

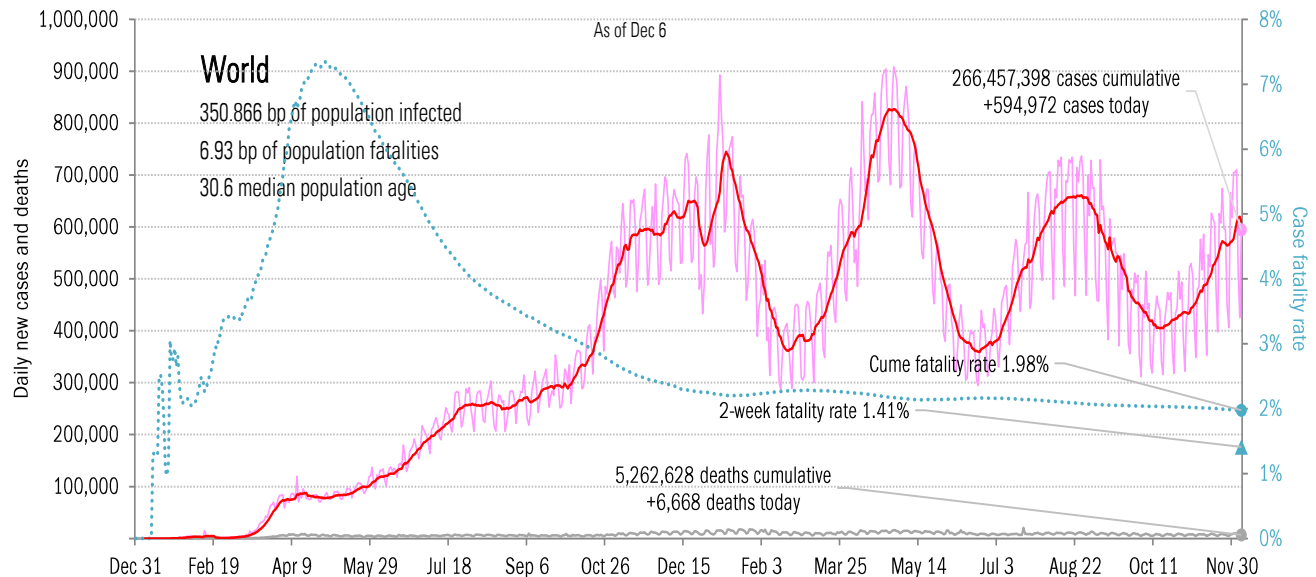
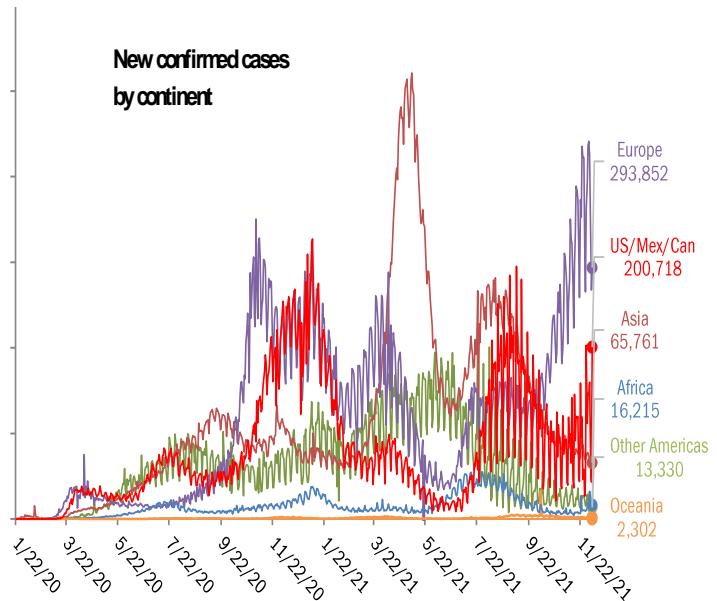
## Data Insights: Covid-2019 Monitor

Tuesday, December 7, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+195,711	United States	+1,330
United Kingdom	+51,746	Russia	+1,155
Belgium	+41,439	Hungary	+489
Russia	+31,569	Ukraine	+268
Switzerland	+23,895	Ecuador	+234
Hungary	+22,699	Vietnam	+223
Netherlands	+20,994	India	+220
Turkey	+20,033	Bulgaria	+208
Germany	+18,322	Turkey	+187
Vietnam	+14,591	Belgium	+152
<b>+440,999</b>		<b>+4,466</b>	
World +594,972		World +6,668	
Top ten 74%		Top ten 67%	



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

### For more information contact us:

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 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

Cases: 7-day average and daily Deaths: Daily

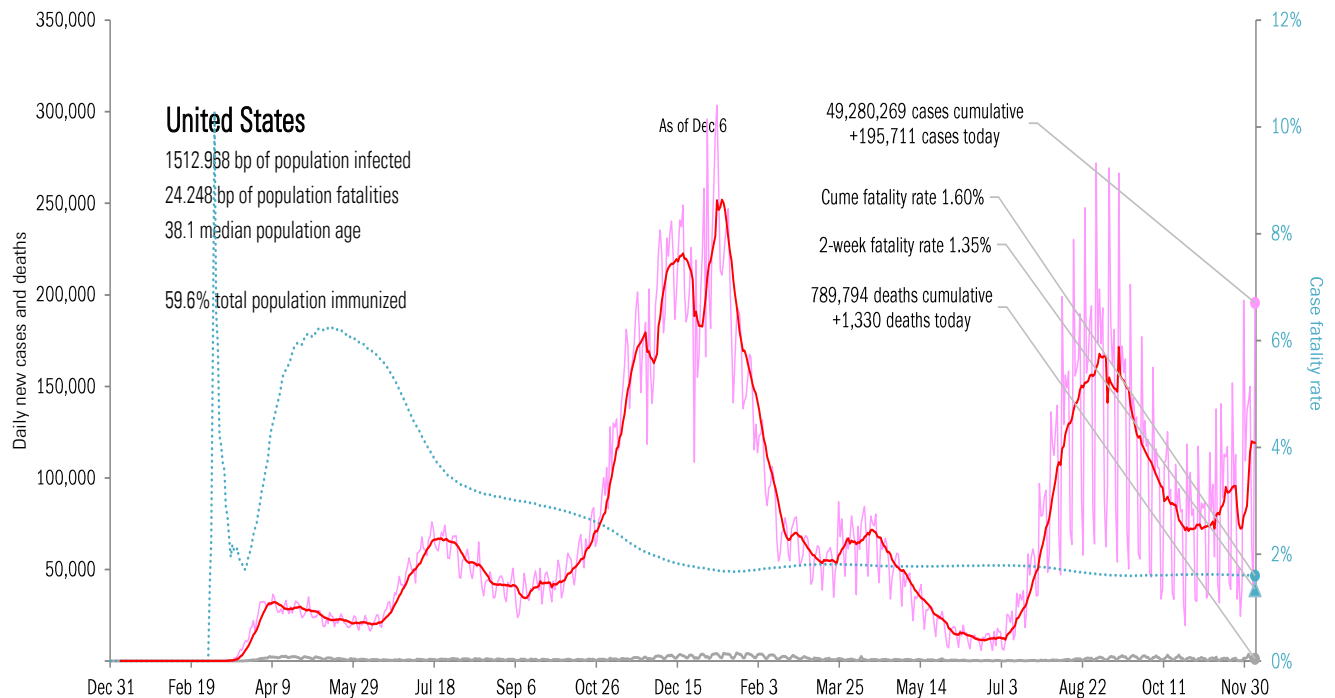
## The ten worst US states

New cases			New Deaths			New in hospital			Cumulative cases			Cumulative deaths			Cumulative in hospital			Hospital use		ICU use	
IL	+19,110		KY	+198		GA	+104		CA	5,127,121		CA	74,911		TX	386,853		RI	88%	RI	92%
MI	+17,822		MI	+131		IL	+87		TX	4,356,275		TX	74,217		FL	324,612		WA	85%	NM	90%
CA	+17,773		CA	+109		KY	+61		FL	3,743,049		FL	61,838		CA	322,768		PA	84%	TX	90%
IN	+12,384		TN	+87		TX	+55		NY	2,788,476		NY	57,816		NY	175,339		MI	83%	NE	90%
MA	+11,619		IL	+85		VI	+41		IL	1,854,186		PA	33,962		GA	164,028		MD	83%	KY	89%
NY	+10,534		PA	+60		MN	+40		PA	1,783,118		GA	30,691		CH	138,683		GA	83%	NH	87%
NC	+8,568		NY	+59		MD	+35		CH	1,735,925		IL	29,053		PA	129,956		MO	83%	MN	86%
VA	+6,456		SC	+42		NC	+35		GA	1,671,787		NJ	28,465		KY	115,641		MN	82%	MI	86%
MN	+6,094		NV	+40		PA	+35		NC	1,553,112		CH	26,851		IL	113,054		CT	82%	PA	85%
CT	+5,481		MN	+38		MA	+33		MI	1,535,147		MI	26,239		MI	106,601		WV	82%	VT	85%
+115,841			+849			+526			26,148,196			444,043			1,977,535						
All states	+195,711		+1,330			+574			All states	49,280,269		789,794			3,559,615			All states	70%	67%	
Top ten	59%		64%			92%			Top ten	53%		56%			56%			Median	77%	78%	

Some states not reporting

## Five most improved US states

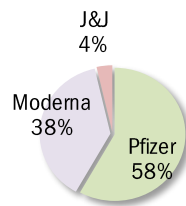
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
PA	-2,124	FL	-65	NY	-59	MP	+40 bp
AZ	-798	AZ	-28	IN	-58	AK	+30 bp
DE	-532	TX	-10	NJ	-50	MA	+30 bp
NJ	-507	NH	-6	KS	-27	PA	+30 bp
VT	-452	AR	-5	MI	-26	CO	+20 bp



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	484,457,497	+1.416 million	US	59.6%	71.1%
Boosters	47,835,925	+0.748 million	UK	68.3%	75.0%
	<b>One dose</b>	<b>% Pop</b>	<b>Immune</b>	<b>% pop</b>	<b>New immune today</b>
Total population	241,902,757	72%	204,408,680	61%	+0.351 million
Age 12 to 17	14,776,787	62%	12,385,400	52%	+0.016 million
Age 18 to 64	164,019,824	80%	140,674,654	69%	+0.092 million
Age 65 and over	57,266,428	100%	49,057,828	89%	+0.015 million



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

Every American >18 immunized in **69 days** by Feb 12, 2022  
 73.3% of population >18 immunized  
 17.3% previously tested positive  
**90.7%** vs 60% adult herd immunity

France	70.3%	77.1%
Spain	80.6%	82.2%
Germany	68.5%	71.4%
Italy	73.2%	78.6%
Australia	73.9%	78.0%
Israel	62.3%	68.7%
Canada	76.5%	81.2%
Japan	77.6%	79.3%
Africa	7.7%	11.7%
India	34.5%	57.6%
Brazil	64.2%	76.9%
China	76.9%	84.8%

Global data differs due to sources, timing

AK	63.6%
	55.0%

WI	66.4%
	60.2%

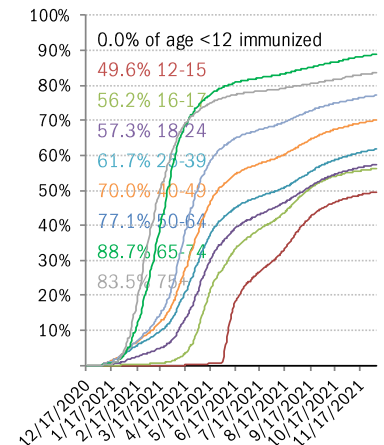
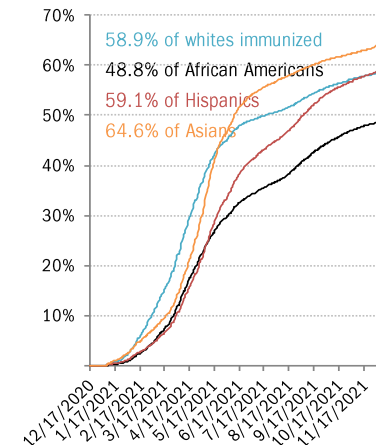
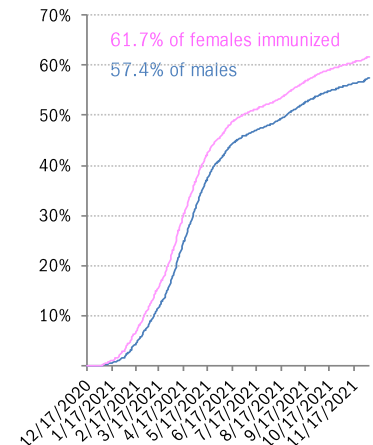
As of Dec 6

ME	82.8%
	72.9%

WA	73.4%	65.5%	ID	51.1%	45.5%	MT	60.3%	52.2%	ND	58.5%	49.2%	MN	69.7%	63.4%	IL	69.9%	62.3%	MI	61.8%	55.3%	NY	79.4%	69.2%	VT	86.5%	74.0%	NH	89.6%	65.2%			
OR	72.1%	64.8%	NV	67.1%	55.0%	WY	54.2%	46.0%	SD	67.9%	55.2%	IA	63.0%	57.2%	IN	56.3%	51.0%	OH	58.9%	53.7%	PA	82.8%	59.3%	NJ	80.1%	68.5%	MA	86.9%	72.2%			
CA	79.8%	64.0%	UT	65.1%	55.9%	CO	72.2%	64.1%	NE	64.5%	57.9%	MO	60.5%	51.7%	KY	60.9%	52.8%	WV	69.3%	49.2%	VA	76.4%	65.9%	MD	77.7%	68.4%	CT	85.0%	72.8%	RI	84.3%	73.7%
			AZ	65.1%	55.3%	NM	77.7%	64.3%	KS	66.9%	55.3%	AR	61.1%	49.8%	TN	57.2%	49.8%	NC	71.5%	54.7%	SC	60.9%	51.9%	DC	83.0%	65.3%	DE	73.5%	61.9%			
			OK	63.6%	52.1%	LA	56.0%	49.2%	MS	54.1%	47.1%	AL	57.1%	46.5%	GA	59.4%	49.4%				FL	72.5%	62.0%	PR	85.8%	74.6%						
			TX	64.7%	55.3%																											

HI	82.8%
	61.7%

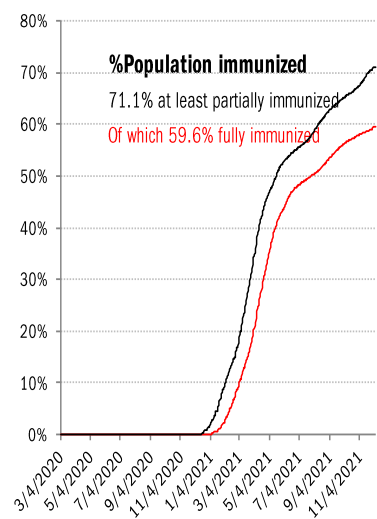
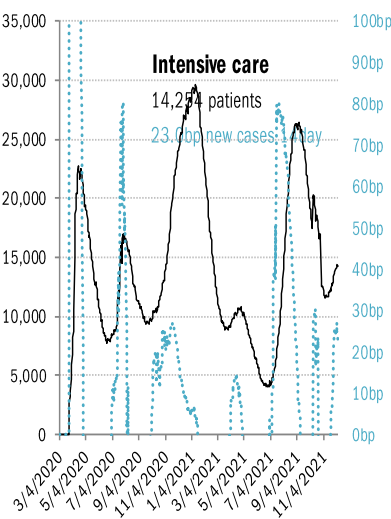
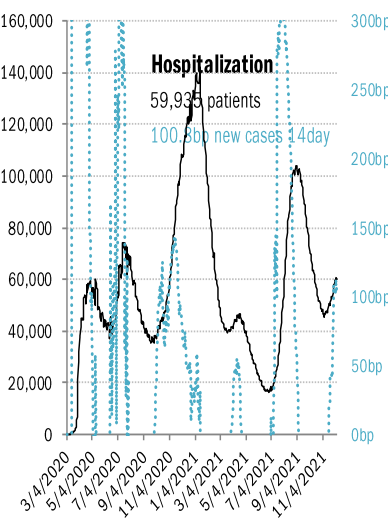
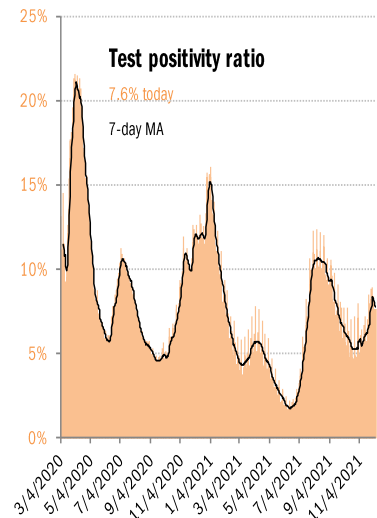
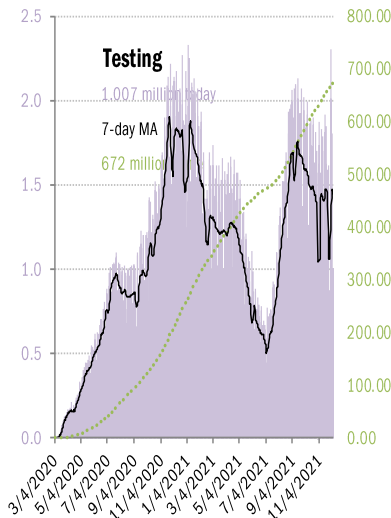
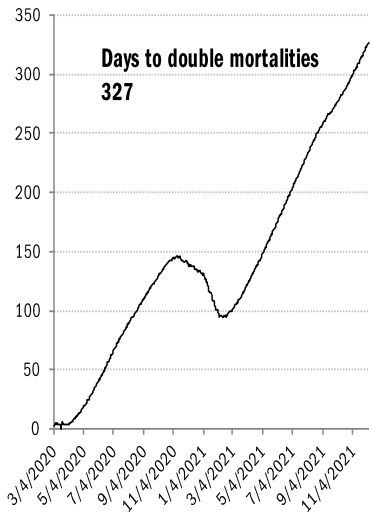
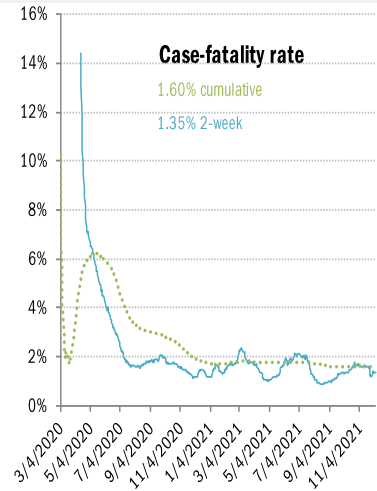
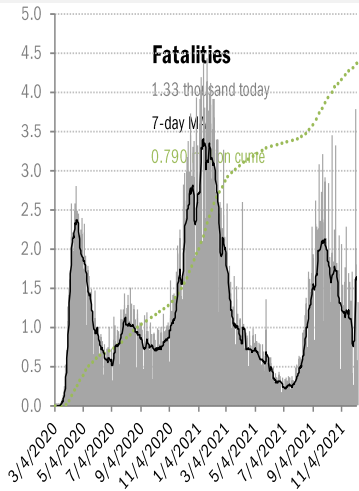
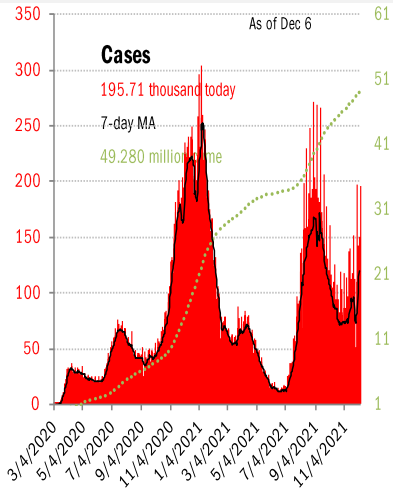
## The demographics of US vaccination



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

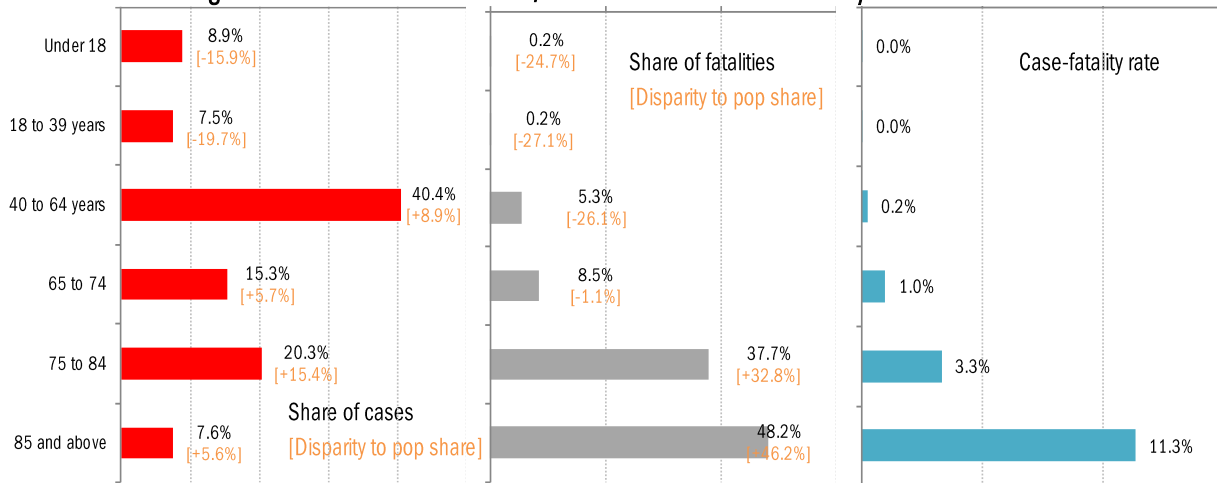
# US deep-dive

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

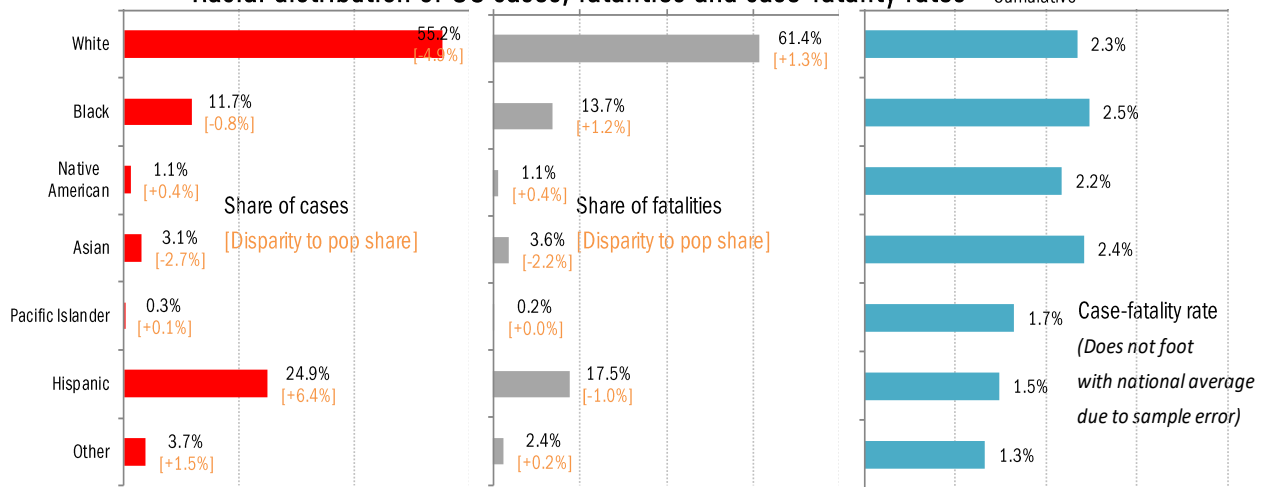


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

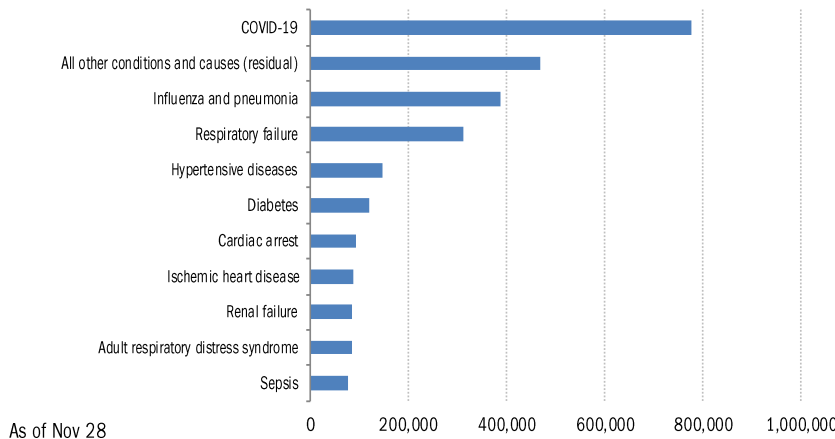


Racial distribution of US cases, fatalities and case-fatality rates



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

### [Omicron: Keep Calm and Carry On](#)

Marc Siegel  
*Wall Street Journal*  
December 6, 2021

### [South Africa Fuels Omicron Hope as Hospitalizations in Check](#)

Michael Cohen and Janice Kew  
*Bloomberg*  
December 6, 2021

### [Omicron Is Fast Moving, but Perhaps Less Severe, Early Reports Suggest](#)

Lynsey Chutel, Richard Pérez-Peña and Emily Anthes  
*New York Times*  
December 6, 2021

### [A note on sampling biases in the Bangladesh mask trial](#)

Maria Chikina et al.  
*Cornell University*  
December 2, 2021

### [Biden goes out to eat maskless in DC despite cold, with Kennedy Center event on Sunday](#)

Kelly Laco  
*Fox News*  
December 4, 2021

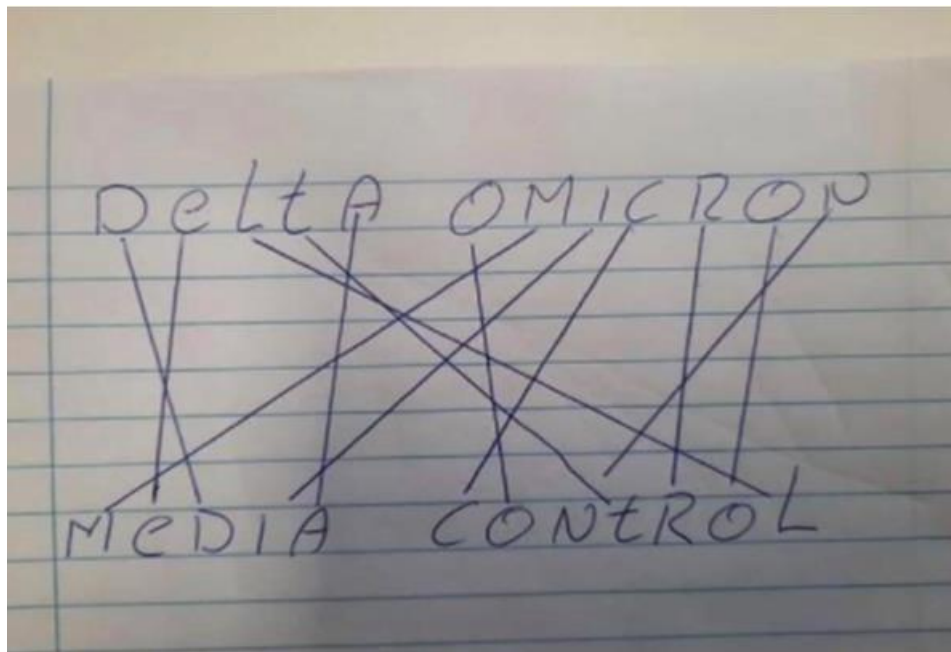
### [Broad Institute researcher wants to fade into obscurity, but first she hopes her COVID book is a bestseller](#)

Jonathan Saltzman  
*Boston Globe*  
November 14, 2021

### [Initial Hospital Data in Omicron Epicenter Shows Milder Disease](#)

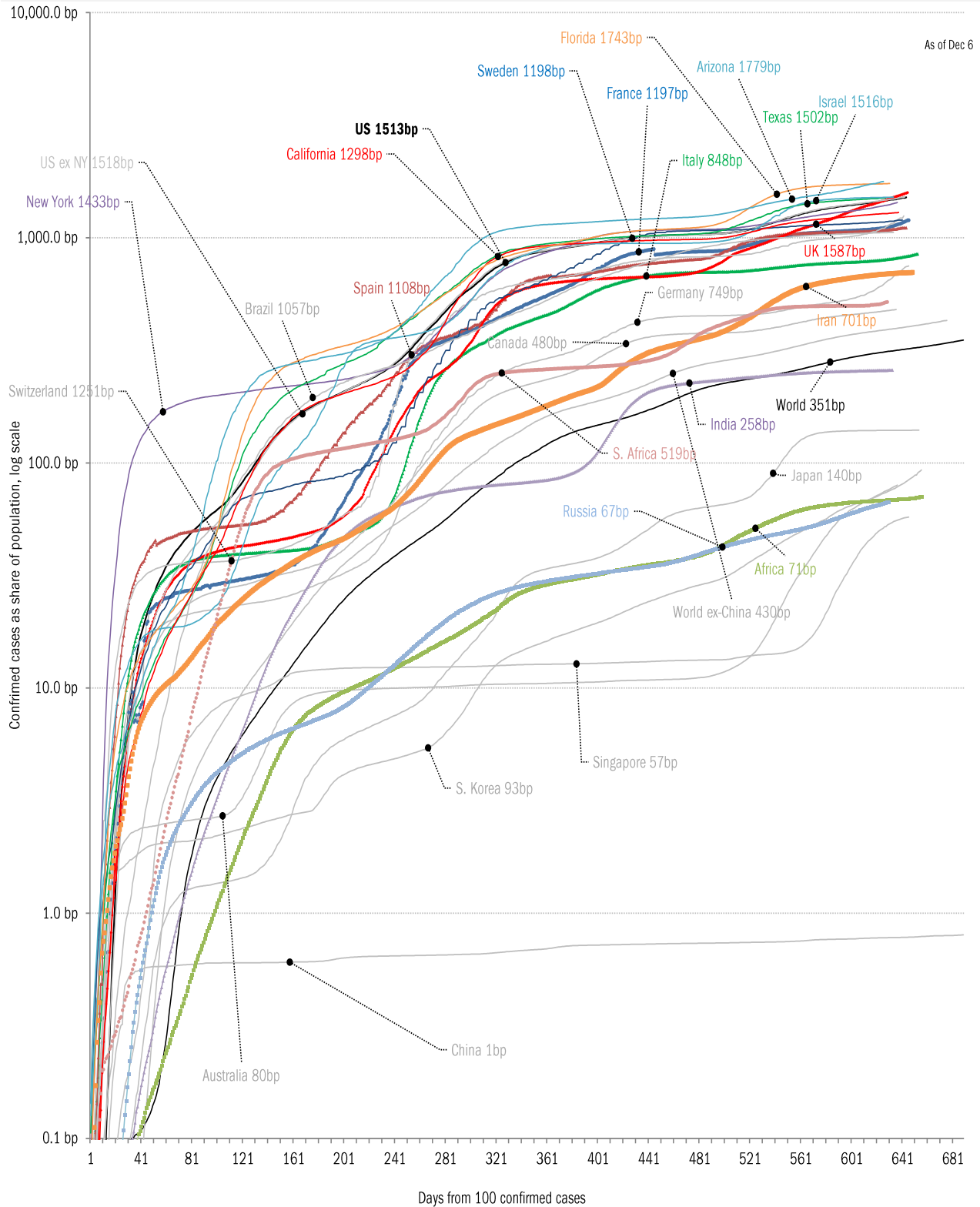
Janice Kew  
*Bloomberg*  
December 5, 2021

## Meme of the day



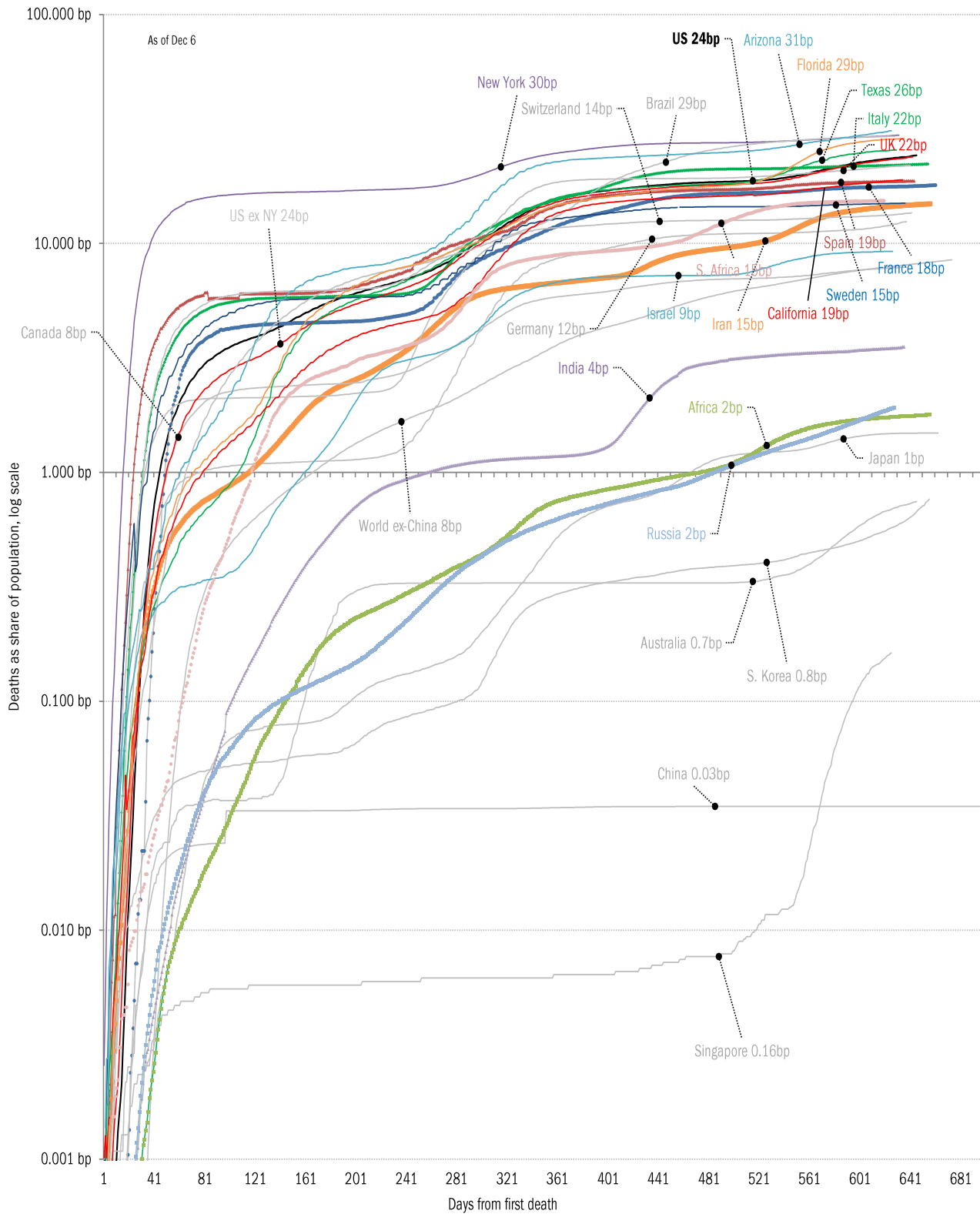
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



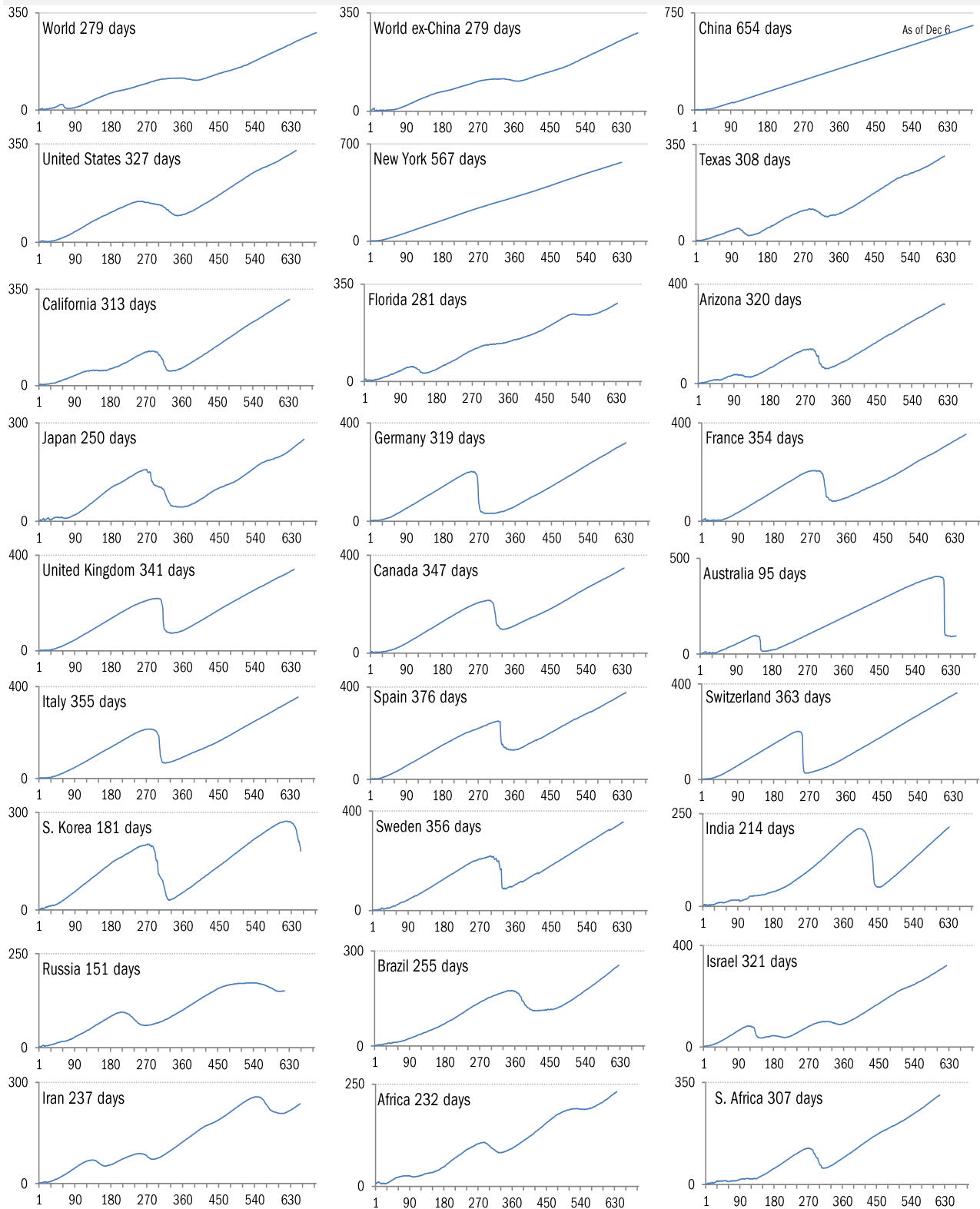
Source: [Johns Hopkins](#), TrendMacro calculations



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

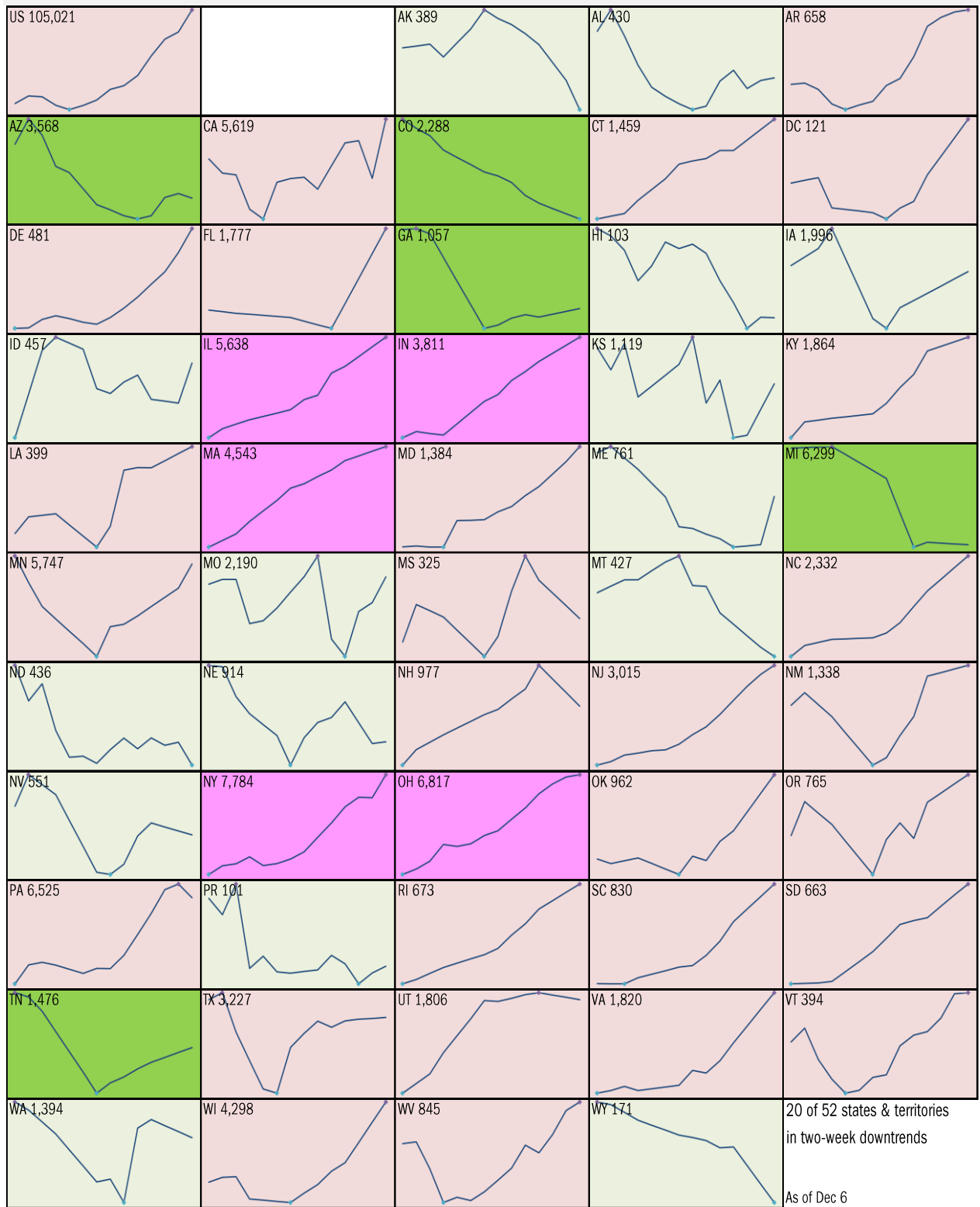
Vertical: days to double deaths Horizontal: days from first death

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

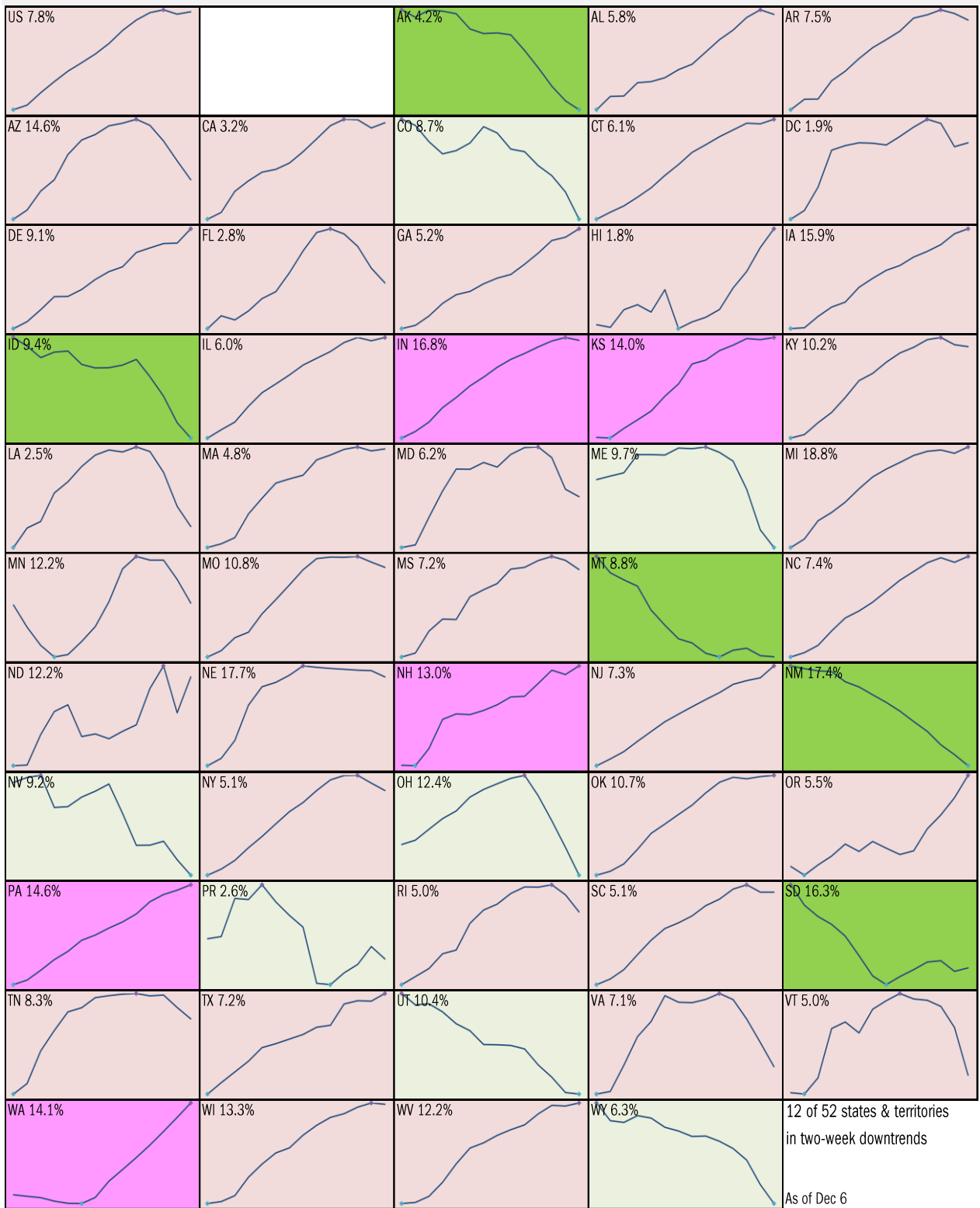


Source: [Johns Hopkins](#), TrendMacro calculations

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

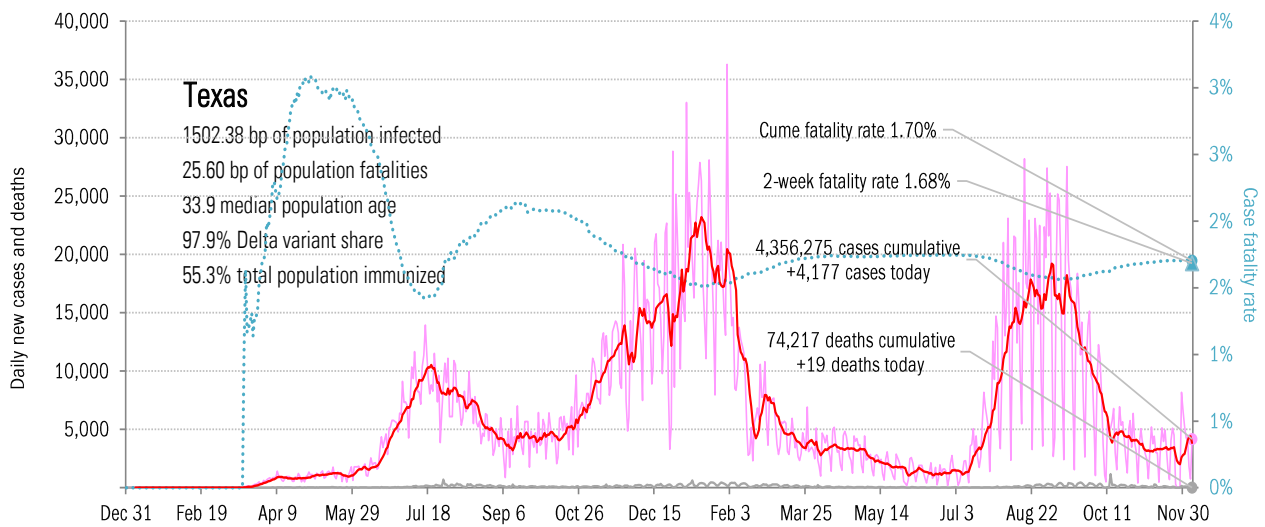
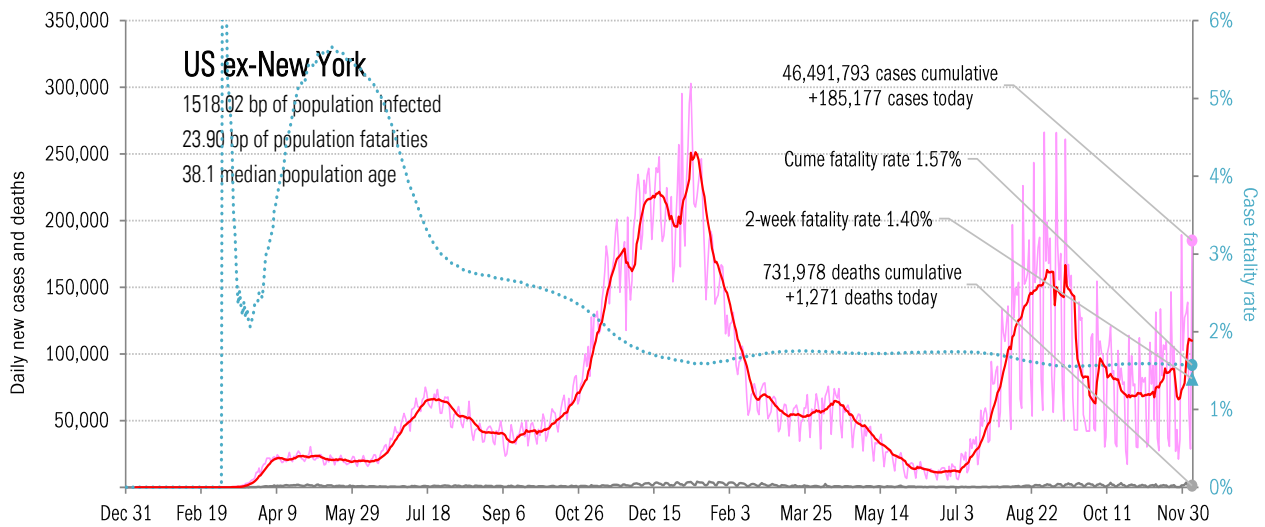
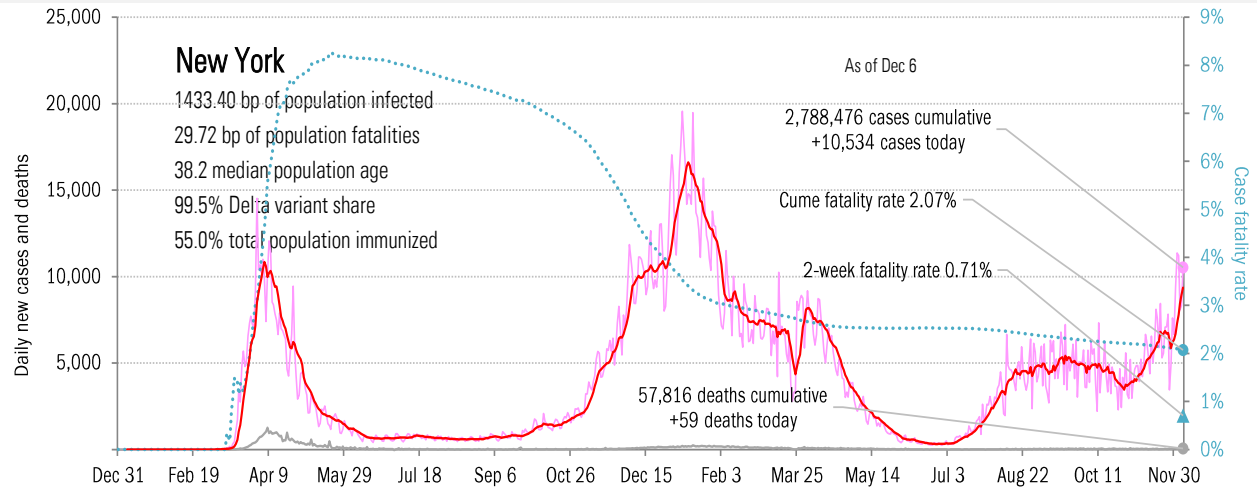
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

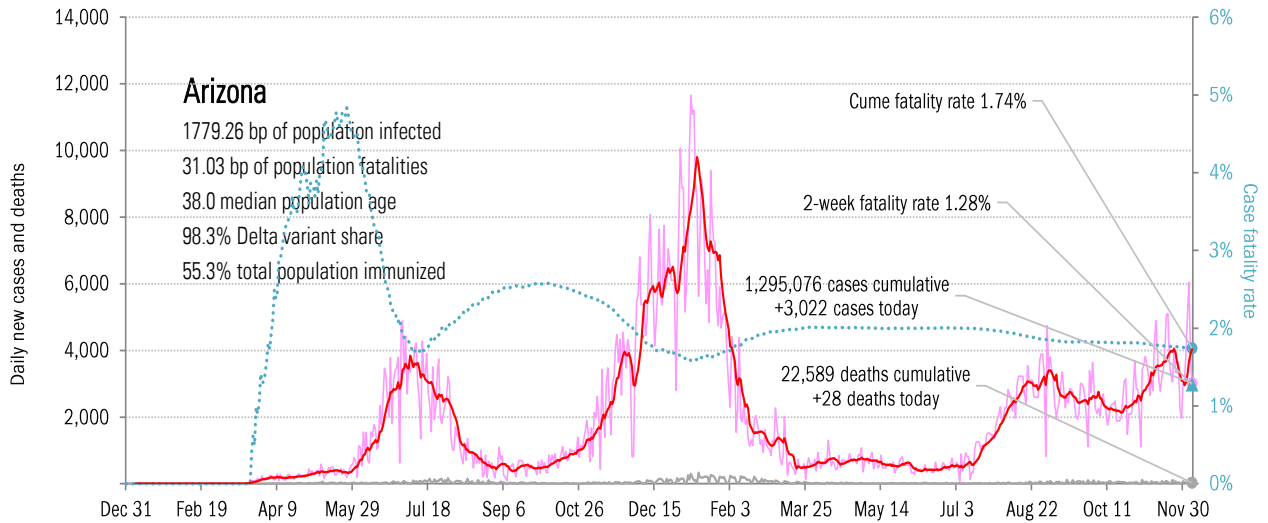
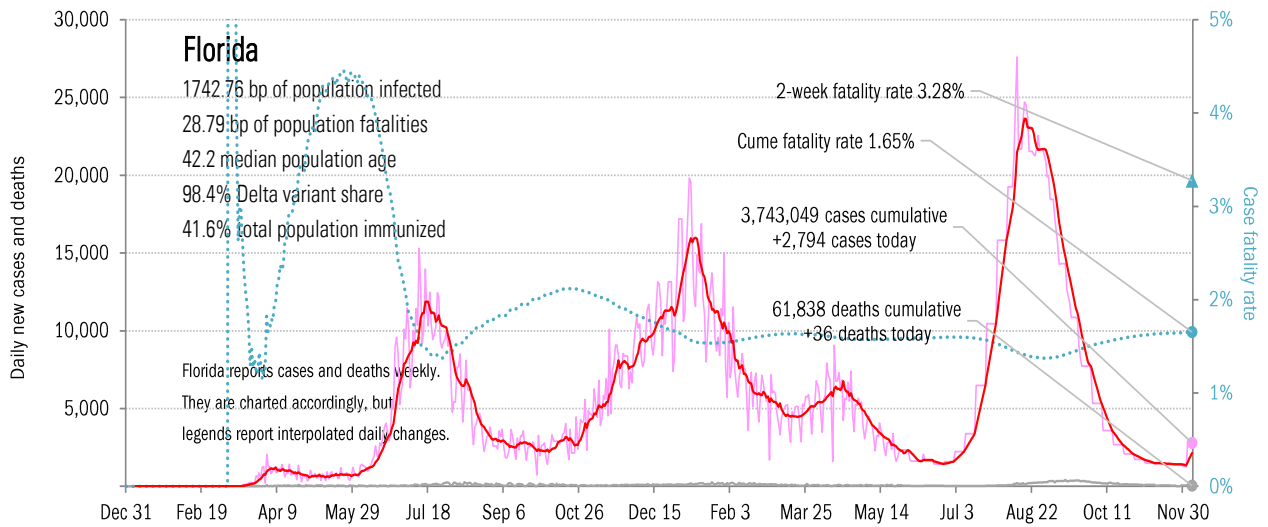
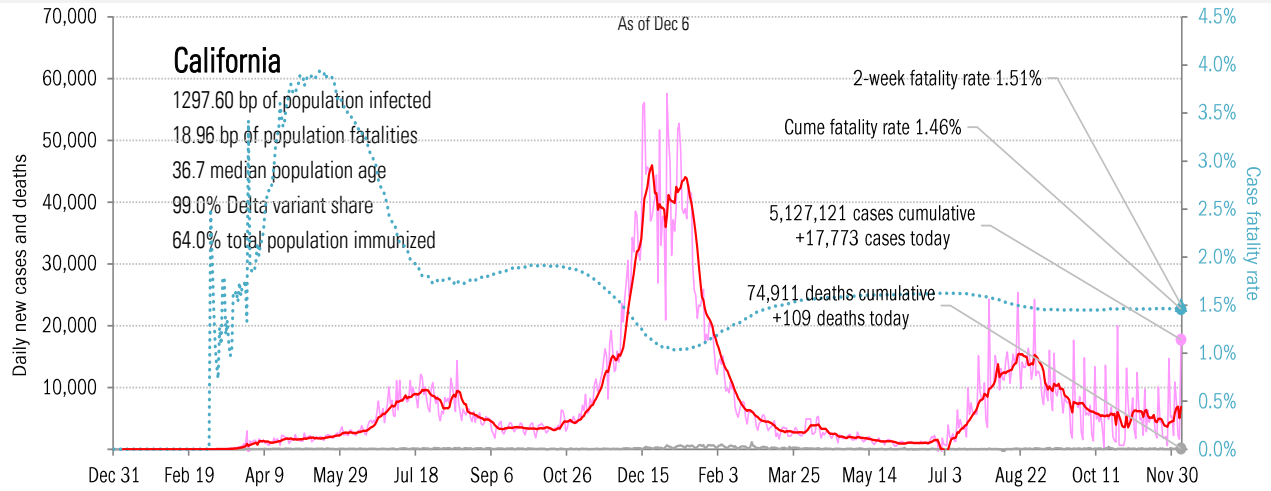
Cases: 7-day average and daily Deaths: Daily



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

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

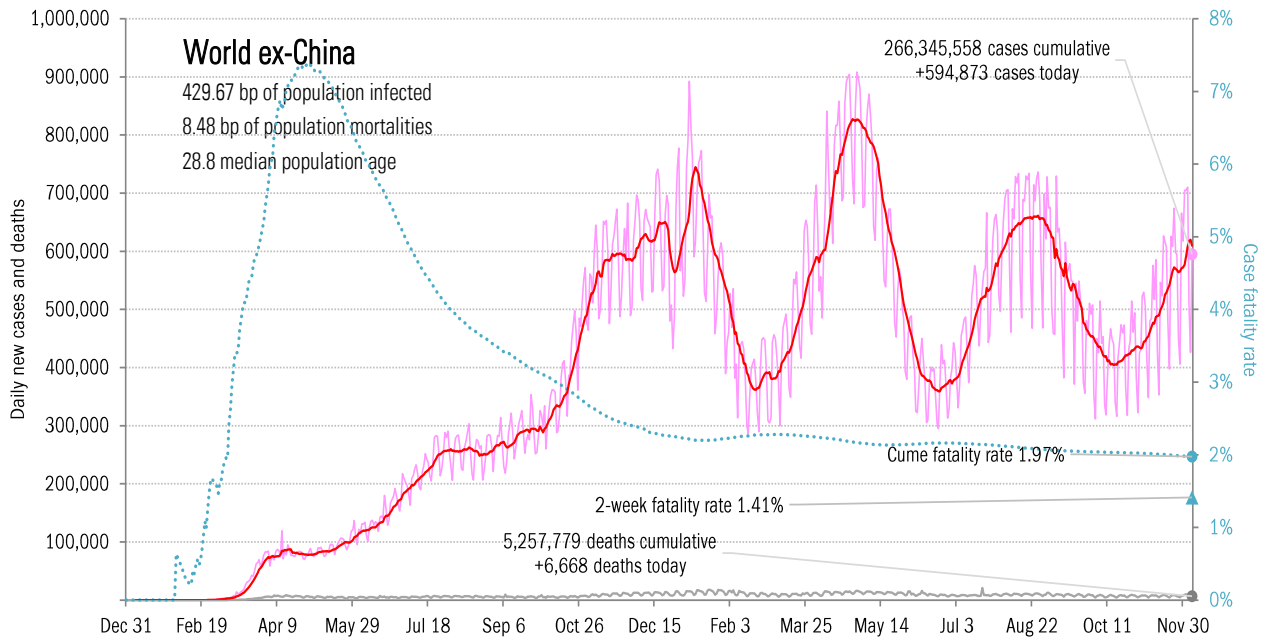
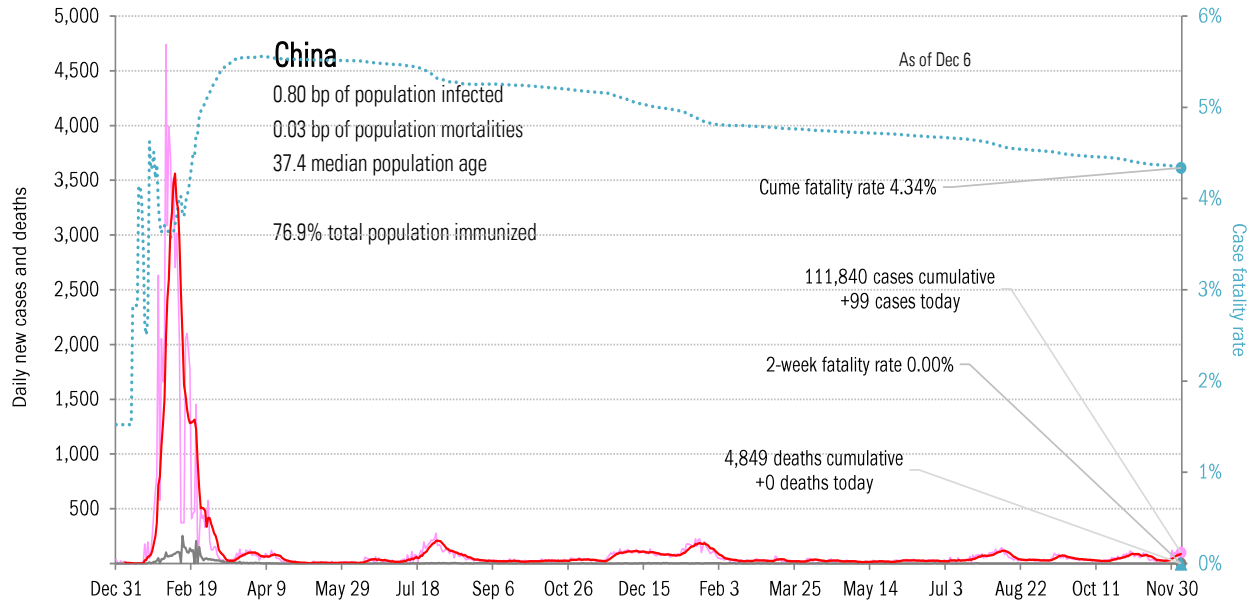
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

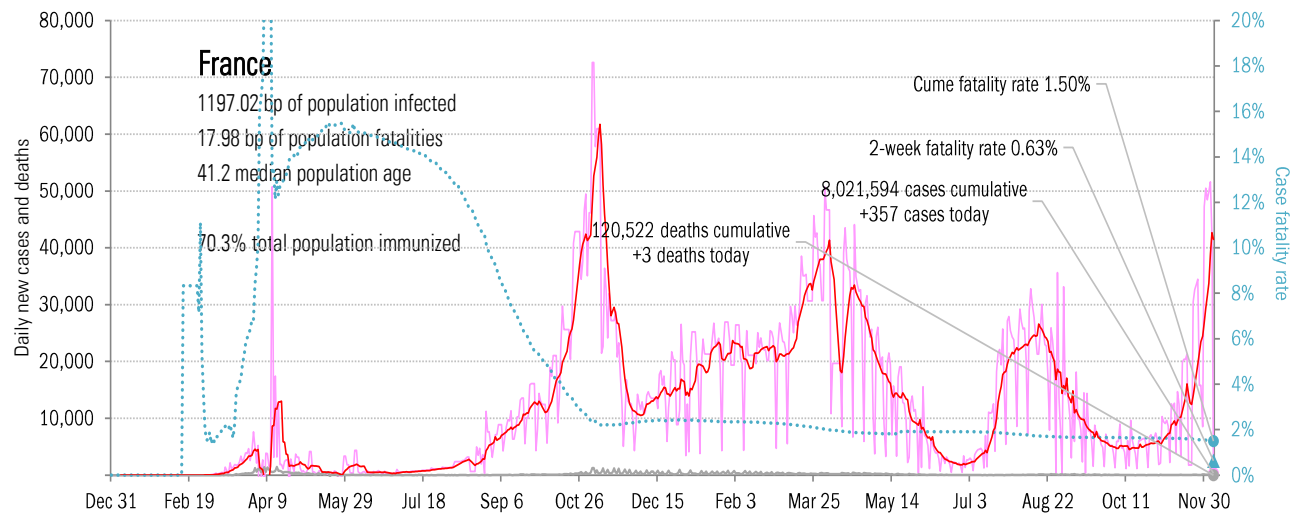
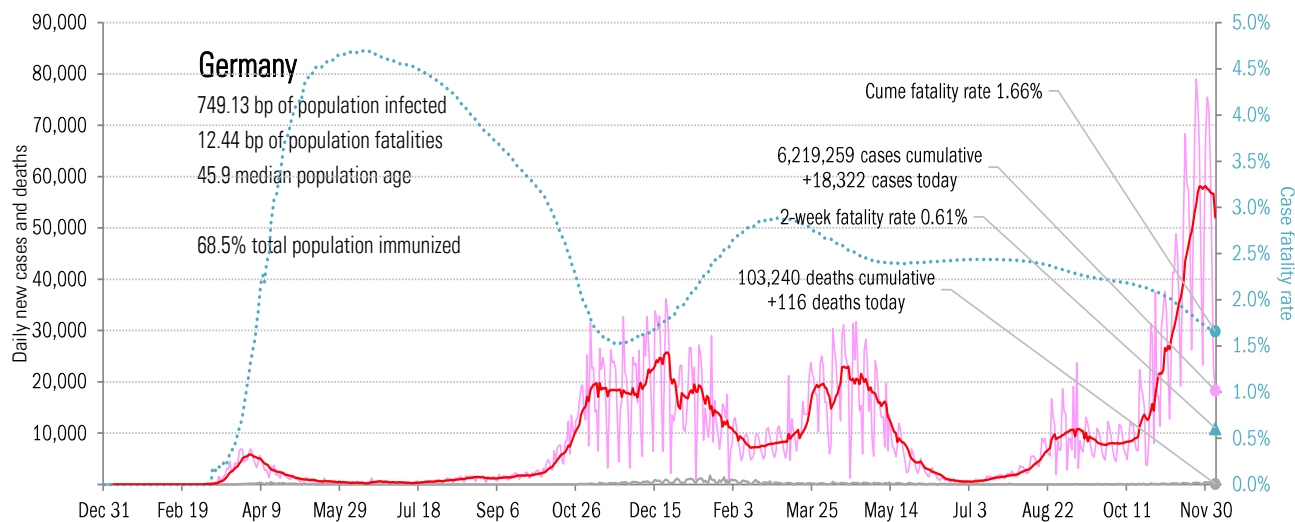
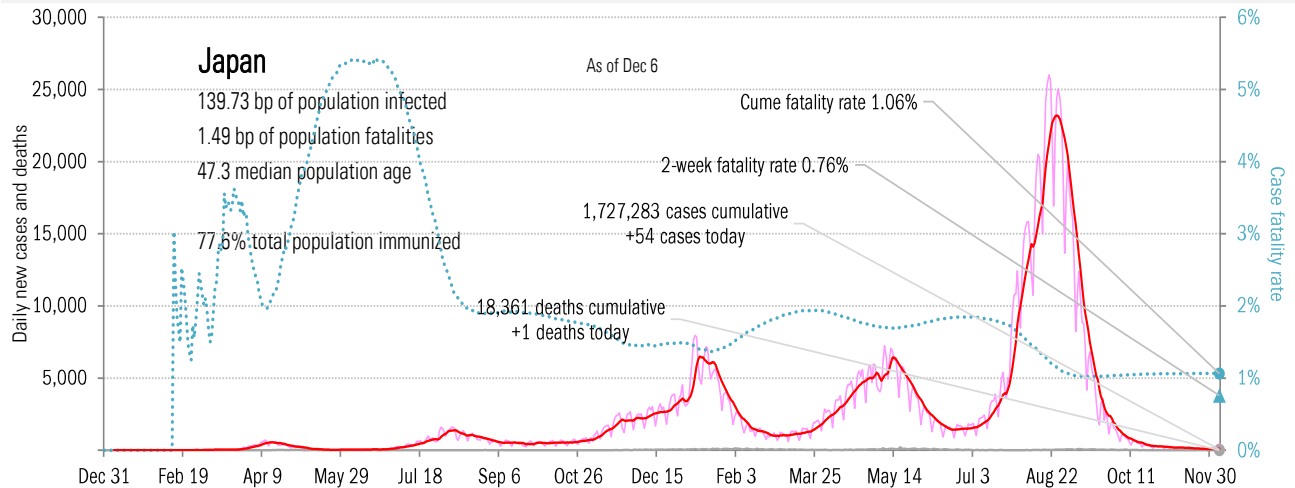
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

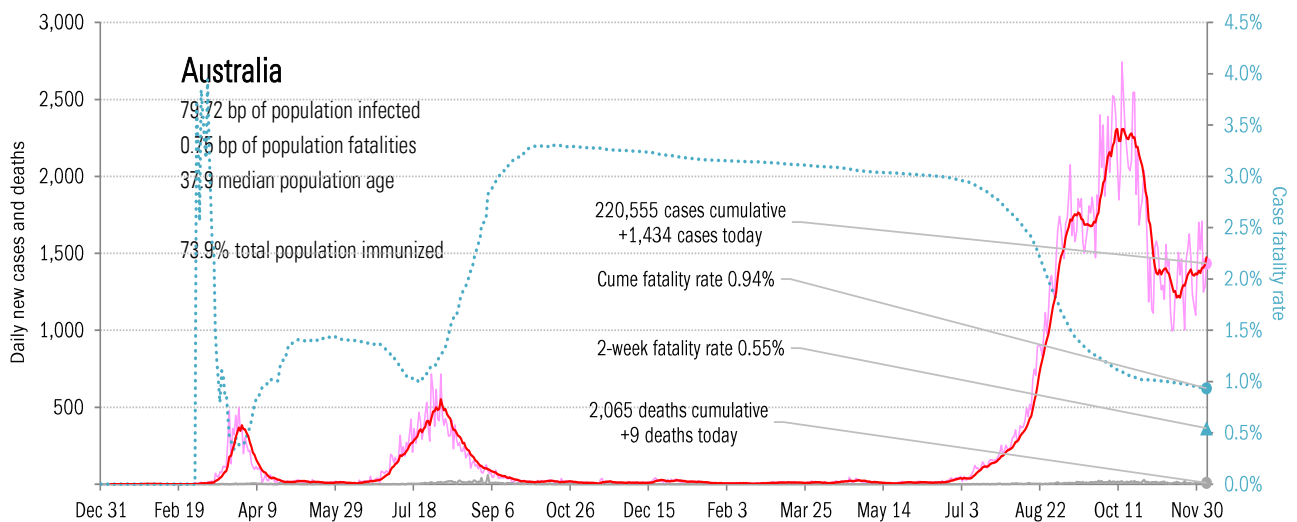
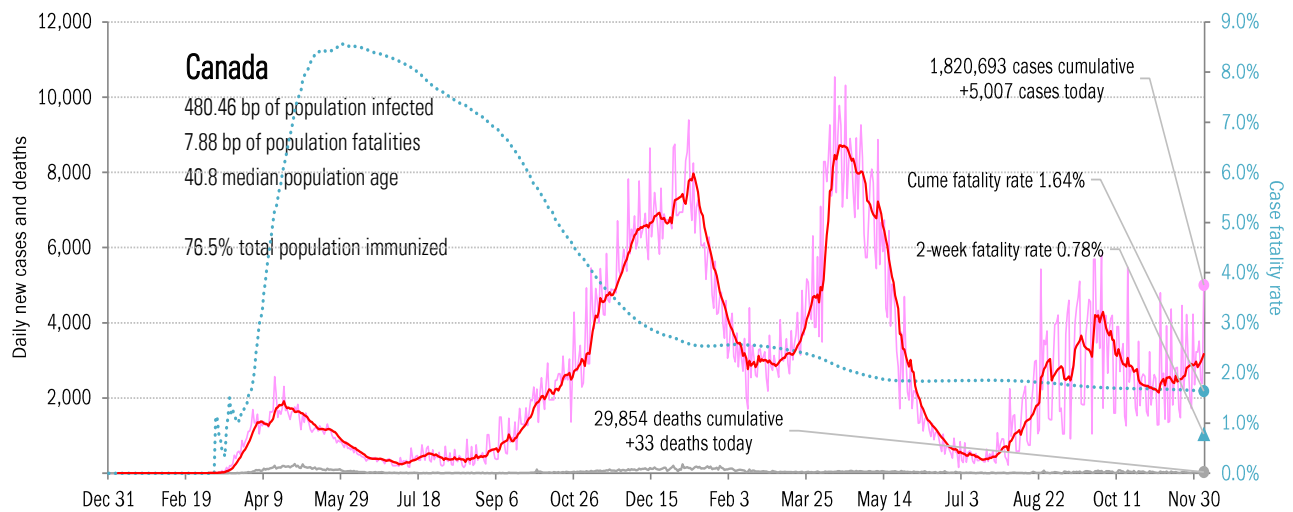
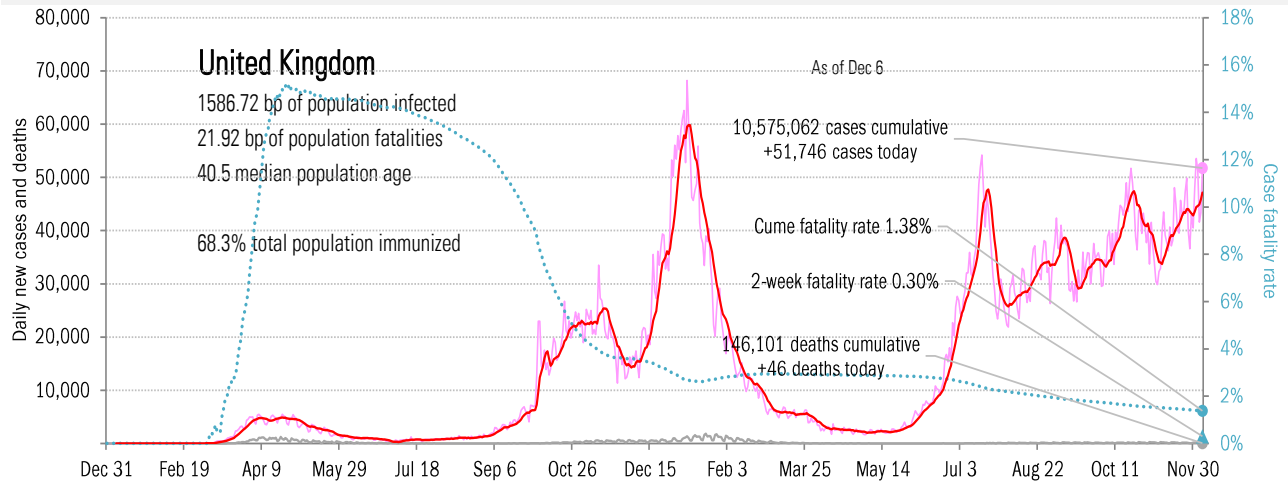
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

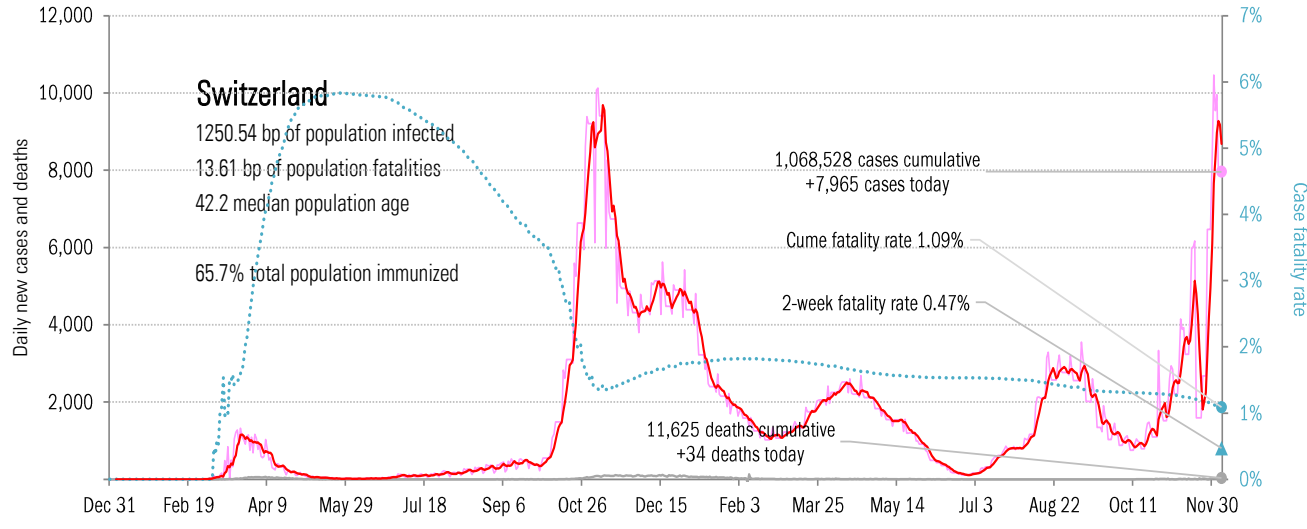
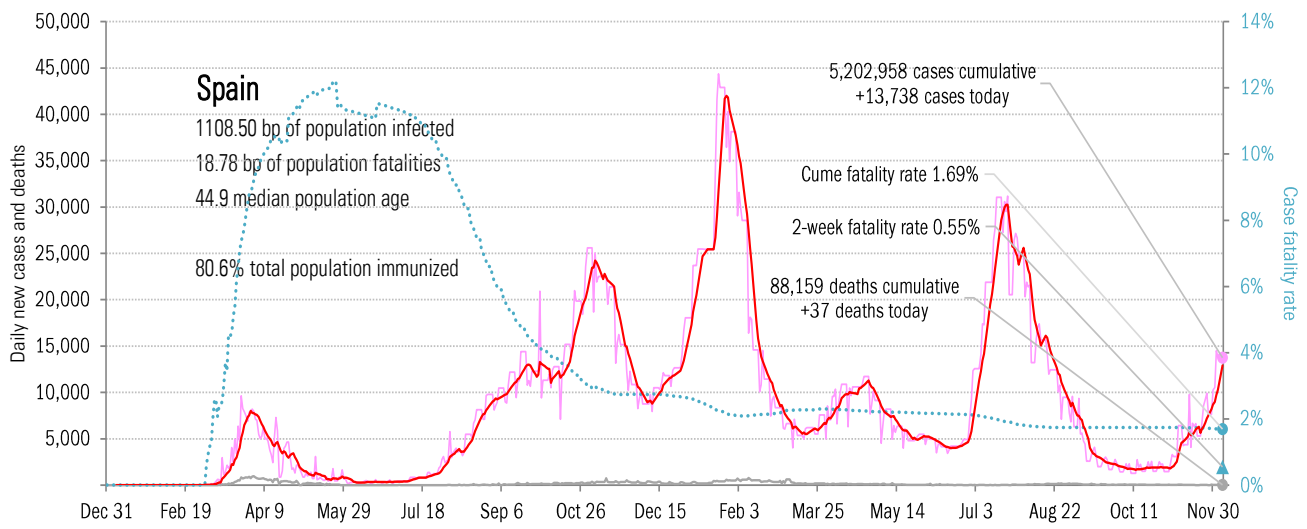
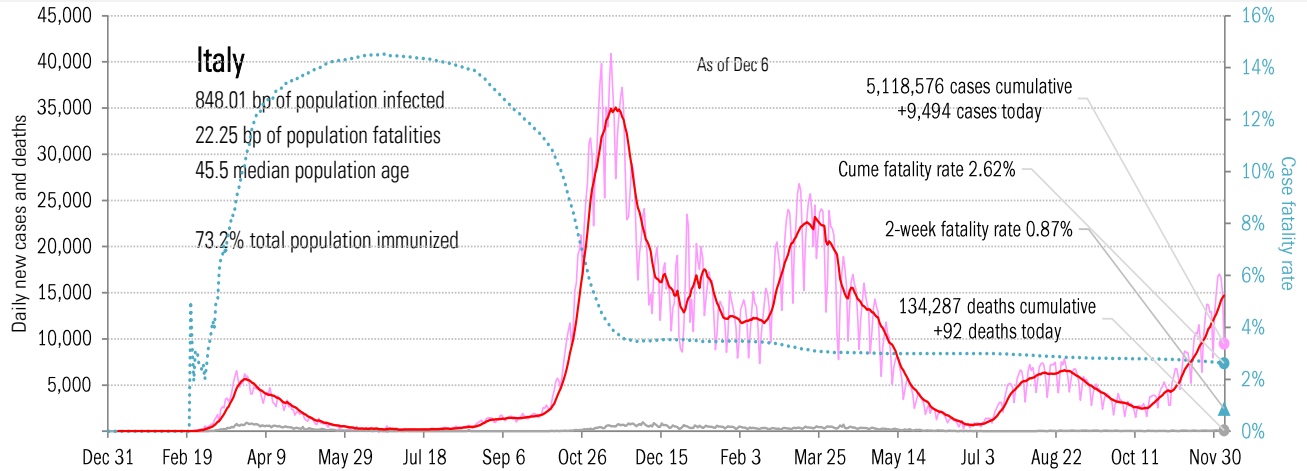


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

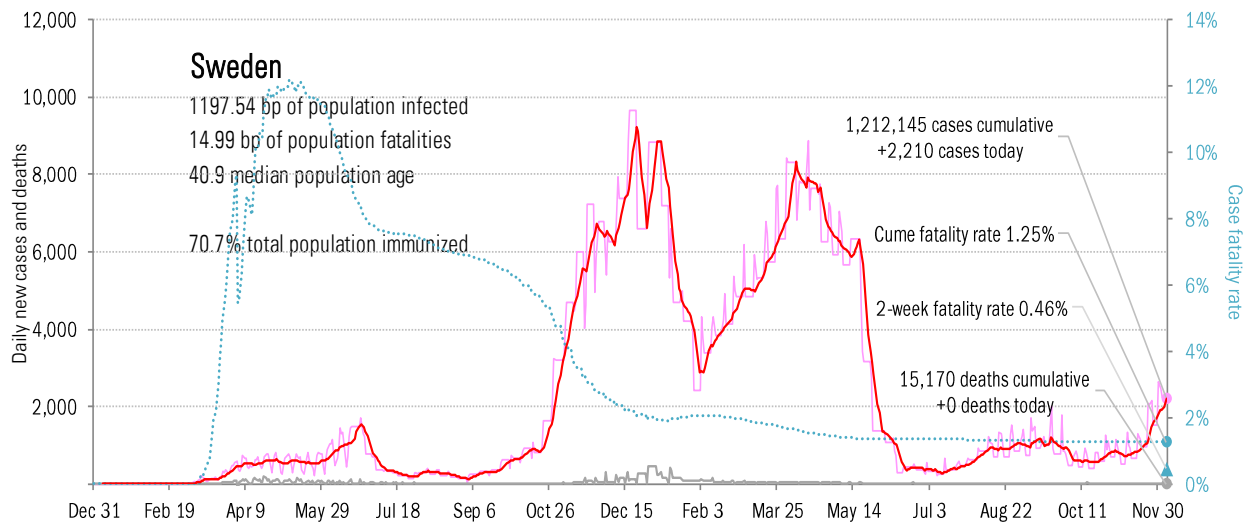
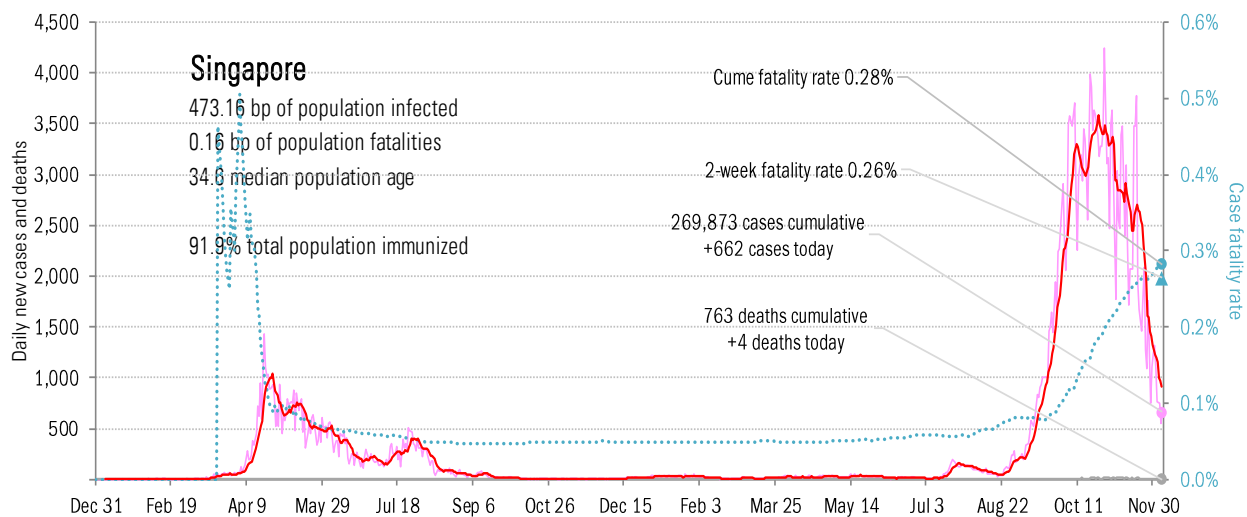
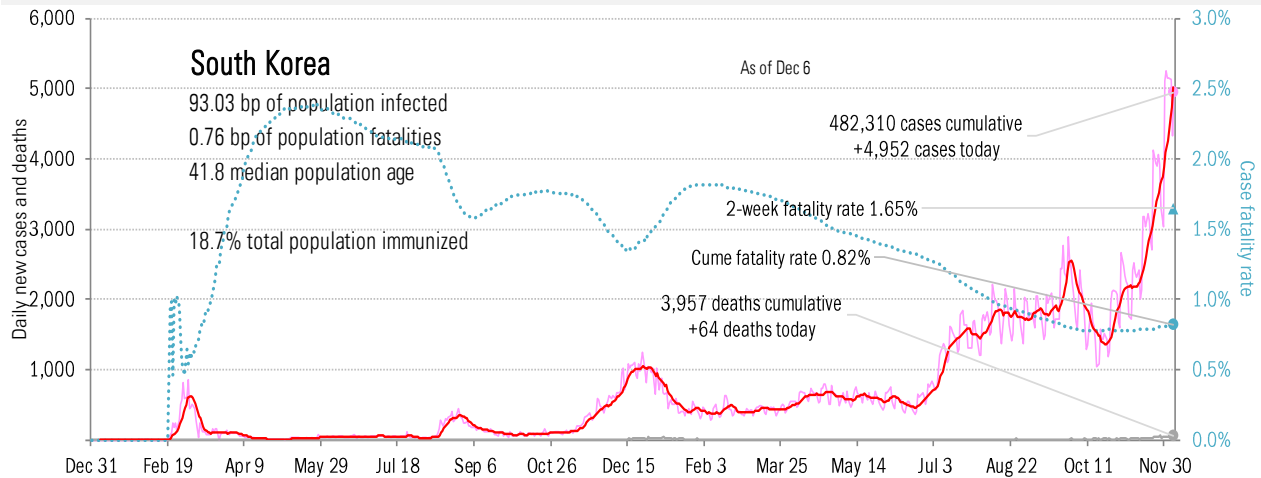
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

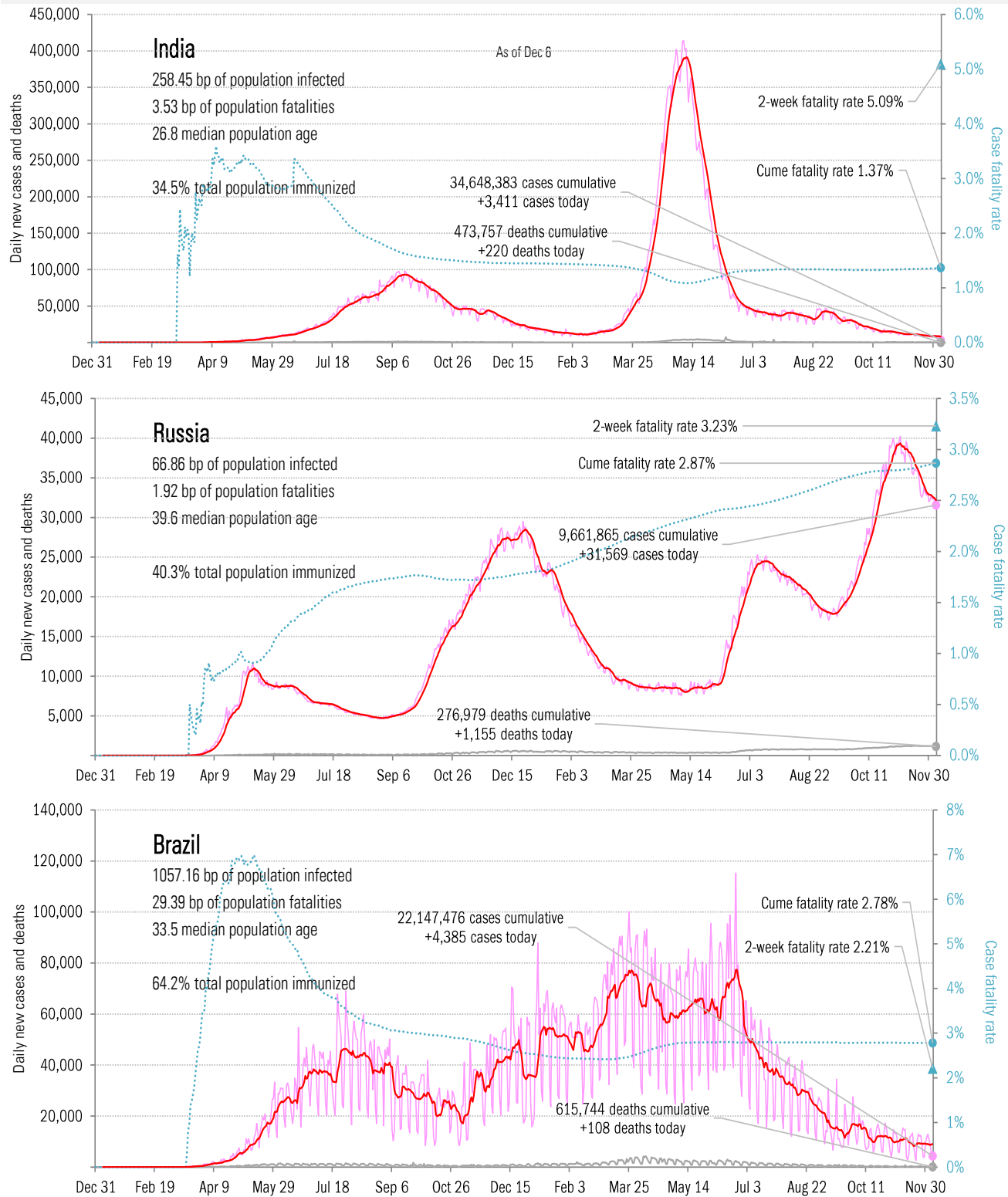
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

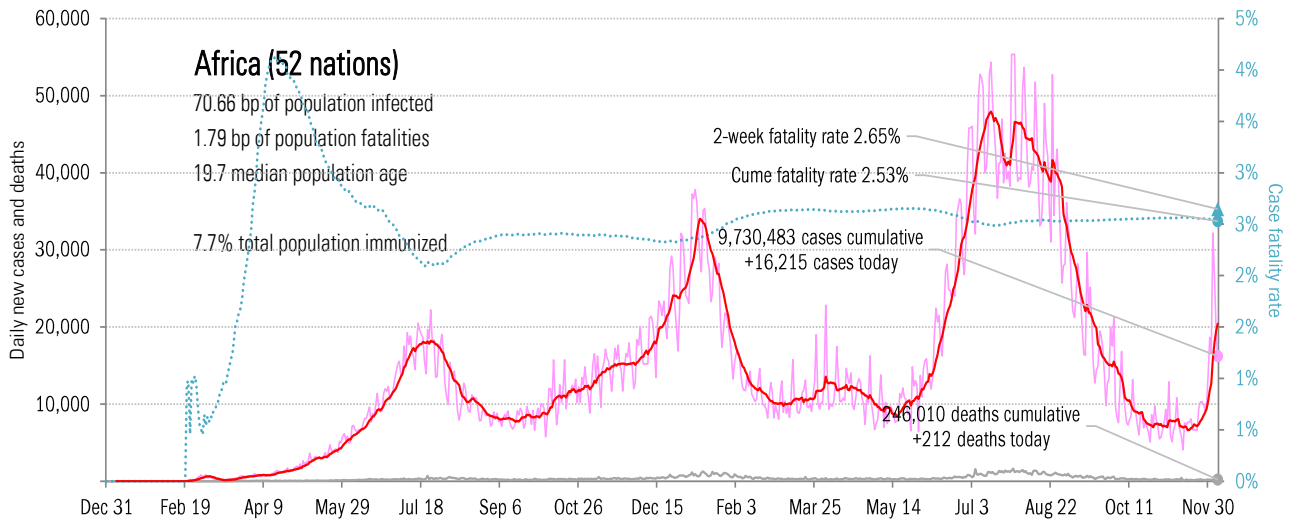
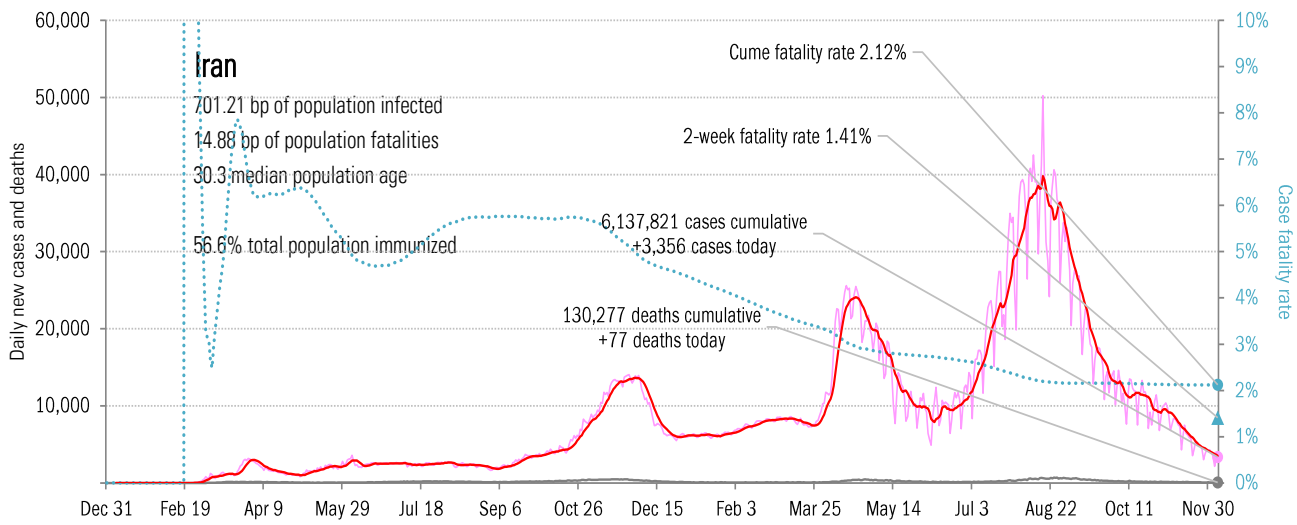
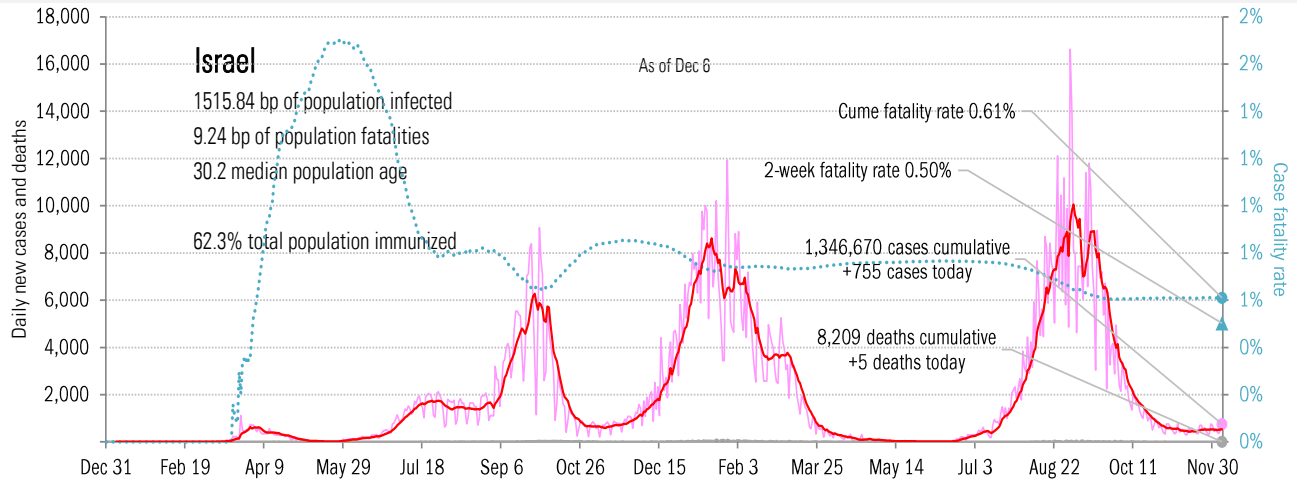
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

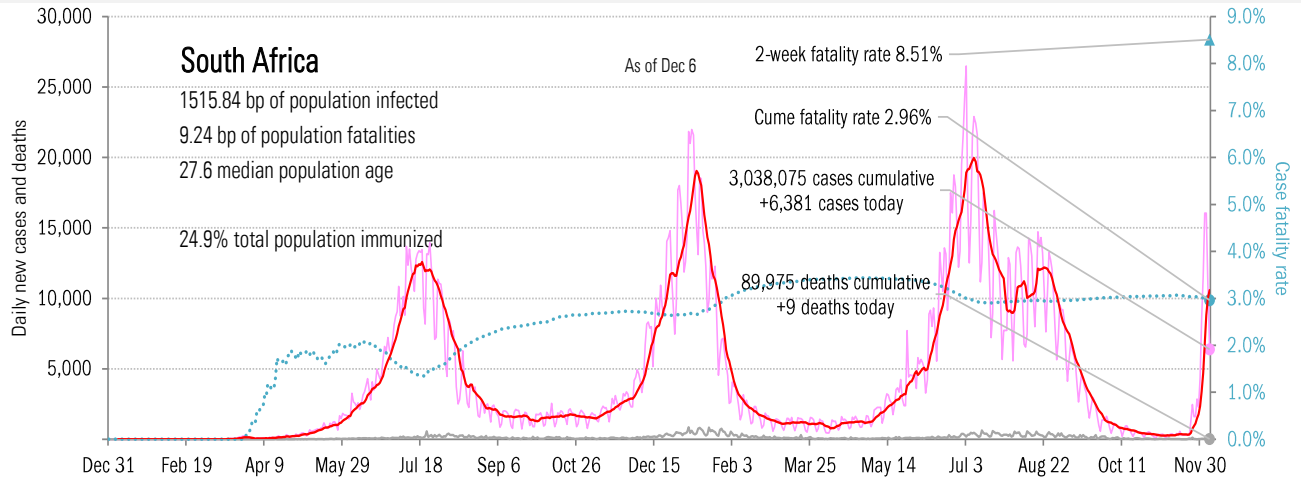
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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