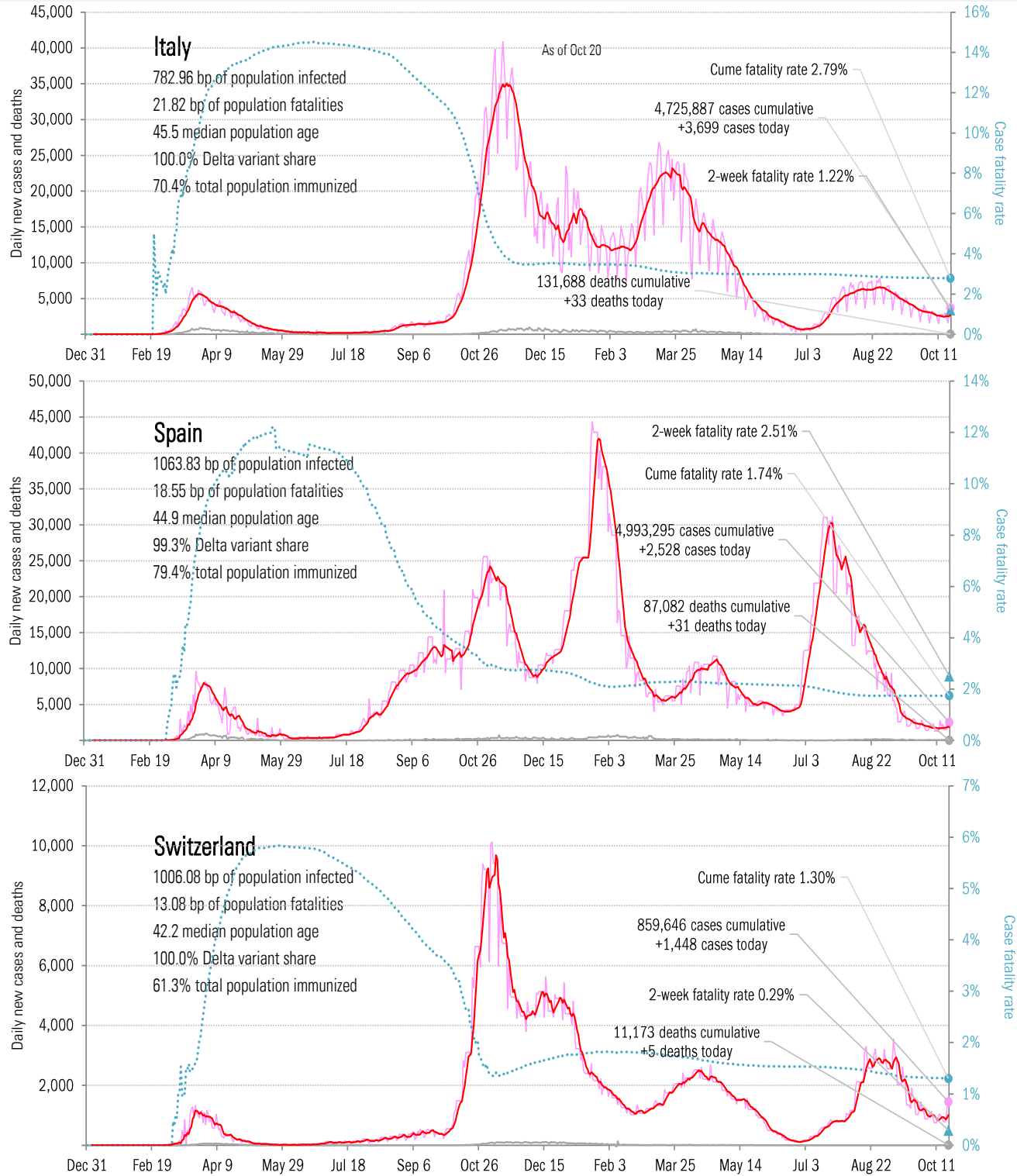
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe

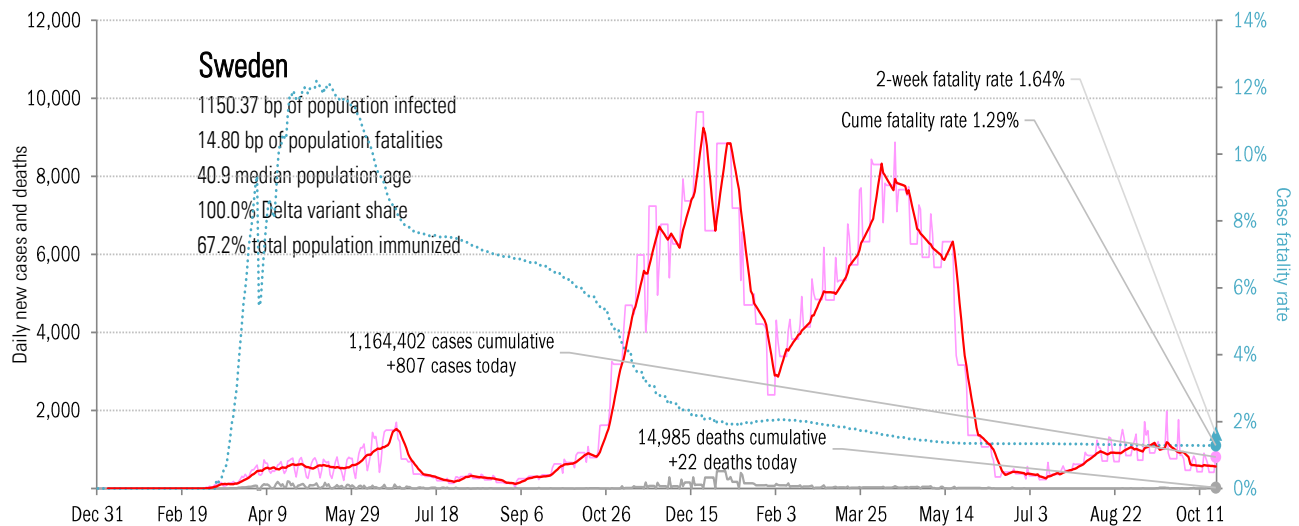
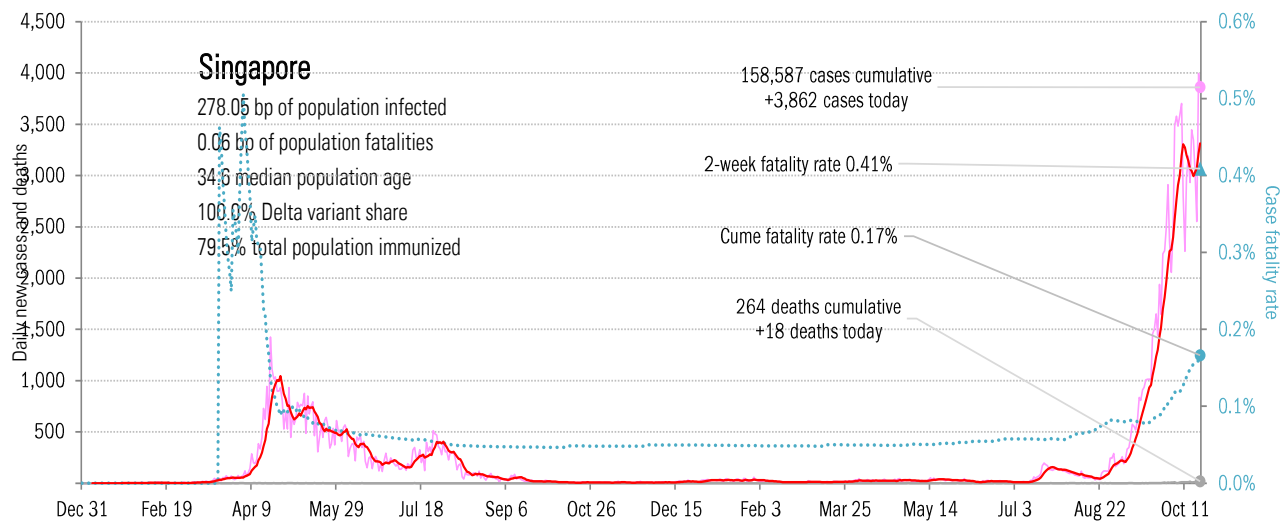
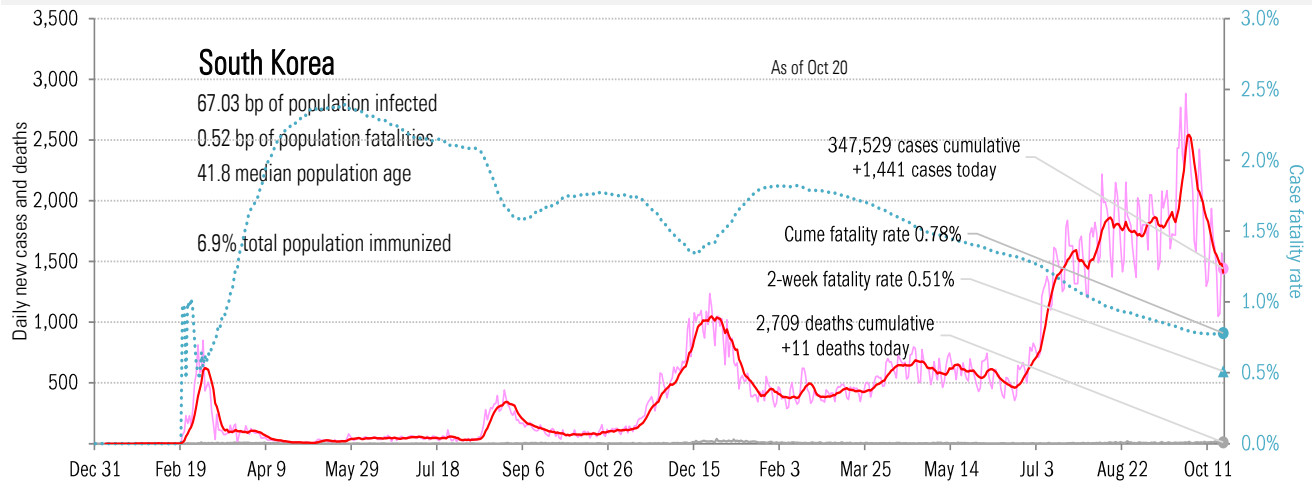
