

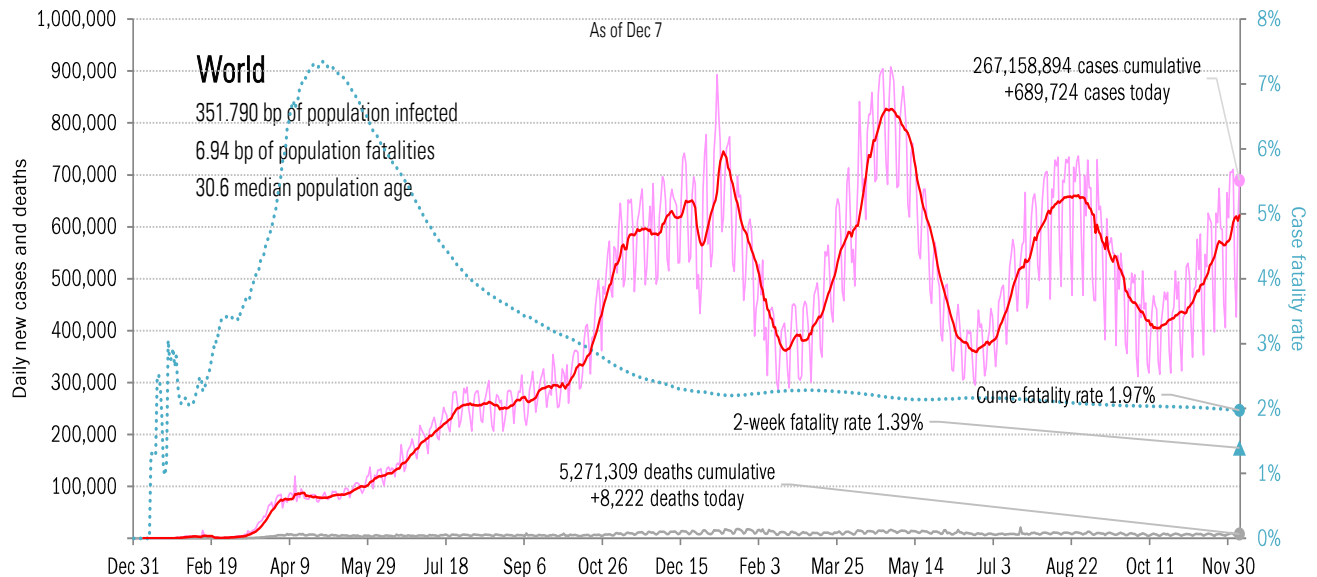
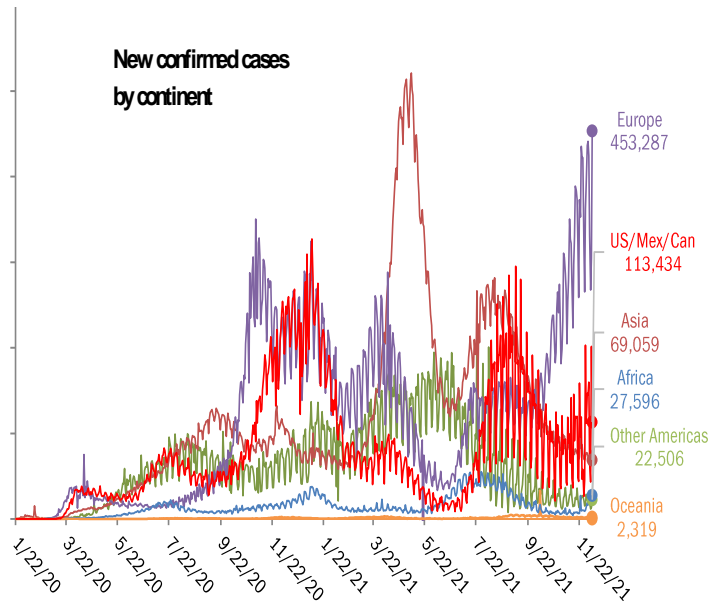
## Data Insights: Covid-2019 Monitor

Wednesday, December 8, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+110,453	United States	+1,643
Germany	+93,087	Russia	+1,152
France	+59,054	Germany	+811
United Kingdom	+45,473	Poland	+505
Spain	+43,808	Ukraine	+497
Russia	+30,546	Brazil	+274
Turkey	+22,687	Hungary	+224
Poland	+19,369	Vietnam	+217
Netherlands	+17,981	Turkey	+198
Italy	+15,742	India	+195
<b>+458,200</b>		<b>+5,716</b>	
World	+689,724	World	+8,222
Top ten	66%	Top ten	70%



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

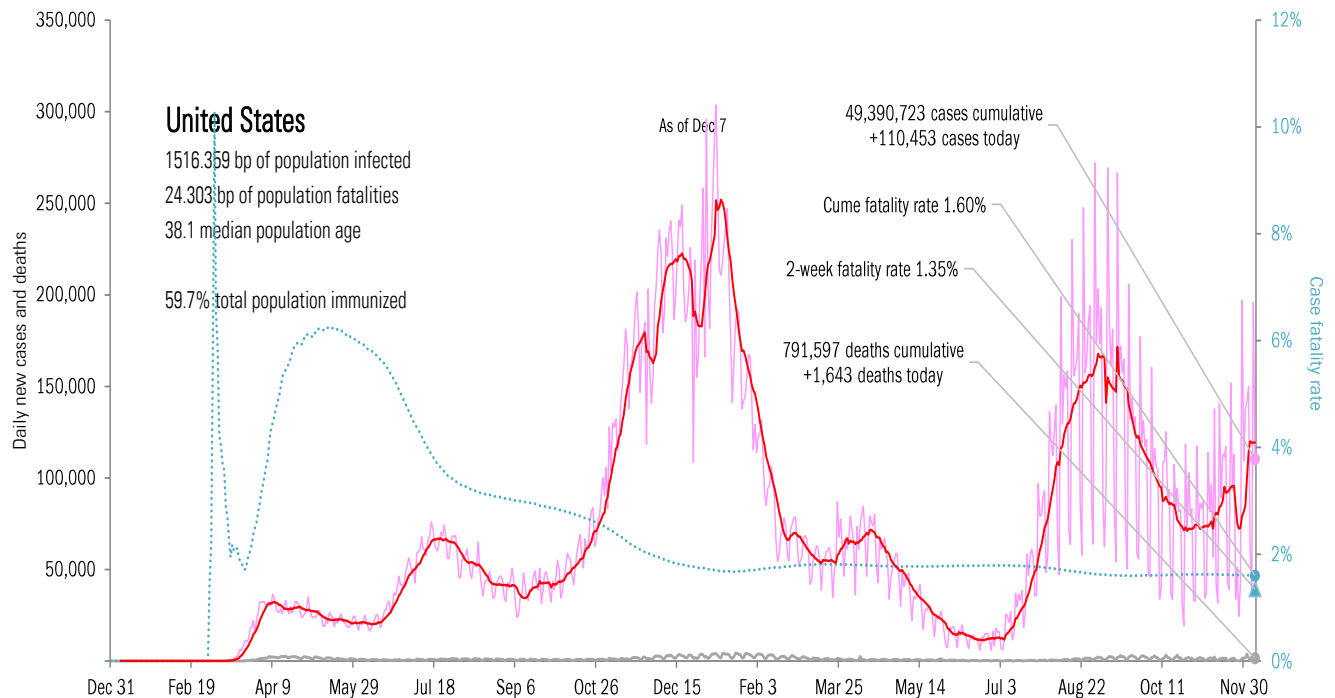
## The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
MN	+12,420		AZ	+172		GA	+90		CA	5,128,725		CA	74,953		TX	387,273		RI	87%	RI	91%
NY	+8,514		TN	+165		IL	+33		TX	4,361,295		TX	74,278		FL	324,790		MI	86%	NM	90%
PA	+7,912		PA	+145		MO	+32		FL	3,744,573		FL	61,872		CA	323,069		MA	85%	MI	89%
CH	+7,876		IN	+93		MA	+18		NY	2,796,990		NY	57,880		NY	175,643		PA	85%	NE	88%
IL	+7,068		CO	+85		VI	+18		IL	1,861,254		PA	34,107		GA	164,095		MD	83%	KY	87%
TX	+5,020		MO	+80		CK	+17		PA	1,791,030		GA	30,724		CH	139,220		GA	82%	NH	86%
MA	+4,506		IL	+78		WV	+15		CH	1,743,801		IL	29,131		PA	130,450		WV	82%	DE	86%
IN	+4,179		NY	+64		DE	+14		GA	1,673,082		NJ	28,494		KY	115,633		MO	81%	PA	85%
IA	+4,115		TX	+61		AR	+12		NC	1,555,216		CH	27,011		IL	113,415		NC	81%	TX	85%
NJ	+3,950		KY	+59		ME	+10		MI	1,535,147		MI	26,239		MI	107,055		NY	80%	AL	85%
<b>+65,560</b>			<b>+1,002</b>			<b>+259</b>			<b>26,191,113</b>			<b>444,689</b>			<b>1,980,643</b>						
All states	+110,453			+1,643			-471		All states	49,390,723			791,597			3,566,049		All states	70%		67%
Top ten	59%			61%			-55%		Top ten	53%			56%			56%		Median	77%		78%

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-17,822	KY	-139	NY	-151	WA	+60 bp
CA	-16,169	MI	-131	MI	-109	ME	+40 bp
IL	-12,042	FL	-102	PA	-106	NE	+40 bp
IN	-8,205	CA	-67	IN	-101	IA	+30 bp
MA	-7,113	SC	-38	CA	-96	MS	+30 bp

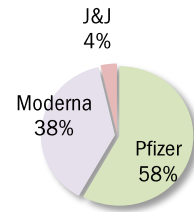


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	486,004,082	+1.547 million	US	59.7%	71.2%
Boosters	48,663,767	+0.828 million	UK	68.3%	75.0%
	<b>One dose</b>	<b>% Pop</b>	<b>Immune</b>	<b>% pop</b>	<b>New immune today</b>
Total population	242,247,770	72%	204,783,548	61%	+0.375 million
Age 12 to 17	14,790,668	62%	12,402,412	52%	+0.017 million
Age 18 to 64	164,227,297	81%	140,789,081	69%	+0.114 million
Age 65 and over	57,307,635	100%	49,080,191	89%	+0.022 million

France	70.4%	77.2%
Spain	80.6%	82.3%
Germany	68.6%	71.6%
Italy	73.2%	78.7%
Australia	74.1%	78.1%
Israel	62.3%	68.7%
Canada	76.5%	81.4%
Japan	77.6%	79.3%
Africa	7.7%	11.7%
India	34.9%	57.8%
Brazil	64.4%	77.0%
China	76.9%	84.8%



**State**

At least partial immunity as % population

Full immunity as % population

Best

Middle

Worst

Every American >18 immunized in **64 days** by Feb 8, 2022

73.4% of population >18 immunized

17.4% previously tested positive

**90.7%** vs 60% adult herd immunity

Global data differs due to sources, timing

**AK**

63.6%

55.0%

**WI**

66.4%

60.3%

As of Dec 7

**ME**

83.0%

73.3%

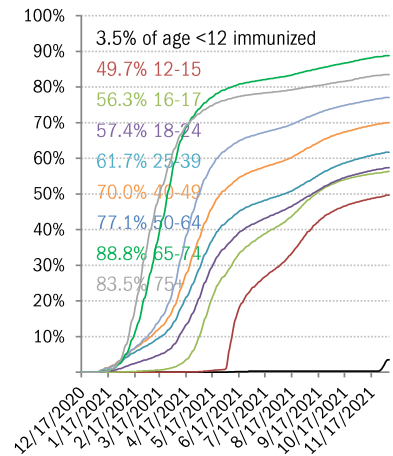
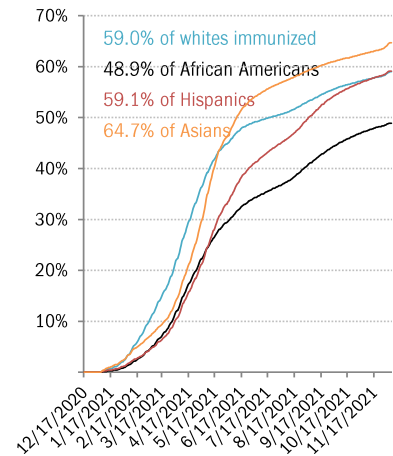
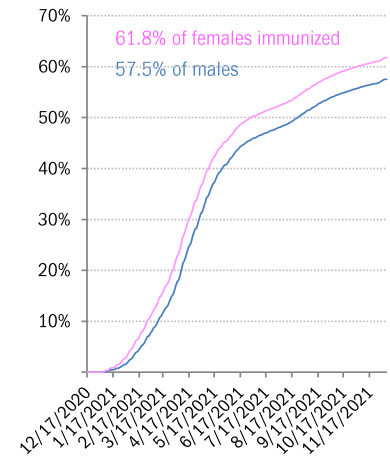
<b>WA</b> 73.6% 66.1%	<b>ID</b> 51.2% 45.5%	<b>MT</b> 60.5% 52.5%	<b>ND</b> 58.7% 49.4%	<b>MN</b> 69.7% 63.5%	<b>IL</b> 70.0% 62.5%	<b>MI</b> 61.8% 55.3%	<b>NY</b> 79.5% 69.2%	<b>VT</b> 86.6% 74.2%	<b>NH</b> 89.8% 65.2%	
<b>OR</b> 72.1% 64.8%	<b>NV</b> 67.2% 55.1%	<b>WY</b> 54.4% 46.2%	<b>SD</b> 68.2% 55.5%	<b>IA</b> 63.2% 57.5%	<b>IN</b> 56.3% 51.0%	<b>OH</b> 59.0% 53.7%	<b>PA</b> 82.9% 59.4%	<b>NJ</b> 80.3% 68.7%	<b>MA</b> 87.0% 72.3%	
<b>CA</b> 79.8% 64.1%	<b>UT</b> 65.3% 56.2%	<b>CO</b> 72.3% 64.3%	<b>NE</b> 64.8% 58.3%	<b>MO</b> 60.5% 51.7%	<b>KY</b> 60.9% 52.9%	<b>WV</b> 69.4% 49.2%	<b>VA</b> 76.5% 66.1%	<b>MD</b> 77.8% 68.6%	<b>CT</b> 85.1% 72.9%	<b>RI</b> 84.6% 73.9%
	<b>AZ</b> 65.1% 55.4%	<b>NM</b> 77.7% 64.3%	<b>KS</b> 67.0% 55.3%	<b>AR</b> 61.1% 49.8%	<b>TN</b> 57.4% 50.0%	<b>NC</b> 71.8% 55.0%	<b>SC</b> 61.0% 52.0%	<b>DC</b> 83.2% 65.4%	<b>DE</b> 73.5% 61.9%	
			<b>OK</b> 63.7% 52.1%	<b>LA</b> 56.1% 49.2%	<b>MS</b> 54.5% 47.4%	<b>AL</b> 57.2% 46.6%	<b>GA</b> 59.6% 49.6%			
			<b>TX</b> 64.8% 55.4%					<b>FL</b> 72.5% 62.0%	<b>PR</b> 85.8% 74.7%	

**HI**

82.9%

61.8%

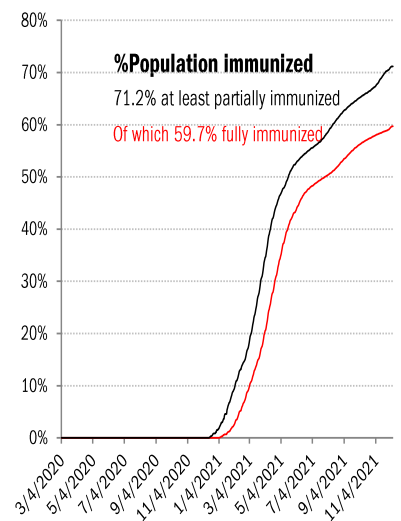
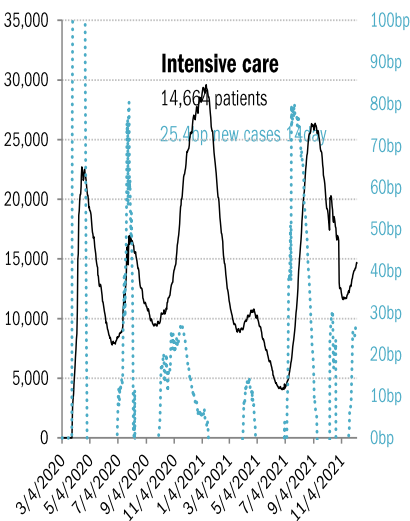
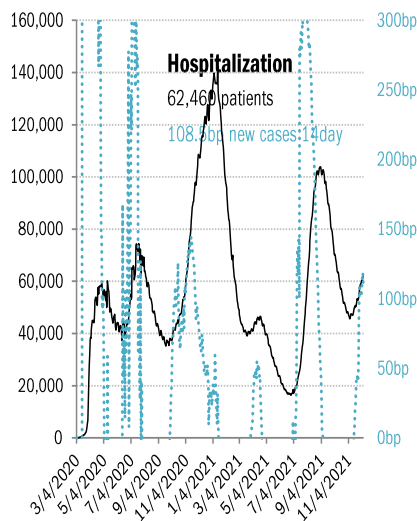
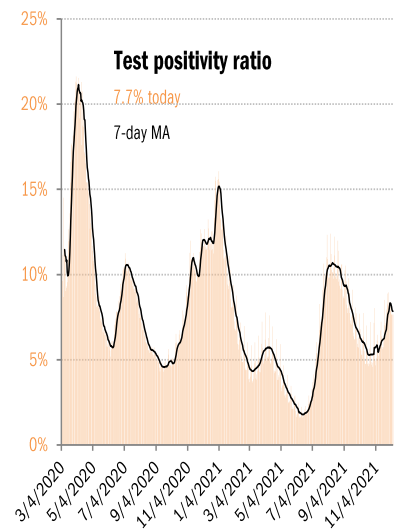
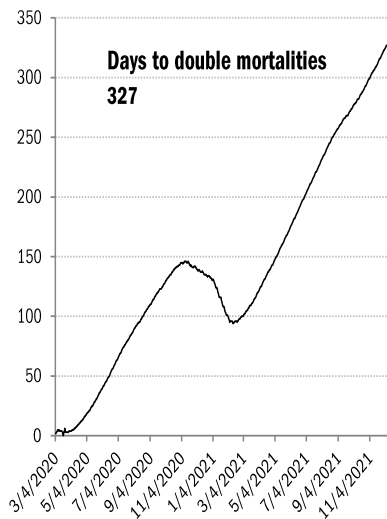
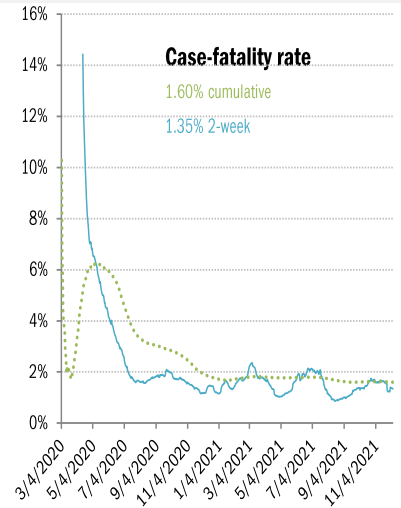
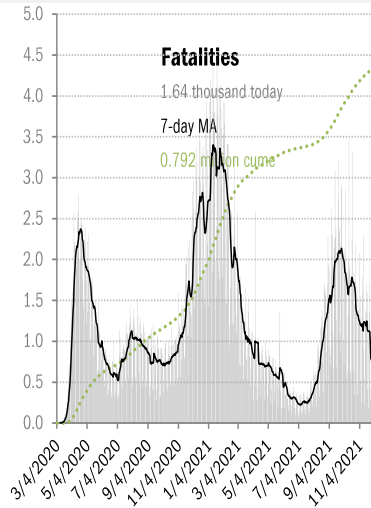
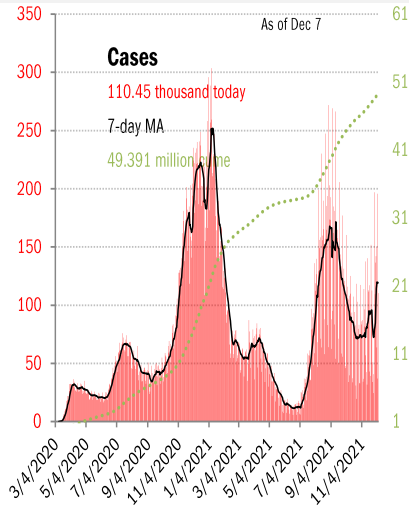
## The demographics of US vaccination



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

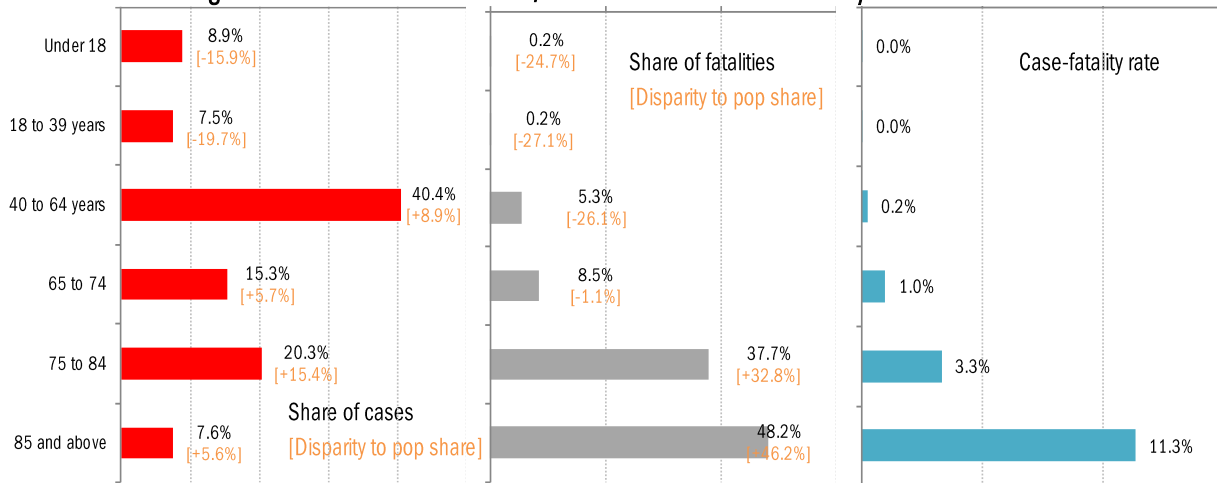
# US deep-dive

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

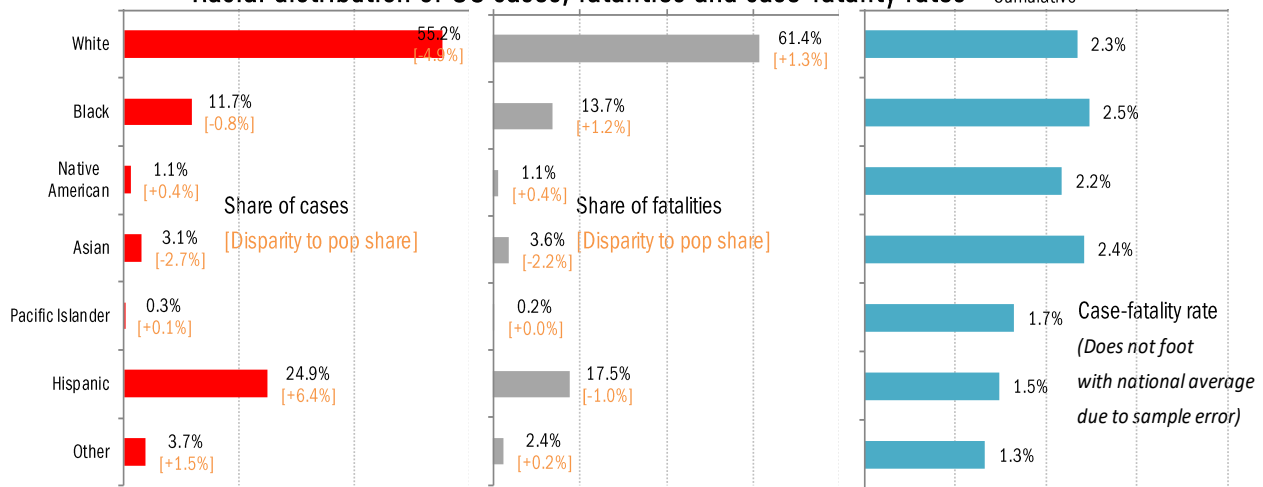


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

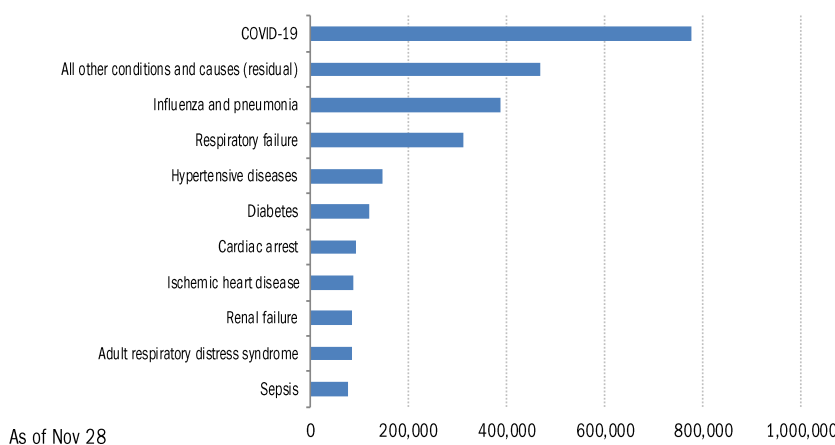


Racial distribution of US cases, fatalities and case-fatality rates



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

### [Omicron Threat May Be Countered With Extra Dose of Vaccine](#)

Jason Gale and Naomi Kresge  
*Bloomberg*  
December 8, 2021

### [Biden Finds a Culprit for America's Crime Wave: Covid-19](#)

Gerard Baker  
*Wall Street Journal*  
December 7, 2021

### [Pfizer says booster dose of vaccine protects against omicron variant](#)

Berkeley Lovelace Jr.  
*NBC*  
December 8, 2021

### [De Blasio's Vaccine Mandate Looks Unlawful](#)

Eugene Kontorovich  
*New York Times*  
December 7, 2021

## Meme of the day

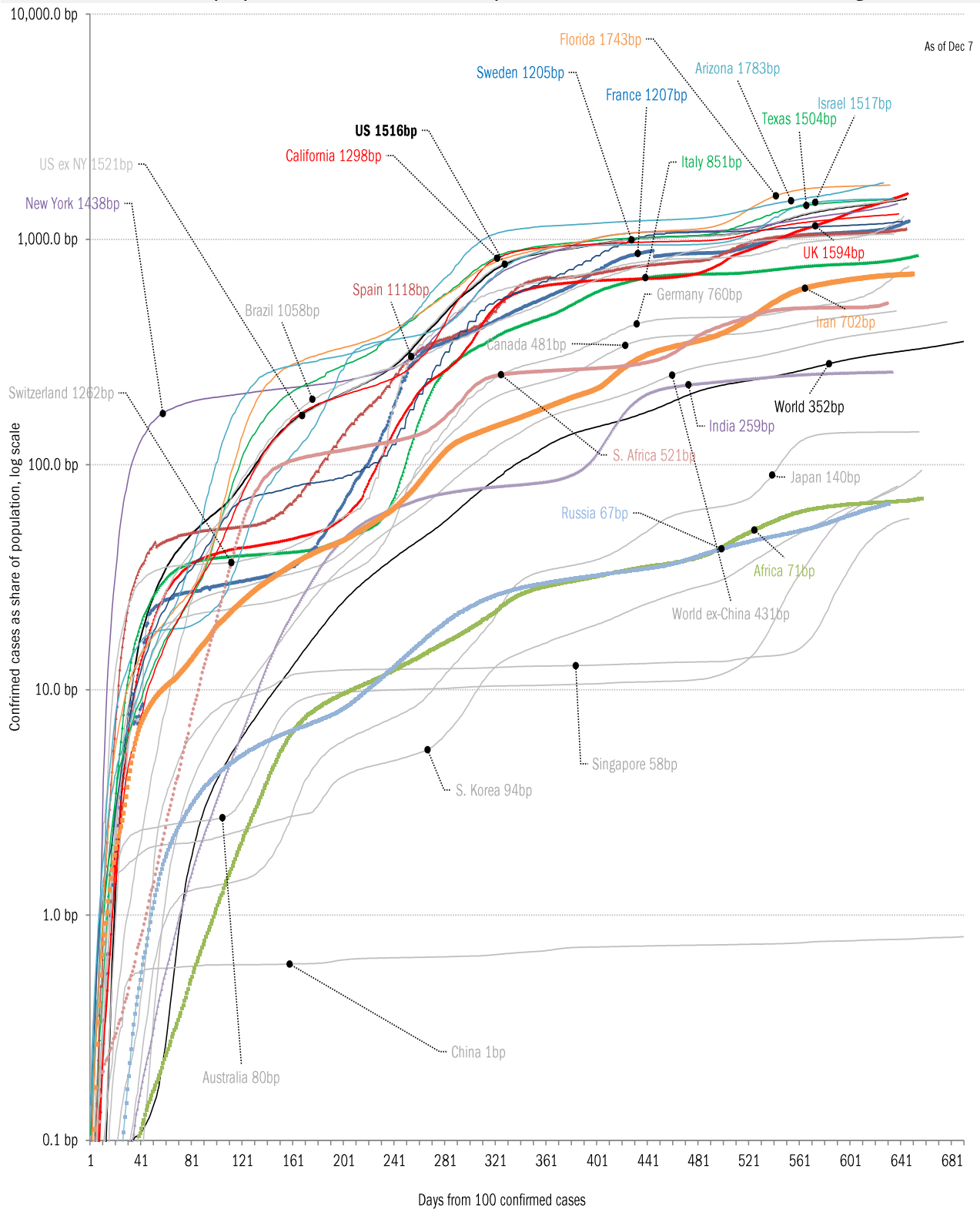
**Robots Read News:** An Occasional Web Comic by Scott Adams



@ScottAdamsSays

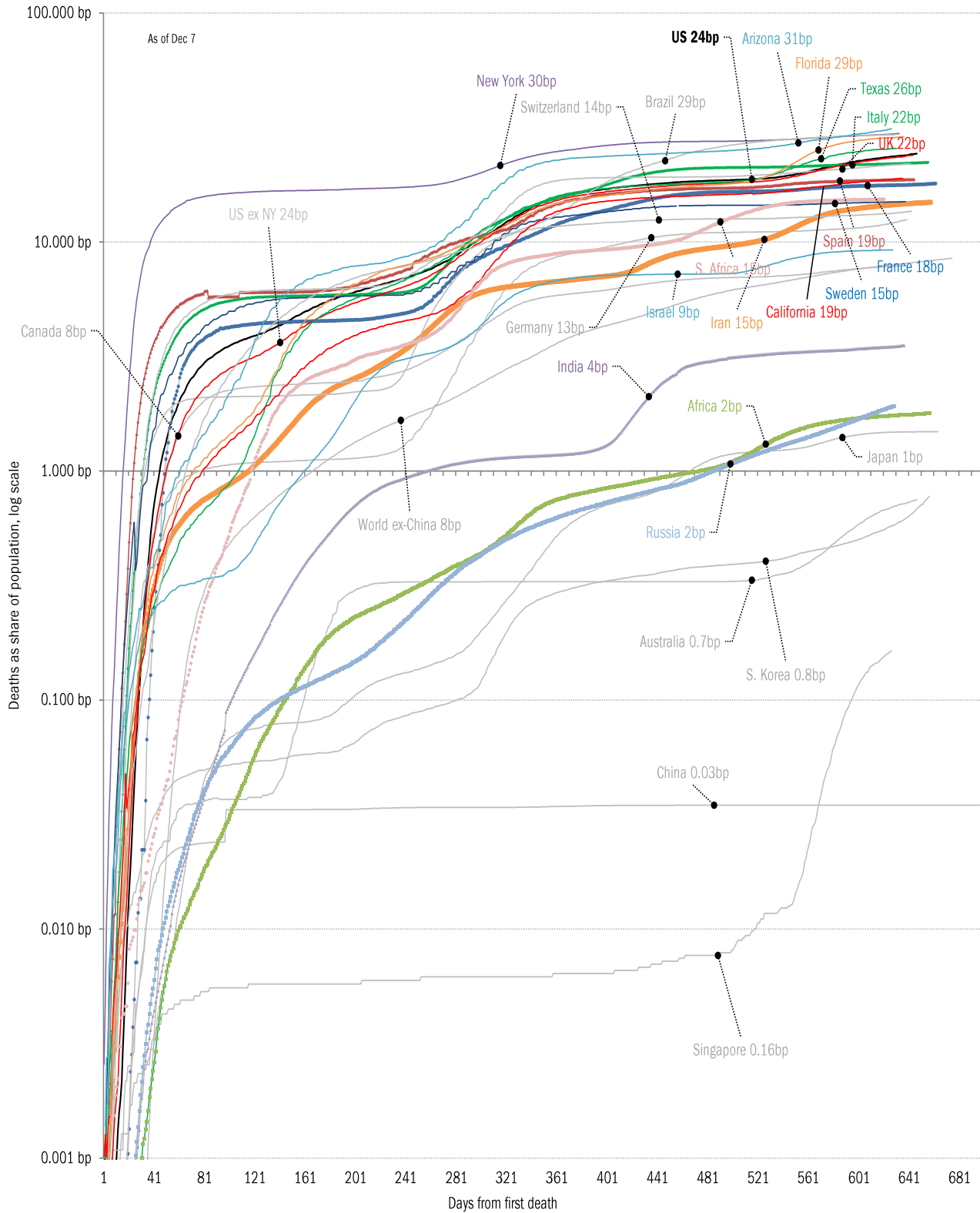
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



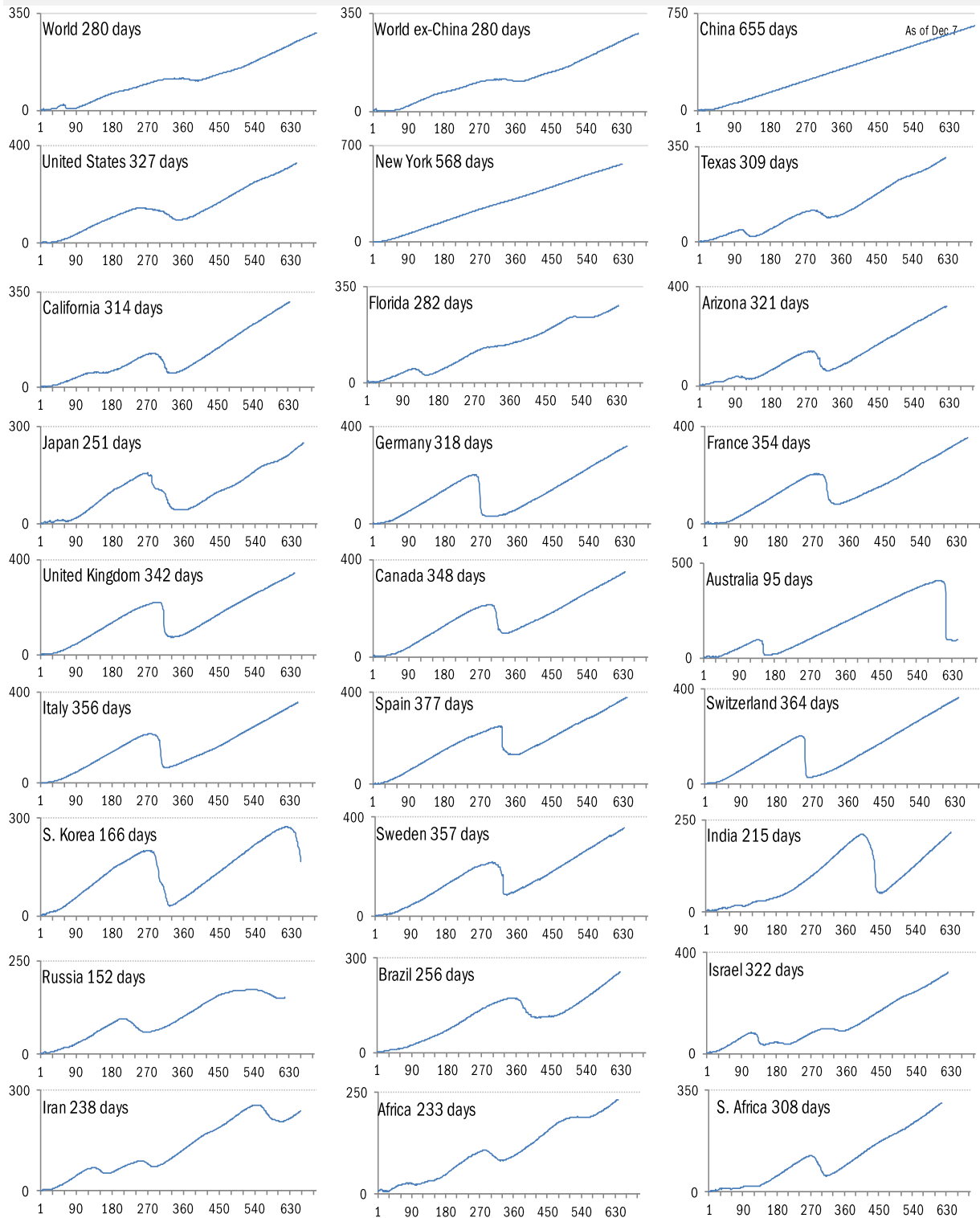
Source: [Johns Hopkins](#), TrendMacro calculations



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

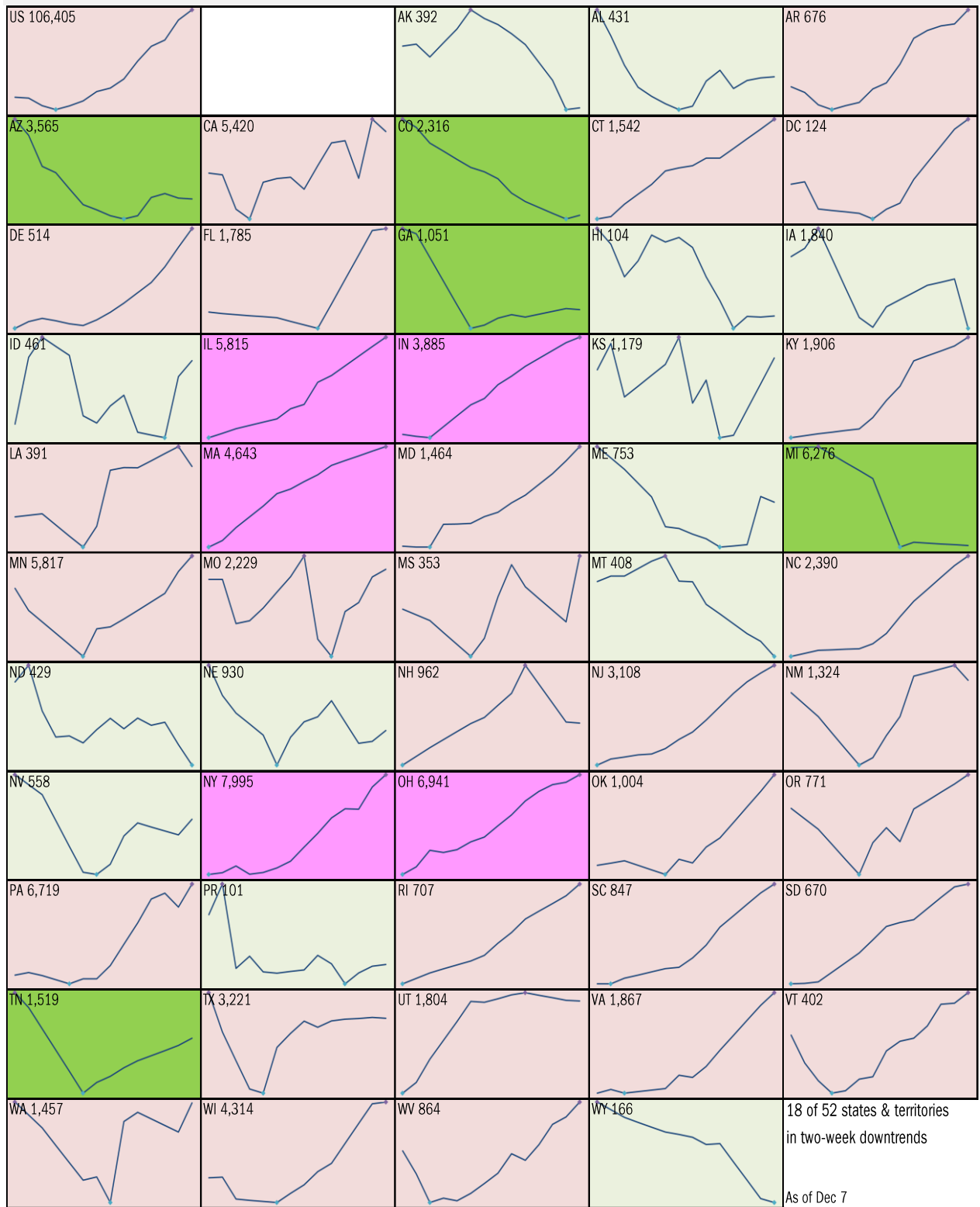
Vertical: days to double deaths Horizontal: days from first death

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread



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

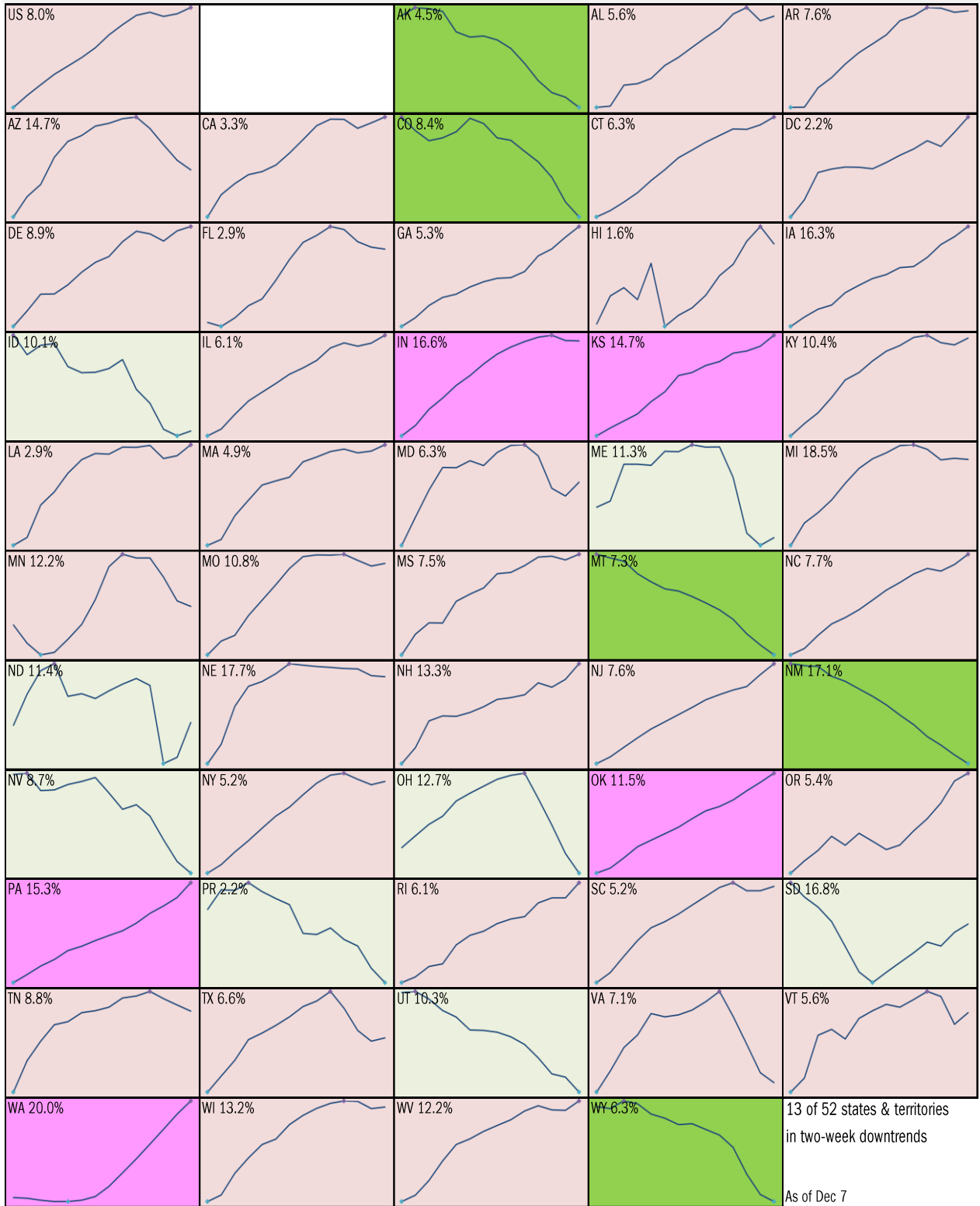
Requirement to [Open Up America Again](#): 14-day "downward trajectory" in new cases  
 14-day moving average, last 14 days *Most recent value displayed* ● High ● Low  
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

Alt requirement to [Open Up America Again](#): 14-day "downward trajectory" in pos tests

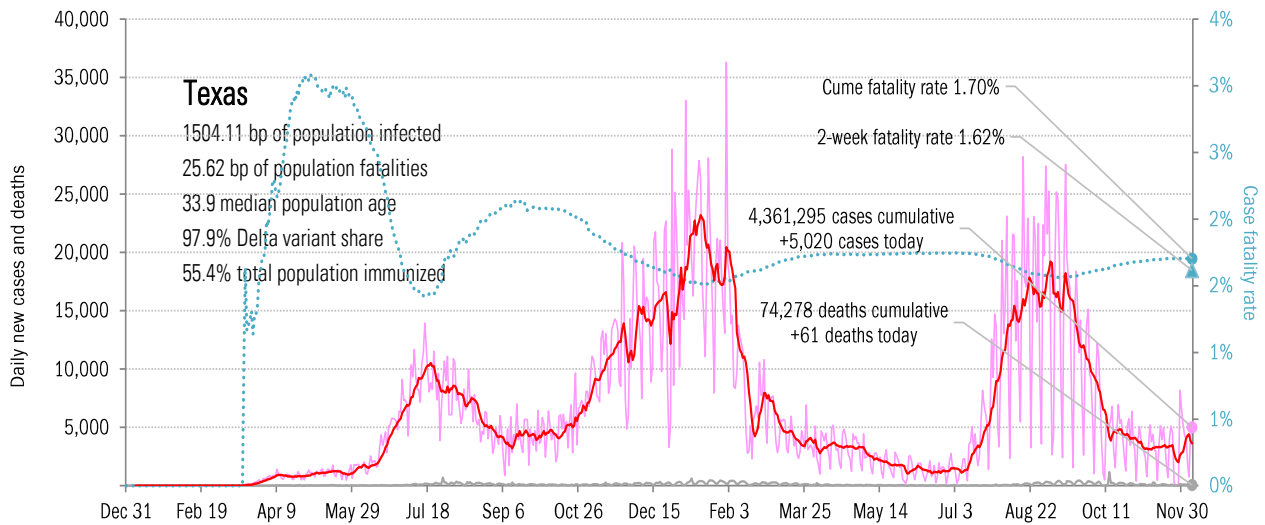
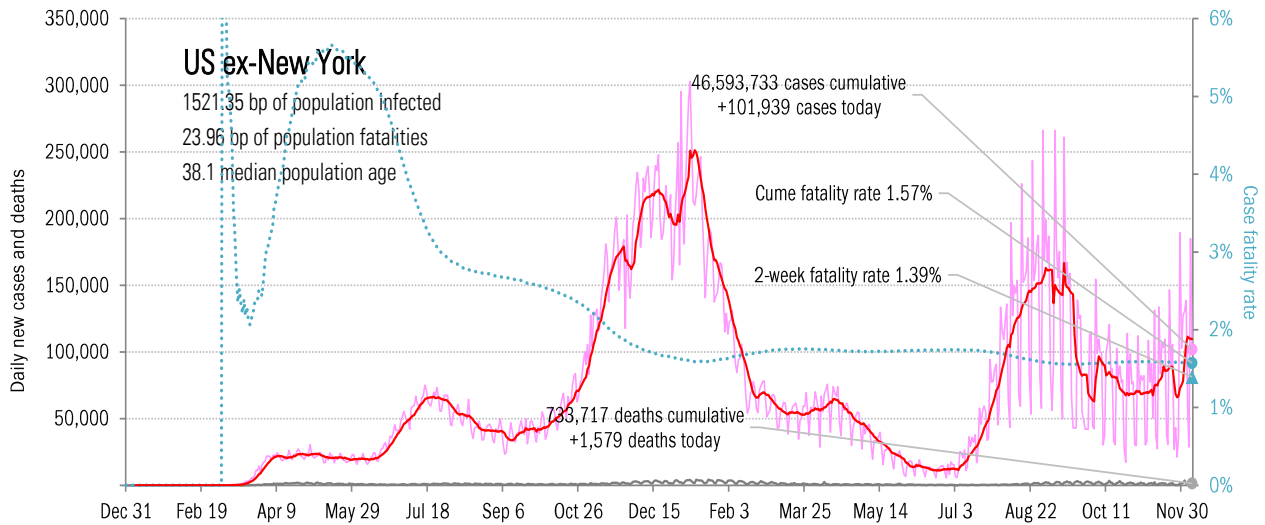
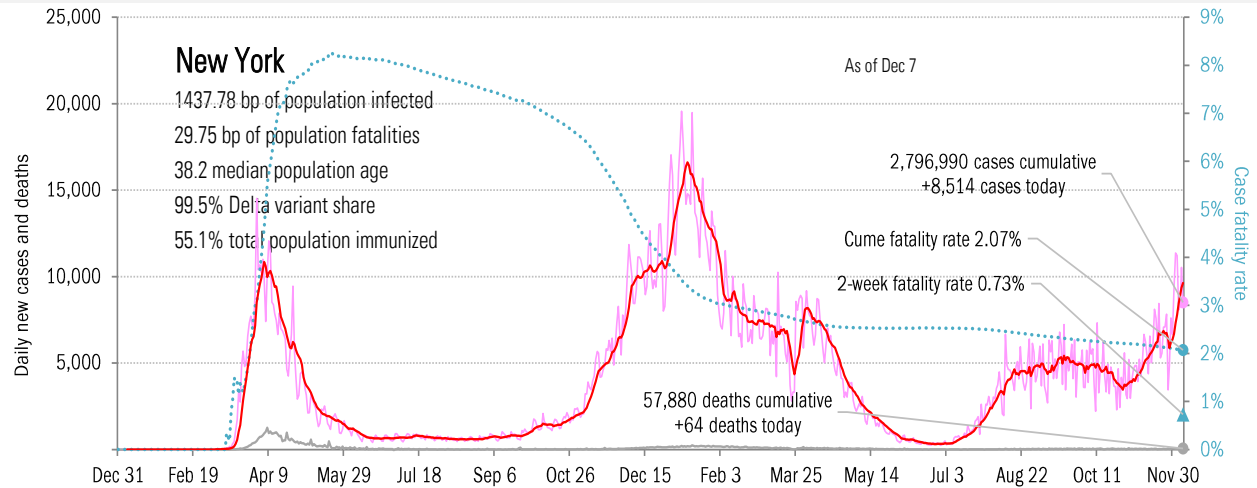
14-day moving average, last 14 days *Most recent value displayed* ● High ● Low  
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

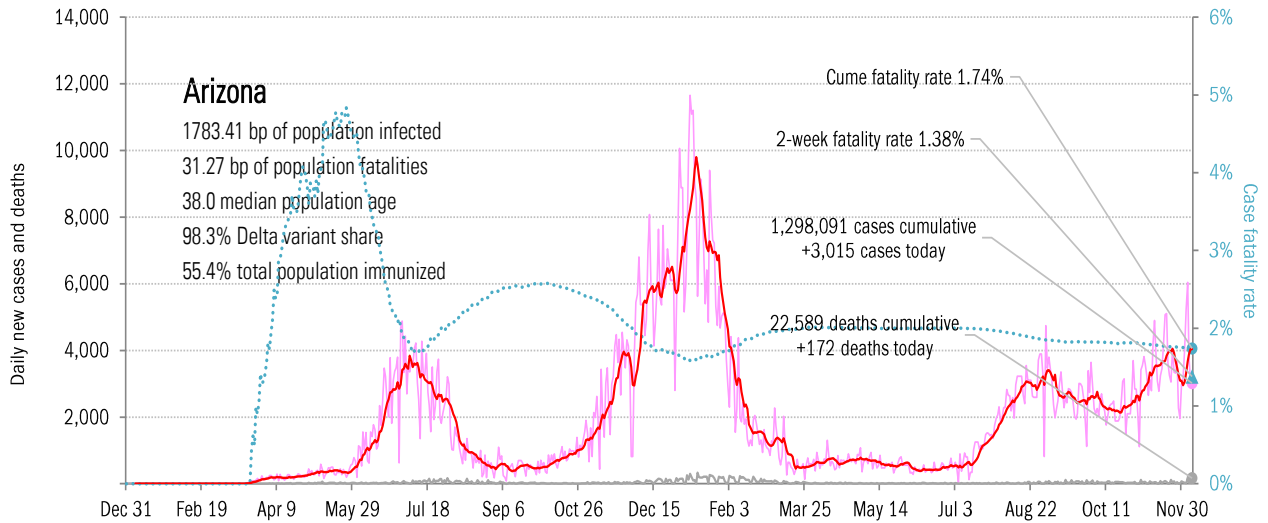
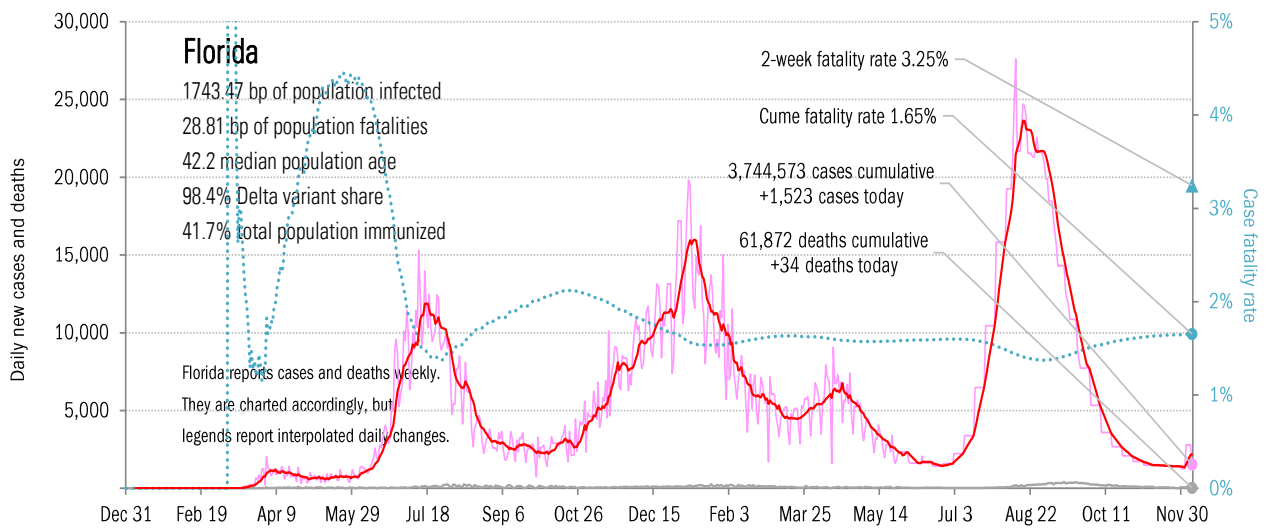
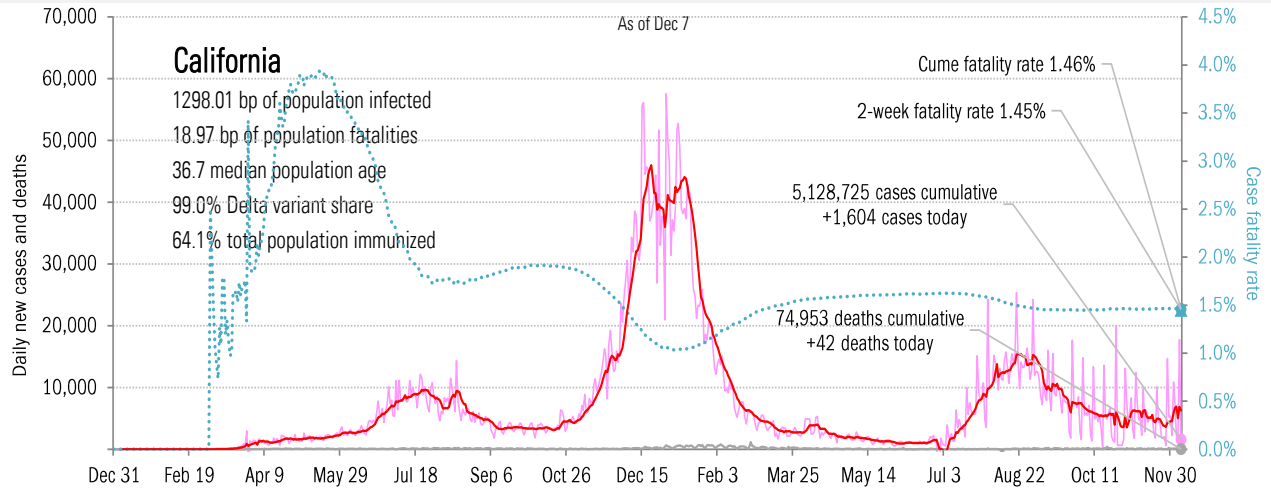
Cases: 7-day average and daily Deaths: Daily



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

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

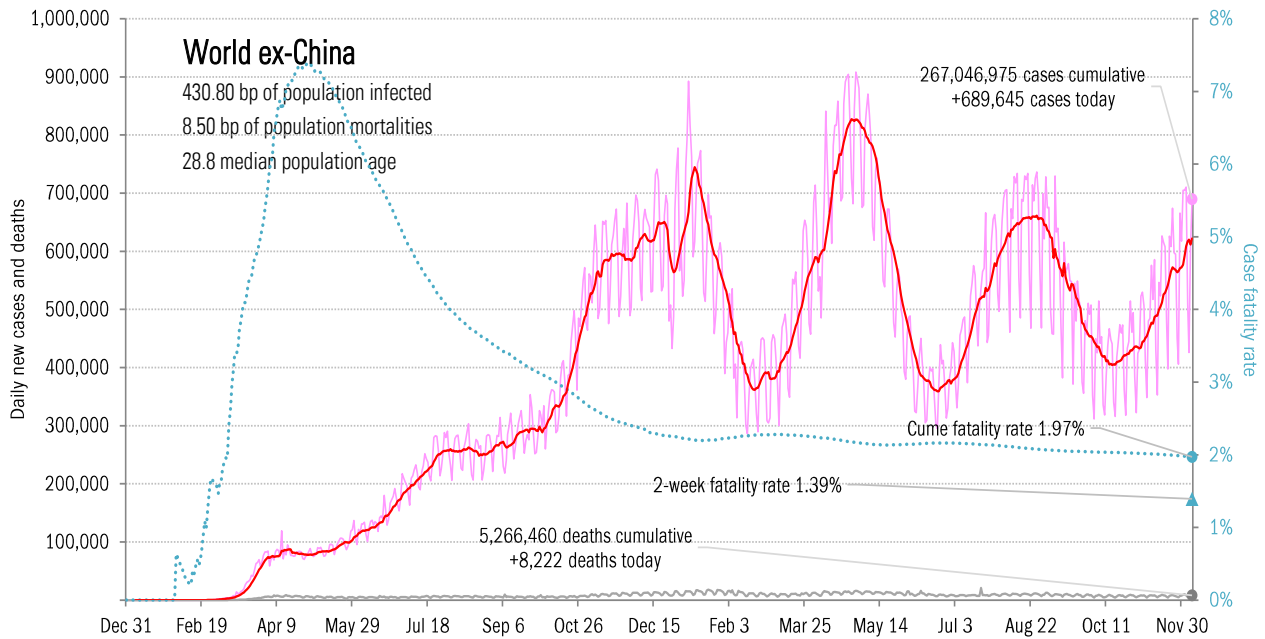
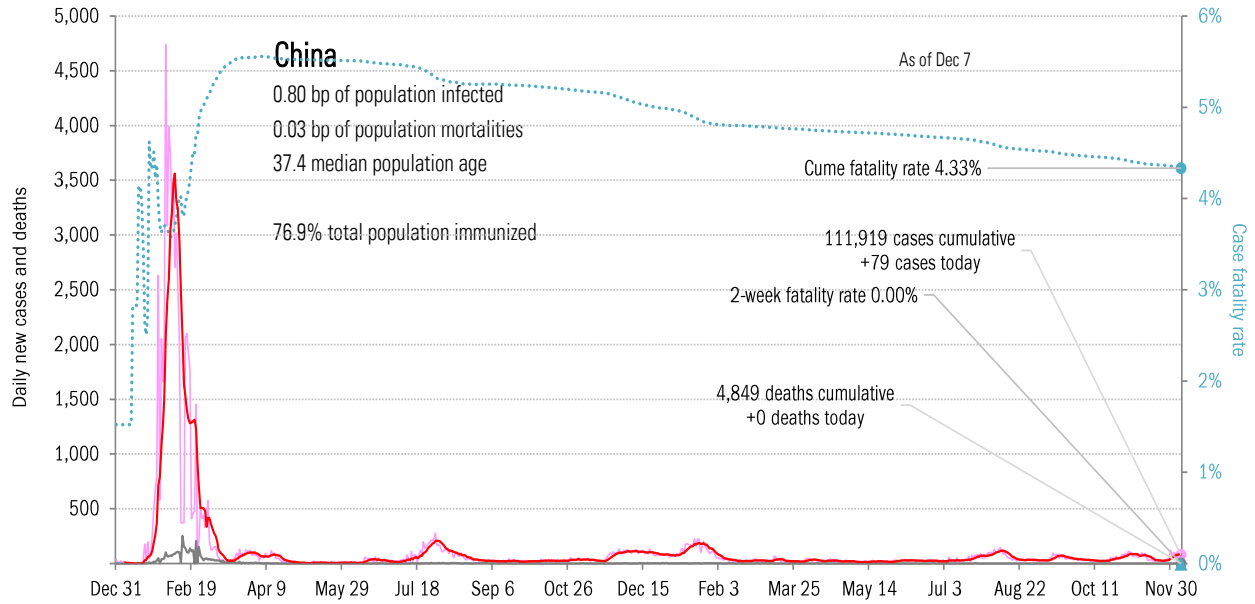
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

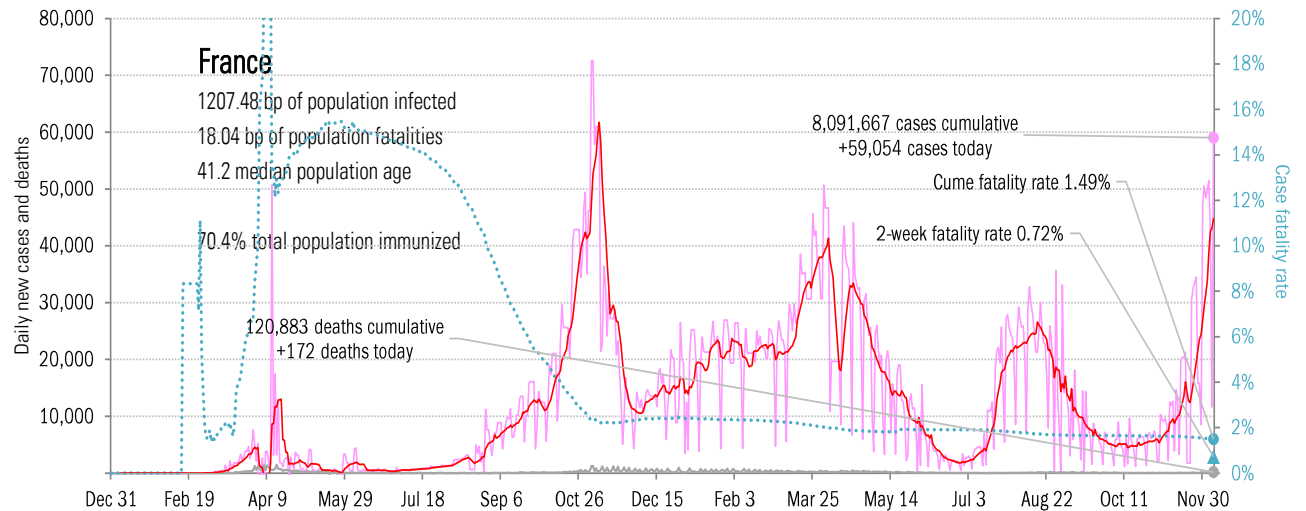
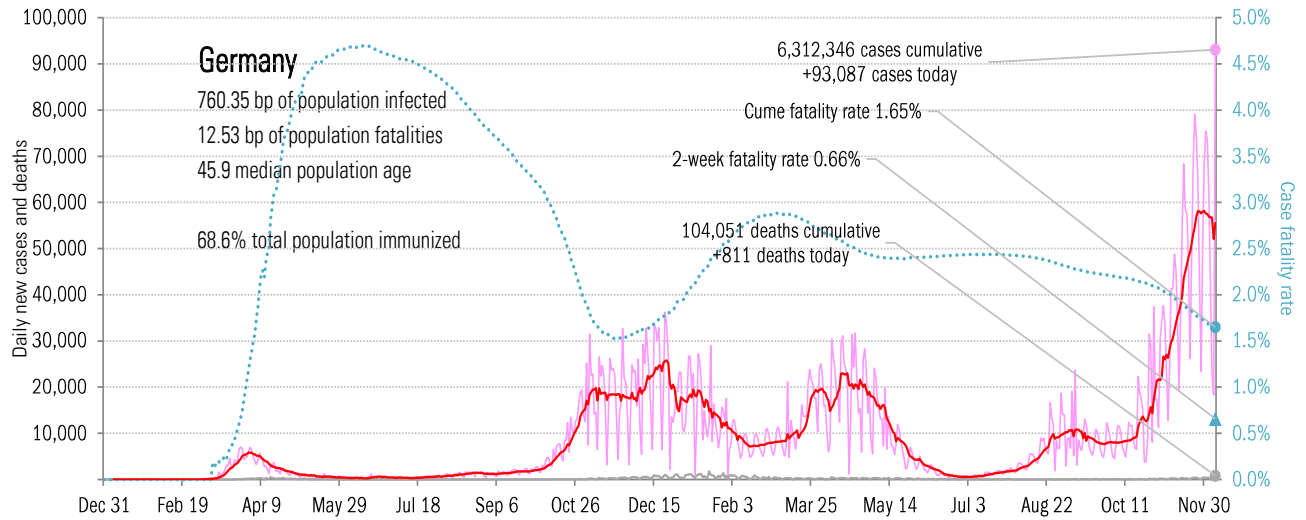
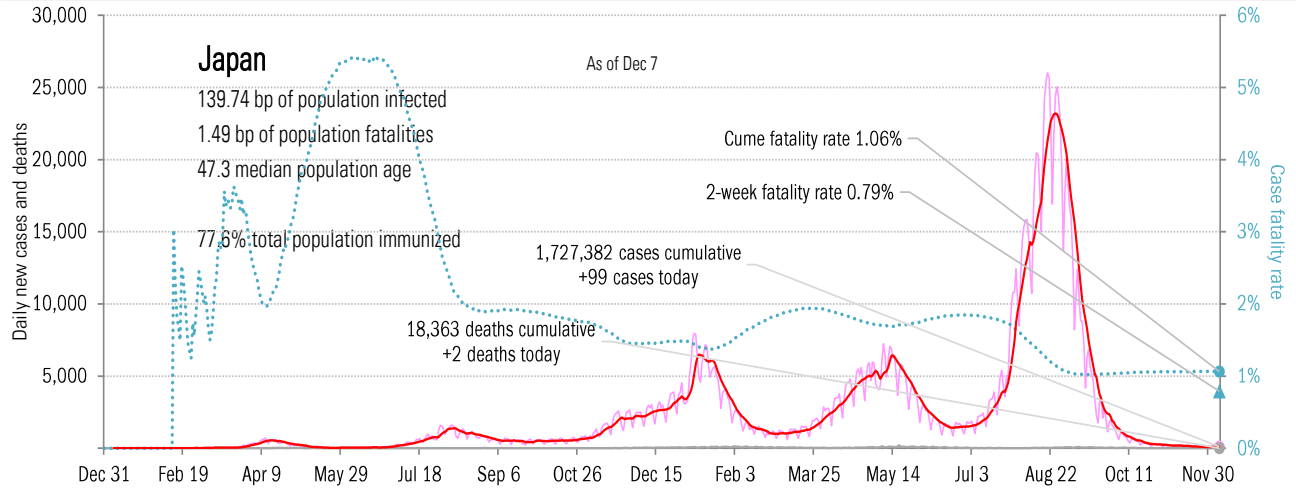
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

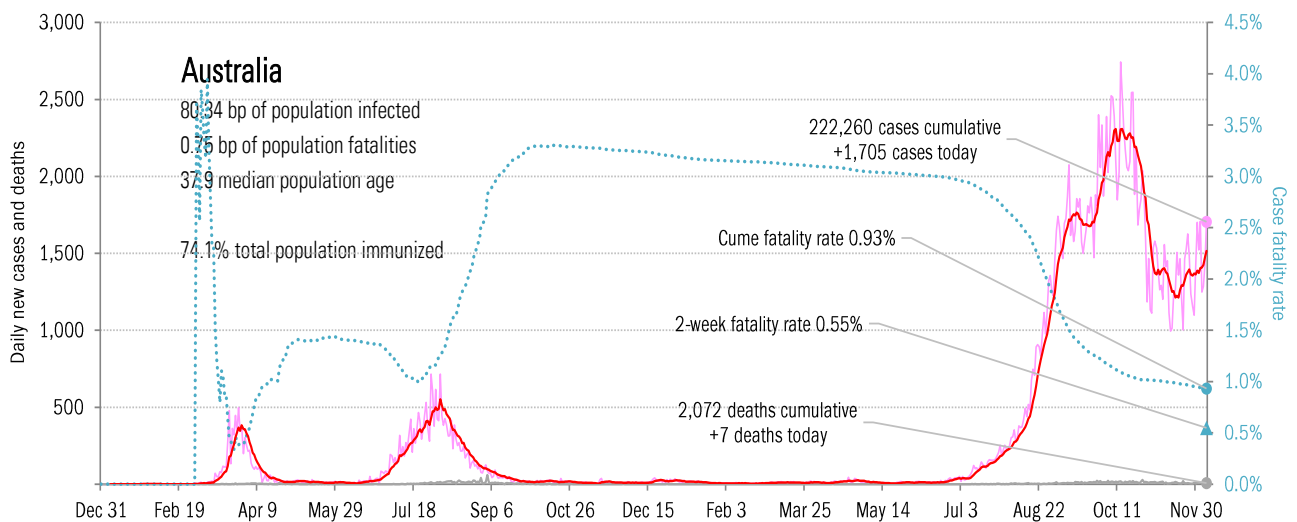
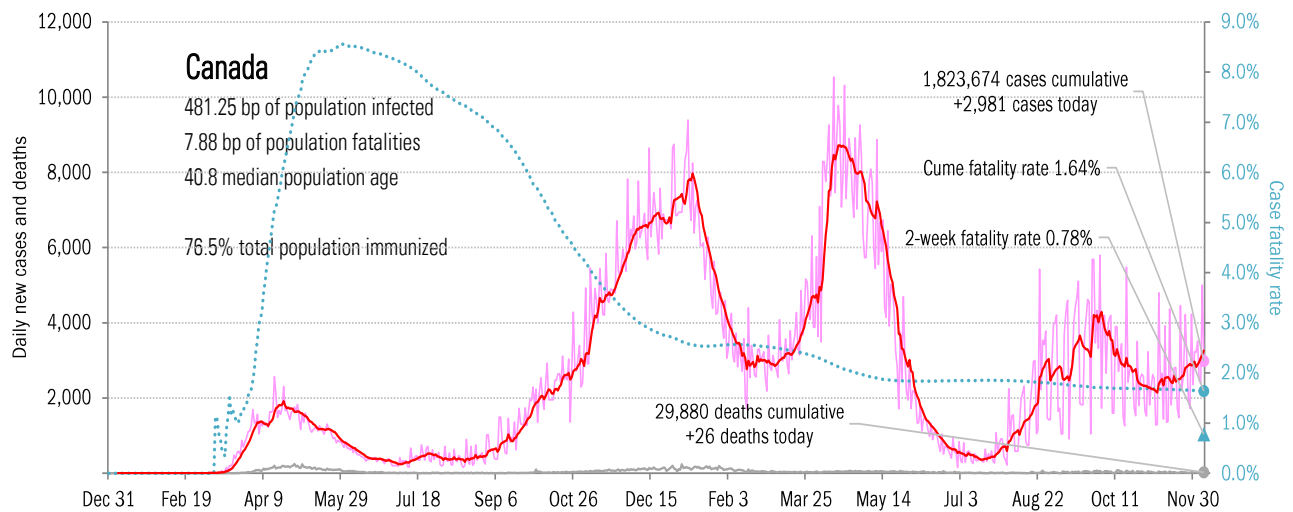
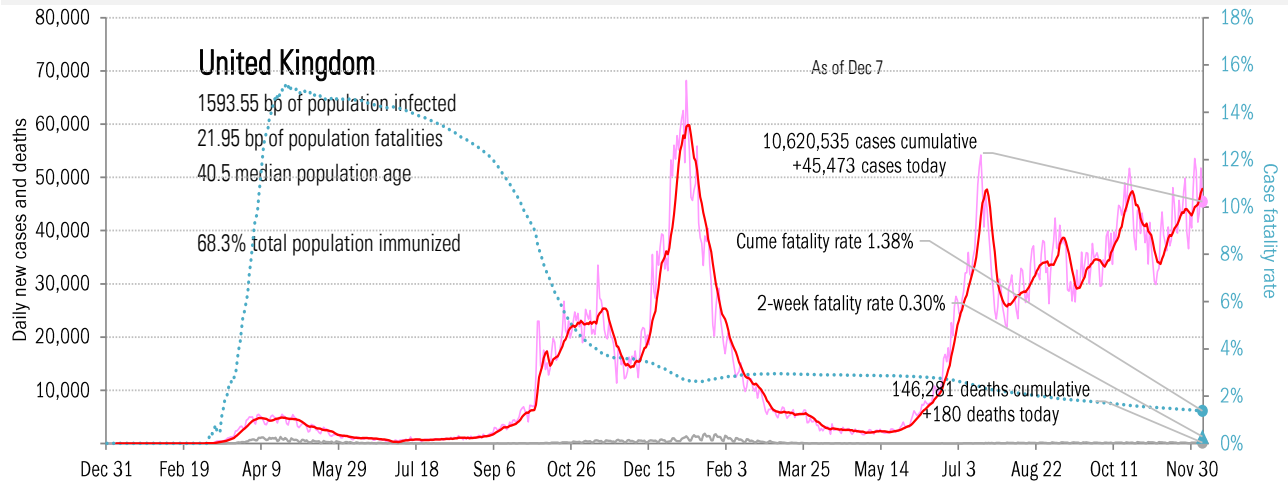
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

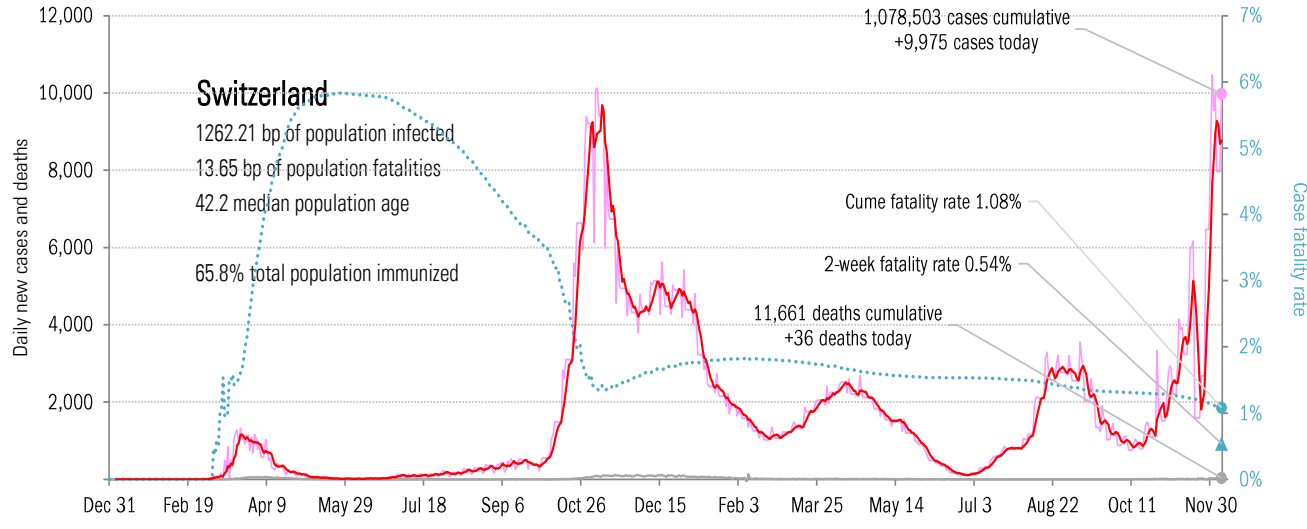
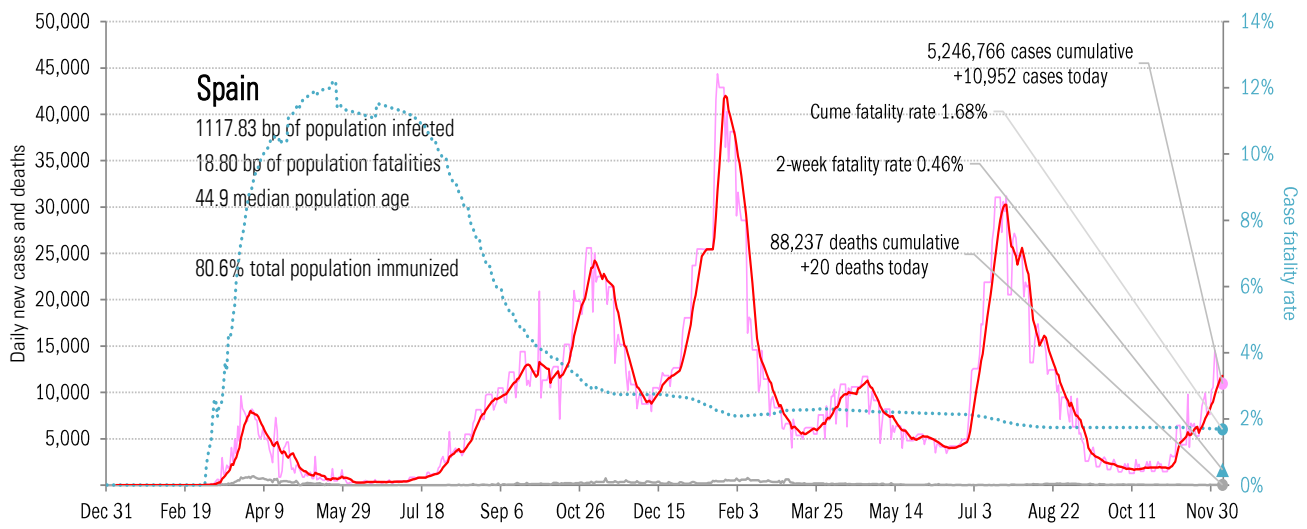
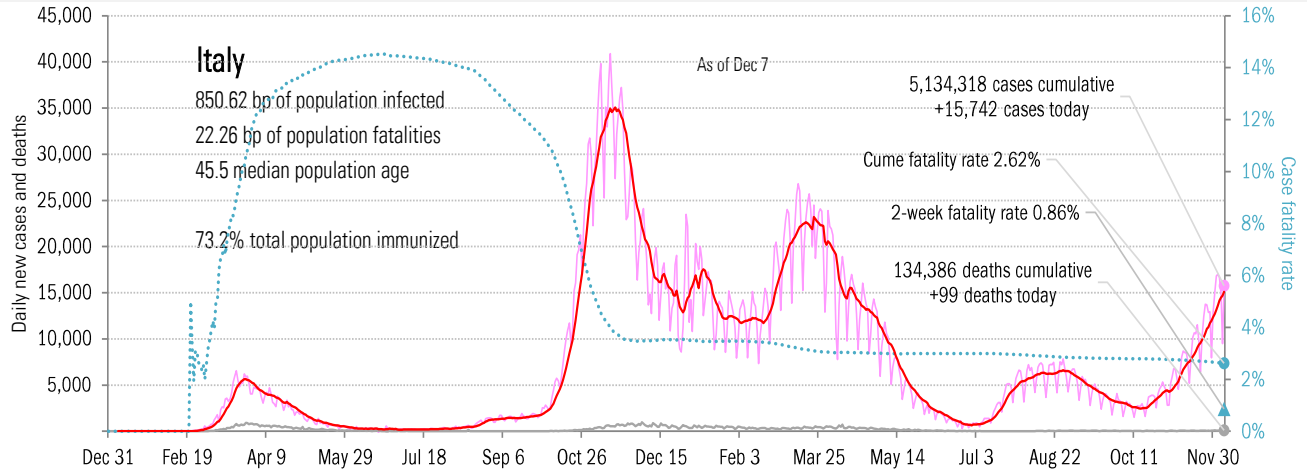


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

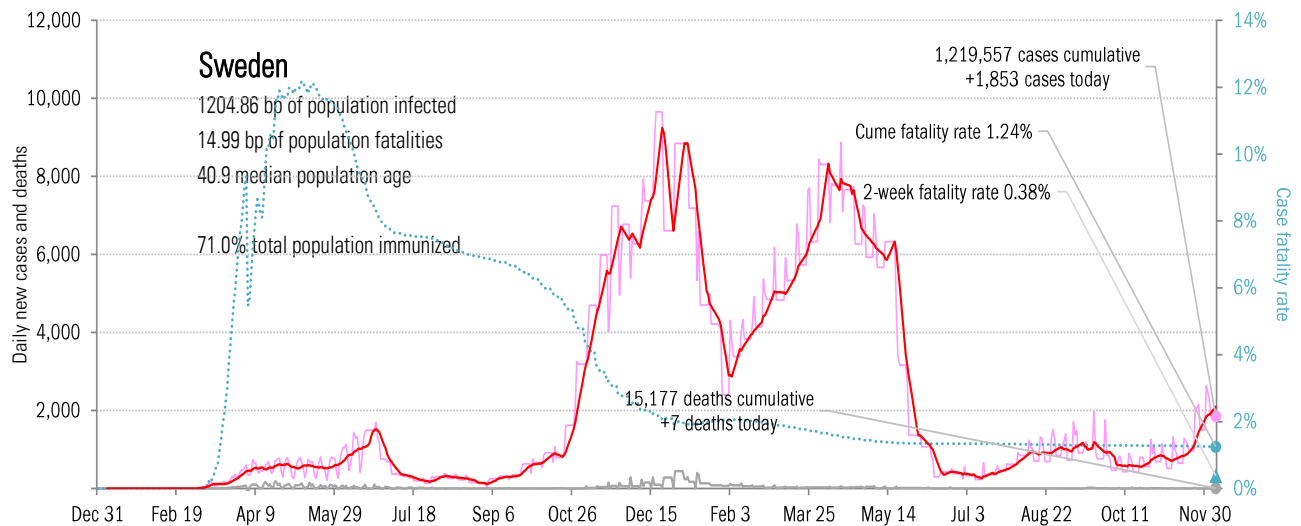
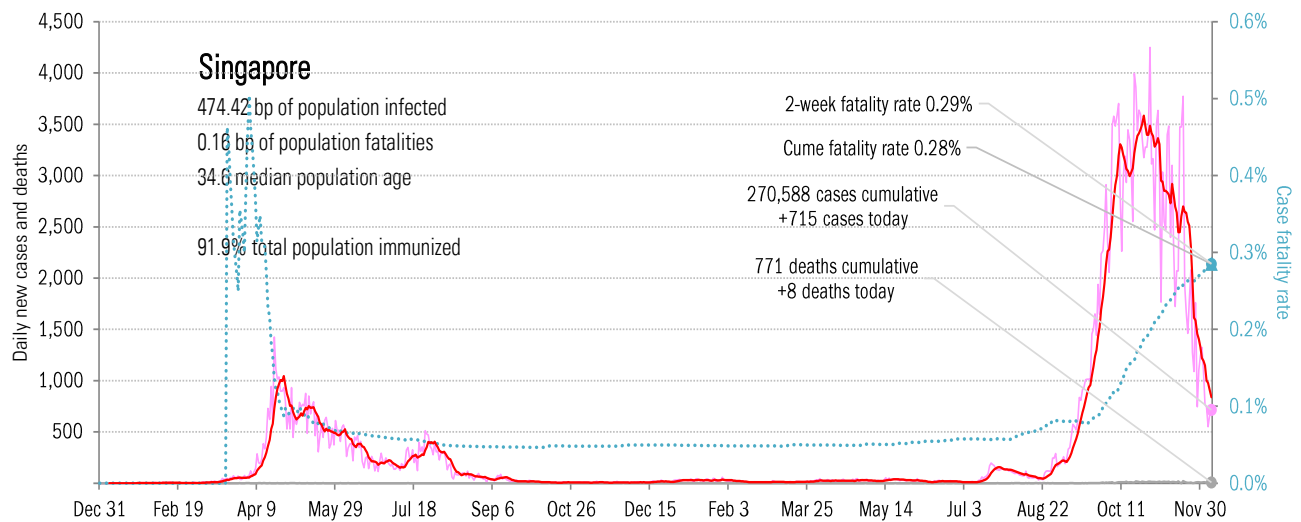
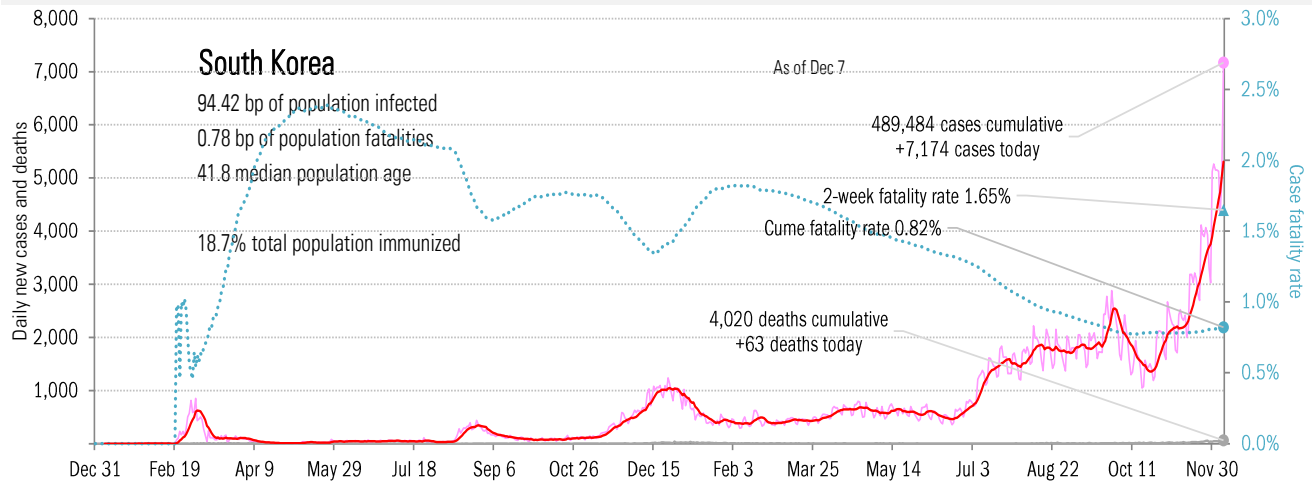
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

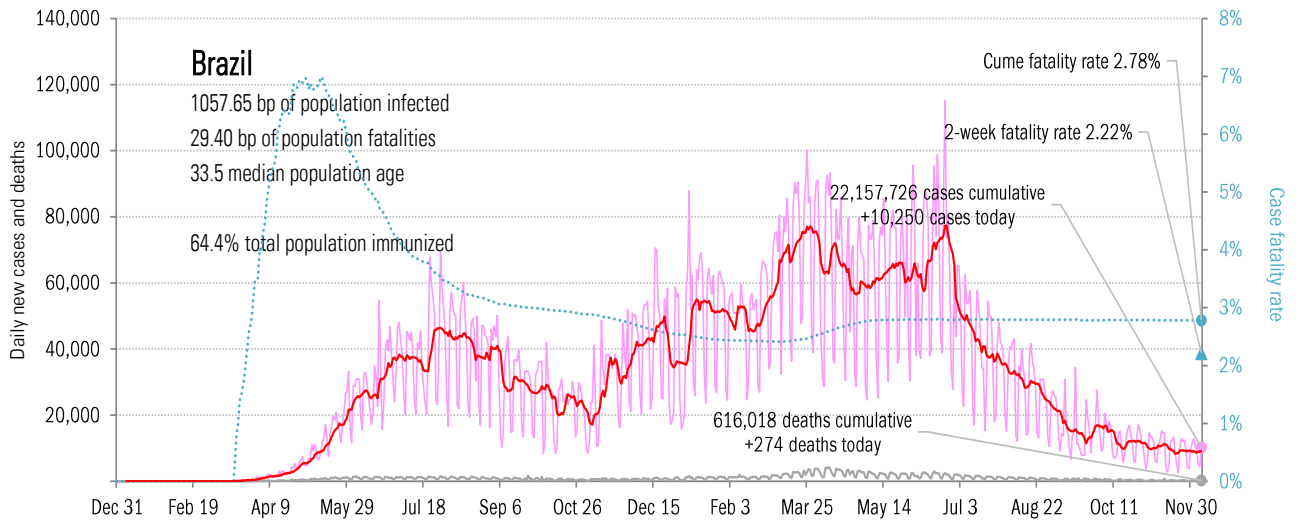
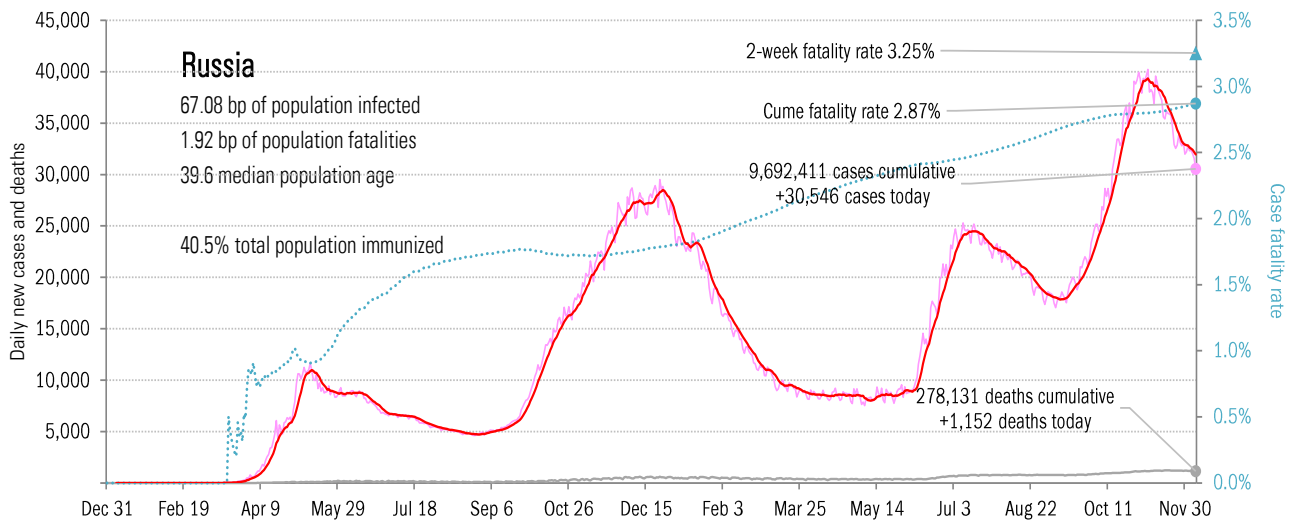
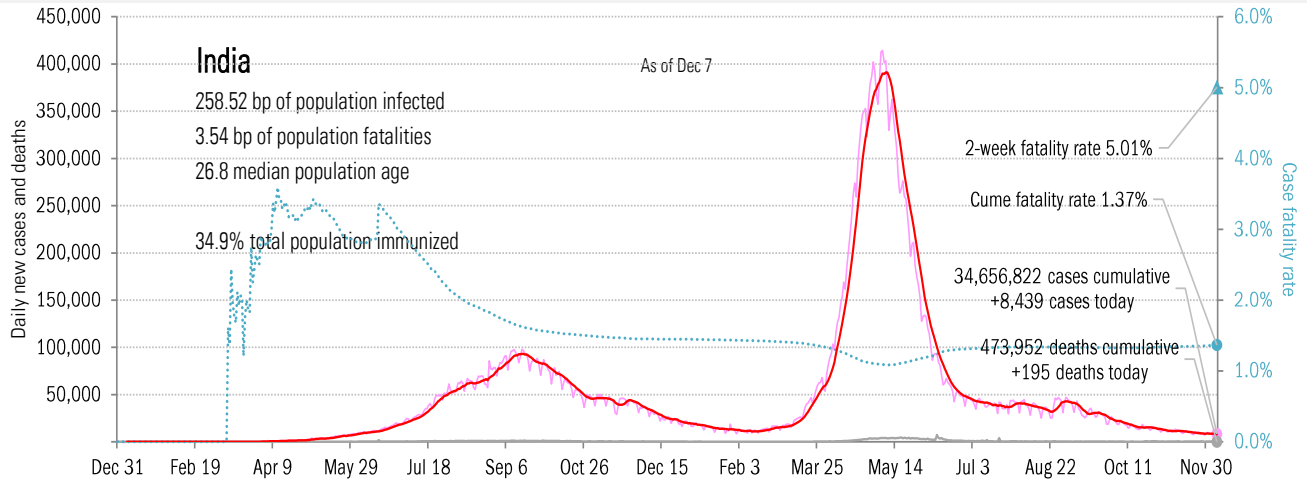
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

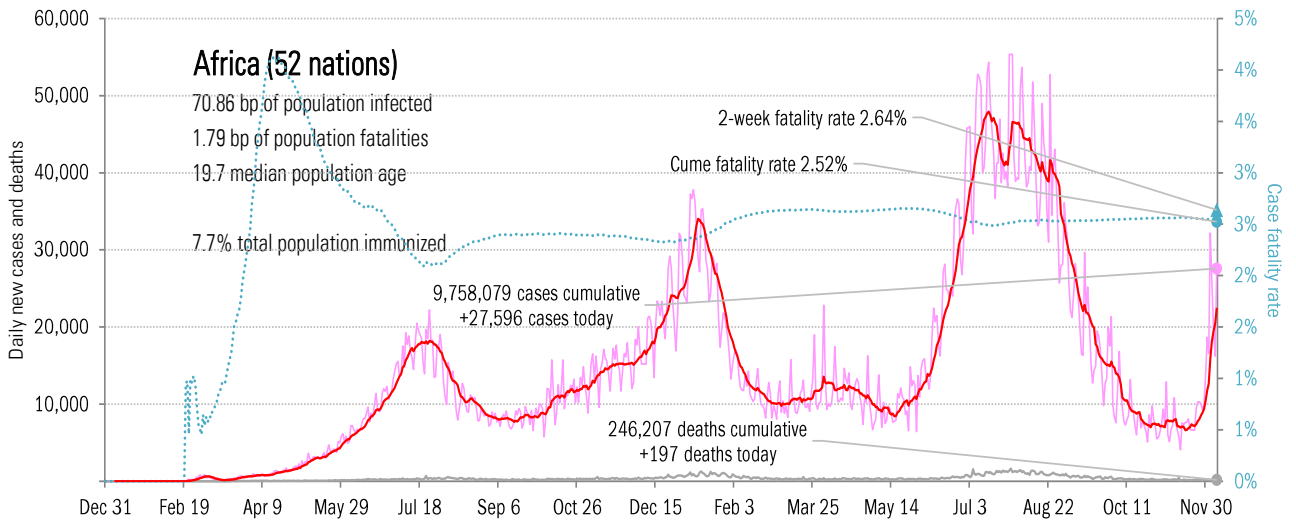
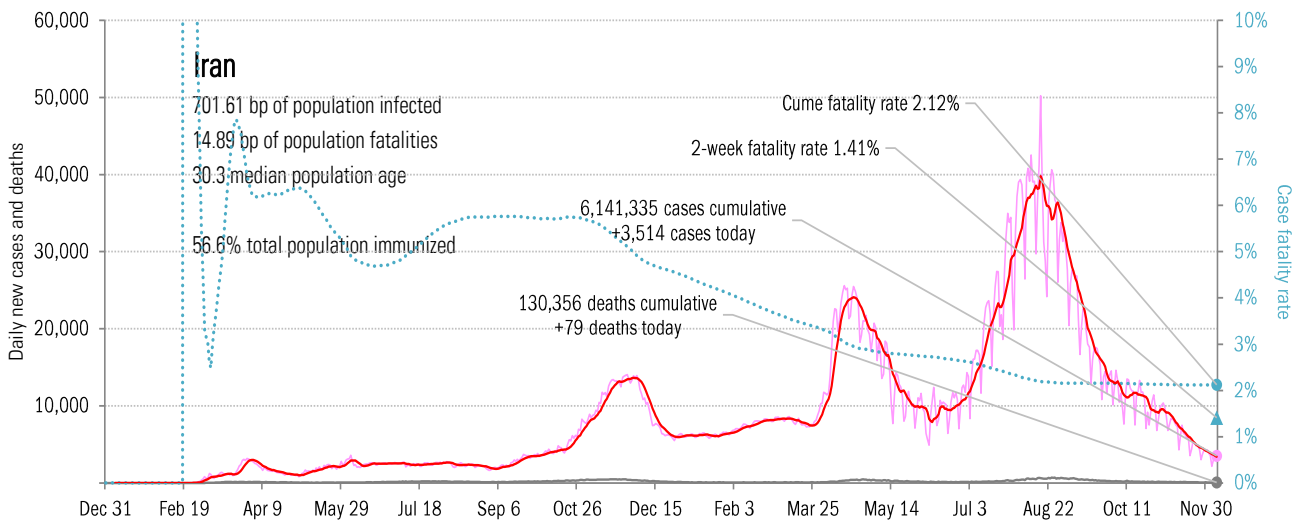
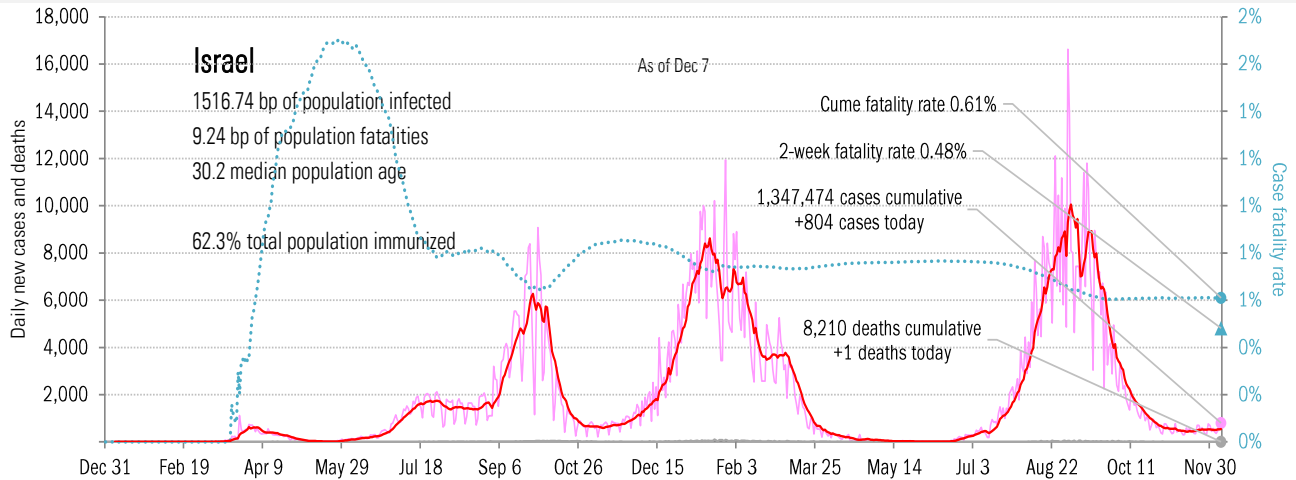
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

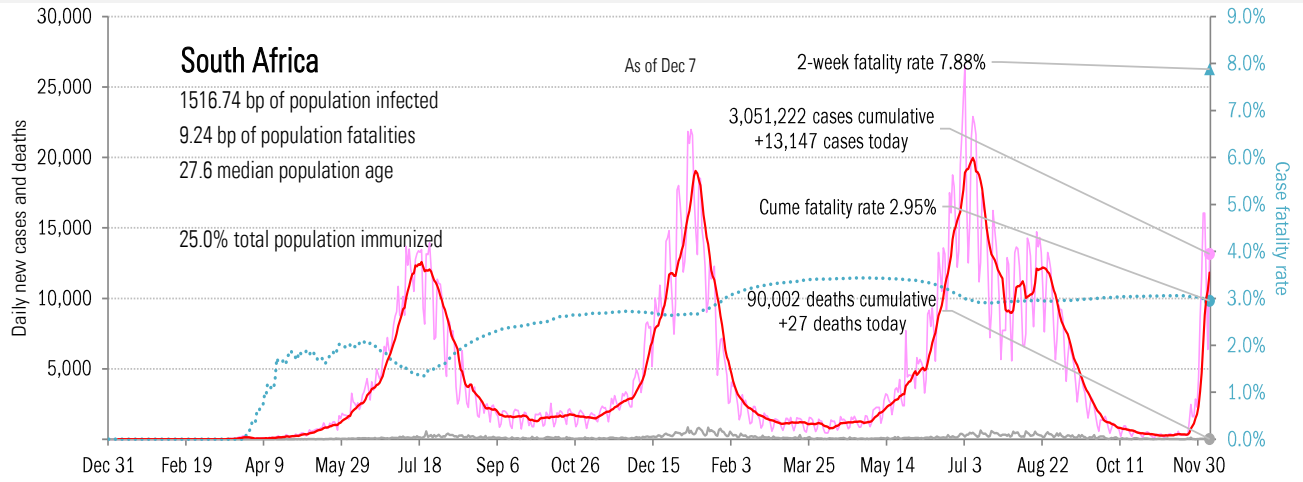
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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