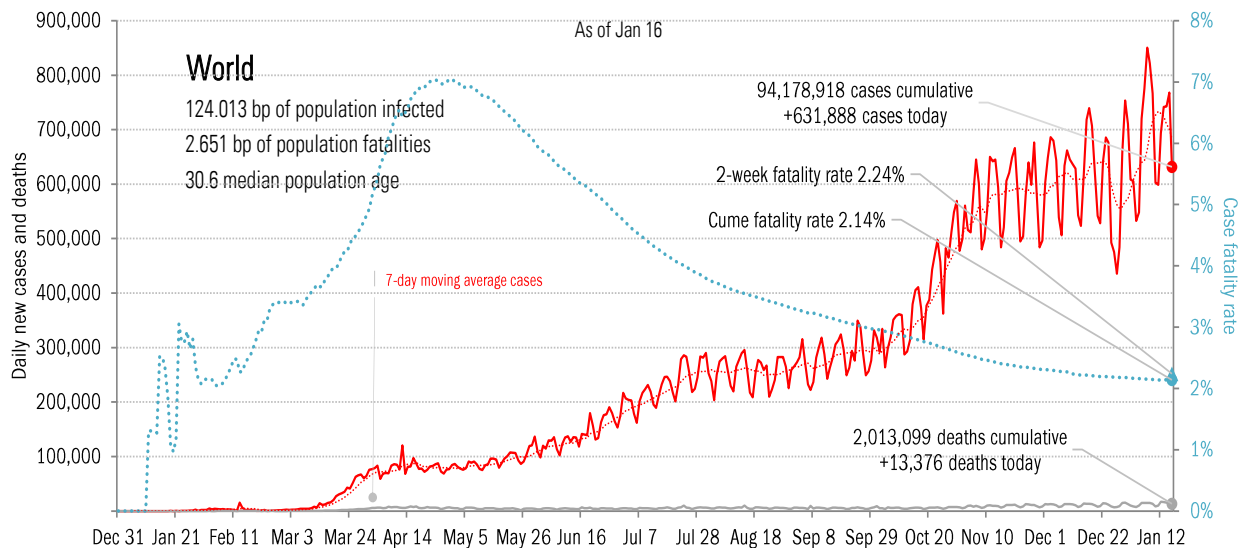
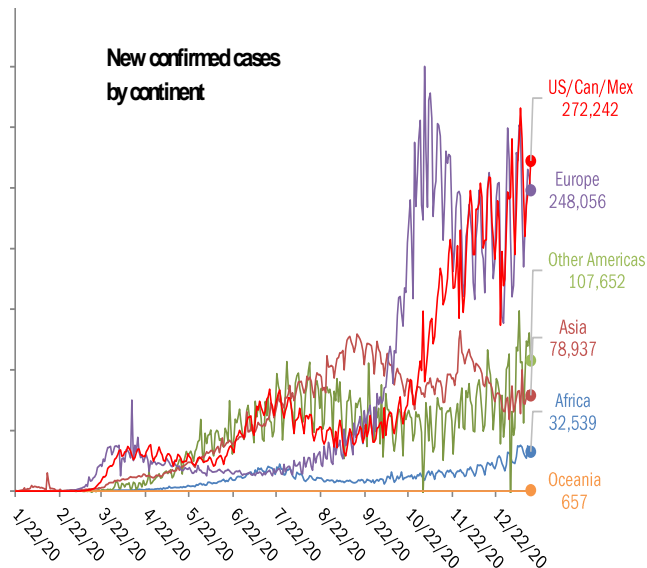


Data Insights: Covid-2019 Monitor

Sunday, January 17, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+215,449	United States	+3,695
Brazil	+61,567	United Kingdom	+1,299
United Kingdom	+41,428	Mexico	+1,219
Russia	+23,670	Brazil	+1,050
Colombia	+20,855	Germany	+759
Mexico	+20,523	Russia	+576
Italy	+16,310	Italy	+475
India	+15,144	Colombia	+388
Germany	+14,817	South Africa	+384
Indonesia	+14,224	Poland	+369
+443,987		+10,214	
World	+631,888	World	+13,376
Top ten	70%	Top ten	76%



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

For more information contact us:

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The US scorecard

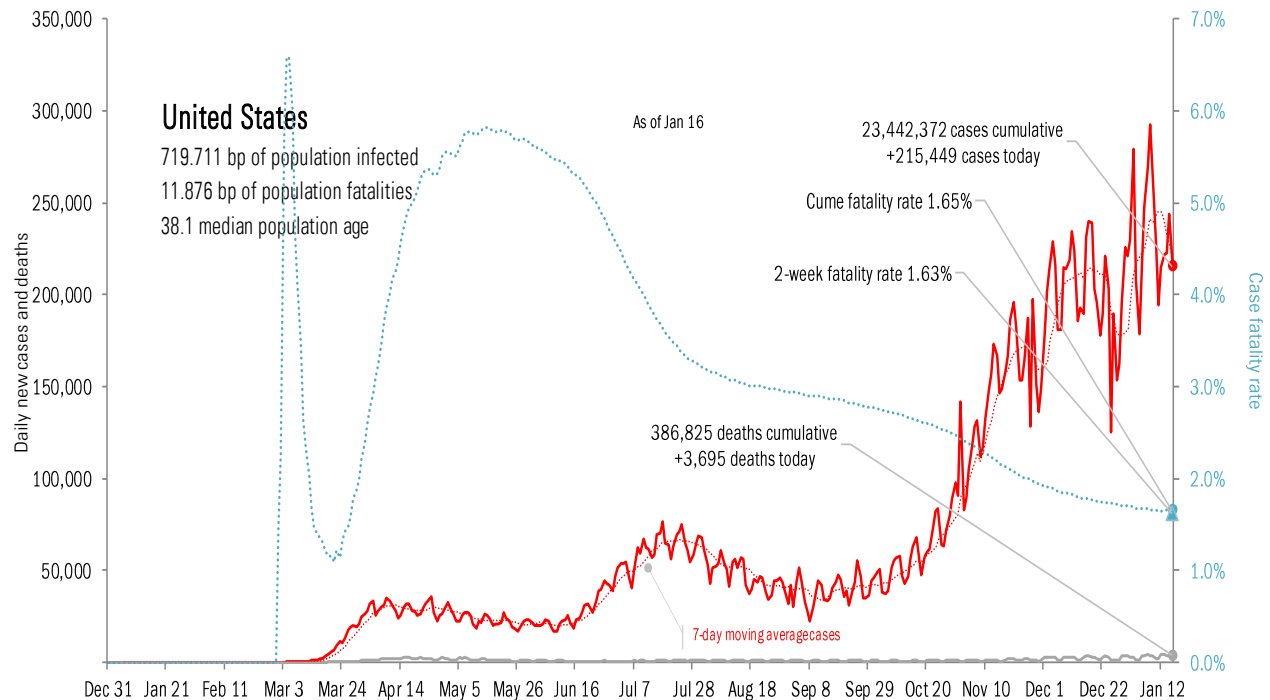
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
CA	+40,622		CA	+669		NJ	+134		CA	2,900,246		CA	32,960		NY	89,995		RI	90%	AL	96%
TX	+24,657		TX	+381		NY	+80		TX	2,097,560		NY	32,725		FL	68,780		GA	89%	GA	94%
NY	+15,998		PA	+231		NV	+26		FL	1,531,830		TX	31,831		NJ	54,395		SC	88%	RI	91%
FL	+11,886		FL	+211		CO	+20		NY	1,219,548		FL	24,380		AZ	46,648		MD	86%	OK	91%
AZ	+8,715		AZ	+208		OK	+19		IL	1,064,667		NJ	20,414		GA	46,515		DC	84%	CA	89%
NC	+7,986		NY	+159		ID	+7		CH	821,507		IL	20,020		CH	43,048		FL	83%	NM	89%
PA	+7,166		GA	+153		ND	+7		PA	761,777		PA	19,188		AL	38,763		CA	81%	TN	89%
CH	+7,065		IL	+147		GJ	+2		TN	680,847		MI	14,669		IN	38,266		PA	81%	TX	88%
GA	+6,926		WI	+135		MT	+2		GA	674,994		MA	13,583		MD	29,412		AZ	81%	MS	87%
VA	+6,757		MI	+119		ME	+1		NC	667,826		GA	12,291		MN	23,291		MA	81%	SC	87%
	+137,778			+2,413			+298			12,420,802			222,061			479,113					
All states	+215,449			+3,695			-1096		All states	23,442,372			386,825			754,689		All states	76%		80%
Top ten	64%			65%			-27%		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	
FL	-4,529	KS	-147	AL	-104	MI	+27,329
KS	-4,093	CT	-41	WA	-61	TX	+17,010
NY	-3,944	TN	-35	GA	-56	PA	+5,446
LA	-3,705	SC	-32	CH	-55	MN	+2,964
TX	-2,547	NY	-28	AR	-41	CH	+2,783

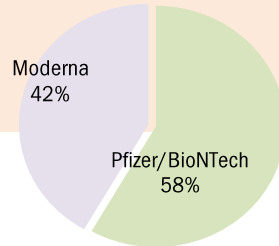


Source: [Covid Tracking Project](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US

US overall	Over last day
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



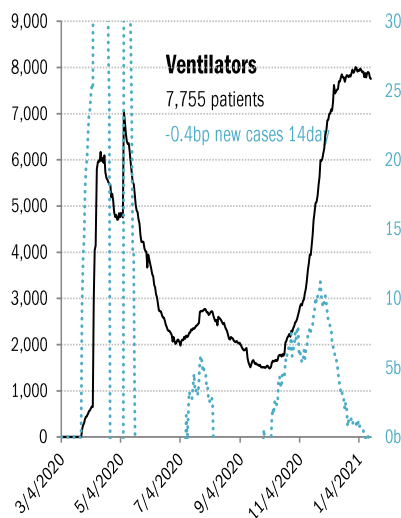
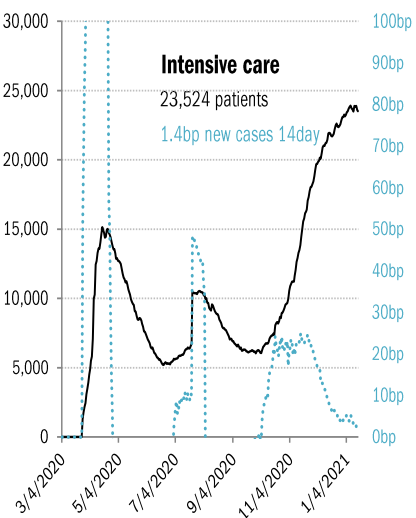
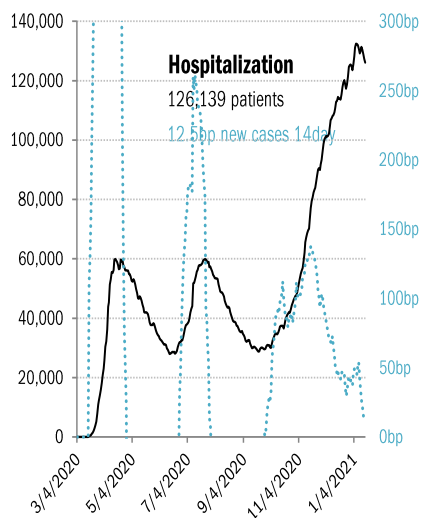
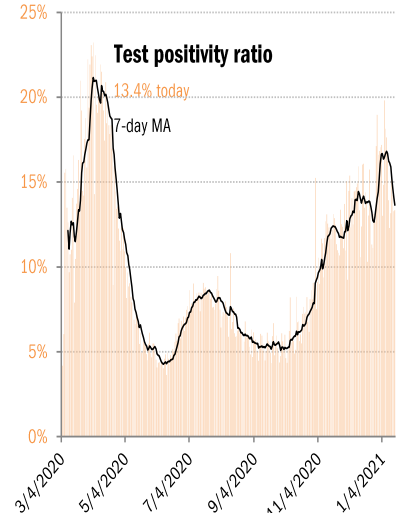
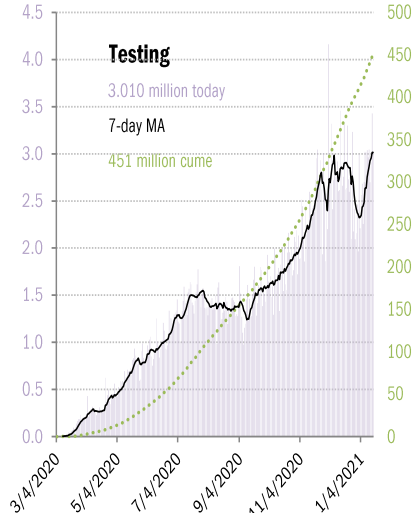
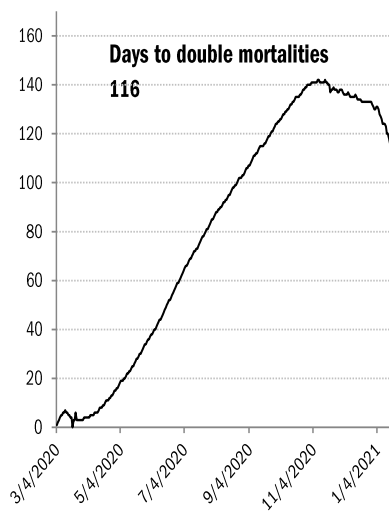
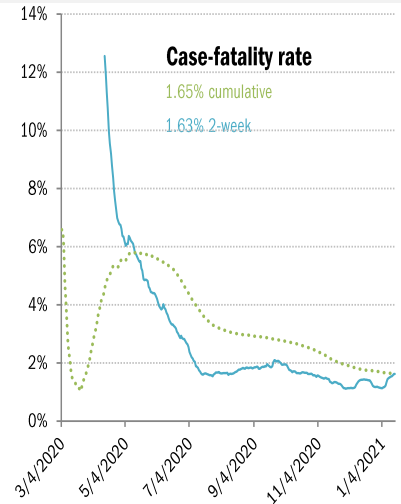
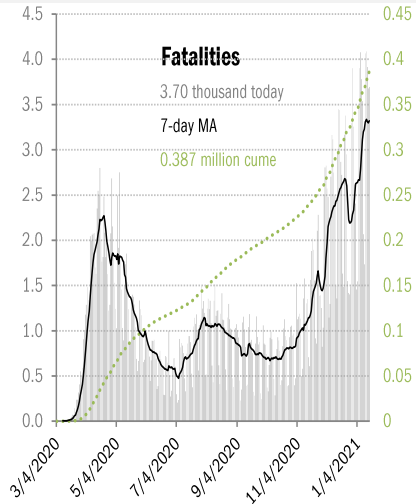
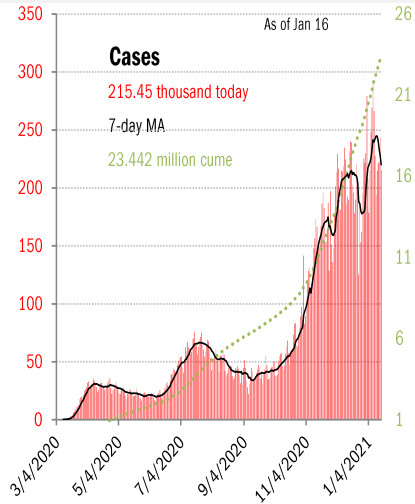
State	Doses distributed as % population	One shot received as % population	Two shots received as % distributed
AK	20.6%	5.4%	1.3%
ME	10.2%	3.8%	0.6%
VT	11.9%	4.5%	0.7%
NH	9.4%	4.2%	0.4%
WI	7.5%	2.6%	0.3%
WA	9.1%	2.6%	0.4%
ID	9.0%	2.1%	0.5%
MT	9.2%	3.9%	0.8%
ND	9.0%	5.1%	1.0%
MN	9.2%	3.0%	0.5%
IL	8.0%	2.7%	0.7%
MI	7.7%	3.1%	0.5%
NY	9.7%	3.5%	0.4%
MA	9.7%	3.2%	0.5%
OR	7.9%	3.2%	0.3%
NV	6.9%	2.2%	0.5%
WY	10.2%	3.4%	0.5%
SD	10.6%	5.4%	1.1%
IA	8.5%	3.4%	0.3%
IN	9.5%	3.3%	0.6%
OH	8.3%	3.1%	0.1%
PA	8.4%	3.0%	0.5%
NJ	7.4%	3.1%	0.4%
CT	9.2%	4.7%	0.5%
RI	10.2%	3.7%	0.8%
CA	9.0%	2.2%	0.5%
UT	8.4%	3.6%	0.3%
CO	9.2%	3.9%	0.8%
NE	10.9%	4.0%	0.7%
MO	8.6%	2.5%	0.6%
KY	7.6%	3.6%	0.2%
WV	11.5%	6.3%	1.2%
VA	10.0%	2.5%	0.3%
MD	9.3%	3.0%	0.3%
DE	9.4%	2.6%	0.6%
AZ	7.9%	2.4%	0.3%
NM	9.8%	3.8%	0.9%
KS	9.0%	2.9%	0.5%
AR	9.9%	3.2%	0.6%
TN	9.6%	3.9%	0.6%
NC	9.5%	2.5%	0.4%
SC	6.8%	2.0%	0.4%
DC	9.7%	4.5%	1.2%
OK	10.7%	4.4%	0.7%
LA	8.0%	3.6%	0.7%
MS	7.8%	2.6%	0.3%
AL	9.1%	1.8%	0.3%
GA	9.5%	1.9%	0.2%
HI	10.9%	2.8%	0.5%
TX	7.3%	3.5%	0.5%
FL	9.6%	3.6%	0.3%
PR	9.7%	2.7%	0.5%

As of Jan 15

Source: [CDC](#), TrendMacro calculations

US deep-dive

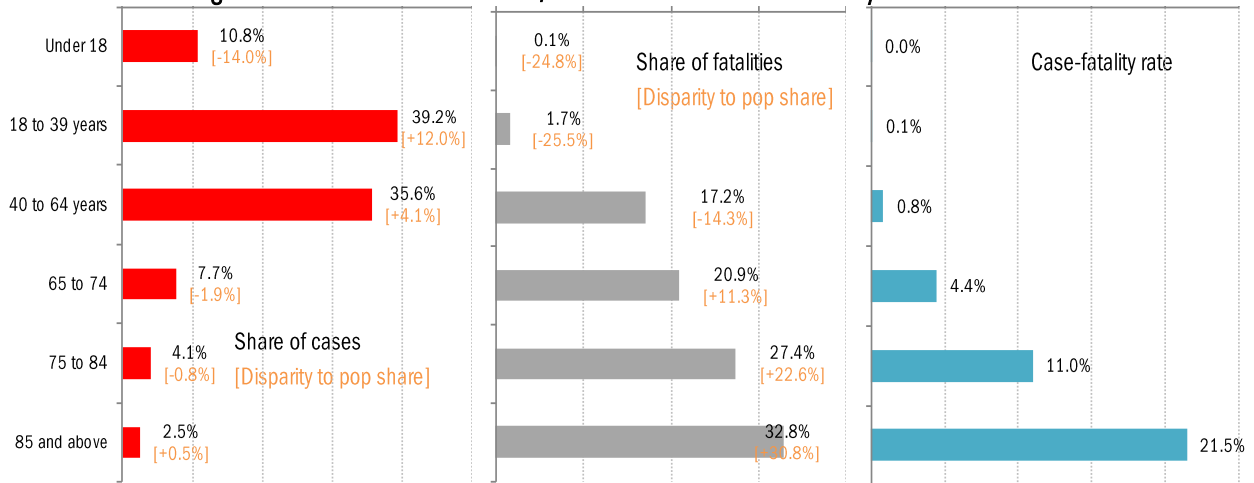
National and state-by-state data do not line up because of different sources



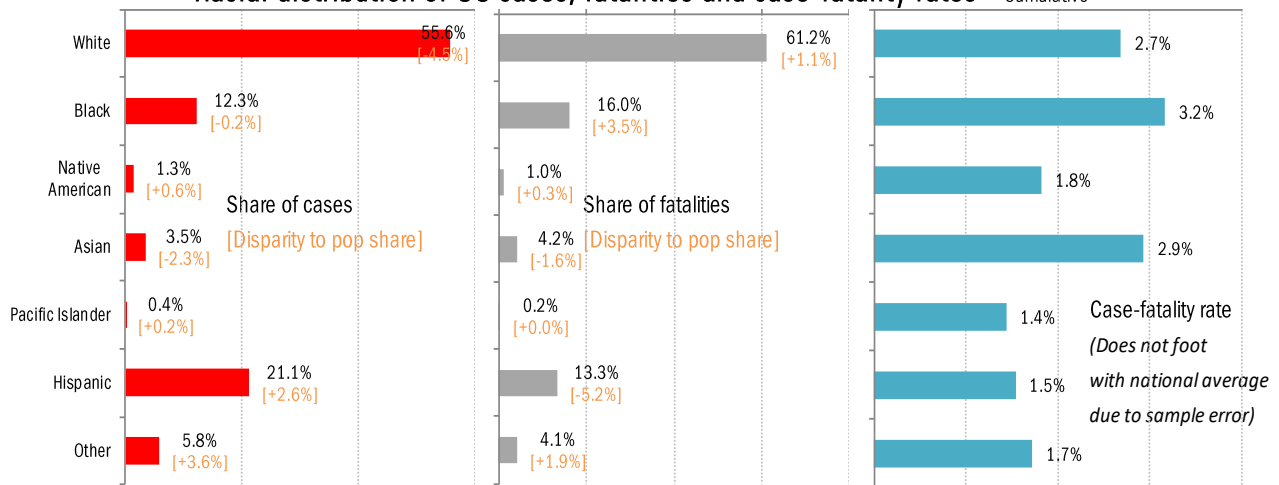
Source: [Covid Tracking Project](#), TrendMacro calculations

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

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

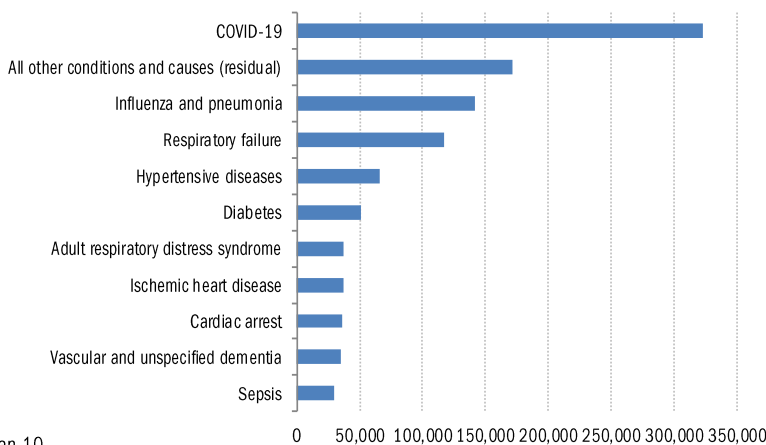


Racial distribution of US cases, fatalities and case-fatality rates



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

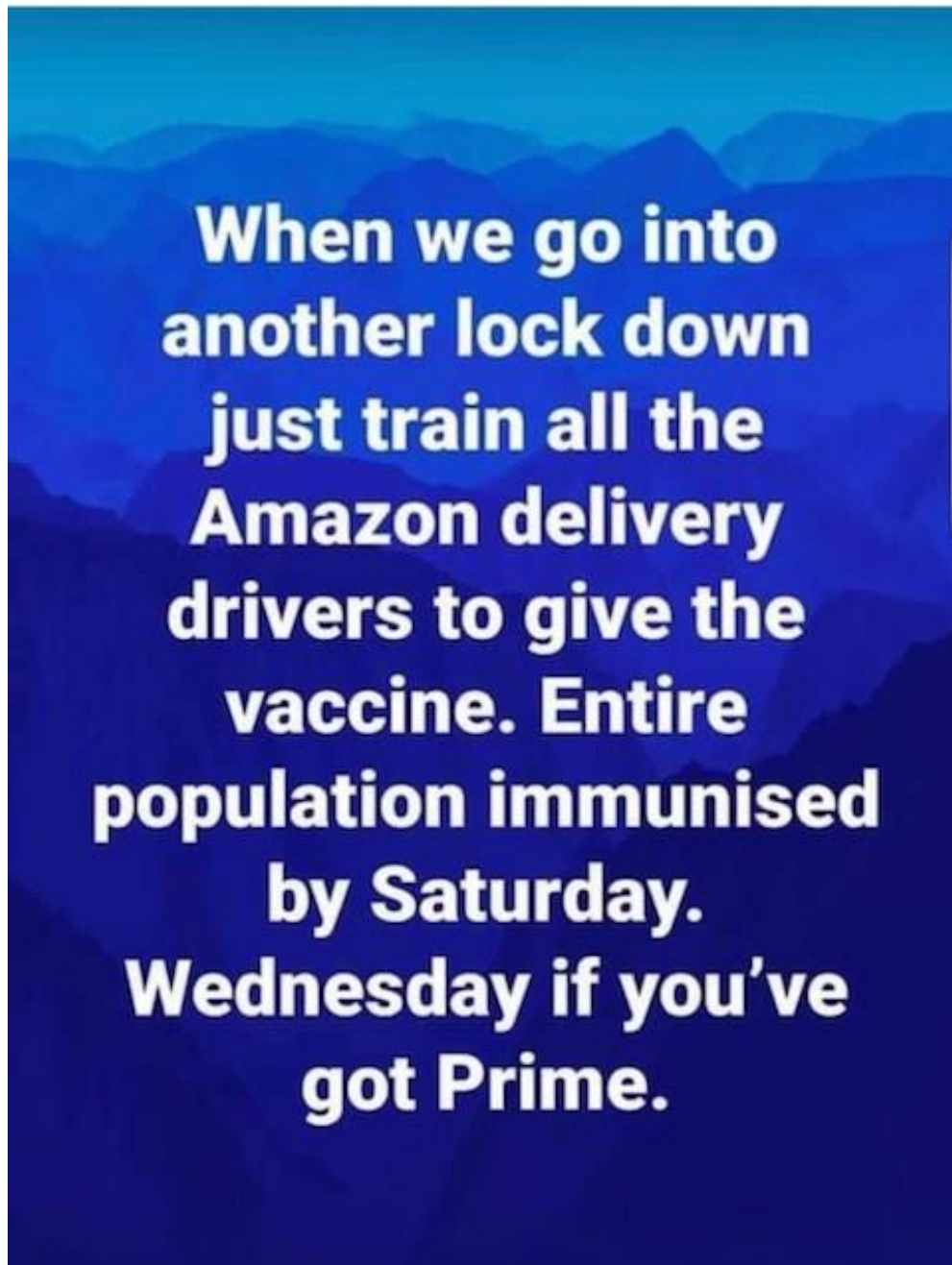
Recommended reading

[Fact Sheet: Activity at the Wuhan Institute of Virology](#)

US Department of State

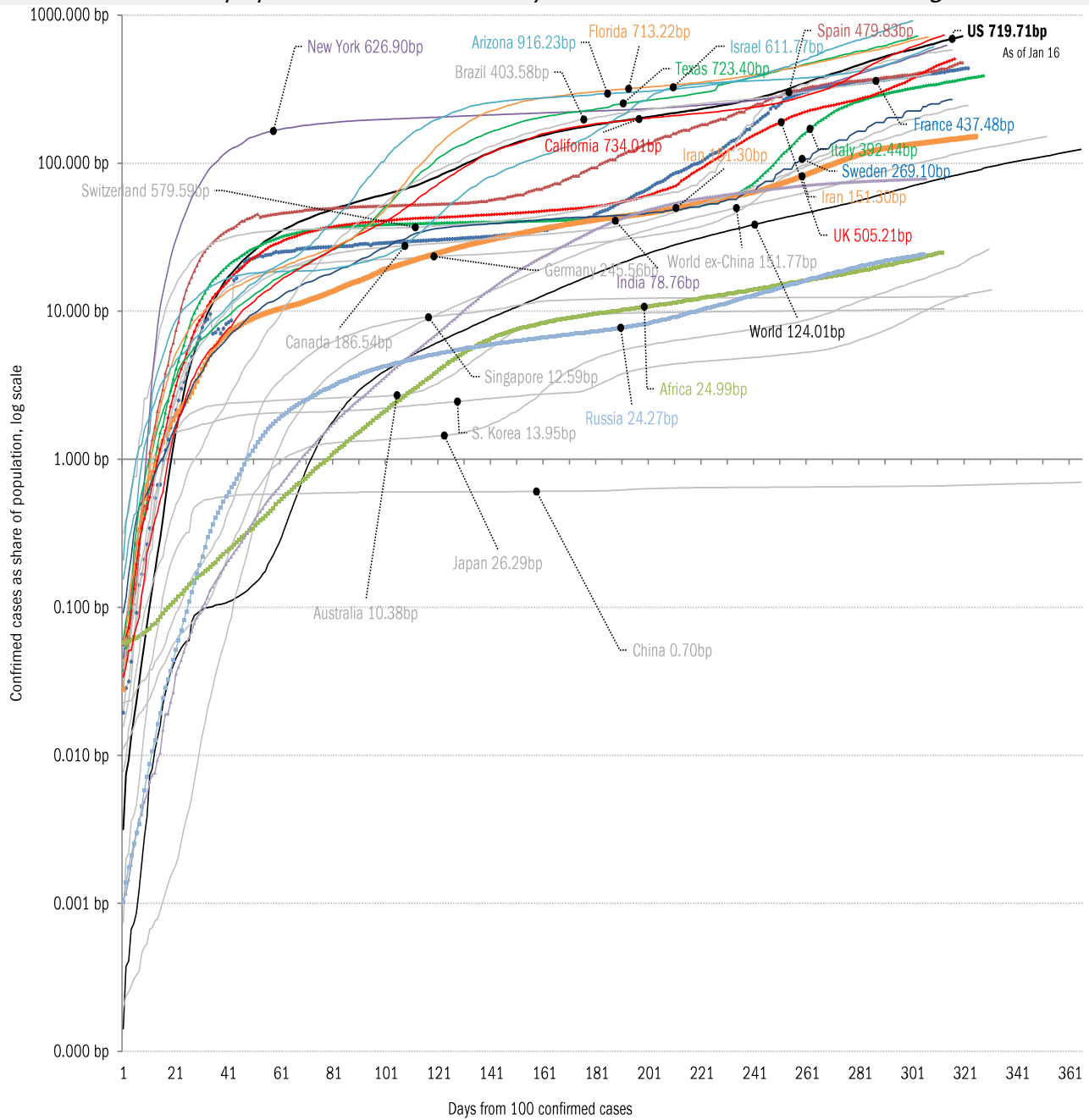
January 15, 2021

Meme of day



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

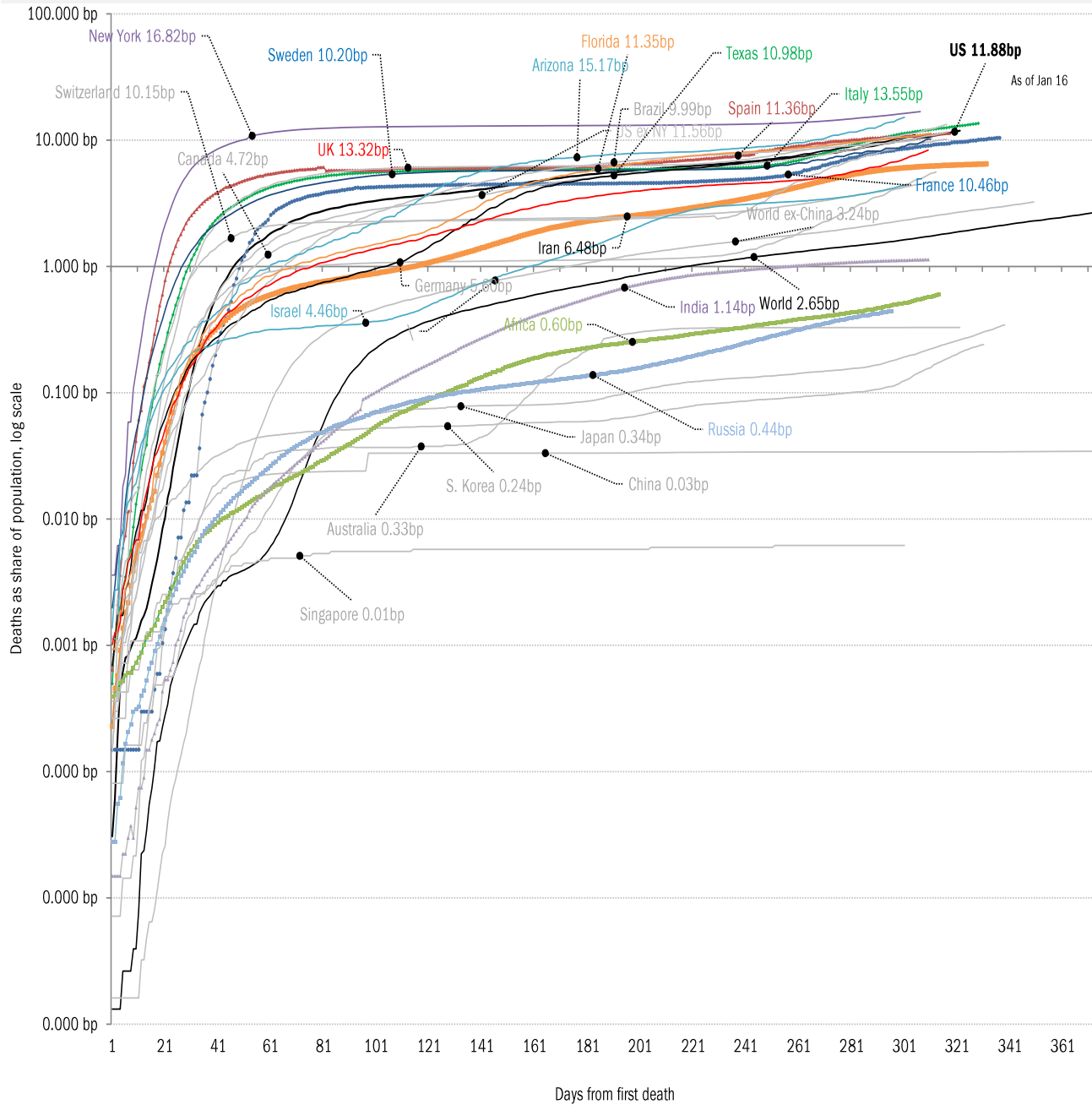
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

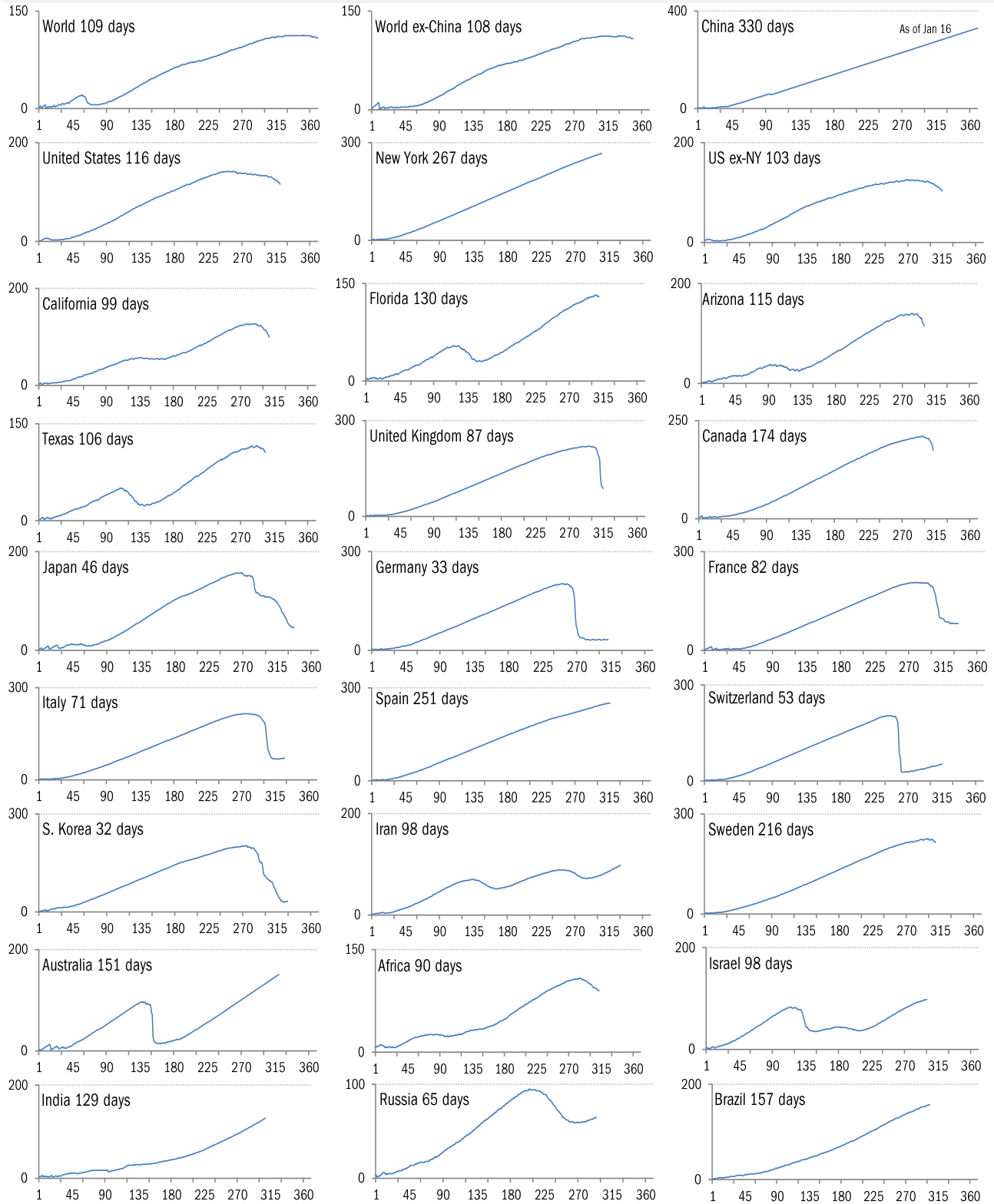


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

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

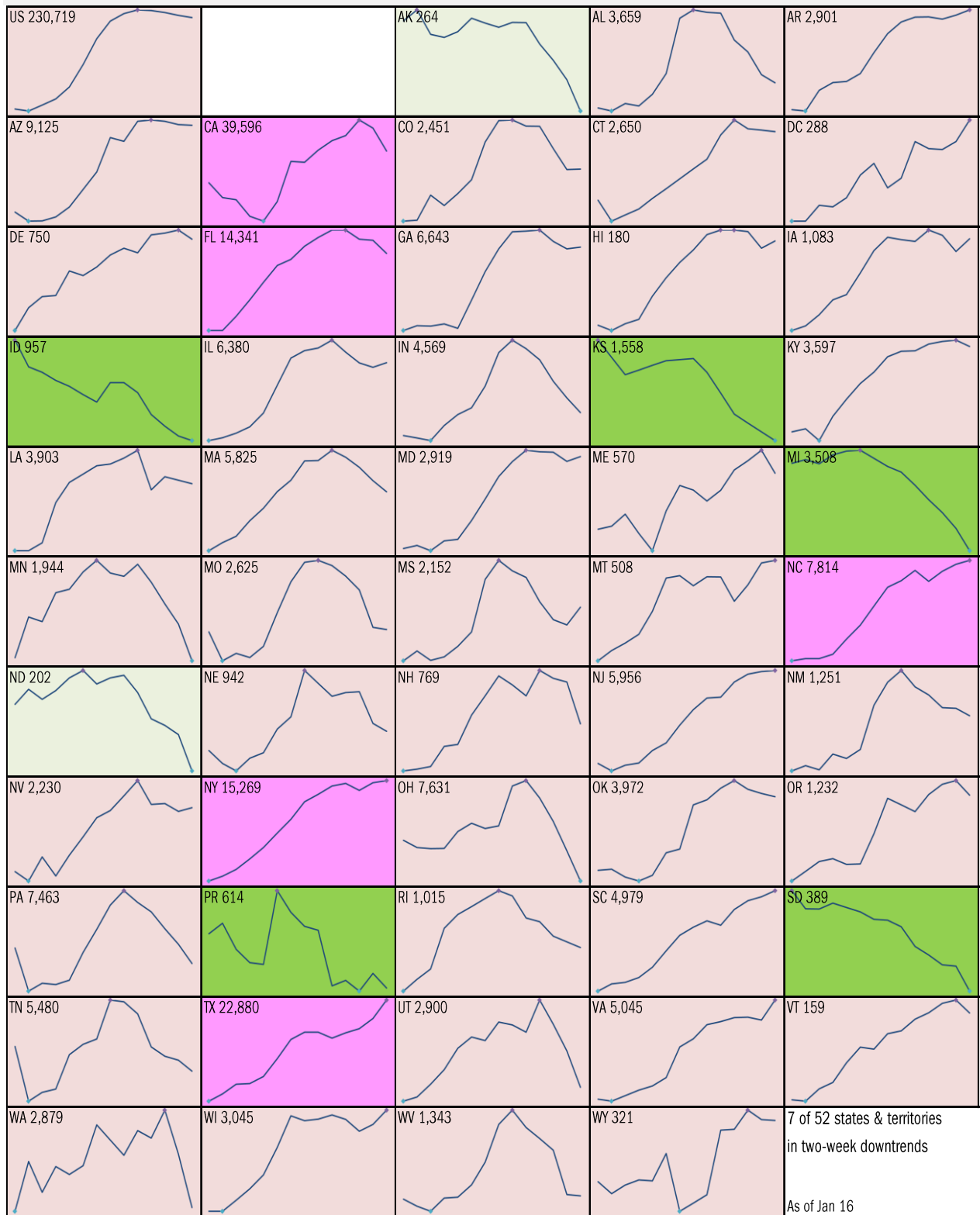


Source: [Johns Hopkins, Covid Tracking Project](#), TrendMacro calculations

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

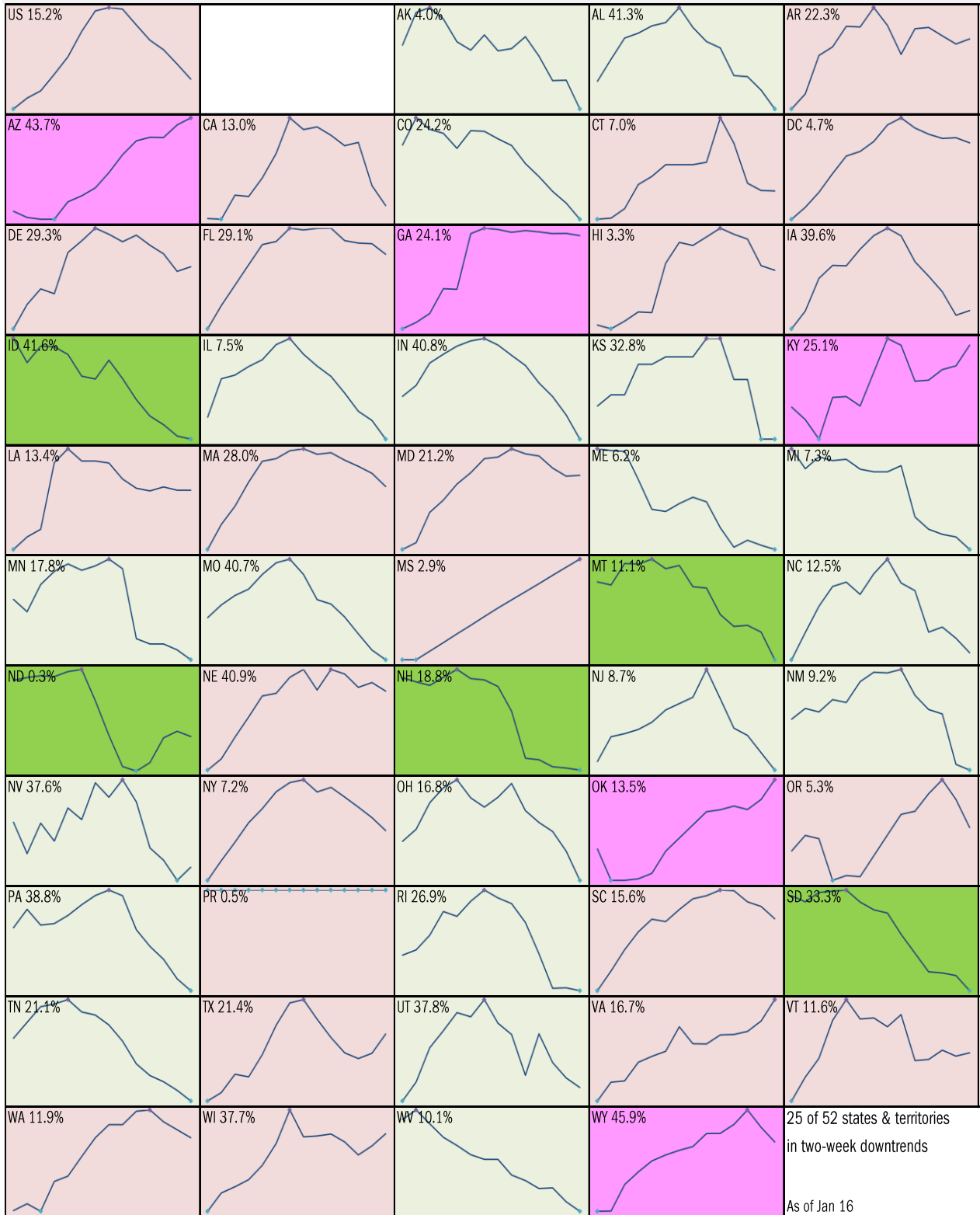


Source: [Covid Tracking Project](#), TrendMacro calculations

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



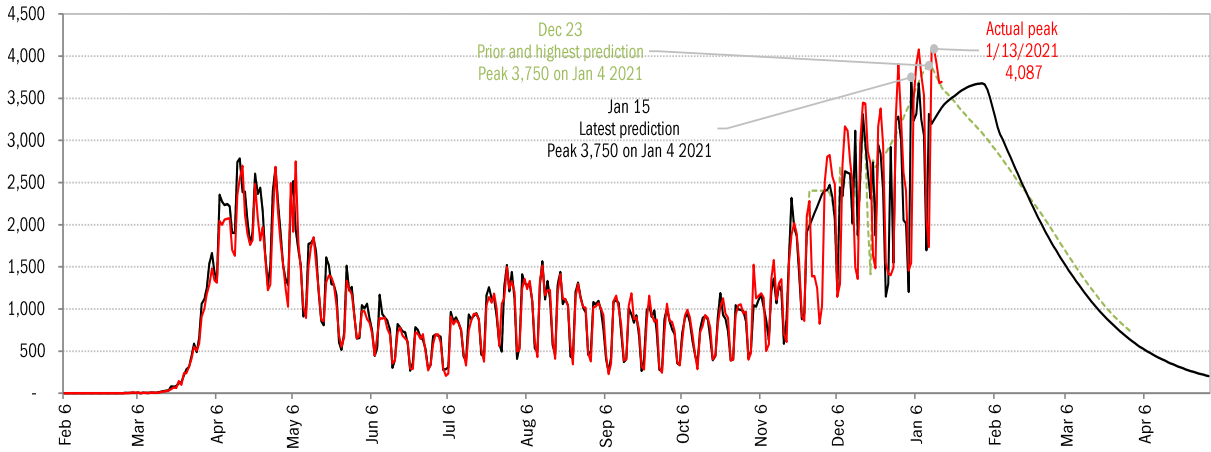
Source: [Covid Tracking Project](#), TrendMacro calculations

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

New daily fatalities

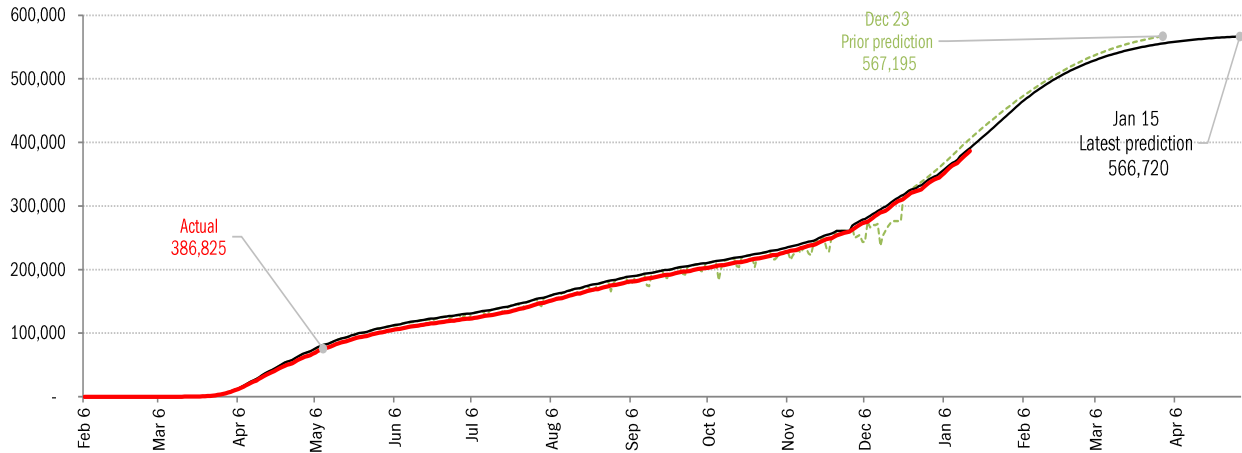
As of Jan 16

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

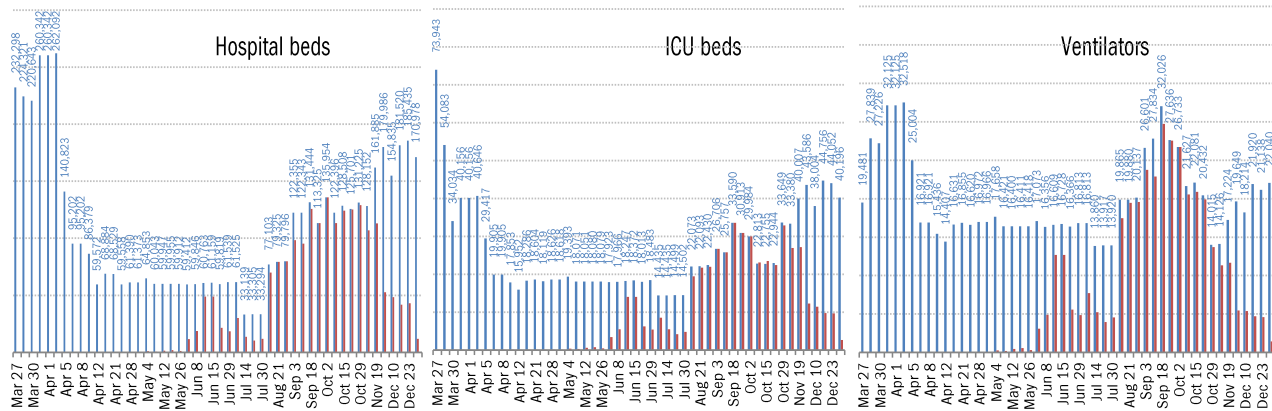


Cumulative fatalities

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

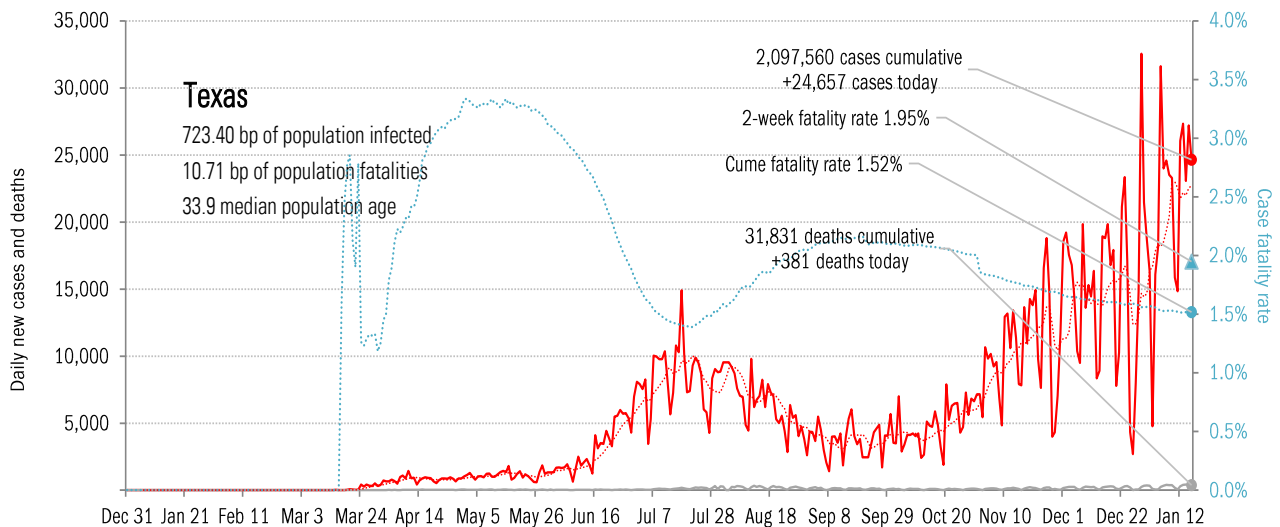
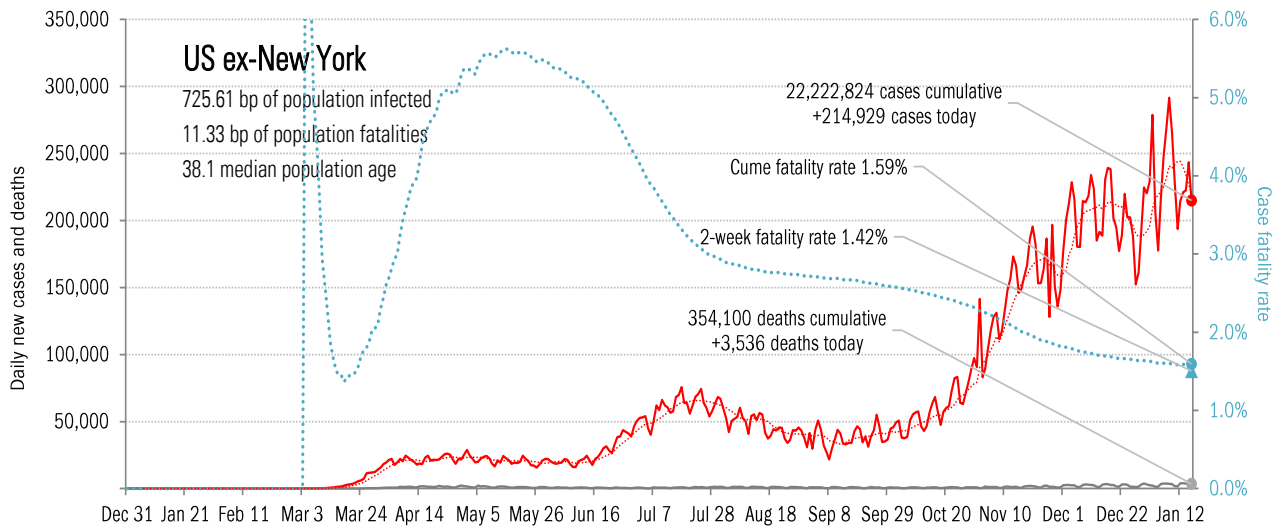
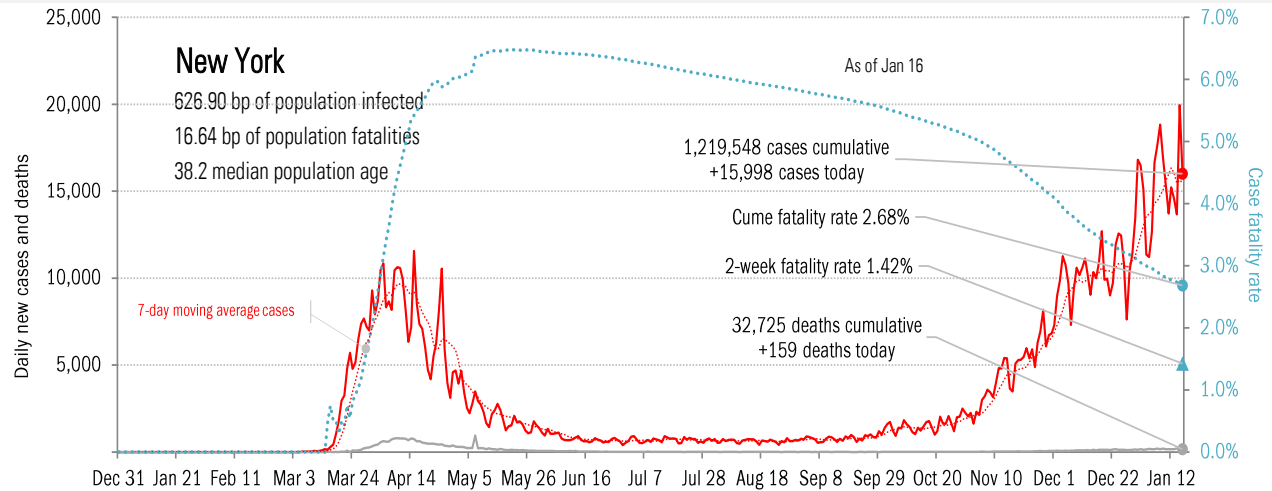


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



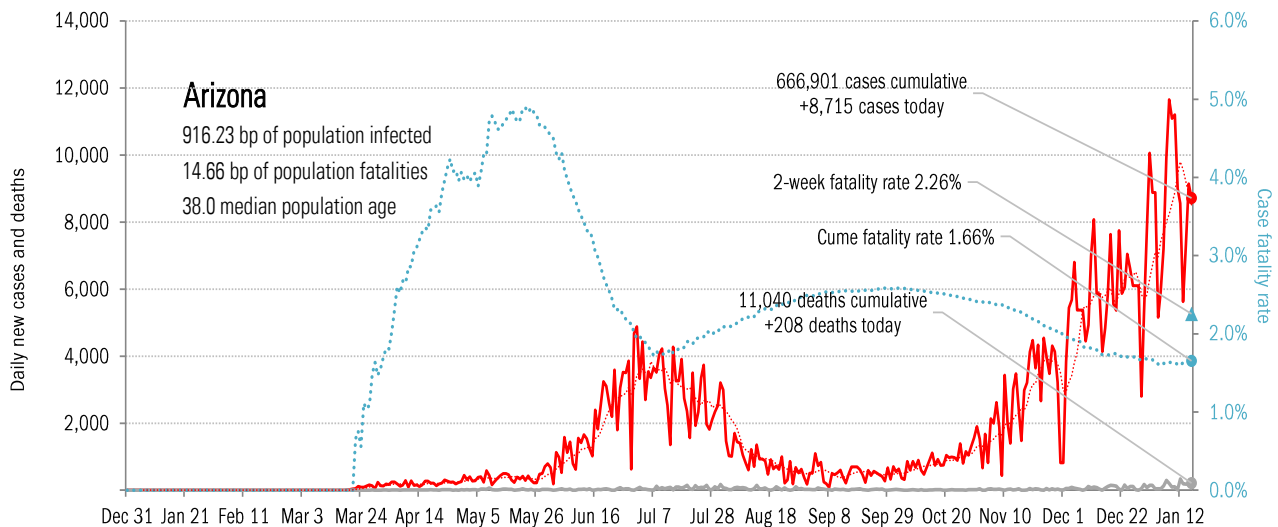
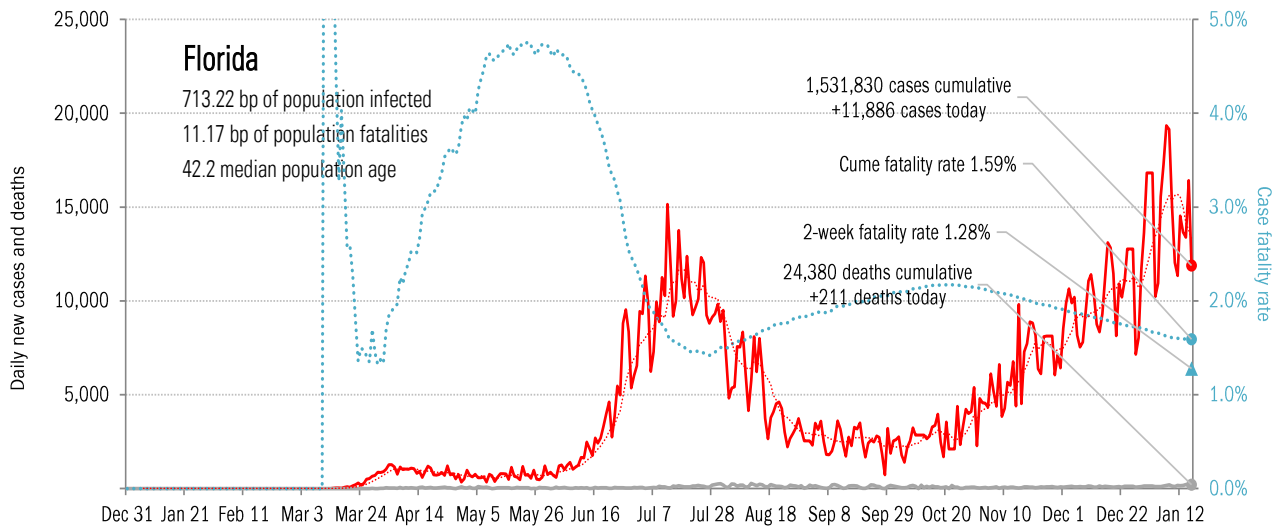
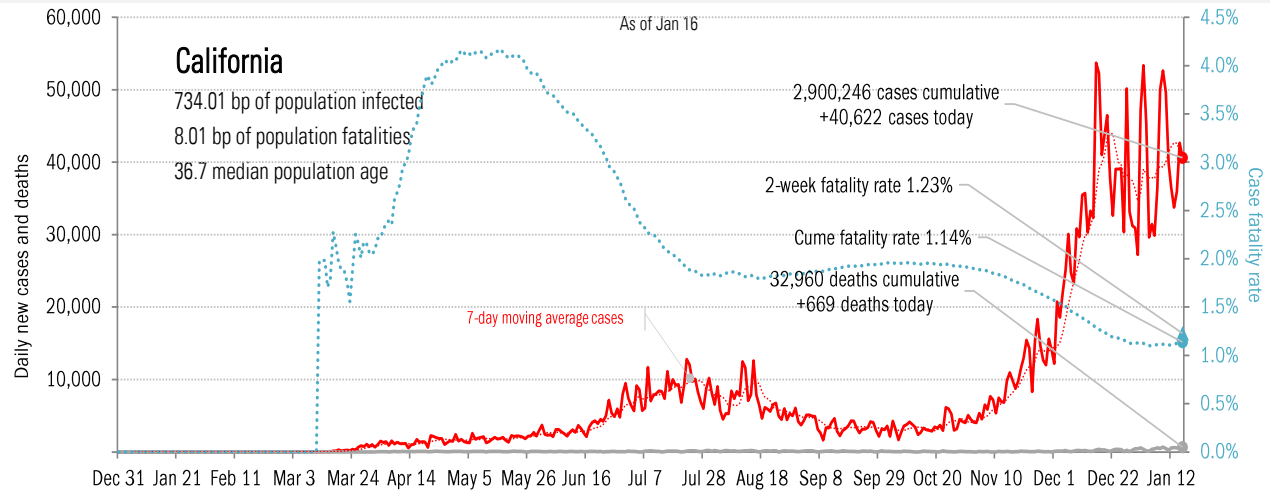
Source: [IHME](#), [Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



