

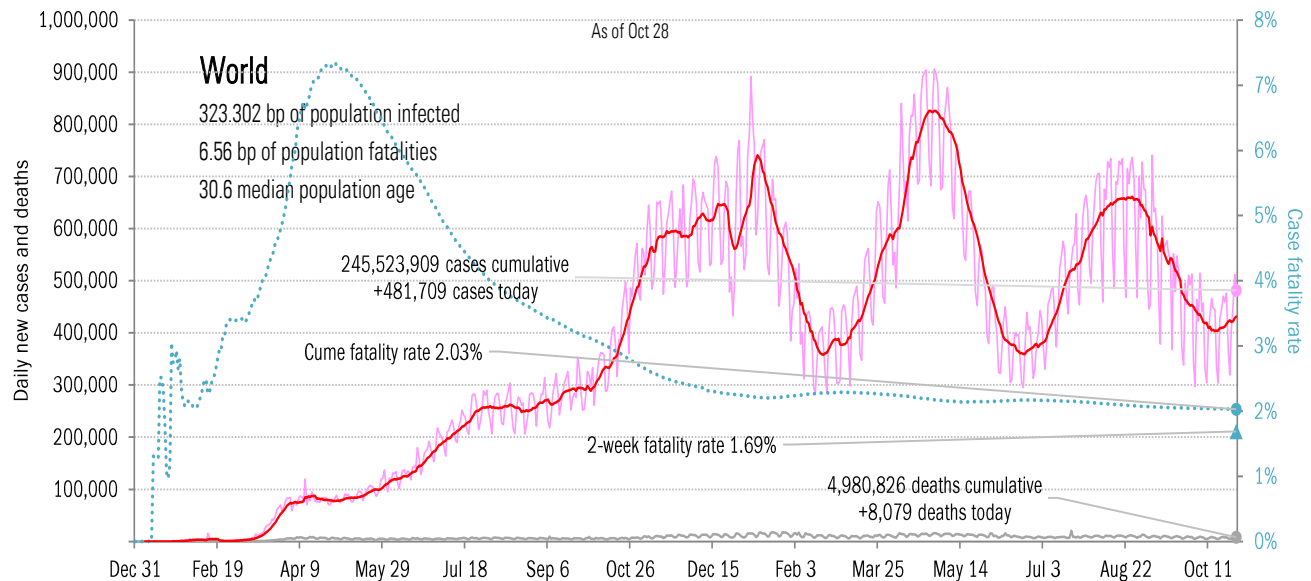
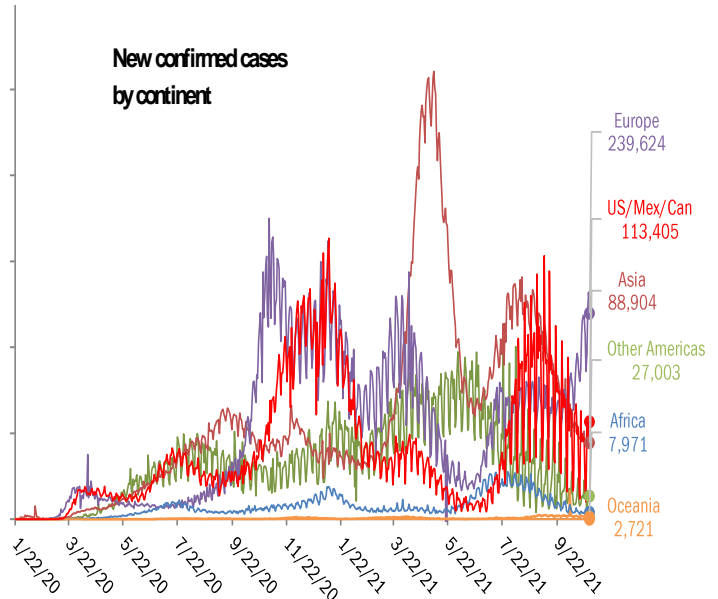
Data Insights: Covid-2019 Monitor

Friday, October 29, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+101,465	United States	+1,341
United Kingdom	+39,478	Russia	+1,114
Russia	+39,070	India	+805
Ukraine	+27,097	Mexico	+743
Turkey	+25,528	Ukraine	+621
Brazil	+15,268	Romania	+415
India	+14,348	Brazil	+389
Romania	+13,197	Turkey	+229
Iran	+11,409	United Kingdom	+166
Thailand	+9,658	Iran	+159
+296,518		+5,982	
World	+481,709	World	+8,079
Top ten	62%	Top ten	74%



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

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

Cases: 7-day average and daily Deaths: Daily

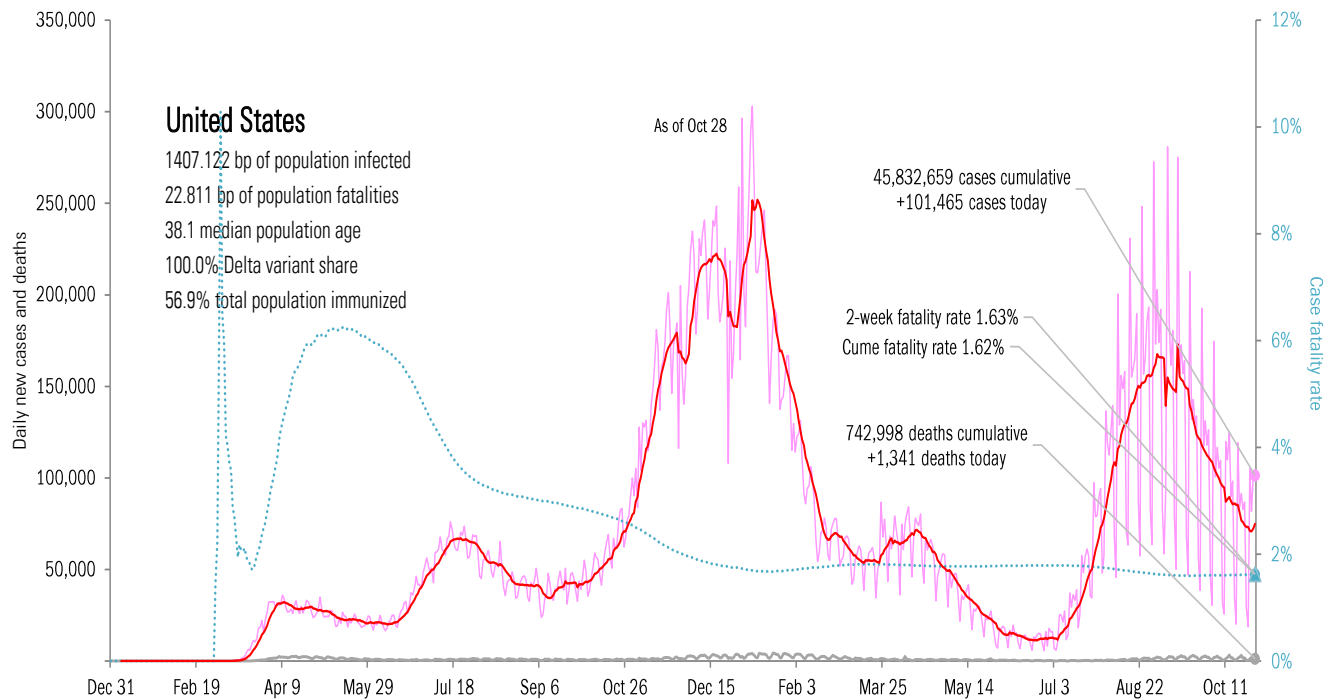
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
CA	+29,540		TX	+168		GA	+75		CA	4,906,317		CA	71,848		TX	373,416		MA	88%	NM	94%
TX	+6,360		FL	+127		NM	+33		TX	4,231,141		TX	70,886		FL	317,674		RI	87%	ID	90%
PA	+4,312		PA	+95		CA	+19		FL	3,685,222		FL	59,135		CA	308,572		PA	86%	AL	89%
CH	+4,190		GA	+89		AZ	+17		NY	2,547,865		NY	56,371		NY	162,910		MD	84%	NE	88%
CO	+3,823		CA	+80		MA	+16		IL	1,692,875		PA	31,292		GA	159,057		MI	83%	KY	87%
NY	+3,434		SC	+66		NE	+15		GA	1,632,870		GA	28,939		CH	122,294		MN	83%	NV	87%
WA	+3,339		WV	+63		VT	+10		PA	1,552,953		IL	28,182		PA	115,674		NY	82%	AK	87%
AZ	+2,795		AL	+52		CR	+8		CH	1,536,005		NJ	27,949		KY	110,758		GA	82%	NH	85%
MN	+2,685		VA	+43		WA	+7		NC	1,475,148		CH	24,164		IL	104,231		MO	82%	VT	85%
IL	+2,601		IL	+42		HI	+5		TN	1,279,112		MI	23,526		MI	90,389		WV	81%	RI	85%
+63,079			+825			+205			24,539,508			422,292			1,864,975						
All states	+101,465			+1,341			-389		All states	45,832,659			742,998			3,330,846		All states	70%		67%
Top ten	62%			62%			-53%		Top ten	53%			57%			56%		Median	78%		80%

Some states not reporting

Five most improved US states

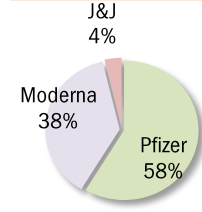
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-9,786	NE	-469	CO	-75	AK	+10 bp
IA	-6,656	CK	-170	IN	-55	AL	+10 bp
AL	-5,252	MI	-160	TX	-54	AR	+10 bp
AZ	-3,504	IA	-117	MI	-35	AZ	+10 bp
NE	-2,445	KS	-102	PA	-26	CA	+10 bp



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

Rolling out the vaccines in the US and the world

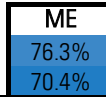
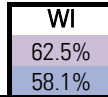
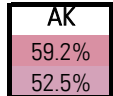
Administered	Cumulative		Today		Immunity	Full	Partial
Doses	429,512,002		+1.668 million		US	56.9%	65.8%
	One dose	% Pop	Immune	% pop	New immune today	UK	73.1%
Total population	227,001,437	68%	196,245,512	59%	+0.255 million	France	75.7%
Age 12 to 17	14,199,162	60%	11,780,793	50%	+0.021 million	Spain	81.3%
Age 18 to 64	156,920,224	77%	135,491,034	67%	+0.183 million	Germany	68.7%
Age 65 and over	54,773,753	100%	48,059,245	88%	+0.050 million	Italy	77.2%
						Australia	73.9%
						Israel	70.9%
						Canada	78.3%
						Japan	77.5%
						Africa	8.6%
						India	52.1%
						Brazil	74.4%
						China	76.2%



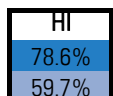
State
At least partial immunity as % population
Full immunity as % population



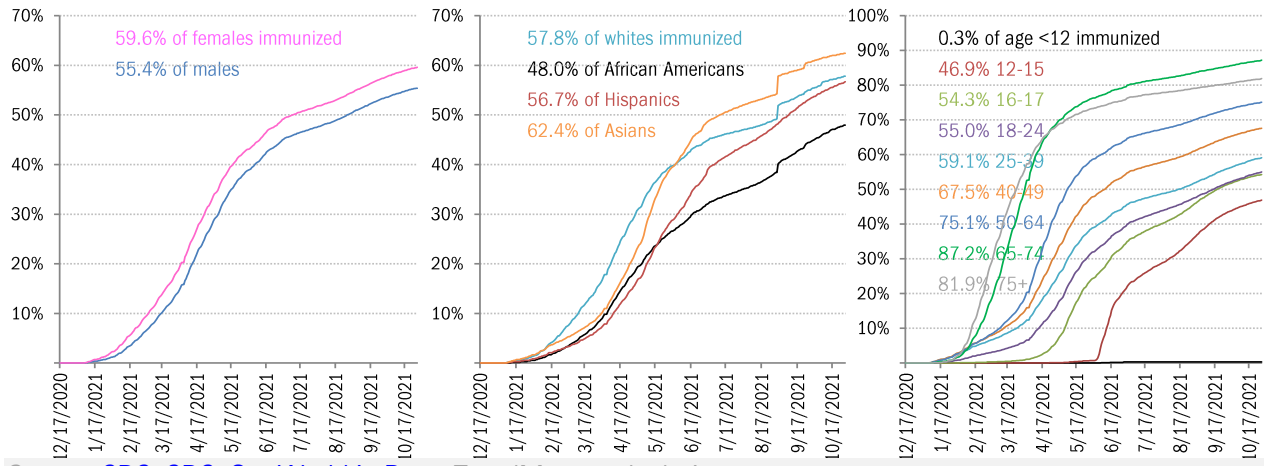
Every American >18 immunized in **40 days** by Dec 7, 2021
 71.1% of population >18 immunized
 16.3% previously tested positive
87.4% vs 60% adult herd immunity



WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
69.2%	48.9%	56.7%	53.0%	65.0%	69.6%	58.1%	74.0%	79.4%	75.2%	
63.3%	43.7%	50.3%	45.7%	59.7%	54.4%	53.4%	66.4%	71.0%	62.8%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
68.2%	63.1%	50.7%	61.7%	59.5%	53.6%	55.7%	77.3%	74.8%	79.9%	
62.7%	52.8%	43.8%	52.5%	55.4%	49.7%	51.7%	60.3%	66.2%	69.5%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
74.3%	60.9%	67.4%	60.8%	56.6%	62.7%	48.9%	70.9%	72.8%	78.7%	77.8%
61.1%	53.3%	61.4%	56.1%	49.6%	54.7%	41.0%	62.9%	66.0%	70.6%	70.7%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	61.0%	71.9%	62.2%	57.8%	54.4%	63.8%	57.4%	74.0%	68.8%	
	52.9%	62.0%	53.0%	47.8%	47.5%	52.5%	49.8%	62.2%	59.7%	
			OK	LA	MS	AL	GA			
			59.2%	53.7%	51.9%	54.3%	56.7%			
			49.8%	47.5%	45.5%	44.6%	48.0%			
			TX					FL		PR
			61.3%					68.9%		81.9%
			53.2%					59.6%		73.3%



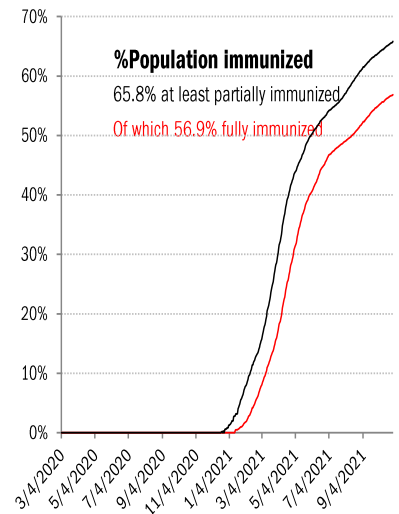
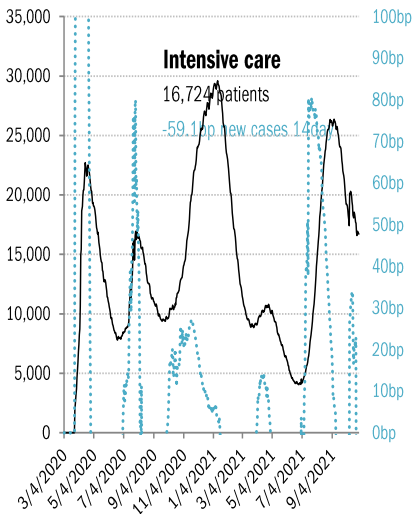
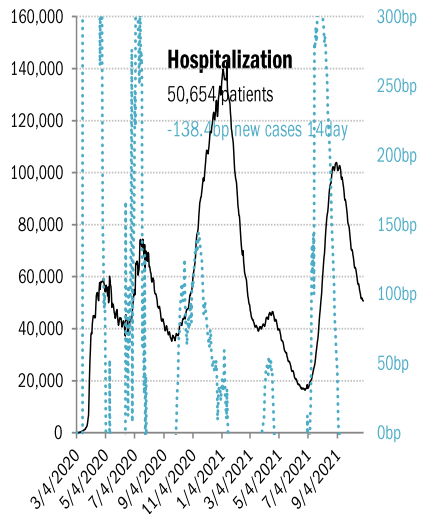
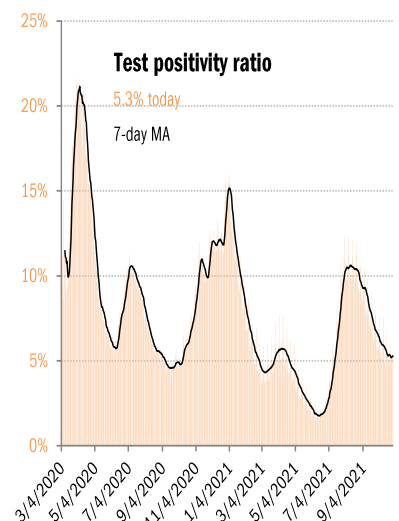
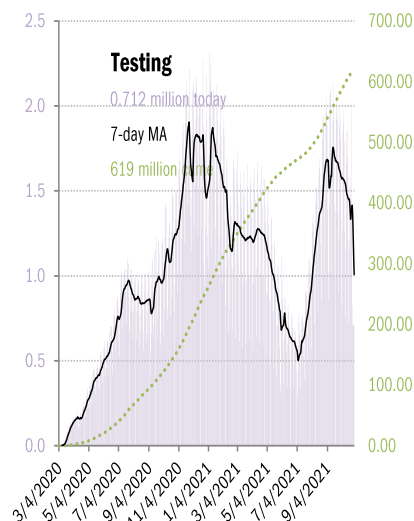
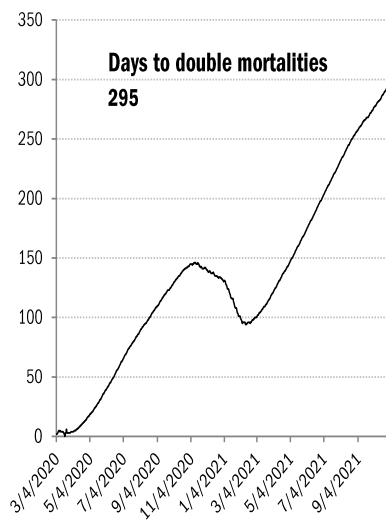
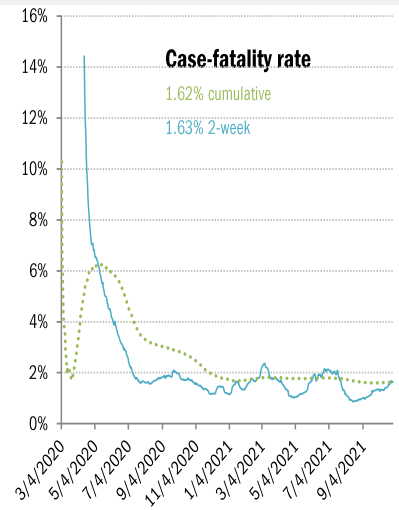
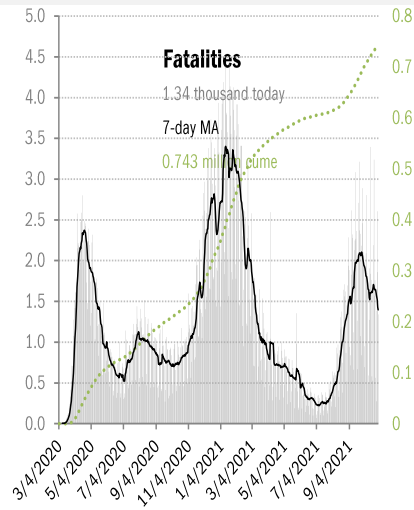
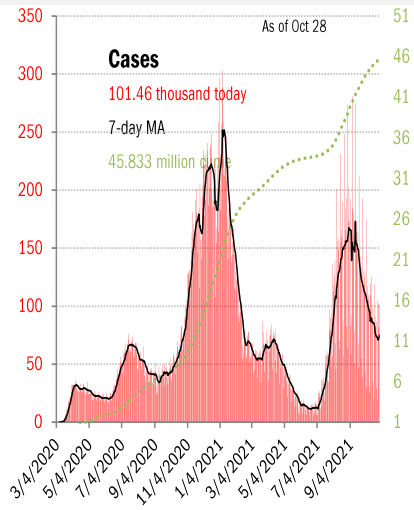
The demographics of US vaccination



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

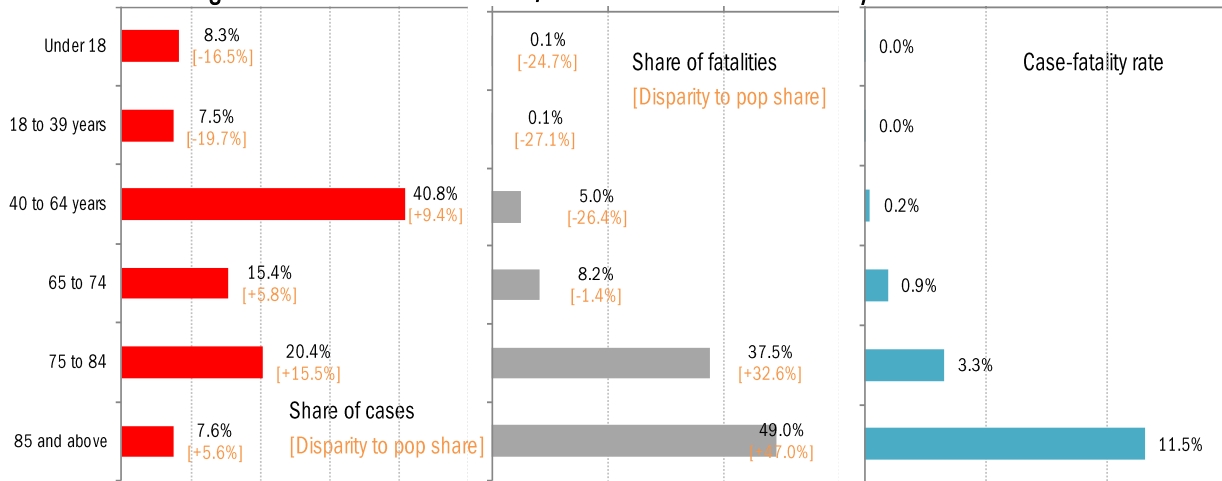
US deep-dive

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

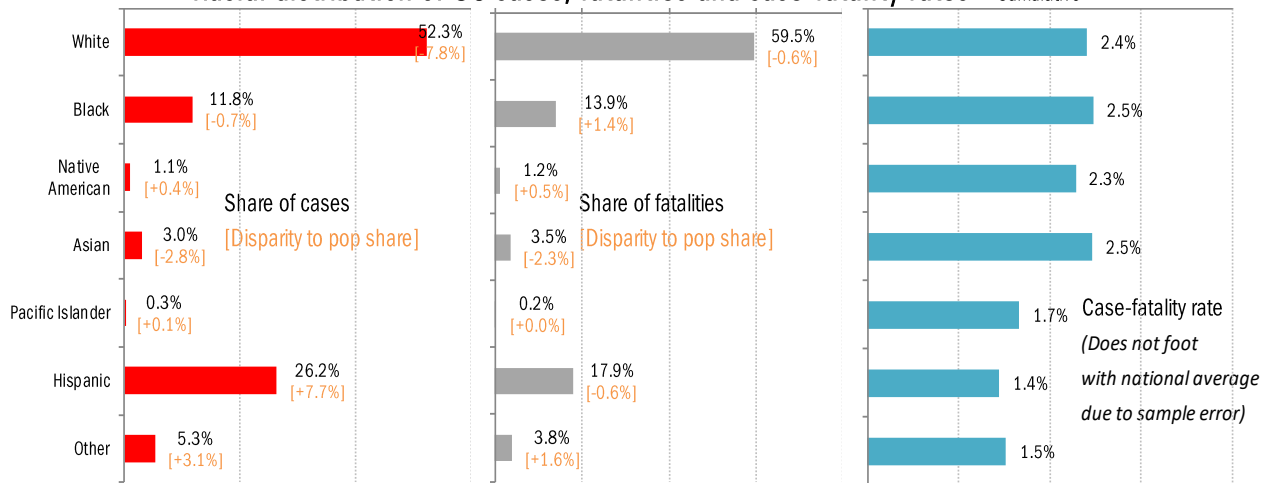


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

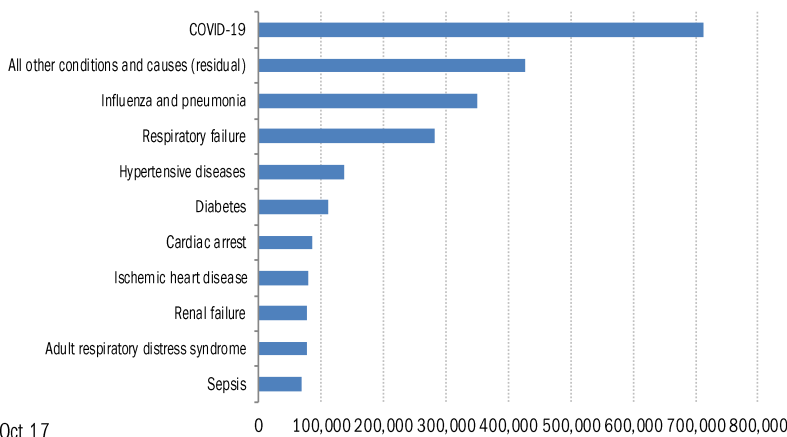


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Oct 17

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

[Rates of laboratory-confirmed COVID-19 hospitalizations by vaccination status](#)

CDC

October 28, 2021

[Rates of COVID-19 Cases and Deaths by Vaccination Status](#)

CDC

October 28, 2021

[Who Had Covid-19 Vaccine Breakthrough Cases?](#)

Aliza Aufrichtig and Amy Schoenfeld Walker

New York Times

October 28, 2021

[Community transmission and viral load kinetics of the SARS-CoV-2 delta \(B.1.617.2\) variant in vaccinated and unvaccinated individuals in the UK: a prospective, longitudinal, cohort study](#)

Anika Singanayagam et al.

The Lancet Infectious Diseases

October 29, 2021

[COVID vaccines effective but household transmission of delta a risk for 1 in 4](#)

Ryan O'Hare

Imperial College London

October 28, 2021

[UK study finds vaccinated people easily transmit Delta variant in households](#)

Reuters

October 28, 2021

[Cigarette sales went up last year for the first time in 20 years](#)

Scott Neuman

NPR

October 27, 2021

[Unearthed Wuhan Lab Docs Show 'Bat Lady' Shi Zhengli Isolating Coronavirus Strains For 'Direct Human Infection.'](#)

Natalie Winters

National Pulse

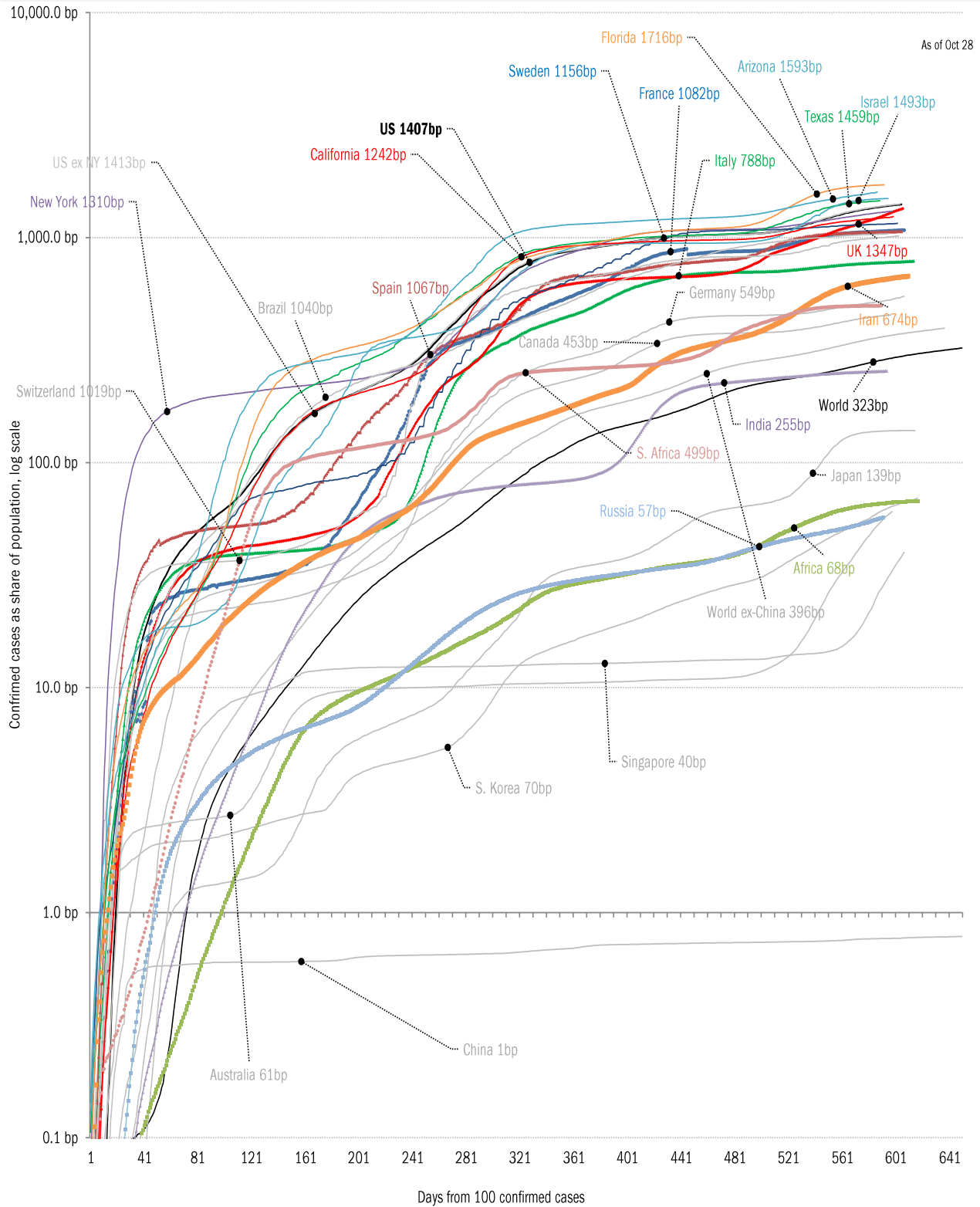
October 27, 2021

Meme of the day



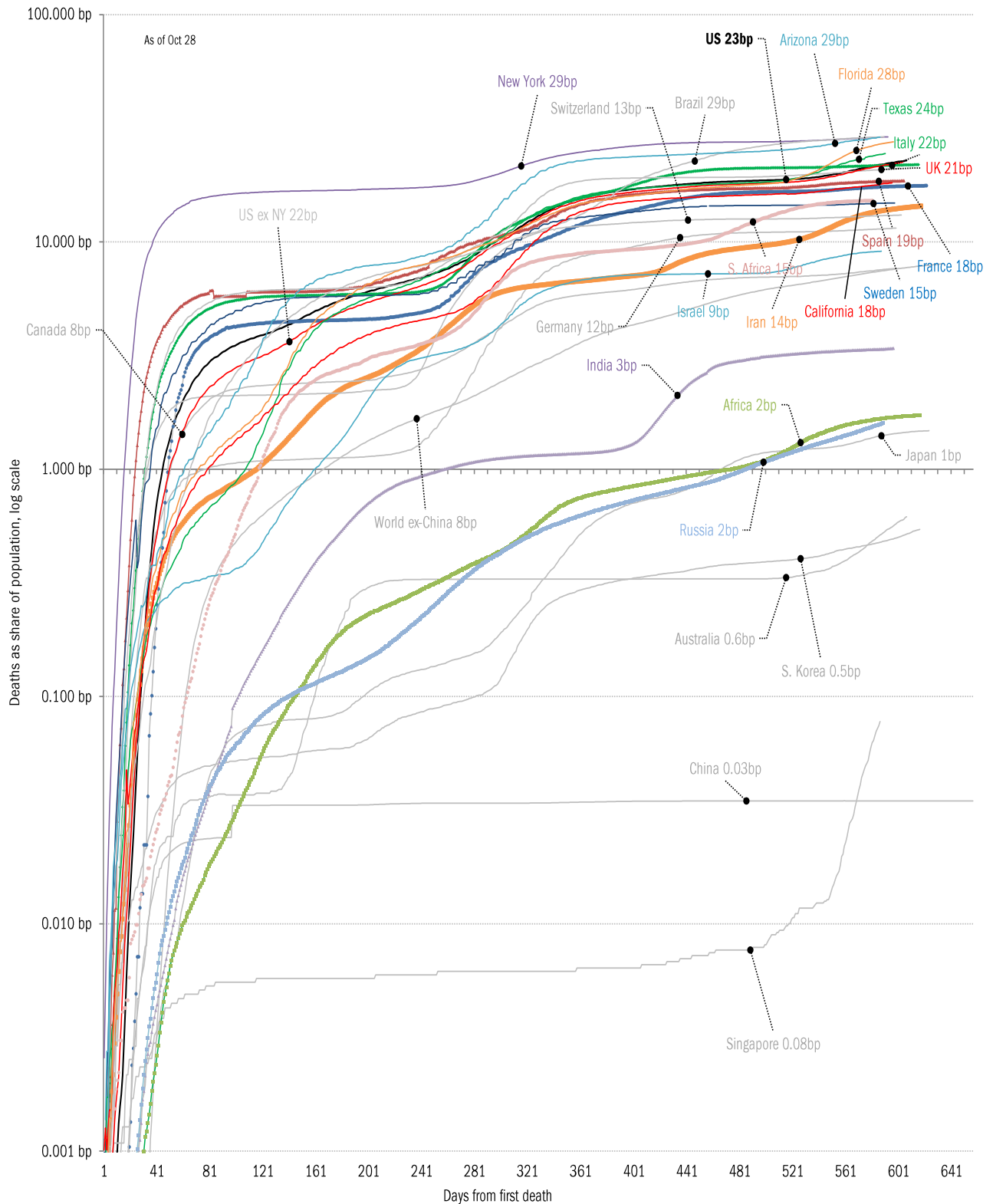
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

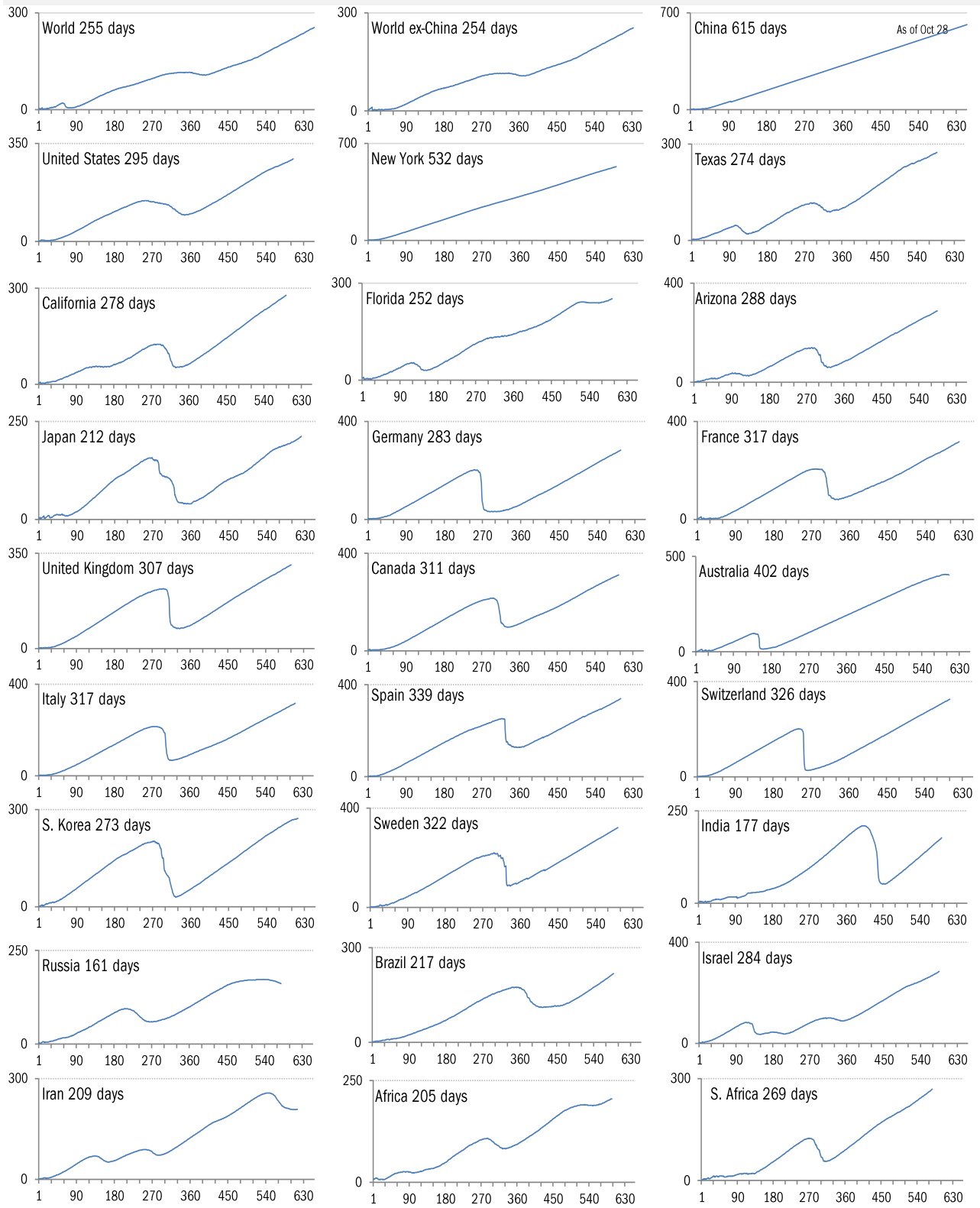


Source: [Johns Hopkins](#), TrendMacro calculations

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

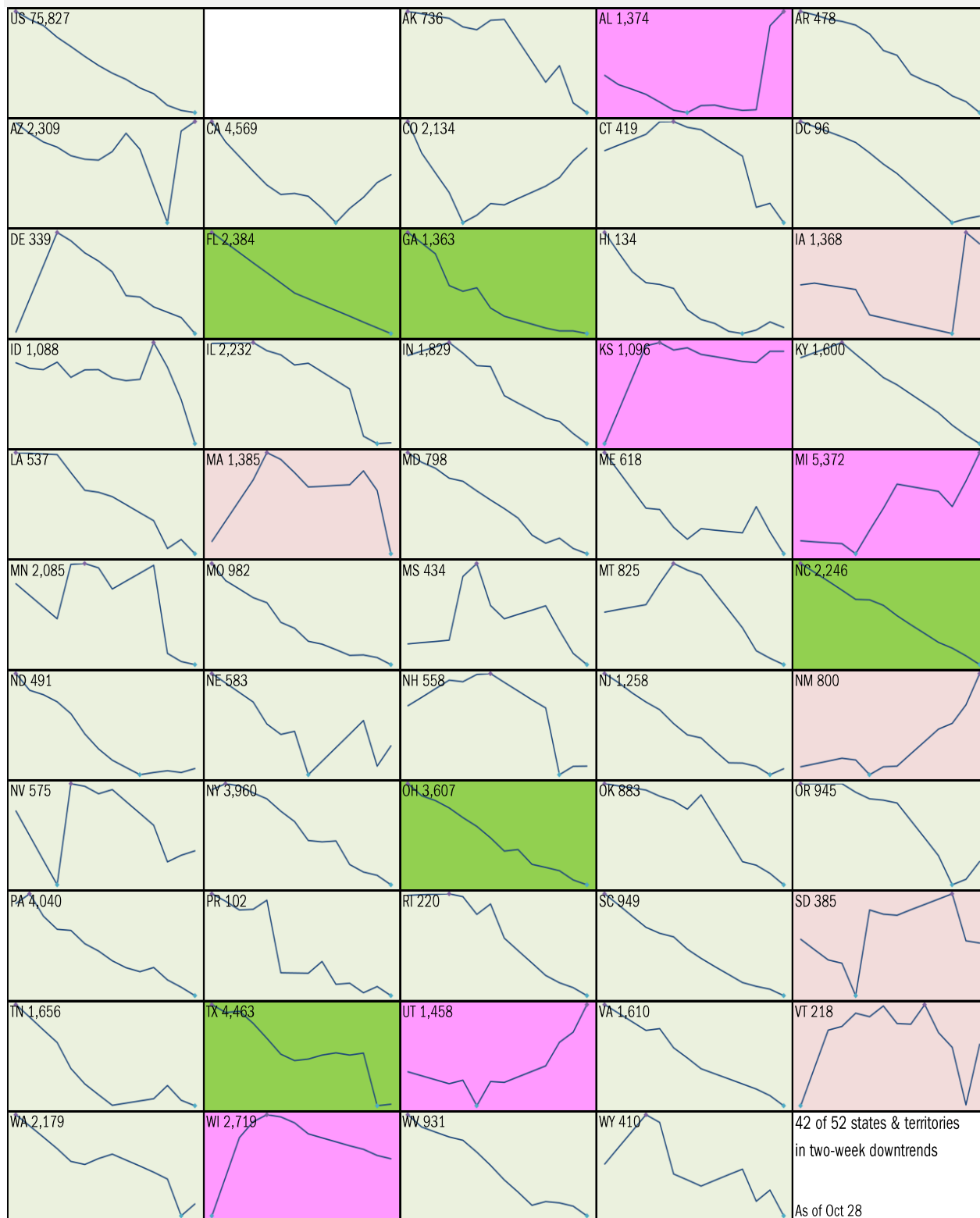
Vertical: days to double deaths Horizontal: days from first death

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



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

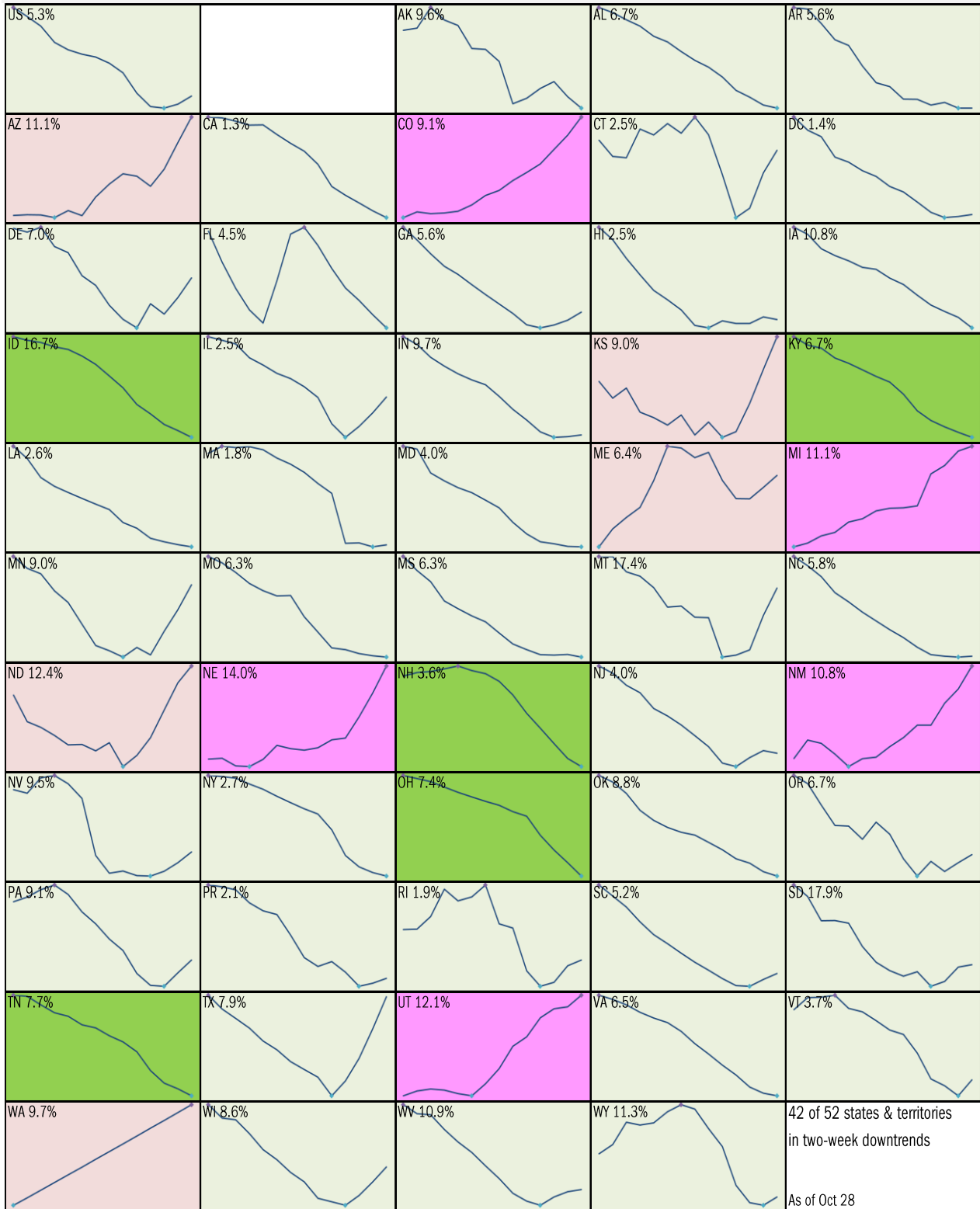
Requirement to [Open Up America Again](#): 14-day "downward trajectory" in new cases
 14-day moving average, last 14 days *Most recent value displayed* ● High ● Low
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

Alt requirement to [Open Up America Again](#): 14-day “downward trajectory” in pos tests

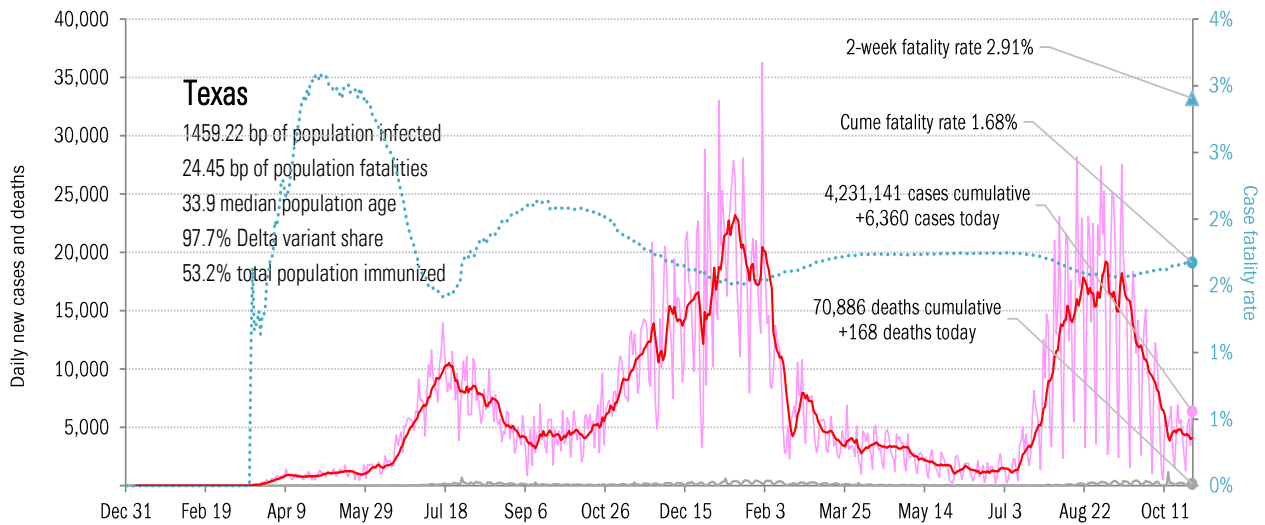
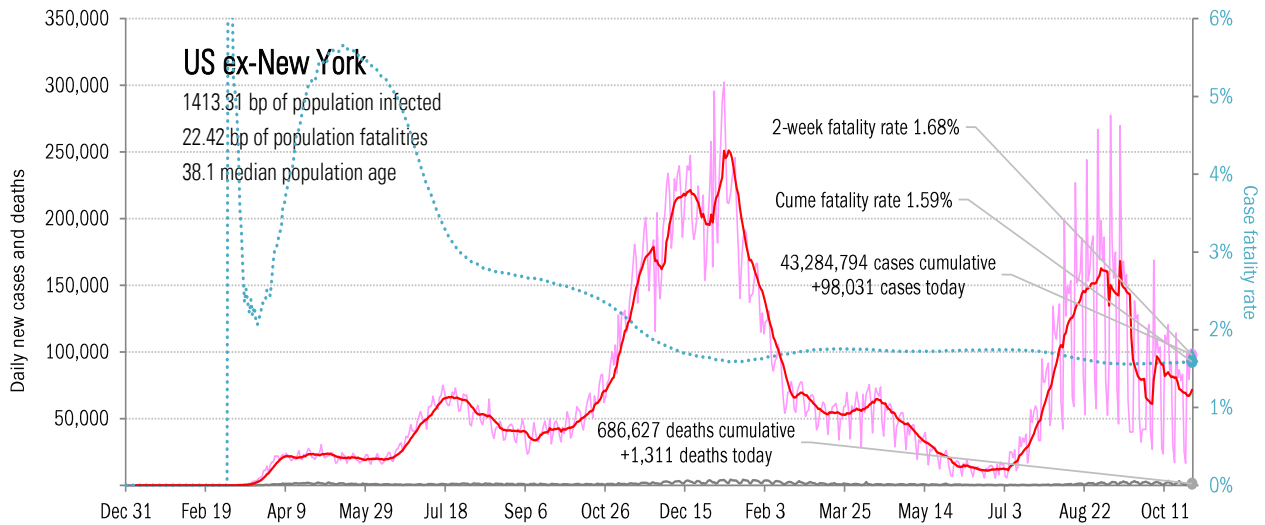
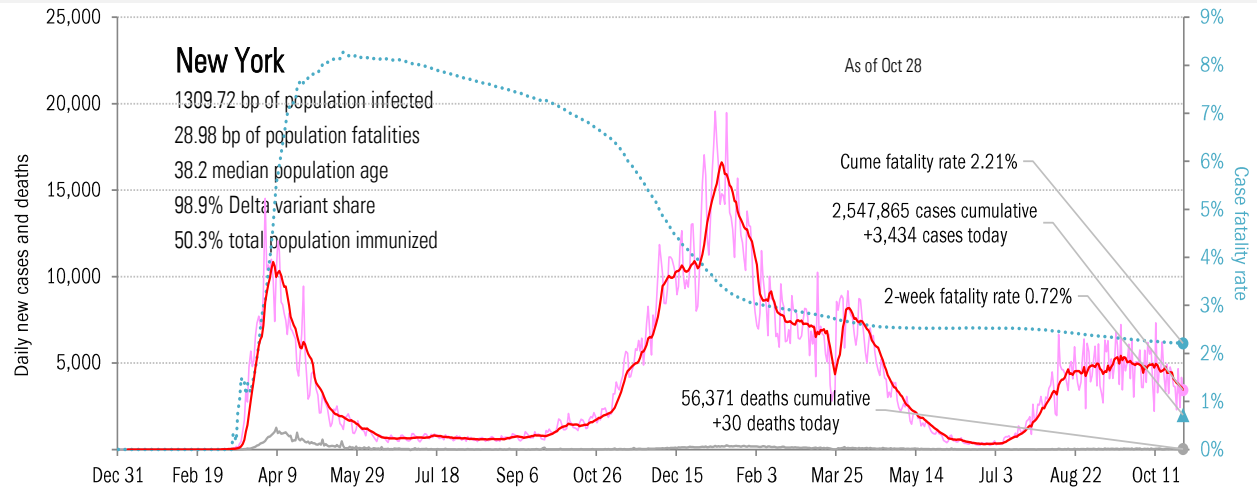
14-day moving average, last 14 days Most recent value displayed ● High ● Low
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

