

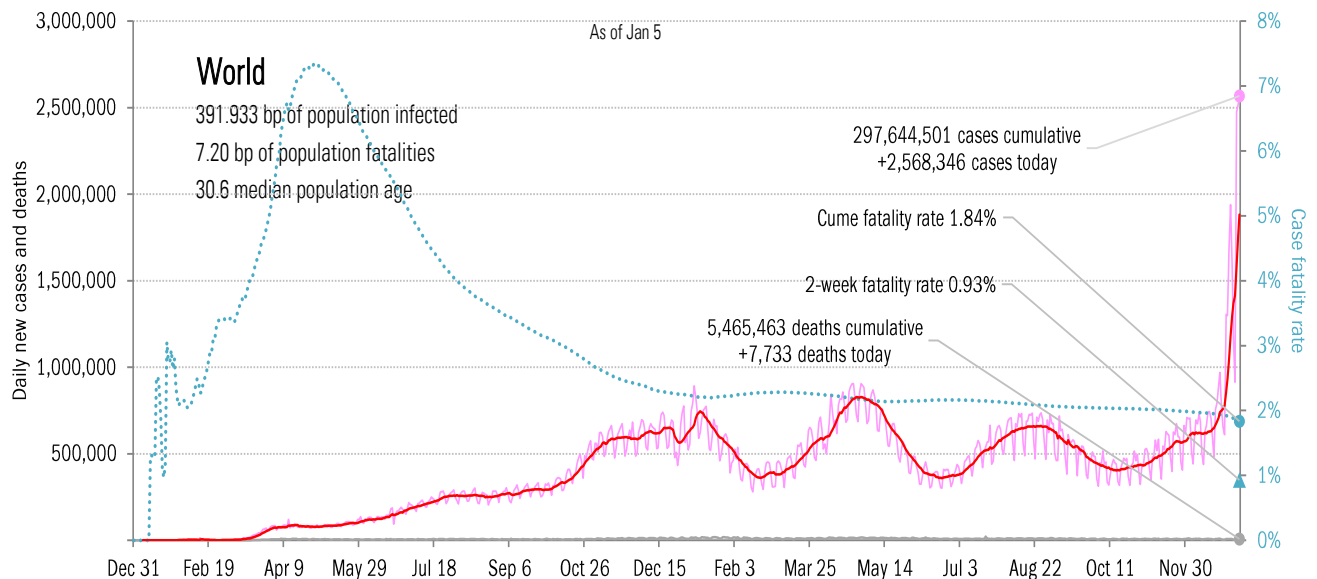
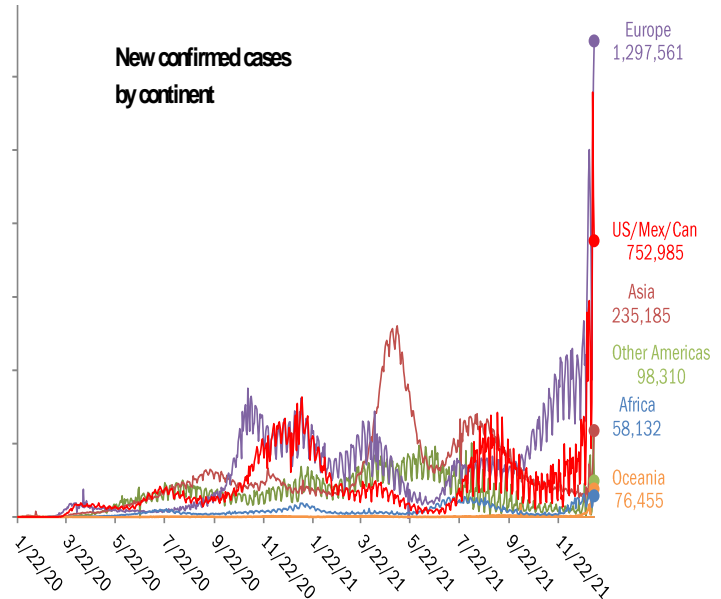
## Data Insights: Covid-2019 Monitor

Thursday, January 6, 2022

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	693,378	United States	2,008
France	332,308	Russia	804
United Kingdom	195,235	Poland	632
Italy	189,088	Germany	444
Spain	137,180	United Kingdom	344
Argentina	95,159	India	325
India	90,928	Ukraine	297
Australia	75,426	France	246
Germany	67,337	Italy	231
Turkey	66,467	Vietnam	230
<b>1,942,506</b>		<b>5,561</b>	
World	2,568,346	World	7,733
Top ten	76%	Top ten	72%



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

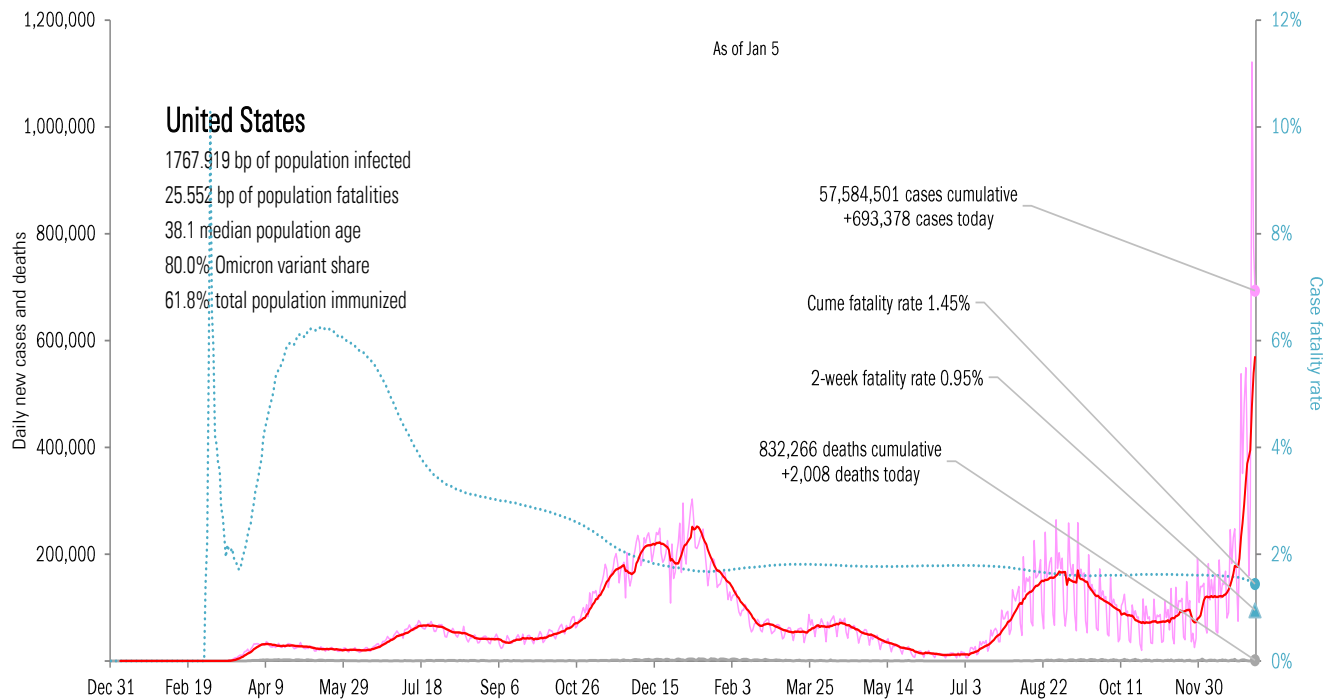
## The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
NY	76,000		MI	316		FL	568		CA	5,809,692		CA	76,760		TX	408,509		GA	89%	RI	93%
CA	59,708		IA	161		CA	439		TX	4,851,987		TX	76,132		FL	344,359		RI	86%	KY	91%
FL	49,718		NY	158		NY	335		FL	4,242,285		FL	62,689		CA	341,313		PA	86%	NM	90%
TX	47,266		PA	143		GA	230		NY	3,812,399		NY	60,023		NY	200,495		WA	85%	NH	89%
NJ	37,285		CA	126		NJ	201		IL	2,295,445		PA	37,111		GA	174,093		MA	84%	IN	89%
MI	32,856		TX	101		TX	180		PA	2,150,286		GA	31,521		CH	159,644		MN	84%	MO	88%
IL	32,279		IL	79		PA	156		CH	2,112,824		IL	30,589		PA	147,228		WV	84%	AL	88%
MA	30,805		WI	73		IL	121		GA	1,928,942		CH	29,674		IL	130,279		MI	83%	CK	88%
PA	27,300		MN	71		SC	102		MI	1,808,738		MI	29,659		KY	121,685		CT	83%	AR	87%
GA	24,024		TN	69		LA	99		NC	1,763,614		NJ	29,209		MI	120,088		MD	83%	DE	87%
417,241			1,297			2,431			30,776,212			463,367			2,147,693						
All states 693,378			2,008			3,751			All states 57,584,501			832,266			3,877,871			All states 70%		67%	
Top ten 60%			65%			65%			Top ten 53%			56%			55%			Median 78%		83%	

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-87,076	CH	-227	TX	-514	MP	+50 bp
GA	-41,015	FL	-142	NY	-324	AL	+10 bp
SC	-28,787	IN	-132	FL	-199	AR	+10 bp
MO	-13,804	MO	-128	MD	-163	AZ	+10 bp
MN	-12,044	AZ	-93	CH	-125	CA	+10 bp

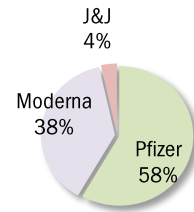


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	527,143,422	+1.191 million	US	61.8%	73.9%
Boosters	73,320,863	+0.634 million	UK	69.7%	76.0%
	<b>One dose</b>	<b>% Pop</b>	<b>Immune</b>	<b>% pop</b>	<b>New immune today</b>
Total population	251,274,426	75%	211,940,470	63%	+0.218 million
Age 12 to 17	15,296,205	64%	12,842,046	54%	+0.017 million
Age 18 to 64	169,960,754	84%	143,985,006	71%	+0.112 million
Age 65 and over	57,860,959	100%	49,700,650	91%	+0.018 million

France	73.8%	78.6%
Spain	81.4%	85.4%
Germany	70.9%	73.8%
Italy	74.3%	80.5%
Australia	76.9%	79.5%
Israel	64.0%	71.1%
Canada	77.4%	83.6%
Japan	78.9%	80.3%
Africa	9.5%	14.6%
India	44.3%	62.0%
Brazil	67.2%	77.8%
China	83.6%	87.2%



**State**

At least partial immunity as % population

Full immunity as % population

**Best**

**Middle**

**Worst**

Every American >18 immunized in **357 days** by Dec 27, 2022

75.0% of population >18 immunized

20.3% previously tested positive

**95.3%** vs 60% adult herd immunity

**AK**

65.3%

56.5%

**WI**

68.6%

62.2%

**ME**

86.3%

76.1%

As of Jan 5

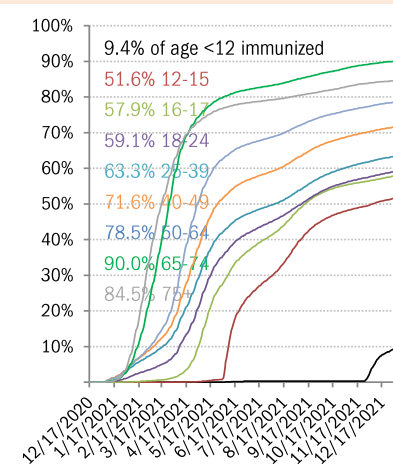
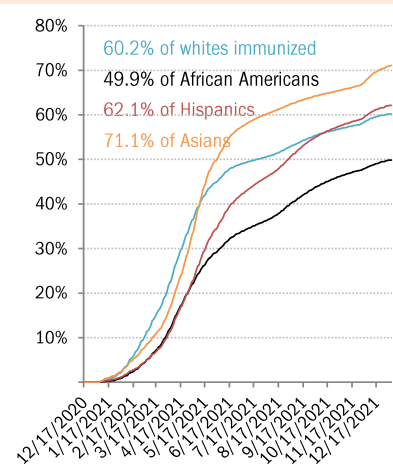
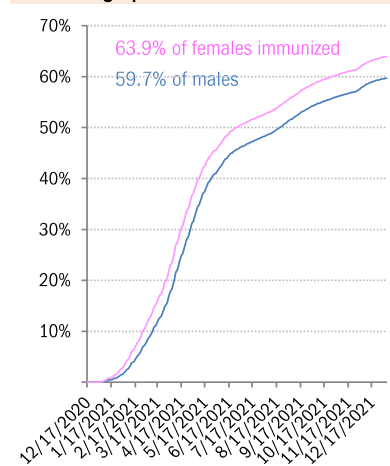
<b>WA</b> 76.0% 68.1%	<b>ID</b> 52.3% 46.4%	<b>MT</b> 62.2% 54.1%	<b>ND</b> 62.5% 52.8%	<b>MN</b> 71.8% 65.7%	<b>IL</b> 72.8% 64.5%	<b>MI</b> 63.8% 57.0%	<b>NY</b> 84.8% 72.1%	<b>VT</b> 89.8% 77.8%	<b>NH</b> 95.0% 67.4%	
<b>OR</b> 74.2% 66.6%	<b>NV</b> 70.0% 56.7%	<b>WY</b> 56.1% 47.7%	<b>SD</b> 71.4% 57.4%	<b>IA</b> 65.2% 59.2%	<b>IN</b> 58.1% 52.1%	<b>OH</b> 60.8% 55.5%	<b>PA</b> 78.9% 64.2%	<b>NJ</b> 84.4% 70.8%	<b>MA</b> 91.3% 74.9%	
<b>CA</b> 83.4% 66.5%	<b>UT</b> 67.6% 59.0%	<b>CO</b> 74.9% 66.5%	<b>NE</b> 66.7% 60.1%	<b>MO</b> 62.6% 53.1%	<b>KY</b> 62.8% 54.4%	<b>WV</b> 62.2% 55.3%	<b>VA</b> 79.6% 68.3%	<b>MD</b> 80.9% 70.6%	<b>CT</b> 89.5% 75.0%	<b>RI</b> 89.9% 76.9%
	<b>AZ</b> 67.7% 57.3%	<b>NM</b> 81.0% 66.5%	<b>KS</b> 69.7% 57.3%	<b>AR</b> 63.1% 51.5%	<b>TN</b> 59.0% 51.6%	<b>NC</b> 77.2% 57.0%	<b>SC</b> 63.2% 53.4%	<b>DC</b> 89.3% 67.9%	<b>DE</b> 77.2% 64.5%	
			<b>OK</b> 66.5% 53.7%	<b>LA</b> 57.8% 50.5%	<b>MS</b> 56.2% 48.7%	<b>AL</b> 58.9% 47.9%	<b>GA</b> 61.6% 51.3%			
			<b>TX</b> 67.3% 57.2%					<b>FL</b> 74.9% 63.6%	<b>PR</b> 89.4% 77.3%	

**HI**

89.7%

64.0%

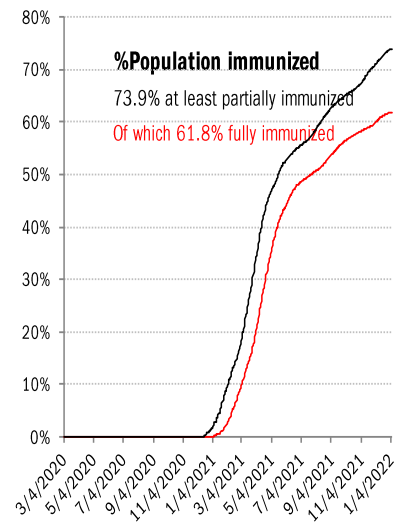
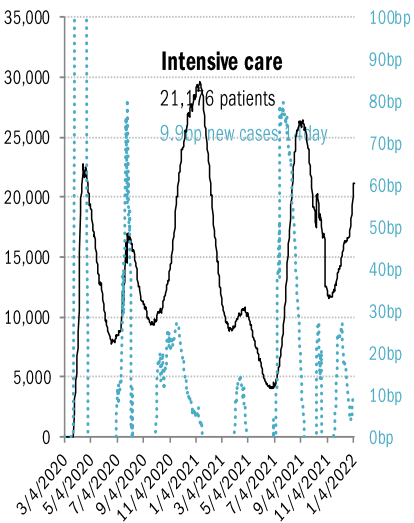
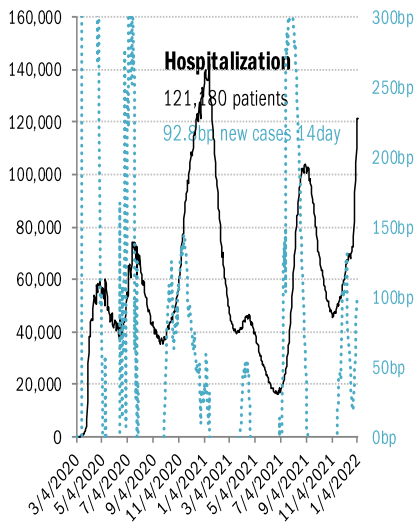
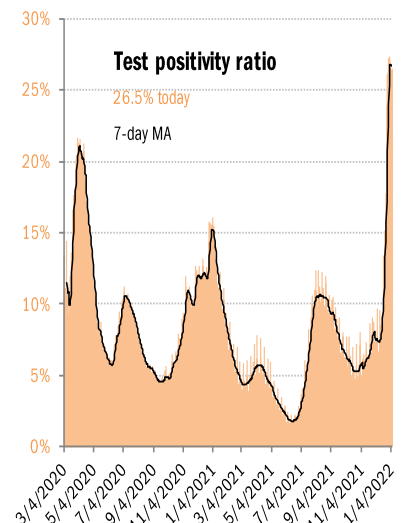
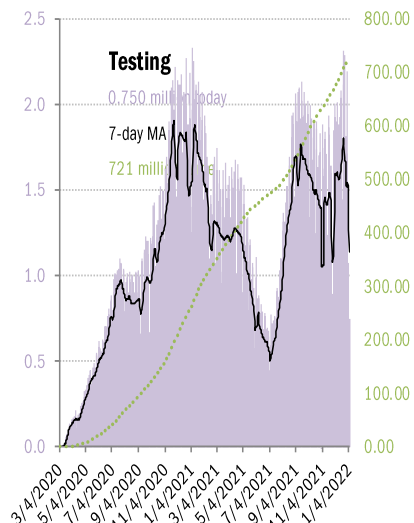
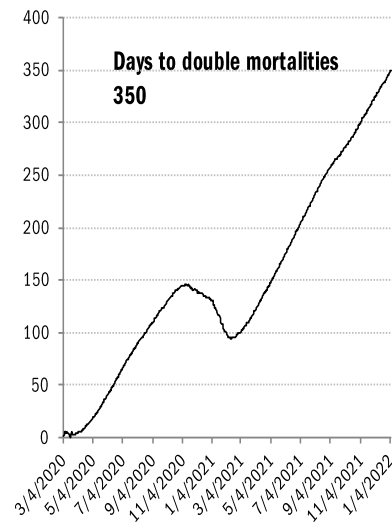
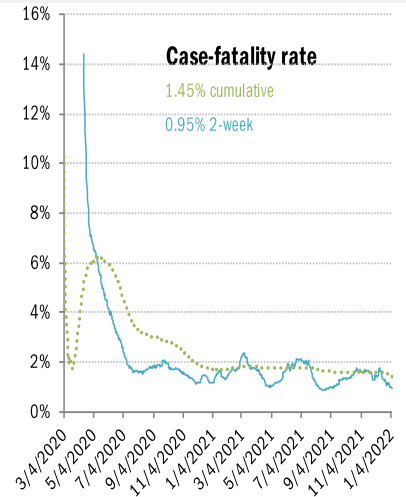
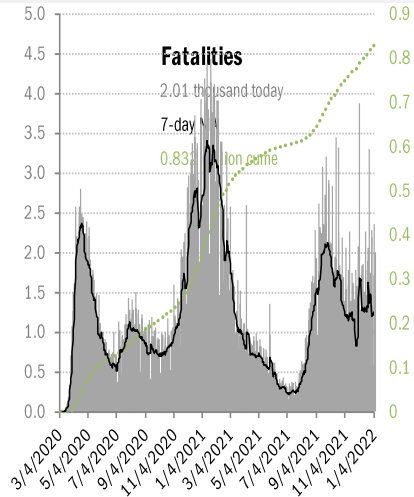
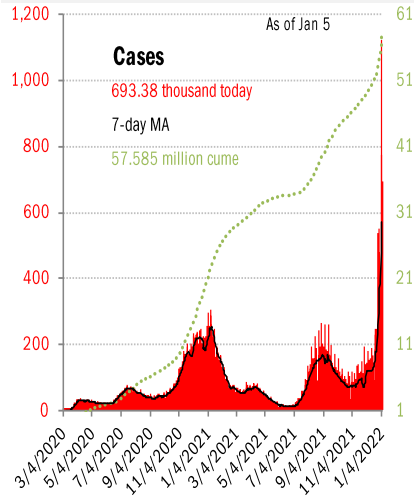
## The demographics of US vaccination



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

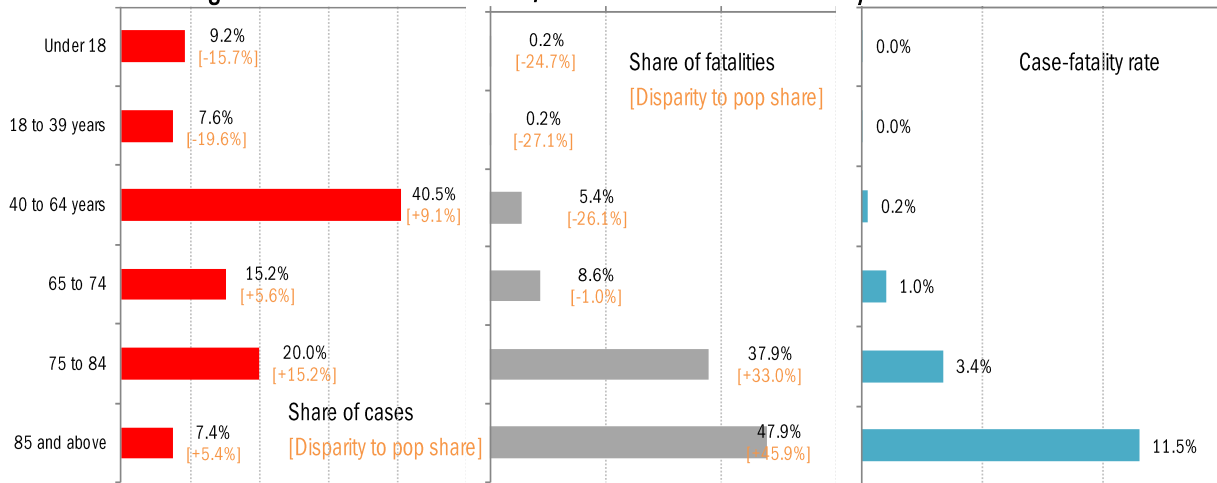
# US deep-dive

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

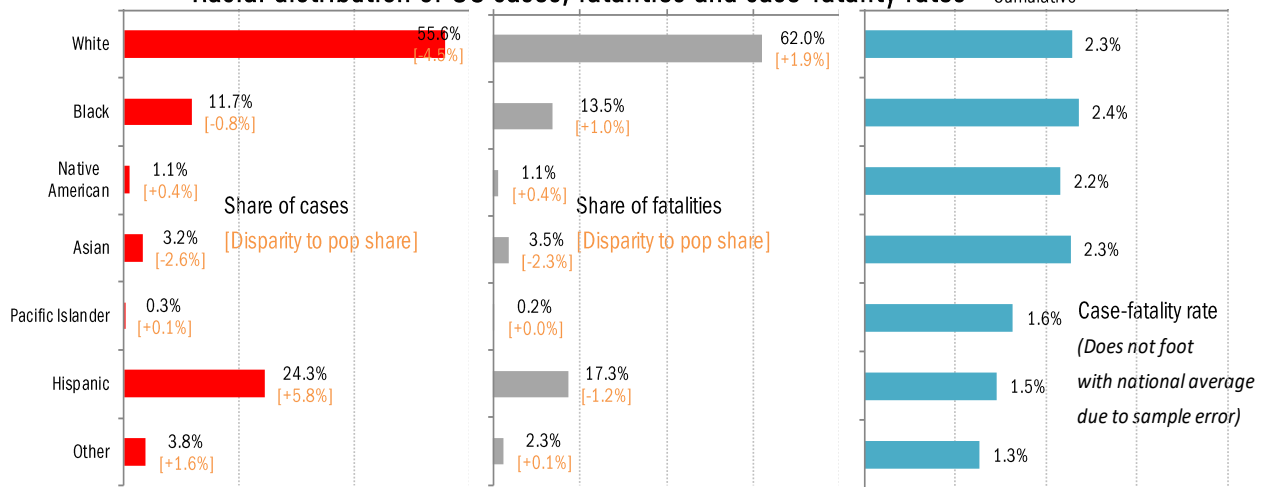


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

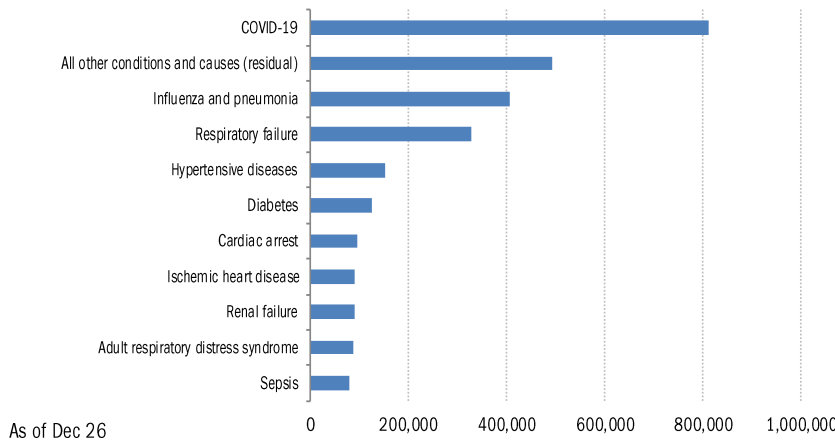


Racial distribution of US cases, fatalities and case-fatality rates



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

[For C.D.C.'s Walensky, a Steep Learning Curve on Messaging](#)

Sharon LaFraniere, Sheryl Gay Stolberg and Noah Weiland  
Jan. 5, 2022

*New York Times*  
January 5, 2022

[The Vaccine Mandate: A Case For Caution](#)

Richard Epstein  
*Hoover Institution*  
January 4, 2022

[UK nurse reportedly recovers from COVID-19 coma after receiving Viagra](#) By Yaron Steinbuch

Yaron Steinbuch  
*New York Post*  
January 3, 2022

[L.A. County detects first 'flurona' case, a co-infection of flu and COVID](#)

Brittney Majia  
*Los Angeles Times*  
January 5, 2022

[Biden Administration to Increase Supply of 'Game Changer' Pfizer Pill](#)

Noah Weiland and Rebecca Robbins  
*New York Times*  
January 4, 2022

[Hong Kong Bans Flights From U.S., U.K., Six Other Nations](#)

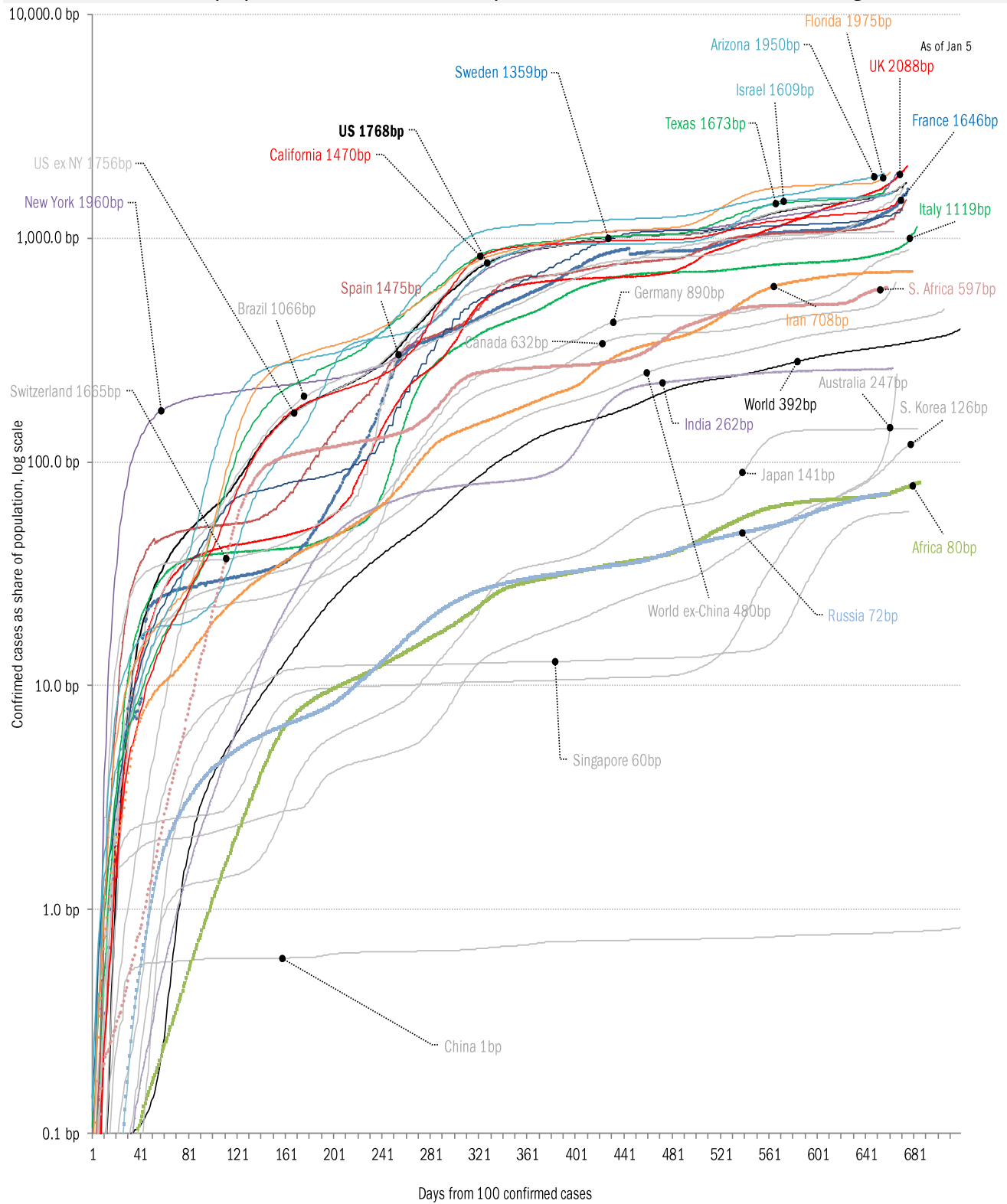
Shirley Zhao, Alfred Liu, and Jinshan Hong  
*Bloomberg*  
January 4, 2022

## Meme of the day



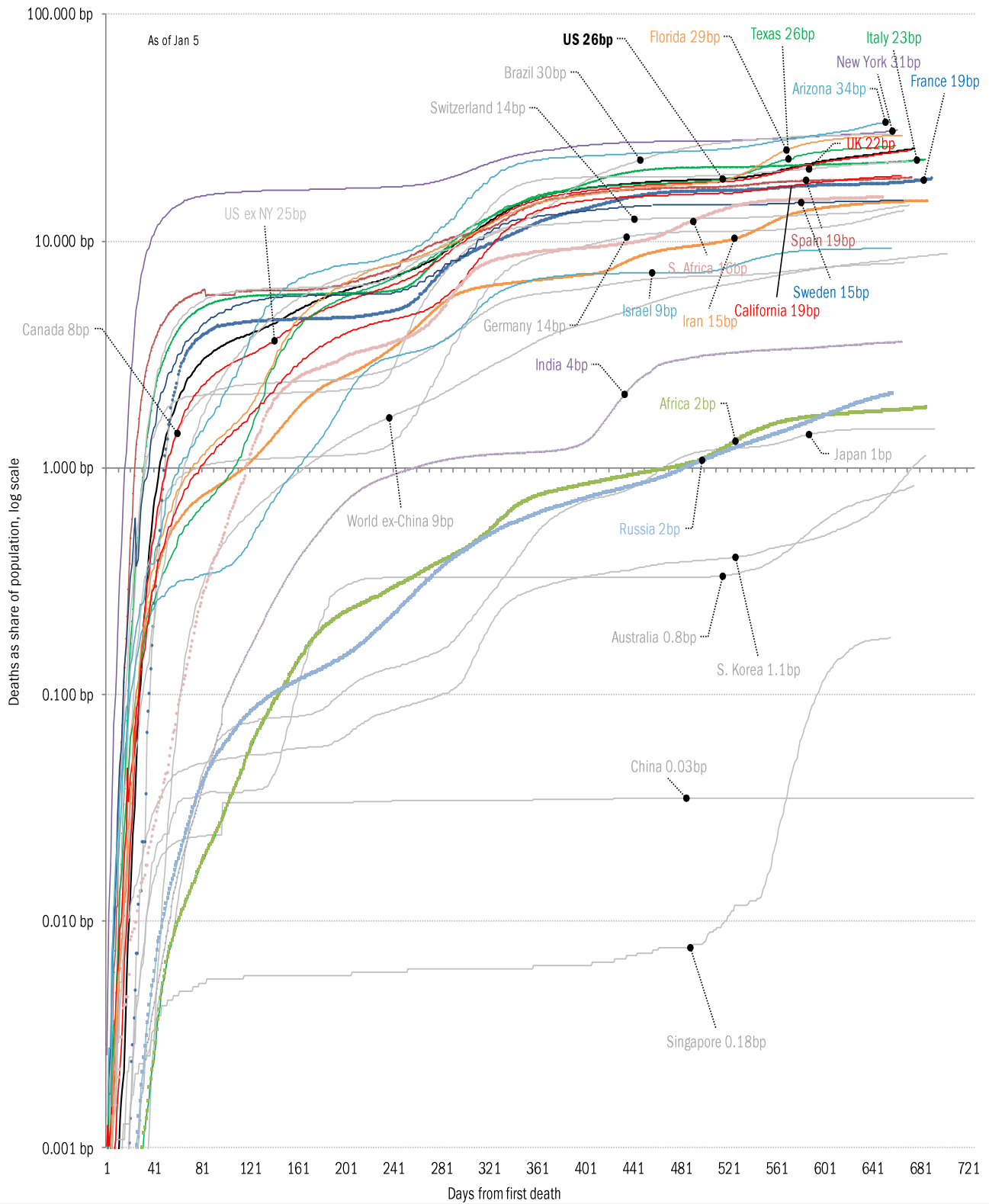
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



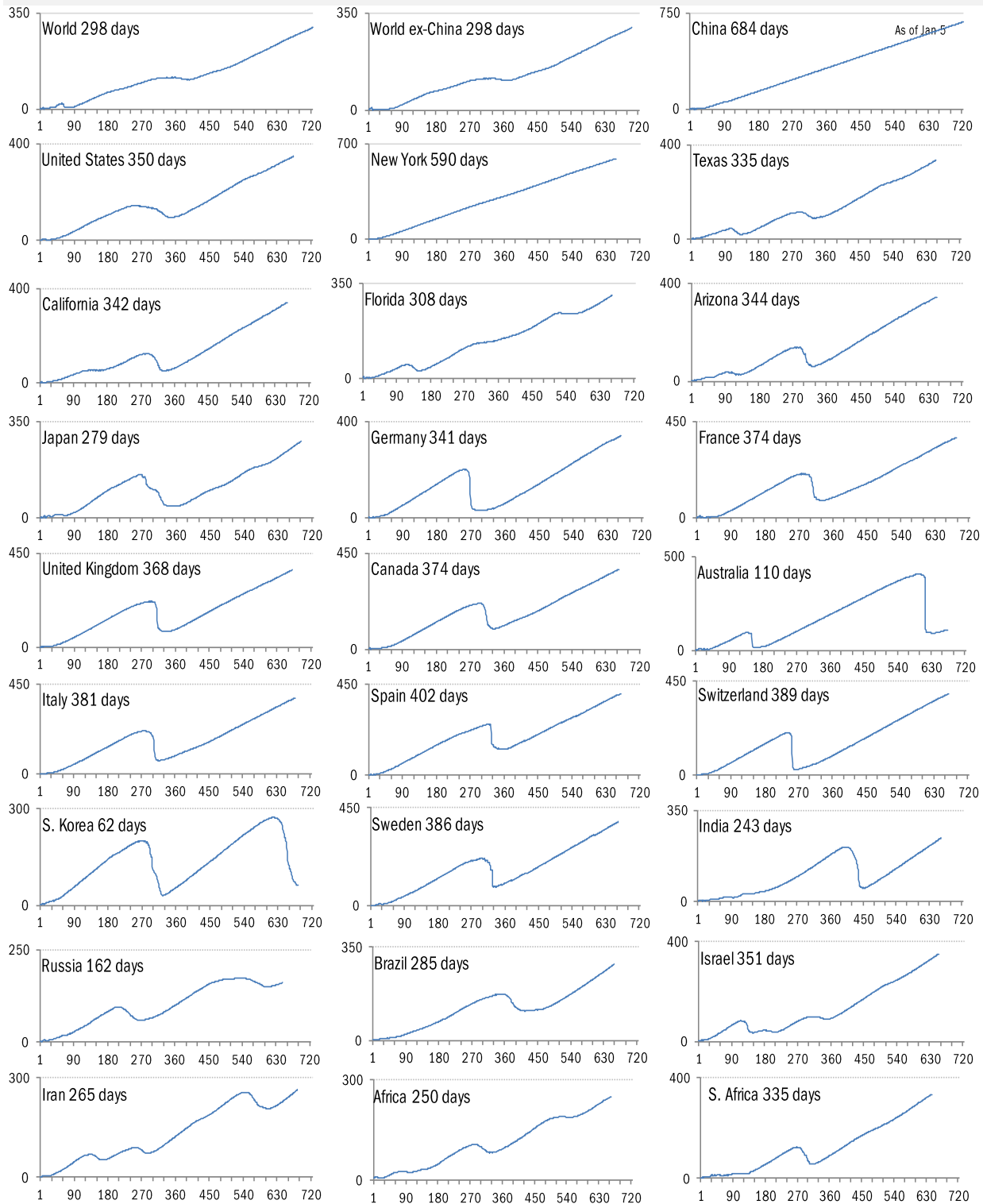
Source: [Johns Hopkins](#), TrendMacro calculations



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

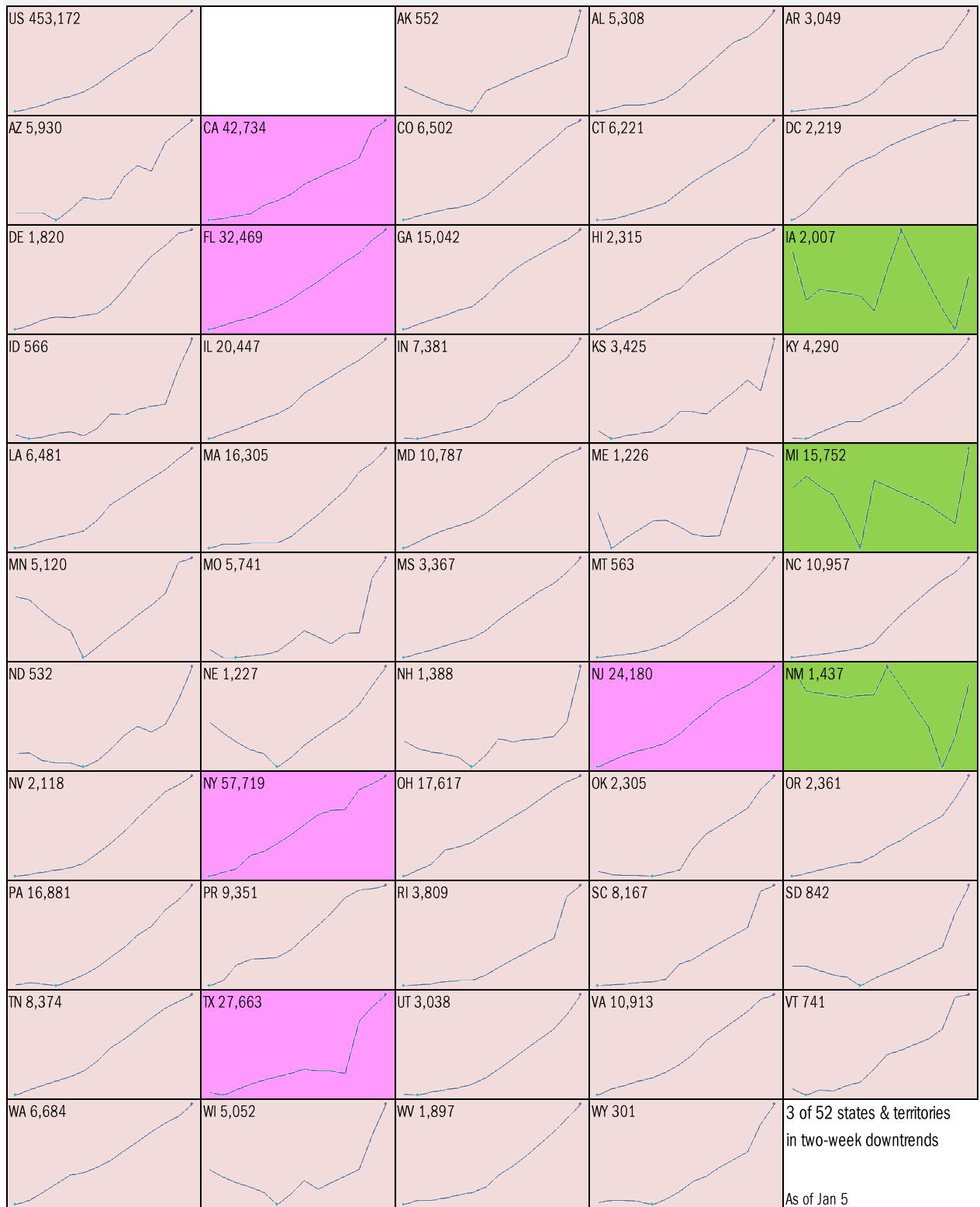
Vertical: days to double deaths Horizontal: days from first death

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

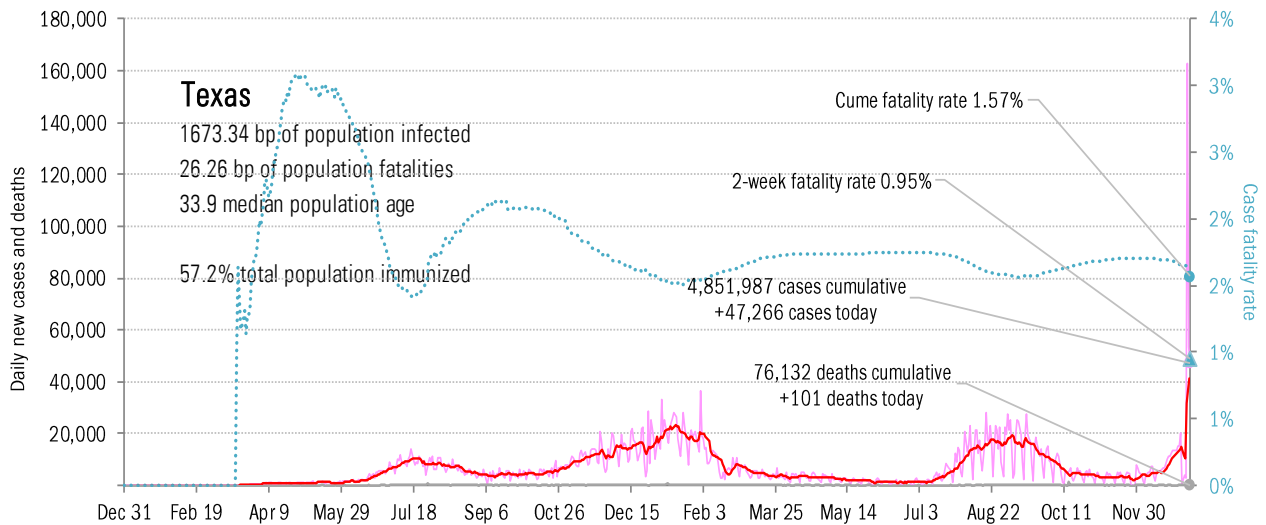
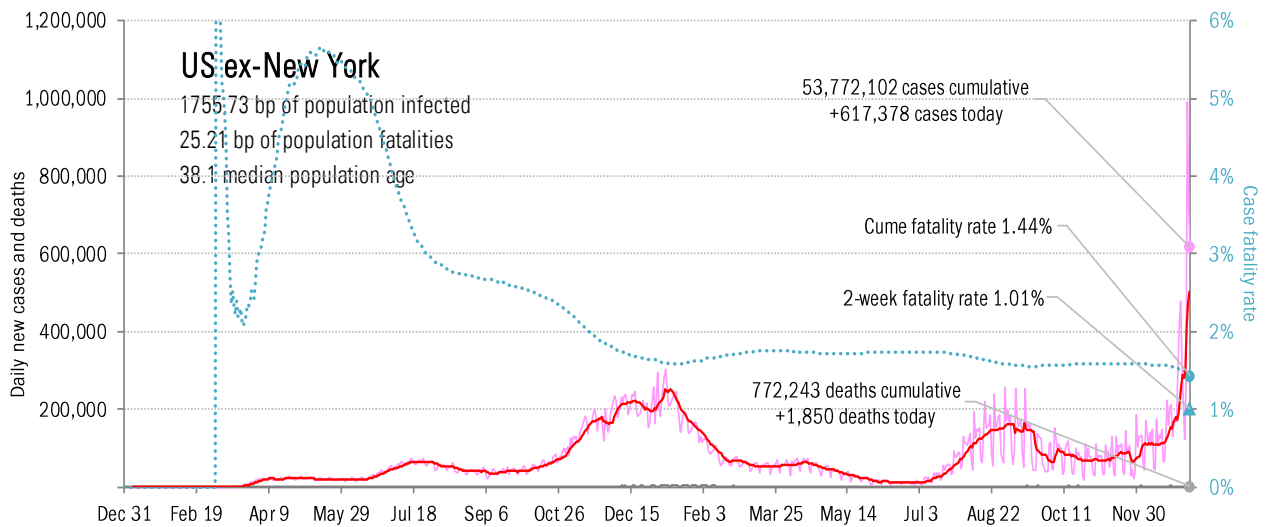
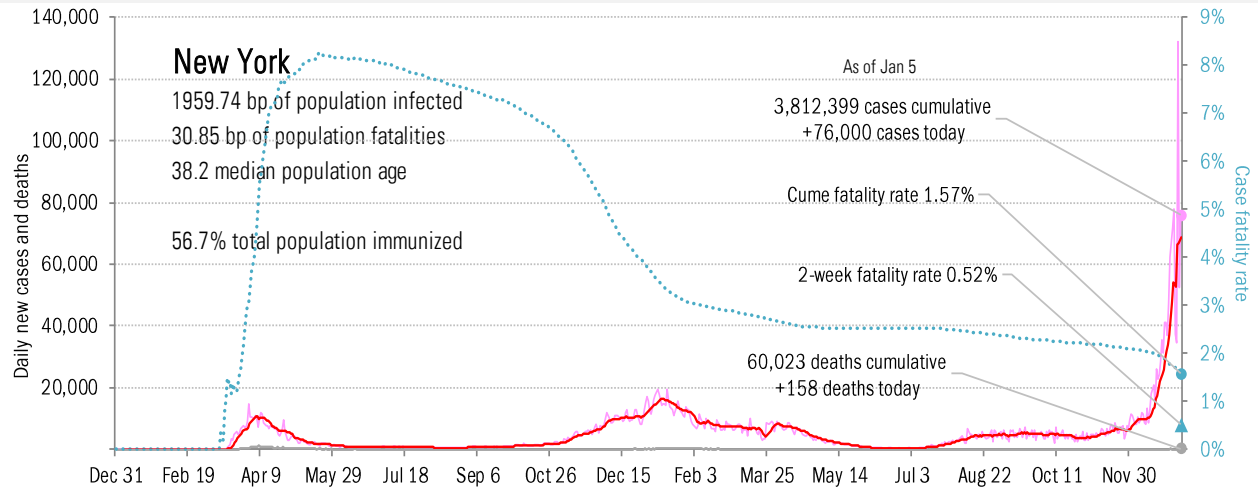
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

