

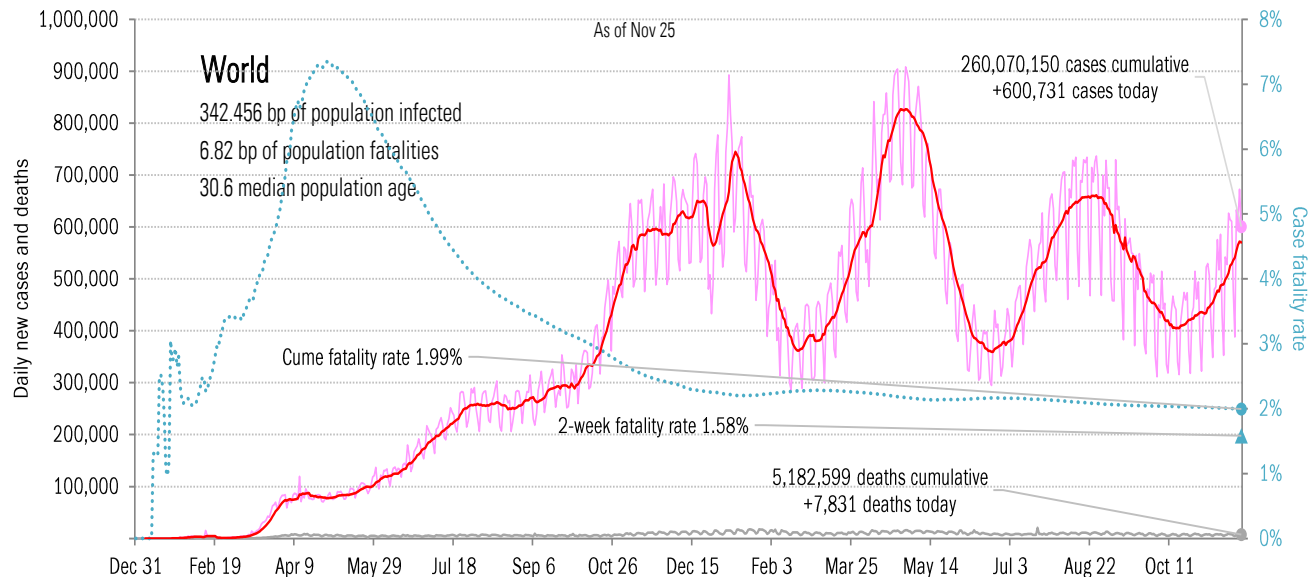
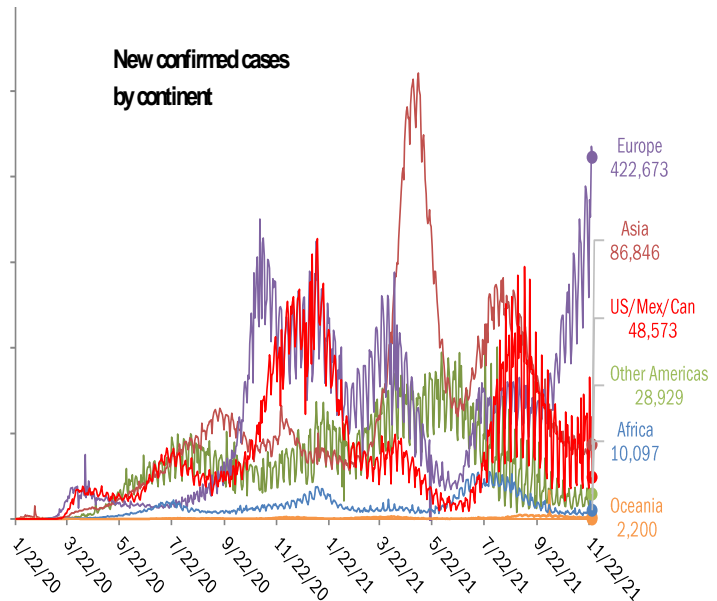
## Data Insights: Covid-2019 Monitor

Friday, November 26, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
Germany	+74,579	Russia	+1,201
United Kingdom	+47,287	Ukraine	+665
United States	+35,935	Mexico	+599
France	+33,510	Poland	+498
Russia	+32,866	India	+488
Poland	+28,143	United States	+437
Turkey	+24,467	Germany	+357
Netherlands	+22,239	Brazil	+303
Belgium	+20,836	Turkey	+222
Czechia	+18,046	Romania	+212
<b>+337,908</b>		<b>+4,982</b>	
World +600,731		World +7,831	
Top ten 56%		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

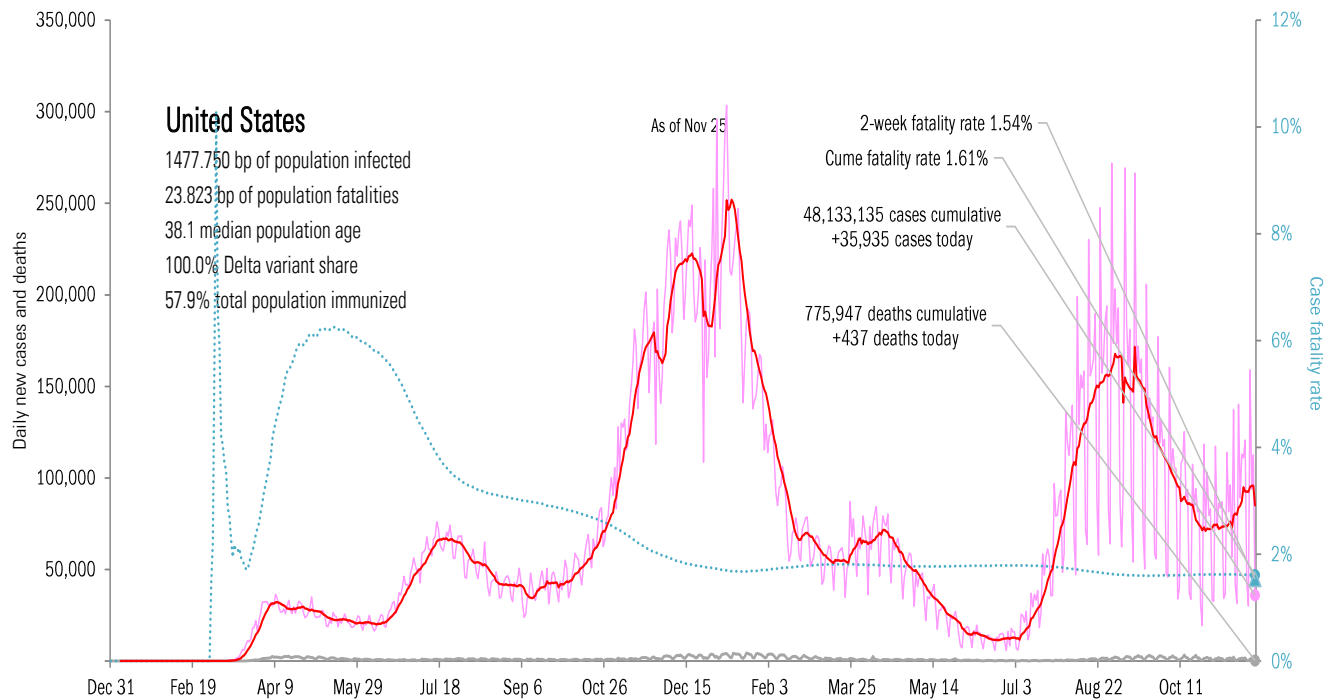
## The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
NY	+7,091		PA	+146		AZ	+71		CA	5,057,759		CA	74,098		TX	382,488		HI	93%	NM	91%
PA	+5,950		AZ	+75		IL	+65		TX	4,321,057		TX	73,605		FL	322,882		RI	89%	RI	88%
WI	+4,309		FL	+43		GA	+62		FL	3,728,064		FL	61,297		CA	319,051		MA	87%	VT	88%
AZ	+3,349		KS	+31		PA	+49		NY	2,699,233		NY	57,322		NY	170,755		PA	85%	MI	87%
CO	+3,055		NY	+24		MN	+36		IL	1,784,900		PA	33,247		GA	162,543		MI	84%	KY	86%
NJ	+2,851		VA	+19		CH	+30		PA	1,710,478		GA	30,358		CH	132,863		WA	83%	AL	85%
KS	+2,814		WI	+18		CA	+28		CH	1,660,131		IL	28,746		PA	124,761		MN	82%	NE	85%
VA	+1,781		CO	+17		FL	+28		GA	1,659,491		NJ	28,323		KY	113,869		NH	82%	MN	85%
FL	+1,413		NJ	+16		IN	+27		NC	1,524,078		CH	26,190		IL	109,451		MO	81%	DE	84%
ND	+708		AL	+13		ME	+20		MI	1,447,230		MI	25,244		MI	101,189		NY	81%	NH	84%
+33,321			+402			+416			25,592,421			438,430			1,939,852						
All states	+35,935			+437			+416		All states	48,133,135			775,947			3,483,868		All states	70%		67%
Top ten	93%			92%			100%		Top ten	53%			57%			56%		Median	76%		78%

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-20,039	MI	-316	MI	-173	AL	+20 bp
CH	-6,751	CA	-149	CH	-79	IL	+20 bp
IL	-5,058	TX	-87	WI	-66	NC	+20 bp
TX	-4,210	IA	-86	IA	-61	SD	+20 bp
IN	-3,983	FL	-64	NY	-56	AR	+10 bp



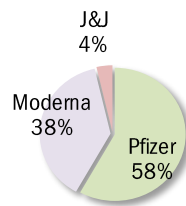
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# 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



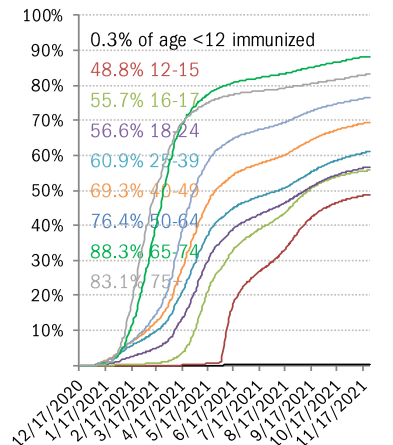
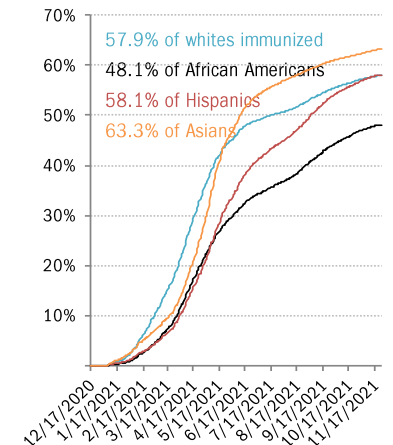
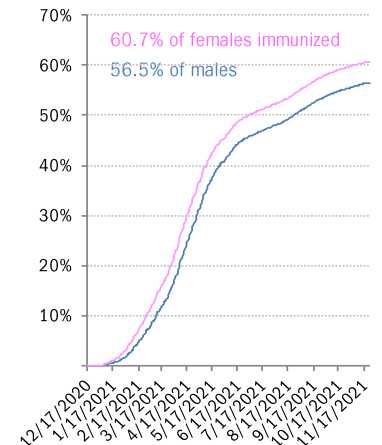
State	Best	Middle	Worst
At least partial immunity as % population			
Full immunity as % population			

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

As of Nov 24

<b>WI</b>	65.4%	<b>ME</b>	81.4%
	59.3%		72.1%
<b>WA</b>	72.3%	<b>ID</b>	50.5%
	64.8%		45.1%
<b>MT</b>	59.4%	<b>ND</b>	57.6%
	51.7%		48.6%
<b>MN</b>	68.5%	<b>IL</b>	68.7%
	62.2%		61.4%
<b>MI</b>	60.8%	<b>NY</b>	77.5%
	54.4%		68.2%
<b>OR</b>	71.0%	<b>NV</b>	65.9%
	63.8%		54.2%
<b>WY</b>	53.2%	<b>SD</b>	66.3%
	45.3%		54.3%
<b>IA</b>	62.2%	<b>IN</b>	55.5%
	56.5%		50.5%
<b>OH</b>	58.0%	<b>PA</b>	80.8%
	52.8%		58.0%
<b>CA</b>	78.2%	<b>UT</b>	63.7%
	62.8%		55.2%
<b>CO</b>	70.9%	<b>NE</b>	63.7%
	62.9%		57.2%
<b>MO</b>	59.4%	<b>KY</b>	59.9%
	50.8%		51.9%
<b>WV</b>	53.8%	<b>VA</b>	74.9%
	41.5%		64.6%
<b>NC</b>	69.4%	<b>MD</b>	76.4%
	54.0%		67.2%
<b>SC</b>	59.8%	<b>CT</b>	83.3%
	51.2%		71.7%
<b>DC</b>	80.6%	<b>RI</b>	82.4%
	64.1%		72.2%
<b>DE</b>	71.4%		
	60.9%		
<b>OK</b>	62.3%	<b>LA</b>	55.3%
	51.3%		48.7%
<b>MS</b>	53.7%	<b>AL</b>	56.2%
	46.9%		46.0%
<b>GA</b>	58.6%		49.4%
<b>TX</b>	63.7%	<b>FL</b>	71.3%
	54.5%		61.0%
		<b>PR</b>	84.2%
			73.9%

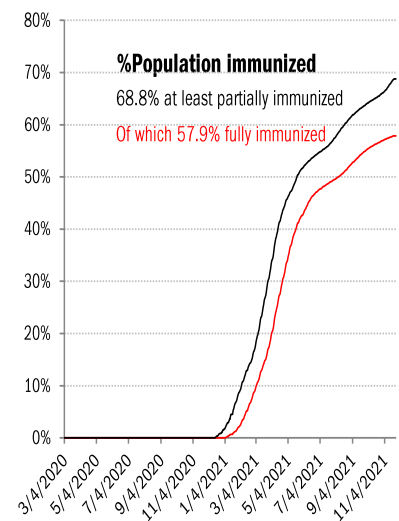
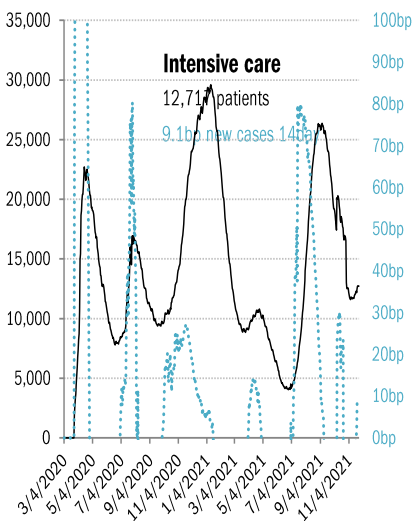
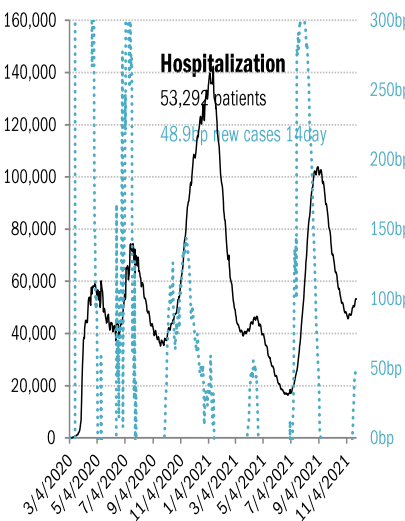
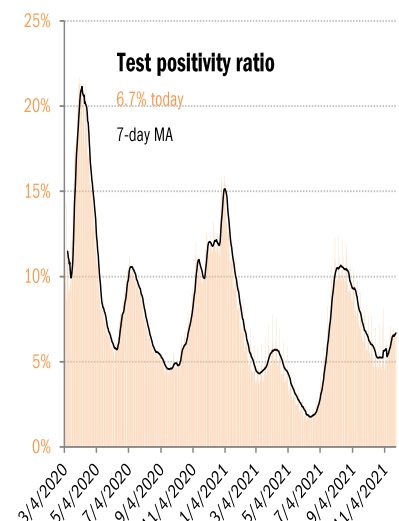
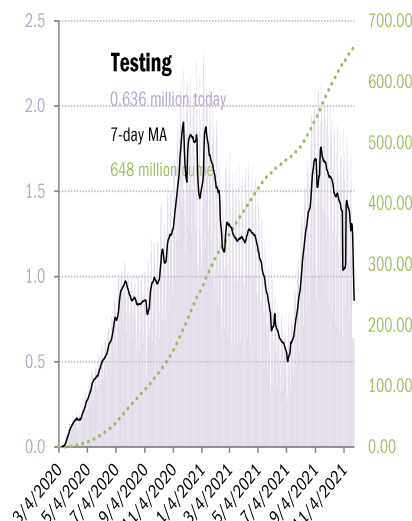
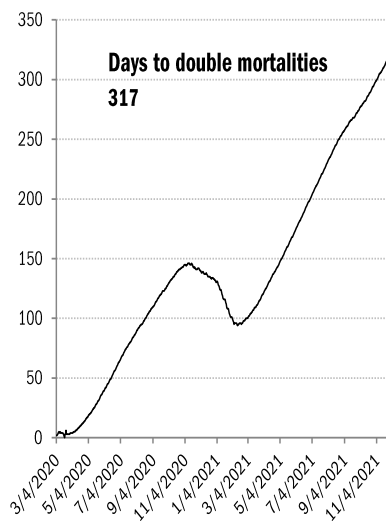
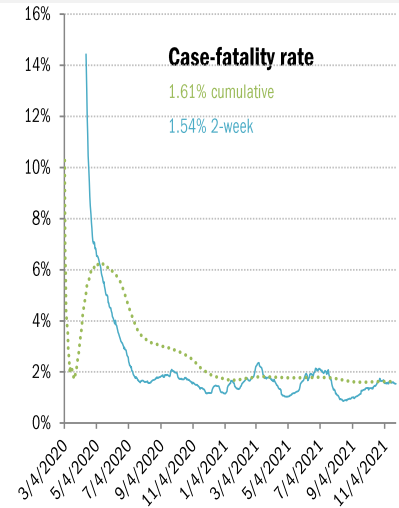
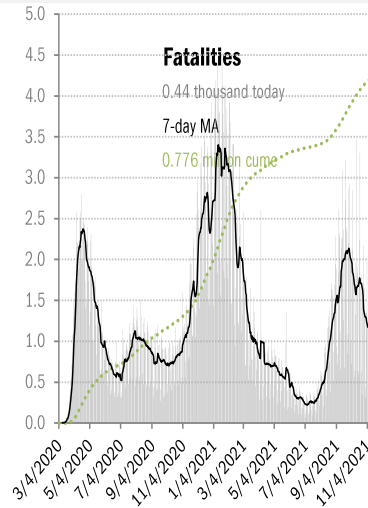
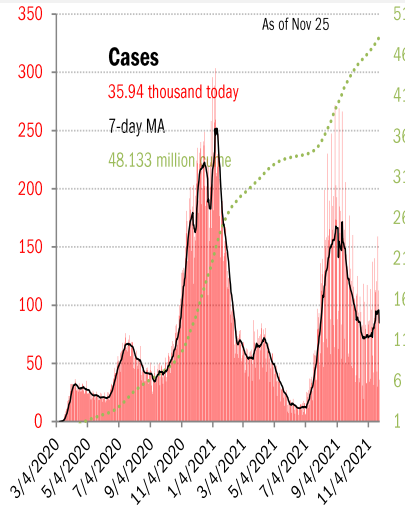
## The demographics of US vaccination



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

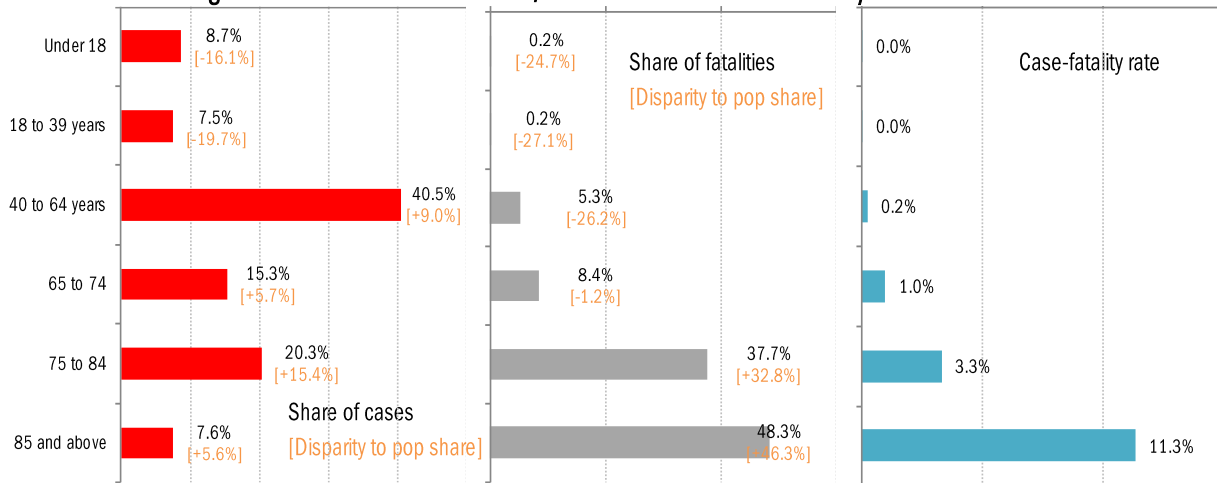
# US deep-dive

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

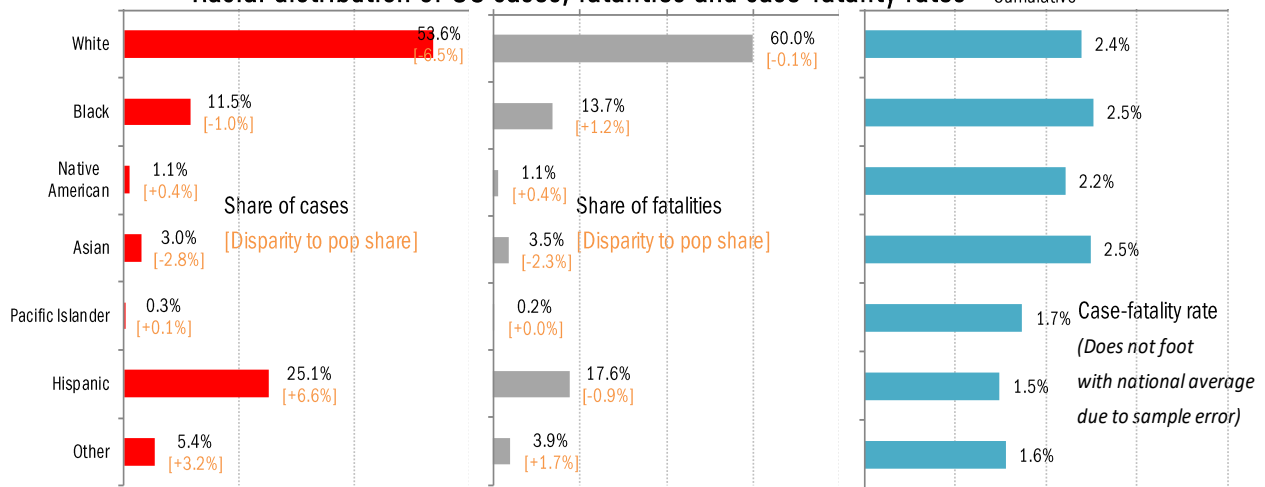


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

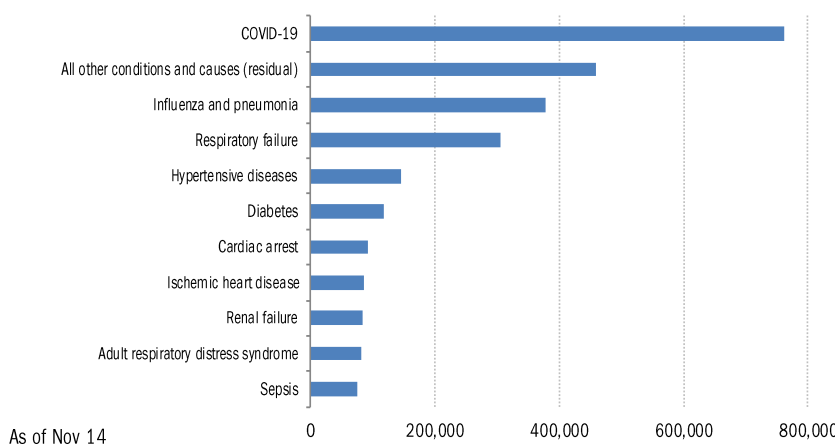


Racial distribution of US cases, fatalities and case-fatality rates



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

### [WHO Lauds South Africa's Speed in Reporting New Virus Variant](#)

Thomas Mulier  
*Bloomberg*  
November 26, 2021

### [New Covid-19 Variant Sets Off Fears of Restrictions, Arrives in Europe](#)

Gabriele Steinhauser  
*Wall Street Journal*  
November 26, 2021

### [South Africa Raises Alarm Over New Coronavirus Variant](#)

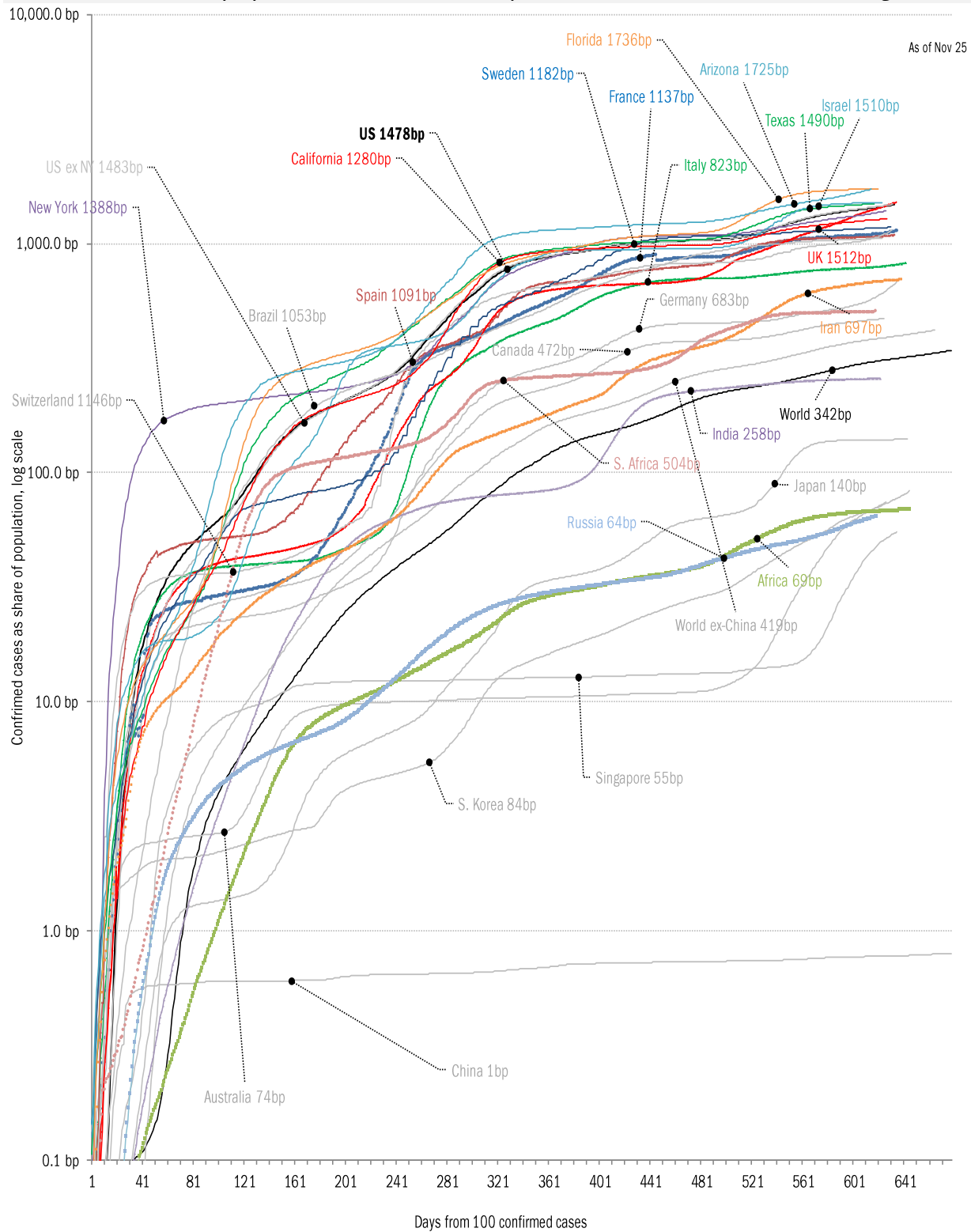
Gabriele Steinhauser  
*Wall Street Journal*  
November 25, 2021

## Meme of the day



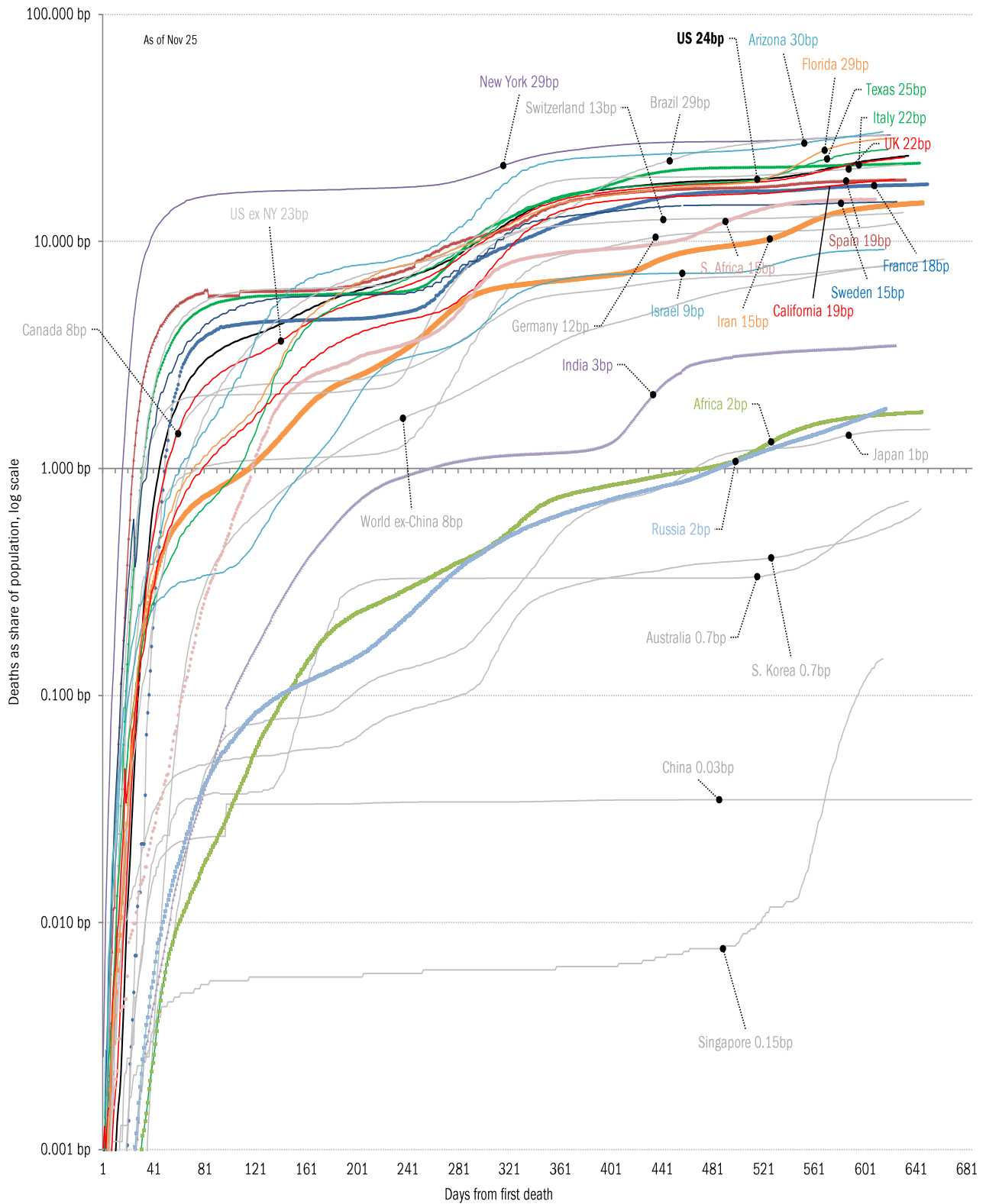
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



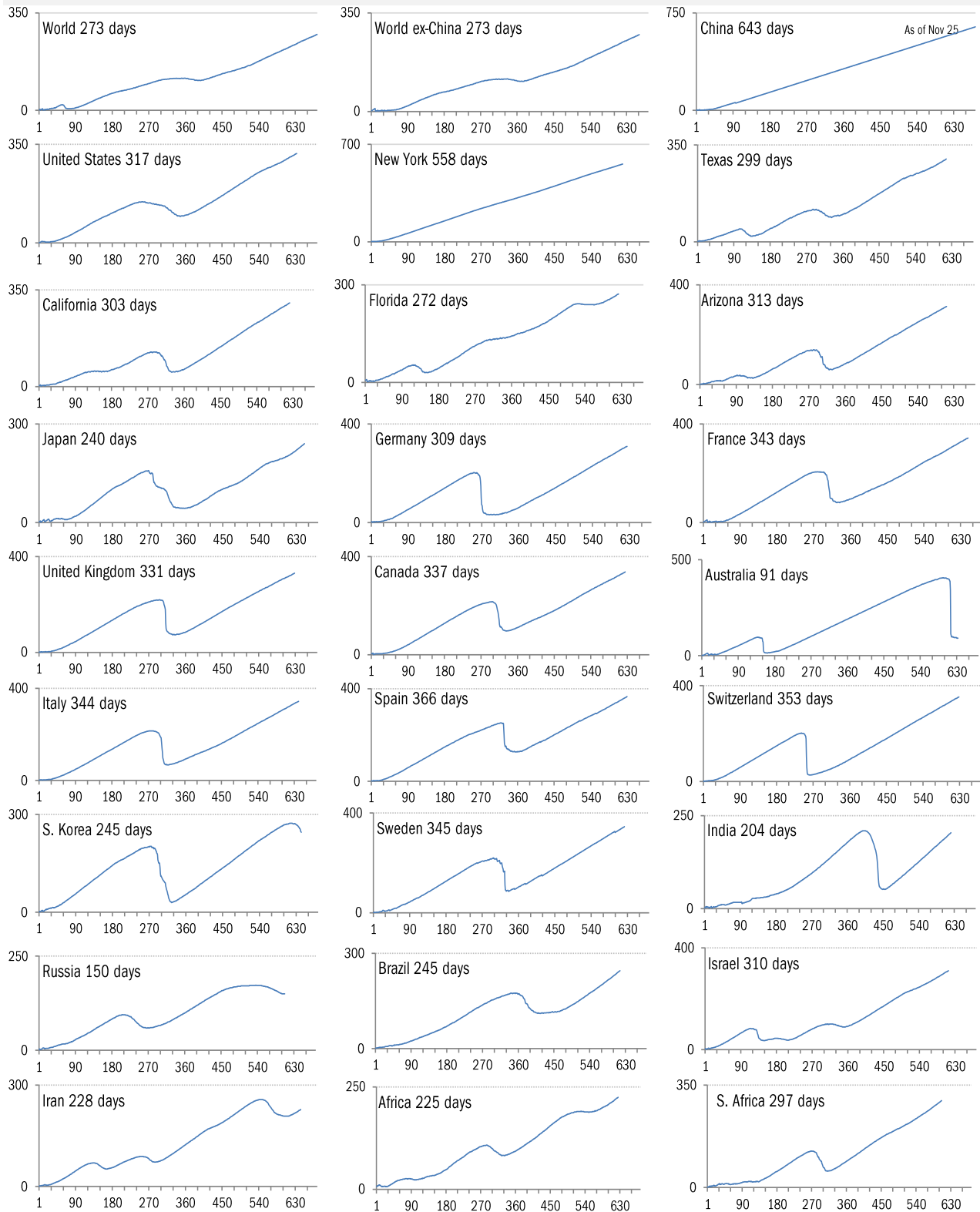
Source: [Johns Hopkins](#), TrendMacro calculations



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

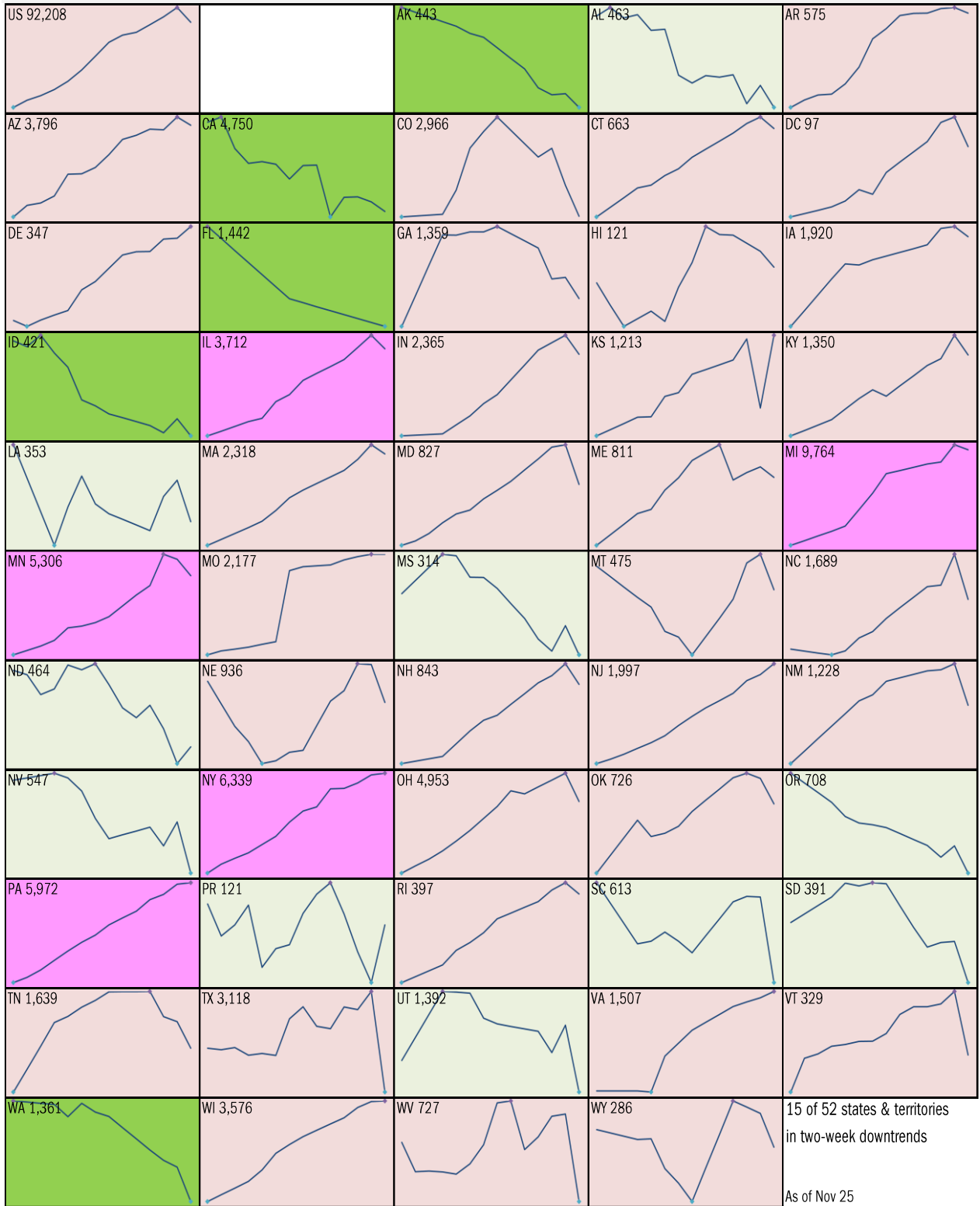
Vertical: days to double deaths Horizontal: days from first death

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

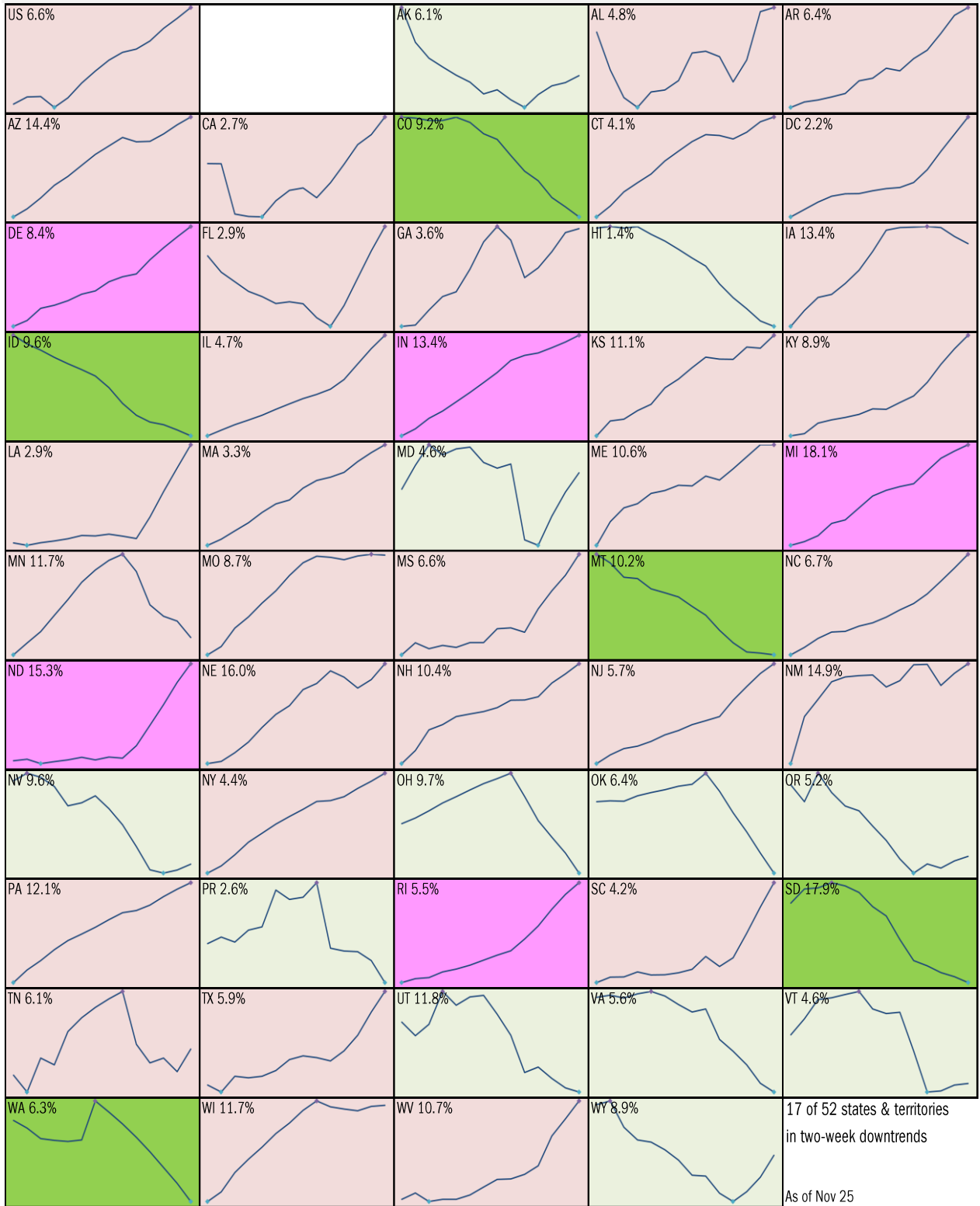


Source: [Johns Hopkins](#), TrendMacro calculations

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

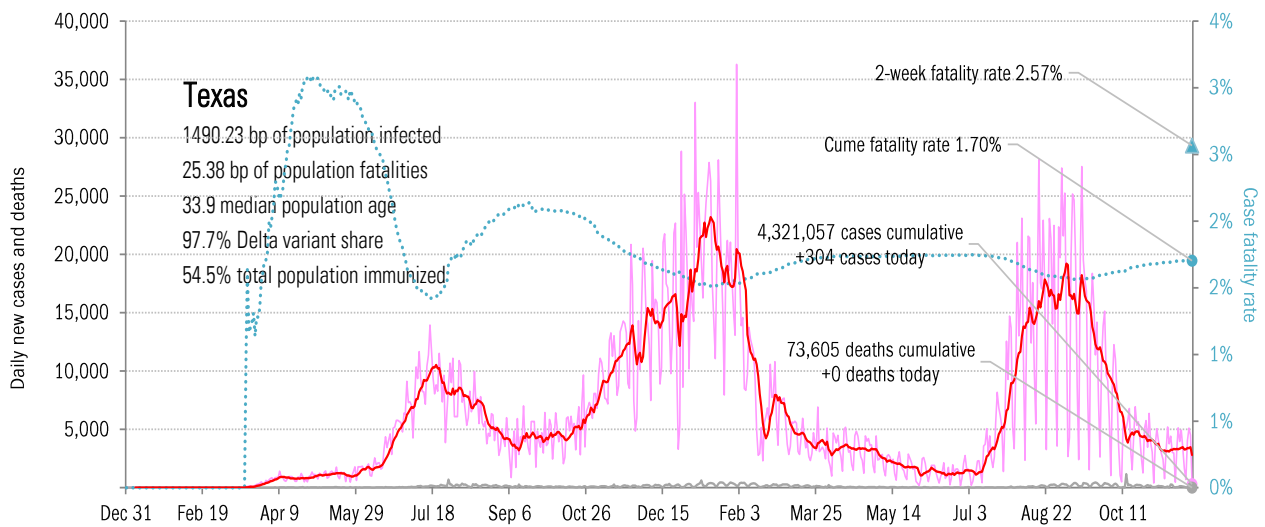
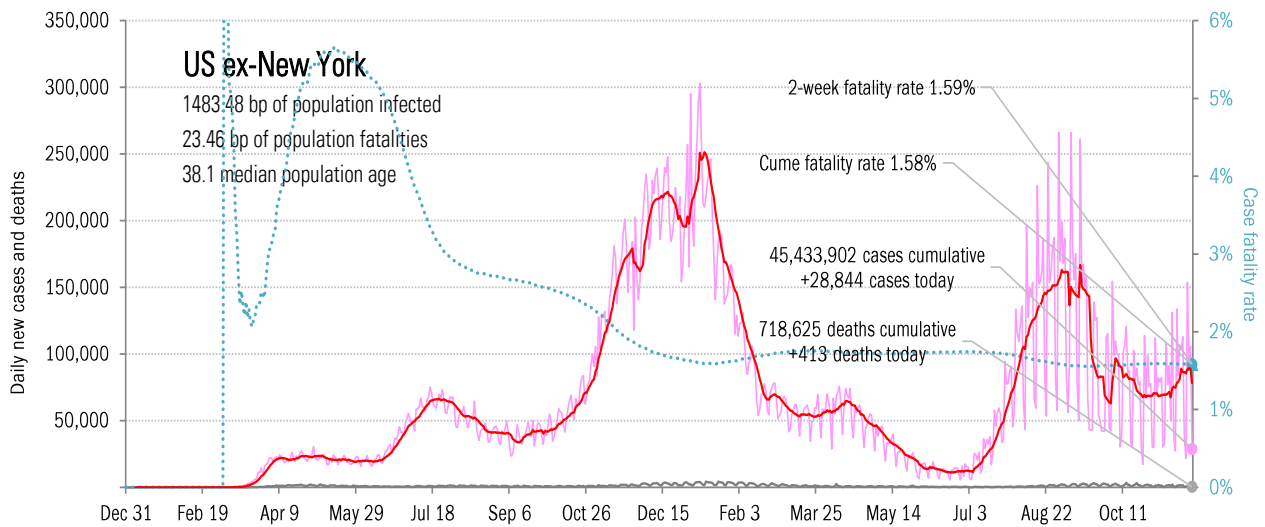
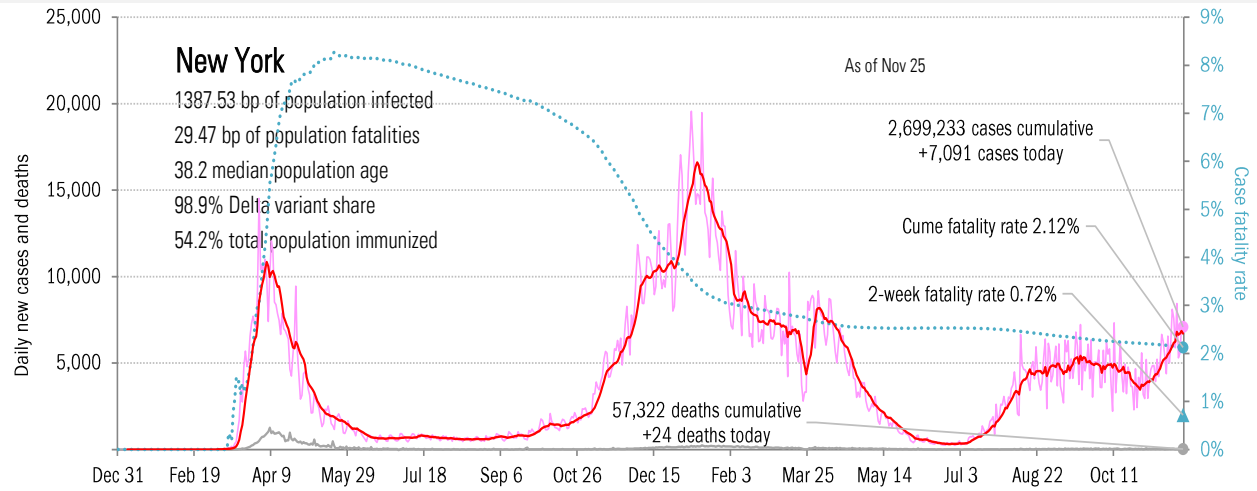
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

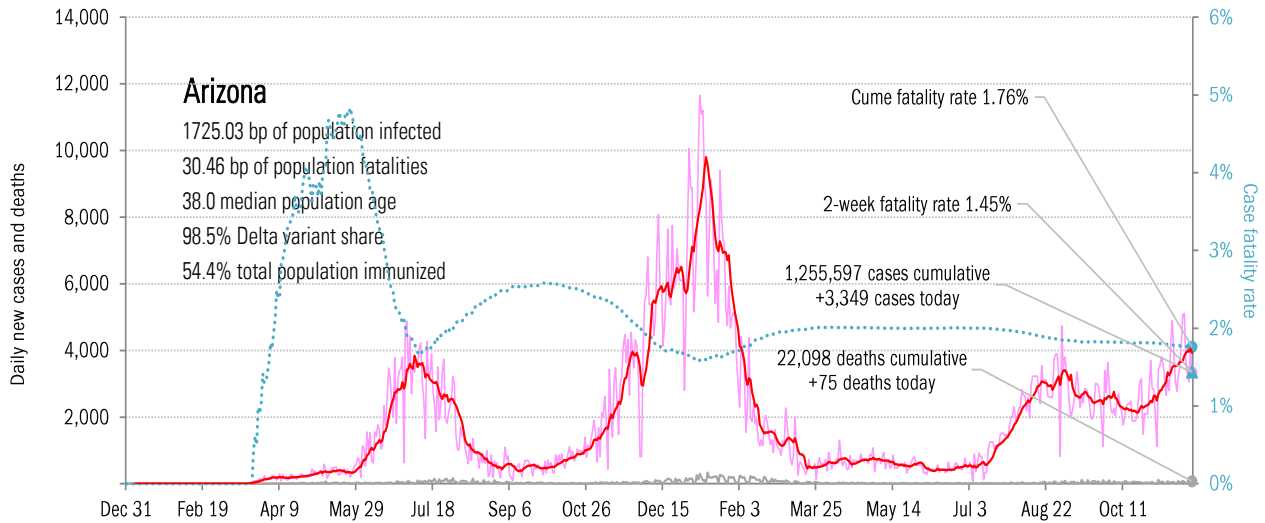
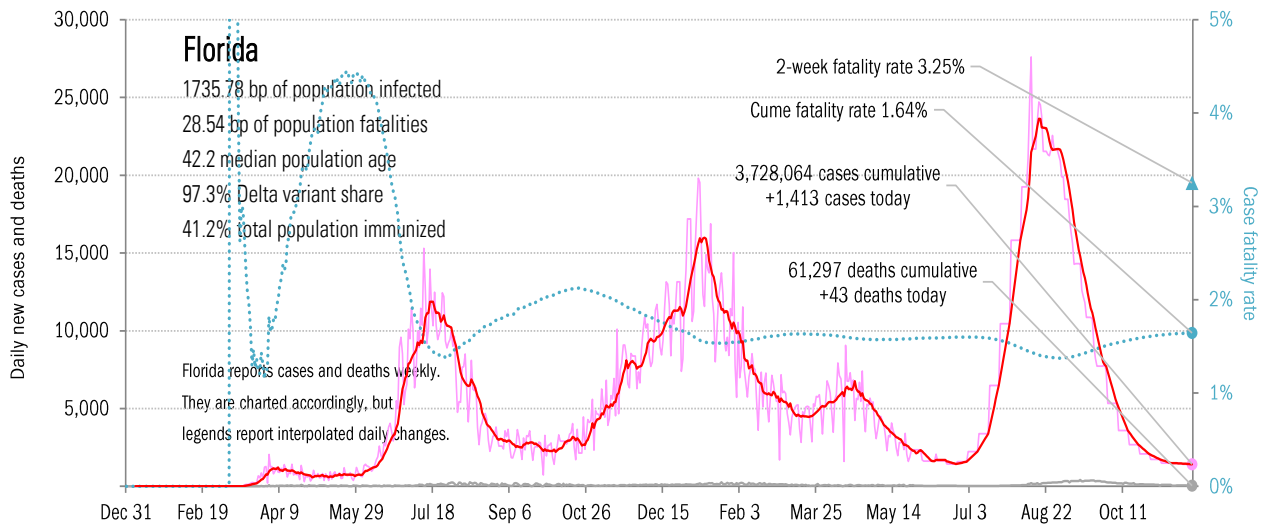
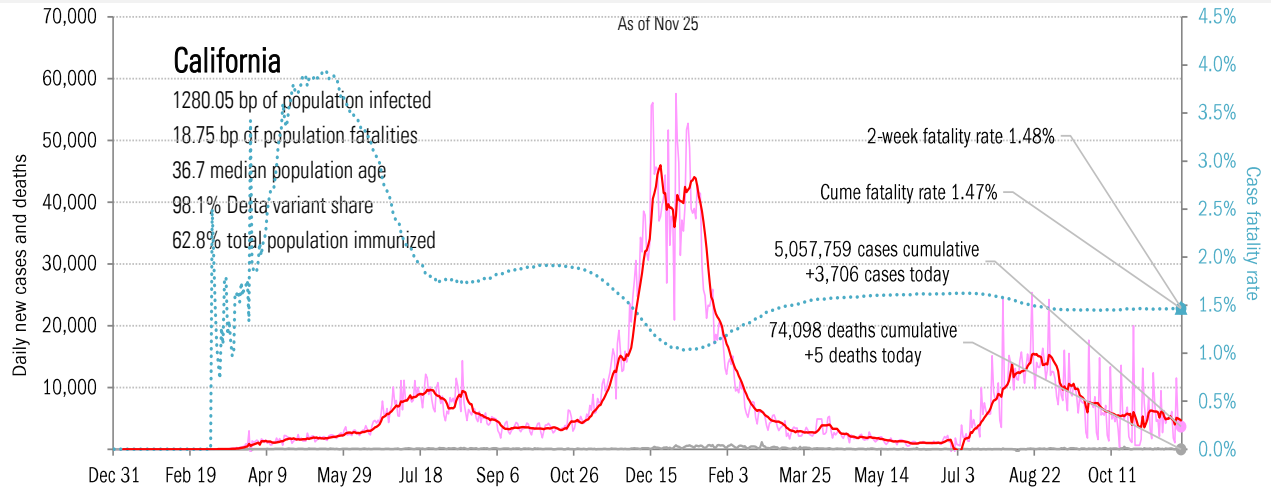
Cases: 7-day average and daily Deaths: Daily



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

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

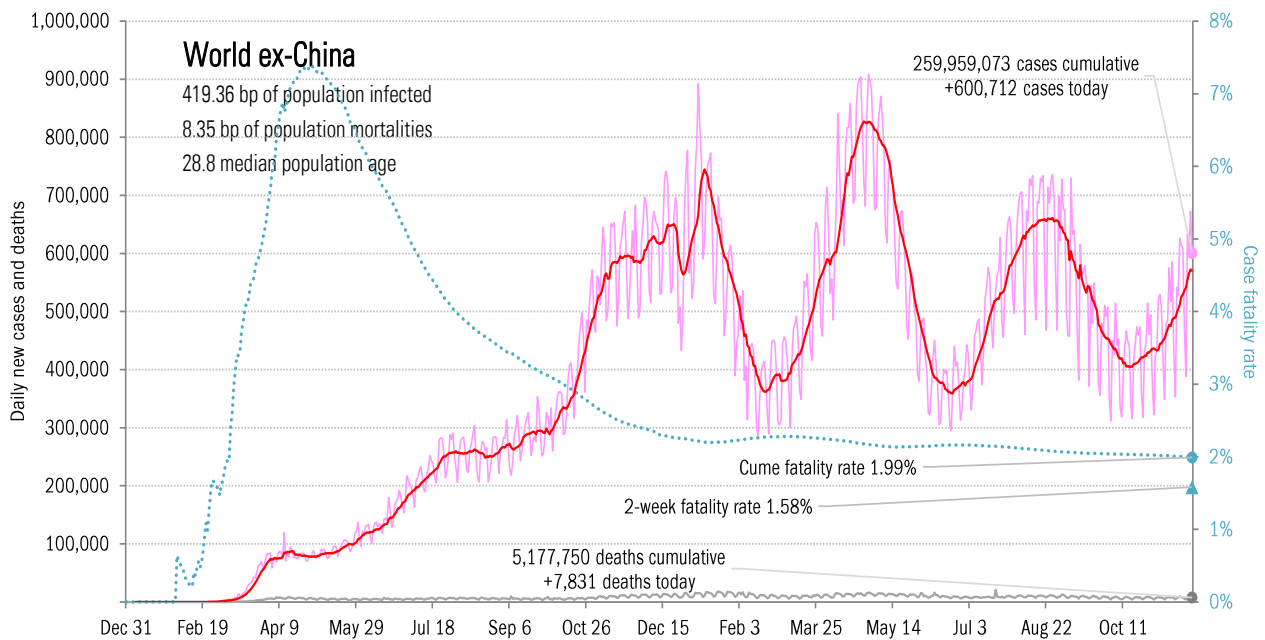
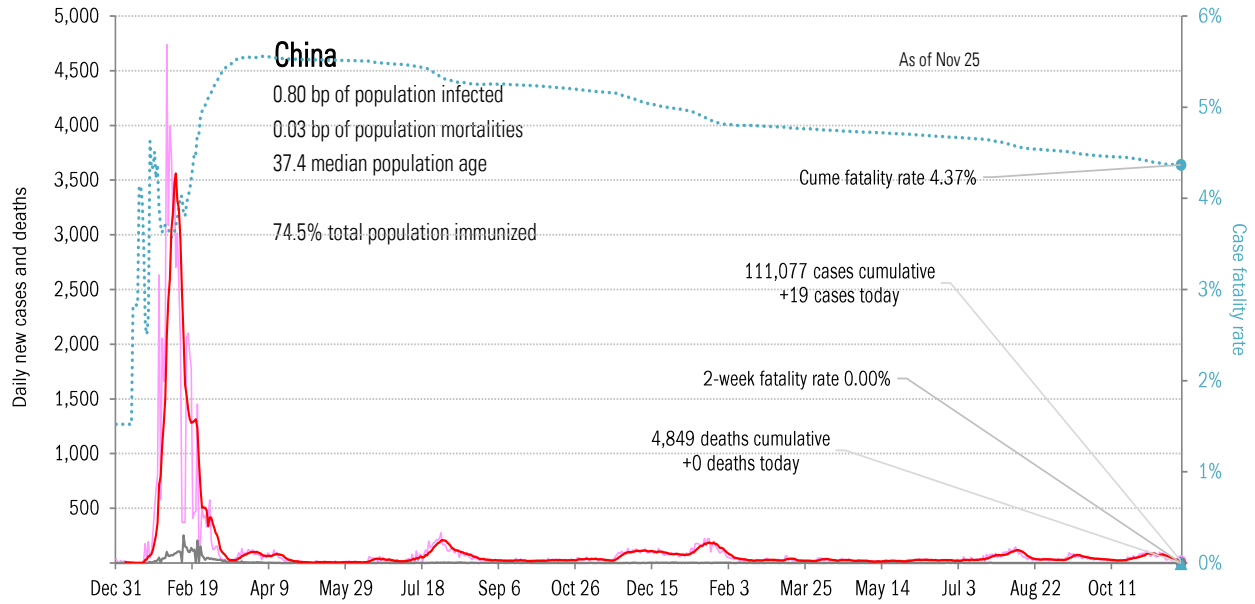
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

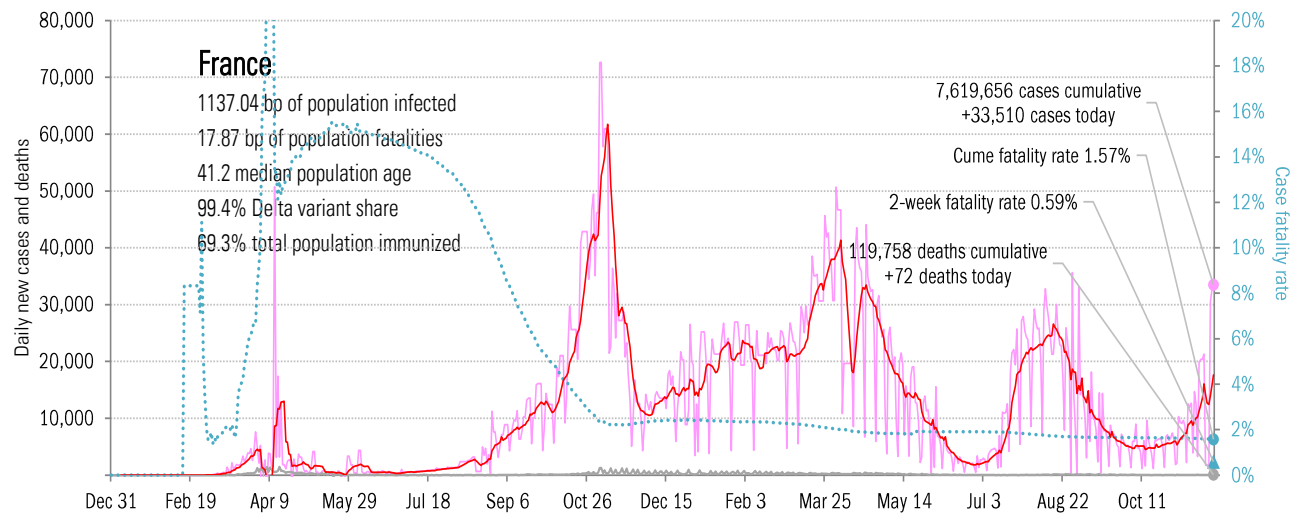
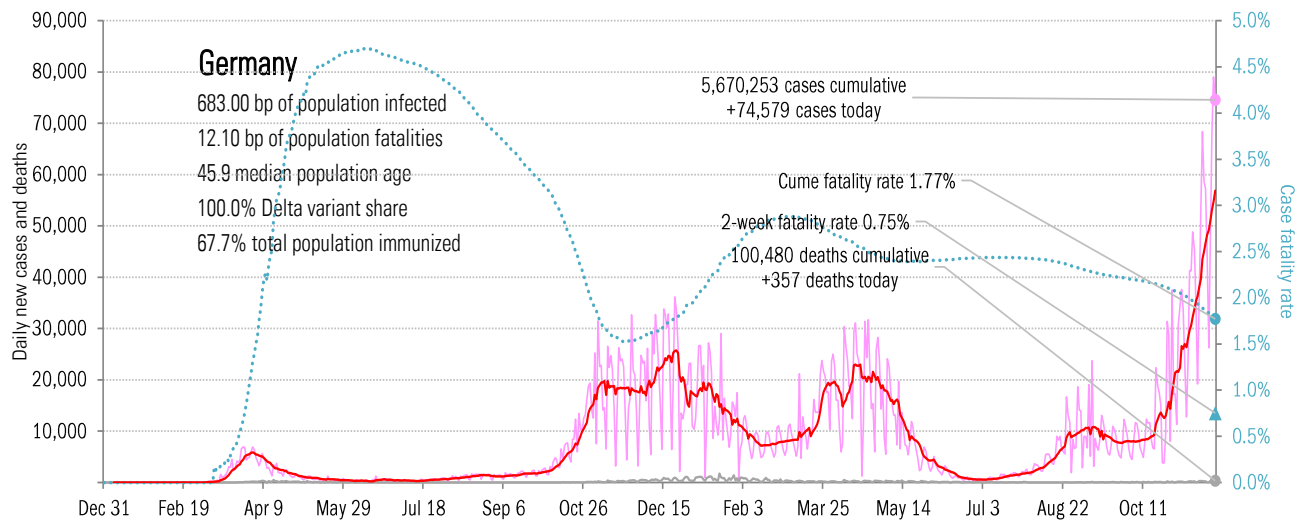
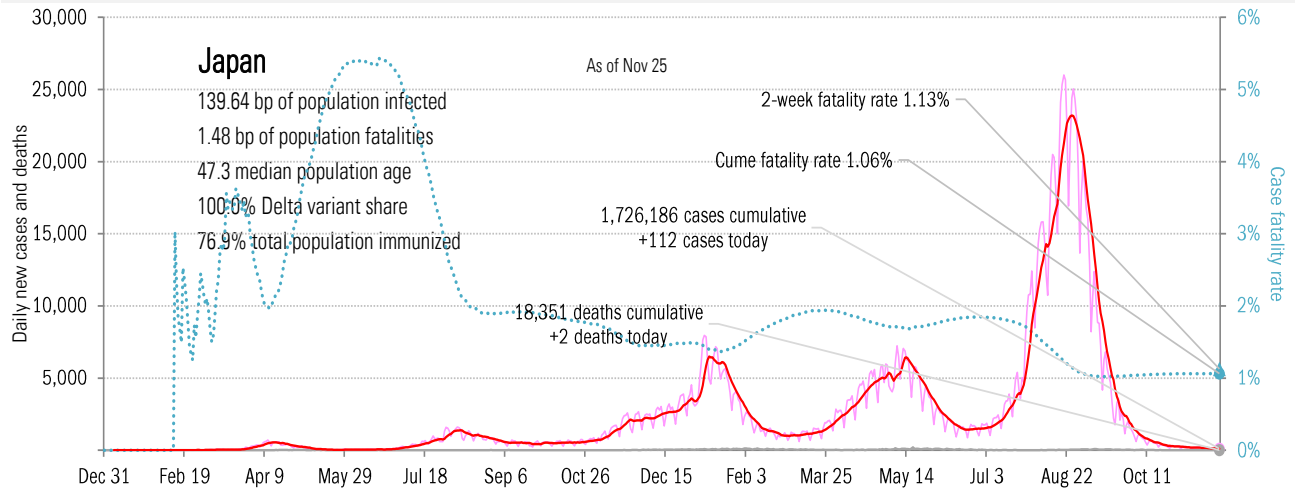
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

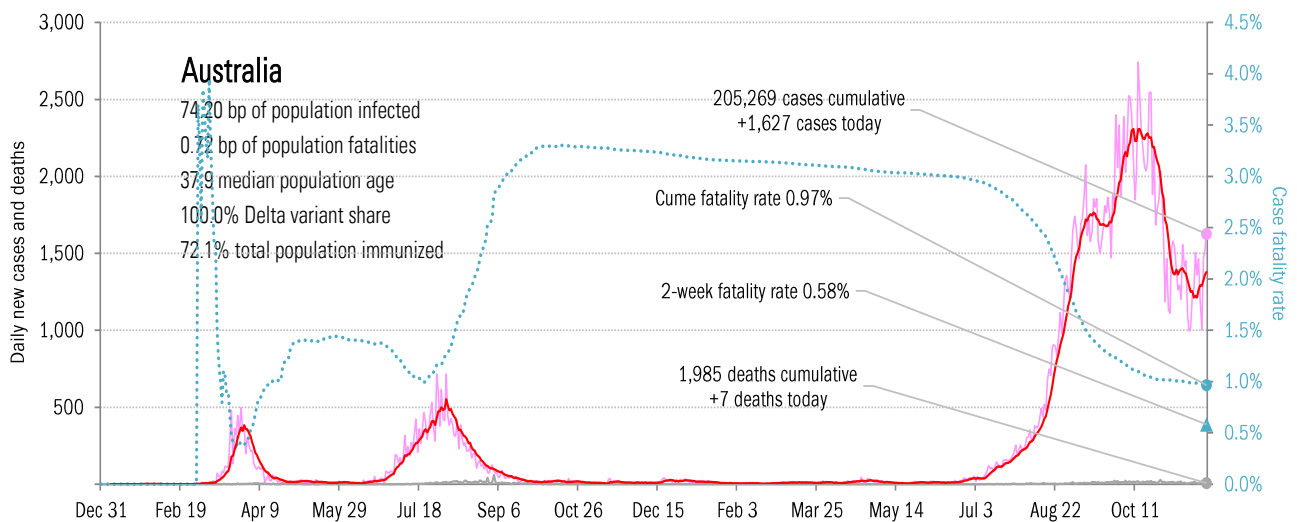
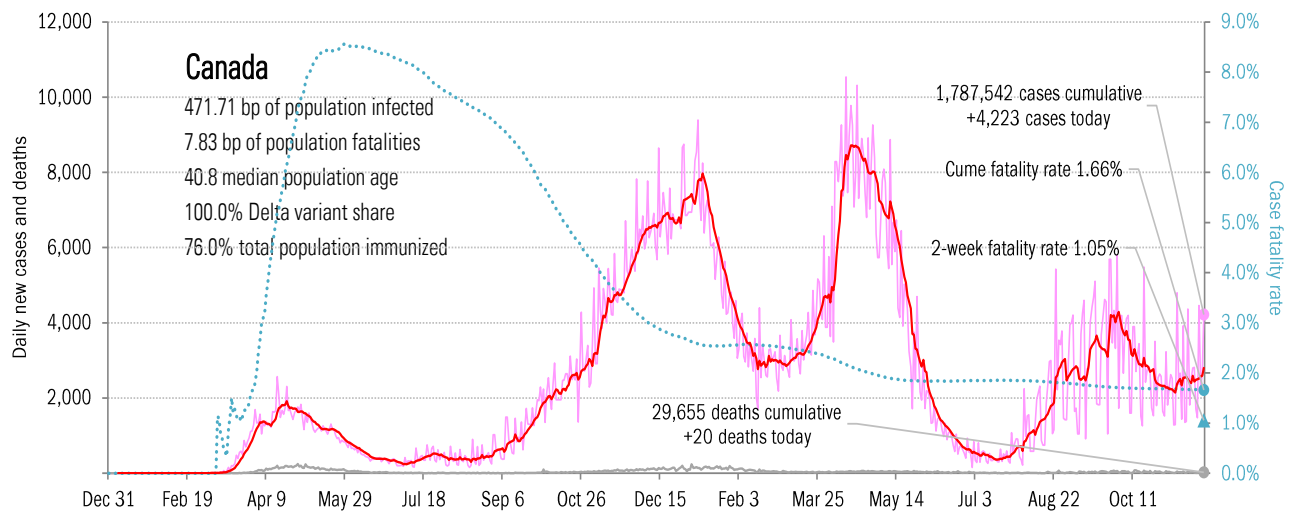
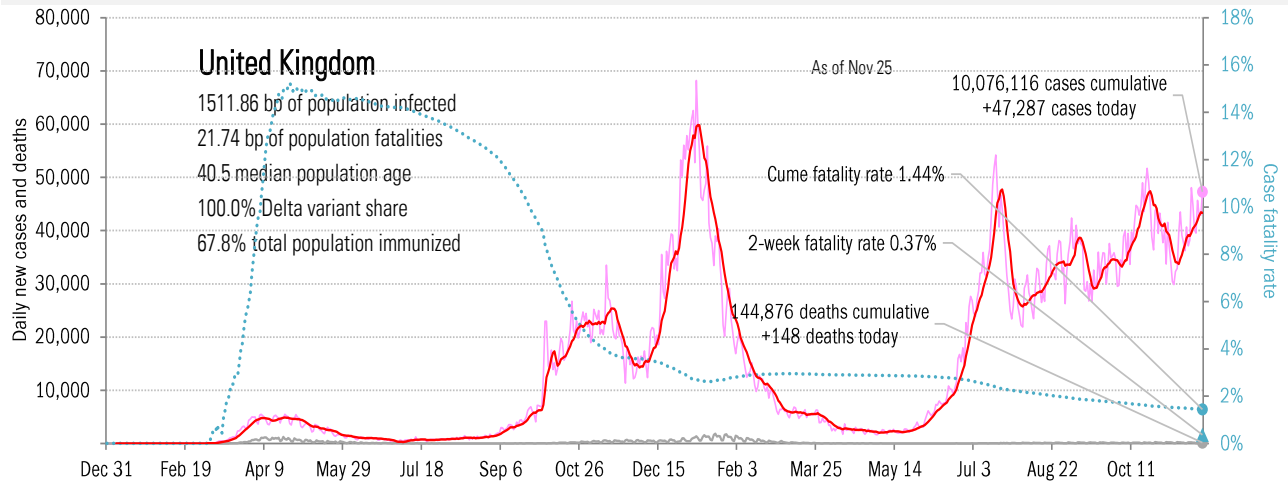
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

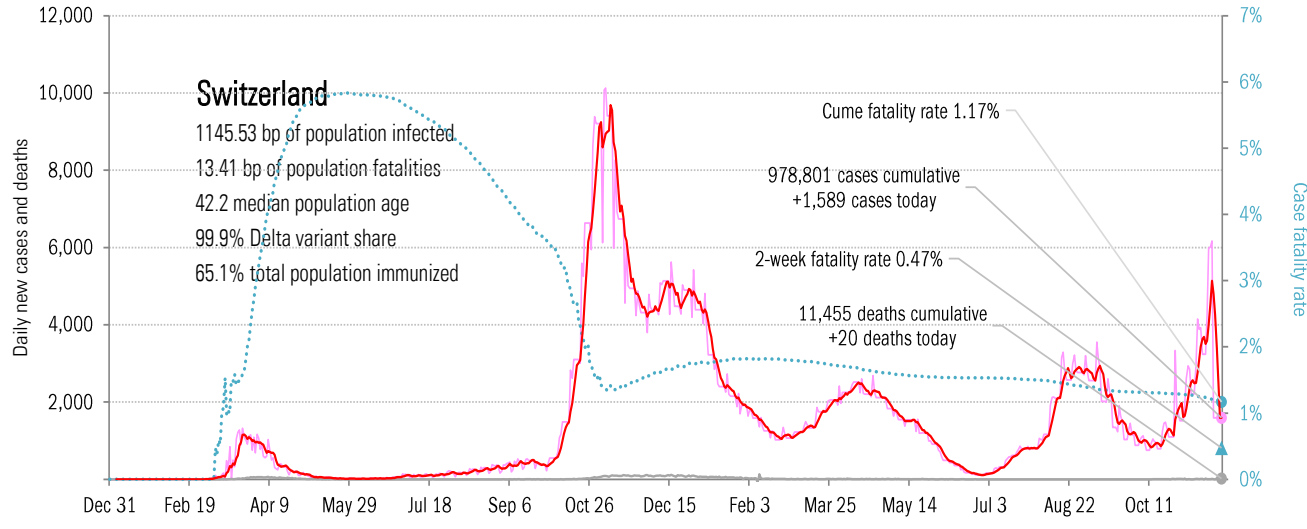
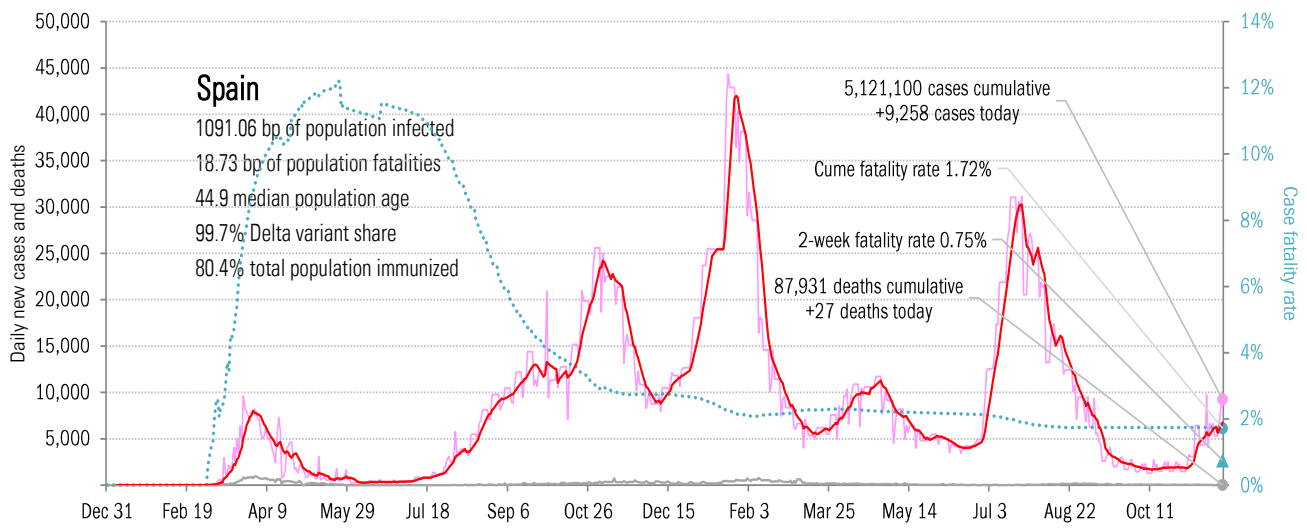
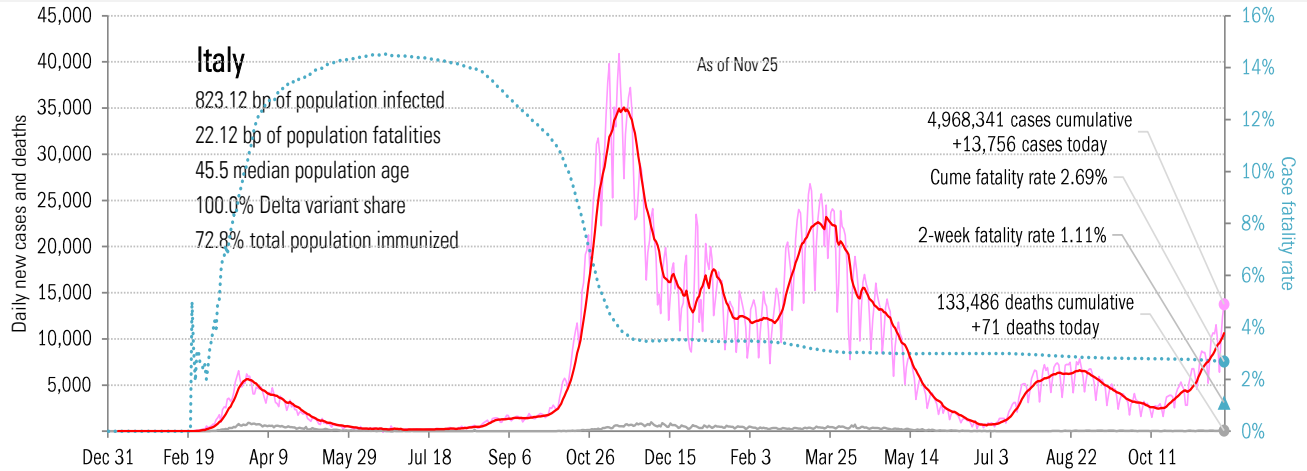


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

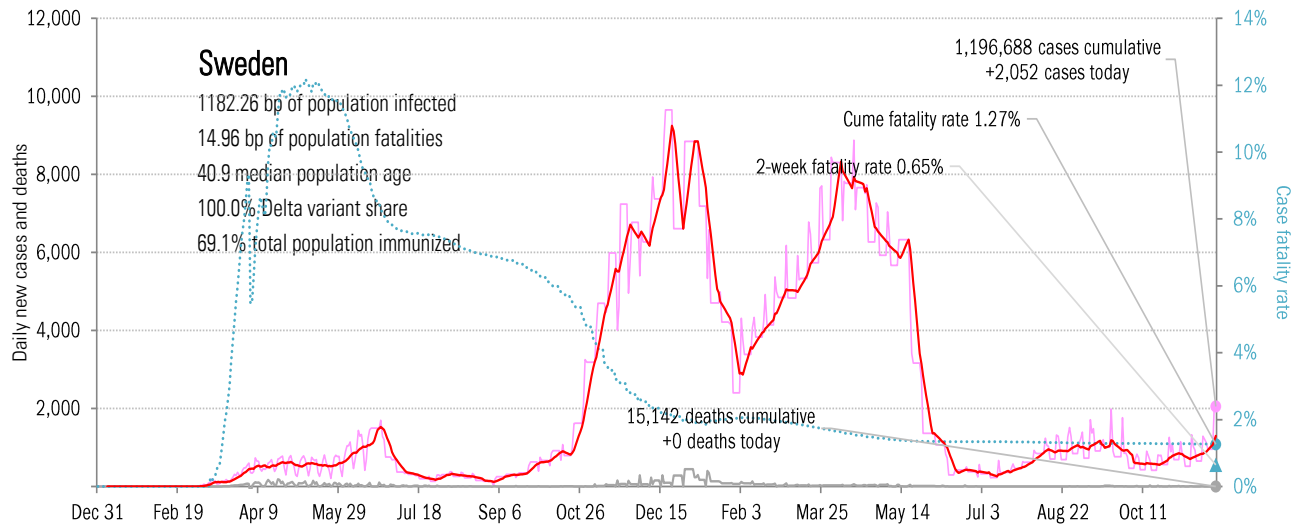
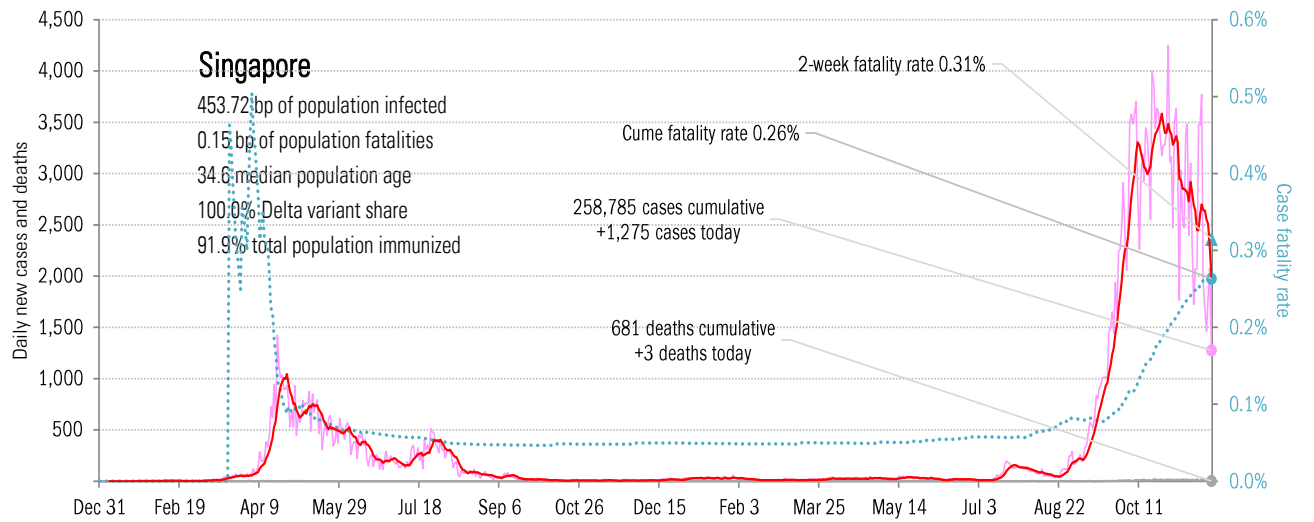
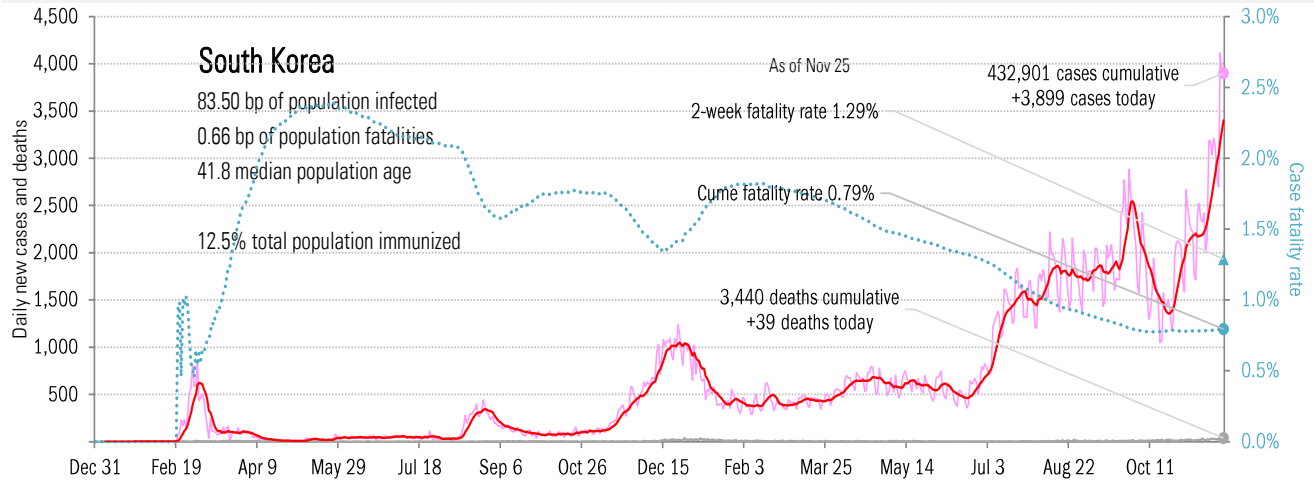
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

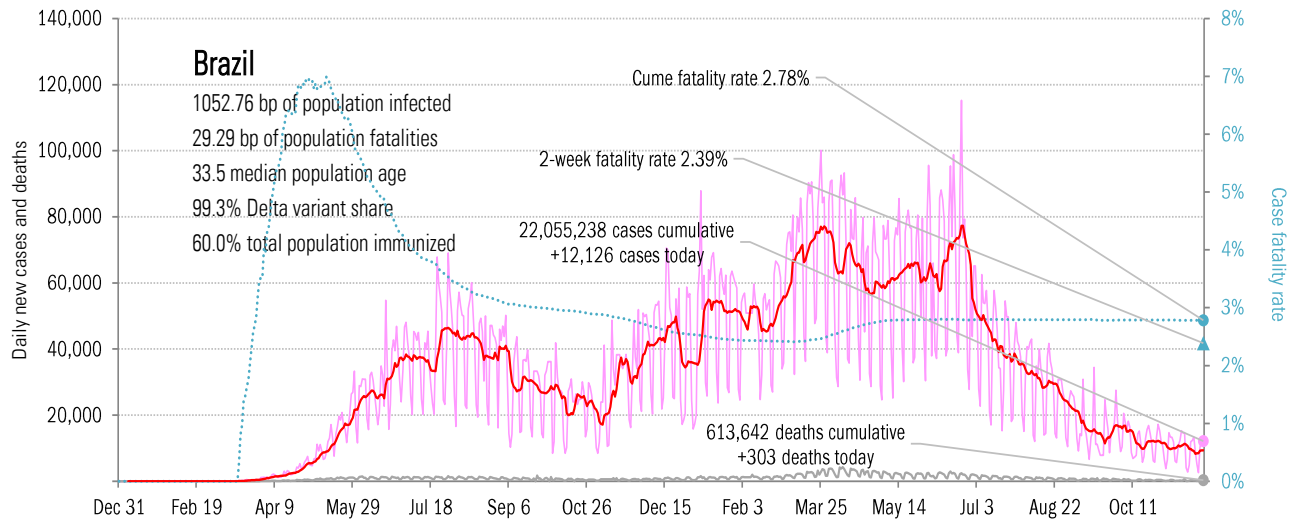
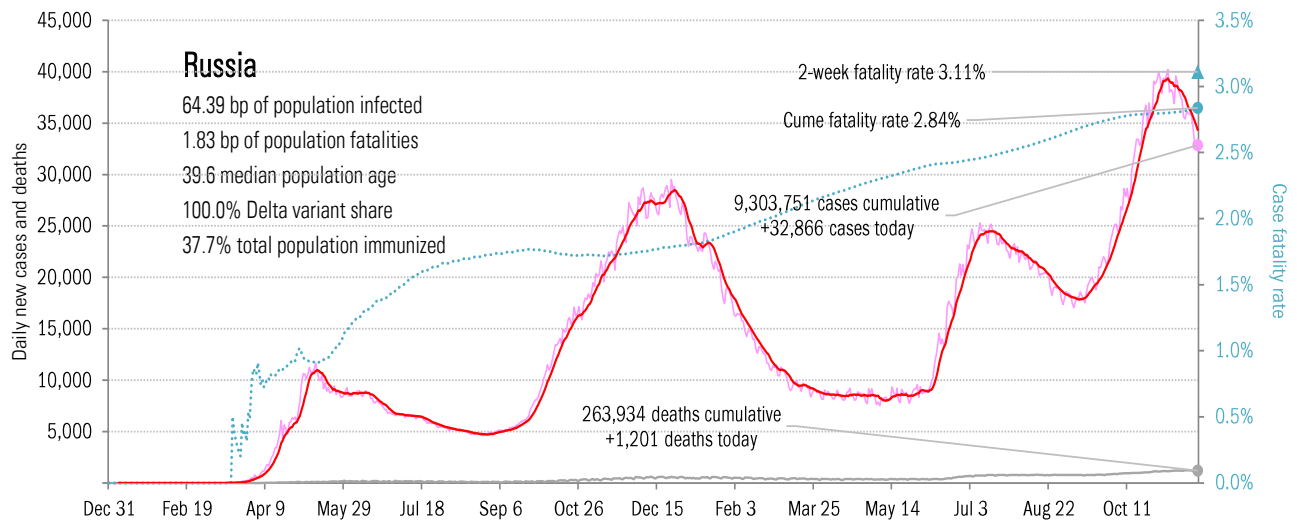
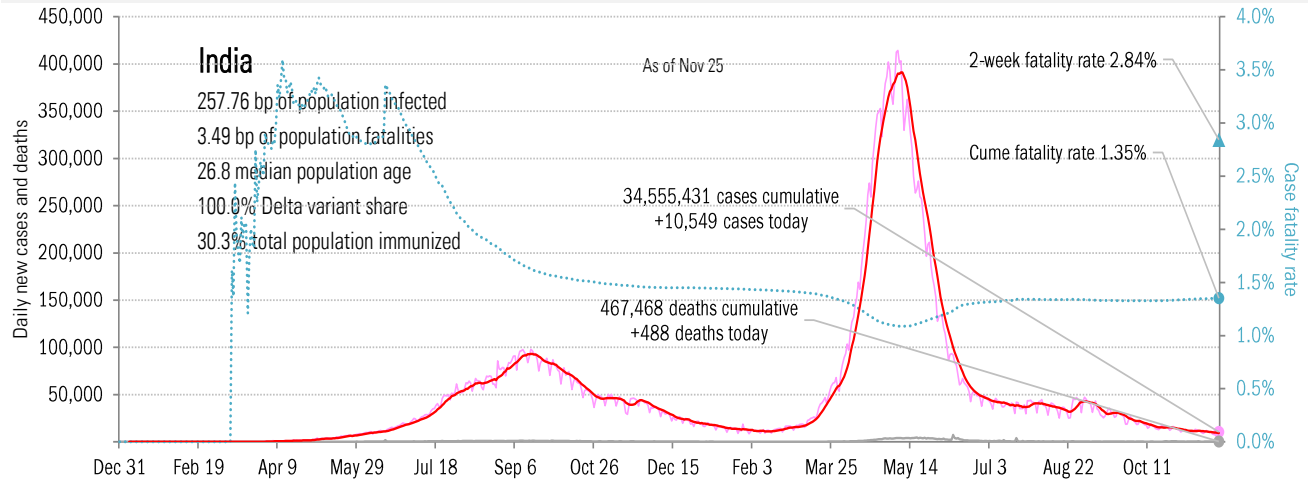
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

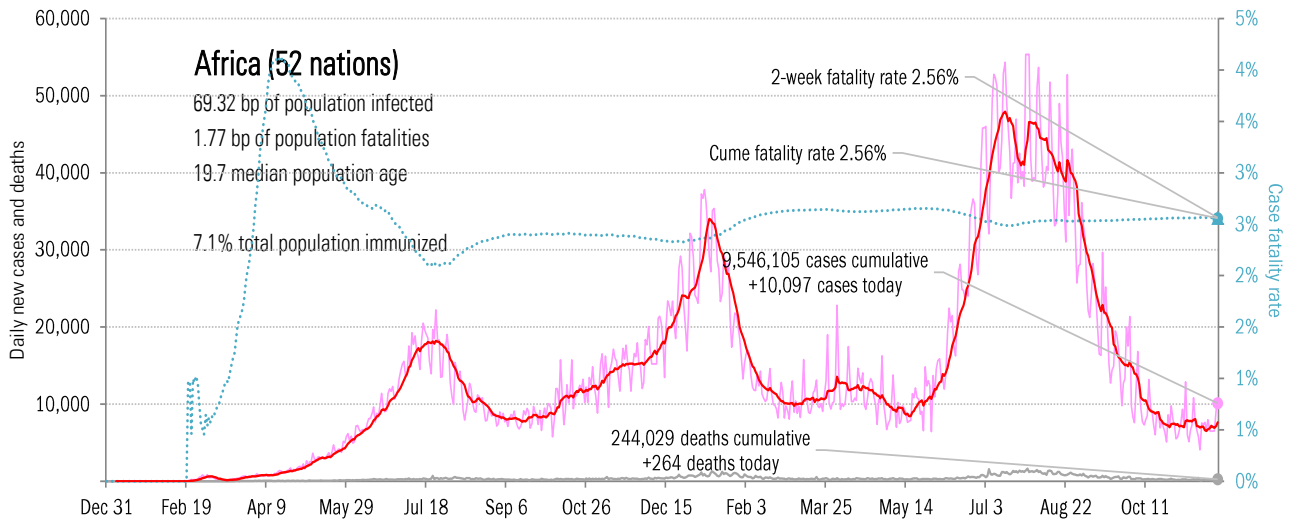
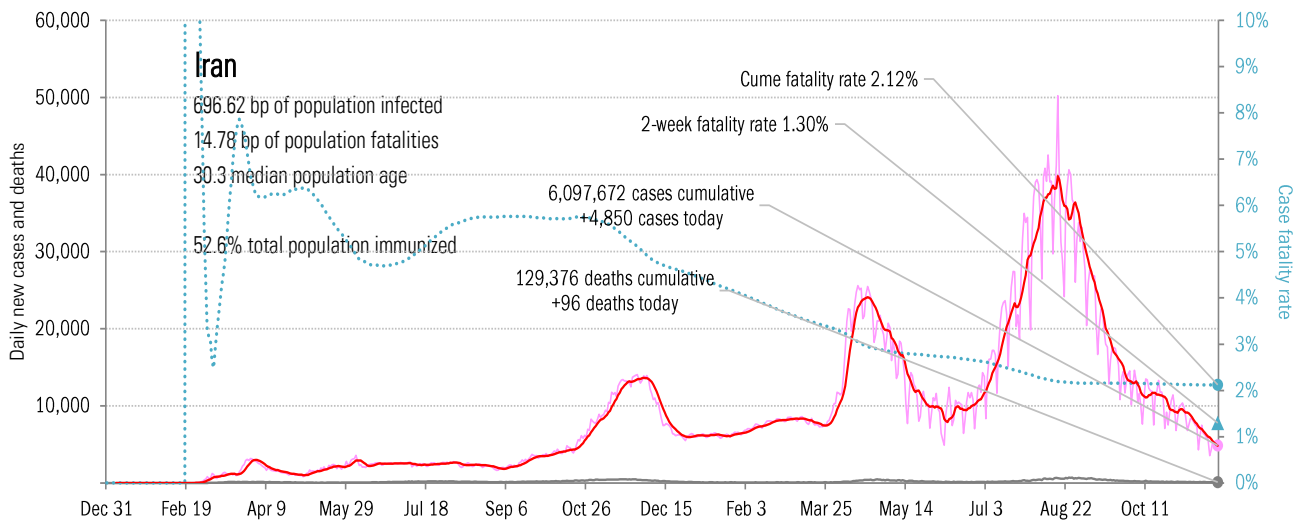
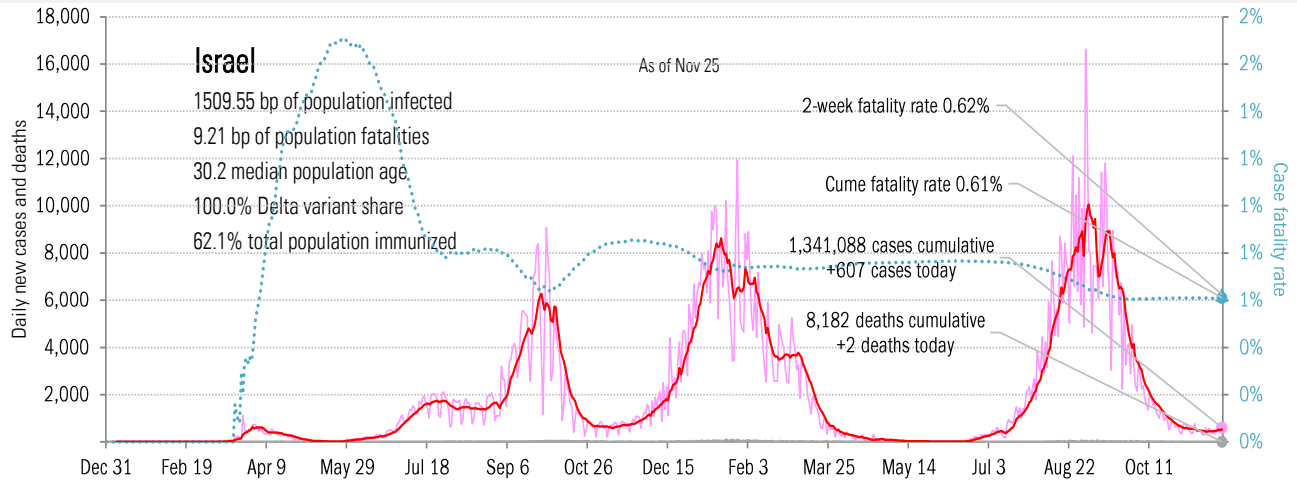
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

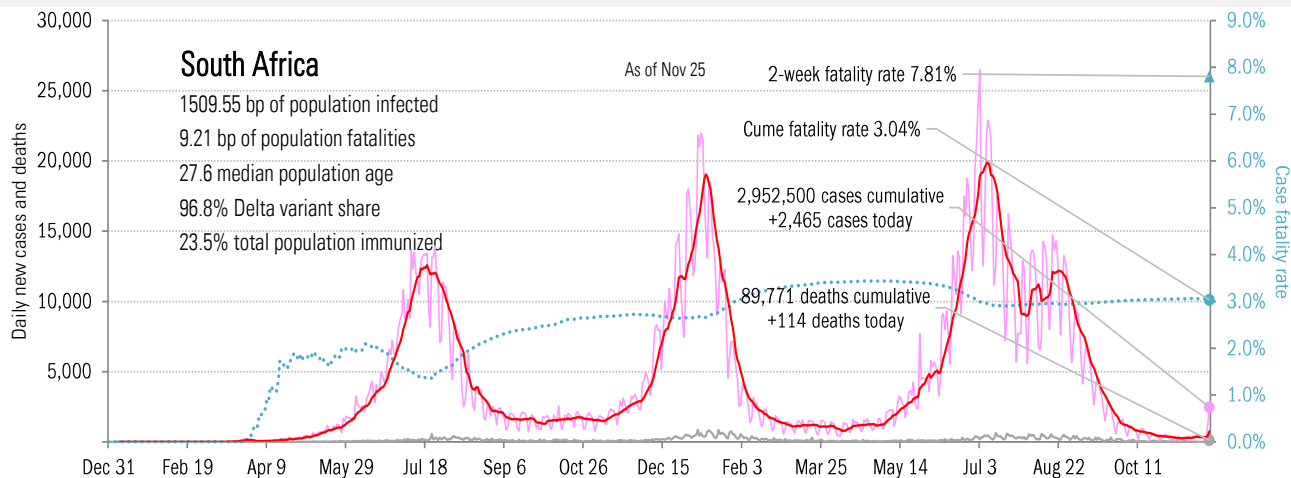
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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