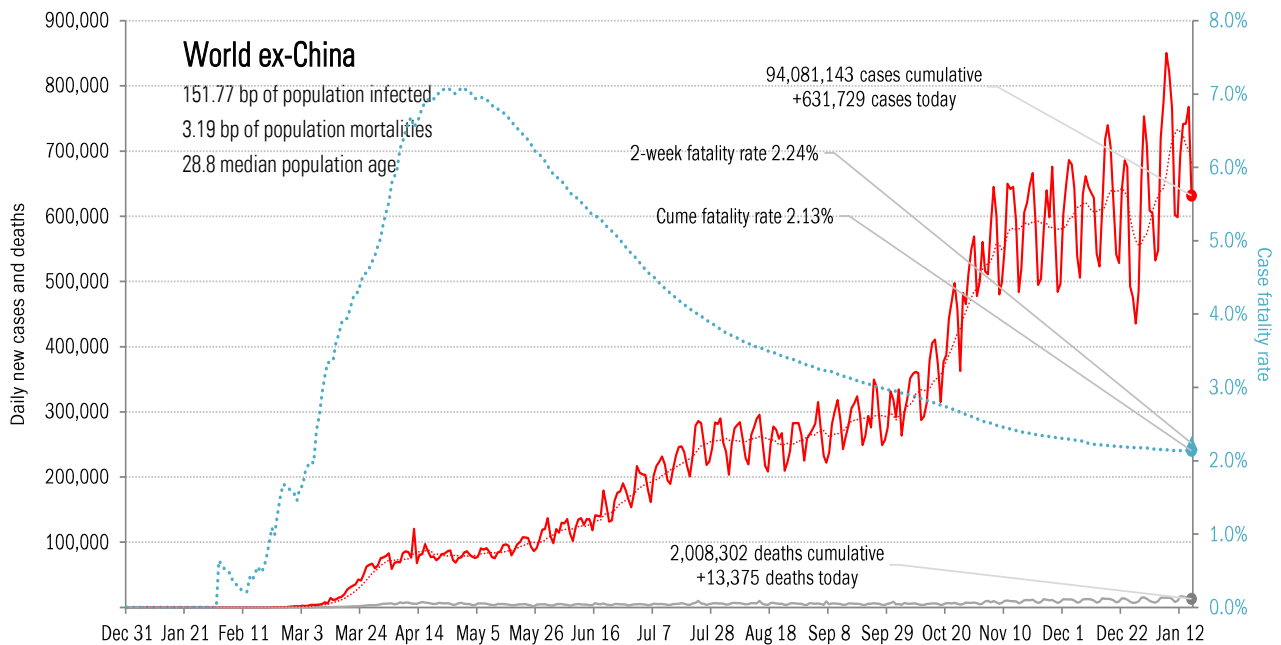
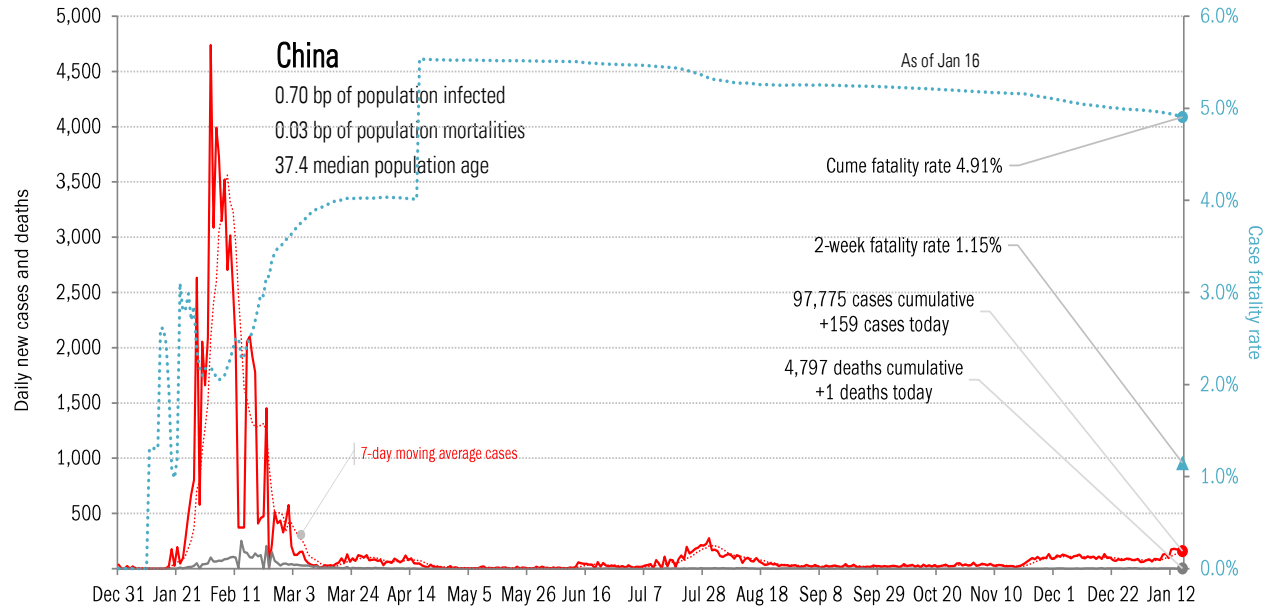
Source: [Covid Tracking Project](#), TrendMacro calculations

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



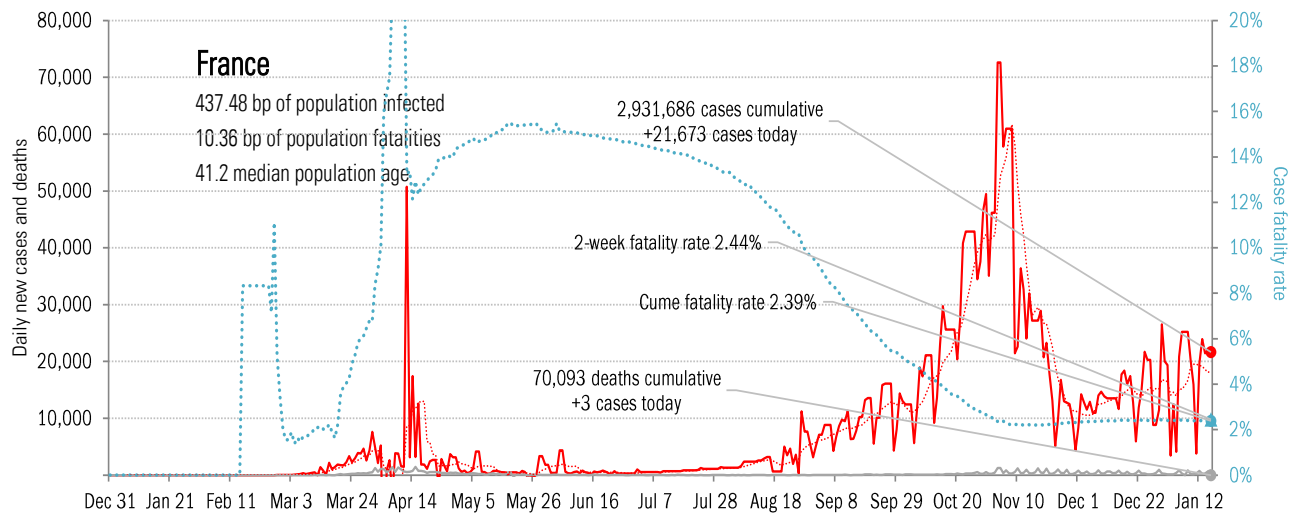
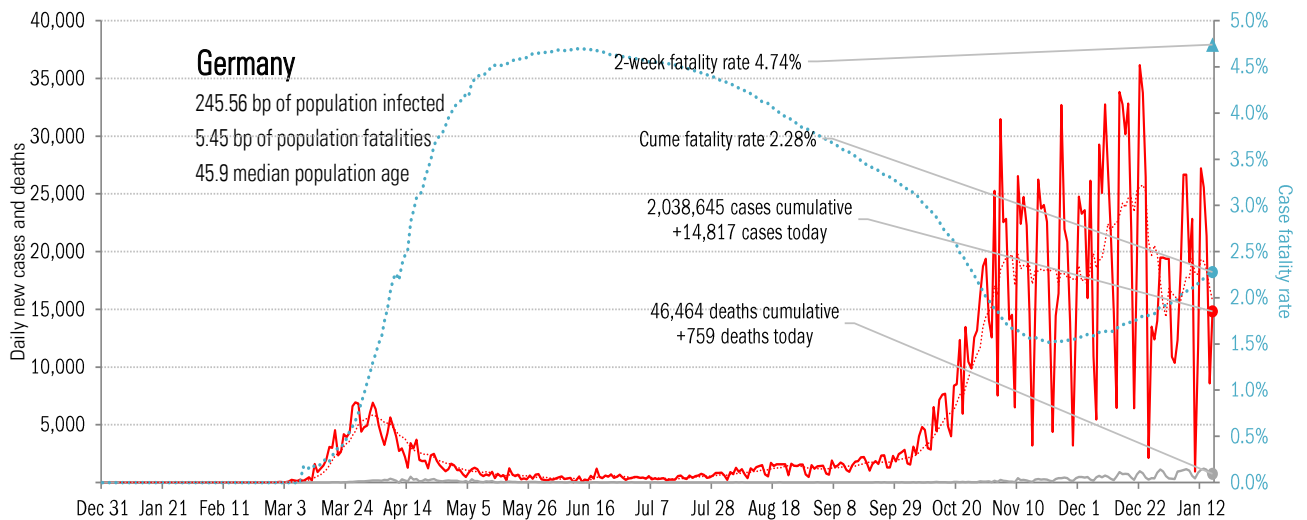
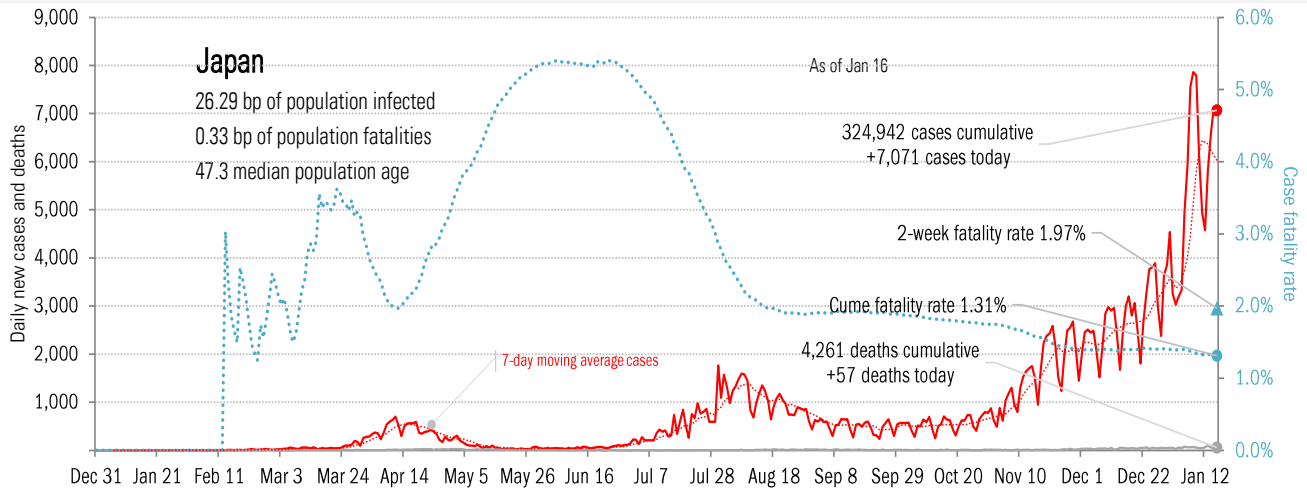
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



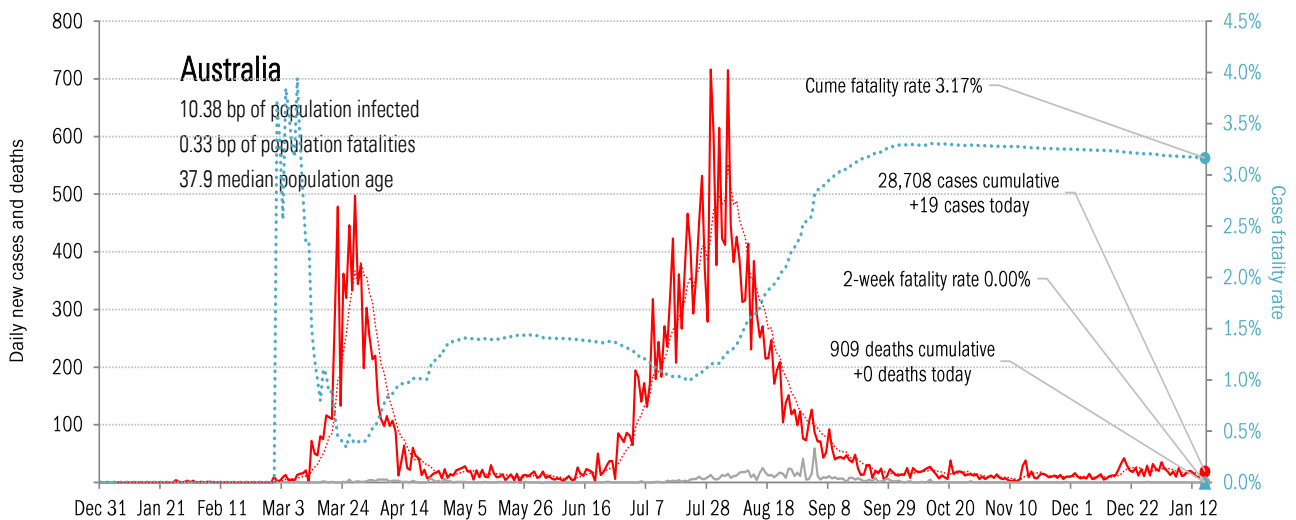
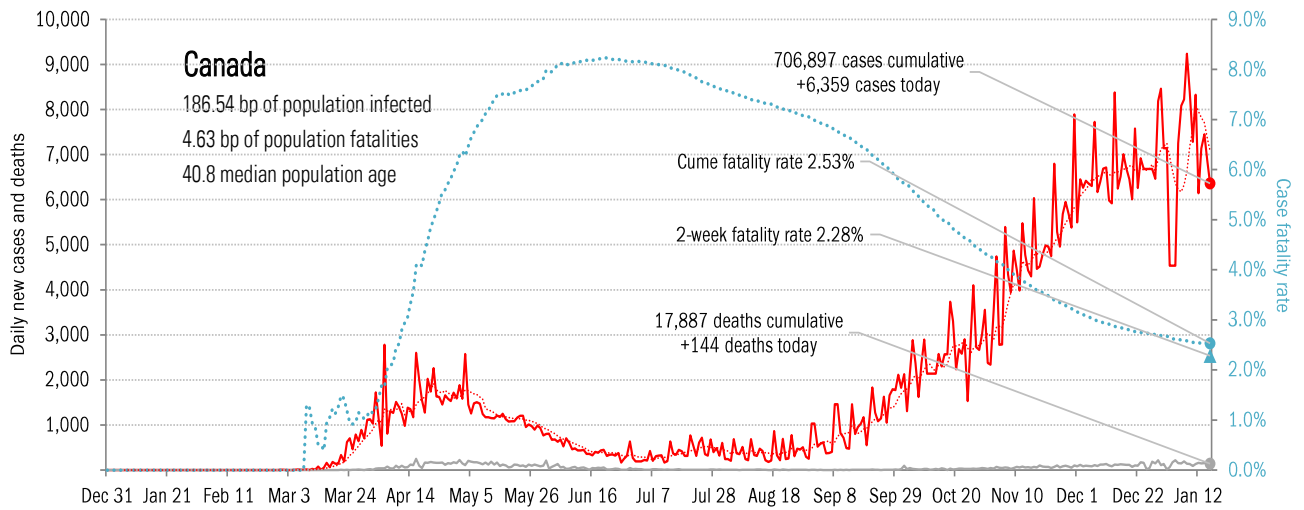
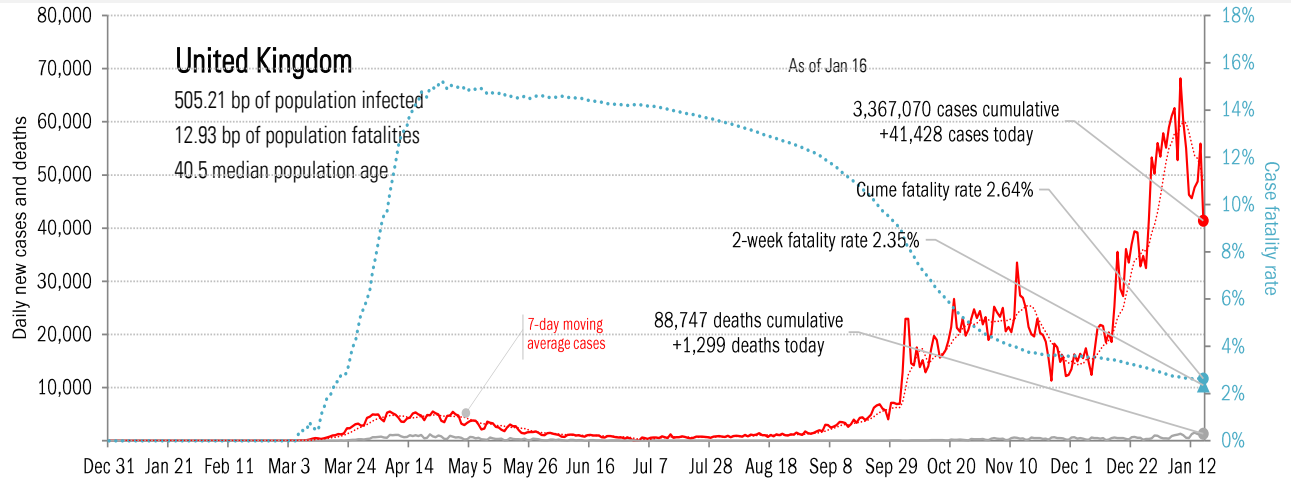
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



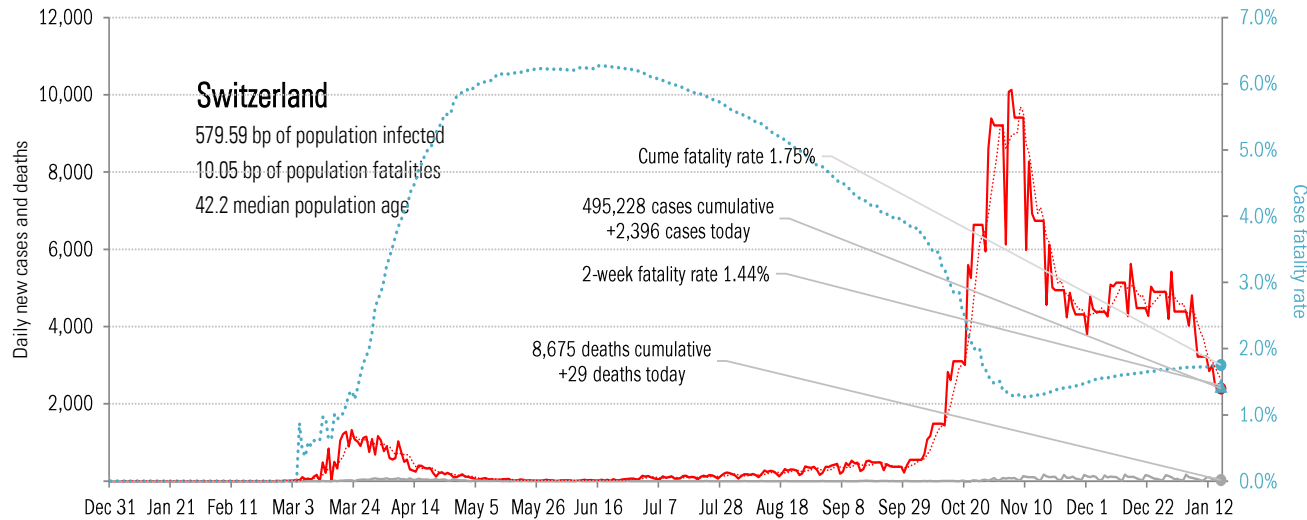
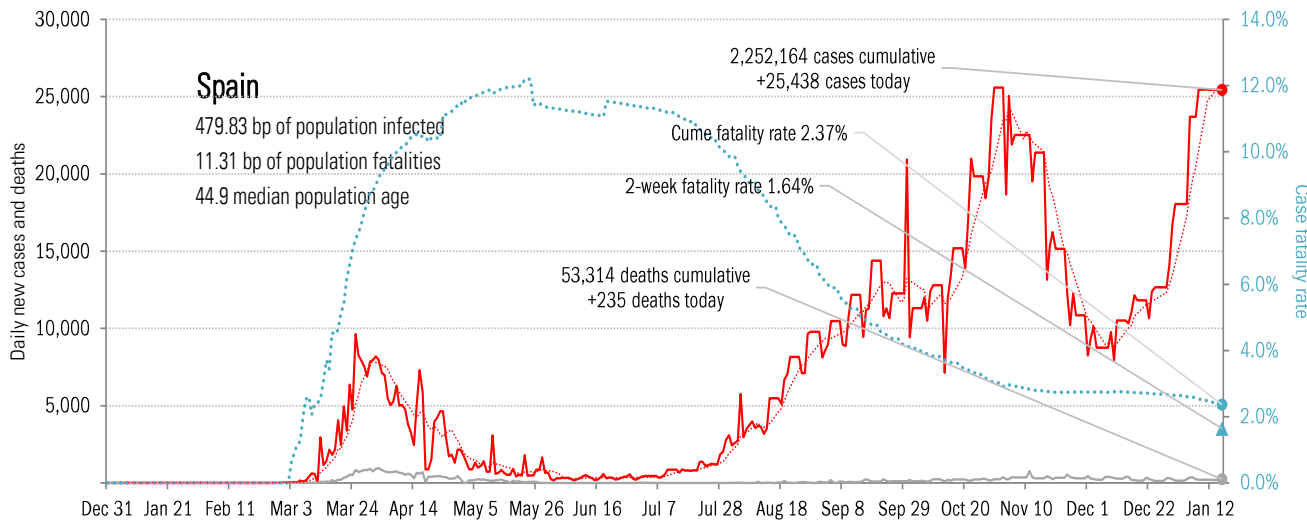
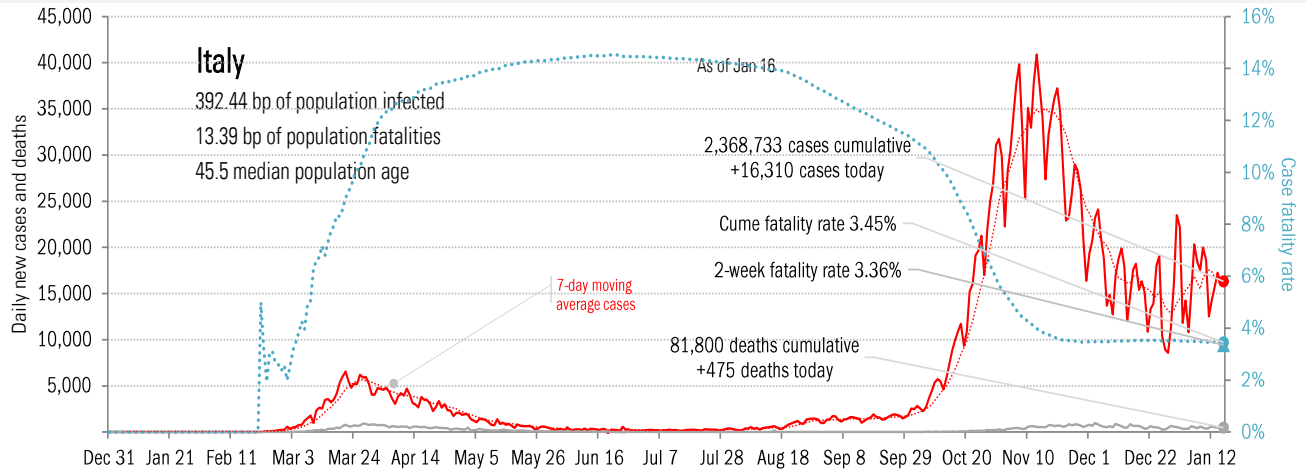
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



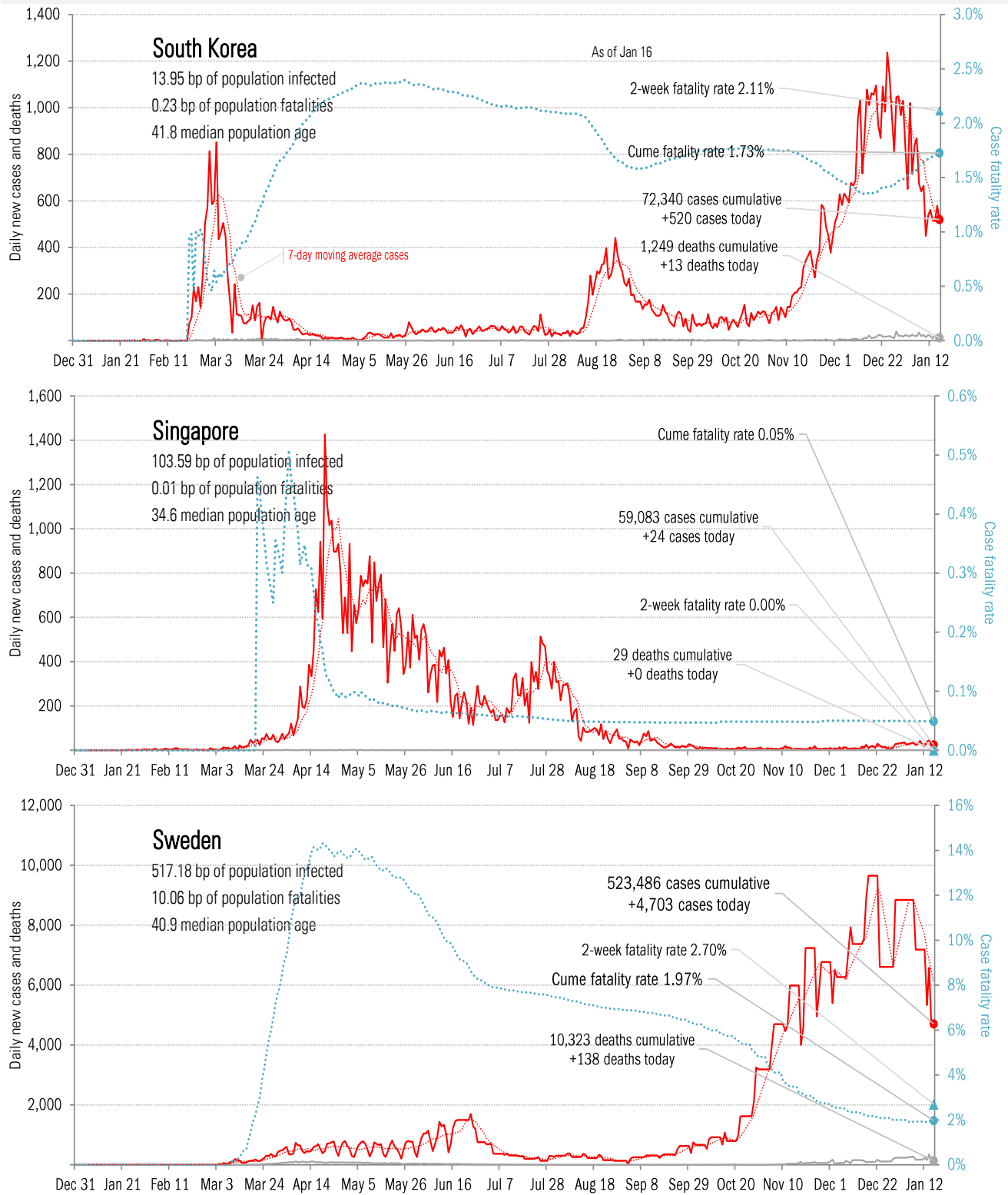
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



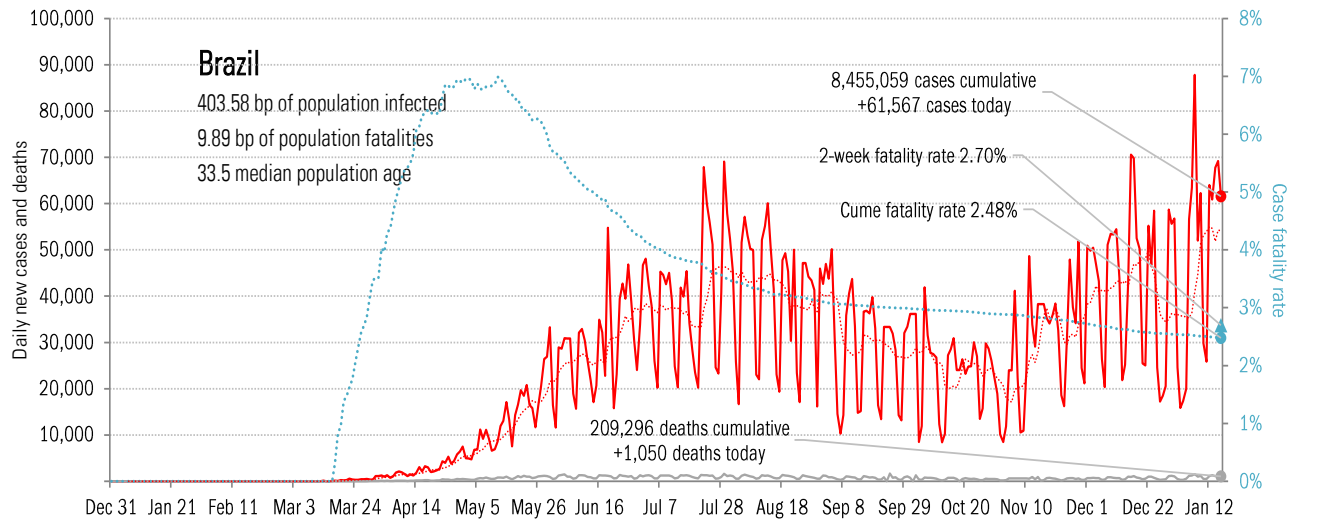
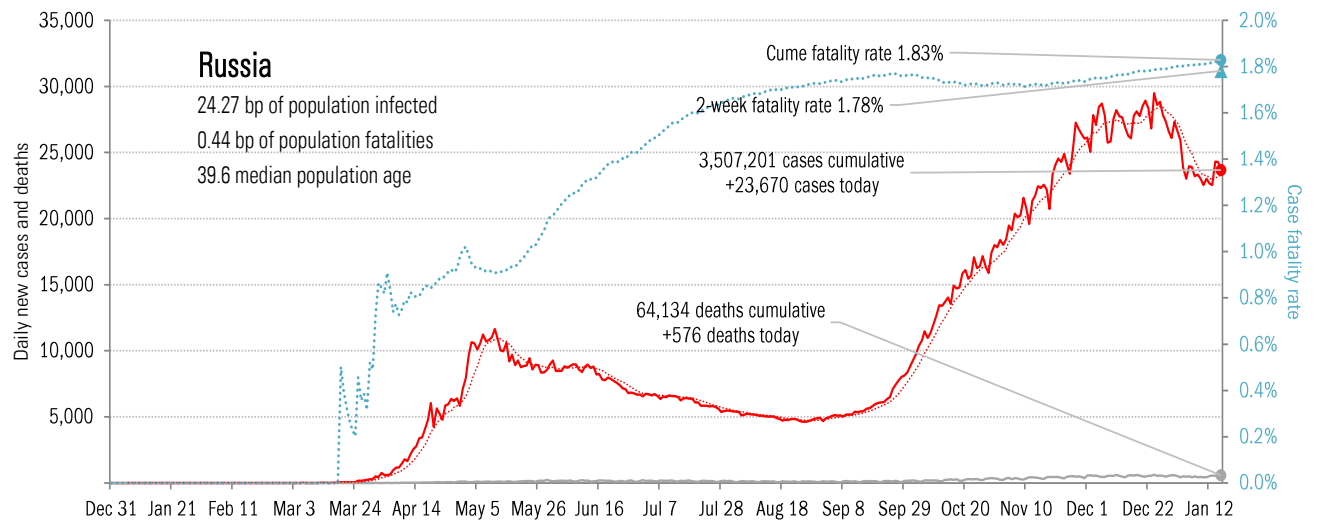
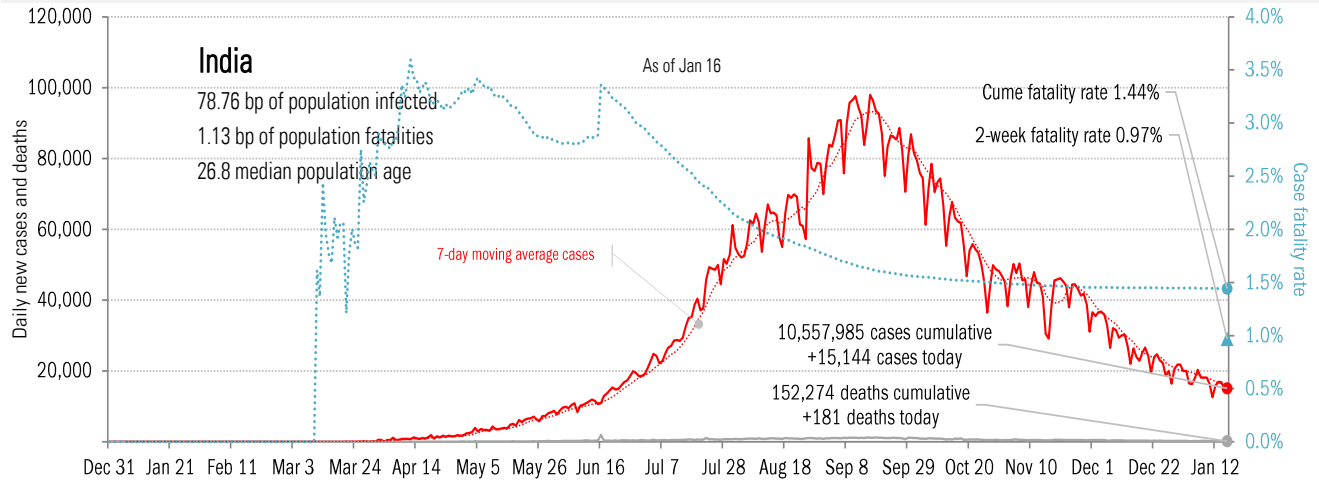
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



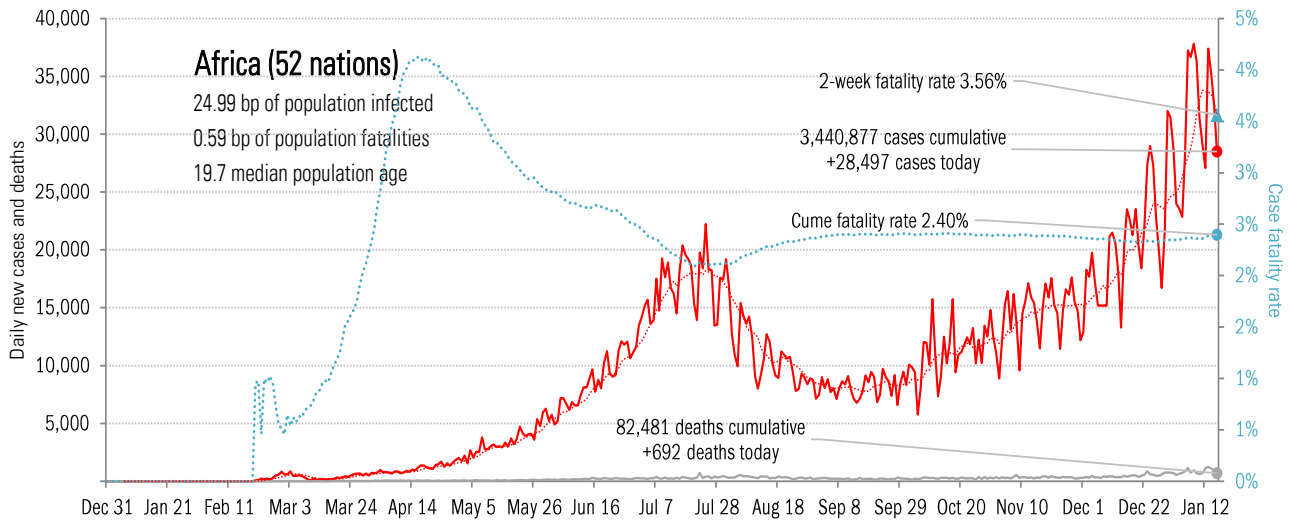
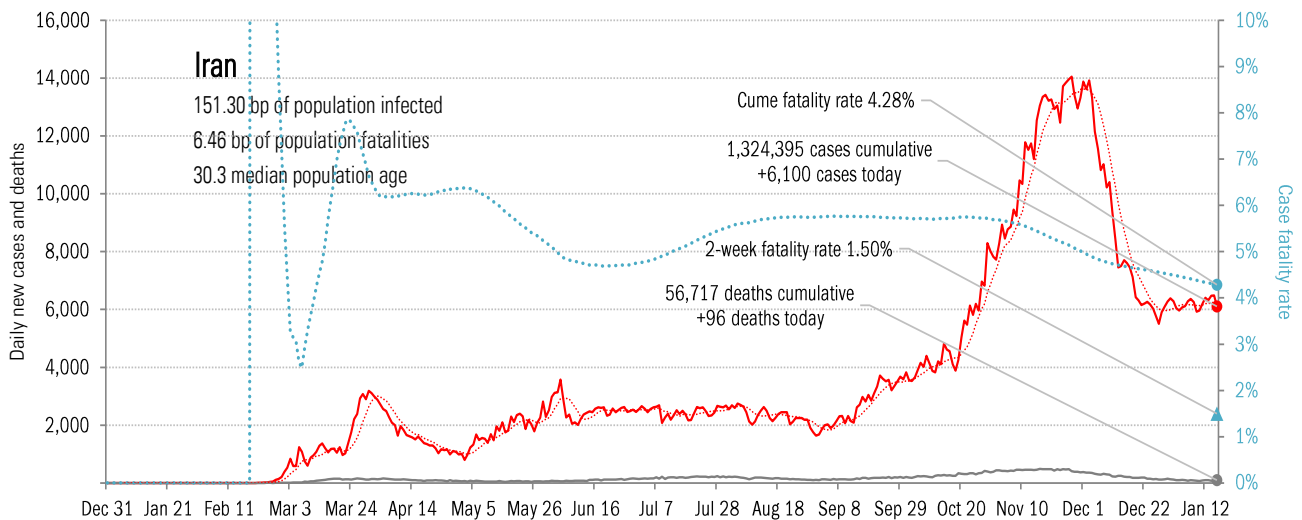
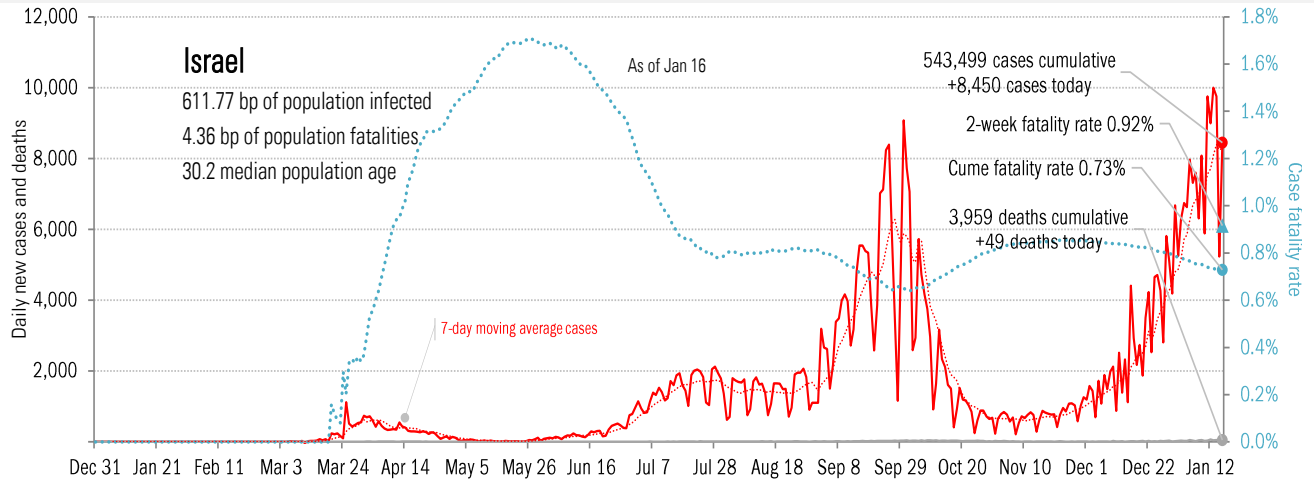
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



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

Impact in the Middle East and Africa



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