

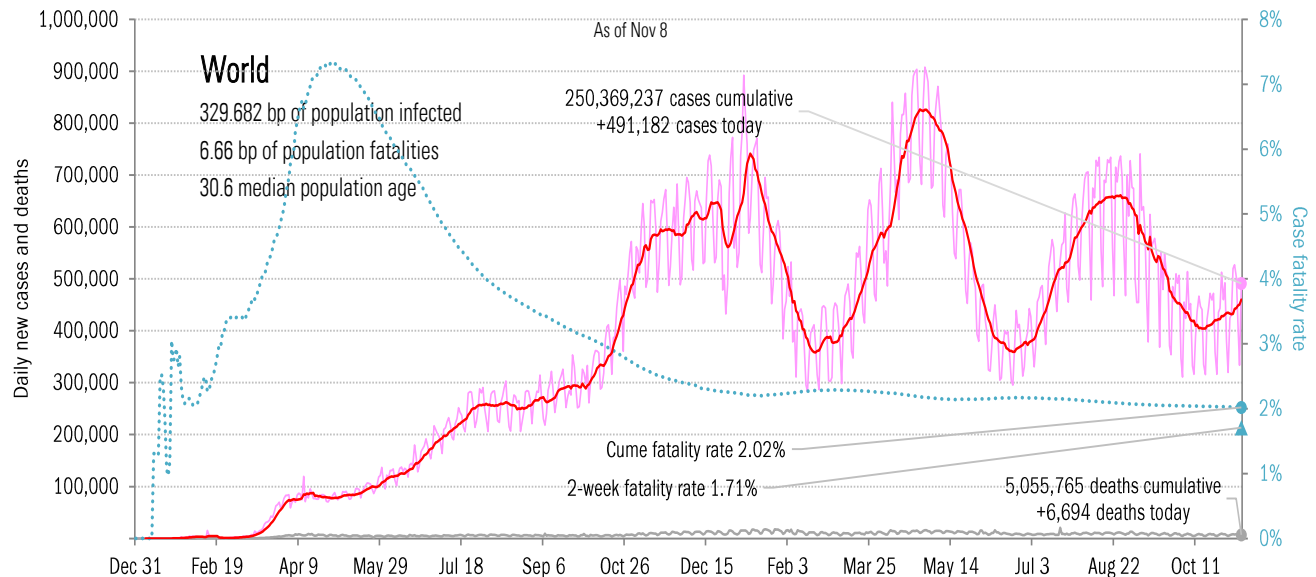
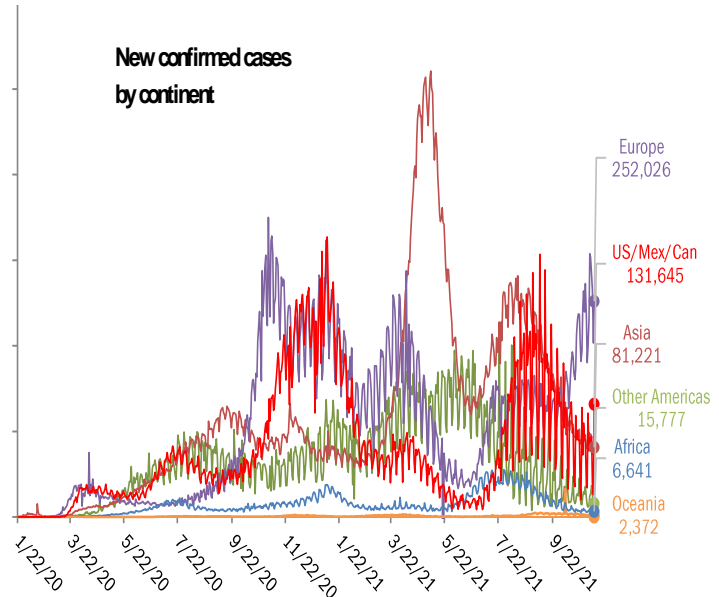
Data Insights: Covid-2019 Monitor

Tuesday, November 9, 2021

The global scorecard

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

The worst ten countries			
New cases		New Deaths	
United States	+126,850	United States	+1,230
Russia	+38,257	Russia	+1,164
United Kingdom	+32,325	Ukraine	+499
Turkey	+27,824	Bulgaria	+334
Belgium	+24,367	India	+332
Germany	+23,714	Romania	+241
Hungary	+17,834	Hungary	+214
Ukraine	+14,211	Turkey	+187
Netherlands	+11,832	Germany	+168
India	+10,126	Iran	+140
+327,340		+4,509	
World	+491,182	World	+6,694
Top ten	67%	Top ten	67%



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

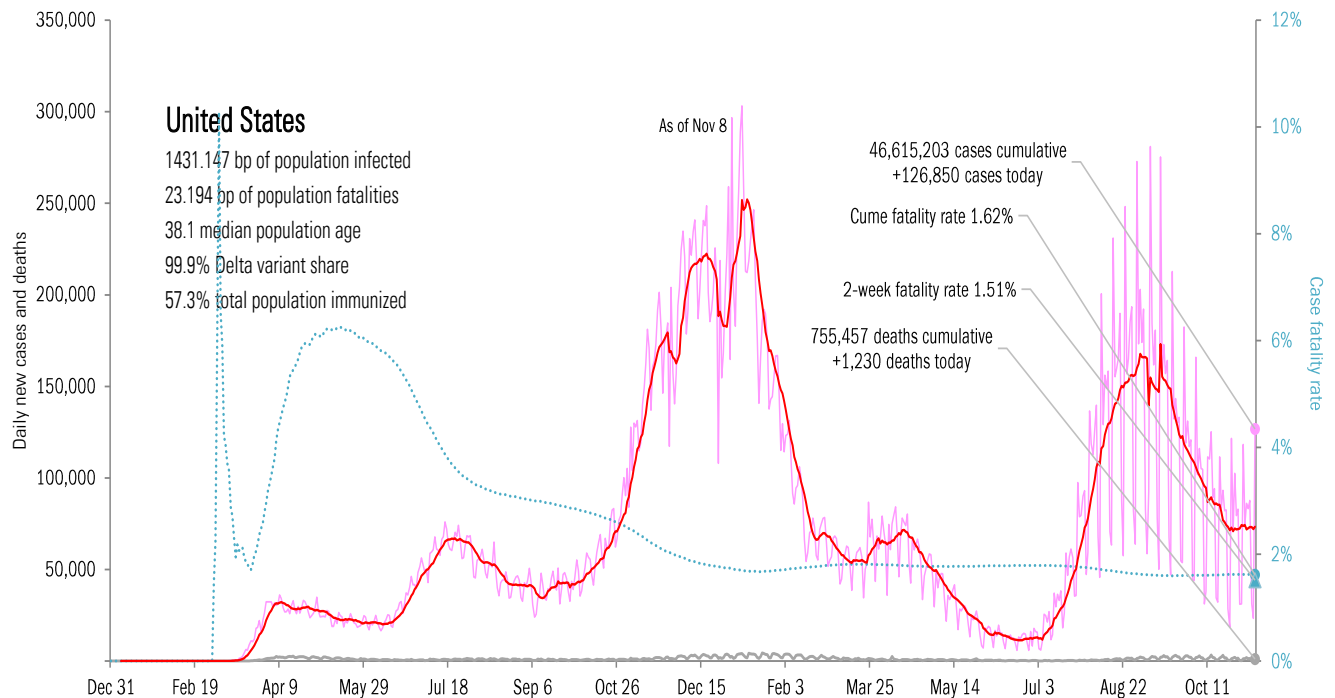
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
CA	+15,834		CA	+119		GA	+70		CA	4,976,544		CA	72,644		TX	376,781		RI	86%	NM	90%
MI	+10,069		FL	+107		IN	+49		TX	4,264,018		TX	72,009		FL	319,767		MA	83%	TX	86%
CO	+8,193		CO	+92		MI	+48		FL	3,703,372		FL	60,239		CA	313,107		PA	82%	KY	86%
IL	+7,359		KY	+80		CO	+44		NY	2,594,515		NY	56,749		NY	165,359		MD	82%	ID	85%
WI	+5,598		NC	+66		VI	+33		IL	1,720,345		PA	31,915		GA	160,553		MN	82%	CO	84%
WA	+5,221		VA	+65		IA	+26		GA	1,641,036		GA	29,483		CH	125,392		MI	81%	NV	84%
NY	+5,218		OR	+58		AZ	+25		PA	1,597,065		IL	28,419		PA	118,683		CT	81%	NE	83%
IN	+4,850		SC	+55		UT	+21		CH	1,575,319		NJ	28,092		KY	111,939		MO	80%	MI	82%
NC	+4,625		AK	+53		CT	+20		NC	1,494,278		CH	25,067		IL	105,734		GA	79%	CK	82%
MA	+4,326		MI	+52		SC	+18		MI	1,319,724		MI	24,027		MI	93,508		NY	79%	DE	82%
+71,293			+747			+354			24,886,216			428,644			1,890,823						
All states	+126,850		+1,230			+329			All states	46,615,203		755,457			3,384,760			All states	70%	67%	
Top ten	56%		61%			108%			Top ten	53%		57%			56%			Median	74%	76%	

Some states not reporting

Five most improved US states

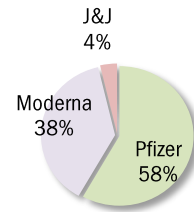
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CH	-1,241	AR	-14	NY	-47	AK	+10 bp
WV	-631	HI	-12	NM	-34	AZ	+10 bp
AZ	-574	AZ	-1	NV	-31	CO	+10 bp
AR	-266	AL	0	NE	-18	FL	+10 bp
MD	-172	AS	0	NJ	-16	IL	+10 bp



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	444,141,869	+1.203 million	US	57.3%	66.6%
Boosters	25,222,016	+0.721 million	UK	67.2%	73.7%
	One dose	% Pop	Immune	% pop	New immune today
Total population	229,657,820	69%	199,027,090	60%	+0.172 million
Age 12 to 17	14,297,884	60%	12,018,238	50%	+0.015 million
Age 18 to 64	158,462,226	78%	137,517,443	68%	+0.132 million
Age 65 and over	55,612,173	101%	48,562,347	89%	+0.024 million



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



Every American >18 immunized in **53 days** by Dec 31, 2021
 72.1% of population >18 immunized
 16.6% previously tested positive
88.7% vs 60% adult herd immunity

France	68.3%	76.1%
Spain	80.0%	81.5%
Germany	66.5%	69.1%
Italy	72.1%	77.5%
Australia	67.4%	75.0%
Israel	61.9%	67.3%
Canada	74.9%	78.7%
Japan	74.4%	78.4%
Africa	6.3%	9.3%
India	24.8%	53.3%
Brazil	57.6%	75.1%
China	74.3%	80.0%

Global data differs due to sources, timing

AK	60.0%
	53.1%

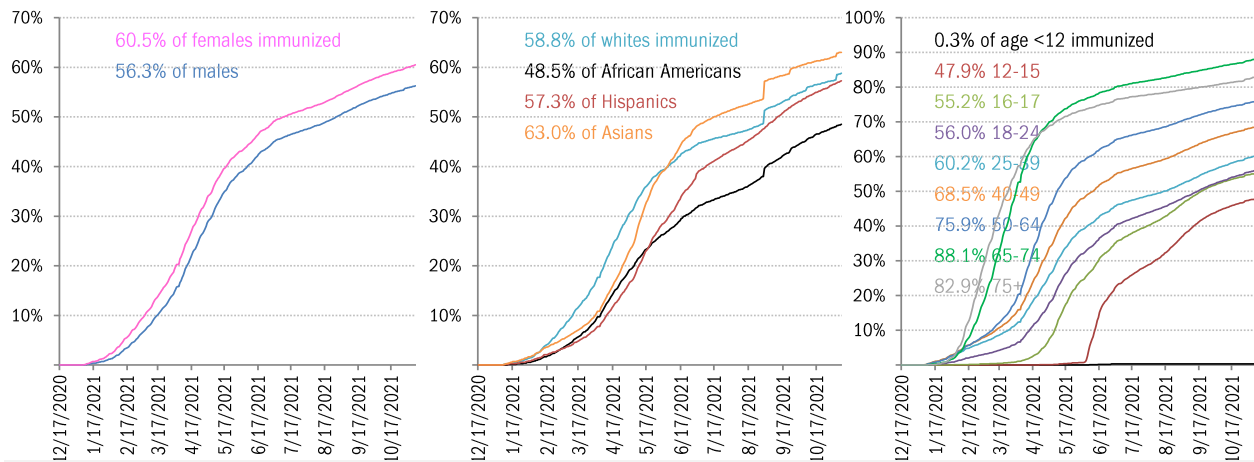
WI	63.3%
	58.7%

As of Nov 8

ME	77.6%
	71.0%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
69.9%	49.6%	57.4%	55.7%	66.0%	66.5%	58.8%	75.1%	80.6%	79.0%	
63.9%	44.3%	50.9%	47.9%	61.6%	61.0%	53.8%	67.2%	71.7%	63.4%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
69.0%	64.1%	51.5%	62.9%	60.1%	54.2%	56.3%	79.8%	75.9%	81.4%	
63.2%	53.5%	44.4%	53.3%	55.8%	50.1%	52.2%	61.1%	66.8%	70.1%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
75.4%	61.6%	68.4%	61.4%	57.4%	58.1%	49.2%	72.0%	73.4%	80.1%	79.1%
61.8%	54.1%	62.1%	56.5%	50.1%	51.1%	41.1%	63.6%	66.3%	71.1%	71.4%
AZ	NM	KS	AR	TN	NC	SC	DC	DE		
61.8%	73.0%	63.4%	58.6%	54.9%	65.6%	58.2%	76.3%	69.6%		
53.6%	62.5%	53.6%	48.4%	48.0%	53.2%	50.4%	63.1%	60.2%		
OK	LA	MS	AL	GA						
60.3%	54.2%	52.4%	55.0%	57.3%						
50.5%	48.0%	46.0%	45.1%	48.6%						
TX										
61.8%										
53.7%										
HI							FL		PR	
79.6%							69.6%		82.7%	
60.1%							60.2%		73.9%	

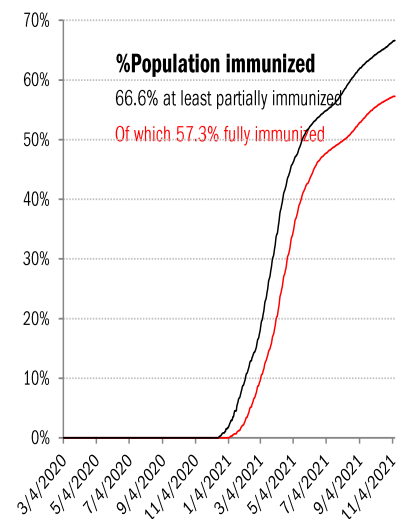
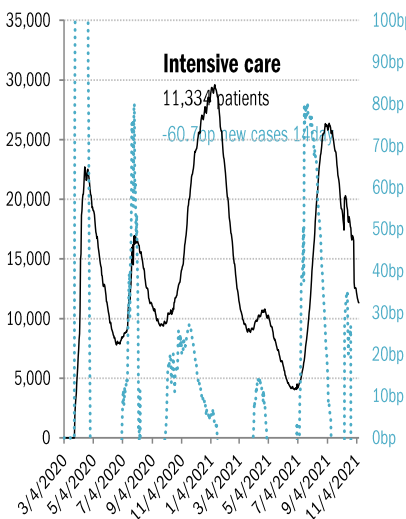
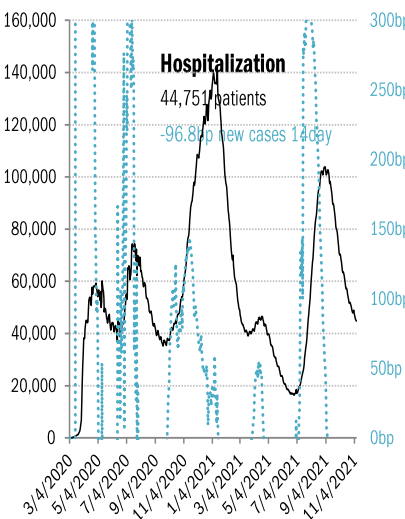
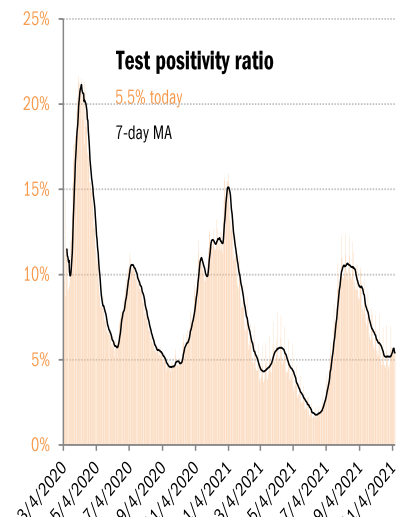
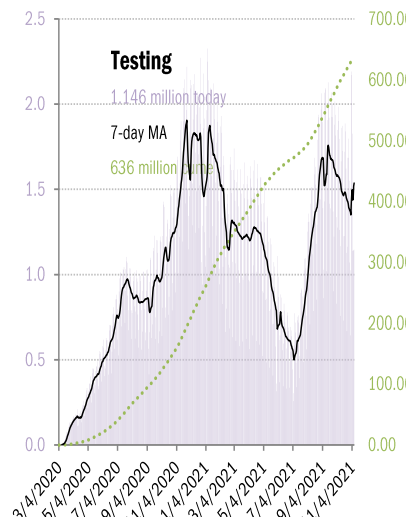
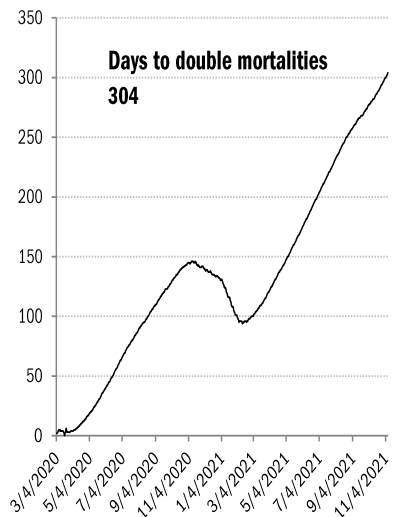
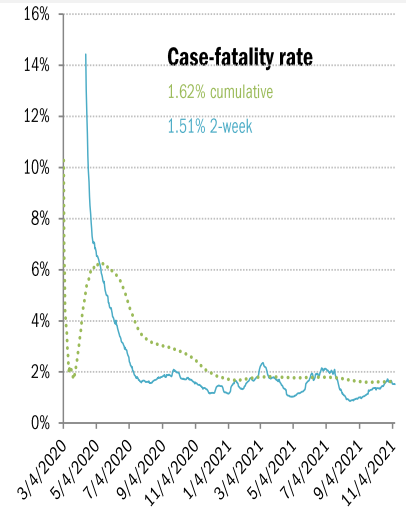
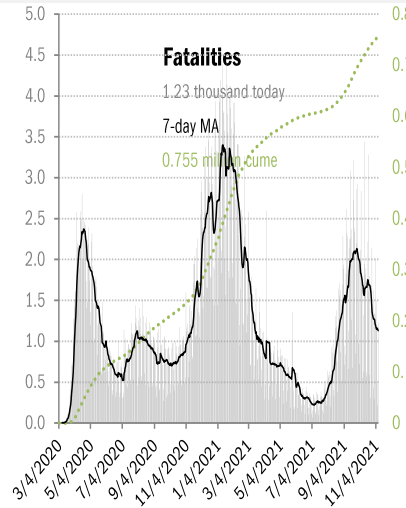
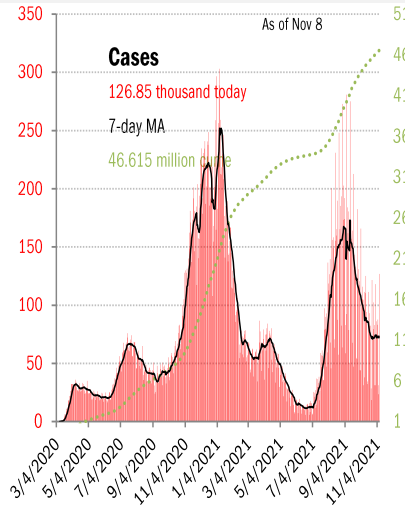
The demographics of US vaccination



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

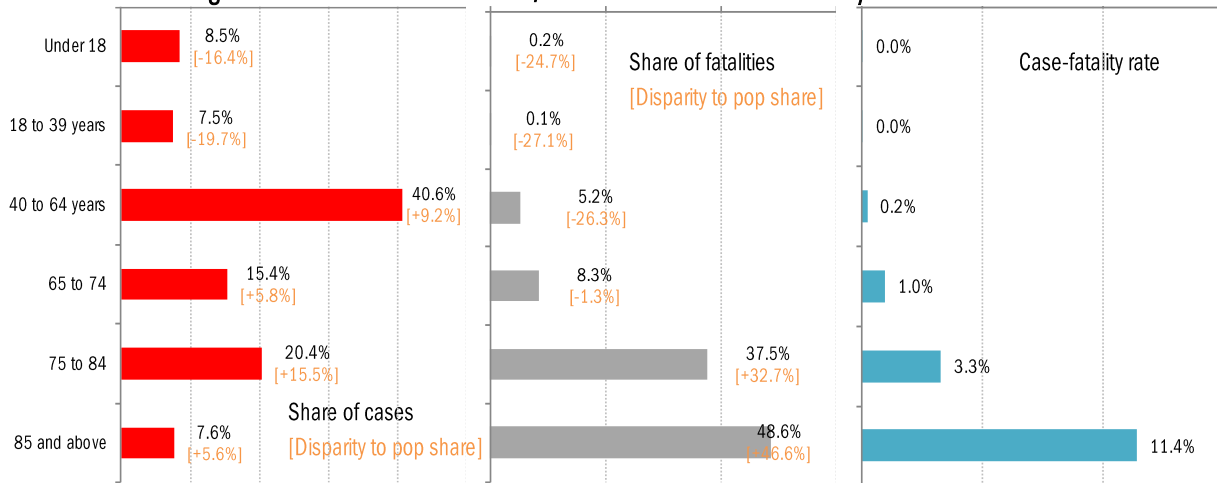
US deep-dive

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

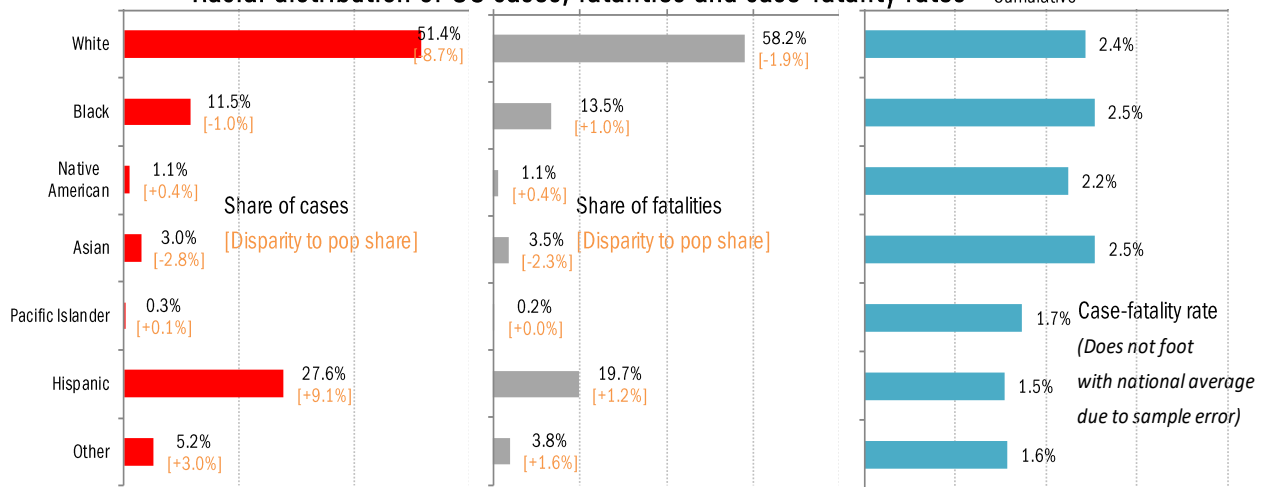


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

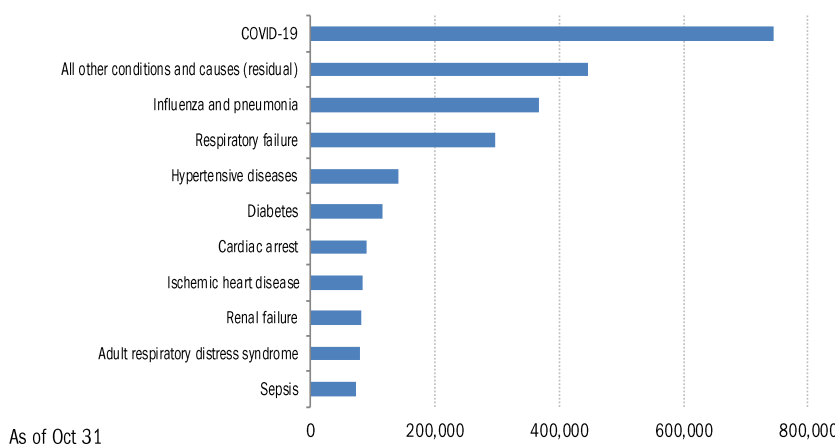


Racial distribution of US cases, fatalities and case-fatality rates



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

[Should You Vaccinate Your 5-Year-Old?](#)

Marty Makary
Wall Street Journal
November 8, 2021

[Japan reports no COVID-19 deaths for first time in 15 months](#)

Maureen Breslin
The Hill
November 8, 2021

[Vaccine-Mandate Debate Makes It to Top Federal Research Agency](#)

Jenny Strasburg
Wall Street Journal
November 7, 2021

[Teachers union head Randi Weingarten removes mask at conference, claims people had a 'hard time hearing'](#)

Kyle Morris
Fox News
November 7, 2021

[Aaron Rodgers Explains Why He Couldn't Get the COVID Vaccine.](#)

Matt Vespa
TownHall
November 5, 2021

[Pfizer says its Covid pill with HIV drug cuts the risk of hospitalization or death by 89%](#)

Berkeley Lovelace Jr.
CNBC
November 5, 2021

[SARS-CoV-2 vaccine protection and deaths among US veterans during 2021](#)

Barbara A. Cohn, et al.
Science
November 4, 2021

[Study shows dramatic decline in effectiveness of all three COVID-19 vaccines over time](#)

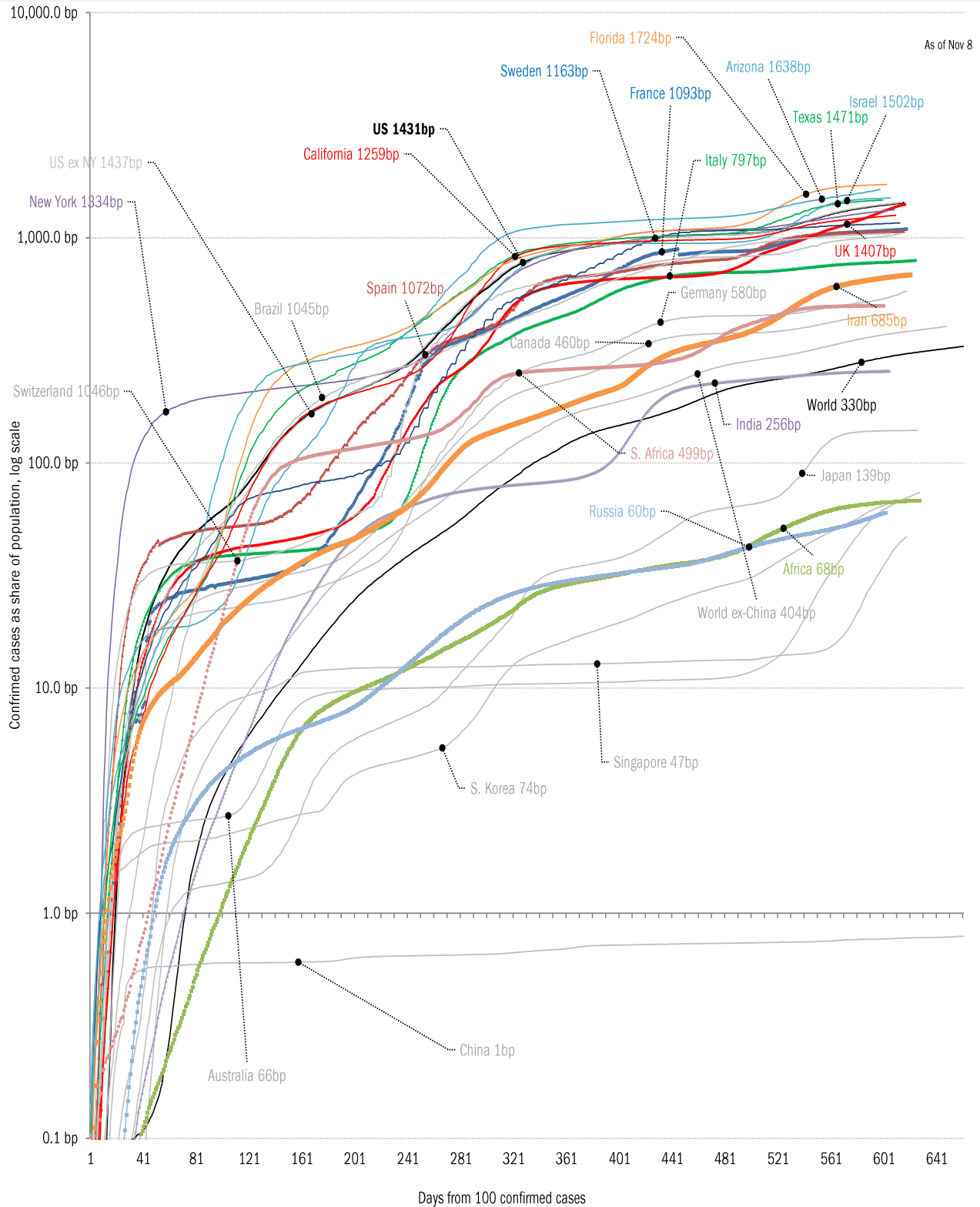
Melissa Healy
Los Angeles Times
November 4, 2021

Meme of the day



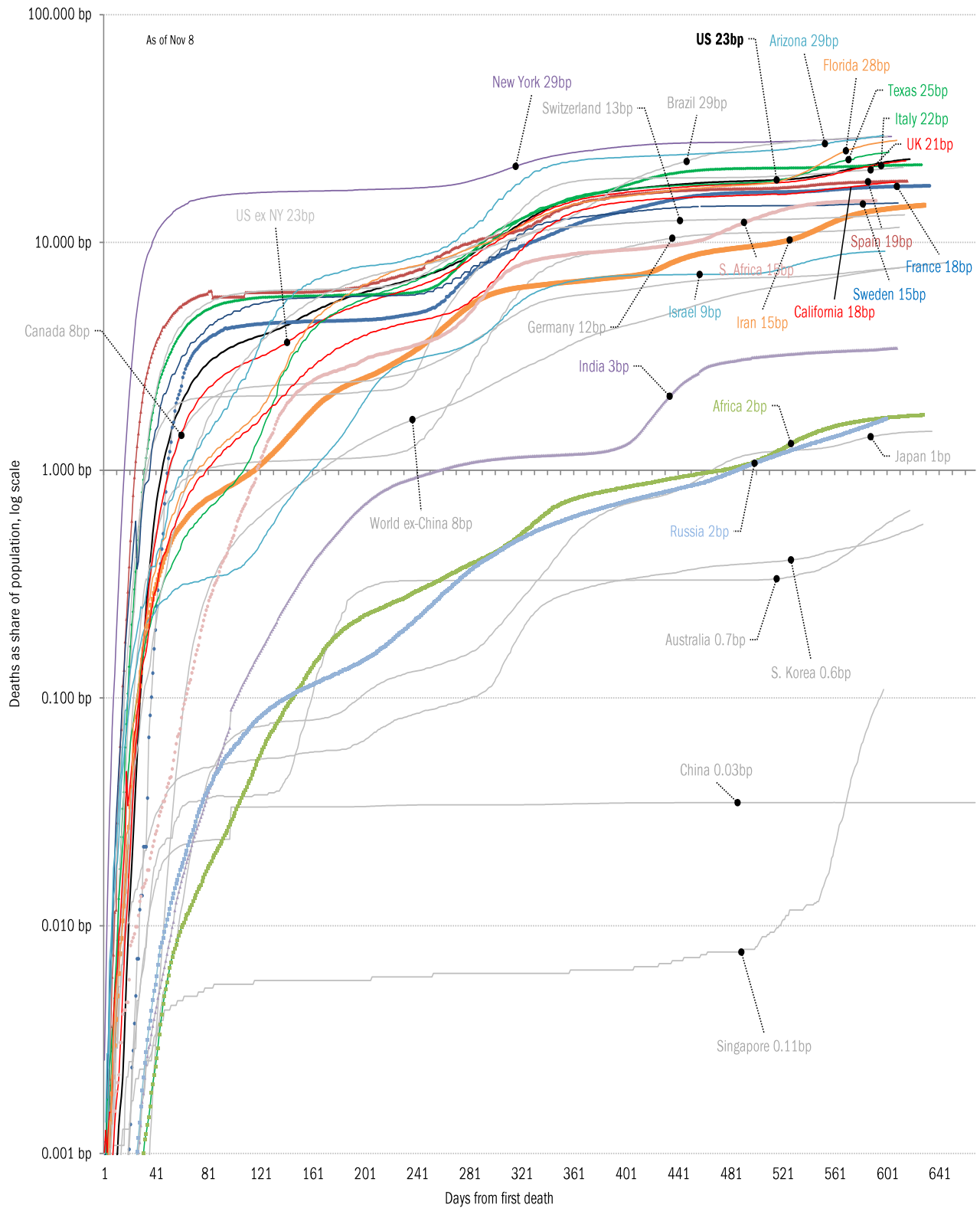
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

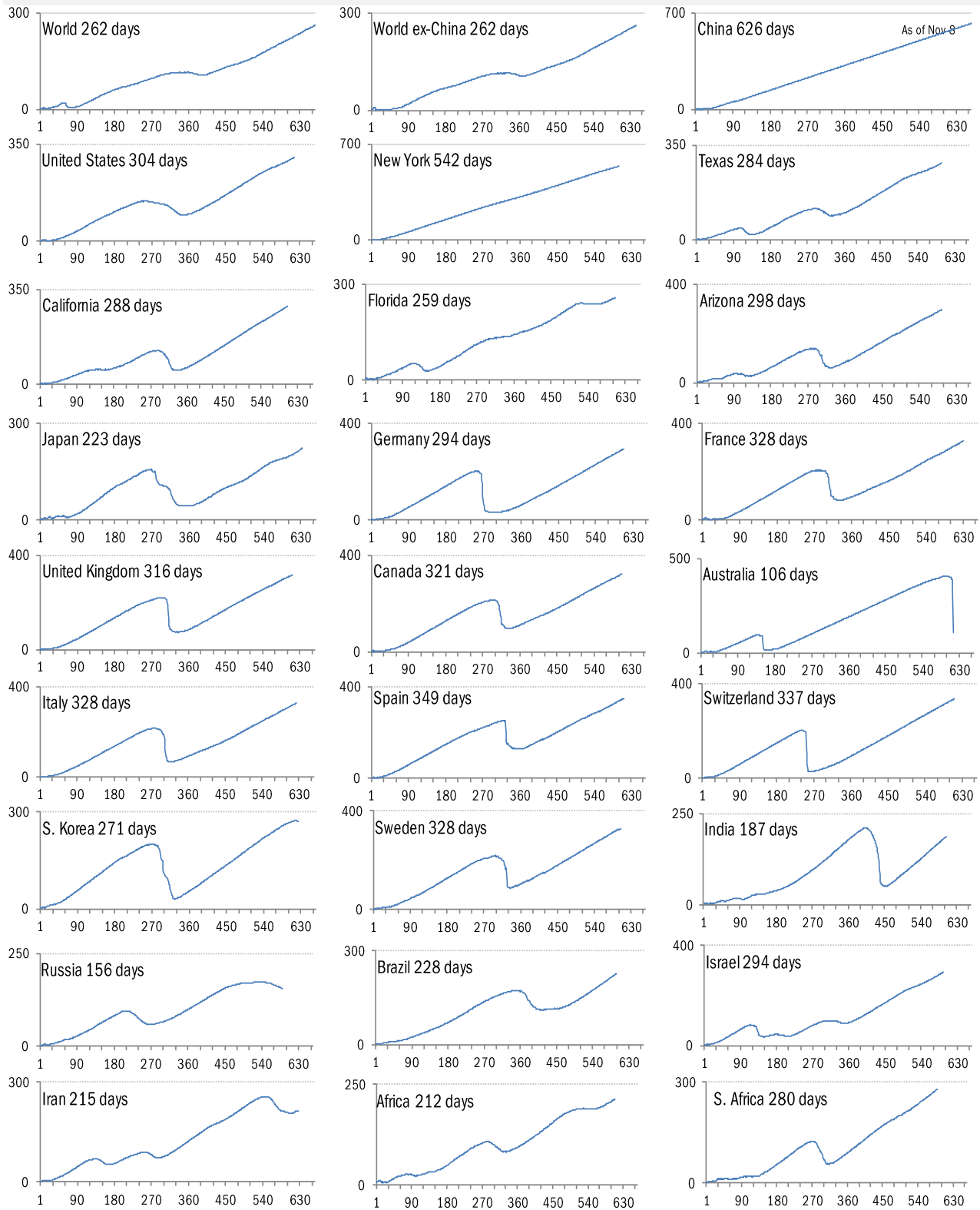


Source: [Johns Hopkins](#), TrendMacro calculations

"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

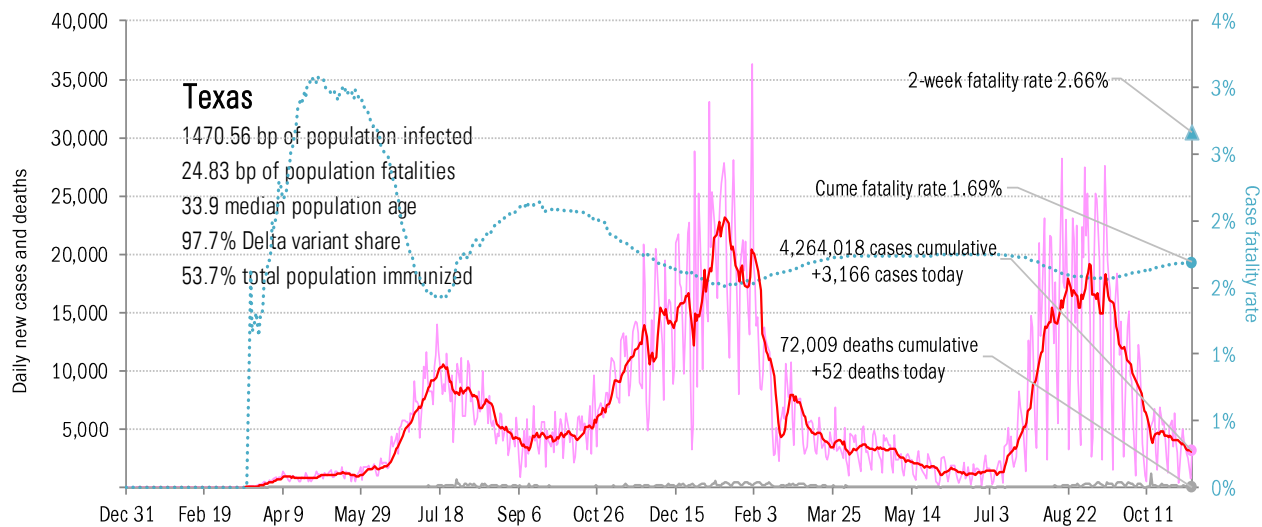
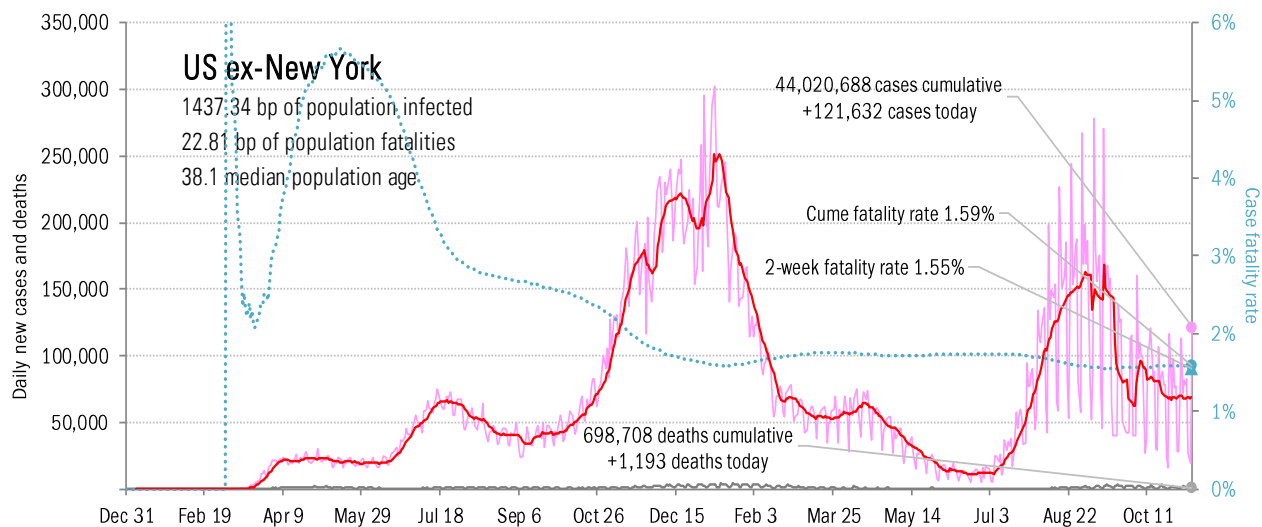
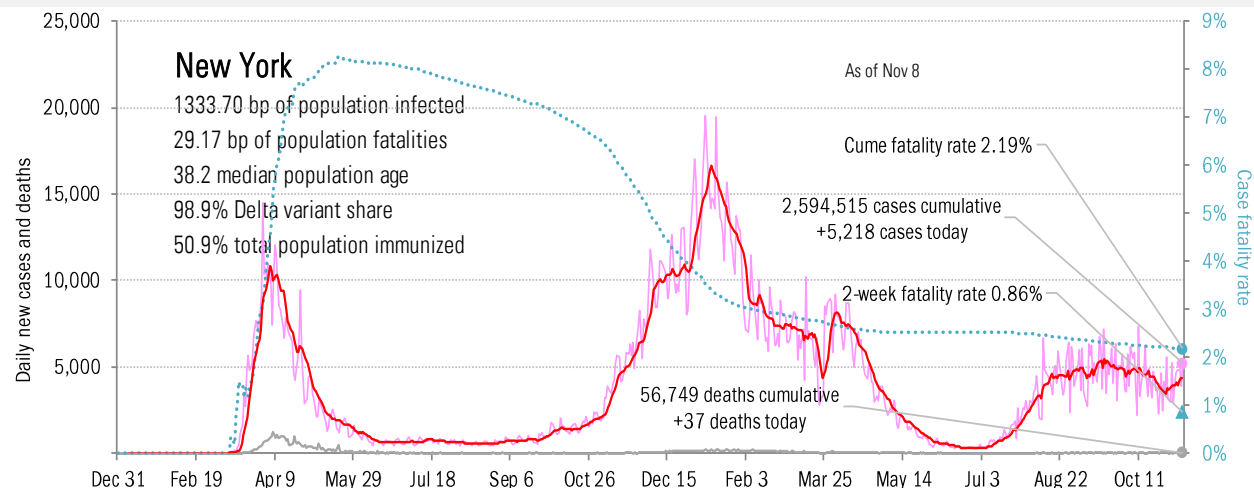
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

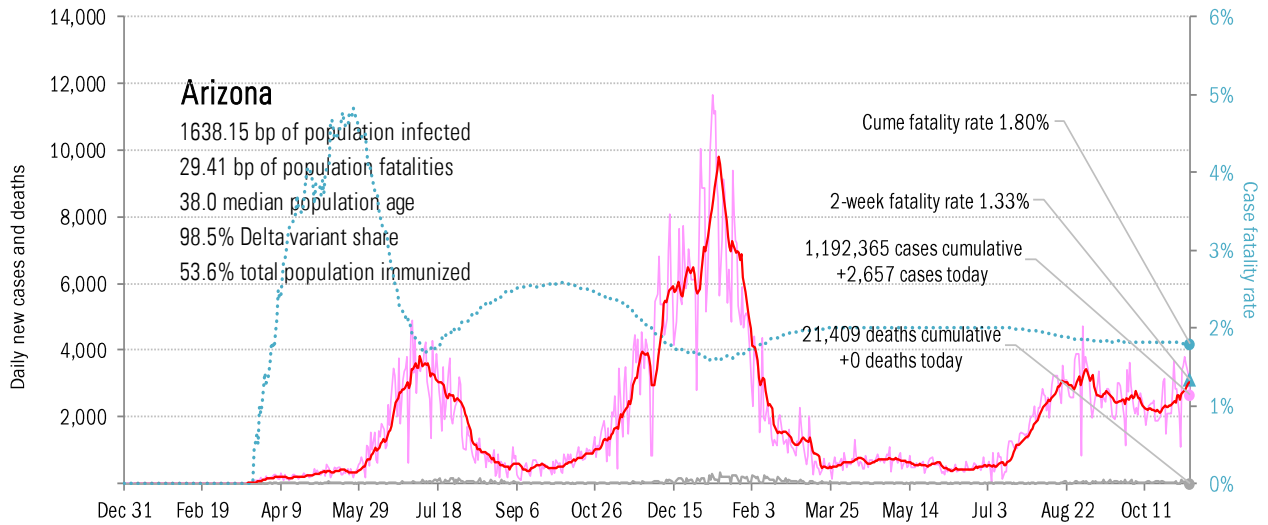
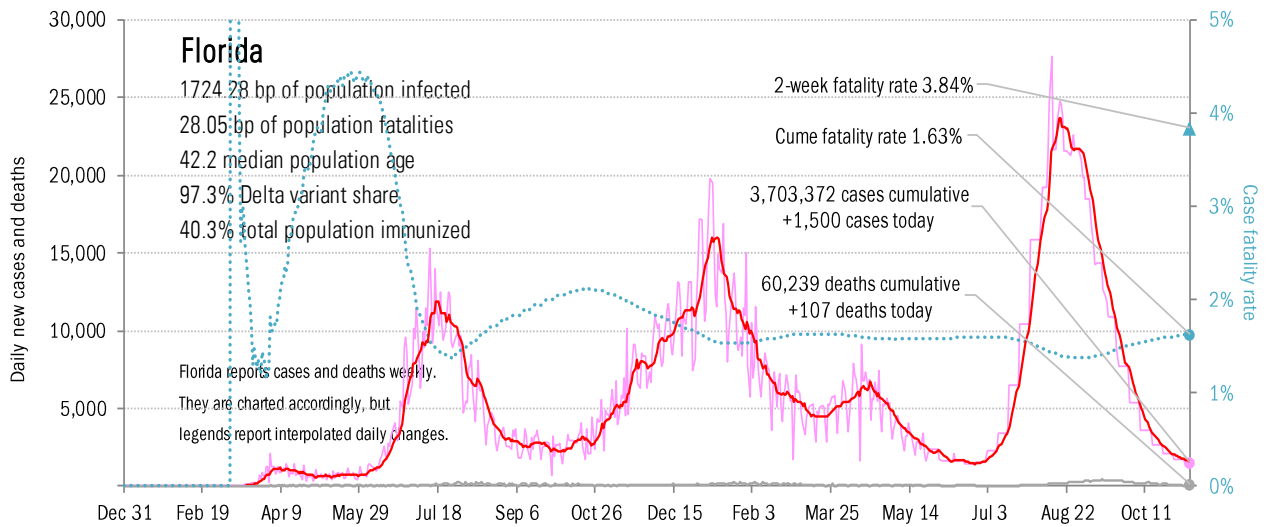
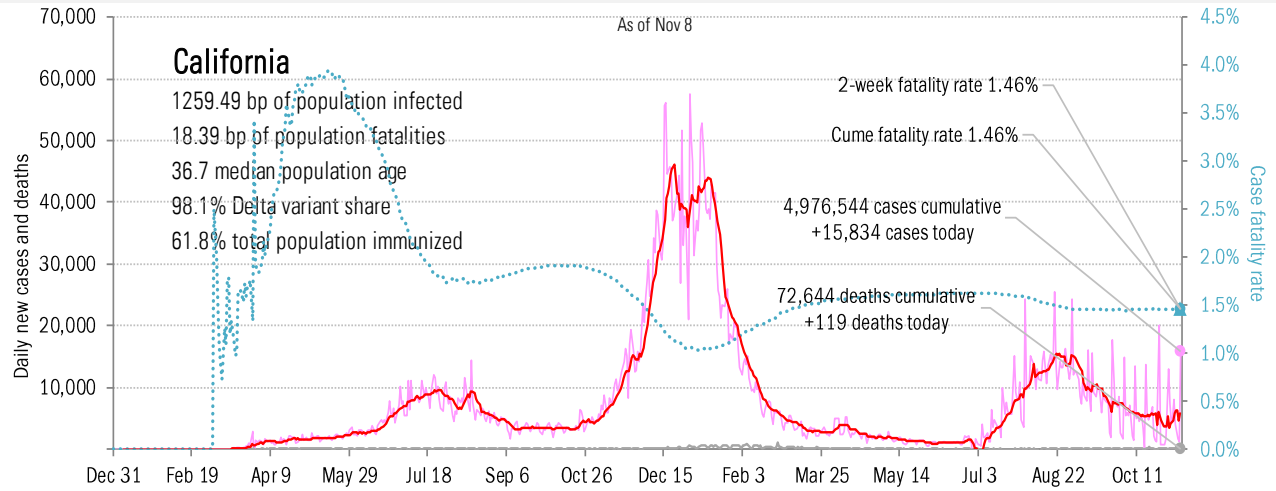
Cases: 7-day average and daily Deaths: Daily



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

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

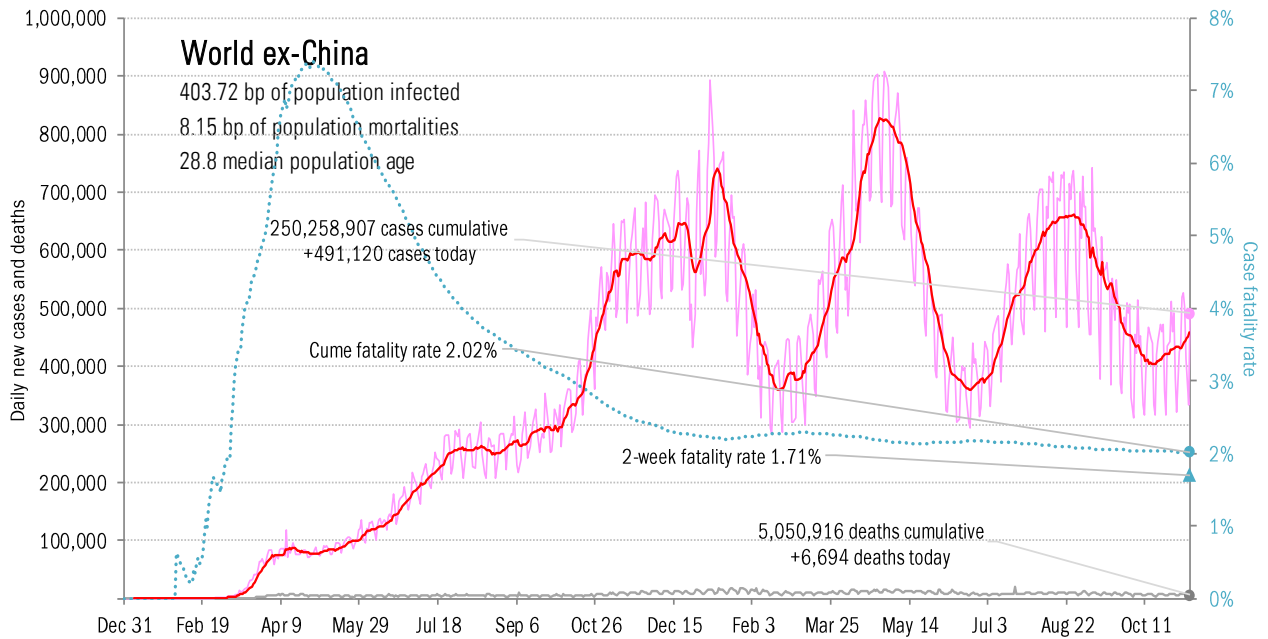
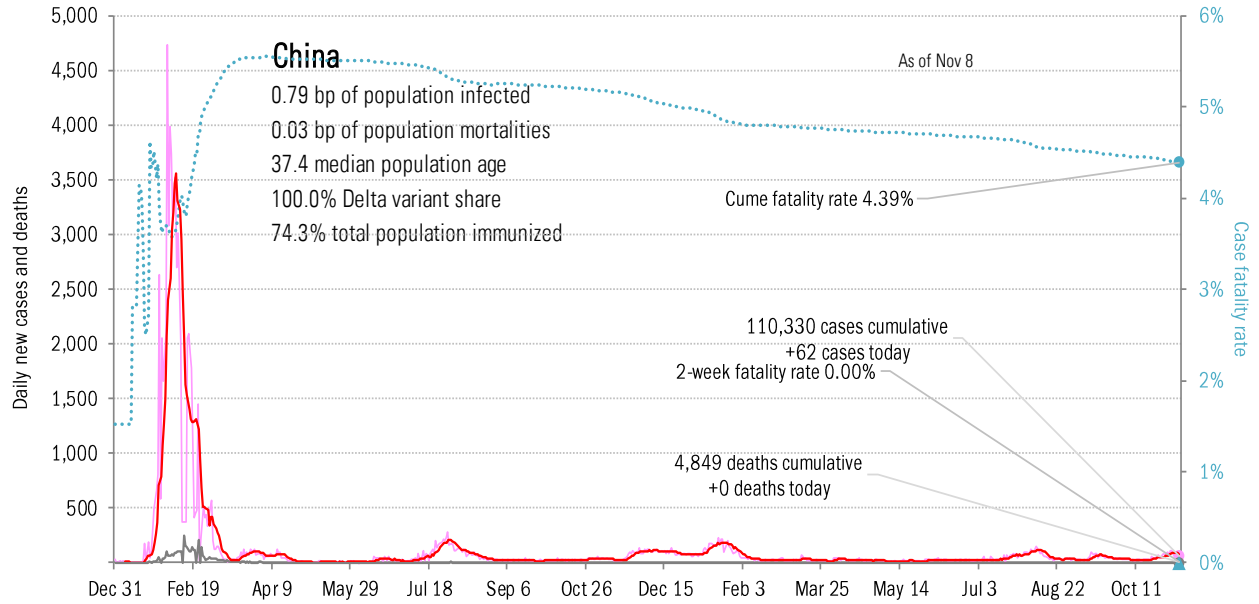
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

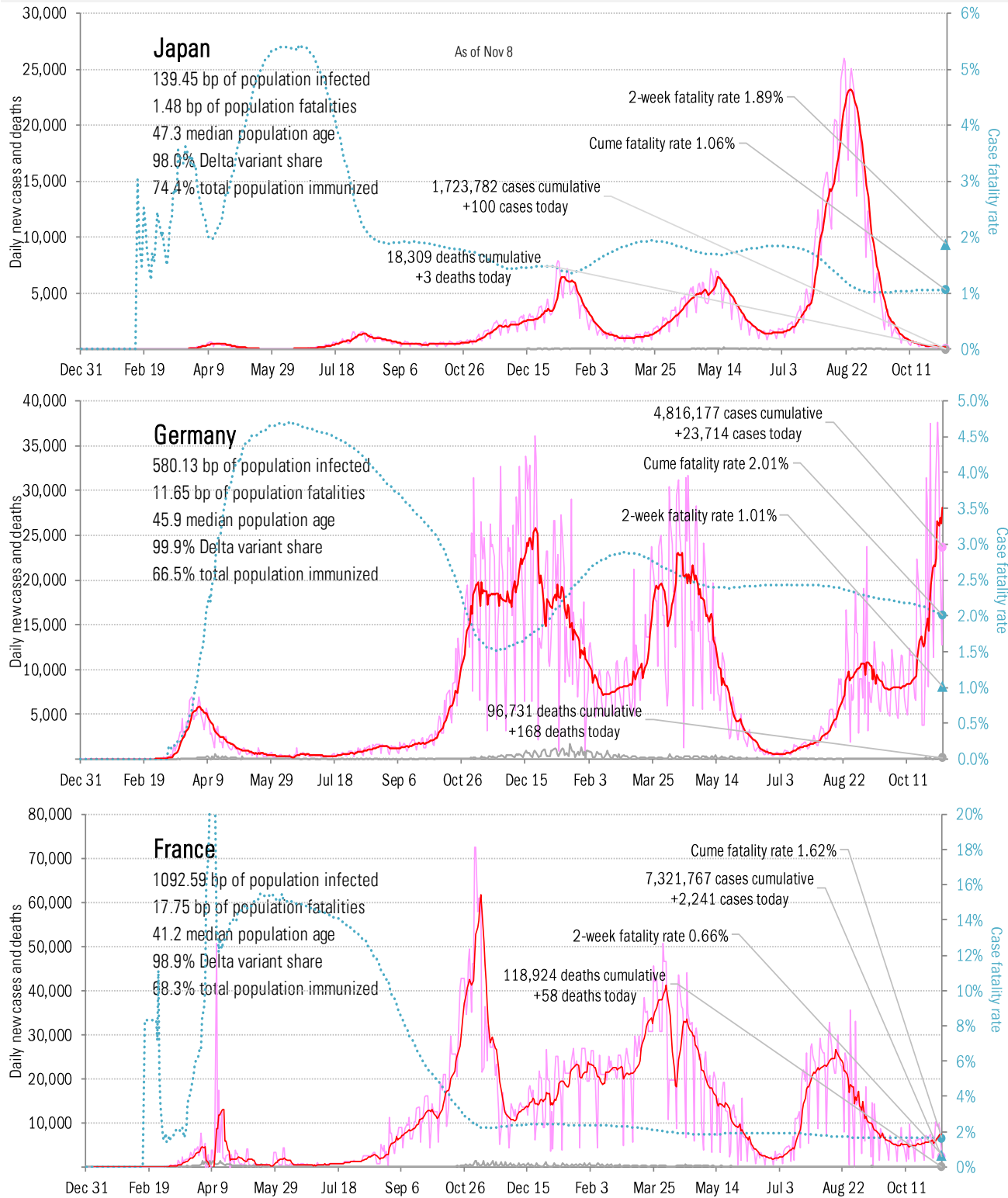
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

