

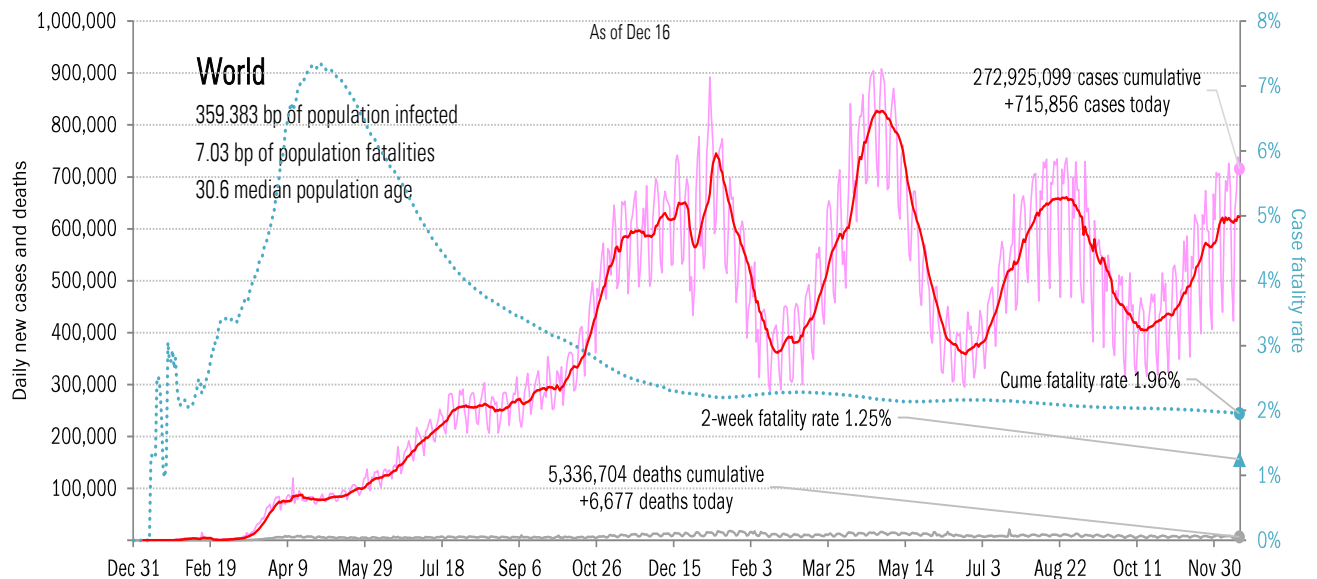
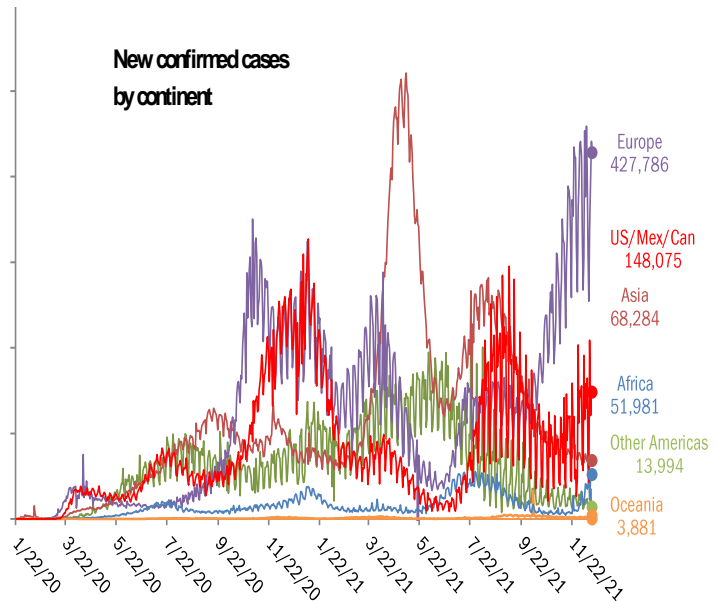
## Data Insights: Covid-2019 Monitor

Friday, December 17, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+140,740	Russia	+1,105
United Kingdom	+88,042	United States	+1,051
France	+60,905	Poland	+592
Germany	+51,400	Germany	+448
Vietnam	+34,062	India	+391
Spain	+28,900	Ukraine	+383
Russia	+28,158	Vietnam	+241
Italy	+26,104	France	+188
South Africa	+24,785	United Kingdom	+147
Poland	+22,096	Hungary	+144
<b>+505,192</b>		<b>+4,690</b>	
World	+715,856	World	+6,677
Top ten	71%	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

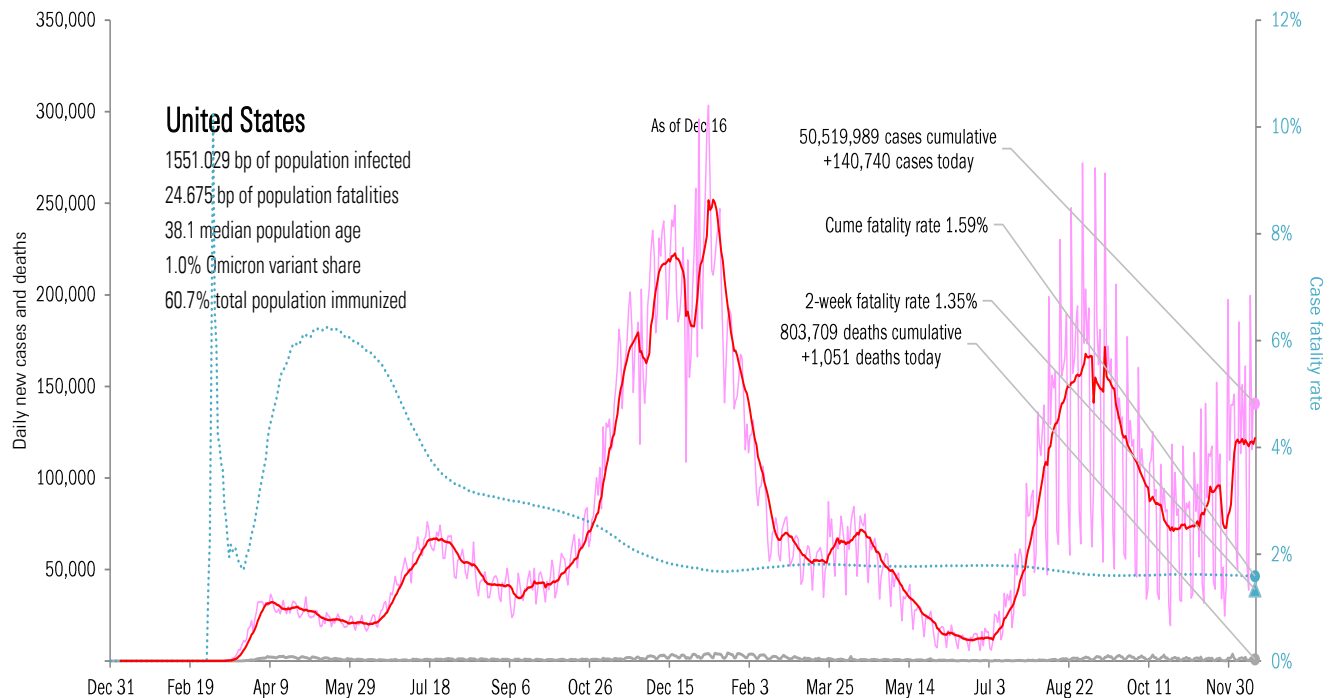
## The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
NY	+17,904		PA	+105		GA	+83		CA	5,191,014		CA	75,603		TX	390,898		MA	88%	KY	94%
IL	+11,858		TX	+101		IL	+64		TX	4,412,497		TX	74,897		CA	326,632		RI	88%	RI	92%
CH	+11,803		CA	+86		TX	+59		FL	3,760,603		FL	62,248		FL	326,614		AZ	86%	TX	91%
CA	+8,328		WI	+66		NY	+31		NY	2,899,469		NY	58,412		NY	180,063		PA	86%	NH	91%
PA	+7,689		CO	+61		FL	+26		IL	1,933,291		PA	35,095		GA	165,247		MI	86%	NM	90%
NJ	+7,223		IN	+60		MO	+19		PA	1,865,568		GA	30,911		CH	144,771		MD	85%	CK	89%
MA	+6,691		IL	+52		AL	+16		CH	1,819,342		IL	29,498		PA	135,289		WV	85%	NE	89%
TX	+5,879		NY	+44		KS	+14		GA	1,688,806		NJ	28,659		IL	117,465		MO	84%	MO	89%
WI	+5,568		MN	+39		WA	+12		MI	1,599,679		CH	27,594		KY	117,450		NH	84%	AK	89%
IN	+5,461		TN	+39		SC	+11		NC	1,585,074		MI	27,459		MI	111,519		ND	84%	AL	88%
<b>+88,404</b>			<b>+653</b>			<b>+335</b>			<b>26,755,343</b>			<b>450,376</b>			<b>2,015,948</b>						
All states	+140,740			+1,051			-164		All states	50,519,989			803,709			3,638,376		All states	70%		67%
Top ten	63%			62%			-204%		Top ten	53%			56%			55%		Median	79%		82%

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MI	-14,382	MI	-379	CH	-210	FR	+50 bp
KS	-3,915	PA	-154	MI	-163	MP	+30 bp
FL	-2,852	IA	-130	NJ	-106	MT	+30 bp
IA	-2,747	FL	-122	VA	-90	TN	+30 bp
NM	-1,349	MO	-100	PA	-84	UT	+30 bp

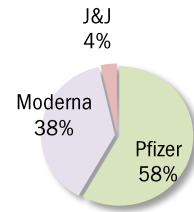


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	503,035,116	+1.764 million	US	60.7%	72.4%
Boosters	58,017,620	+1.036 million	UK	68.7%	75.3%
	<b>One dose</b>	<b>% Pop</b>	<b>Immune</b>	<b>% pop</b>	<b>New immune today</b>
Total population	246,258,497	74%	208,279,746	62%	+0.316 million
Age 12 to 17	14,955,474	63%	12,563,272	53%	+0.017 million
Age 18 to 64	166,646,709	82%	142,155,281	70%	+0.110 million
Age 65 and over	57,904,578	100%	49,484,518	90%	+0.023 million

France	71.6%	77.6%
Spain	80.8%	82.6%
Germany	69.3%	72.3%
Italy	73.5%	79.1%
Australia	75.5%	78.7%
Israel	62.6%	69.3%
Canada	76.9%	82.3%
Japan	77.9%	79.4%
Africa	8.4%	12.9%
India	38.3%	59.1%
Brazil	66.0%	77.2%
China	80.5%	84.8%



**State**

At least partial immunity as % population

Full immunity as % population

Best

Middle

Worst

Every American >18 immunized in **67 days** by Feb 20, 2022

74.1% of population >18 immunized

17.8% previously tested positive

**91.8%** vs 60% adult herd immunity

Global data differs due to sources, timing

**AK**

64.3%

55.8%

**WI**

67.2%

61.2%

**ME**

84.3%

74.8%

As of Dec 16

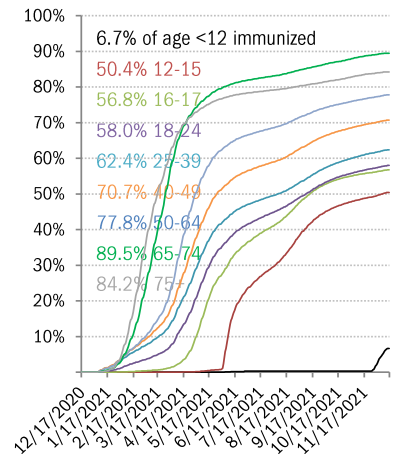
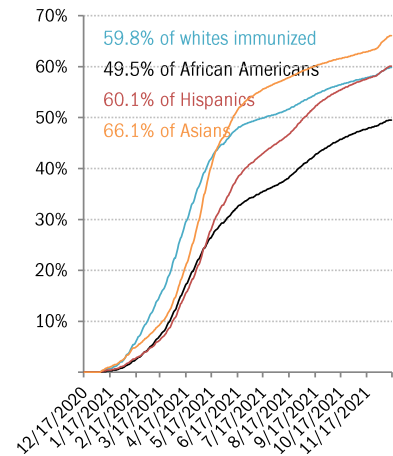
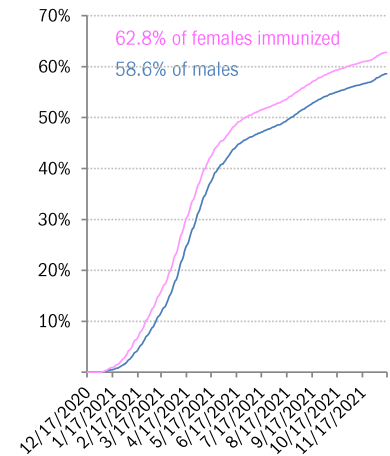
<b>WA</b> 74.5% 67.1%	<b>ID</b> 51.6% 45.9%	<b>MT</b> 61.3% 53.4%	<b>ND</b> 61.3% 51.8%	<b>MN</b> 70.5% 64.6%	<b>IL</b> 70.7% 63.3%	<b>MI</b> 62.5% 56.1%	<b>NY</b> 81.6% 70.7%	<b>VT</b> 87.7% 76.0%	<b>NH</b> 93.7% 66.2%	
<b>OR</b> 73.0% 65.7%	<b>NV</b> 68.1% 55.7%	<b>WY</b> 55.1% 46.9%	<b>SD</b> 69.4% 56.2%	<b>IA</b> 63.9% 58.3%	<b>IN</b> 57.0% 51.6%	<b>OH</b> 59.7% 54.6%	<b>PA</b> 84.3% 60.5%	<b>NJ</b> 81.7% 69.6%	<b>MA</b> 88.5% 73.6%	
<b>CA</b> 81.1% 65.2%	<b>UT</b> 66.4% 57.7%	<b>CO</b> 73.3% 65.3%	<b>NE</b> 65.4% 59.0%	<b>MO</b> 61.4% 52.4%	<b>KY</b> 61.6% 53.6%	<b>WV</b> 89.5% 71.4%	<b>VA</b> 77.5% 67.1%	<b>MD</b> 78.8% 69.6%	<b>CT</b> 86.6% 73.9%	<b>RI</b> 86.4% 75.3%
	<b>AZ</b> 66.1% 56.2%	<b>NM</b> 79.1% 65.4%	<b>KS</b> 68.0% 56.2%	<b>AR</b> 61.8% 50.5%	<b>TN</b> 58.0% 50.8%	<b>NC</b> 73.8% 55.9%	<b>SC</b> 61.7% 52.5%	<b>DC</b> 85.5% 66.5%	<b>DE</b> 75.3% 63.3%	
			<b>OK</b> 64.7% 52.8%	<b>LA</b> 56.6% 49.7%	<b>MS</b> 55.1% 48.0%	<b>AL</b> 57.7% 47.0%	<b>GA</b> 60.2% 50.3%			
			<b>TX</b> 65.6% 56.2%					<b>FL</b> 73.3% 62.7%	<b>PR</b> 87.4% 76.1%	

**HI**

83.7%

62.6%

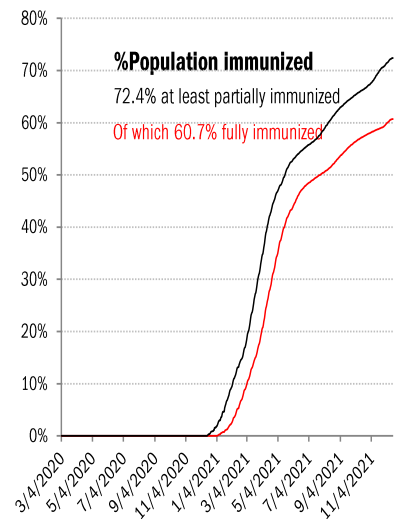
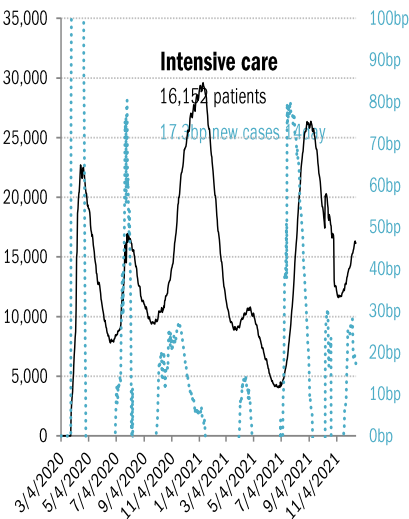
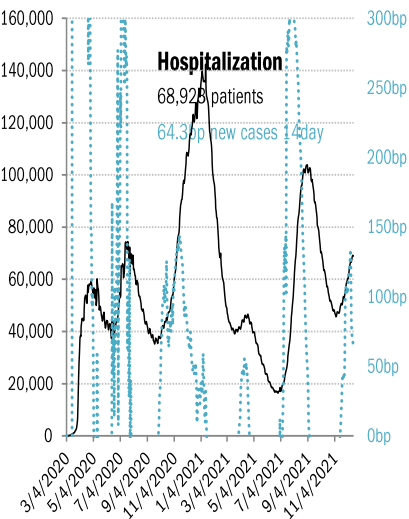
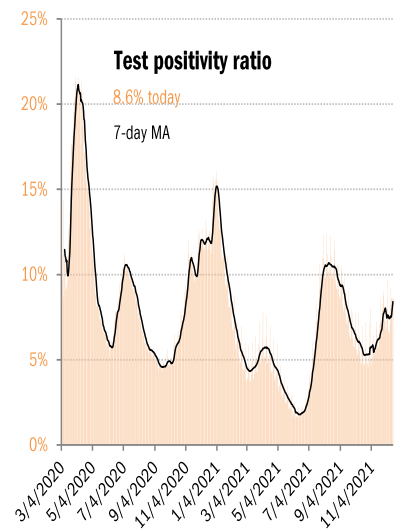
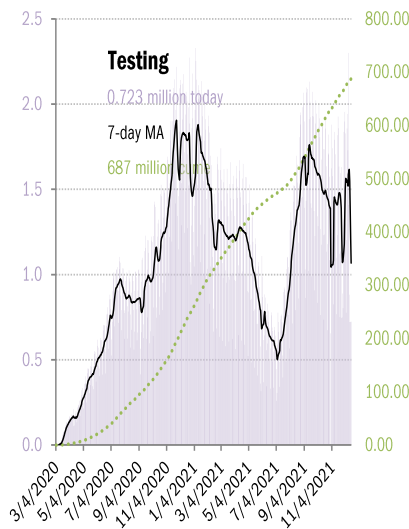
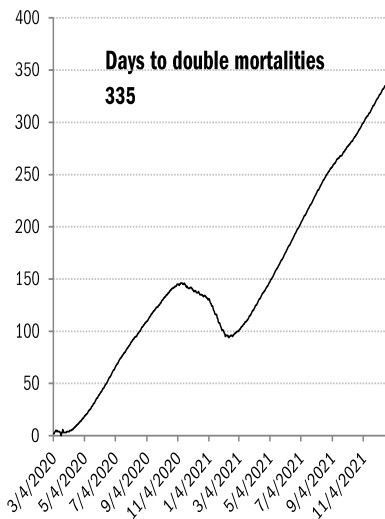
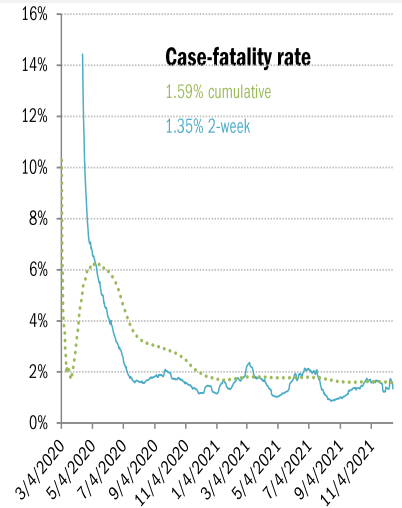
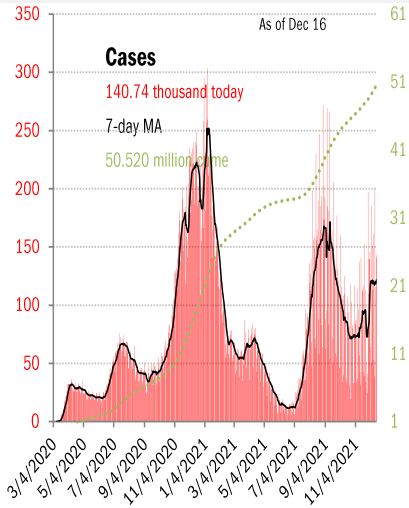
## The demographics of US vaccination



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

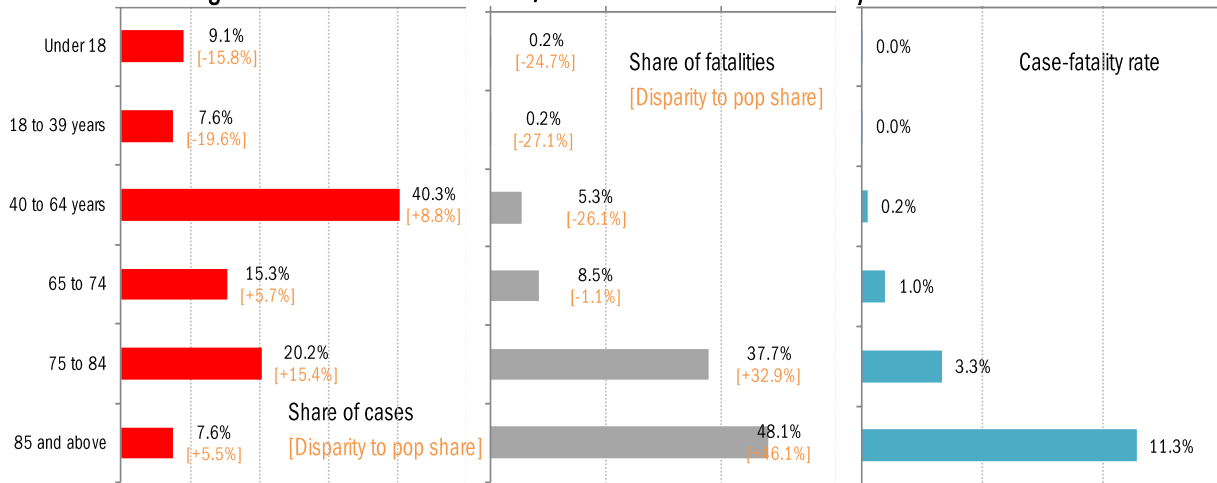
# US deep-dive

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

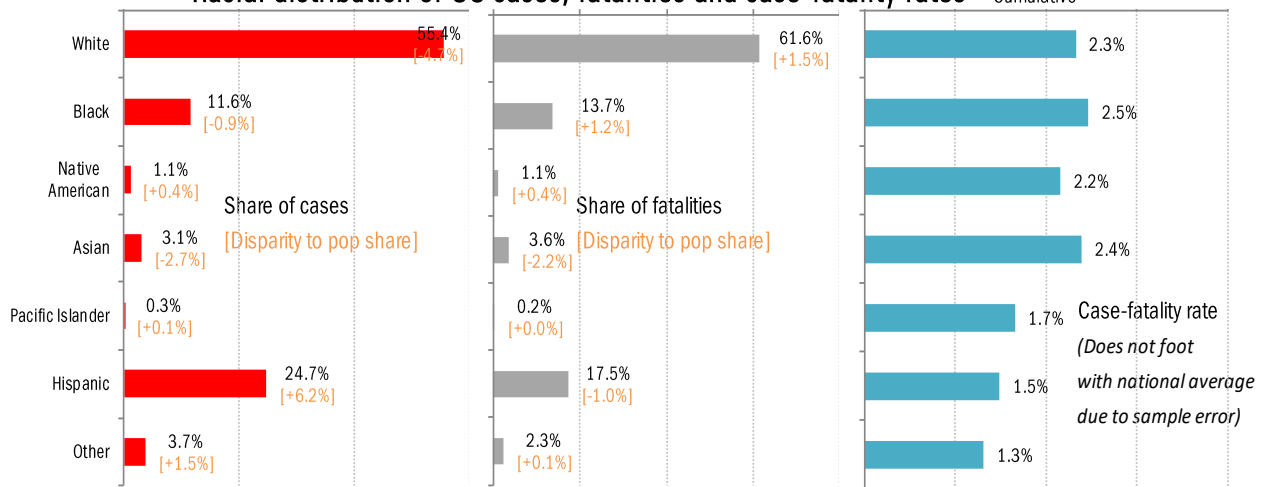


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

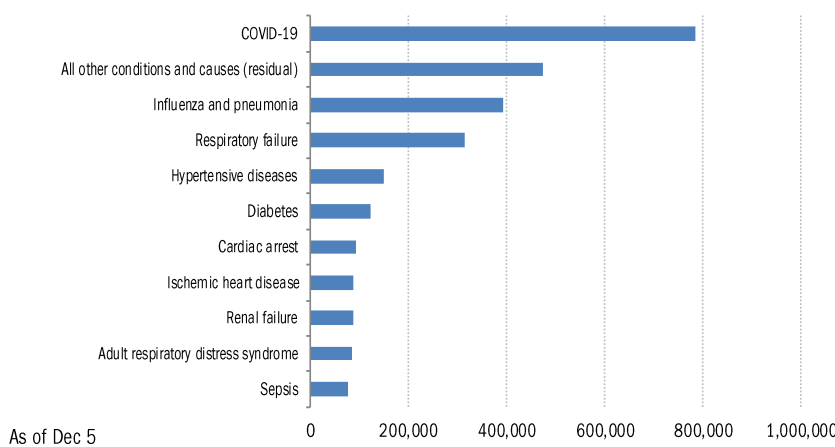


Racial distribution of US cases, fatalities and case-fatality rates



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

### [COVID Charts Quiz](#)

December 15, 2021

### [Two major airline CEOs question the need for masks on planes](#)

Chris Isidore  
*CNN Business*  
December 15, 2021

### [Omicron's Surge Is Turning London Into a Ghost Town](#)

Thomas Buckley and Deirdre Hipwell  
*Bloomberg*  
December 15, 2021

### [Twitter to Penalize Users Who Claim Vaccinated People Can Spread Covid-19](#)

Rudy Takala  
*Mediaite*  
December 14, 2021

### [US faces a double coronavirus surge as omicron advances](#)

Laura Ungar and Carla K. Johnson  
*Associated Press*  
December 16, 2021

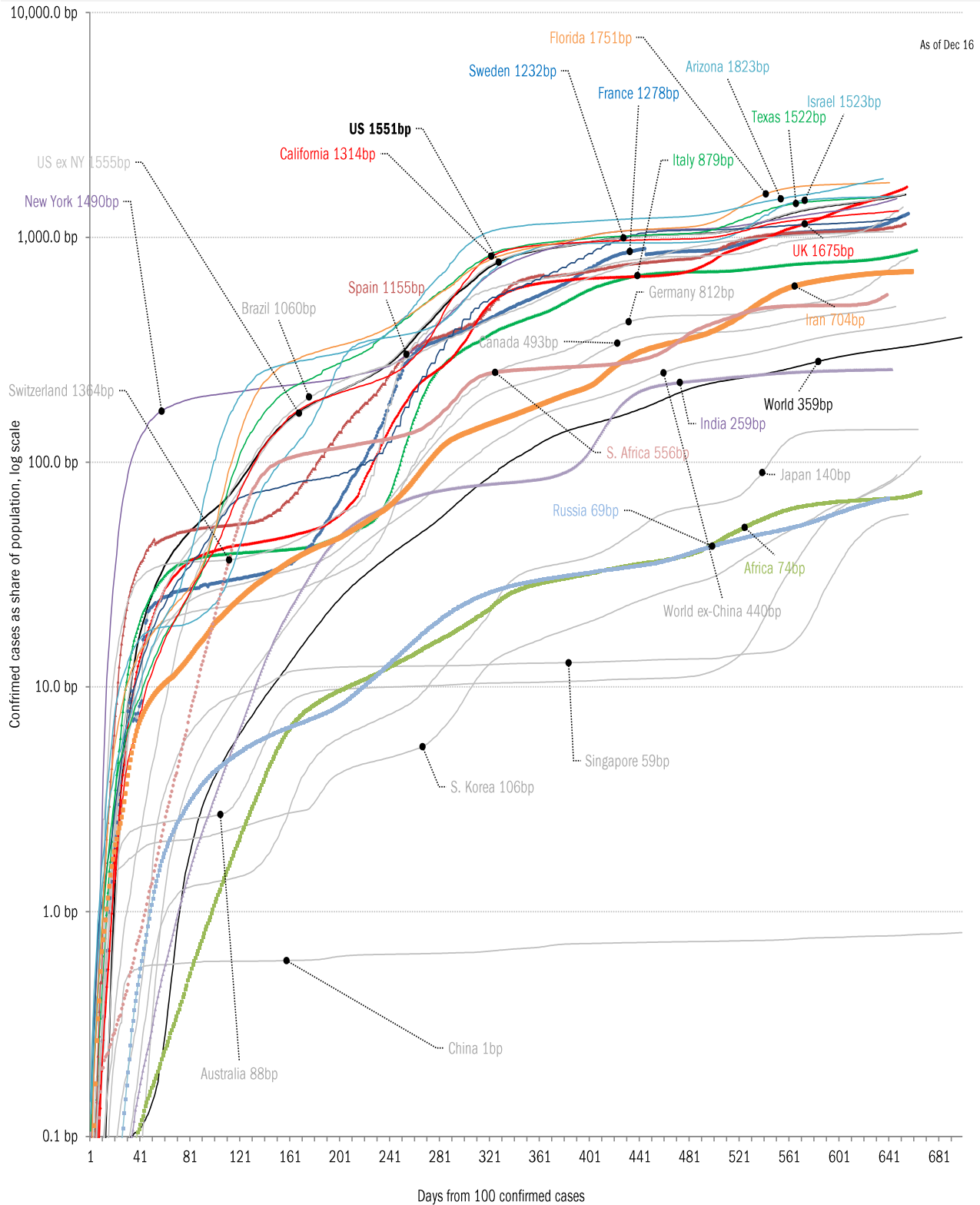
## Meme of the day



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

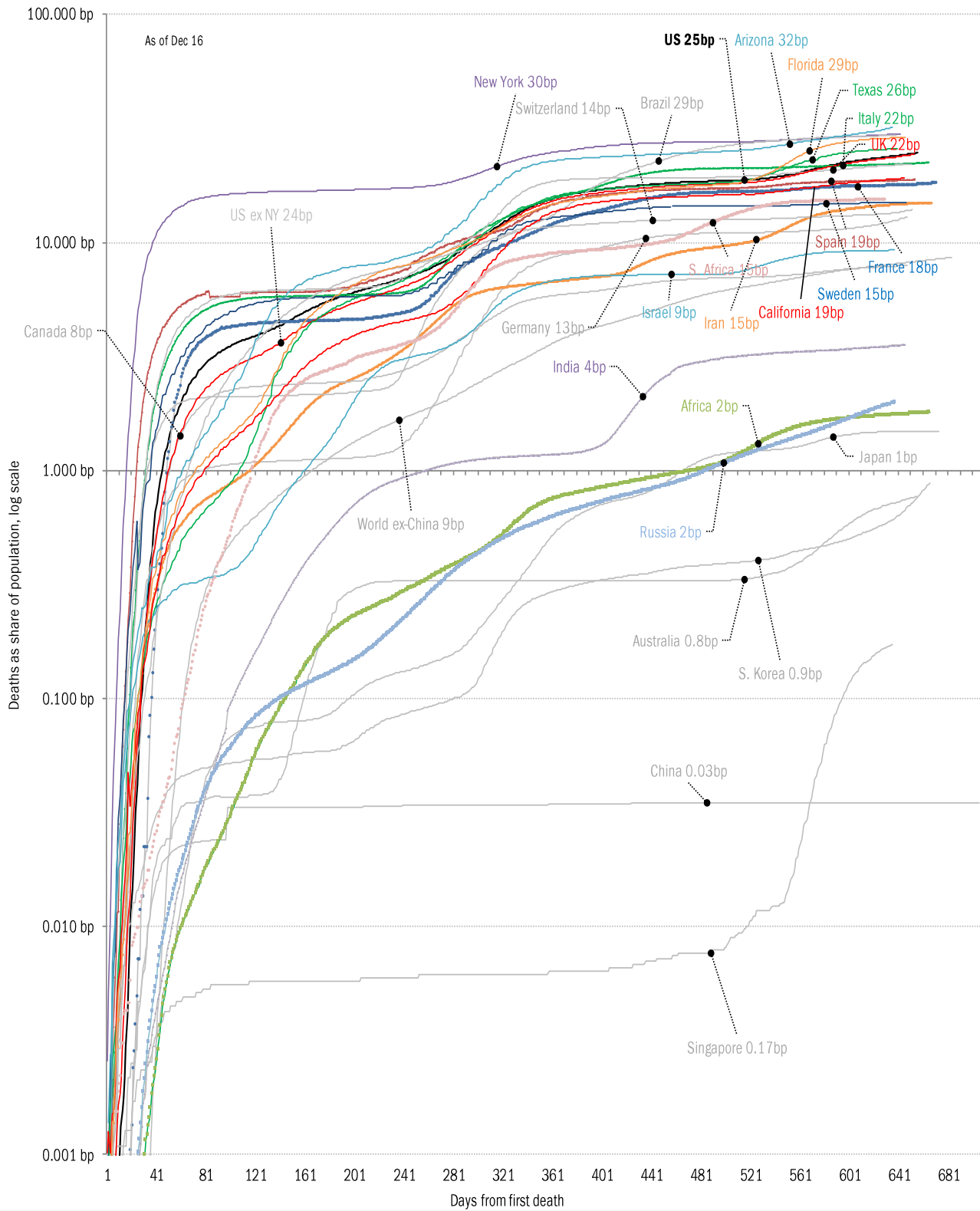


The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*



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*



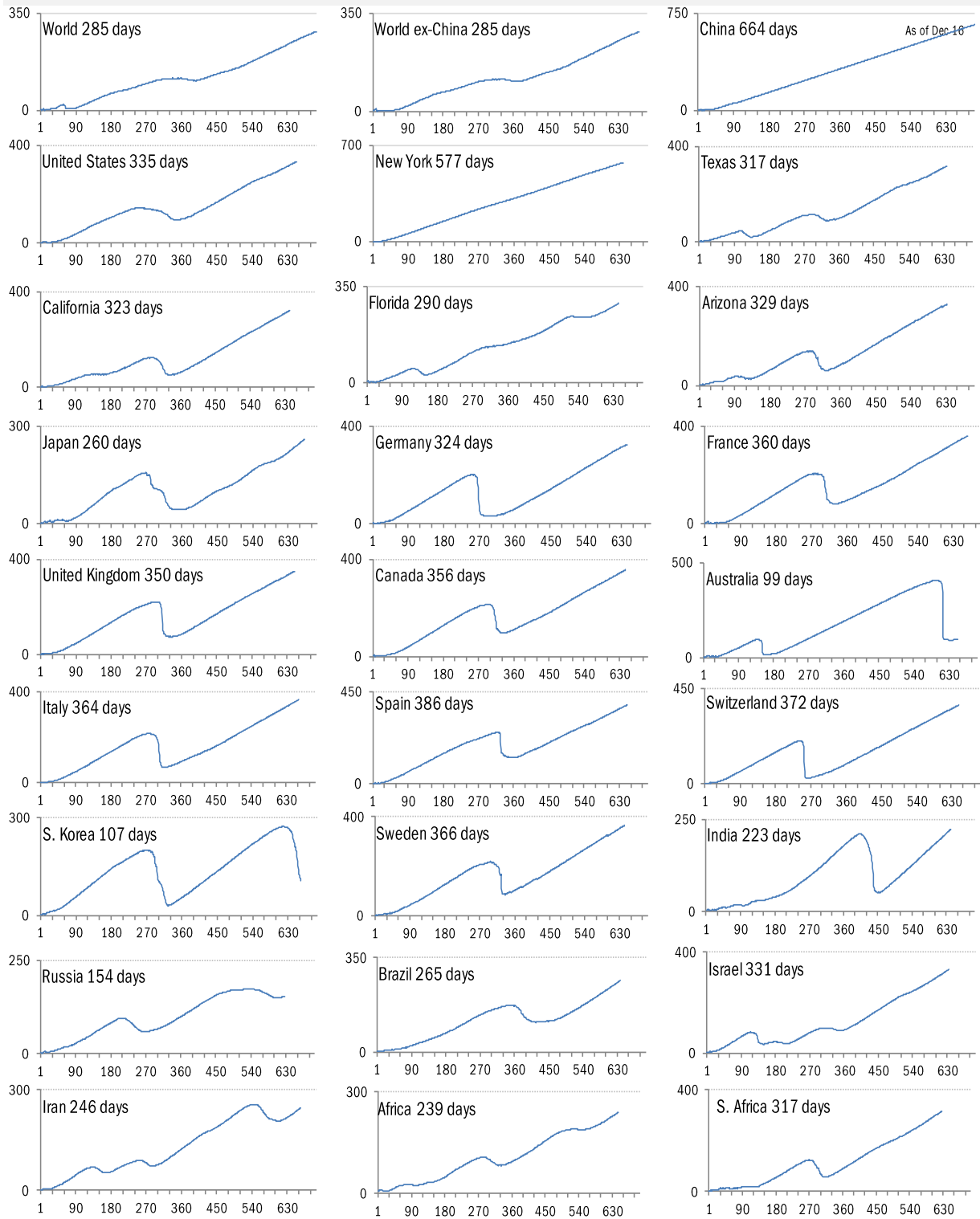
Source: [Johns Hopkins](#), TrendMacro calculations



# "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

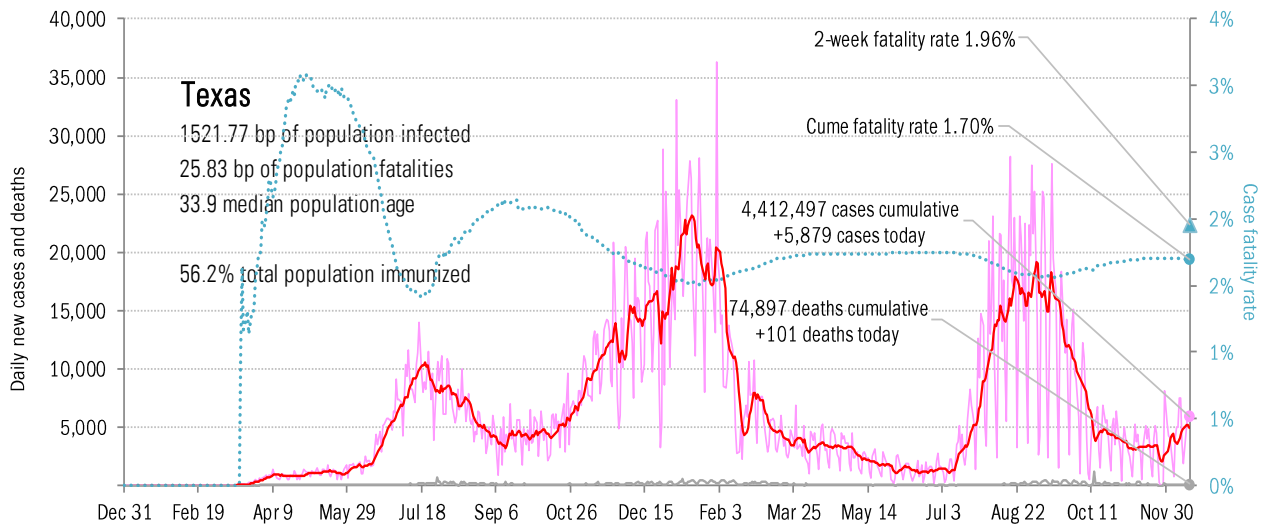
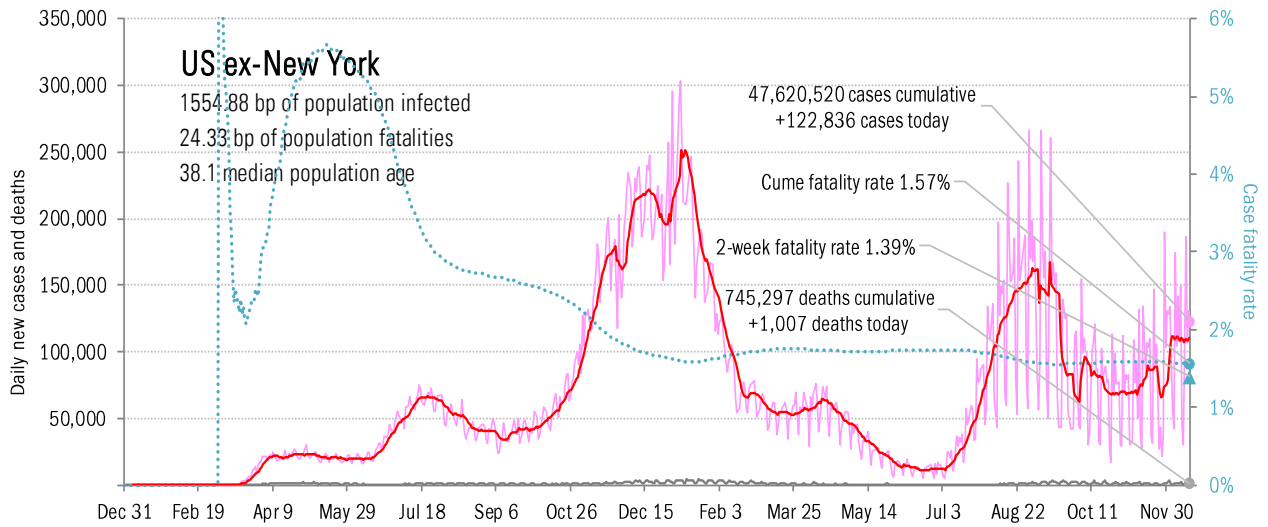
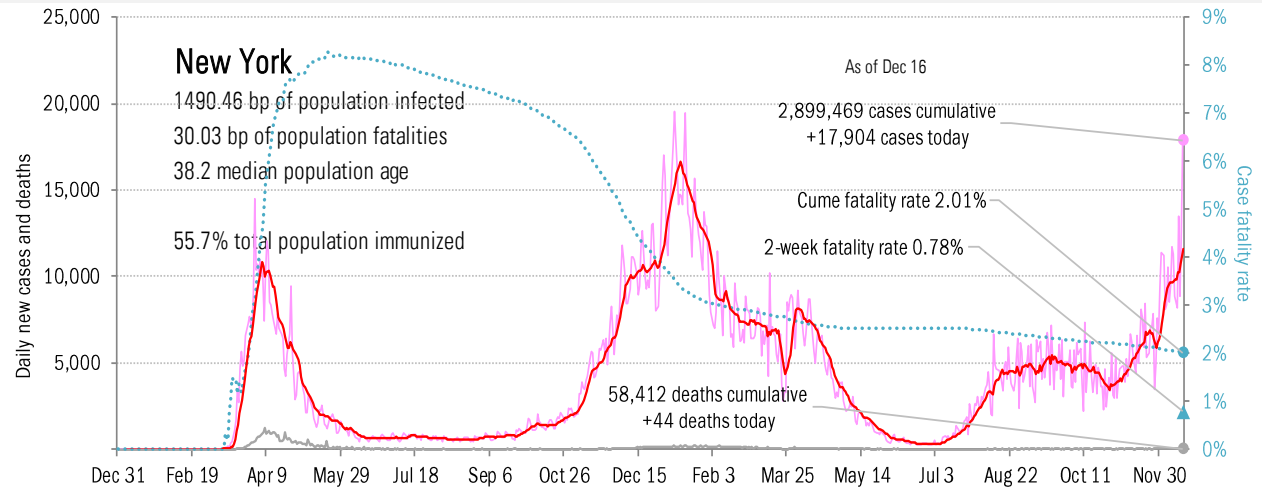
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

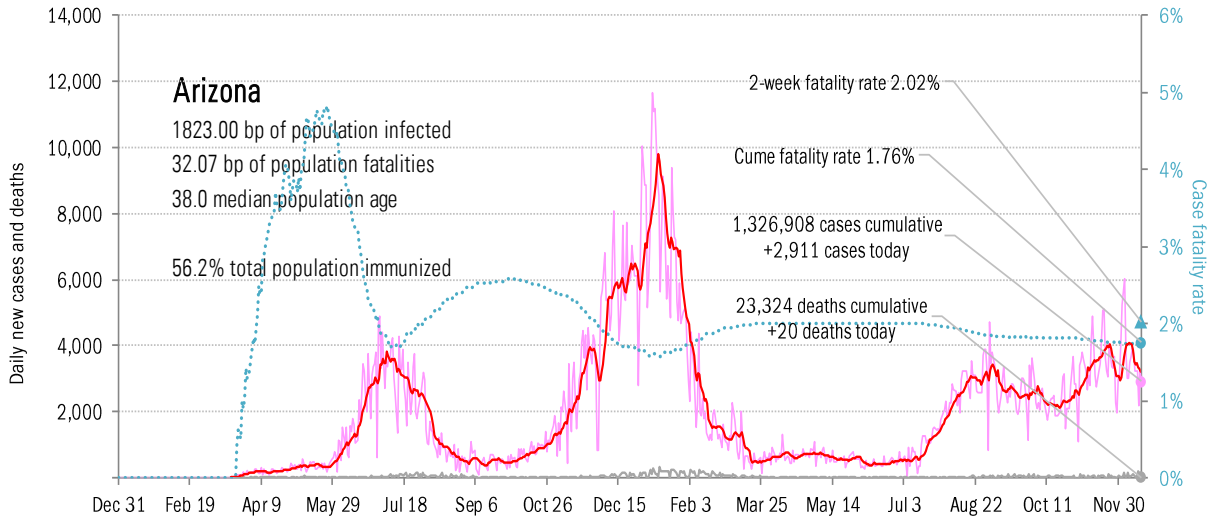
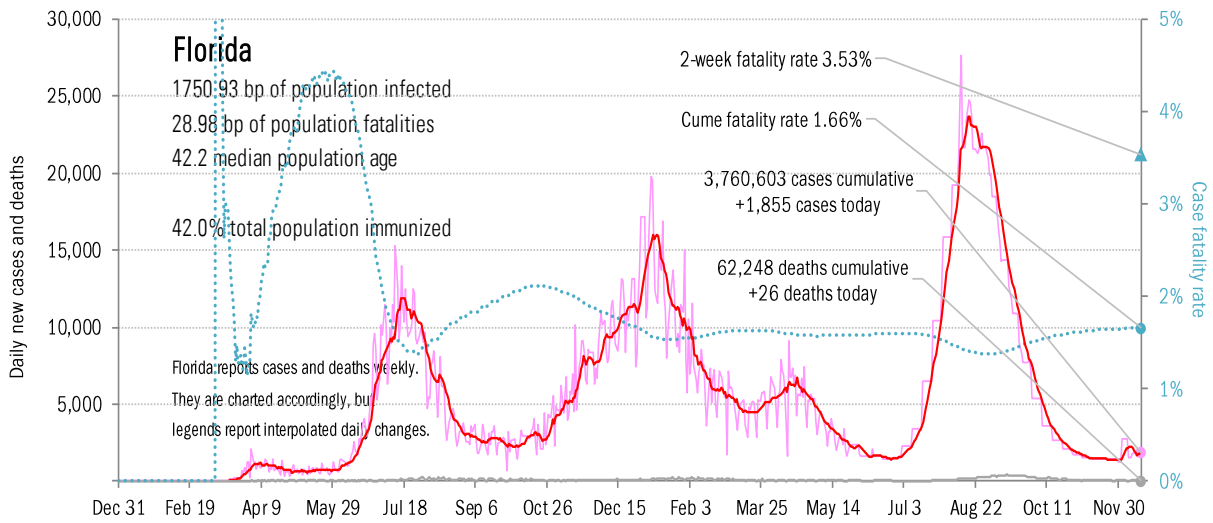
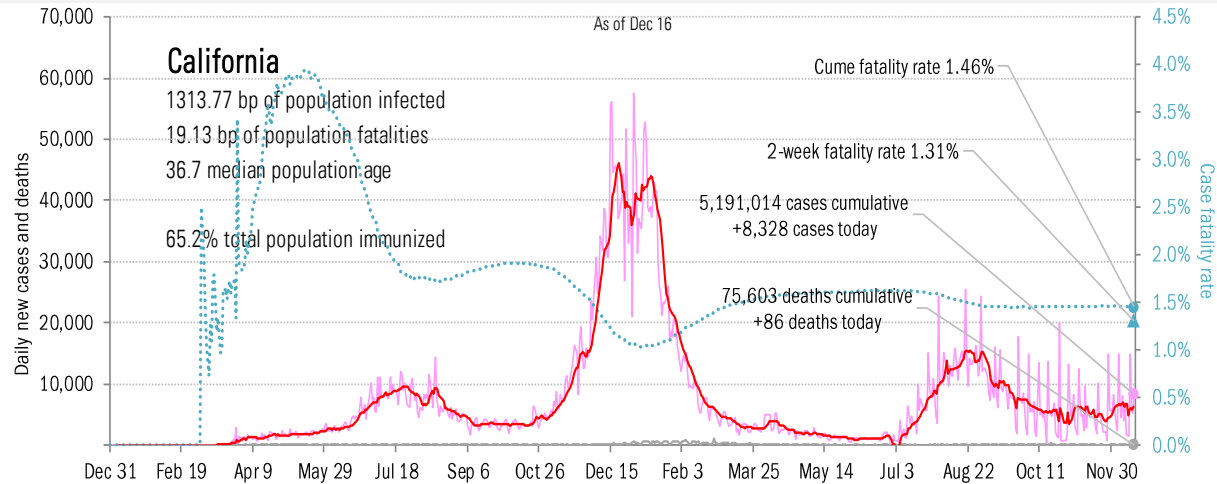
Cases: 7-day average and daily Deaths: Daily



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

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

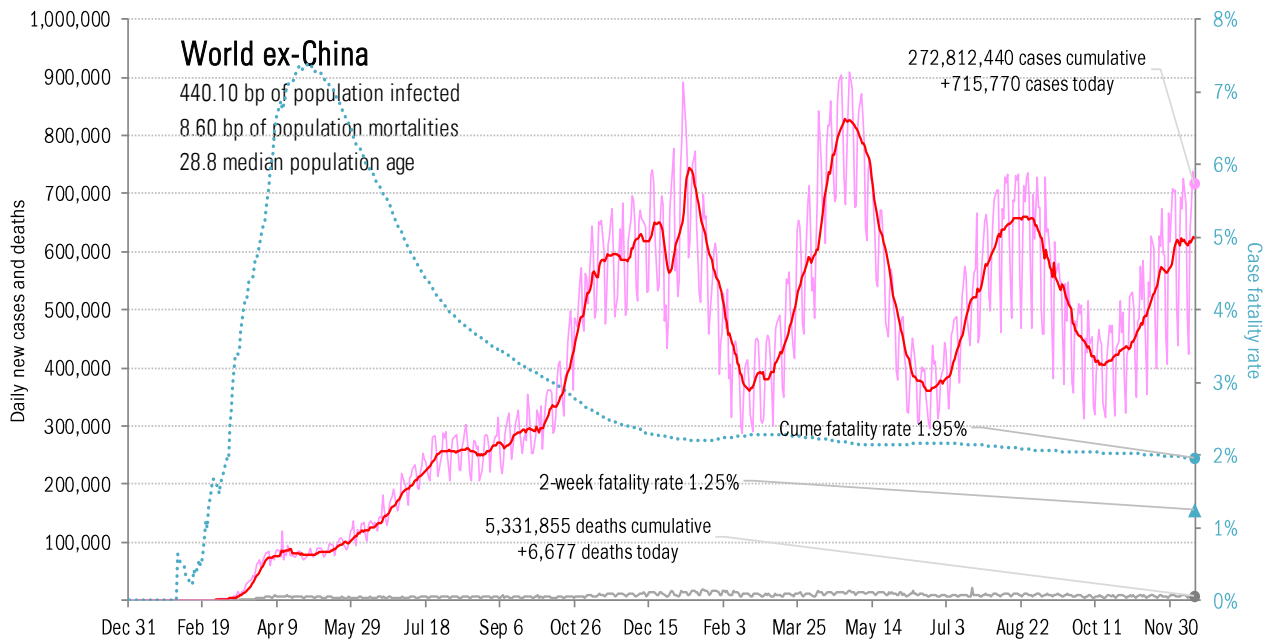
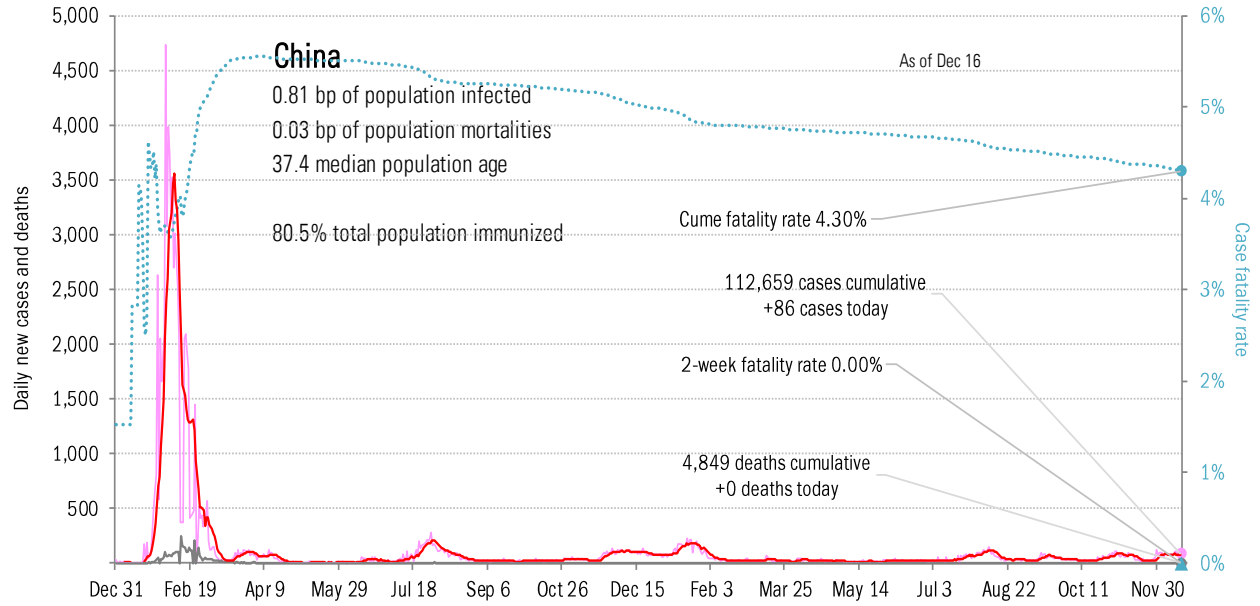
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

Cases: 7-day average and daily Deaths: Daily

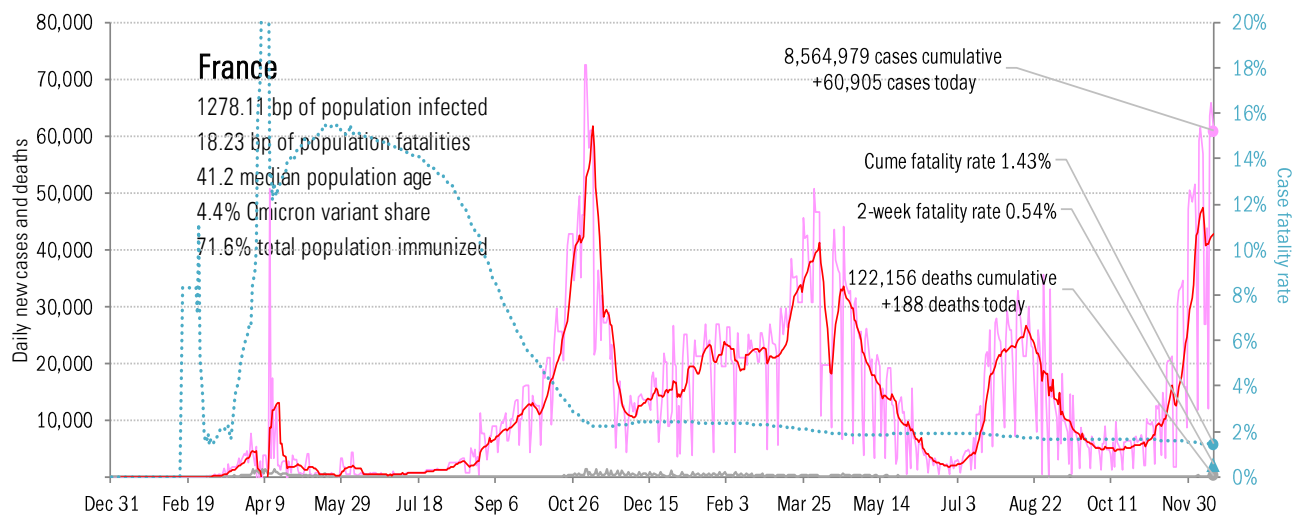
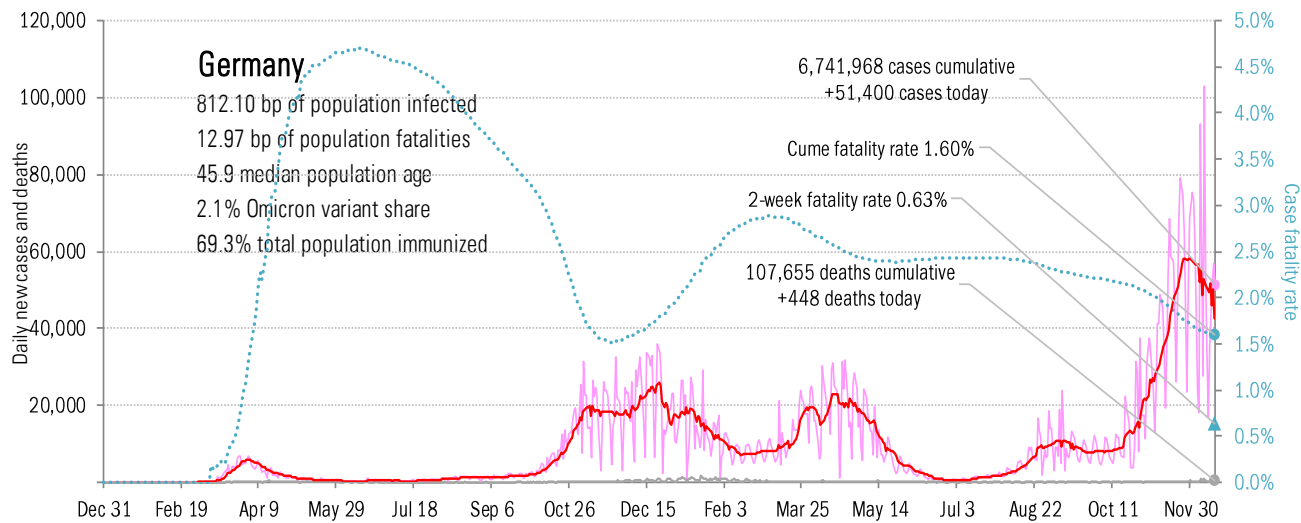
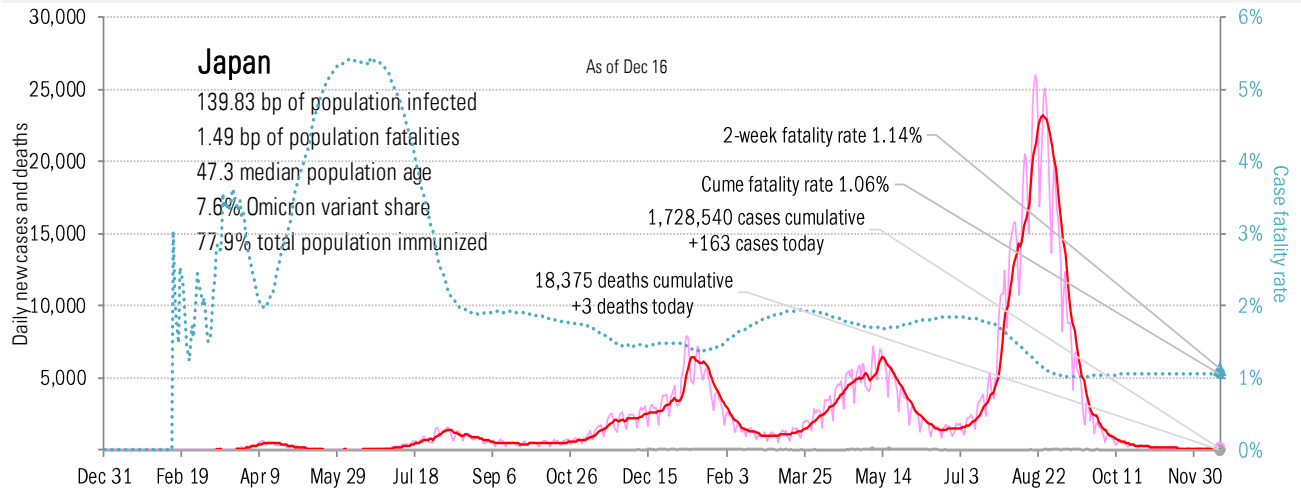


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in the largest economies

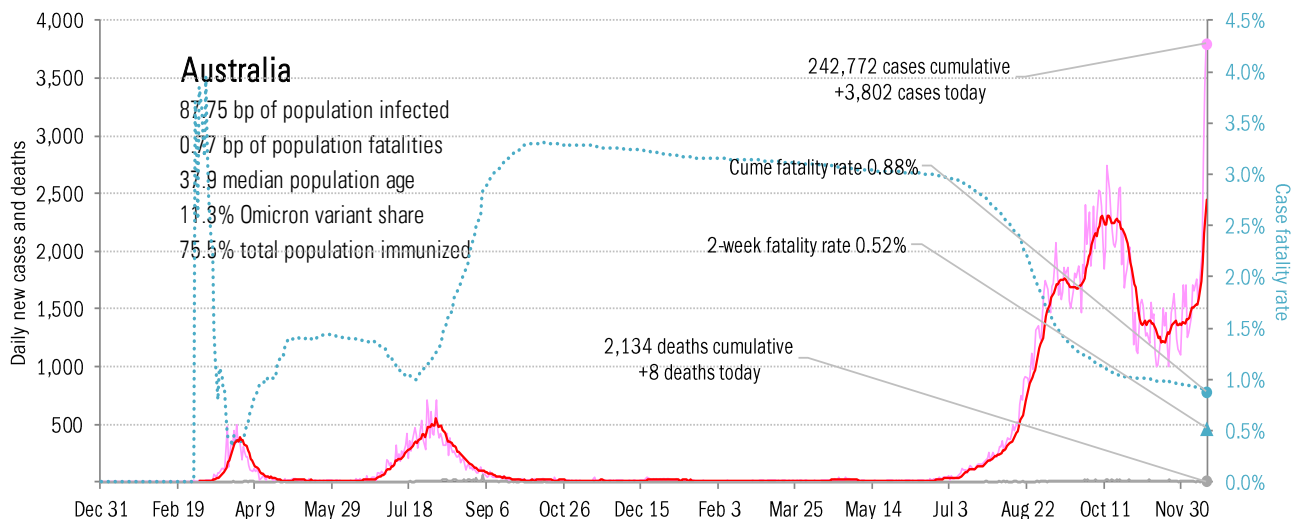
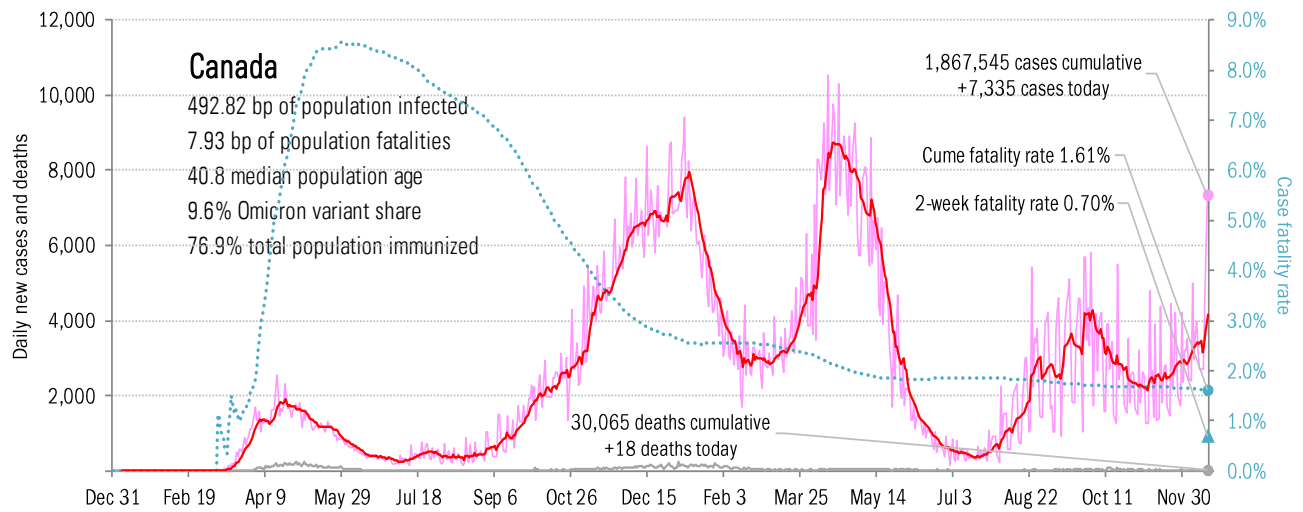
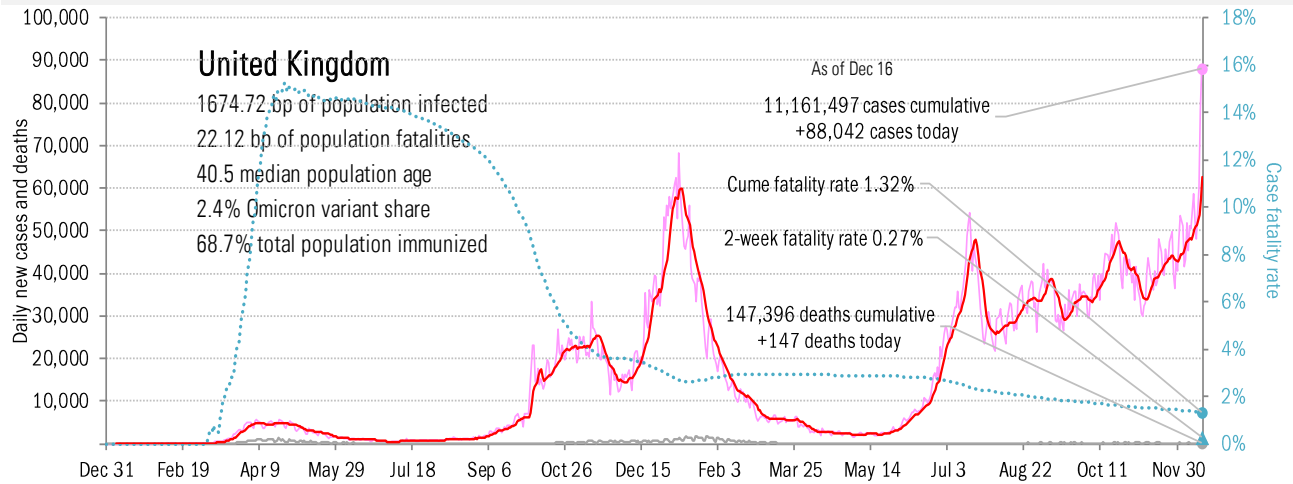
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

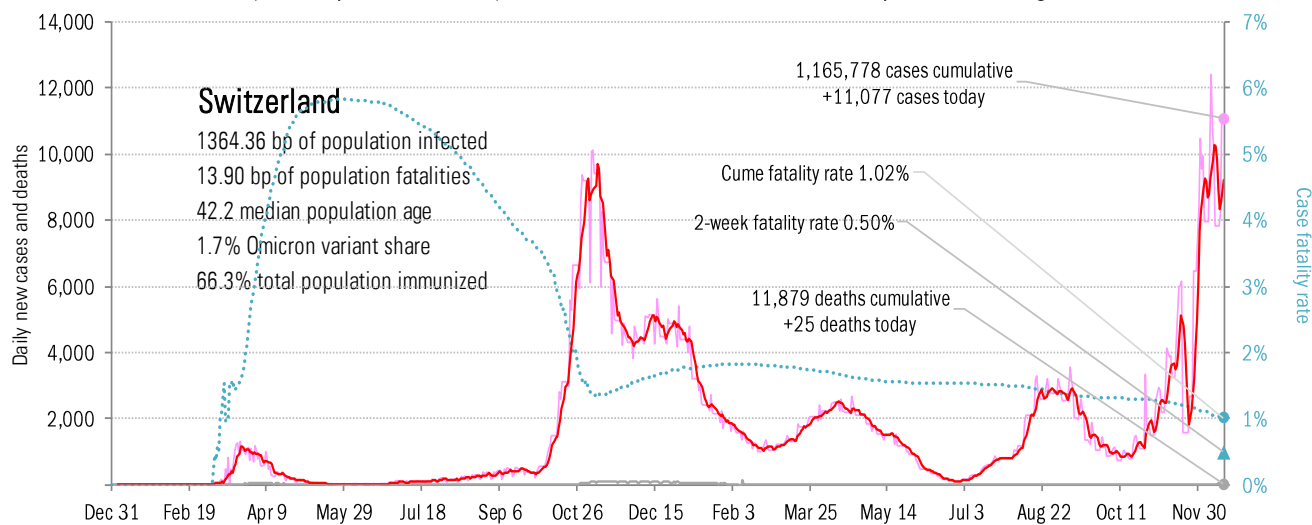
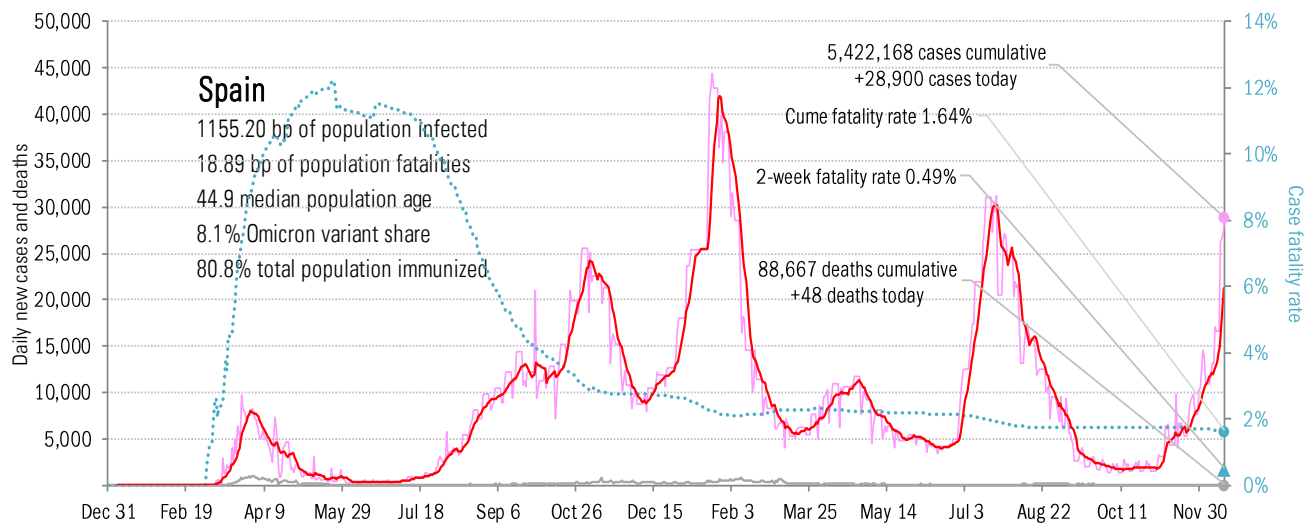
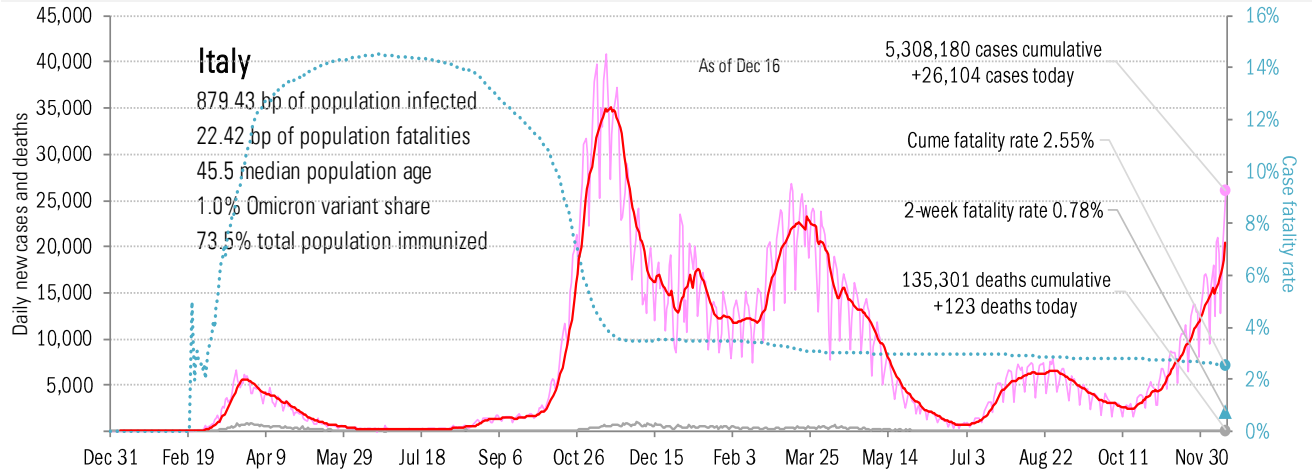
Cases: 7-day average and daily Deaths: Daily



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

# Impact in continental Europe

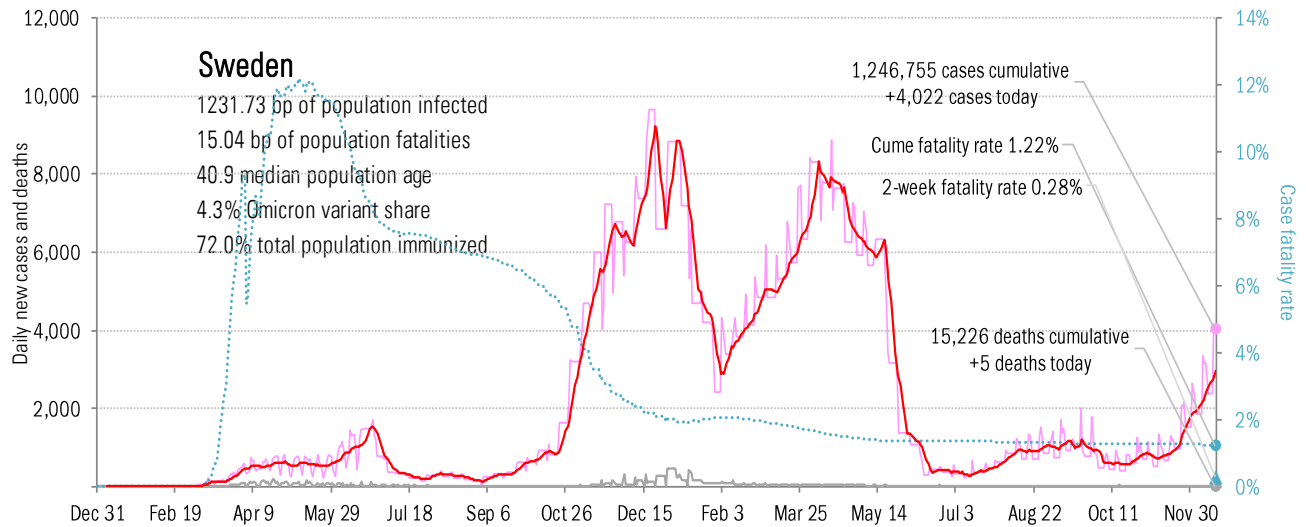
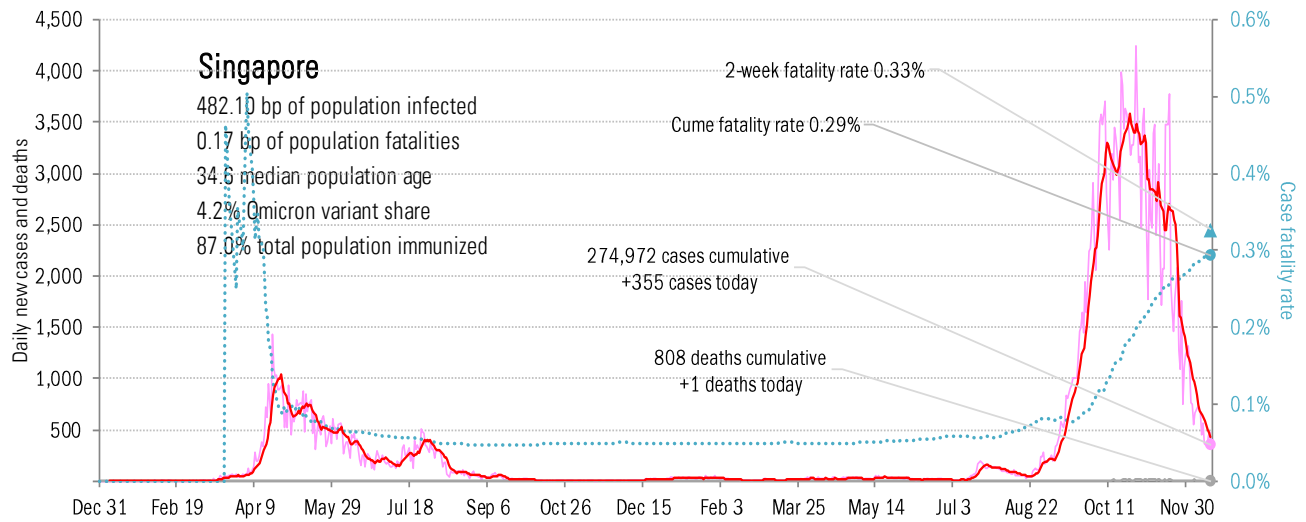
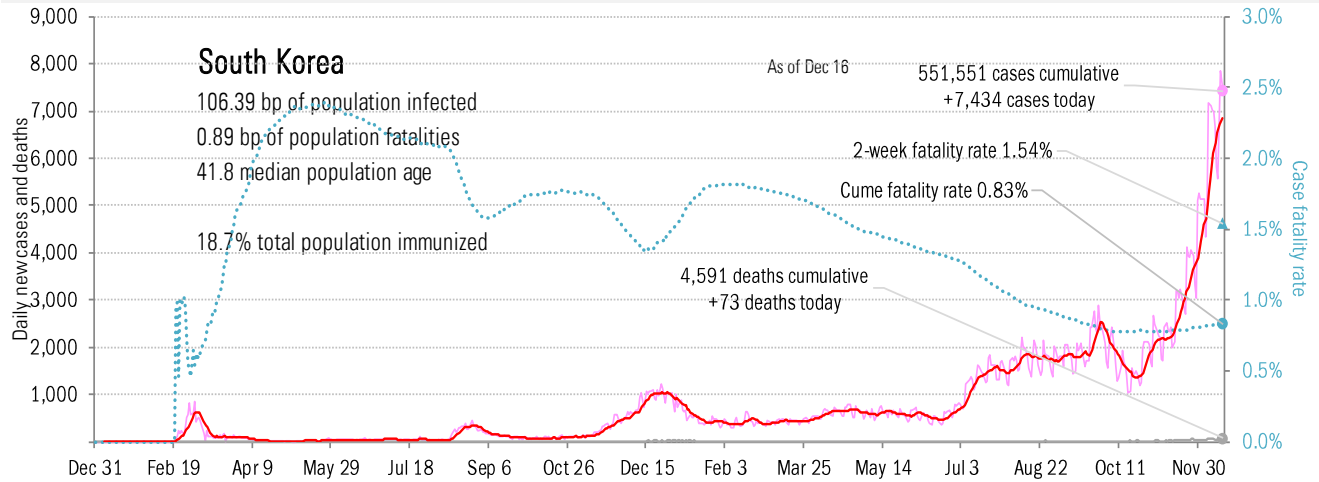
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

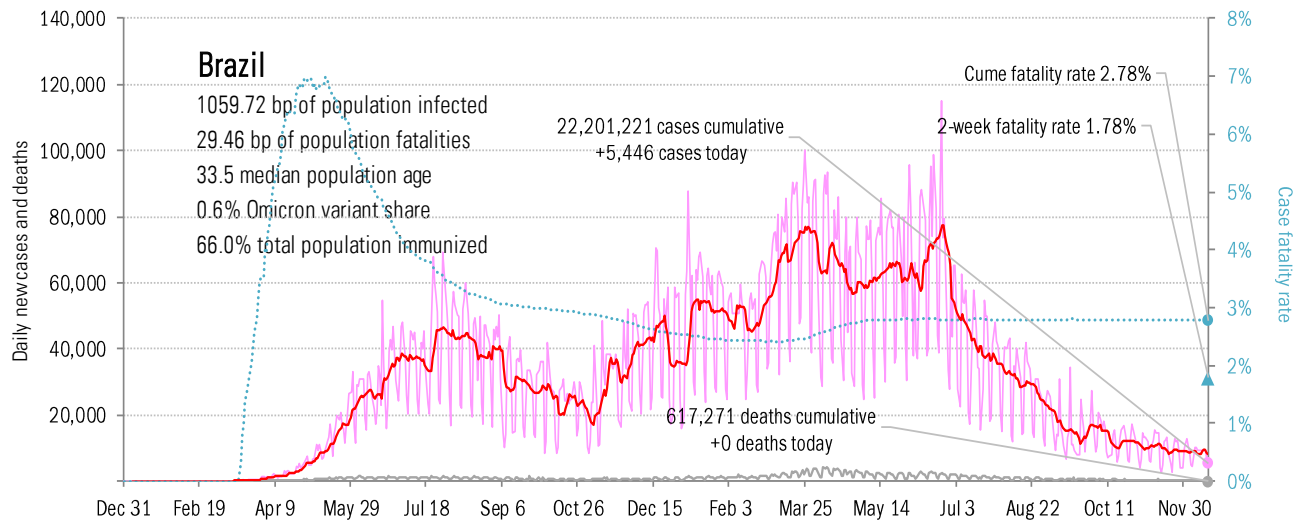
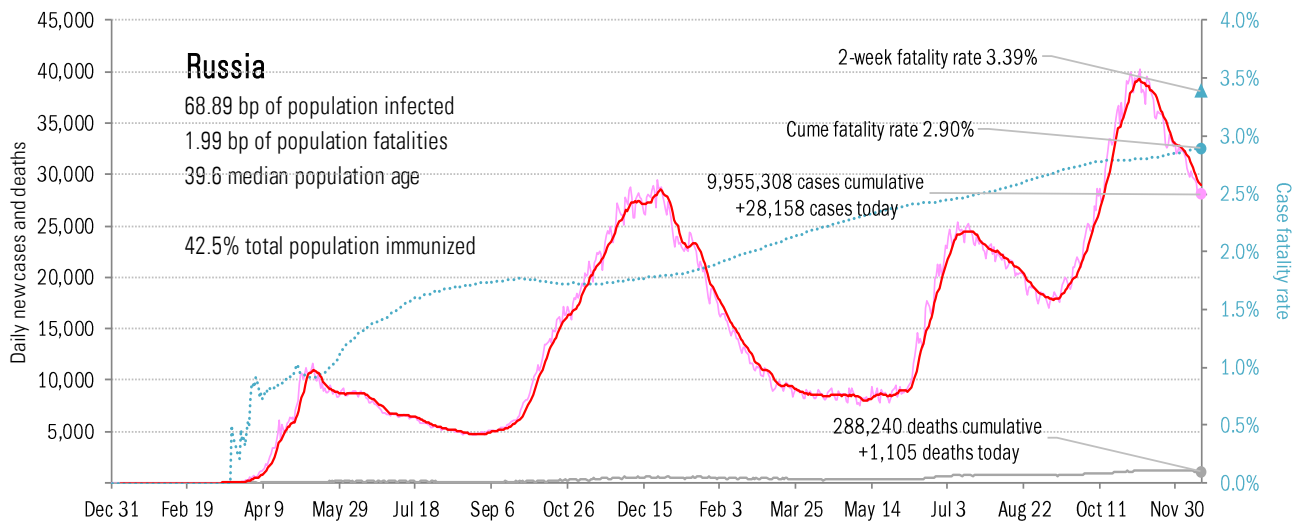
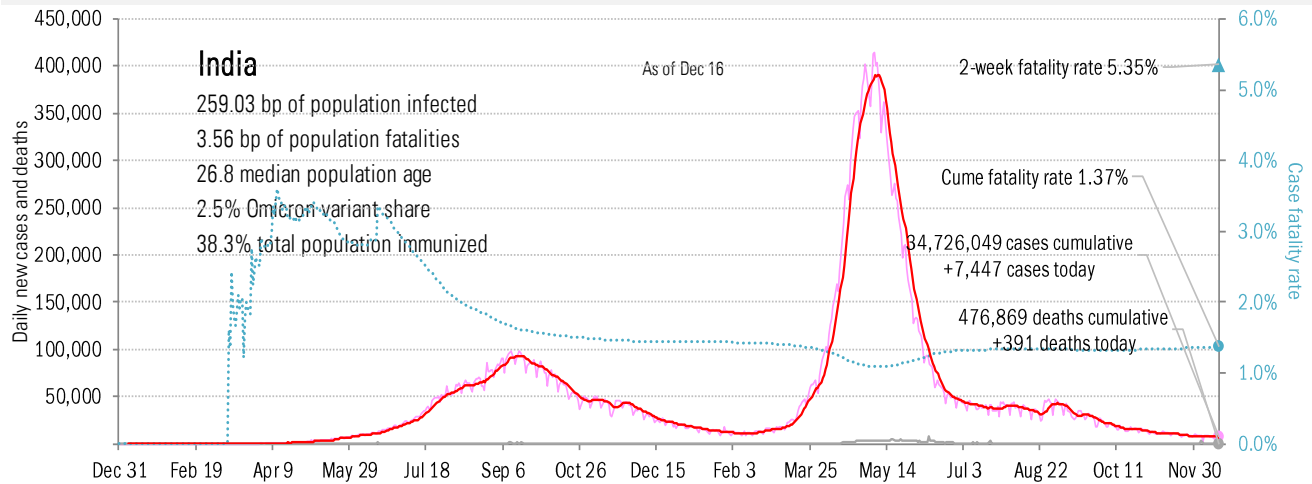
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

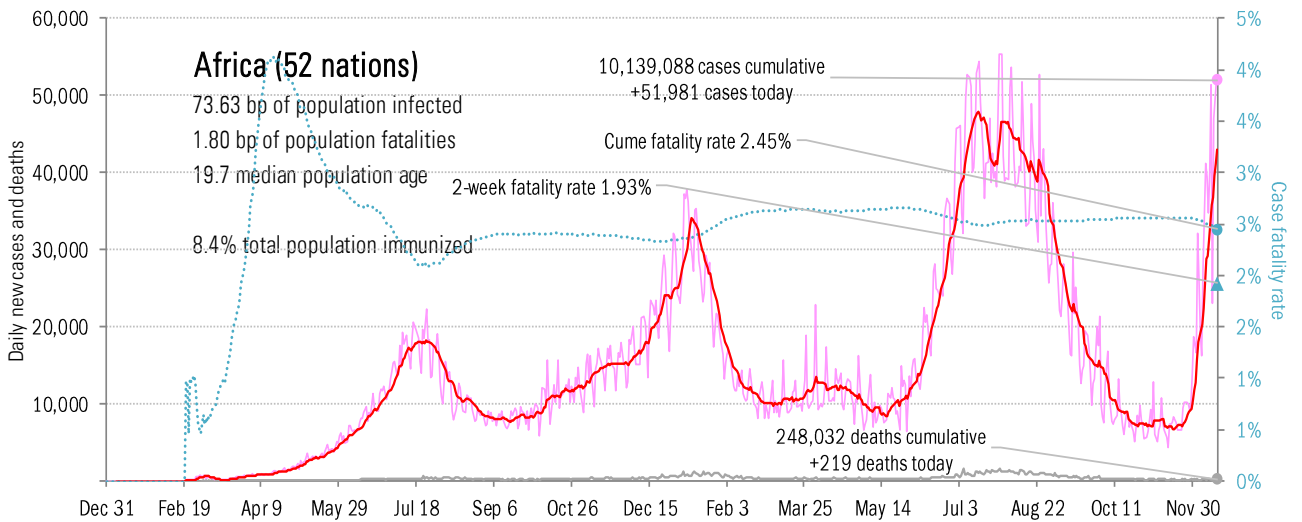
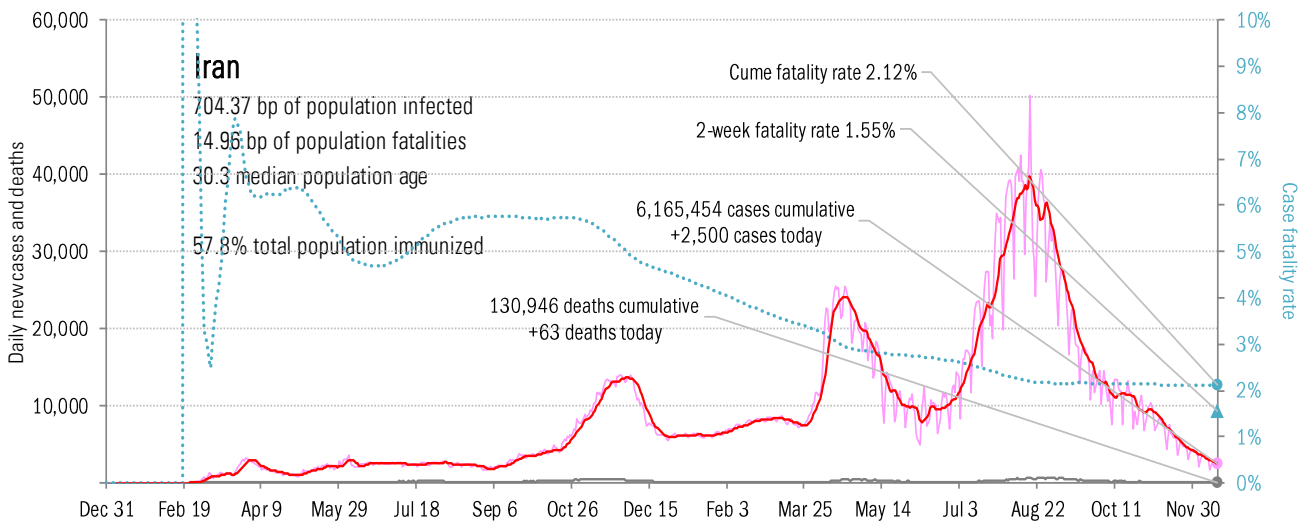
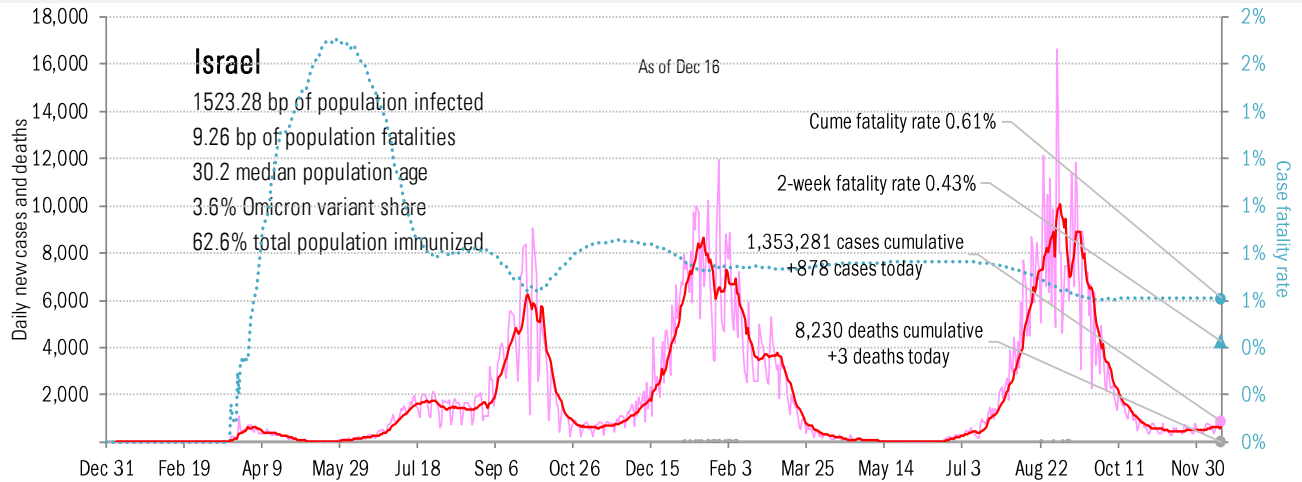
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

Cases: 7-day average and daily Deaths: Daily

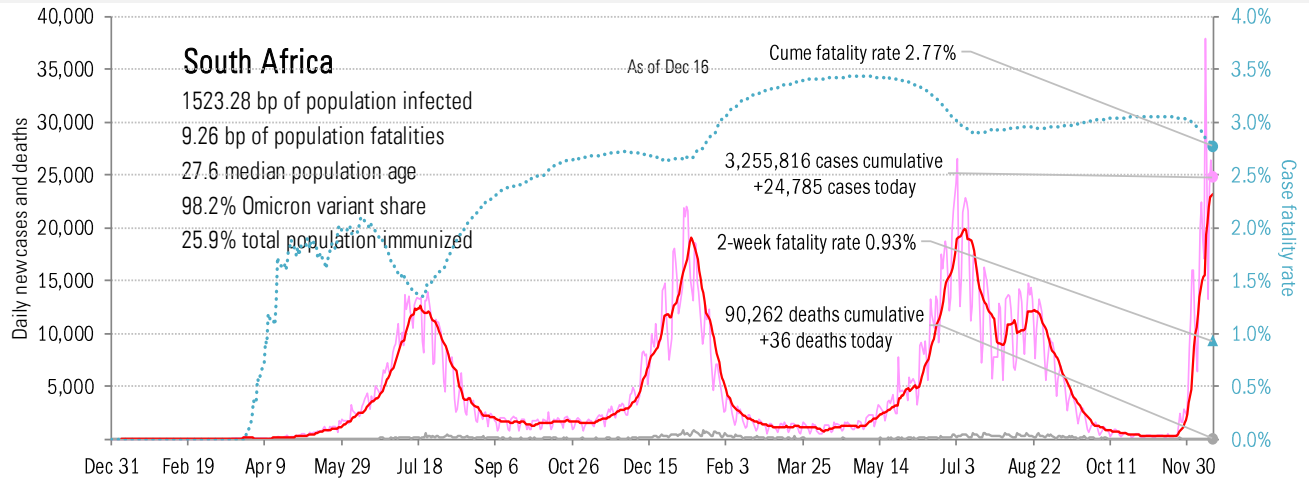


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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