Trend Macrolytics, LLC
Donald Luskin, Chief Investment Officer
Thomas Demas, Managing Director
Michael Warren, Energy Strategist

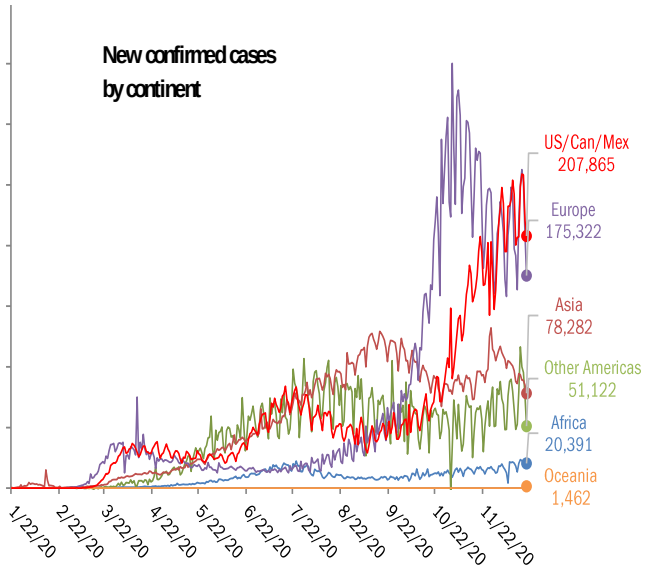
Data Insights: Covid-2019 Monitor

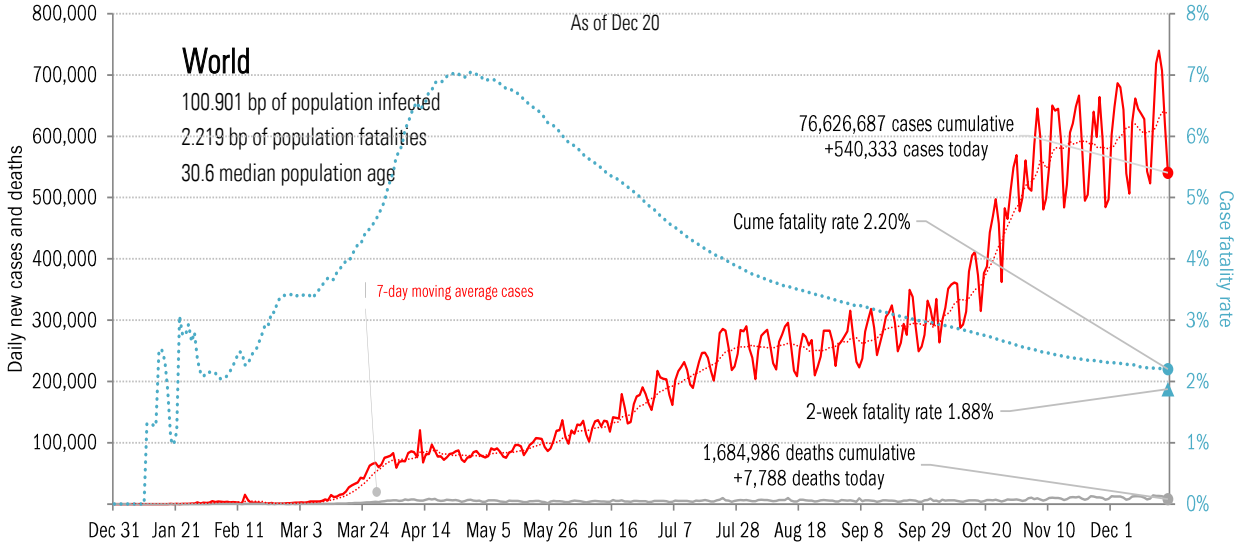
Monday, December 21, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+194,988	United States	+1,618
United Kingdom	+36,084	Russia	+498
Russia	+28,510	Brazil	+408
Brazil	+25,445	Italy	+352
India	+24,337	India	+333
Turkey	+20,316	Mexico	+326
Italy	+15,102	United Kingdom	+326
Netherlands	+13,072	Turkey	+246
France	+12,799	Germany	+229
Colombia	+11,160	Indonesia	+221
	+381,813		+4,557
World	+540,333	World	+7,788
Top ten	71%	Top ten	59%





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

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The US scorecard

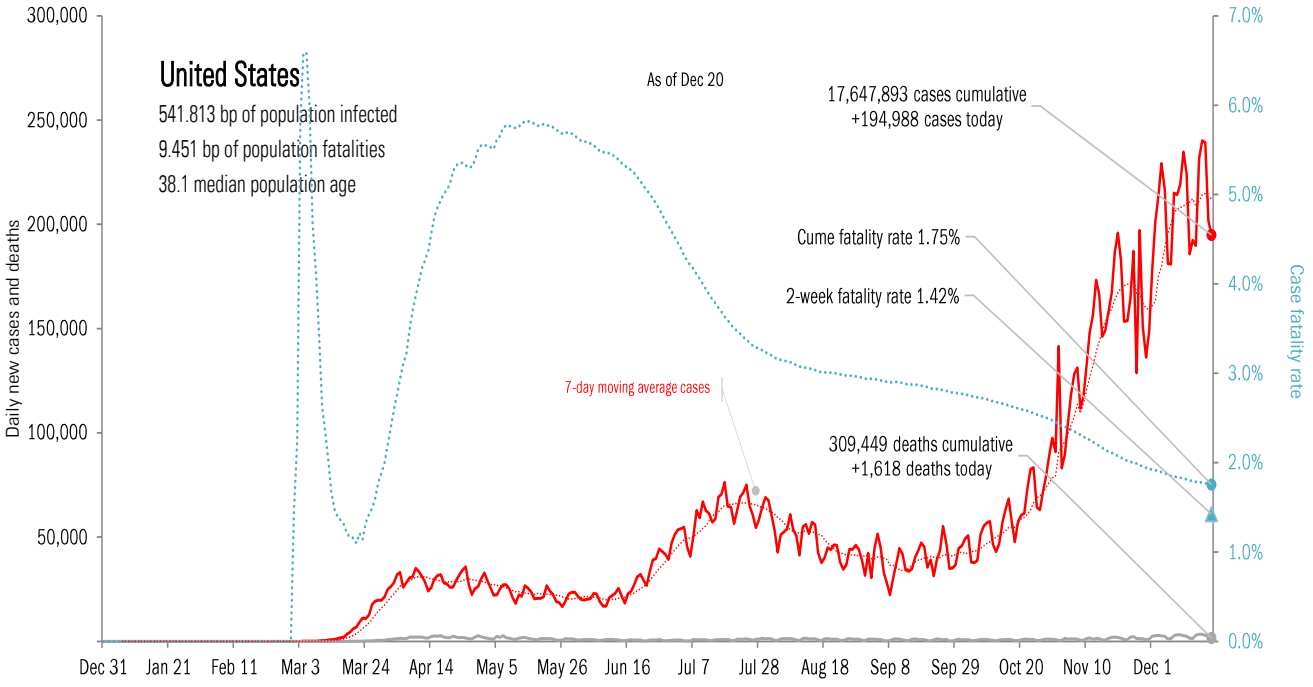
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	+46,474	CA	+161	CA	+352	CA	1,854,456	NY	28,598	NY	89,995	DC	76%	OK	96%
TN	+16,036	NY	+124	FL	+149	TX	1,581,668	TX	25,348	FL	60,791	NY	74%	TX	90%
NY	+9,957	TX	+122	GA	+108	FL	1,181,549	CA	22,593	NJ	45,182	MA	72%	AZ	90%
OH	+8,377	TN	+111	TX	+60	IL	900,370	FL	20,861	GA	39,412	MD	72%	TN	89%
FL	+8,140	PA	+99	MO	+36	NY	848,042	NJ	18,194	OH	34,747	DE	71%	DC	87%
TX	+7,780	FL	+97	MD	+27	OH	622,806	IL	16,407	AZ	33,037	FL	70%	MS	85%
PA	+7,213	IL	+81	AL	+19	PA	555,702	PA	13,924	IN	32,496	WA	70%	PA	83%
NC	+6,900	MN	+70	SC	+10	TN	519,687	MI	12,074	AL	30,224	NJ	69%	GA	83%
IN	+6,483	IN	+66	NJ	+4	GA	509,588	MA	11,717	MD	24,623	VT	69%	MI	82%
IL	+6,003	MA	+60	VT	+4	MI	496,056	GA	10,383	MN	20,547	CT	68%	CO	81%
	+123,363		+991		+769		9,069,924		180,099		411,054				
All states	+194,988		+1,618		-266	All states	17,647,893		309,449		643,866	All states	63%		73%
Top ten	63%		61%		-289%	Top ten	51%		58%		64%	Median	61%		70%

Some states not reporting

Five most improved US states

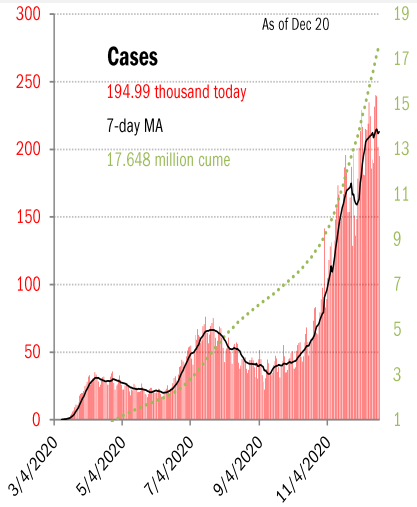
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TX	-10,127	MI	-206	AZ	-198	TN	+9,713
MI	-4,181	TX	-150	IL	-169	TX	+8,030
FL	-3,316	PA	-118	NY	-150	OH	+7,207
PA	-2,621	CA	-111	TN	-121	MN	+4,292
WI	-2,270	AL	-93	NC	-120	WI	+3,423

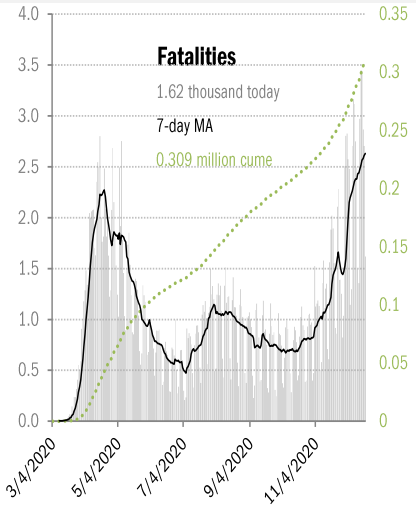


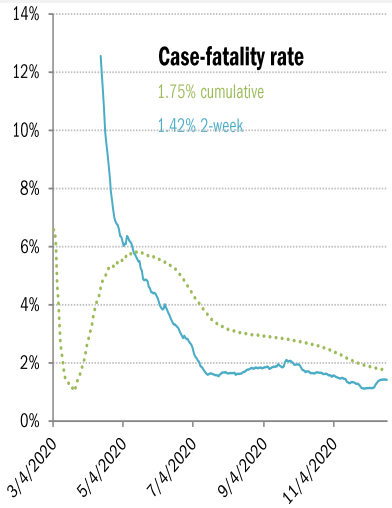
Source: Covid Tracking Project, TrendMacro calculations

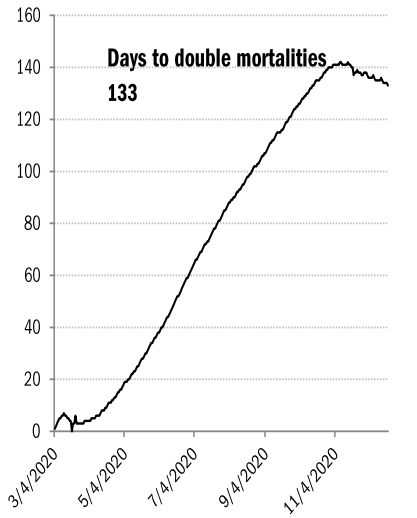
US deep-dive

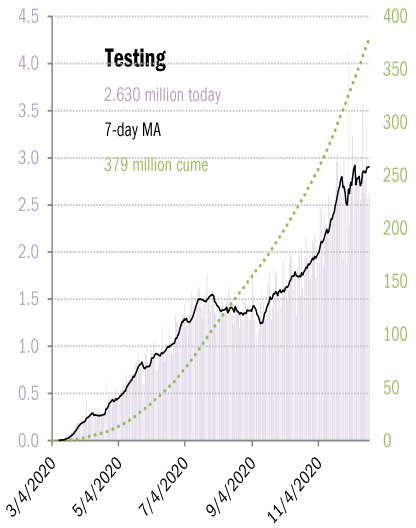
National and state-by-state data do not line up because of different sources

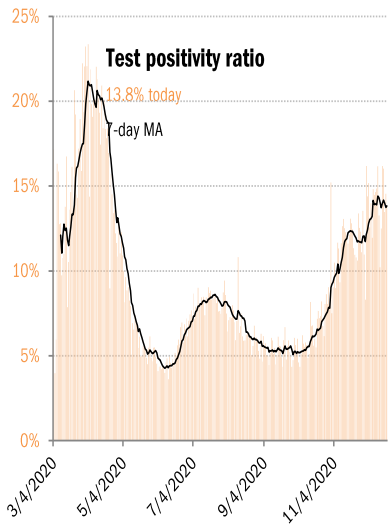


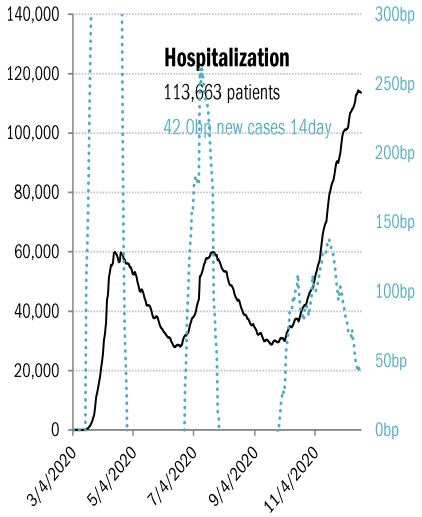


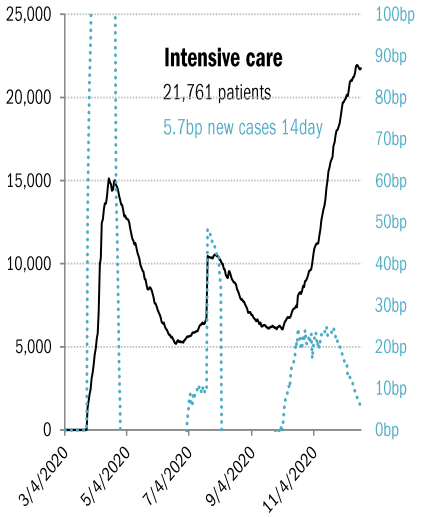


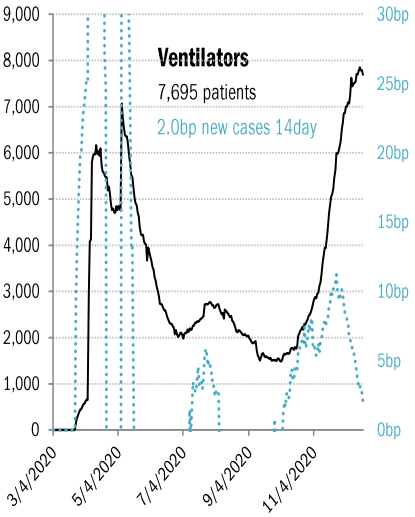






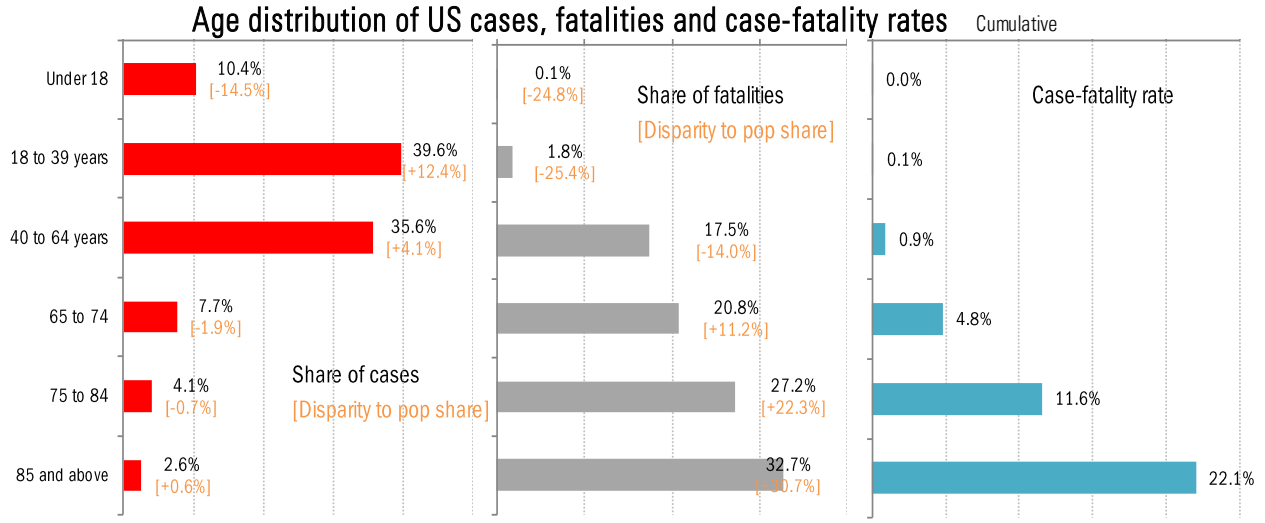


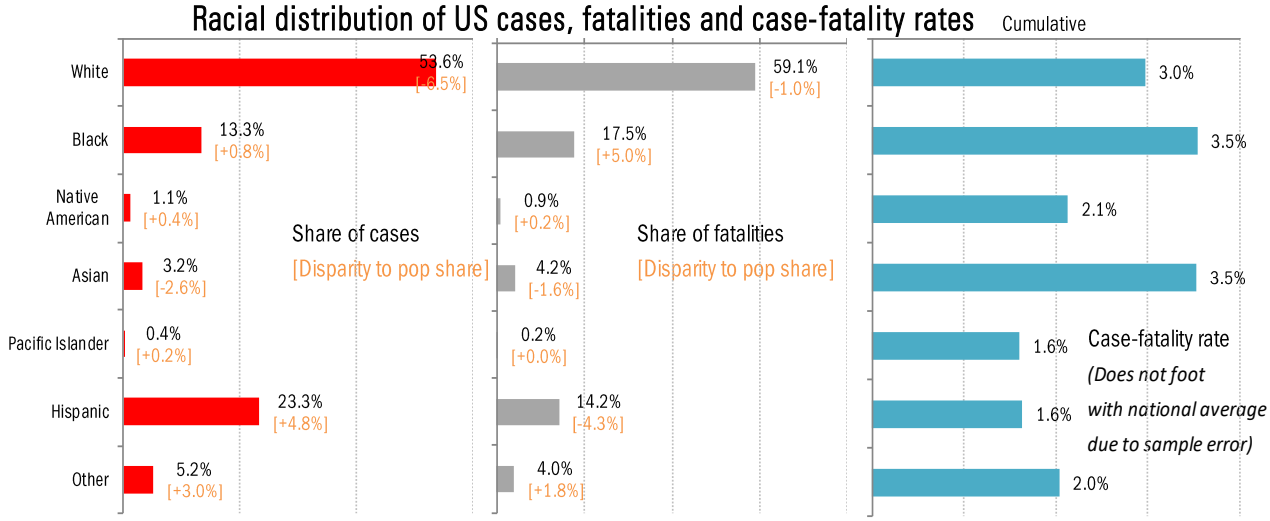


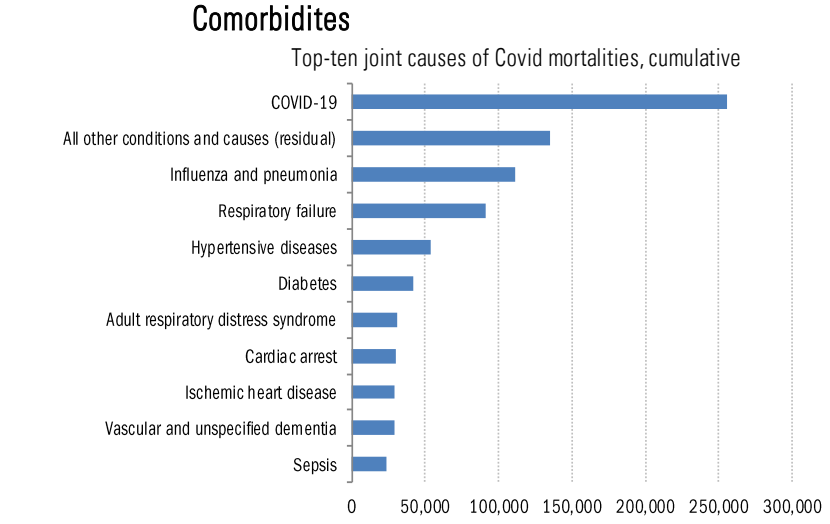


Source: Covid Tracking Project, TrendMacro calculations

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







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

[Why Are Covid Antibody Drugs Sitting on Shelves?]
Scott Gottlieb and Mark McClellan
Wall Street Journal
December 20, 2020

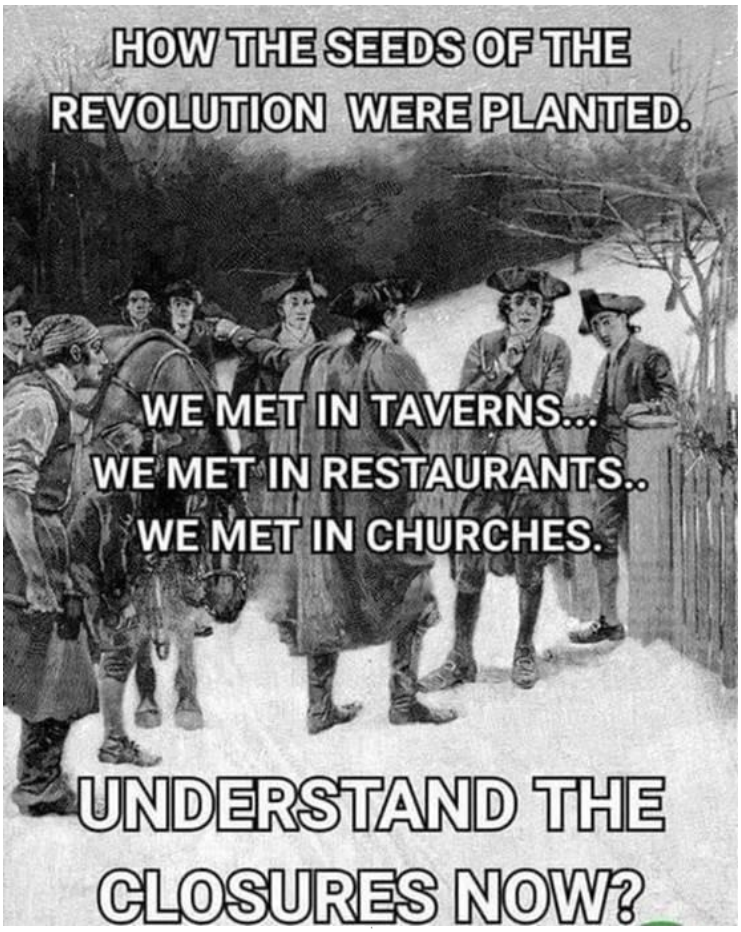
[United Helps to Contact Passengers After Possible Covid-19-Related Death on Flight]
Michael Levenson
New York Times
December 18, 2020

[Frontline Workers and People Over 74 Should Get Shots Next, C.D.C. Panel Says]
Abby Goodnough and Jan Hoffman
New York Times
December 20, 2020

[Vaccines Don't Mean We'll See the Last of Covid, Experts Warn]
John Lauerman and James Paton
Bloomberg
December 20, 2020

[Inside the Cutthroat World of China Mutual Fund Livestreaming]
Bloomberg
December 16, 2020

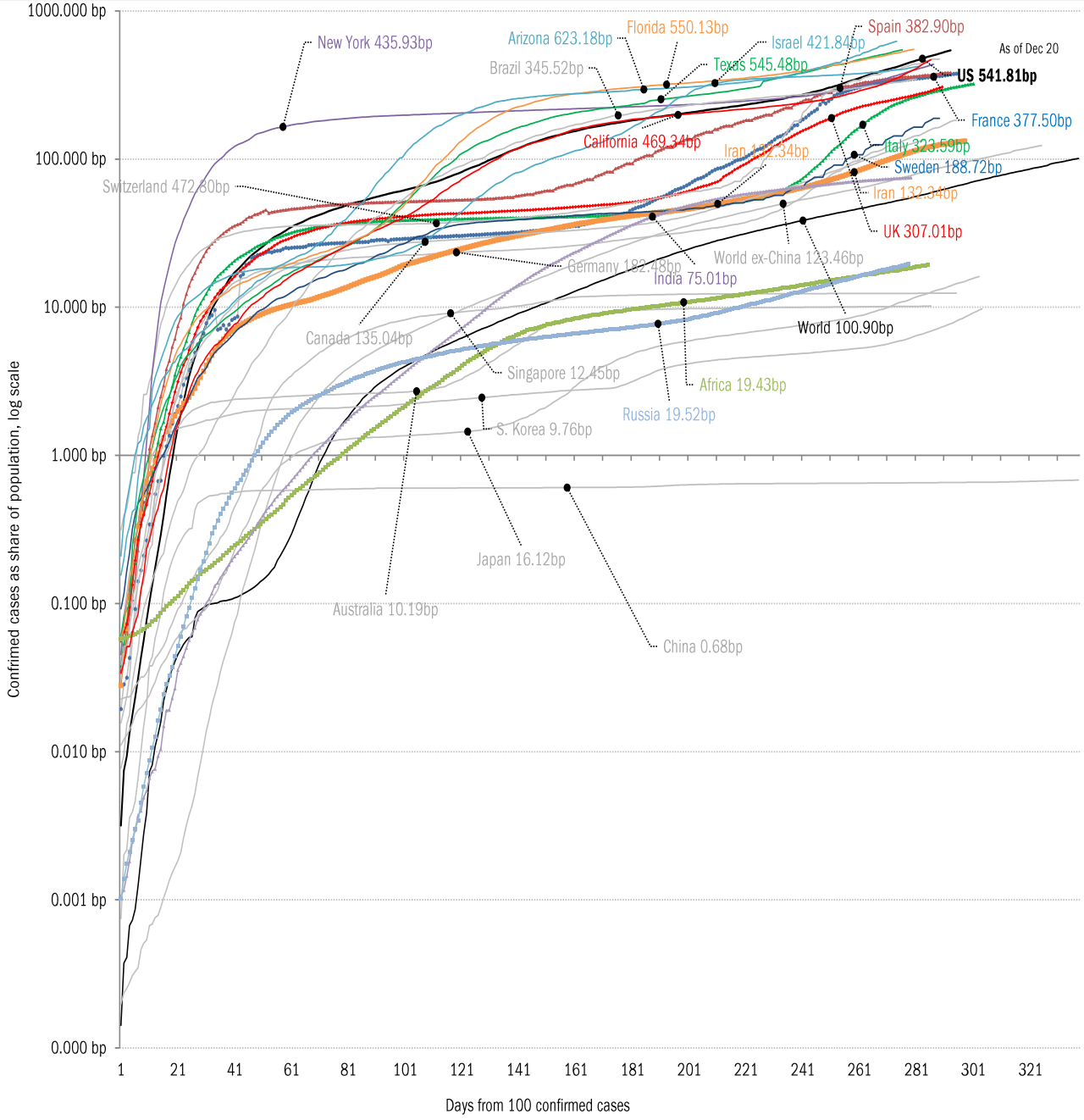
Meme of day



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

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

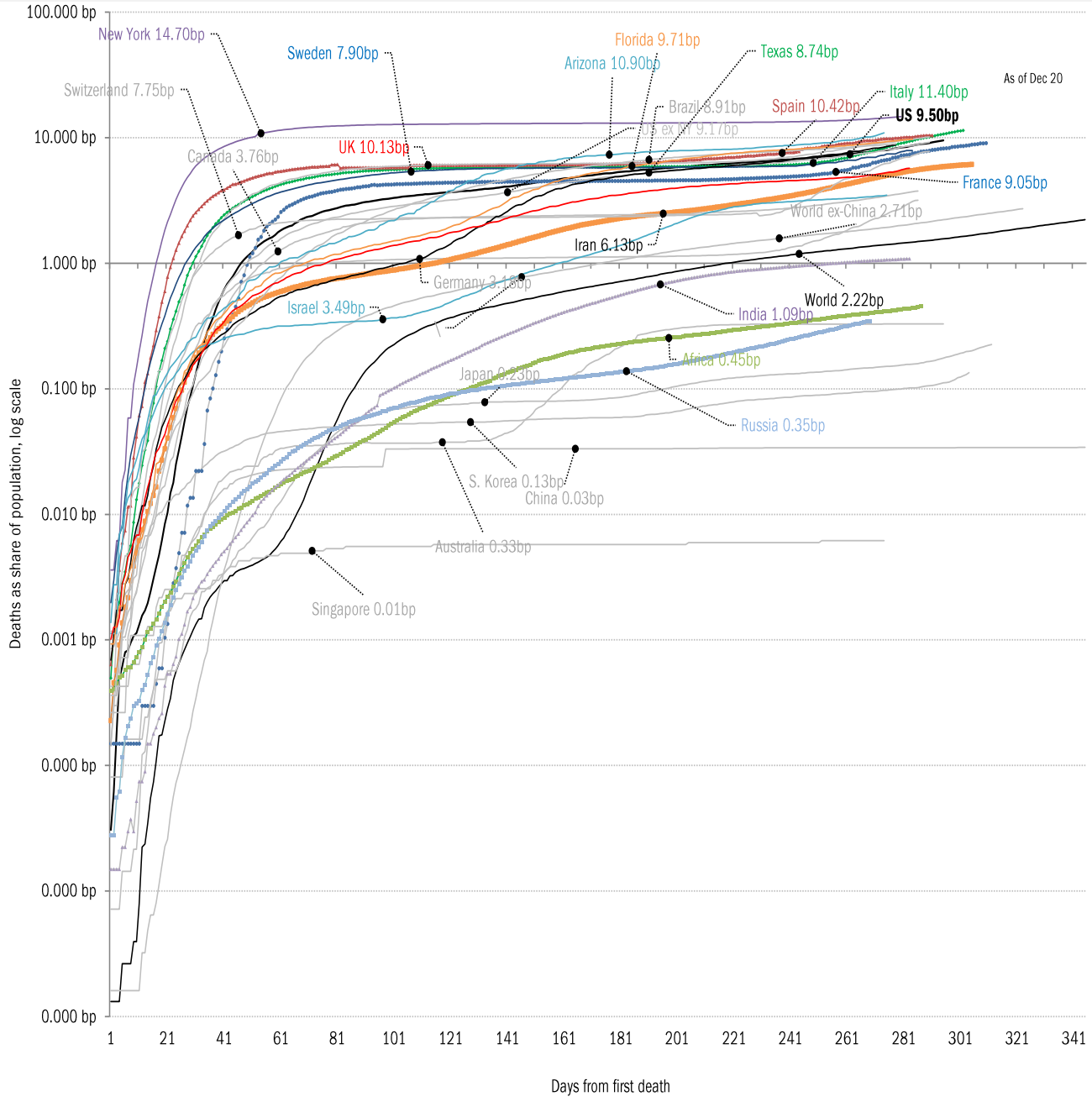
Share of infected population from first day with 100 confirmed cases, log scale



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

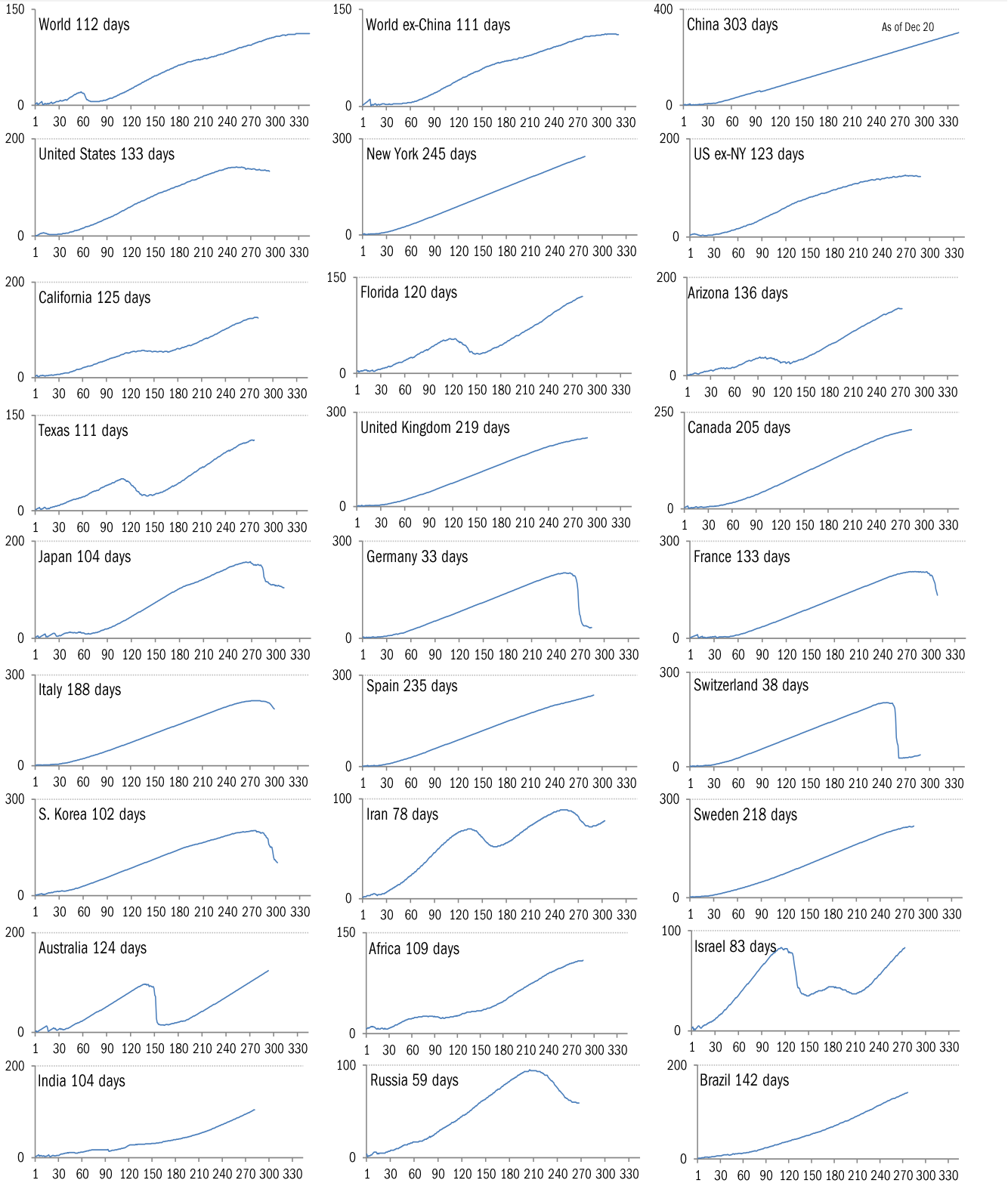


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

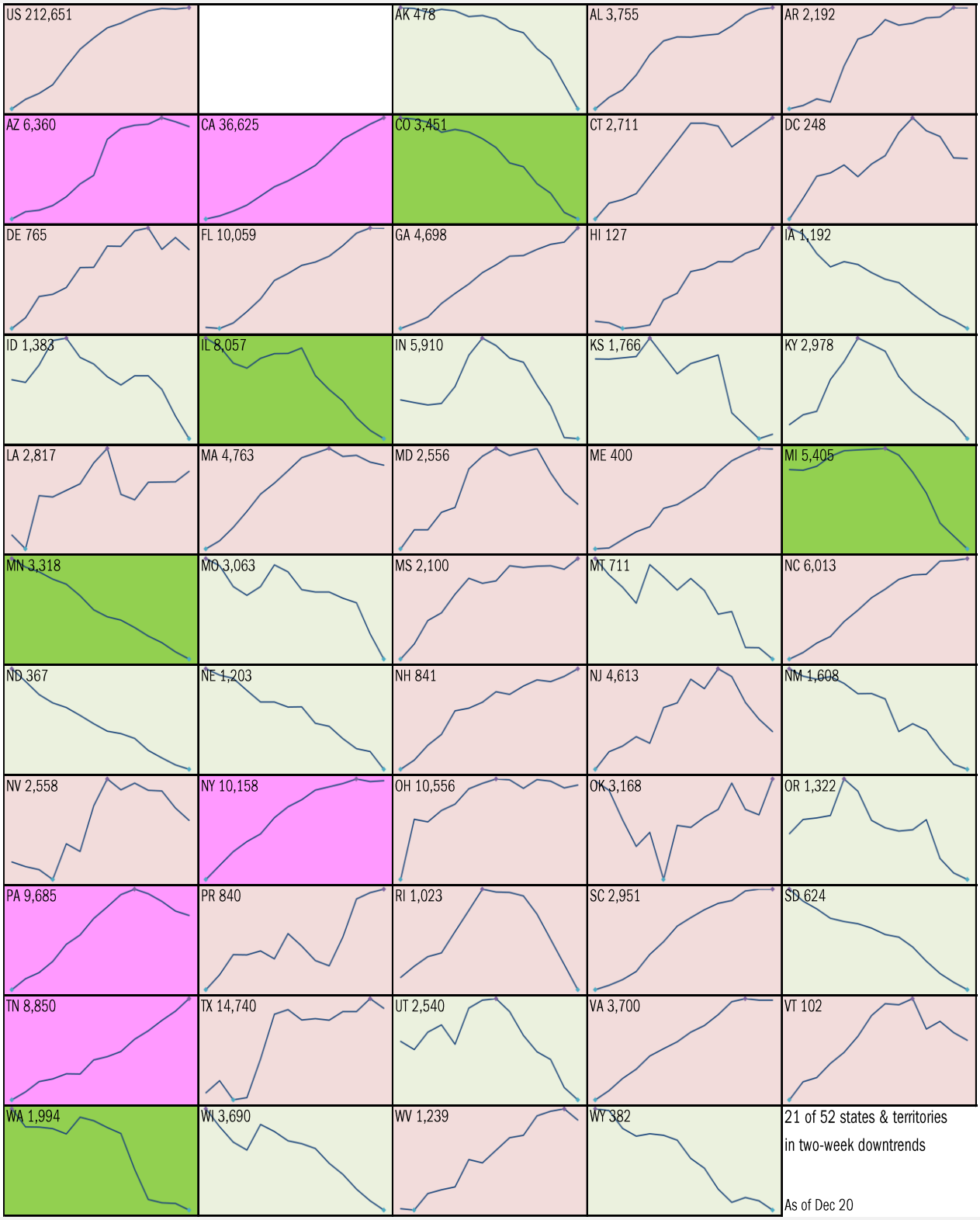


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

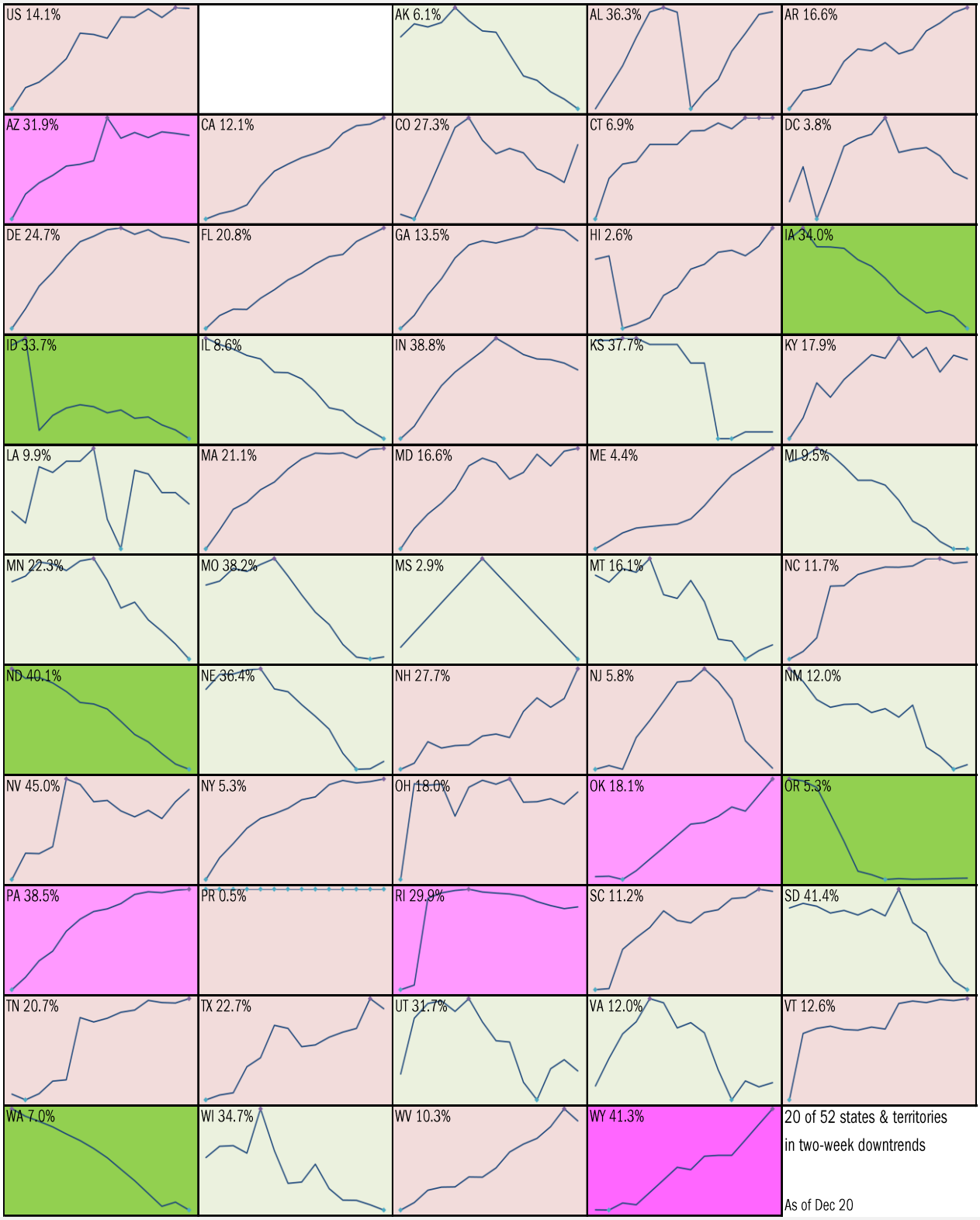


Source: Covid Tracking Project, TrendMacro calculations

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

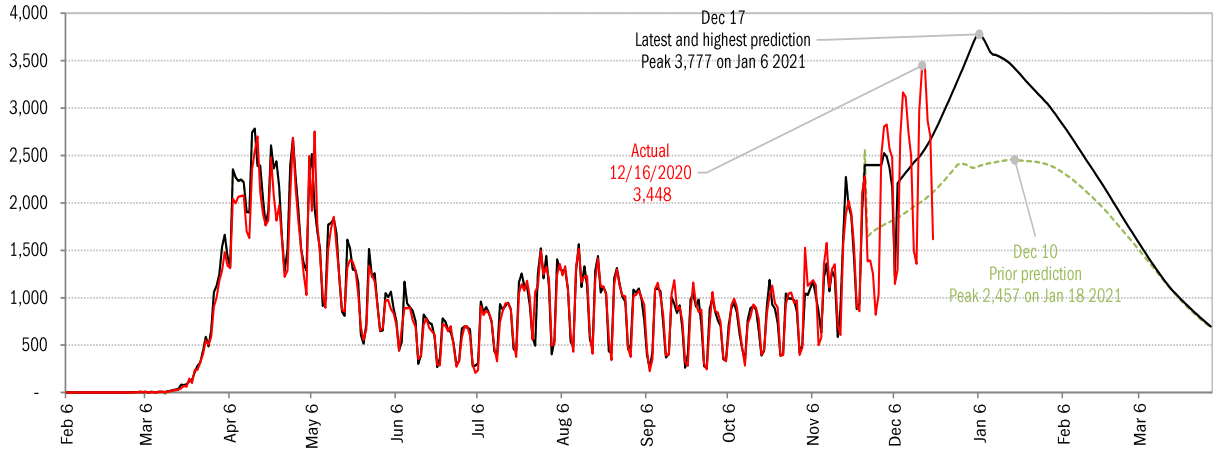


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

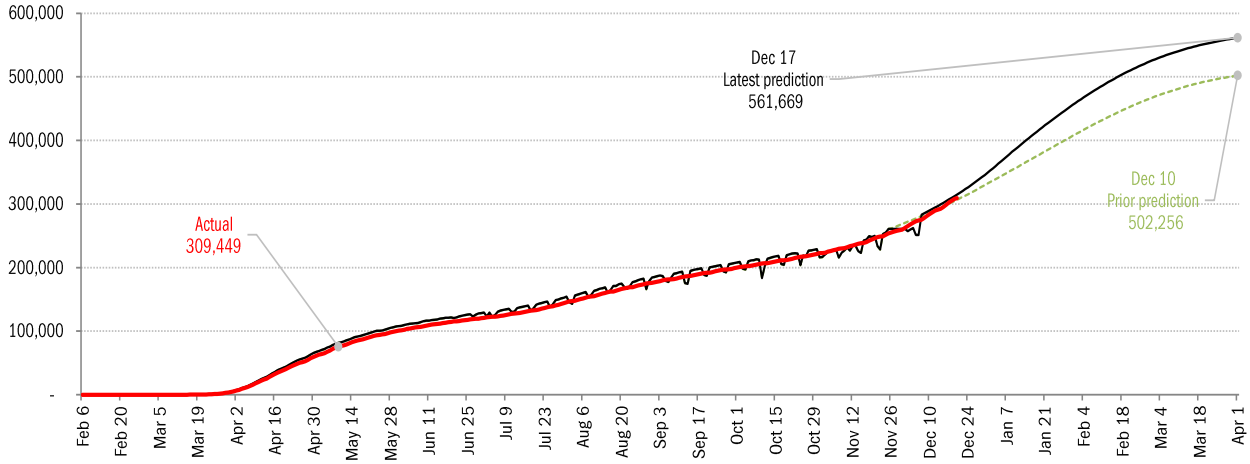
New daily fatalities As of Dec 20

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

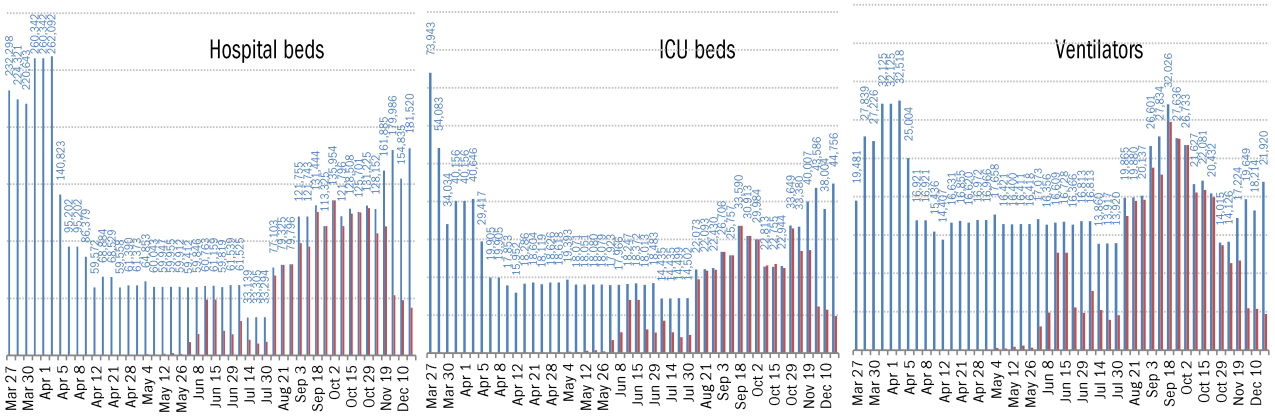


Cumulative fatalities

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

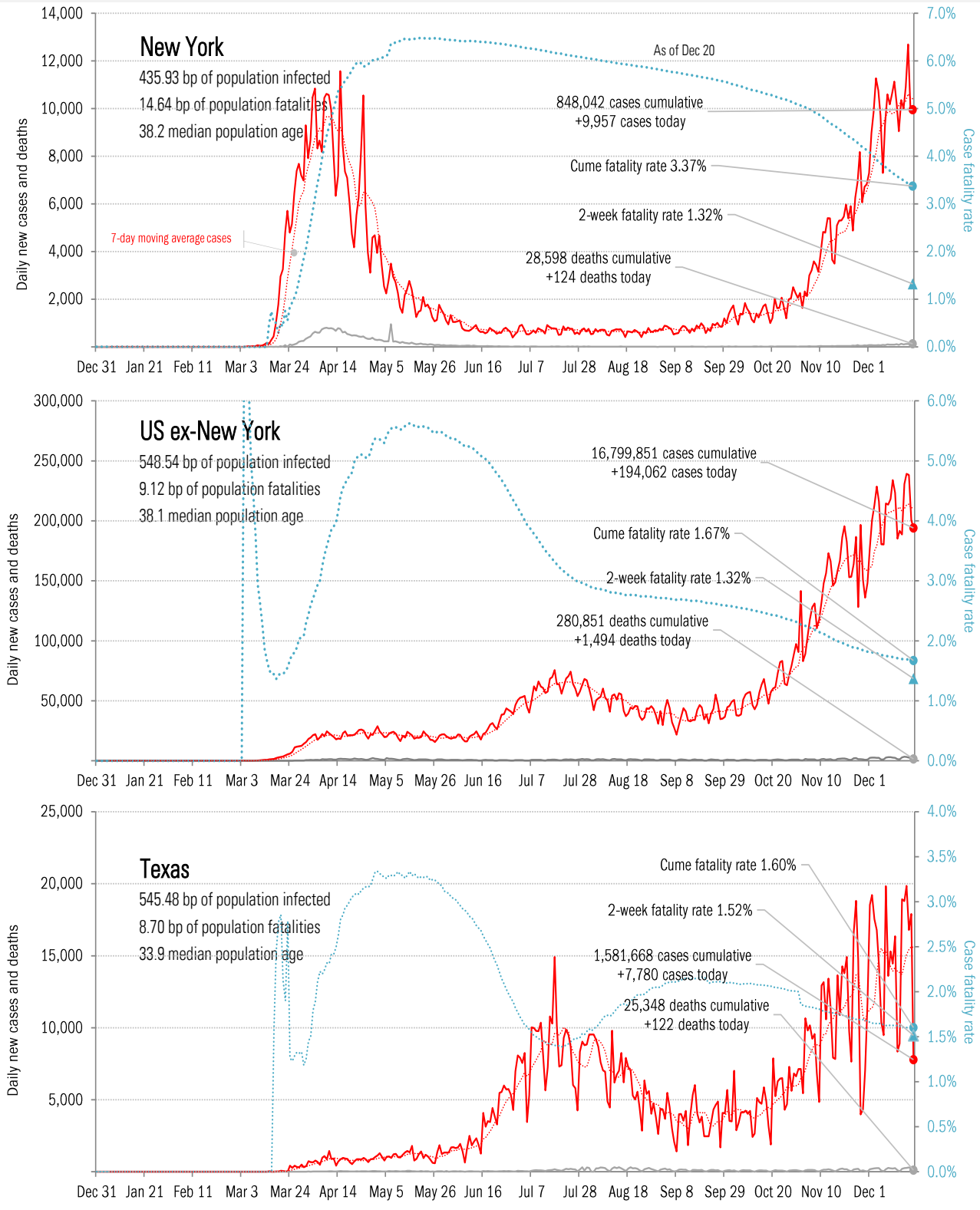


Healthcare system stress, peak and ultimate estimated at each model revision



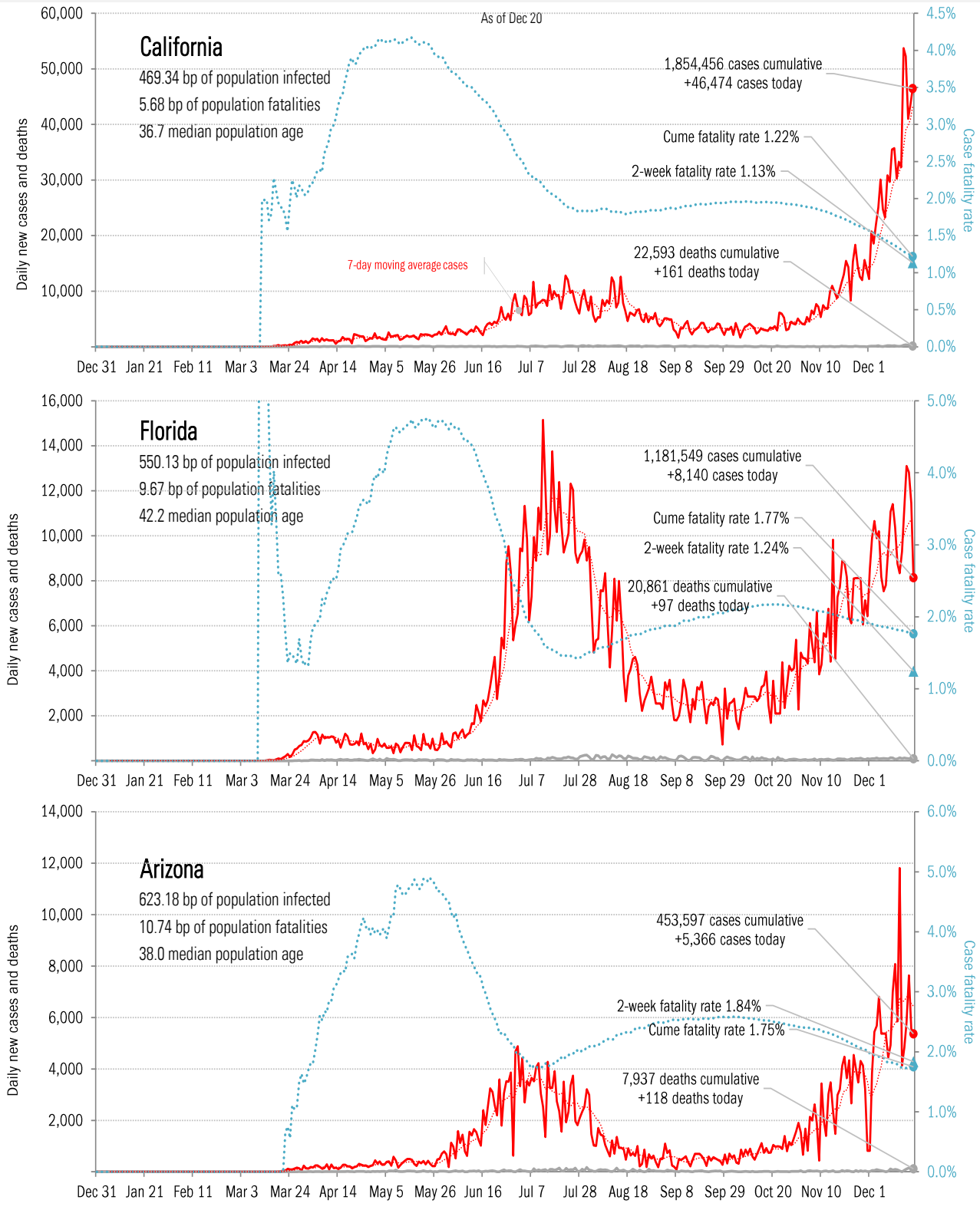
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



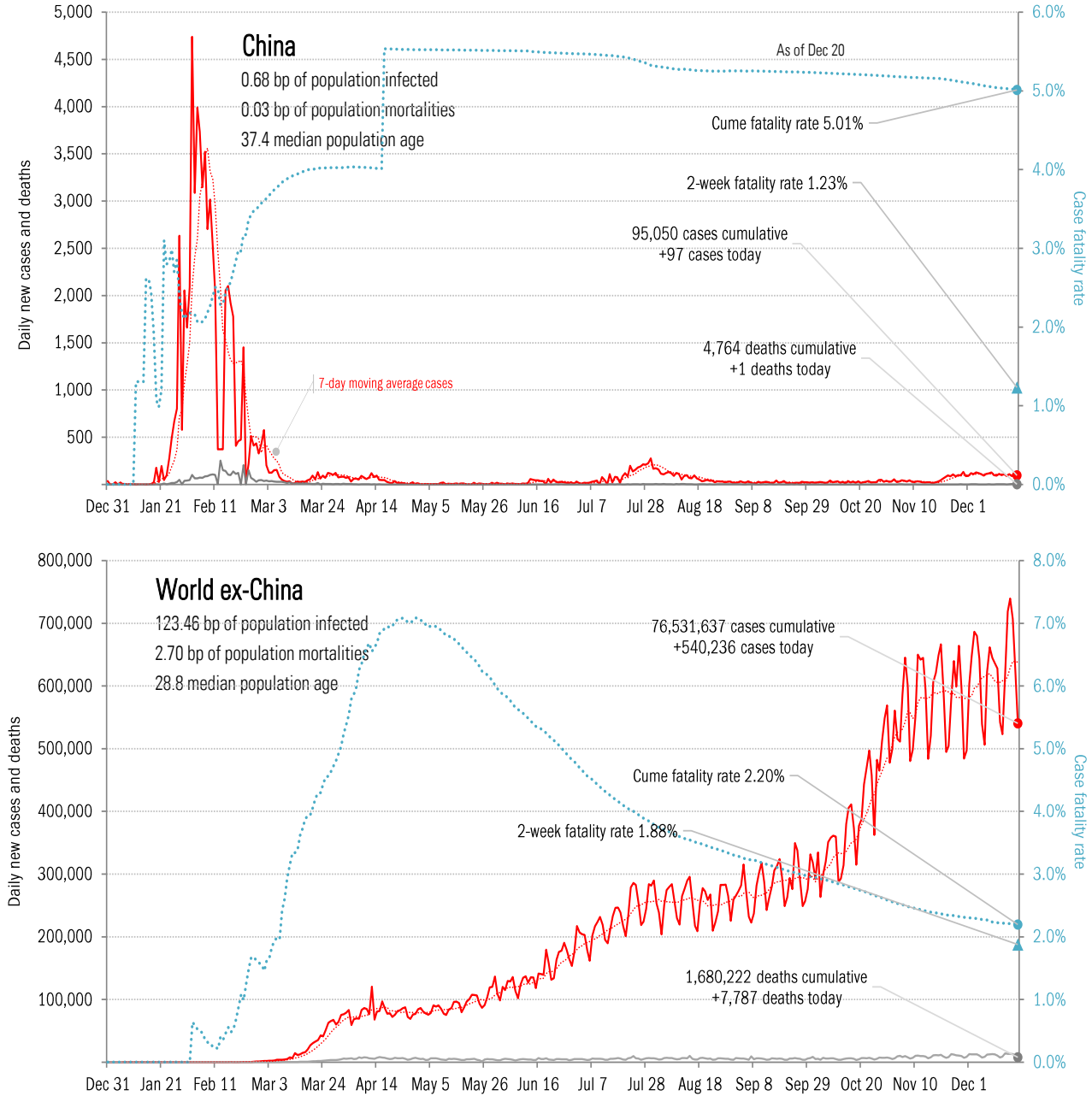
Source: Covid Tracking Project,, TrendMacro calculations

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



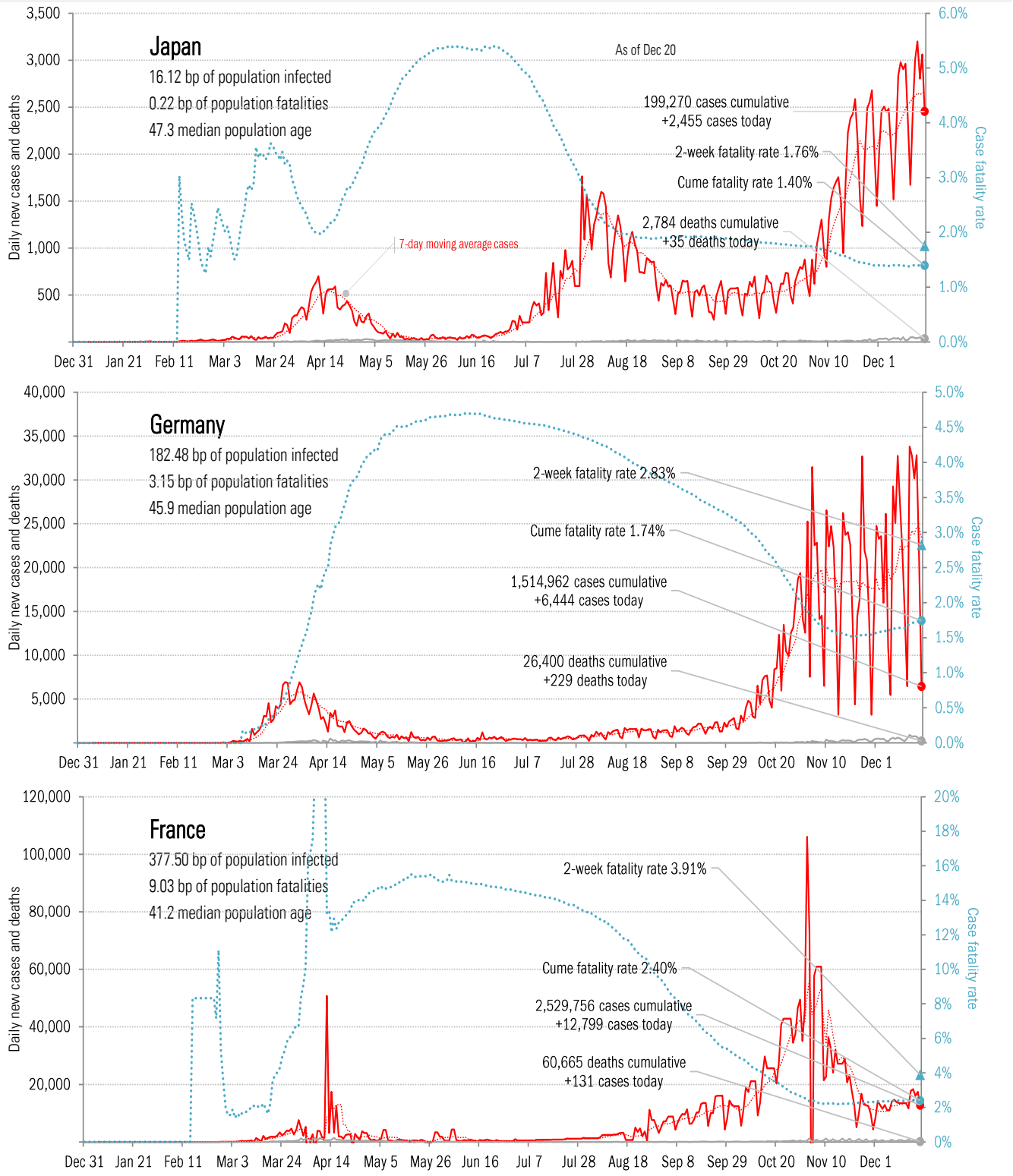
Source: Covid Tracking Project,, TrendMacro calculations

