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

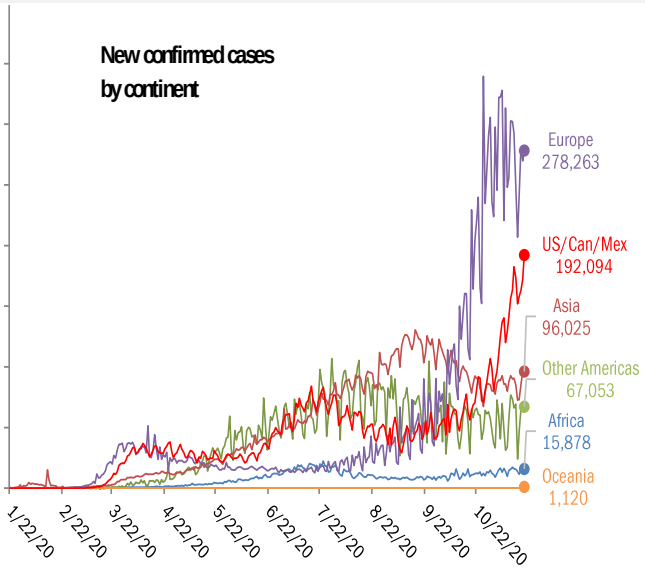
Data Insights: Covid-2019 Monitor

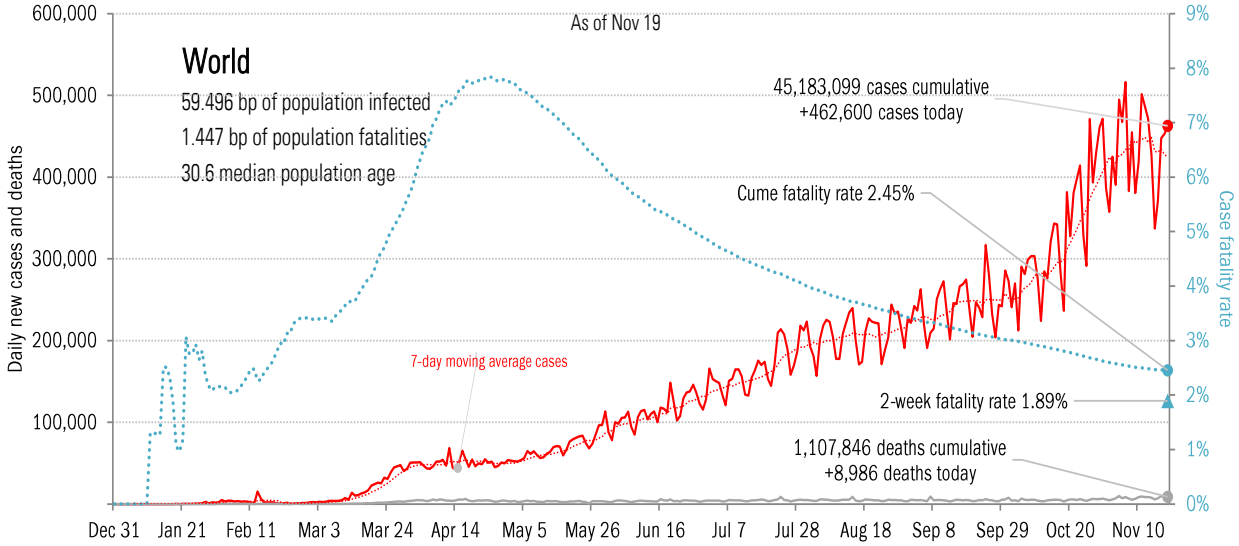
Friday, November 20, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+182,832	United States	+1,971
India	+45,882	Italy	+653
Italy	+36,176	Poland	+637
Brazil	+35,918	Brazil	+606
Germany	+24,041	India	+584
Poland	+23,975	Mexico	+576
Russia	+23,337	United Kingdom	+502
United Kingdom	+22,936	Iran	+476
France	+21,379	Russia	+457
Spain	+16,233	France	+429
	+432,709		+6,891
World	+462,600	World	+8,986
Top ten	94%	Top ten	77%





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

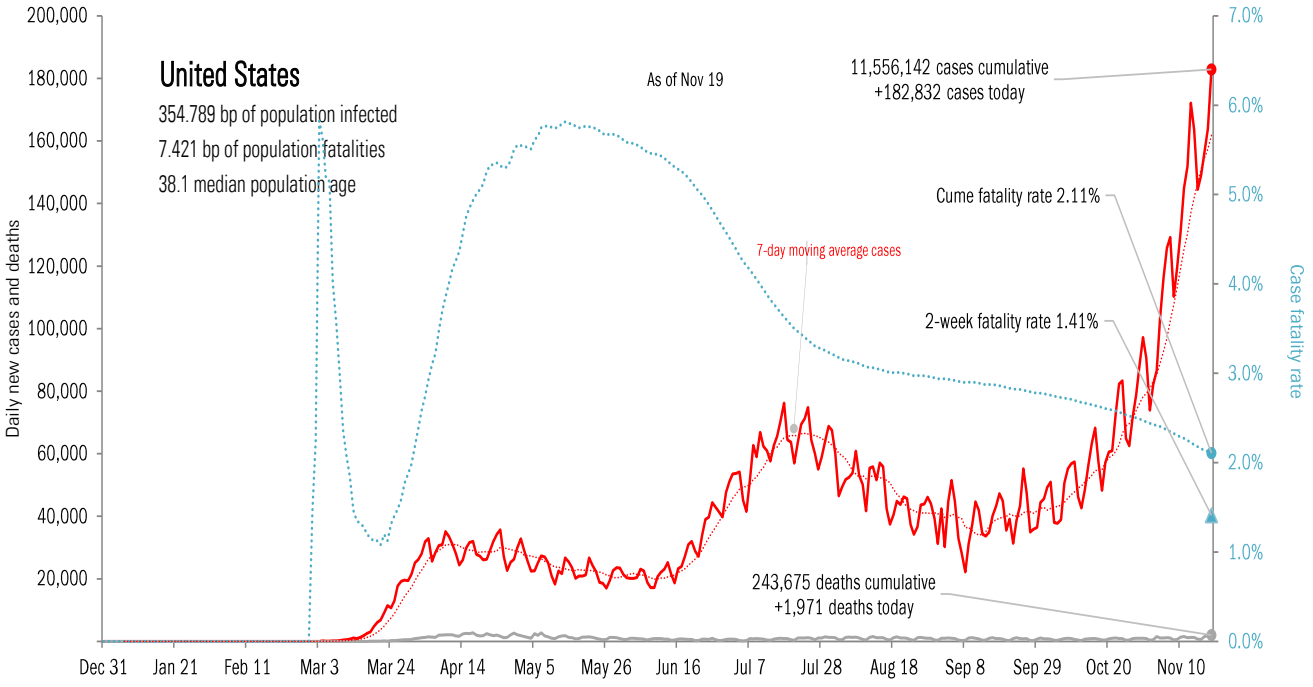
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
IL	+14,612	TX	+230	CA	+241	TX	1,060,883	NY	26,257	NY	89,995
TX	+12,500	IL	+180	MO	+135	CA	1,059,267	TX	20,113	FL	53,519
CA	+11,478	MI	+144	OH	+113	FL	901,234	CA	18,466	NJ	39,648
FL	+8,882	PA	+116	VA	+100	IL	621,383	FL	18,030	GA	33,778
MI	+7,983	CA	+106	AZ	+96	NY	579,382	NJ	16,689	VA	24,427
MN	+7,863	WI	+85	IL	+84	GA	396,641	IL	11,648	AZ	23,871
OH	+7,787	FL	+81	NY	+74	WI	358,113	MA	10,435	OH	23,560
WI	+7,448	TN	+80	GA	+51	TN	328,088	PA	9,581	AL	23,295
IN	+7,281	AL	+72	MD	+48	OH	326,615	GA	9,102	IN	22,160
PA	+7,126	MN	+72	PA	+48	NC	325,158	MI	8,717	MD	19,134
	+92,960		+1,166		+990		5,956,764		149,038		353,387
All states	+182,832	All states	+1,971	All states	+1,288	All states	11,556,142	All states	243,675	All states	533,844
Top ten	51%	Top ten	59%	Top ten	77%	Top ten	52%	Top ten	61%	Top ten	66%

Some states not reporting

Five most improved US states

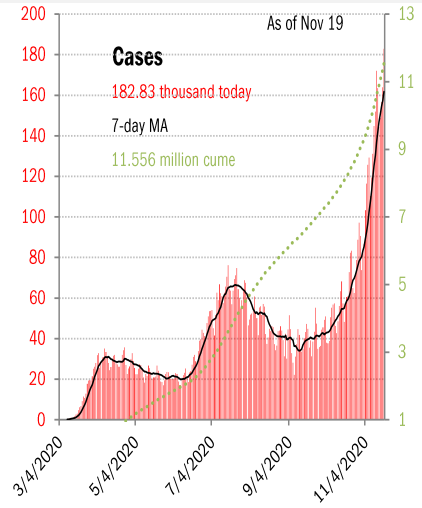
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
KS	-5,853	KS	-60	KS	-488	MA	+8,260
TN	-1,585	AZ	-34	PA	-119	TX	+7,092
WA	-1,286	ID	-21	OK	-106	WI	+5,588
WI	-1,062	GA	-20	MS	-102	PA	+4,703
ID	-471	MA	-19	NJ	-101	MN	+4,496

