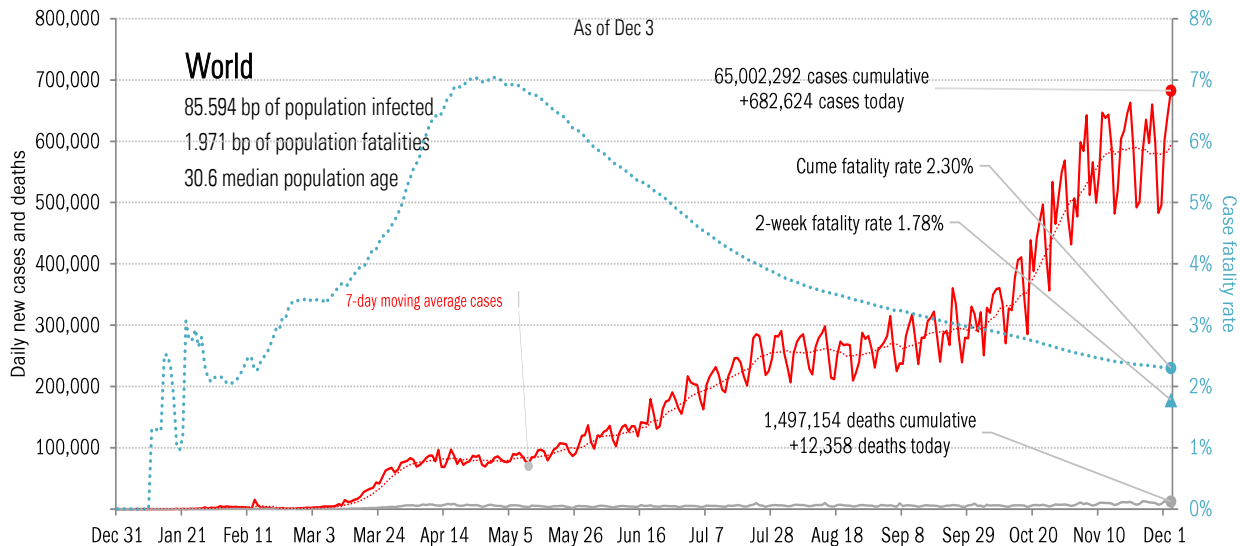
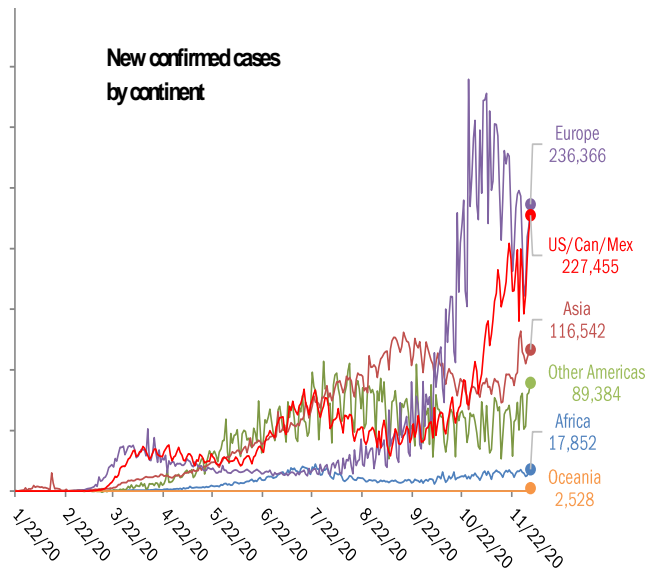


## Data Insights: Covid-2019 Monitor

Friday, December 4, 2020

### The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+210,161	United States	+2,706
Brazil	+50,434	Italy	+993
India	+36,595	Brazil	+755
Turkey	+32,381	Poland	+620
Russia	+27,829	Mexico	+608
Germany	+23,591	Russia	+543
Italy	+23,219	India	+540
United Kingdom	+14,951	Germany	+438
Poland	+14,863	United Kingdom	+414
Ukraine	+14,812	Iran	+358
<b>+448,836</b>		<b>+7,975</b>	
World	+682,624	World	+12,358
Top ten	66%	Top ten	65%



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

#### For more information contact us:

Donald Luskin: 312 273 6766 [don@trendmacro.com](mailto:don@trendmacro.com)  
 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

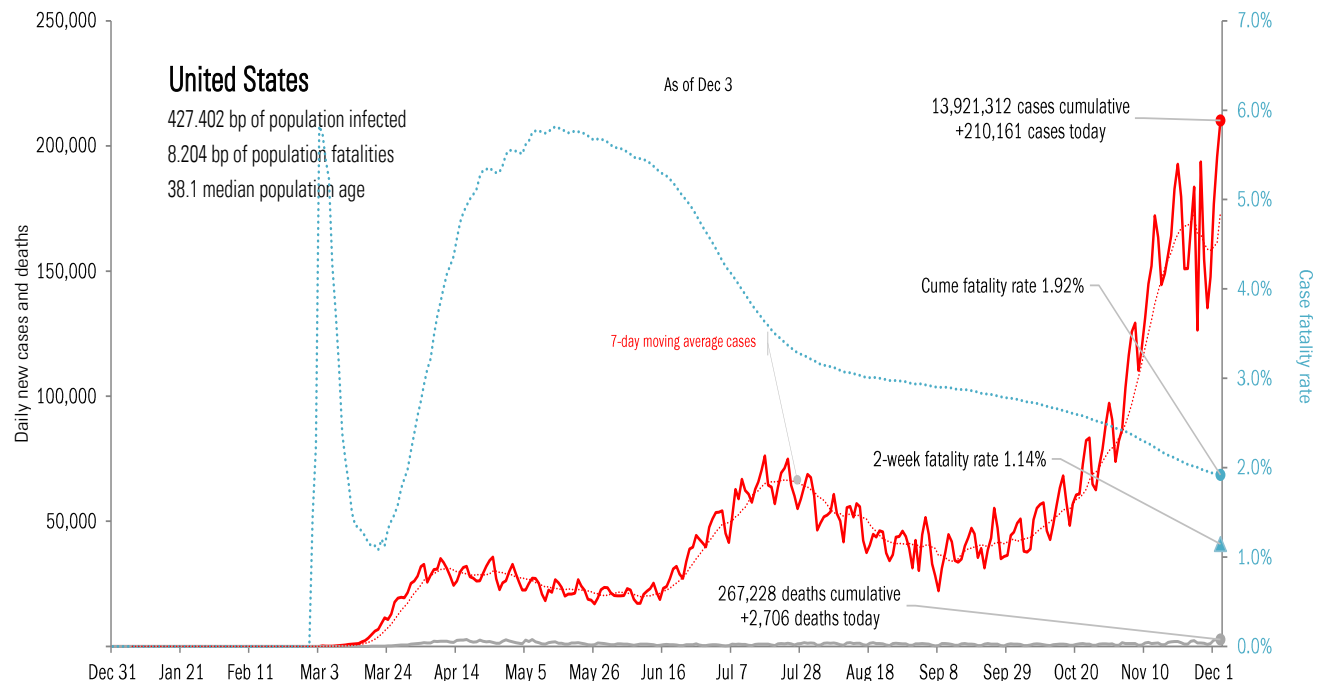
## The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
CA	+18,591	TX	+244	CA	+337	CA	1,264,539	NY	26,955	NY	89,995
TX	+14,439	IL	+228	NY	+139	TX	1,215,113	TX	22,000	FL	56,527
PA	+11,406	MI	+193	SC	+135	FL	1,012,456	CA	19,437	NJ	41,987
IL	+10,959	PA	+187	MO	+107	IL	759,562	FL	19,112	GA	35,571
FL	+10,656	CA	+113	PA	+89	NY	674,093	NJ	17,209	CH	28,281
NY	+9,855	FL	+100	MN	+66	CH	446,849	IL	13,625	AZ	27,456
CH	+8,921	TN	+93	MA	+65	GA	433,353	PA	10,944	IN	27,236
IN	+8,460	MN	+92	NC	+62	WI	426,534	MA	10,874	AL	26,062
MI	+7,957	AZ	+82	GA	+47	MI	410,843	MI	10,035	MD	21,558
MA	+6,675	CH	+82	AZ	+44	TN	388,252	GA	9,648	WI	17,741
<b>+107,919</b>		<b>+1,414</b>		<b>+1,091</b>		<b>7,031,594</b>		<b>159,839</b>		<b>372,414</b>	
All states	+210,161	All states	+2,706	All states	+441	All states	13,921,312	All states	267,228	All states	575,452
Top ten	51%	Top ten	52%	Top ten	247%	Top ten	51%	Top ten	60%	Top ten	65%

*Some states not reporting*

## Five most improved US states

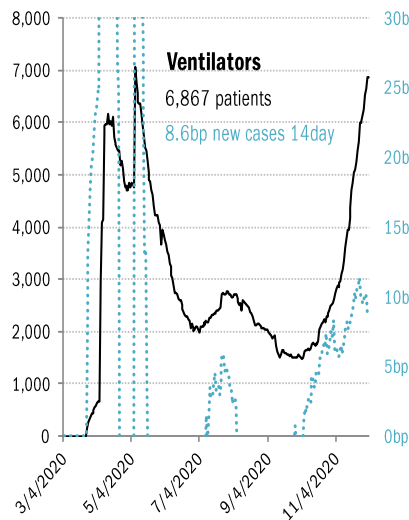
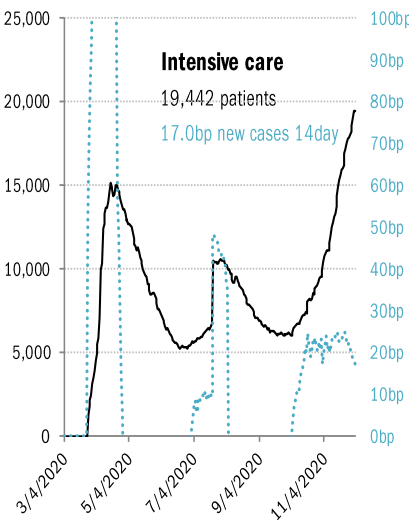
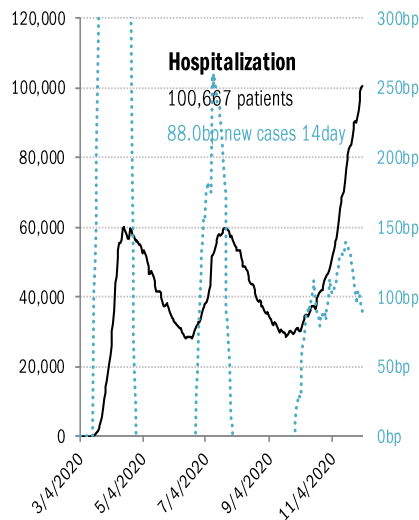
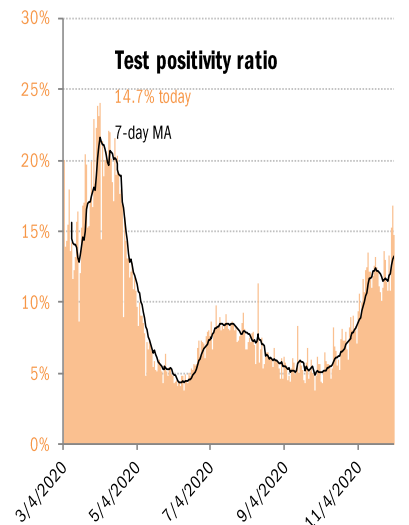
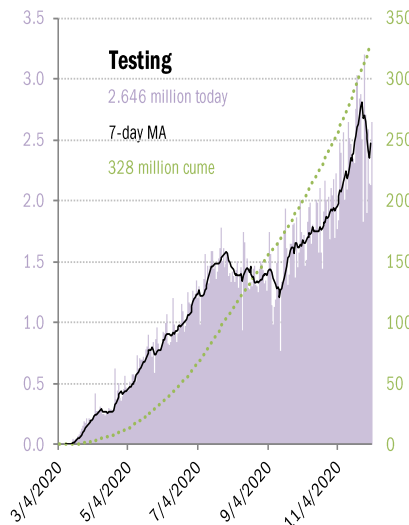
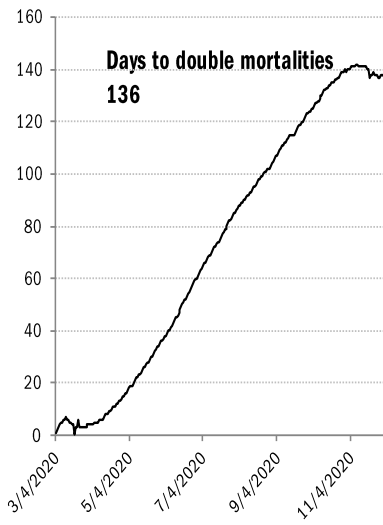
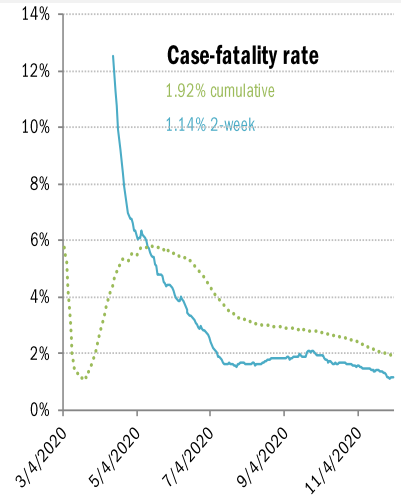
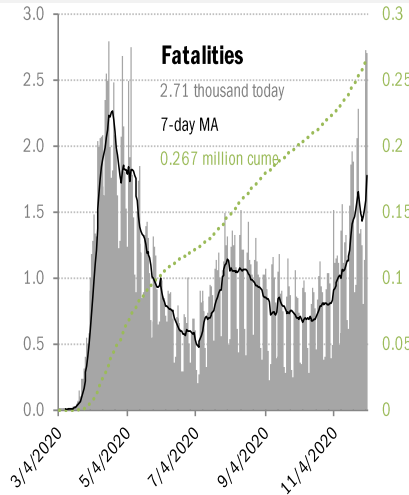
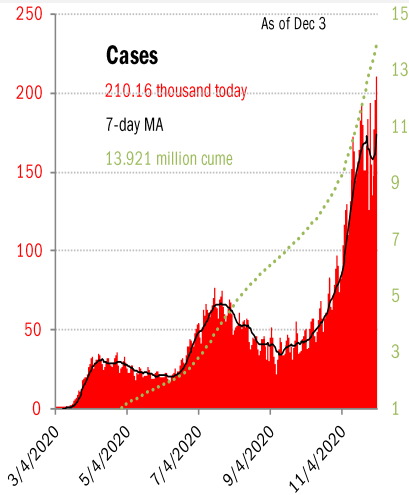
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
KS	-4,615	KS	-119	KS	-684	MA	+14,336
CA	-2,168	IN	-49	TN	-155	TX	+9,990
TX	-1,985	CH	-41	NJ	-153	CH	+8,564
OK	-1,152	IL	-38	PA	-149	WI	+5,838
LA	-852	NC	-38	OK	-112	IN	+5,497



Source: [Covid Tracking Project](#), TrendMacro calculations

# US deep-dive

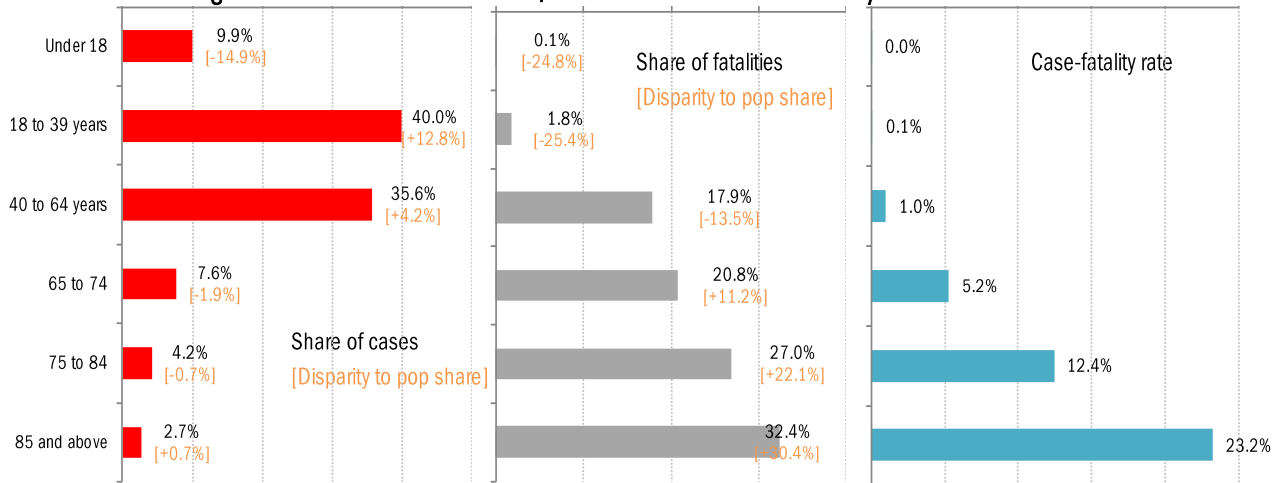
National and state-by-state data do not line up because of different sources



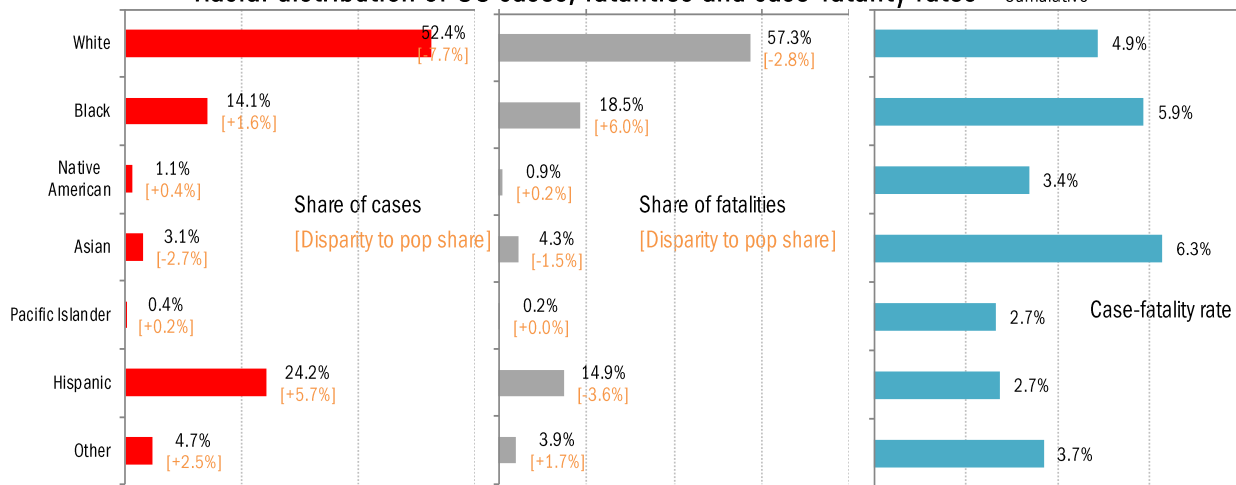
Source: [Covid Tracking Project](https://covidtracking.com), TrendMacro calculations

# US deep-dive on the demographics of age, race and health

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

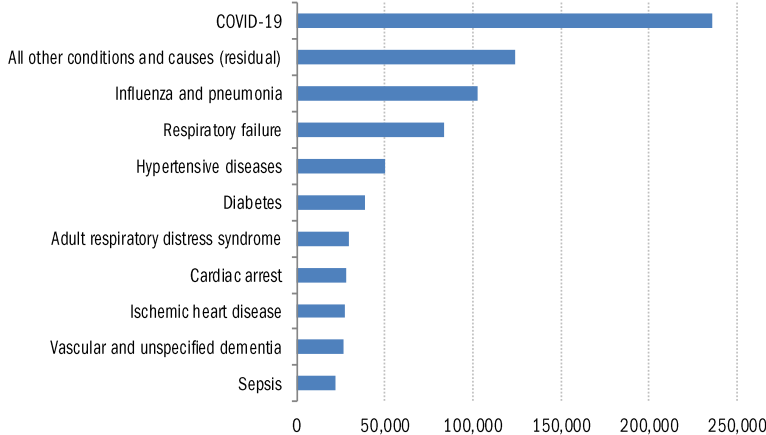


## Racial distribution of US cases, fatalities and case-fatality rates



## Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



For 6% of the deaths, COVID-19 was the only cause mentioned. For deaths with conditions or causes in addition to COVID-19, on average, there were 2.6 additional conditions or causes per death.

Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

## Recommended reading

### [Unemployment Bonus Proves Its Harm](#)

Casey B. Mulligan and Stephen Moore  
*Wall Street Journal*  
December 3, 2020

### [The FDA's Political Inoculation](#)

*Wall Street Journal*  
December 3, 2020

### [As Pasadena sees dining rush, other cities consider their own health departments](#)

Bradley Bermont  
*Los Angeles Daily News*  
November 30, 2020

### [Is Coronavirus \(COVID-19\) Exploiting Zinc Deficiency?](#)

Anthony A. Perri  
*Insider Baseball*  
April 27, 2020

### [Los Angeles Mayor Issues Order for Residents to Stay Home](#)

Angus Whitley  
*Bloomberg*  
December 3, 2020

### [Nursing Homes and Covid Fatalities: The Empirical Relationship](#)

Stephen C. Miller  
*American Institute for Economic Research*  
December 2, 2020

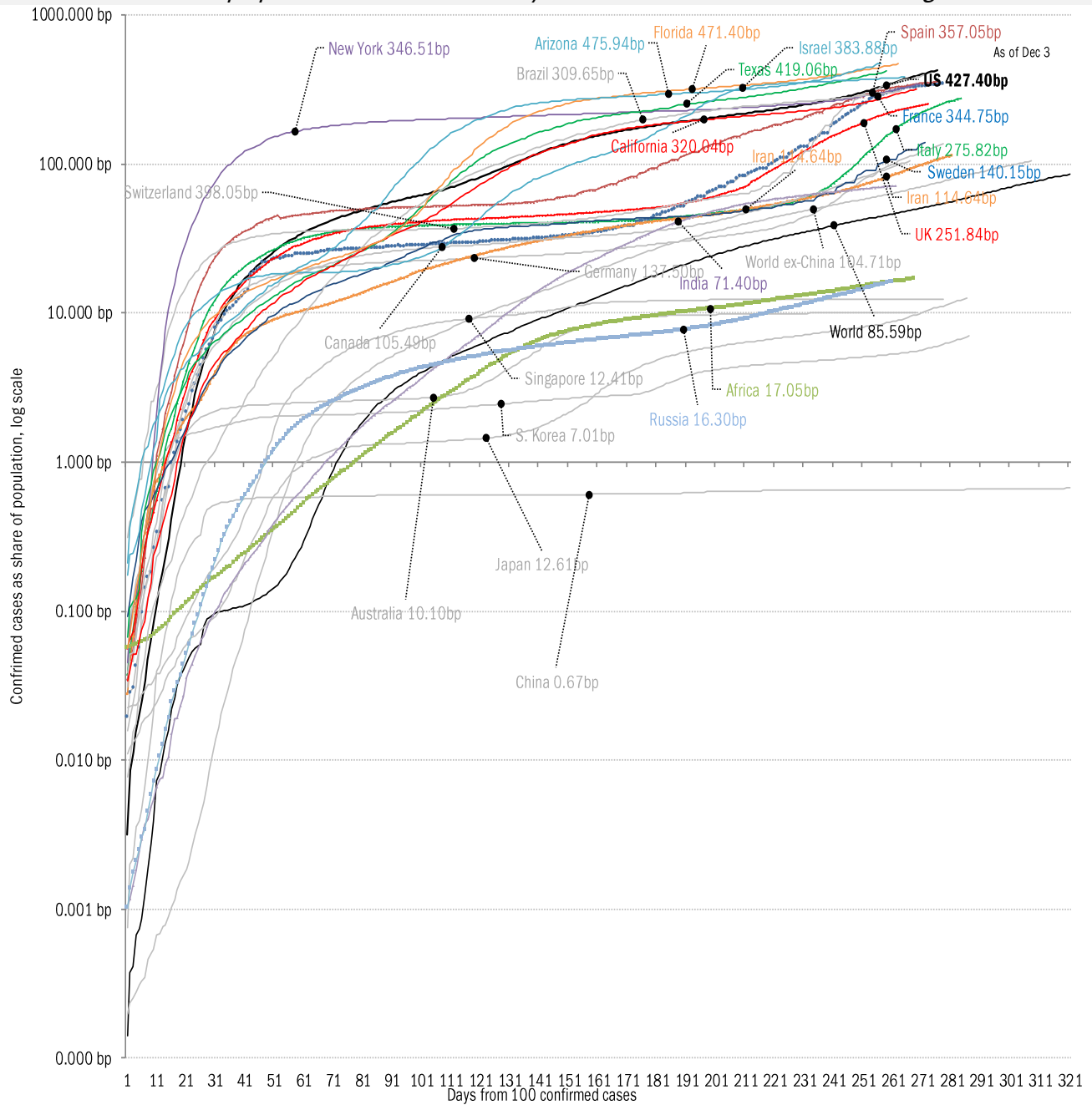
## Meme of day



**Government Prepares For Next Pandemic By  
Taking Away Everyone's Rights Ahead Of Time**

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

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

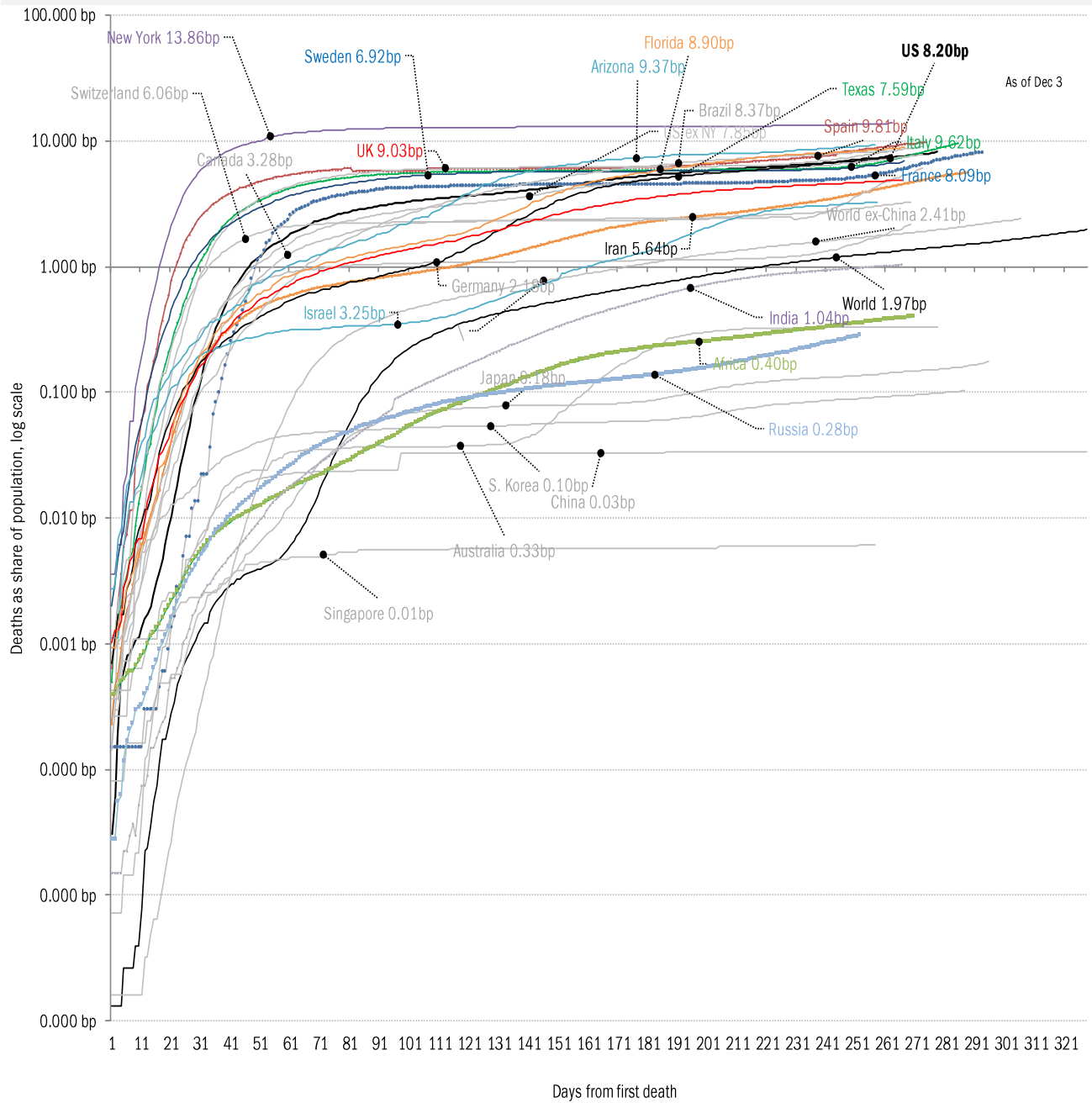


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations



# The coronavirus mortality accelerometer ... tracking the world's fatality curves

## Share of deceased population from day of first fatality

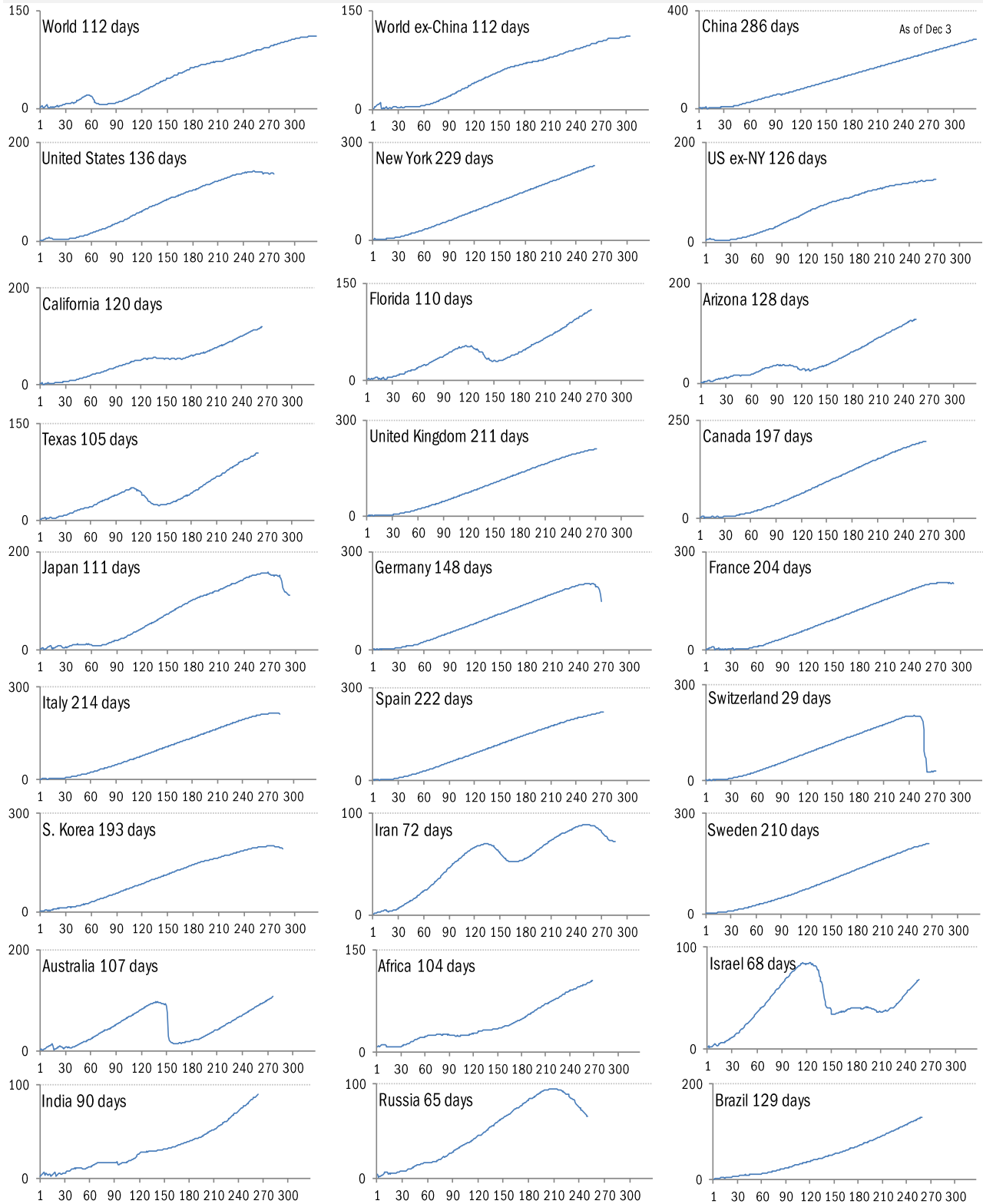


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

# "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, Covid Tracking Project](#), 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: [Covid Tracking Project](#), 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



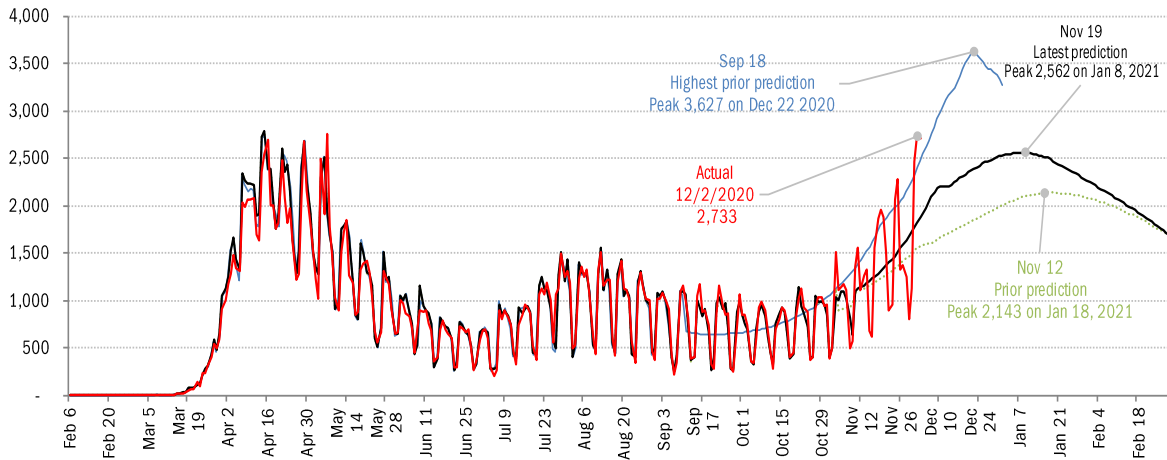
Source: [Covid Tracking Project](#), TrendMacro calculations

# Reality-checking the models: actuals versus [IHME](#) predictions

## New daily fatalities

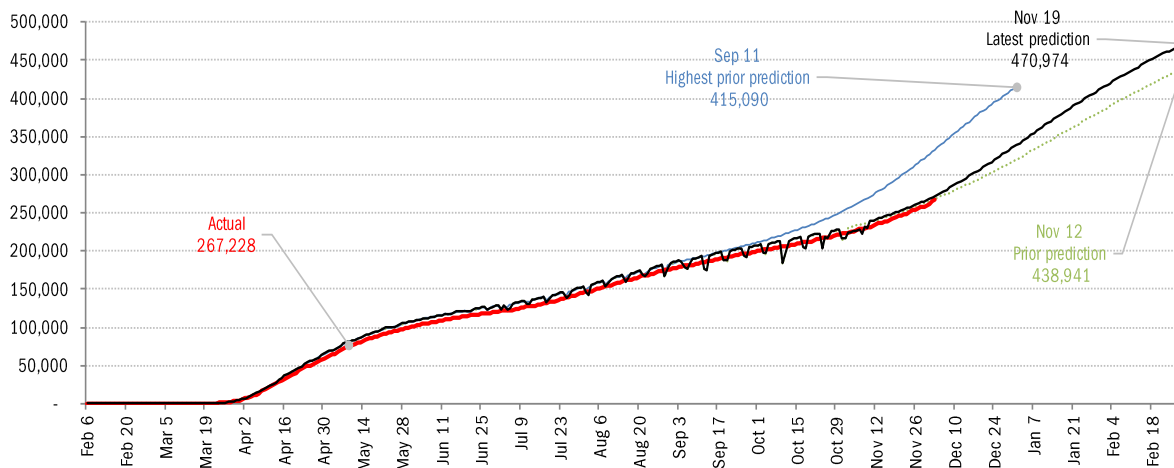
As of Dec 3

Actual versus first, highest, lowest and latest model mean predictions

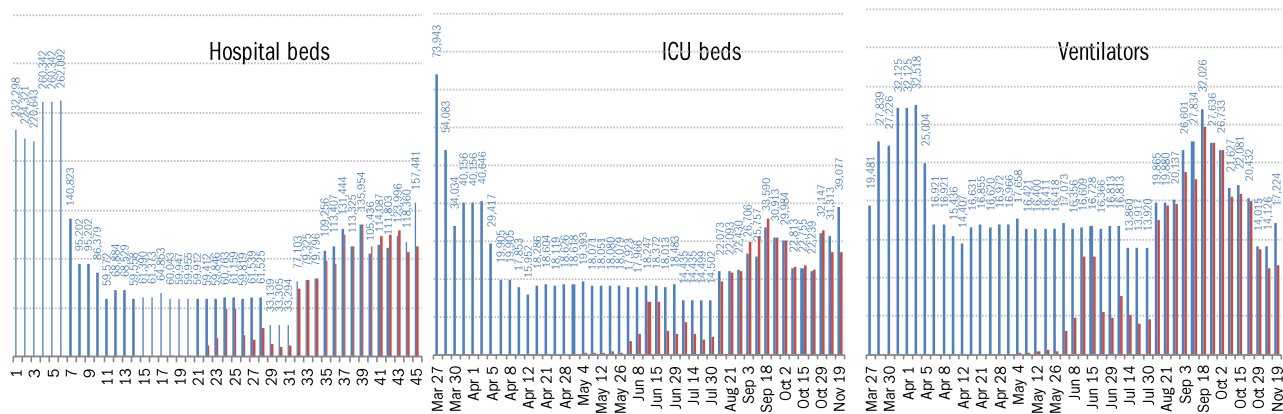


## Cumulative fatalities

Actual versus first, highest, lowest and latest model mean predictions

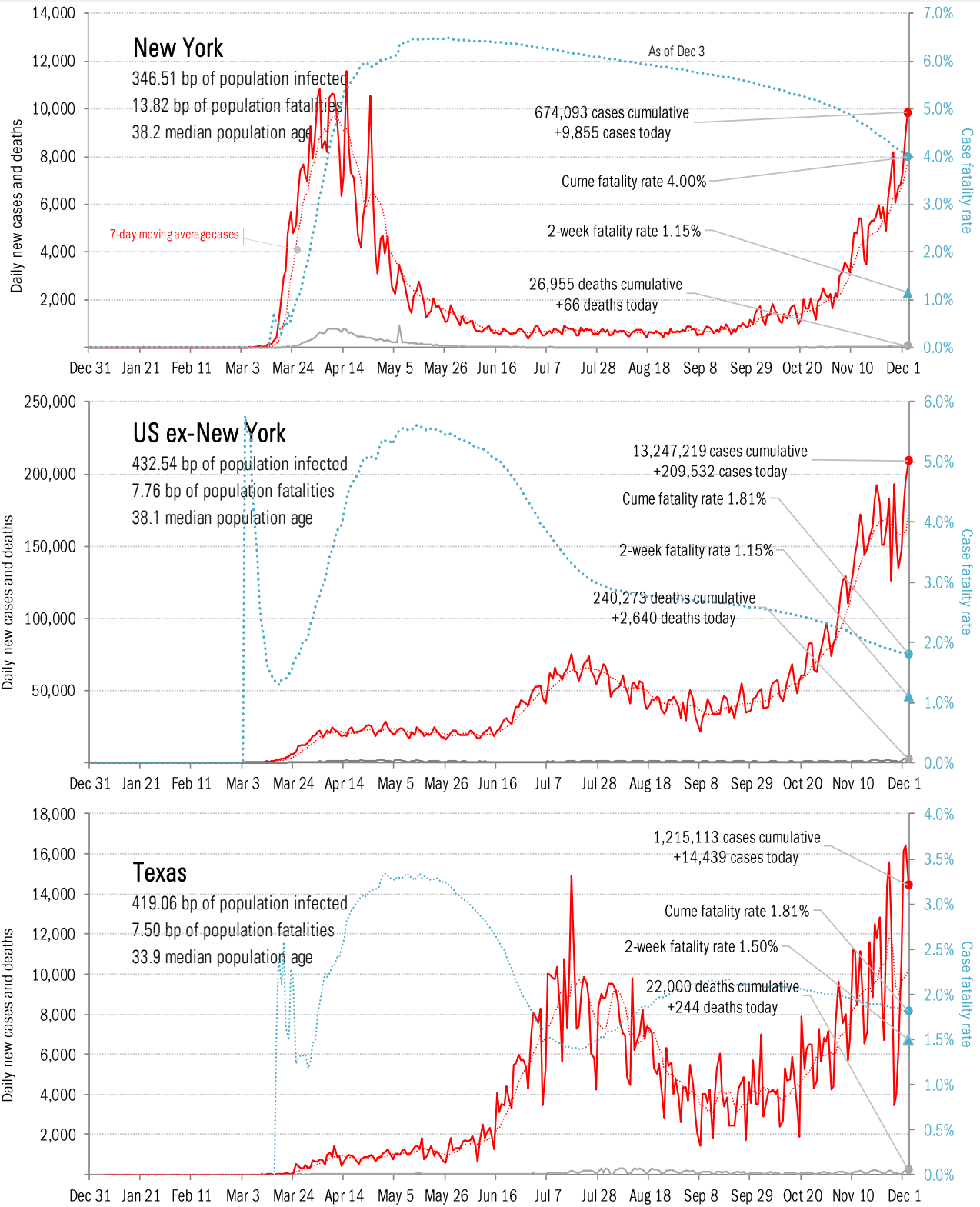


## Healthcare system stress, **peak** and **ultimate** estimated at each model revision



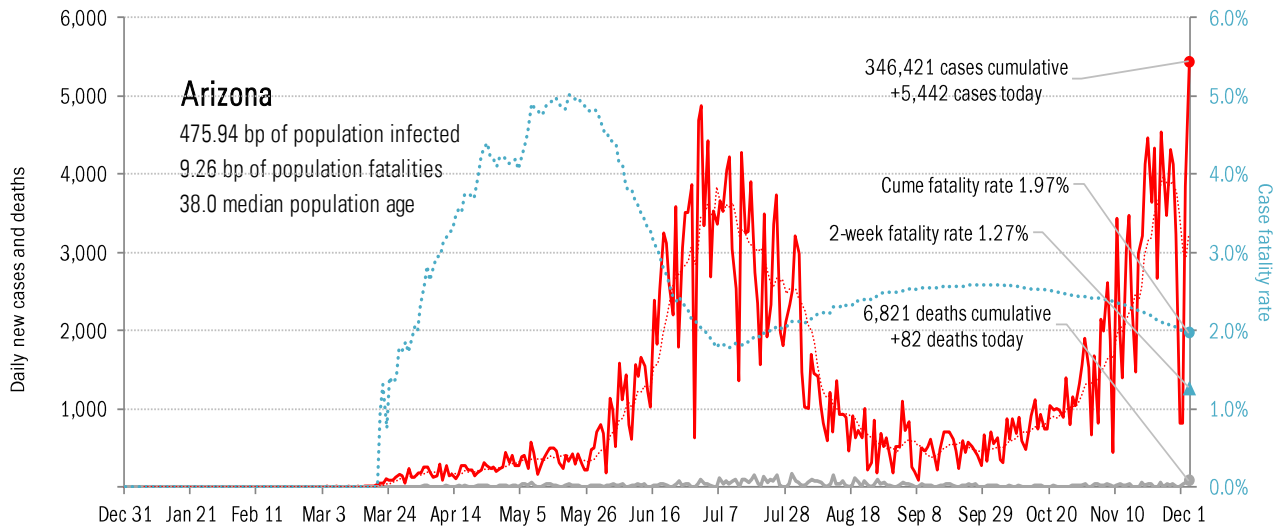
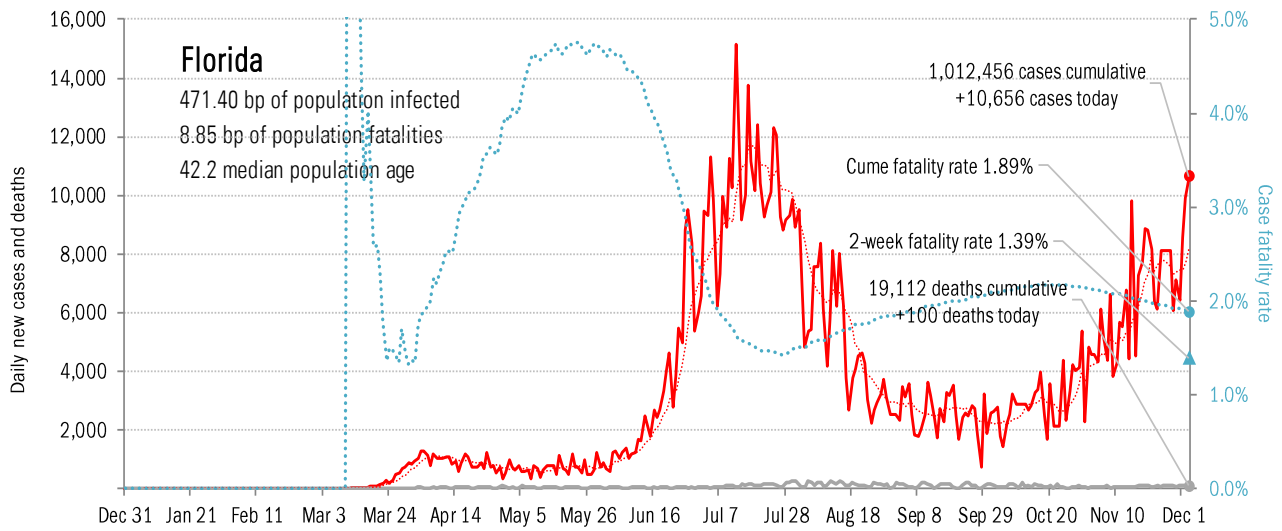
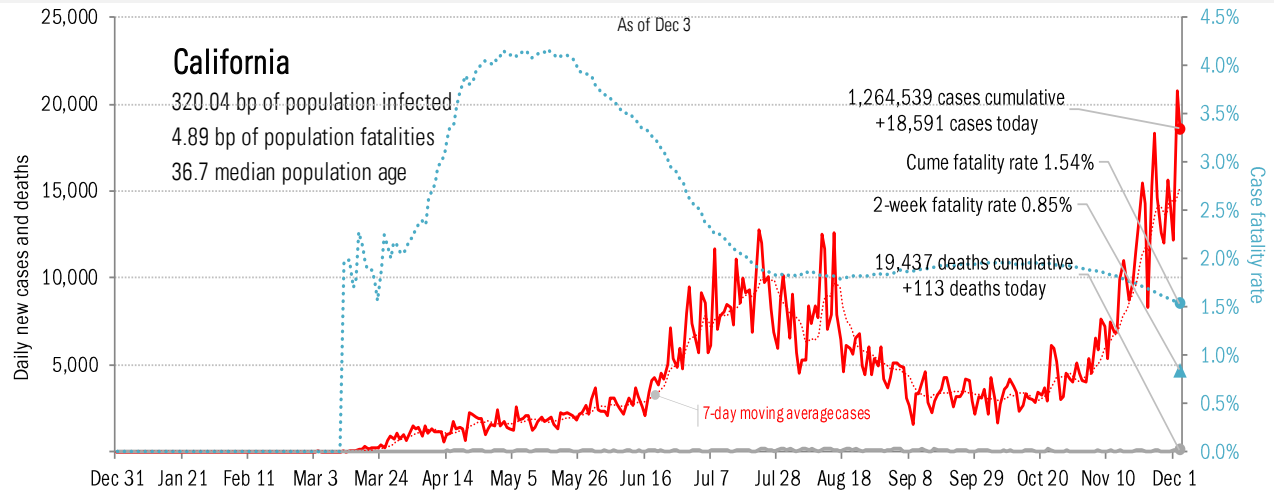
Source: [IHME](#), [Covid Tracking Project](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



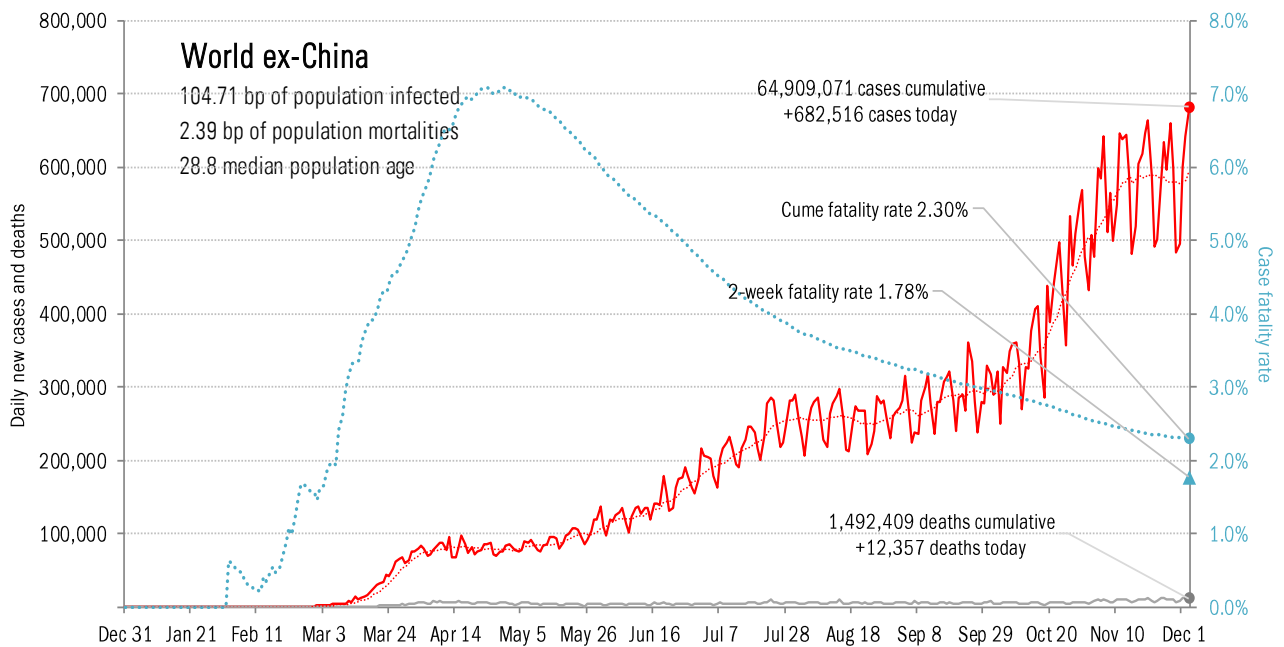
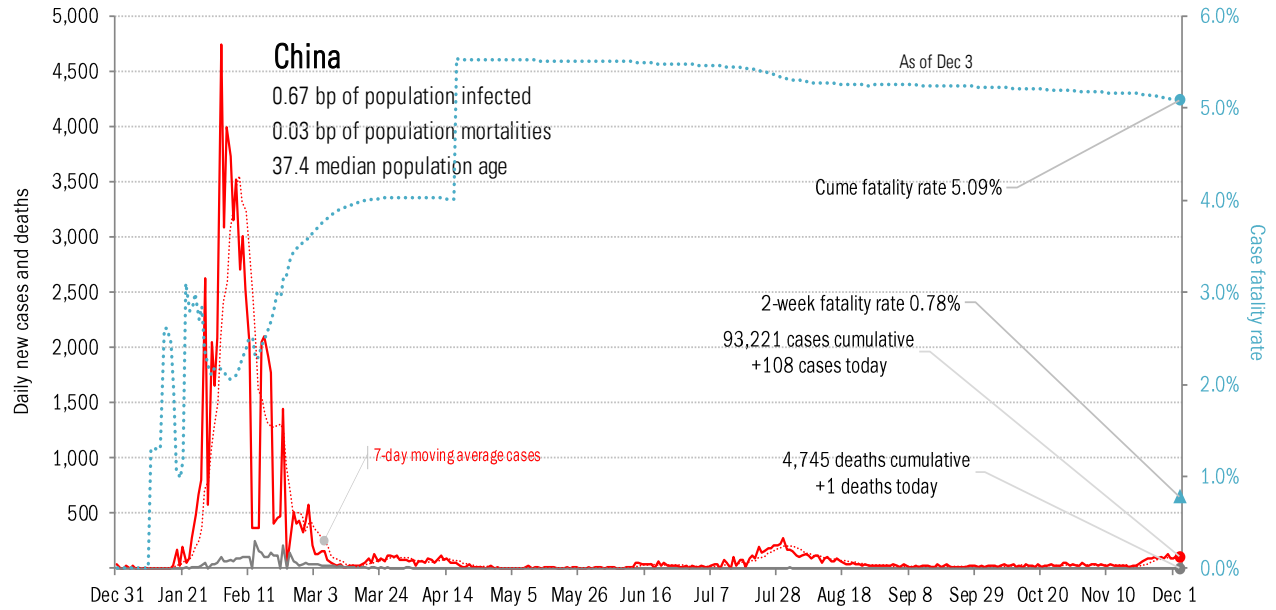
Source: [Covid Tracking Project](#), TrendMacro calculations

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



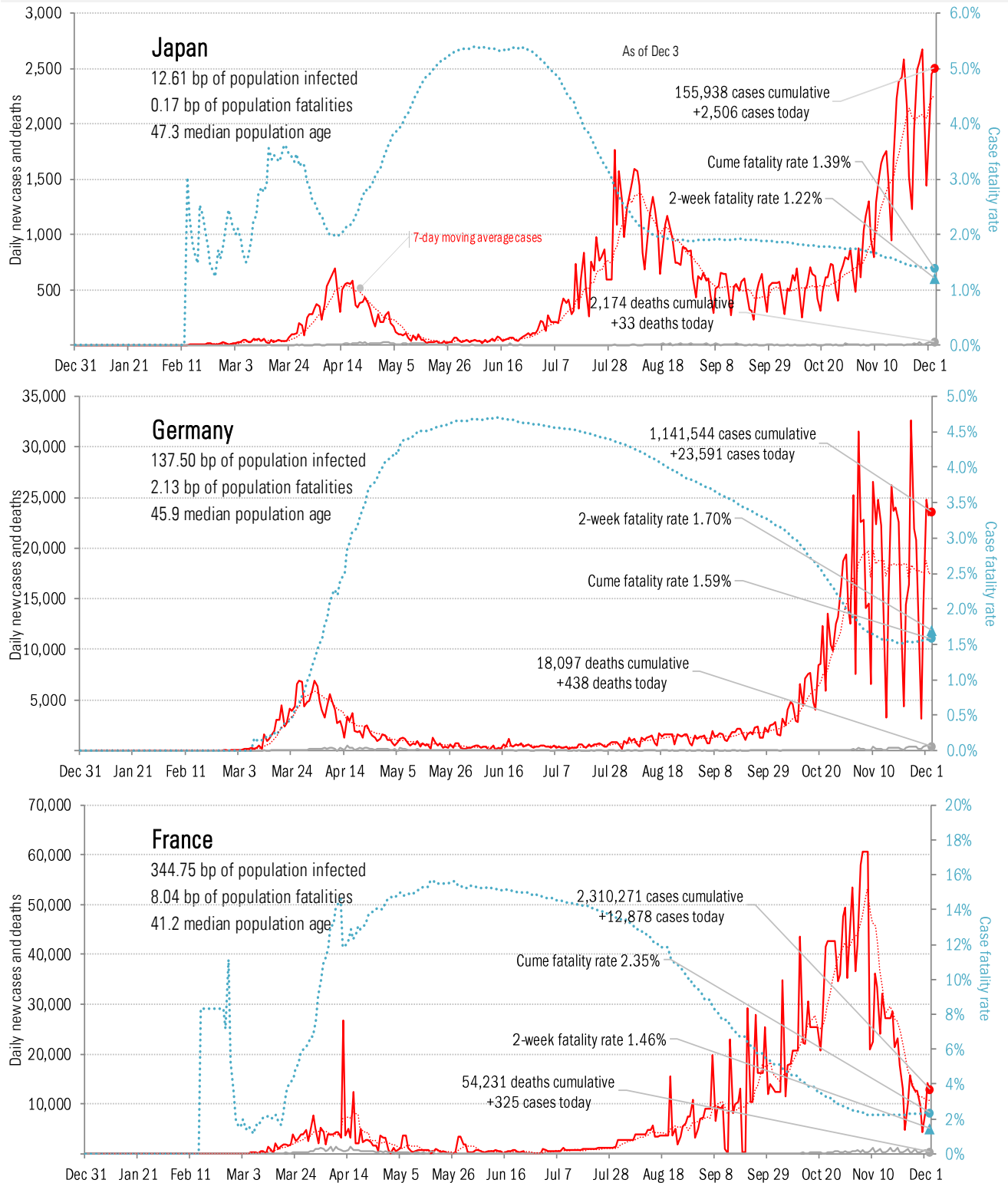
Source: [Covid Tracking Project](#), TrendMacro calculations

# Patient zero... and then everyone else



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

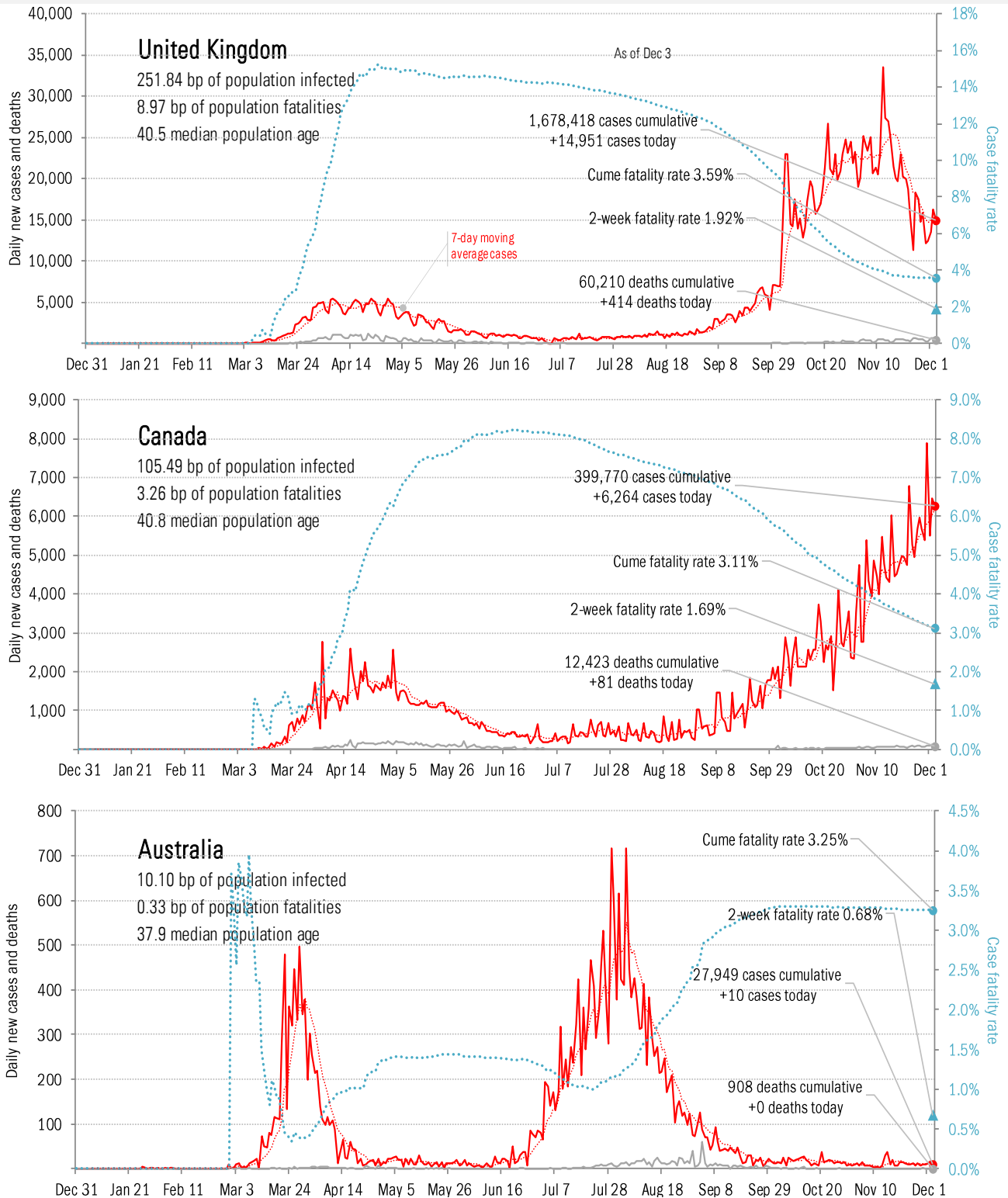
# Impact in the largest economies



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

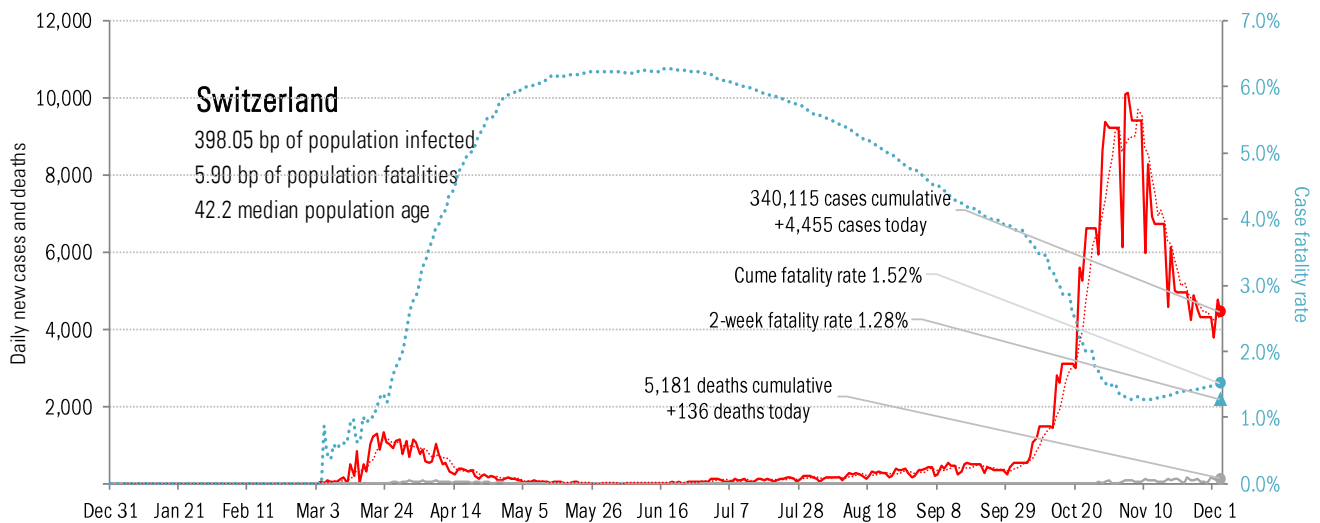
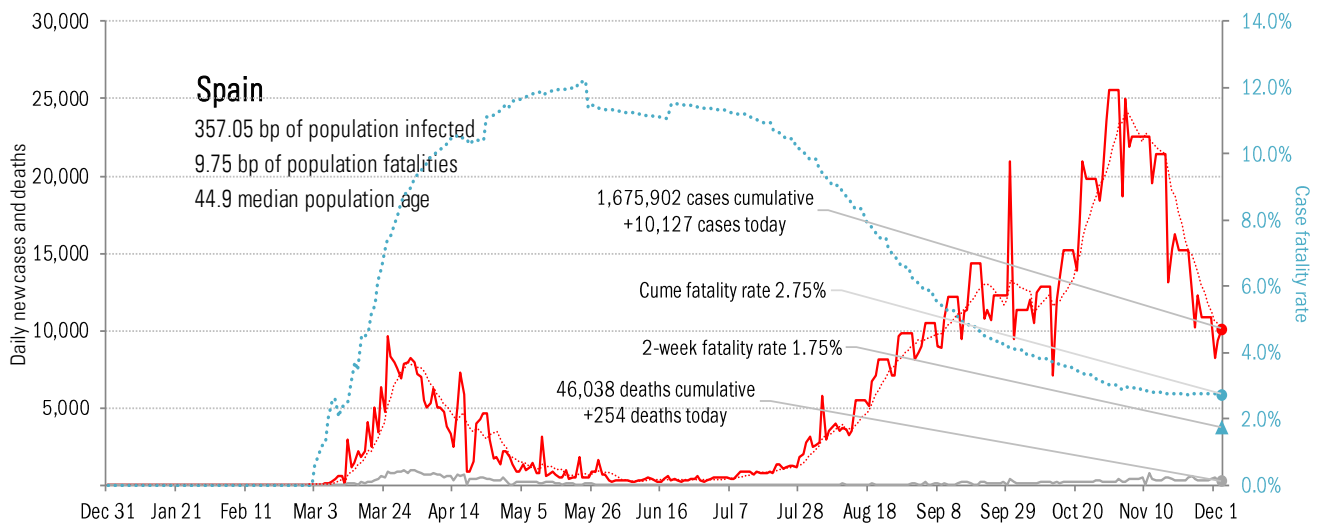
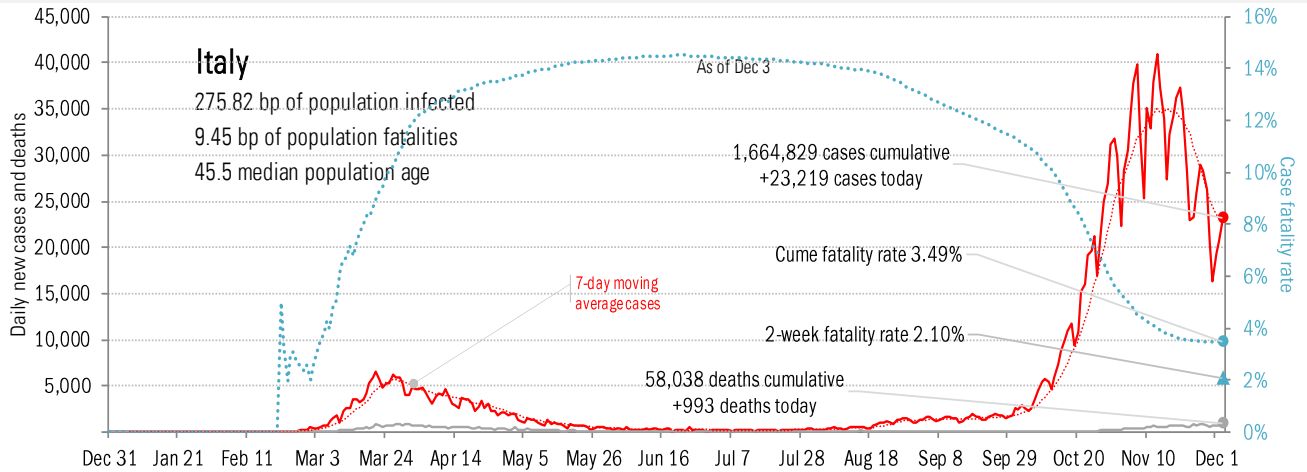


# Impact in The Anglosphere



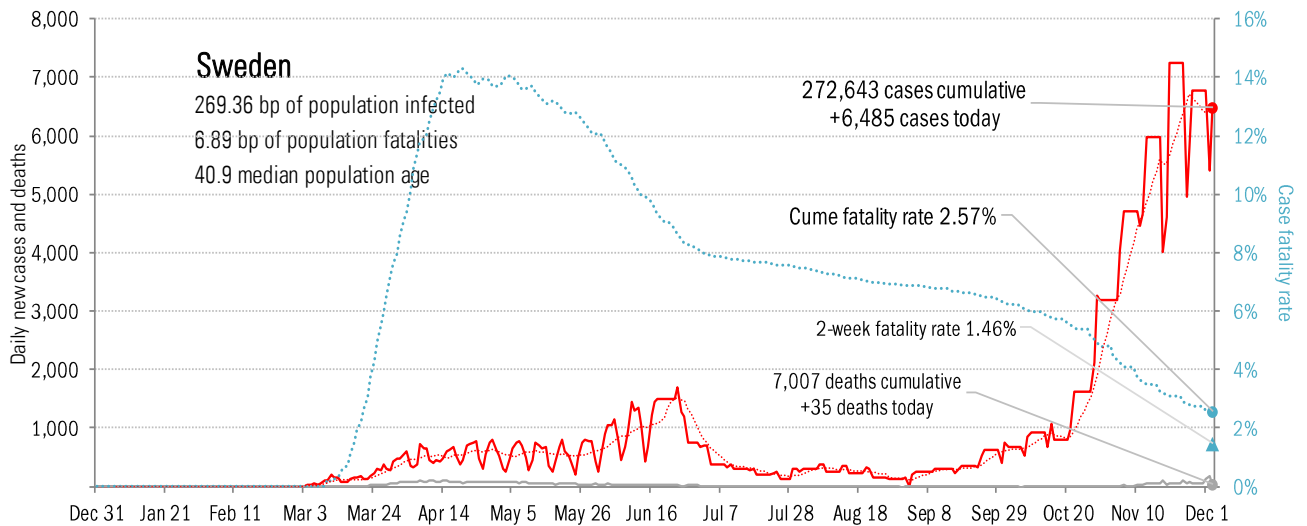
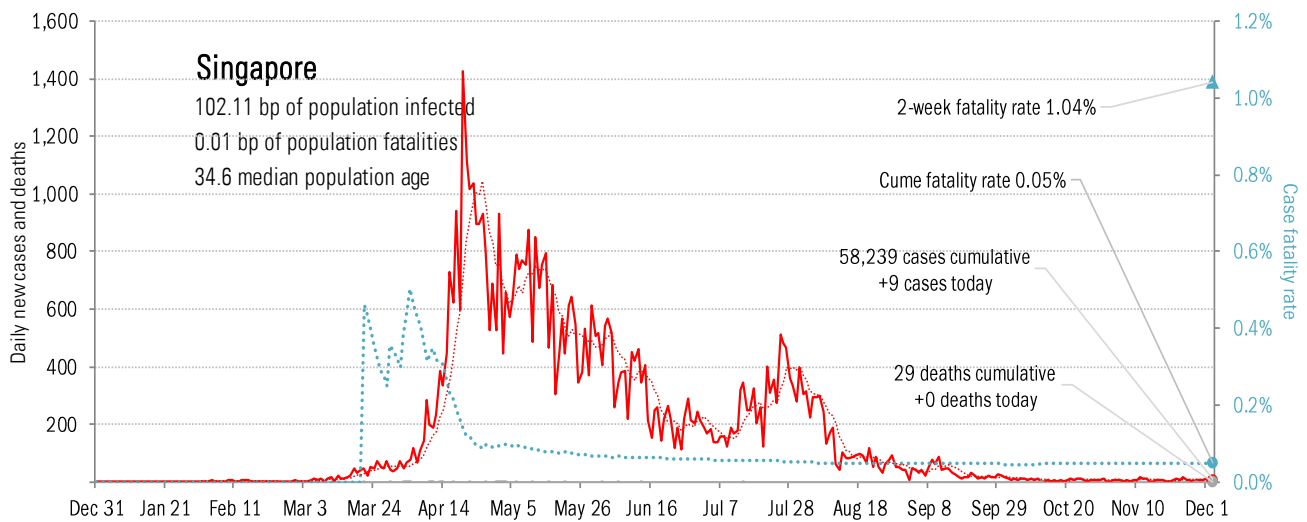
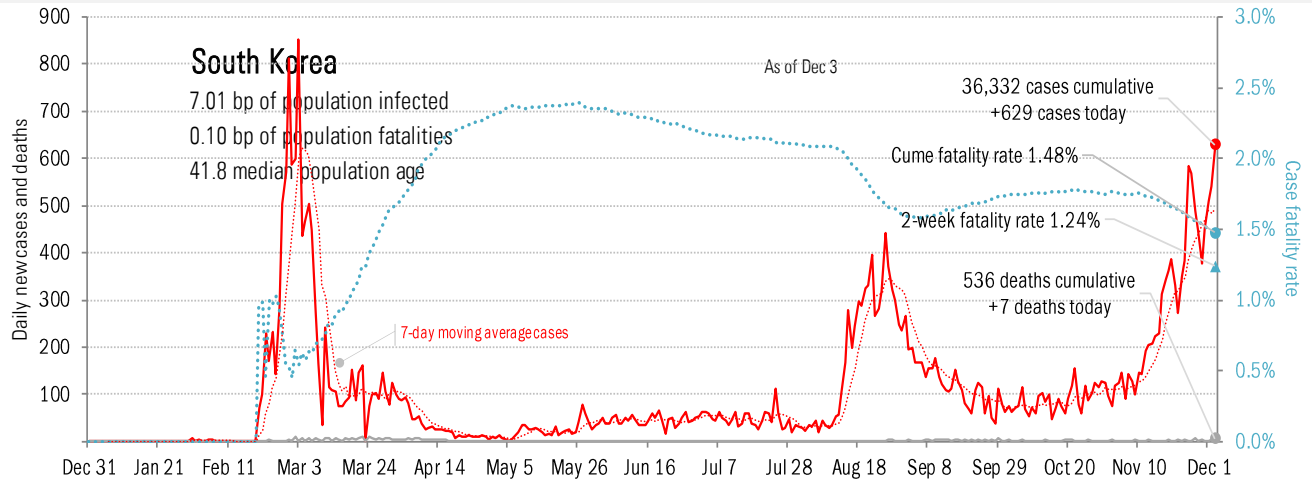
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in continental Europe



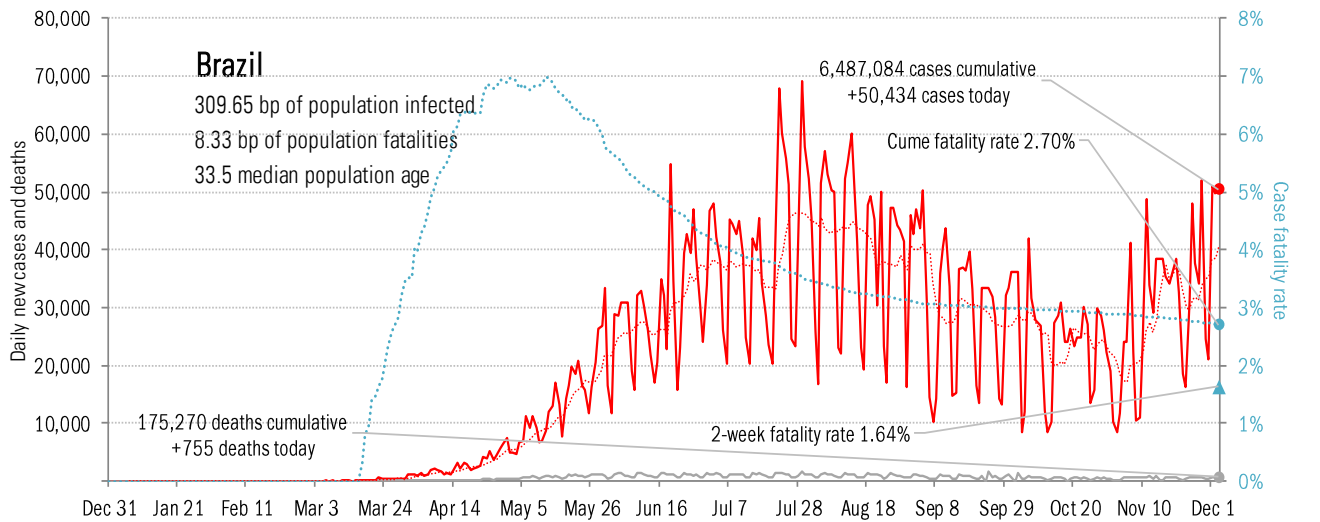
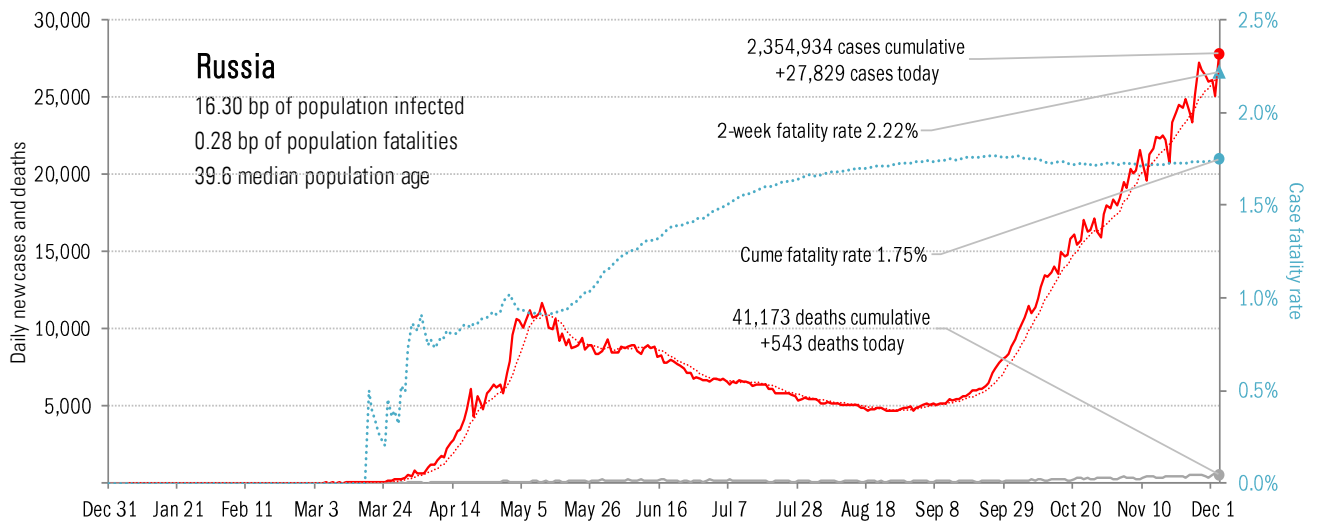
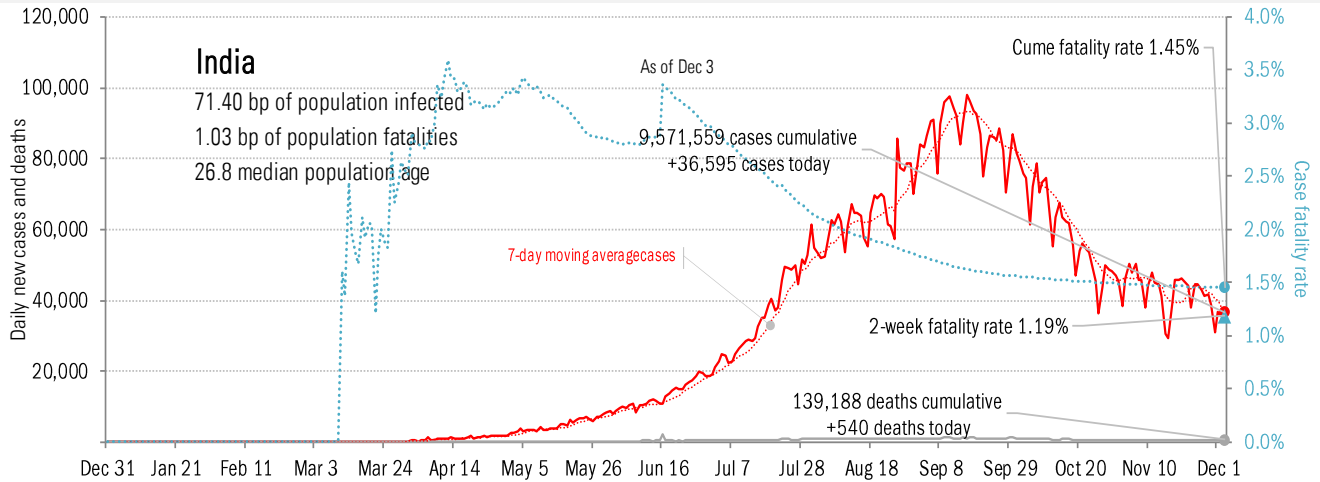
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



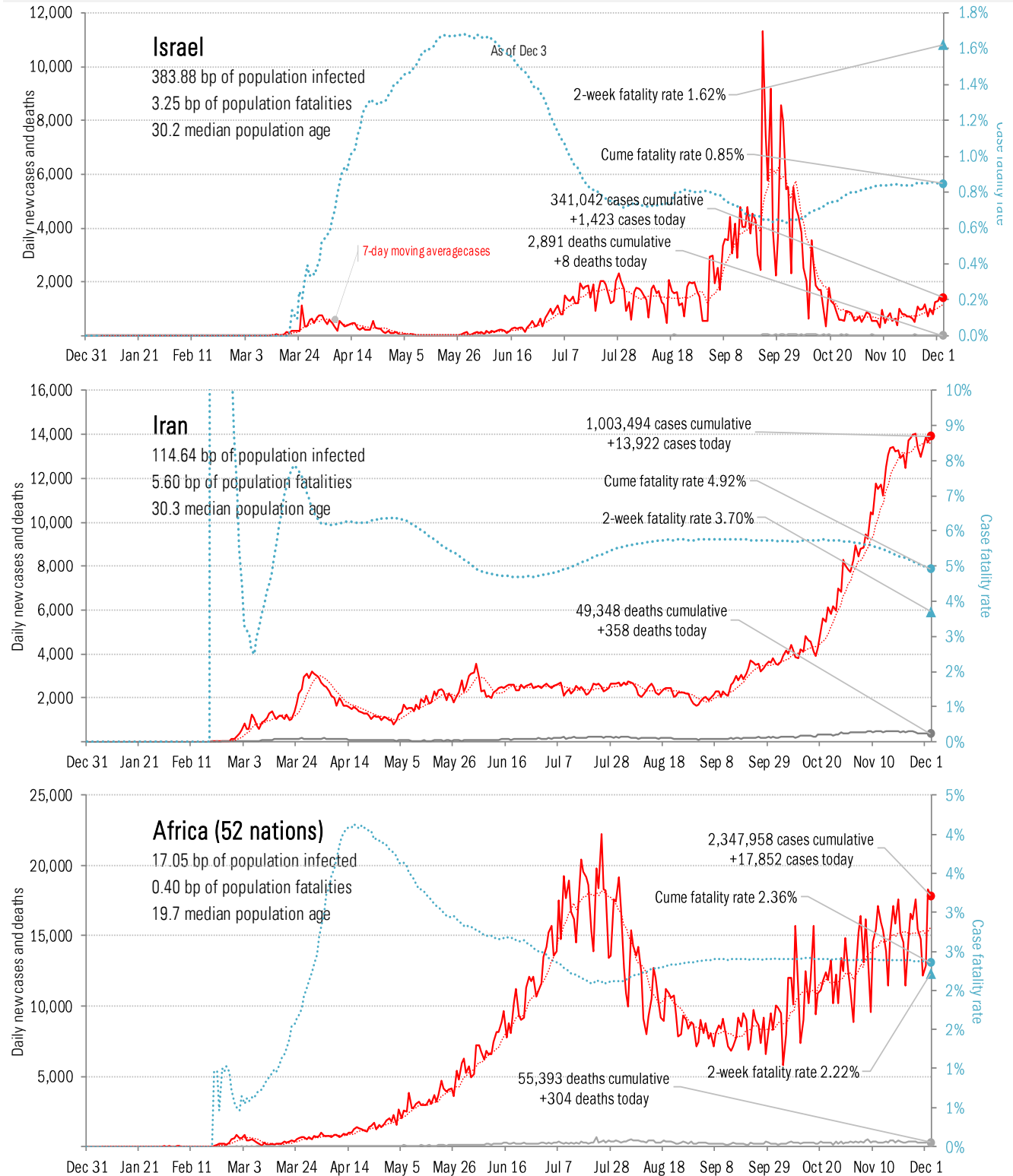
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



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

# Impact in the Middle East and Africa



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