

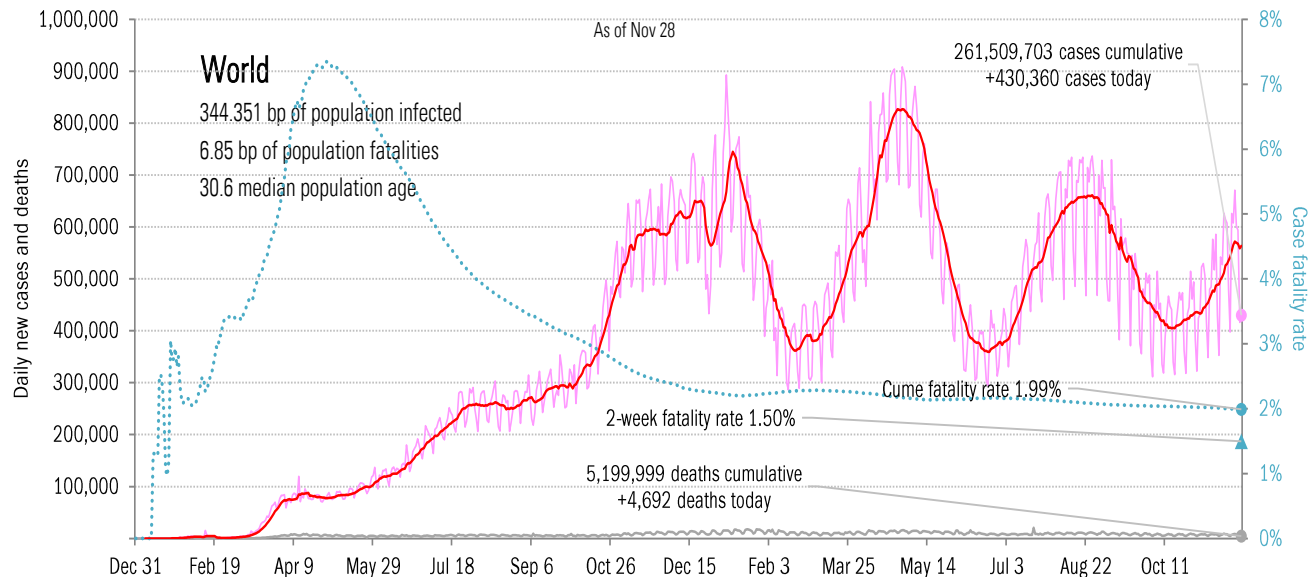
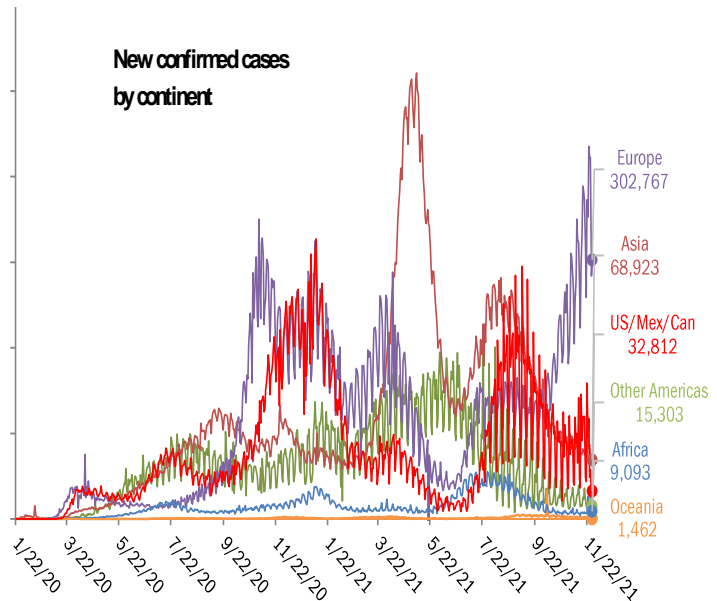
## Data Insights: Covid-2019 Monitor

Monday, November 29, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
France	+68,872	Russia	+1,190
United Kingdom	+36,591	Ukraine	+434
Russia	+32,786	Mexico	+245
United States	+28,131	India	+236
Germany	+23,325	Turkey	+213
Netherlands	+22,172	Vietnam	+190
Czechia	+22,106	Czechia	+185
Turkey	+21,655	Philippines	+156
Poland	+20,574	United States	+112
Vietnam	+12,936	Romania	+106
<b>+289,148</b>		<b>+3,067</b>	
World +430,360		World +4,692	
Top ten 67%		Top ten 65%	



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

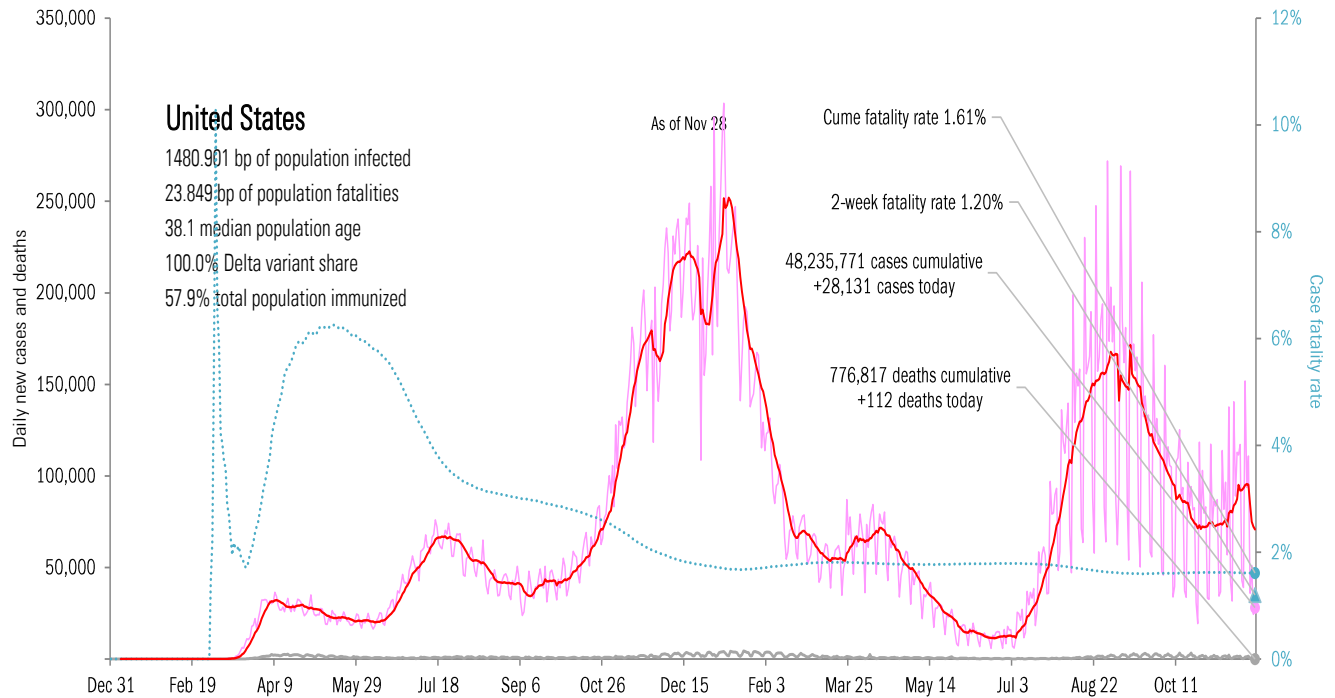
## The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
NY	+4,828		PA	+32		GA	+112		CA	5,061,240		CA	74,159		TX	383,313		RI	89%	NM	90%
CH	+4,245		NY	+27		CH	+98		TX	4,321,134		TX	73,605		FL	323,274		MA	83%	RI	87%
PA	+4,159		NE	+14		PA	+92		FL	3,728,064		FL	61,325		CA	319,954		PA	82%	MI	85%
IA	+3,999		FL	+9		IN	+87		NY	2,715,335		NY	57,428		NY	171,887		MI	81%	AL	85%
NE	+2,538		MD	+8		NY	+81		IL	1,784,900		PA	33,283		GA	163,162		CT	80%	VT	85%
AZ	+2,274		CA	+7		KY	+60		PA	1,725,902		GA	30,358		CH	134,300		MD	79%	NH	84%
CA	+1,958		AZ	+5		IL	+58		CH	1,677,741		IL	28,746		PA	126,072		WA	79%	KY	83%
NJ	+1,869		NJ	+4		WI	+55		GA	1,659,491		NJ	28,339		KY	114,296		GA	79%	DE	83%
MD	+838		HI	+3		IA	+35		NC	1,524,078		CH	26,483		IL	110,264		NV	78%	MN	83%
AR	+374		MO	+1		MA	+34		MI	1,447,230		MI	25,244		MI	102,385		NH	78%	NE	82%
<b>+27,082</b>			<b>+110</b>			<b>+712</b>			<b>25,645,115</b>			<b>438,970</b>			<b>1,948,907</b>						
All states	+28,131			+112			+654		All states	48,235,771			776,817			3,502,128		All states	70%		67%
Top ten	96%			98%			109%		Top ten	53%			57%			56%		Median	71%		75%

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	FL	-159	TX	-235	AL	+20 bp
MD	-1,965	AZ	-42	MI	-142	NC	+20 bp
AZ	-1,381	NY	-31	AR	-29	SD	+20 bp
PA	-984	MD	-22	NM	-24	IL	+20 bp
MO	-487	CA	-16	KS	-23	MS	+10 bp

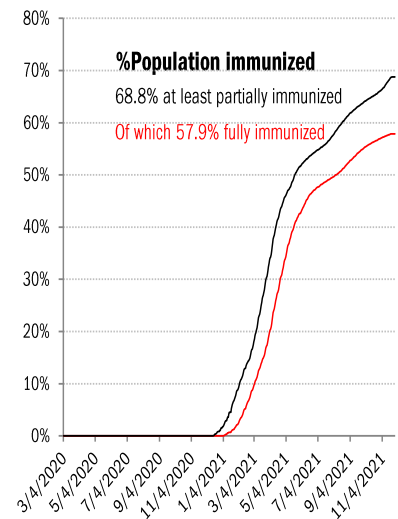
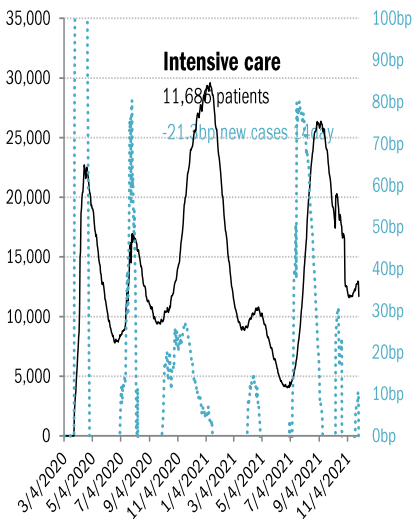
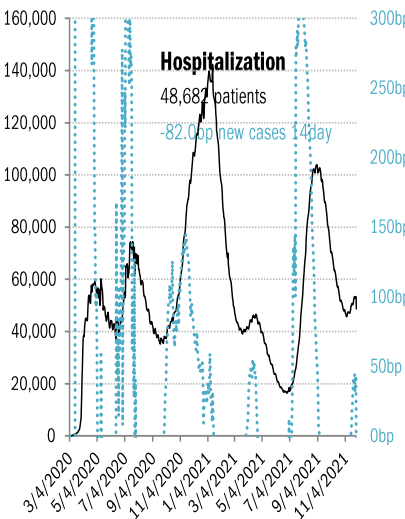
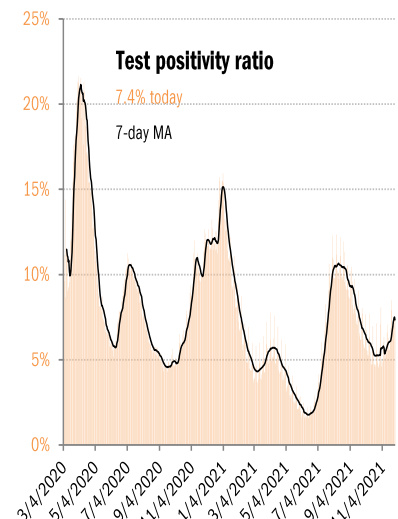
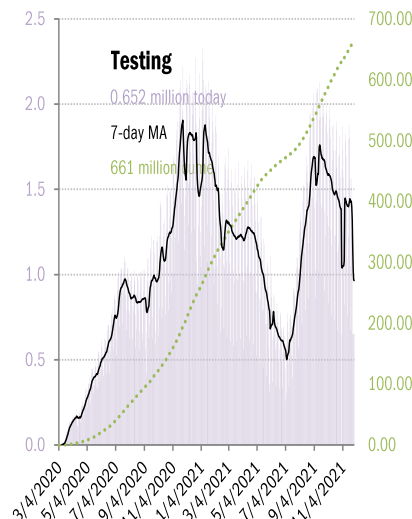
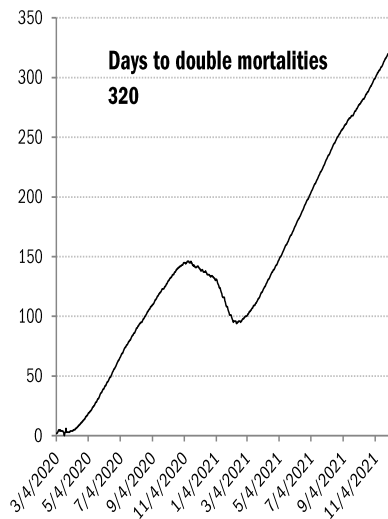
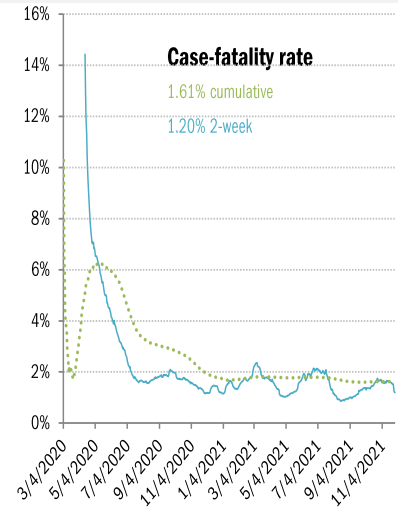
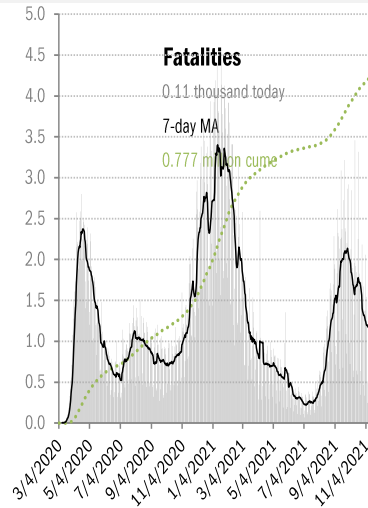
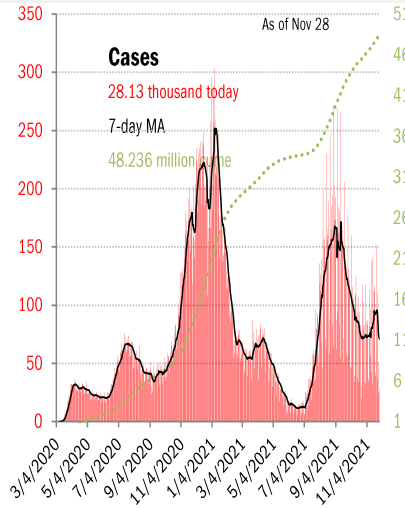


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations



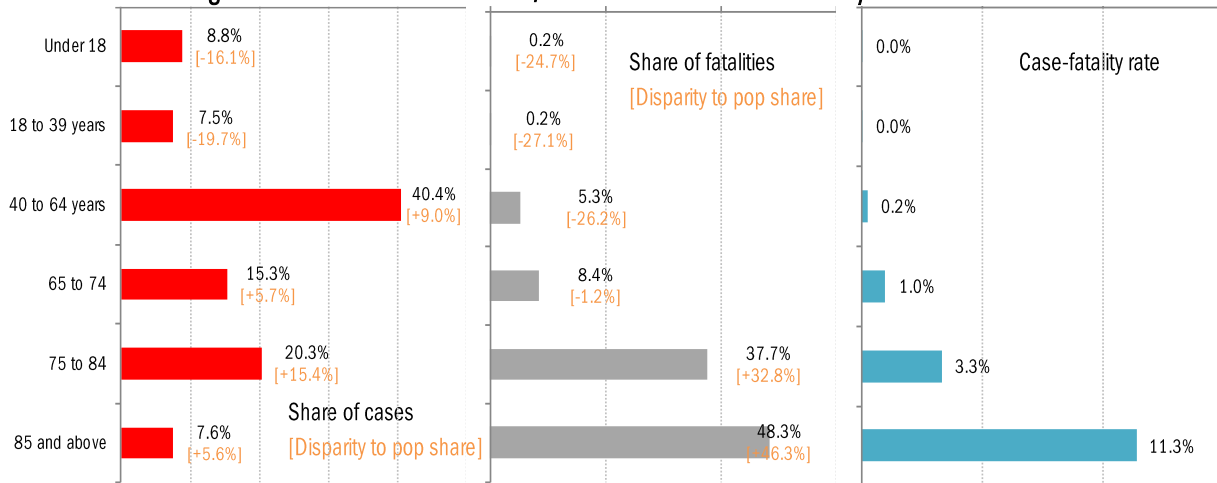
# US deep-dive

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

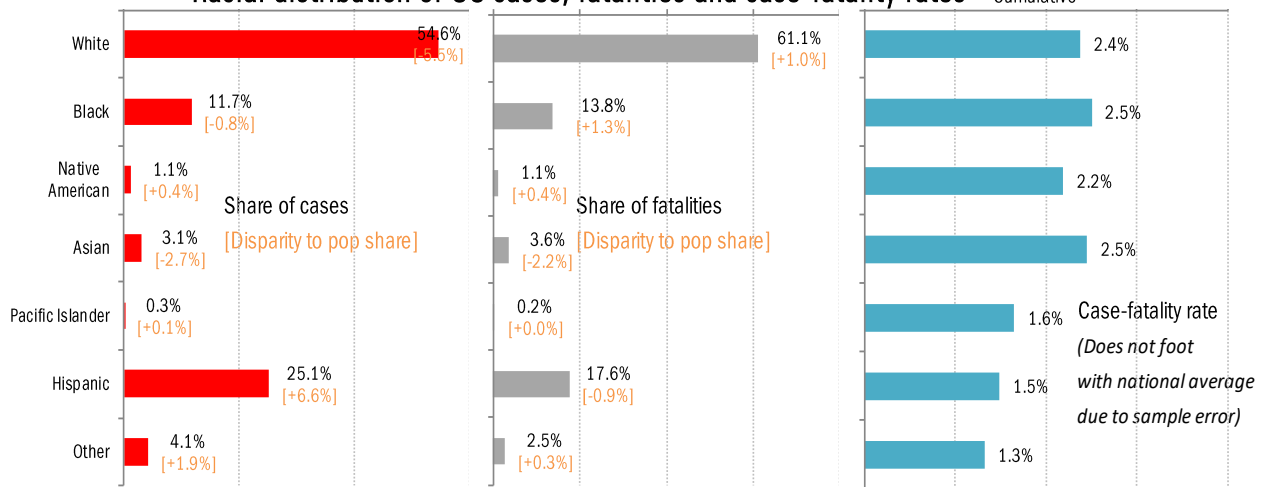


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

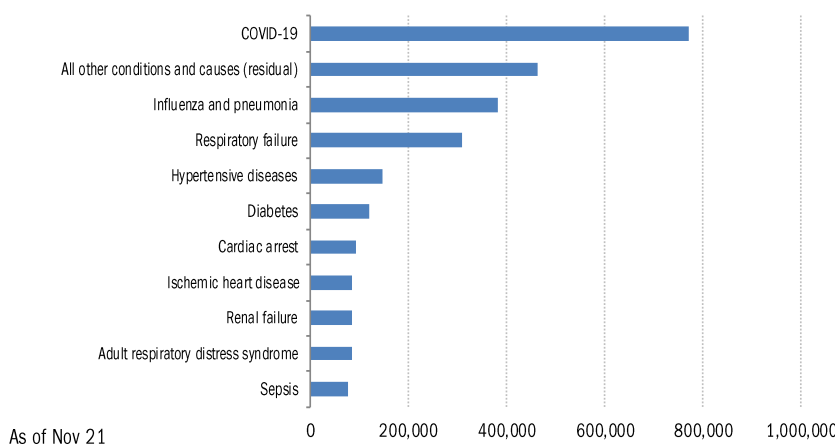


Racial distribution of US cases, fatalities and case-fatality rates



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 Vaccines Stop Omicron? Scientists Are Racing to Find Out.](#)

