

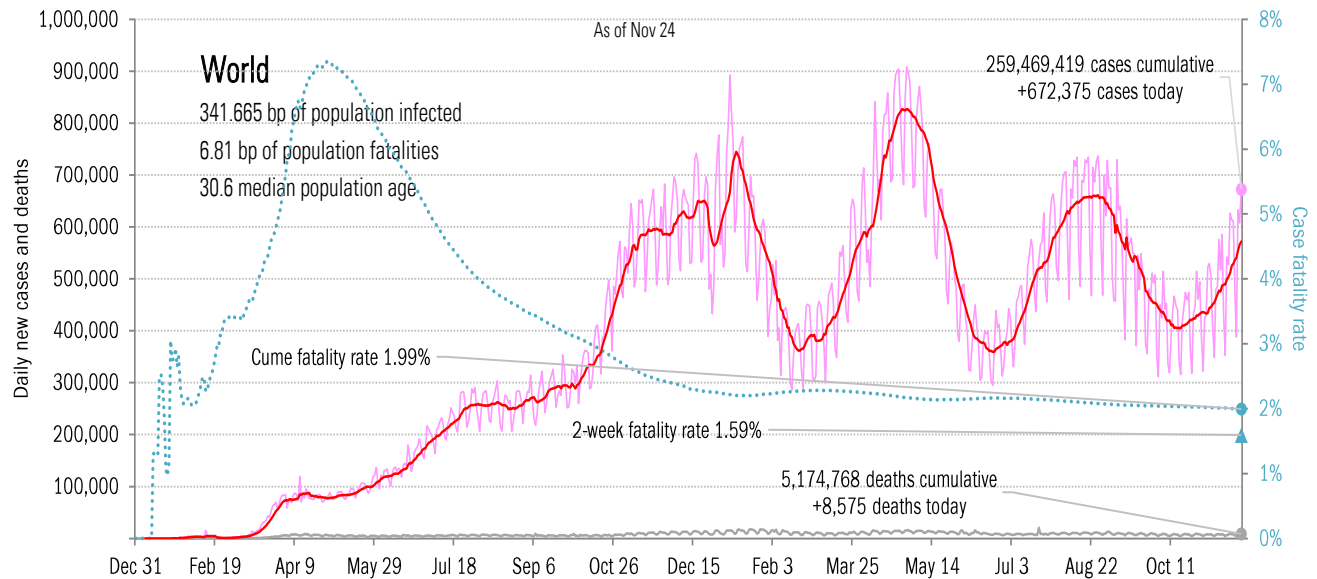
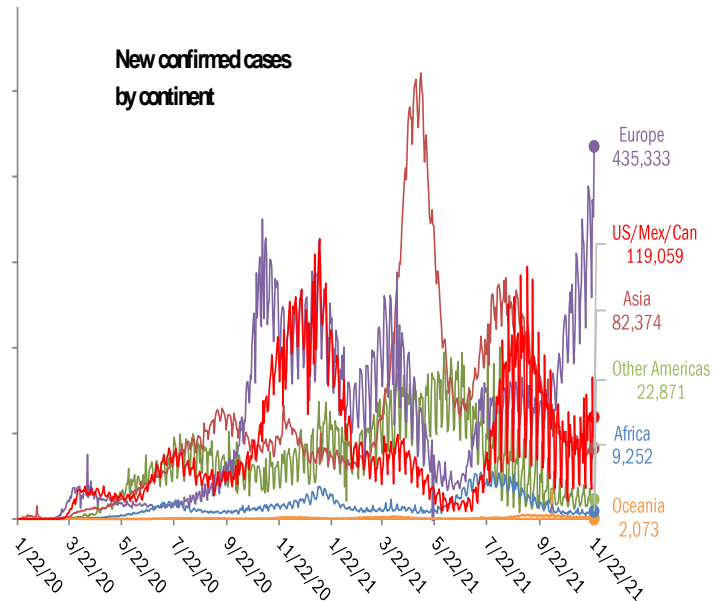
Data Insights: Covid-2019 Monitor

Thursday, November 25, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+112,685	United States	+1,676
Germany	+79,051	Russia	+1,207
United Kingdom	+42,950	Ukraine	+628
France	+32,633	Poland	+460
Russia	+32,555	India	+396
Poland	+28,431	Germany	+350
Turkey	+27,592	Mexico	+326
Czechia	+25,949	Brazil	+273
Netherlands	+23,783	Romania	+231
Belgium	+23,350	Philippines	+200
+428,979		+5,747	
World +672,375		World +8,575	
Top ten 64%		Top ten 67%	



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

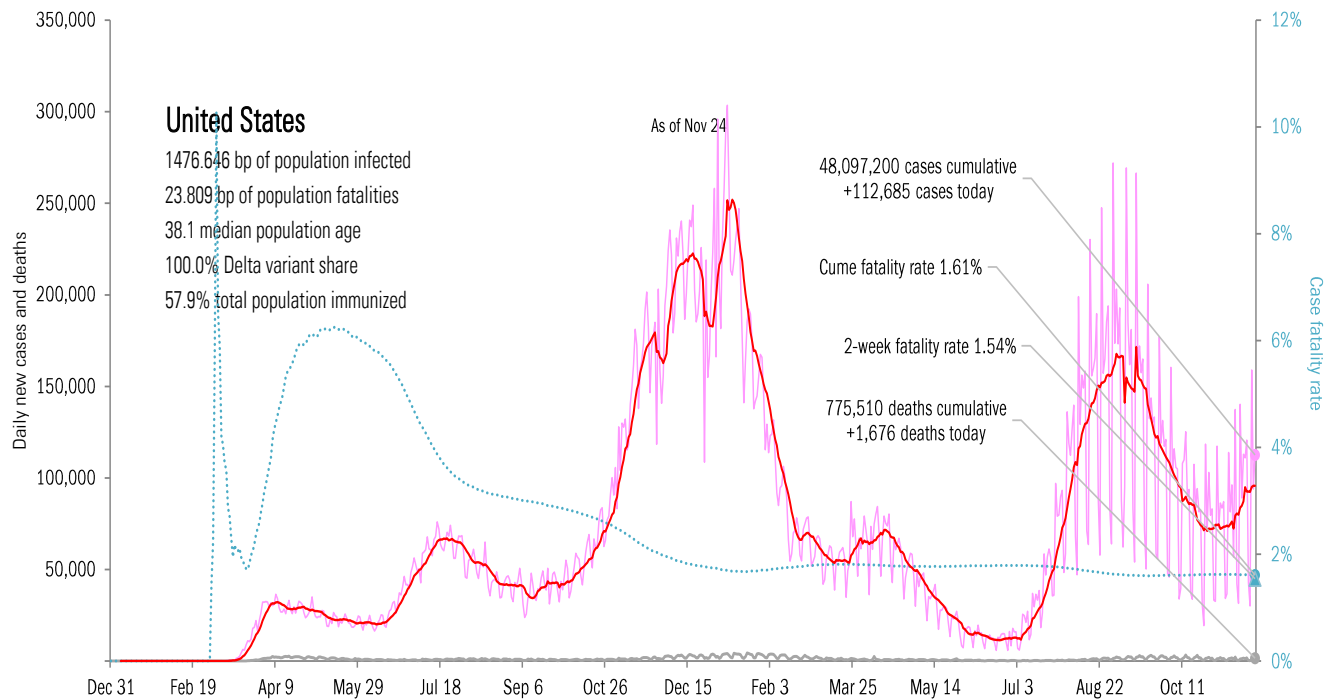
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
MI	+20,039		MI	+316		IN	+90		CA	5,057,759		CA	74,093		TX	382,077		RI	87%	NM	90%
PA	+7,569		CA	+154		AZ	+87		TX	4,320,753		TX	73,605		FL	322,632		PA	86%	RI	90%
NY	+7,075		PA	+98		CH	+60		FL	3,726,651		FL	61,254		CA	318,662		MA	85%	KY	89%
CH	+6,751		TX	+87		GA	+56		NY	2,692,142		NY	57,298		NY	170,391		MI	85%	PA	85%
IL	+5,058		IA	+86		MI	+43		IL	1,784,900		PA	33,101		GA	162,450		WA	84%	AL	85%
WI	+4,733		GA	+60		NY	+43		PA	1,704,528		GA	30,358		CH	132,401		NH	82%	CK	85%
TX	+4,514		MN	+53		IL	+40		CH	1,660,131		IL	28,746		PA	124,313		MN	82%	VT	85%
AZ	+4,064		CO	+52		PA	+39		GA	1,659,491		NJ	28,307		KY	113,730		NY	81%	MI	85%
IN	+3,983		TN	+51		WI	+38		NC	1,524,078		CH	26,190		IL	109,103		MD	80%	DE	84%
MN	+3,731		OR	+50		NJ	+37		MI	1,447,230		MI	25,244		MI	100,641		CT	80%	MN	84%
+67,517			+1,007			+533			25,577,663			438,196			1,936,400						
All states	+112,685			+1,676			+678		All states	48,097,200			775,510			3,477,391		All states	70%		67%
Top ten	60%			60%			79%		Top ten	53%			57%			56%		Median	77%		78%

Some states not reporting

Five most improved US states

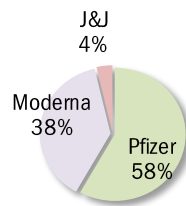
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MN	-7,720	CH	-127	PA	-101	AL	+20 bp
FL	-2,322	AZ	-84	MI	-84	IL	+20 bp
IA	-1,318	MO	-58	NY	-45	NC	+20 bp
CA	-879	IN	-36	AR	-30	SD	+20 bp
TX	-587	MT	-31	CH	-24	AR	+10 bp



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	466,911,006	+1.234 million	US	57.9%	68.8%
Boosters	75,522,147	+0.750 million	UK	67.8%	74.5%
	One dose	% Pop	Immune	% pop	New immune today
Total population	237,181,739	71%	201,235,053	60%	+0.198 million
Age 12 to 17	14,578,933	61%	12,204,198	51%	+0.013 million
Age 18 to 64	161,412,632	79%	139,275,008	68%	+0.147 million
Age 65 and over	56,597,161	100%	48,806,495	89%	+0.035 million



AK
62.3%
54.0%

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

Best
Middle
Worst

Every American >18 immunized in **168 days** by May 10, 2022
 72.7% of population >18 immunized
 14.3% previously tested positive
87.0% vs 60% adult herd immunity

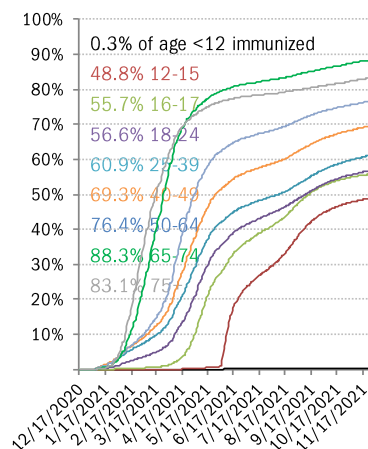
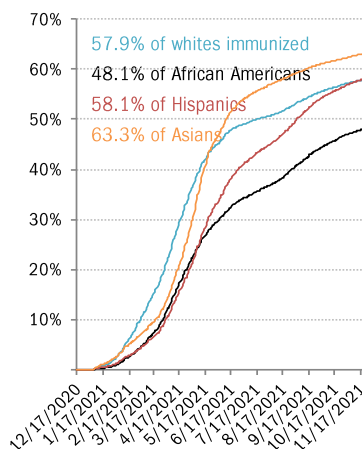
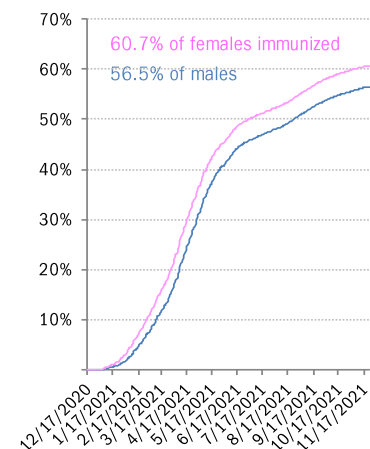
France	69.2%	76.6%
Spain	80.4%	81.9%
Germany	67.6%	70.2%
Italy	72.8%	77.9%
Australia	71.9%	77.1%
Israel	62.1%	67.6%
Canada	76.0%	79.3%
Japan	76.8%	79.0%
Africa	7.1%	10.6%
India	30.1%	55.6%
Brazil	60.0%	75.9%
China	74.5%	84.8%

Global data differs due to sources, timing

As of Nov 24

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
72.3%	50.5%	59.4%	57.6%	68.5%	68.7%	60.8%	77.5%	84.6%	86.3%	
64.8%	45.1%	51.7%	48.6%	62.2%	61.4%	54.4%	68.2%	72.7%	64.6%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
71.0%	65.9%	53.2%	66.3%	62.2%	55.5%	58.0%	80.8%	78.4%	85.0%	
63.8%	54.2%	45.3%	54.3%	56.5%	50.5%	52.8%	58.0%	67.5%	70.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
78.2%	63.7%	70.9%	63.7%	59.4%	59.9%	53.8%	74.9%	76.4%	83.3%	82.4%
62.8%	55.2%	62.9%	57.2%	50.8%	51.9%	41.5%	64.6%	67.2%	71.7%	72.2%
AZ	NM	KS	AR	TN	NC	SC	DC	DE		
63.8%	76.0%	65.7%	60.0%	56.5%	69.4%	59.8%	80.6%	71.4%		
54.4%	63.3%	54.4%	49.1%	49.4%	54.0%	51.2%	64.1%	60.9%		
OK	LA	MS	AL	GA						
62.3%	55.3%	53.7%	56.2%	58.6%						
51.3%	48.7%	46.9%	46.0%	49.4%						
TX										
63.7%										
54.5%										
WI										
65.4%										
59.3%										
ME										
81.4%										
72.1%										
HI										
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FL										
71.3%										
61.0%										
PR										
84.2%										
73.9%										

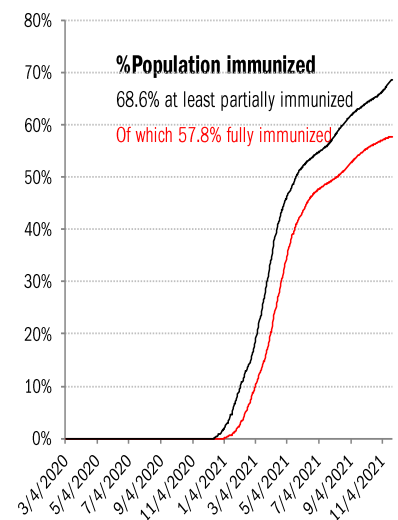
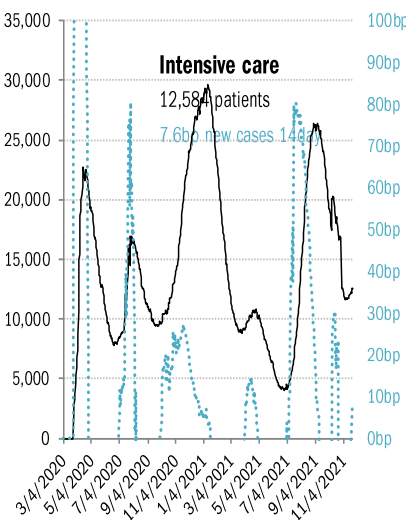
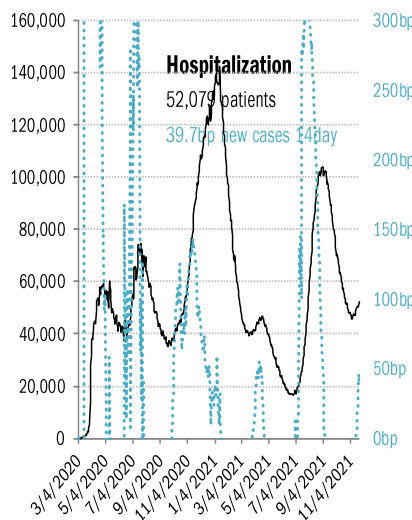
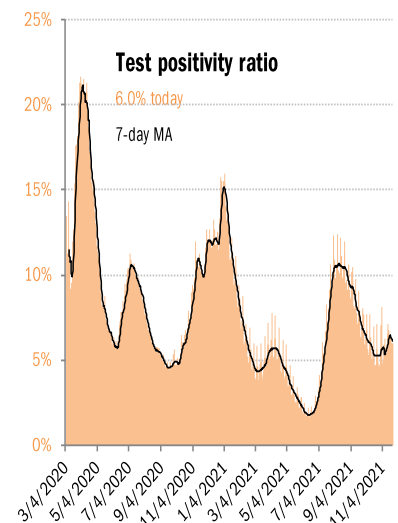
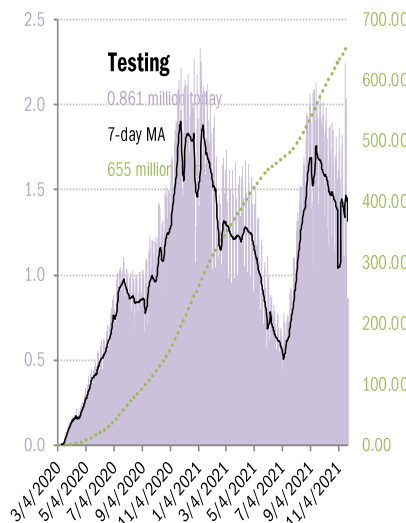
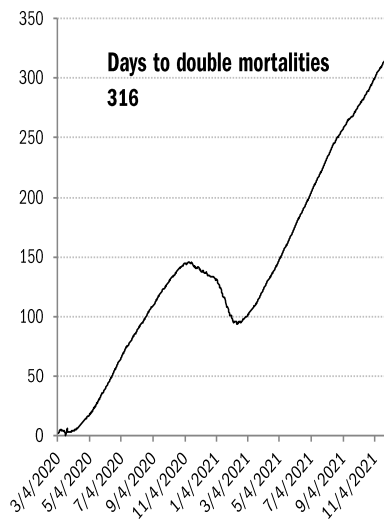
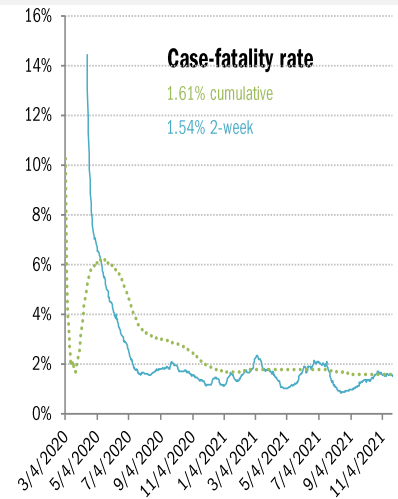
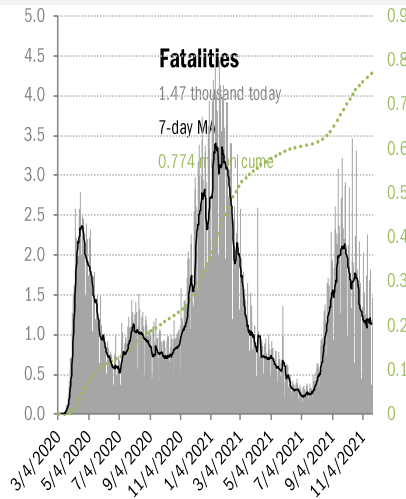
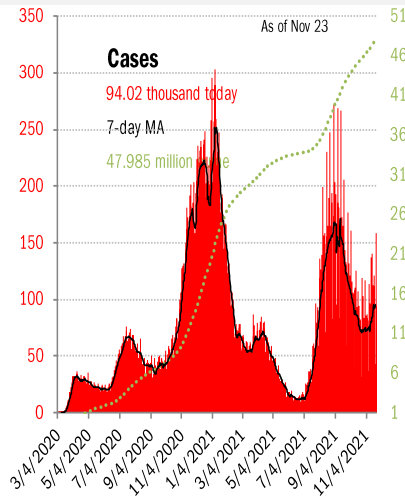
The demographics of US vaccination



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

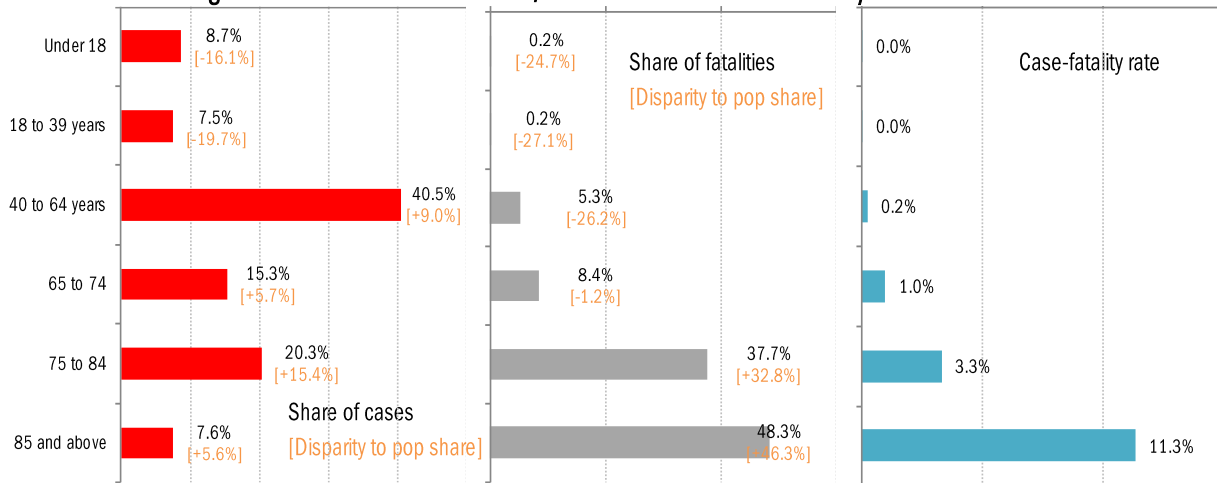
US deep-dive

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

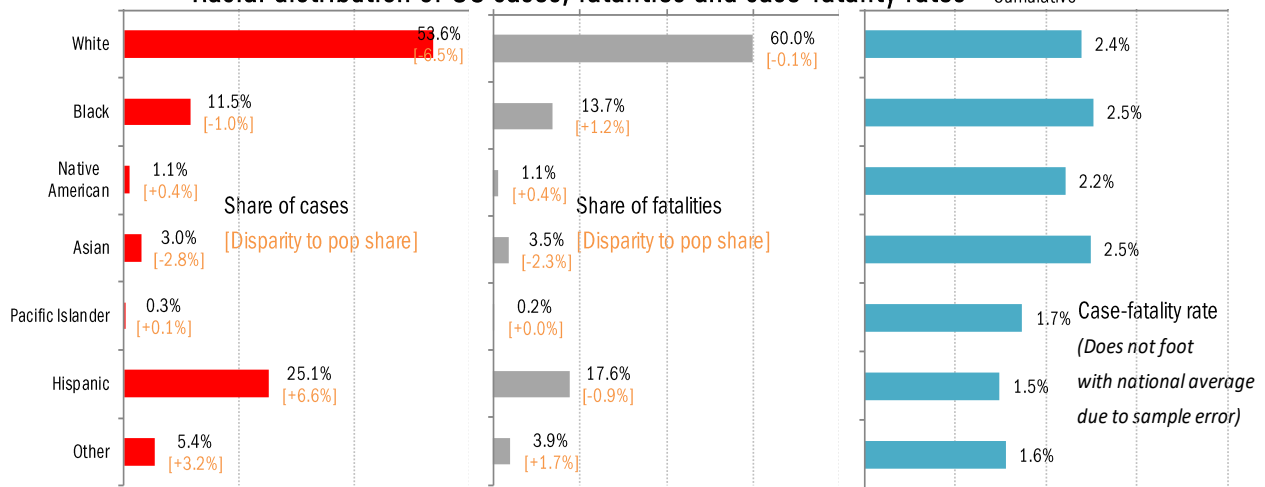


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

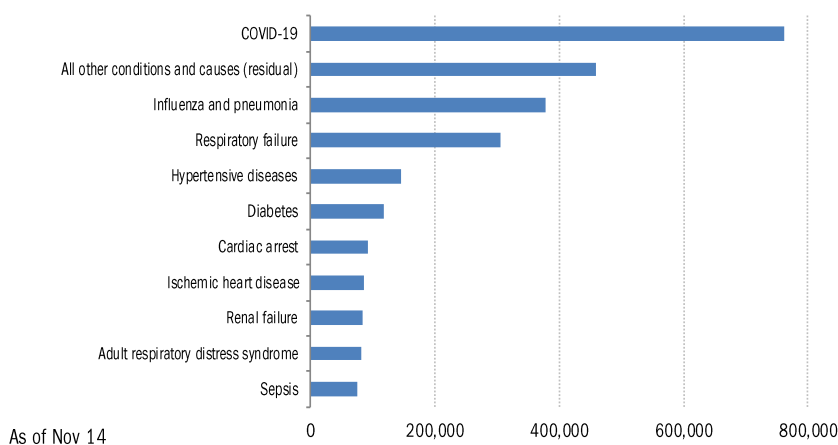


Racial distribution of US cases, fatalities and case-fatality rates



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

[UK boosted by third-jab success as infections surge in much of Europe](#)

