

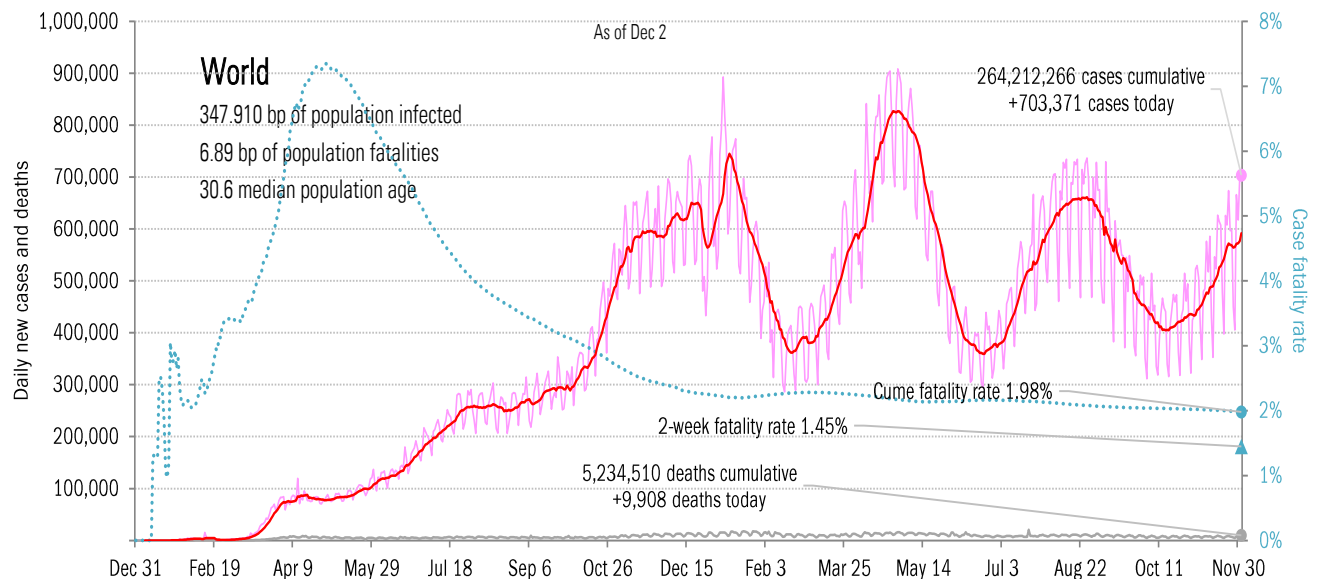
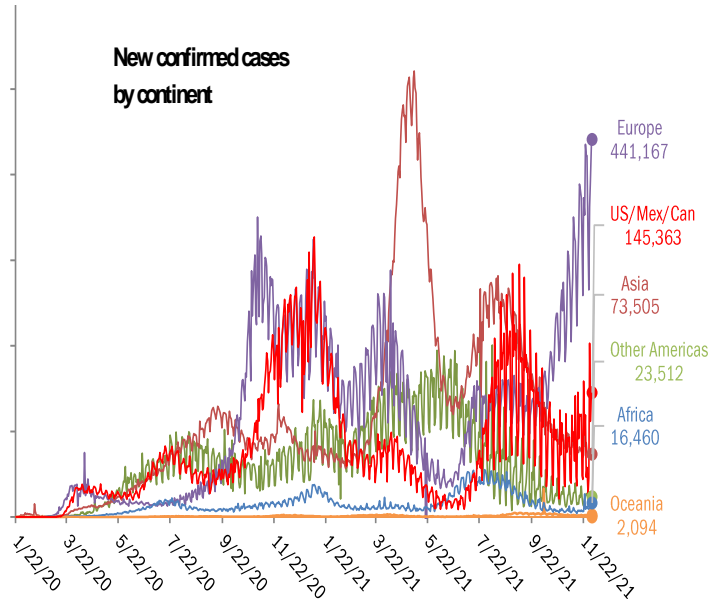
Data Insights: Covid-2019 Monitor

Friday, December 3, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+142,145	United States	+3,787
Germany	+73,279	Russia	+1,188
United Kingdom	+53,528	Ukraine	+558
France	+48,445	Poland	+503
Russia	+32,757	India	+391
Poland	+27,354	Germany	+390
Belgium	+23,113	Hungary	+218
Netherlands	+23,104	Brazil	+215
Turkey	+21,747	Vietnam	+210
Czechia	+21,205	Turkey	+192
+466,677		+7,652	
World	+703,371	World	+9,908
Top ten	66%	Top ten	77%



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

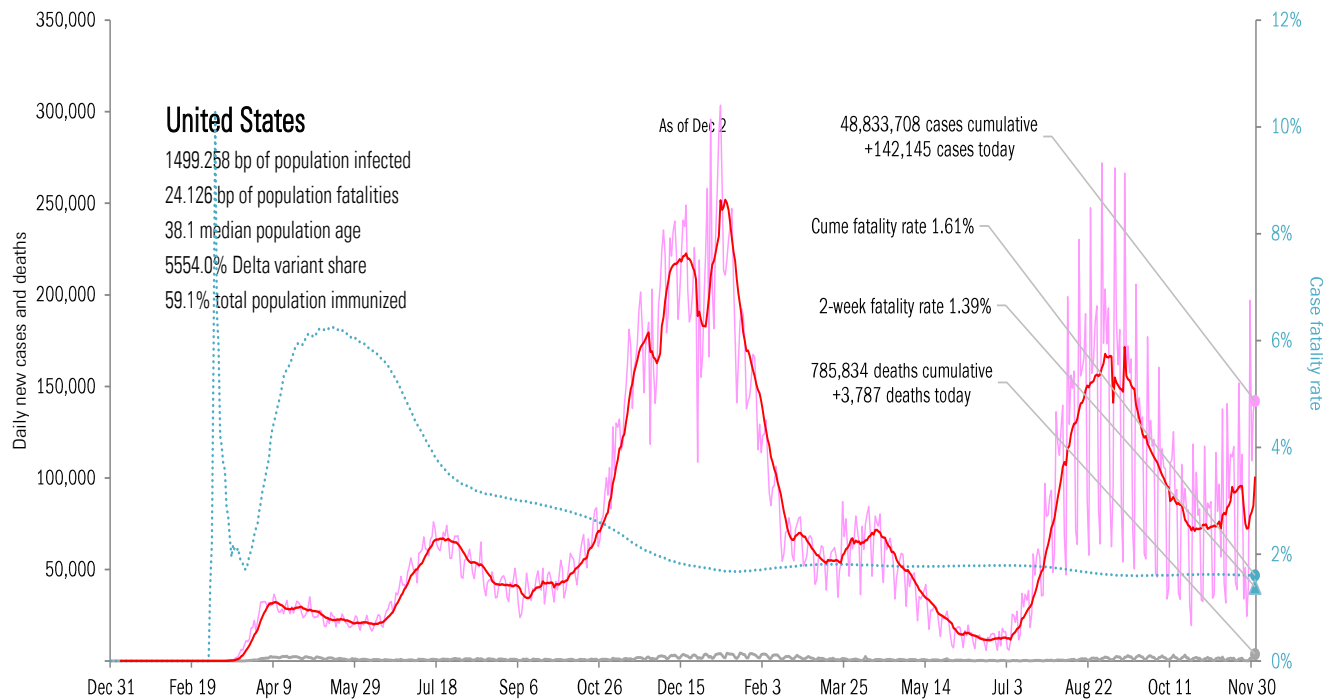
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
IL	+11,524		MO	+2,441		GA	+146		CA	5,097,638		CA	74,669		TX	385,252		RI	89%	ID	94%
NY	+11,359		PA	+128		CH	+102		TX	4,345,433		TX	74,033		FL	323,905		MA	89%	RI	92%
CA	+10,870		CA	+108		NY	+91		FL	3,731,875		FL	61,564		CA	321,377		PA	87%	NM	92%
PA	+9,143		TX	+105		MI	+66		NY	2,750,327		NY	57,643		NY	173,622		MI	85%	VT	91%
CH	+9,131		TN	+100		IL	+58		IL	1,827,518		PA	33,649		GA	163,421		NH	84%	AL	90%
WI	+6,157		WA	+77		KY	+55		PA	1,753,669		GA	30,610		CH	136,458		MO	84%	MI	90%
MA	+5,679		MN	+72		CA	+52		CH	1,708,292		IL	28,932		PA	127,993		WV	84%	CK	89%
IN	+5,546		FL	+69		NJ	+51		GA	1,667,630		NJ	28,420		KY	114,914		MD	83%	KY	88%
MN	+5,307		CO	+60		PA	+51		NC	1,540,824		CH	26,587		IL	111,495		MN	83%	NE	87%
MO	+5,188		NY	+50		AZ	+39		MI	1,494,953		MI	25,798		MI	104,632		ND	83%	MA	86%
+79,904			+3,210			+711			25,918,159			441,905			1,963,069						
All states	+142,145		+3,787			+1032			All states	48,833,708		785,834			3,530,474			All states	70%	67%	
Top ten	56%		85%			69%			Top ten	53%		56%			56%			Median	78%	80%	

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-19,900	MI	-399	TX	-50	WV	+740 bp
KS	-4,287	IA	-91	VA	-40	MP	+70 bp
TX	-947	TN	-55	LA	-23	NE	+30 bp
IA	-924	CK	-36	UT	-23	AZ	+20 bp
KY	-508	MT	-34	MN	-21	DE	+20 bp

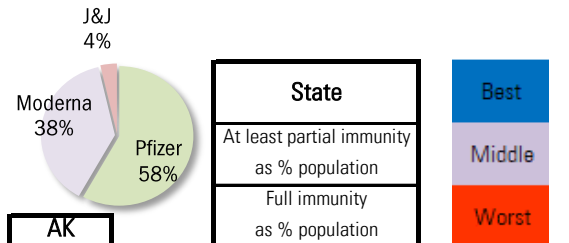


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

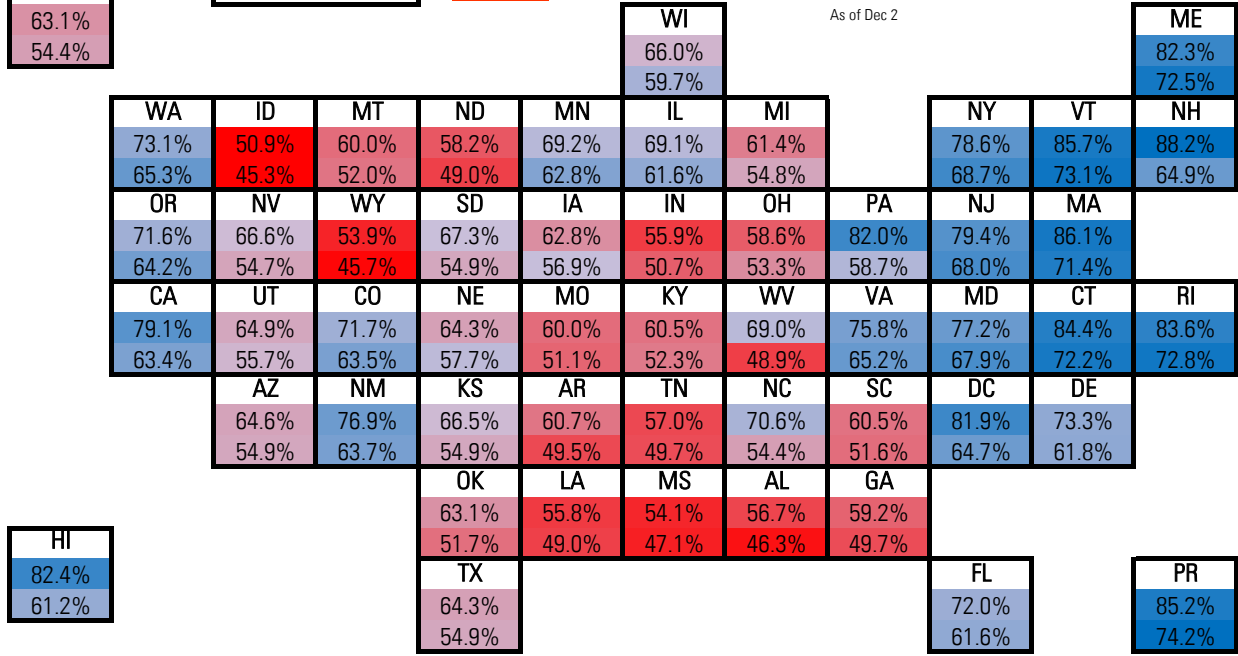
Administered	Cumulative	Today	Immunity	Full	Partial
Doses	477,062,342	+2.221 million	US	59.1%	70.6%
Boosters	86,532,852	+2.092 million	UK	68.1%	74.8%
	One dose	% Pop	Immune	% pop	New immune today
Total population	240,118,741	72%	202,921,279	61%	+0.481 million
Age 12 to 17	14,707,826	62%	12,310,091	52%	+0.031 million
Age 18 to 64	162,965,961	80%	140,161,740	69%	+0.211 million
Age 65 and over	57,023,521	100%	48,984,641	89%	+0.052 million

France	69.9%	77.0%
Spain	80.5%	82.1%
Germany	68.2%	71.1%
Italy	73.1%	78.4%
Australia	73.3%	77.8%
Israel	62.2%	68.4%
Canada	76.3%	80.3%
Japan	77.4%	79.2%
Africa	7.5%	11.3%
India	33.1%	57.0%
Brazil	63.2%	76.8%
China	76.9%	84.8%

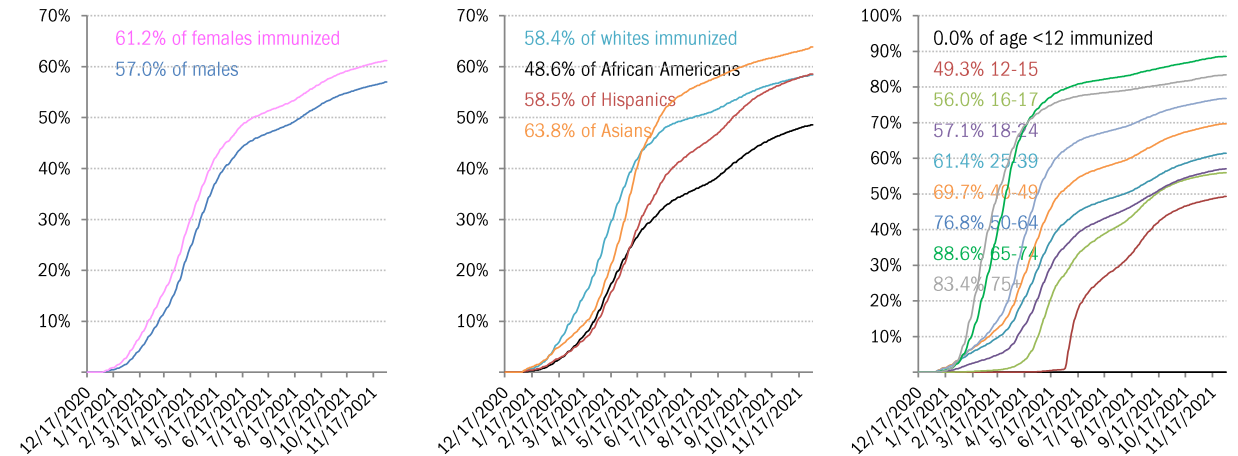


Every American >18 immunized in **52 days** by Jan 23, 2022
 73.1% of population >18 immunized
 17.2% previously tested positive
90.3% vs 60% adult herd immunity

Global data differs due to sources, timing



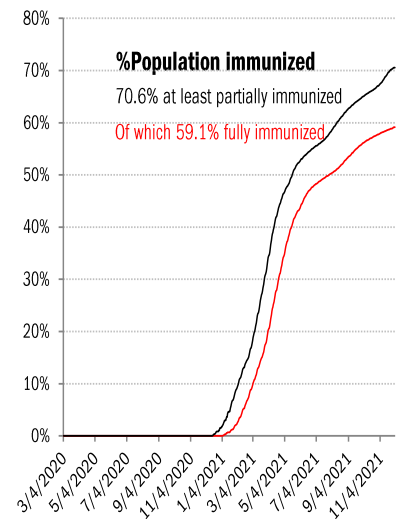
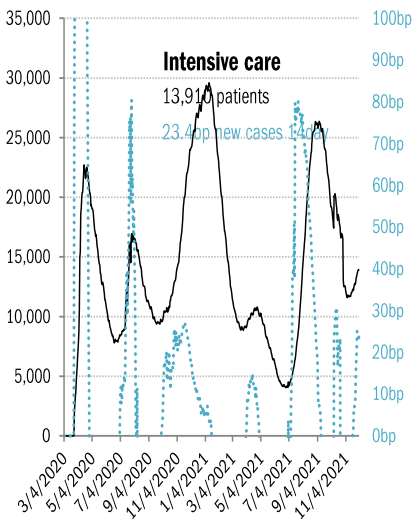
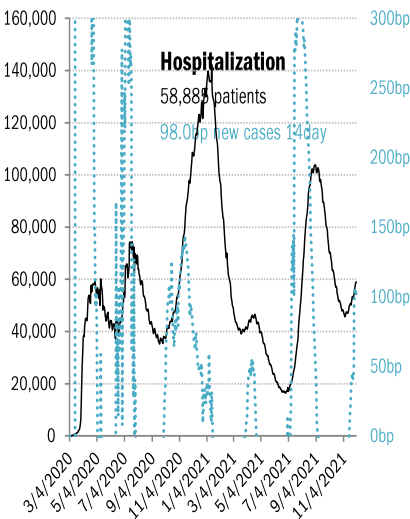
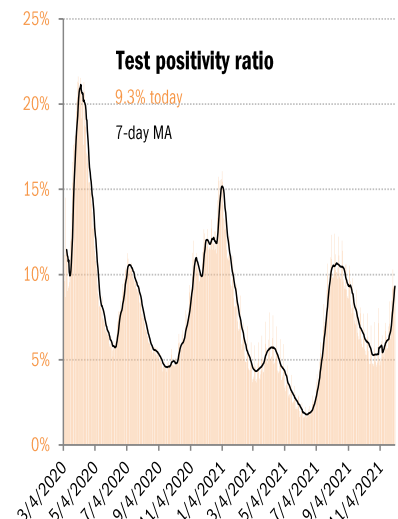
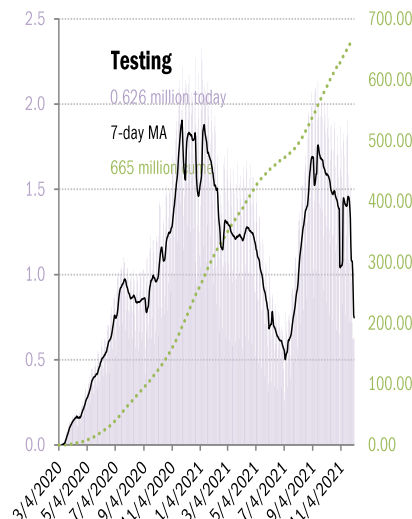
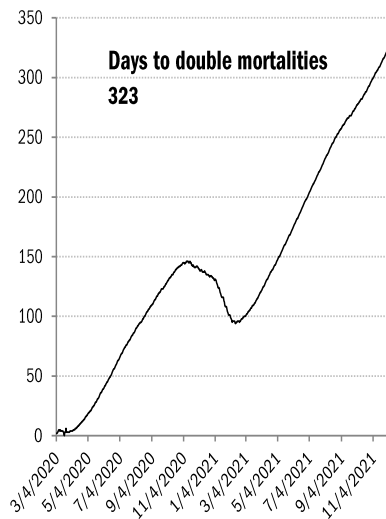
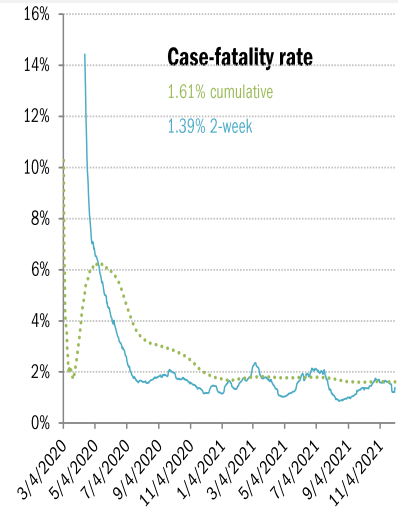
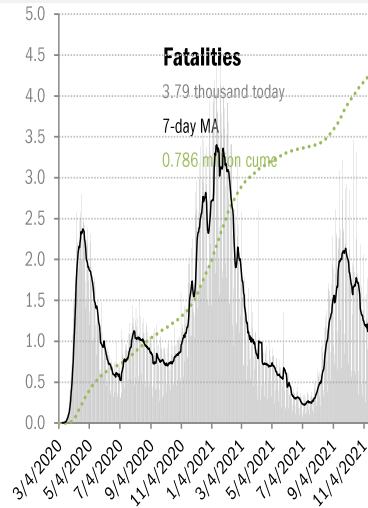
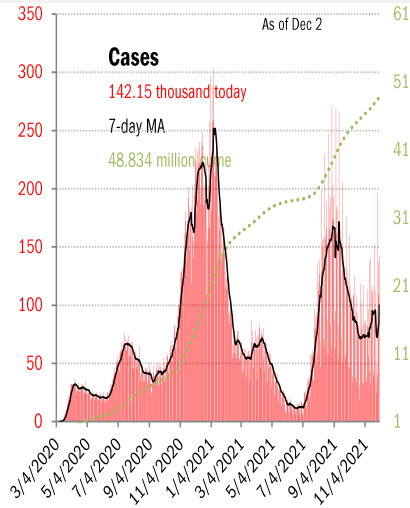
The demographics of US vaccination



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

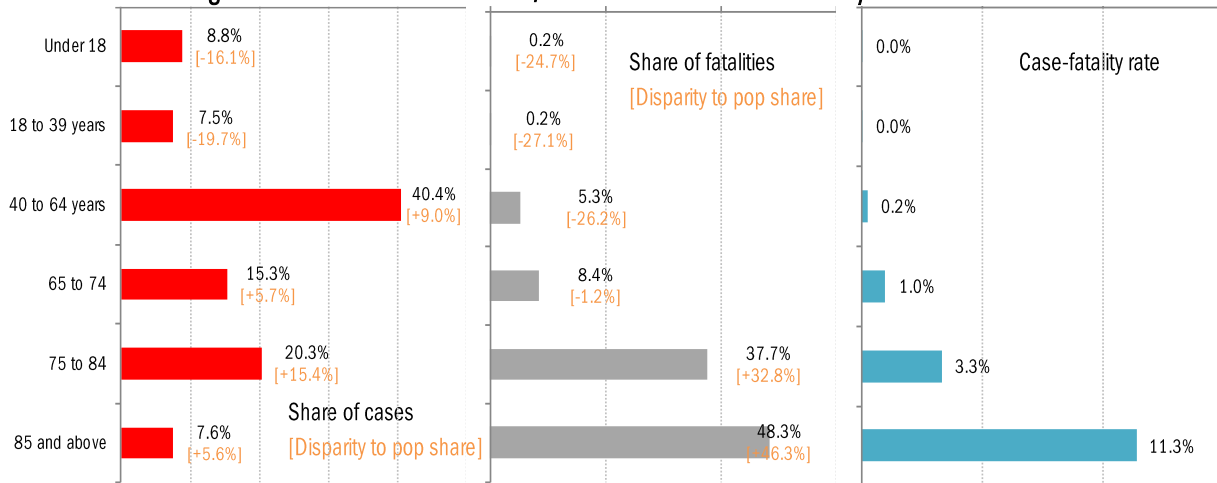
US deep-dive

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

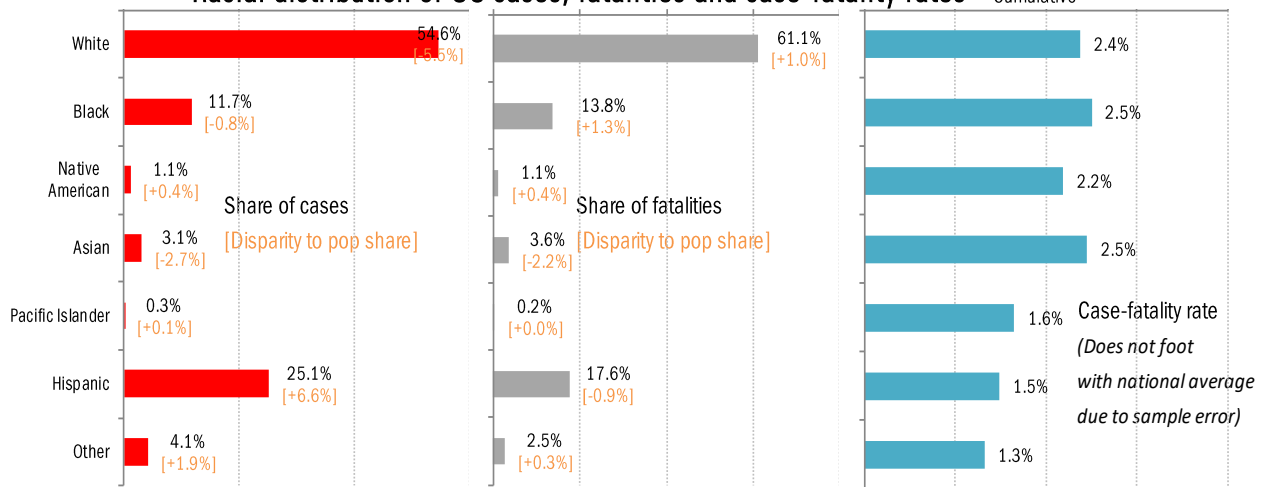


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

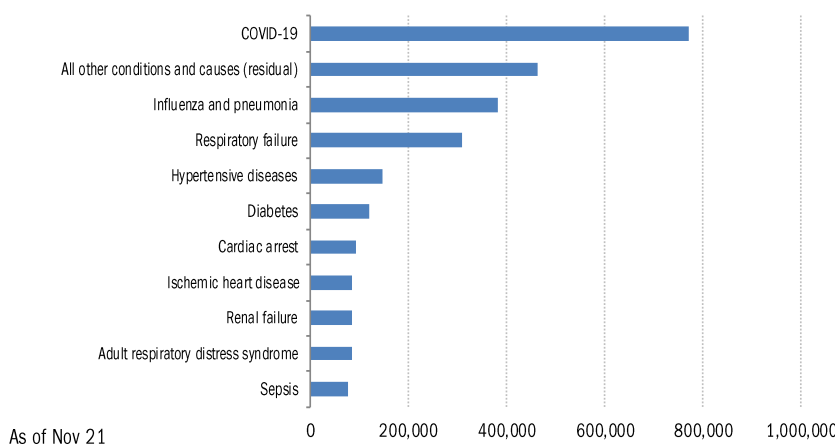


Racial distribution of US cases, fatalities and case-fatality rates



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

[Covid-19 and the Right to Travel](#)

Eugene Kontorovich
Wall Street Journal
December 2, 2021

[Madrid, the City That Wouldn't Lock Down](#)

Adam O'Neal
Wall Street Journal
December 2, 2021

[Manchin to vote to nix Biden's vaccine mandate for larger businesses](#)

Jordain Carney
The Hill
December 2, 2021

[President Biden Announces New Actions to Protect Americans Against the Delta and Omicron Variants as We Battle COVID-19 this Winter](#)

White House
December 2, 2021

[Background Press Call by Senior Administration Officials on New Actions to Protect Americans Against the Delta and Omicron Variants This Winter](#)

White House
December 2, 2021

[New York City Sets Vaccine Mandate for Religious and Private School Workers](#)

Emma G. Fitzsimmons
New York Times
December 2, 2021

['Time to discuss' mandatory vaccines in EU, Ursula von der Leyen says](#)

Chris Pleasance
Daily Mail
December 1, 2021

[COVID-19: Most Americans Won't Let It Affect Holiday Plans](#)

Rasmussen
December 2, 2021

[Boston's Eviction Ban Overreach](#)

Wall Street Journal
December 2, 2021

[CDC orders US airlines to turn over names of all passengers who've arrived this week from eight African countries facing Omicron travel restrictions](#)

Mary Kekatos
Daily Mail
December 1, 2021

[Confusion Reigns as Japan Wavers on Inbound Flight Booking Ban](#)

Takahiko Hyuga and Shiho Takezawa
Bloomberg
December 1, 2021

[GSK Says Antibody Works on Omicron Mutations in Early Tests](#)

Suzi Ring
Bloomberg
December 2, 2021

[Pfizer Executive Expects Vaccine to Hold Up to Omicron](#)

Naomi Kresge, Anna Edwards, and Mark Cudmore
Bloomberg
December 2, 2021

[No Evidence Omicron Is Deadlier, Australia Health Chief Says](#)

Ainslie Chandler
Bloomberg
December 1, 2021

[The epidemiological relevance of the COVID-19-vaccinated population is increasing](#)

Günter Kampf
The Lancet
November 19, 2021

[Omicron Could Overtake Delta in Europe in Months, ECDC Says](#)

Kevin Whitelaw
Bloomberg
December 2, 2021

**Before
2020**

What doesn't
kill you
makes
you stronger

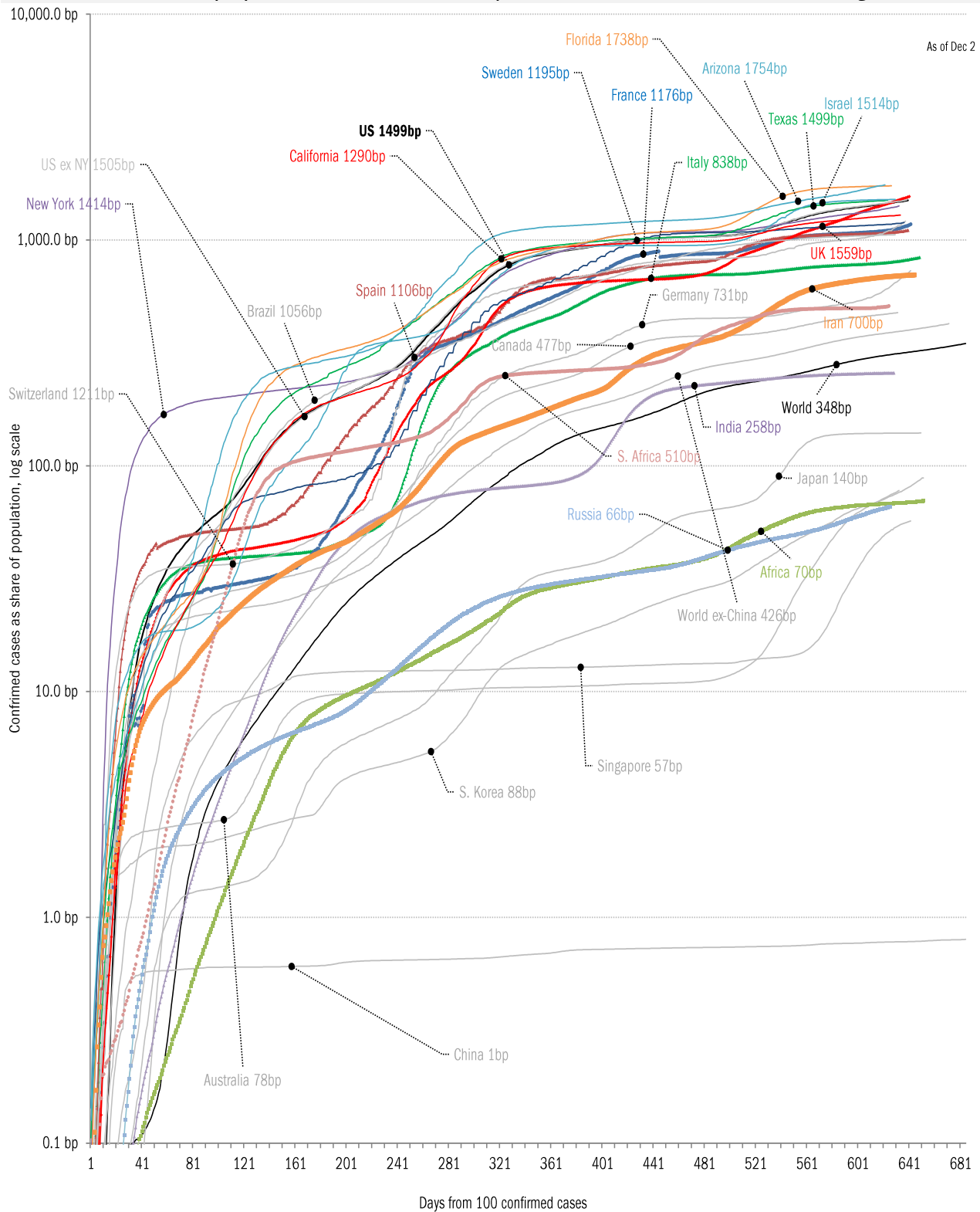
**After
2020**

WHAT DOESN'T
KILL YOU
MUTATES AND
TRIES AGAIN

made with mematic

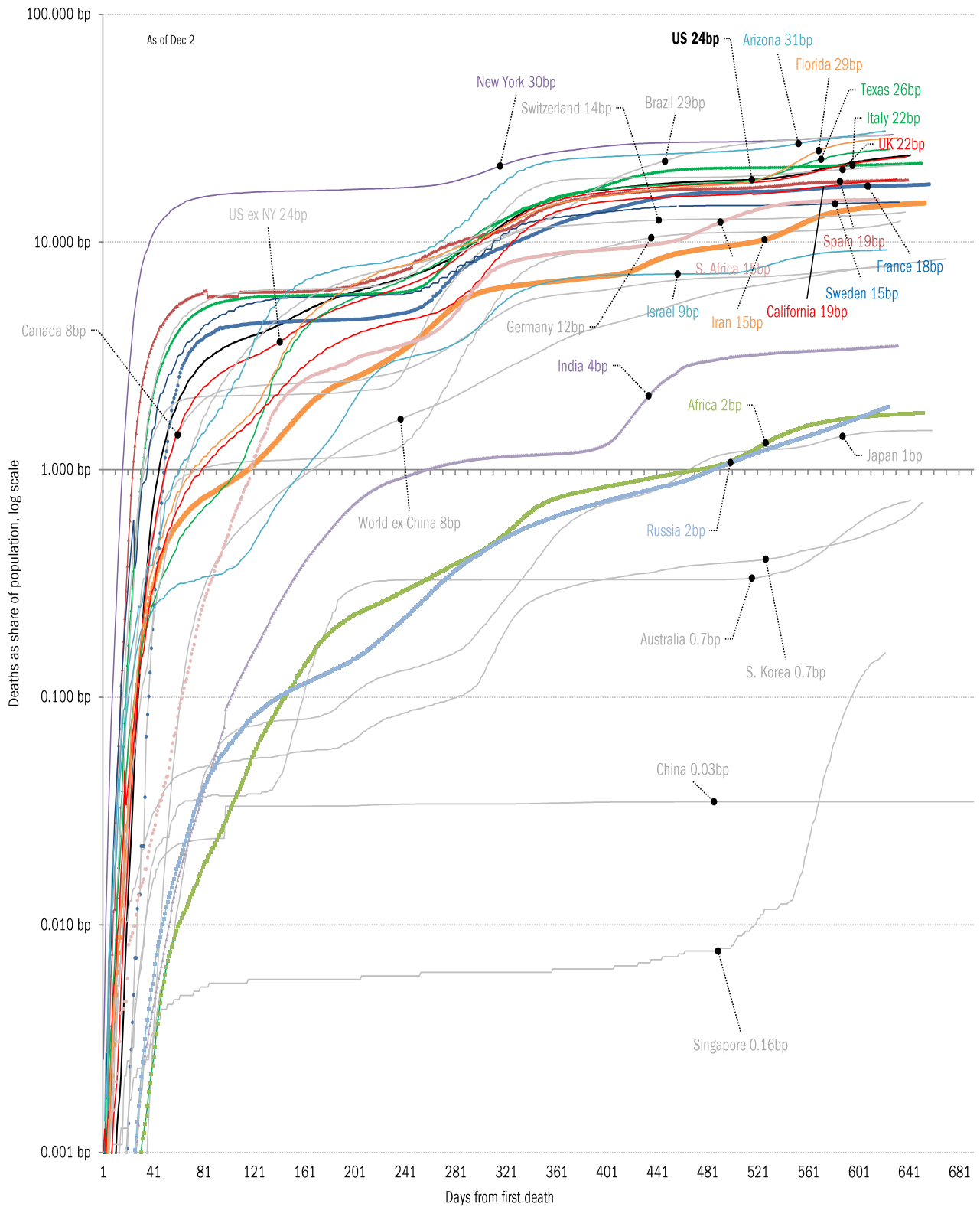
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

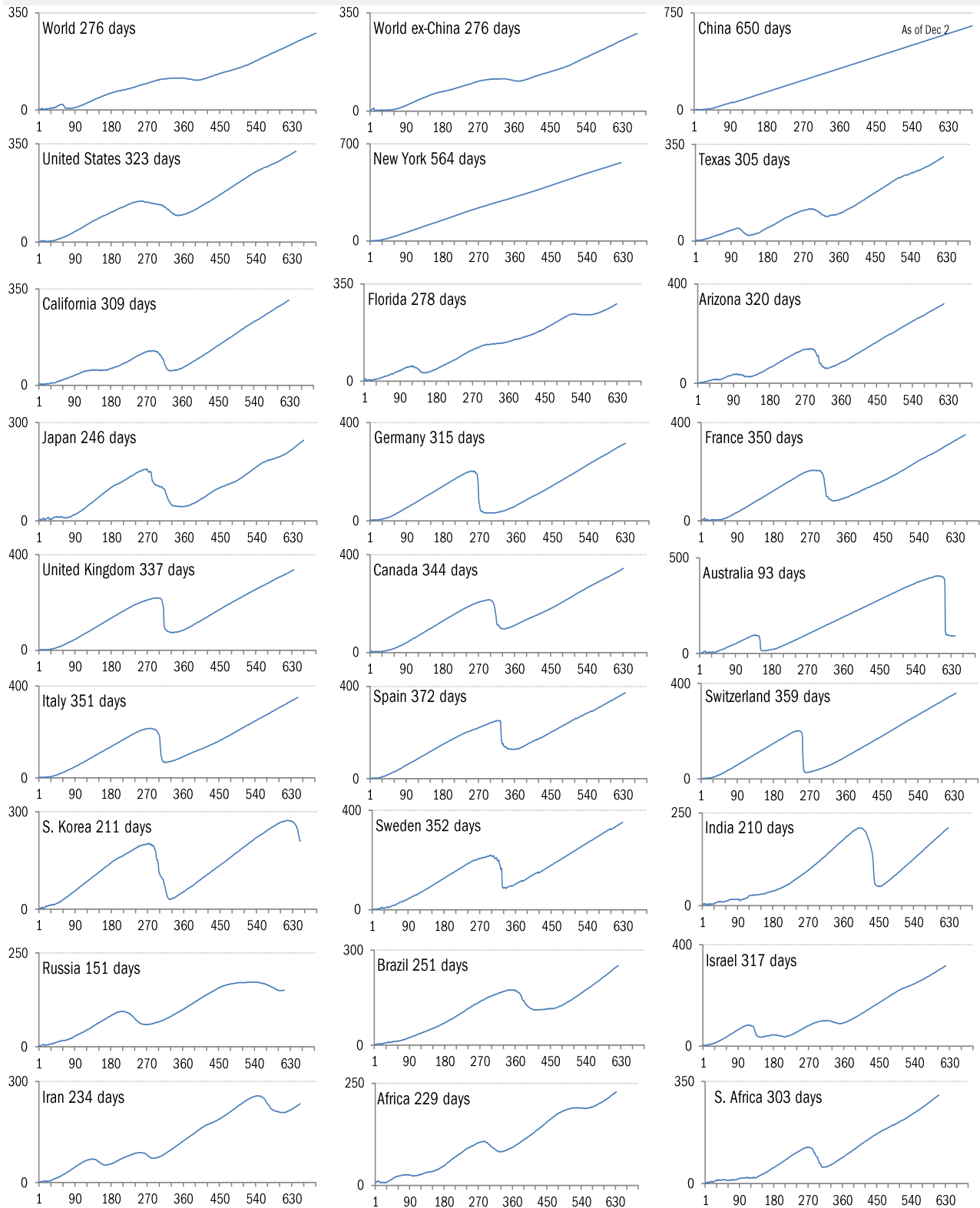


Source: [Johns Hopkins](#), TrendMacro calculations

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

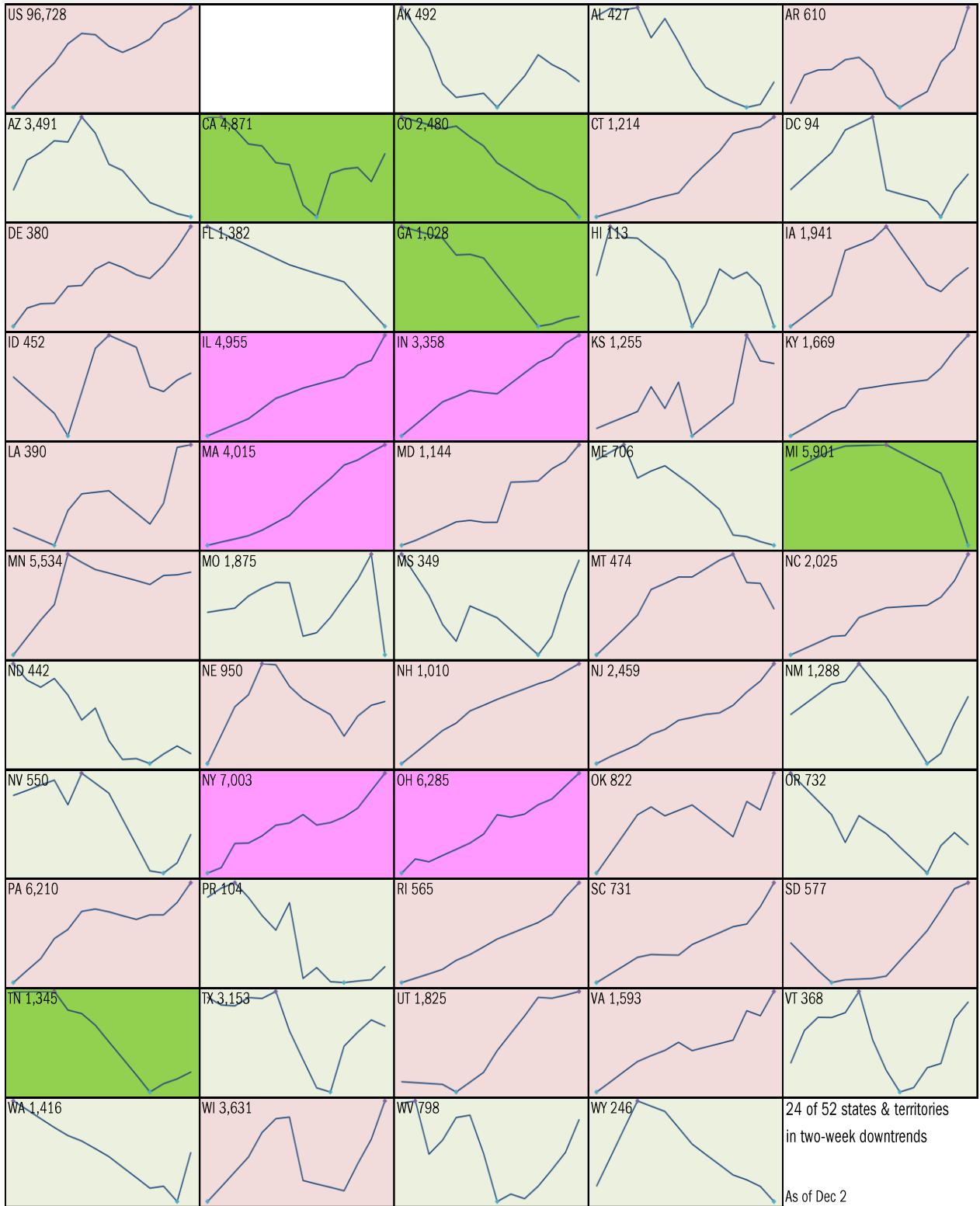
Vertical: days to double deaths Horizontal: days from first death

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

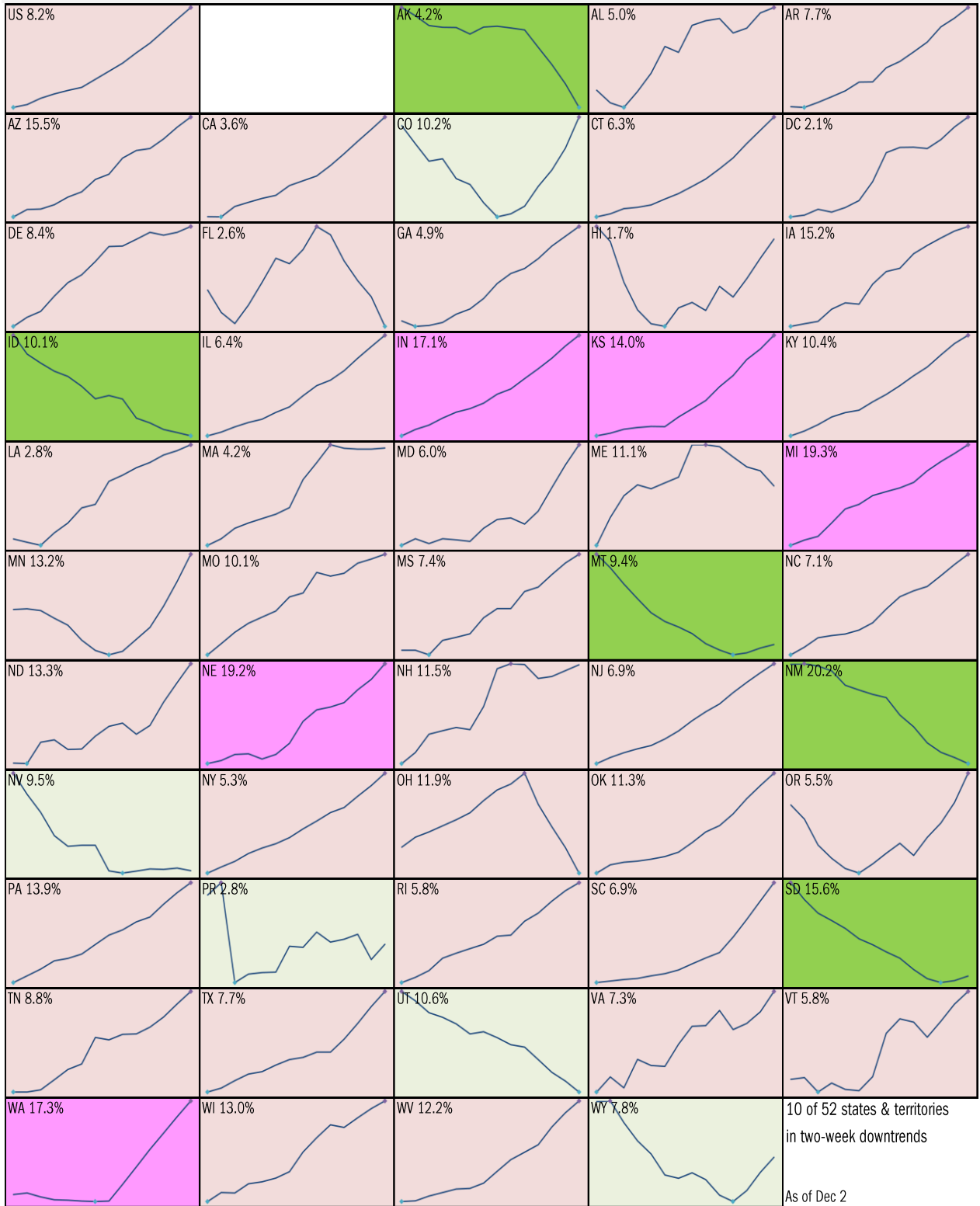


Source: [Johns Hopkins](#), TrendMacro calculations

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

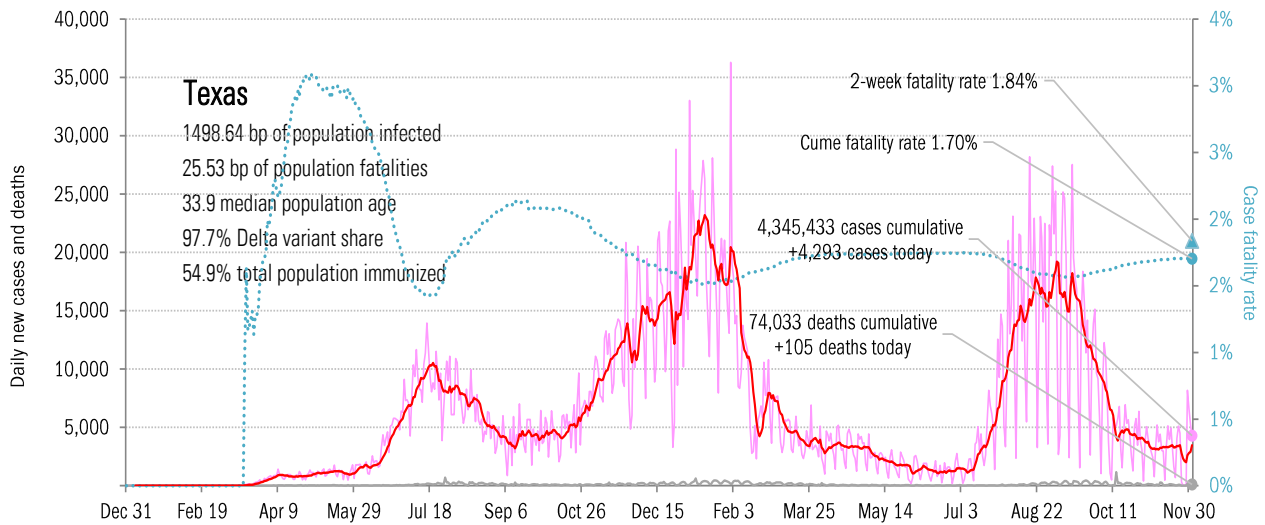
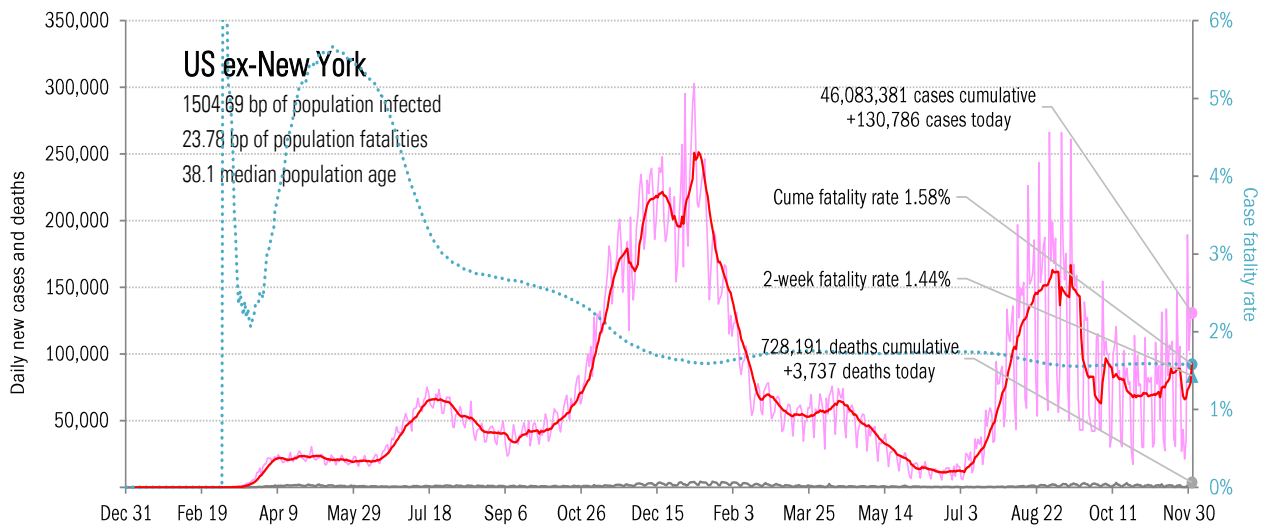
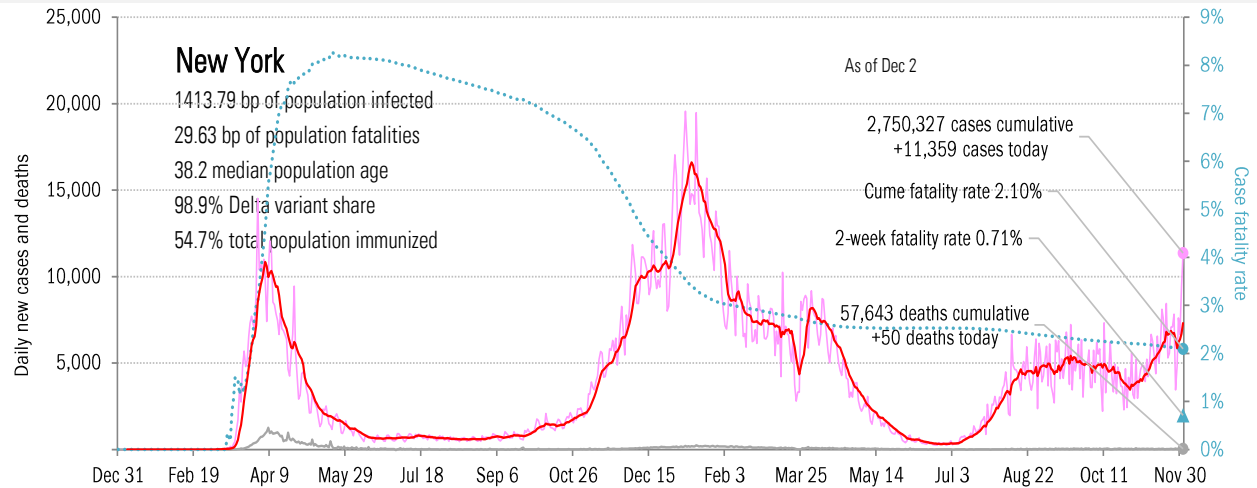
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

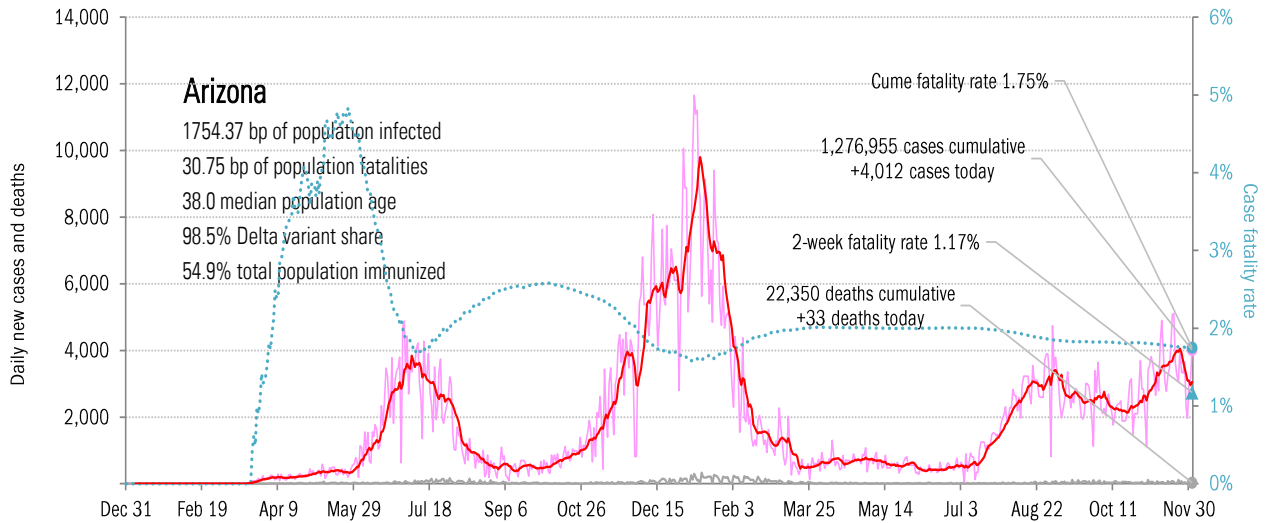
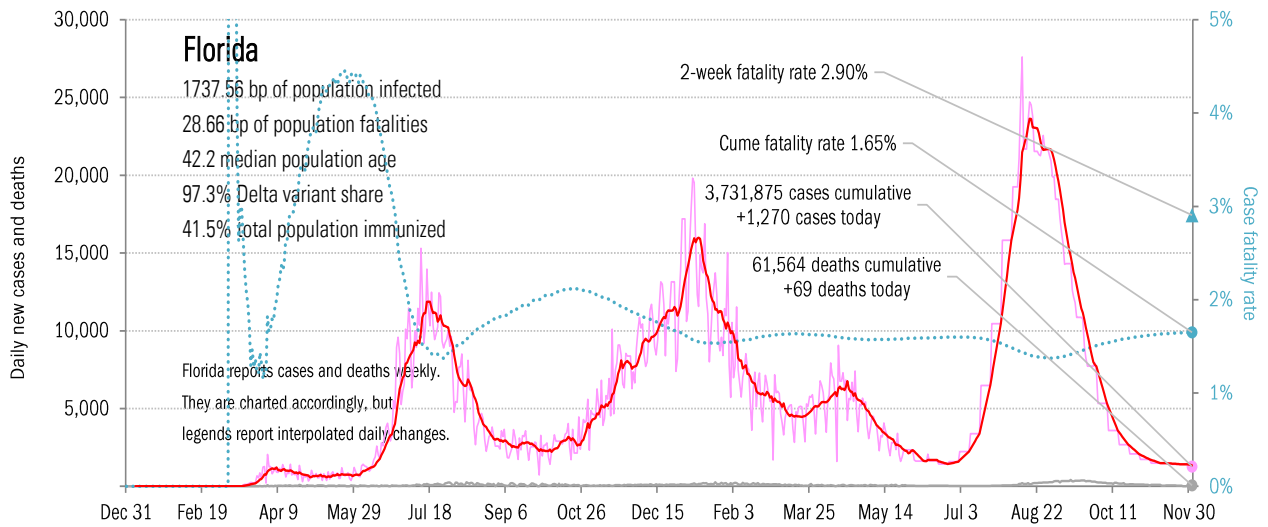
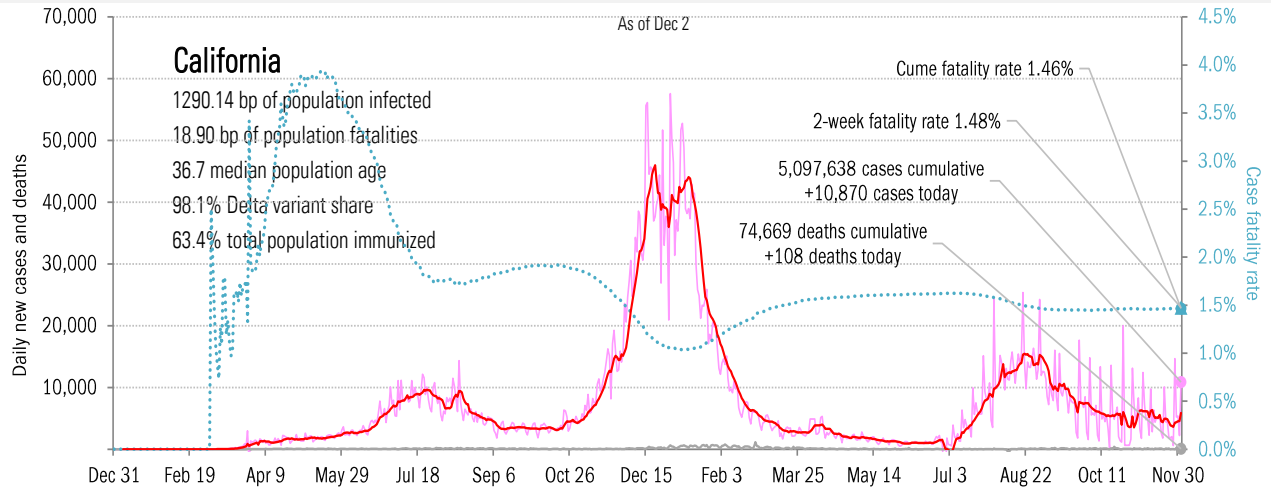
Cases: 7-day average and daily Deaths: Daily



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

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

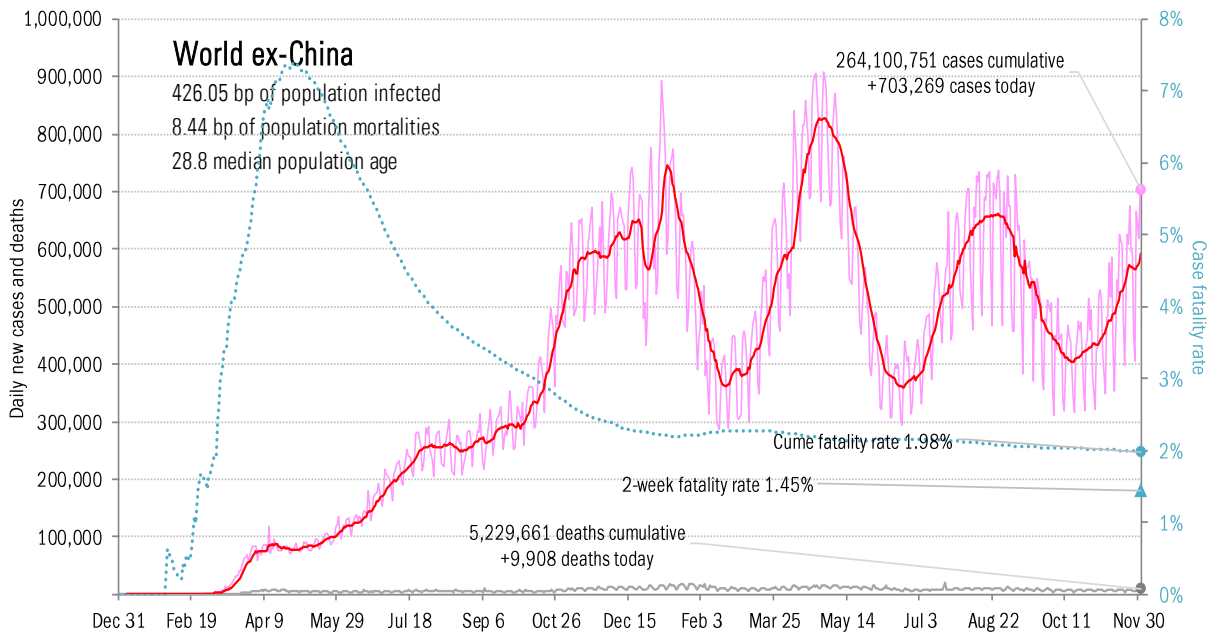
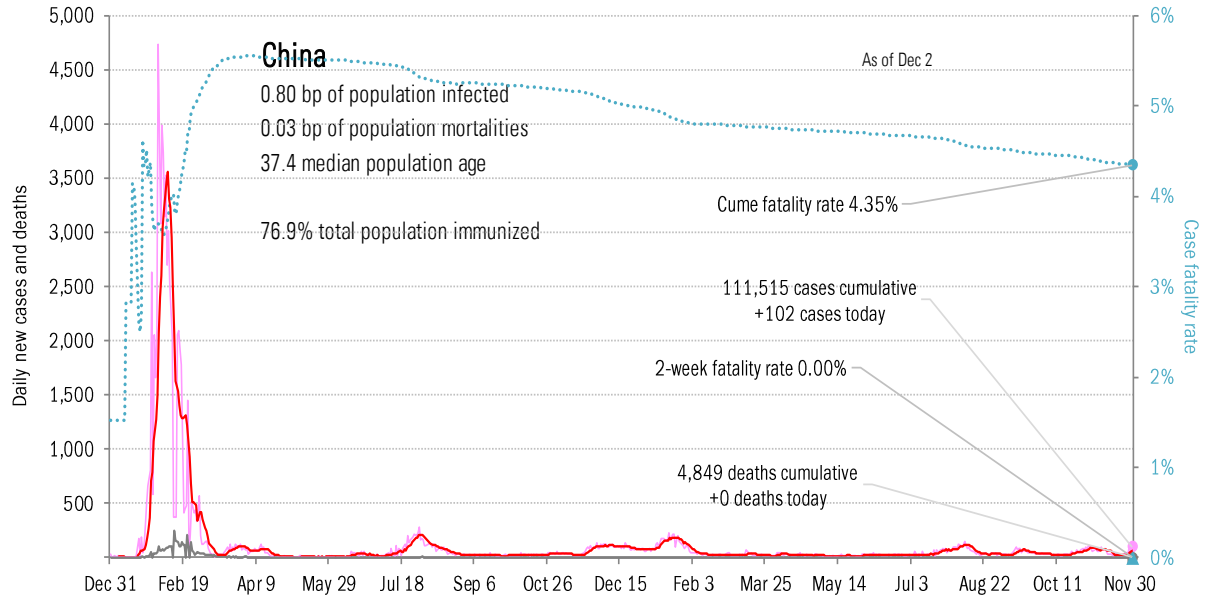
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

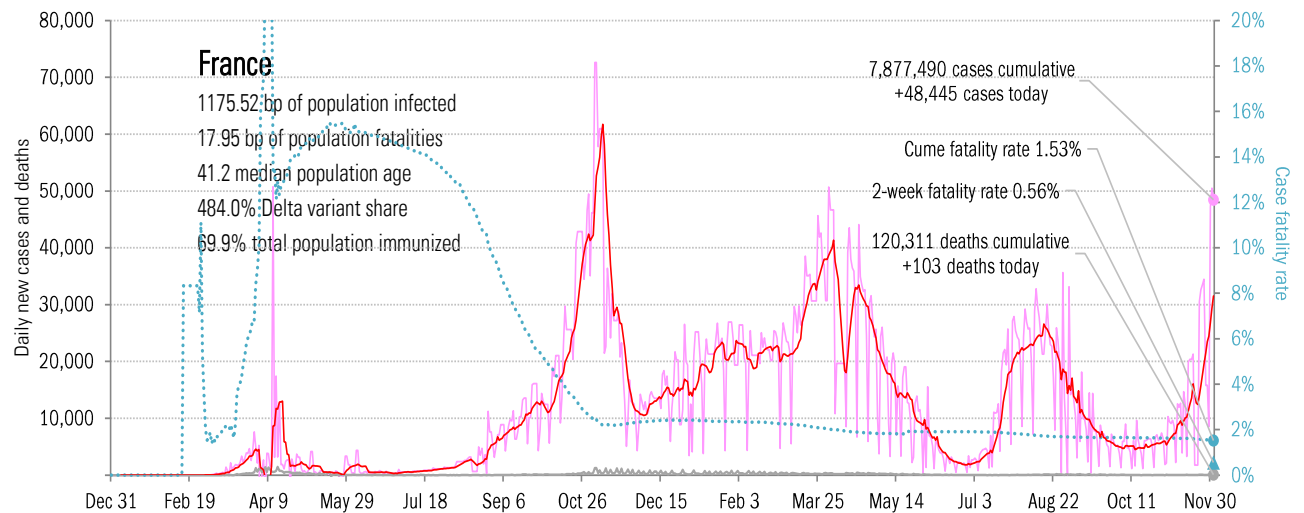
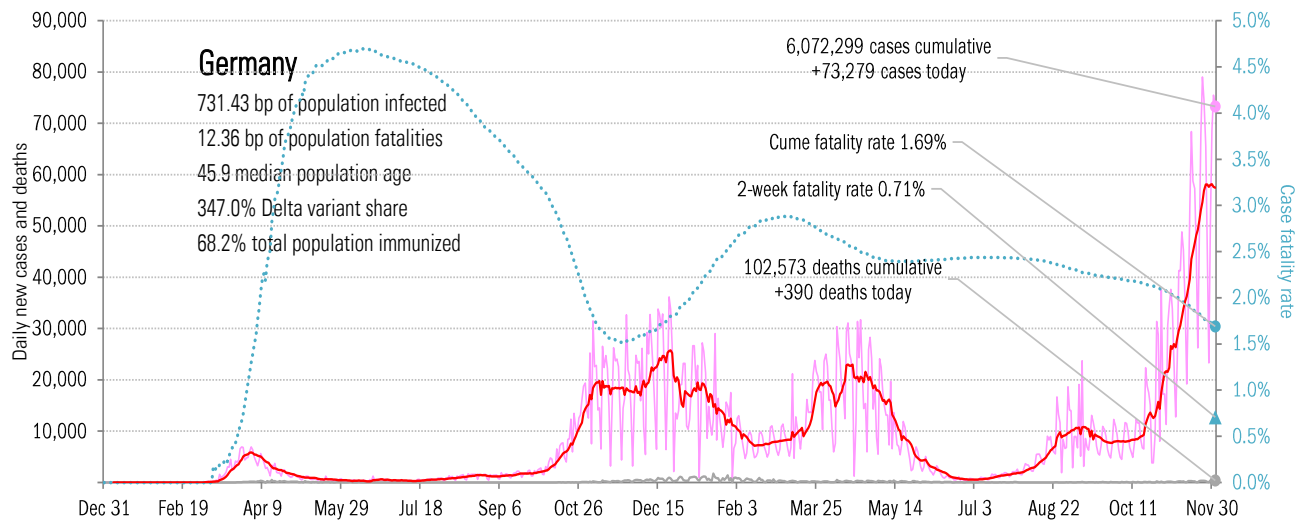
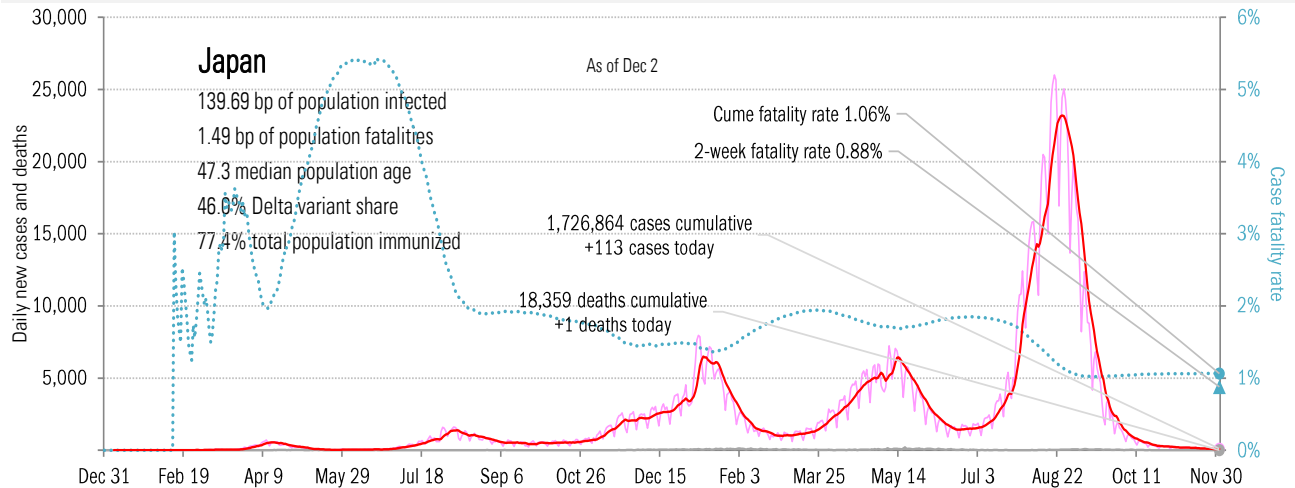
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

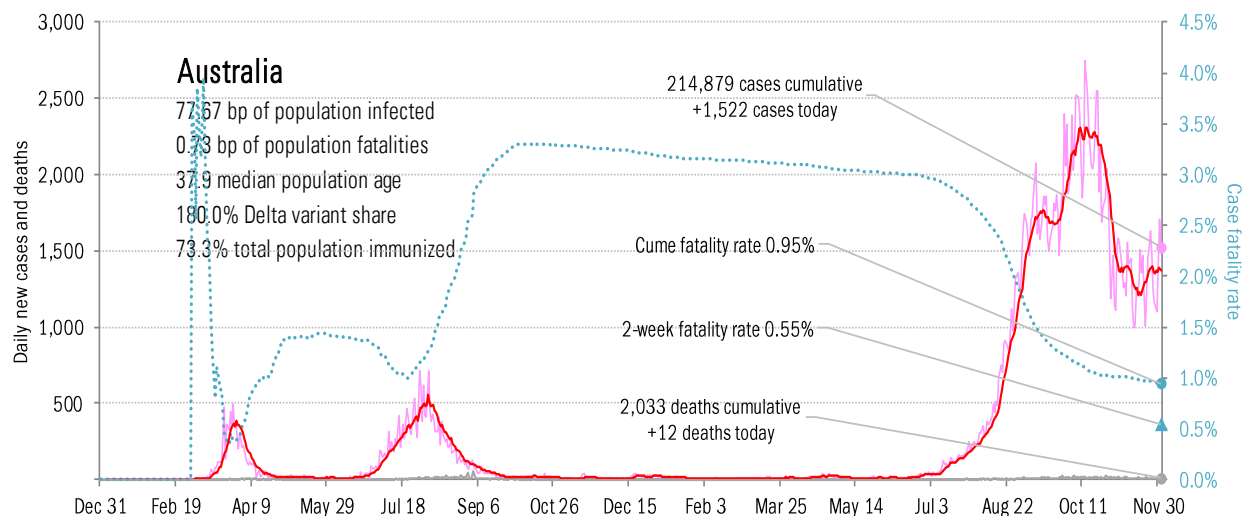
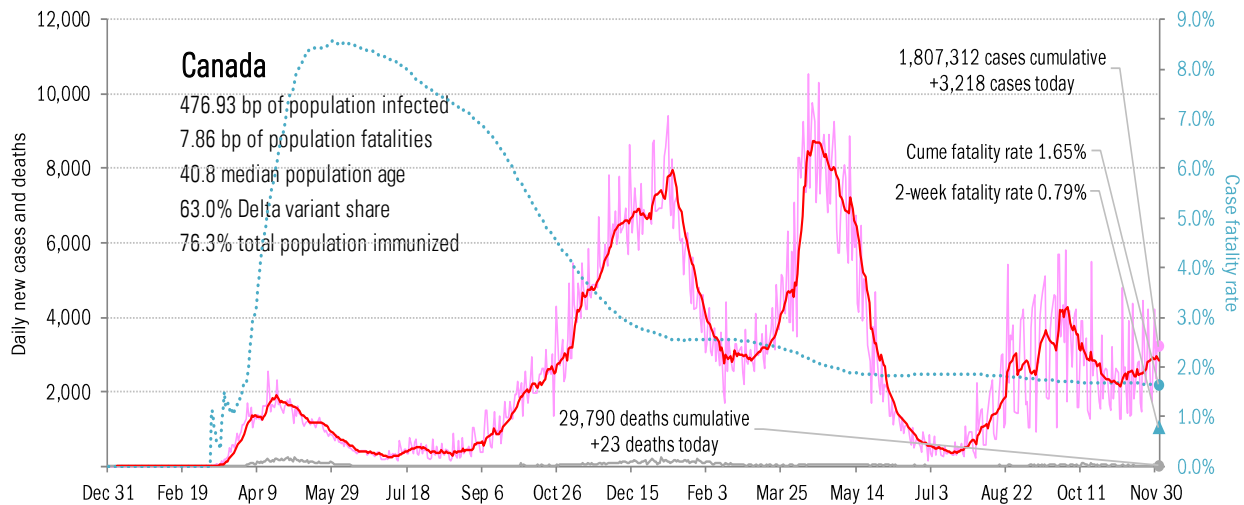
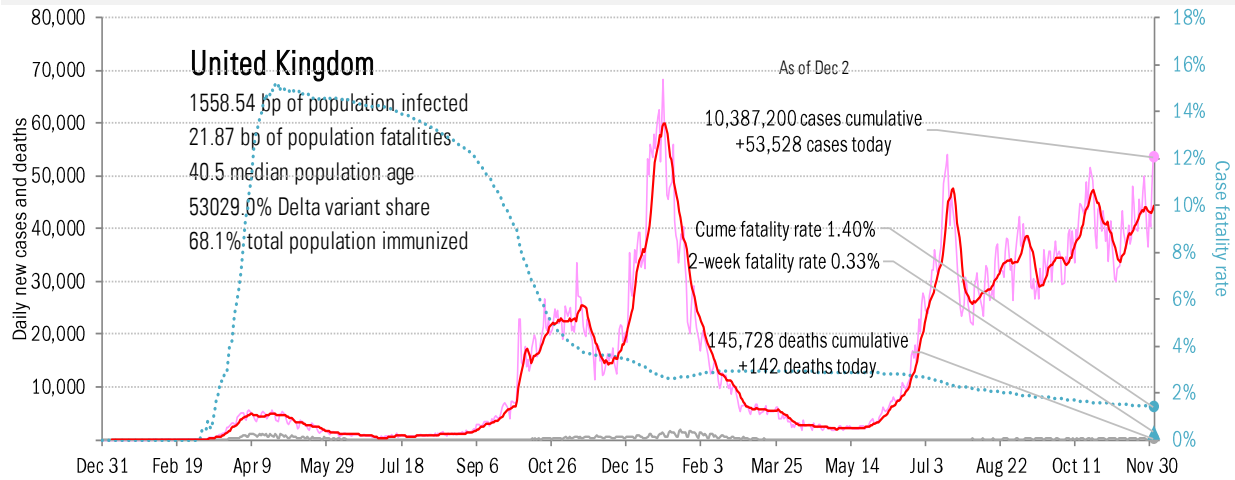
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

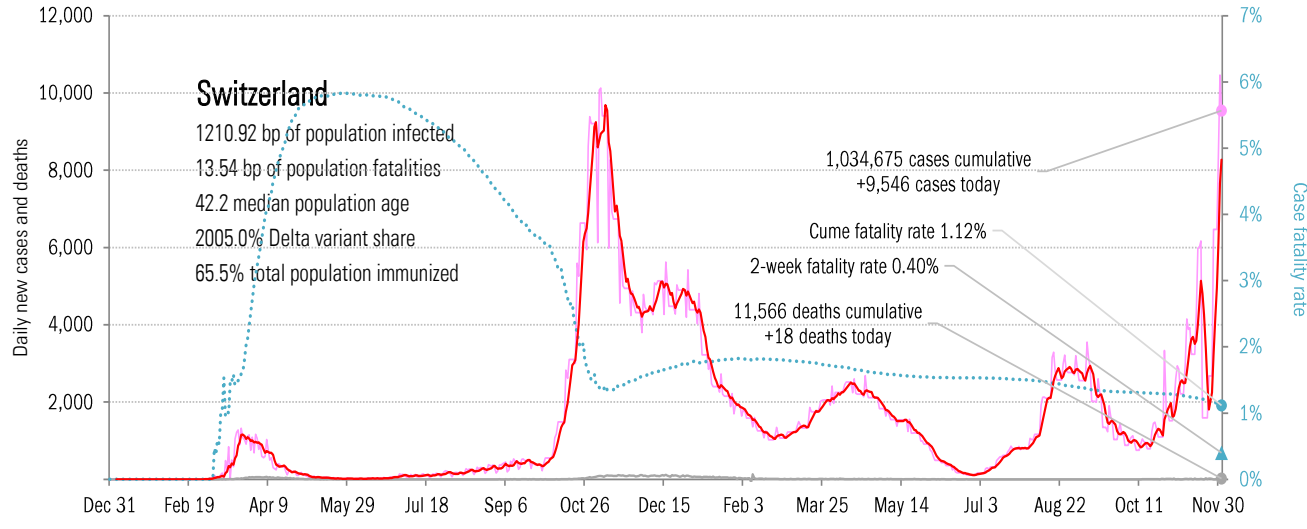
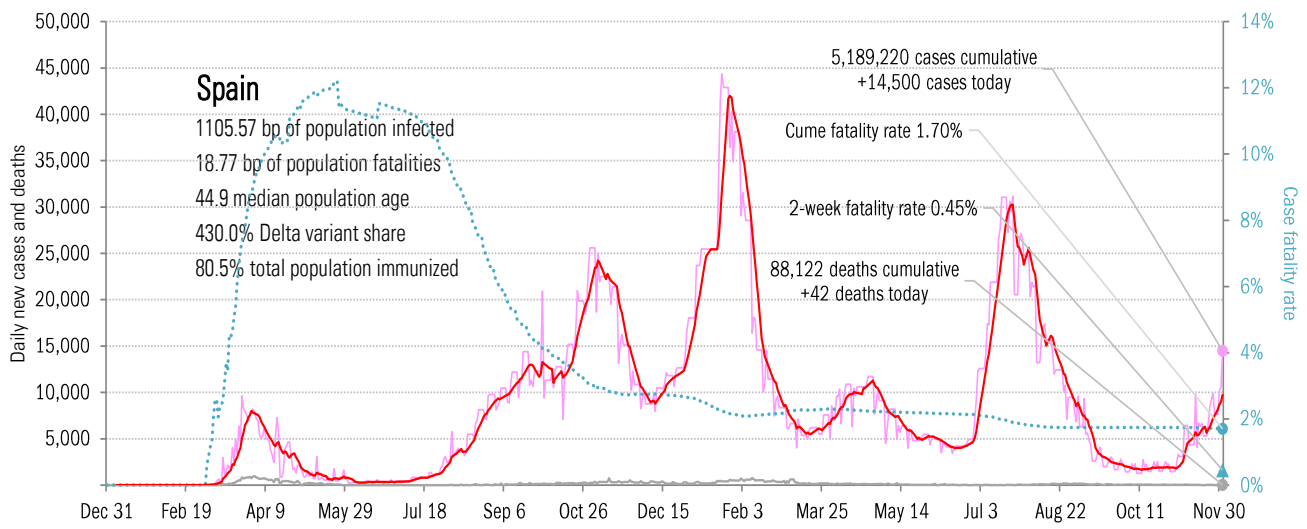
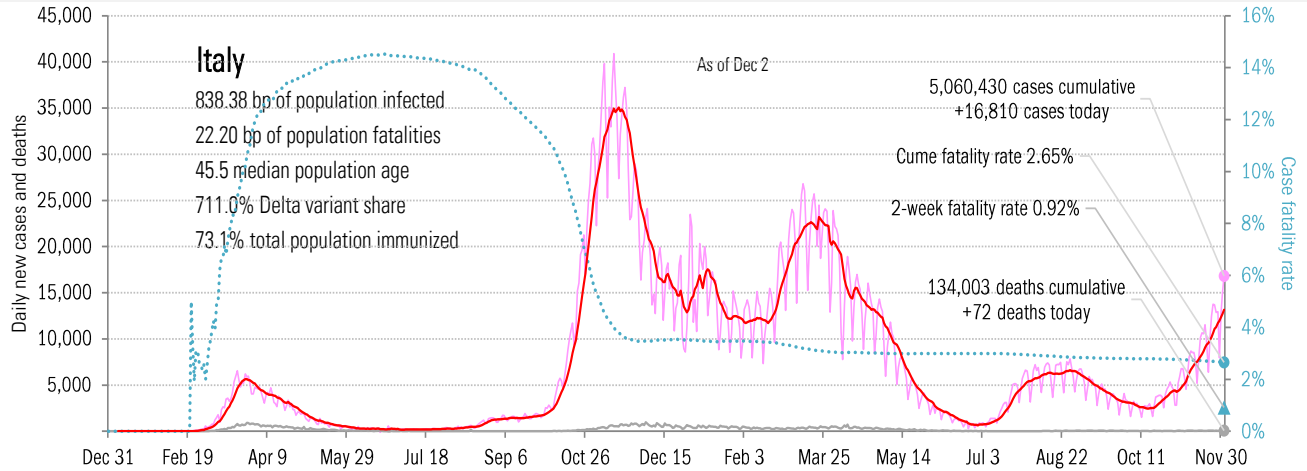
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

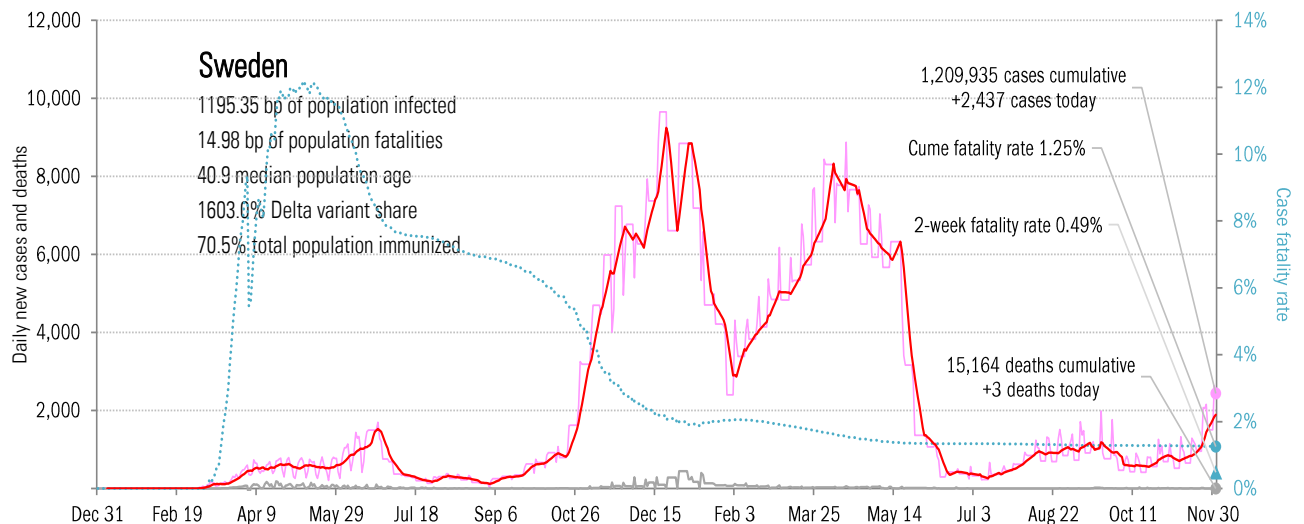
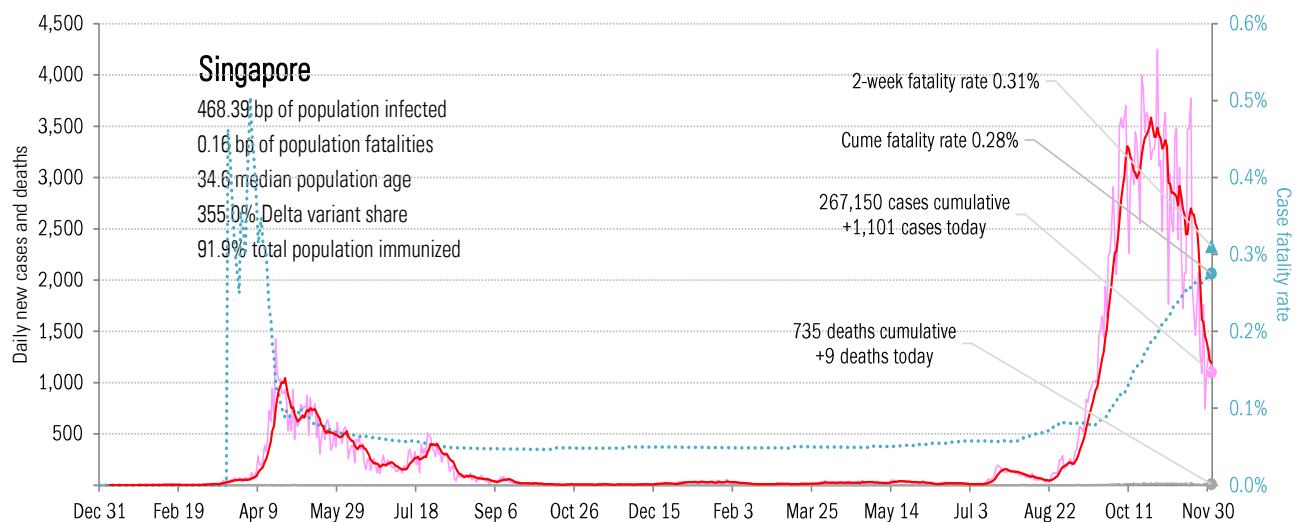
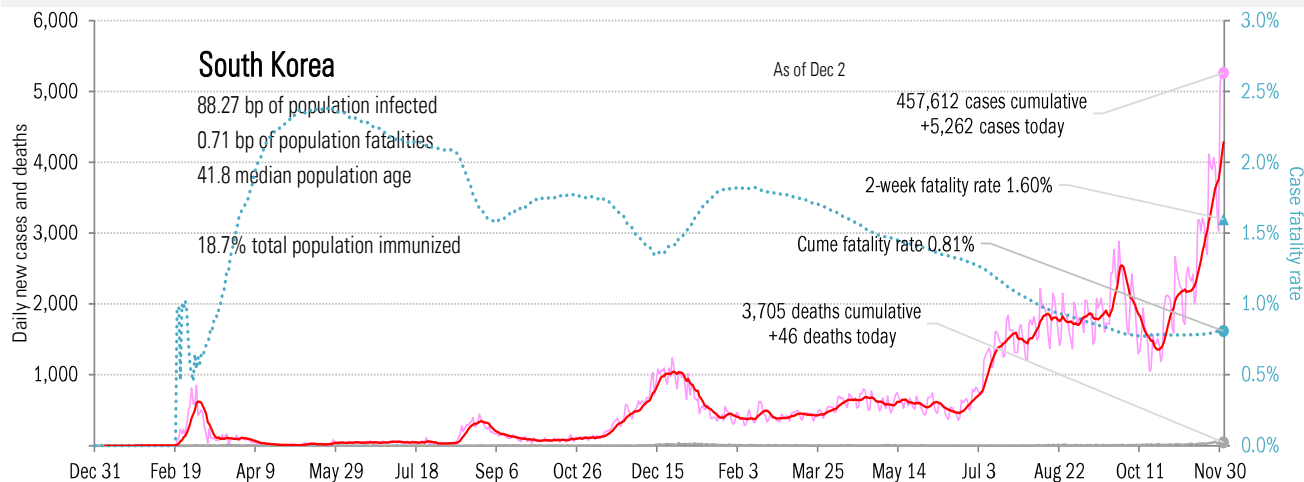
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

