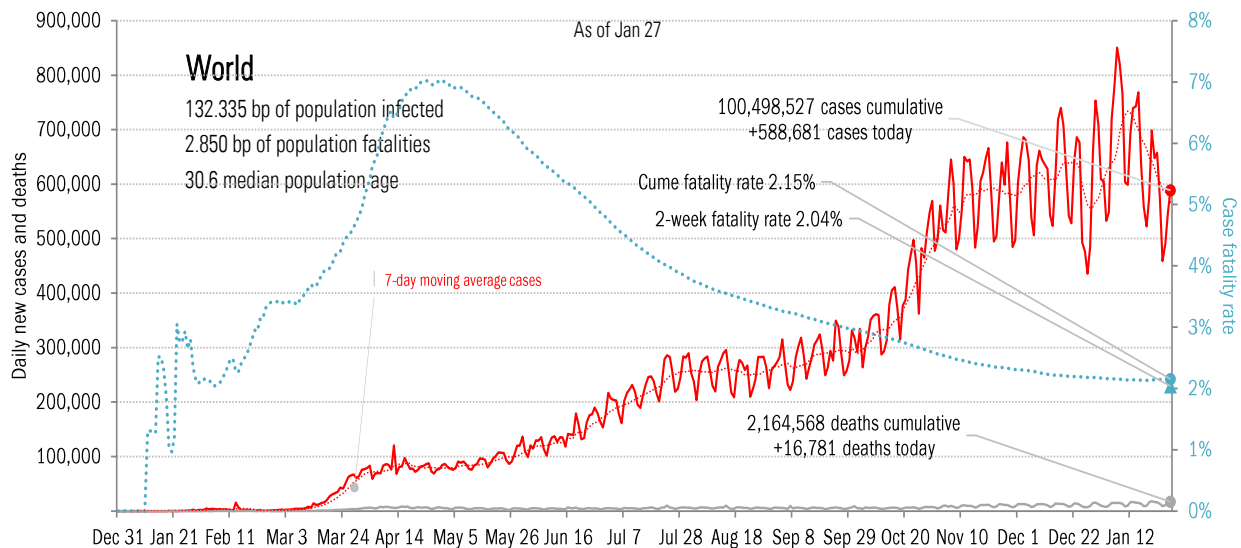
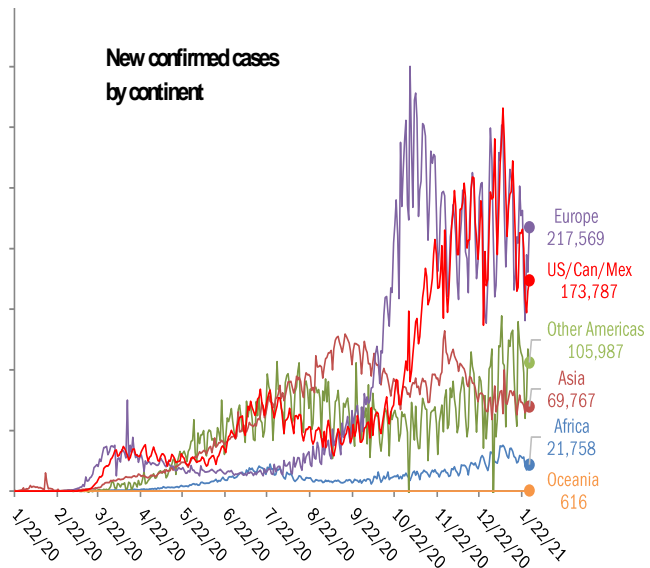


## Data Insights: Covid-2019 Monitor

Thursday, January 28, 2021

### The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+151,675	United States	+4,077
Brazil	+63,520	United Kingdom	+1,726
Spain	+40,285	Mexico	+1,623
France	+26,951	Brazil	+1,283
United Kingdom	+25,369	Germany	+879
Mexico	+17,944	South Africa	+753
Russia	+17,464	Russia	+580
Germany	+15,636	Spain	+497
Italy	+15,191	Italy	+467
Portugal	+15,073	Colombia	+395
	+389,108		+12,280
World	+588,681	World	+16,781
Top ten	66%	Top ten	73%



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

#### For more information contact us:

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 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

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# The US scorecard

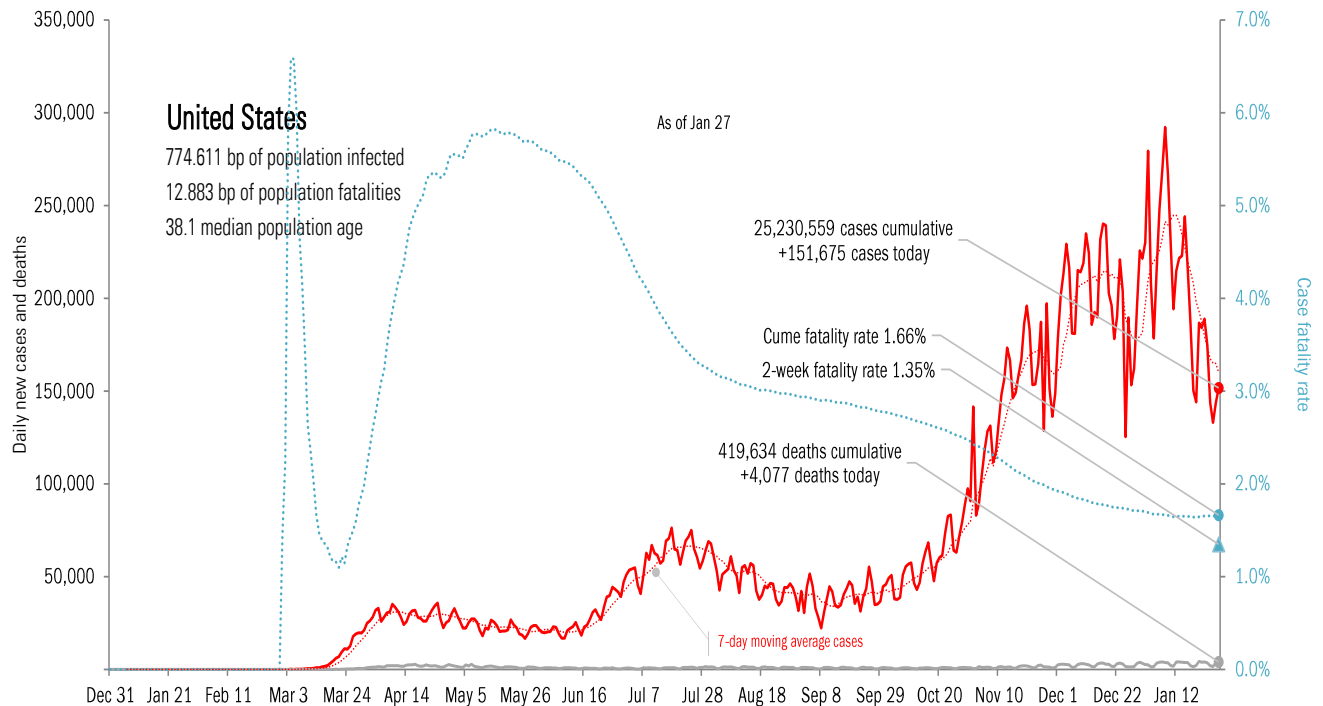
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
TX	+19,613		CA	+697		ID	+72		CA	3,169,914		CA	38,224		NY	89,995		R	89%	AL	92%
CA	+16,728		TX	+467		MS	+40		TX	2,292,732		TX	35,168		FL	72,215		CT	81%	GA	90%
NY	+11,028		AL	+276		KY	+31		FL	1,645,507		NY	34,579		NJ	59,879		SC	80%	CA	89%
FL	+8,211		PA	+222		AZ	+29		NY	1,361,082		FL	26,249		AZ	51,037		CA	80%	DE	87%
AZ	+5,918		AZ	+195		NM	+25		IL	1,112,181		NJ	21,220		GA	49,247		DC	80%	OK	86%
PA	+5,874		NY	+172		WA	+23		OH	878,284		PA	21,105		CH	45,530		MD	79%	TX	85%
NC	+5,587		FL	+169		VA	+21		PA	818,369		IL	20,949		AL	41,483		GA	79%	NC	85%
CH	+5,366		GA	+161		DC	+13		AZ	738,561		MI	15,314		IN	39,894		MA	78%	MO	83%
VA	+5,227		TN	+154		NH	+10		NC	733,010		MA	14,304		MD	31,468		FL	78%	DC	83%
NJ	+4,810		NC	+139		SD	+9		GA	731,826		GA	13,643		MN	24,073		MO	77%	RI	82%
<b>+88,362</b>			<b>+2,652</b>			<b>+273</b>			<b>13,481,466</b>			<b>240,755</b>			<b>504,821</b>						
All states	+151,675			+4,077			-1516		All states	25,230,559			419,634			795,299		All states	73%		76%
Top ten	58%			65%			-18%		Top ten	53%			57%			63%		Median	70%		72%

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TX	-6,661	MO	-110	NY	-161	LA	+24,296
GA	-1,616	MI	-77	NC	-144	TX	+22,079
FL	-1,255	FL	-62	TX	-122	PA	+12,824
AR	-708	H	-56	IL	-109	CH	+8,871
WA	-602	IN	-41	NM	-101	TN	+5,488

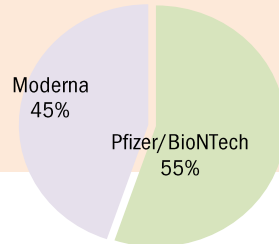


Source: [Covid Tracking Project](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US

US overall	Over last day
47.23 million doses distributed	+2.84 million/day
24.65 million doses administered	+1.11 million/day
20.69 million persons with one or more shot	+0.79 million/day
3.80 million persons with two or more shots	+0.32 million/day
2.90 million shots in long-term care	+0.18 million/day

**52.2% of distributed doses administered**  
**7.5% of US population vaccinated**  
**6.3% of US population one shot**  
**1.2% of US population two shots**  
**2.1 doses per long-term care resident**



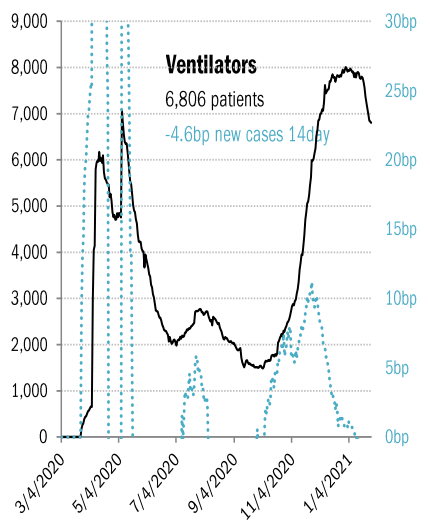
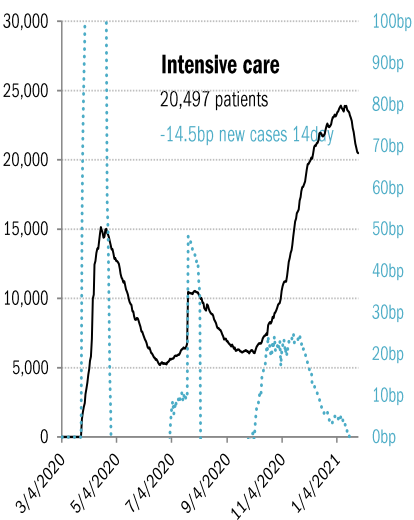
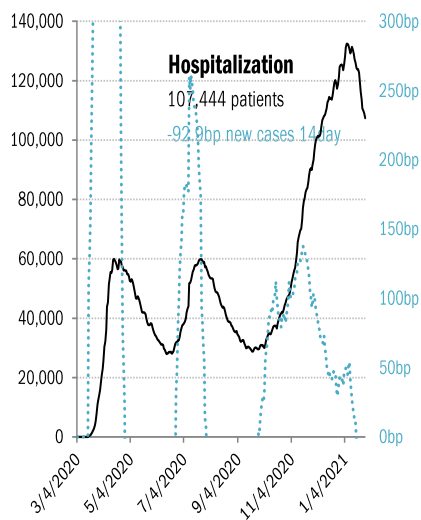
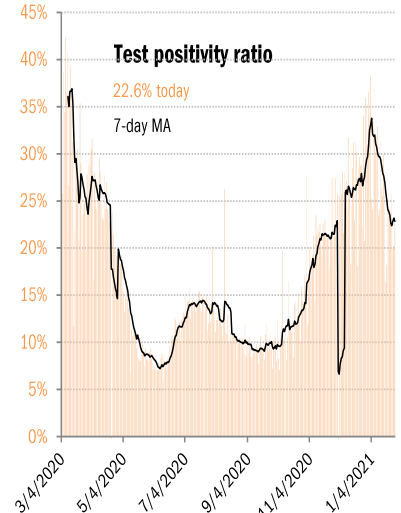
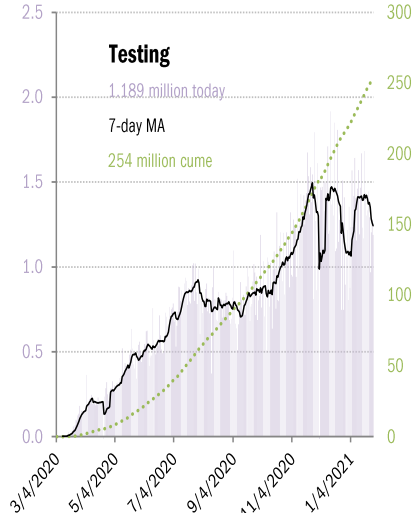
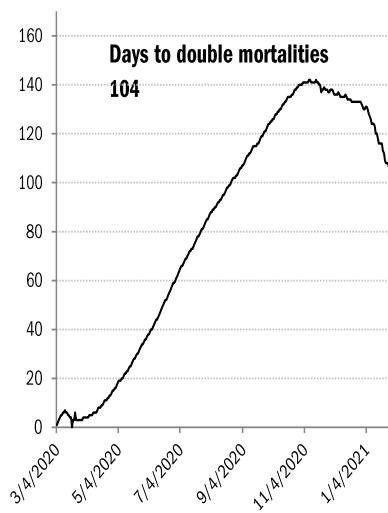
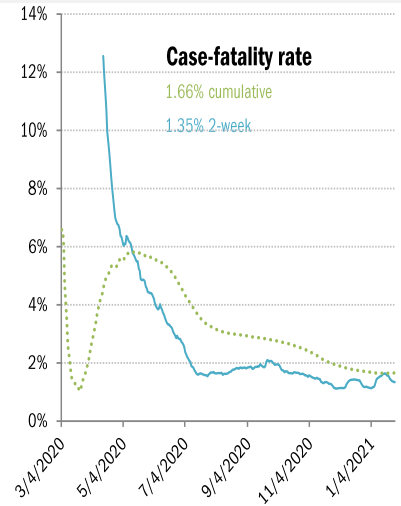
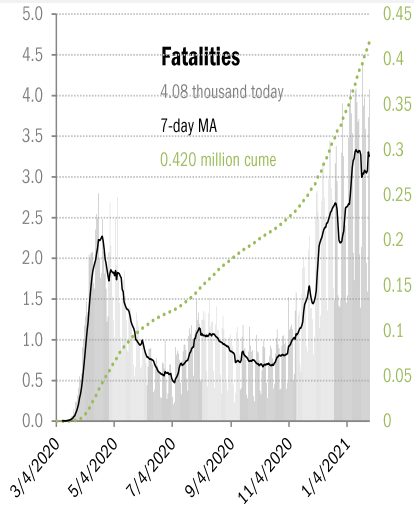
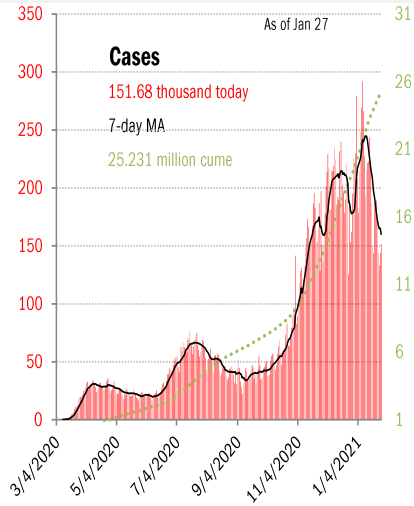
State	Doses distributed as % population	One shot received as % population	Two shots received as % distributed
<b>AK</b>	23.3%	11.4%	2.5%
<b>ME</b>	15.2%	6.4%	1.6%
<b>VT</b>	15.5%	7.1%	1.7%
<b>NH</b>	14.0%	6.2%	1.3%
<b>WI</b>	13.6%	4.8%	0.9%
<b>WA</b>	12.9%	5.8%	1.1%
<b>ID</b>	11.4%	4.5%	0.9%
<b>MT</b>	12.4%	6.2%	1.4%
<b>ND</b>	12.7%	7.7%	2.2%
<b>MN</b>	14.0%	5.3%	1.3%
<b>IL</b>	12.6%	4.8%	1.2%
<b>MI</b>	13.5%	6.3%	1.3%
<b>NY</b>	14.1%	6.6%	1.1%
<b>MA</b>	13.9%	5.7%	1.1%
<b>OR</b>	14.2%	6.5%	1.1%
<b>NV</b>	11.0%	4.9%	0.8%
<b>WY</b>	14.3%	6.6%	0.9%
<b>SD</b>	13.9%	7.4%	2.5%
<b>IA</b>	11.5%	5.2%	1.1%
<b>IN</b>	13.7%	6.4%	1.4%
<b>OH</b>	12.9%	5.6%	0.8%
<b>PA</b>	14.2%	5.4%	1.2%
<b>NJ</b>	13.6%	6.0%	0.9%
<b>CT</b>	15.3%	8.5%	1.5%
<b>RI</b>	14.3%	5.7%	1.5%
<b>CA</b>	13.8%	5.5%	1.1%
<b>UT</b>	12.3%	6.3%	0.9%
<b>CO</b>	13.5%	6.6%	1.6%
<b>NE</b>	14.7%	5.9%	1.3%
<b>MO</b>	12.2%	4.5%	1.3%
<b>KY</b>	13.1%	6.4%	0.8%
<b>WV</b>	15.5%	9.5%	2.5%
<b>VA</b>	13.8%	6.1%	0.9%
<b>MD</b>	13.6%	5.6%	0.8%
<b>DE</b>	14.5%	6.7%	1.3%
<b>AZ</b>	13.6%	5.3%	0.9%
<b>NM</b>	14.5%	8.4%	1.8%
<b>KS</b>	13.5%	4.8%	0.9%
<b>AR</b>	13.5%	6.9%	1.4%
<b>TN</b>	13.0%	5.5%	1.6%
<b>NC</b>	13.3%	6.0%	0.8%
<b>SC</b>	10.6%	5.3%	1.0%
<b>DC</b>	15.2%	7.6%	2.0%
<b>OK</b>	14.4%	7.5%	1.2%
<b>LA</b>	13.3%	6.7%	1.0%
<b>MS</b>	13.3%	5.8%	0.6%
<b>AL</b>	12.9%	4.7%	0.7%
<b>GA</b>	13.3%	5.9%	0.7%
<b>HI</b>	15.4%	5.6%	1.3%
<b>TX</b>	12.1%	5.7%	1.1%
<b>FL</b>	14.4%	6.8%	0.8%
<b>PR</b>	15.9%	4.9%	1.3%

As of Jan 27

Source: [CDC](#), TrendMacro calculations

# US deep-dive

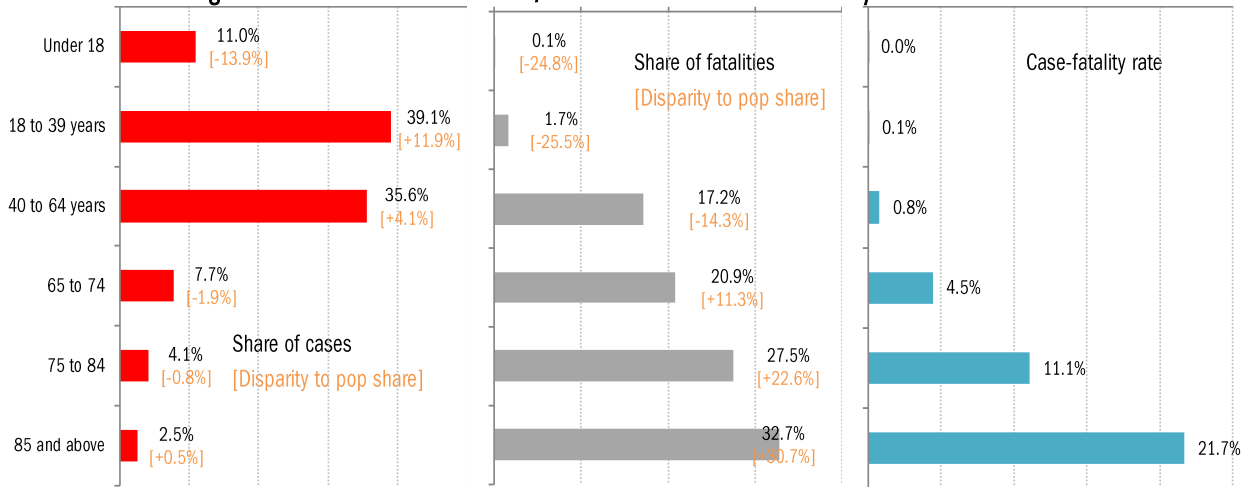
National and state-by-state data do not line up because of different sources



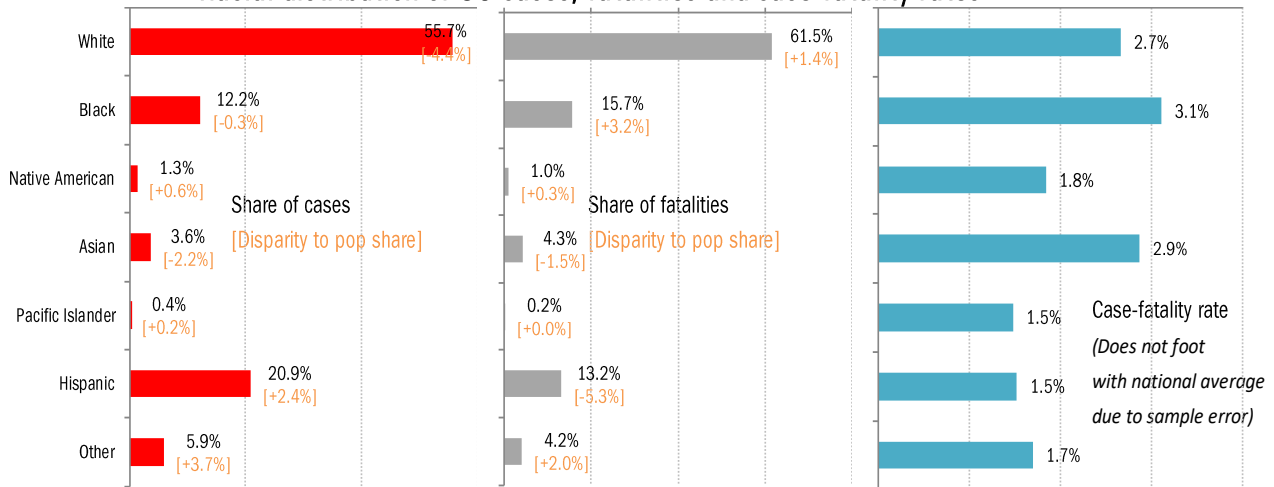
Source: [Covid Tracking Project](#), TrendMacro calculations

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

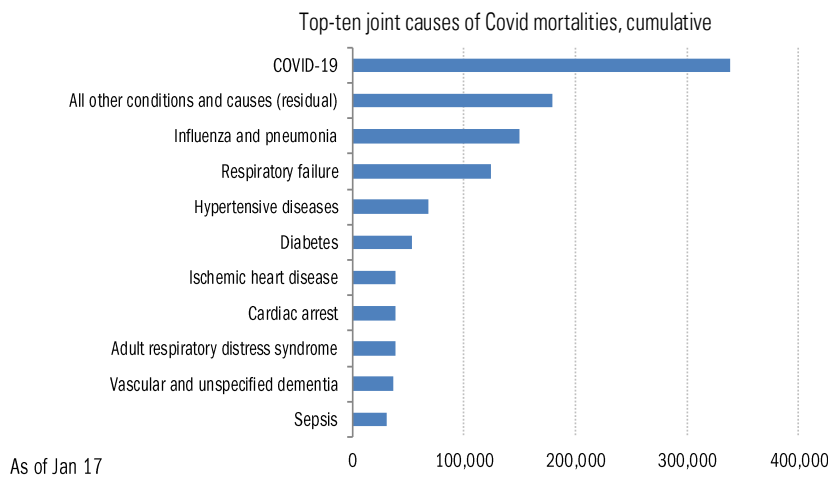
## Age distribution of US cases, fatalities and case-fatality rates



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



## Comorbidities



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 2.9 additional conditions or causes per death.