Oliver Barnes, John Burn-Murdoch and Sam Jones
Financial Times
November 23, 2021

[Europe's Covid-19 Surge Presents Hard Choices as Winter Approaches](#)

Eric Sylversand Georgi Kantchev
Wall Street Journal
November 25, 2021

Meme of the day

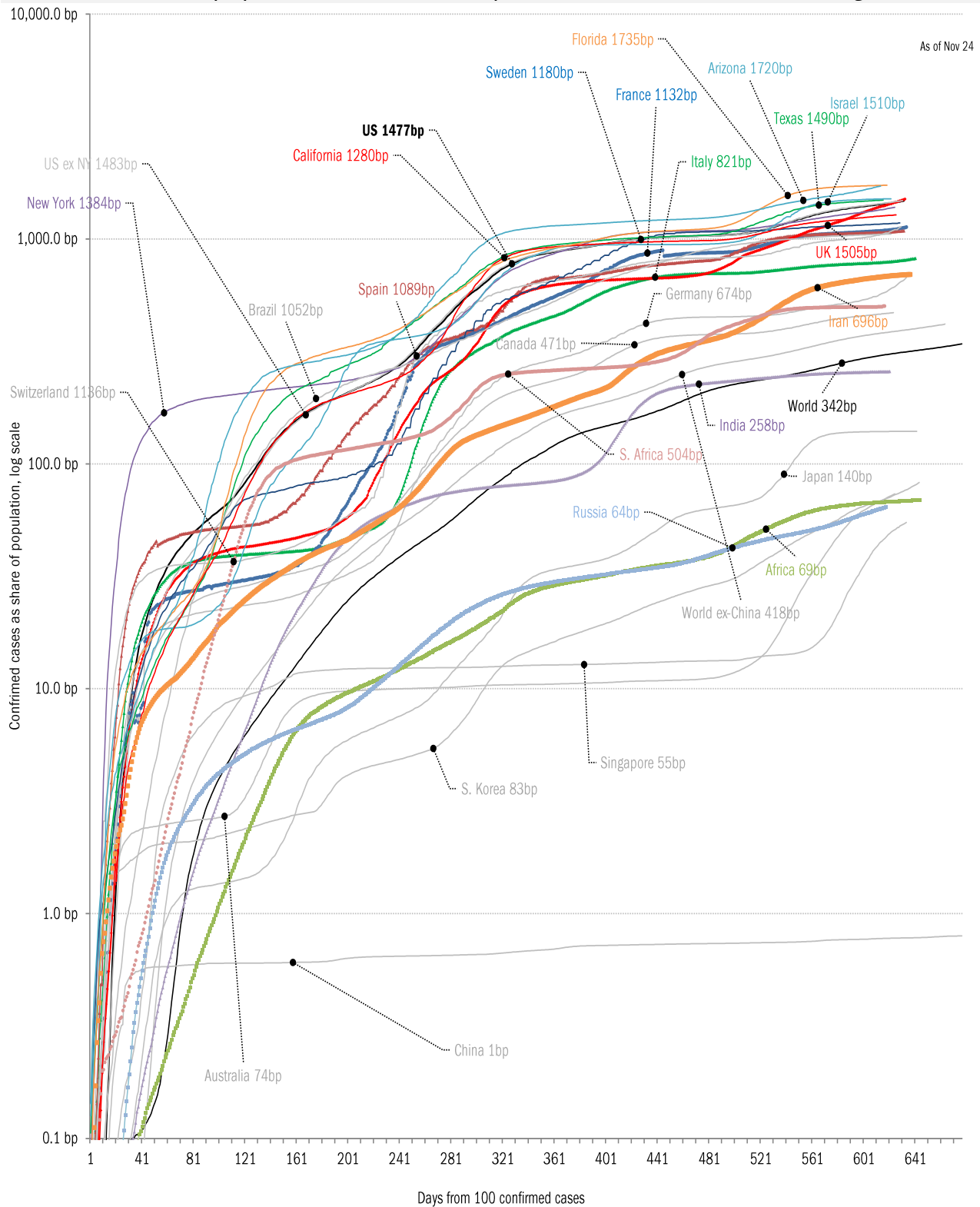
"At least we have Thanksgiving to look forward to"

Thanksgiving:



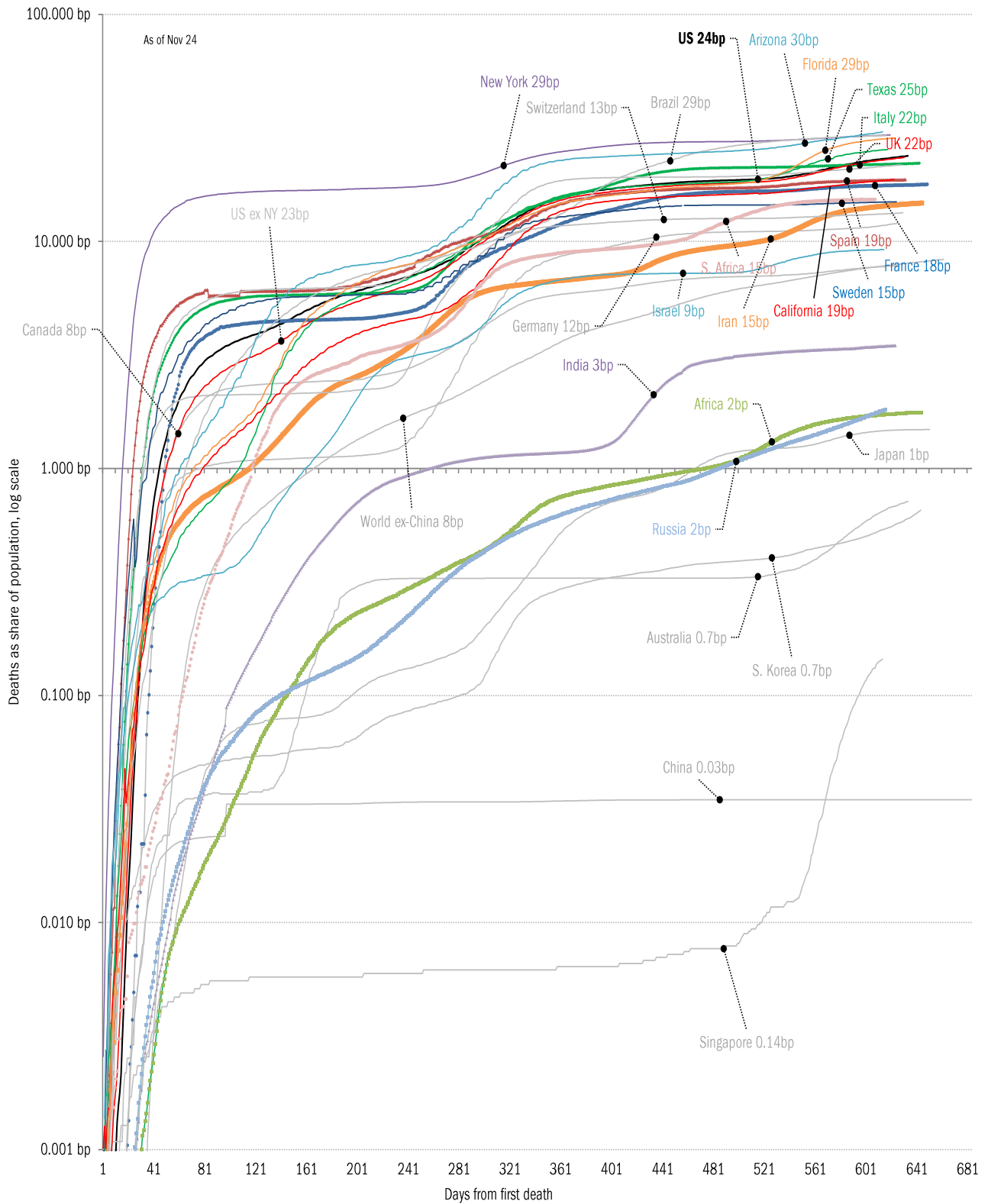
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

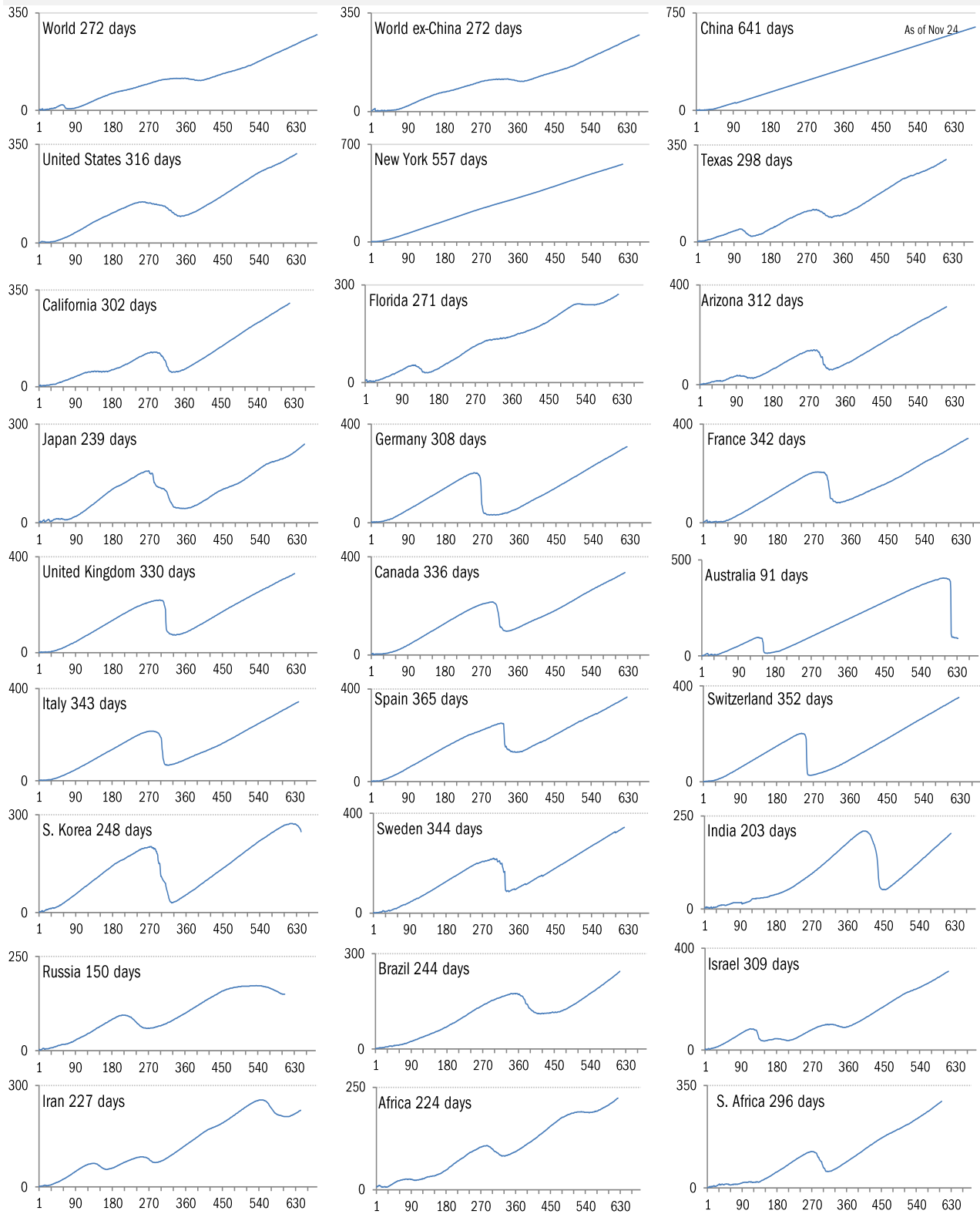


Source: [Johns Hopkins](#), TrendMacro calculations

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

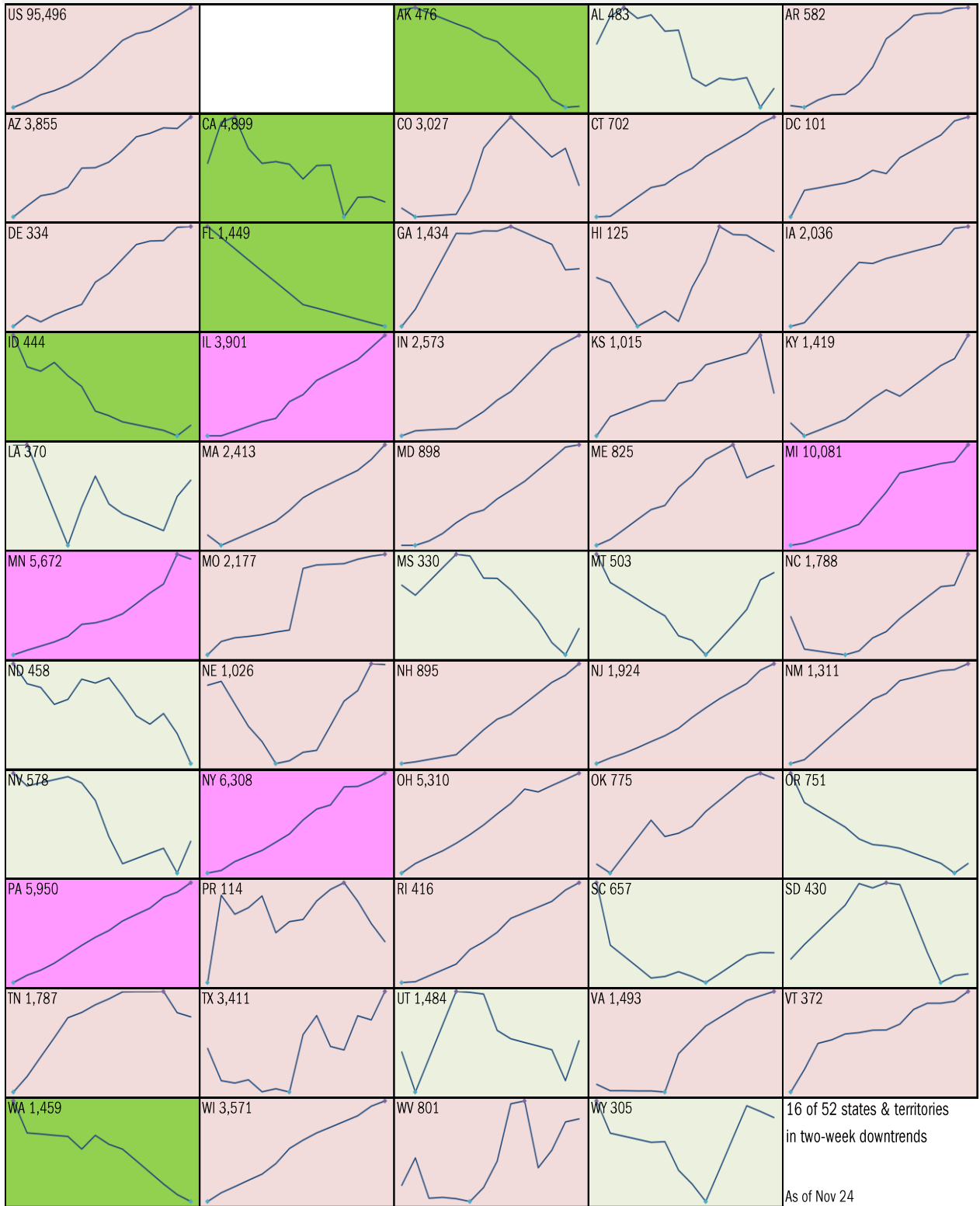
Vertical: days to double deaths Horizontal: days from first death

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

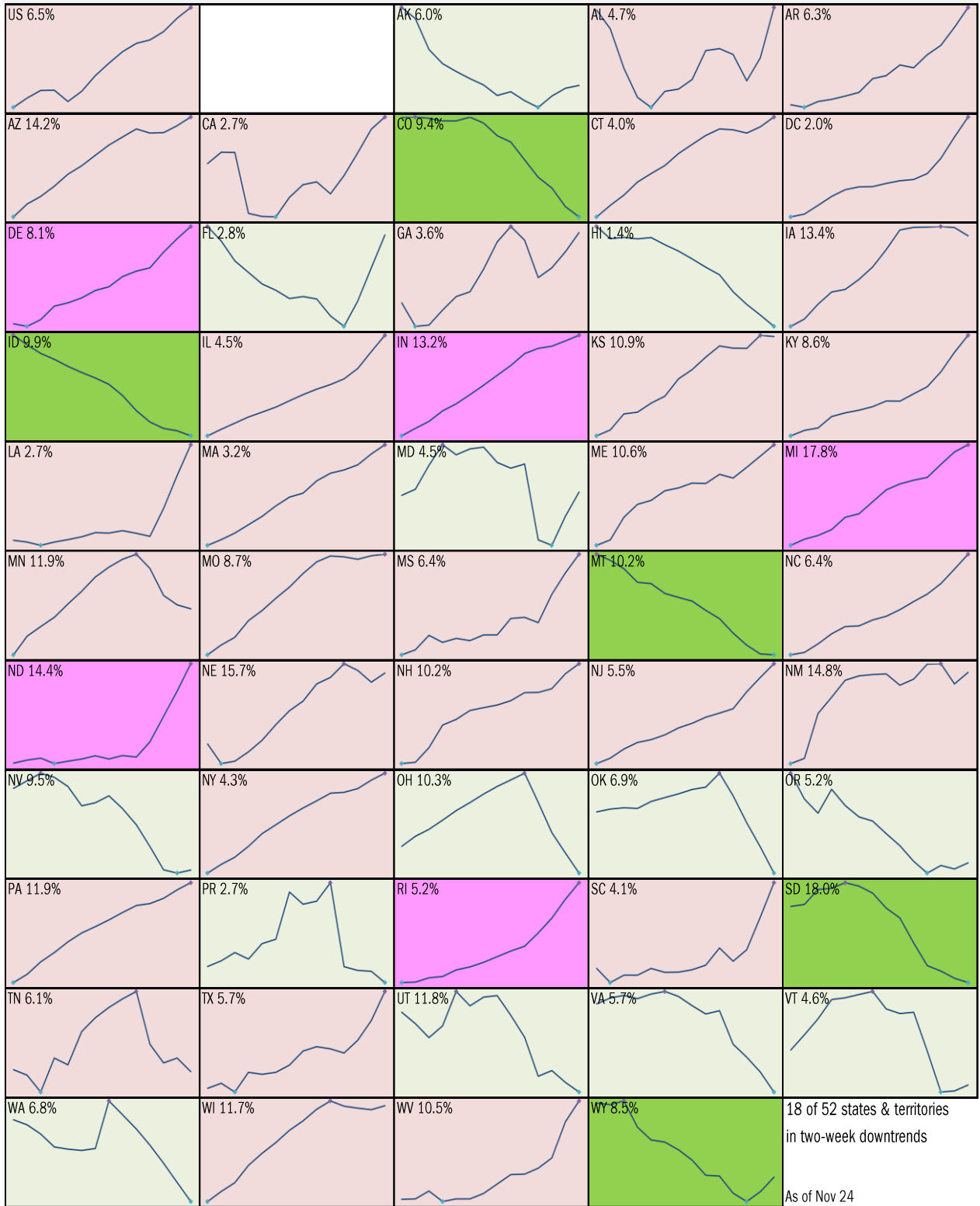


Source: [Johns Hopkins](#), TrendMacro calculations

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

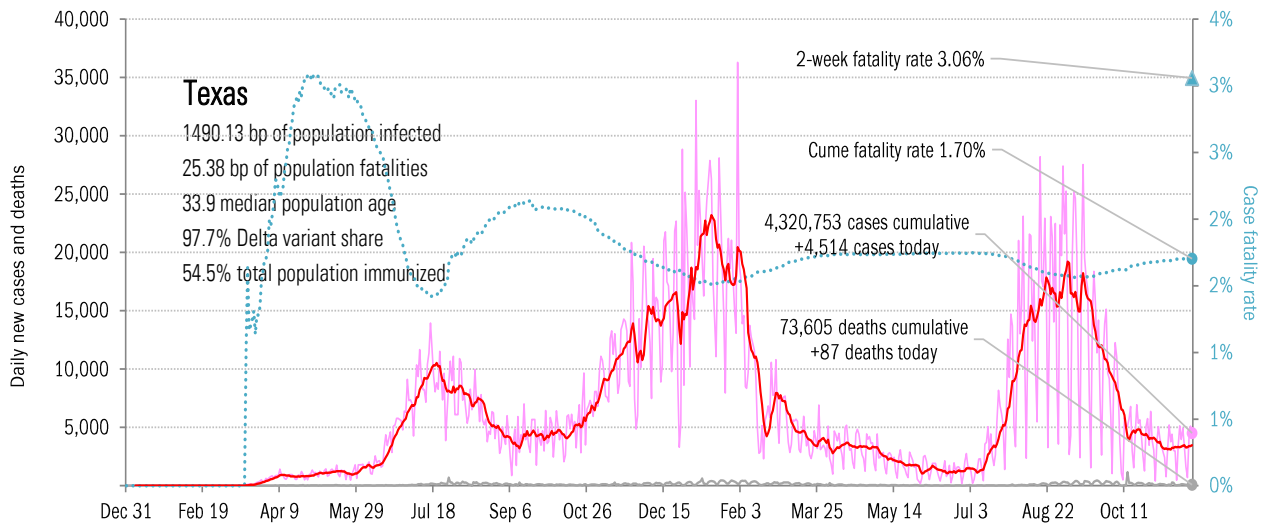
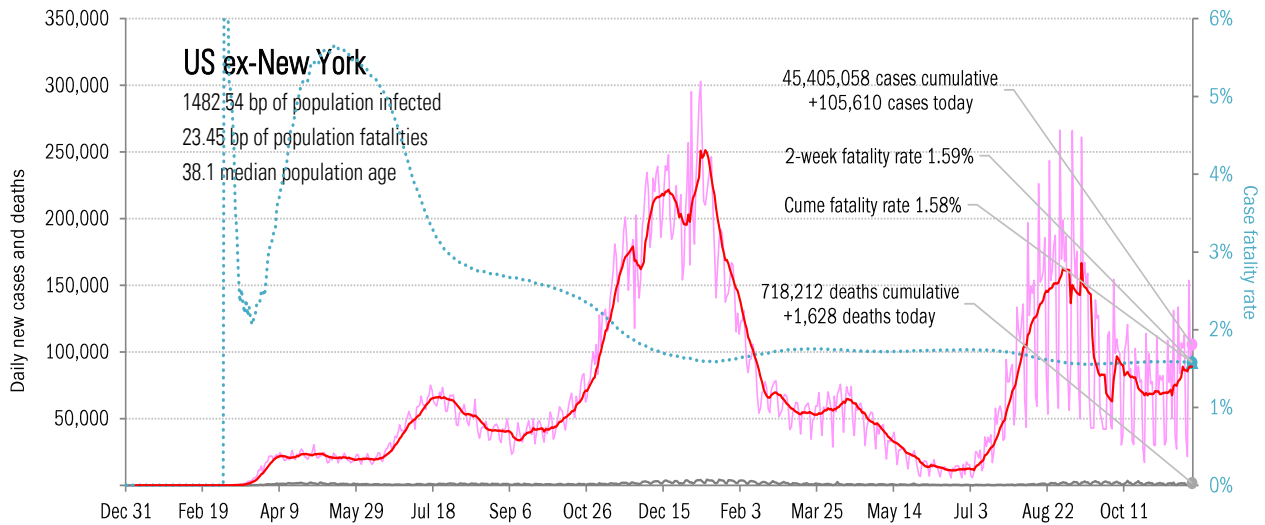
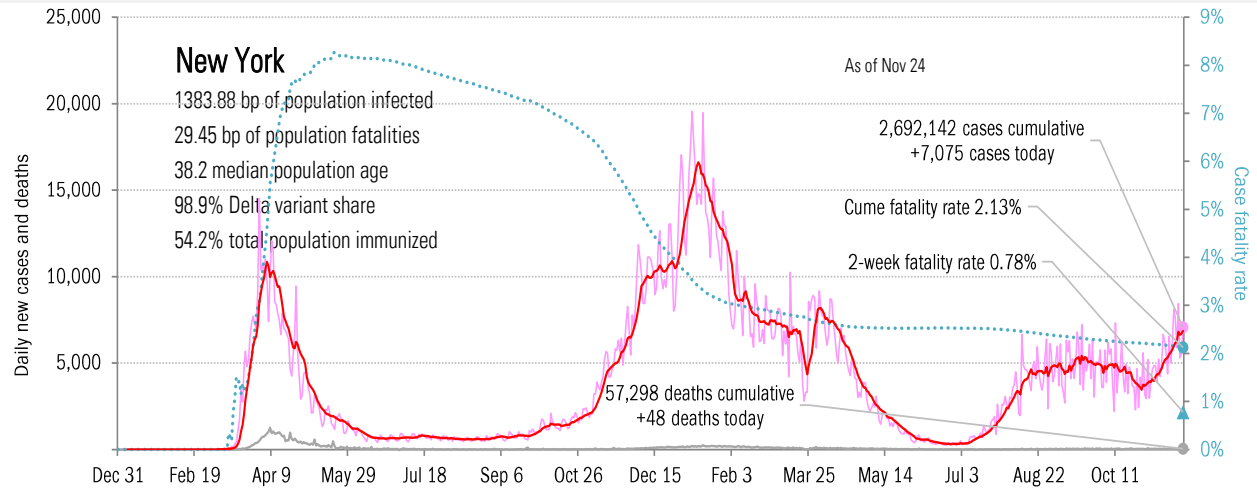
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

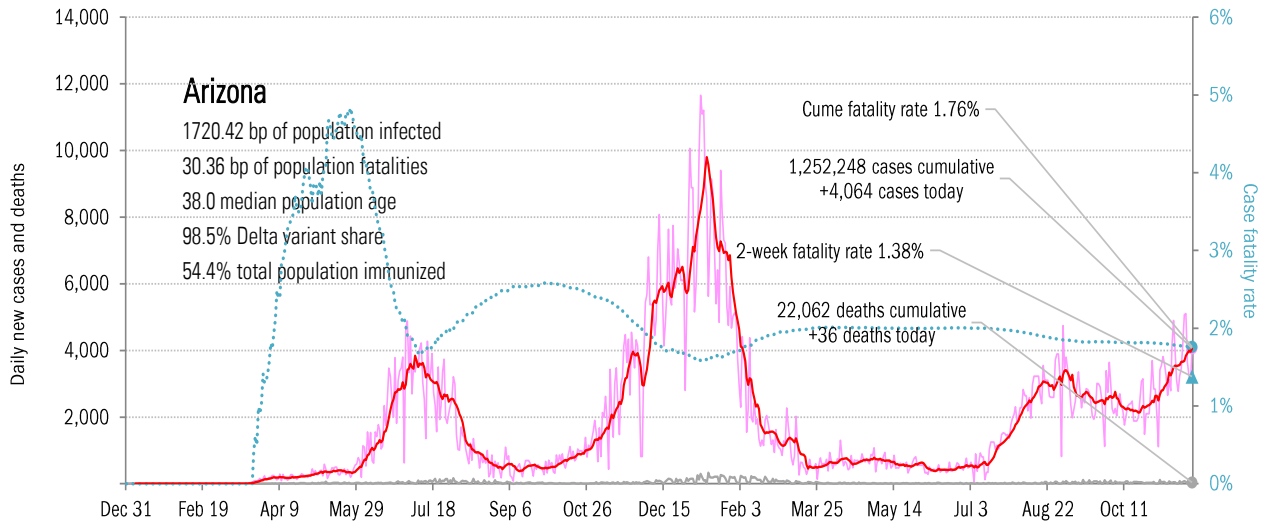
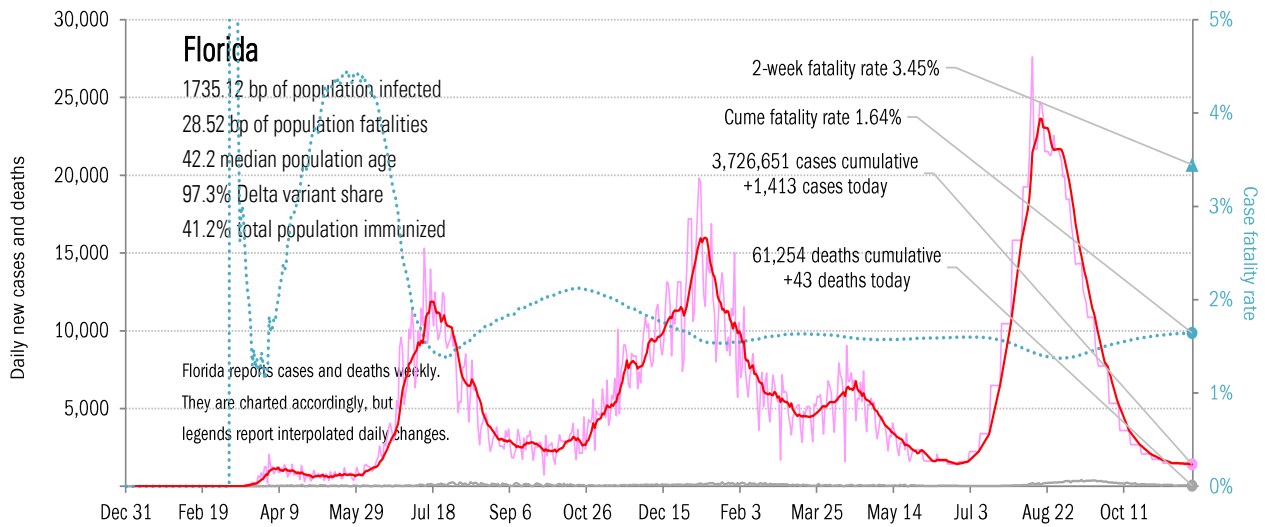
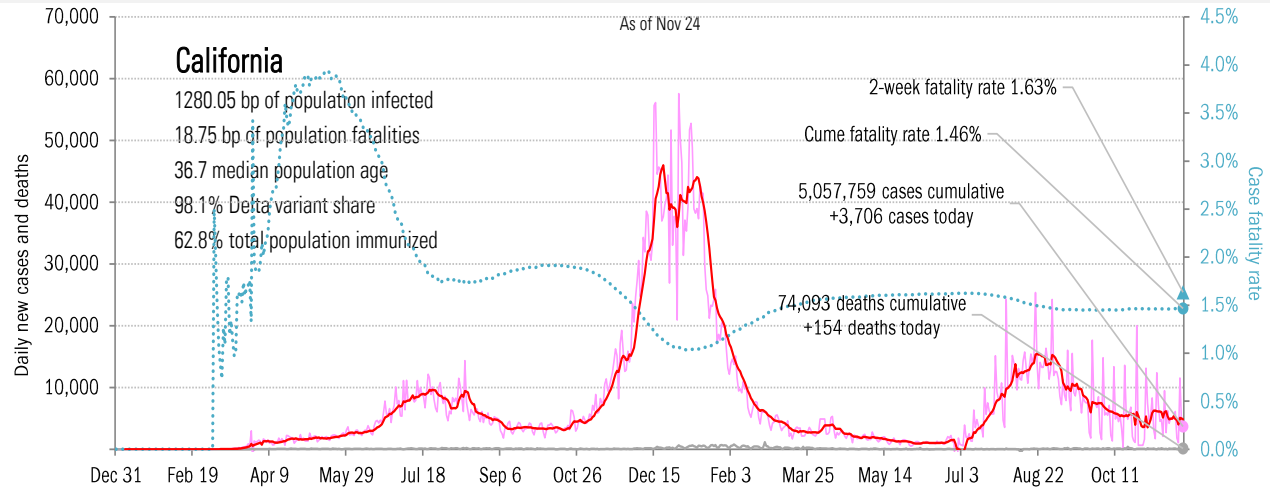
Cases: 7-day average and daily Deaths: Daily



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

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

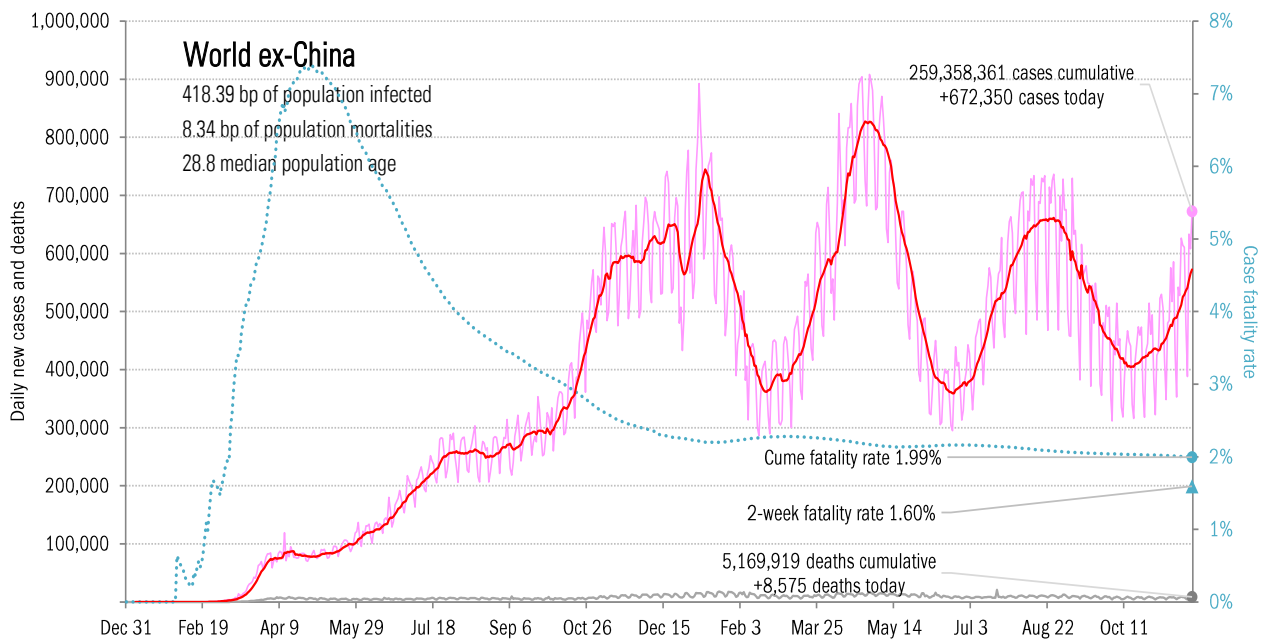
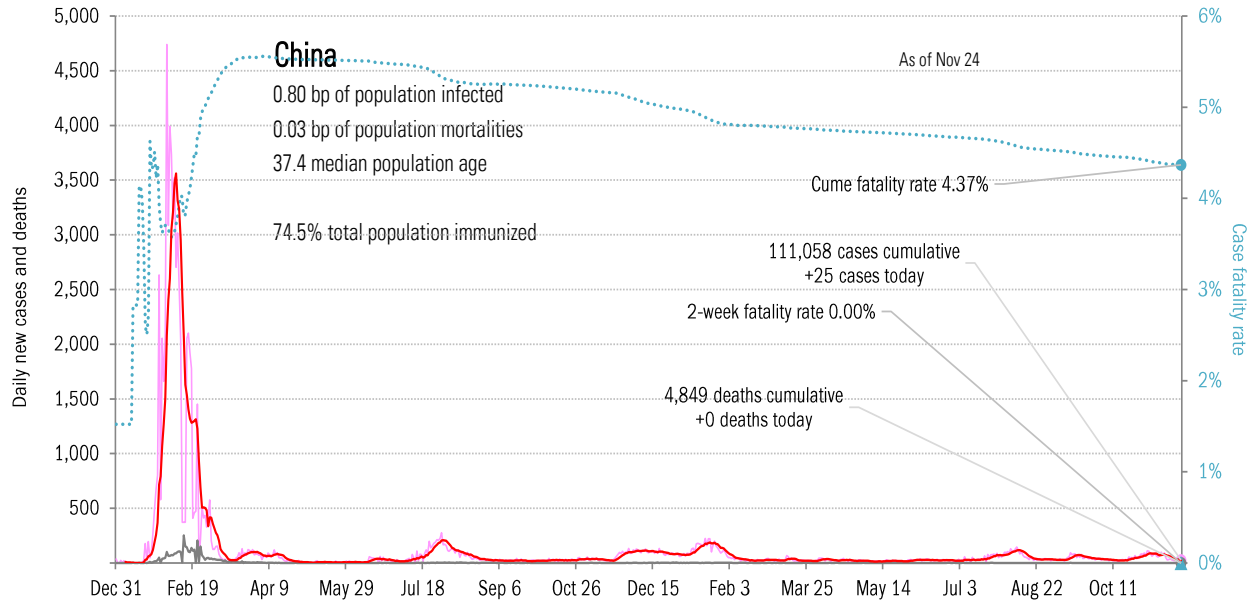
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

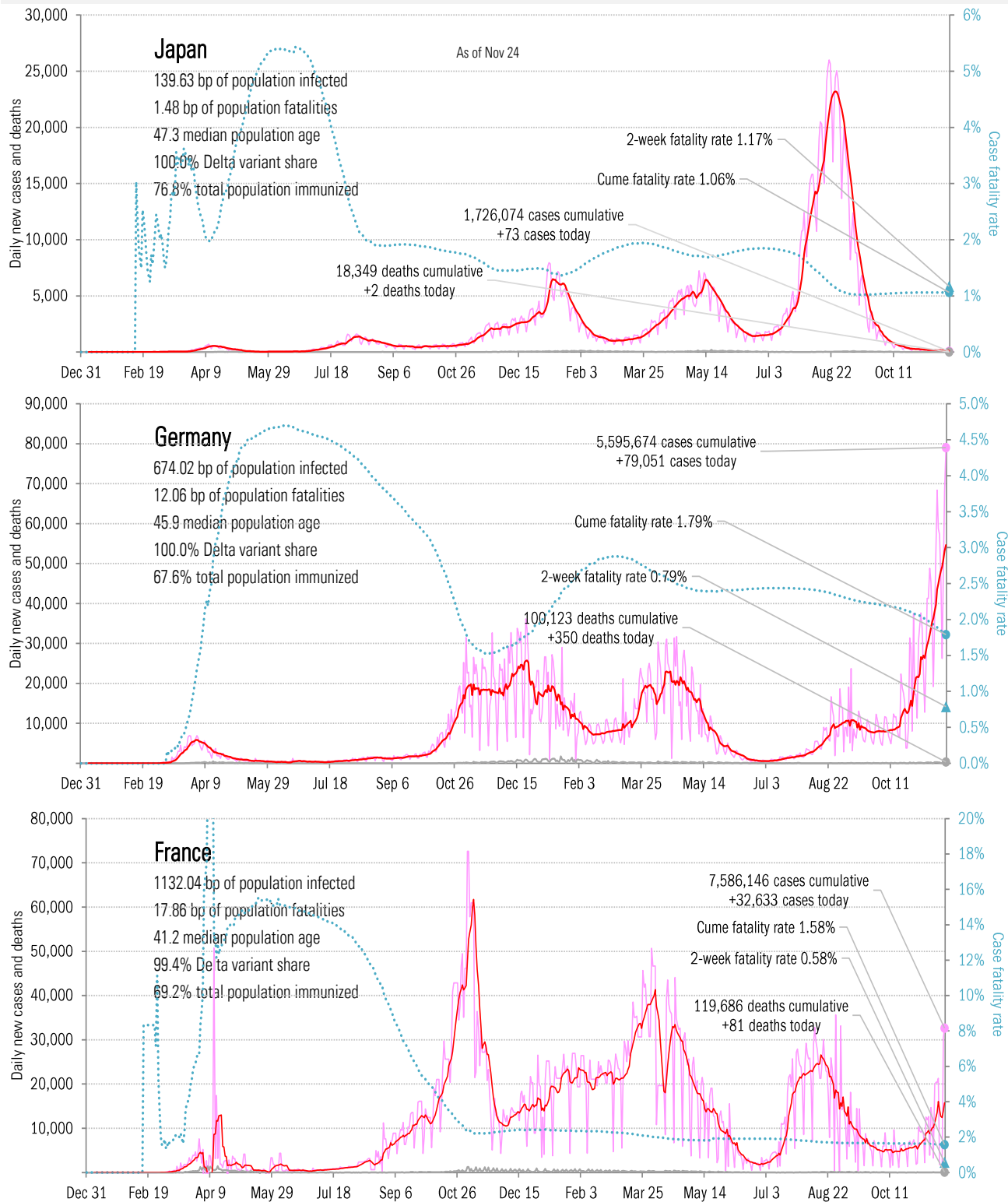
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

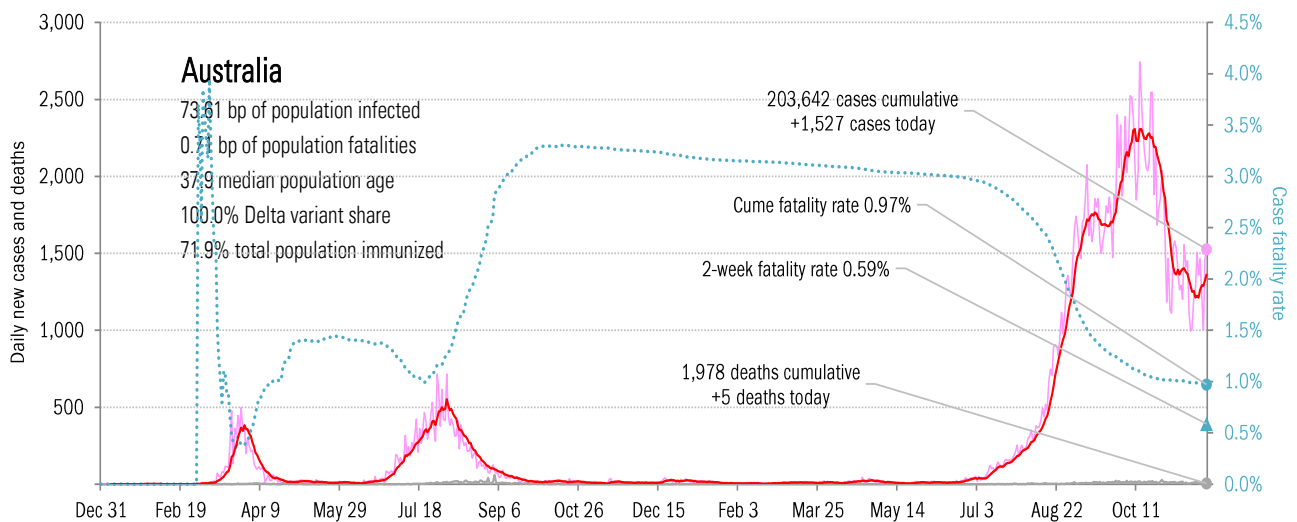
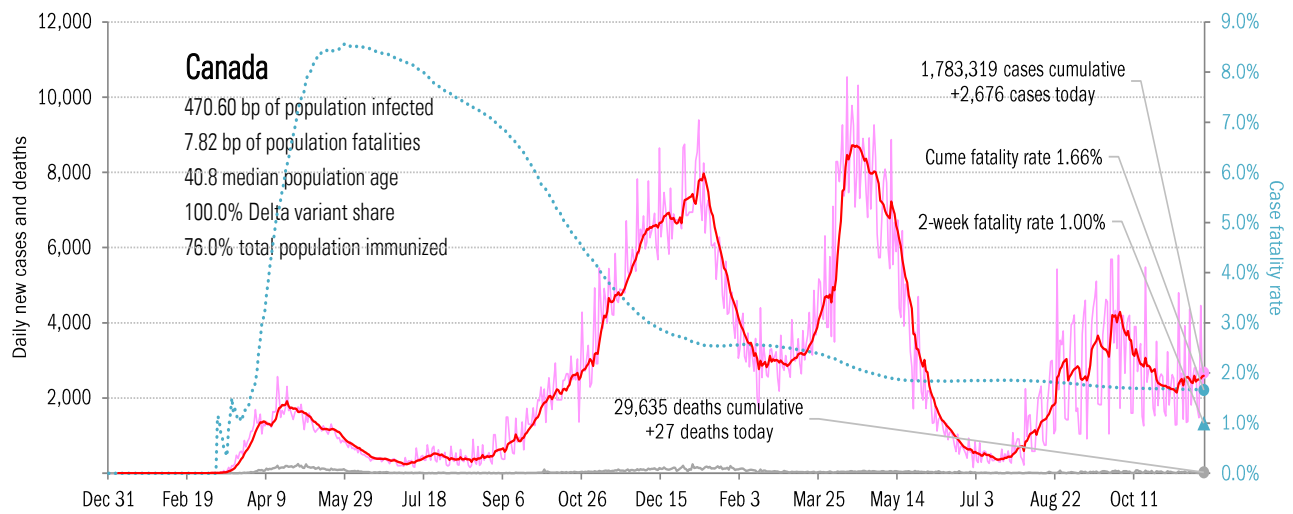
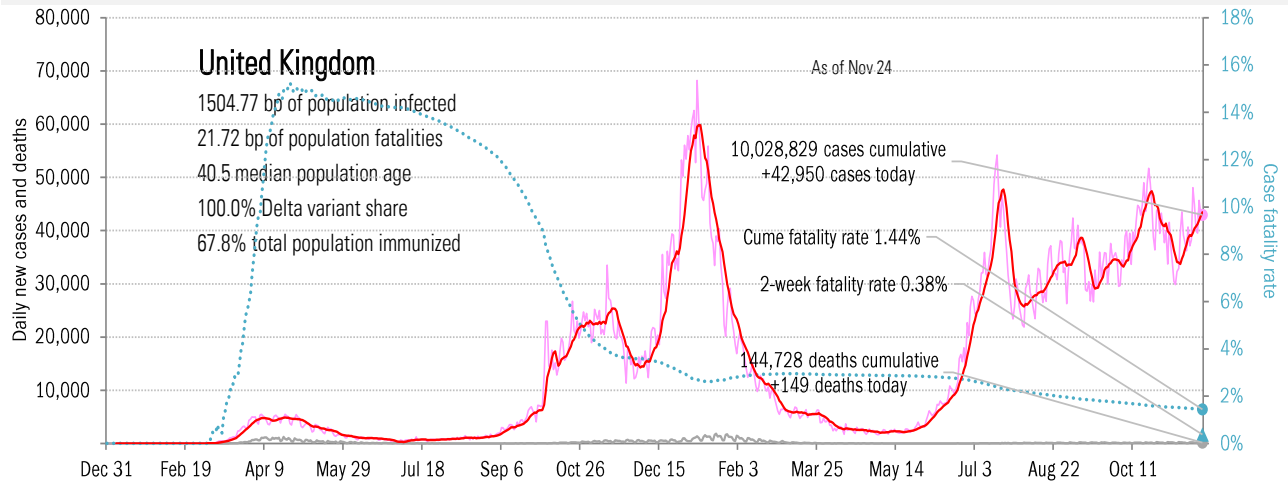
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

