

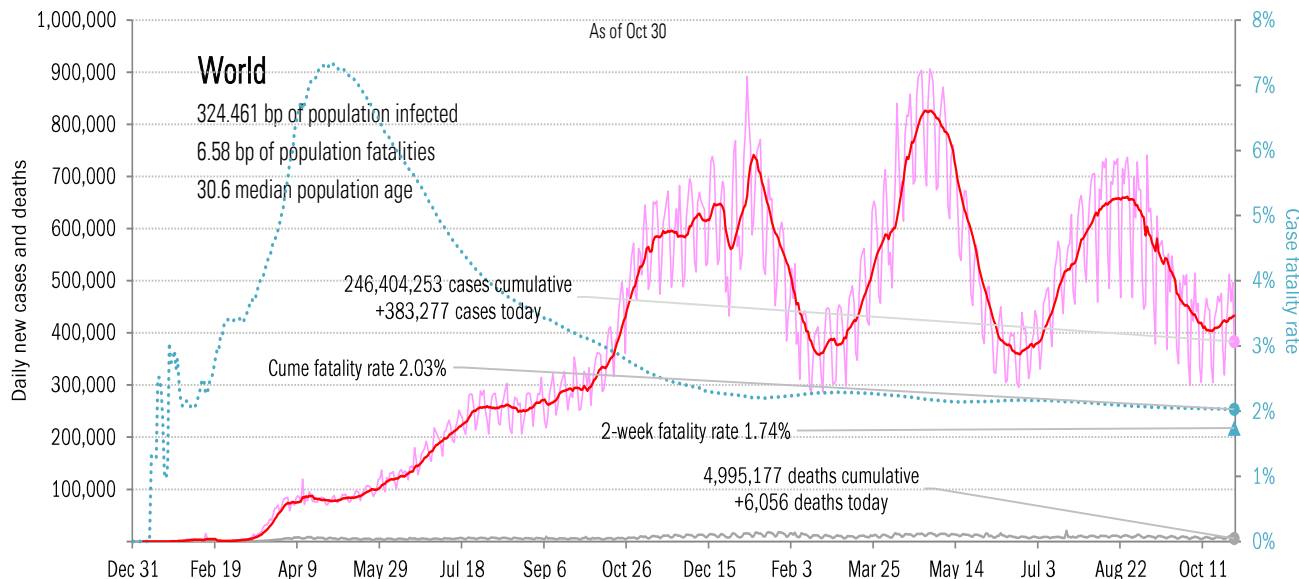
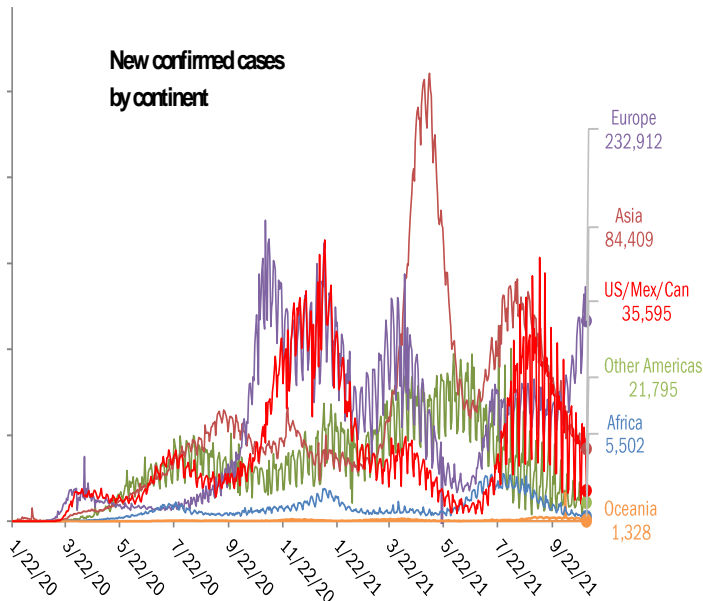
Data Insights: Covid-2019 Monitor

Sunday, October 31, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United Kingdom	+41,009	Russia	+1,132
Russia	+39,203	Ukraine	+569
United States	+31,038	India	+446
Ukraine	+27,246	Philippines	+423
Turkey	+23,096	United States	+415
Germany	+17,248	Romania	+413
India	+12,830	Mexico	+325
Romania	+12,106	Brazil	+232
Brazil	+10,693	Turkey	+203
Poland	+9,806	United Kingdom	+166
+224,275		+4,324	
World	+383,277	World	+6,056
Top ten	59%	Top ten	71%



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

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

Cases: 7-day average and daily Deaths: Daily

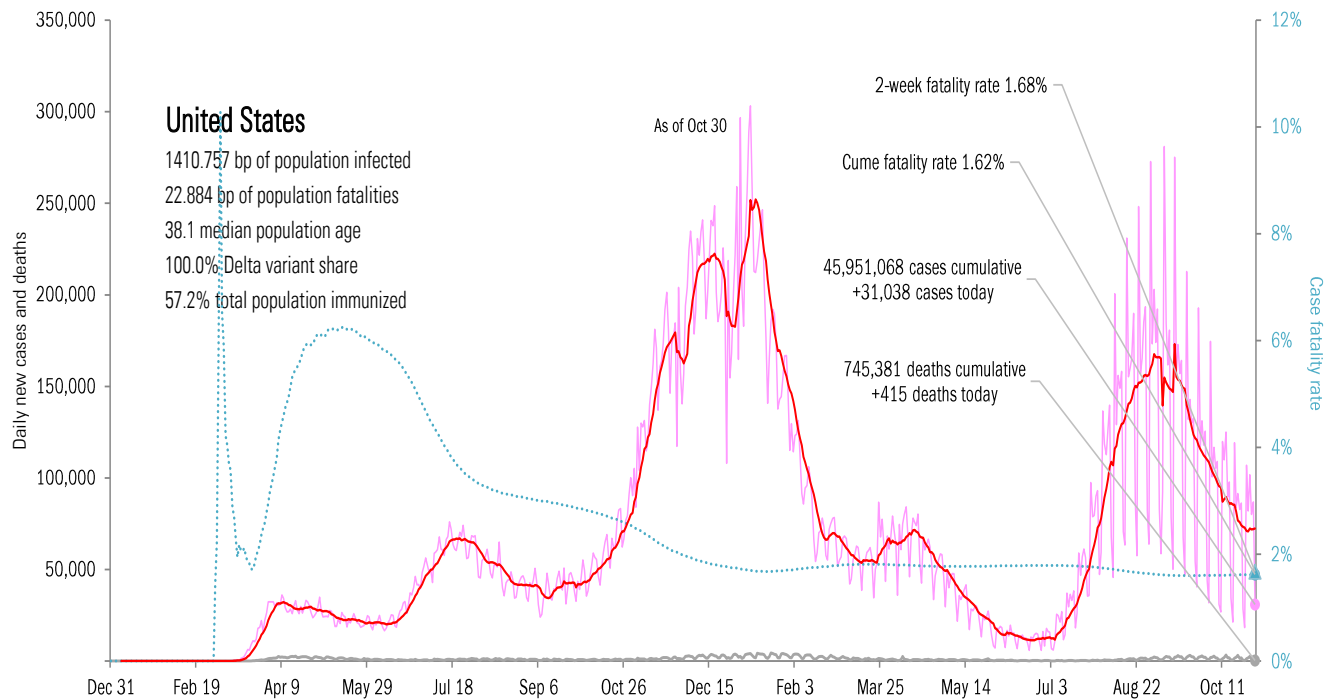
The ten worst US states

New cases			New Deaths			New in hospital			Cumulative cases			Cumulative deaths			Cumulative in hospital			Hospital use		ICU use	
PA	+4,064		FL	+124		MI	+52		CA	4,914,732		CA	71,941		TX	374,189		MA	87%	NM	94%
CH	+3,421		TX	+64		KY	+46		TX	4,238,040		TX	71,139		FL	318,110		RI	87%	RI	90%
NY	+3,182		AZ	+57		AZ	+45		FL	3,688,694		FL	59,383		CA	309,479		MD	85%	ID	90%
TX	+3,044		AL	+41		MO	+29		NY	2,556,628		NY	56,413		NY	163,414		PA	84%	NE	89%
AZ	+2,843		PA	+36		IL	+23		IL	1,695,524		PA	31,413		GA	159,218		MI	83%	KY	87%
IA	+2,396		NE	+21		AR	+17		GA	1,634,093		GA	29,065		CH	122,856		WA	83%	TX	86%
FL	+1,736		AR	+17		GA	+17		PA	1,561,523		IL	28,204		PA	116,235		NY	83%	MT	86%
NE	+1,613		MD	+17		MN	+17		CH	1,542,911		NJ	27,972		KY	111,027		MN	82%	NV	85%
CA	+1,408		NJ	+11		OK	+17		NC	1,477,514		CH	24,527		IL	104,554		MO	82%	MI	85%
NJ	+1,230		HI	+10		CO	+14		TN	1,280,265		MI	23,662		MI	90,985		CT	81%	AK	85%
+24,937			+398			+277			24,589,924			423,719			1,870,067						
All states +31,038			+415			-43			All states 45,951,068			745,381			3,341,417			All states 70%		67%	
Top ten 80%			96%			-644%			Top ten 53%			57%			56%			Median 76%		78%	

Some states not reporting

Five most improved US states

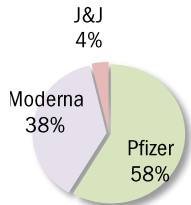
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-9,722	CH	-363	CA	-58	UT	+30 bp
FL	-6,561	MI	-136	NY	-39	GA	+20 bp
CA	-5,174	GA	-126	NM	-34	AR	+10 bp
MN	-3,317	TX	-125	MT	-31	AZ	+10 bp
CO	-3,295	CA	-115	VA	-15	CA	+10 bp



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

Rolling out the vaccines in the US and the world

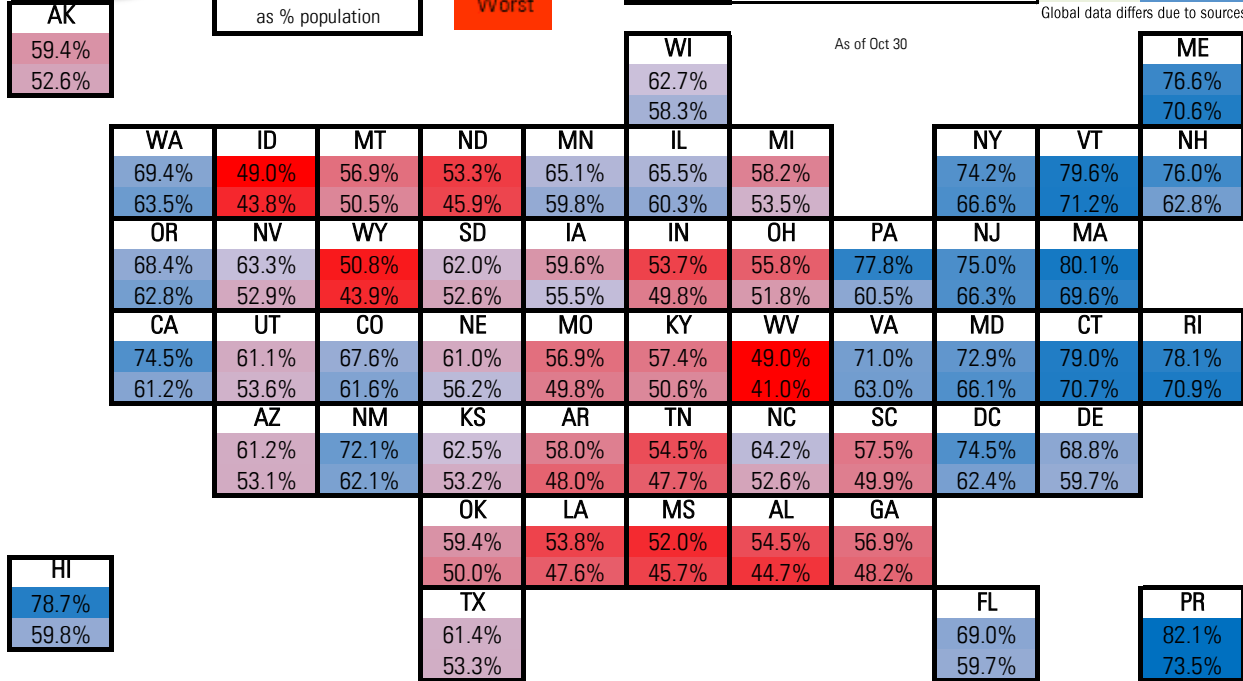
Administered	Cumulative		Today		Immunity	Full	Partial	
Doses	432,435,189		+1.665 million		US	57.2%	65.8%	
Boosters	18,024,951		+1.055 million		UK	67.0%	73.2%	
	One dose	% Pop	Immune	% pop	New immune today	France	67.9%	75.7%
Total population	226,884,951	68%	197,250,237	59%	+0.244 million	Spain	79.8%	81.4%
Age 12 to 17	14,163,407	60%	11,873,404	50%	+0.020 million	Germany	66.1%	68.8%
Age 18 to 64	156,760,063	77%	136,202,560	67%	+0.173 million	Italy	71.4%	77.2%
Age 65 and over	54,851,641	100%	48,254,954	88%	+0.050 million	Australia	63.9%	74.3%
						Israel	65.2%	70.9%
						Canada	74.2%	78.4%
						Japan	71.5%	77.5%
						Africa	5.8%	8.7%
						India	23.4%	52.5%
						Brazil	55.3%	74.4%
						China	74.1%	76.2%



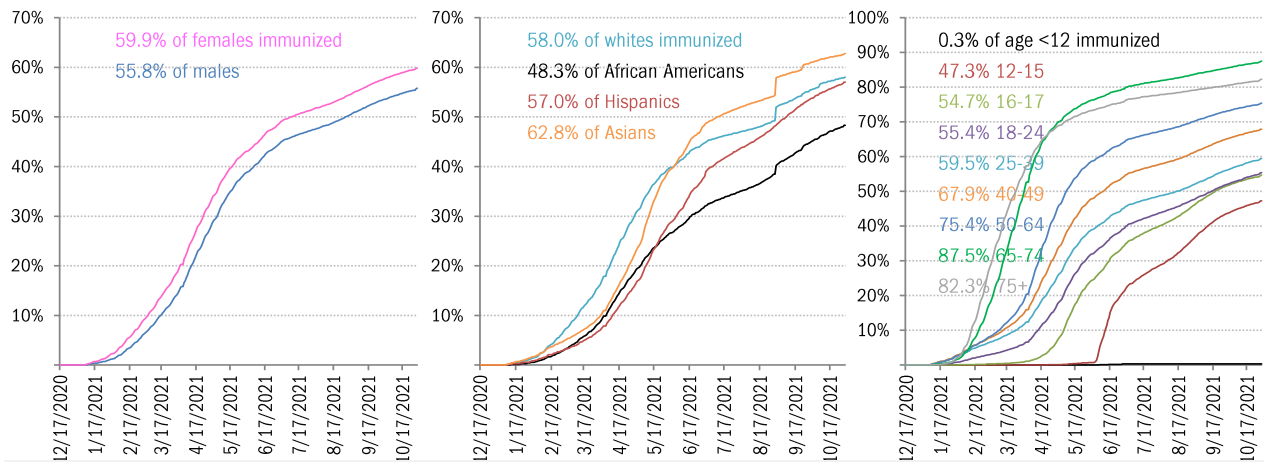
State	Best
At least partial immunity as % population	Middle
Full immunity as % population	Worst

Every American >18 immunized in **39 days** by Dec 8, 2021
 71.4% of population >18 immunized
 16.4% previously tested positive
87.8% vs 60% adult herd immunity

Global data differs due to sources, timing



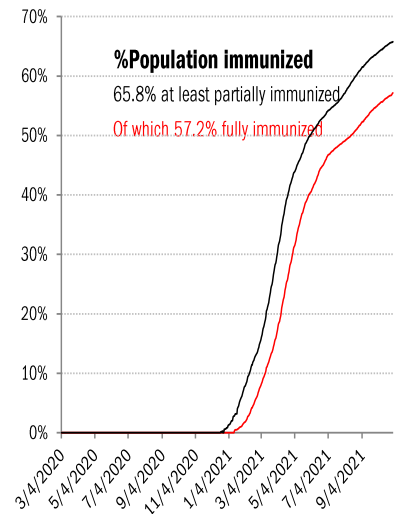
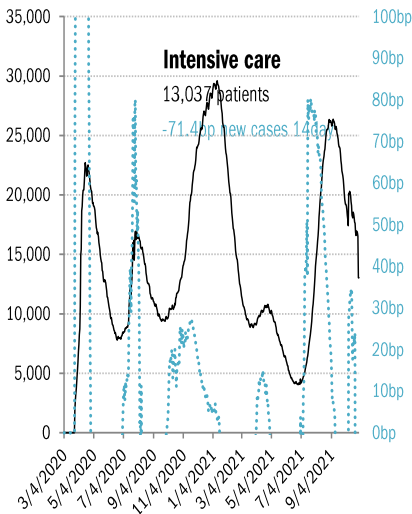
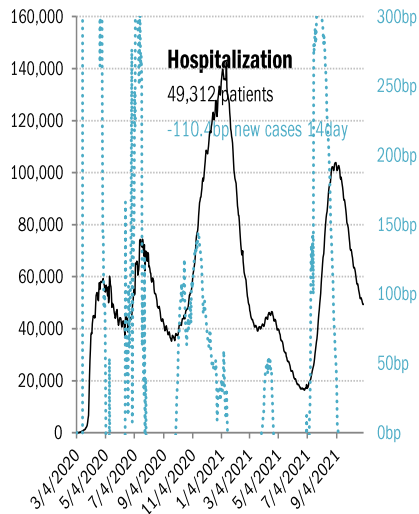
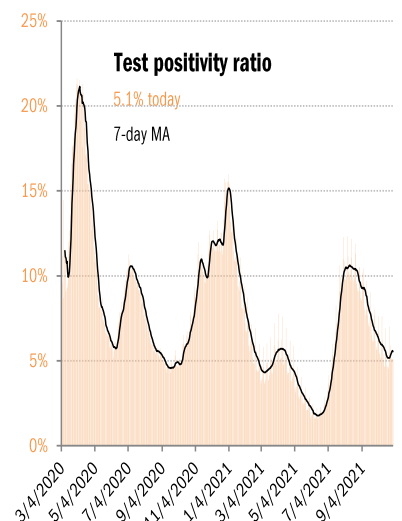
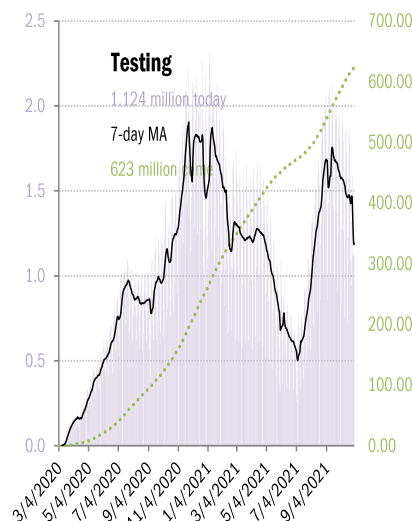
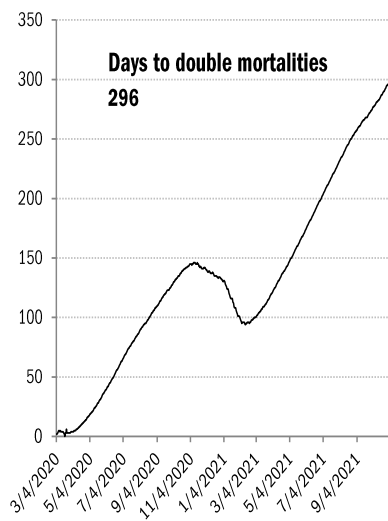
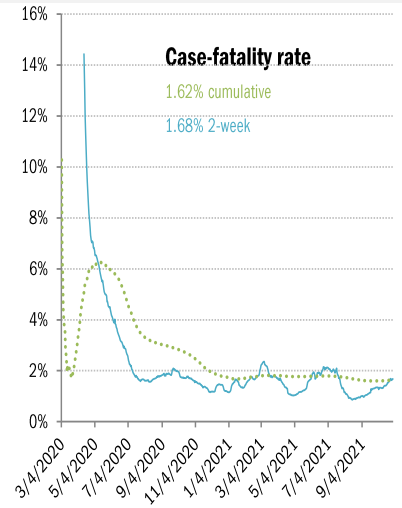
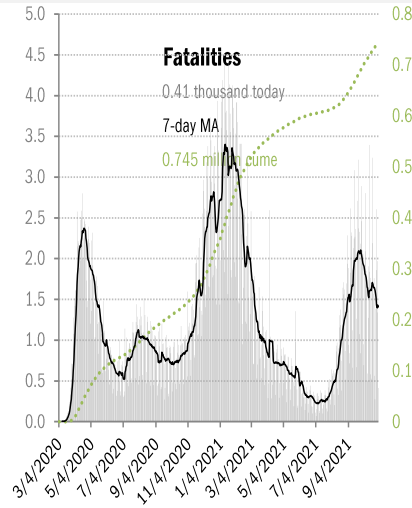
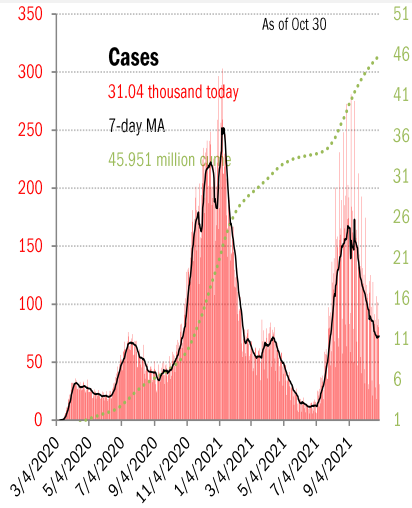
The demographics of US vaccination



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

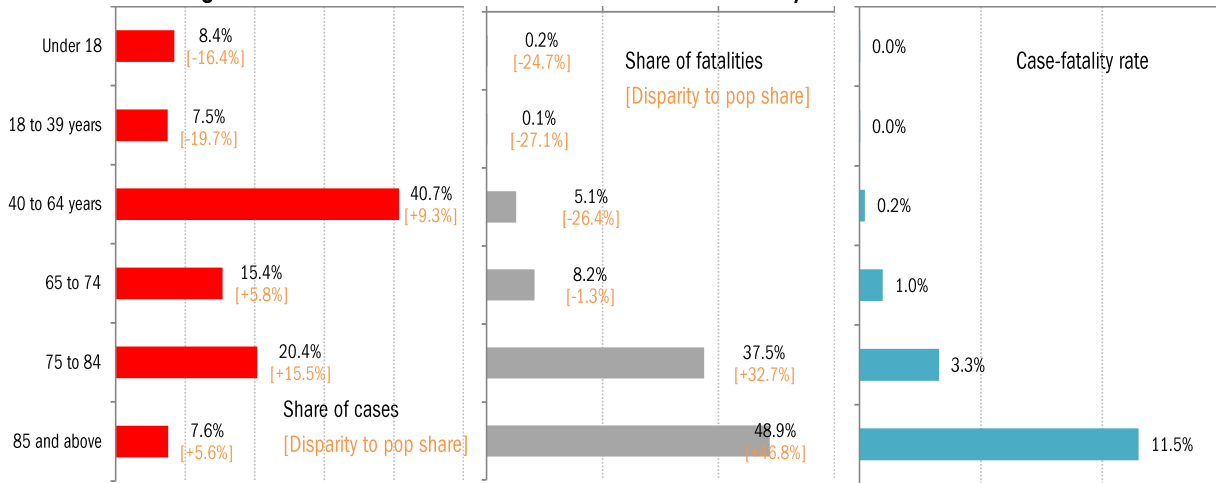
US deep-dive

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

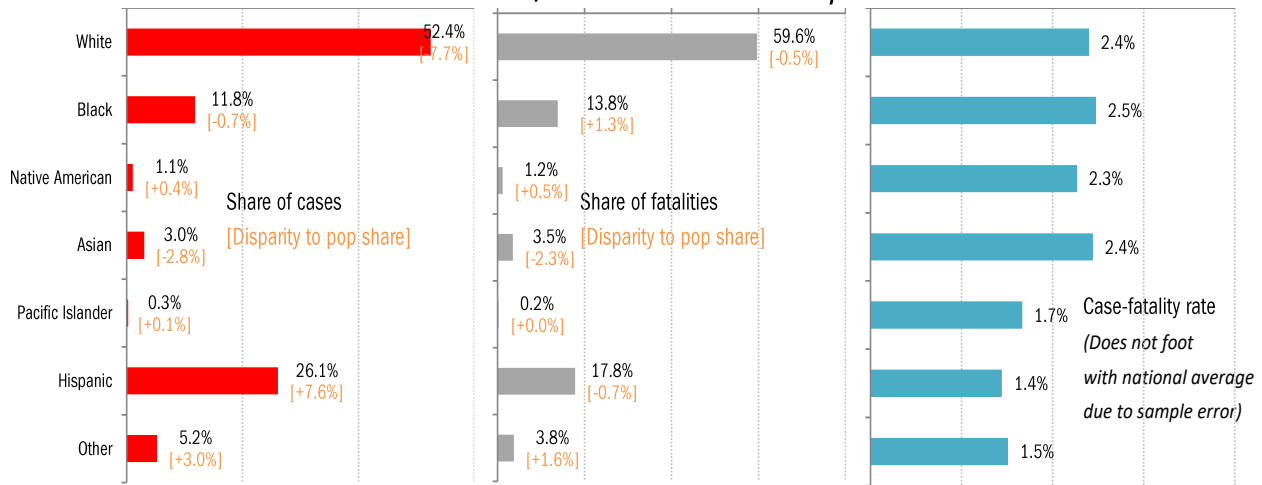


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

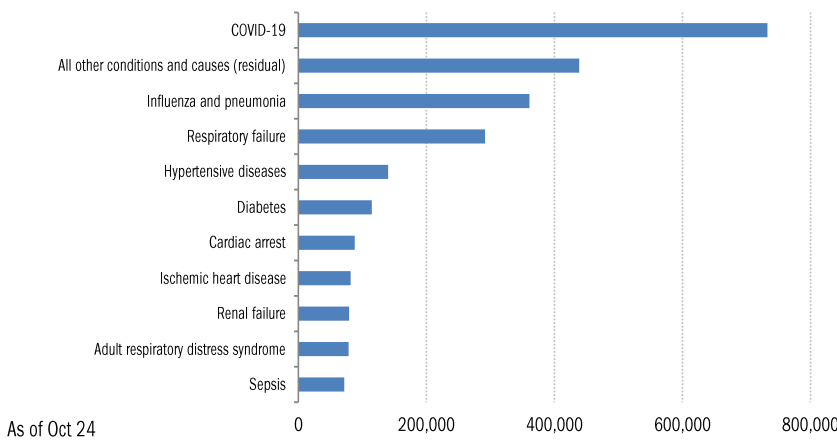


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



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

[Covid Shots Are a Go for Children, but Parents Are Reluctant to Consent](#)

Jan Hoffman
New York Times
October 30, 2021

[Vax mandate could force FDNY companies to close, as NYPD faces street cop shortage](#)

Craig McCarthy, Kevin Sheehan, Larry Celona and Bruce Golding
New York Post
October 27, 2021

[Pressure Grows on G20 Nations to Get Covid Vaccines to the Poor](#)

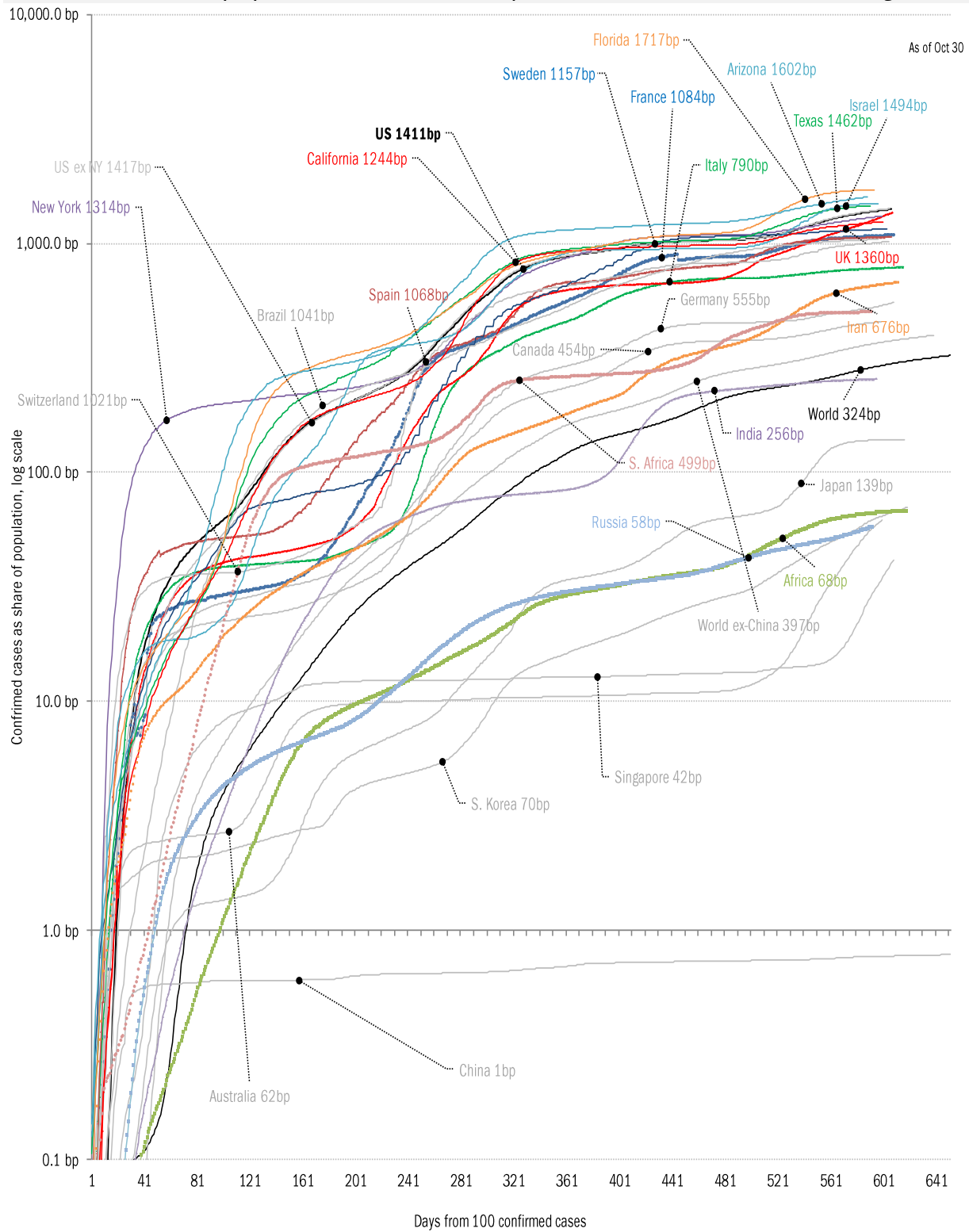
Katie Rogers, Jim Tankersley and Jason Horowitz
New York Times
October 20, 2021

Meme of the day



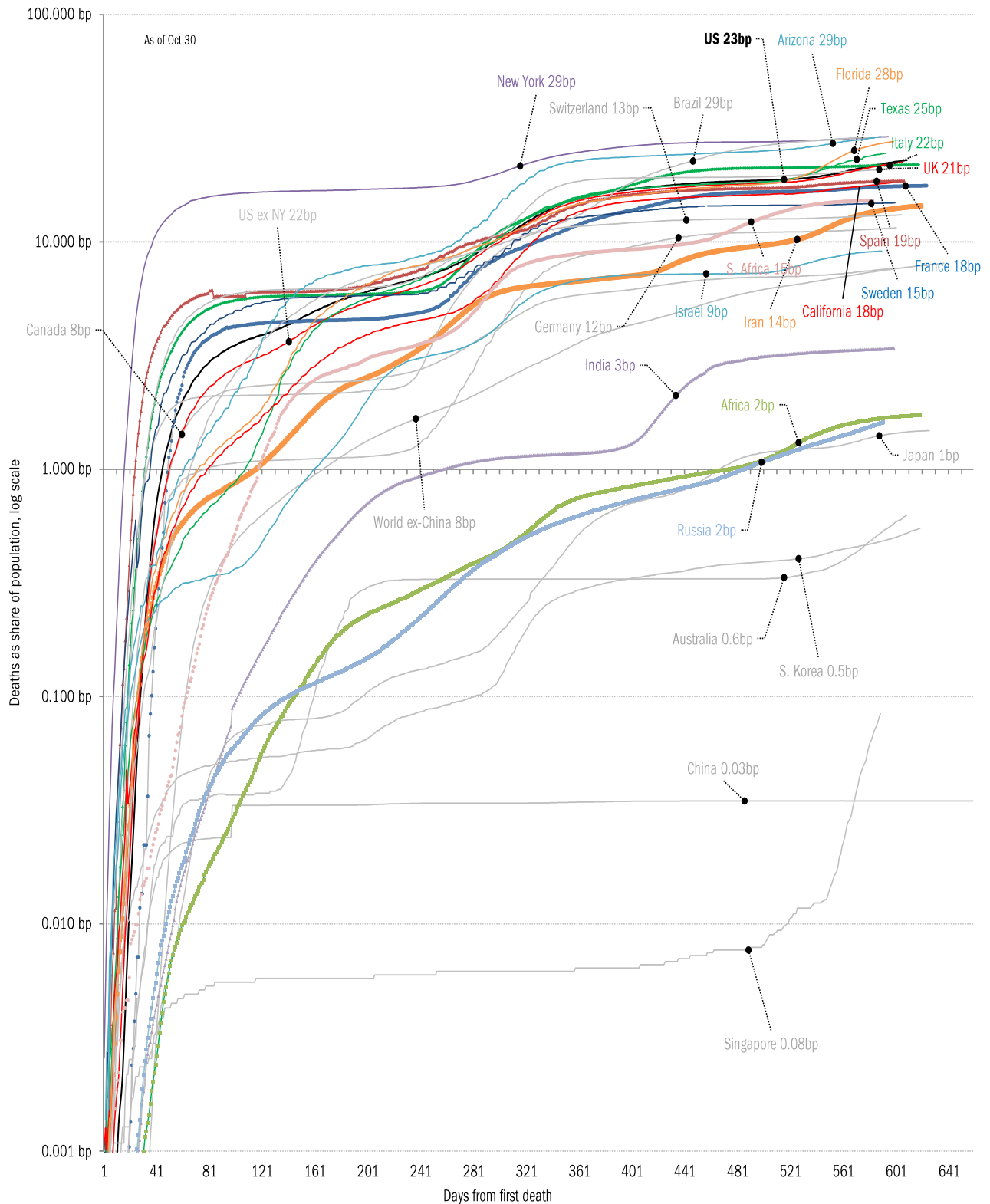
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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](https://www.jhu.edu/), TrendMacro calculations

The coronavirus mortality accelerometer ... tracking the world's fatality curves
Share of deceased population from day of first fatality, log scale

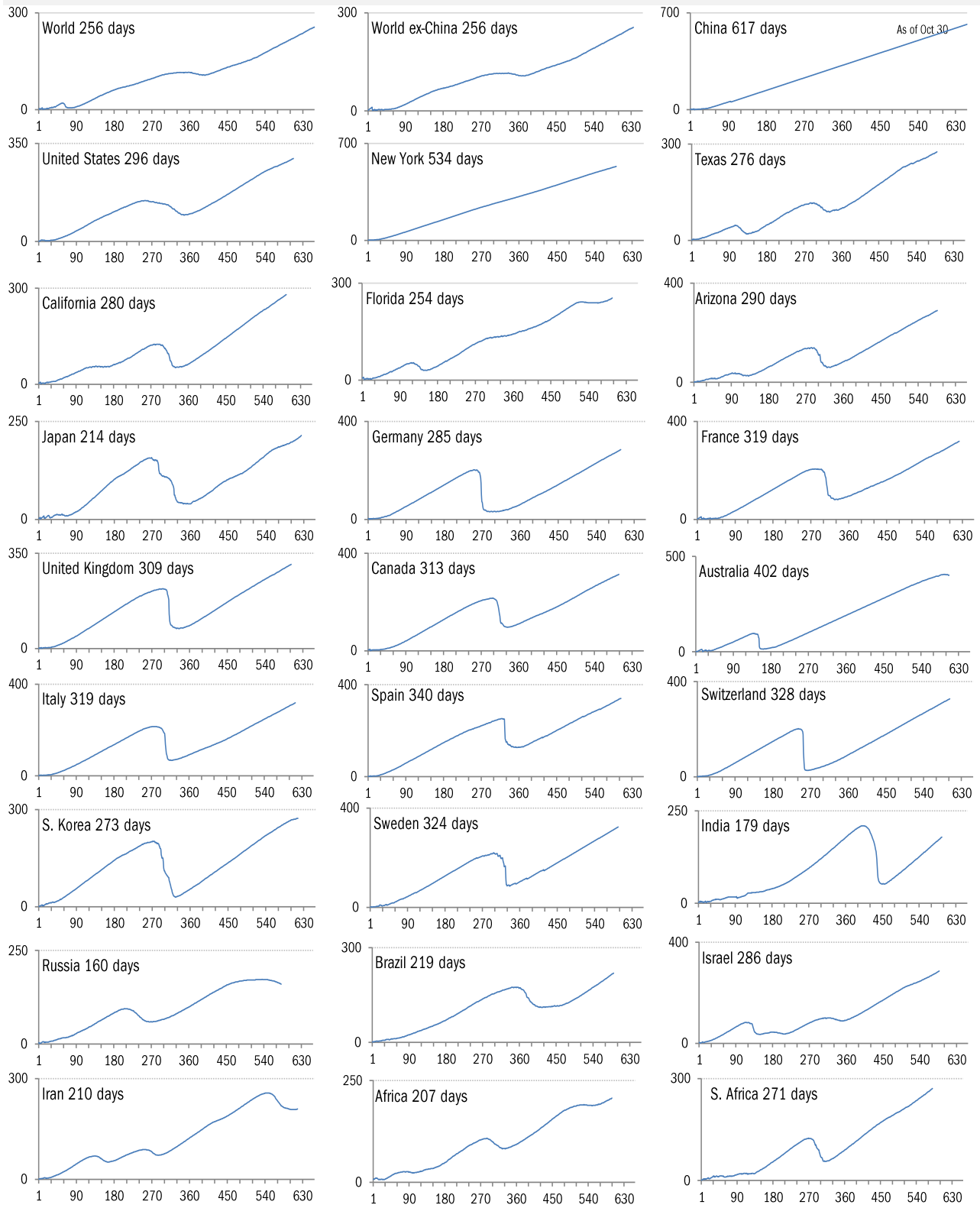


Source: [Johns Hopkins](#), TrendMacro calculations

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

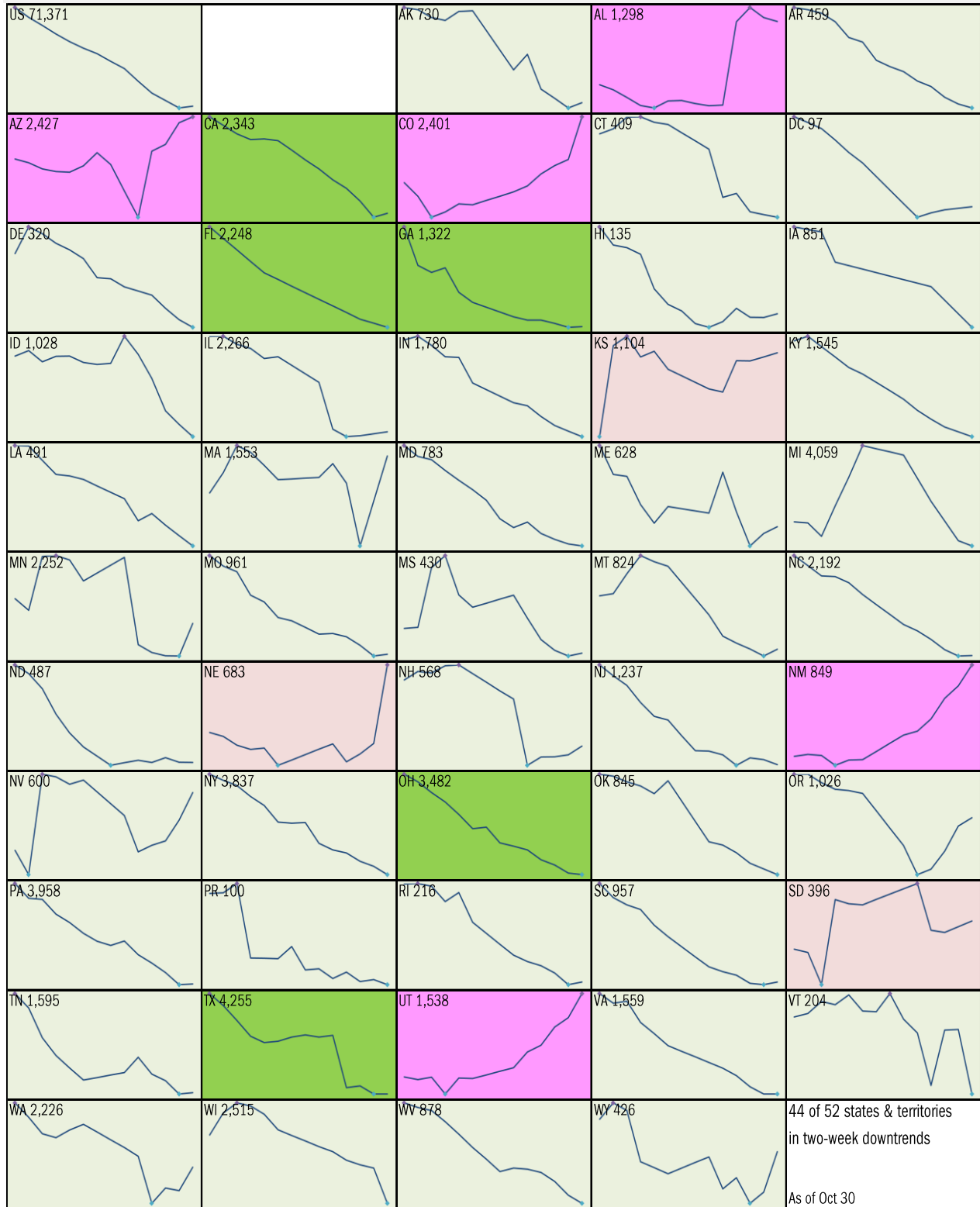
Vertical: days to double deaths Horizontal: days from first death

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



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

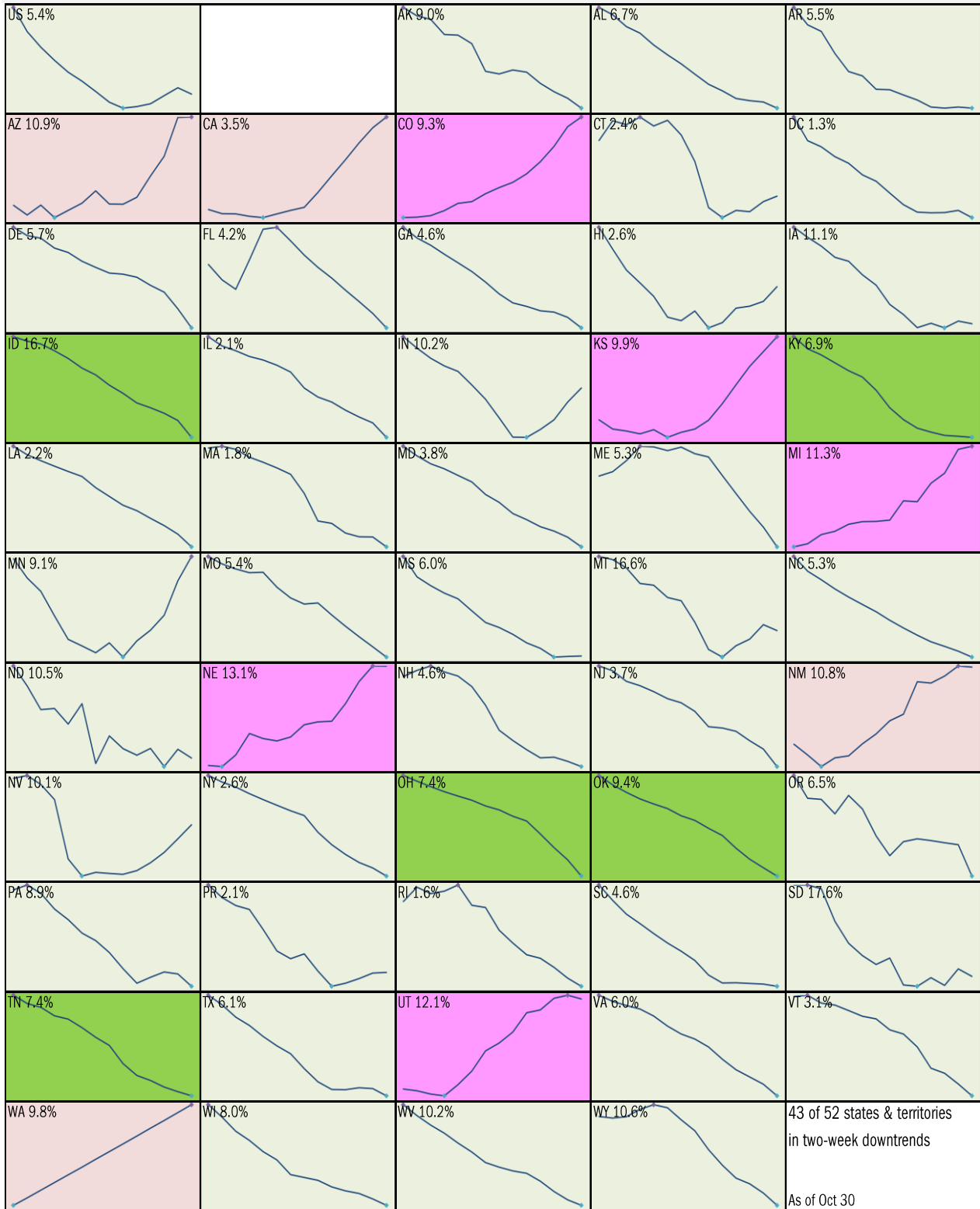
Requirement to [Open Up America Again](#): 14-day "downward trajectory" in new cases
 14-day moving average, last 14 days *Most recent value displayed* ● High ● Low
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

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

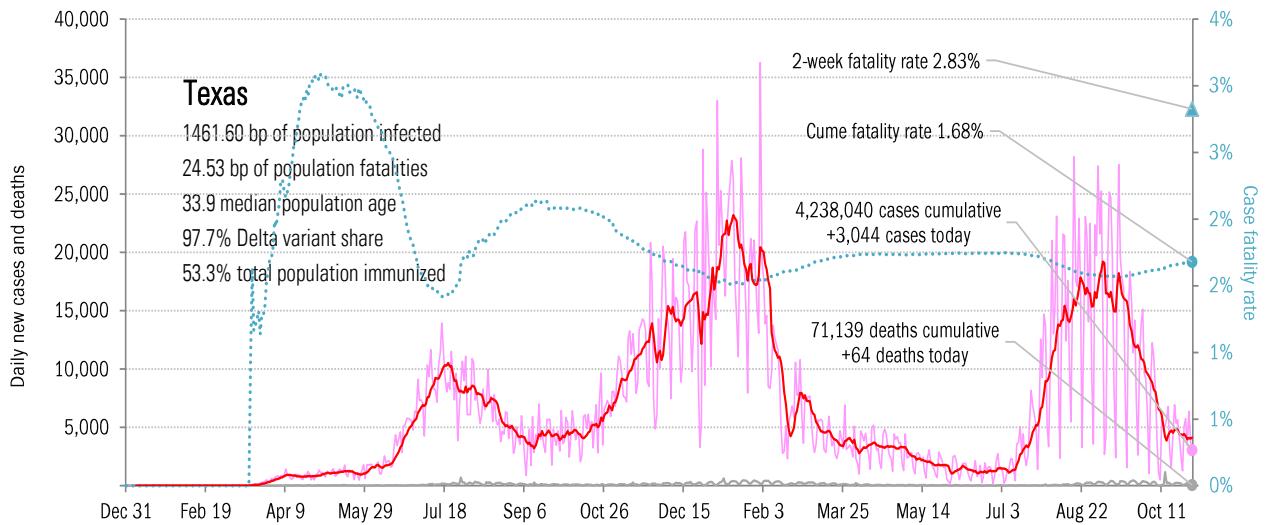
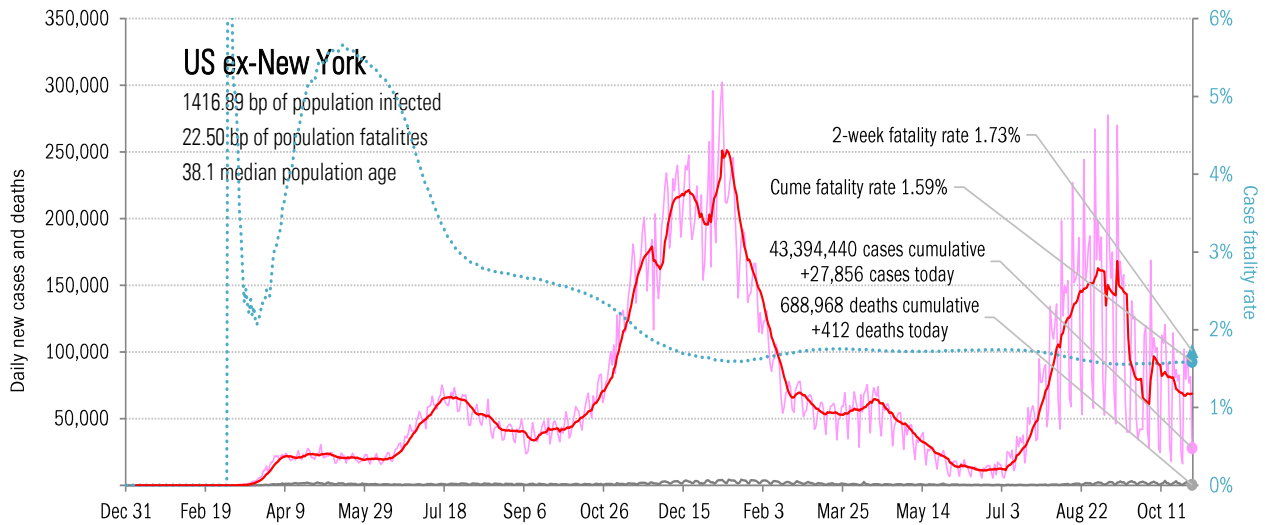
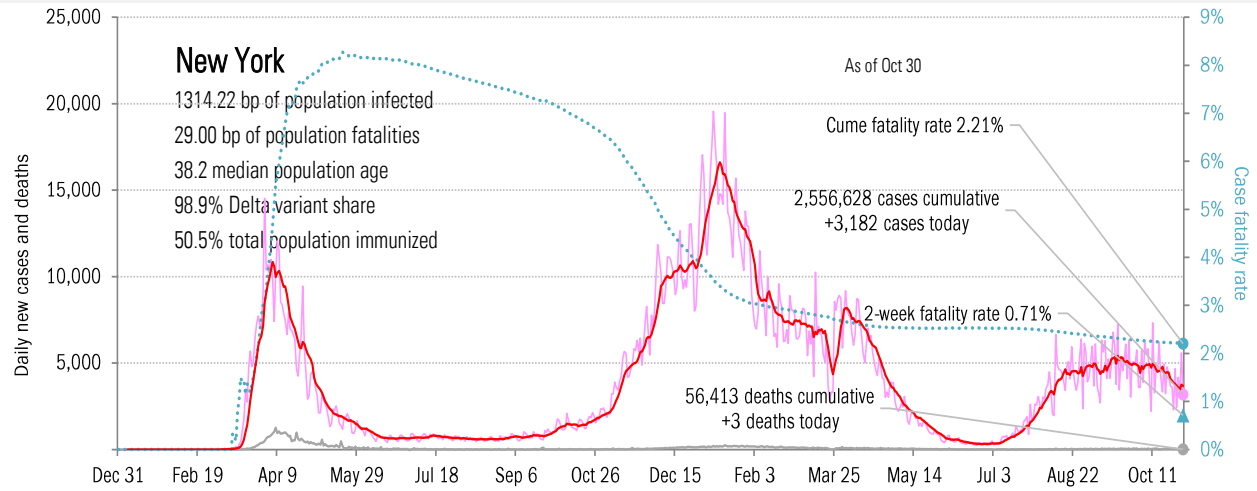
14-day moving average, last 14 days Most recent value displayed ● High ● Low
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Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande

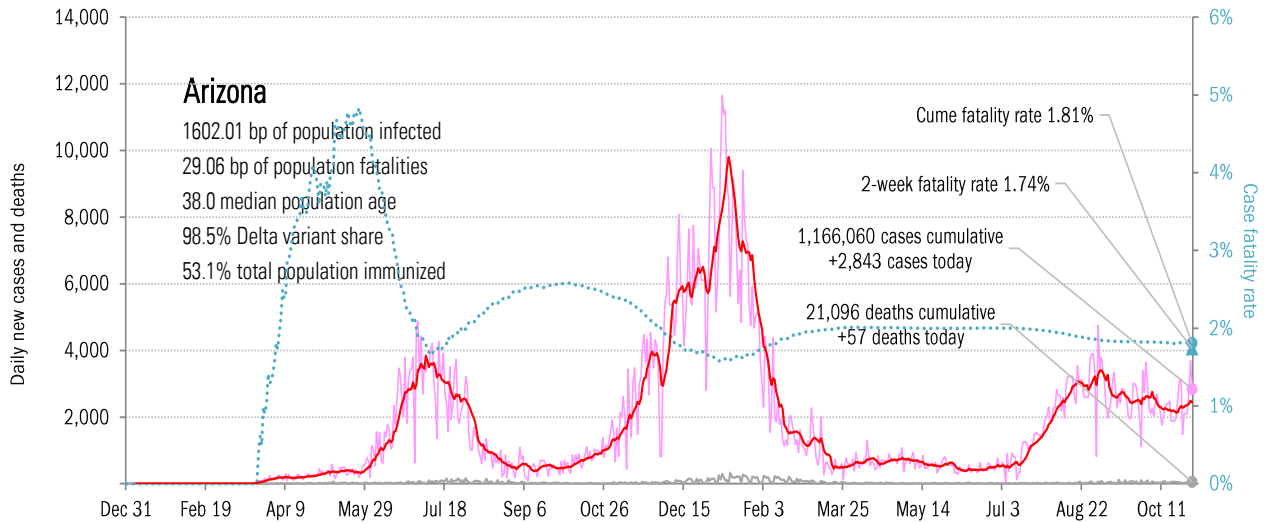
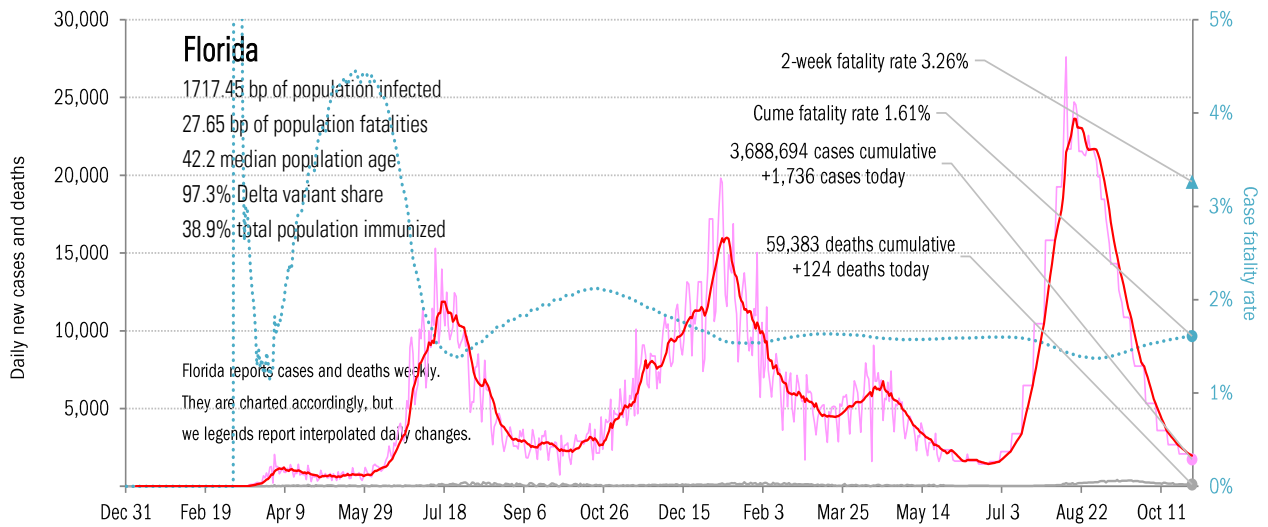
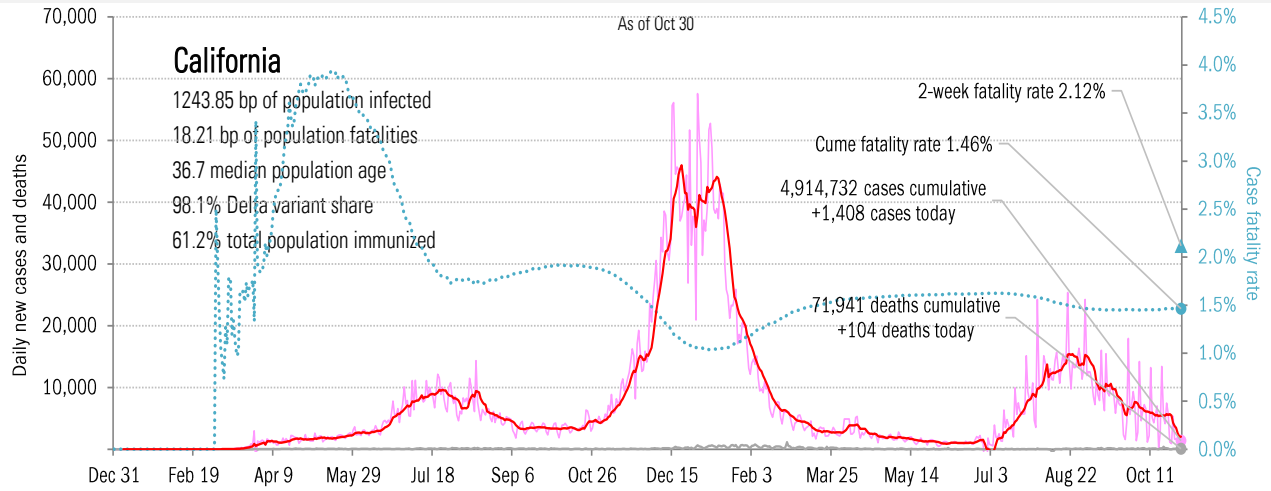
Cases: 7-day average and daily Deaths: Daily



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

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

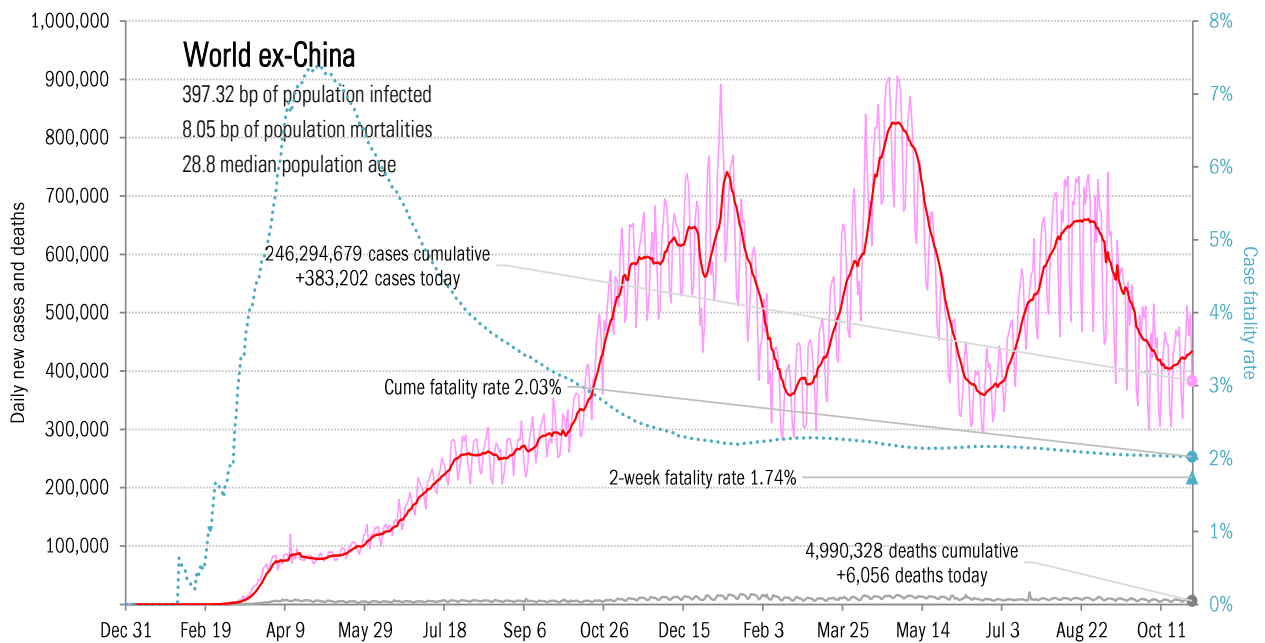
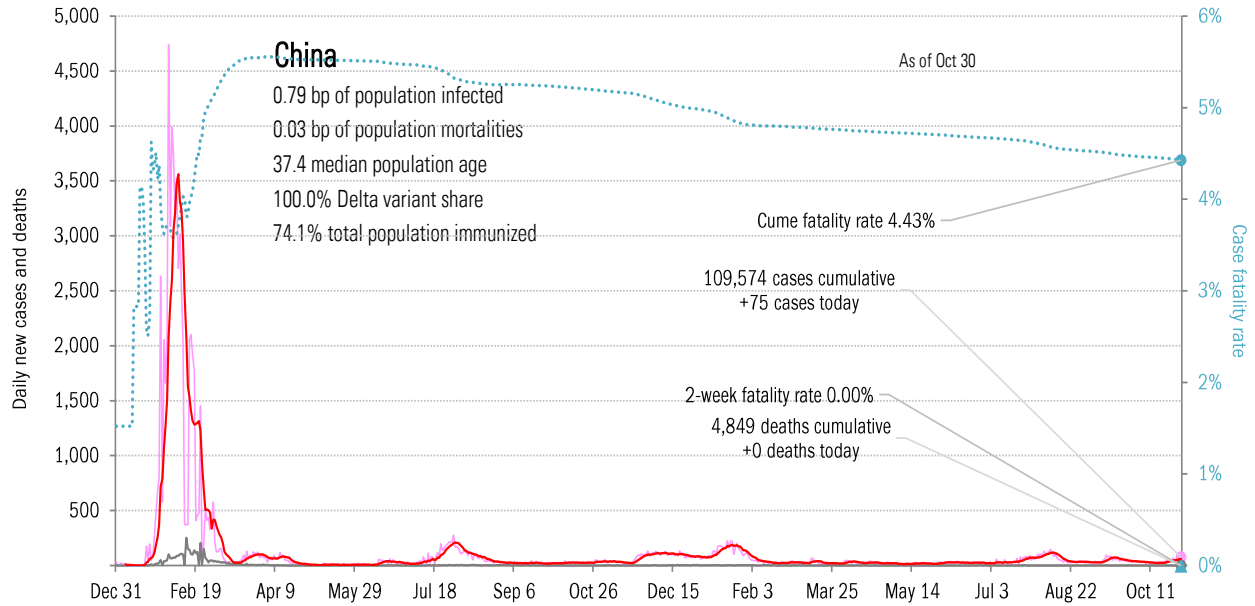
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

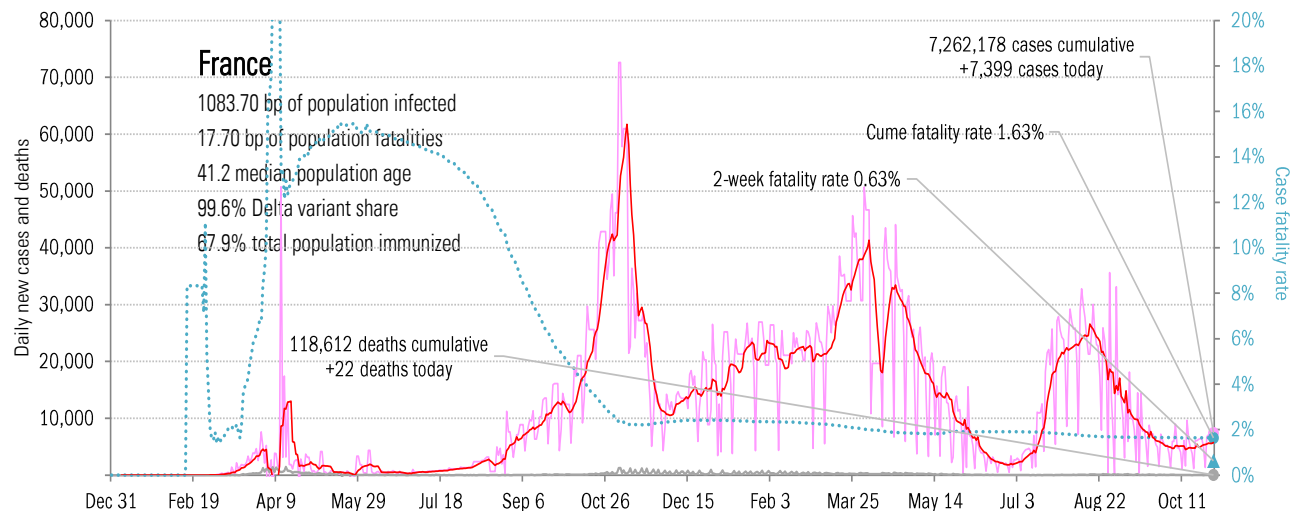
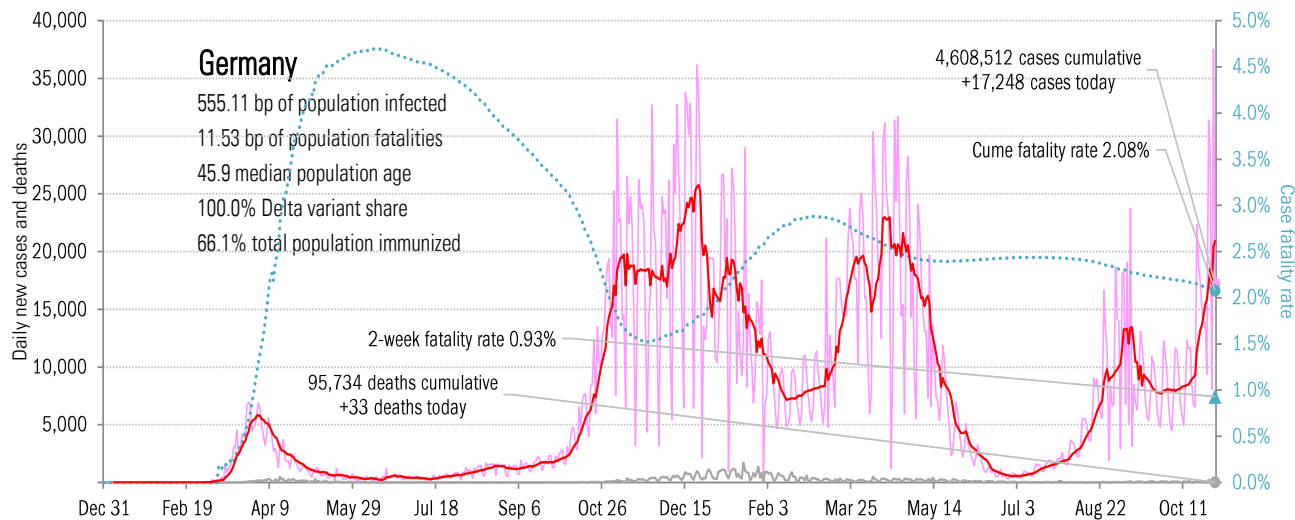
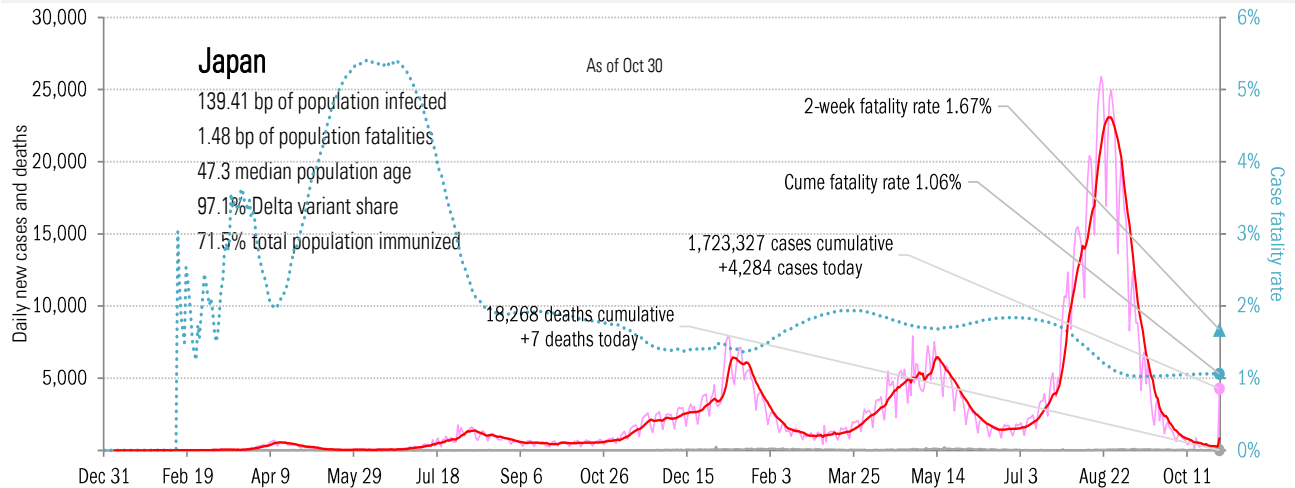
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

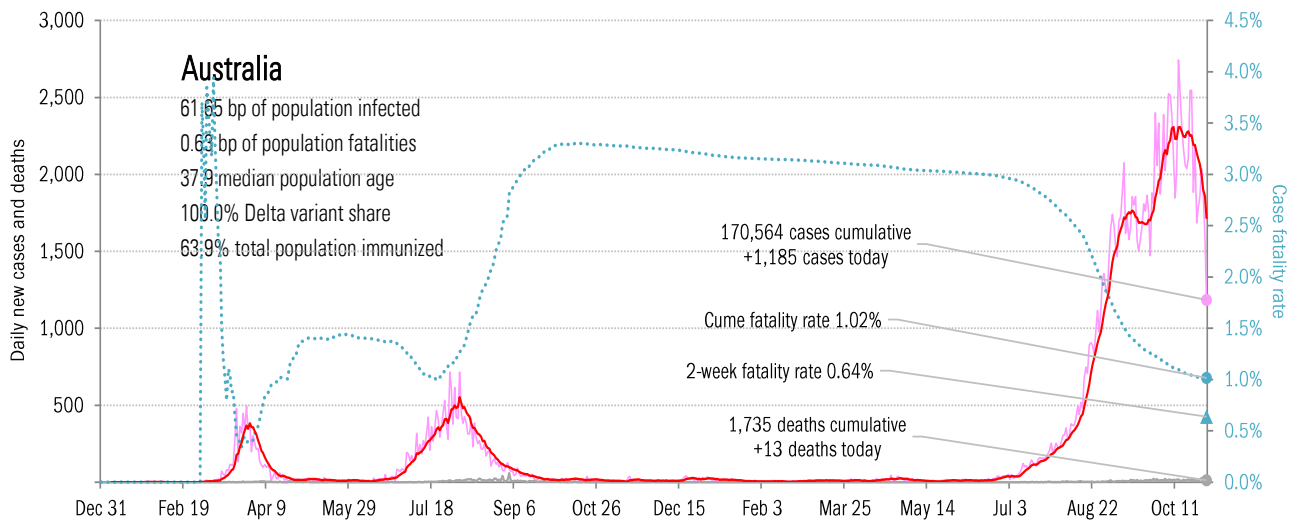
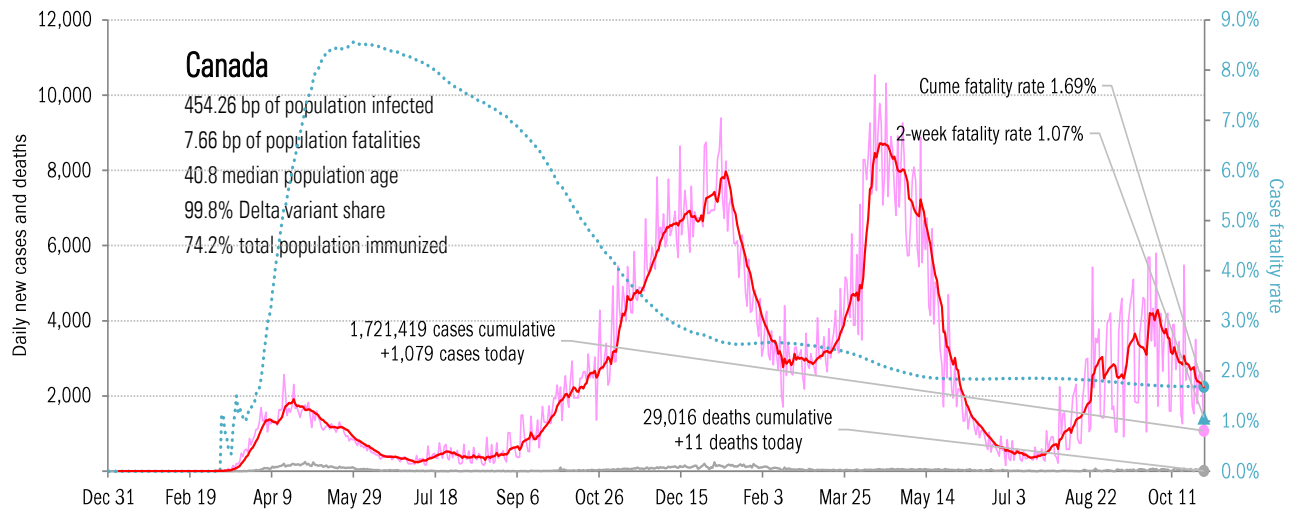
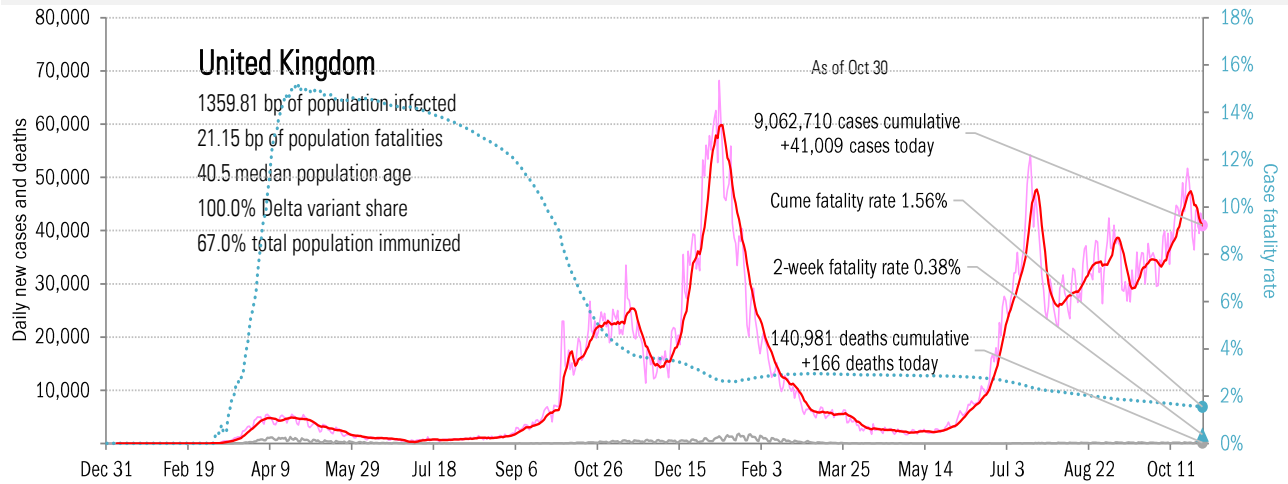
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

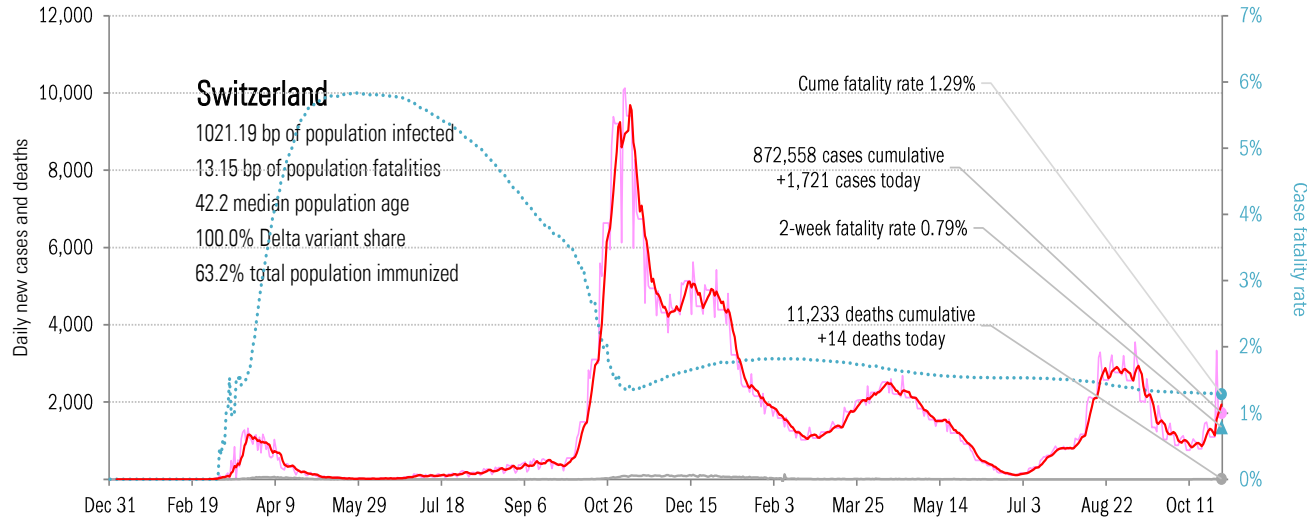
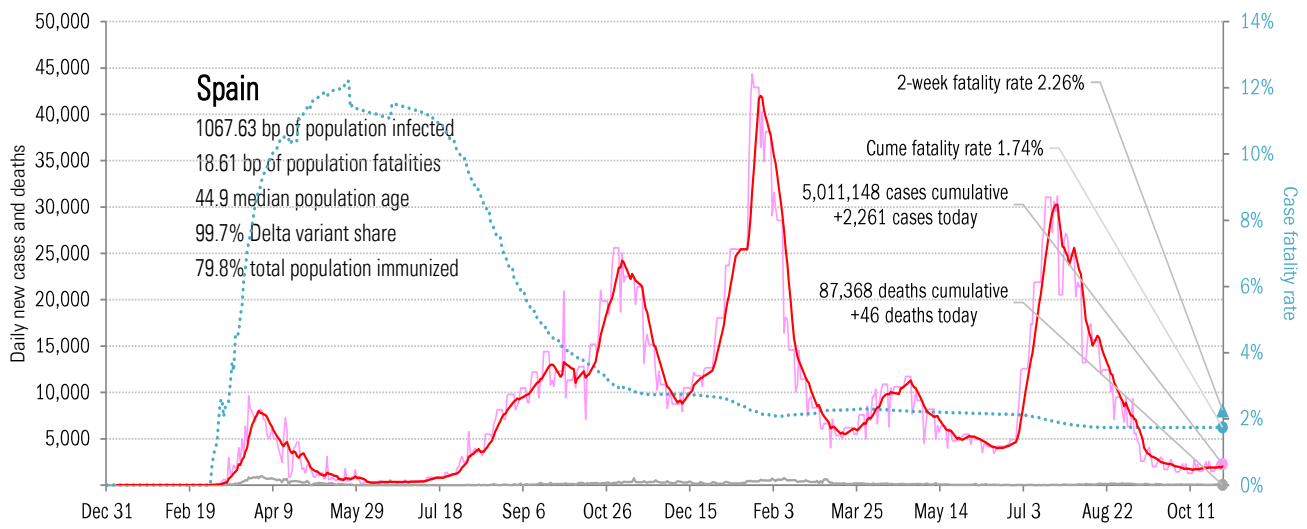
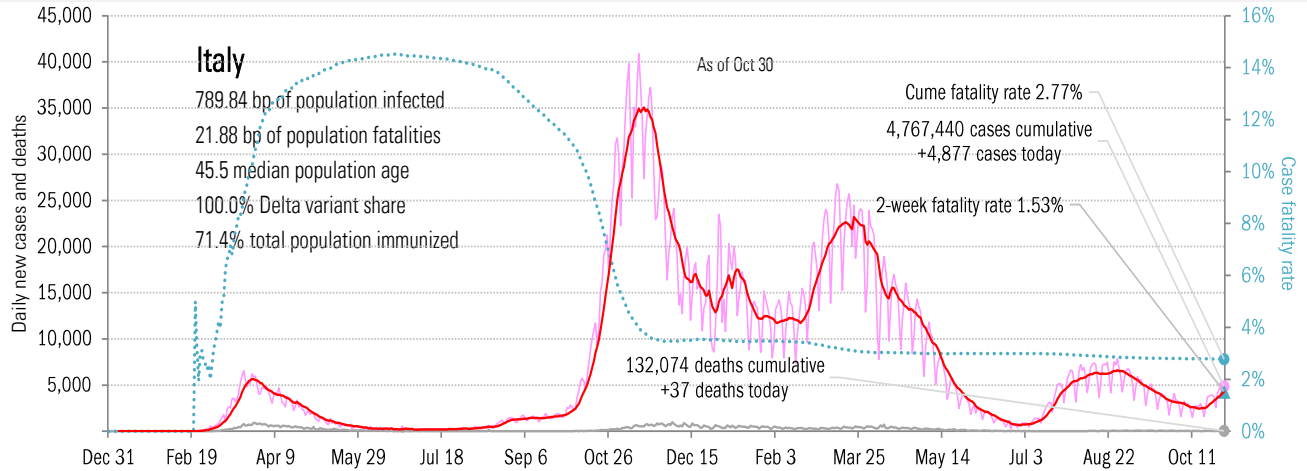
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

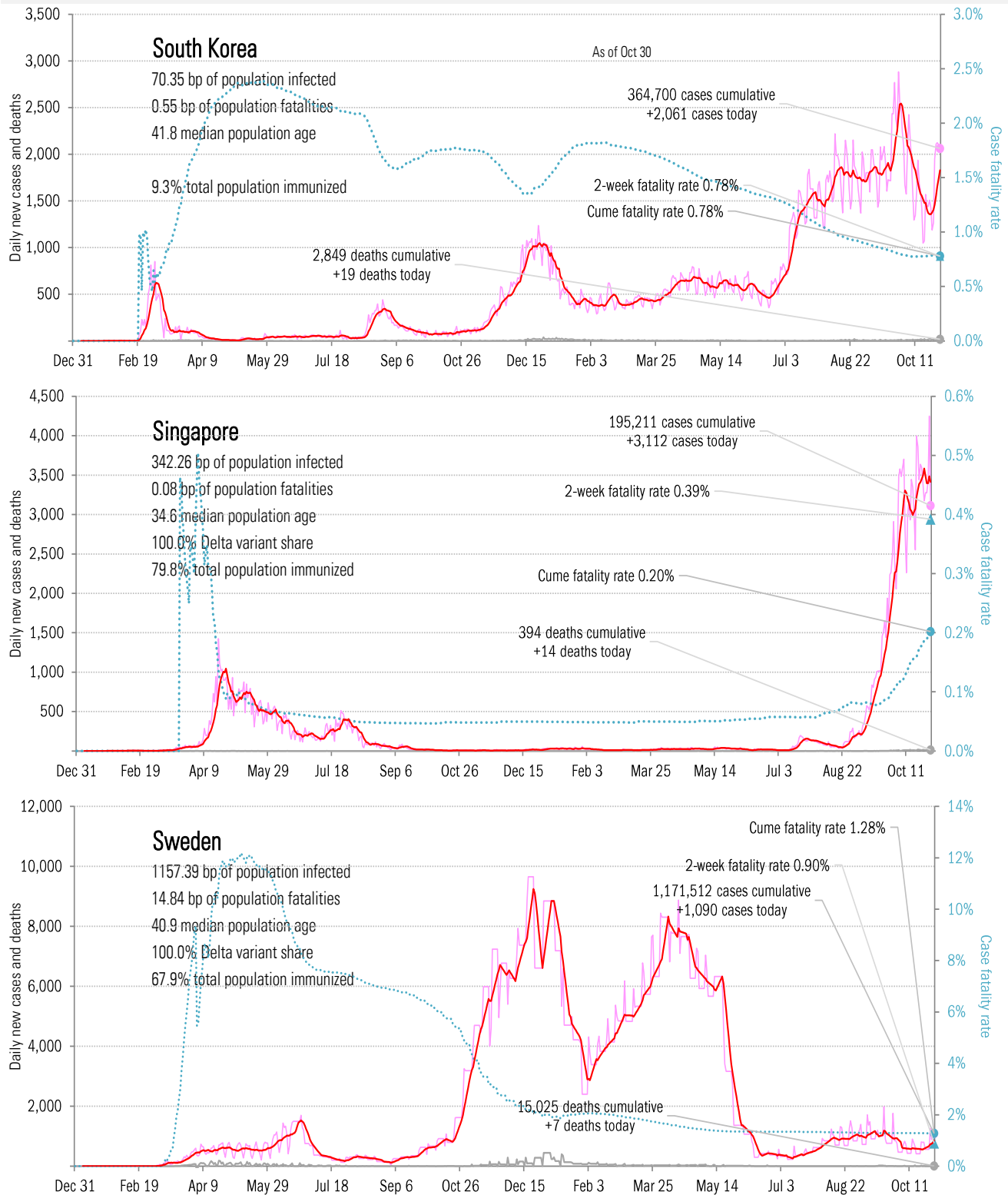
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

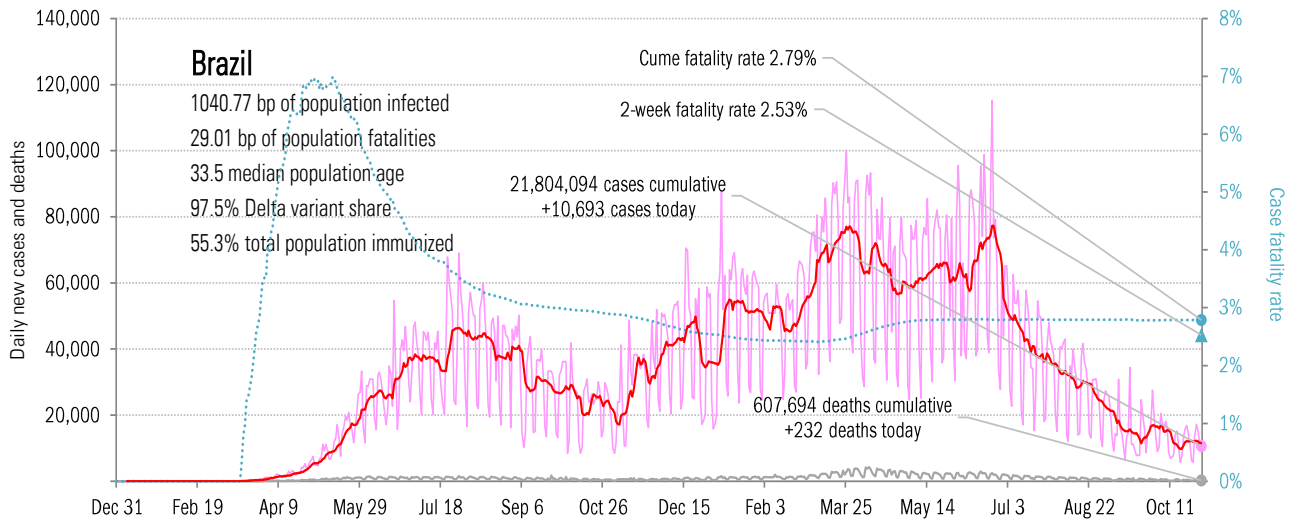
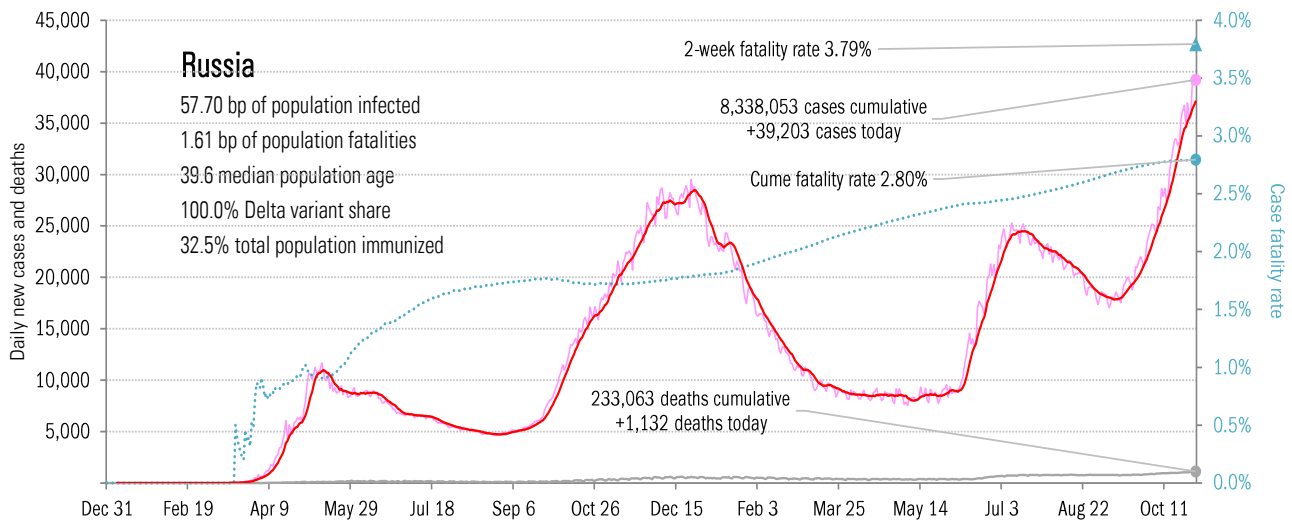
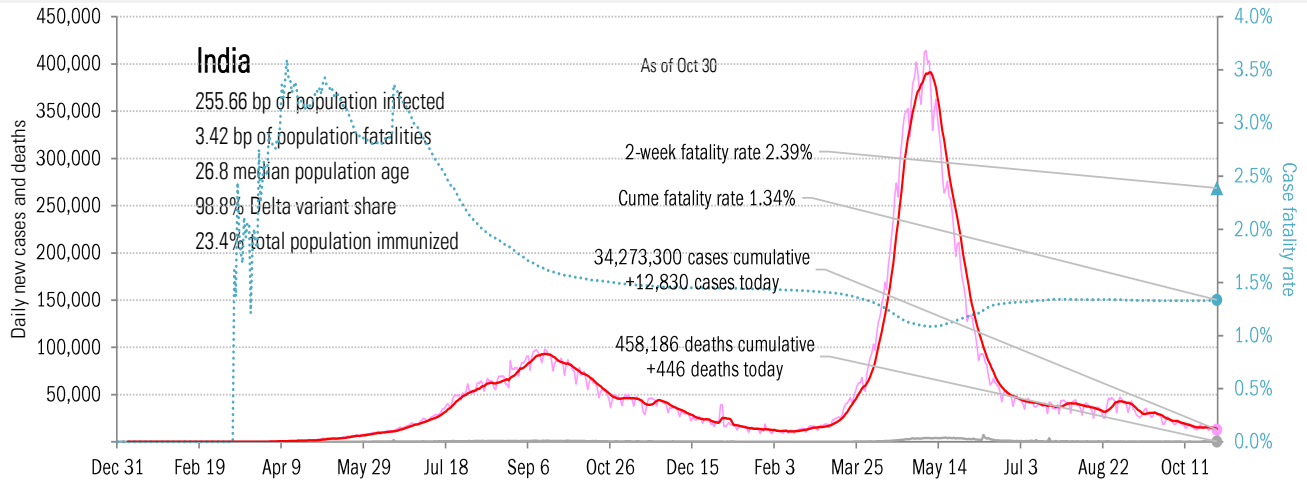
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

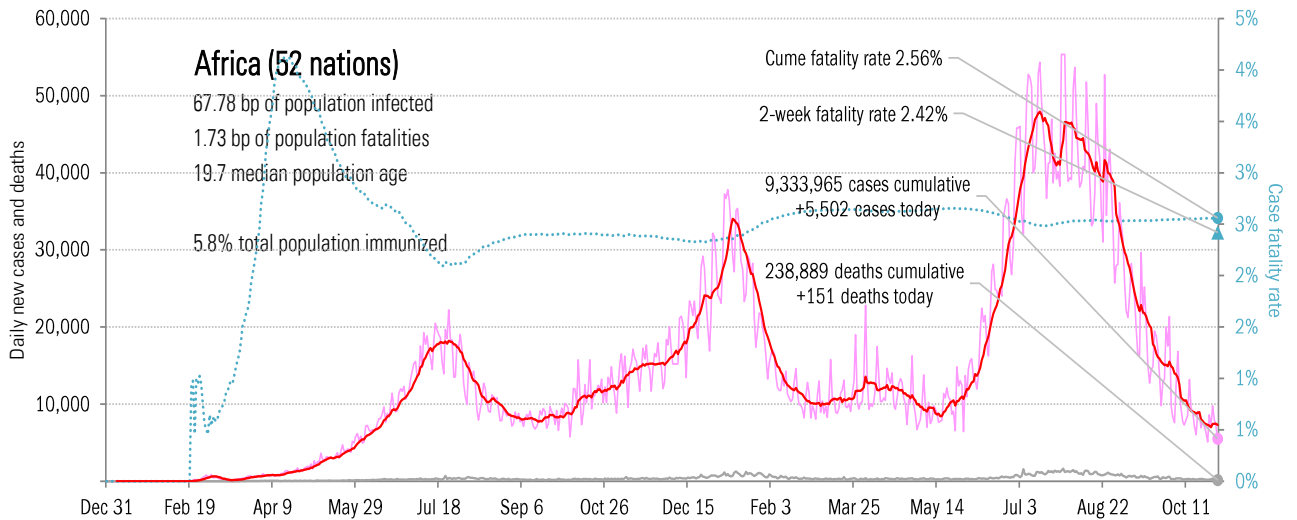
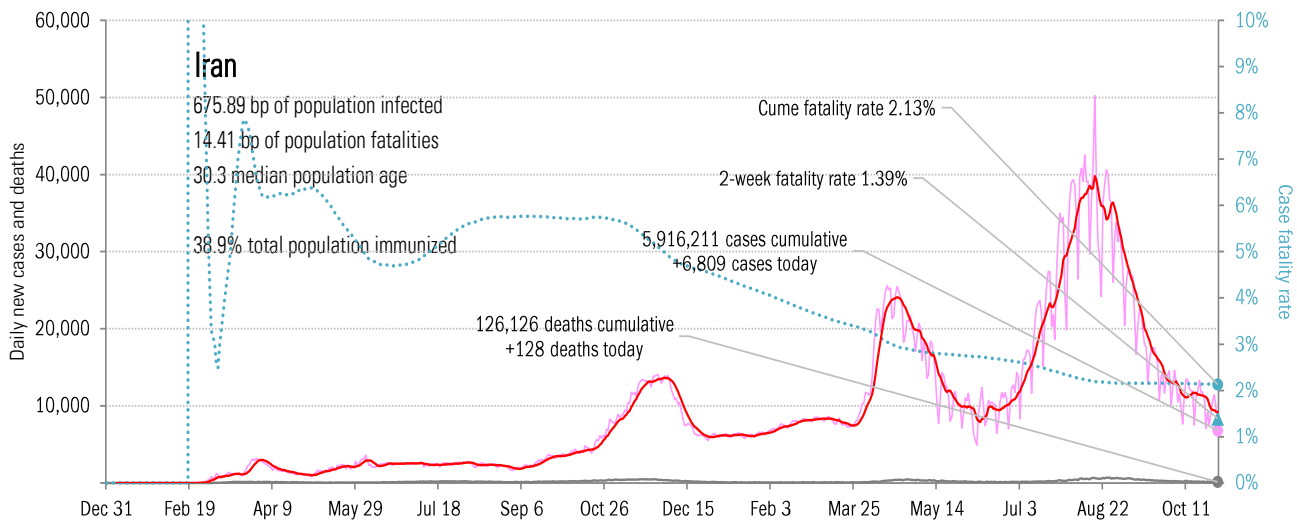
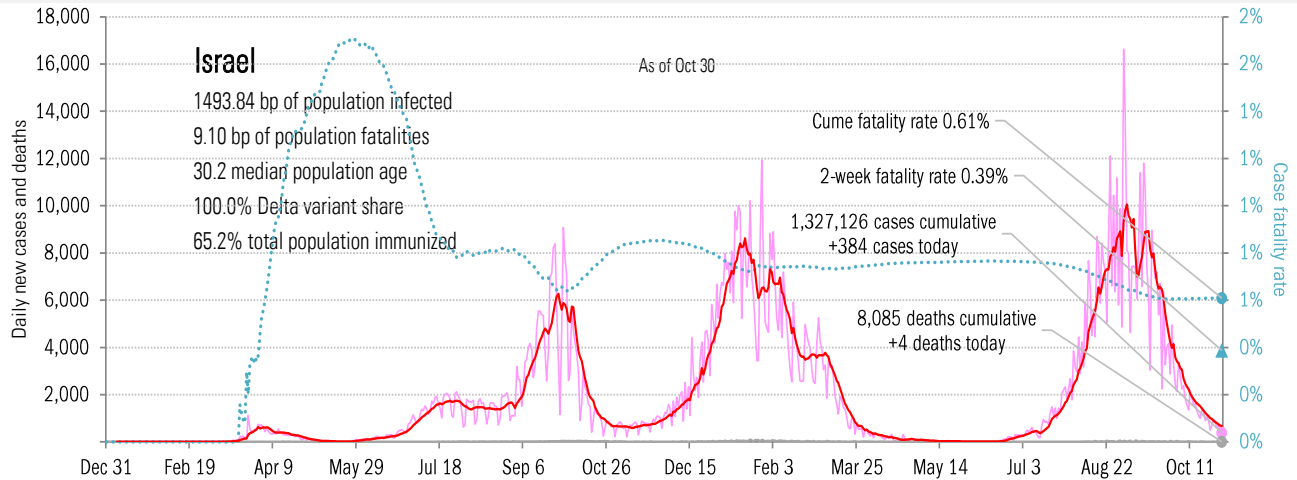
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

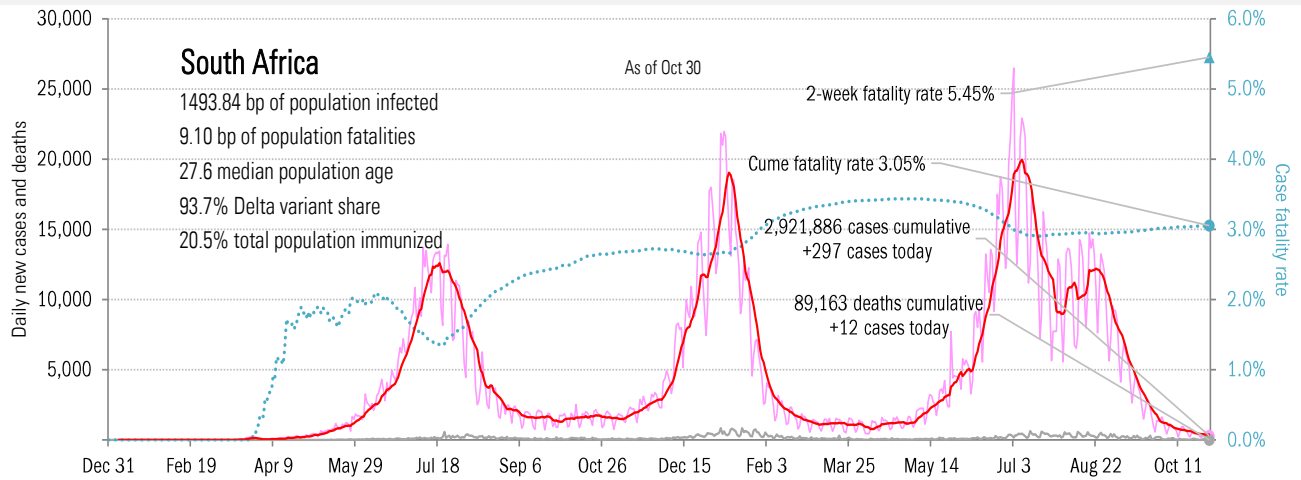
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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