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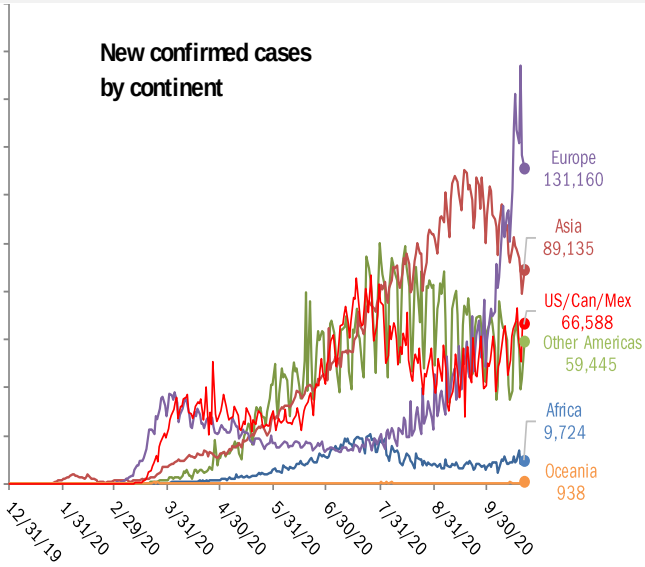
Data Insights: Covid-2019 Monitor

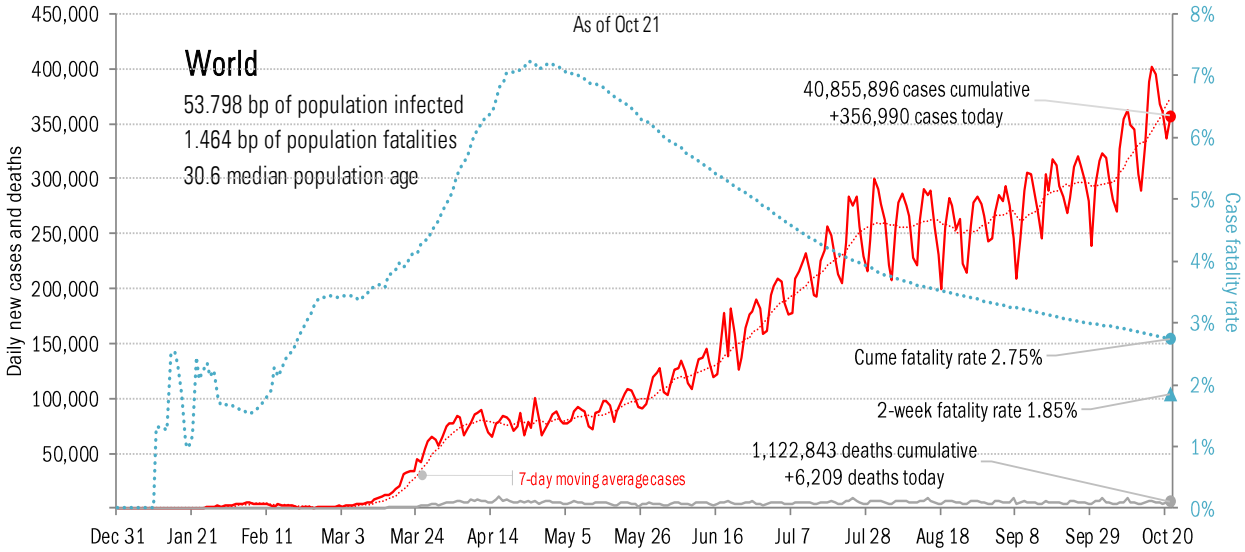
Wednesday, October 21, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
US	+58,549	US	+933
India	+54,044	India	+717
Brazil	+23,227	Brazil	+661
UK	+21,330	Mexico	+555
France	+20,468	Argentina	+384
Argentina	+16,337	Iran	+322
Russia	+16,319	Russia	+269
Spain	+13,873	France	+262
Czechia	+11,984	UK	+241
Italy	+10,871	Colombia	+170
	+247,002		+4,514
World	+356,990	World	+6,209
Top ten	69%	Top ten	73%





Source: ECDC, TrendMacro calculations

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The US scorecard

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

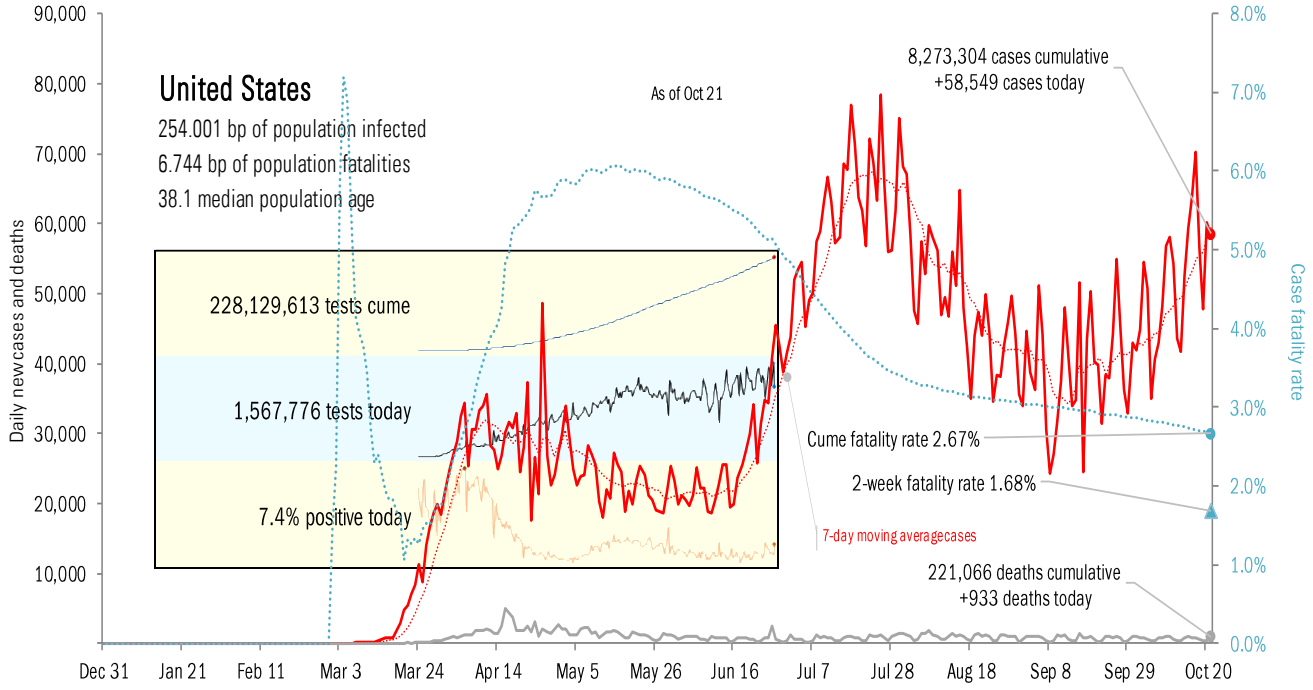
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
TX	+7,884	FL	+86	TX	+269	CA	874,077	NY	25,672	NY	89,995
WI	+4,686	TX	+65	IL	+165	TX	833,557	TX	17,087	FL	47,895
IL	+3,714	NC	+53	CA	+102	FL	760,389	CA	16,992	GA	30,541
FL	+3,662	IN	+48	TN	+86	NY	486,480	FL	16,308	NJ	24,362
CA	+3,286	IL	+41	OH	+67	IL	354,462	NJ	16,227	AZ	20,719
OH	+2,015	SC	+35	NC	+61	GA	342,438	MA	9,758	VA	20,107
MI	+1,871	WI	+35	AZ	+56	NC	248,750	IL	9,537	AL	19,081
NC	+1,578	PA	+33	IN	+52	TN	233,569	PA	8,533	OH	17,388
PA	+1,557	MS	+31	PR	+51	AZ	232,937	GA	7,674	MD	16,516
MO	+1,524	TN	+30	GA	+49	NJ	222,193	MI	7,383	IN	14,983
	+31,777		+457		+958		4,588,852		135,171		301,587
All states	+60,582	All states	+832	All states	+1,404	All states	8,232,285	All states	212,678	All states	438,965
Top ten	52%	Top ten	55%	Top ten	68%	Top ten	56%	Top ten	64%	Top ten	69%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
WI	-3,229	MI	-26	MO	-521	AL	+8
MI	-3,133	KS	-13	TN	-147	AR	+6
KS	-2,113	MA	-11	WI	-62	UT	+2
TN	-1,809	LA	-10	KY	-61	AK	+0
CT	-757	CT	-7	MI	-50	AS	+0



Source: States and test data Covid Tracking Project, US data ECDC, TrendMacro calculations

Recommended reading

End the School Shutdown
David R. Henderson and Ryan Sullivan
Wall Street Journal
October 20, 2020

A Systematic Review and Meta-Analysis of Hospitalised Current Smokers and COVID-19
Jesus González-Rubio et al.
International Journal of Environmental Research and Public Health
October 11, 2020

Tony Blair accused of breaking quarantine rules with US trip
Edward Malnick
The Telegraph
October 17, 2020

A Woman In Her Thirties Died Of COVID-19 On A Plane
Tasneem Nashrulla
Buzzfeed
October 19, 2020

Chinese official says 60,000 vaccinated against COVID-19 without adverse reactions
Marina Pitofsky
The Hill
October 20, 2020

"COVID, COVID,COVID… They're Trying to Talk Everyone Out of Voting – People Aren't Buying It, CNN, You Dumb B*stards!" – TRUMP UNLOADS on Fake News CNN
Jim Hoft
Gateway Pundit
October 19, 2020

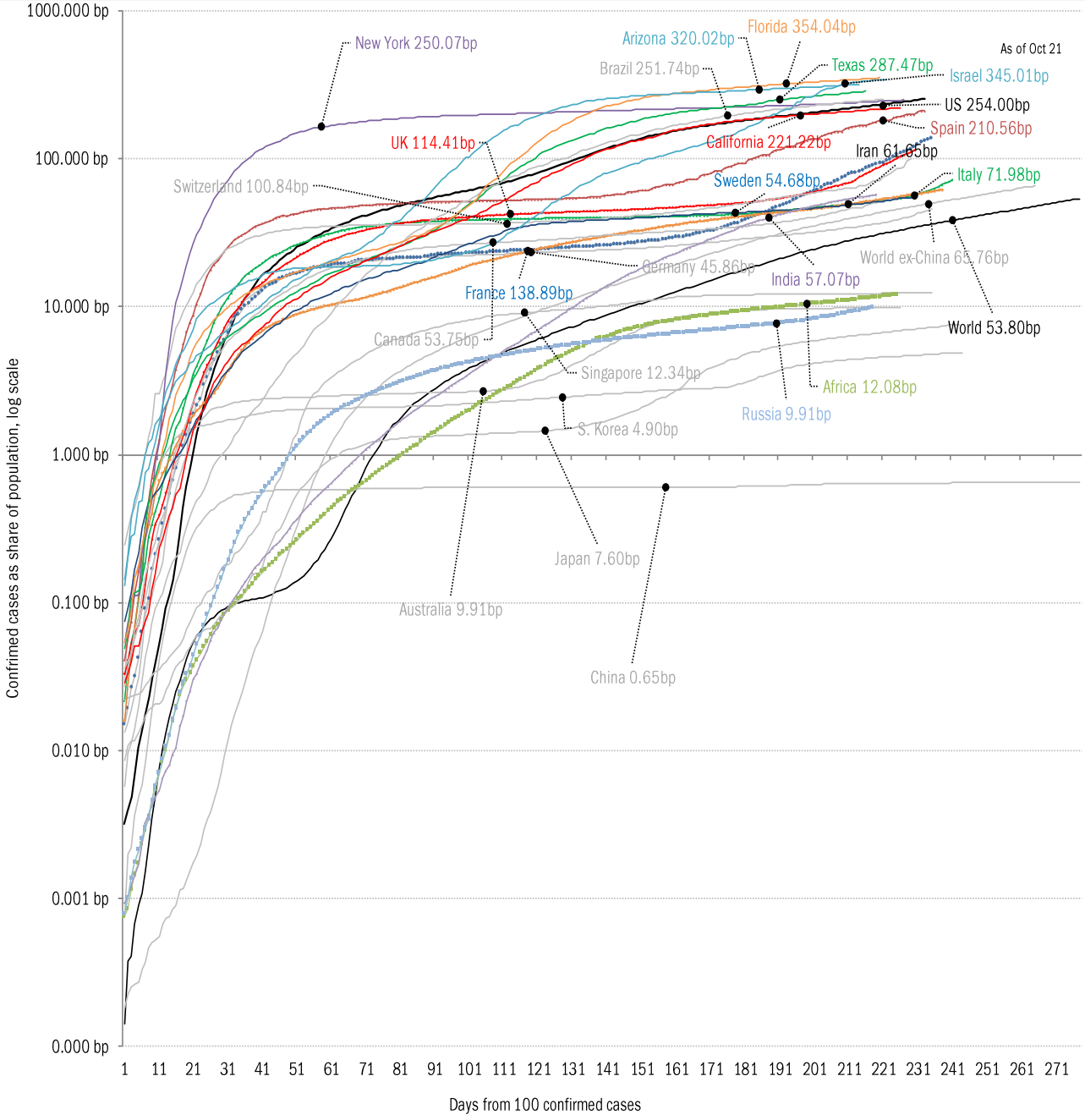
Trump calls Fauci a "disaster" but says it would be "a bigger bomb to fire him"
Nicole Sganga, Kristin Brown And Kathryn Watson
CBS News
October 20, 2020

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

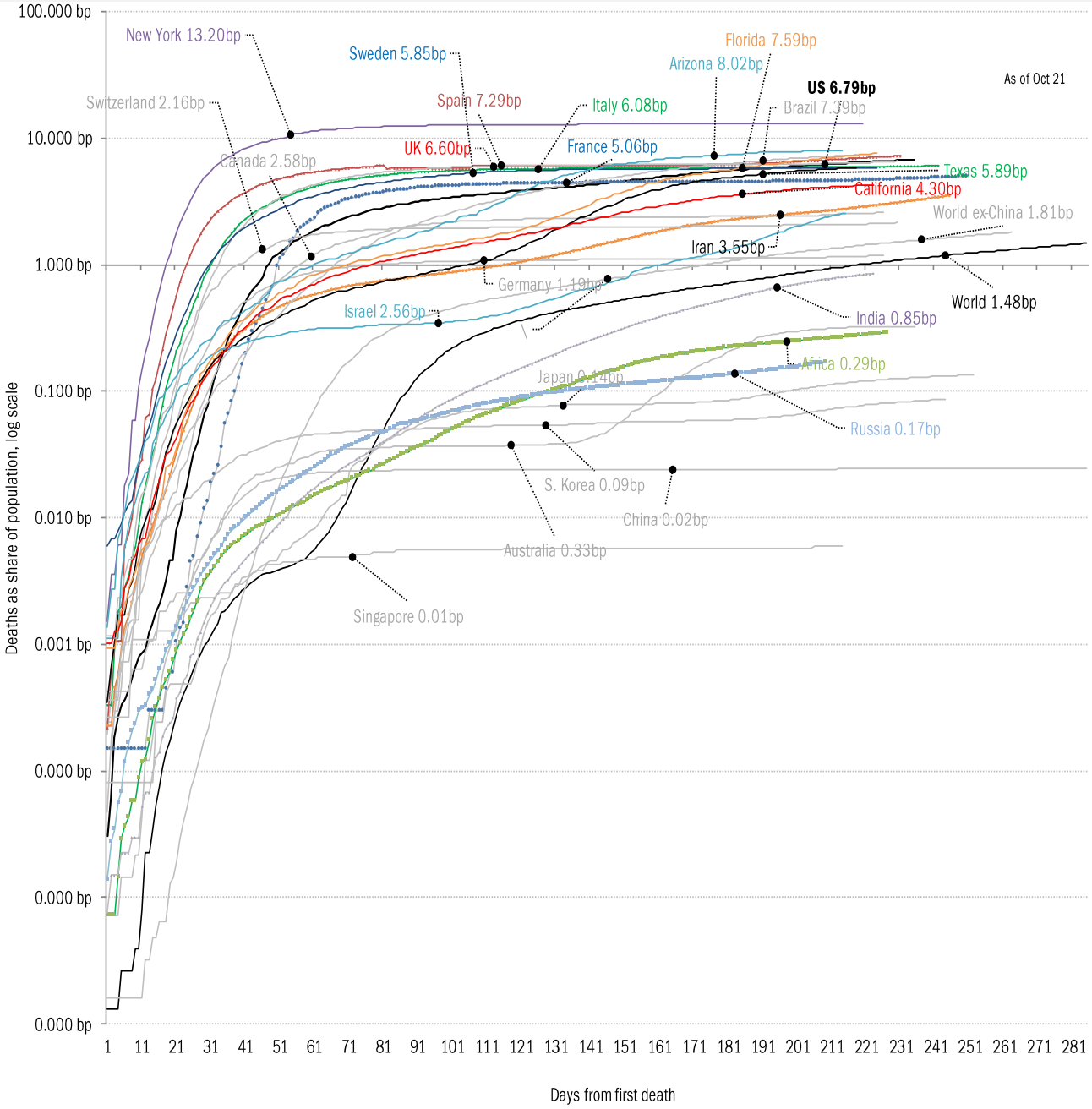
Share of infected population from first day with 100 confirmed cases, log scale



Source: ECDC, TrendMacro calculations

The coronavirus mortality accelerometer … tracking the world's fatality curves

Share of deceased population from day of first fatality

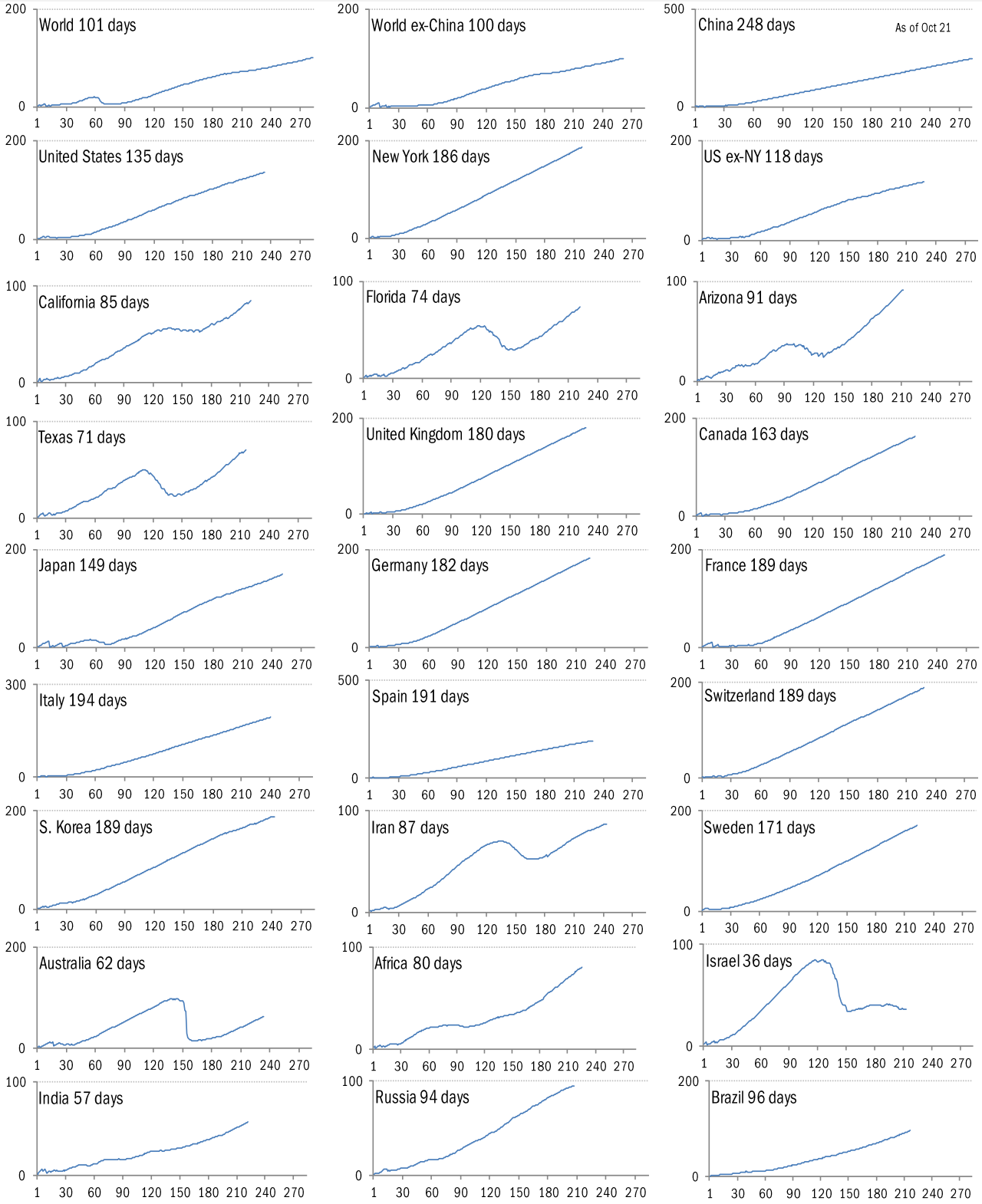


Source: ECDC, TrendMacro calculations

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

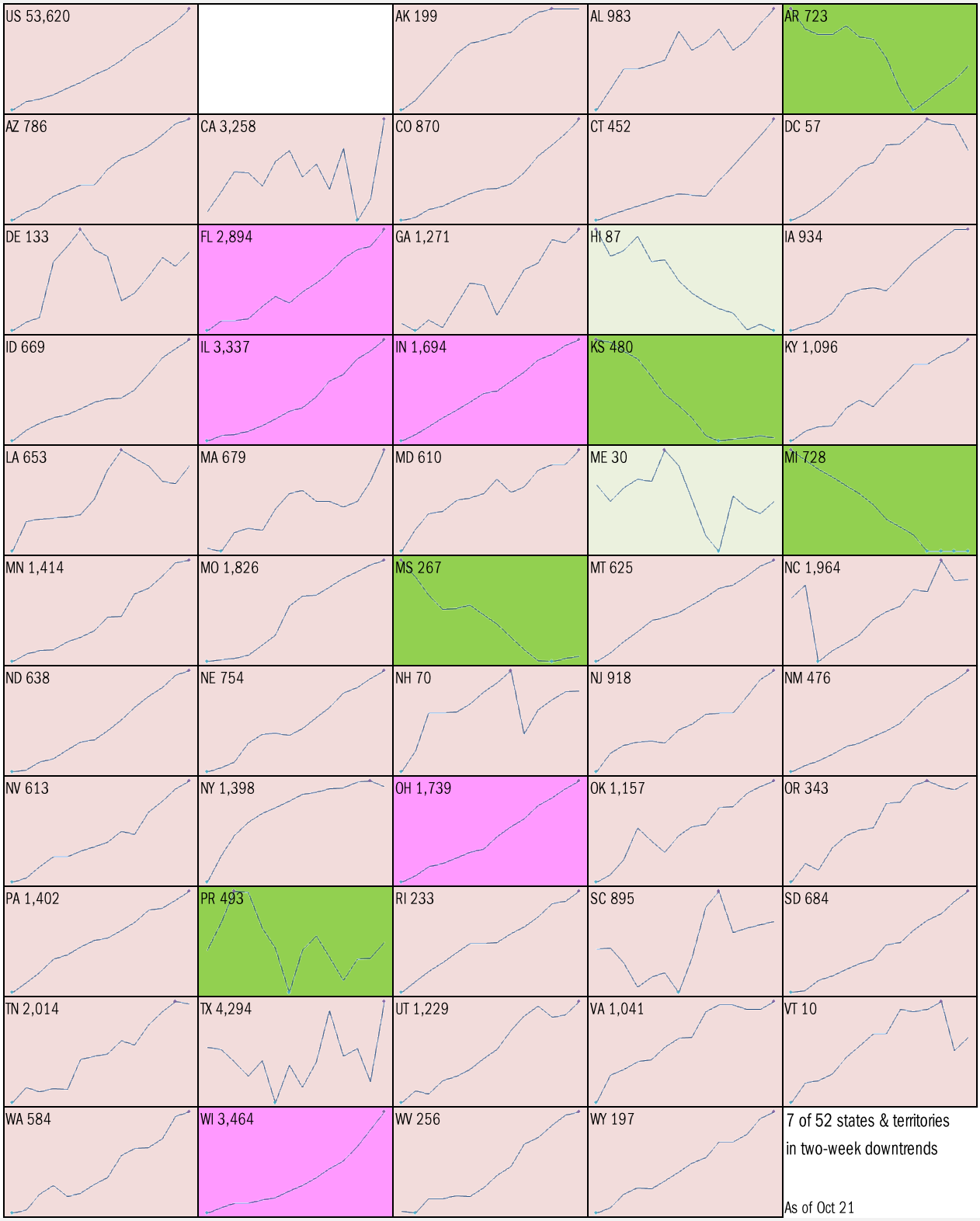


Source: ECDC, TrendMacro calculations

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

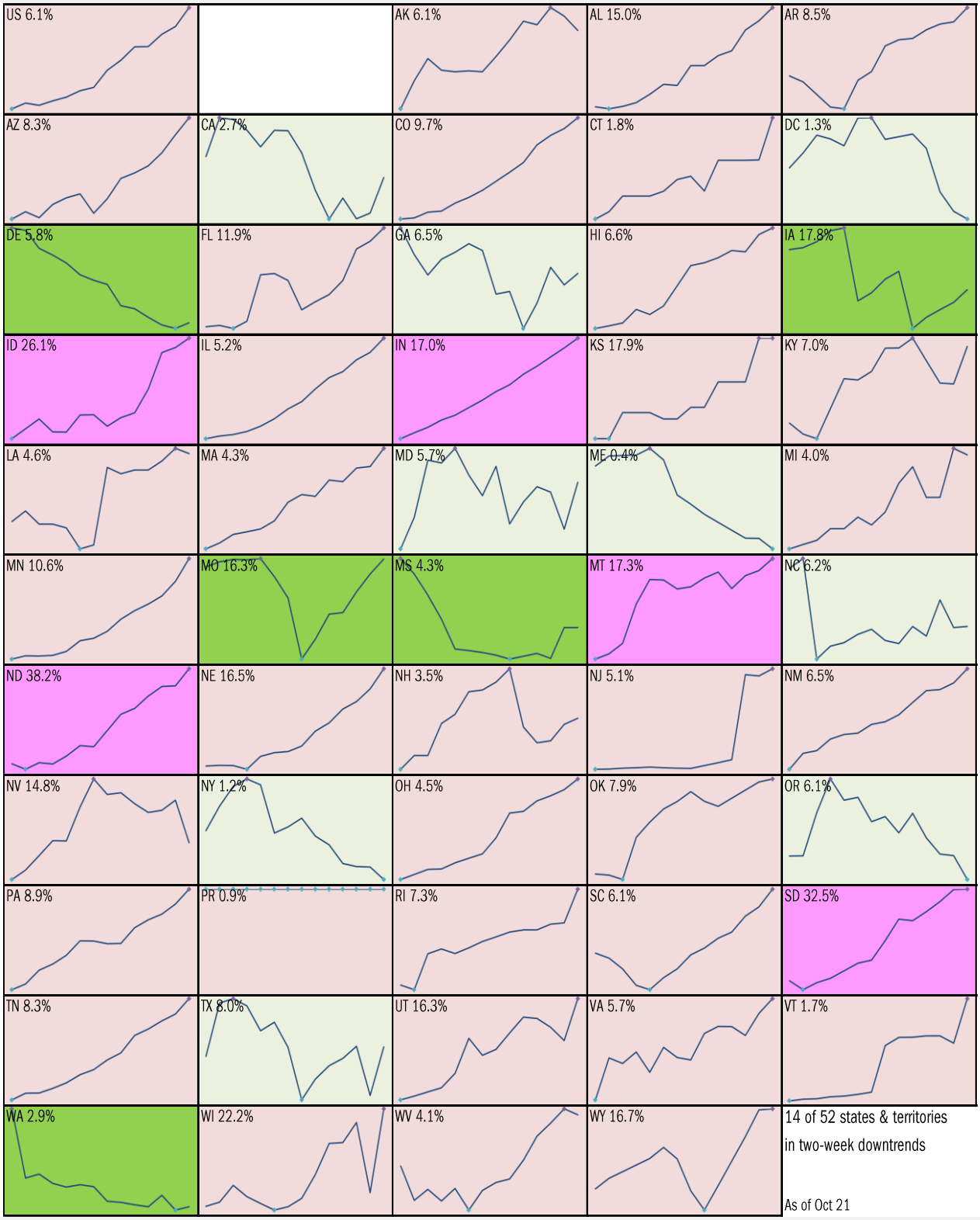


Source: Covid Tracking Project, TrendMacro calculations

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

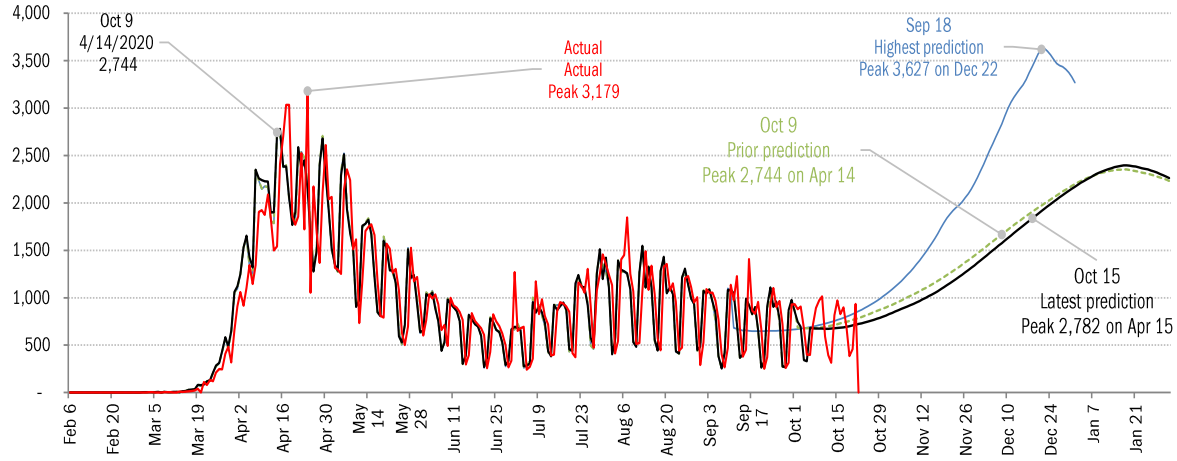


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

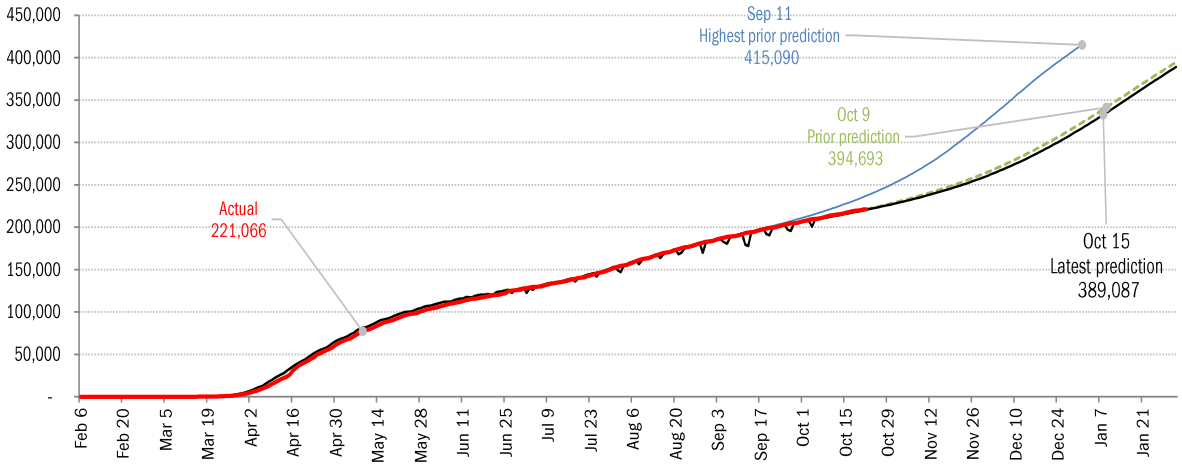
New daily fatalities As of Oct 21

