

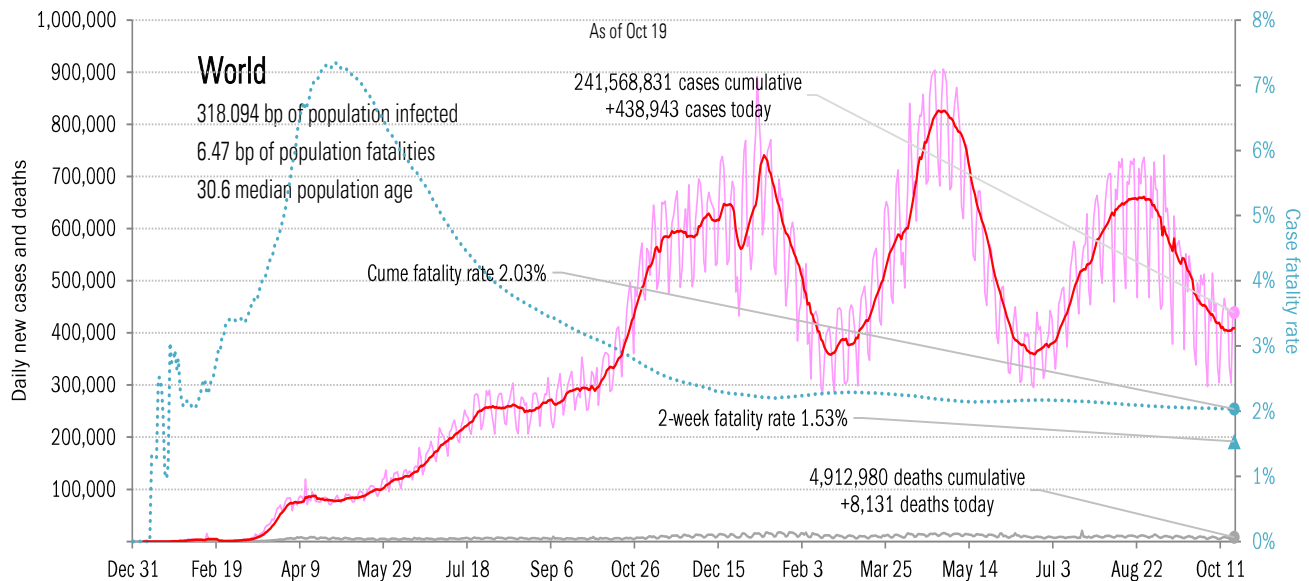
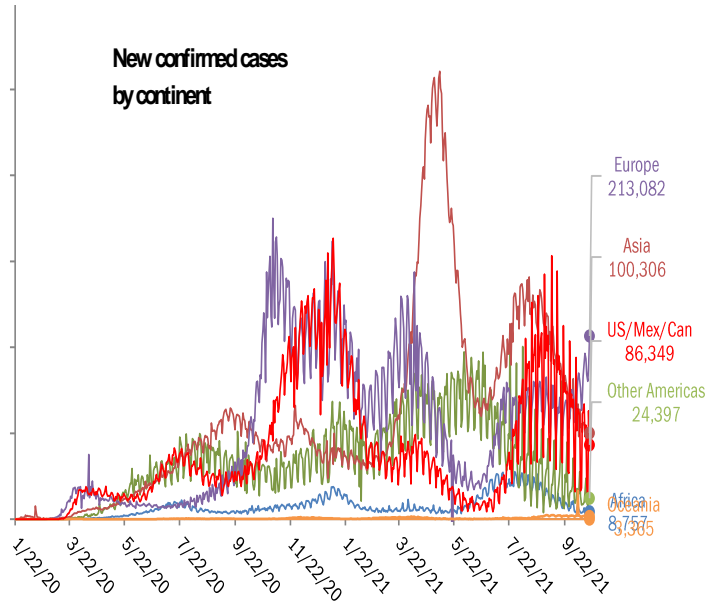
Data Insights: Covid-2019 Monitor

Wednesday, October 20, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+83,925	United States	+2,476
United Kingdom	+43,628	Russia	+991
Russia	+32,835	Romania	+574
Turkey	+30,862	Ukraine	+562
Germany	+22,340	Brazil	+390
Romania	+18,863	Turkey	+223
Ukraine	+16,484	United Kingdom	+223
India	+14,623	Philippines	+211
Iran	+13,308	India	+197
Brazil	+12,969	Iran	+167
+289,837		+6,014	
World	+438,943	World	+8,131
Top ten	66%	Top ten	74%



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

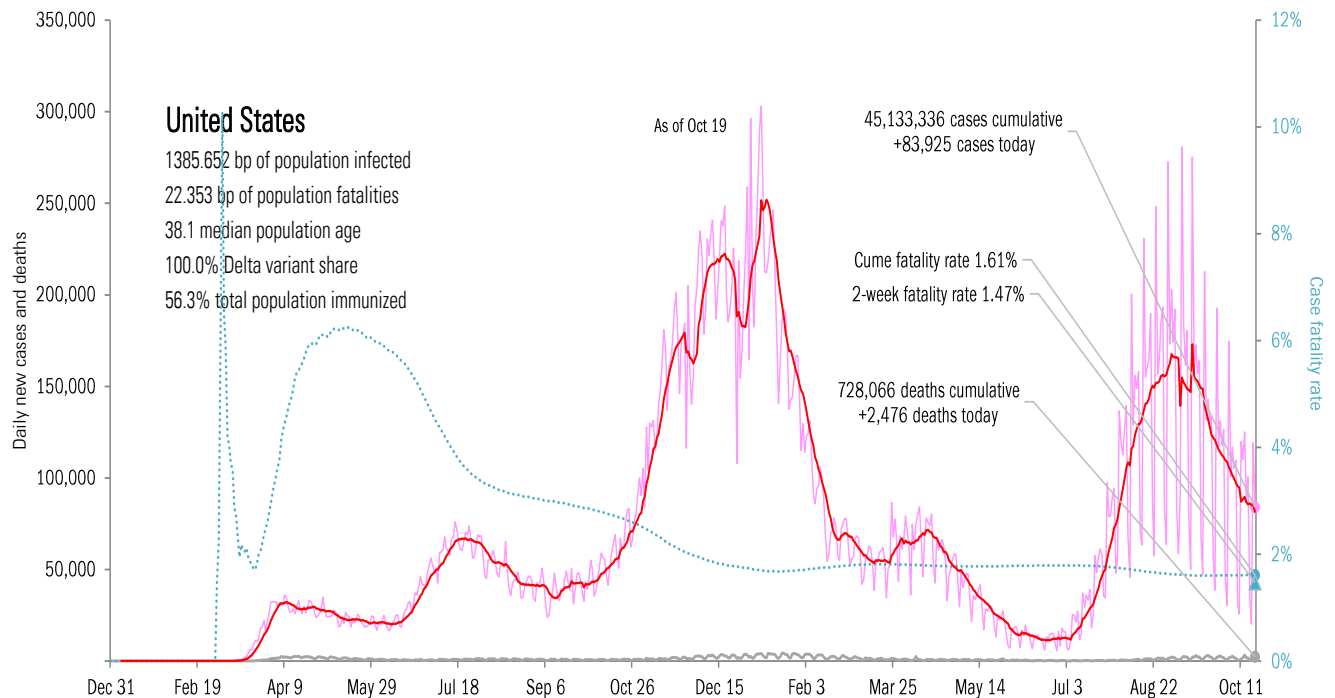
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
WA	+7,409		CA	+406		KY	+18		CA	4,830,872		CA	70,874		TX	369,673		RI	86%	ID	89%
TX	+6,930		CH	+289		AZ	+15		TX	4,191,397		TX	69,304		FL	315,253		NV	85%	NM	87%
MN	+5,663		TX	+201		NM	+11		FL	3,665,285		FL	58,017		CA	304,699		PA	85%	AL	87%
AZ	+5,660		AZ	+174		RI	+7		NY	2,514,422		NY	56,038		NY	160,767		MA	83%	AK	87%
CA	+5,164		GA	+136		NH	+6		IL	1,673,346		PA	30,587		GA	157,366		MD	81%	TX	86%
PA	+3,899		FL	+120		HI	+2		GA	1,620,694		GA	28,076		CH	119,252		GA	80%	NV	86%
CH	+3,617		WA	+88		FR	+1		PA	1,517,231		IL	27,924		PA	112,846		WA	80%	CK	84%
NY	+3,240		TN	+85		VI	+1		CH	1,503,102		NJ	27,768		KY	109,639		MI	80%	RI	84%
AK	+2,823		AL	+84		AK	+0		NC	1,455,188		CH	23,616		IL	103,040		MN	79%	DE	83%
FL	+2,687		MO	+74		AS	+0		TN	1,267,363		MI	23,017		MI	88,062		NY	79%	GA	83%
+47,092			+1,657			+61			24,238,900			415,221			1,840,597						
All states	+83,925		+2,476			-1524			All states	45,133,336		728,066			3,281,855			All states	70%	67%	
Top ten	56%		67%			-4%			Top ten	54%		57%			56%			Median	74%	77%	

Some states not reporting

Five most improved US states

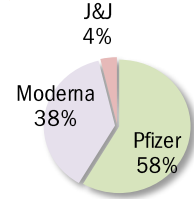
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-9,341	SC	-85	MI	-107	AK	+30 bp
CA	-8,235	KY	-74	NC	-76	HI	+20 bp
NC	-5,559	MI	-48	MN	-74	IA	+20 bp
IL	-3,427	VA	-43	TX	-74	ME	+20 bp
VA	-3,327	IL	-42	FL	-69	FR	+20 bp



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		Immunity	Full	Partial	
Doses	420,969,878		+0.669 million		US	56.3%	65.2%	
	One dose	% Pop	Immune	% pop	New immune today	UK	66.6%	72.5%
Total population	224,498,823	67%	194,255,034	58%	+0.206 million	France	67.3%	75.3%
Age 12 to 17	14,072,285	59%	11,624,030	49%	+0.022 million	Spain	79.3%	81.1%
Age 18 to 64	155,239,293	76%	133,984,224	66%	+0.165 million	Germany	65.3%	68.3%
Age 65 and over	54,089,966	99%	47,745,556	87%	+0.019 million	Italy	70.3%	76.7%



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



Every American >18 immune in **108 days** by Feb 3, 2022
 70.4% of population >18 immunized
 16.1% previously tested positive
86.4% vs 60% adult herd immunity

Australia	57.2%	71.6%
Israel	64.9%	70.7%
Canada	73.1%	77.8%
Japan	68.3%	76.2%
Africa	5.2%	7.8%
India	20.6%	50.3%
Brazil	50.1%	73.2%
China	72.6%	76.2%

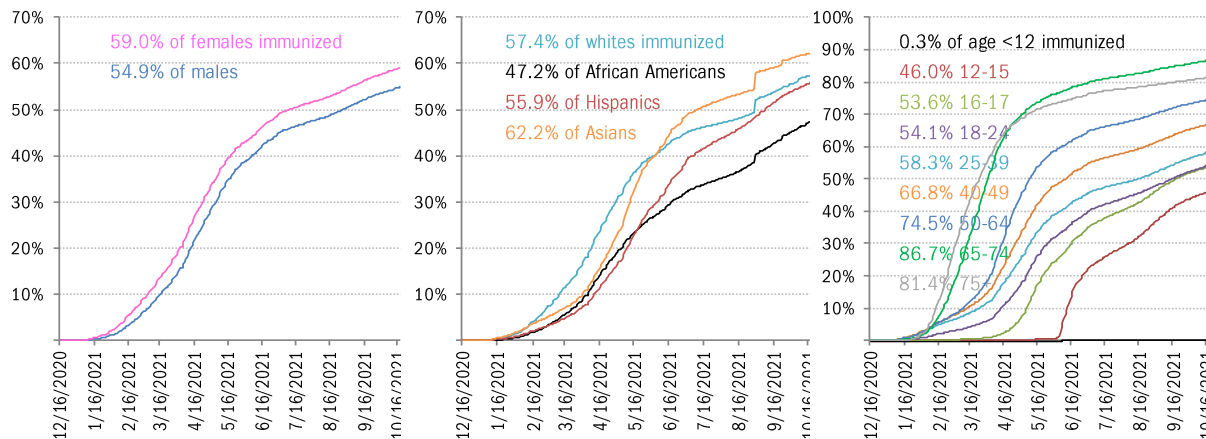
AK
58.6%
52.0%

As of Oct 19

Global data differs from sources, timing

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
68.5%	48.3%	56.1%	52.4%	64.5%	69.5%	57.5%	73.1%	78.9%	73.1%	
62.7%	43.0%	49.8%	45.4%	59.2%	54.4%	53.0%	65.6%	70.6%	62.5%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
67.7%	62.3%	49.9%	60.9%	59.0%	53.2%	55.2%	75.6%	74.0%	78.9%	
62.2%	52.1%	43.2%	52.8%	55.0%	49.4%	51.3%	59.6%	65.7%	69.0%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
73.4%	60.2%	66.7%	60.4%	56.1%	62.2%	48.7%	70.0%	72.1%	77.9%	76.9%
60.4%	52.5%	60.8%	55.7%	49.1%	54.1%	40.9%	62.2%	65.4%	70.0%	70.0%
AZ	NM	KS	AR	TN	NC	SC	DC	DE		
60.5%	74.0%	61.3%	56.8%	53.9%	62.3%	56.6%	72.8%	68.1%		
52.4%	64.4%	52.4%	46.9%	47.0%	51.9%	49.1%	61.5%	59.1%		
OK	LA	MS	AL	GA						
58.1%	52.9%	51.4%	53.7%	56.1%						
49.1%	46.8%	45.0%	44.0%	47.1%						
TX										
60.7%										
52.6%										
HI							FL		PR	
77.9%							68.2%		80.7%	
59.2%							58.9%		72.2%	

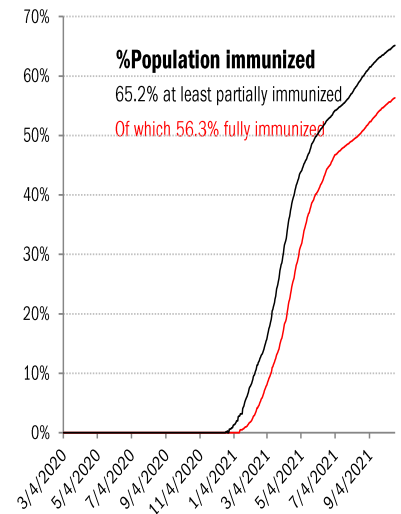
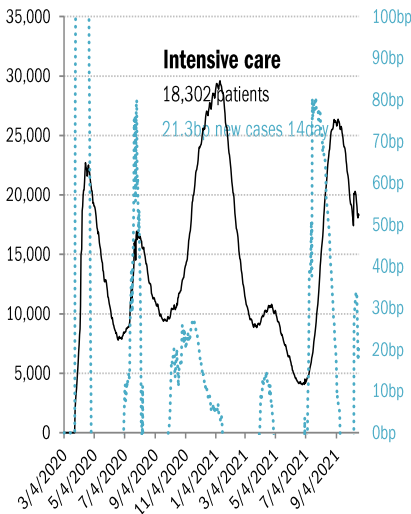
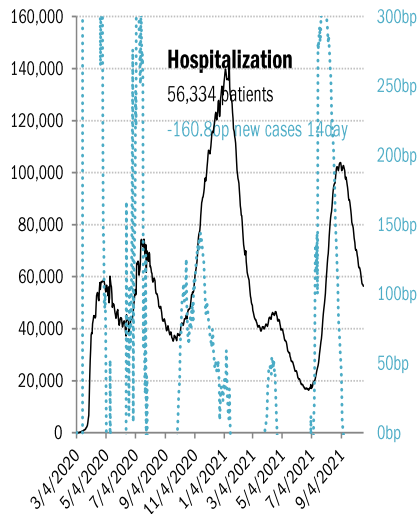
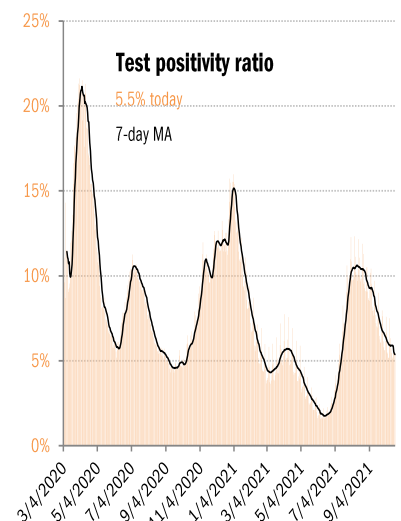
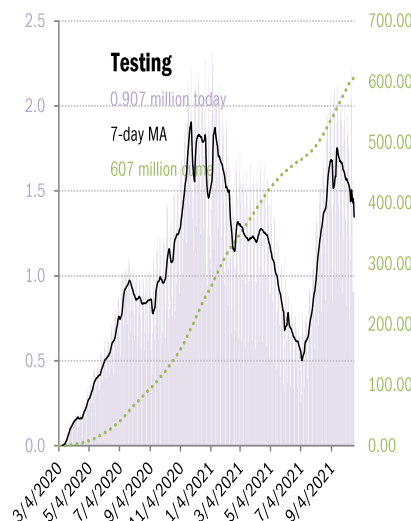
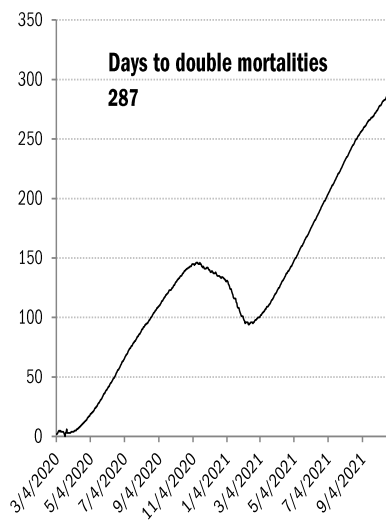
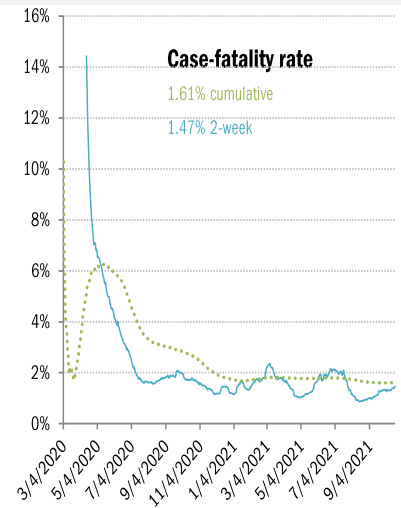
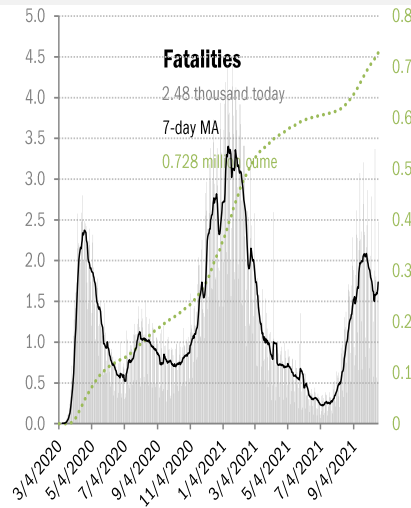
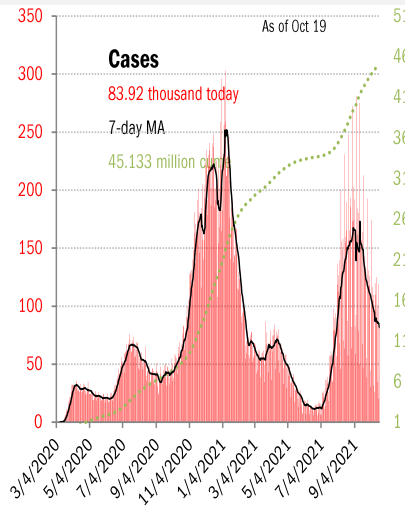
The demographics of US vaccination



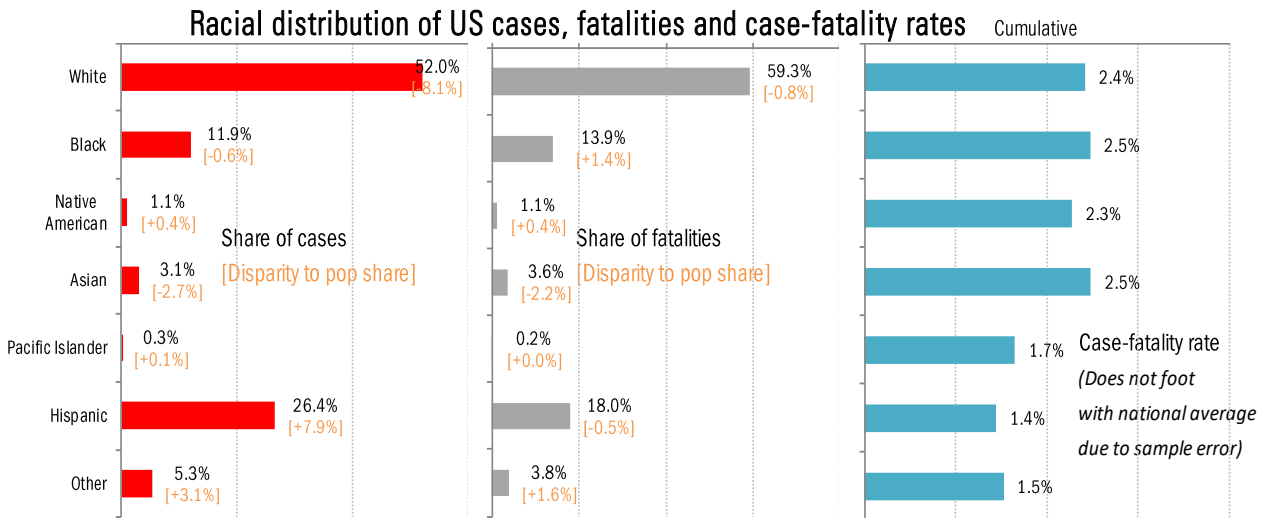
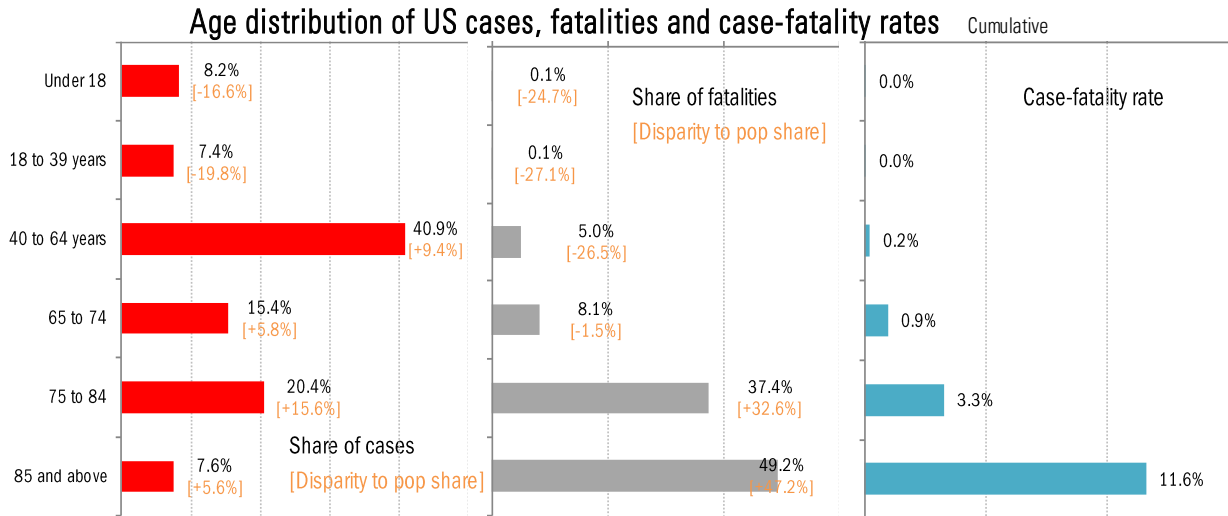
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

US deep-dive

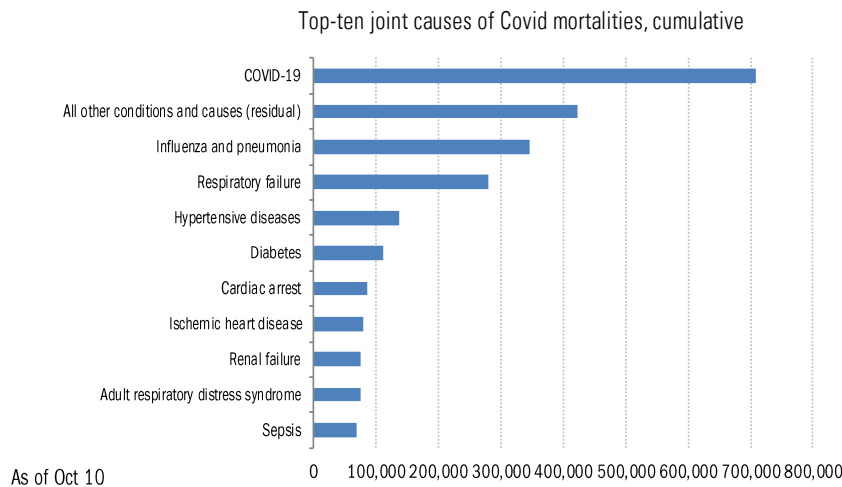
National and state-by-state data do not line up because of different sources



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

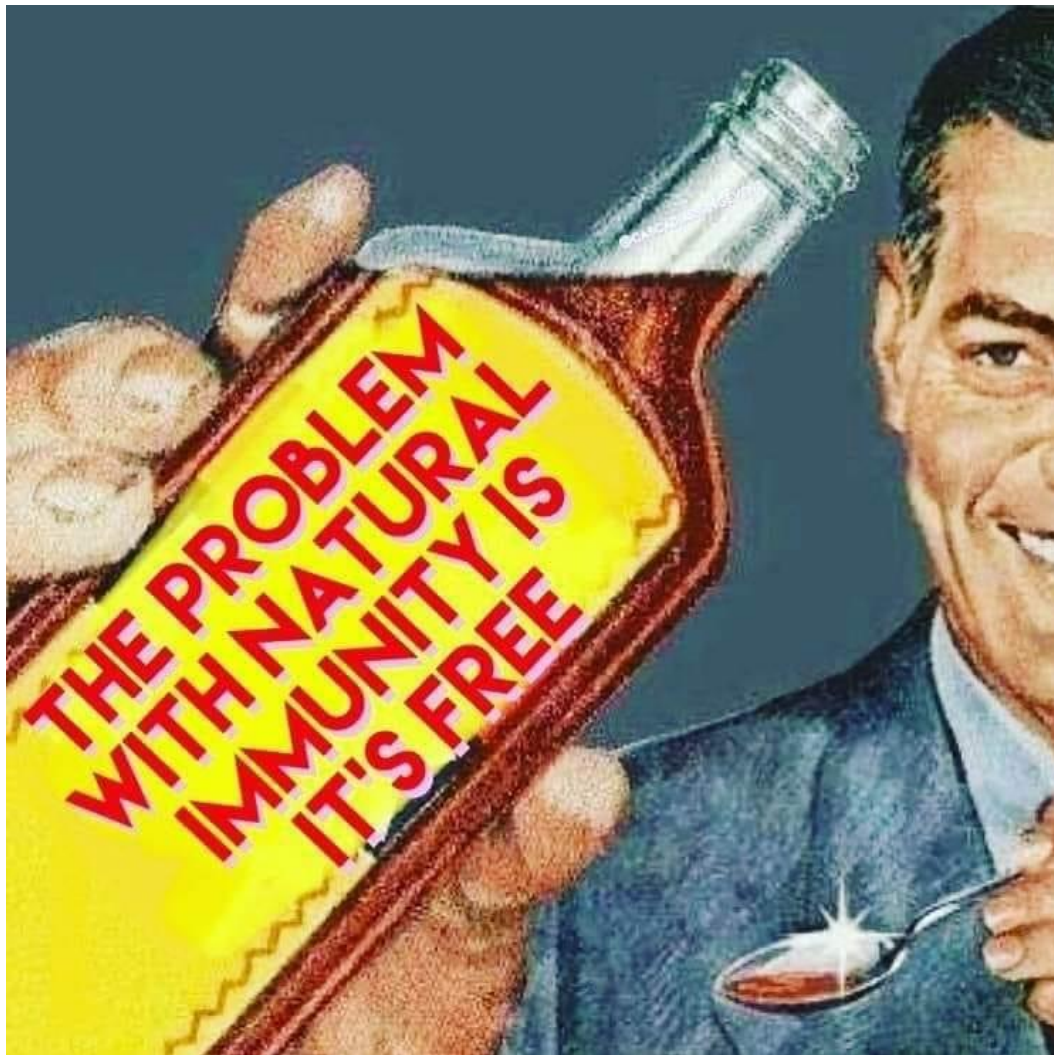
[Small Needles, Short Lines and Few Tears: Biden's Plan to Vaccinate Young Children](#)

Katie Rogers
New York Times
October 19, 2021

[Psaki says Biden not wearing mask at restaurant was just 'moments in time that don't reflect overarching policy'](#)

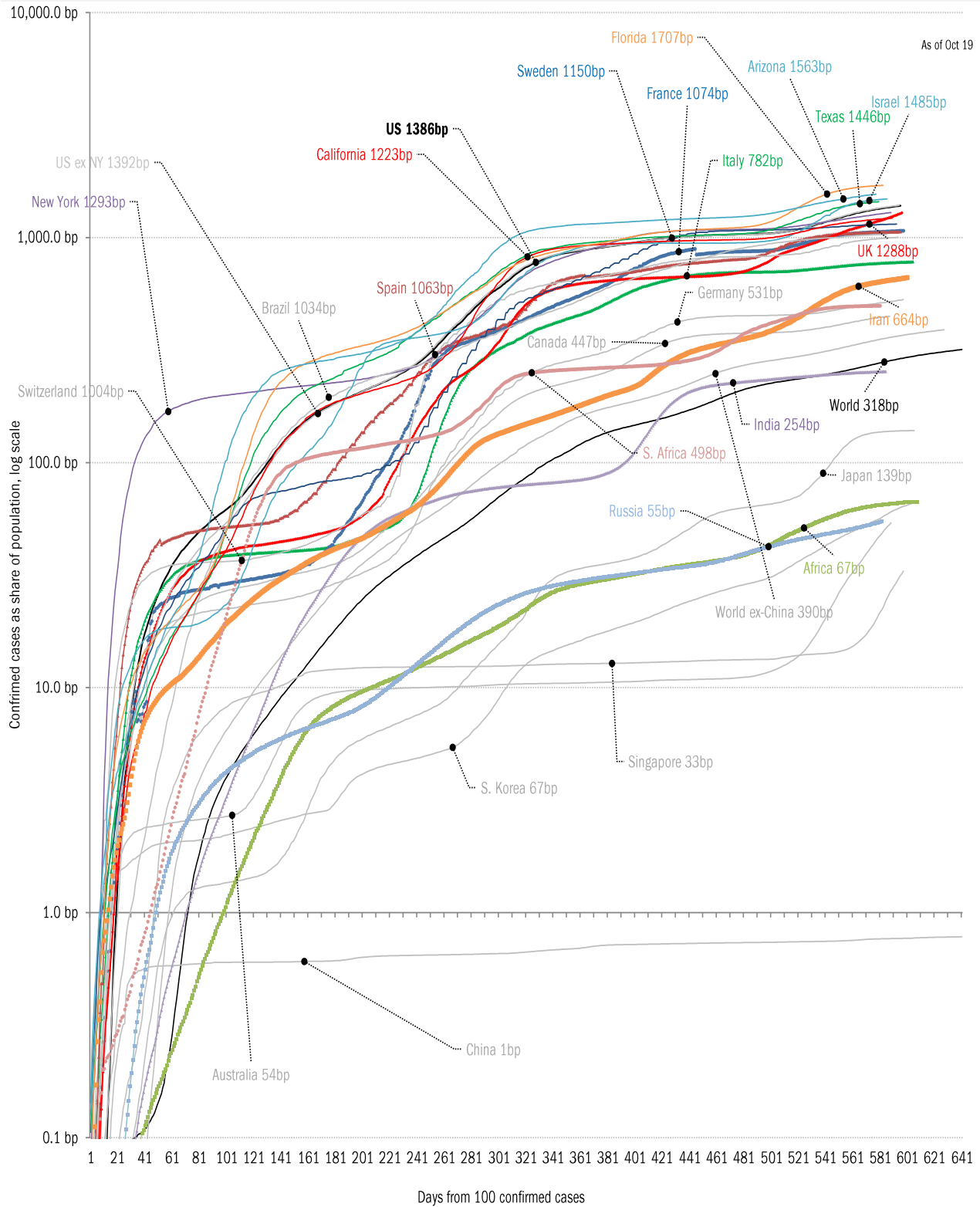
Steven Nelson
New York Post
October 18, 2021

Meme of the day



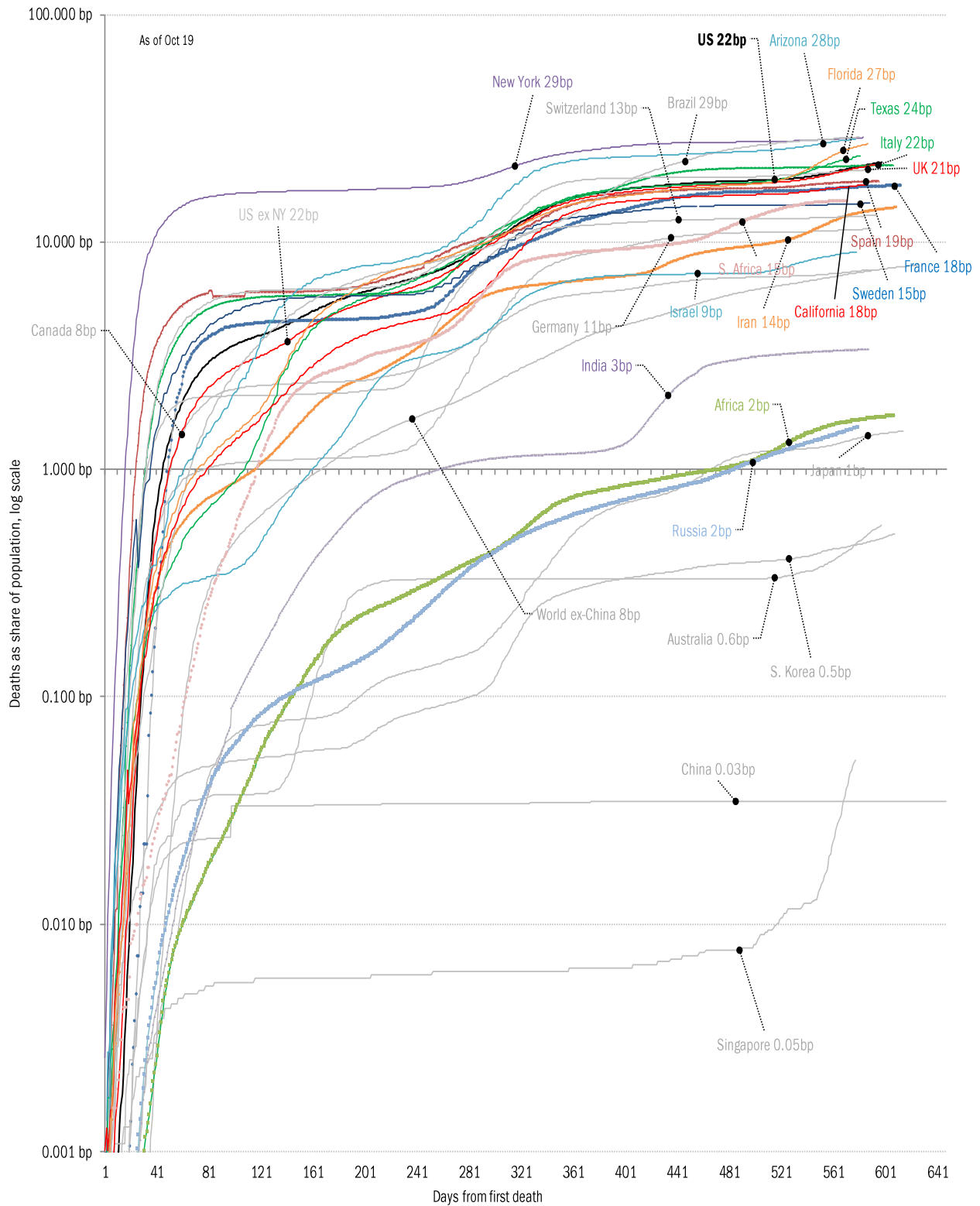
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

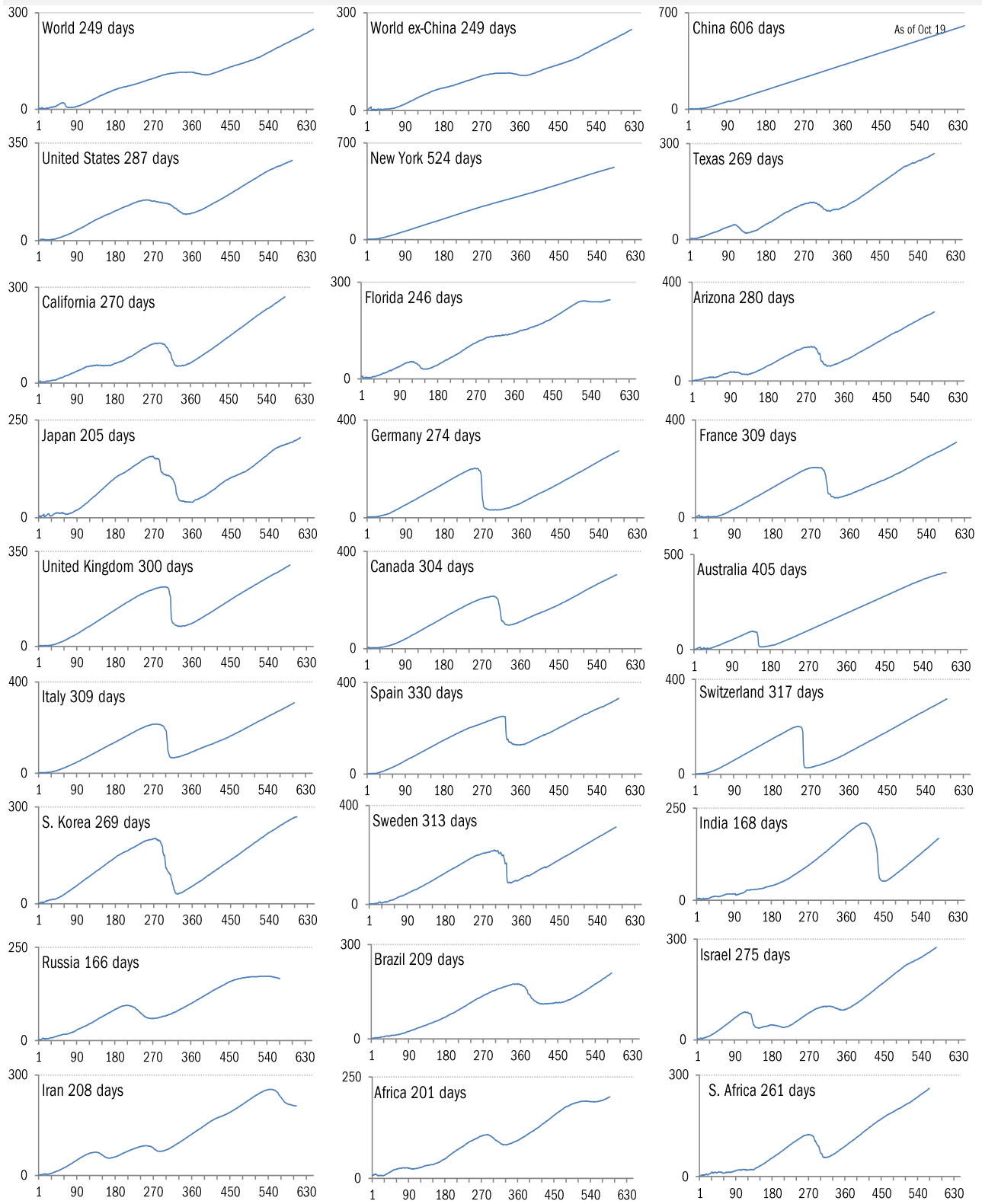


Source: [Johns Hopkins](#), TrendMacro calculations

"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

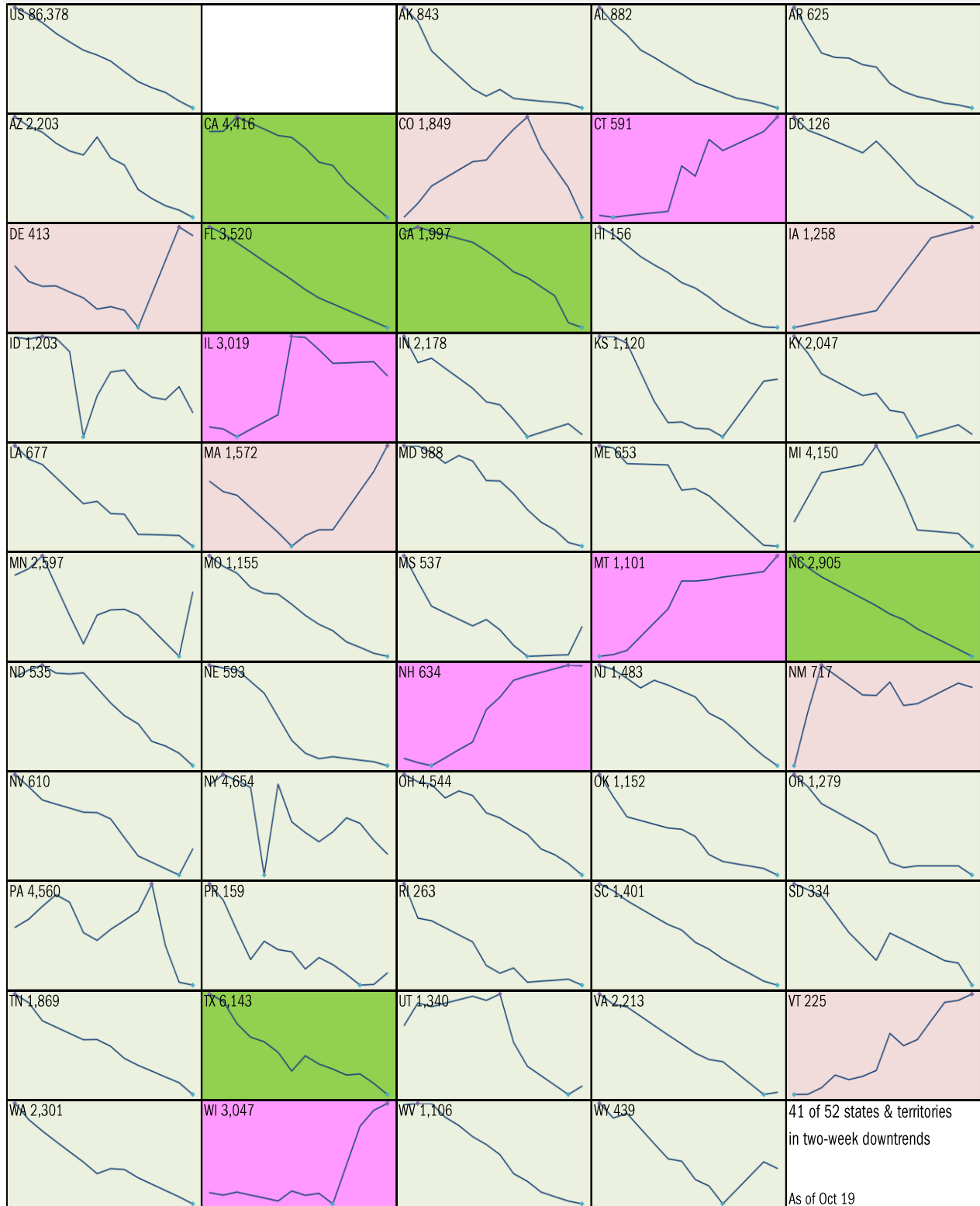


Source: [Johns Hopkins](#), TrendMacro calculations

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

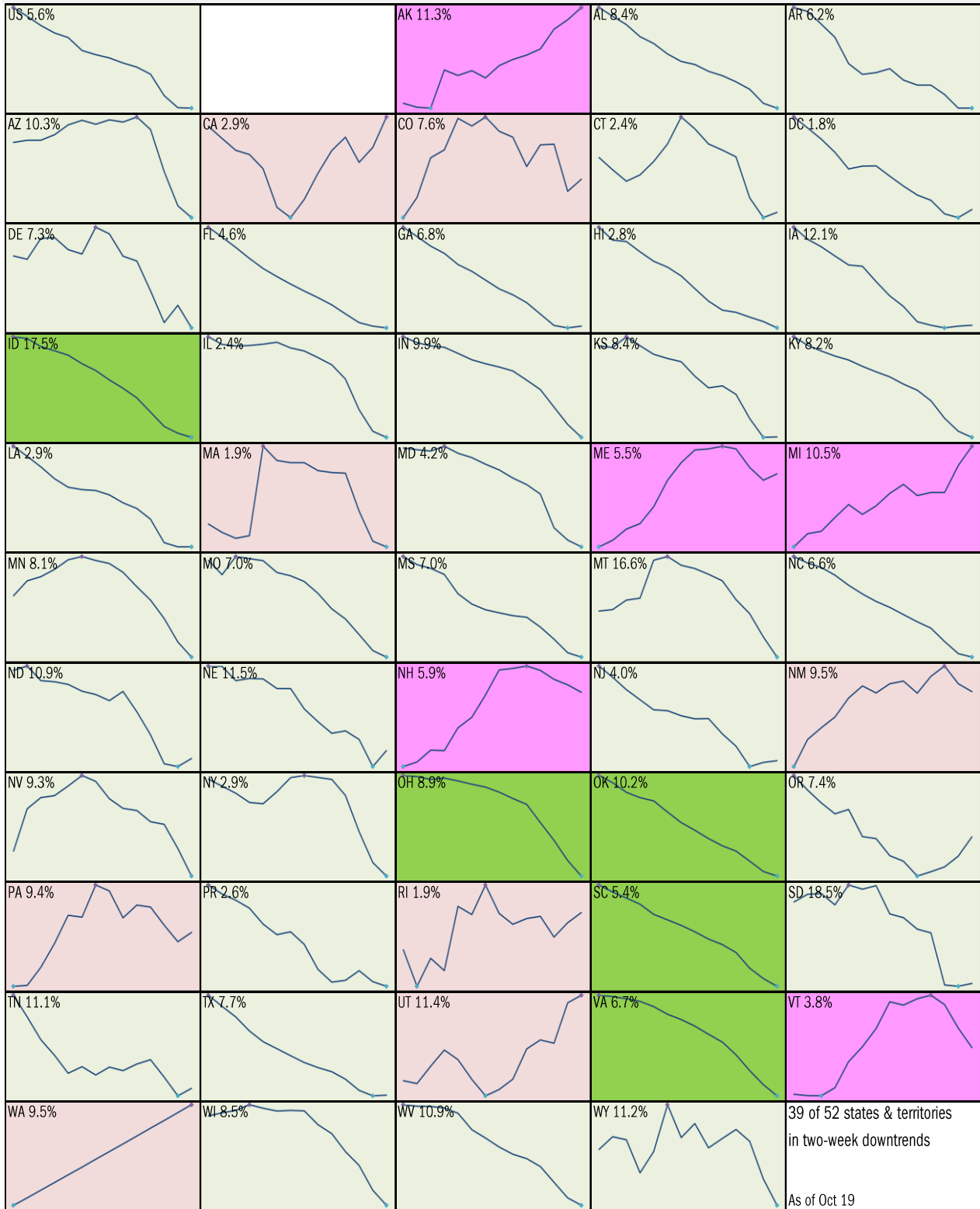


Source: [Johns Hopkins](#), TrendMacro calculations

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

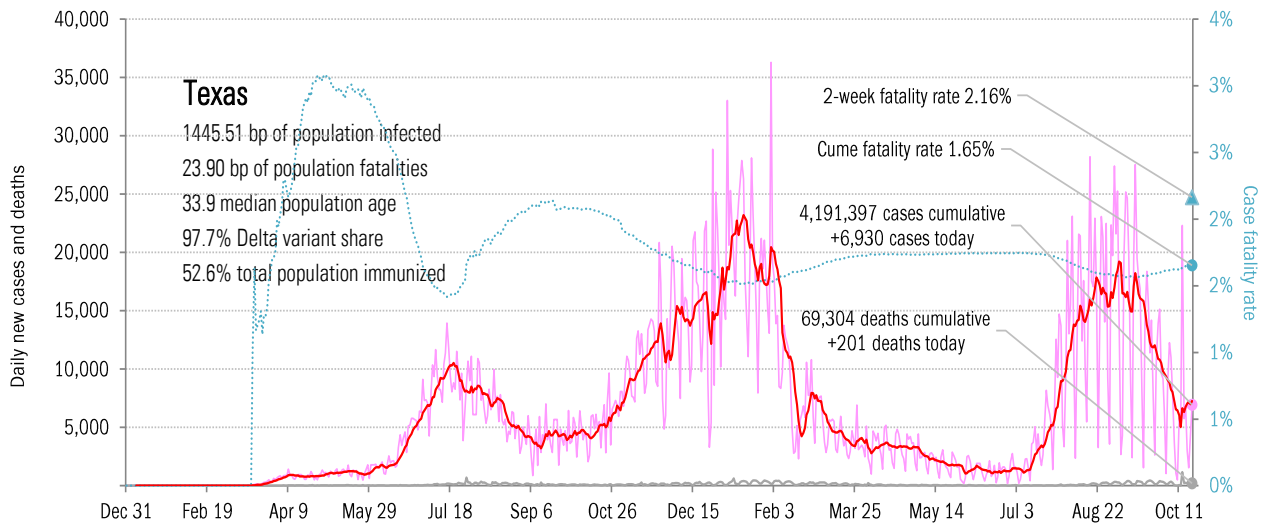
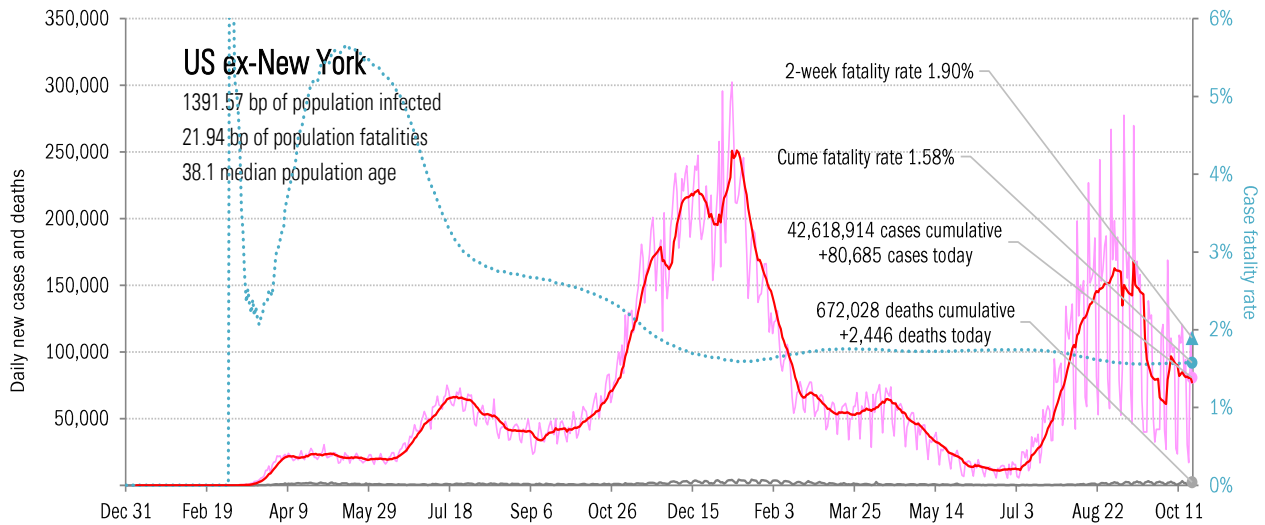
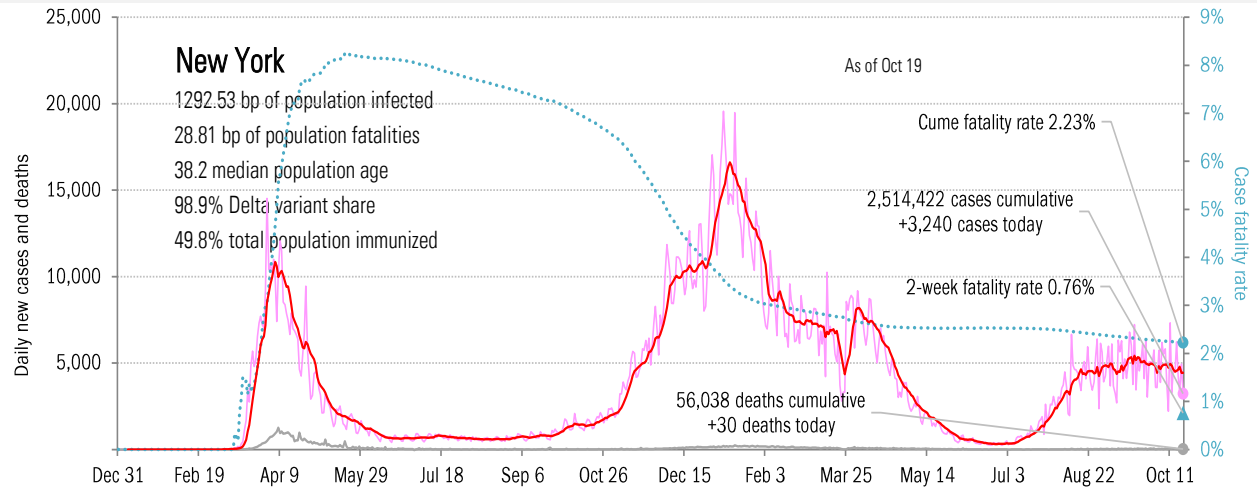
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

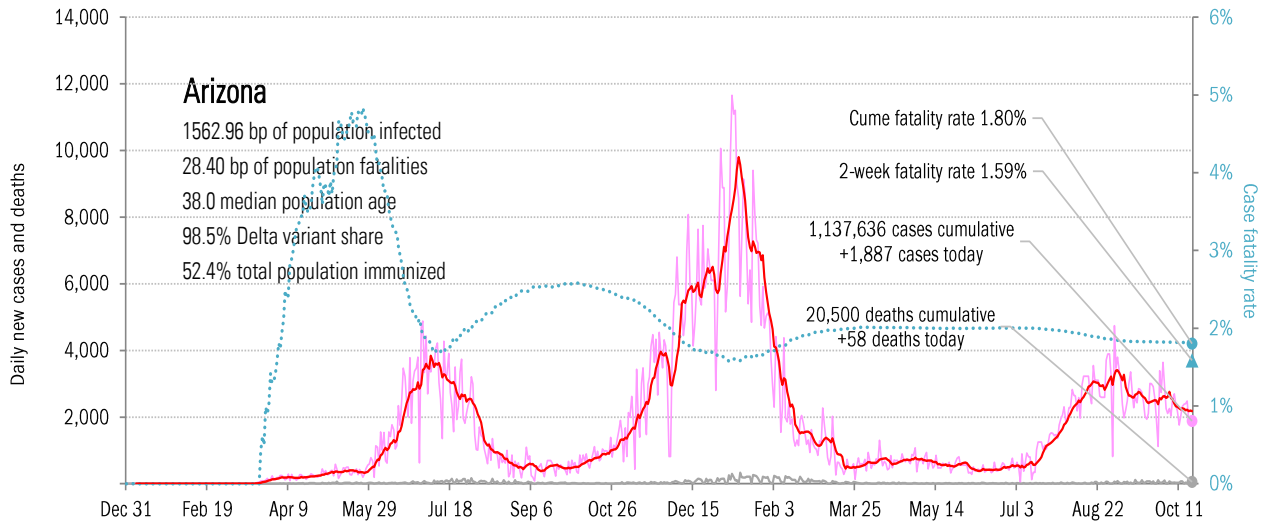
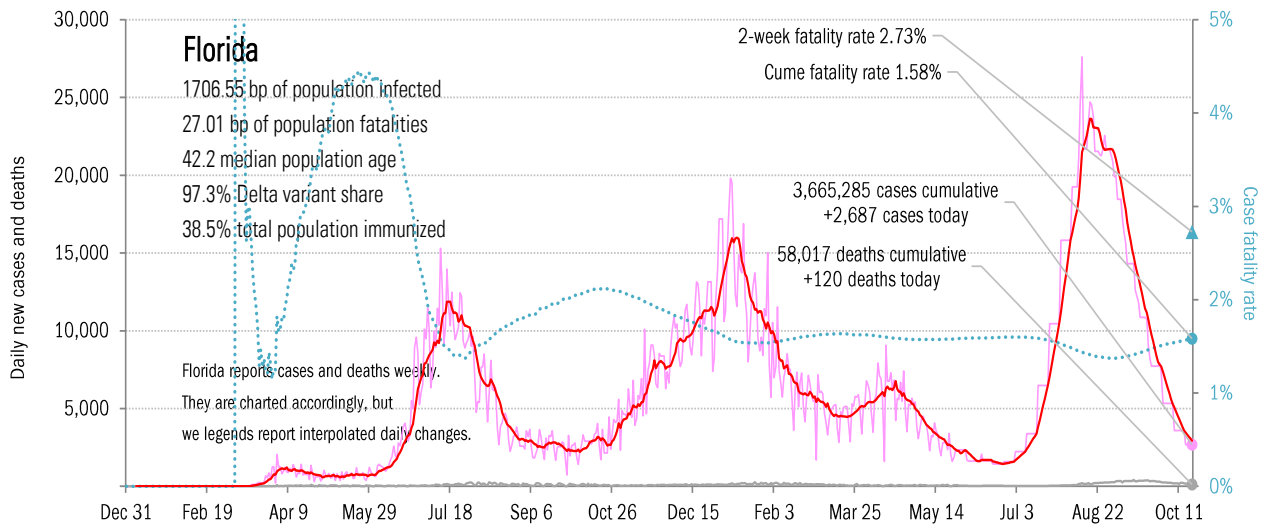
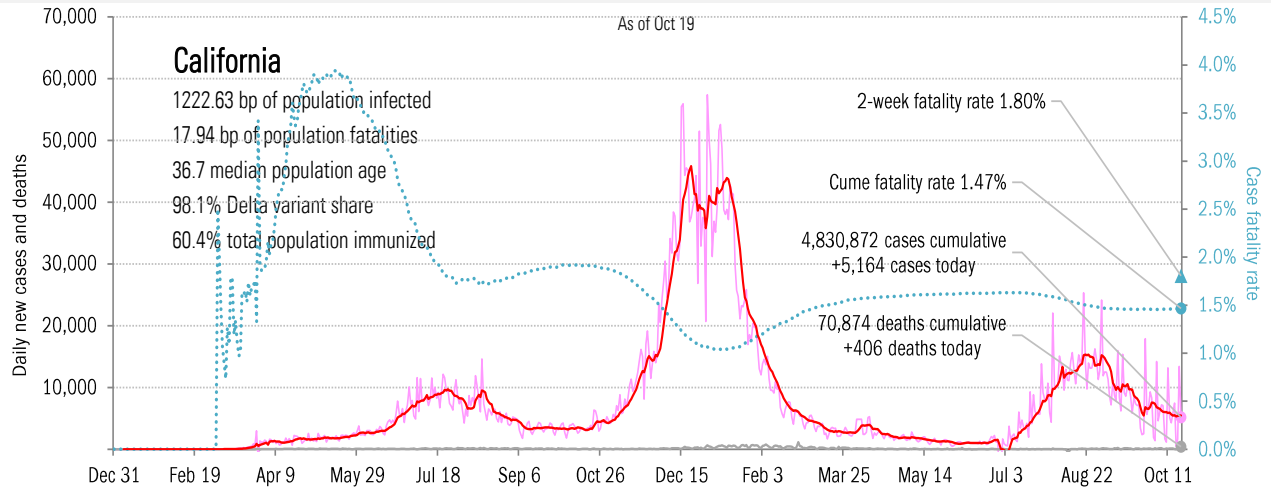
Cases: 7-day average and daily Deaths: Daily



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

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

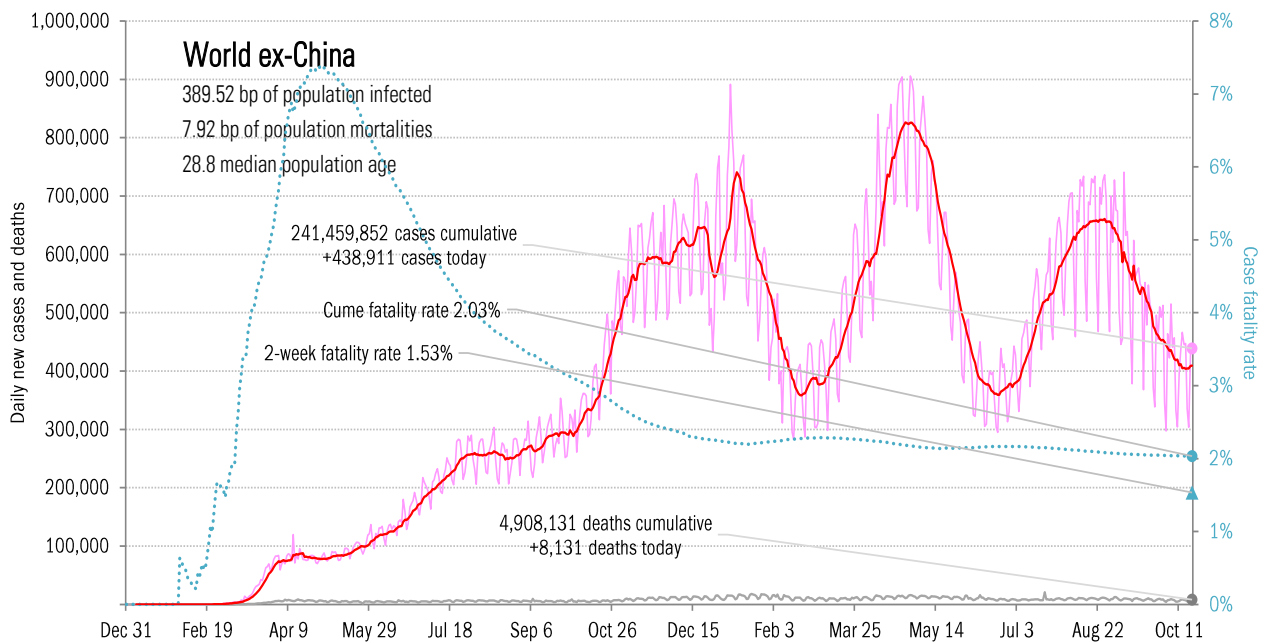
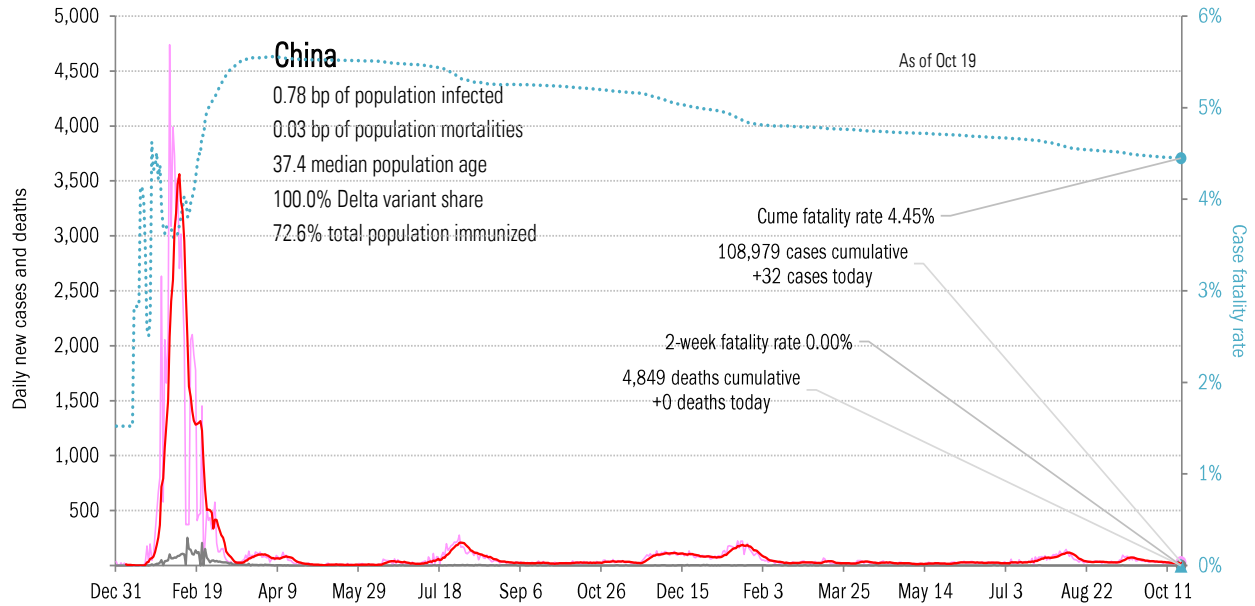
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

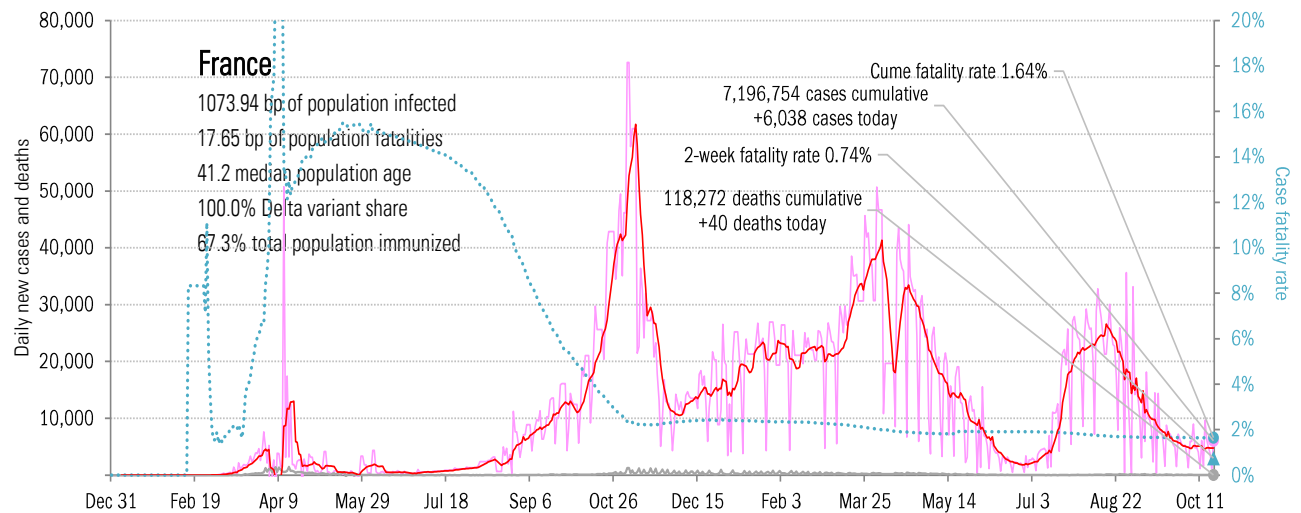
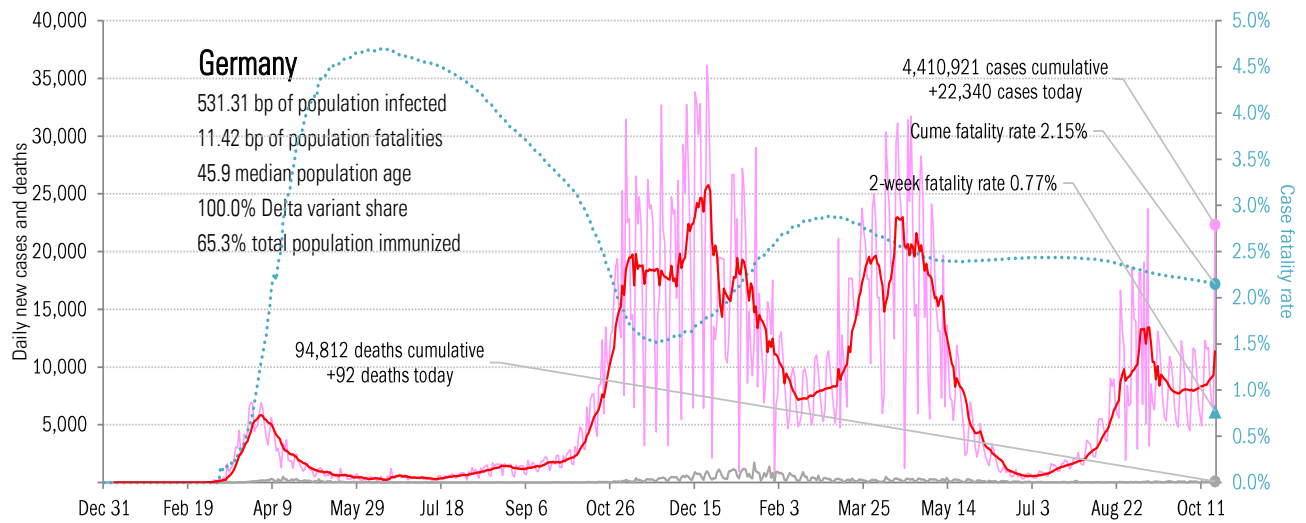
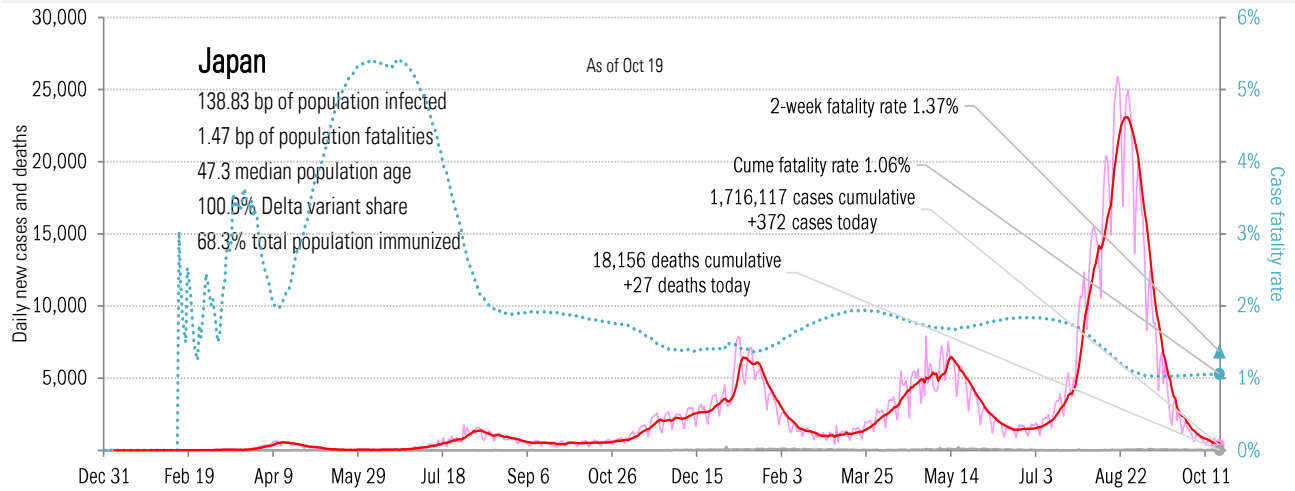
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

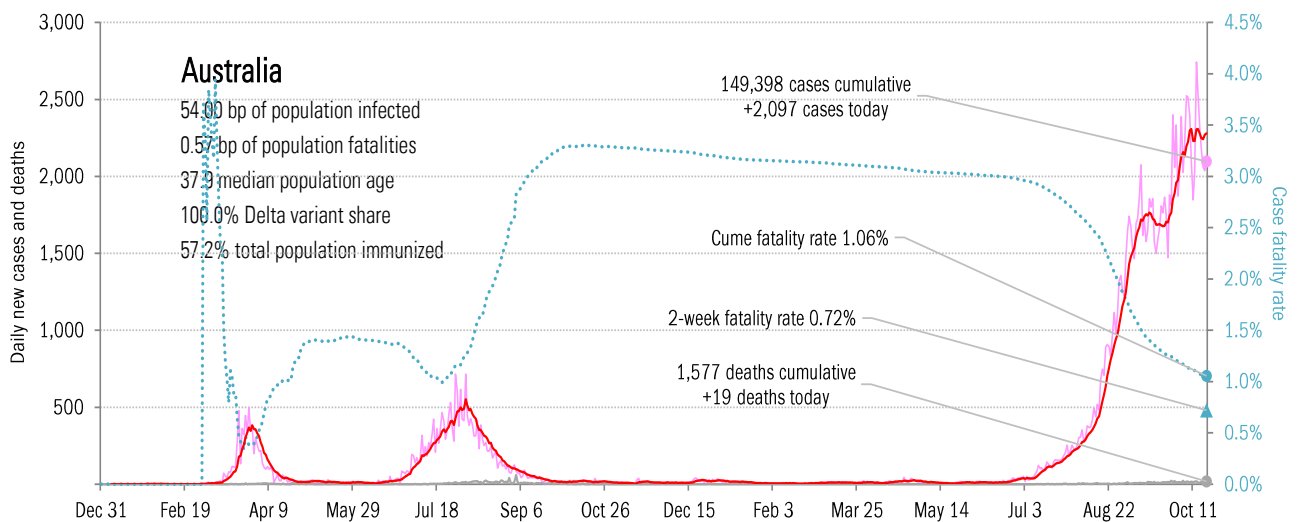
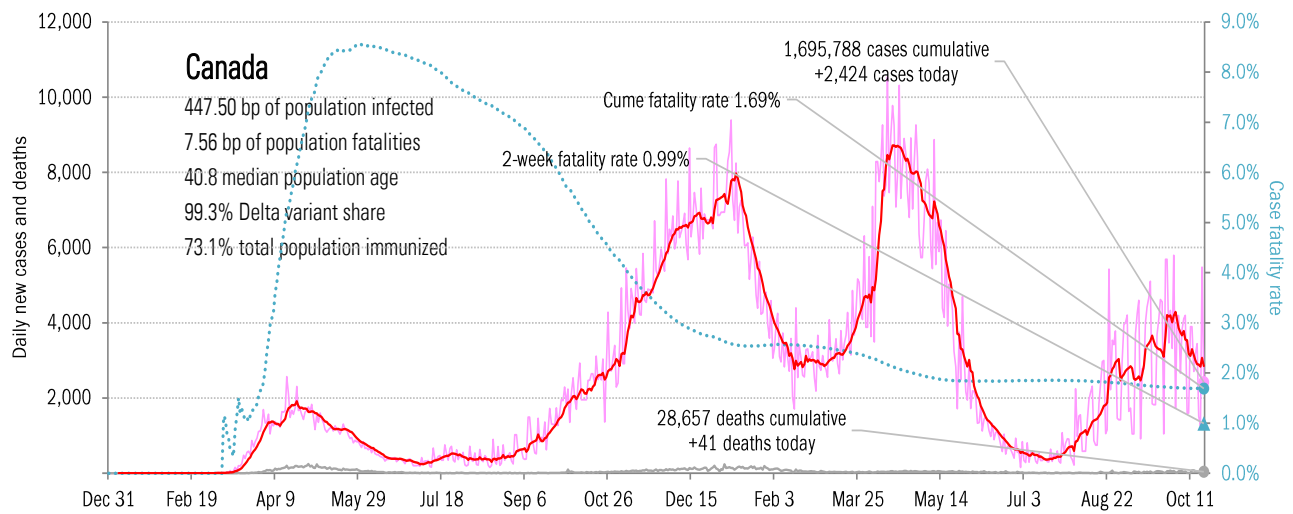
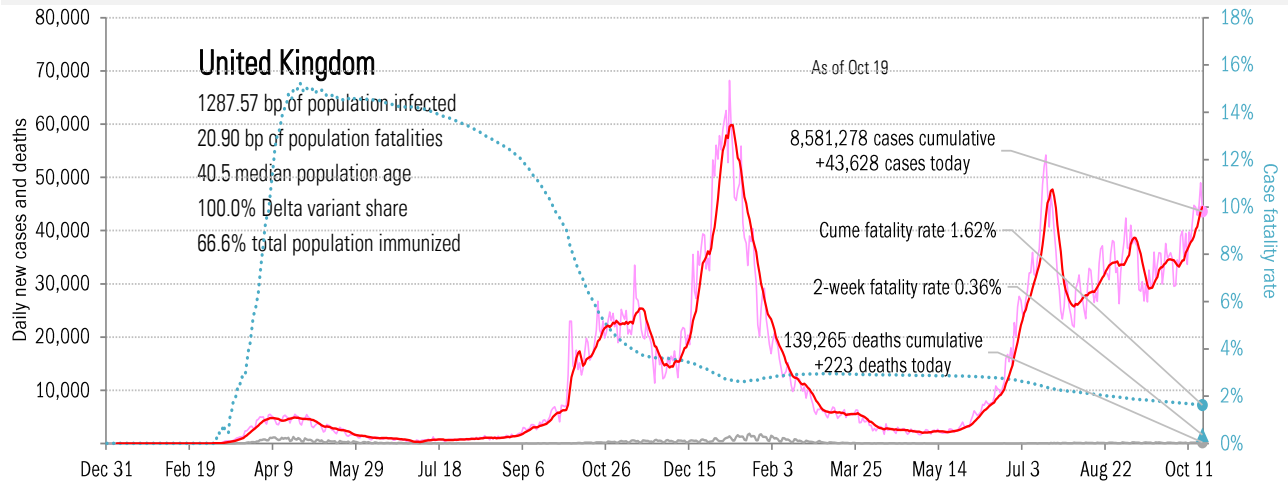
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

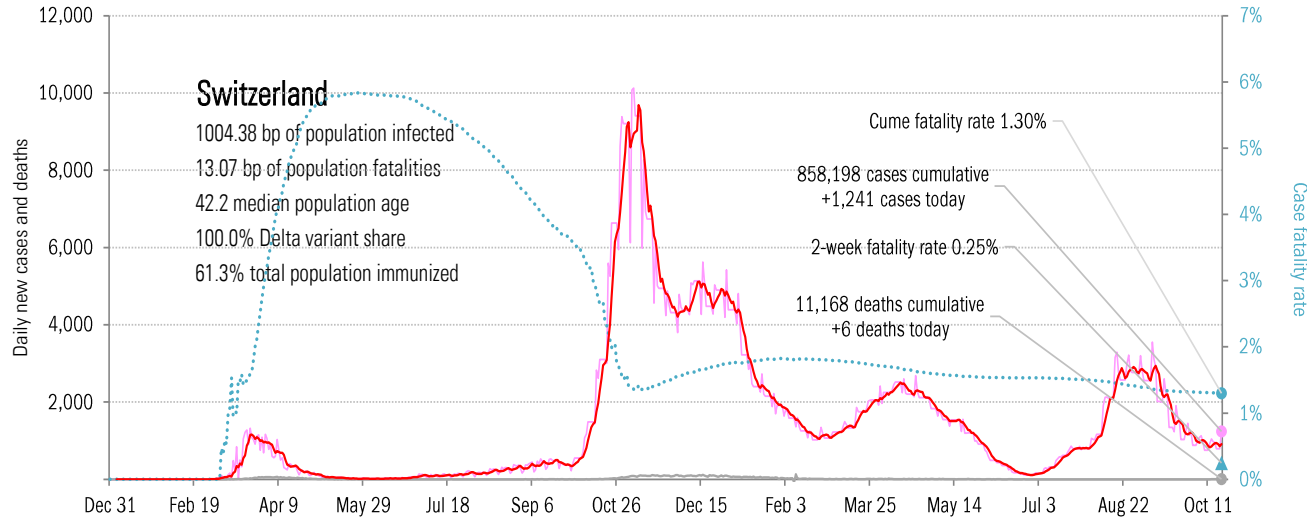
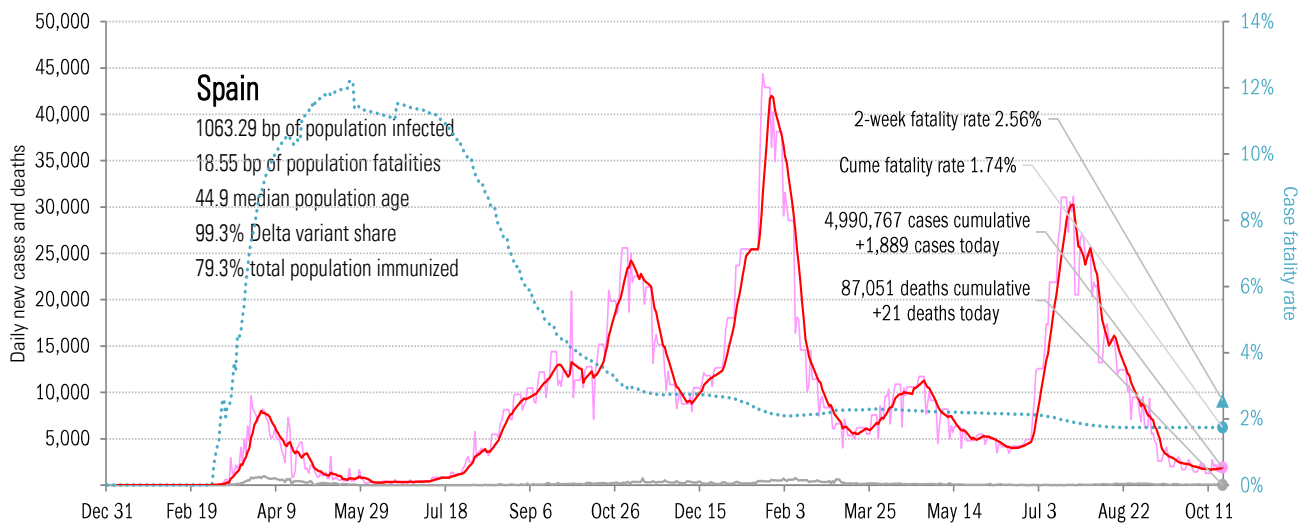
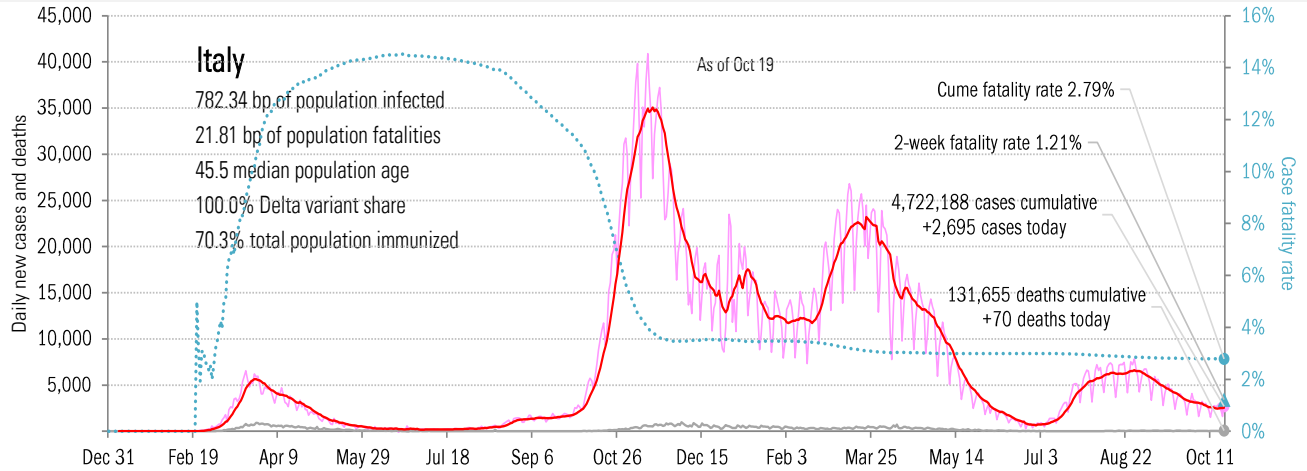
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

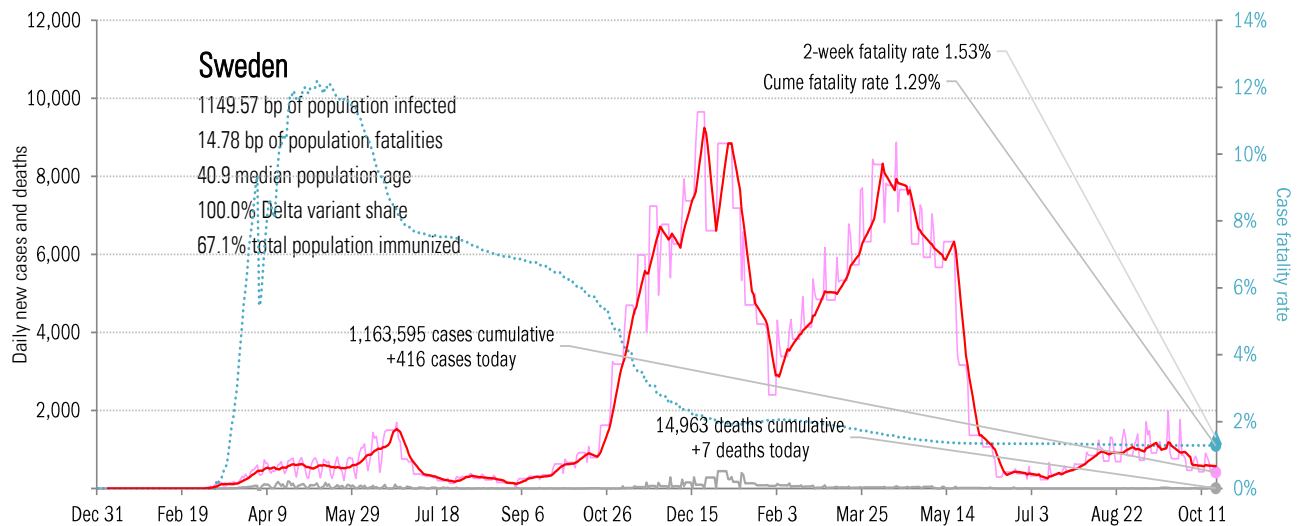
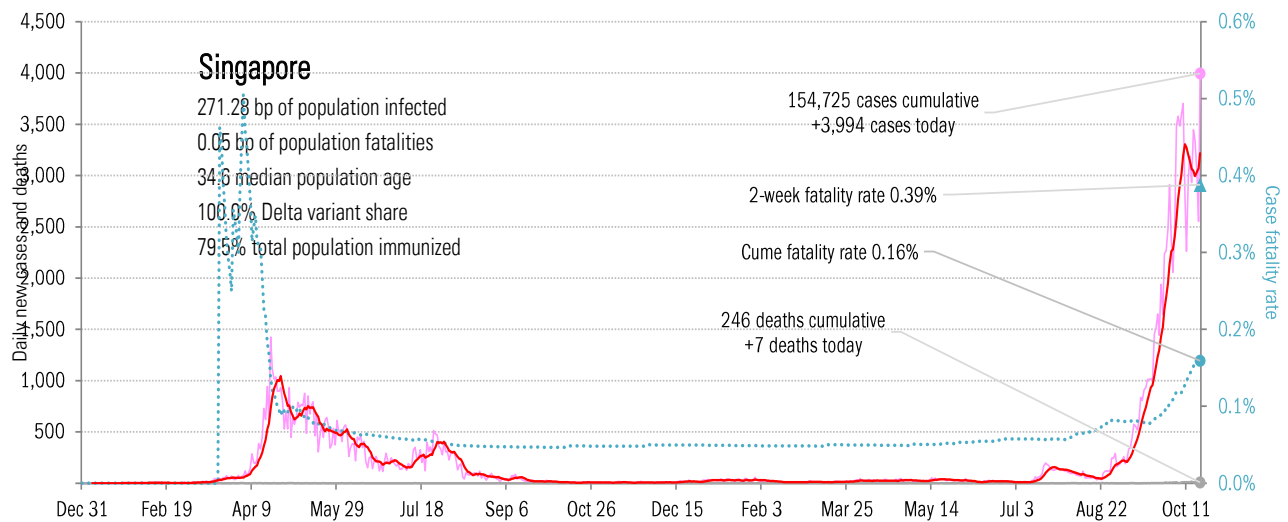
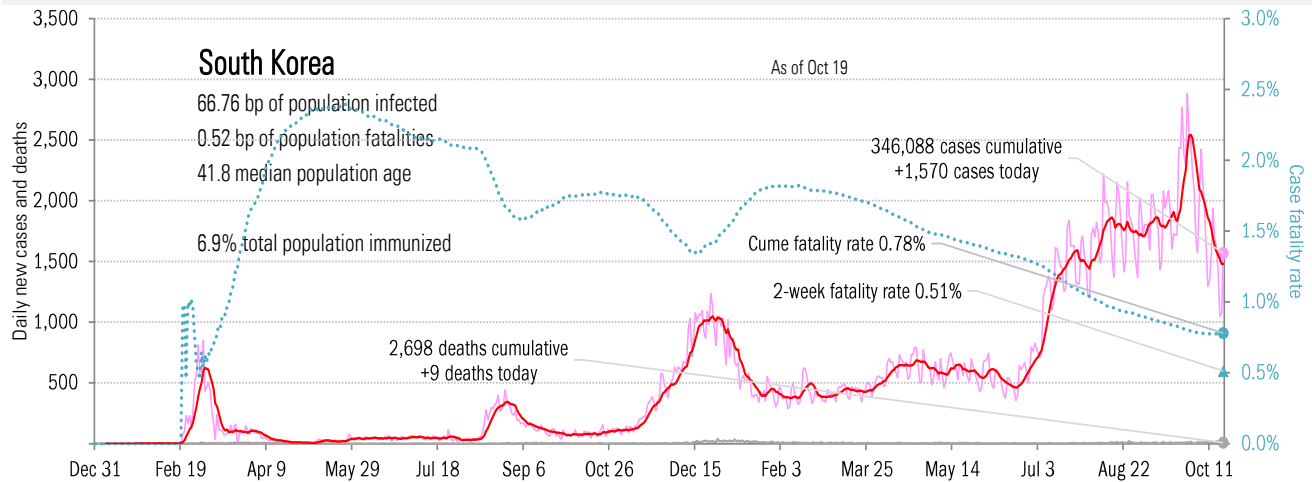
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

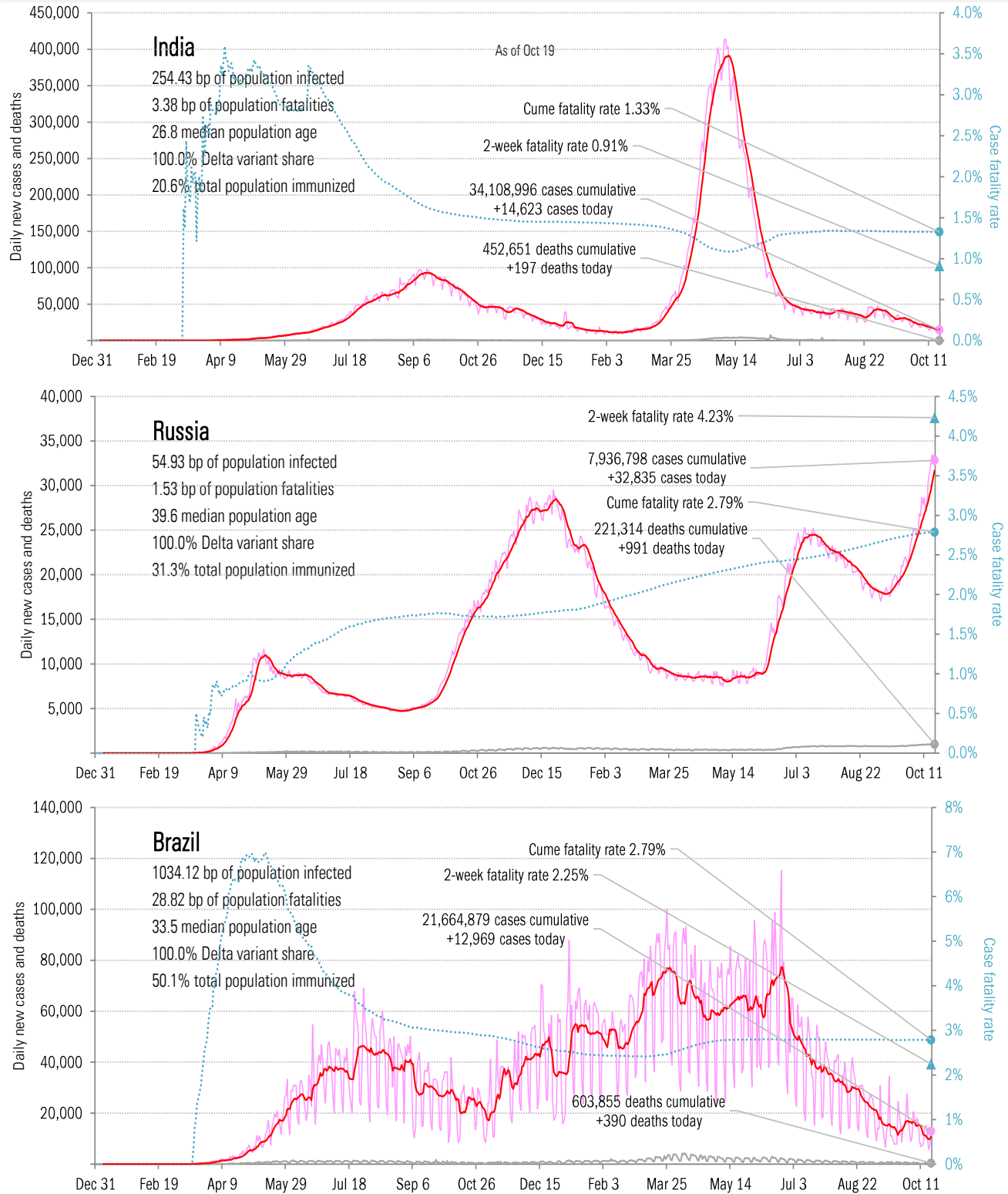
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

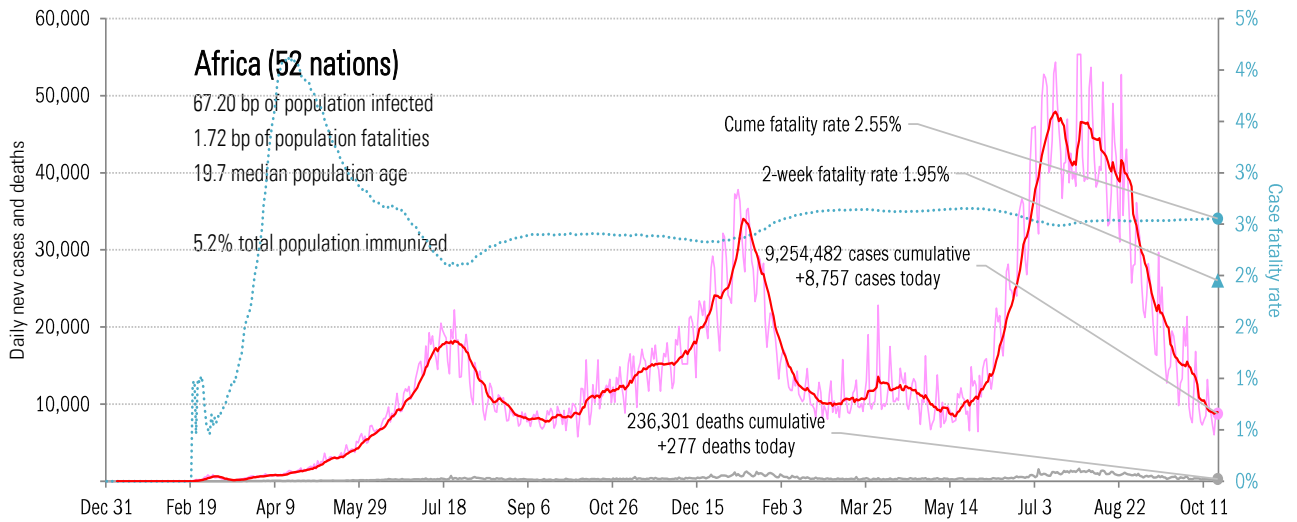
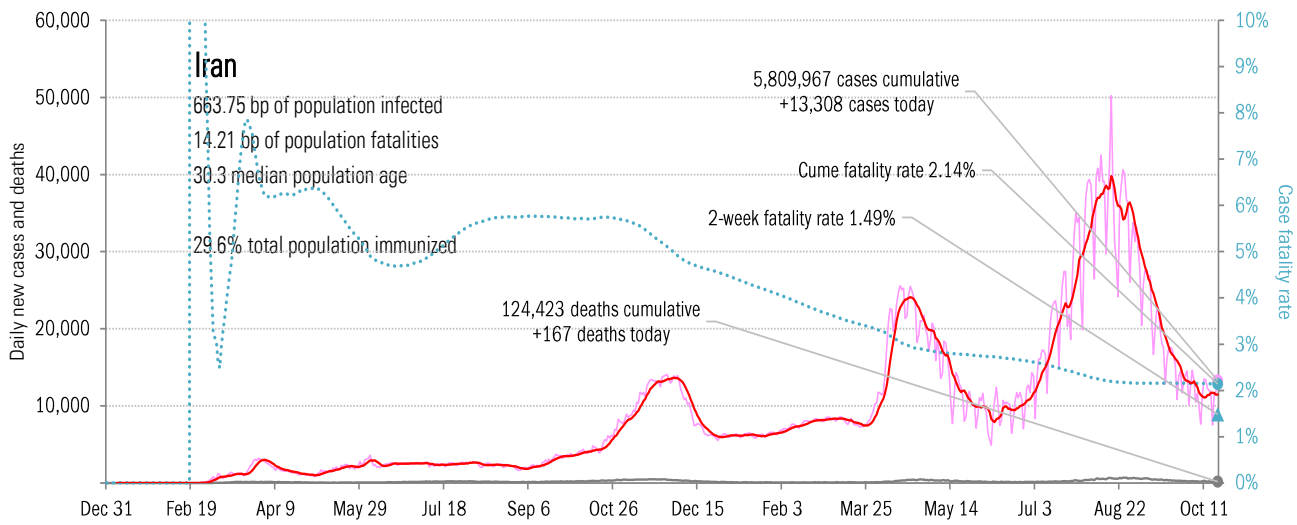
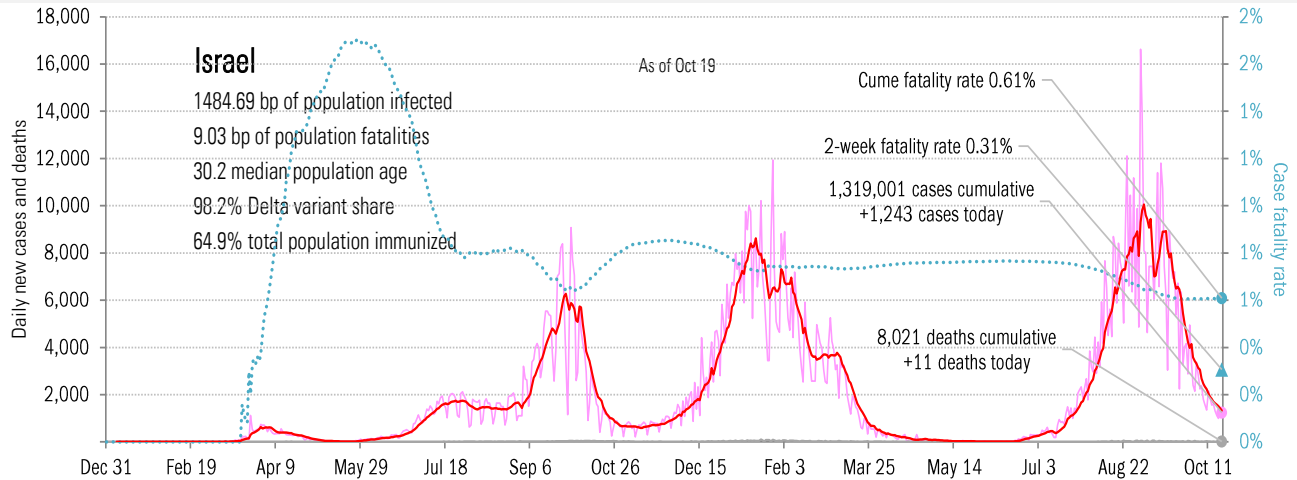
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

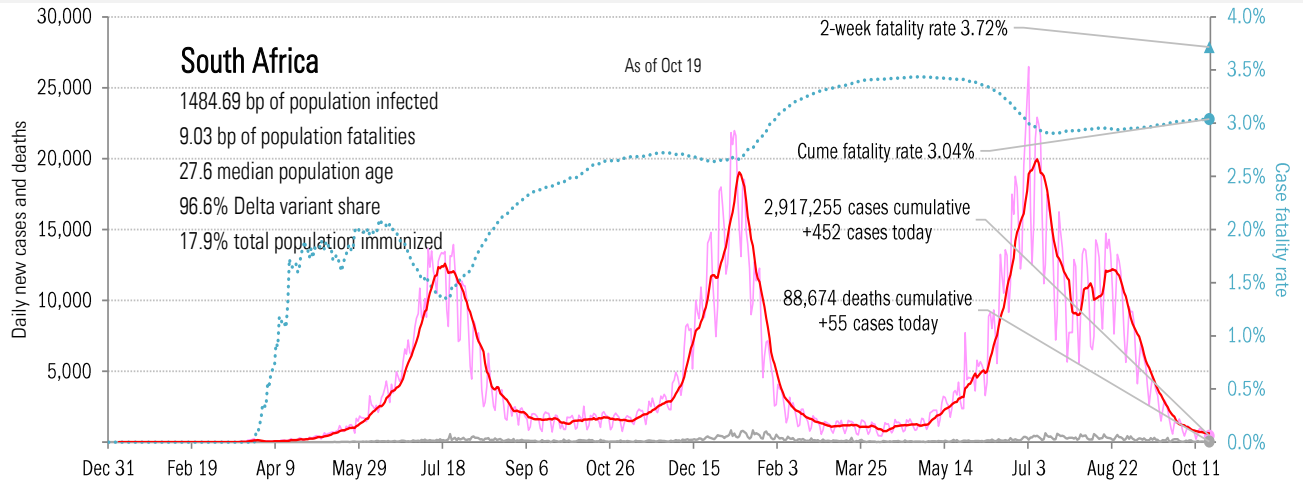
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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