Apoorva Mandavilli  
*New York Times*  
November 28, 2021

### [Is This a 'Normal' Covid Winter?](#)

Holman W. Jenkins, Jr.  
*Wall Street Journal*  
November 26, 2021

### [School Closures Aren't Just for Covid Anymore](#)

Leslie Bienen  
*Wall Street Journal*  
November 28, 2021

### [How SARS-CoV-2 in American deer could alter the course of the global pandemic](#)

Michaela Doucleff  
*NPR*  
November 10, 2021

### [WHO Urges Caution as South Africa Calls Omicron 'Mild'](#)

Loni Prinsloo  
*Bloomberg*  
November 28, 2021

### [Moderna says updated vaccine for Omicron could be ready in early 2022](#)

Yacob Reyes  
*Axios*  
November 28, 2021

### [Perspectives: On Coexistence with COVID-19: Estimations and Perspectives](#)

Yuan Zhang et al.  
*China Centers for Disease Control*  
November 24, 2021

### [China Study Says Adopting U.S. Stance Would Trigger Covid Surge](#)

*Bloomberg*  
November 28, 2021

### [Moderna Says New Vaccine for Omicron May Be Ready in Early 2022](#)

Joe Easton  
*Bloomberg*  
November 28, 2021

## Meme of the day

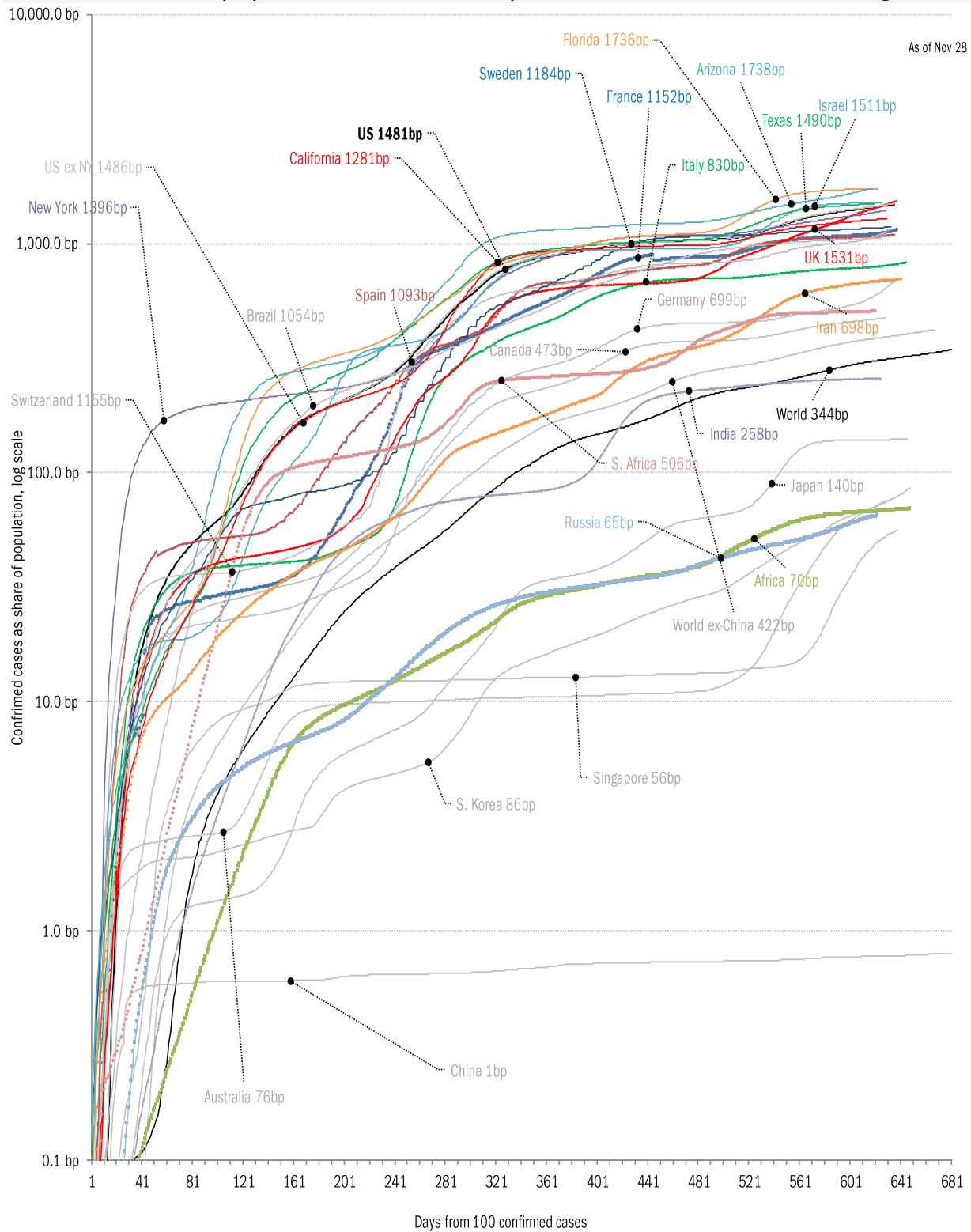
### White Smoke Emanates From Wuhan Lab Chimney Signaling A New Variant Has Been Named

Church Health  
November 28th, 2021 - BabylonBee.com



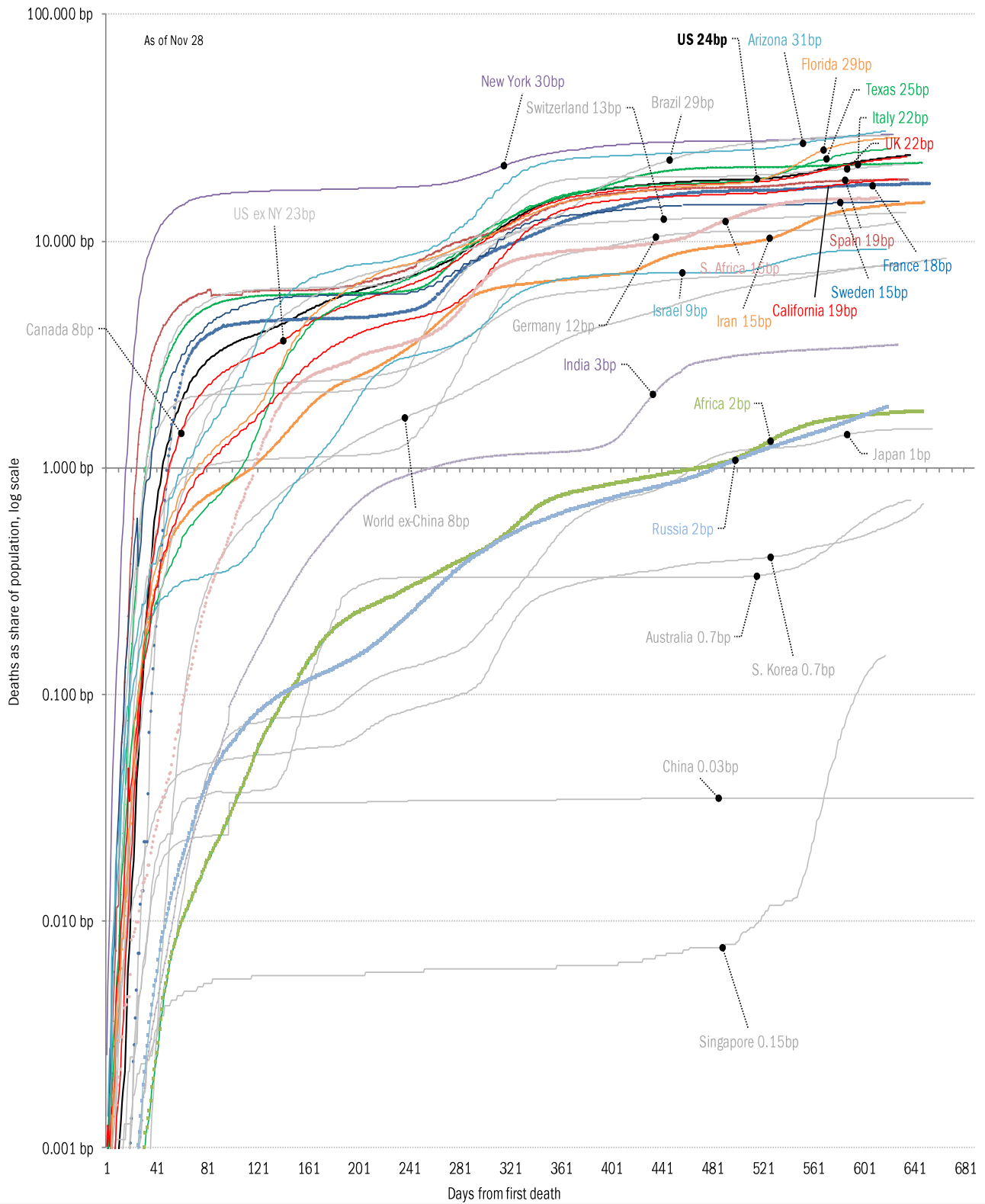
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



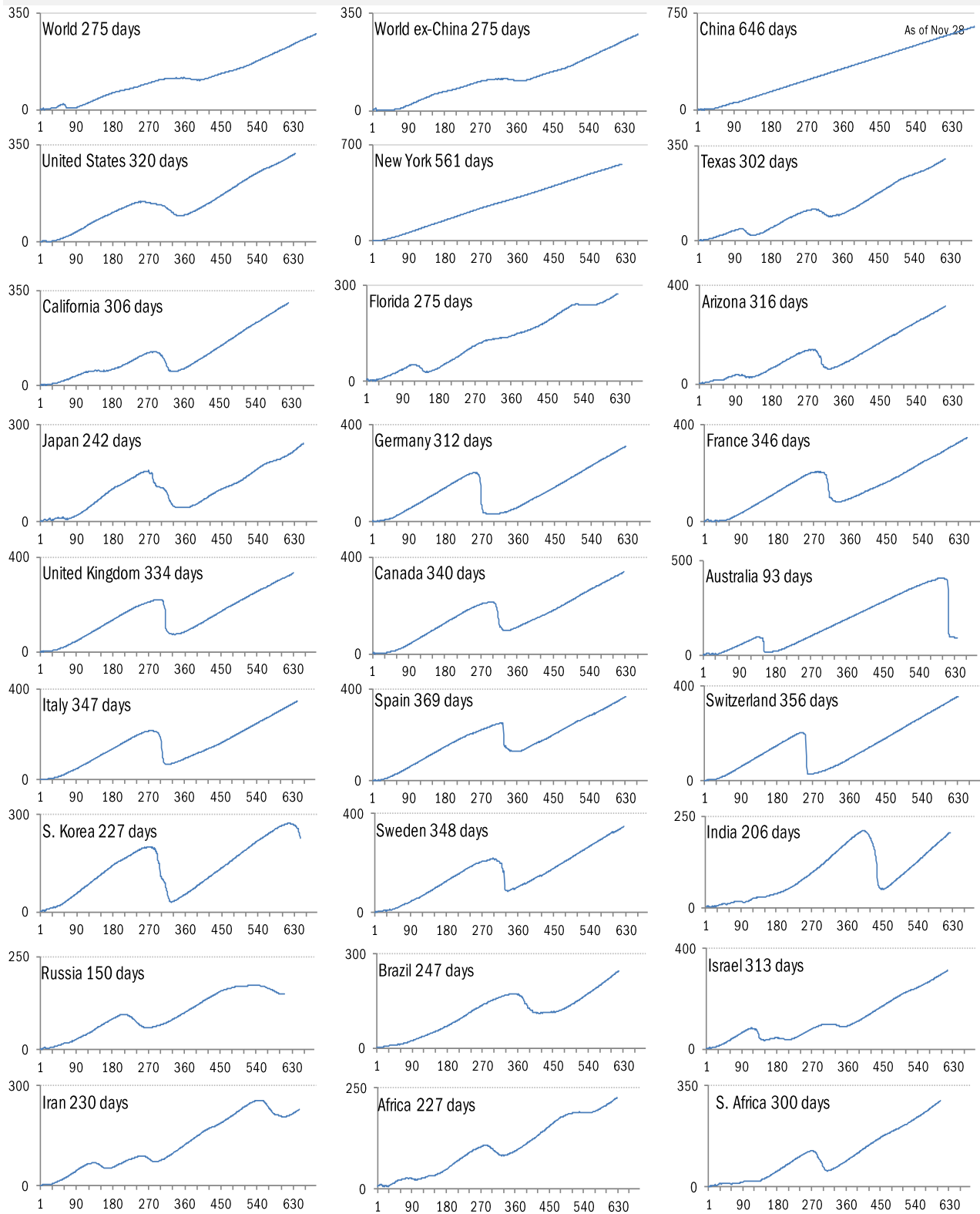
Source: [Johns Hopkins](#), TrendMacro calculations



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

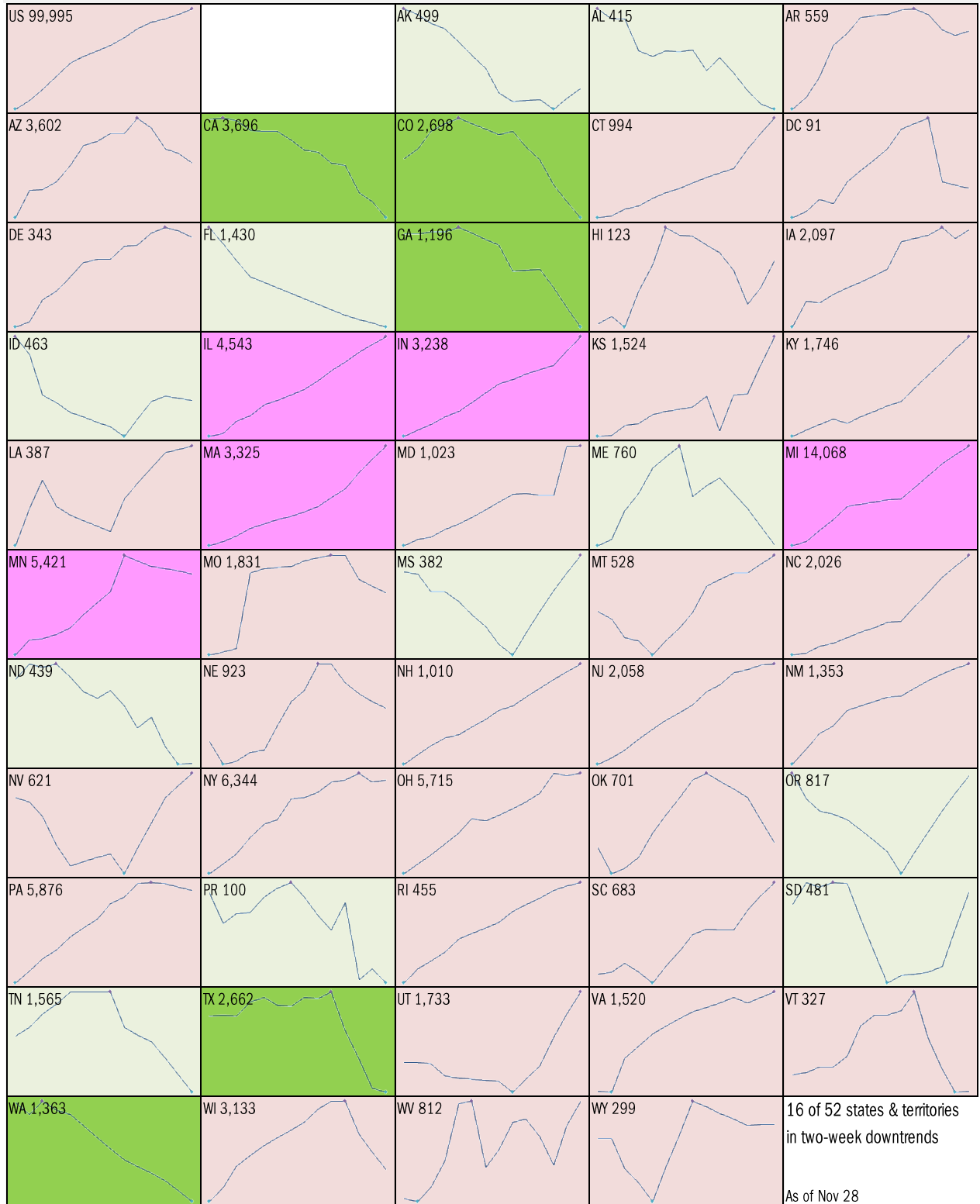
Vertical: days to double deaths Horizontal: days from first death

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

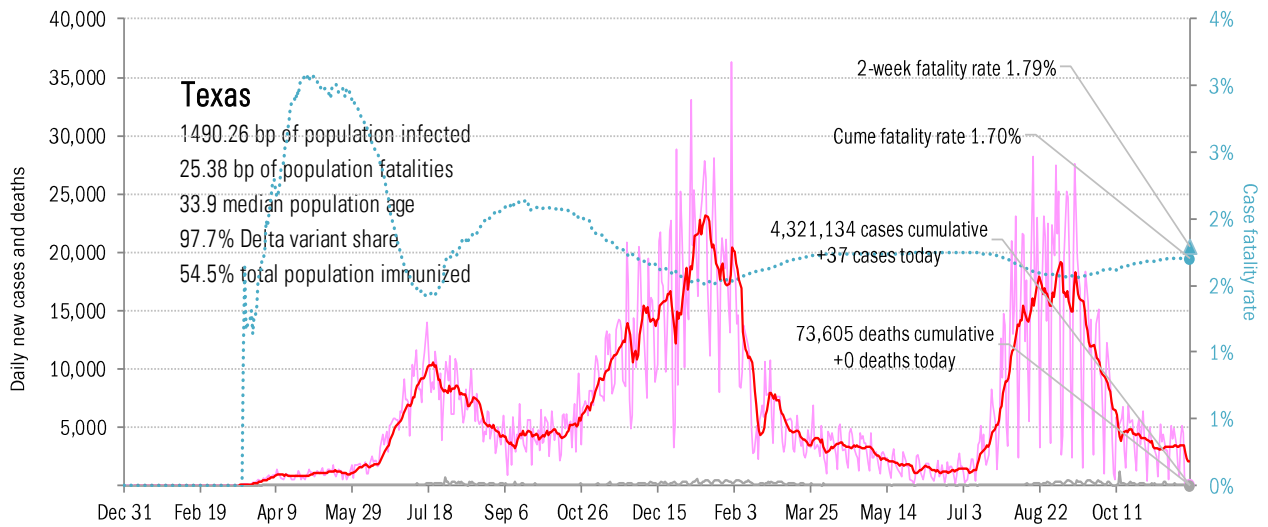
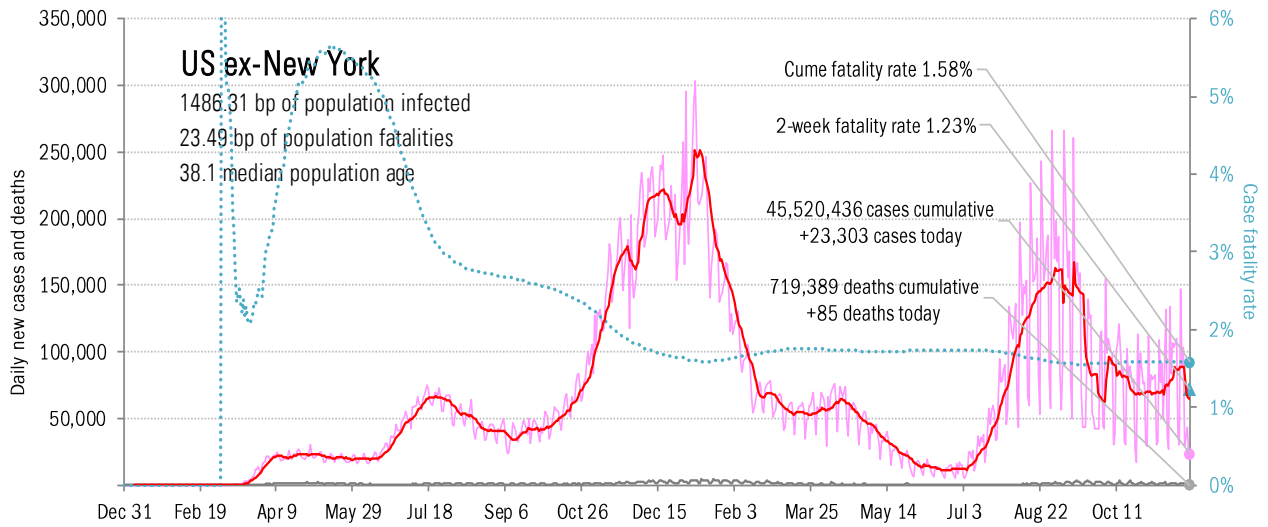
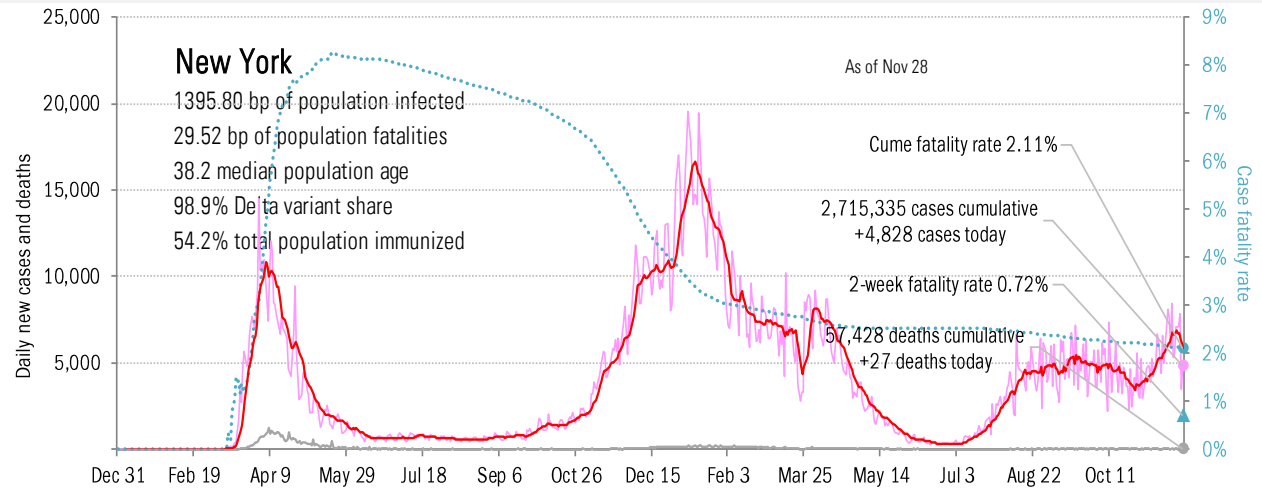
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

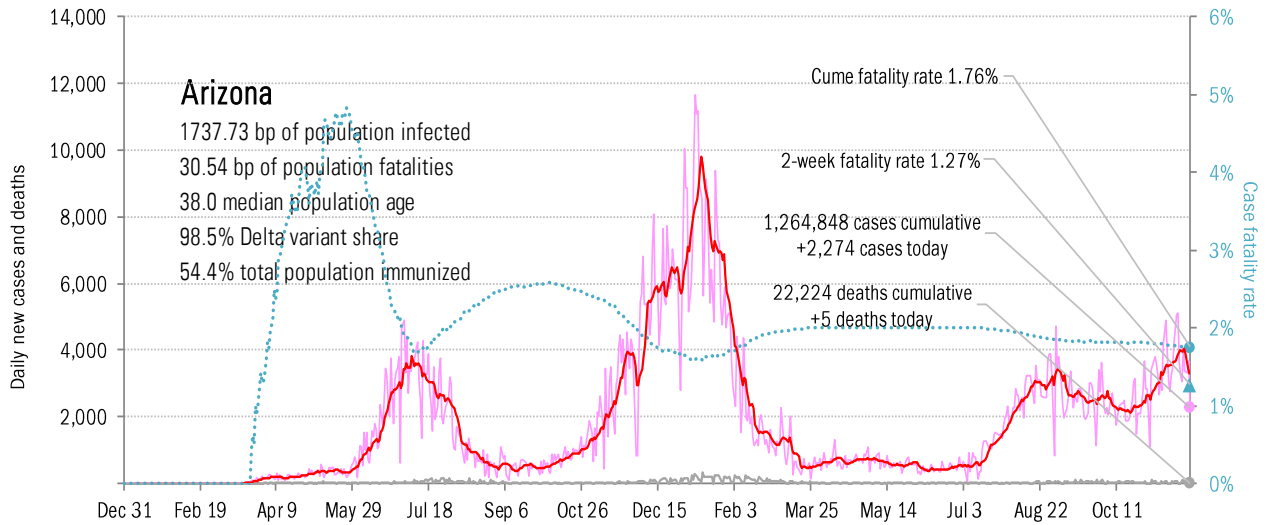
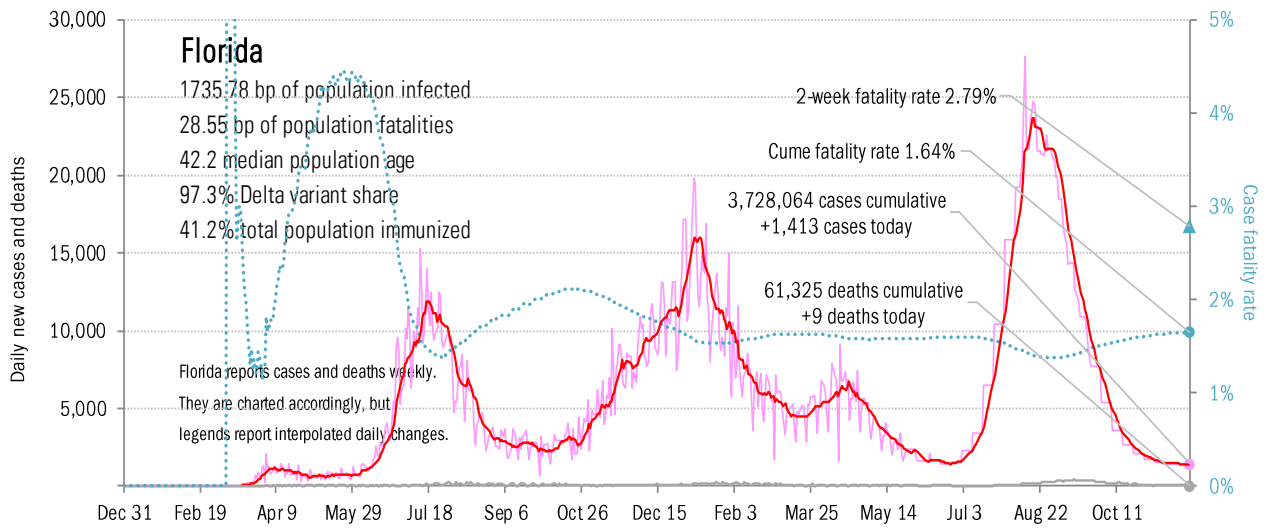
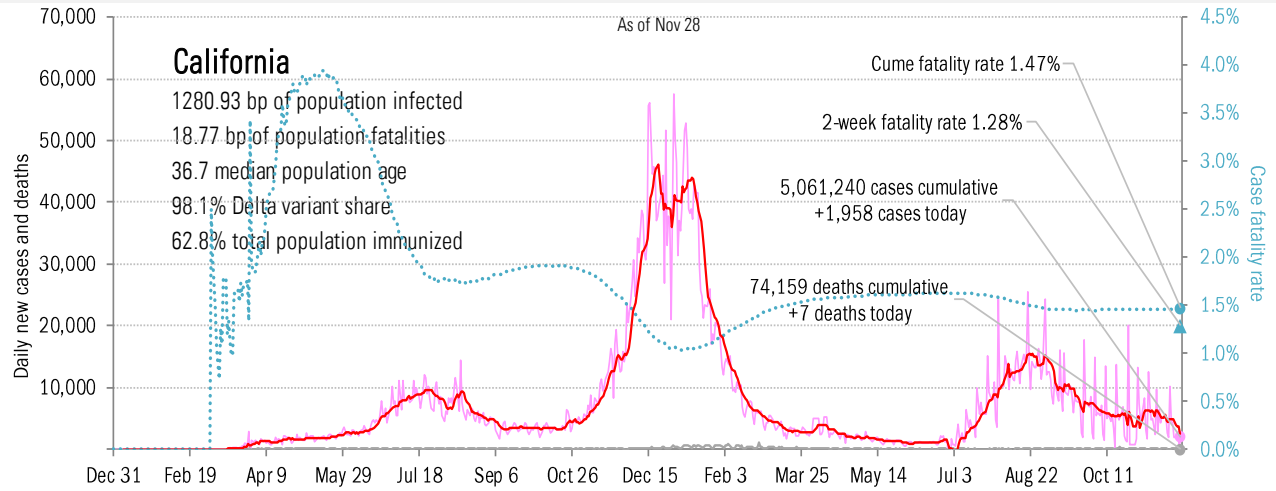
Cases: 7-day average and daily Deaths: Daily



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

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

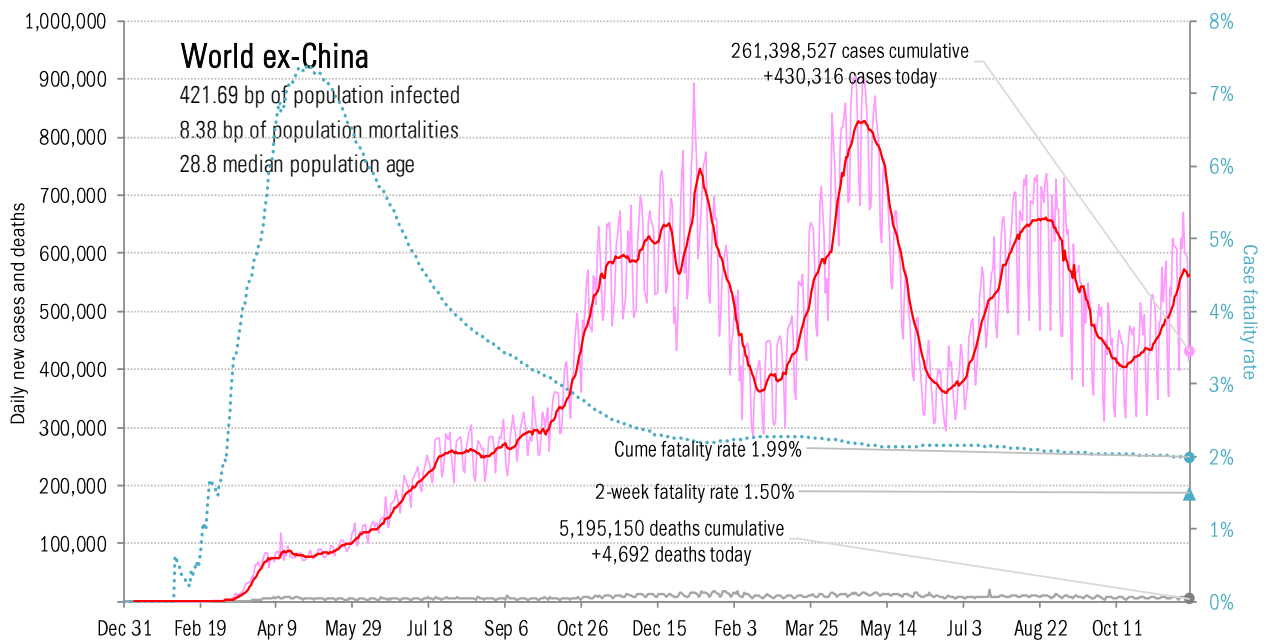
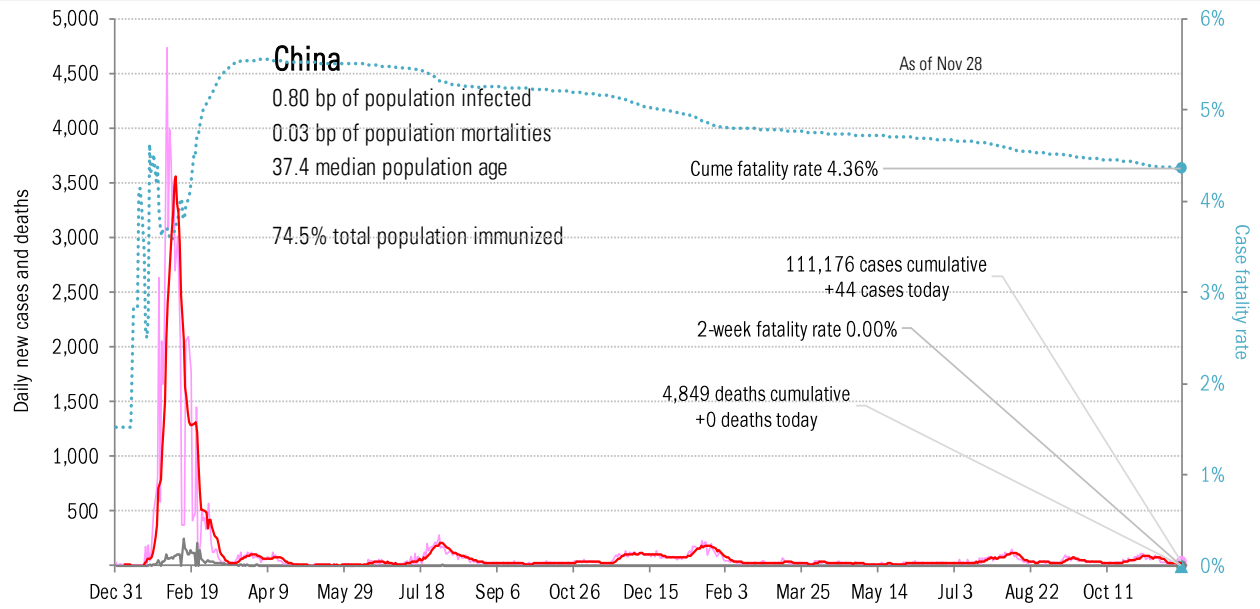
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

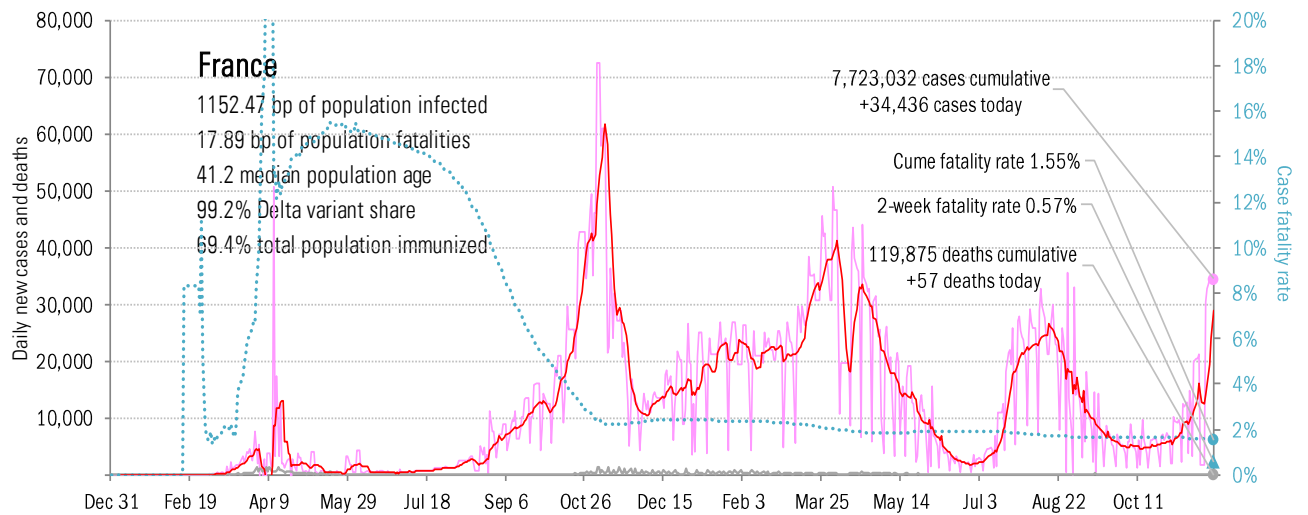
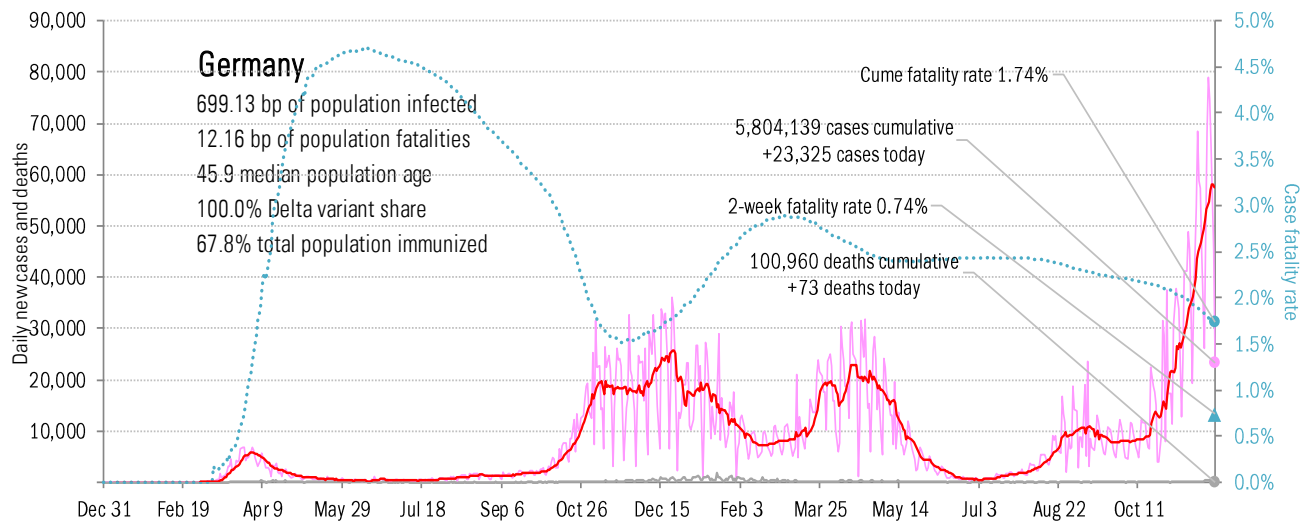
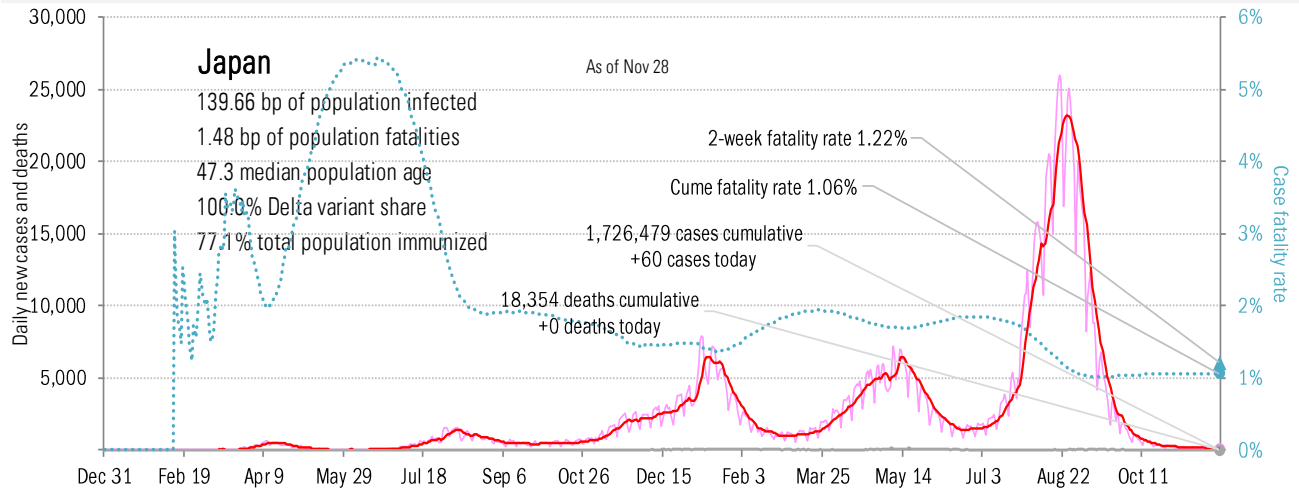
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

