

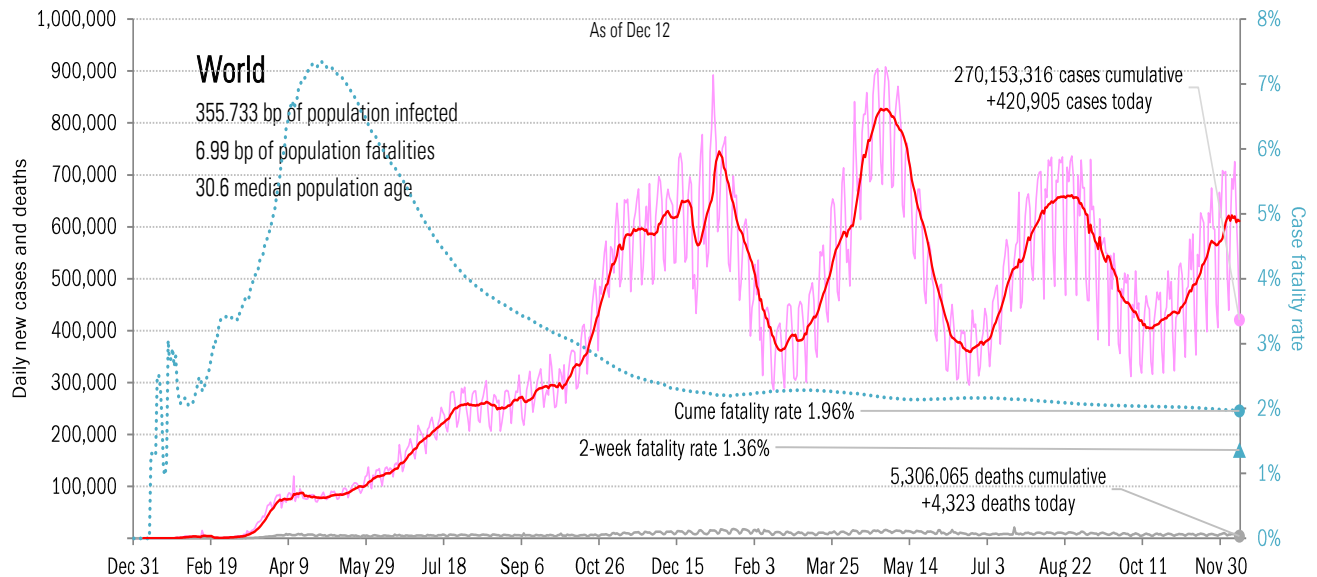
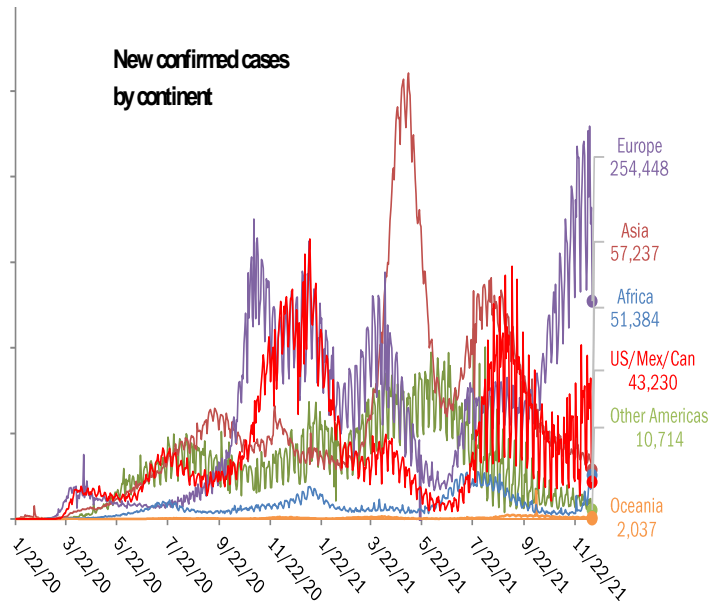
## Data Insights: Covid-2019 Monitor

Monday, December 13, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United Kingdom	+48,156	Russia	+1,102
France	+43,848	Ukraine	+268
United States	+38,673	Mexico	+235
South Africa	+37,875	Vietnam	+228
Russia	+29,483	United States	+213
Poland	+19,450	India	+202
Italy	+19,212	Philippines	+184
Turkey	+17,956	Turkey	+182
Germany	+17,116	Romania	+165
Netherlands	+16,636	Germany	+116
<b>+288,405</b>		<b>+2,895</b>	
World	+420,905	World	+4,323
Top ten	69%	Top ten	67%



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

### For more information contact us:

Donald Luskin: 214 550 2121 [don@trendmacro.com](mailto:don@trendmacro.com)  
 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

Cases: 7-day average and daily Deaths: Daily

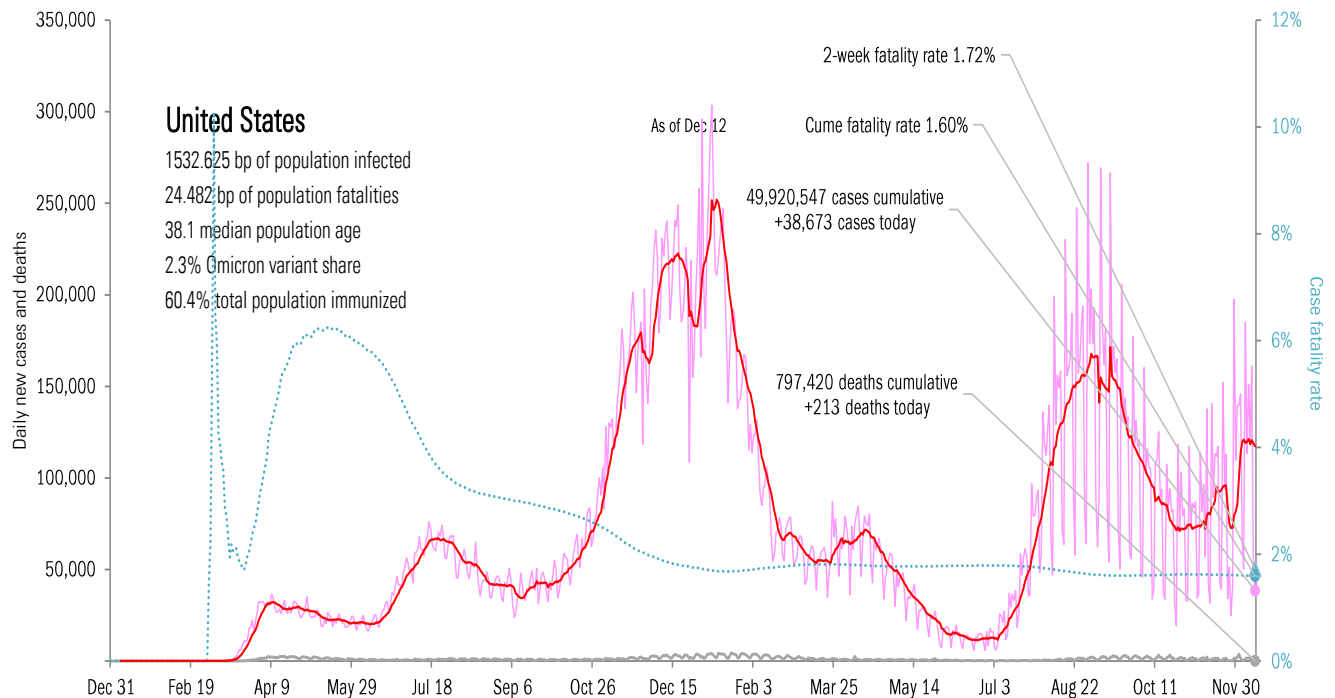
## The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use			
PA	+8,391		FL	+46		KY	+254		CA	5,156,692		CA	75,275		TX	389,283		RI	88%		KY	92%	
NY	+8,207		NY	+46		GA	+120		TX	4,390,761		TX	74,607		FL	325,797		MA	87%		RI	92%	
CH	+4,972		PA	+45		IL	+98		FL	3,753,184		FL	62,100		CA	325,137		MD	86%		NM	90%	
NJ	+3,842		TX	+29		CH	+91		NY	2,846,533		NY	58,168		NY	178,269		PA	85%		TX	88%	
AZ	+3,231		AZ	+15		PA	+90		IL	1,884,744		PA	34,616		GA	164,754		AZ	84%		MI	87%	
FL	+1,855		AR	+8		NJ	+77		PA	1,837,742		GA	30,823		CH	142,423		MO	84%		MO	87%	
TX	+1,838		NJ	+8		IN	+76		CH	1,781,411		IL	29,234		PA	133,263		MI	84%		NE	86%	
MO	+1,768		CA	+5		MO	+74		GA	1,678,746		NJ	28,576		KY	117,031		ND	83%		OK	86%	
CA	+1,459		HI	+5		MI	+60		MI	1,567,578		CH	27,371		IL	115,690		CT	82%		MA	85%	
VV	+880		VT	+3		NY	+56		NC	1,566,269		MI	26,914		MI	109,761		WA	82%		AZ	85%	
<b>+36,443</b>			<b>+210</b>			<b>+996</b>			<b>26,463,660</b>			<b>447,684</b>			<b>2,001,408</b>								
All states	+38,673			+213			+1501		All states	49,920,547			797,420			3,608,374		All states	70%			67%	
Top ten	94%			99%			66%		Top ten	53%			56%			55%		Median	77%			80%	

Some states not reporting

## Five most improved US states

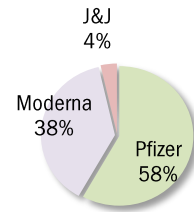
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CH	-3,100	PA	-111	UT	-30	VT	+30 bp
PA	-2,661	AZ	-59	TX	-28	CA	+20 bp
TX	-1,798	AL	-22	WI	-28	CO	+20 bp
ME	-1,015	CA	-18	MD	-23	IL	+20 bp
NE	-923	NJ	-17	NH	-17	MA	+20 bp



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	497,122,885		+1.520 million		US	60.4%	72.0%	
Boosters	54,687,308		+0.895 million		UK	68.5%	75.2%	
	One dose	% Pop	Immune	% pop	New immune today	France	70.8%	77.3%
Total population	244,931,976	73%	207,088,694	62%	+0.289 million	Spain	80.7%	82.3%
Age 12 to 17	14,886,781	62%	12,498,260	52%	+0.016 million	Germany	69.0%	72.0%
Age 18 to 64	165,857,520	81%	141,740,050	70%	+0.100 million	Italy	73.4%	78.9%
Age 65 and over	57,751,808	100%	49,410,865	90%	+0.018 million	Australia	74.7%	78.4%



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



Every American >18 immunized in **77 days** by Feb 26, 2022  
 73.9% of population >18 immunized  
 17.6% previously tested positive  
**91.4%** vs 60% adult herd immunity

Israel	62.3%	69.0%
Canada	76.7%	81.8%
Japan	77.8%	79.4%
Africa	8.0%	12.3%
India	36.9%	58.6%
Brazil	65.2%	77.2%
China	80.5%	84.8%

Global data differs due to sources, timing

AK
64.0%
55.4%

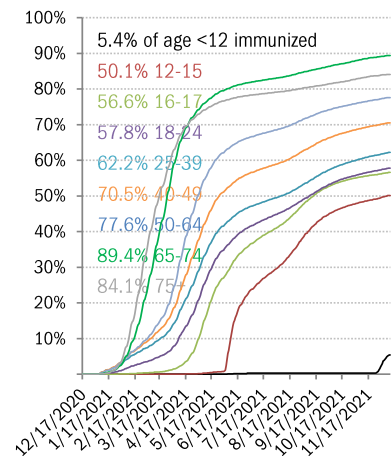
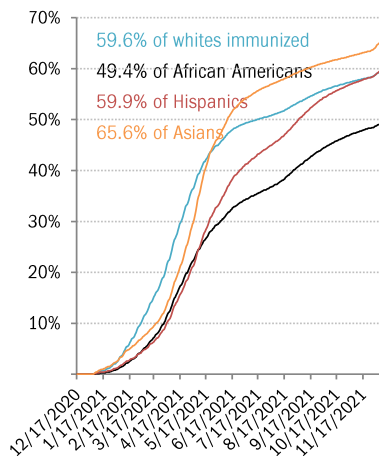
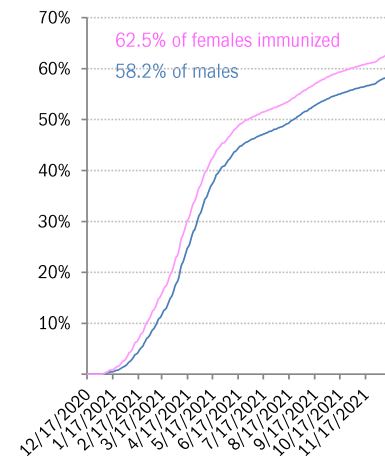
WI
67.0%
60.9%

As of Dec 12

ME
83.6%
74.1%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
74.1%	51.5%	60.9%	61.0%	70.3%	70.7%	62.3%	81.0%	87.2%	91.8%	
66.5%	45.8%	52.9%	51.5%	64.2%	63.2%	55.8%	70.4%	75.2%	65.6%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
72.7%	67.8%	54.7%	68.9%	63.6%	56.8%	59.4%	83.9%	81.1%	87.9%	
65.4%	55.5%	46.4%	55.9%	57.9%	51.4%	54.3%	60.1%	69.2%	73.1%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
80.6%	65.9%	72.9%	65.1%	61.1%	61.4%	89.0%	77.1%	78.4%	86.0%	85.7%
64.8%	57.1%	65.0%	58.7%	52.1%	53.4%	71.0%	66.7%	69.2%	73.5%	74.8%
AZ	NM	KS	AR	TN	NC	SC	DC	DE		
65.7%	78.6%	67.6%	61.7%	57.7%	73.0%	61.5%	84.6%	74.8%		
55.9%	65.0%	55.9%	50.4%	50.3%	55.5%	52.3%	66.1%	62.8%		
OK	LA	MS	AL	GA						
64.3%	56.4%	54.7%	57.5%	60.0%						
52.5%	49.5%	47.5%	46.9%	49.9%						
TX										
65.2%										
55.8%										
HI							FL		PR	
83.5%							73.0%		86.5%	
62.3%							62.4%		75.2%	

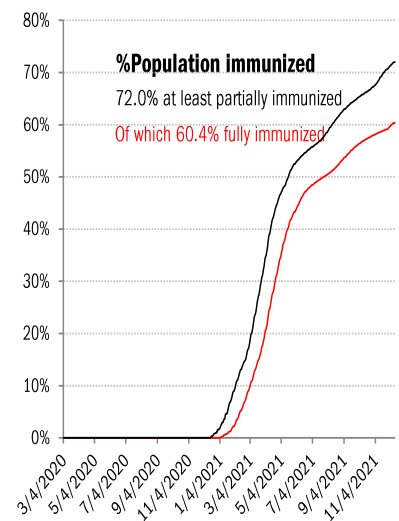
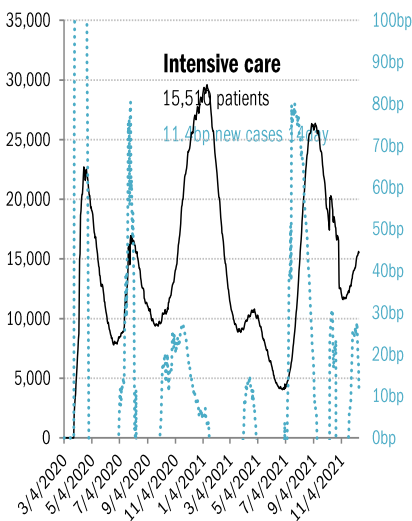
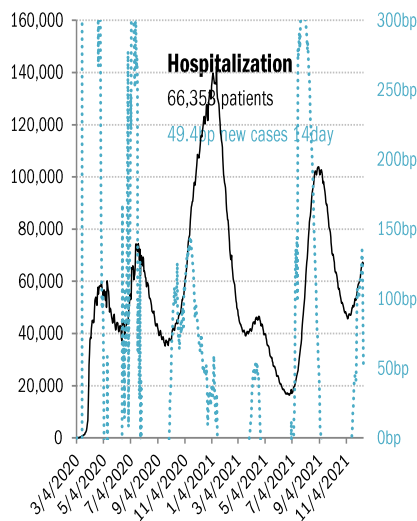
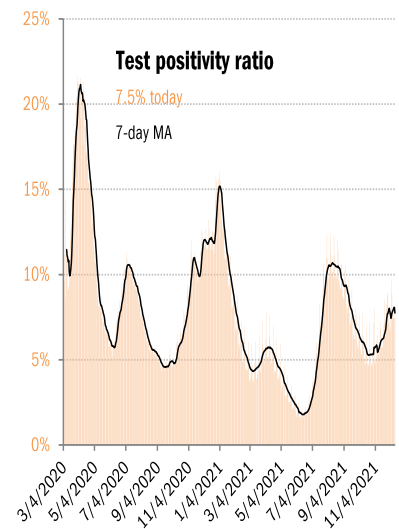
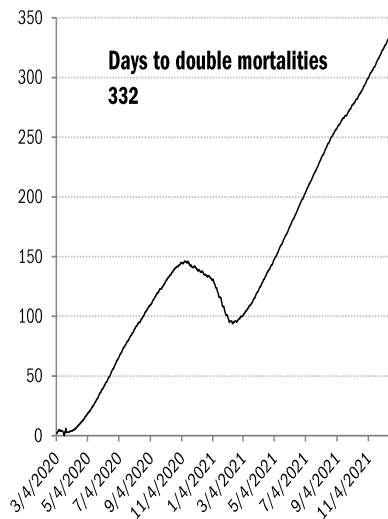
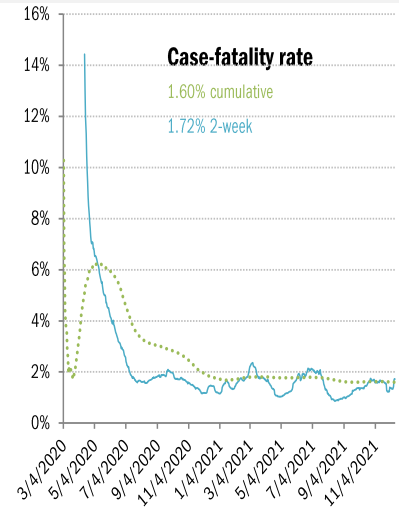
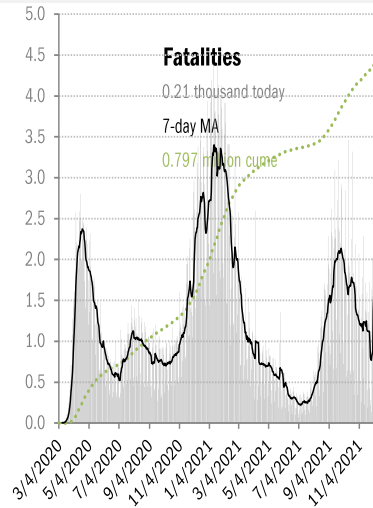
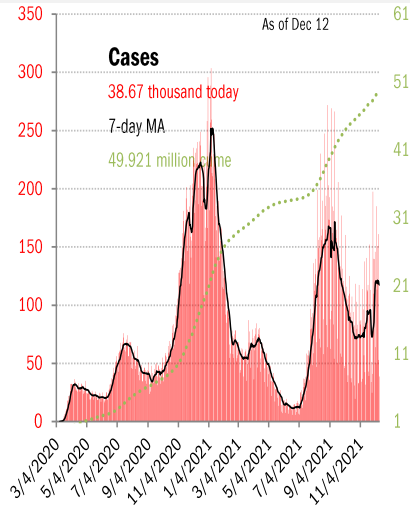
## The demographics of US vaccination



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

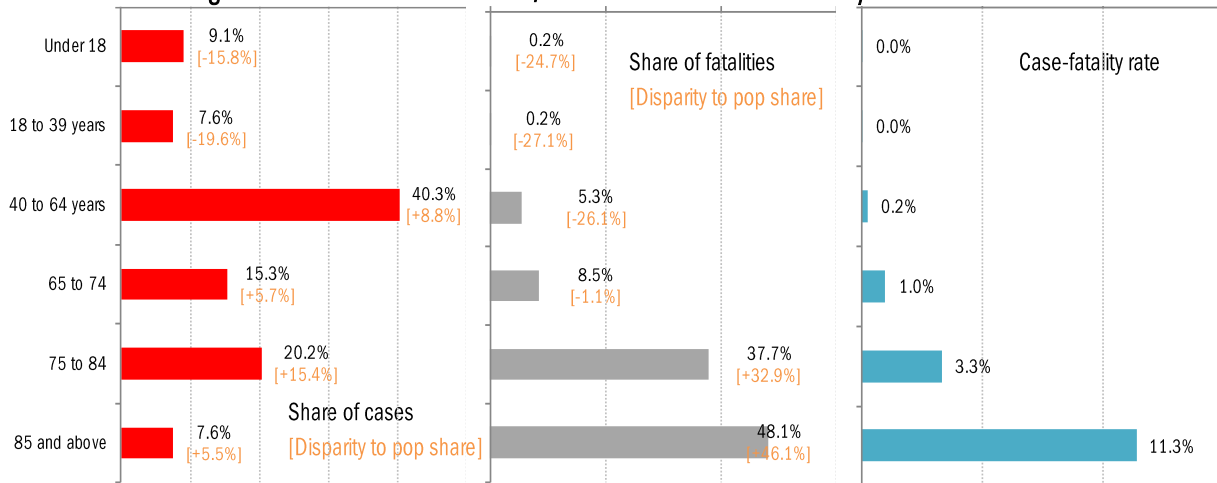
# US deep-dive

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

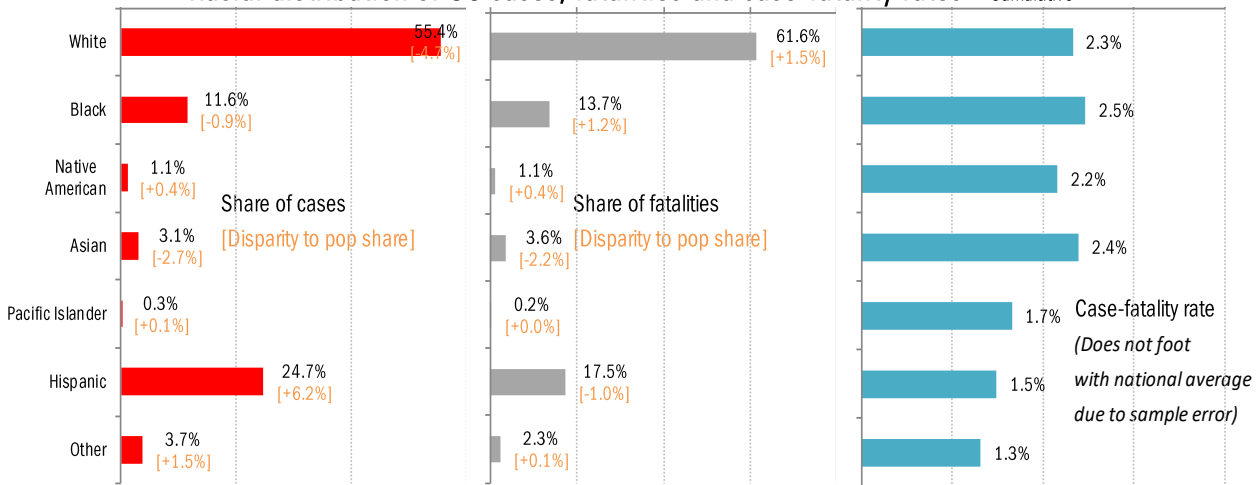


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

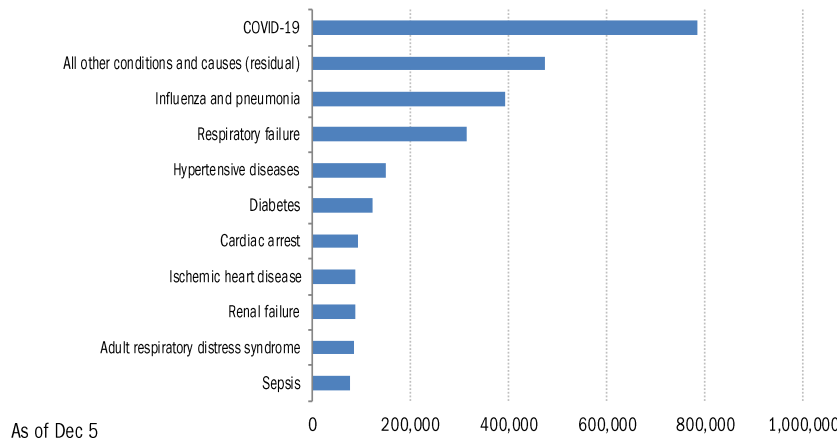


Racial distribution of US cases, fatalities and case-fatality rates



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

### [Will the Coronavirus Evolve to Be Milder?](#)

Andrew Pekosz  
*New York Times*  
December 10, 2021

### [We Can Live Better Lives While Being Smart About Covid](#)

*New York Times*  
December 11, 2021

### [Covid: The Path not Taken](#)

Peter McCullough  
*DarkHorse Podcast*  
December 6, 2021

### [South Africa's president tests positive for the coronavirus.](#)

Lynsey Chutel  
*New York Times*  
December 12, 2021

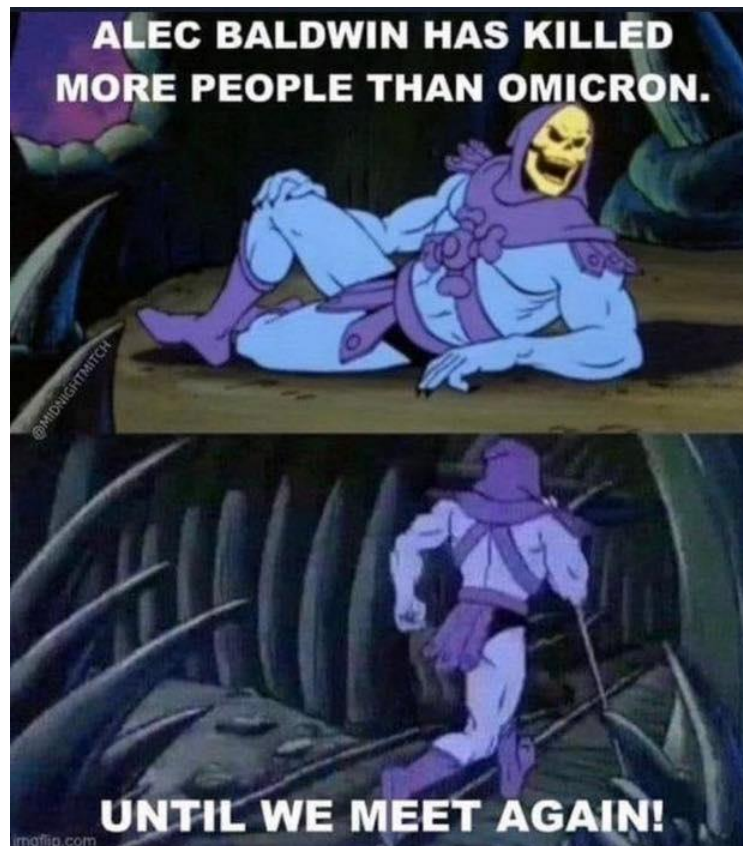
### [That Big Office Building? It's an E-Commerce Warehouse Now.](#)

Chip Cutter and Konrad Putzier  
*Wall Street Journal*  
December 10, 2021

### [Emerging SARS-CoV-2 variants: shooting the messenger](#)

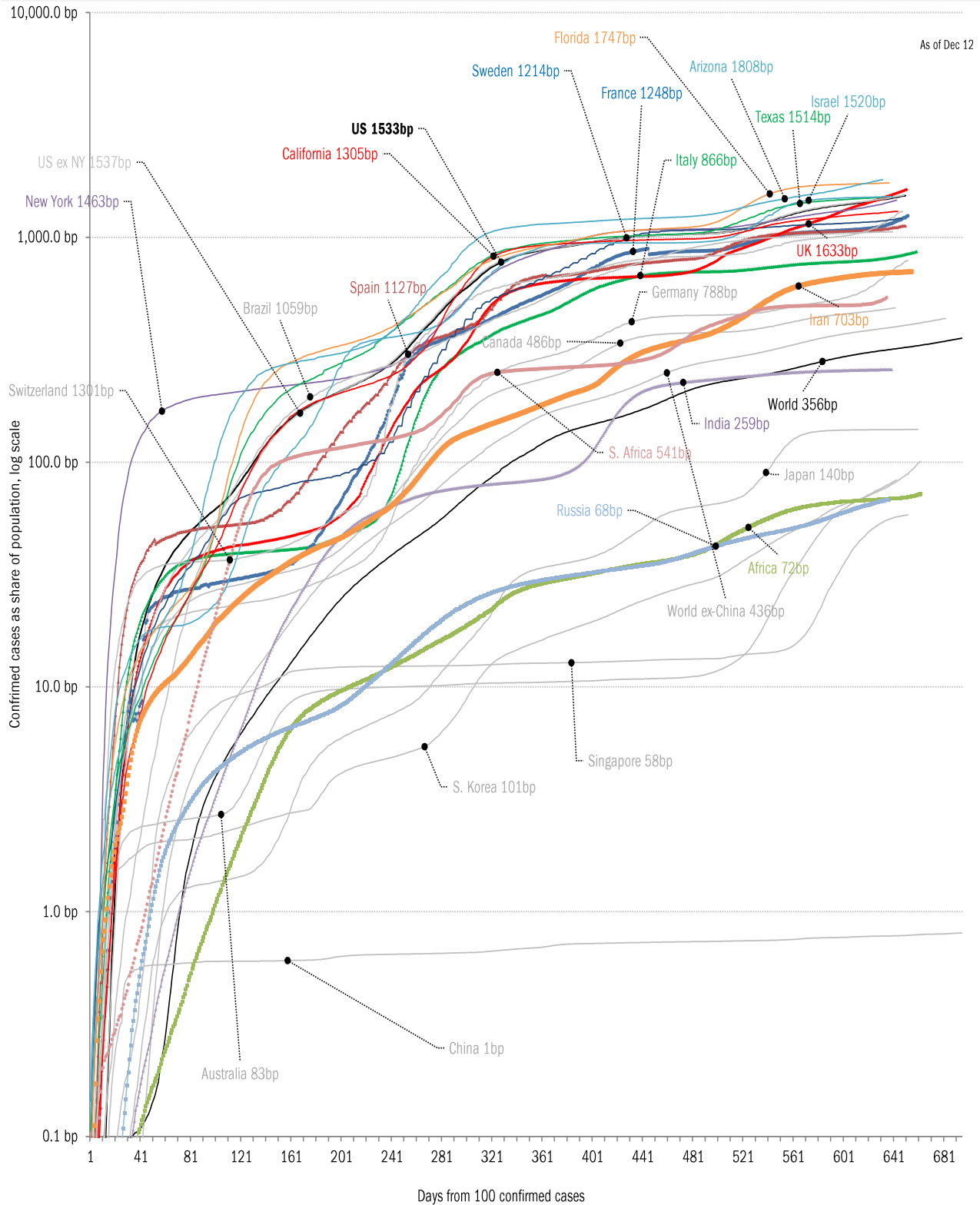
*The Lancet Infectious Diseases*  
December 9, 2021

## Meme of the day



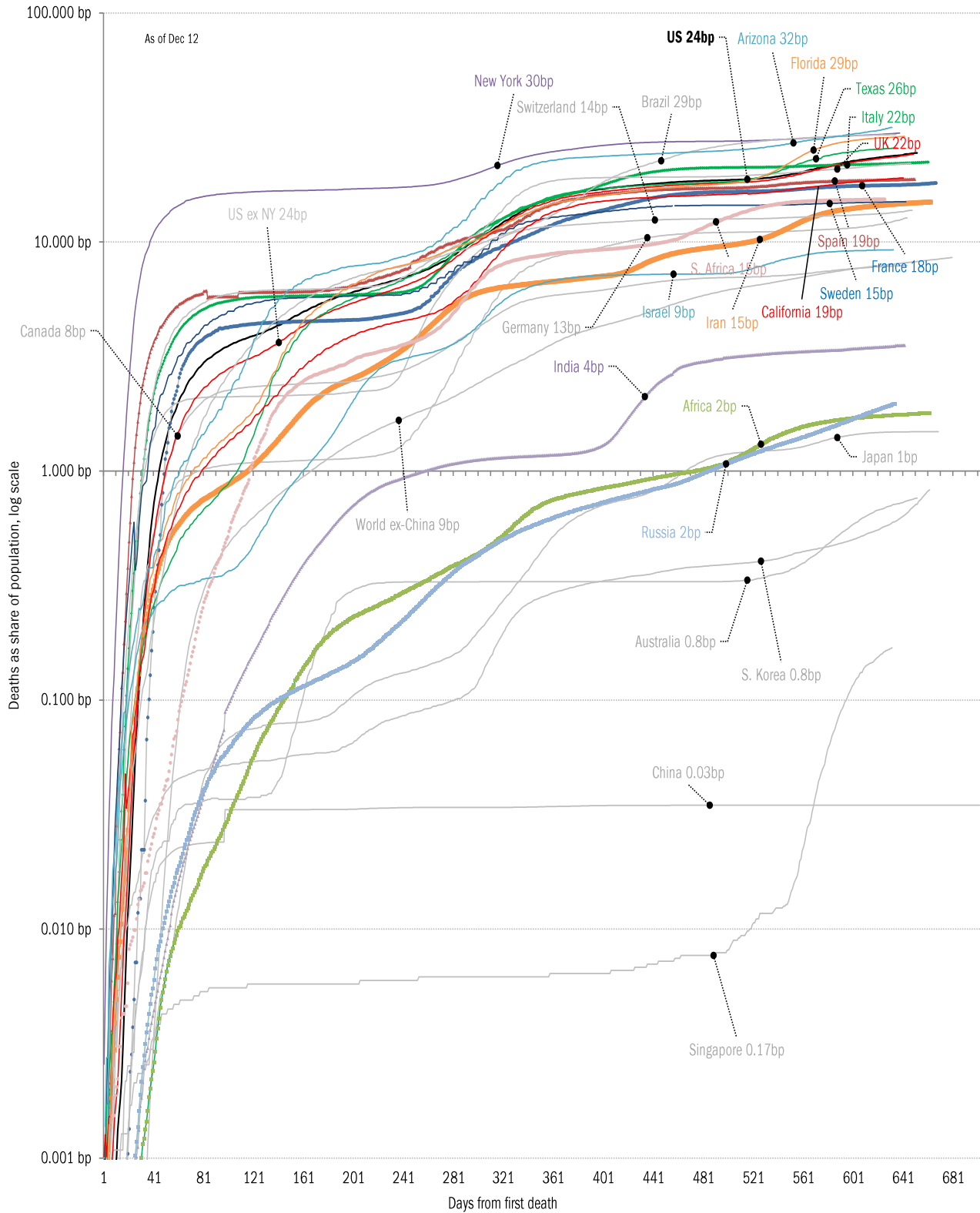
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



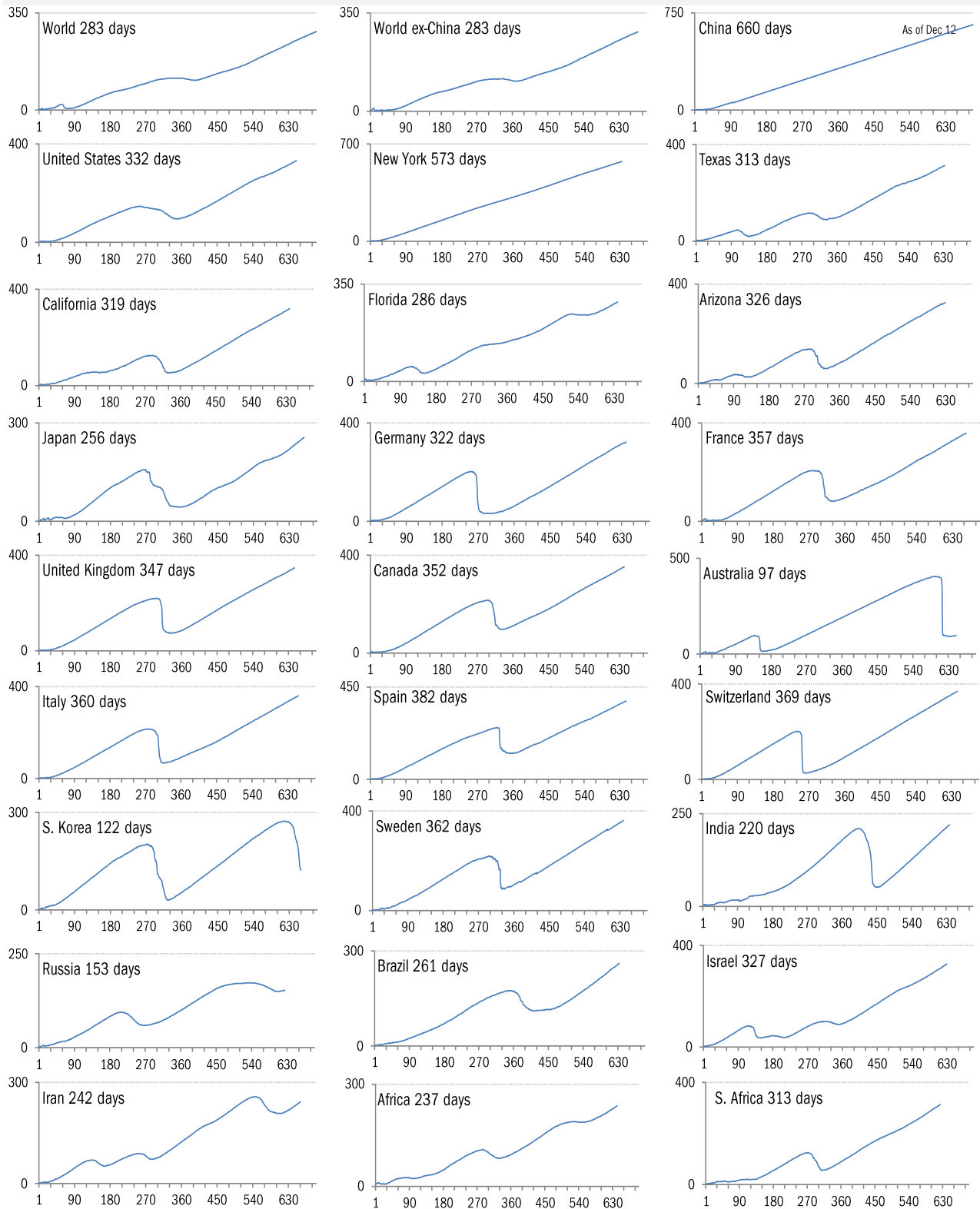
Source: [Johns Hopkins](#), TrendMacro calculations



# "Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

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

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

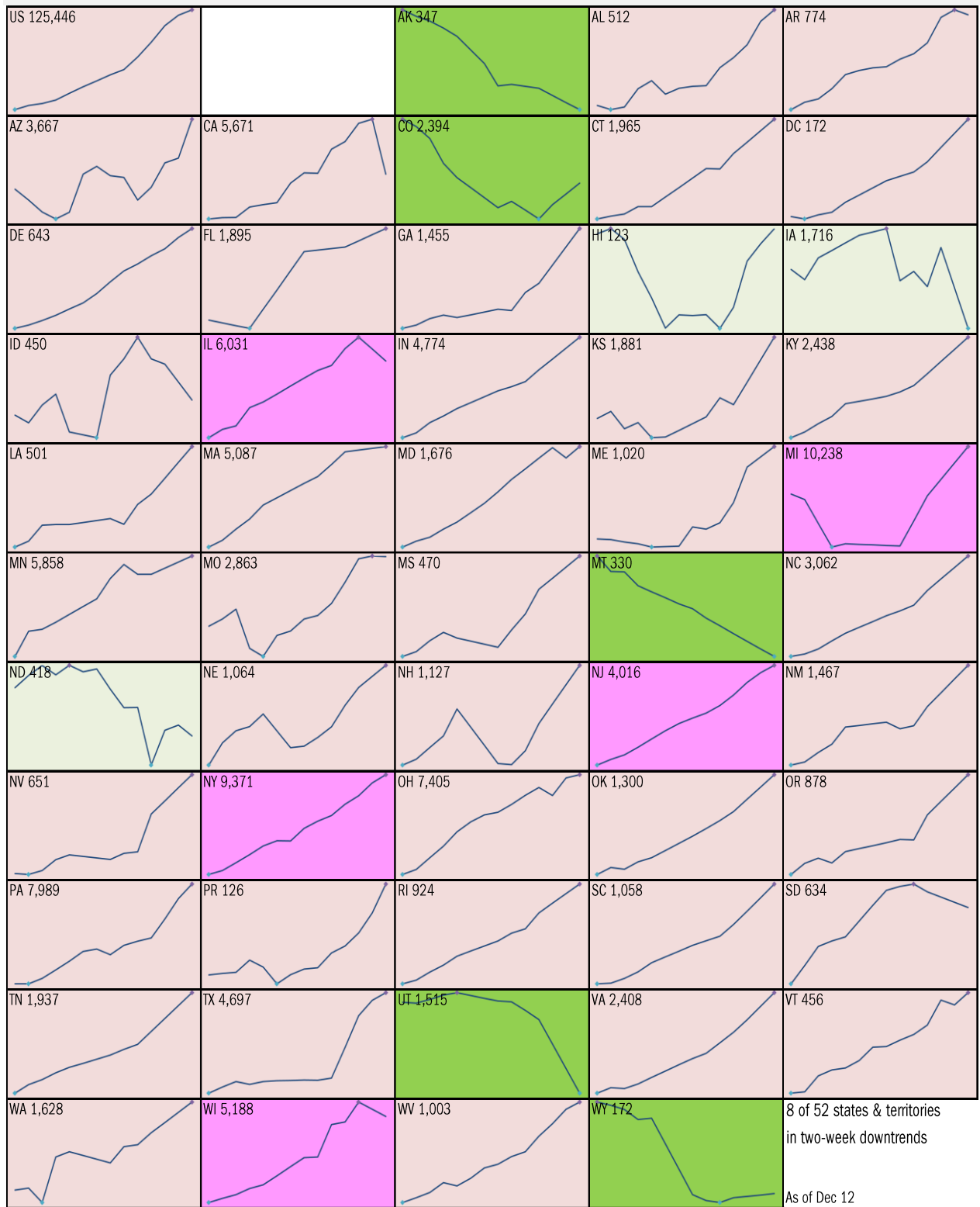


Source: [Johns Hopkins](#), TrendMacro calculations

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

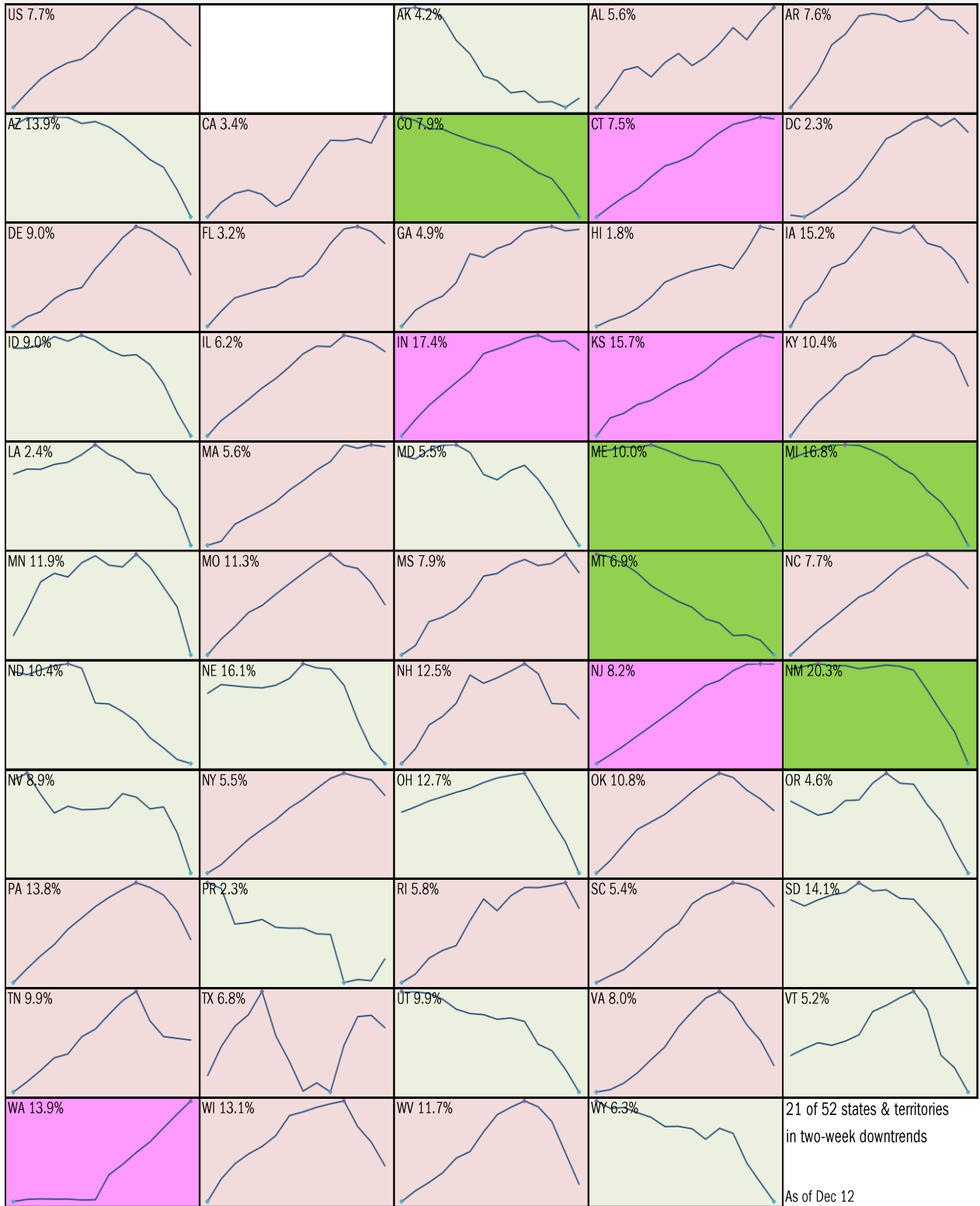


Source: [Johns Hopkins](#), TrendMacro calculations

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

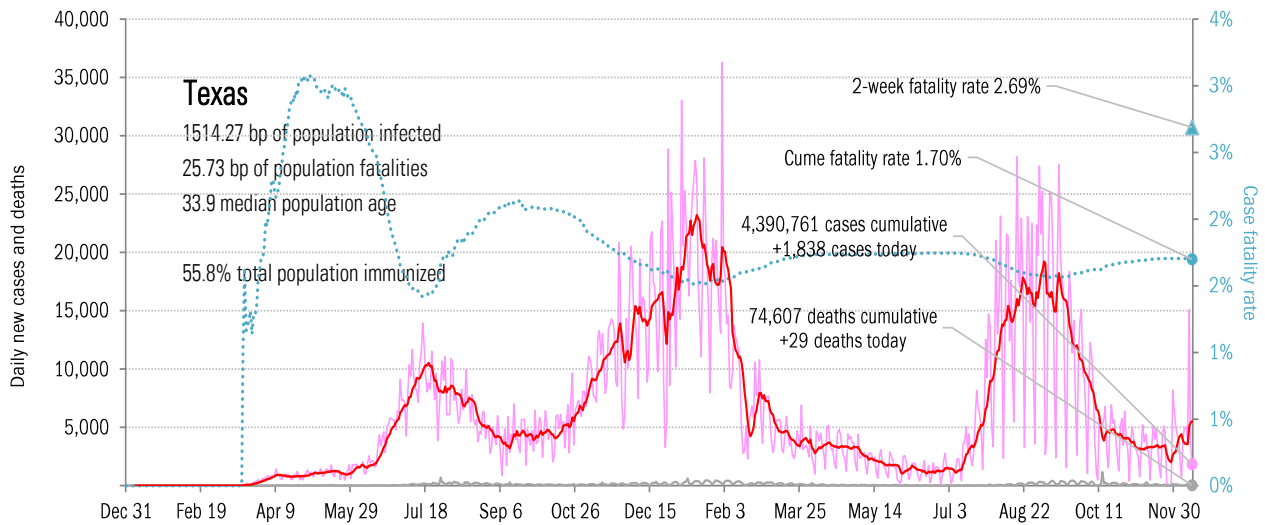
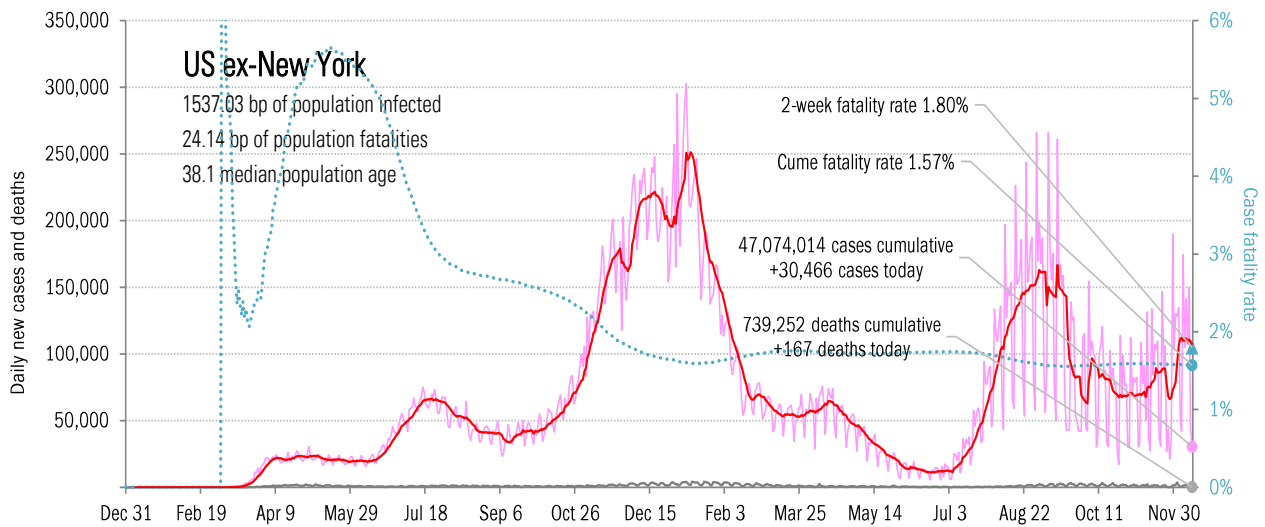
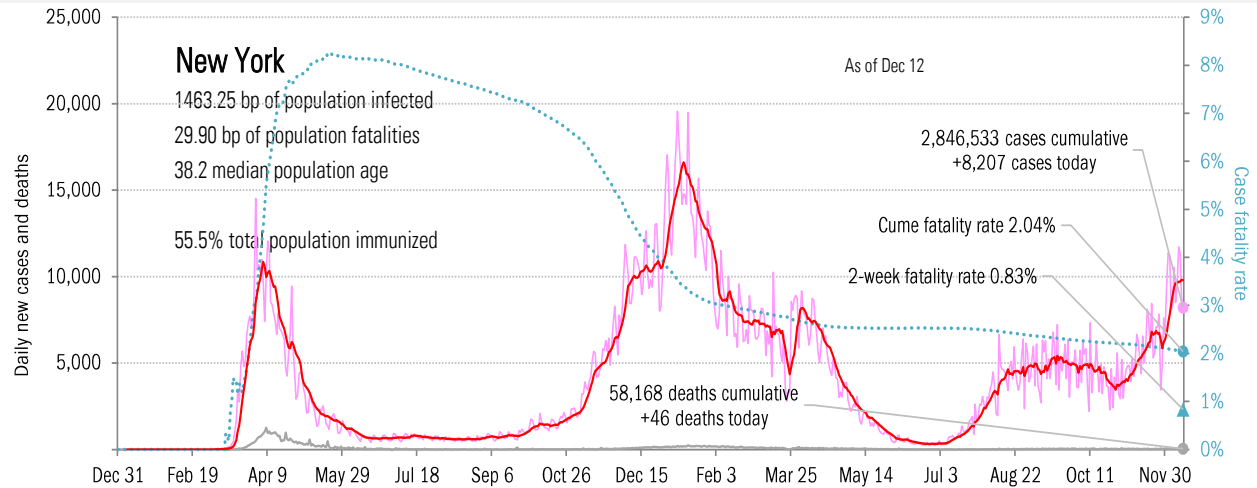
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

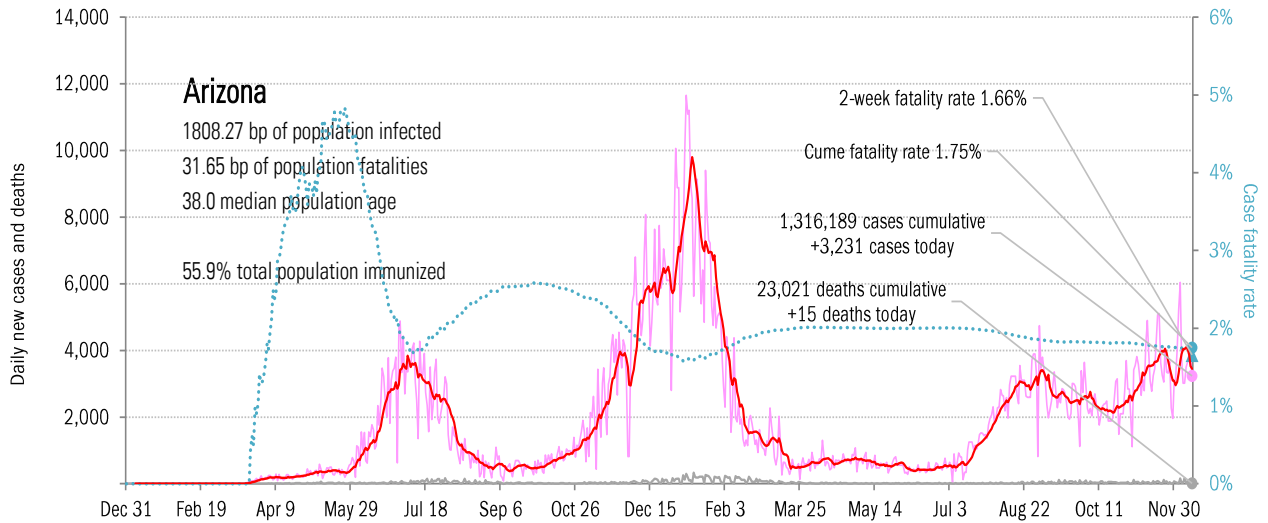
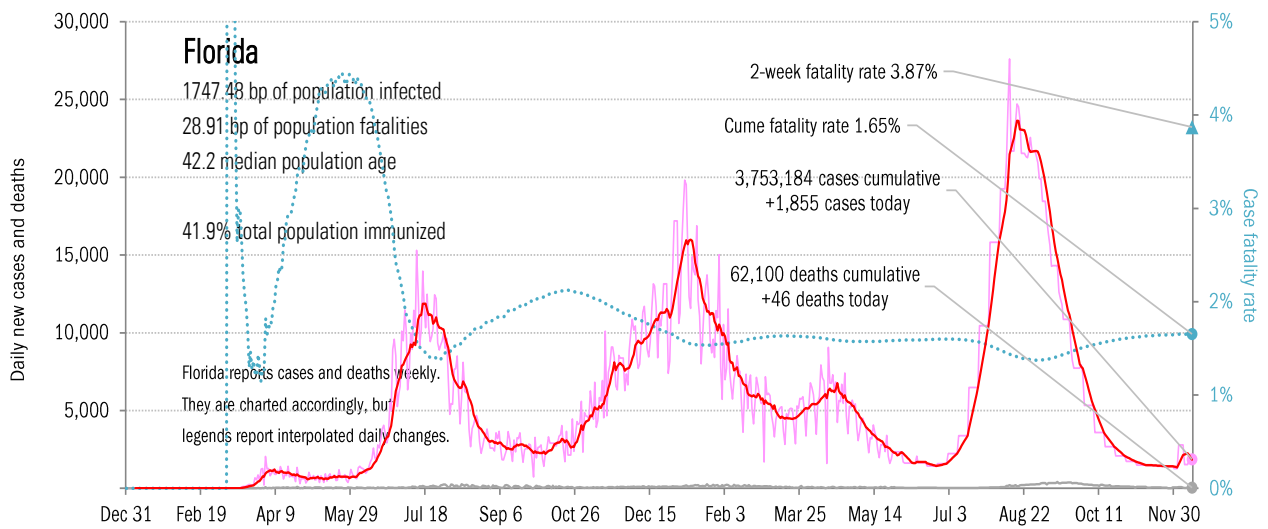
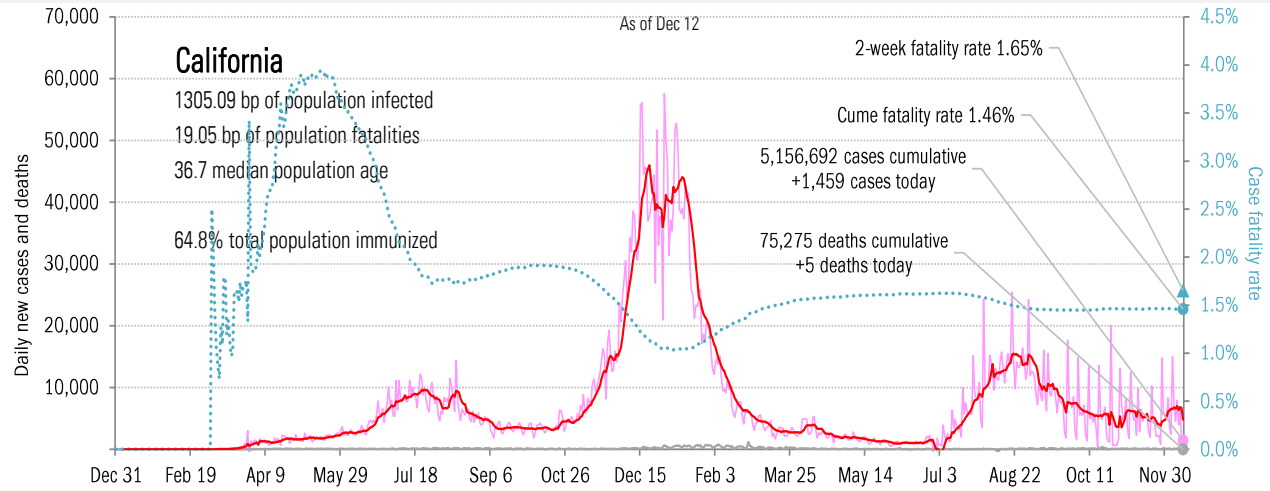
Cases: 7-day average and daily Deaths: Daily



Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

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

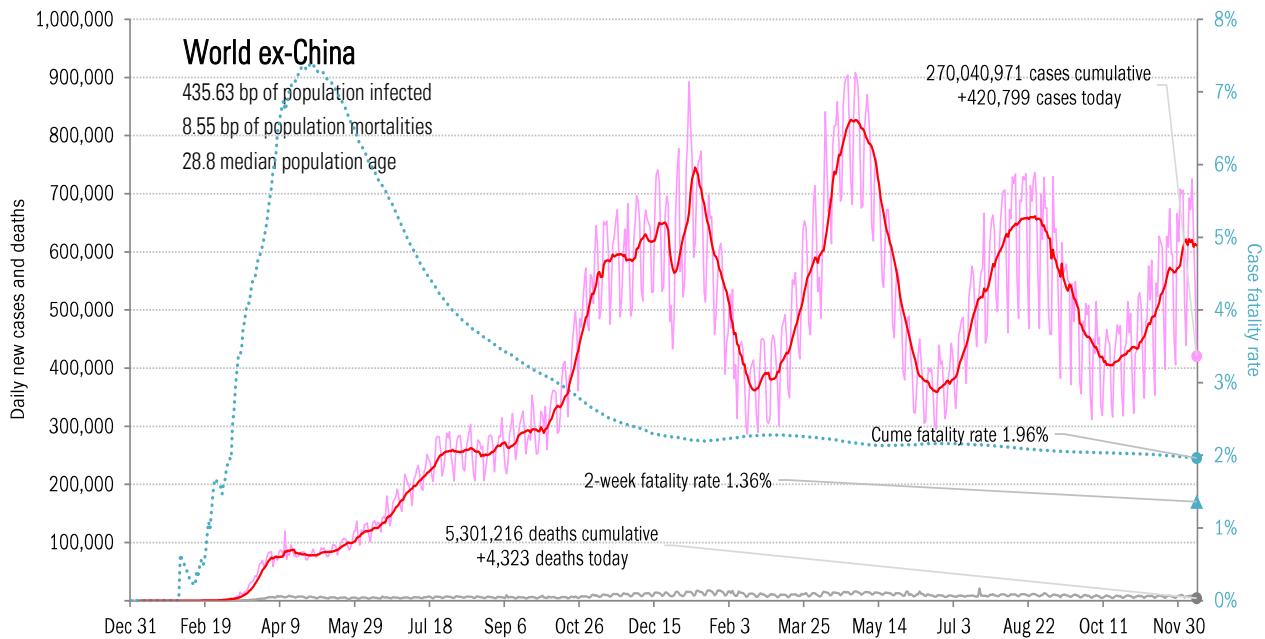
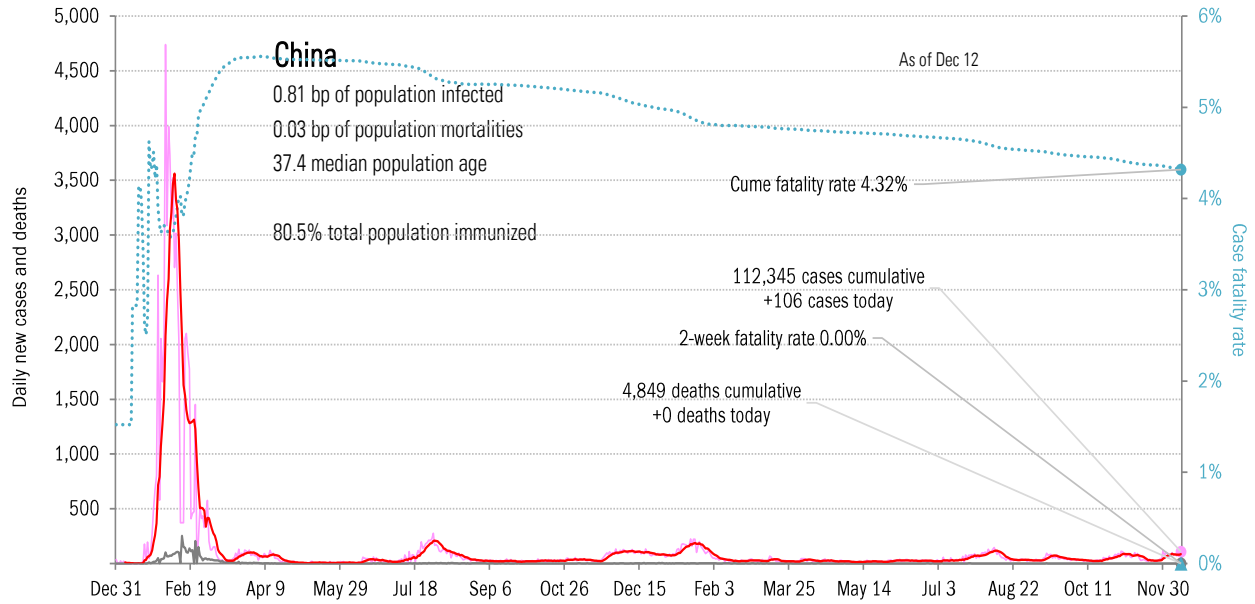
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

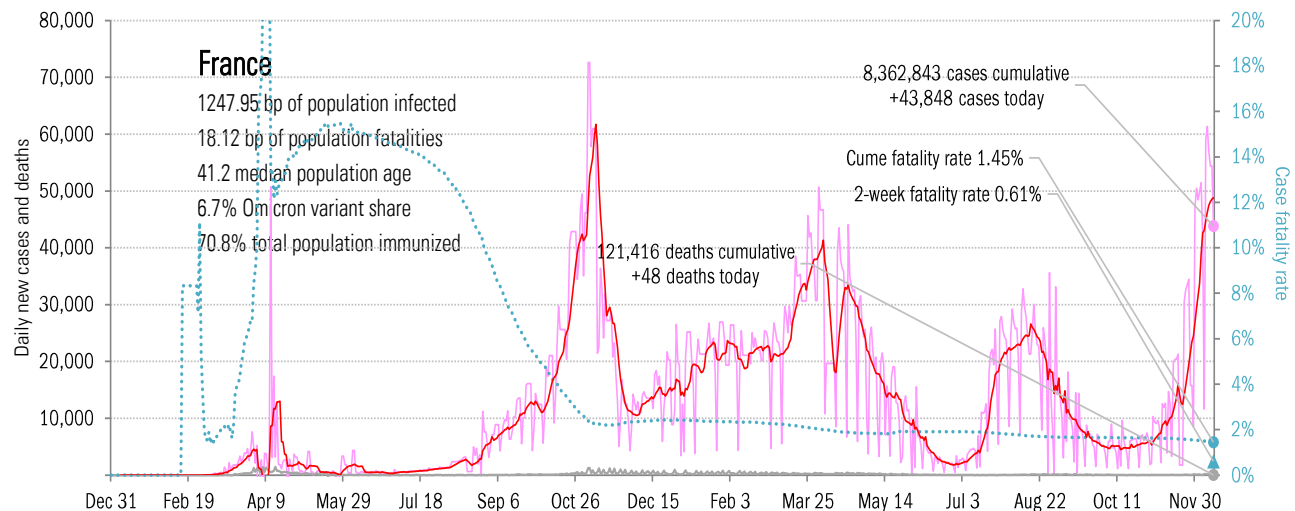
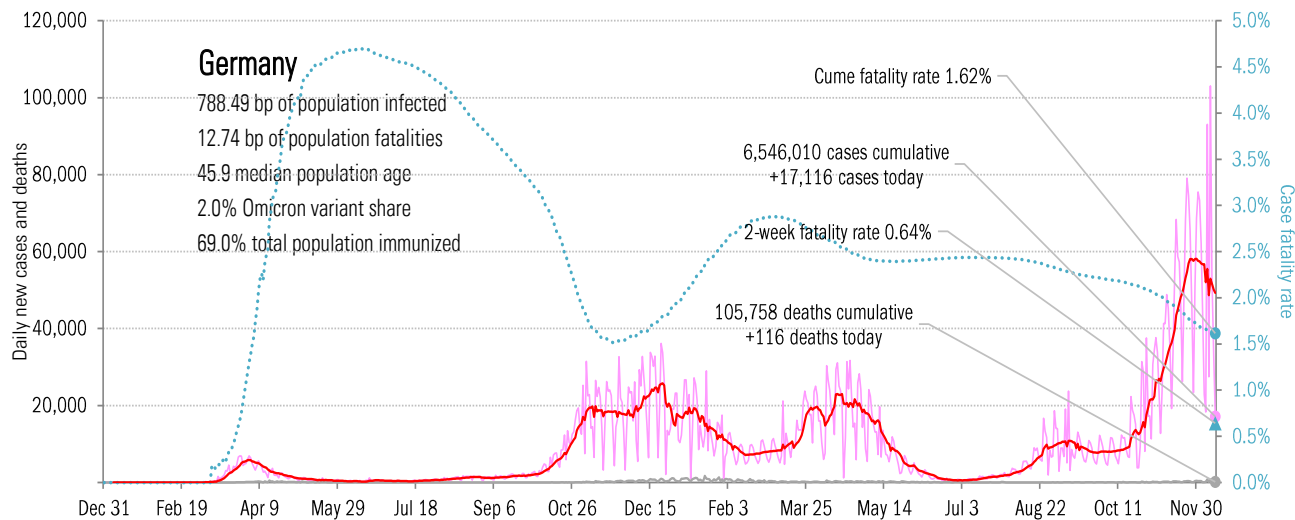
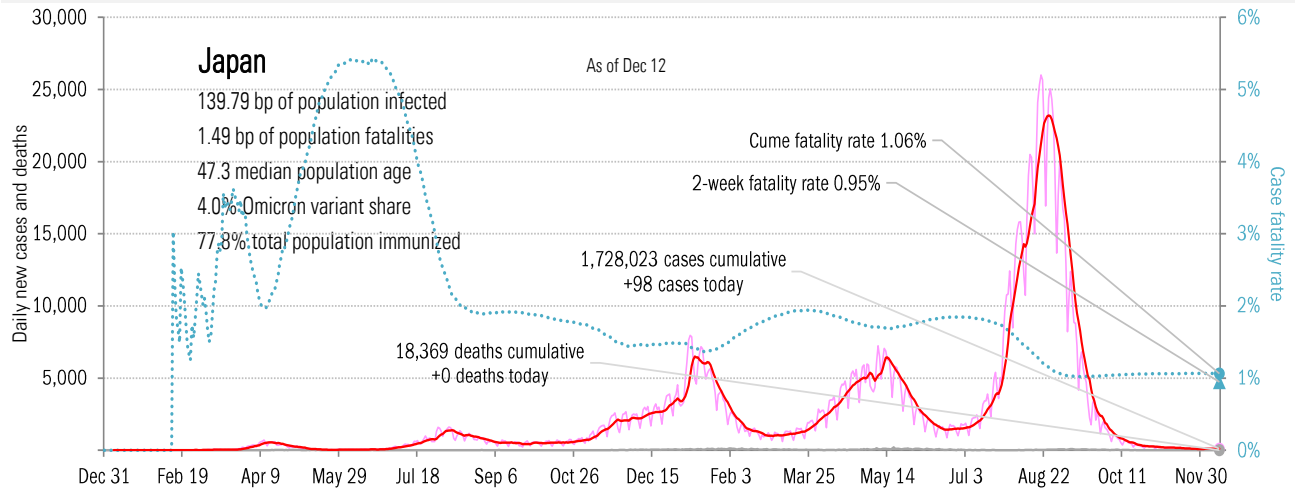
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

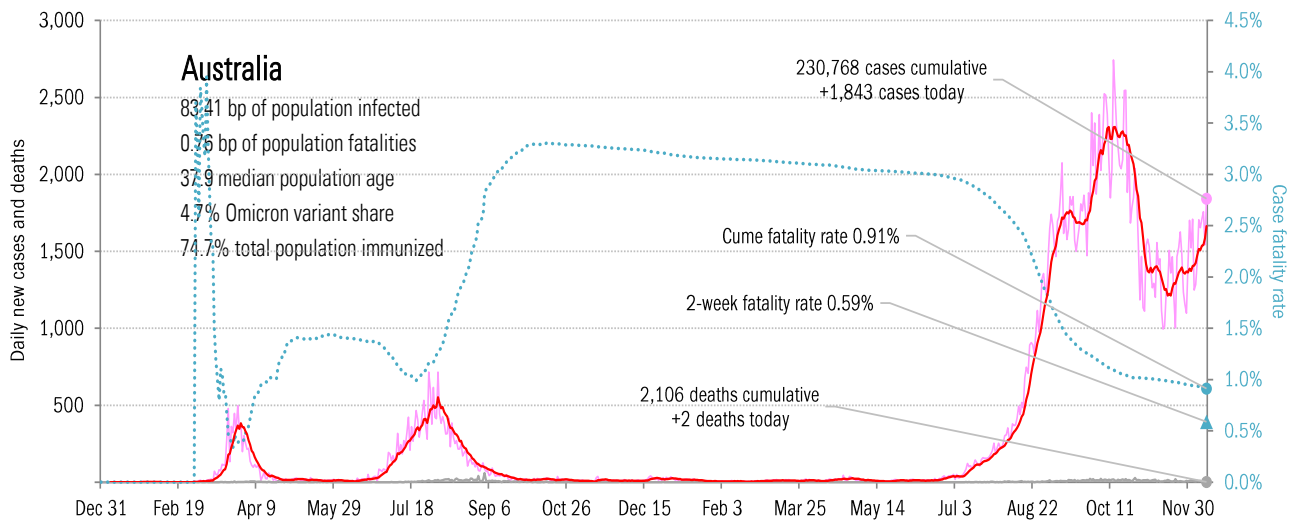
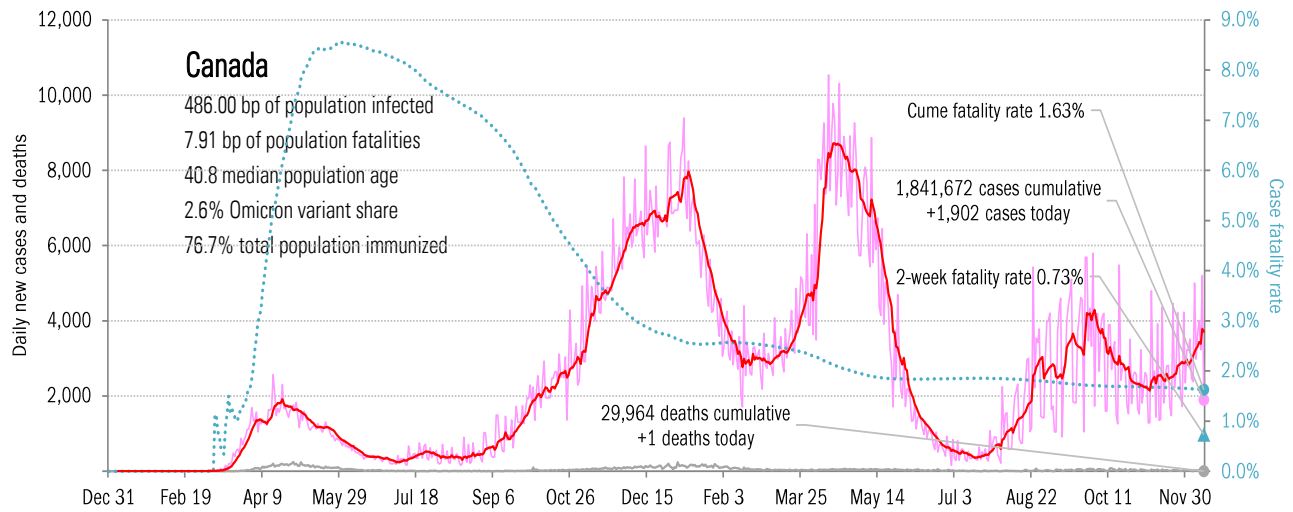
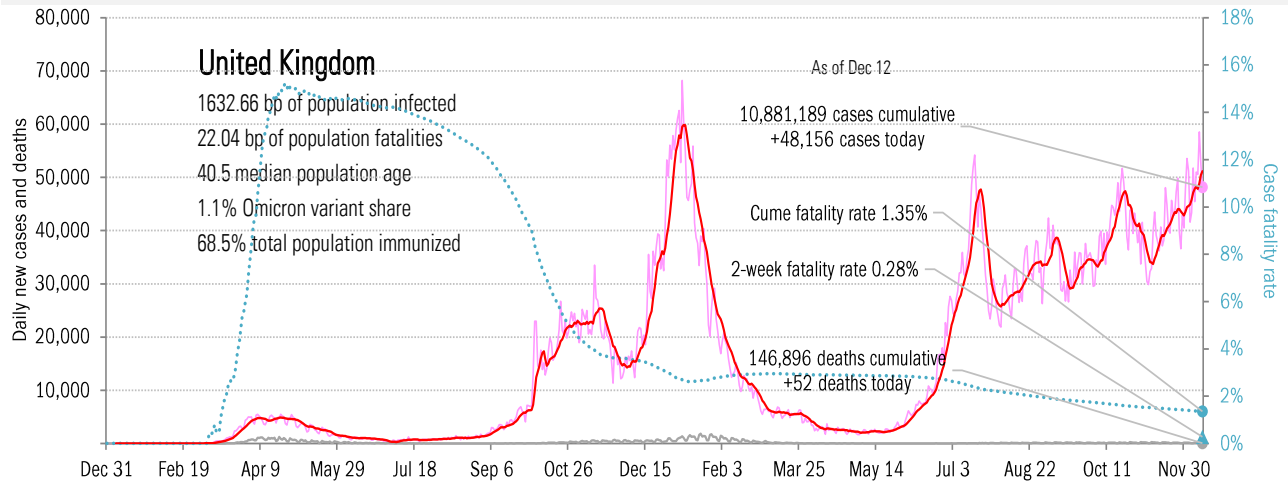
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

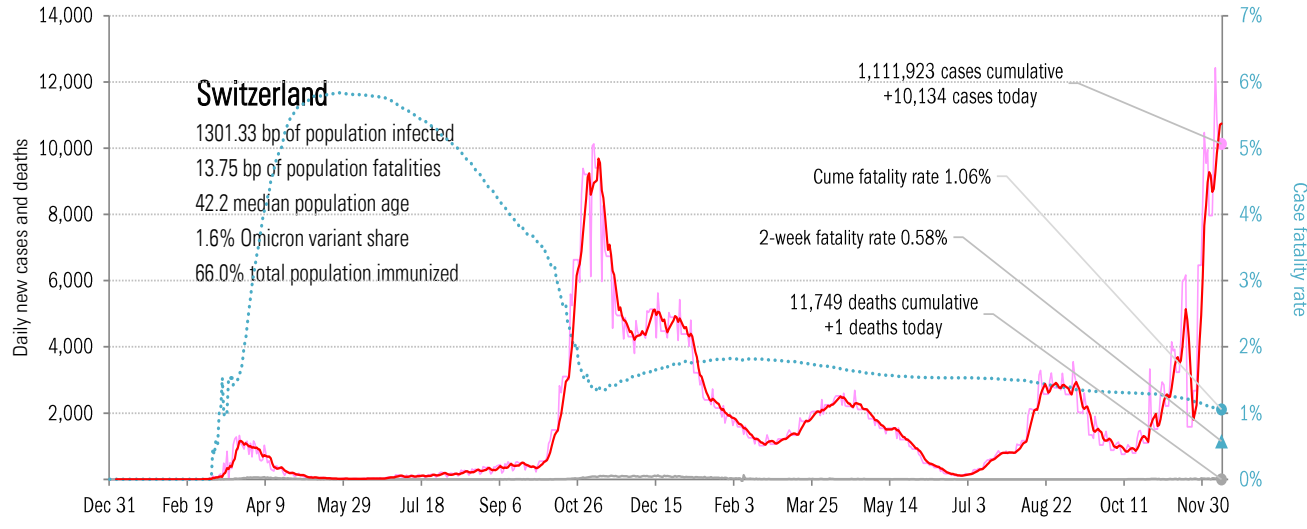
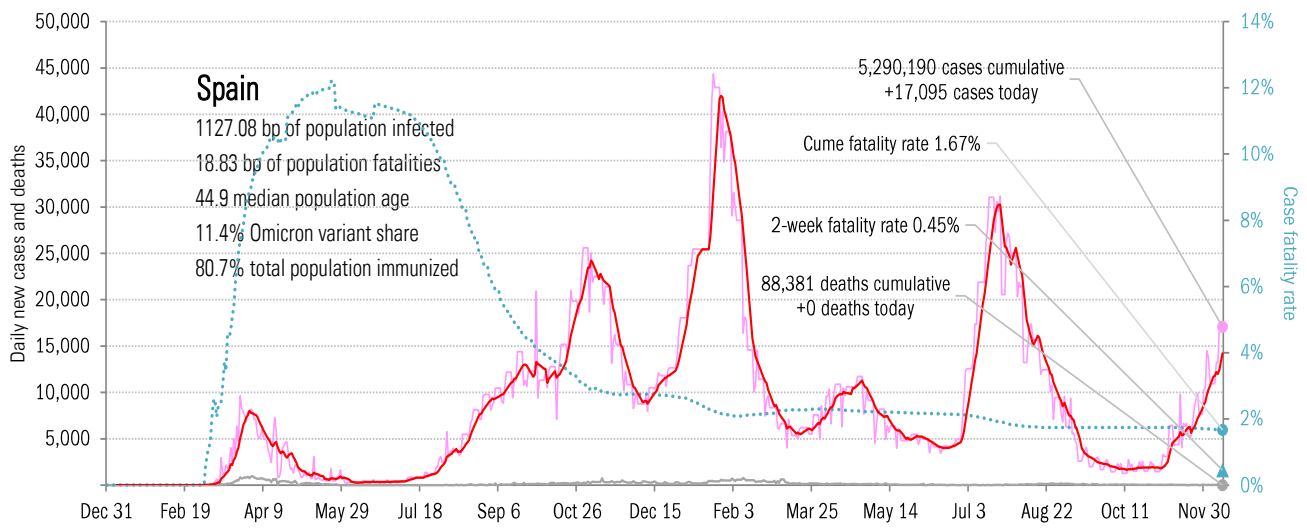
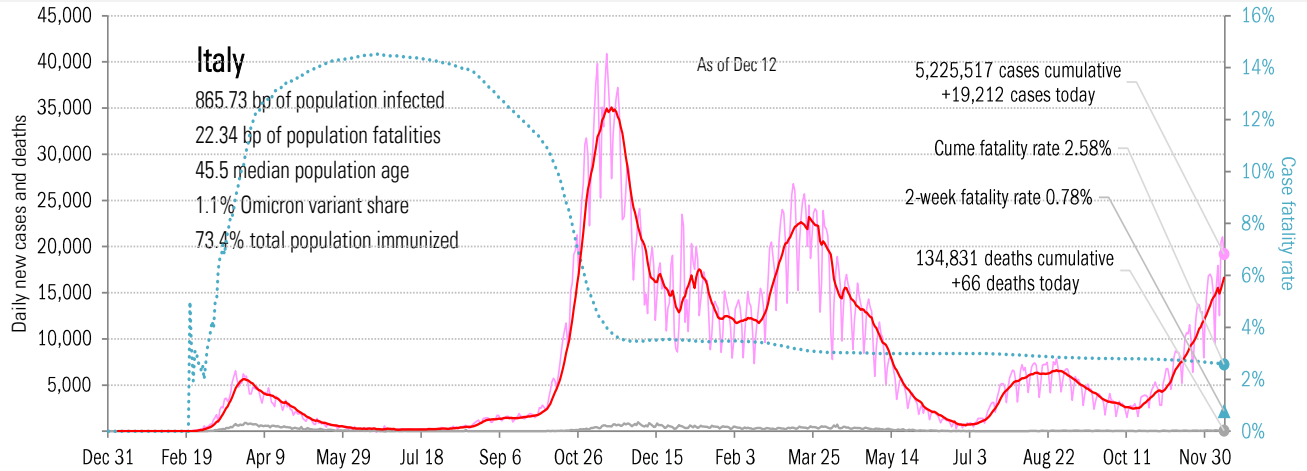


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

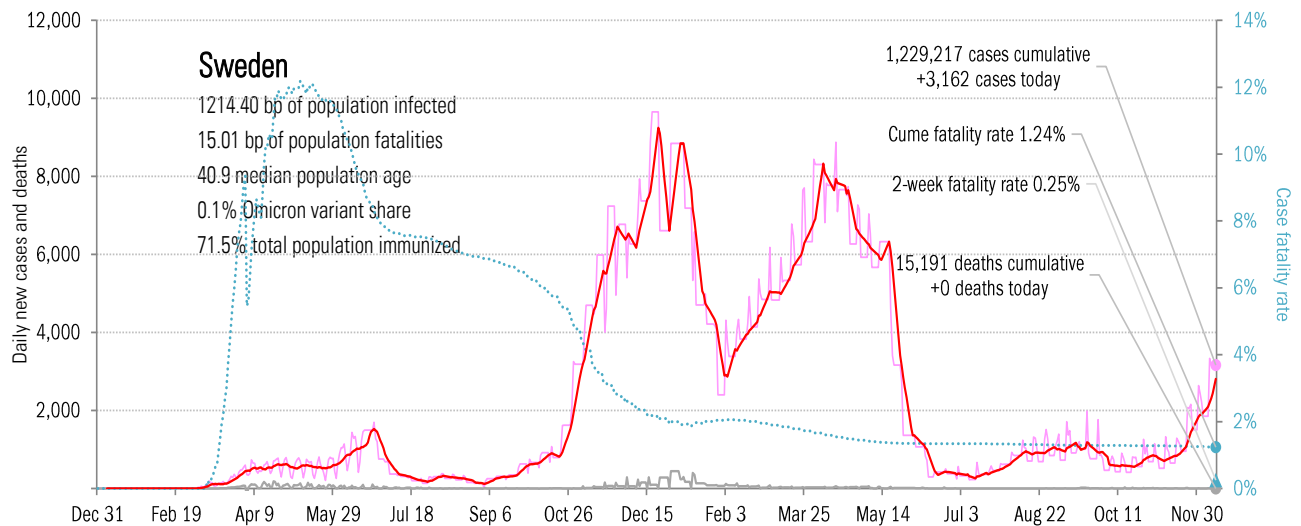
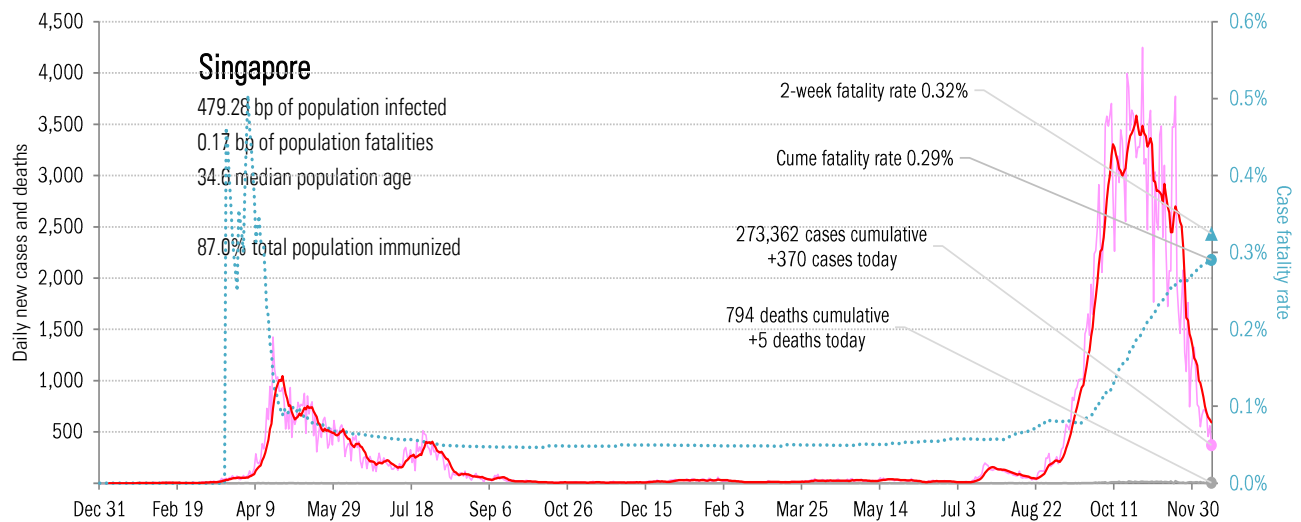
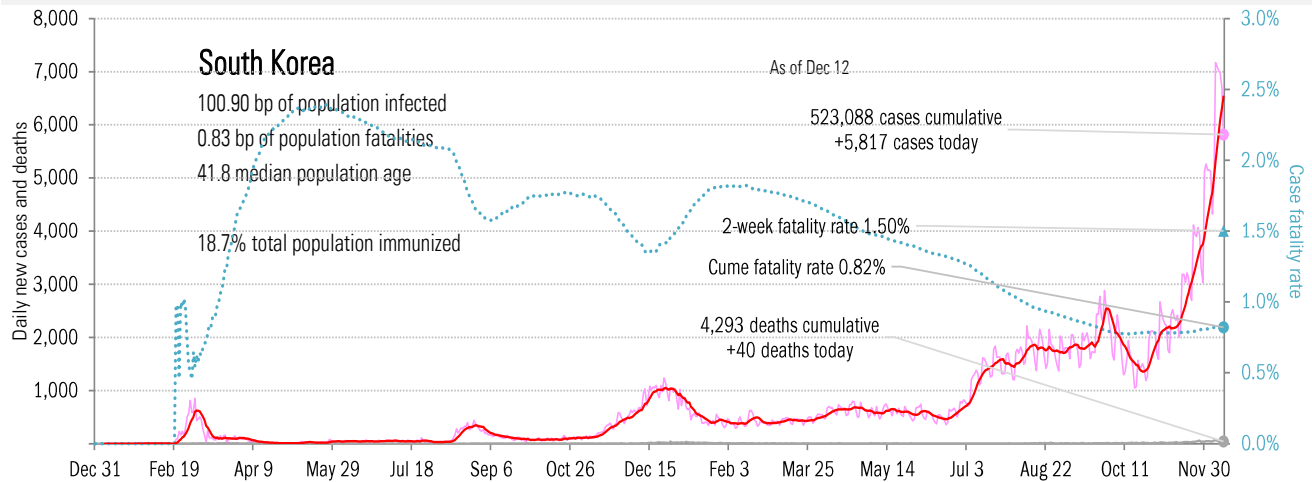
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

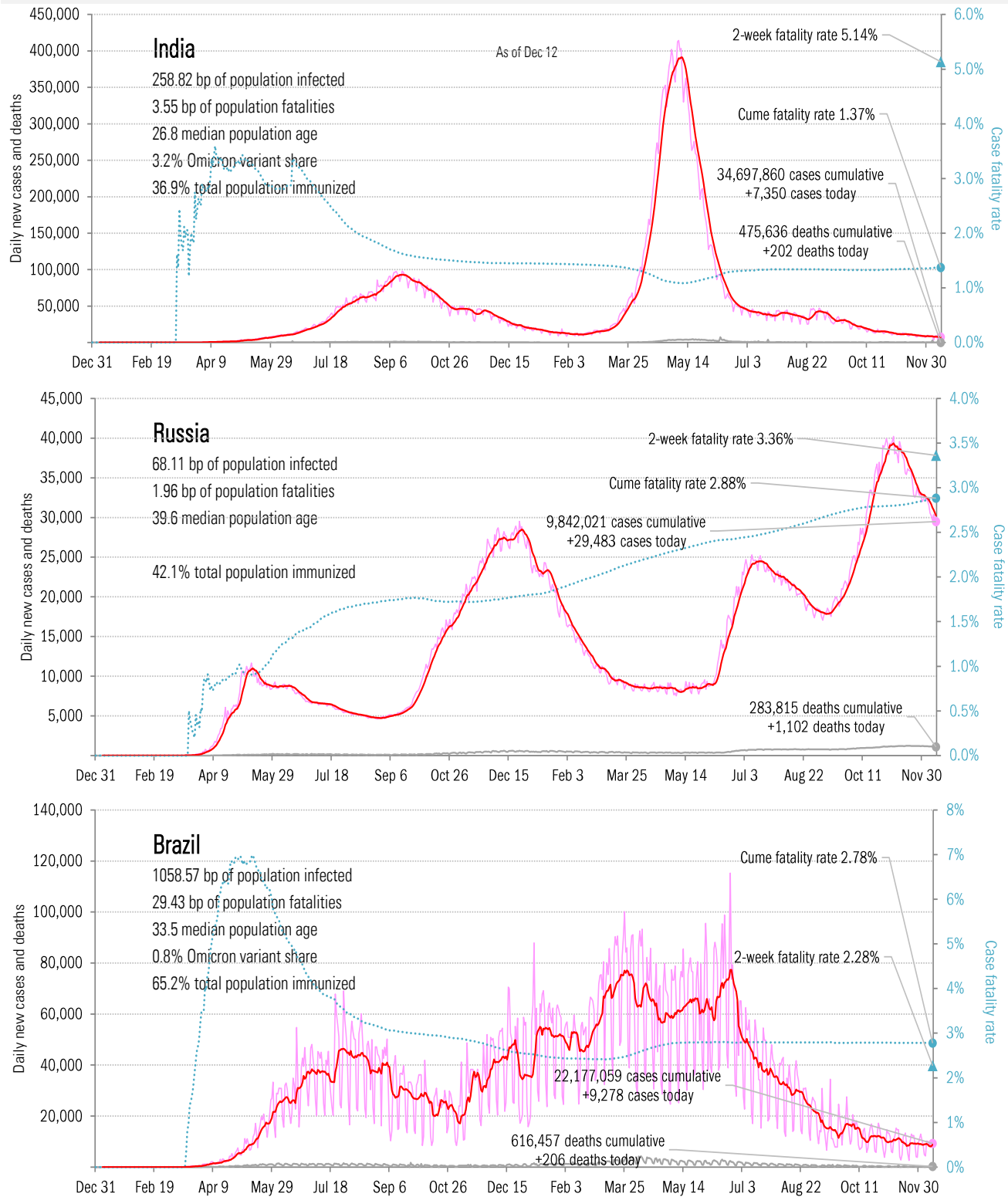
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

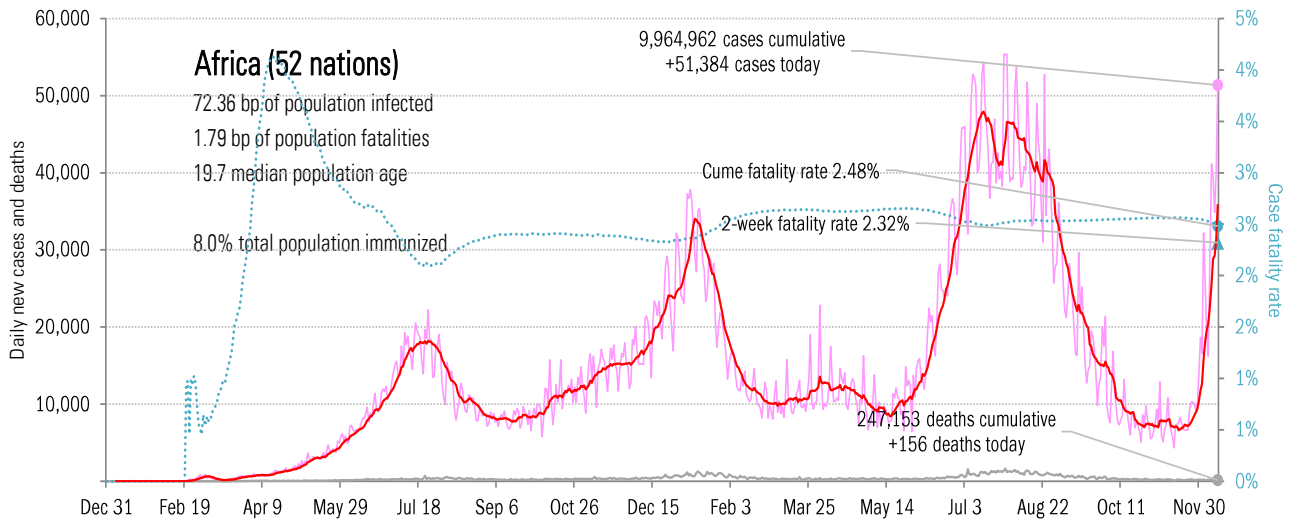
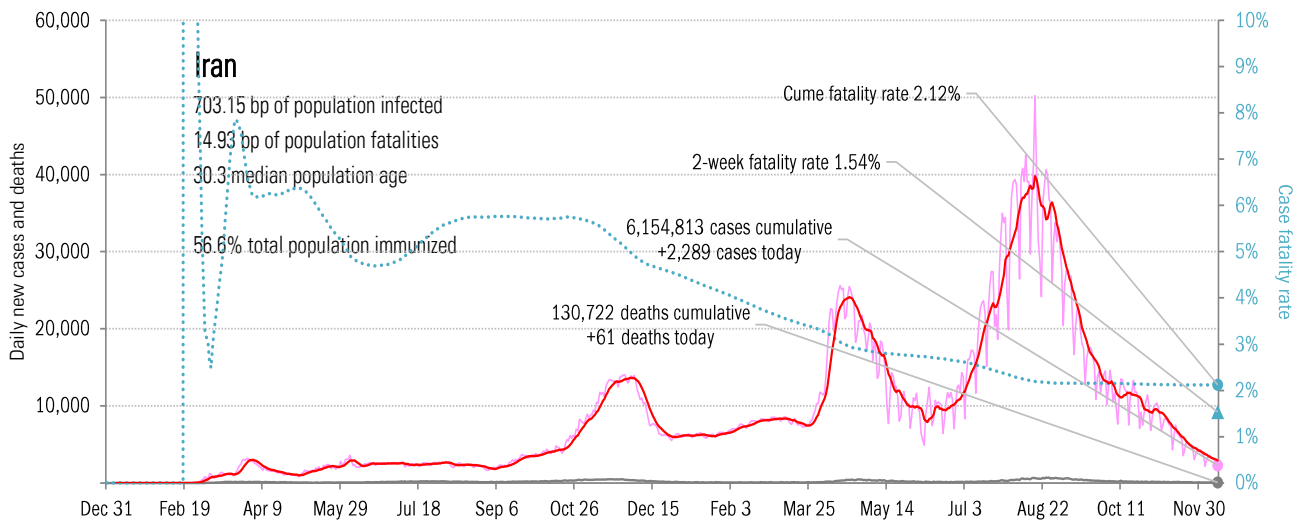
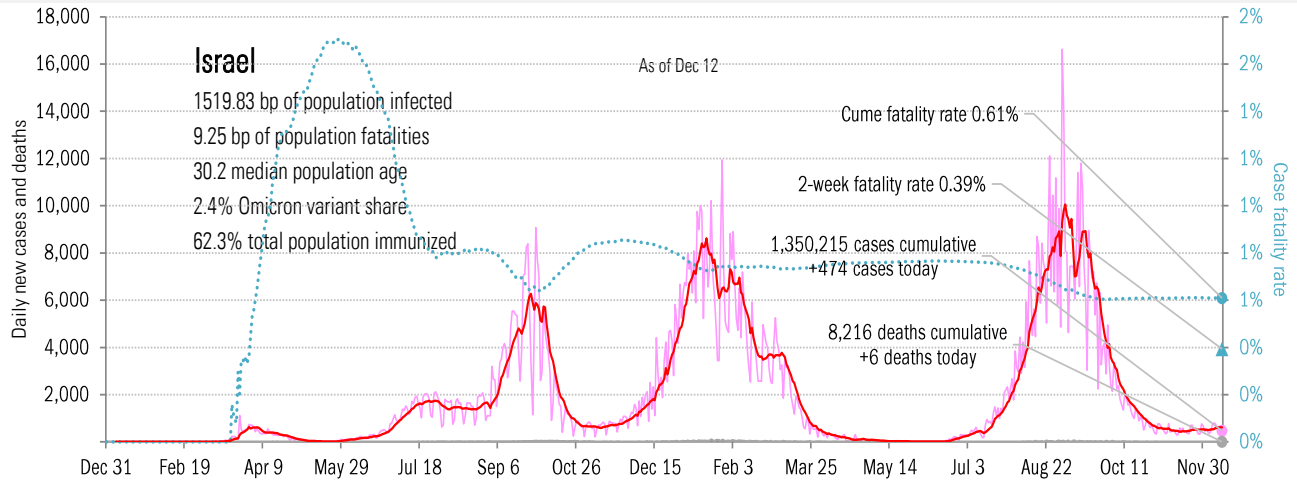
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

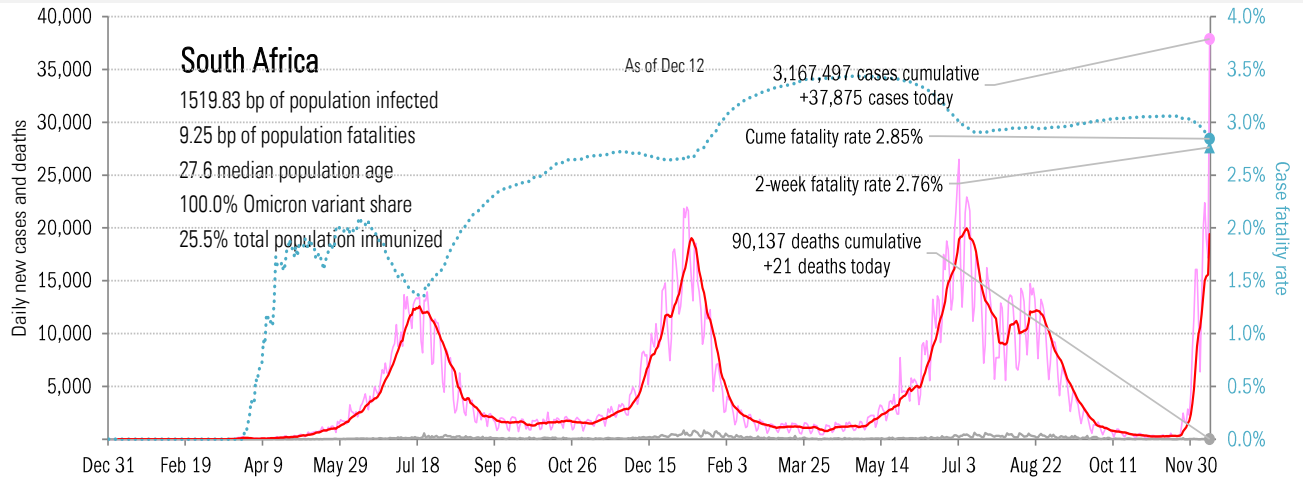
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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