

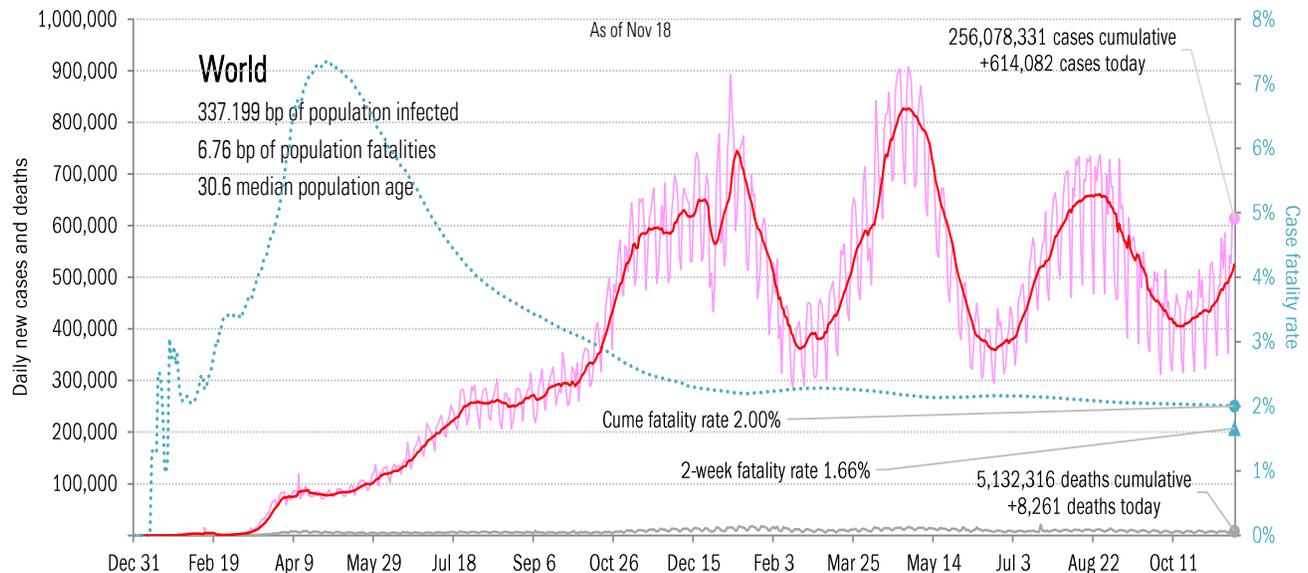
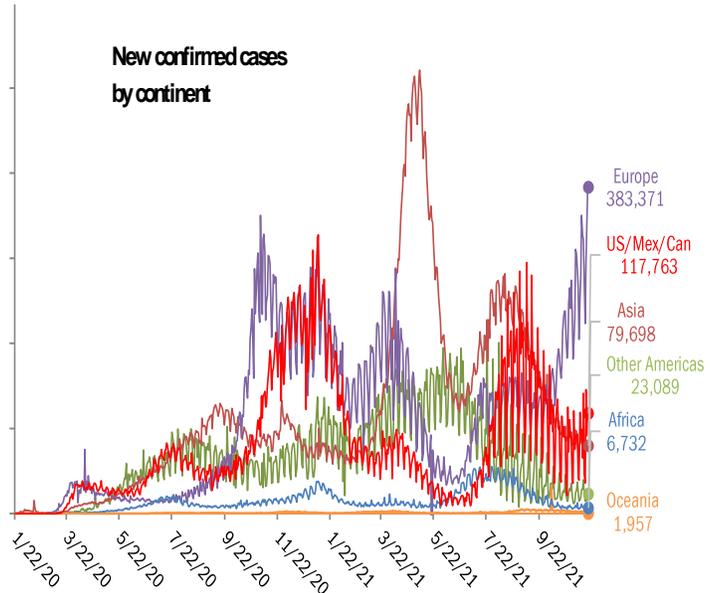
Data Insights: Covid-2019 Monitor

Friday, November 19, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+ 111,050	United States	+ 1,323
Germany	+ 58,768	Russia	+ 1,219
United Kingdom	+ 48,053	Ukraine	+ 784
Russia	+ 36,155	India	+ 459
Poland	+ 24,912	Poland	+ 370
Netherlands	+ 23,641	Mexico	+ 356
Turkey	+ 22,234	Romania	+ 332
Ukraine	+ 21,810	Philippines	+ 305
France	+ 20,396	Brazil	+ 293
Belgium	+ 16,699	Turkey	+ 226
+ 383,718		+ 5,667	
World	+ 614,082	World	+ 8,261
Top ten	62%	Top ten	69%



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

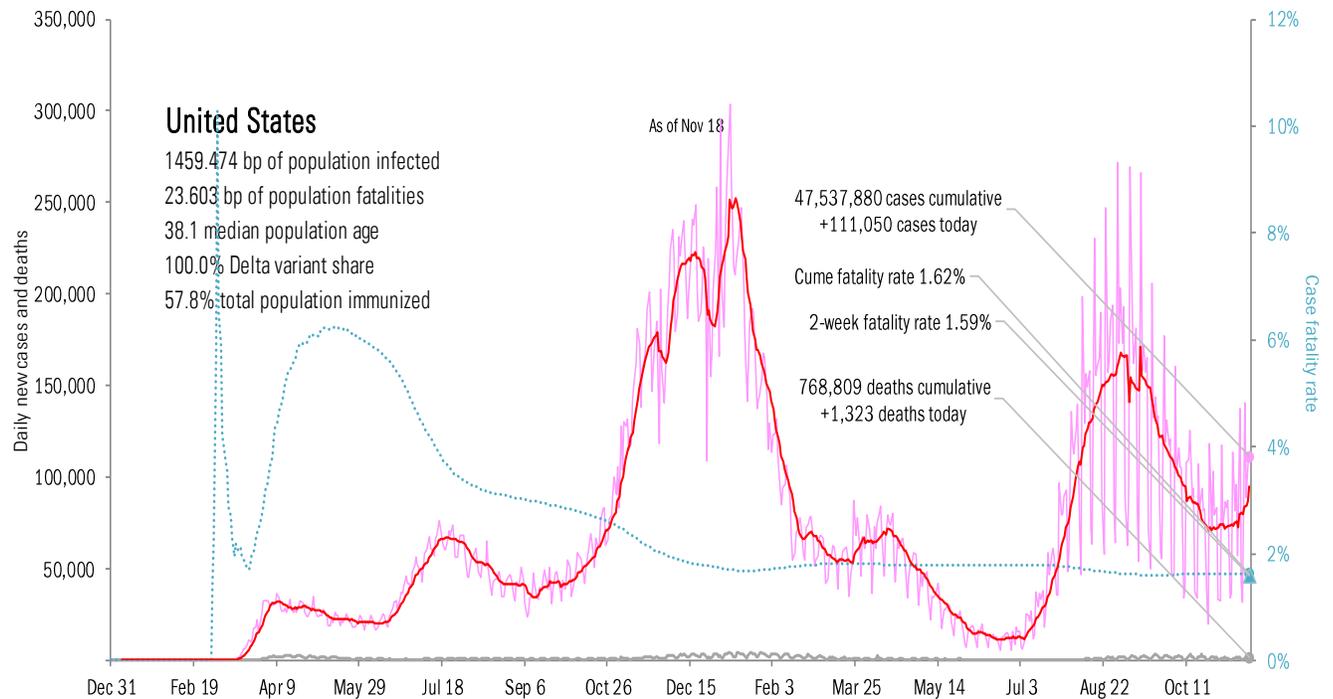
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
MO	+11,088		CA	+147		PA	+101		CA	5,028,939		CA	73,552		TX	380,206		MA	88%	GA	97%
NY	+8,103		TX	+138		MI	+100		TX	4,301,331		TX	73,176		FL	321,570		RI	87%	NM	93%
PA	+6,637		PA	+96		CH	+89		FL	3,718,173		FL	60,960		CA	316,727		PA	86%	NE	92%
CH	+6,615		MO	+76		GA	+76		NY	2,652,280		NY	57,097		NY	168,199		GA	86%	RI	91%
IL	+5,644		GA	+67		CO	+42		IL	1,758,146		PA	32,729		GA	161,818		MI	85%	VT	90%
CA	+5,026		FL	+61		TX	+39		PA	1,666,724		GA	30,094		CH	129,567		MD	83%	DE	88%
TX	+4,934		AZ	+56		NY	+38		GA	1,653,237		IL	28,623		PA	121,905		NY	83%	AL	88%
MN	+4,820		CO	+51		IA	+34		CH	1,627,051		NJ	28,230		KY	113,012		WA	83%	MN	87%
CO	+4,606		CK	+49		IL	+34		NC	1,512,478		CH	25,813		IL	107,733		MN	83%	KY	86%
WI	+4,338		NC	+48		KY	+30		MI	1,387,938		MI	24,684		MI	97,699		MO	82%	TX	85%
+61,811			+789			+583			25,306,297			434,958			1,918,436						
All states +111,050			+1,323			-585			All states 47,537,880			768,809			3,440,720			All states 70%		67%	
Top ten 56%			60%			100%			Top ten 53%			57%			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	-17,903	MI	-276	MN	-74	WV	+30 bp
FL	-3,618	IA	-102	NC	-73	AK	+10 bp
KS	-2,880	GA	-59	NJ	-33	AZ	+10 bp
IA	-727	PA	-54	CT	-31	CA	+10 bp
VA	-637	TN	-43	NV	-26	CO	+10 bp

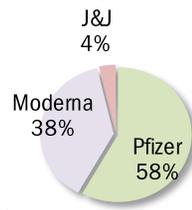


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	458,535,663	+1.501 million	US	57.8%	68.0%
Boosters	33,022,382	+1.026 million	UK	67.6%	74.3%
	One dose	% Pop	Immune	% pop	New immune today
Total population	234,345,334	70%	200,763,610	60%	+0.105 million
Age 12 to 17	14,493,150	61%	12,163,527	51%	+0.010 million
Age 18 to 64	160,414,453	79%	138,826,699	68%	+0.090 million
Age 65 and over	56,344,241	100%	48,833,993	89%	+0.004 million

France	68.9%	76.4%
Spain	80.2%	81.7%
Germany	67.2%	69.7%
Italy	72.8%	77.8%
Australia	70.6%	76.5%
Israel	62.0%	67.4%
Canada	75.6%	79.1%
Japan	76.2%	78.9%
Africa	6.8%	10.1%
India	27.9%	54.6%
Brazil	60.0%	75.9%
China	74.4%	82.1%



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

Every American >18 immunized in **273 days** by Aug 18, 2022
 72.7% of population >18 immunized
 16.9% previously tested positive
89.6% vs 60% adult herd immunity

Global data differs due to sources, timing

AK
61.6%
53.8%

WI
64.6%
59.1%

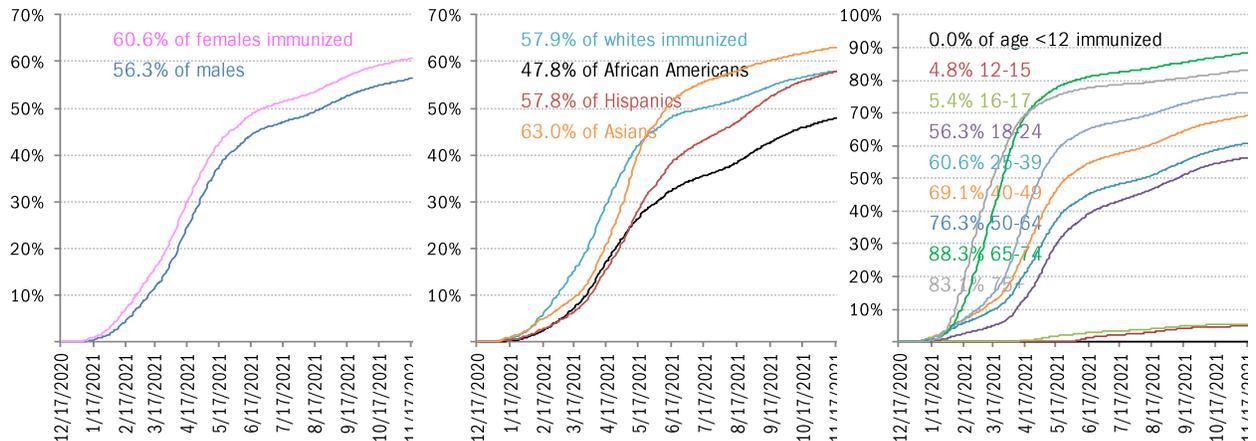
As of Nov 18

ME
79.9%
71.7%

WA 71.5% 64.5%	ID 50.1% 44.8%	MT 58.7% 51.5%	ND 56.9% 48.3%	MN 67.5% 62.0%	IL 66.4% 60.8%	MI 60.0% 54.2%	NY 76.5% 67.8%	VT 82.8% 72.2%	NH 83.0% 63.8%	
OR 70.2% 63.6%	NV 65.3% 54.0%	WY 52.7% 45.1%	SD 64.8% 53.9%	IA 61.6% 56.3%	IN 54.9% 50.3%	OH 57.3% 52.6%	PA 83.0% 61.9%	NJ 77.6% 67.3%	MA 83.6% 70.6%	
CA 77.2% 62.5%	UT 62.9% 55.0%	CO 70.0% 62.6%	NE 63.0% 57.0%	MO 58.6% 50.5%	KY 59.2% 51.6%	WV 53.7% 41.5%	VA 73.8% 64.2%	MD 74.2% 66.9%	CT 82.1% 71.5%	RI 81.3% 71.9%
	AZ 63.0% 54.1%	NM 74.8% 63.0%	KS 64.8% 54.1%	AR 59.4% 48.8%	TN 56.0% 49.1%	NC 68.1% 53.7%	SC 59.3% 50.9%	DC 78.6% 63.7%	DE 71.2% 60.9%	
			OK 61.5% 51.0%	LA 54.8% 48.4%	MS 53.2% 46.6%	AL 55.7% 45.6%	GA 58.2% 49.1%	FL 70.8% 60.7%	PR 84.1% 74.3%	
			TX 62.5% 54.2%							

HI
80.9%
60.5%

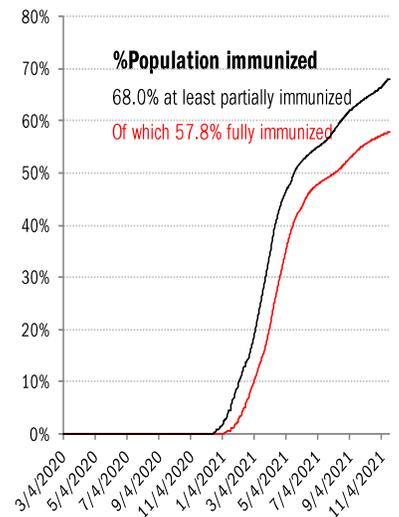
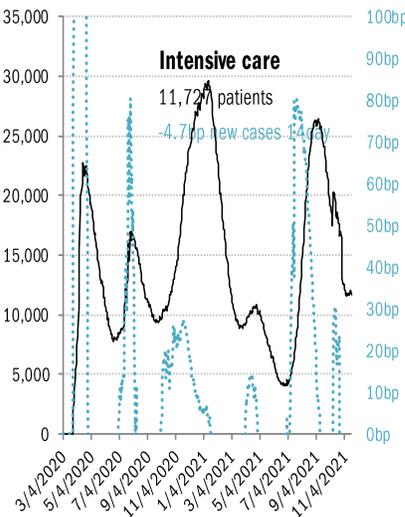
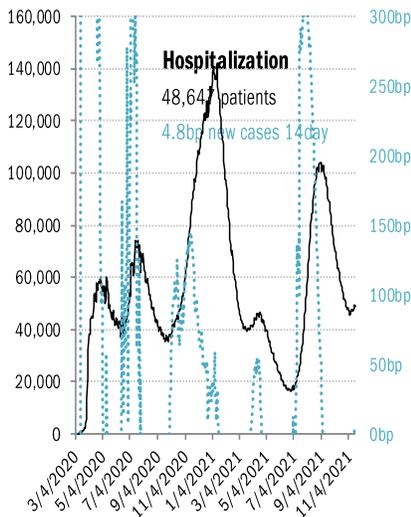
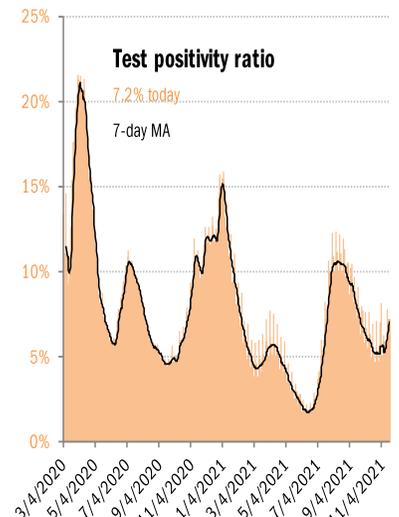
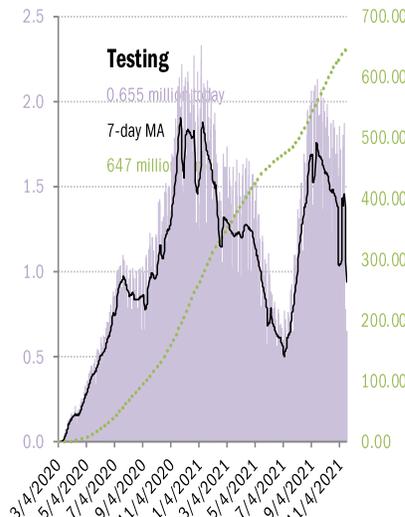
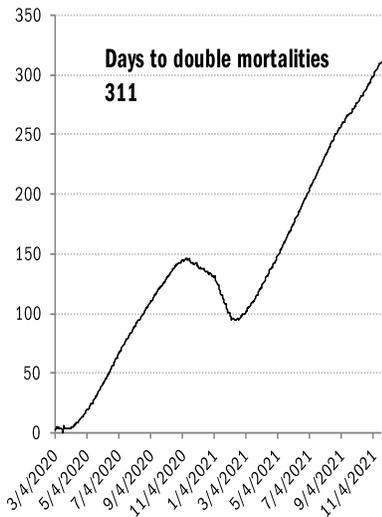
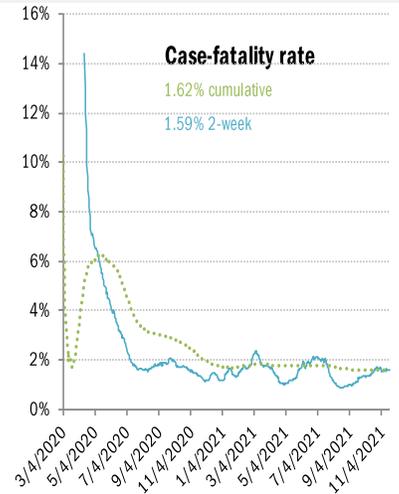
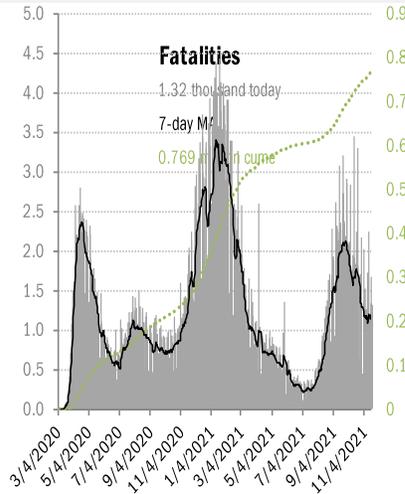
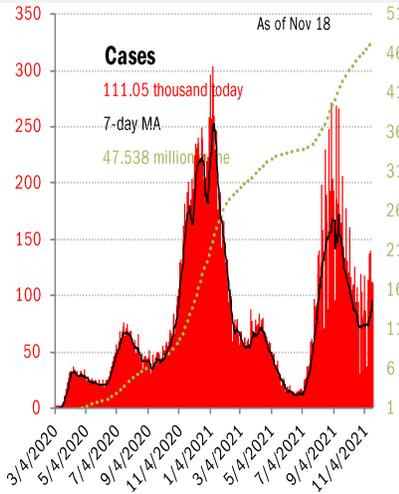
The demographics of US vaccination



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

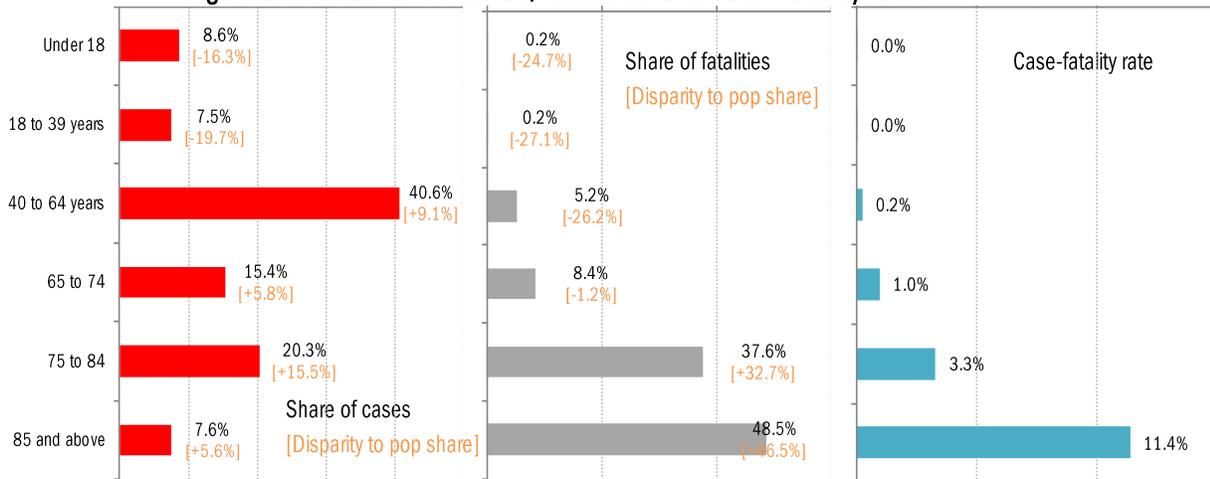
US deep-dive

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

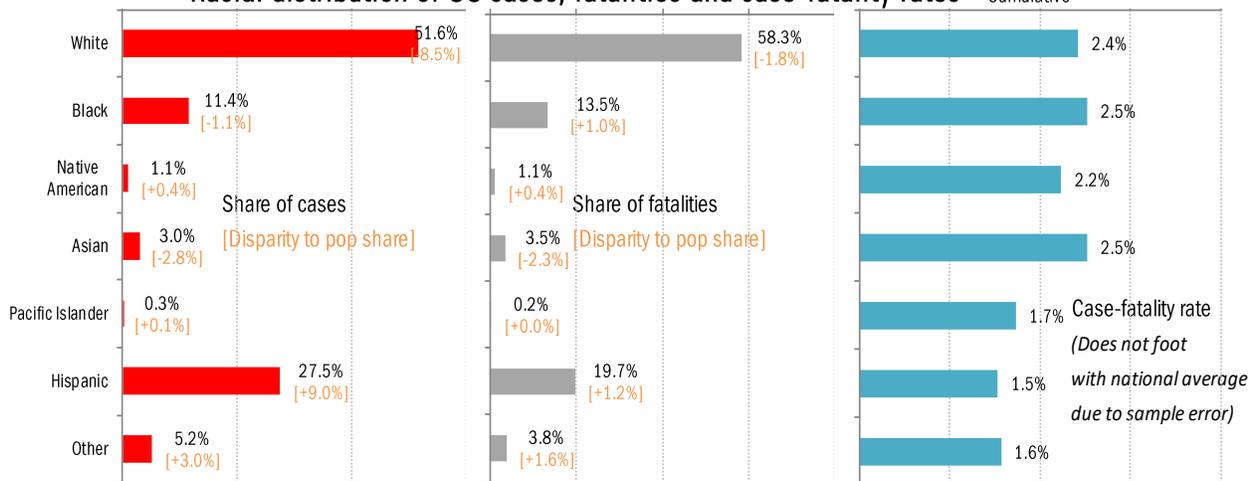


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

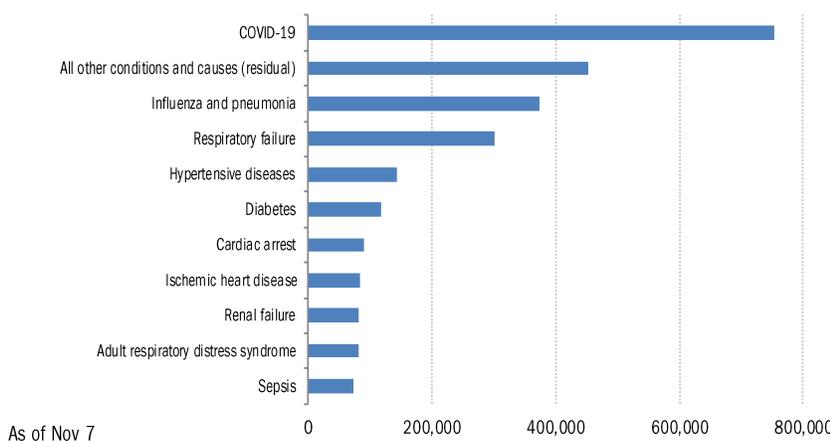


Racial distribution of US cases, fatalities and case-fatality rates



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

[Dissecting the early COVID-19 cases in Wuhan](#)

