Trend Macrolytics, LLC
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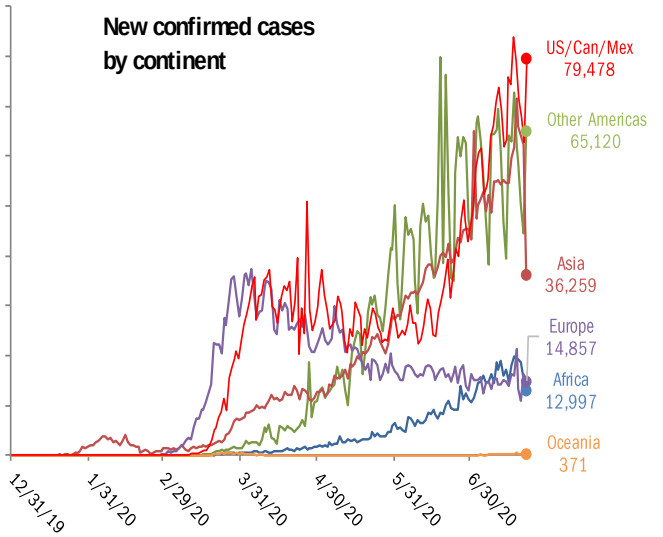
Data Insights: Covid-2019 Monitor

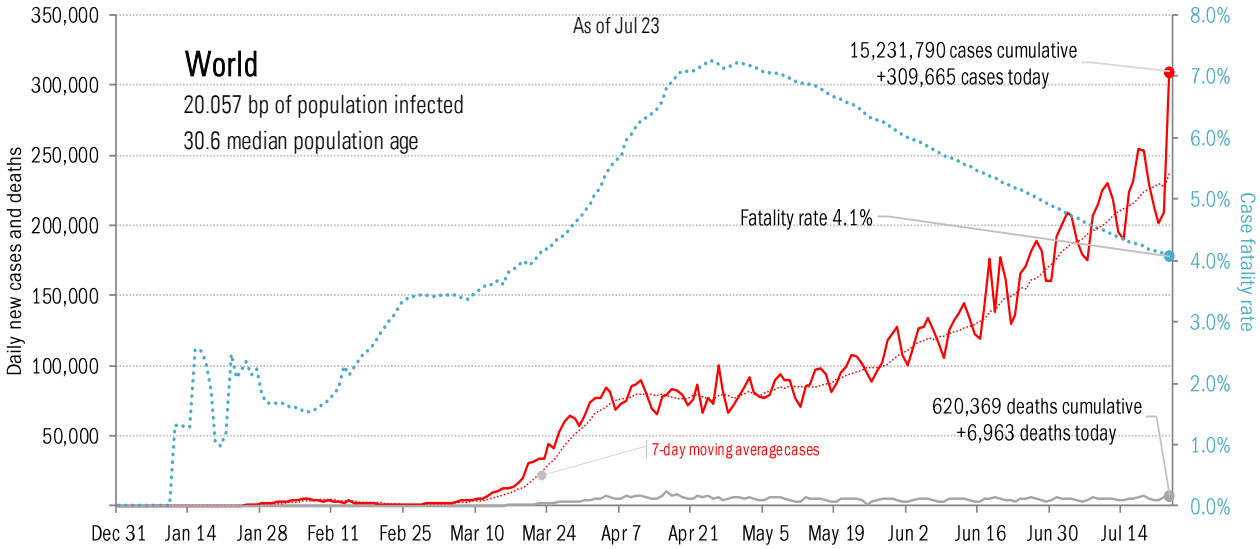
Thursday, July 23, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+74,452	Brazil	+1,284
US	+68,848	India	+1,129
Brazil	+67,860	US	+1,124
South_Africa	+13,150	Mexico	+790
Colombia	+7,390	South_Africa	+572
Mexico	+6,019	Iran	+219
Russia	+5,862	Colombia	+207
Argentina	+5,344	Peru	+188
Peru	+4,463	Russia	+165
Bangladesh	+2,744	Indonesia	+139
	+256,132		+5,817
World	+309,665	World	+6,963
Top ten	83%	Top ten	84%





Source: ECDC, TrendMacro calculations

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The US scorecard

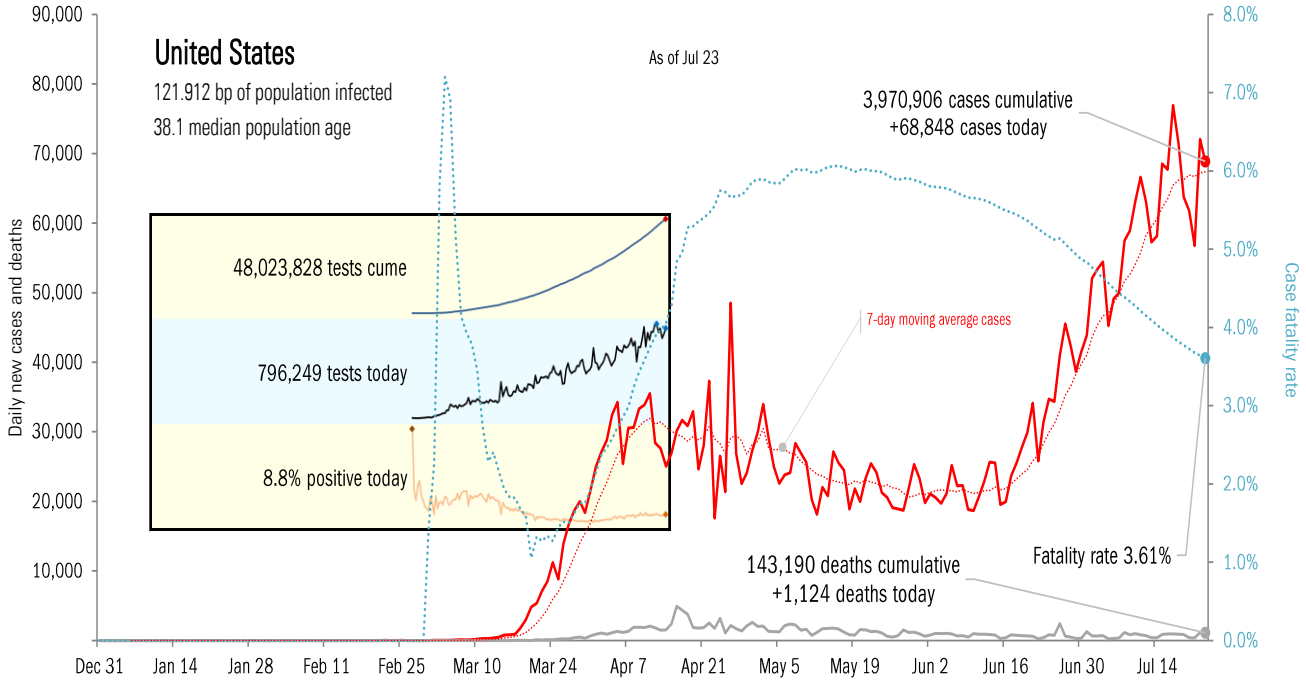
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
CA	+12,807	TX	+197	FL	+465	CA	413,576	NY	25,068	NY	89,995
TX	+9,879	FL	+140	GA	+428	NY	408,886	NJ	15,707	FL	22,588
FL	+9,785	CA	+115	AZ	+153	FL	379,619	MA	8,468	NJ	21,184
GA	+3,314	GA	+81	OK	+137	TX	351,618	CA	7,870	GA	15,922
LA	+2,771	SC	+64	OH	+128	NJ	177,645	IL	7,540	MD	11,997
TN	+2,473	LA	+62	TN	+109	IL	166,476	PA	7,063	MA	11,761
NC	+2,140	AL	+61	NJ	+85	GA	152,302	MI	6,388	VA	11,488
AZ	+1,926	AZ	+56	IN	+79	AZ	150,609	FL	5,459	CT	10,654
OK	+1,868	MS	+34	VA	+64	MA	114,320	CT	4,406	OH	9,864
SC	+1,705	NC	+30	AR	+60	NC	105,001	TX	4,348	AL	8,538
	+48,668		+840		+1,708		2,420,052		92,317		213,991
All states	+70,043	All states	+1,126	All states	+2,248	All states	3,946,708	All states	135,438	All states	283,829
Top ten	69%	Top ten	75%	Top ten	76%	Top ten	61%	Top ten	68%	Top ten	75%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
AZ	-1,574	AZ	-78	SC	-316	TX	+8,786
WI	-414	NJ	-52	AL	-170	LA	+8,168
PA	-396	MD	-17	VA	-95	TN	+1,896
PR	-381	OH	-14	FL	-53	OK	+1,846
MD	-233	VA	-14	AZ	-43	OH	+1,349



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

Recommended reading

[Preschooler Parents Face the Toughest Choice as Offices Reopen]
Breanna T Bradham
Bloomberg
July 22, 2020

[Child care costs more in 2020, and the pandemic has parents scrambling for solutions]
Care.com
June 15, 2020

[Contact Tracing during Coronavirus Disease Outbreak, South Korea, 2020]
Young Joon Park et al.
Emerging Infectious Diseases
October 2020