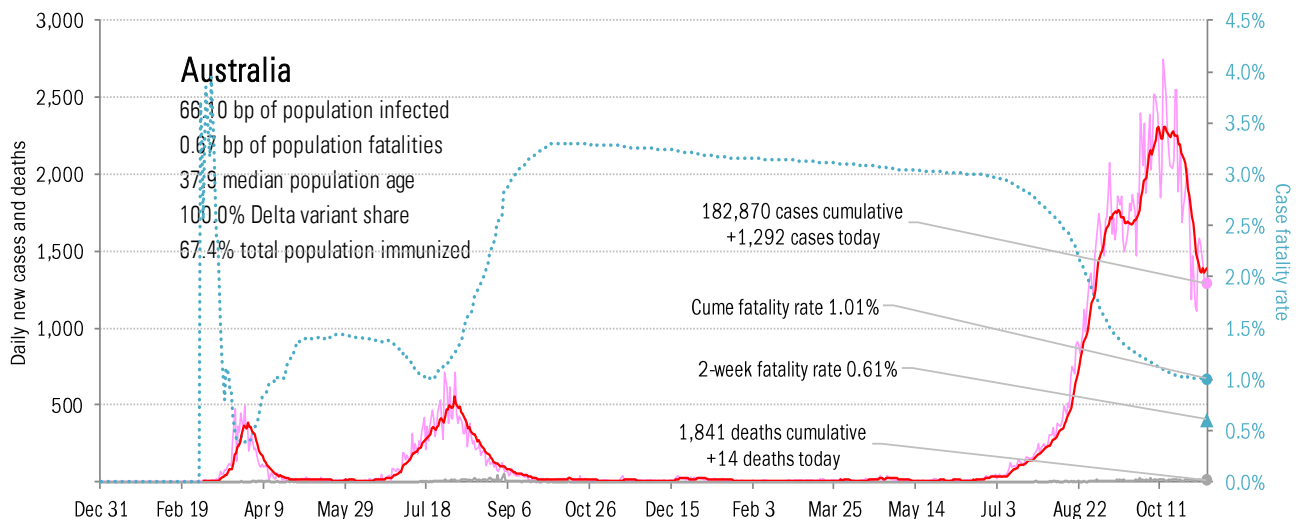
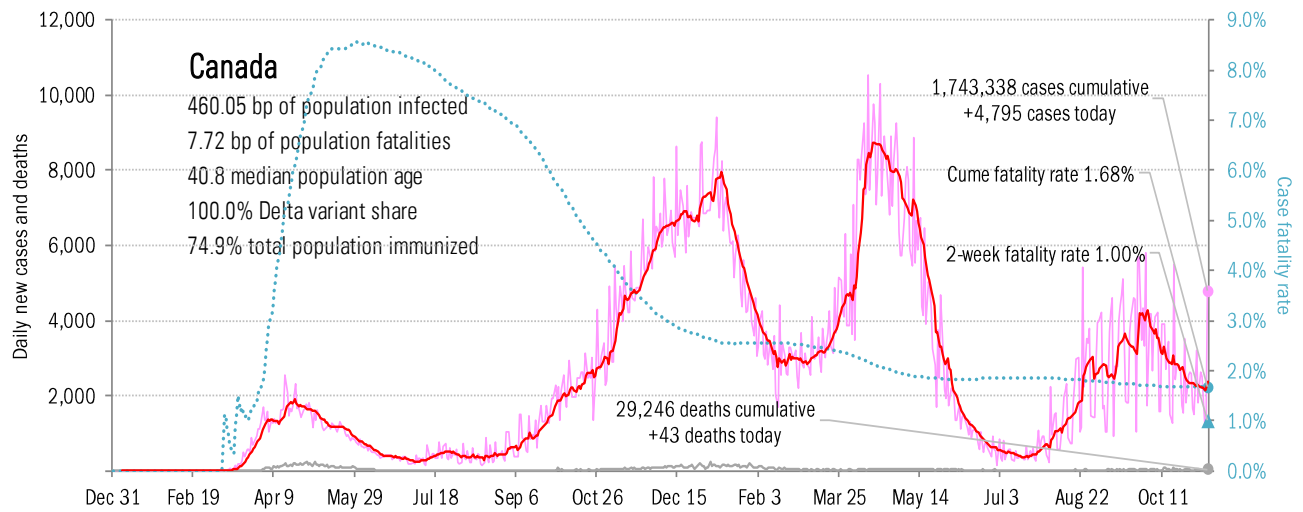
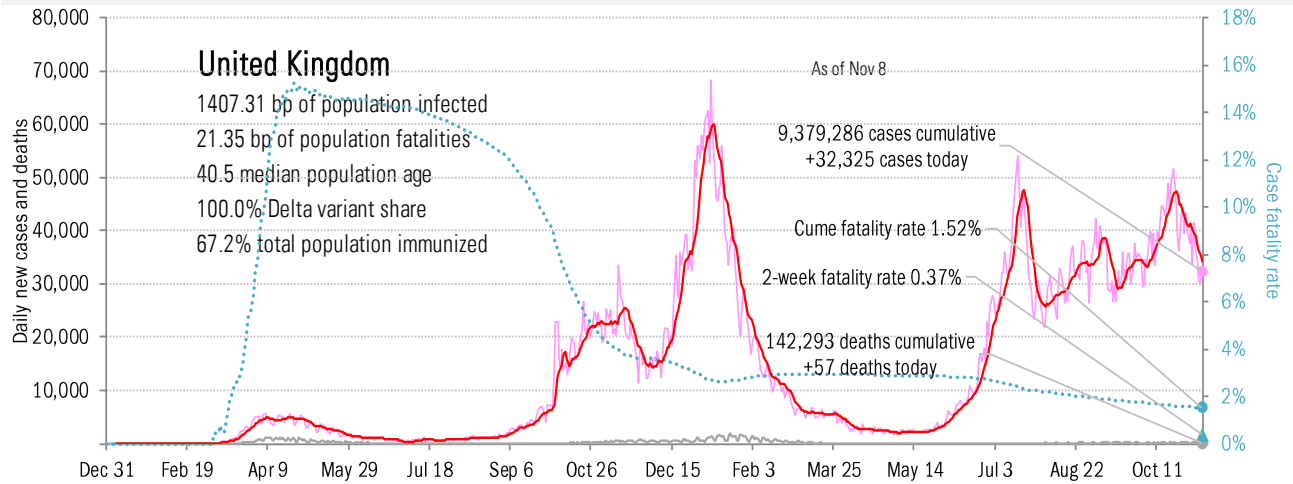
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

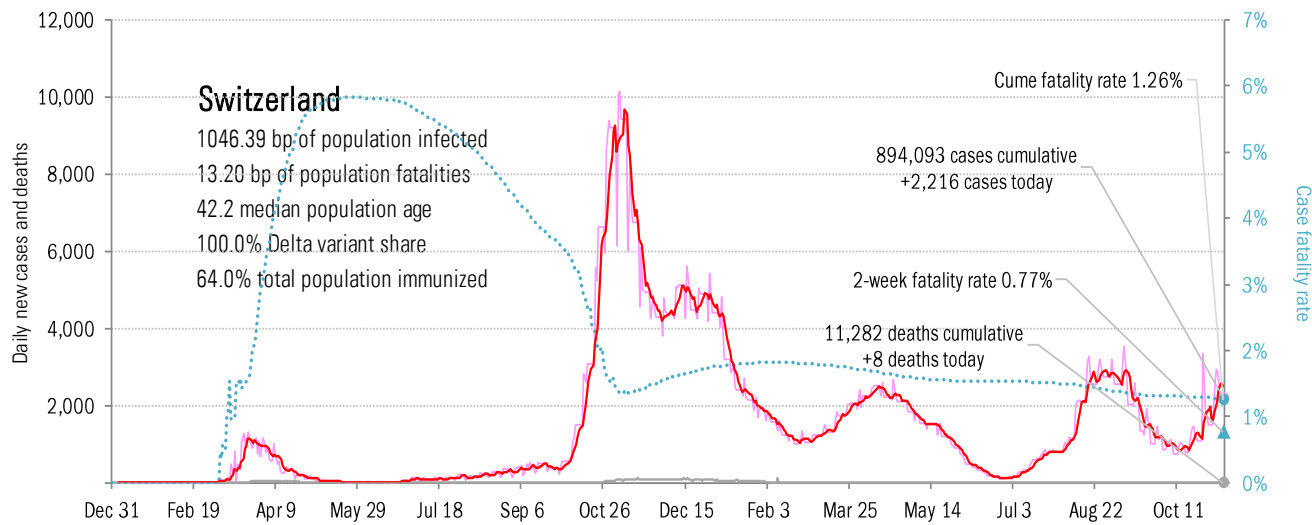
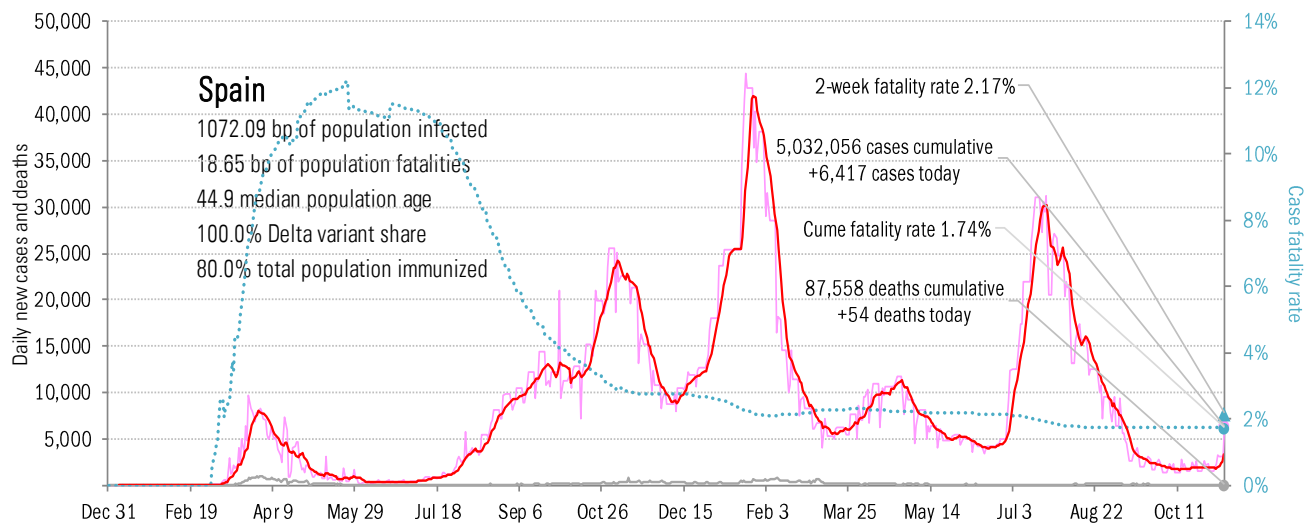
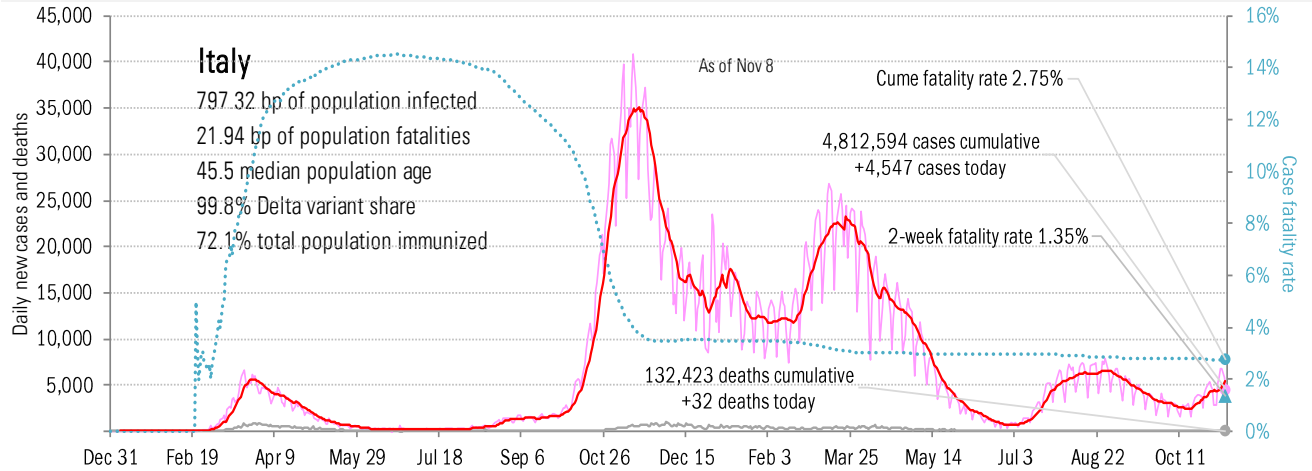
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

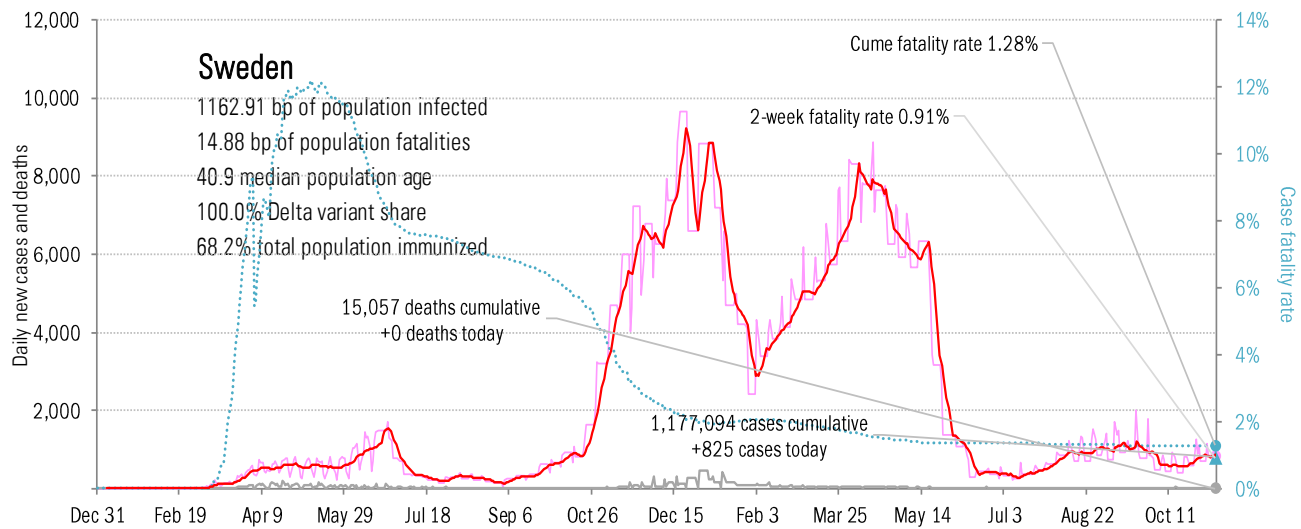
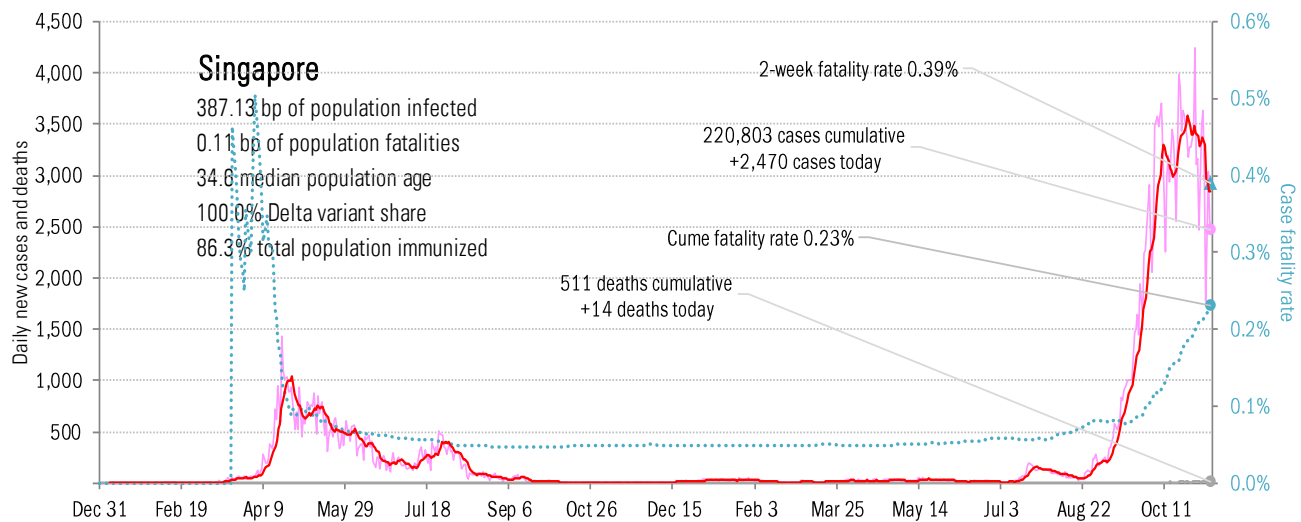
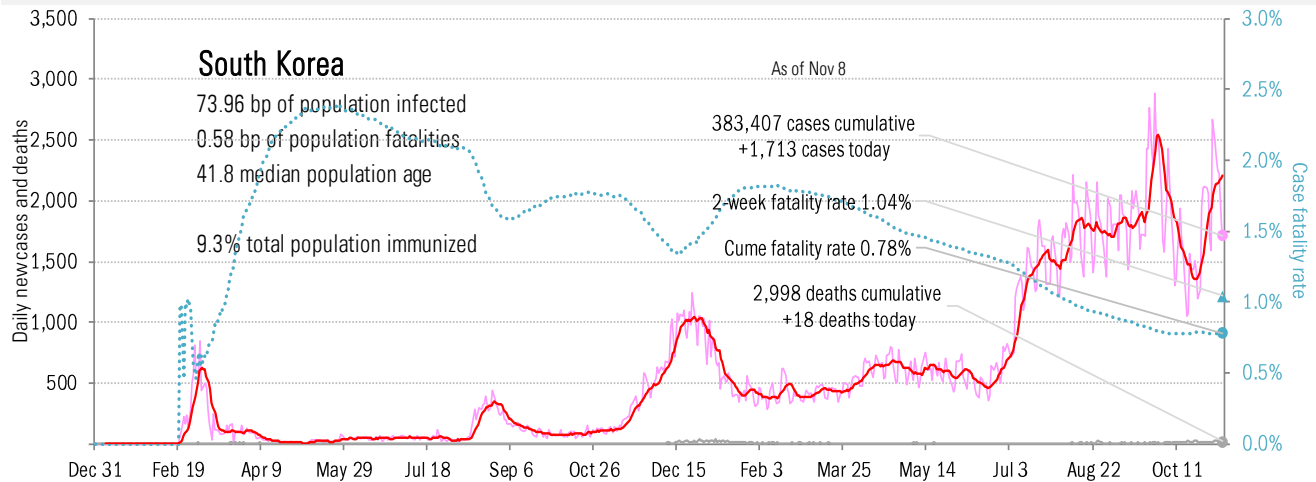
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

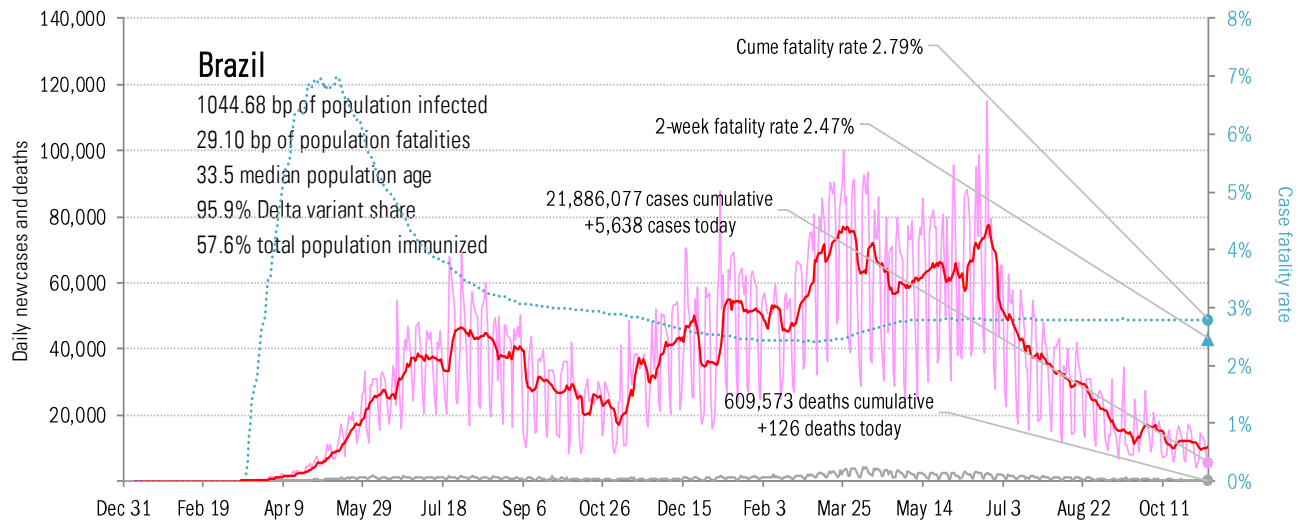
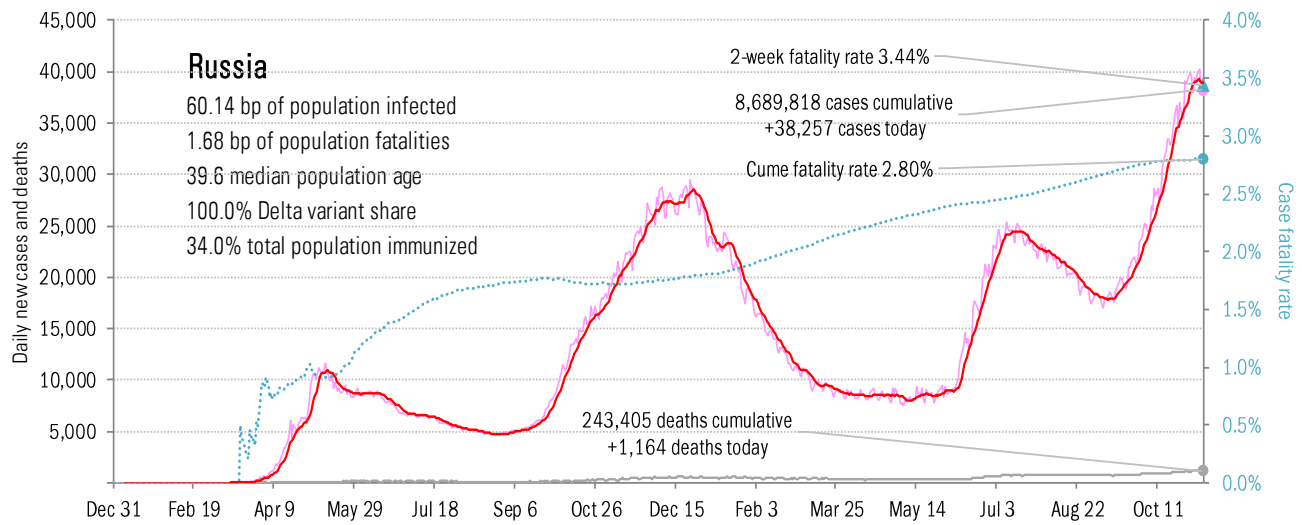
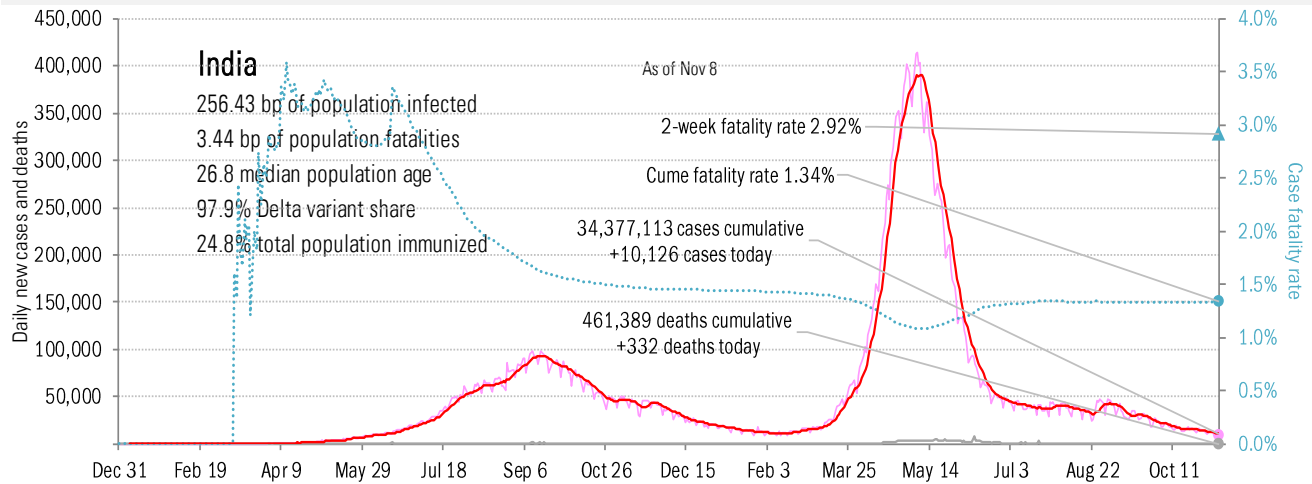
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

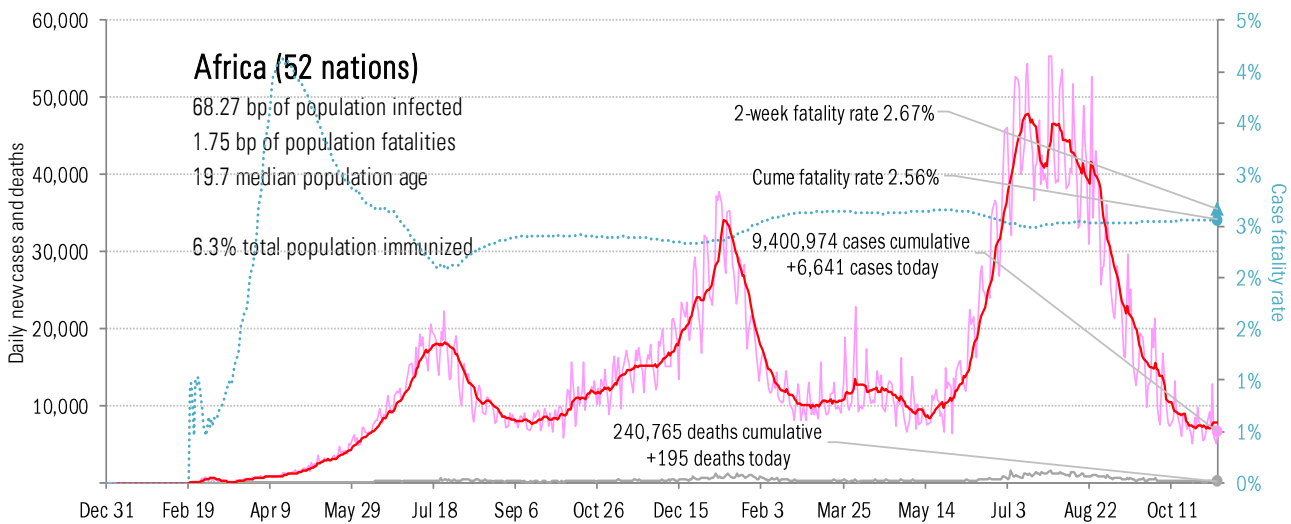
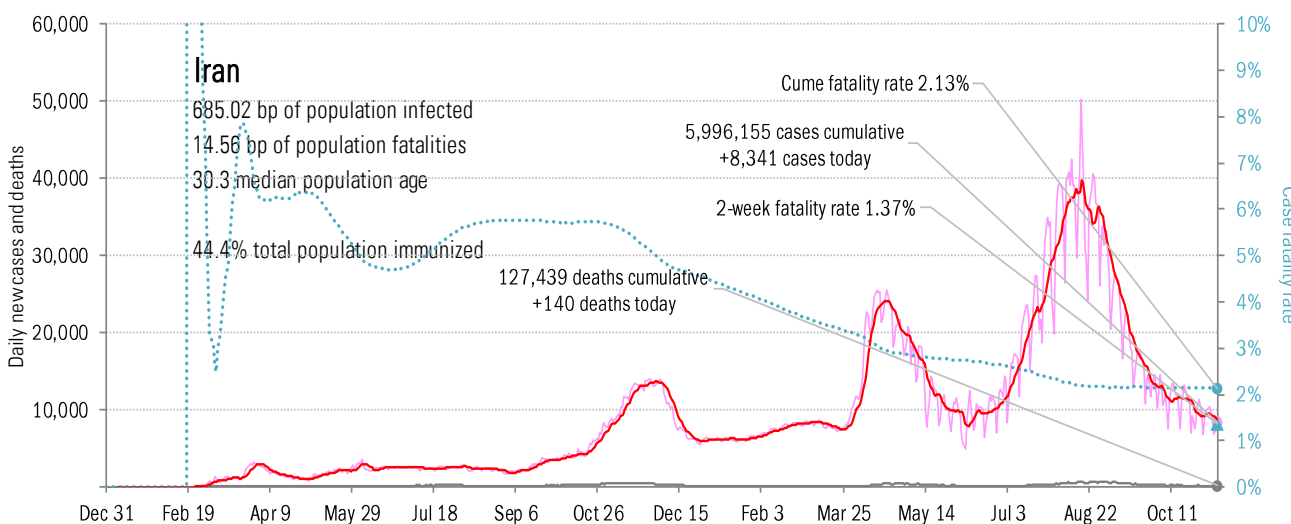
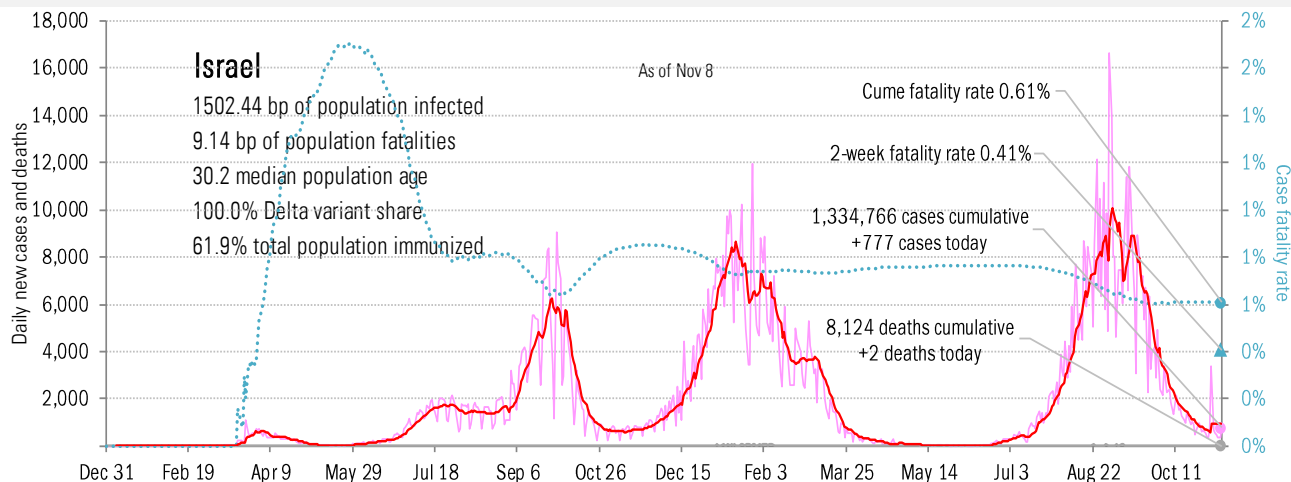
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

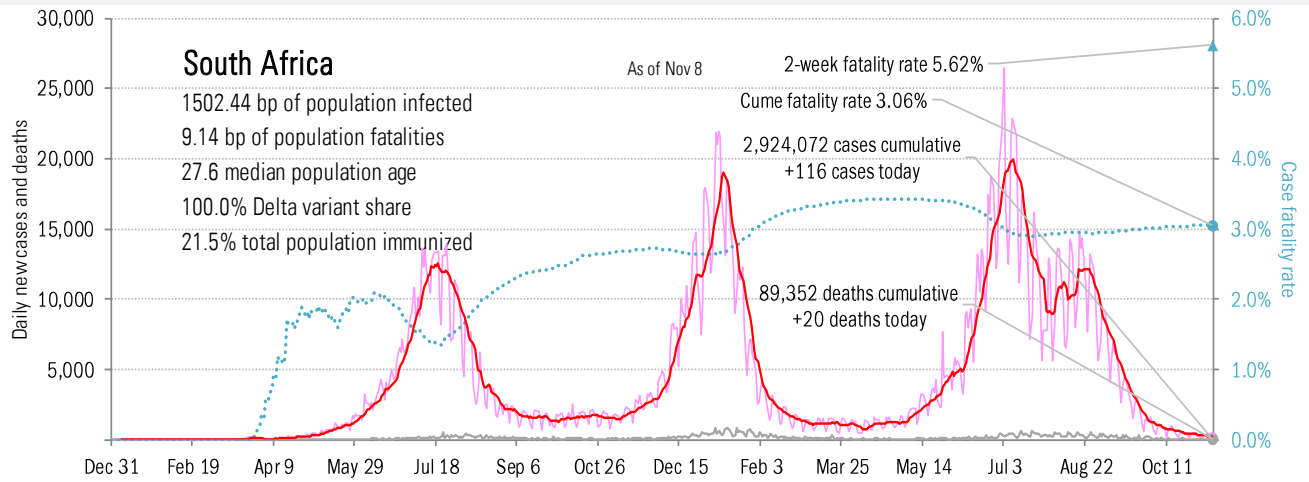
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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