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots

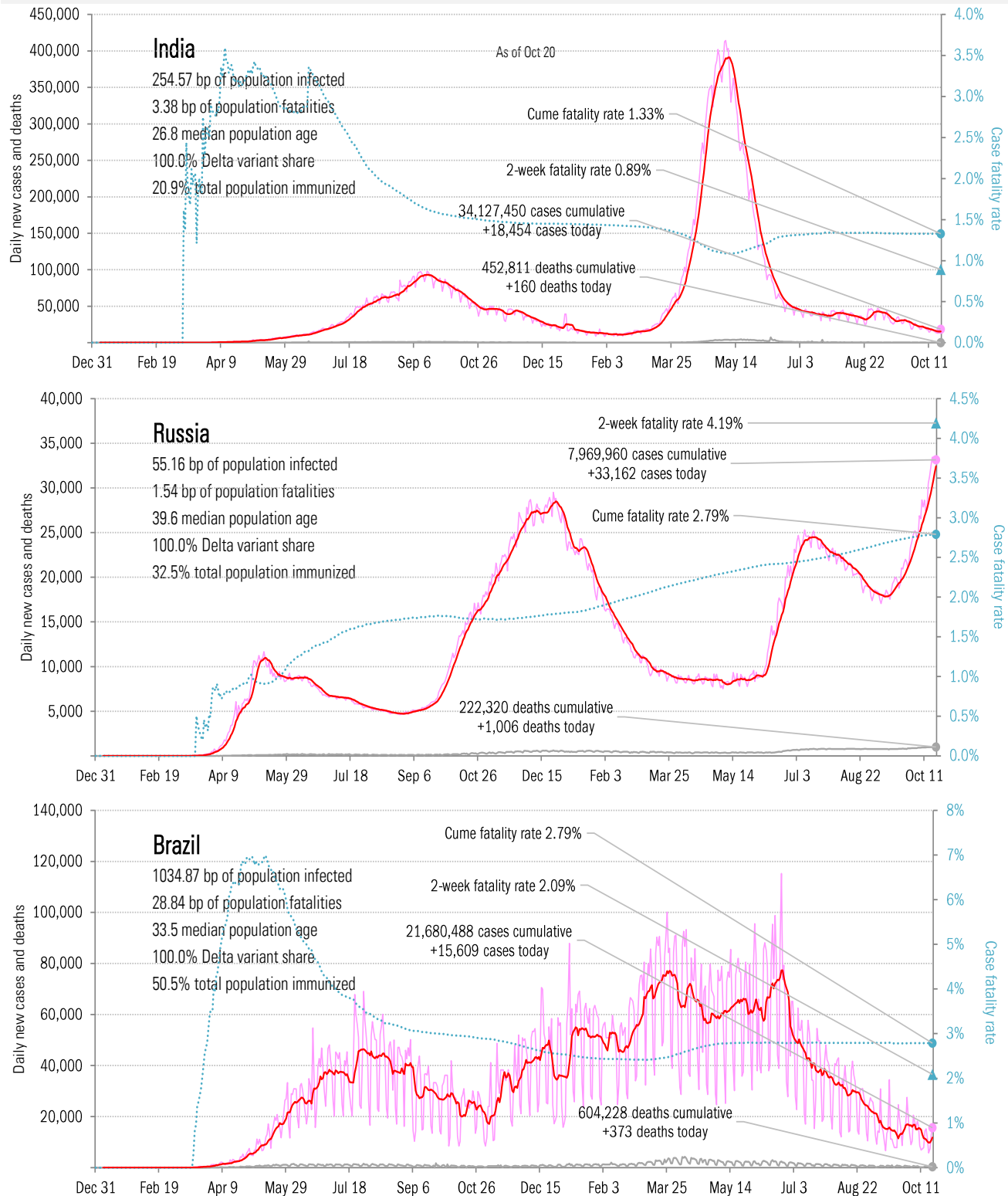
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China

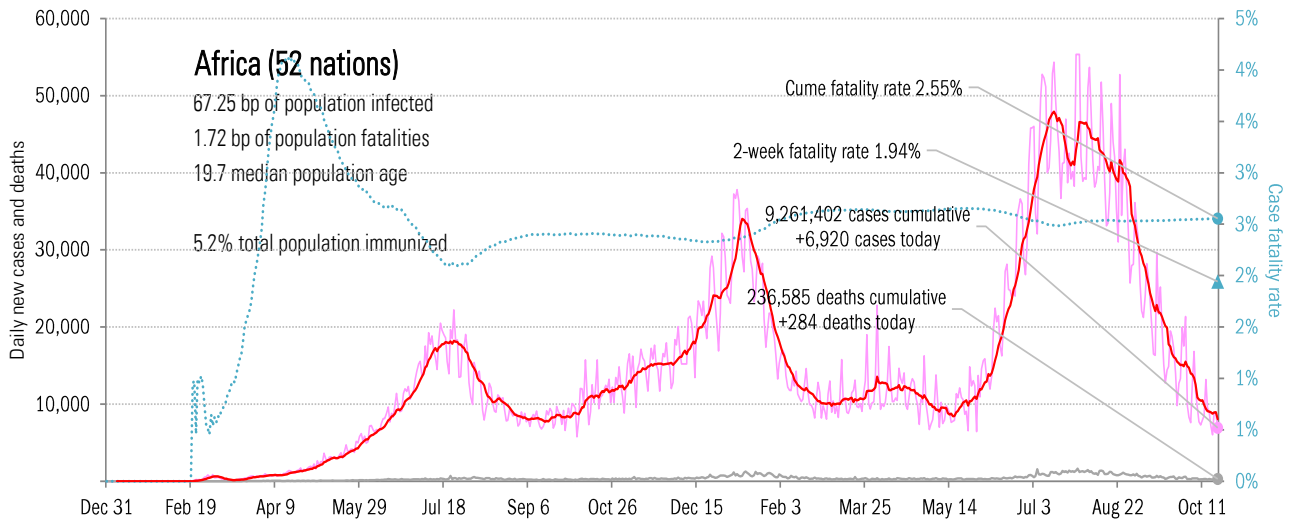
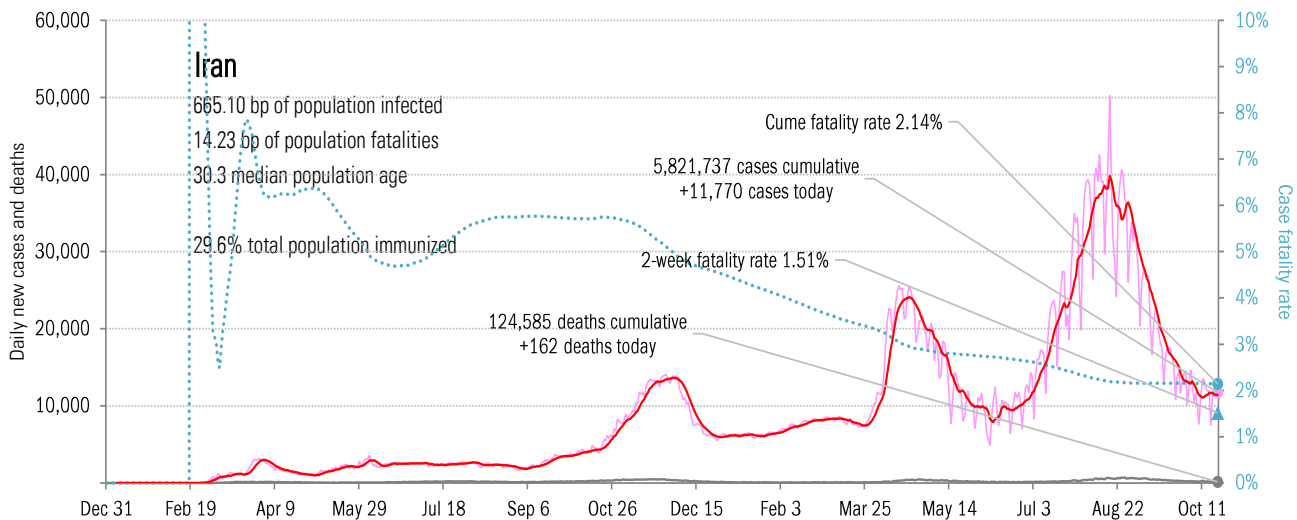
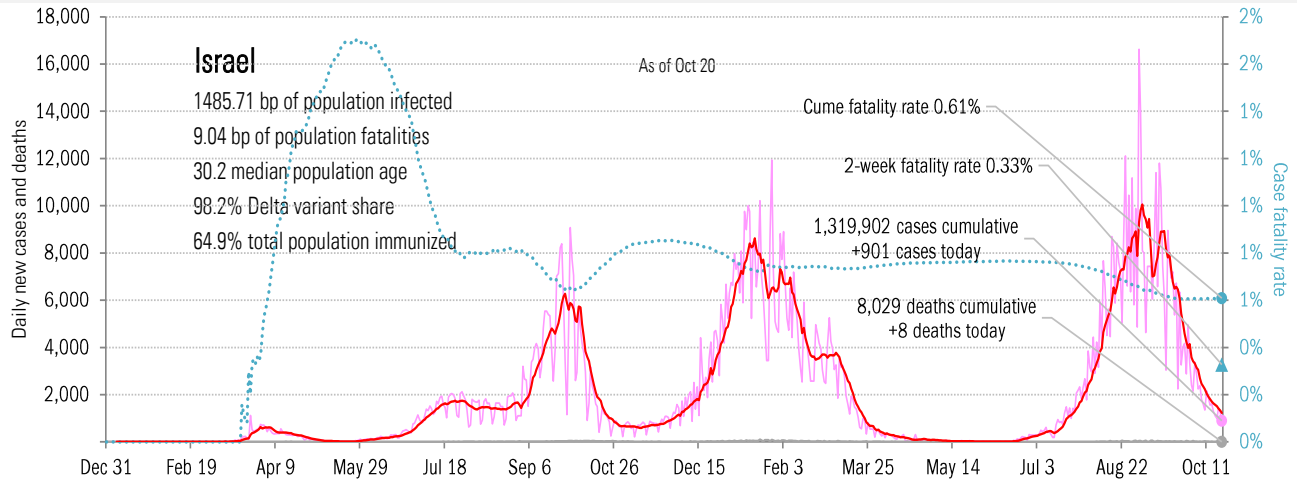
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa

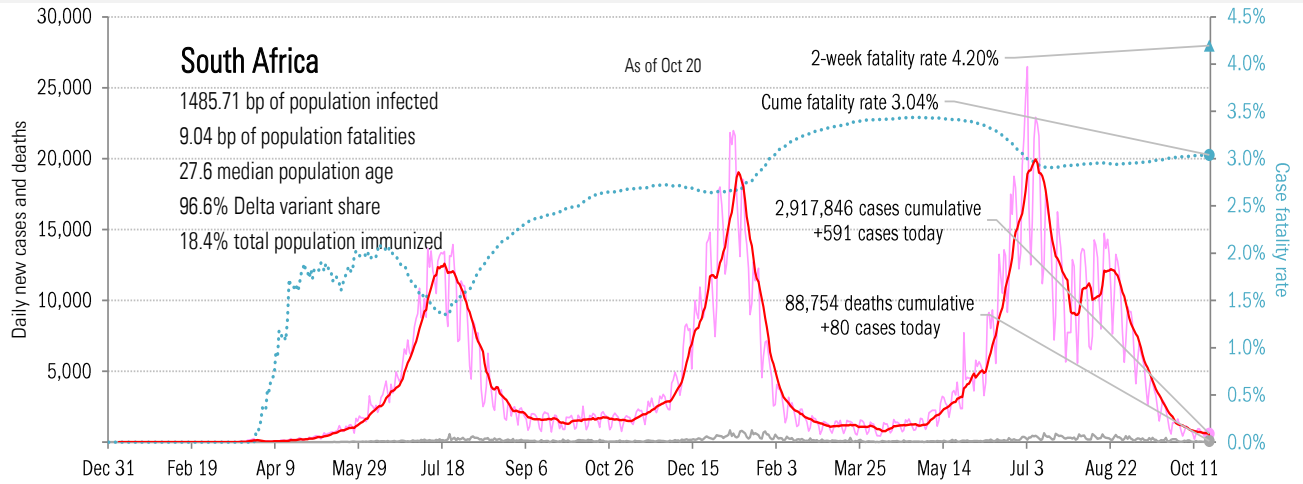
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](#), TrendMacro calculations