Patient zero… and then everyone else



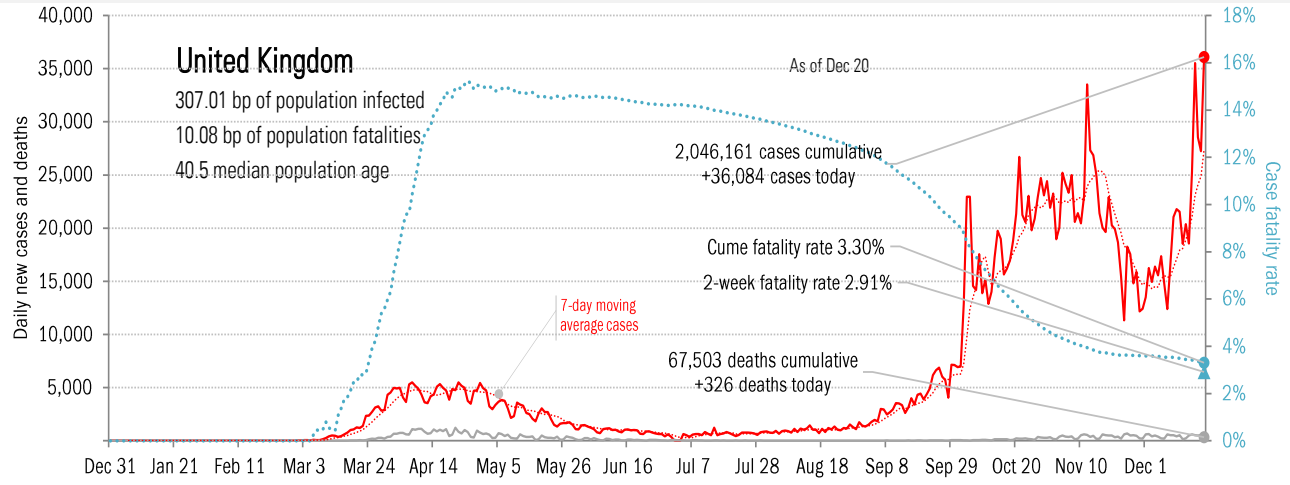
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

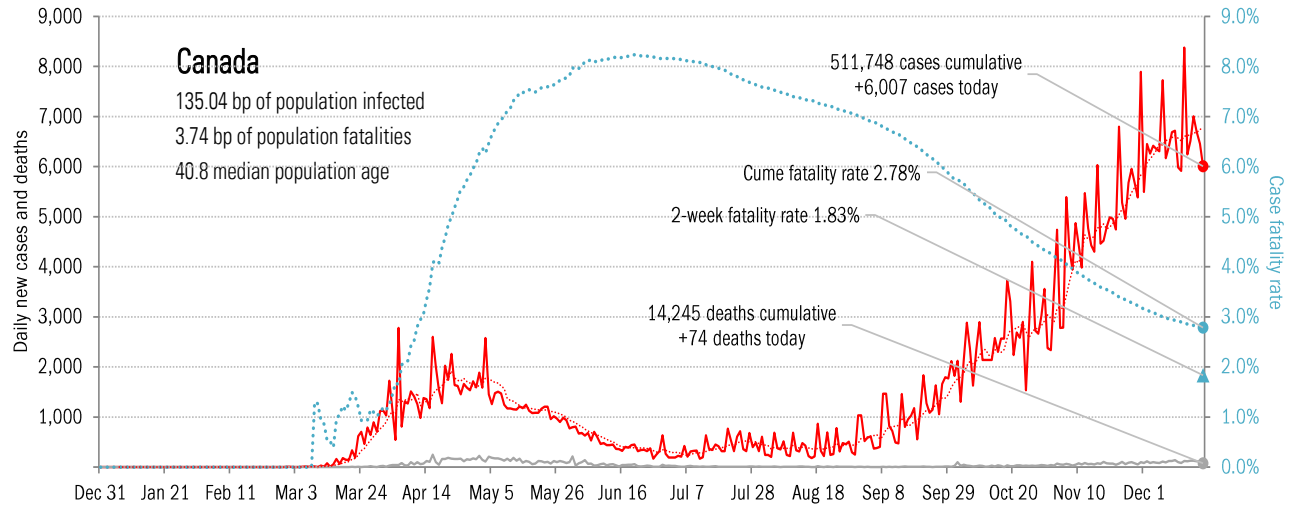
Impact in the largest economies

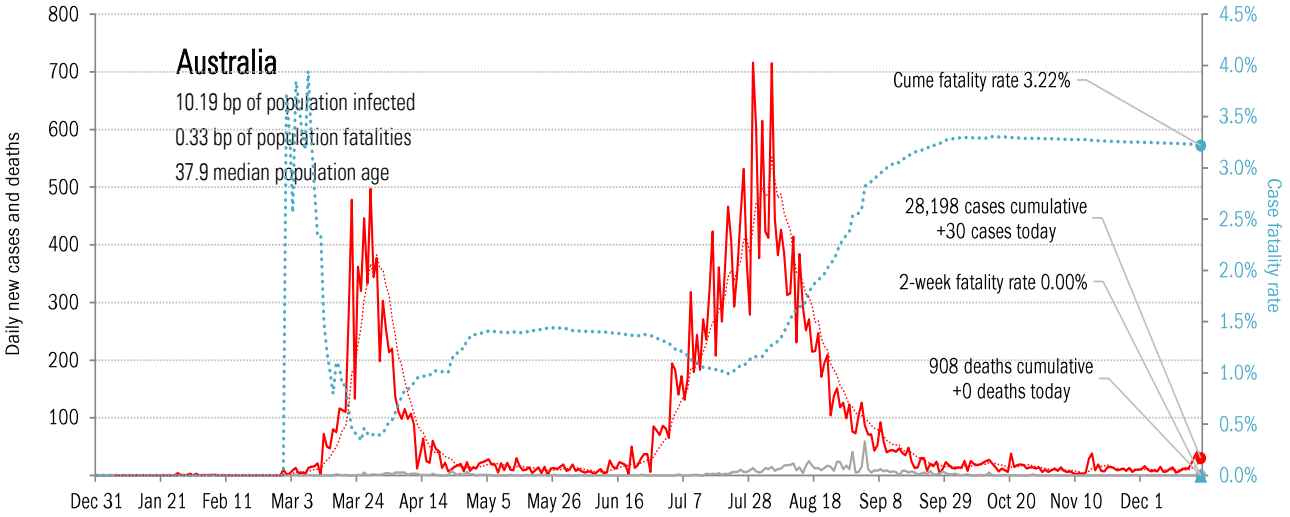


Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

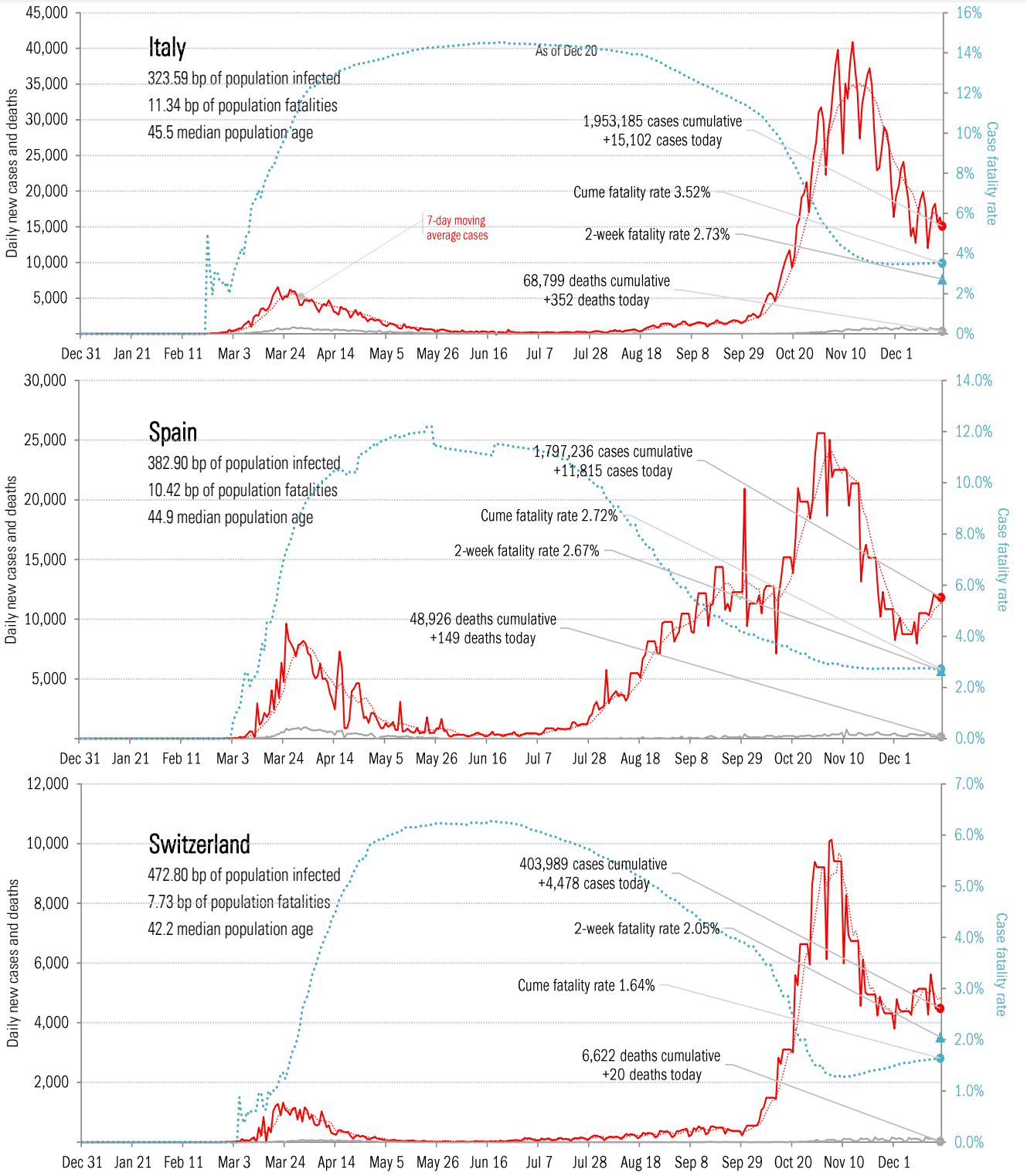






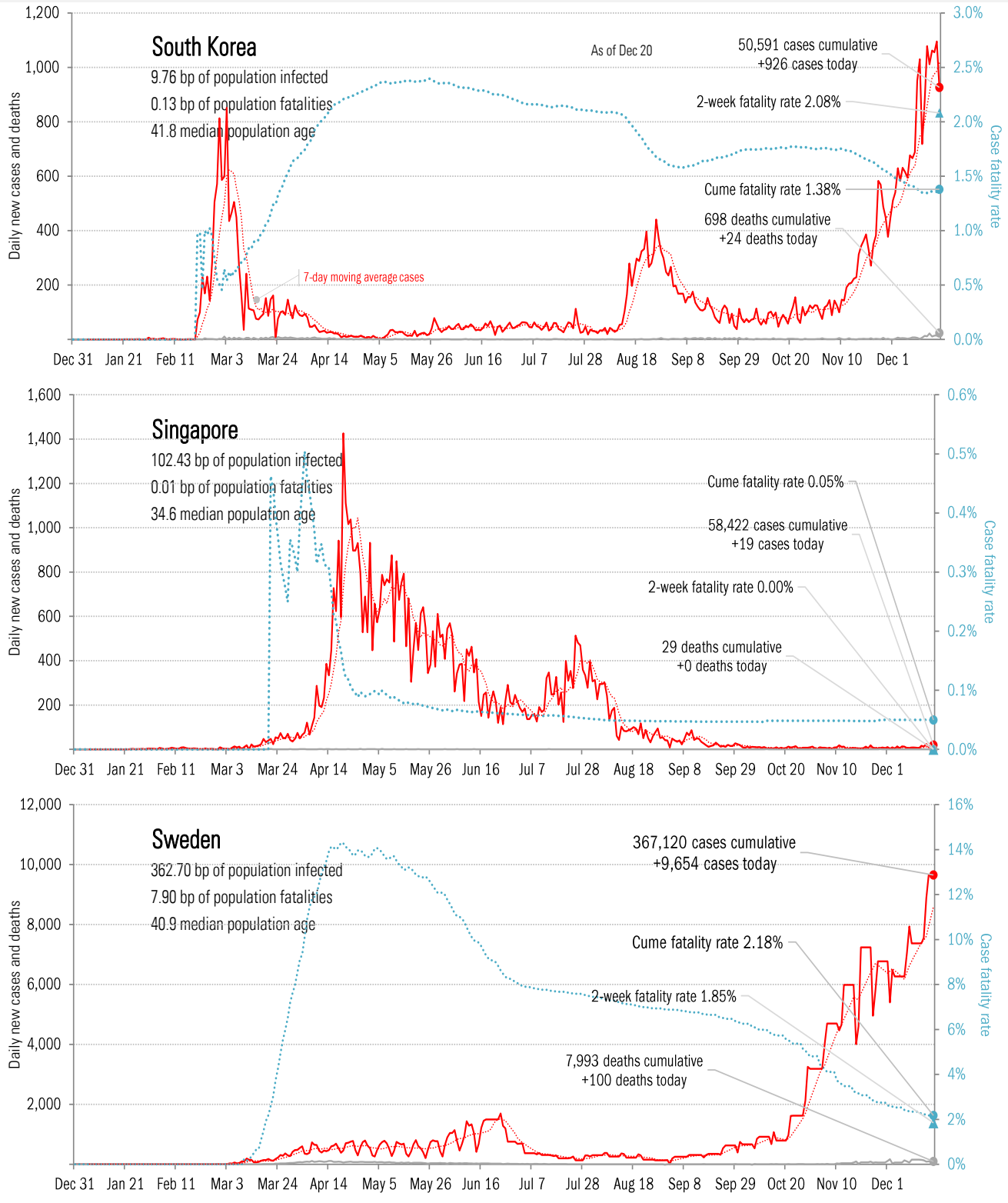
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



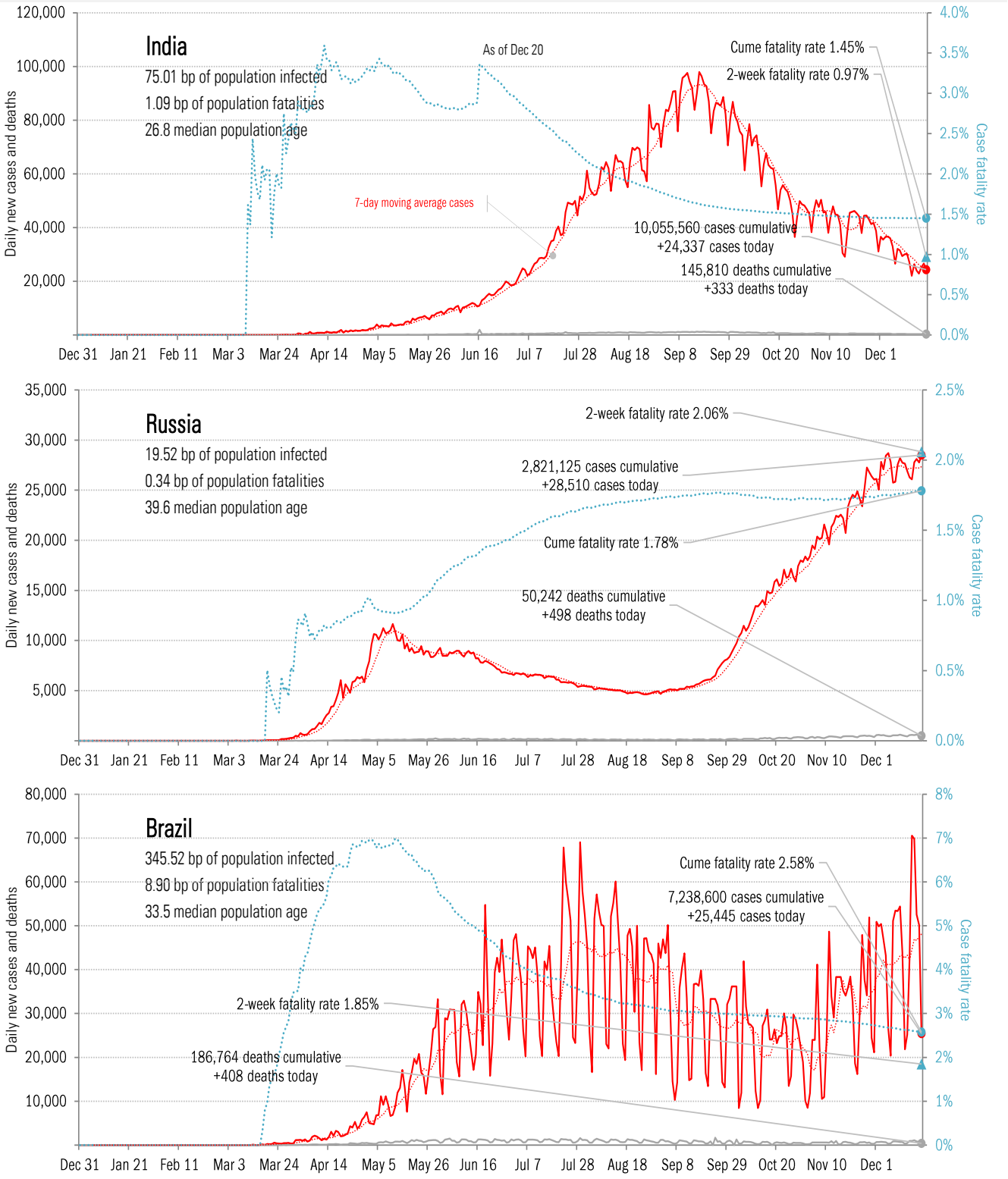
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



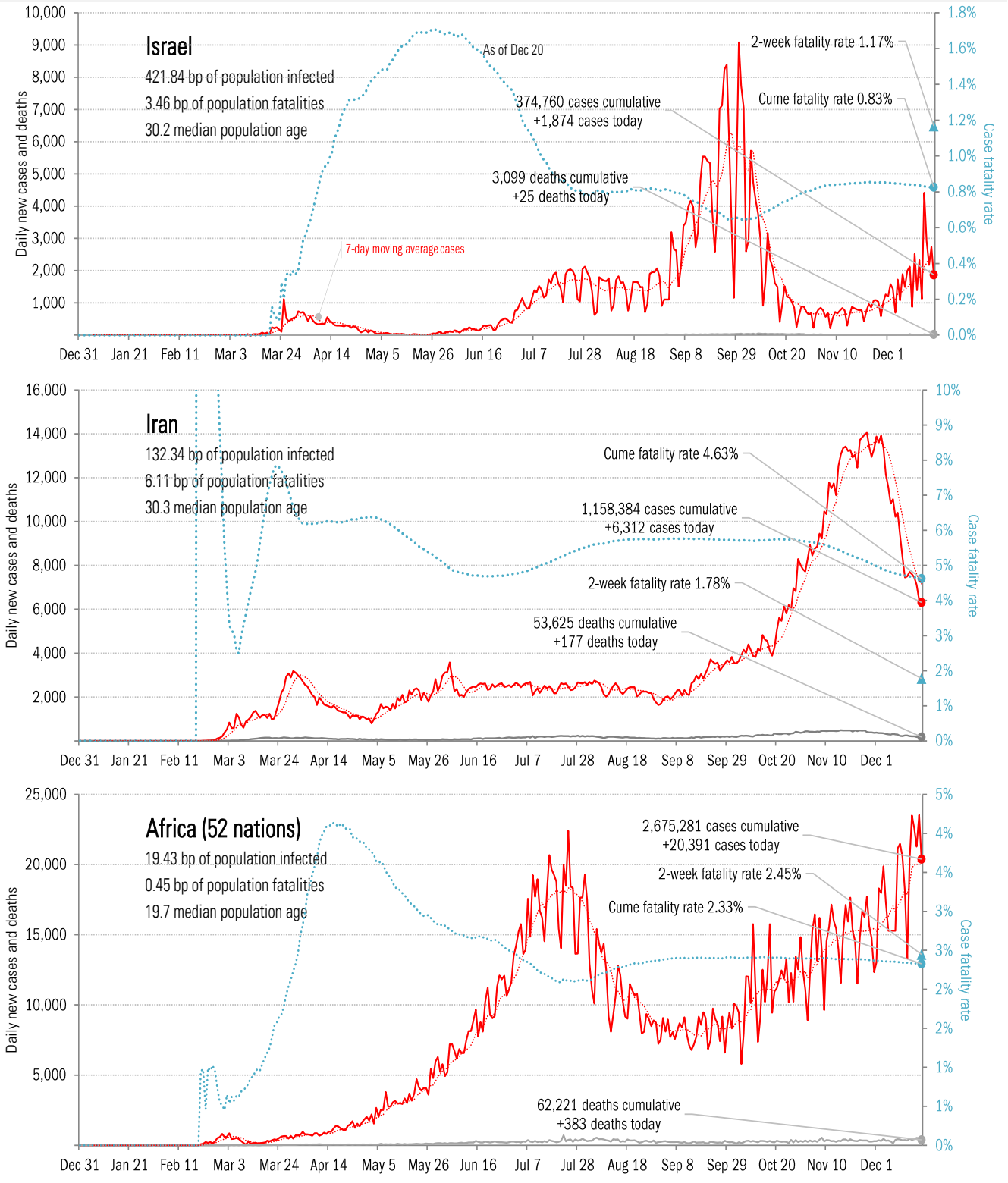
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations