Trend Macrolytics, LLC
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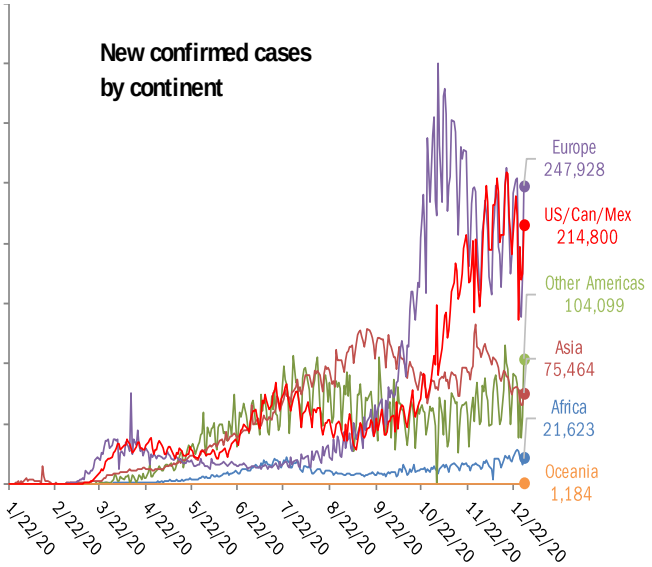
Data Insights: Covid-2019 Monitor

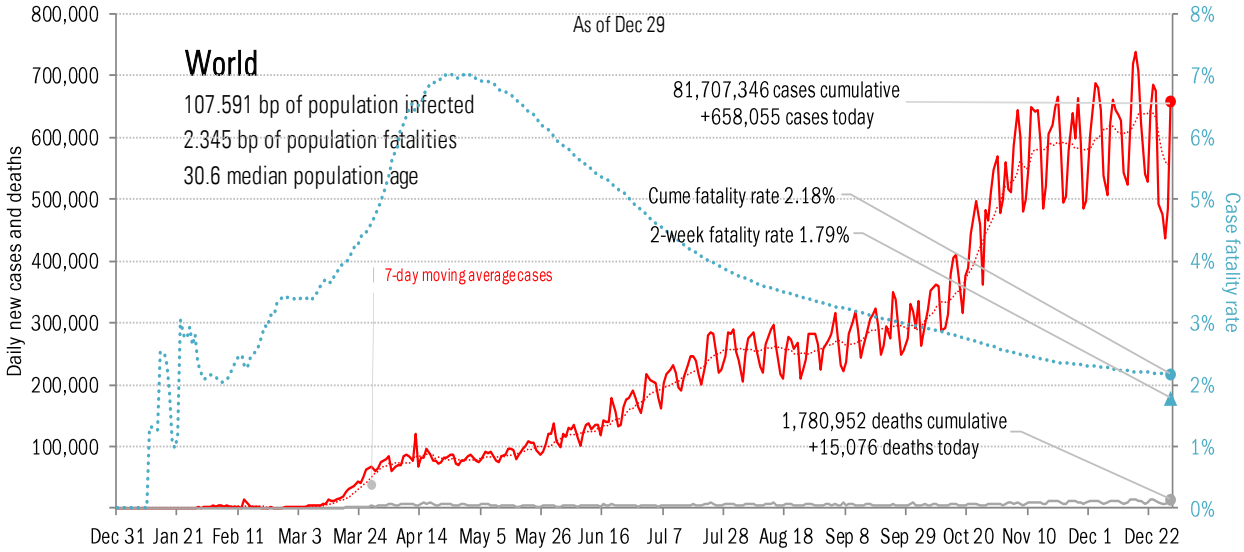
Wednesday, December 30, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+194,512	United States	+3,283
Brazil	+58,718	Germany	+1,122
United Kingdom	+53,275	Brazil	+1,111
Sweden	+32,485	Mexico	+990
Russia	+26,588	France	+969
India	+20,549	Italy	+659
Germany	+19,466	Russia	+548
Turkey	+15,805	South Africa	+497
Spain	+14,089	United Kingdom	+458
Mexico	+12,099	Spain	+320
	+447,586		+9,957
World	+658,055	World	+15,076
Top ten	68%	Top ten	66%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

For more information contact us:
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The US scorecard

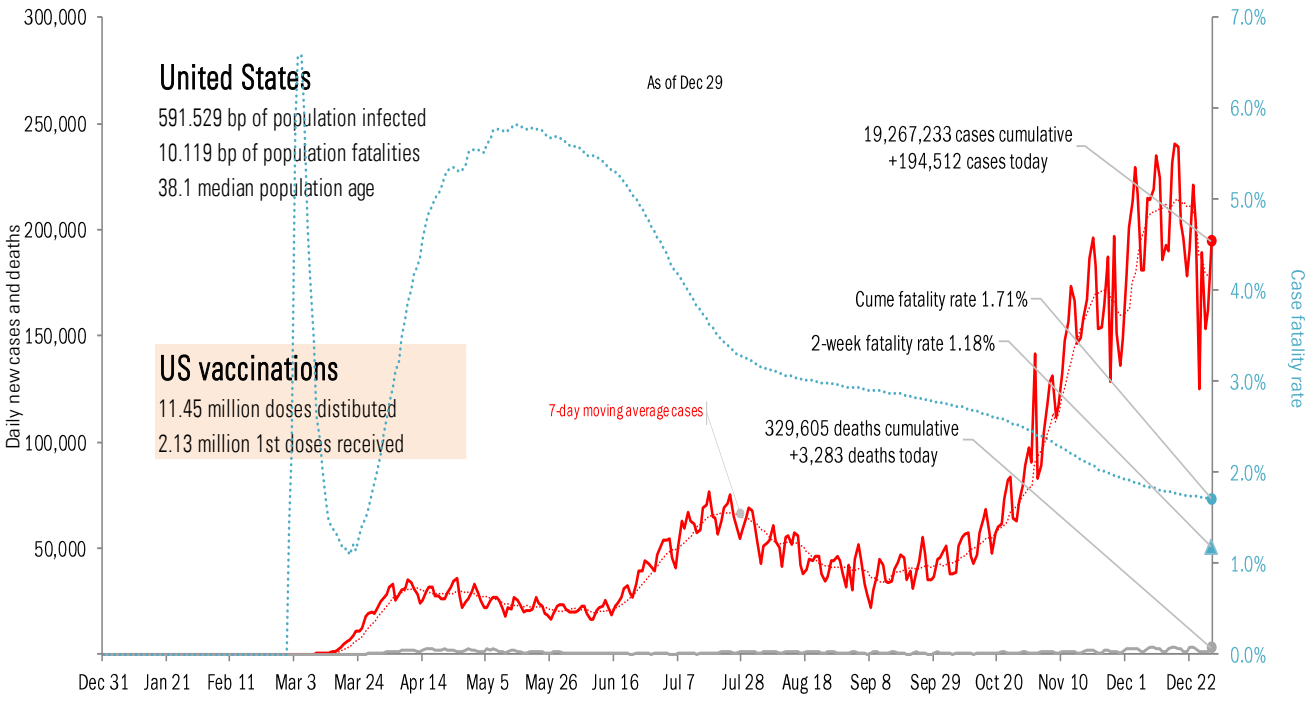
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TX	+32,552	PA	+267	CA	+598	CA	2,187,221	NY	29,756	NY	89,995	NV	169%	NM	98%
CA	+31,245	CA	+242	TX	+424	TX	1,715,978	TX	26,762	FL	62,999	RI	87%	AL	92%
FL	+11,748	TX	+241	NY	+255	FL	1,270,063	CA	24,526	NJ	46,784	GA	81%	RI	91%
NY	+11,438	MI	+212	OK	+198	IL	948,006	FL	21,718	GA	41,403	MD	79%	GA	90%
PA	+8,545	AZ	+171	NC	+185	NY	943,990	NJ	18,777	OH	37,636	SC	79%	NV	87%
OH	+7,526	IN	+165	FL	+171	OH	682,570	IL	17,596	AZ	36,075	CA	78%	OK	87%
GA	+5,853	OH	+151	NJ	+146	PA	622,349	PA	15,353	IN	34,534	AZ	77%	CA	87%
IL	+5,644	NY	+127	VA	+135	TN	572,589	MI	12,966	AL	33,452	DC	75%	TX	85%
TN	+4,797	IL	+126	TN	+123	GA	552,712	MA	12,218	MD	26,247	MA	75%	WV	85%
MA	+4,145	NJ	+126	MO	+111	NC	524,279	GA	10,779	MN	21,605	FL	75%	TN	84%
	+123,493		+1,828		+2,346		10,019,757		190,451		430,730				
All states	+194,512		+3,283		+3451	All states	19,267,233		329,605		676,253	All states	70%		76%
Top ten	63%		56%		68%	Top ten	52%		58%		64%	Median	67%		74%

Some states not reporting

Five most improved US states

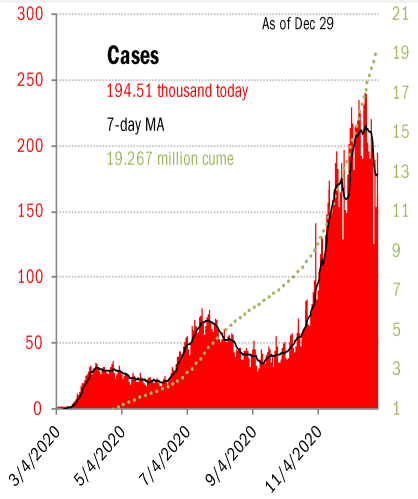
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CT	-7,690	CT	-93	AL	-215	TX	+29,782
AZ	-7,287	KS	-41	OH	-135	OH	+11,993
KS	-6,373	WY	-32	NY	-121	PA	+11,692
OK	-2,254	NM	-11	GA	-120	TN	+10,218
CA	-1,925	IL	-8	AZ	-115	IN	+5,036

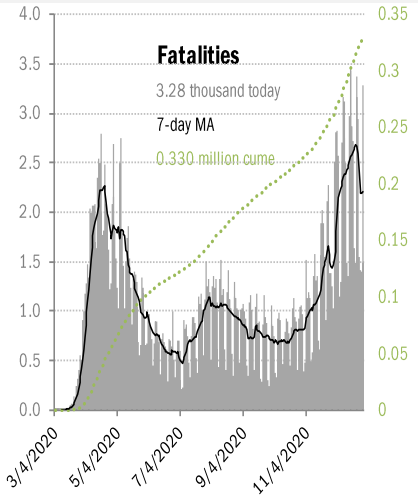


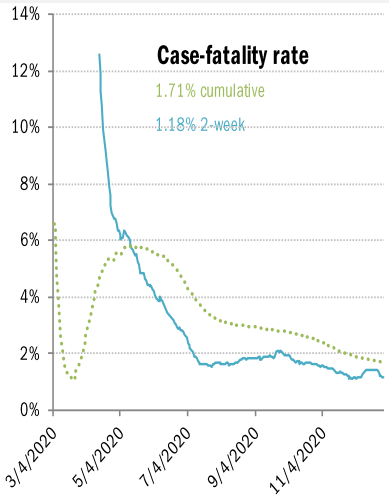
Source: Covid Tracking Project, Dept. of Health and Human Services, CDC, TrendMacro calculations

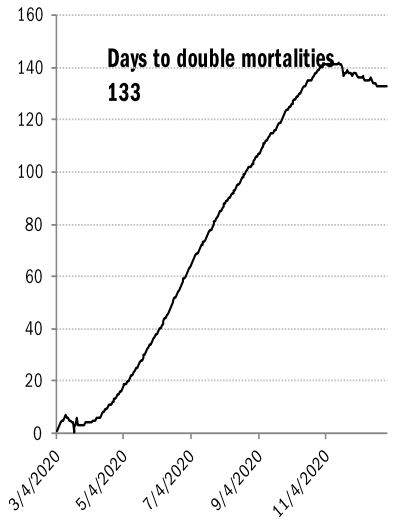
US deep-dive

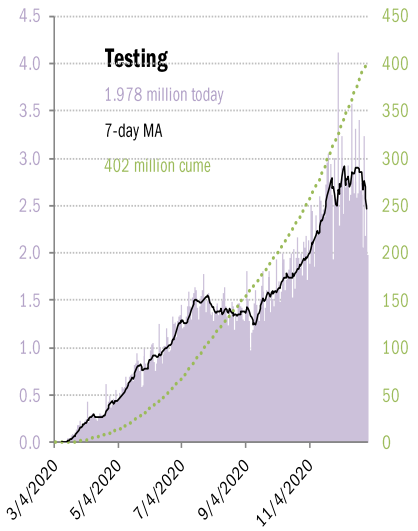
National and state-by-state data do not line up because of different sources

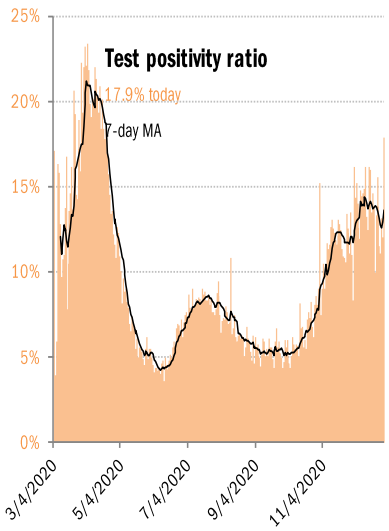


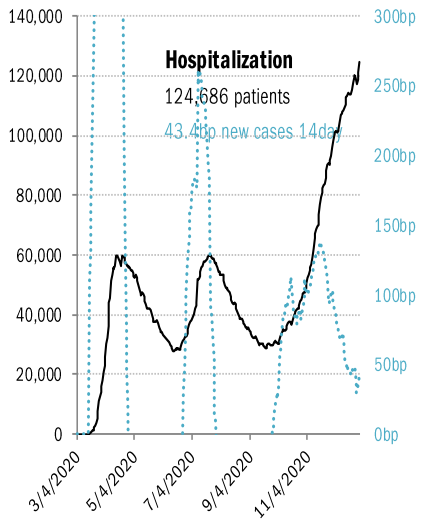


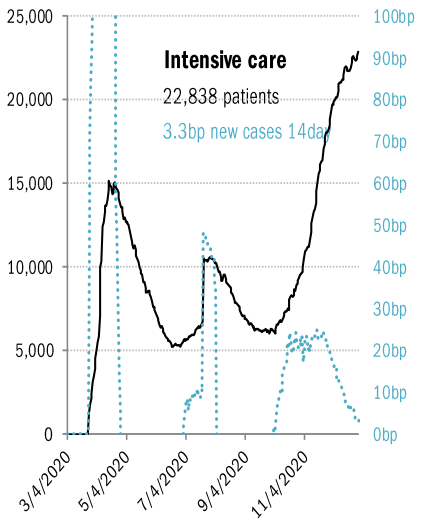


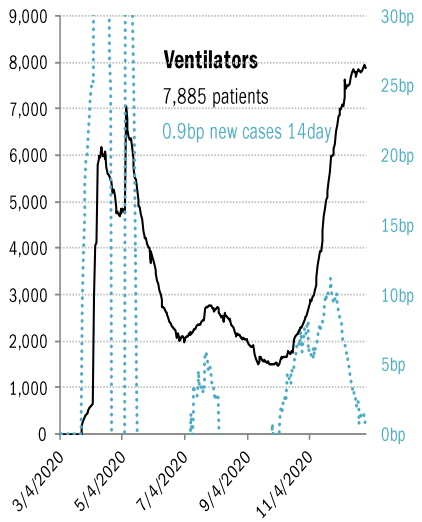






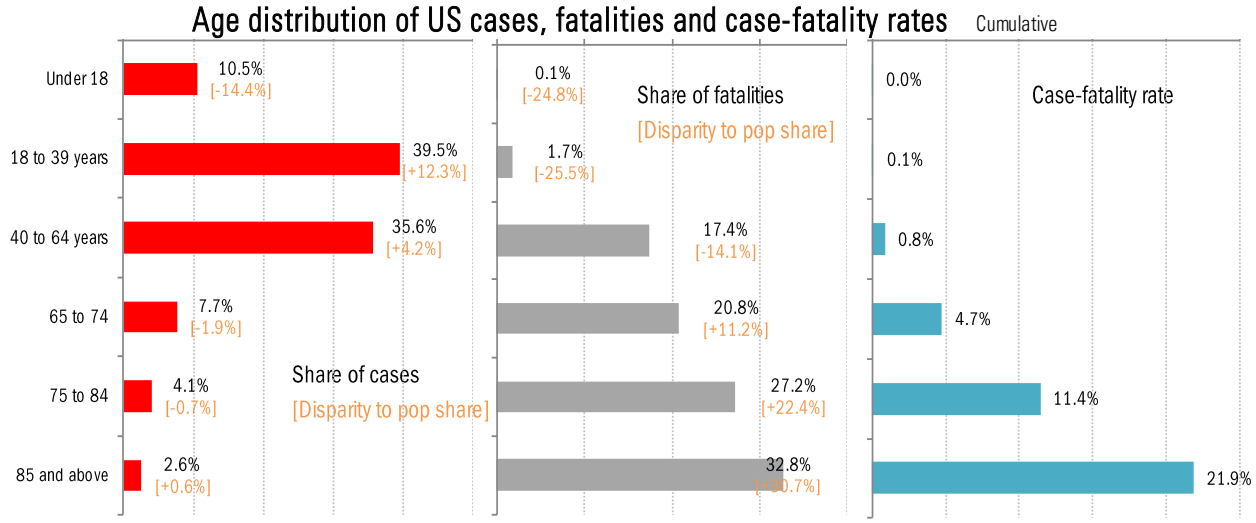


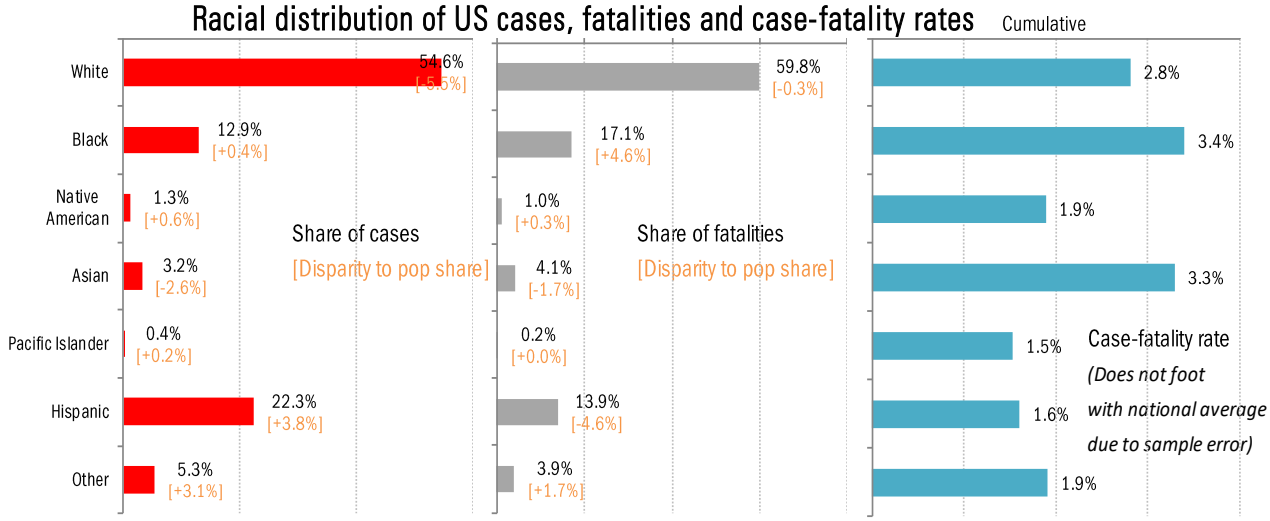




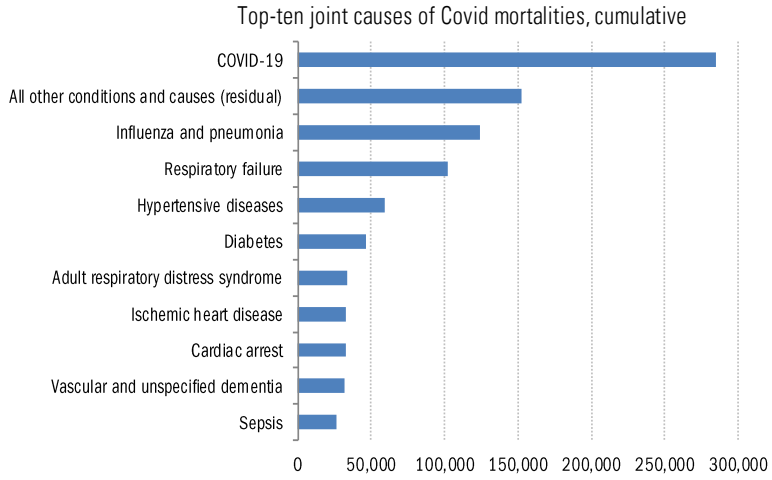
Source: Covid Tracking Project, TrendMacro calculations

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

U.S. Reports First Case of New Covid-19 Variant
Lukas I. Alpert and Daniela Hernandez
Wall Street Journal
December 29, 2020

Louisiana GOP Congressman-Elect Luke Letlow Dies of Covid-19
Natalie Andrews
Wall Street Journal
December 30, 2020

Covid poses 'greatest threat to mental health since second world war'
Ian Sample
The Guardian
December 27, 2020

Executive Order on Expanding Educational Opportunity Through School Choice
Donald J. Trump
The White House
December 28, 2020

Why the Twitter pitchforks came for me over an NHS statistic
Paul Embery
The Post by Unherd
December 29, 2020

Mysterieuze, kunstzinnige protestmars in Nederland | Guerilla Mask Force
Cafe Weltschmerz
December 1, 2020

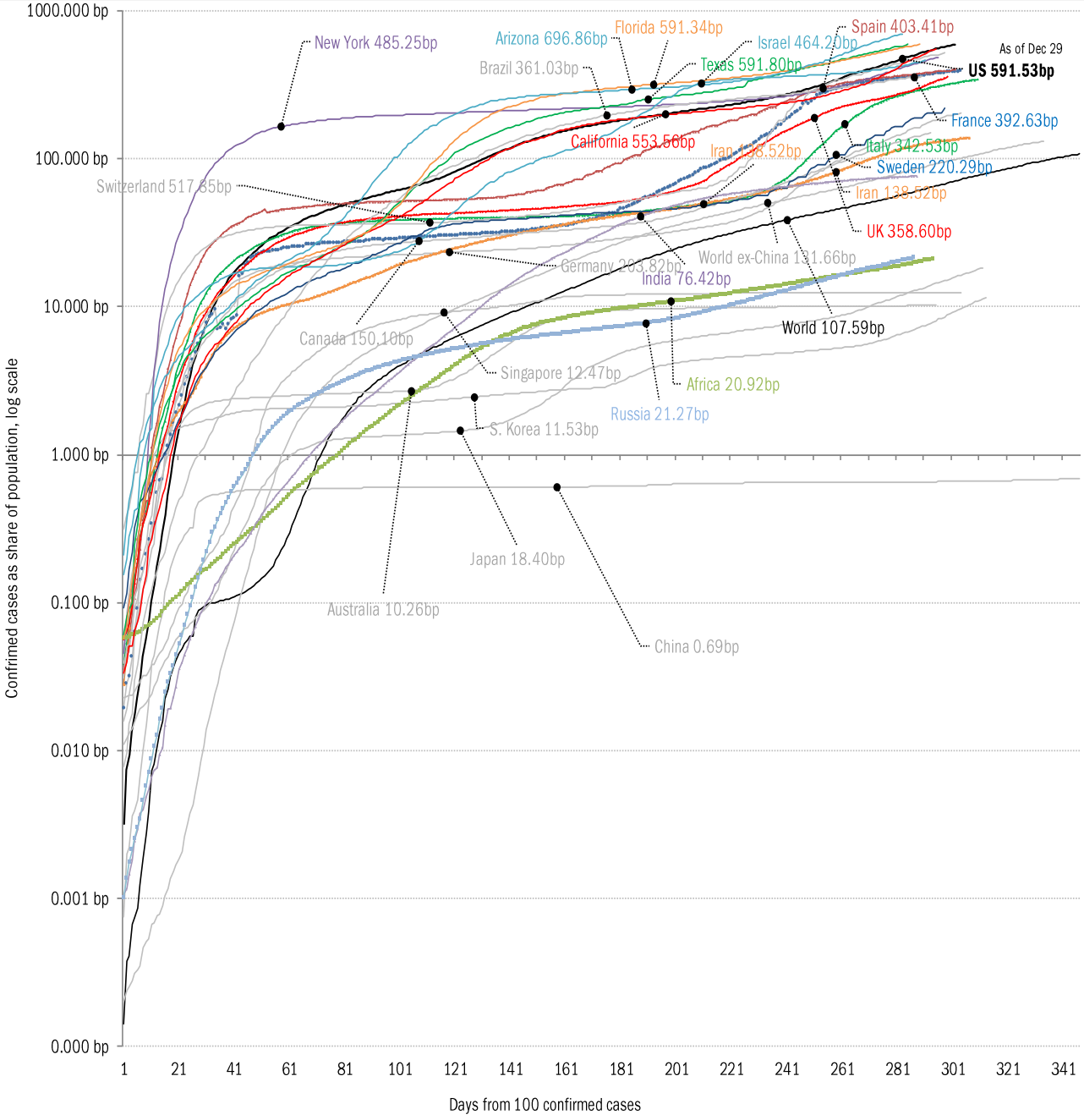
Donald Trump, Michelle Obama Most Admired in 2020
Jeffrey M. Jones
Gallup
December 29, 2020

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

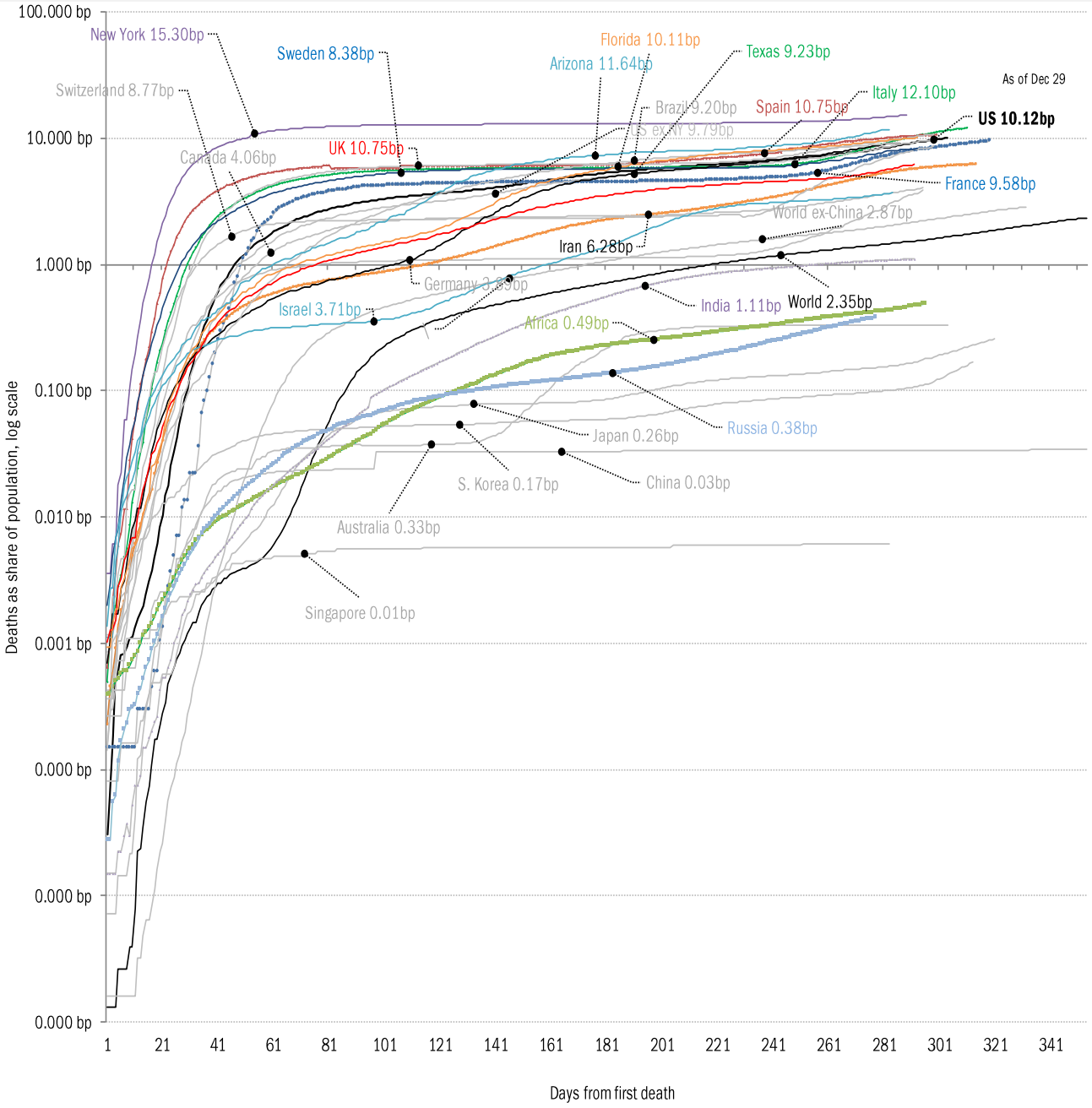
Share of infected population from first day with 100 confirmed cases, log scale



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

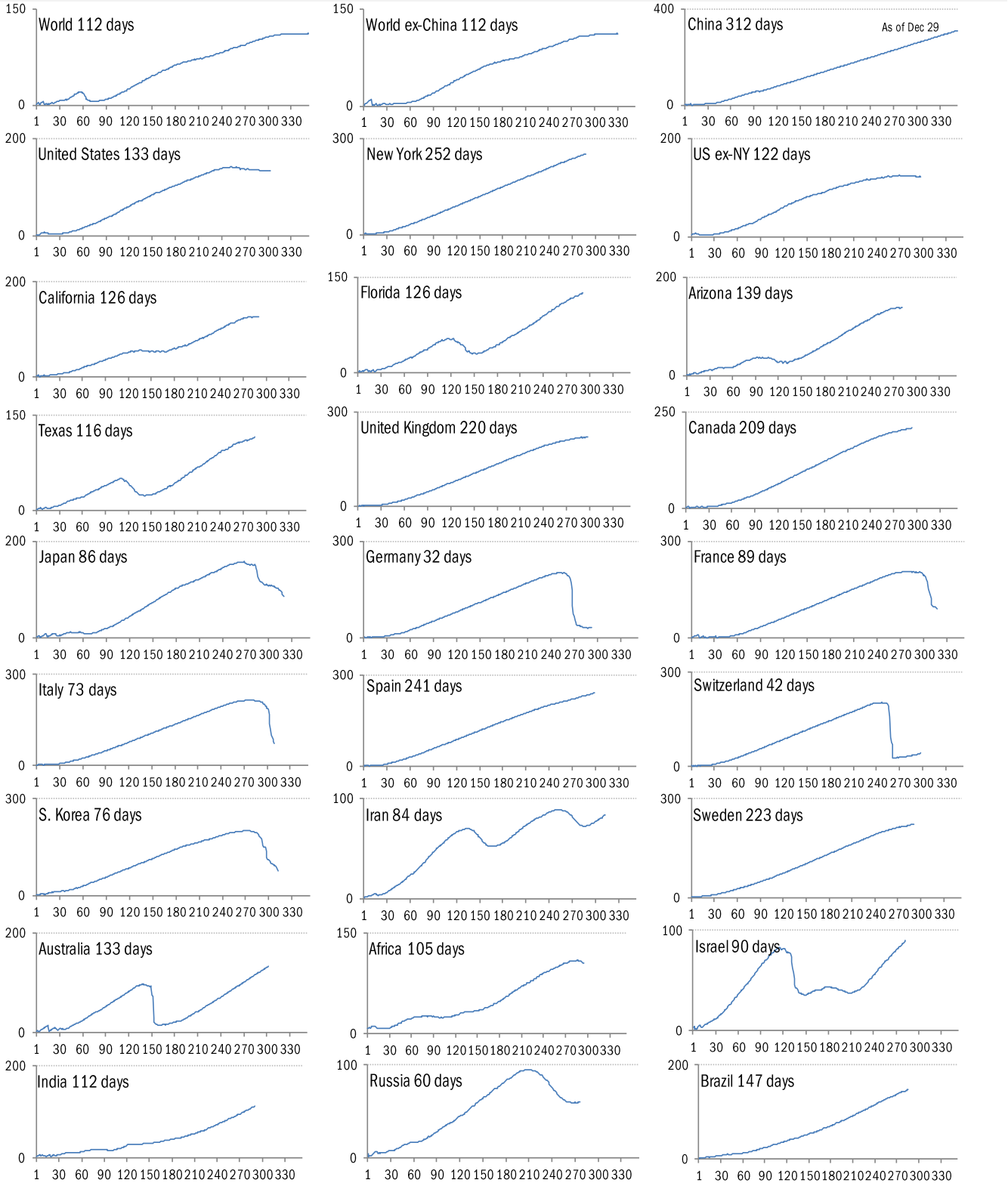


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

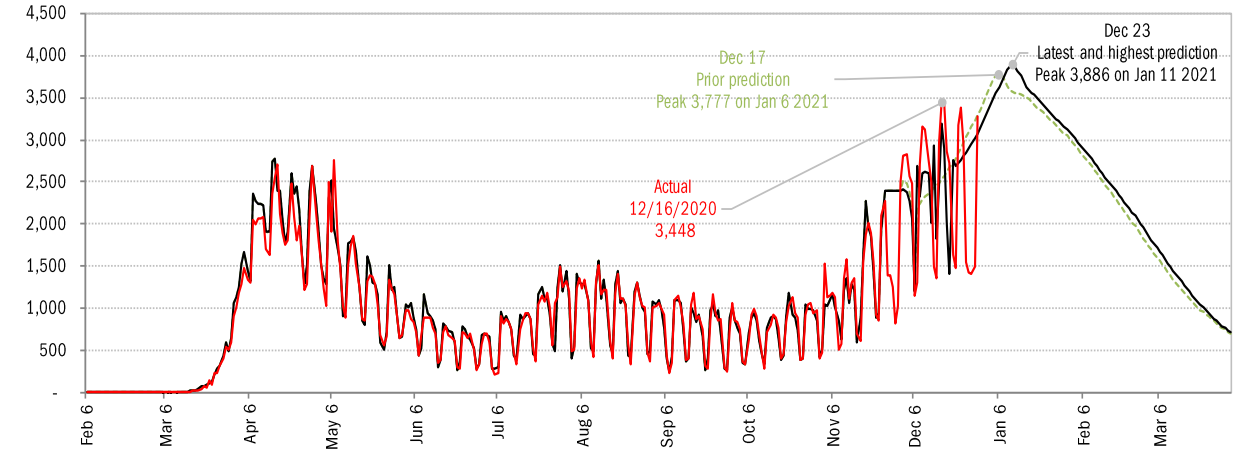
Downward trajectory Five best Upward trajectory Five worst

Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

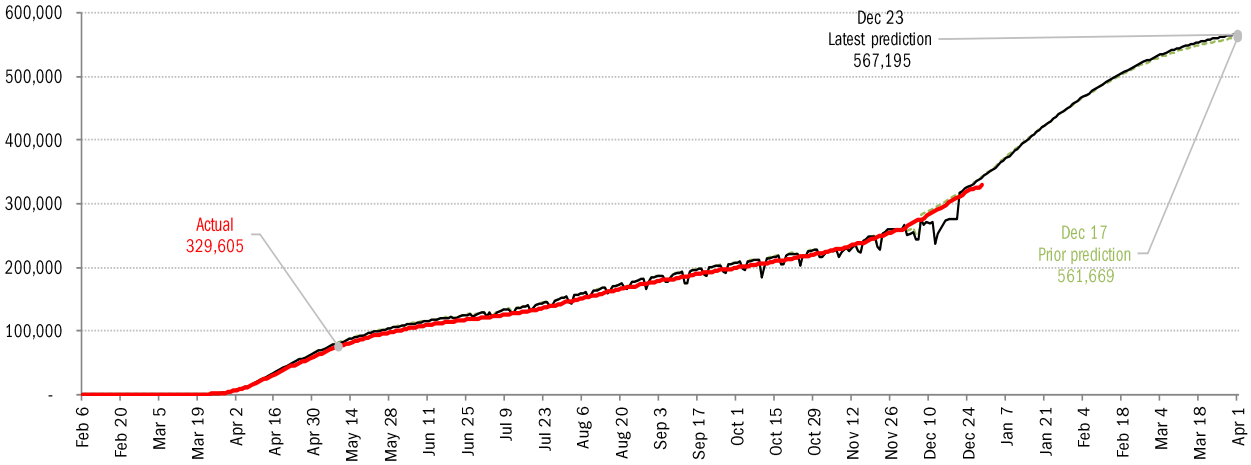
New daily fatalities As of Dec 29

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

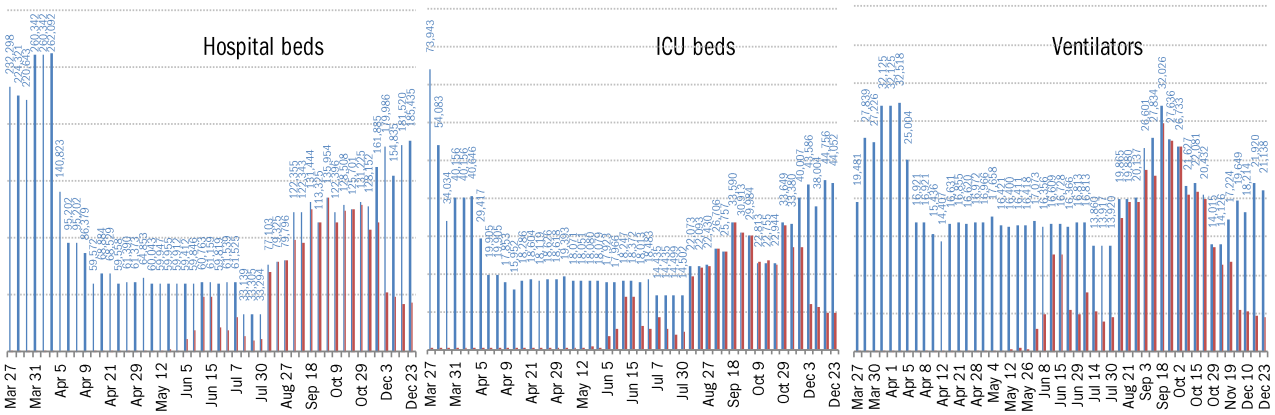


Cumulative fatalities

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

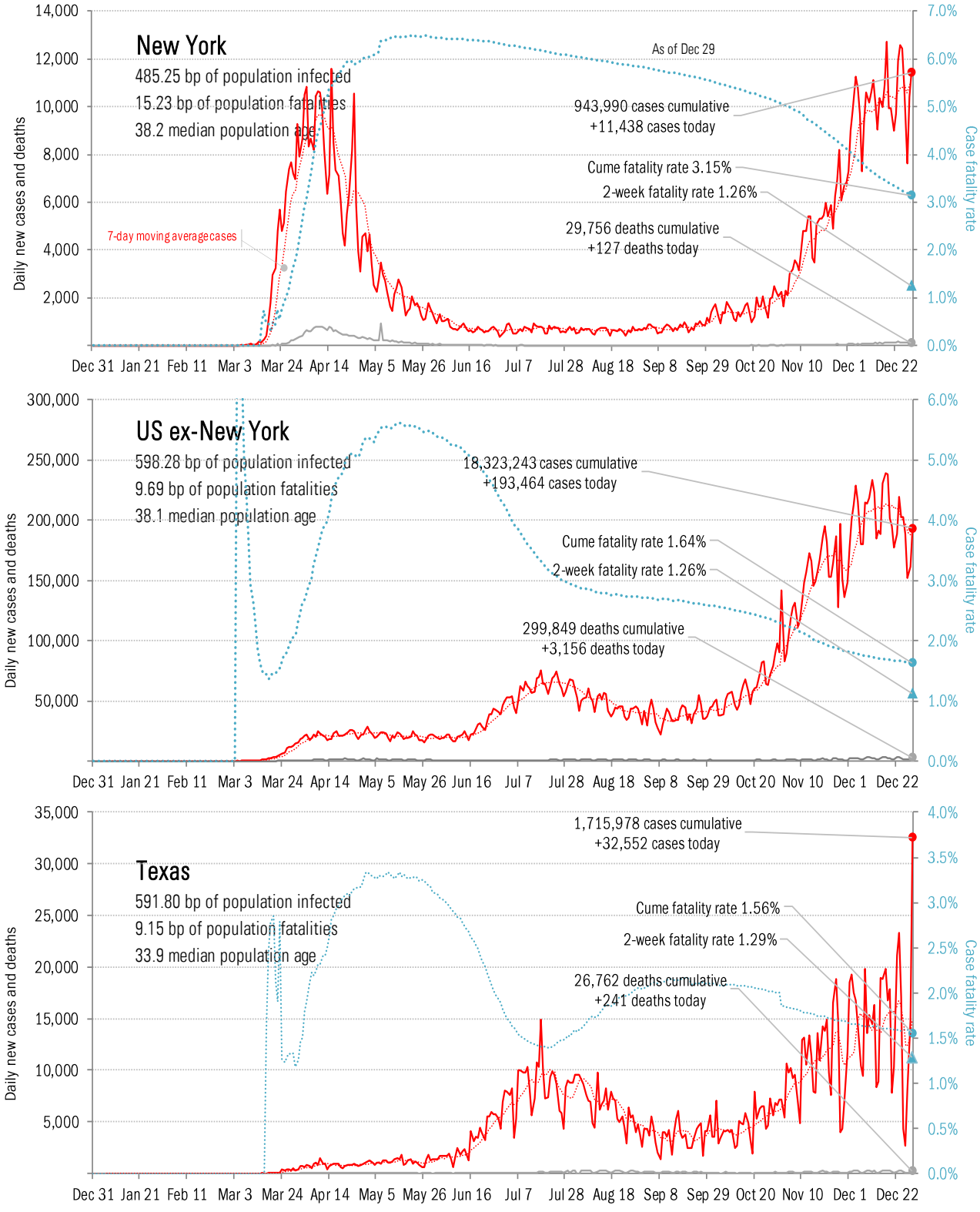


Healthcare system stress, peak and ultimate estimated at each model revision



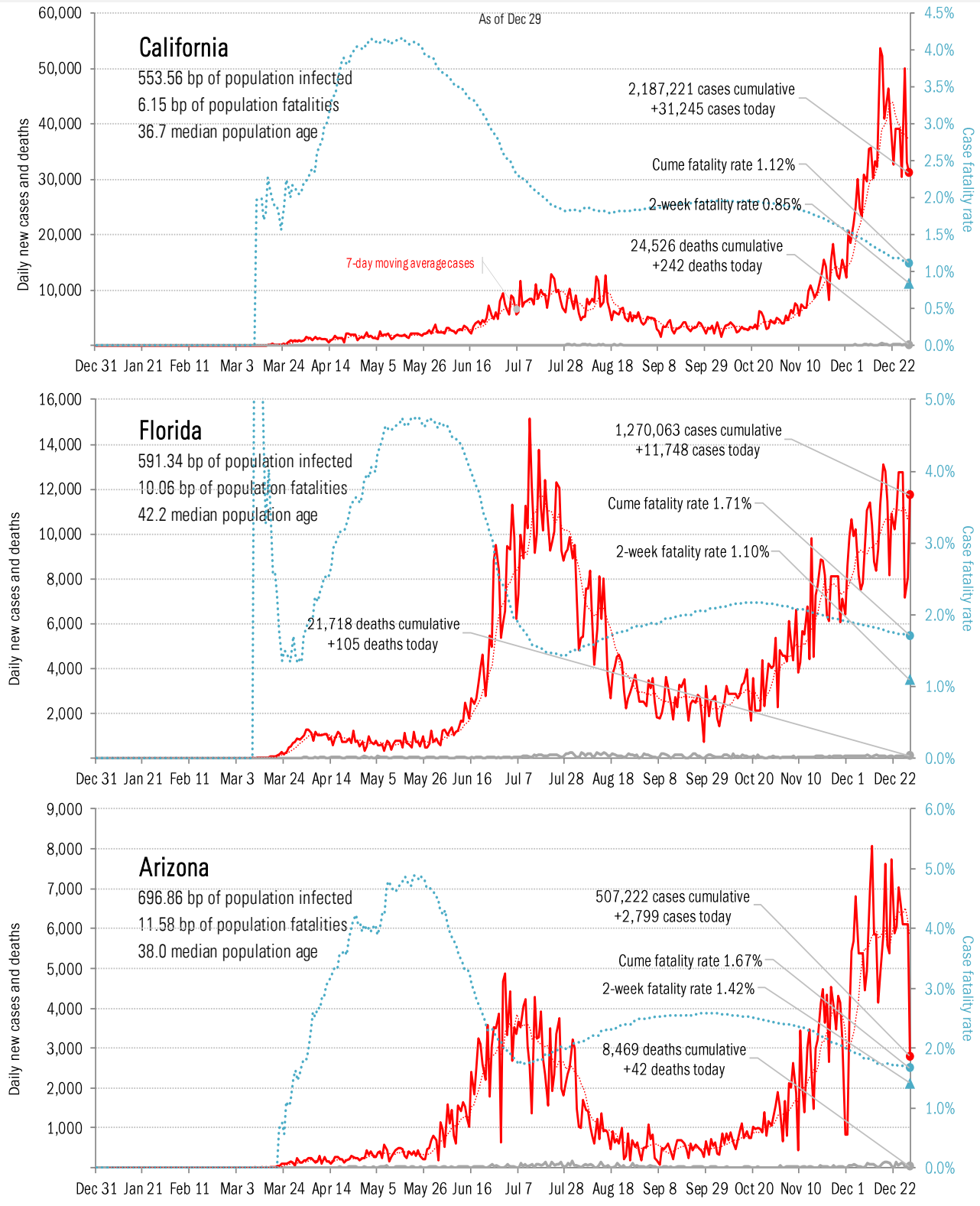
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



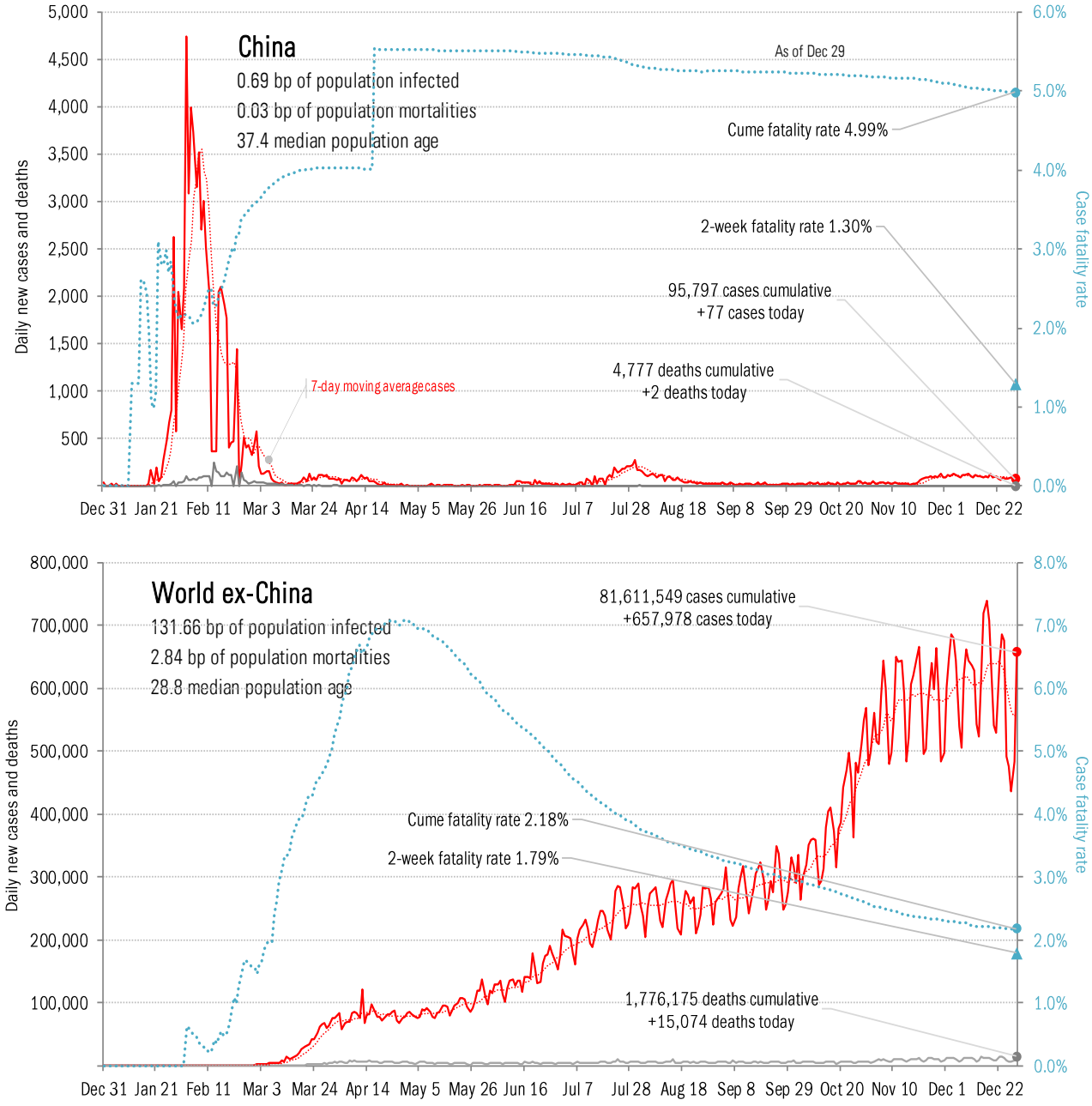
Source: Covid Tracking Project,, TrendMacro calculations

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



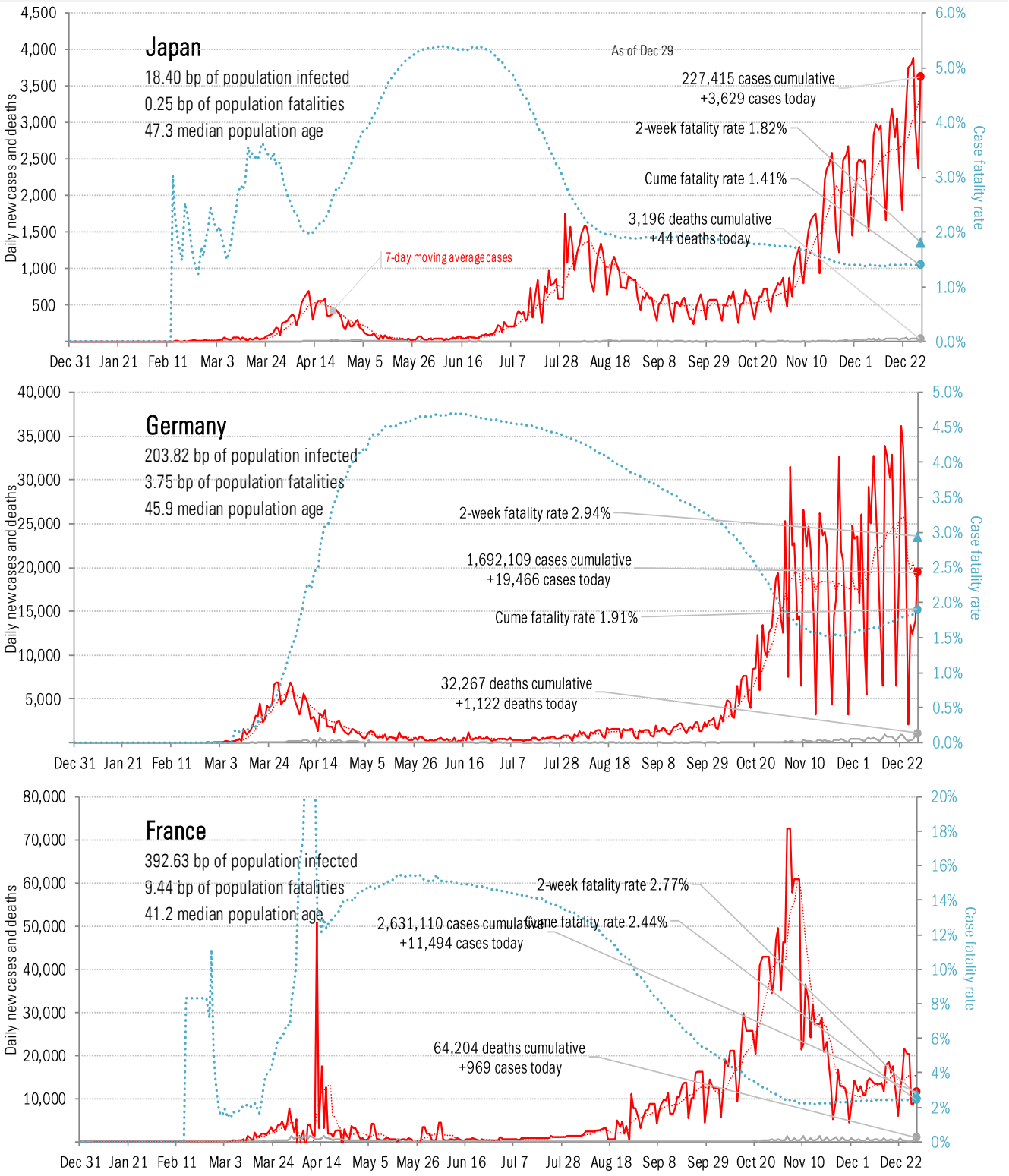
Source: Covid Tracking Project,, TrendMacro calculations

Patient zero… and then everyone else



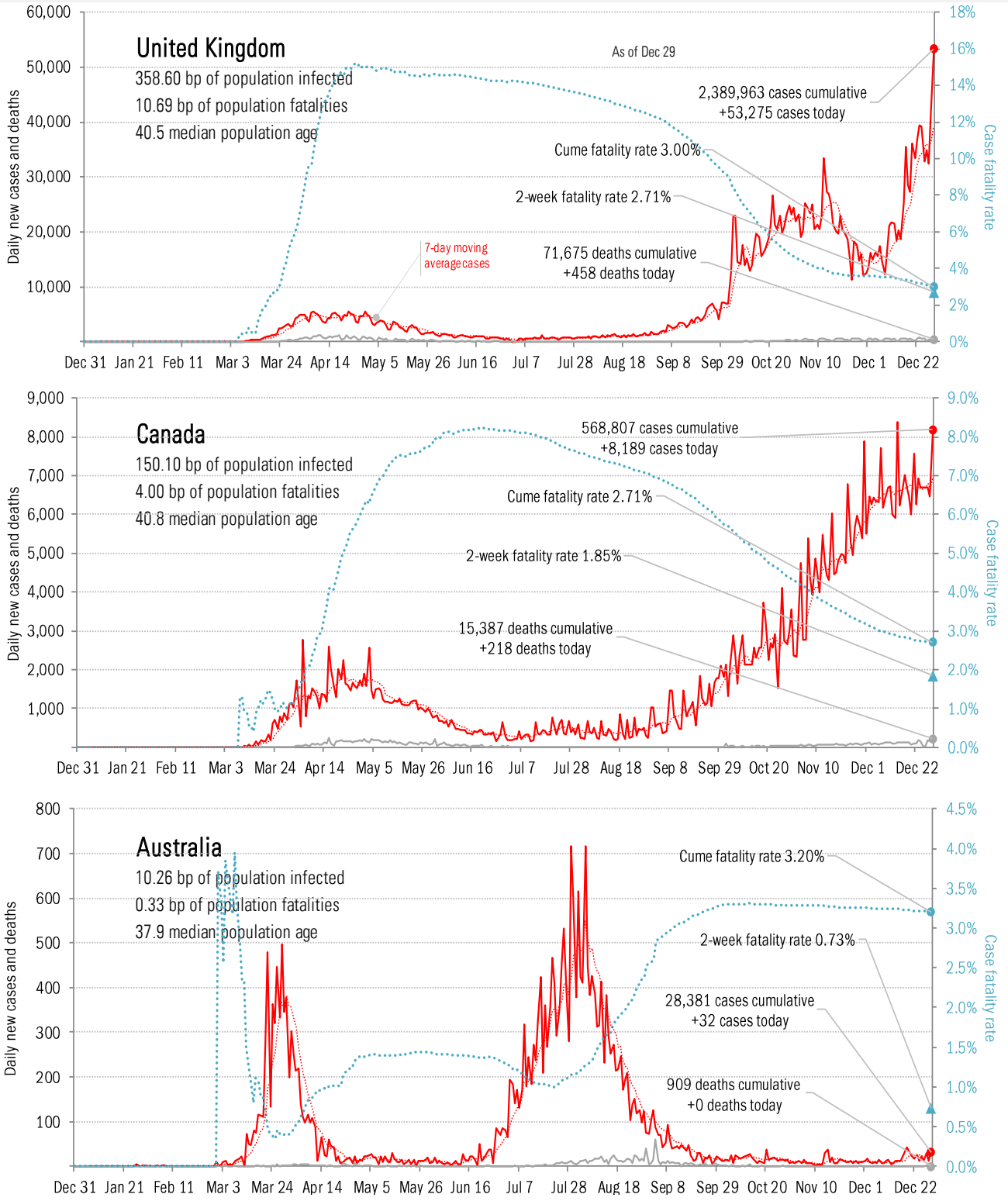
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



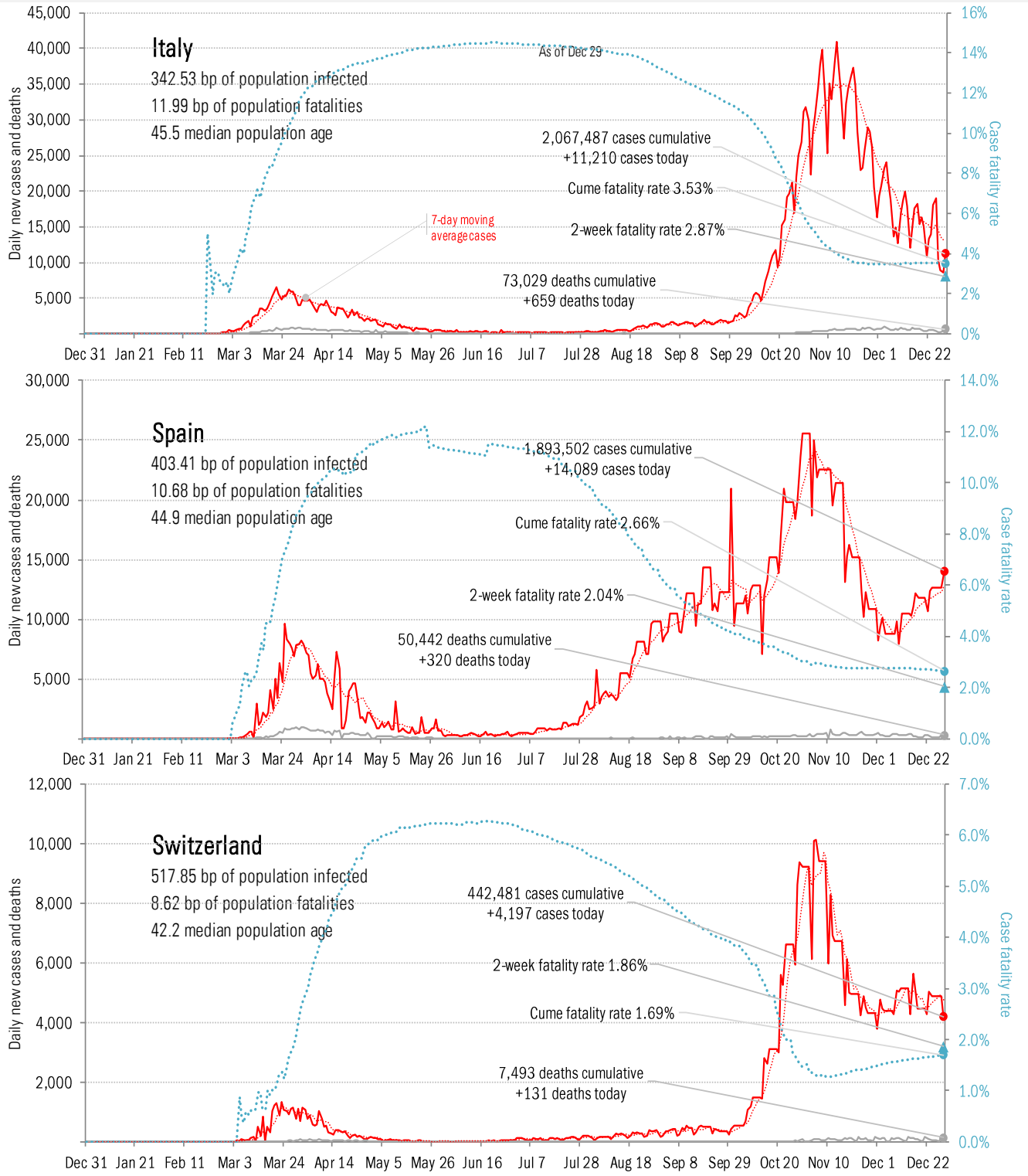
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



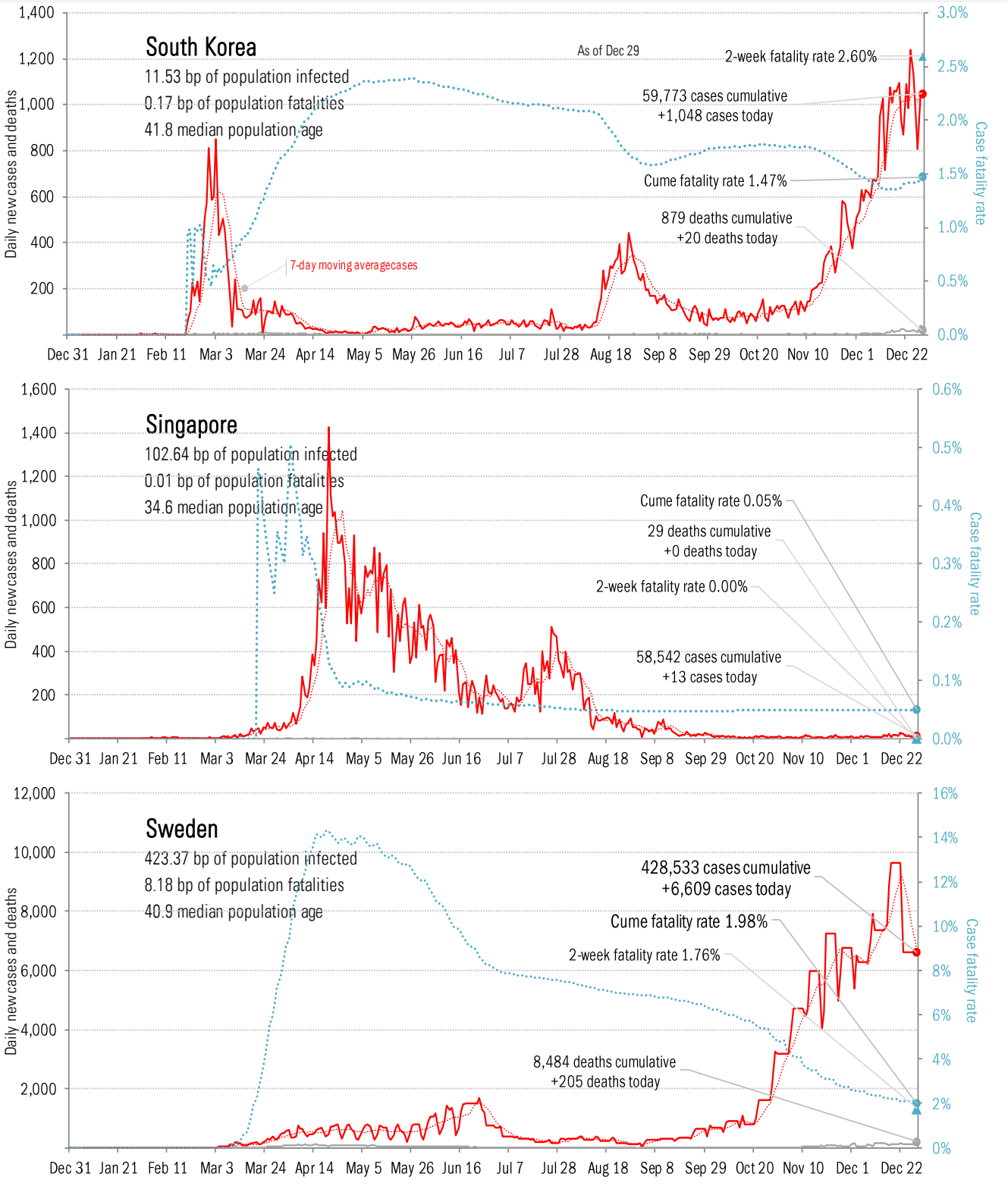
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



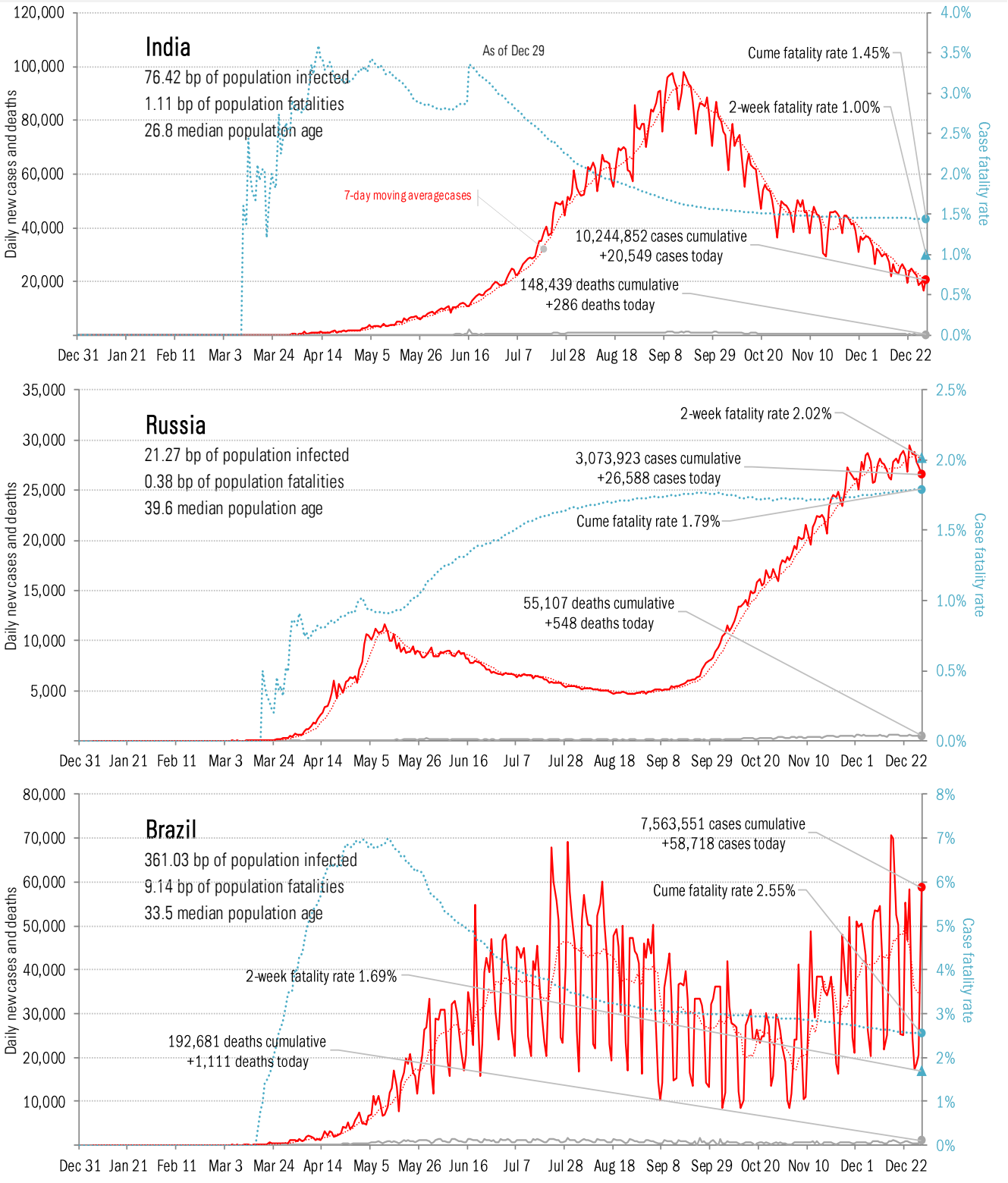
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



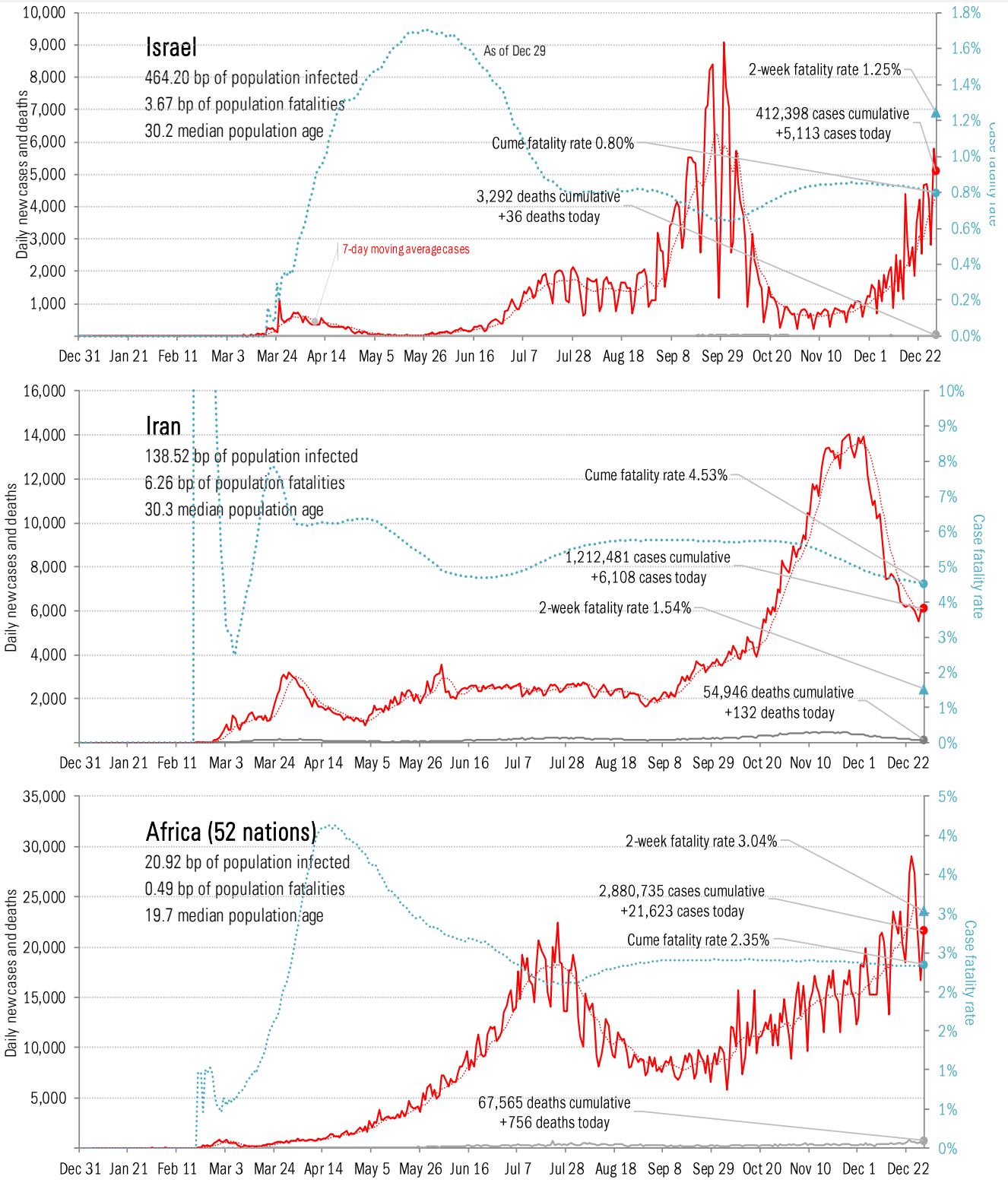
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations