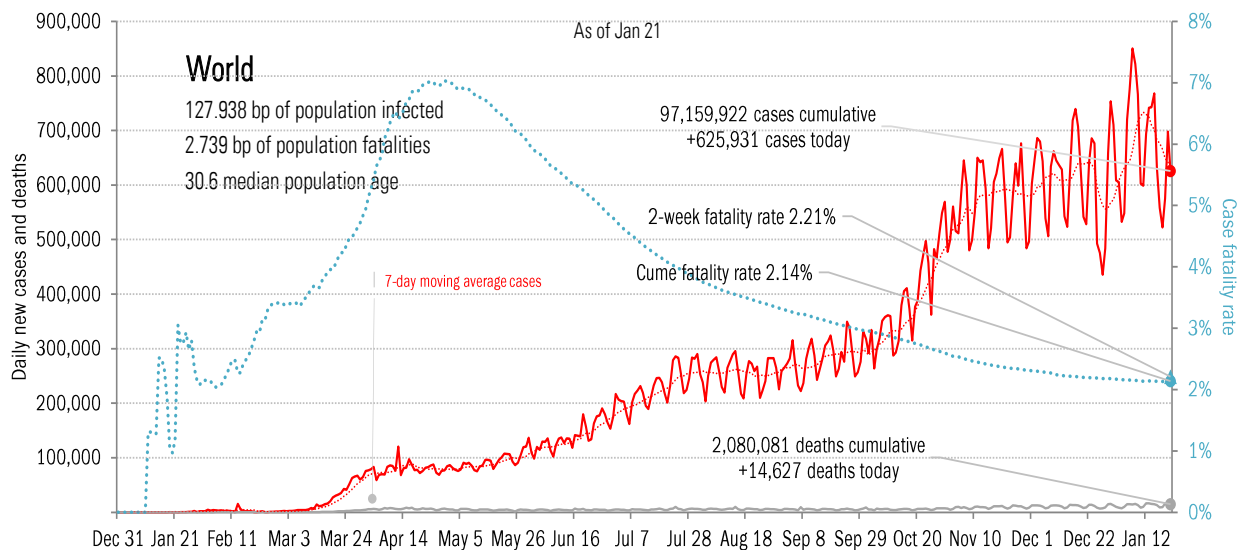
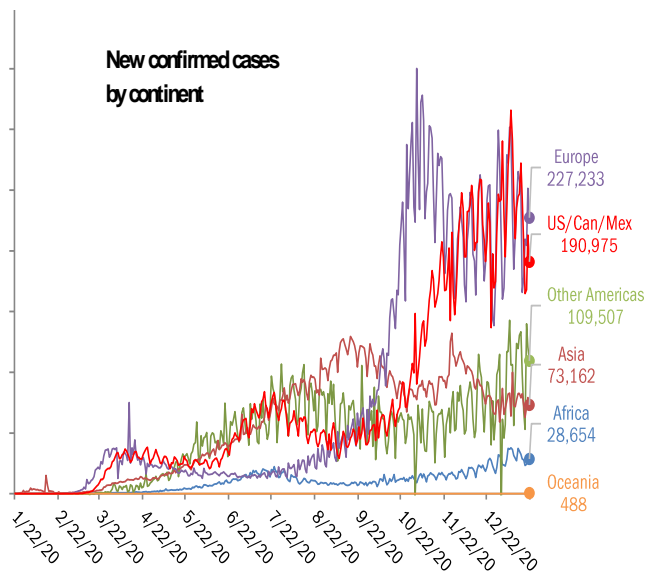


Data Insights: Covid-2019 Monitor

Friday, January 22, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+184,864	United States	+3,889
Brazil	+59,119	Brazil	+1,316
Spain	+44,357	United Kingdom	+1,296
United Kingdom	+37,977	Germany	+866
France	+22,710	South Africa	+647
Russia	+21,544	Russia	+596
Colombia	+15,366	Italy	+521
India	+14,545	Poland	+420
Italy	+14,055	Spain	+404
Portugal	+13,544	Colombia	+395
+428,081		+10,350	
World	+625,931	World	+14,627
Top ten	68%	Top ten	71%



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

The US scorecard

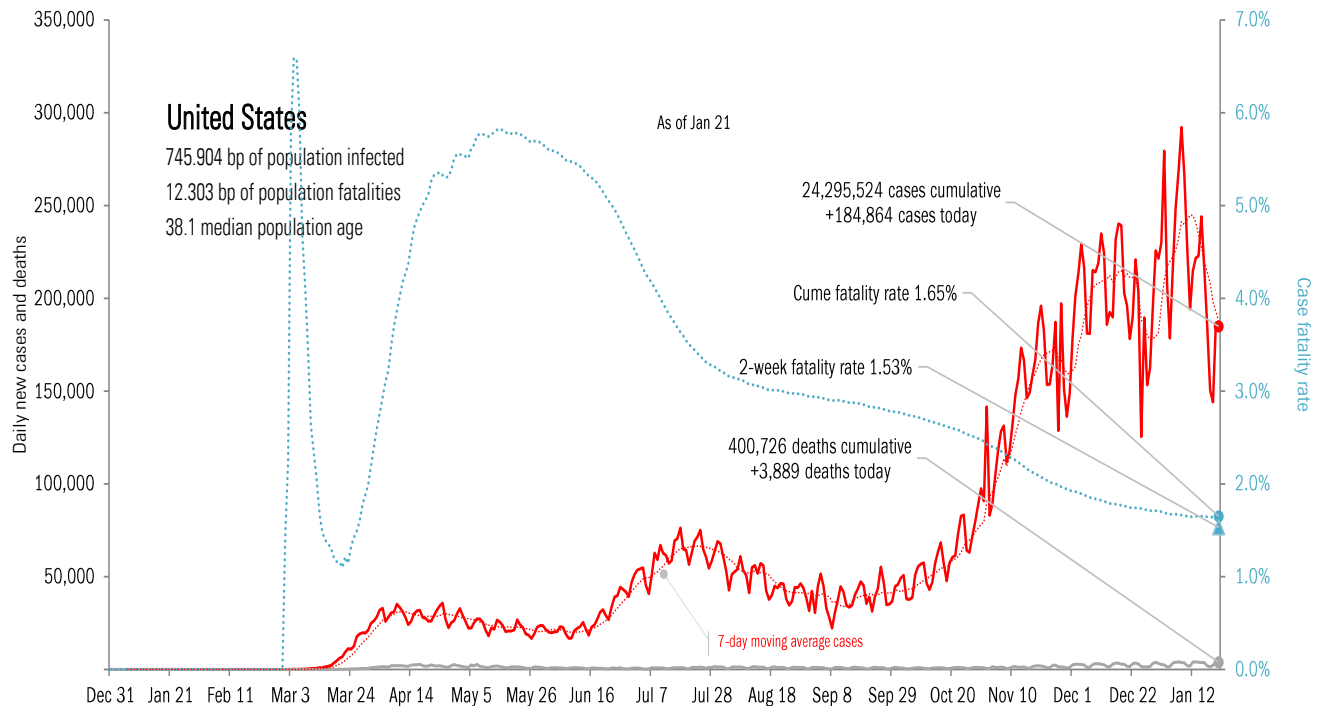
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
TX	+22,360		CA	+571		NM	+39		CA	3,039,044		CA	35,004		NY	89,995		RI	100%	GA	95%
CA	+19,673		TX	+441		ID	+20		TX	2,188,643		NY	33,594		FL	70,306		GA	87%	AL	94%
NY	+13,886		PA	+260		FR	+13		FL	1,584,442		TX	33,285		NJ	55,191		MA	83%	TX	90%
FL	+12,602		AZ	+244		VT	+4		NY	1,285,337		FL	25,128		AZ	48,604		SC	83%	CA	89%
AZ	+9,398		NY	+179		WY	+3		IL	1,086,333		NJ	20,760		GA	47,680		CA	81%	OK	89%
CH	+7,271		FL	+163		AK	+1		CH	849,704		IL	20,423		CH	44,315		PA	81%	RI	86%
NC	+7,187		MI	+163		IN	+1		PA	788,834		PA	20,128		AL	40,277		MD	80%	NC	86%
GA	+5,908		NC	+139		AS	+0		GA	701,308		MI	14,933		IN	39,045		AL	80%	MO	86%
PA	+5,664		IL	+138		IA	+0		AZ	699,942		MA	13,906		MD	30,498		FL	80%	TN	84%
MA	+5,140		TN	+128		KS	+0		NC	698,099		GA	12,889		MN	23,676		NC	79%	NV	84%
+109,089			+2,426			+81			12,921,686			230,050			489,587						
All states	+184,864			+3,889			-2773		All states	24,295,524			400,726			772,059		All states	75%		78%
Top ten	59%			62%			-3%		Top ten	53%			57%			63%		Median	73%		74%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TX	-8,895	MO	-174	PA	-413	TX	+24,111
KS	-3,590	PA	-141	CA	-278	CH	+8,819
CA	-2,730	CA	-123	NY	-255	TN	+6,016
TN	-991	GA	-85	TX	-248	UT	+4,680
SC	-876	AL	-61	NJ	-193	PA	+4,418

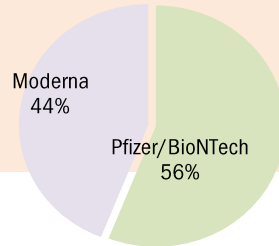


Source: [Covid Tracking Project](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US

US overall	Over last day
37.96 million doses distributed	+1.97 million/day
17.55 million doses administered	+1.02 million/day
15.05 million persons with one or more shot	+0.78 million/day
2.39 million persons with two or more shots	+0.23 million/day
2.09 million shots in long-term care	+0.18 million/day

46.2% of distributed doses administered
5.3% of US population vaccinated
4.6% of US population one shot
0.7% of US population two shots
1.5 doses per long-term care resident



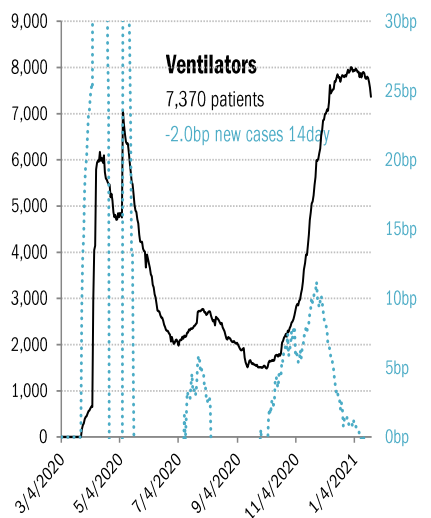
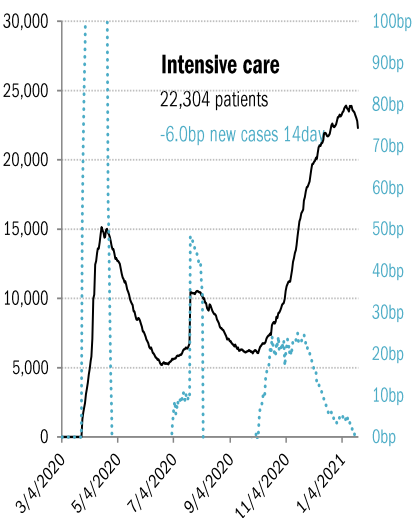
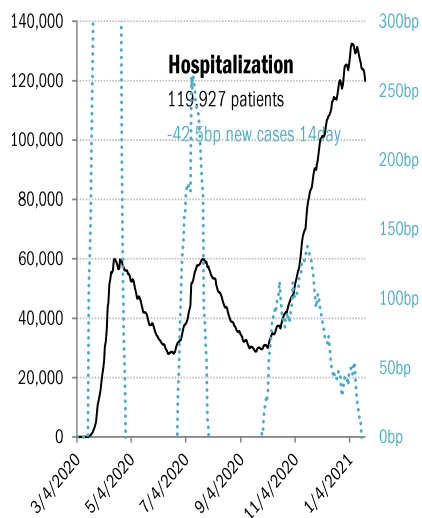
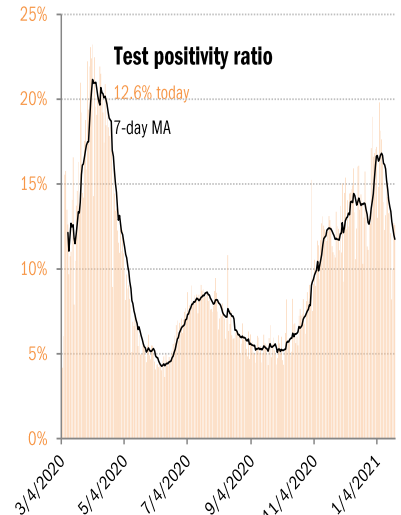
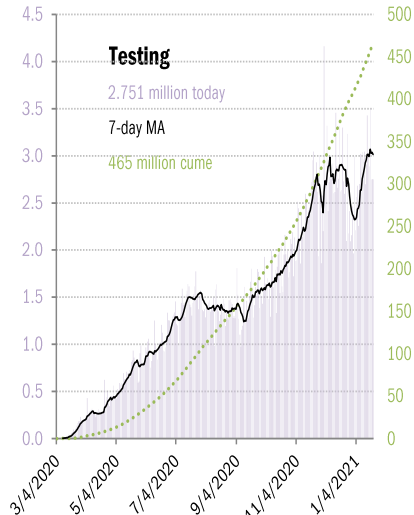
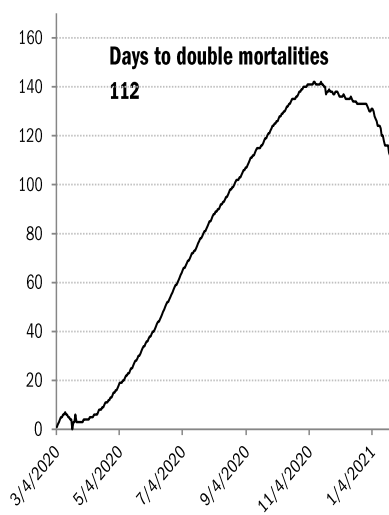
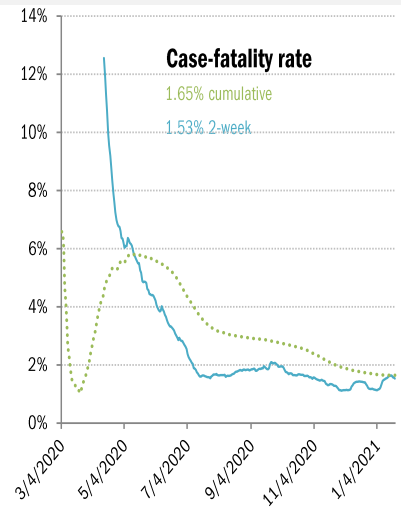
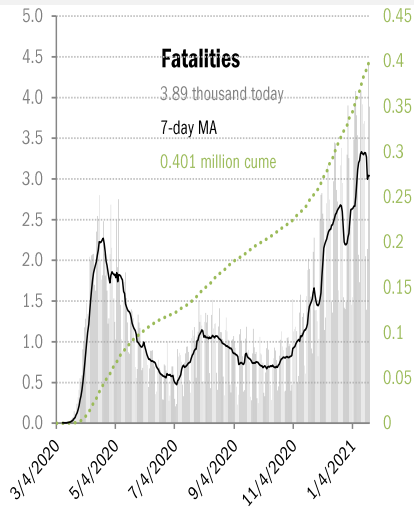
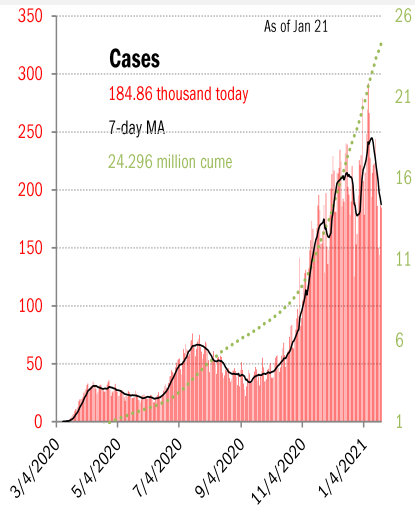
State	Doses distributed as % population	One shot received as % population	Two shots received as % distributed
AK	21.1%	8.1%	1.7%
ME	12.3%	5.0%	0.9%
VT	12.6%	5.8%	1.0%
NH	11.4%	5.2%	0.8%
WI	9.9%	3.5%	0.6%
WA	10.8%	4.0%	0.7%
ID	10.0%	3.4%	0.7%
MT	10.5%	4.7%	0.9%
ND	10.9%	6.4%	1.3%
MN	11.6%	3.8%	0.8%
IL	9.3%	3.6%	0.9%
MI	10.6%	4.6%	0.8%
NY	11.4%	5.0%	0.6%
MA	11.3%	4.4%	0.7%
OR	11.4%	4.6%	0.6%
NV	9.0%	3.1%	0.6%
WY	11.7%	4.5%	0.6%
SD	11.2%	6.2%	1.2%
IA	10.4%	4.4%	0.5%
IN	12.1%	4.8%	1.0%
OH	9.6%	3.9%	0.3%
PA	10.5%	4.0%	0.8%
NJ	10.4%	4.3%	0.6%
CT	12.2%	6.5%	0.8%
RI	12.0%	4.5%	1.1%
CA	11.1%	3.4%	0.7%
UT	10.5%	5.2%	0.5%
CO	11.4%	5.2%	0.9%
NE	12.3%	4.9%	0.8%
MO	10.1%	3.3%	1.0%
KY	10.1%	4.9%	0.4%
WV	12.9%	7.6%	1.8%
VA	11.6%	3.8%	0.5%
MD	11.3%	4.0%	0.5%
DE	10.9%	4.3%	0.8%
AZ	11.0%	3.6%	0.6%
NM	11.3%	5.9%	1.3%
KS	10.7%	3.8%	0.6%
AR	12.0%	4.8%	0.9%
TN	10.6%	4.6%	0.9%
NC	11.0%	3.9%	0.6%
SC	8.6%	3.4%	0.7%
DC	10.7%	6.1%	1.7%
OK	12.4%	5.8%	0.9%
LA	10.6%	5.2%	0.8%
MS	11.2%	4.2%	0.4%
AL	10.1%	2.9%	0.4%
GA	10.9%	3.8%	0.4%
HI	13.4%	4.5%	1.1%
TX	9.5%	4.6%	0.7%
FL	11.9%	5.2%	0.5%
PR	10.3%	3.8%	0.8%

As of Jan 21

Source: [CDC](#), TrendMacro calculations

US deep-dive

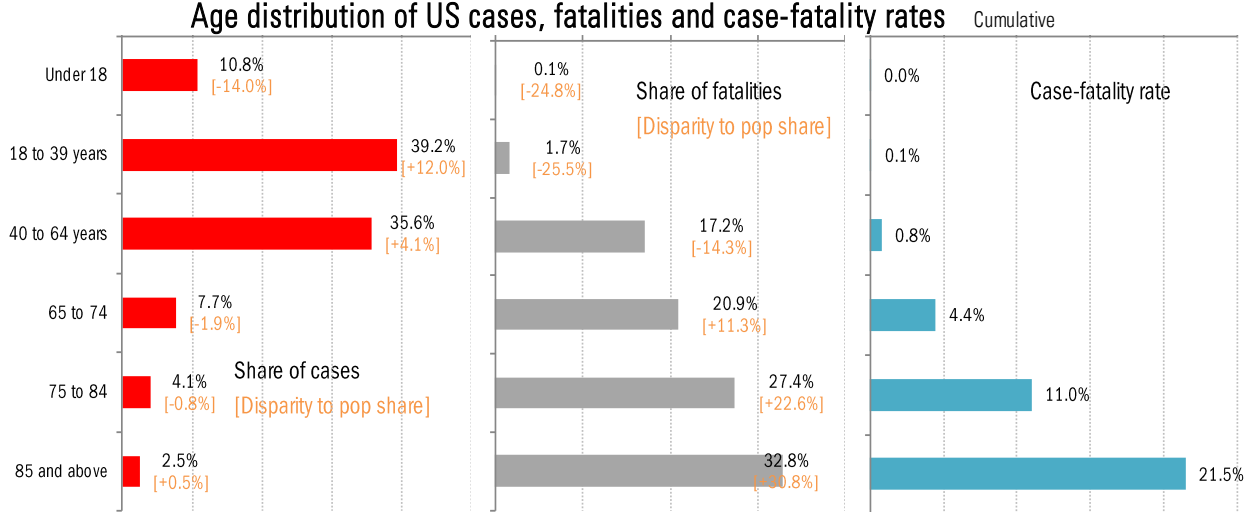
National and state-by-state data do not line up because of different sources



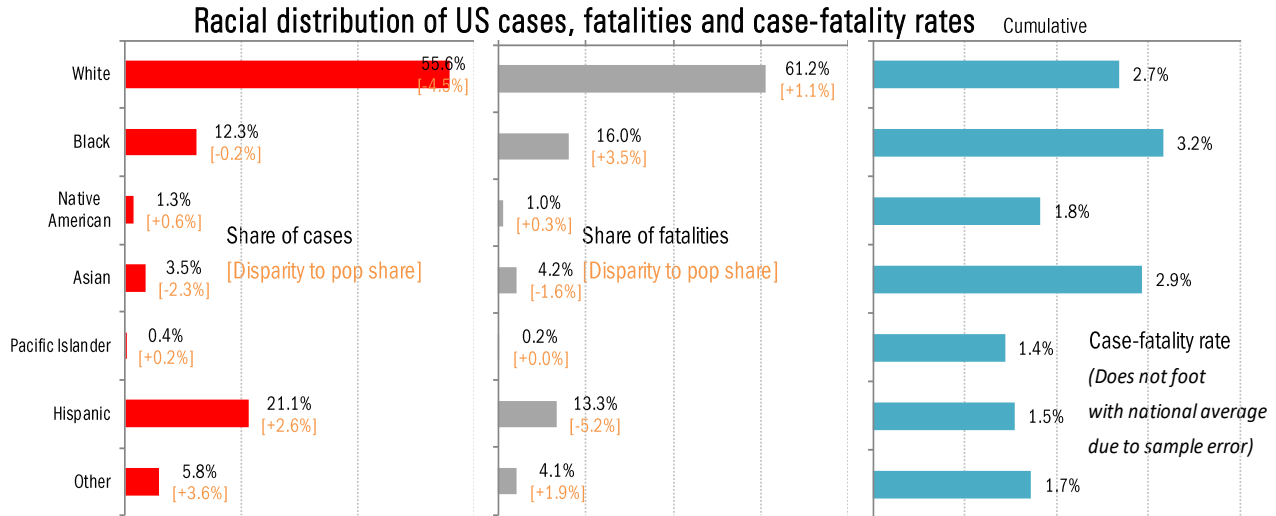
Source: [Covid Tracking Project](#), TrendMacro calculations

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

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

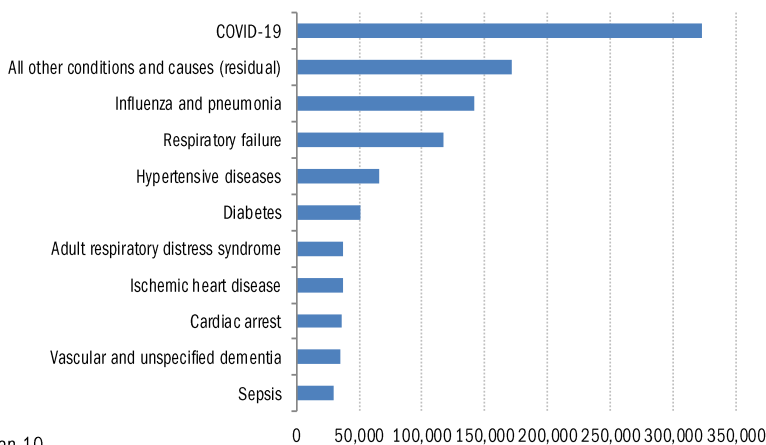


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jan 10

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

[Regeneron's Antibody Miracle for Covid-19](#)

David Asman
Wall Street Journal
January 21, 2021

[Two Masks Are the New Masks](#)

Tara Parker-Pope
New York Times
January 21, 2021

[Teachers Unions Are Positioning to Negotiate How and When Schools Will Reopen. Money, Not Safety, Will Decide](#)

Mike Antonucci
The 74
January 12, 2021

[Israel coronavirus cases soar even as it pushes on with vaccine drive](#)

Mehul Srivastava and Clive Cookson
Financial Times
January 21, 2021

[The 1776 Report](#)

The President's Advisory 1776 Commission
January 2021

[Executive Order on Organizing and Mobilizing the United States Government to Provide a Unified and Effective Response to Combat COVID-19 and to Provide United States Leadership on Global Health and Security](#)

The White House
January 20, 2021

[Executive Order on Protecting the Federal Workforce and Requiring Mask-Wearing](#)

The White House
January 20, 2021

["Stimulus" Ain't Miracle Dust](#)

Don Boudreaux
Café Hayek
January 19, 2021

[Visual Proof Our Coronadom Rulers Are Idiots](#)

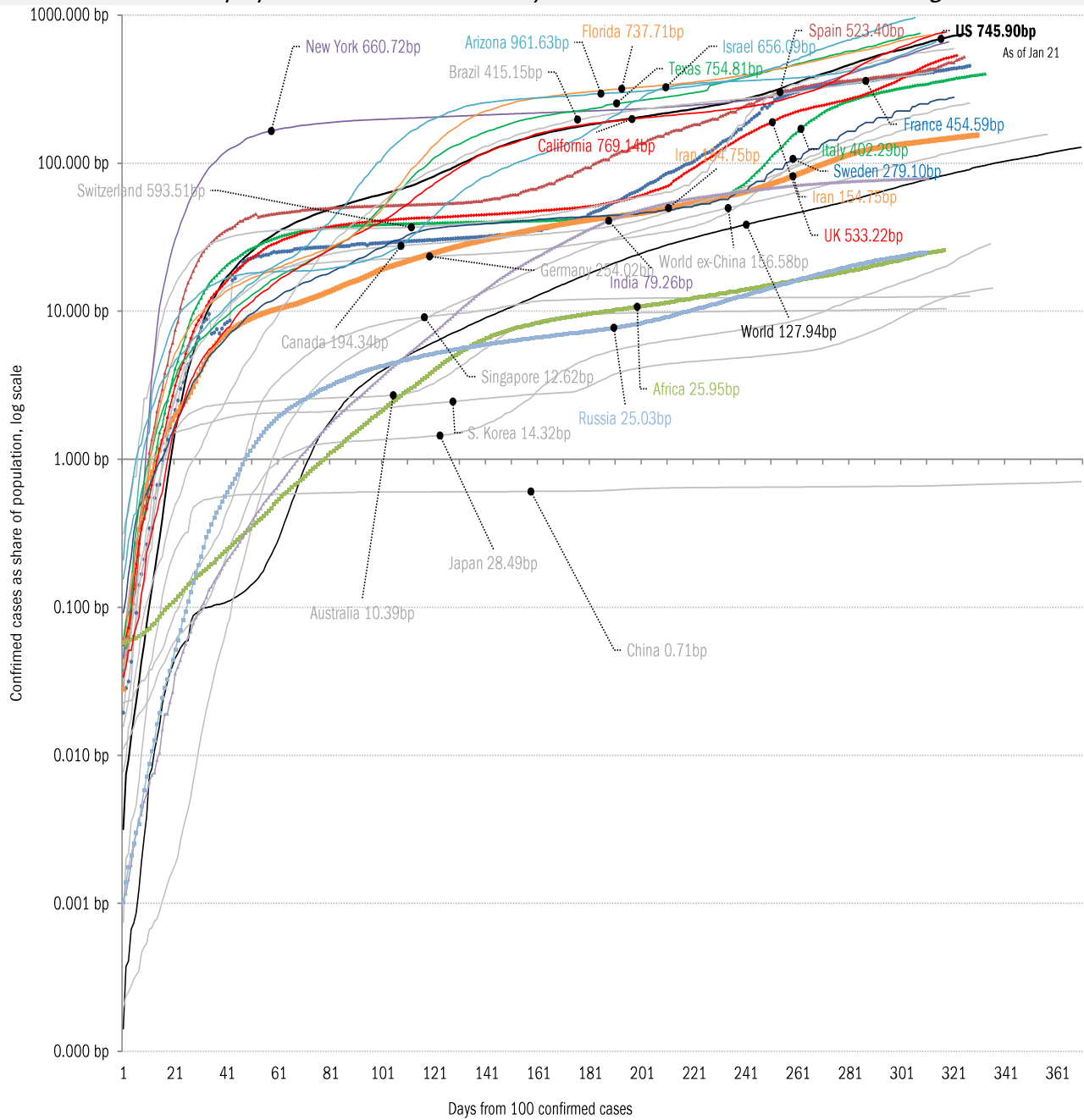
William M. Briggs
William M. Briggs
January 18, 2021

Meme of day



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

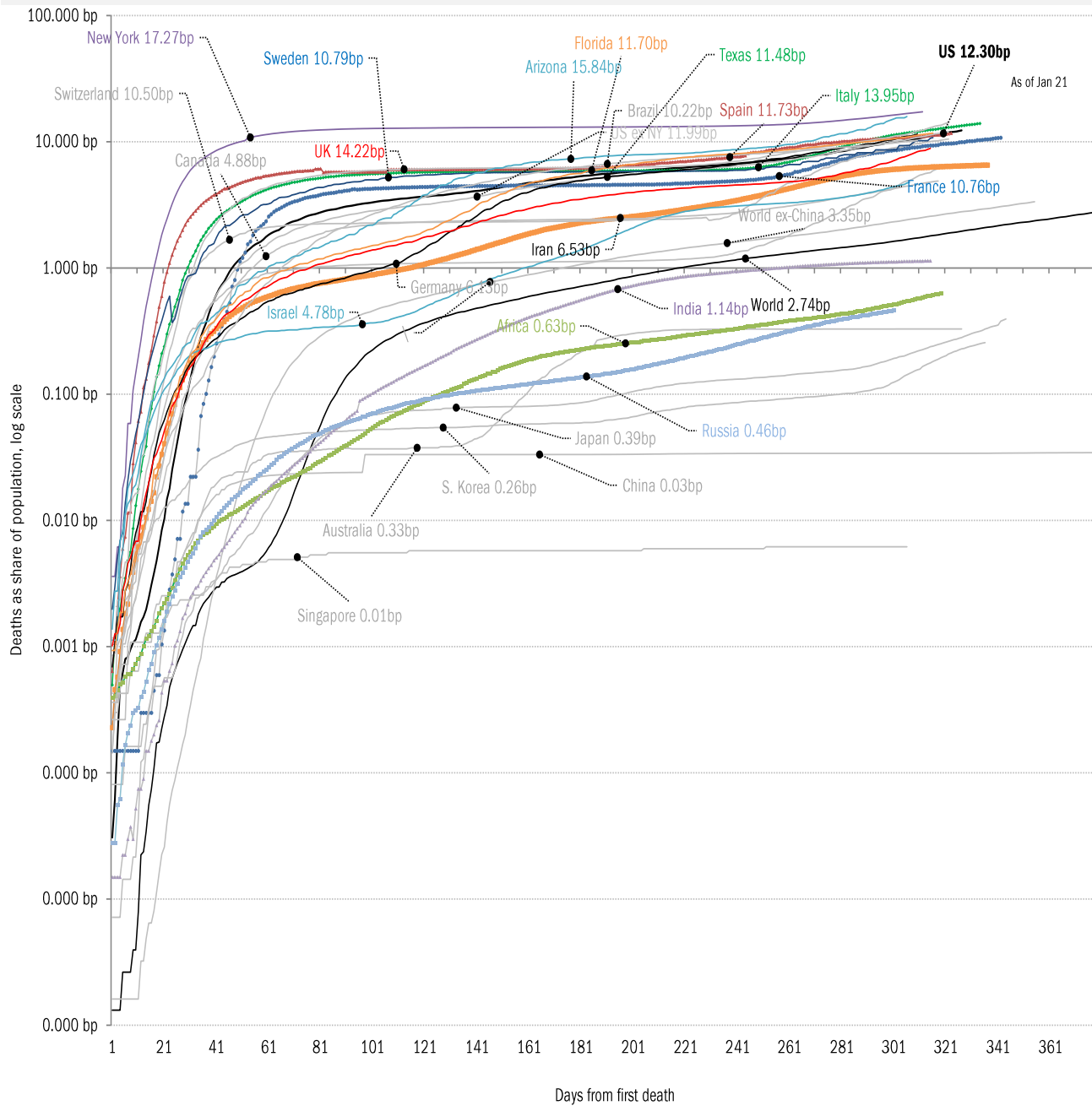
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

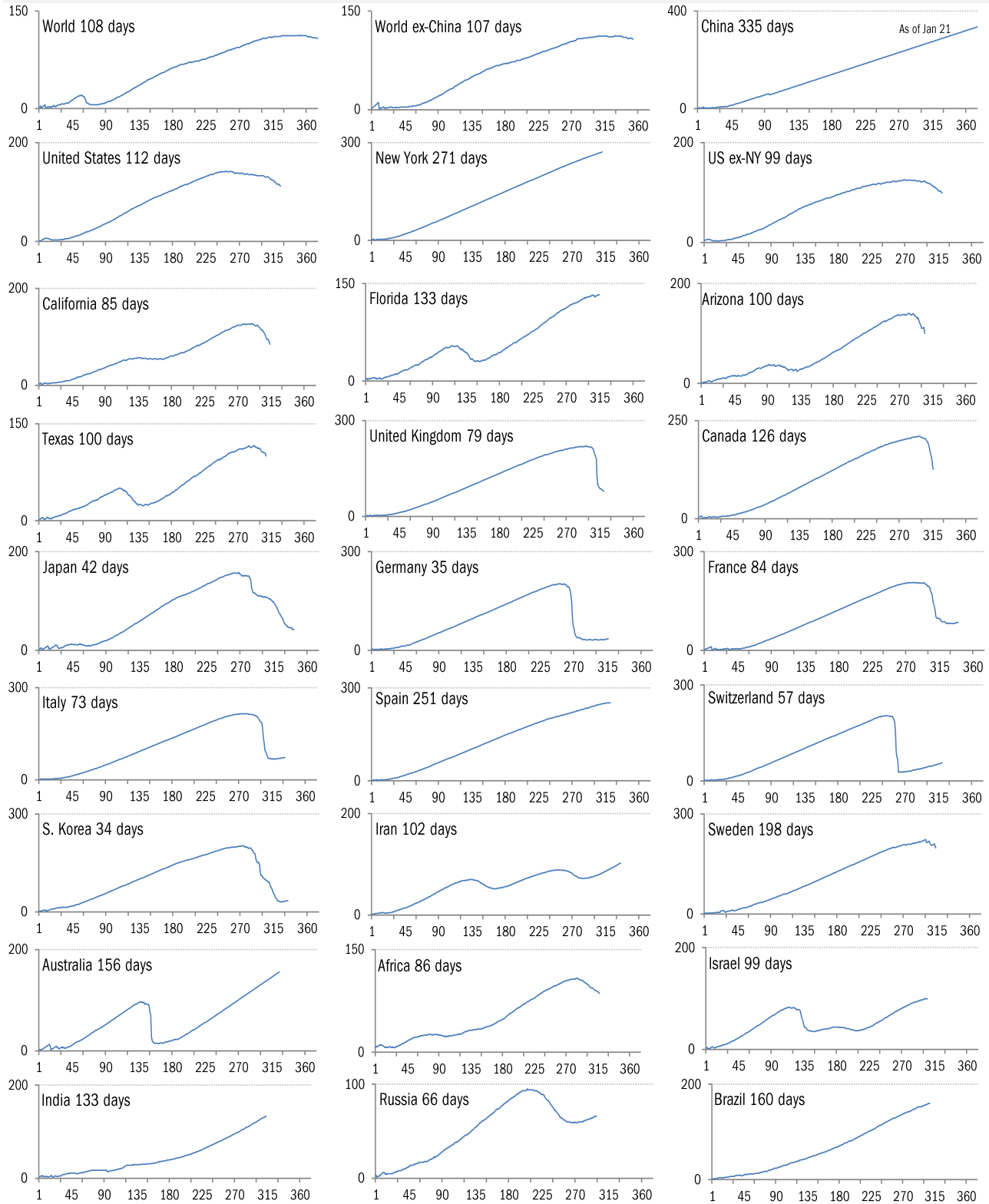


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

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

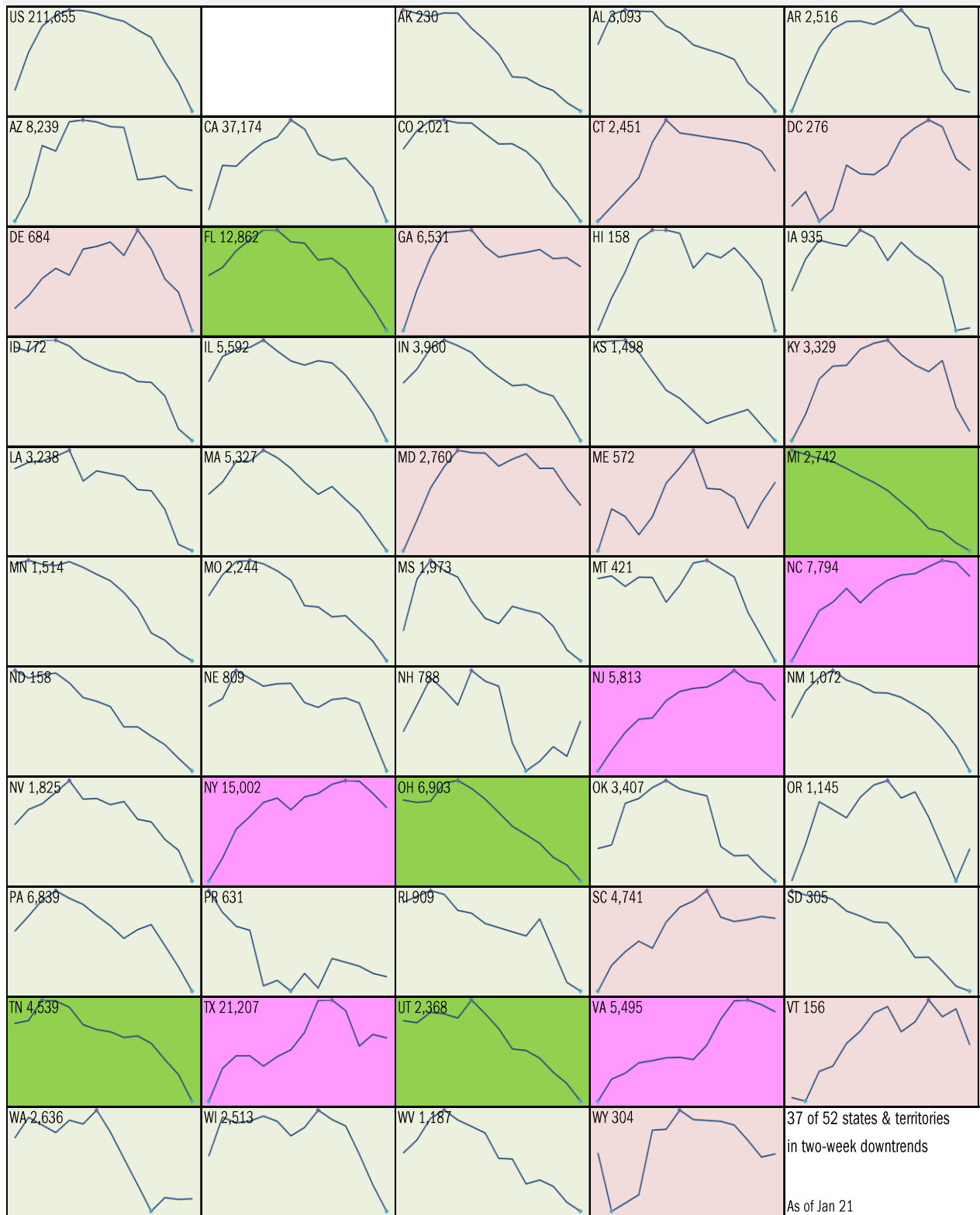
Vertical: days to double deaths Horizontal: days from first death

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



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

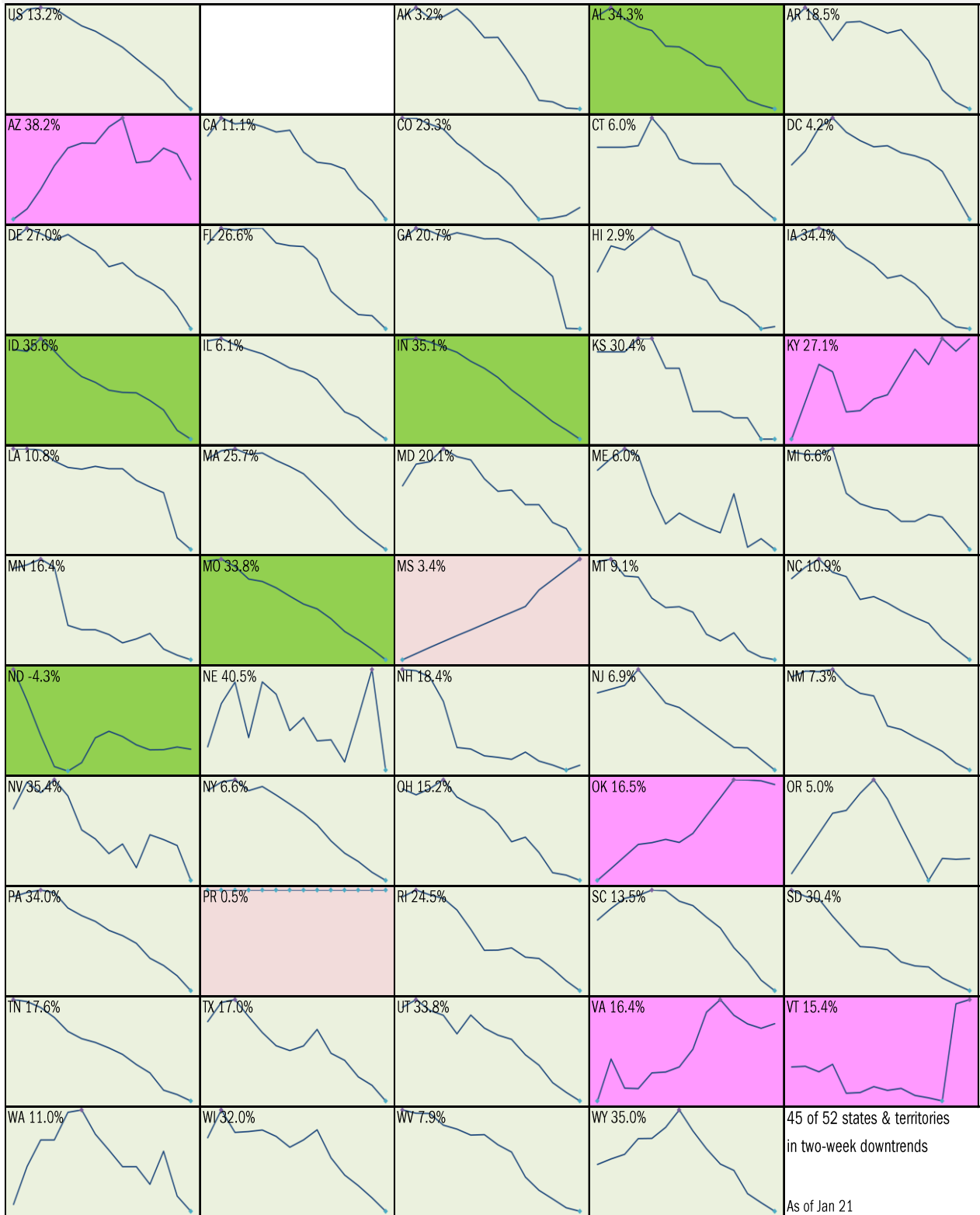
Requirement to [Open Up America Again](#): 14-day "downward trajectory" in new cases
 14-day moving average, last 14 days *Most recent value displayed* ● High ● Low
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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



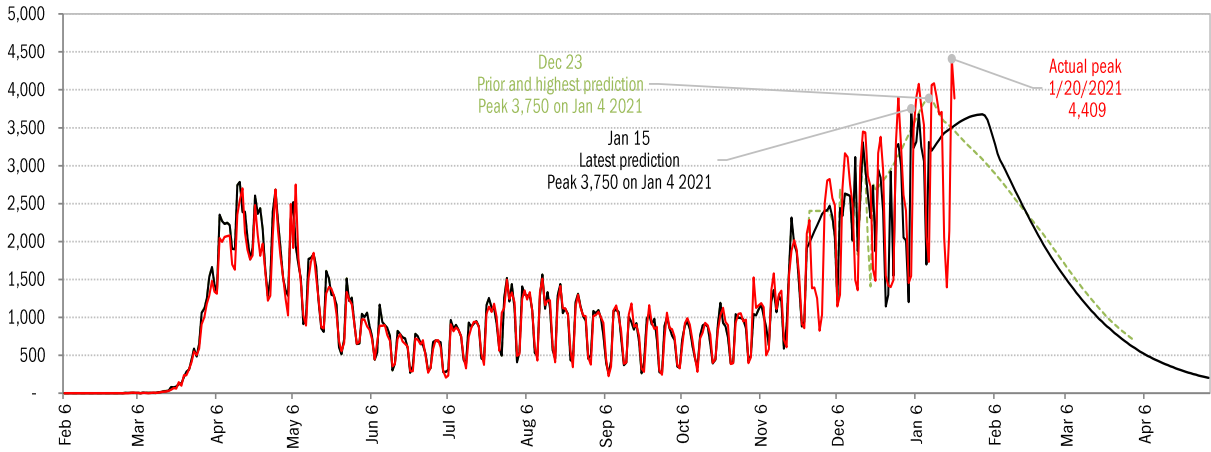
Source: [Covid Tracking Project](#), TrendMacro calculations

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

New daily fatalities

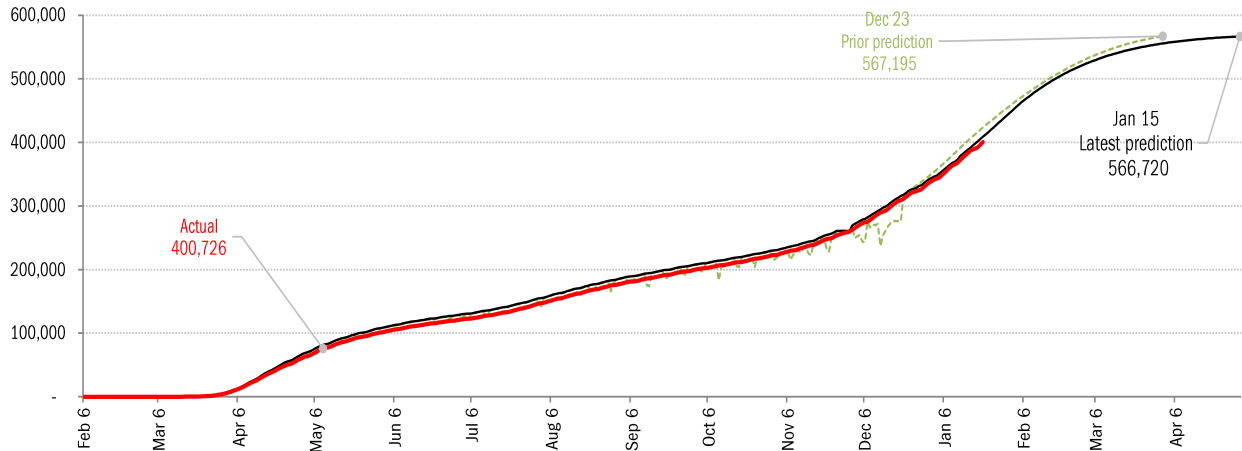
As of Jan 21

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

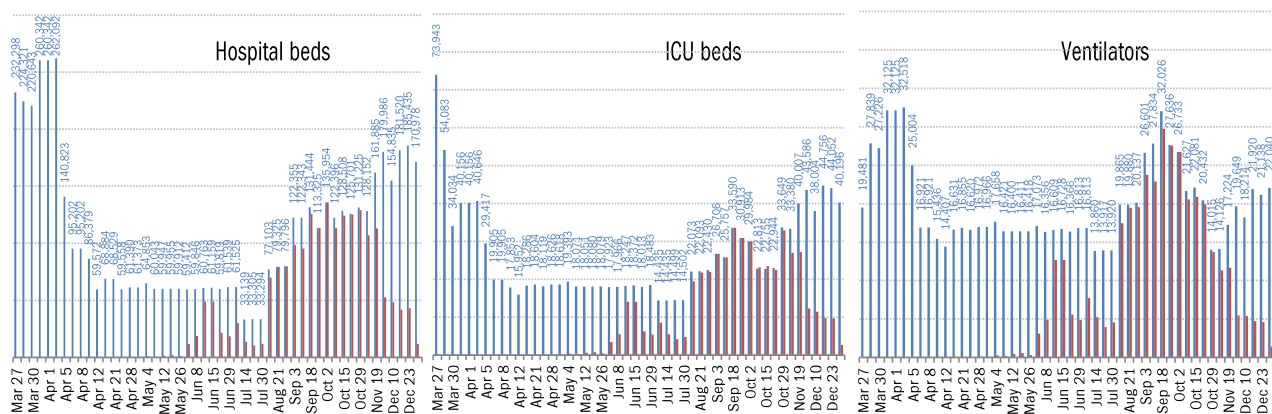


Cumulative fatalities

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

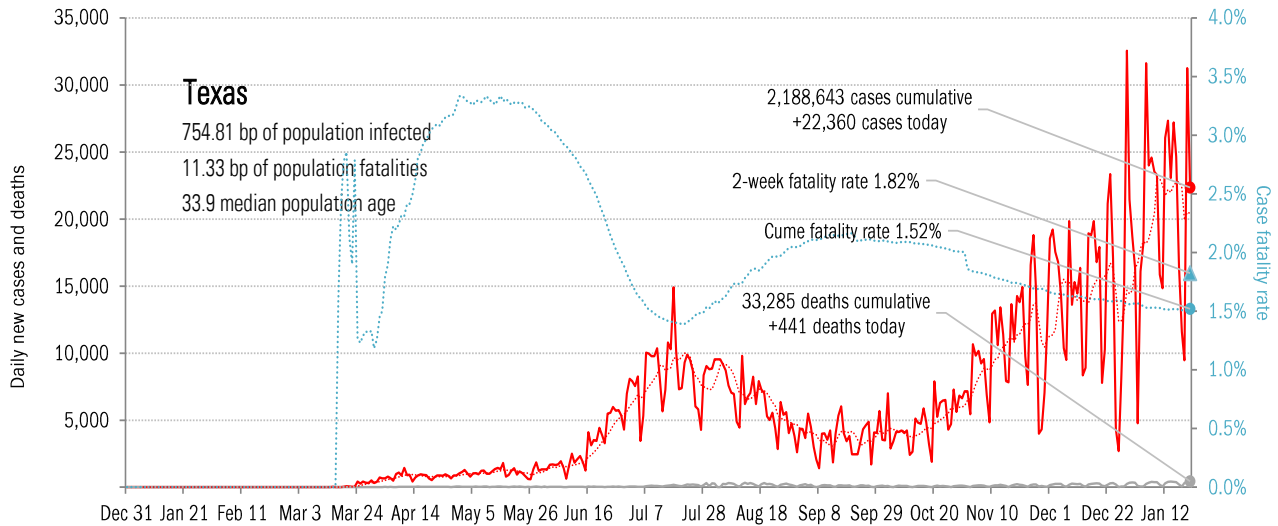
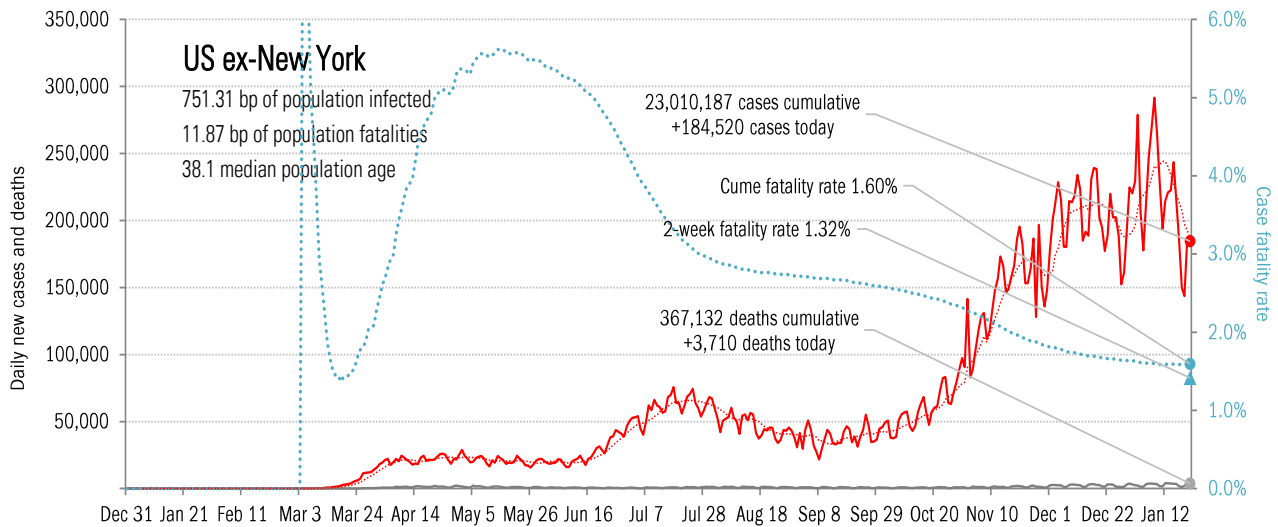
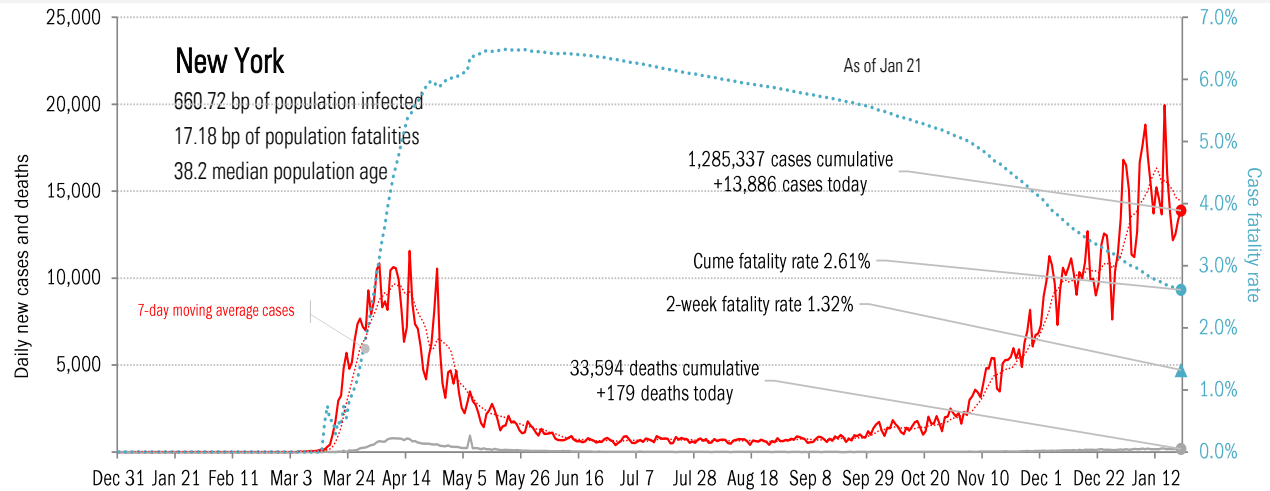


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



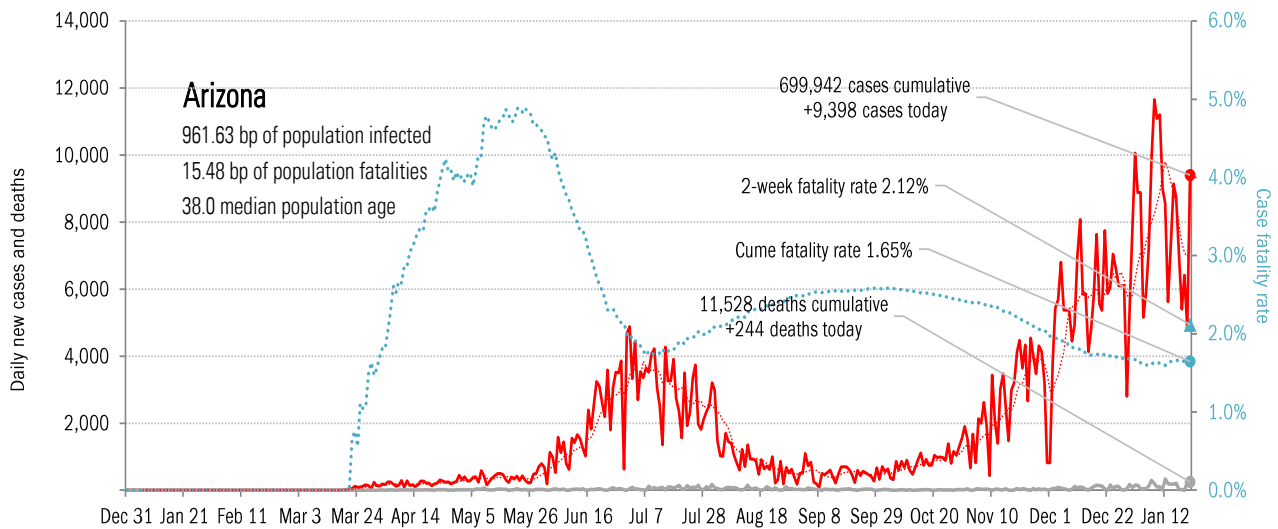
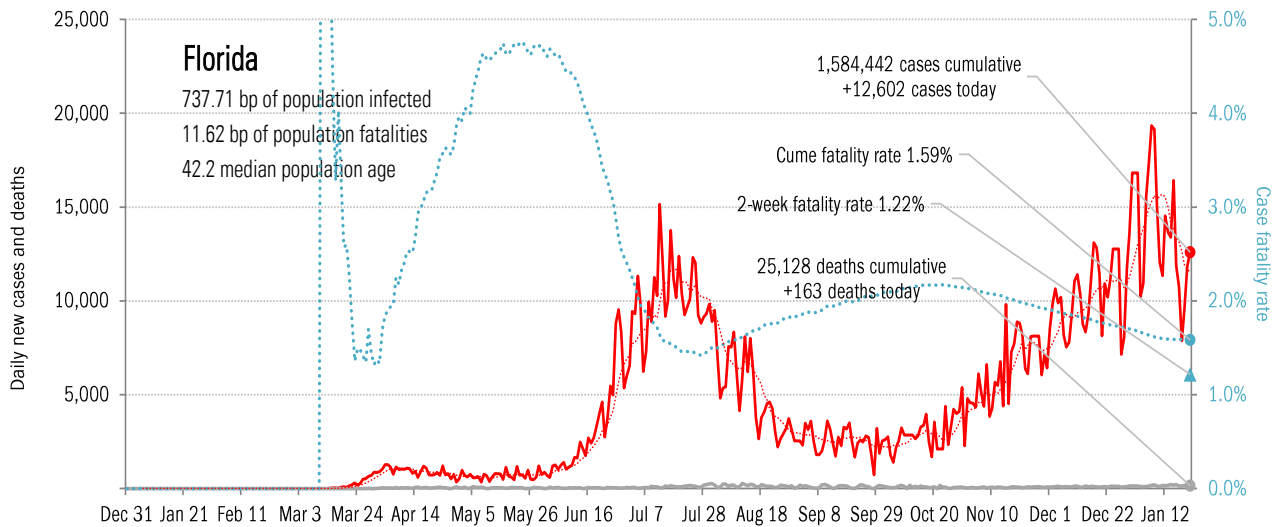
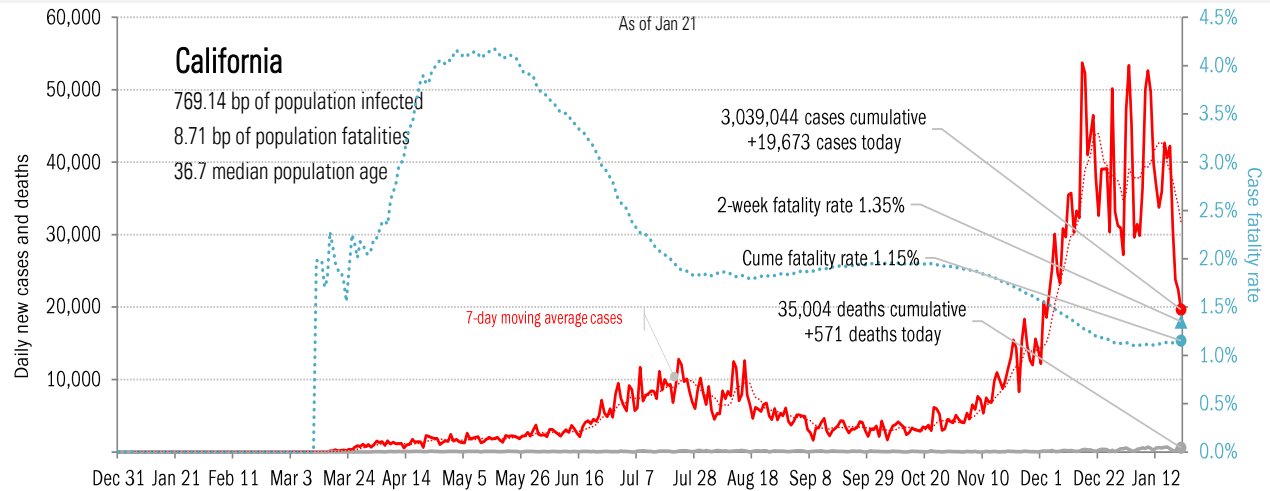
Source: [IHME Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



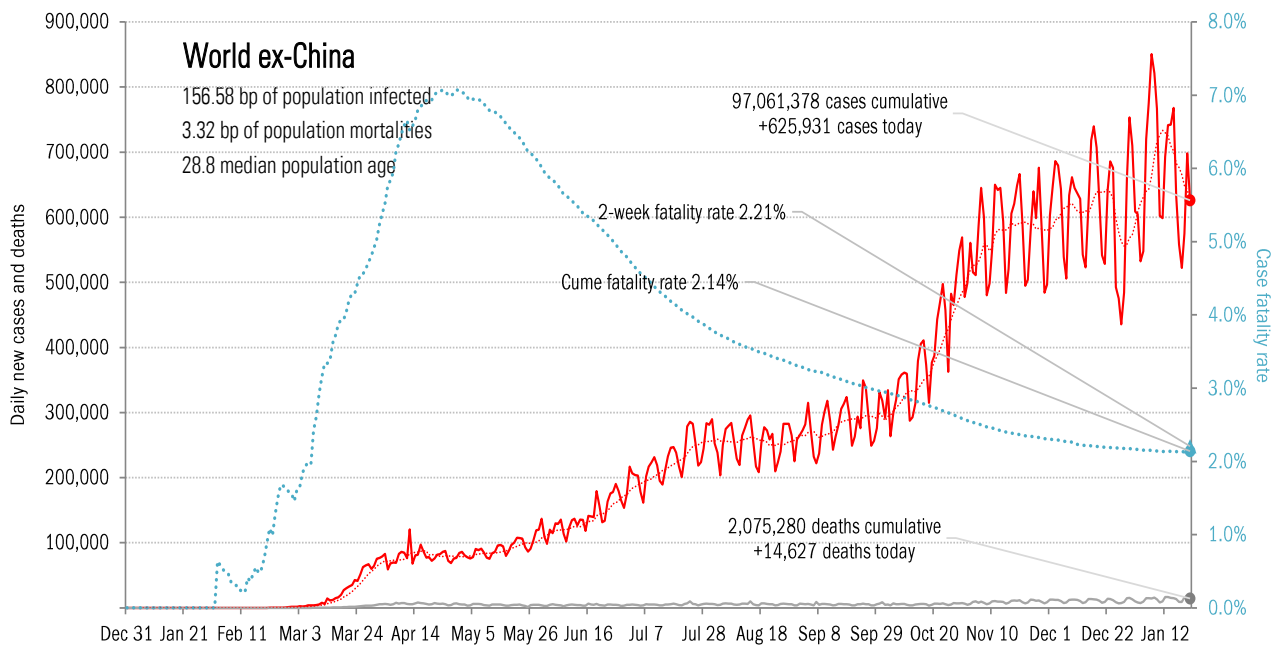
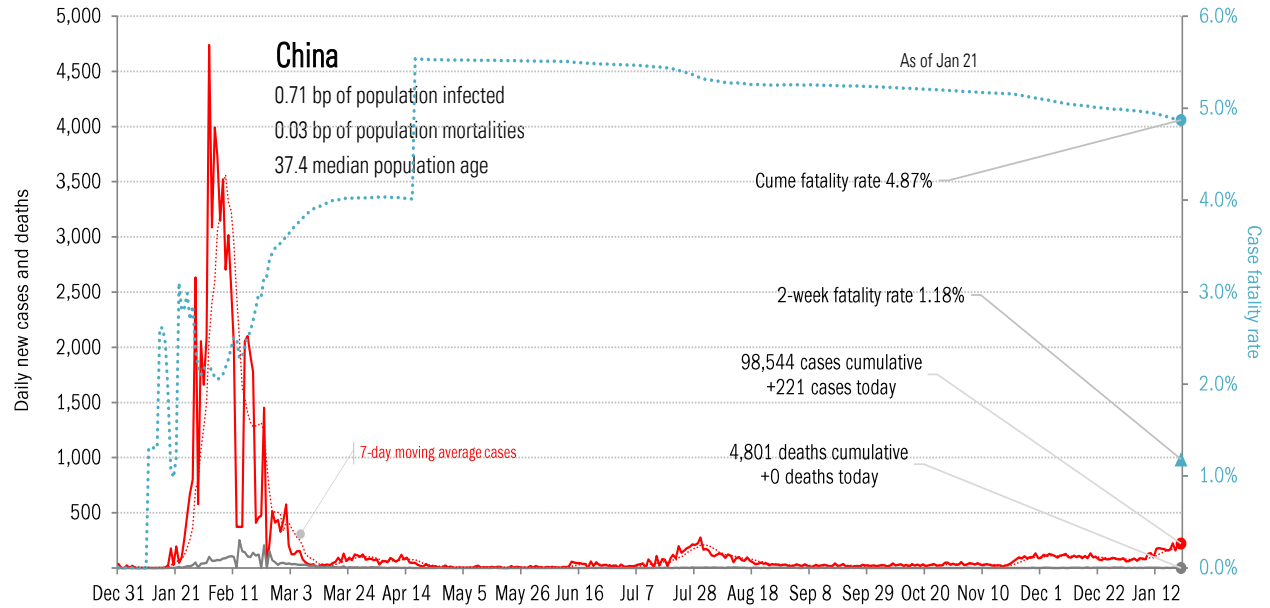
Source: [Covid Tracking Project](#), TrendMacro calculations

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



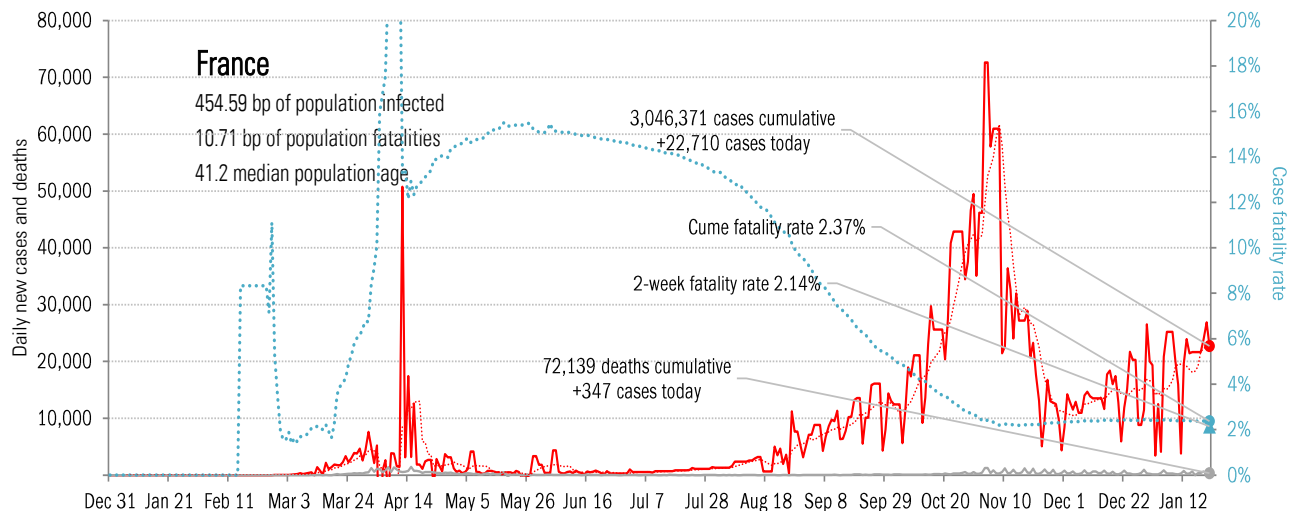
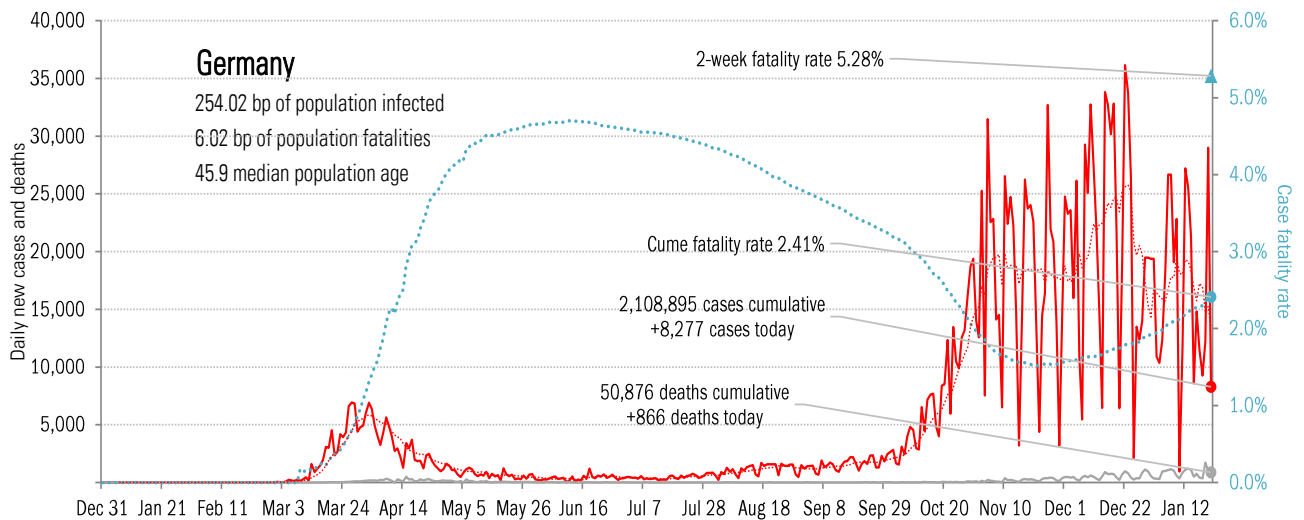
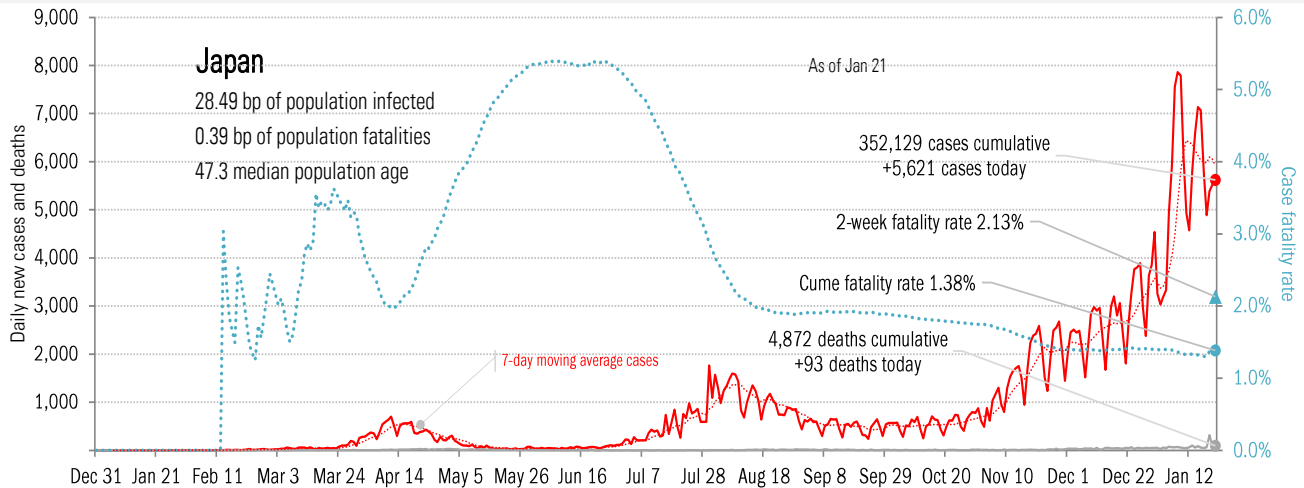
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



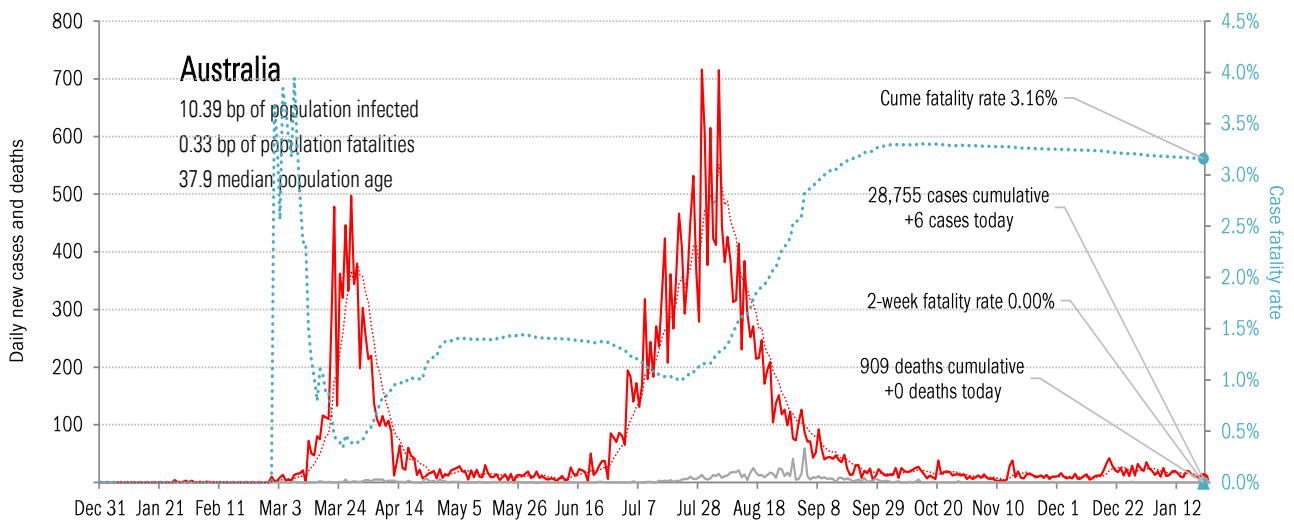
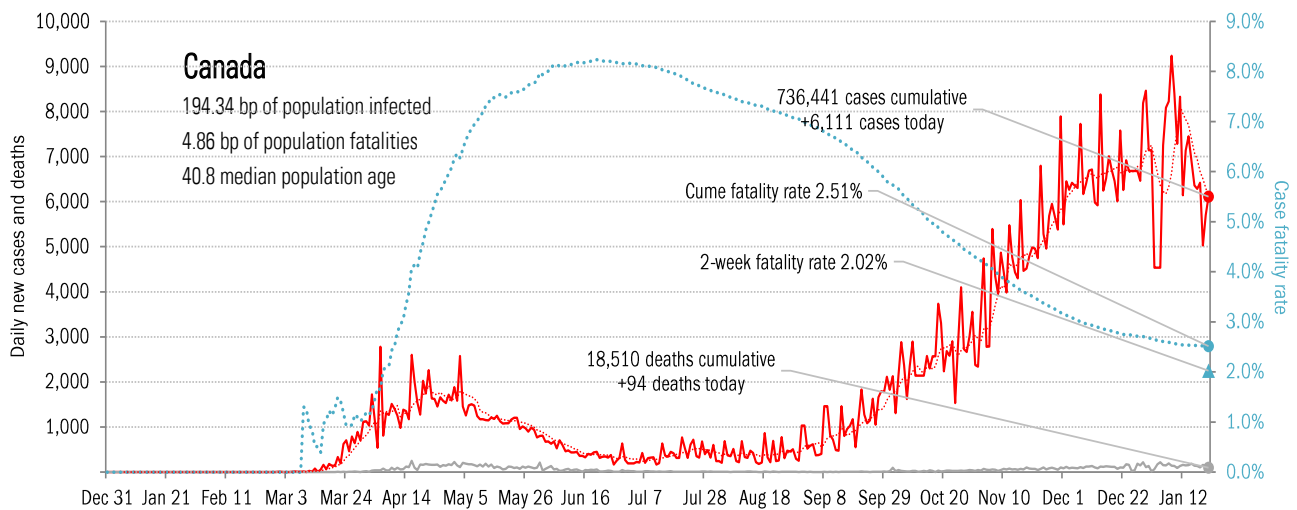
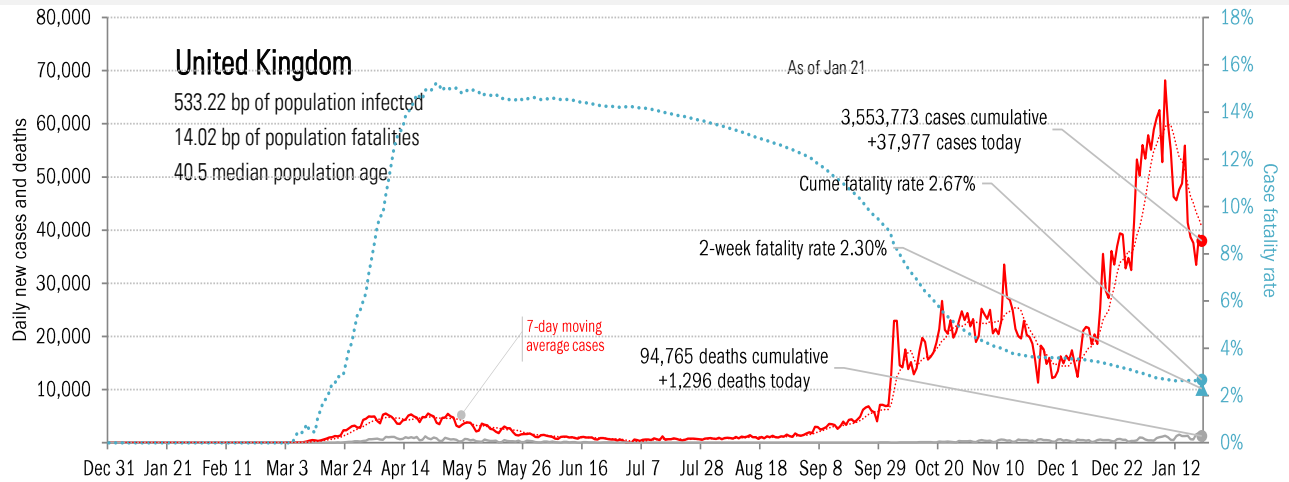
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



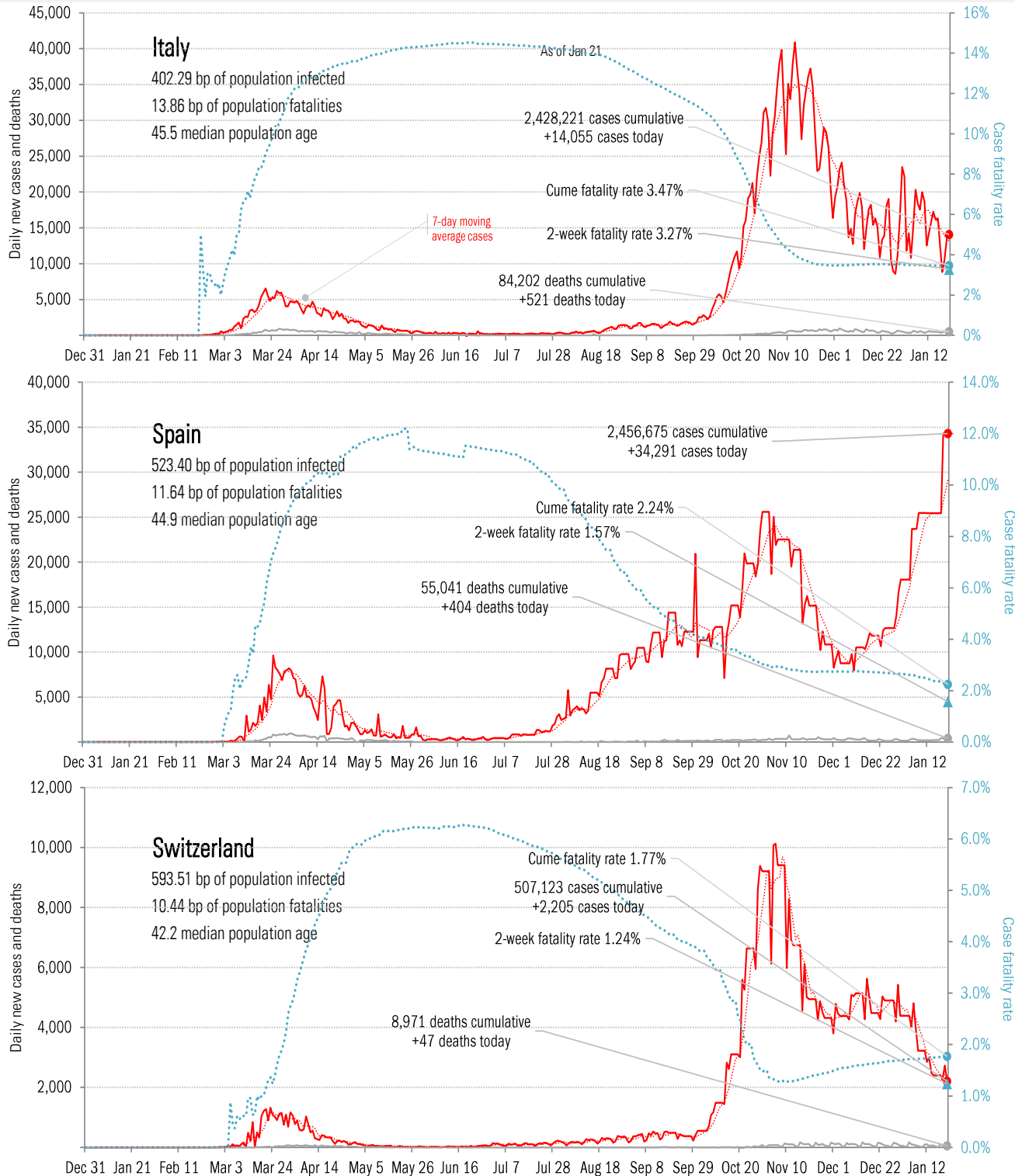
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



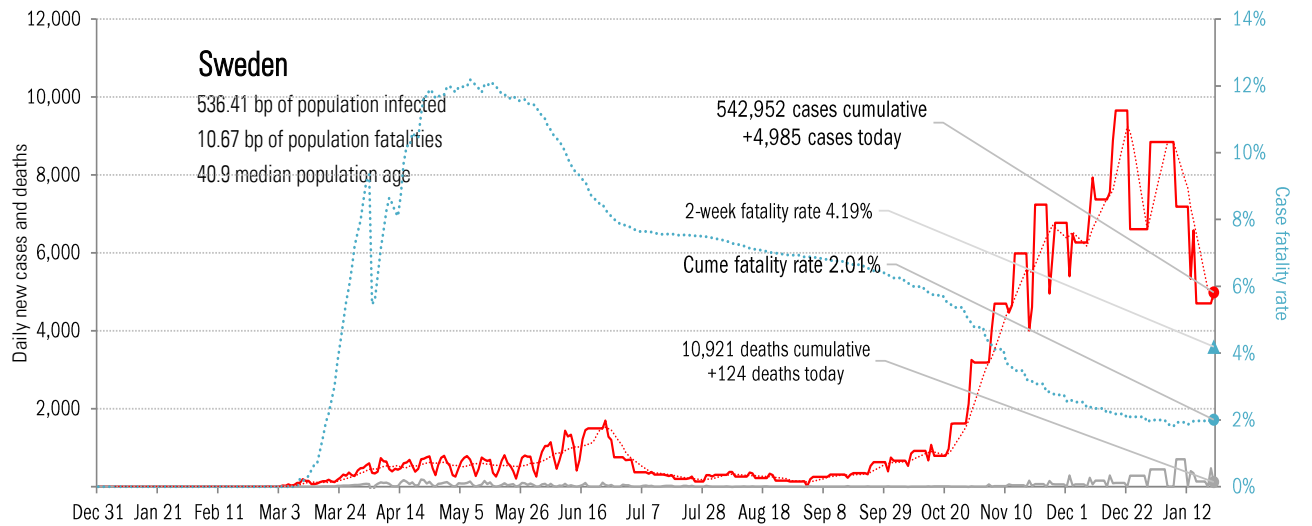
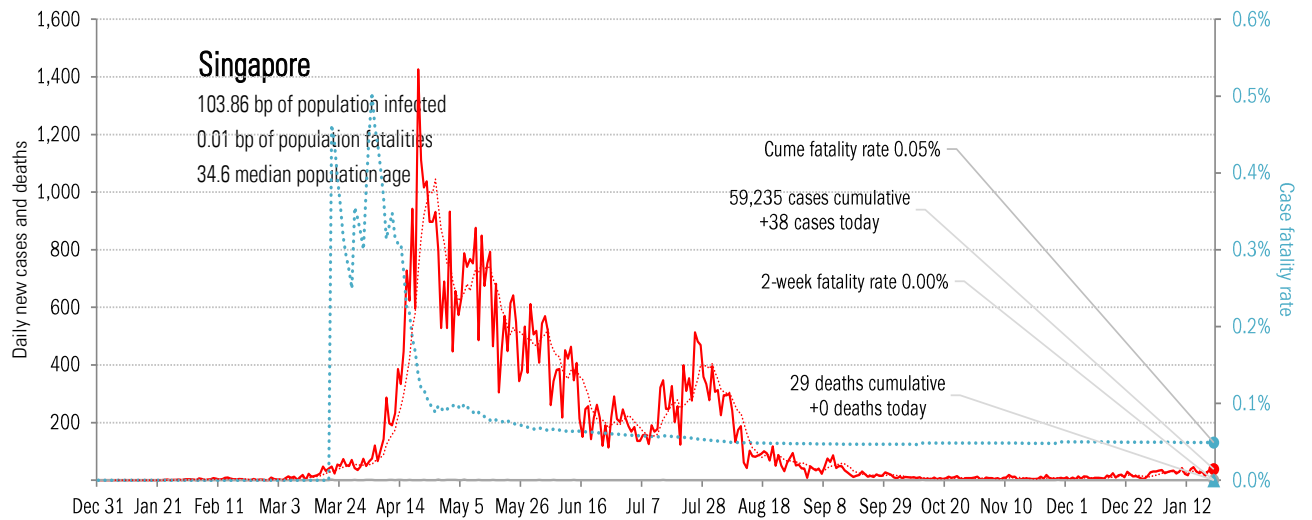
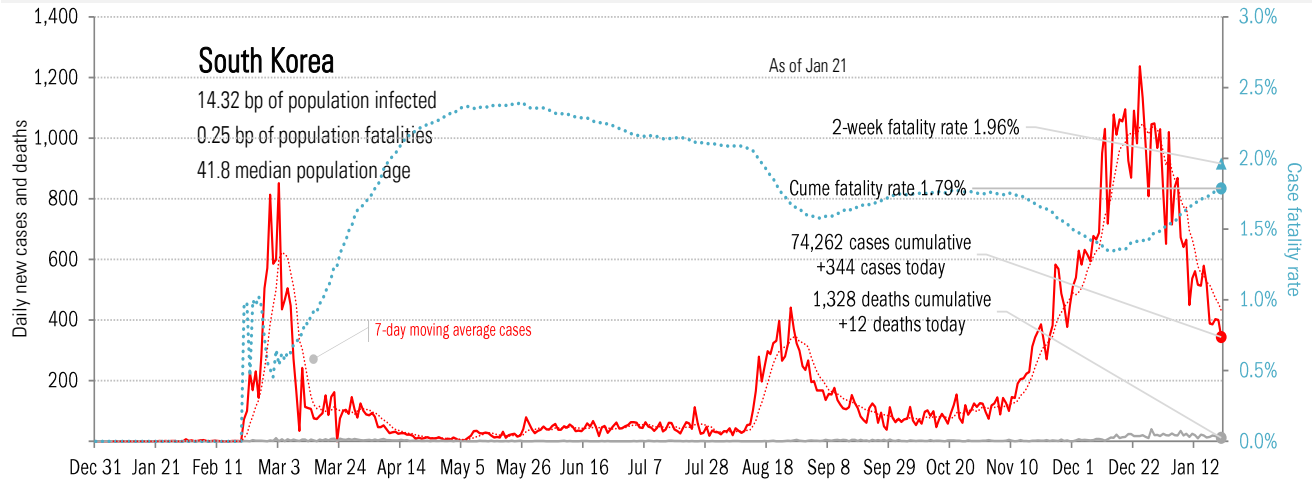
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



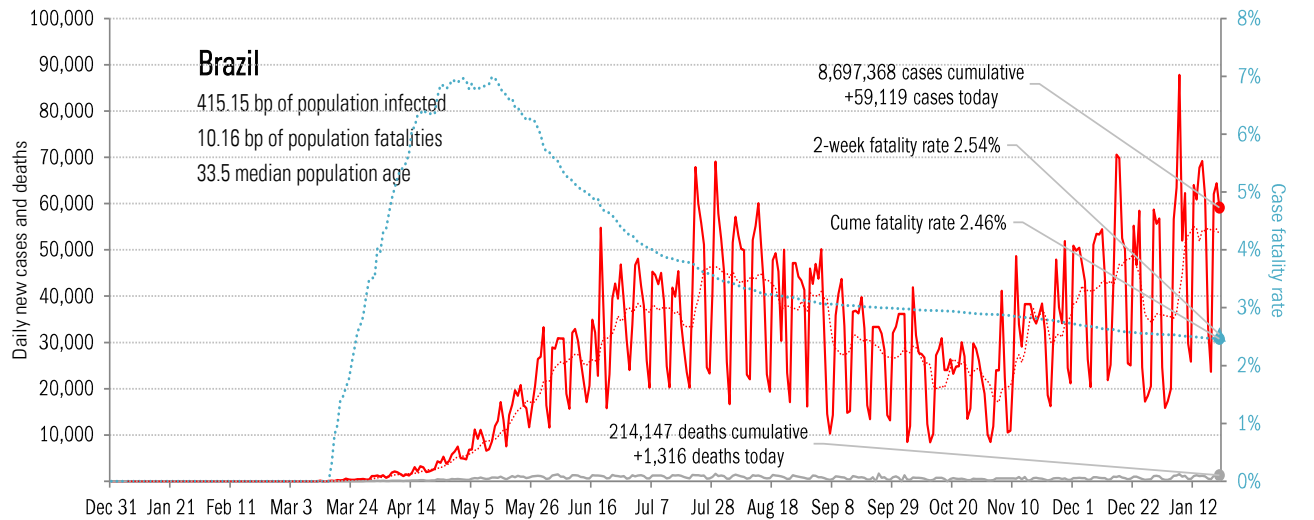
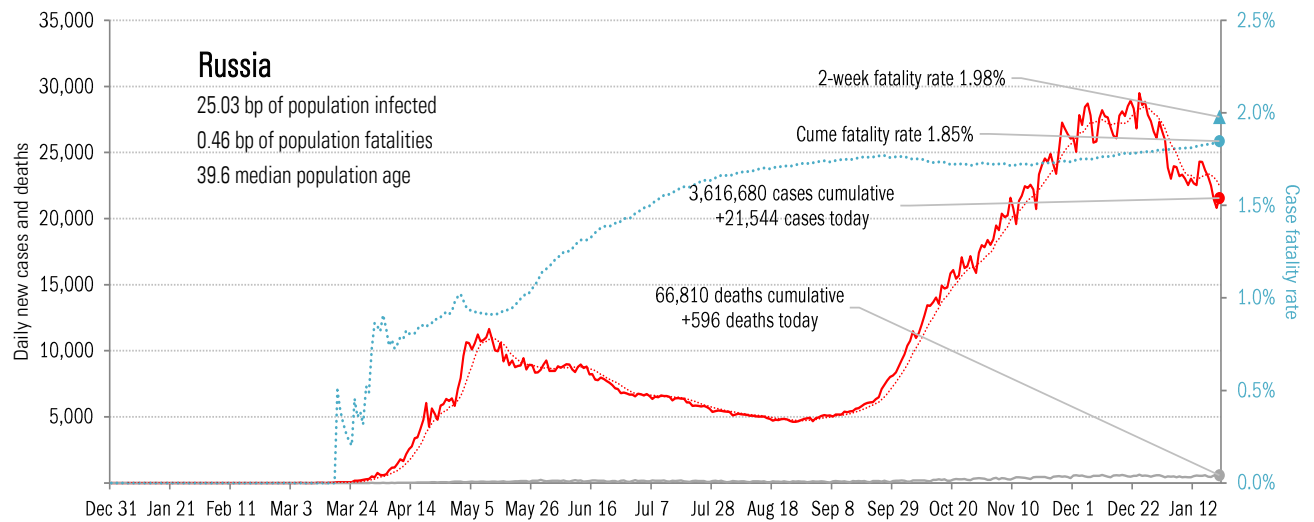
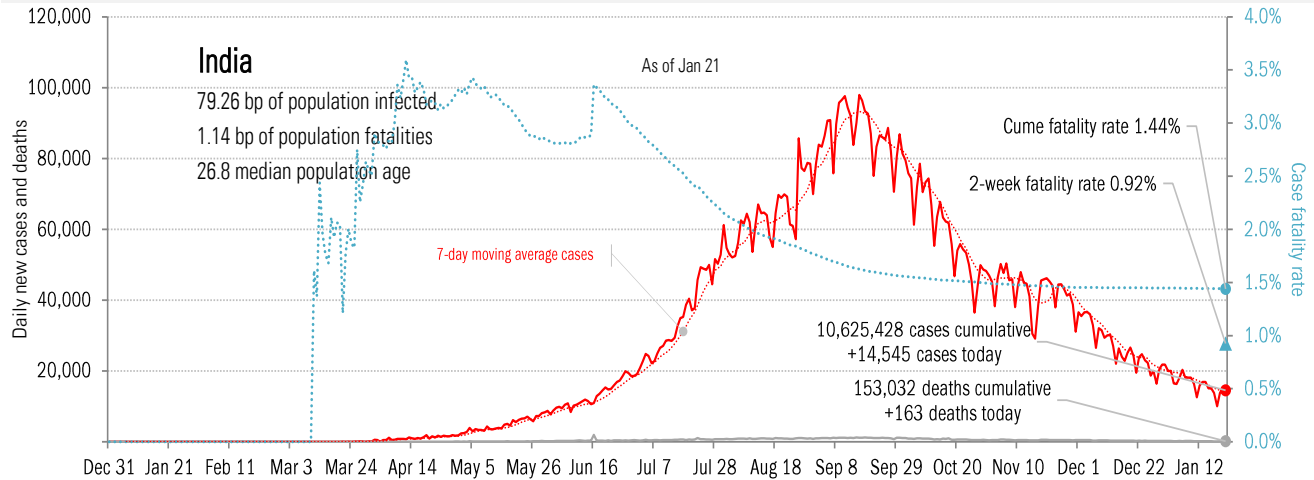
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



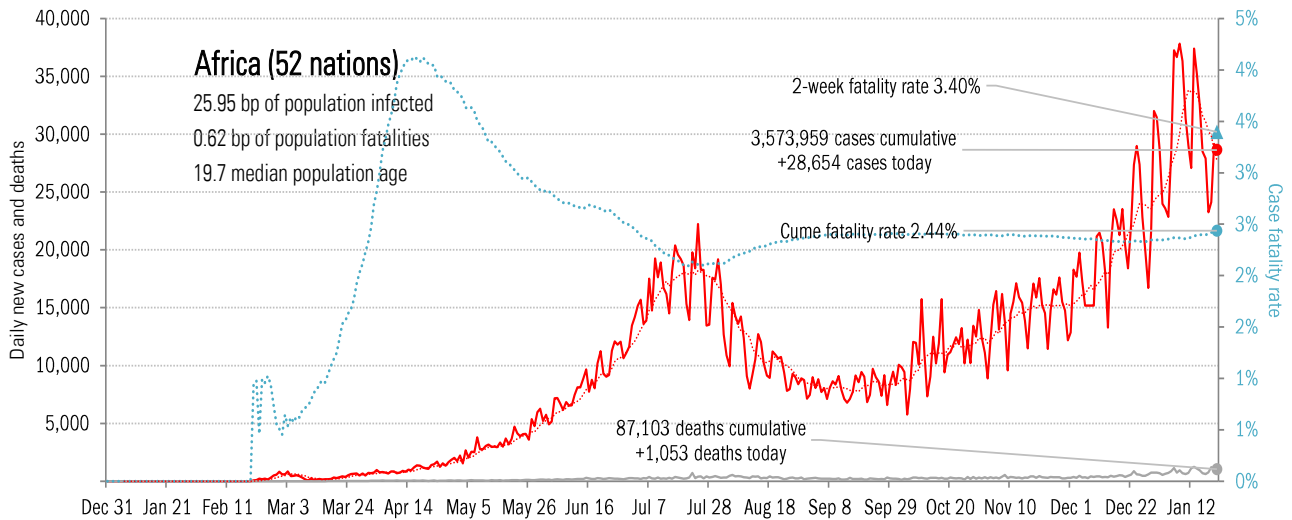
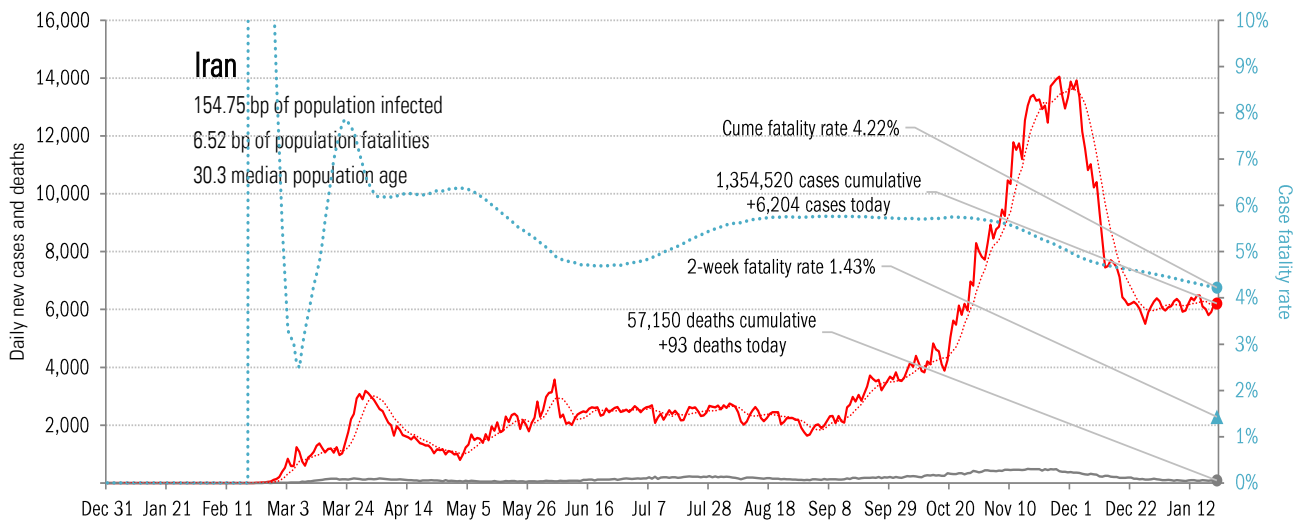
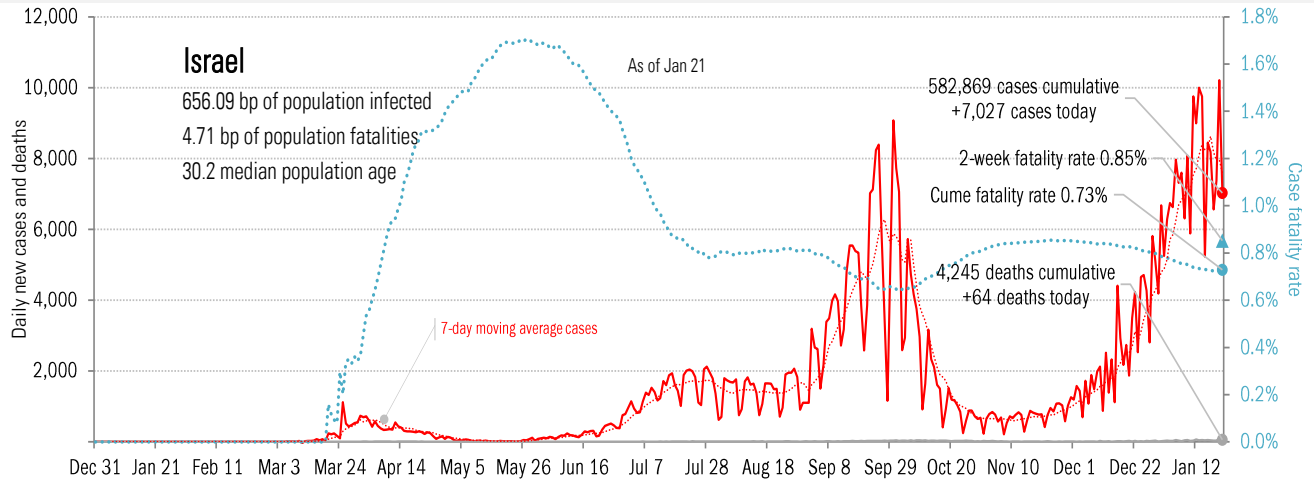
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



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

Impact in the Middle East and Africa



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