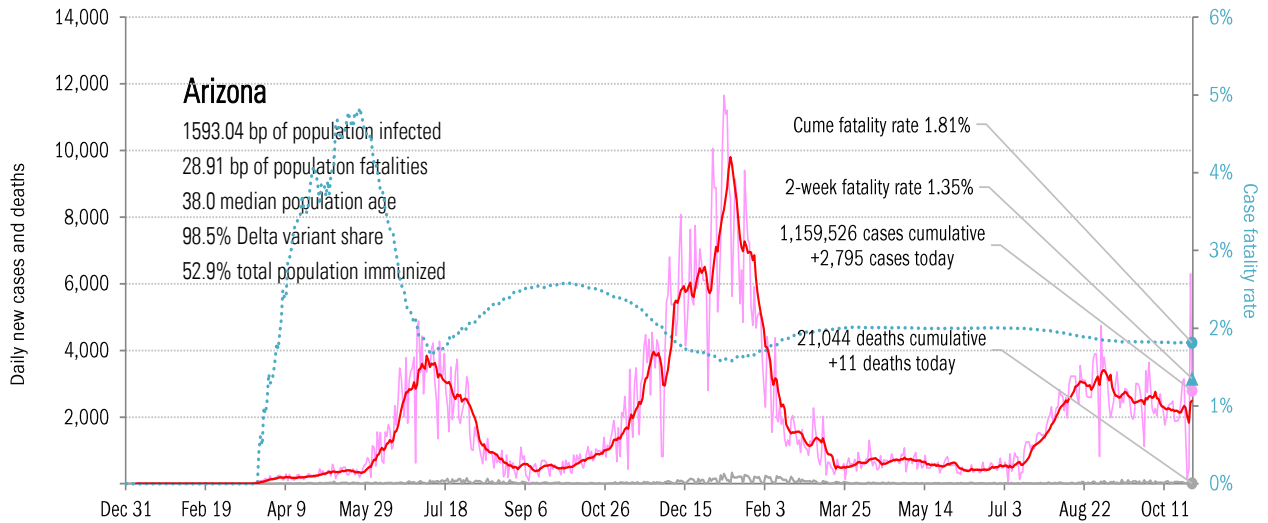
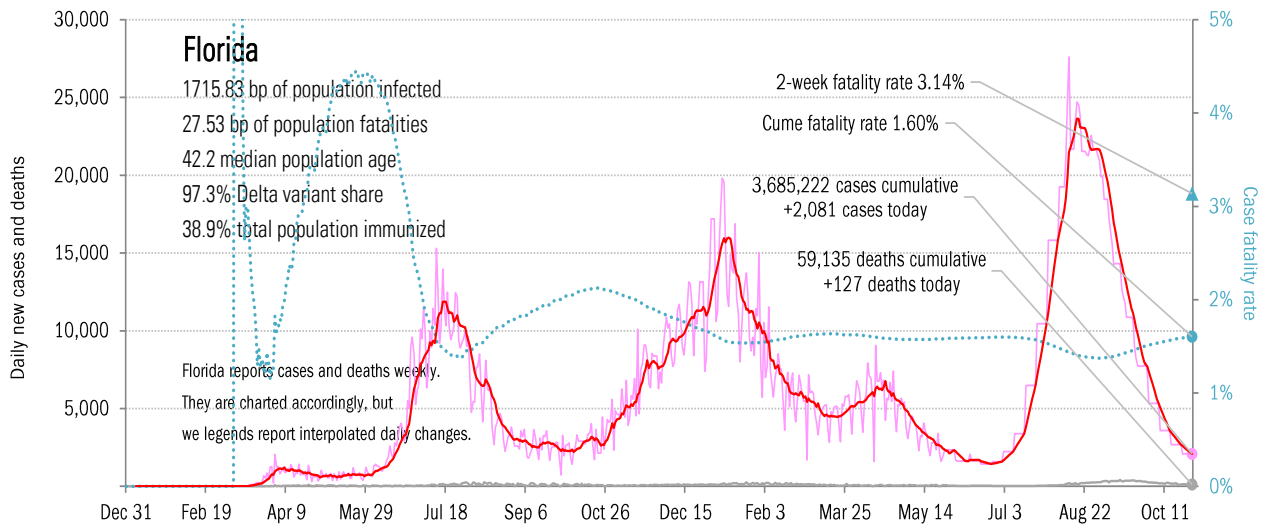
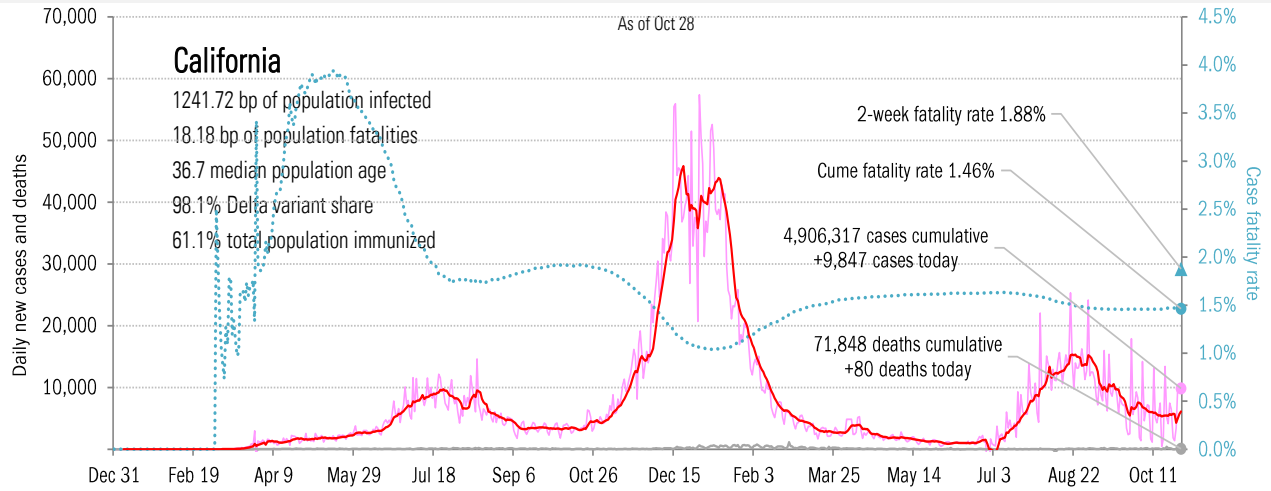
Cases: 7-day average and daily Deaths: Daily



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

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

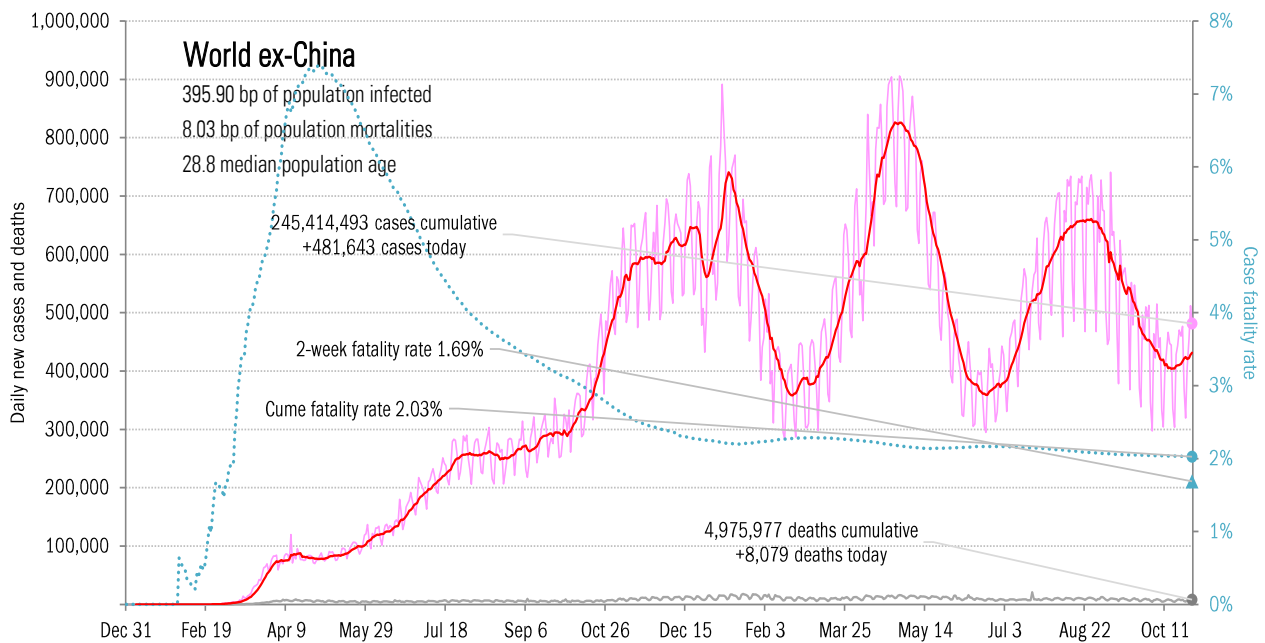
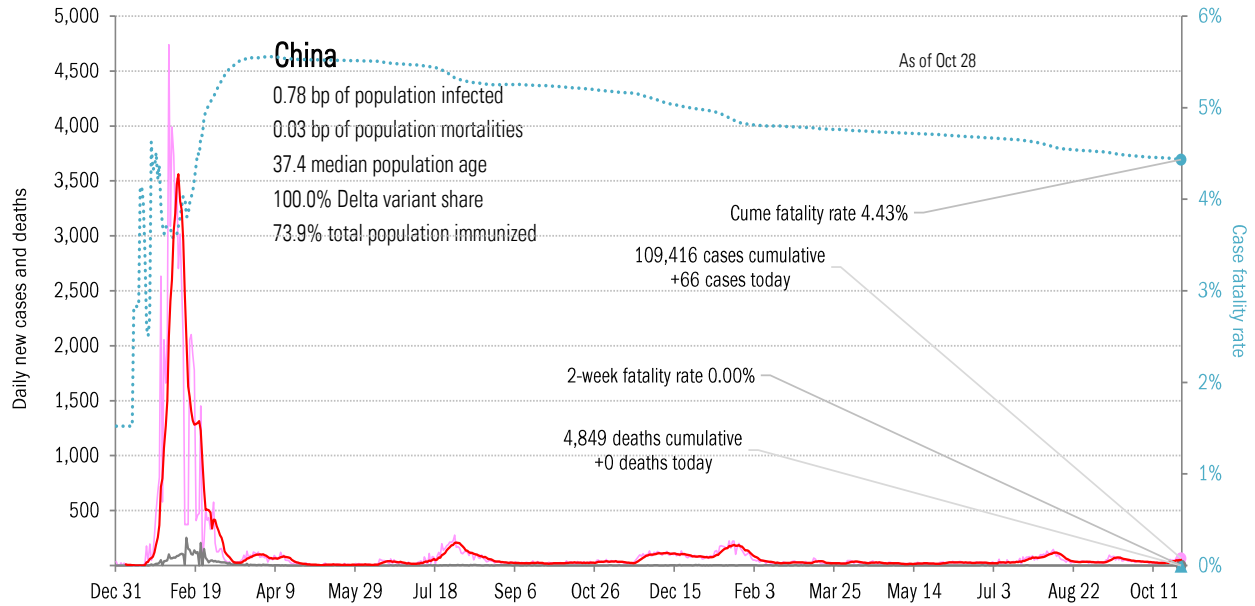
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

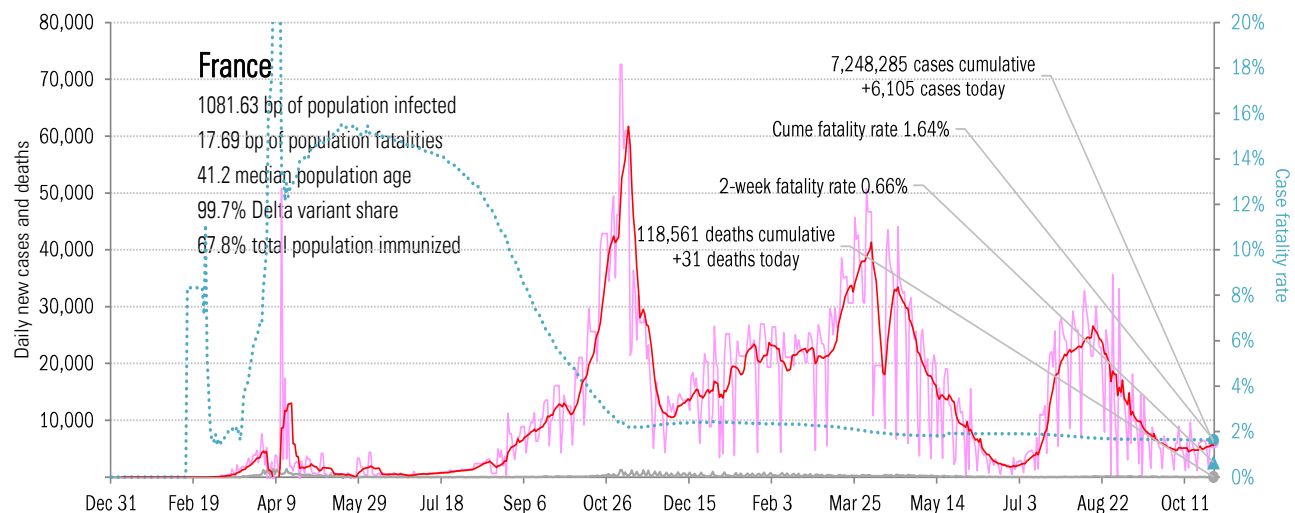
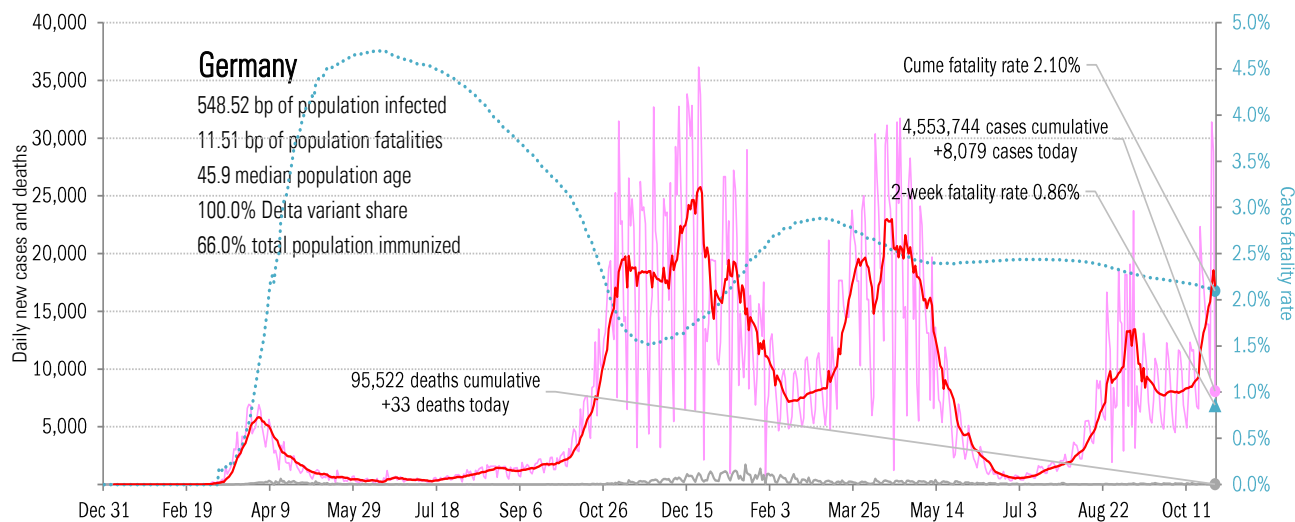
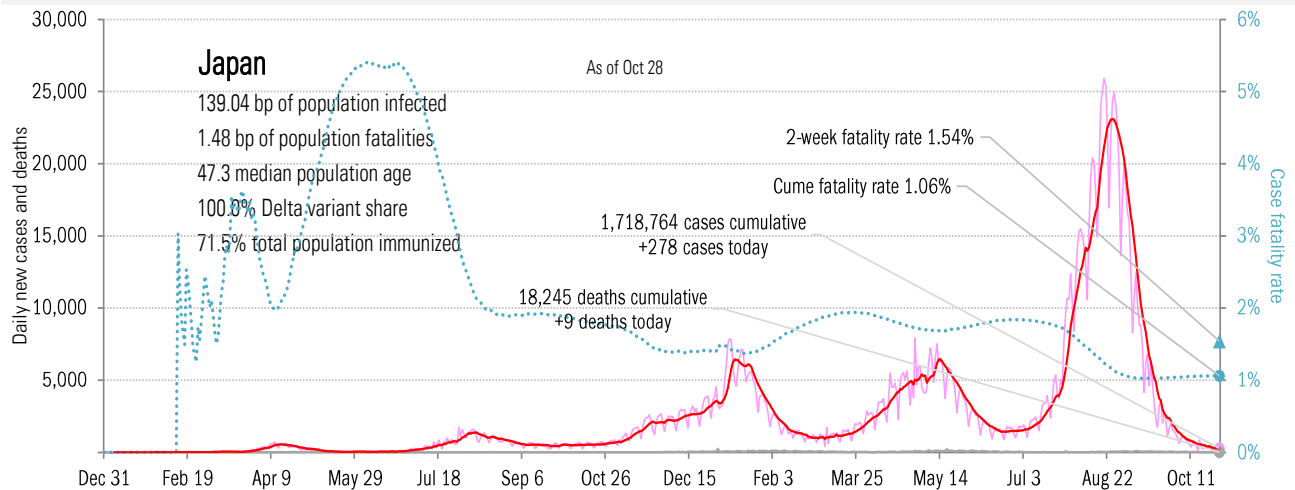
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

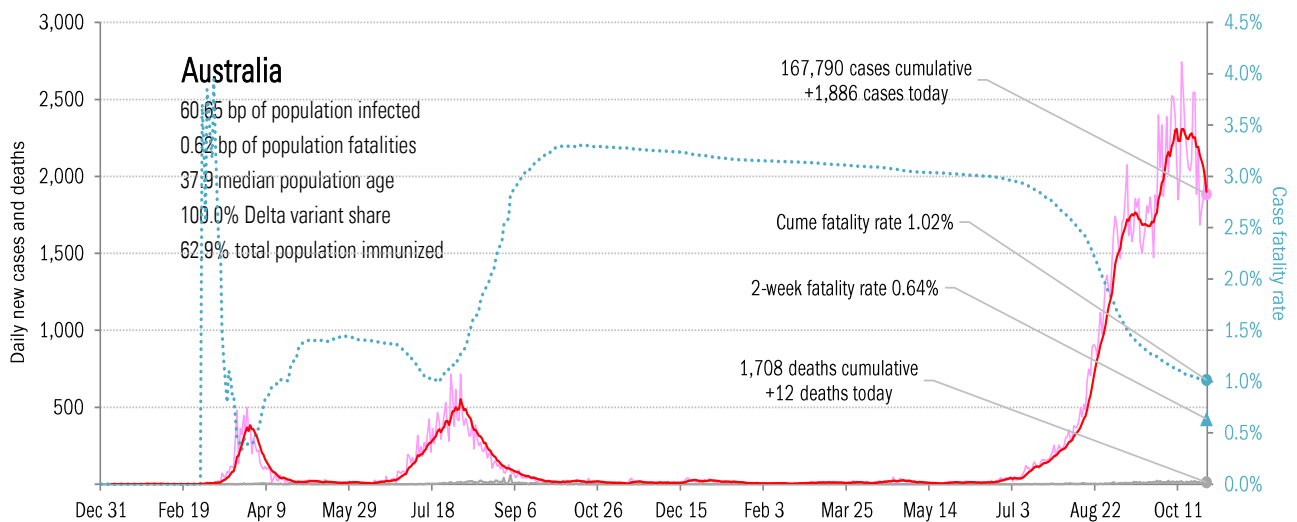
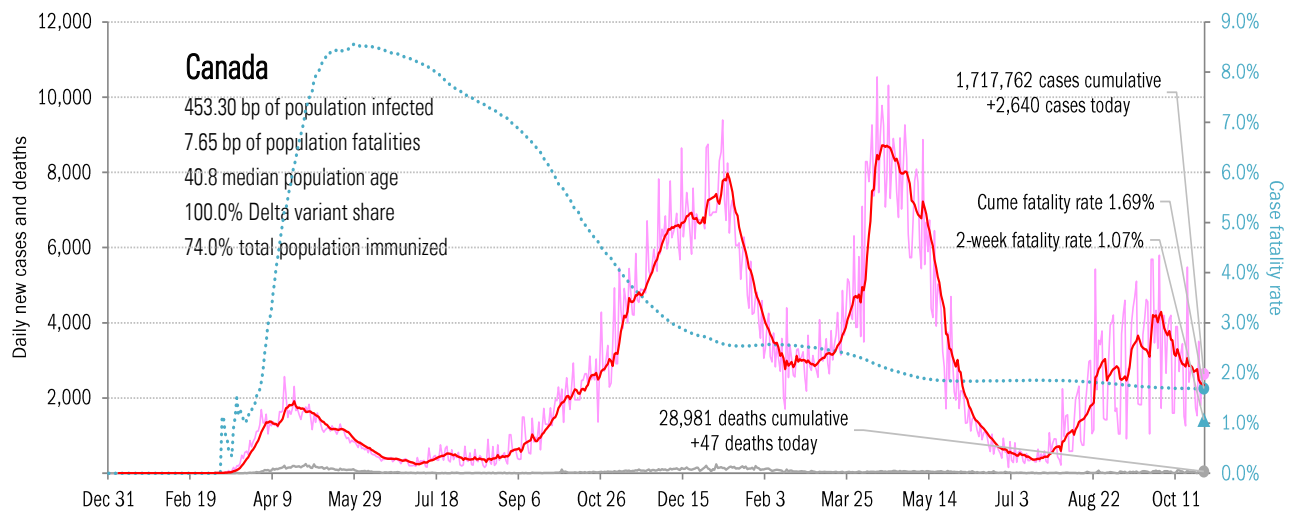
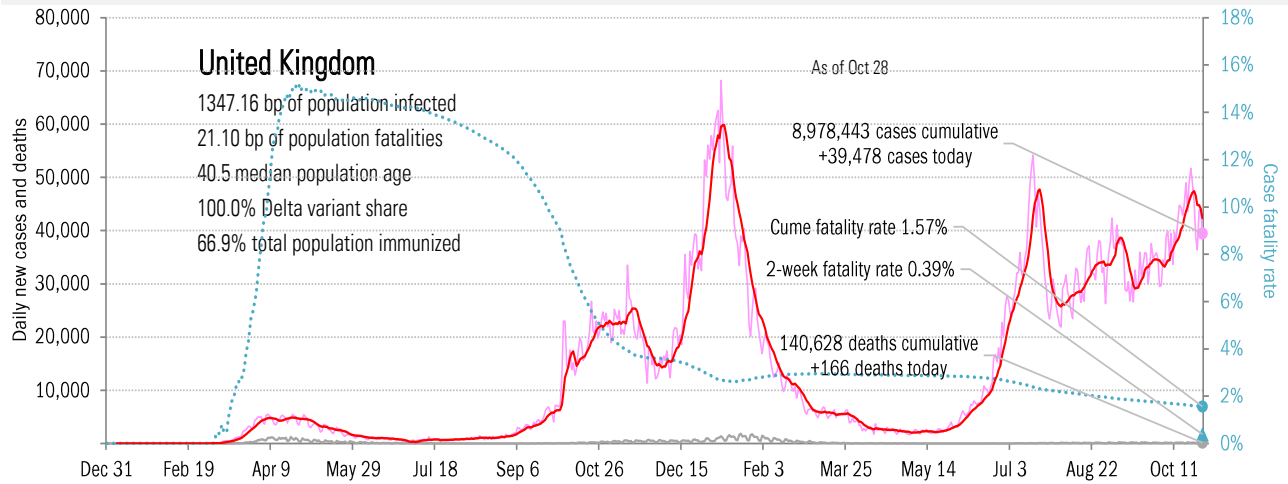
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

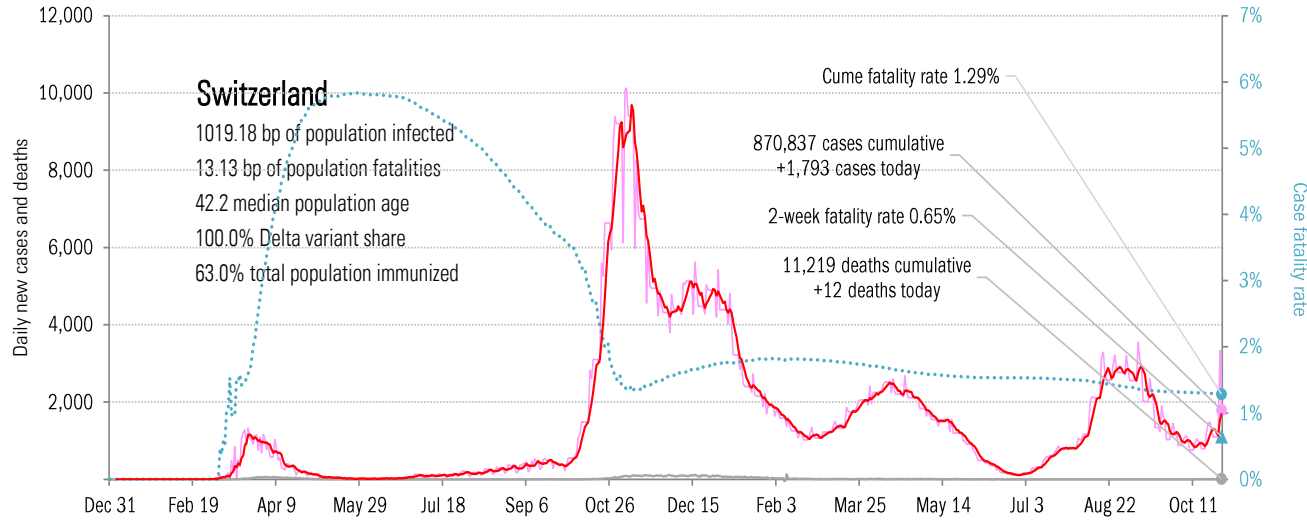
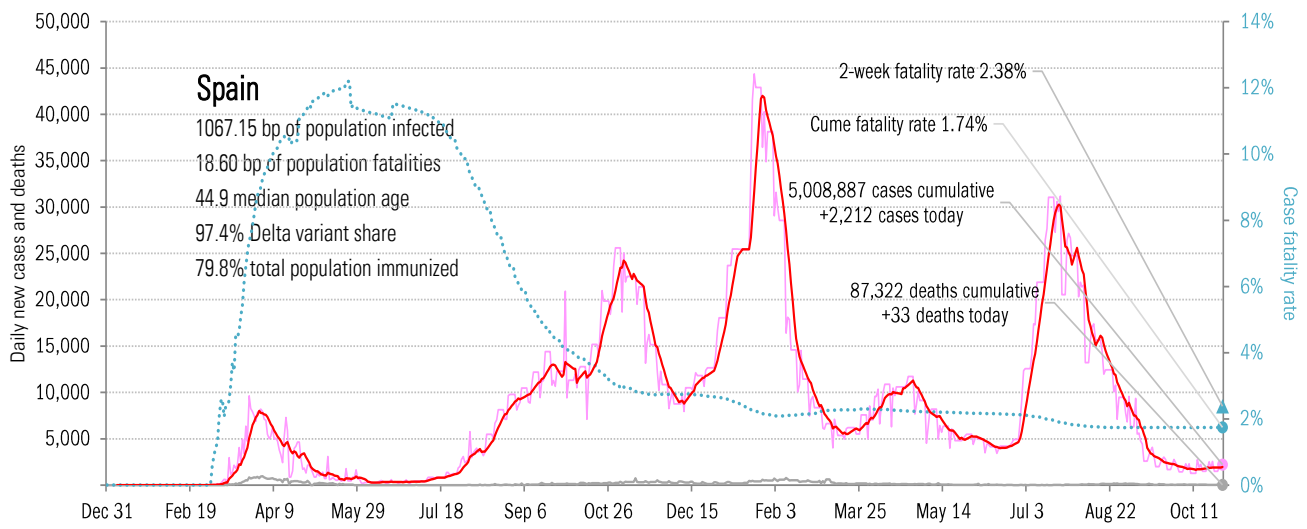
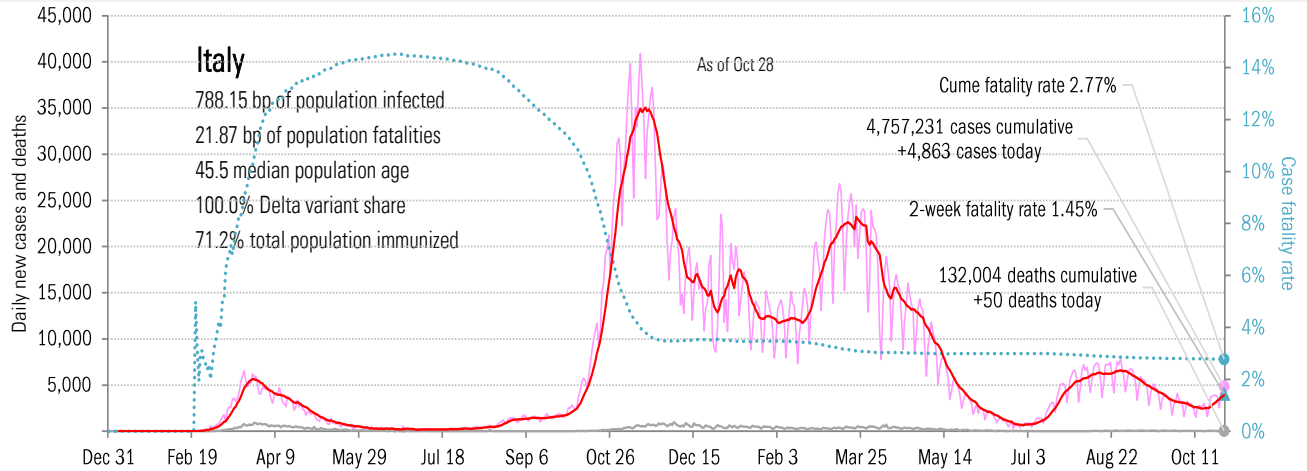
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

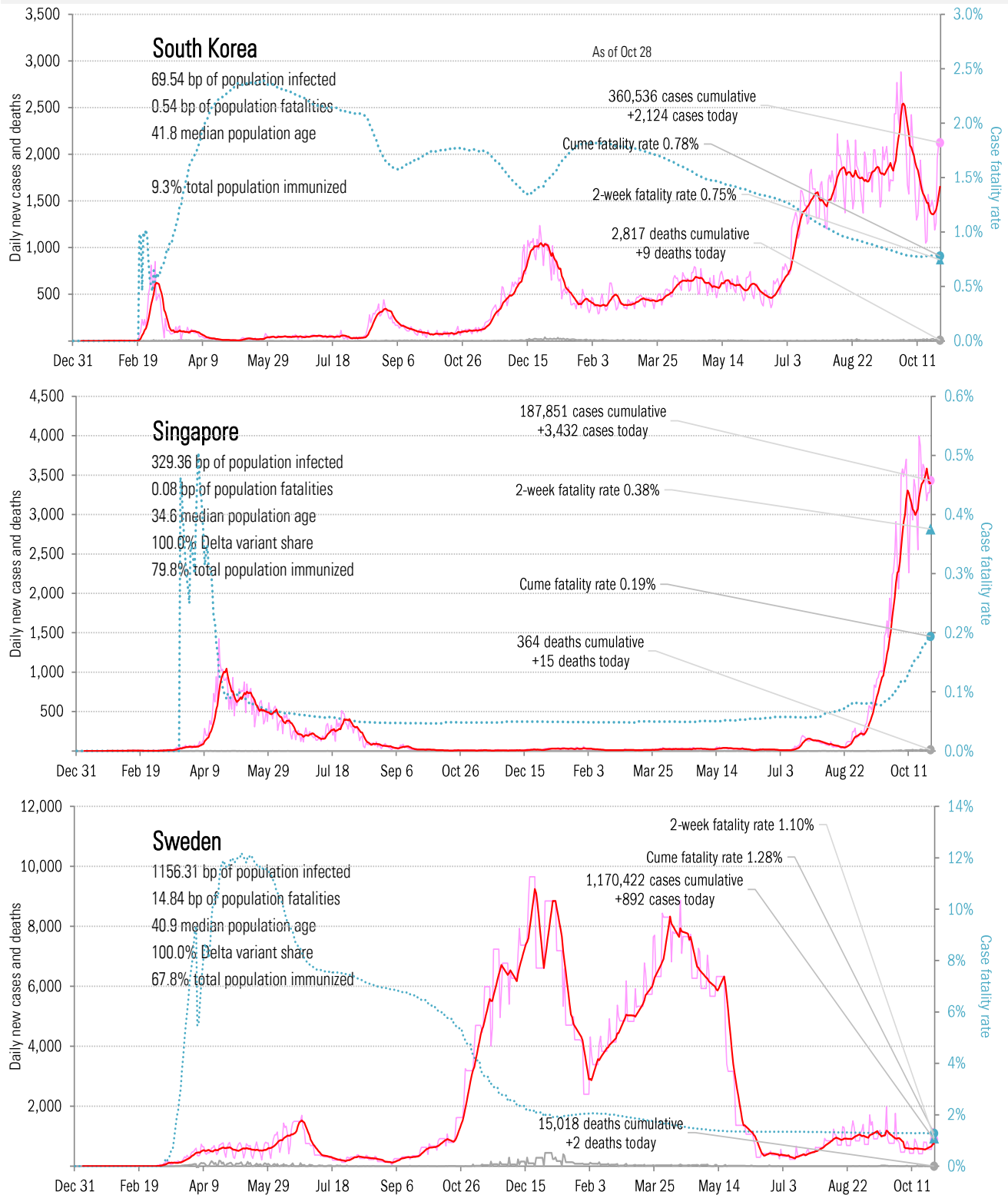
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

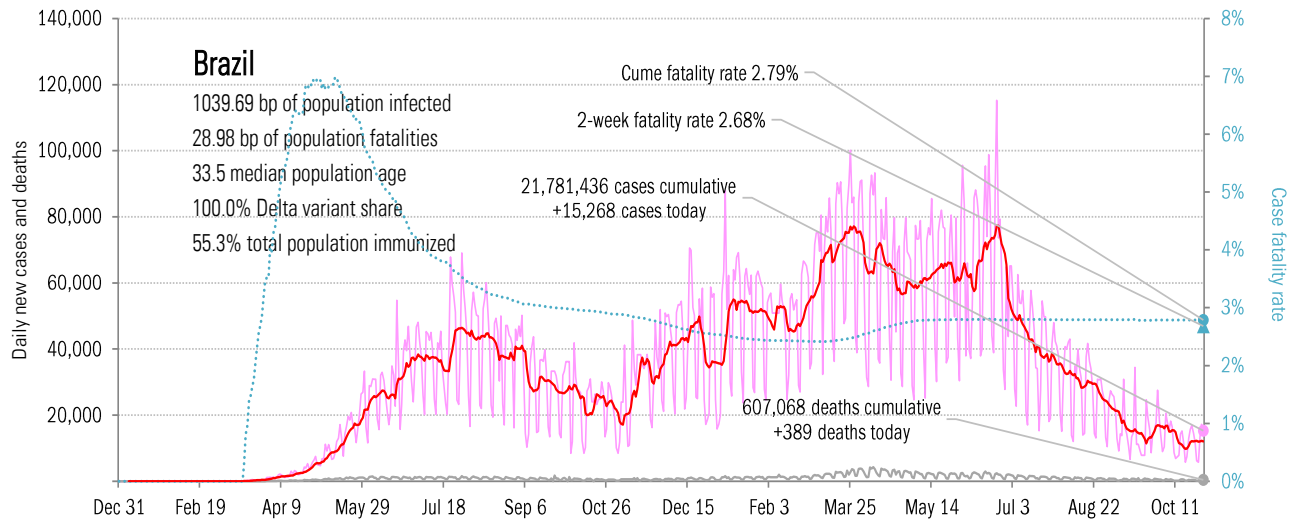
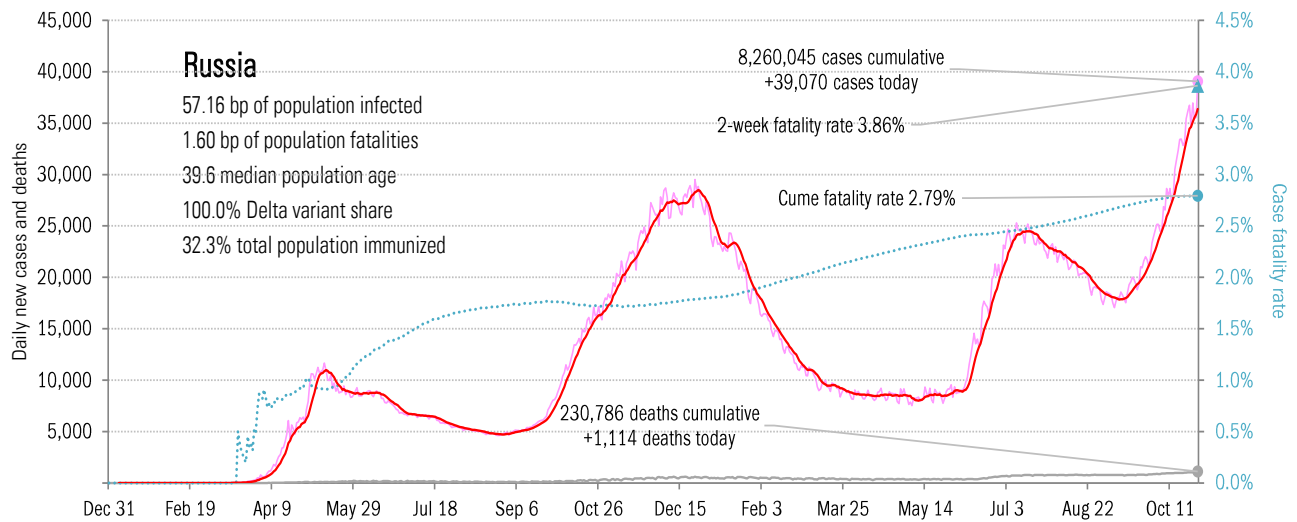
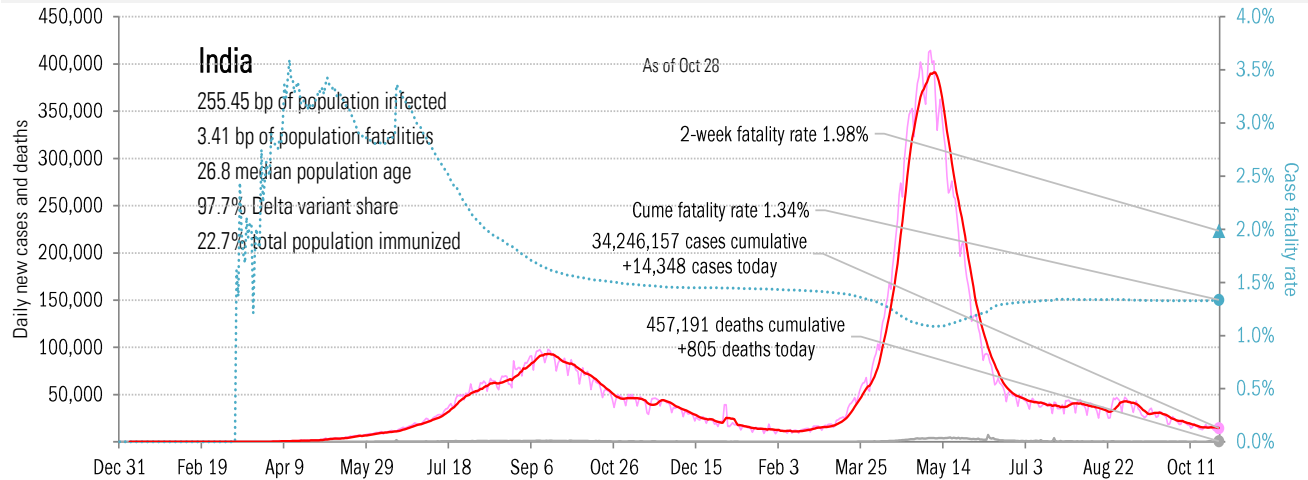
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

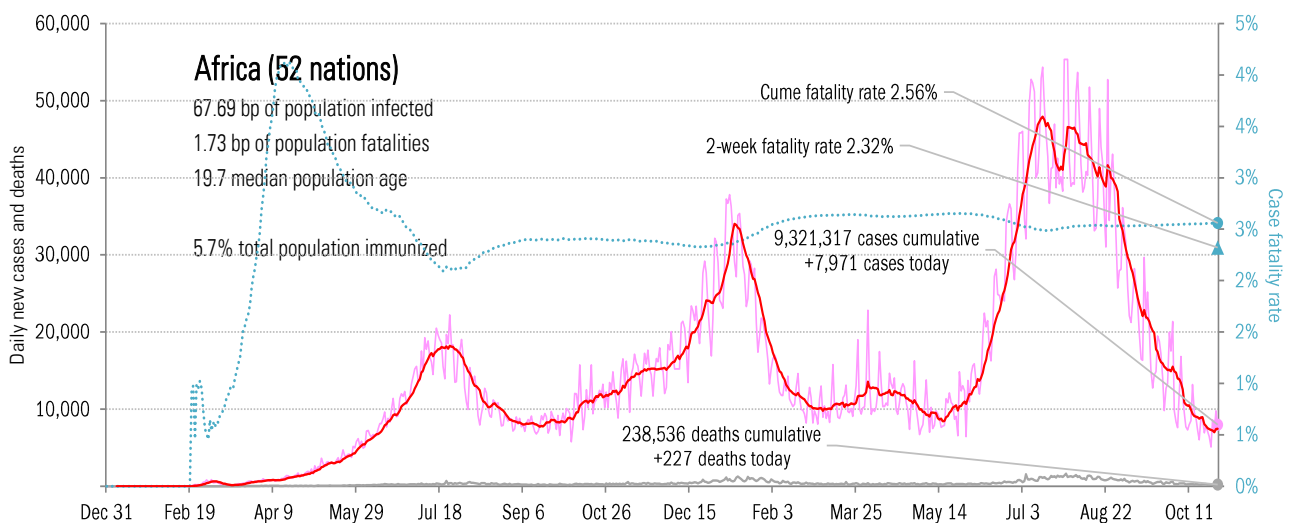
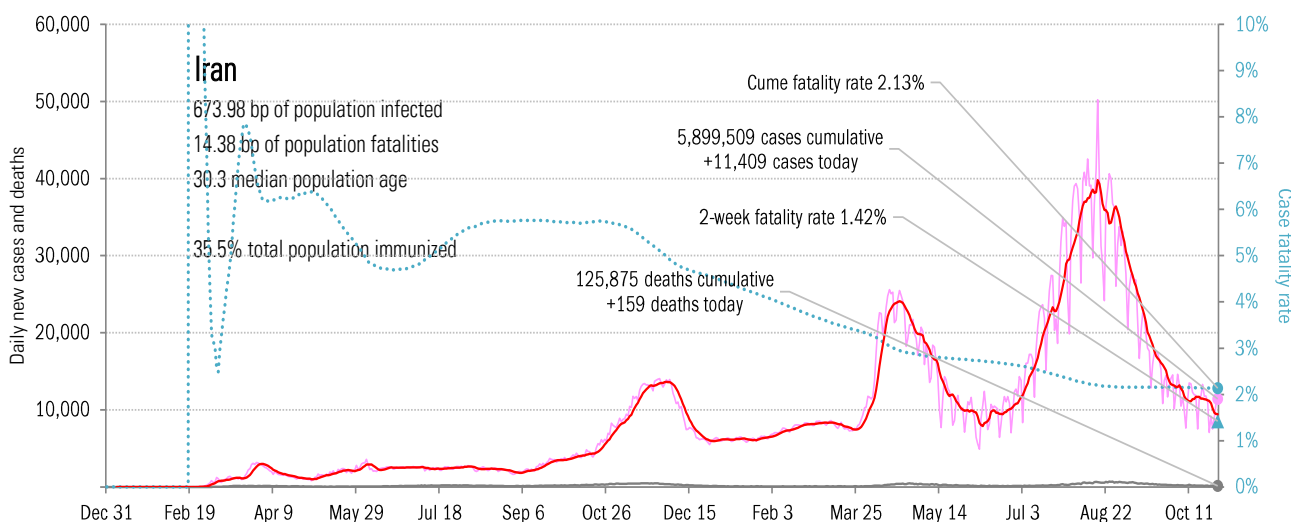
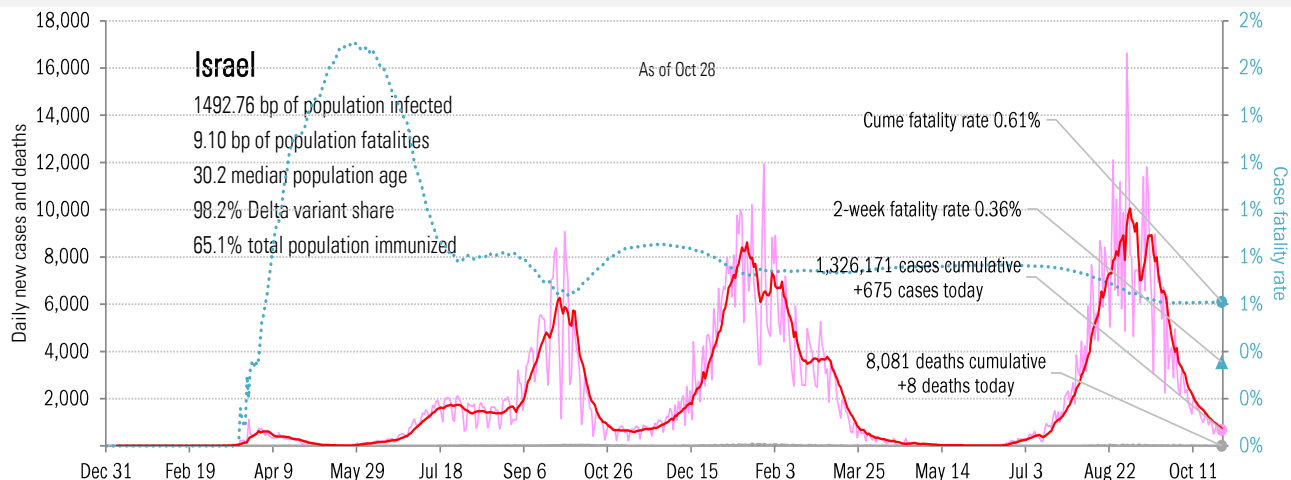
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

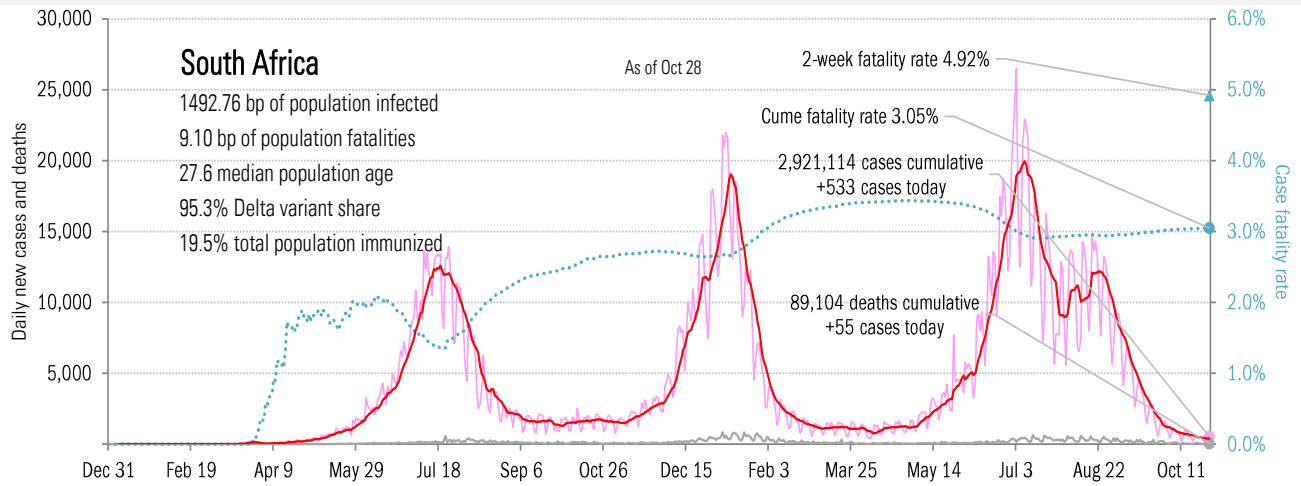
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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