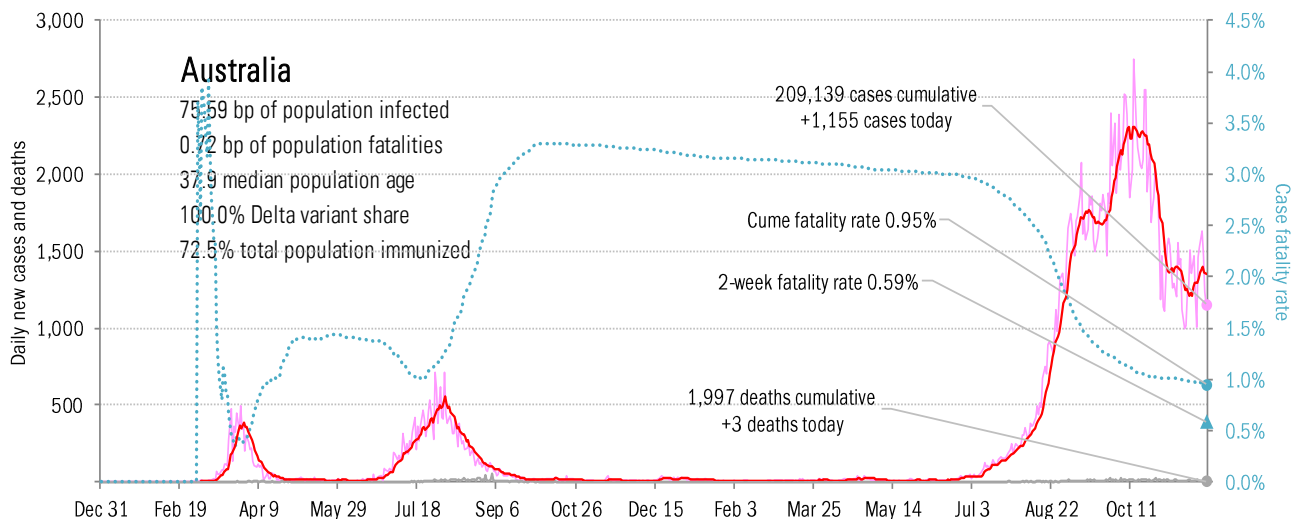
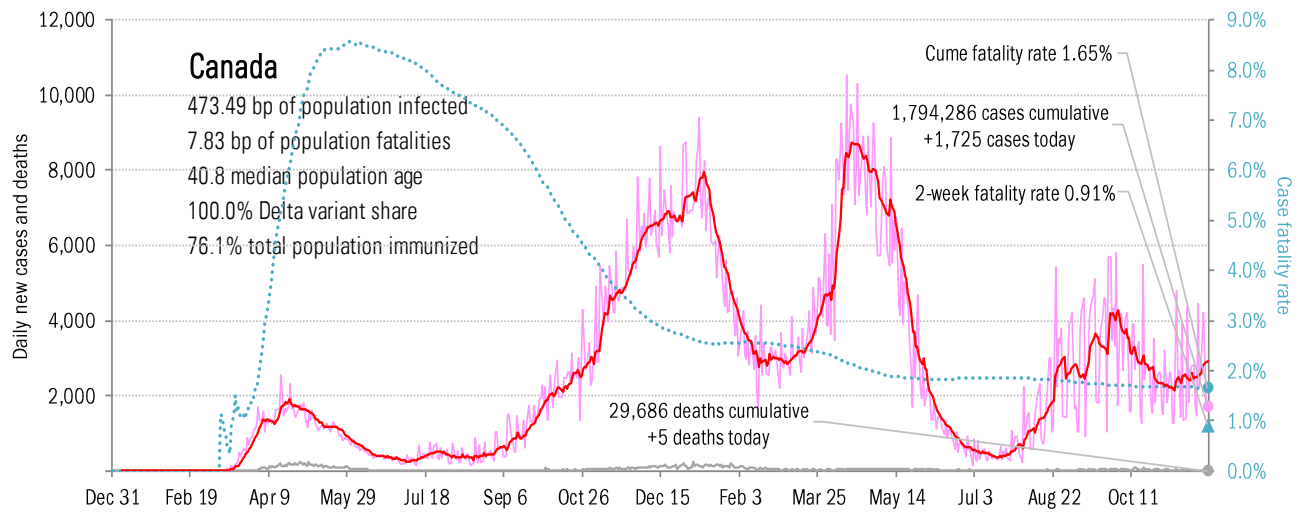
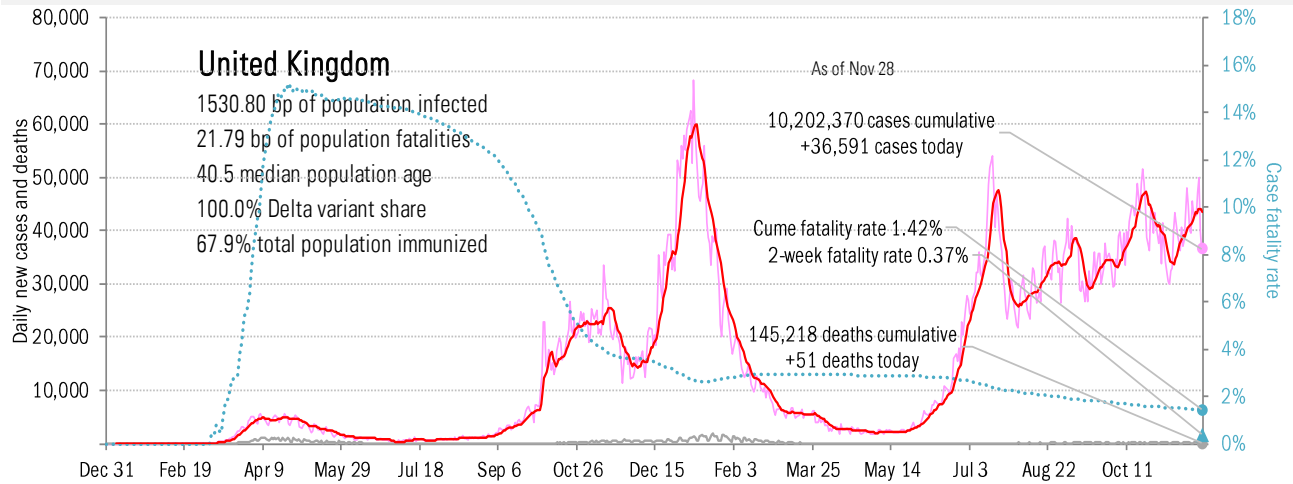
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

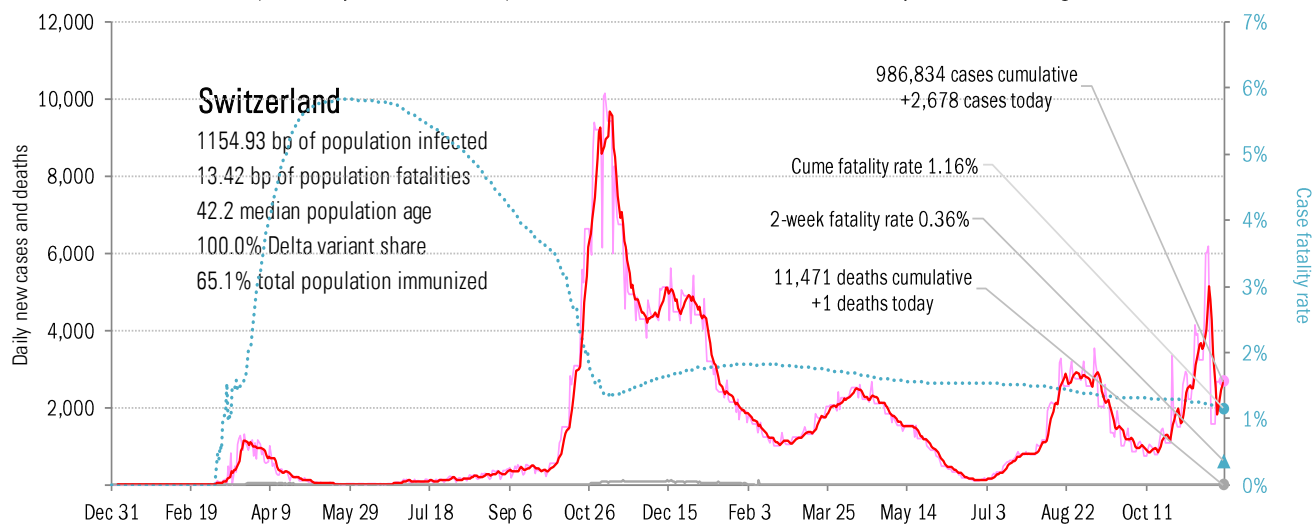
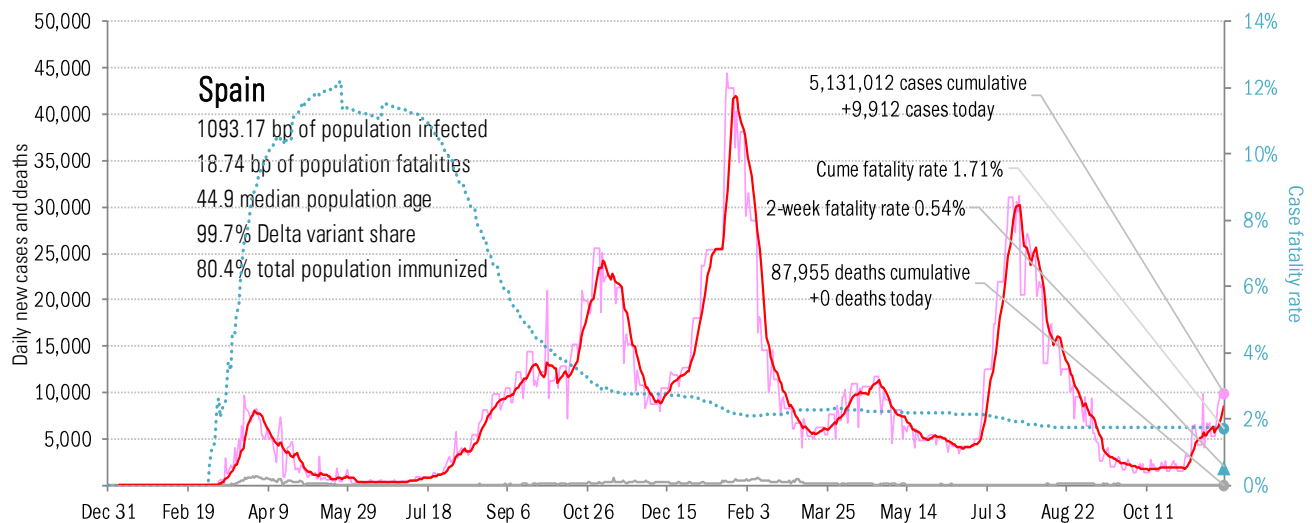
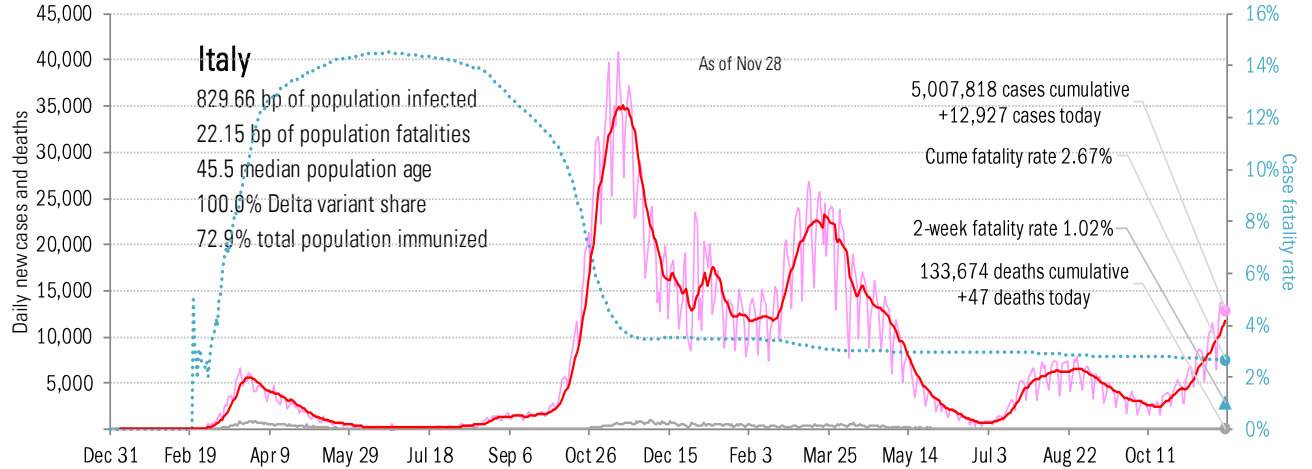


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

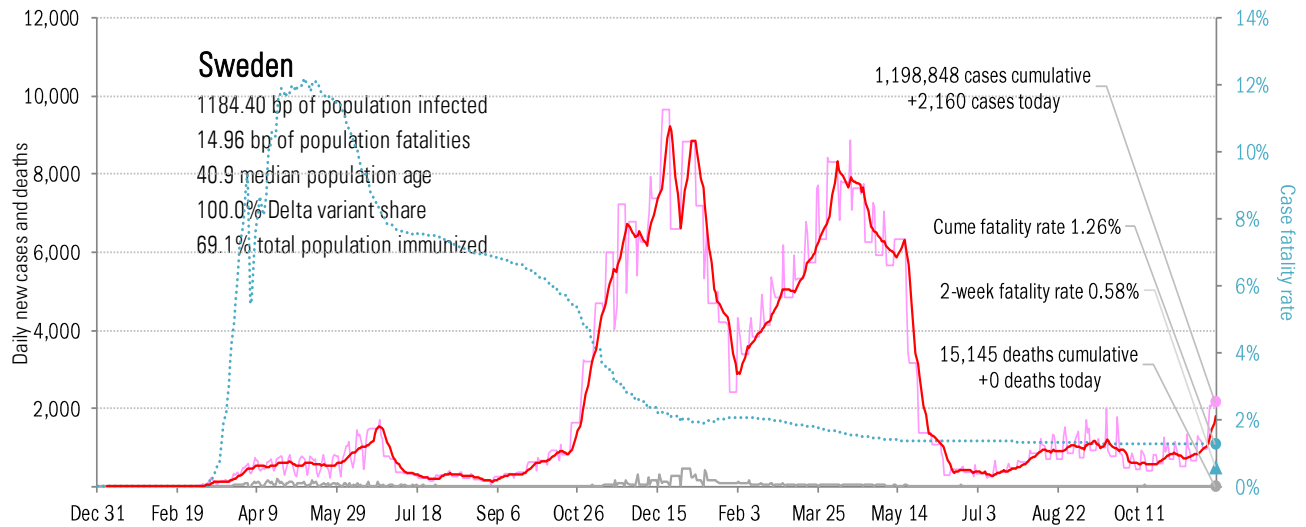
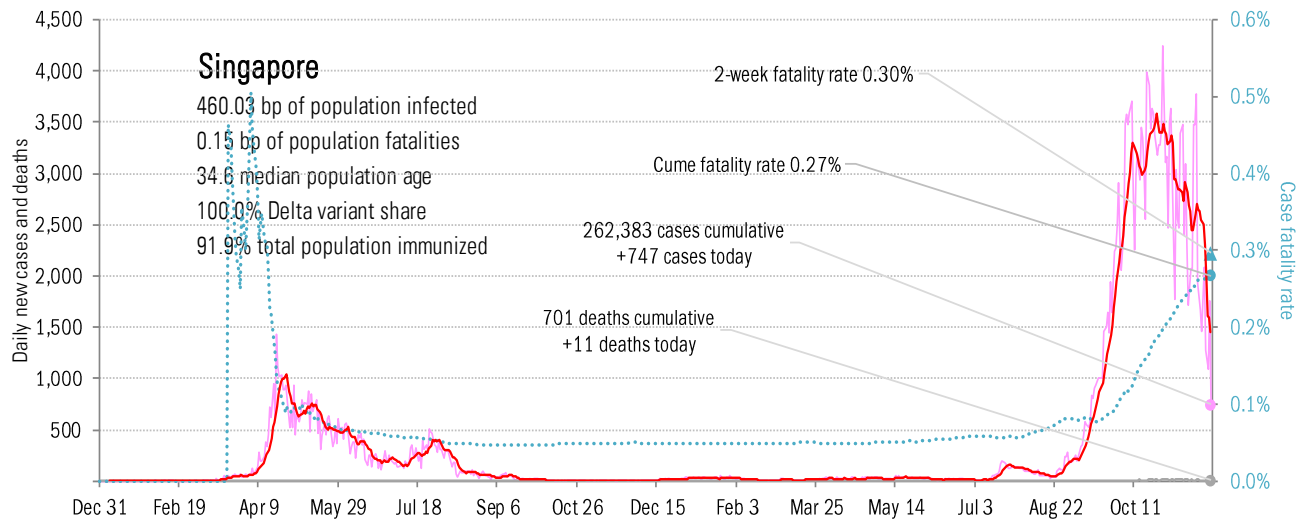
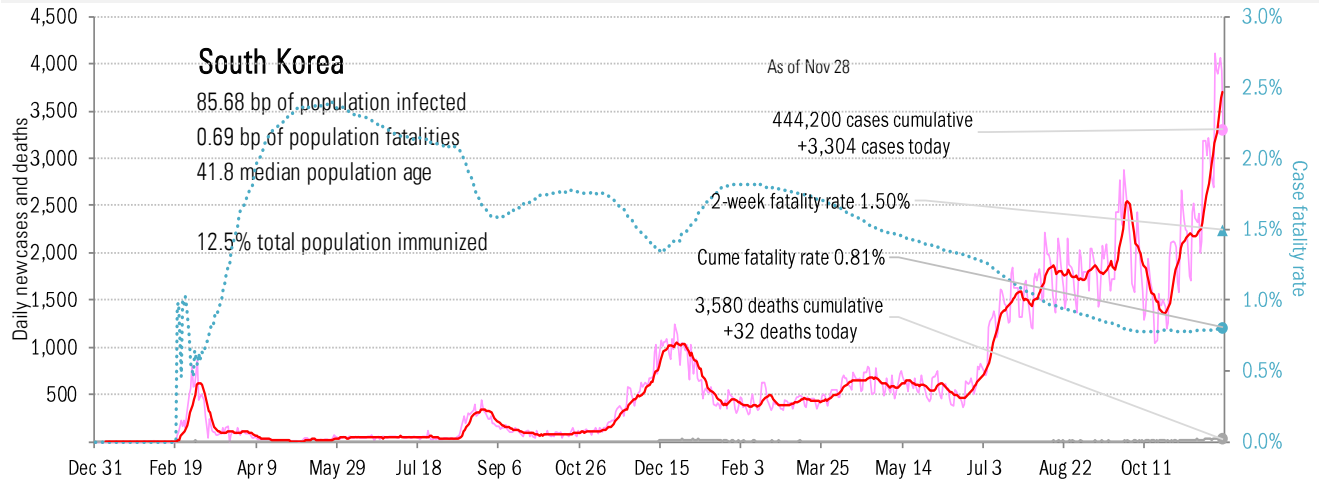
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

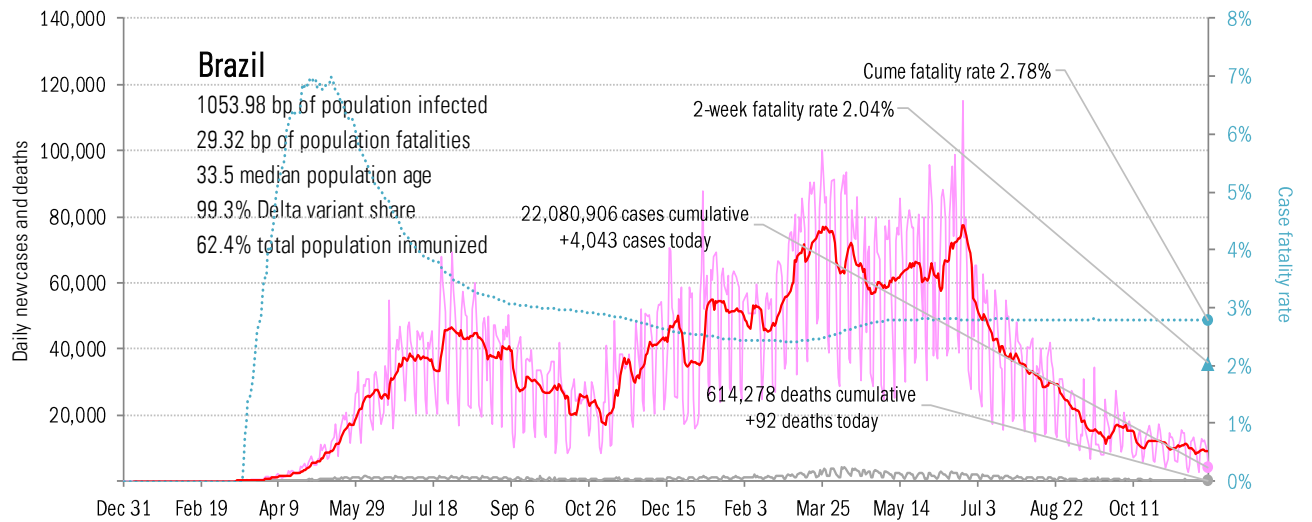
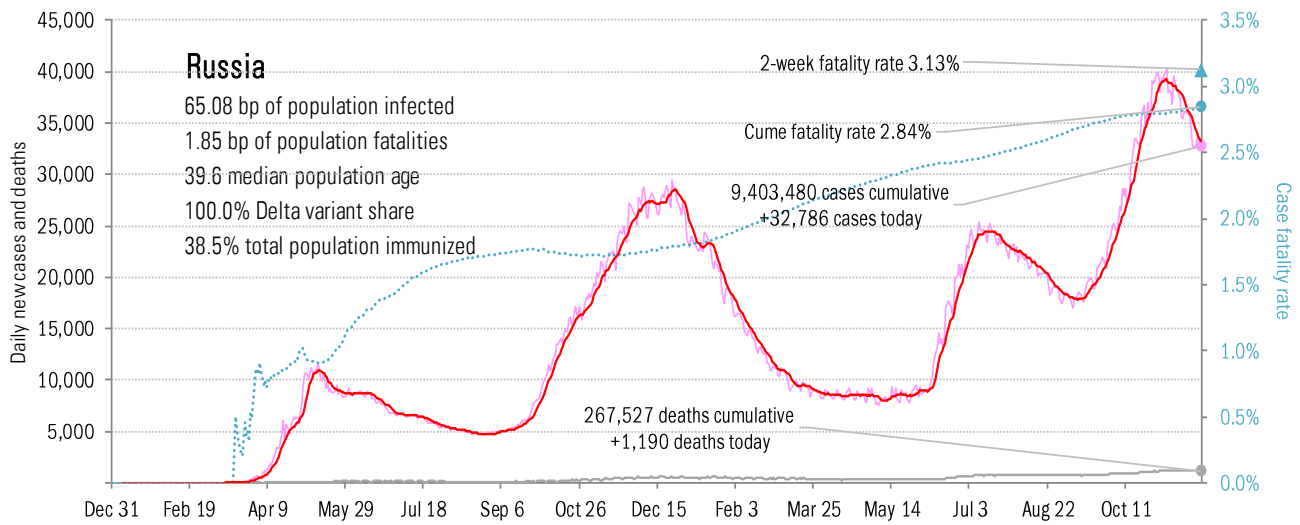
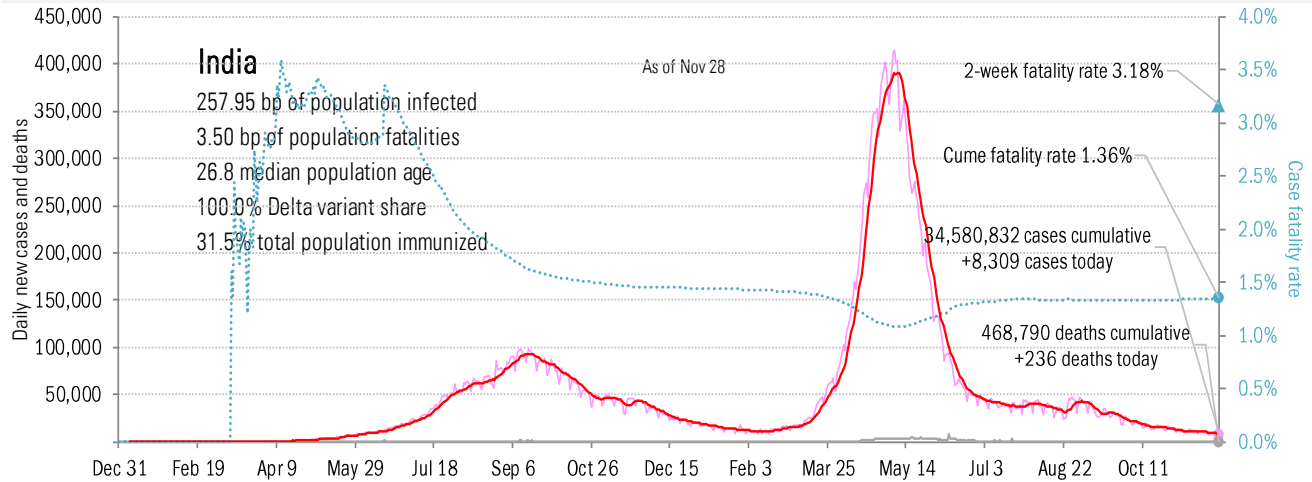
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

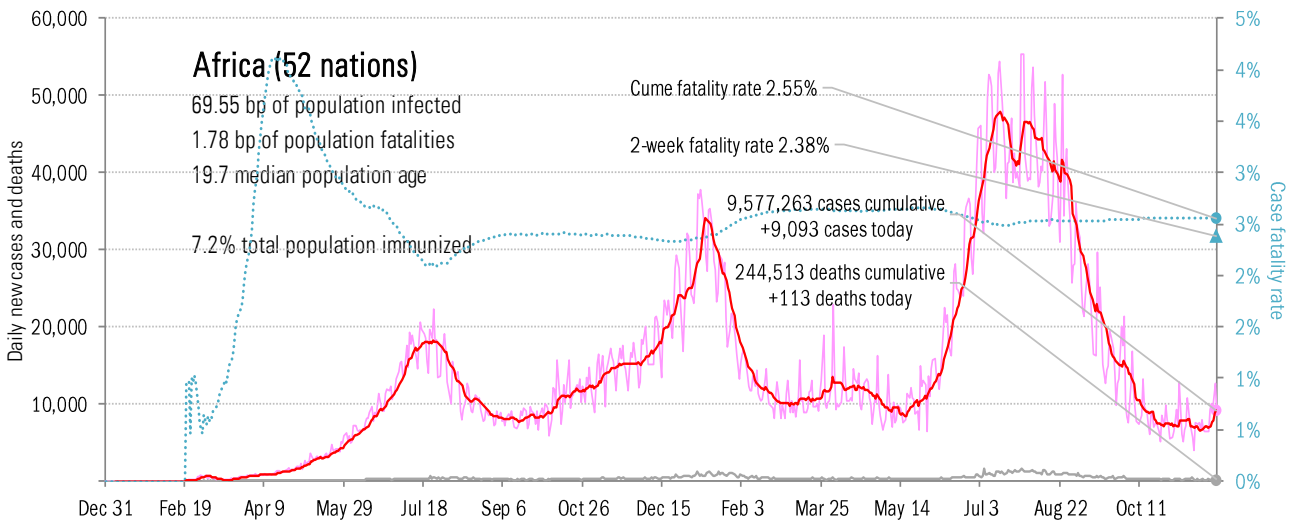
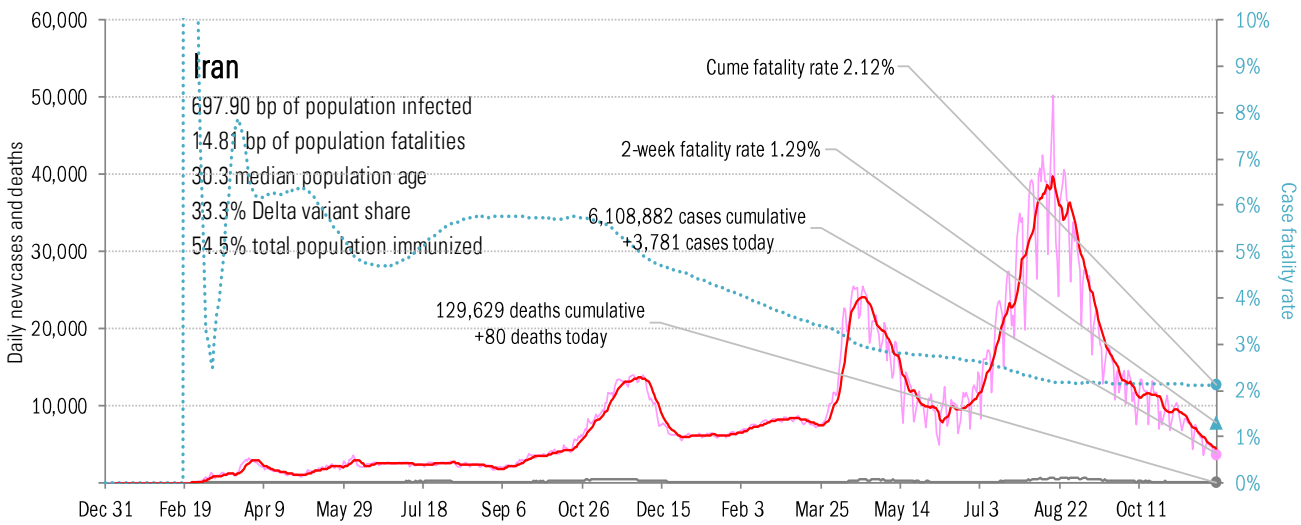
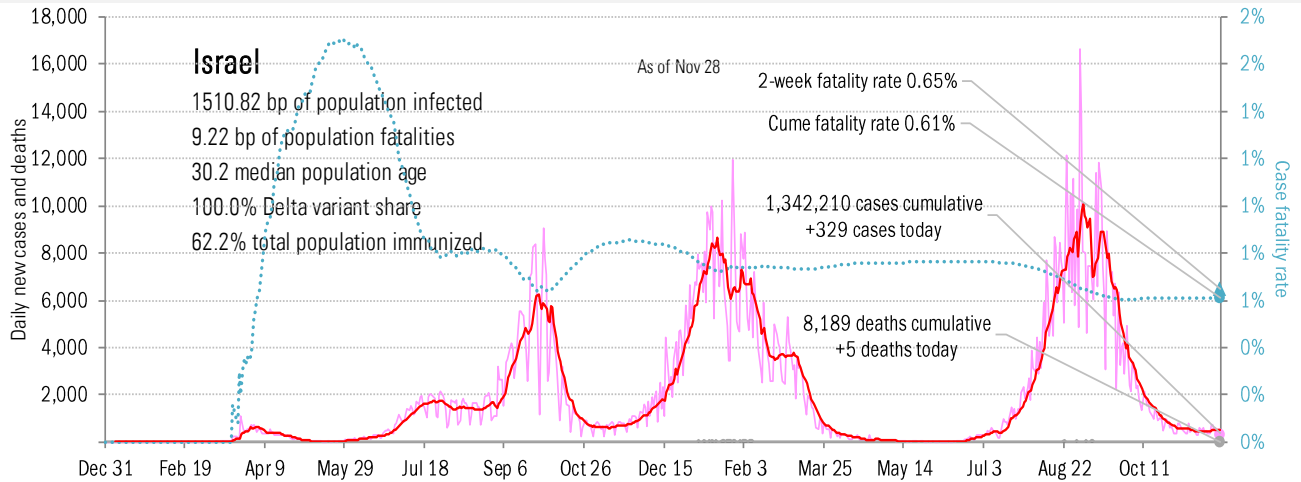
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

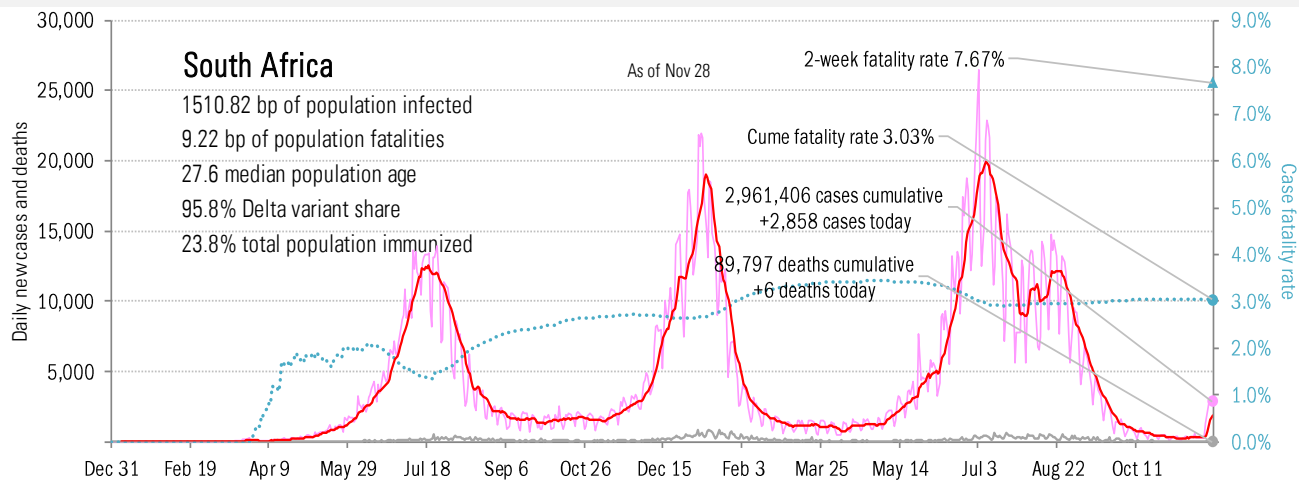
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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