

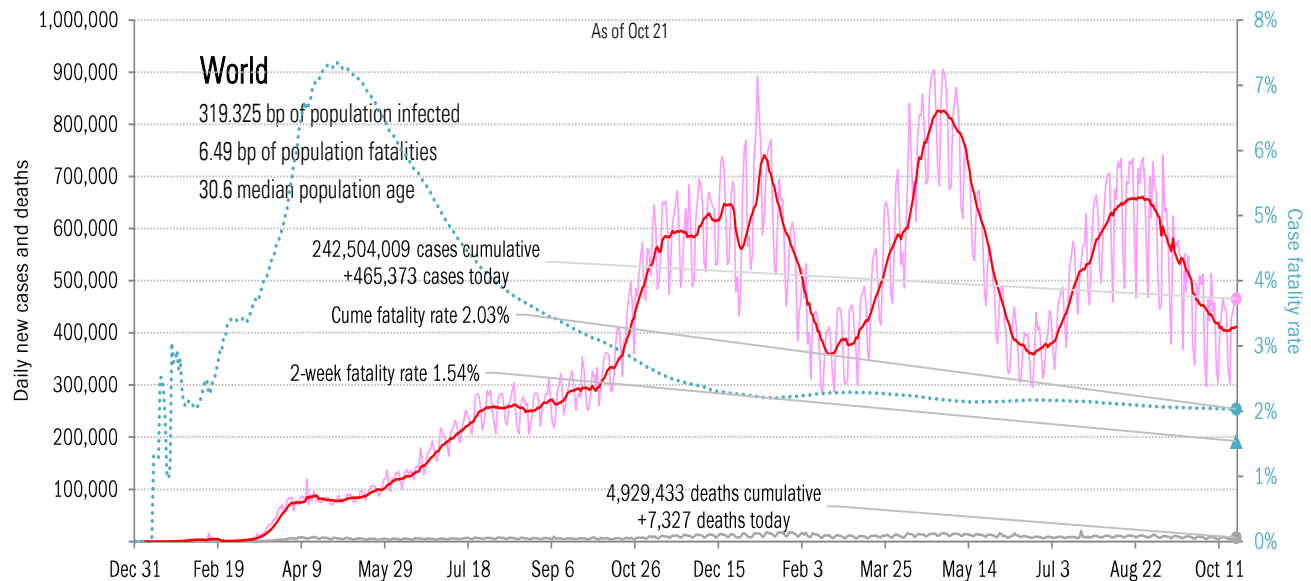
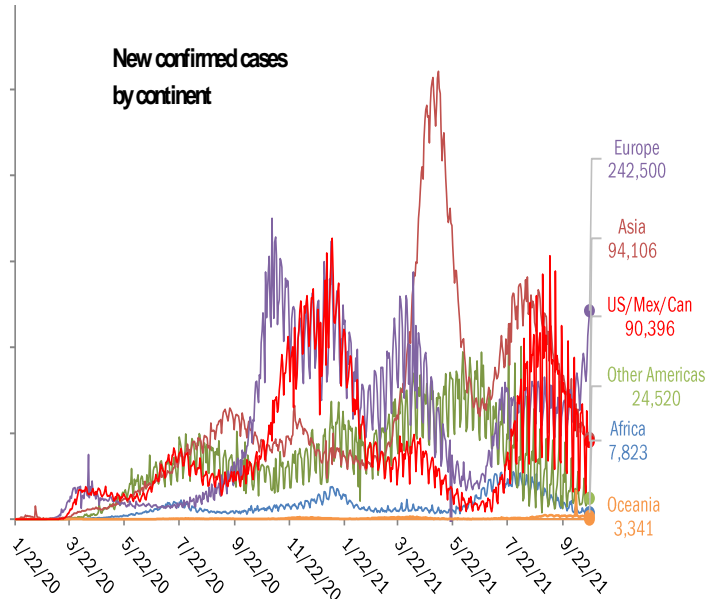
Data Insights: Covid-2019 Monitor

Friday, October 22, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+82,759	United States	+1,566
United Kingdom	+51,719	Russia	+1,011
Russia	+35,416	Ukraine	+571
Turkey	+28,465	Brazil	+451
Ukraine	+23,338	Romania	+448
Germany	+17,508	Mexico	+322
Brazil	+16,853	Philippines	+260
Romania	+16,110	India	+231
India	+15,786	Turkey	+198
Iran	+11,788	Iran	+178
+299,742		+5,236	
World	+465,373	World	+7,327
Top ten	64%	Top ten	71%



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

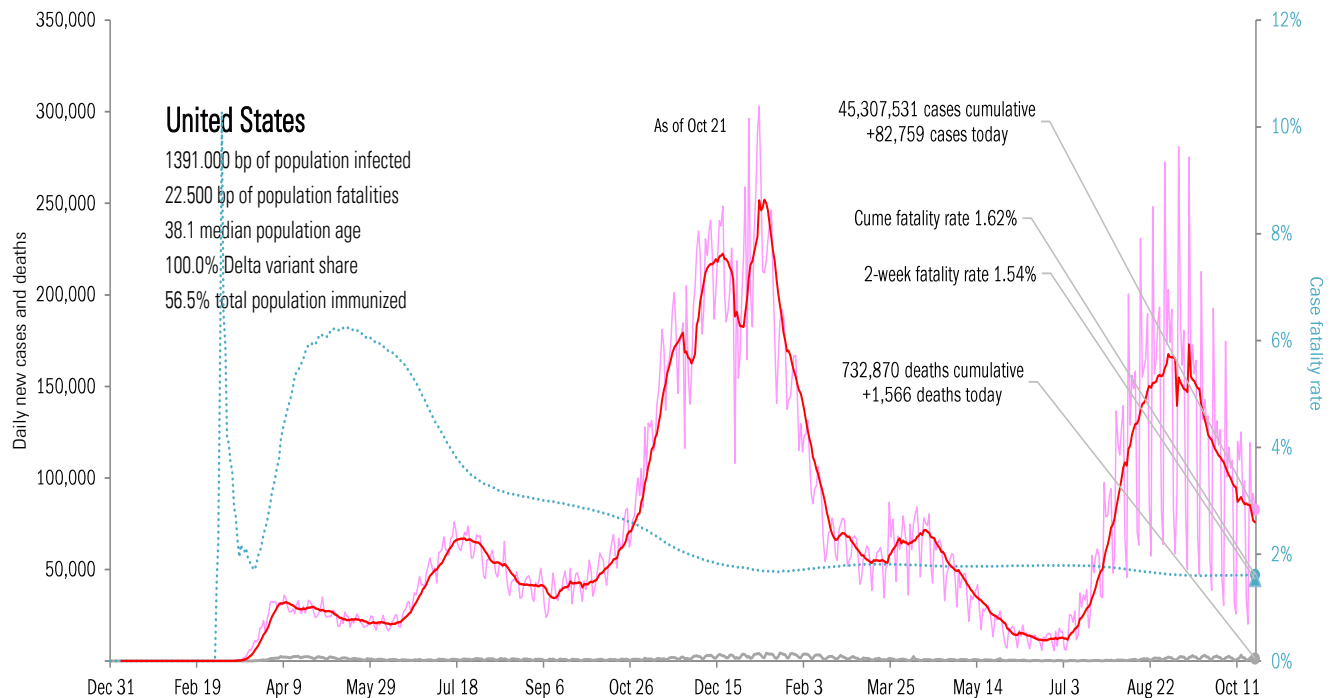
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
CA	+7,450		TX	+230		CO	+36		CA	4,842,472		CA	71,202		TX	370,733		RI	90%	UT	127%
TX	+5,657		CA	+170		NH	+19		TX	4,202,418		TX	69,795		FL	315,964		MA	88%	ID	91%
PA	+4,998		FL	+128		AK	+15		FL	3,670,658		FL	58,265		CA	305,524		PA	86%	AK	91%
NY	+4,363		GA	+110		MS	+9		NY	2,523,560		NY	56,130		NY	161,252		MD	84%	TX	90%
CH	+4,084		PA	+94		AR	+7		IL	1,677,939		PA	30,815		GA	157,774		MN	83%	NM	89%
CO	+3,397		NC	+56		MN	+6		GA	1,623,863		GA	28,344		CH	120,165		NY	82%	RI	88%
WA	+3,154		KY	+53		CR	+6		PA	1,525,813		IL	27,996		PA	113,527		MI	82%	CK	87%
NC	+3,003		NY	+53		NM	+5		CH	1,511,760		NJ	27,805		KY	109,944		GA	82%	NE	86%
FL	+2,687		TN	+50		SD	+5		NC	1,460,801		CH	23,616		IL	103,344		MO	82%	AL	86%
WI	+2,597		AZ	+49		CT	+3		TN	1,270,876		MI	23,173		MI	88,614		CT	82%	GA	86%
+41,390			+993			+111			24,310,160			417,141			1,846,841						
All states	+82,759		+1,566			-525			All states	45,307,531		732,870			3,294,283			All states	70%	67%	
Top ten	50%		63%			-21%			Top ten	54%		57%			56%			Median	77%	80%	

Some states not reporting

Five most improved US states

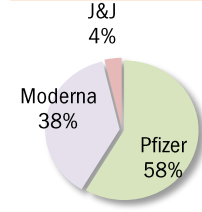
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-8,789	CK	-1,138	NY	-90	FR	+70 bp
IA	-6,907	MI	-156	MO	-36	AK	+10 bp
KS	-1,960	IA	-100	ND	-26	AL	+10 bp
FL	-1,188	WV	-55	WV	-25	AR	+10 bp
SD	-1,141	GA	-48	DE	-24	AZ	+10 bp



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	422,592,094		+0.845 million		US	56.5%	65.3%	
	One dose	% Pop	Immune	% pop	New immune today	UK	66.7%	72.7%
Total population	224,975,111	67%	194,703,973	58%	+0.221 million	France	67.4%	75.4%
Age 12 to 17	14,110,602	59%	11,668,686	49%	+0.022 million	Spain	79.5%	81.2%
Age 18 to 64	155,575,980	76%	134,331,266	66%	+0.169 million	Germany	65.5%	68.5%
Age 65 and over	54,189,428	99%	47,800,417	87%	+0.027 million	Italy	70.5%	76.9%
						Australia	58.7%	72.2%
						Israel	65.0%	70.7%
						Canada	73.3%	77.9%
						Japan	69.0%	76.5%
						Africa	5.3%	8.2%
						India	21.1%	50.9%
						Brazil	50.9%	73.3%
						China	72.6%	76.2%



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



Every American >18 immune in **84 days** by Jan 13, 2022
 70.5% of population >18 immunized
 16.1% previously tested positive
86.7% vs 60% adult herd immunity

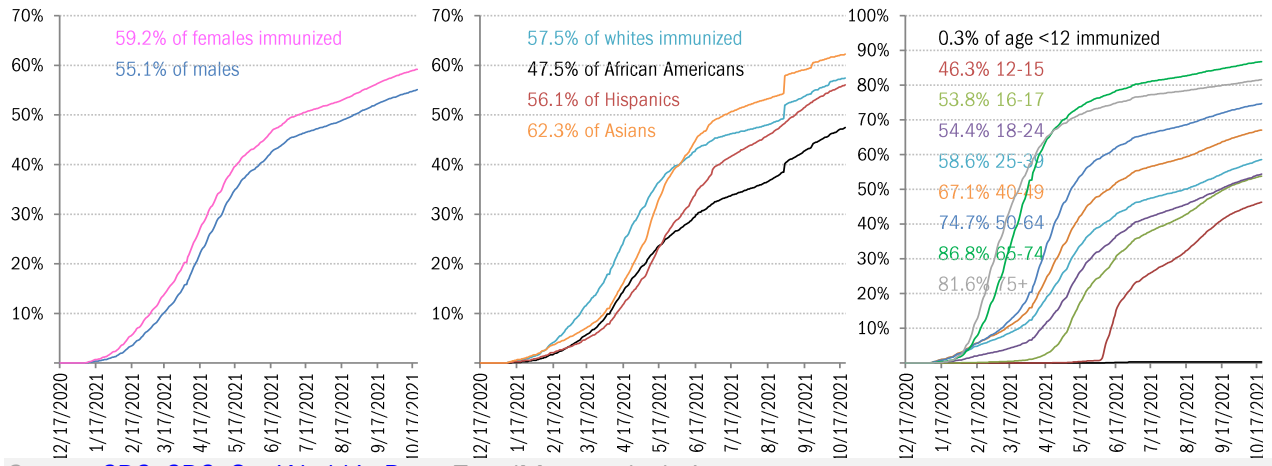
AK
58.7%
52.1%

WI
62.1%
57.8%

ME
75.6%
69.9%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
68.7%	48.4%	56.2%	52.5%	64.6%	69.5%	57.6%	73.3%	78.9%	73.4%	
62.8%	43.1%	49.9%	45.6%	59.3%	54.4%	53.0%	65.8%	70.7%	62.5%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
67.8%	62.4%	50.1%	60.8%	59.1%	53.2%	55.3%	75.9%	74.1%	79.1%	
62.3%	52.2%	43.3%	52.0%	55.1%	49.4%	51.4%	59.8%	65.8%	69.1%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
73.6%	60.5%	66.9%	60.4%	56.2%	62.3%	48.7%	70.2%	72.2%	78.0%	77.1%
60.5%	52.8%	60.9%	55.8%	49.2%	54.2%	40.9%	62.3%	65.6%	70.1%	70.1%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	60.6%	74.1%	61.5%	56.9%	54.0%	62.5%	56.8%	73.0%	68.2%	
	52.5%	64.5%	52.6%	47.1%	47.1%	52.0%	49.3%	61.7%	59.3%	
			OK	LA	MS	AL	GA			
			58.3%	53.0%	51.5%	53.8%	56.1%			
			49.2%	46.9%	45.1%	44.2%	47.2%			
			TX					FL		PR
			60.8%					68.3%		81.6%
			52.7%					59.0%		73.0%

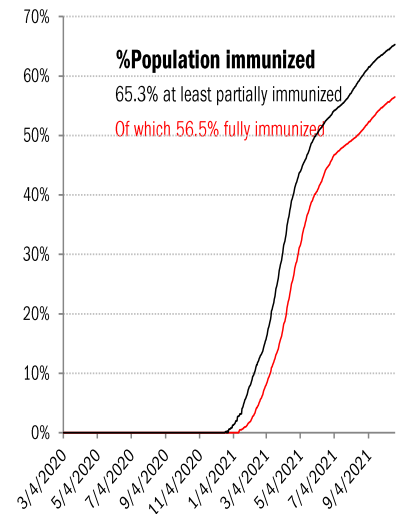
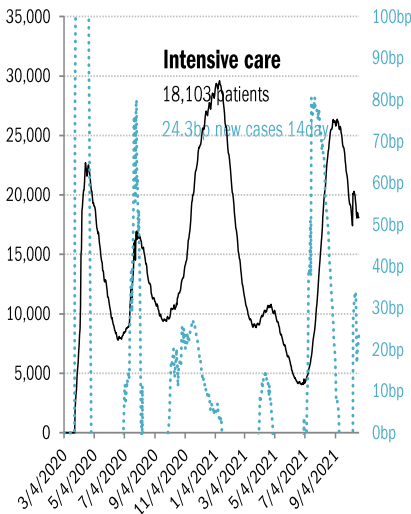
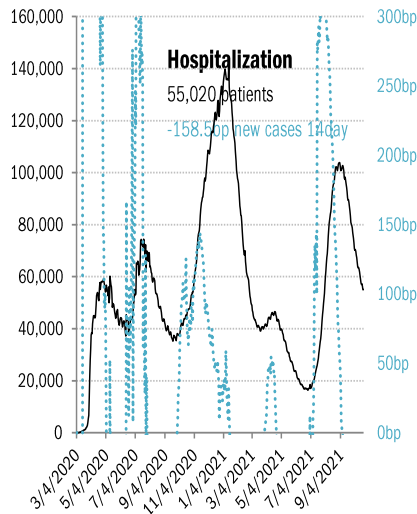
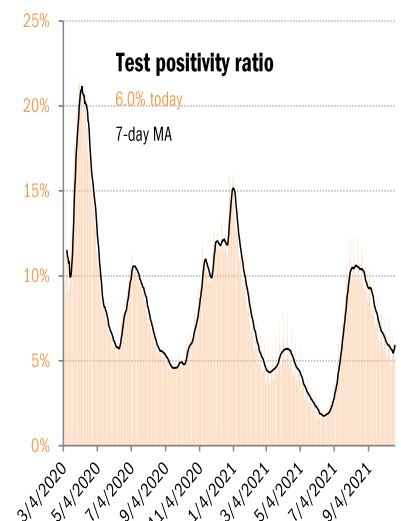
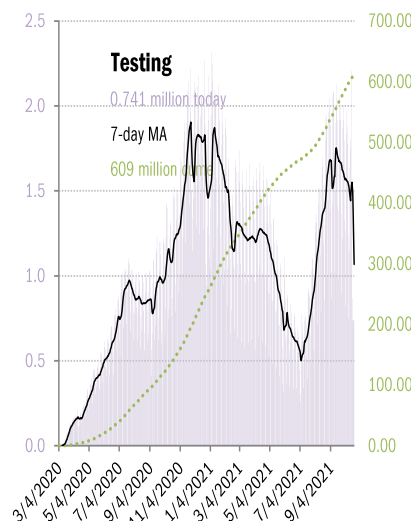
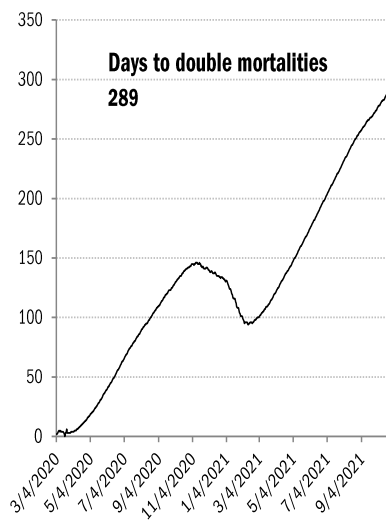
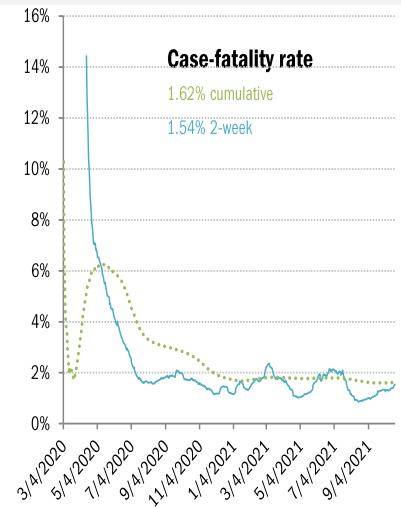
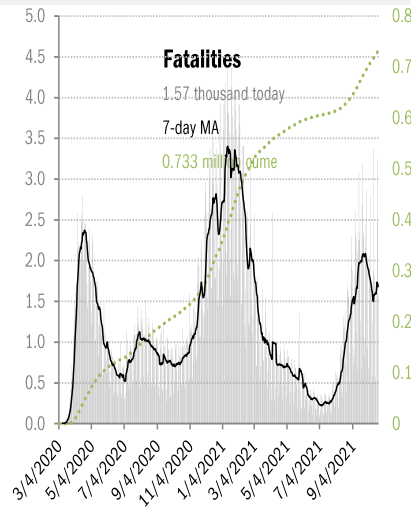
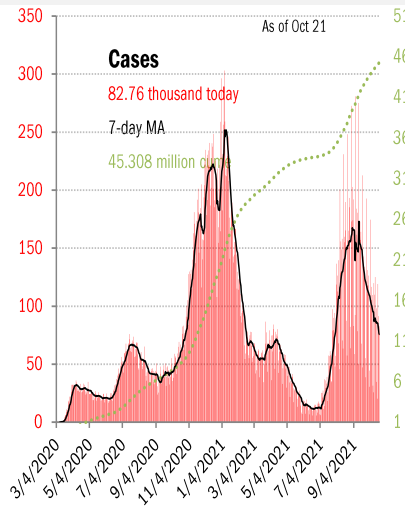
The demographics of US vaccination



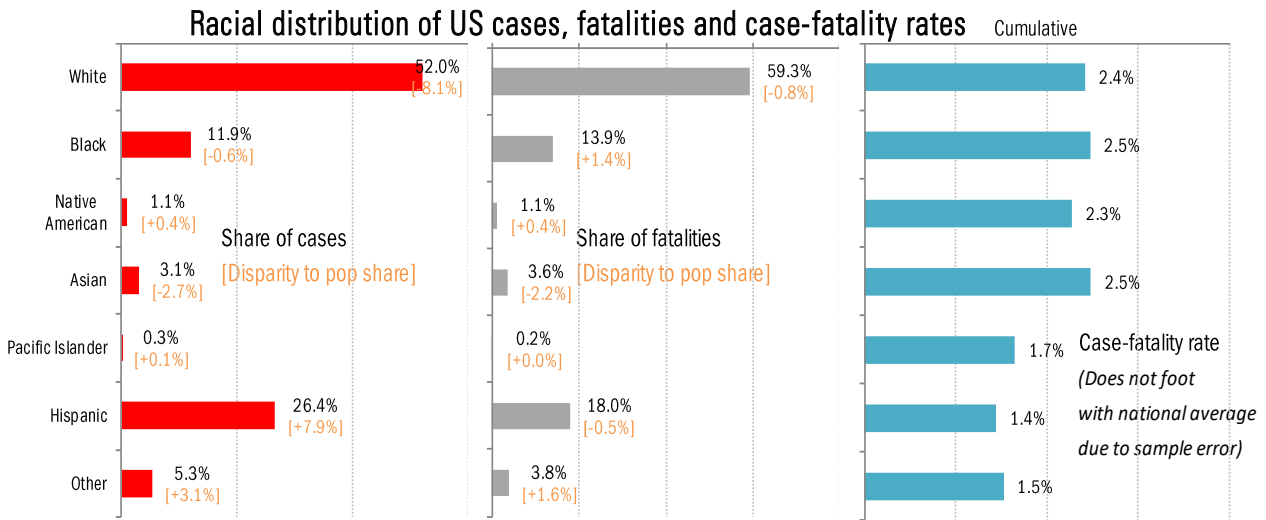
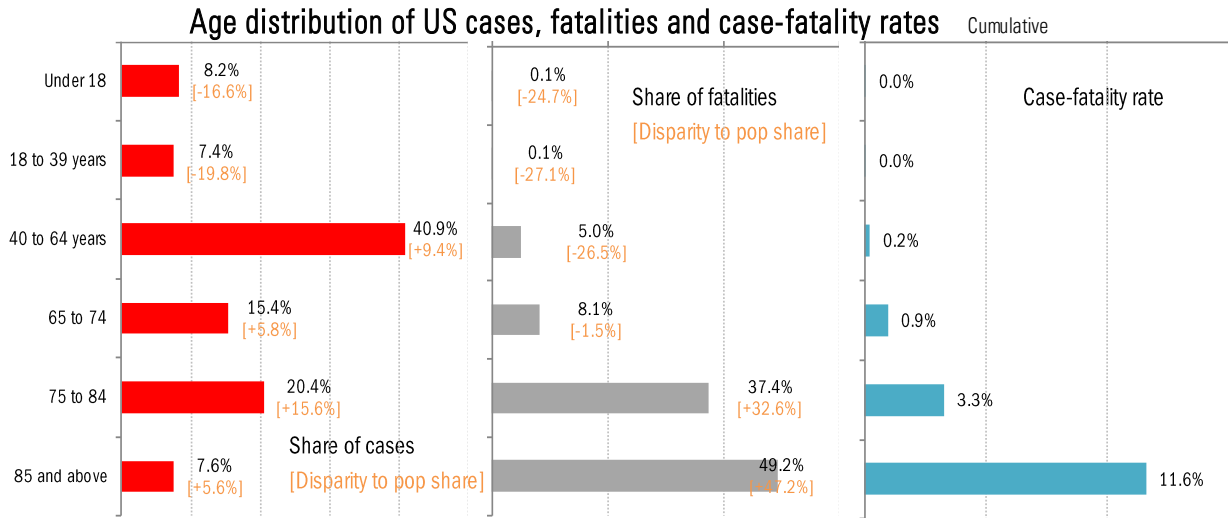
Source: CDC, CDC, Our World in Data, TrendMacro calculations

US deep-dive

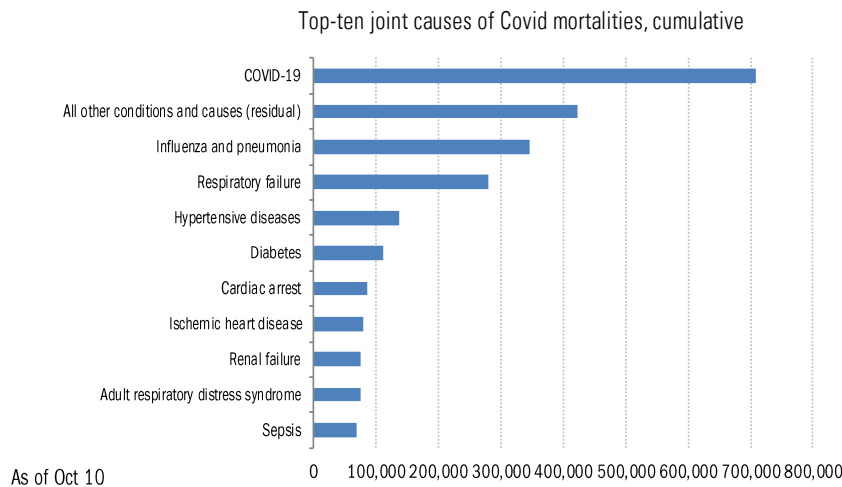
National and state-by-state data do not line up because of different sources



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



Comorbidities



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

[Rise in Cases and Deaths Tests Britain's Gamble on Few Virus Restrictions](#)

Mark Landler and Stephen Castle
New York Times
October 20, 2021

[Pfizer has secret government contracts for COVID vaccines: Advocacy group says company puts profits over public health and reveals seven of its contracts are worth \\$5BILLION](#)

Natasha Anderson
Daily Mail
October 20, 2021

[C.D.C. Recommends Covid Booster Shots for Millions of Americans](#)

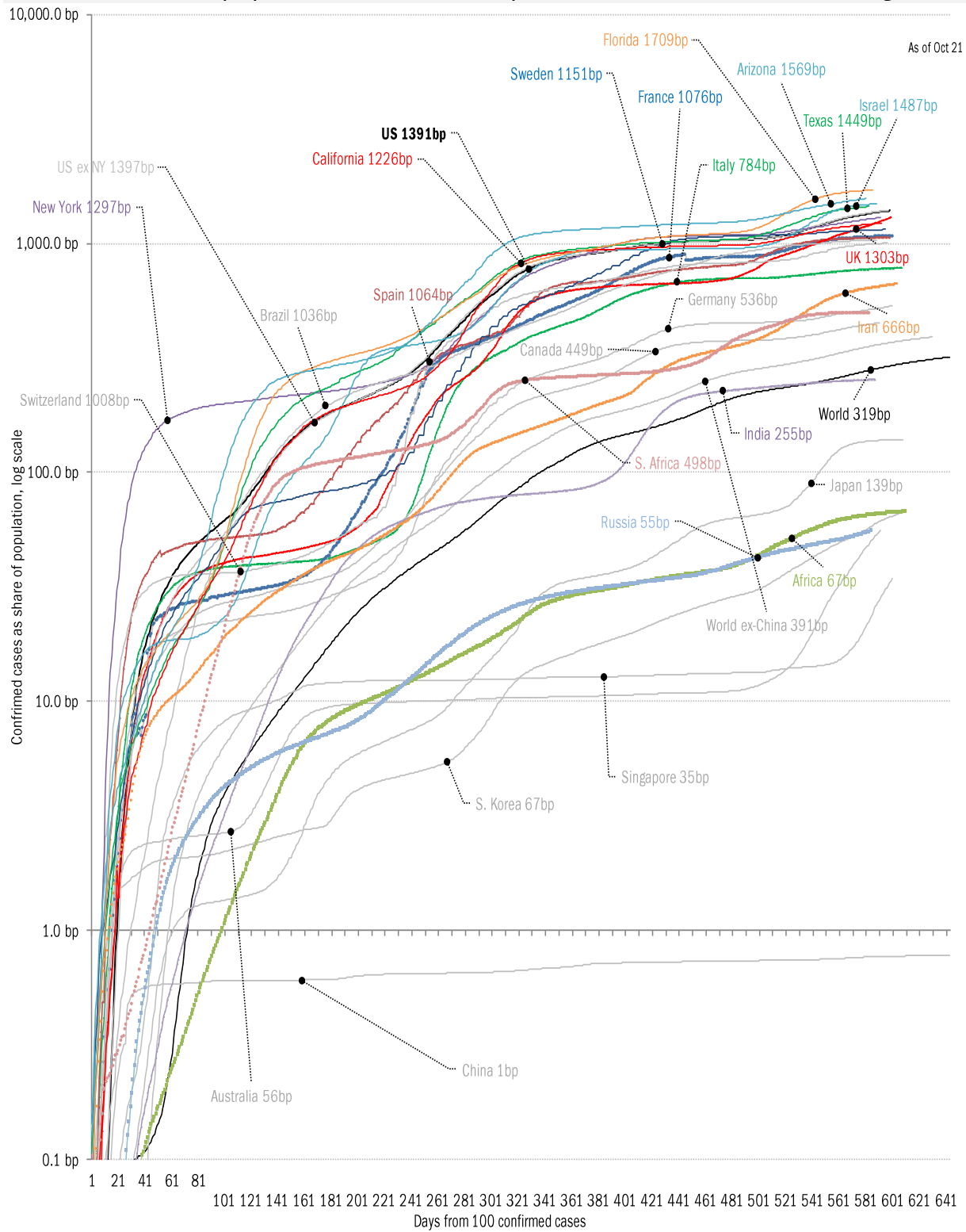
Apoorva Mandavilli
New York Times
October 21, 2021

Meme of the day



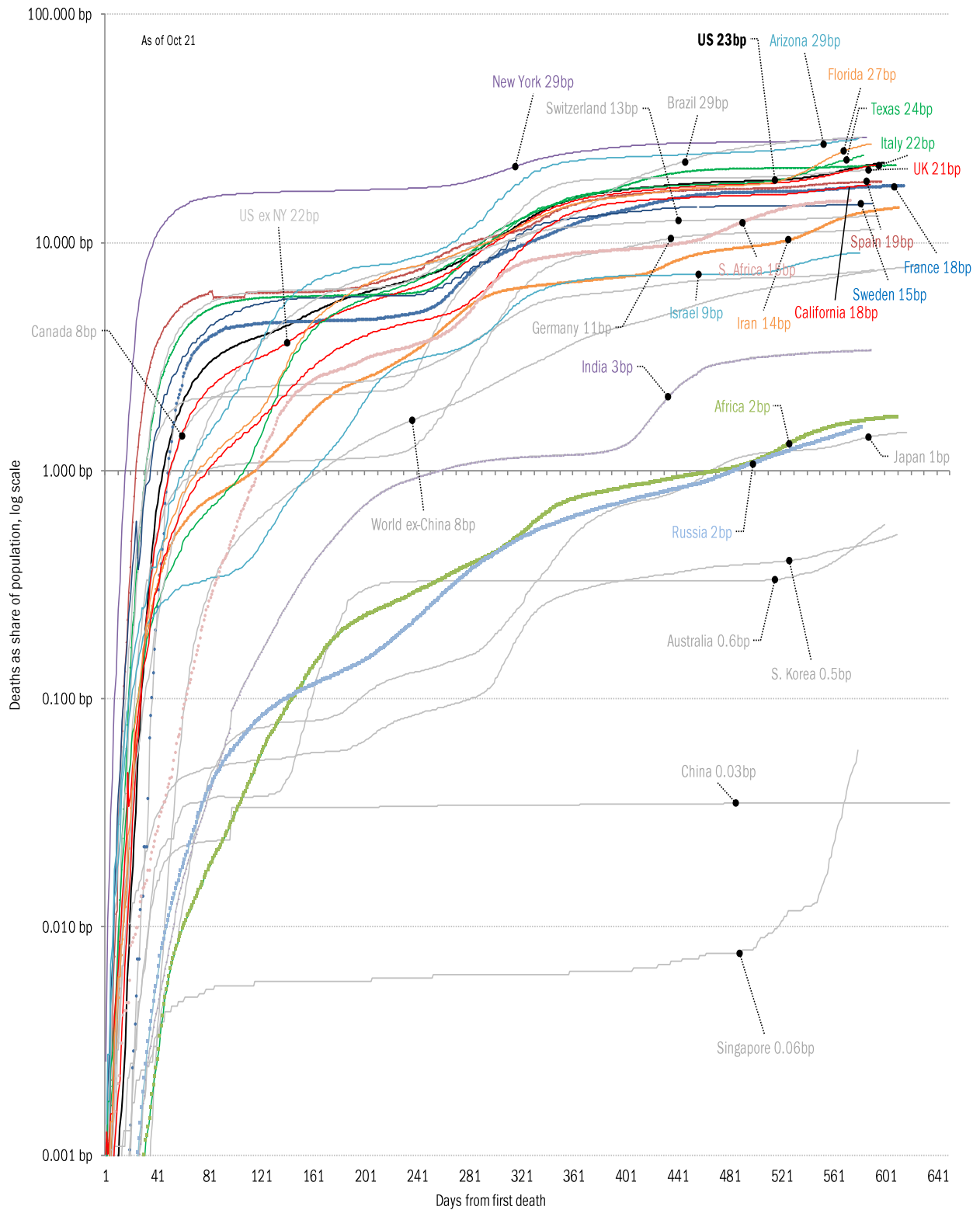
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

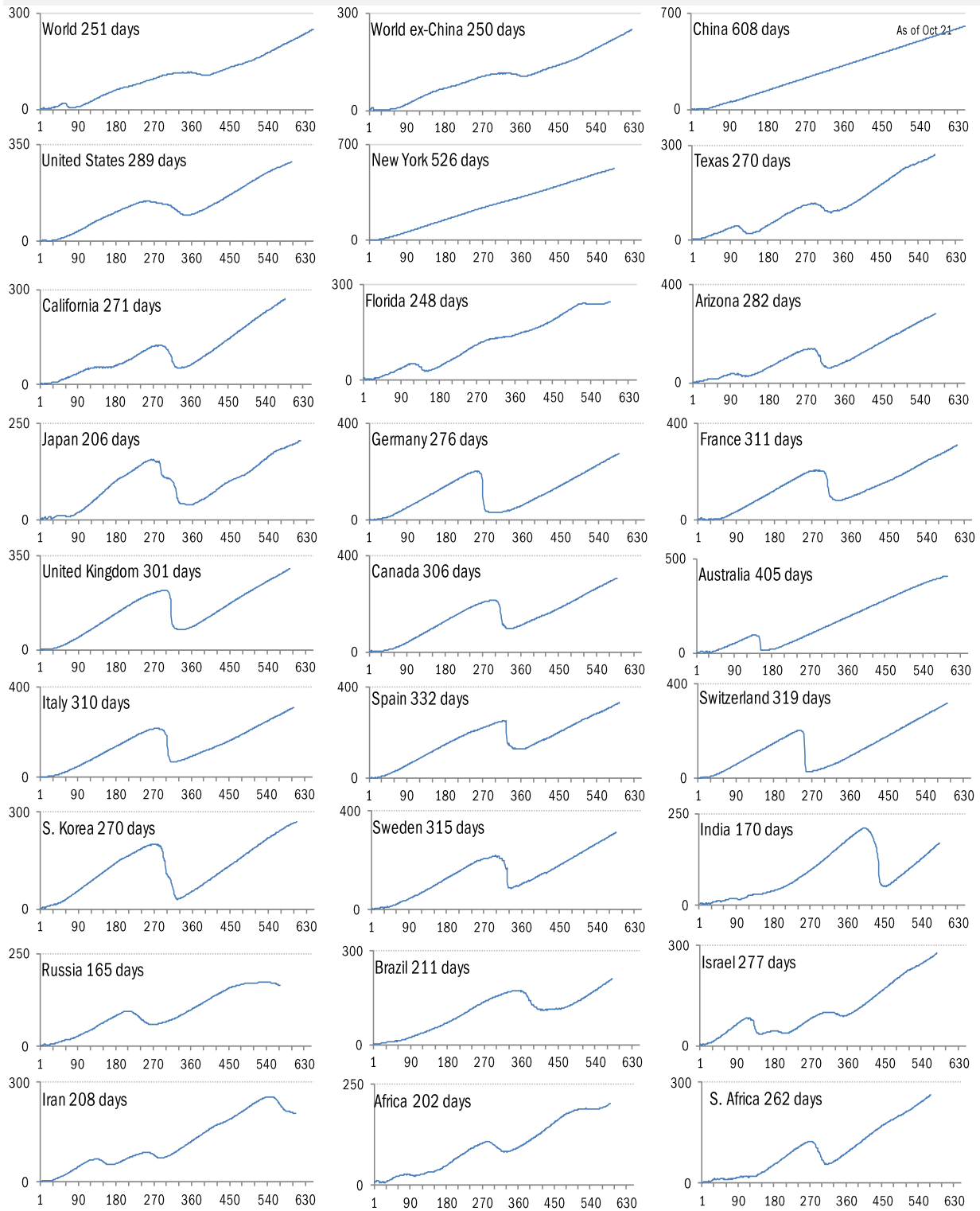


Source: [Johns Hopkins](#), TrendMacro calculations

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

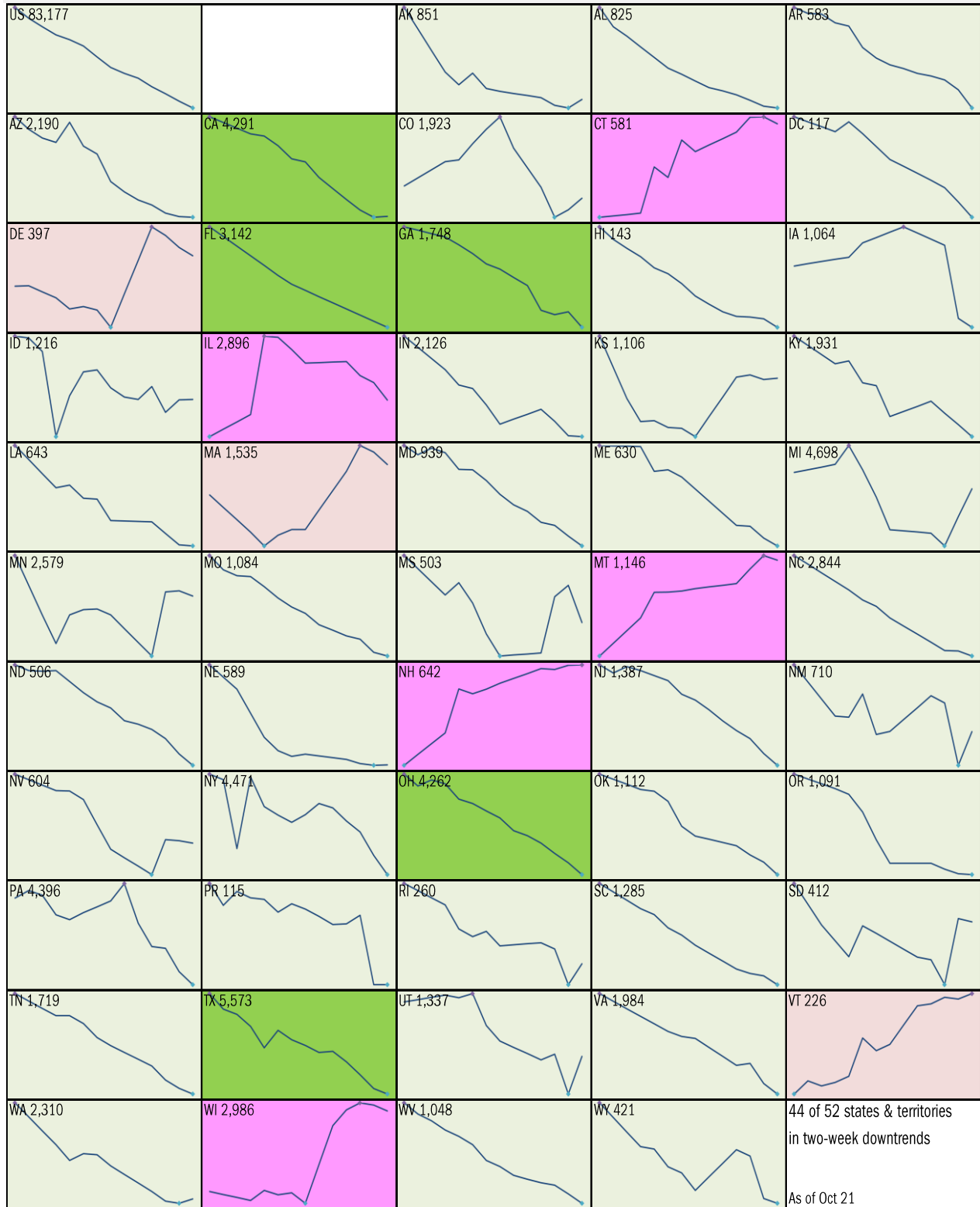
Vertical: days to double deaths Horizontal: days from first death

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

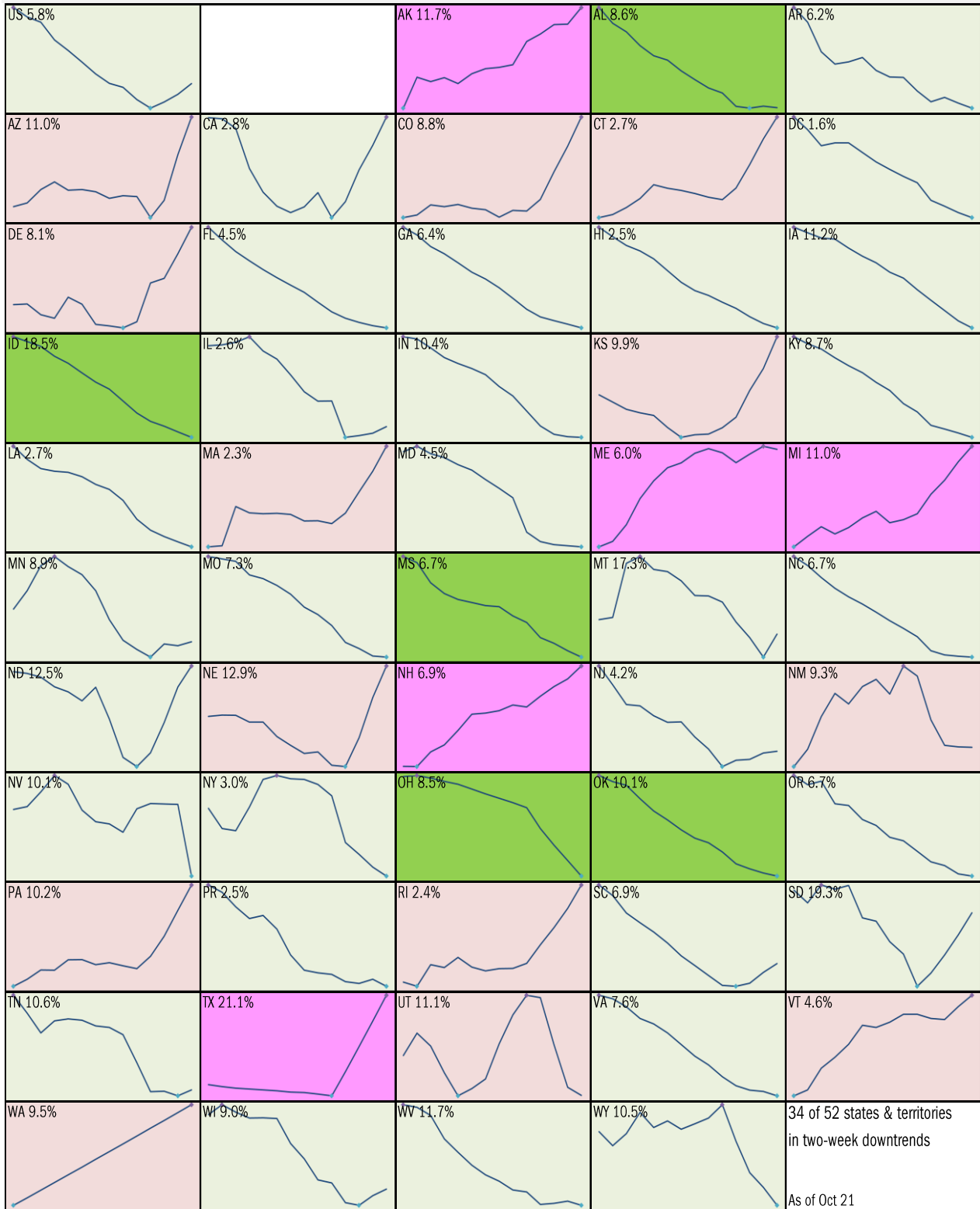


Source: [Johns Hopkins](#), TrendMacro calculations

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

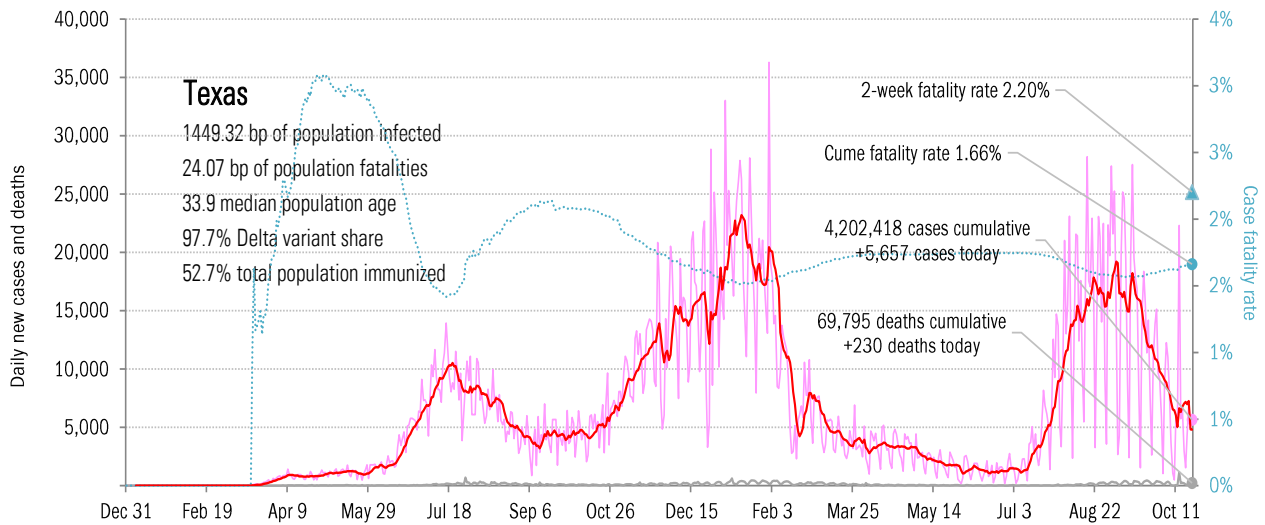
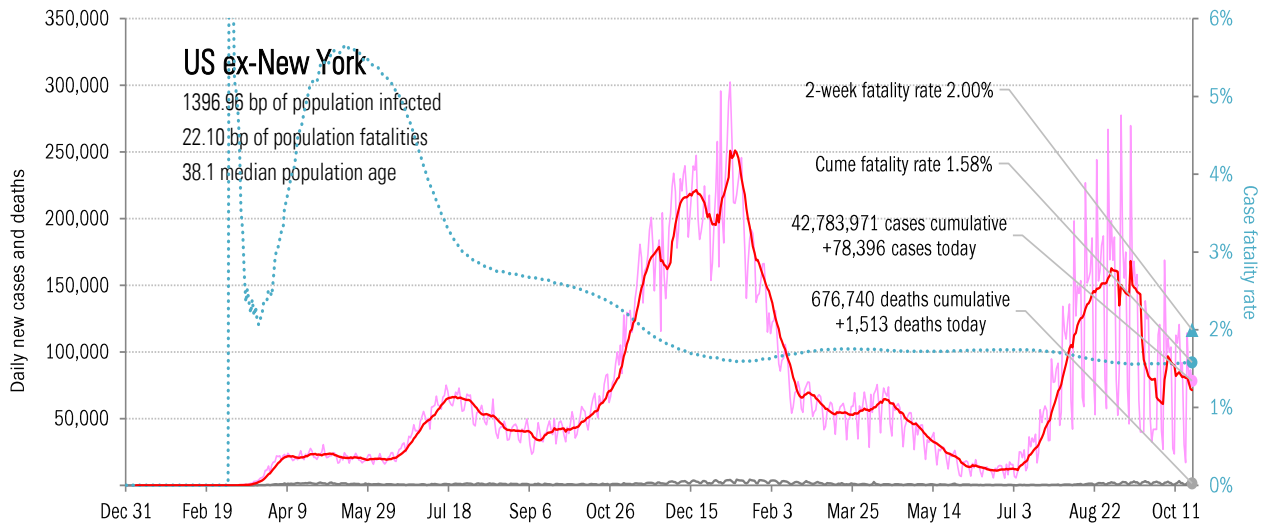
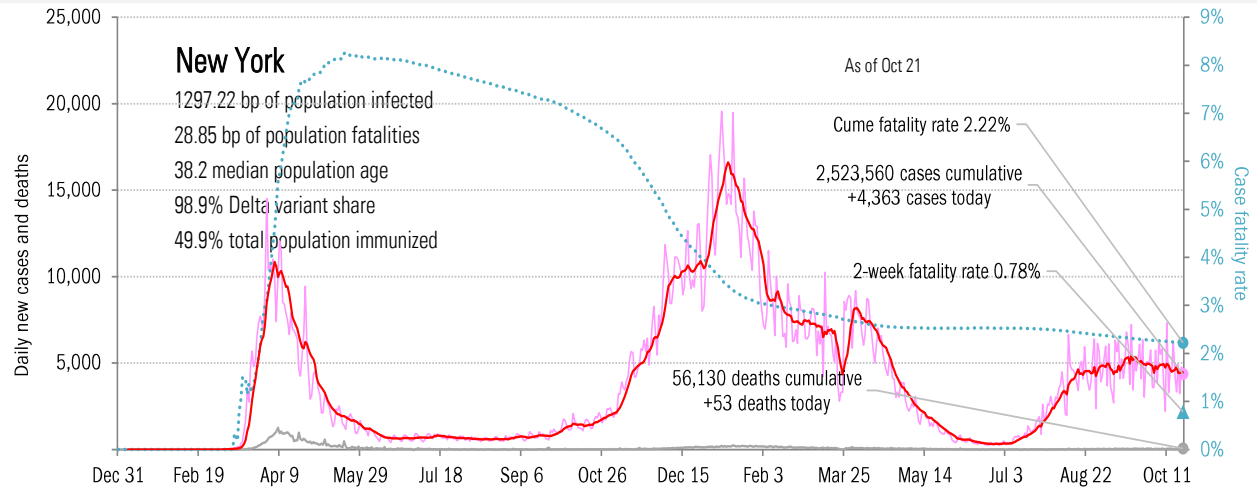
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

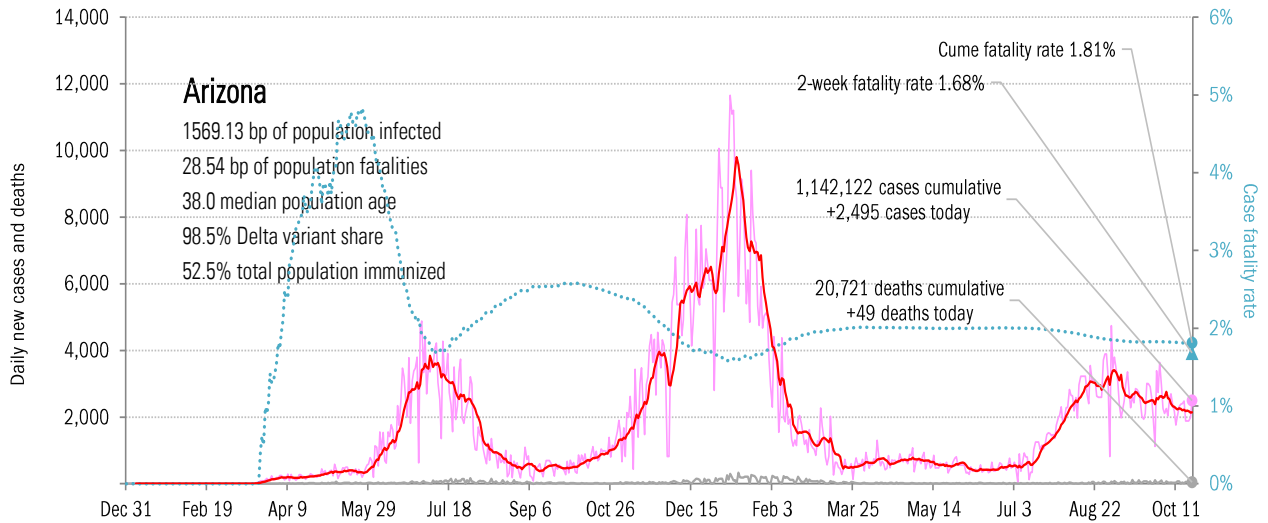
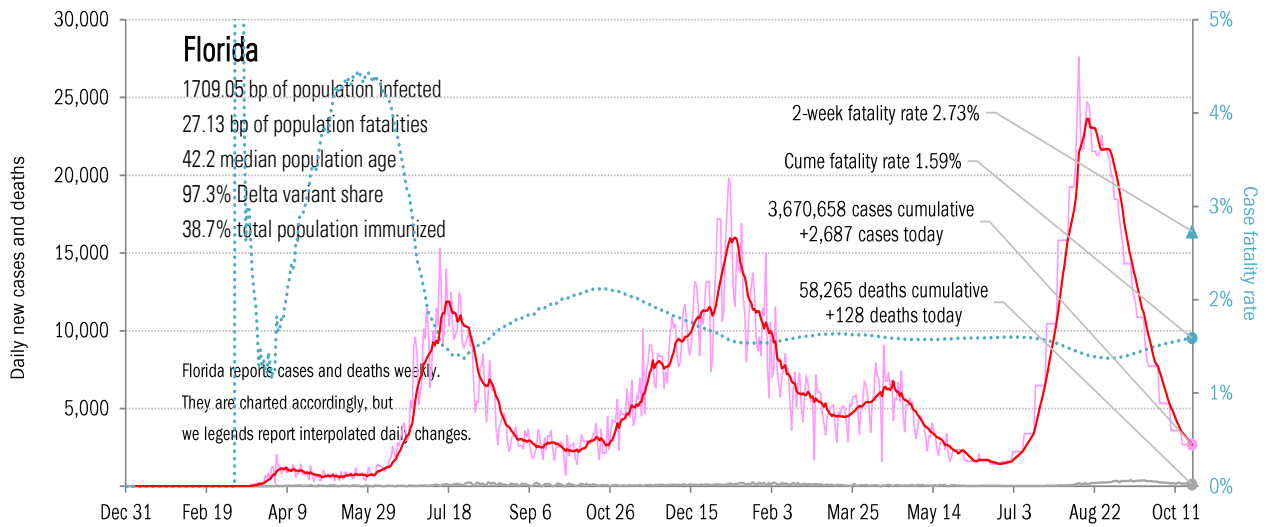
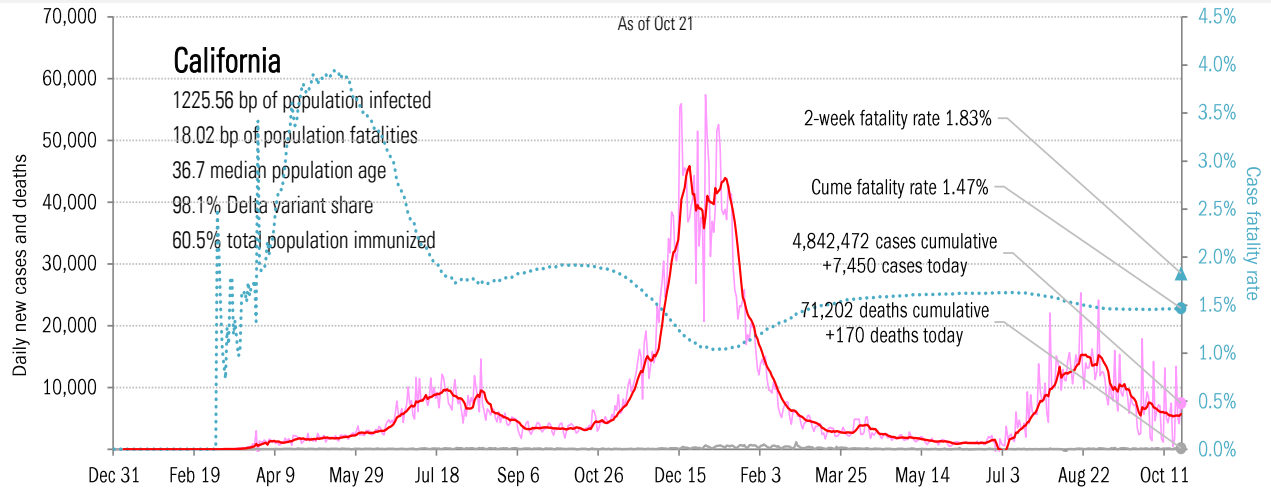
Cases: 7-day average and daily Deaths: Daily



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

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

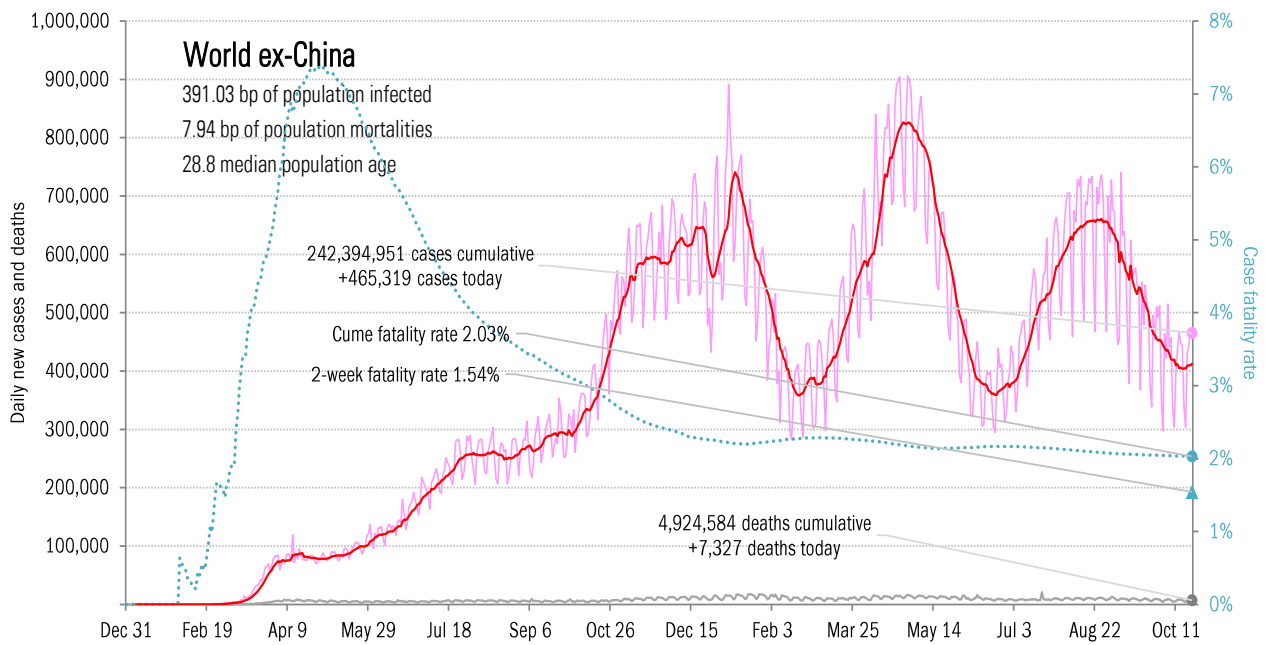
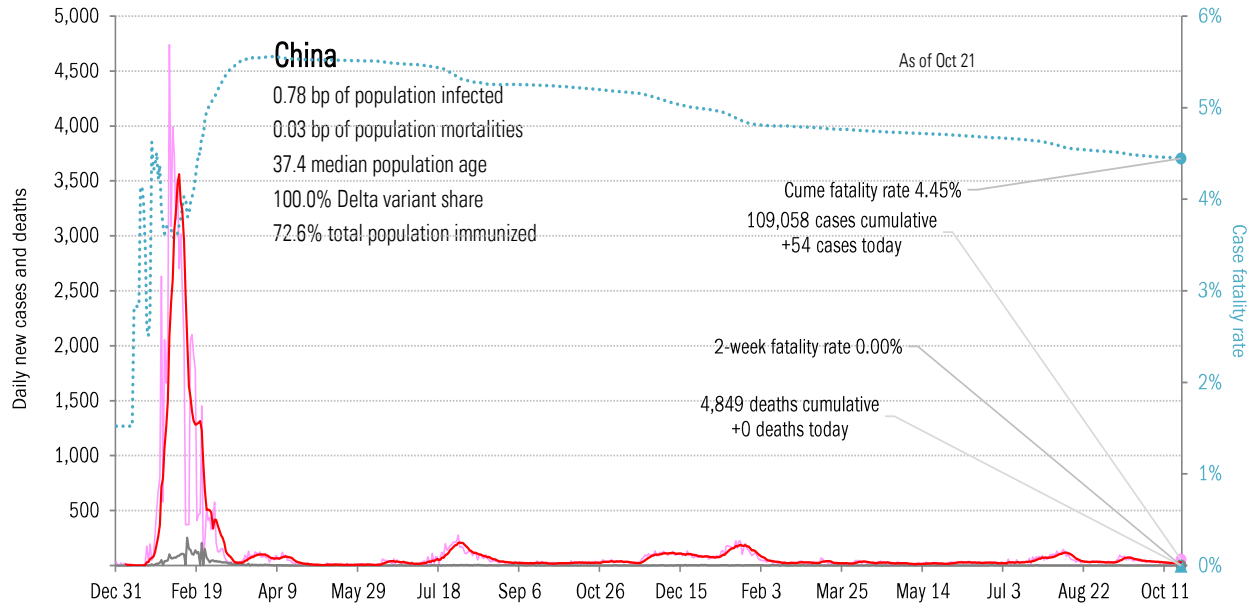
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

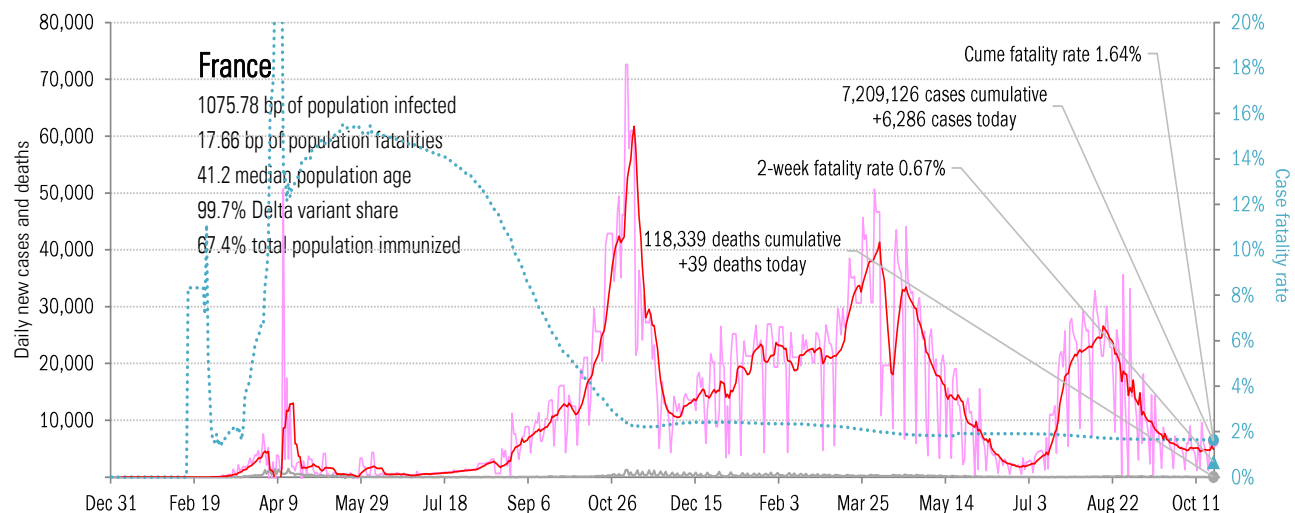
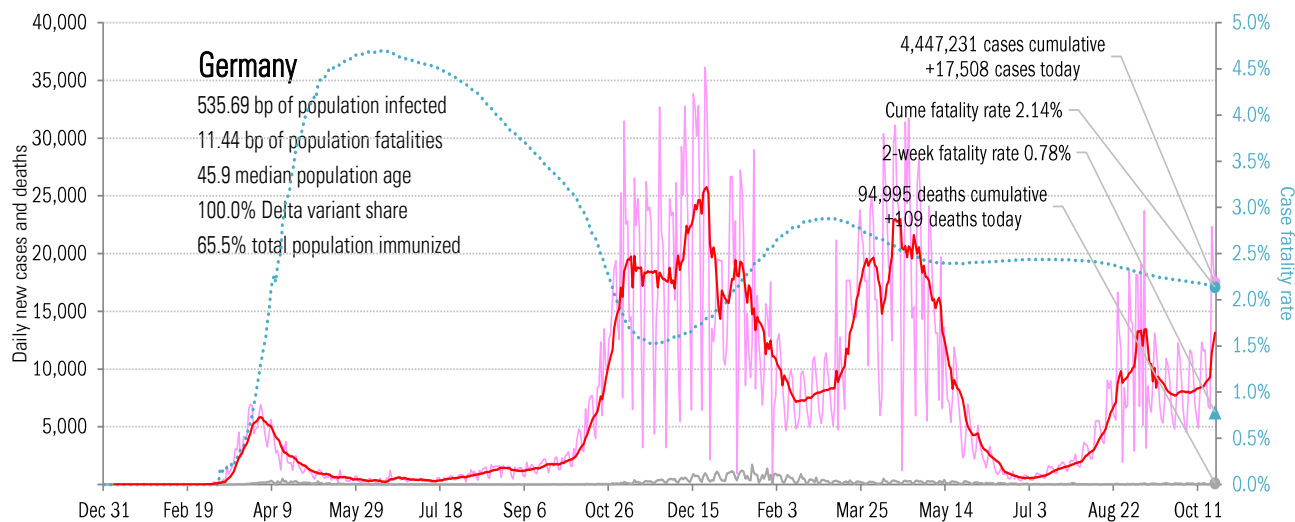
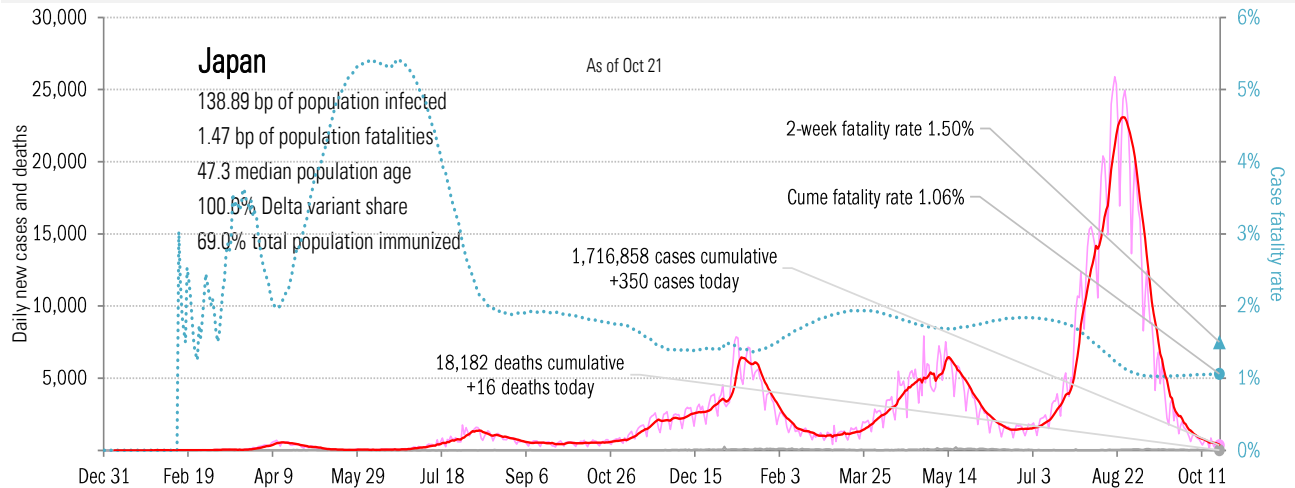
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

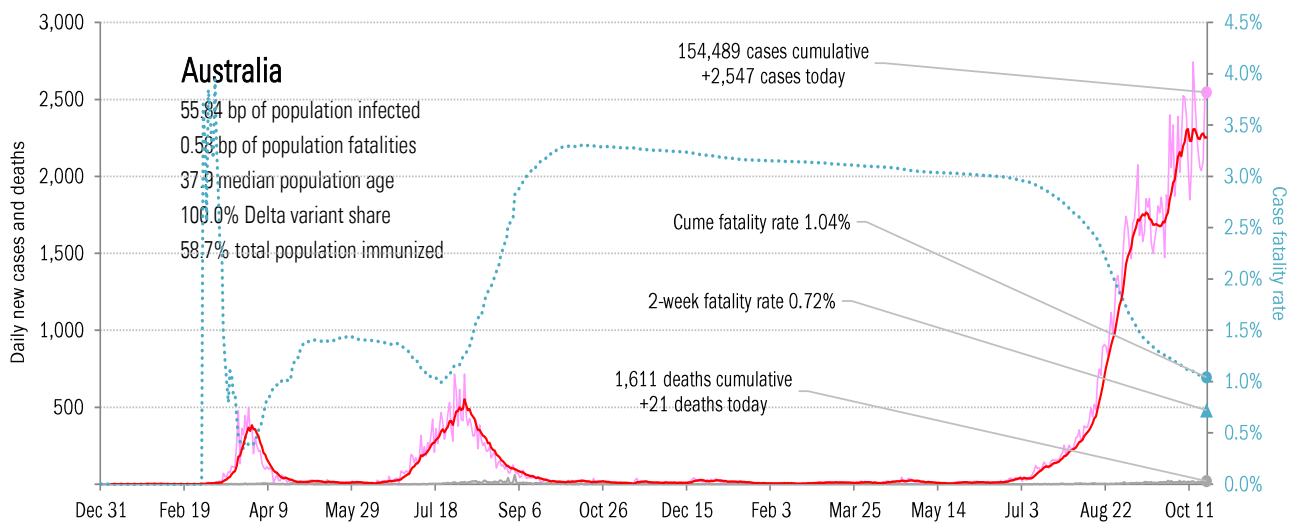
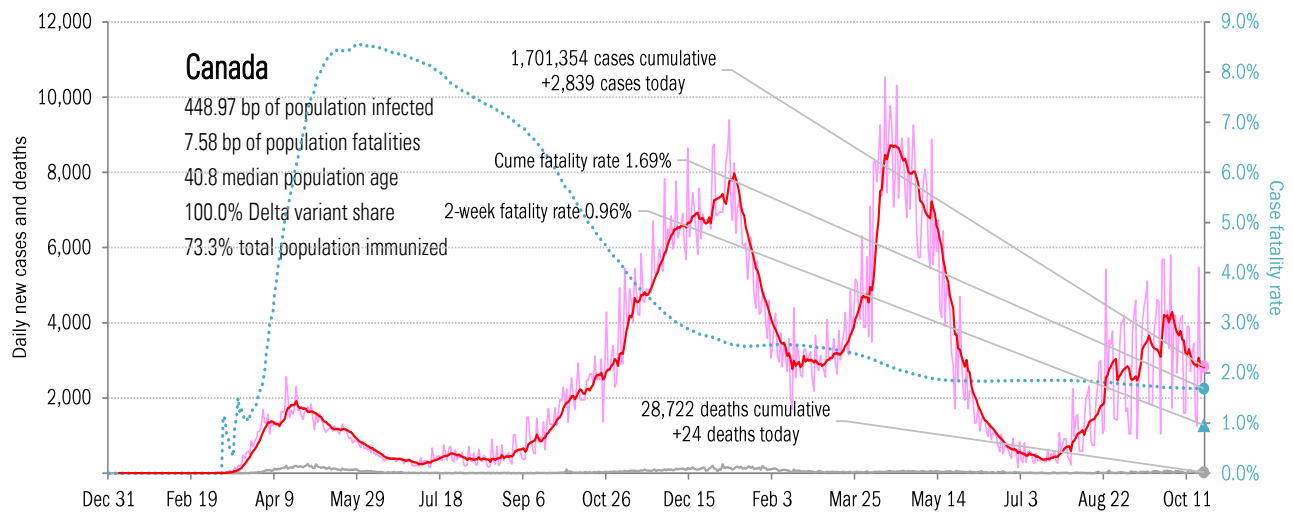
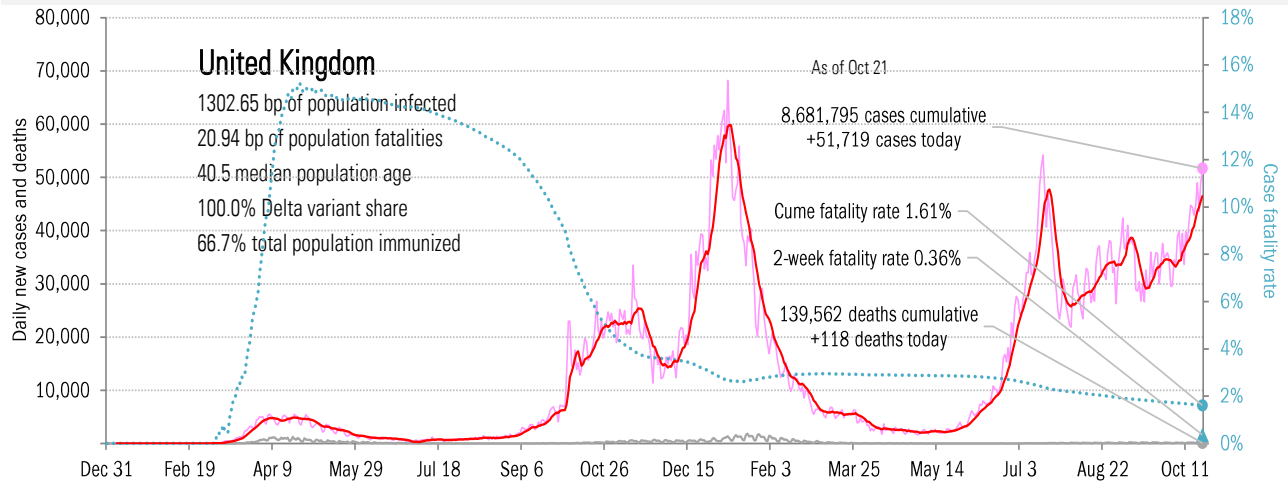
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

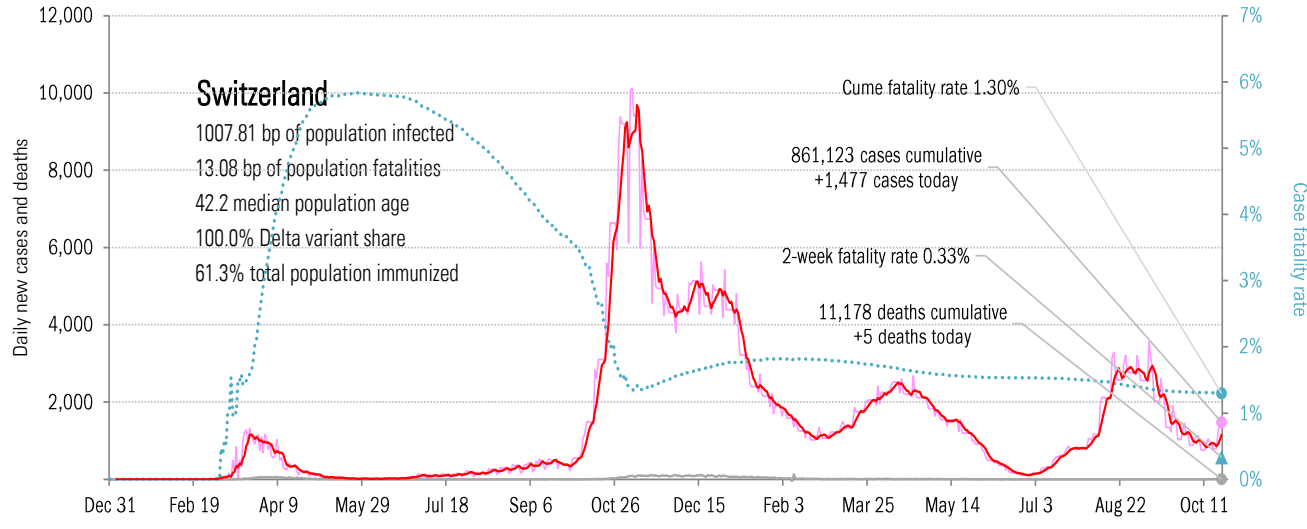
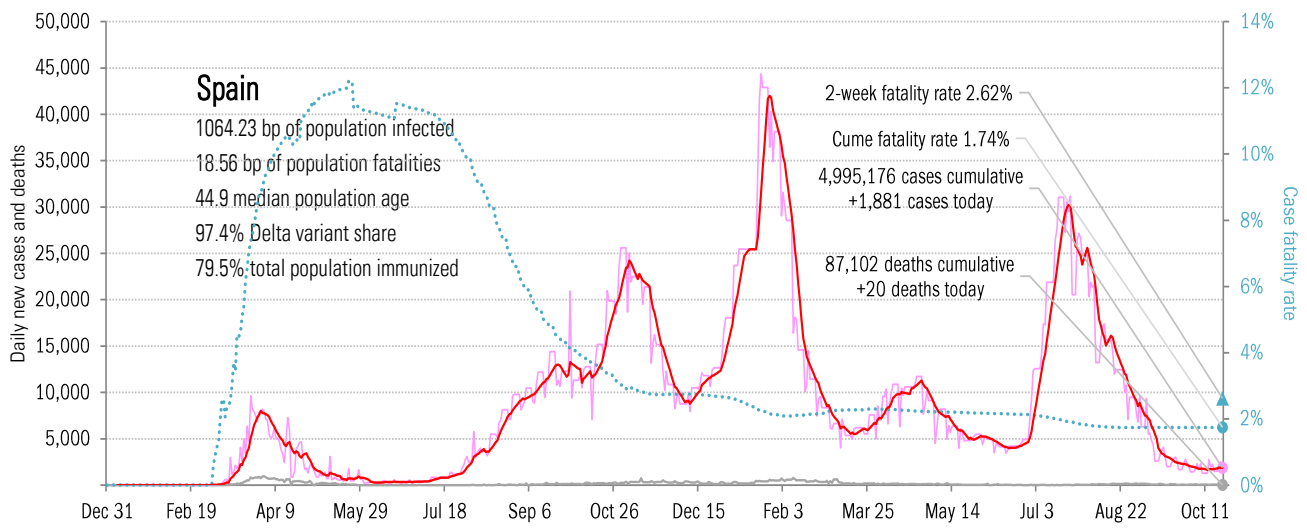
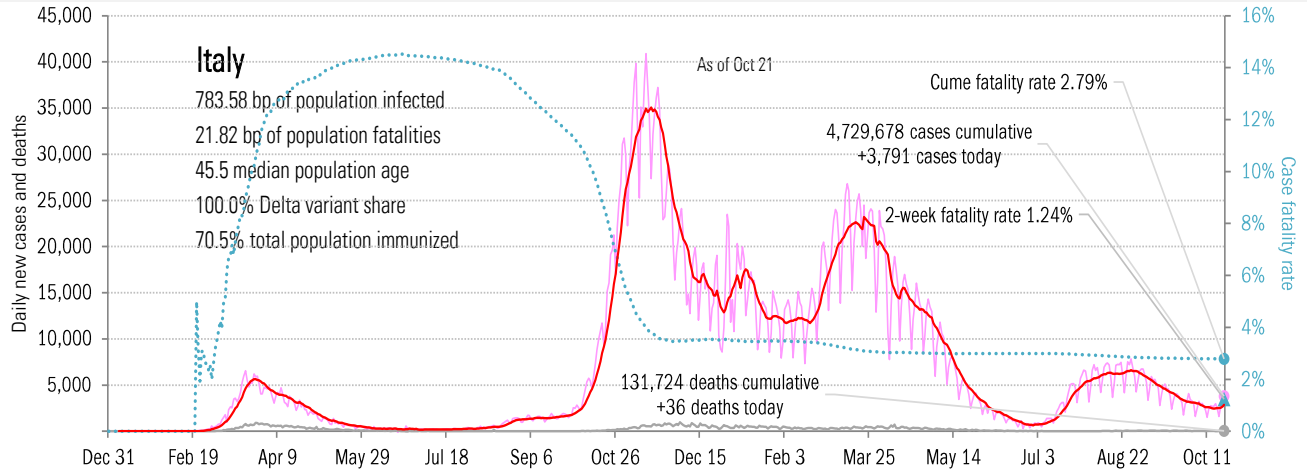
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

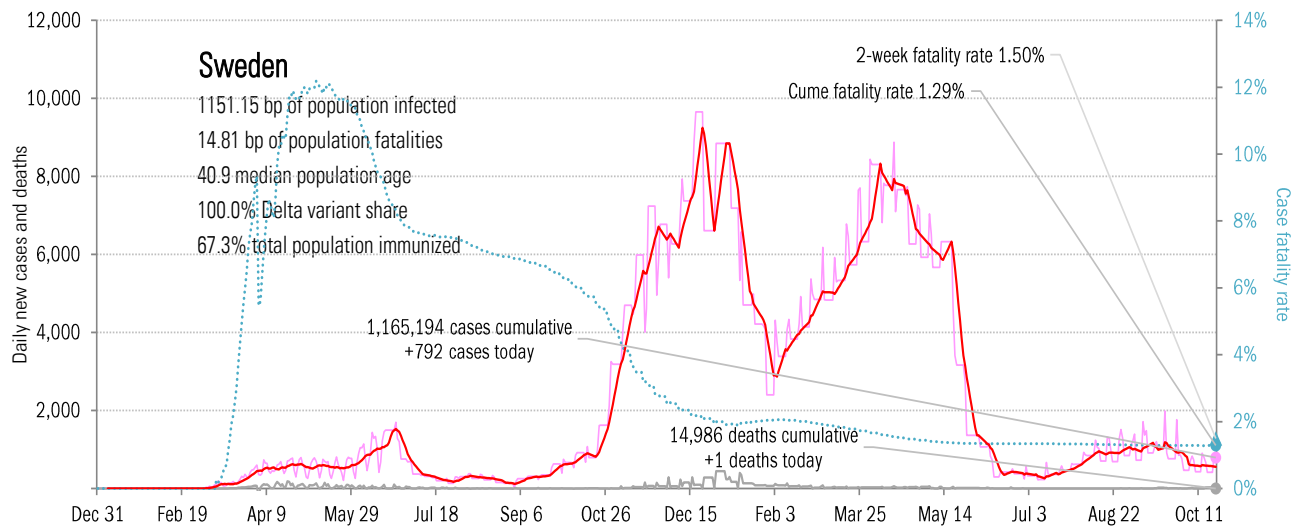
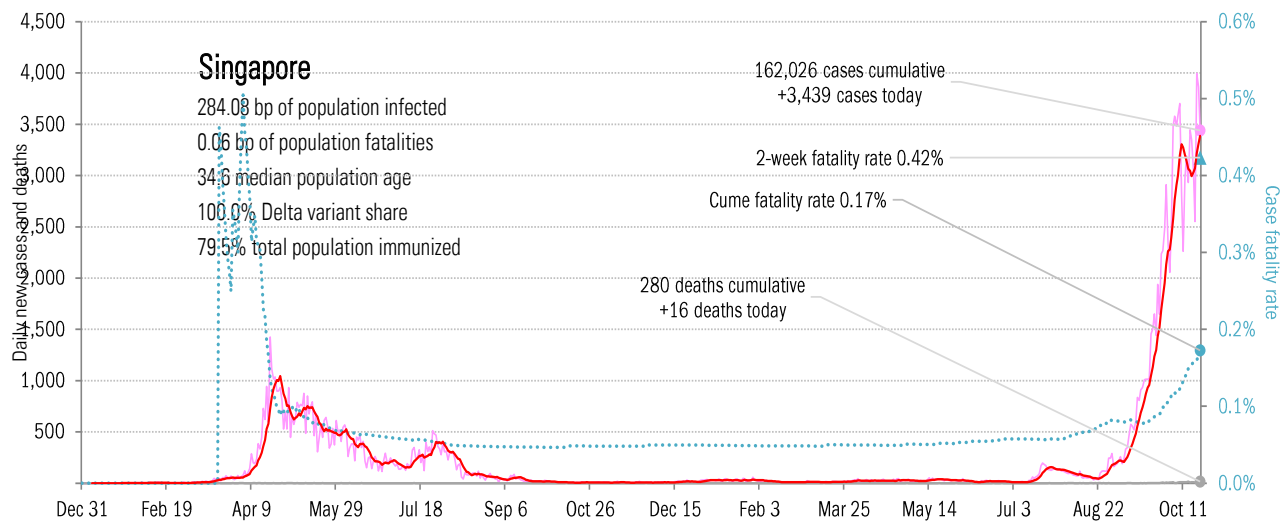
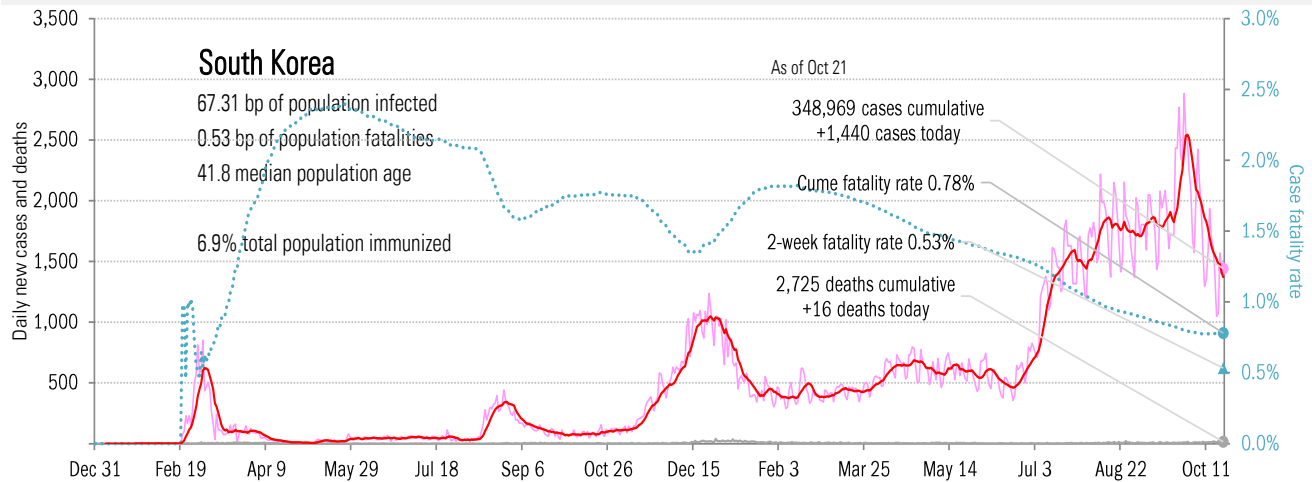
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

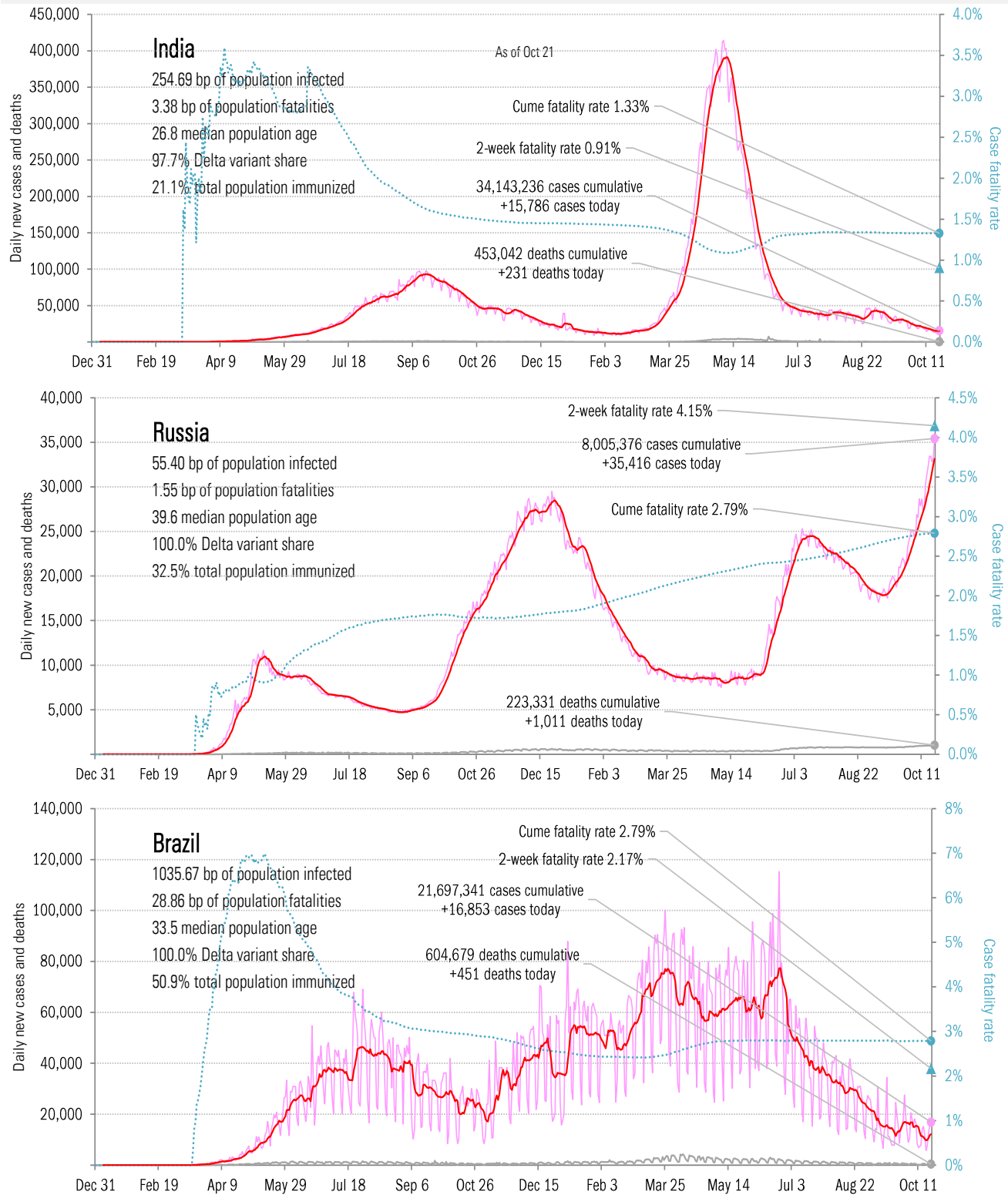
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

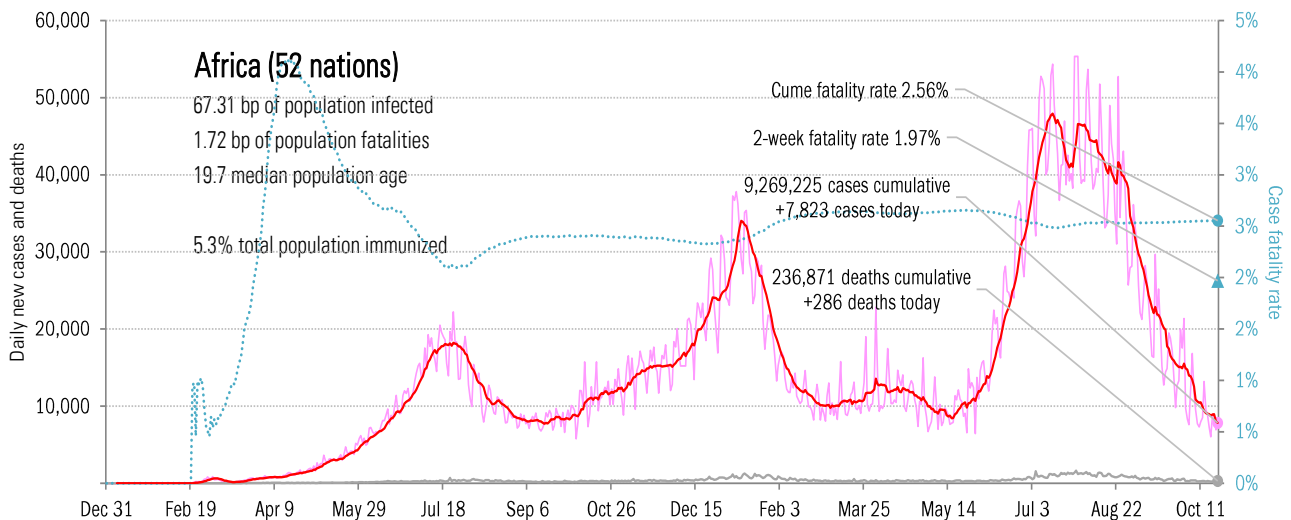
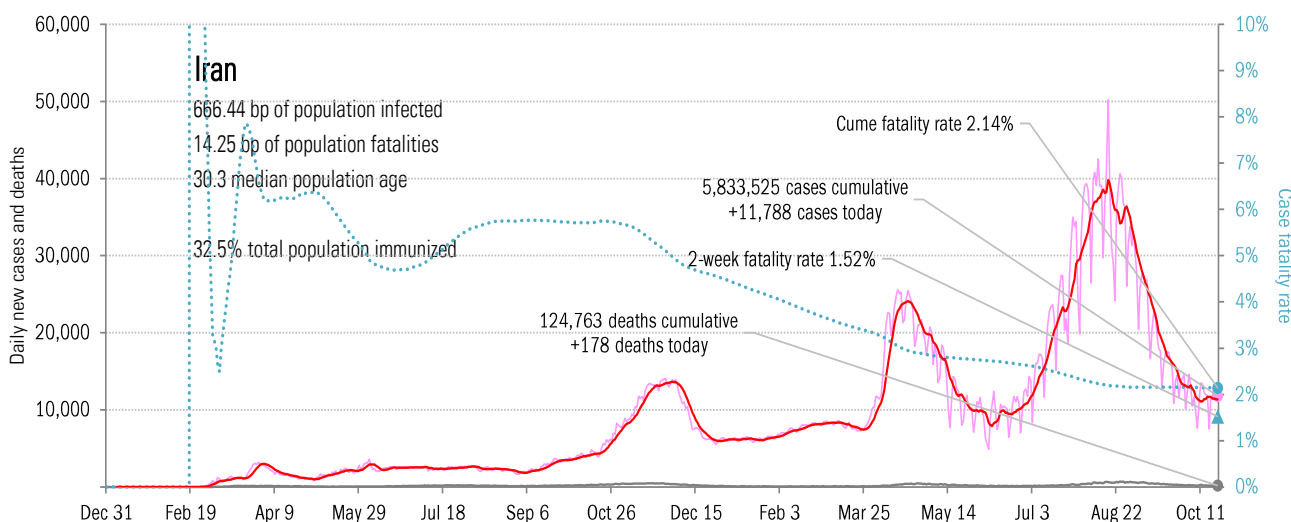
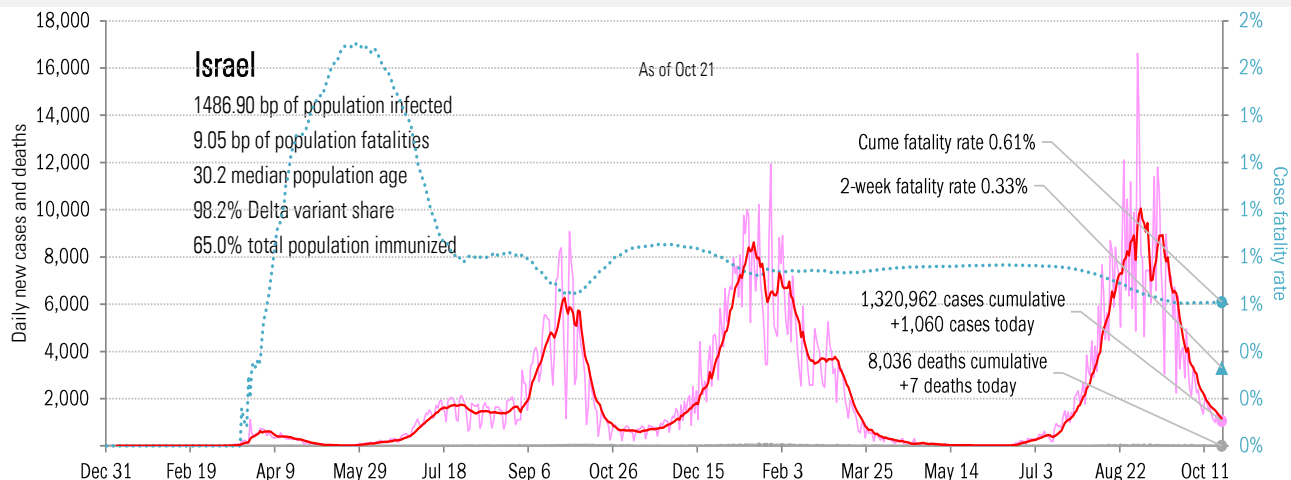
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

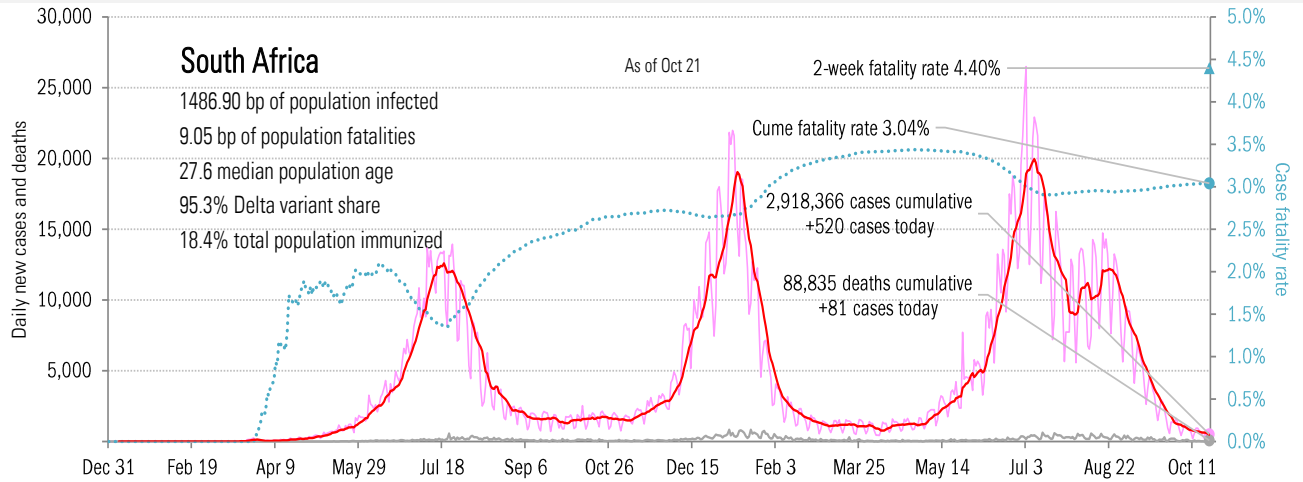
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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