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

## Recommended reading

[At the urging of nursing homes, a law is amended and COVID court claims are slowed](#)

Tom Hals  
*Reuters*  
January 28, 2021

['Call the pros': Chick-fil-A helps direct gridlocked traffic at S.C. drive-thru COVID-19 vaccine site](#)

Chris Williams  
*Fox News*  
January 26, 2021

[U.S. 'actively looking' at mandating COVID-19 testing for domestic air travel](#)

David Shepardson  
*Reuters*  
January 26, 2021

[Israel: Woman Dies In Ambulance As All J-m Hospitals Refuse Treatment](#)

*The Yeshiva World*  
January 26, 2021

[Diverting some of Britain's vaccines to the global rollout is a scientific, economic and moral imperative](#)

Sit Mark Lowcock and Sir Jeremy Farrar  
*The Telegraph*  
January 26, 2021

[District Judge in Weimar: Corona-VO unconstitutional](#)

*2020 News*  
January 20, 2021

## Meme of day

People:

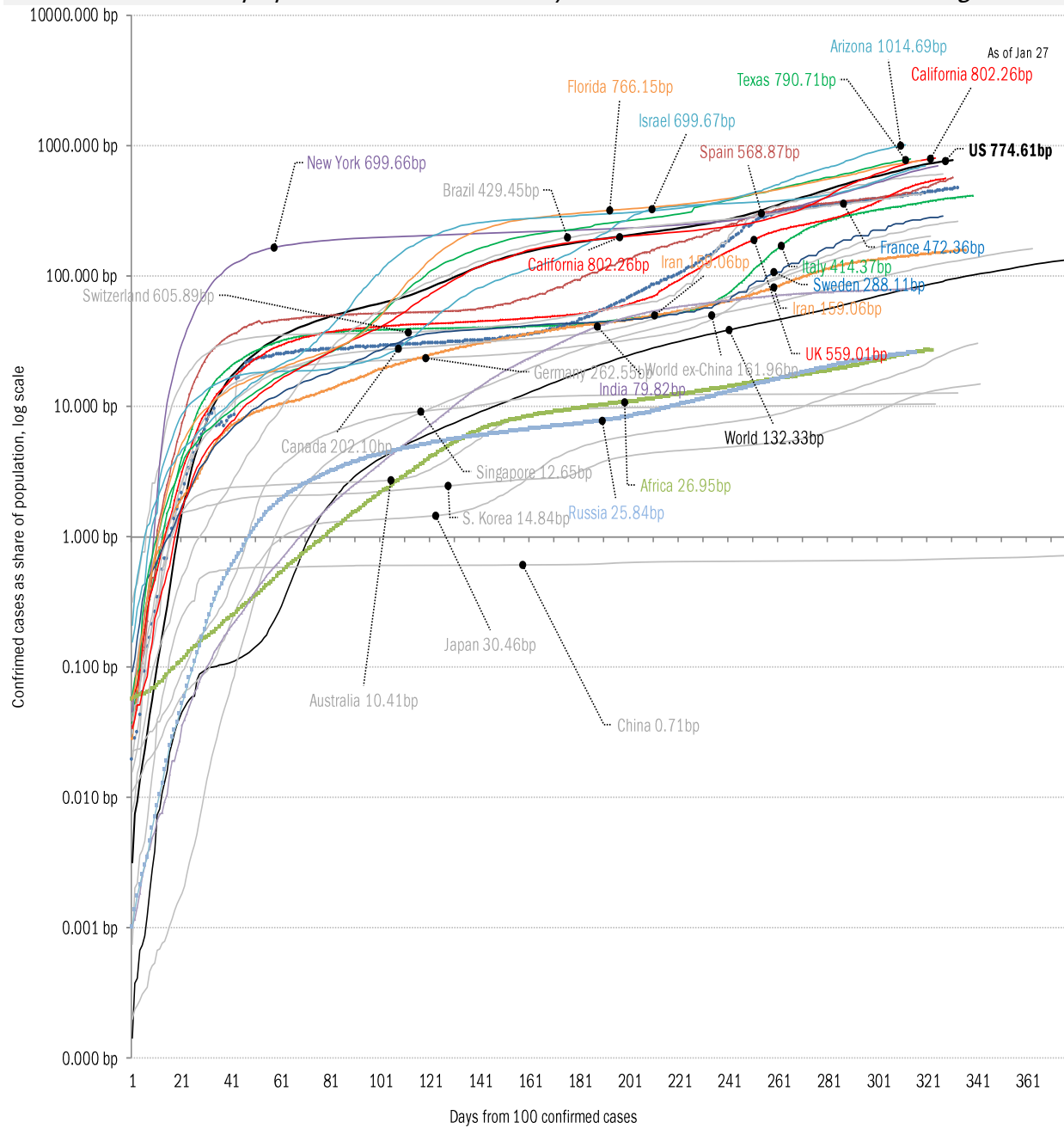


Also People:



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*

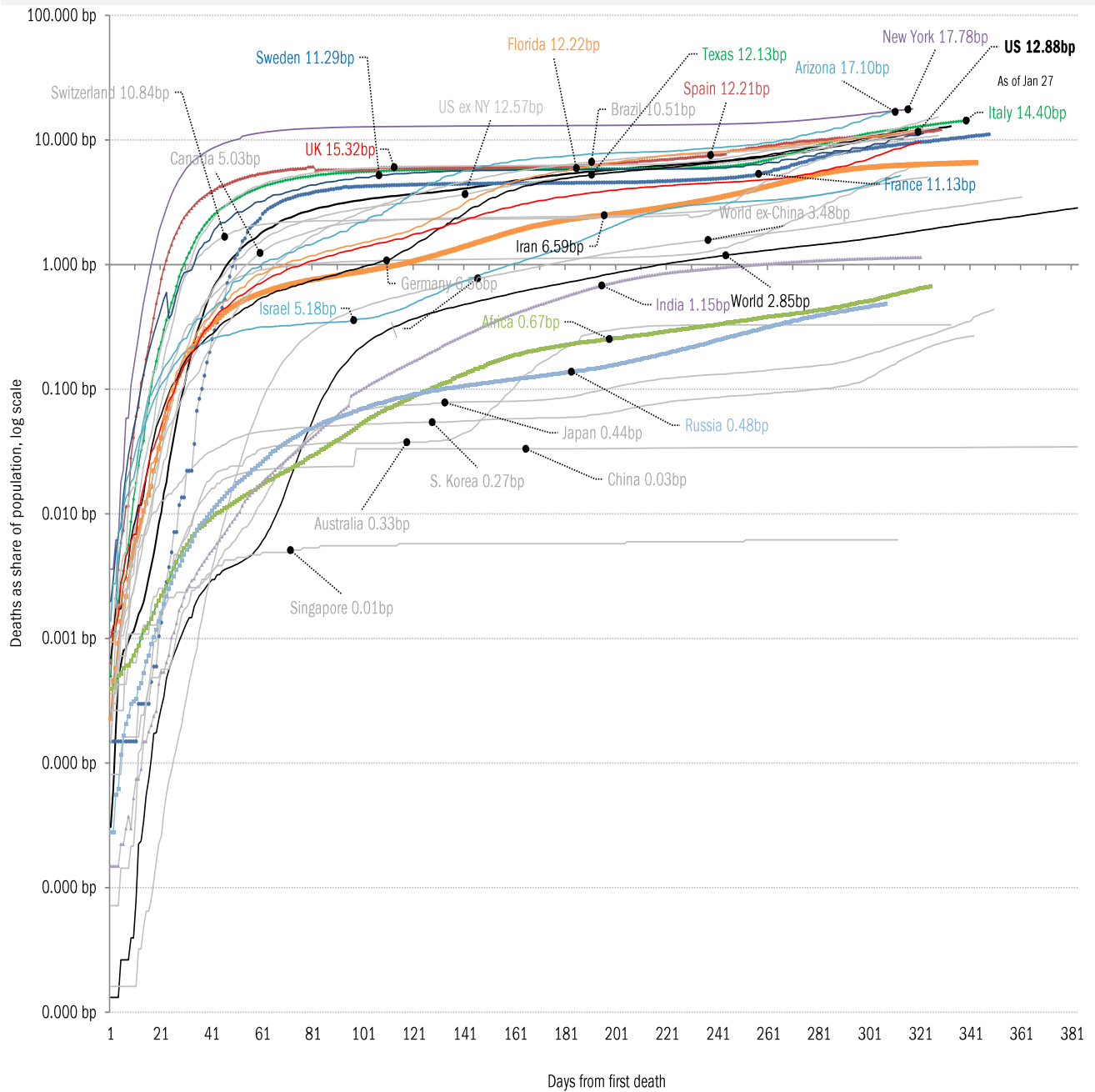


Source: [Johns Hopkins, Covid Tracking Project](#), TrendMacro calculations



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

## Share of deceased population from day of first fatality



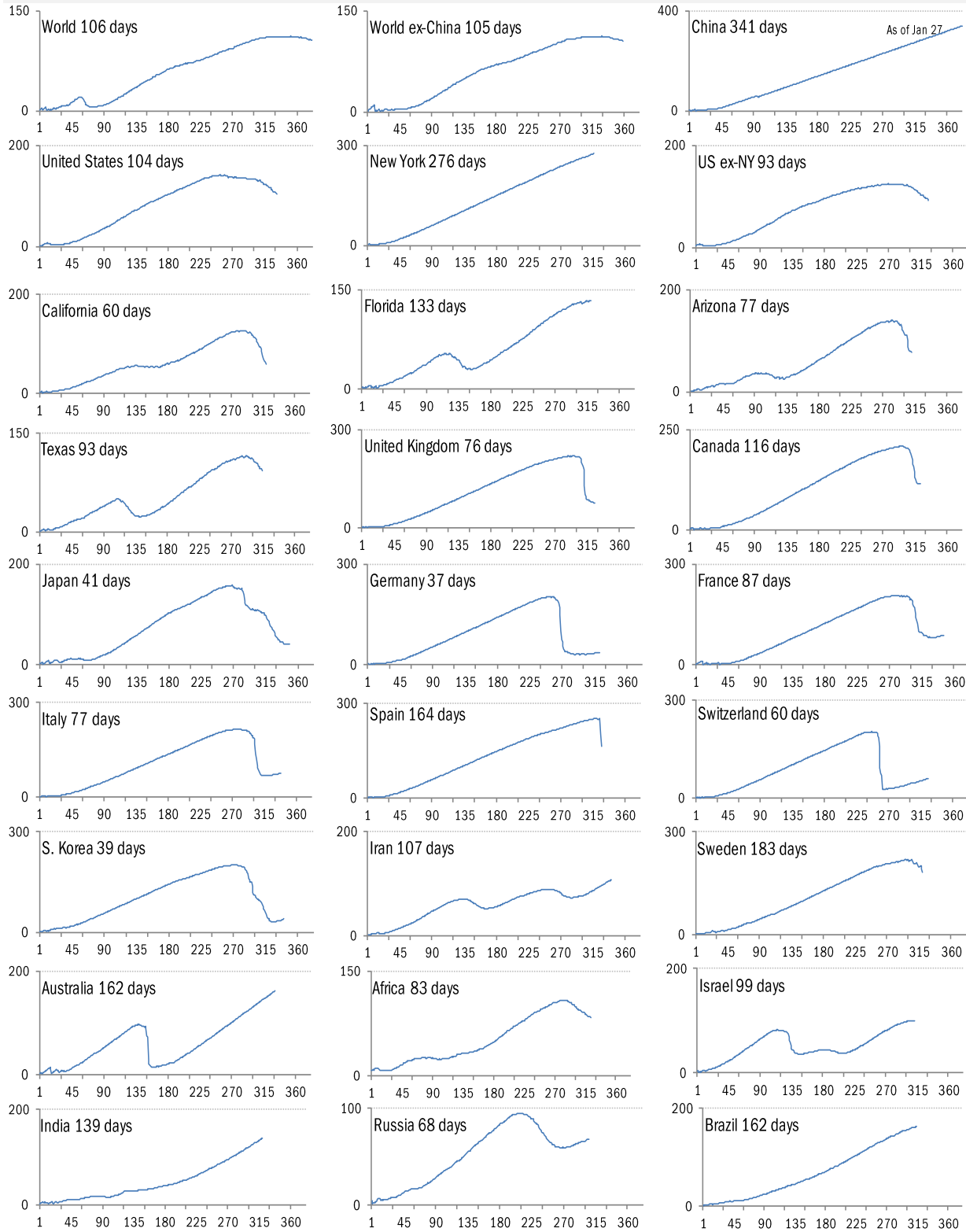
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations



# "Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

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

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

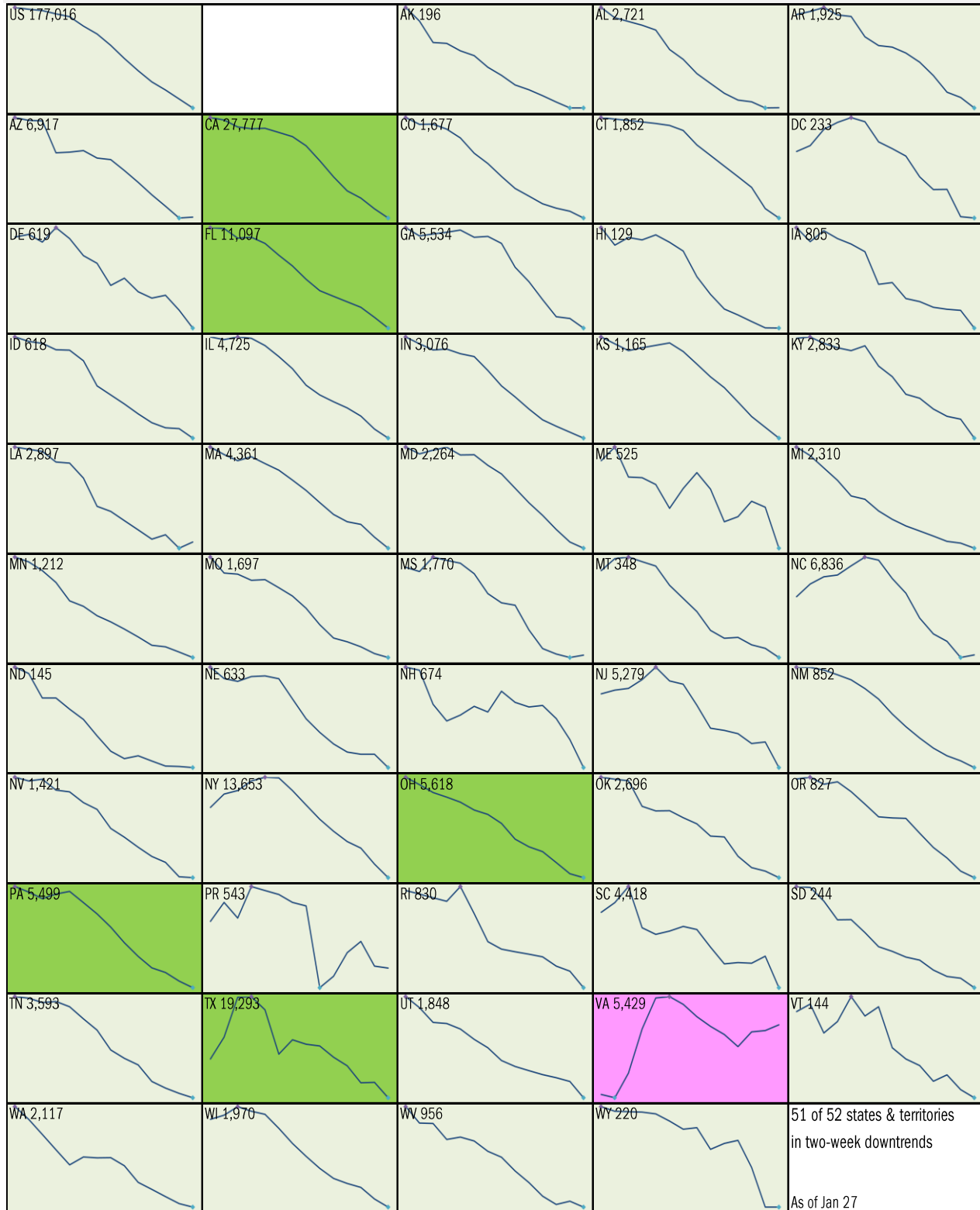


Source: [Johns Hopkins, Covid Tracking Project](#), TrendMacro calculations

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

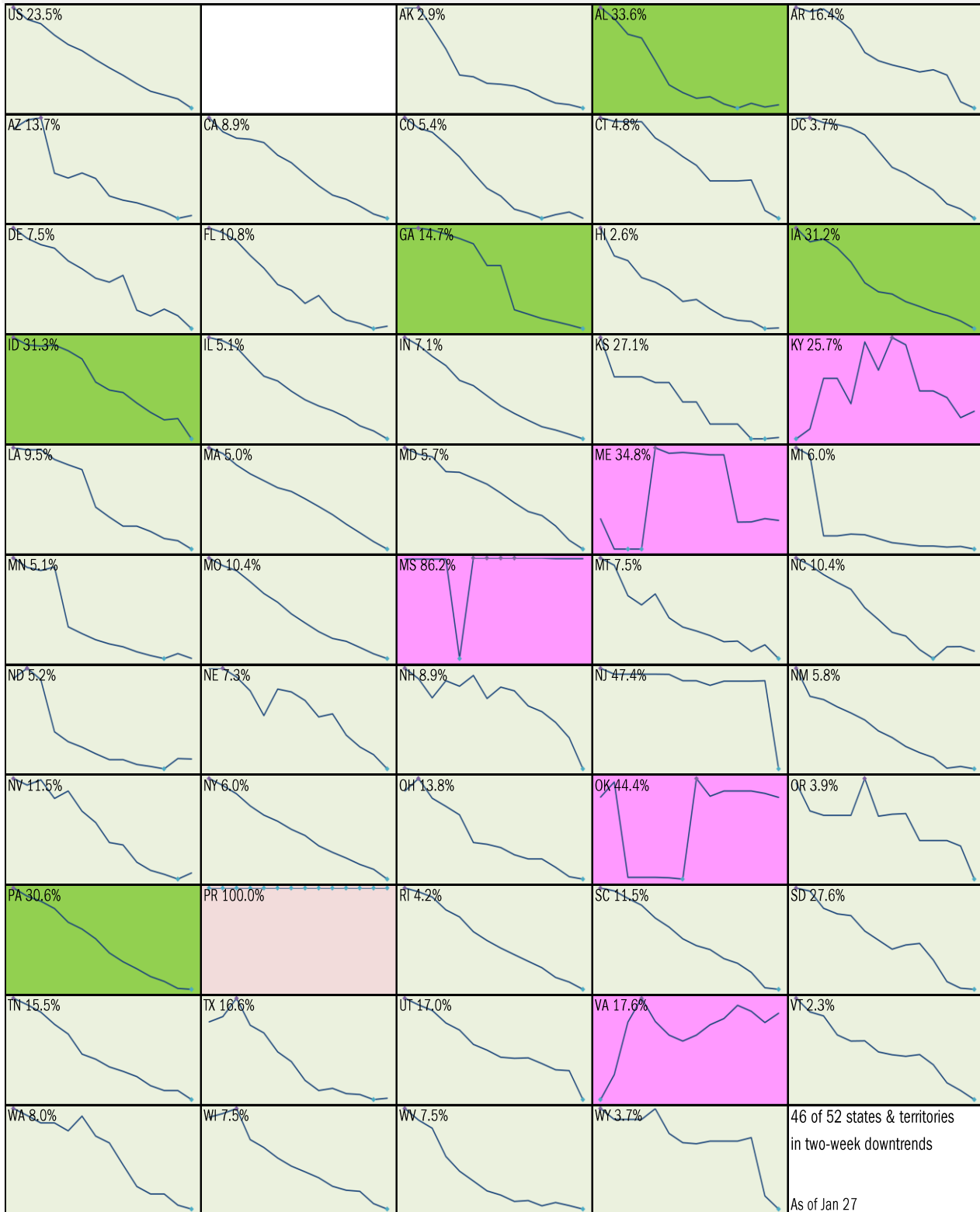
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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



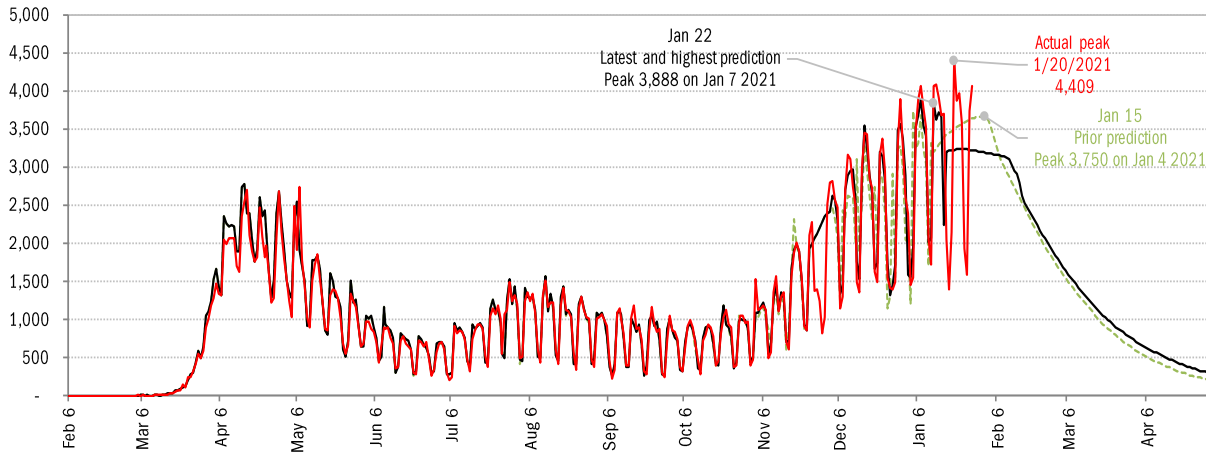
Source: [Covid Tracking Project](#), TrendMacro calculations

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

## New daily fatalities

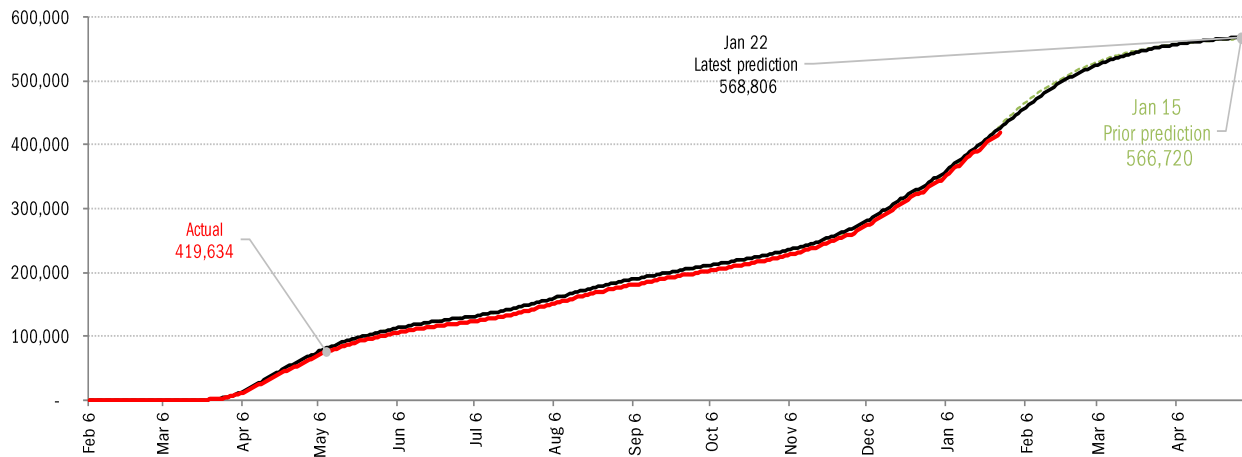
As of Jan 27

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

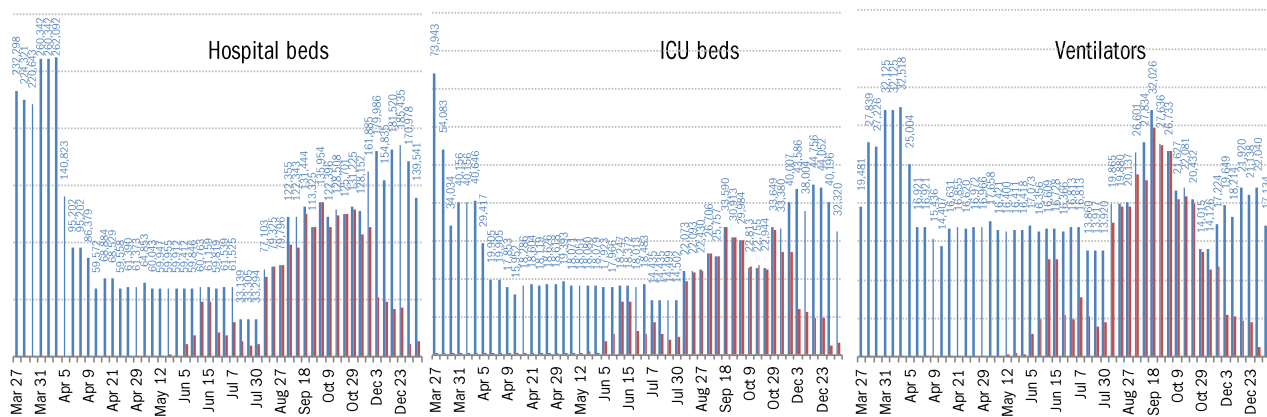


## Cumulative fatalities

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

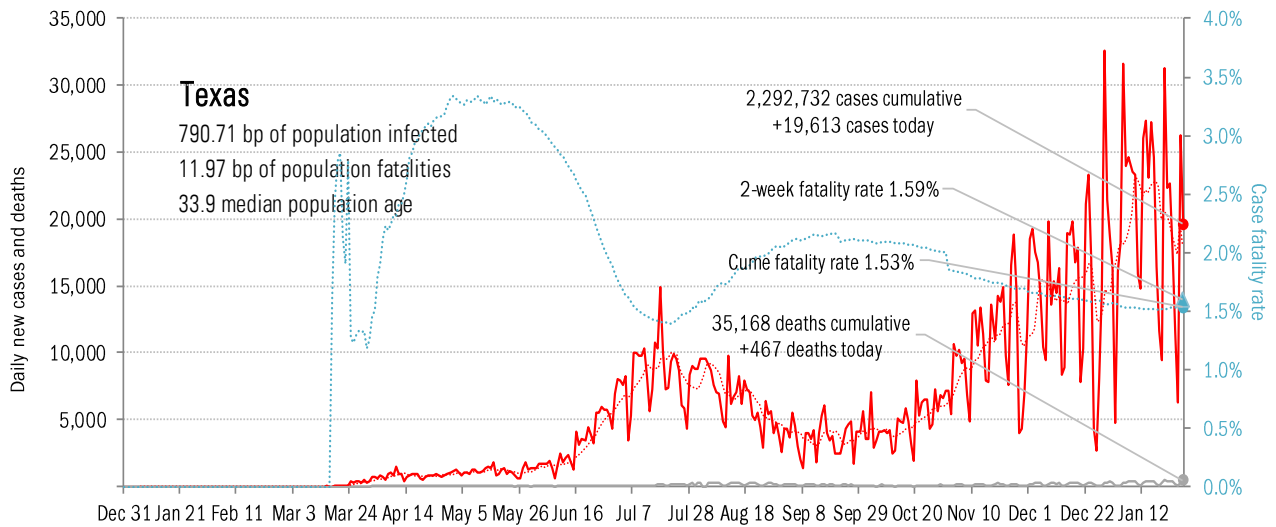
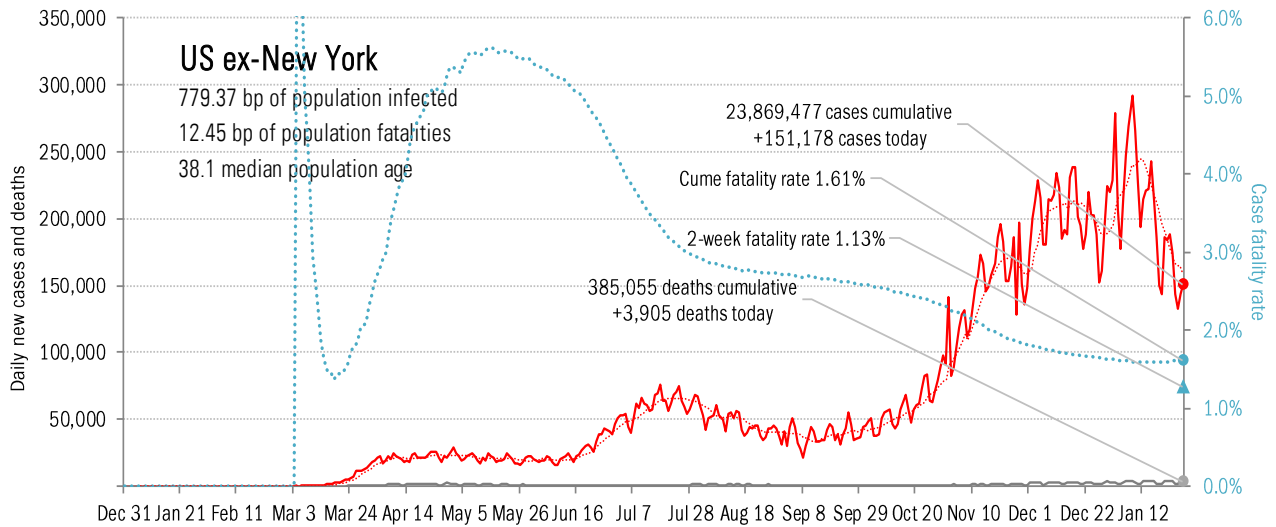
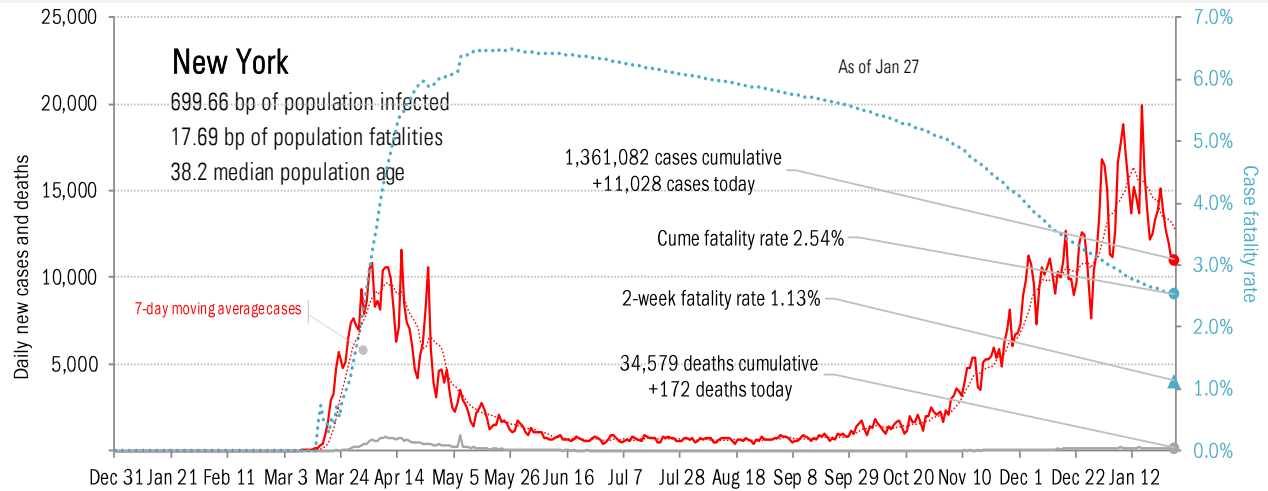


## Healthcare system stress, **peak** and **ultimate** estimated at each model revision



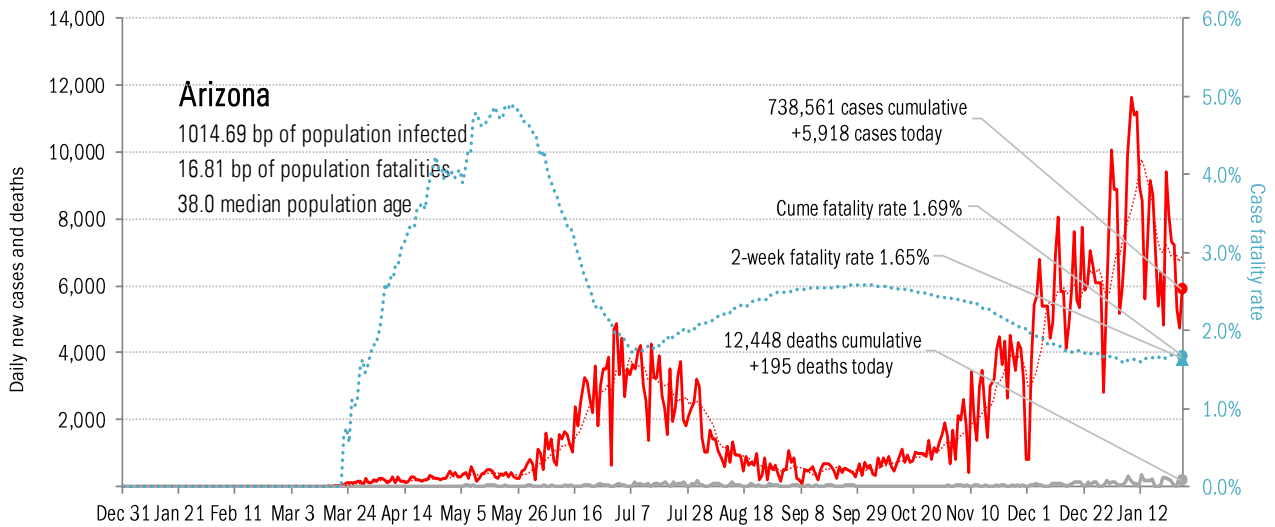
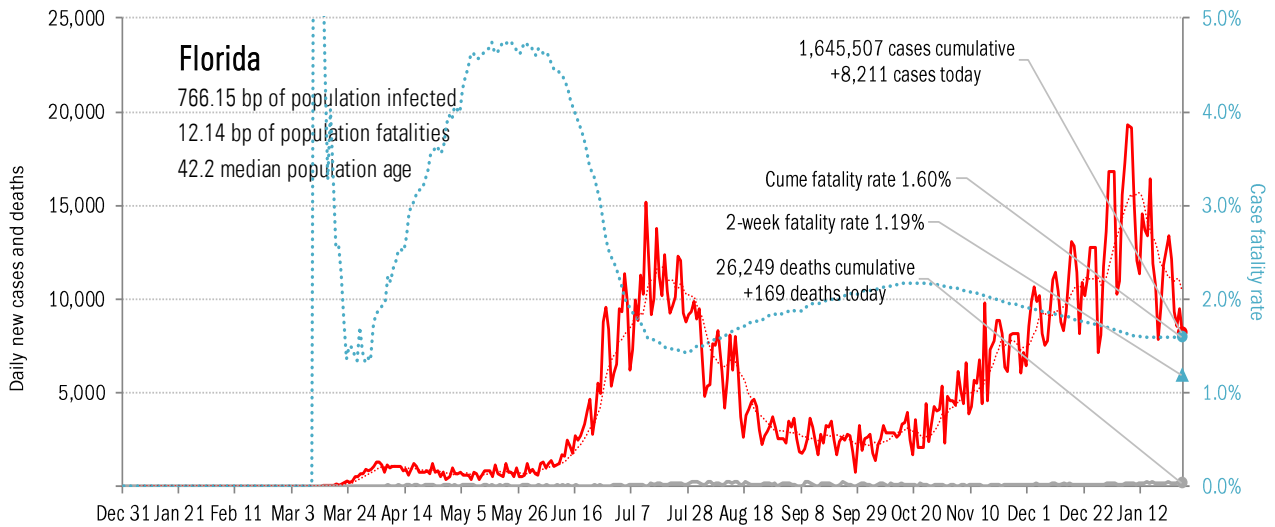
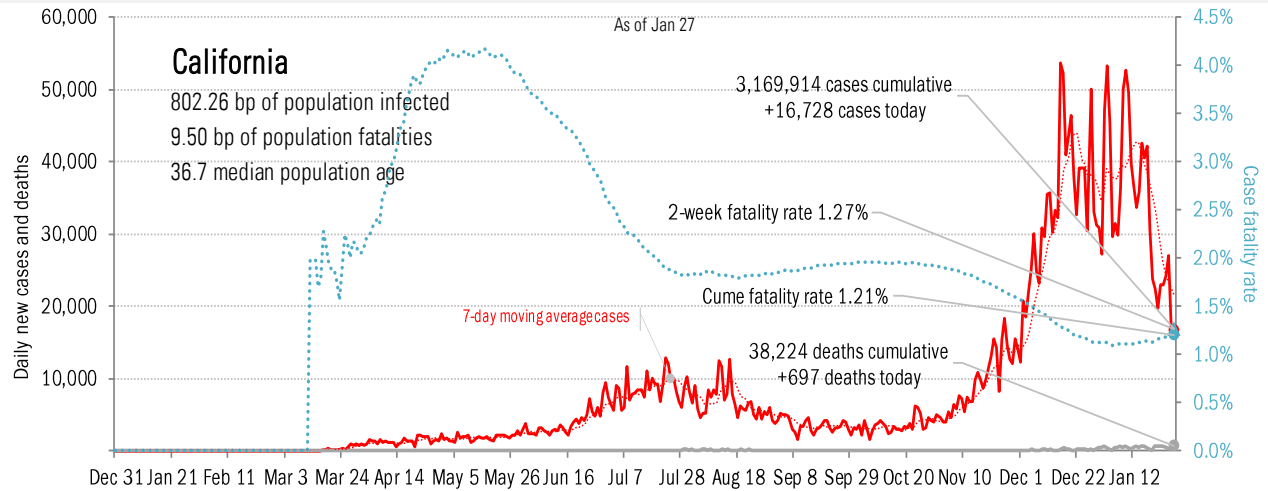
Source: [IHME Covid Tracking Project](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



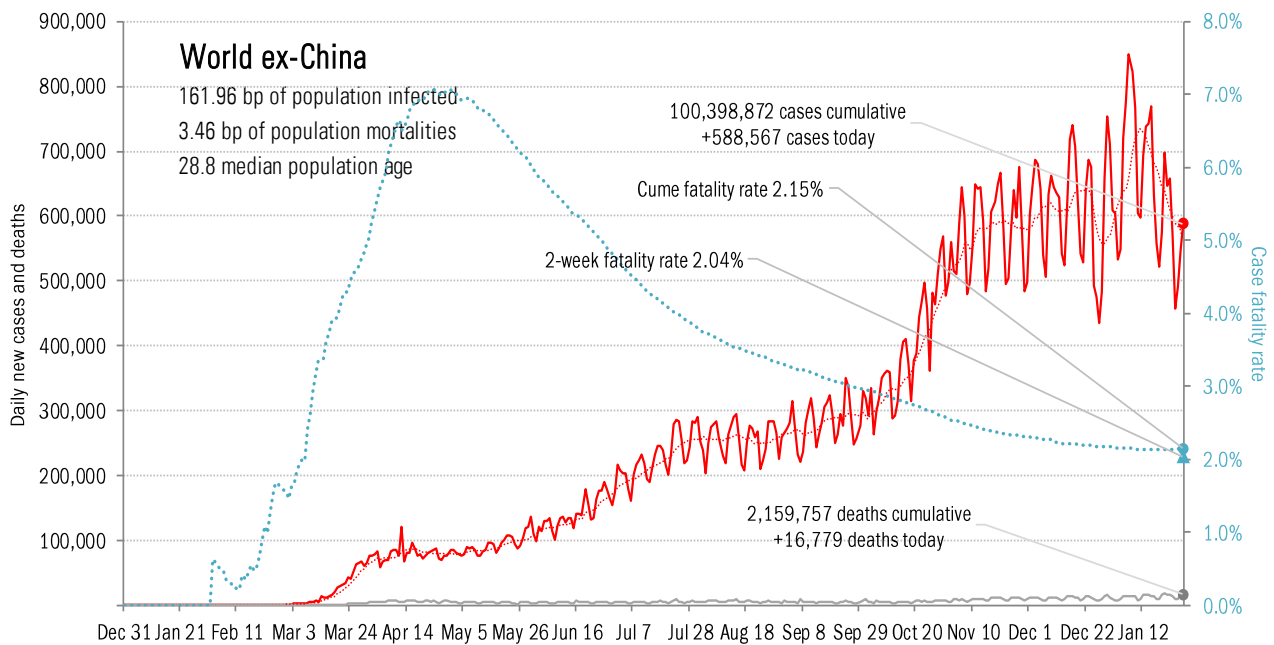
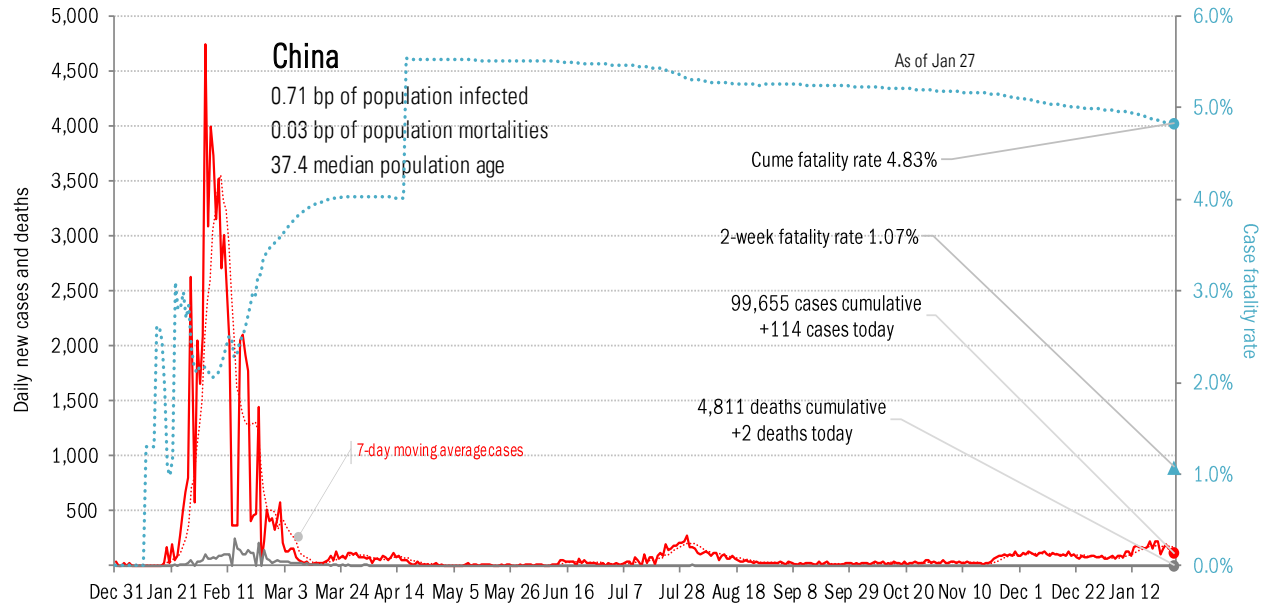
Source: [Covid Tracking Project](#), TrendMacro calculations

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



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

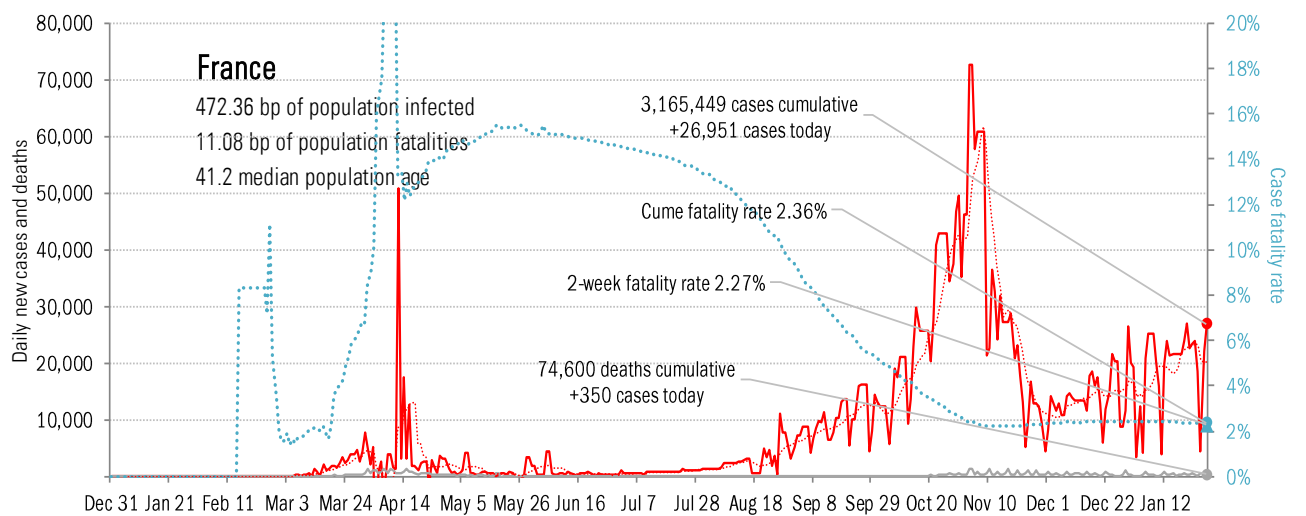
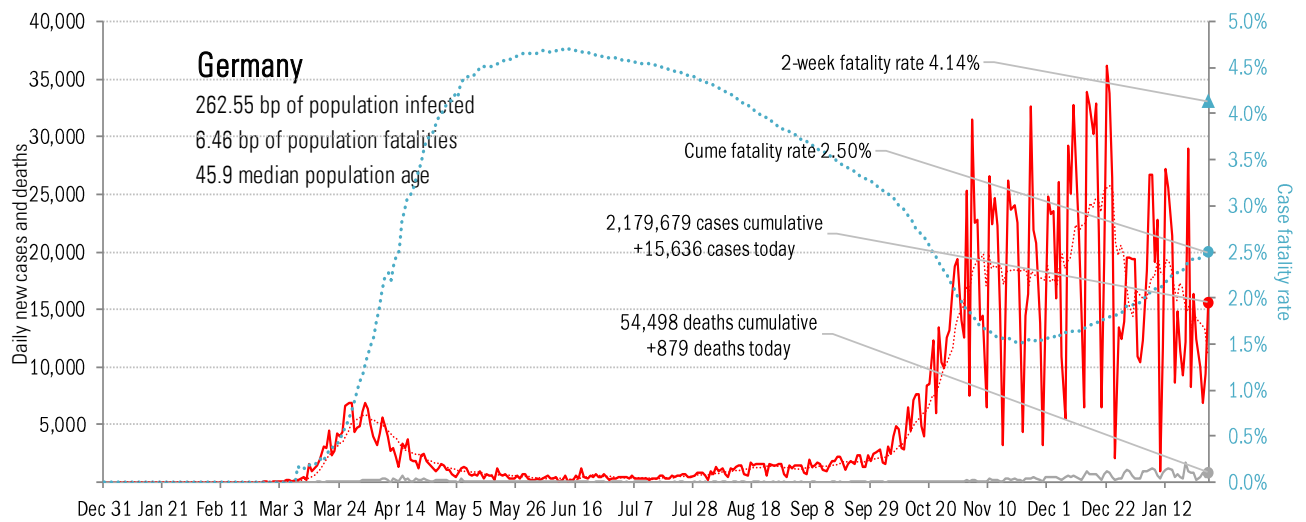
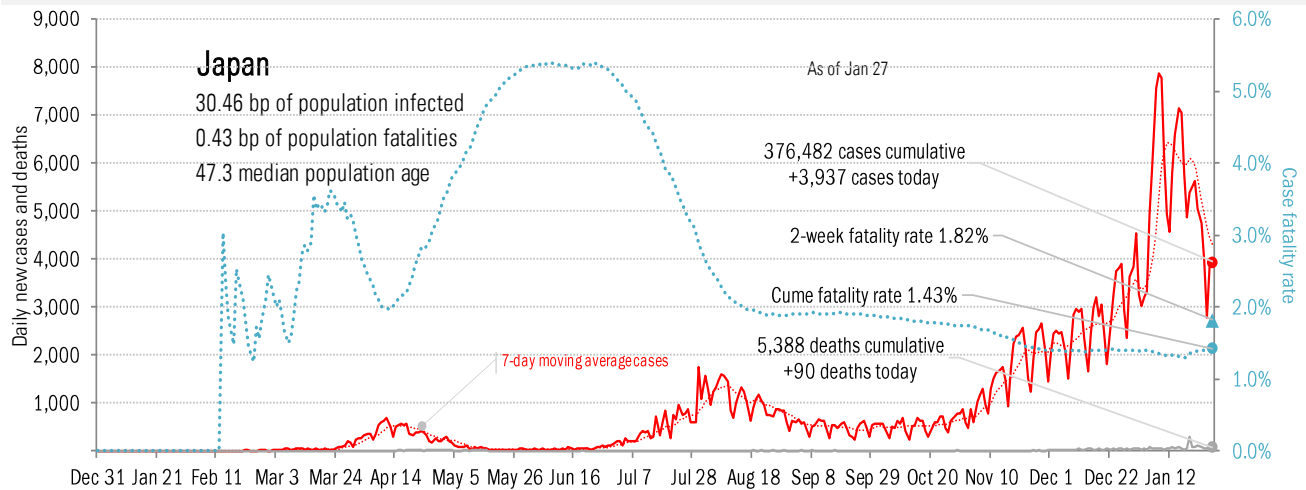
# Patient zero... and then everyone else



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

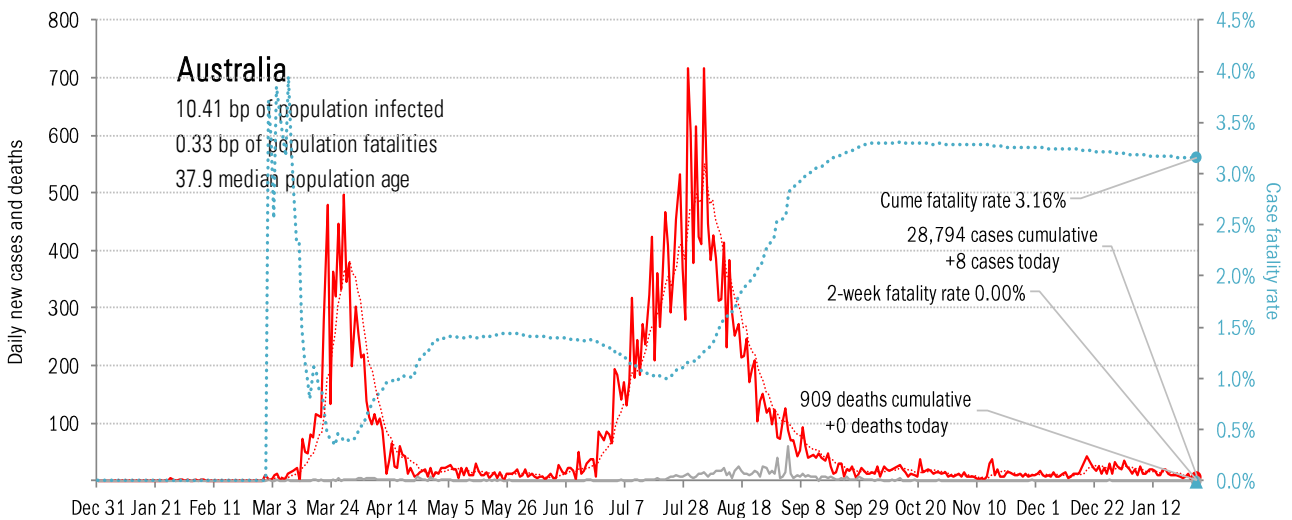
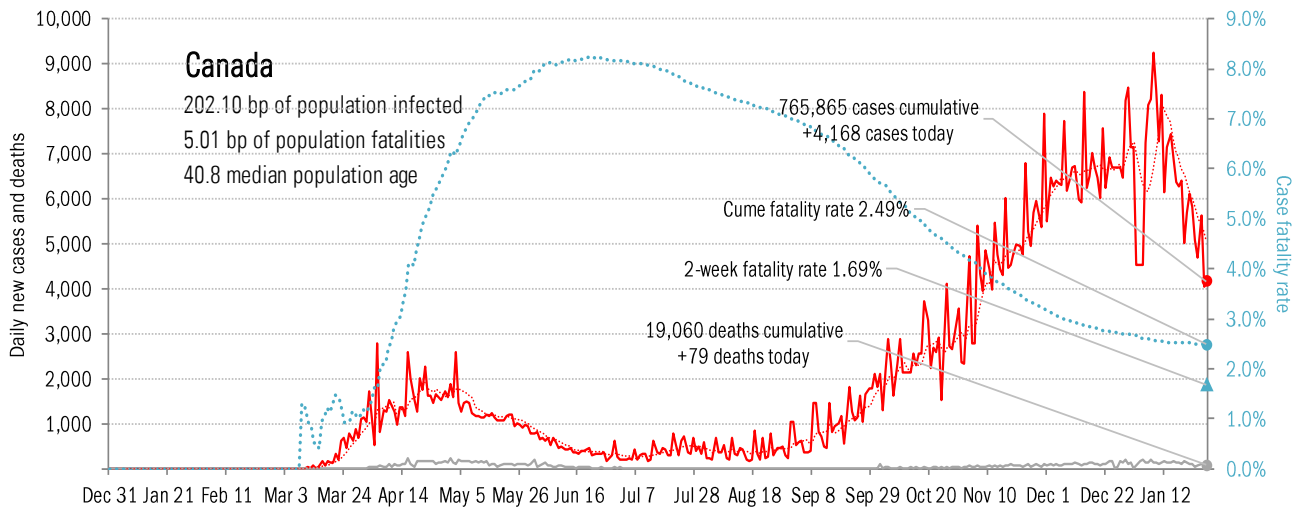
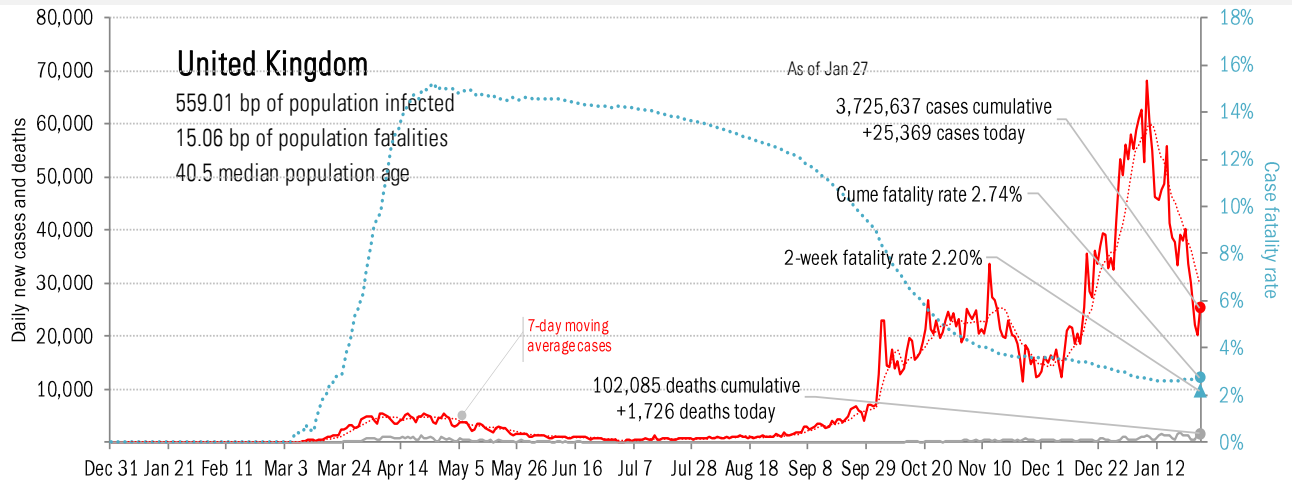


# Impact in the largest economies



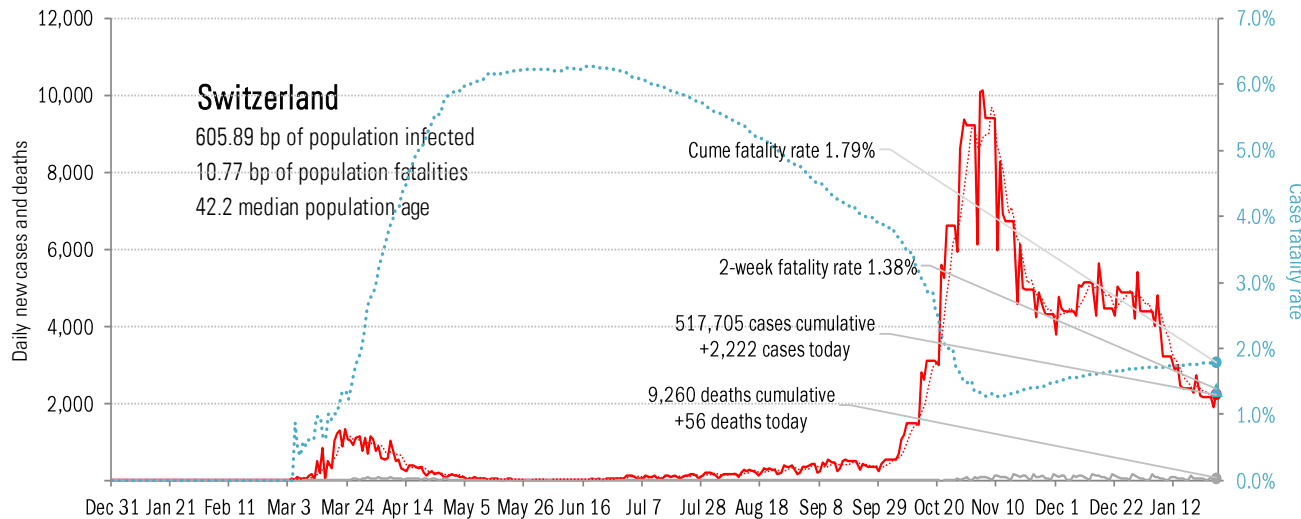
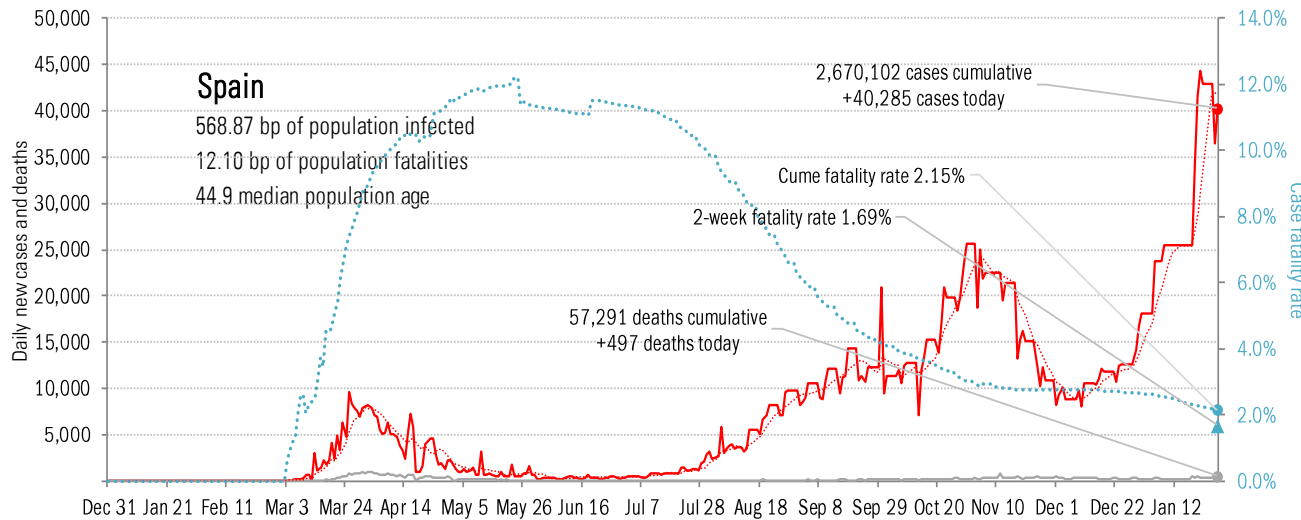
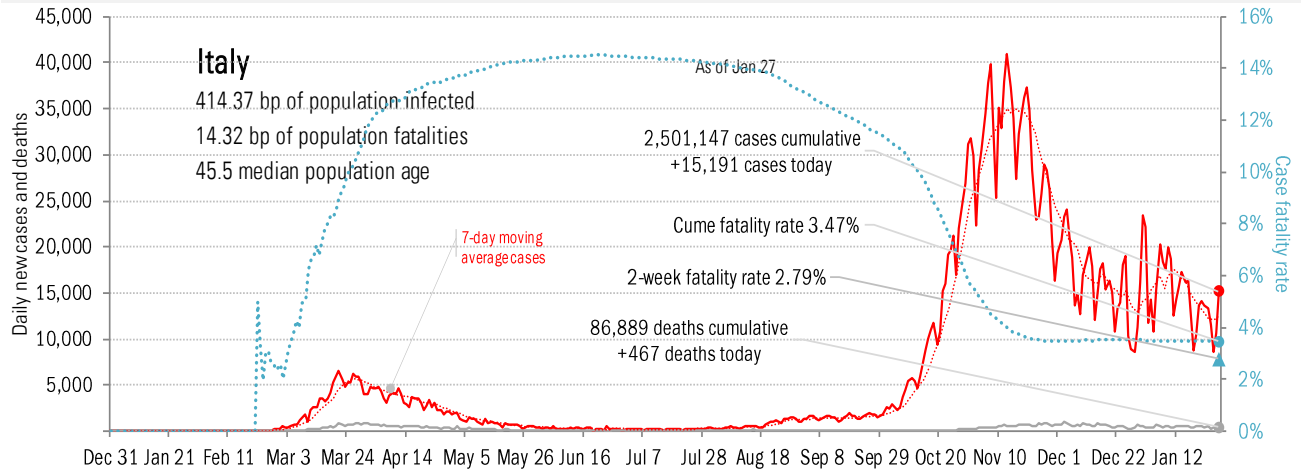
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in The Anglosphere



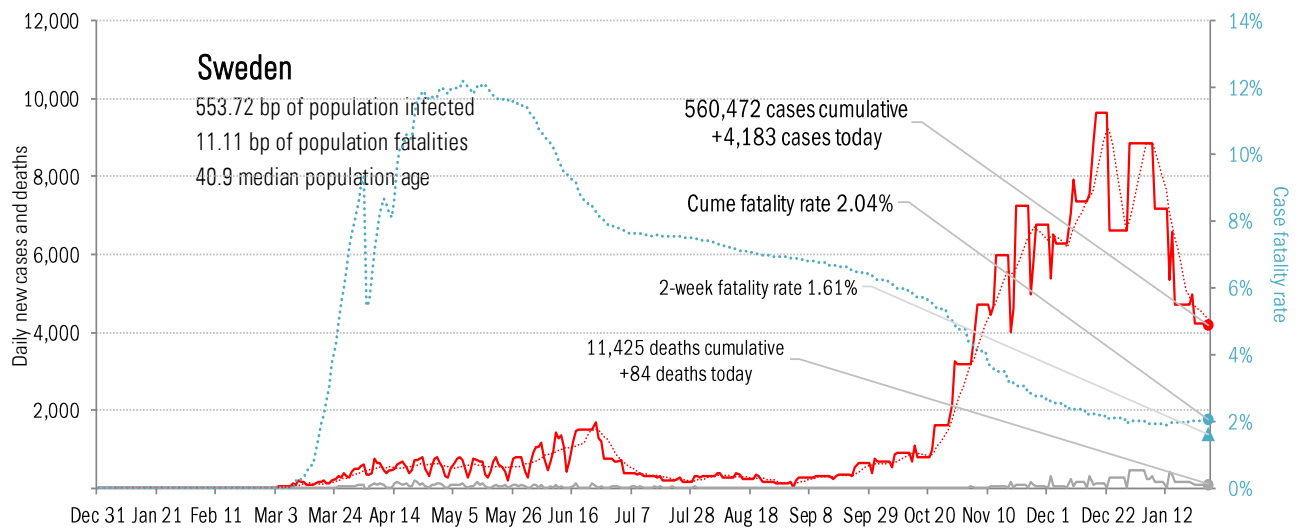
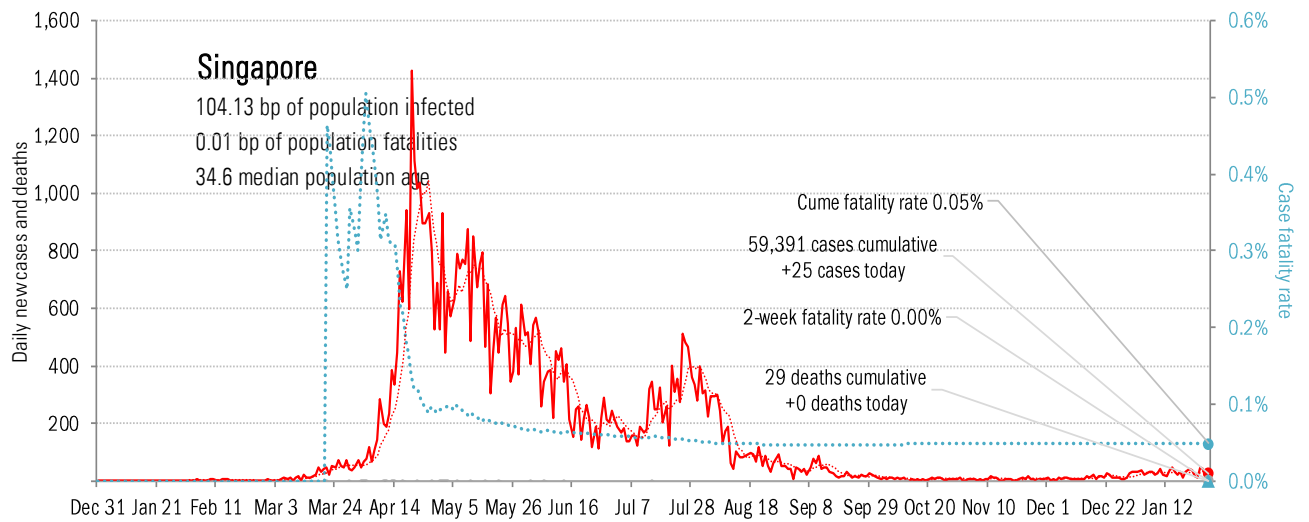
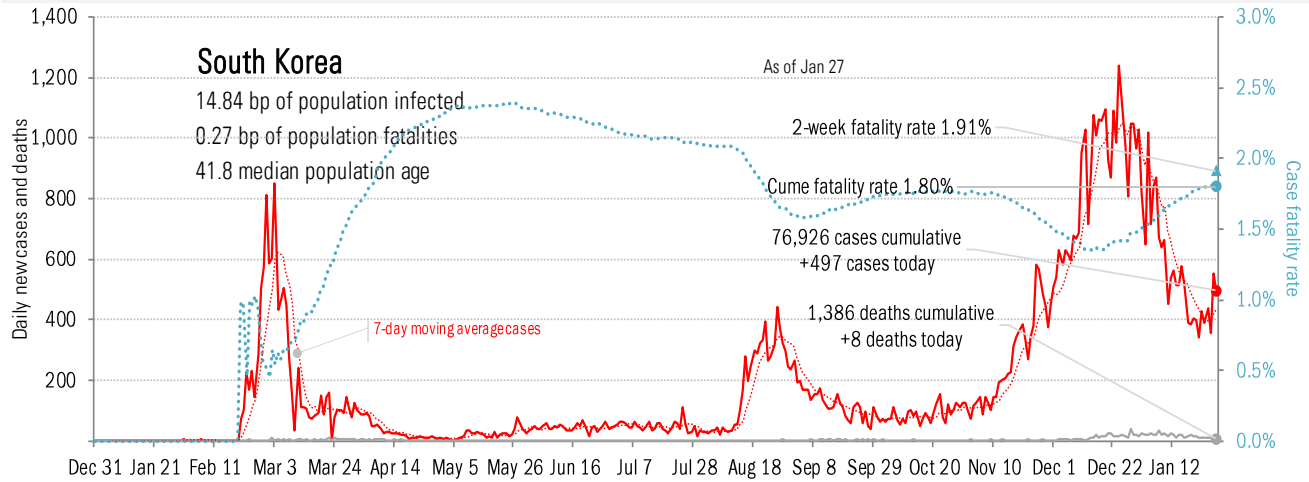
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in continental Europe



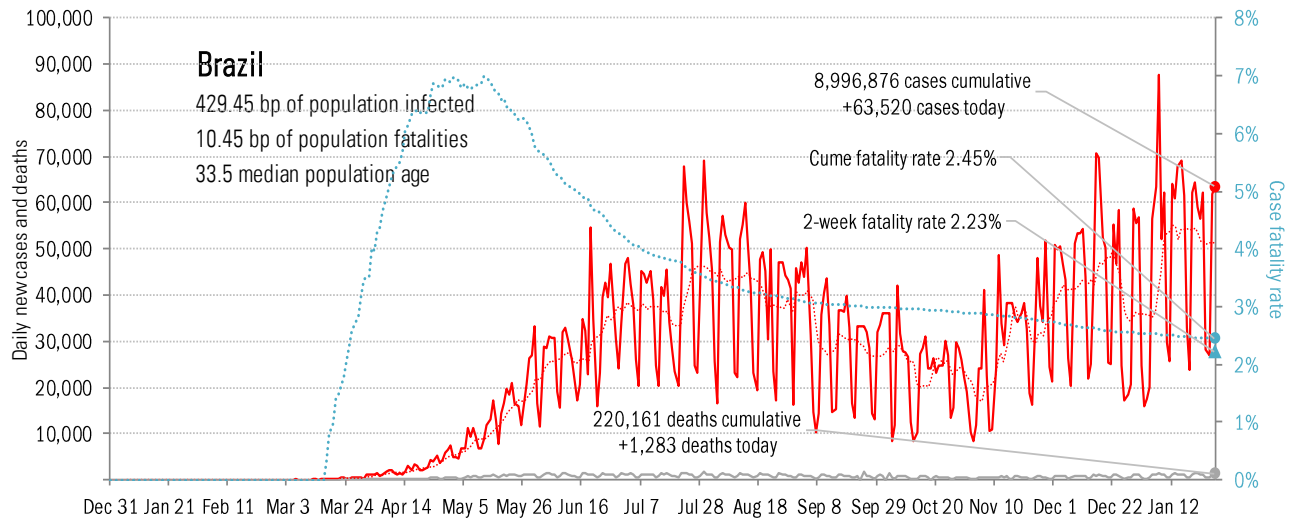
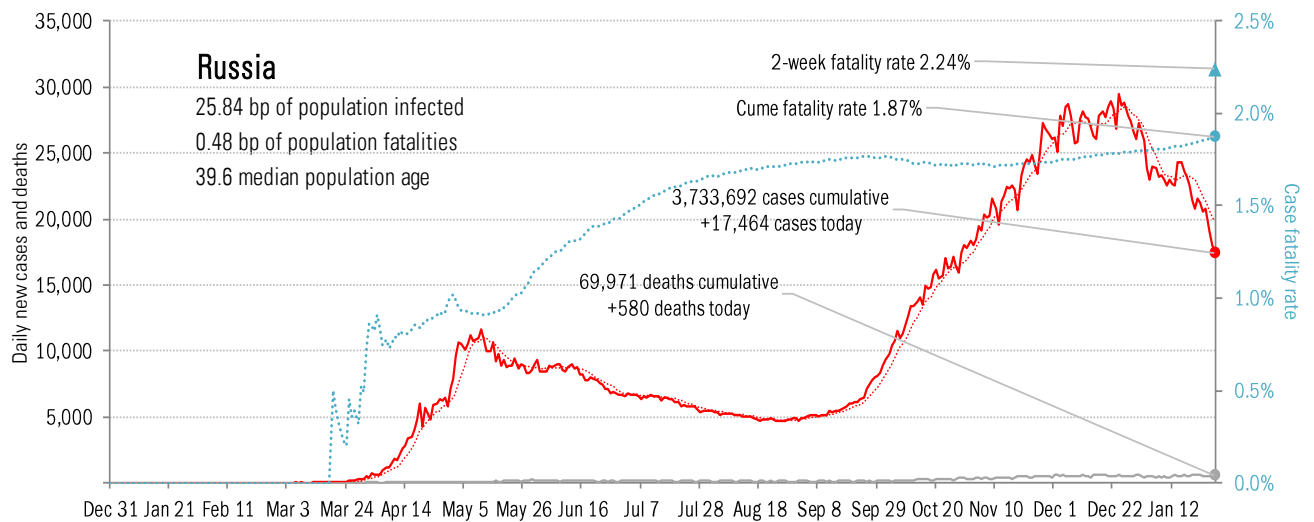
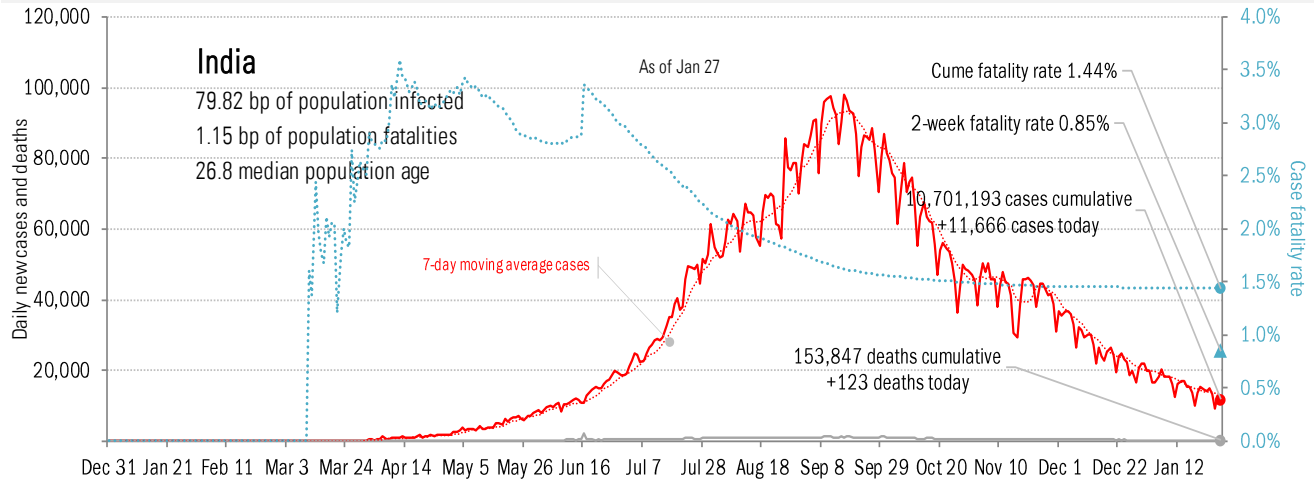
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



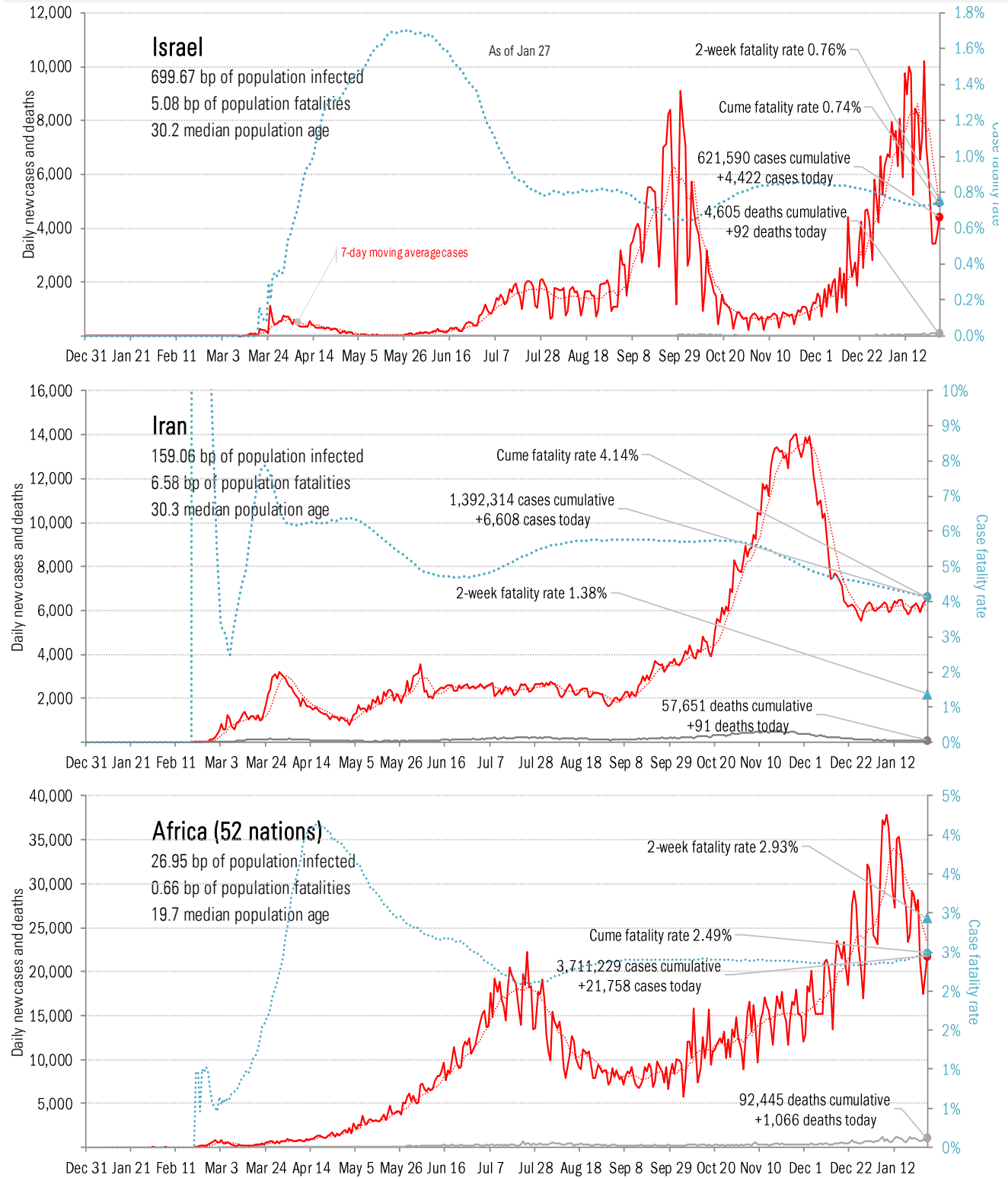
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



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

# Impact in the Middle East and Africa



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