

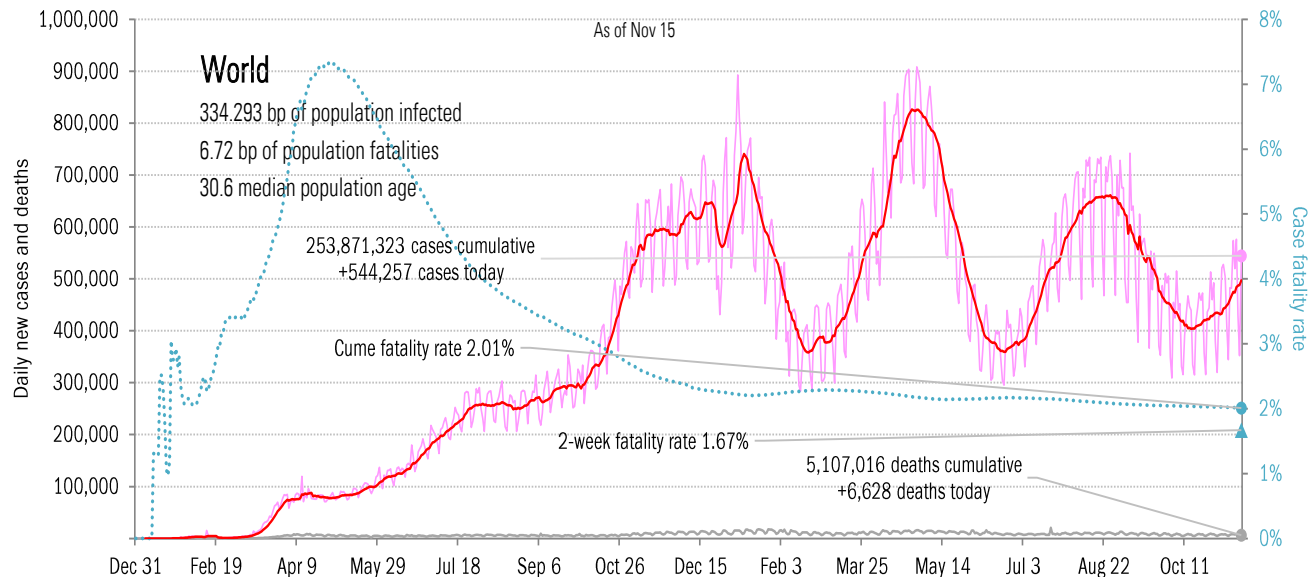
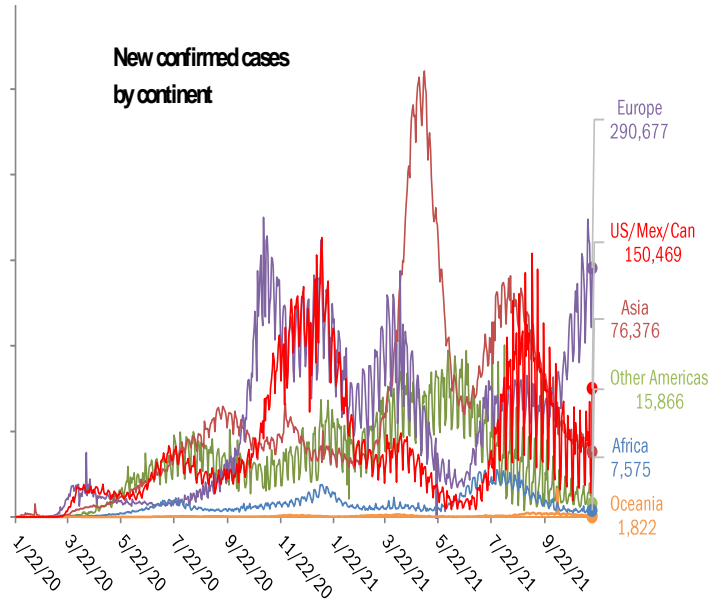
## Data Insights: Covid-2019 Monitor

Tuesday, November 16, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+145,157	Russia	+1,187
United Kingdom	+40,665	United States	+1,185
Russia	+37,210	Ukraine	+466
Germany	+34,958	Hungary	+304
Belgium	+27,762	Bulgaria	+276
Turkey	+23,852	Germany	+266
Hungary	+21,060	Turkey	+215
Netherlands	+19,227	India	+197
Ukraine	+12,012	Romania	+195
Austria	+11,889	Egypt	+132
<b>+373,792</b>		<b>+4,423</b>	
World	+544,257	World	+6,628
Top ten	69%	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

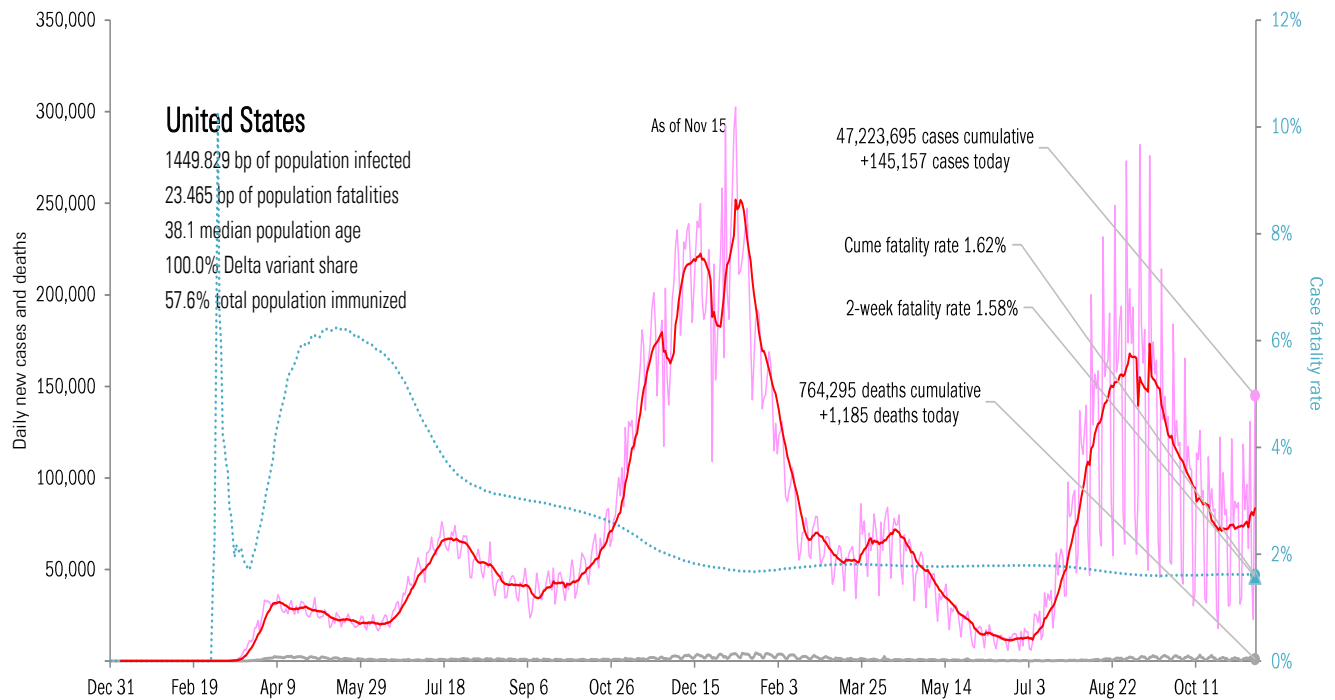
## The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
MI	+23,167		CA	+122		GA	+97		CA	5,012,696		CA	73,233		TX	379,097		RI	92%	NM	94%
IL	+8,922		MI	+100		IL	+97		TX	4,287,302		TX	72,838		FL	320,982		WA	83%	RI	91%
CA	+7,504		CO	+81		MN	+67		FL	3,713,758		FL	60,777		CA	315,646		MA	83%	KY	89%
CO	+7,470		VA	+71		KY	+44		NY	2,633,082		NY	56,976		NY	167,169		MN	83%	TX	87%
WI	+7,069		KY	+66		PA	+35		IL	1,744,508		PA	32,411		GA	161,517		PA	83%	AL	86%
NY	+6,560		FL	+61		IN	+34		GA	1,649,520		GA	29,871		CH	128,081		MD	83%	NE	85%
IN	+5,996		WA	+56		NE	+30		PA	1,648,285		IL	28,550		PA	120,732		CT	82%	NH	84%
MA	+5,846		OR	+53		MT	+28		CH	1,608,415		NJ	28,177		KY	112,597		MI	81%	MN	83%
MN	+5,262		SC	+50		AZ	+22		NC	1,506,576		CH	25,643		IL	107,212		MO	80%	MI	82%
NC	+4,775		TX	+49		MA	+22		MI	1,370,035		MI	24,408		MI	96,217		NY	80%	NV	82%
<b>+82,571</b>			<b>+709</b>			<b>+476</b>			<b>25,174,177</b>			<b>432,884</b>			<b>1,909,250</b>						
All states	+145,157			+1,185			+474		All states	47,223,695			764,295			3,422,952		All states	70%		67%
Top ten	57%			60%			100%		Top ten	53%			57%			56%		Median	75%		76%

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
PA	-3,041	PA	-24	MI	-142	NH	+20 bp
NJ	-339	KS	-4	CO	-67	AR	+10 bp
AZ	-312	MD	-4	CH	-66	AZ	+10 bp
MO	-228	AZ	-2	FL	-54	CA	+10 bp
WV	-184	H	-1	IA	-54	CO	+10 bp

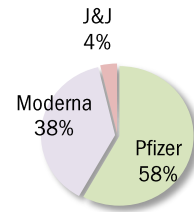


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	454,212,603	+1.457 million	US	57.6%	67.5%
Boosters	30,579,922	+0.737 million	UK	67.5%	74.2%
	<b>One dose</b>	<b>% Pop</b>	<b>Immune</b>	<b>% pop</b>	<b>New immune today</b>
Total population	232,888,868	70%	200,318,172	60%	+0.156 million
Age 12 to 17	14,436,817	61%	12,126,256	51%	+0.015 million
Age 18 to 64	159,820,828	79%	138,480,518	68%	+0.116 million
Age 65 and over	56,122,457	100%	48,775,837	89%	+0.024 million

France	68.7%	76.3%
Spain	80.2%	81.6%
Germany	67.0%	69.5%
Italy	72.6%	77.7%
Australia	69.6%	76.0%
Israel	62.0%	67.4%
Canada	75.4%	79.0%
Japan	75.8%	78.8%
Africa	6.6%	9.8%
India	26.8%	54.1%
Brazil	59.8%	75.9%
China	74.4%	82.1%



**State**

At least partial immunity as % population

Full immunity as % population

**Best**

**Middle**

**Worst**

Every American >18 immunized in **189 days** by May 22, 2022

72.5% of population >18 immunized

16.8% previously tested positive

**89.3%** vs 60% adult herd immunity

**AK**  
61.1%  
53.5%

**WI**  
64.3%  
59.0%

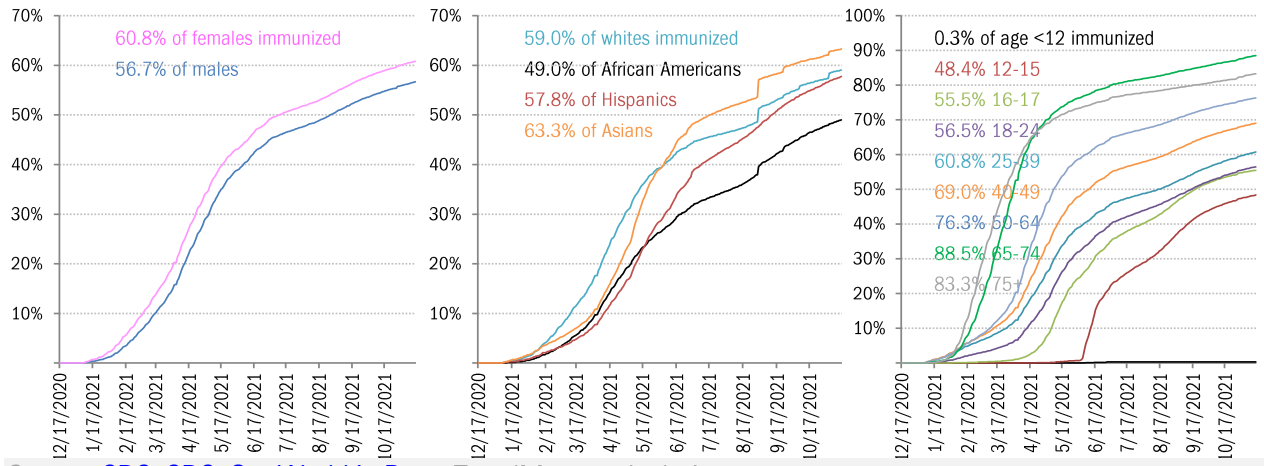
**ME**  
79.0%  
71.5%

As of Nov 15

<b>WA</b> 70.5% 64.2%	<b>ID</b> 50.0% 44.6%	<b>MT</b> 58.1% 51.2%	<b>ND</b> 56.4% 48.2%	<b>MN</b> 67.0% 61.9%	<b>IL</b> 67.2% 61.5%	<b>MI</b> 59.7% 54.1%	<b>NY</b> 76.0% 67.7%	<b>VT</b> 82.1% 72.1%	<b>NH</b> 81.3% 63.7%	
<b>OR</b> 69.9% 63.5%	<b>NV</b> 65.0% 53.8%	<b>WY</b> 52.1% 44.8%	<b>SD</b> 63.9% 53.7%	<b>IA</b> 60.9% 56.1%	<b>IN</b> 54.7% 50.3%	<b>OH</b> 57.1% 52.5%	<b>PA</b> 82.1% 61.7%	<b>NJ</b> 77.1% 67.1%	<b>MA</b> 83.0% 70.4%	
<b>CA</b> 76.8% 62.3%	<b>UT</b> 62.0% 54.5%	<b>CO</b> 69.4% 62.5%	<b>NE</b> 62.3% 56.8%	<b>MO</b> 58.3% 50.4%	<b>KY</b> 58.8% 51.5%	<b>WV</b> 49.3% 41.2%	<b>VA</b> 73.4% 64.1%	<b>MD</b> 74.0% 66.7%	<b>CT</b> 81.6% 71.4%	<b>RI</b> 80.5% 71.7%
	<b>AZ</b> 62.6% 54.0%	<b>NM</b> 74.3% 62.9%	<b>KS</b> 64.4% 54.0%	<b>AR</b> 59.3% 48.8%	<b>TN</b> 55.5% 48.8%	<b>NC</b> 67.1% 53.5%	<b>SC</b> 59.0% 50.8%	<b>DC</b> 77.7% 63.5%	<b>DE</b> 70.2% 60.5%	
			<b>OK</b> 61.2% 50.9%	<b>LA</b> 54.7% 48.3%	<b>MS</b> 52.9% 46.4%	<b>AL</b> 55.4% 45.5%	<b>GA</b> 57.6% 48.8%			
			<b>TX</b> 62.3% 54.1%					<b>FL</b> 70.5% 60.6%	<b>PR</b> 83.7% 74.2%	

**HI**  
80.5%  
60.4%

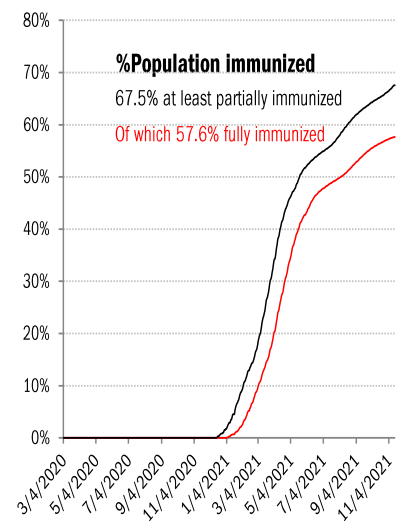
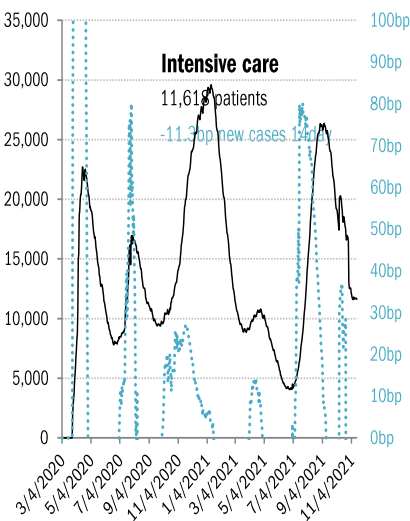
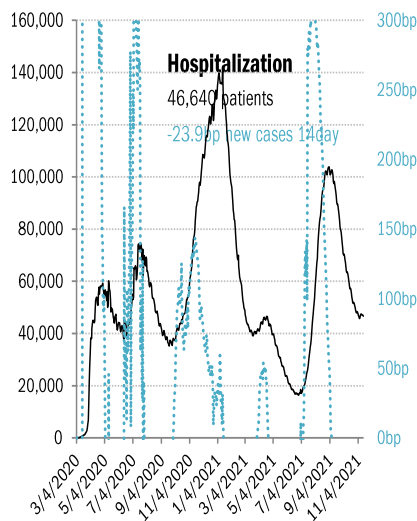
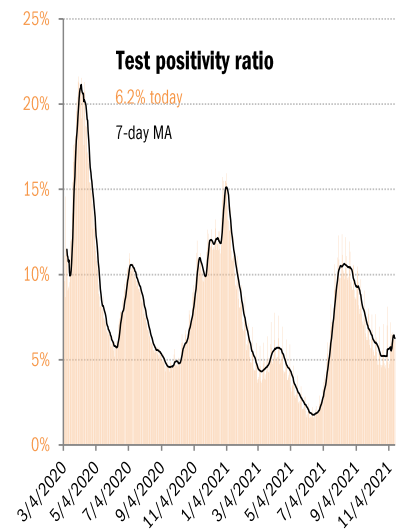
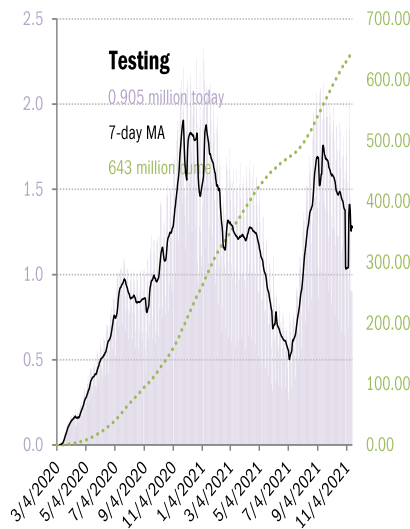
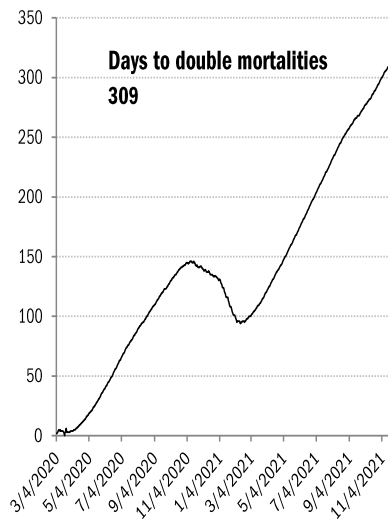
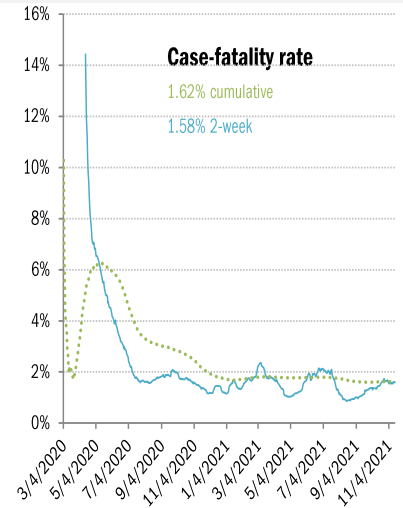
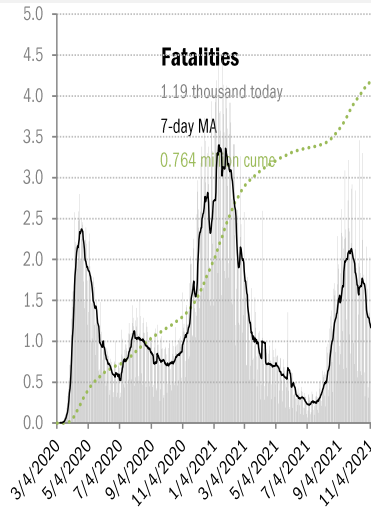
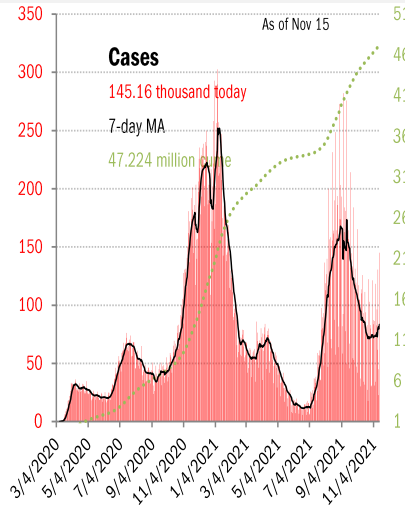
## The demographics of US vaccination



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

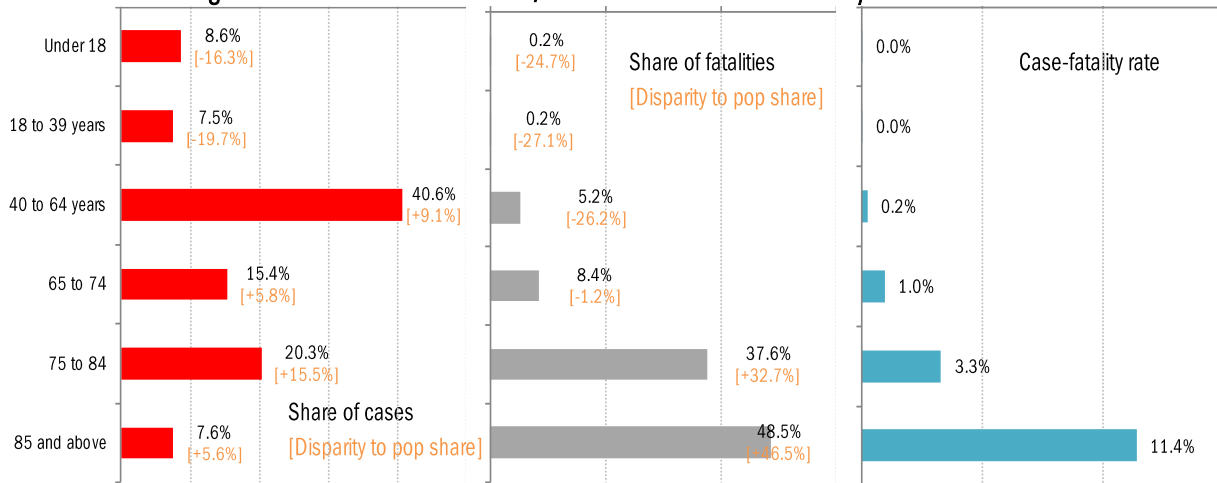
# US deep-dive

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

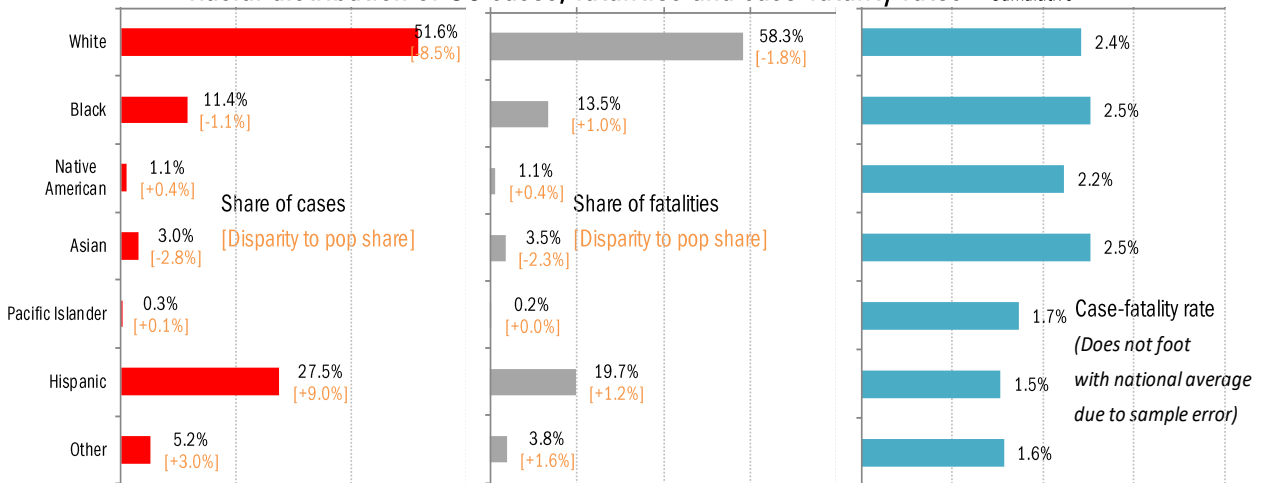


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

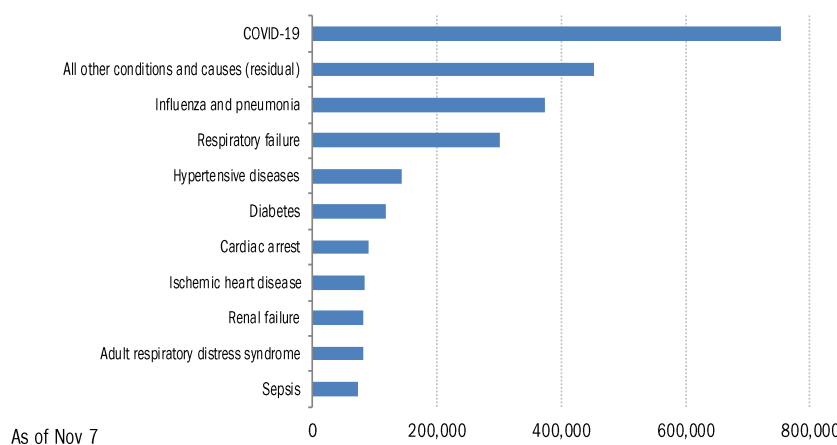


Racial distribution of US cases, fatalities and case-fatality rates



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

[Europe Toughens Rules for Unvaccinated as Fourth Covid Wave Swells](#)

Jason Horowitz  
*New York Times*  
November 15, 2021

[Direct Comparison of Antibody Responses to Four SARS-CoV-2 Vaccines in Mongolia](#)

Naranjargal J. Dashdorj et al.  
*Cell Host & Microbe*  
November 11, 2021

[Pfizer Shot Generated Most Antibodies in Comparative Study](#)

<https://www.bloomberg.com/news/articles/2021-11-15/pfizer-shot-generated-the-most-antibodies-in-a-comparative-study>  
*Bloomberg*  
November 15, 2021

[Brazil surpasses the U.S. in getting people fully vaccinated.](#)

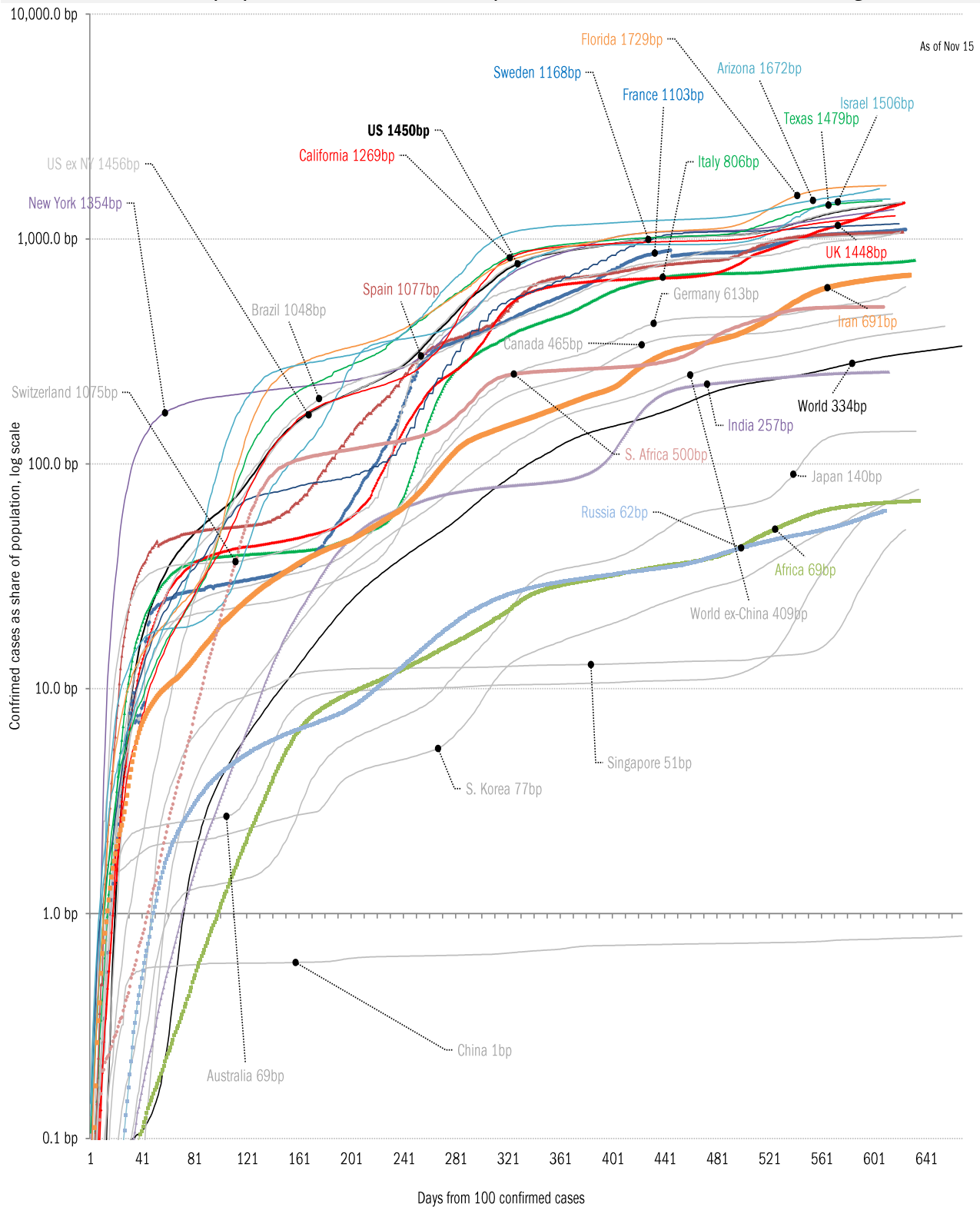
Manuela Andreoni  
*New York Times*  
November 15, 2021

## Meme of the day



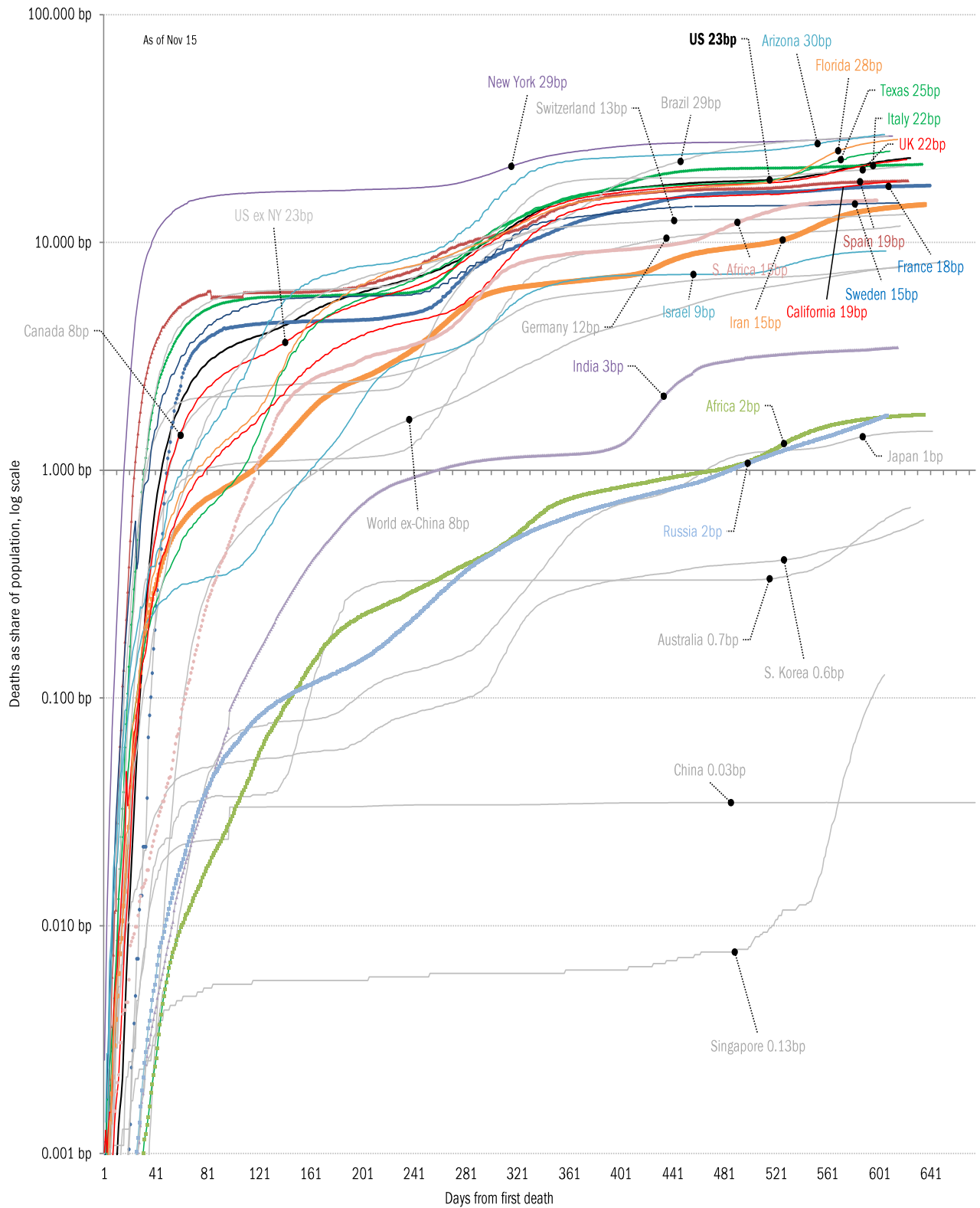
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



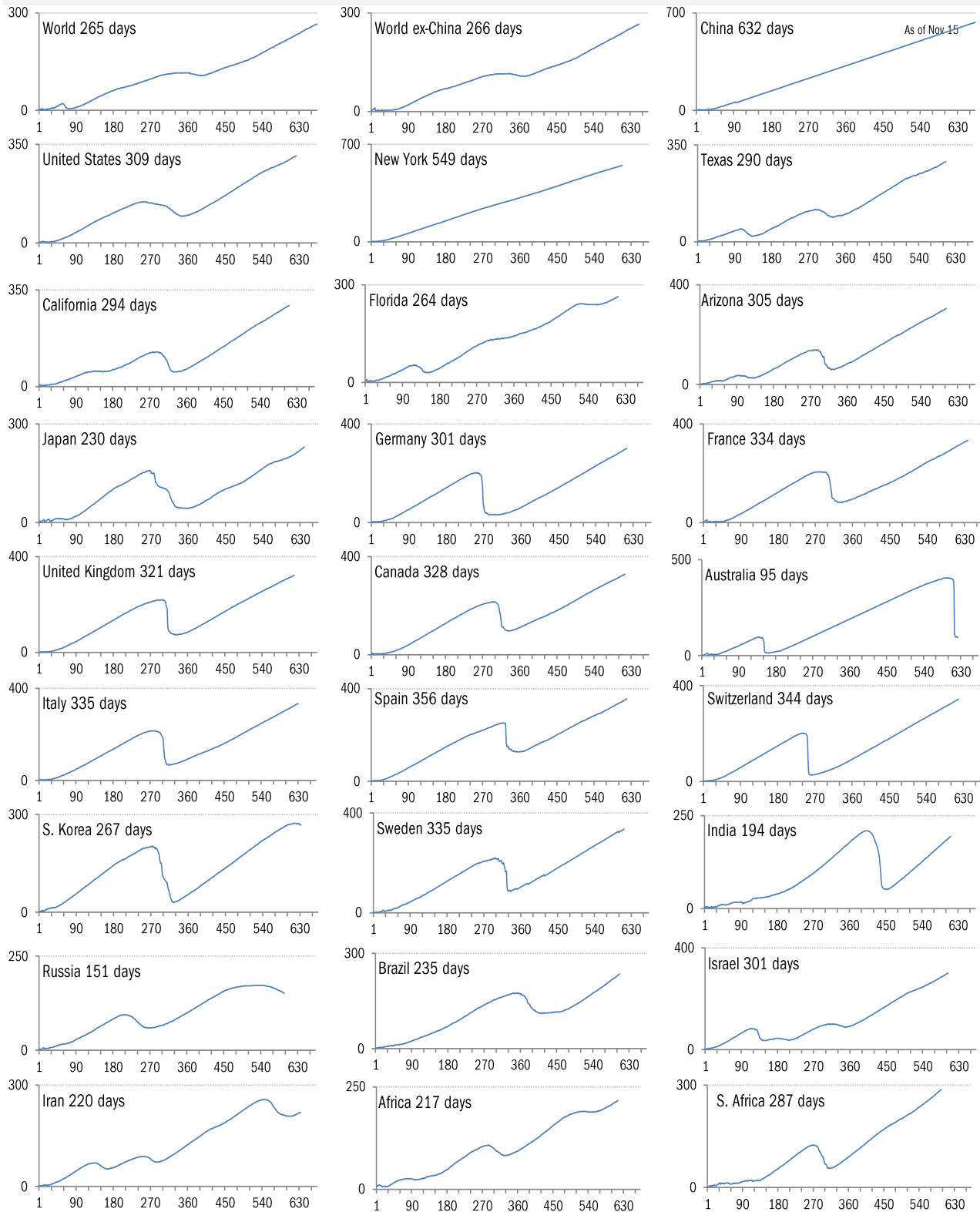
Source: [Johns Hopkins](#), TrendMacro calculations



# "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

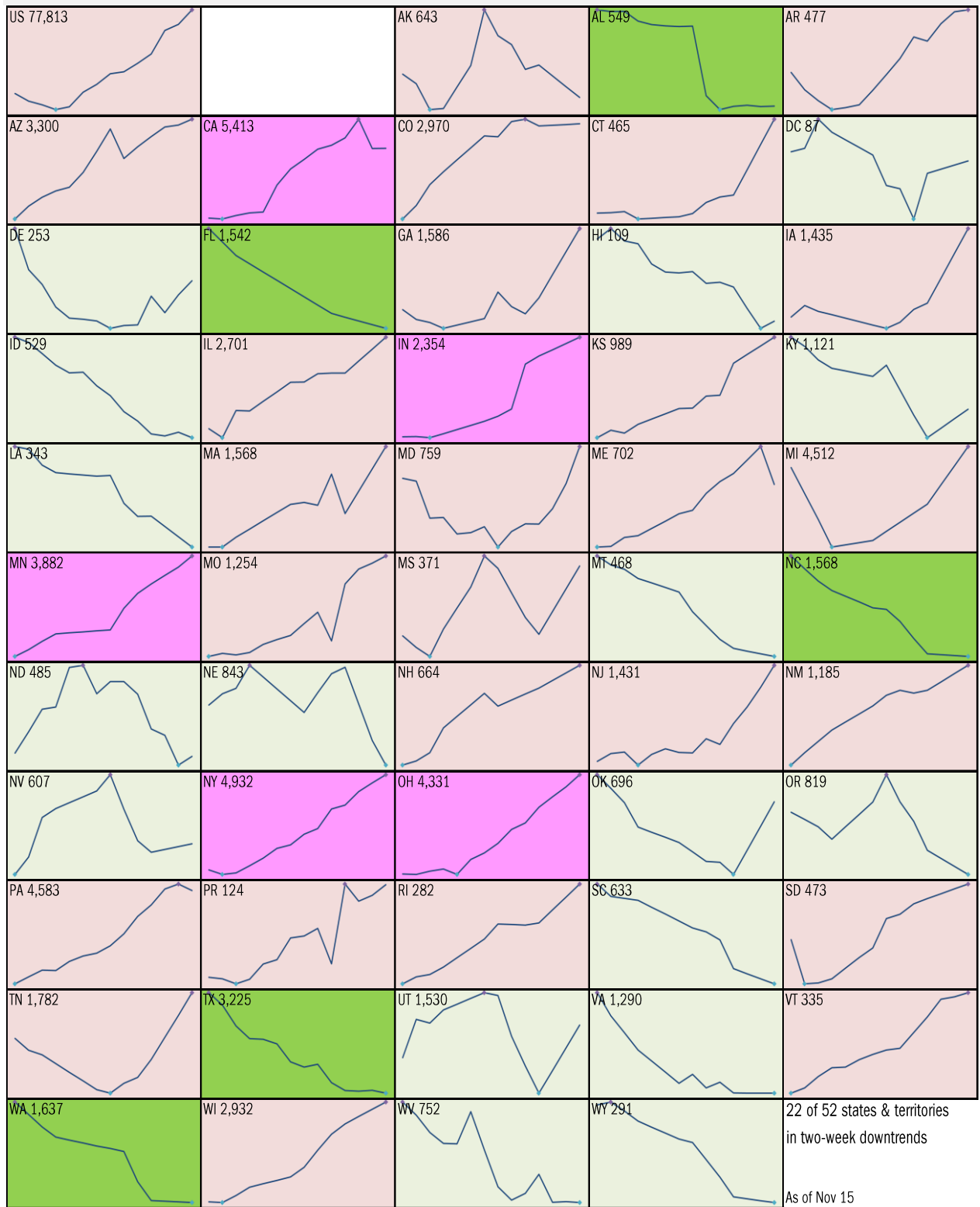


Source: [Johns Hopkins](#), TrendMacro calculations

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

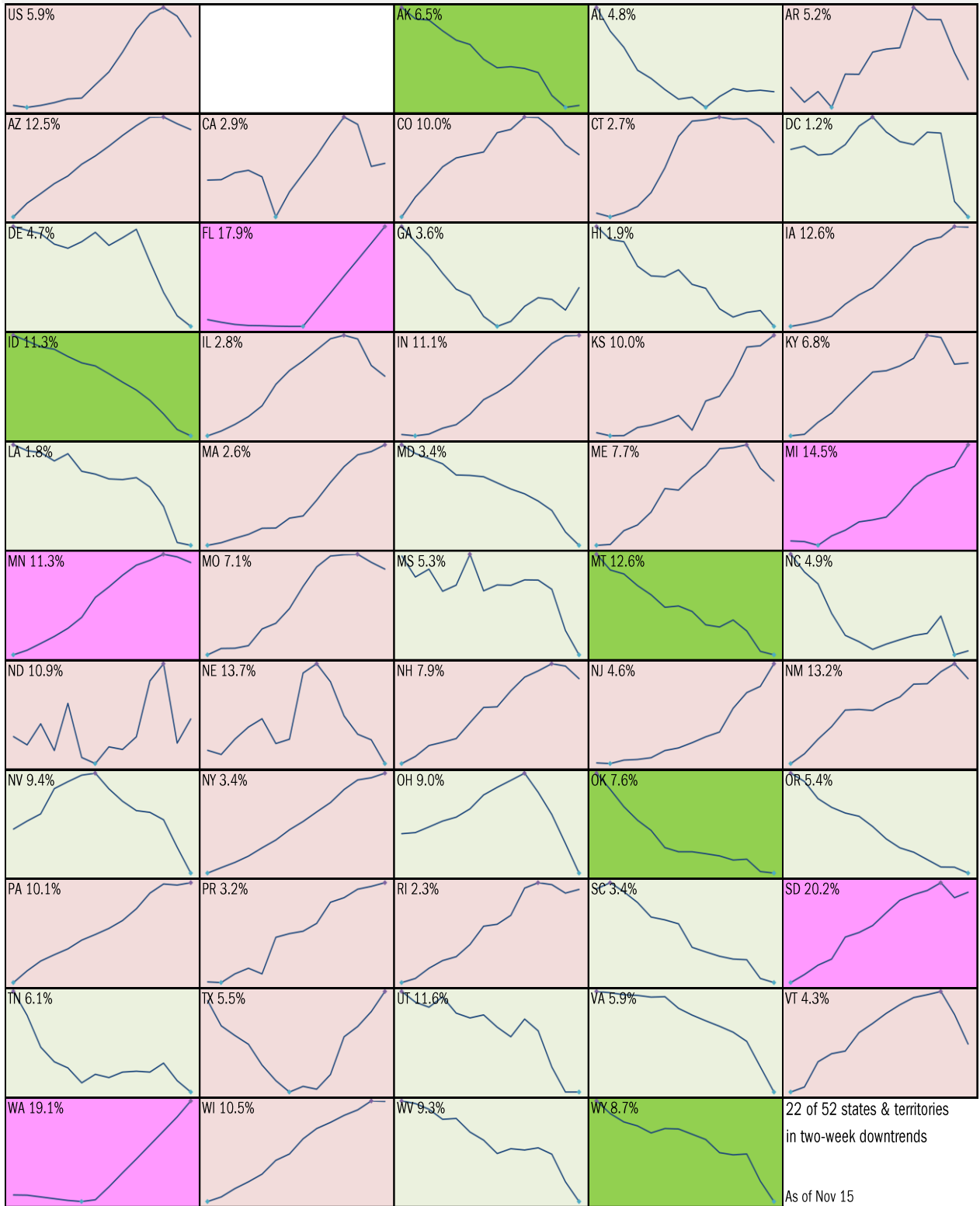


Source: [Johns Hopkins](#), TrendMacro calculations

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

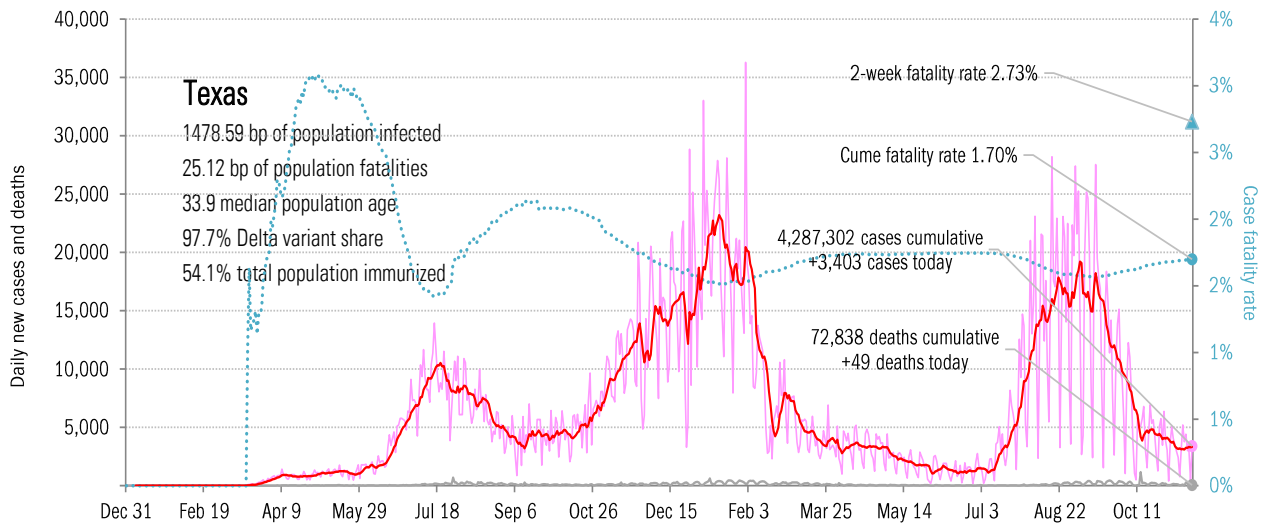
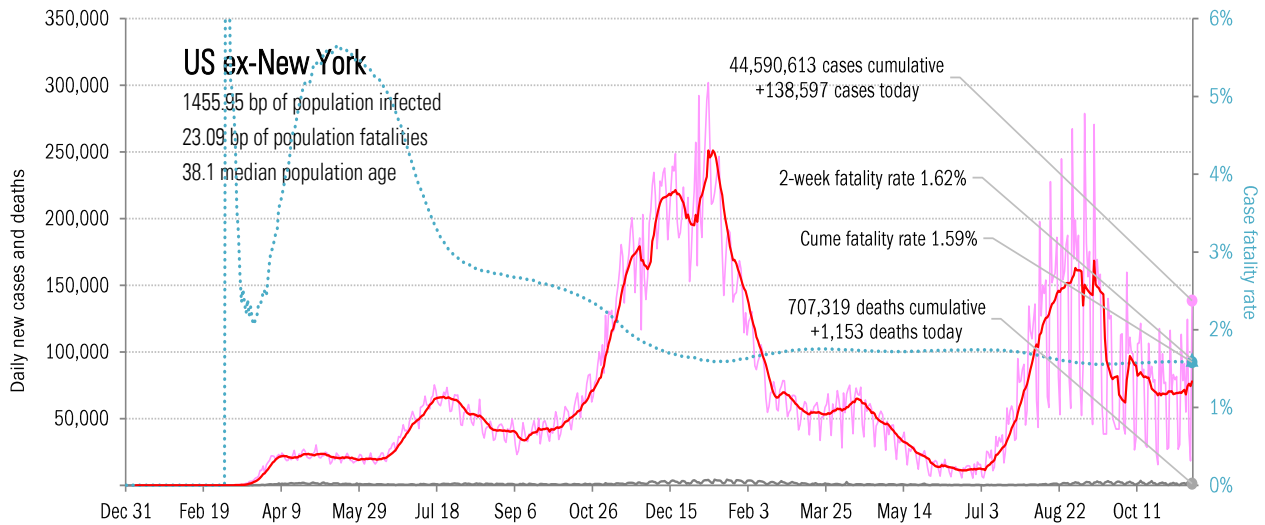
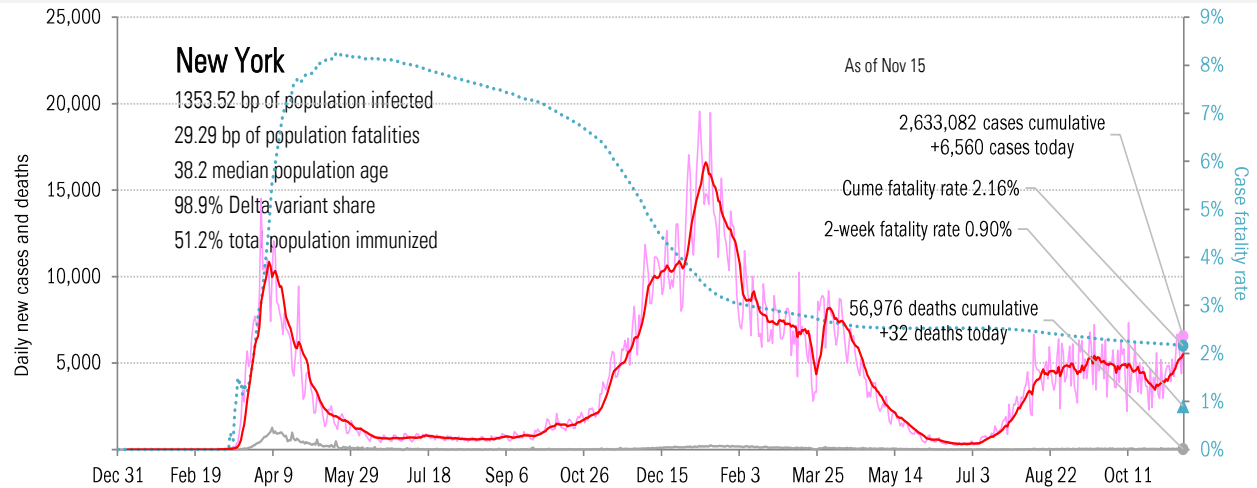
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

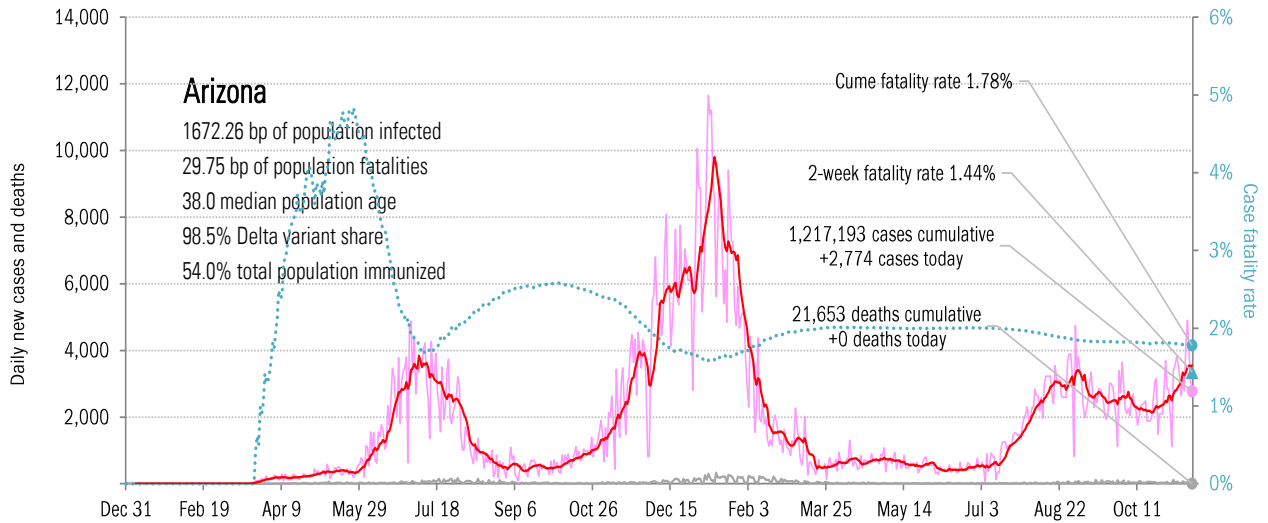
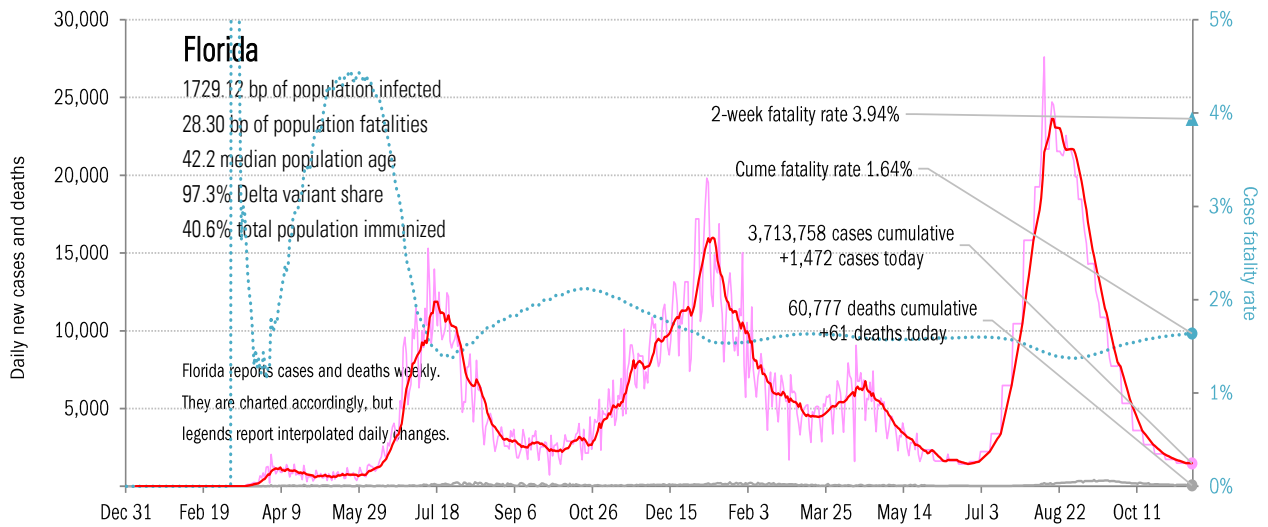
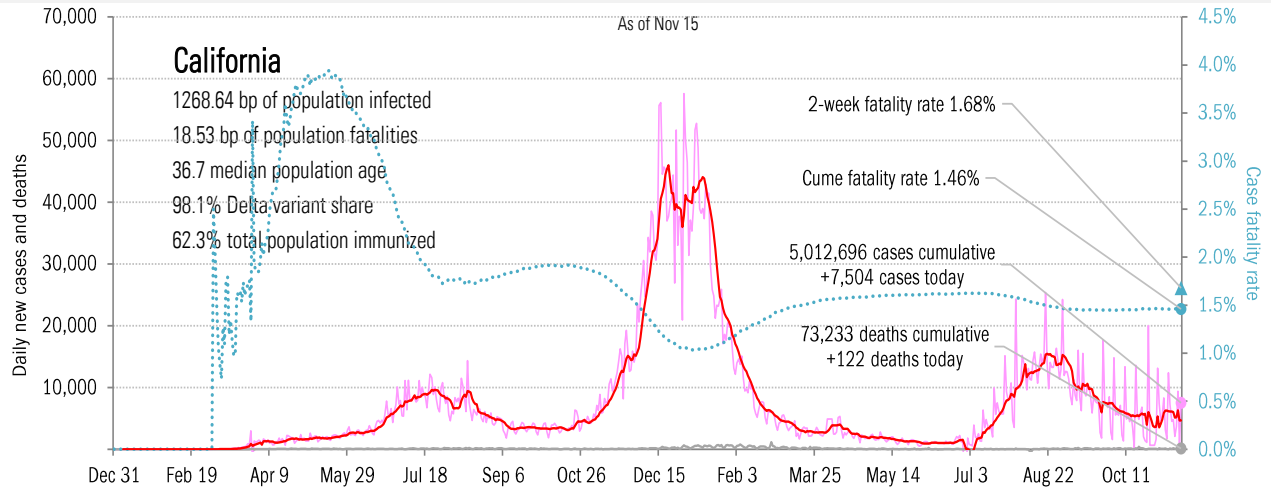
Cases: 7-day average and daily Deaths: Daily



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

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

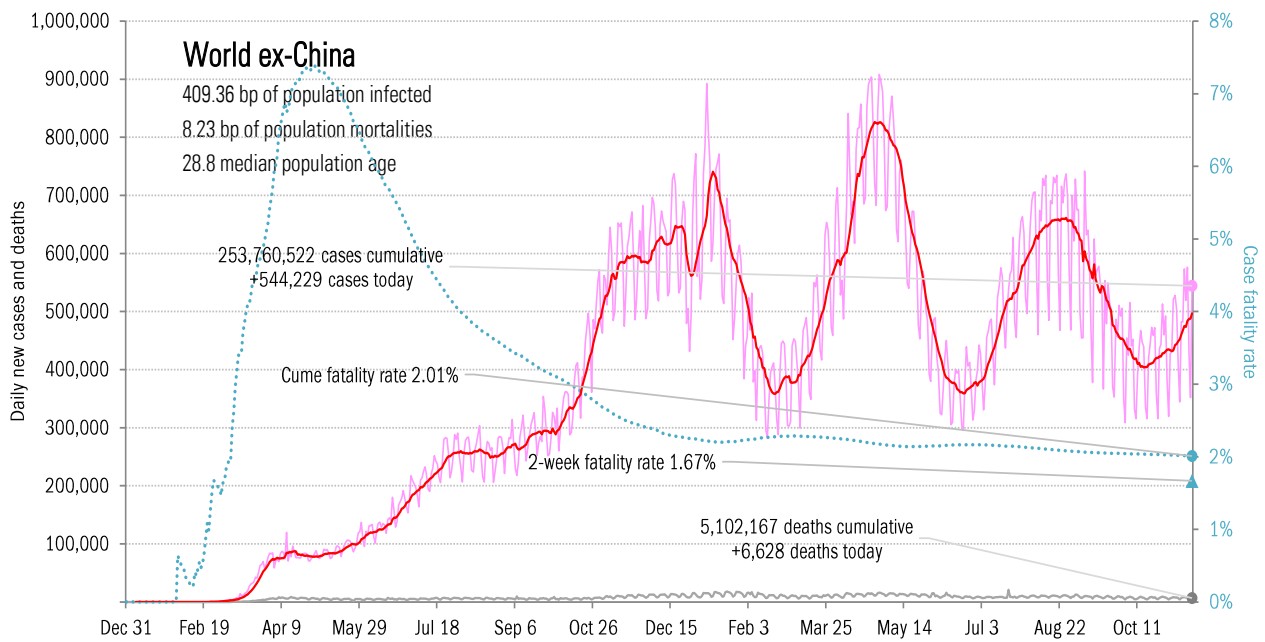
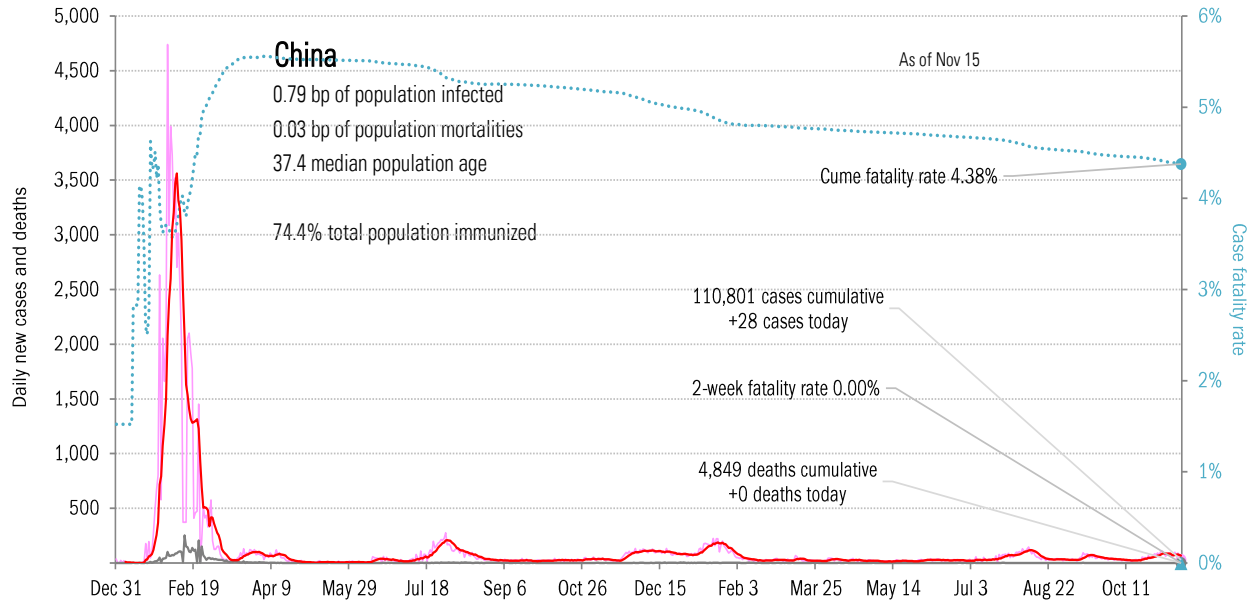
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

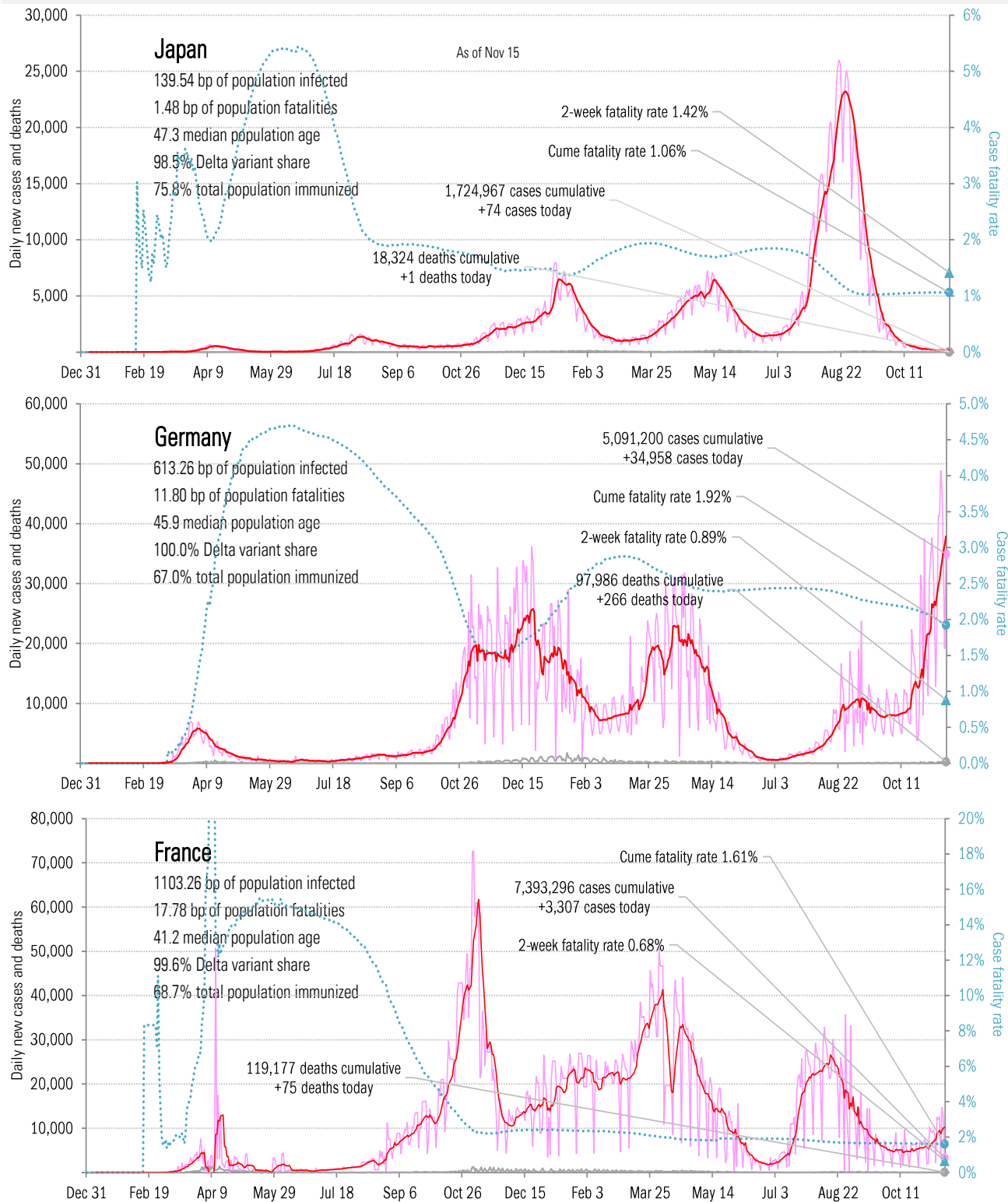
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

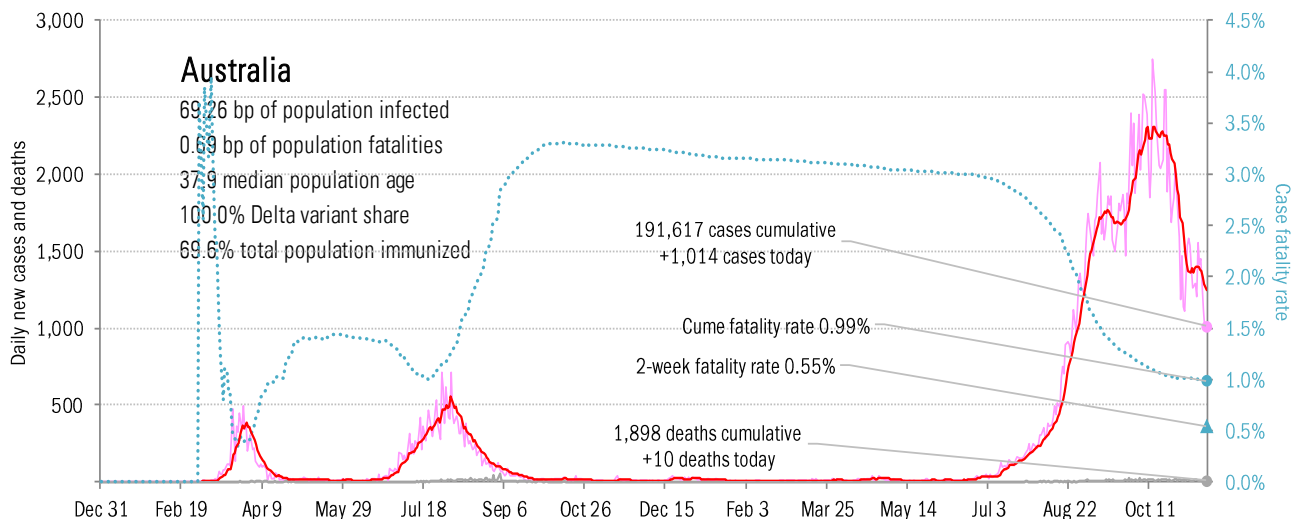
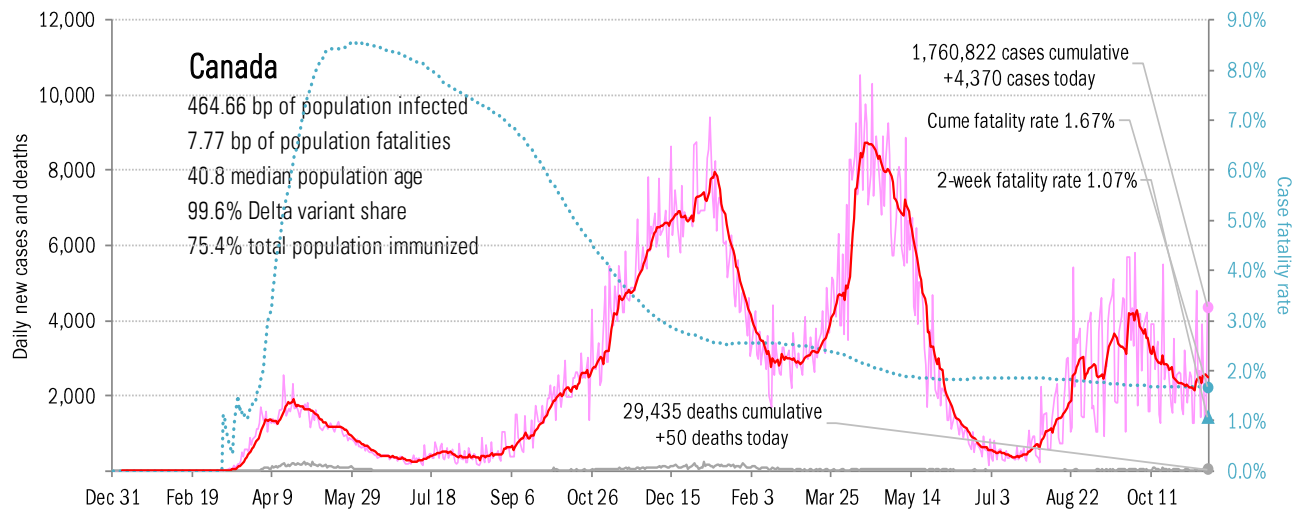
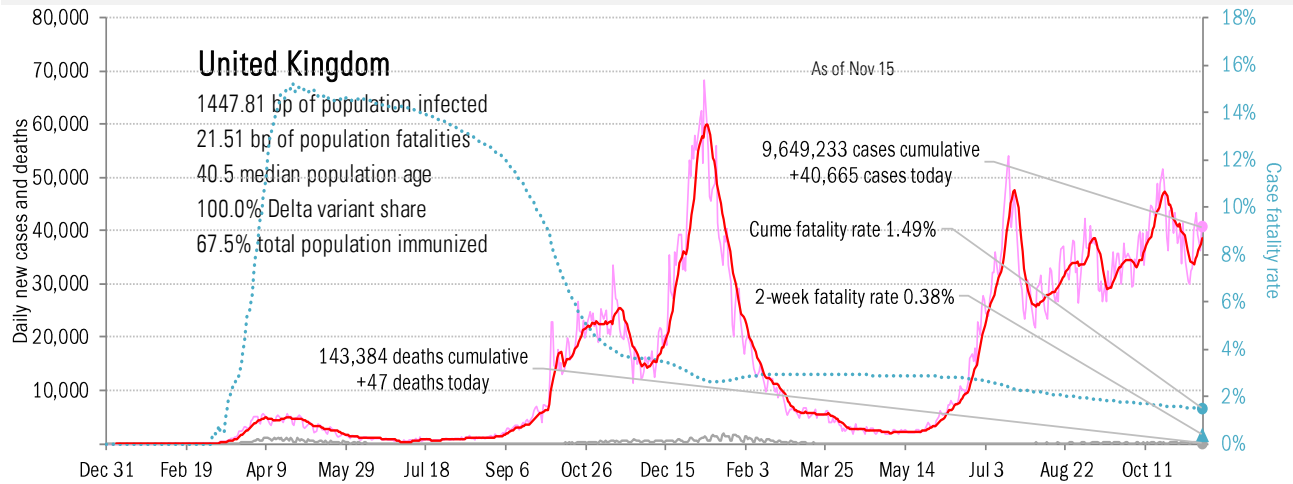
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

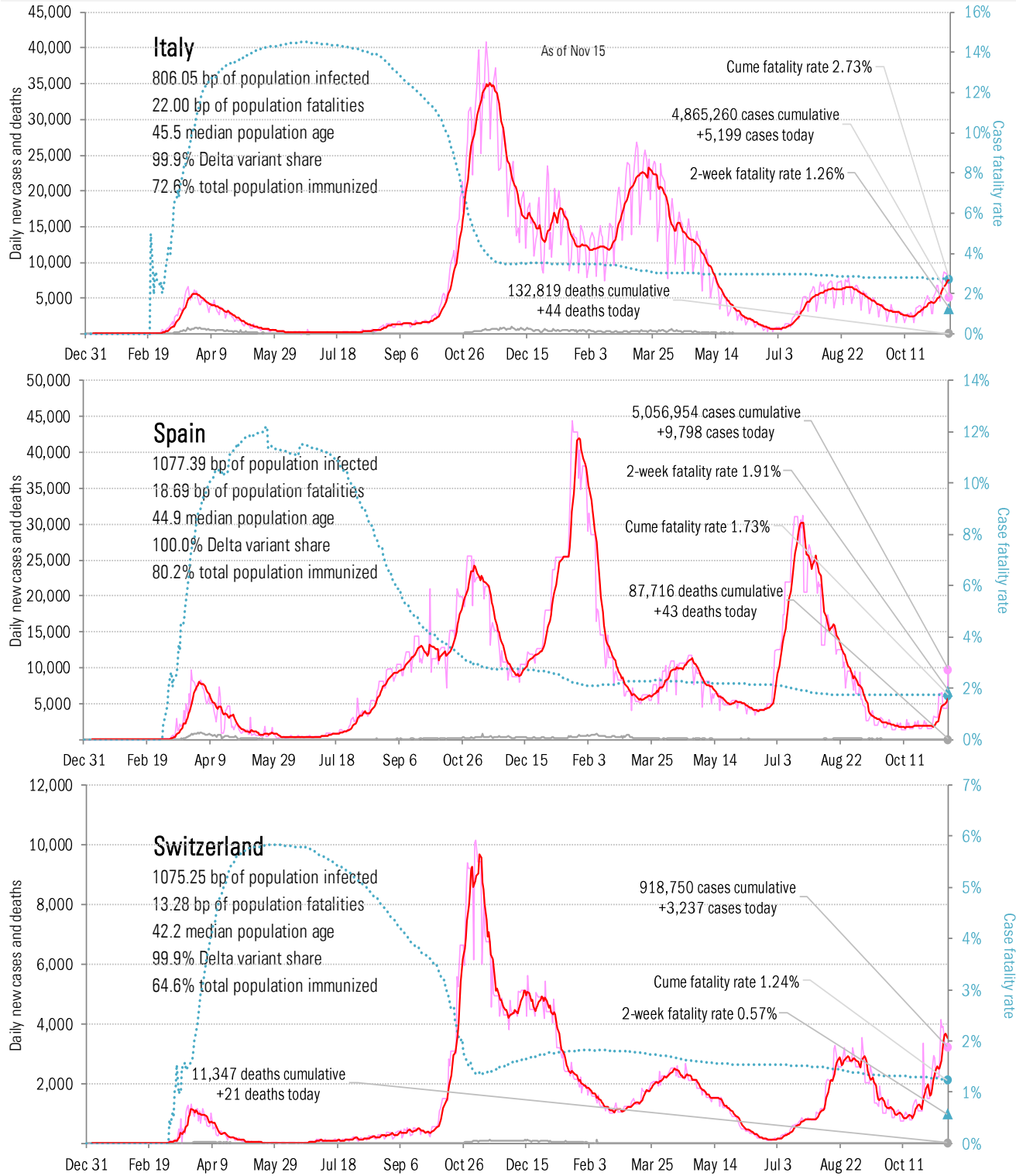


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

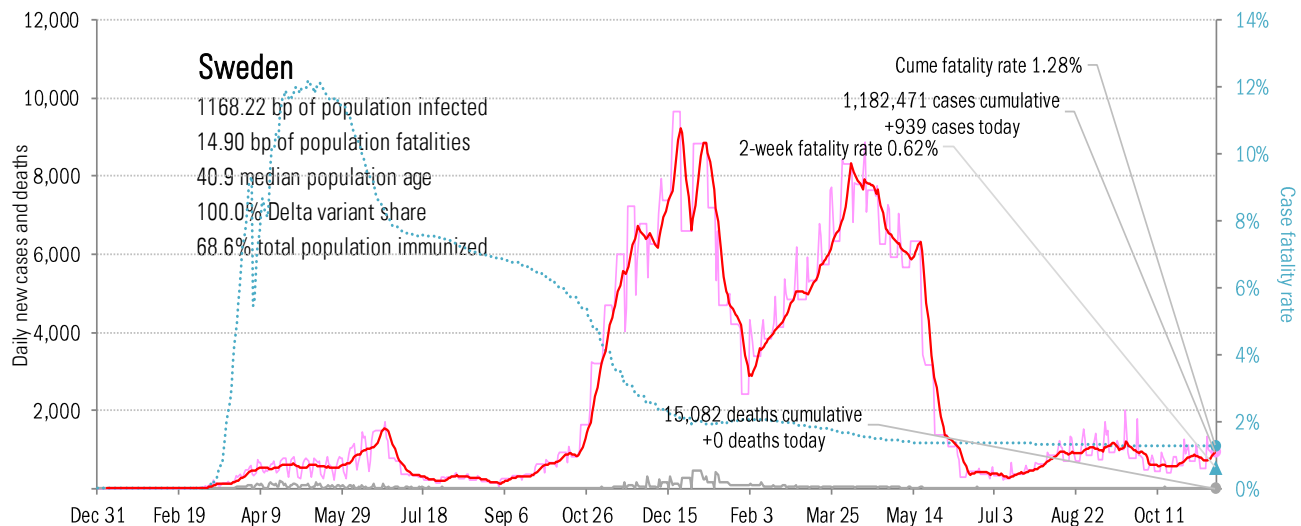
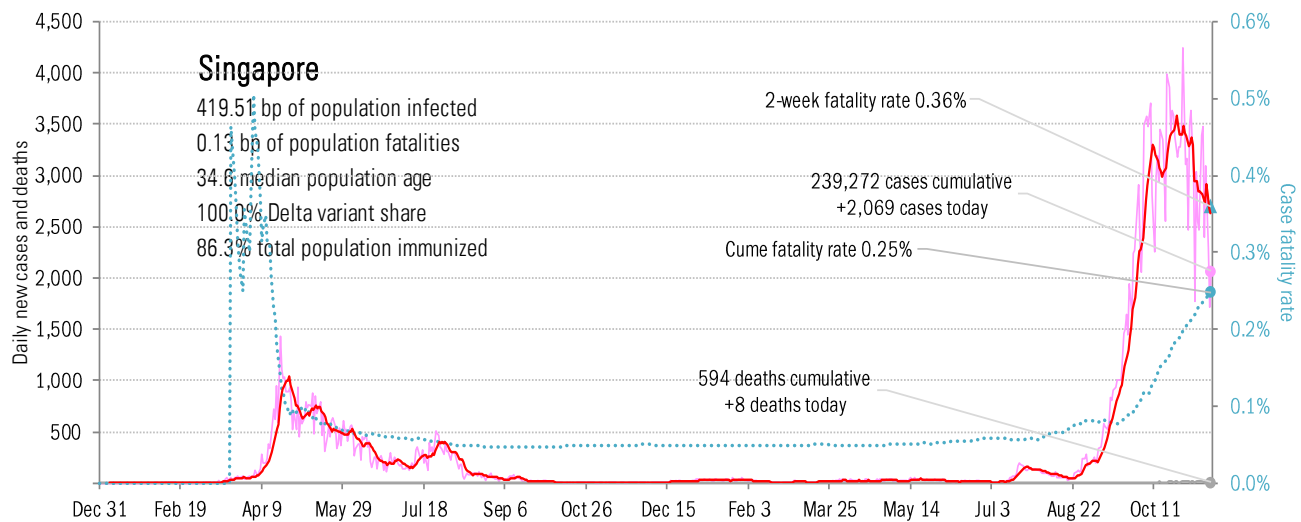
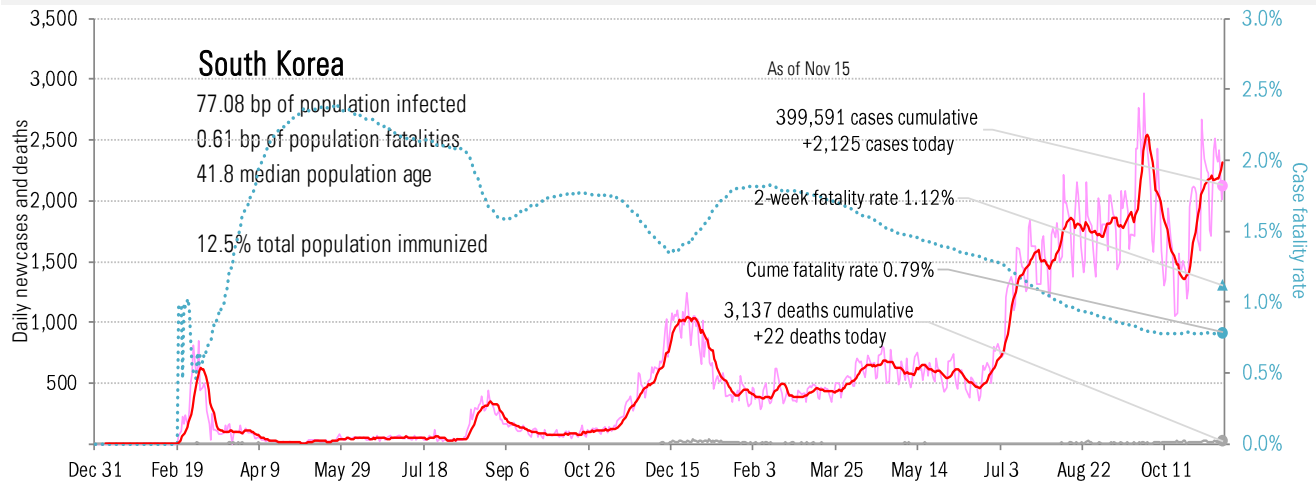
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

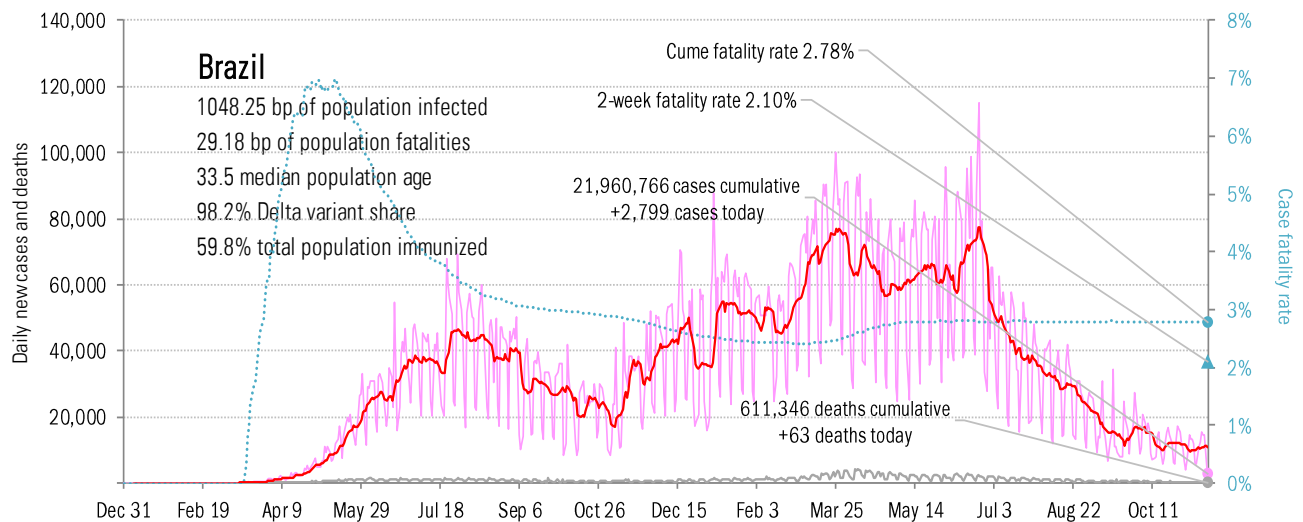
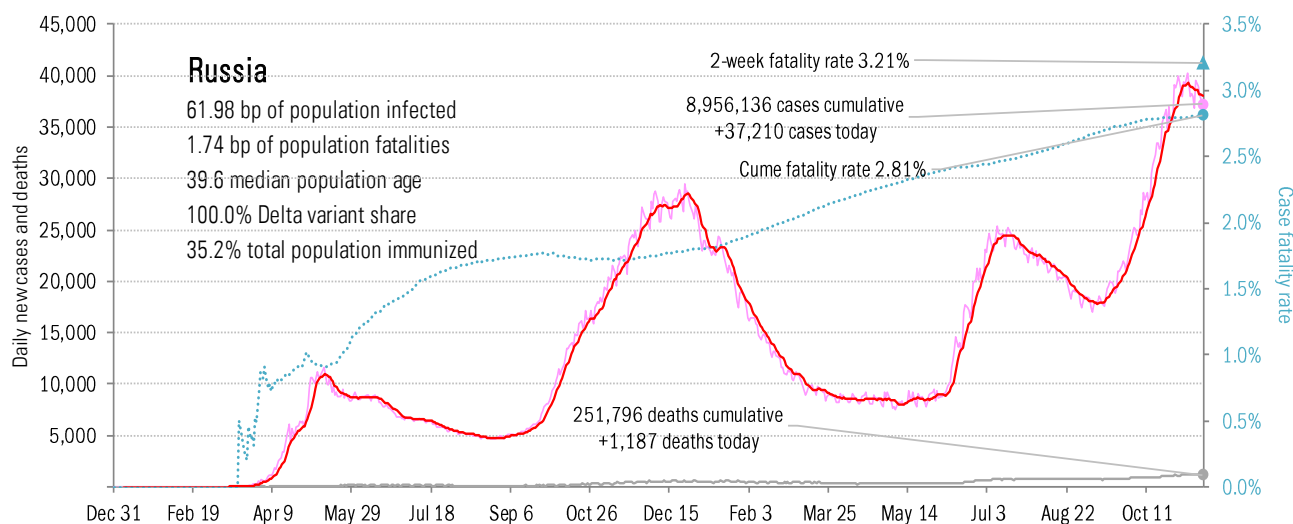
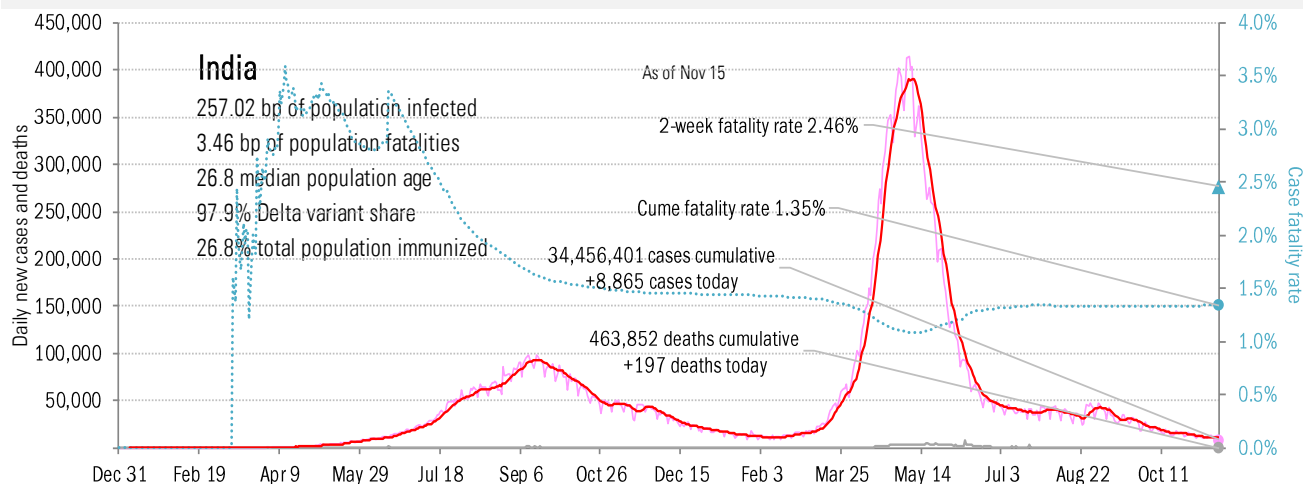
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

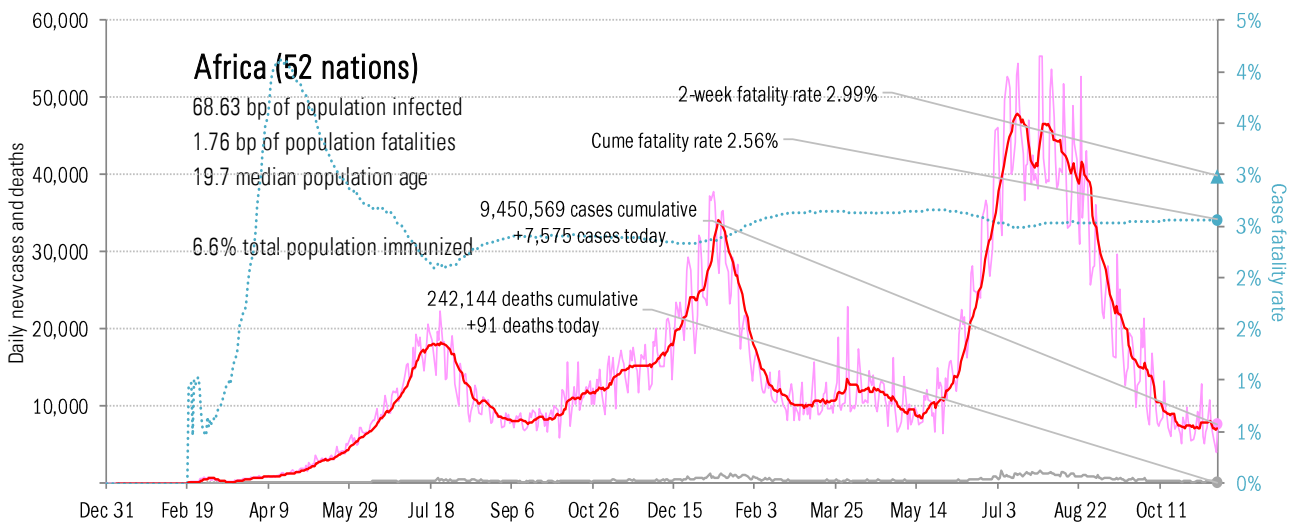
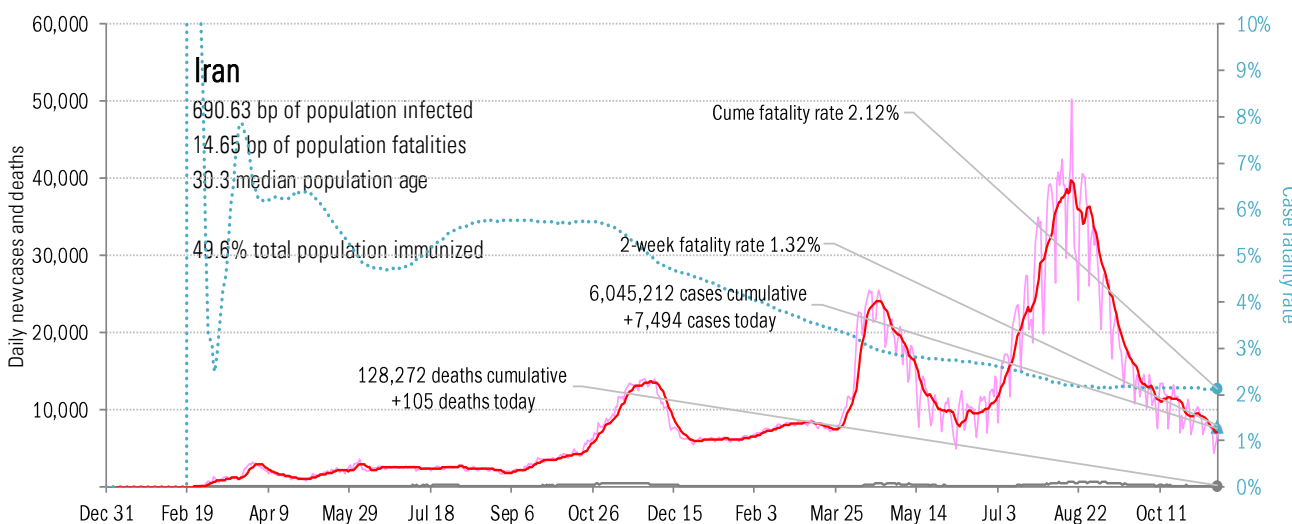
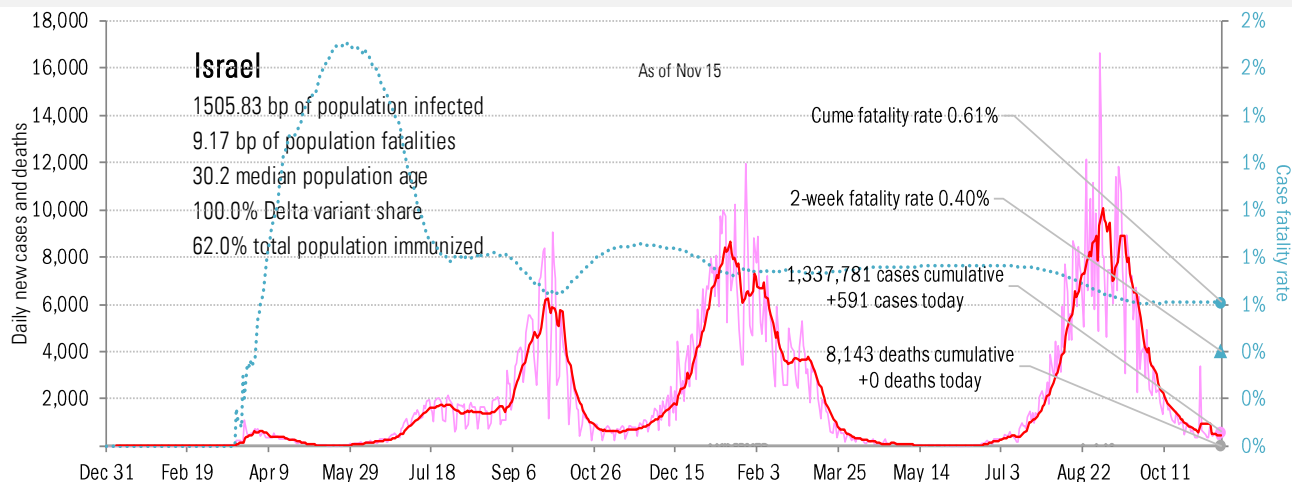
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

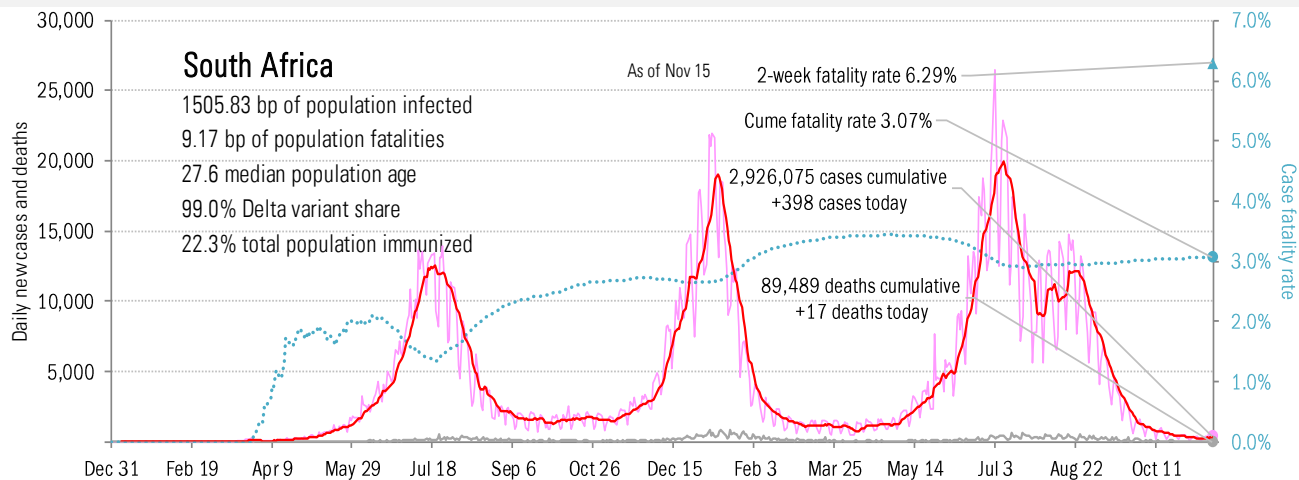
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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