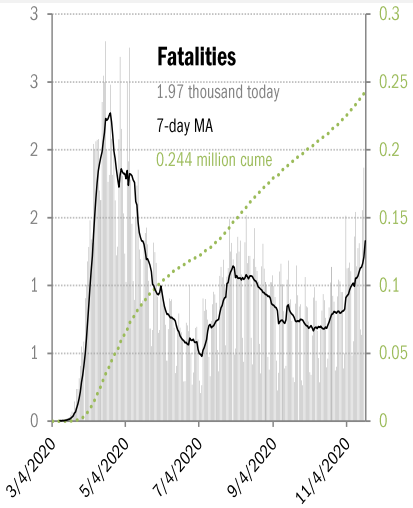


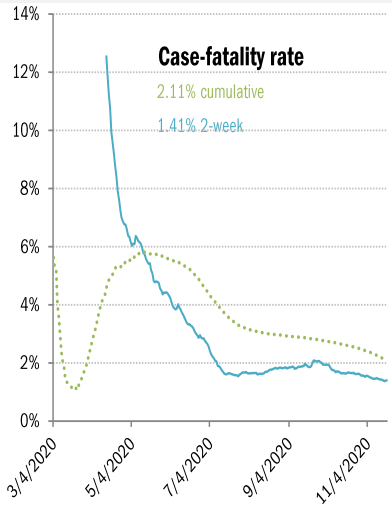
Source: Covid Tracking Project, TrendMacro calculations

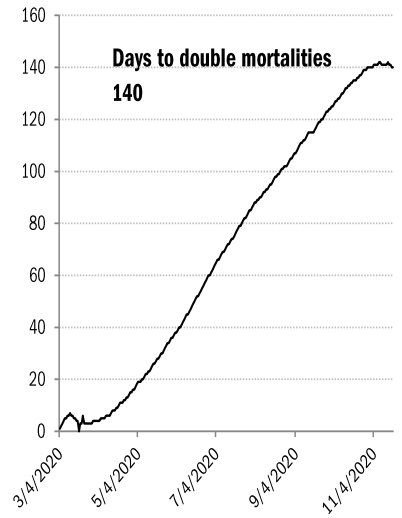
US deep-dive

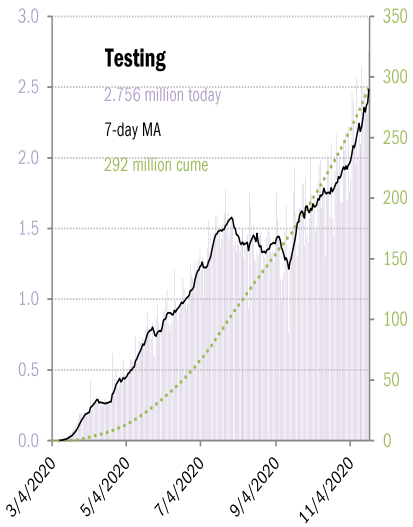
National and state-by-state data do not line up because of different sources

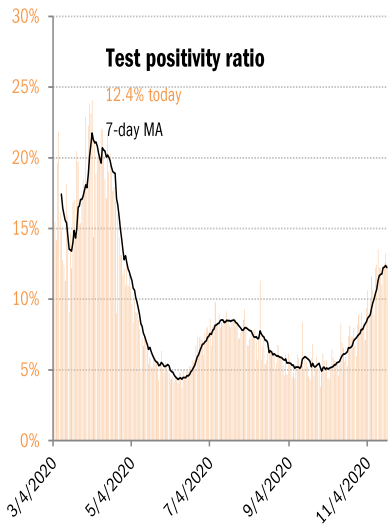


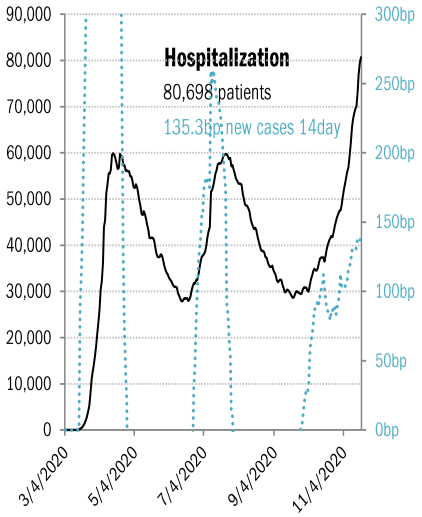


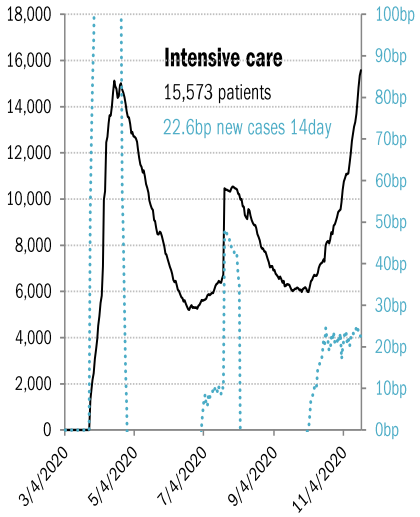


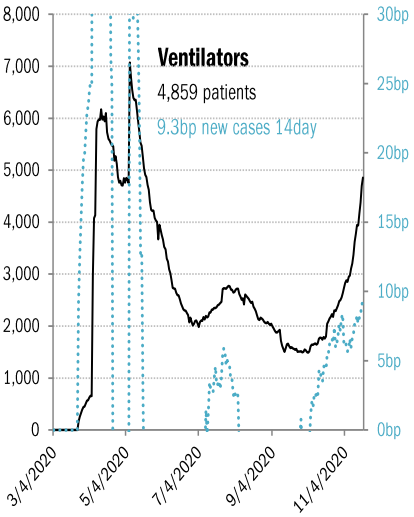












Source: Covid Tracking Project, TrendMacro calculations

Recommended reading

[Pfizer will seek emergency FDA authorization for coronavirus vaccine]
Lauren Morello
Politico
November 20, 2020

[Man who died after falling from a 10 ft ladder was actually killed by COVID-19: doctors]
Natalie O'Neill
New York Post
November 18, 2020

[The kids aren't alright: How Generation Covid is losing out]
Federica Cocco
Financial Times
November 16, 2020

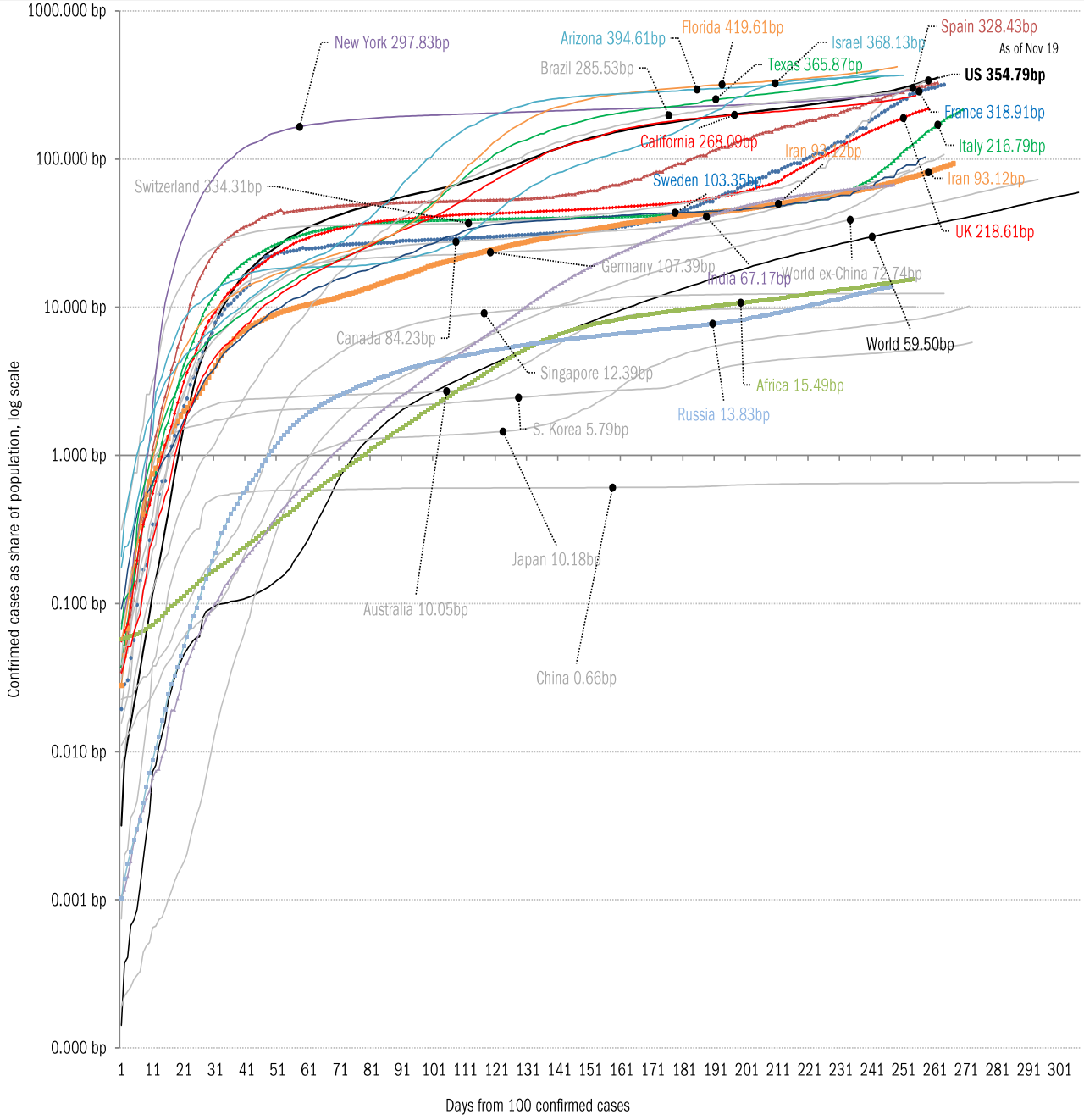
[Oxford Study Confirms Astra Covid Shot's Response in Elderly]
James Paton and Suzi Ring
Bloomberg
November 19, 2020

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

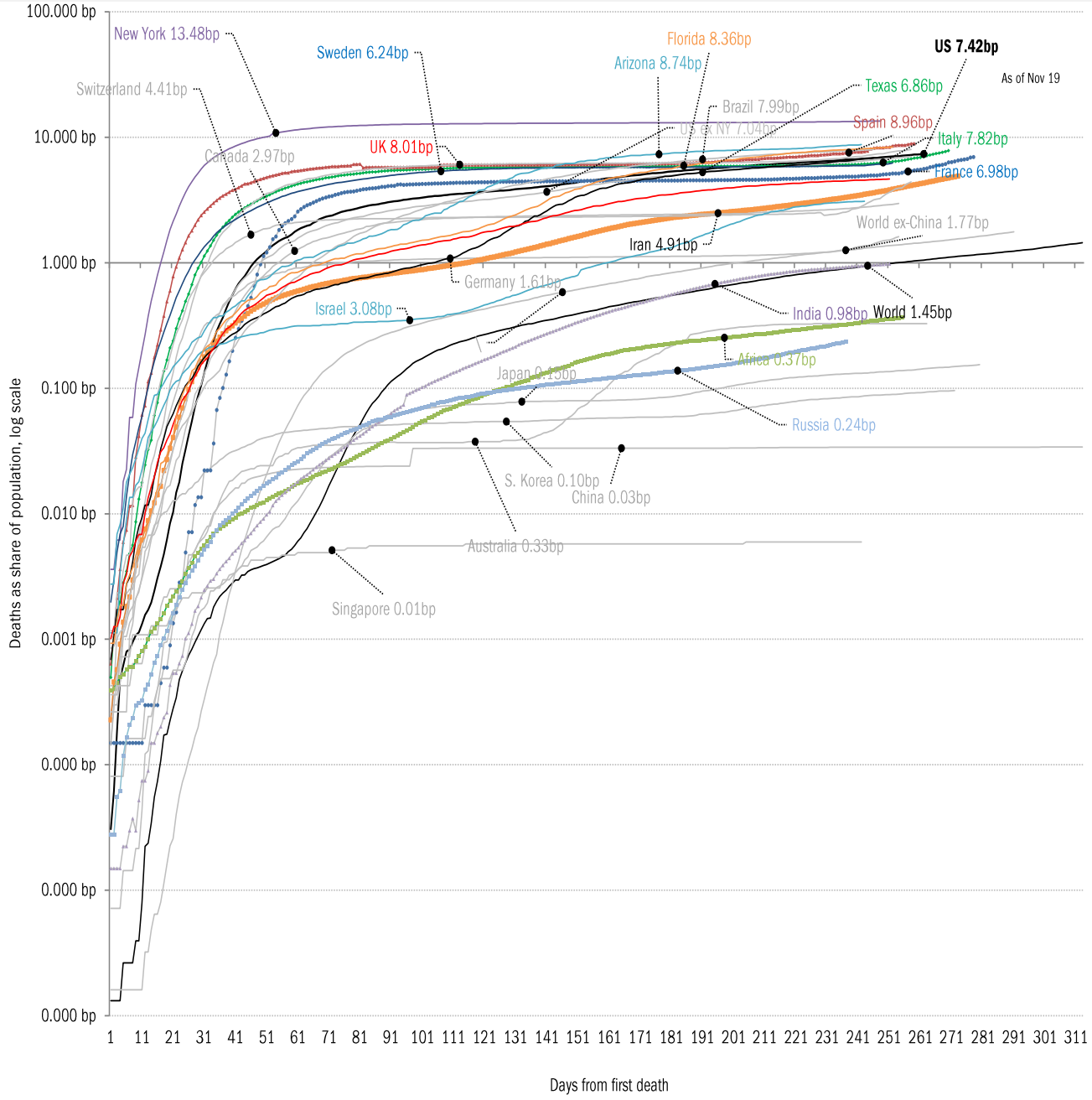
Share of infected population from first day with 100 confirmed cases, log scale



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

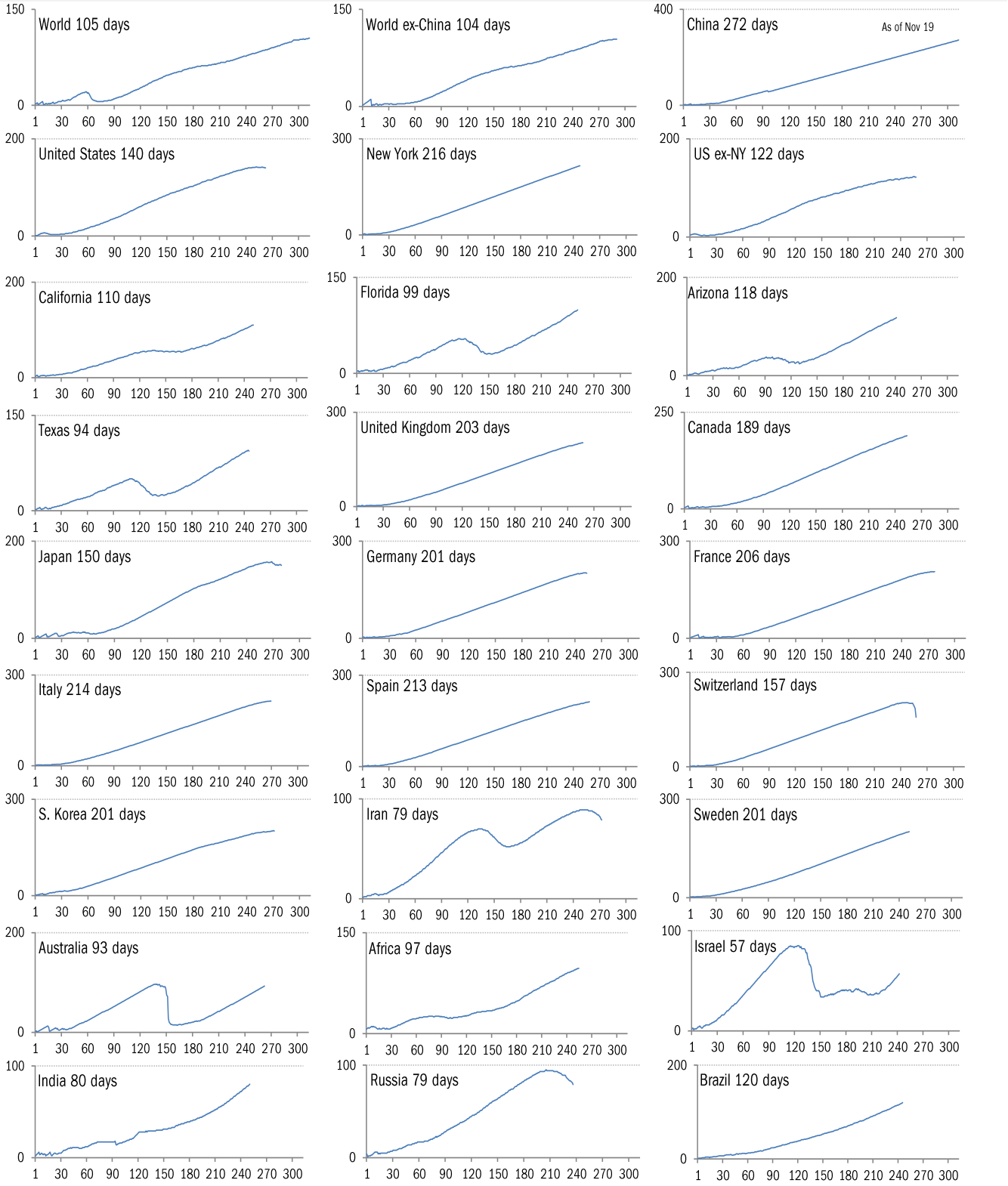


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Our most reliable evidence of slowing exponential growth 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

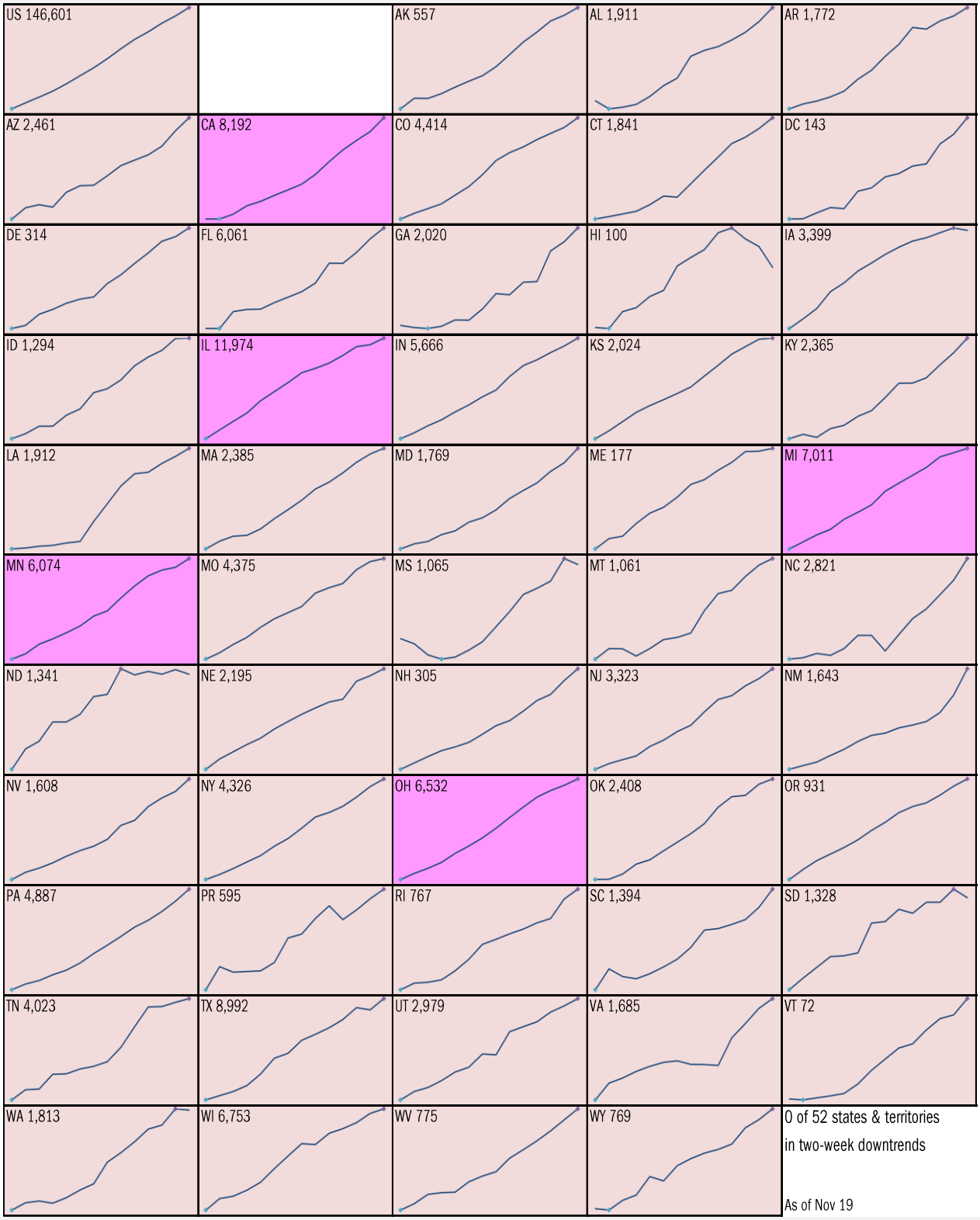


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

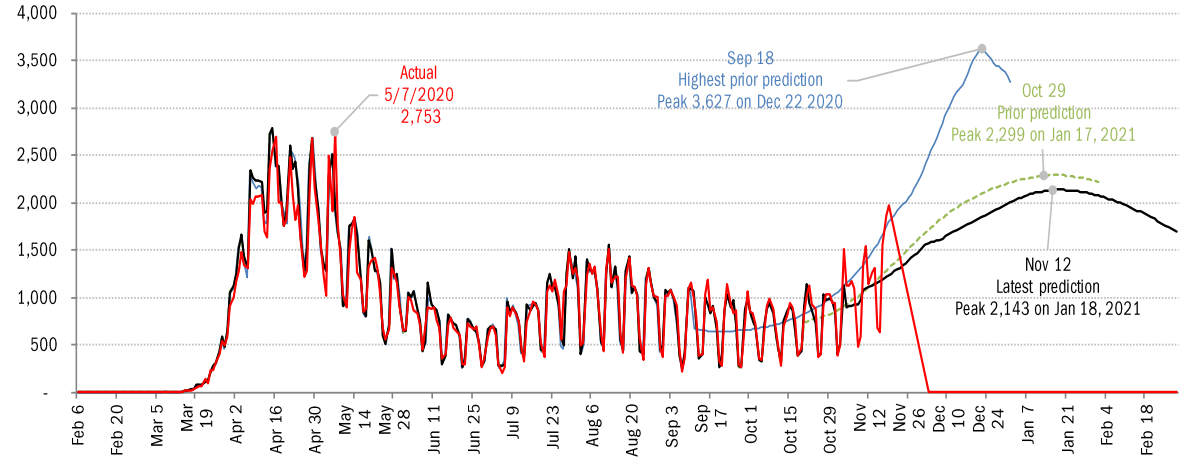
Downward trajectory Five best Upward trajectory Five worst

Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

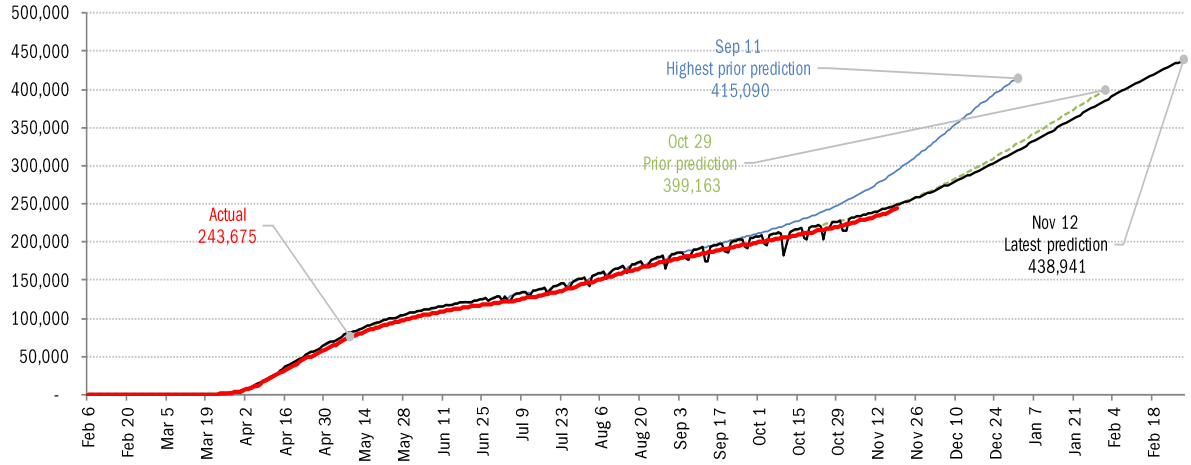
New daily fatalities As of Nov 19

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

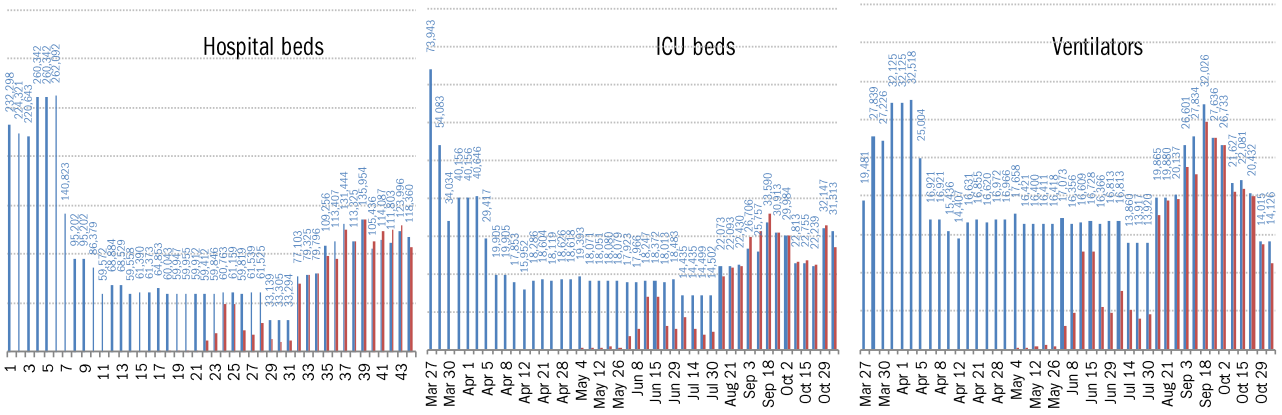


Cumulative fatalities

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

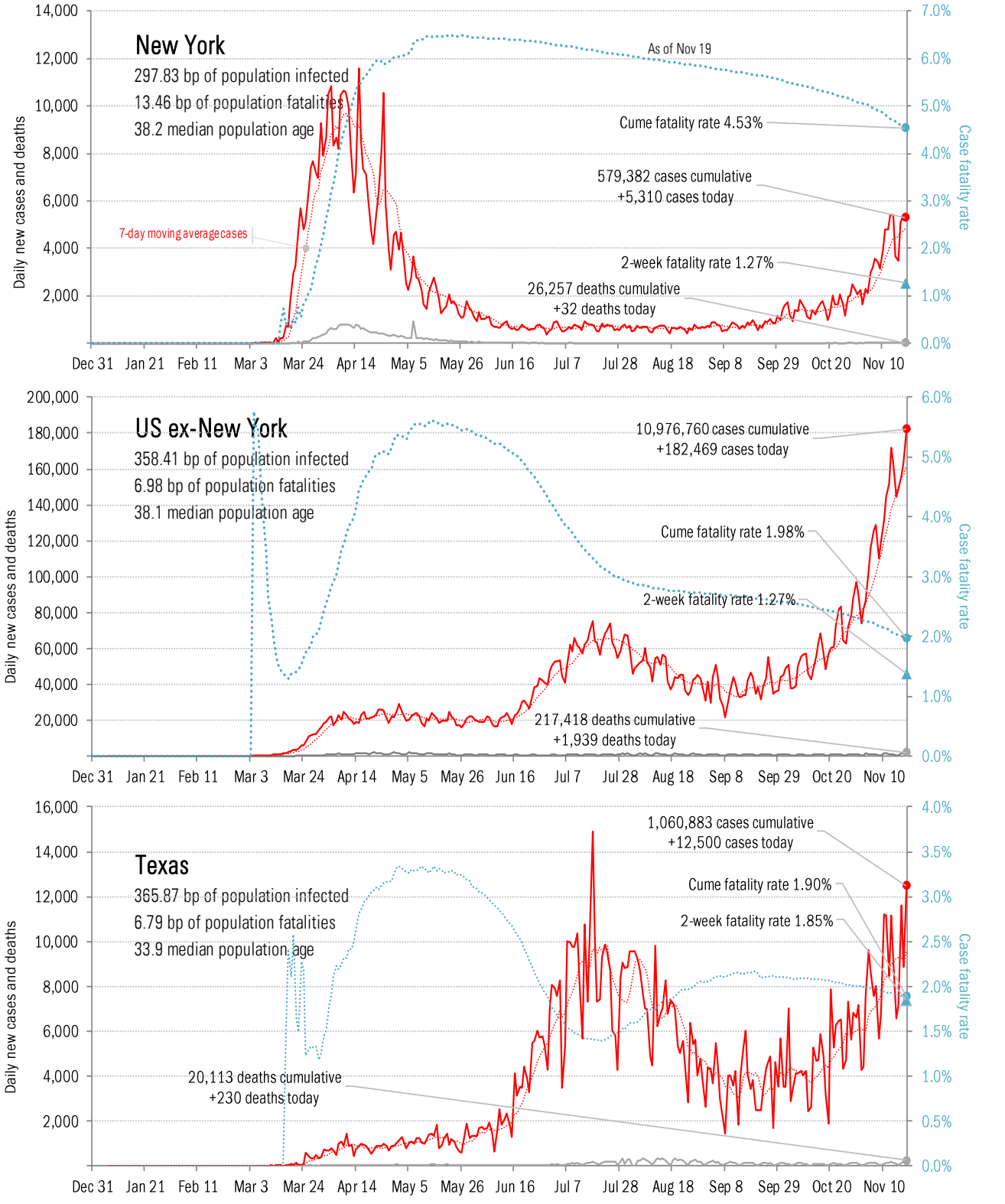


Healthcare system stress, peak and ultimate estimated at each model revision



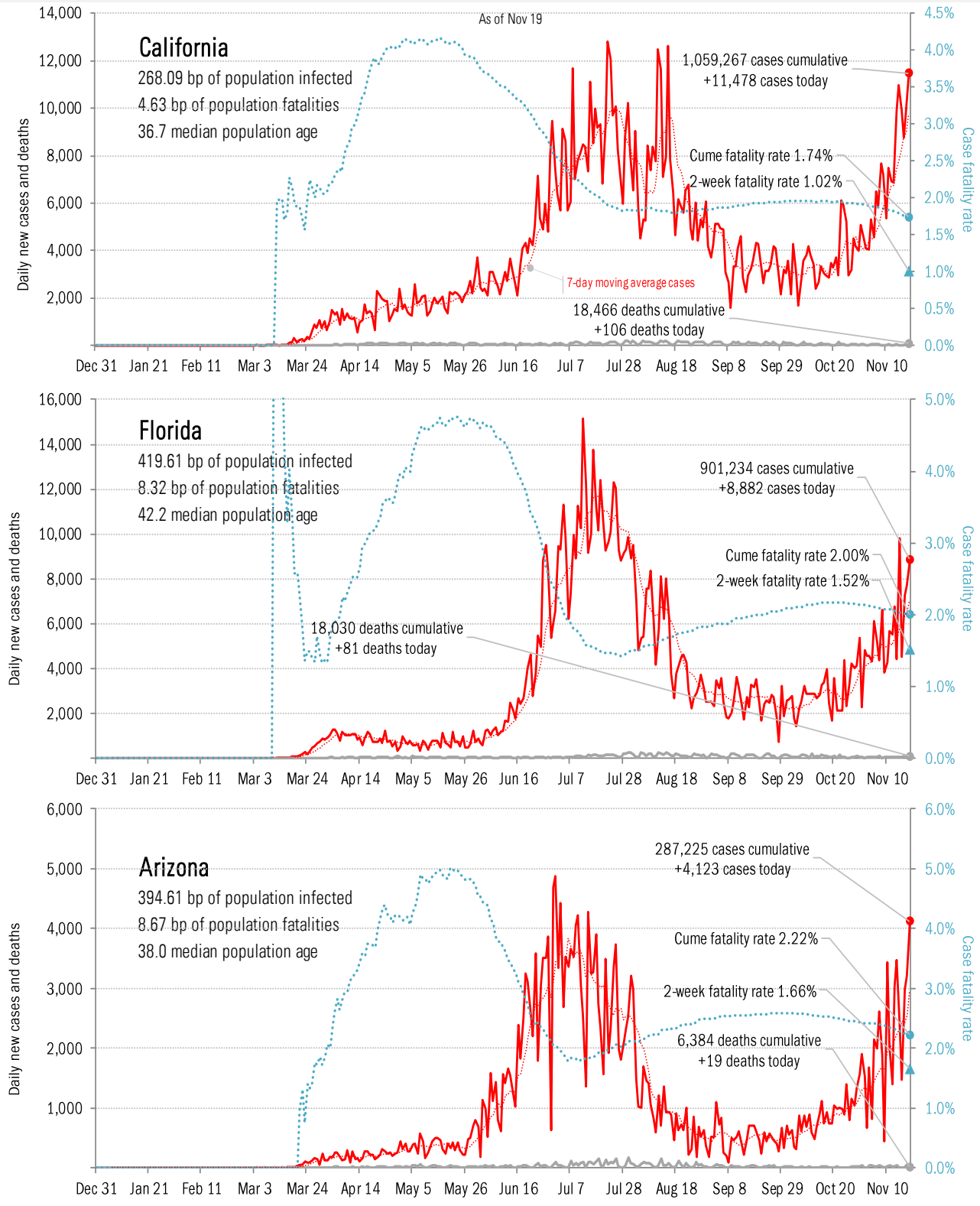
Source: Covid Tracking Project,, IHME, TrendMacro calculations

From Ground Zero to the Rio Grande



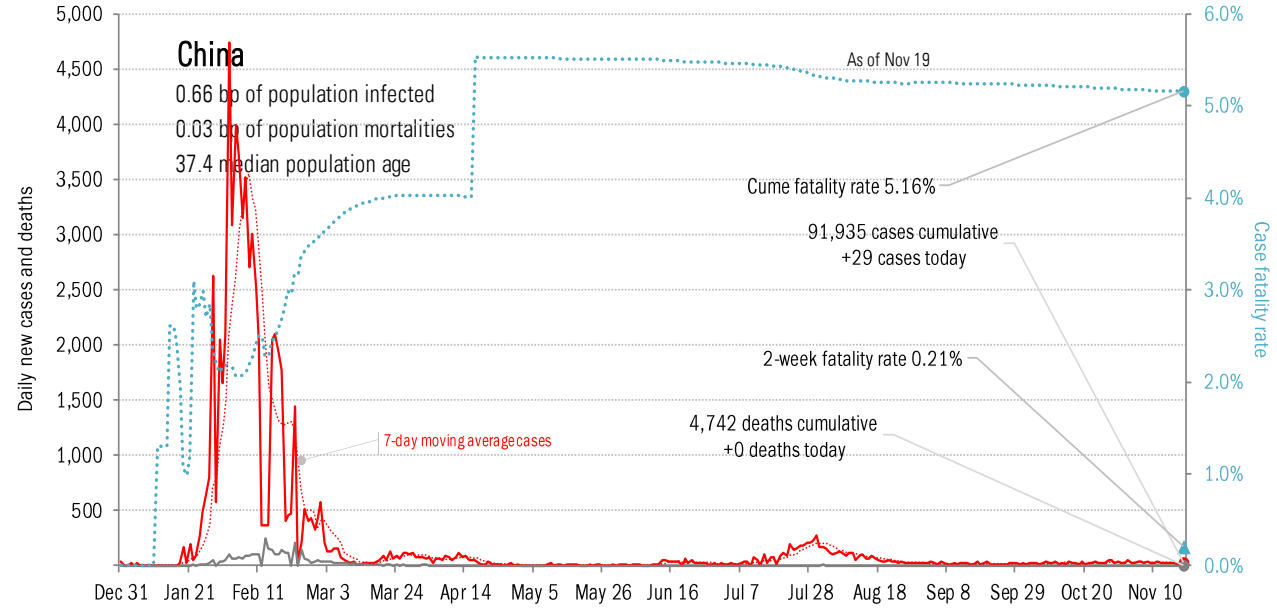
Source: Covid Tracking Project,, TrendMacro calculations

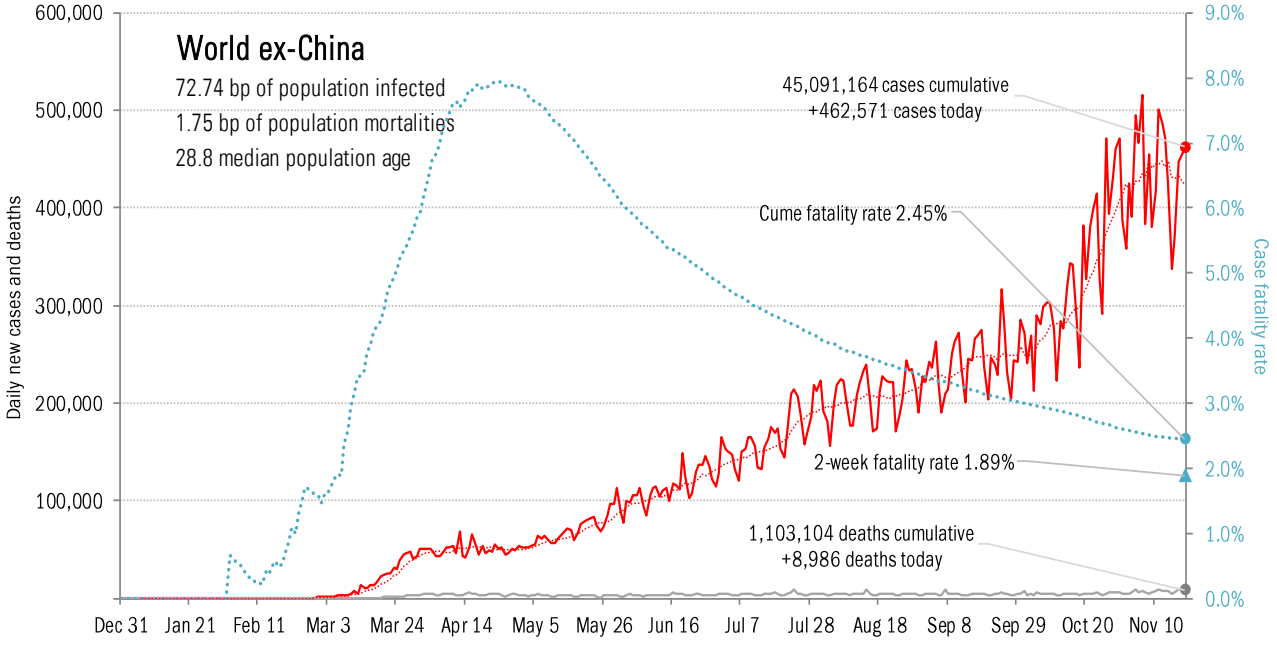
The sun-belt hot-spot states (other than Texas)



Source: Covid Tracking Project,, TrendMacro calculations

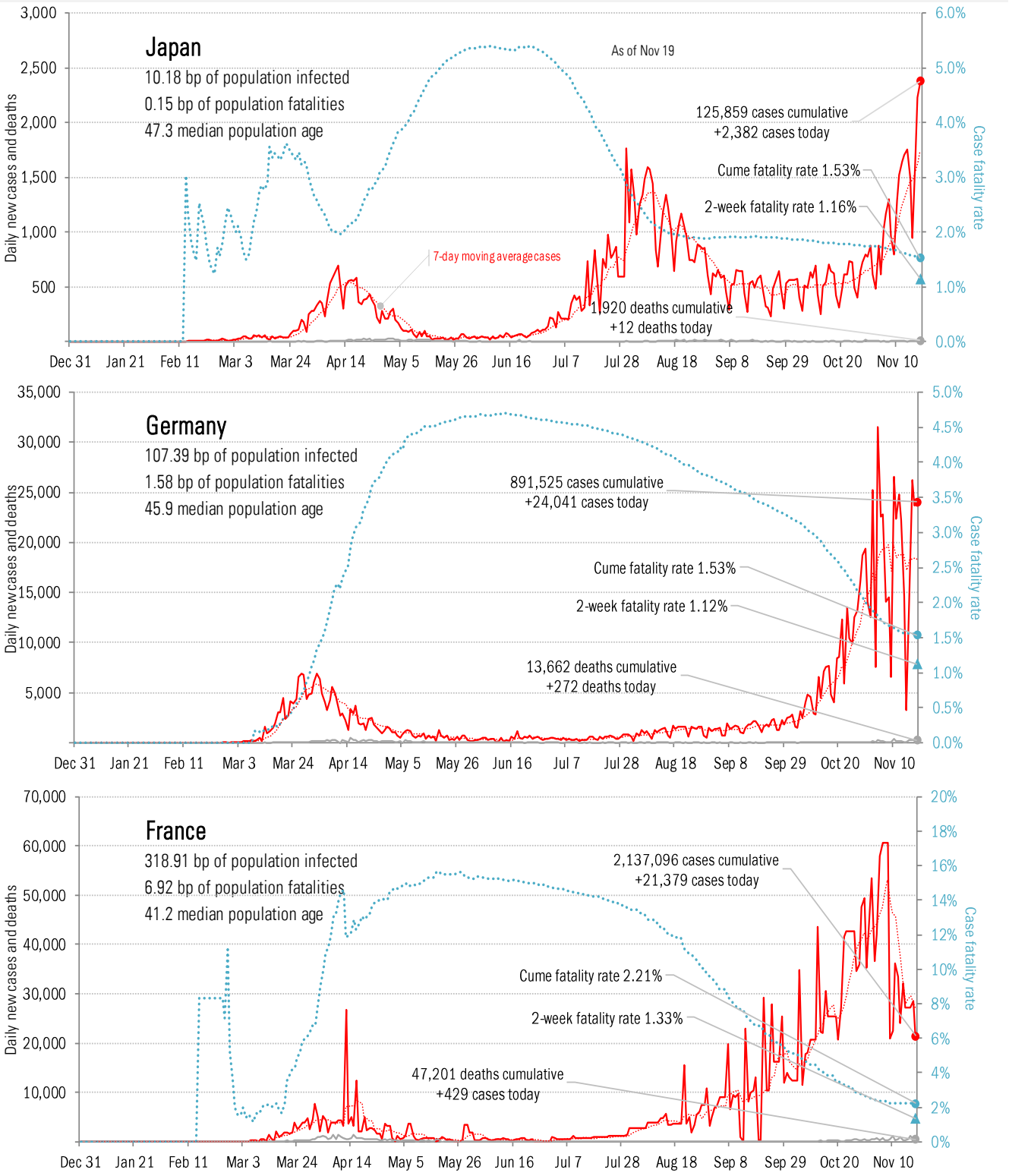
Patient zero… and then everyone else





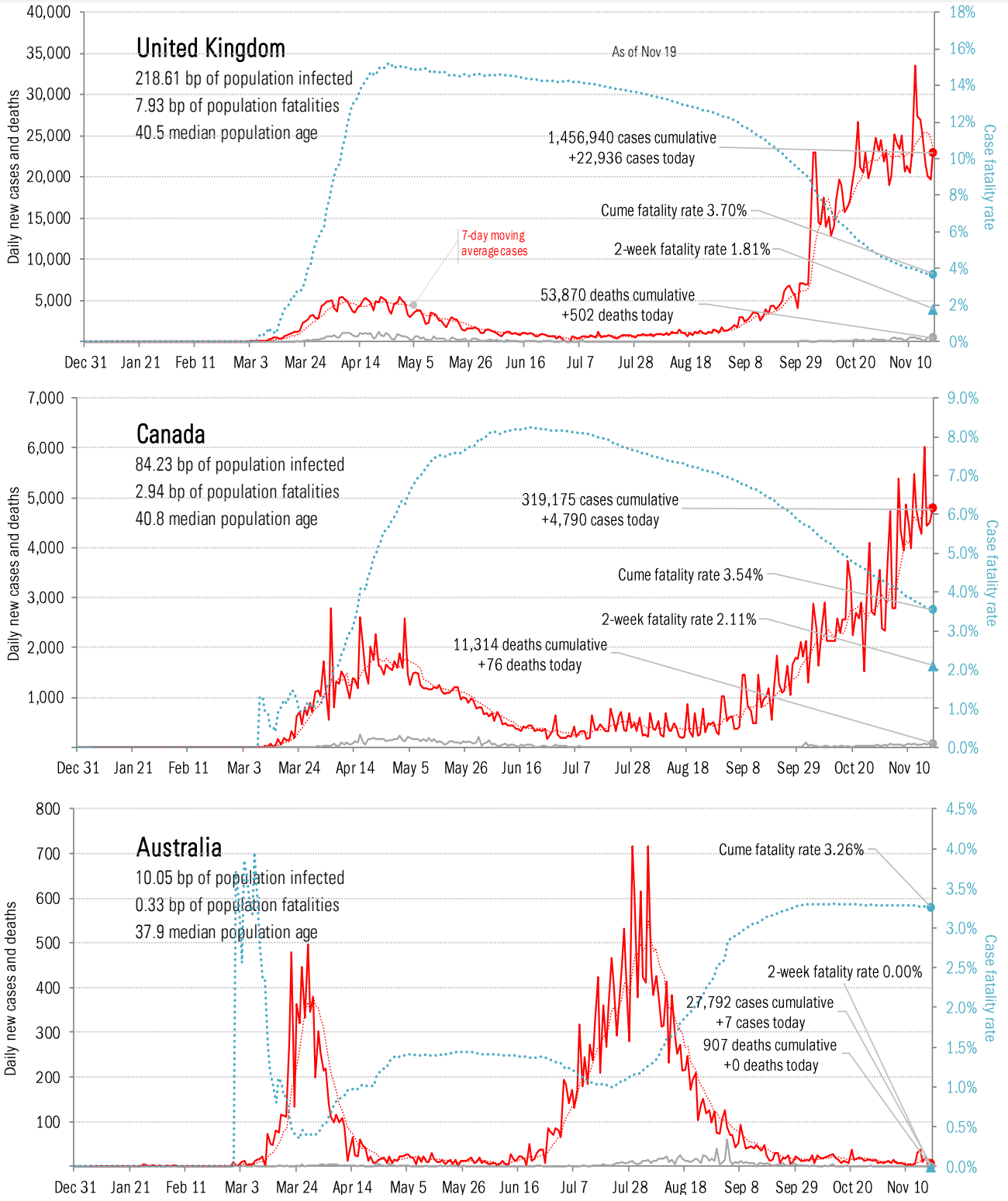
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



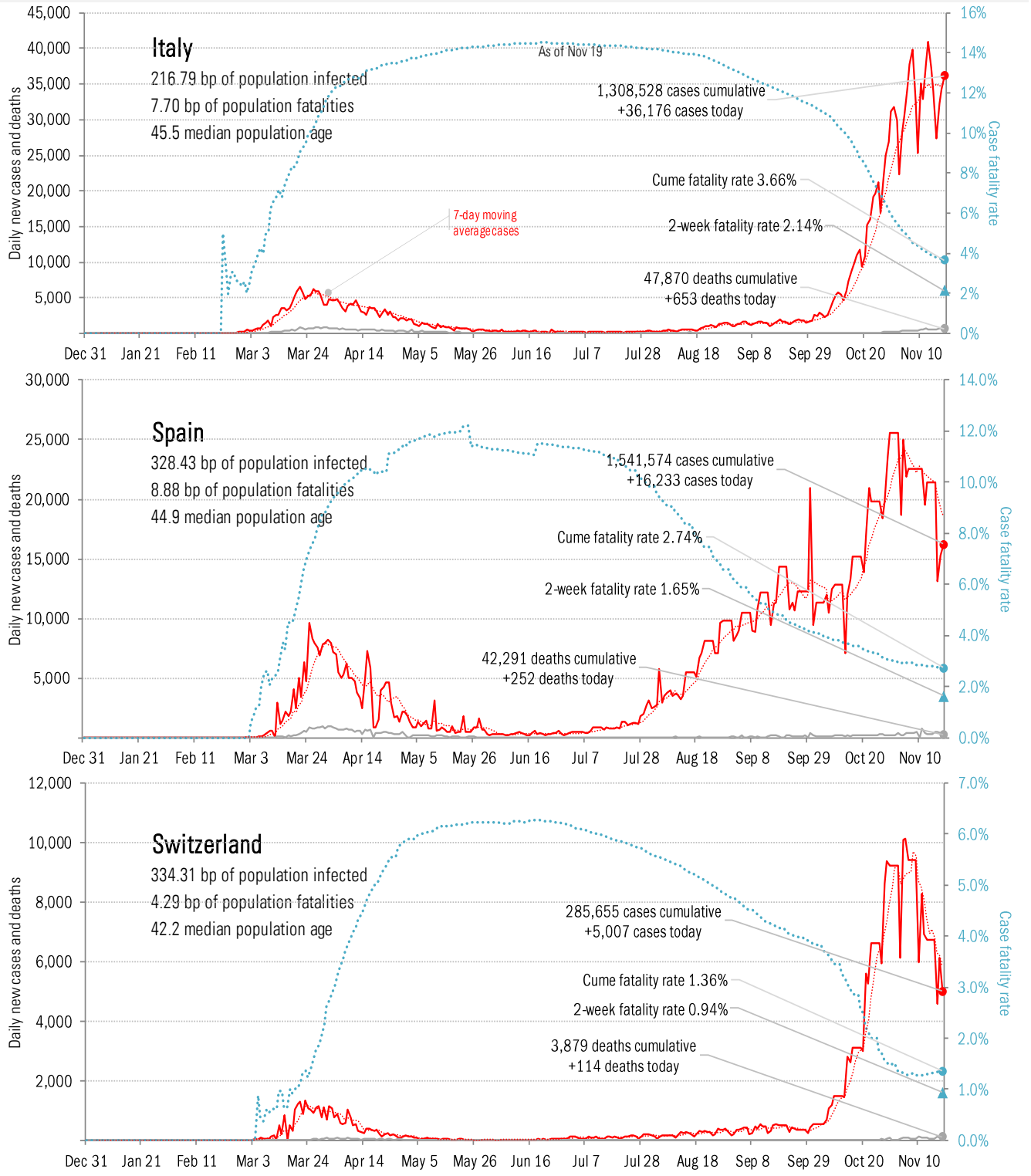
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



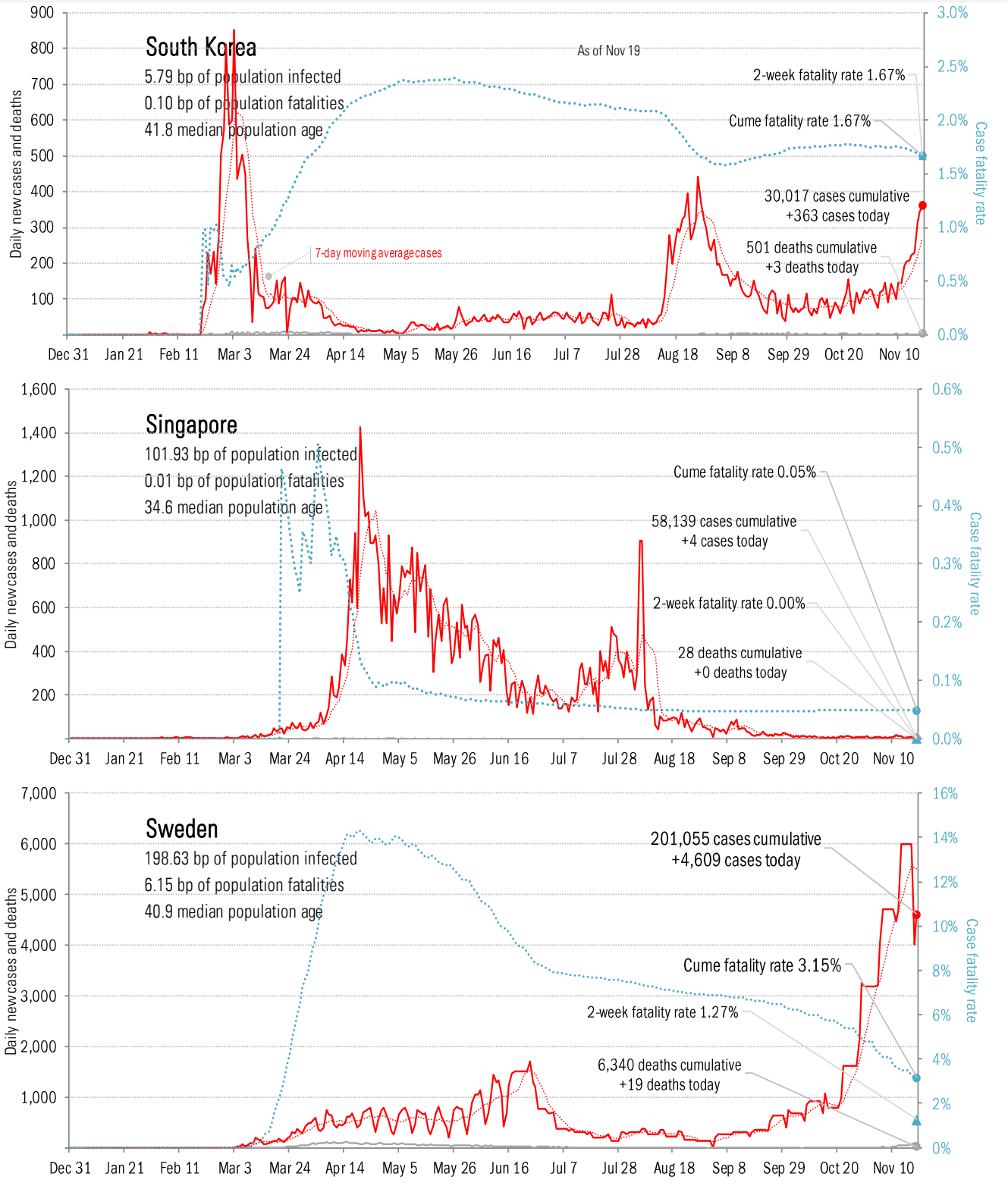
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



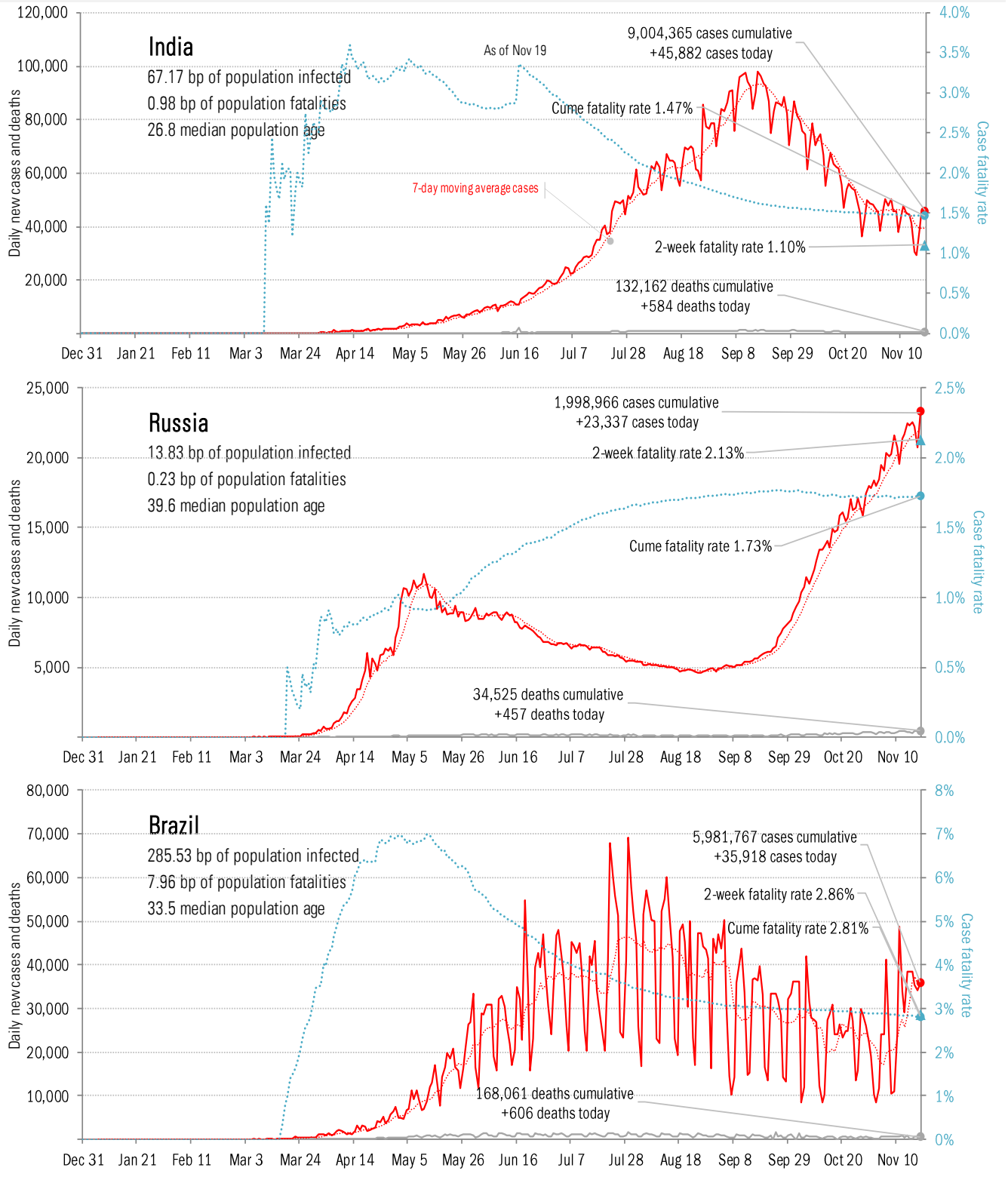
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



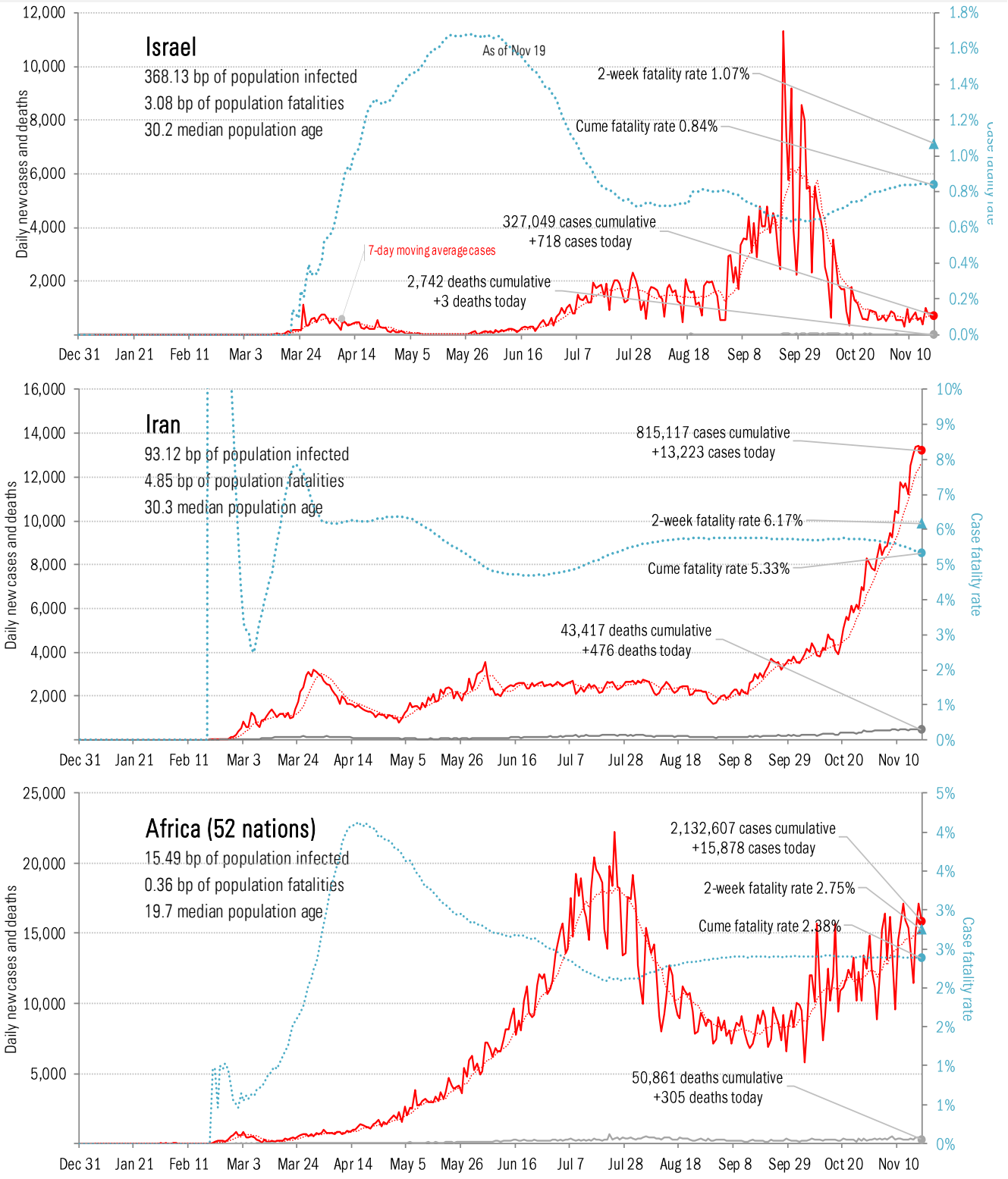
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations