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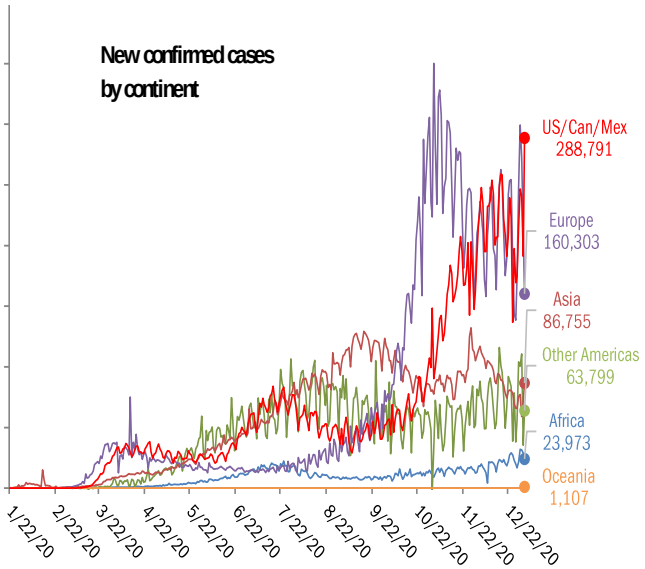
Data Insights: Covid-2019 Monitor

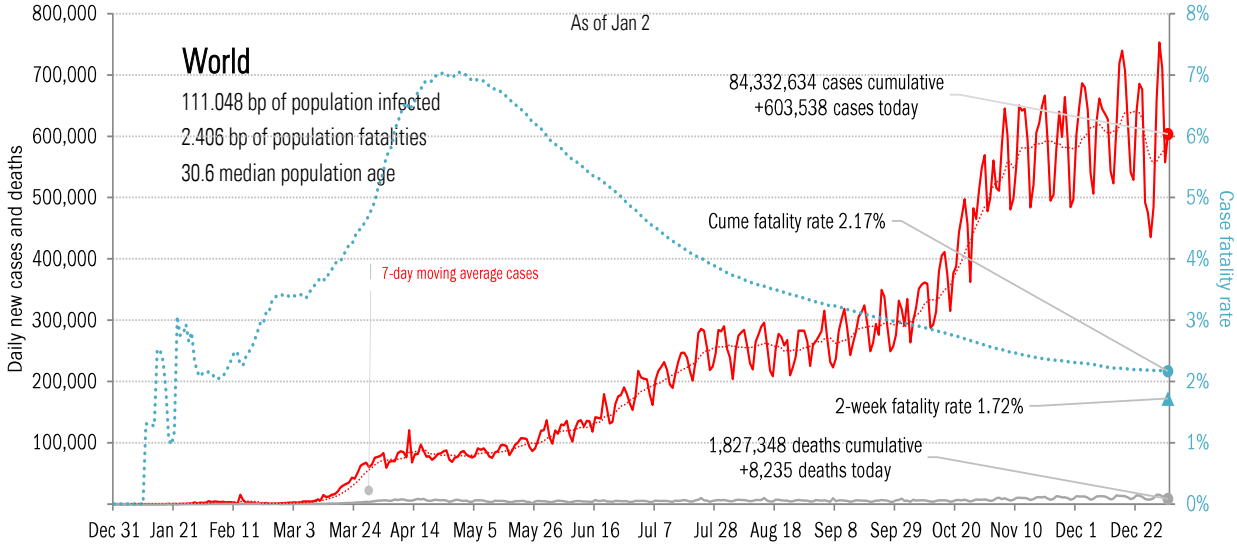
Sunday, January 3, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+277,897	United States	+2,385
United Kingdom	+57,853	United Kingdom	+445
India	+37,256	India	+441
Russia	+25,938	Russia	+437
Brazil	+15,827	Italy	+364
South Africa	+15,002	Mexico	+344
Italy	+11,825	Germany	+335
Colombia	+11,528	Brazil	+314
Turkey	+11,180	South Africa	+288
Germany	+10,903	Colombia	+270
	+475,209		+5,623
World	+603,538	World	+8,235
Top ten	79%	Top ten	68%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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The US scorecard

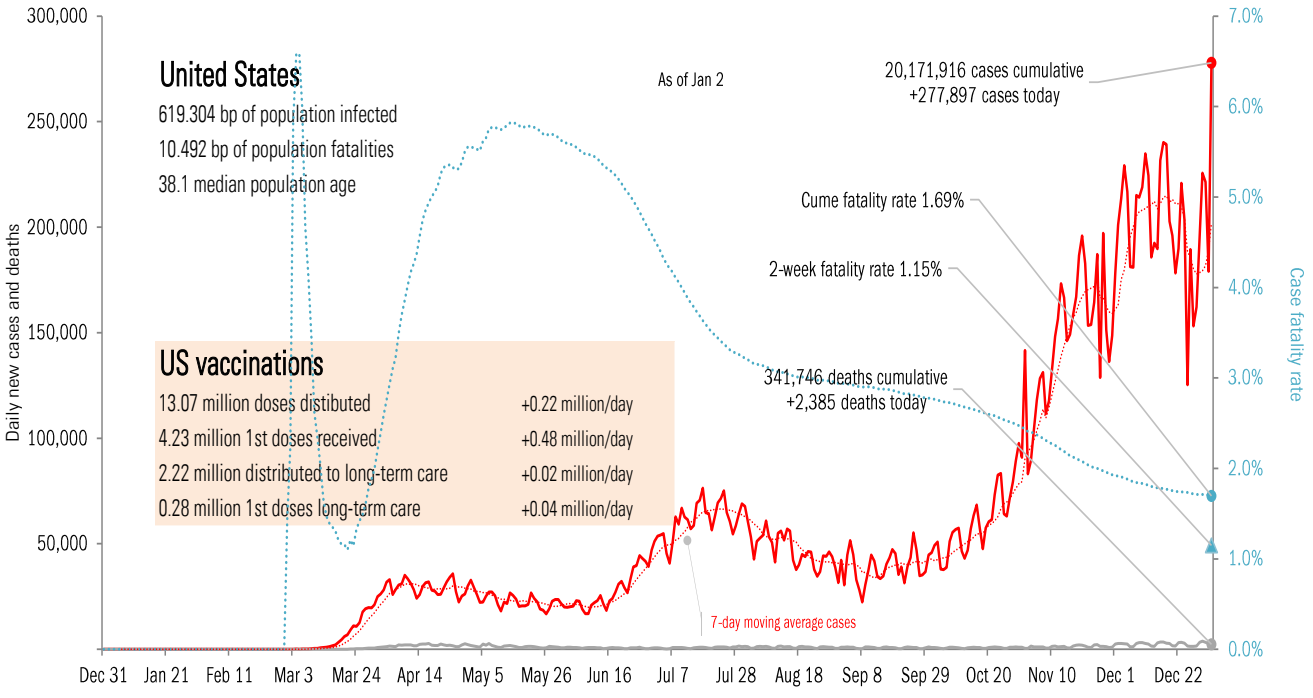
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	+53,341	CA	+386	FL	+247	CA	2,345,909	NY	30,337	NY	89,995	RI	91%	NM	97%
FL	+30,531	MI	+288	GA	+211	TX	1,777,246	TX	27,867	FL	64,029	GA	90%	AL	93%
NC	+18,892	FL	+220	AR	+31	FL	1,331,059	CA	26,357	NJ	48,636	SC	86%	TX	92%
TN	+17,330	NC	+144	MO	+25	NY	1,005,785	FL	22,210	GA	42,427	MD	84%	GA	91%
NY	+15,074	NY	+129	NH	+18	IL	975,352	NJ	19,187	AZ	39,439	NV	82%	OK	89%
OH	+14,293	CT	+104	DC	+11	OH	714,673	IL	18,217	OH	38,633	DC	81%	TN	89%
MI	+9,500	TX	+96	MA	+9	PA	657,292	PA	16,239	IN	35,407	FL	80%	CA	88%
PA	+9,253	SC	+89	NC	+7	TN	604,132	MI	13,306	AL	34,373	AZ	80%	RI	87%
MA	+9,003	MA	+79	ME	+6	GA	581,999	MA	12,502	MD	27,051	CA	80%	NV	86%
AZ	+8,883	KY	+75	WV	+1	NC	558,437	GA	10,960	MN	21,984	NC	79%	NC	85%
	+186,100		+1,610		+566		10,551,884		197,182		441,974				
All states	+277,897		+2,385		-1433	All states	20,171,916		341,746		693,716	All states	74%		79%
Top ten	67%		68%		-39%	Top ten	52%		58%		64%	Median	73%		75%

Some states not reporting

Five most improved US states

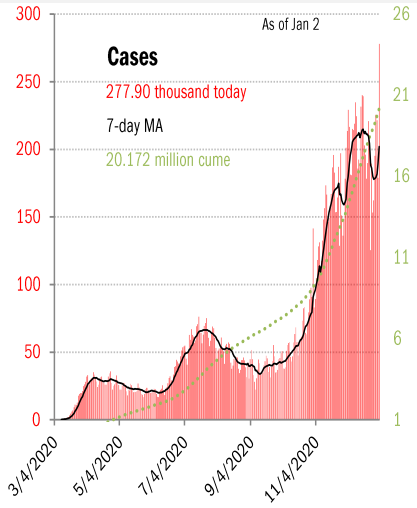
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TX	-11,548	TX	-238	TX	-375	MI	+45,222
KS	-5,312	PA	-211	OH	-265	PA	+24,514
WA	-4,422	CA	-199	CA	-204	OH	+17,535
MO	-2,572	IL	-151	NM	-117	TN	+14,175
IL	-2,439	KS	-138	PA	-111	TX	+7,897

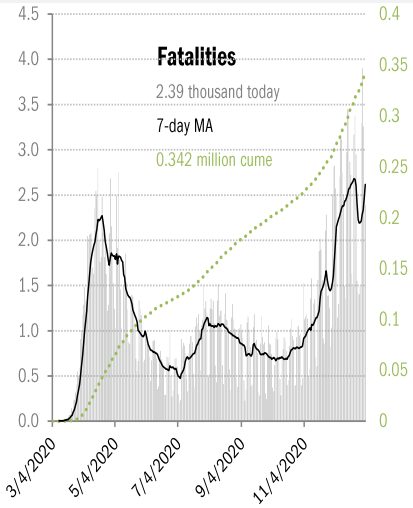


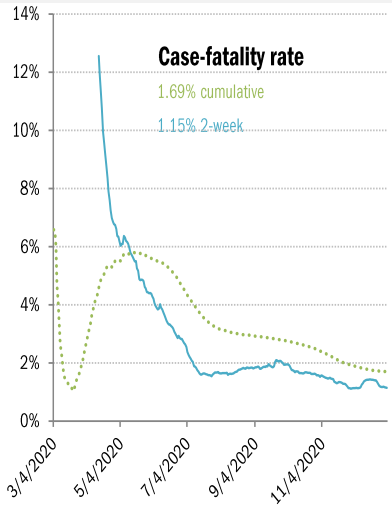
Source: Covid Tracking Project, Dept. of Health and Human Services, CDC, TrendMacro calculations

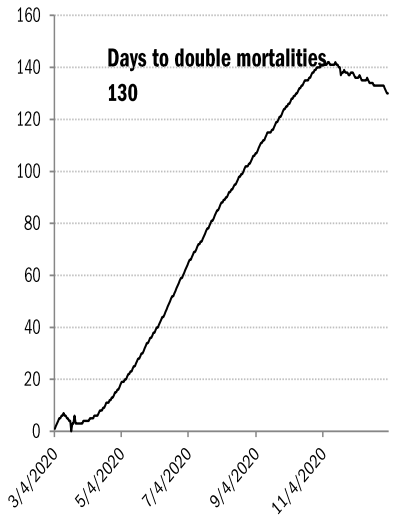
US deep-dive

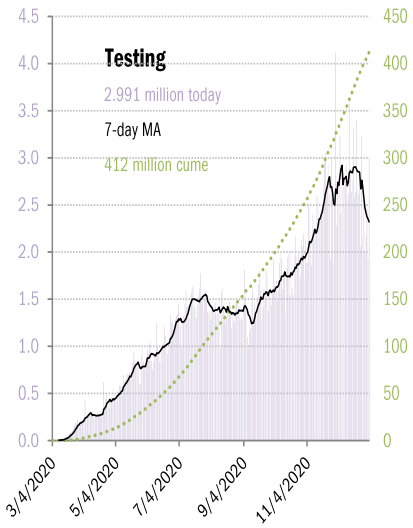
National and state-by-state data do not line up because of different sources

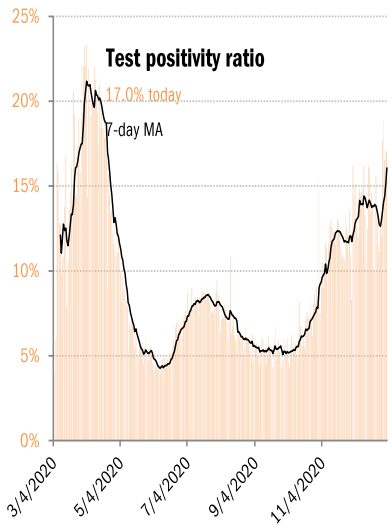


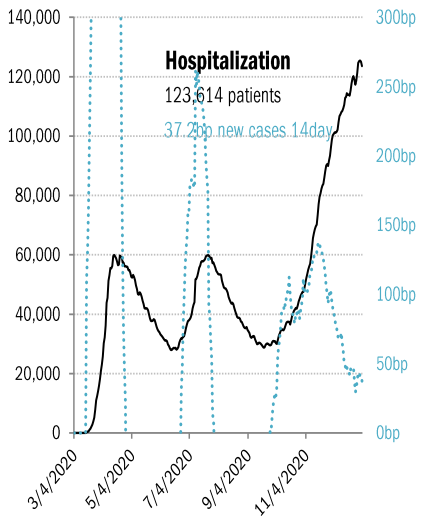


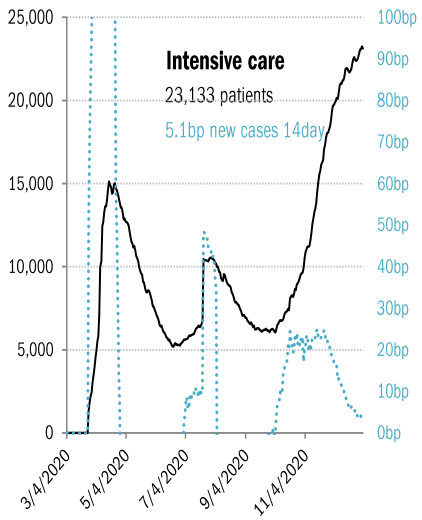


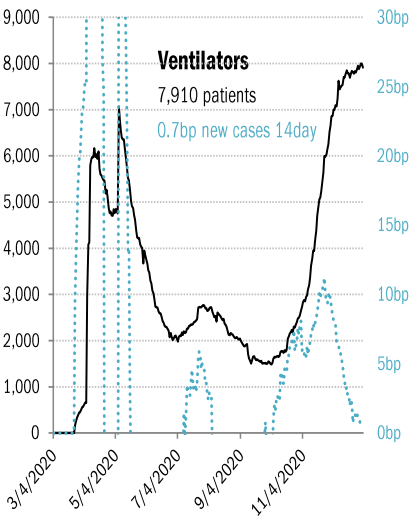






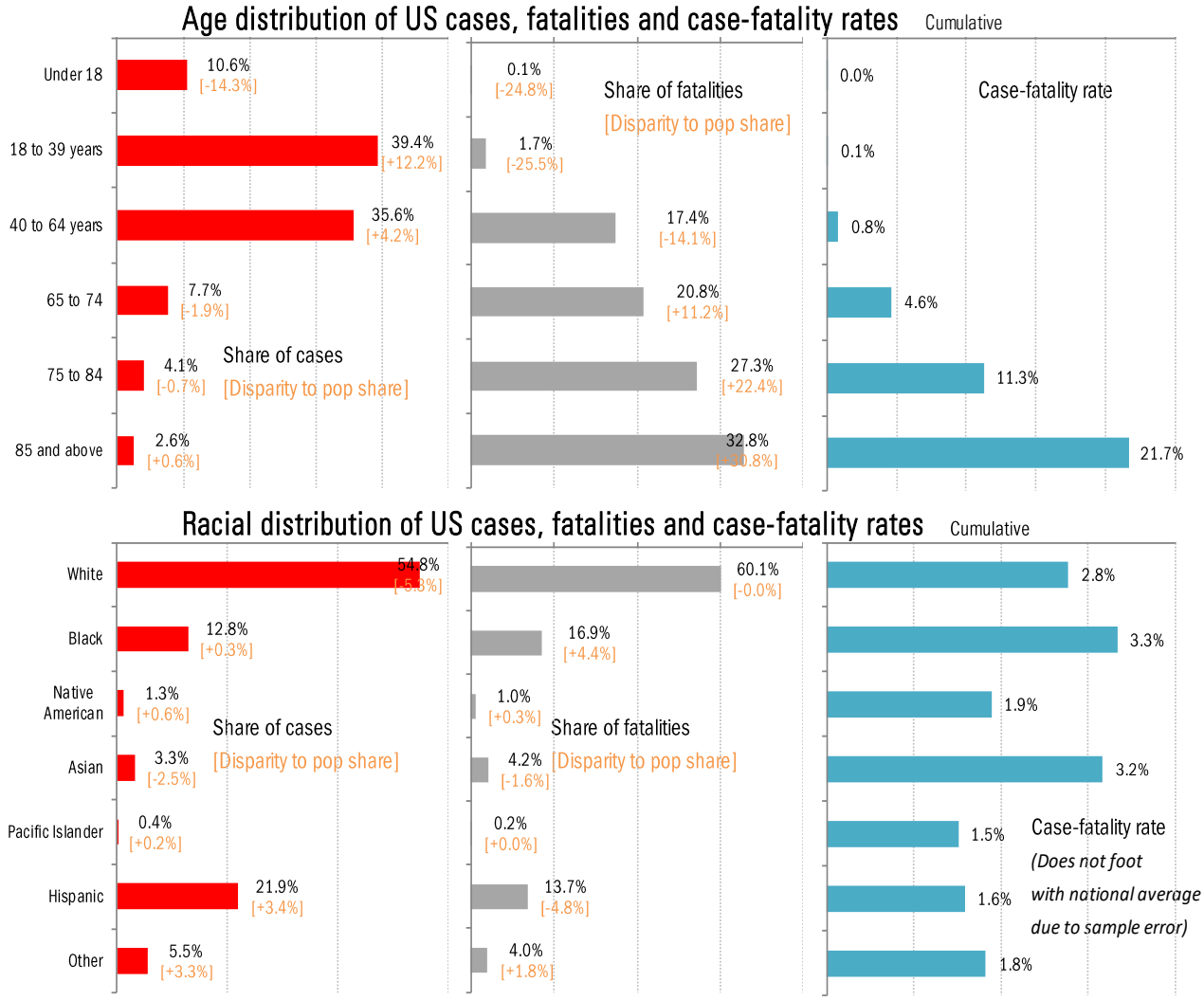




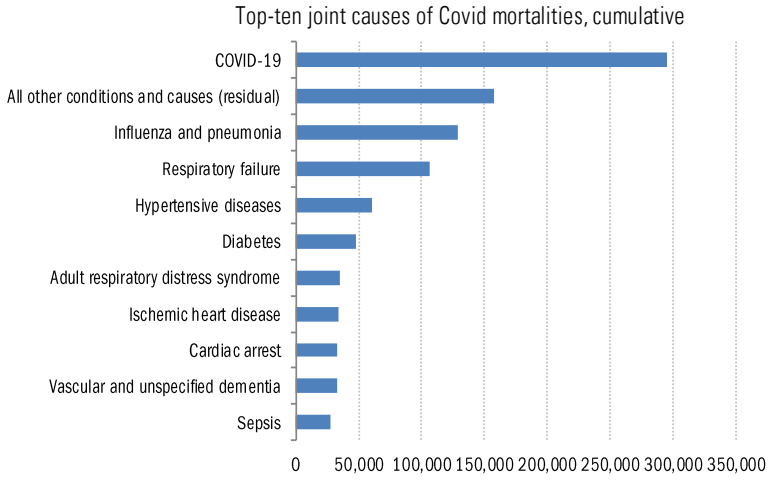


Source: Covid Tracking Project, TrendMacro calculations

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



Comorbidites



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

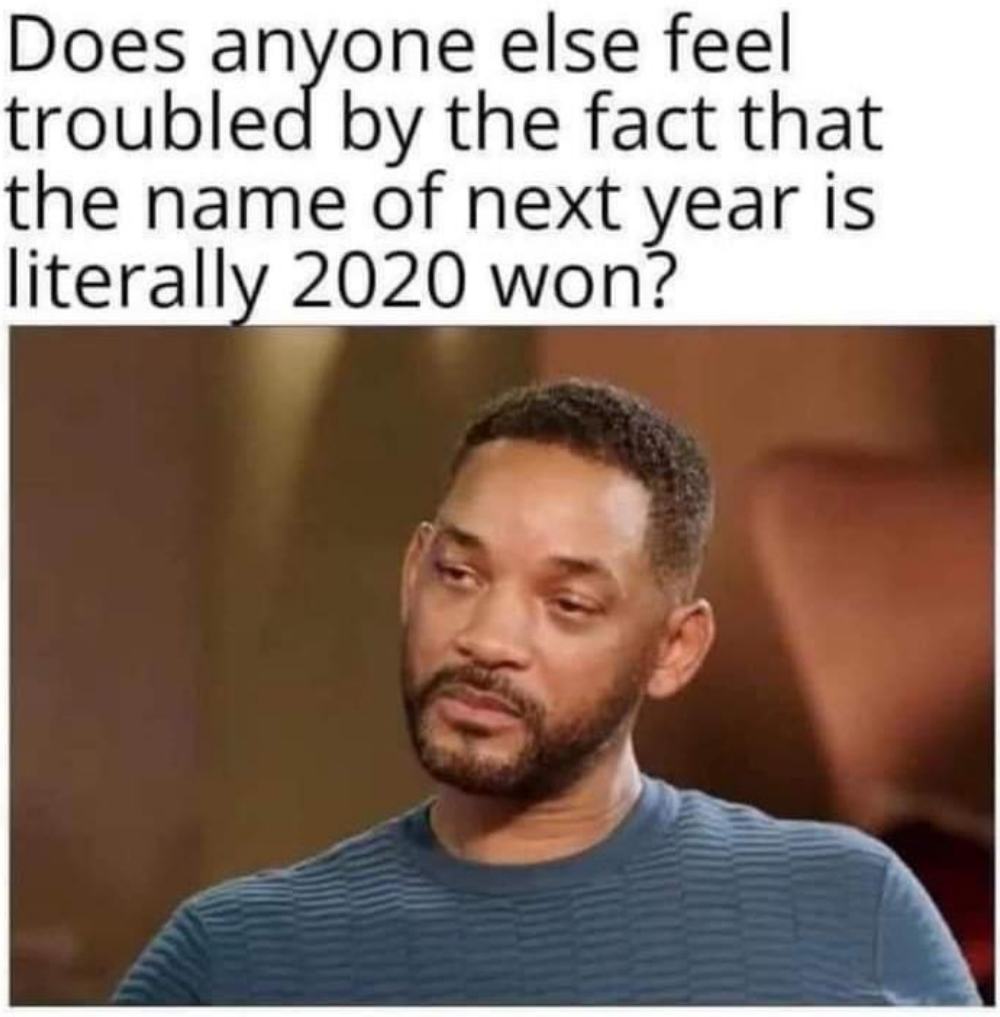
A Case Study in Media Bias
Steven Hayward
Power Line Blog
January 2, 2020

A Covid-19 Relief Fund Was Only for Black Residents. Then Came the Lawsuits.
John Eligon
New York Times
January 3, 2020

India Grants Emergency Approval to Astra-Oxford Covid-19 Vaccine
Chris Kay and Ragini Saxena
Bloomberg
January 2, 2020

UK draws up plans to mix coronavirus vaccines
Donato Paolo and Sarah Neville
Financial Times
January 2, 2020

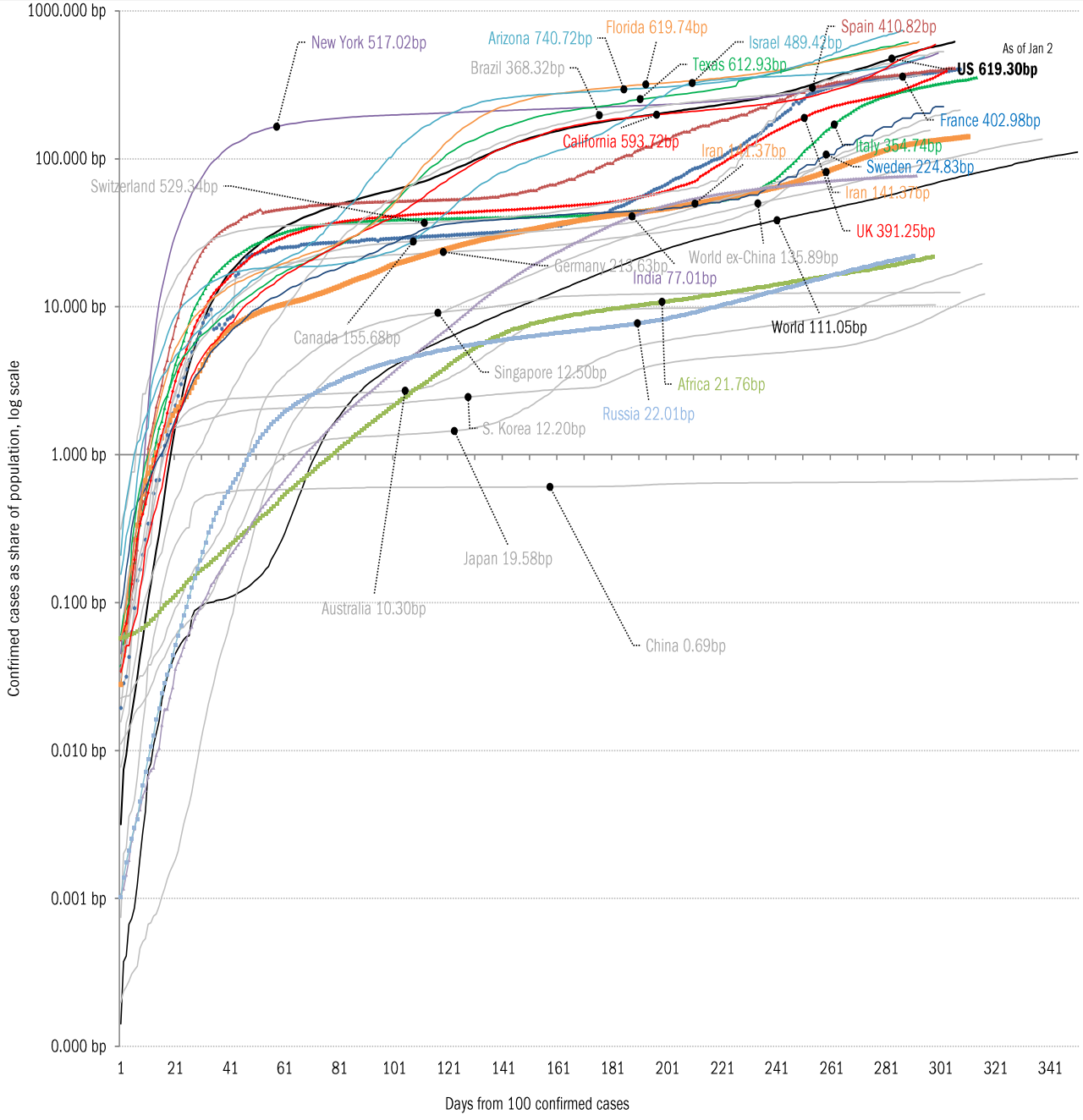
Meme of day



Source: Our beloved clients, and Power Line blog "The Week in Pictures"

The coronavirus case accelerometer… tracking the world's infection curves

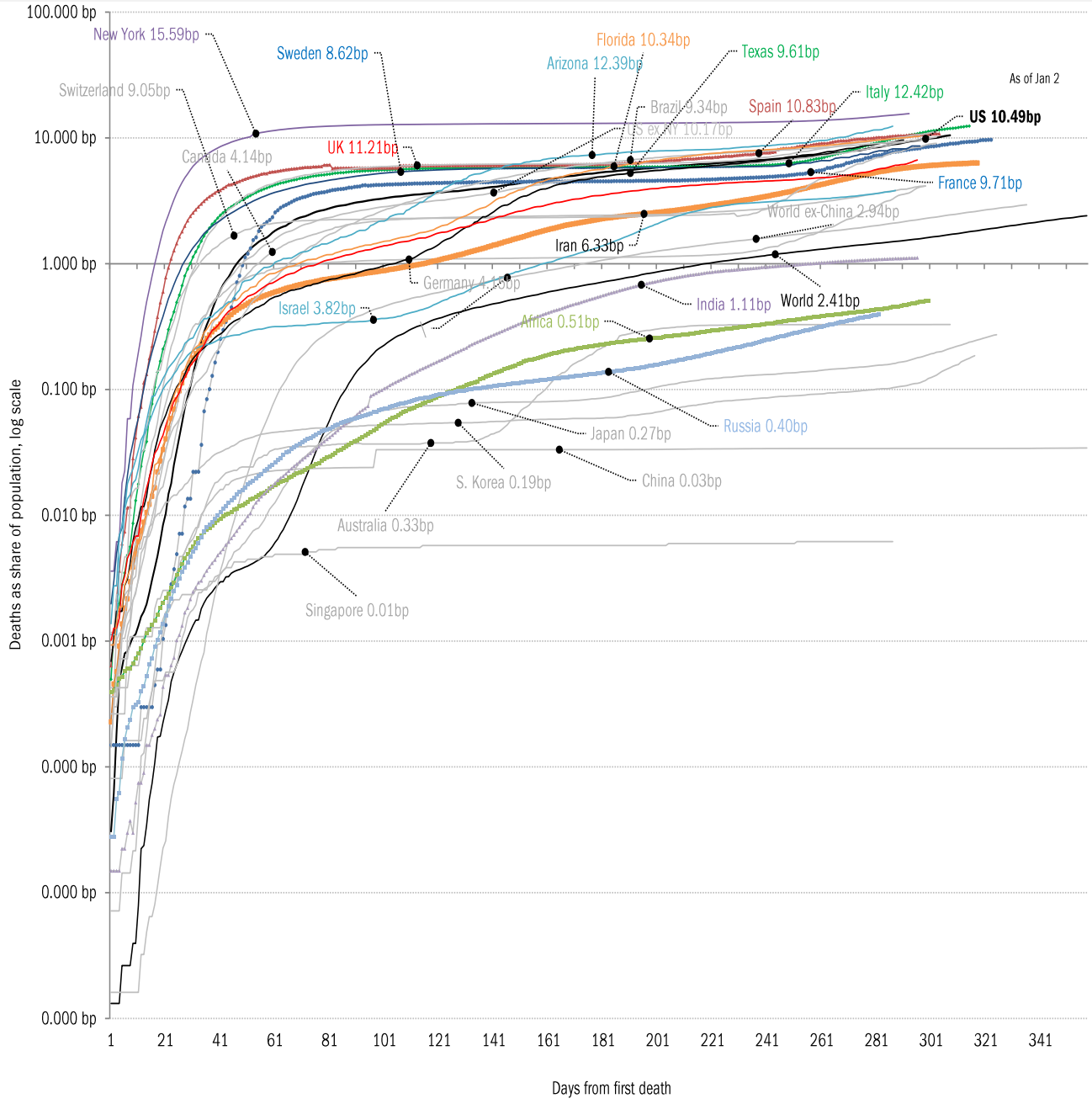
Share of infected population from first day with 100 confirmed cases, log scale



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

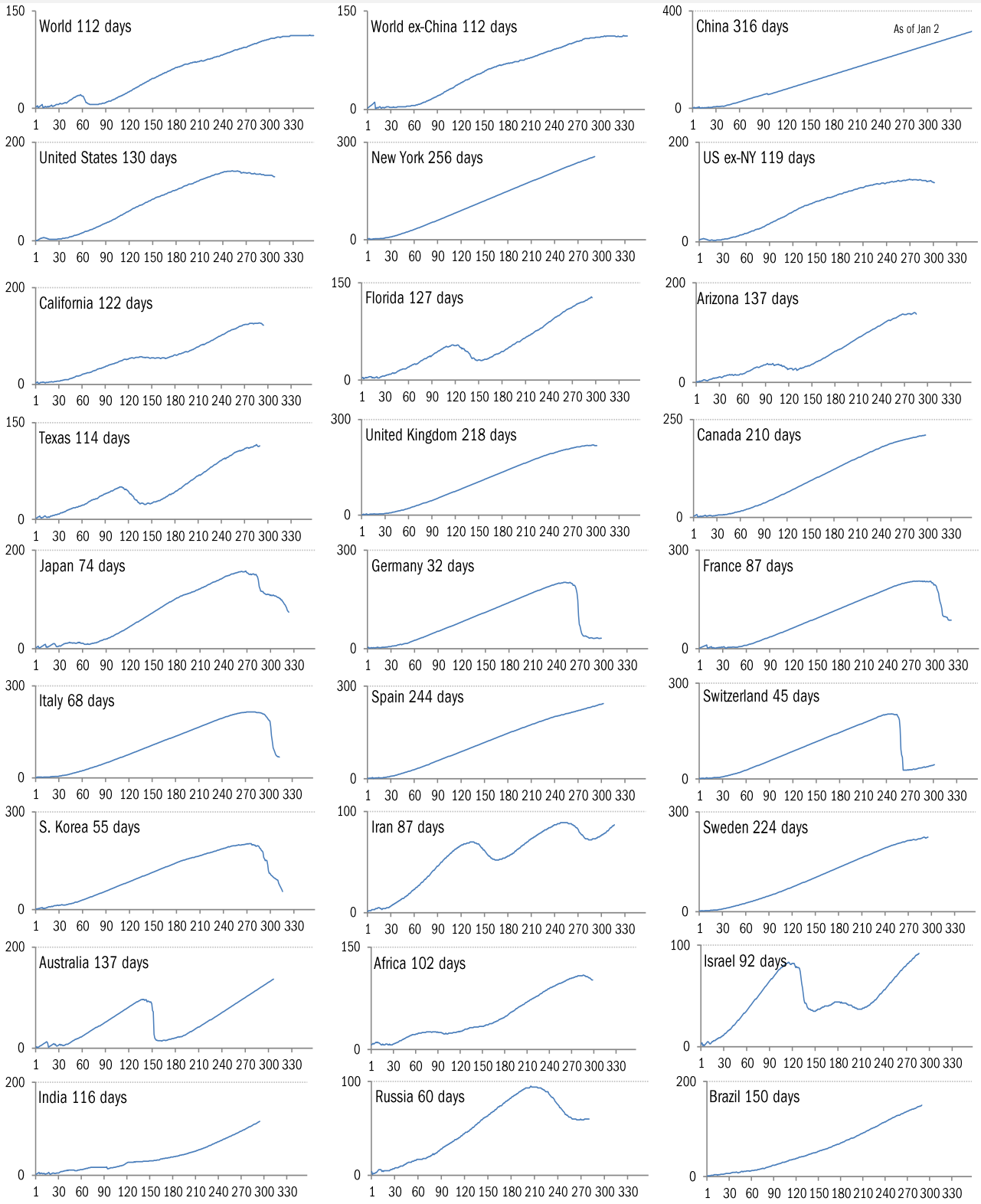


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

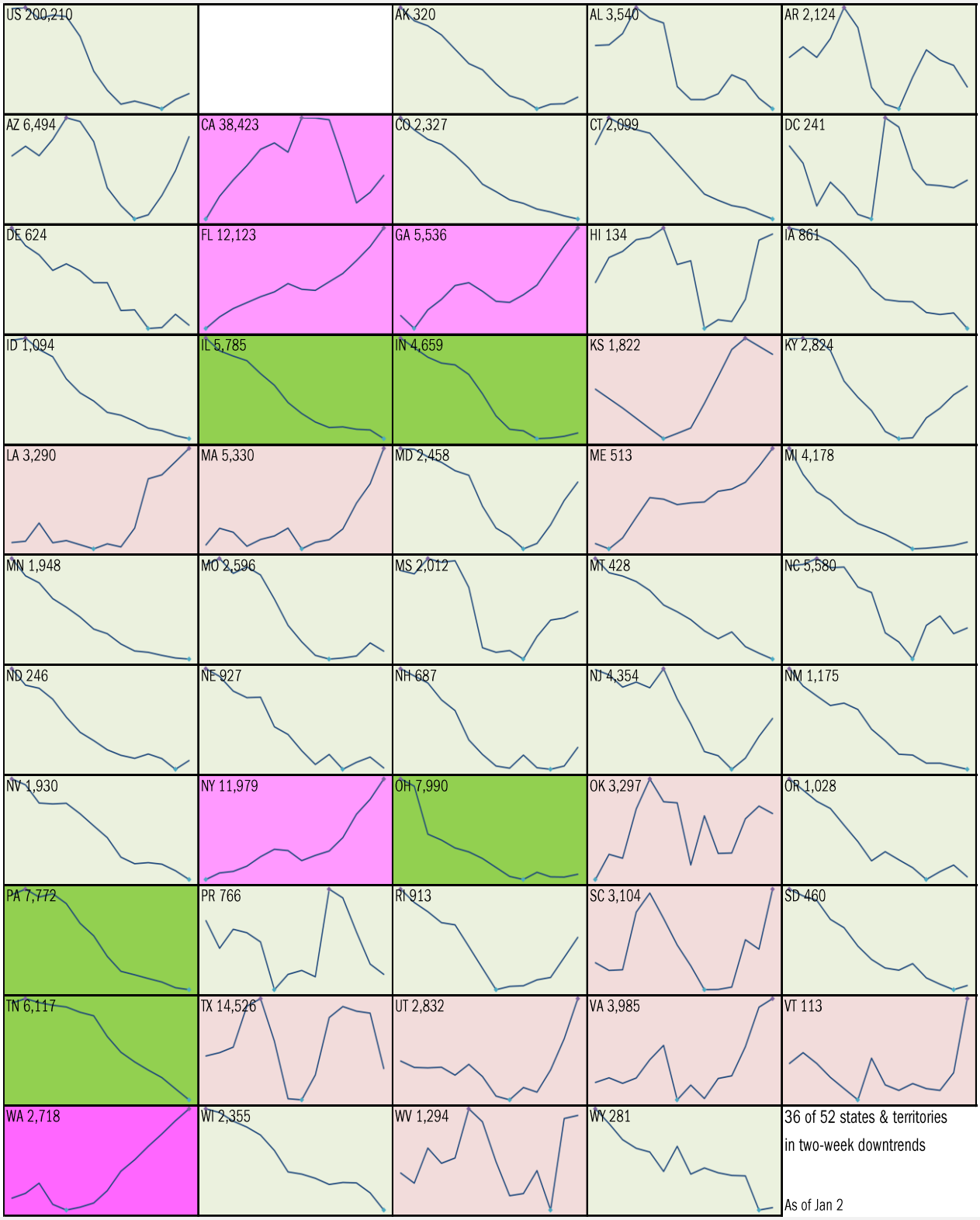


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

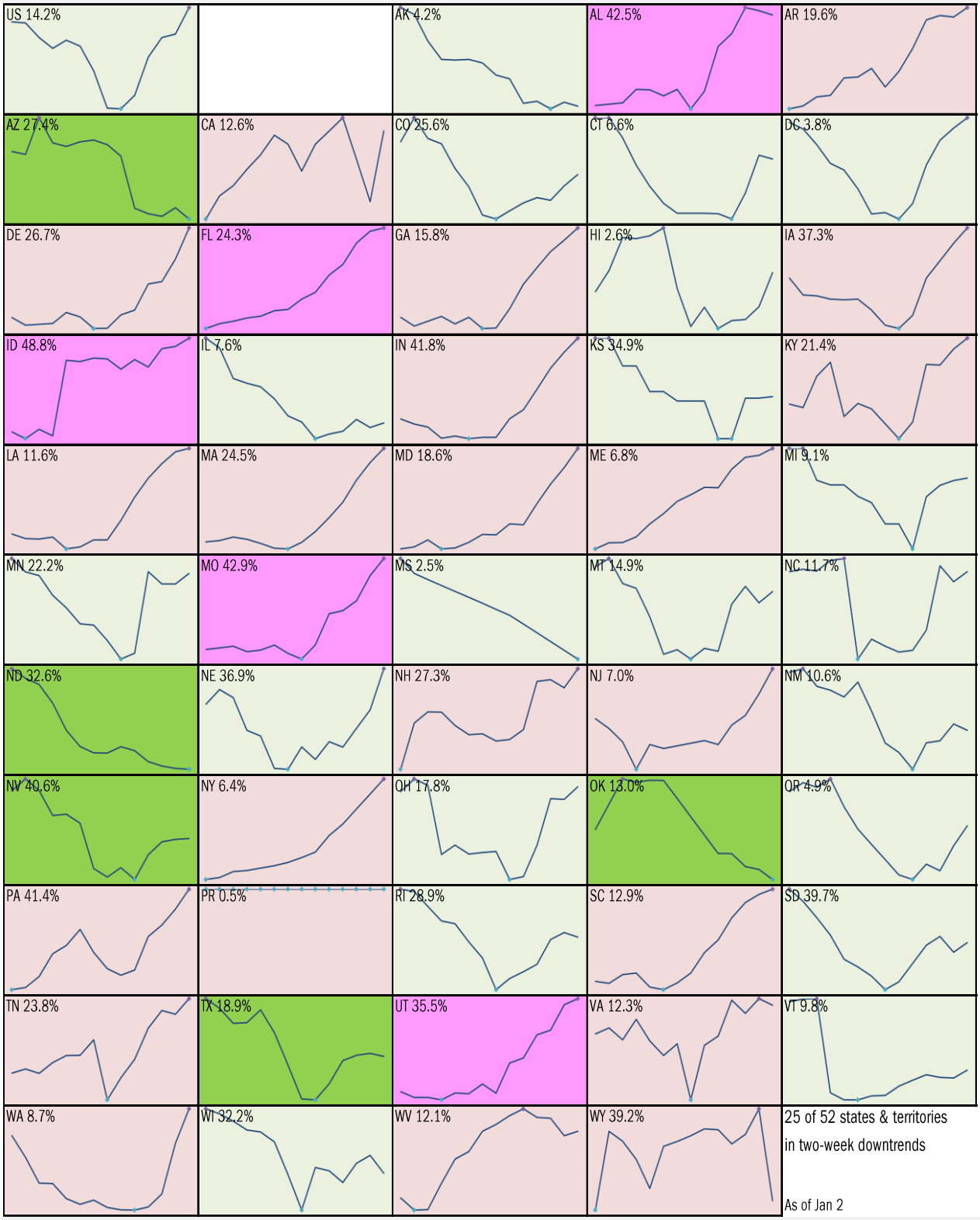


Source: Covid Tracking Project, TrendMacro calculations

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

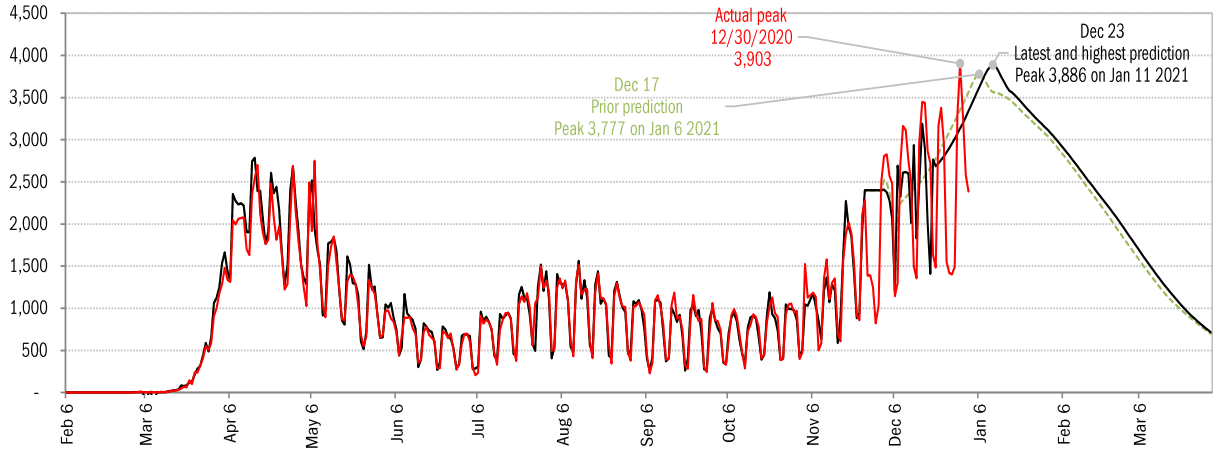


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

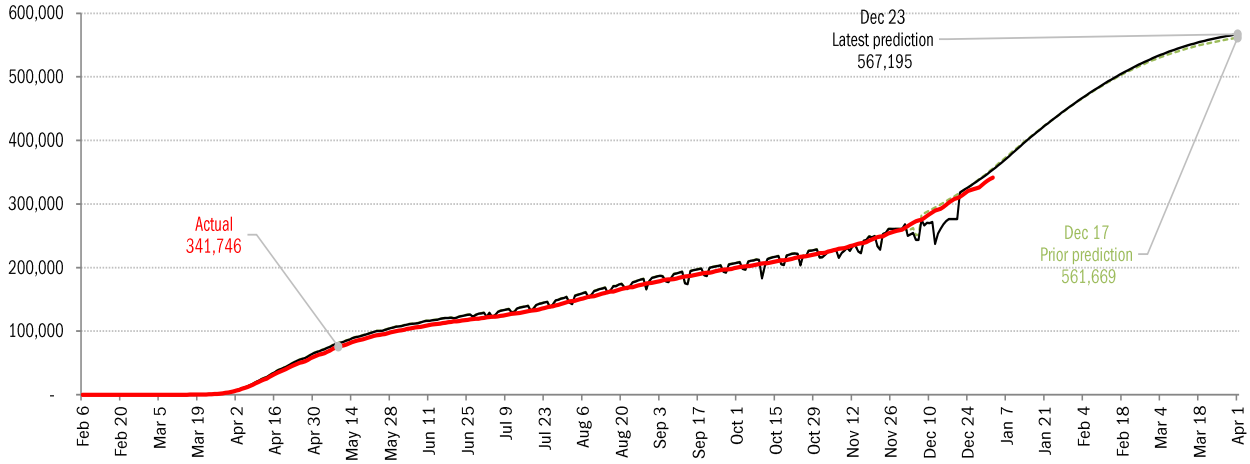
New daily fatalities As of Jan 2

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

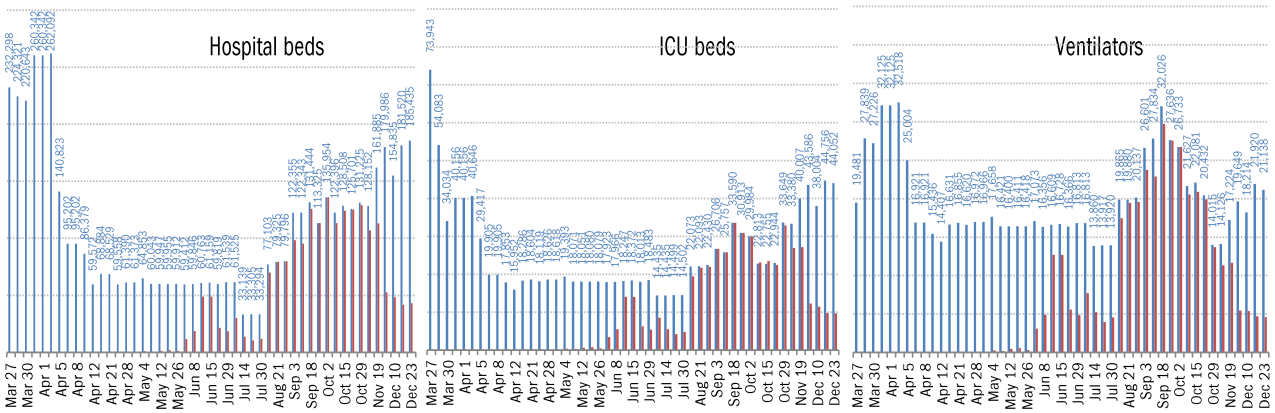


Cumulative fatalities

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

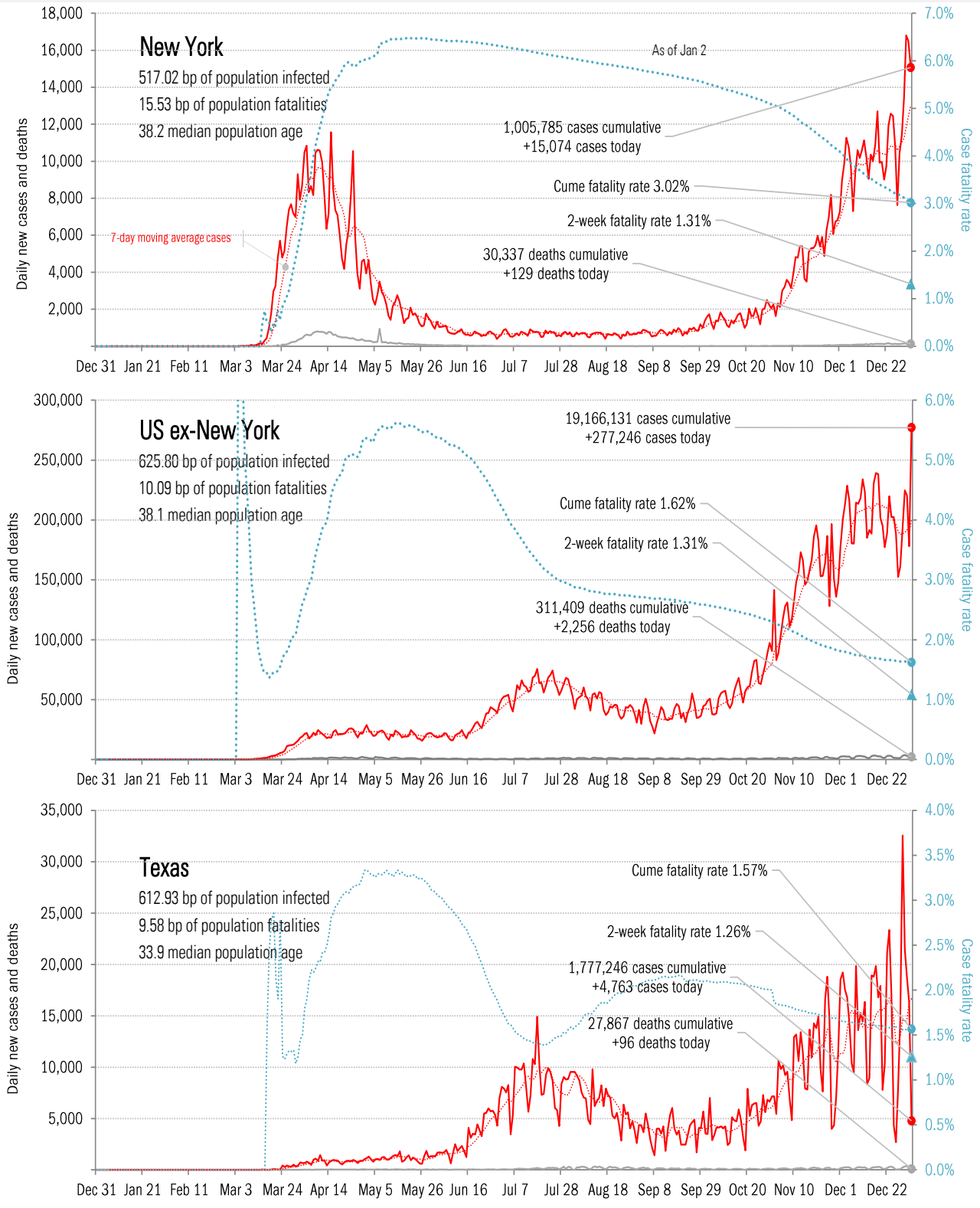


Healthcare system stress, peak and ultimate estimated at each model revision



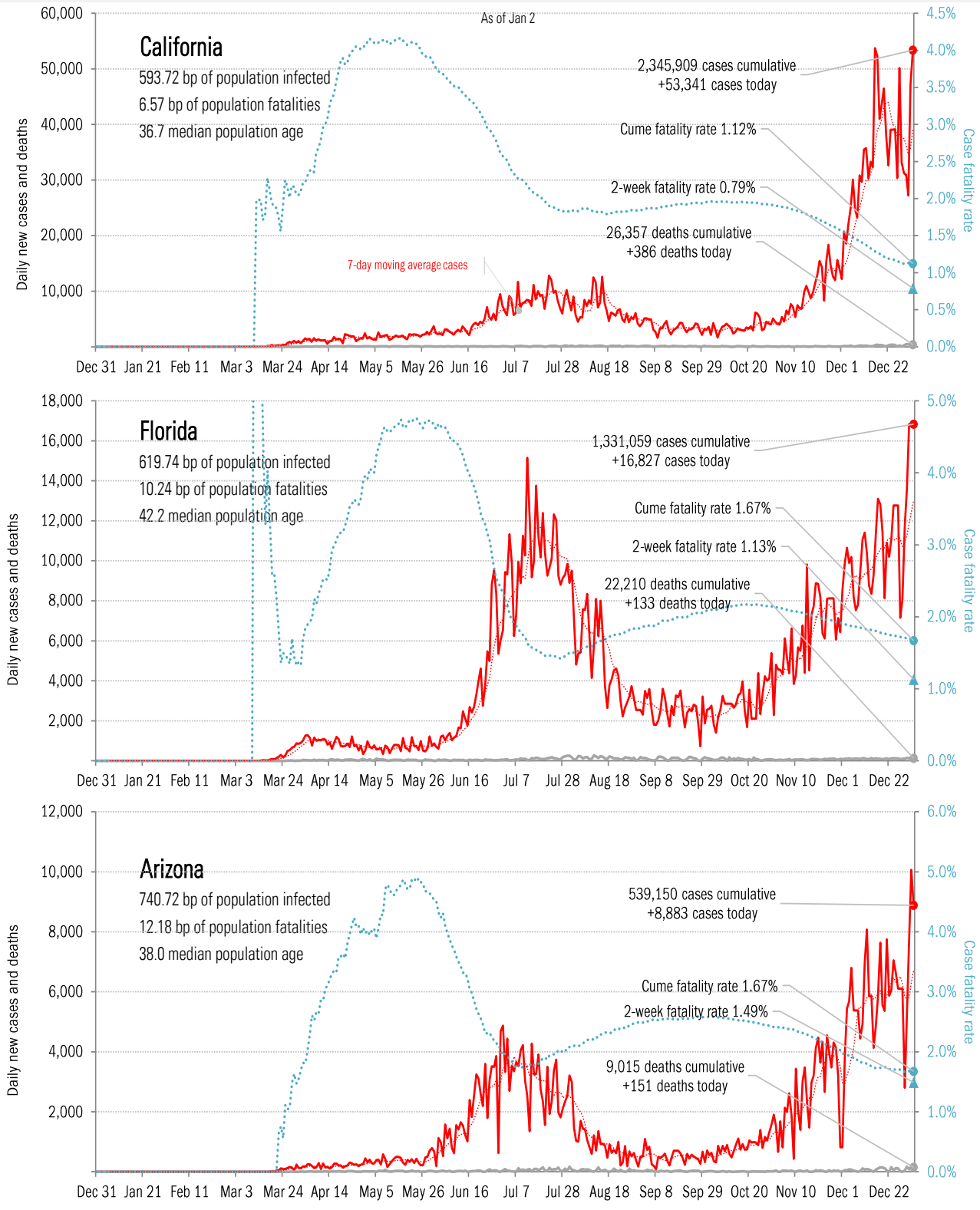
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



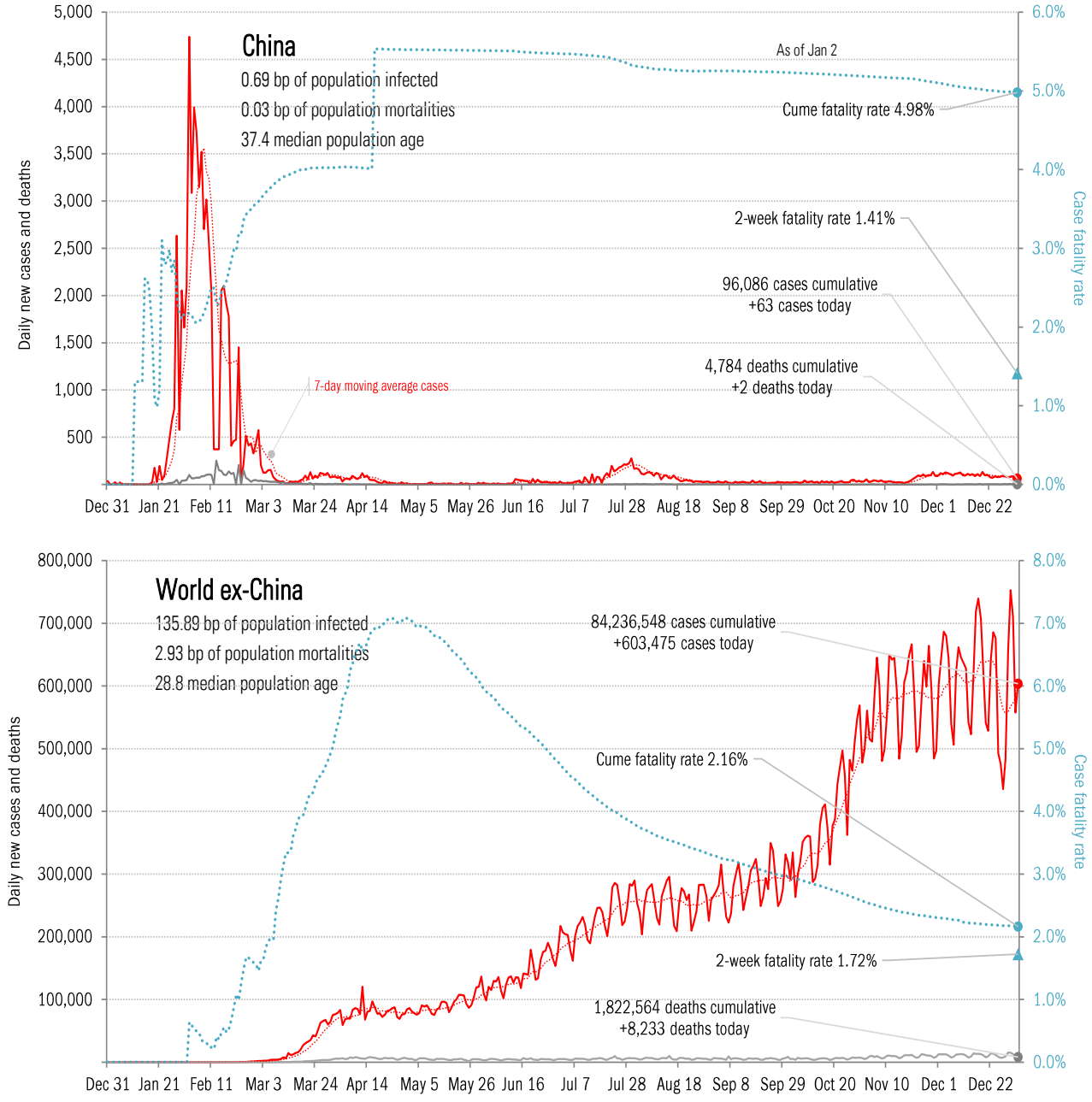
Source: Covid Tracking Project,, TrendMacro calculations

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



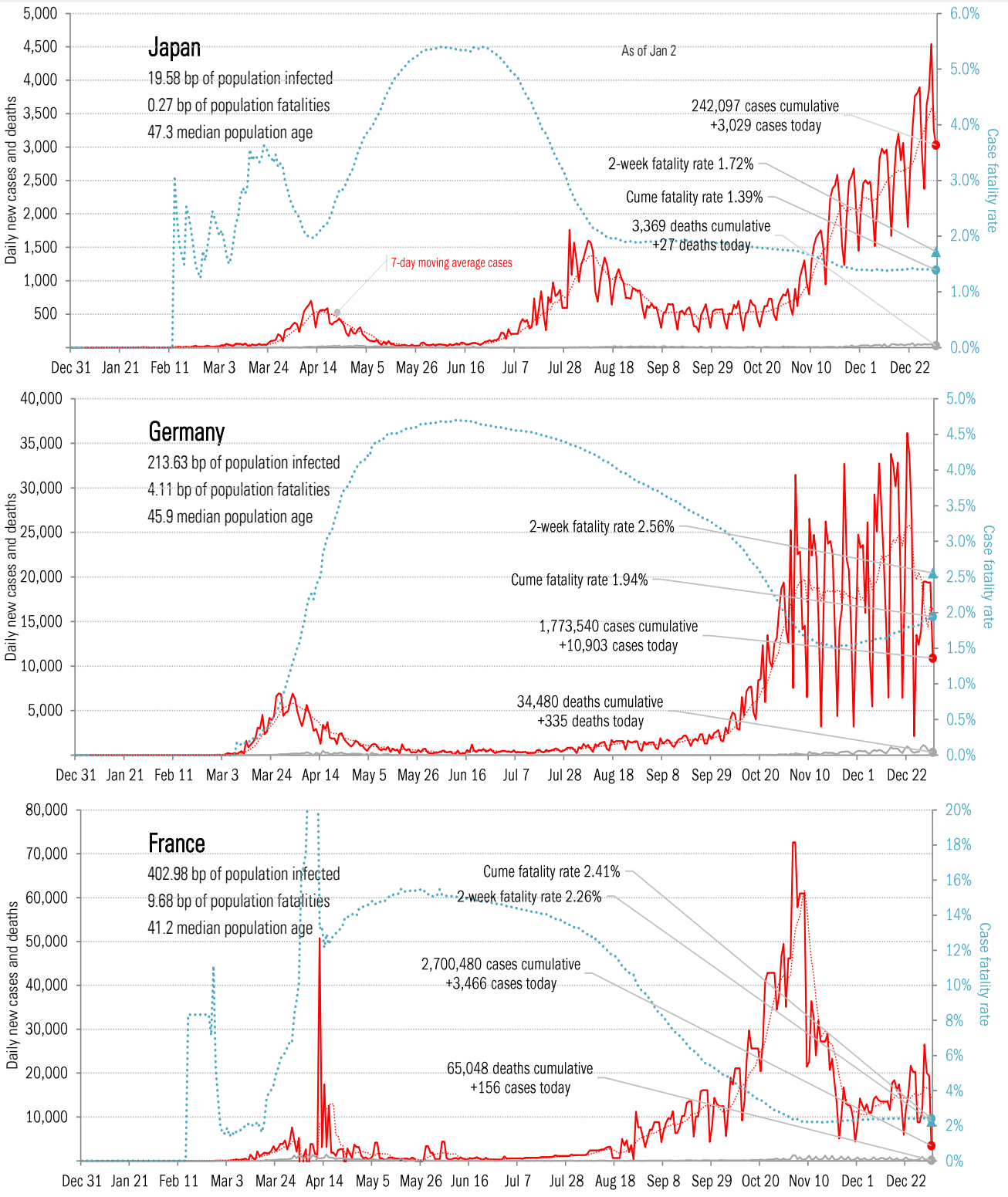
Source: Covid Tracking Project,, TrendMacro calculations

Patient zero… and then everyone else



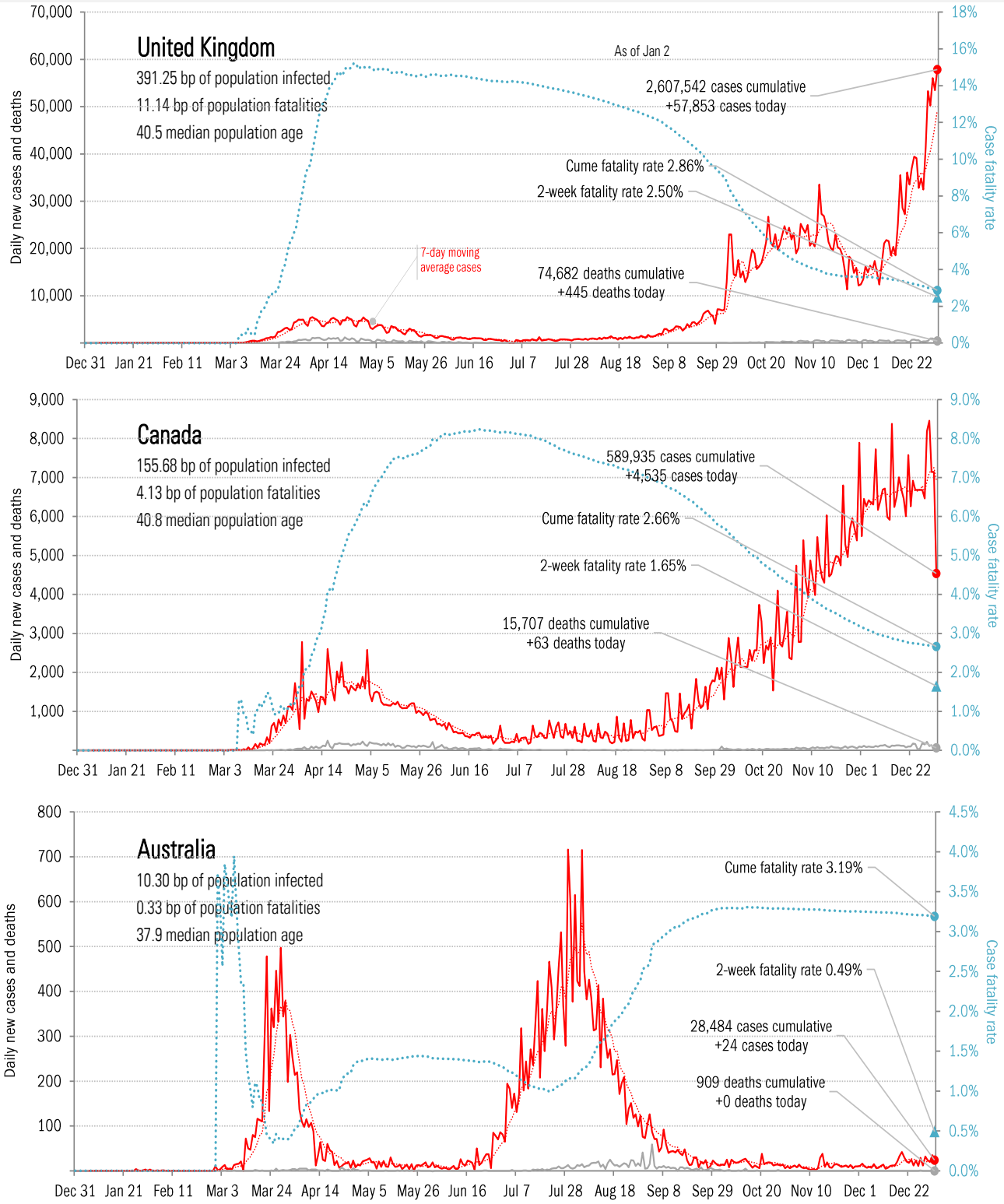
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



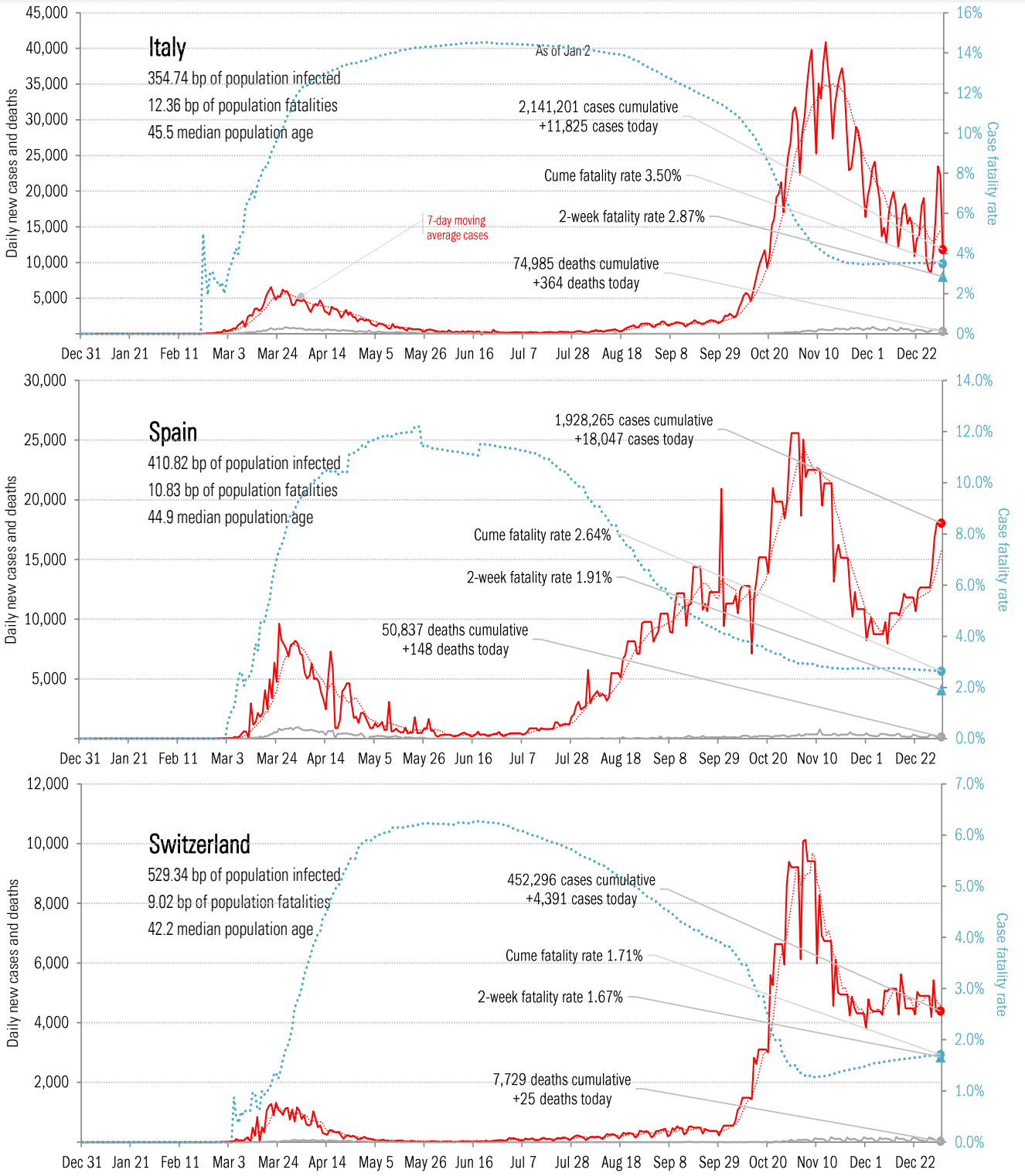
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



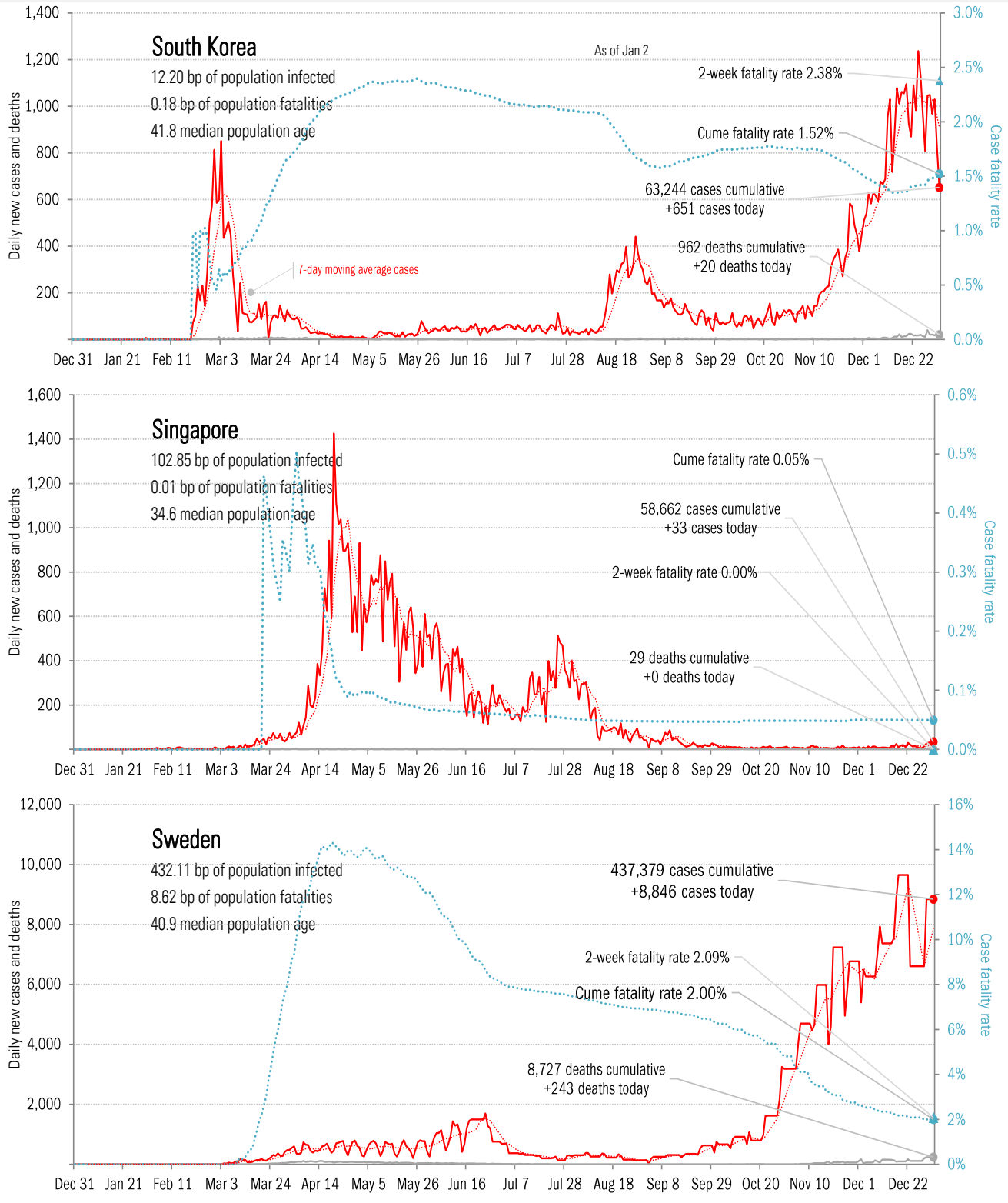
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



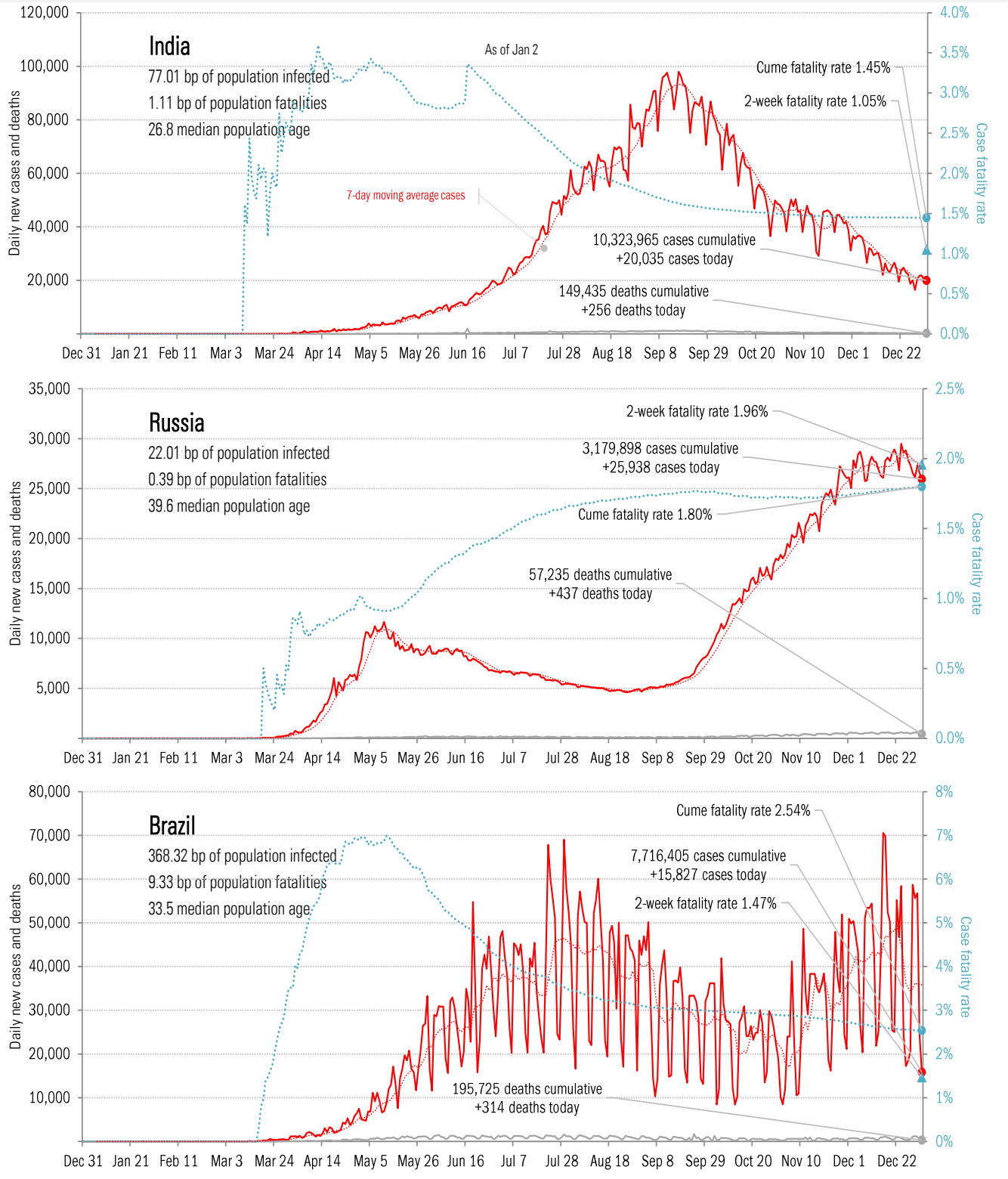
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



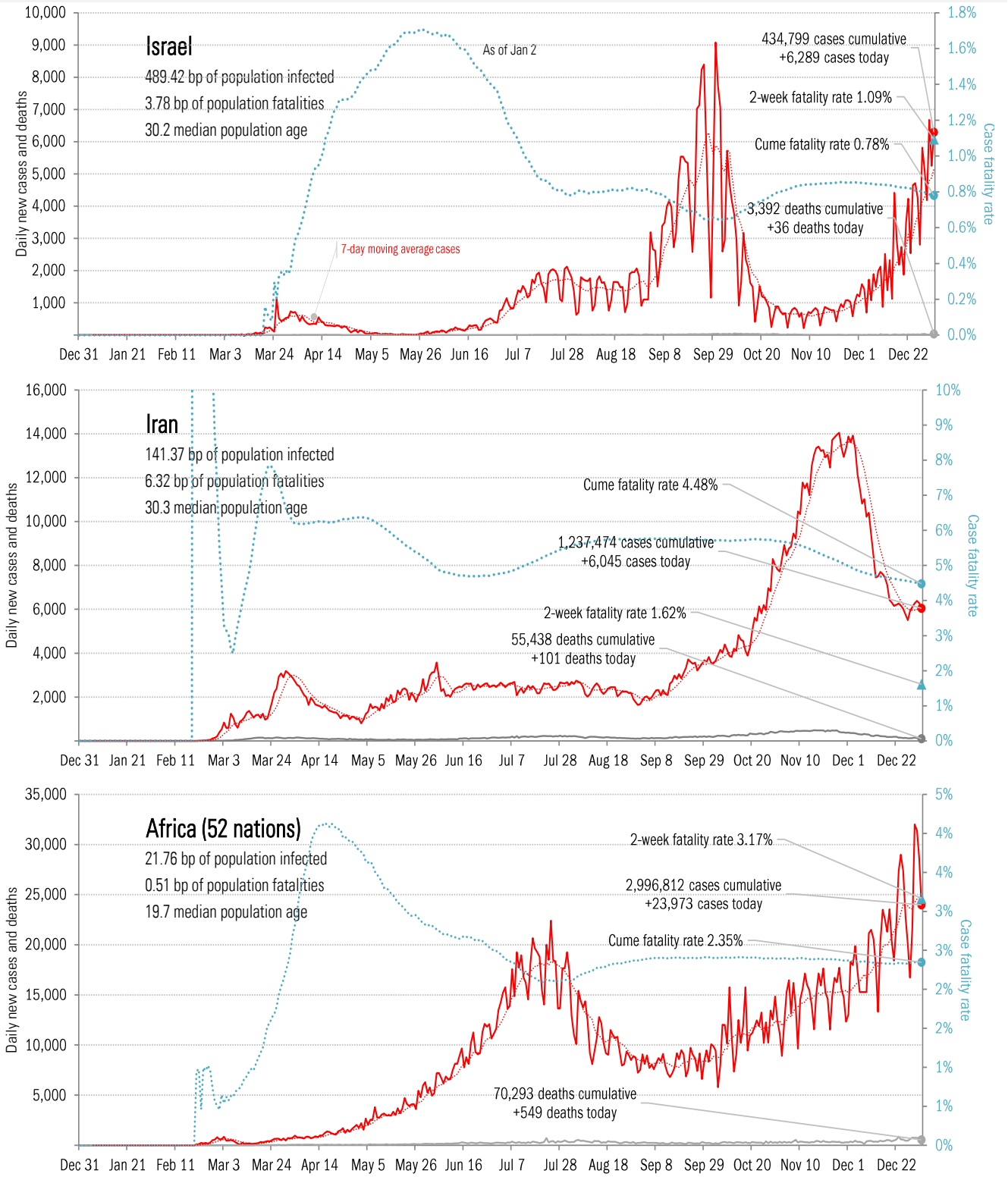
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations