

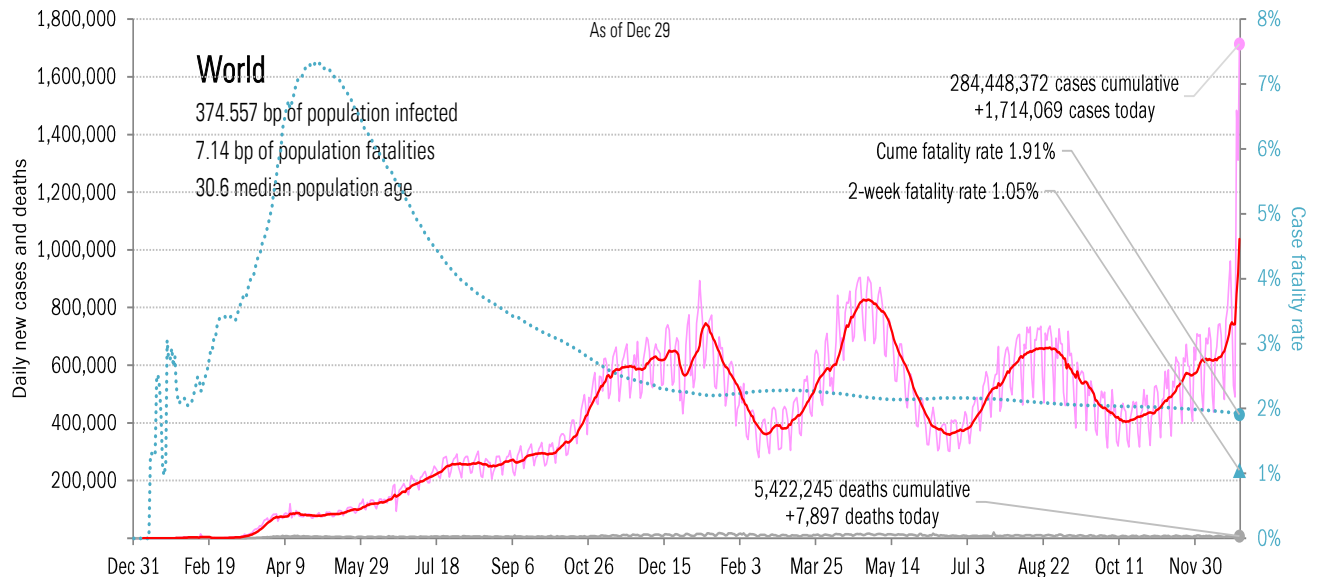
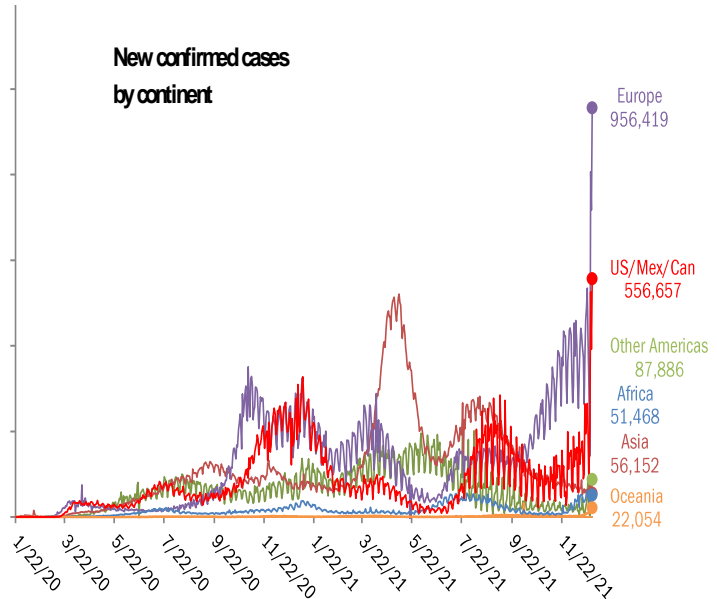
## Data Insights: Covid-2019 Monitor

Thursday, December 30, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	472,700	United States	2,233
United Kingdom	223,745	Russia	903
France	208,208	Poland	793
Spain	100,760	Germany	613
Italy	98,016	Ukraine	336
Canada	79,531	India	268
Germany	69,956	Vietnam	245
Argentina	42,032	France	184
Greece	28,828	Bulgaria	162
Portugal	26,867	Italy	136
<b>1,350,643</b>		<b>5,873</b>	
World	1,714,069	World	7,897
Top ten	79%	Top ten	74%



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

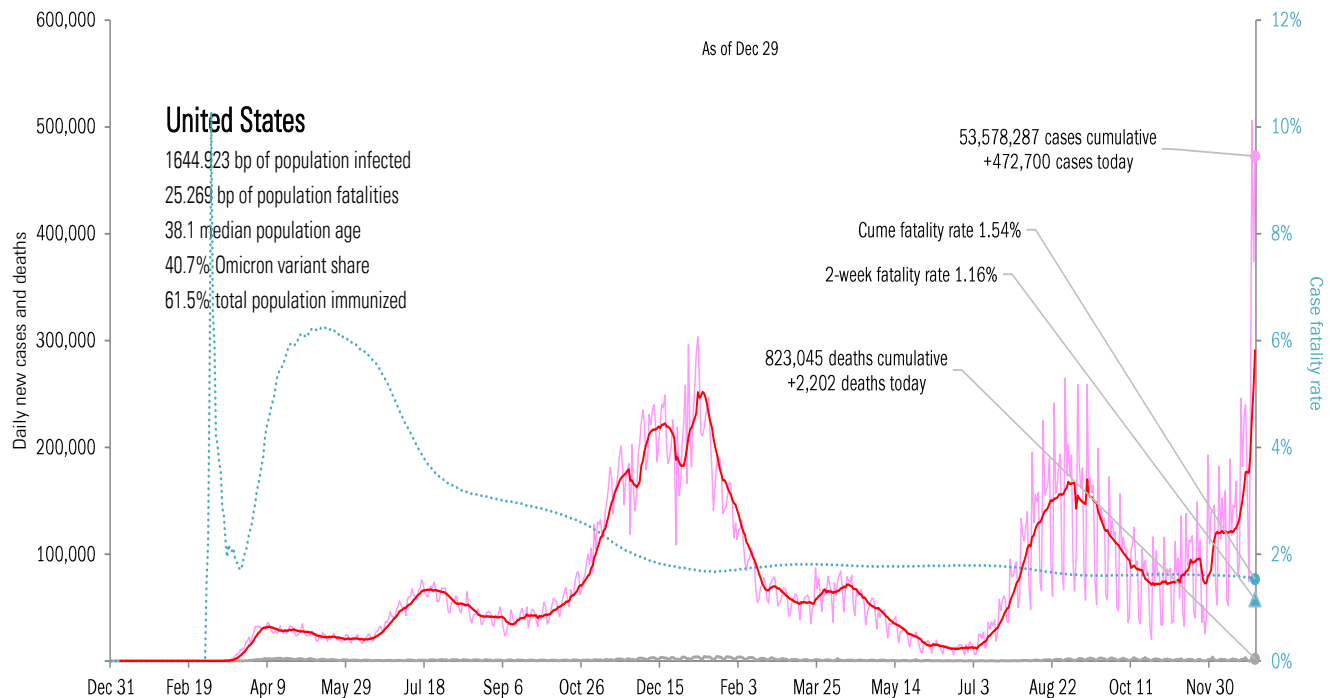
## The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use									
NY	62,201		MI	373		FL	569		CA	5,407,310		CA	76,336		TX	398,657		RI	87%	KY	93%								
FL	30,356		PA	304		NY	438		TX	4,560,984		TX	75,639		FL	333,678		WA	84%	RI	93%								
CA	30,065		NY	167		TX	364		FL	3,930,751		FL	62,543		CA	333,020		MA	83%	IN	90%								
MI	29,279		AZ	162		CA	332		NY	3,330,403		NY	59,336		NY	189,737		MN	83%	NH	89%								
NJ	26,473		CA	81		NJ	232		IL	2,119,162		PA	36,504		GA	169,123		IN	83%	NM	89%								
IL	21,098		TX	78		GA	228		PA	1,996,240		GA	31,354		CH	153,220		GA	82%	MO	87%								
CH	20,320		MN	69		IL	182		CH	1,975,723		IL	30,167		PA	141,884		PA	82%	CK	87%								
GA	19,124		TN	69		PA	156		GA	1,792,021		MI	29,020		IL	124,640		KY	81%	VW	87%								
PA	16,730		SC	60		LA	144		MI	1,710,325		NJ	28,967		KY	119,829		AZ	81%	AL	86%								
MA	16,165		IA	59		MD	127		NC	1,648,922		CH	28,780		MI	116,501		MI	81%	TX	85%								
271,811			1,422			2,772			28,471,841			458,646			2,080,289														
All states			472,700			2,233			3,835			All states			53,578,287			823,045			3,759,823			All states		70%		67%	
Top ten			58%			64%			72%			Top ten			53%			56%			55%			Median		74%		78%	

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NC	-22,790	MD	-386	NC	-59	MP	+40 bp
CA	-20,073	VA	-148	MN	-25	AR	+10 bp
MN	-4,654	MO	-129	MA	-15	DC	+10 bp
RI	-3,564	FL	-118	CH	-13	DE	+10 bp
CK	-1,678	IN	-111	AZ	-11	FL	+10 bp

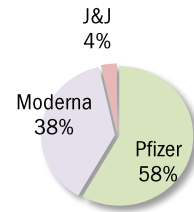


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	519,536,352	+1.319 million	US	61.5%	73.3%
Boosters	69,008,315	+0.722 million	UK	69.4%	75.8%
	<b>One dose</b>	<b>% Pop</b>	<b>Immune</b>	<b>% pop</b>	<b>New immune today</b>
Total population	249,163,721	75%	210,774,010	63%	+0.219 million
Age 12 to 17	15,151,082	64%	12,751,009	54%	+0.017 million
Age 18 to 64	168,669,512	83%	143,405,443	70%	+0.108 million
Age 65 and over	57,672,071	100%	49,622,949	91%	+0.015 million

France	73.1%	78.1%
Spain	81.0%	84.8%
Germany	70.4%	73.4%
Italy	74.0%	79.9%
Australia	76.4%	79.2%
Israel	63.6%	70.4%
Canada	77.2%	83.3%
Japan	78.3%	79.7%
Africa	9.1%	14.0%
India	42.6%	60.5%
Brazil	67.0%	77.6%
China	83.6%	87.2%



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

Every American >18 immunized in **385 days** by Jan 17, 2023  
 74.8% of population >18 immunized  
 18.9% previously tested positive  
**93.6%** vs 60% adult herd immunity

Global data differs due to sources, timing

AK
65.0%
56.3%

WI
68.1%
61.9%

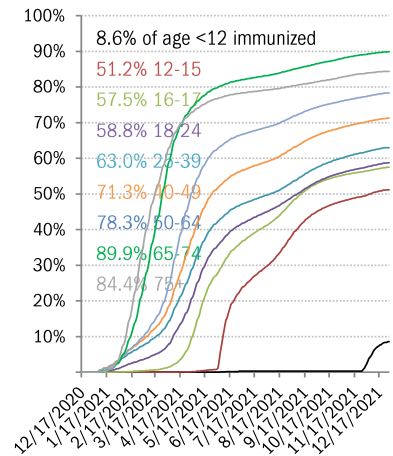
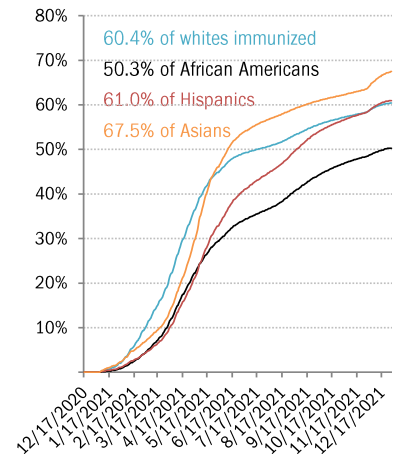
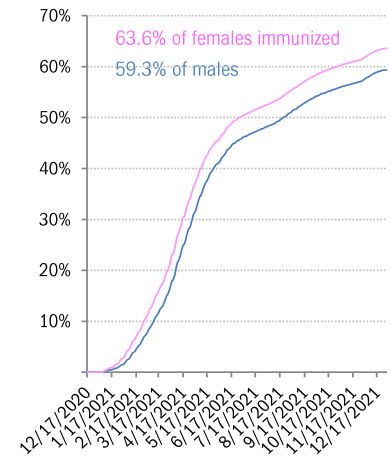
ME
85.7%
75.7%

As of Dec 29

WA: 75.6% / 67.9%	ID: 52.1% / 46.2%	MT: 62.0% / 54.0%	ND: 62.1% / 52.5%	MN: 71.3% / 65.4%	IL: 72.4% / 64.3%	MI: 63.4% / 56.7%	NY: 83.8% / 71.7%	VT: 89.2% / 77.3%	NH: 95.0% / 67.1%	
OR: 74.0% / 66.4%	NV: 69.4% / 56.4%	WY: 55.8% / 47.5%	SD: 70.8% / 57.0%	IA: 64.8% / 58.9%	IN: 57.8% / 51.9%	OH: 60.4% / 55.2%	PA: 78.0% / 63.7%	NJ: 83.5% / 70.4%	MA: 90.5% / 74.5%	
CA: 82.6% / 66.0%	UT: 67.3% / 58.7%	CO: 74.4% / 66.1%	NE: 66.3% / 59.8%	MO: 62.2% / 53.0%	KY: 62.4% / 54.2%	WV: 61.8% / 55.0%	VA: 78.9% / 67.9%	MD: 80.3% / 70.3%	CT: 88.4% / 74.5%	RI: 88.7% / 76.3%
	AZ: 67.2% / 56.9%	NM: 80.5% / 66.2%	KS: 69.2% / 56.9%	AR: 62.7% / 51.2%	TN: 58.6% / 51.3%	NC: 76.2% / 56.7%	SC: 62.7% / 53.1%	DC: 88.3% / 67.5%	DE: 76.5% / 64.1%	
			OK: 65.9% / 53.4%	LA: 57.3% / 50.2%	MS: 55.3% / 48.1%	AL: 58.4% / 47.6%	GA: 61.2% / 51.0%			
				TX: 66.7% / 56.9%				FL: 74.4% / 63.3%		PR: 88.7% / 76.8%

HI
87.8%
63.5%

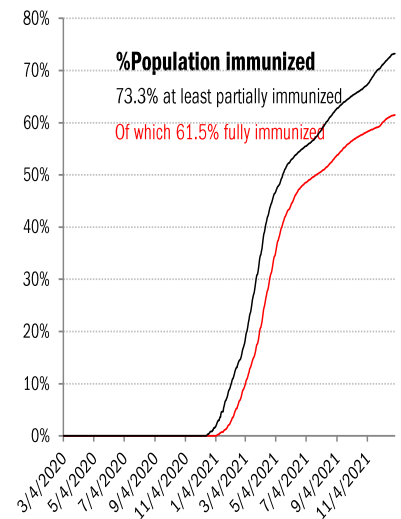
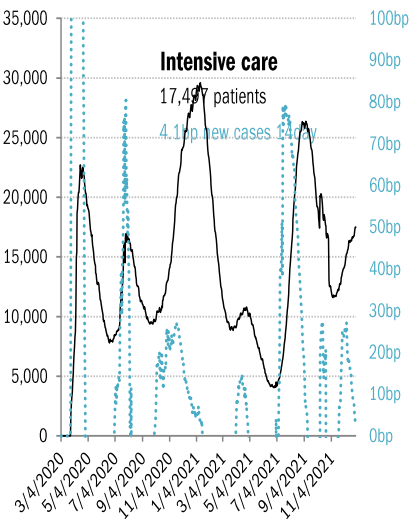
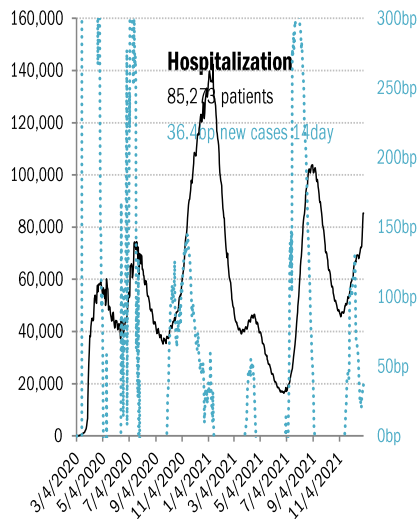
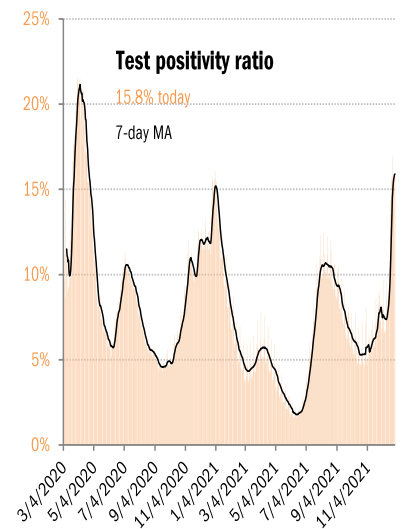
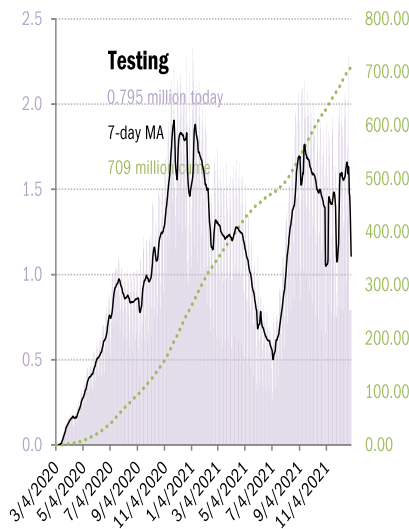
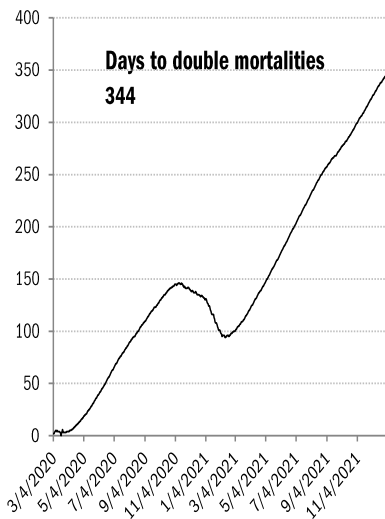
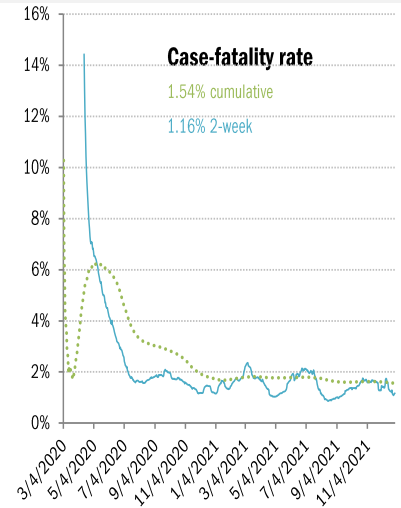
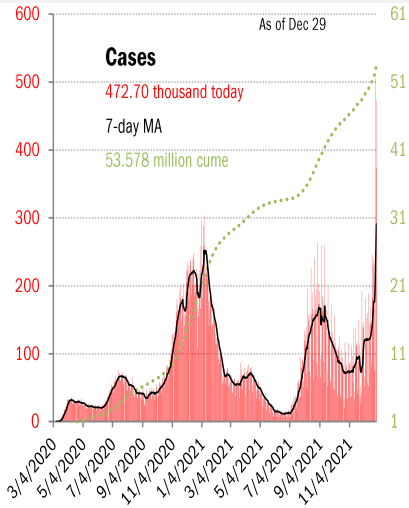
## The demographics of US vaccination



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

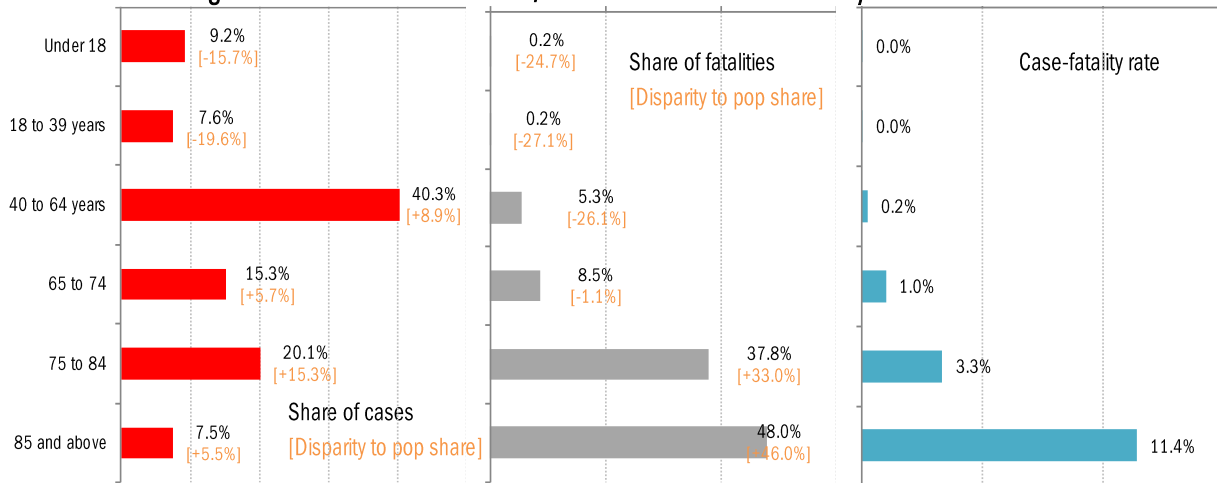
# US deep-dive

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

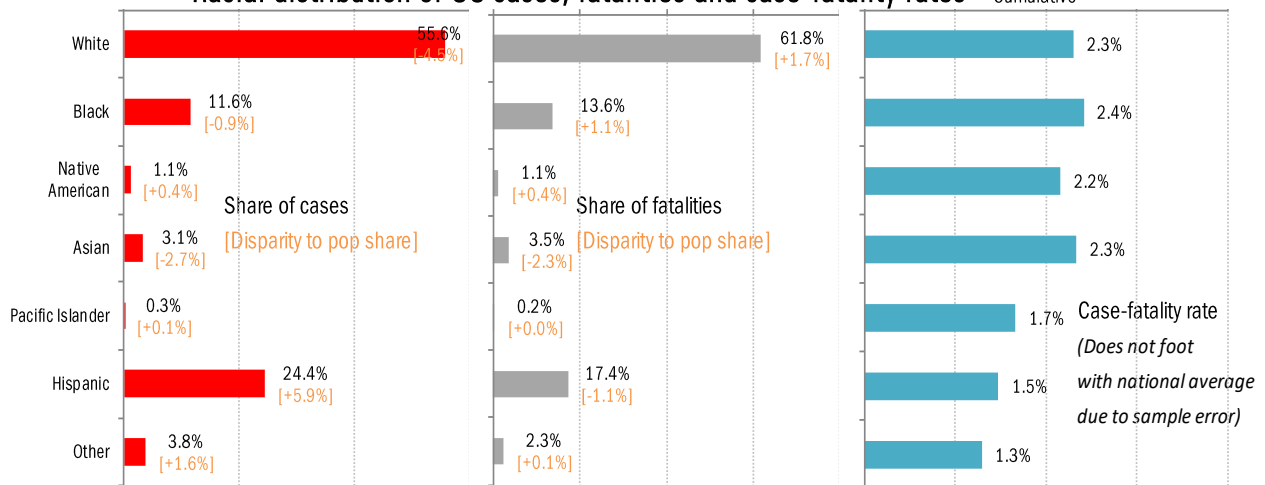


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

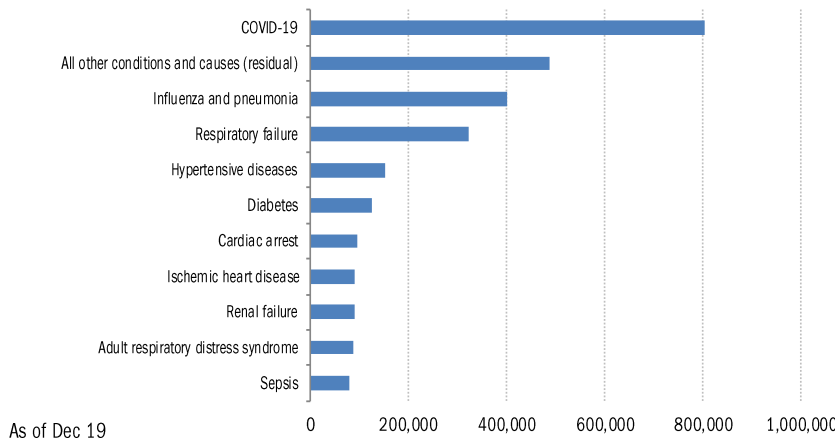


Racial distribution of US cases, fatalities and case-fatality rates



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

[As Omicron Spreads, Officials Ponder What It Means to Be 'Fully Vaccinated'](#)

Emily Anthes and Noah Weiland  
*New York Times*  
December 29, 2021

[Omicron infection enhances neutralizing immunity against the Delta variant](#)

Khadija Khan et al.  
*medRxiv*  
December 27, 2021

['This was the moment': CDC defends altered guidance amid Omicron surge](#)

Quint Forgey  
*Politico*  
December 29, 2021

[Striking Antibody Evasion Manifested by the Omicron Variant of SARS-CoV-2](#)

Lihong Liu et al.  
*medRxiv*  
December 21, 2021

[WaPo's Jennifer Rubin roasted over COVID about-face after urging Americans to 'stop agonizing' over cases](#)

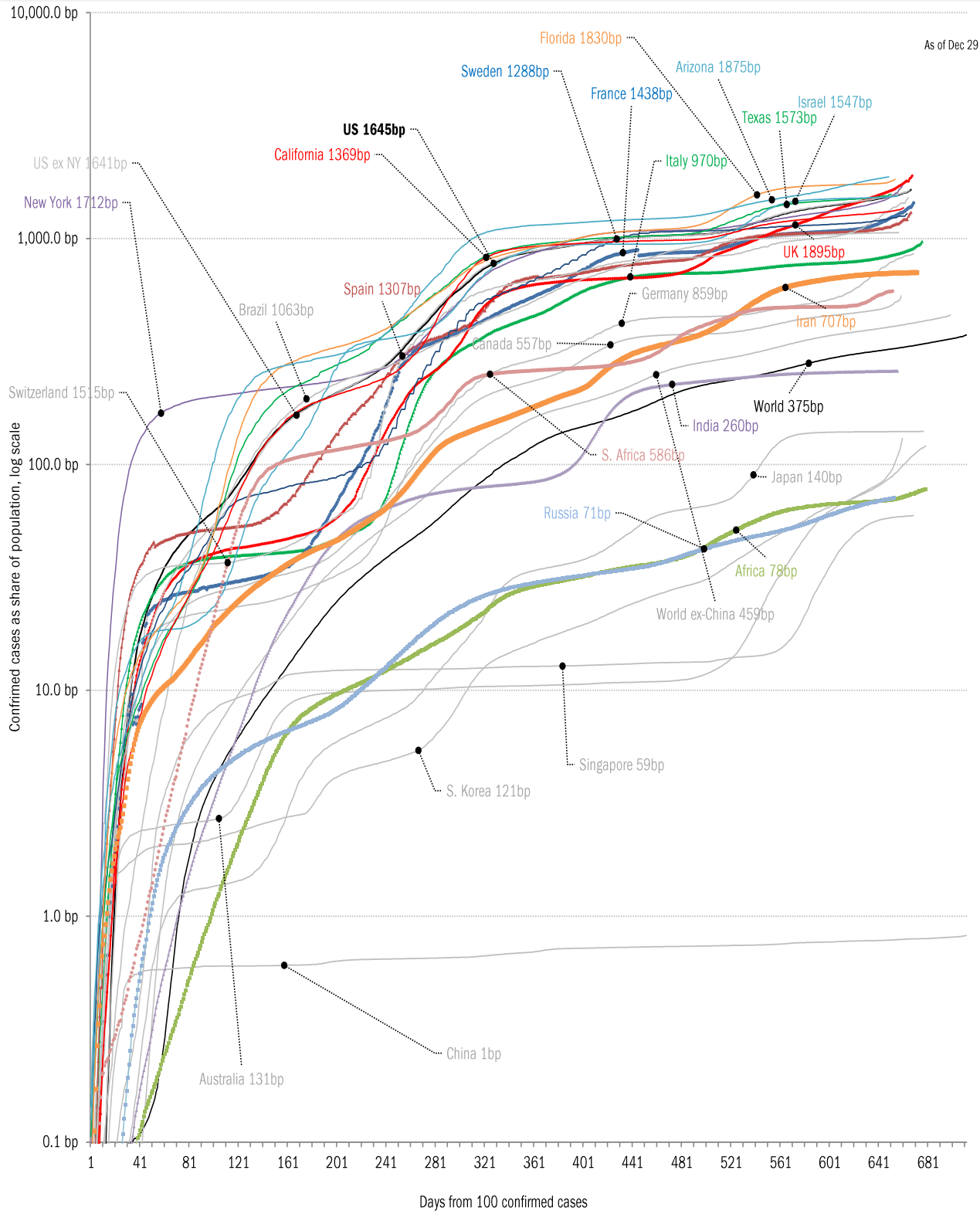
Brian Flood  
*Fox News*  
December 28, 2021

## Meme of the day



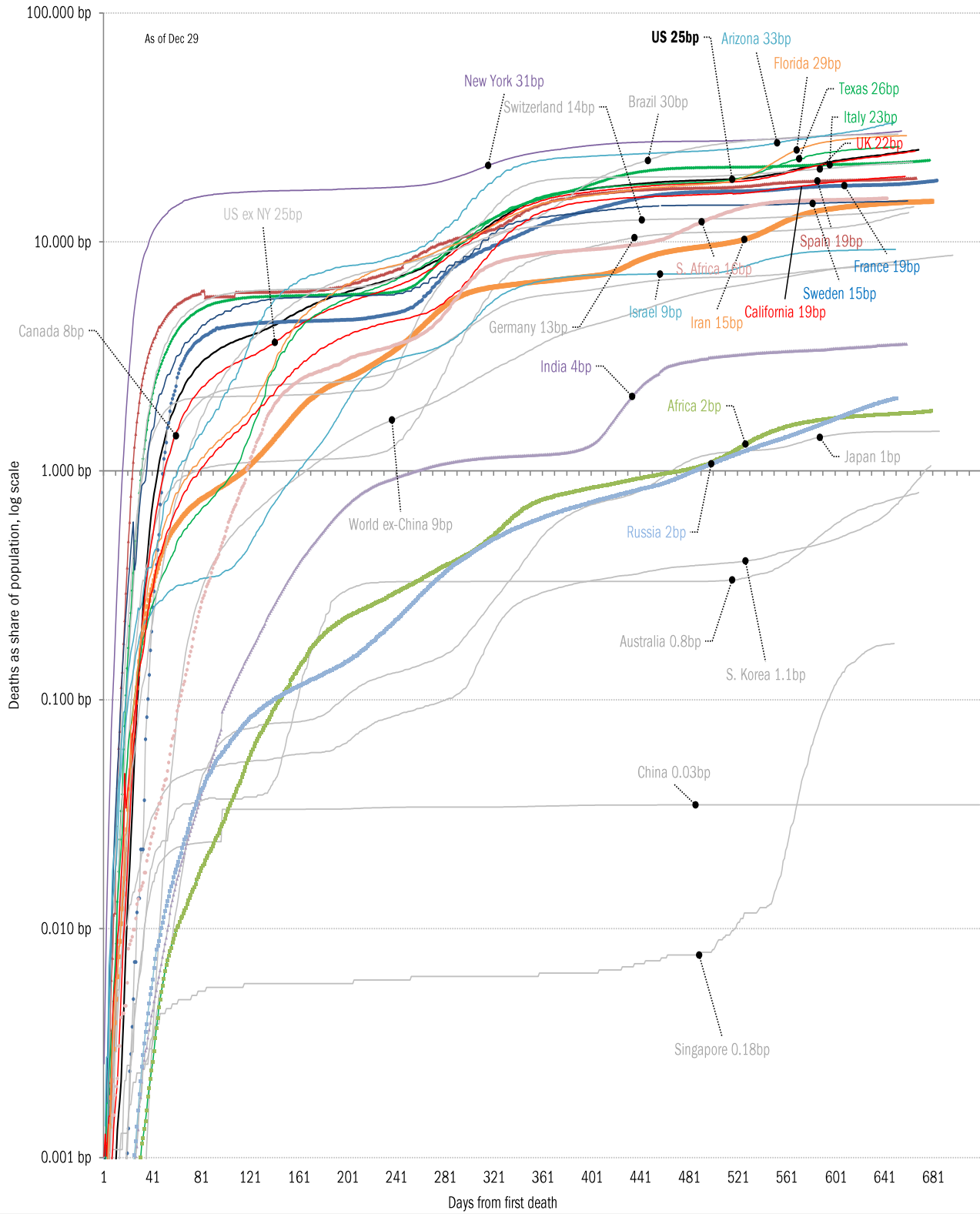
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



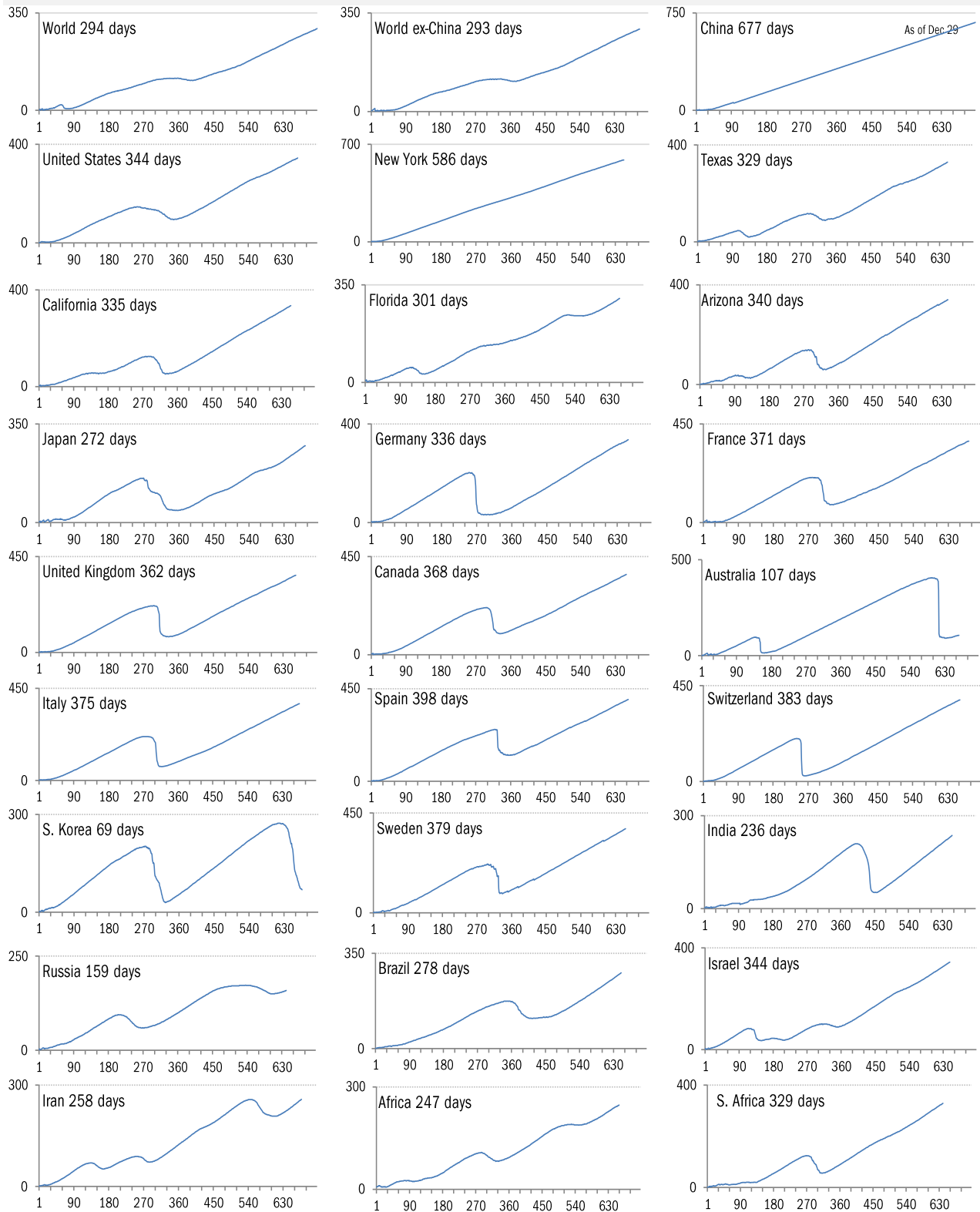
Source: [Johns Hopkins](#), TrendMacro calculations



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

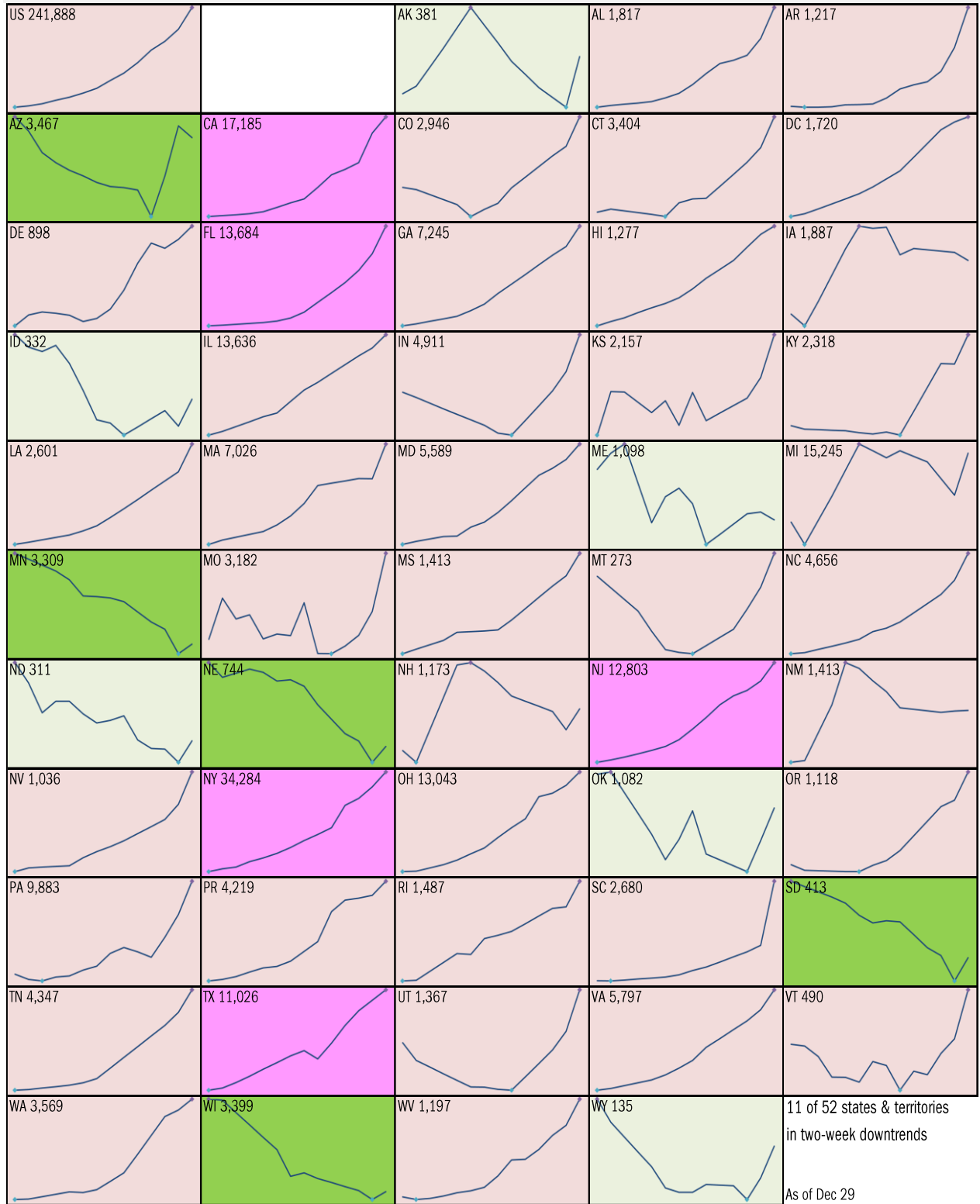
Vertical: days to double deaths Horizontal: days from first death

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

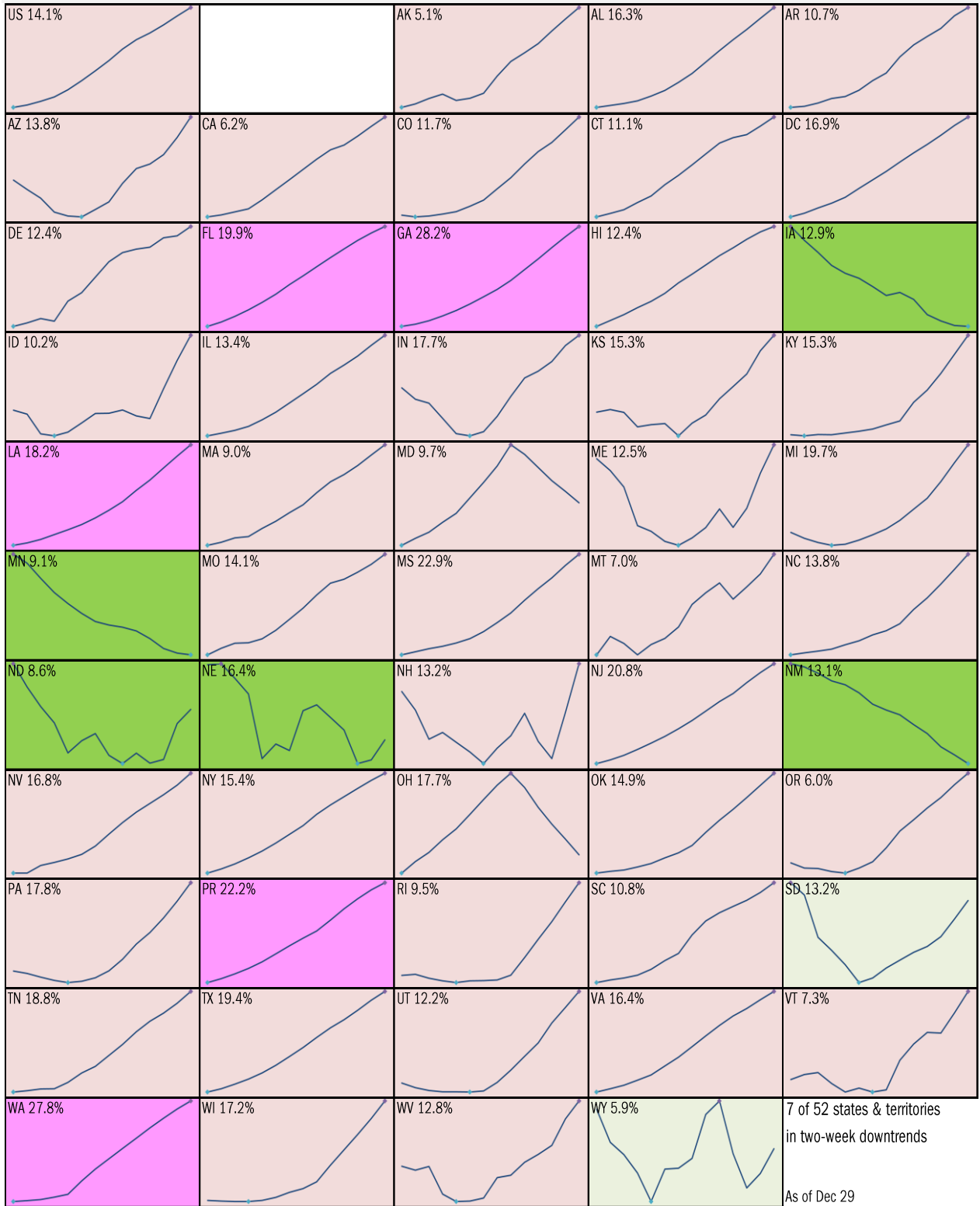


Source: [Johns Hopkins](#), TrendMacro calculations

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

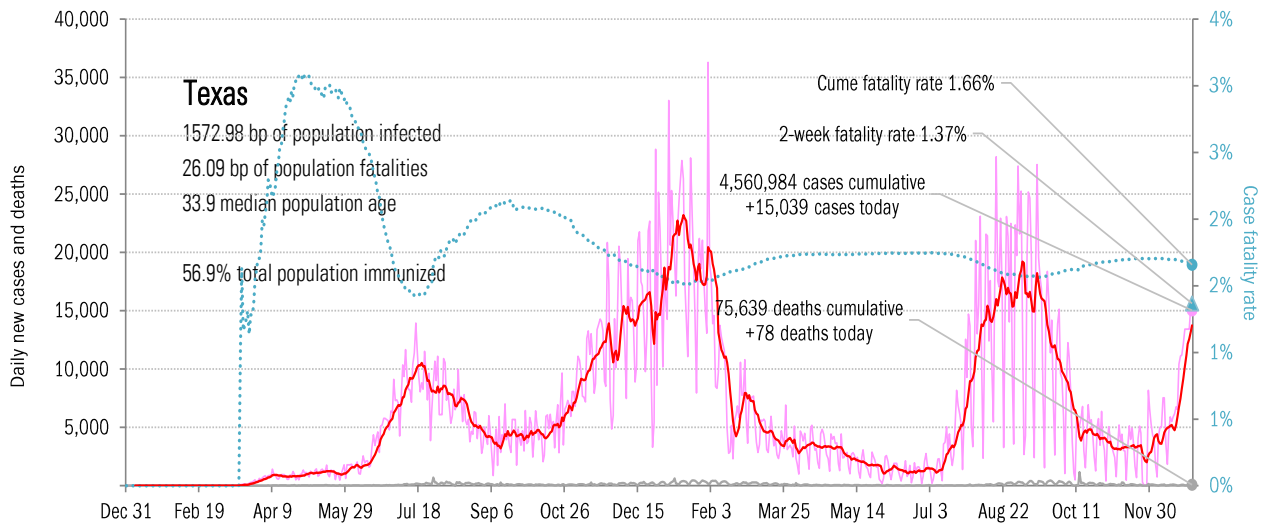
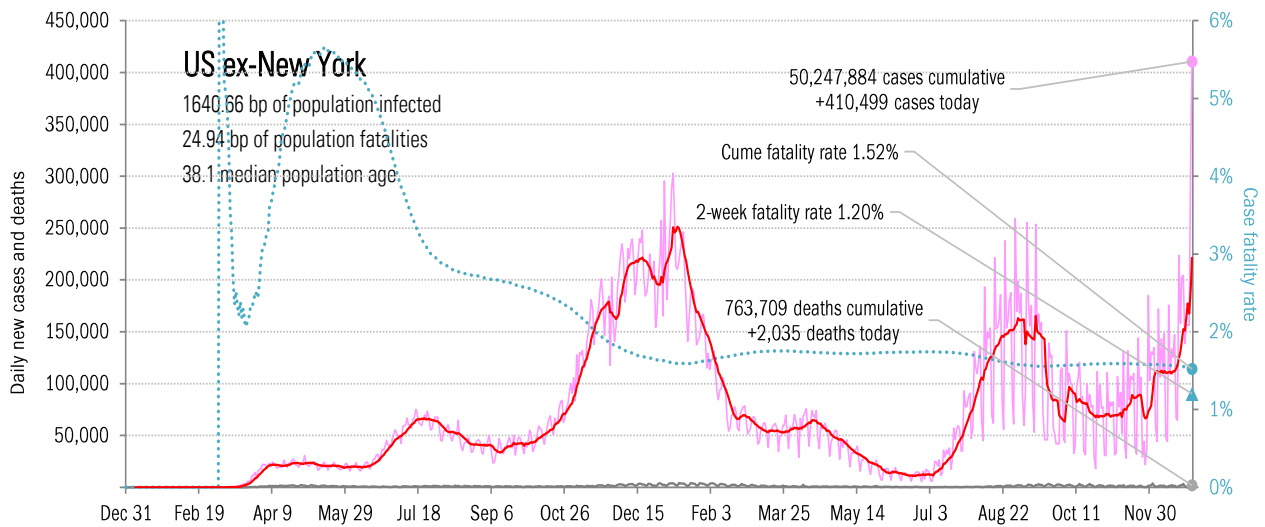
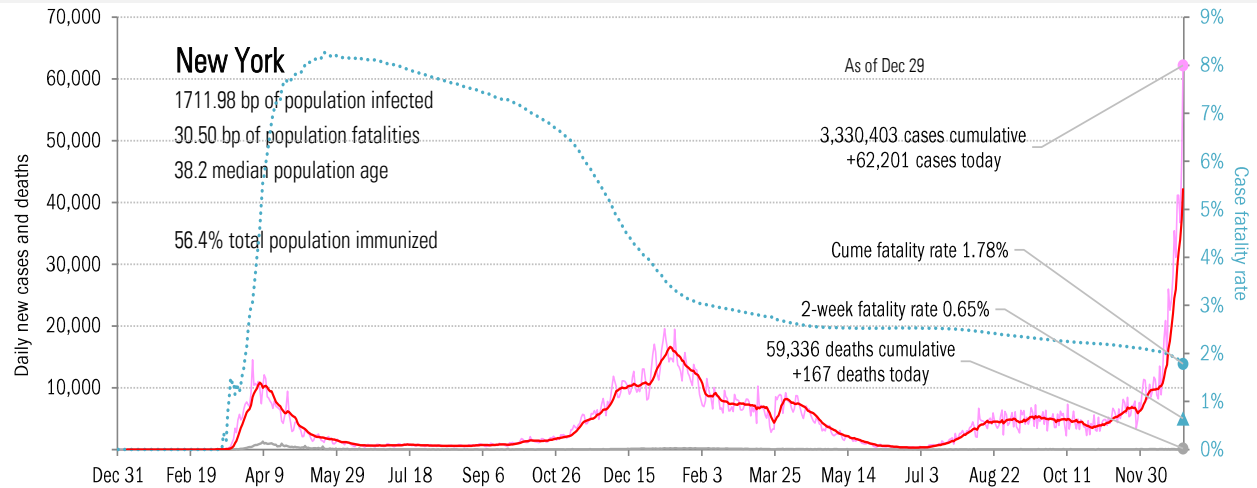
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

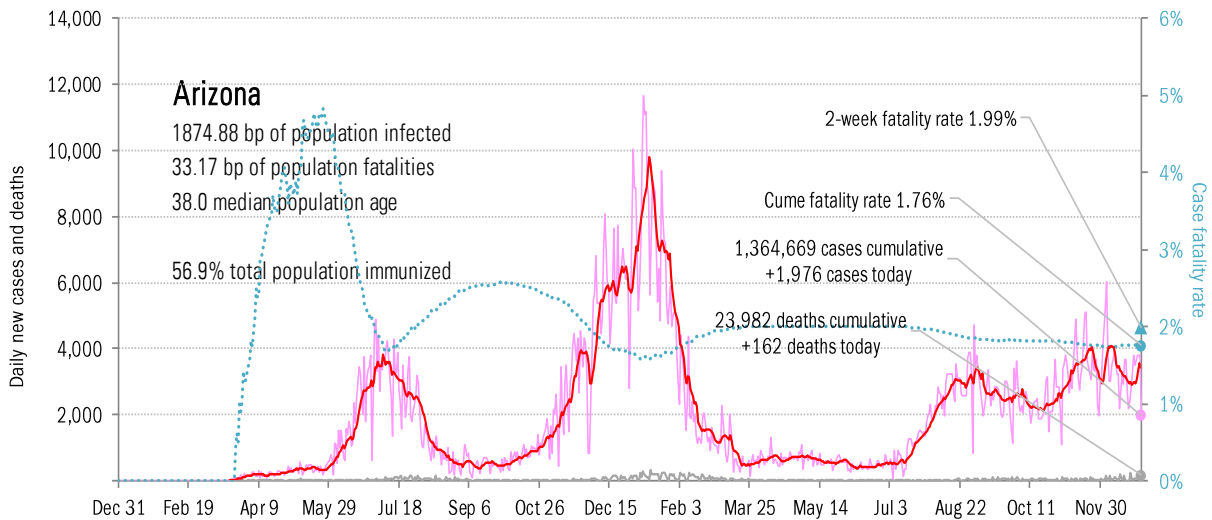
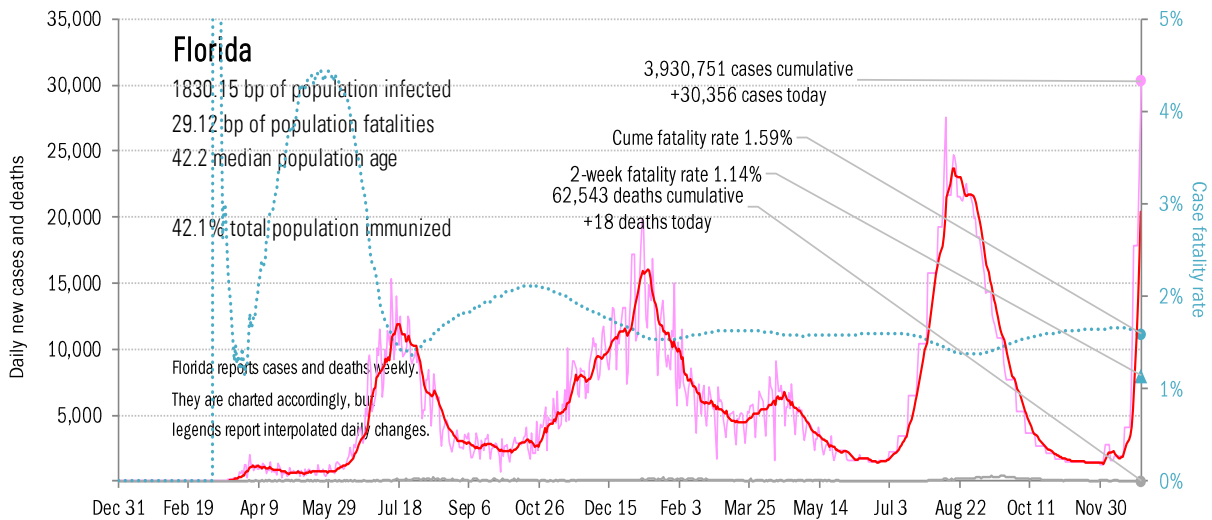
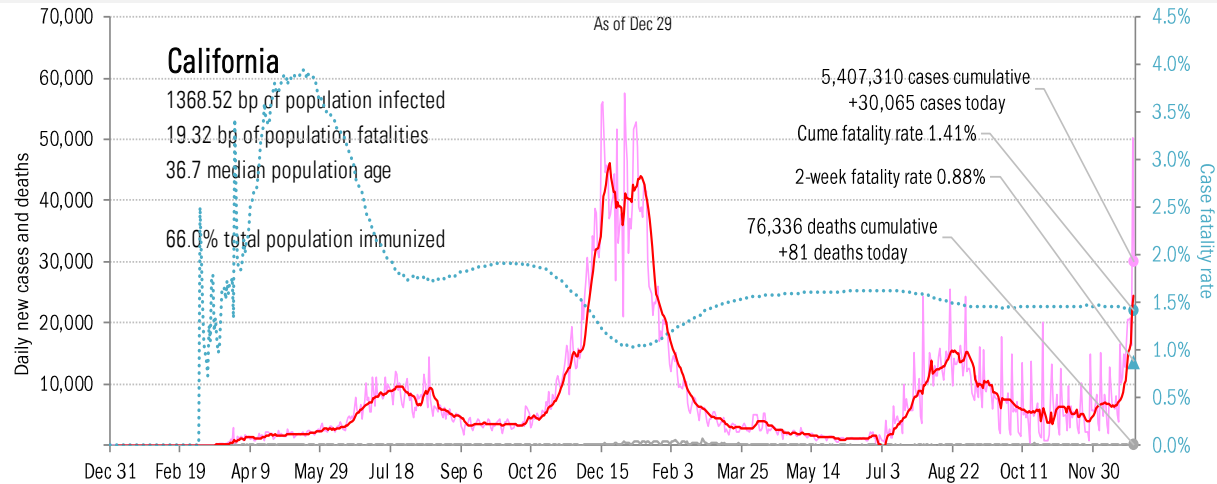
Cases: 7-day average and daily Deaths: Daily



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

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

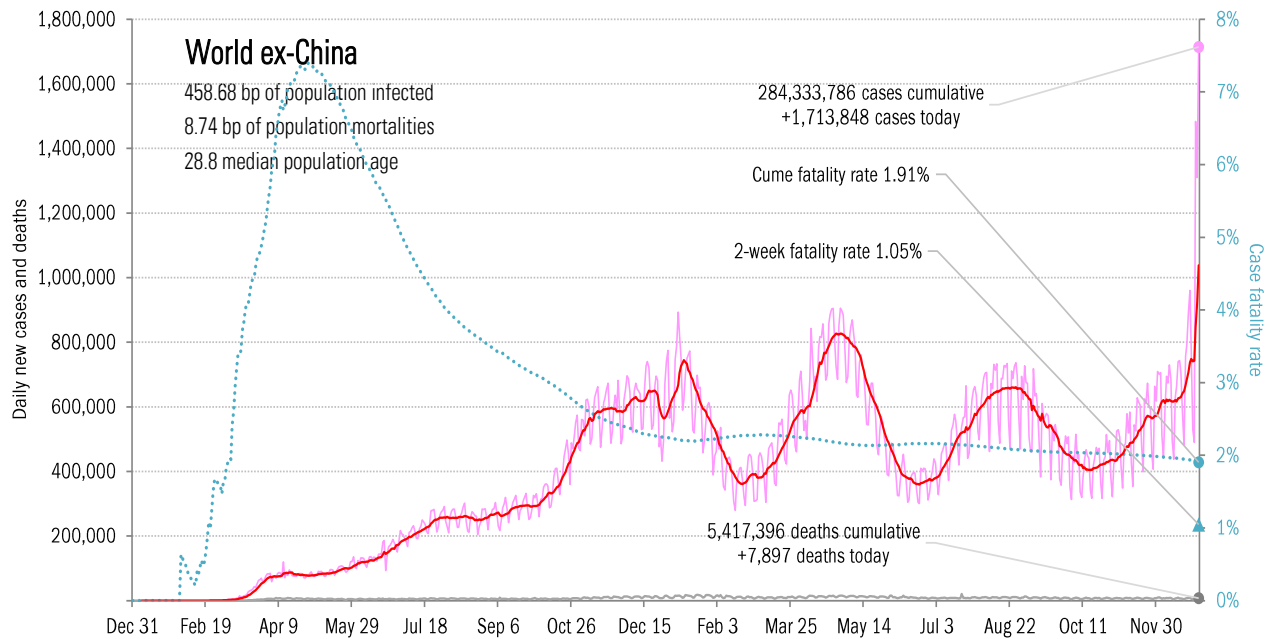
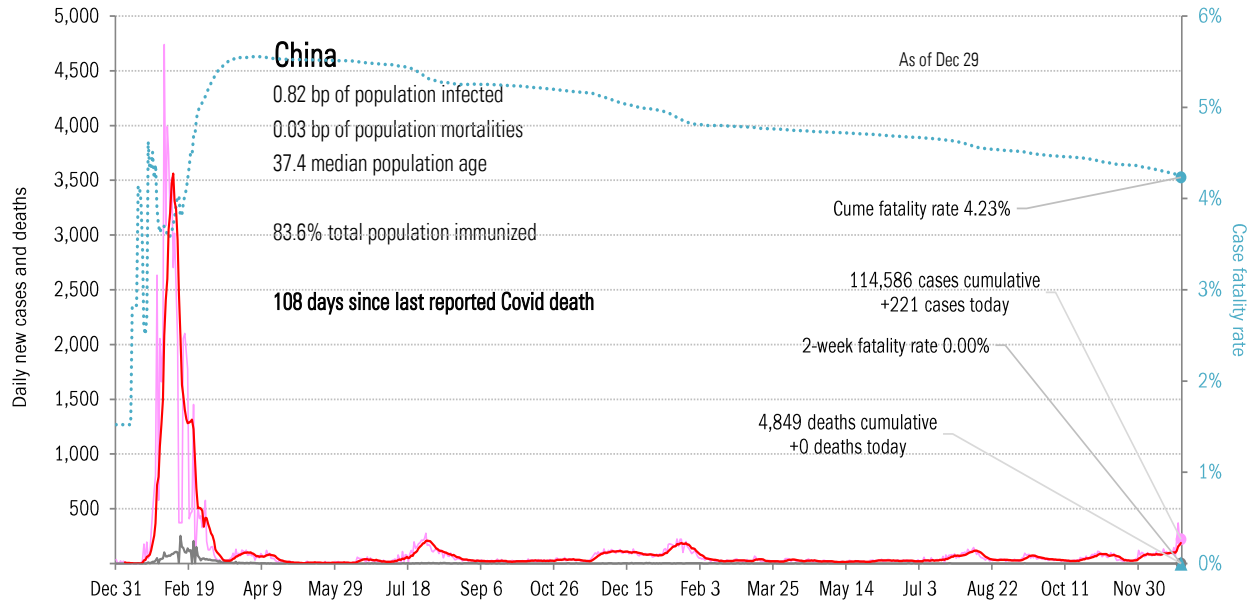
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

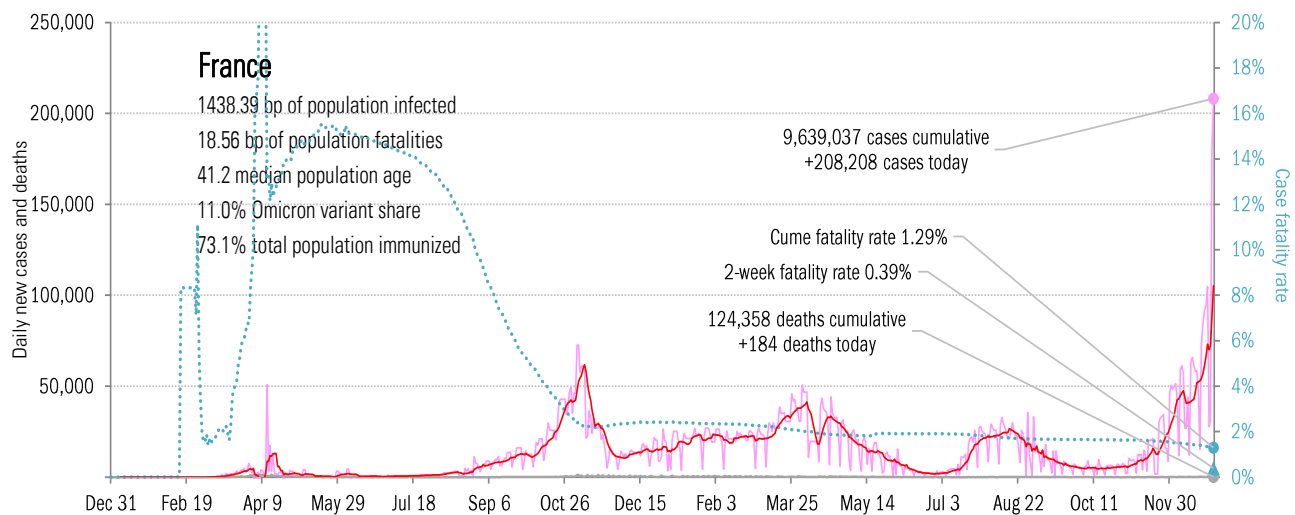
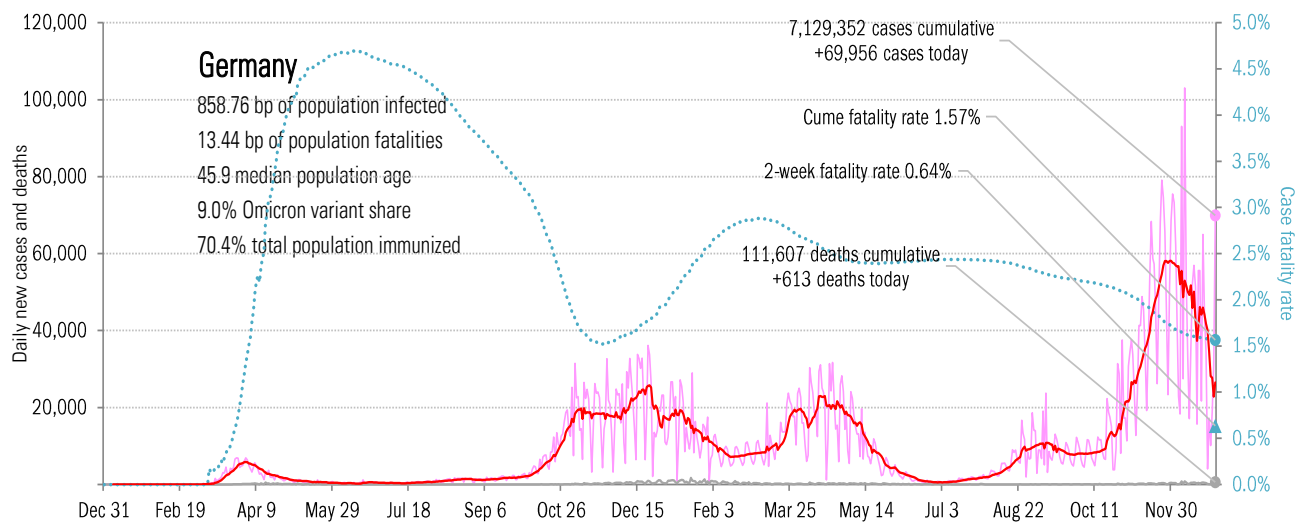
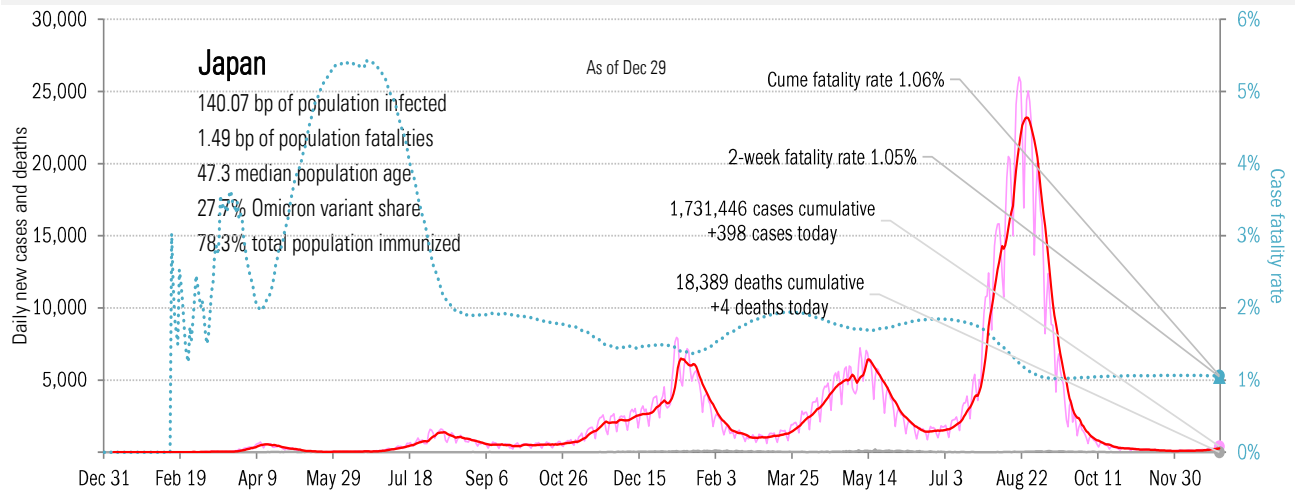
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

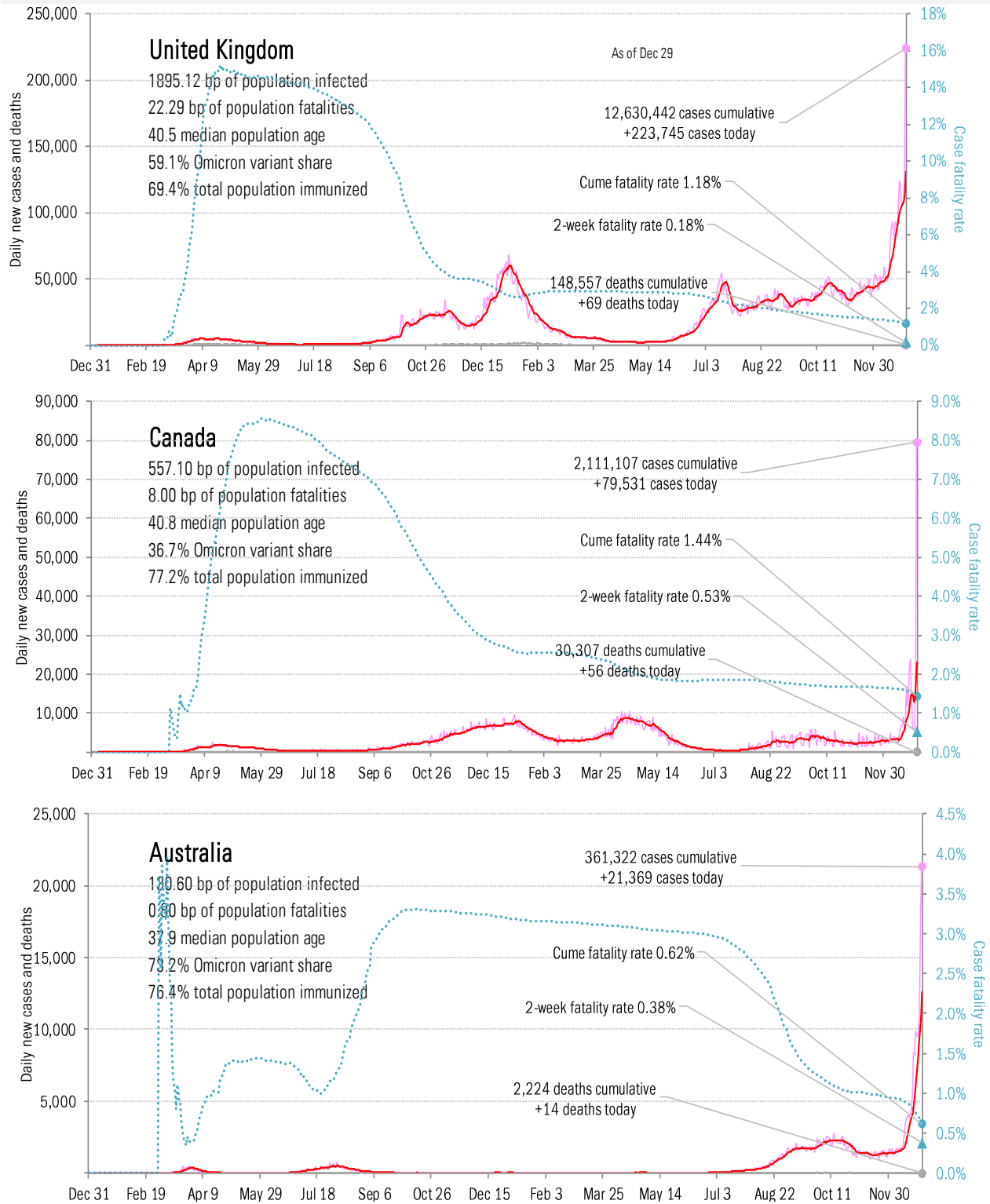
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

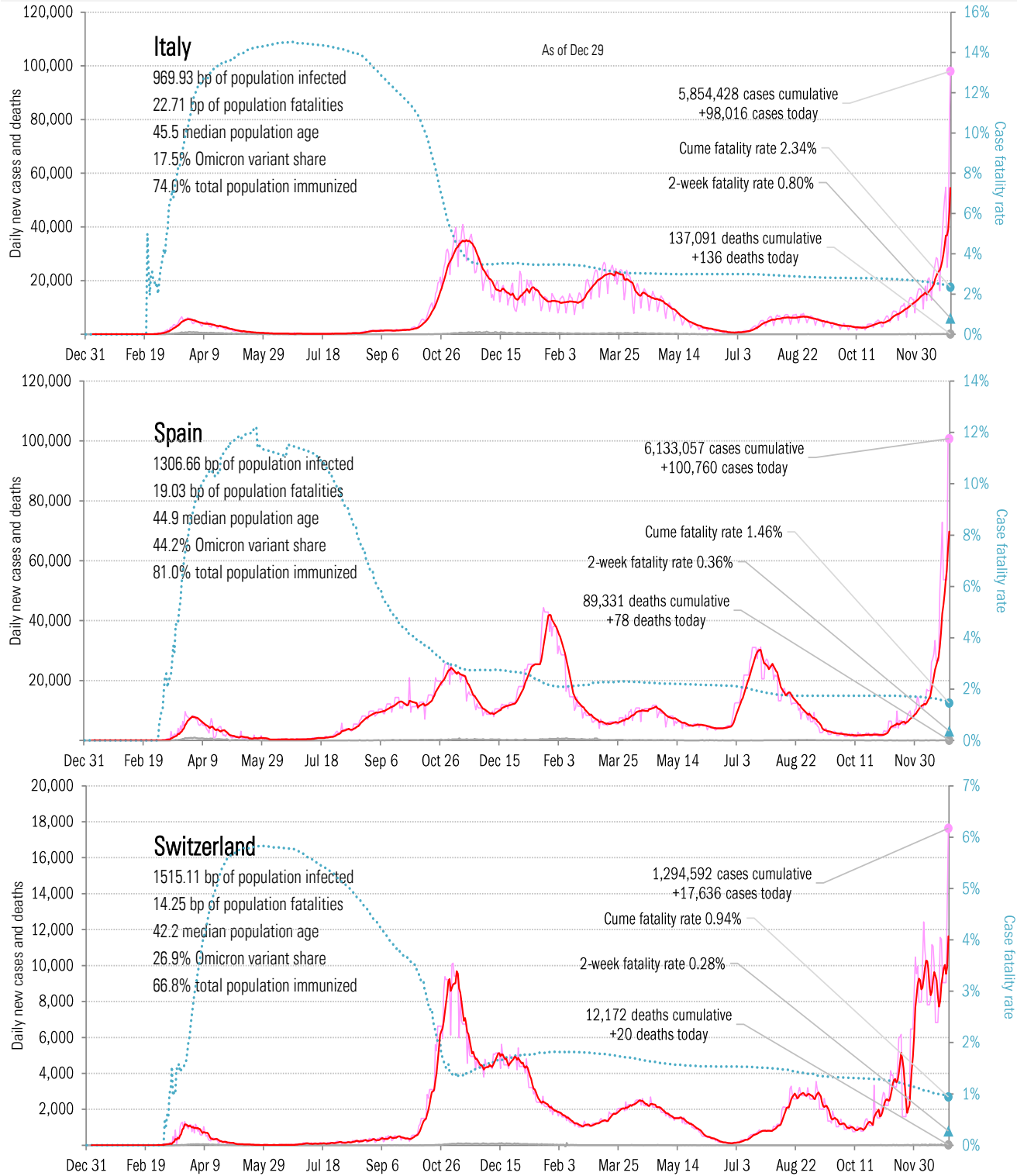


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

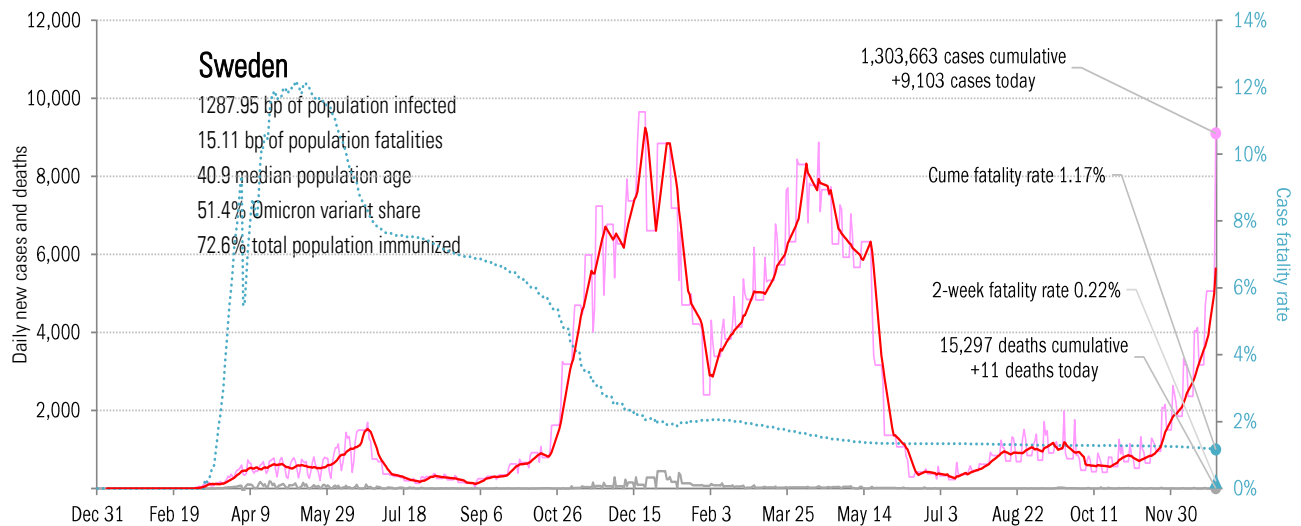
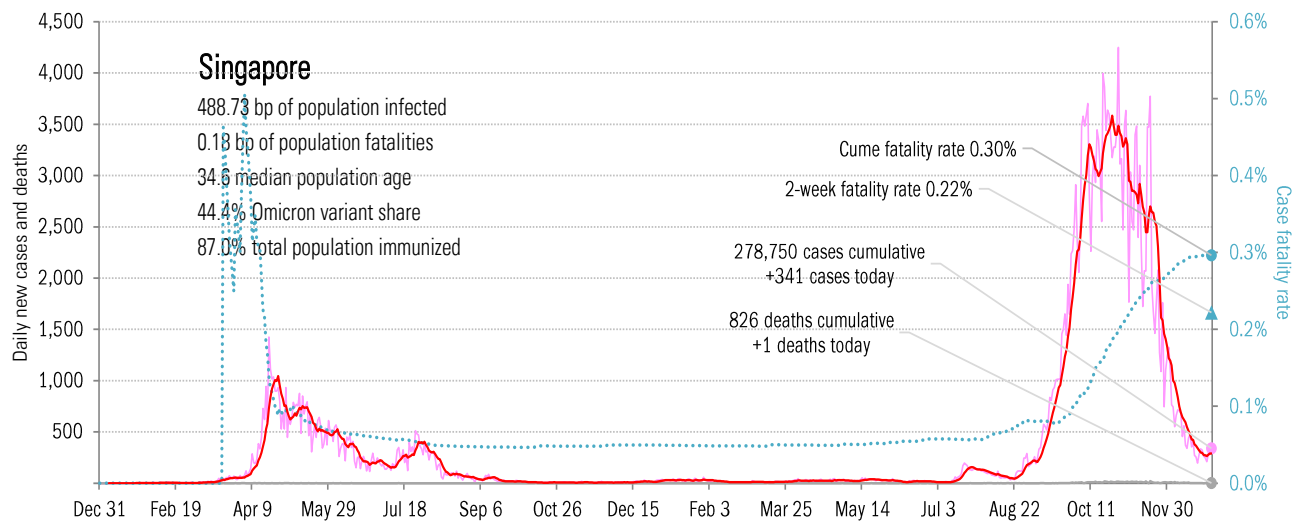
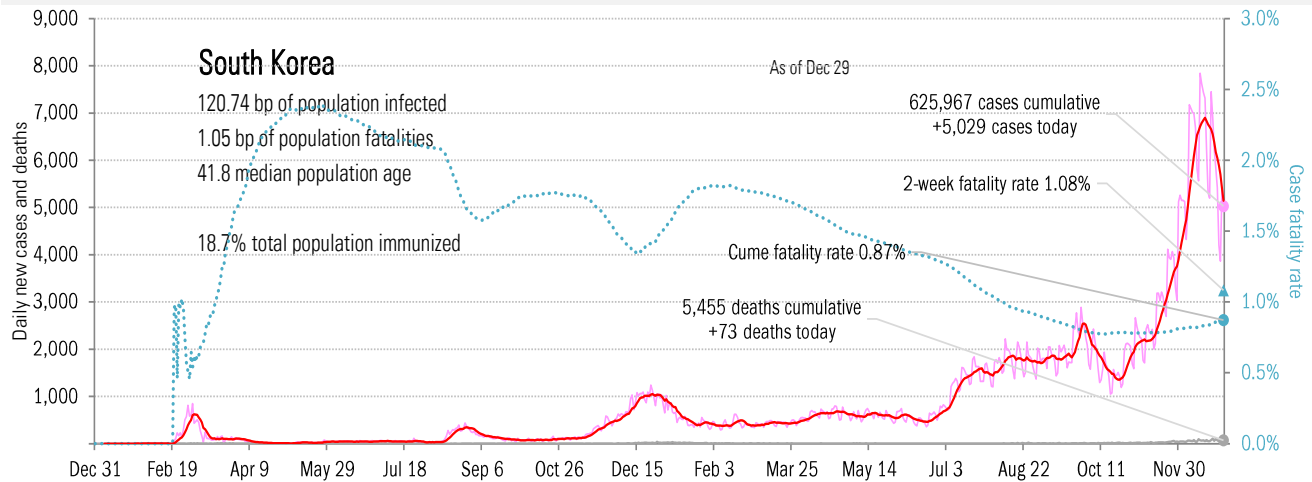
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

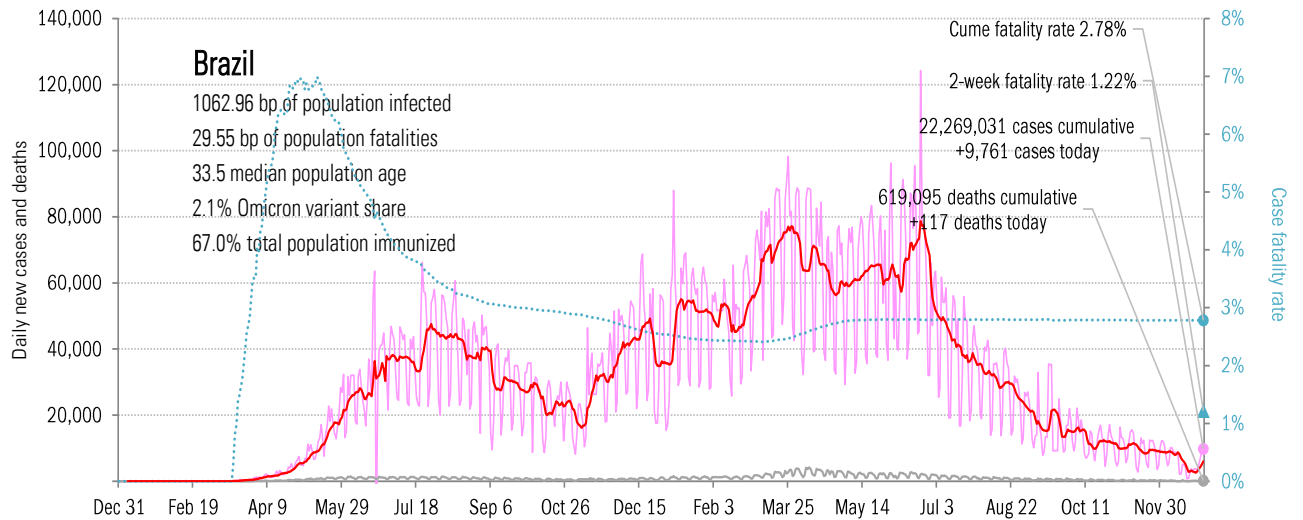
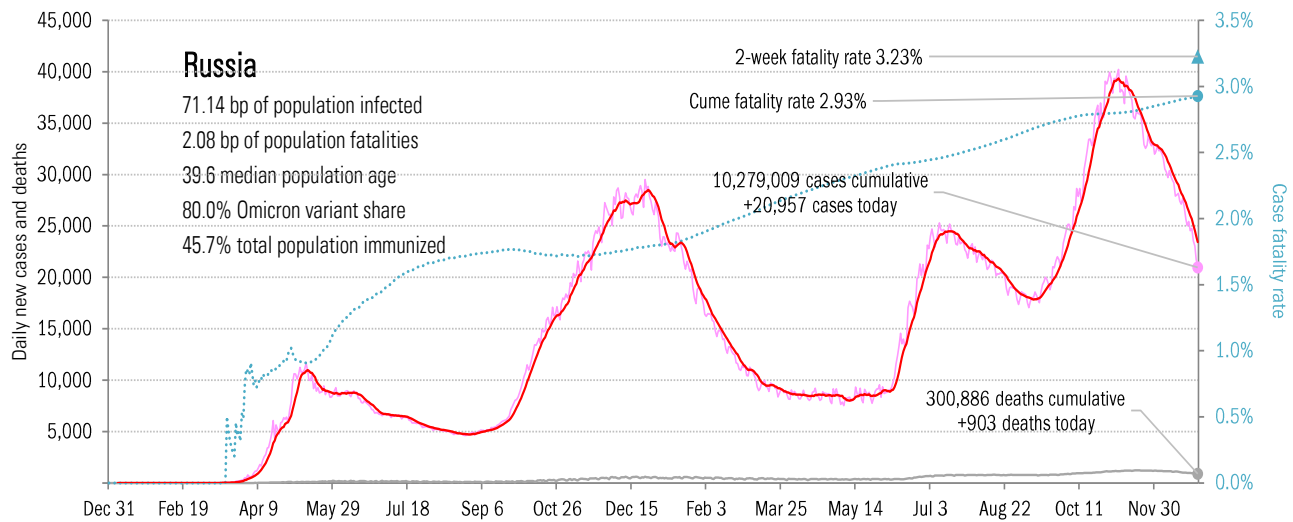
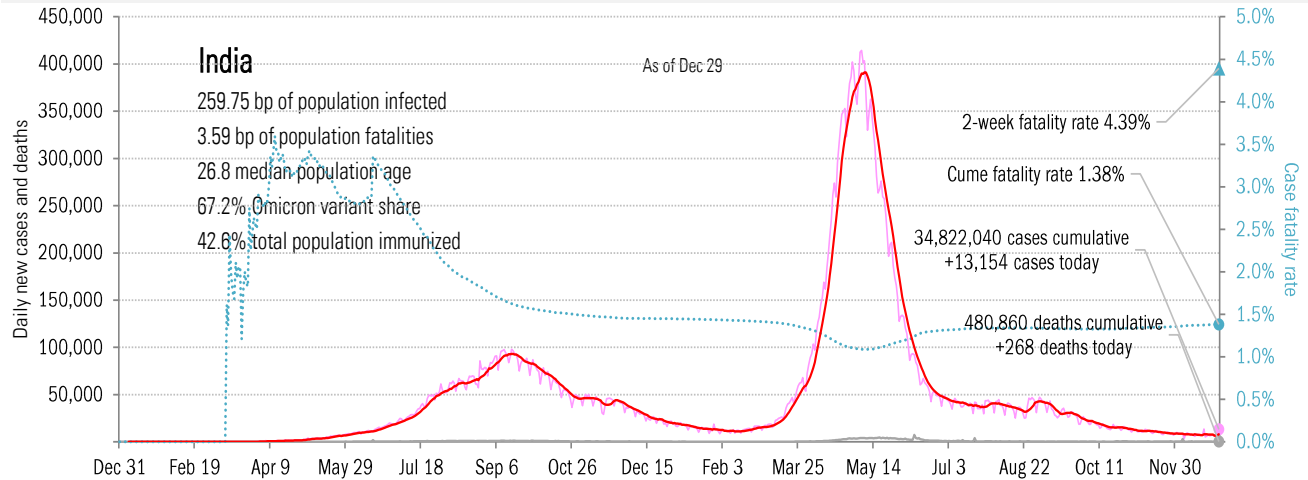
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

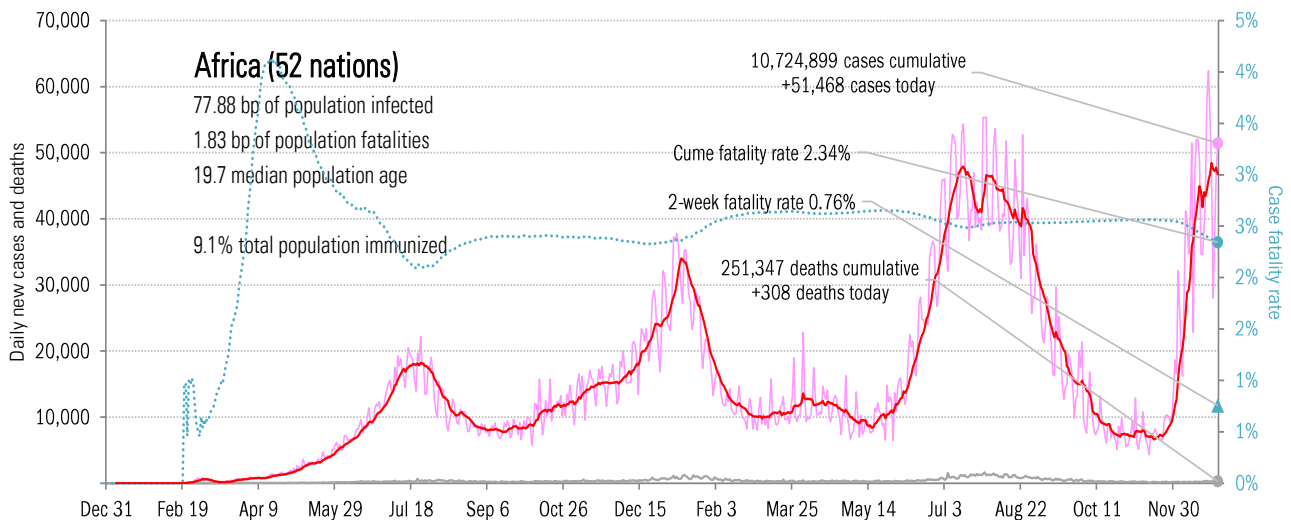
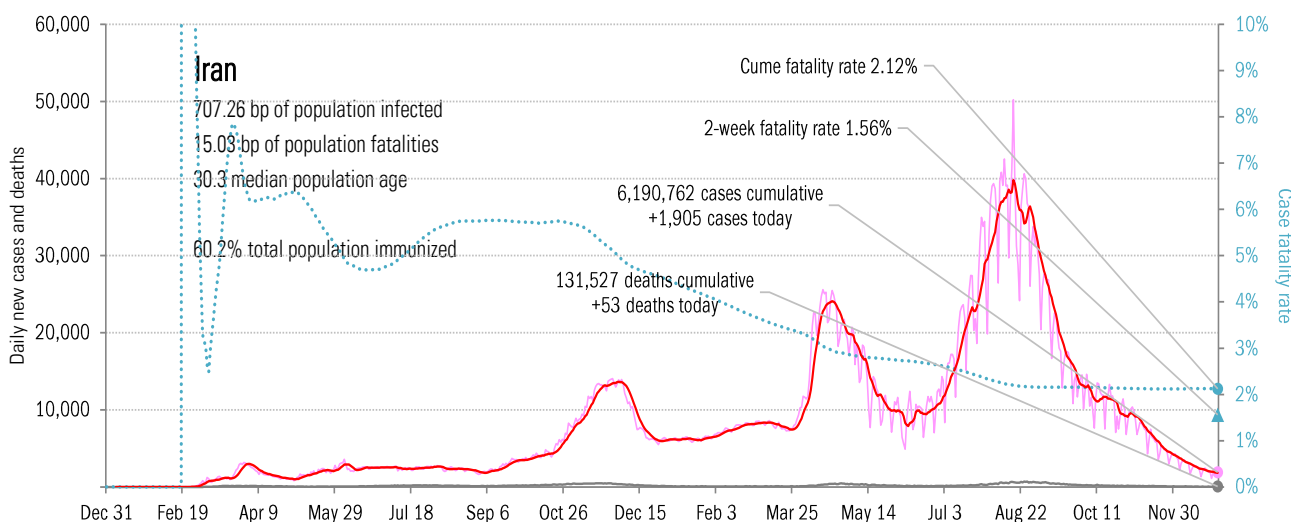
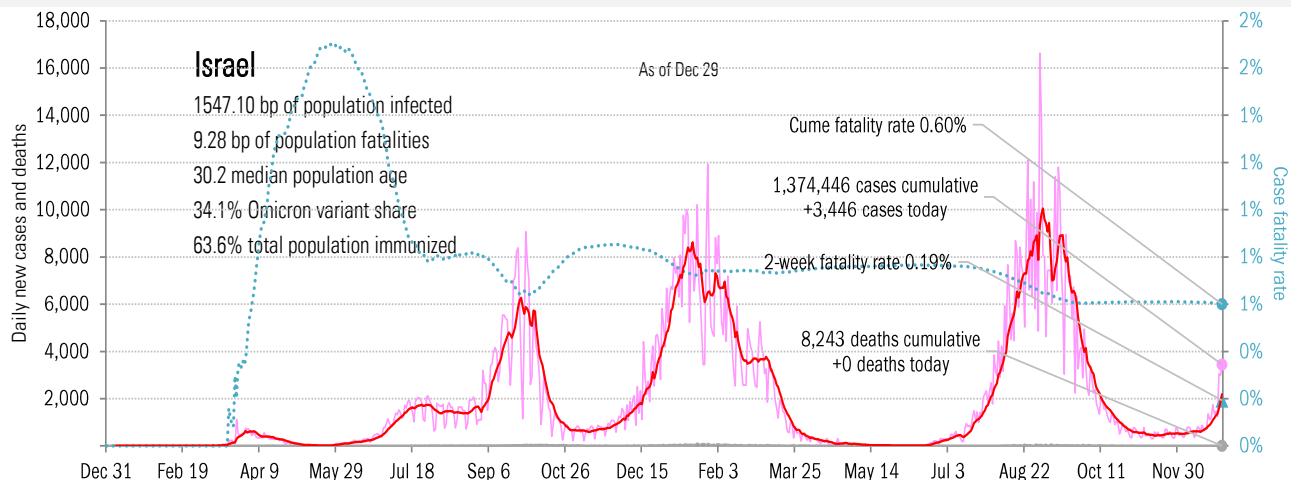
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

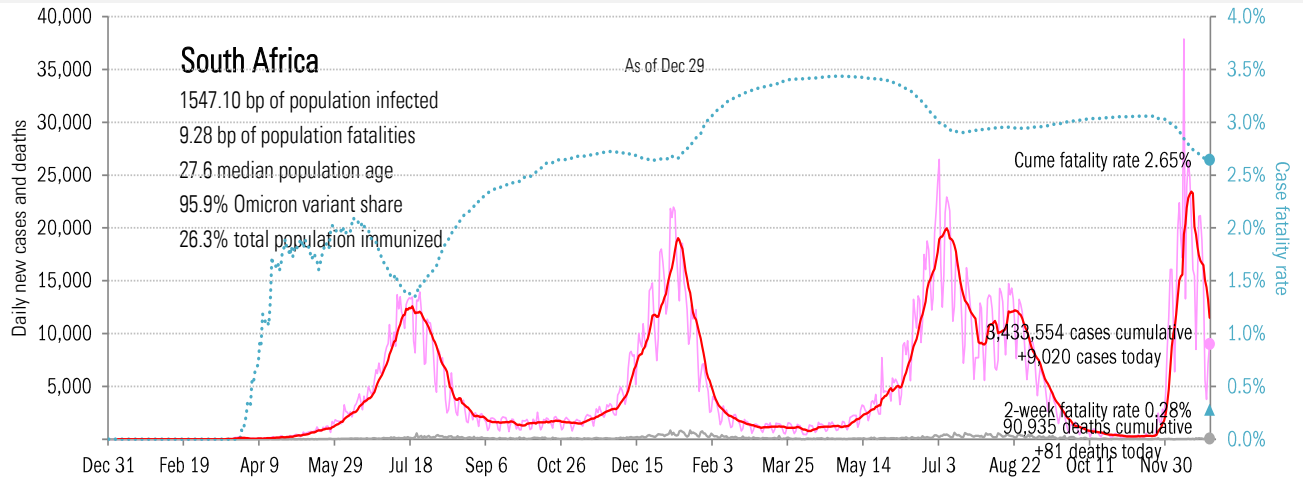
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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