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

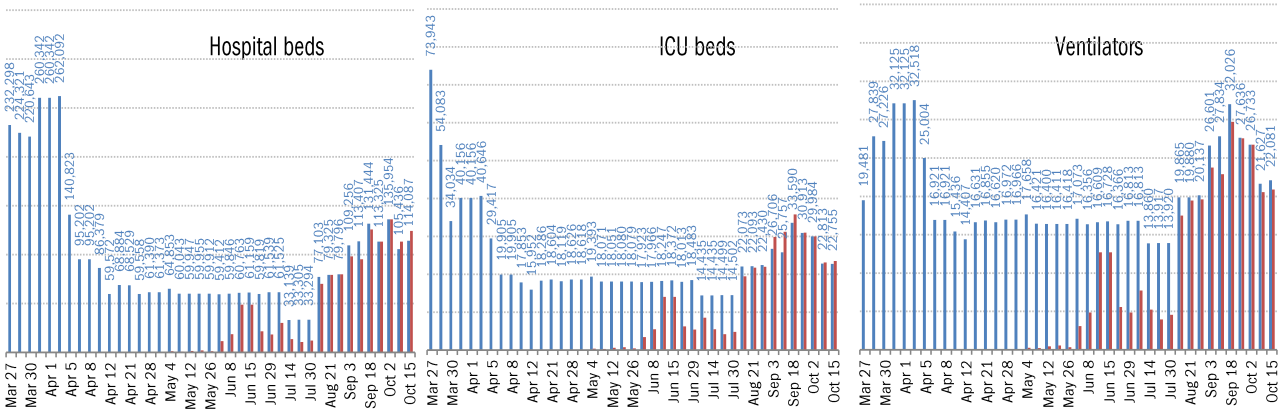


Cumulative fatalities

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

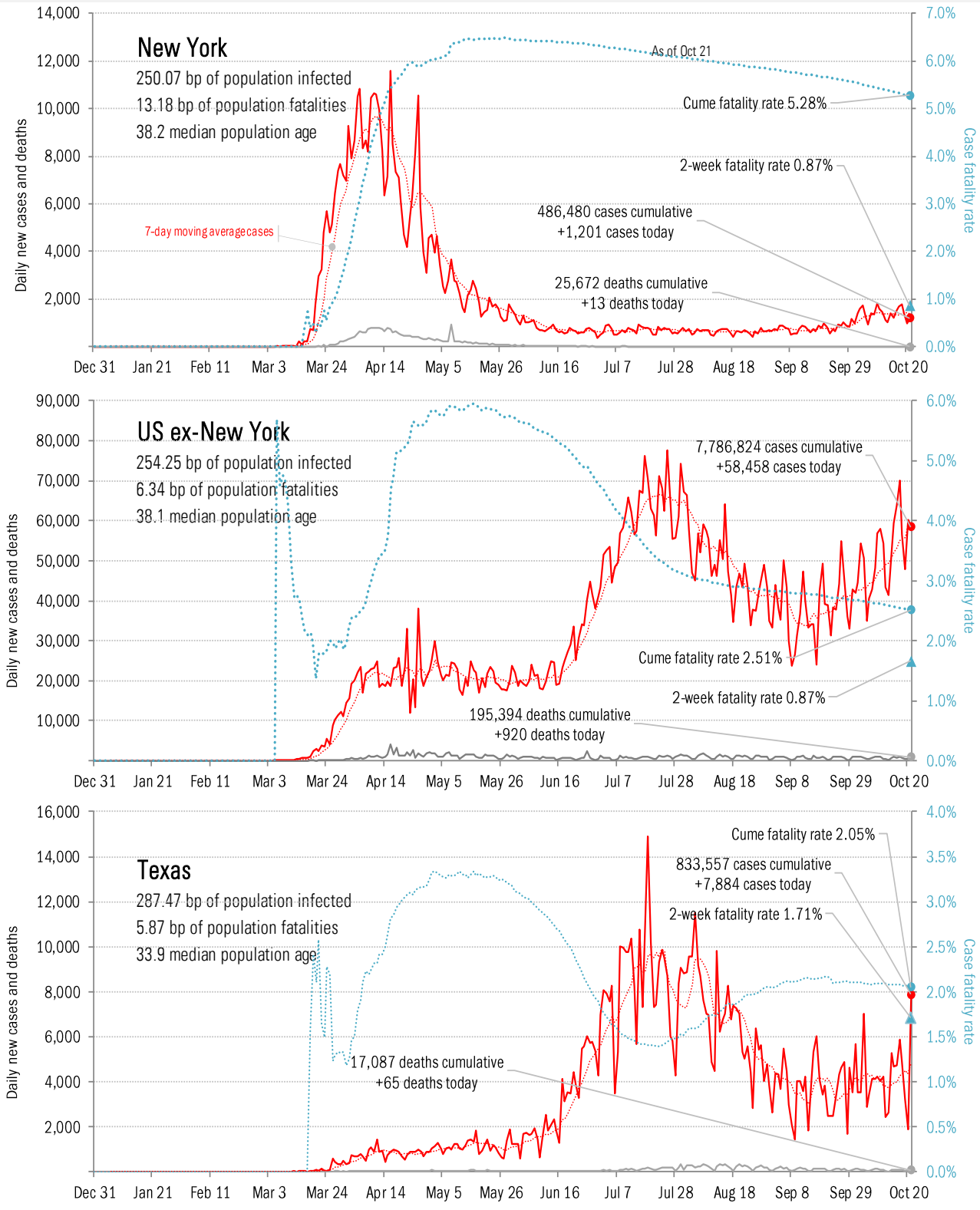


Healthcare system stress, peak and ultimate estimated at each model revision



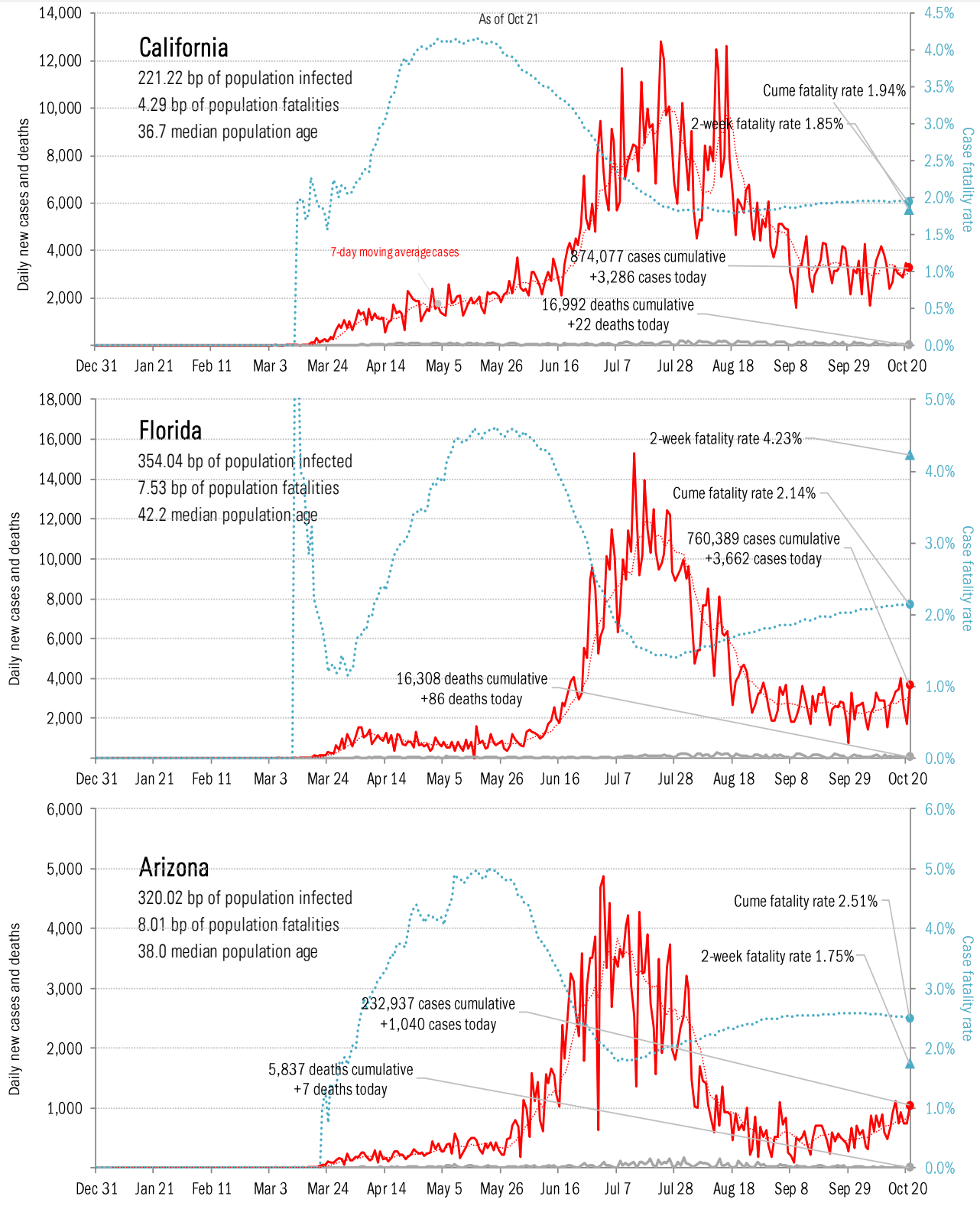
Source: ECDC, IHME, TrendMacro calculations

From Ground Zero to the Rio Grande



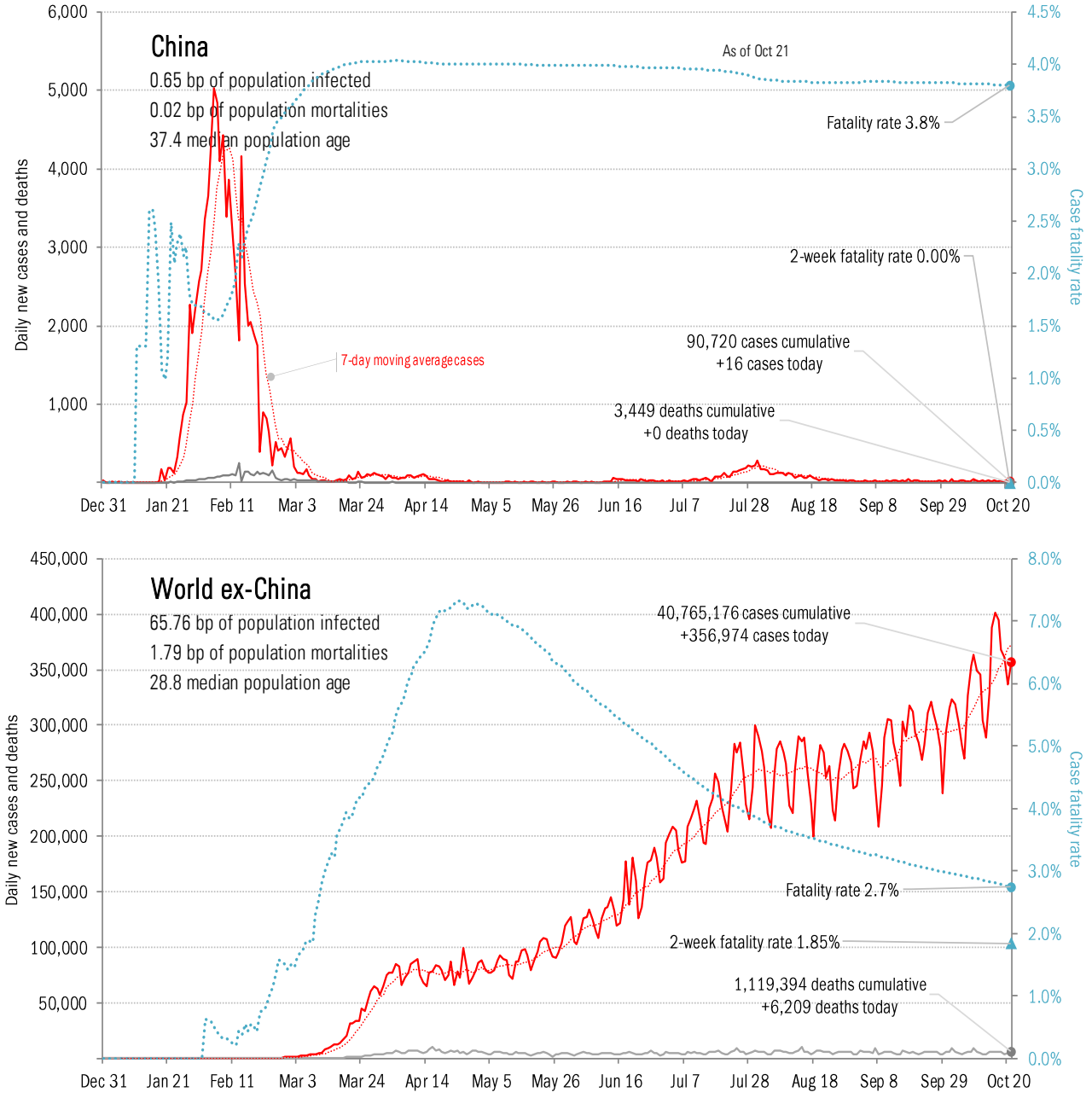
Source: ECDC, TrendMacro calculations

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



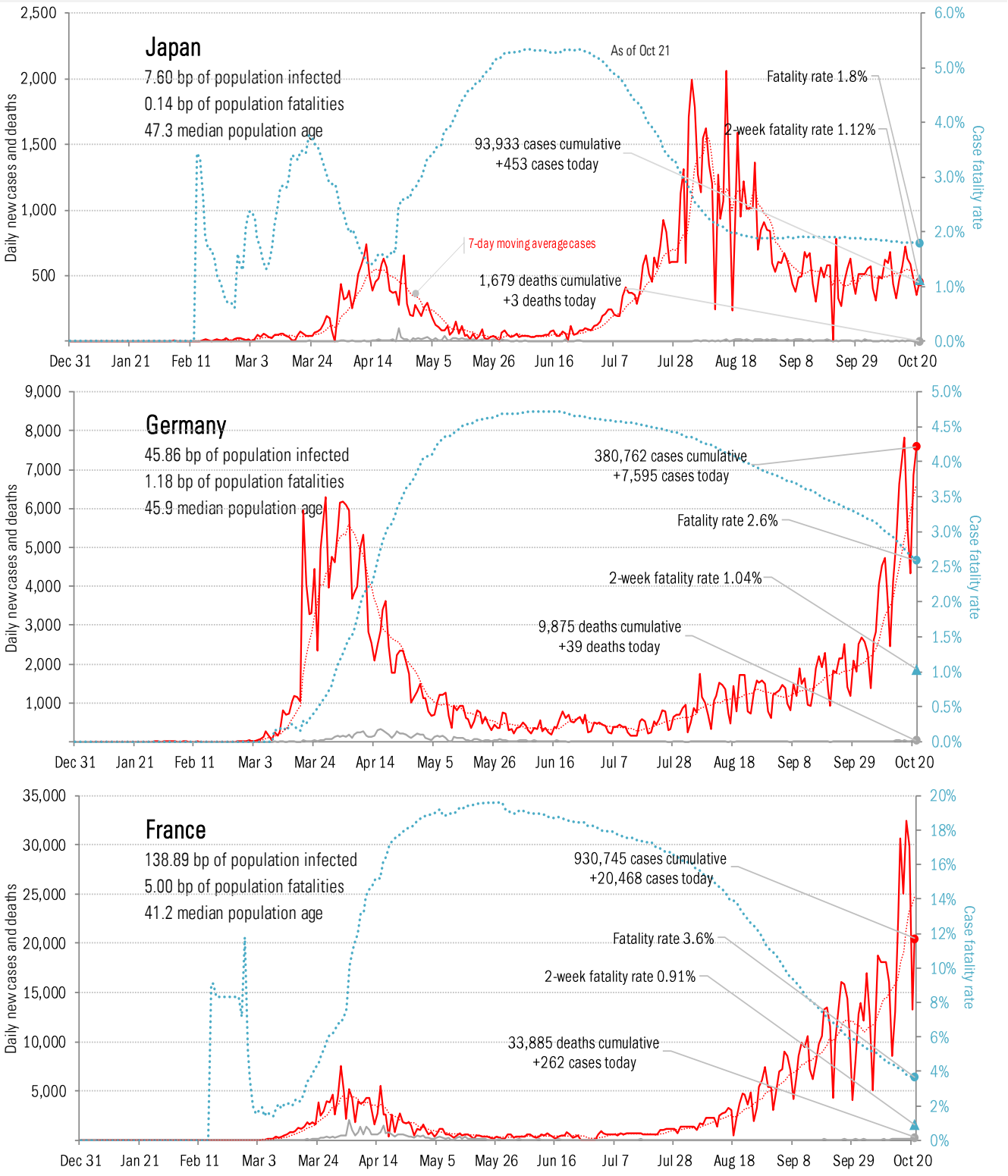
Source: ECDC, TrendMacro calculations

Patient zero… and then everyone else



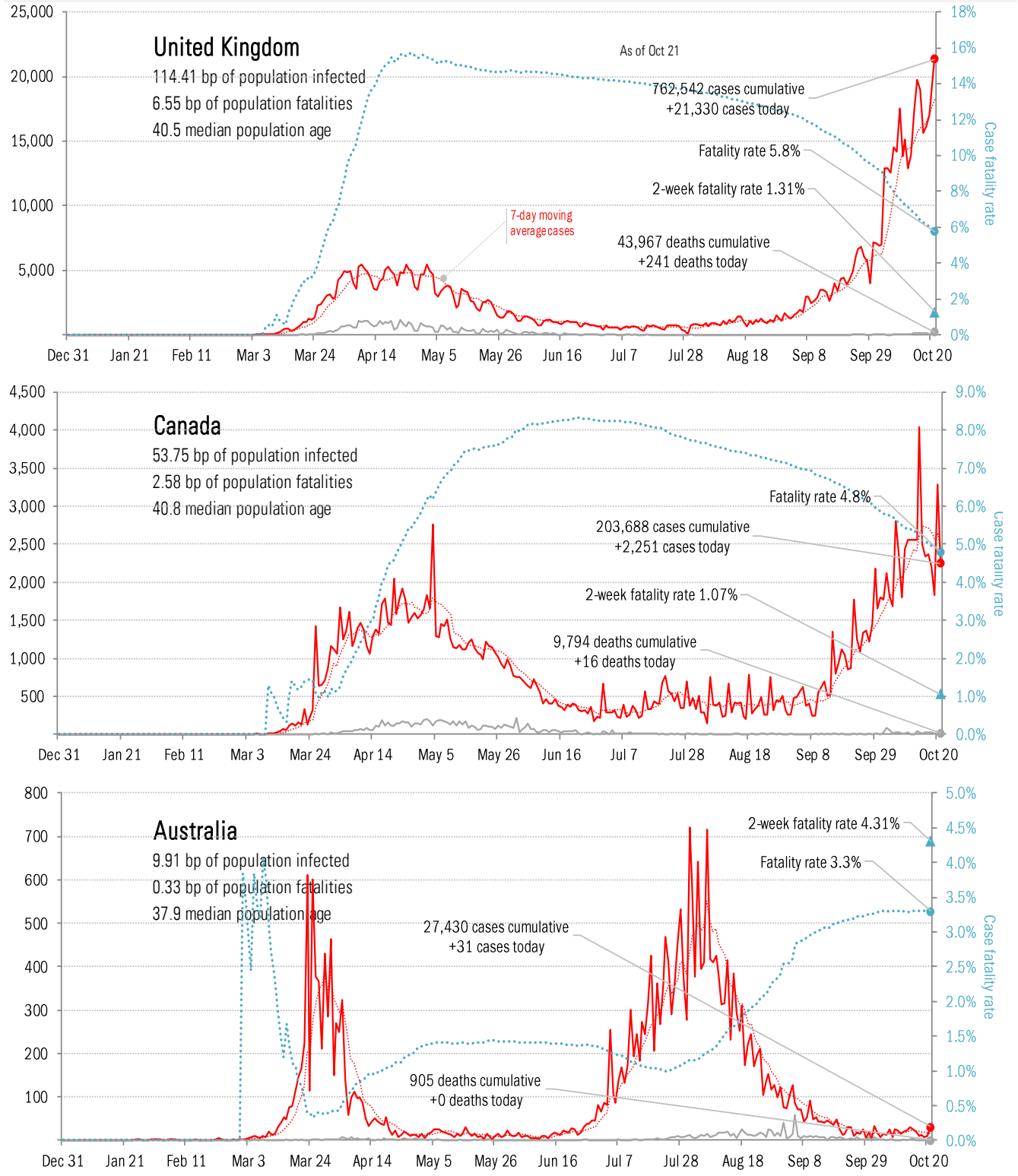
Source: ECDC, TrendMacro calculations

Impact in the largest economies



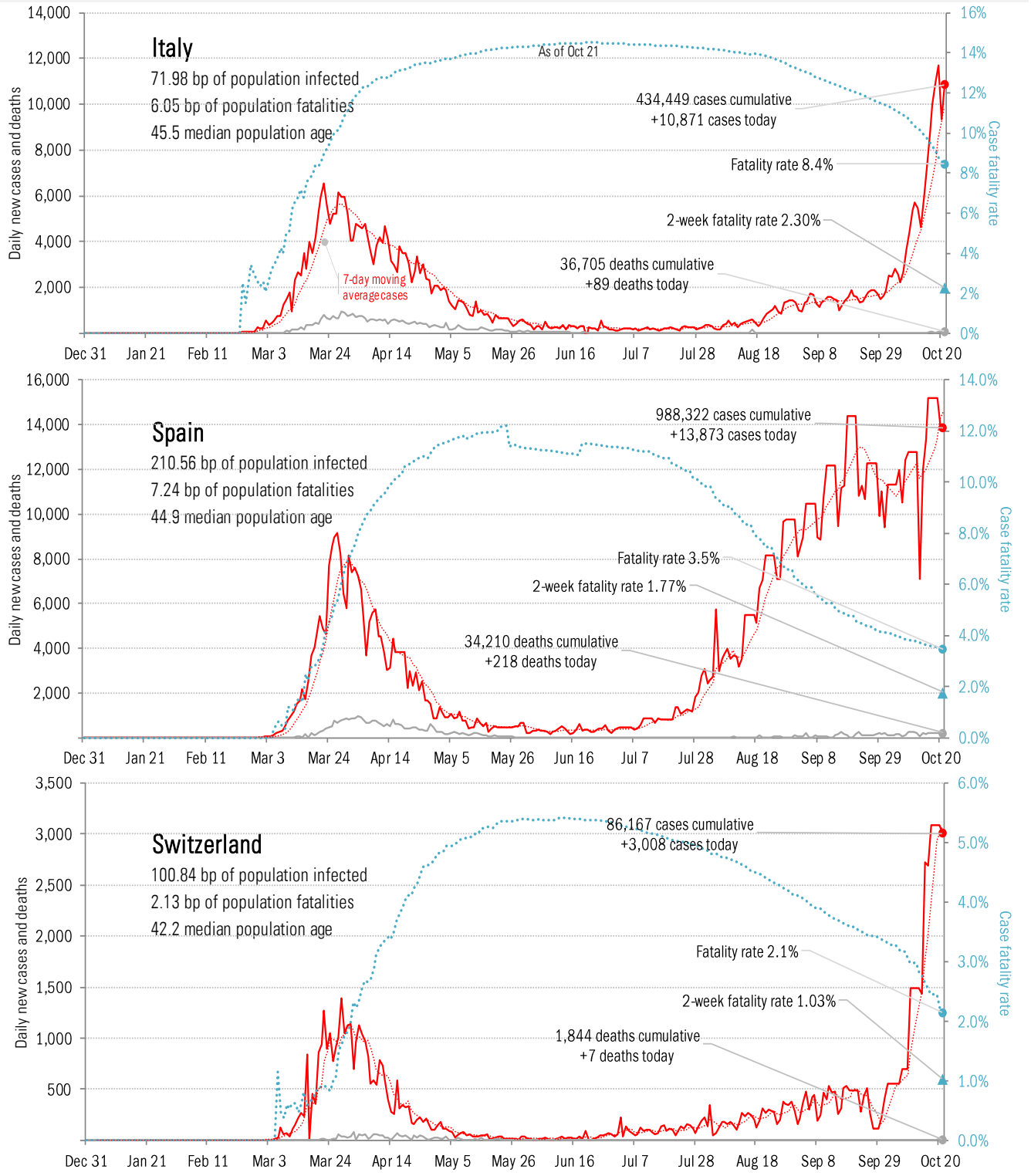
Source: ECDC, TrendMacro calculations

Impact in The Anglosphere



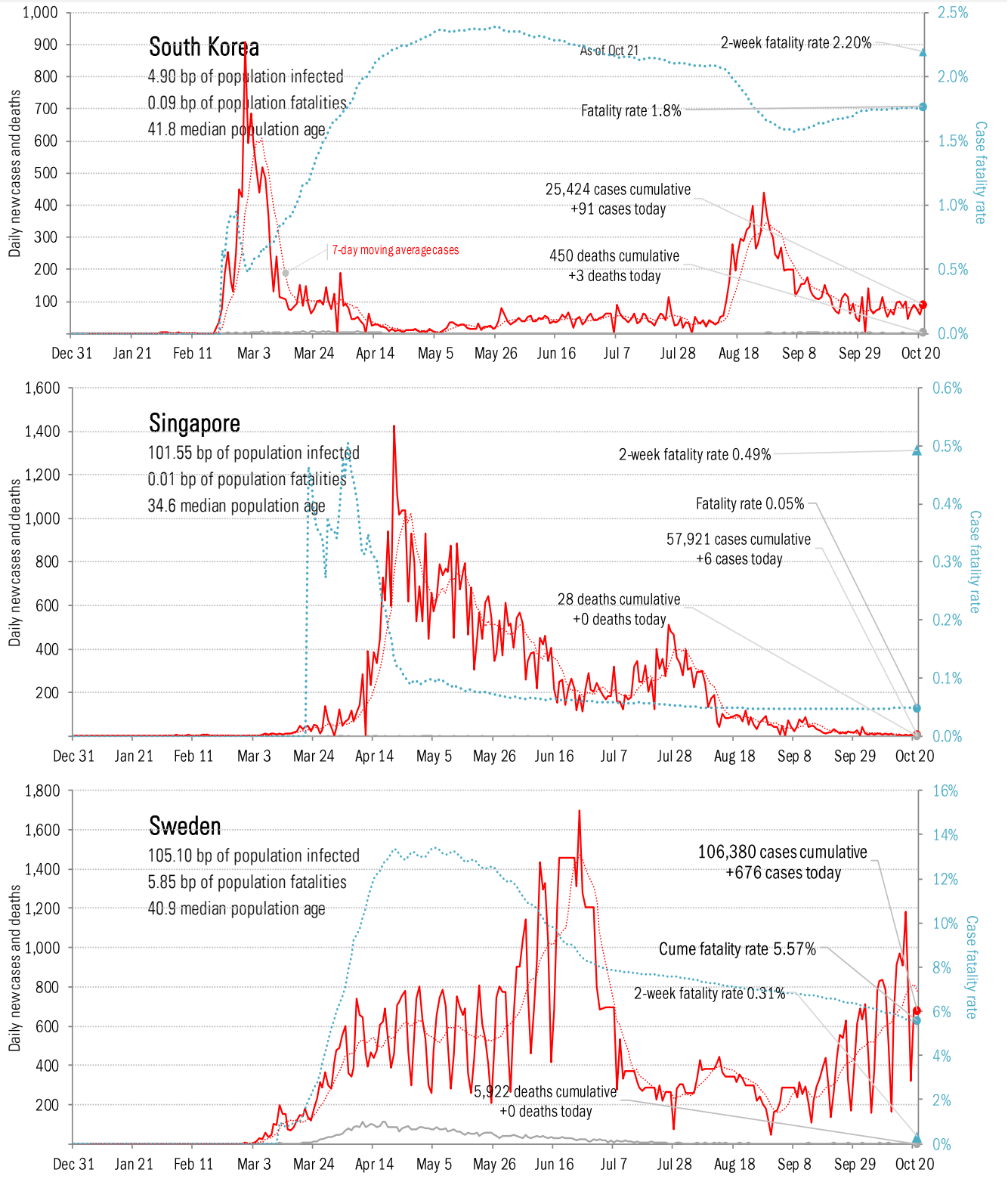
Source: ECDC, TrendMacro calculations

Impact in continental Europe



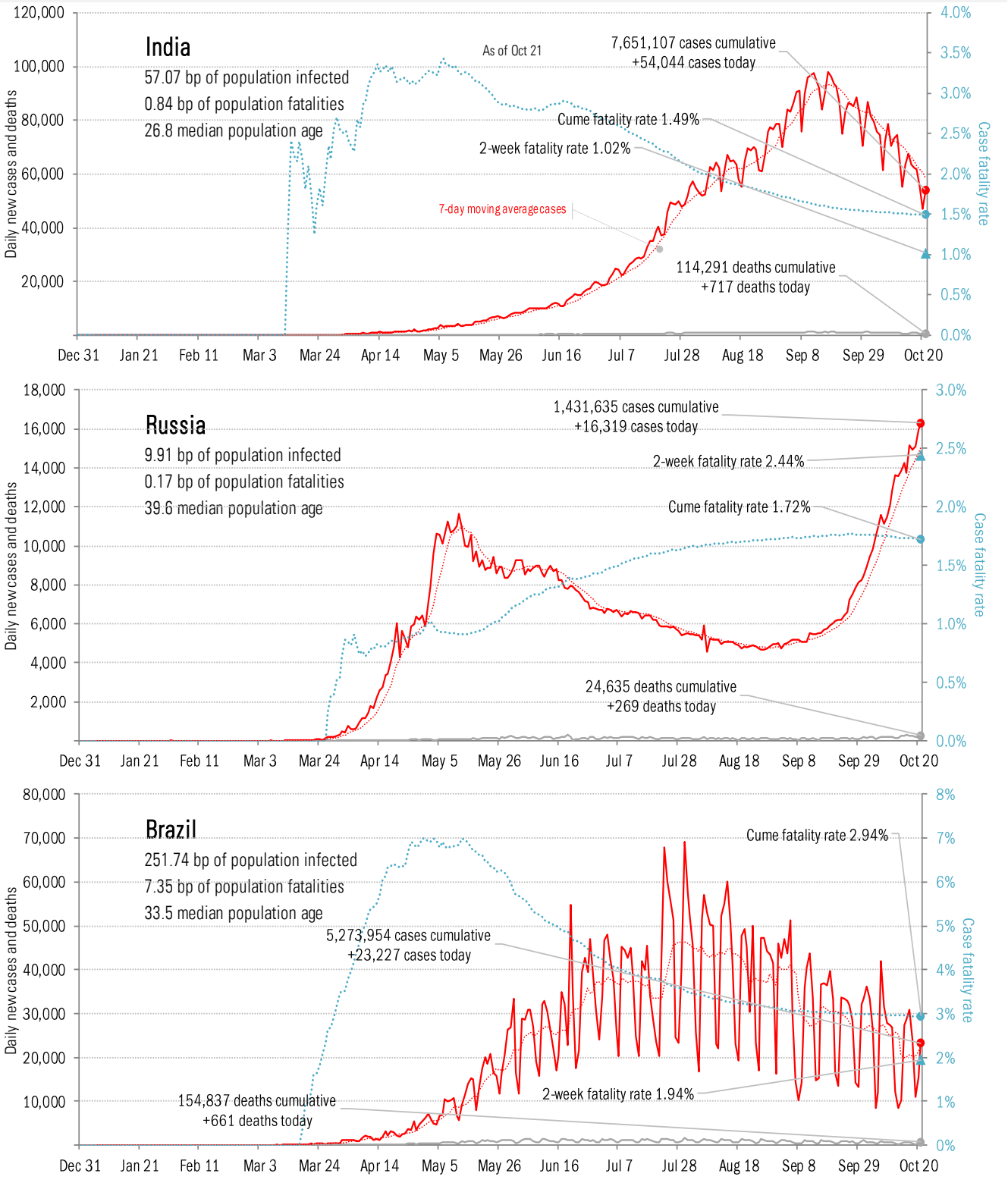
Source: ECDC, TrendMacro calculations

Impact in other hot-spots



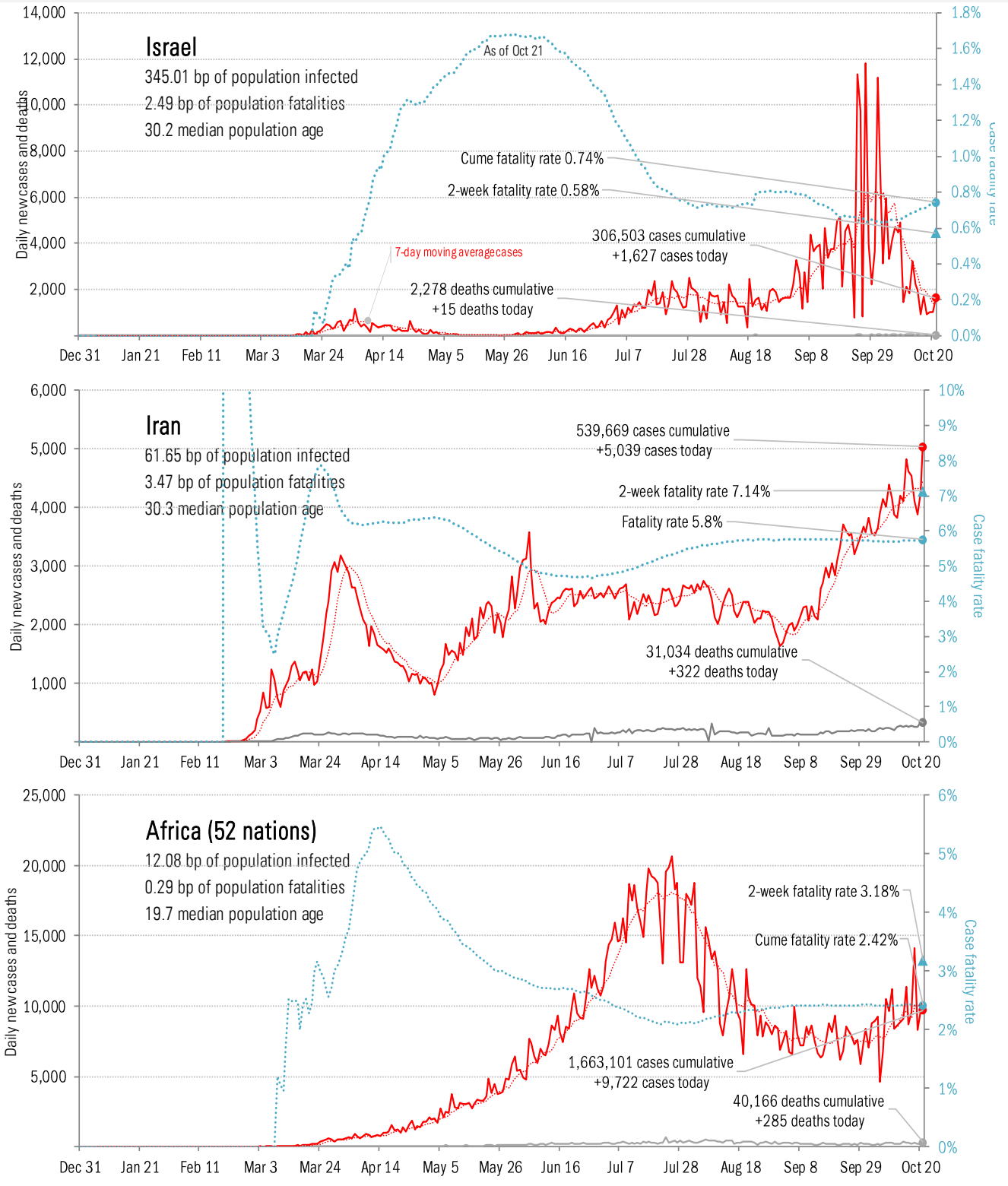
Source: ECDC, TrendMacro calculations

Impact in the BRICs ex-China



Source: ECDC, TrendMacro calculations

Impact in the Middle East and Africa



Source: ECDC, TrendMacro calculations