Michael Worobey
Science
November 18, 2021

[First Known Covid Case Was Vendor at Wuhan Market, Scientist Says](#)

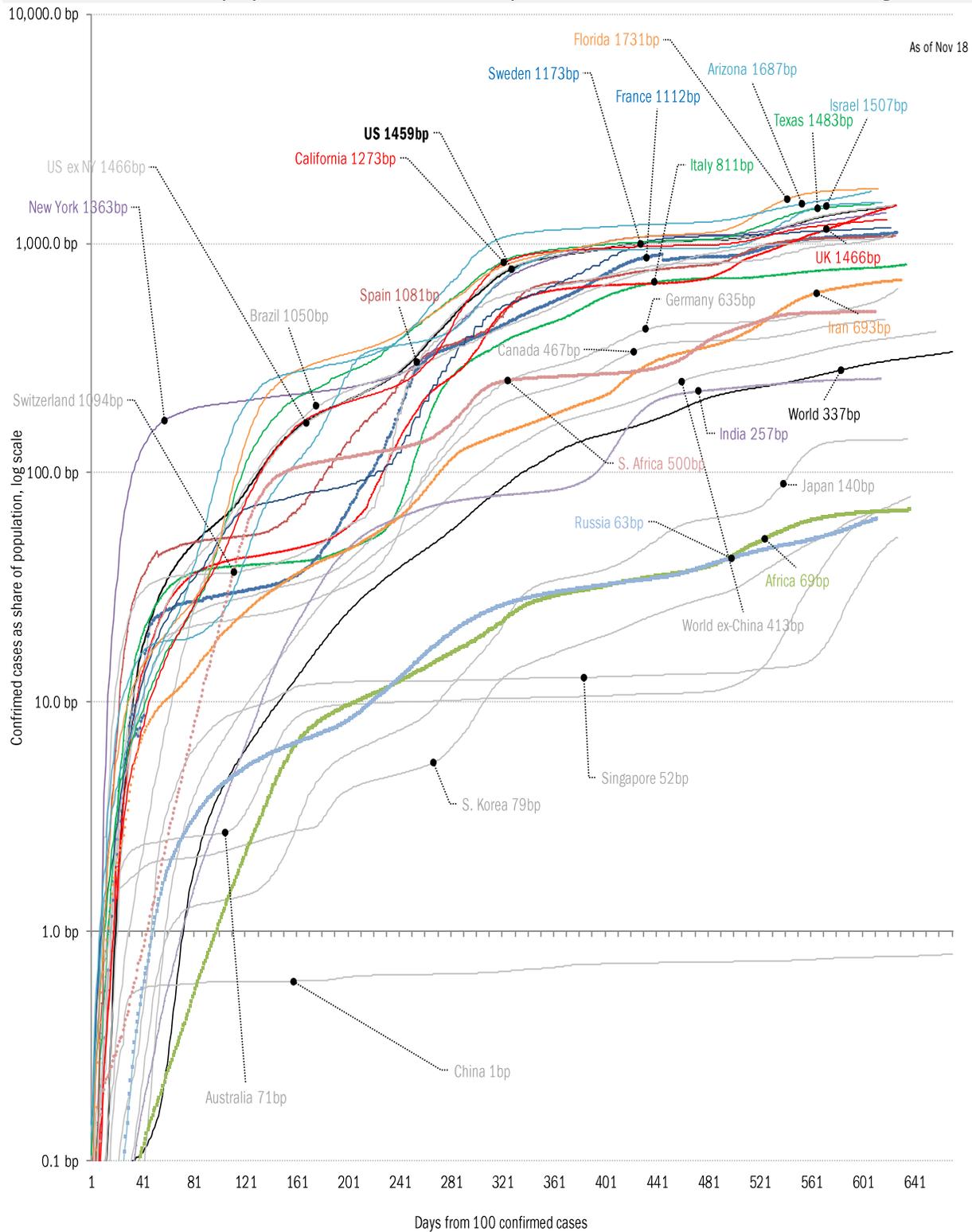
Carl Zimmer, Benjamin Mueller and Chris Buckley
New York Times
November 18, 2021

Meme of the day



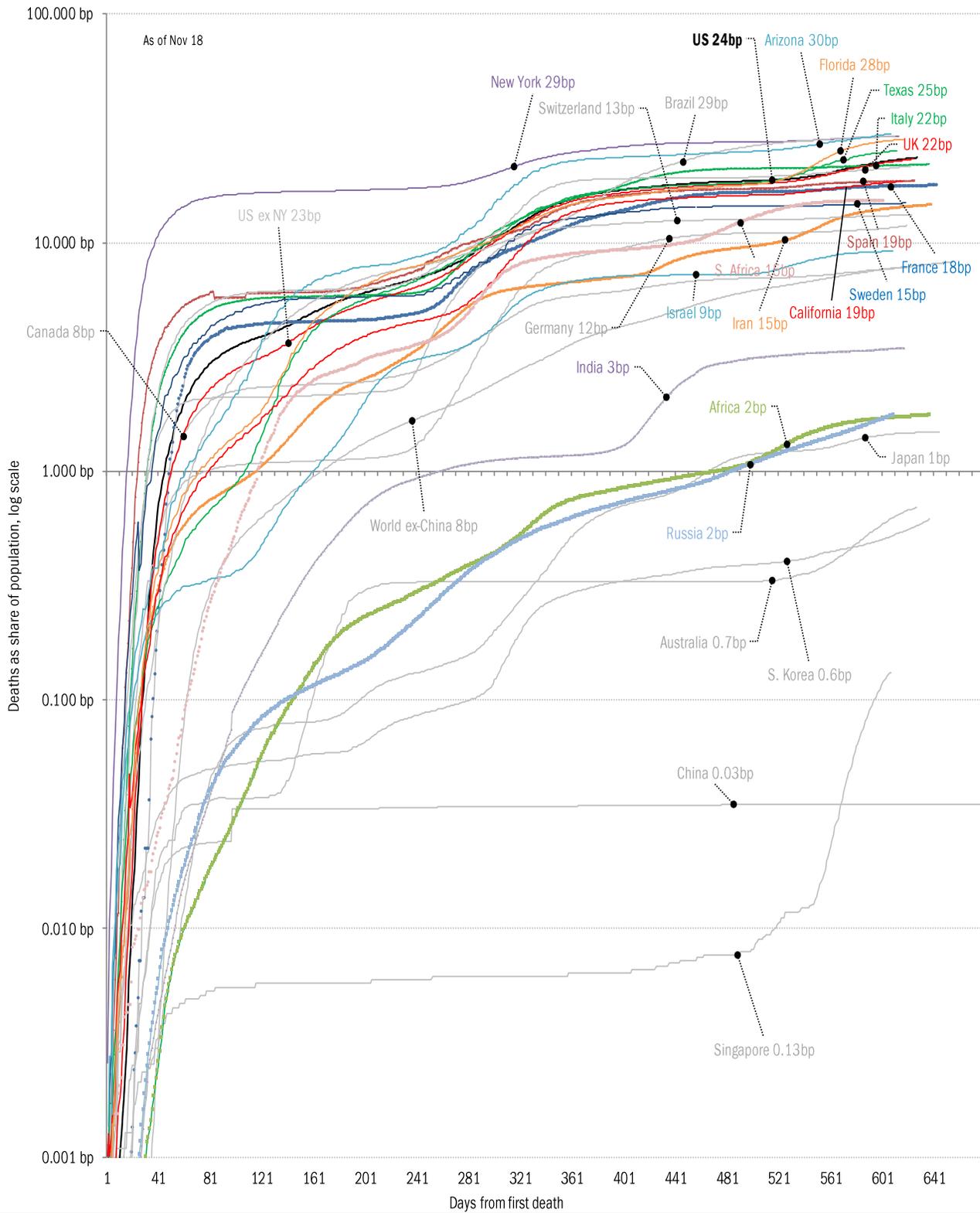
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

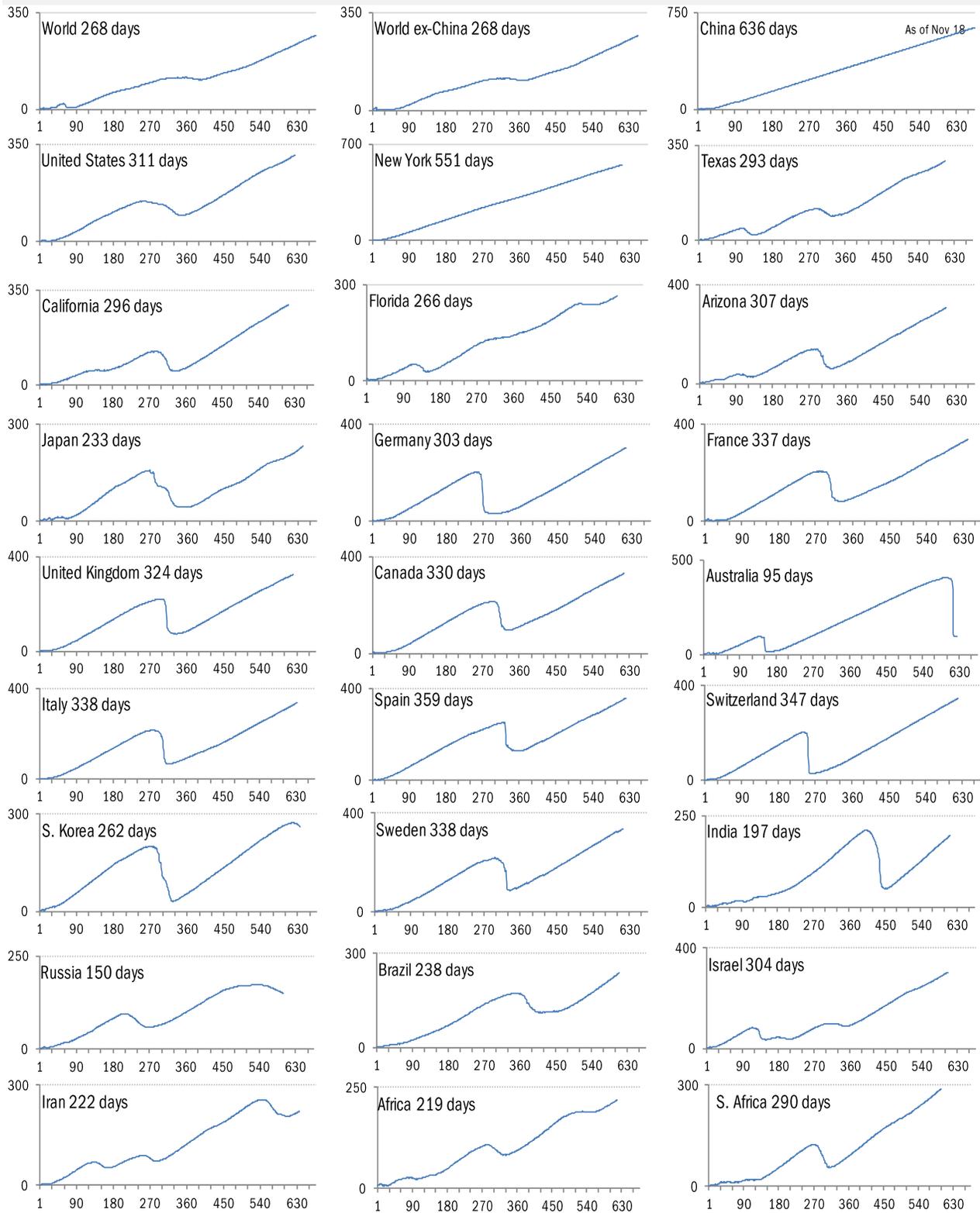


Source: [Johns Hopkins](#), TrendMacro calculations

"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

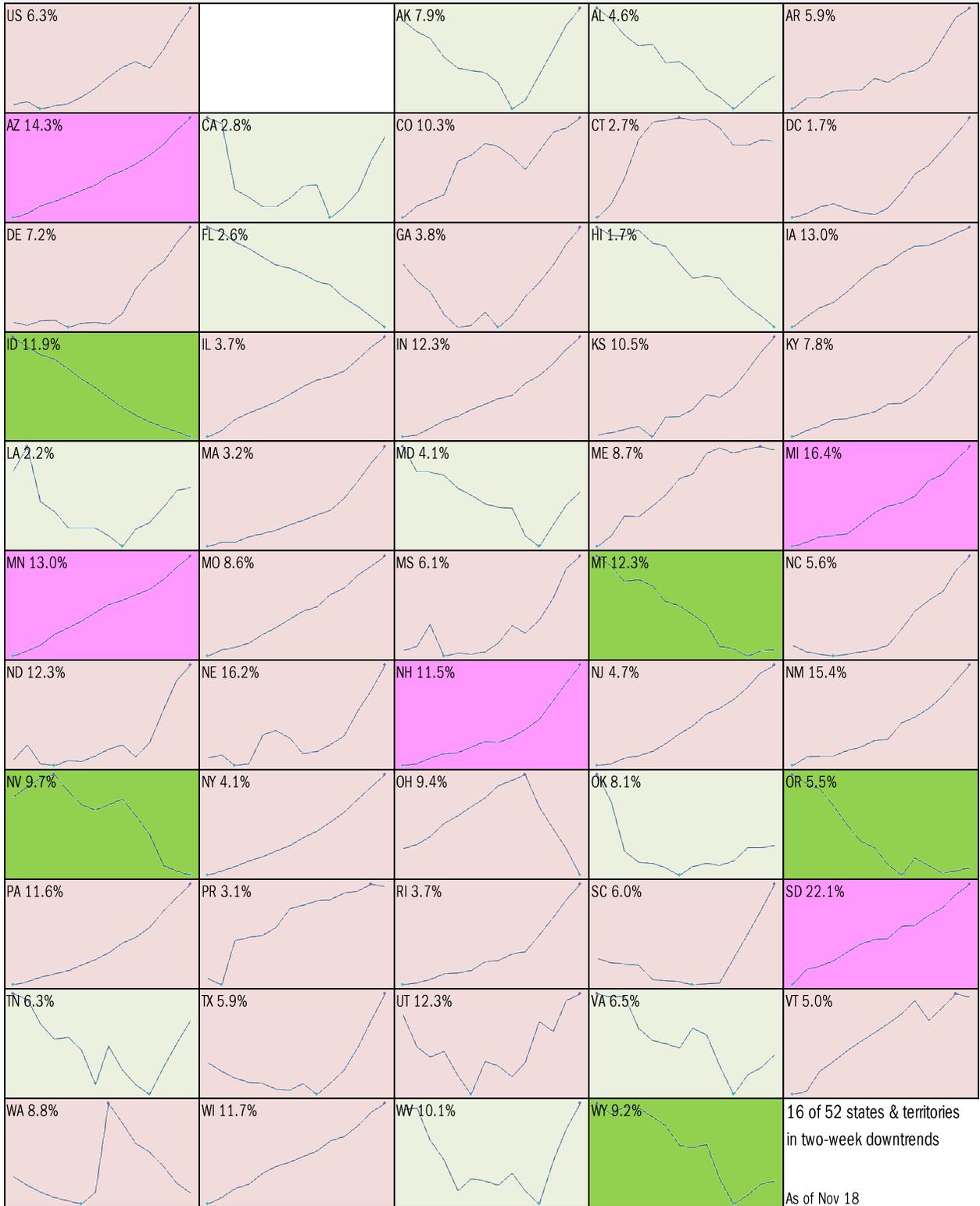


Source: [Johns Hopkins](#), TrendMacro calculations

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

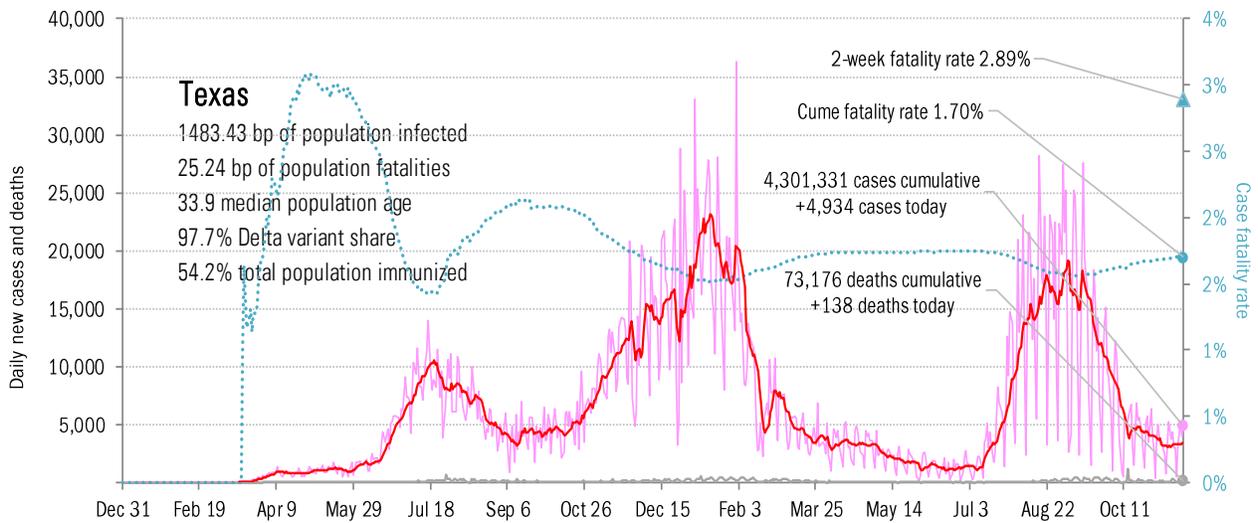
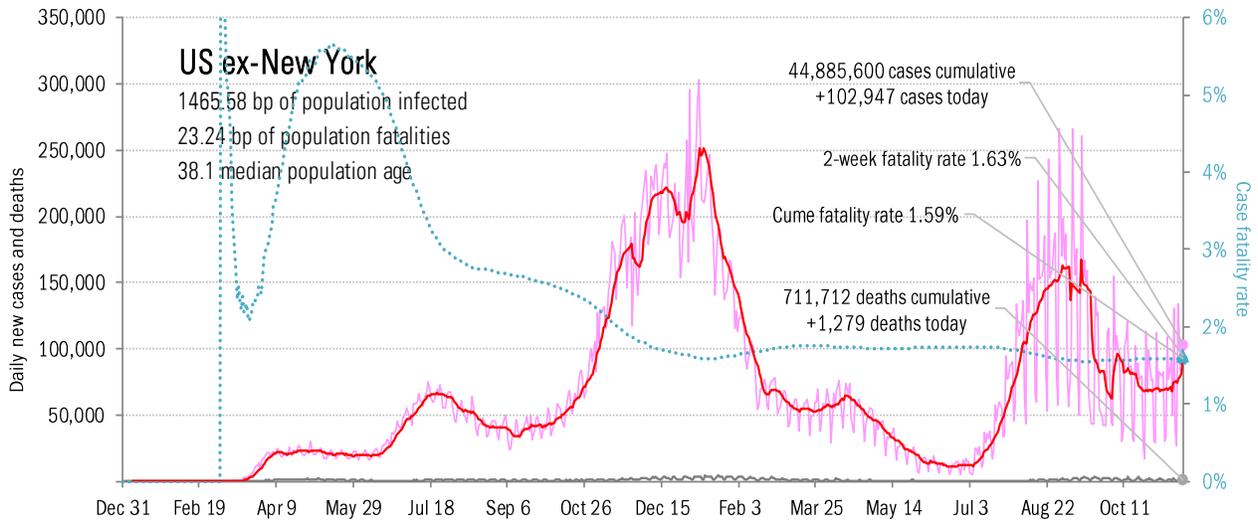
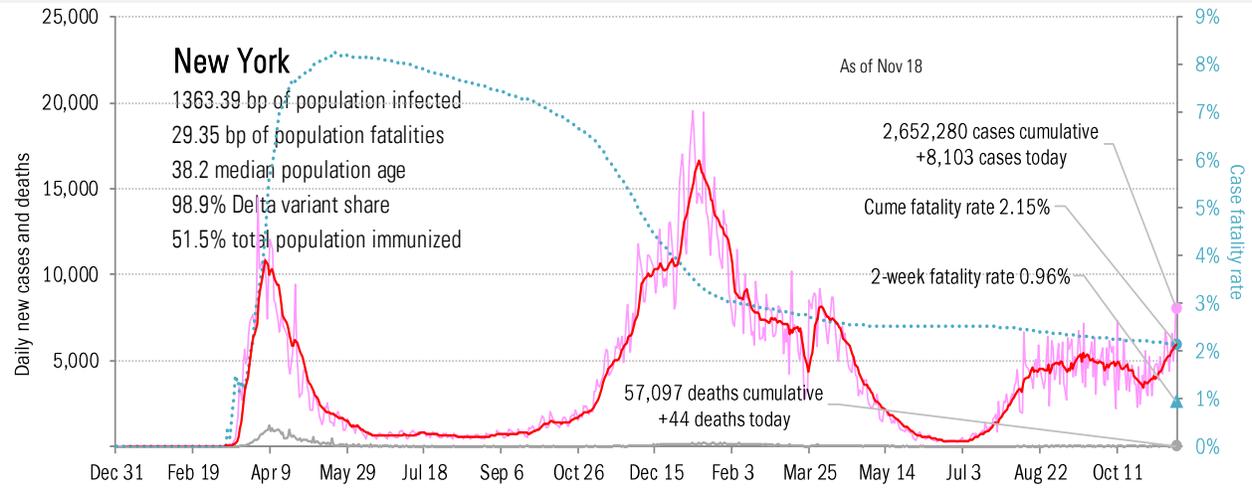