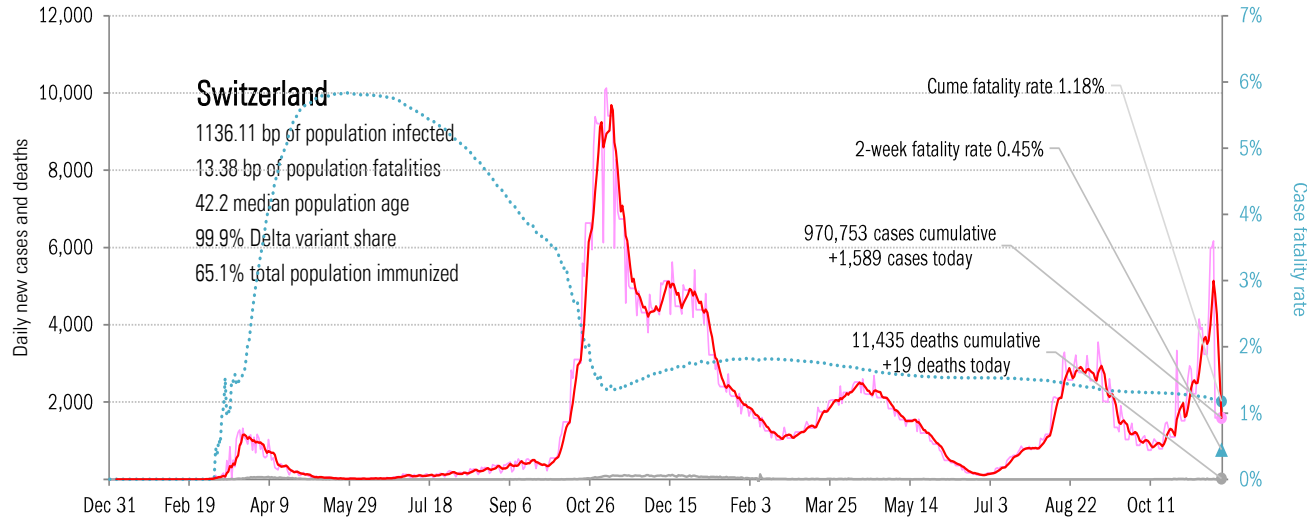
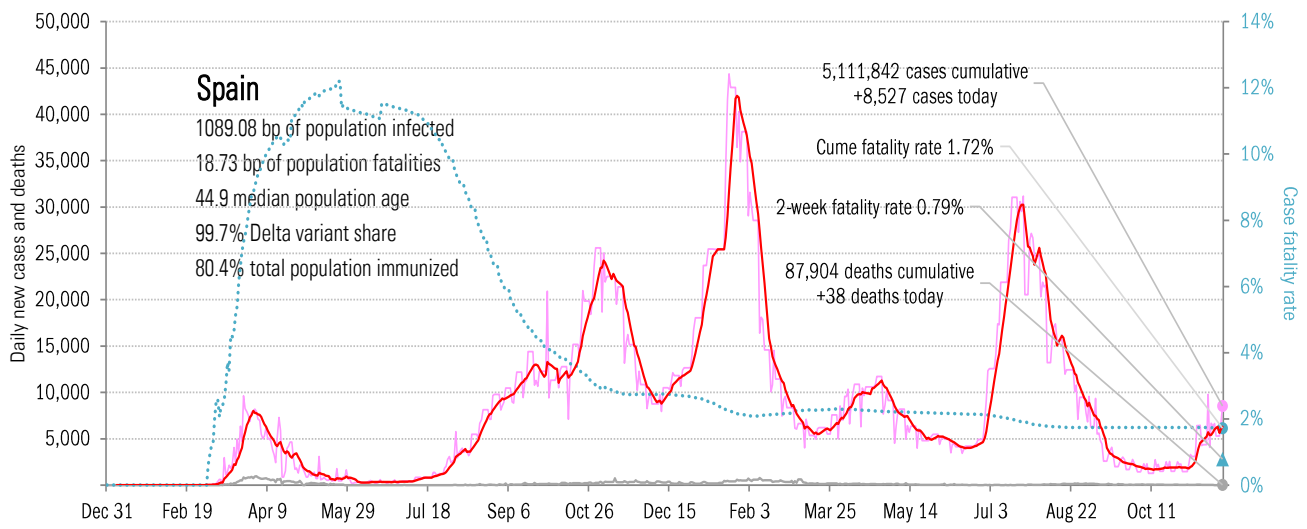
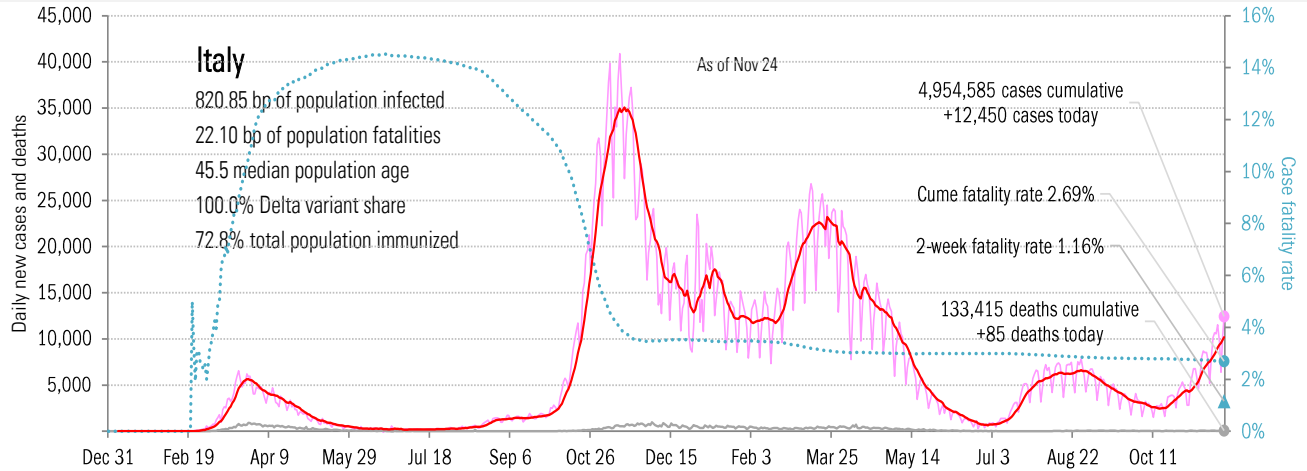
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

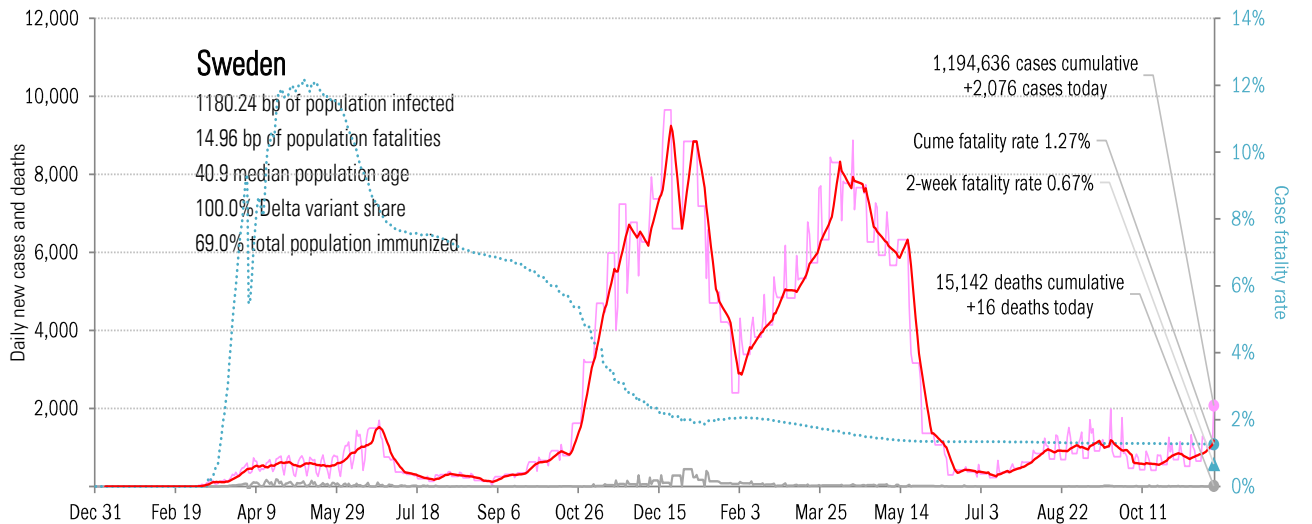
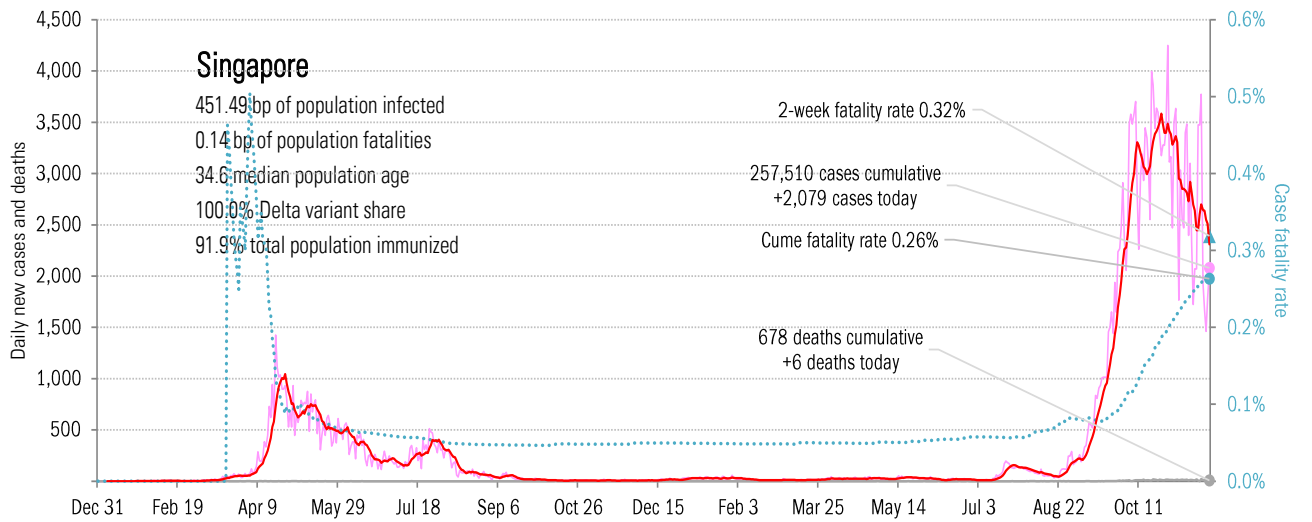
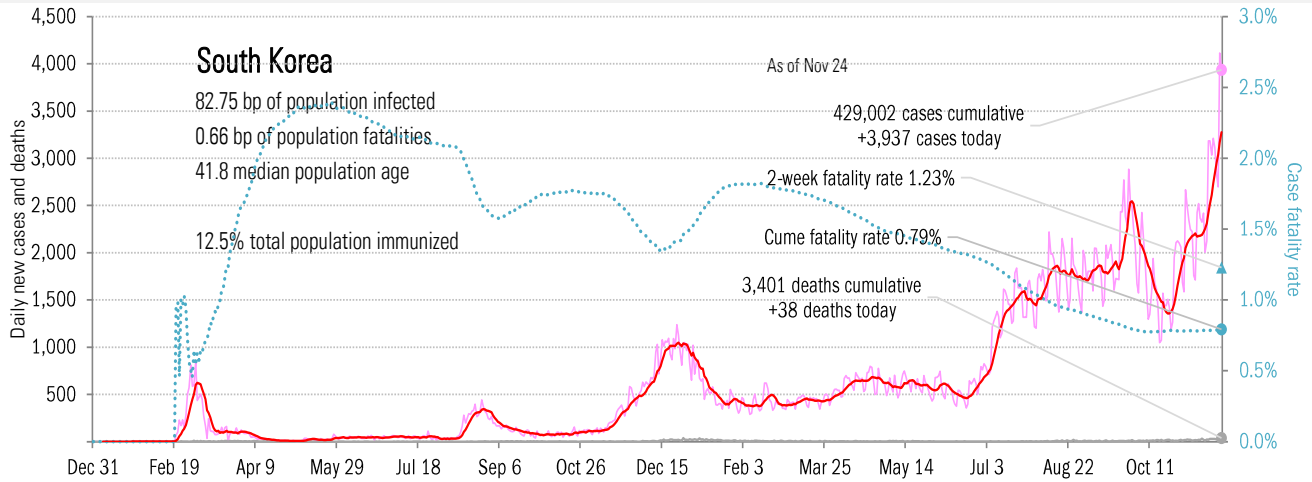
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

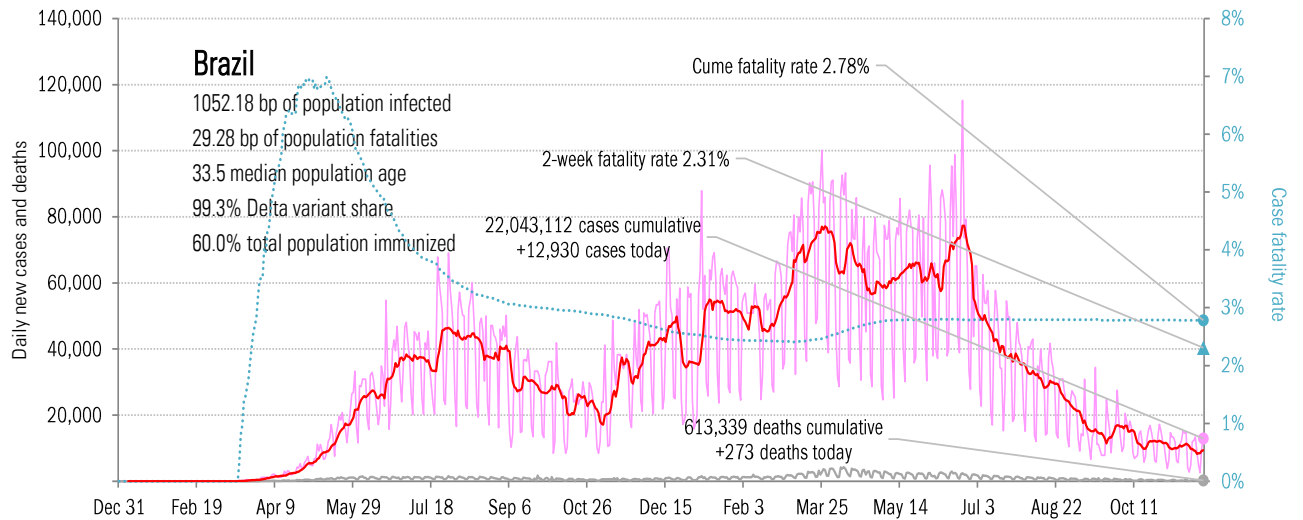
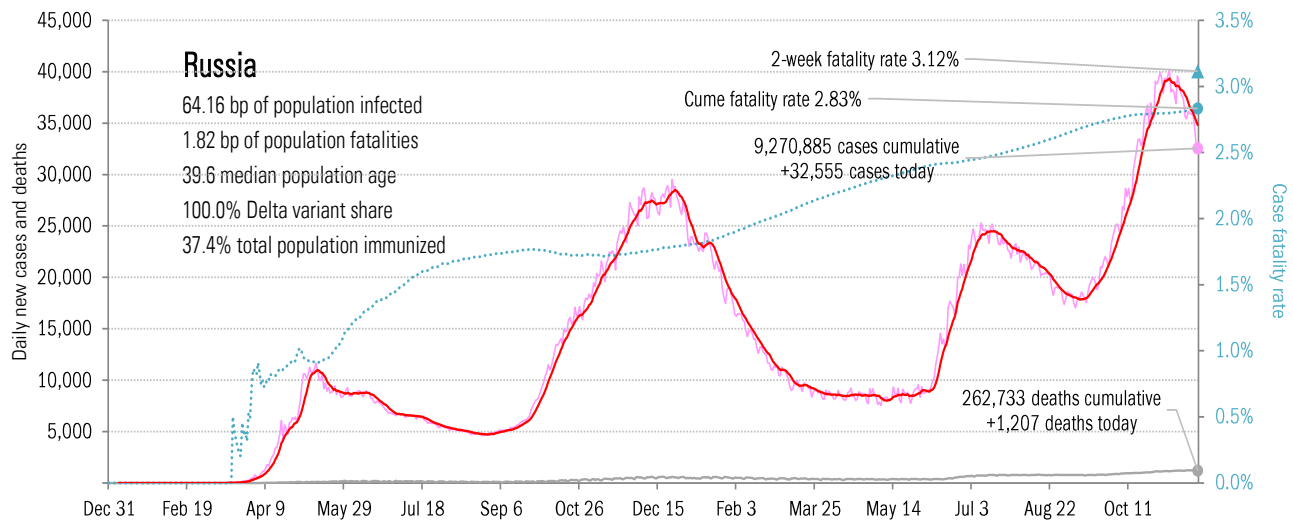
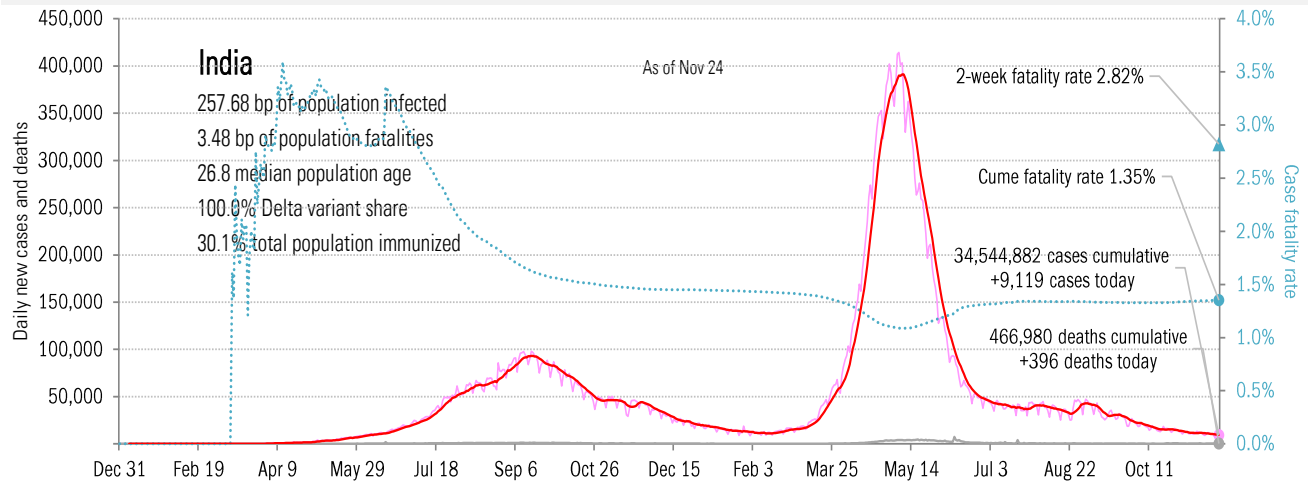
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

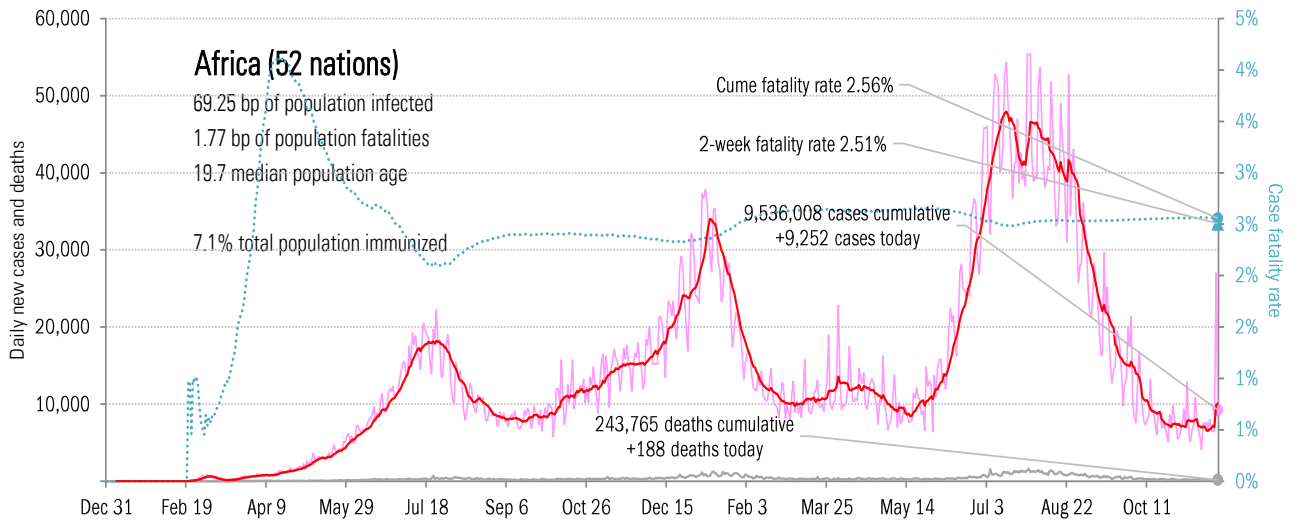
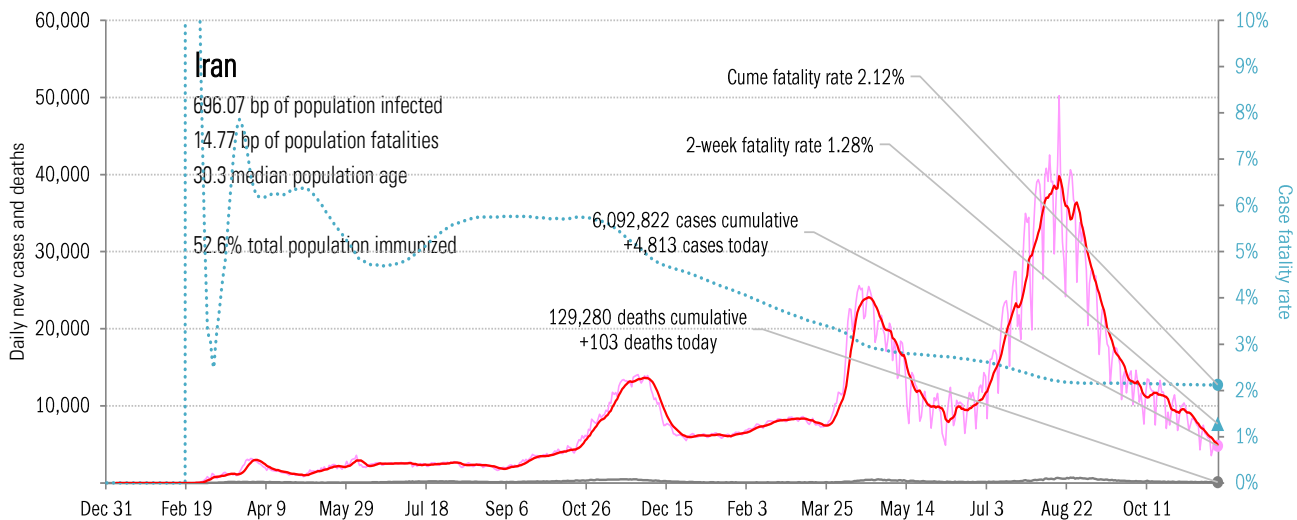
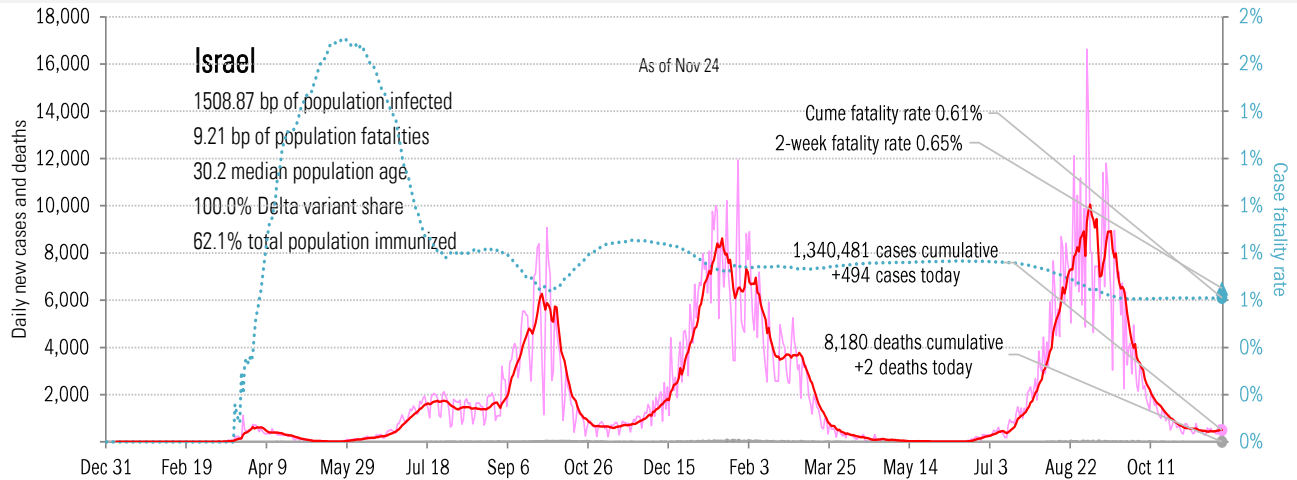
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

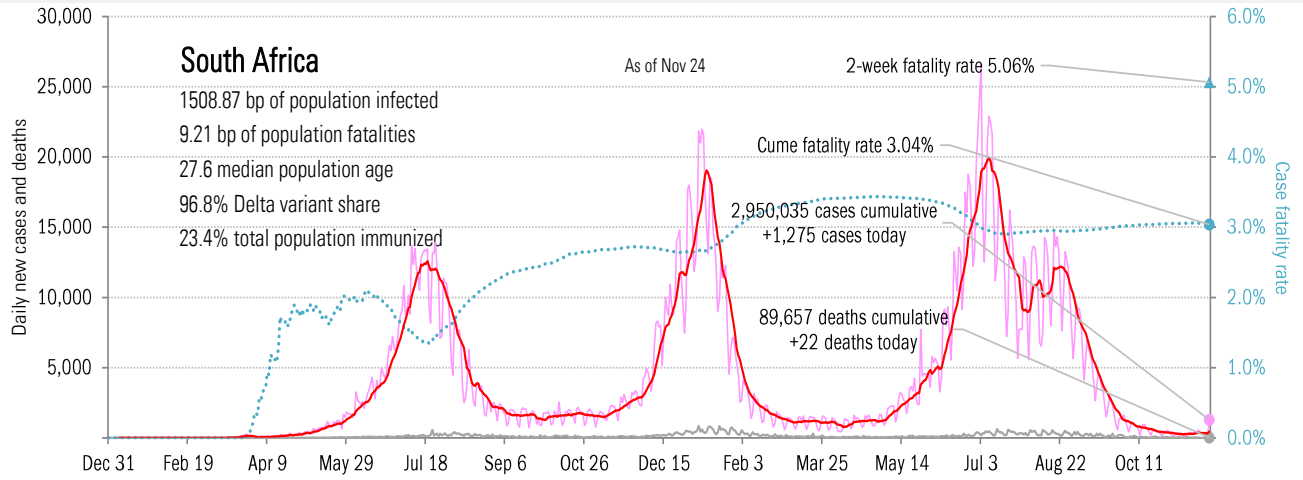
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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