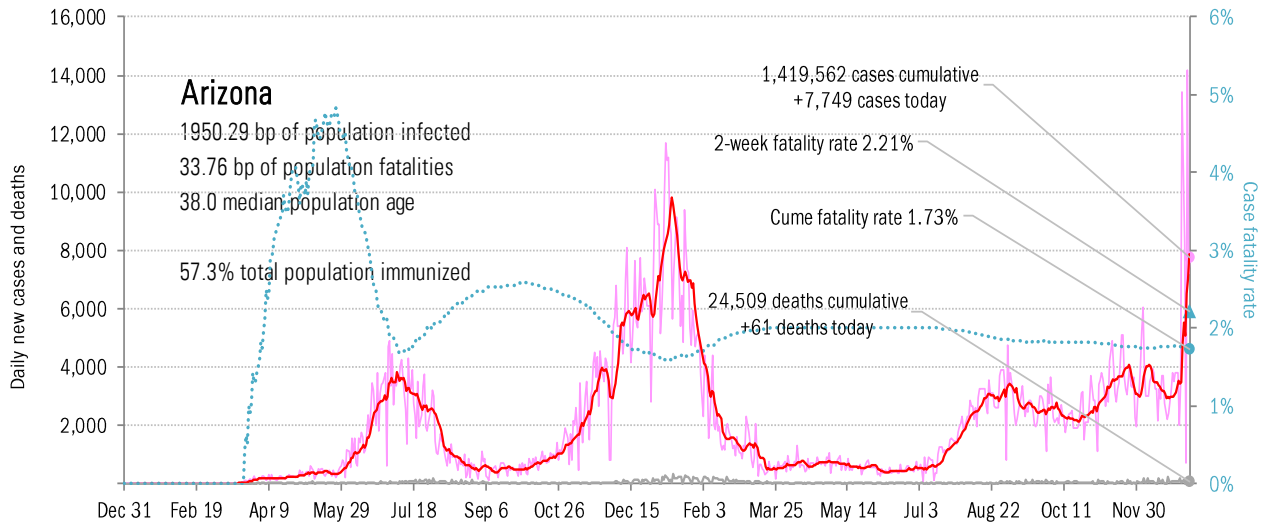
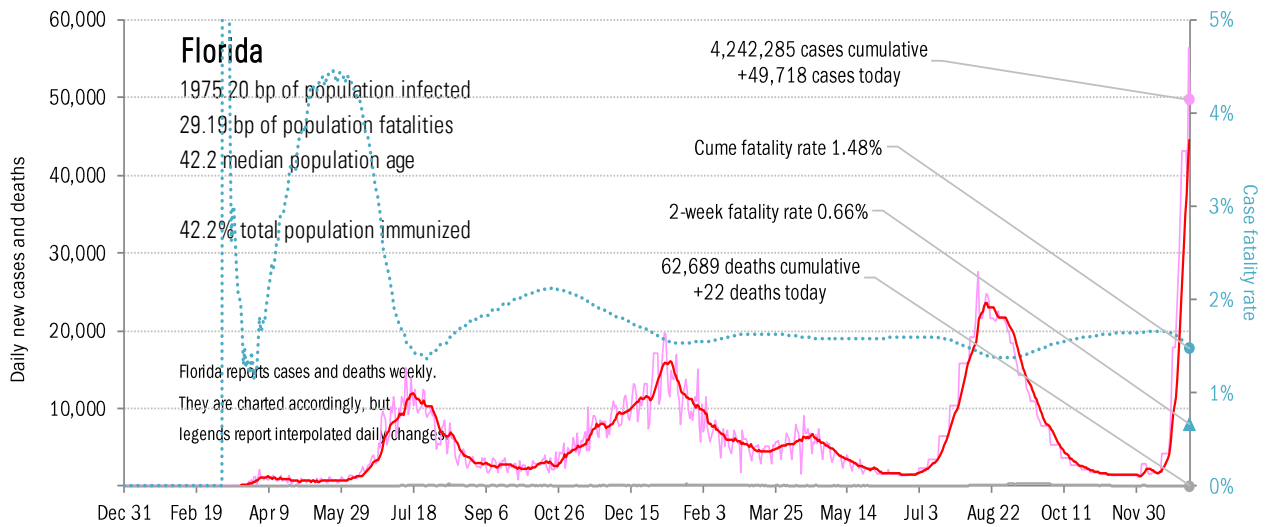
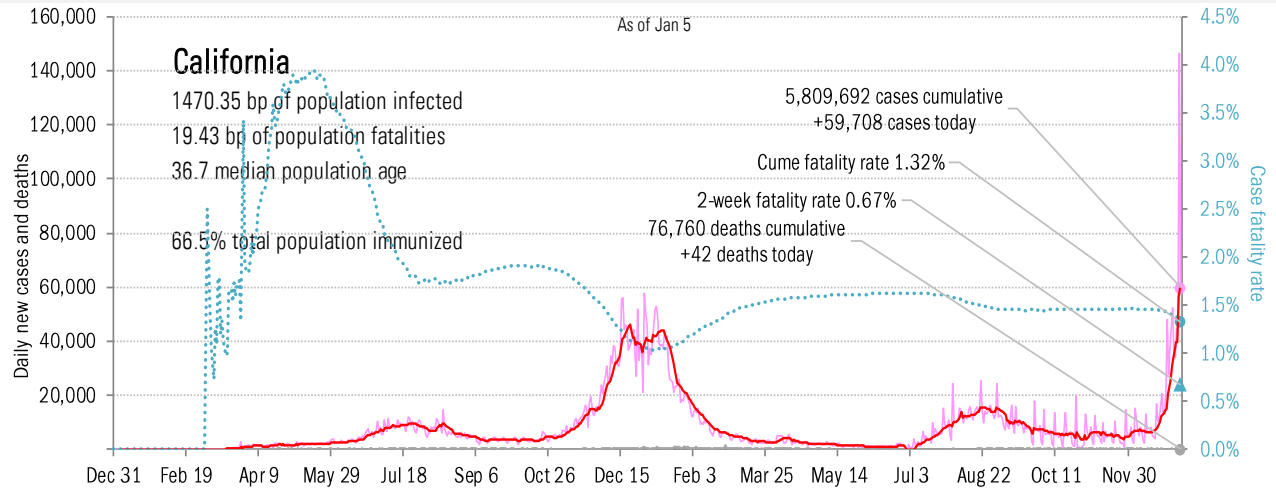
Cases: 7-day average and daily Deaths: Daily



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

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

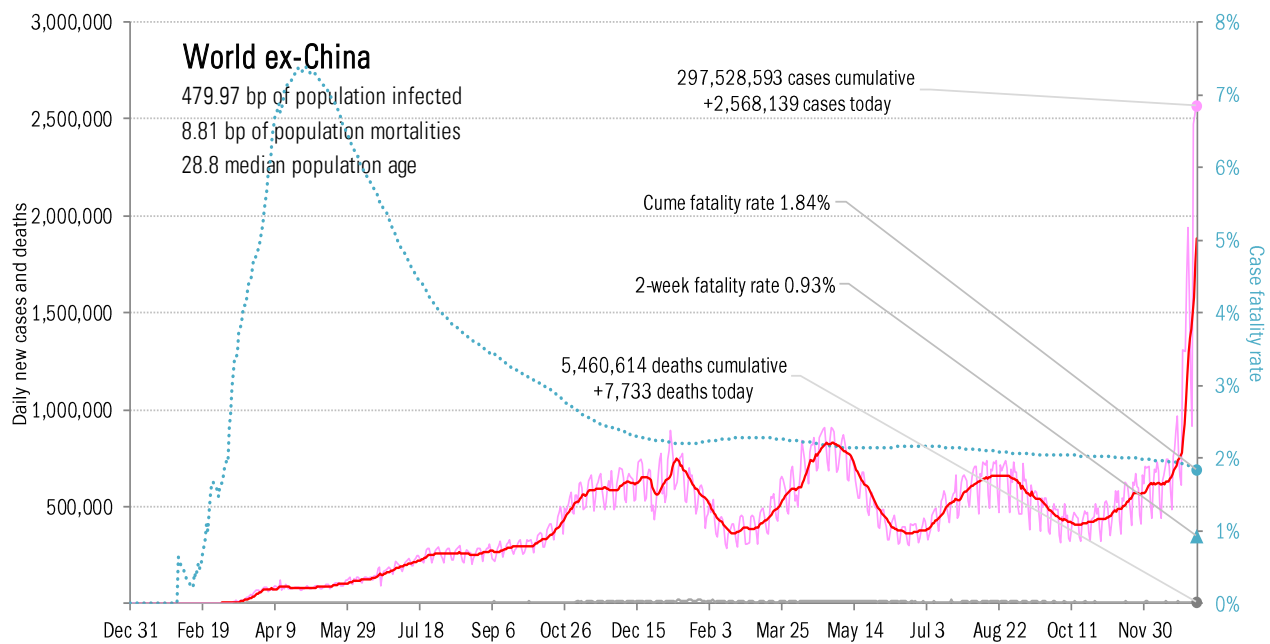
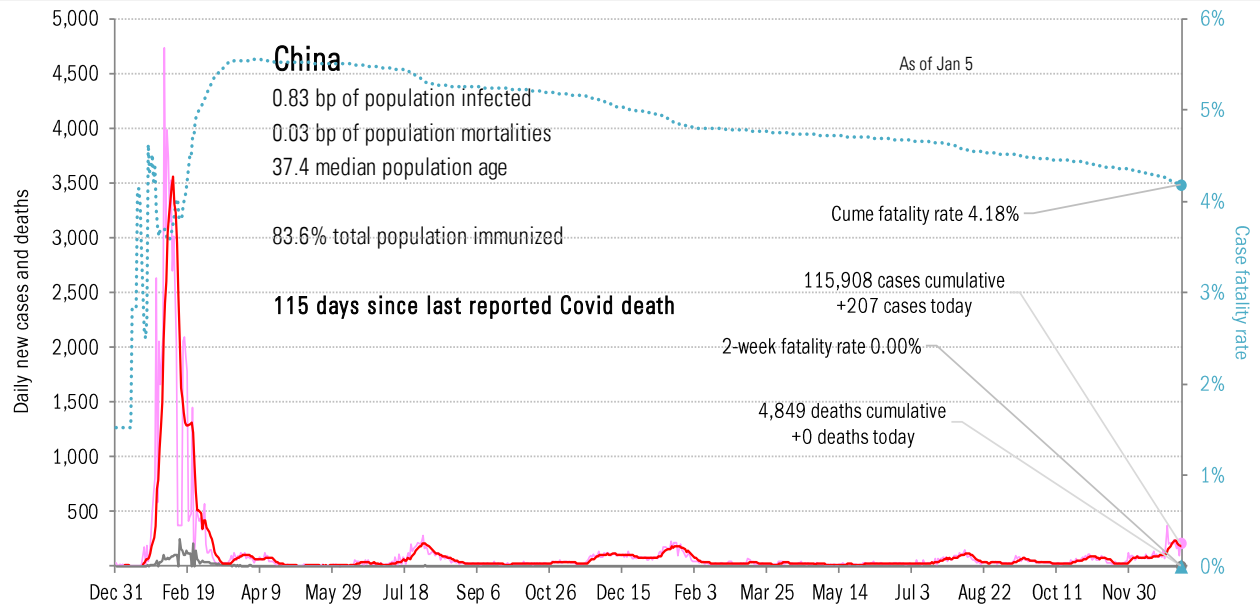
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

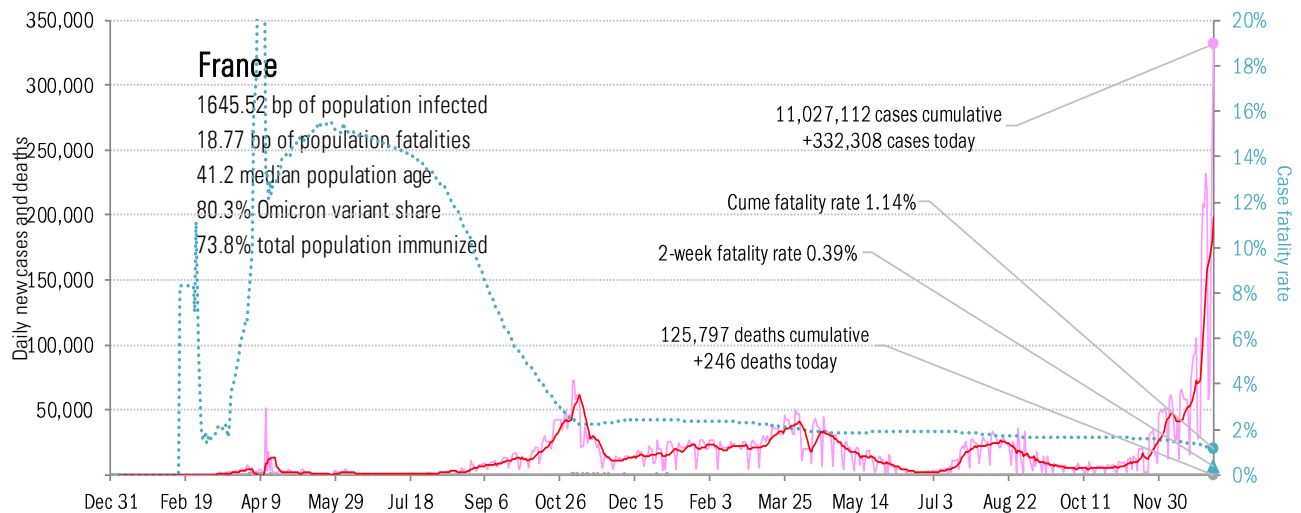
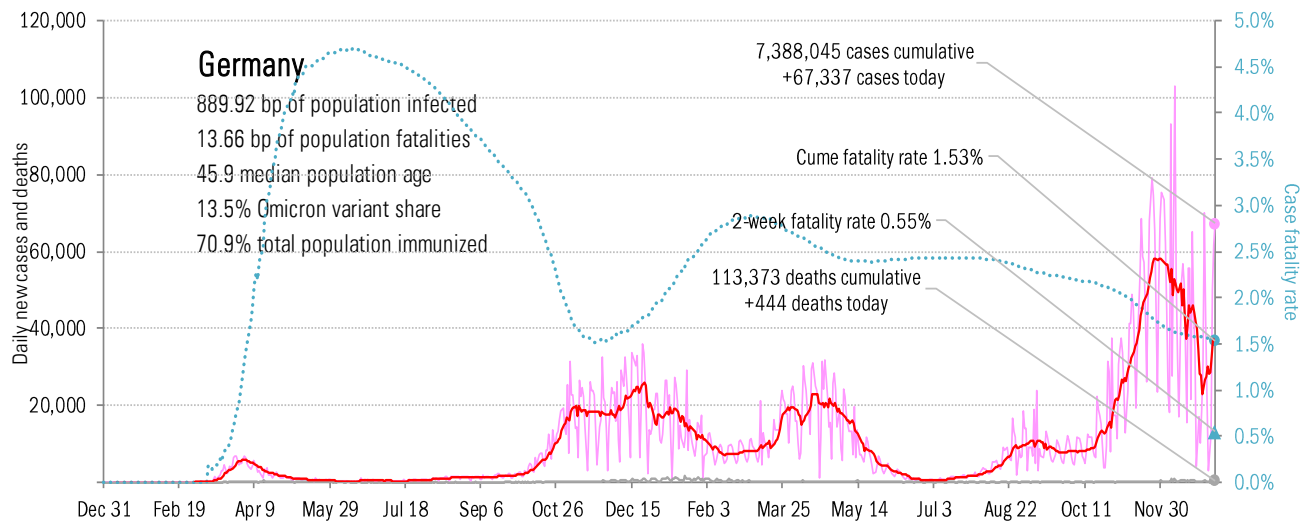
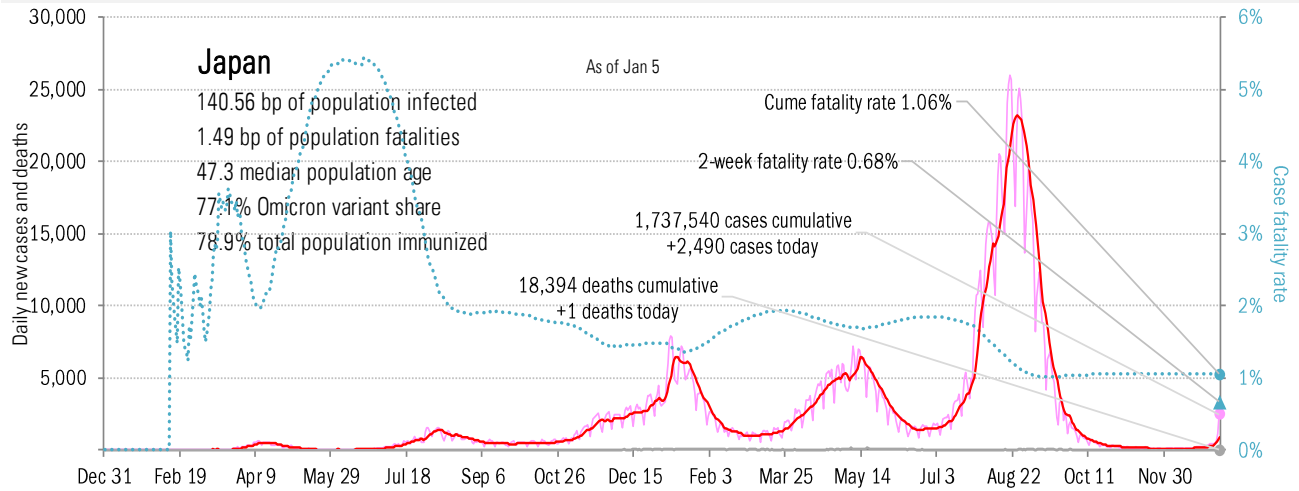
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

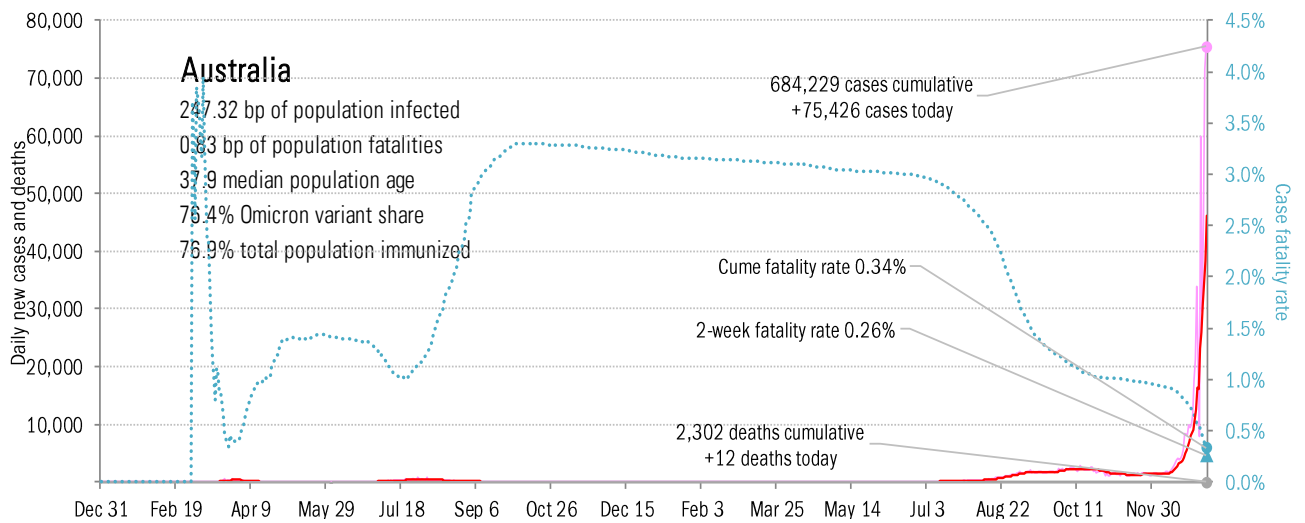
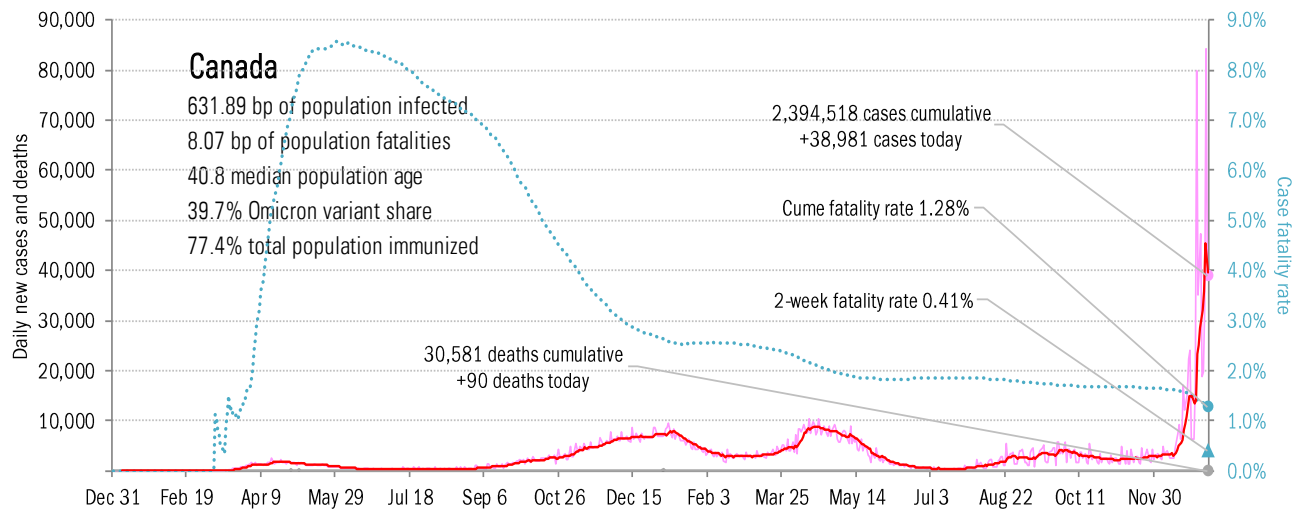
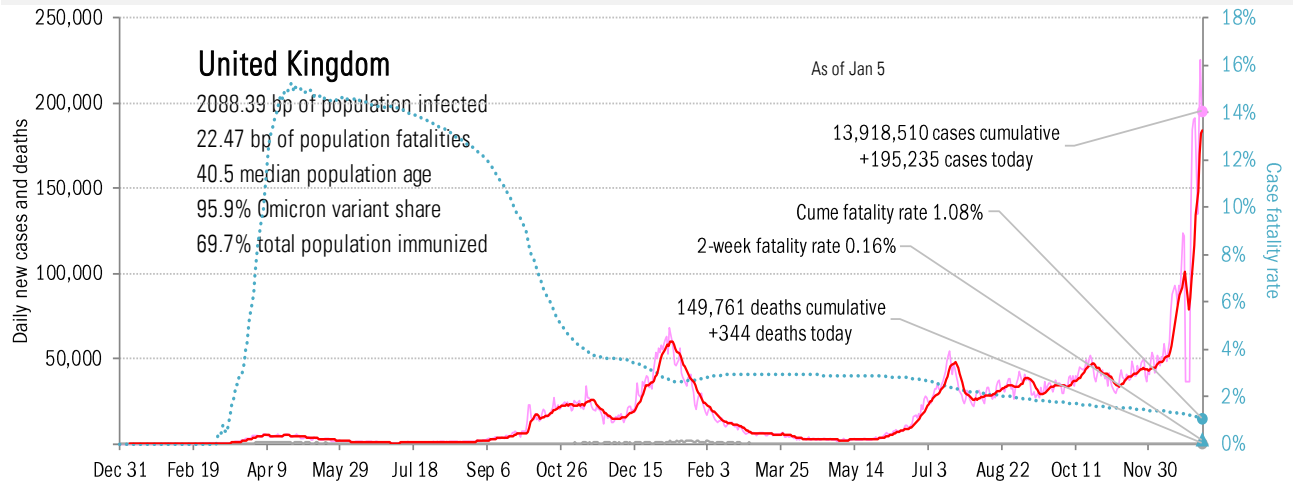
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

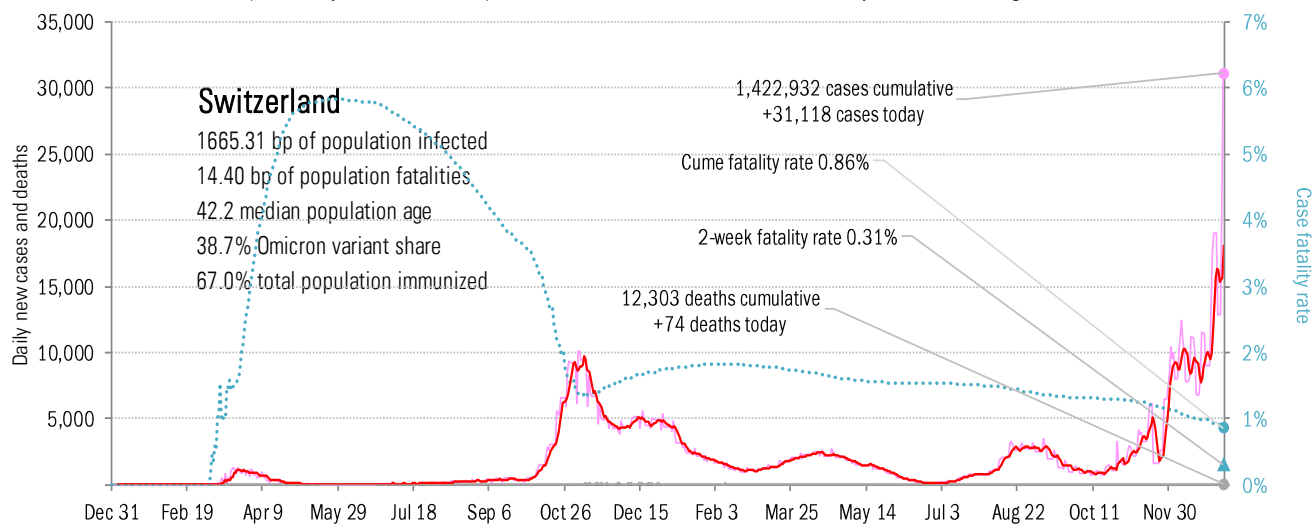
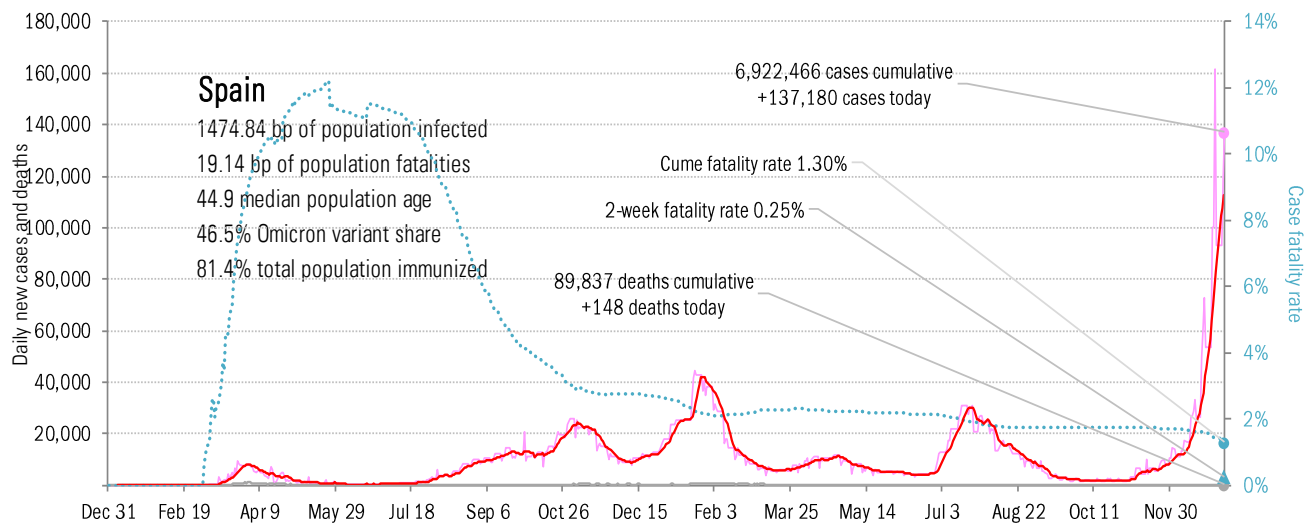
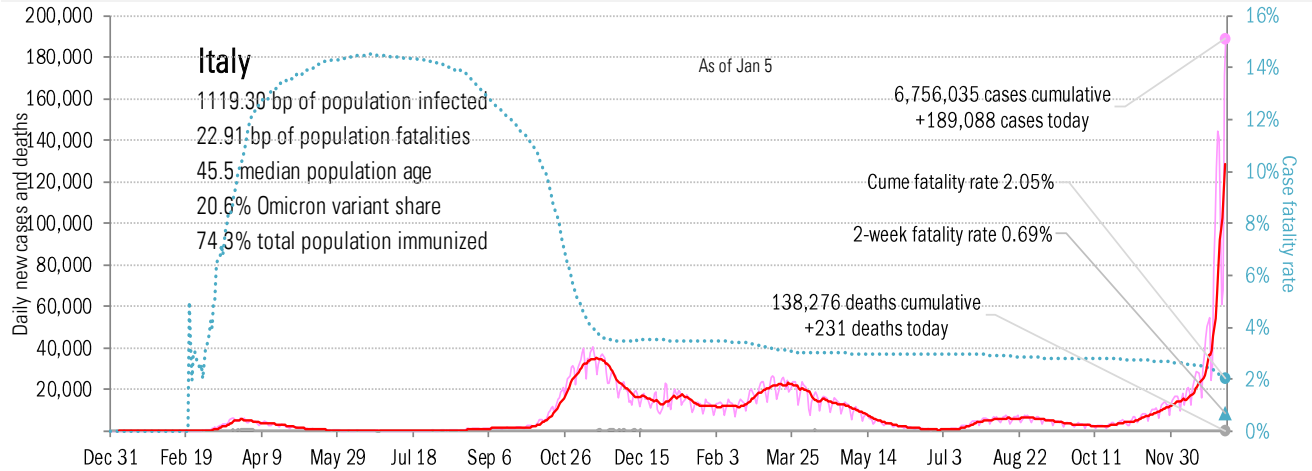


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

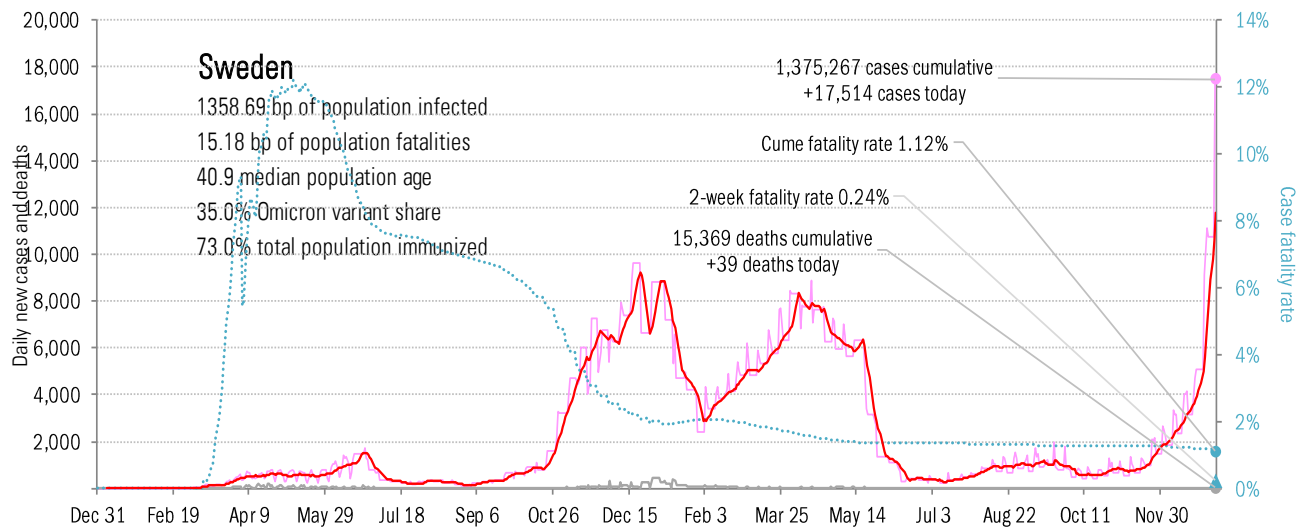
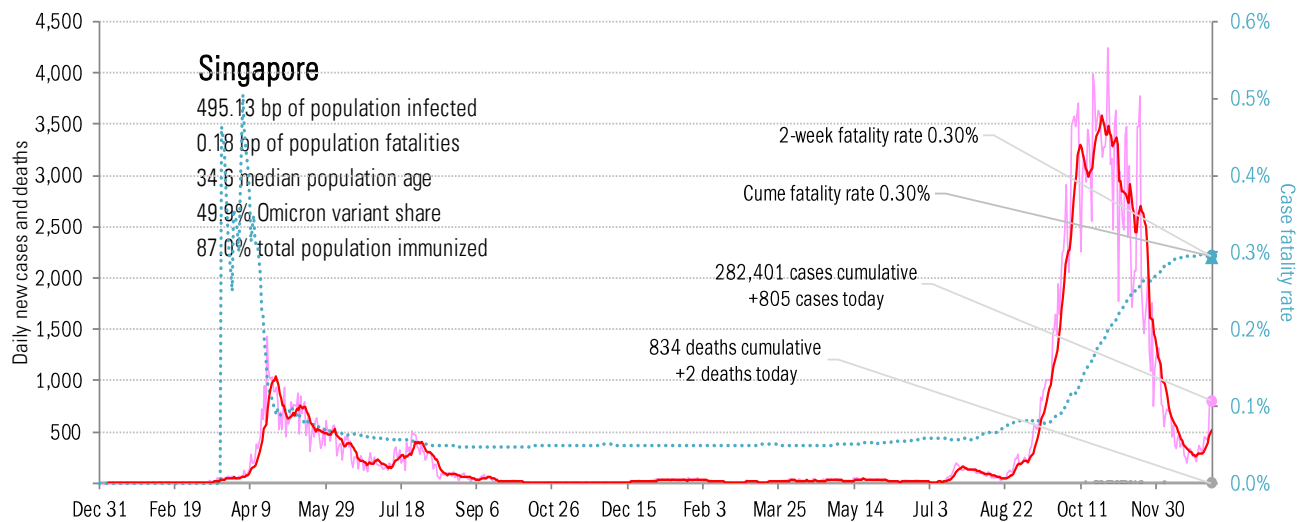
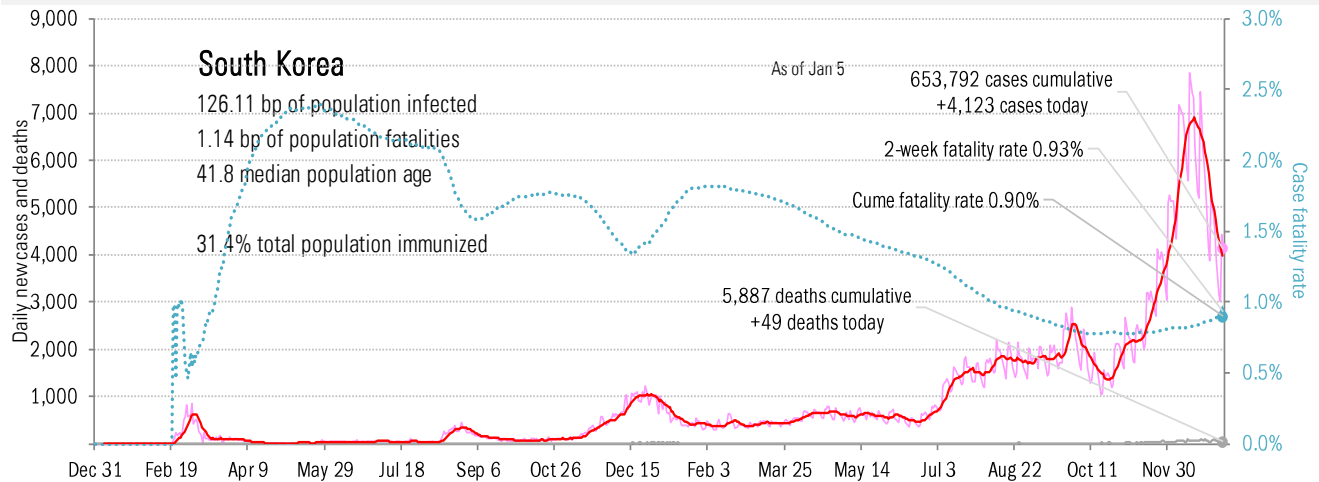
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

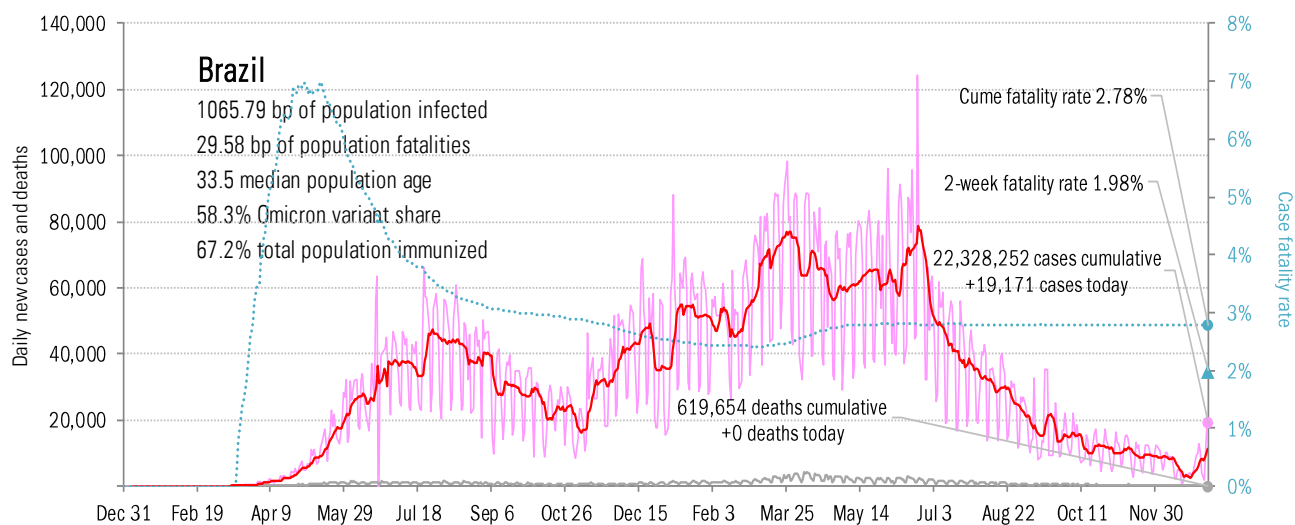
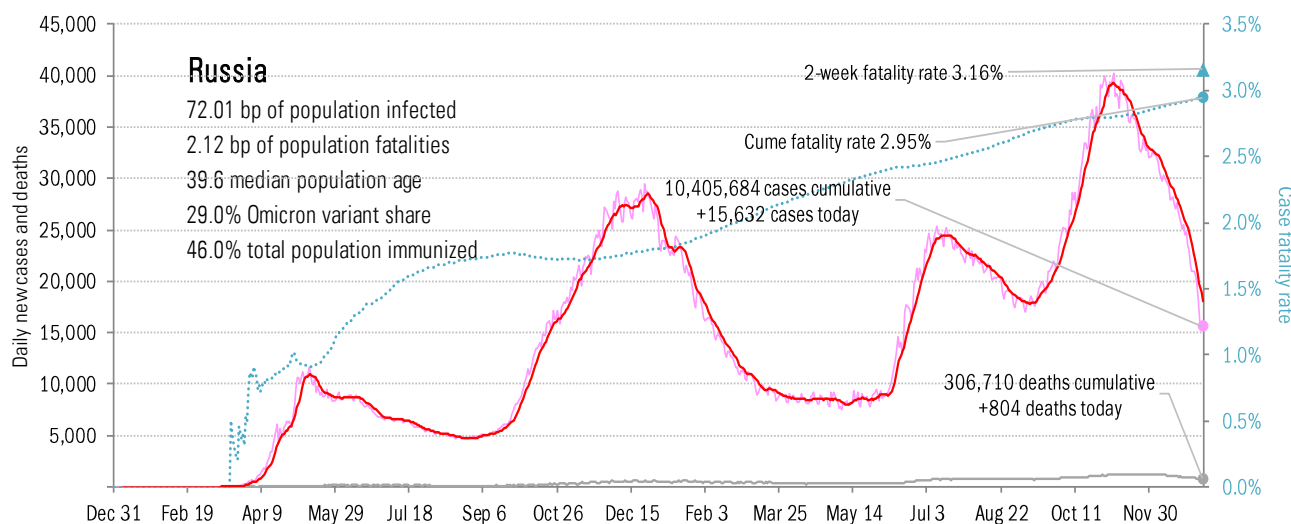
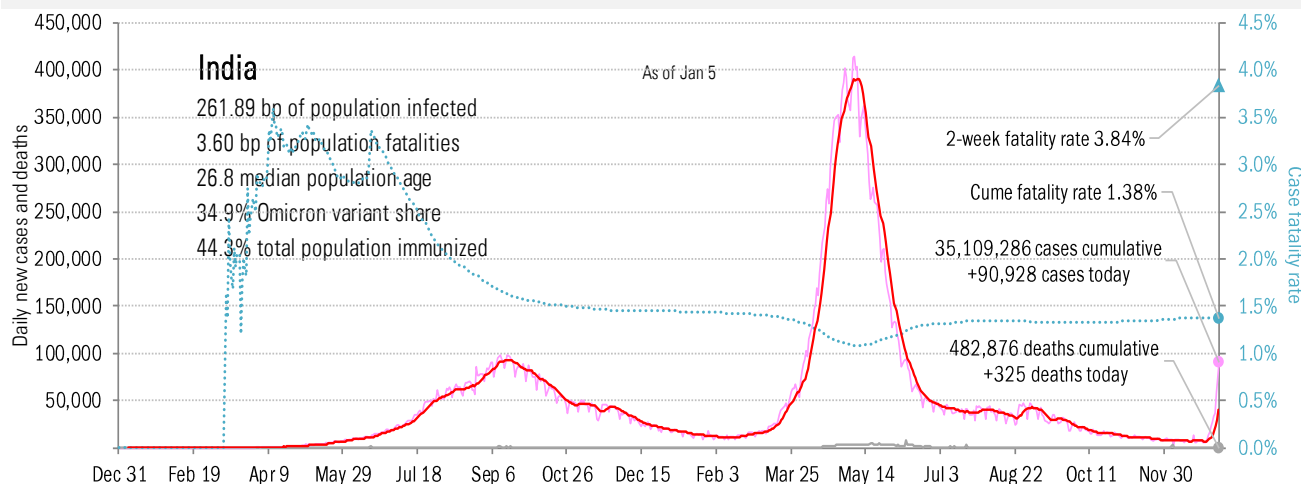
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

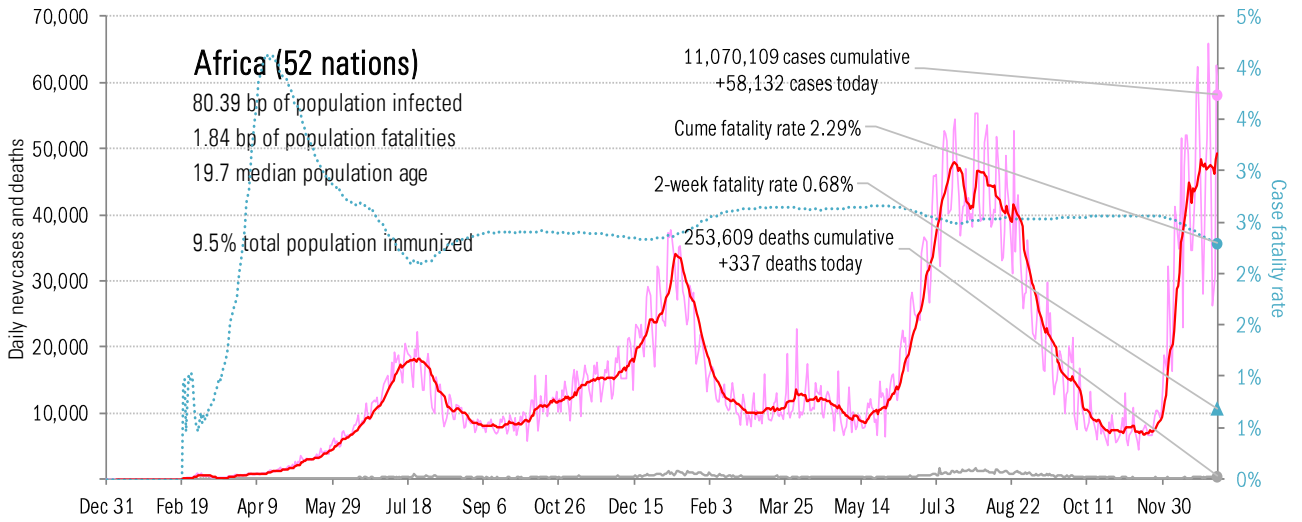
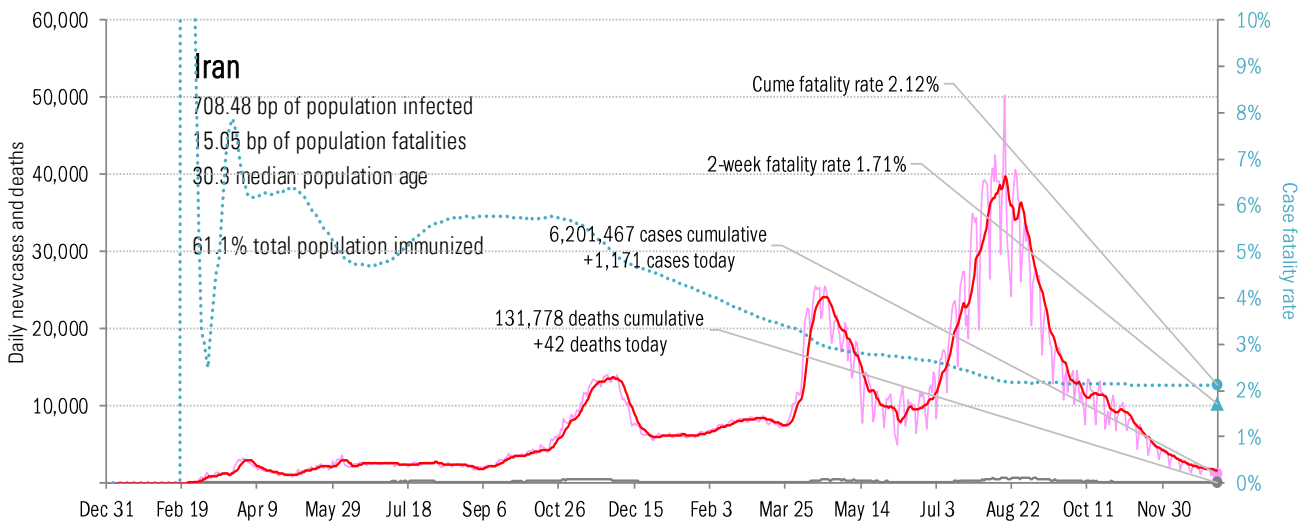
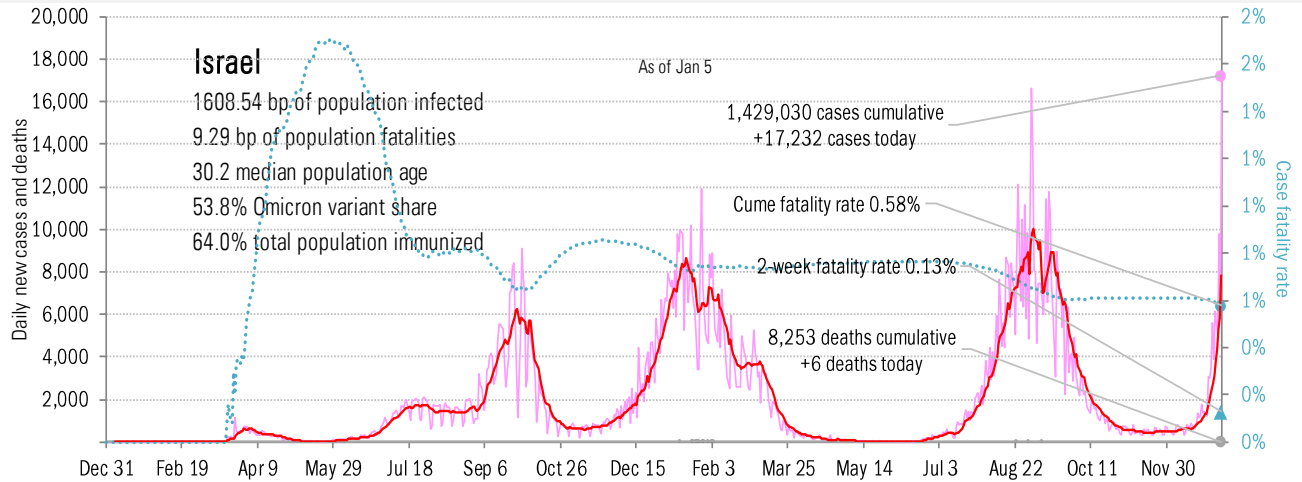
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

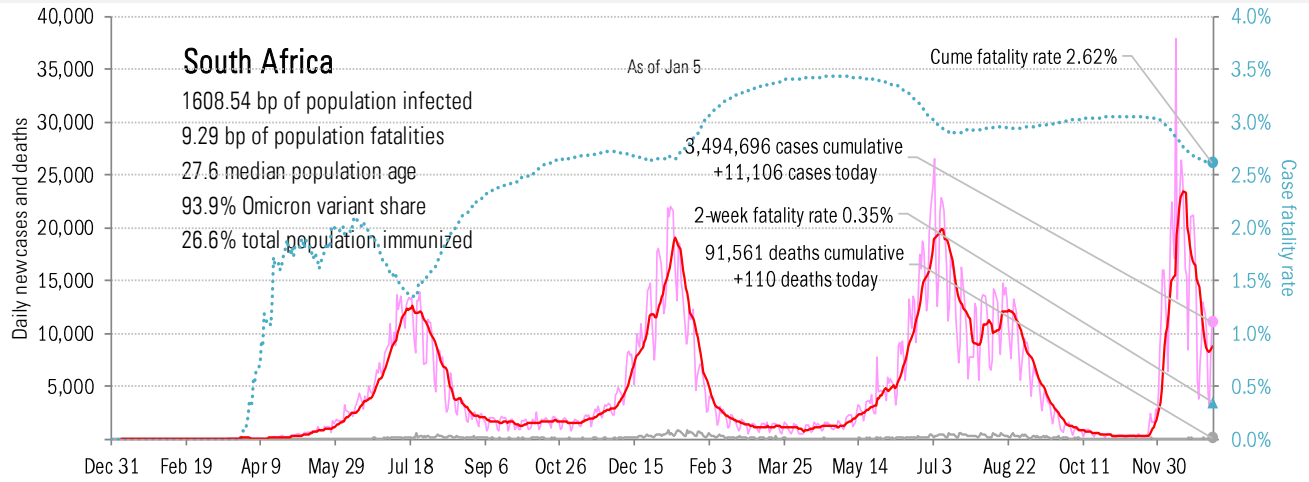
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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