

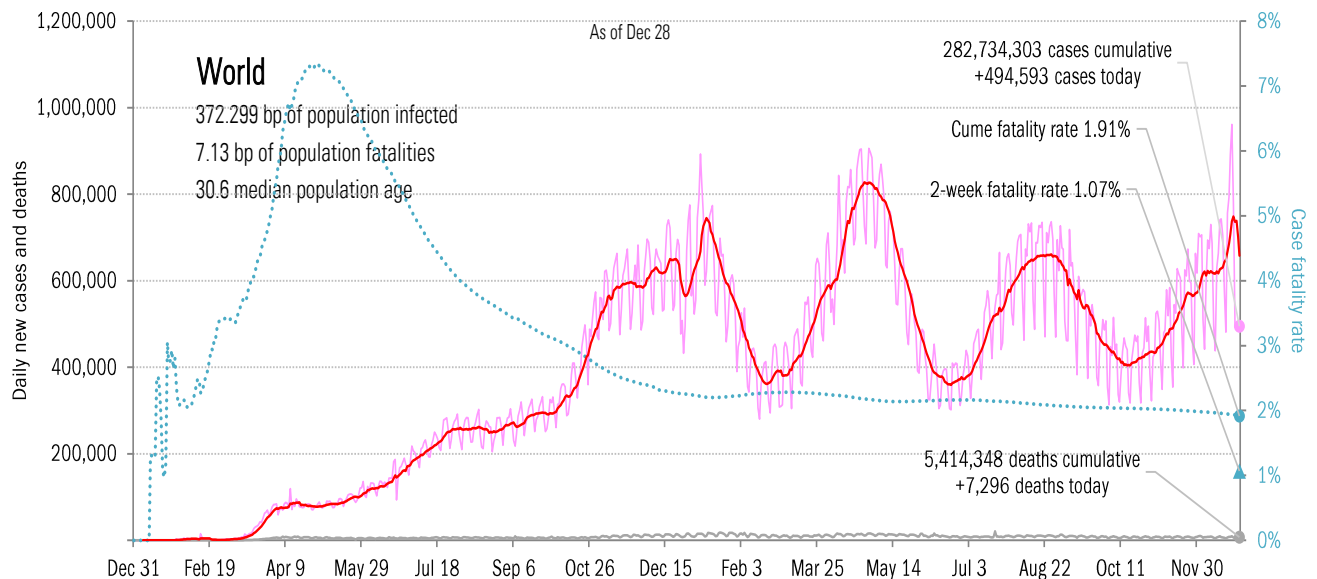
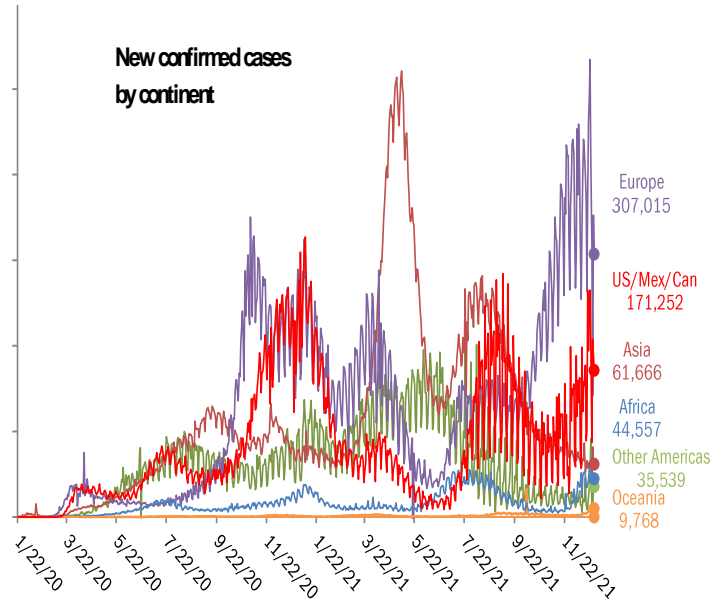
## Data Insights: Covid-2019 Monitor

Wednesday, December 29, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
France	179,808	United States	2,297
United States	168,676	Russia	906
United Kingdom	128,883	Poland	549
Spain	99,671	India	302
Italy	78,300	France	291
Argentina	33,902	Vietnam	214
Turkey	32,176	Italy	202
Germany	30,998	Germany	184
Russia	21,751	Turkey	184
Greece	21,732	Brazil	181
<b>795,897</b>		<b>5,310</b>	
World	494,593	World	7,296
Top ten	161%	Top ten	73%



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

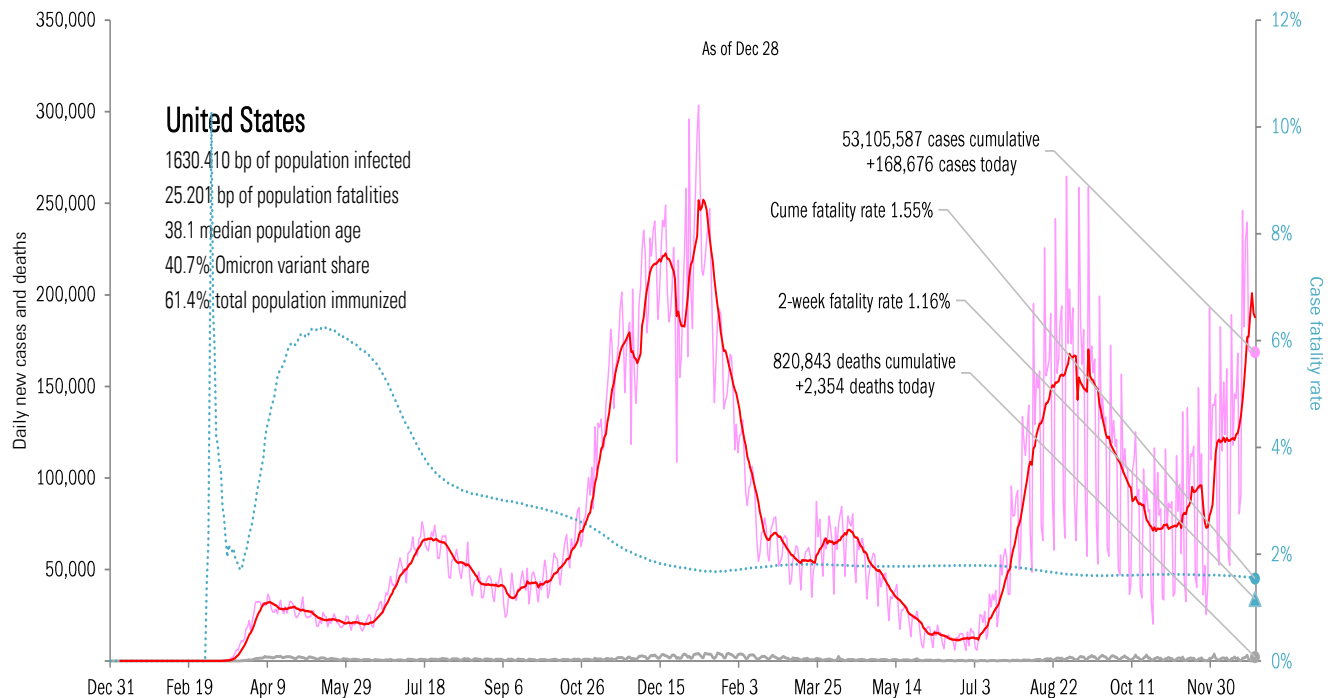
## The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
CA	50,138		MD	417		FL	314		CA	5,377,245		CA	76,255		TX	397,493		RI	84%	KY	91%
NY	47,102		VA	185		GA	250		TX	4,545,945		TX	75,561		FL	332,283		GA	81%	RI	90%
NC	32,167		IN	170		NY	239		FL	3,900,395		FL	62,525		CA	332,126		WA	81%	NH	89%
FL	26,049		MO	153		CA	218		NY	3,268,202		NY	59,169		NY	188,409		MA	81%	MO	86%
IL	20,804		PA	131		TX	195		IL	2,098,064		PA	36,200		GA	168,871		PA	80%	IN	86%
CH	15,403		IL	96		NJ	187		PA	1,979,510		GA	31,297		CH	152,380		MN	80%	AR	85%
TX	15,379		CO	92		IL	64		CH	1,955,403		IL	30,117		PA	141,144		MI	79%	WV	85%
NJ	15,234		CA	80		TN	63		GA	1,772,897		NJ	28,917		IL	123,778		MD	79%	MI	84%
PA	13,943		TX	76		SC	56		MI	1,681,046		CH	28,780		KY	119,497		NC	78%	TX	83%
GA	13,018		NC	75		CH	51		NC	1,639,545		MI	28,647		MI	116,077		IN	77%	MA	83%
249,237			1,475			1,637			28,218,252			457,468			2,072,058						
All states	374,004		2,297			1,572			All states	53,105,587		820,843			3,744,471			All states	70%	67%	
Top ten	67%		64%			104%			Top ten	53%		56%			55%			Median	71%	77%	

Some states not reporting

## Five most improved US states

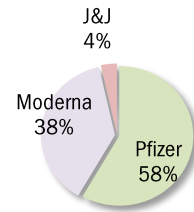
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-38,277	MI	-302	KY	-111	MP	+80 bp
MI	-35,468	FL	-142	IN	-71	GA	+20 bp
IL	-35,154	KY	-133	IA	-55	IA	+20 bp
WA	-17,351	NY	-89	CT	-36	KS	+20 bp
IN	-14,663	TX	-87	IL	-33	NE	+20 bp



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	518,217,254	+1.534 million	US	61.4%	73.1%
Boosters	68,286,129	+0.905 million	UK	69.3%	75.8%
	<b>One dose</b>	<b>% Pop</b>	<b>Immune</b>	<b>% pop</b>	<b>New immune today</b>
Total population	248,791,256	74%	210,555,092	63%	+0.223 million
Age 12 to 17	15,127,288	64%	12,734,306	53%	+0.016 million
Age 18 to 64	168,431,165	83%	143,297,267	70%	+0.116 million
Age 65 and over	57,637,056	100%	49,607,892	91%	+0.017 million



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



Every American >18 immunized in **356 days** by Dec 19, 2022  
 74.7% of population >18 immunized  
 18.7% previously tested positive  
**93.4%** vs 60% adult herd immunity

France	72.9%	78.1%
Spain	81.0%	84.6%
Germany	70.2%	73.2%
Italy	74.0%	79.9%
Australia	76.4%	79.2%
Israel	63.5%	70.4%
Canada	77.1%	83.2%
Japan	78.3%	79.7%
Africa	9.0%	14.0%
India	42.1%	60.3%
Brazil	66.8%	77.6%
China	83.3%	84.8%

Global data differs due to sources, timing

AK	64.9%
	56.2%

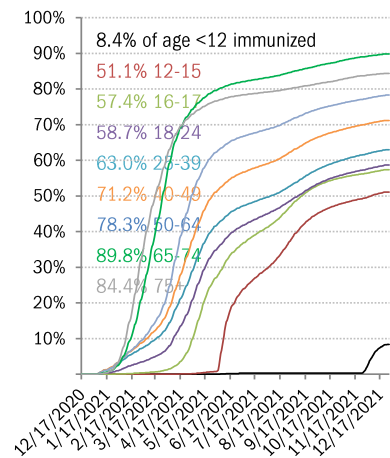
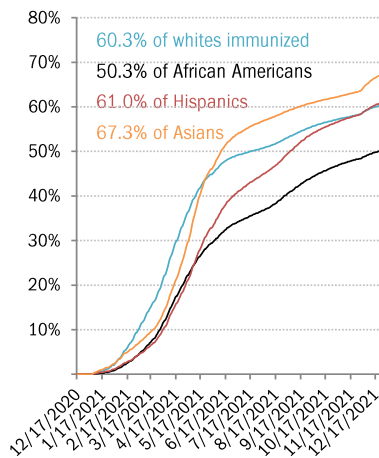
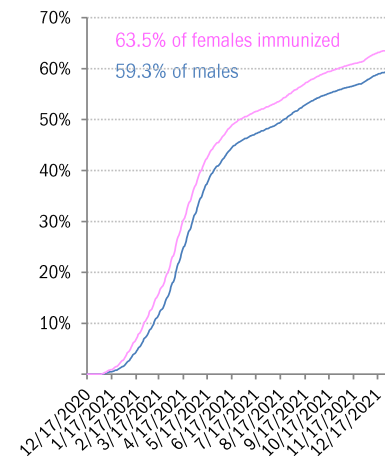
WI	68.1%
	61.8%

As of Dec 28

ME	85.7%
	75.7%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
75.5%	52.0%	61.9%	62.1%	71.3%	72.2%	63.3%	83.6%	89.2%	95.0%	
67.8%	46.2%	53.9%	52.5%	65.3%	64.2%	56.7%	71.6%	77.3%	67.1%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
73.9%	69.3%	55.7%	70.7%	64.8%	57.7%	60.3%	77.9%	83.3%	90.3%	
66.4%	56.3%	47.4%	56.9%	58.9%	51.9%	55.1%	63.7%	70.3%	74.4%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
82.5%	67.2%	74.3%	66.2%	62.2%	62.3%	61.8%	78.8%	80.2%	88.3%	88.6%
66.0%	58.6%	66.1%	59.7%	52.9%	54.1%	55.0%	67.9%	70.3%	74.5%	76.2%
AZ	NM	KS	AR	TN	NC	SC	DC	DE		
67.1%	80.4%	69.1%	62.6%	58.6%	76.0%	62.6%	88.1%	76.4%		
56.9%	66.1%	56.9%	51.1%	51.3%	56.6%	53.0%	67.4%	64.0%		
OK	LA	MS	AL	GA						
65.8%	57.2%	55.3%	58.4%	61.0%						
53.4%	50.2%	48.1%	47.6%	50.9%						
TX										
66.6%										
56.8%										
HI							FL		PR	
87.2%							74.3%		88.7%	
63.4%							63.2%		76.8%	

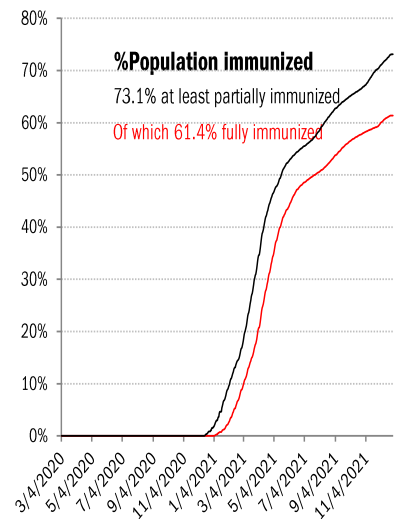
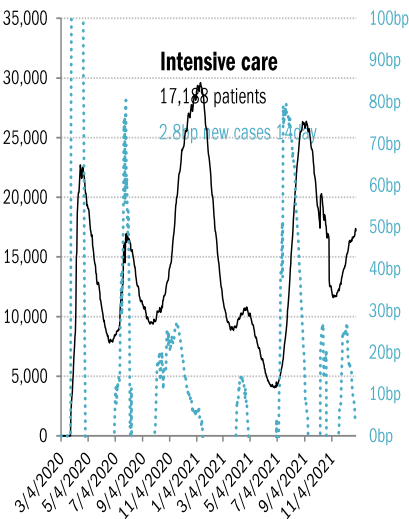
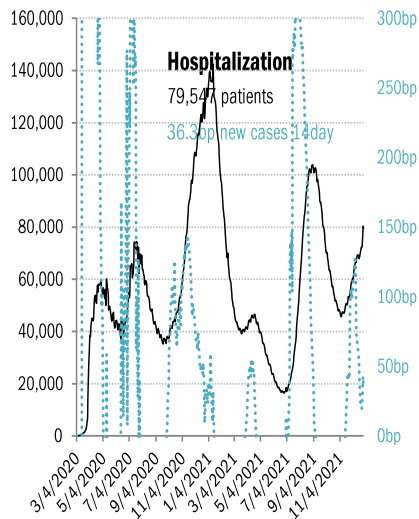
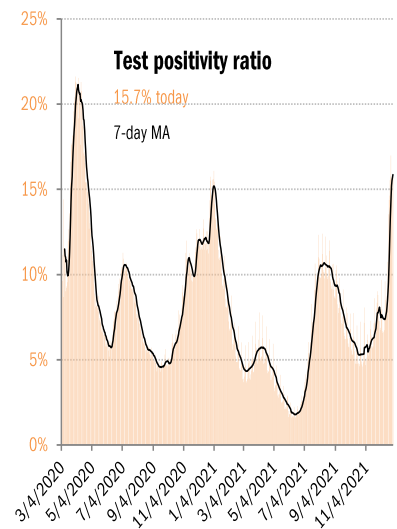
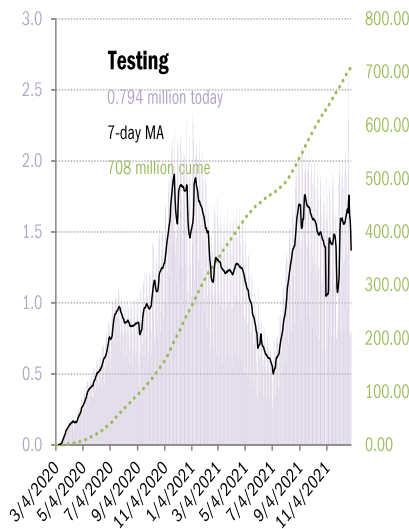
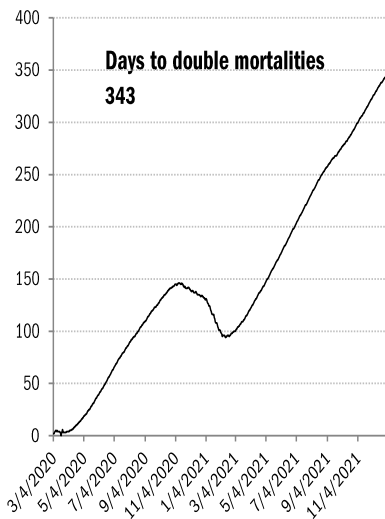
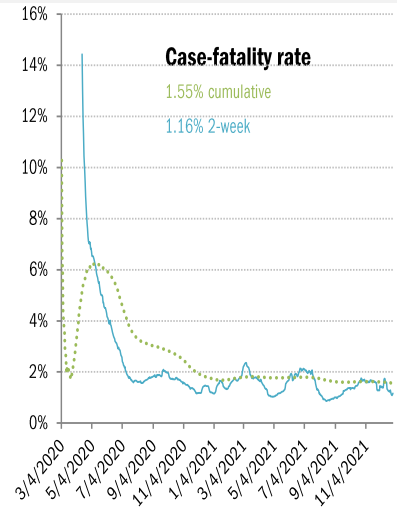
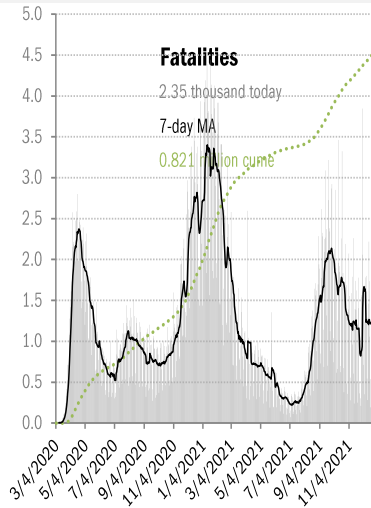
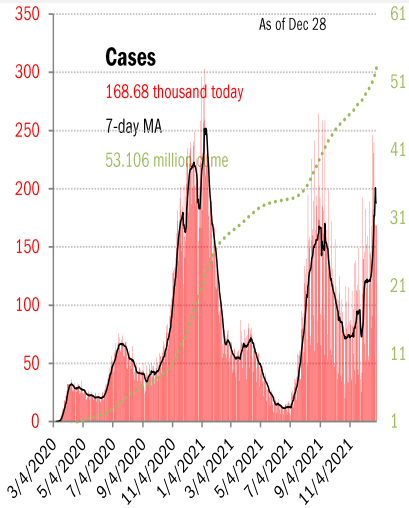
## The demographics of US vaccination



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

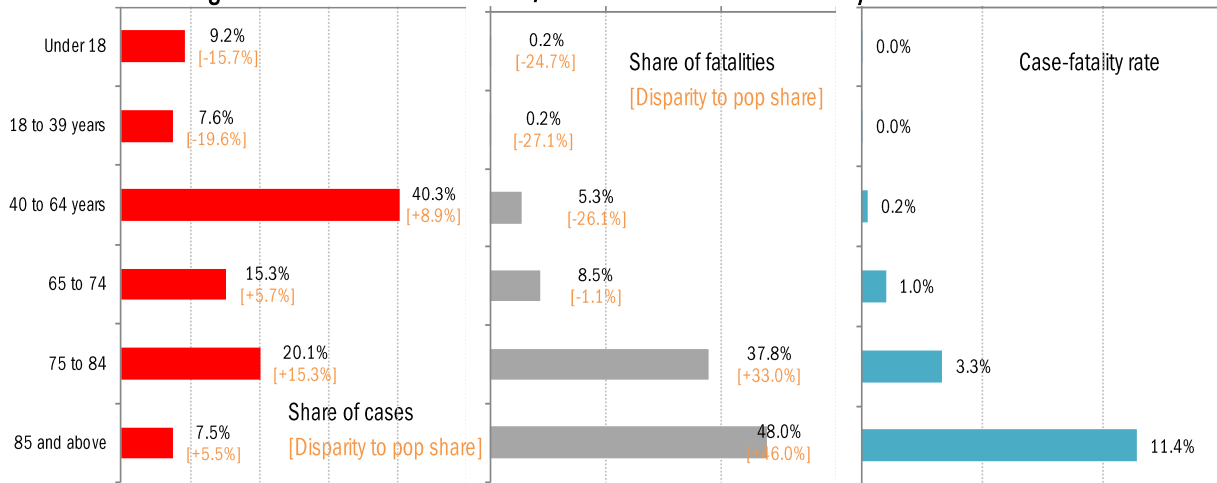
# US deep-dive

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

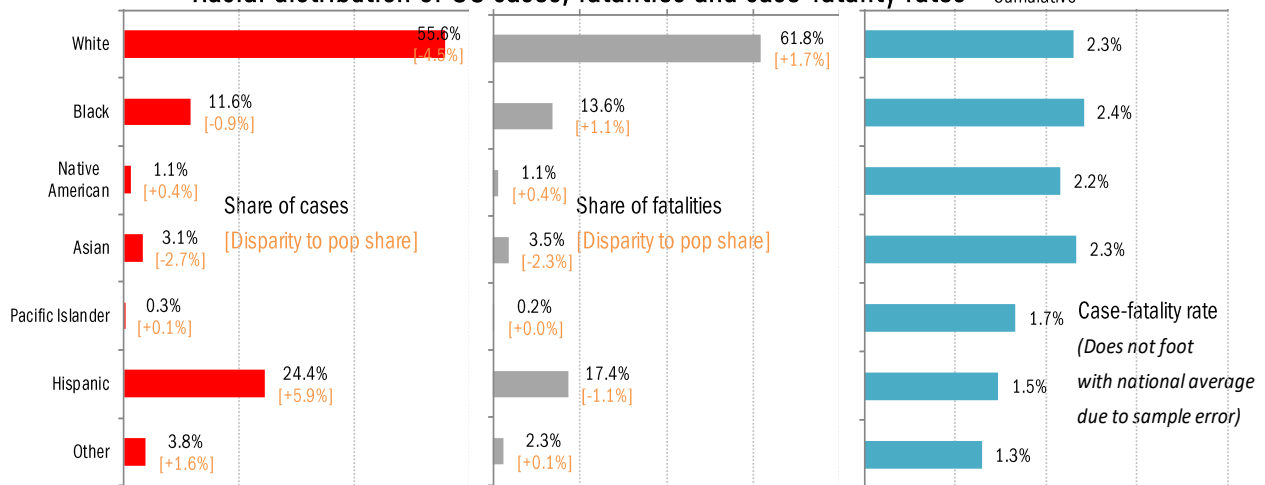


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

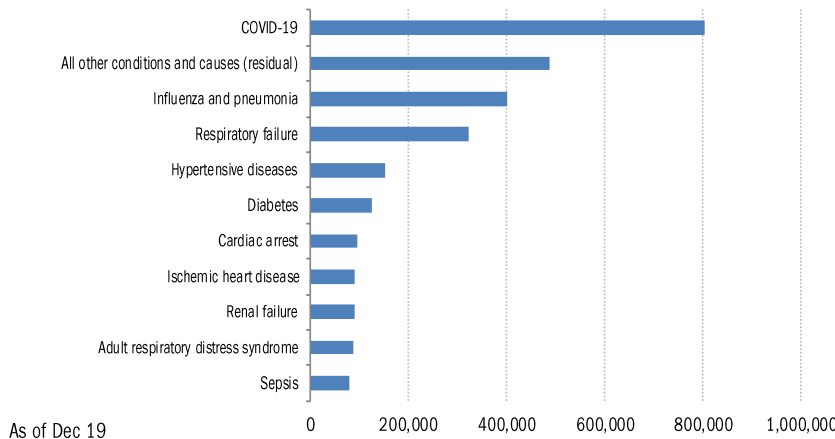


Racial distribution of US cases, fatalities and case-fatality rates



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

### [South Africa Sets a Covid Example](#)

*Wall Street Journal*

December 28, 2021

### [CDC lowers estimate of omicron prevalence in US](#)

Nathaniel Weixel

*The Hill*

December 28, 2021

### [NJ to pay \\$52.9M to families of vets who died of COVID in state-run homes](#)

Patrick Reilly

*New York Post*

December 23, 2021

### [Israel Considers 4th Vaccine Dose, but Some Experts Say It's Premature](#)

Isabel Kershner

*New York Times*

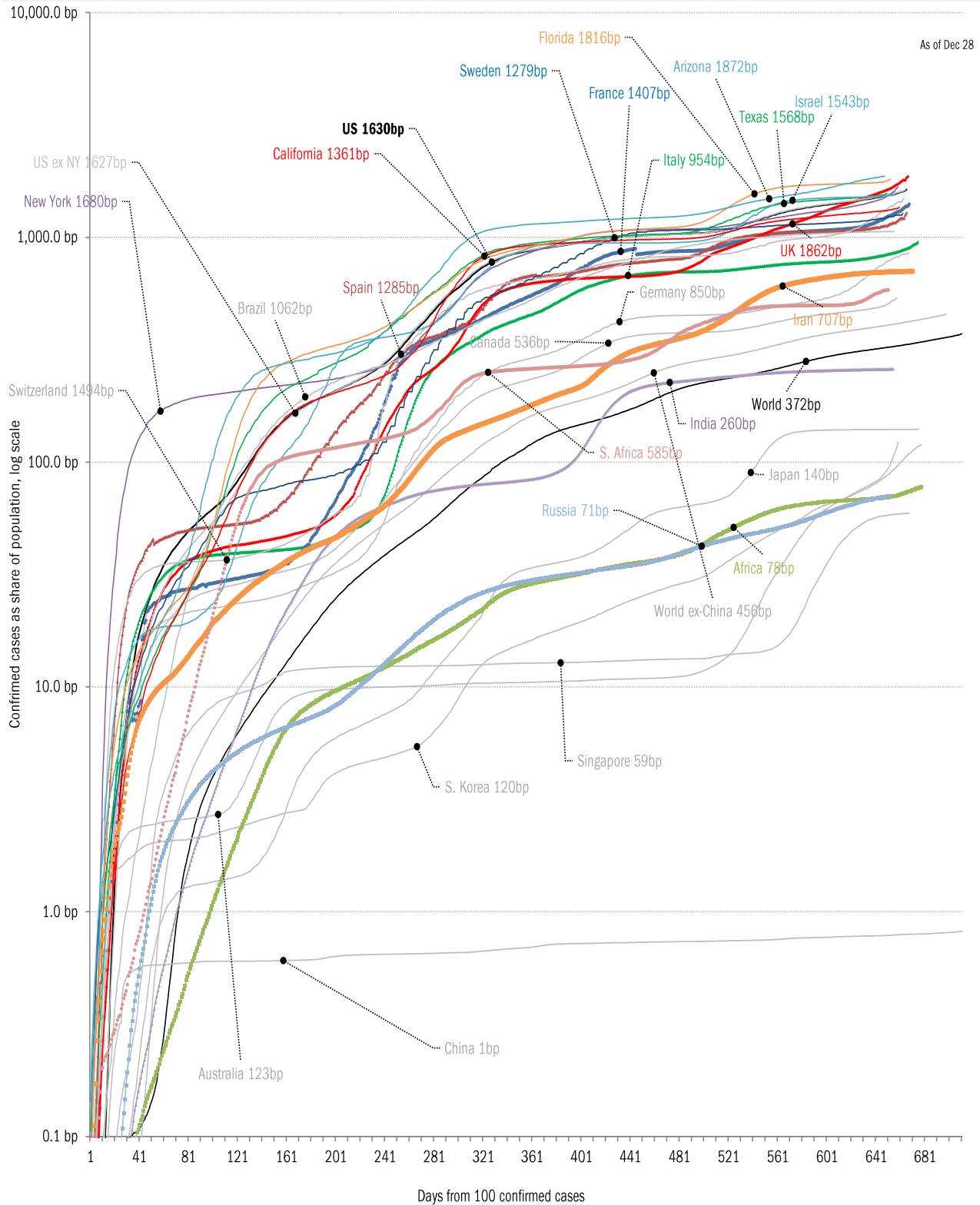
December 23, 2021

## Meme of the day



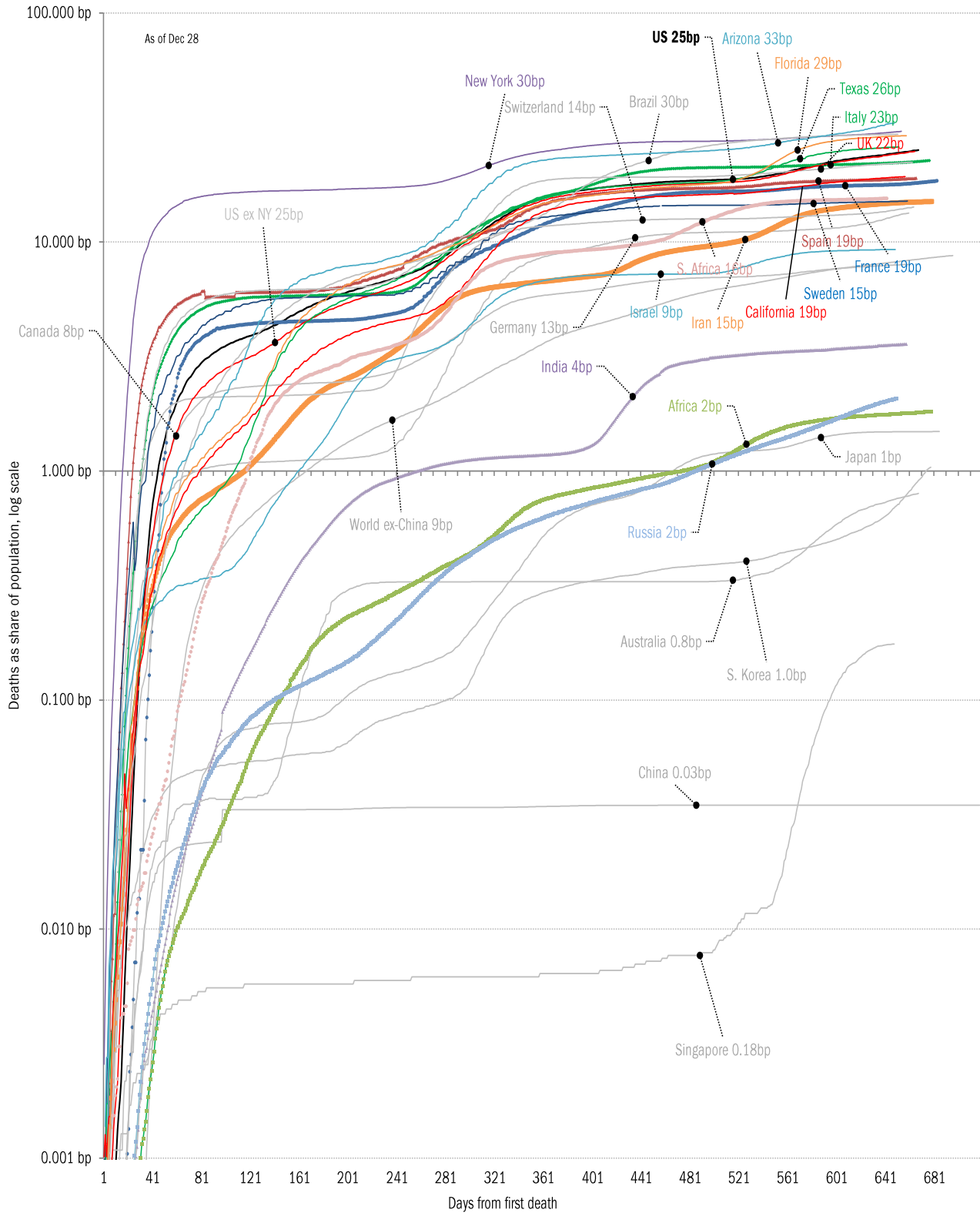
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



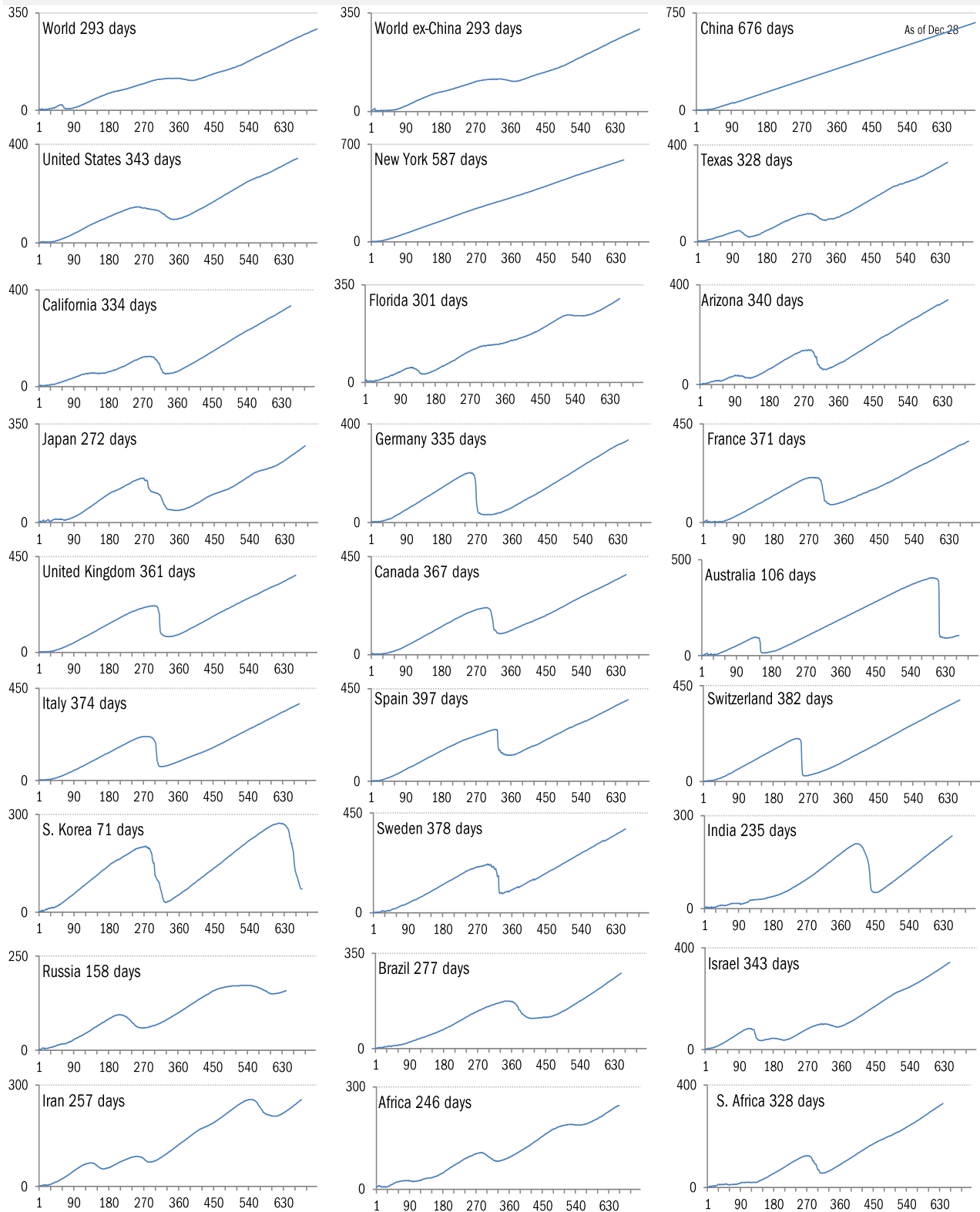
Source: [Johns Hopkins](#), TrendMacro calculations



