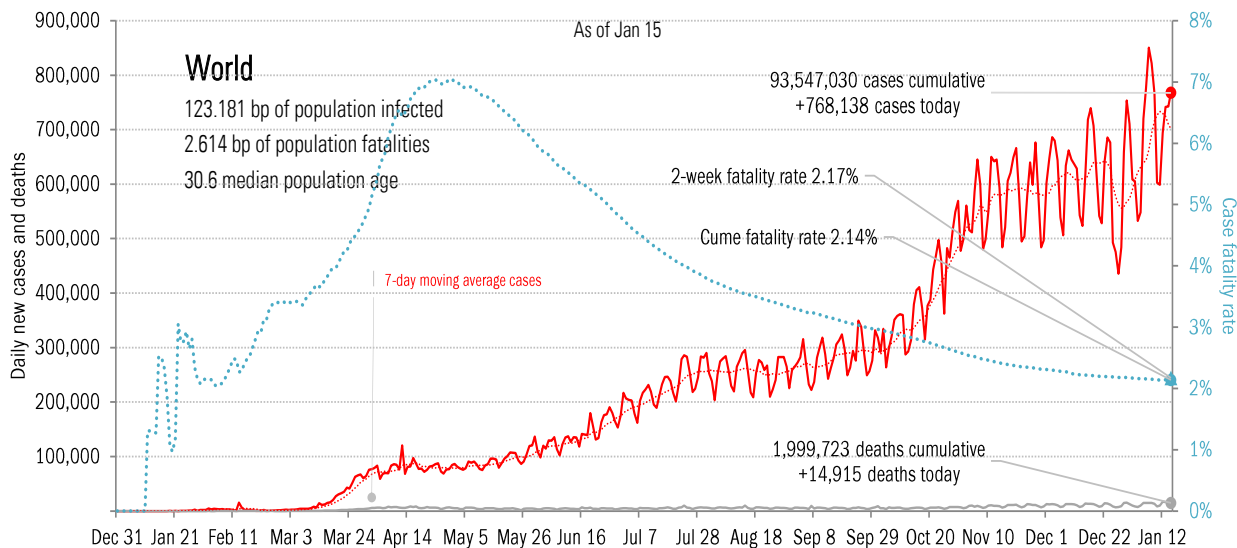
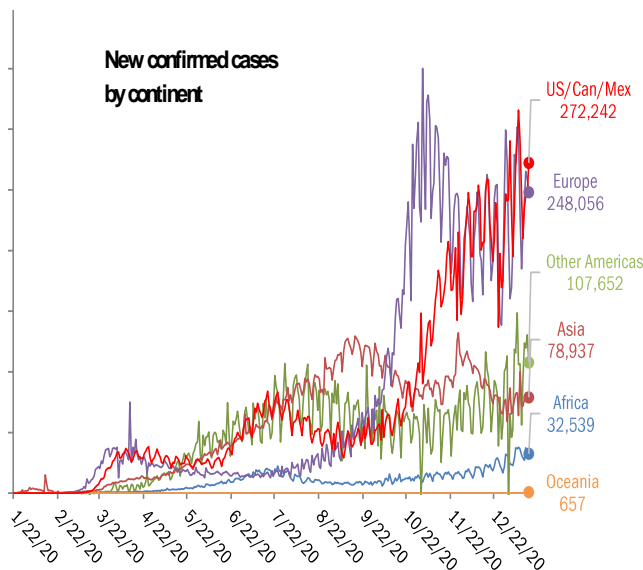


Data Insights: Covid-2019 Monitor

Saturday, January 16, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+243,996	United States	+3,679
Brazil	+69,198	United Kingdom	+1,285
United Kingdom	+55,885	Brazil	+1,151
Spain	+40,197	Mexico	+1,106
Russia	+24,294	France	+638
France	+21,673	South Africa	+615
Mexico	+21,366	Russia	+542
Colombia	+21,078	Germany	+498
Italy	+16,144	Italy	+477
Peru	+15,792	Poland	+388
+529,623		+10,379	
World	+768,138	World	+14,915
Top ten	69%	Top ten	70%



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

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

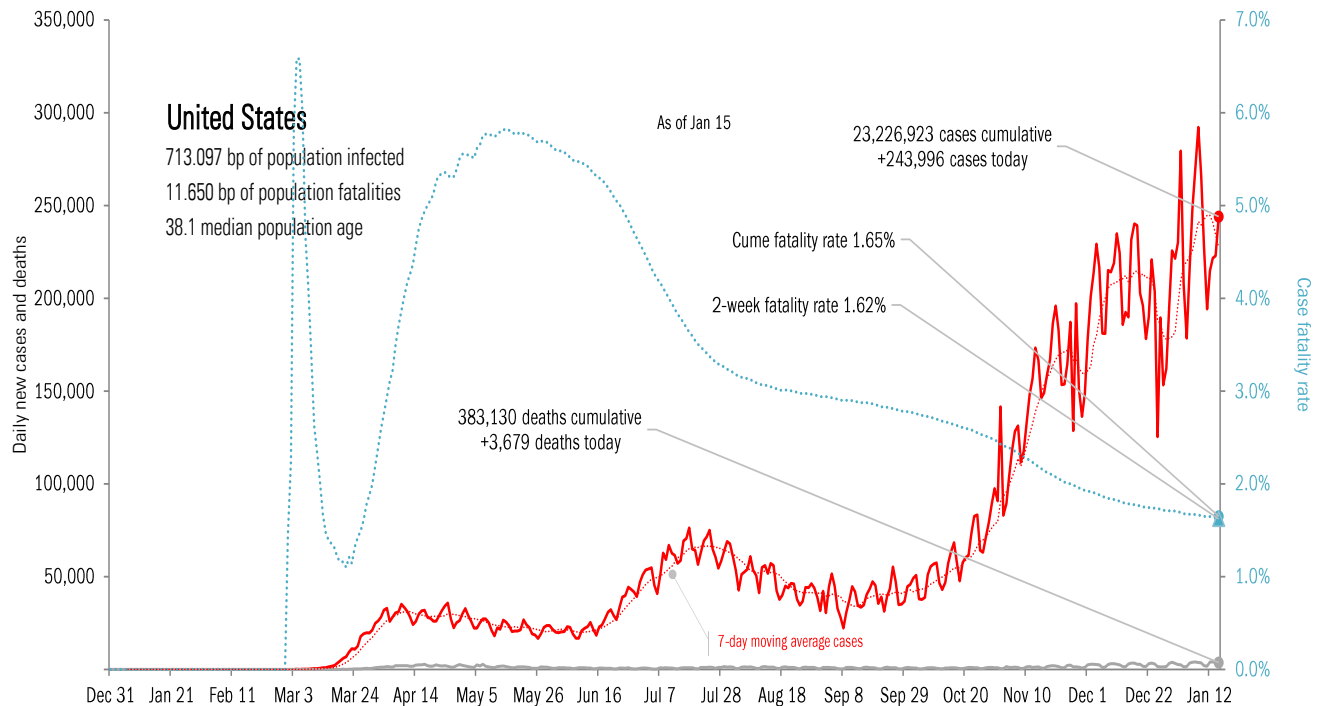
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
CA	+42,655		CA	+637		LA	+26		CA	2,859,624		NY	32,566		NY	89,995		RI	90%	AL	96%
TX	+27,204		TX	+400		WA	+22		TX	2,072,903		CA	32,291		FL	68,444		GA	89%	GA	94%
NY	+19,942		PA	+215		UT	+21		FL	1,519,944		TX	31,450		NJ	54,180		SC	88%	RI	91%
FL	+16,415		FL	+188		AR	+19		NY	1,203,550		FL	24,169		GA	46,208		MD	86%	OK	91%
AZ	+9,146		NY	+187		NE	+16		IL	1,059,324		NJ	20,320		AZ	45,665		DC	84%	CA	89%
NC	+8,914		AZ	+185		AL	+13		CH	814,442		IL	19,873		CH	42,807		FL	83%	NM	89%
GA	+7,348		GA	+163		ND	+10		PA	754,611		PA	18,957		AL	38,763		CA	81%	TN	89%
CH	+7,149		IL	+149		RI	+9		TN	676,039		MI	14,550		IN	38,056		PA	81%	TX	88%
IL	+6,642		KS	+147		MD	+5		GA	668,068		MA	13,509		MD	29,285		AZ	81%	MS	87%
NJ	+6,369		NC	+108		HI	+4		NC	659,840		GA	12,138		MN	23,185		MA	81%	SC	87%
+151,784			+2,379			+145			12,288,345			219,823			476,588						
All states	+243,996			+3,679			-1712		All states	23,226,923			383,130			750,650		All states	76%		80%
Top ten	62%			65%			-8%		Top ten	53%			57%			63%		Median	73%		78%

Some states not reporting

Five most improved US states

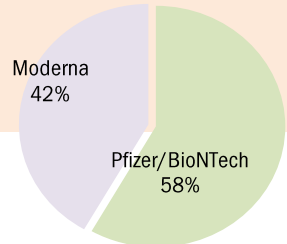
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
LA	-1,608	MI	-136	FL	-412	TX	+18,957
PA	-1,128	AL	-100	KS	-116	TN	+6,055
SC	-1,015	PA	-98	NC	-113	CH	+5,592
NC	-939	LA	-58	TN	-73	PA	+4,596
NJ	-723	VA	-44	MO	-72	OK	+3,398



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

Rolling out the vaccines in the US

US overall	
31.16 million doses distributed	+0.53 million/day
12.28 million doses administered	+1.13 million/day
10.60 million persons with one or more shot	+0.91 million/day
1.61 million persons with two or more shots	+0.27 million/day
1.38 million shots in long-term care	+0.16 million/day
39.4% of distributed doses administered	
3.7% of US population vaccinated	
3.2% of US population one shot	
0.5% of US population two shots	



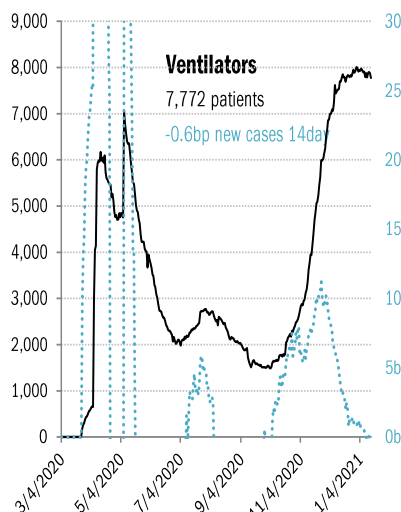
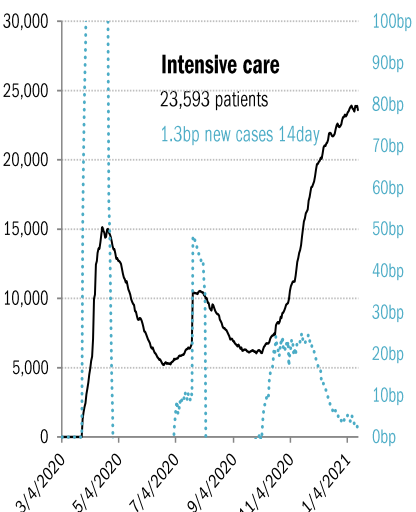
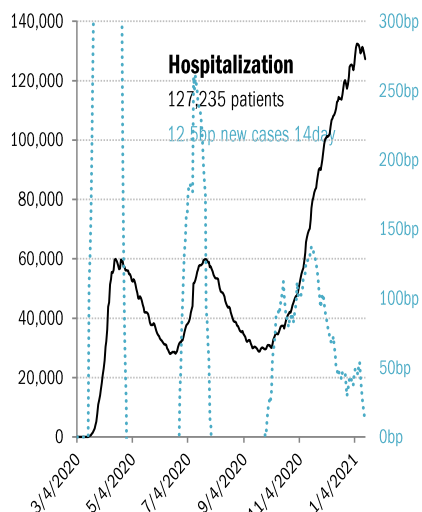
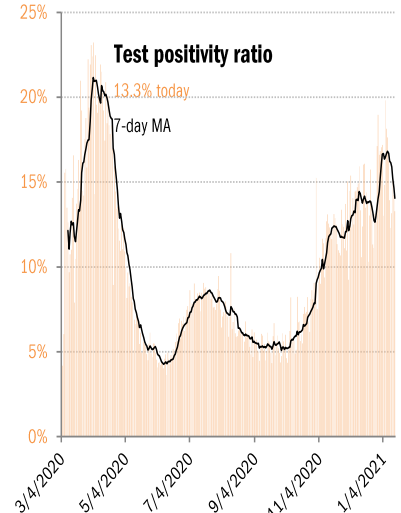
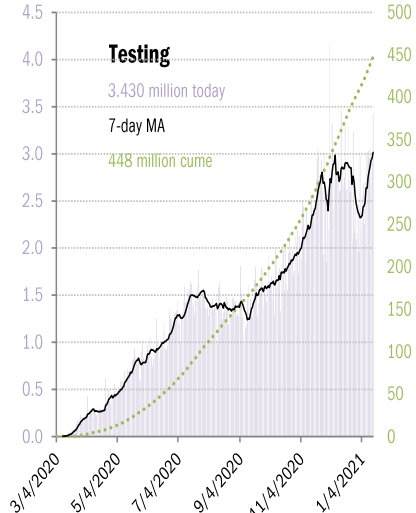
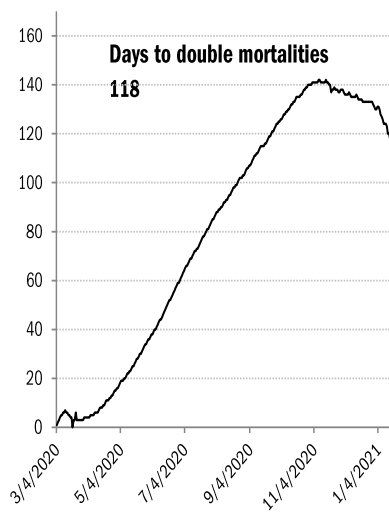
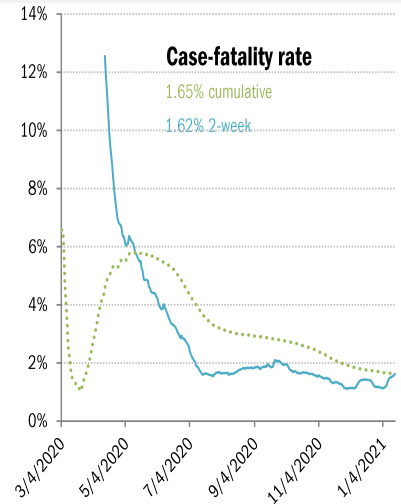
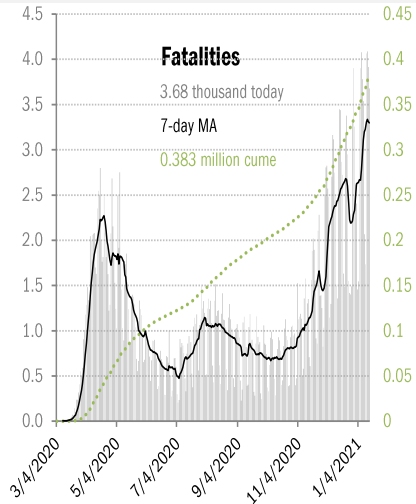
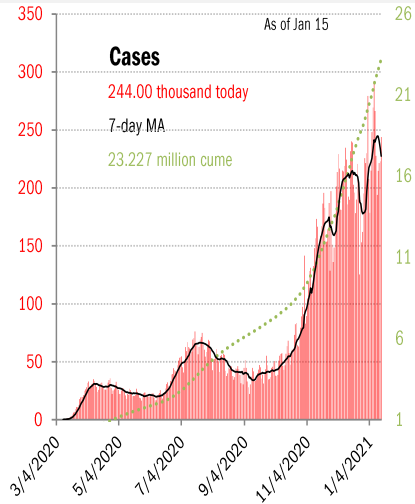
State	Doses distributed as % population	One dose received as % population	Doses administered as % distributed	Category
AK	20.6%	5.4%	32.6%	Best Middle Worst
ME	10.2%	3.8%	44.7%	
VT	11.9%	4.5%	43.9%	
WI	7.5%	2.6%	38.8%	
NY	9.7%	3.5%	40.2%	
MA	9.7%	3.2%	38.4%	
NH	9.4%	4.2%	49.1%	
WA	9.1%	2.6%	34.9%	
ID	9.0%	2.1%	29.1%	
MT	9.2%	3.9%	50.1%	
ND	9.0%	5.1%	67.6%	
MN	9.2%	3.0%	38.2%	
IL	8.0%	2.7%	43.3%	
MI	7.7%	3.1%	47.1%	
OR	7.9%	3.2%	43.6%	
NV	6.9%	2.2%	39.5%	
WY	10.2%	3.4%	38.7%	
SD	10.6%	5.4%	61.0%	
IA	8.5%	3.4%	45.0%	
IN	9.5%	3.3%	40.5%	
OH	8.3%	3.1%	38.8%	
PA	8.4%	3.0%	41.7%	
NJ	7.4%	3.1%	48.1%	
CT	9.2%	4.7%	56.5%	
RI	10.2%	3.7%	43.8%	
CA	9.0%	2.2%	30.2%	
UT	8.4%	3.6%	47.8%	
CO	9.2%	3.9%	51.2%	
NE	10.9%	4.0%	43.1%	
MO	8.6%	2.5%	36.0%	
KY	7.6%	3.6%	51.8%	
WV	11.5%	6.3%	65.3%	
VA	10.0%	2.5%	28.6%	
MD	9.3%	3.0%	34.5%	
DE	9.4%	2.6%	34.1%	
AZ	7.9%	2.4%	34.5%	
NM	9.8%	3.8%	48.5%	
KS	9.0%	2.9%	37.1%	
AR	9.9%	3.2%	39.7%	
TN	9.6%	3.9%	46.1%	
NC	9.5%	2.5%	30.3%	
SC	6.8%	2.0%	34.8%	
DC	9.7%	4.5%	58.4%	
OK	10.7%	4.4%	48.0%	
LA	8.0%	3.6%	53.5%	
MS	7.8%	2.6%	36.1%	
AL	9.1%	1.8%	22.6%	
GA	9.5%	1.9%	22.9%	
HI	10.9%	2.8%	30.5%	
TX	7.3%	3.5%	55.1%	
FL	9.6%	3.6%	41.2%	
PR	9.7%	2.7%	33.5%	

As of Jan 15

Source: [CDC](#), TrendMacro calculations

US deep-dive

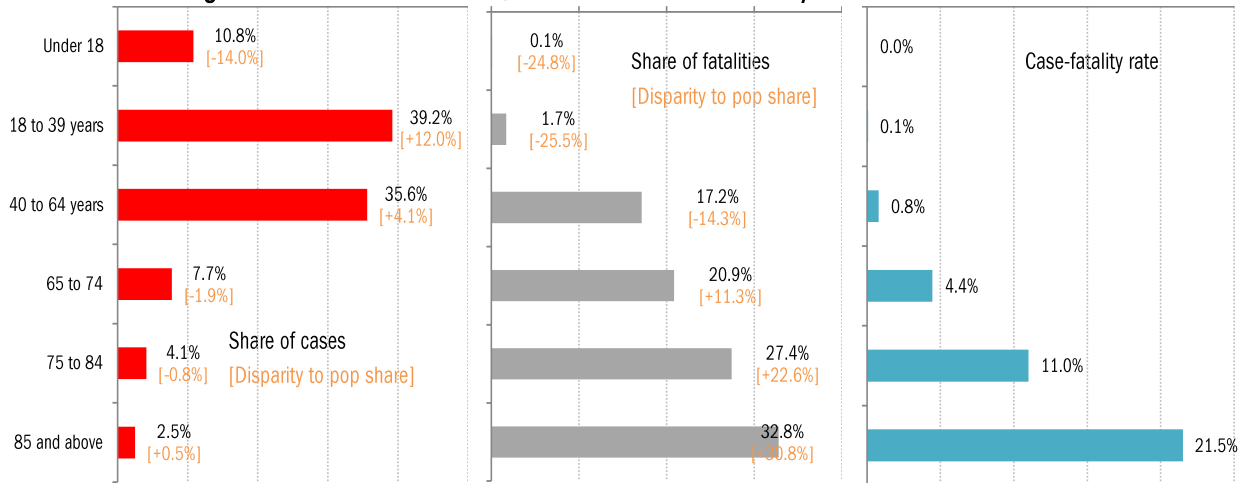
National and state-by-state data do not line up because of different sources



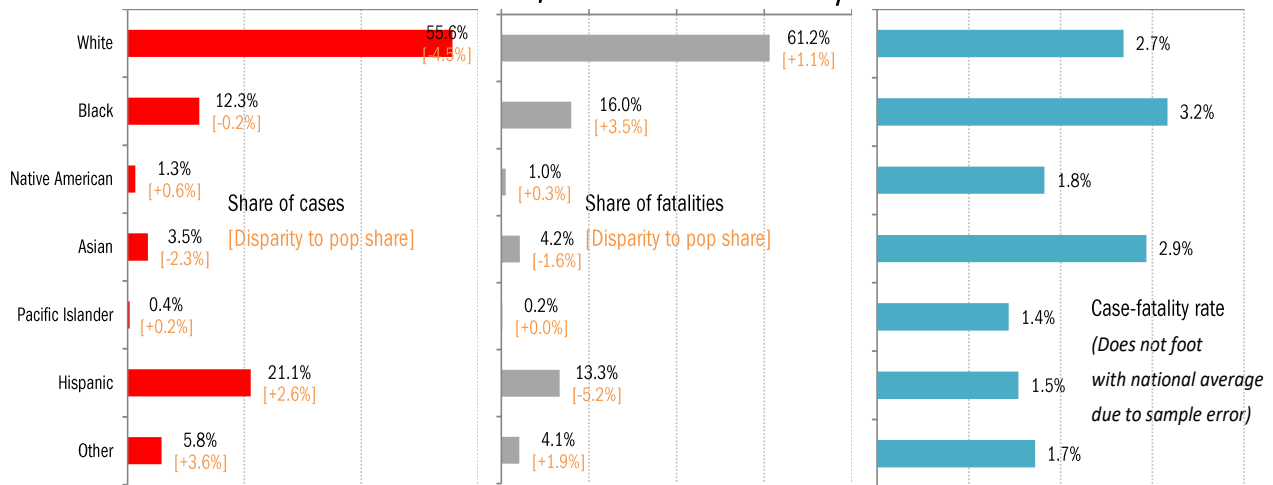
Source: [Covid Tracking Project](#), TrendMacro calculations

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

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

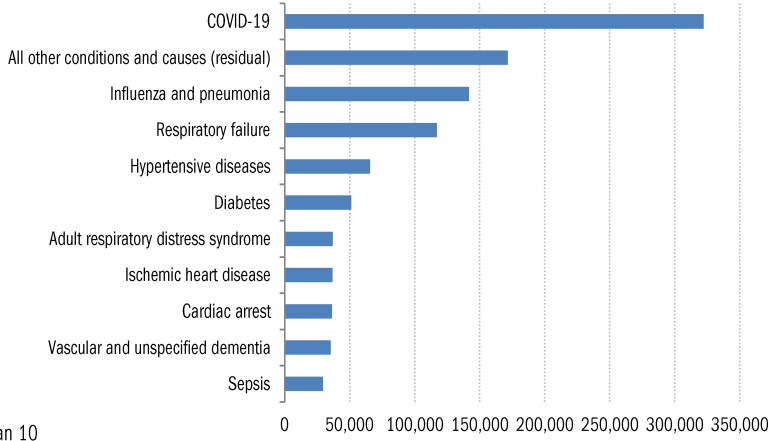


Racial distribution of US cases, fatalities and case-fatality rates



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

[Pompeo: US 'has reason to believe' Wuhan lab staff caught COVID-19 months before pandemic](#)

Joel Gehrke
Washington Examiner
January 15, 2021

[Defiance of virus dining bans grows as restaurants flounder](#)

Gillian Flaccus
Associated Press
January 13, 2021

[The 'Common Carrier' Solution to Social-Media Censorship](#)

Tunku Varadarajan
Wall Street Journal
January 15, 2021

[The simple reason West Virginia leads the nation in vaccinating nursing home residents](#)

Tinglong Dai
The Conversation
January 14, 2021

[Covid-19 cinema: "Locked Down"](#)

The Economist
January 16, 2021

[Assessing Mandatory Stay-at-Home and Business Closure Effects on the Spread of COVID-19](#)

Eran Bendavid et al.
European Journal of Clinical Investigation
January 5, 2021

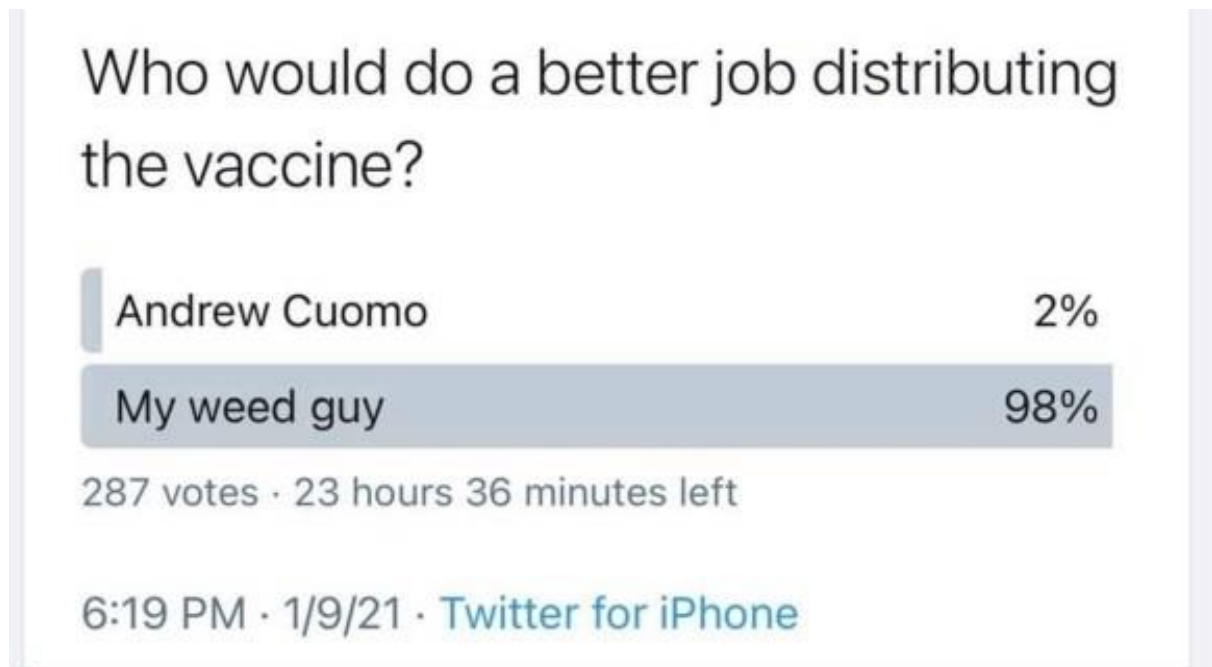
[Interim Results of a Phase 1–2a Trial of Ad26.COV2.S Covid-19 Vaccine](#)

Jerald Sadoff et al.
Journal of the American Medical Association
January 13, 2021

[COVID Lockdowns Have No Clear Benefit vs Other Voluntary Measures, International Study Shows](#)

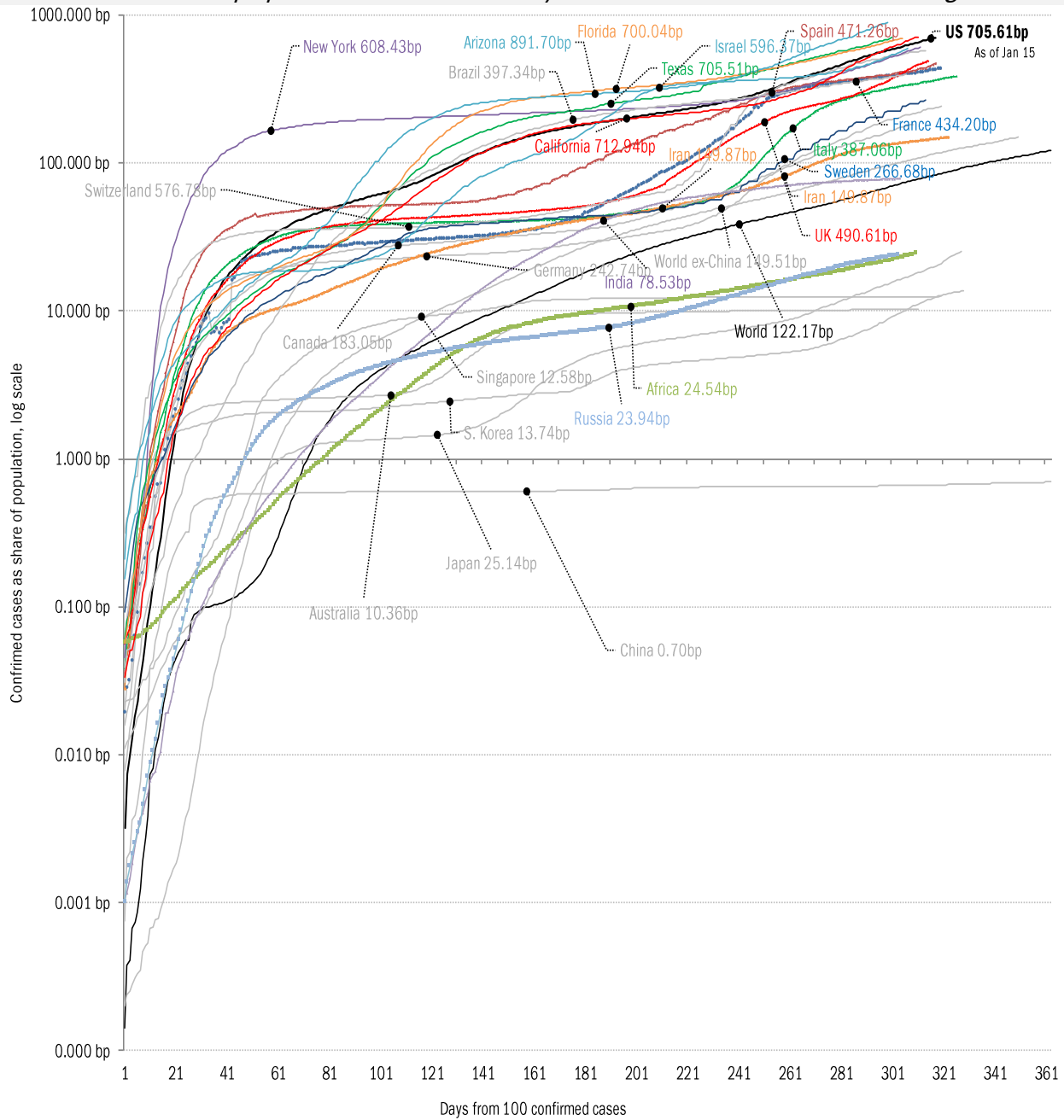
Natalie Colarossi
Newsweek
January 14, 2021

Meme of day



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

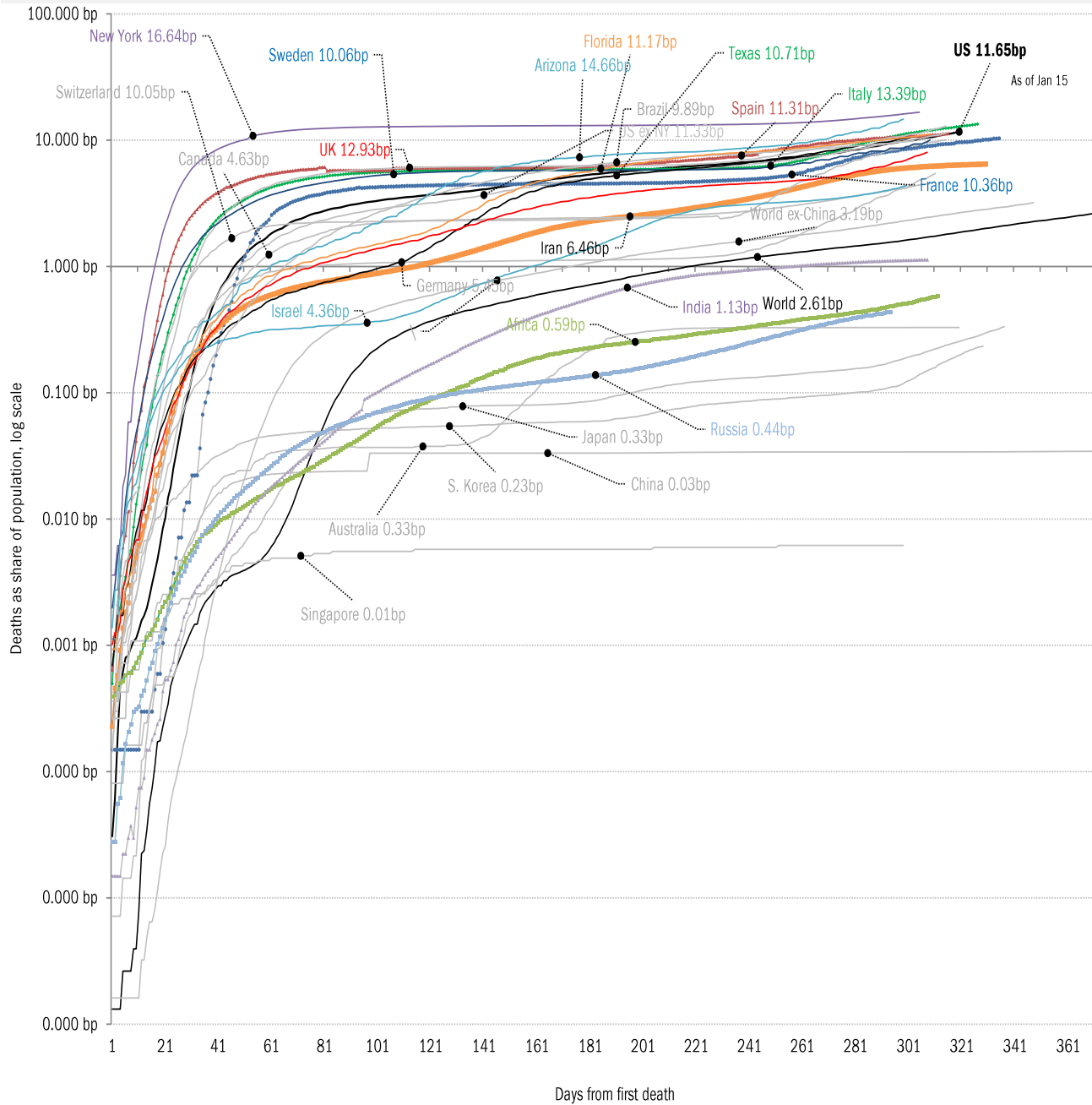
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

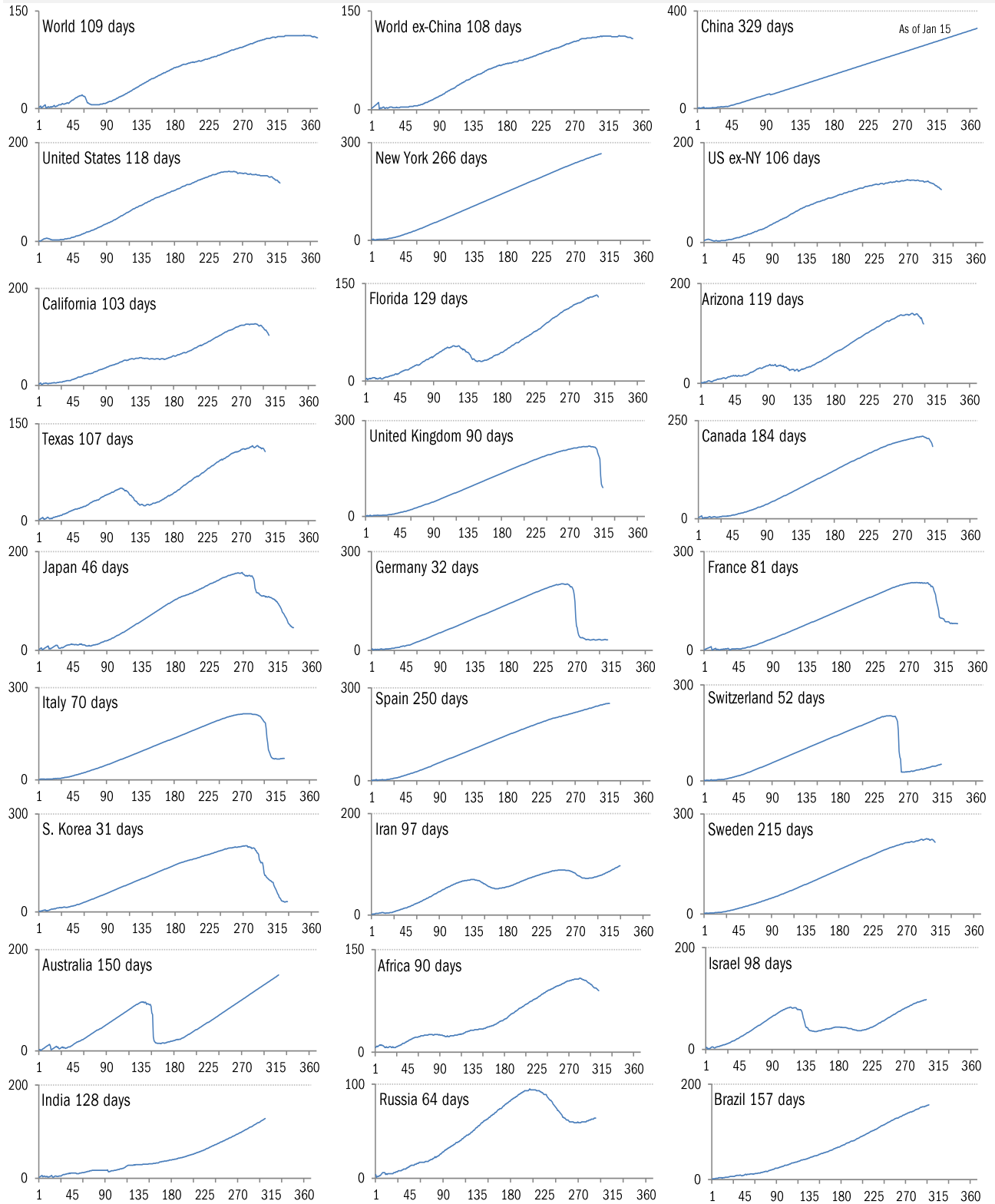


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

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

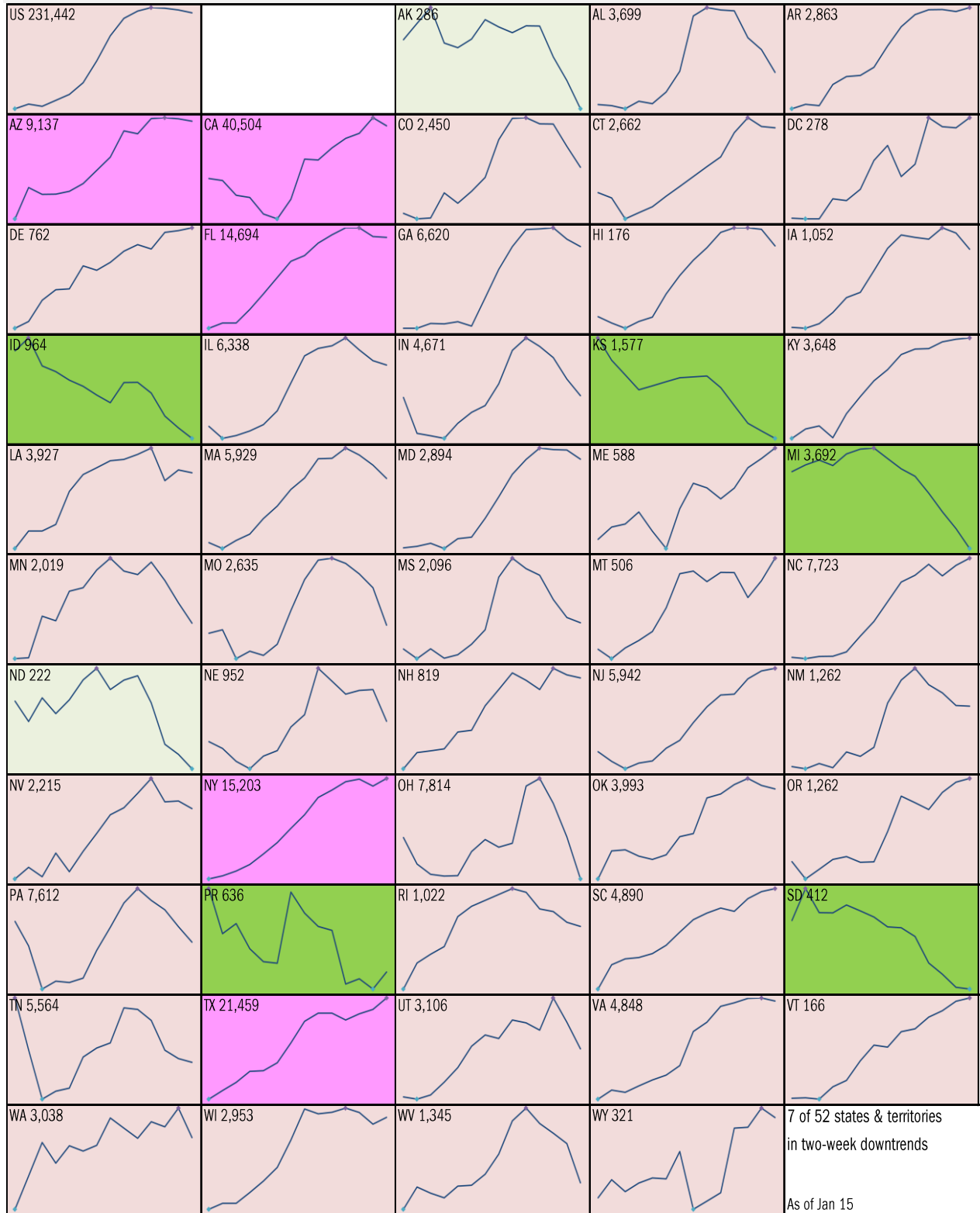
Vertical: days to double deaths Horizontal: days from first death

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

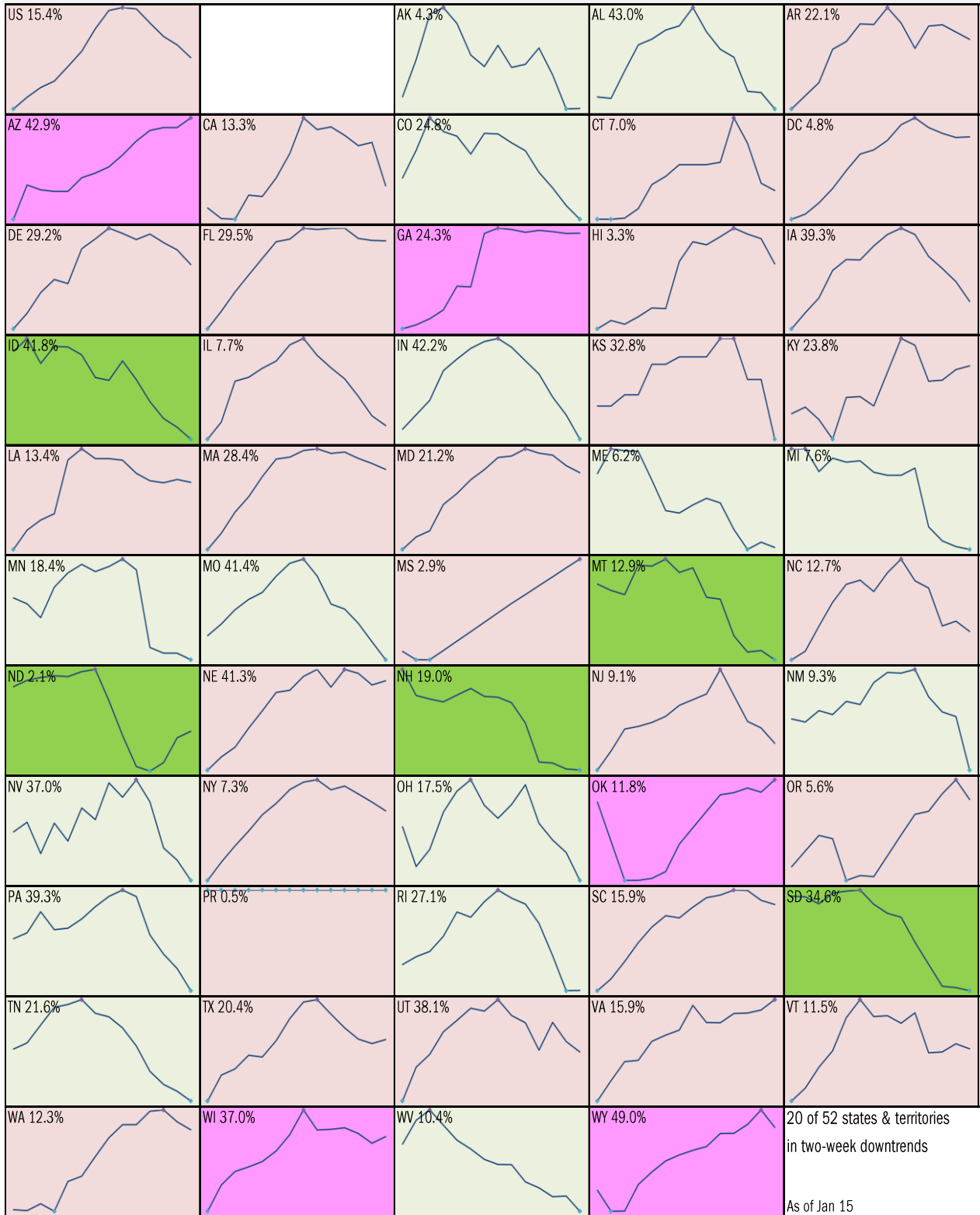


Source: [Covid Tracking Project](#), TrendMacro calculations

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



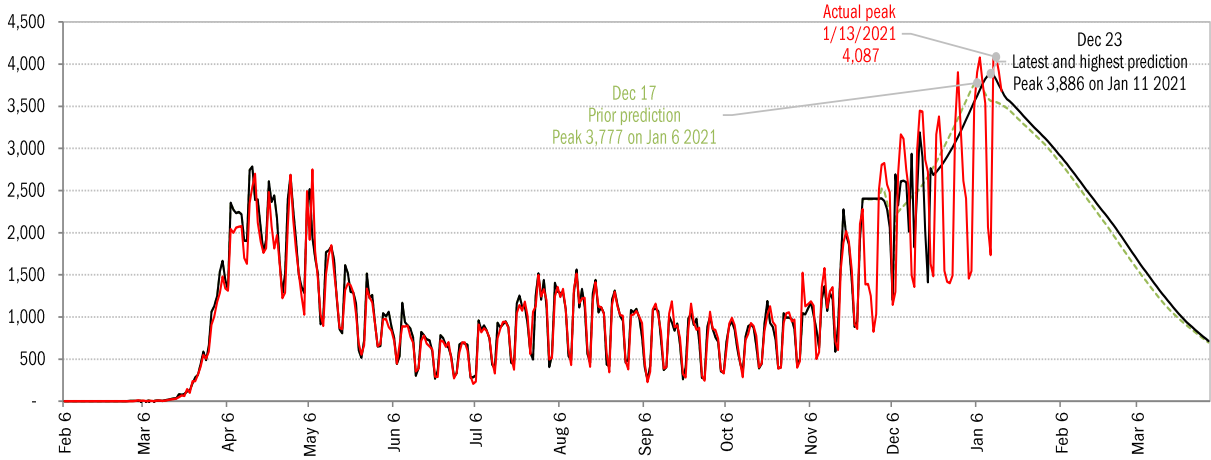
Source: [Covid Tracking Project](#), TrendMacro calculations

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

New daily fatalities

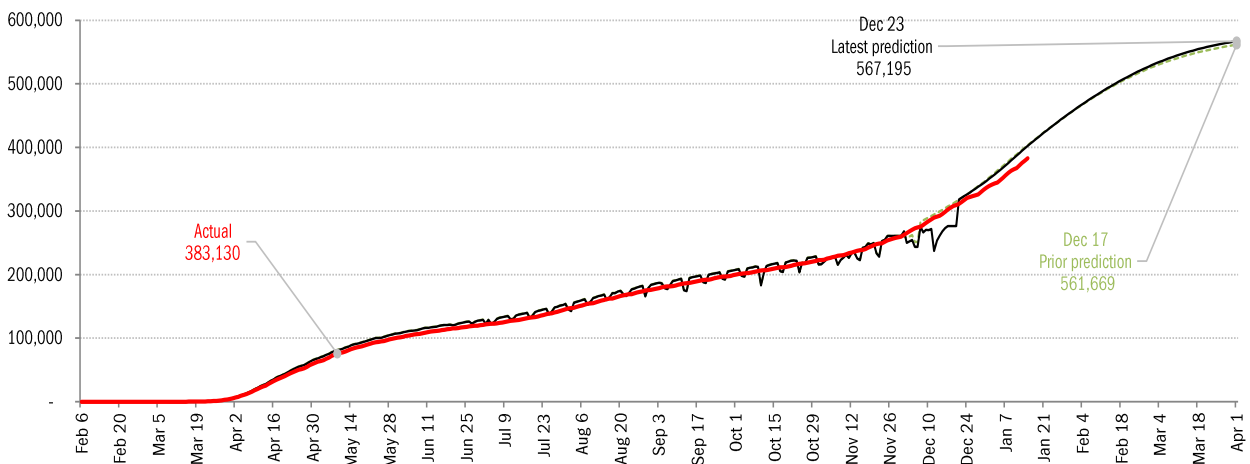
As of Jan 15

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

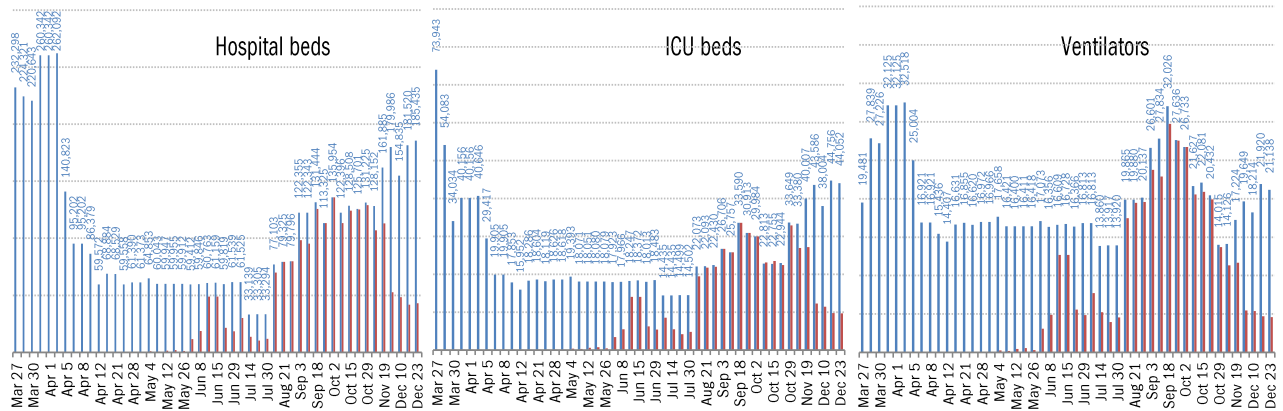


Cumulative fatalities

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

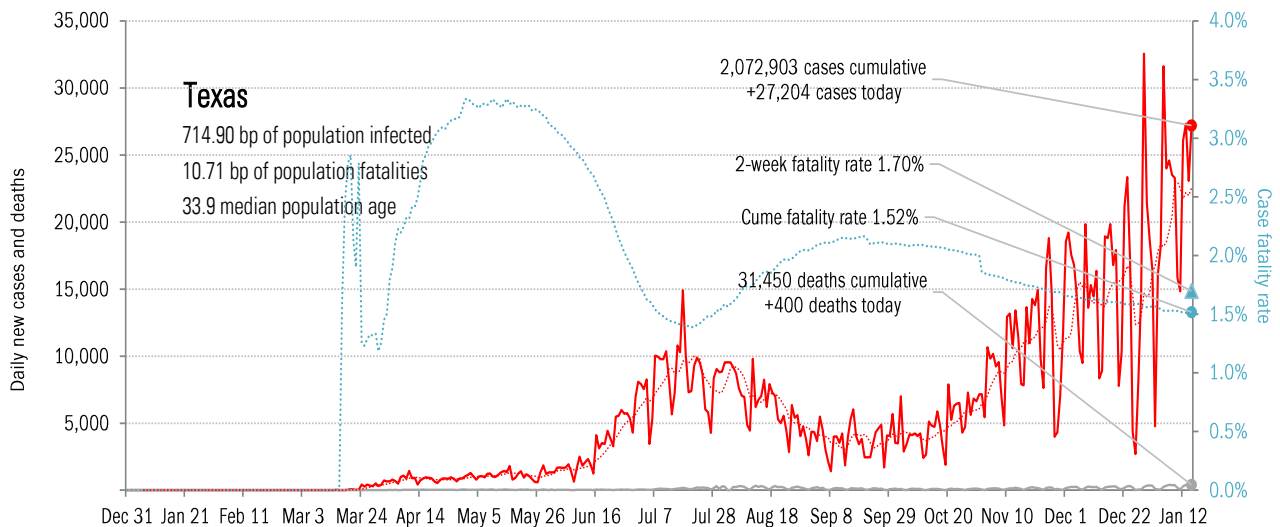
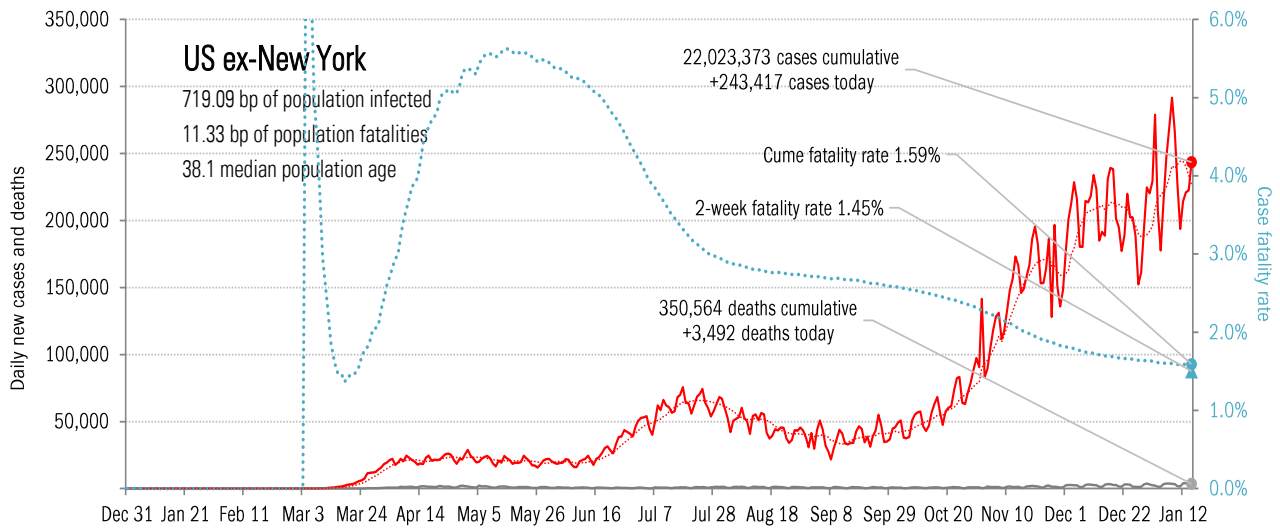
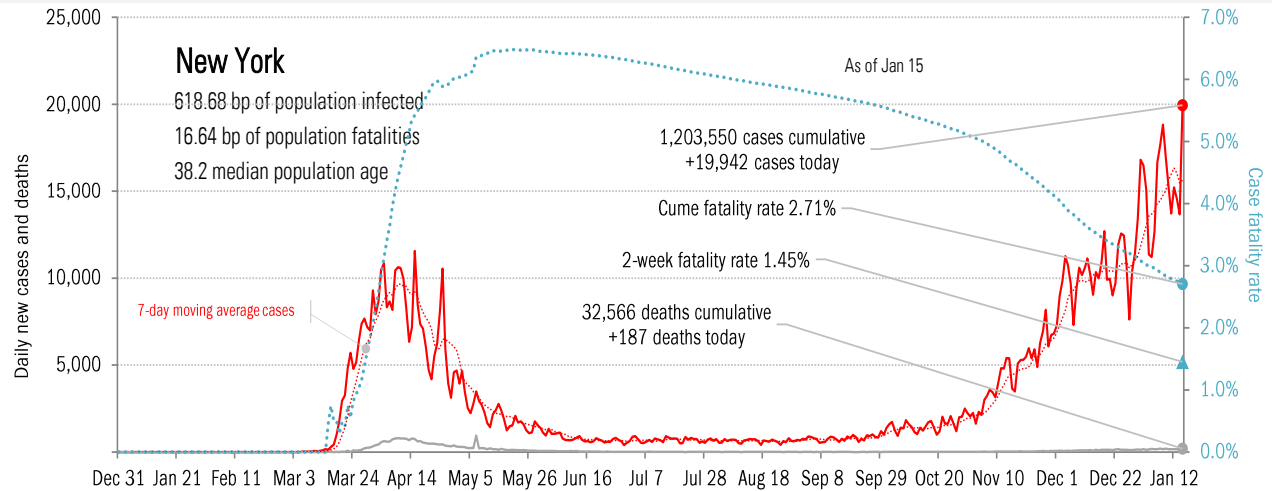


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



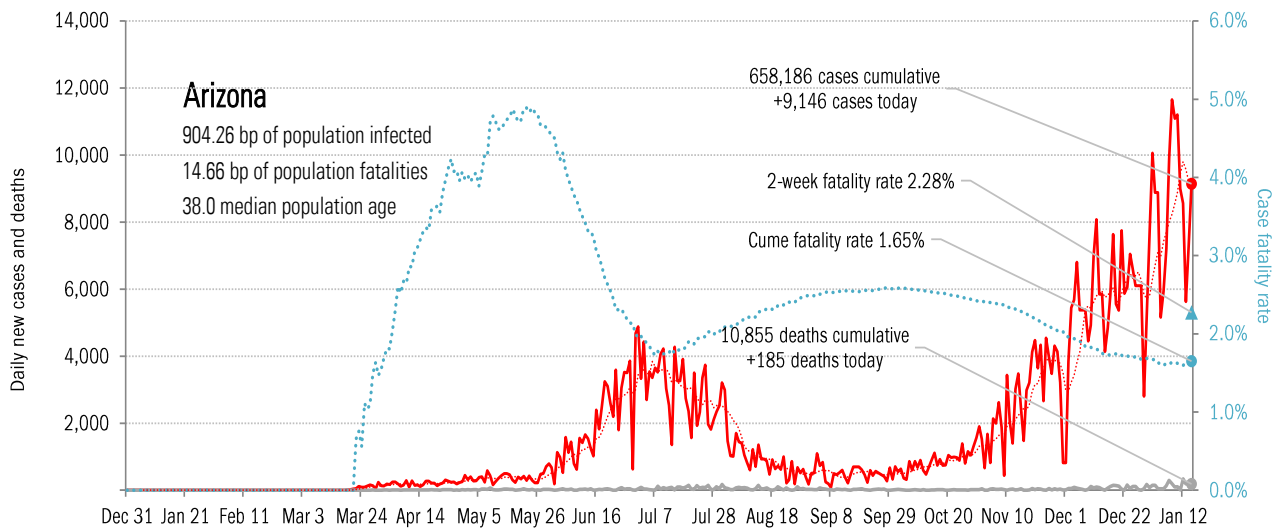
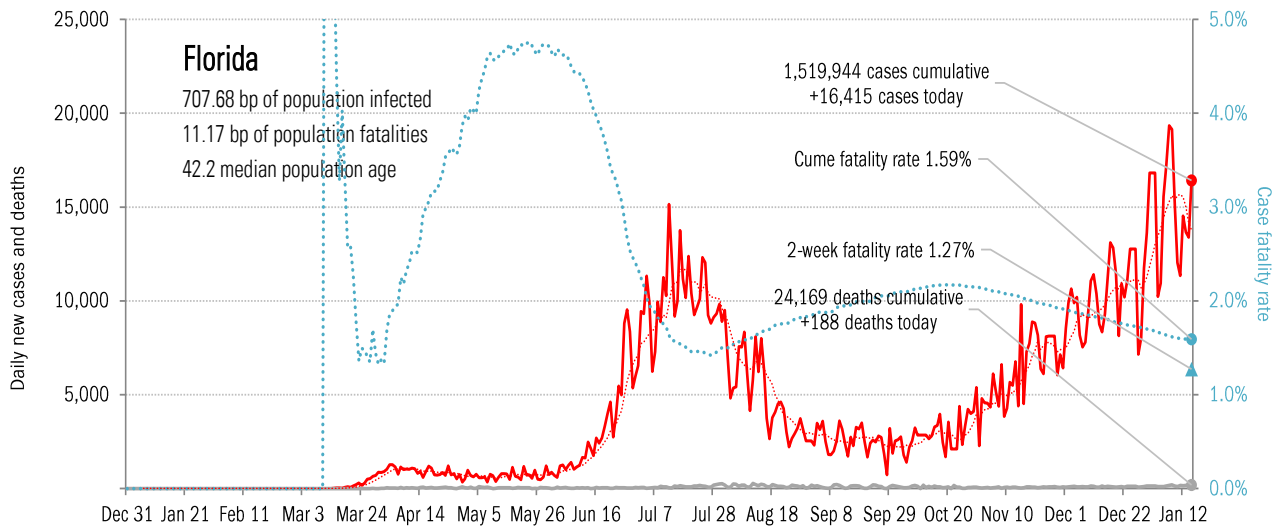
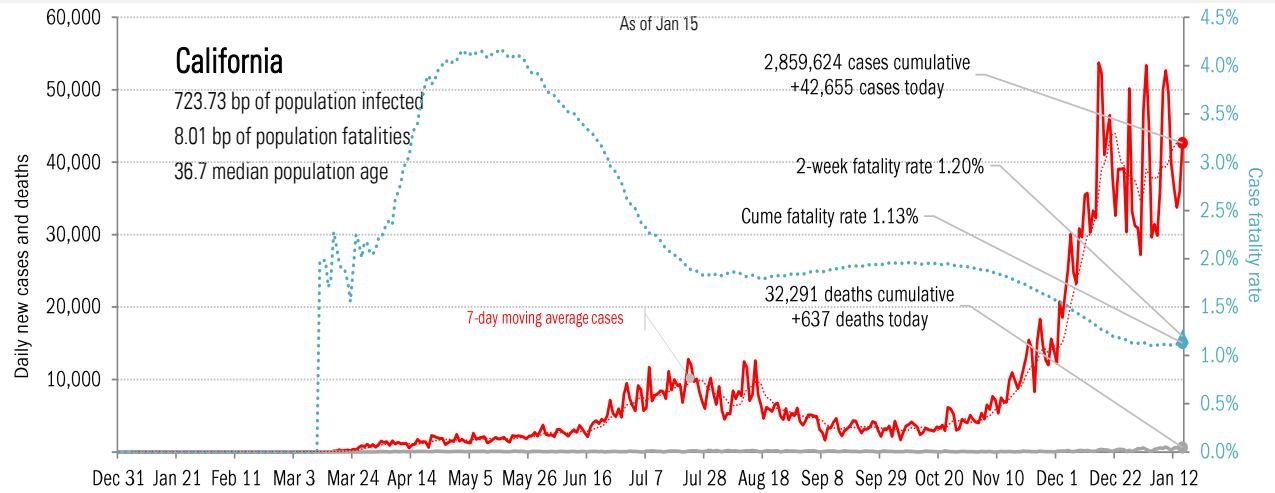
Source: [IHME](#), [Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



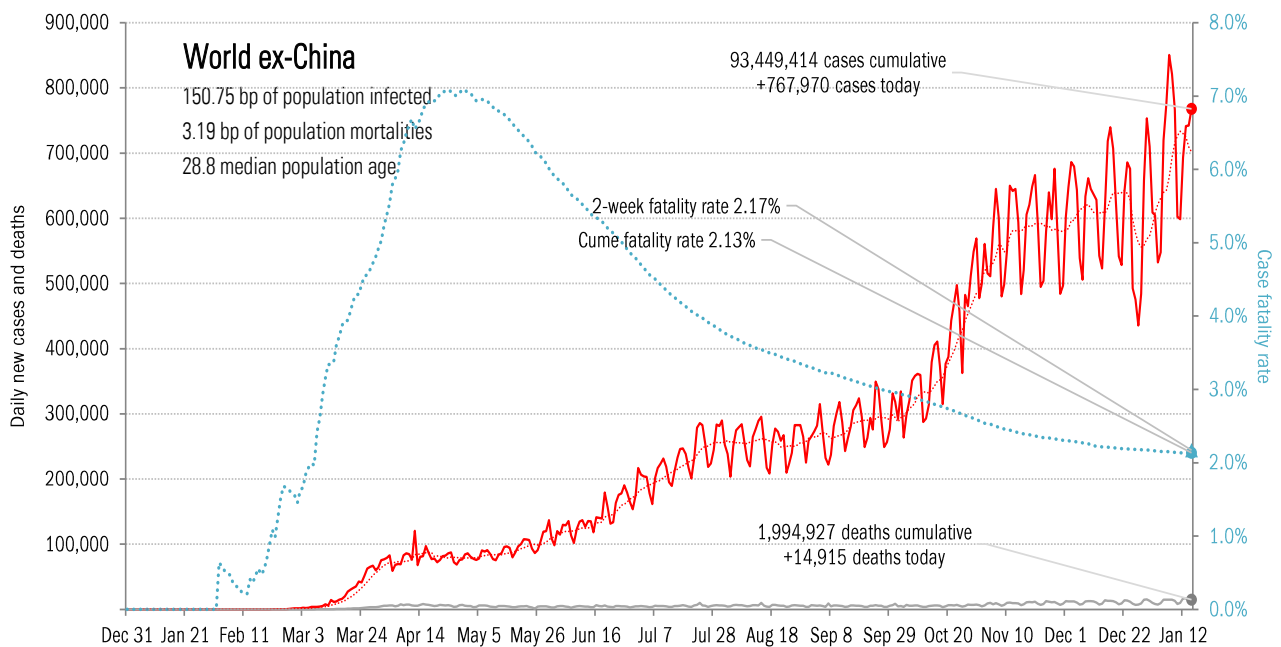
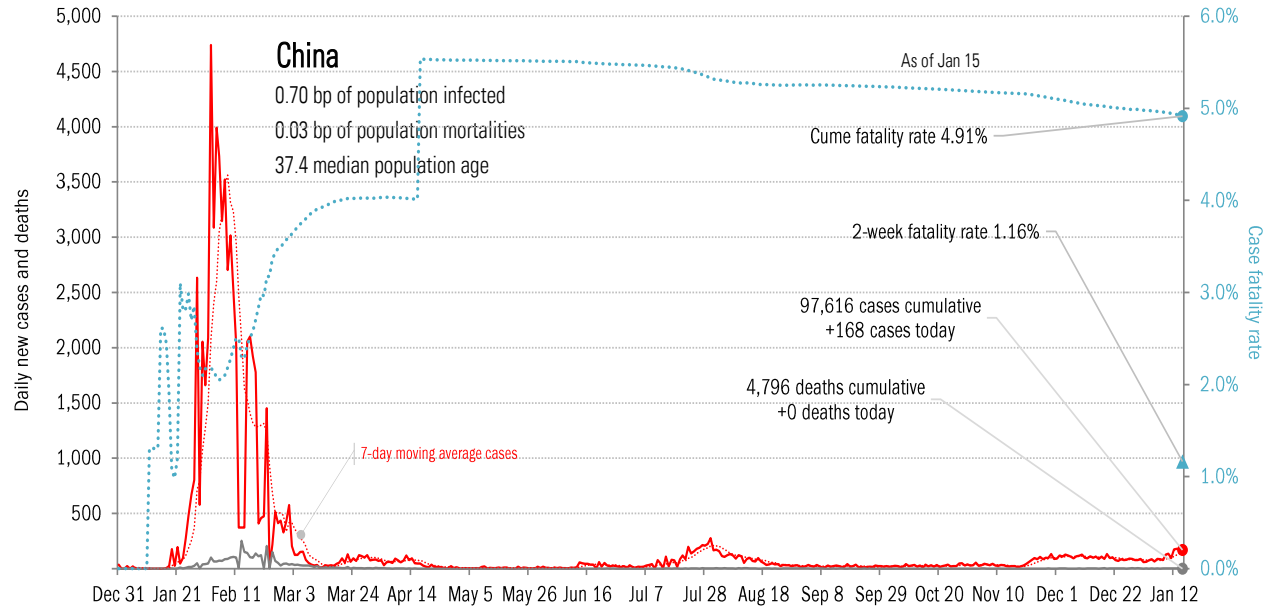
Source: [Covid Tracking Project](#), TrendMacro calculations

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



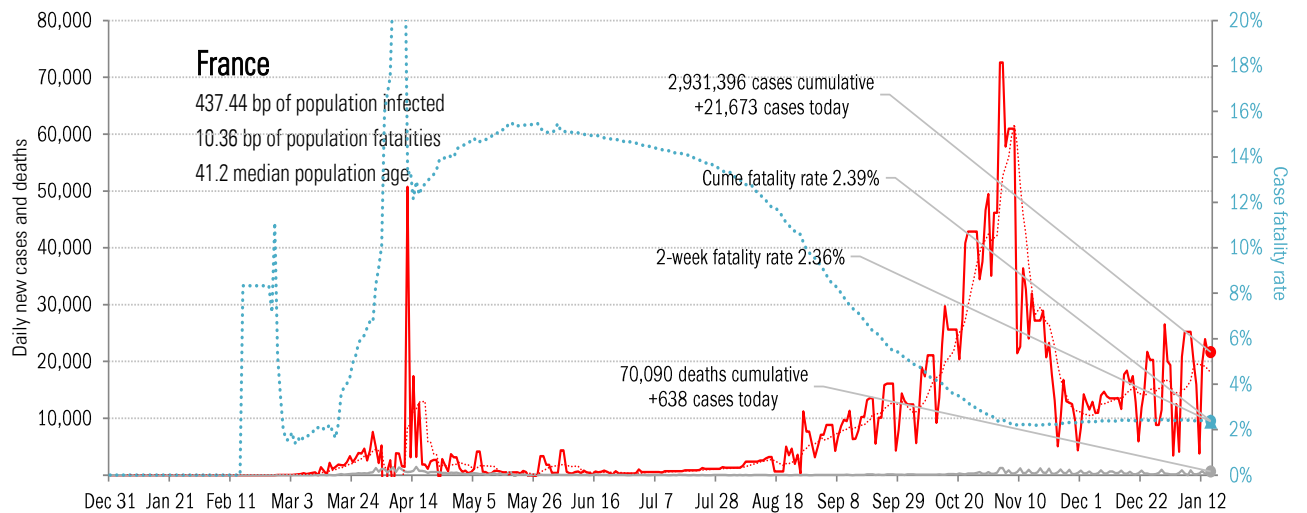
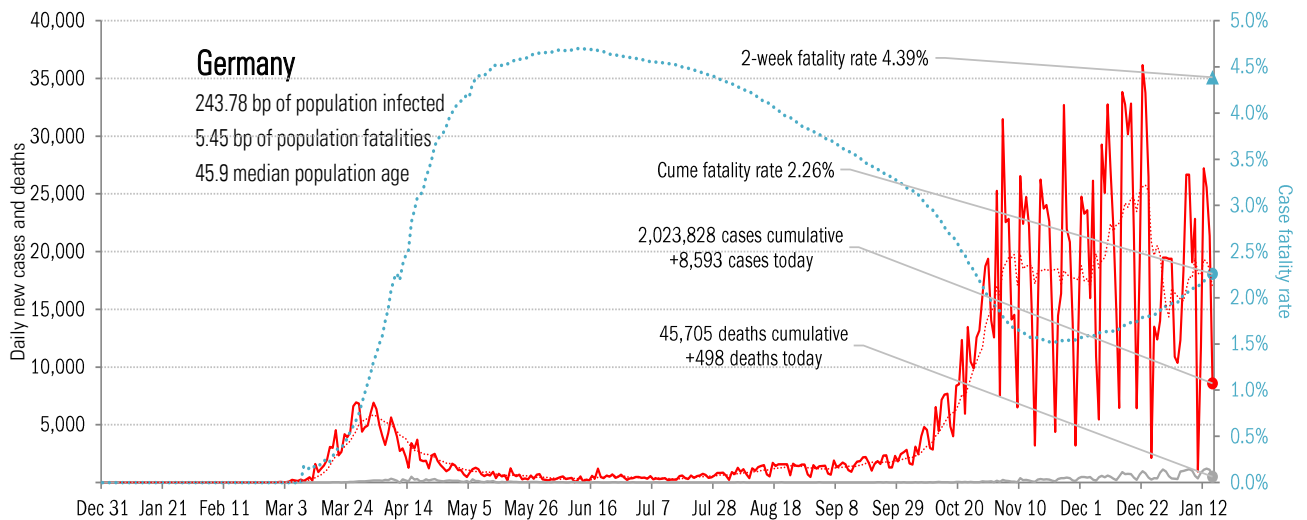
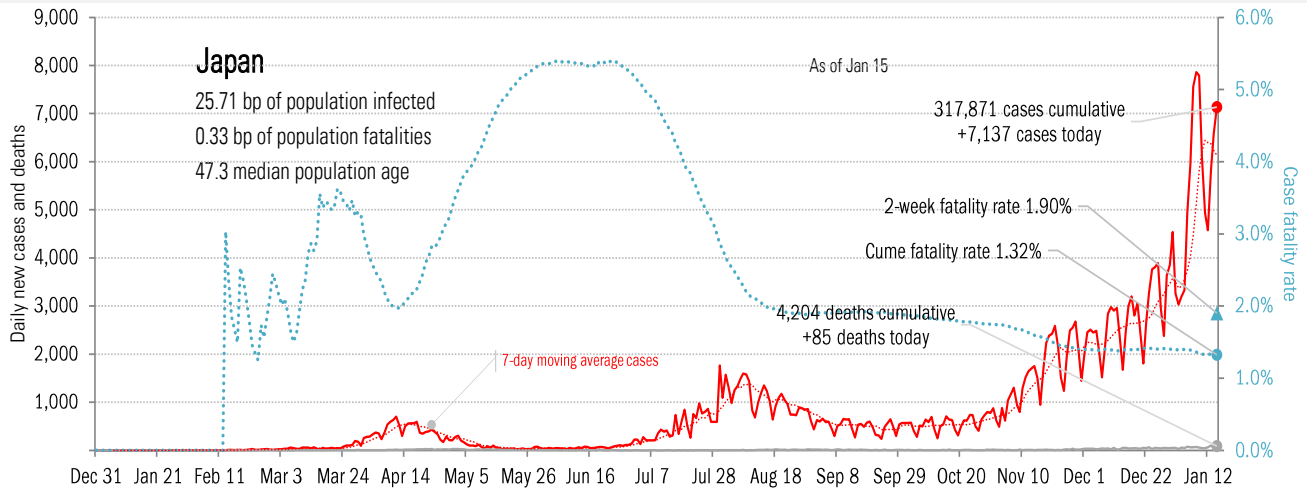
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



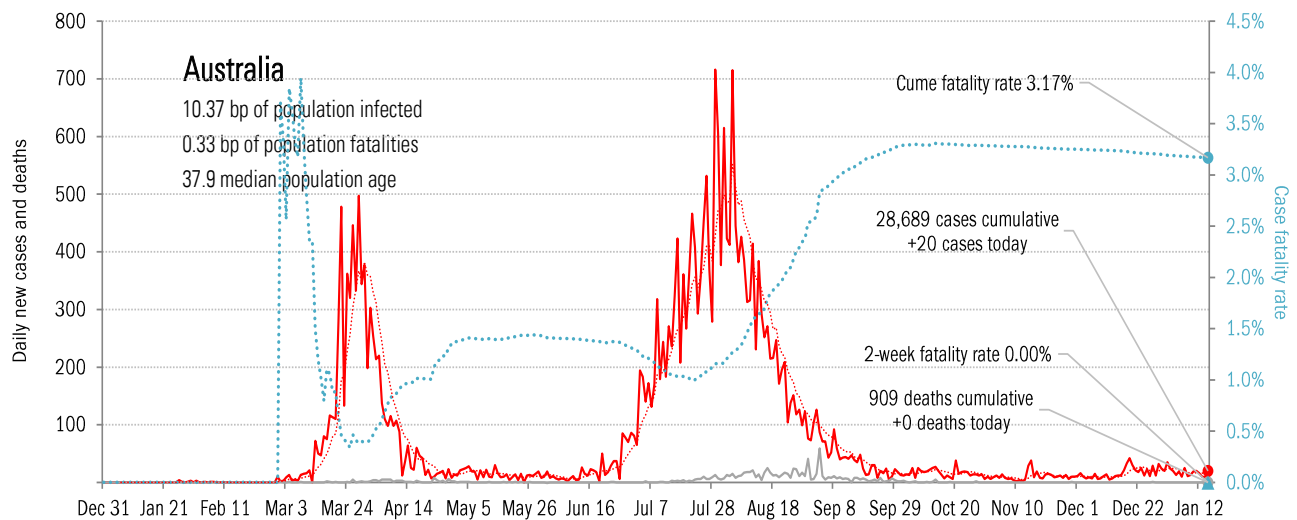
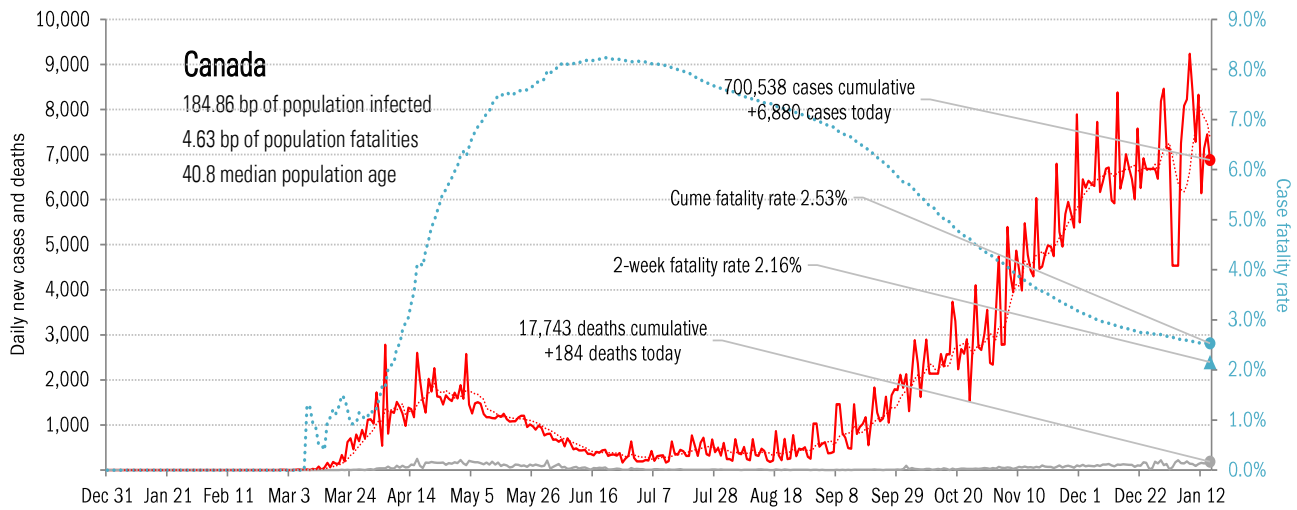
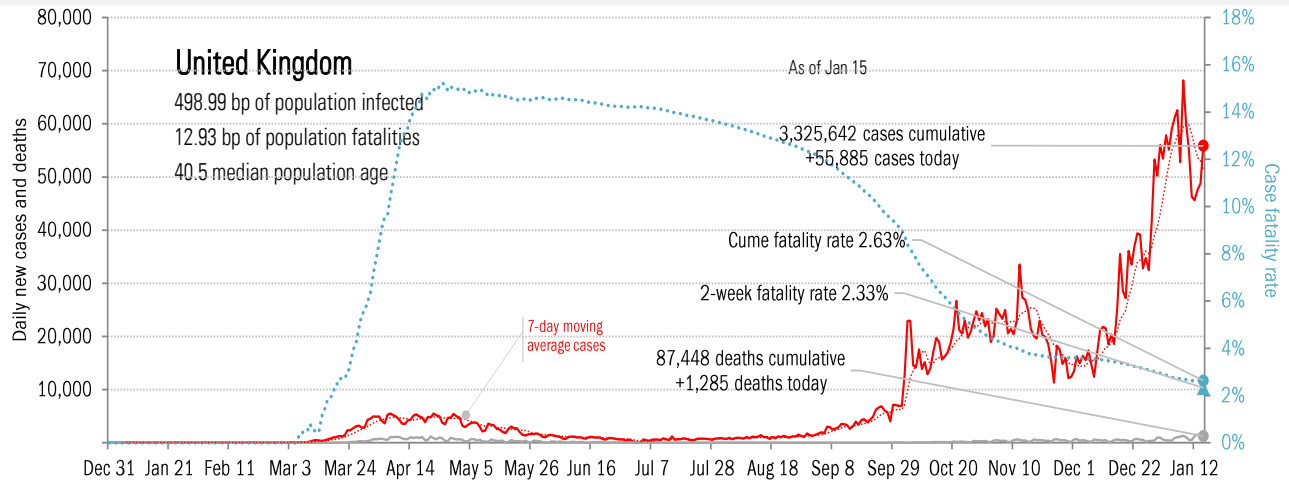
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



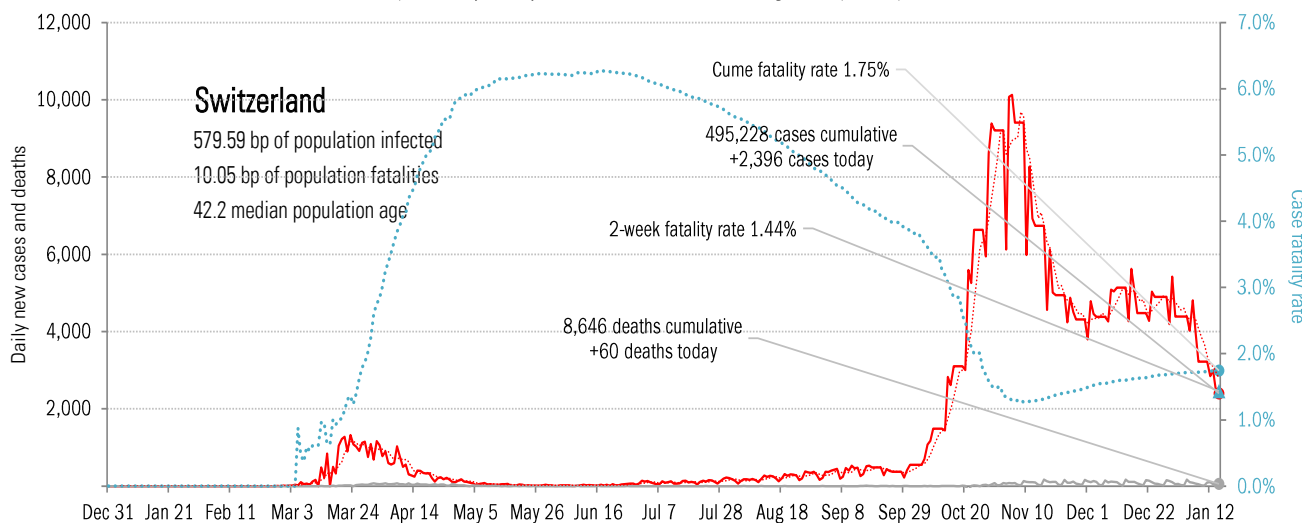
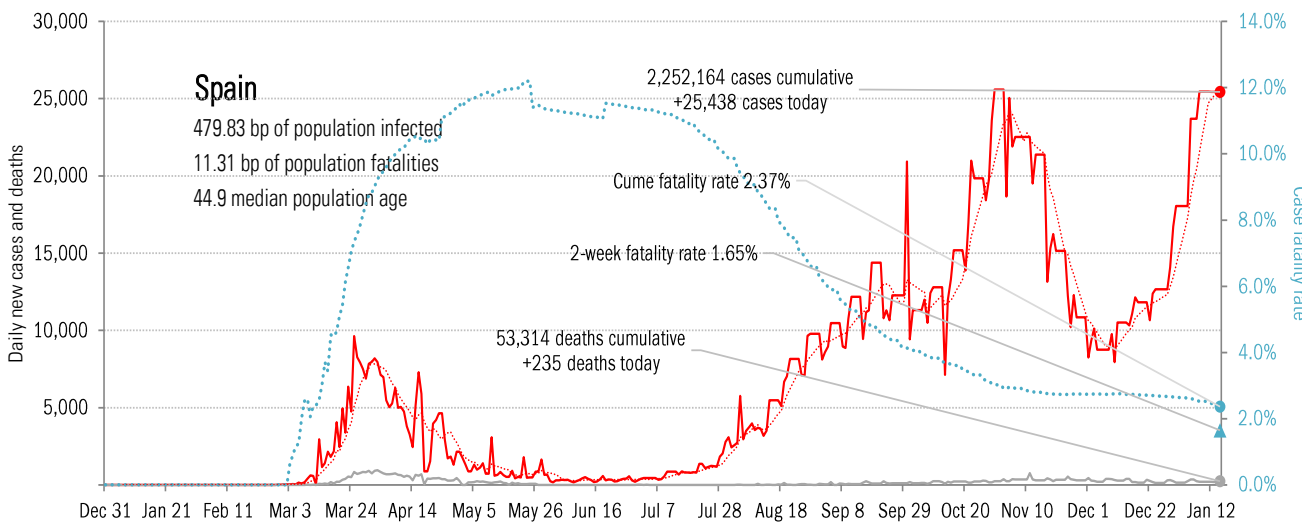
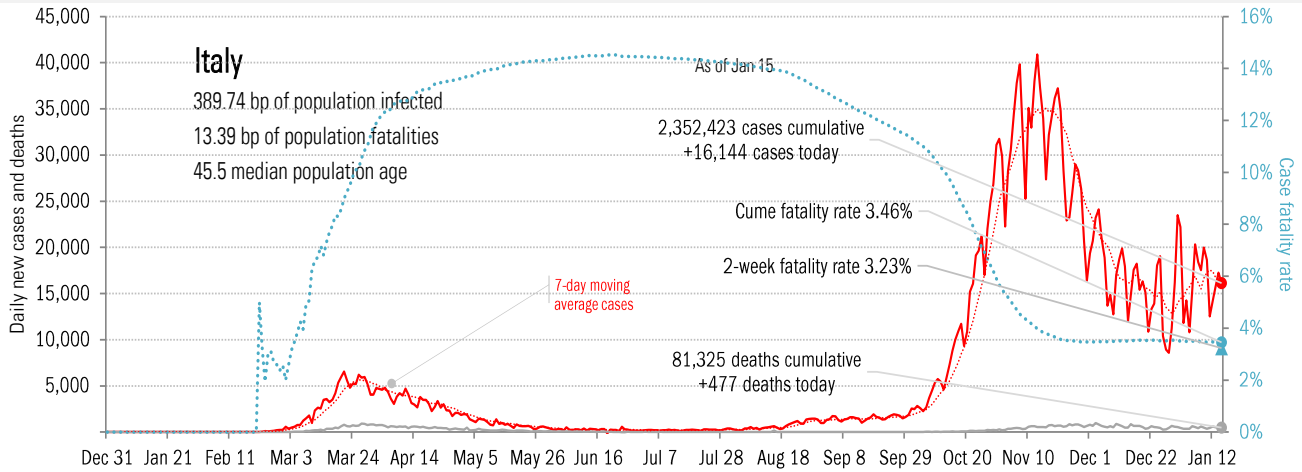
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



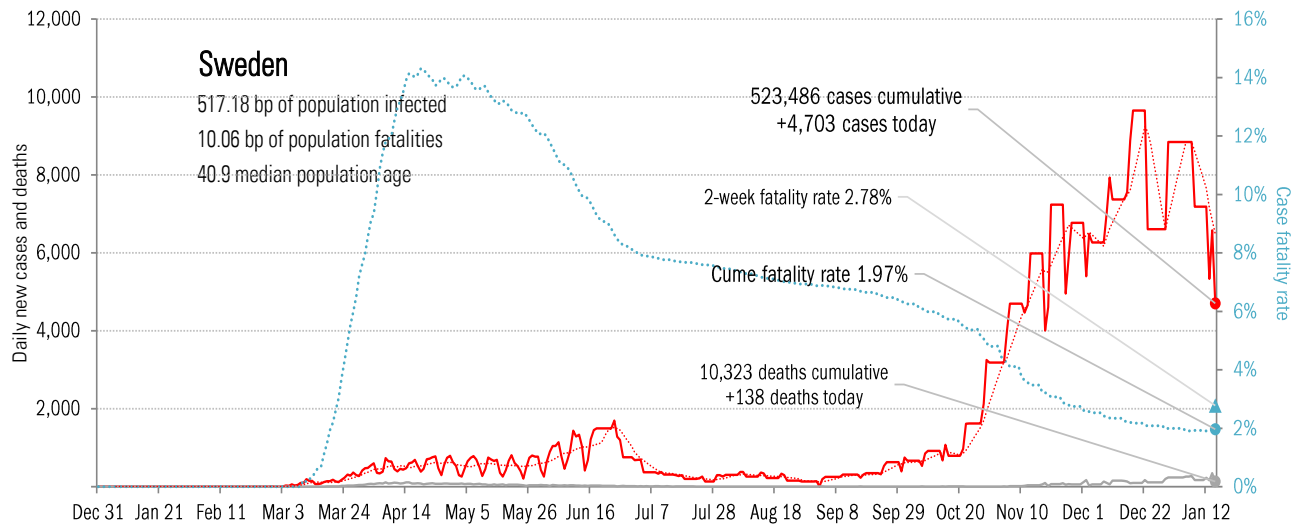
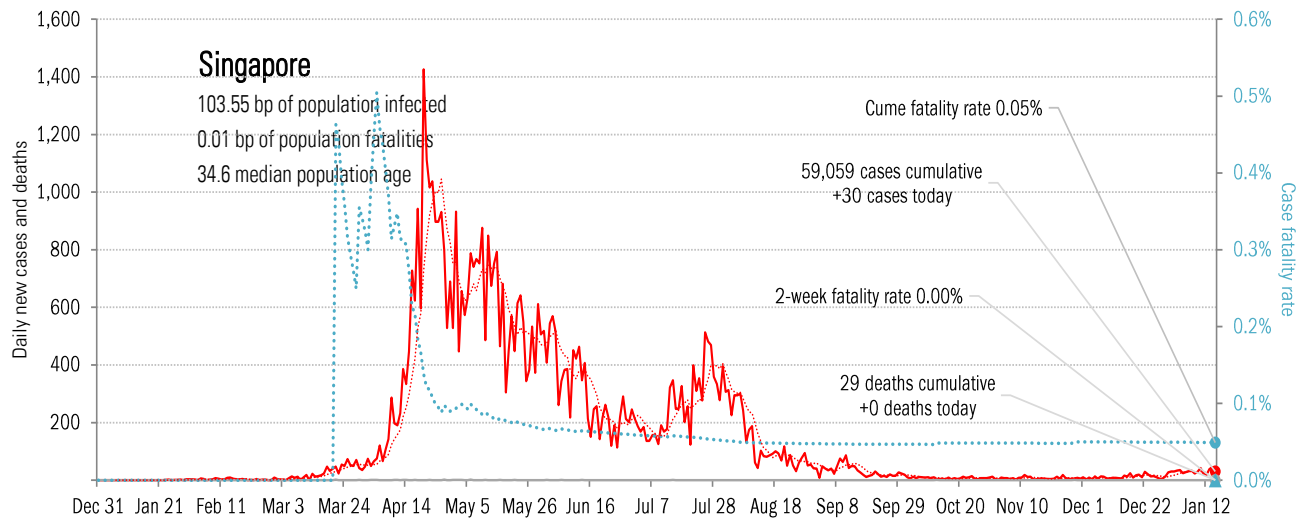
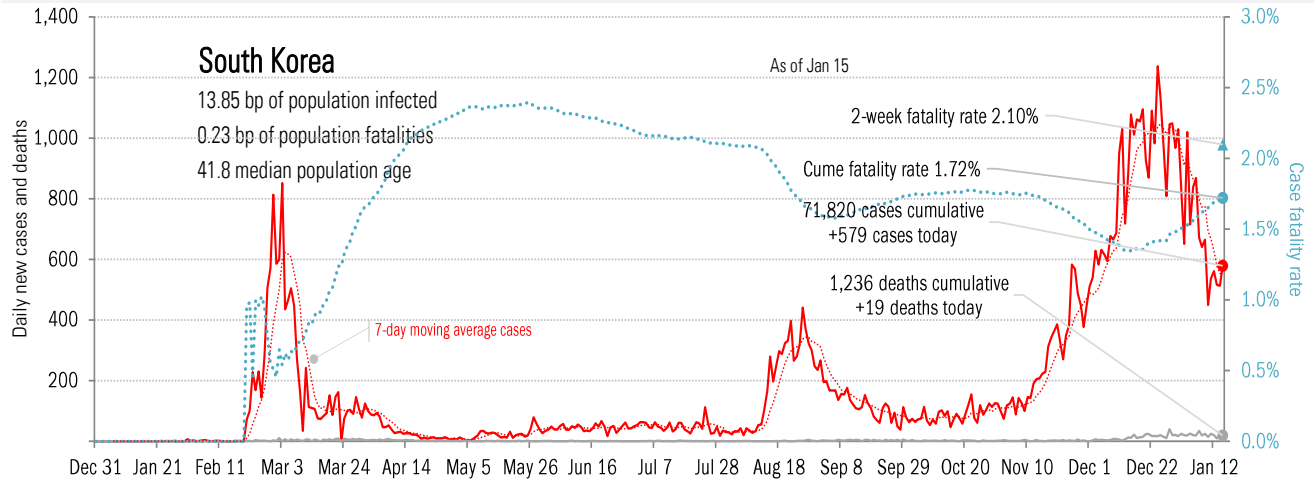
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



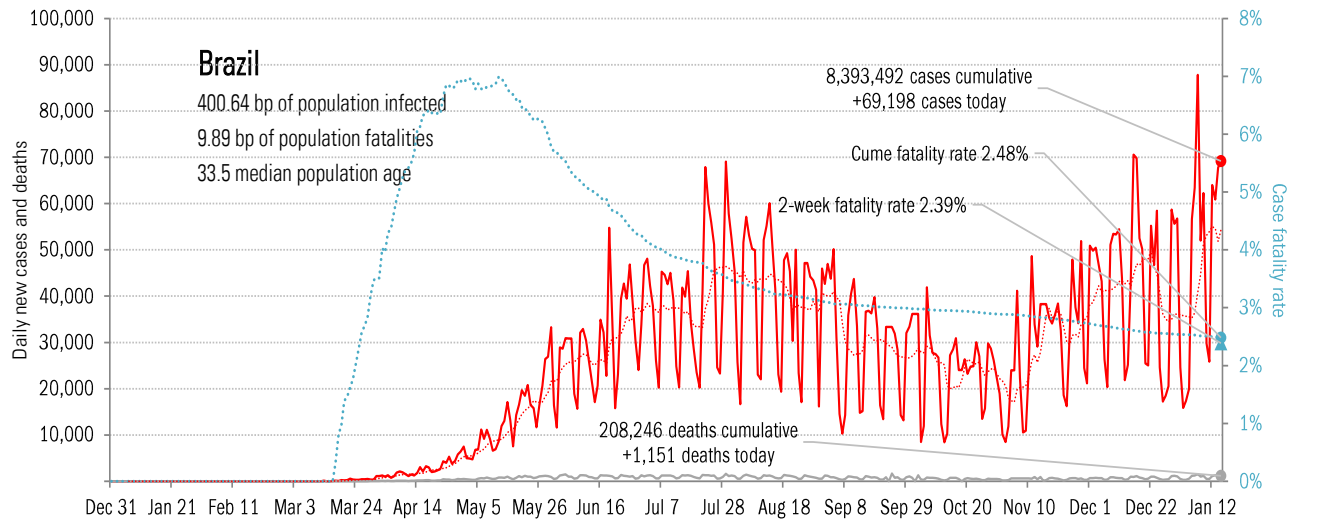
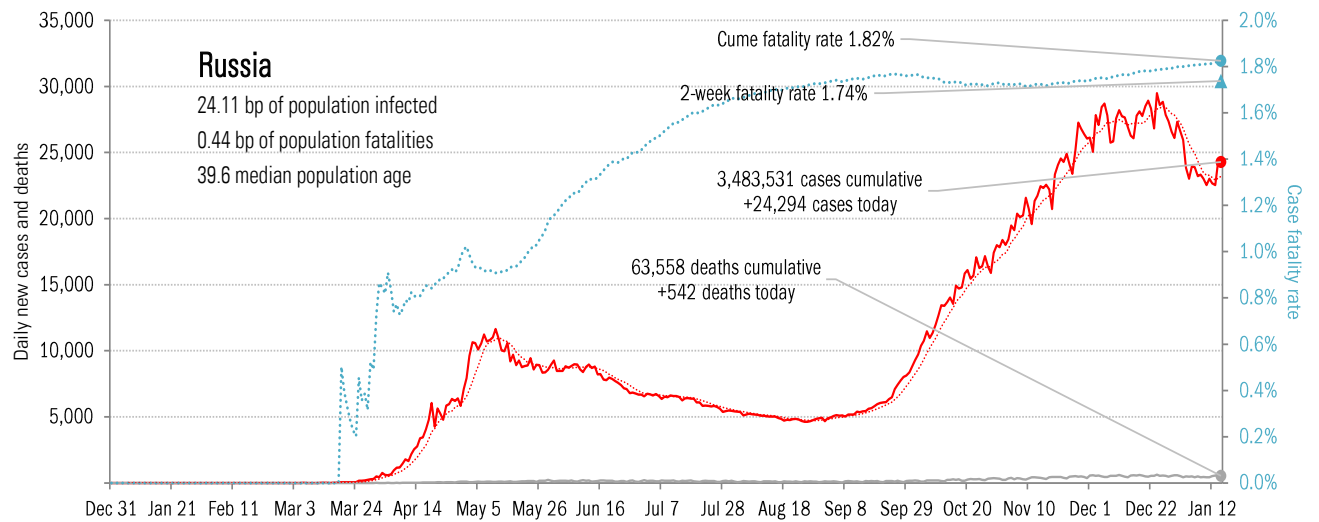
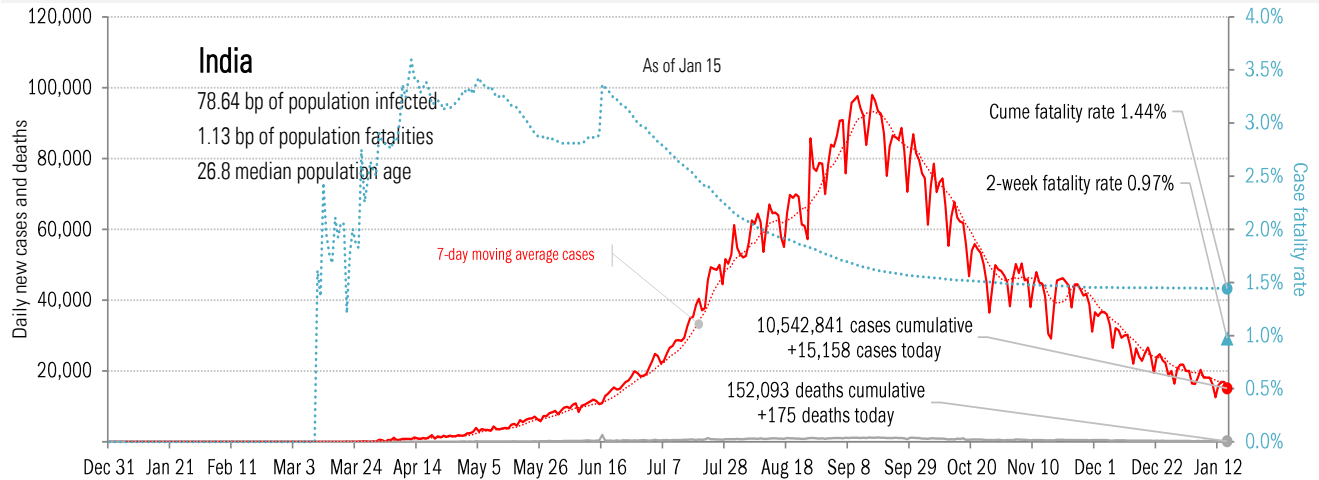
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



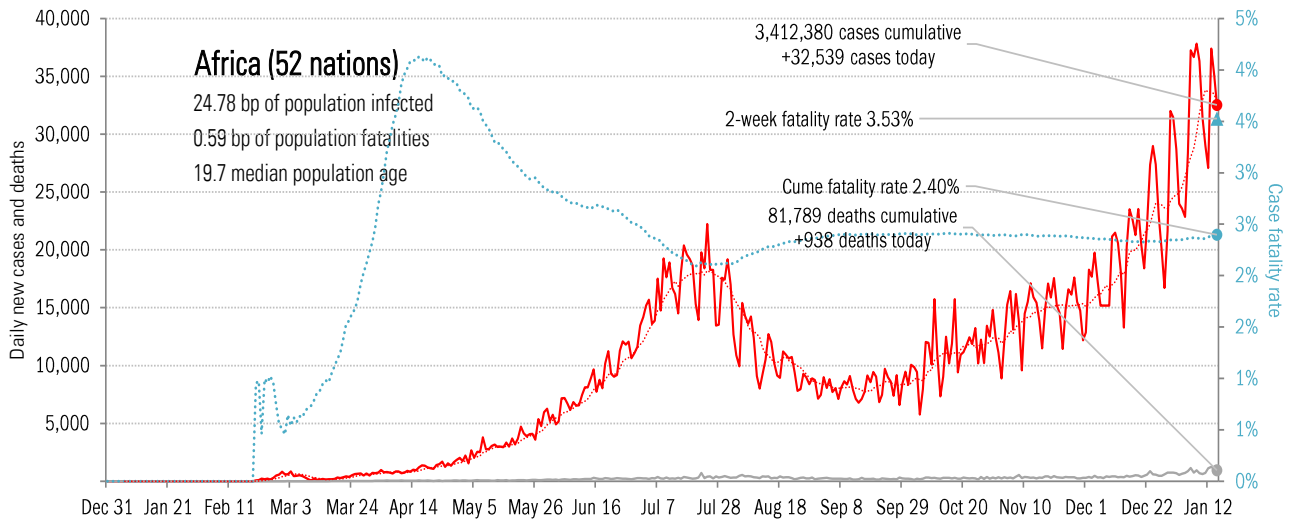
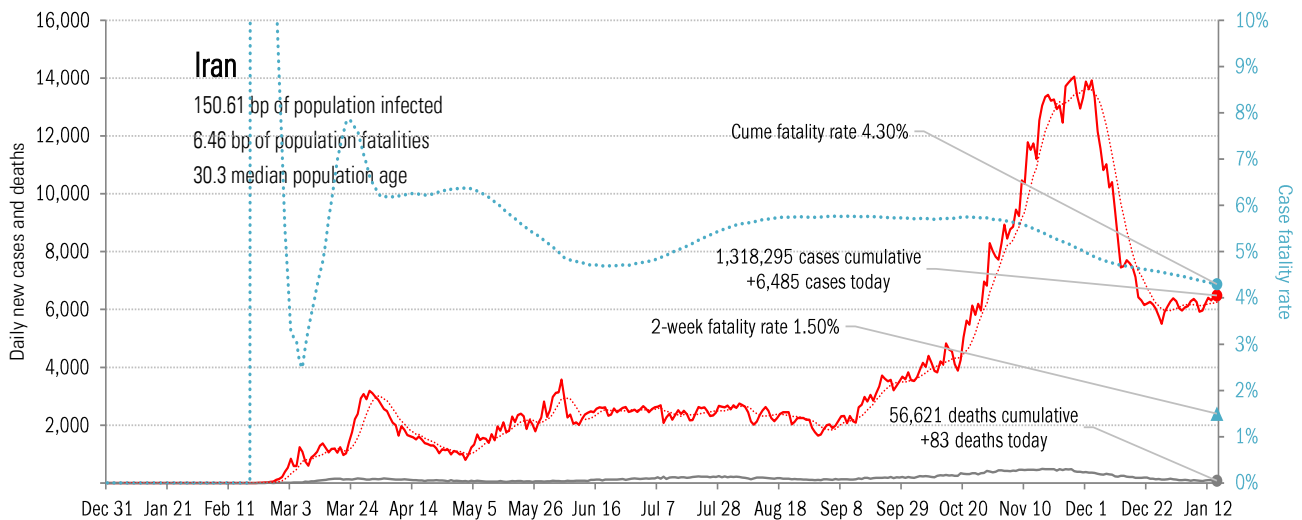
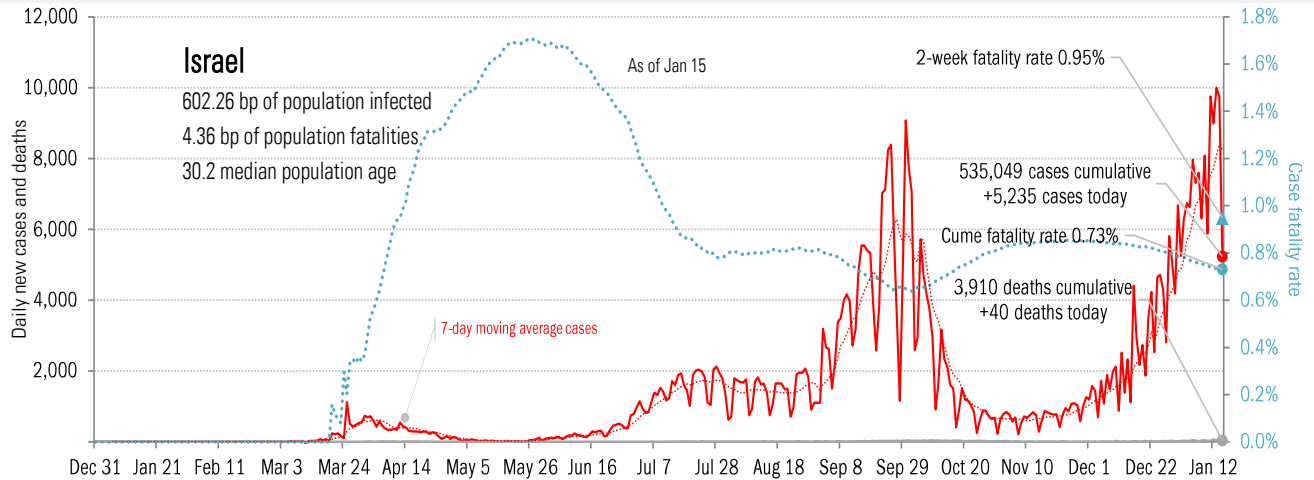
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



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

Impact in the Middle East and Africa



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