

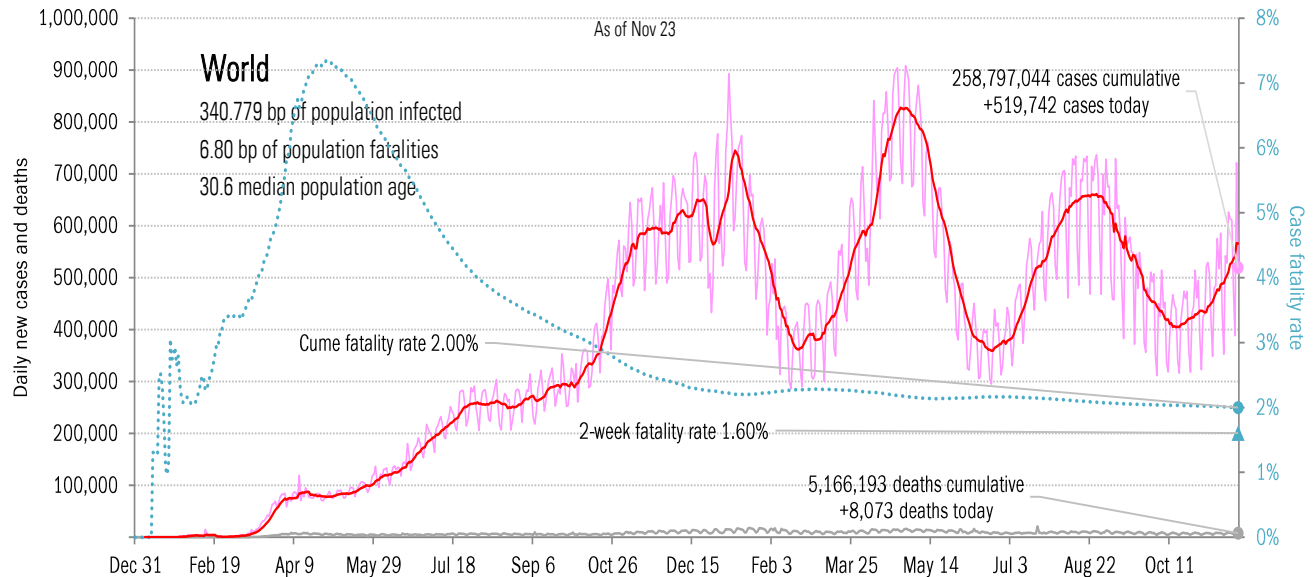
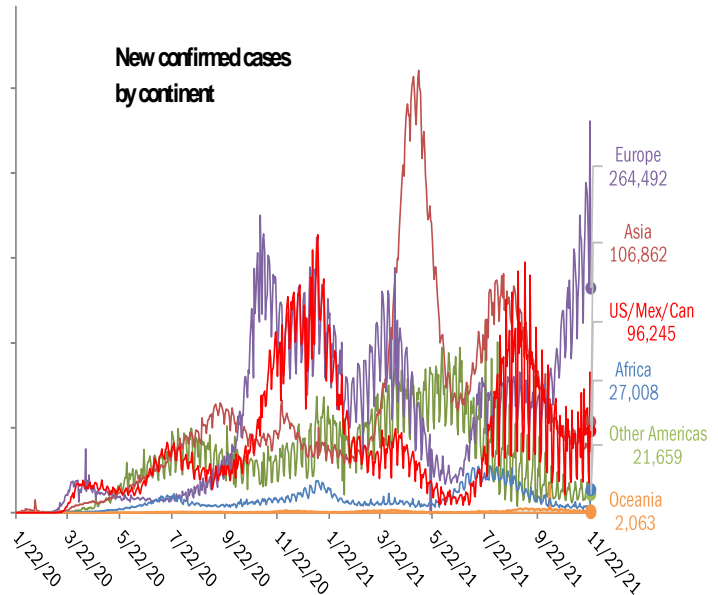
Data Insights: Covid-2019 Monitor

Wednesday, November 24, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+94,022	United States	+1,469
Germany	+68,049	Russia	+1,207
United Kingdom	+43,020	Ukraine	+756
Vietnam	+39,132	India	+437
Russia	+32,899	Poland	+398
Turkey	+28,170	Germany	+336
Netherlands	+23,042	Brazil	+284
Poland	+19,935	Romania	+273
South Africa	+18,586	Turkey	+208
Ukraine	+13,826	Philippines	+194
+380,681		+5,562	
World	+519,742	World	+8,073
Top ten	73%	Top ten	69%



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

For more information contact us:

Donald Luskin: 214 550 2121 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

Cases: 7-day average and daily Deaths: Daily

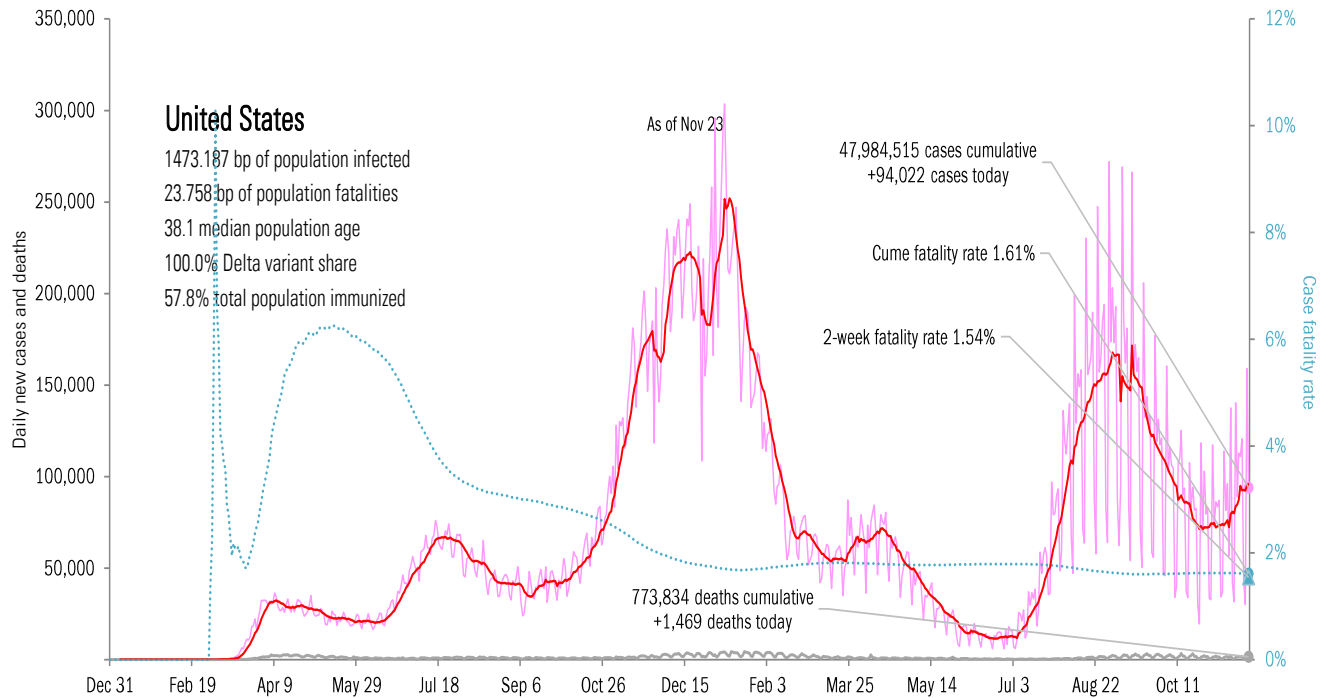
The ten worst US states

New cases			New Deaths			New in hospital			Cure cases			Cure deaths			Cure in hospital			Hospital use		ICU use	
MN	+11,451	CH	+127	AL	+40	CA	5,054,053	CA	73,939	TX	381,734	RI	88%	NM	91%						
CH	+6,143	AZ	+120	VA	+37	TX	4,316,239	TX	73,518	FL	322,407	PA	84%	RI	90%						
NY	+5,564	TX	+94	CH	+33	FL	3,725,238	FL	61,211	CA	318,334	MA	84%	KY	88%						
PA	+5,186	CA	+83	PA	+31	NY	2,685,067	NY	57,250	NY	169,960	MI	84%	PA	85%						
TX	+5,101	MO	+73	NY	+26	IL	1,779,842	PA	33,003	GA	162,241	WA	83%	CK	84%						
WI	+5,074	PA	+72	GA	+24	PA	1,696,959	GA	30,298	CH	131,712	MN	80%	MI	83%						
IL	+4,589	GA	+62	NV	+24	GA	1,658,363	IL	28,727	PA	123,802	NY	80%	AK	83%						
CA	+4,585	CO	+61	MI	+22	CH	1,653,380	NJ	28,295	KY	113,515	MD	79%	MN	83%						
IA	+3,270	TN	+55	MO	+16	NC	1,521,760	CH	26,190	IL	108,802	GA	78%	DE	83%						
IN	+3,133	IN	+53	AR	+11	MI	1,427,191	MI	24,928	MI	100,081	NM	78%	NV	82%						
+54,096			+800			+264			25,518,092			437,359			1,932,588						
All states +94,022			+1,469			-351			All states 47,984,515			773,834			3,469,766			All states 70% 67%			
Top ten 58%			54%			-75%			Top ten 53%			57%			56%			Median 74% 77%			

Some states not reporting

Five most improved US states

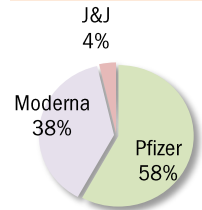
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-18,772	MI	-87	CO	-96	ND	+20 bp
CA	-6,950	OR	-54	CA	-95	WA	+20 bp
IL	-6,798	KY	-48	KY	-83	AK	+10 bp
IN	-4,789	FL	-44	FL	-66	FL	+10 bp
CO	-4,424	CA	-42	MI	-64	IA	+10 bp



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	465,133,900	+0.052 million	US	57.8%	68.6%
Boosters	37,267,434	+0.583 million	UK	67.7%	74.5%
	One dose	% Pop	Immune	% pop	New immune today
Total population	236,473,894	71%	201,037,051	60%	+0.425 million
Age 12 to 17	14,554,854	61%	12,191,604	51%	+0.025 million
Age 18 to 64	161,154,662	79%	139,127,610	68%	+0.222 million
Age 65 and over	56,513,642	100%	48,771,314	89%	+0.179 million



AK
62.2%
54.0%

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

Best
Middle
Worst

Every American >18 immunized in **-66 days** by Sep 17, 2021
 72.8% of population >18 immunized
 17.1% previously tested positive
89.9% vs 60% adult herd immunity

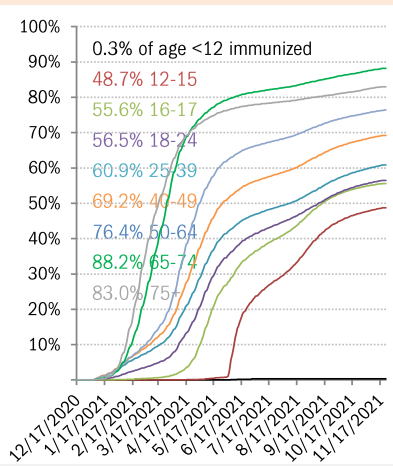
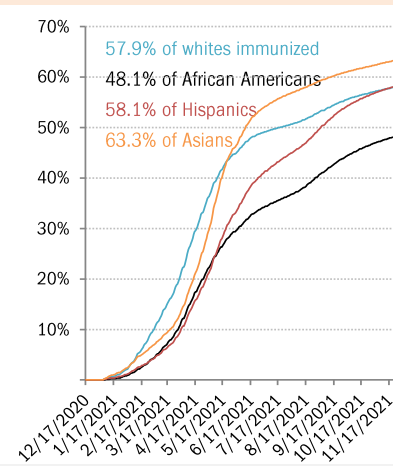
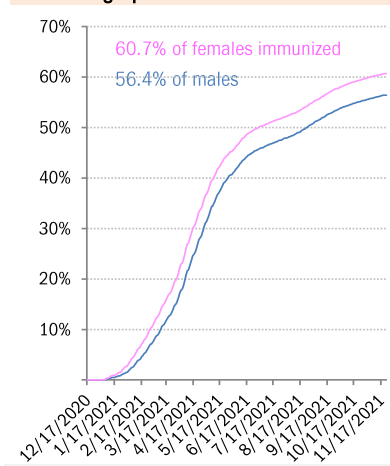
France	69.2%	76.6%
Spain	80.3%	81.8%
Germany	67.5%	70.1%
Italy	72.6%	77.7%
Australia	71.6%	77.0%
Israel	62.1%	67.6%
Canada	75.9%	79.3%
Japan	76.7%	79.0%
Africa	7.0%	10.4%
India	29.6%	55.4%
Brazil	60.0%	75.9%
China	74.5%	84.8%

Global data differs due to sources, timing

As of Nov 23

WI	65.3%	ME	81.1%
	59.3%		72.0%
WA	72.2%	ID	50.4%
	64.8%		45.0%
MT	59.3%	ND	57.4%
	51.7%		48.6%
MN	68.4%	IL	67.1%
	62.2%		61.2%
MI	60.6%	NY	77.3%
	54.4%		68.1%
OR	70.9%	NV	65.8%
	63.8%		54.2%
WY	53.2%	SD	65.8%
	45.3%		54.1%
IA	62.1%	IN	55.4%
	56.5%		50.5%
OH	57.9%	PA	80.7%
	52.8%		58.0%
CA	78.0%	UT	63.6%
	62.8%		55.2%
CO	70.7%	NE	63.6%
	62.8%		57.2%
MO	59.2%	KY	59.8%
	50.7%		51.9%
WV	53.8%	VA	74.8%
	41.5%		64.6%
AZ	63.7%	NM	75.8%
	54.4%		63.3%
KS	65.5%	AR	60.0%
	54.3%		49.0%
TN	56.4%	NC	68.8%
	49.3%		53.8%
OK	62.1%	LA	55.2%
	51.3%		48.6%
MS	53.6%	AL	56.1%
	46.8%		45.8%
GA	58.6%	TX	63.6%
	49.3%		54.4%
HI	81.5%	FL	71.2%
	60.7%		61.0%
PR	84.2%		73.9%

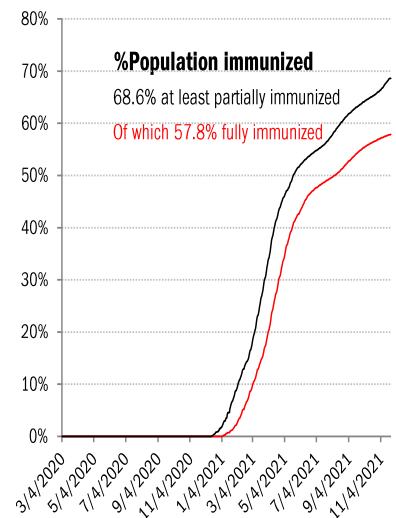
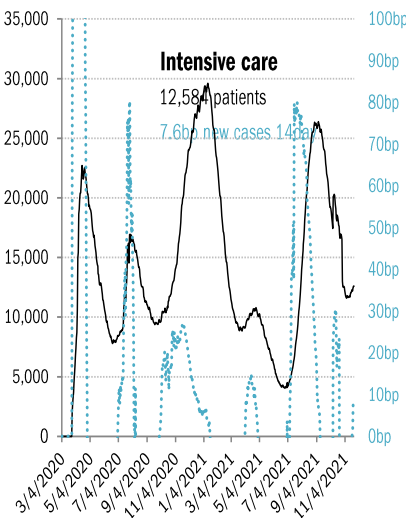
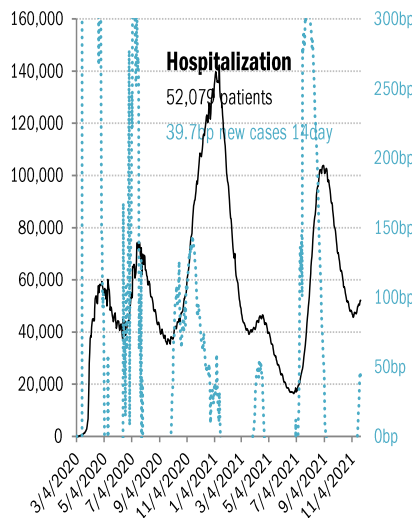
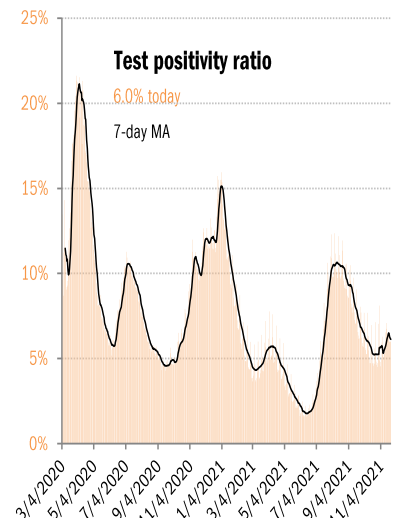
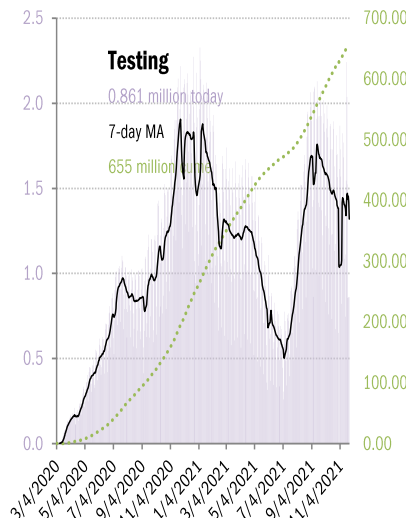
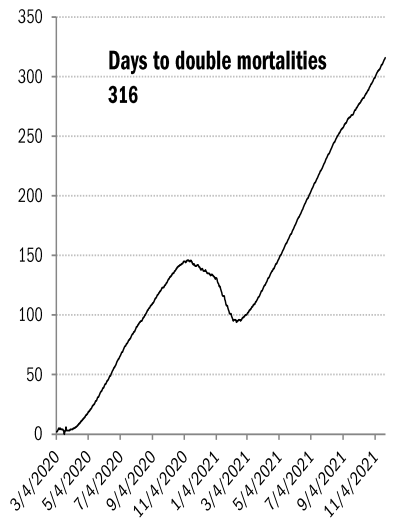
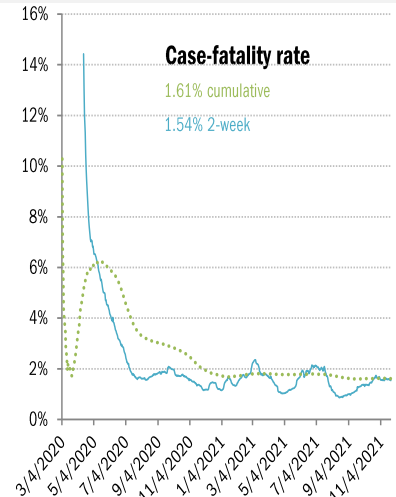
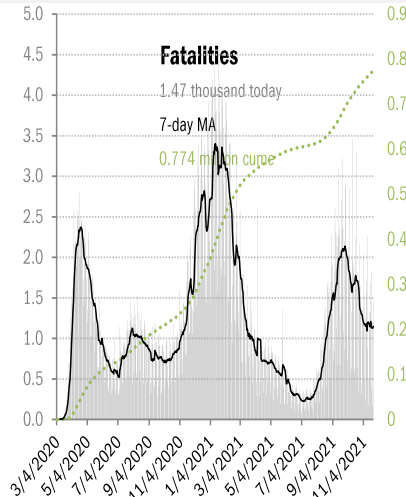
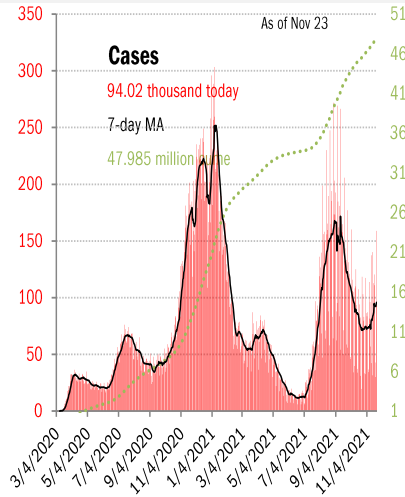
The demographics of US vaccination



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

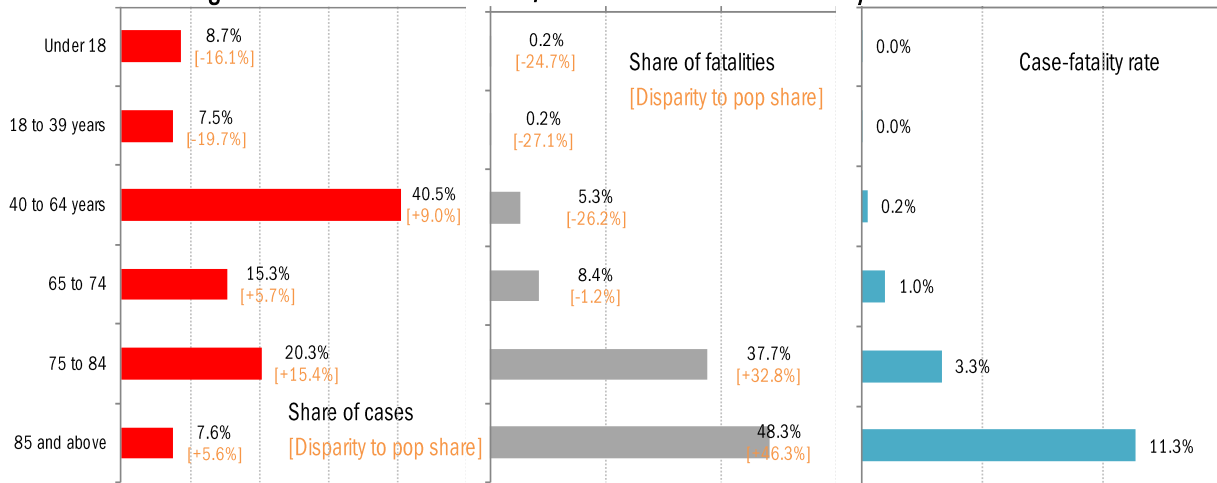
US deep-dive

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

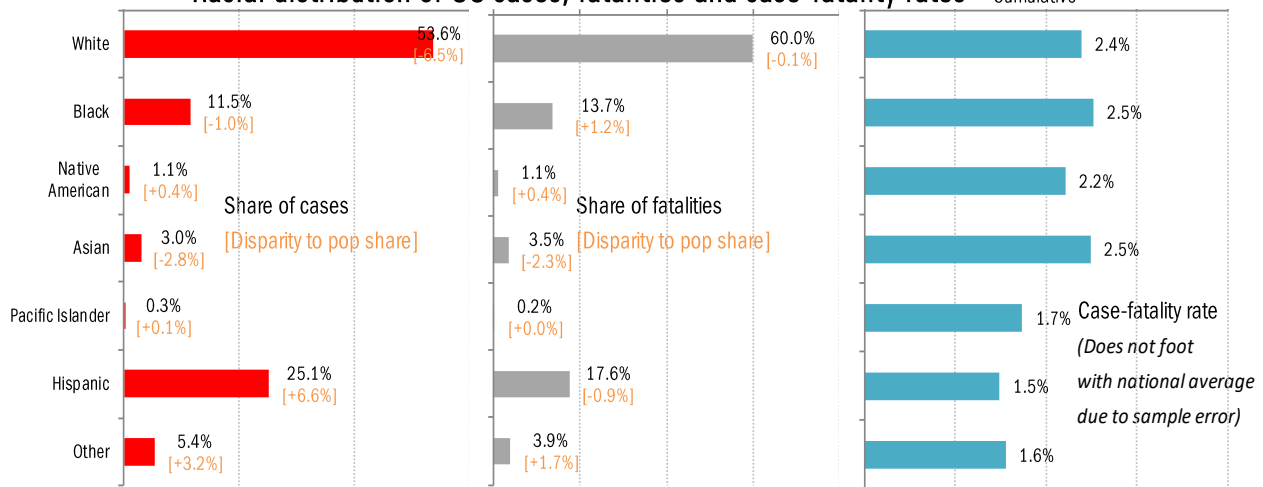


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

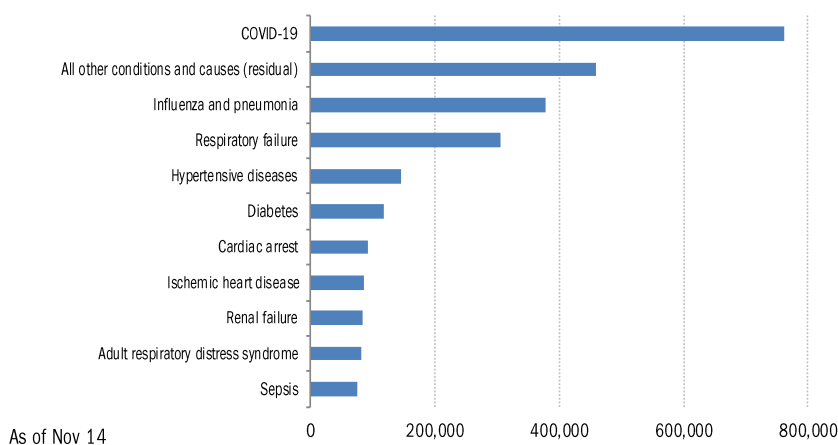


Racial distribution of US cases, fatalities and case-fatality rates



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

[Could Covid Lead to Progress?](#)

Steven Johnson
New York Times Magazine
November 22, 2021

[Why It's Easy to Misinterpret Numbers of Deaths Among the Vaccinated](#)

Lori Robertson
FactCheck.org
November 1, 2021

[Fauci Finally Admits Vaccines Don't Protect Against Serious Covid or Death](#)

Vasko Kohlmayer
American Thinker
November 19, 2021

[Contending With the Pandemic, Wealthy Nations Wage Global Battle for Migrants](#)

Damien Cave and Christopher F. Schuetze
New York Times
November 23, 2021

[A Pandemic Pivot Point: The Counterintuitive Dynamics of Covid-19](#)

Bret Swanson
Entropy Economics
November 23, 2021

[Atlas: I Watched The Nation's 'Top Scientists' Lie About COVID And Get Away With It](#)

Scott Atlas
The Federalist
November 23, 2021

[Lose the Mask. Eat the Turkey. And Other Sane Advice For This Thanksgiving.](#)

Bari Weiss
Common Sense
November 23, 2021

[Impeachment Investigation Report to Judiciary Committee Chair Charles Lavine and the New York State Assembly Judiciary Committee](#)

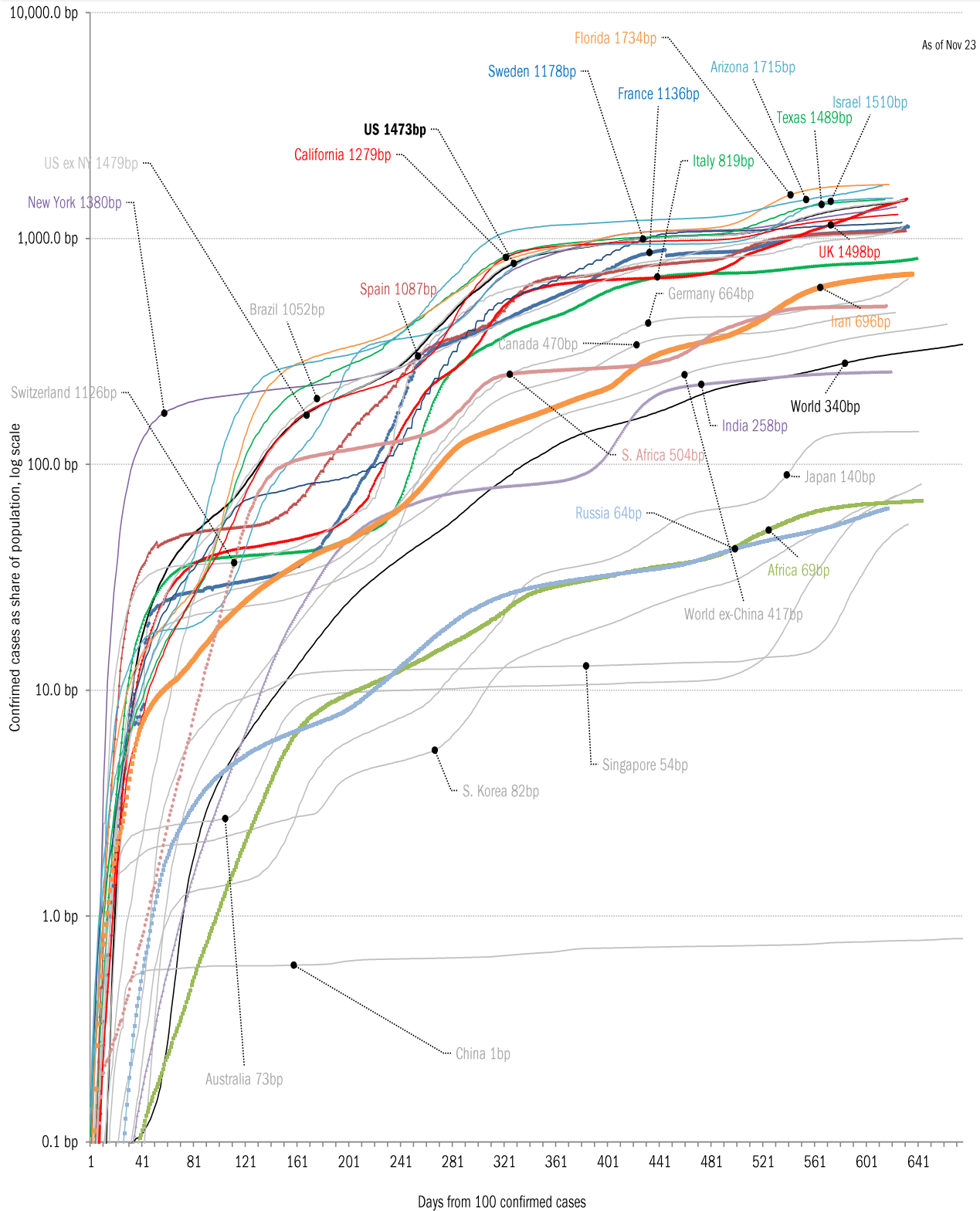
Davis Polk & Wardwell LLP
New York State Assembly
November 22, 2021

Meme of the day



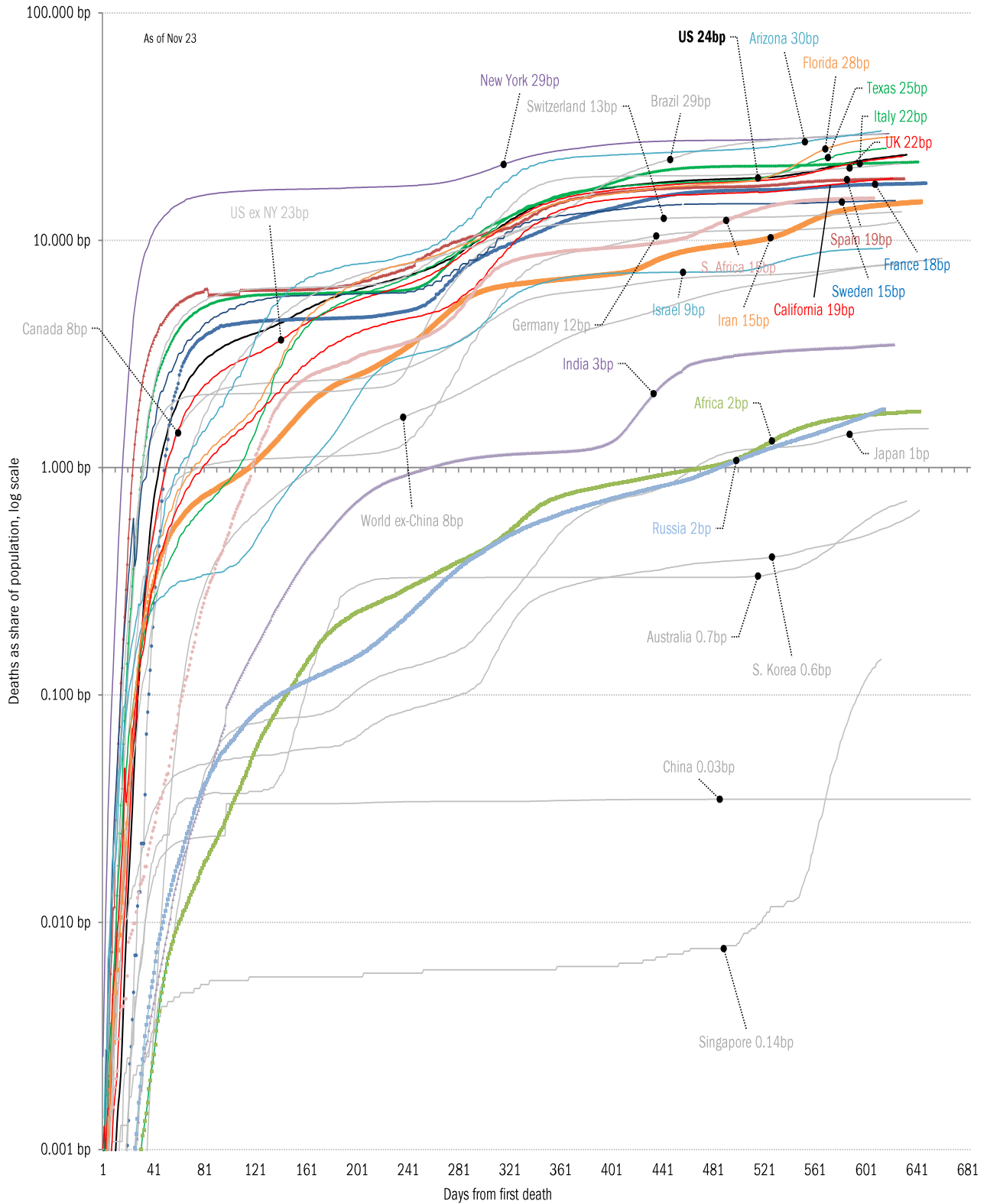
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

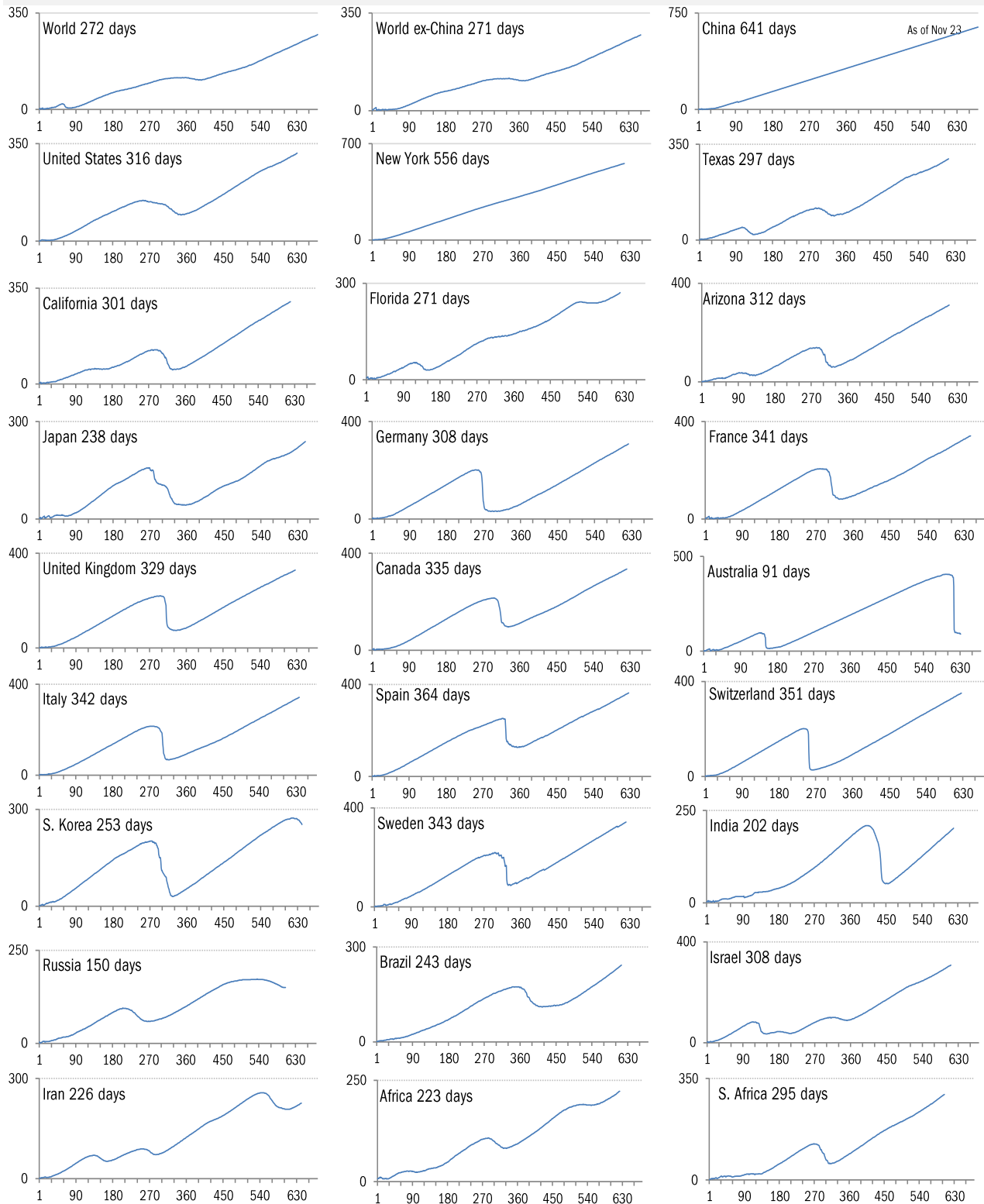


Source: [Johns Hopkins](#), TrendMacro calculations

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

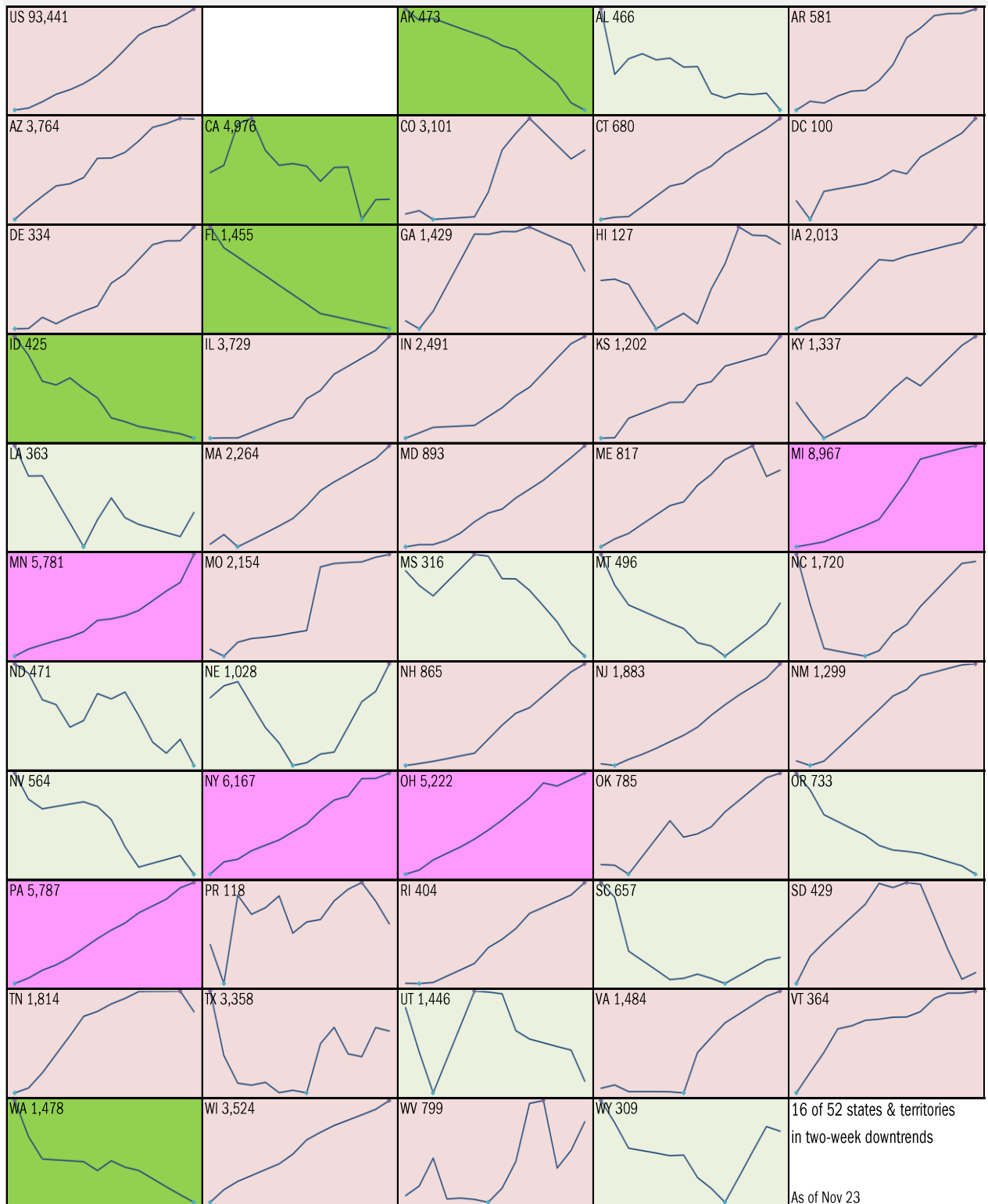
Vertical: days to double deaths Horizontal: days from first death

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

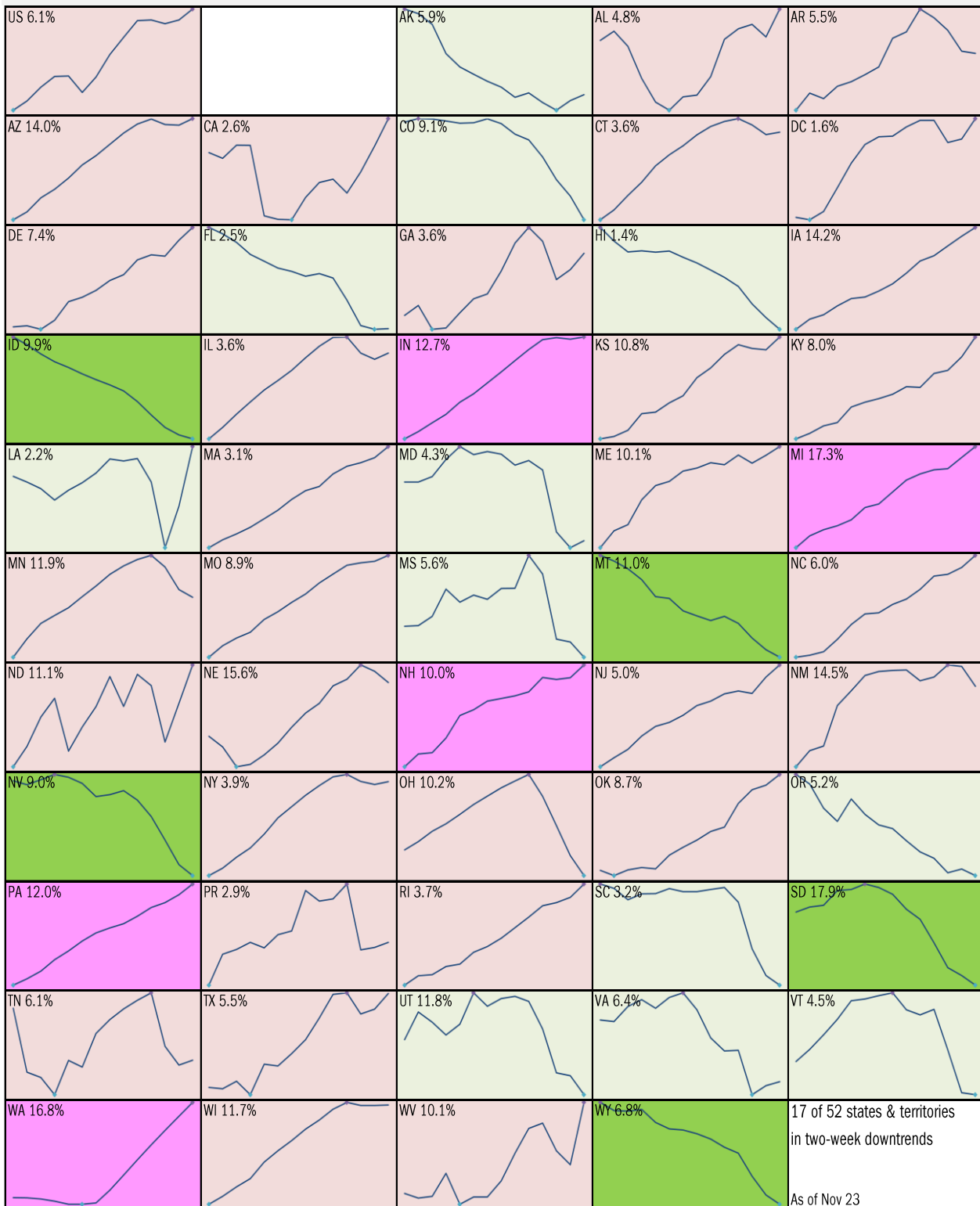


Source: [Johns Hopkins](#), TrendMacro calculations

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

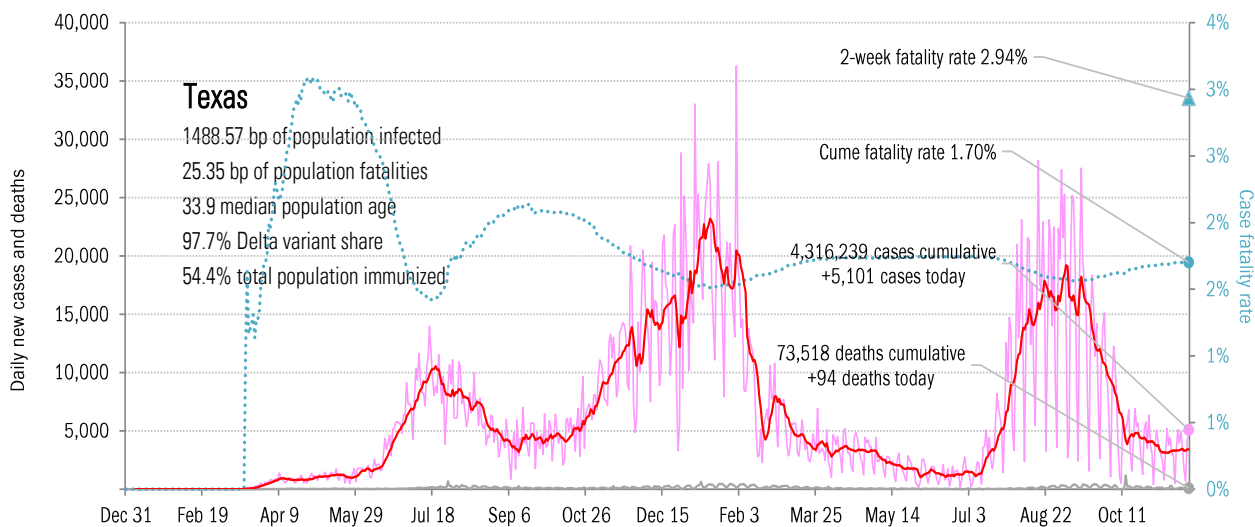
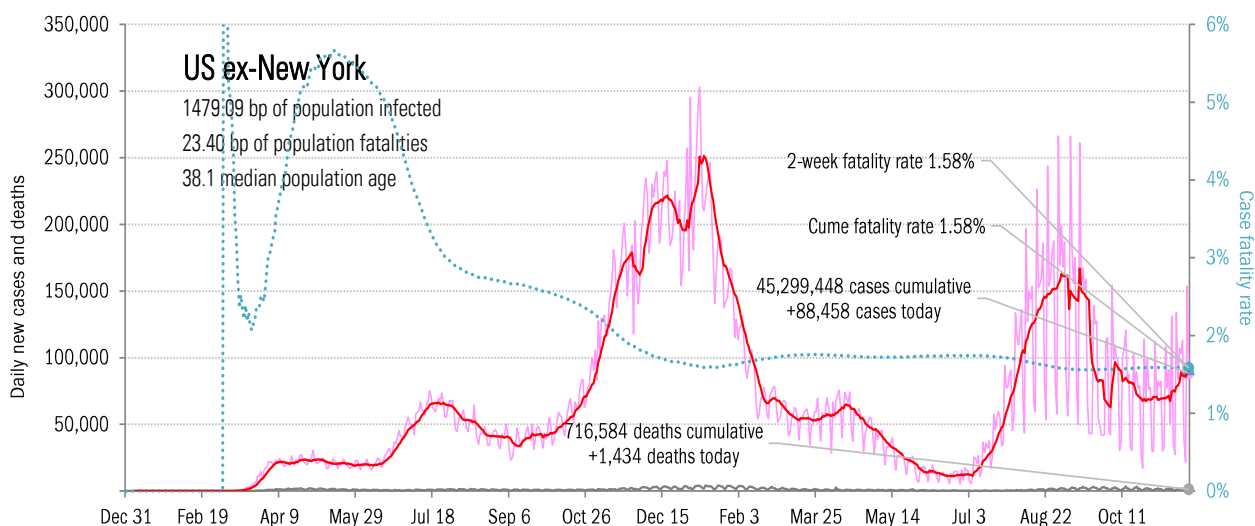
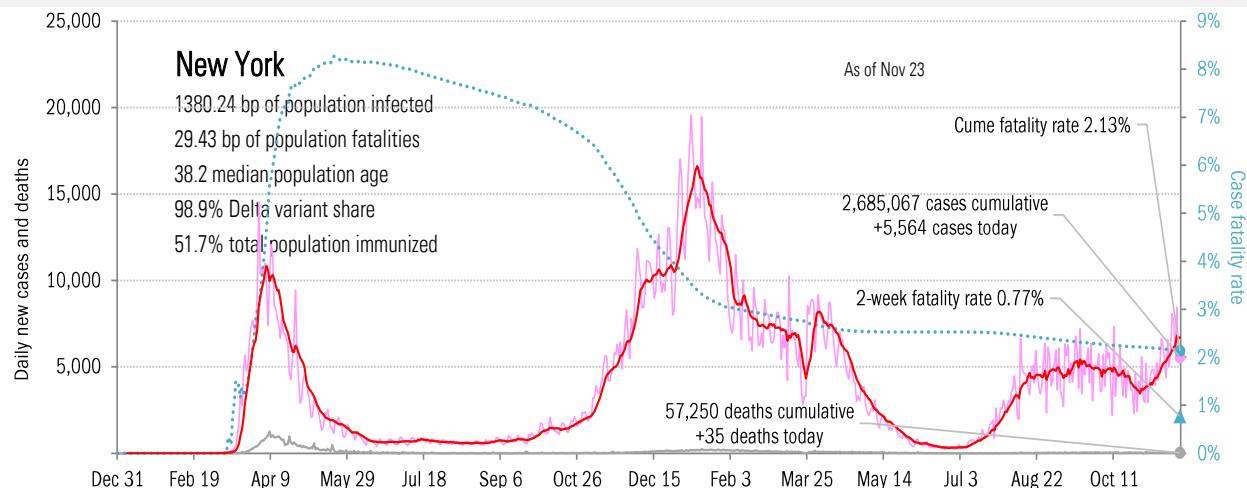
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

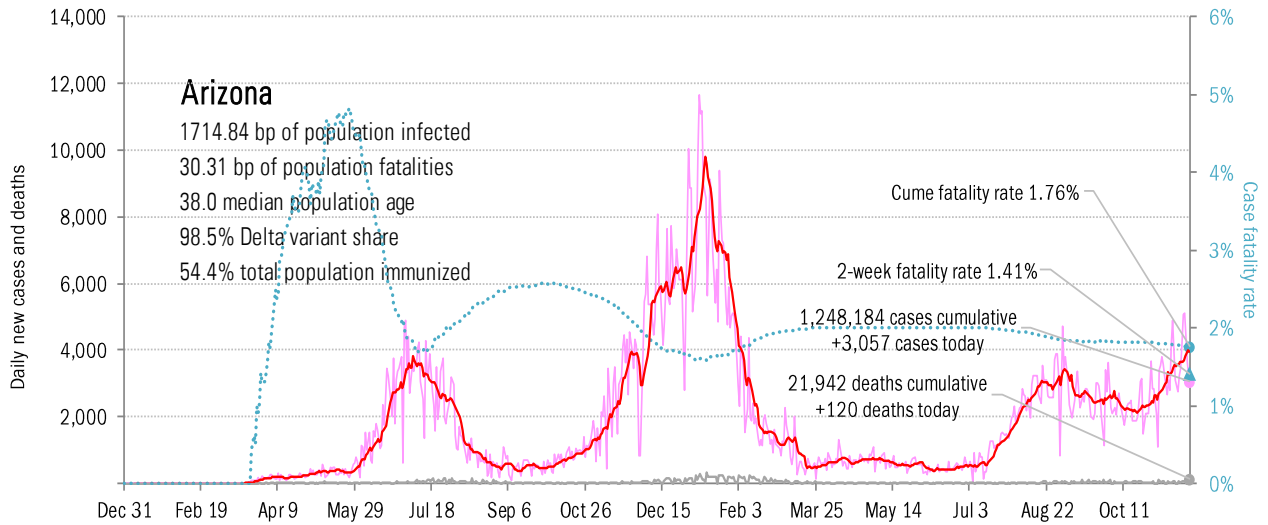
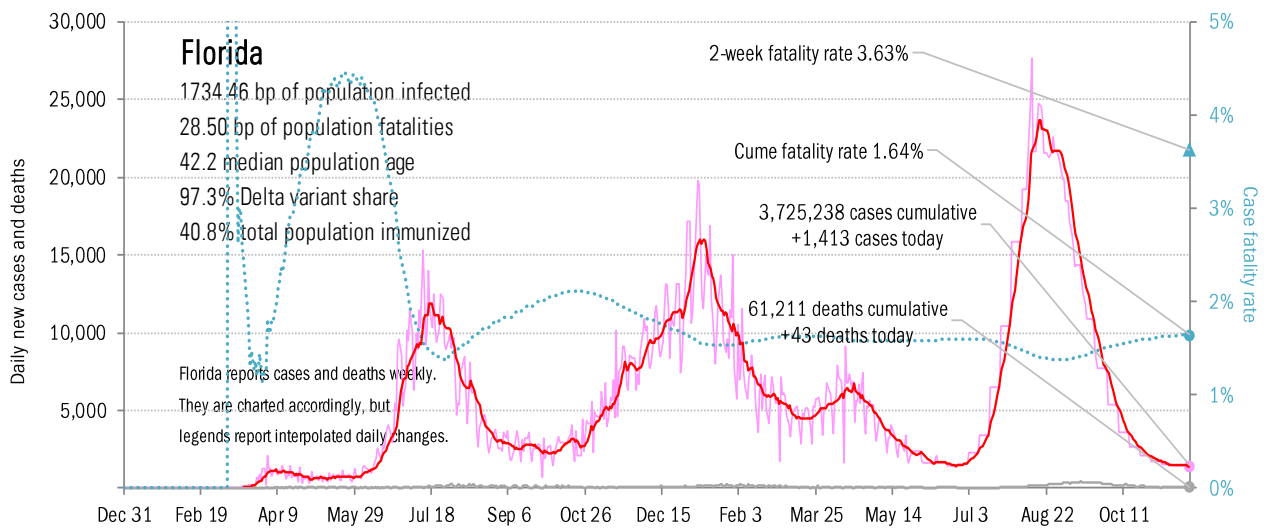
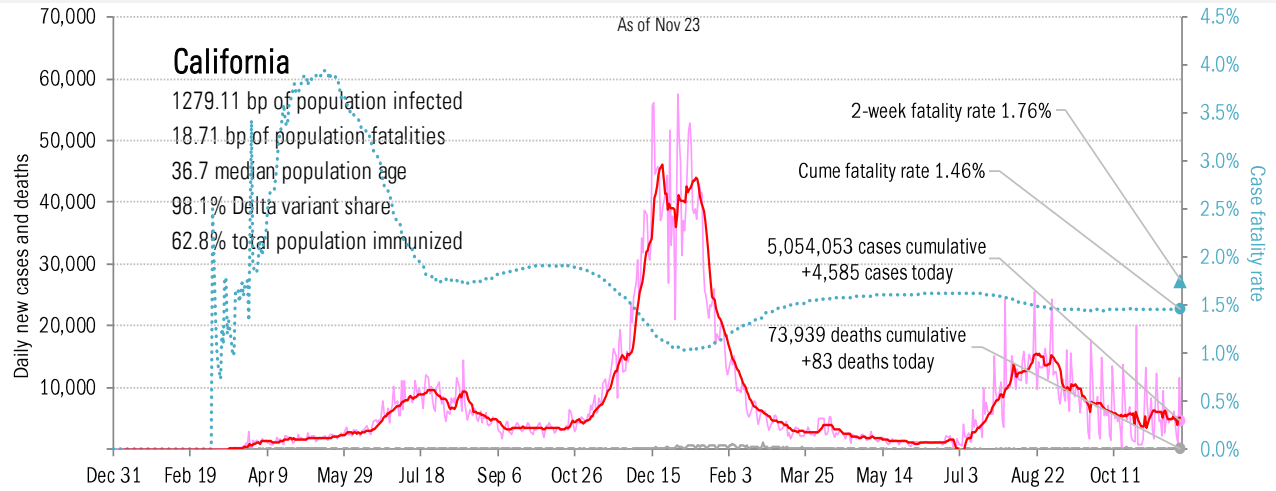
Cases: 7-day average and daily Deaths: Daily



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

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

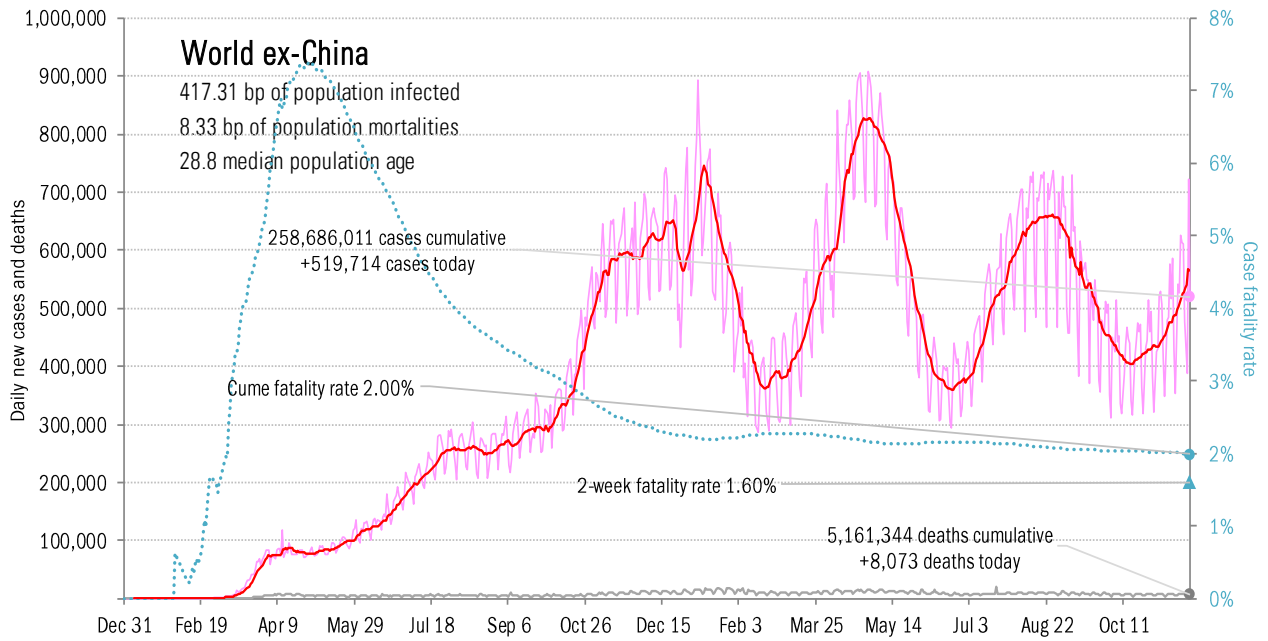
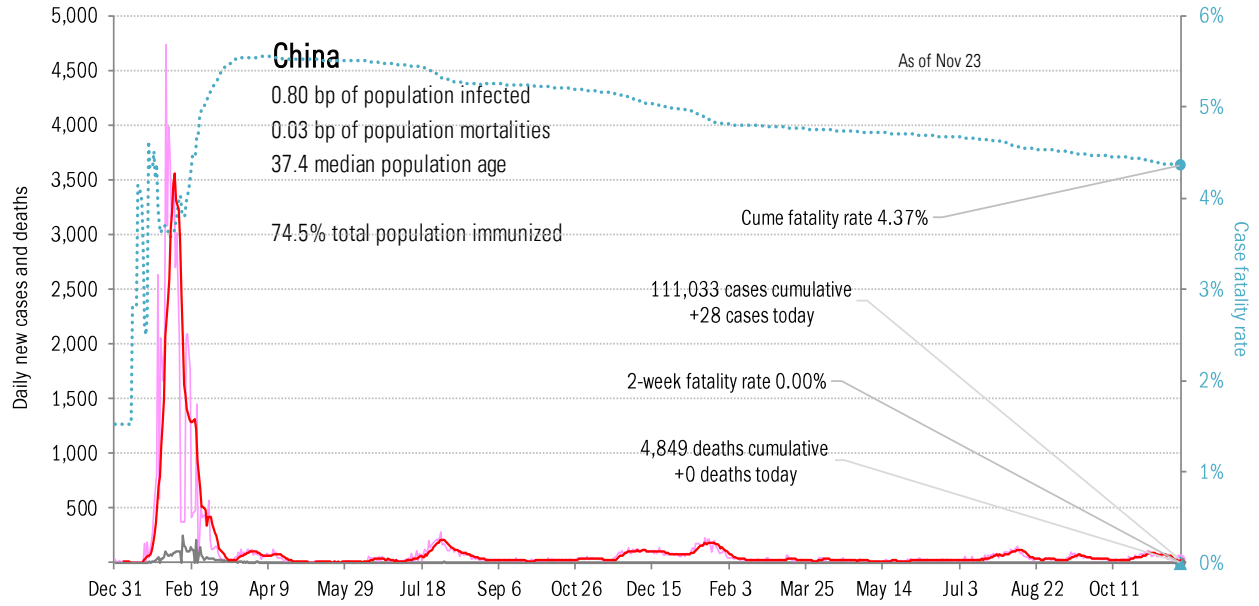
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

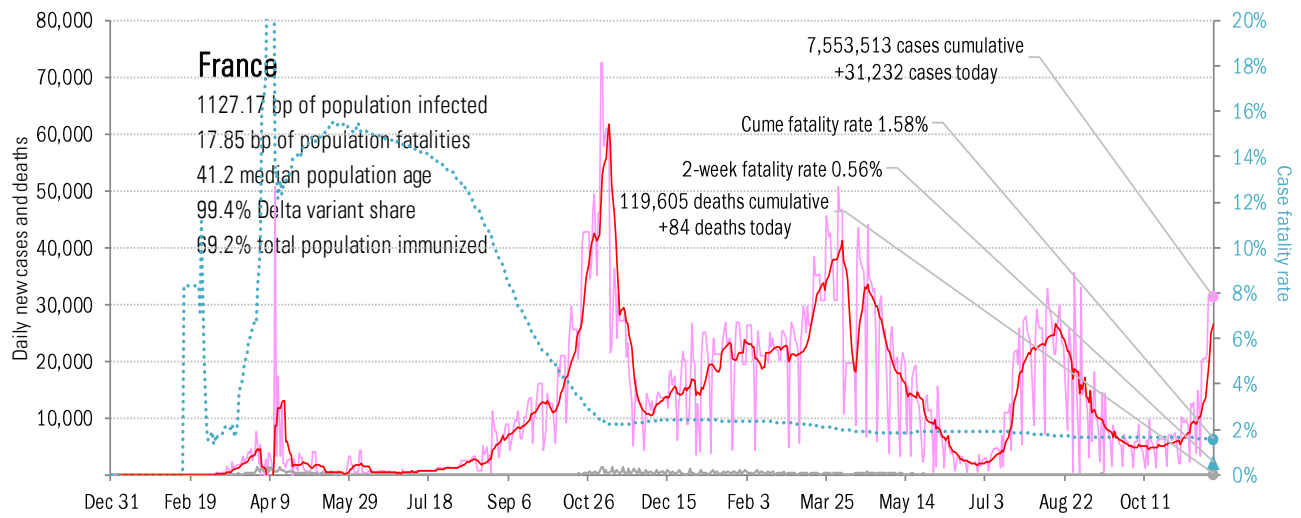
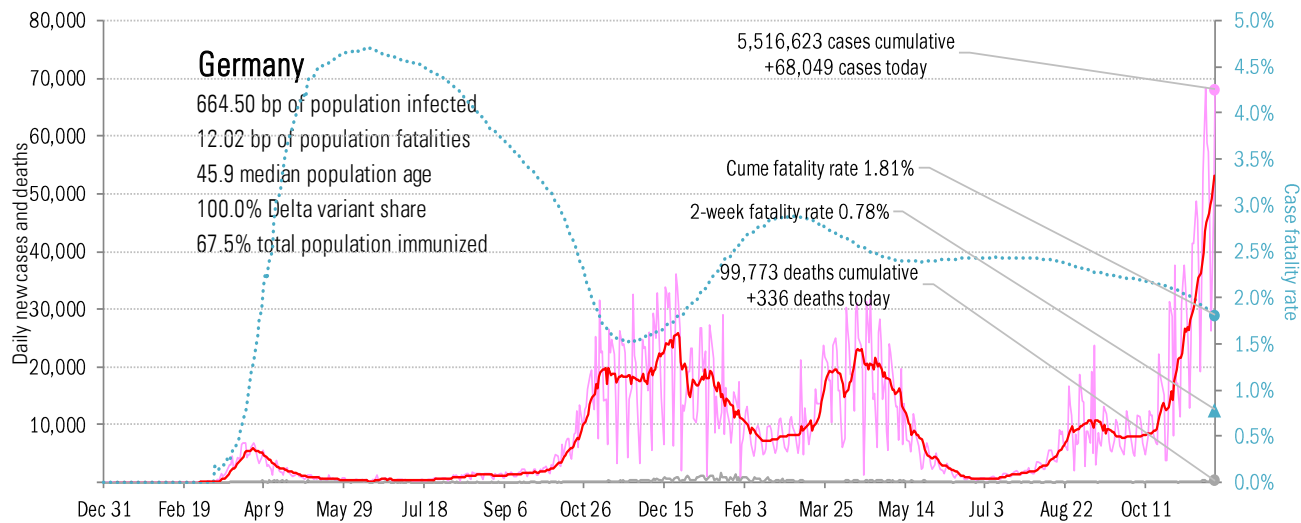
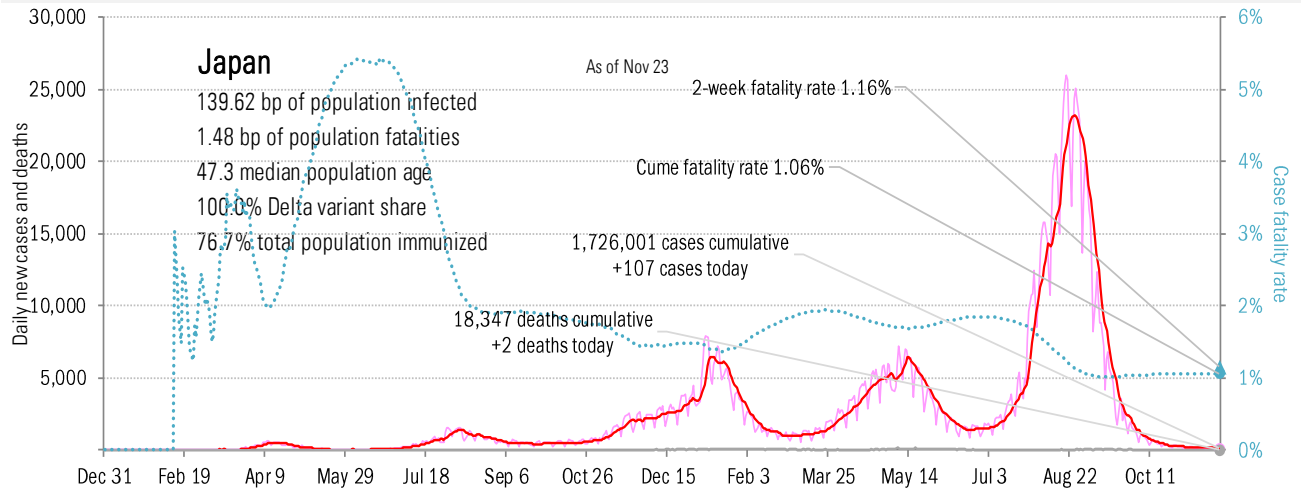
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

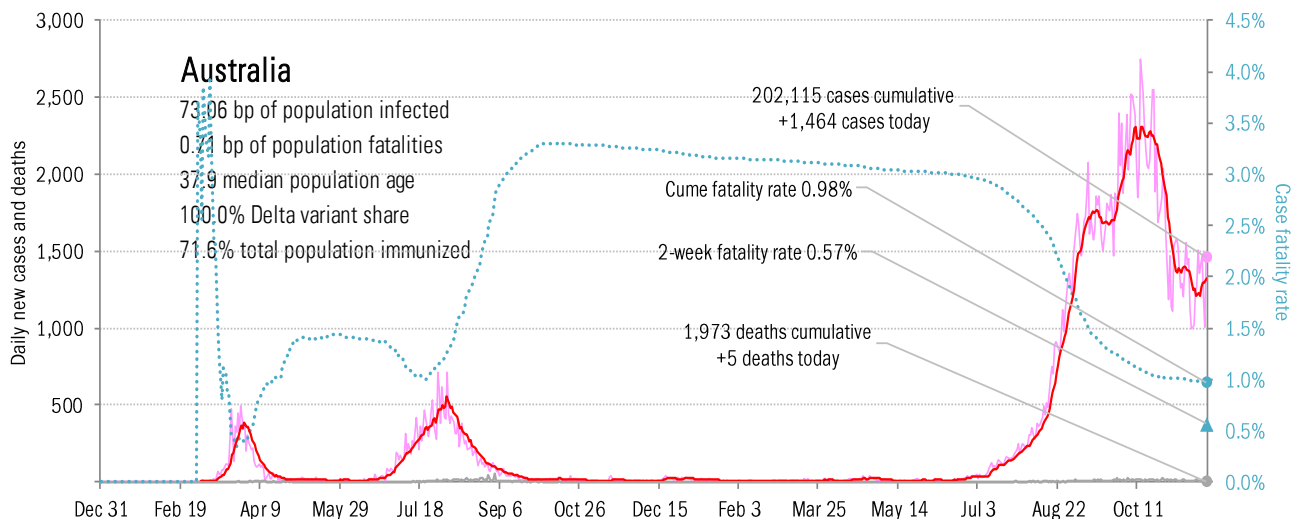
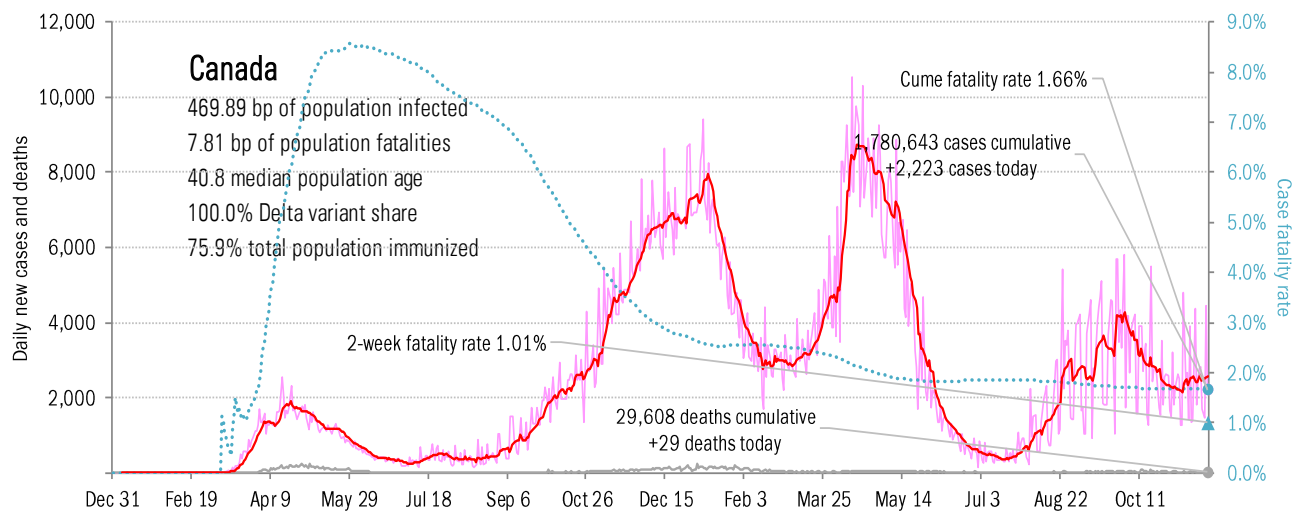
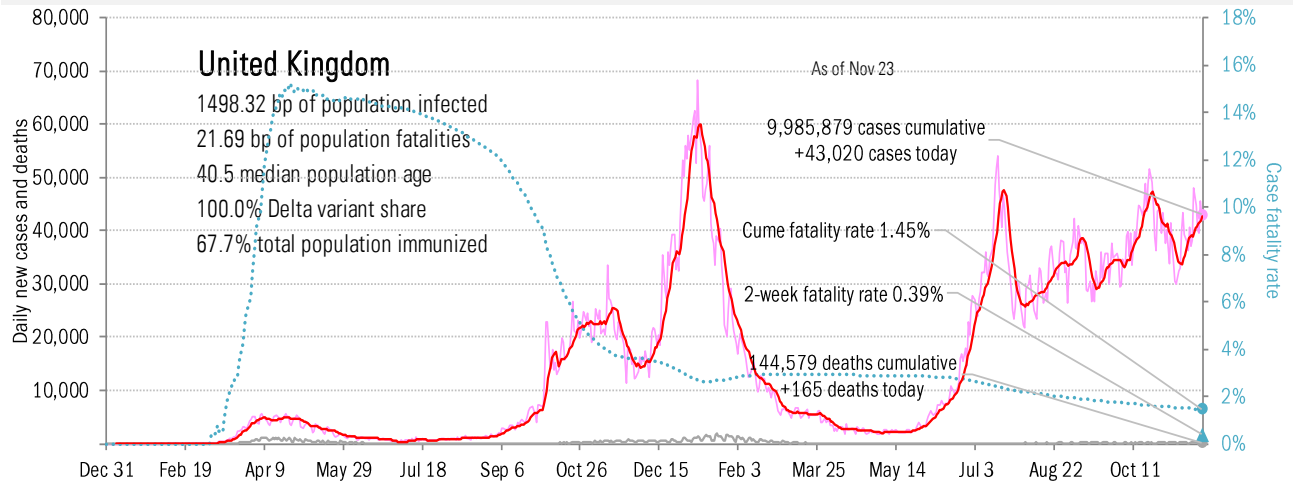
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

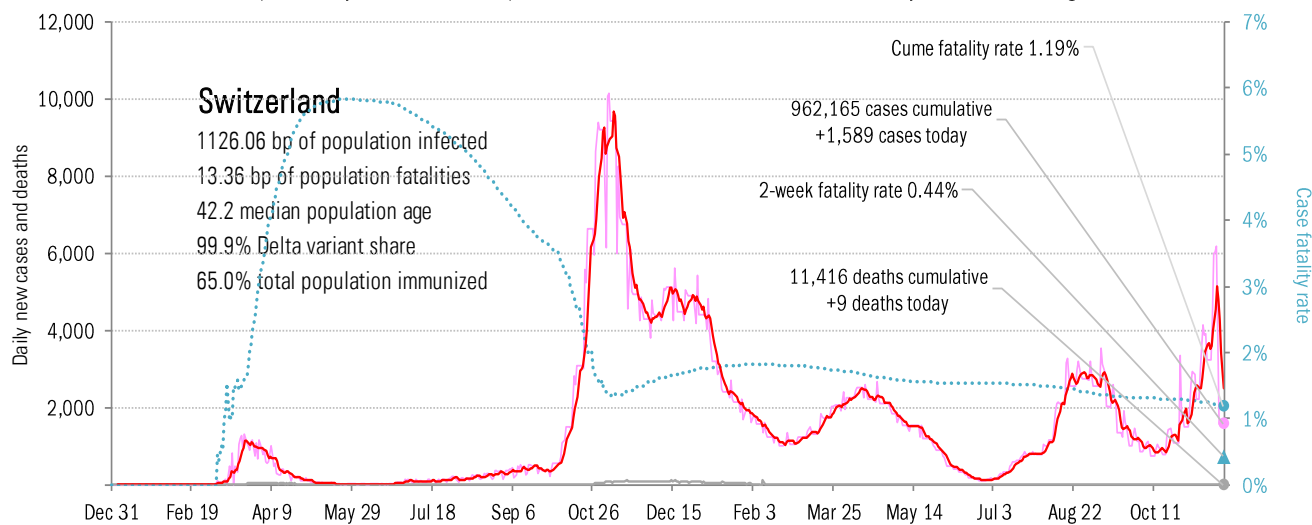
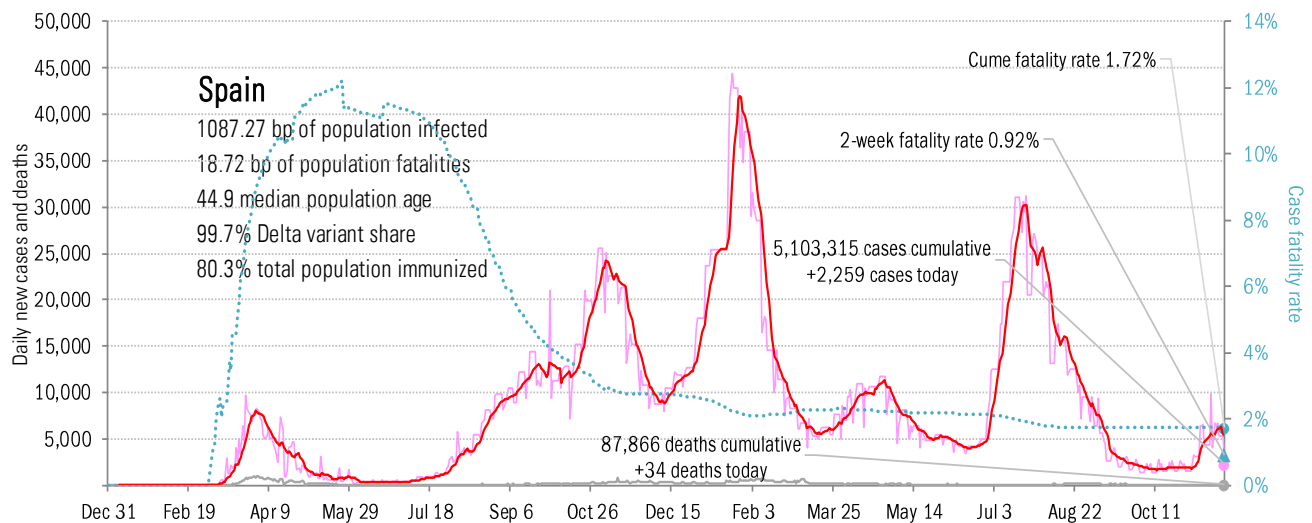
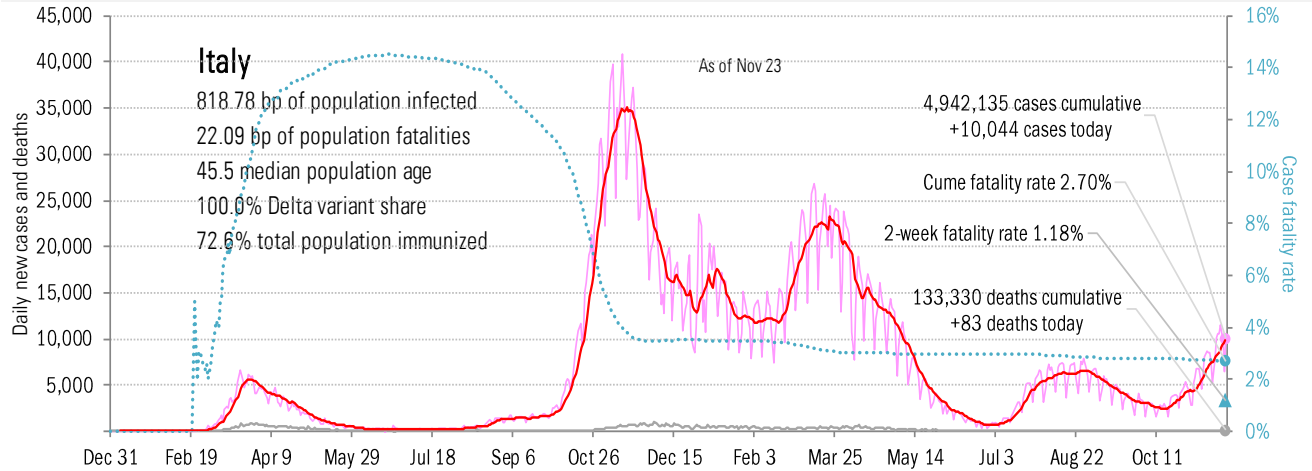
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

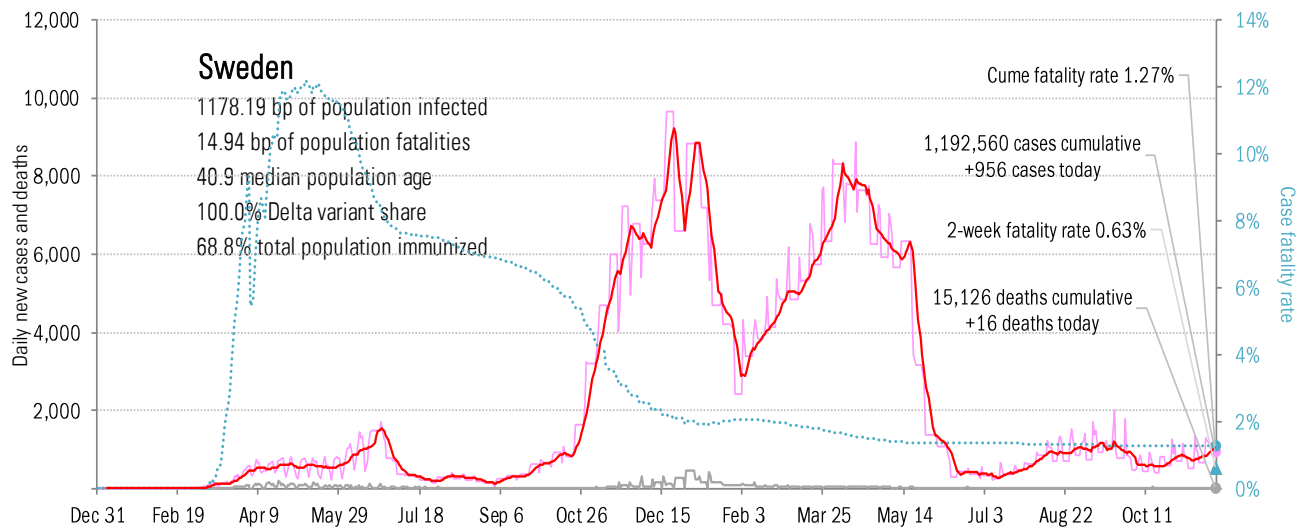
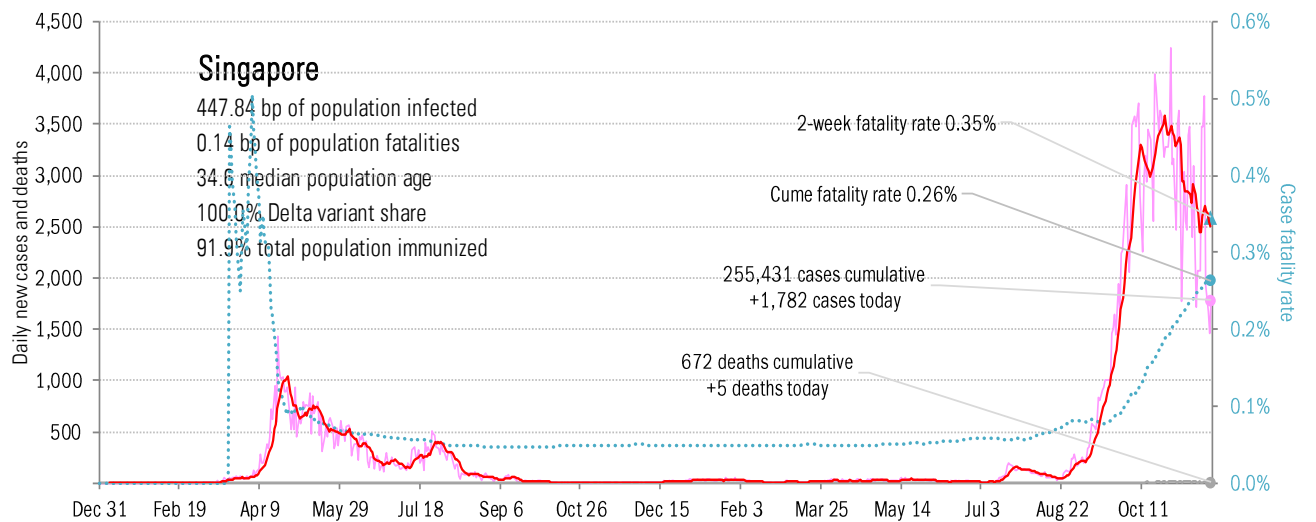
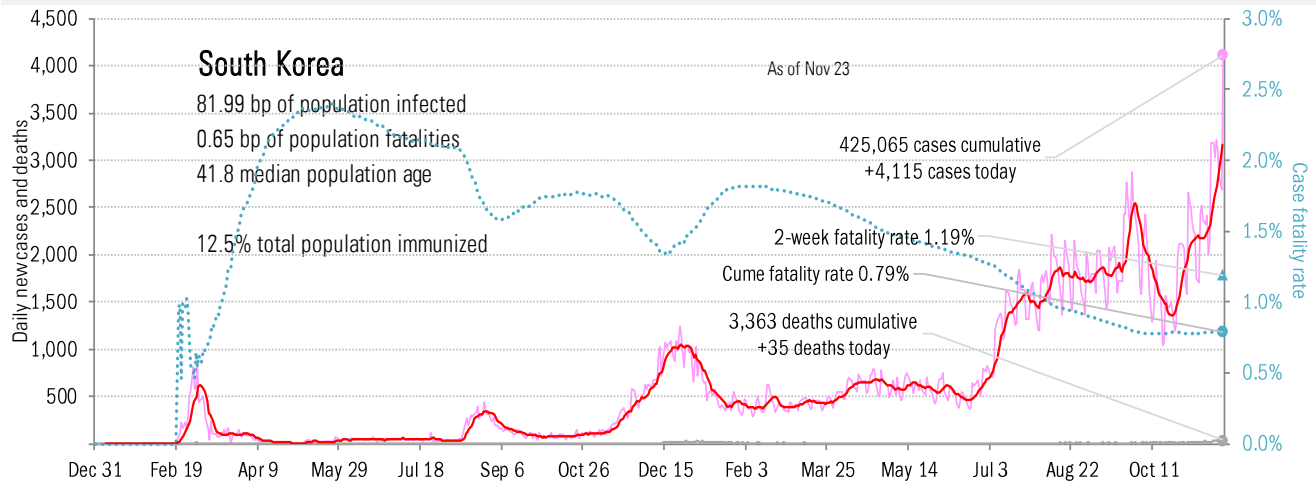
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

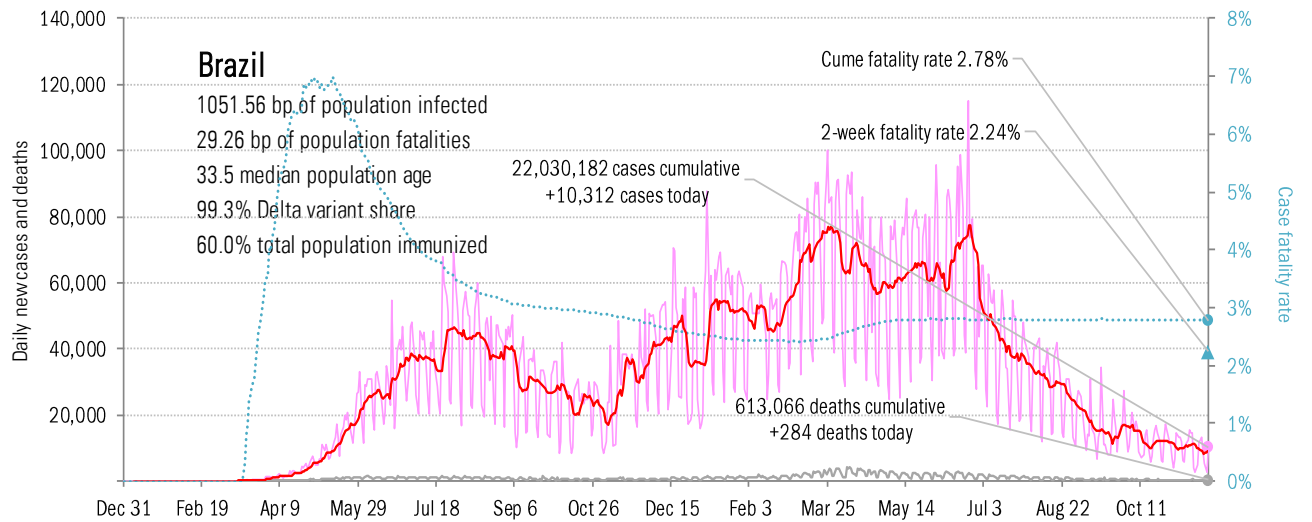
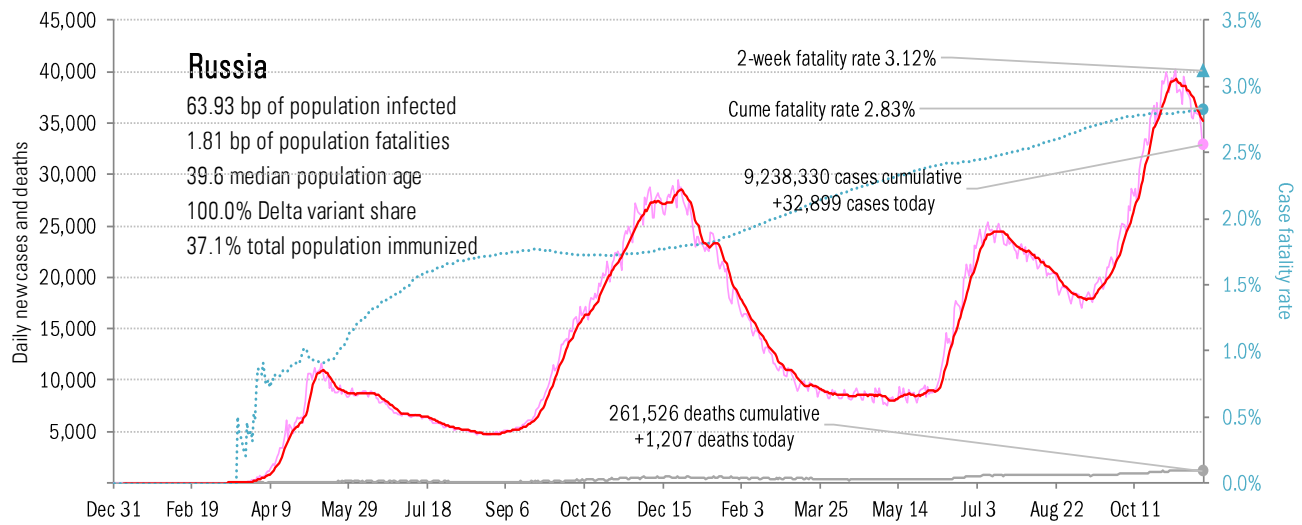
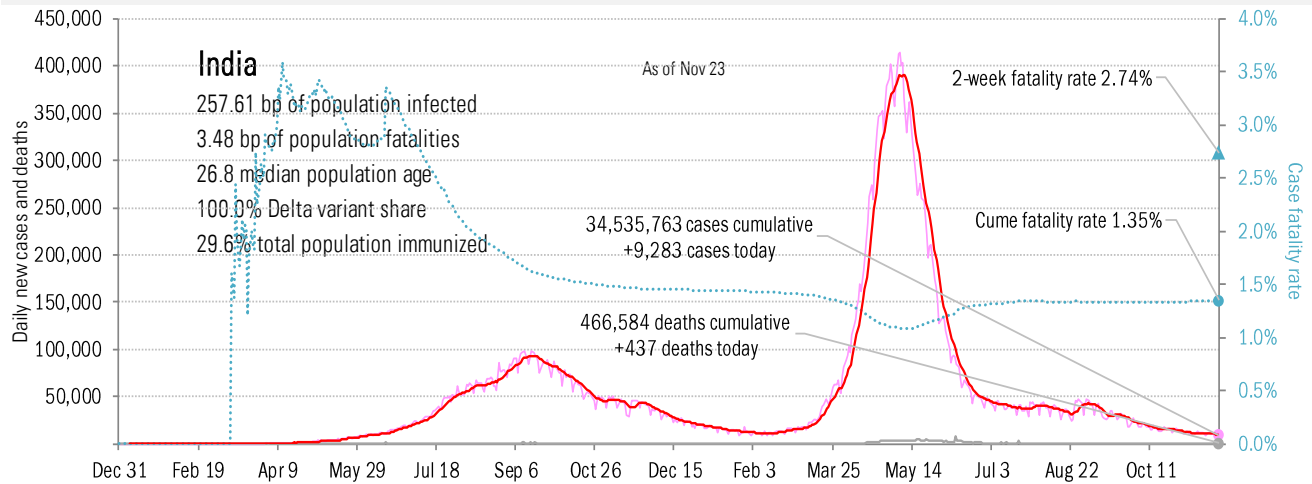
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

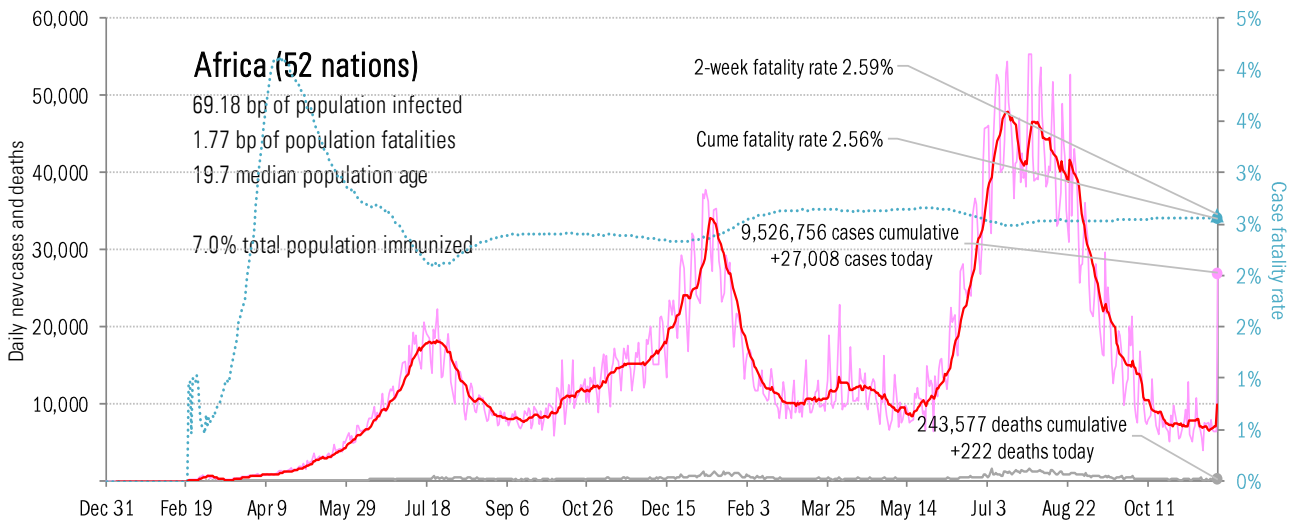
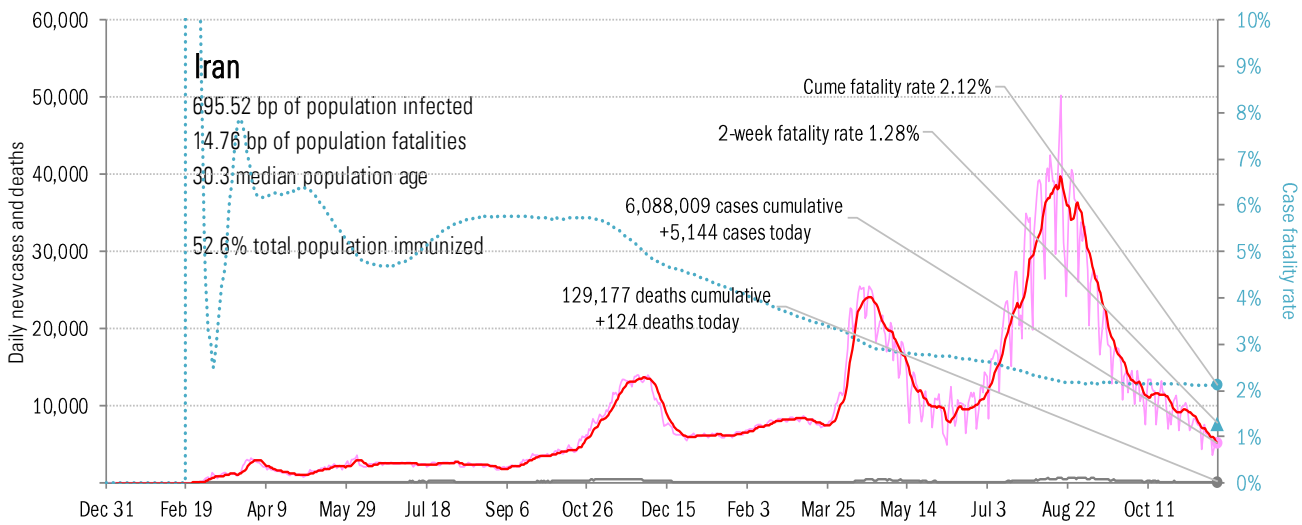
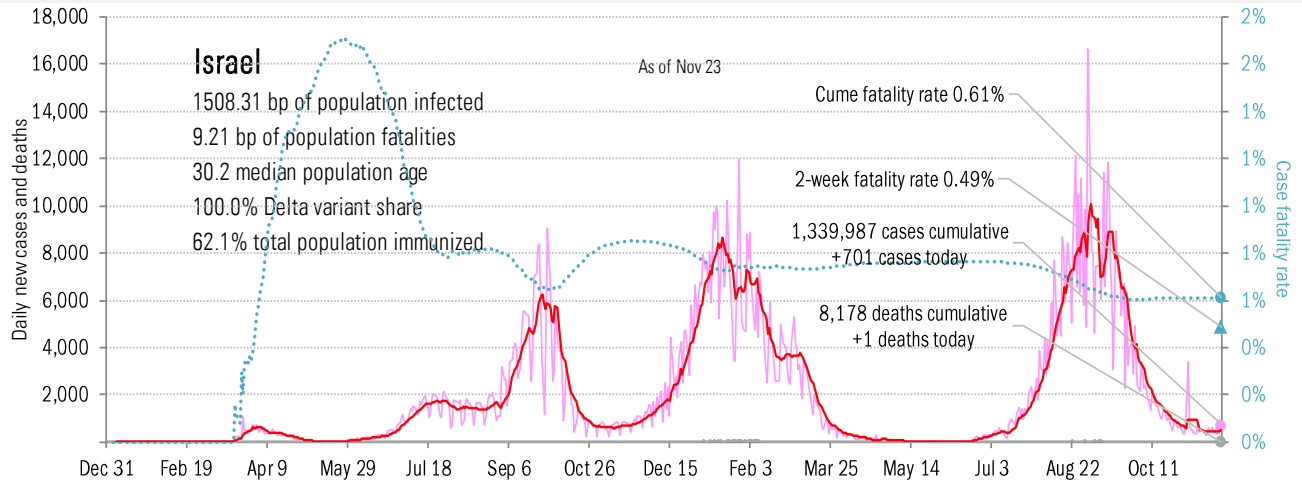
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

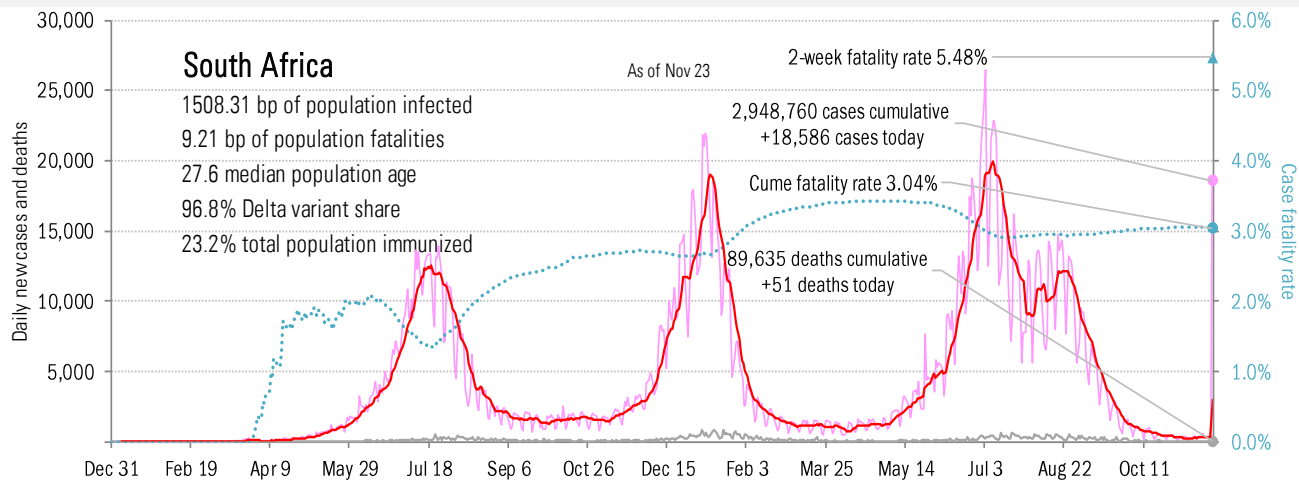
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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