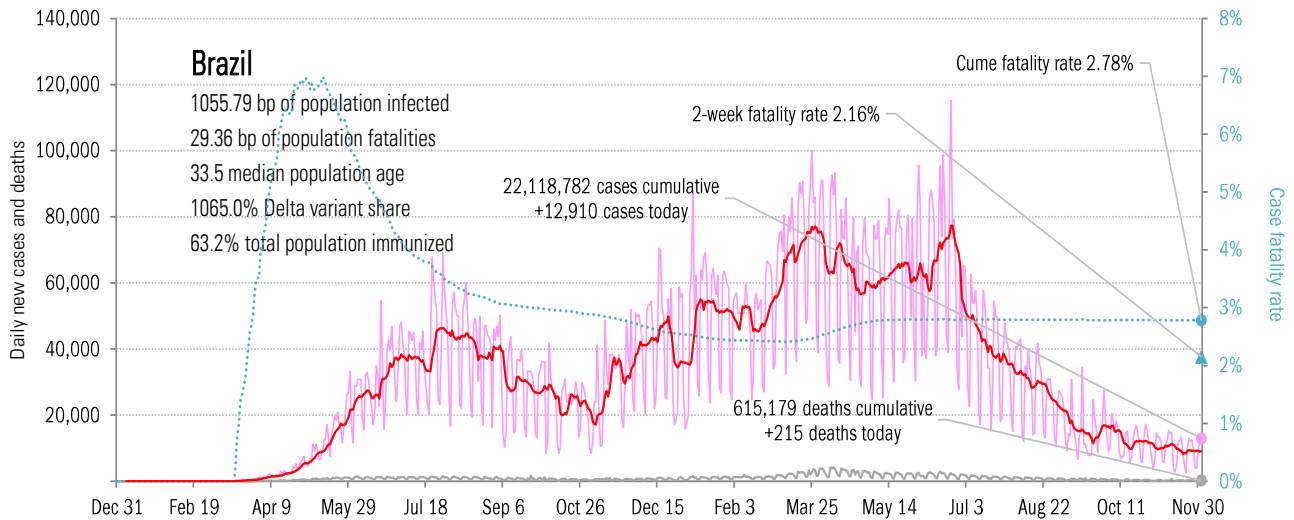
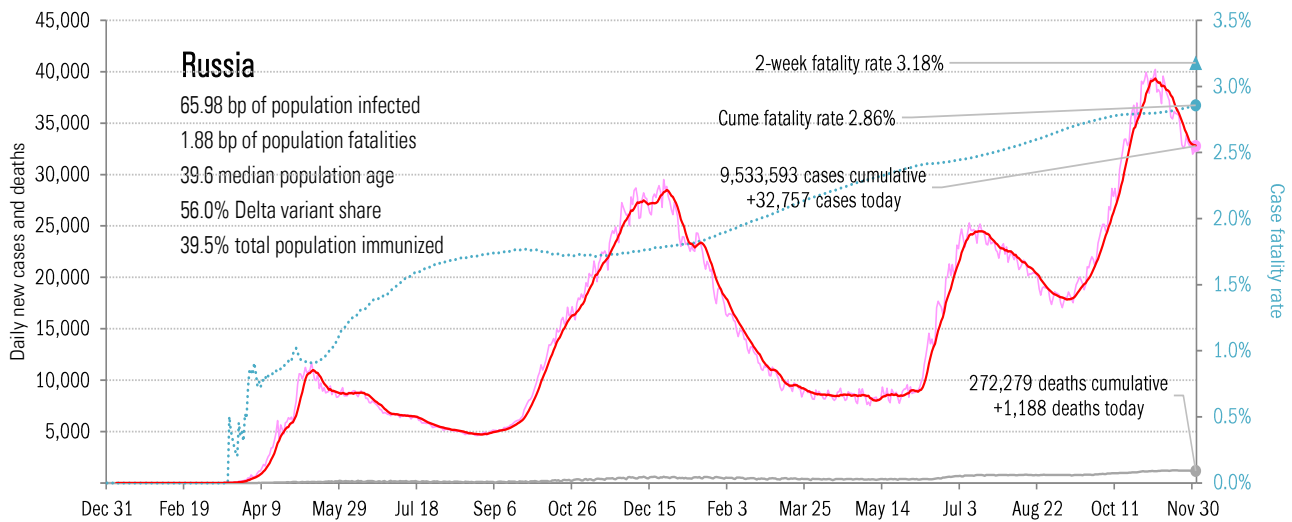
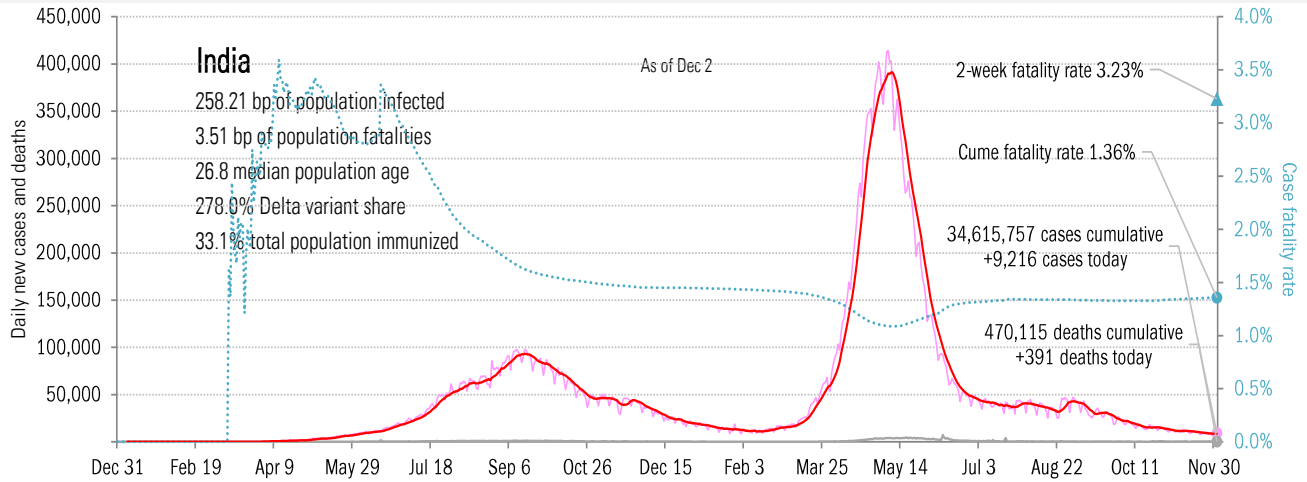
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

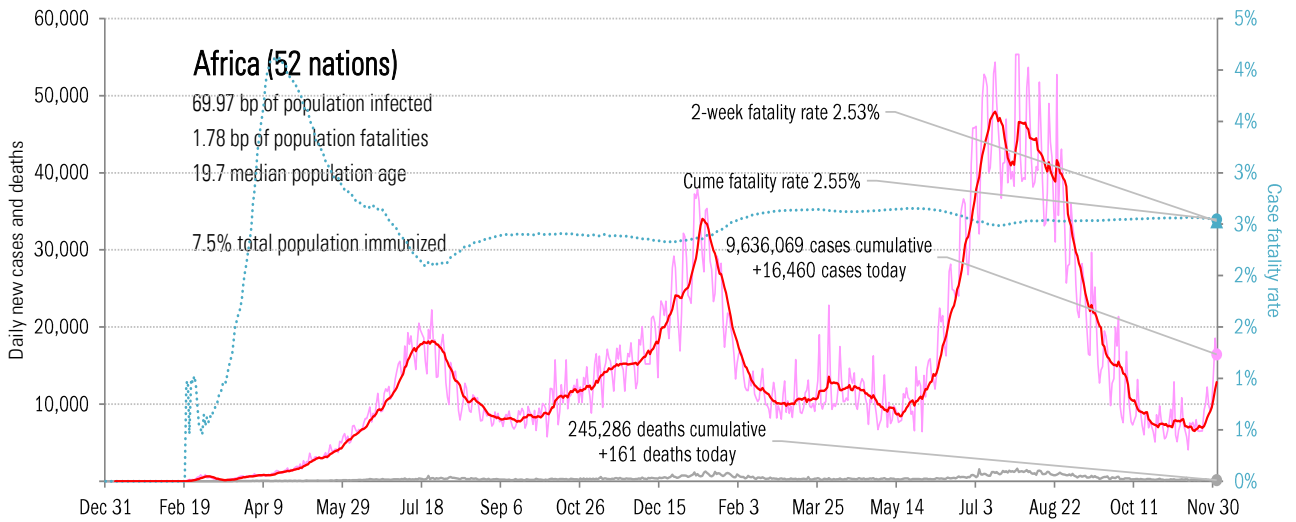
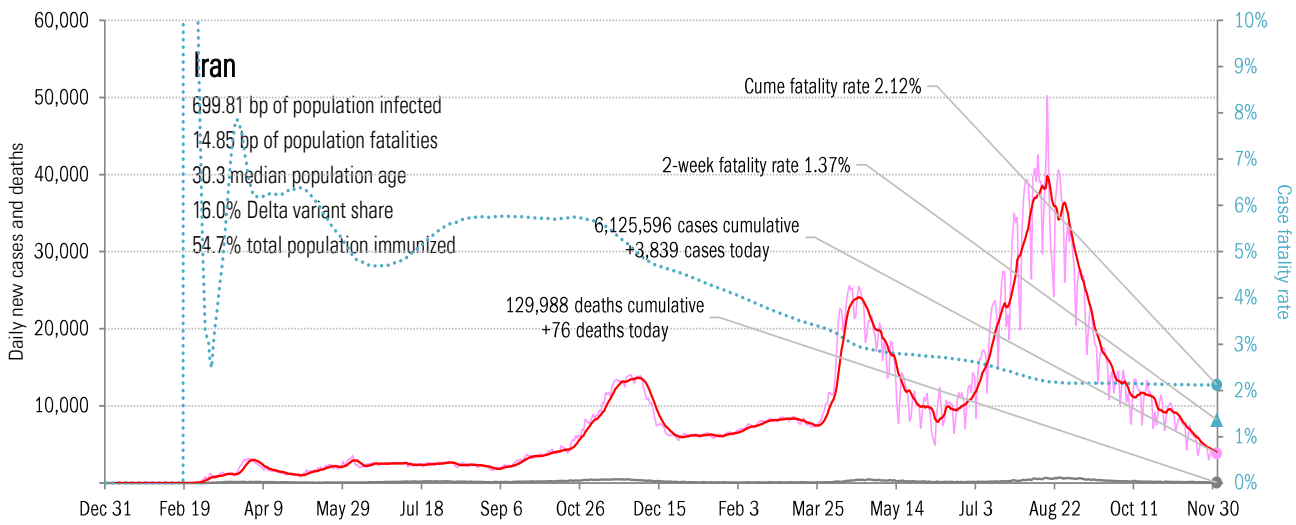
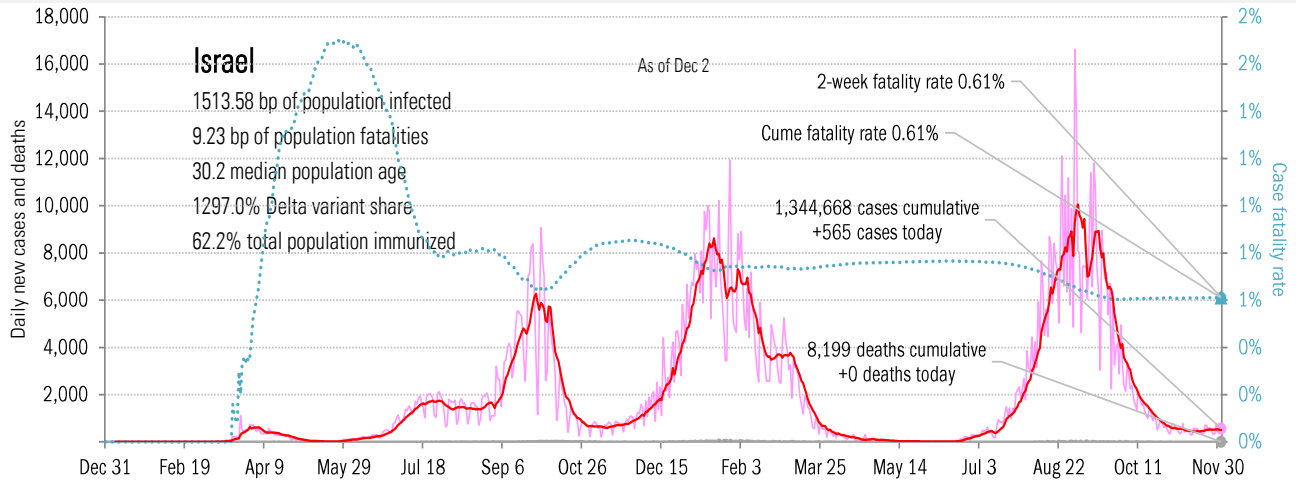
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

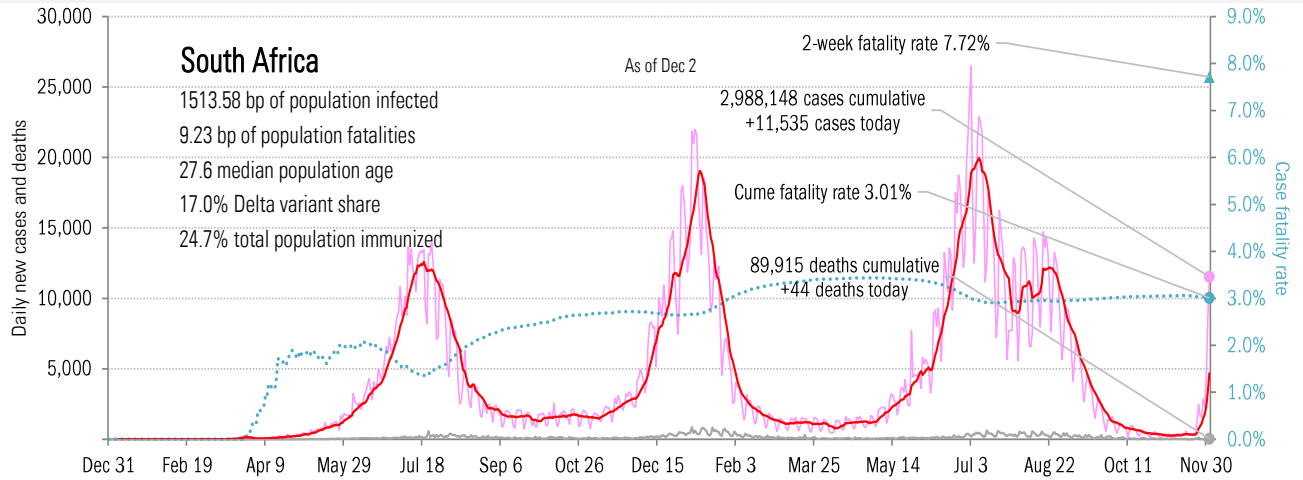
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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