

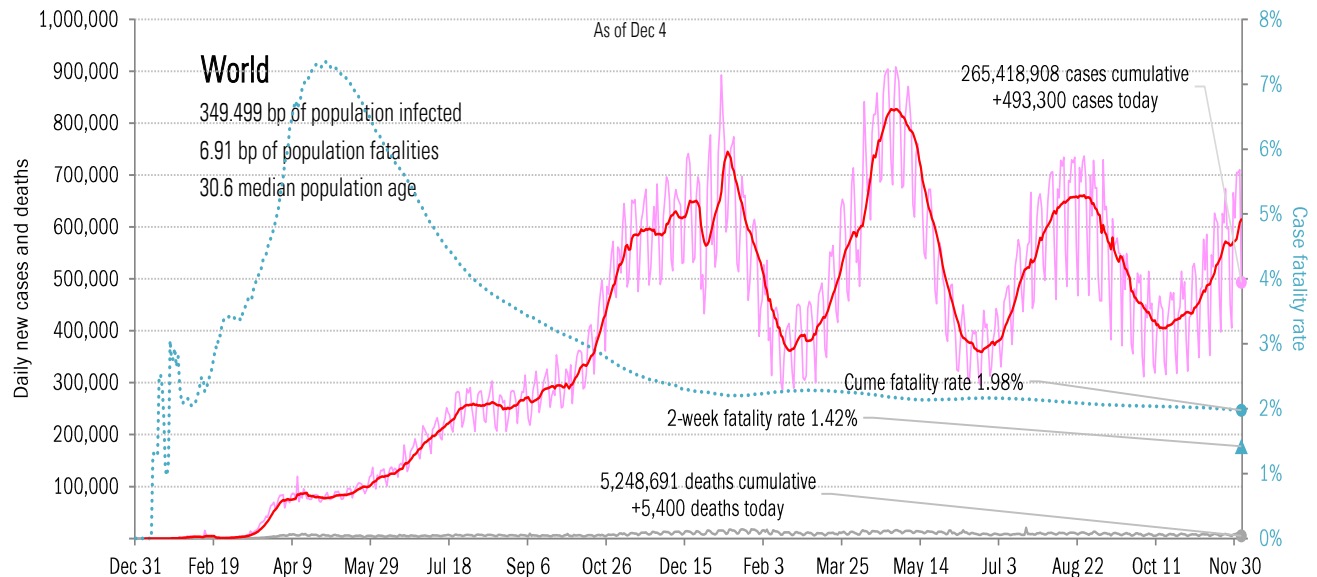
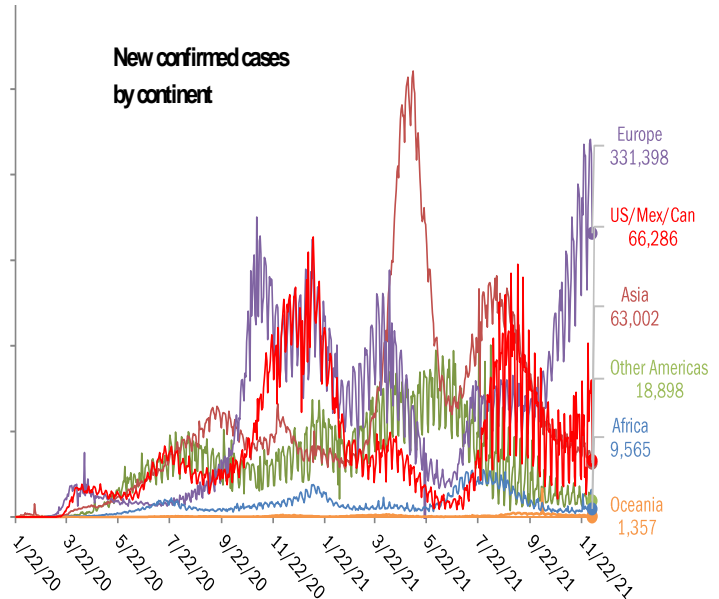
Data Insights: Covid-2019 Monitor

Sunday, December 5, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+63,807	Russia	+1,185
France	+51,624	United States	+586
Germany	+43,500	Poland	+504
United Kingdom	+41,574	Ukraine	+466
Russia	+32,374	Philippines	+243
Poland	+25,575	Turkey	+228
Netherlands	+22,650	Vietnam	+203
Turkey	+20,374	Brazil	+170
Czechia	+17,743	Romania	+131
Italy	+16,627	United Kingdom	+127
+335,848		+3,843	
World +493,300		World +5,400	
Top ten 68%		Top ten 71%	



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

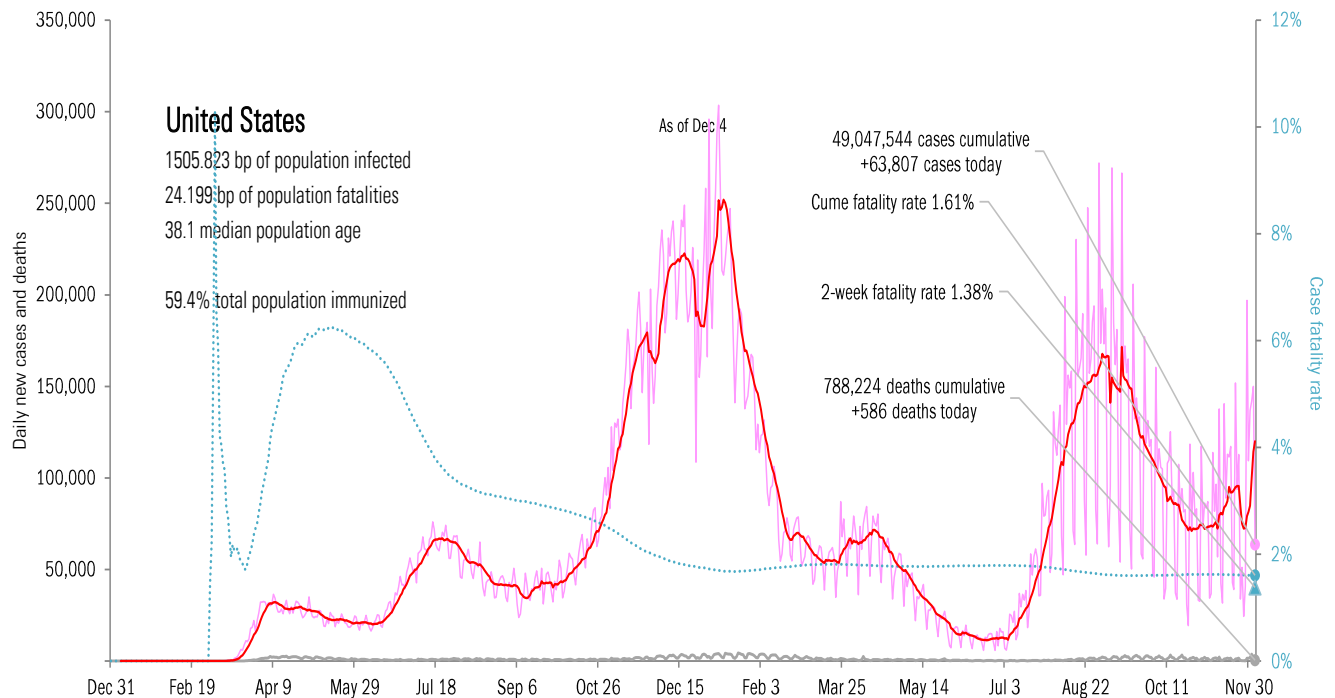
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
PA	+9,264		AZ	+164		GA	+136		CA	5,107,717		CA	74,800		TX	385,938		RI	88%	NM	95%
NY	+8,079		PA	+113		MI	+127		TX	4,351,335		TX	74,169		FL	324,303		MA	88%	RI	92%
CH	+7,793		FL	+79		CH	+104		FL	3,737,462		FL	61,723		CA	322,115		PA	87%	AL	90%
AZ	+6,043		TX	+62		IN	+69		NY	2,769,624		NY	57,725		NY	174,592		MI	85%	AR	89%
MO	+4,773		NY	+30		PA	+66		IL	1,835,076		PA	33,859		GA	163,624		WV	85%	AK	89%
IA	+4,563		KS	+25		NJ	+51		PA	1,773,060		GA	30,655		CH	137,695		MO	85%	NE	88%
KS	+4,502		AR	+22		MO	+48		CH	1,725,669		IL	28,968		PA	129,077		MD	85%	KY	88%
NJ	+4,414		CA	+19		IL	+44		GA	1,668,875		NJ	28,452		KY	115,229		WA	83%	MI	88%
FL	+2,794		NJ	+18		NY	+44		NC	1,544,544		CH	26,851		IL	112,290		GA	83%	TX	87%
CA	+2,290		MD	+15		AZ	+42		MI	1,517,325		MI	26,108		MI	105,755		MN	83%	NH	87%
+54,515			+547			+731			26,030,687			443,310			1,970,618						
All states	+63,807		+586			+980			All states	49,047,544		788,224			3,545,580			All states	70%	67%	
Top ten	85%		93%			75%			Top ten	53%		56%			56%			Median	79%	80%	

Some states not reporting

Five most improved US states

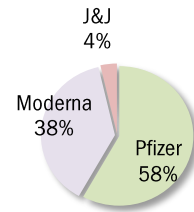
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-22,372	MI	-310	TX	-142	MP	+50 bp
IL	-7,558	CH	-264	IL	-81	IL	+30 bp
MA	-5,765	TN	-102	PA	-55	VT	+30 bp
MN	-5,682	CA	-93	NC	-51	AK	+20 bp
IN	-5,600	KY	-65	WI	-39	DC	+20 bp



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	481,222,261		+2.080 million	US	59.4%	70.9%
Boosters	46,058,021		+0.500 million	UK	68.2%	74.9%
	One dose	% Pop	Immune	% pop	New immune today	
Total population	241,170,275	72%	203,683,757	61%	+0.381 million	France 70.0% 77.0%
Age 12 to 17	14,749,021	62%	12,351,304	52%	+0.021 million	Spain 80.6% 82.2%
Age 18 to 64	163,580,451	80%	140,454,871	69%	+0.147 million	Germany 68.3% 71.2%
Age 65 and over	57,177,563	100%	49,020,727	89%	+0.018 million	Italy 73.1% 78.5%



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



Every American >18 immunized in **32 days** by Jan 4, 2022
 73.2% of population >18 immunized
 17.2% previously tested positive
90.5% vs 60% adult herd immunity

Israel	62.2%	68.5%
Canada	76.4%	80.8%
Japan	77.4%	79.2%
Africa	7.5%	11.3%
India	34.0%	57.4%
Brazil	63.9%	76.9%
China	76.9%	84.8%

Global data differs due to sources, timing

AK
63.4%
54.7%

WI
66.2%
60.0%

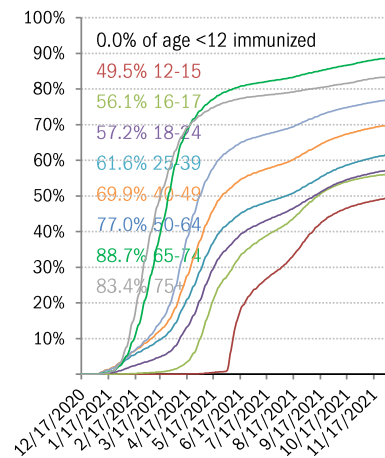
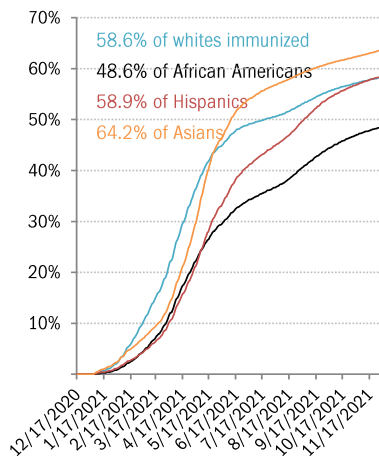
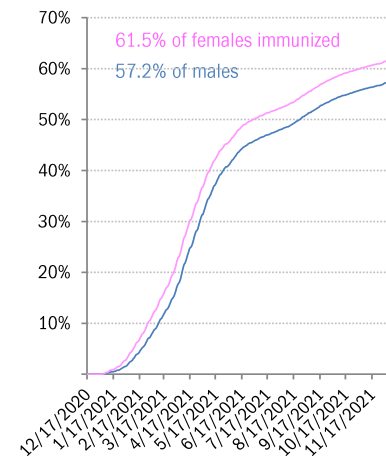
As of Dec 3

ME
82.6%
72.9%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
73.3%	51.0%	60.3%	58.5%	69.5%	69.5%	61.6%	79.1%	86.1%	89.1%	
65.5%	45.4%	52.2%	49.2%	63.1%	62.0%	55.0%	68.9%	73.5%	65.1%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
71.9%	66.8%	54.1%	67.8%	63.0%	56.1%	58.8%	82.4%	79.9%	86.5%	
64.4%	54.8%	46.0%	55.2%	57.2%	50.8%	53.5%	59.0%	68.3%	71.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
79.5%	65.1%	71.9%	64.5%	60.3%	60.7%	69.3%	76.1%	77.5%	84.7%	84.0%
63.7%	55.9%	63.6%	57.9%	51.4%	52.6%	49.1%	65.6%	68.2%	72.4%	73.3%
AZ	NM	KS	AR	TN	NC	SC	DC	DE		
64.8%	77.4%	66.7%	60.8%	57.2%	71.3%	60.7%	82.5%	73.5%		
55.1%	64.0%	55.0%	49.6%	49.8%	54.7%	51.7%	65.1%	61.9%		
OK	LA	MS	AL	GA						
63.5%	55.9%	54.1%	56.9%	59.4%						
52.0%	49.1%	47.1%	46.4%	49.4%						
TX	FL	PR								
64.5%	72.2%	85.6%								
55.1%	61.8%	74.5%								

HI
82.6%
61.5%

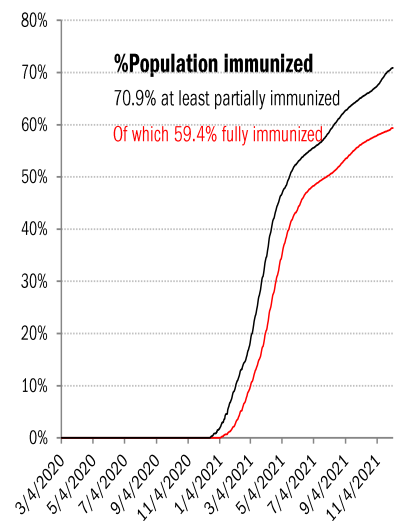
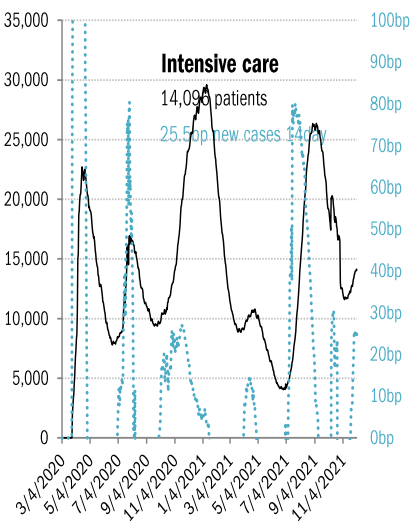
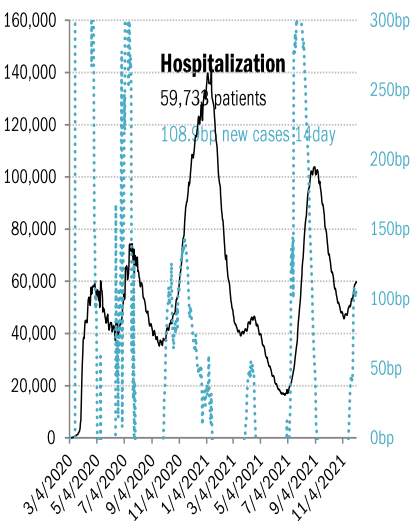
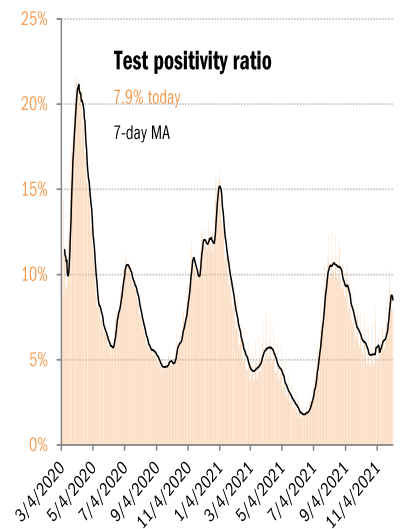
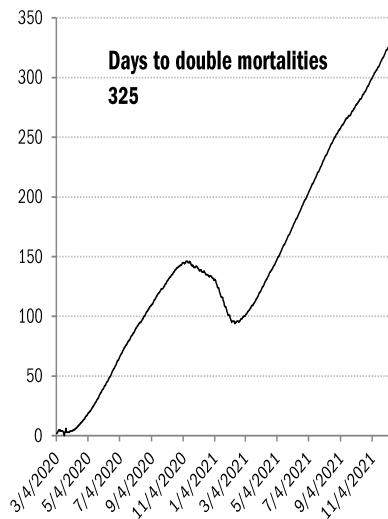
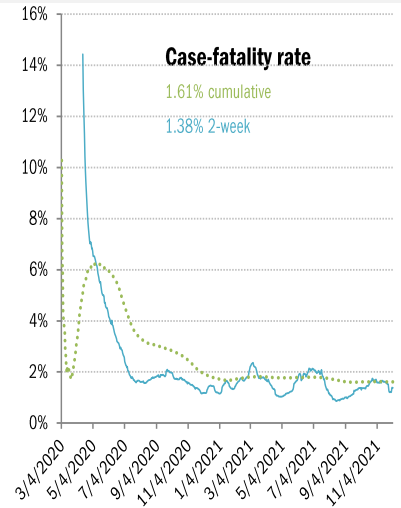
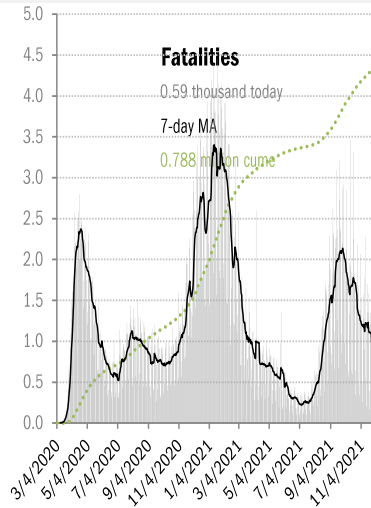
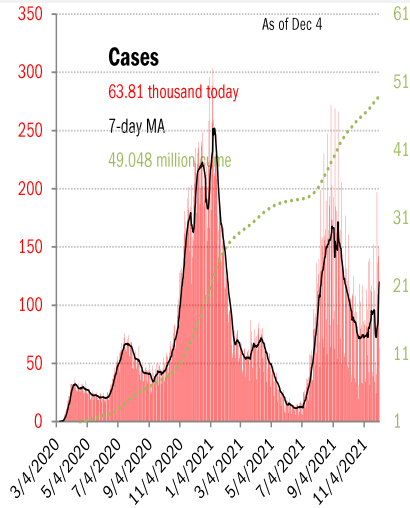
The demographics of US vaccination



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

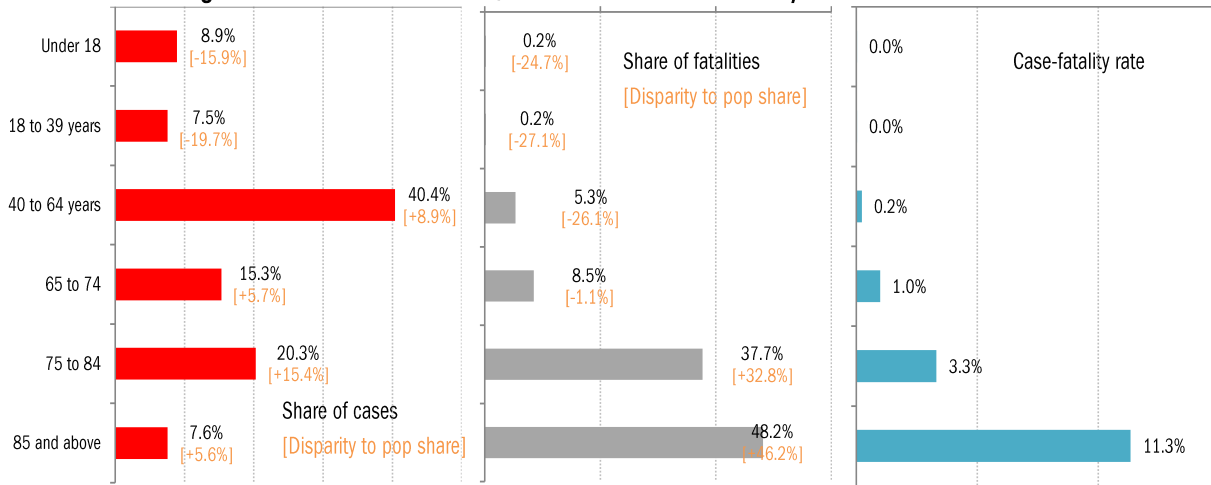
US deep-dive

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

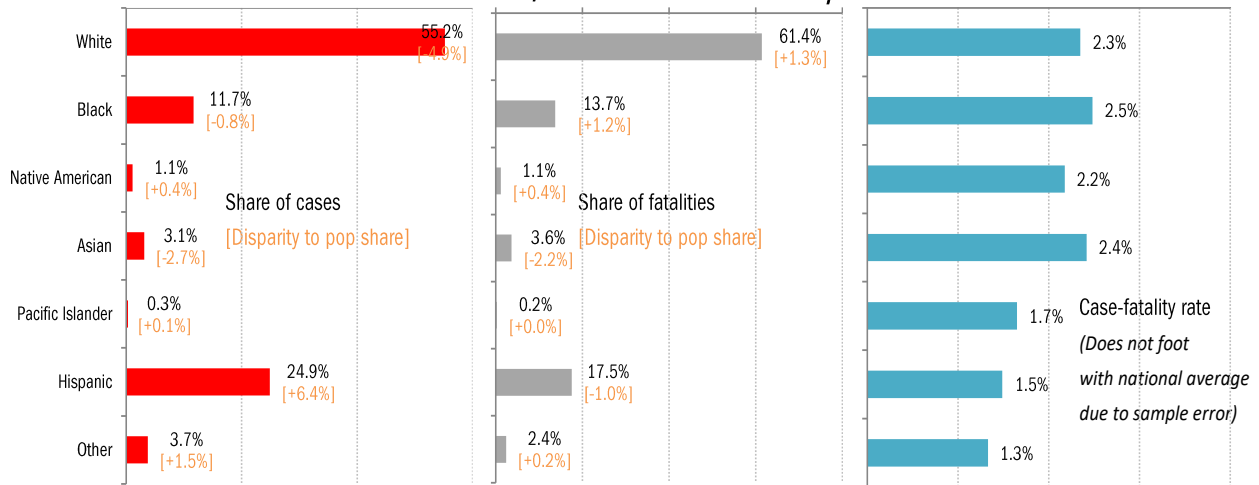


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

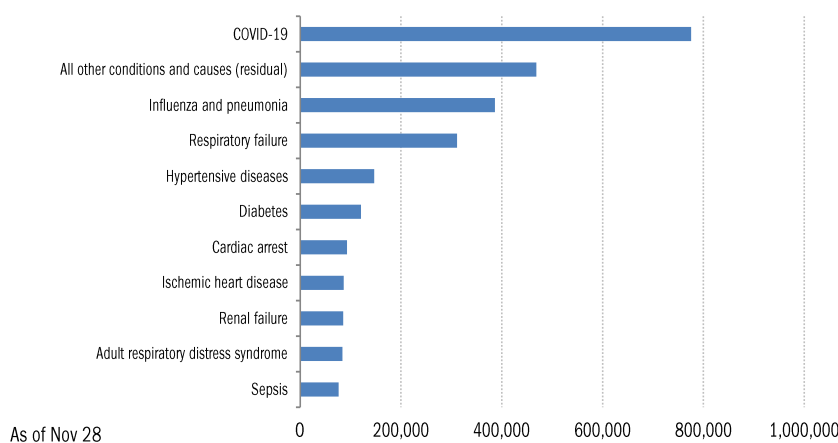


Racial distribution of US cases, fatalities and case-fatality rates



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

[More than 40,000 march in Vienna against Austria's strict coronavirus measures.](#)

Isabella Grullón Paz
New York Times
December 4, 2021

[Vaccine demand grows in the U.S. and so do wait times.](#)

Vimal Patel
New York Times
December 5, 2021

[The Vast Promise of mRNA Technology](#)

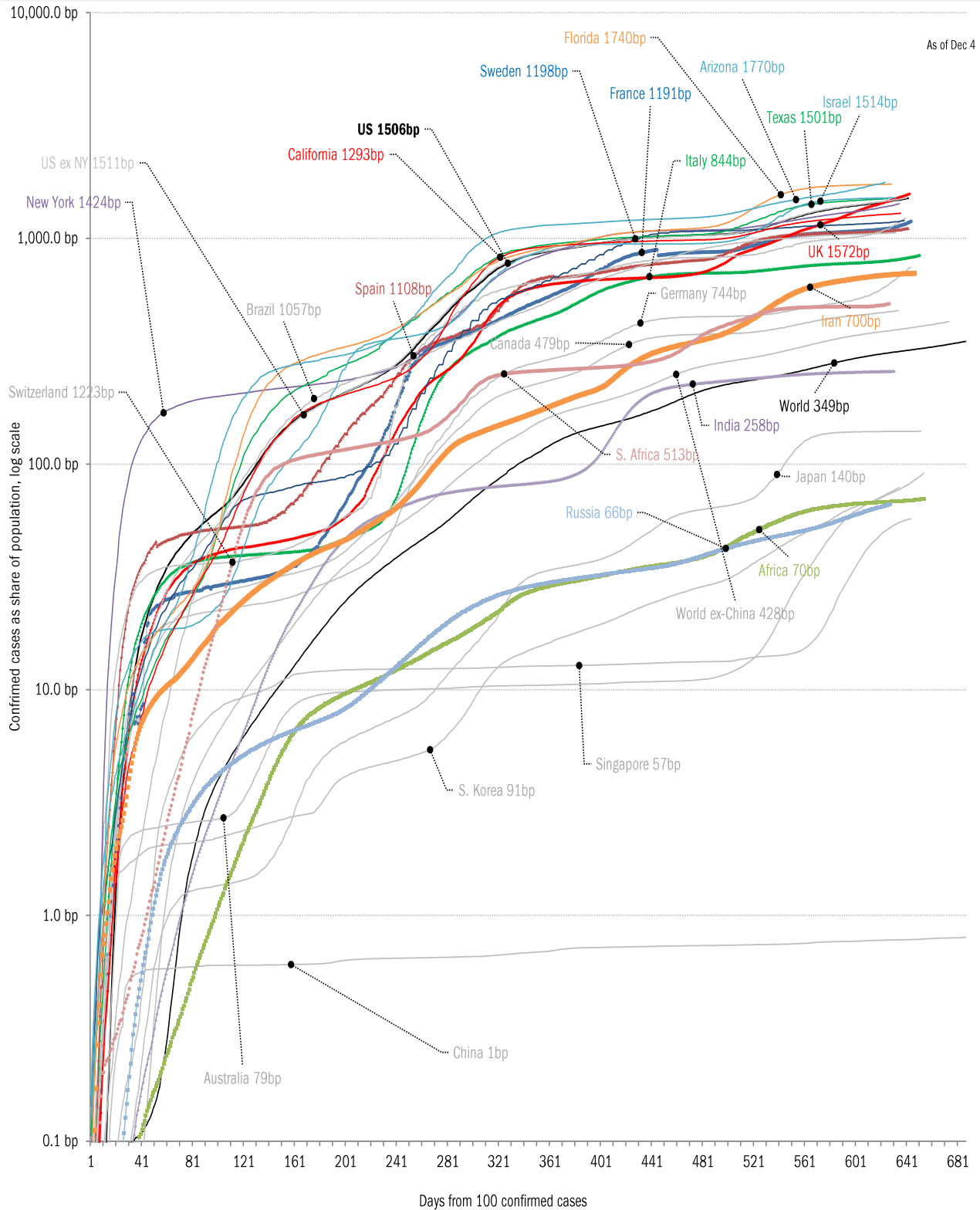
Allysia Finley
Wall Street Journal
December 3, 2021

Meme of the day



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

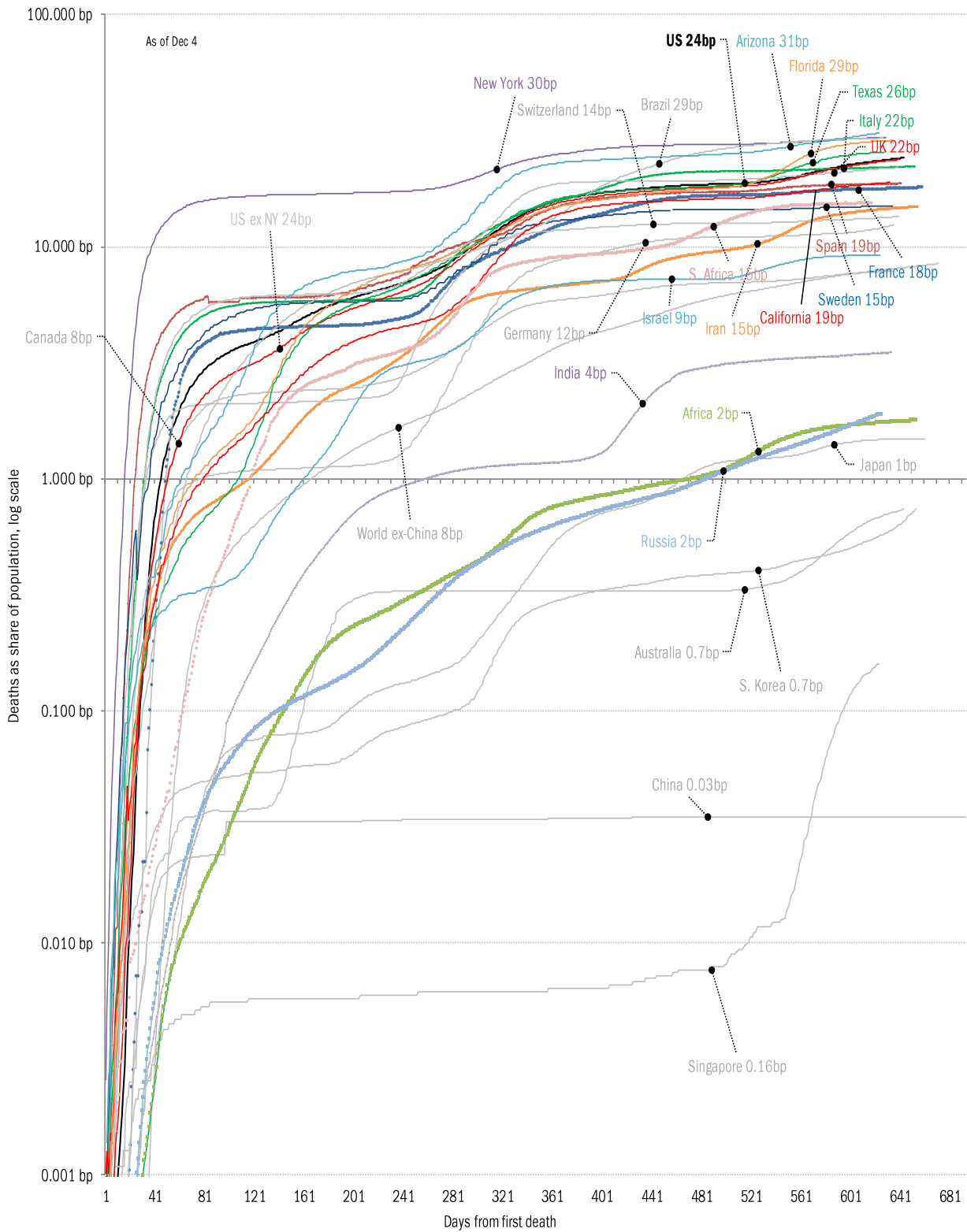
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

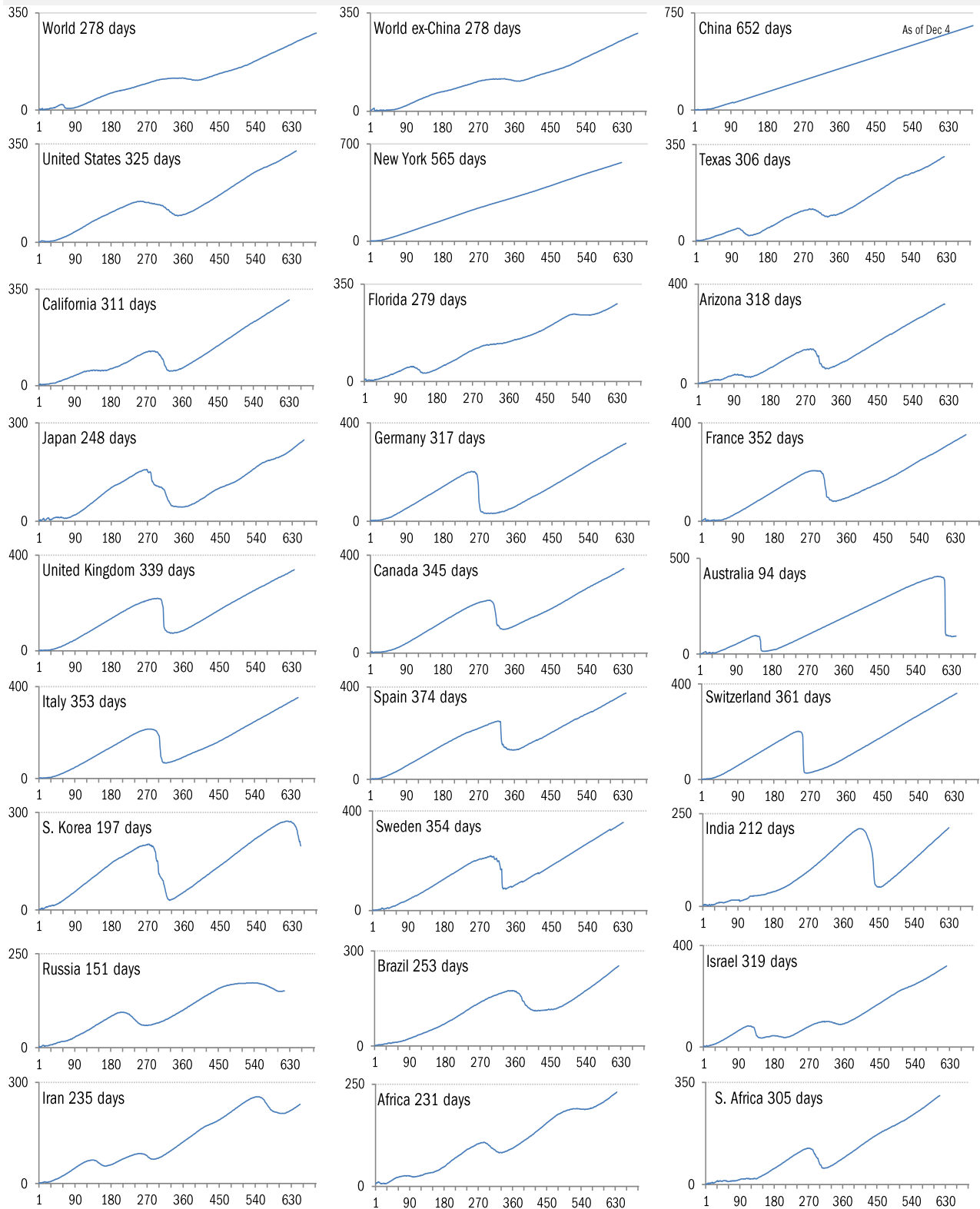


Source: [Johns Hopkins](#), TrendMacro calculations

"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

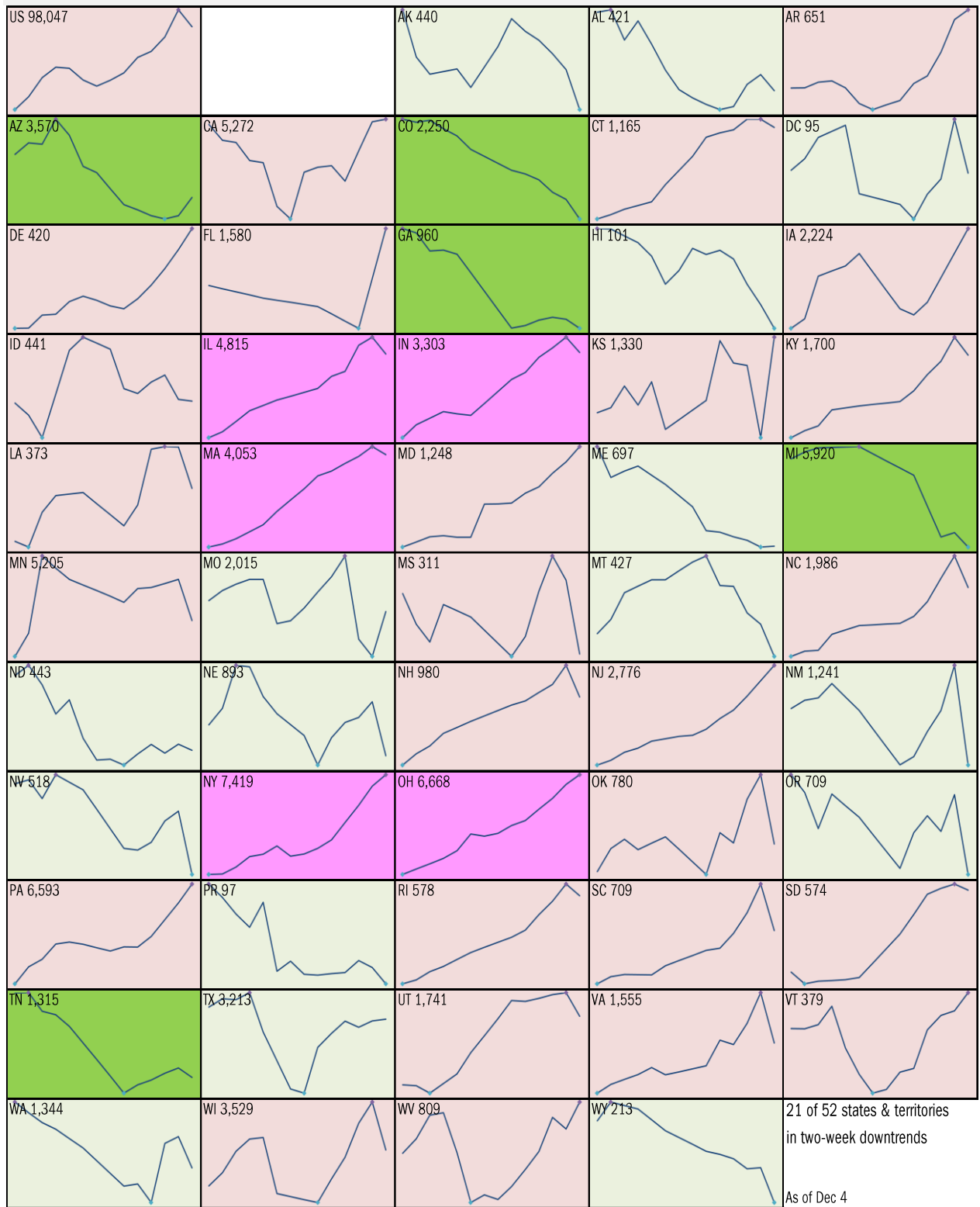


Source: [Johns Hopkins](#), TrendMacro calculations

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

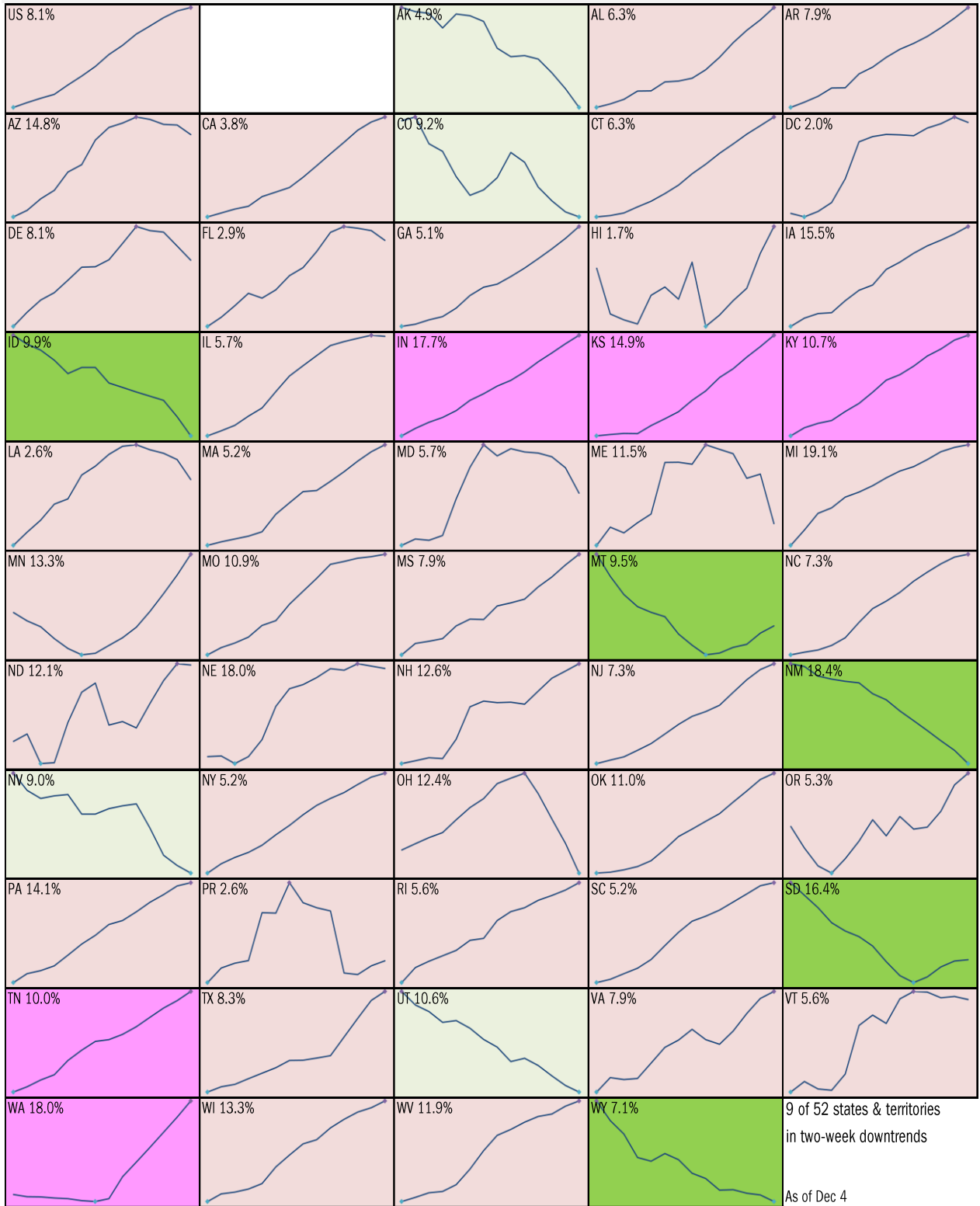
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

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

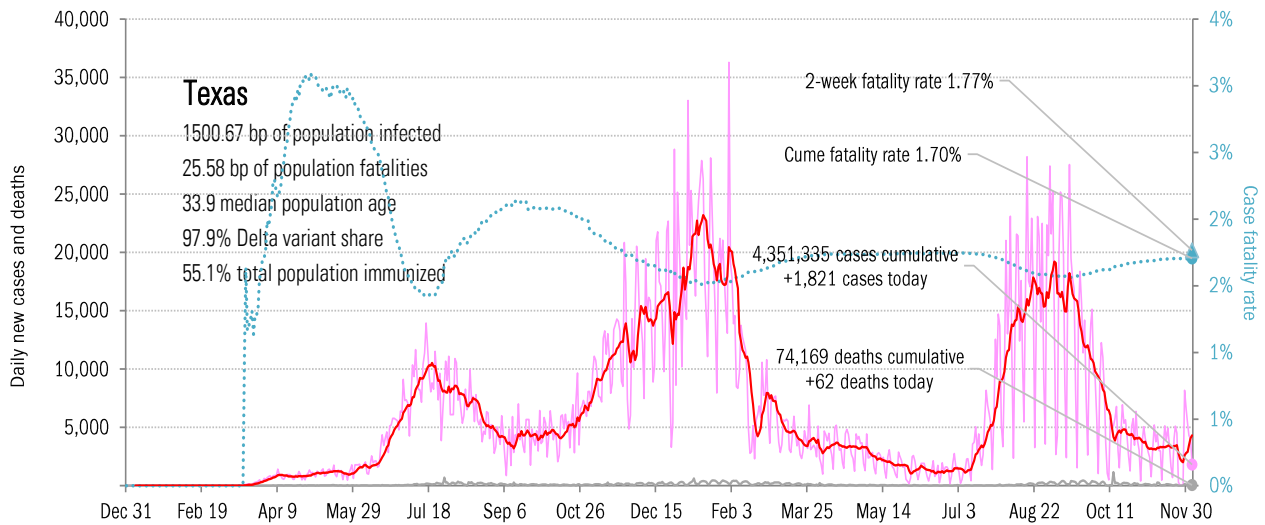
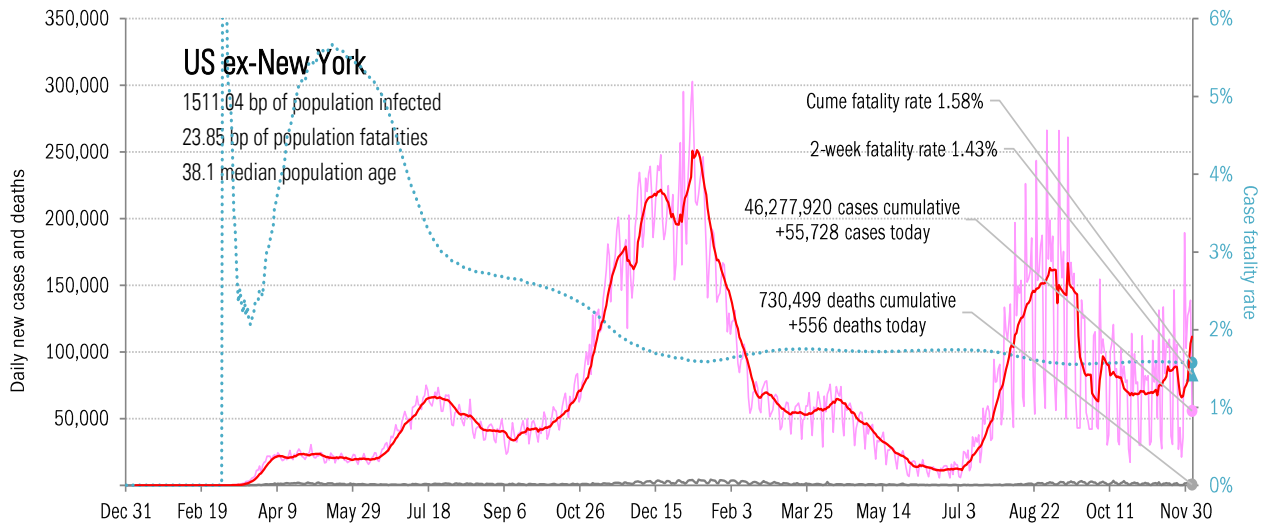
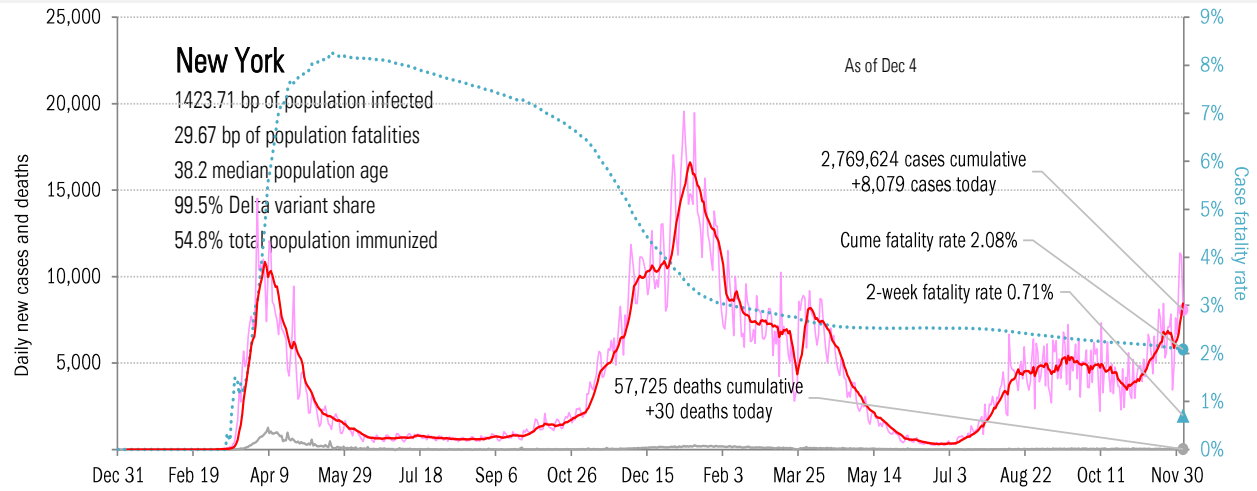
14-day moving average, last 14 days Most recent value displayed ● High ● Low
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

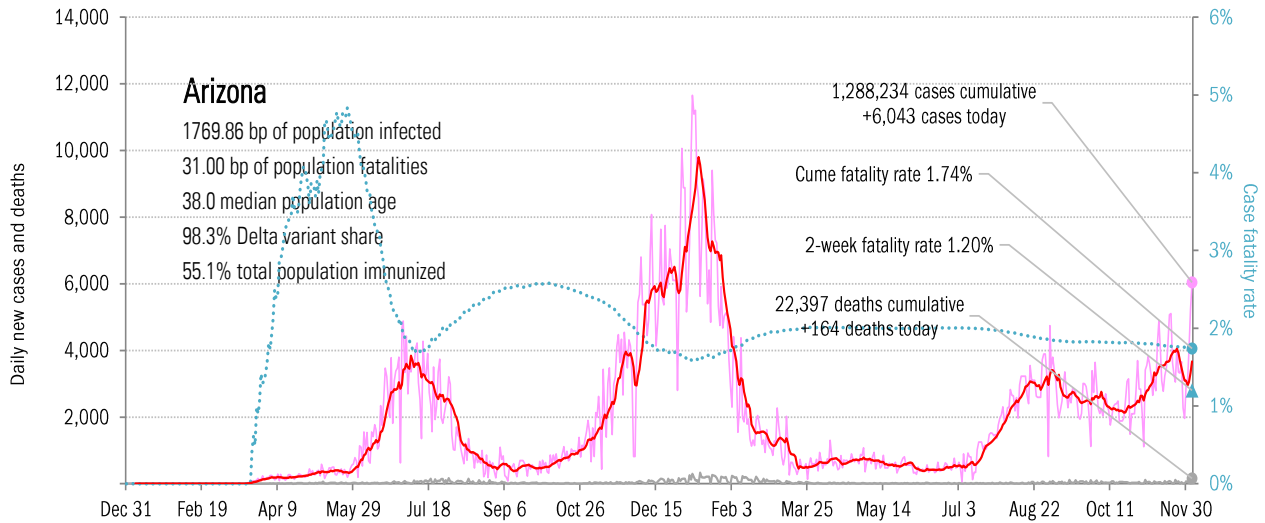
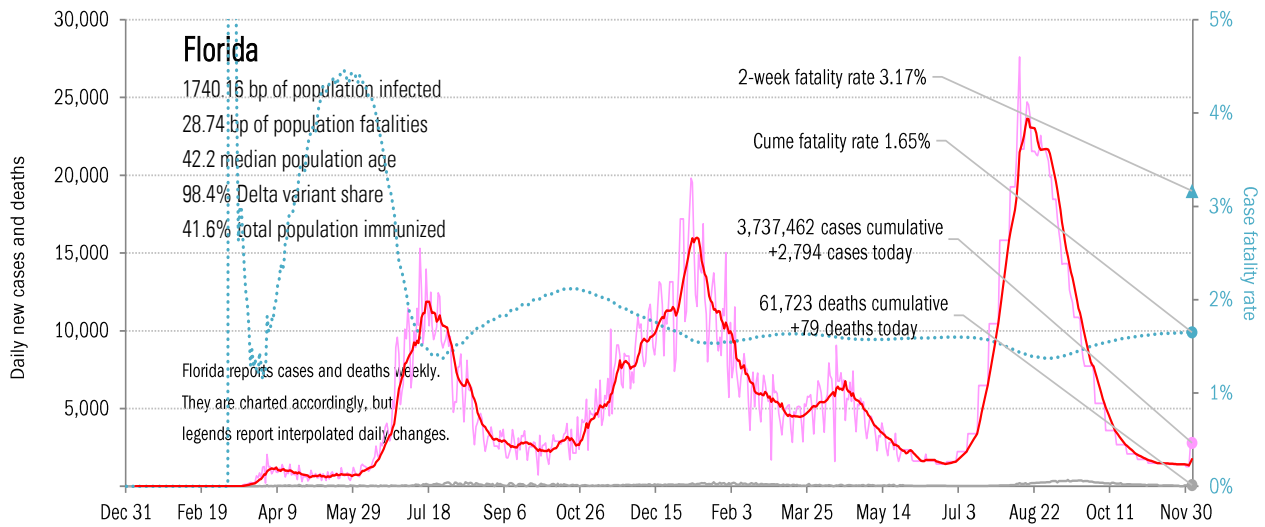
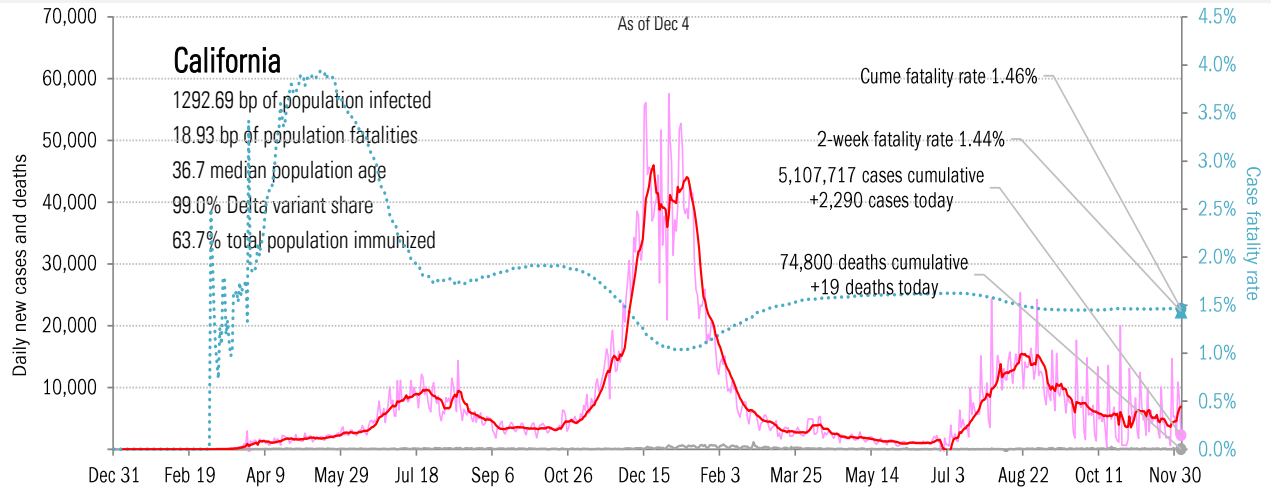
Cases: 7-day average and daily Deaths: Daily



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

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

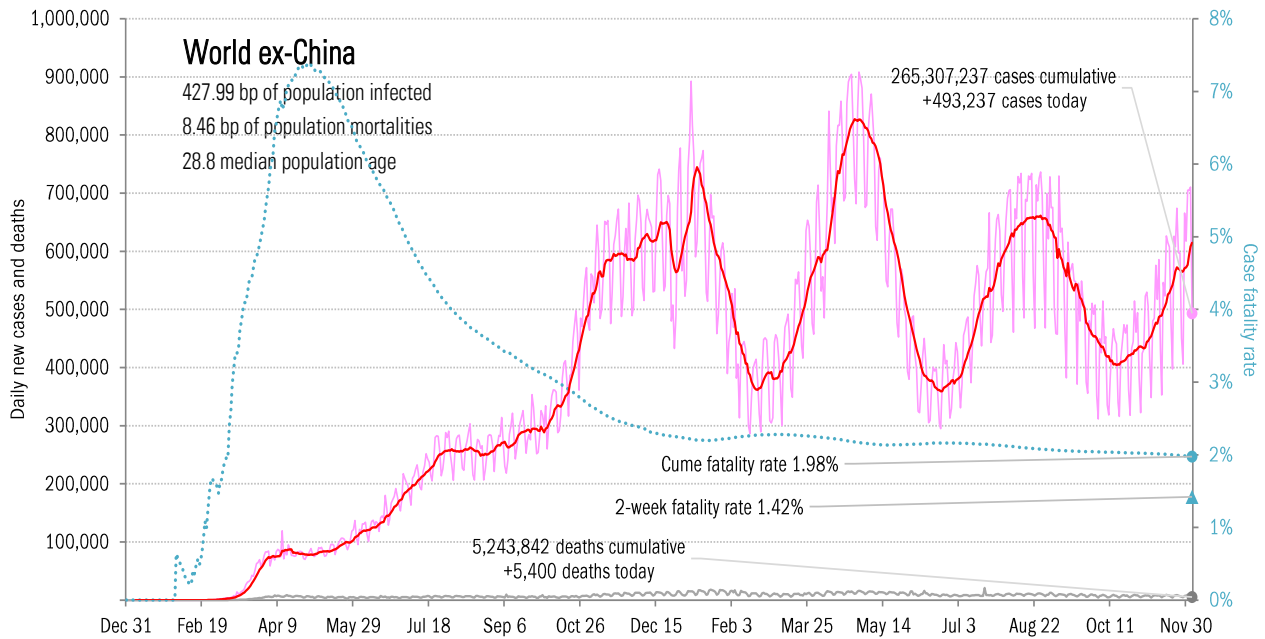
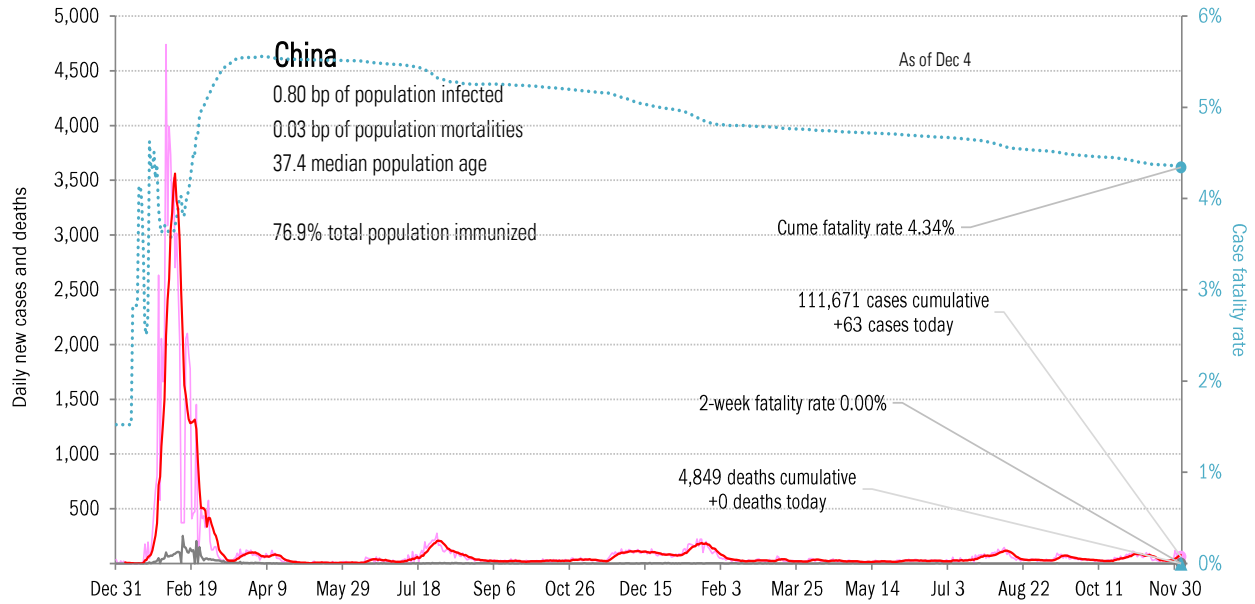
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

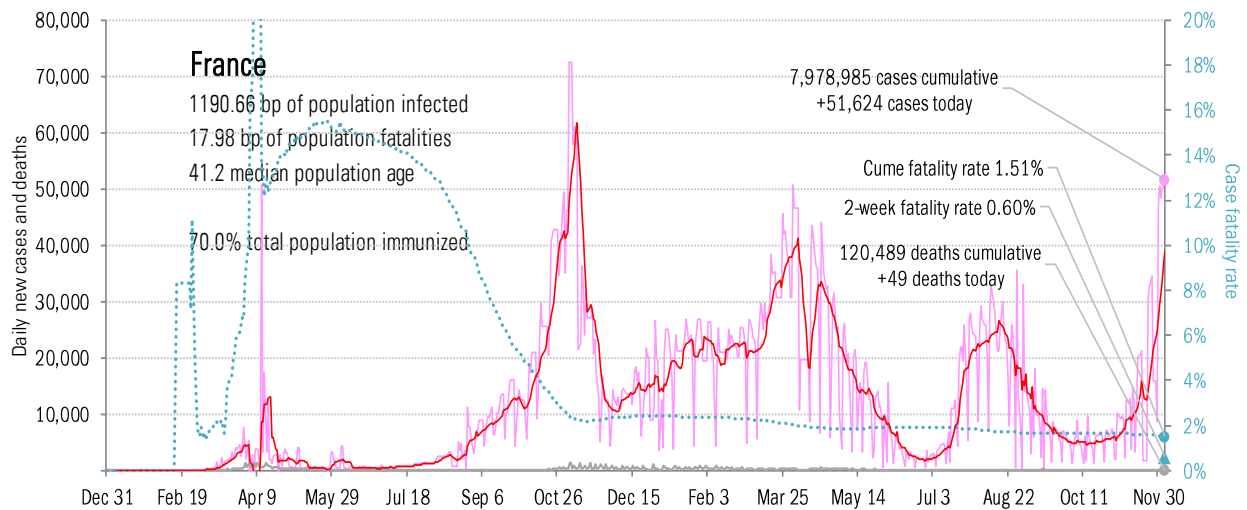
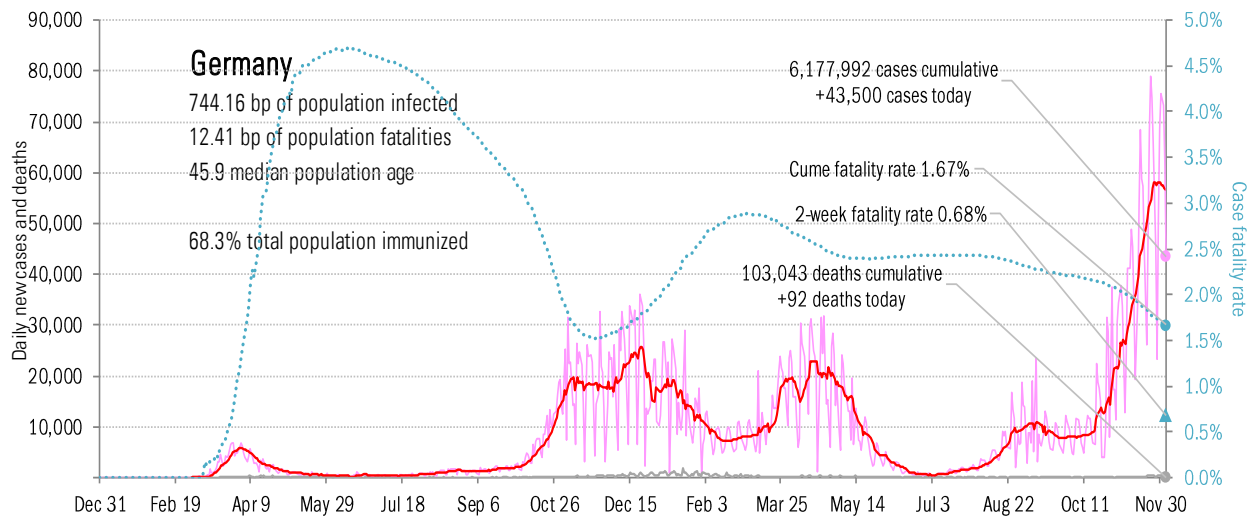
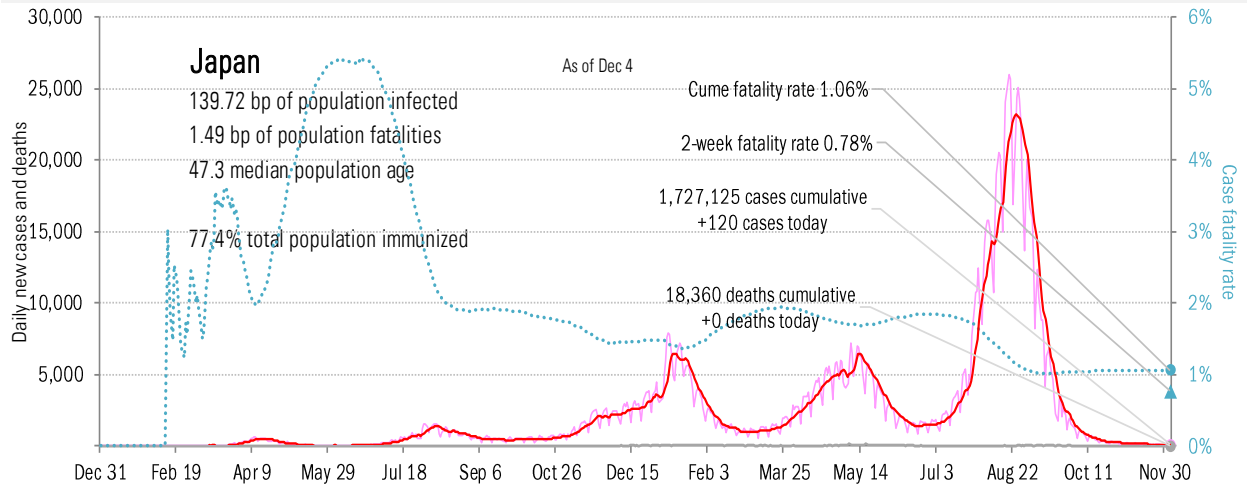
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

Impact in the largest economies

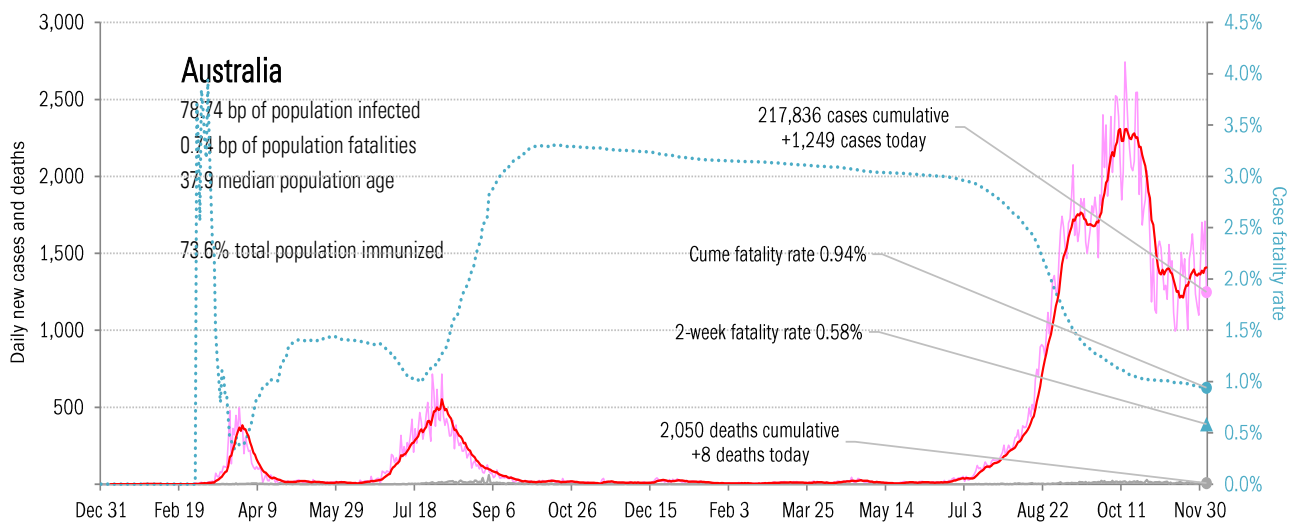
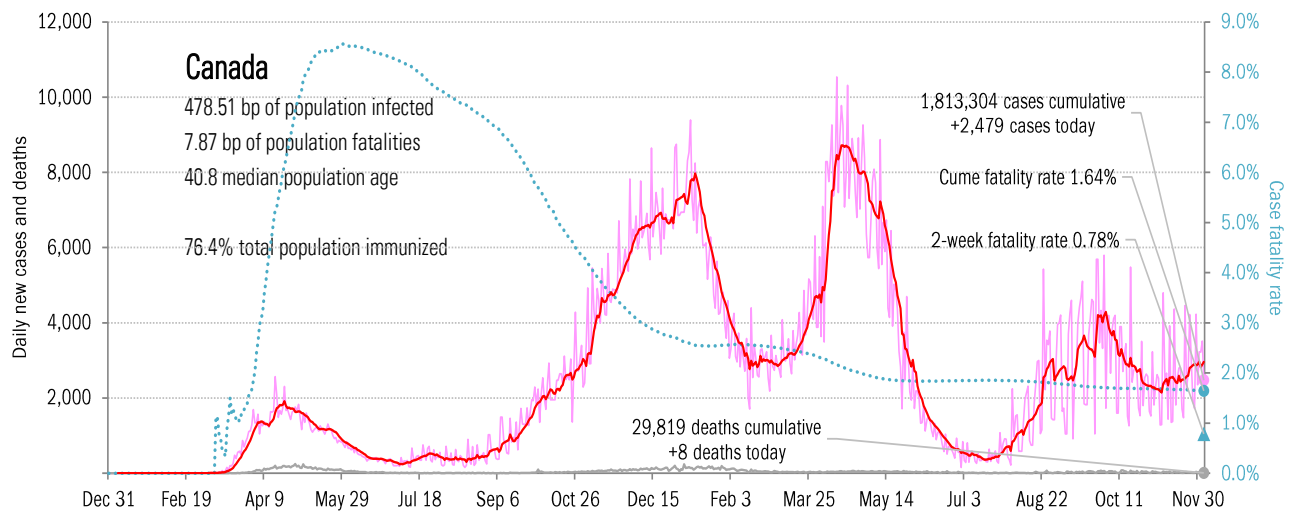
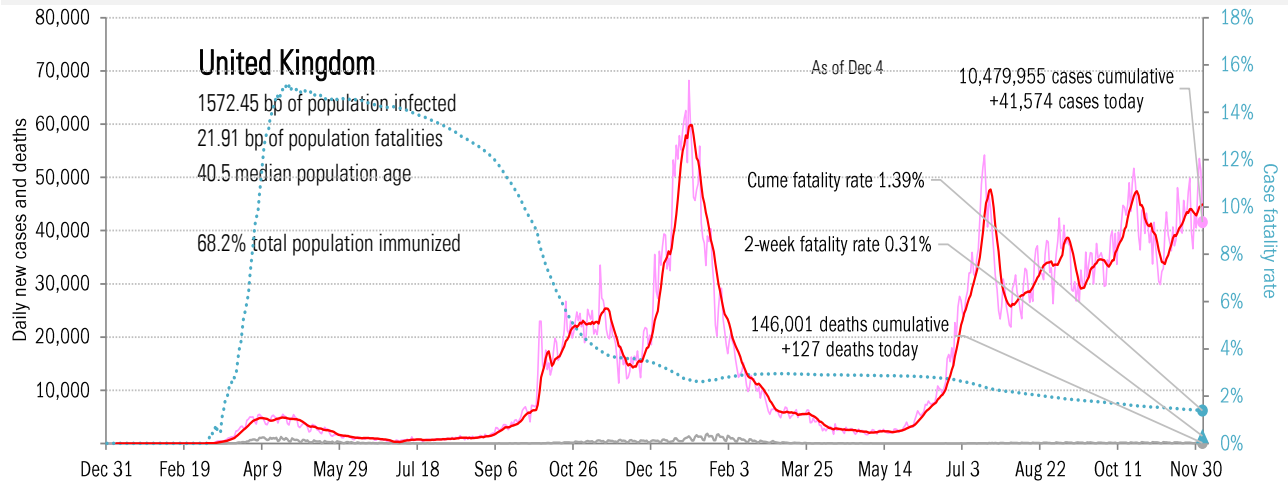
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

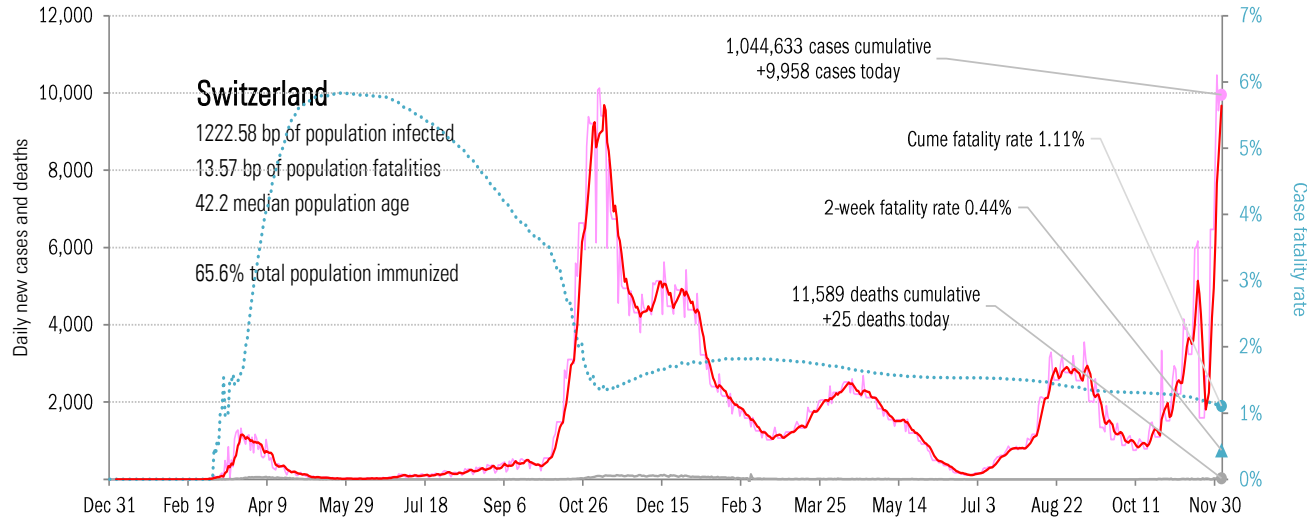
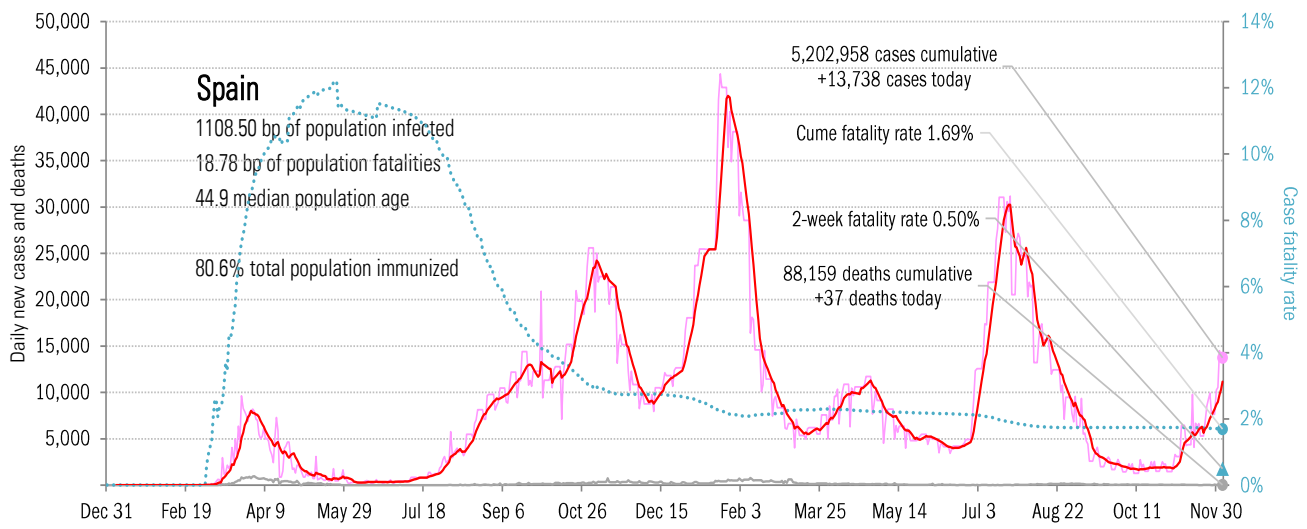
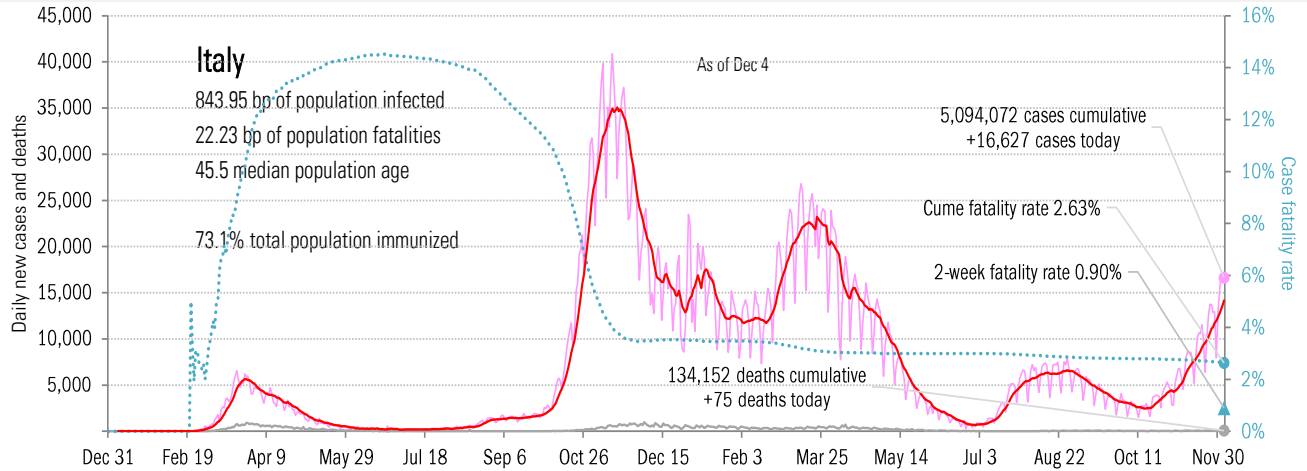
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

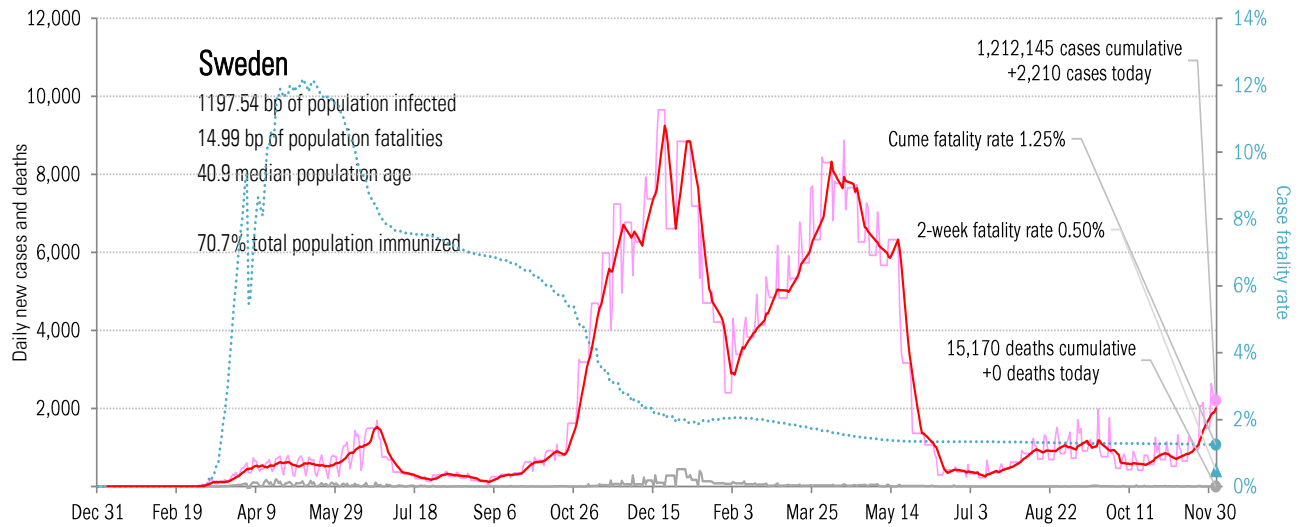
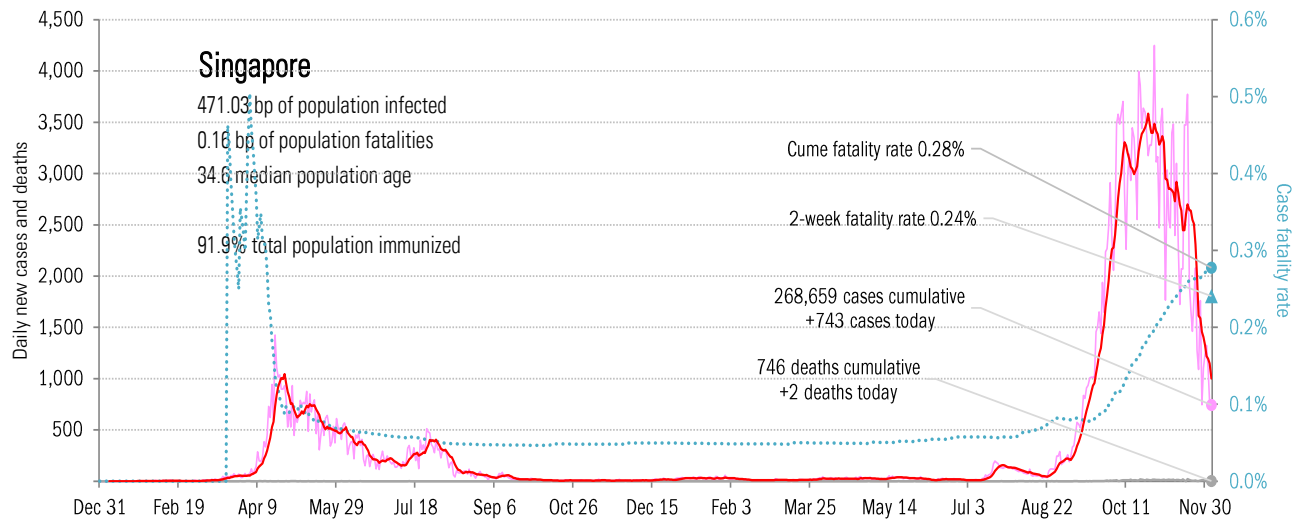
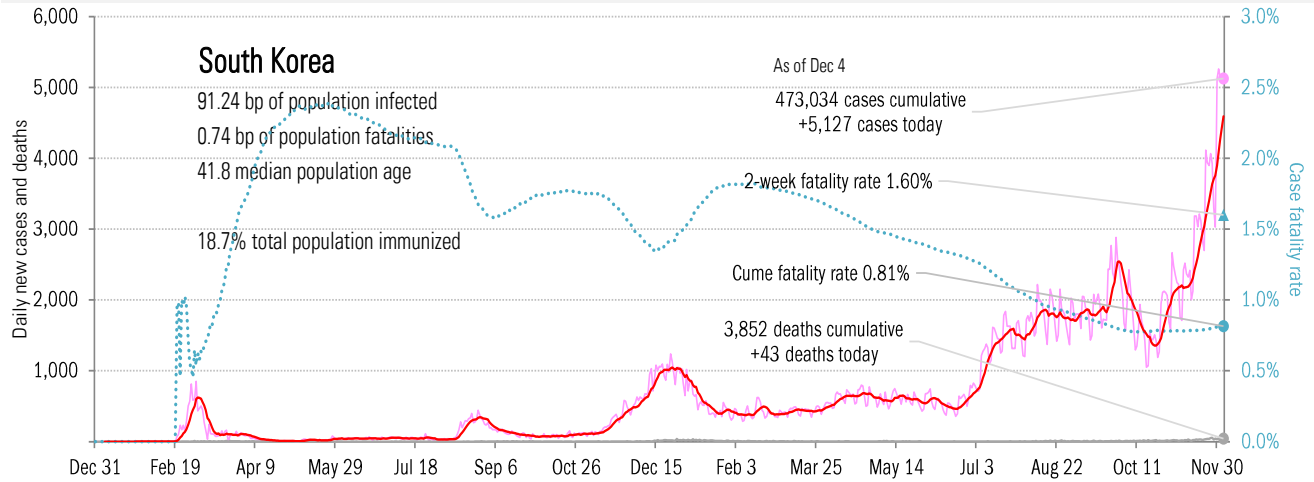
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

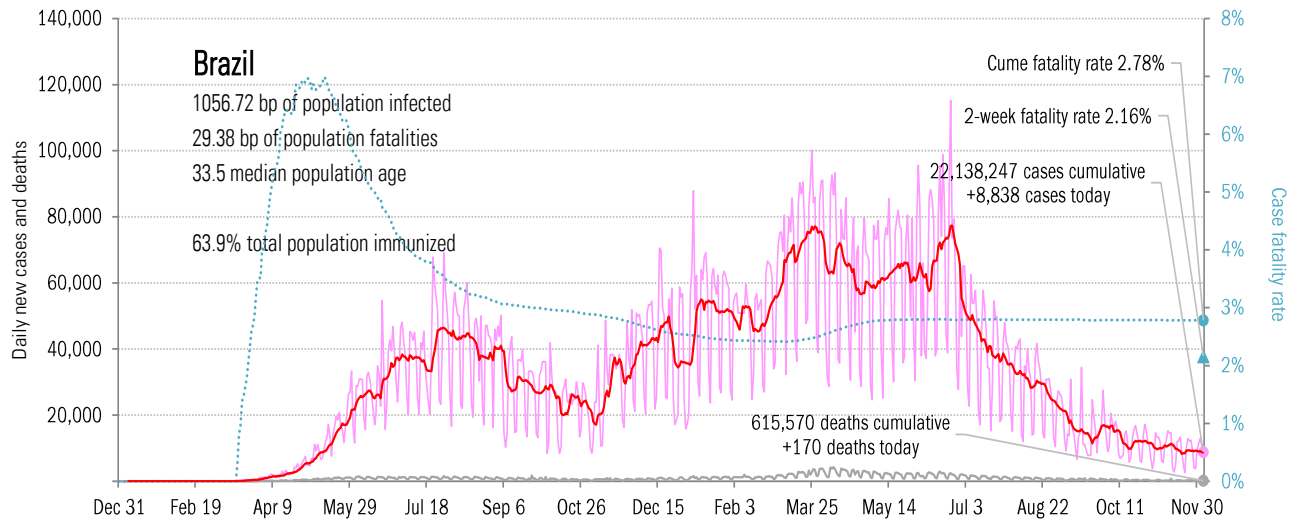
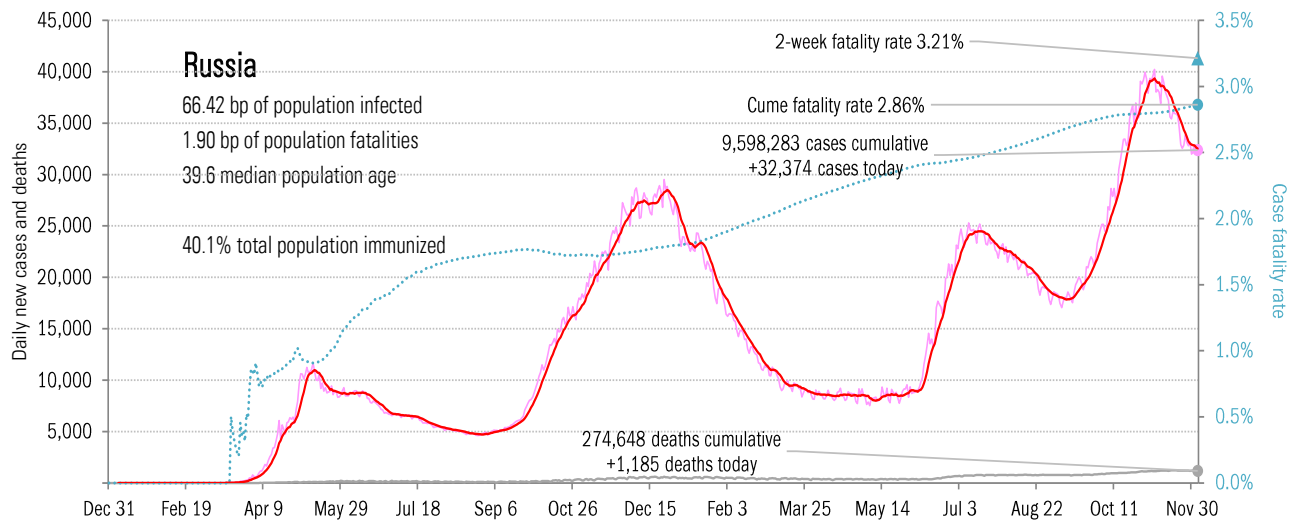
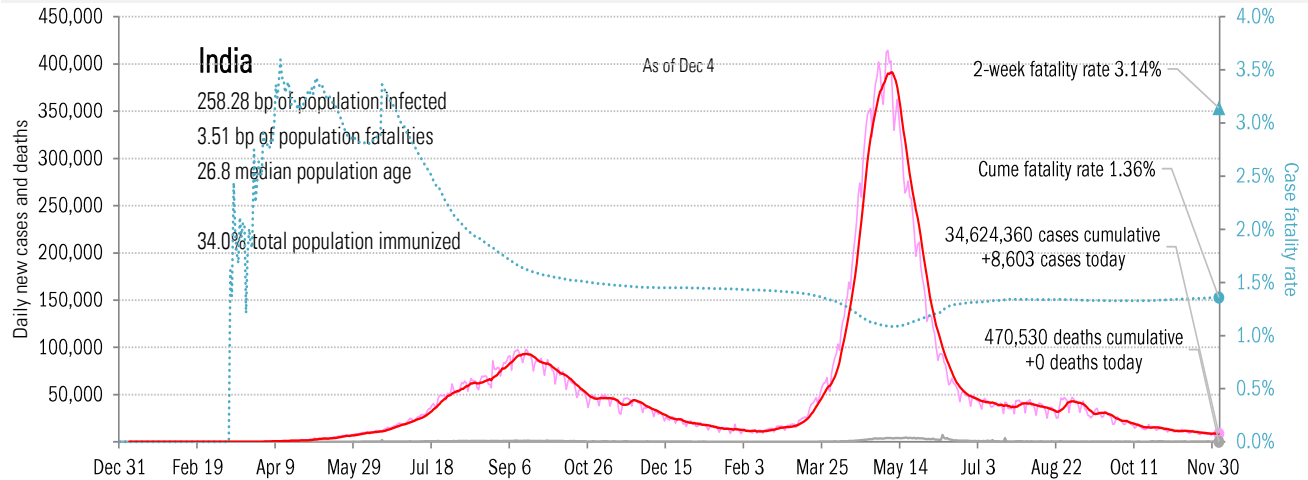
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

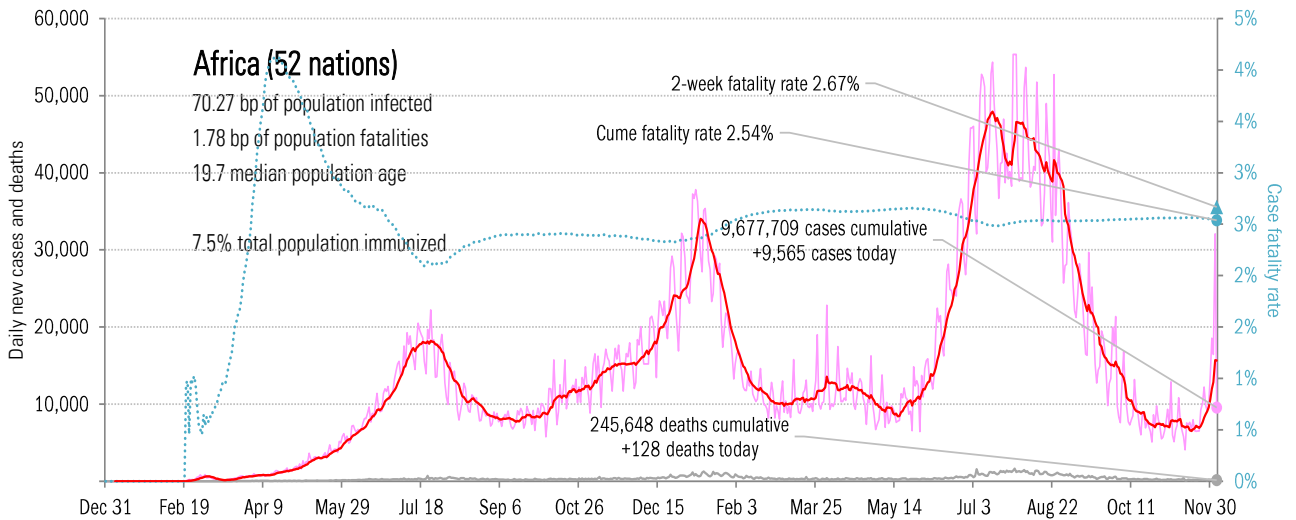
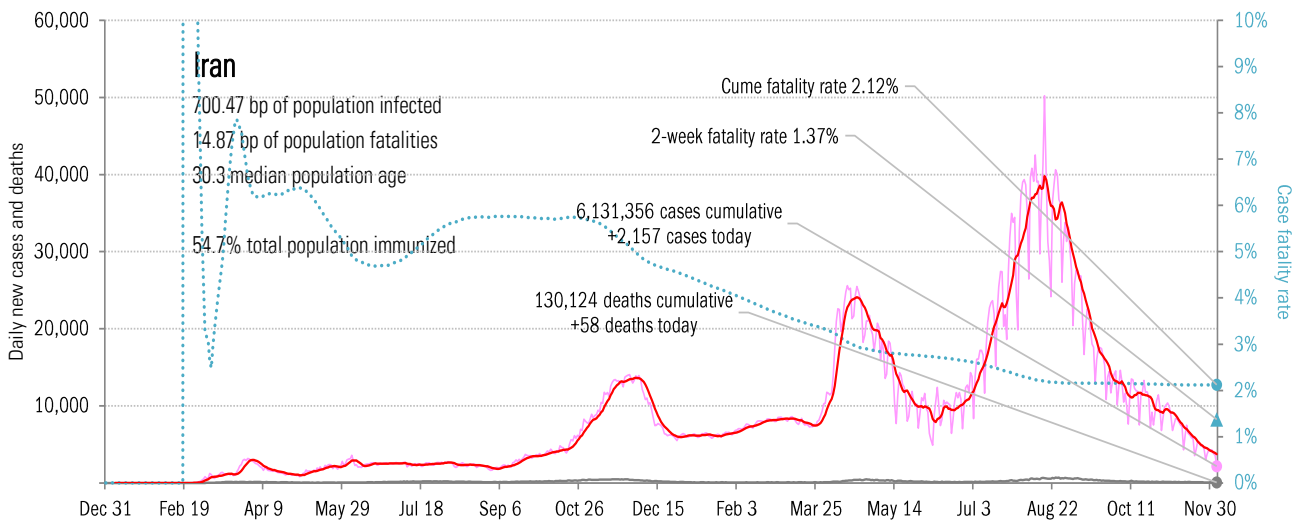
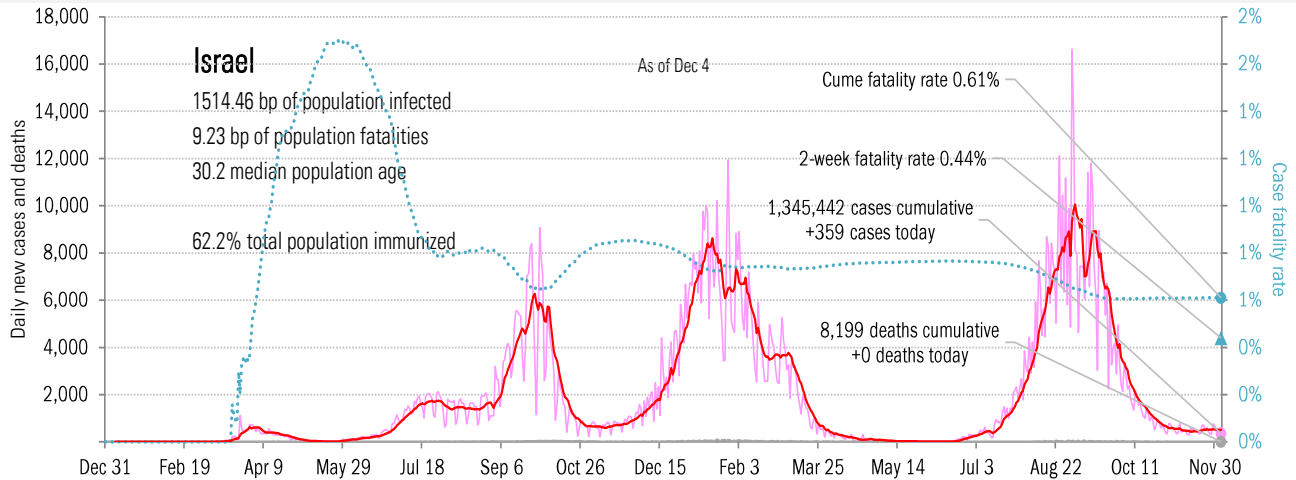
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

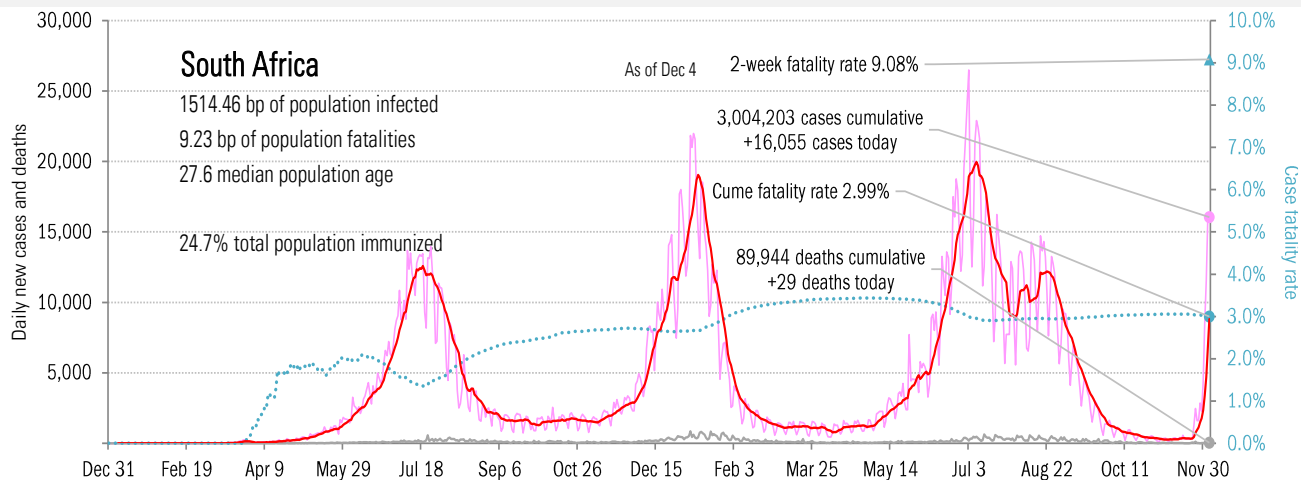
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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