

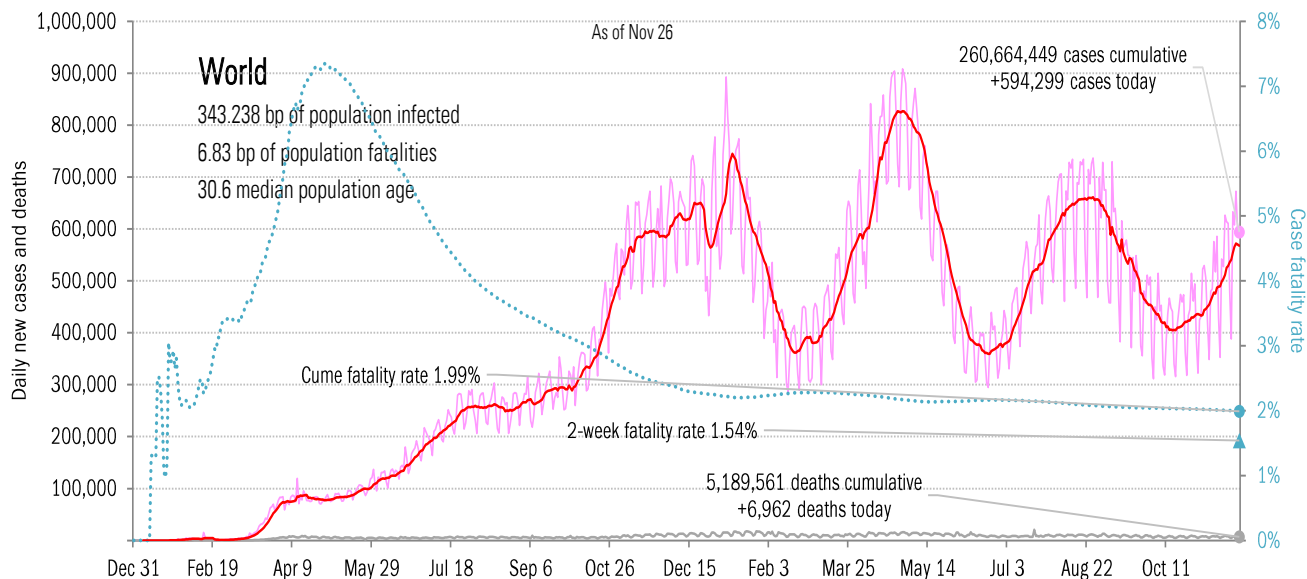
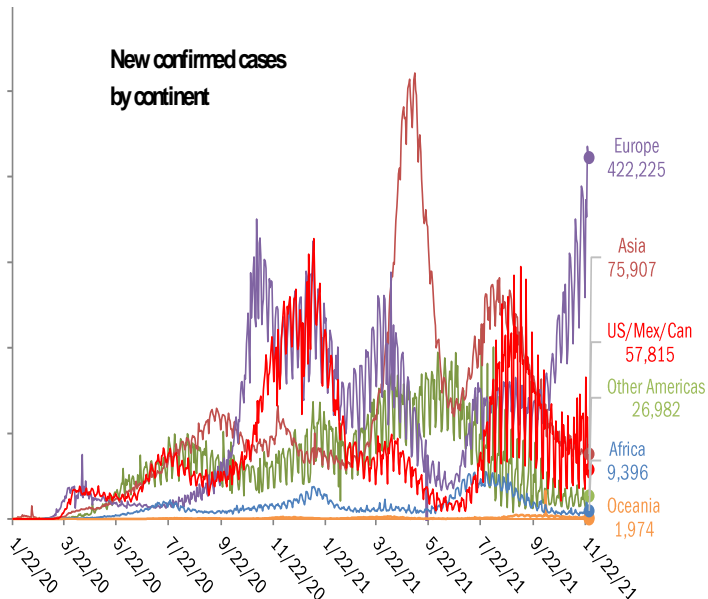
## Data Insights: Covid-2019 Monitor

Saturday, November 27, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
Germany	+65,584	Russia	+1,200
United States	+51,333	Ukraine	+643
United Kingdom	+49,829	United States	+561
France	+34,472	India	+465
Russia	+33,824	Poland	+421
Czechia	+27,793	Brazil	+315
Poland	+26,794	Germany	+303
Turkey	+24,002	Turkey	+201
Belgium	+21,772	Mexico	+165
Netherlands	+21,349	Hungary	+162
<b>+356,752</b>		<b>+4,436</b>	
World	+594,299	World	+6,962
Top ten	60%	Top ten	64%



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

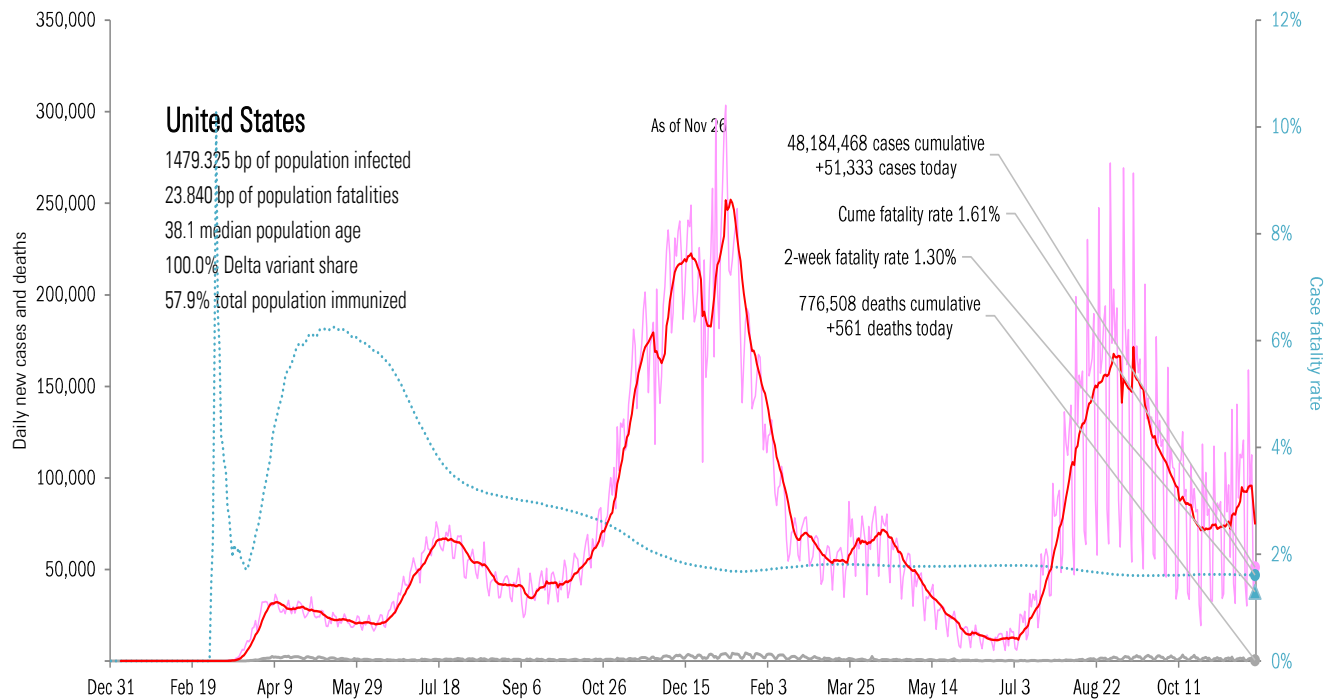
## The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use			ICU use		
CH	+9,143		CH	+293		IL	+105		CA	5,060,048		CA	74,129		TX	382,890		H	93%		NM	92%	
NY	+7,816		MN	+56		TX	+83		TX	4,321,097		TX	73,605		FL	322,990		RI	89%		RI	88%	
PA	+6,122		SC	+36		MN	+69		FL	3,728,064		FL	61,306		CA	319,341		MA	83%		MI	85%	
MA	+5,298		CA	+31		GA	+68		NY	2,707,049		NY	57,343		NY	171,075		PA	82%		AL	85%	
MN	+4,130		MA	+22		AZ	+54		IL	1,784,900		PA	33,247		GA	162,750		MI	82%		MN	85%	
AZ	+3,322		NY	+21		PA	+52		PA	1,716,600		GA	30,358		CH	133,263		MN	82%		DE	84%	
UT	+2,415		CO	+19		NC	+39		CH	1,669,274		IL	28,746		PA	125,237		WA	81%		NE	84%	
CA	+2,289		MT	+19		IN	+35		GA	1,659,491		NJ	28,326		KY	114,008		MD	80%		KY	84%	
NJ	+2,144		VA	+19		KY	+32		NC	1,524,078		CH	26,483		IL	109,742		NY	80%		AK	84%	
CT	+1,900		UT	+17		WI	+32		MI	1,447,230		MI	25,244		MI	101,584		CT	79%		TX	83%	
<b>+44,579</b>			<b>+533</b>			<b>+569</b>			<b>25,617,831</b>			<b>438,787</b>			<b>1,942,880</b>								
All states	+51,333			+561			+644		All states	48,184,468			776,508			3,490,203		All states	70%			67%	
Top ten	87%			95%			88%		Top ten	53%			57%			56%		Median	73%			76%	

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
FL	-6,561	PA	-146	NY	-130	AL	+20 bp
WI	-3,556	FL	-140	CH	-84	NC	+20 bp
KS	-2,814	AZ	-71	PA	-68	SD	+20 bp
CO	-1,627	KS	-31	NJ	-46	IL	+20 bp
NJ	-707	WI	-14	IN	-34	MS	+10 bp



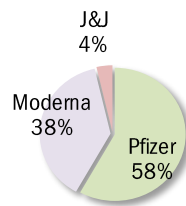
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	466,911,006	+1.234 million	US	57.9%	68.8%
Boosters	75,522,147	million	UK	67.8%	74.5%
	<b>One dose</b>	<b>% Pop</b>	France	69.2%	76.6%
Total population	237,181,739	71%	Spain	80.4%	81.9%
Age 12 to 17	14,578,933	61%	Germany	67.6%	70.2%
Age 18 to 64	161,412,632	79%	Italy	72.8%	77.9%
Age 65 and over	56,597,161	100%	Australia	71.9%	77.1%
			Israel	62.1%	67.6%
			Canada	76.0%	79.3%
			Japan	76.8%	79.0%
			Africa	7.1%	10.6%
			India	30.1%	55.6%
			Brazil	60.0%	75.9%
			China	74.5%	84.8%

Because of the Thanksgiving Day holiday, the CDC did not update its vaccine database.

Every American >18 immunized in **168 days** by May 10, 2022  
 72.7% of population >18 immunized  
 14.3% previously tested positive  
**87.0%** vs 60% adult herd immunity



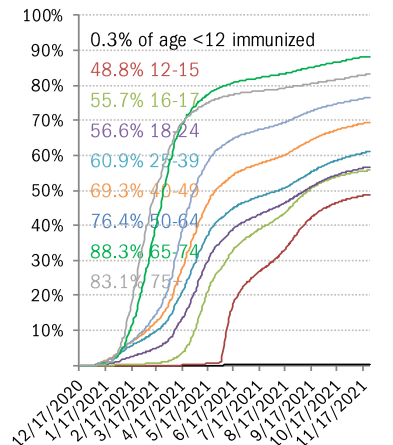
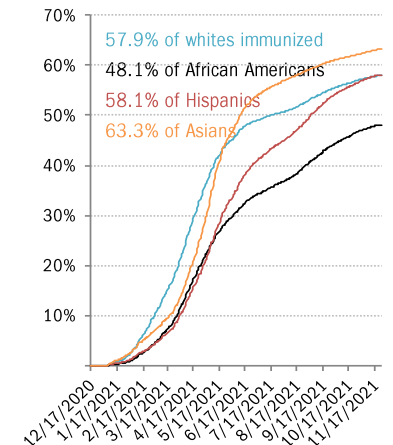
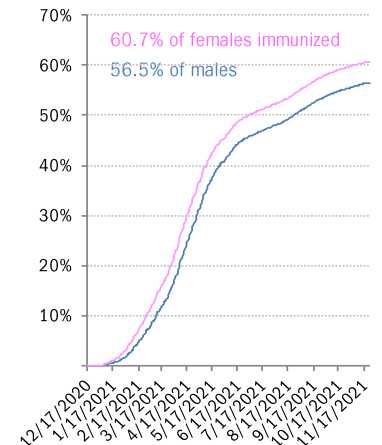
State	Best	Middle	Worst
At least partial immunity as % population			
Full immunity as % population			

<b>AK</b>
62.3%
54.0%

As of Nov 24

<b>WA</b>	<b>ID</b>	<b>MT</b>	<b>ND</b>	<b>MN</b>	<b>IL</b>	<b>MI</b>	<b>NY</b>	<b>VT</b>	<b>NH</b>	
72.3%	50.5%	59.4%	57.6%	68.5%	68.7%	60.8%	77.5%	84.6%	86.3%	
64.8%	45.1%	51.7%	48.6%	62.2%	61.4%	54.4%	68.2%	72.7%	64.6%	
<b>OR</b>	<b>NV</b>	<b>WY</b>	<b>SD</b>	<b>IA</b>	<b>IN</b>	<b>OH</b>	<b>PA</b>	<b>NJ</b>	<b>MA</b>	
71.0%	65.9%	53.2%	66.3%	62.2%	55.5%	58.0%	80.8%	78.4%	85.0%	
63.8%	54.2%	45.3%	54.3%	56.5%	50.5%	52.8%	58.0%	67.5%	70.8%	
<b>CA</b>	<b>UT</b>	<b>CO</b>	<b>NE</b>	<b>MO</b>	<b>KY</b>	<b>WV</b>	<b>VA</b>	<b>MD</b>	<b>CT</b>	<b>RI</b>
78.2%	63.7%	70.9%	63.7%	59.4%	59.9%	53.8%	74.9%	76.4%	83.3%	82.4%
62.8%	55.2%	62.9%	57.2%	50.8%	51.9%	41.5%	64.6%	67.2%	71.7%	72.2%
<b>AZ</b>	<b>NM</b>	<b>KS</b>	<b>AR</b>	<b>TN</b>	<b>NC</b>	<b>SC</b>	<b>DC</b>	<b>DE</b>		
63.8%	76.0%	65.7%	60.0%	56.5%	69.4%	59.8%	80.6%	71.4%		
54.4%	63.3%	54.4%	49.1%	49.4%	54.0%	51.2%	64.1%	60.9%		
<b>OK</b>	<b>LA</b>	<b>MS</b>	<b>AL</b>	<b>GA</b>						
62.3%	55.3%	53.7%	56.2%	58.6%						
51.3%	48.7%	46.9%	46.0%	49.4%						
<b>TX</b>										
63.7%										
54.5%										
	<b>FL</b>	<b>PR</b>								
	71.3%	84.2%								
	61.0%	73.9%								

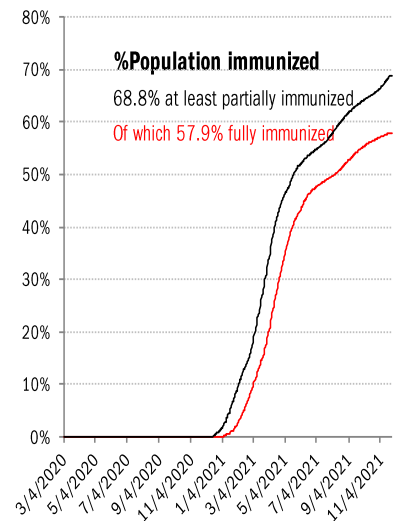
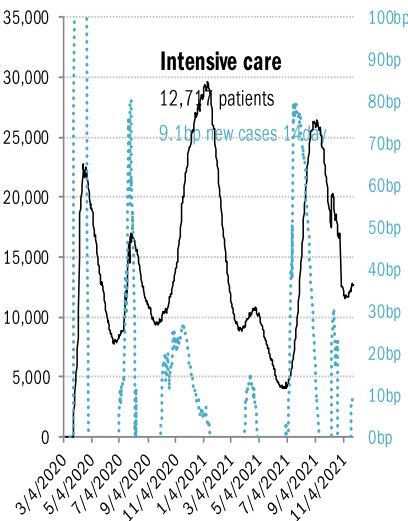
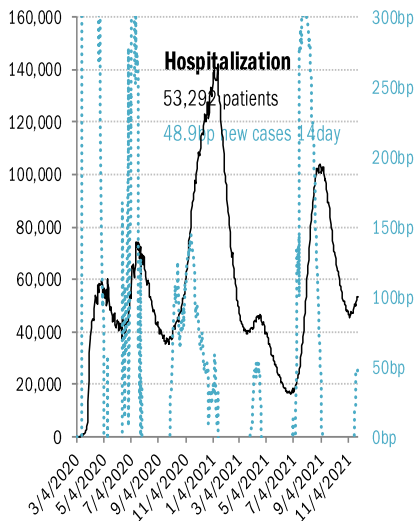
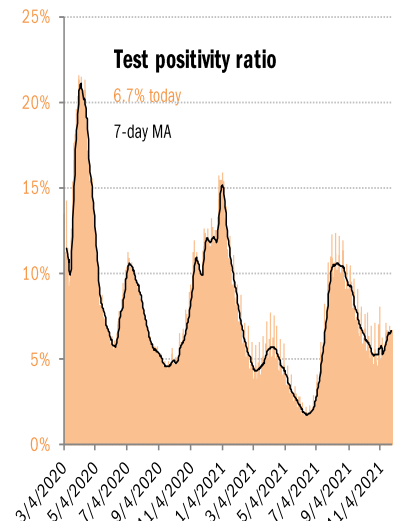
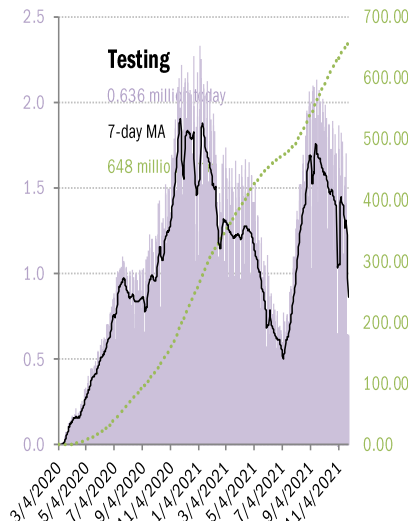
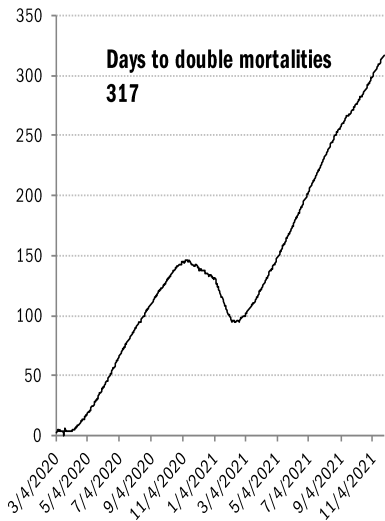
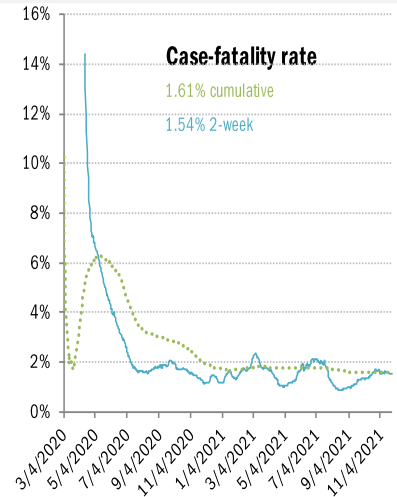
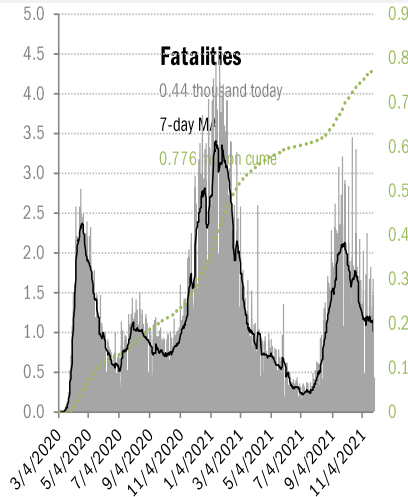
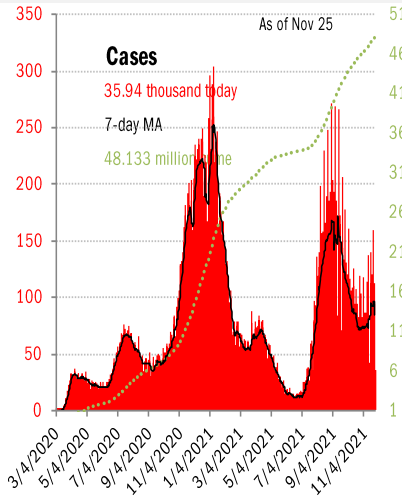
## The demographics of US vaccination



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

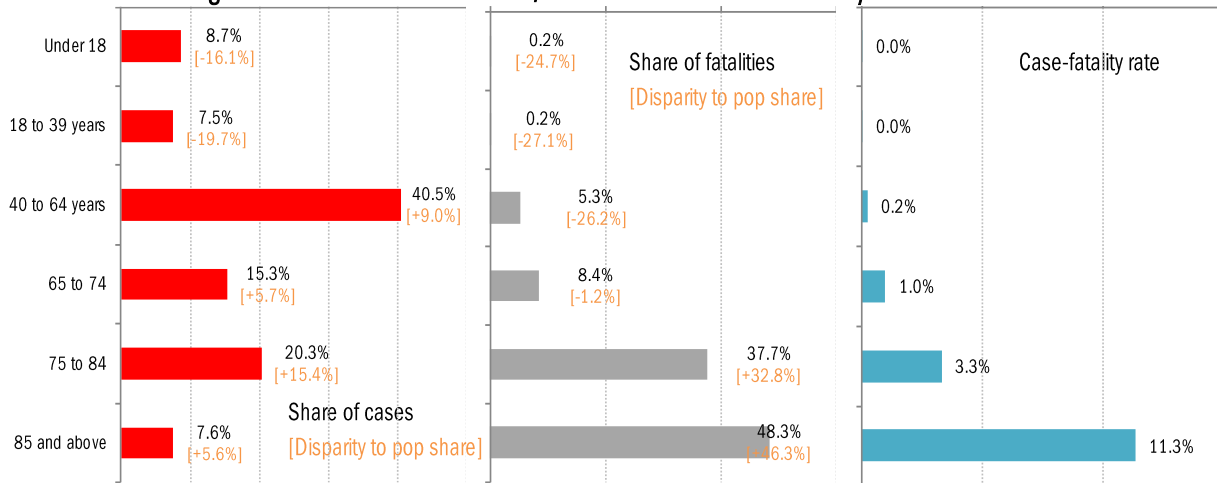
# US deep-dive

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

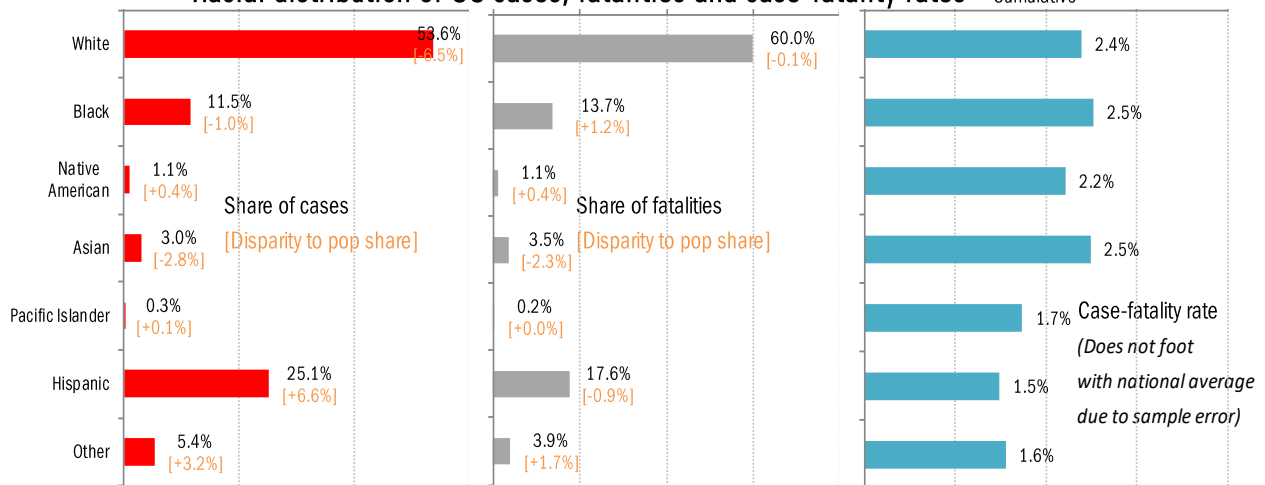


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

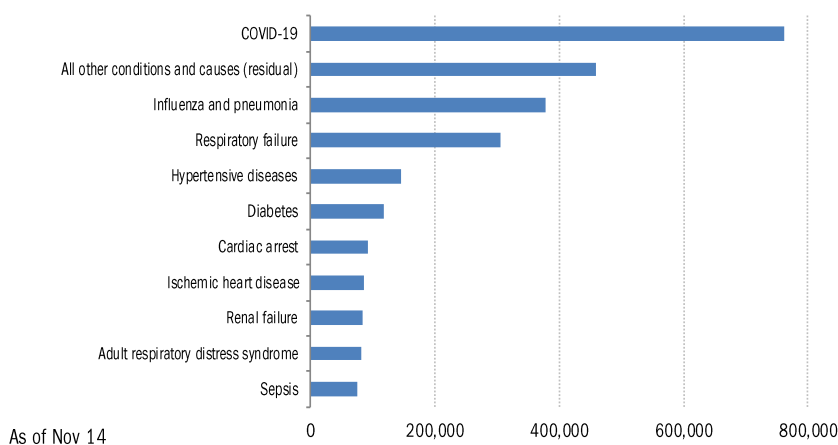


Racial distribution of US cases, fatalities and case-fatality rates



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

[U.K. Finds Two Cases of Omicron Covid Variant, Javid Says](#)

Ros Krasny  
*Bloomberg*  
November 27, 2021

[South African anger over 'rushed' Covid travel restrictions](#)

Joseph Cotterill  
*Financial Times*  
November 26, 2021

[Statement by President Joe Biden on the Omicron COVID-19 Variant](#)

*The White House*  
November 26, 2021

[Classification of Omicron \(B.1.1.529\): SARS-CoV-2 Variant of Concern](#)

*World Health Organization*  
November 26, 2021

[Biden admin announces travel ban for South Africa and 7 other countries, citing new variant](#)

Myah Ward  
*Politico*  
November 26, 2021

[How to Do a Real Crossword Puzzle](#)

Stephen Sondheim  
*New York Magazine*  
April 8, 1968

[Stephen Sondheim, Titan of the American Musical, Is Dead at 91](#)

Bruce Weber  
*New York Times*  
November 26, 2021

[Days Before Dying, Stephen Sondheim Reflected: 'I've Been Lucky'](#)

Michael Paulson  
*New York Times*  
November 26, 2021

[The Essential Musical Dramatist Who Taught Us to Hear](#)

Jesse Green  
*New York Times*  
November 26, 2021

[At 'Company' and 'Assassins,' Praise for Stephen Sondheim](#)

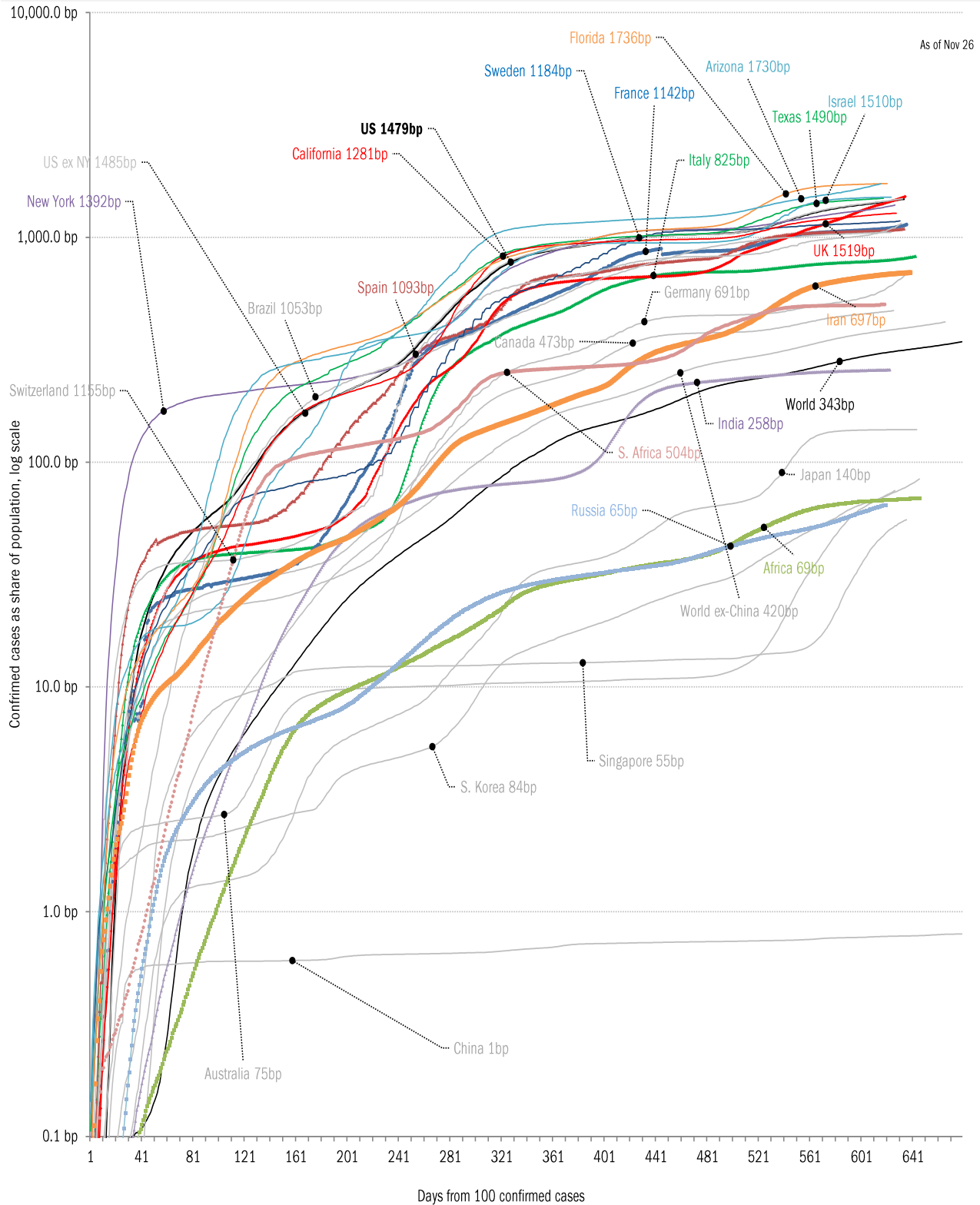
Matt Stevens, Sadiba Hasan and Julia Jacobs  
*New York Times*  
November 27, 2021

## Meme of the day



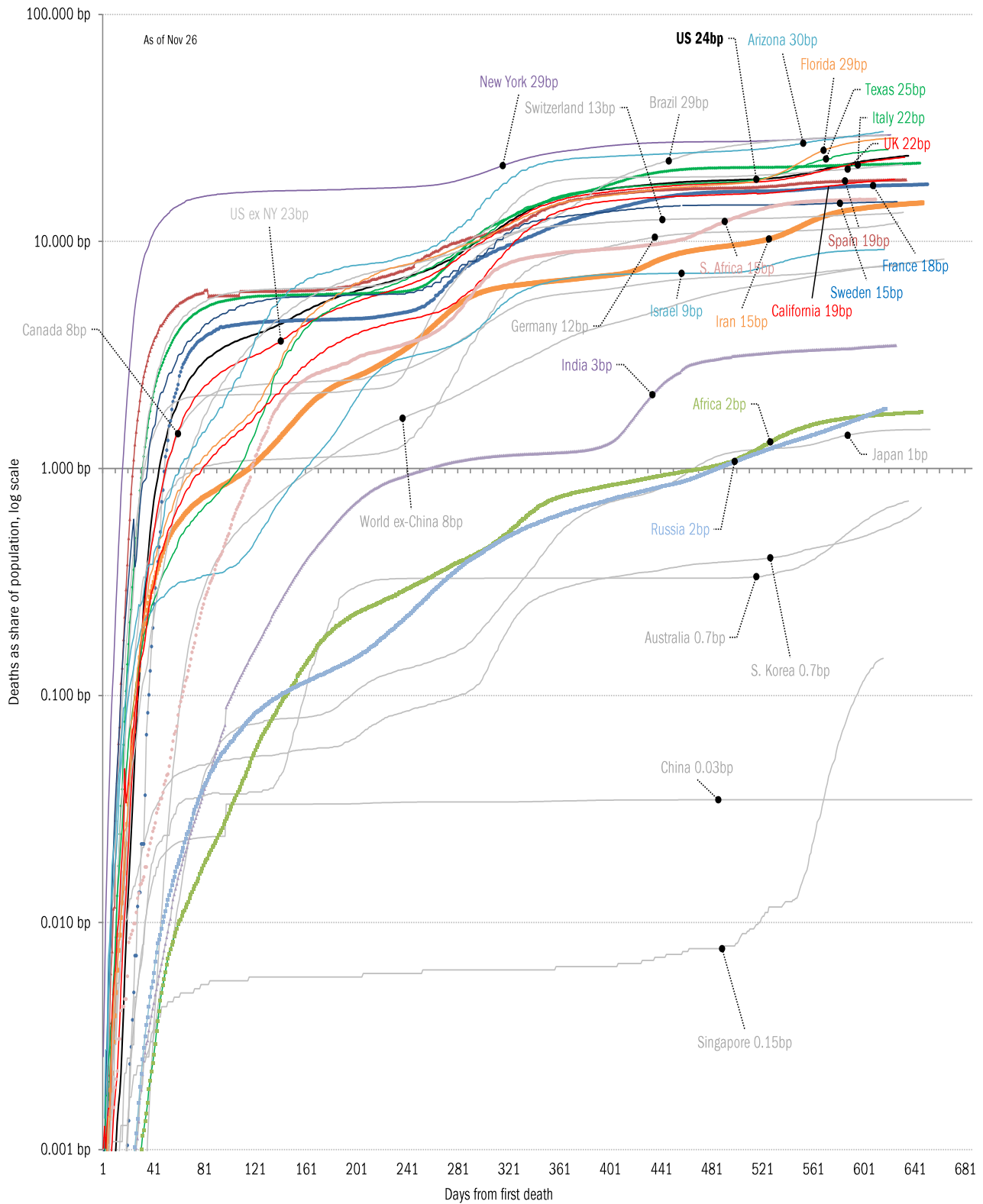
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



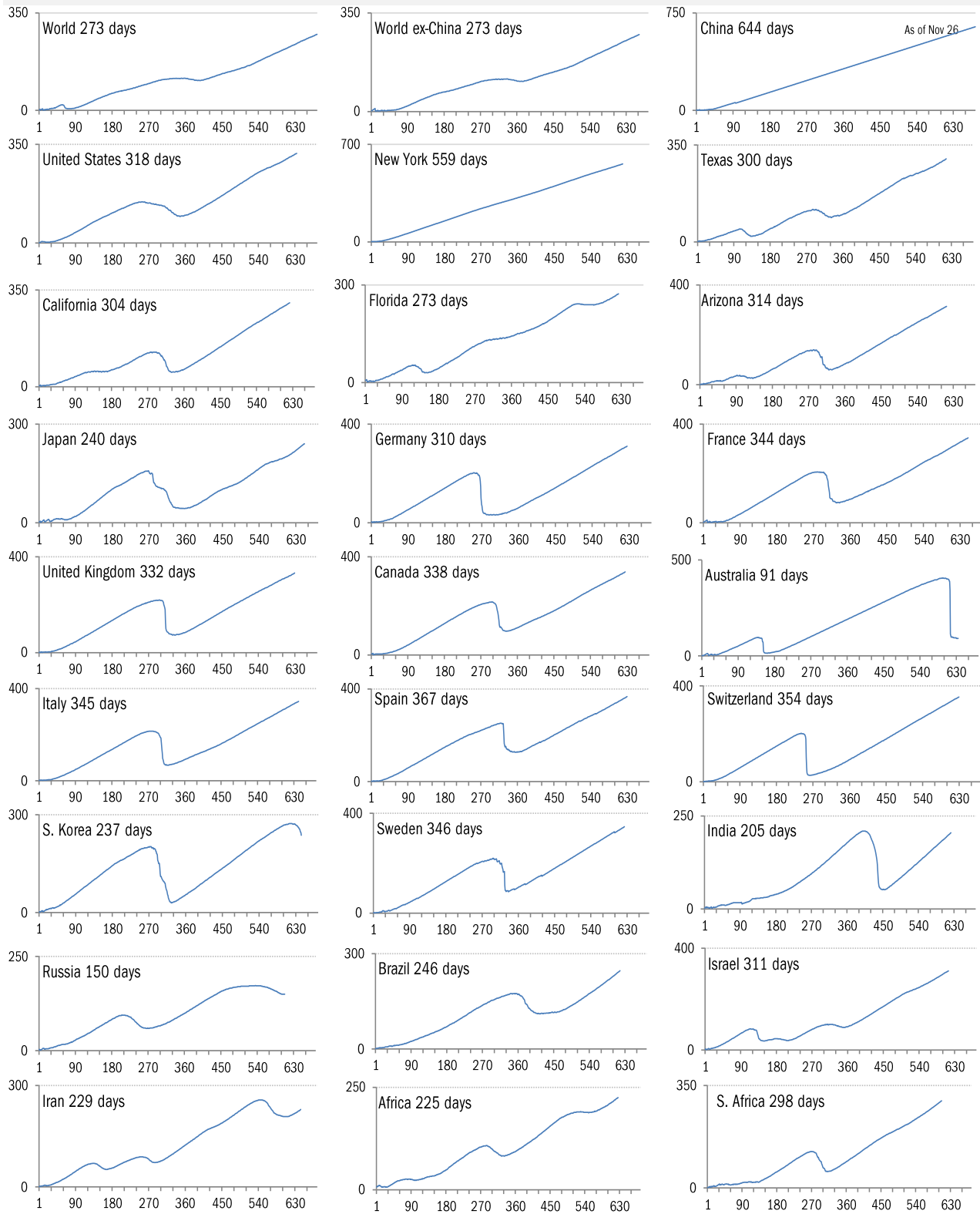
Source: [Johns Hopkins](#), TrendMacro calculations



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

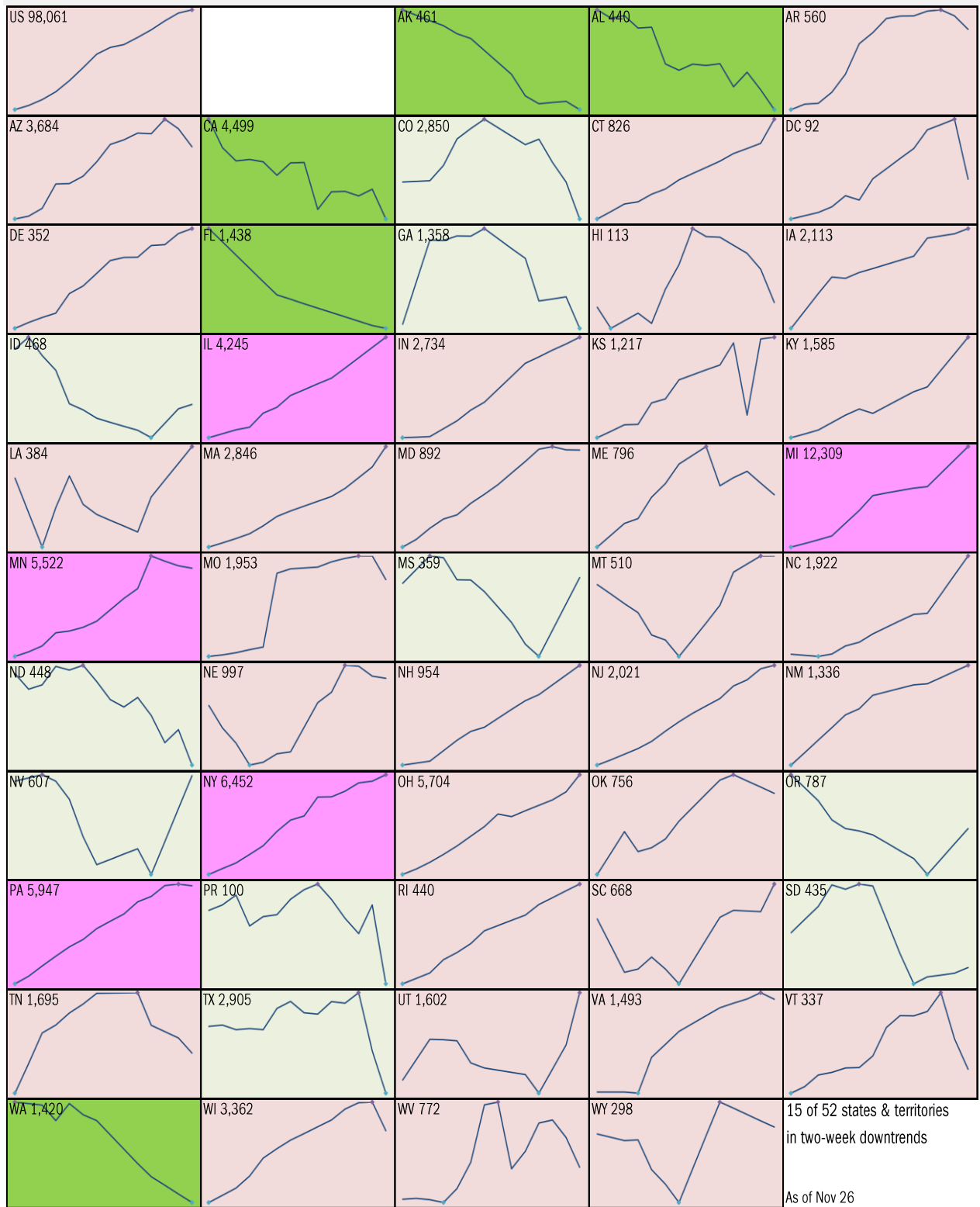
Vertical: days to double deaths Horizontal: days from first death

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

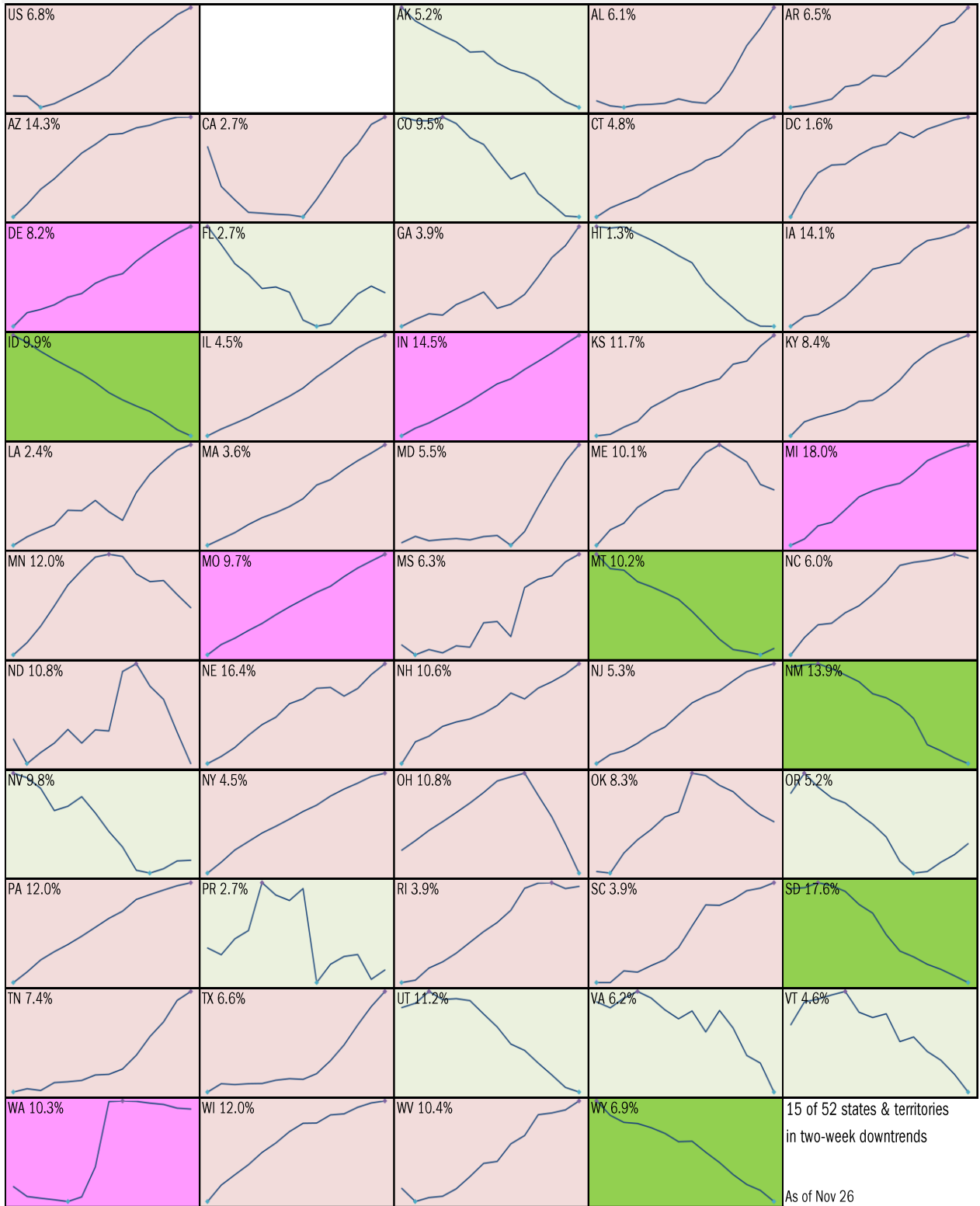


Source: [Johns Hopkins](#), TrendMacro calculations

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

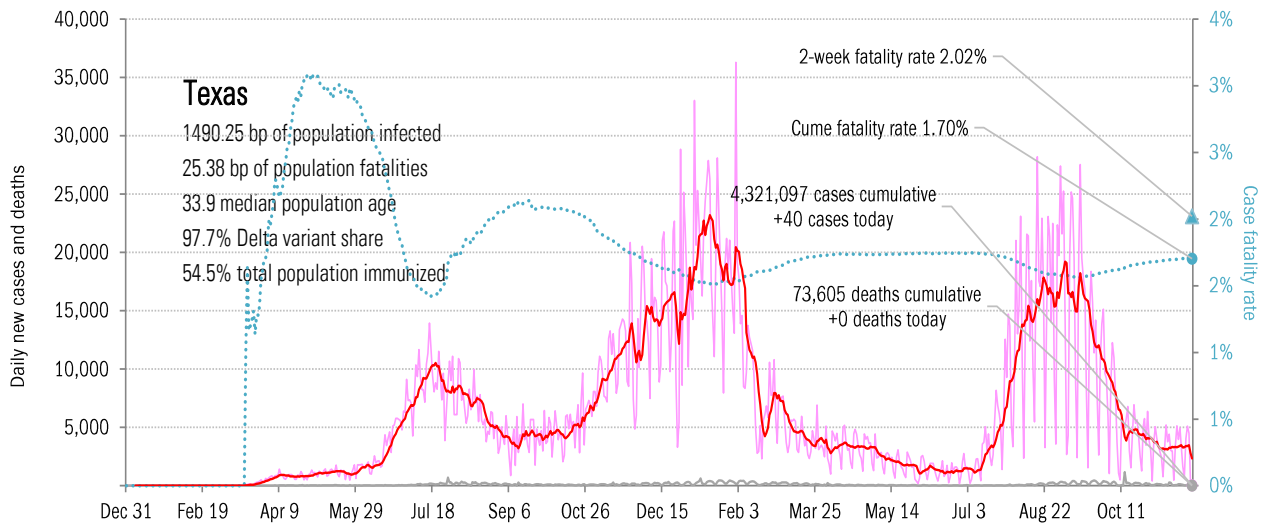
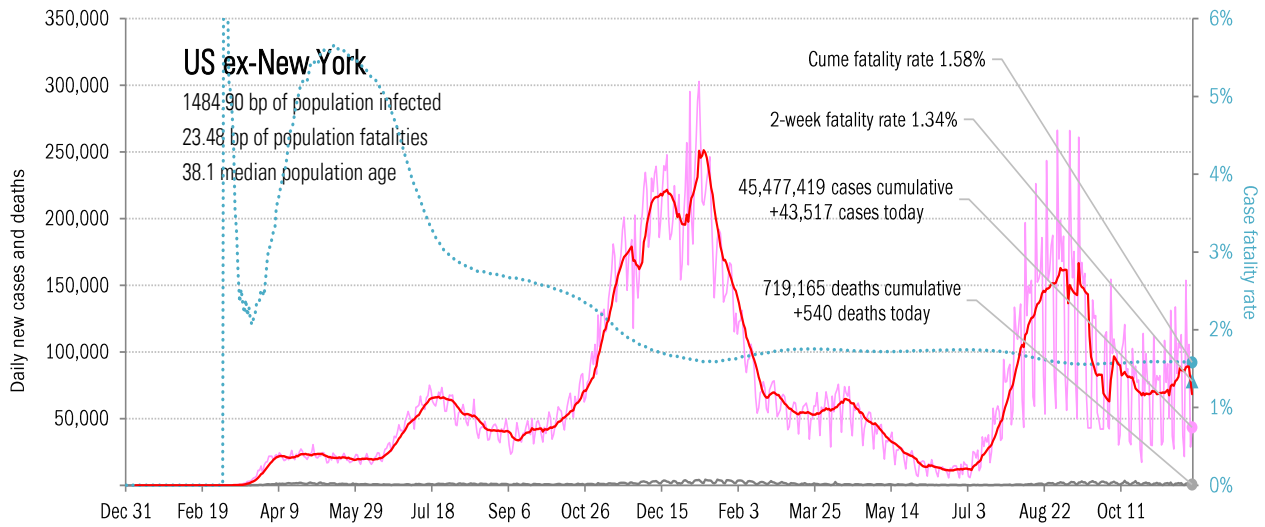
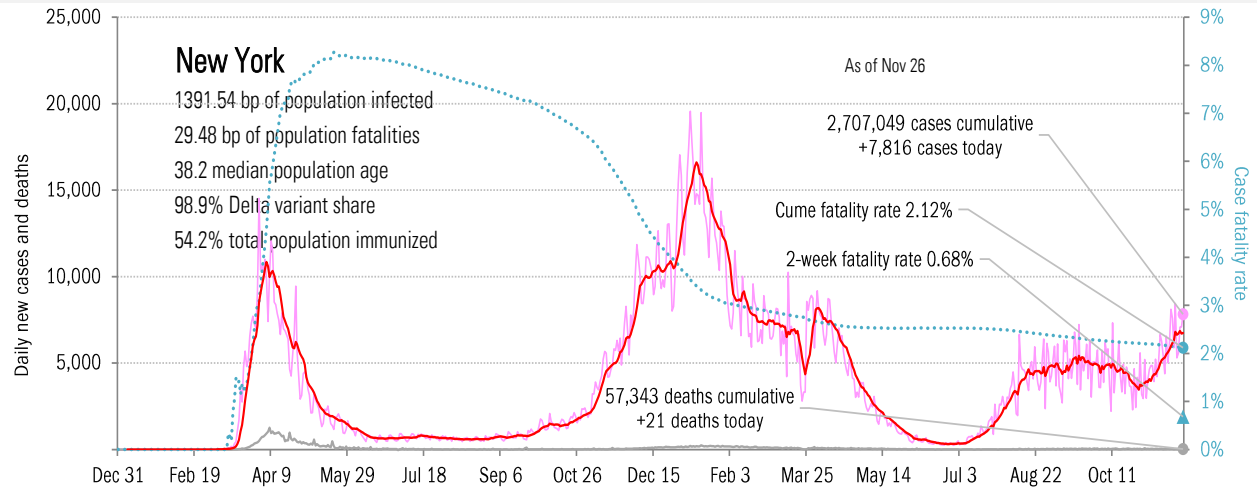
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

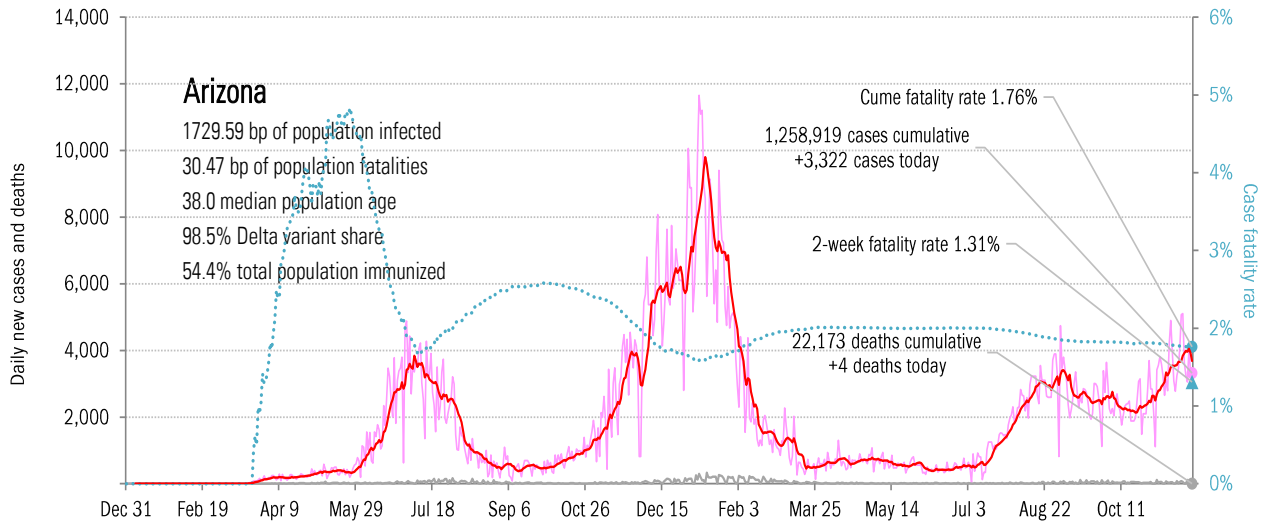
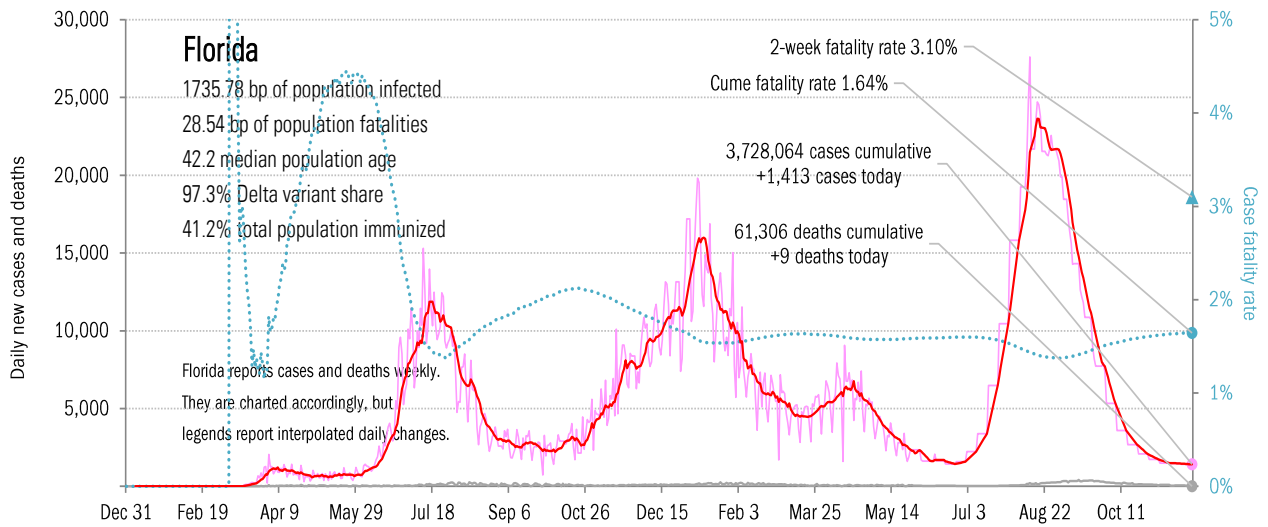
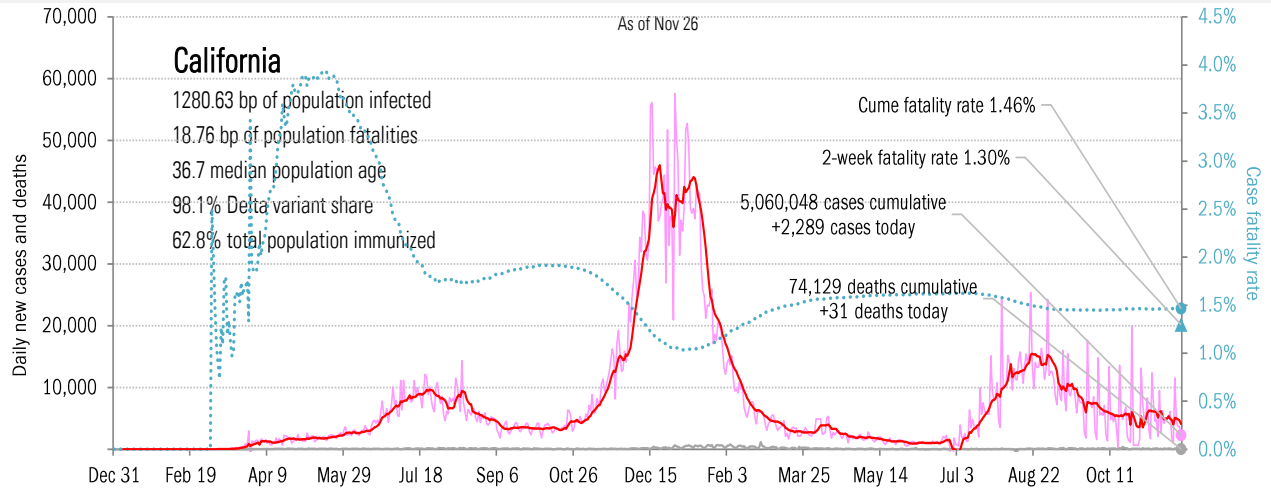
Cases: 7-day average and daily Deaths: Daily



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

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

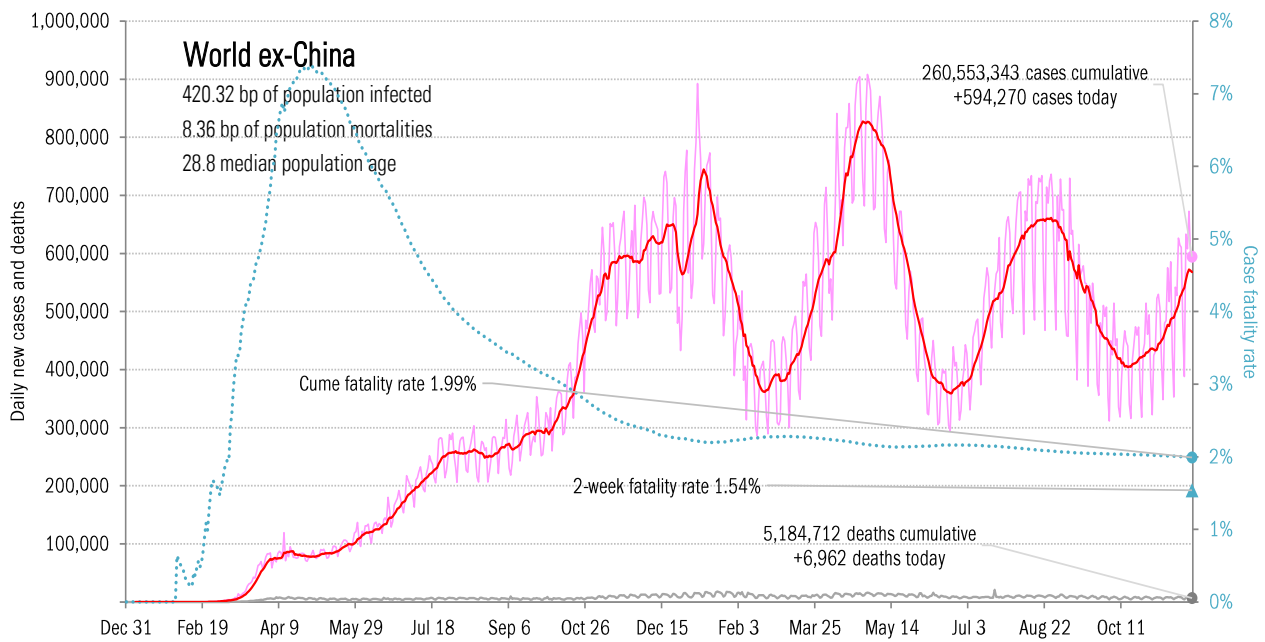
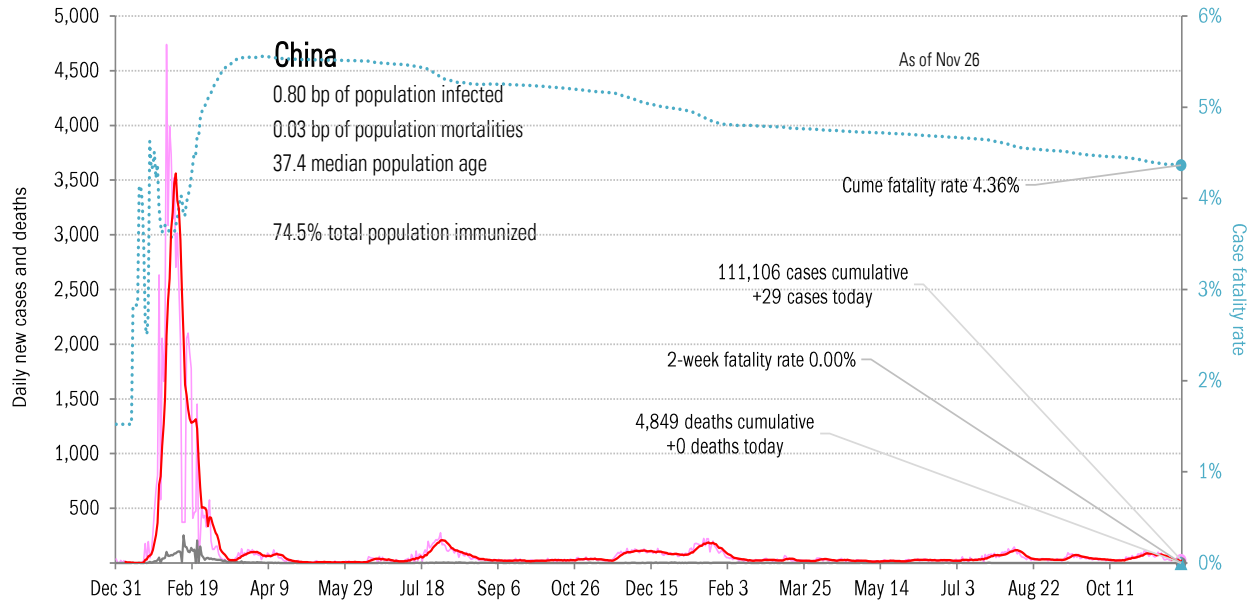
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

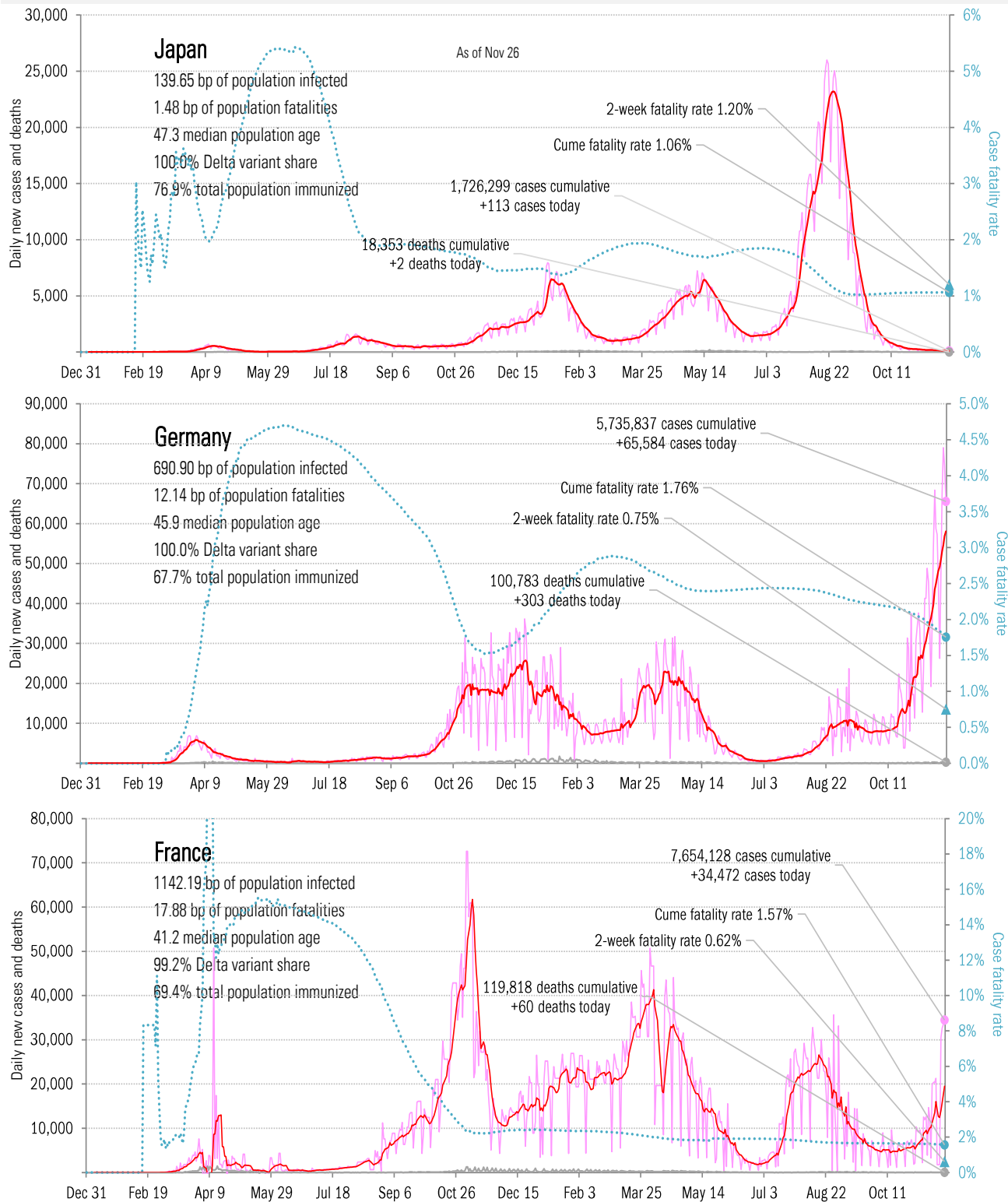
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

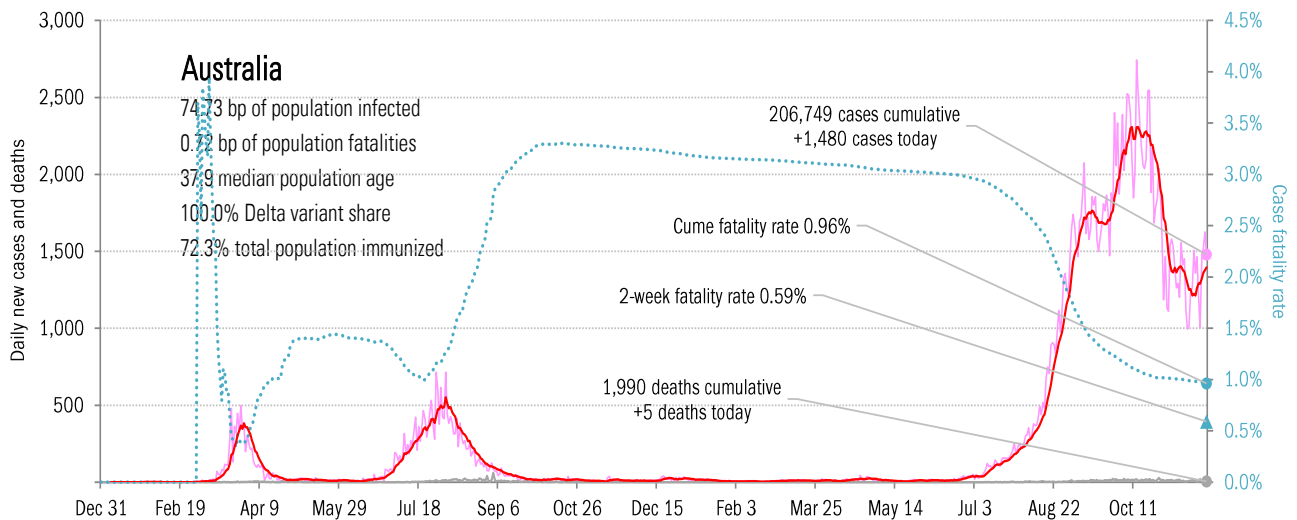
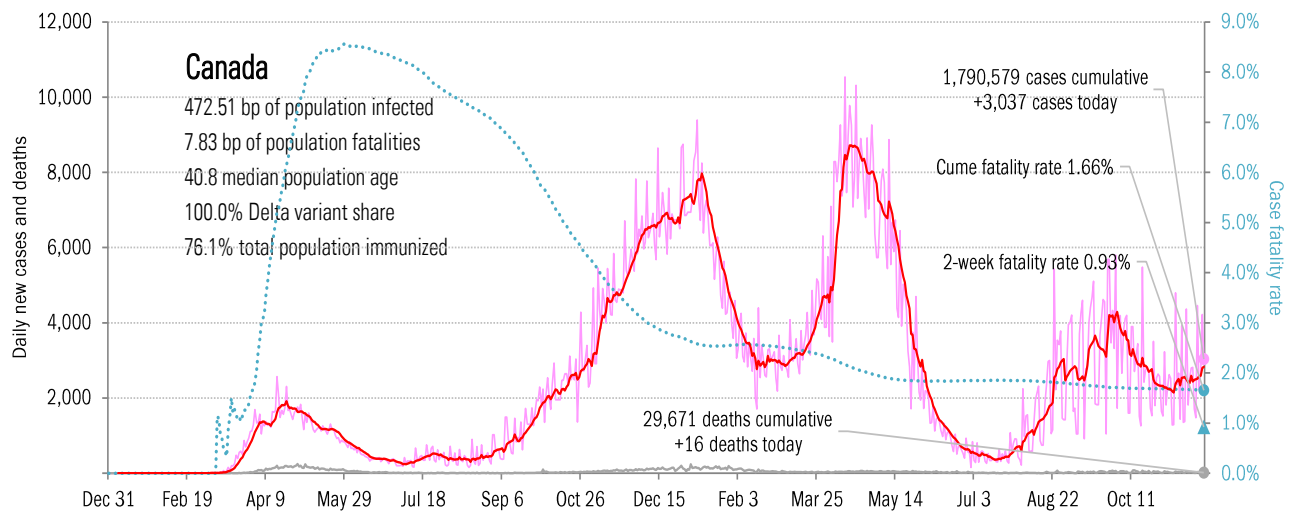
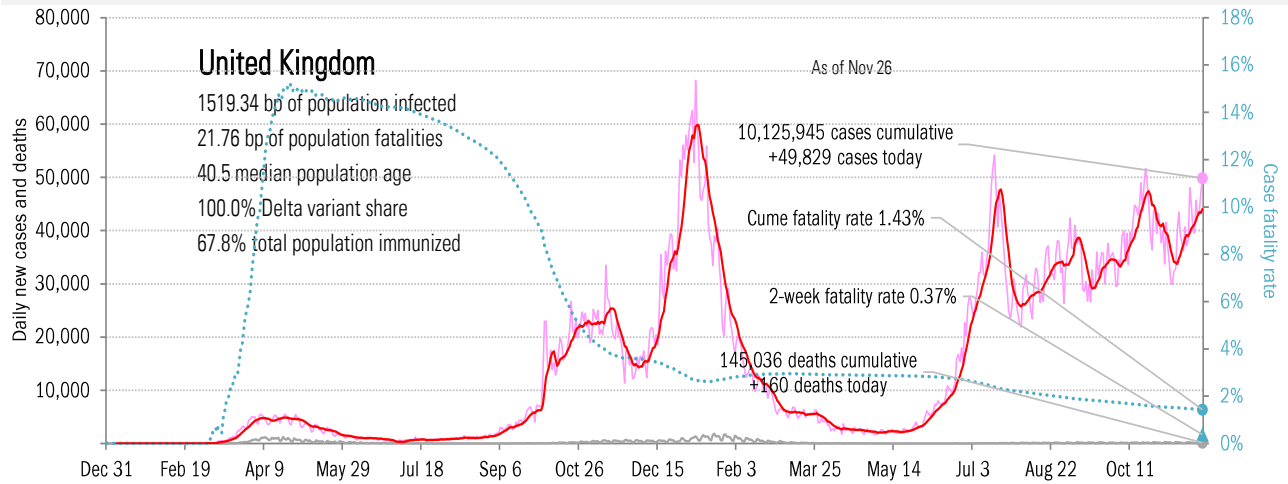
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

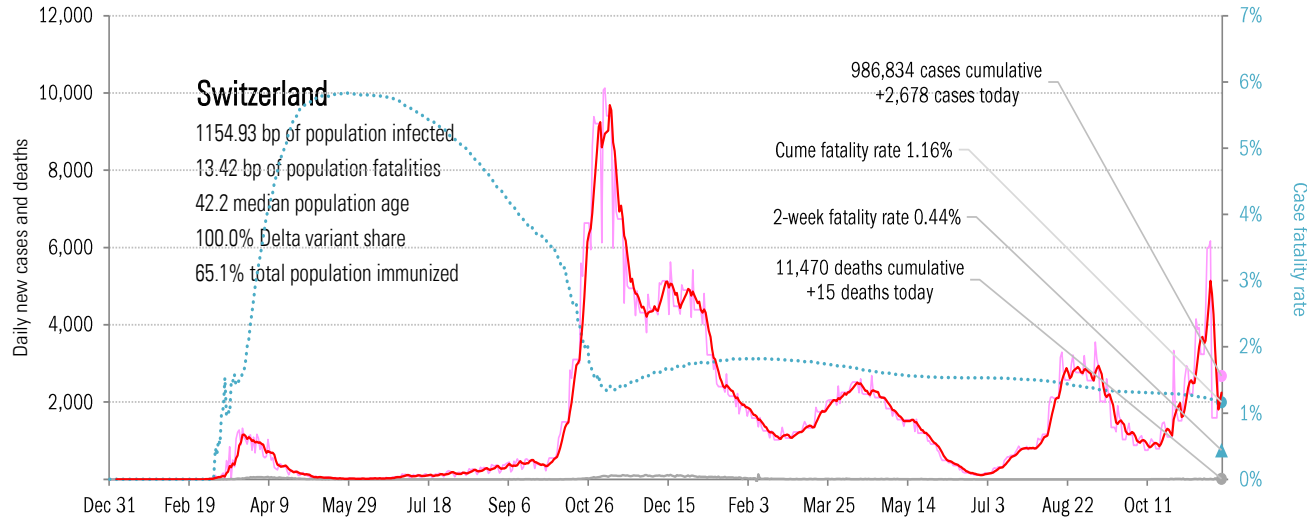
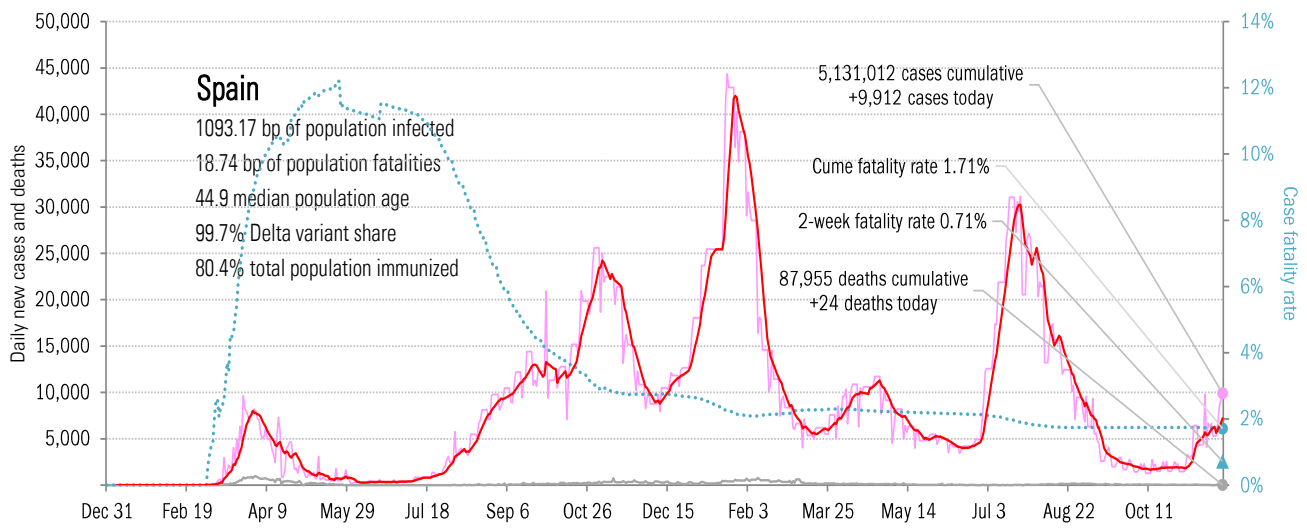
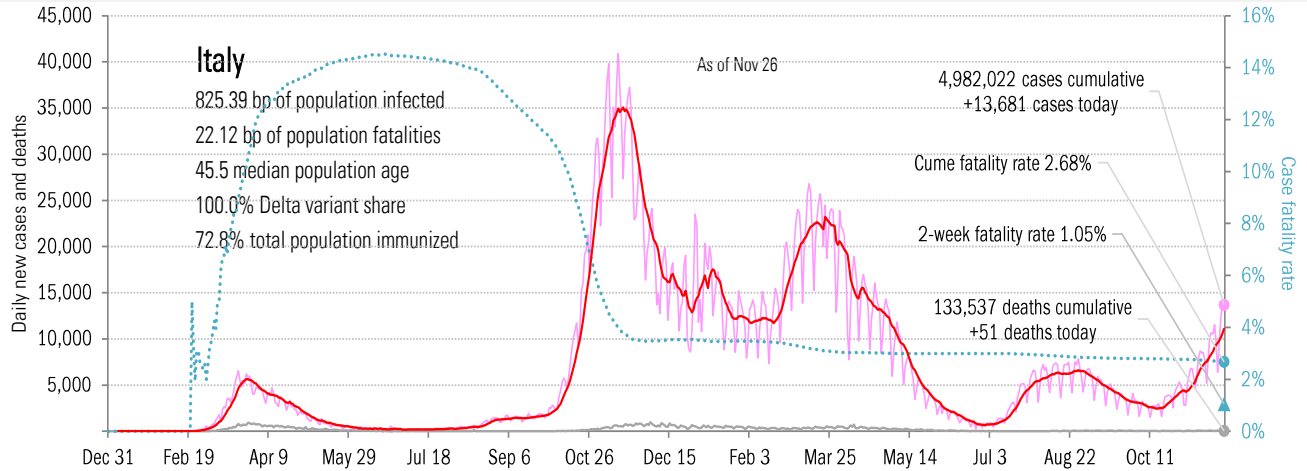


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

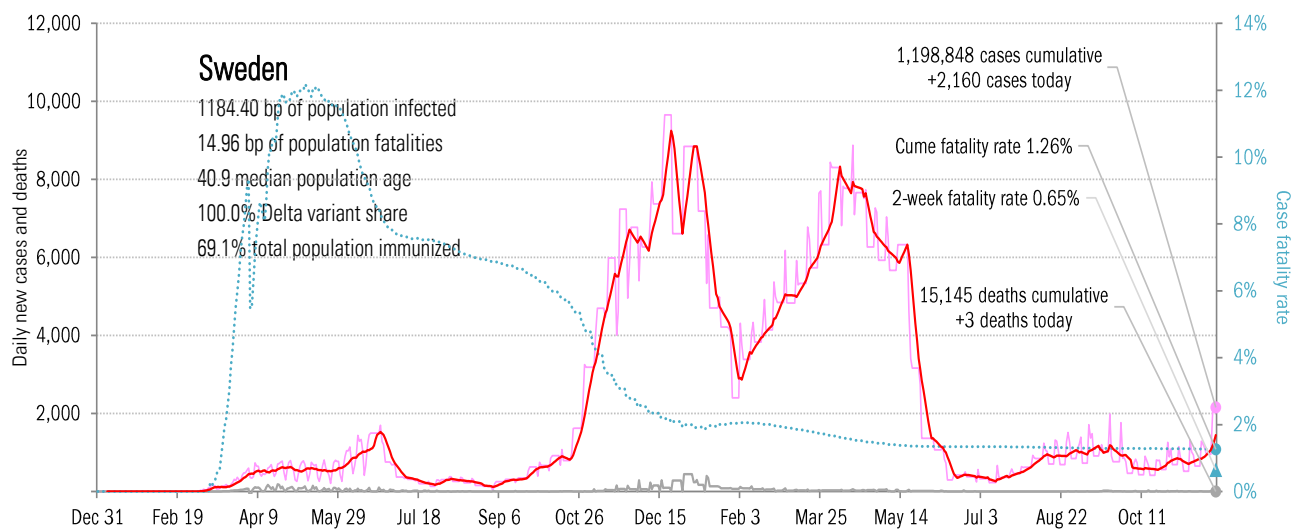
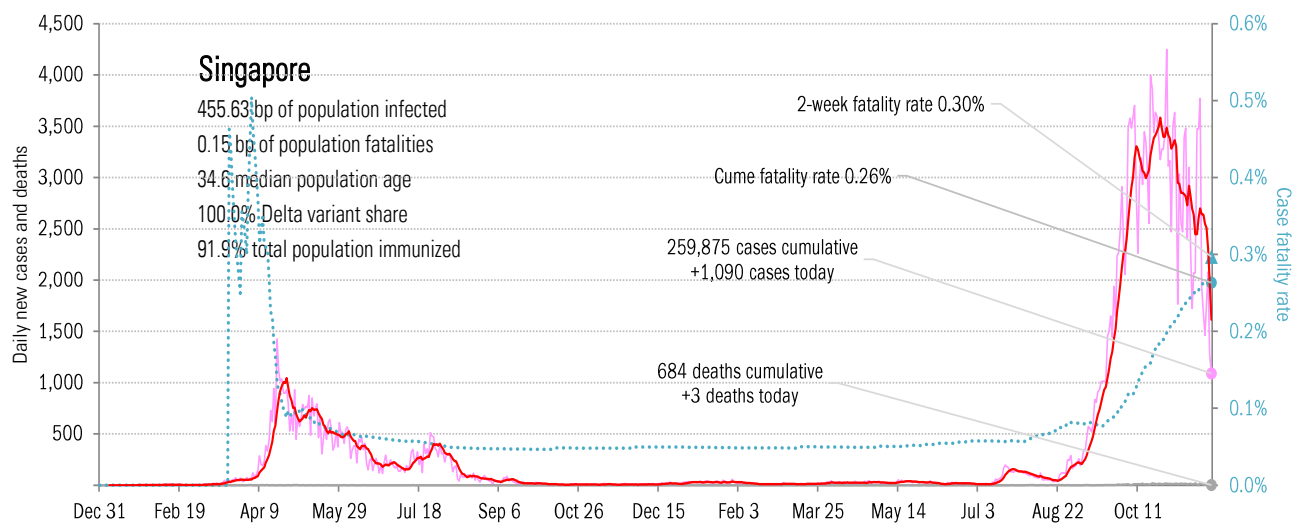
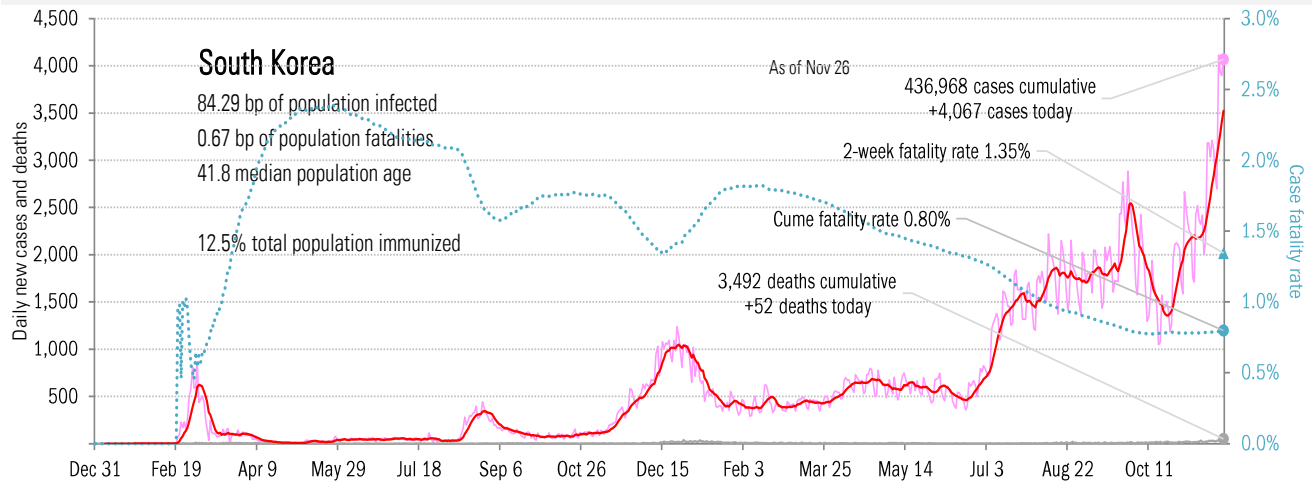
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

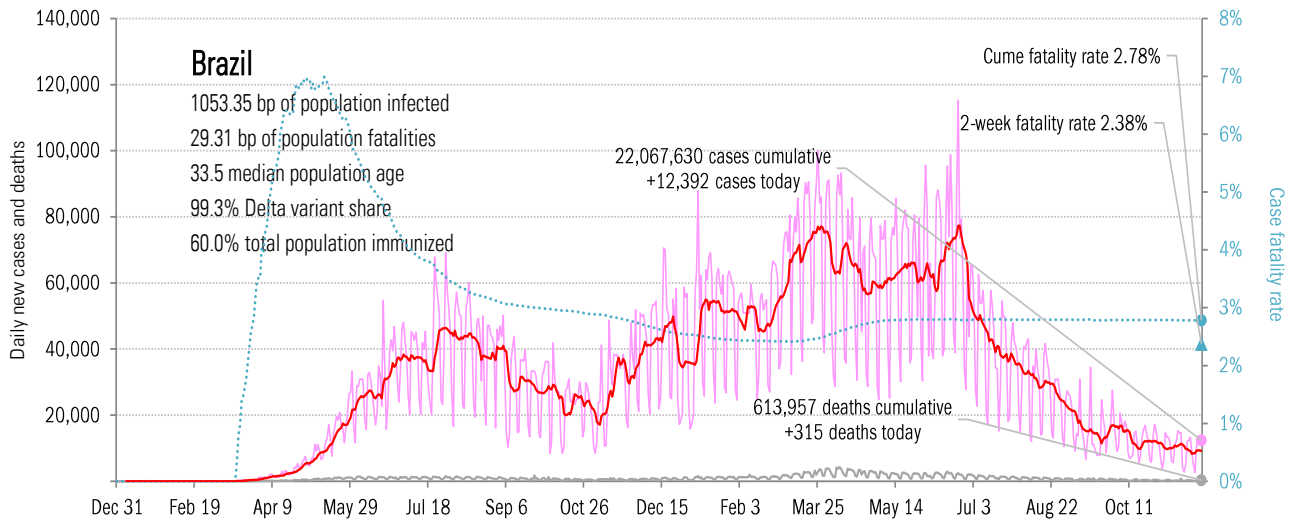
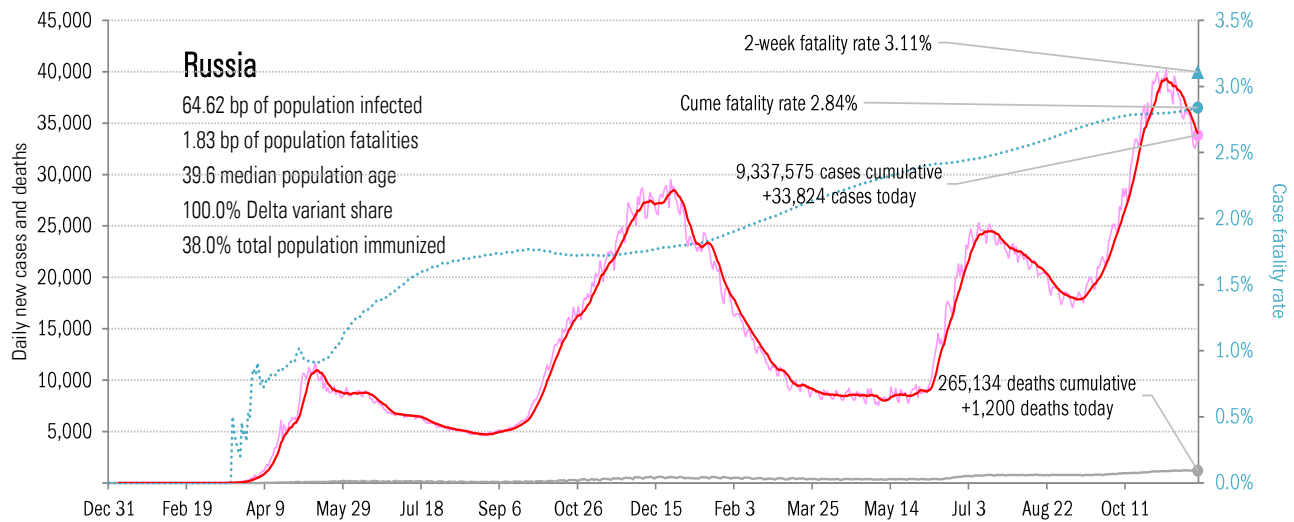
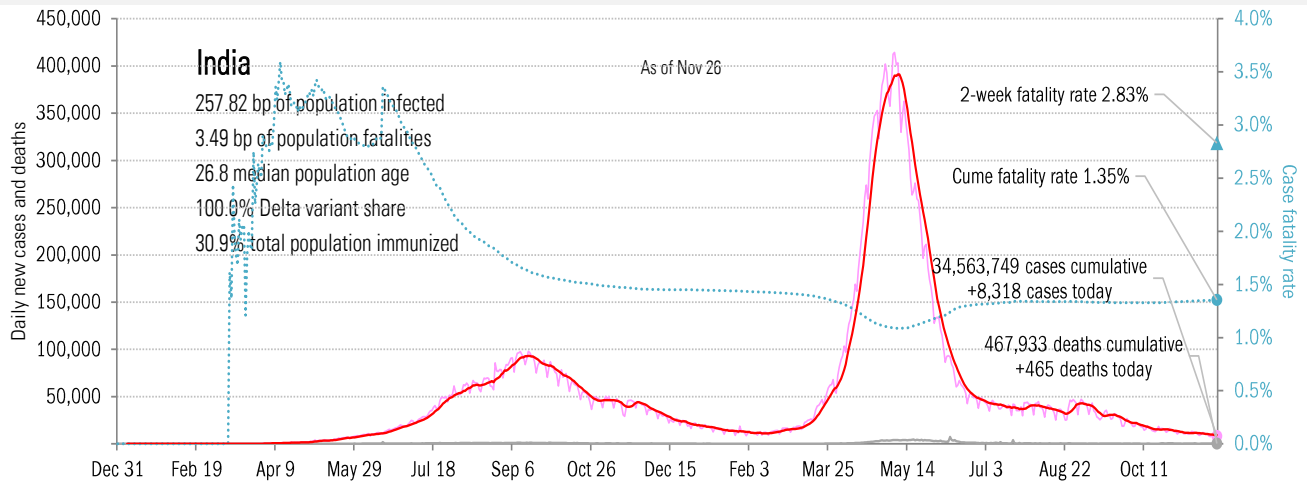
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

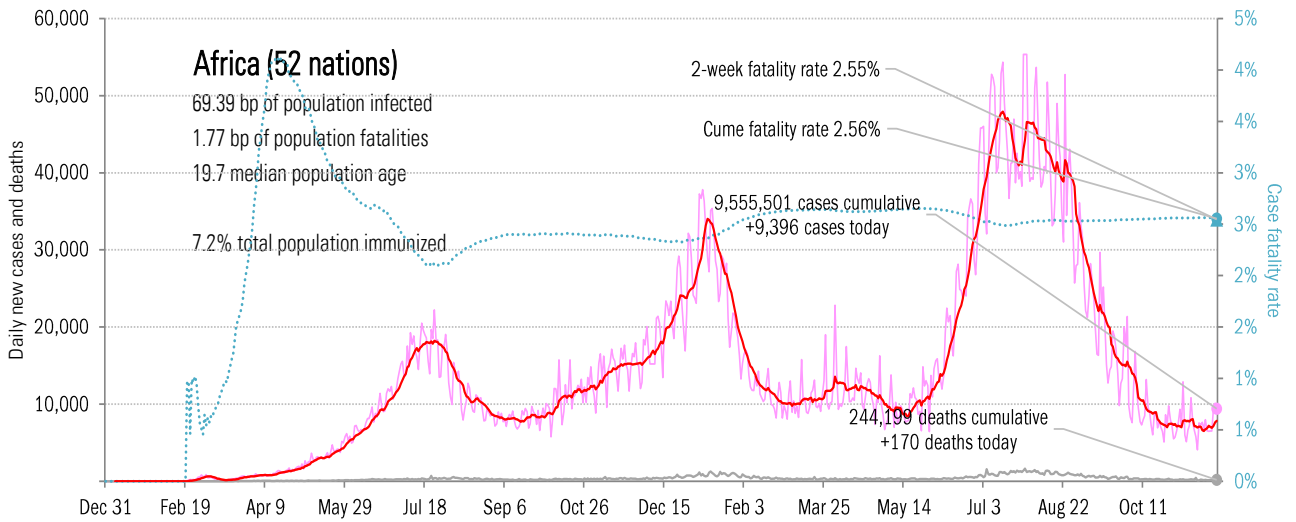
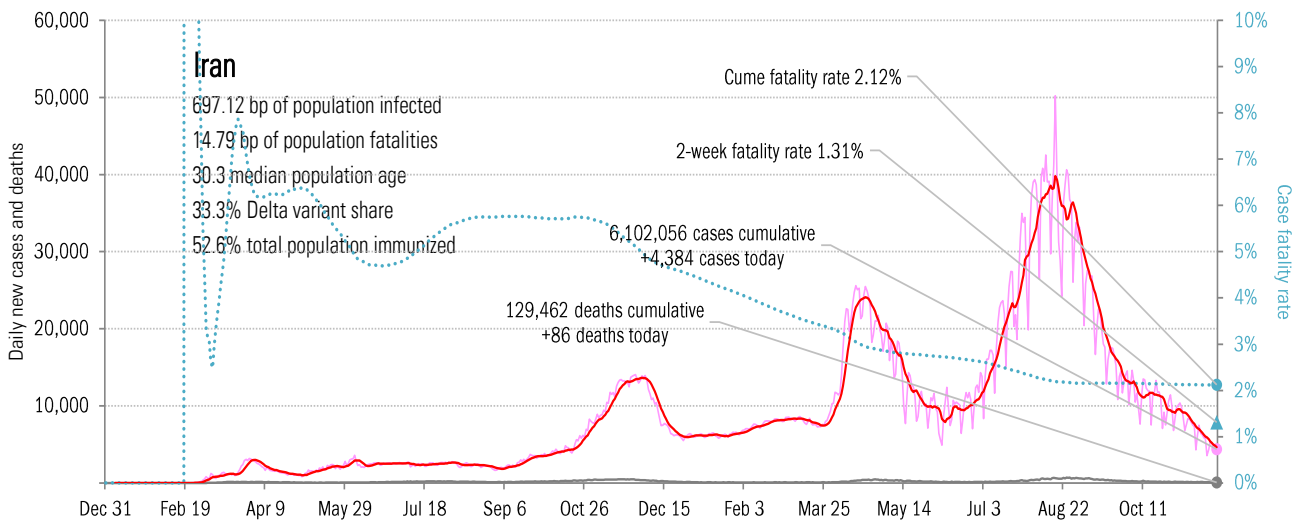
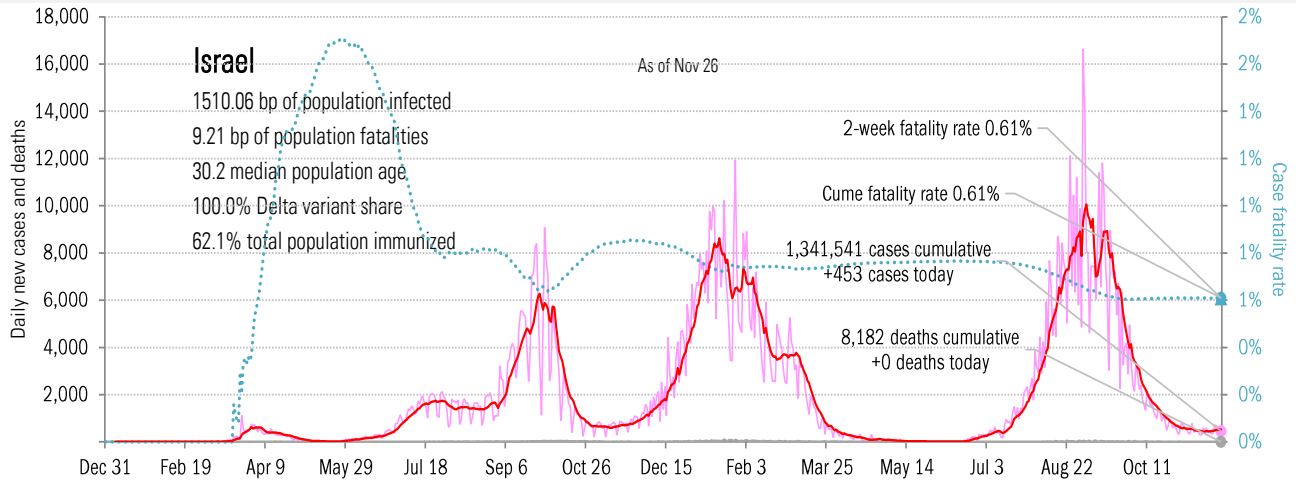
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

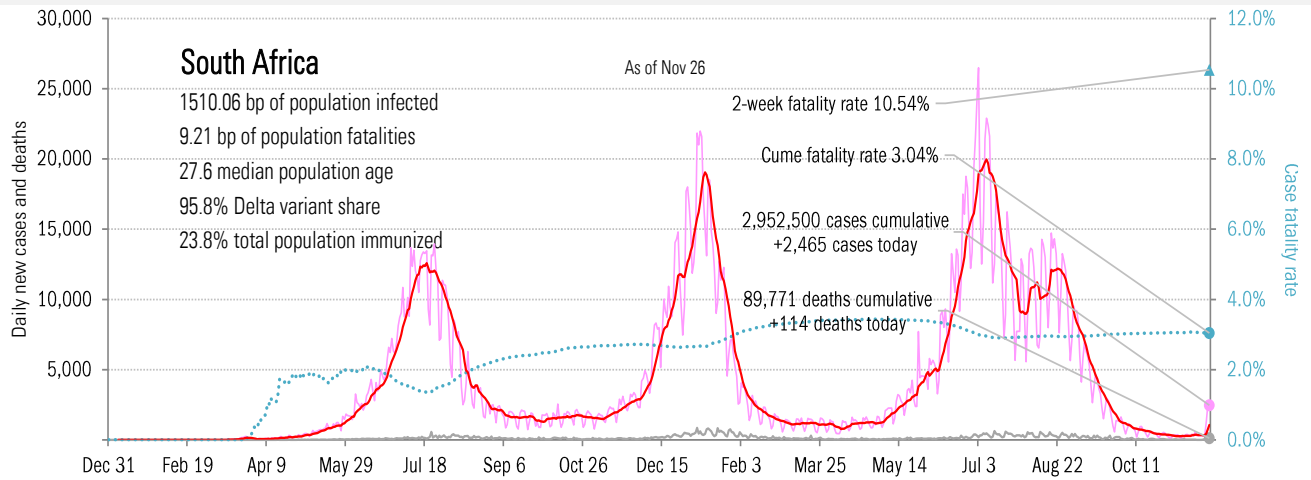
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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