As of Nov 18

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

From Ground Zero to the Rio Grande

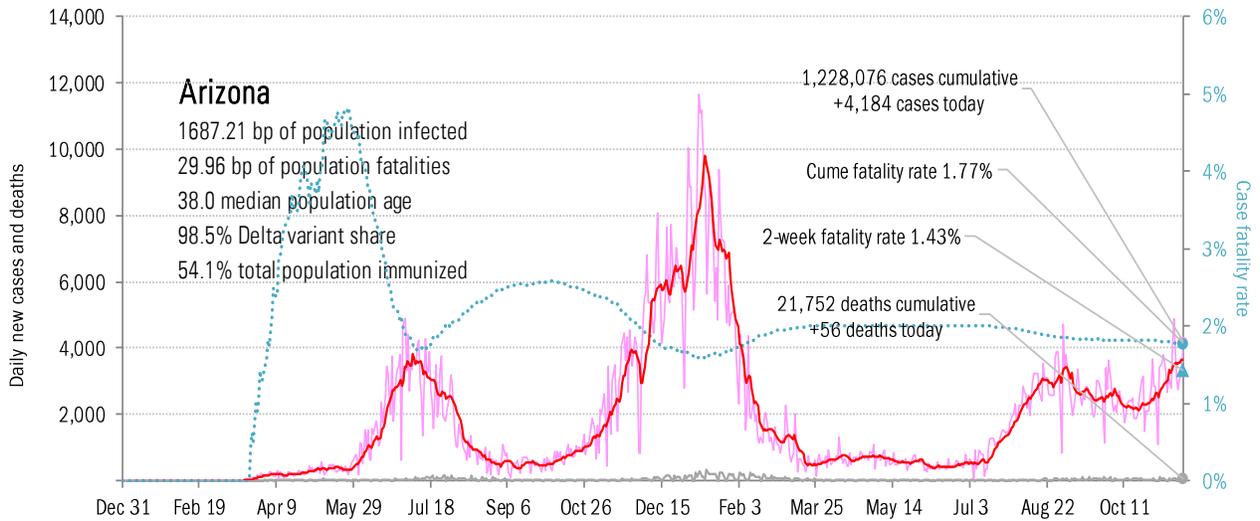
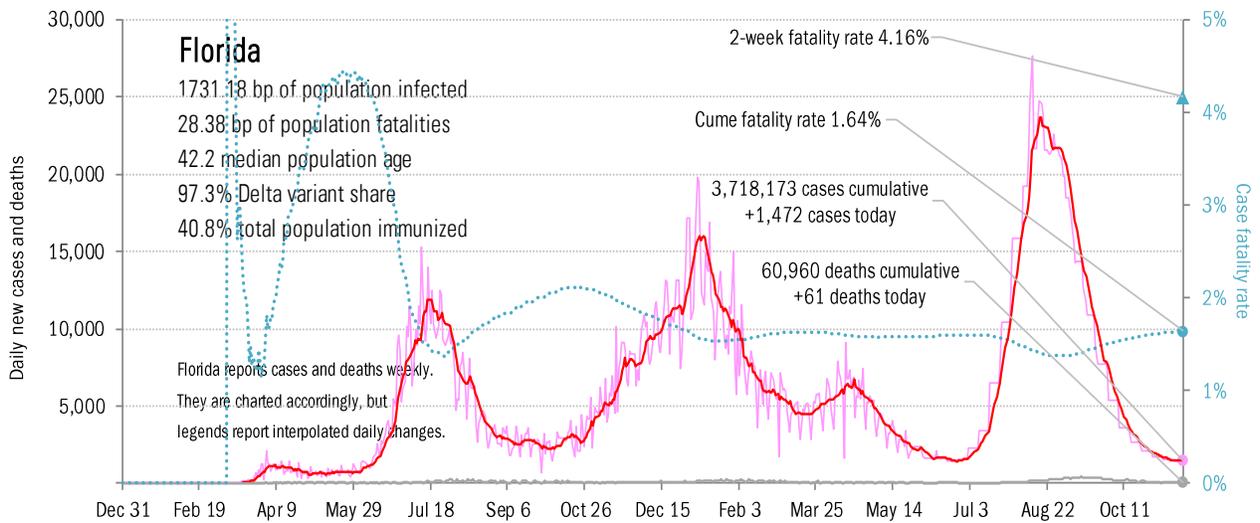
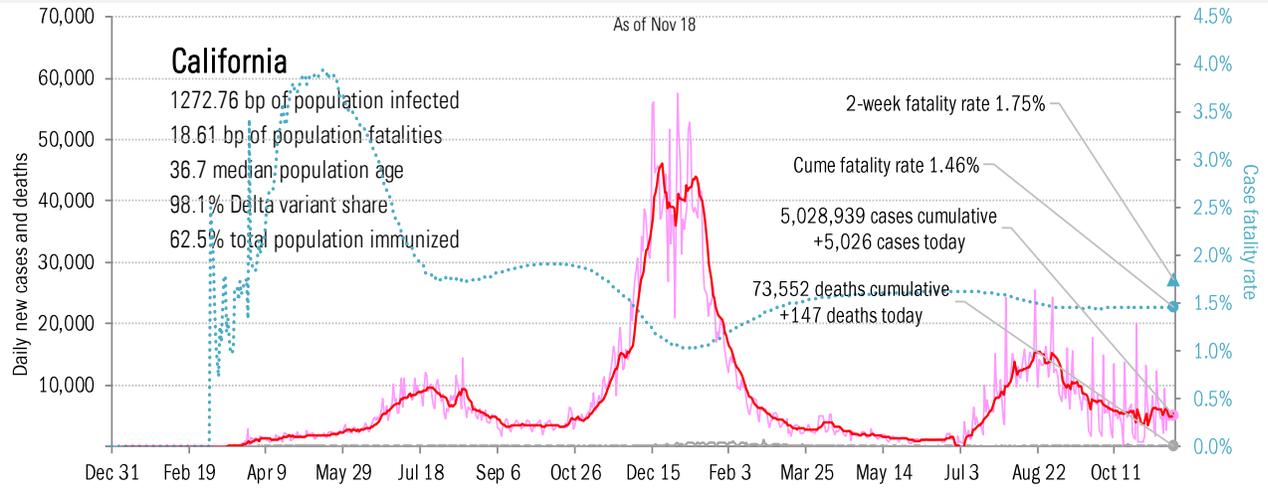
Cases: 7-day average and daily Deaths: Daily



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

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

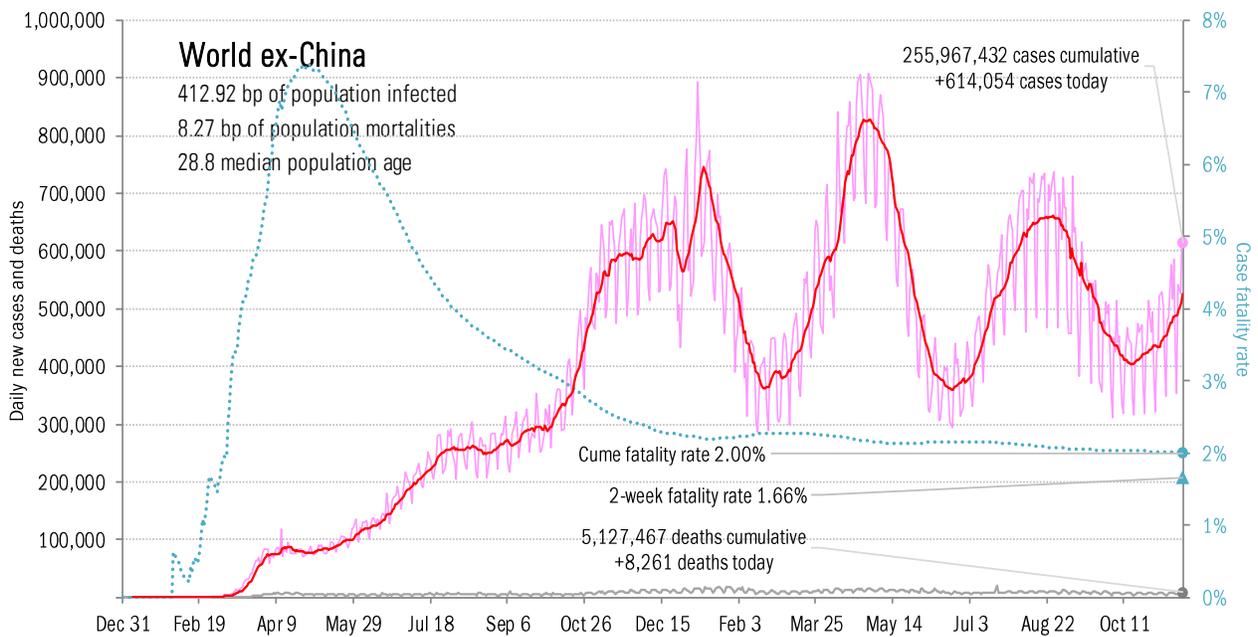
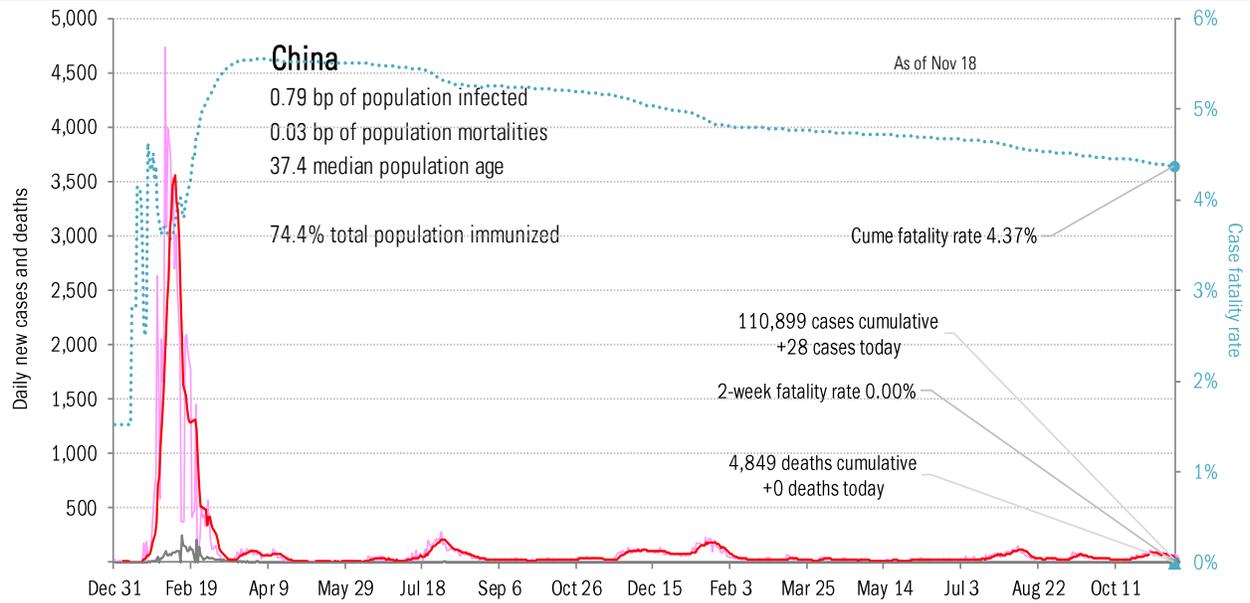
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

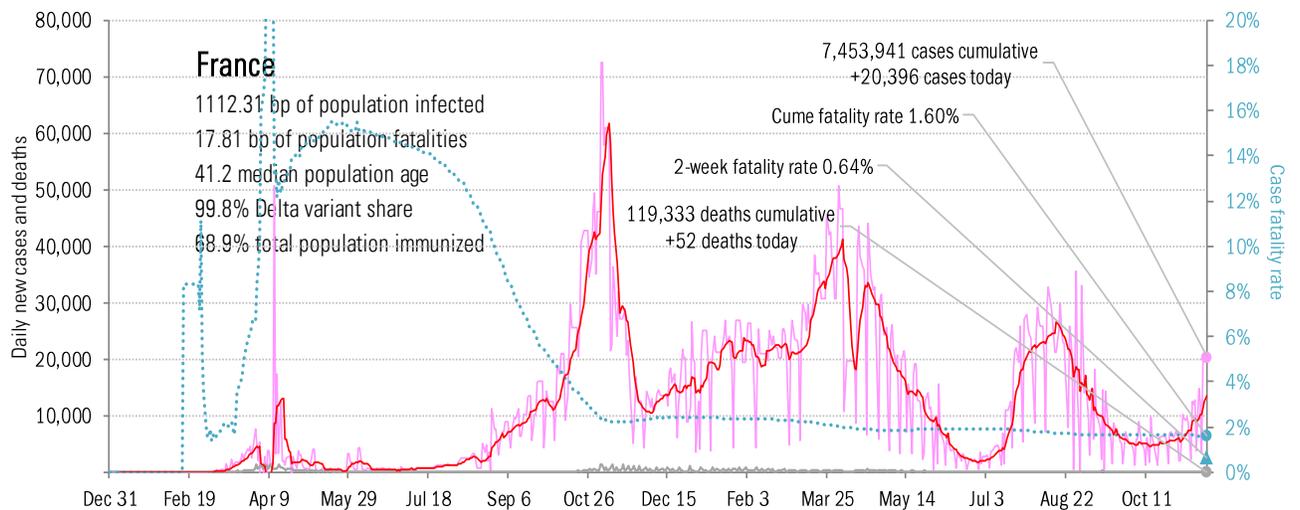
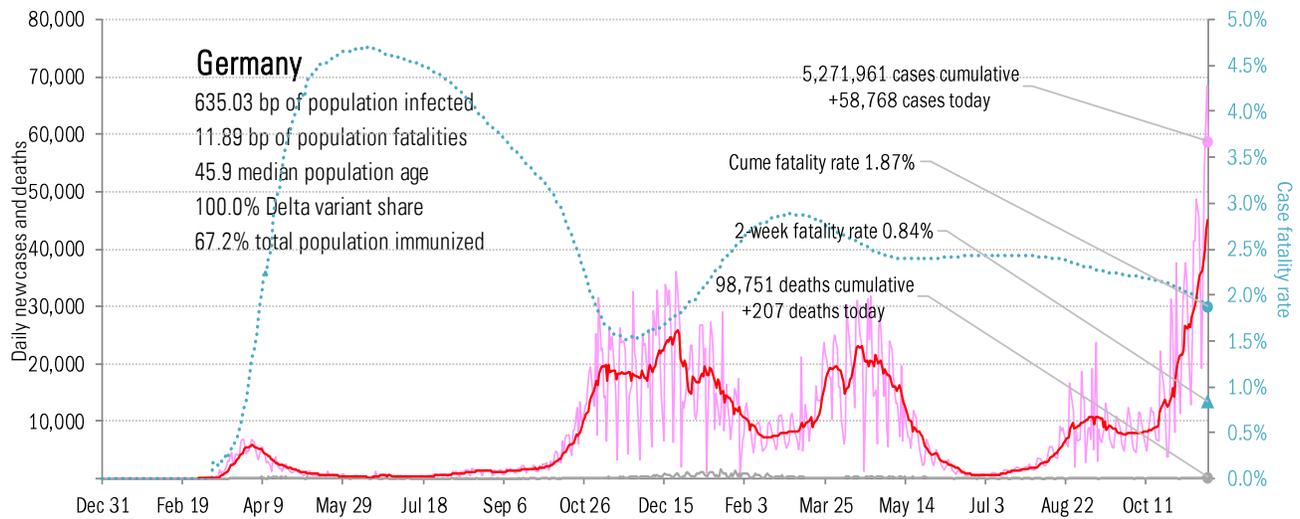
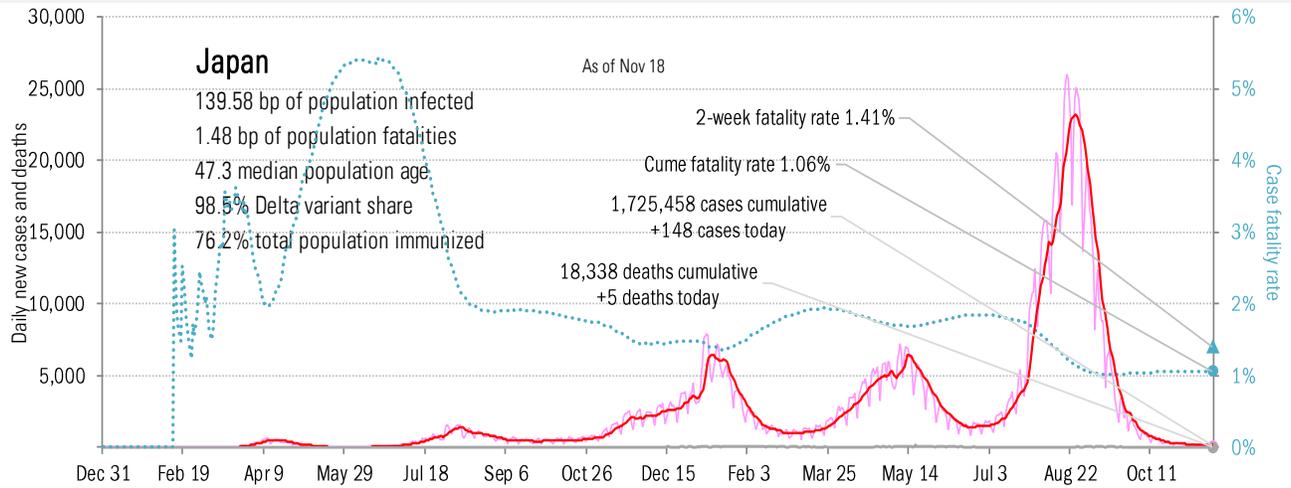
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

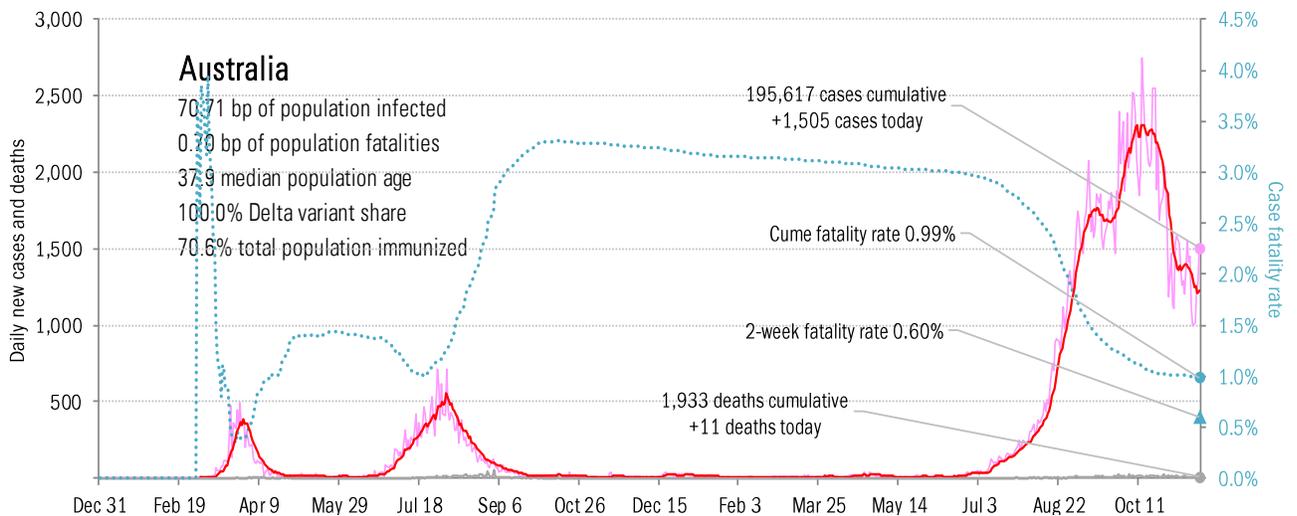
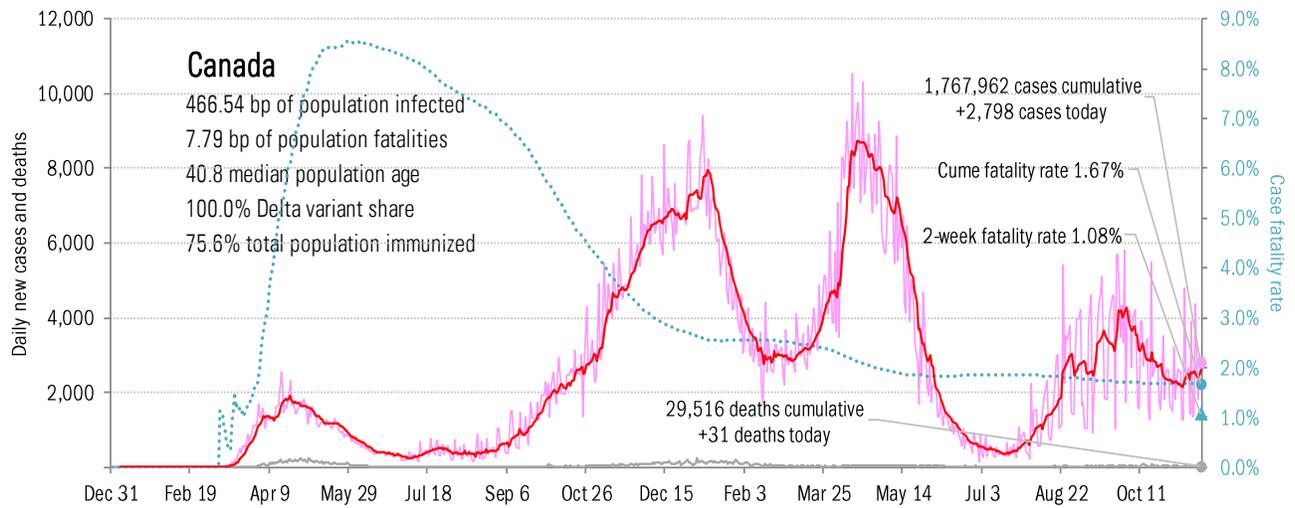
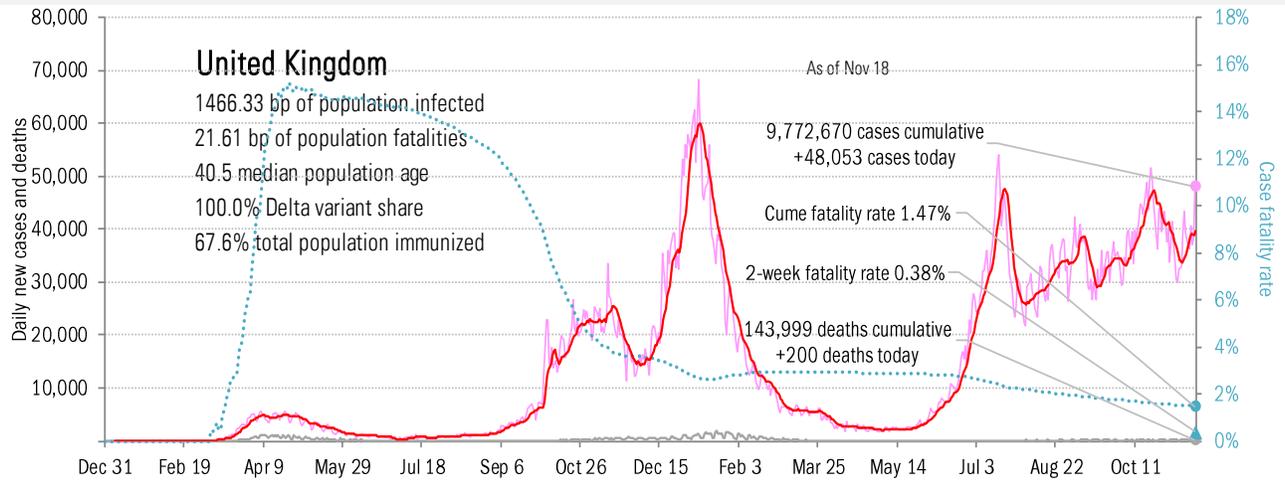
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

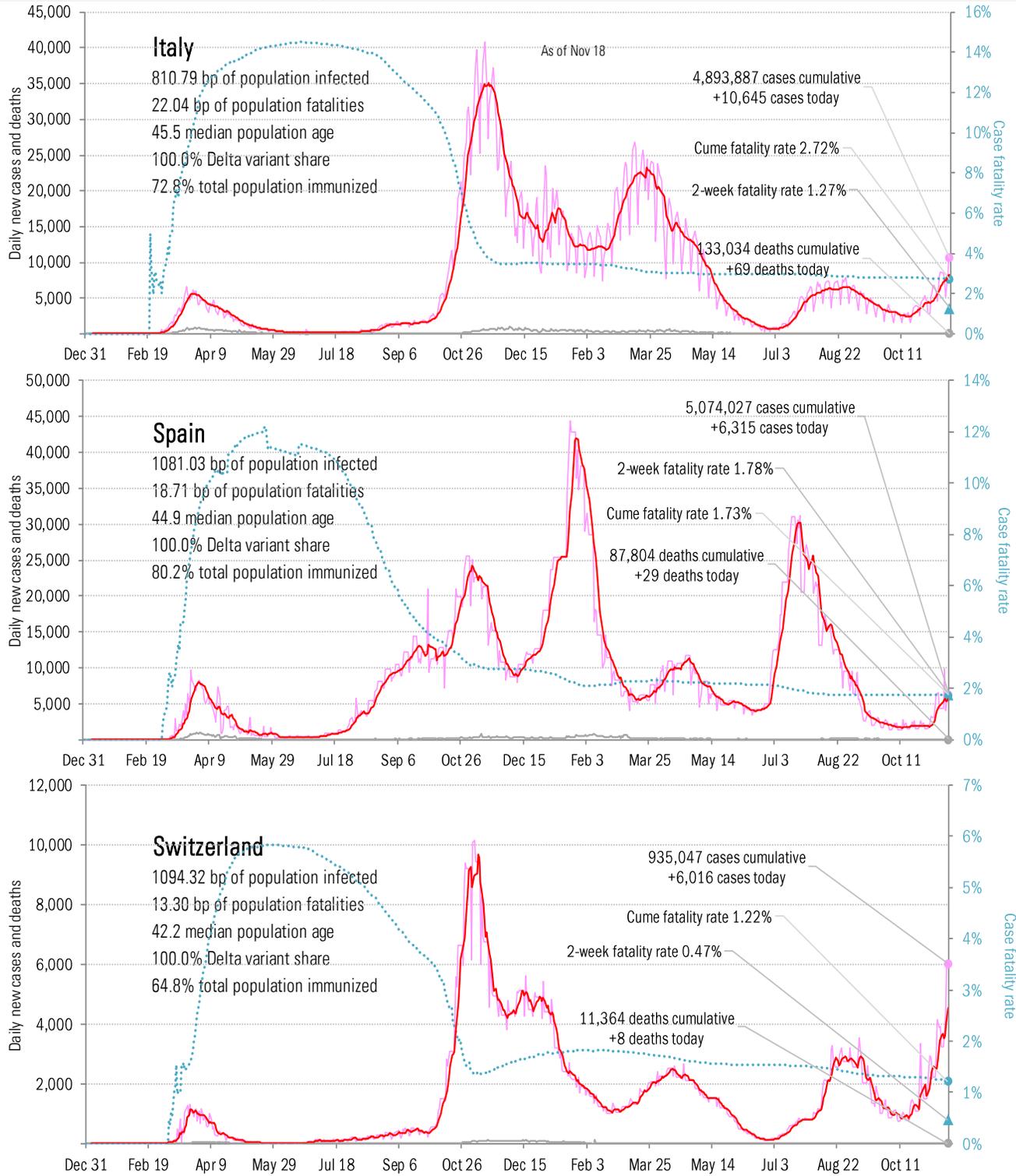
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

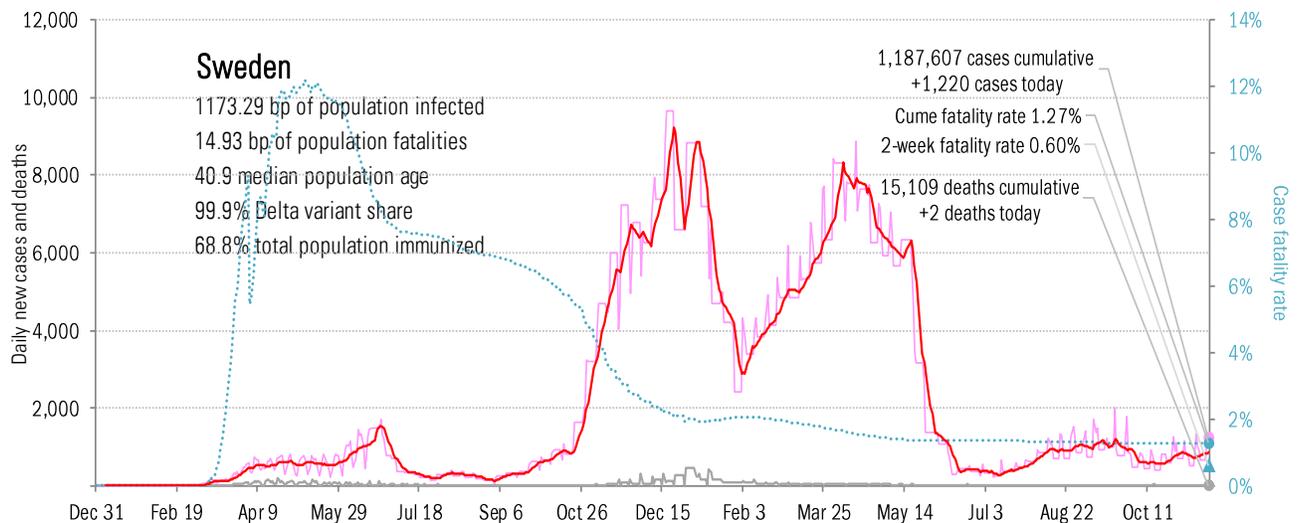
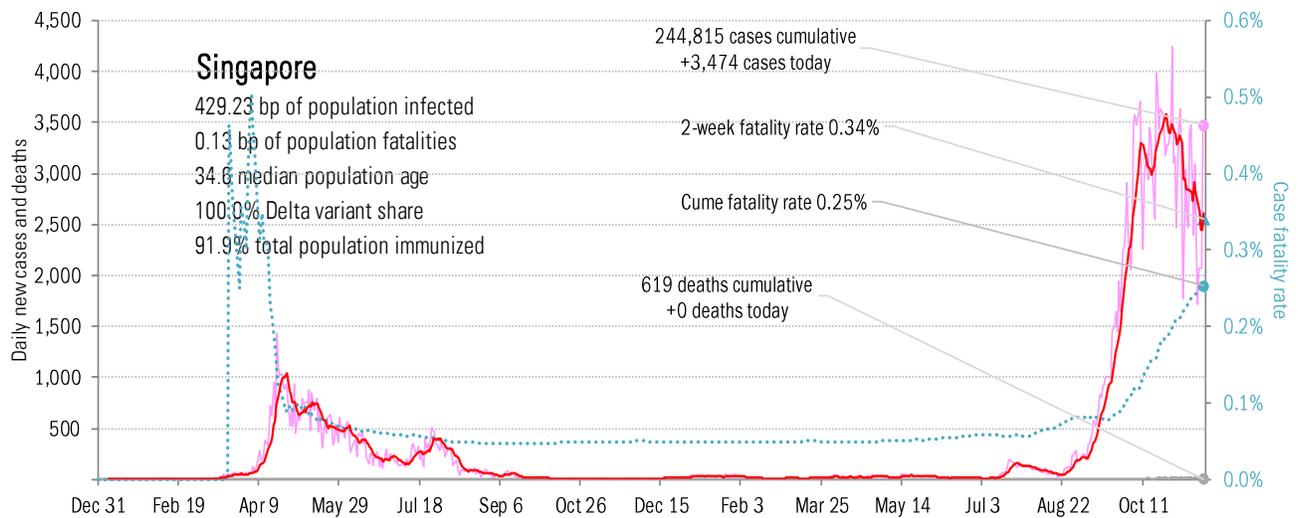
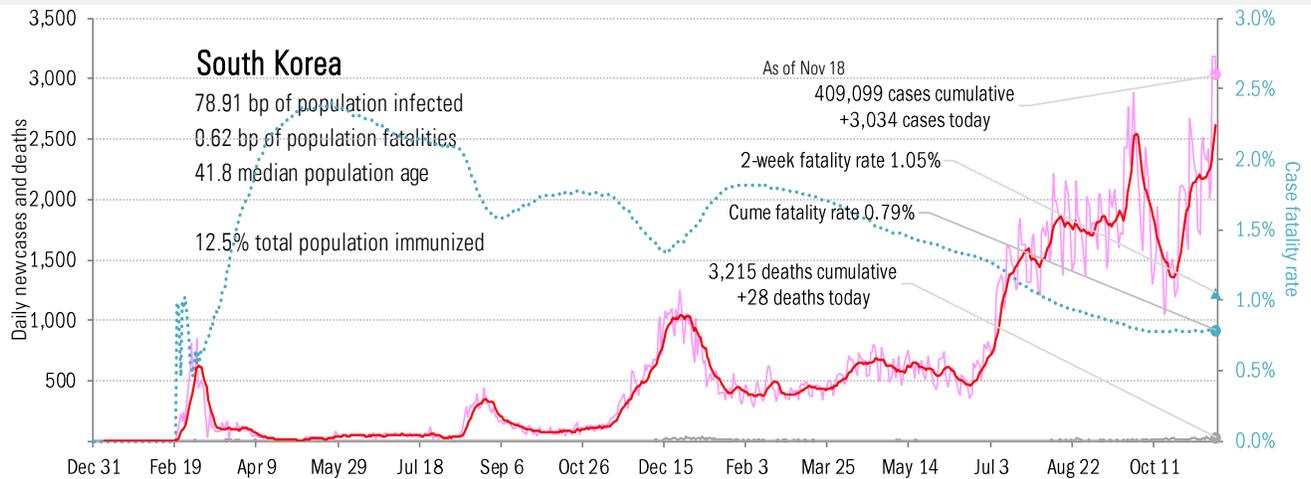
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

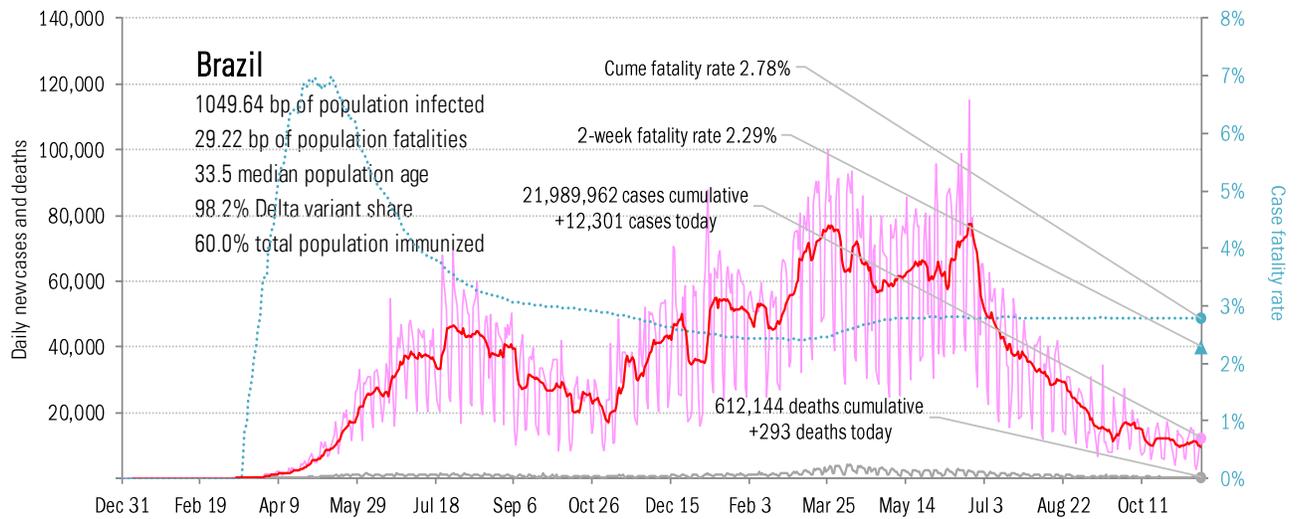
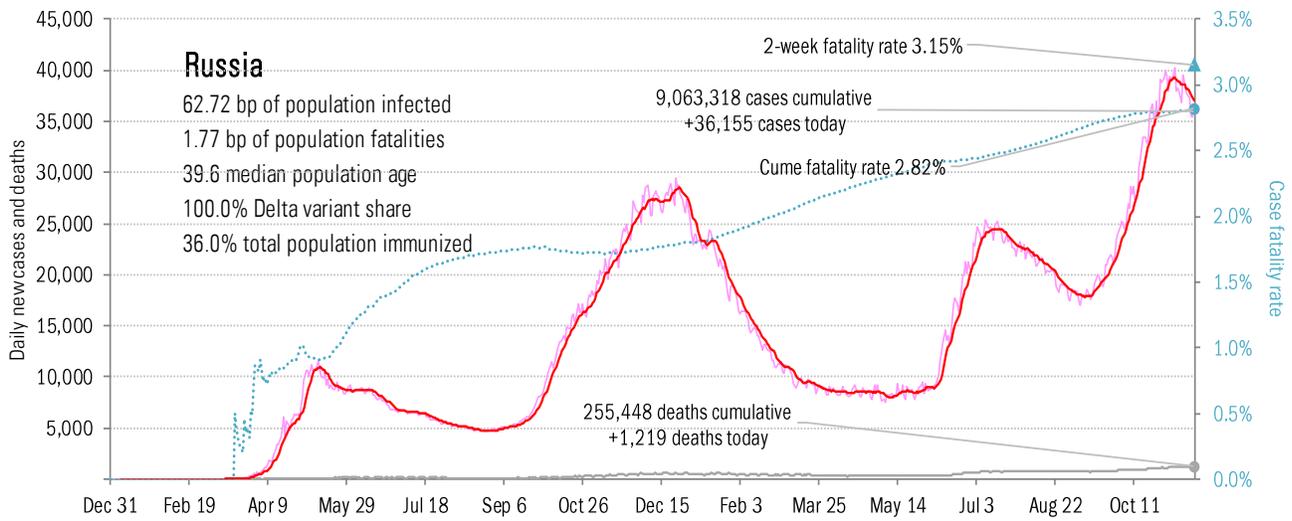
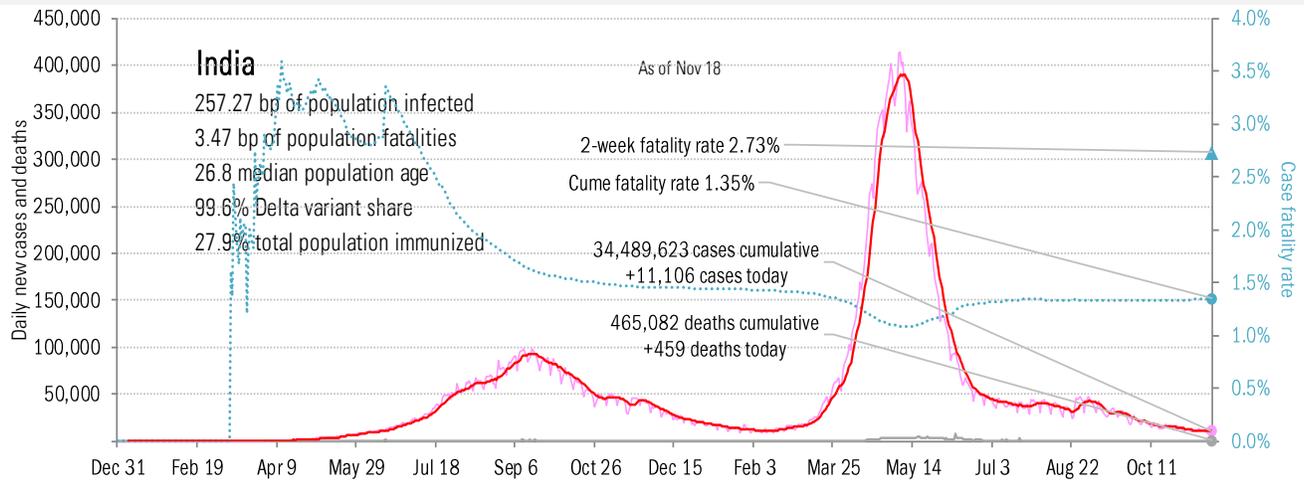
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

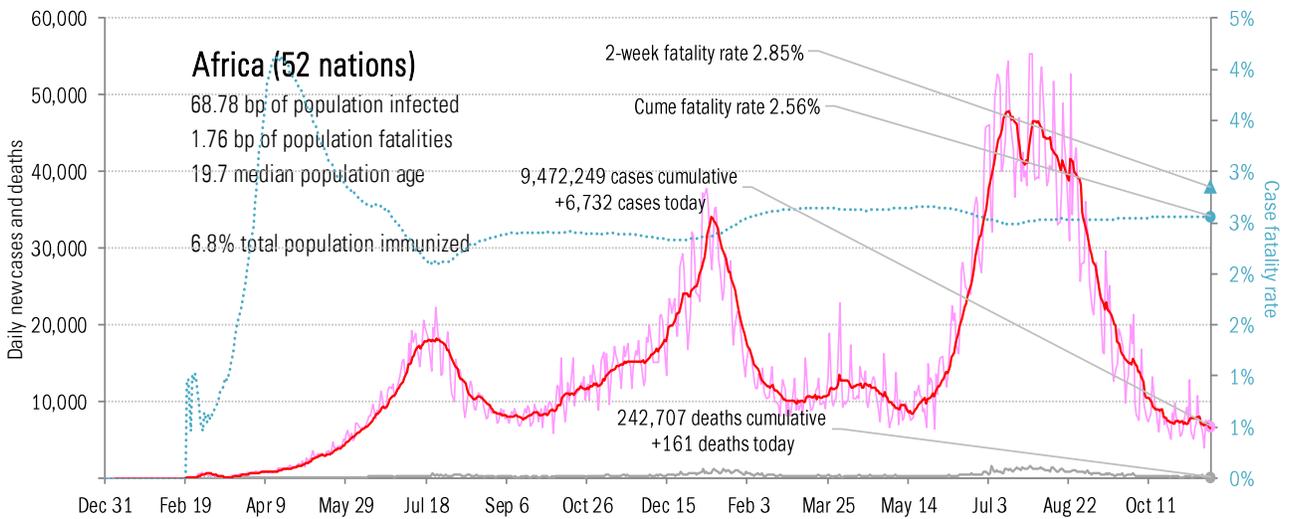
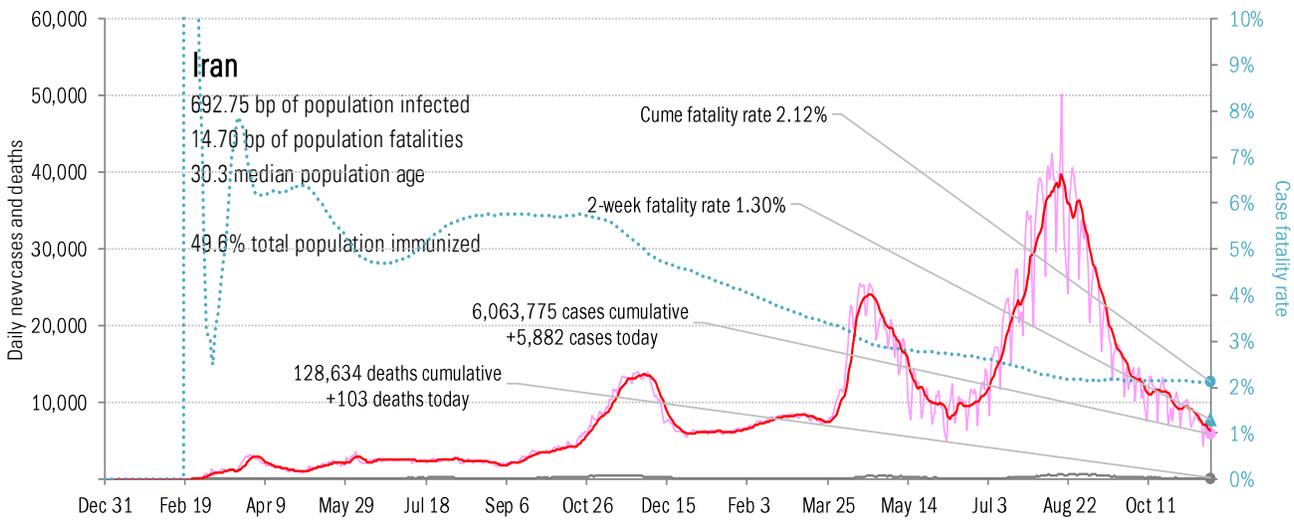
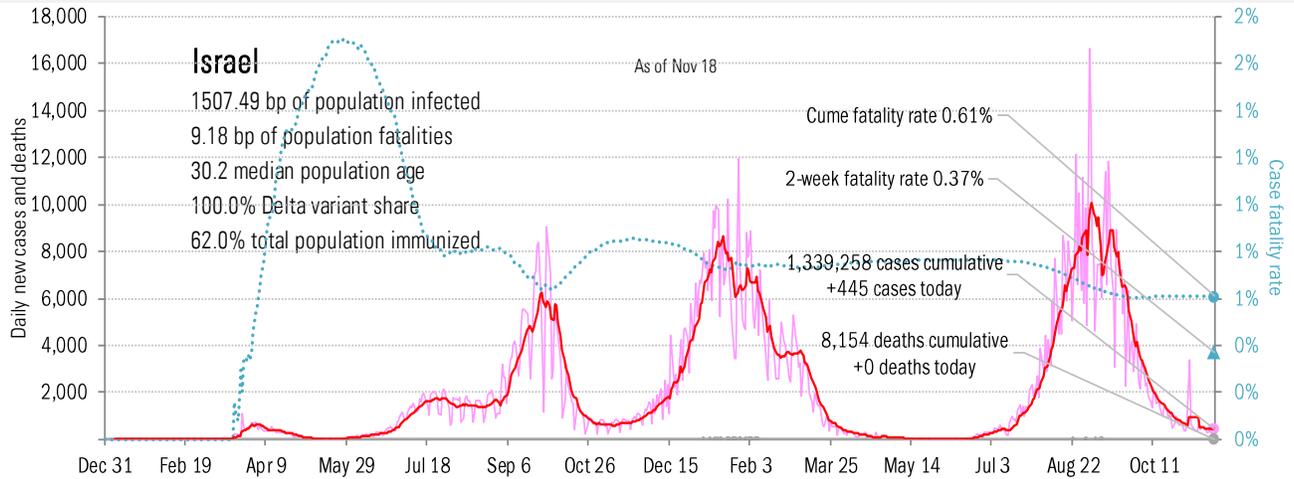
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

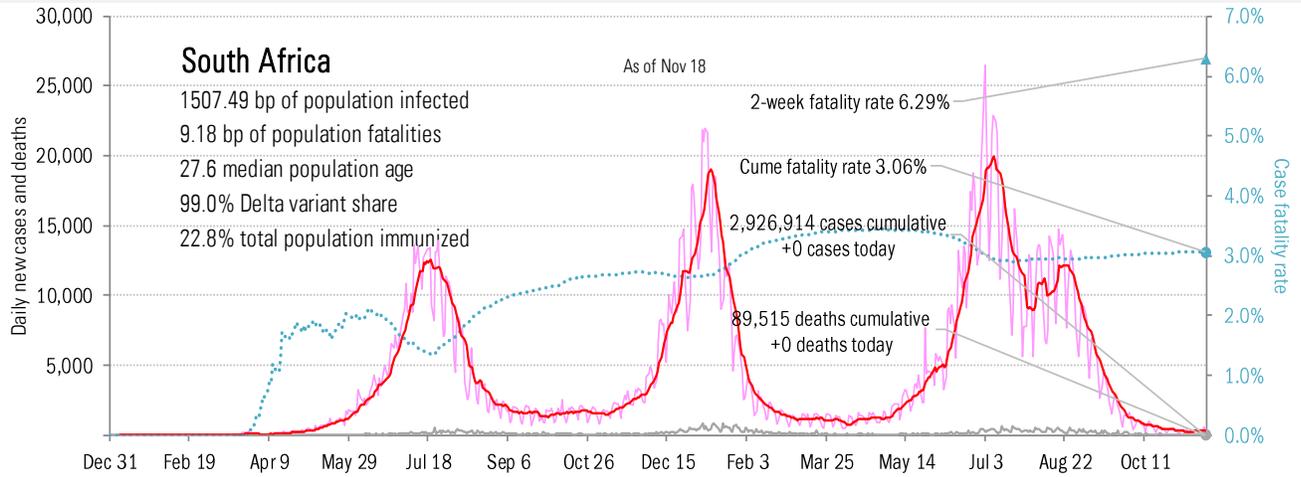
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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