

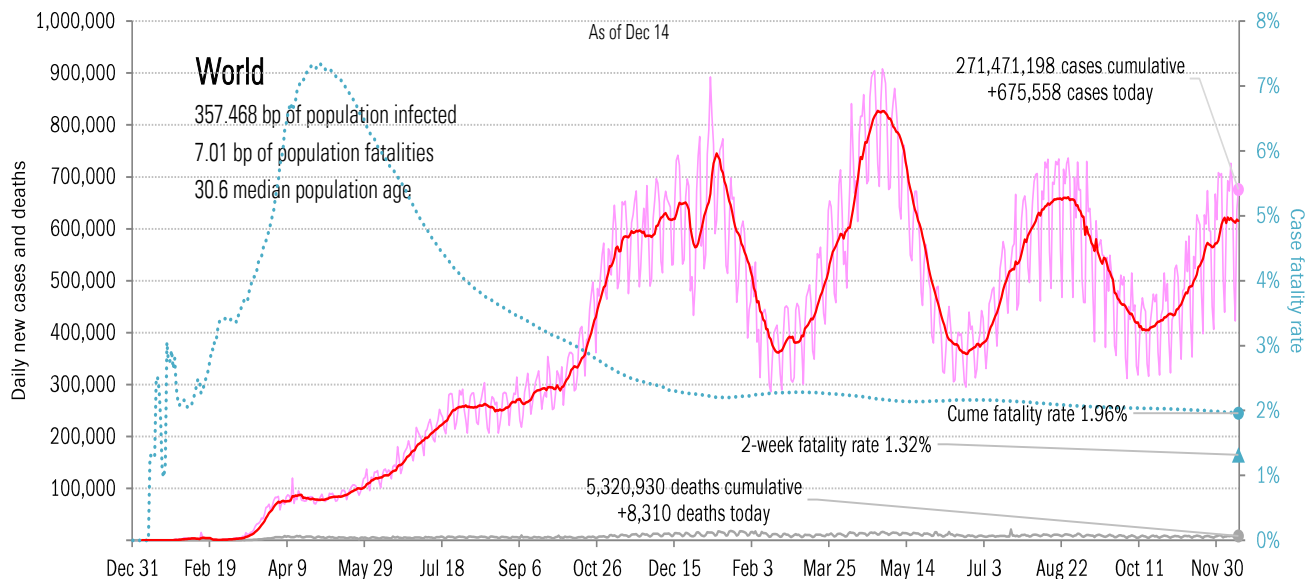
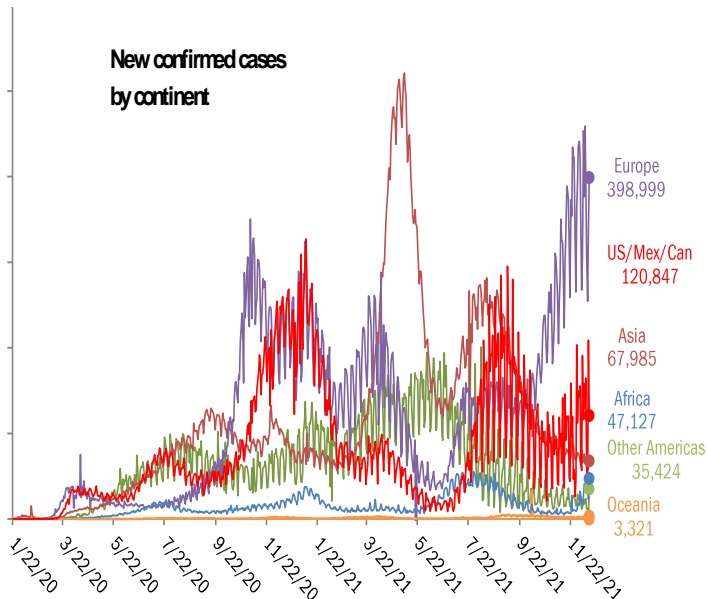
## Data Insights: Covid-2019 Monitor

Wednesday, December 15, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+115,604	United States	+1,670
France	+63,416	Russia	+1,114
United Kingdom	+60,067	Poland	+537
Germany	+52,233	Brazil	+513
Russia	+27,910	Germany	+454
Spain	+26,136	Ukraine	+418
South Africa	+23,857	Vietnam	+252
Turkey	+21,477	India	+247
Italy	+20,665	Bulgaria	+228
Brazil	+18,716	Hungary	+195
<b>+430,081</b>		<b>+5,628</b>	
World	+675,558	World	+8,310
Top ten	64%	Top ten	68%



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

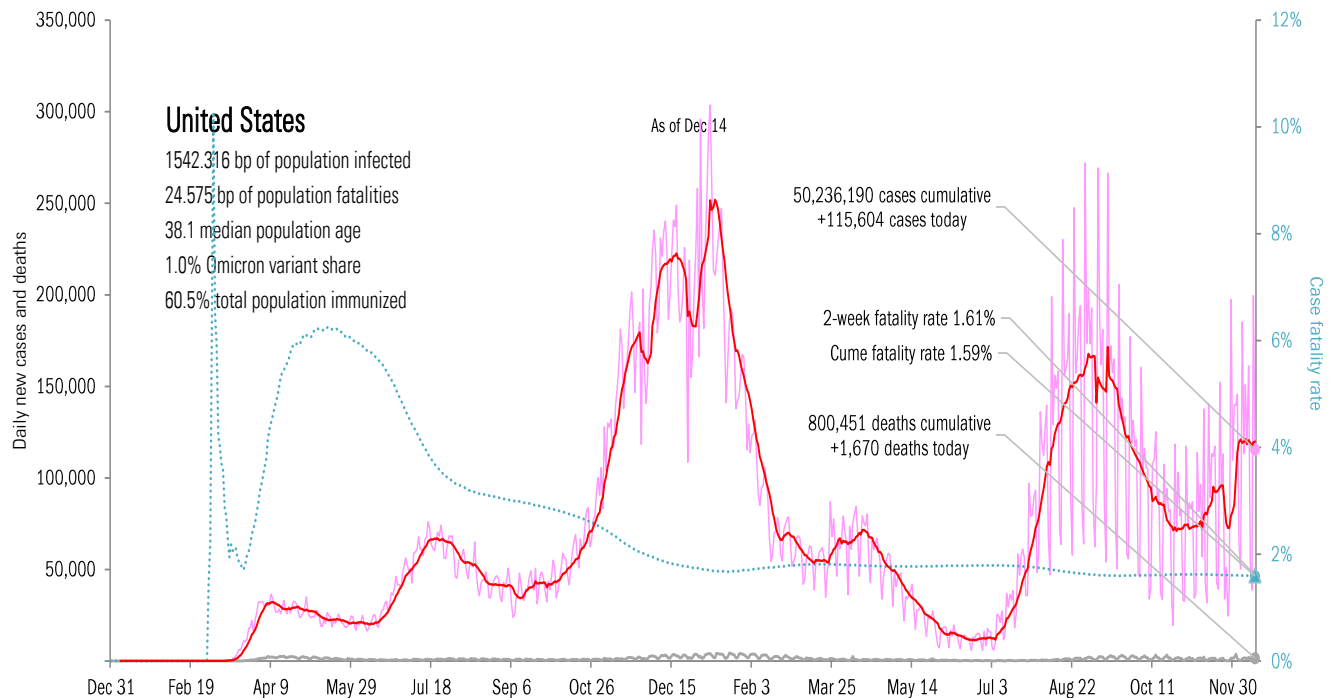
## The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
CH	+9,922		CH	+223		GA	+60		CA	5,177,395		CA	75,428		TX	390,016		RI	87%	RI	93%
MN	+9,025		AZ	+203		MD	+18		TX	4,401,117		TX	74,707		FL	326,078		PA	85%	KY	91%
NY	+8,849		PA	+113		SC	+7		FL	3,756,894		FL	62,181		CA	325,846		MA	84%	NH	89%
PA	+7,441		IN	+92		DC	+5		NY	2,868,885		NY	58,287		NY	179,029		MI	84%	MO	86%
IL	+7,390		TX	+75		DE	+5		IL	1,911,649		PA	34,731		GA	165,173		AZ	84%	NM	86%
TX	+5,912		CO	+70		RI	+1		PA	1,850,578		GA	30,882		CH	143,600		WA	83%	MI	86%
CA	+5,744		NY	+65		AS	+0		CH	1,796,951		IL	29,367		PA	134,167		GA	82%	PA	86%
WI	+4,836		MA	+62		GU	+0		GA	1,683,676		NJ	28,613		KY	117,024		WV	81%	CK	86%
MA	+4,685		WI	+58		HI	+0		MI	1,585,297		CH	27,594		IL	116,384		MD	81%	TX	85%
NJ	+4,397		CA	+50		MP	+0		NC	1,577,154		MI	27,080		MI	110,525		NY	81%	MA	84%
+68,201			+1,011			+96			26,609,596			448,870			2,007,842						
All states	+115,604			+1,670			-1385		All states	50,236,190			800,451			3,621,251		All states	70%		67%
Top ten	59%			61%			-7%		Top ten	53%			56%			55%		Median	77%		80%

Some states not reporting

## Five most improved US states

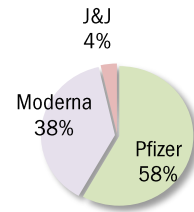
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-17,719	MI	-166	NY	-202	ME	+40 bp
IL	-12,125	KY	-106	MI	-174	WA	+40 bp
CA	-9,215	IL	-77	IN	-150	WY	+30 bp
IN	-7,386	FL	-74	PA	-139	GA	+20 bp
NC	-7,021	CA	-53	IL	-138	IA	+20 bp



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	499,519,997	+1.221 million	US	60.5%	72.2%
Boosters	56,008,310	+0.681 million	UK	68.6%	75.2%
	<b>One dose</b>	<b>% Pop</b>	<b>Immune</b>	<b>% pop</b>	<b>New immune today</b>
Total population	245,476,364	73%	207,615,772	62%	+0.256 million
Age 12 to 17	14,913,020	62%	12,526,375	52%	+0.013 million
Age 18 to 64	166,187,354	82%	141,909,107	70%	+0.091 million
Age 65 and over	57,807,530	100%	49,437,078	90%	+0.015 million



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

Every American >18 immunized in **85 days** by Mar 8, 2022  
 73.9% of population >18 immunized  
 17.7% previously tested positive  
**91.6%** vs 60% adult herd immunity

France	71.3%	77.4%
Spain	80.7%	82.5%
Germany	69.1%	72.1%
Italy	73.5%	79.0%
Australia	75.1%	78.5%
Israel	62.4%	69.1%
Canada	76.8%	82.1%
Japan	77.9%	79.4%
Africa	8.1%	12.5%
India	37.7%	58.9%
Brazil	65.5%	77.1%
China	80.5%	84.8%

Global data differs due to sources, timing

AK
64.1%
55.6%

WI
67.1%
61.0%

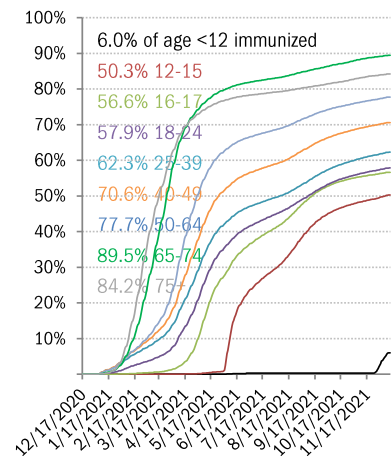
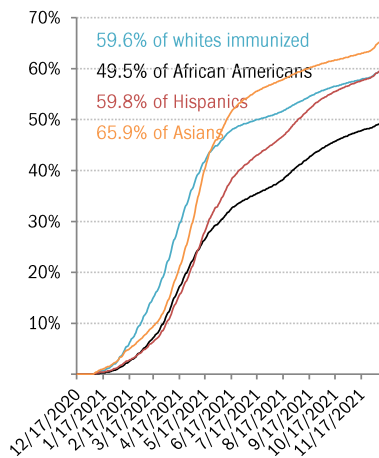
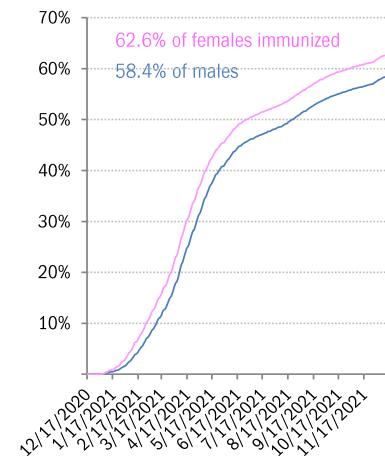
As of Dec 14

ME
84.0%
74.5%

WA: 74.3% / 66.9%	ID: 51.5% / 45.8%	MT: 61.0% / 53.0%	ND: 61.2% / 51.7%	MN: 70.3% / 64.4%	IL: 70.9% / 63.3%	MI: 62.4% / 55.9%	NY: 81.2% / 70.5%	VT: 87.5% / 75.6%	NH: 93.2% / 66.1%	
OR: 72.8% / 65.6%	NV: 67.9% / 55.6%	WY: 54.9% / 46.7%	SD: 69.1% / 56.0%	IA: 63.8% / 58.1%	IN: 56.9% / 51.5%	OH: 59.5% / 54.4%	PA: 84.1% / 60.3%	NJ: 81.4% / 69.4%	MA: 88.2% / 73.4%	
CA: 80.8% / 64.9%	UT: 66.0% / 57.2%	CO: 73.0% / 65.1%	NE: 65.3% / 58.9%	MO: 61.2% / 52.2%	KY: 61.5% / 53.4%	WV: 89.4% / 71.4%	VA: 77.3% / 66.9%	MD: 78.6% / 69.4%	CT: 86.3% / 73.7%	RI: 86.0% / 75.1%
	AZ: 65.9% / 56.0%	NM: 78.8% / 65.2%	KS: 67.7% / 56.0%	AR: 61.7% / 50.4%	TN: 57.8% / 50.5%	NC: 73.2% / 55.6%	SC: 61.6% / 52.4%	DC: 85.0% / 66.3%	DE: 74.8% / 62.8%	
			OK: 64.4% / 52.6%	LA: 56.5% / 49.6%	MS: 54.7% / 47.5%	AL: 57.6% / 47.0%	GA: 60.1% / 50.1%			
			TX: 65.4% / 56.0%					FL: 73.1% / 62.5%	PR: 86.5% / 75.2%	

HI
83.6%
62.5%

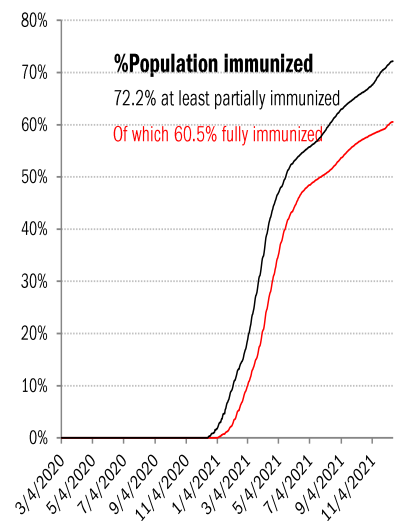
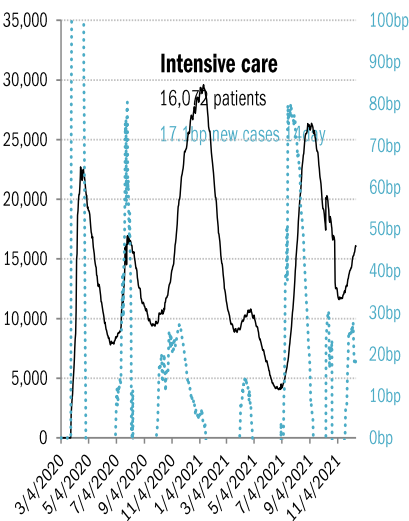
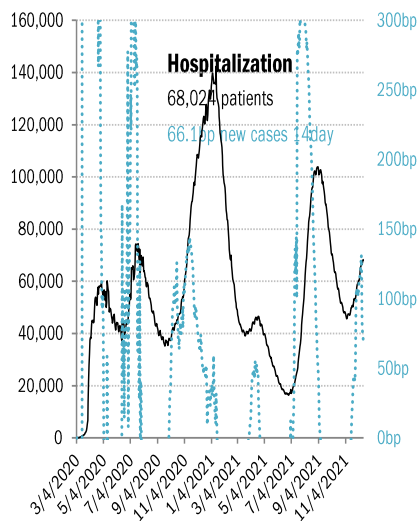
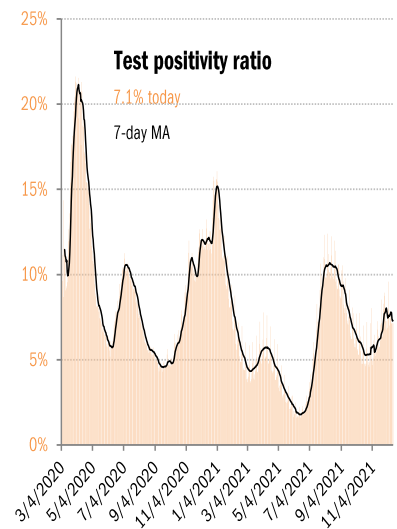
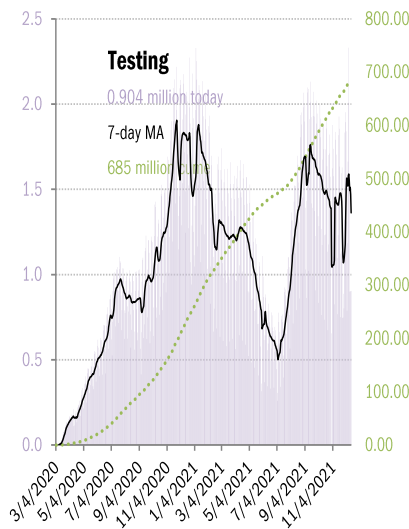
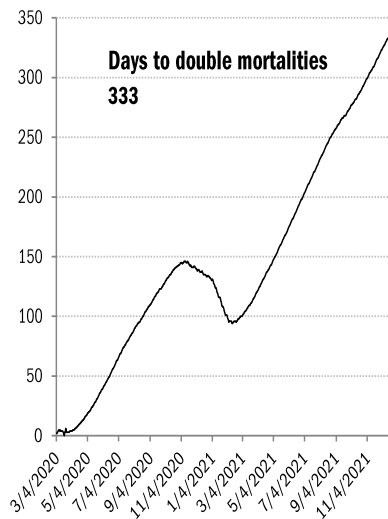
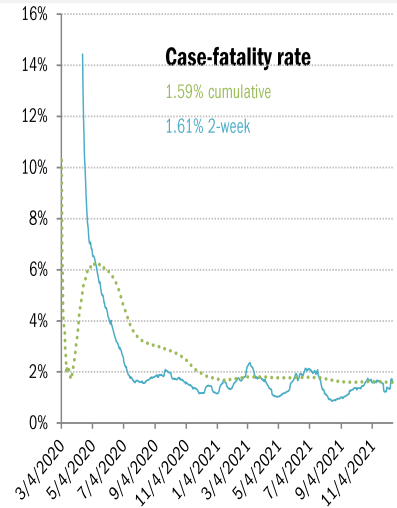
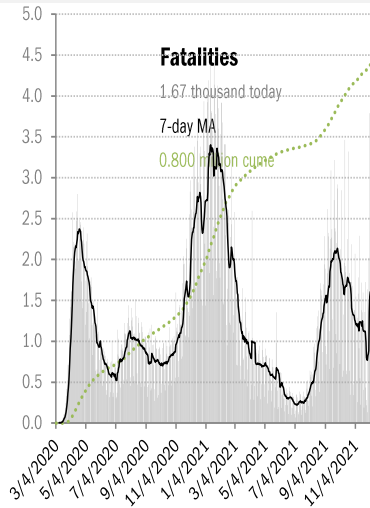
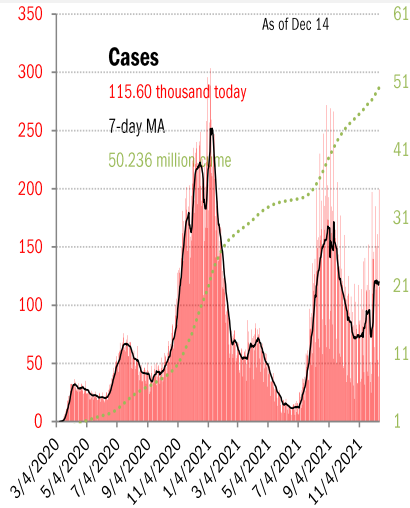
## The demographics of US vaccination



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

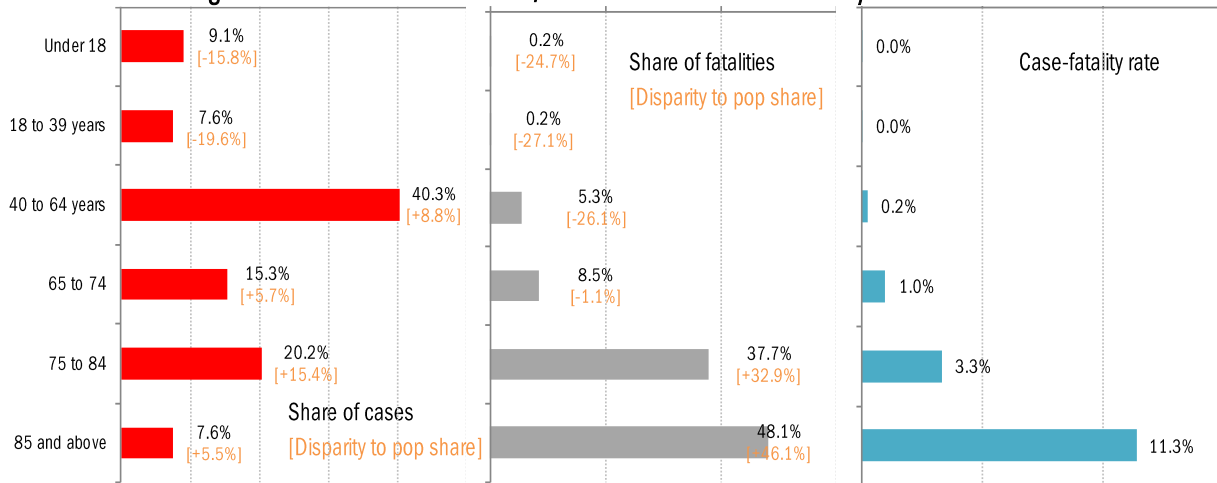
# US deep-dive

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

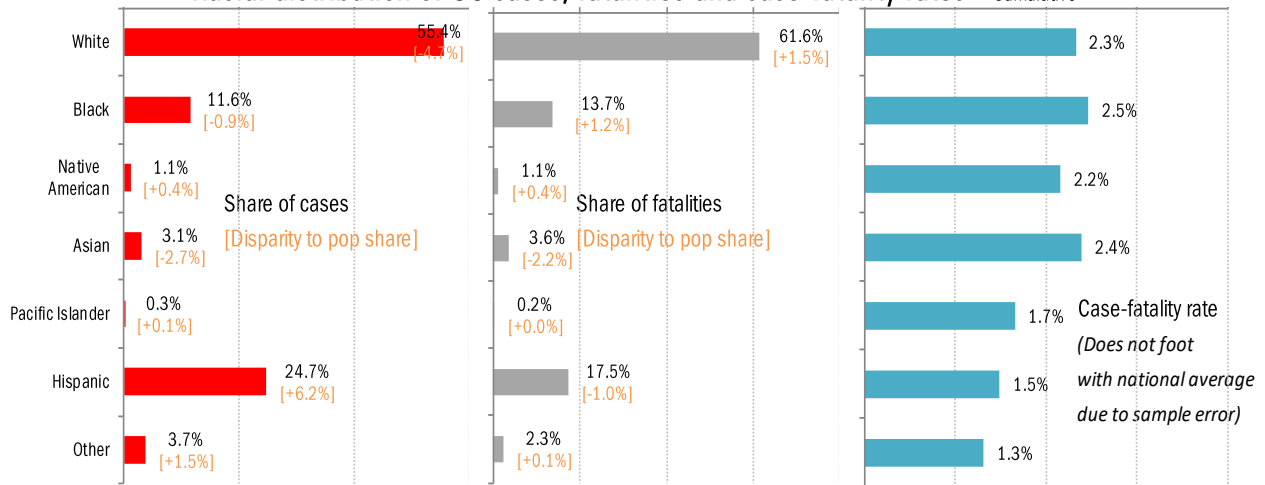


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

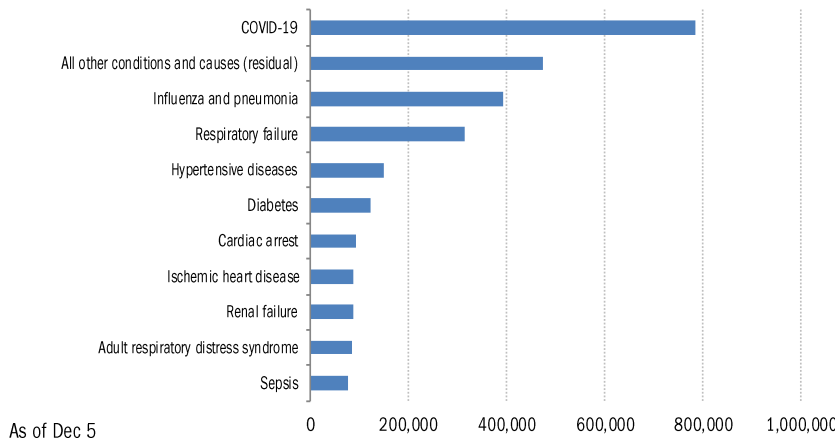


Racial distribution of US cases, fatalities and case-fatality rates



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

[Pfizer confirms its Covid pill can stave off severe cases and will likely work against Omicron.](#)

Carl Zimmer and Rebecca Robbins  
*New York Times*  
December 14, 2021

[Colorado governor declares COVID-19 emergency 'over' despite Omicron](#)

Jessica Chasmar  
*New York Post*  
December 13, 2021

[Conservatives Abandon Johnson Over New Covid Rules](#)

Mark Landler and Stephen Castle  
*New York Times*  
December 14, 2021

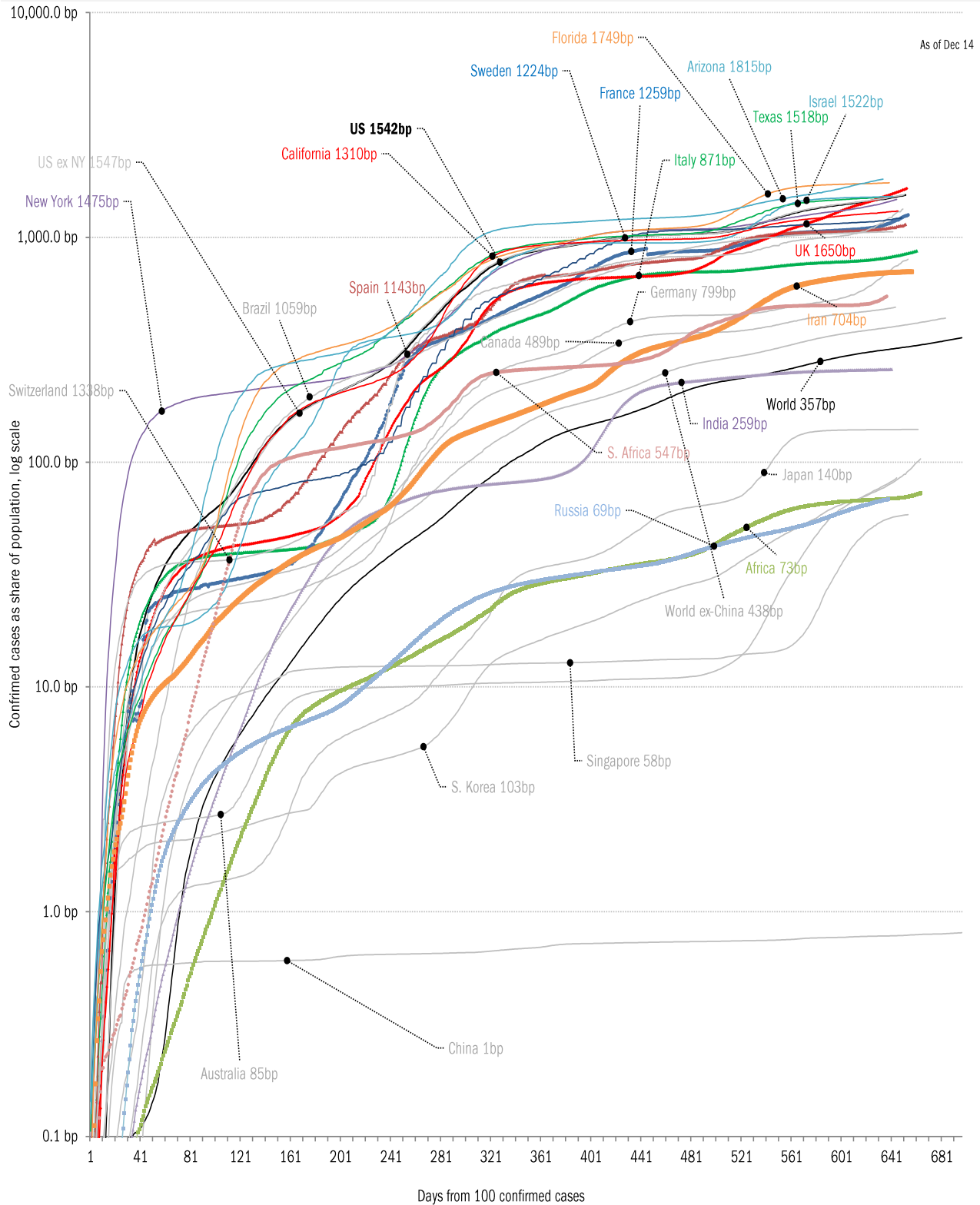
## Meme of the day

**San Francisco police are looking for any information about this man caught not wearing a mask in the supermarket.**



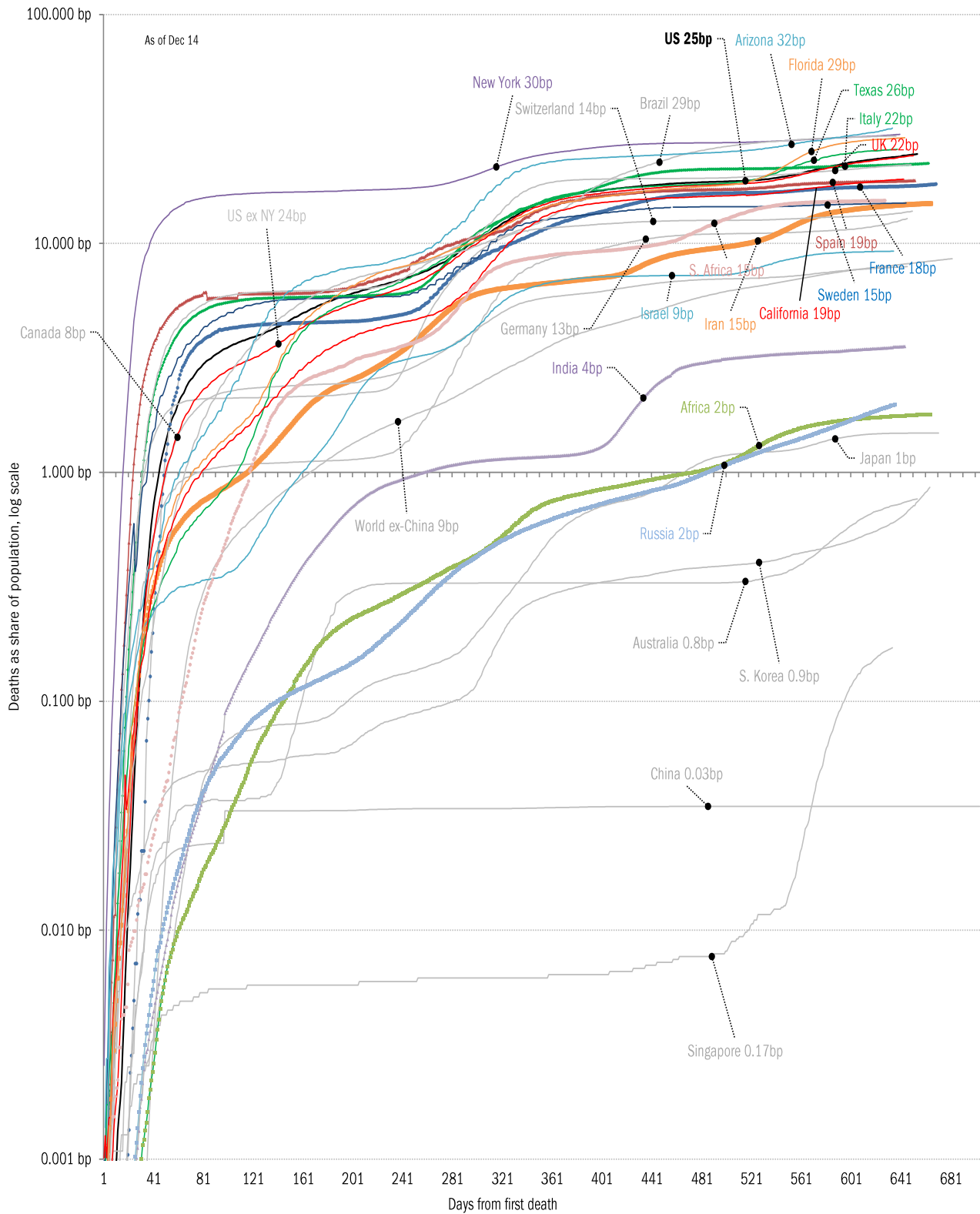
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



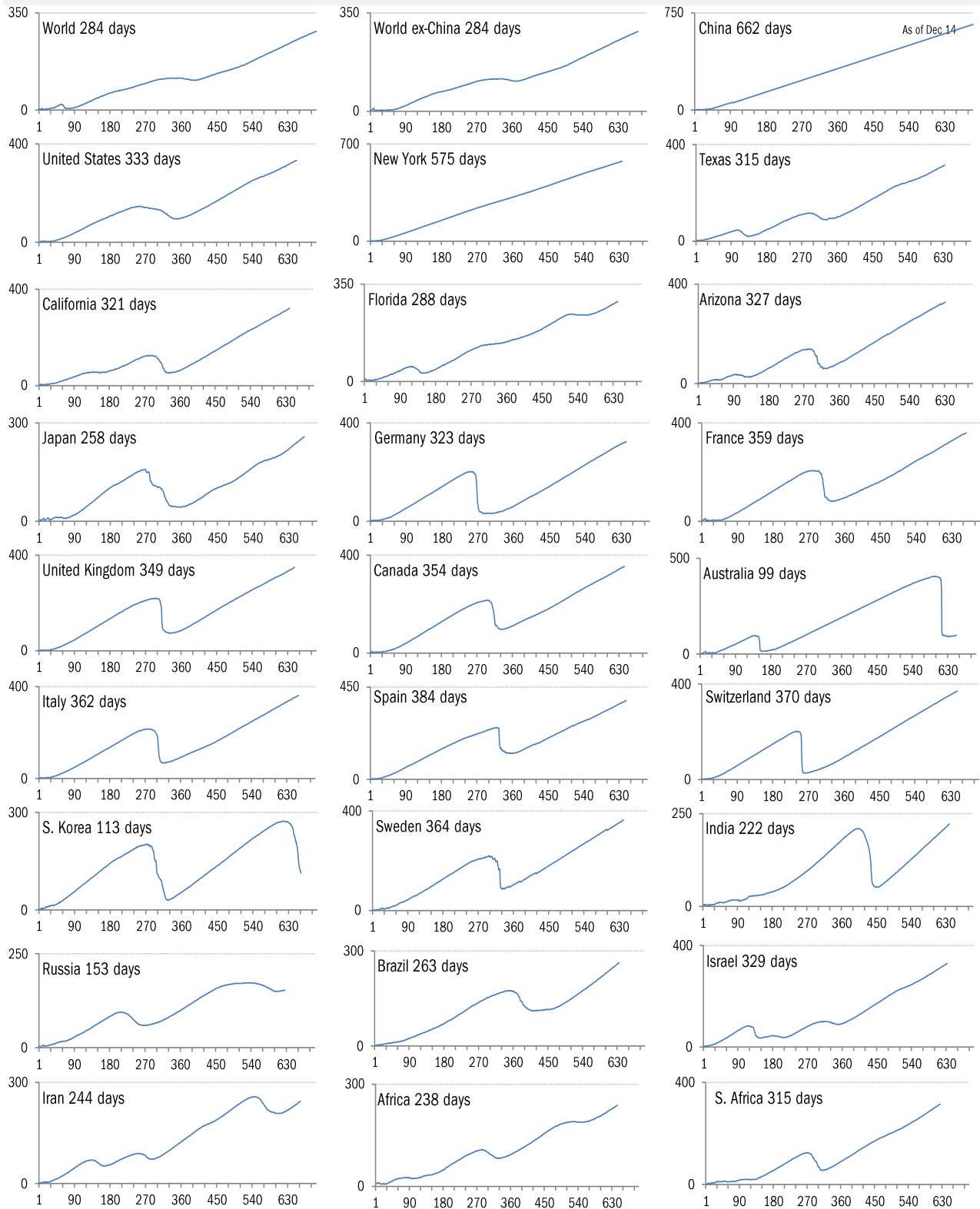
Source: [Johns Hopkins](#), TrendMacro calculations



# "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

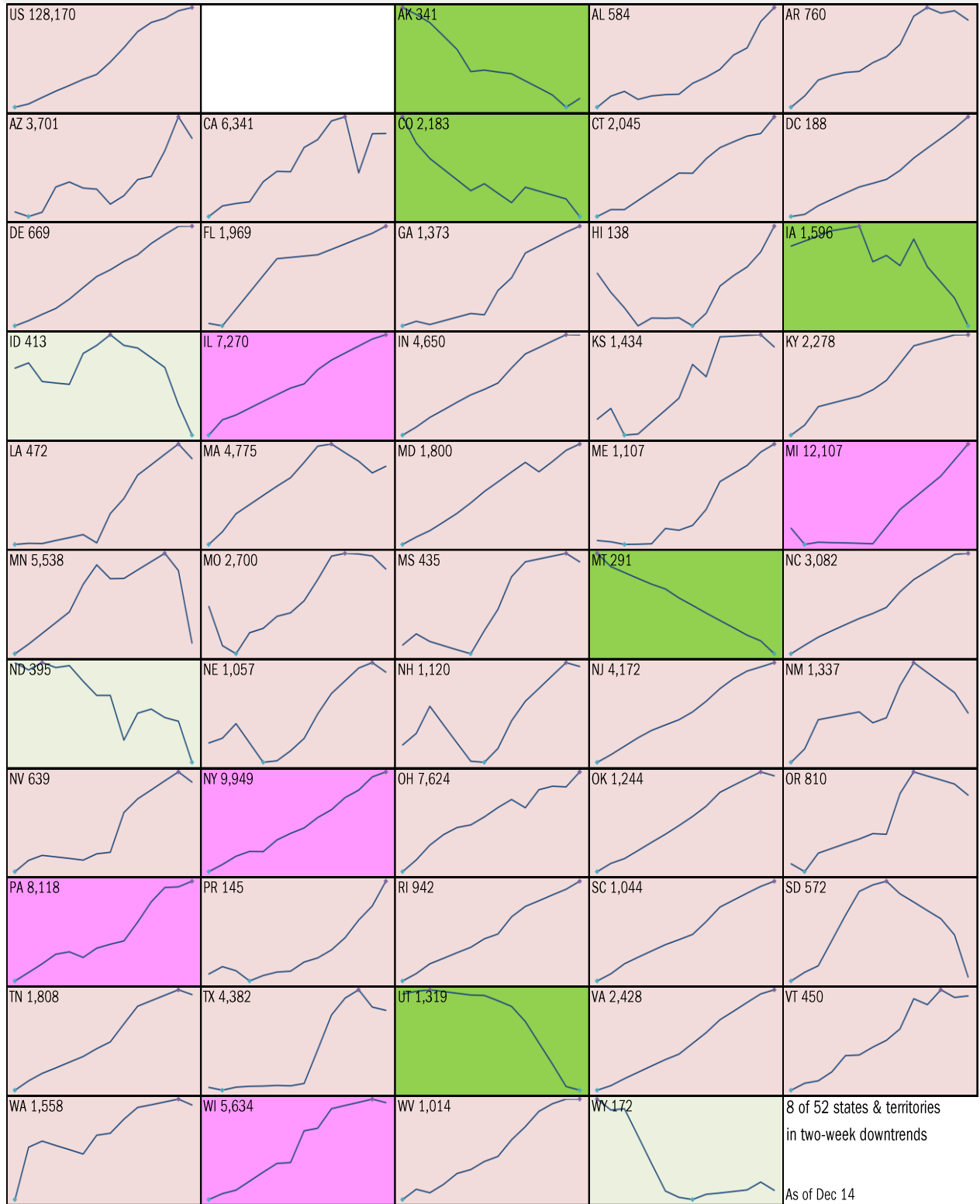


Source: [Johns Hopkins](#), TrendMacro calculations

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

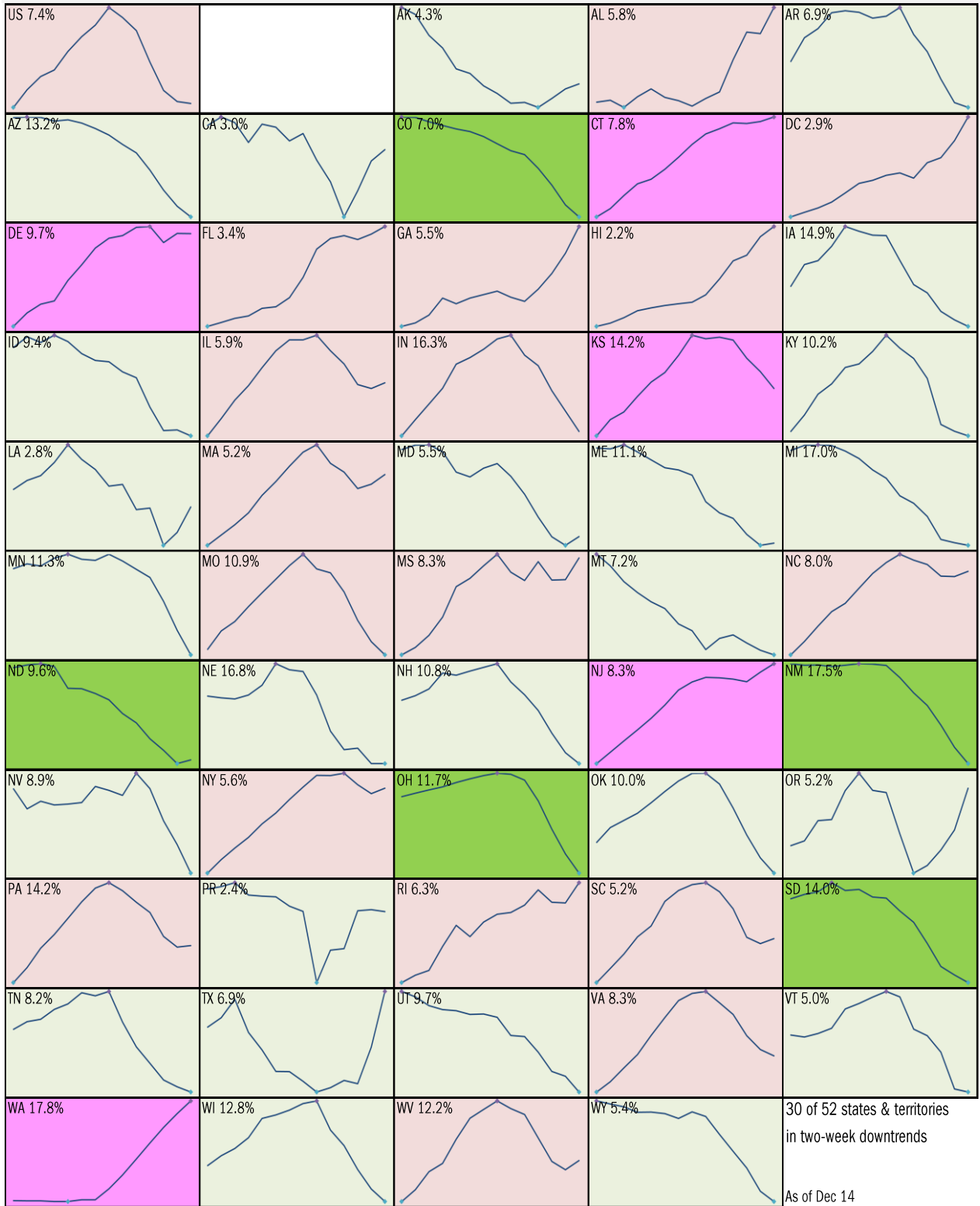


Source: [Johns Hopkins](#), TrendMacro calculations

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

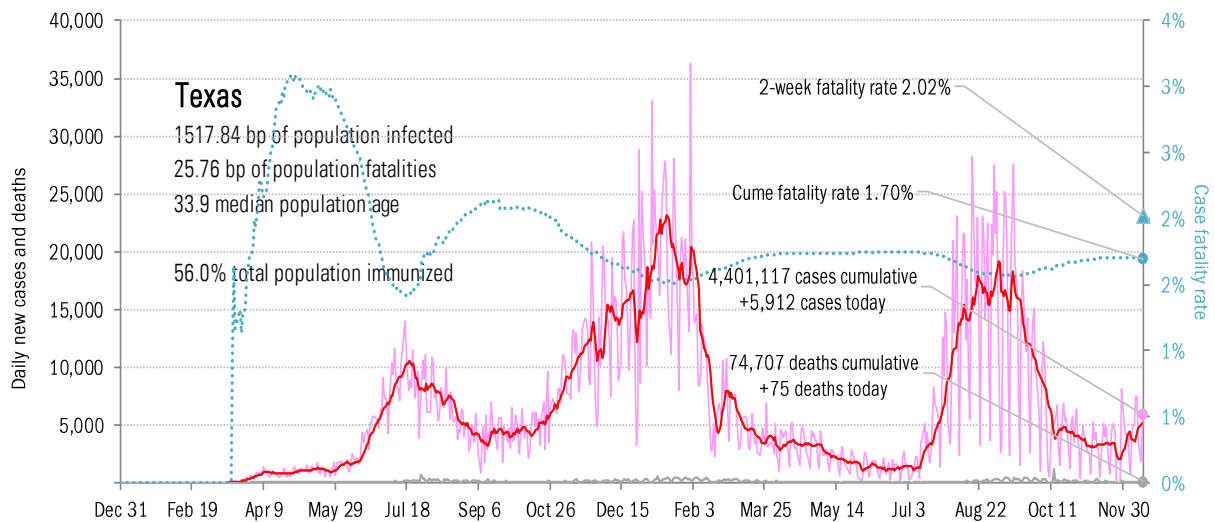
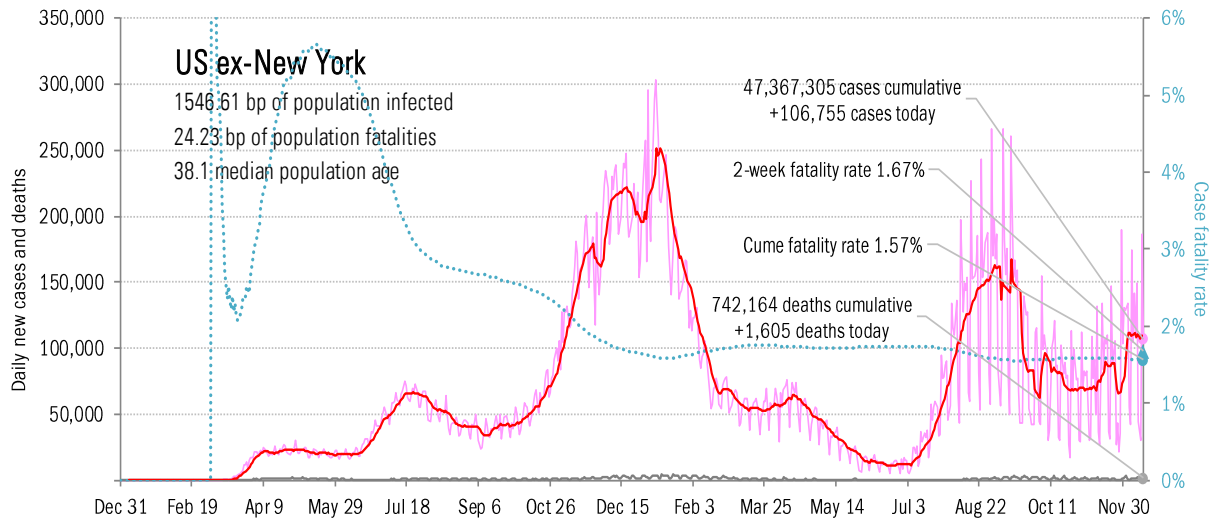
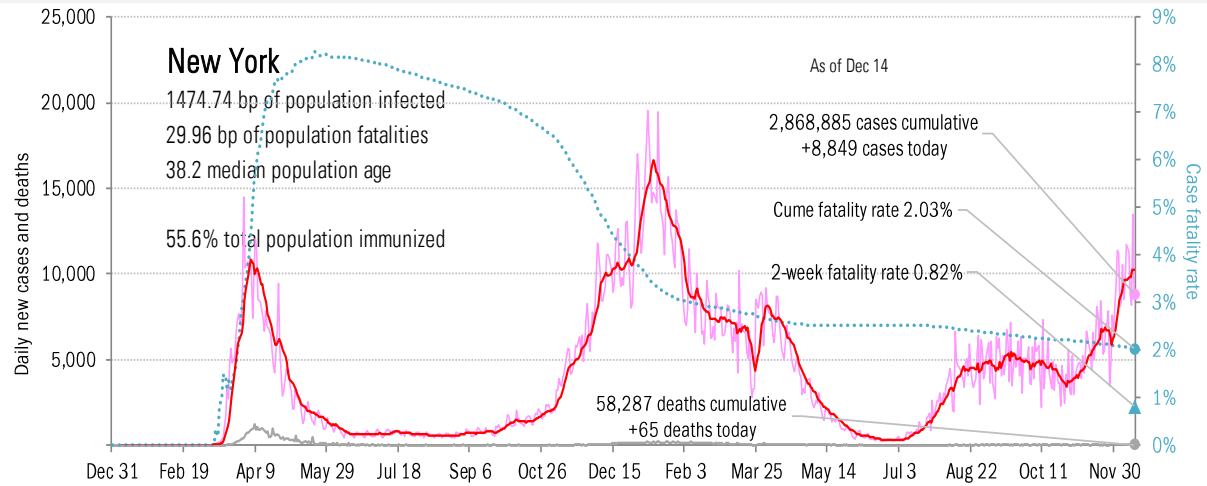
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

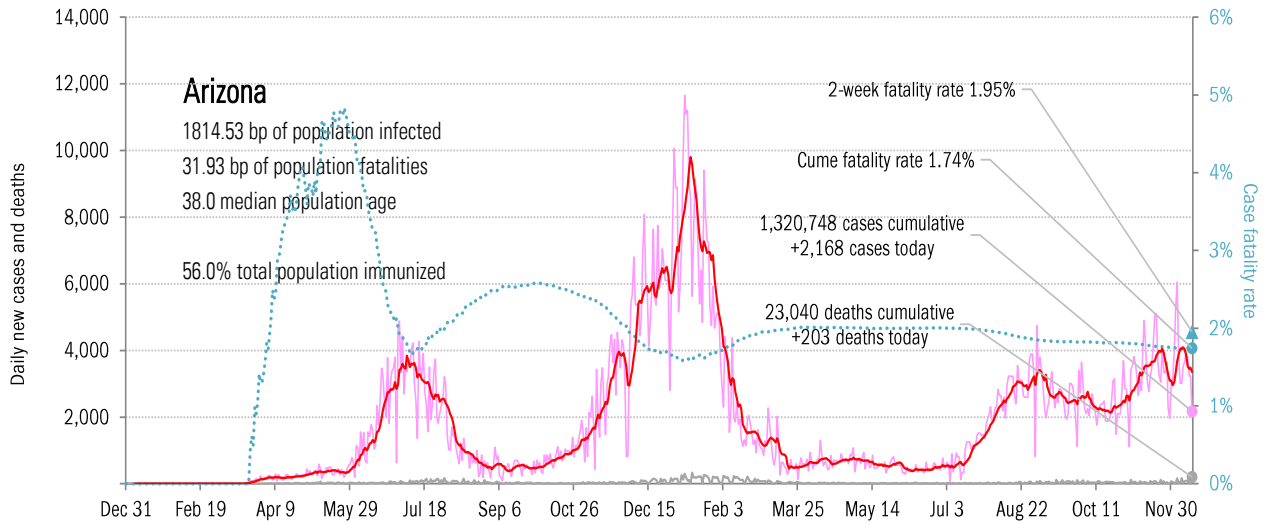
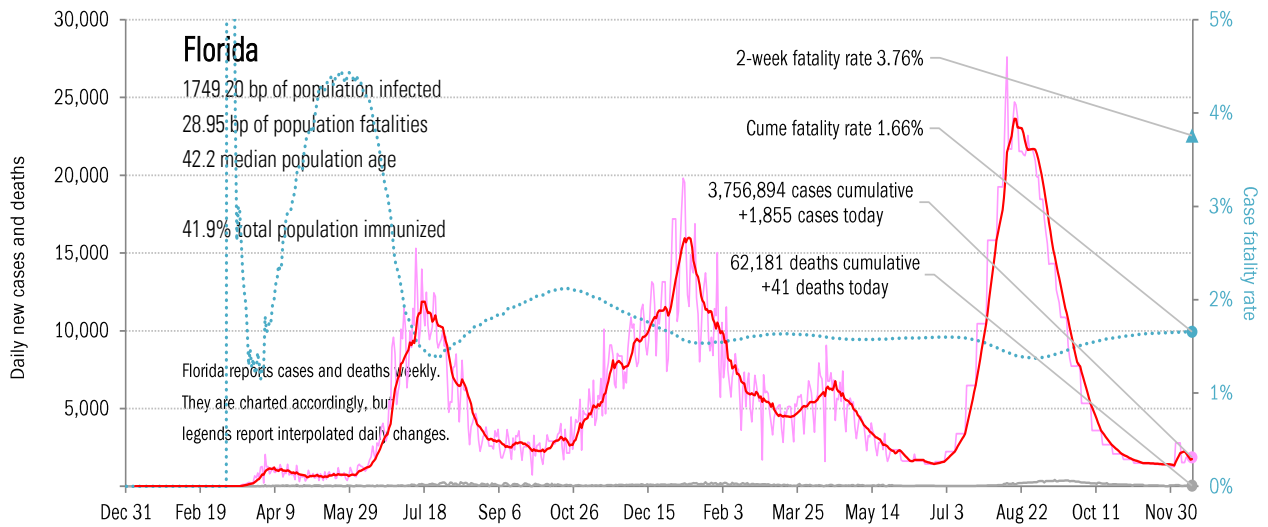
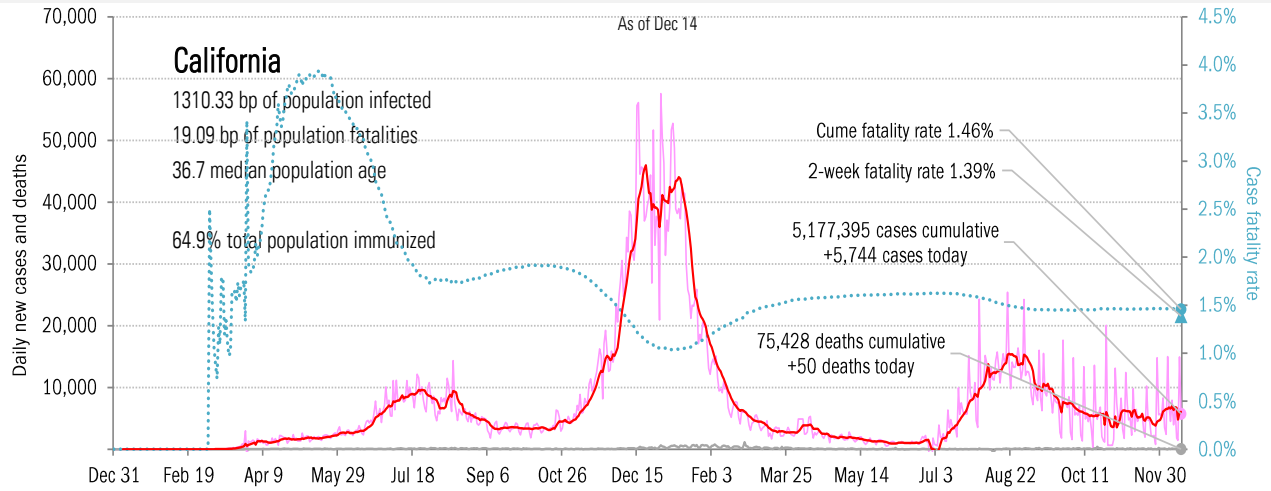
Cases: 7-day average and daily Deaths: Daily



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

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

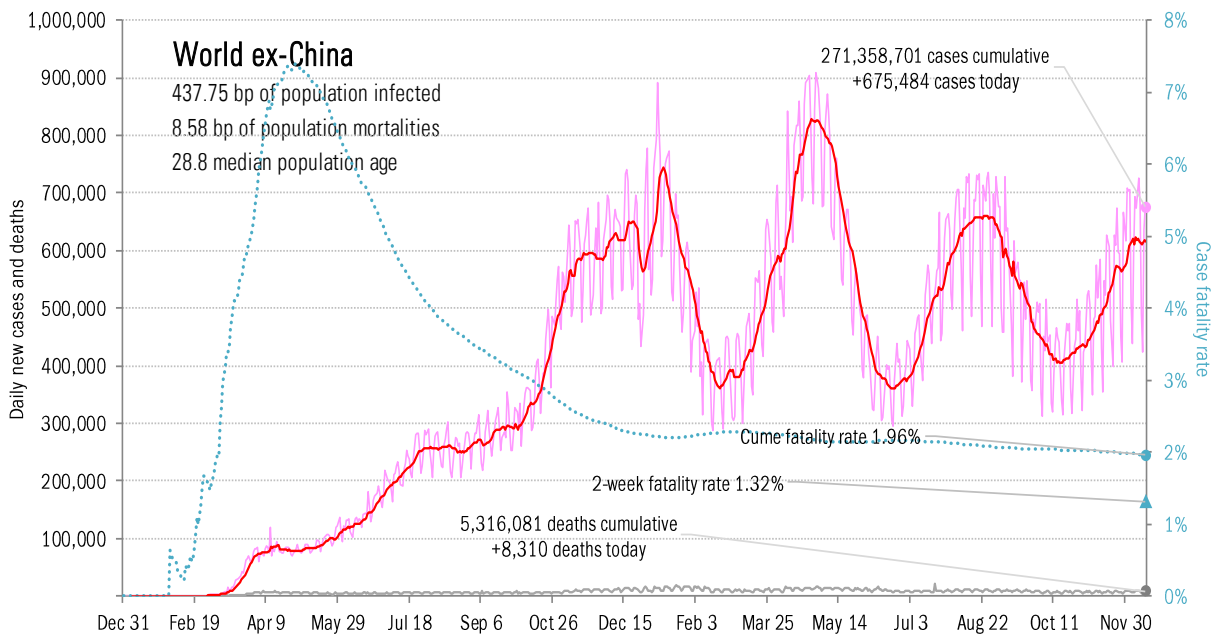
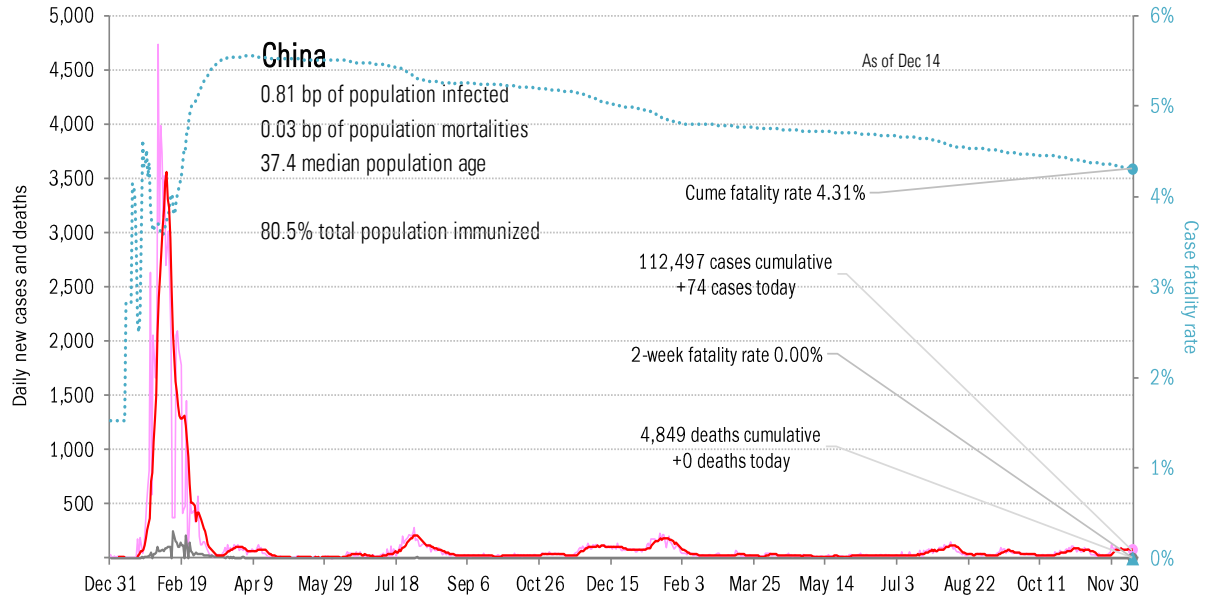
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

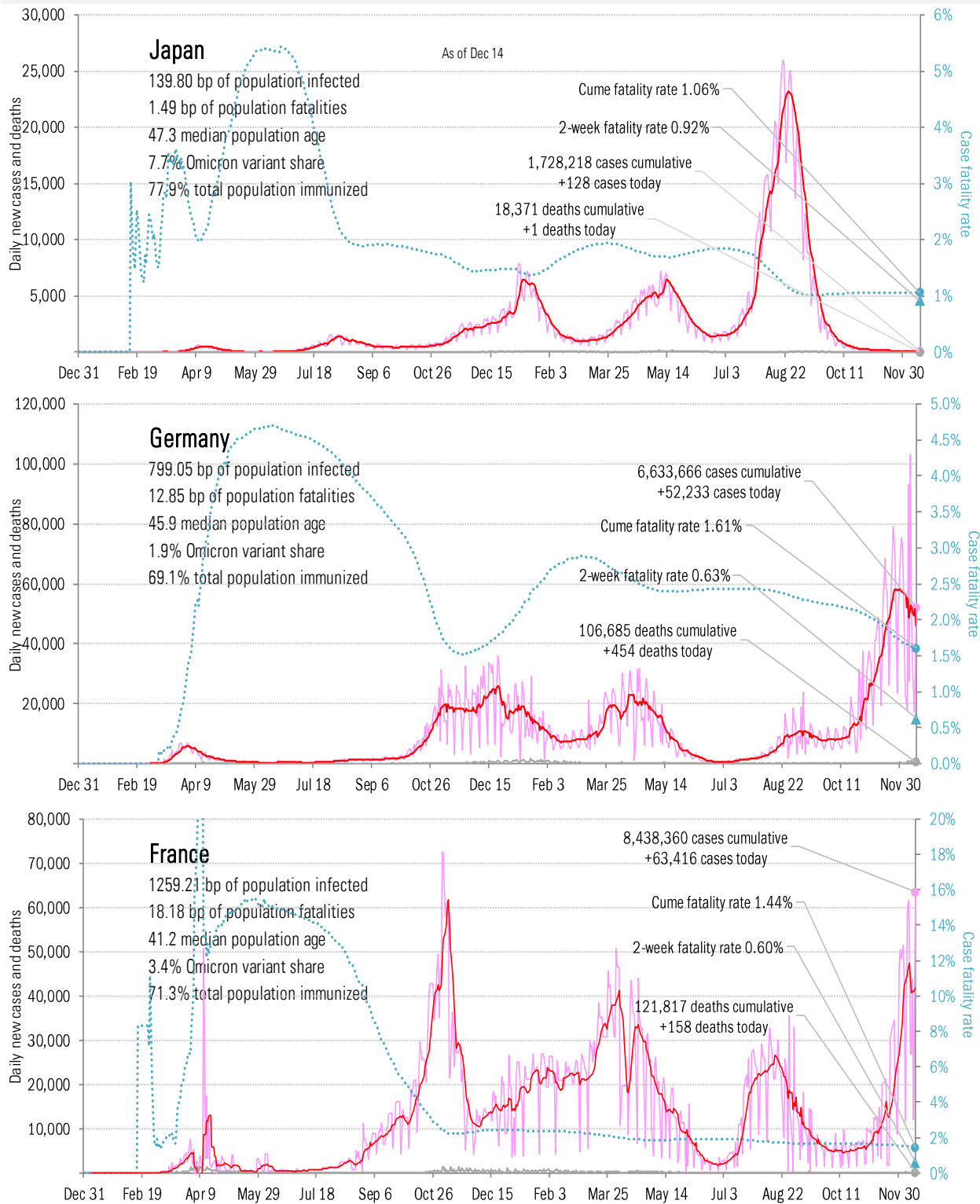
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

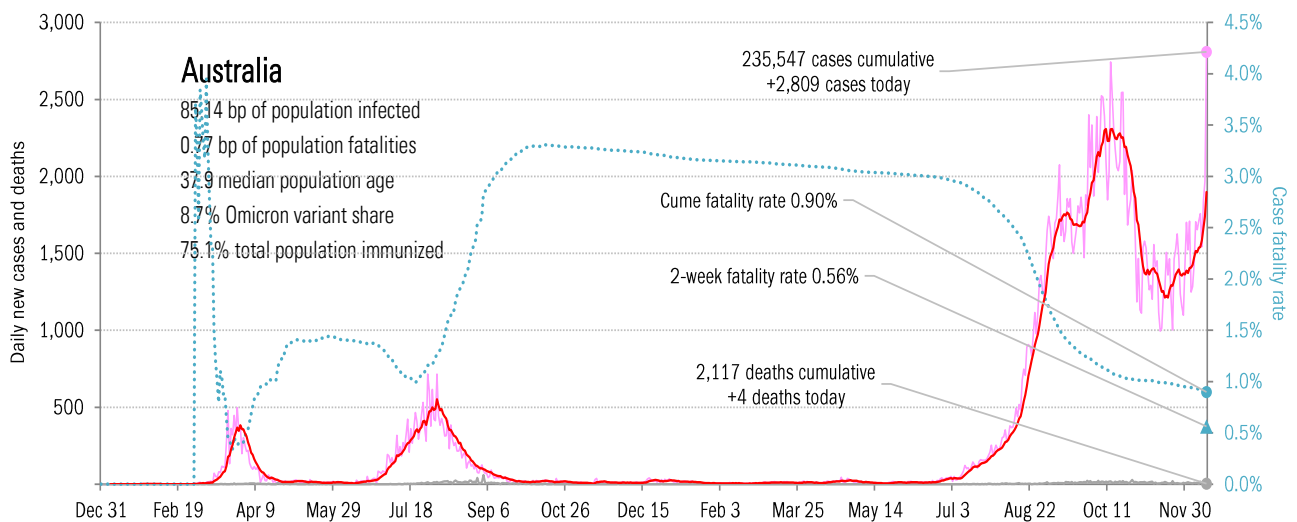
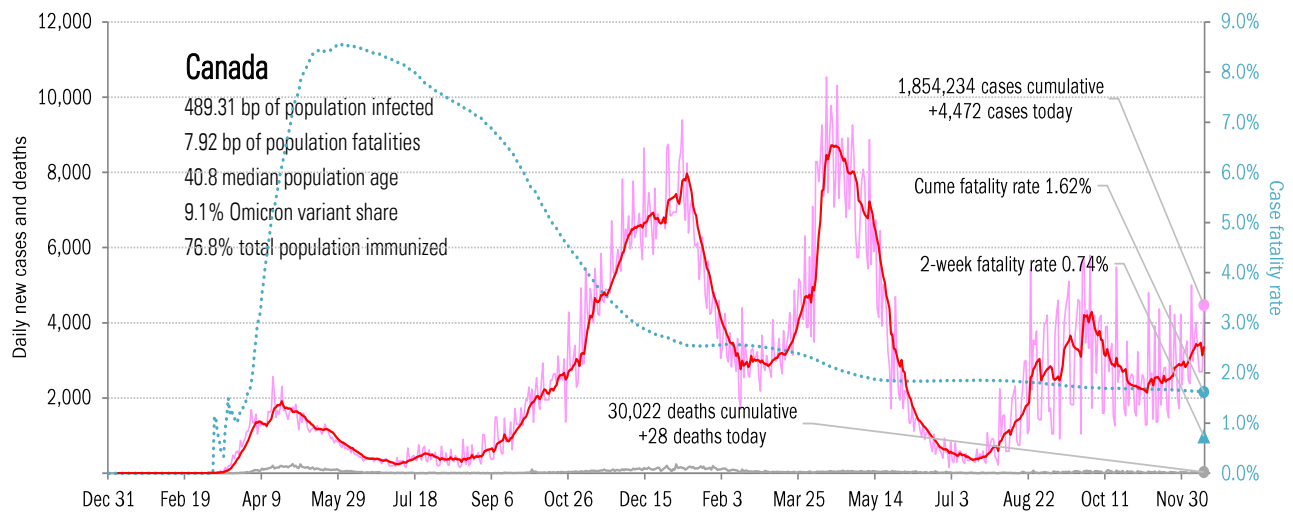
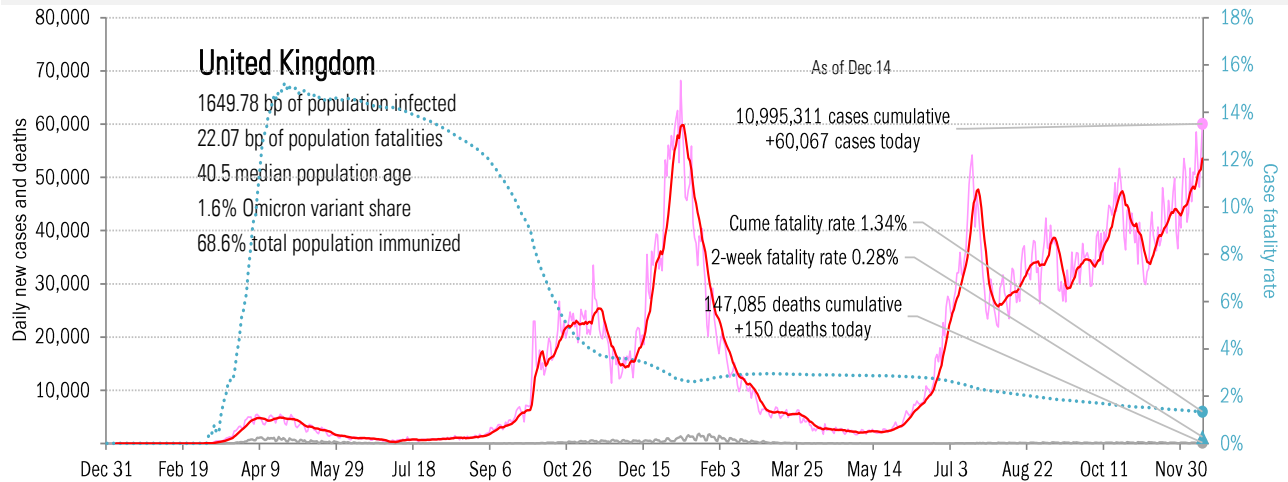
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

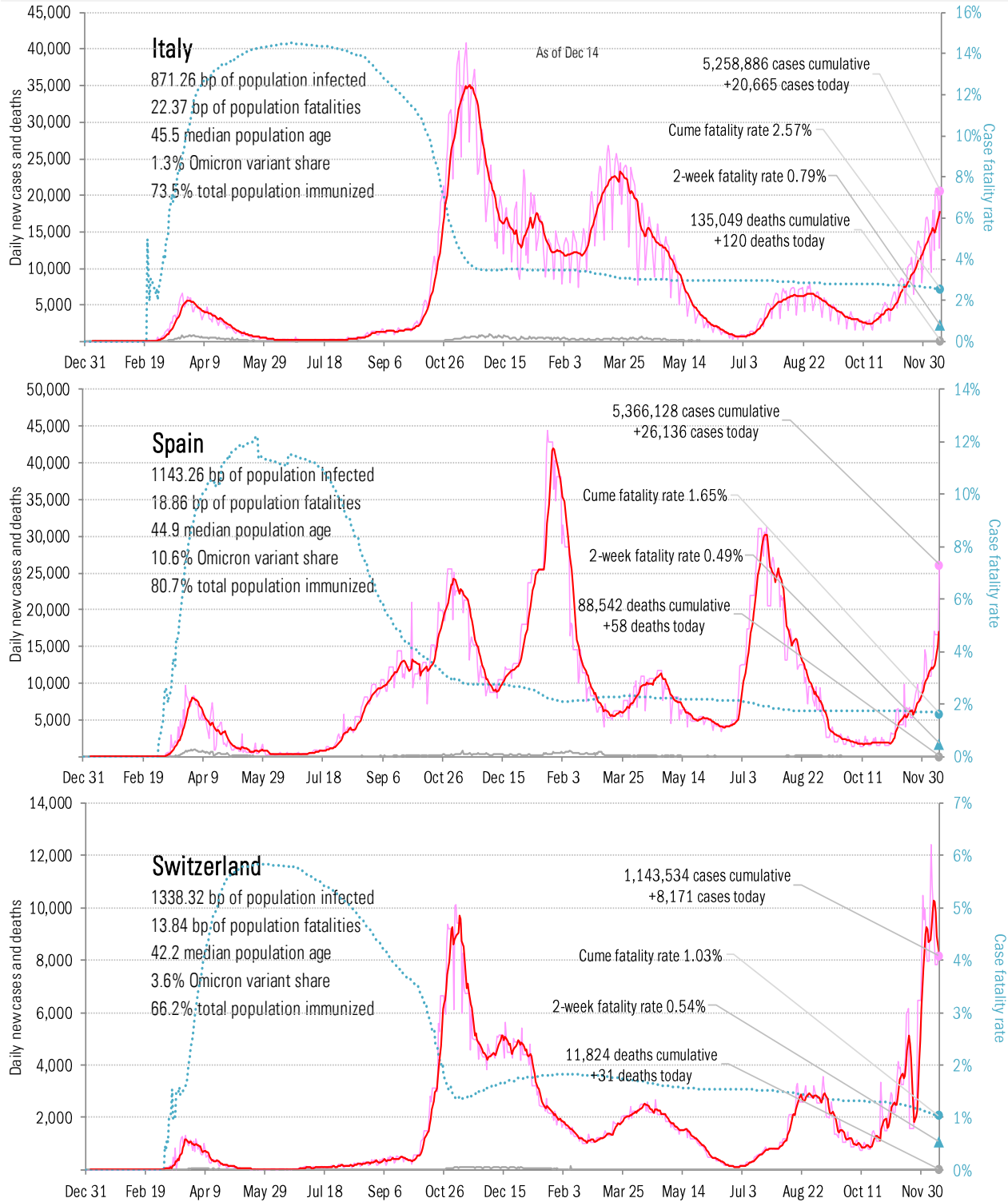


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

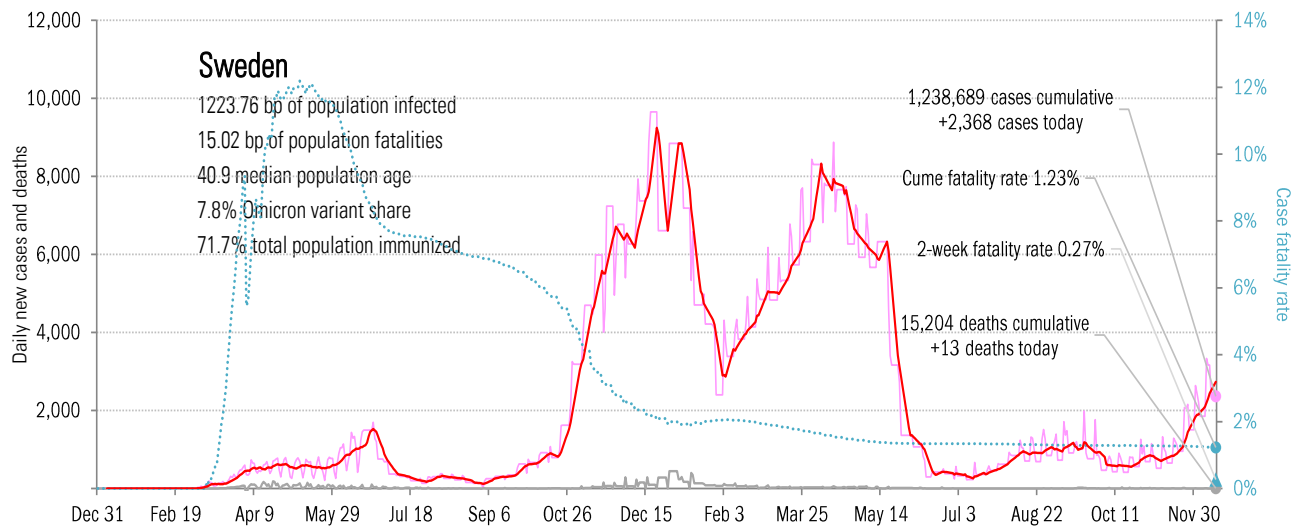
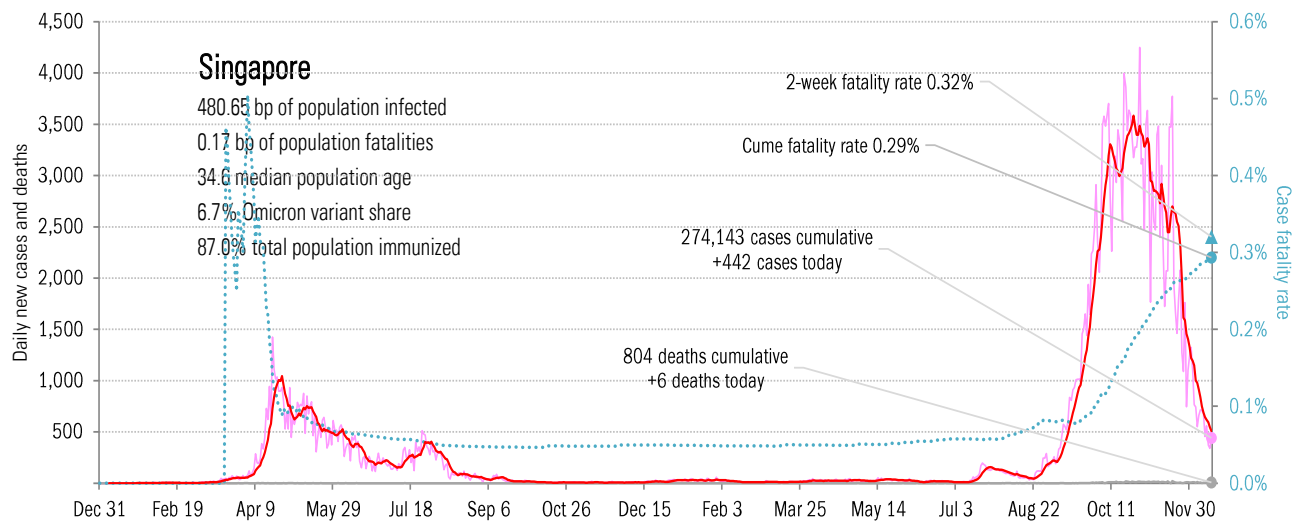
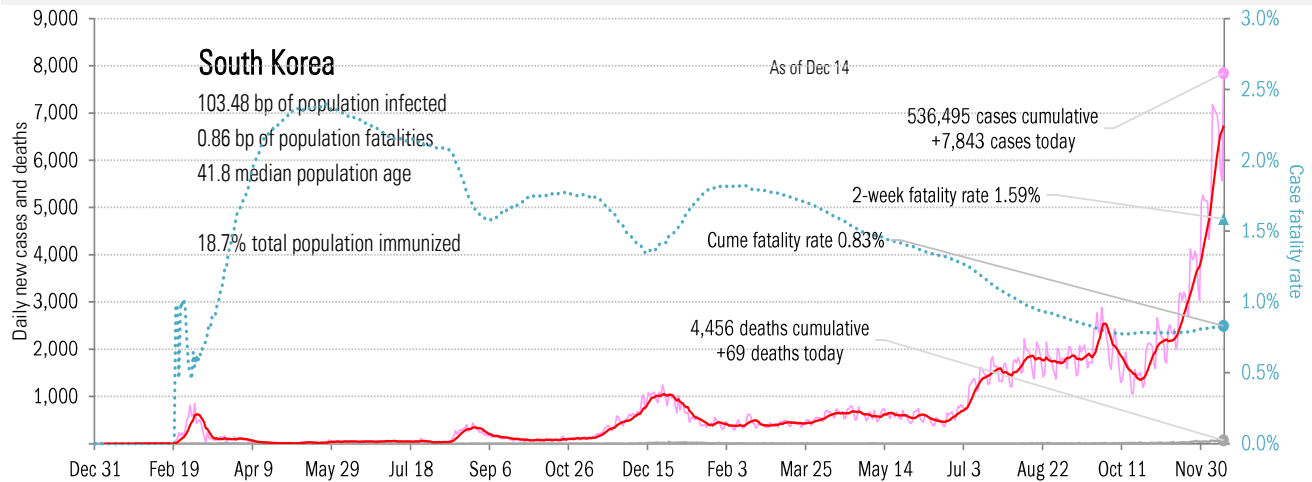
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

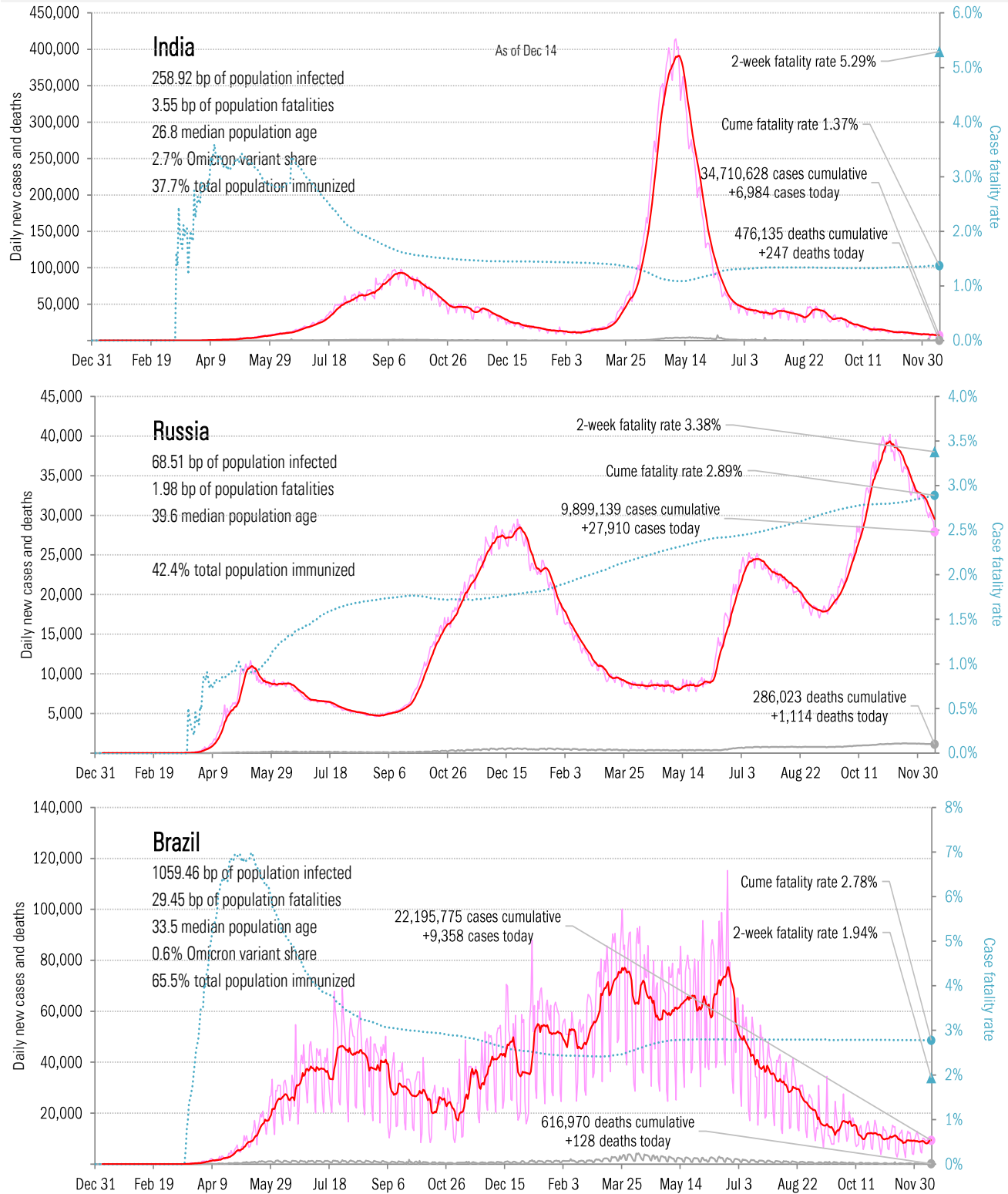
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

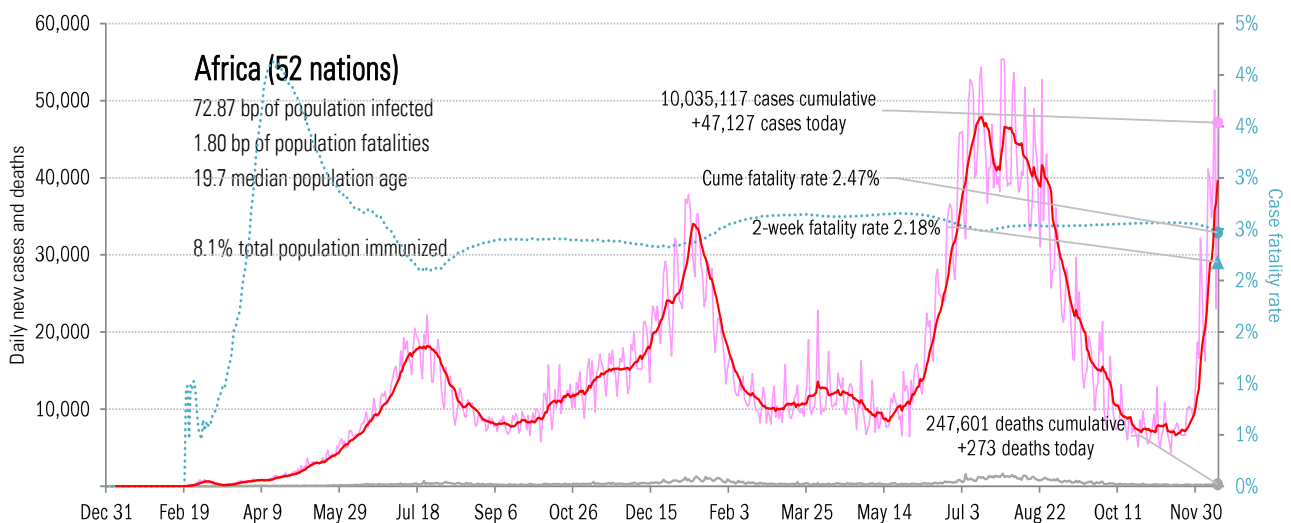
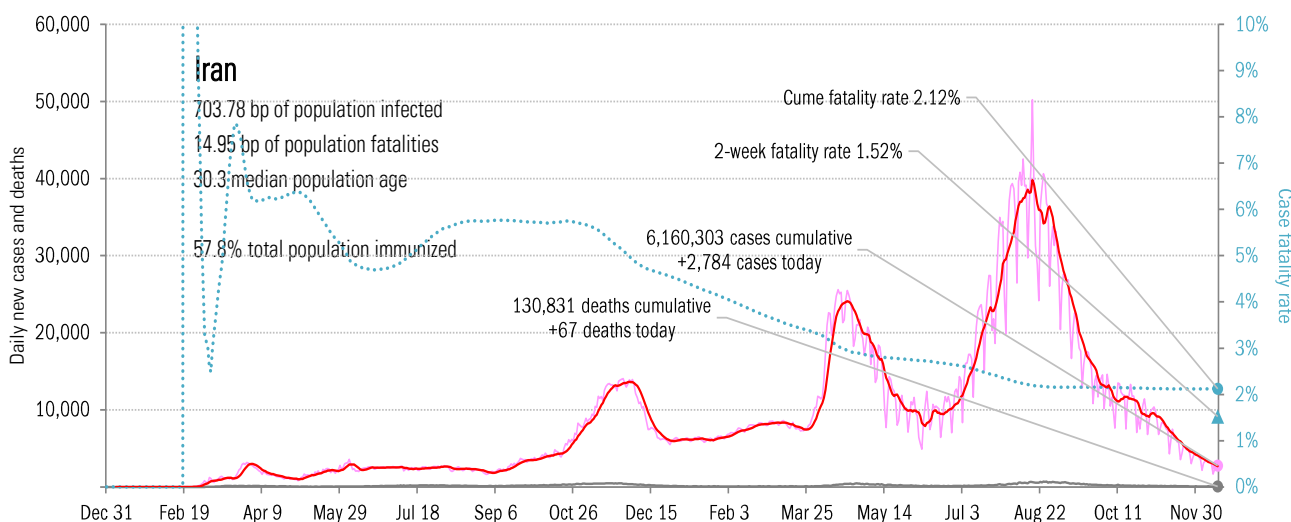
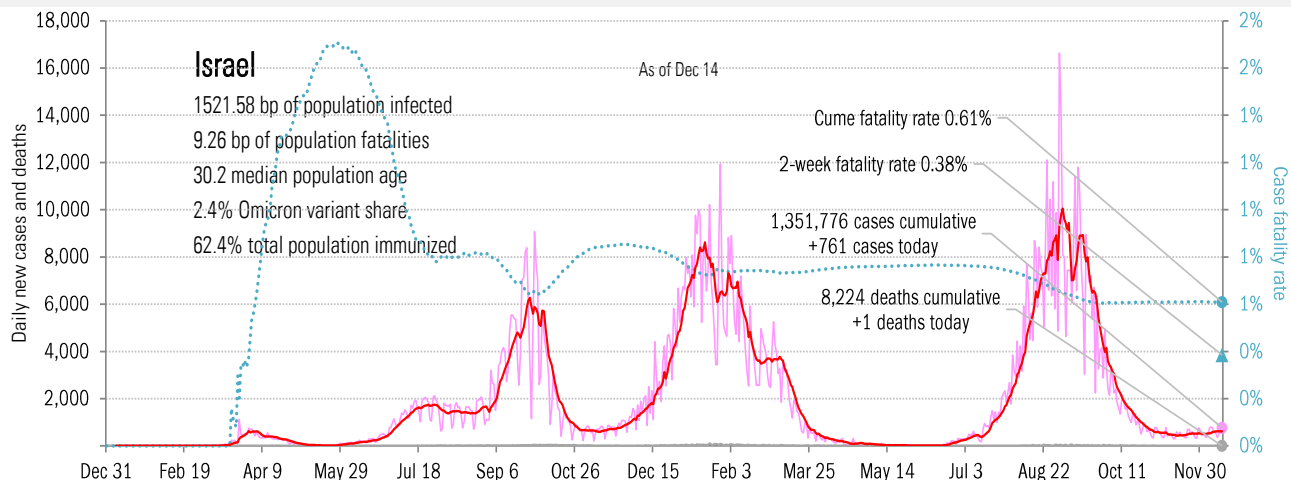
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

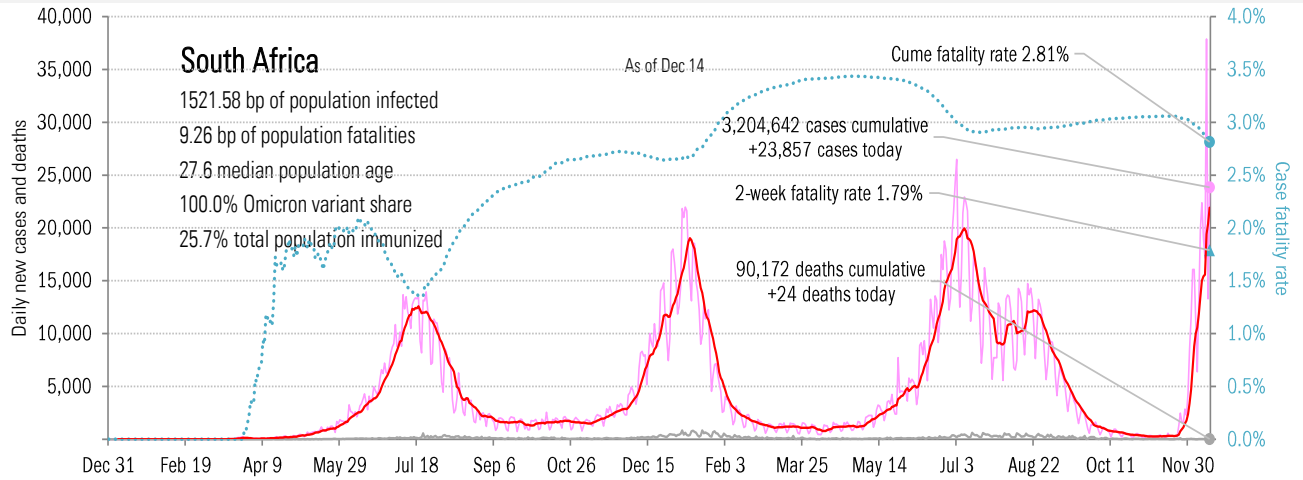
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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