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

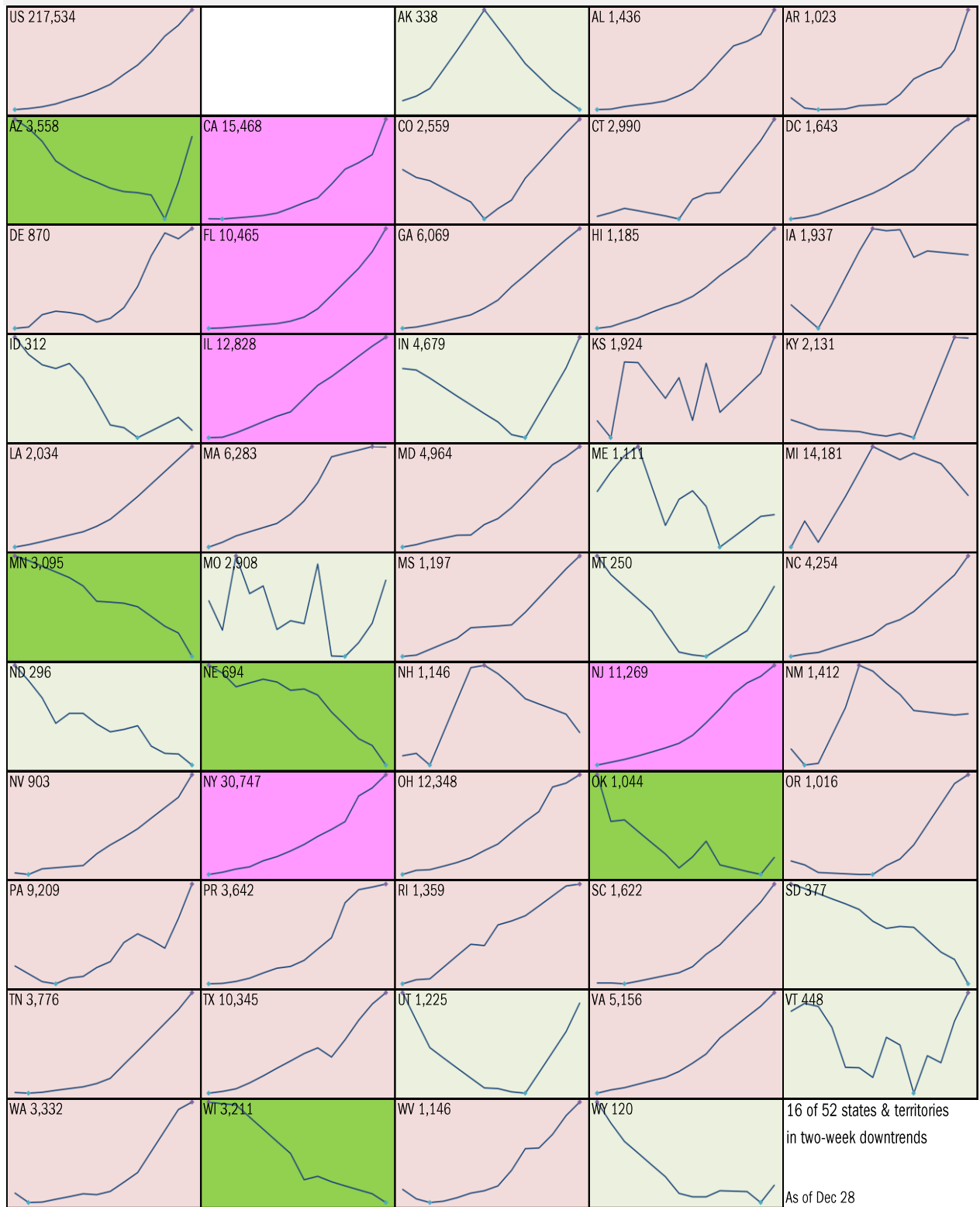
Vertical: days to double deaths Horizontal: days from first death

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

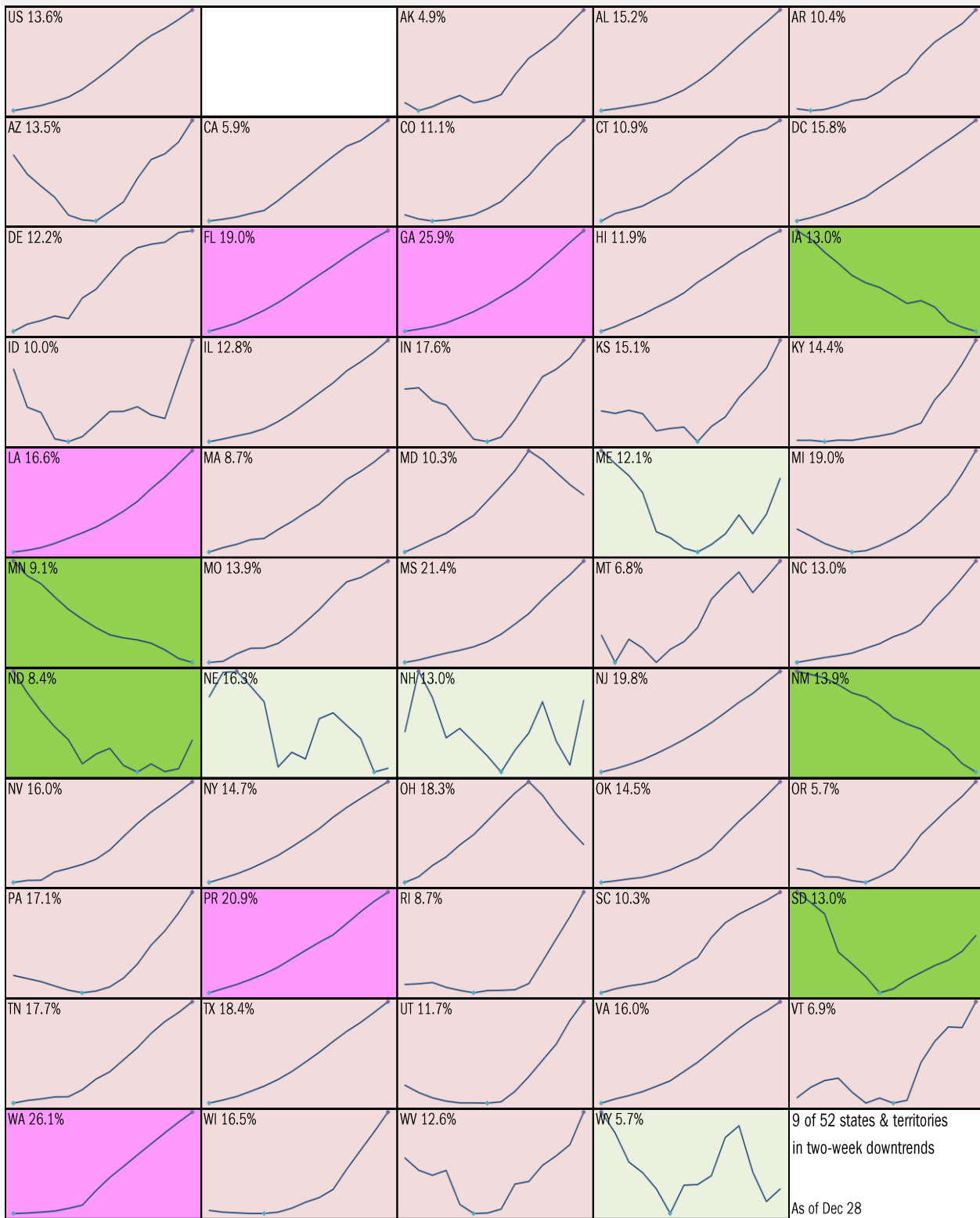


Source: [Johns Hopkins](#), TrendMacro calculations

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

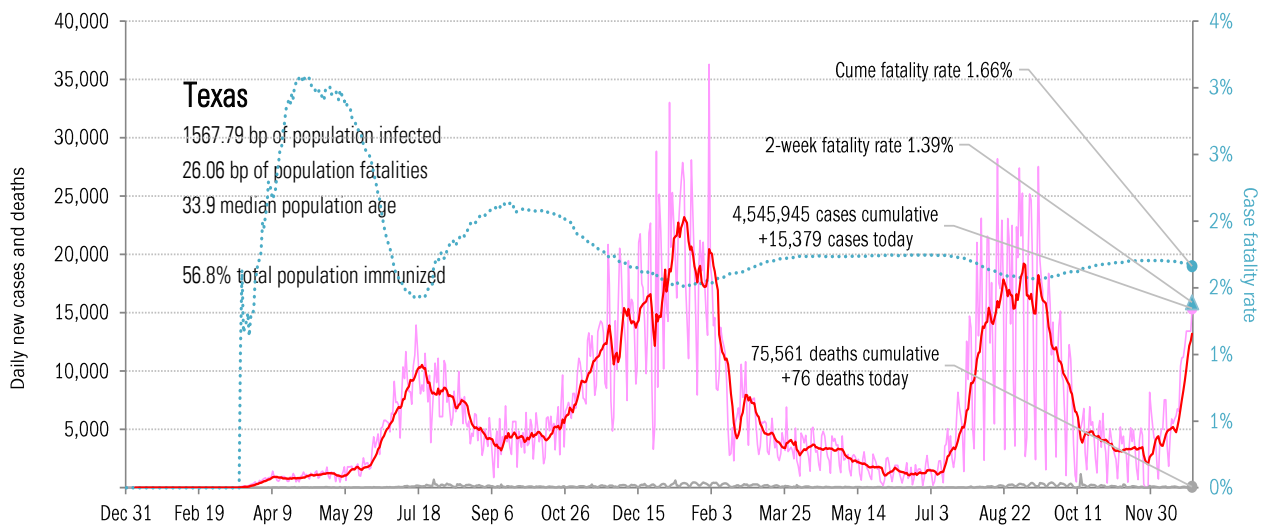
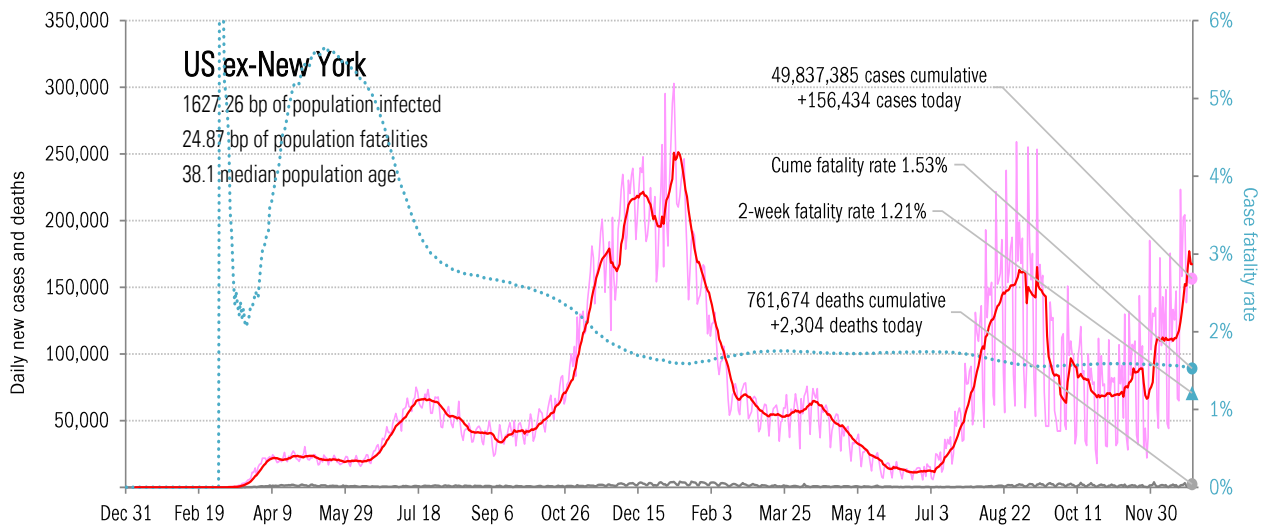
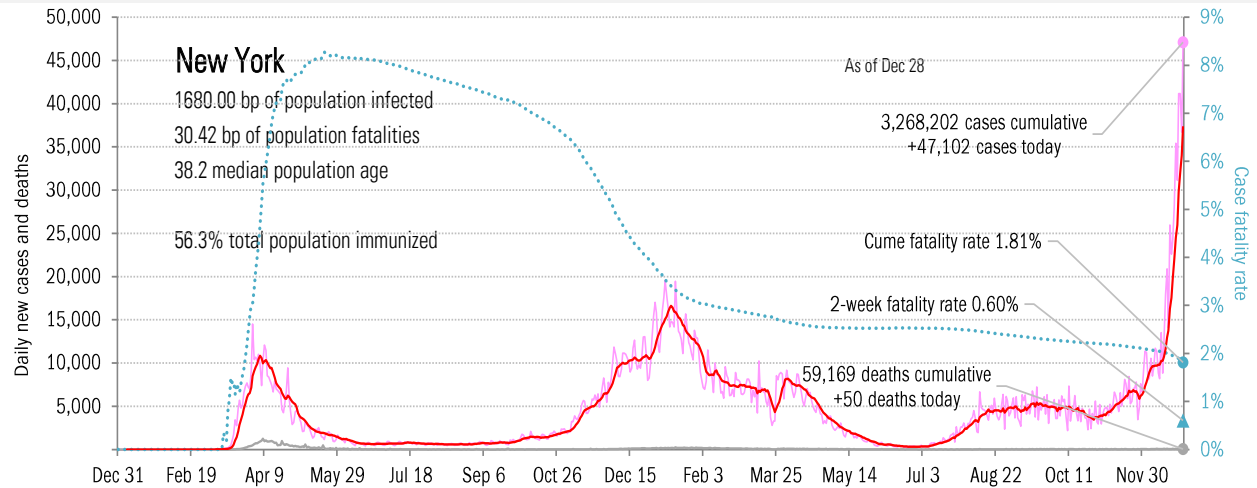
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

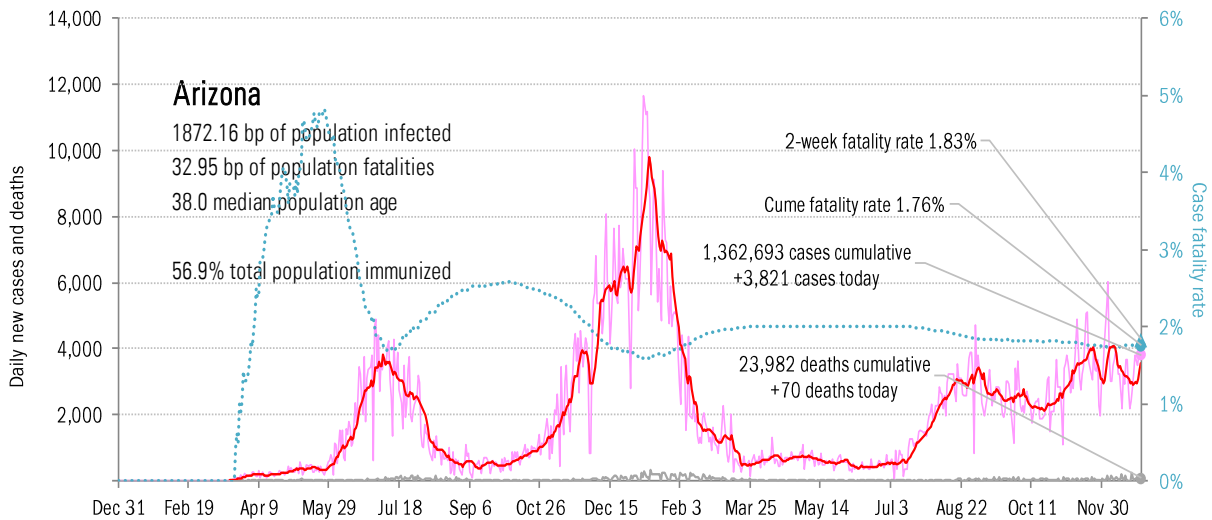
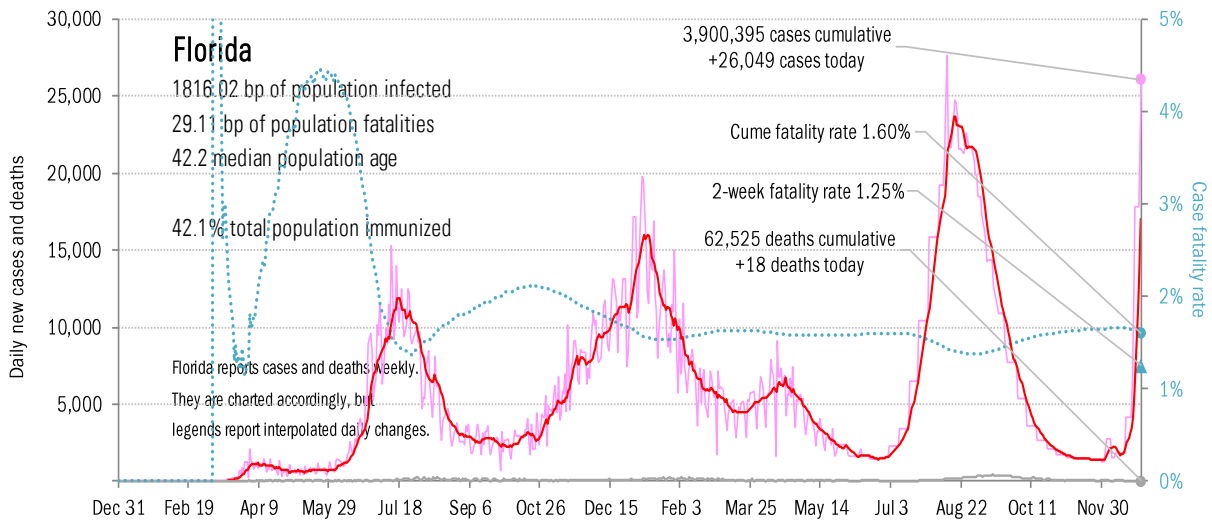
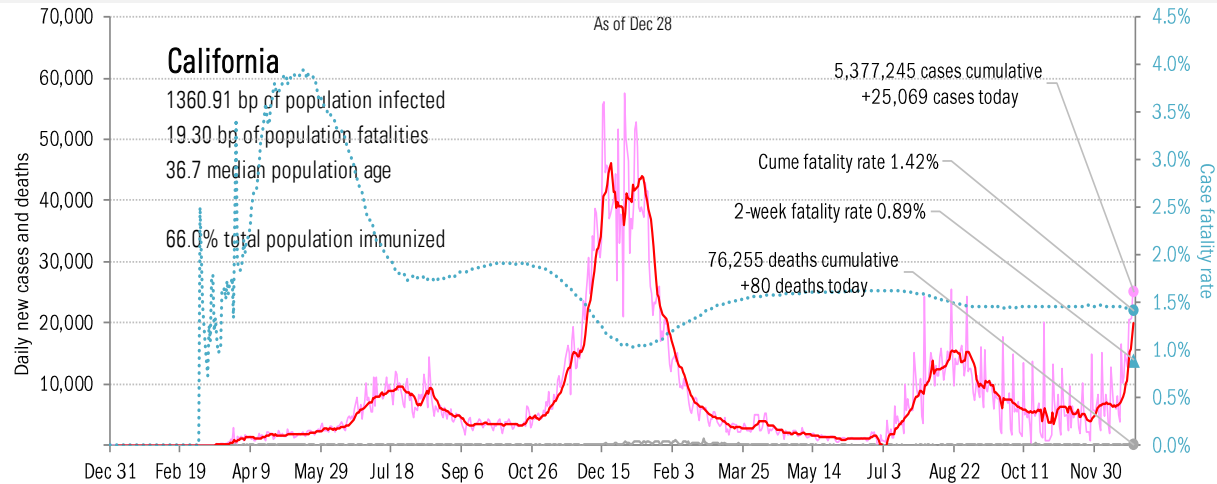
Cases: 7-day average and daily Deaths: Daily



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

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

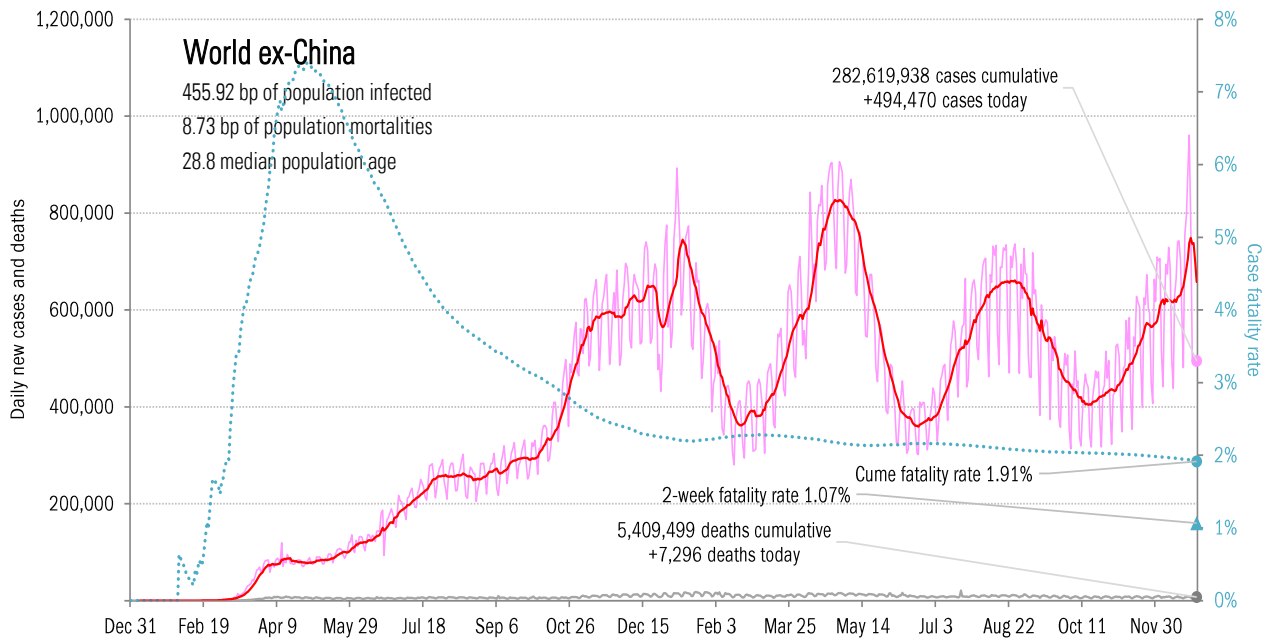
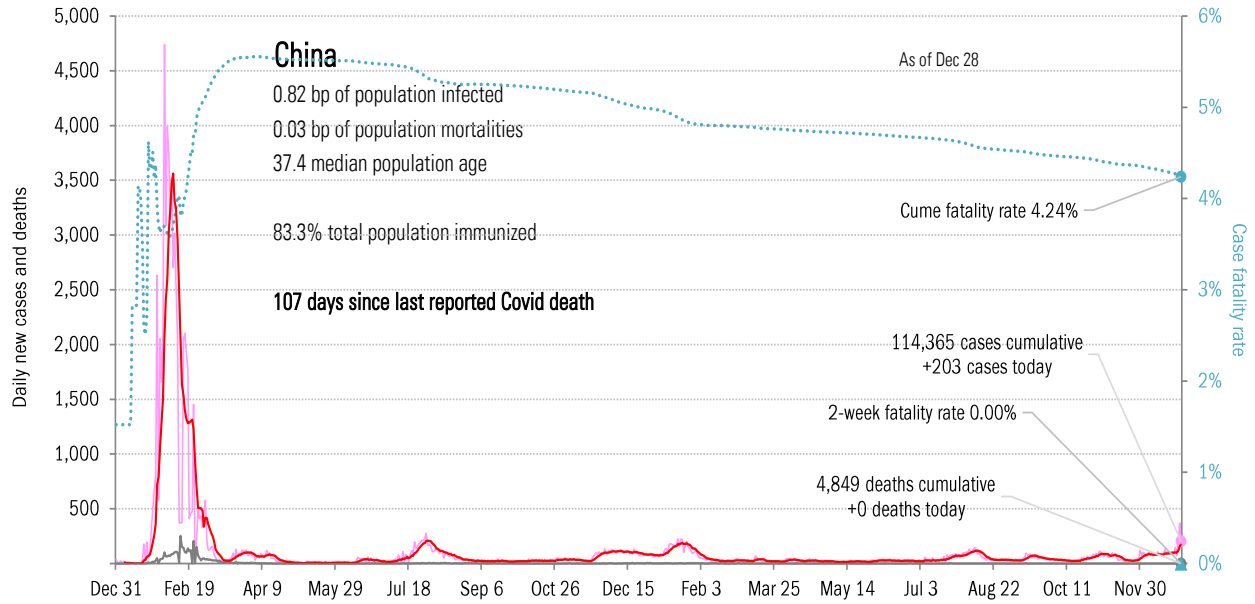
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

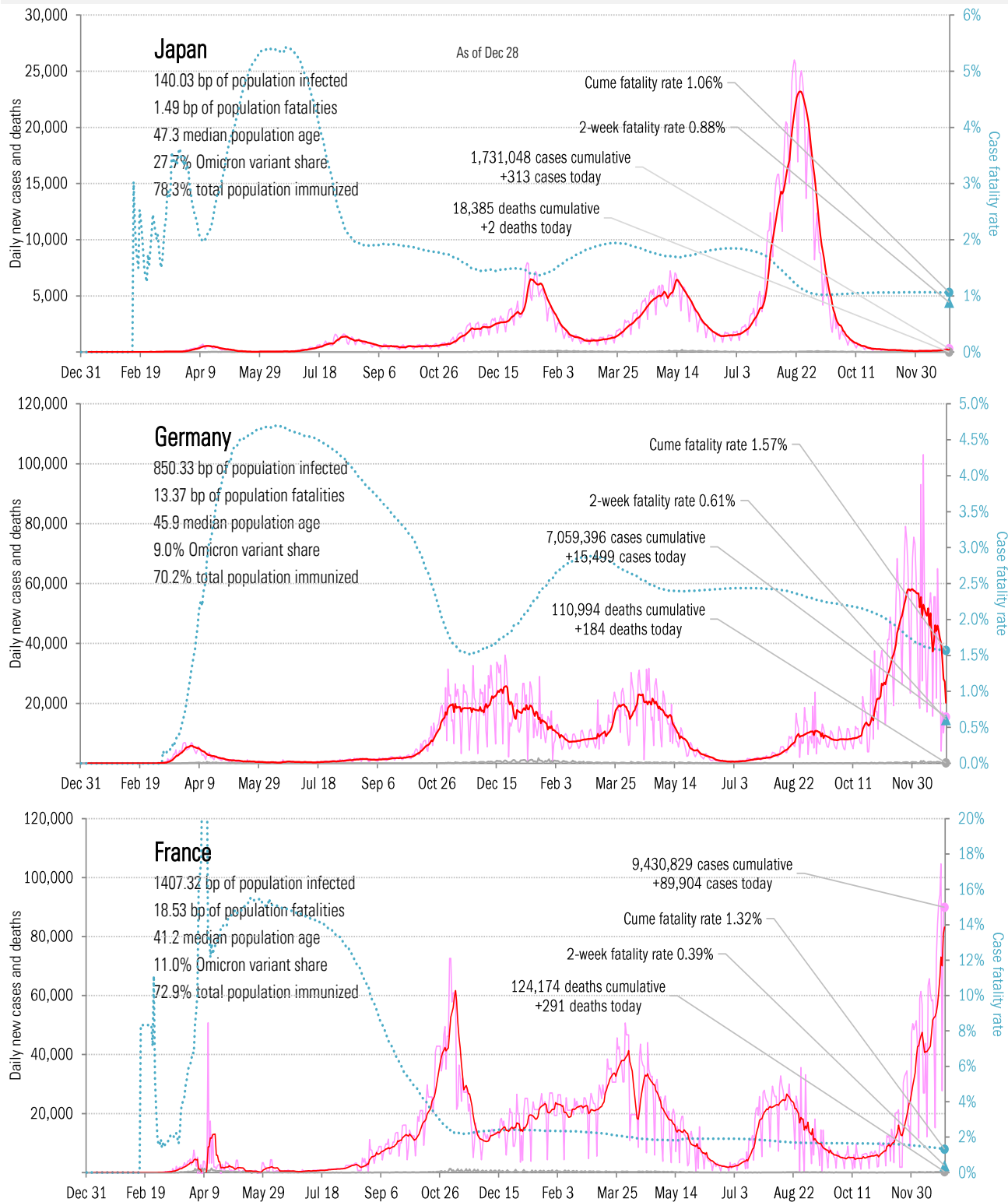
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

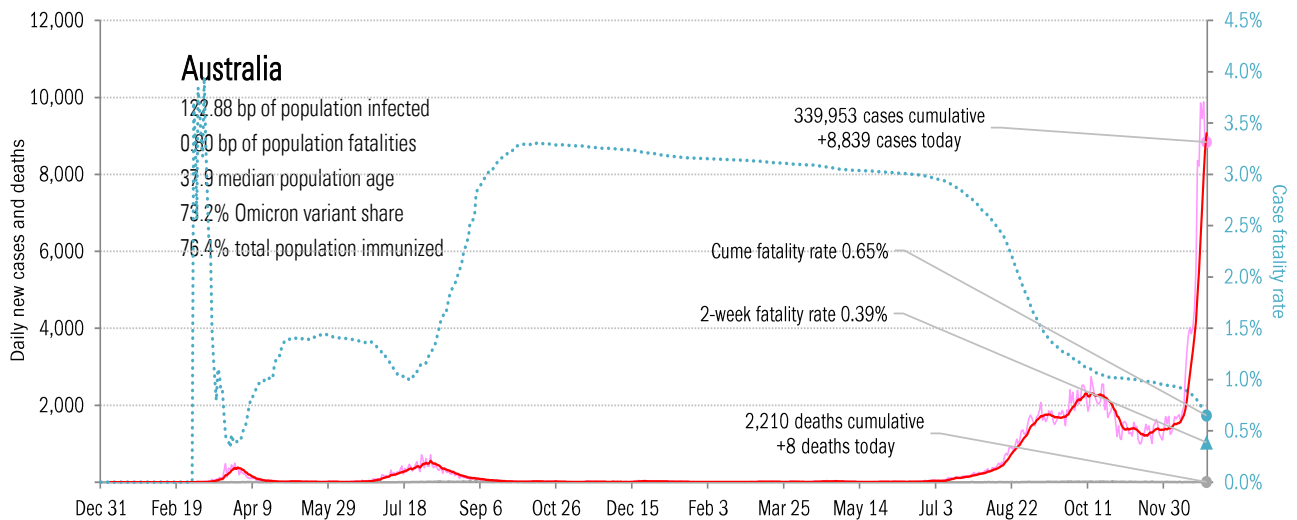
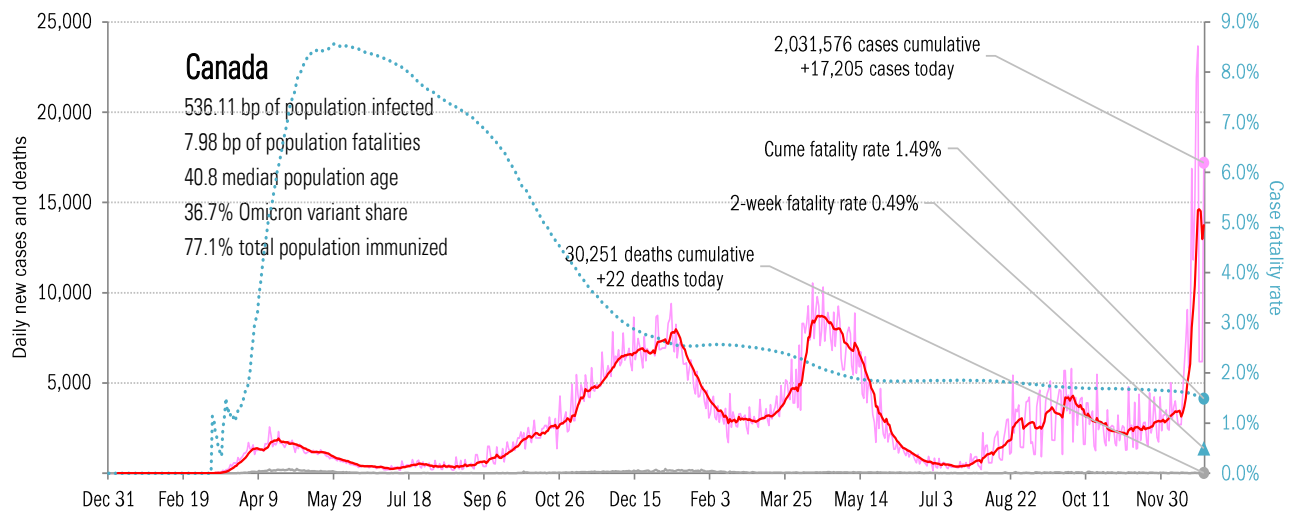
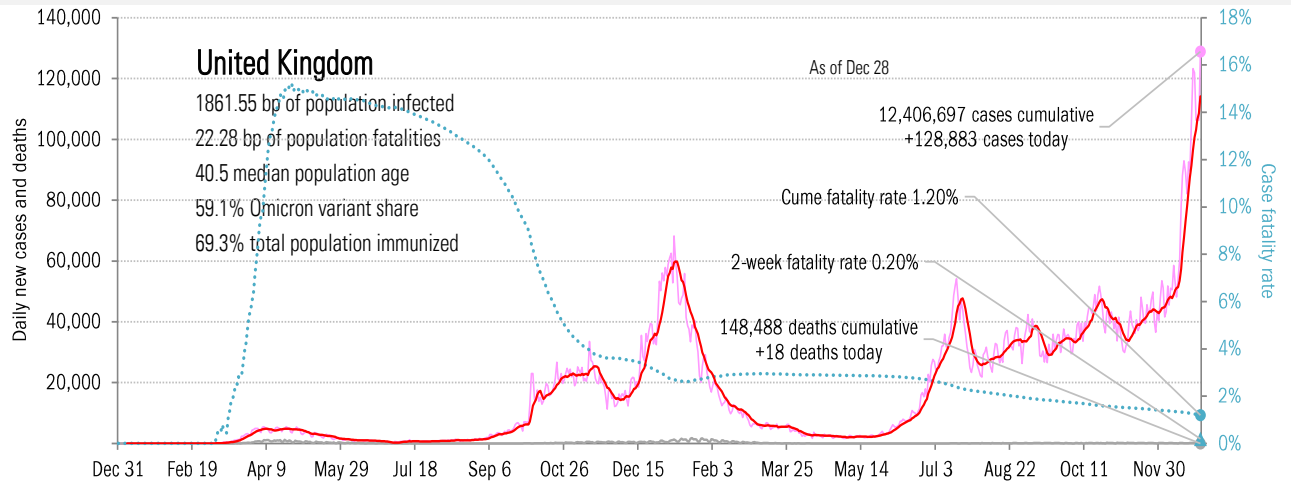
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

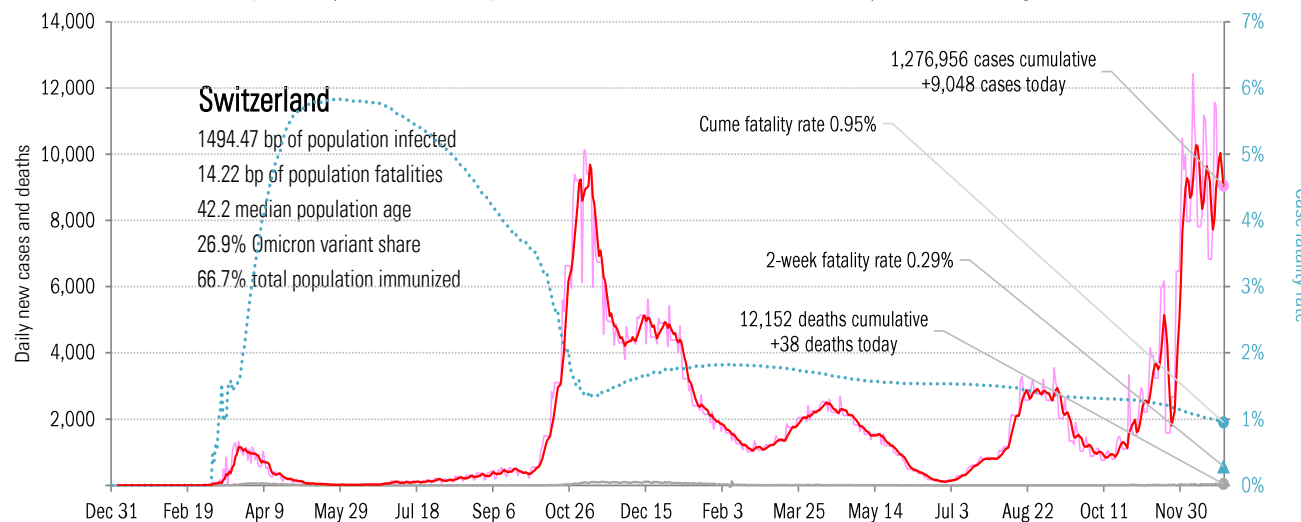
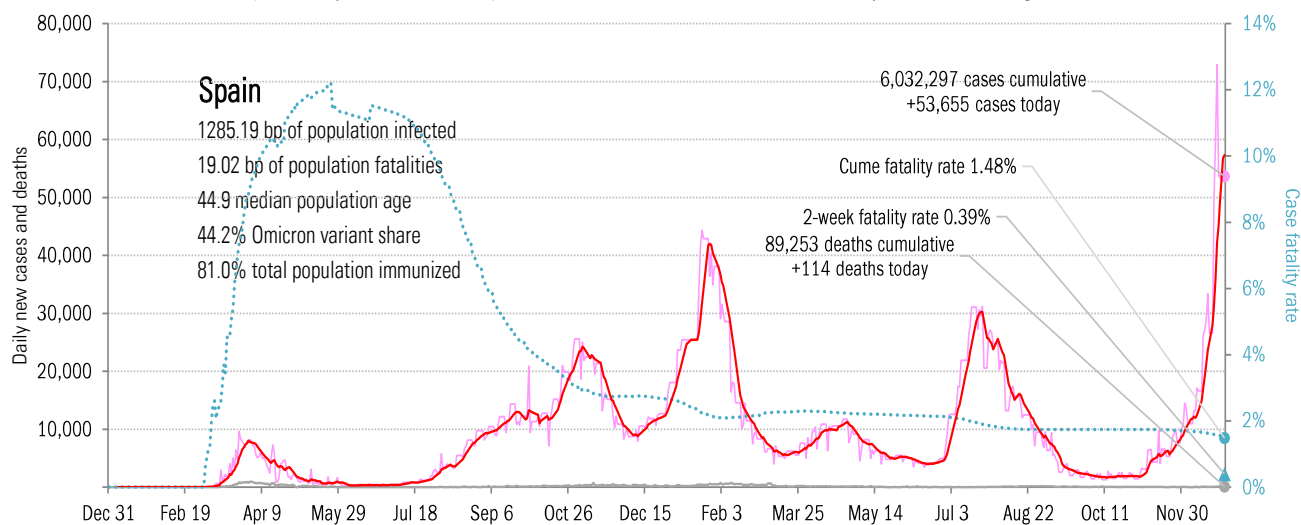
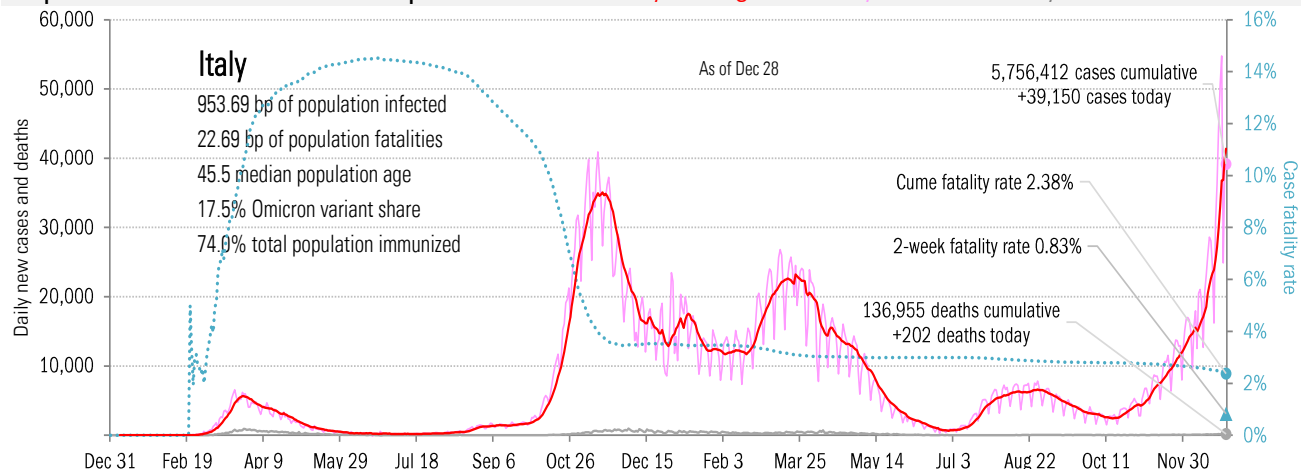


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

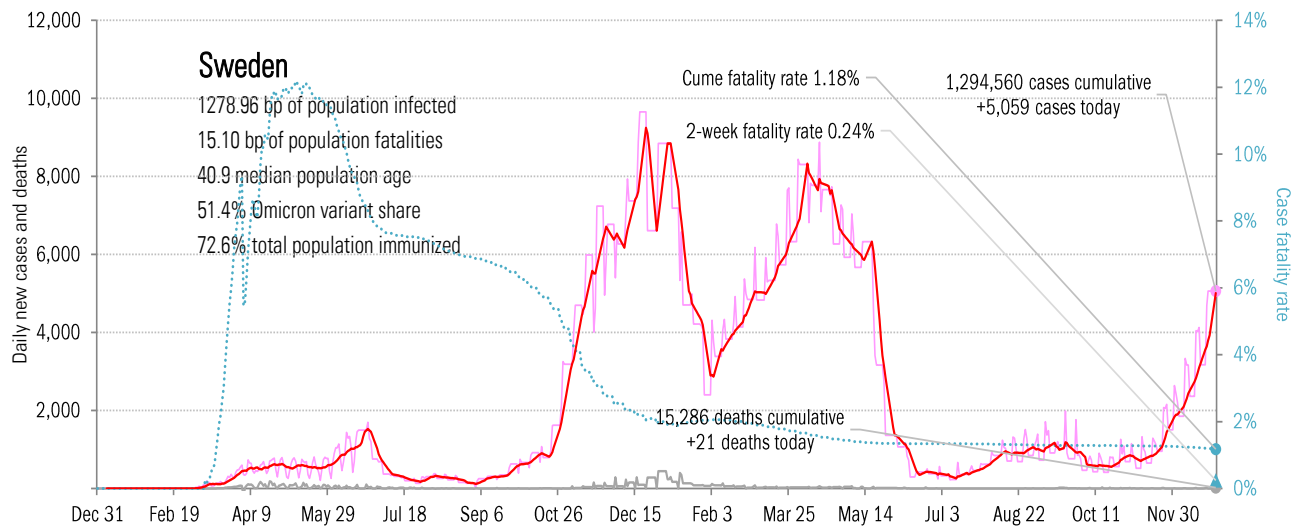
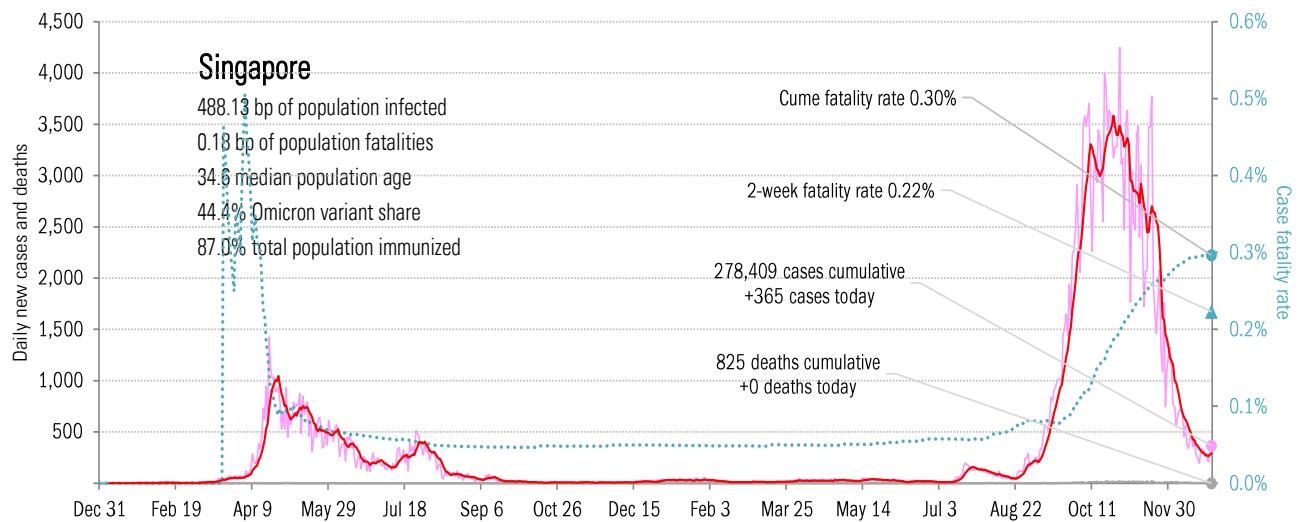
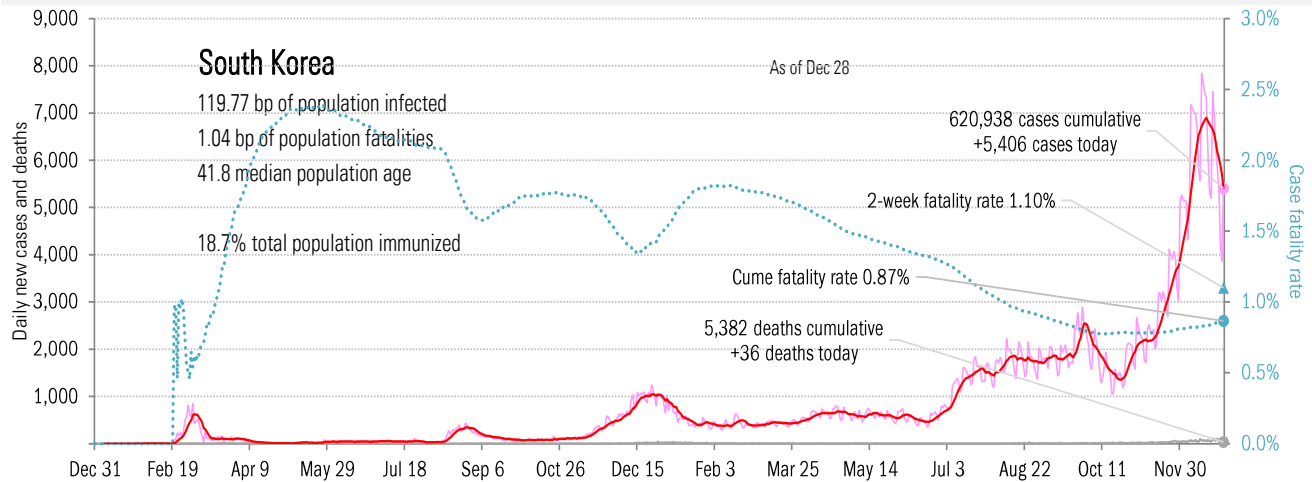
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

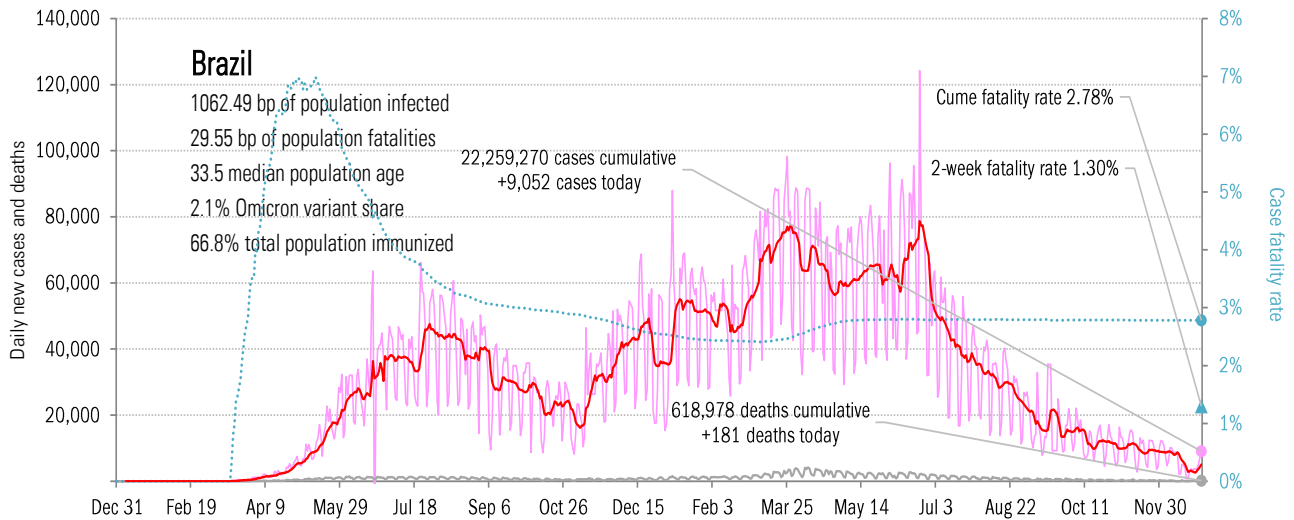
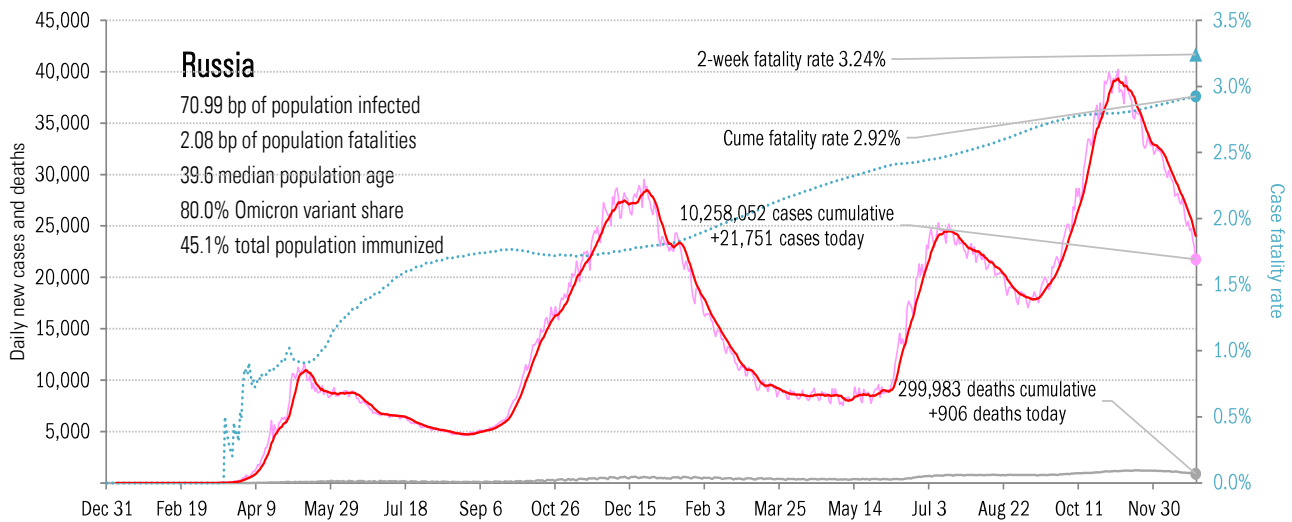
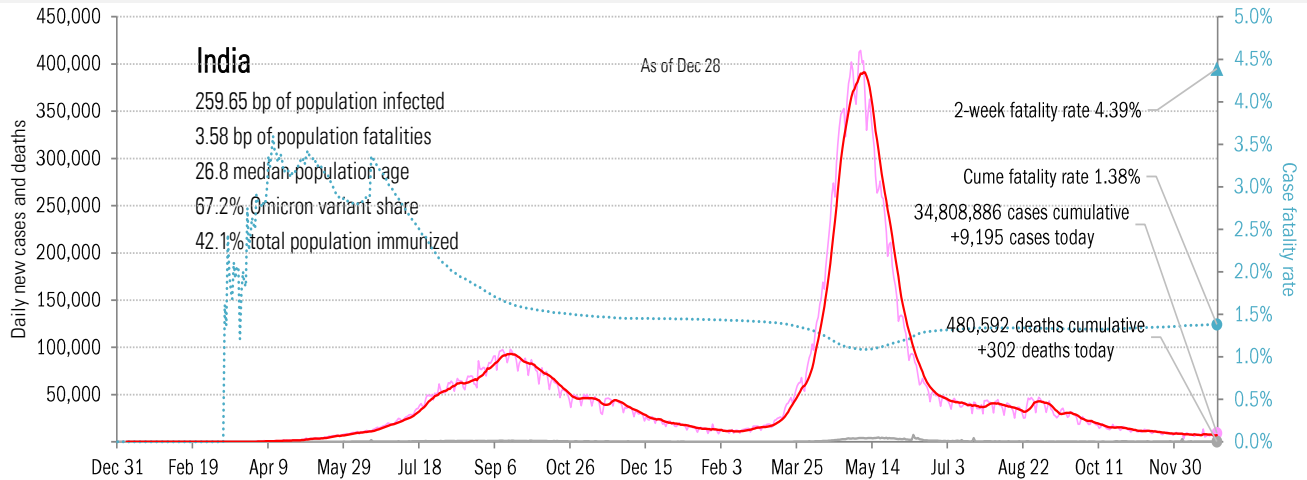
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

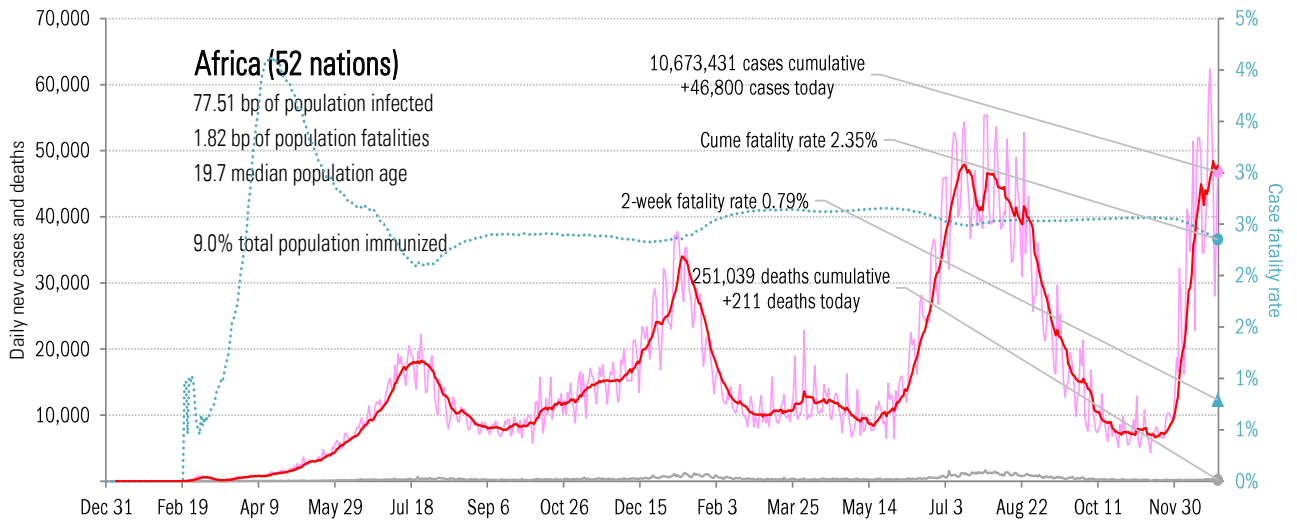
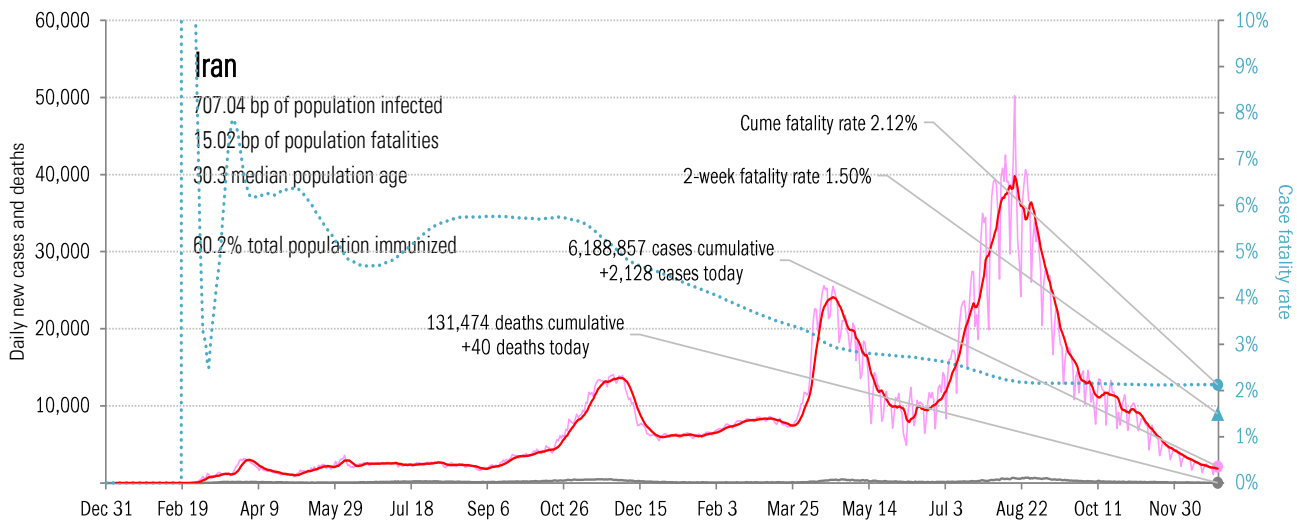
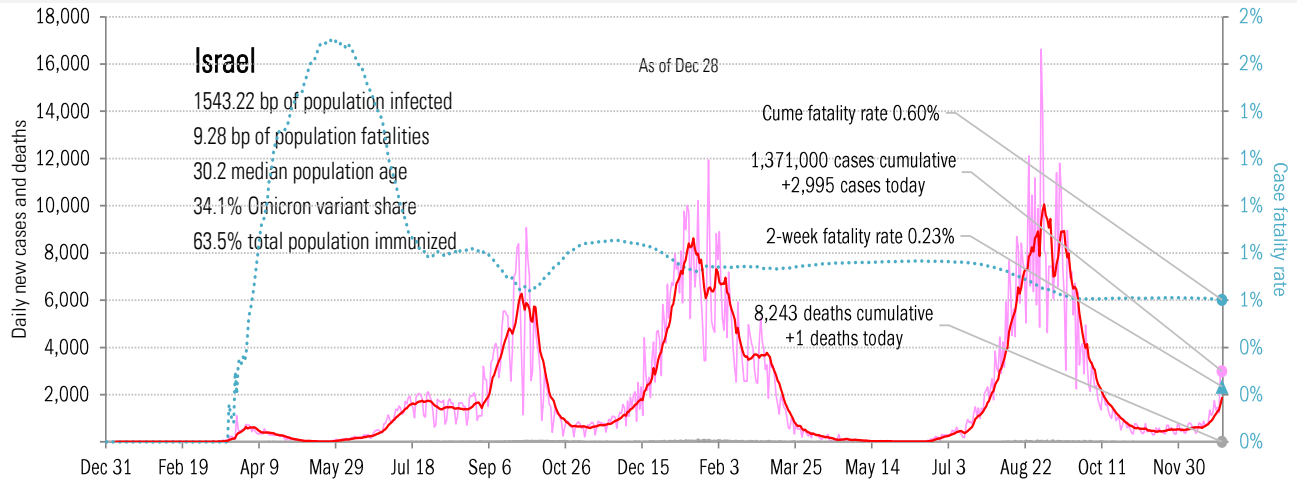
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

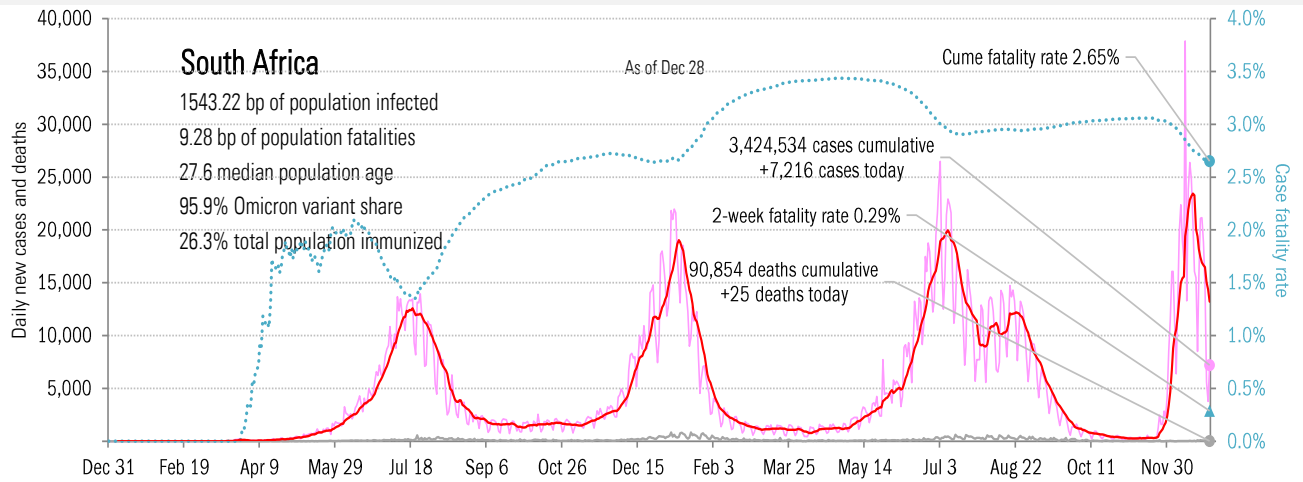
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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