

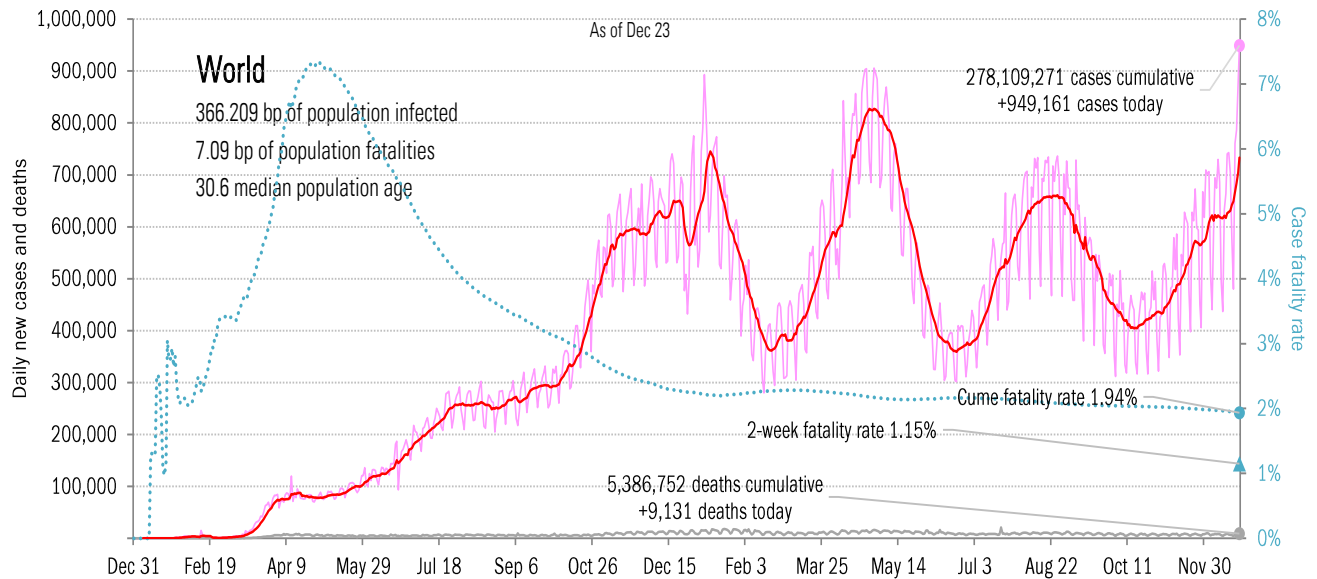
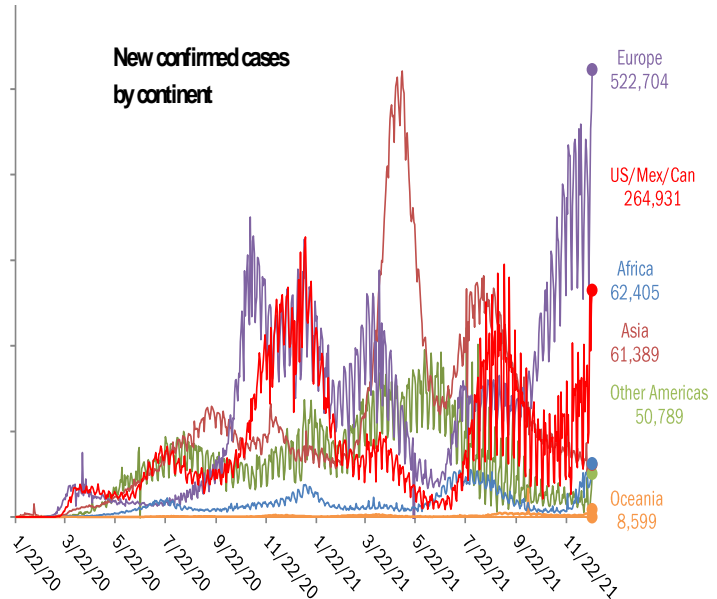
Data Insights: Covid-2019 Monitor

Friday, December 24, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+239,683	United States	+1,190
United Kingdom	+123,255	Russia	+974
France	+91,640	Poland	+616
Spain	+72,912	India	+374
Italy	+44,585	Germany	+371
Germany	+34,420	Ukraine	+303
Russia	+25,446	Vietnam	+280
Canada	+21,929	Mexico	+198
South Africa	+21,156	France	+179
Turkey	+18,771	Italy	+168
+693,797		+4,653	
World	+949,161	World	+9,131
Top ten	73%	Top ten	51%



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

For more information contact us:

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

Cases: 7-day average and daily Deaths: Daily

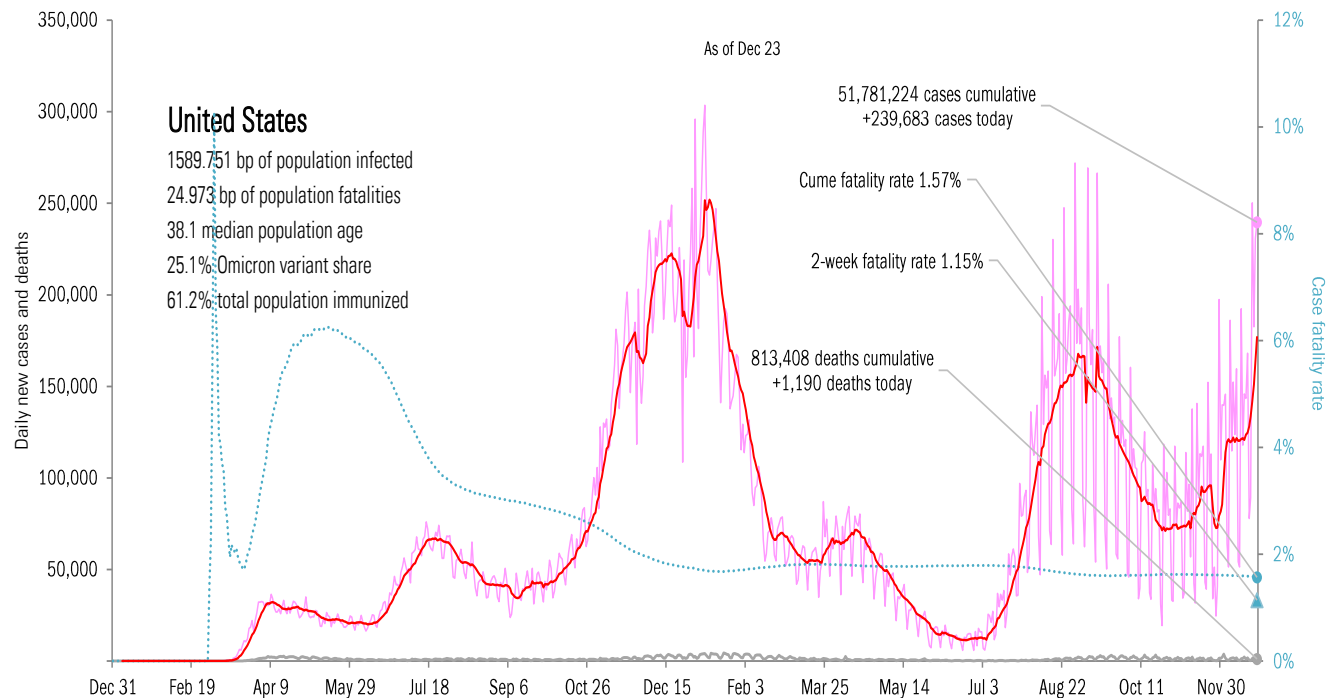
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
NY	+35,410		PA	+177		GA	+206		CA	5,269,446		CA	76,054		TX	394,075		RI	89%	NH	94%
IL	+18,934		CA	+96		FL	+200		TX	4,476,859		TX	75,322		CA	329,346		MA	87%	RI	92%
NJ	+18,122		NY	+93		NJ	+140		FL	3,798,934		FL	62,435		FL	329,019		PA	85%	KY	91%
CH	+15,989		TX	+84		TX	+129		NY	3,070,884		NY	58,889		NY	184,030		GA	84%	NM	91%
CA	+12,683		IL	+78		LA	+65		IL	2,021,294		PA	35,960		GA	166,973		MN	83%	TX	90%
TX	+12,153		TN	+69		MA	+63		PA	1,924,507		GA	31,169		CH	149,108		AZ	83%	IN	89%
FL	+11,213		WI	+64		NY	+57		CH	1,896,577		IL	29,868		PA	138,664		MD	83%	NE	89%
PA	+10,548		MN	+62		IL	+51		GA	1,724,105		NJ	28,822		IL	120,828		MI	83%	MO	87%
GA	+10,012		MA	+48		CA	+41		MI	1,645,578		MI	28,345		KY	118,675		WA	83%	MI	86%
MA	+9,791		GA	+45		MD	+38		NC	1,607,378		CH	28,277		MI	114,158		CT	83%	AR	85%
+154,855			+816			+990			27,435,562			455,141			2,044,876						
All states +239,683			+1,190			+855			All states 51,781,224			813,408			3,695,136			All states 70%		67%	
Top ten 65%			69%			116%			Top ten 53%			56%			55%			Median 77%		79%	

Some states not reporting

Five most improved US states

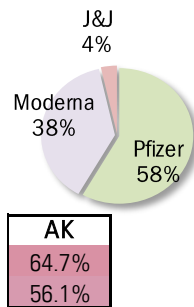
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-16,216	MI	-444	WI	-81	MP	+30 bp
KS	-5,087	FL	-126	CH	-65	DC	+20 bp
NC	-4,889	IA	-119	IL	-43	ME	+20 bp
IN	-4,778	IN	-88	AR	-35	AK	+10 bp
KY	-2,894	NC	-50	IN	-32	AZ	+10 bp



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	513,377,812	+1.237 million	US	61.2%	72.8%
Boosters	65,466,868	+1.310 million	UK	69.2%	75.7%
	One dose	% Pop	Immune	% pop	New immune today
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



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

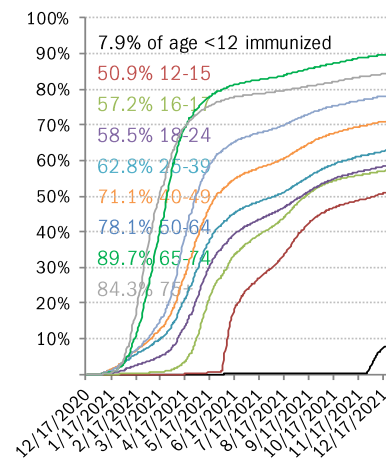
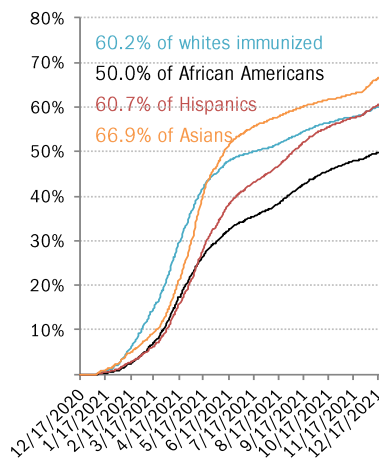
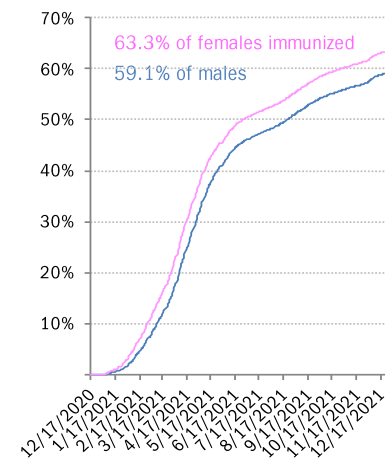
France	72.6%	77.9%
Spain	80.9%	84.3%
Germany	70.1%	73.1%
Italy	73.8%	79.7%
Australia	76.3%	79.1%
Israel	63.1%	69.9%
Canada	77.1%	83.1%
Japan	78.1%	79.5%
Africa	8.8%	14.4%
India	40.5%	59.8%
Brazil	66.7%	77.5%
China	82.6%	84.8%

Global data differs due to sources, timing

As of Dec 23

AK	64.7%	56.1%	WI	67.8%	61.7%	ME	85.2%	75.5%													
WA	75.2%	52.0%	MT	61.7%	ND	61.9%	MN	71.0%	IL	71.6%	MI	63.1%	NY	82.9%	VT	88.7%	NH	95.0%			
	67.6%	46.1%		53.8%		52.3%		65.1%		63.9%		56.5%		71.3%		76.9%		66.9%			
OR	73.7%	68.9%	WY	55.5%	SD	70.3%	IA	64.5%	IN	57.6%	OH	60.1%	PA	77.3%	NJ	82.8%	MA	89.8%			
	66.2%	56.1%		47.3%		56.7%		58.7%		51.8%		55.0%		63.5%		70.1%		74.2%			
CA	82.0%	66.9%	CO	74.0%	NE	66.0%	MO	62.0%	KY	62.1%	WV	61.6%	VA	78.4%	MD	79.8%	CT	87.8%	RI	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	66.7%	NM	80.2%	KS	68.7%	AR	62.3%	TN	58.4%	NC	75.4%	SC	62.3%	DC	87.3%	DE	76.1%		
			56.7%		65.9%		56.6%		50.9%		51.1%		56.4%		52.9%		67.2%		63.9%		
				OK	65.4%	LA	57.0%	MS	55.2%	AL	58.1%	GA	60.7%								
					53.2%		50.0%		48.0%		47.3%		50.6%								
HI	86.1%	63.2%	TX	66.3%										FL	74.0%						
				56.6%											63.0%				PR	88.3%	76.7%

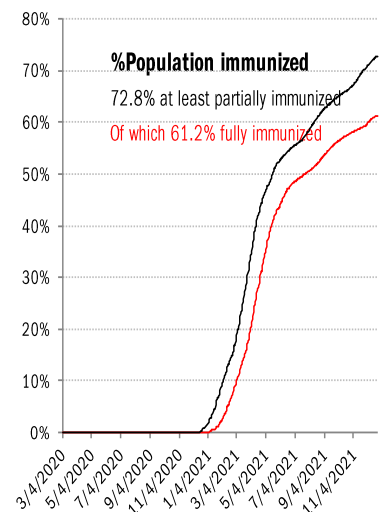
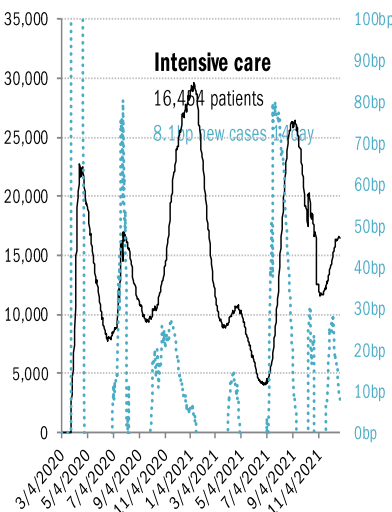
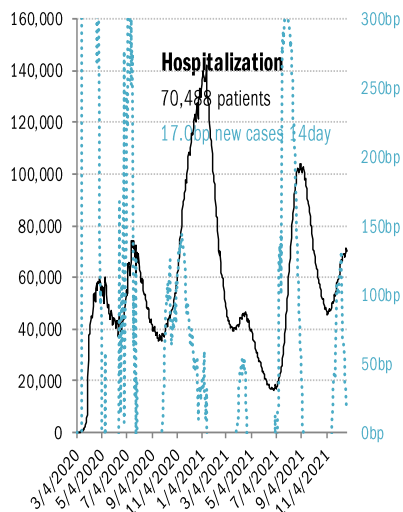
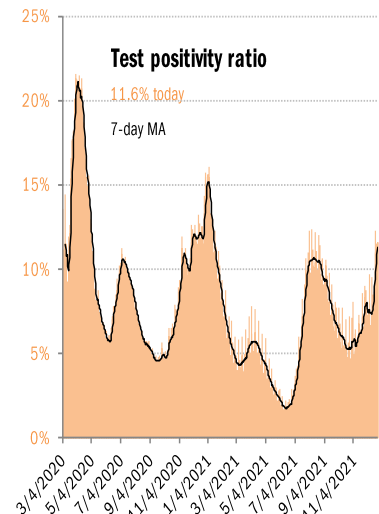
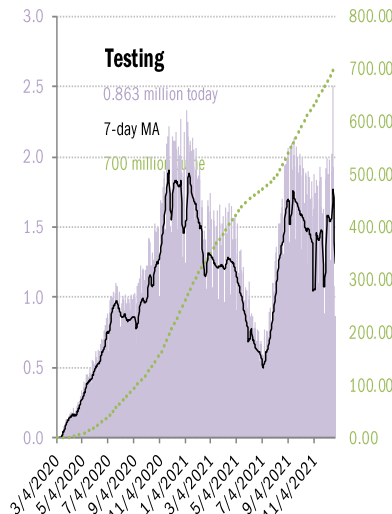
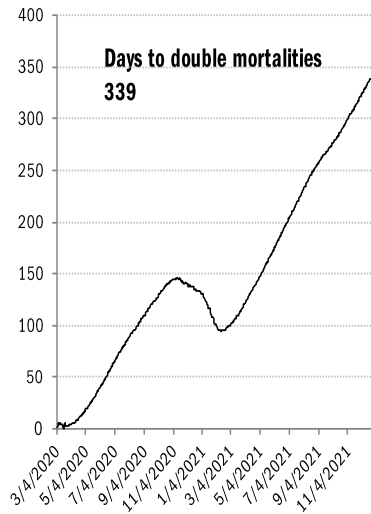
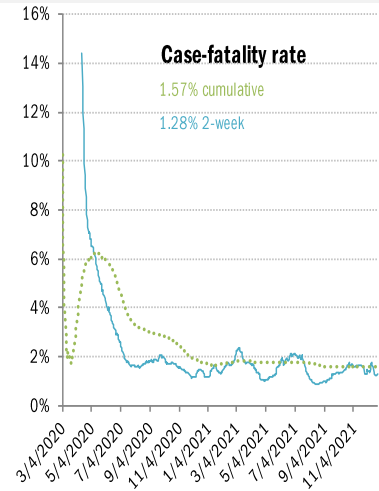
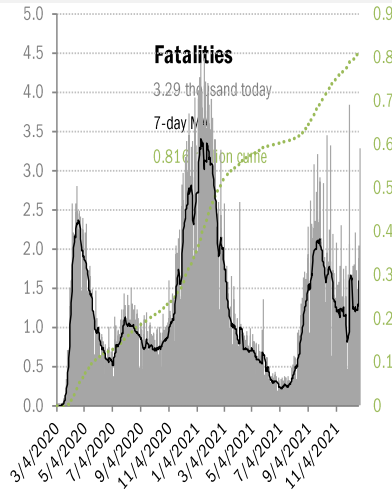
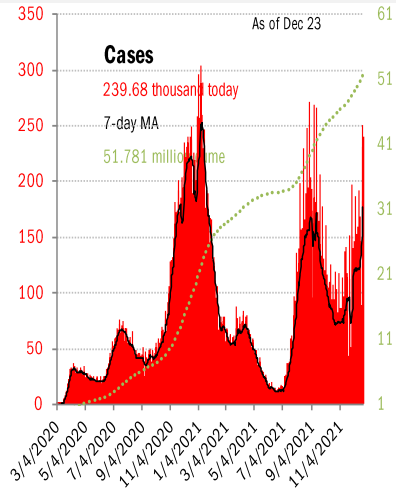
The demographics of US vaccination



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

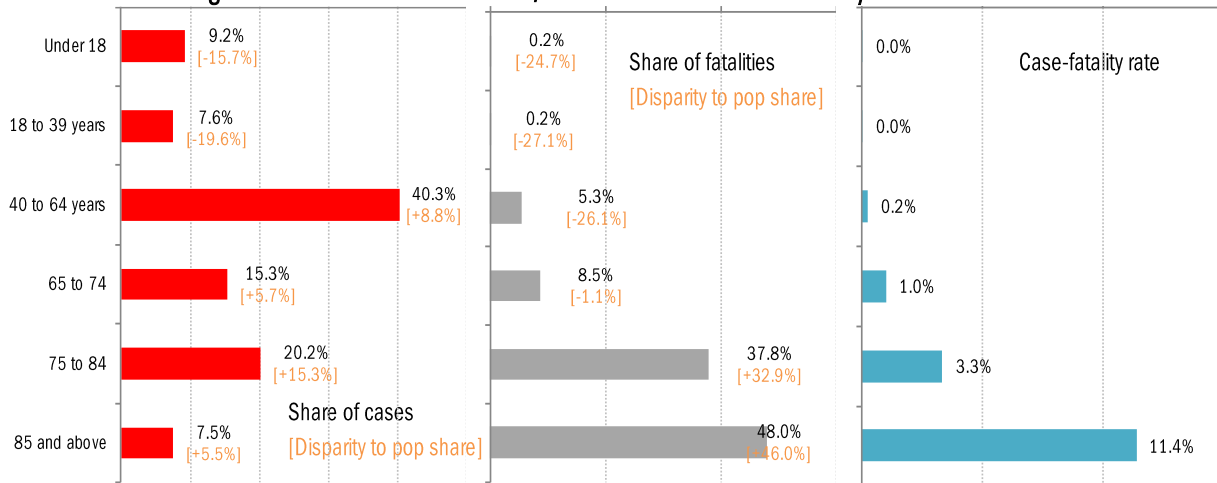
US deep-dive

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

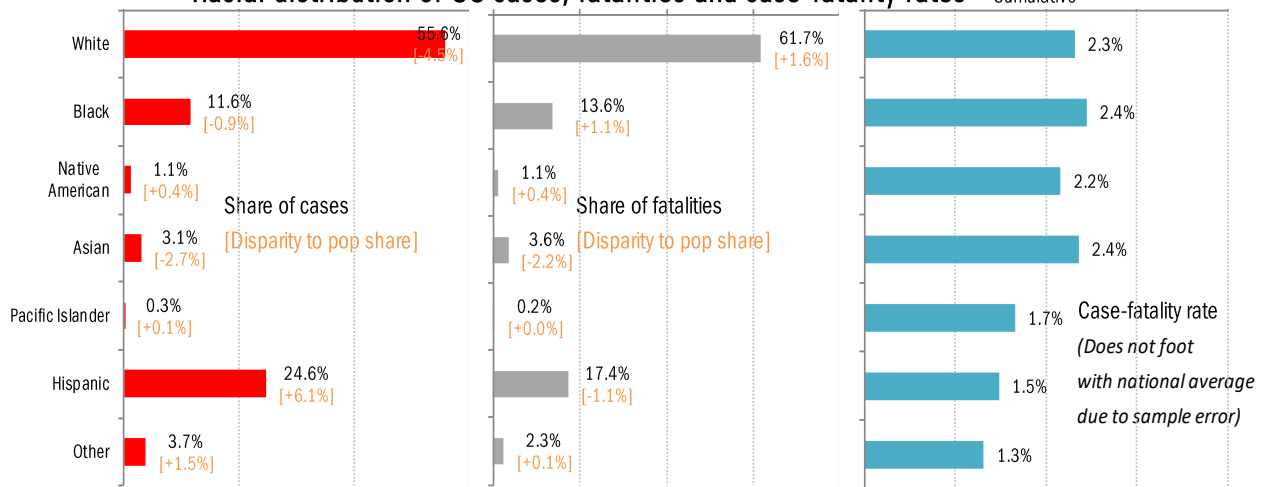


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

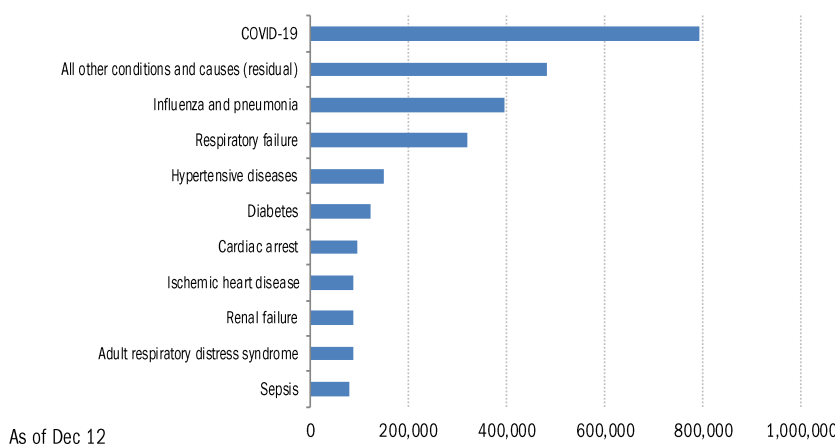


Racial distribution of US cases, fatalities and case-fatality rates



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

[We'll never end the COVID pandemic if politicians keep making same mistakes](#)

David Marcus
New York Post
December 23, 2021

[Risk assessment for SARS-CoV-2 variant: Omicron VOC-21NOV-01 \(B.1.1.529\)](#)

UK Health Security Agency
December 22, 2021

[Criminals have stolen nearly \\$100 billion in Covid relief funds, Secret Service says](#)

Eamon Javers and Scott Zamost
CNBC
December 21, 2021

[Omicron cases up to 70% less likely to need hospital stay, says England health body](#)

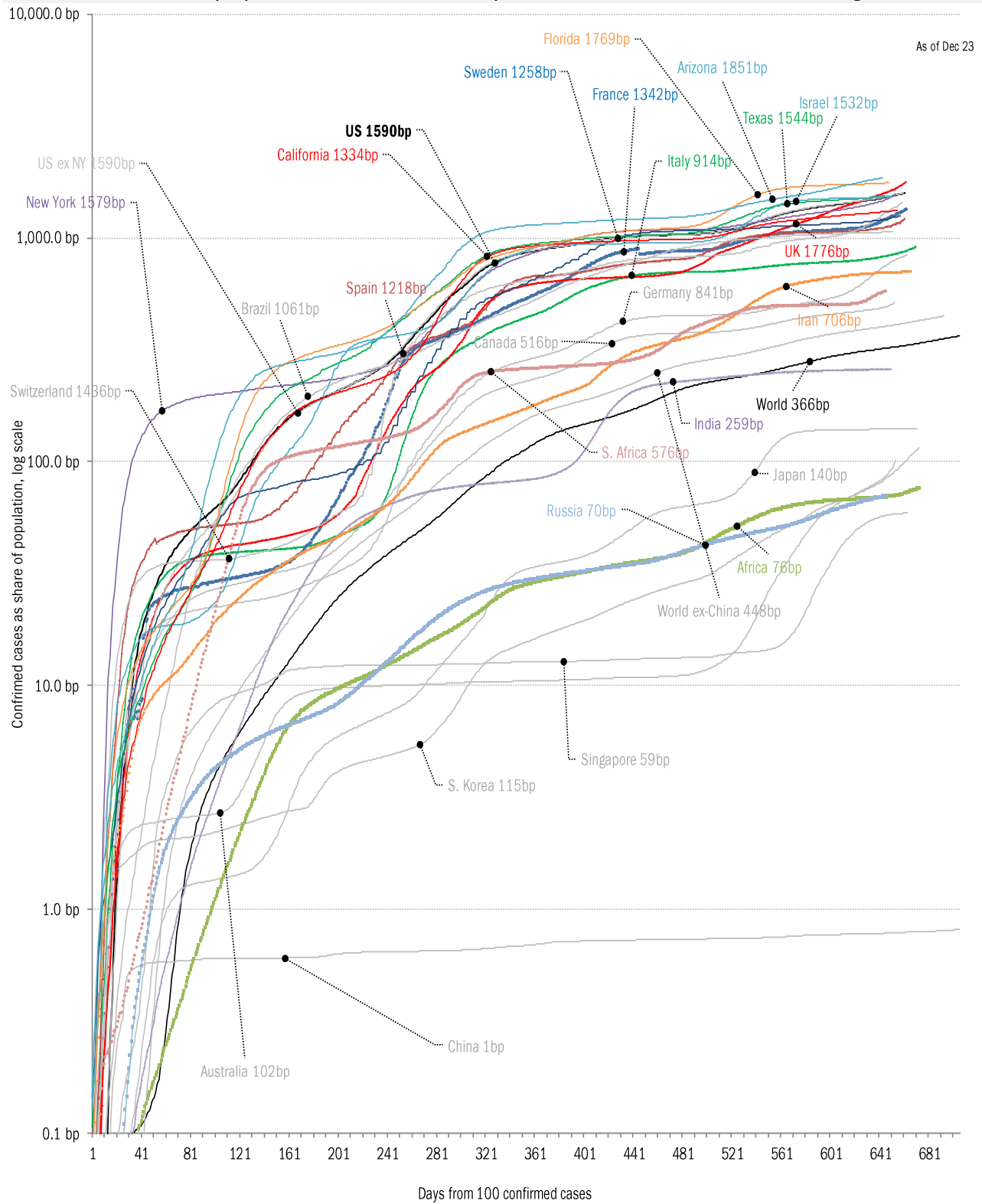
Oliver Barnes
Financial Times
December 23, 2021

Meme of the day



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

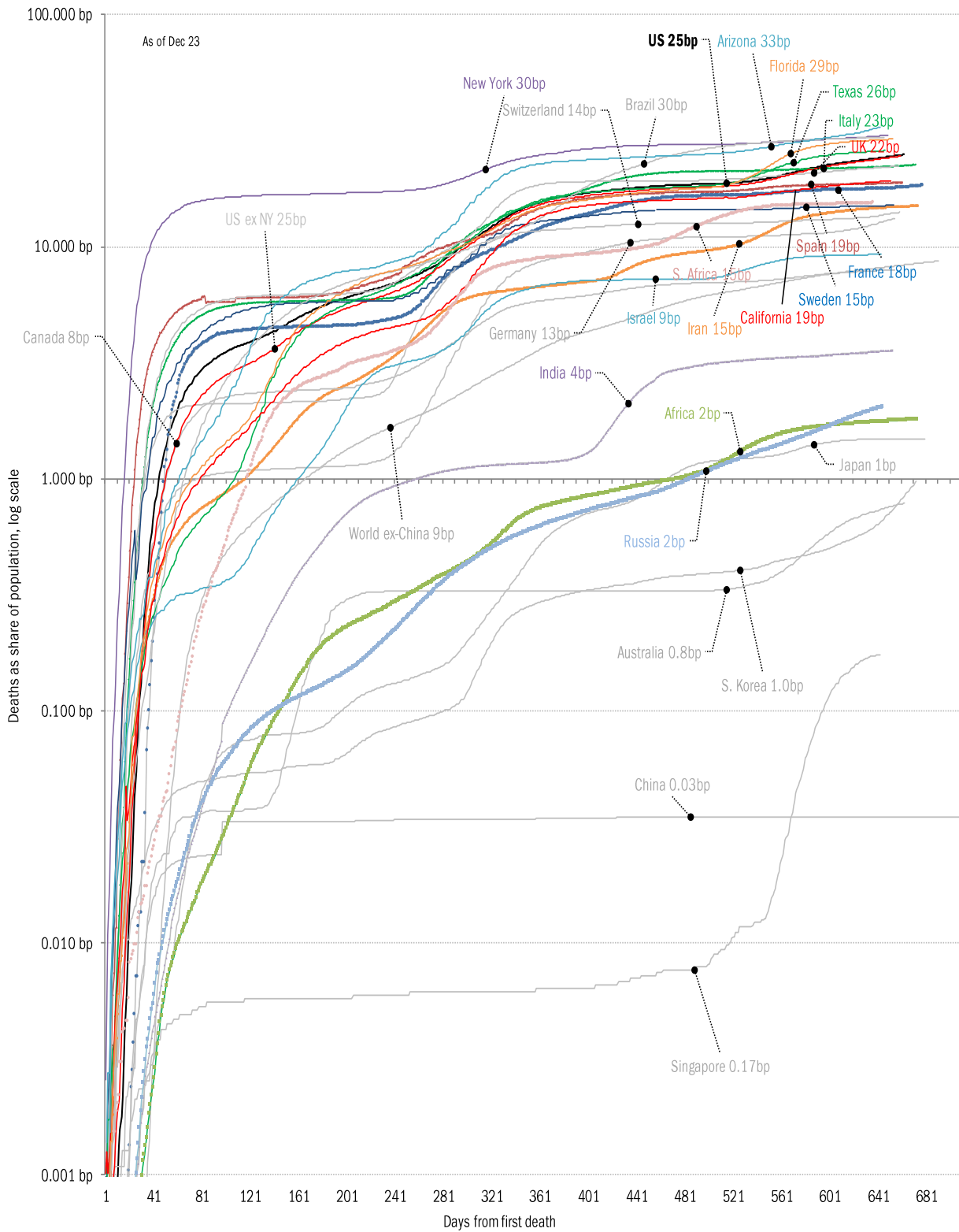
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

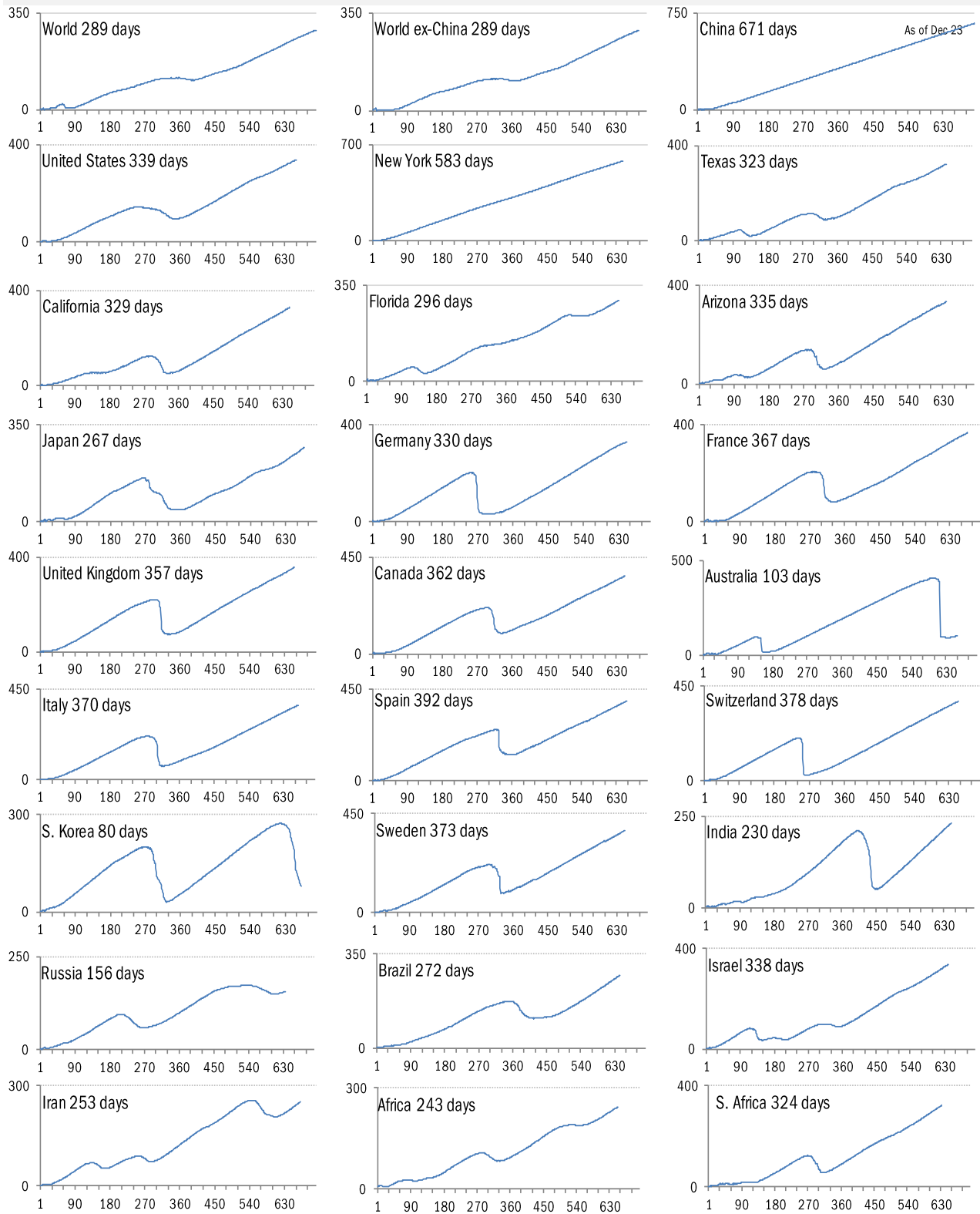


Source: [Johns Hopkins](#), TrendMacro calculations

"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

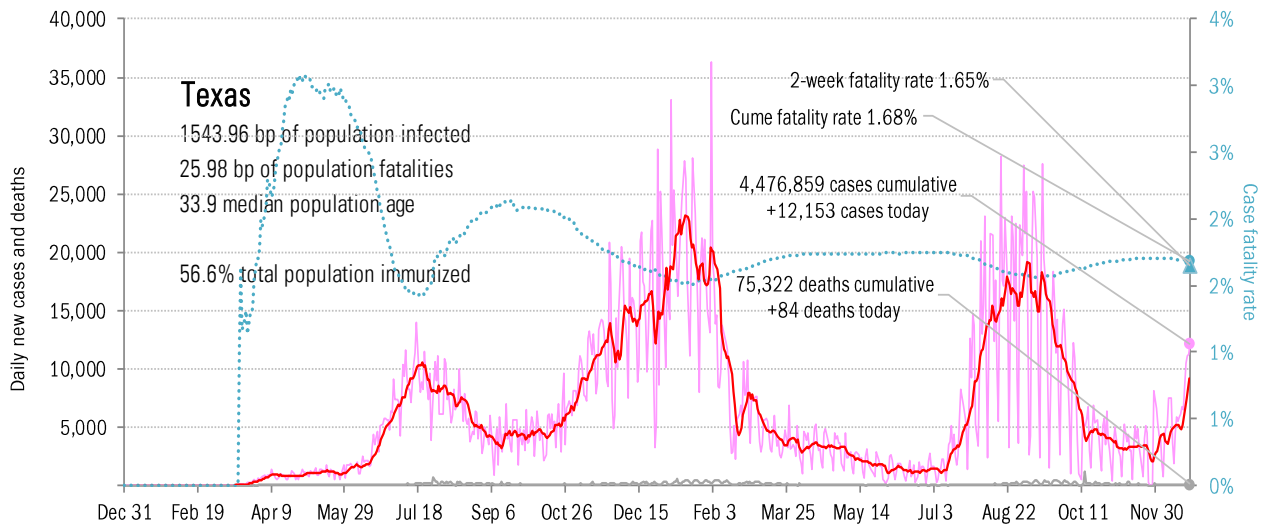
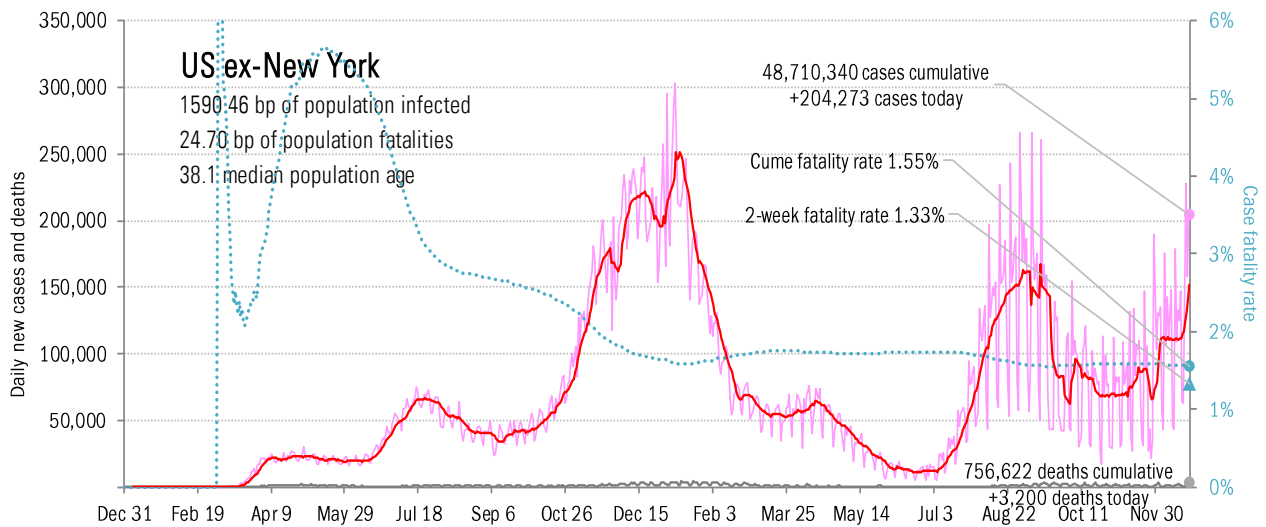
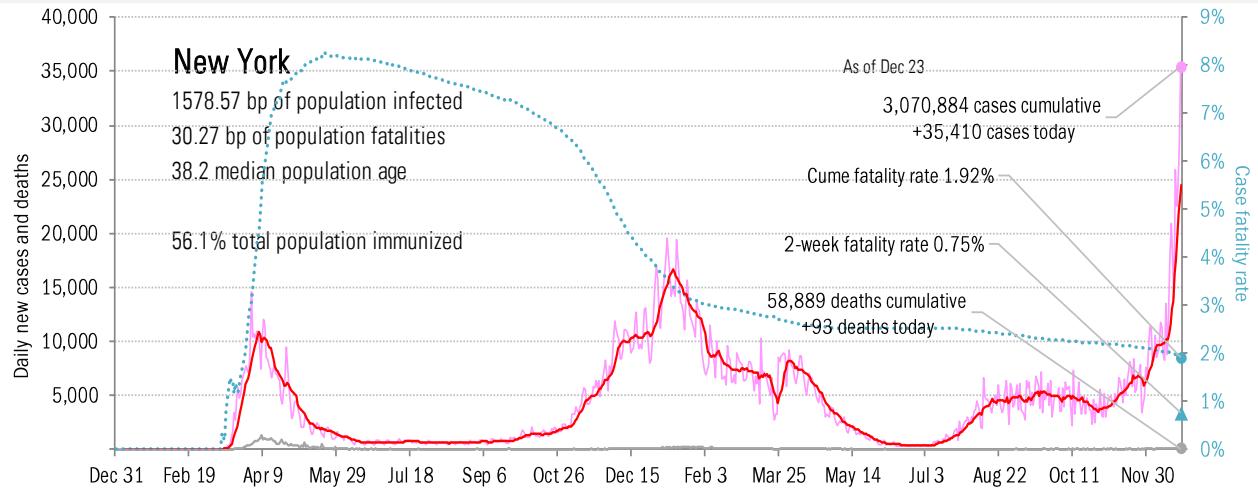
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

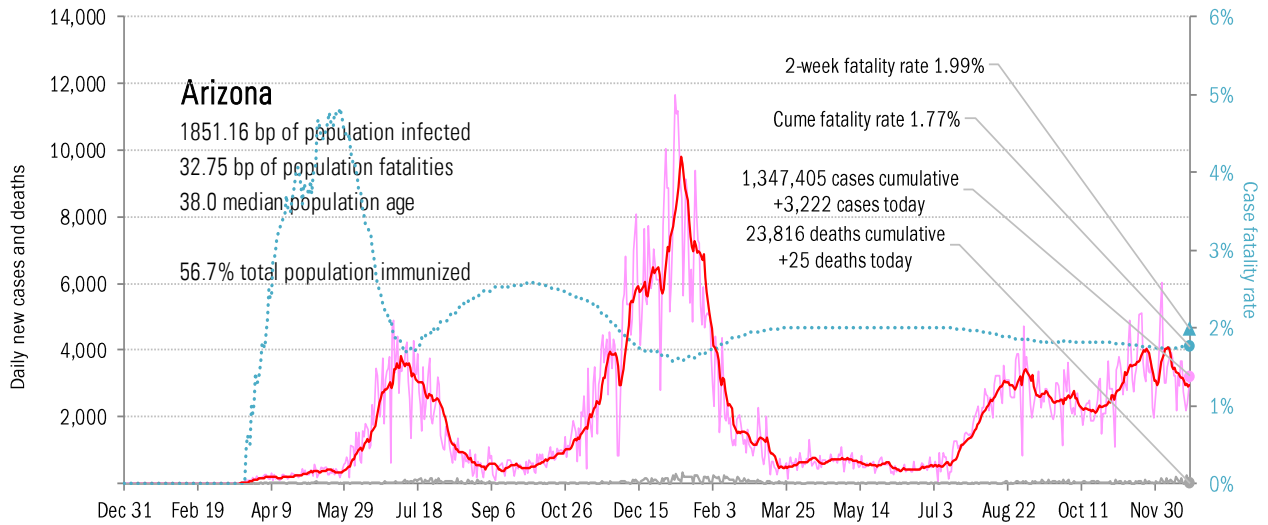
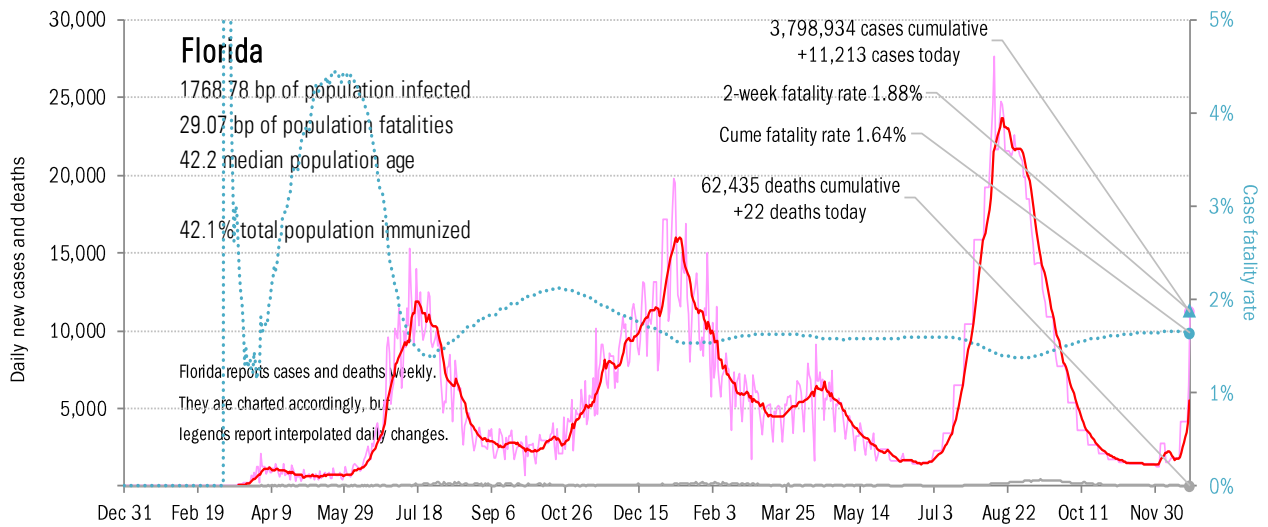
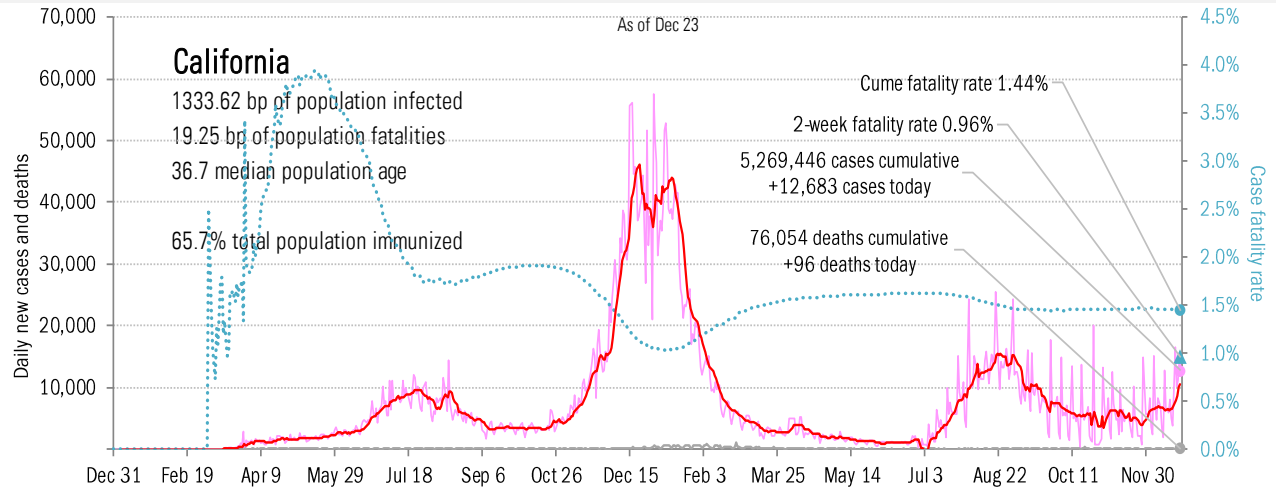
Cases: 7-day average and daily Deaths: Daily



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

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

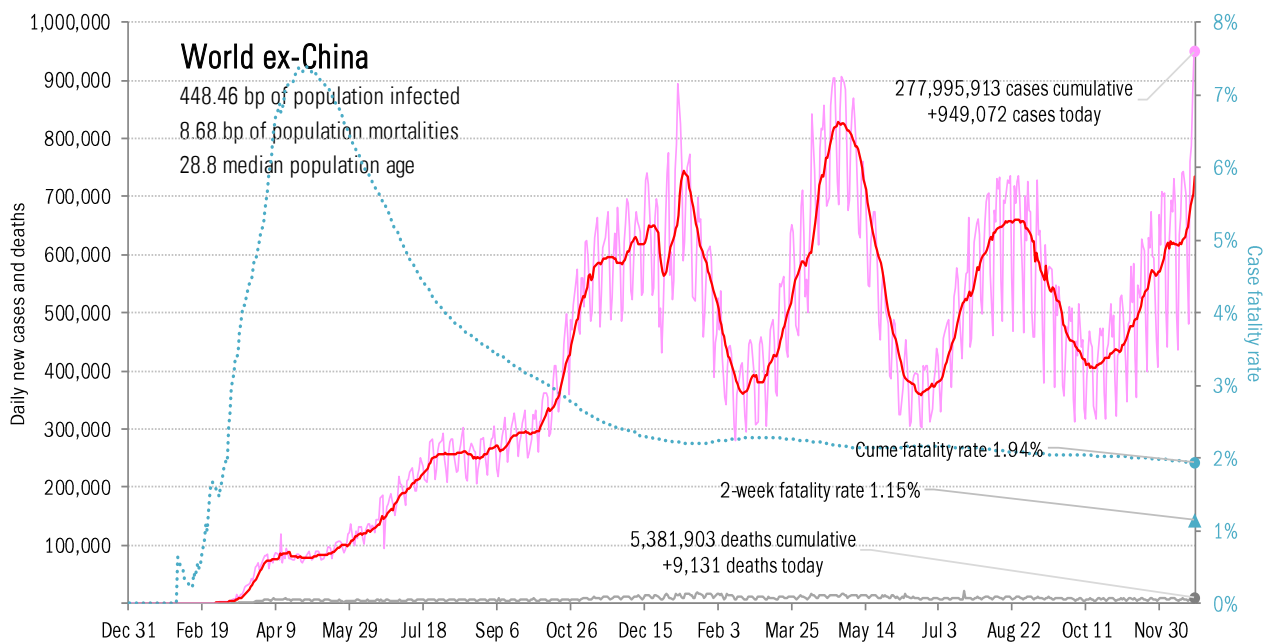
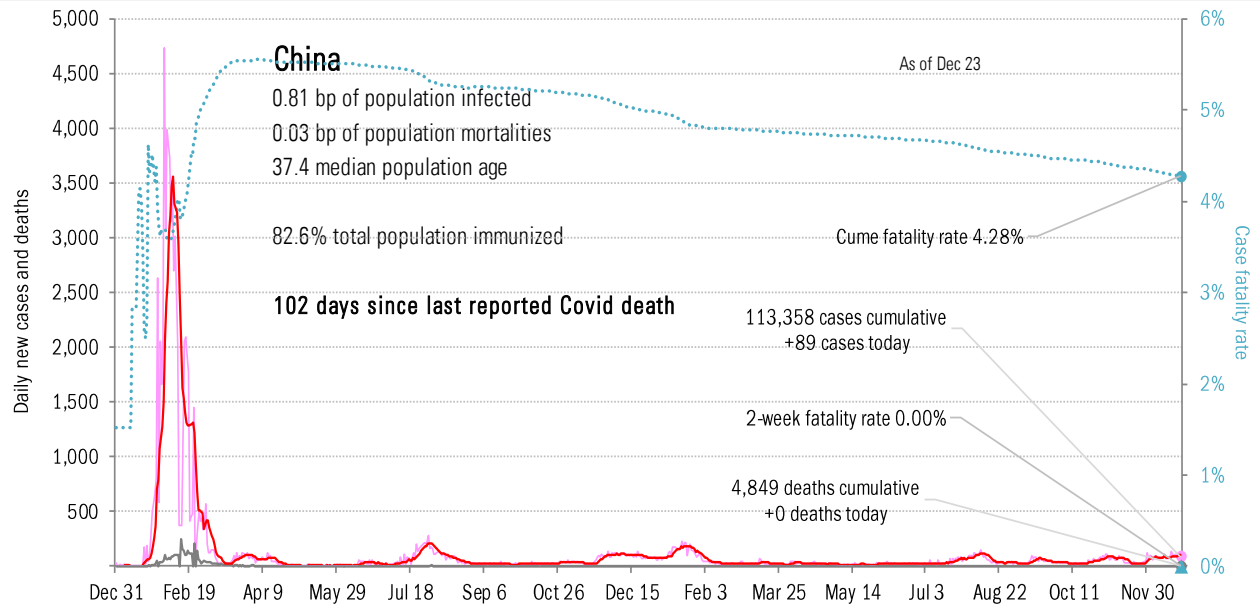
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

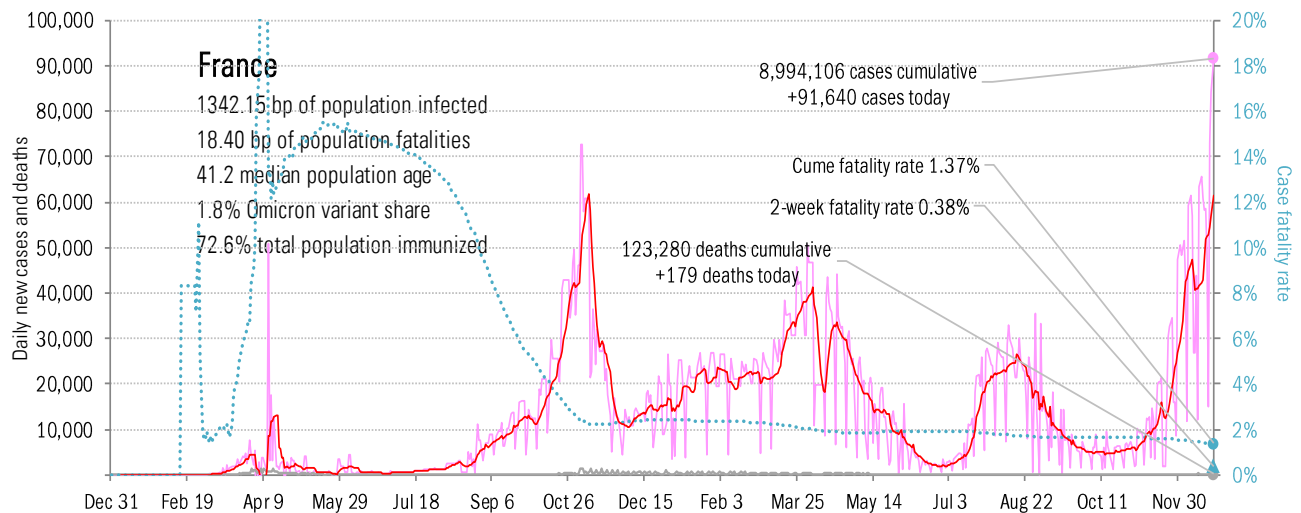
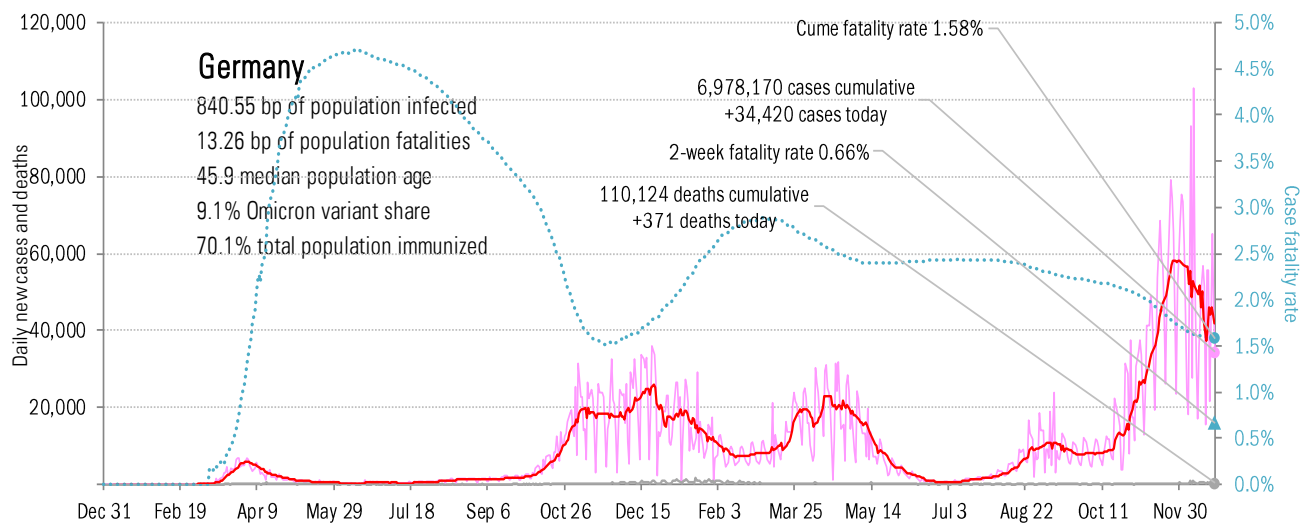
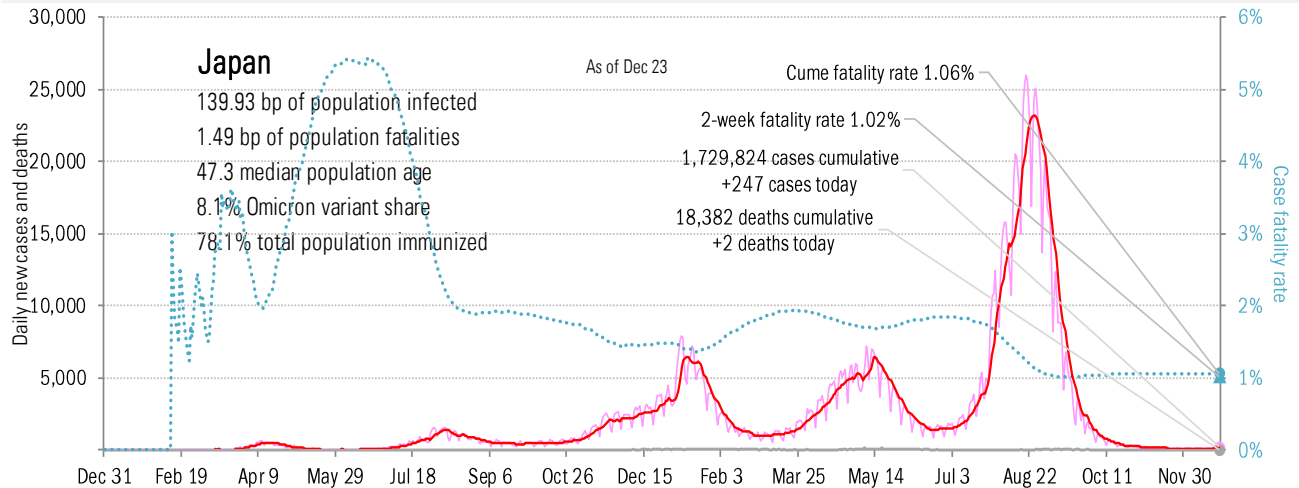
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

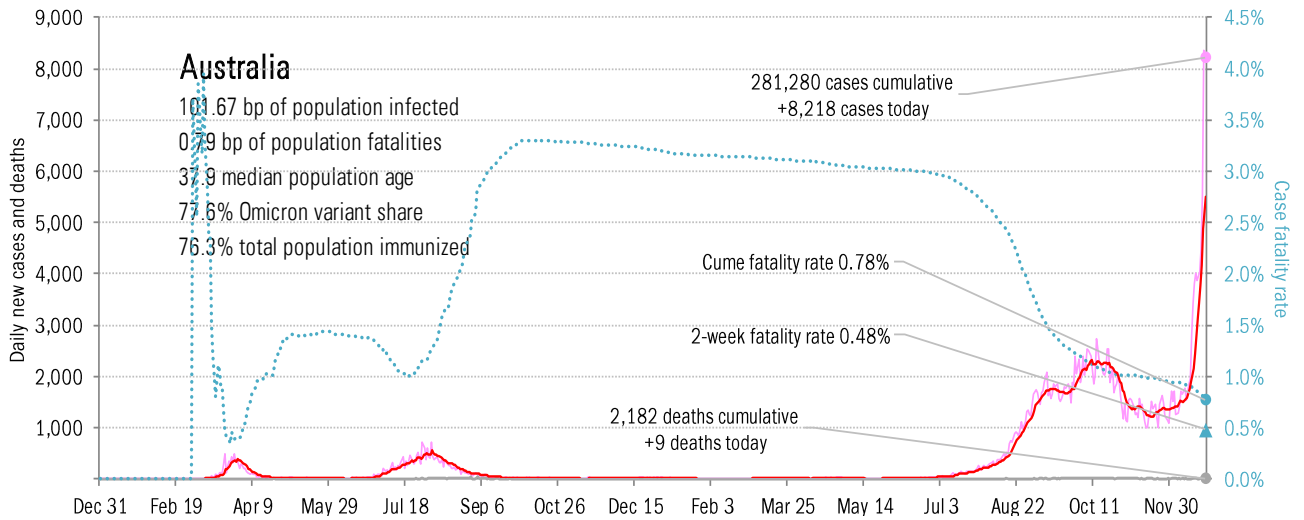
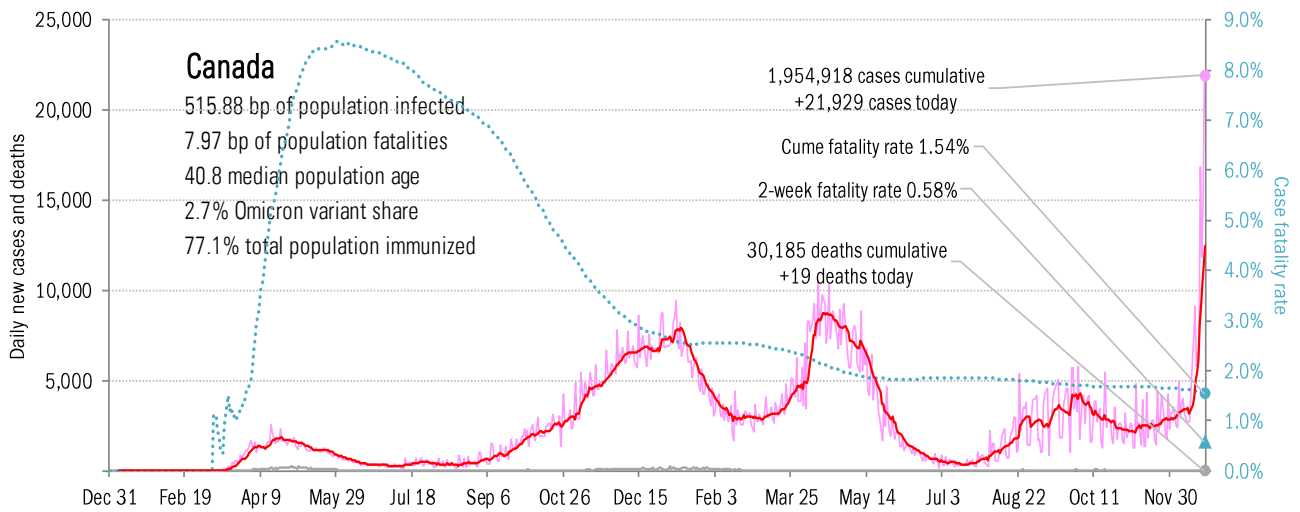
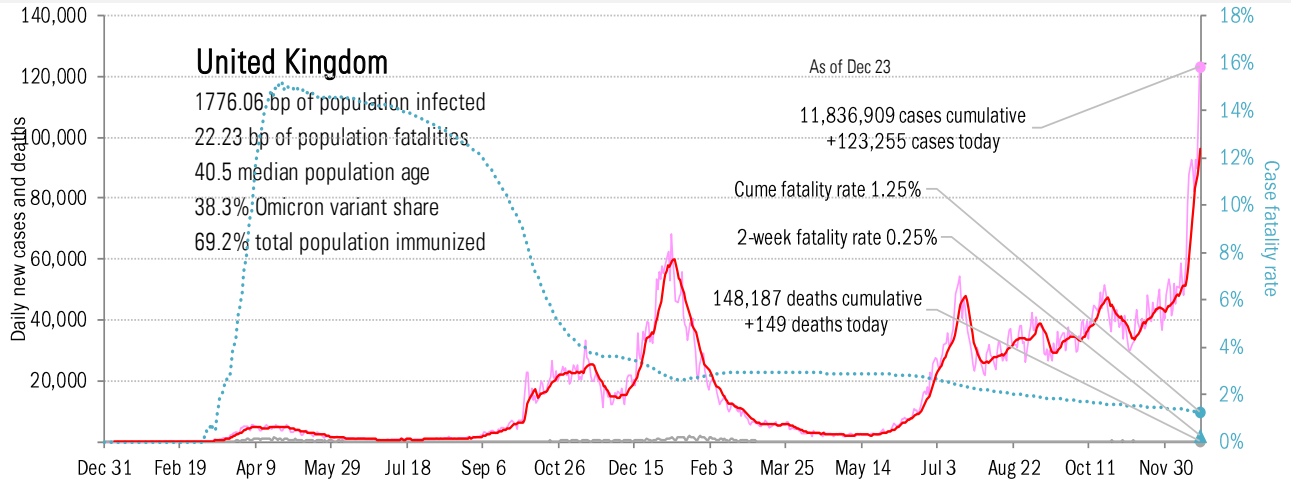
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

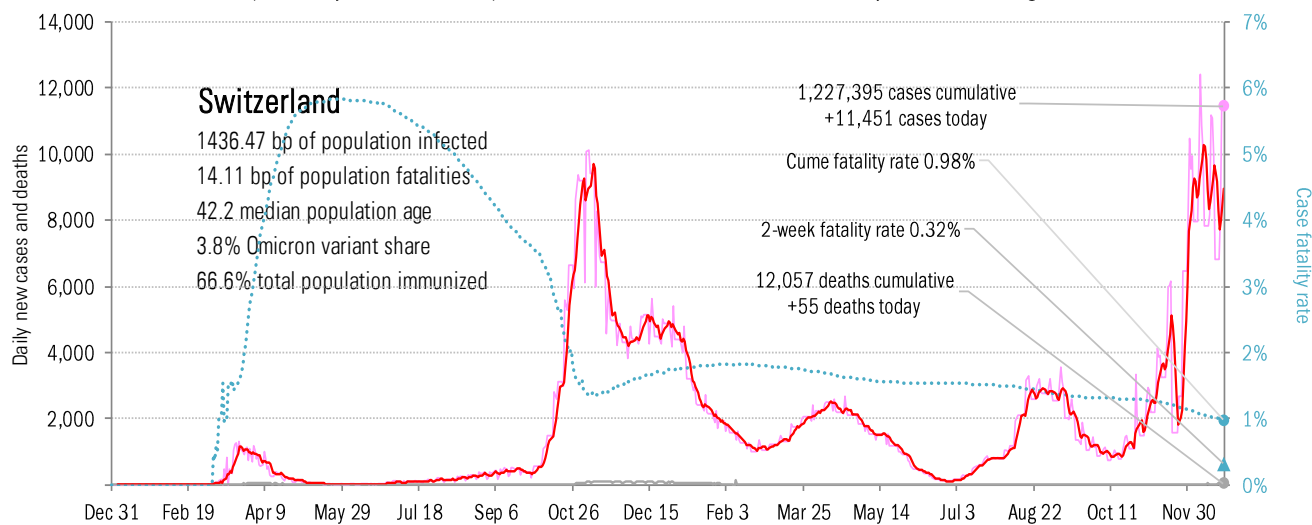
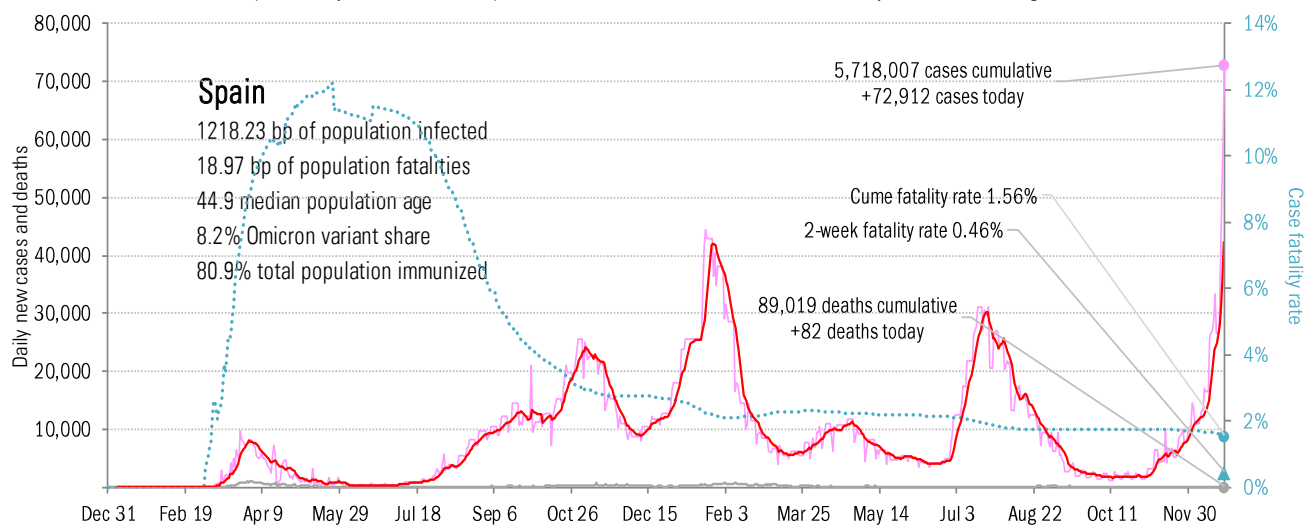
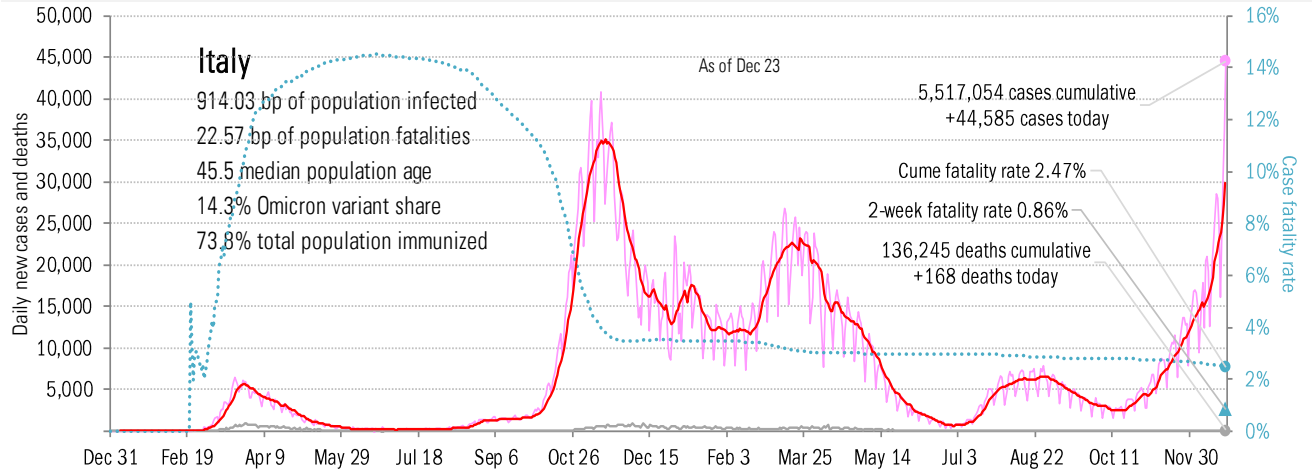
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

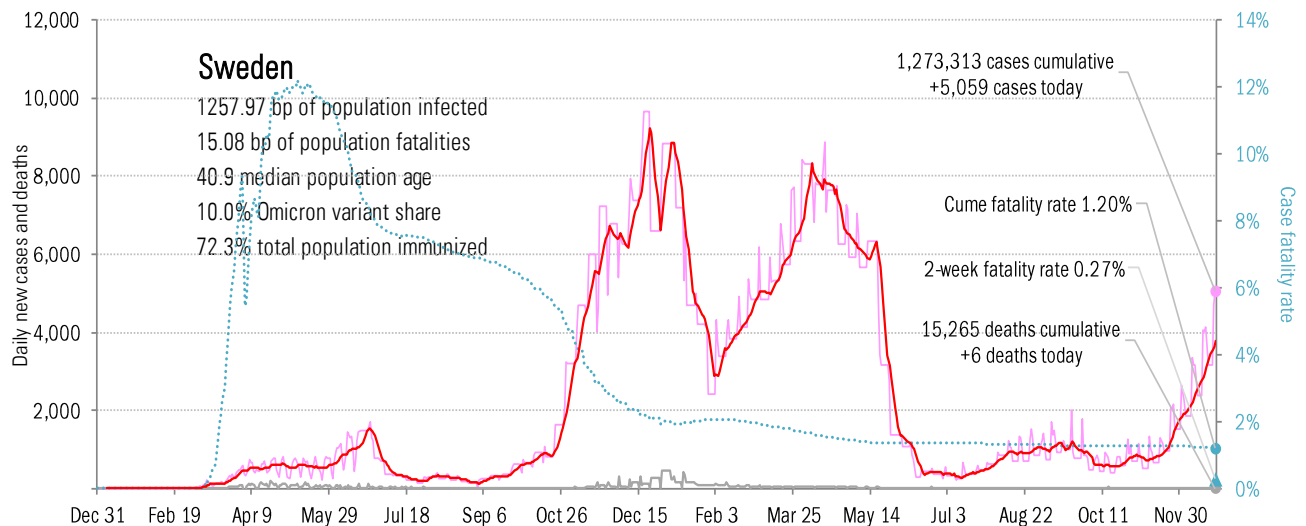
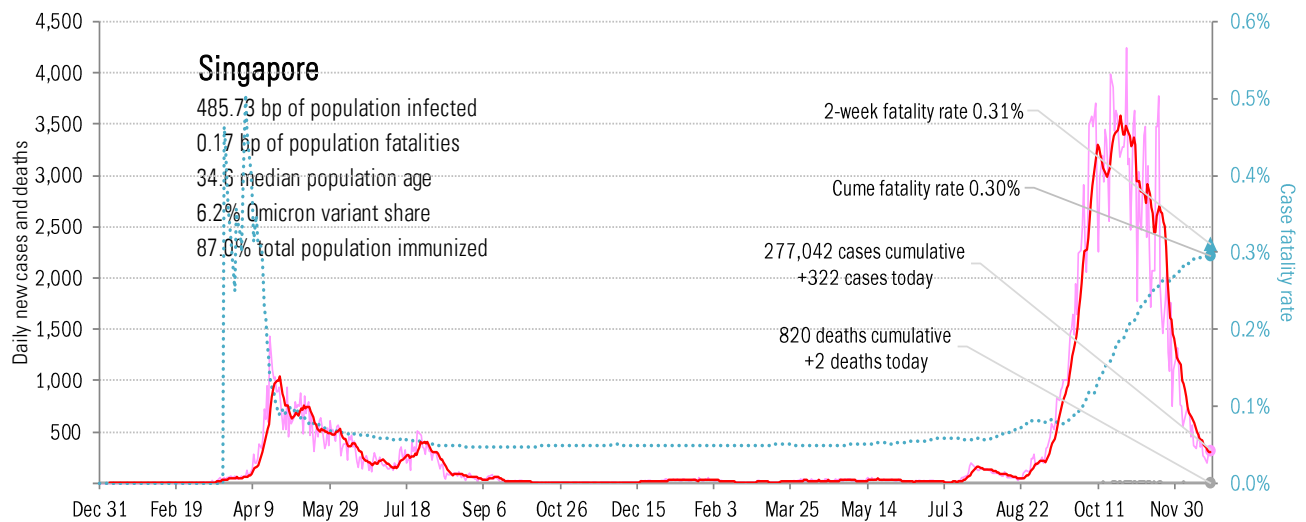
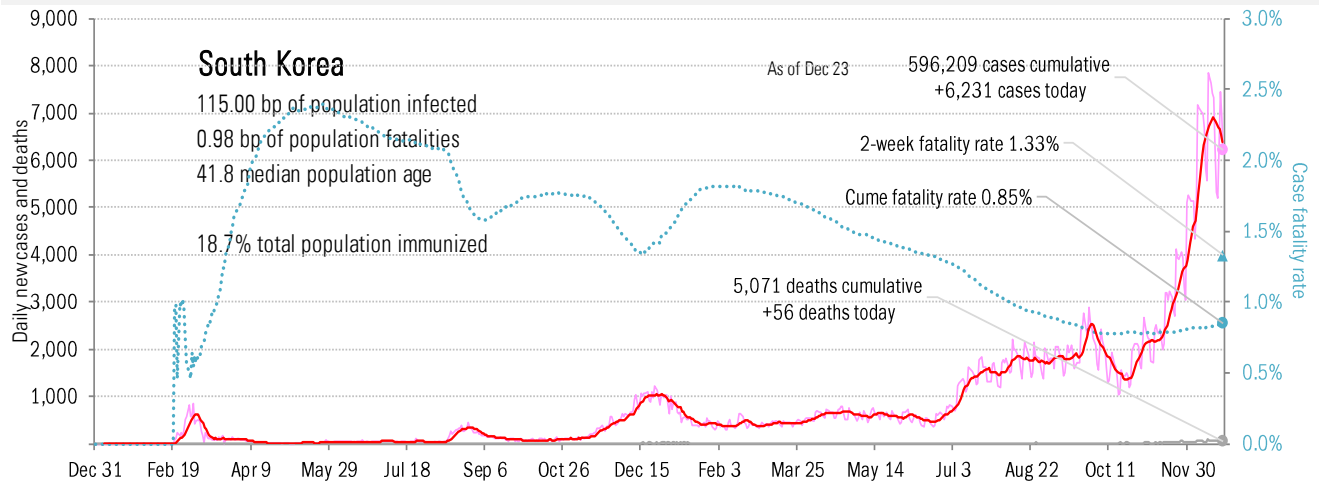
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

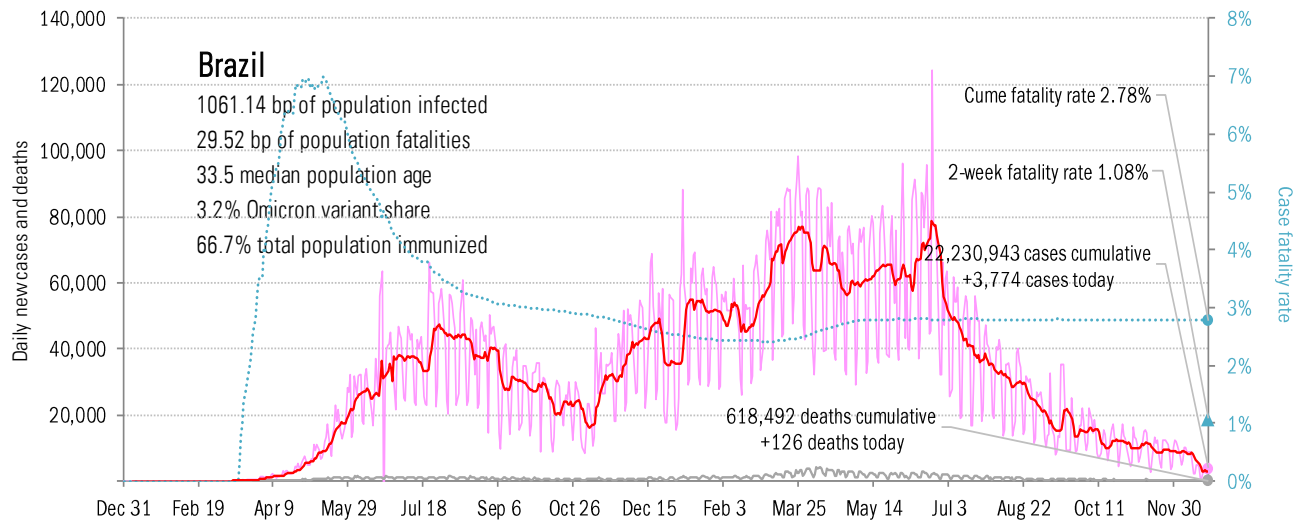
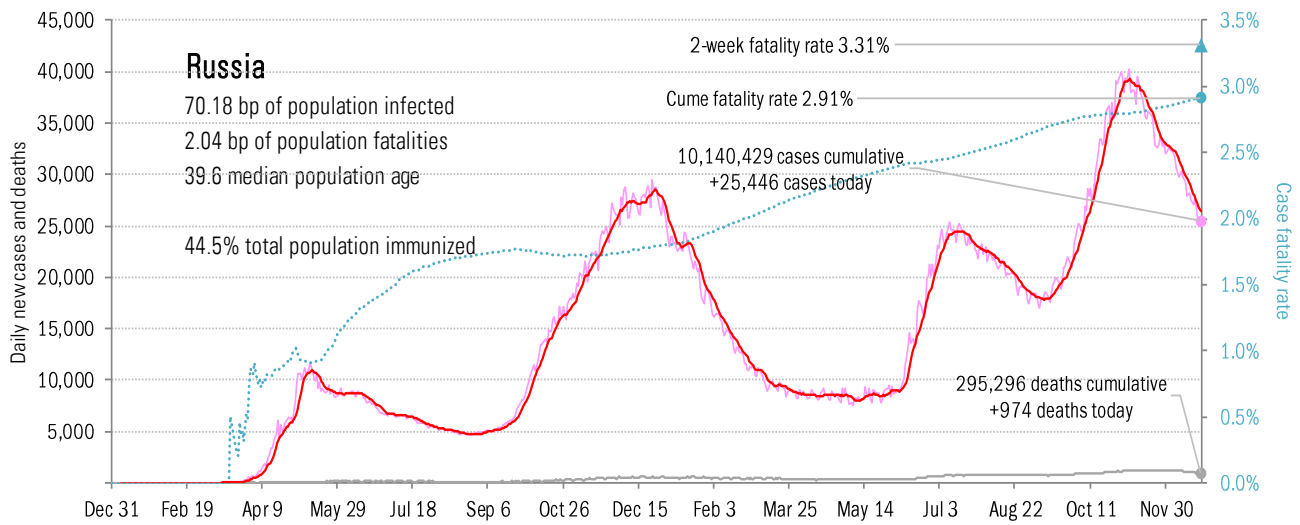
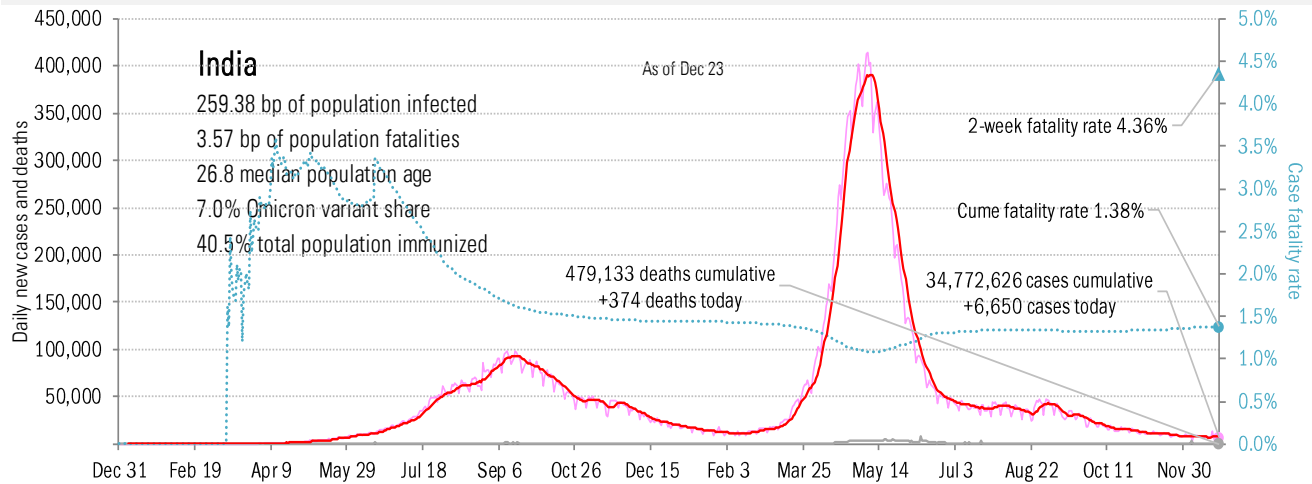
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

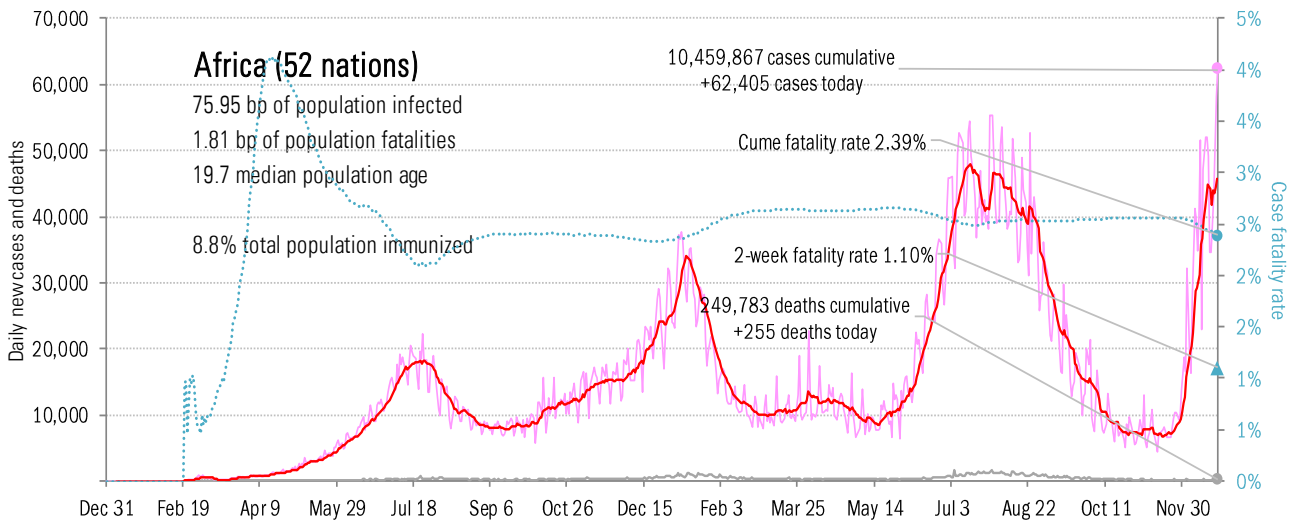
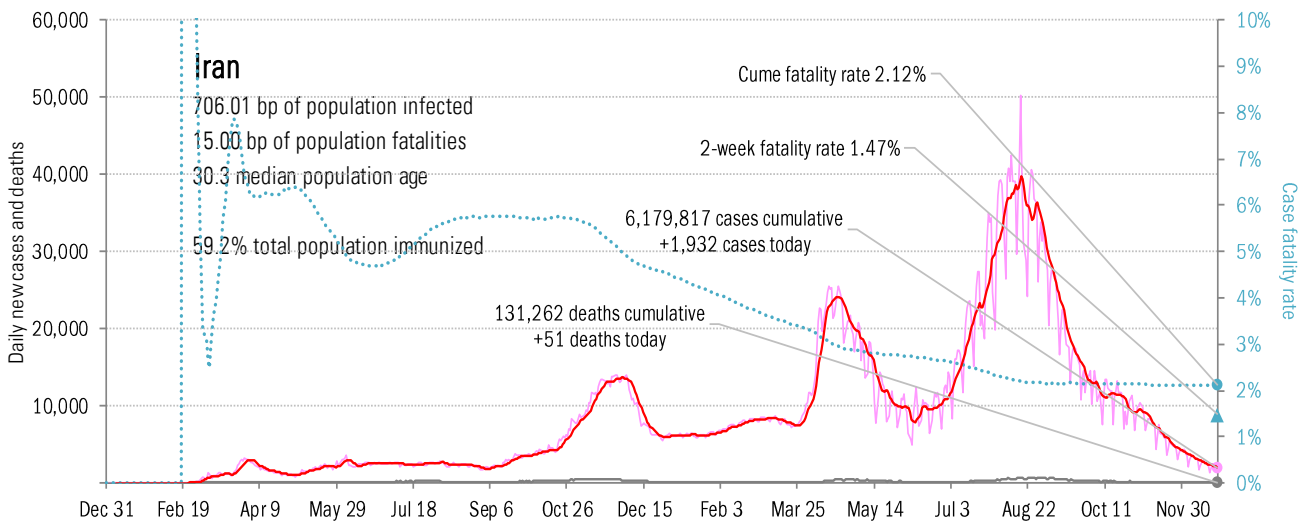
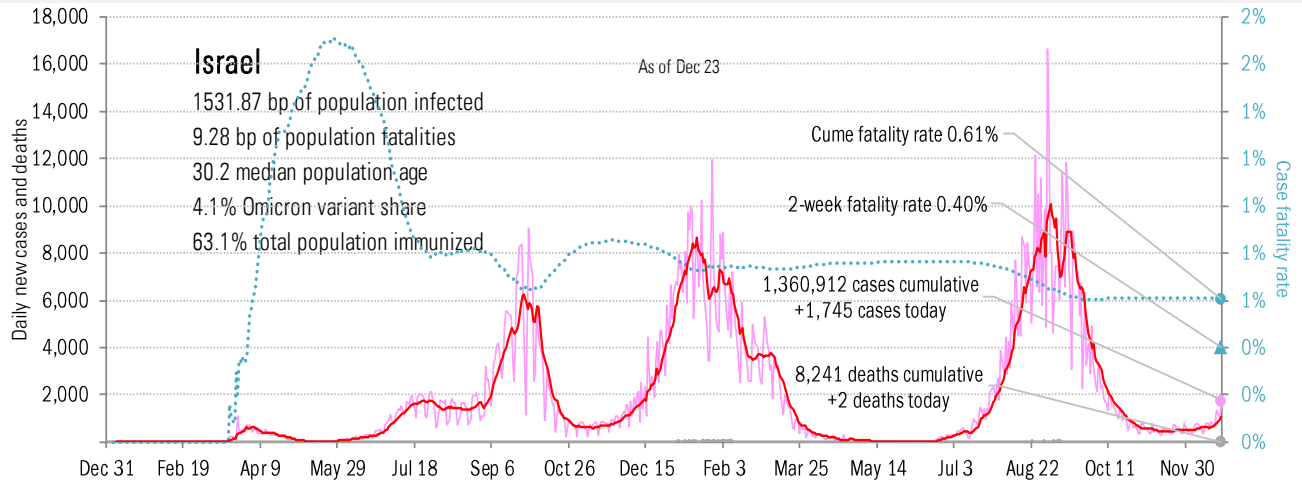
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

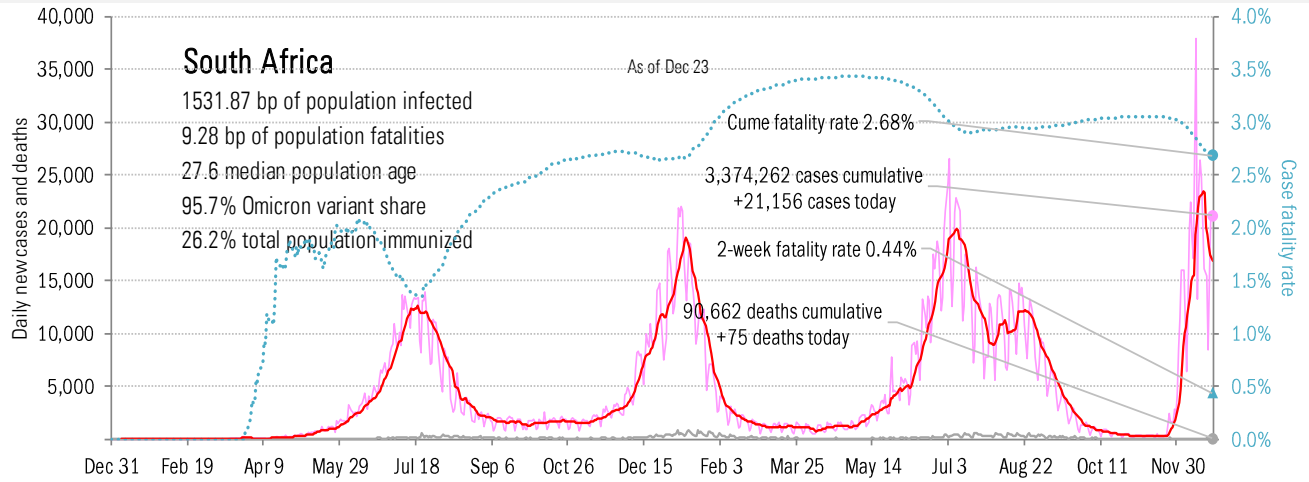
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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