

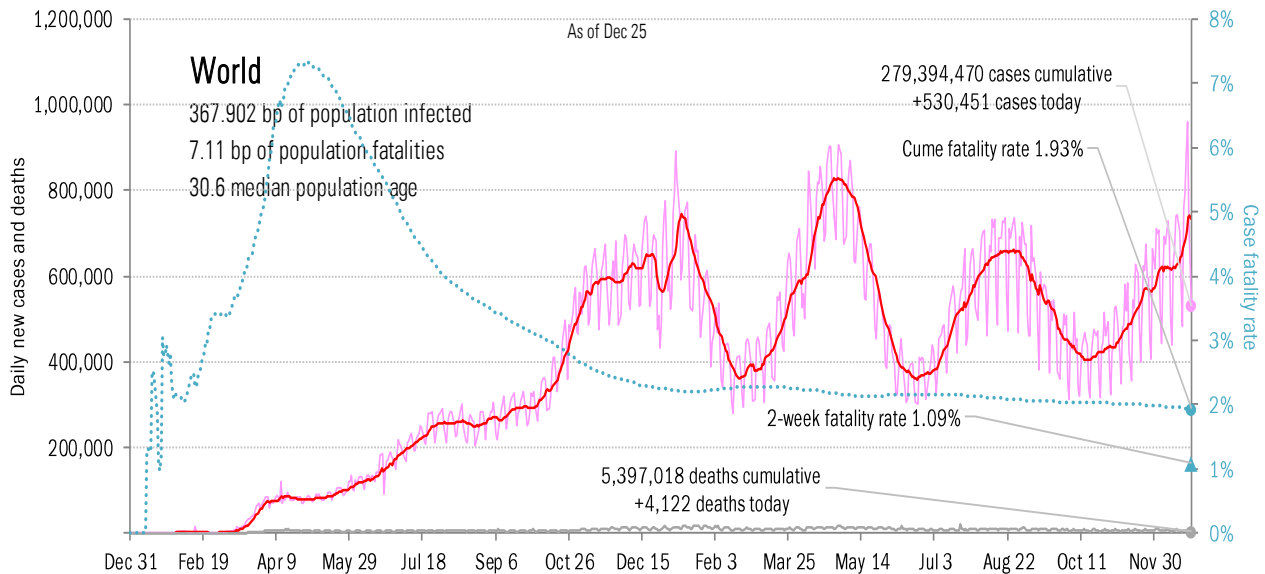
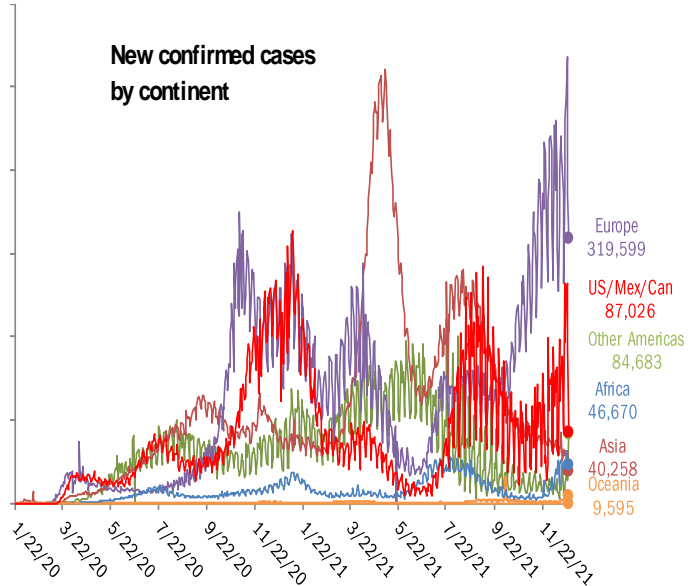
Data Insights: Covid-2019 Monitor

Sunday, December 26, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
France	104,611	Russia	955
United States	74,791	Czechia	404
Italy	54,787	Ukraine	294
Czechia	37,659	Poland	270
Russia	24,771	Vietnam	241
Germany	17,238	India	162
Vietnam	15,586	Italy	144
South Africa	14,828	Philippines	137
Ireland	13,765	United States	115
Netherlands	13,020	Mexico	89
371,056		2,811	
World	530,451	World	4,122
Top ten	70%	Top ten	68%



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

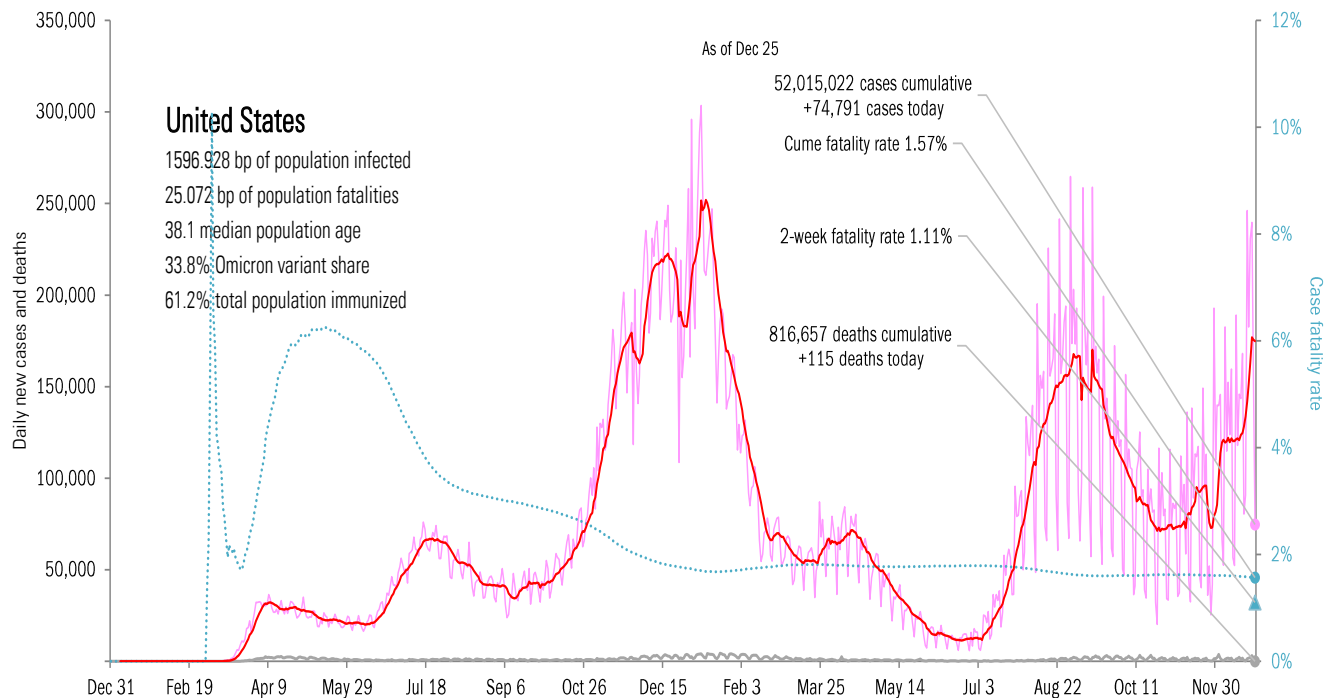
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use		
NJ	19,481		AZ	70		FL	205		CA	5,289,904		CA	76,126		TX	395,384		RI	89%		RI	94%
FL	17,838		TN	69		GA	182		TX	4,476,910		TX	75,322		CA	330,276		MD	84%		NM	90%
FR	17,254		FL	18		TX	182		FL	3,823,864		FL	62,471		FL	330,201		MN	83%		NH	89%
PA	9,856		AR	14		NY	173		NY	3,102,022		NY	58,937		NY	185,685		MA	82%		KY	88%
AZ	3,495		NJ	6		IL	131		IL	2,021,302		PA	36,050		GA	167,536		WA	82%		MO	86%
AL	2,449		HI	4		NJ	109		PA	1,947,649		GA	31,209		CH	150,434		ND	81%		CK	86%
H	1,591		FR	3		CO	84		CH	1,910,991		IL	29,868		PA	139,511		CT	80%		NE	86%
DE	1,554		AK	0		LA	71		GA	1,733,600		NJ	28,854		IL	122,014		AZ	80%		IN	86%
AR	1,024		AL	0		CA	67		MI	1,645,578		CH	28,720		KY	119,058		PA	80%		MI	85%
ND	167		AS	0		MI	49		NC	1,607,378		MI	28,345		MI	114,961		MI	80%		MN	85%
74,709			184			1,253			27,559,198			455,902			2,055,060							
All states	74,791			184			1,449		All states	52,015,022			816,657			3,714,237		All states	70%			67%
Top ten	100%			100%			86%		Top ten	53%			56%			55%		Median	73%			77%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NY	-31,138	CH	-443	MA	-41	MP	+30 bp
CA	-20,458	PA	-90	NV	-41	DC	+20 bp
CH	-14,414	FL	-88	CT	-35	ME	+20 bp
MA	-10,997	CA	-72	DE	-31	WY	+10 bp
GA	-9,495	WI	-59	MN	-24	ND	+10 bp



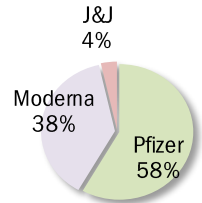
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Because of the Christmas holiday, the CDC did not update its vaccine database.

Administered	Cumulative	One dose	% Pop	Immune	% pop	New immune today
Doses	513,377,812					+1.310 million
Boosters	65,466,868					
Total population	247,490,310	74%		209,872,215	63%	+0.076 million
Age 12 to 17	15,052,720	63%		12,685,111	53%	+0.017 million
Age 18 to 64	167,576,818	82%		142,939,633	70%	+0.045 million
Age 65 and over	57,498,823	100%		49,552,985	90%	+0.146 million

Country	Full immunity	Partial immunity
UK	69.2%	72.8%
France	72.6%	77.9%
Spain	80.9%	84.3%
Germany	70.1%	73.1%
Italy	73.8%	79.7%
Australia	76.3%	79.1%
Israel	63.1%	69.9%
Canada	77.1%	83.1%
Japan	78.1%	79.5%
Africa	8.8%	14.4%
India	40.5%	59.8%
Brazil	66.7%	77.5%
China	82.6%	84.8%



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

Every American >18 immunized in **254 days** by Sep 2, 2022
 74.5% of population >18 immunized
 18.2% previously tested positive
92.8% vs 60% adult herd immunity

Global data differs due to sources, timing

AK
64.7%
56.1%

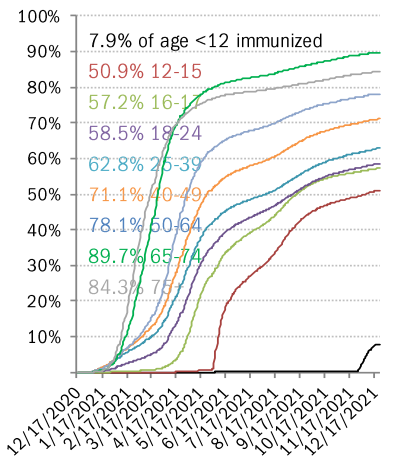
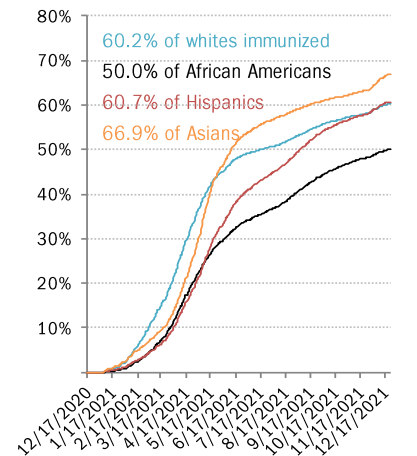
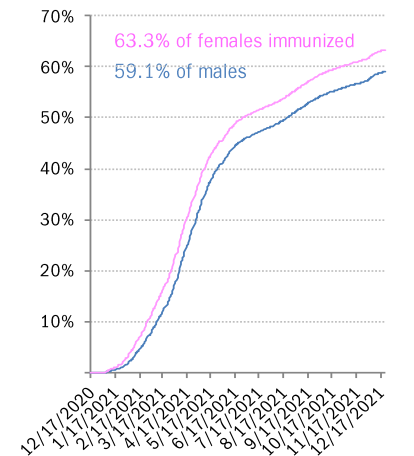
WI
67.8%
61.7%

As of Dec 23

ME
85.2%
75.5%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
75.2%	52.0%	61.7%	61.9%	71.0%	71.6%	63.1%	82.9%	88.7%	95.0%	
67.6%	46.1%	53.8%	52.3%	65.1%	63.9%	56.5%	71.3%	76.9%	66.9%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
73.7%	68.9%	55.5%	70.3%	64.5%	57.6%	60.1%	77.3%	82.8%	89.8%	
66.2%	56.1%	47.3%	56.7%	58.7%	51.8%	55.0%	63.5%	70.1%	74.2%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
82.0%	66.9%	74.0%	66.0%	62.0%	62.1%	61.6%	78.4%	79.8%	87.8%	87.8%
65.7%	58.4%	65.8%	59.5%	52.8%	54.0%	54.8%	67.6%	70.1%	74.3%	75.9%
AZ	NM	KS	AR	TN	NC	SC	DC	DE		
66.7%	80.2%	68.7%	62.3%	58.4%	75.4%	62.3%	87.3%	76.1%		
56.7%	65.9%	56.6%	50.9%	51.1%	56.4%	52.9%	67.2%	63.9%		
OK	LA	MS	AL	GA						
65.4%	57.0%	55.2%	58.1%	60.7%						
53.2%	50.0%	48.0%	47.3%	50.6%						
TX										
66.3%										
56.6%										
HI							FL		PR	
86.1%							74.0%		88.3%	
63.2%							63.0%		76.7%	

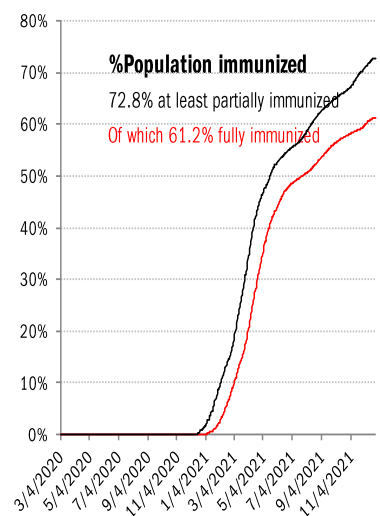
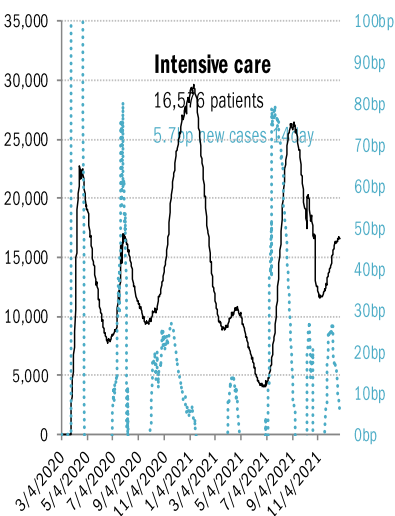
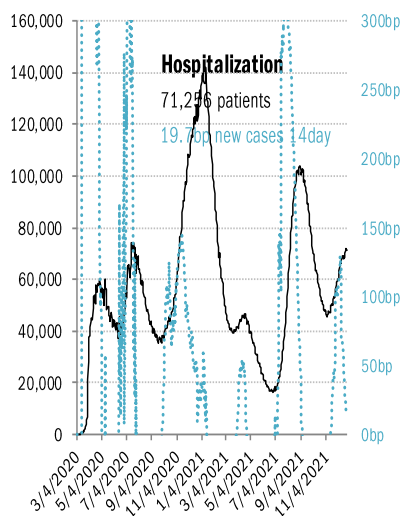
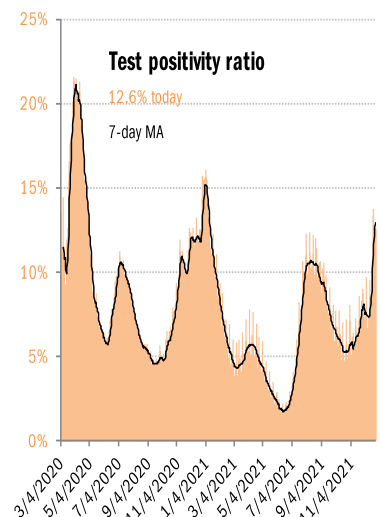
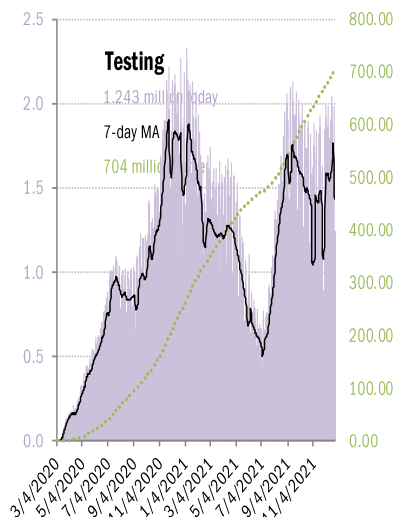
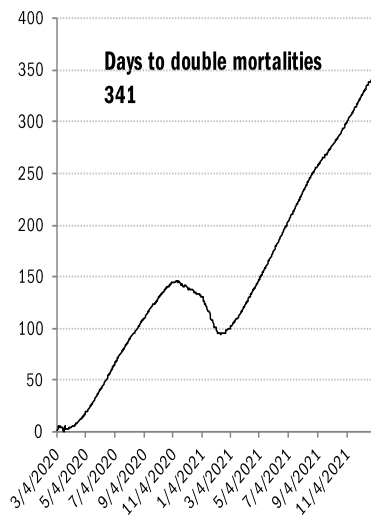
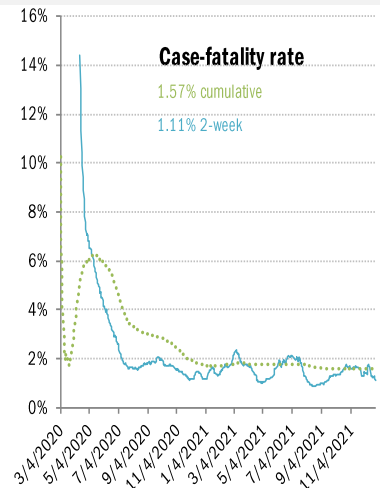
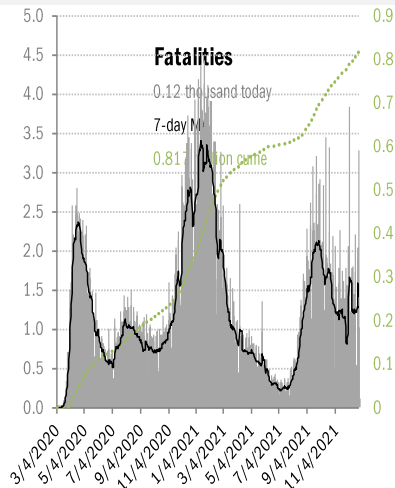
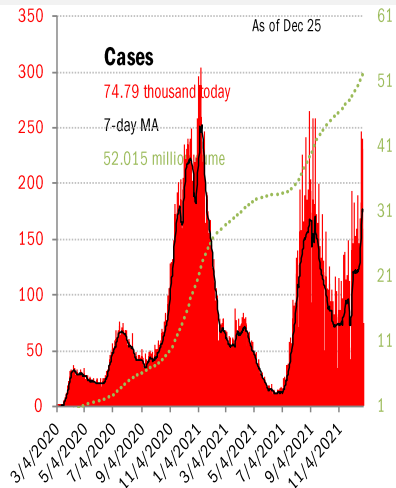
The demographics of US vaccination



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

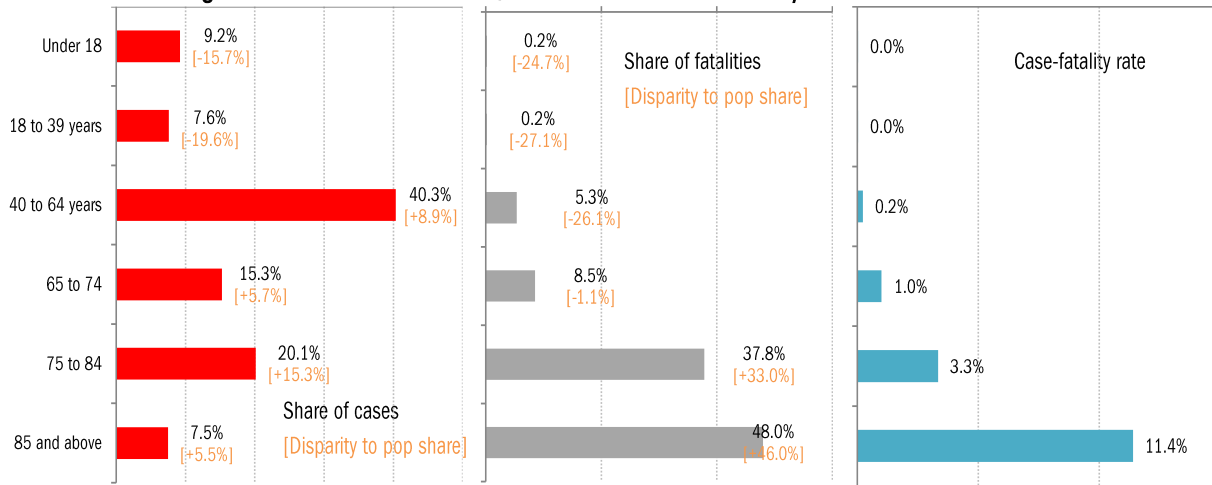
US deep-dive

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

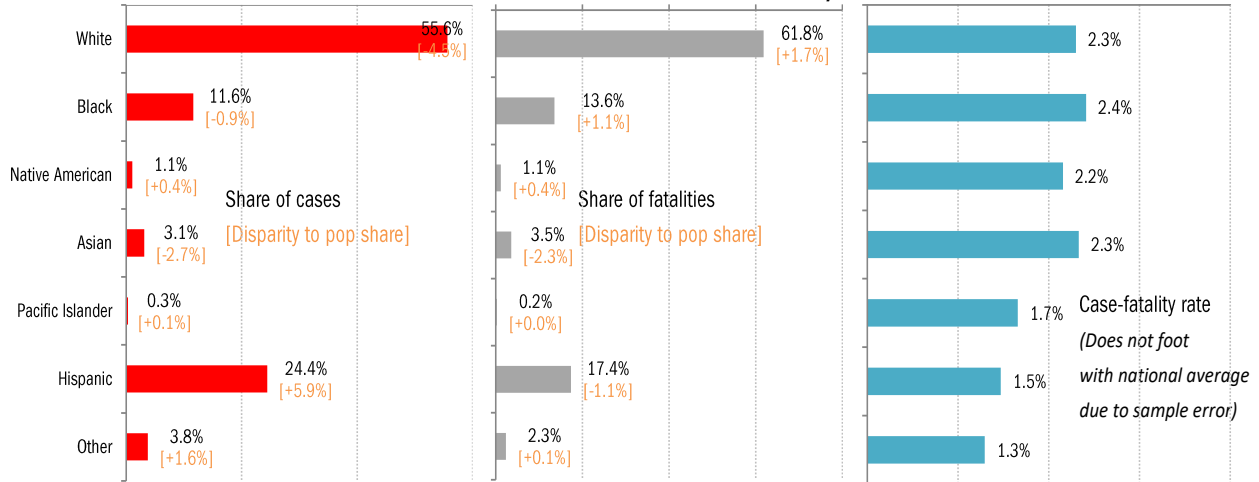


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

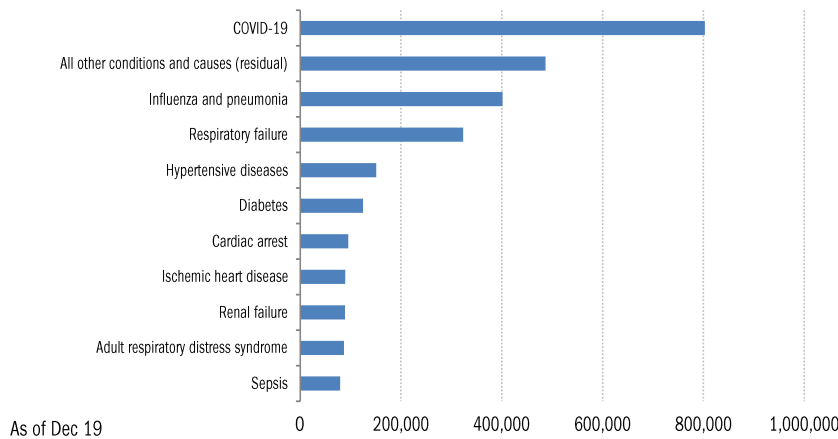


Racial distribution of US cases, fatalities and case-fatality rates



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

[Another Christmas of Death and Distress in America's I.C.U.s](#)

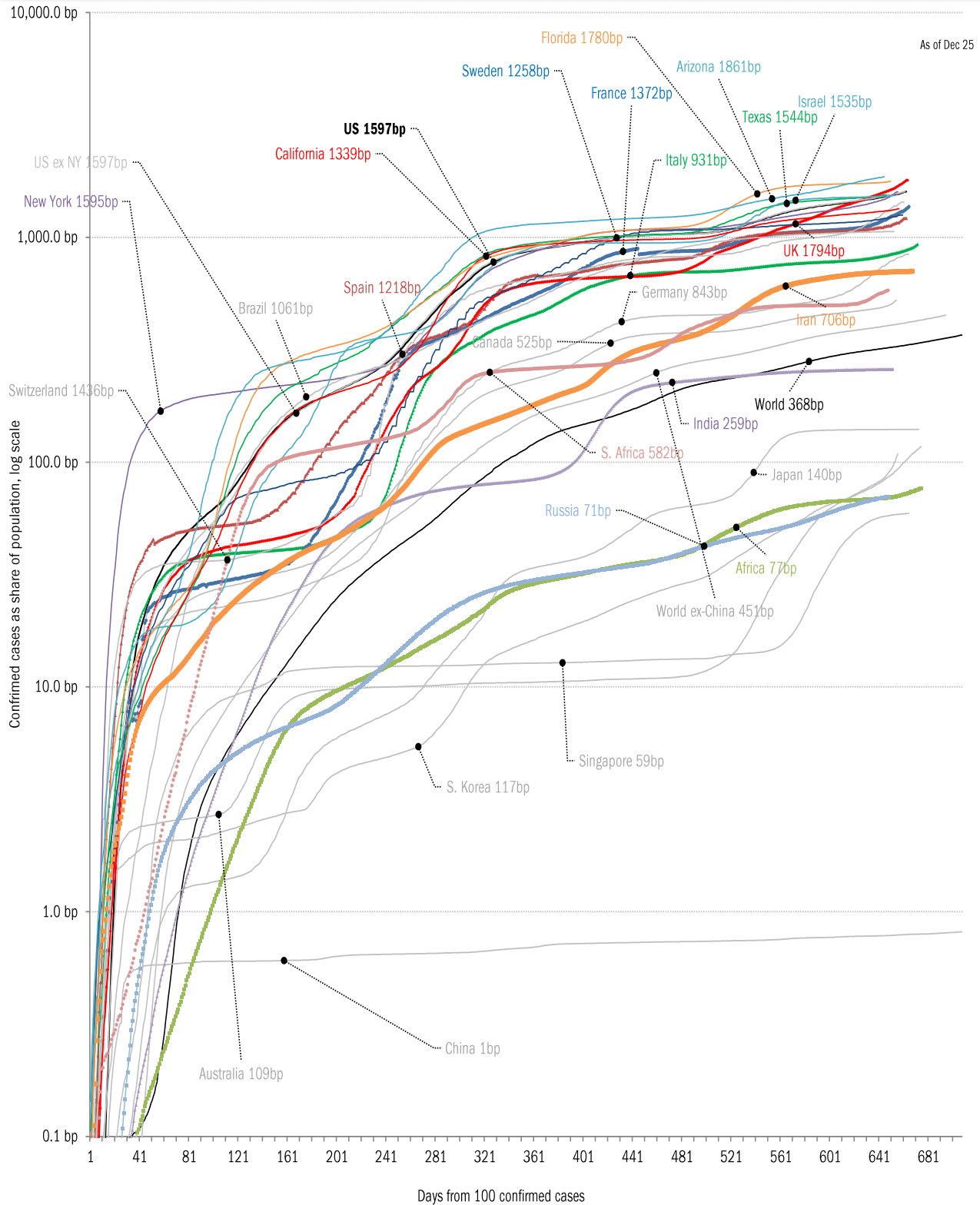
Sarah Bahr and Mike Baker
New York Times
December 25, 2021

Meme of the day



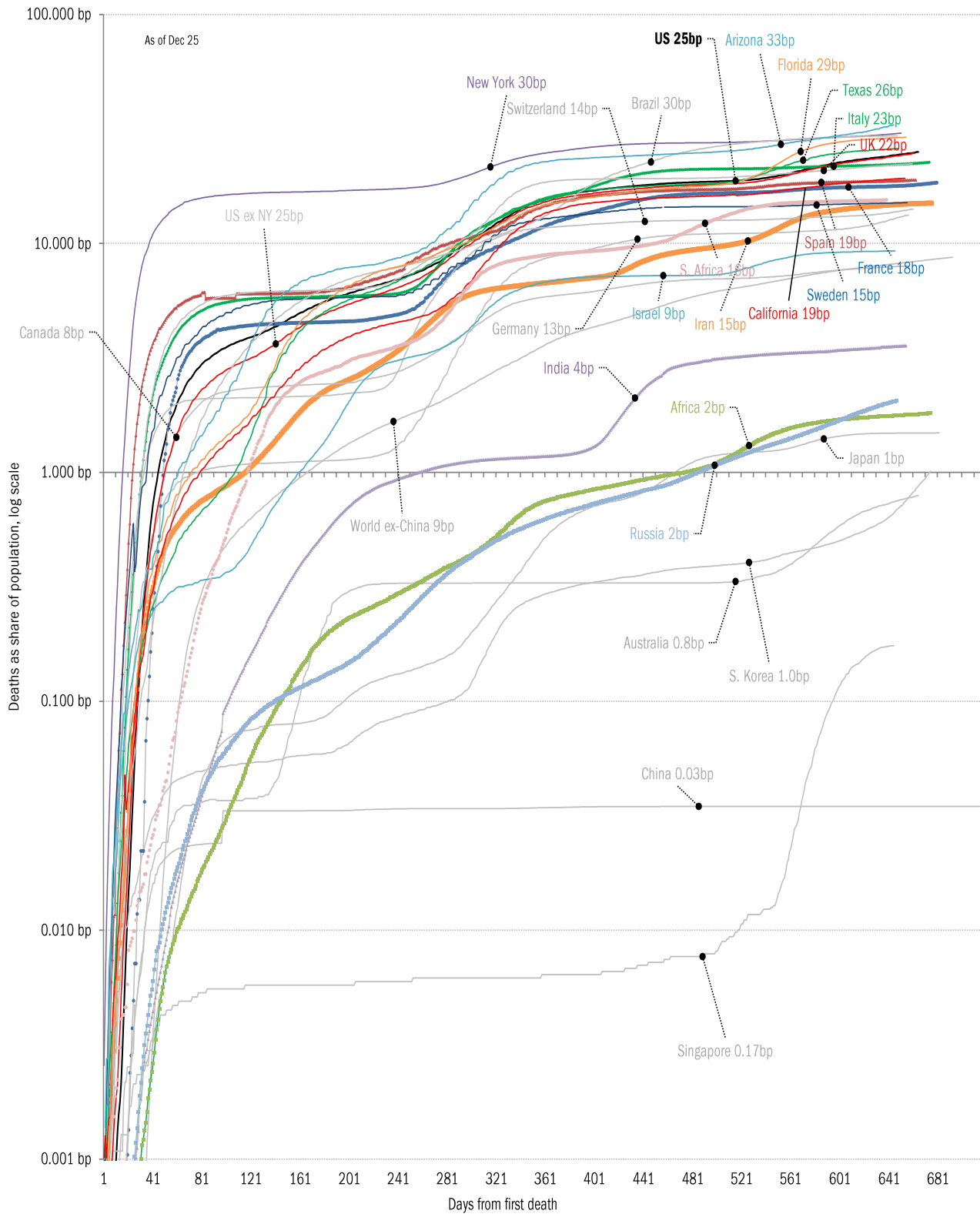
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

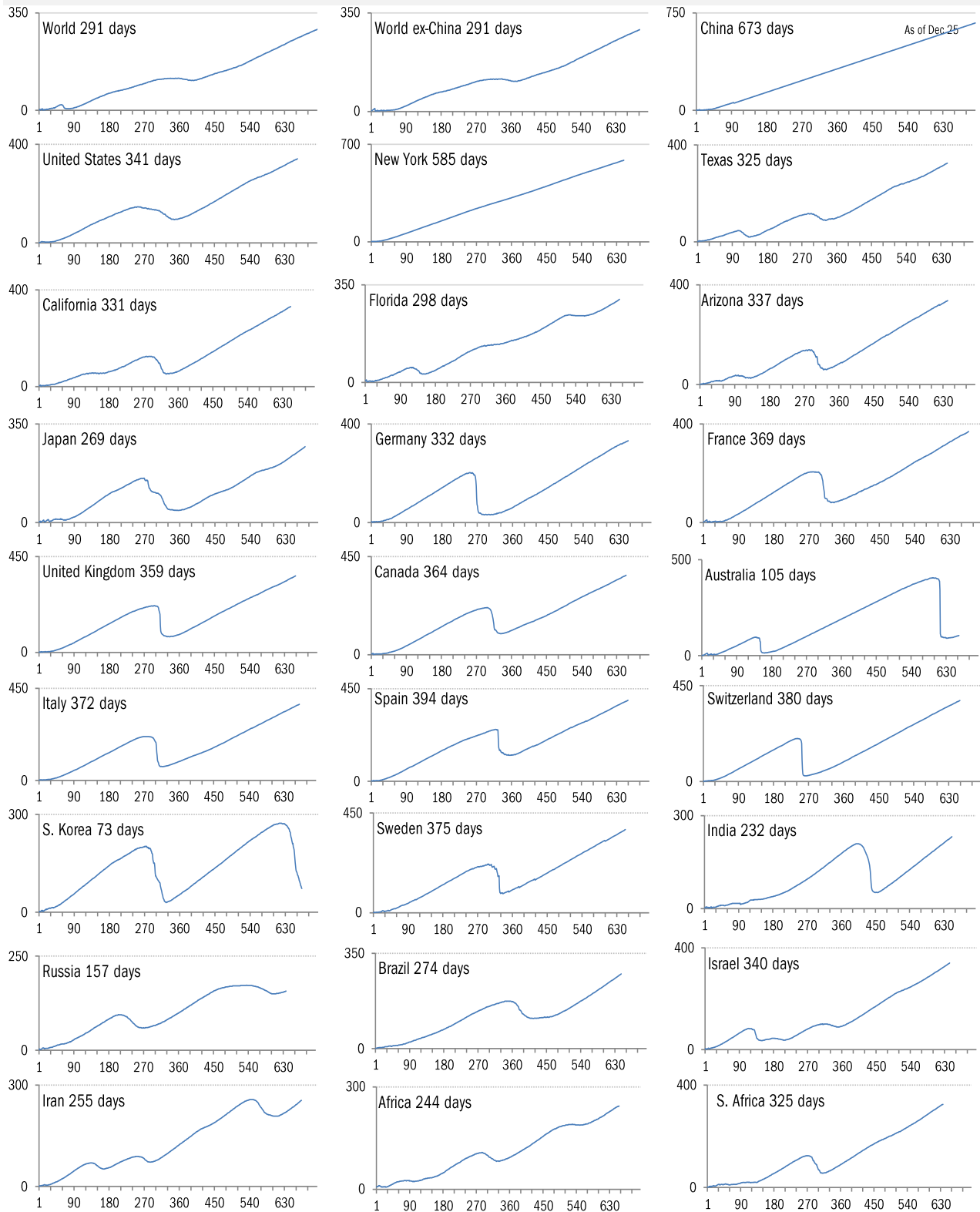


Source: [Johns Hopkins](#), TrendMacro calculations

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

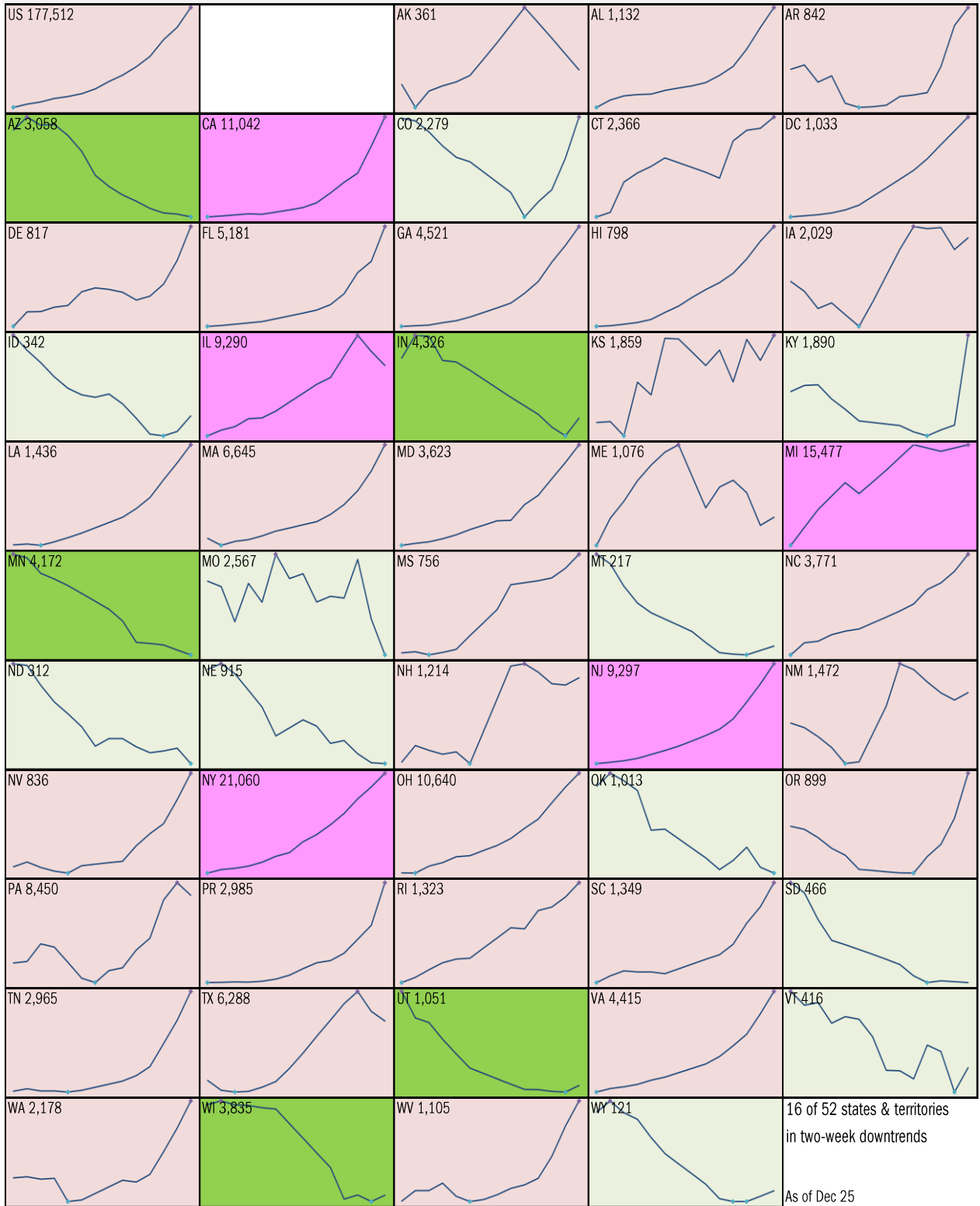
Vertical: days to double deaths Horizontal: days from first death

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

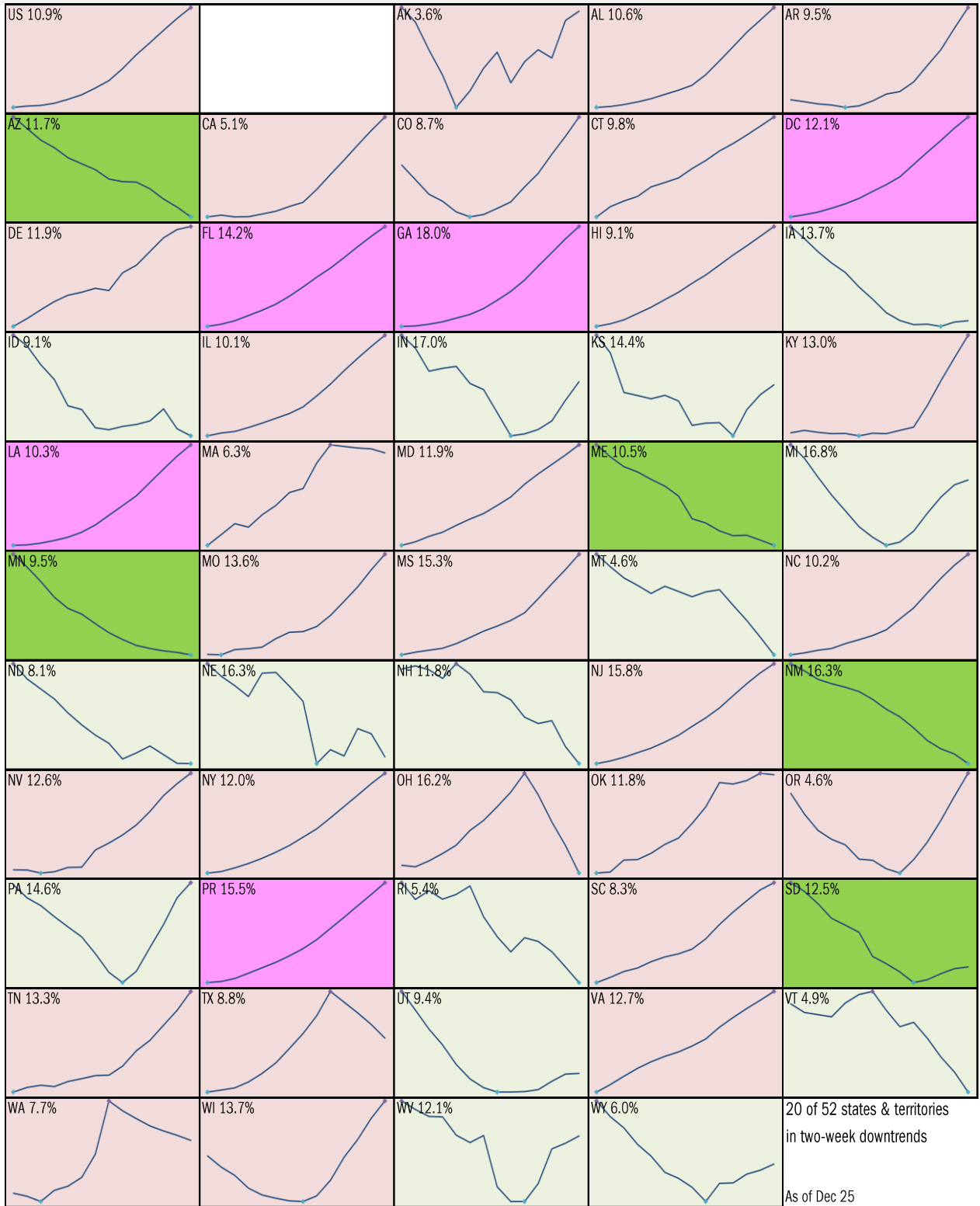


Source: [Johns Hopkins](#), TrendMacro calculations

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

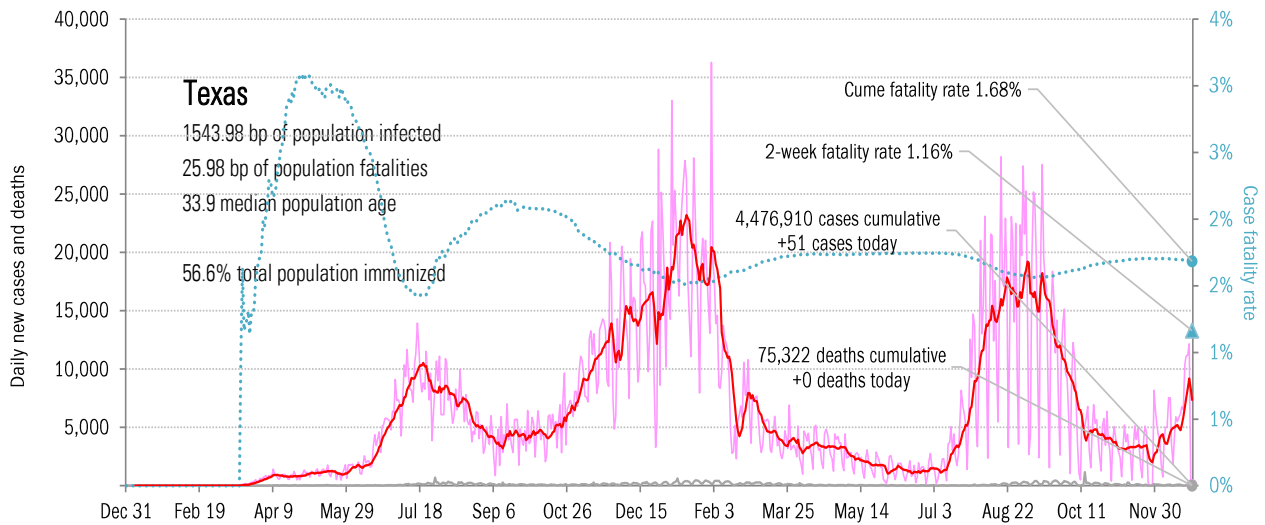
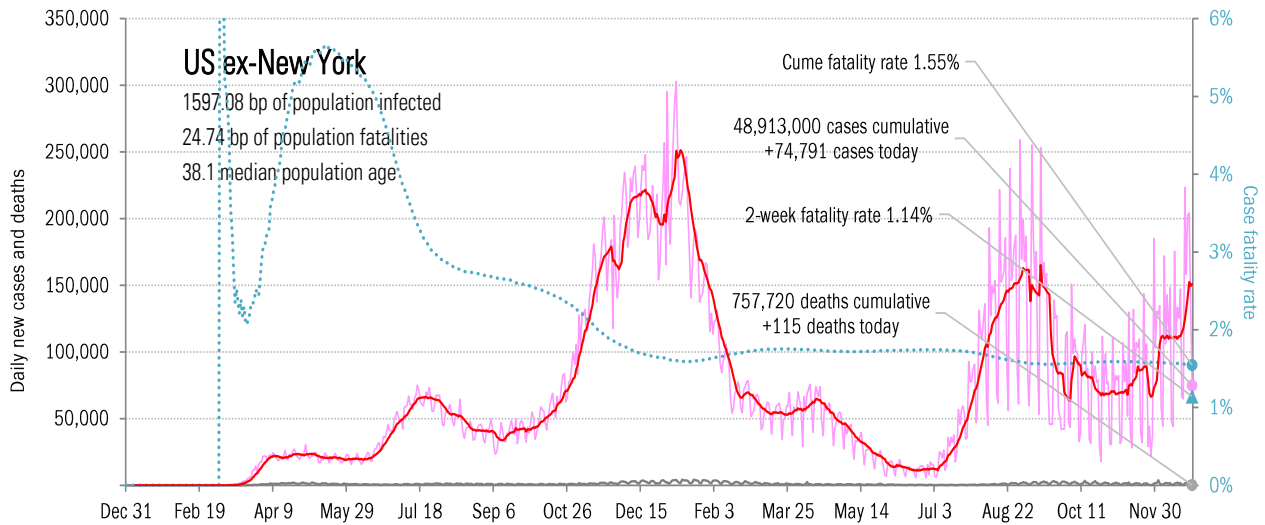
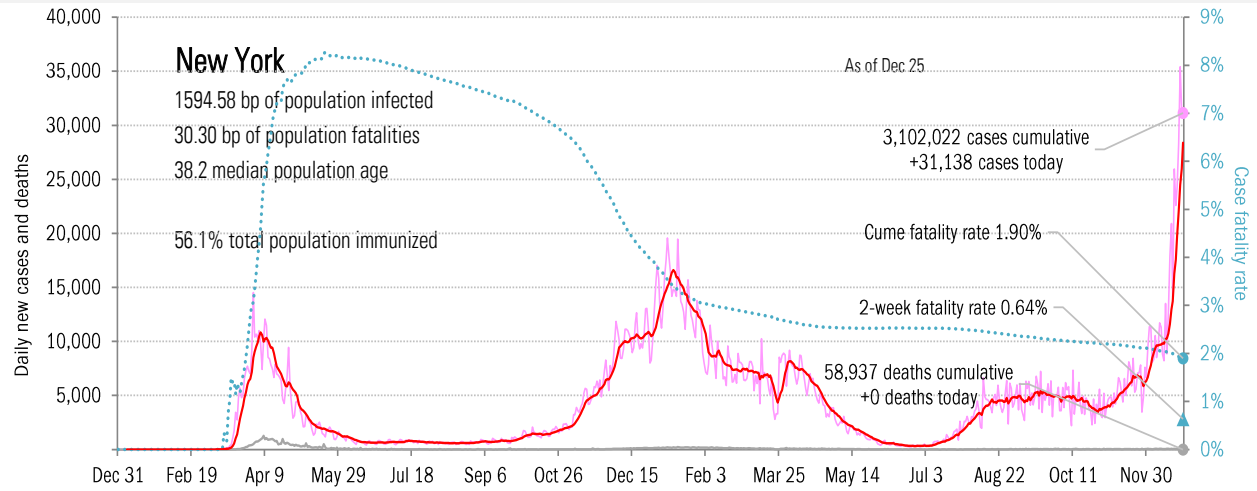
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

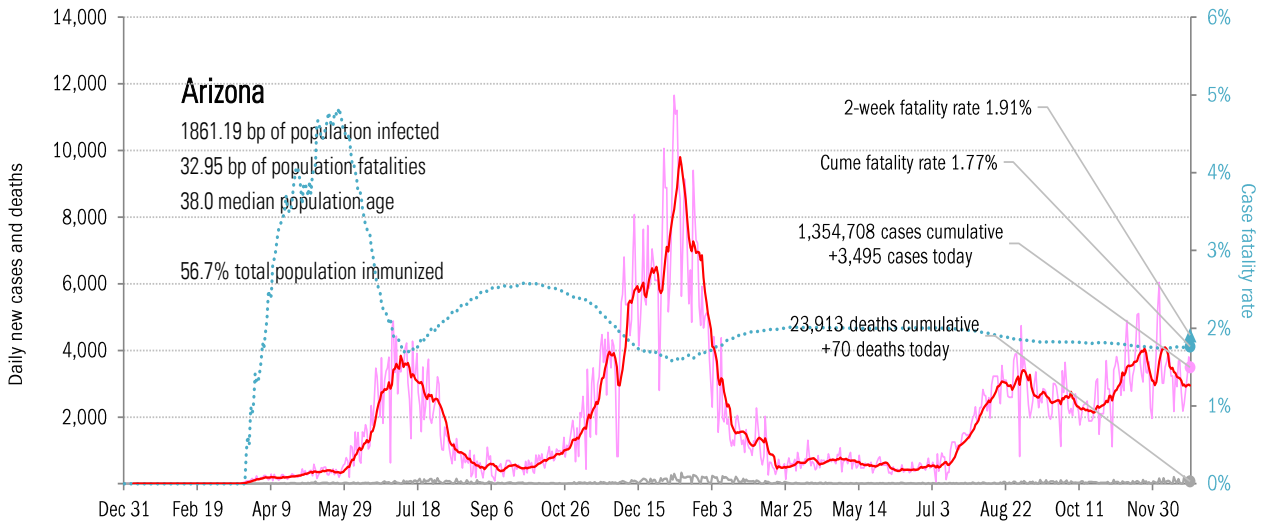
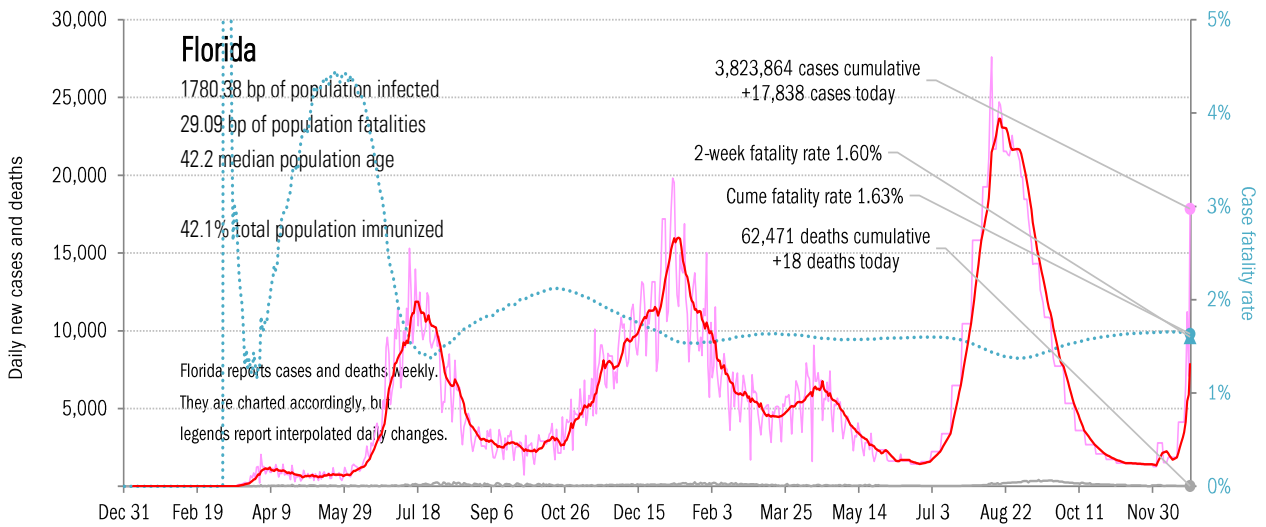
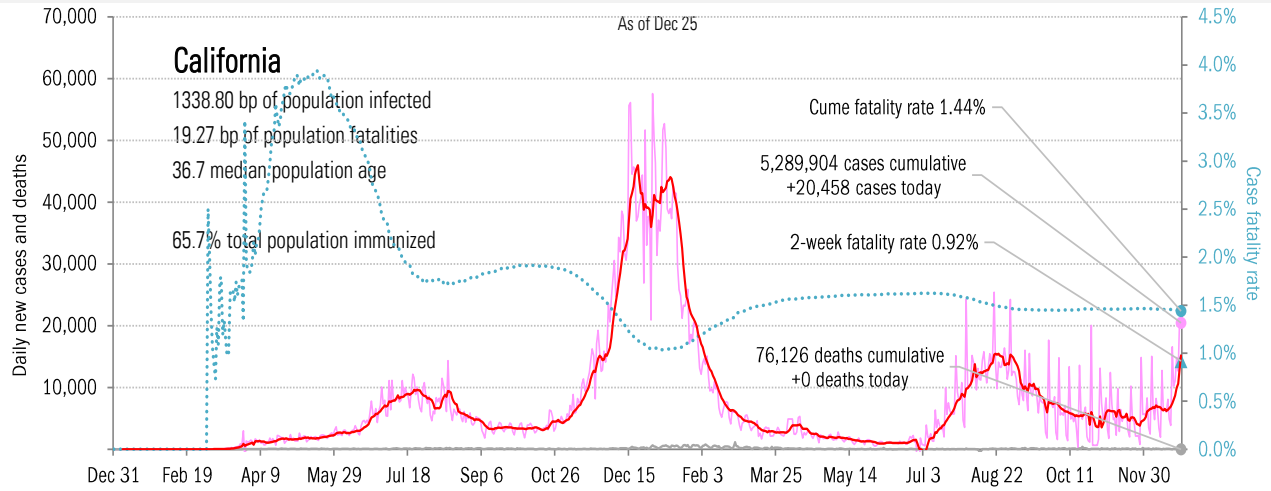
Cases: 7-day average and daily Deaths: Daily



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

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

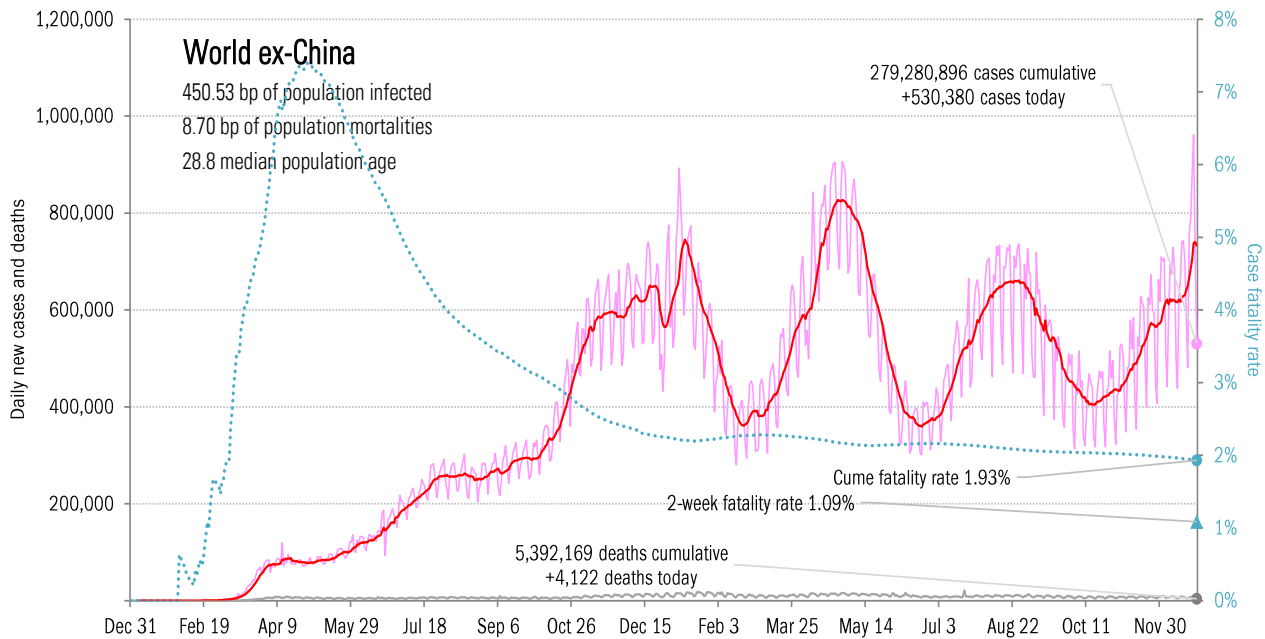
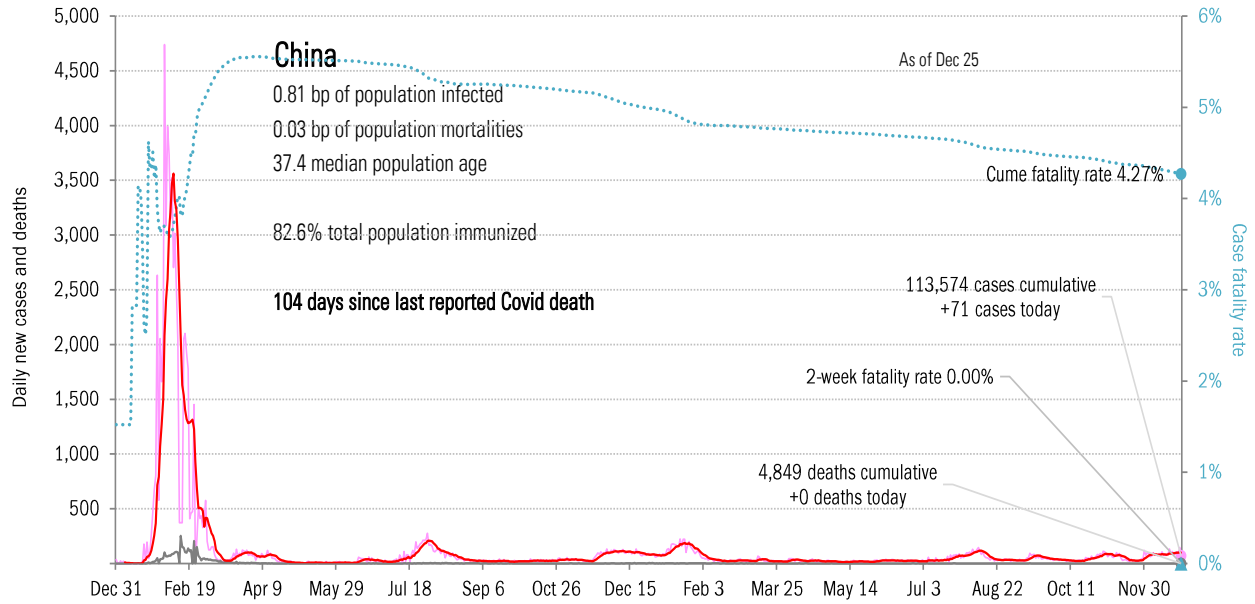
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

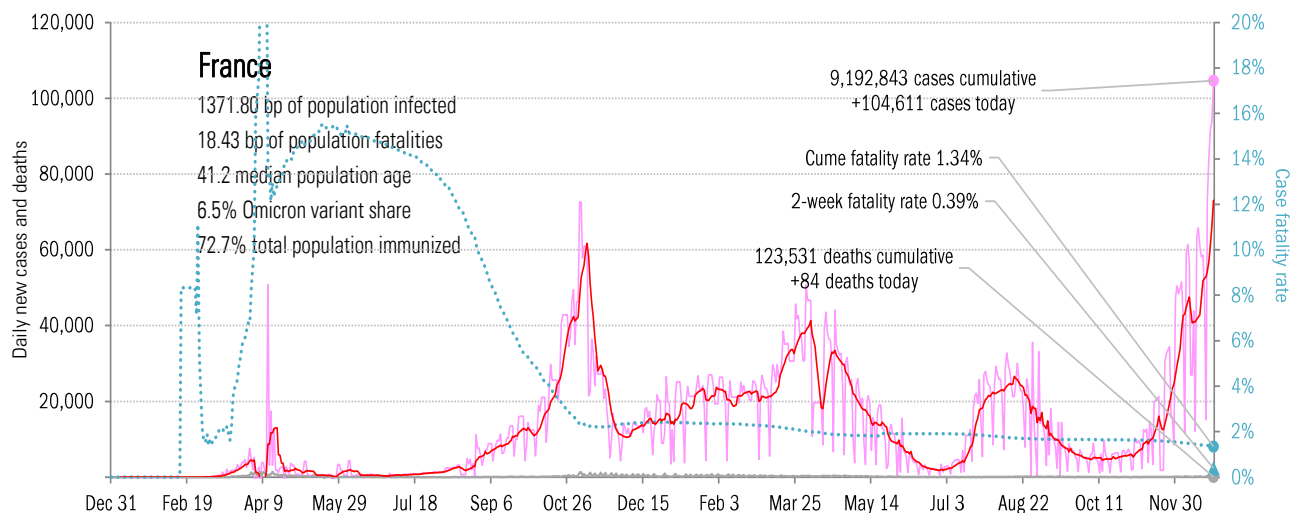
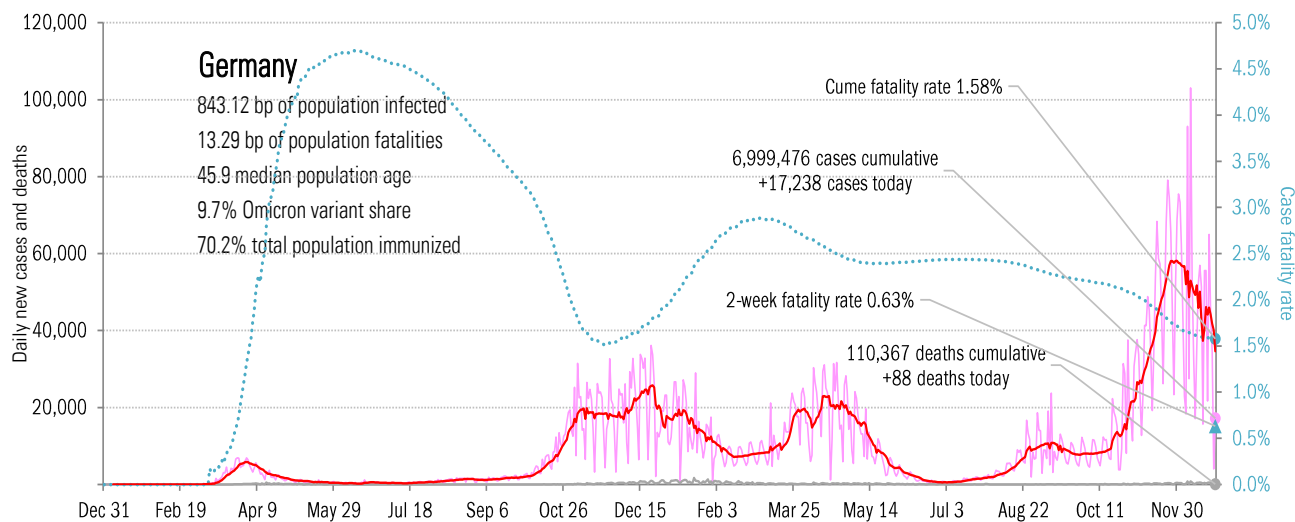
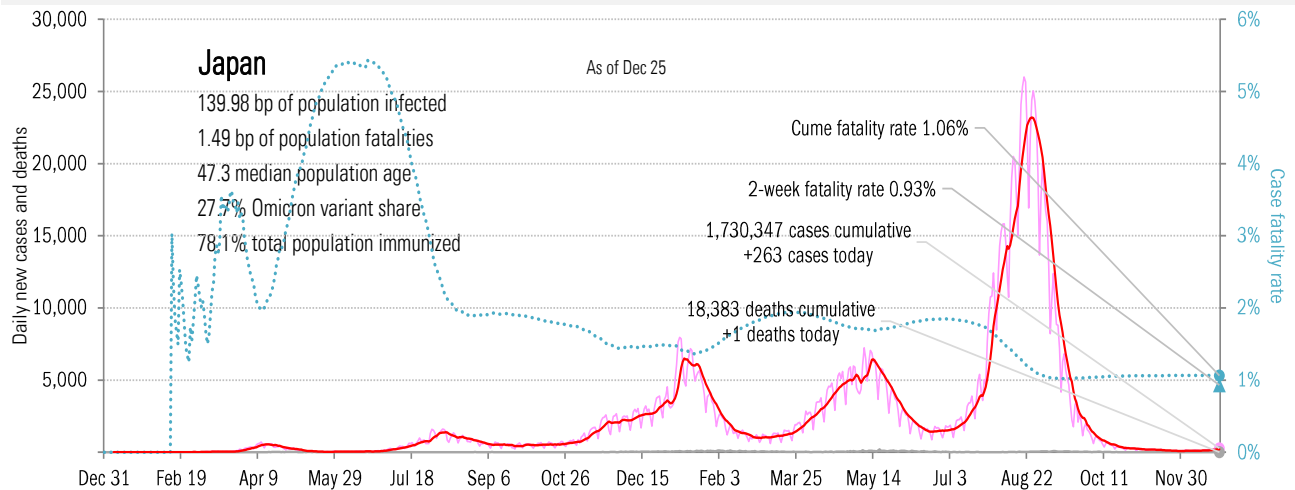
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

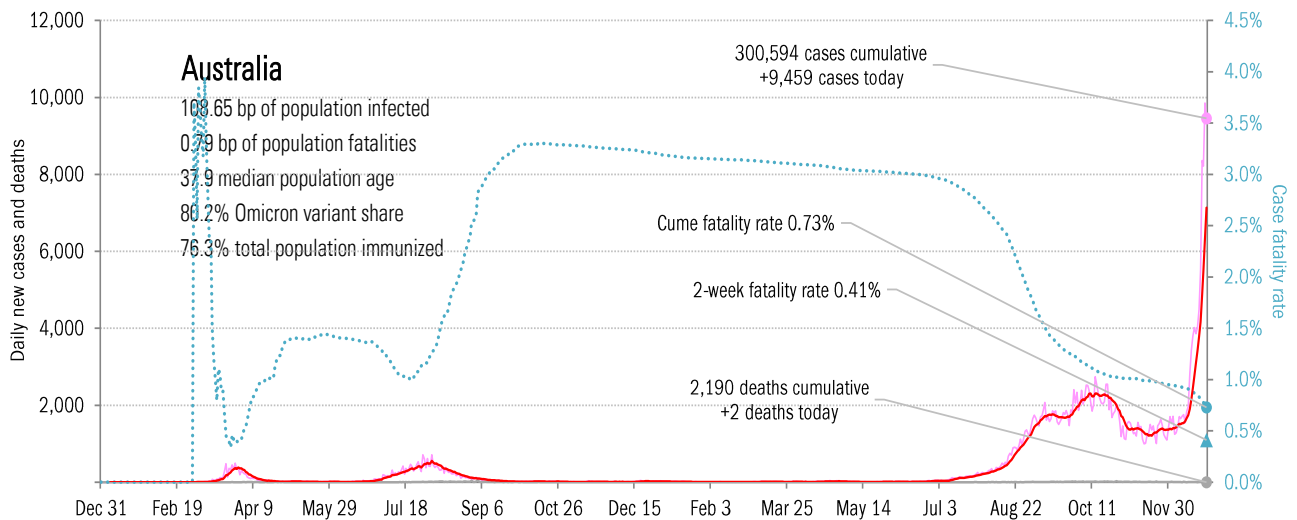
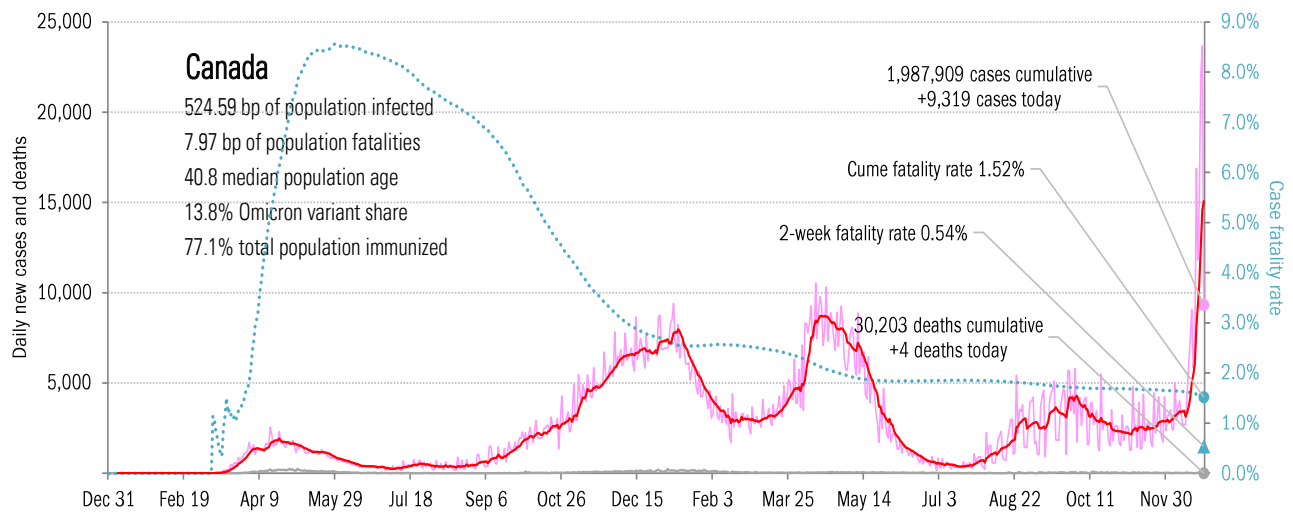
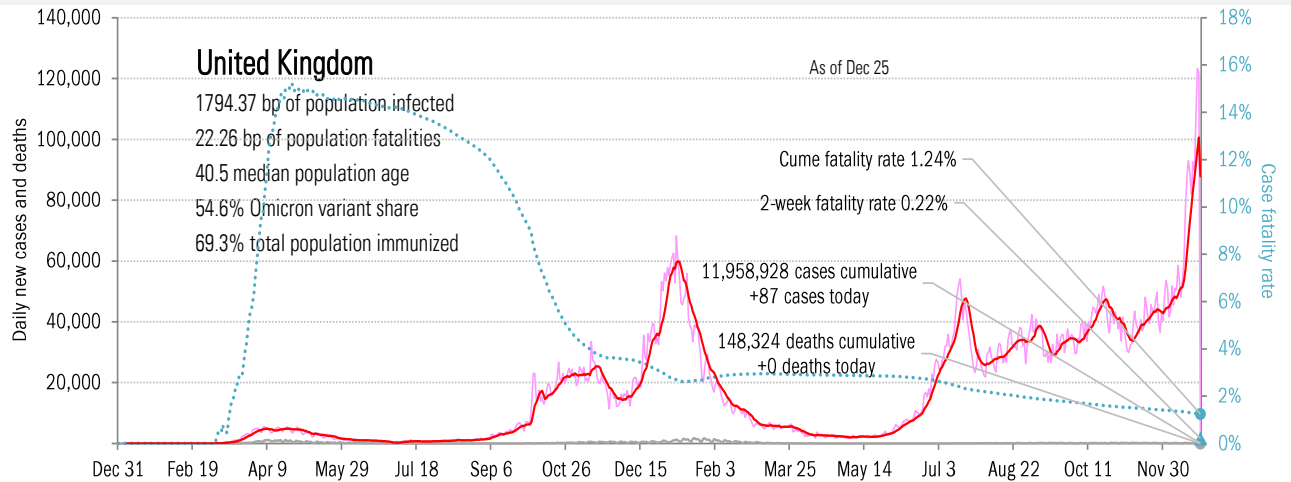
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

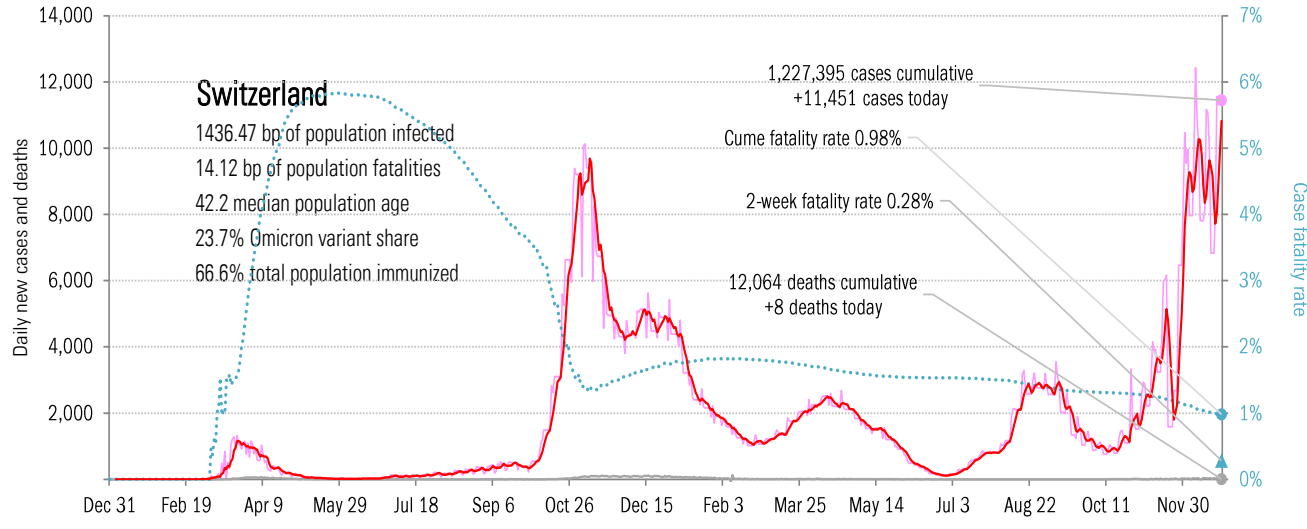
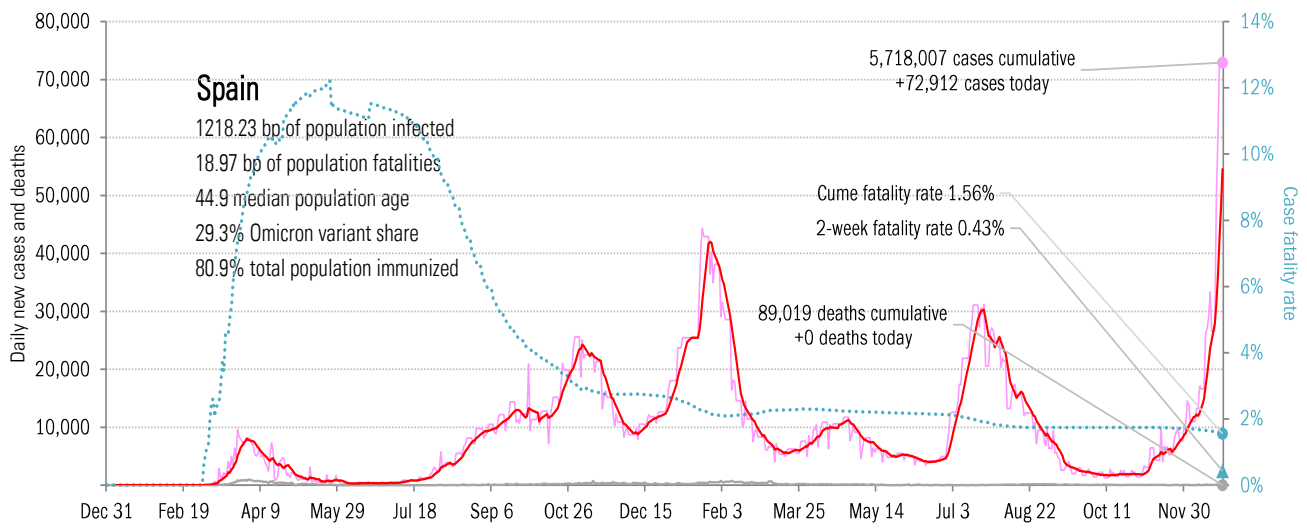
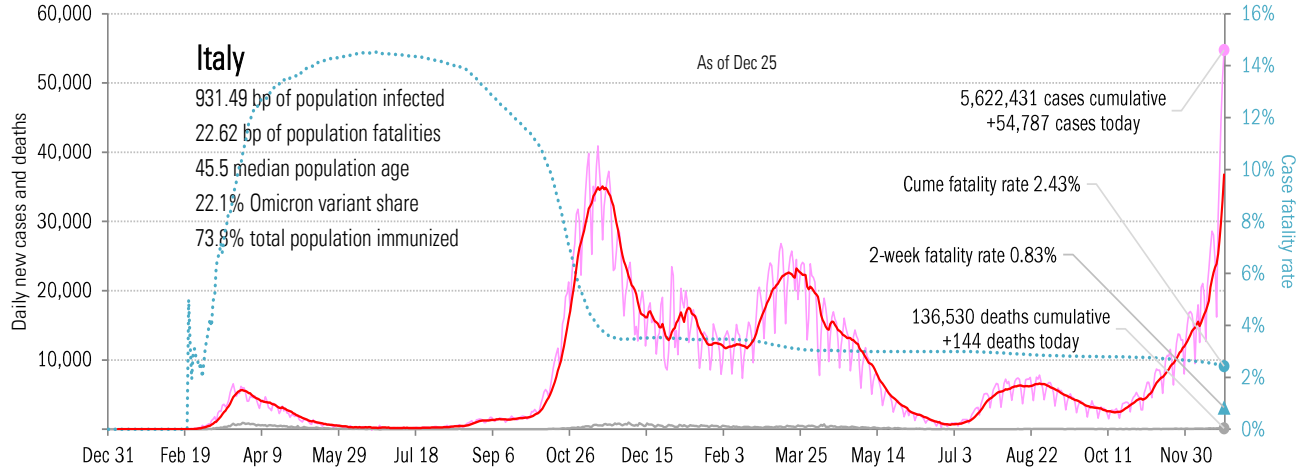
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

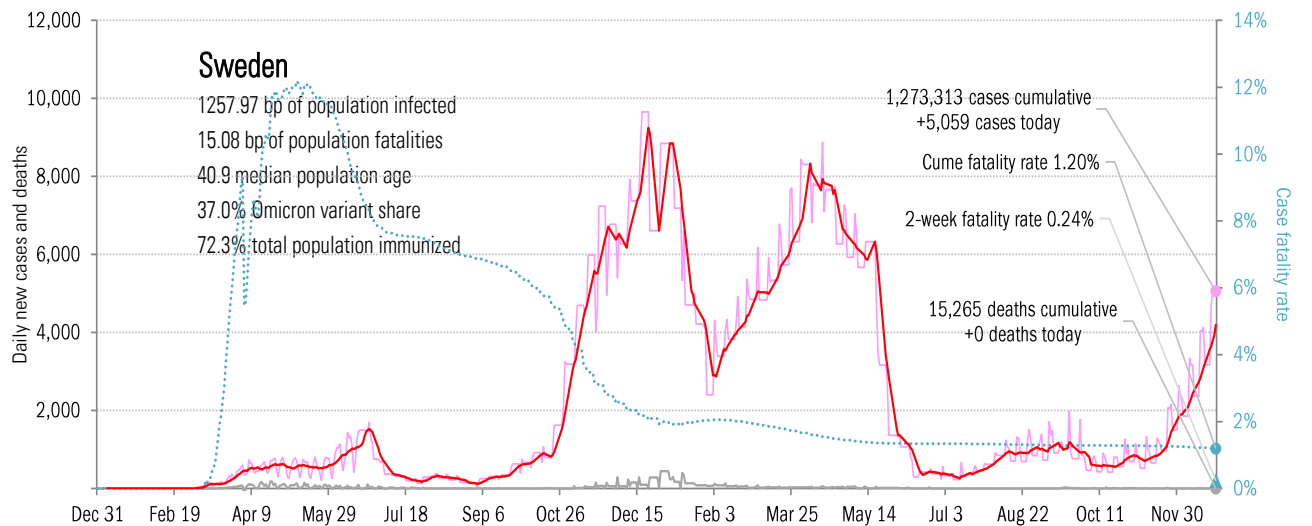
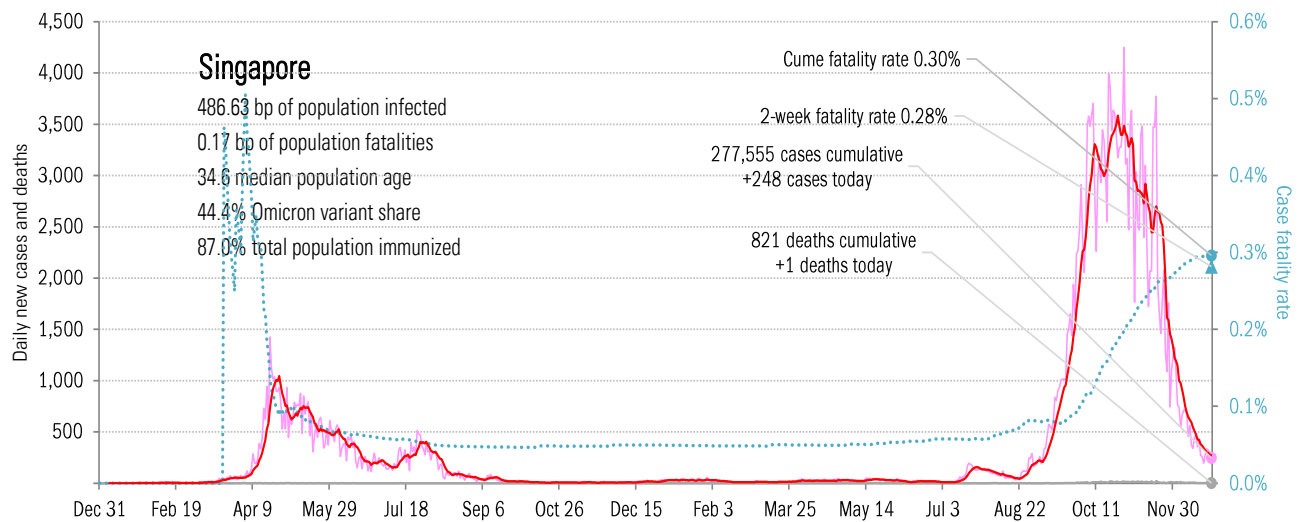
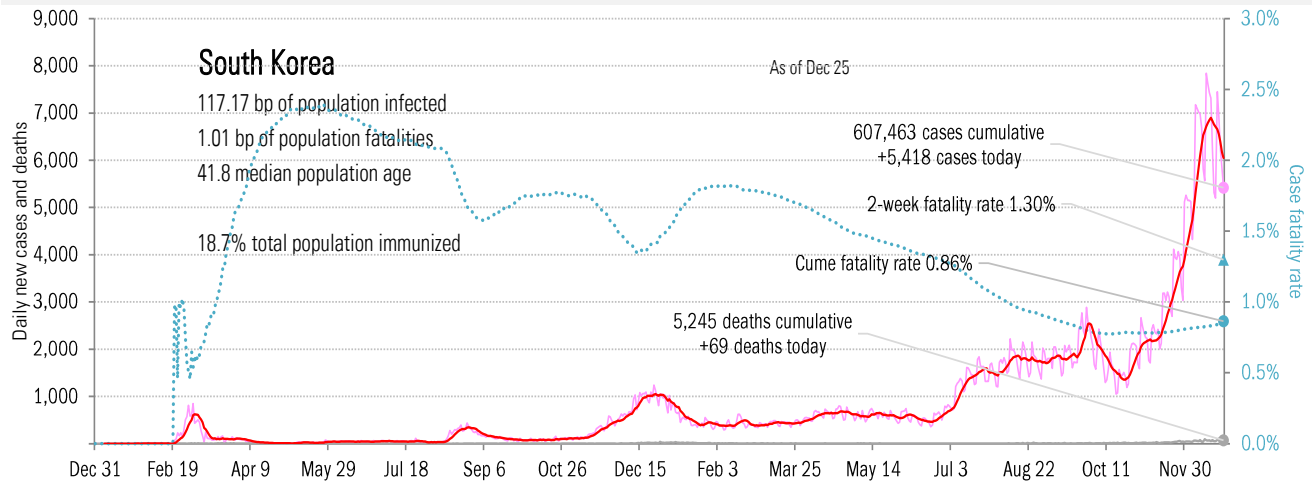
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

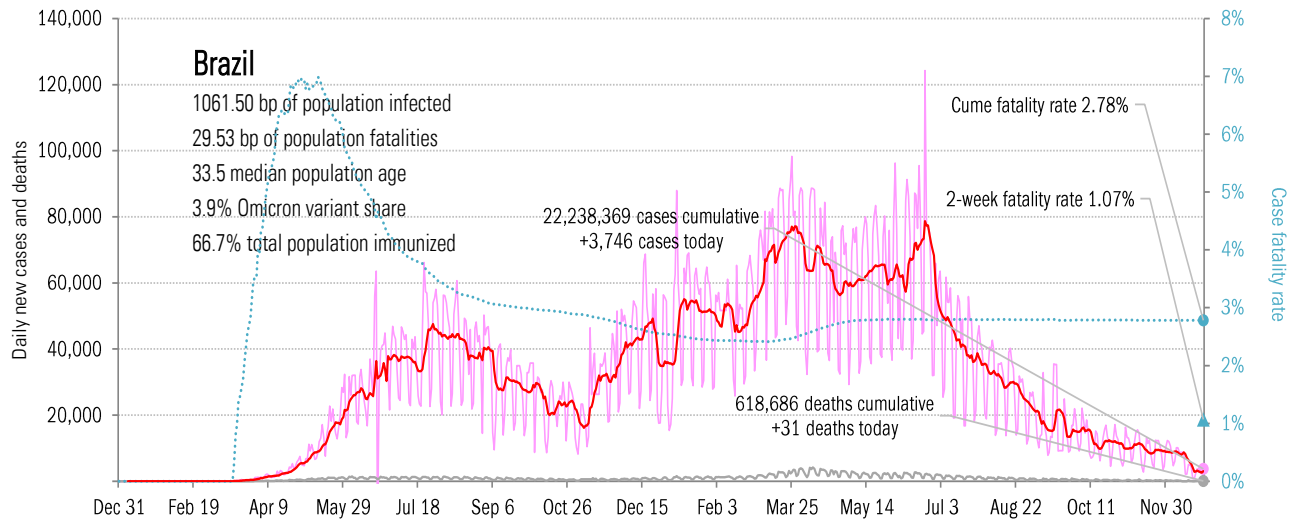
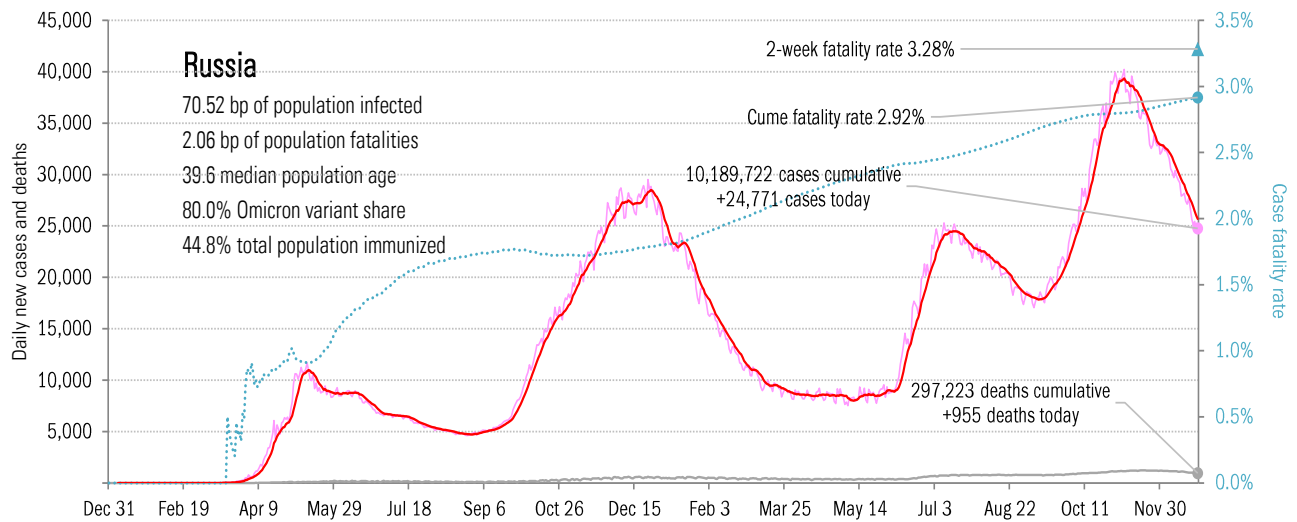
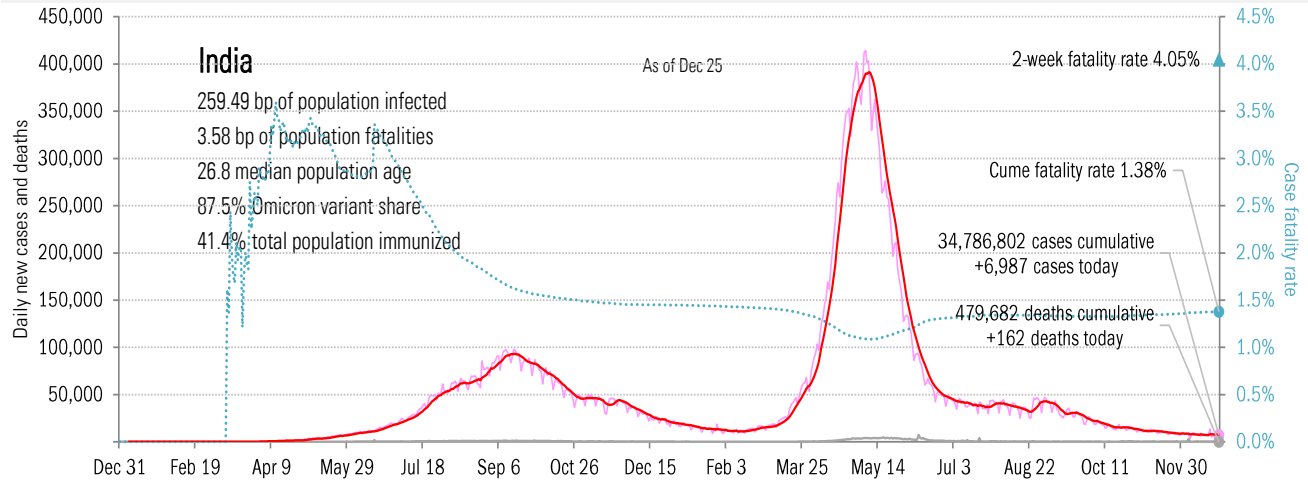
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

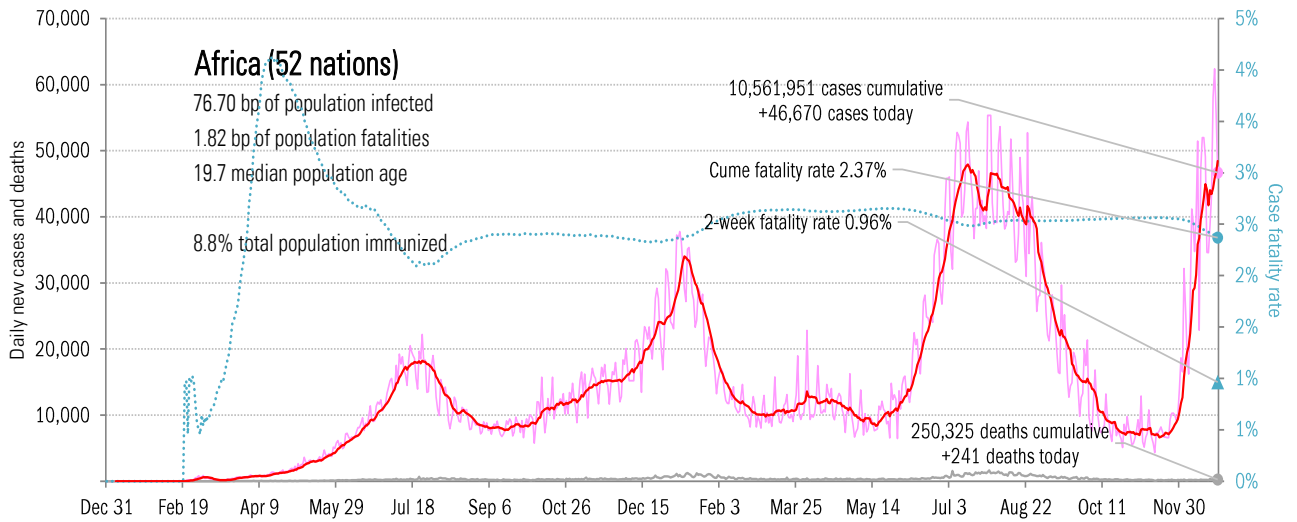
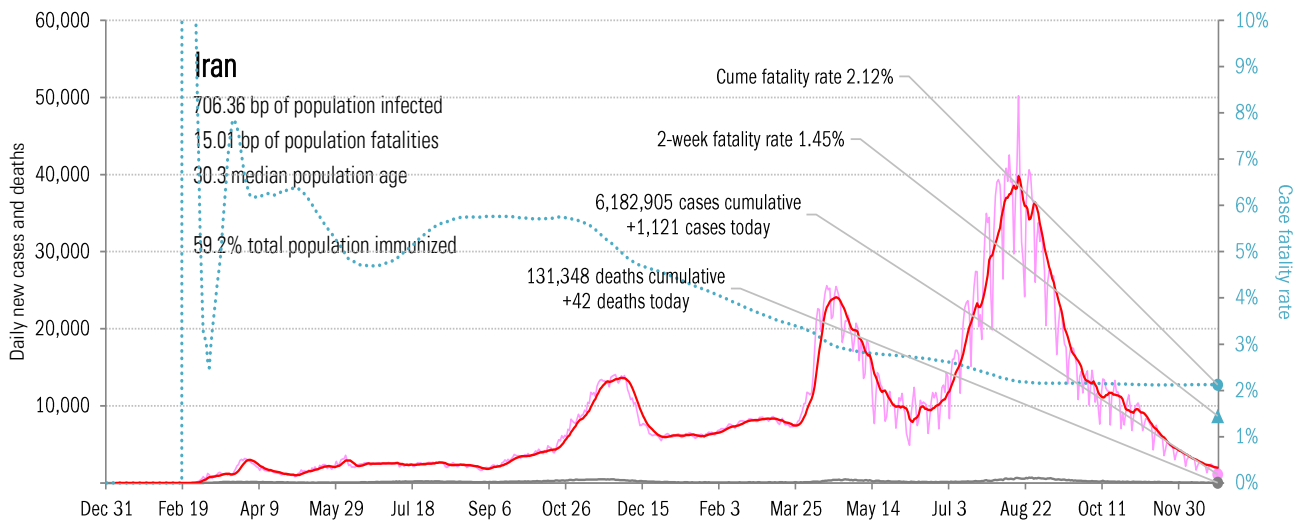
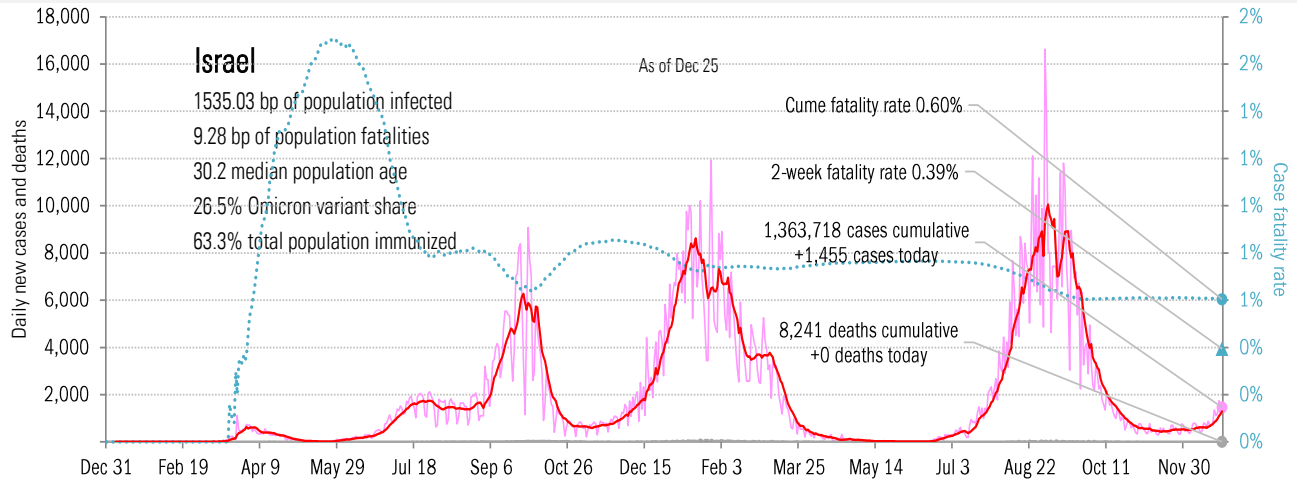
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

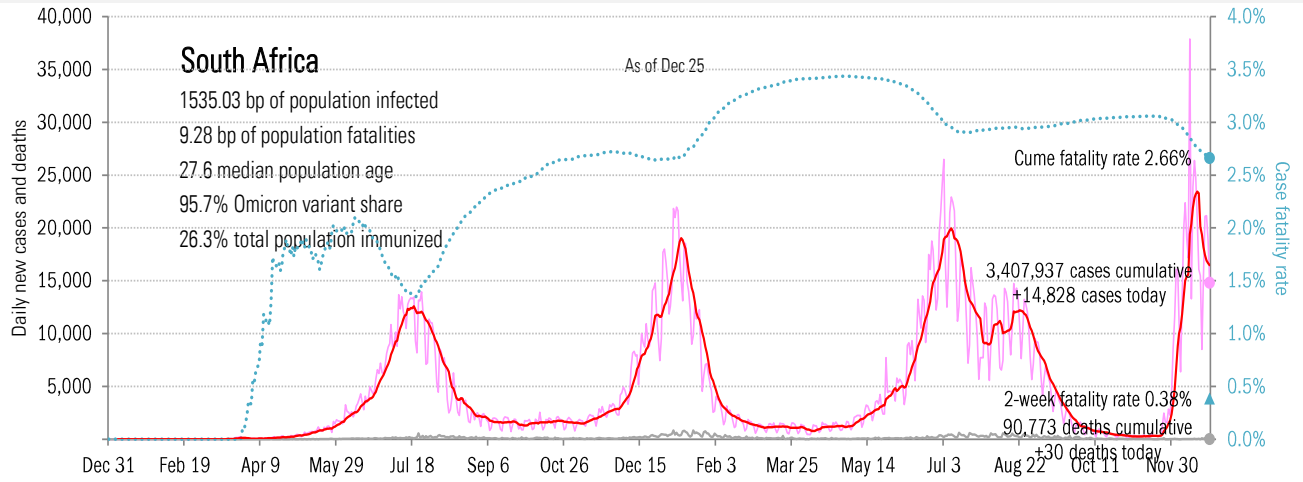
Cases: **7-day average** and **daily** Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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