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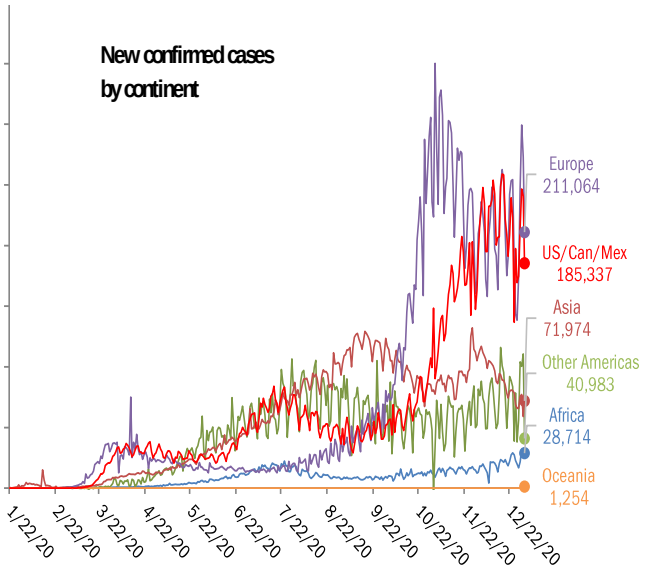
Data Insights: Covid-2019 Monitor

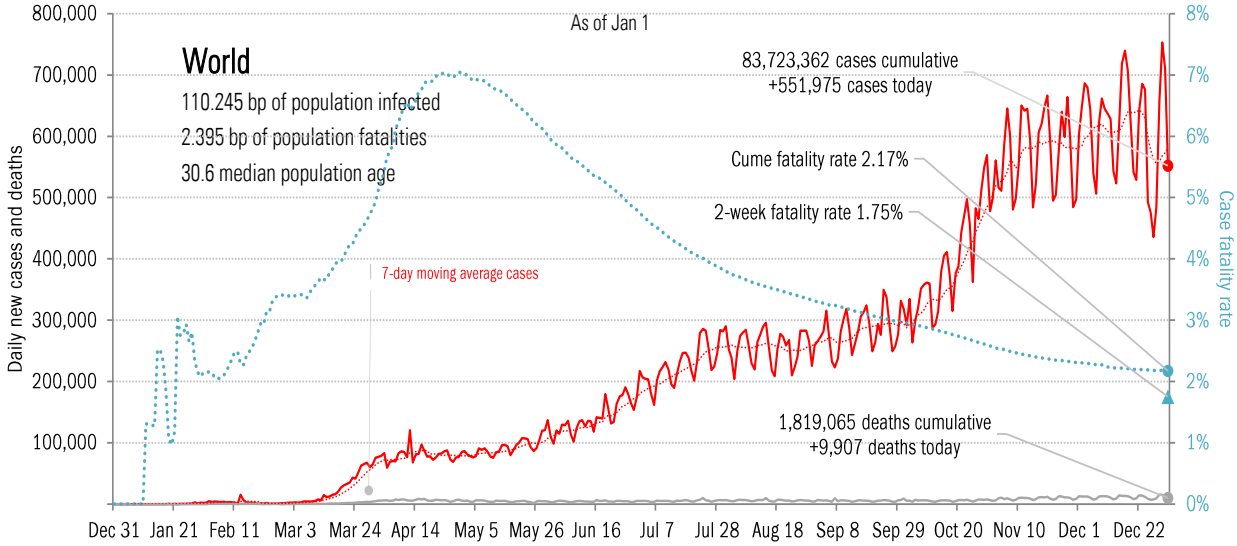
Saturday, January 2, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+173,255	United States	+2,534
United Kingdom	+53,458	Mexico	+700
Russia	+26,613	United Kingdom	+615
Brazil	+24,605	Russia	+527
Italy	+22,210	Brazil	+462
India	+20,035	Italy	+462
France	+19,348	South Africa	+418
South Africa	+16,726	Poland	+402
Czechia	+13,361	Germany	+354
Turkey	+12,203	Colombia	+282
	+381,814		+6,756
World	+551,975	World	+9,907
Top ten	69%	Top ten	68%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

For more information contact us:
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The US scorecard

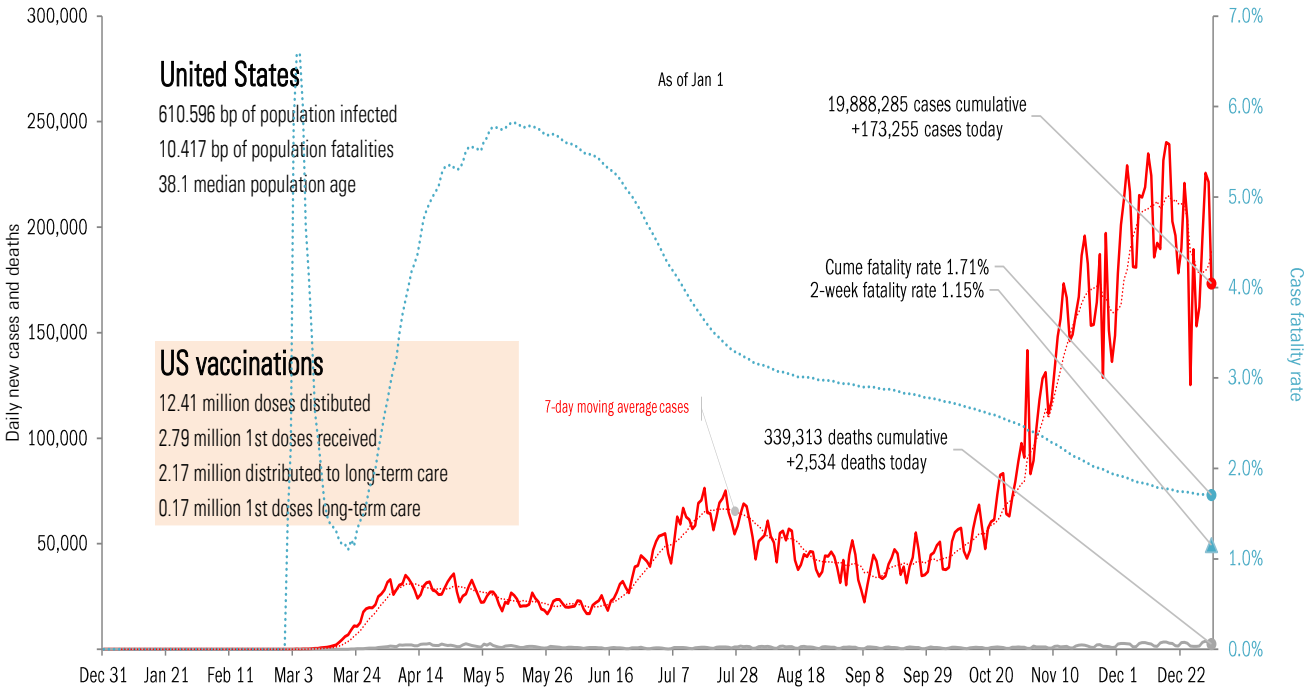
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	+47,189	CA	+585	TX	+213	CA	2,292,568	NY	30,208	NY	89,995	RI	91%	NM	97%
NY	+16,497	TX	+334	FL	+91	TX	1,772,483	TX	27,771	FL	63,741	GA	90%	AL	93%
TX	+16,311	PA	+236	KS	+58	FL	1,300,528	CA	25,971	NJ	48,572	SC	86%	TX	92%
AZ	+10,060	IL	+195	WA	+50	NY	990,711	FL	21,990	GA	42,362	MD	84%	GA	91%
GA	+8,719	NY	+168	VA	+10	IL	970,590	NJ	19,160	AZ	38,846	NV	82%	OK	89%
PA	+7,714	AZ	+151	WV	+8	OH	700,380	IL	18,173	OH	38,334	DC	81%	TN	89%
IL	+7,201	KS	+138	ME	+5	PA	648,039	PA	16,214	IN	35,210	FL	80%	CA	88%
IN	+6,288	NJ	+118	MO	+2	TN	586,802	MI	13,018	AL	34,373	AZ	80%	RI	87%
NJ	+5,501	IN	+108	DE	+1	GA	575,395	MA	12,423	MD	26,819	CA	80%	NV	86%
KS	+5,312	CO	+59	AK	+0	NC	539,545	GA	10,958	MN	21,864	NC	79%	NC	85%
	+130,792		+2,092		+438		10,377,041		195,886		440,116				
All states	+173,255		+2,534		-322	All states	19,888,285		339,313		690,665	All states	74%		79%
Top ten	75%		83%		-136%	Top ten	52%		58%		64%	Median	73%		75%

Some states not reporting

Five most improved US states

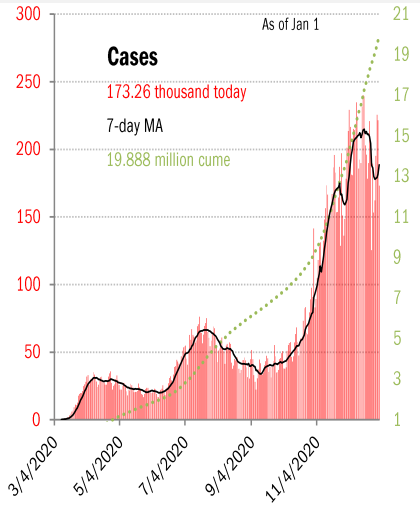
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
FL	-16,827	FL	-133	MO	-235	MO	+397,080
OH	-9,632	OH	-107	NC	-133	TX	+12,163
MA	-7,260	TN	-97	AZ	-101	IN	+2,896
NC	-6,715	MA	-85	ID	-95	WI	+2,858
TN	-5,993	PA	-70	NY	-92	IA	+2,247

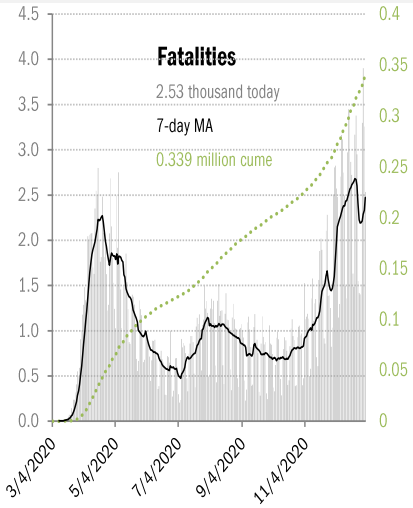


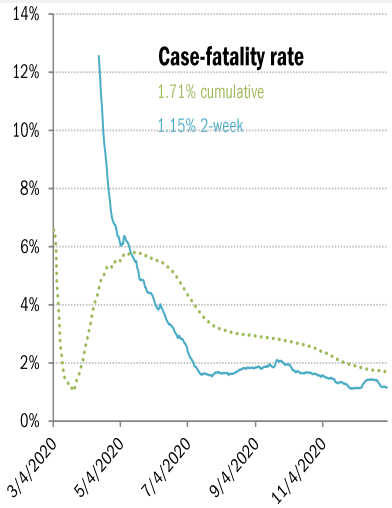
Source: Covid Tracking Project, Dept. of Health and Human Services, CDC, TrendMacro calculations

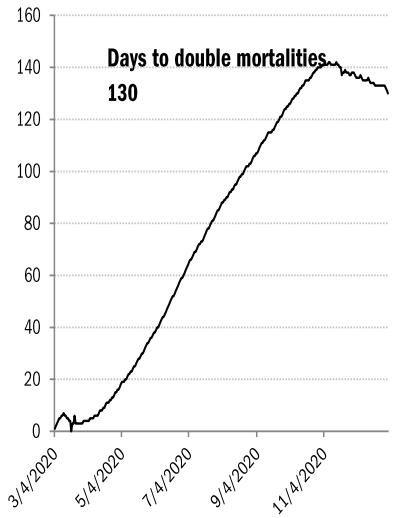
US deep-dive

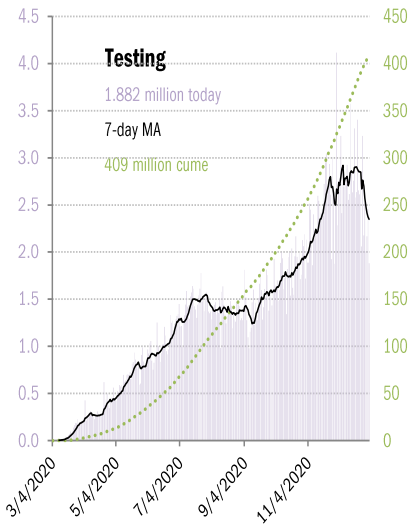
National and state-by-state data do not line up because of different sources

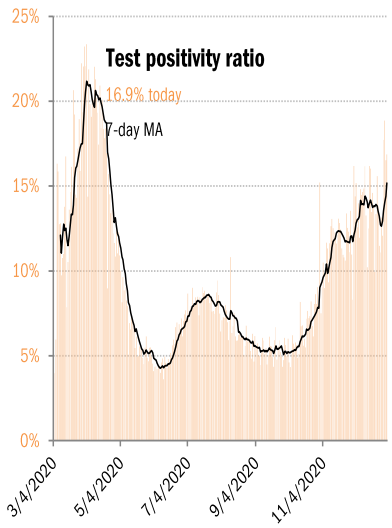


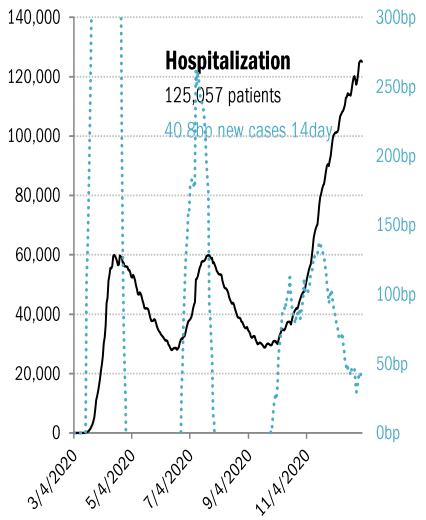


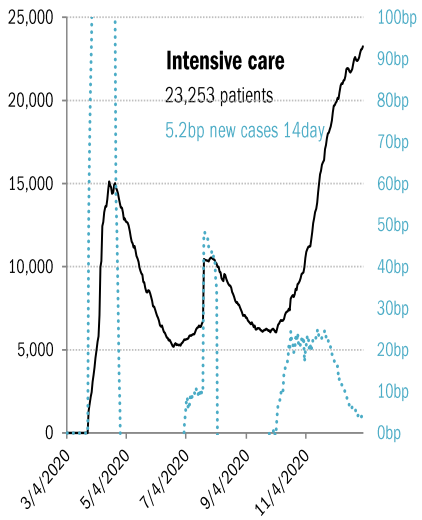


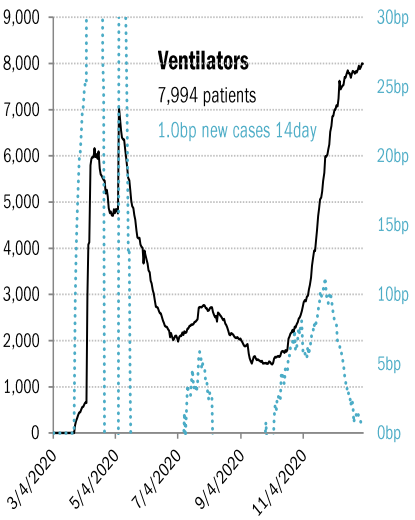






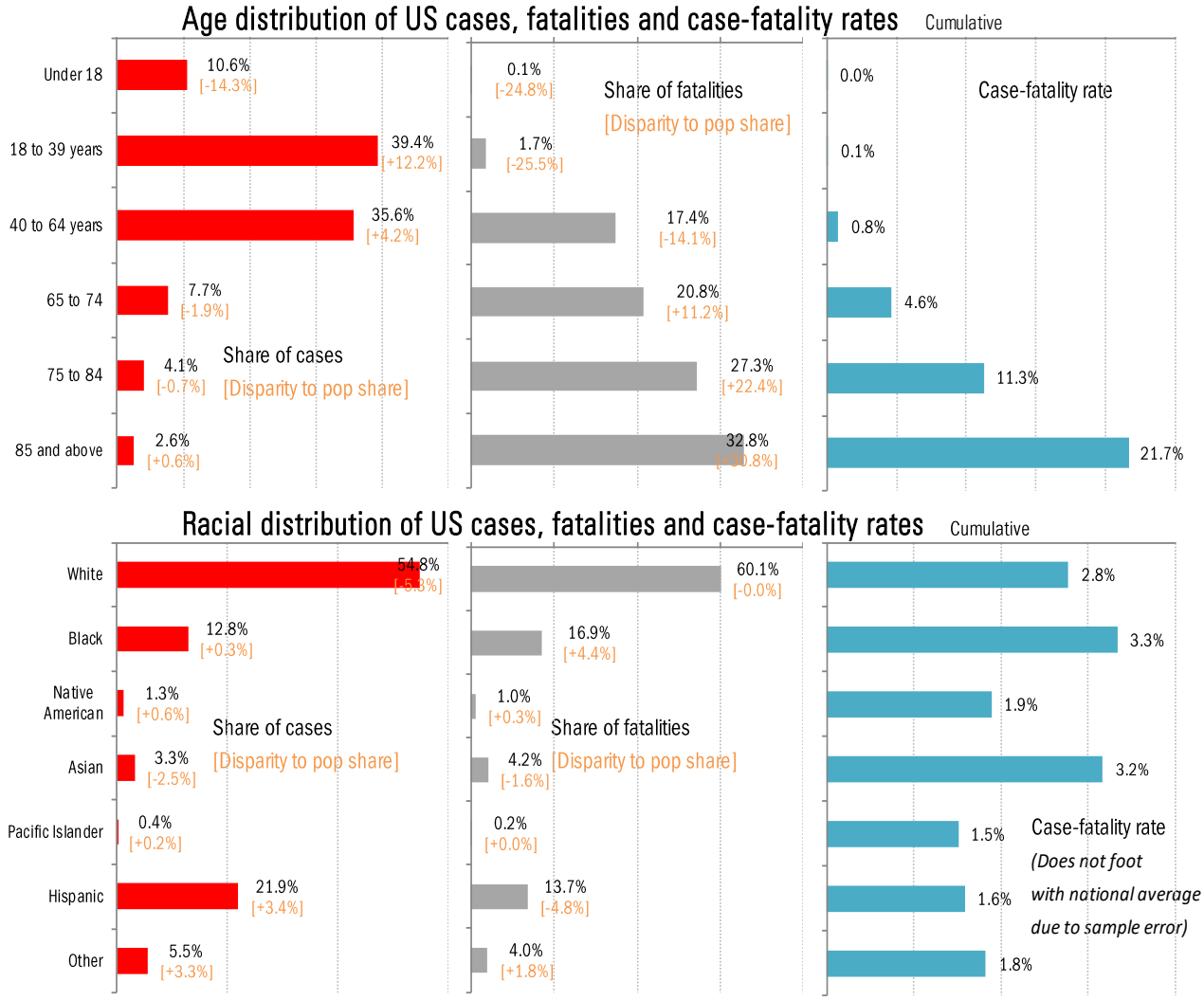




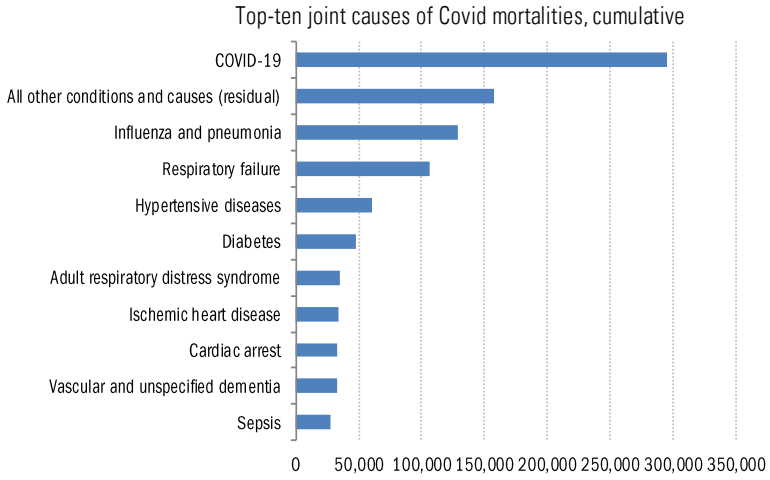


Source: Covid Tracking Project, TrendMacro calculations

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

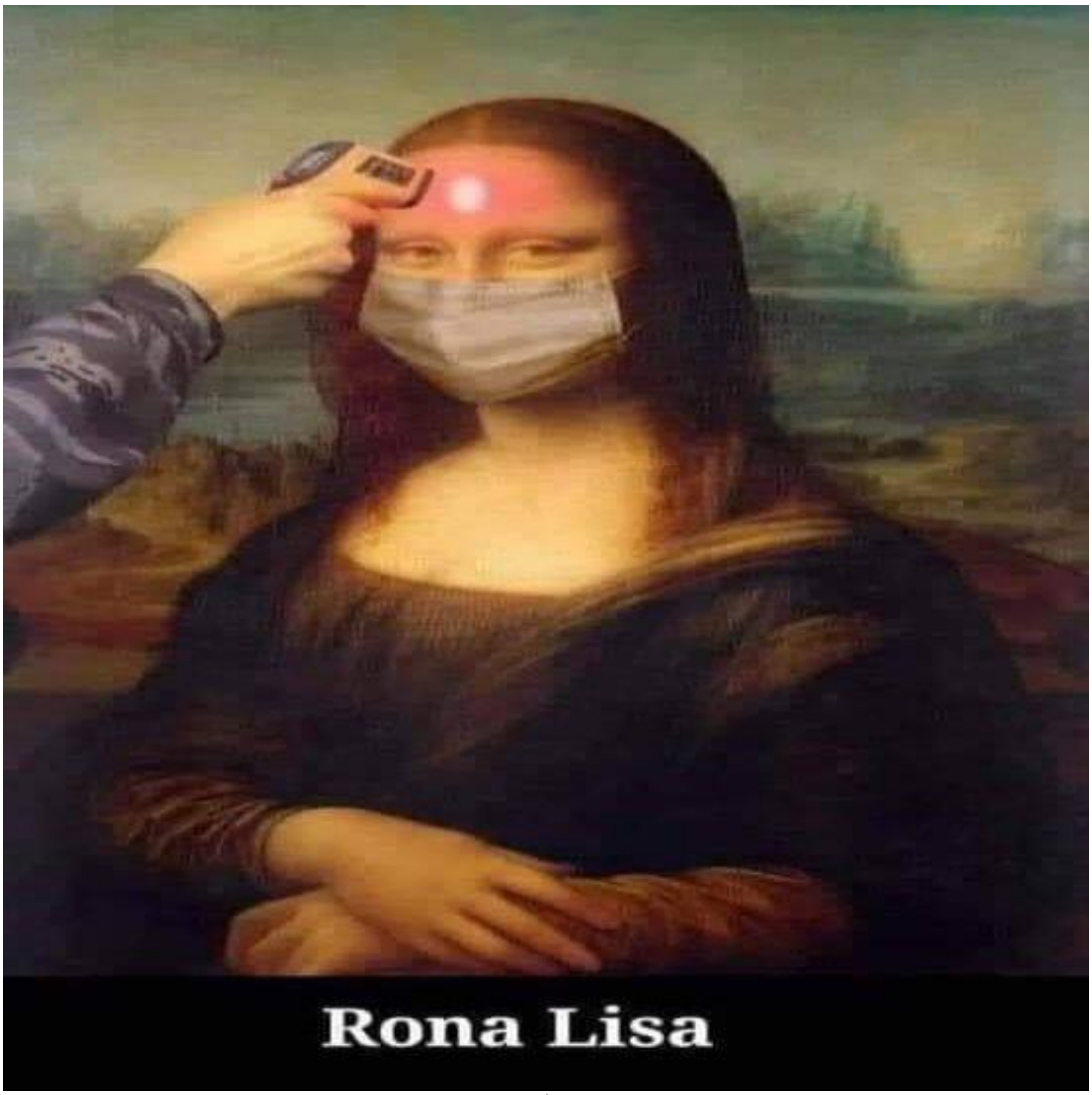
Recommended reading

Remembering some of the restaurants Indianapolis lost in 2020
Cheryl V. Jackson
Indianapolis Star
December 31, 2020

A Buffalo Bills Miracle
Wall Street Journal
December 31, 2020

The Lasting Lessons of John Conway's Game of Life
Siobhan Roberts
New York Times
December 28, 2020

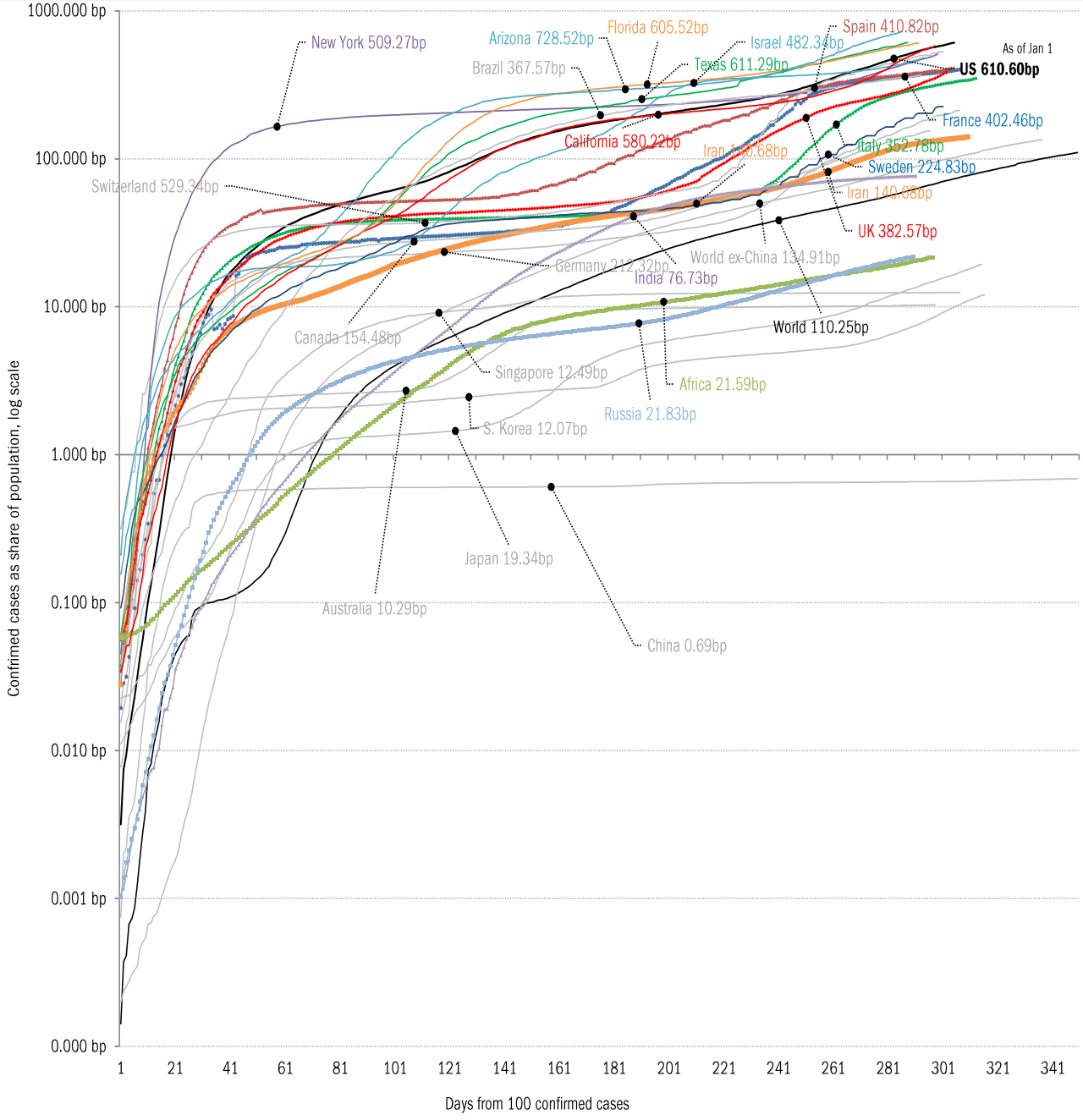
Meme of day



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

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

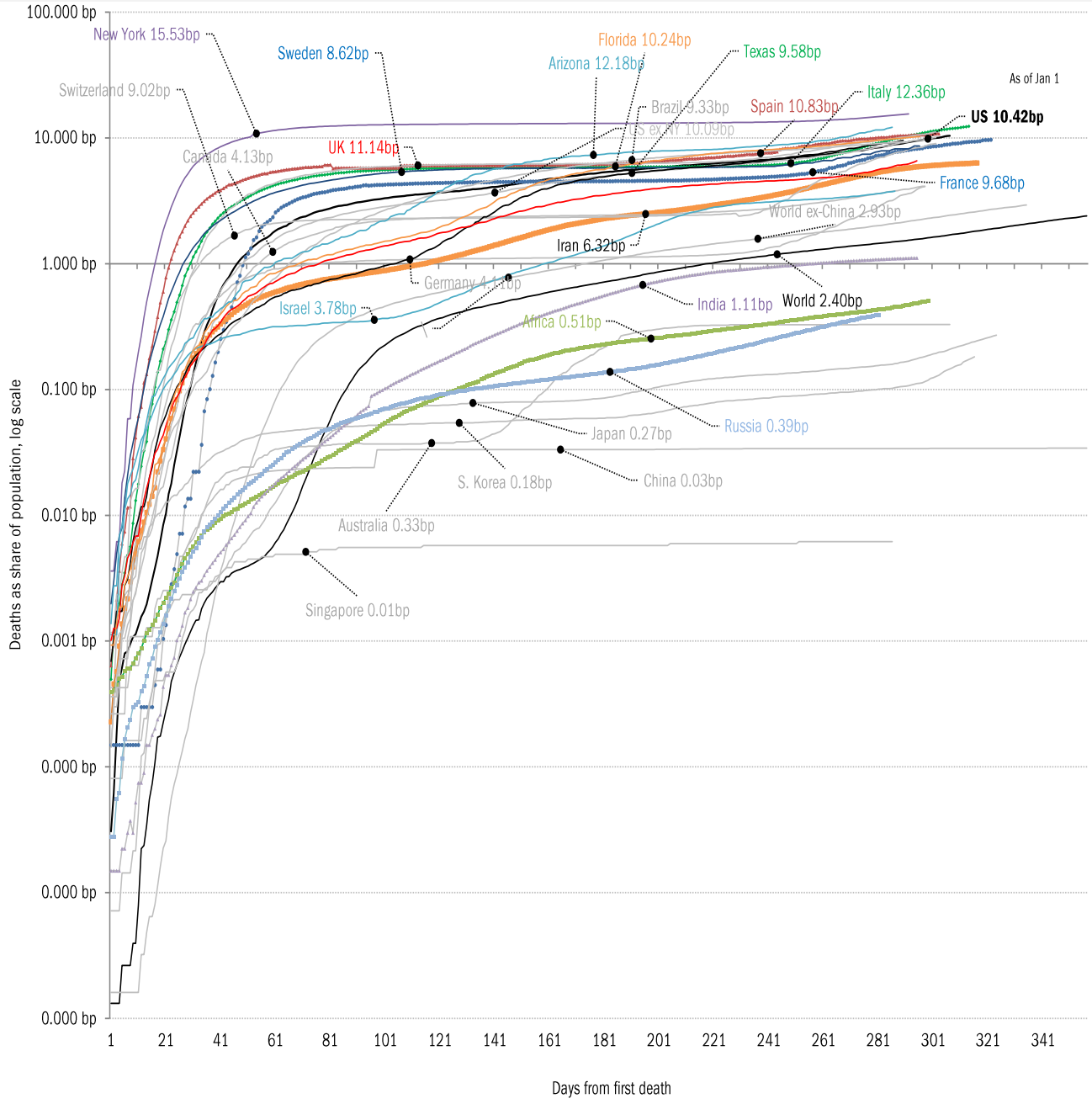
Share of infected population from first day with 100 confirmed cases, log scale



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

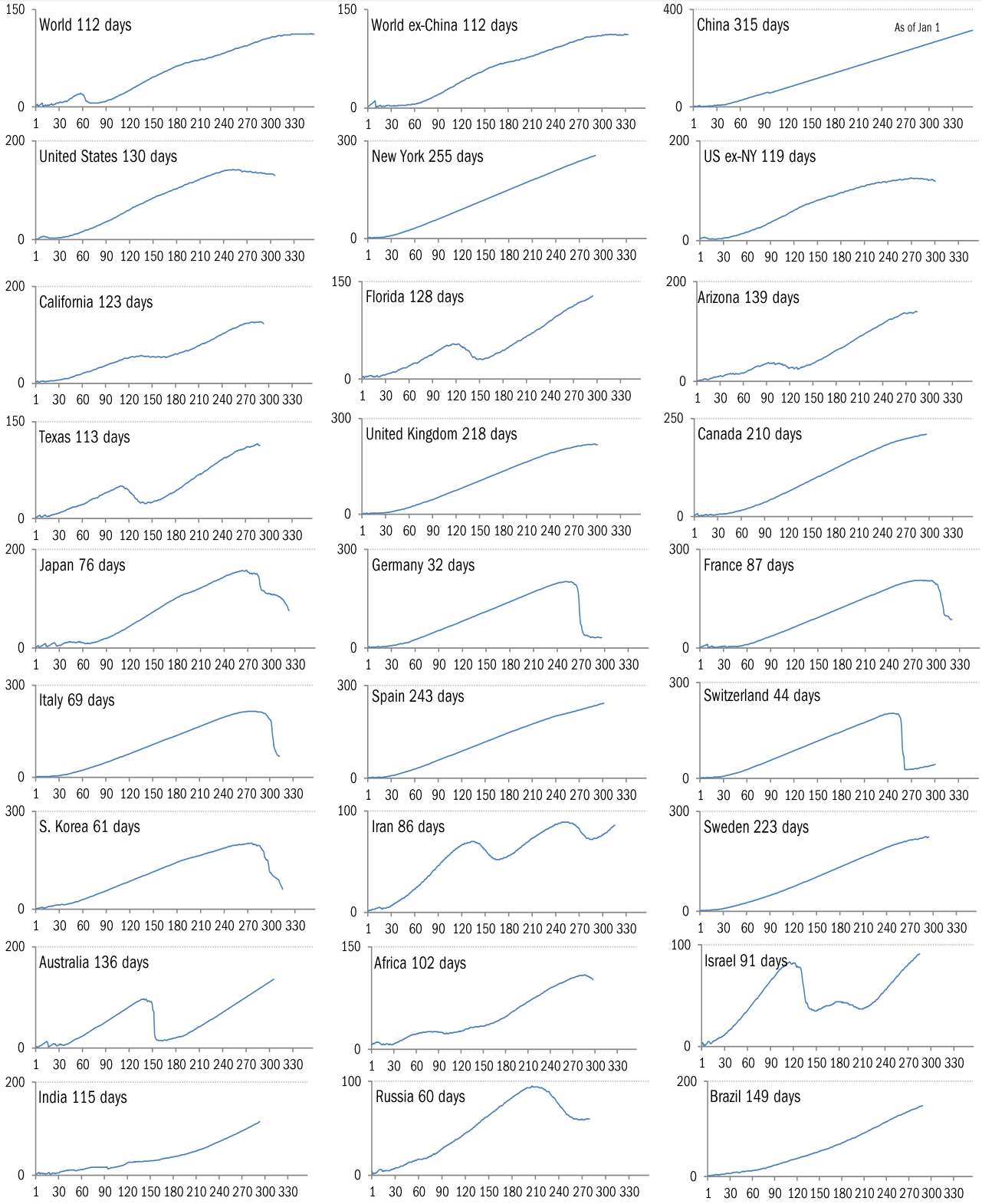


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

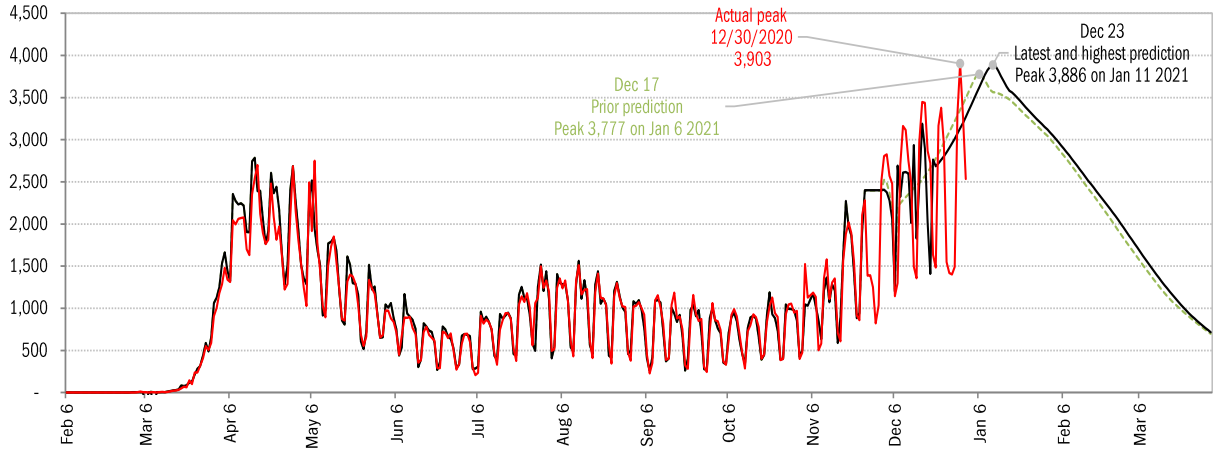
Downward trajectory Five best Upward trajectory Five worst

Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

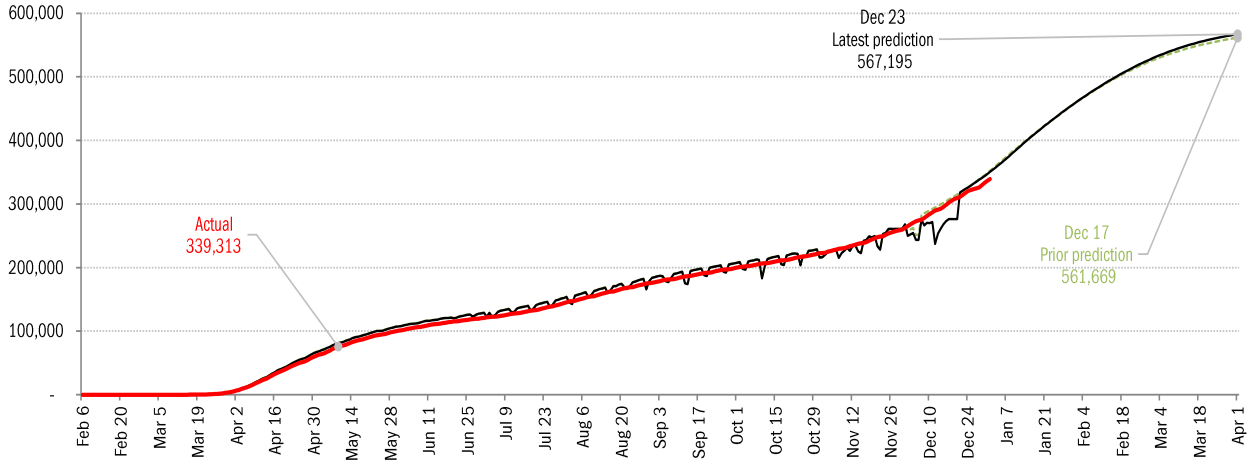
New daily fatalities As of Jan 1

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

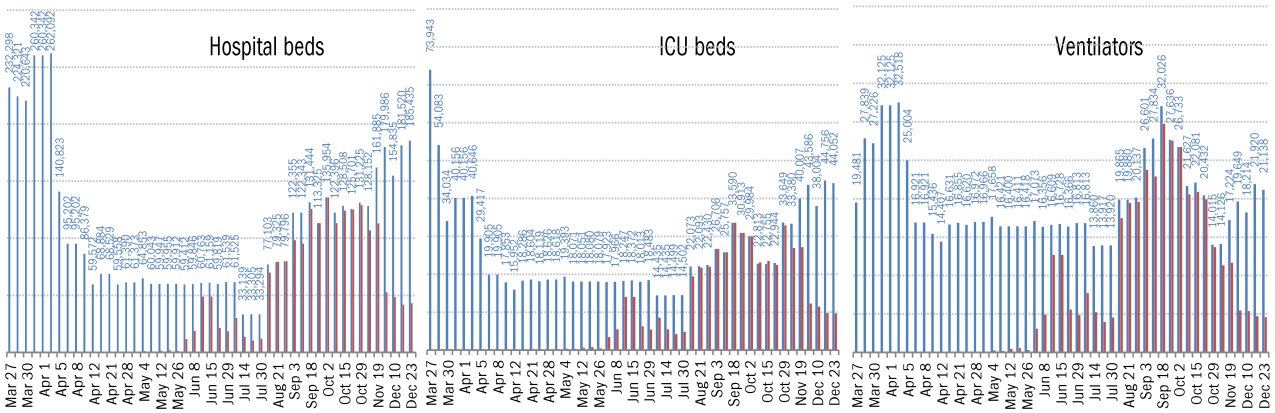


Cumulative fatalities

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

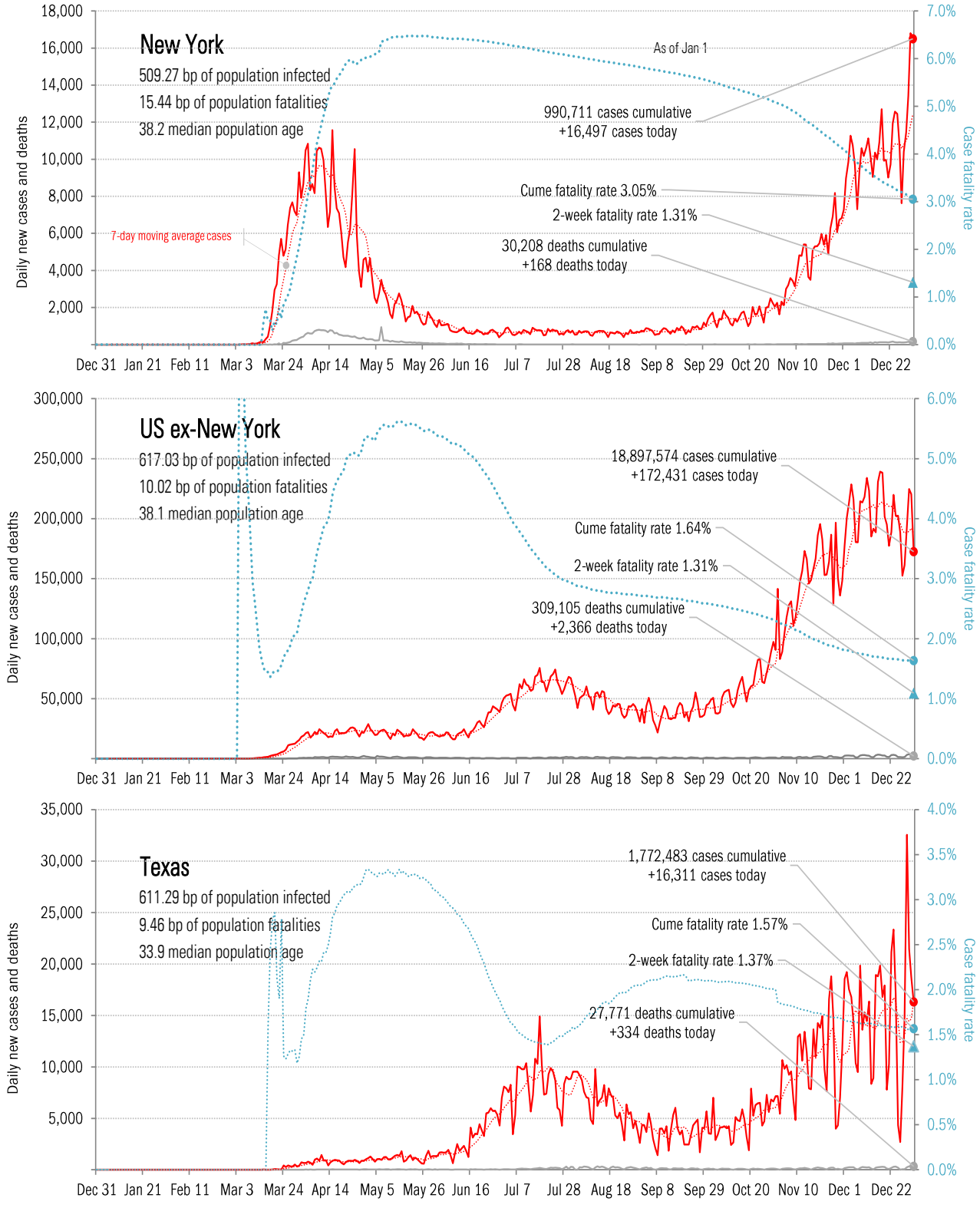


Healthcare system stress, peak and ultimate estimated at each model revision



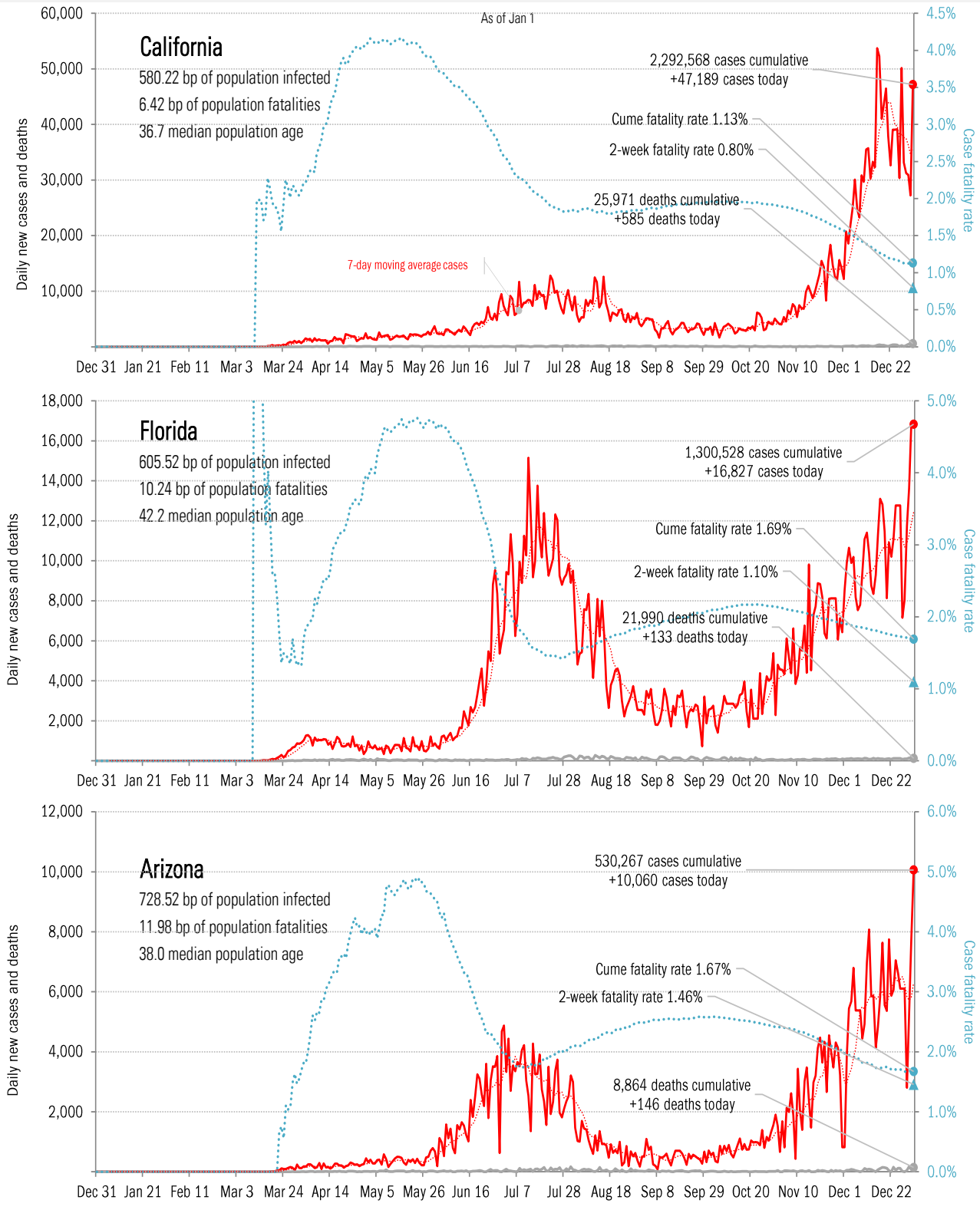
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



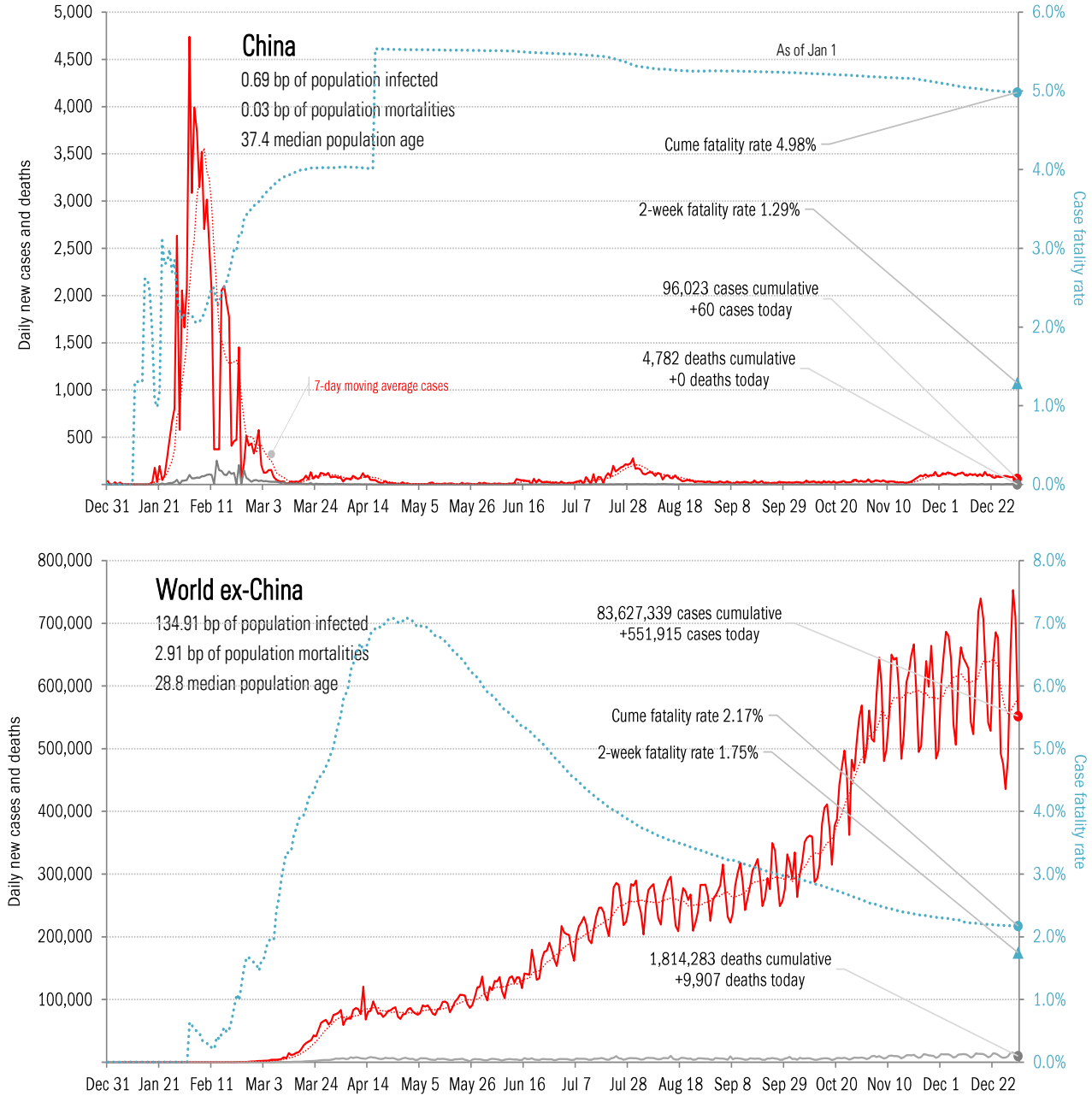
Source: Covid Tracking Project,, TrendMacro calculations

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



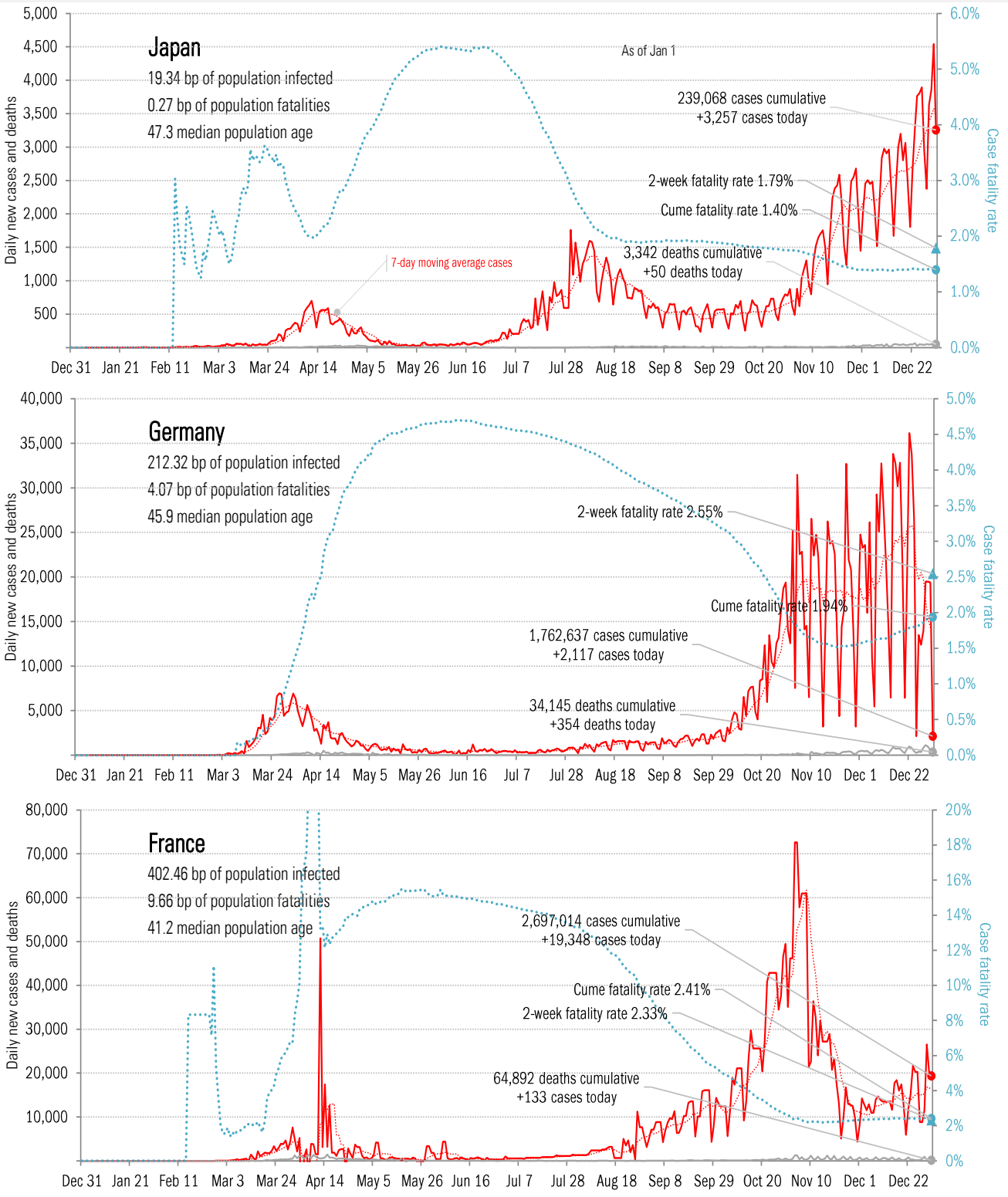
Source: Covid Tracking Project,, TrendMacro calculations

Patient zero… and then everyone else



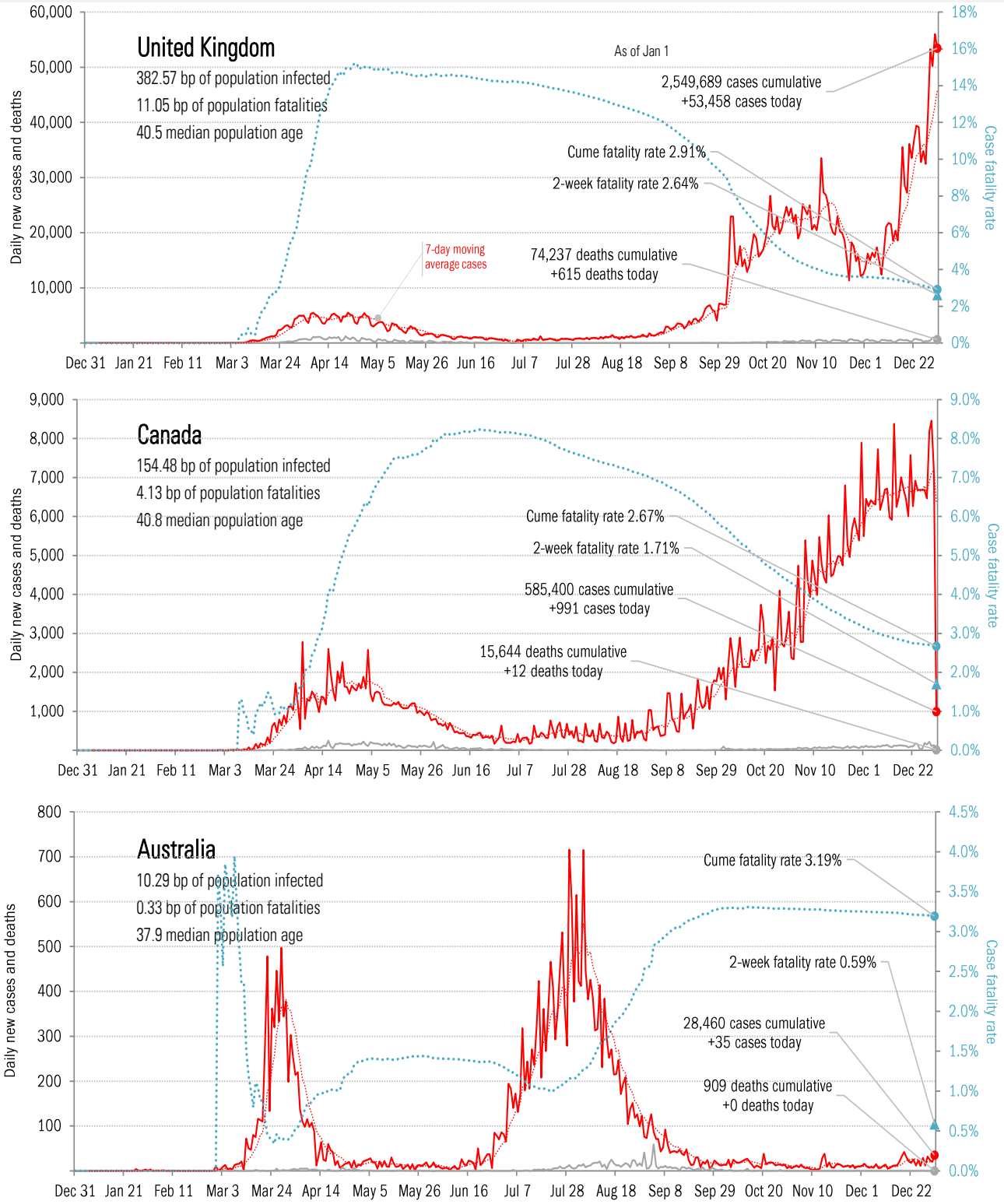
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



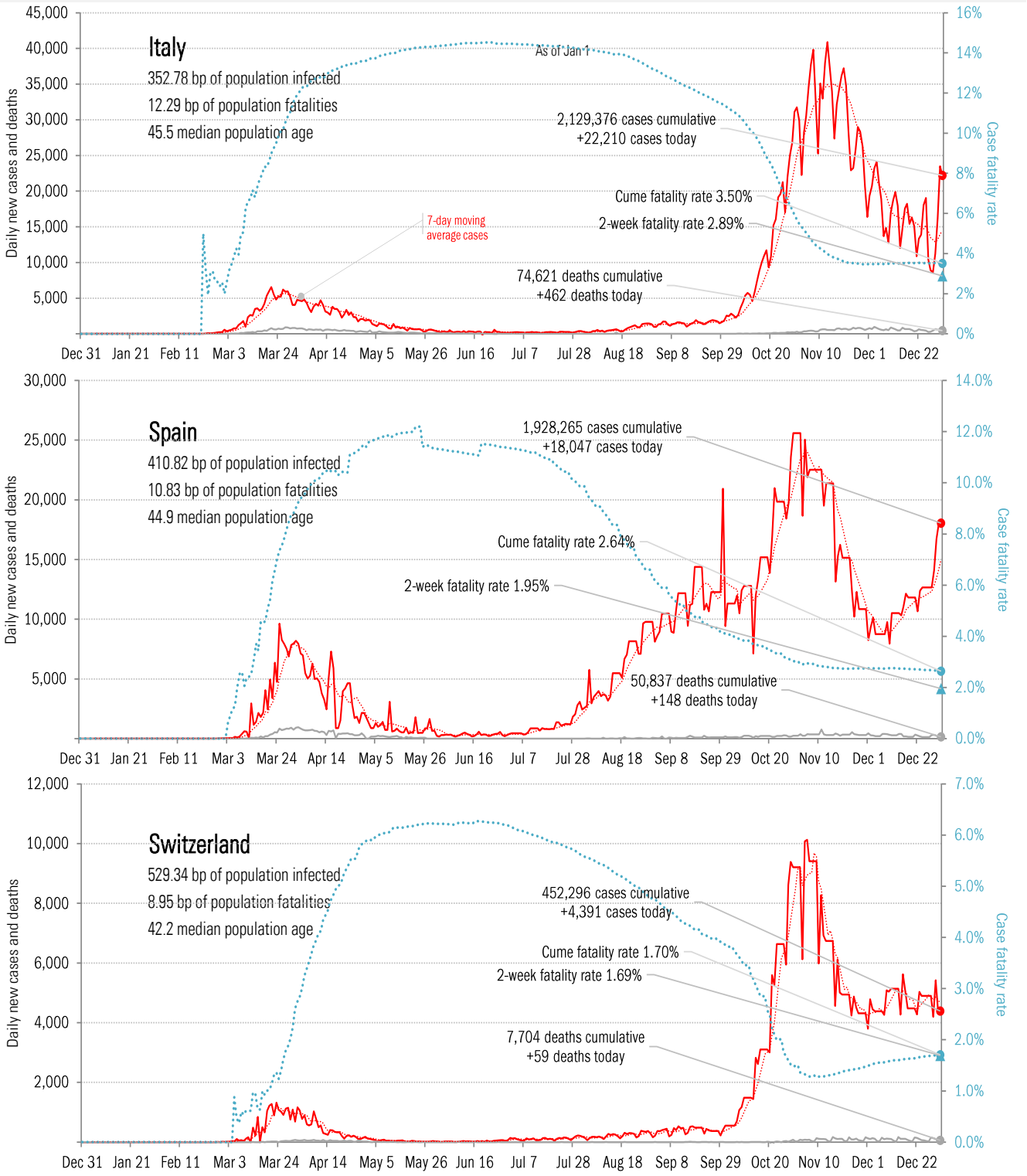
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



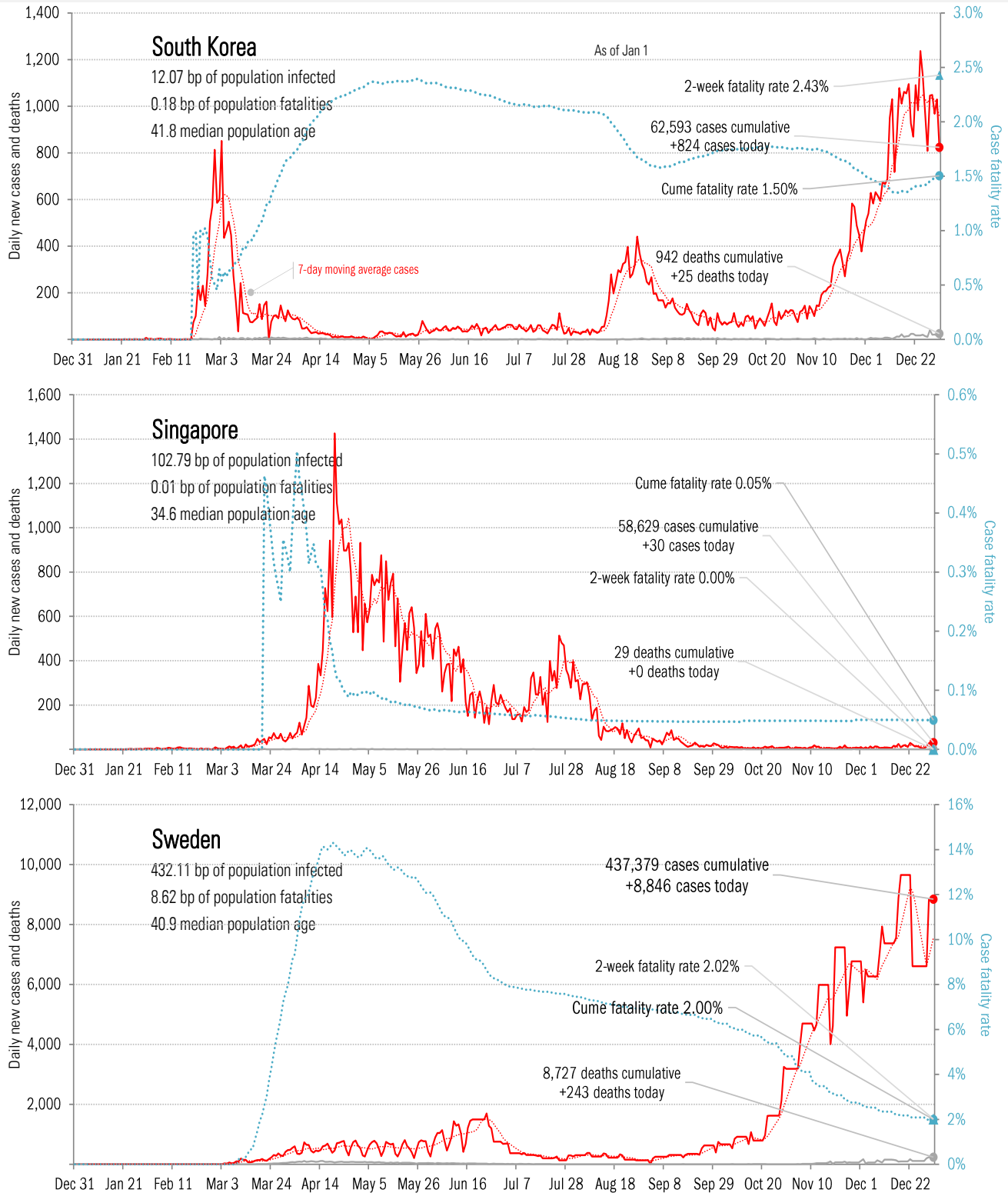
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



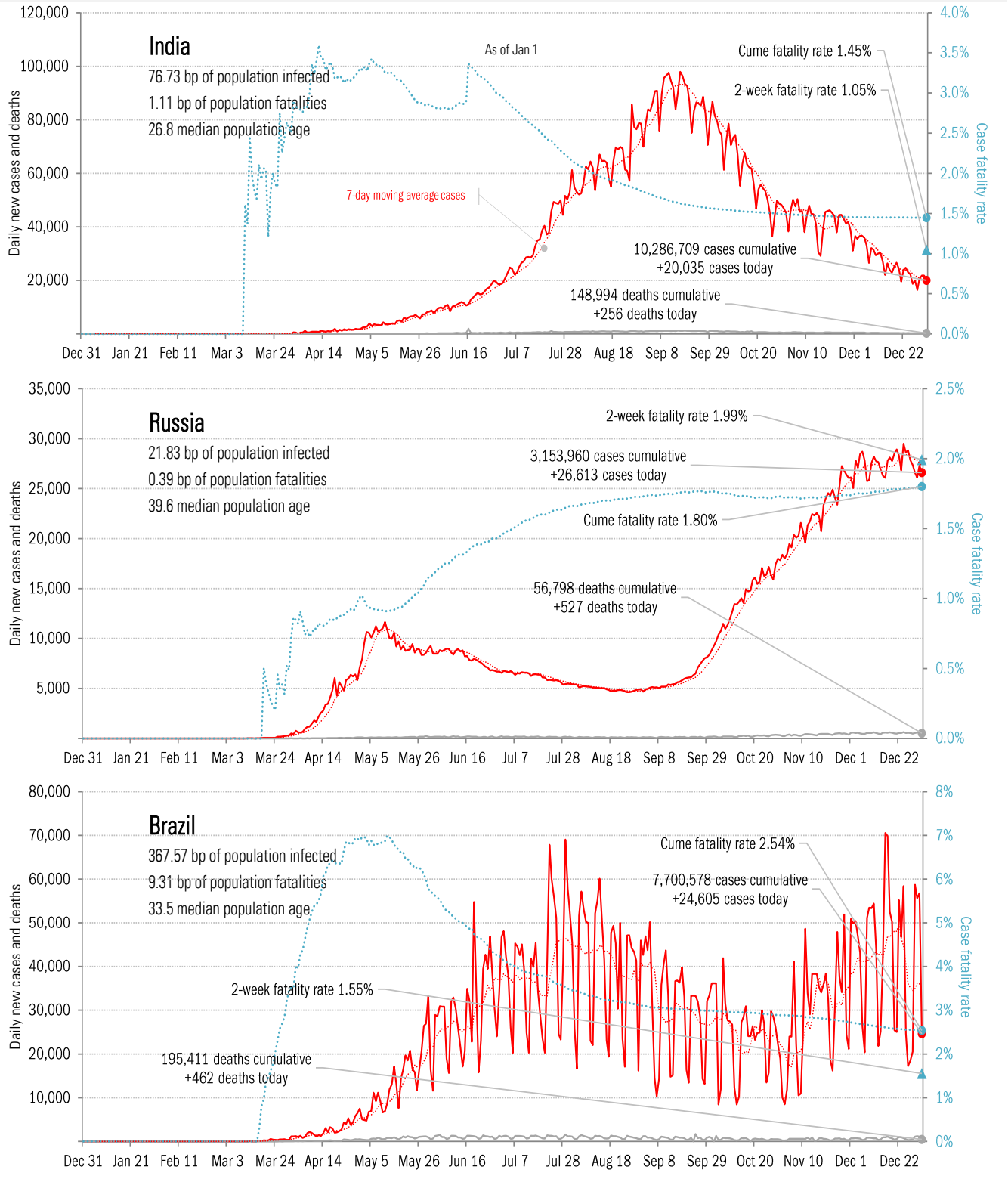
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



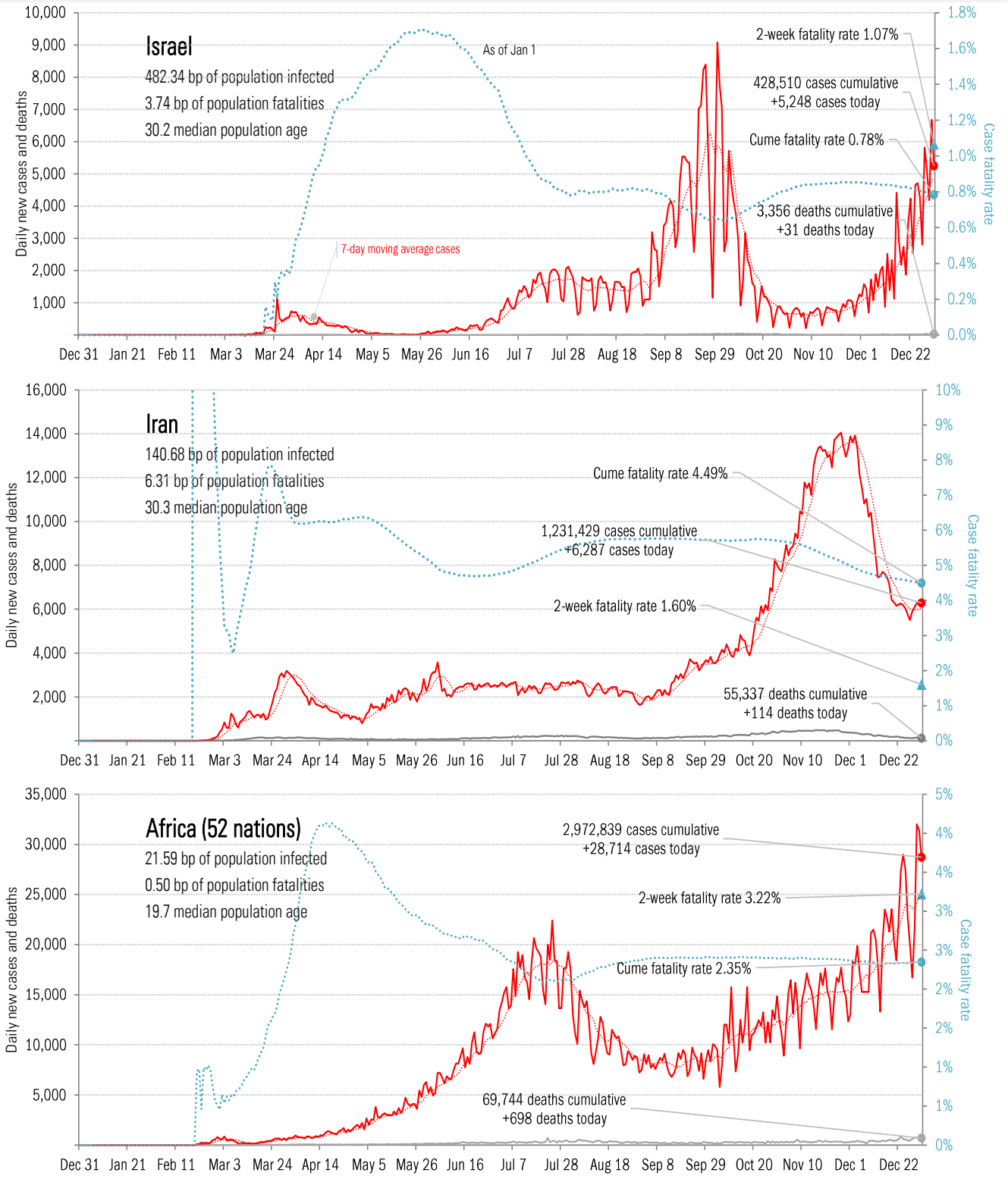
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations