

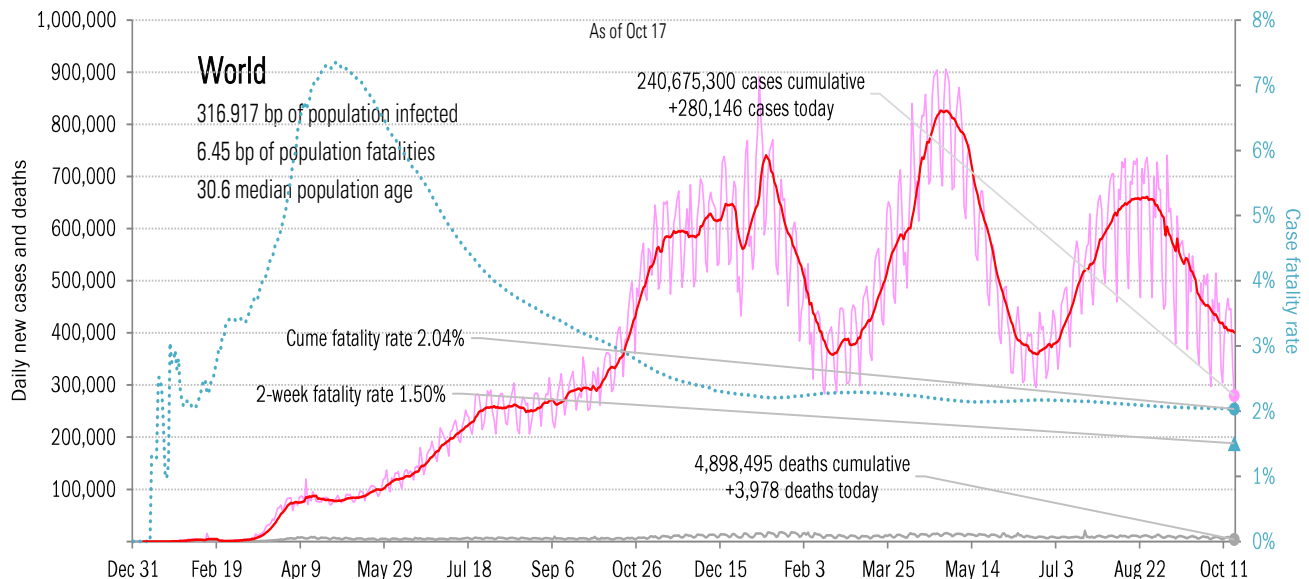
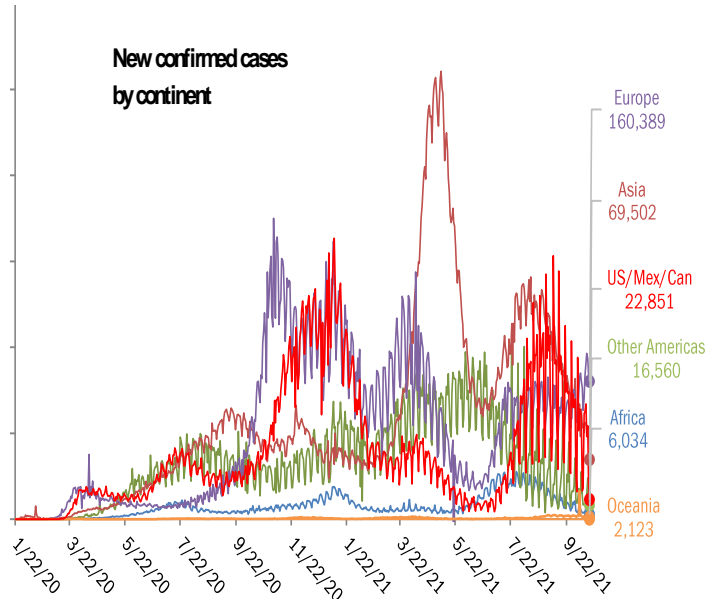
Data Insights: Covid-2019 Monitor

Monday, October 18, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United Kingdom	+44,803	Russia	+980
Russia	+33,428	United States	+334
United States	+19,600	Romania	+299
India	+13,596	Ukraine	+236
Ukraine	+12,163	Iran	+199
Romania	+11,546	India	+166
Iran	+11,396	Brazil	+130
Thailand	+10,863	Philippines	+95
Philippines	+6,859	Thailand	+68
Germany	+6,766	Guatemala	+64
+171,020		+2,571	
World	+280,146	World	+3,978
Top ten	61%	Top ten	65%



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

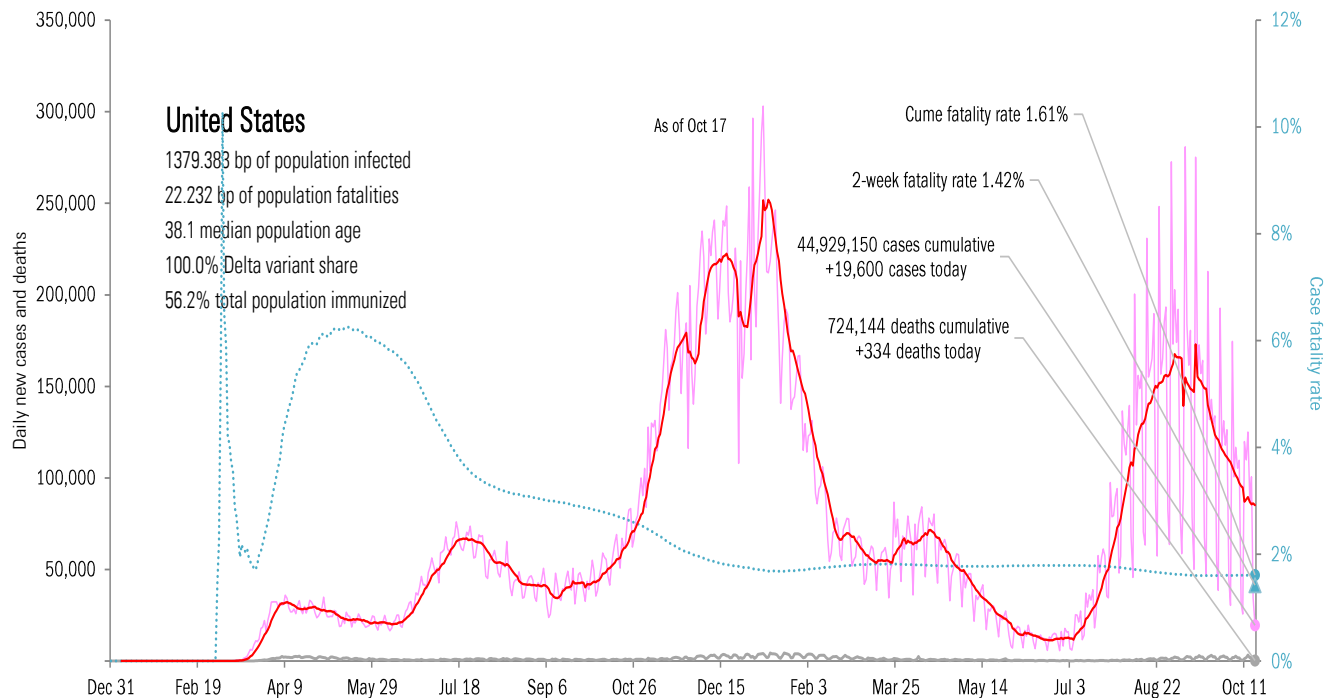
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
PA	+3,375		FL	+170		CA	+62		CA	4,812,309		CA	70,616		TX	369,006		RI	89%	ID	90%
NY	+3,333		TX	+99		NY	+60		TX	4,179,011		TX	69,034		FL	314,846		MA	86%	TX	89%
FL	+2,687		NY	+30		KY	+53		FL	3,659,911		FL	57,686		CA	304,043		MD	84%	CK	89%
CH	+2,515		CA	+12		PA	+43		NY	2,506,247		NY	55,965		NY	160,307		PA	84%	KY	87%
CA	+1,627		HI	+6		IN	+37		IL	1,665,777		PA	30,418		GA	157,054		MN	82%	GA	87%
NJ	+896		AR	+5		MN	+37		GA	1,615,699		IL	27,840		CH	118,582		MI	81%	AL	87%
MD	+871		MD	+5		NJ	+27		PA	1,509,486		GA	27,774		PA	112,217		MO	81%	NM	87%
WV	+859		NJ	+5		IA	+23		CH	1,496,675		NJ	27,725		KY	109,433		NY	81%	NV	86%
TX	+851		MO	+2		WA	+20		NC	1,446,881		CH	23,327		IL	102,796		CT	81%	NH	84%
MO	+699		AK	+0		VA	+19		TN	1,263,068		MI	22,969		MI	87,660		WA	80%	MI	83%
+17,713			+334			+381			24,155,064			413,354			1,835,944						
All states	+19,600			+334			+376		All states	44,929,150			724,144			3,272,689		All states	70%		67%
Top ten	90%			100%			101%		Top ten	54%			57%			56%		Median	76%		79%

Some states not reporting

Five most improved US states

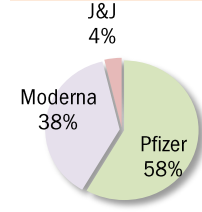
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
WI	-5,285	TX	-113	MI	-36	PA	+30 bp
AZ	-2,482	AL	-37	WI	-35	MN	+20 bp
TX	-1,849	NJ	-23	AZ	-34	AK	+10 bp
CH	-1,194	WI	-21	CK	-29	AL	+10 bp
NY	-935	MD	-16	MD	-27	AZ	+10 bp



Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

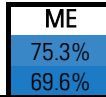
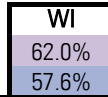
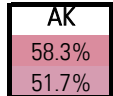
Administered	Cumulative		Today		Immunity	Full	Partial	
Doses	419,758,480		+0.848 million		US	56.2%	65.1%	
	One dose	% Pop	Immune	% pop	New immune today	UK	65.7%	72.4%
Total population	224,128,890	67%	193,895,573	58%	+0.247 million	France	67.1%	75.2%
Age 12 to 17	14,040,527	59%	11,583,132	49%	+0.024 million	Spain	79.2%	81.0%
Age 18 to 64	154,972,560	76%	133,701,304	66%	+0.192 million	Germany	65.2%	68.2%
Age 65 and over	54,019,833	99%	47,711,564	87%	+0.029 million	Italy	70.0%	76.6%
						Australia	55.7%	70.9%
						Israel	64.9%	70.6%
						Canada	72.8%	77.6%
						Japan	67.3%	75.7%
						Africa	5.0%	7.7%
						India	20.2%	49.9%
						Brazil	49.7%	73.1%
						China	72.6%	76.2%



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

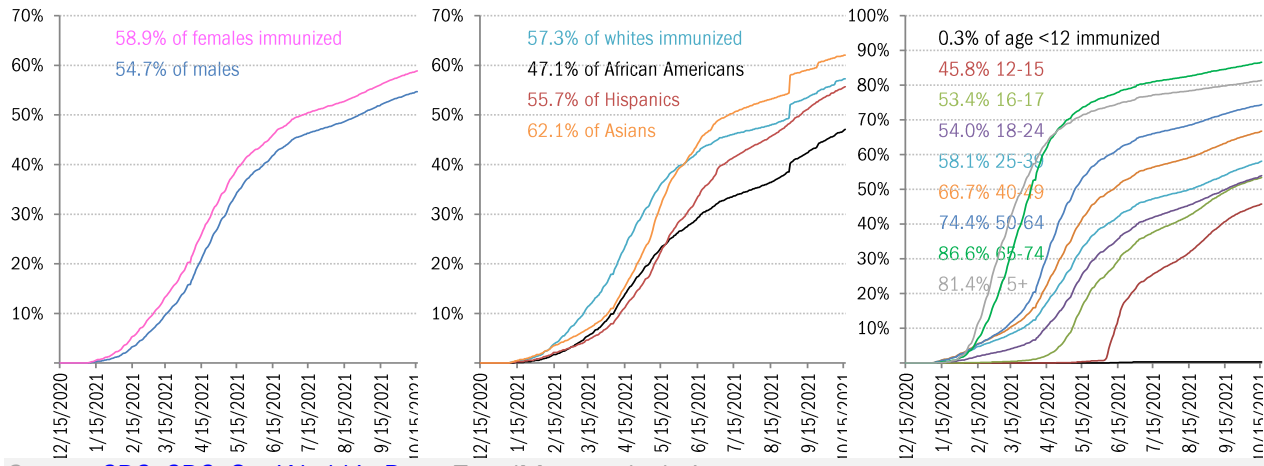


Every American >18 immune in **87 days** by Jan 11, 2022
 70.2% of population >18 immunized
 16.0% previously tested positive
86.2% vs 60% adult herd immunity



WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
68.4%	48.2%	56.0%	52.4%	64.4%	69.4%	57.5%	73.0%	78.8%	72.8%	
62.5%	42.9%	49.6%	45.4%	59.2%	54.4%	53.0%	65.5%	70.5%	62.3%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
67.6%	62.1%	49.8%	60.7%	58.9%	53.1%	55.2%	75.3%	73.9%	78.8%	
62.1%	52.0%	43.0%	52.6%	54.8%	49.3%	51.2%	59.5%	65.6%	68.9%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
73.3%	60.2%	66.7%	60.2%	56.0%	62.1%	48.7%	69.9%	72.0%	77.7%	76.8%
60.3%	52.5%	60.7%	55.6%	49.1%	54.0%	40.8%	62.1%	65.3%	69.9%	69.9%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	60.4%	73.8%	61.2%	56.7%	53.7%	62.1%	56.6%	72.6%	67.9%	
	52.3%	64.3%	52.4%	46.8%	46.8%	51.7%	49.0%	61.4%	59.0%	
			OK	LA	MS	AL	GA			
			58.0%	52.8%	51.3%	53.6%	56.0%			
			49.0%	46.7%	44.9%	44.0%	47.1%			
			TX							
			60.6%							
			52.5%							
								FL		PR
								68.1%		80.5%
								58.8%		72.0%

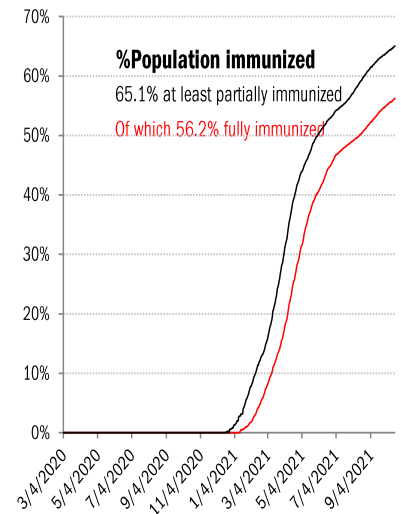
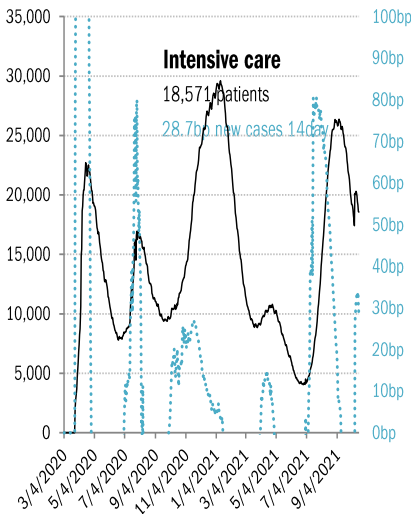
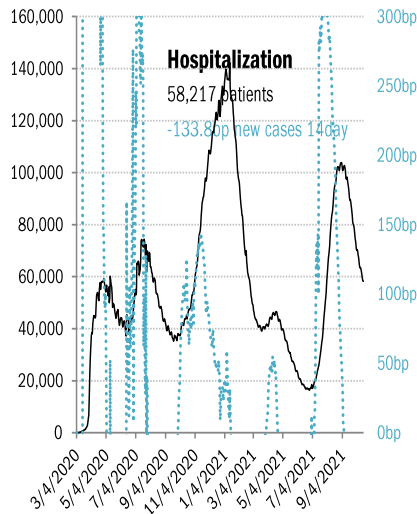
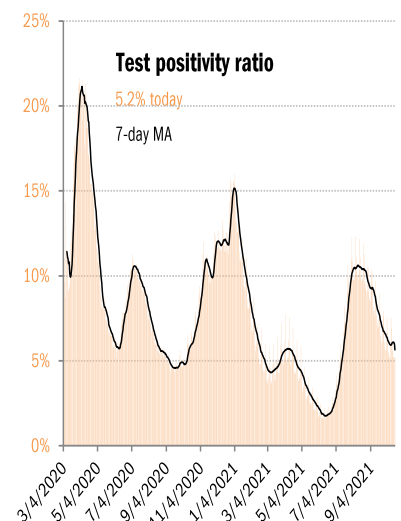
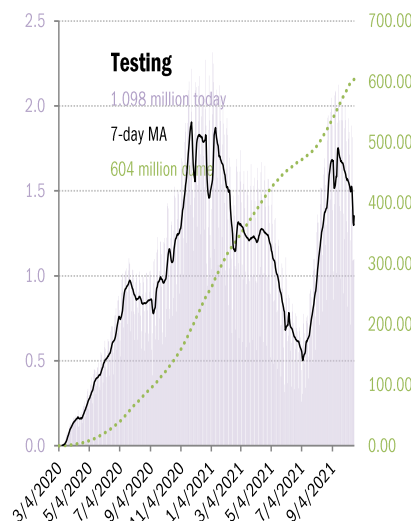
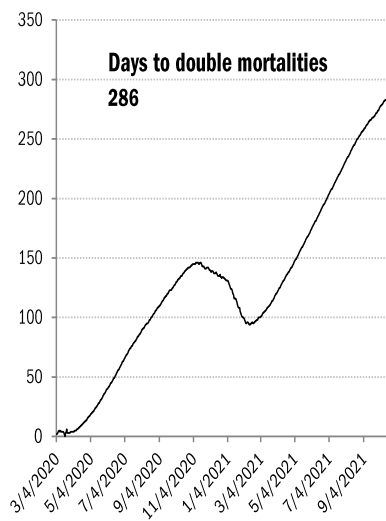
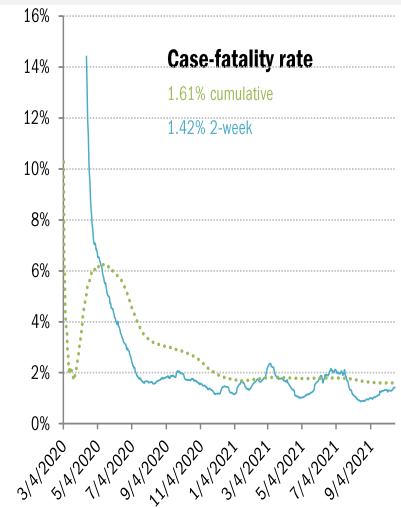
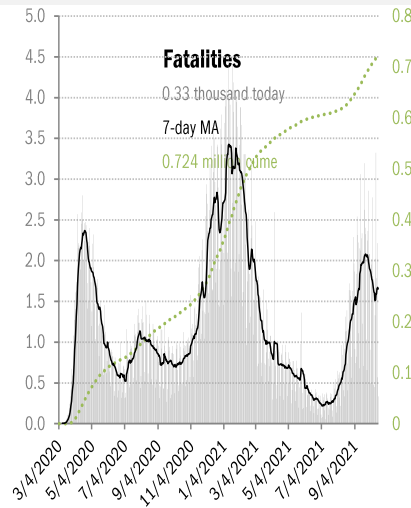
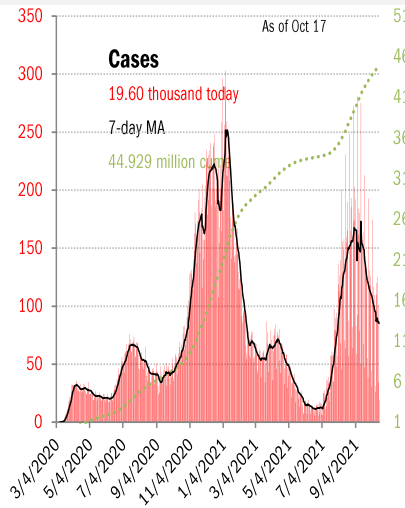
The demographics of US vaccination



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

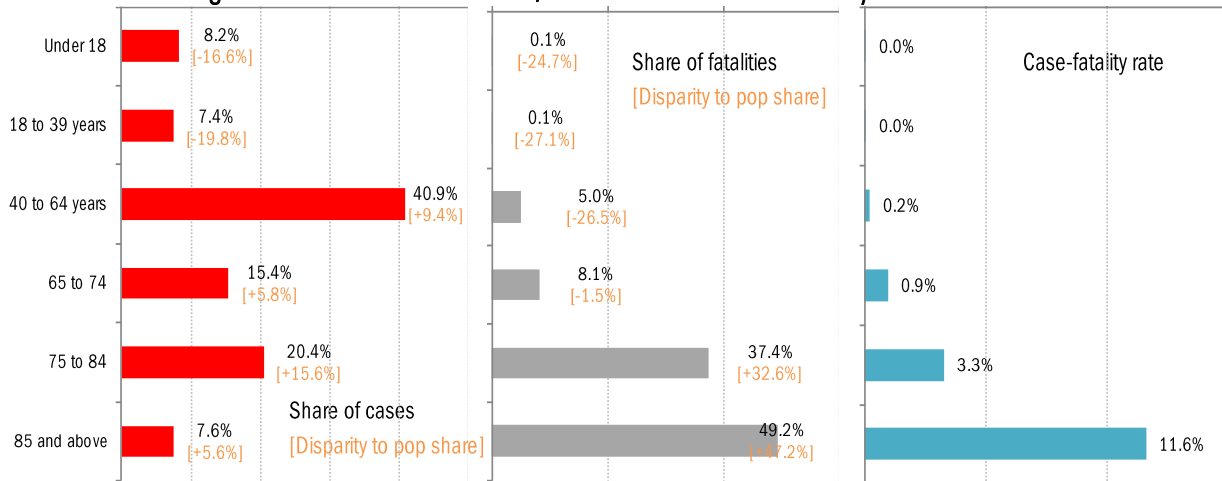
US deep-dive

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

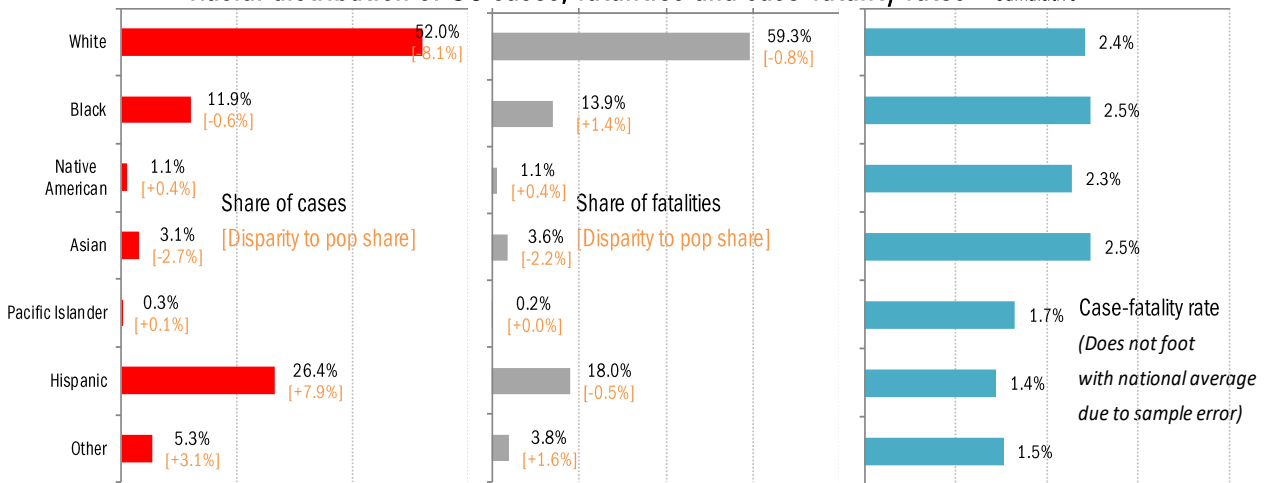


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

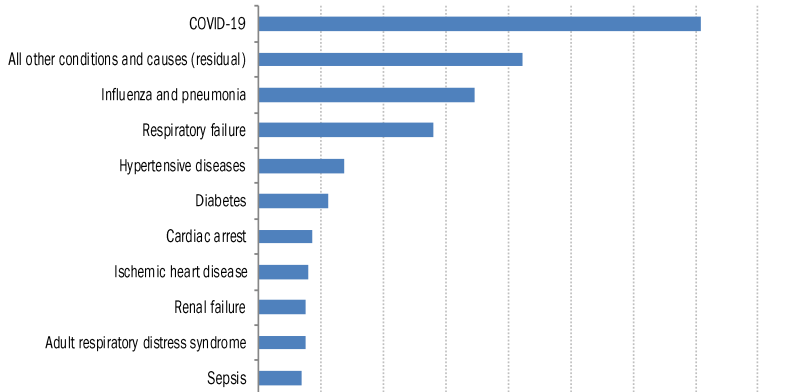


Racial distribution of US cases, fatalities and case-fatality rates



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

[Threats, Resignations and 100 New Laws: Why Public Health Is in Crisis](#)

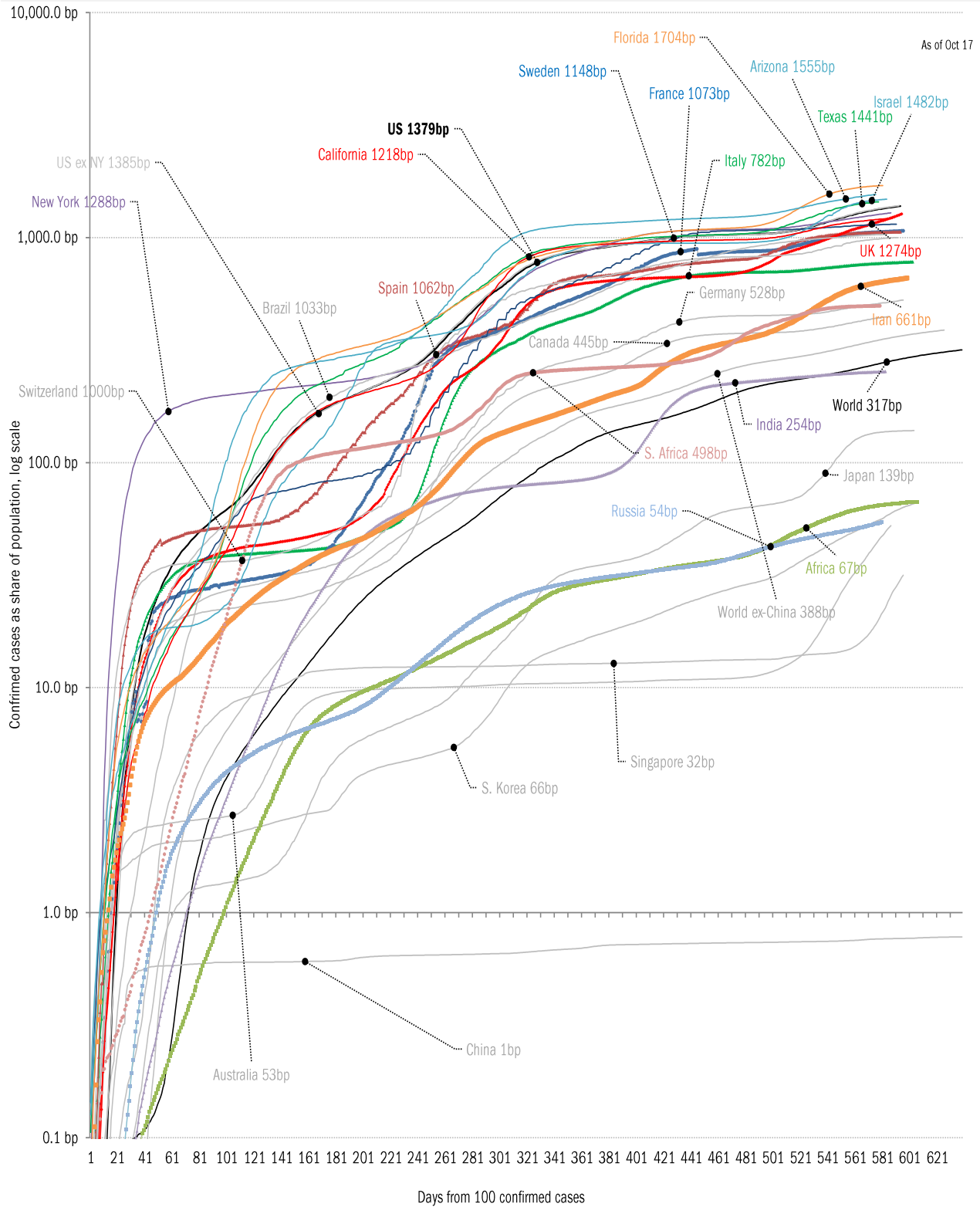
Mike Baker and Danielle Ivory
New York Times
October 18, 2021

Meme of the day



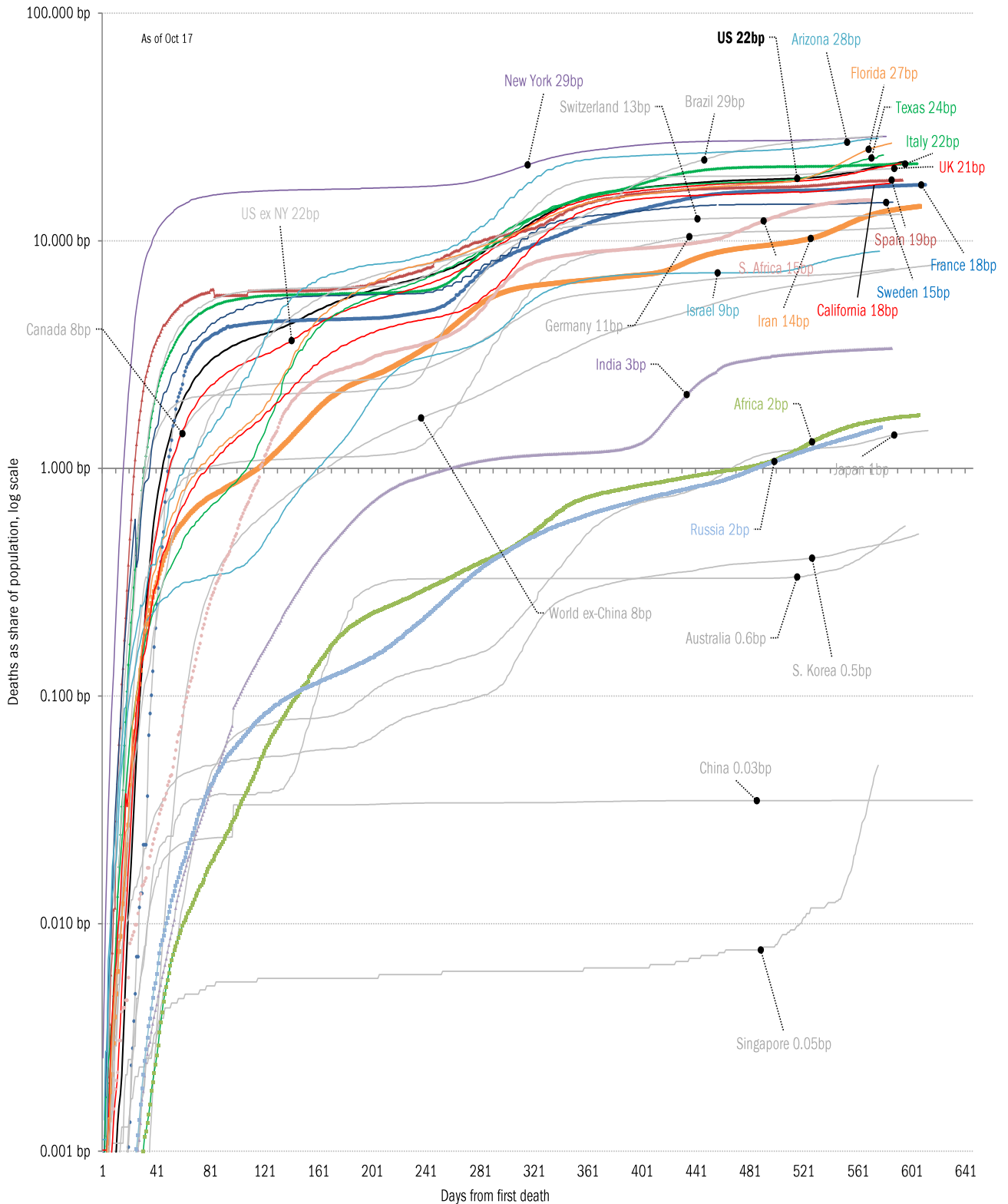
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

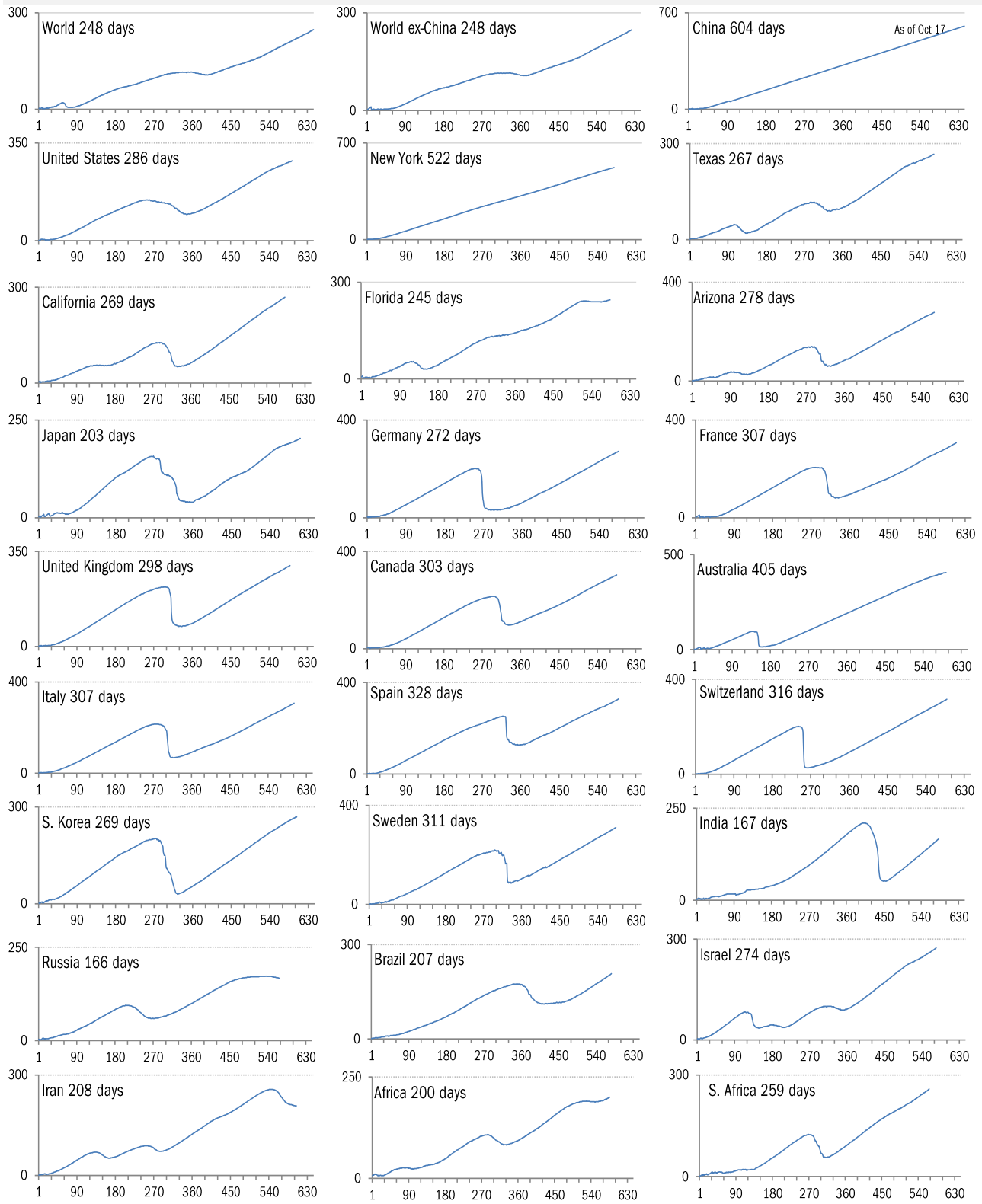


Source: [Johns Hopkins](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

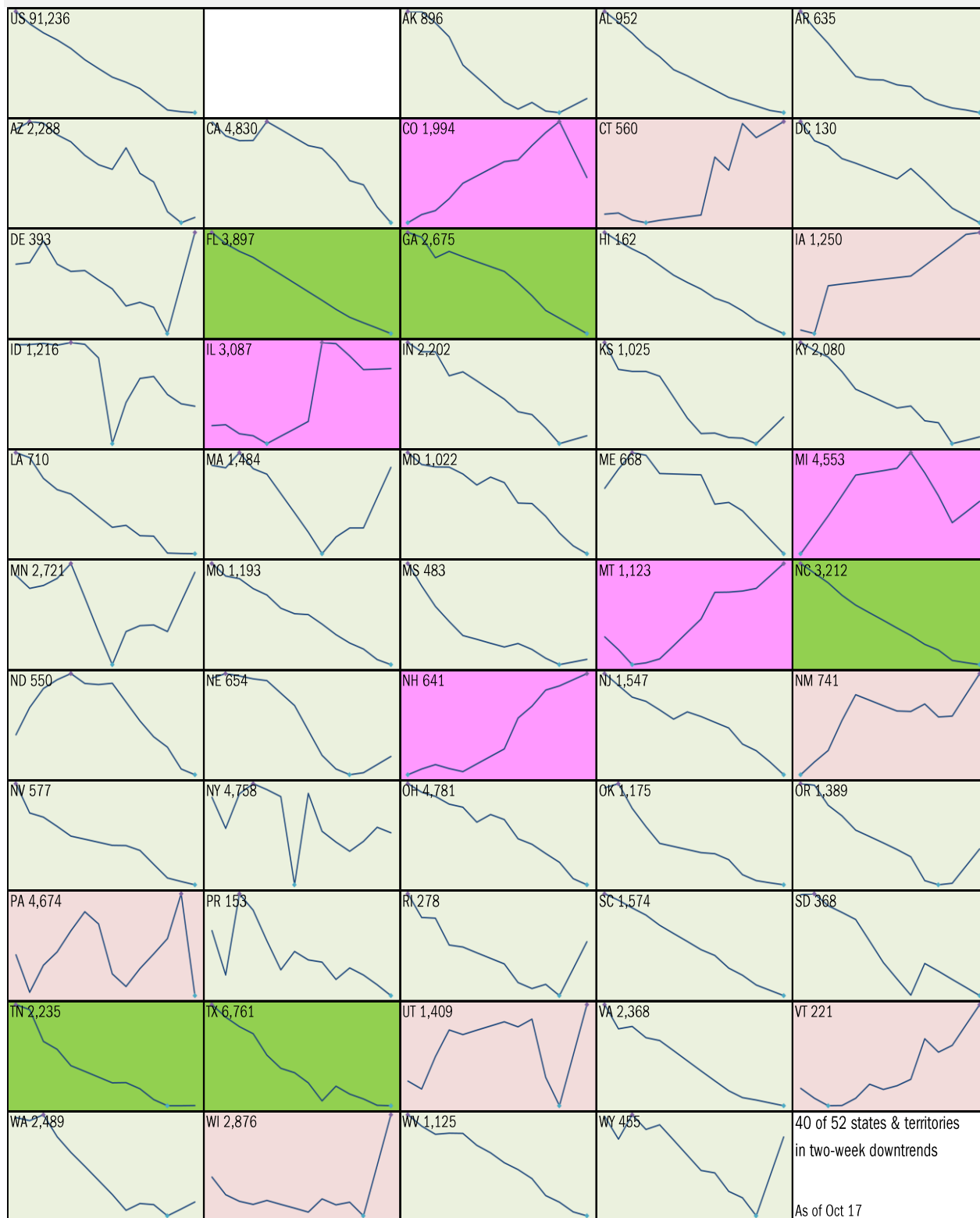
Vertical: days to double deaths Horizontal: days from first death

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

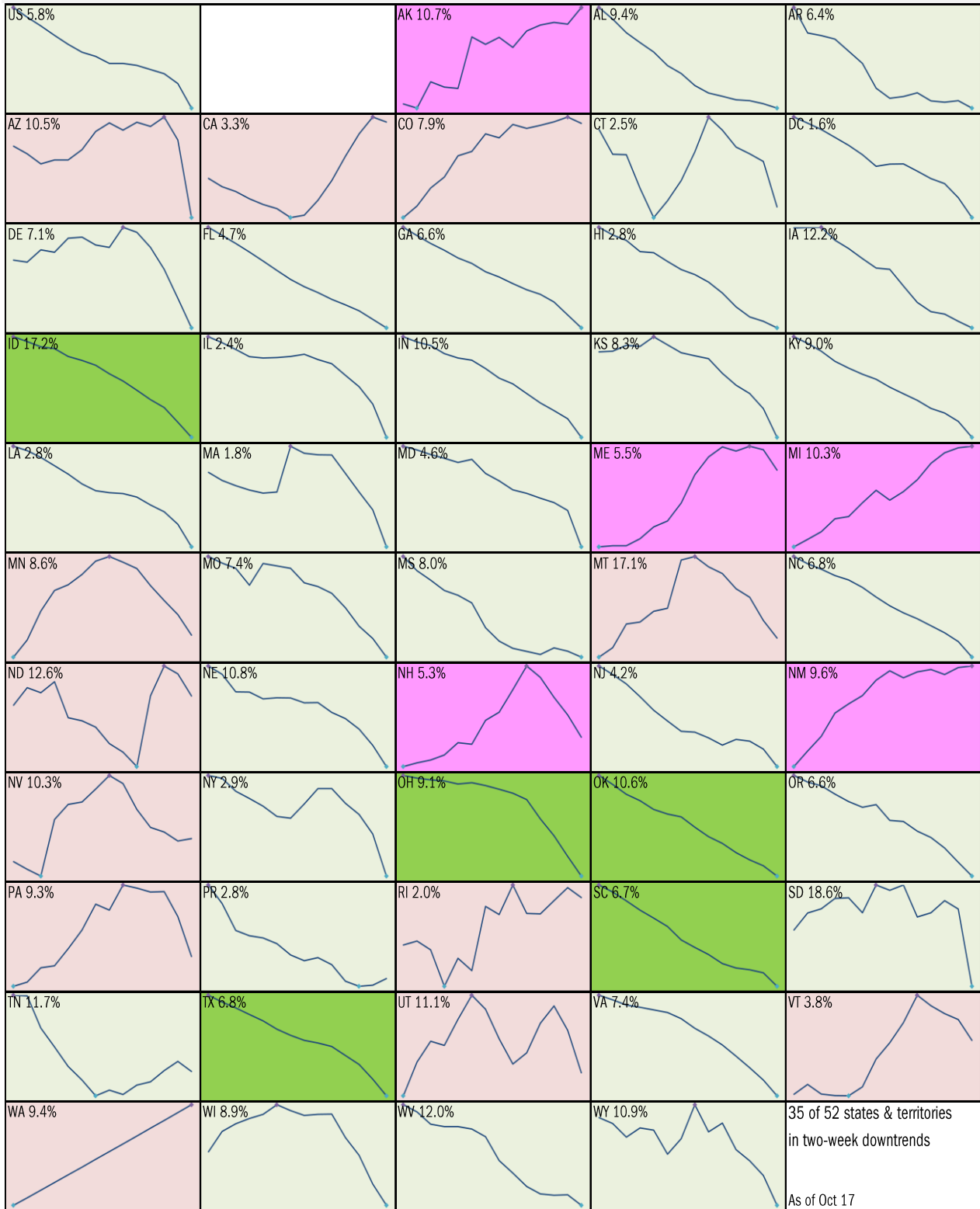


Source: [Johns Hopkins](#), TrendMacro calculations

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

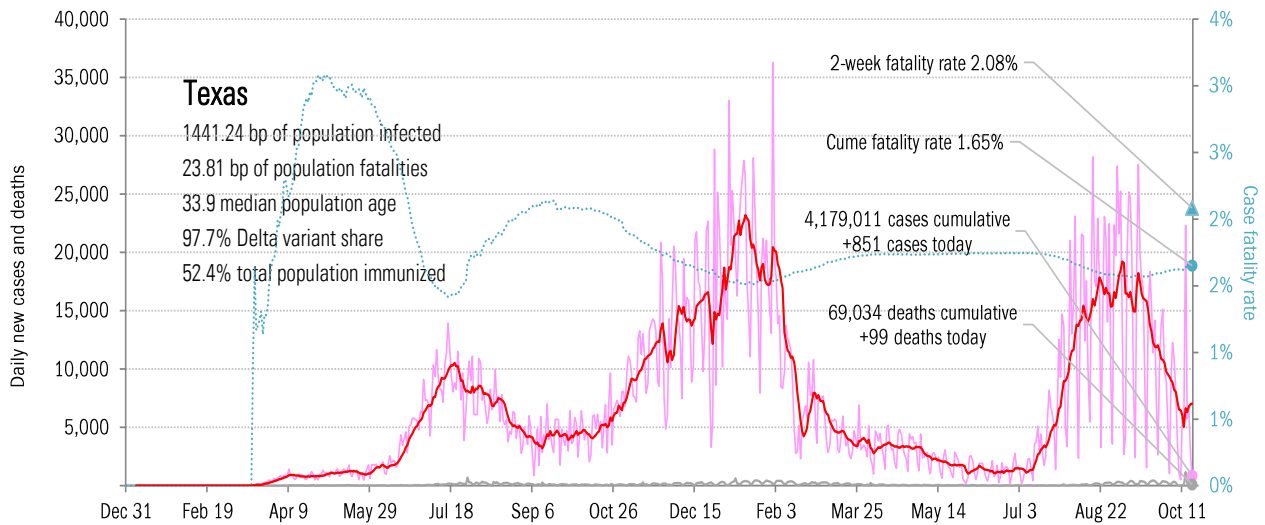
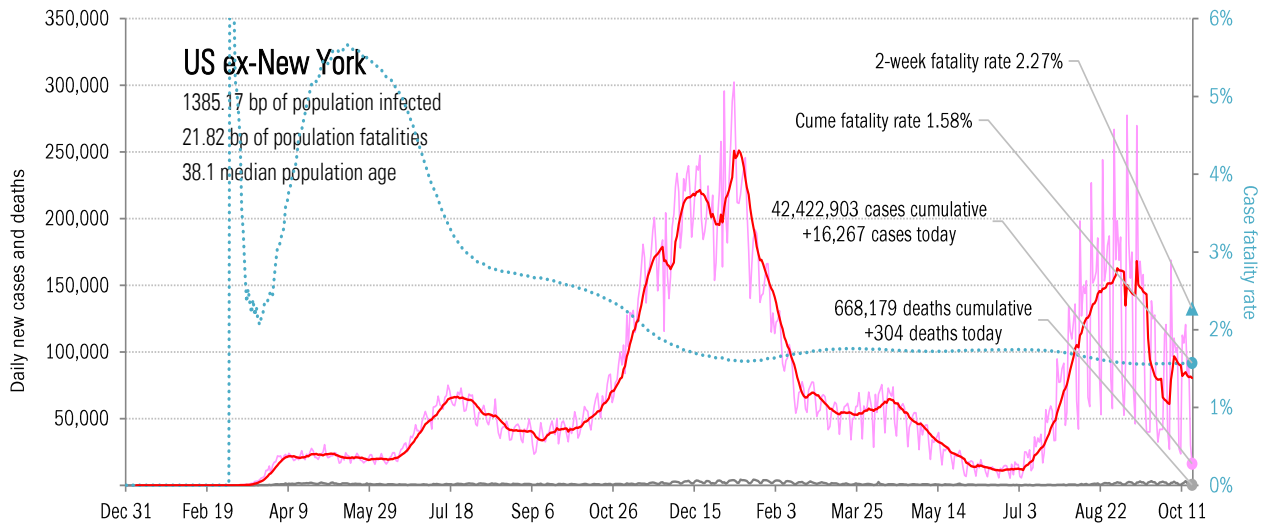
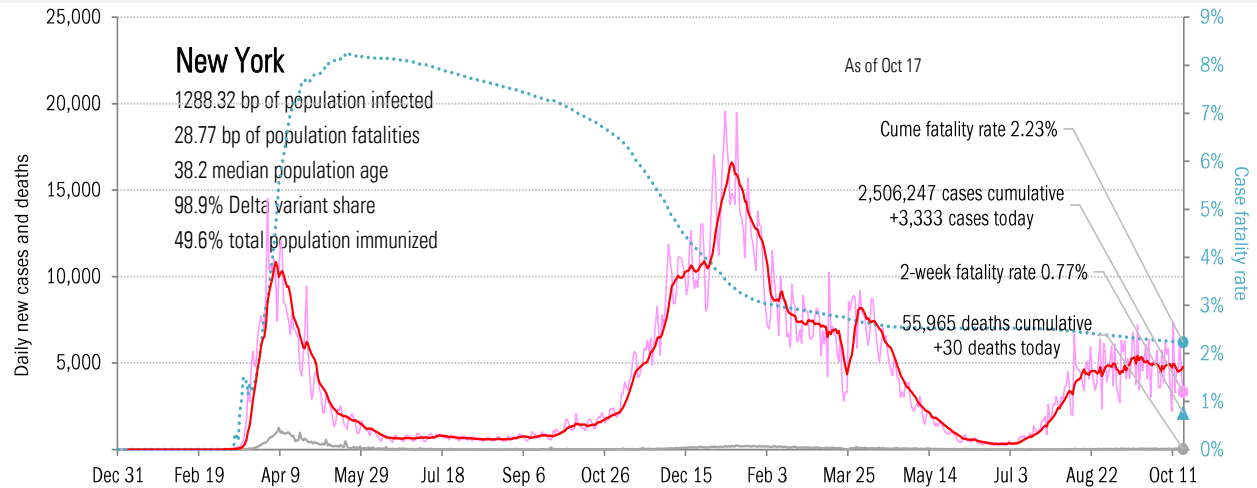
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

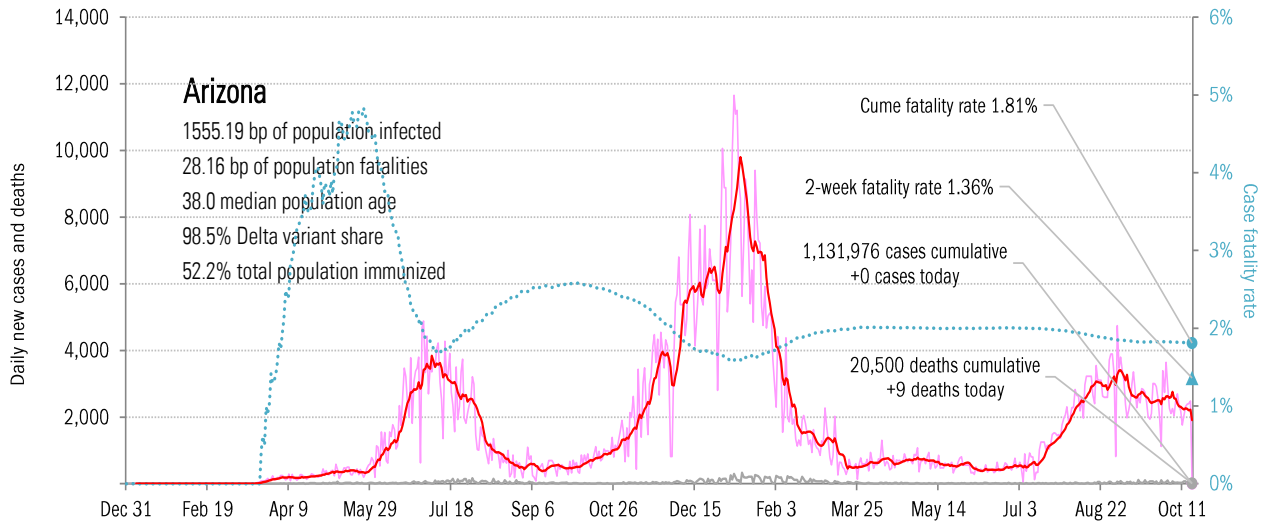
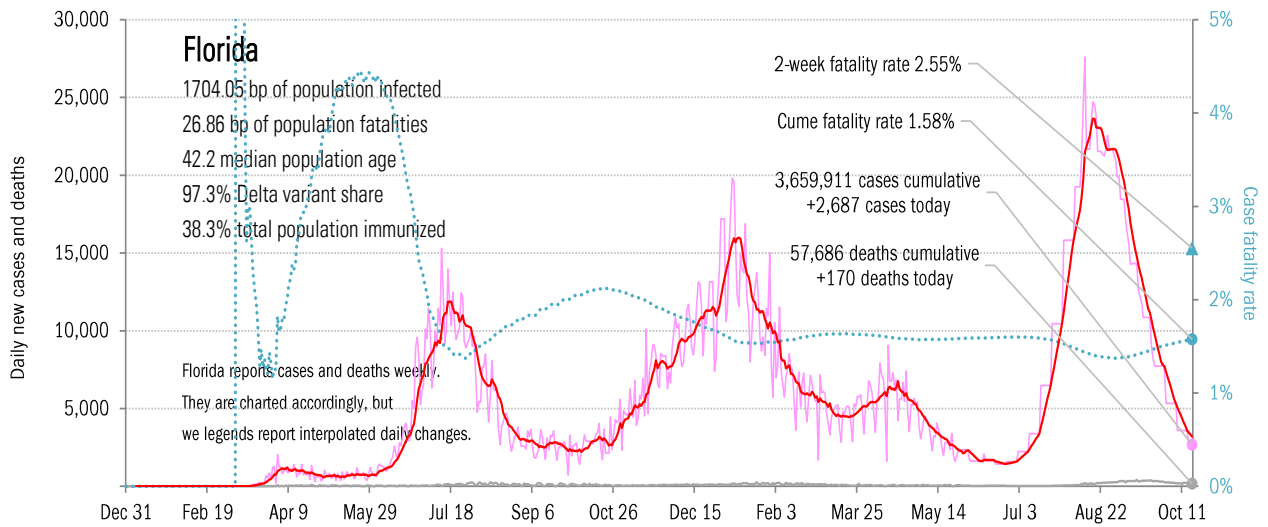
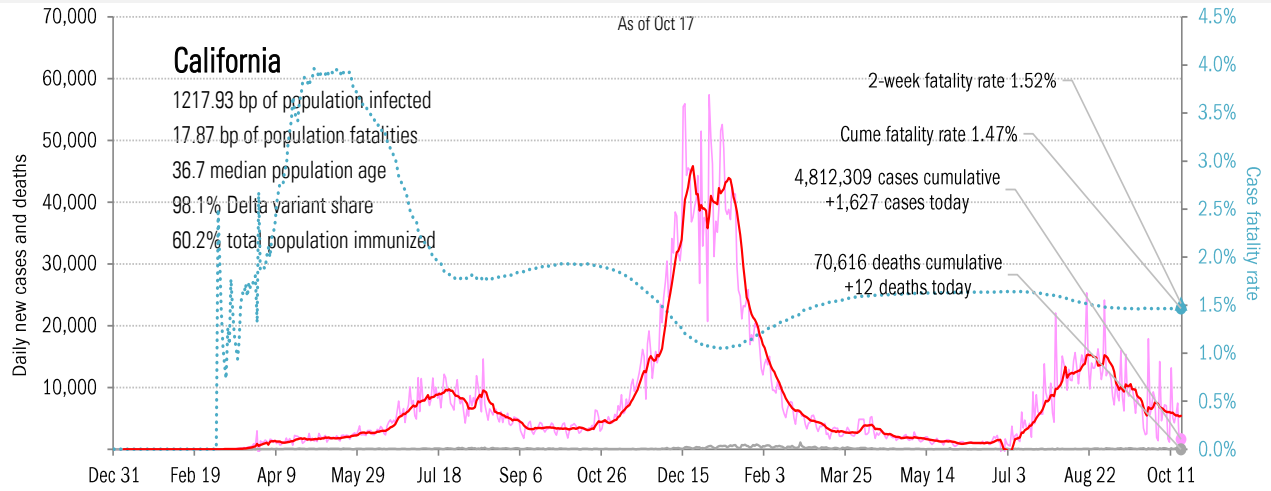
Cases: 7-day average and daily Deaths: Daily



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

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

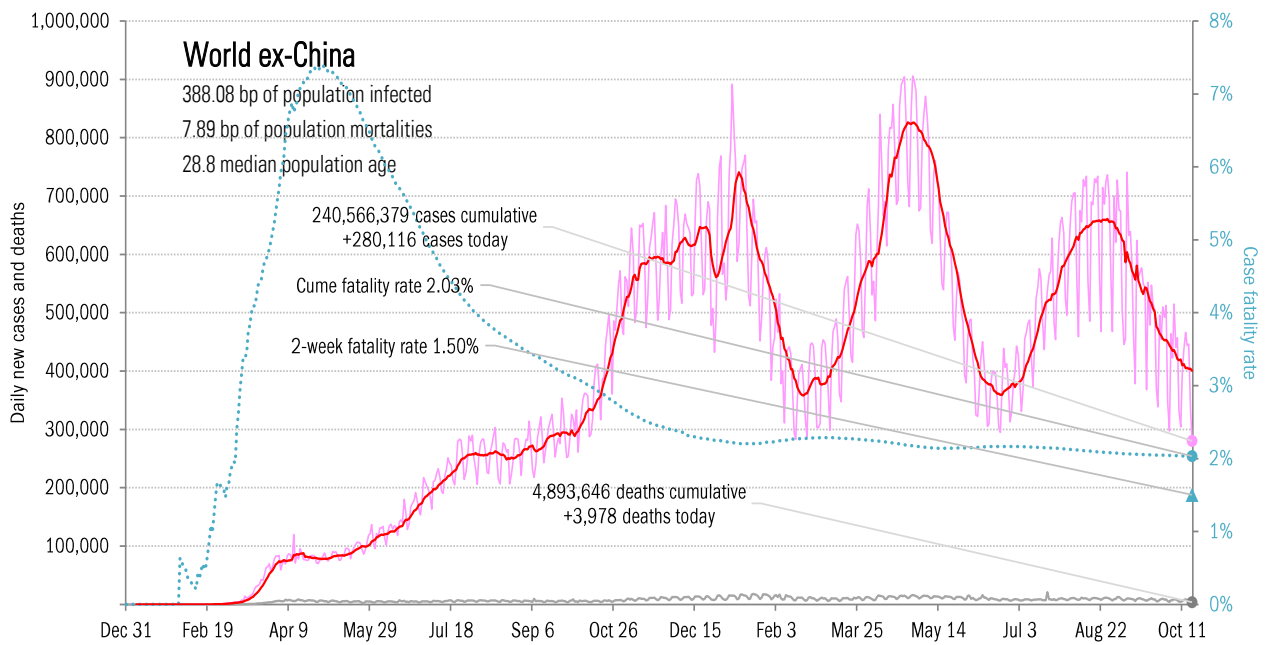
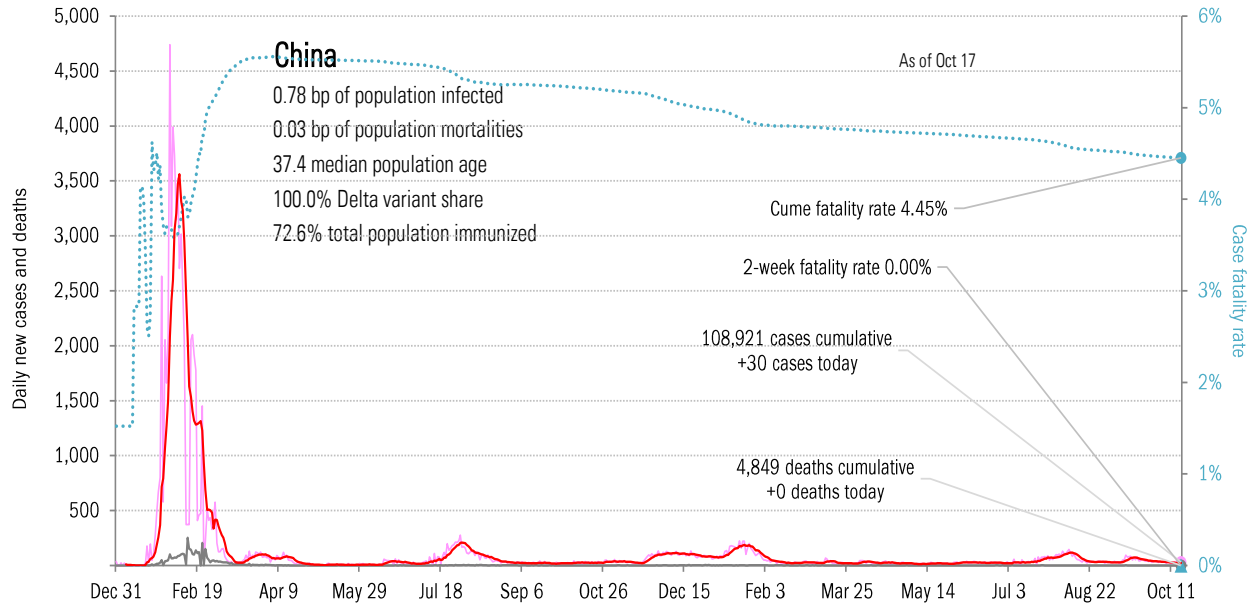
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

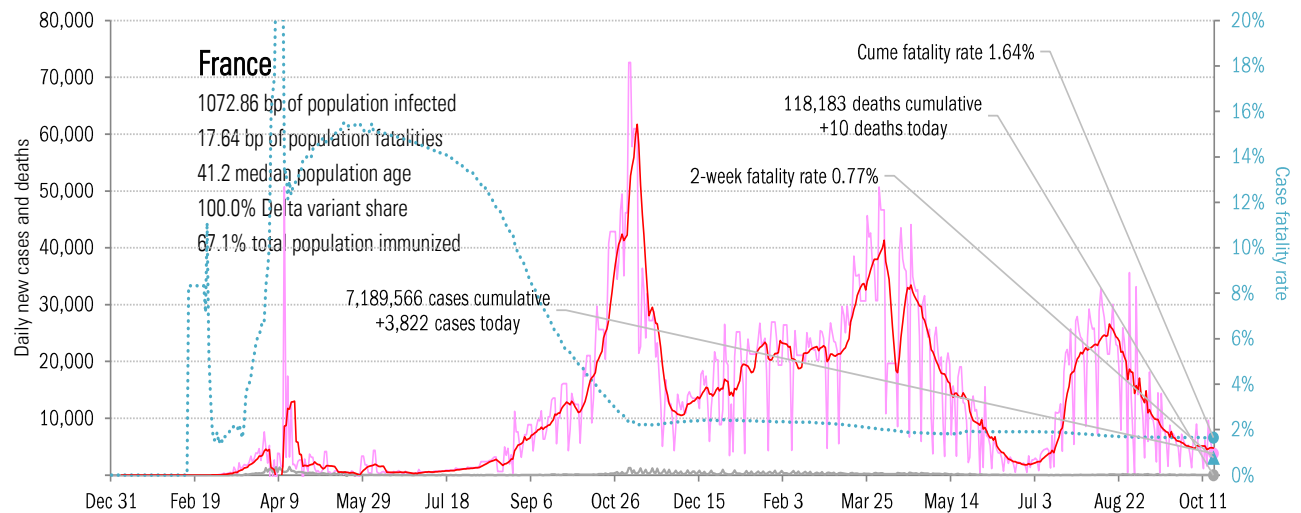
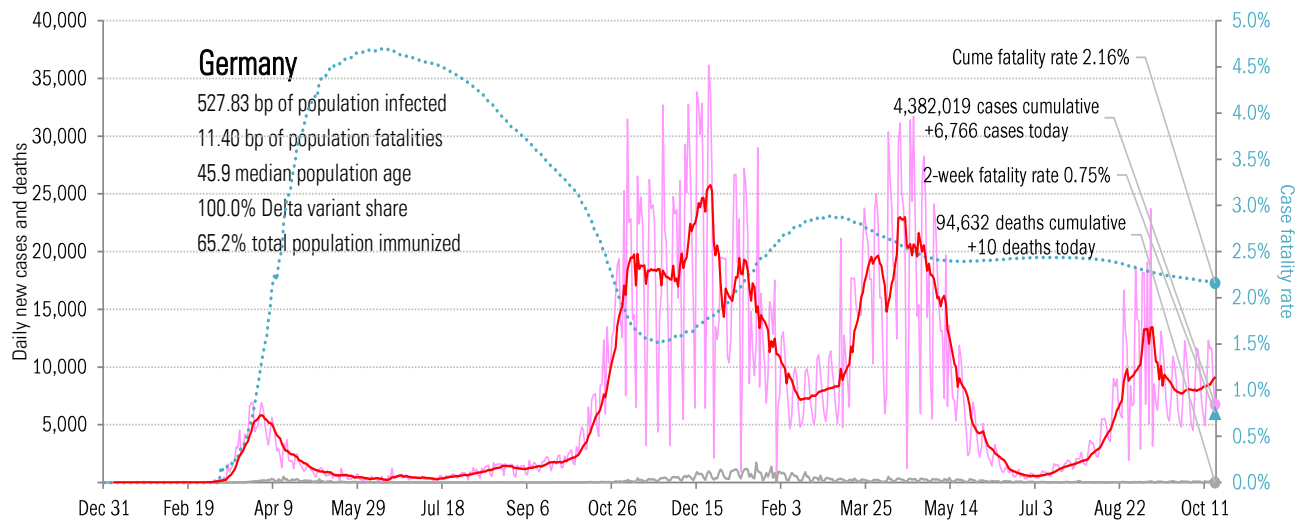
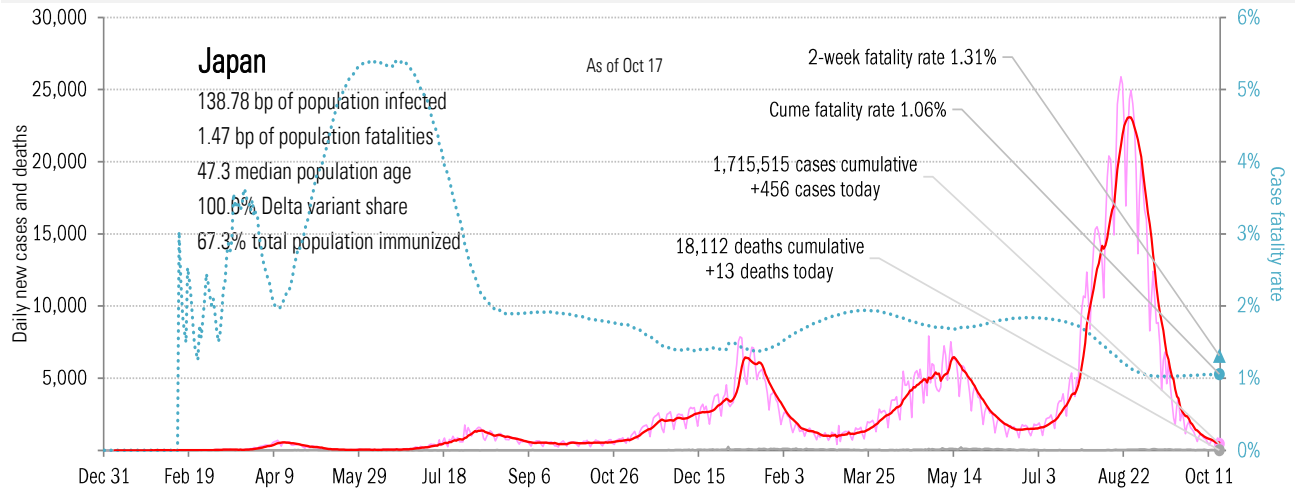
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

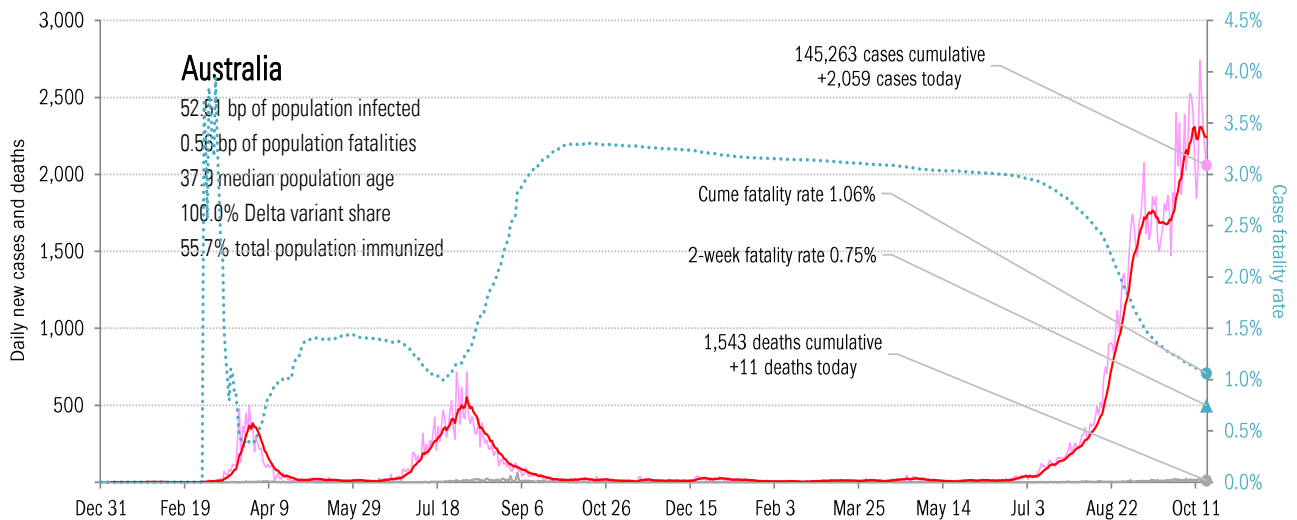
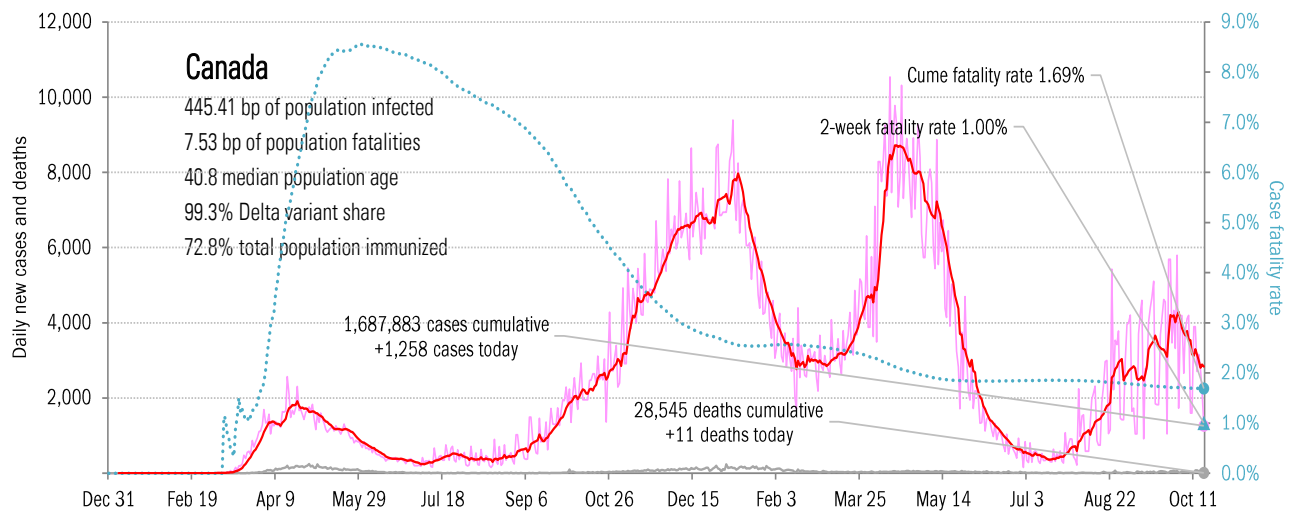
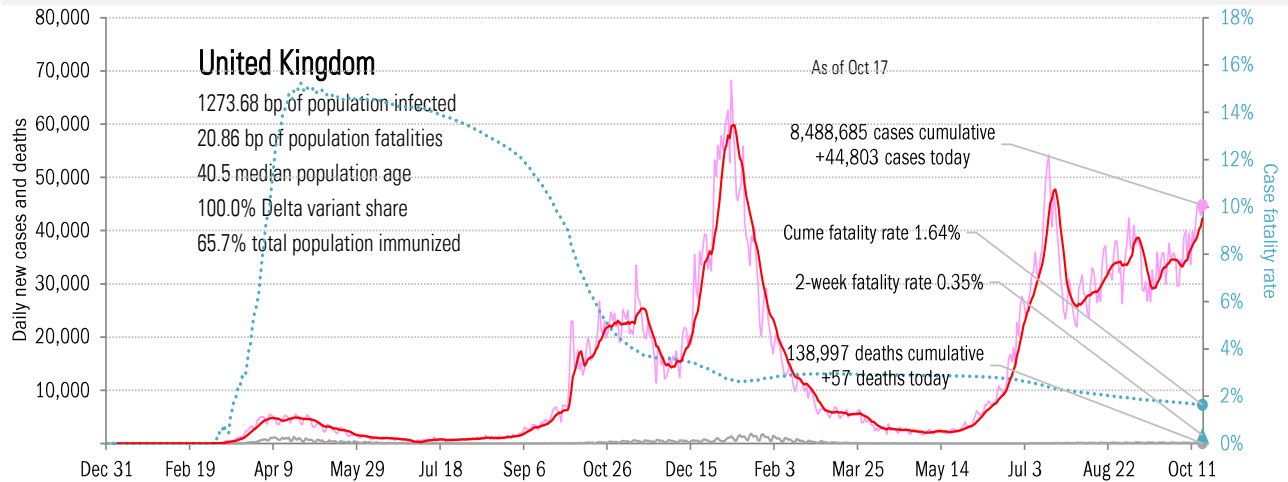
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

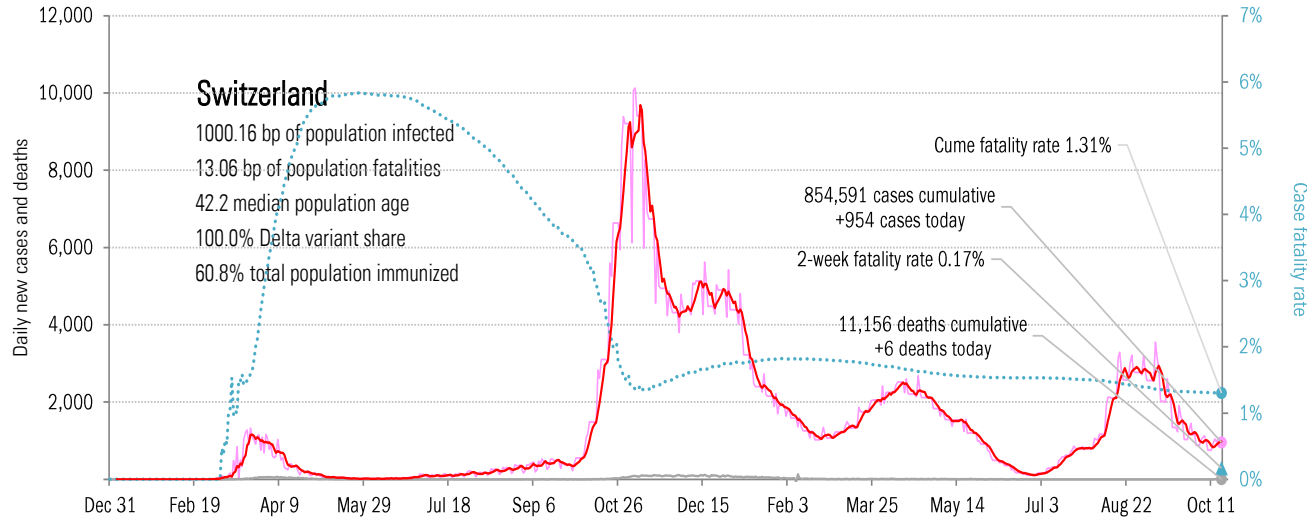
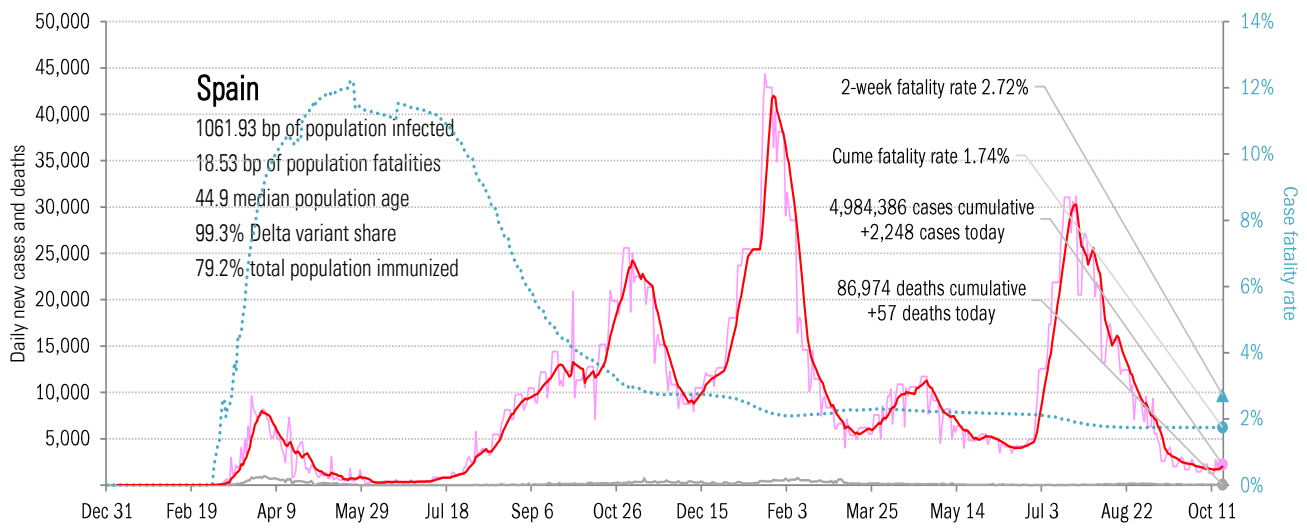
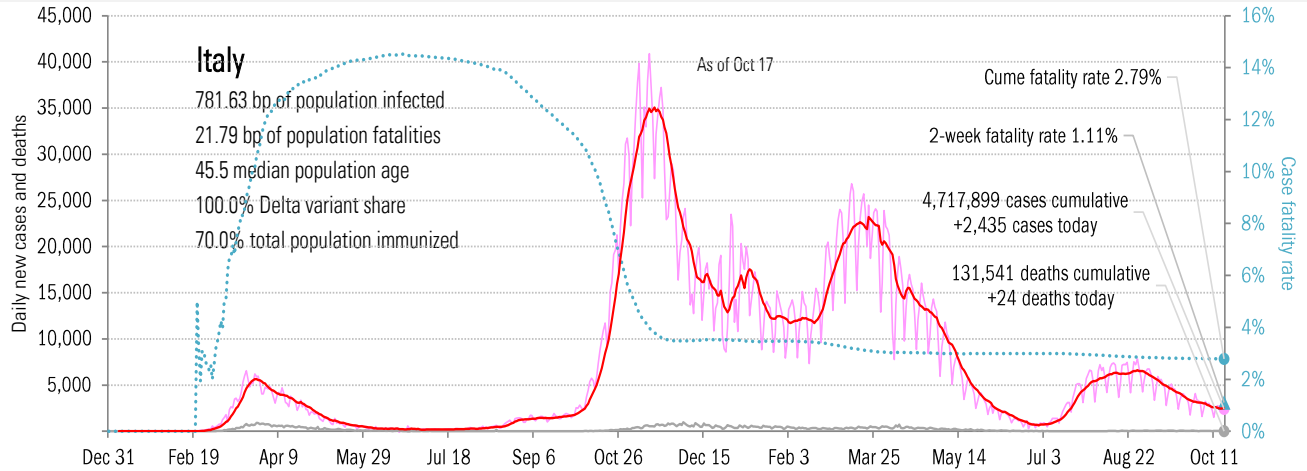
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

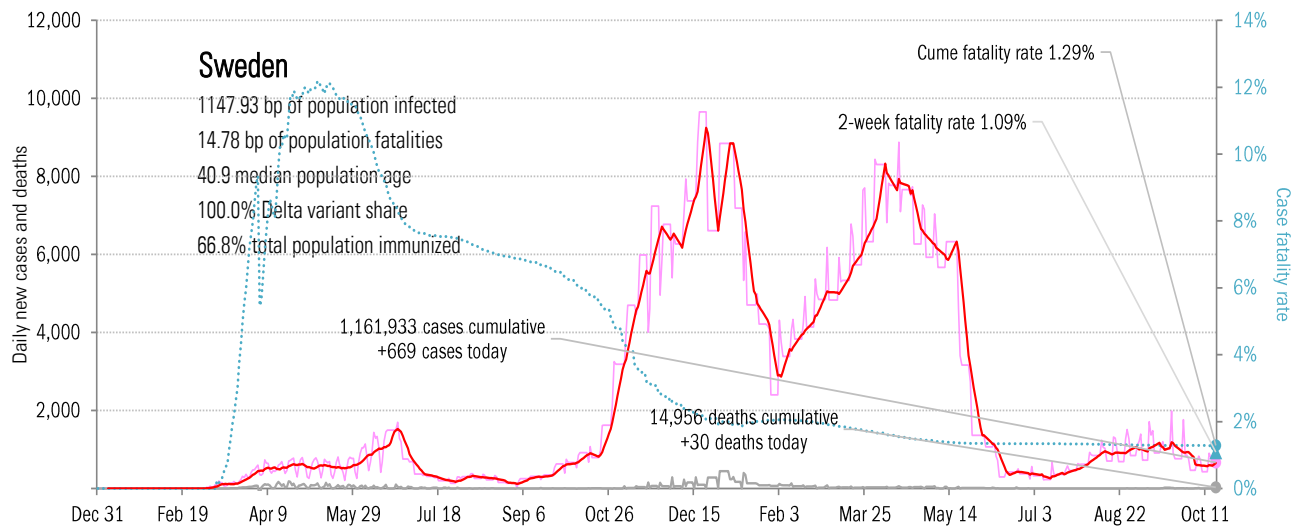
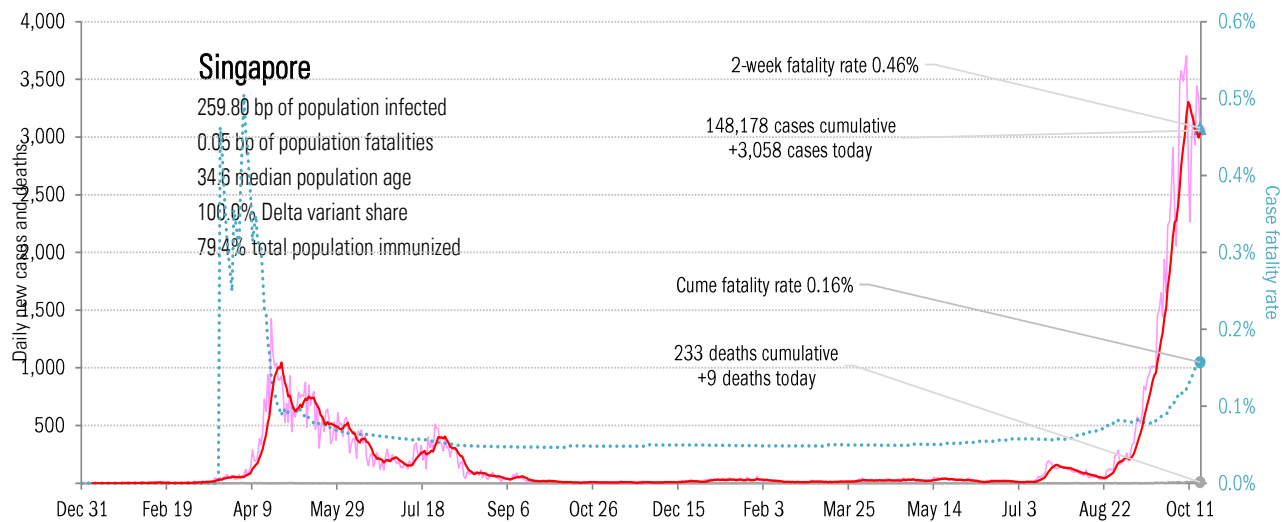
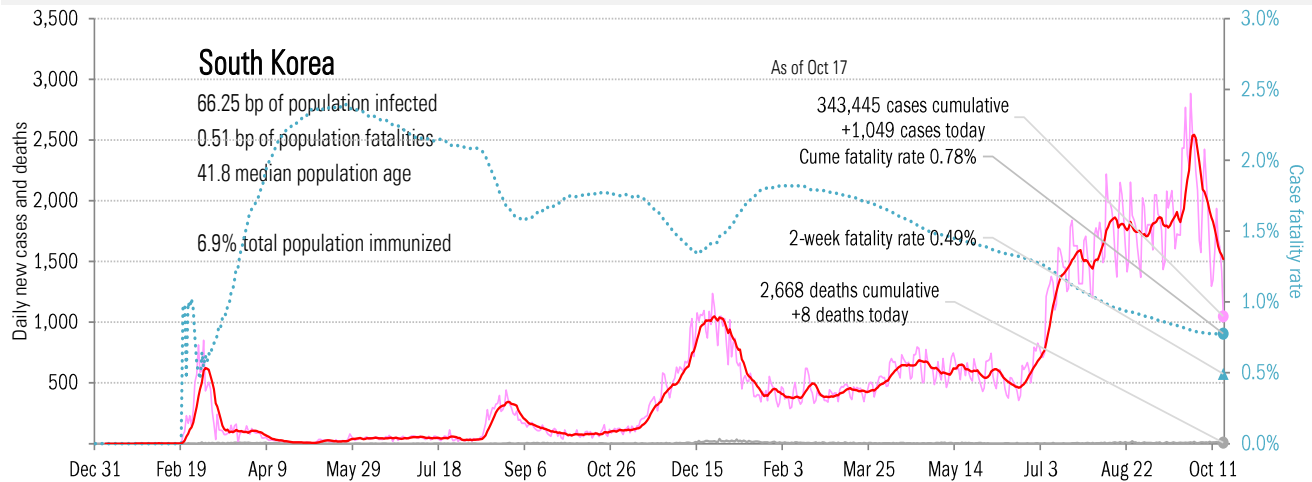
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

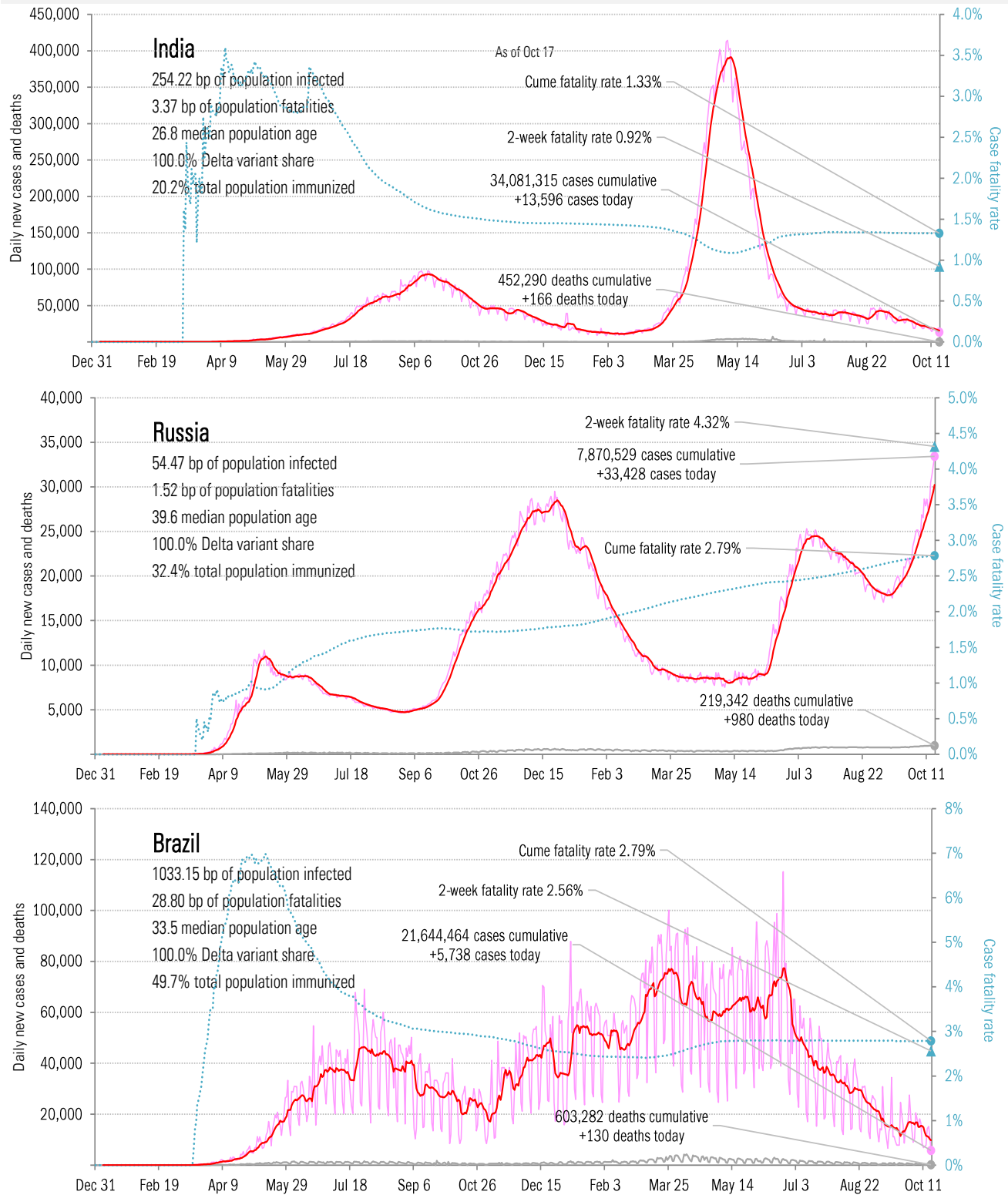
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

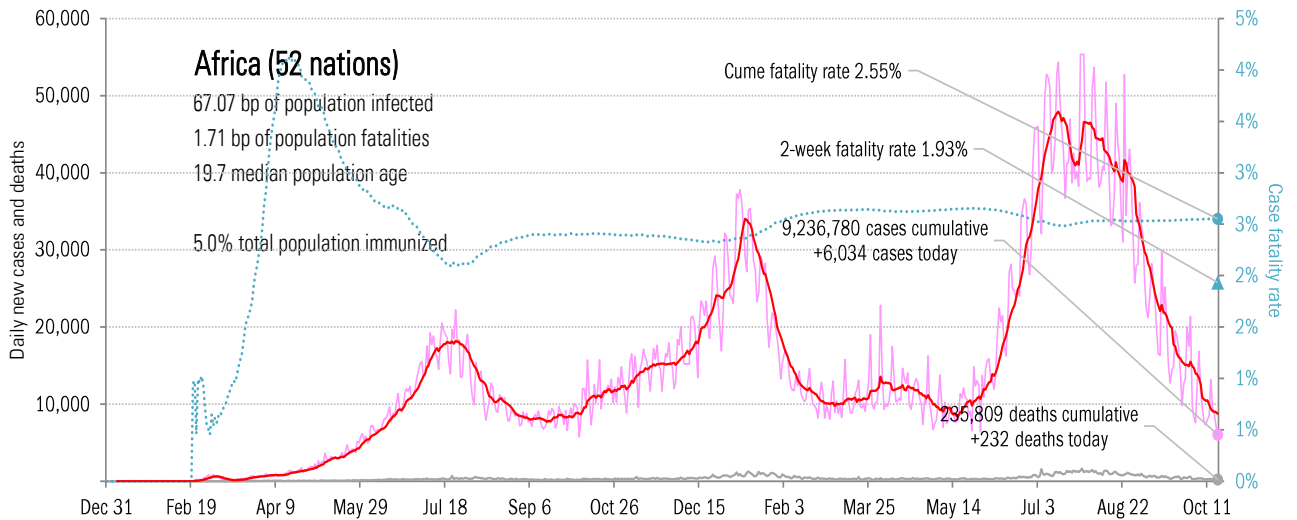
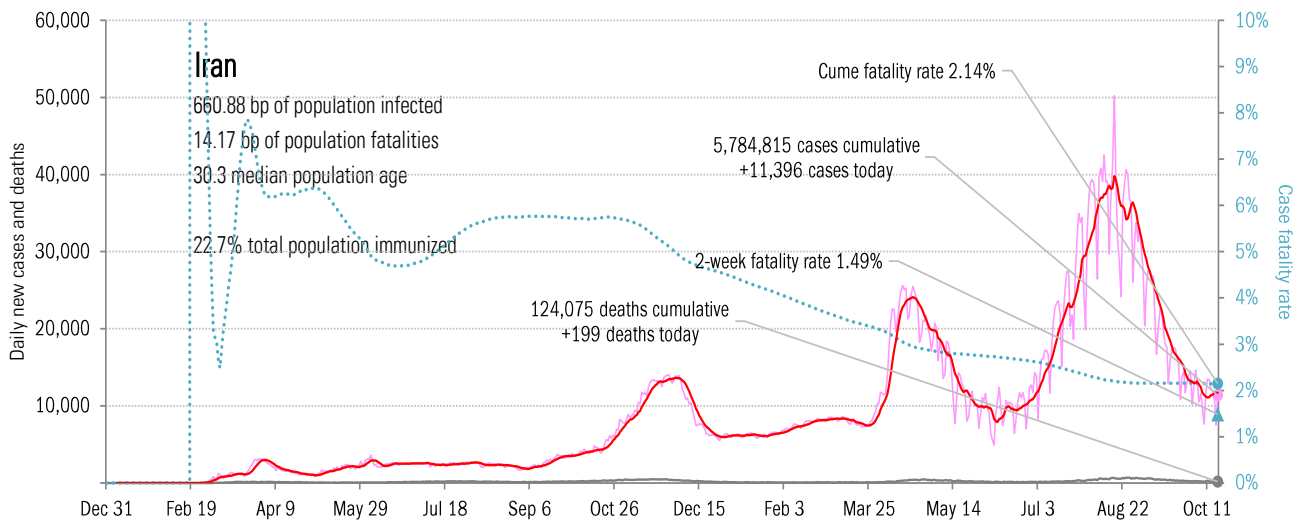
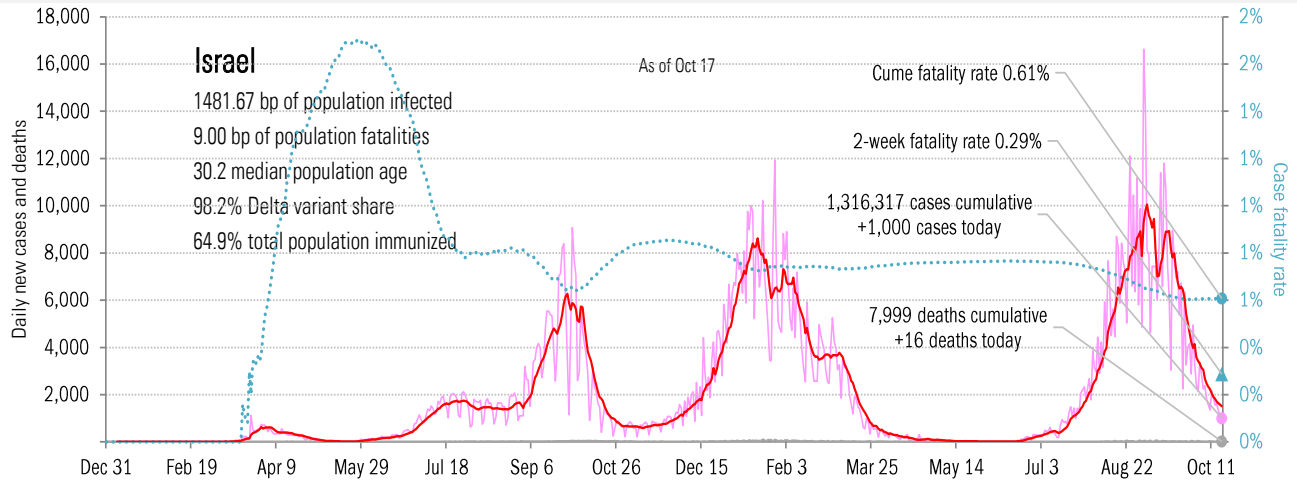
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

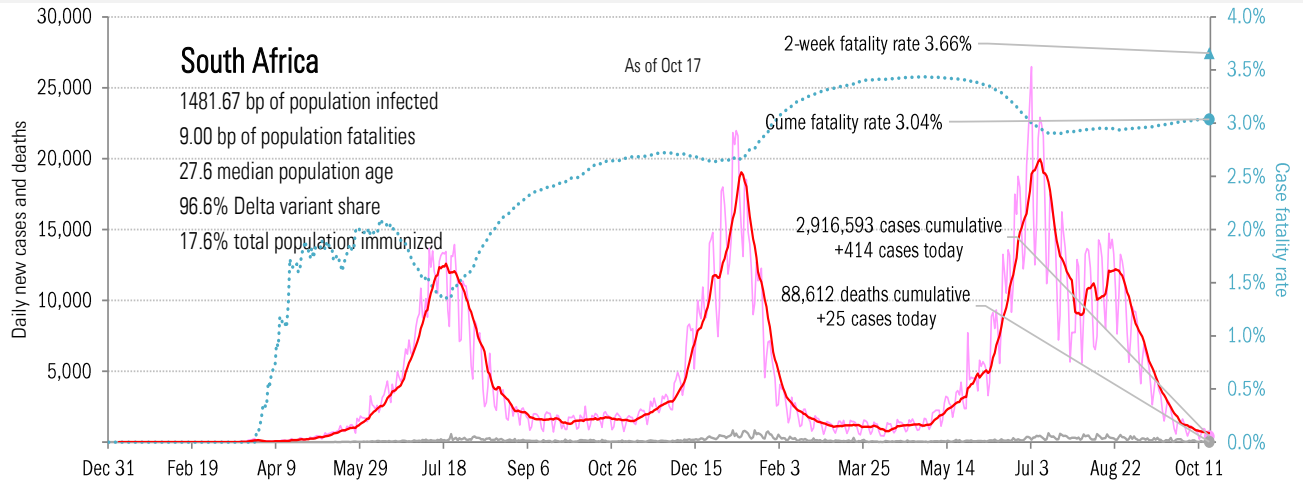
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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