

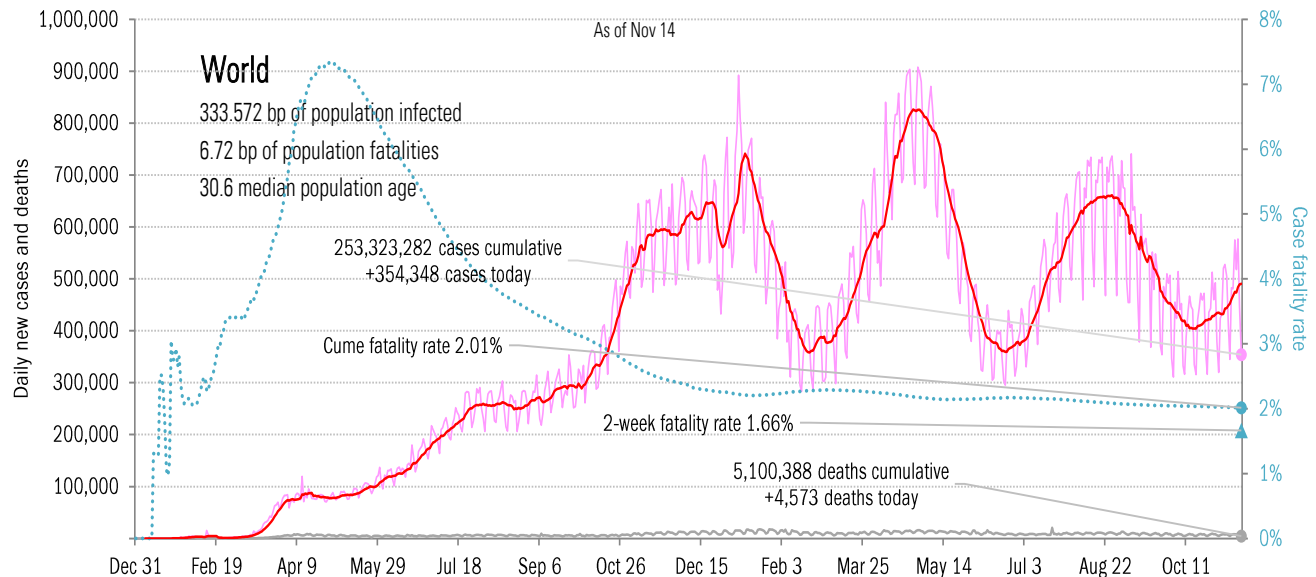
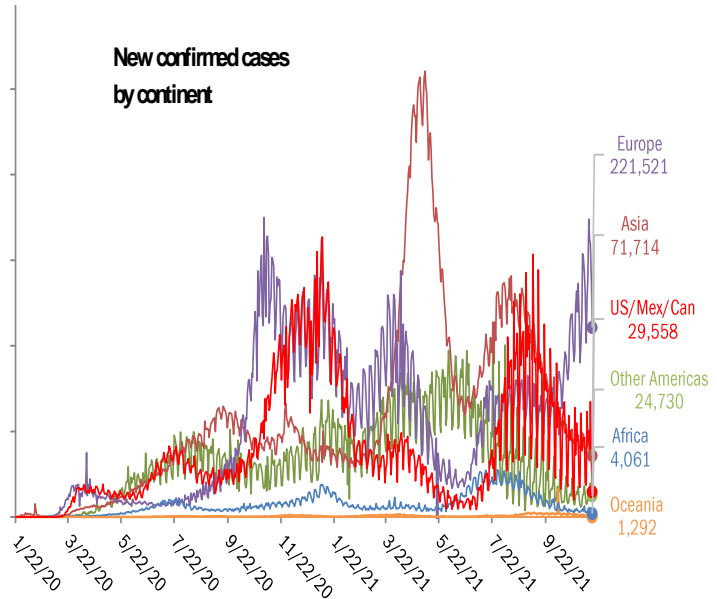
Data Insights: Covid-2019 Monitor

Monday, November 15, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
Russia	+37,620	Russia	+1,194
United Kingdom	+36,217	Ukraine	+428
United States	+25,050	Philippines	+309
Turkey	+21,624	Romania	+233
Germany	+19,203	Mexico	+217
Ukraine	+15,693	Turkey	+189
Poland	+14,448	United States	+172
Chile	+12,753	India	+125
France	+12,506	Iran	+125
Netherlands	+12,052	Bulgaria	+88
+207,166		+3,080	
World +354,348		World +4,573	
Top ten 58%		Top ten 67%	



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

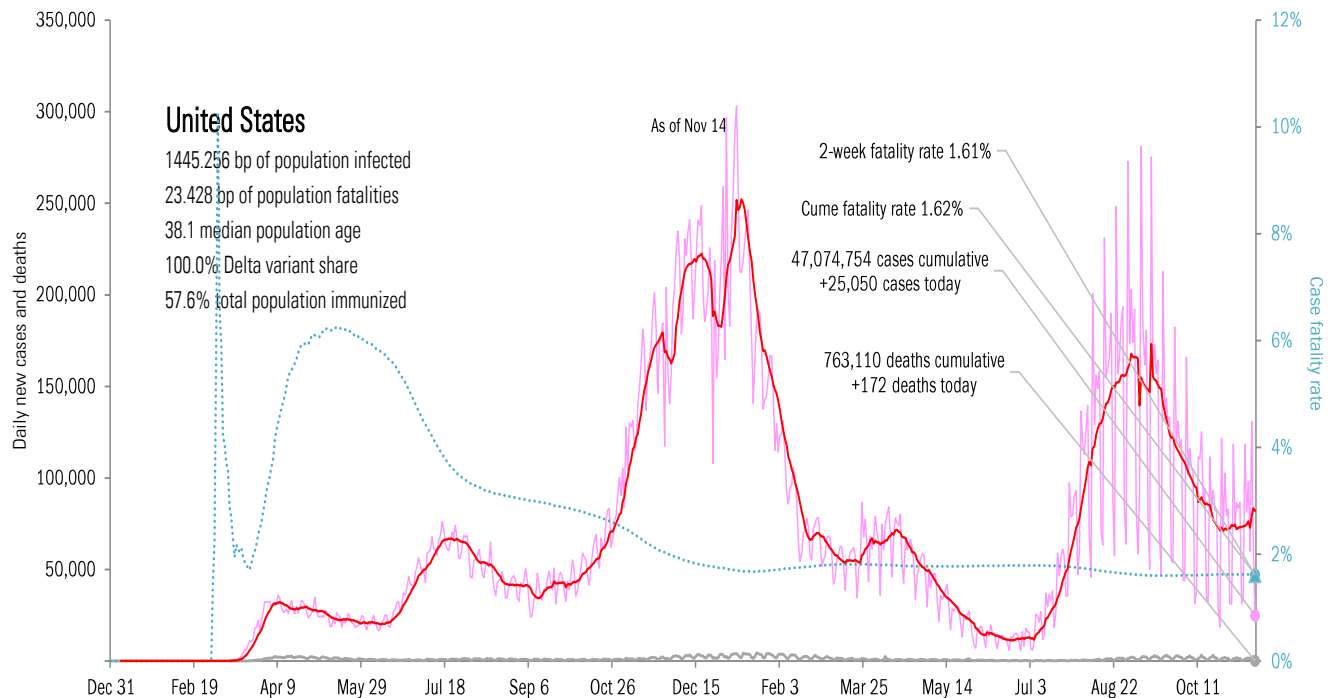
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
PA	+5,311		FL	+52		MI	+129		CA	5,005,192		CA	73,111		TX	378,851		RI	89%	RI	91%
NY	+4,391		PA	+40		GA	+111		TX	4,283,899		TX	72,789		FL	320,820		MA	86%	NM	91%
CH	+3,628		TX	+29		TX	+80		FL	3,712,286		FL	60,716		CA	315,267		MD	84%	KY	90%
AZ	+3,086		NY	+22		CH	+68		NY	2,626,522		NY	56,944		NY	166,988		PA	84%	NE	86%
NJ	+1,701		MD	+11		MN	+58		IL	1,735,586		PA	32,395		GA	161,334		WA	83%	TX	85%
FL	+1,472		CA	+6		IN	+56		GA	1,647,265		GA	29,861		CH	127,795		MN	83%	NH	84%
MO	+964		AR	+5		PA	+55		PA	1,644,501		IL	28,510		PA	120,428		MI	83%	MI	84%
CA	+890		NJ	+3		IL	+41		CH	1,604,488		NJ	28,172		KY	112,515		CT	82%	AL	84%
MD	+819		AZ	+2		AZ	+37		NC	1,501,801		CH	25,643		IL	106,897		MO	81%	WV	84%
VV	+670		HI	+1		WA	+36		MI	1,346,868		MI	24,308		MI	95,979		NY	81%	AK	84%
+22,932			+171			+671			25,108,408			432,449			1,906,874						
All states	+25,050			+172			+934		All states	47,074,754			763,110			3,417,821		All states	70%		67%
Top ten	92%			99%			72%		Top ten	53%			57%			56%		Median	75%		77%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
PA	-15,009	CA	-85	ID	-31	WY	+10 bp
CA	-8,499	AZ	-49	FL	-23	MS	+10 bp
IA	-3,090	AL	-47	MO	-17	ND	+10 bp
TX	-2,494	TX	-44	UT	-17	AR	+10 bp
CH	-1,061	PA	-36	VA	-17	MO	+10 bp

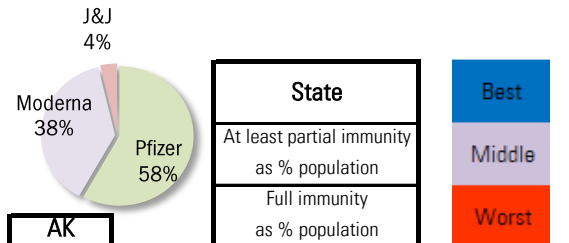


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

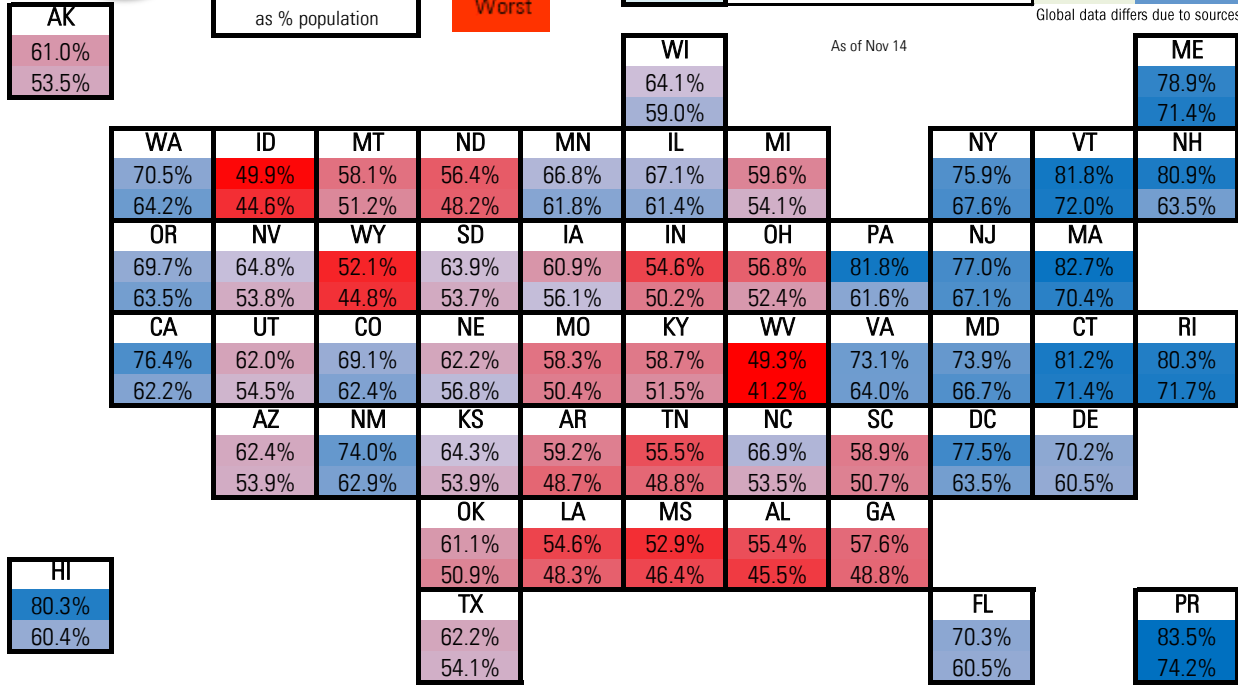
Administered	Cumulative	Today	Immunity	Full	Partial
Doses	452,755,390	+1.563 million	US	57.6%	67.4%
Boosters	29,843,199	+0.783 million	UK	67.5%	74.1%
	One dose	% Pop	Immune	% pop	New immune today
Total population	232,361,872	70%	200,162,472	60%	+0.175 million
Age 12 to 17	14,412,665	61%	12,110,808	51%	+0.014 million
Age 18 to 64	159,635,091	78%	138,364,531	68%	+0.128 million
Age 65 and over	56,063,855	100%	48,752,298	89%	+0.032 million

France	68.6%	76.2%
Spain	80.1%	81.6%
Germany	66.9%	69.4%
Italy	72.5%	77.6%
Australia	69.3%	75.9%
Israel	61.9%	67.4%
Canada	75.3%	78.9%
Japan	75.5%	78.7%
Africa	6.4%	9.5%
India	26.6%	54.0%
Brazil	59.8%	75.9%
China	74.3%	80.0%

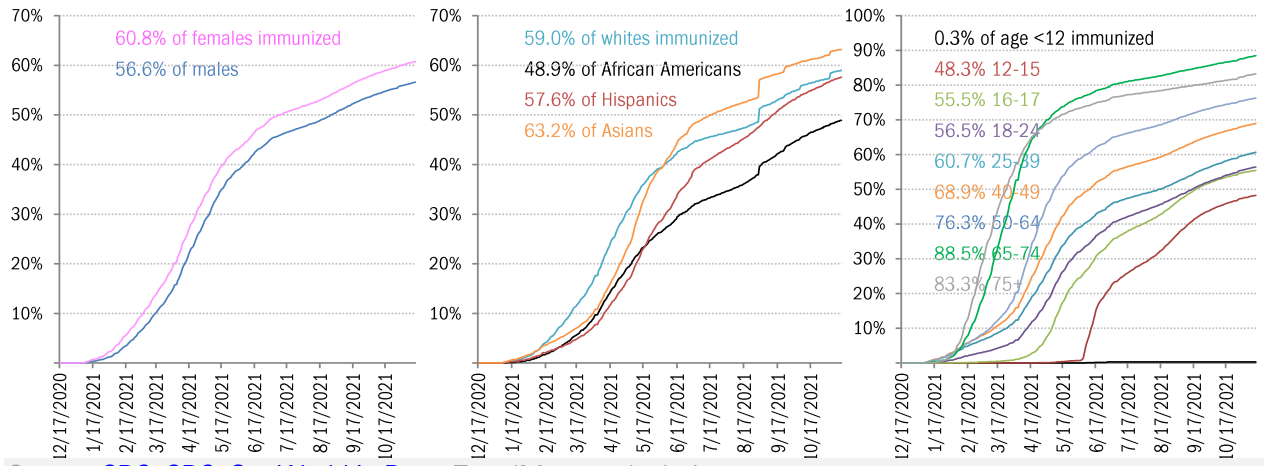


Every American >18 immunized in **169 days** by May 2, 2022
 72.5% of population >18 immunized
 16.8% previously tested positive
89.2% vs 60% adult herd immunity

Global data differs due to sources, timing



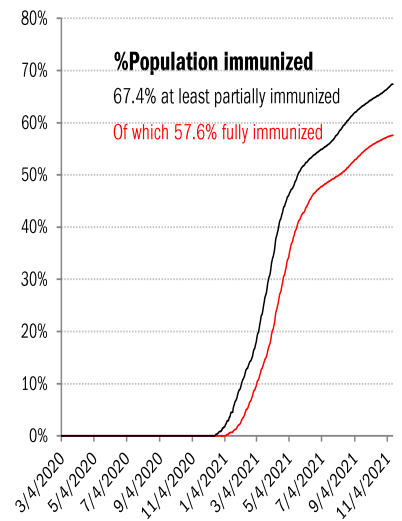
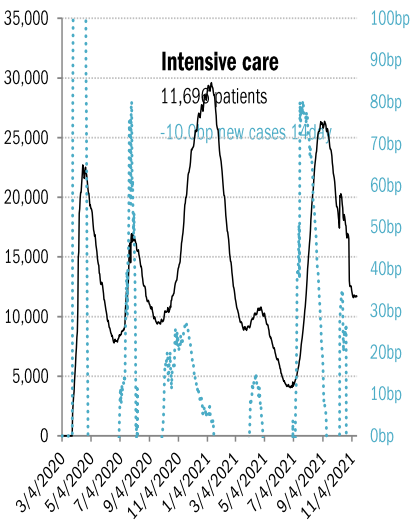
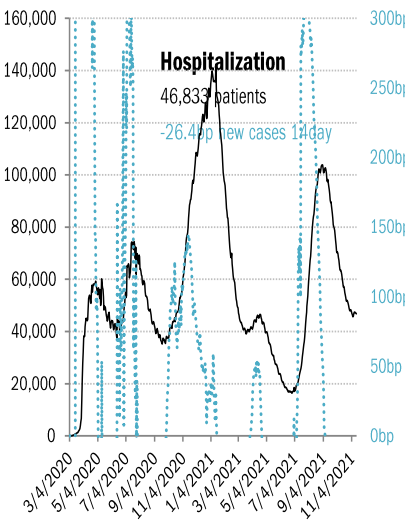
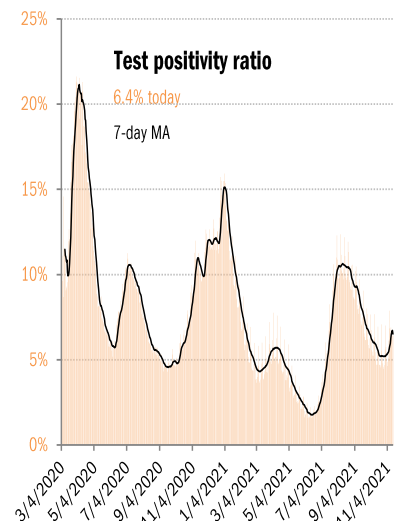
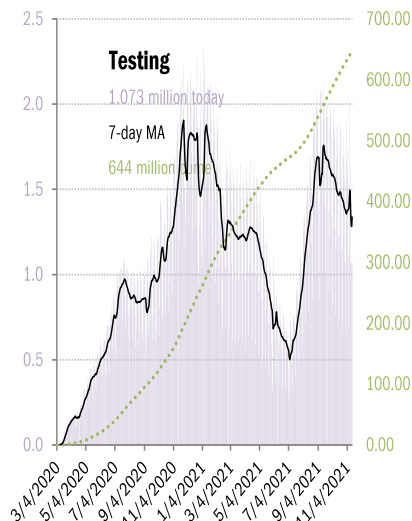
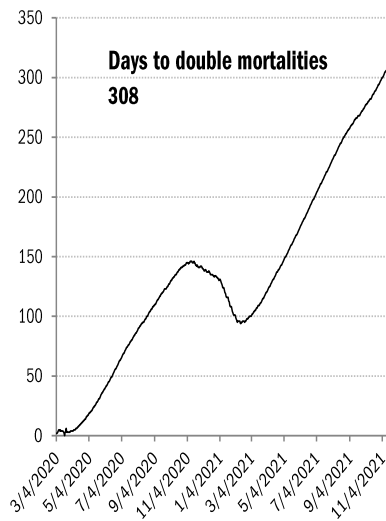
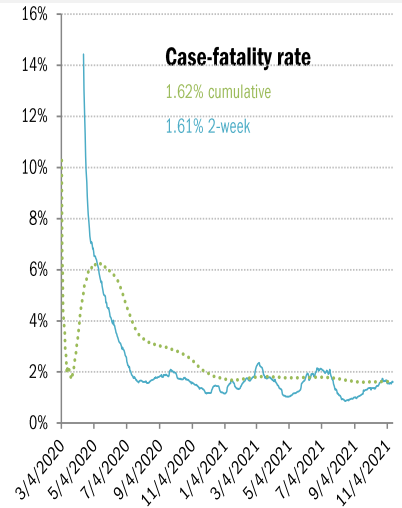
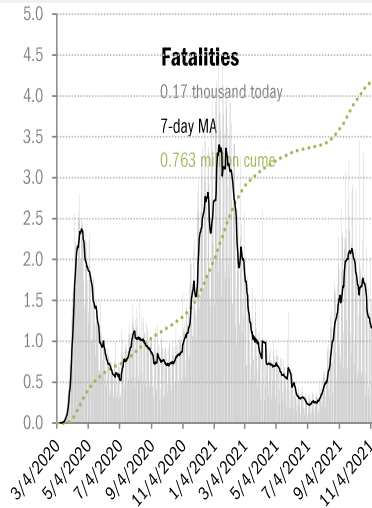
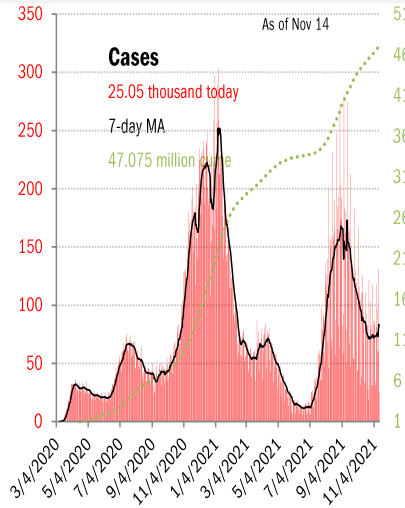
The demographics of US vaccination



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

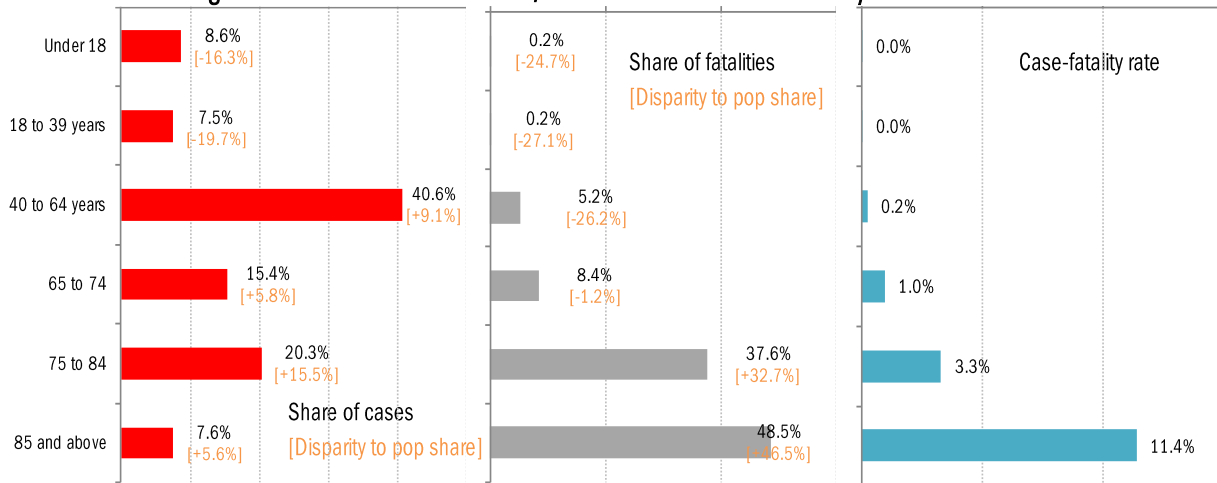
US deep-dive

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

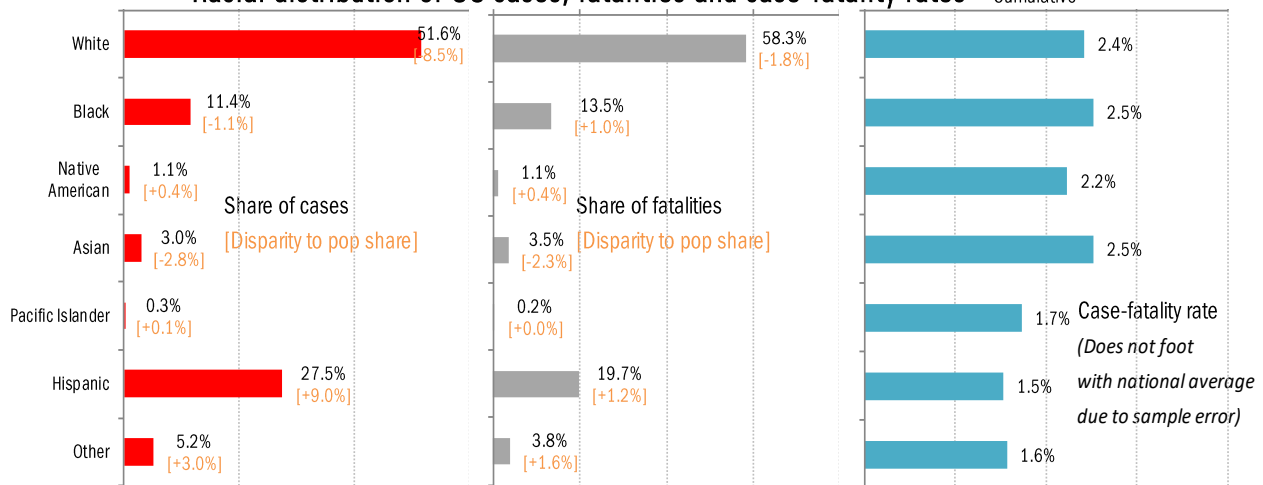


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

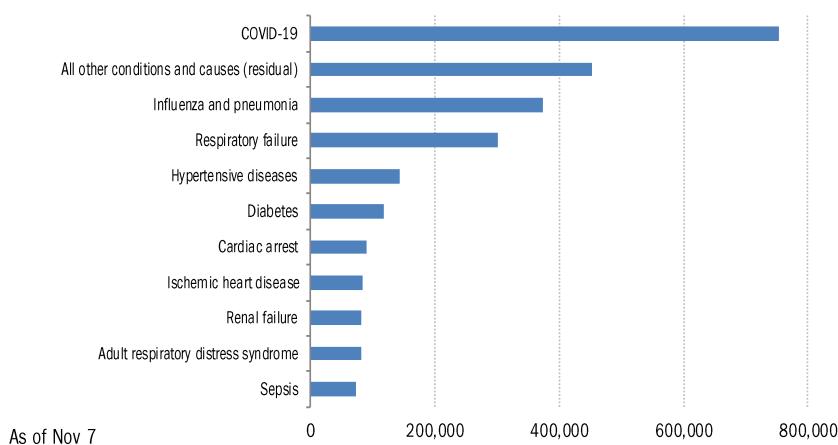


Racial distribution of US cases, fatalities and case-fatality rates



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

[Why Don't We Have a Covid Vaccine for Pets?](#)

Emily Anthes
New York Times
November 15, 2021

[BST Holdings et al. v. OSHA et al.](#)

Jones, Duncan and Engelhardt, Circuit Judges
United States Court of Appeals for the Fifth District
November 12, 2021

[Appeals Court Extends Block on Biden's Vaccine Mandate for Employers](#)

Charlie Savage
New York Times
November 12, 2021

[An Illegal Vaccine Mandate](#)

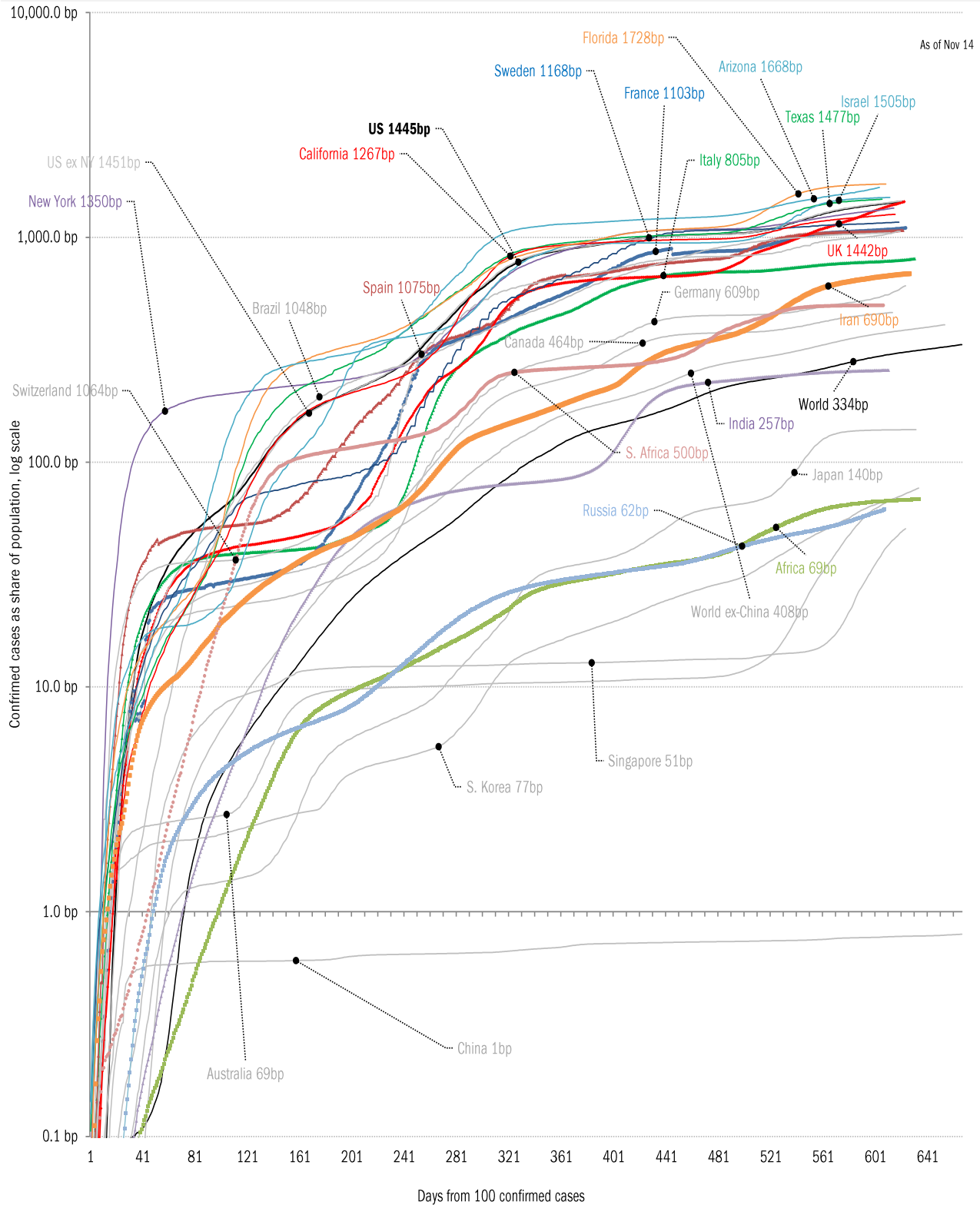
Wall Street Journal
November 14, 2021

Meme of the day



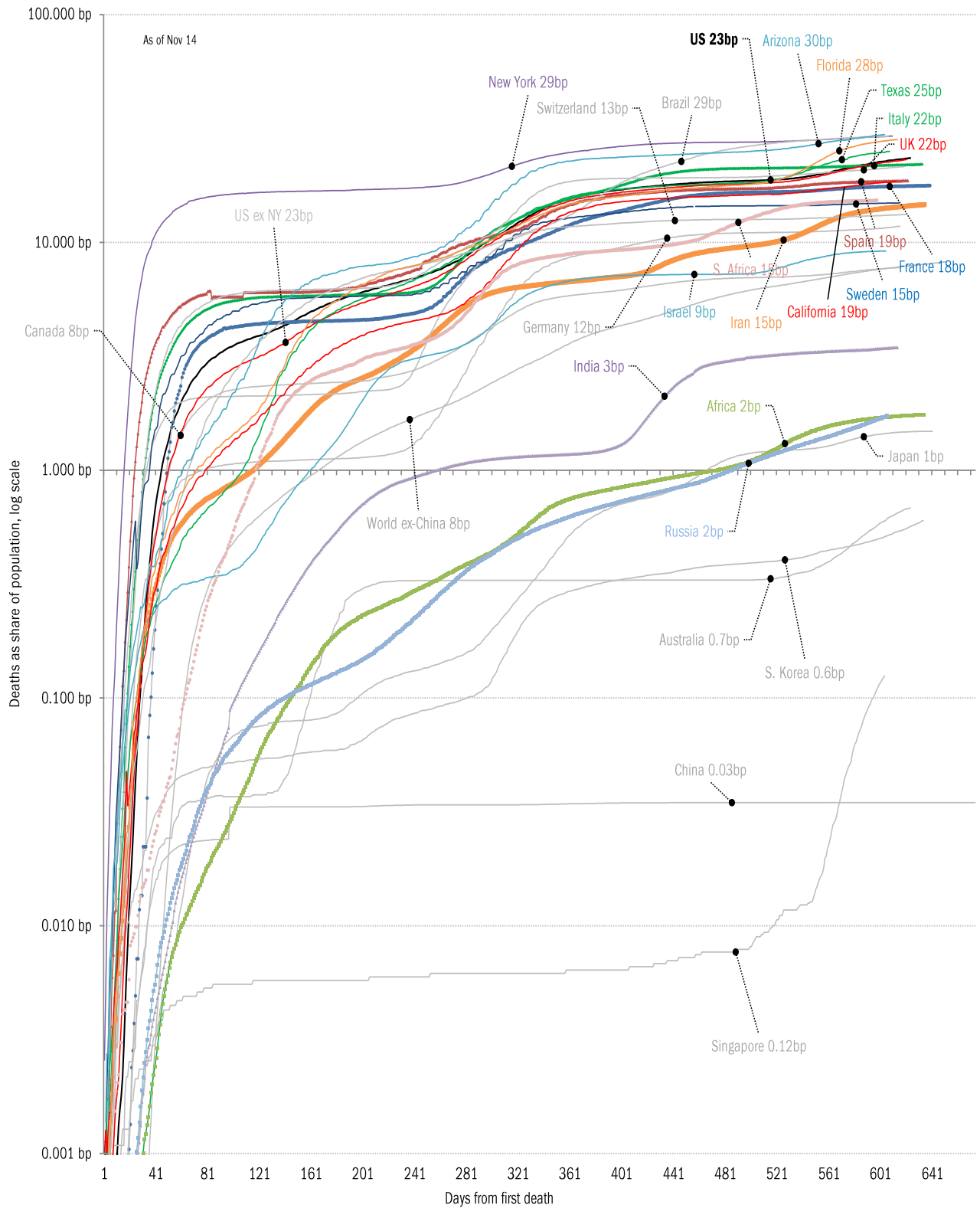
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

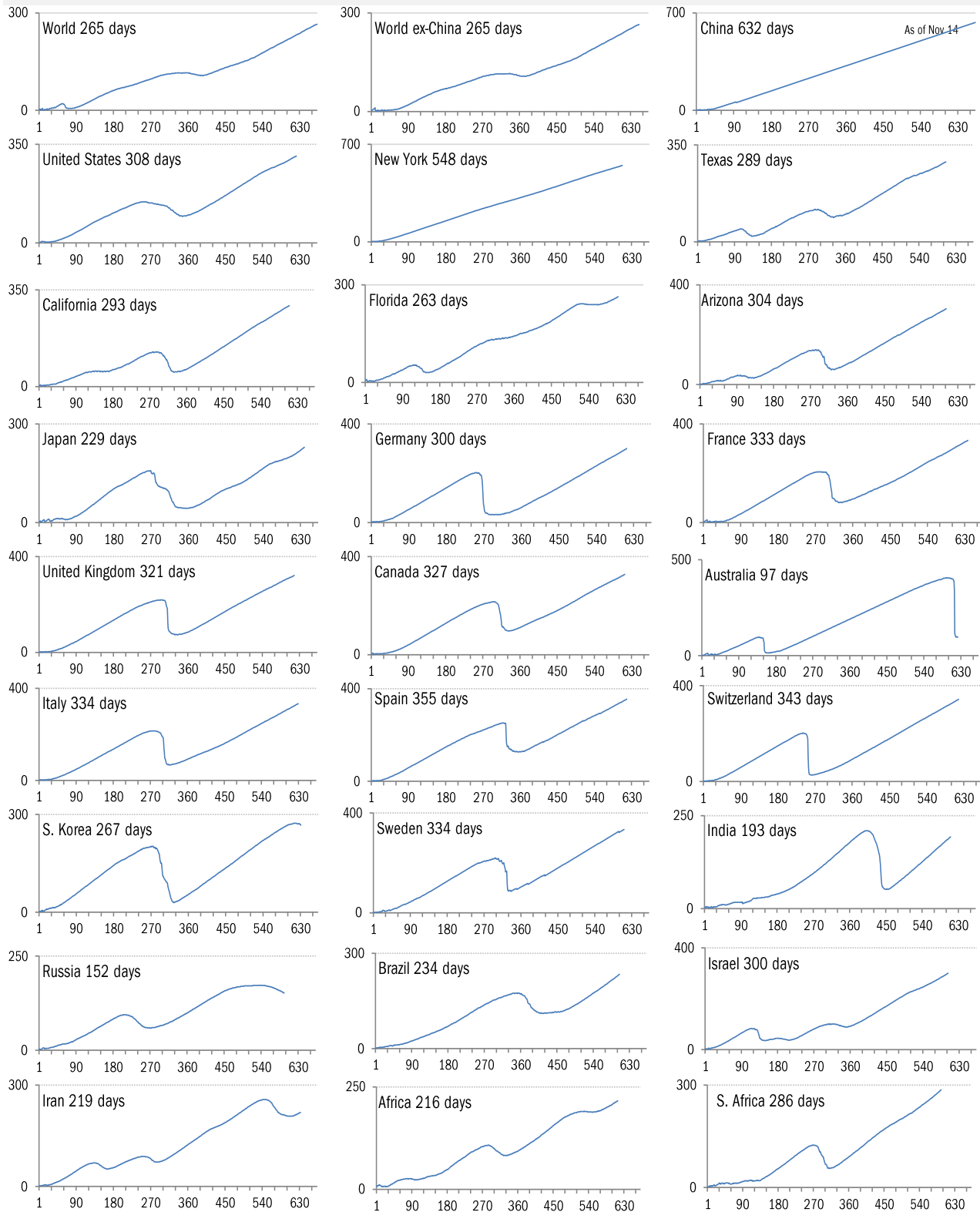


Source: [Johns Hopkins](#), TrendMacro calculations

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

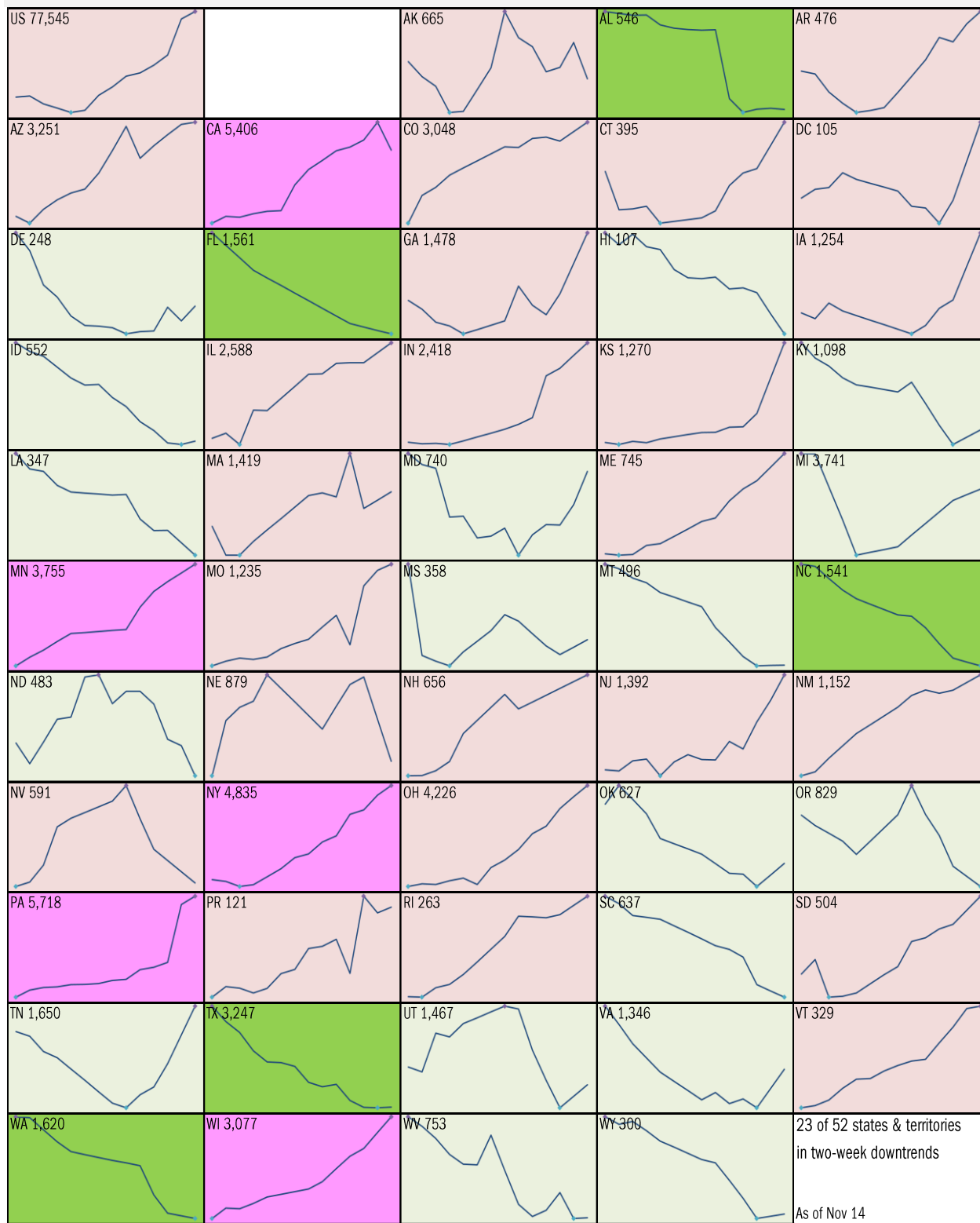
Vertical: days to double deaths Horizontal: days from first death

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

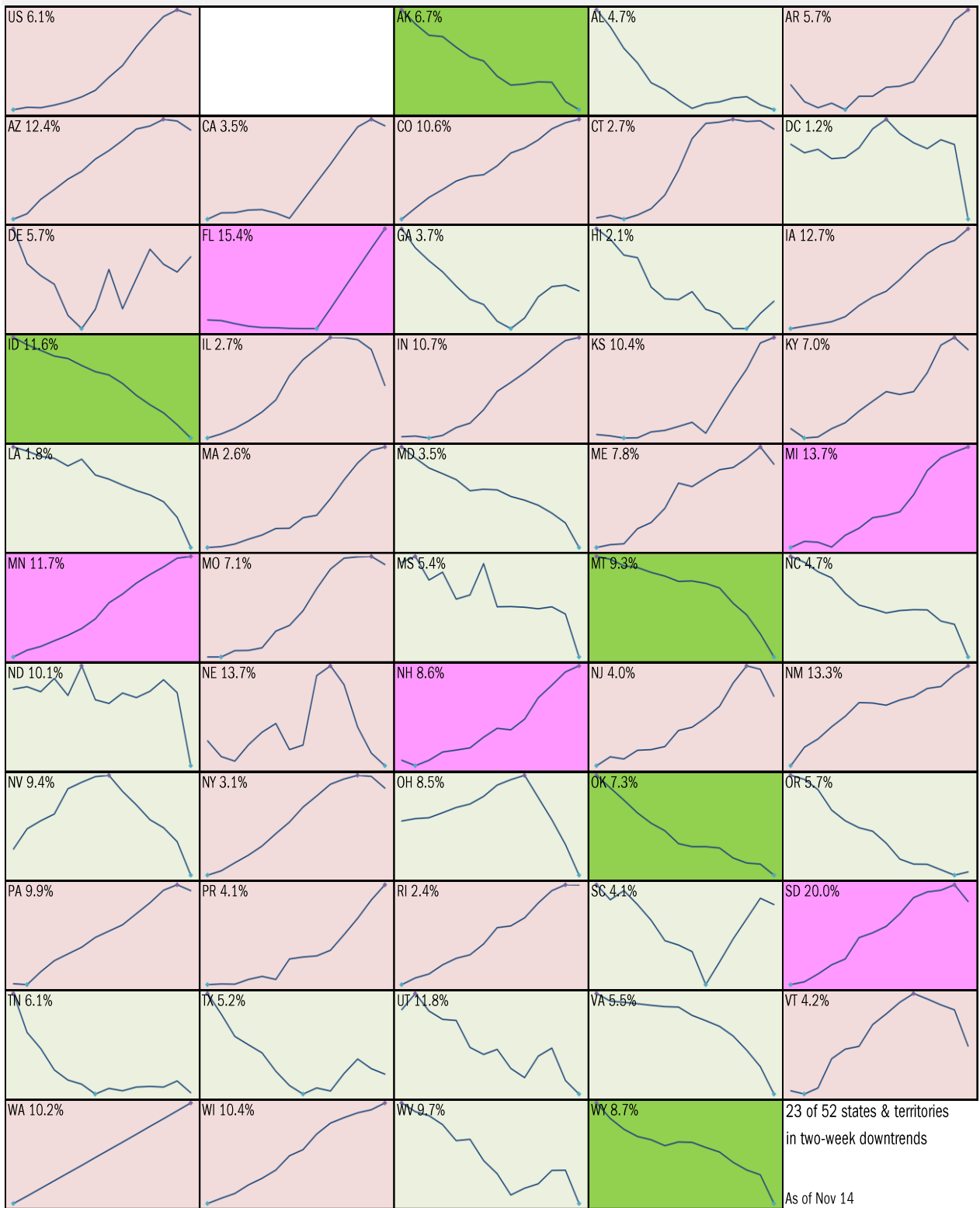


Source: [Johns Hopkins](#), TrendMacro calculations

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

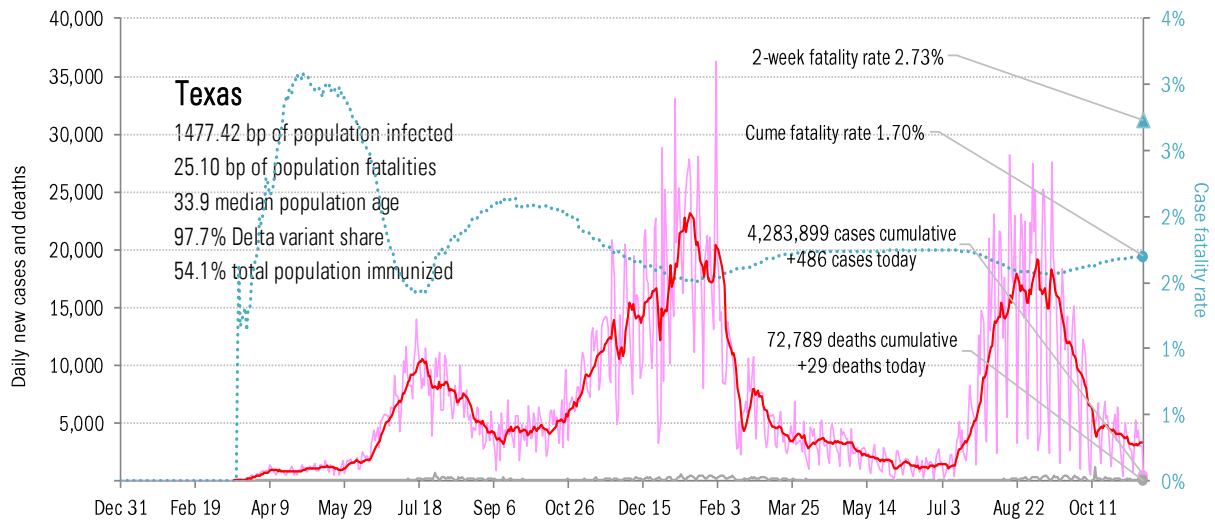
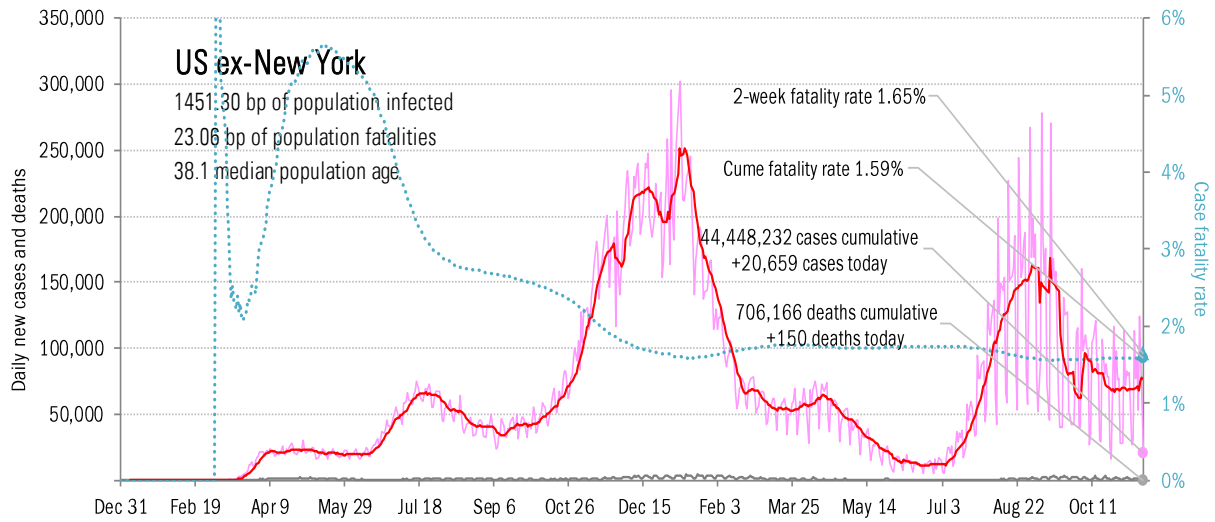
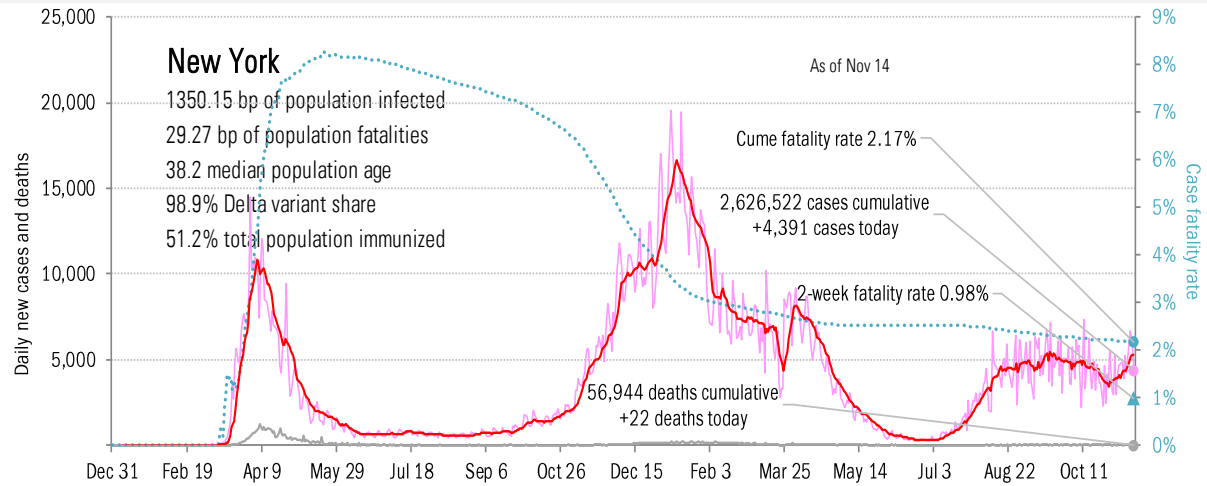
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

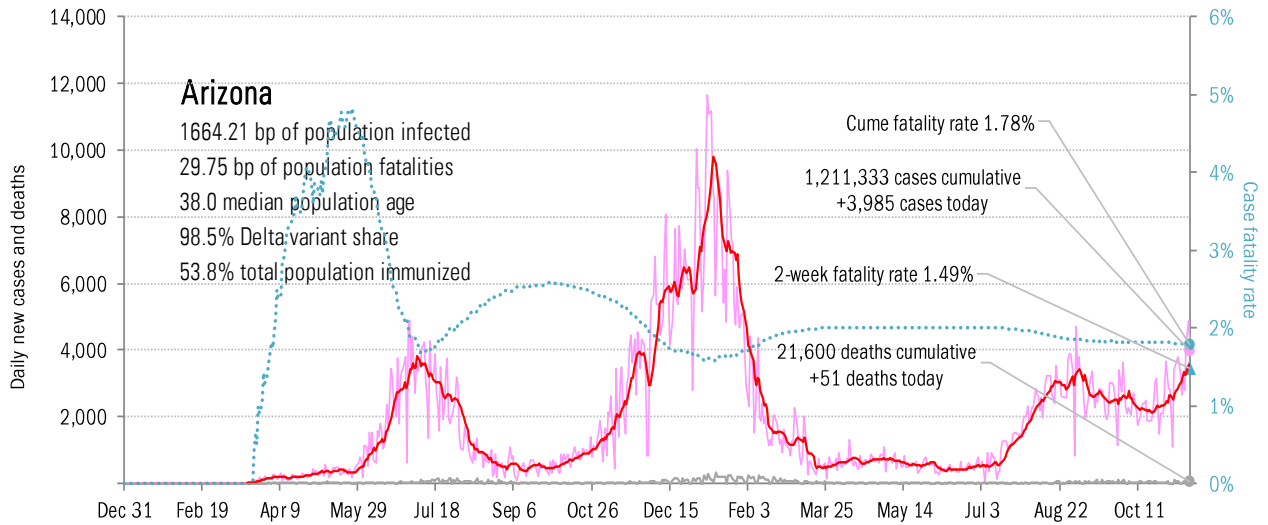
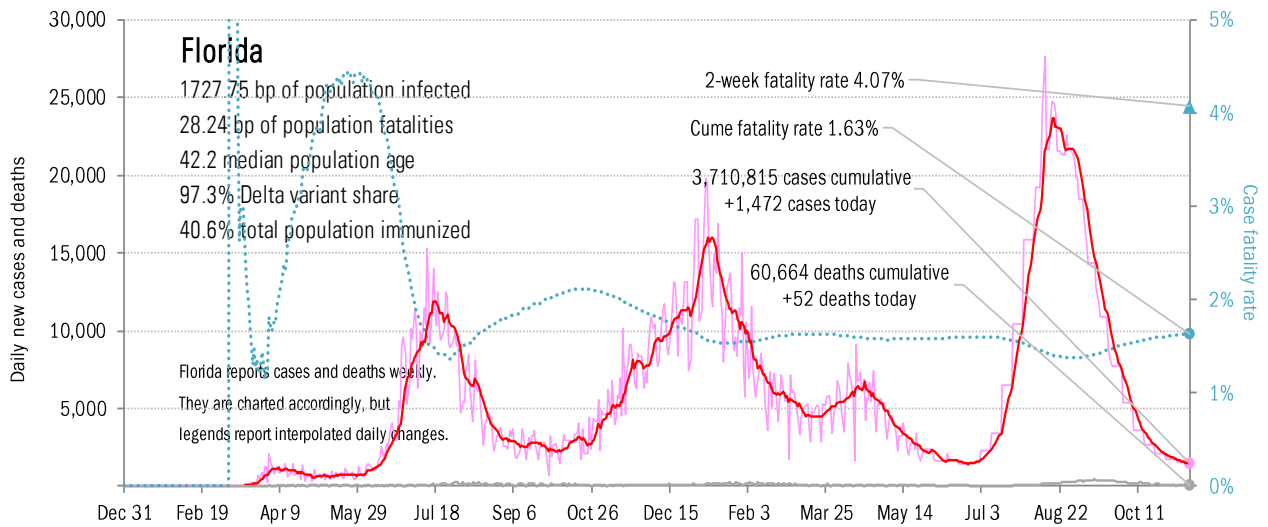
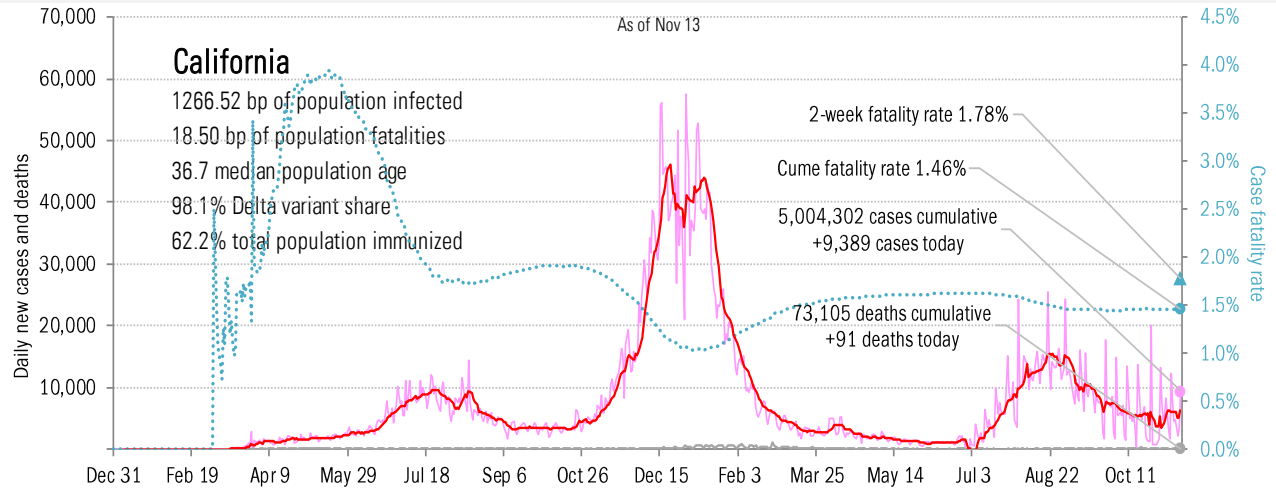
Cases: 7-day average and daily Deaths: Daily



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

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

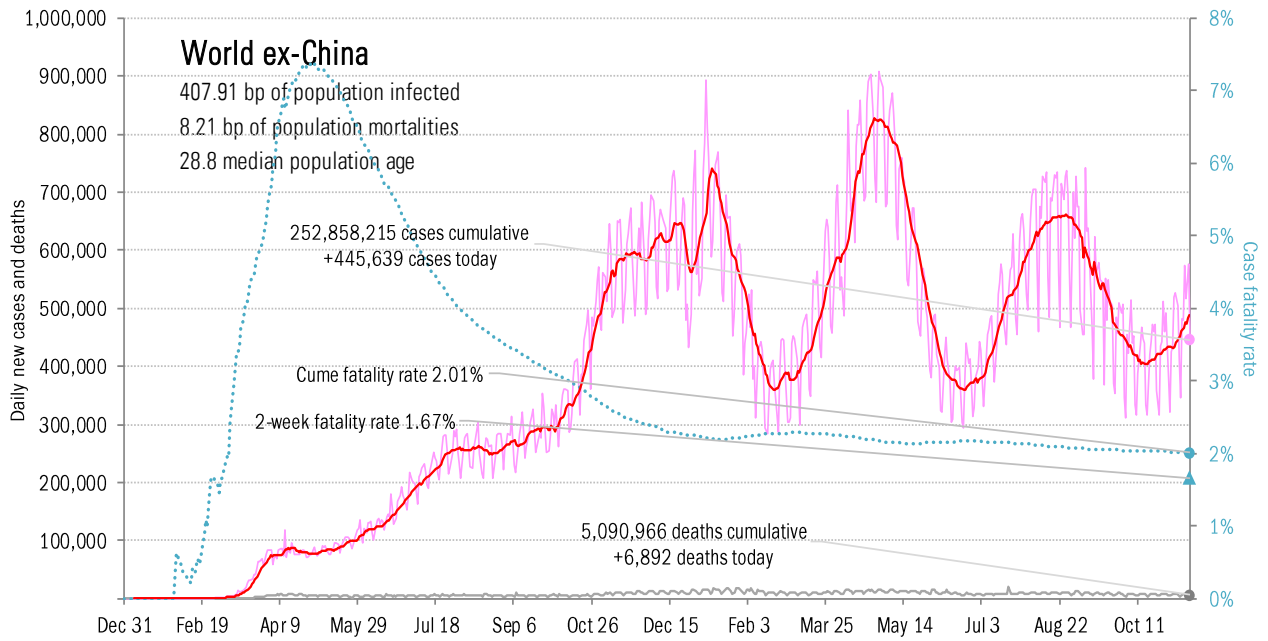
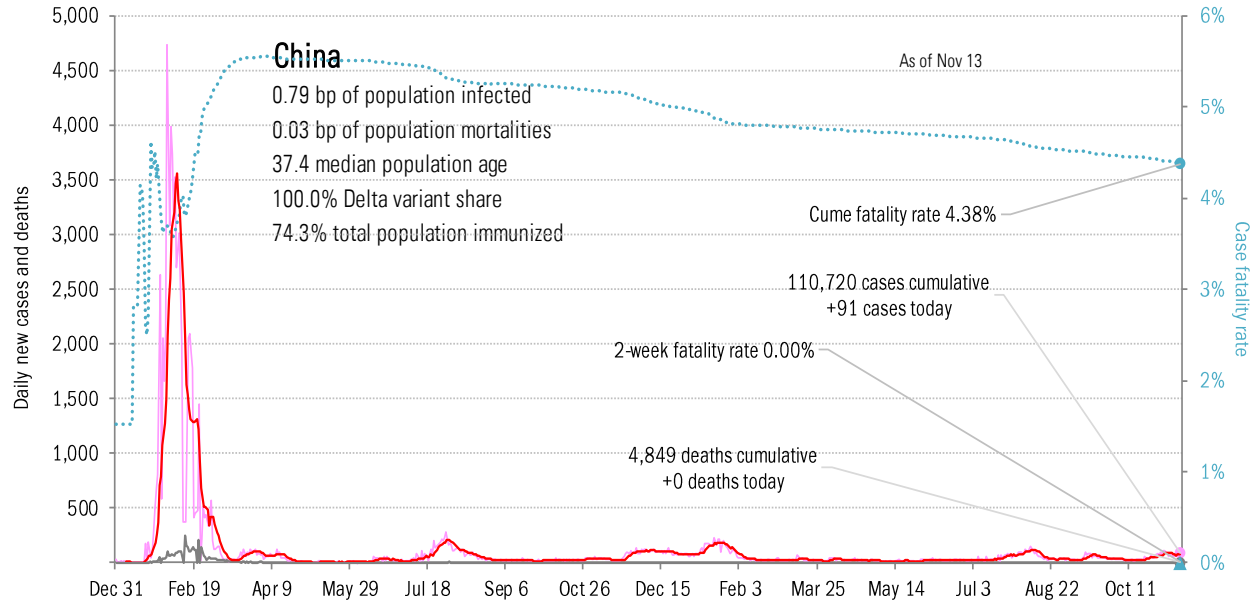
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

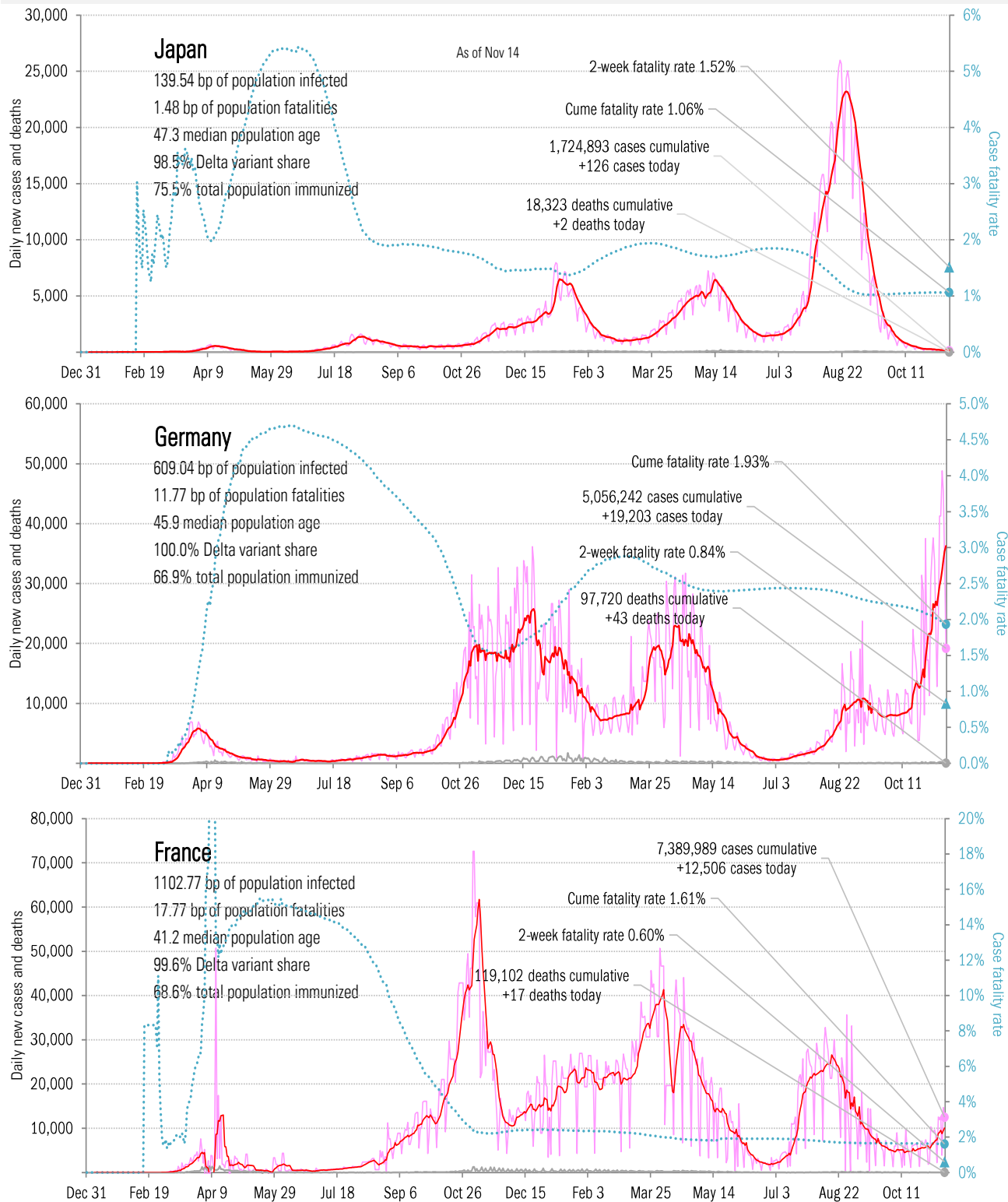
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

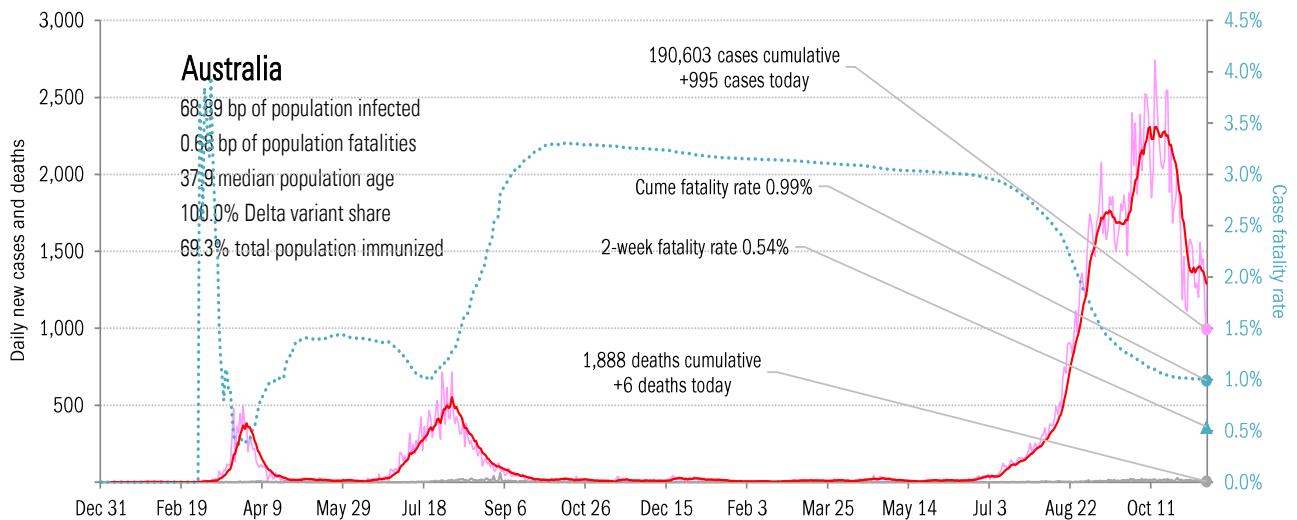
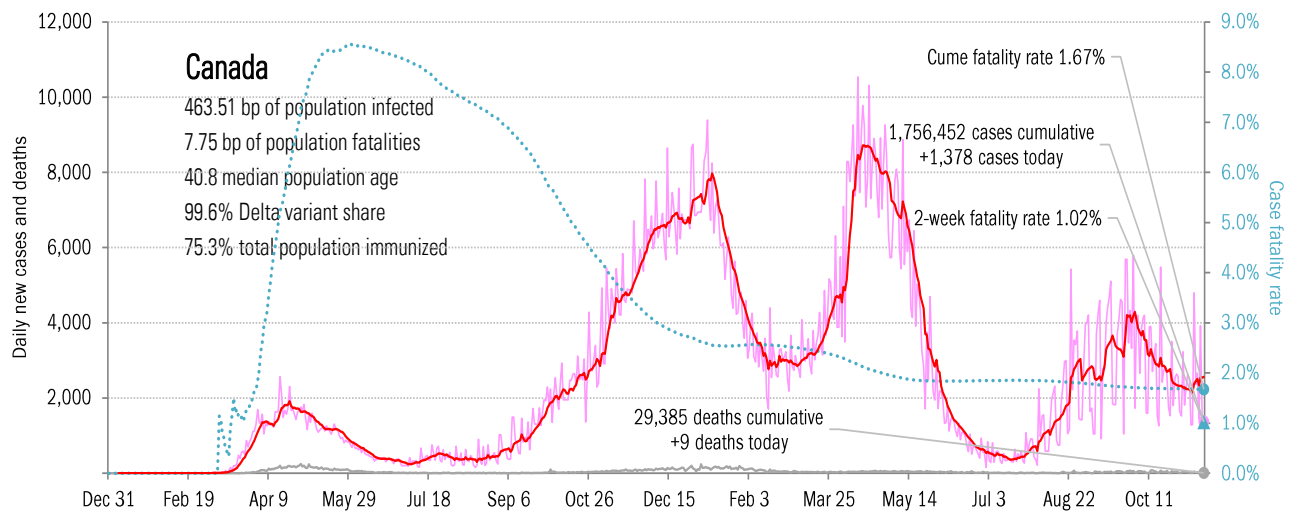
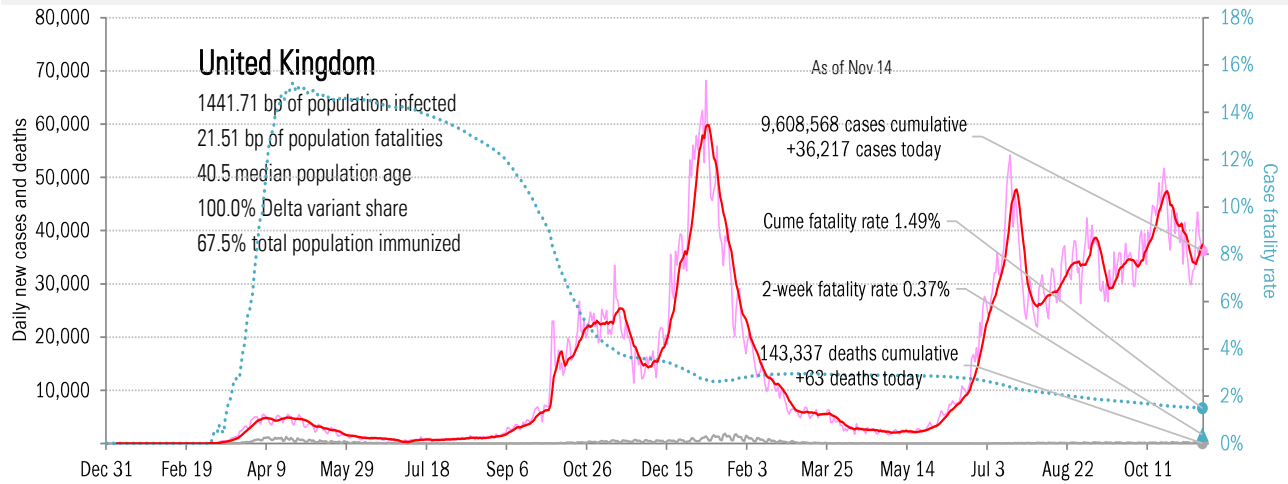
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

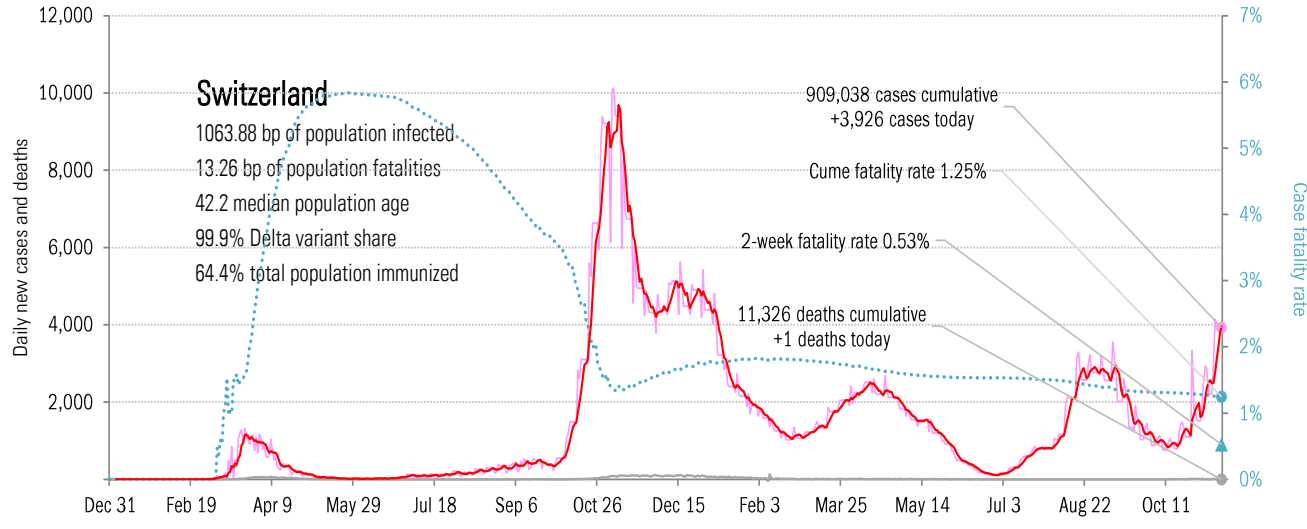
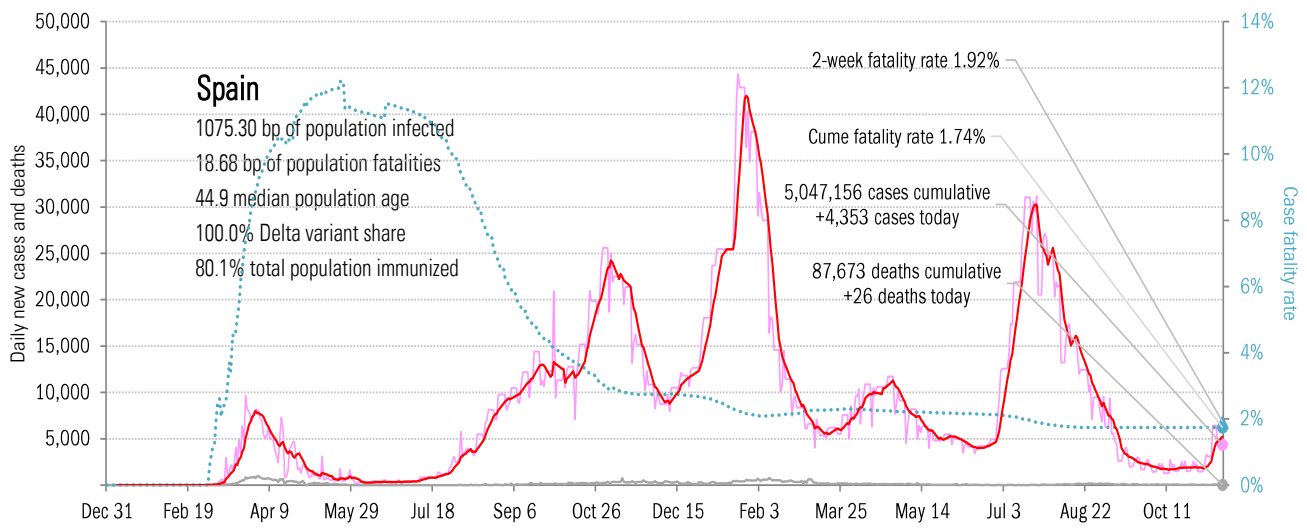
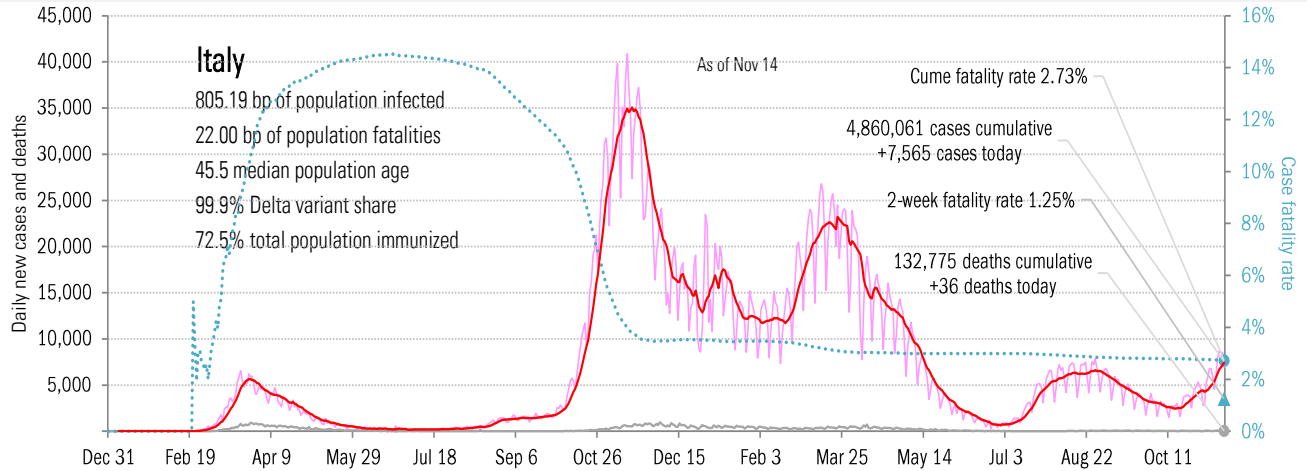
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

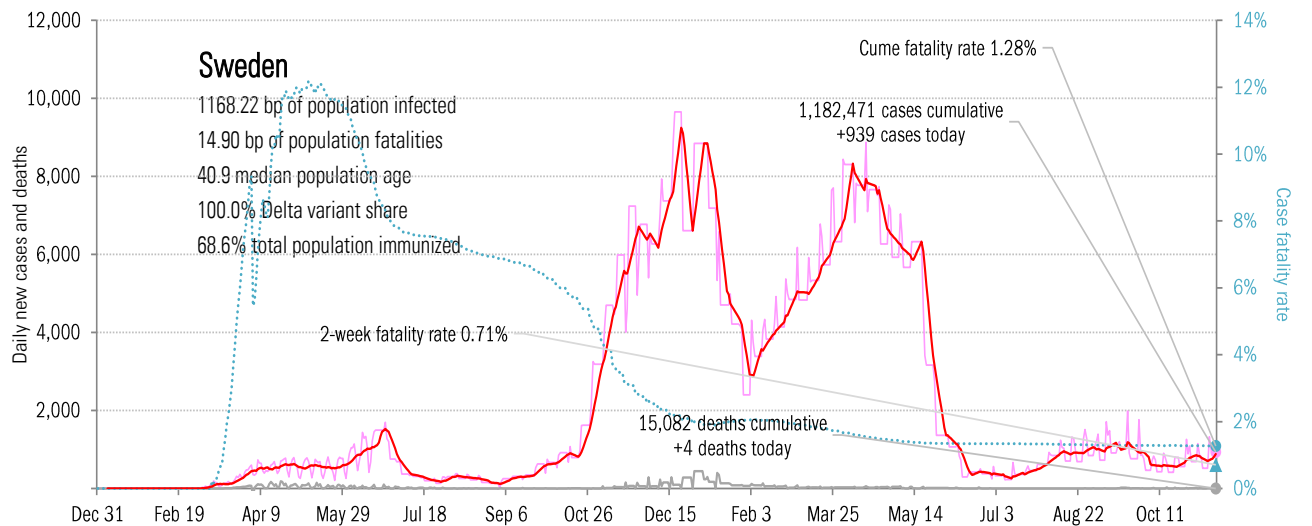
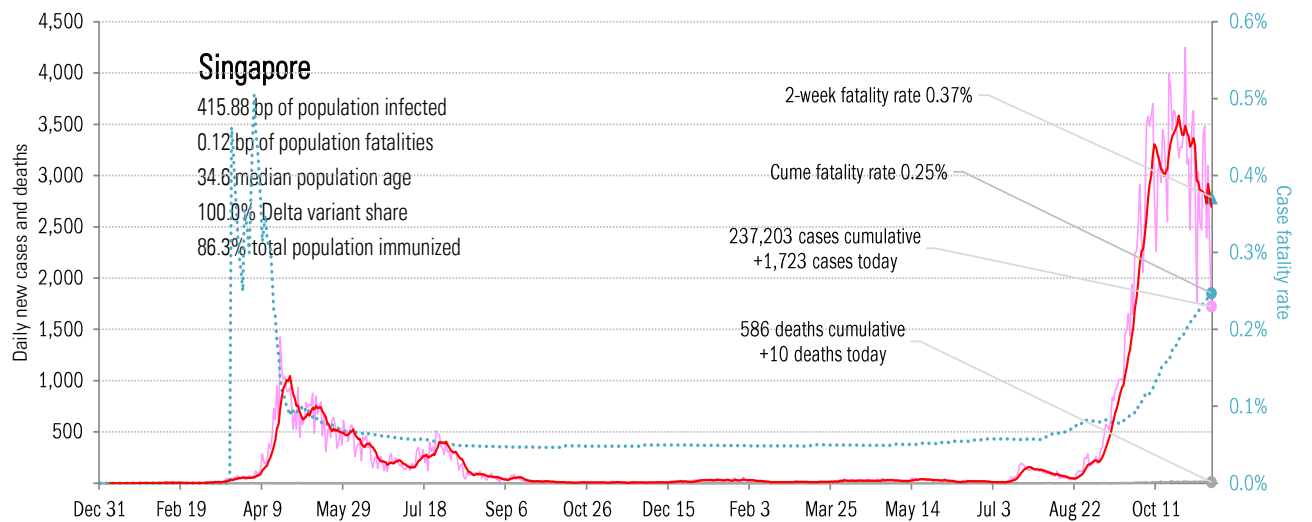
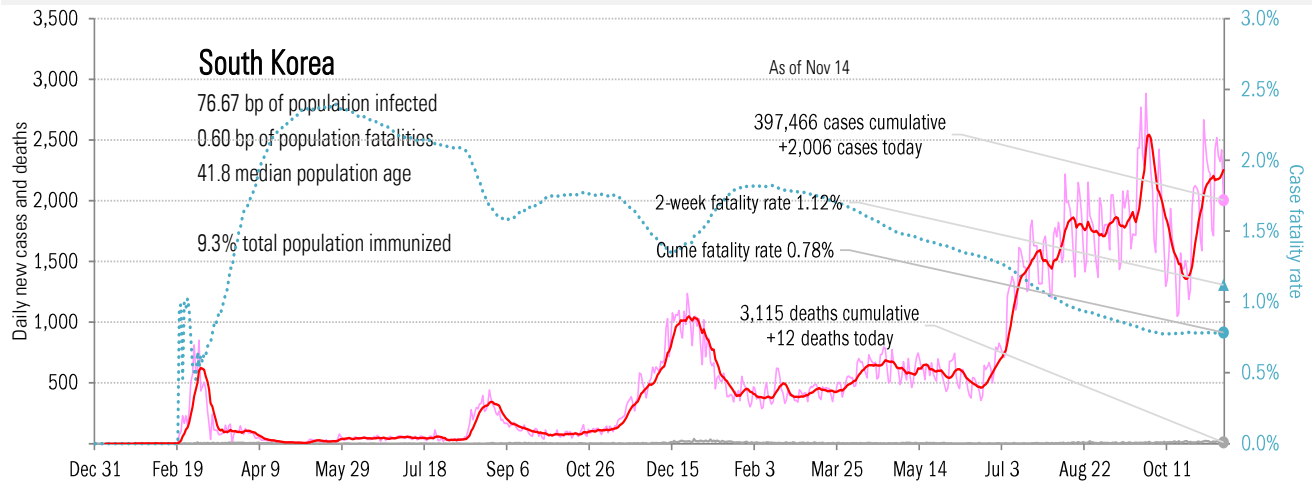
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

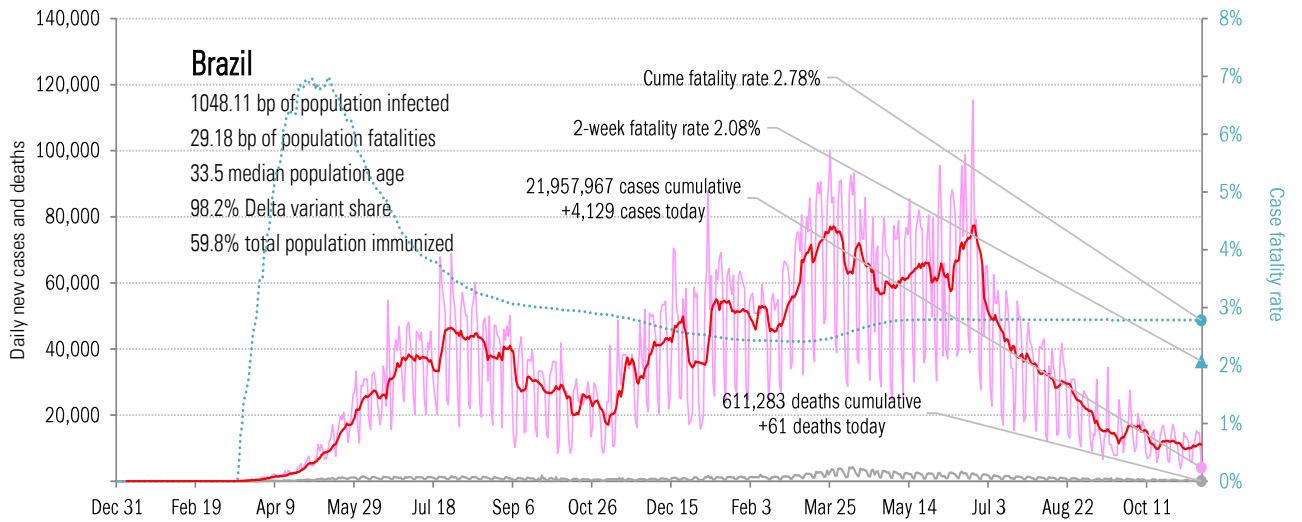
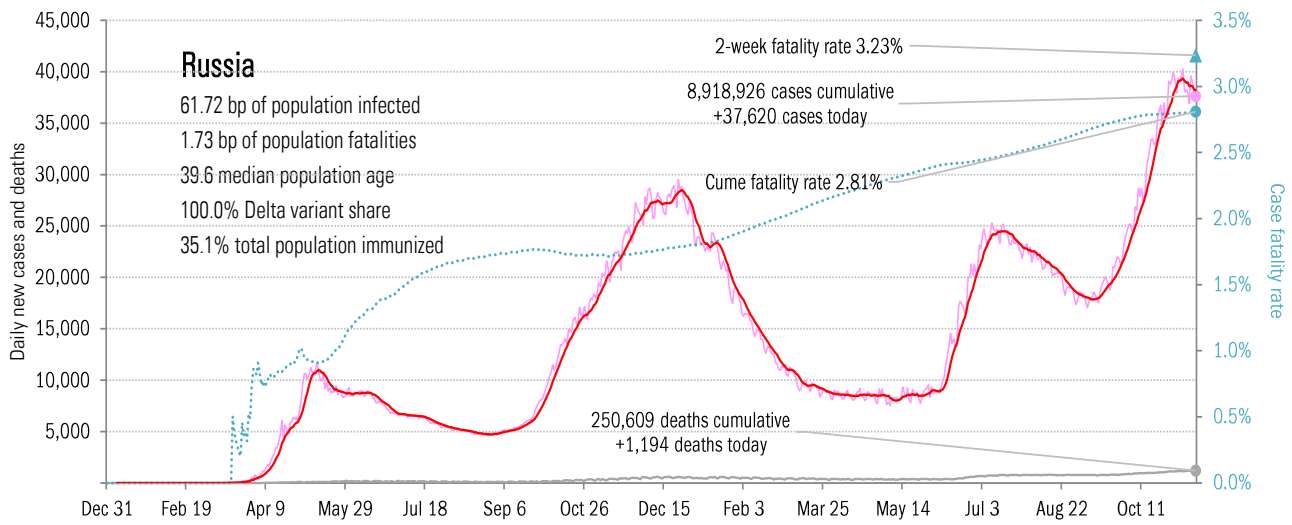
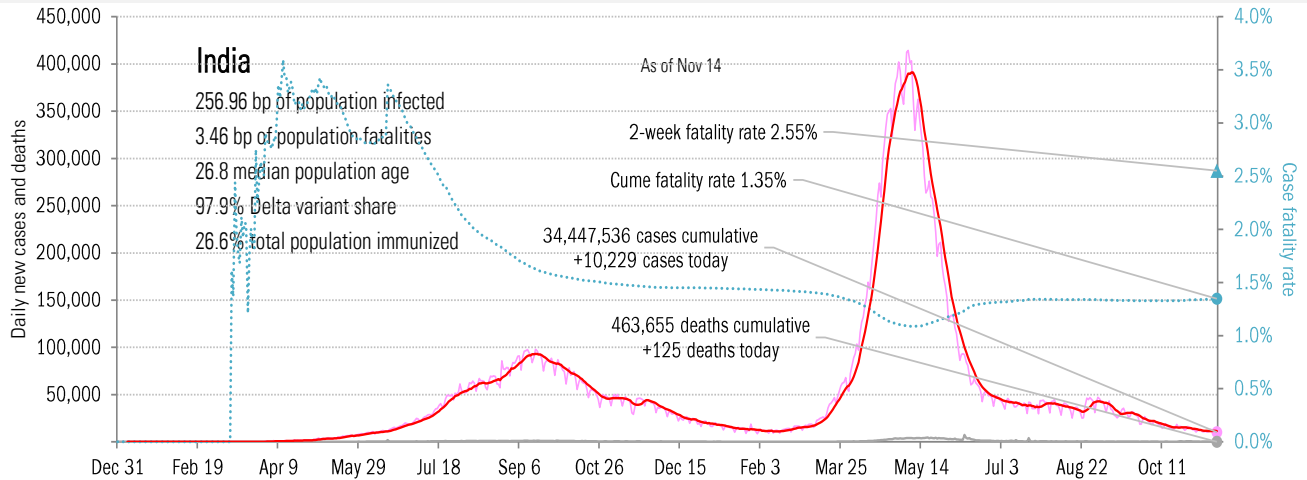
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

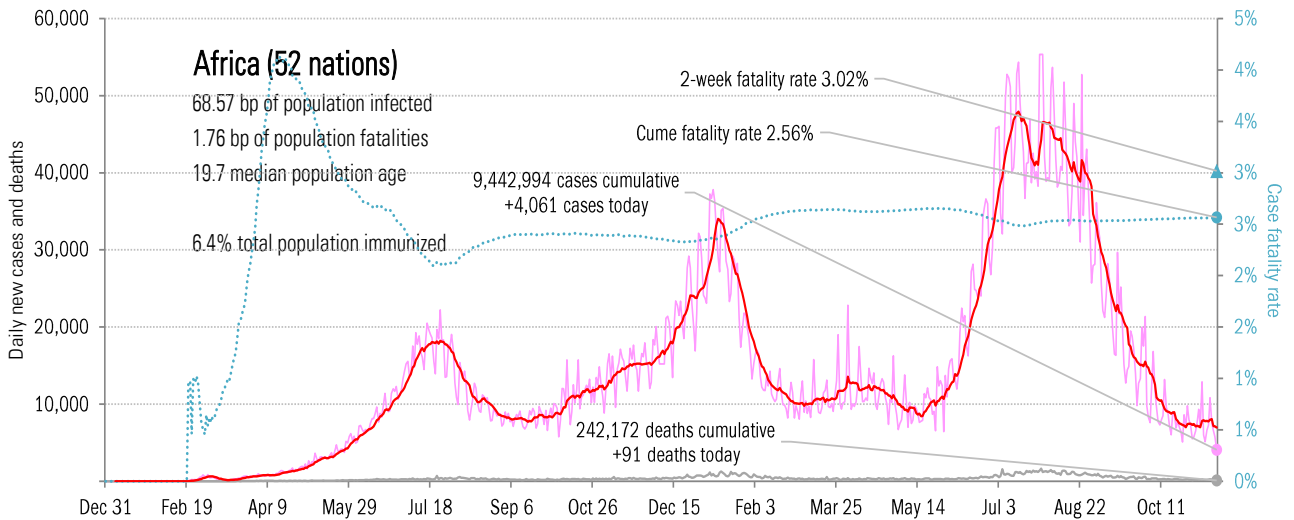
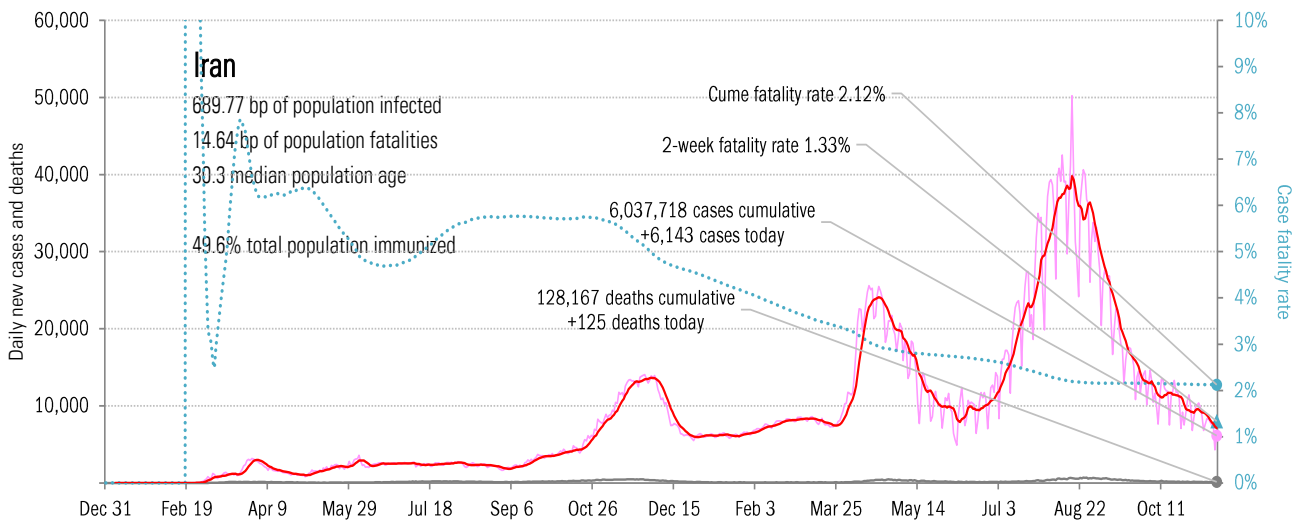
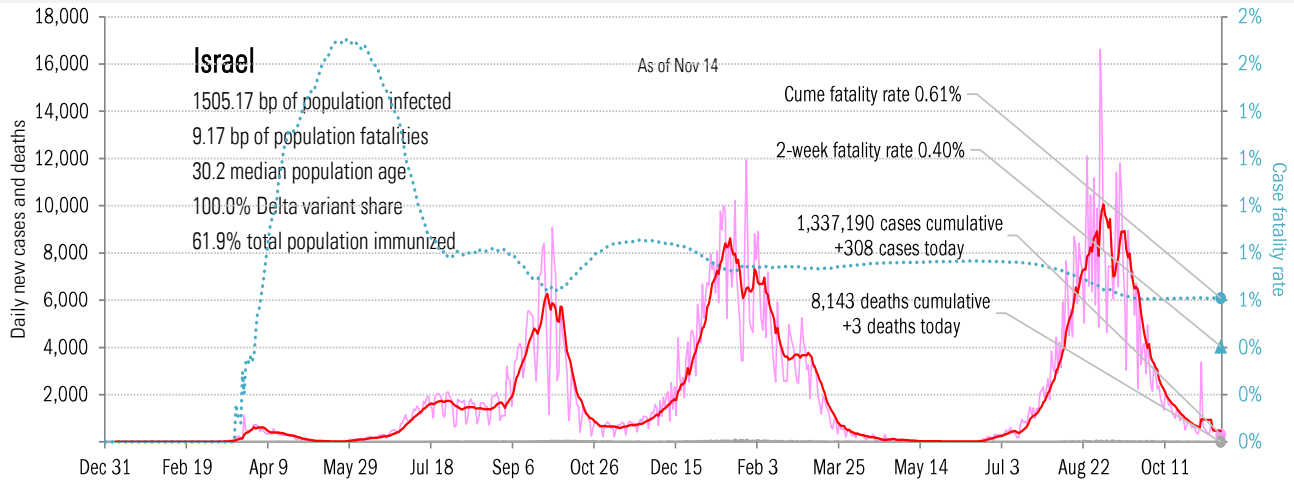
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

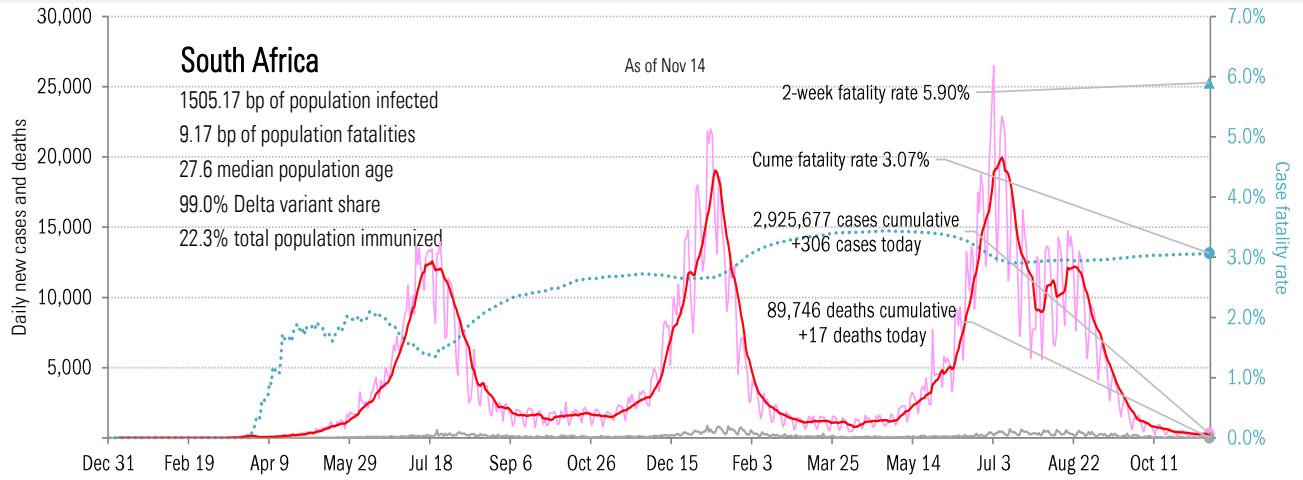
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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