[New York Times-Hyped Korean Report Actually Shows Kids Are Not Spreading Coronavirus]
Phil Kerpen
The Federalist
July 22, 2020

[No known case of teacher catching coronavirus from pupils, says scientist]
Mark McLaughlin, Marc Horne and Rosemary Bennett
The Times
July 21 2020

[The horror of living with coronavirus asymptomatically]
Rucha Mehta Shah
Washington Post
July 21, 2020

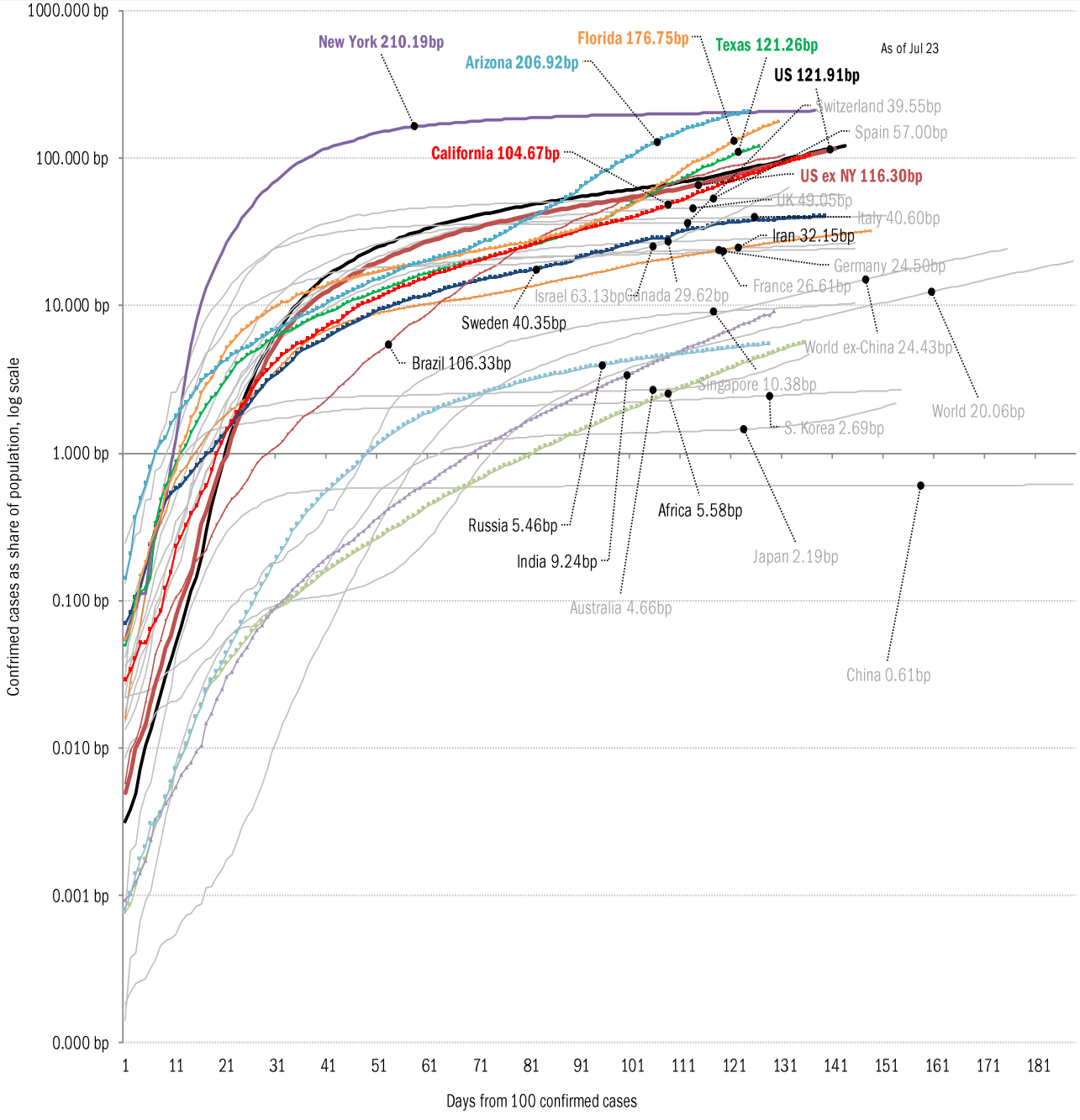
[U.S. Orders Up to 600 Million Doses of Pfizer, BioNTech Covid Vaccine]
James Paton
Bloomberg
July 22, 2020

Meme of the day

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

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

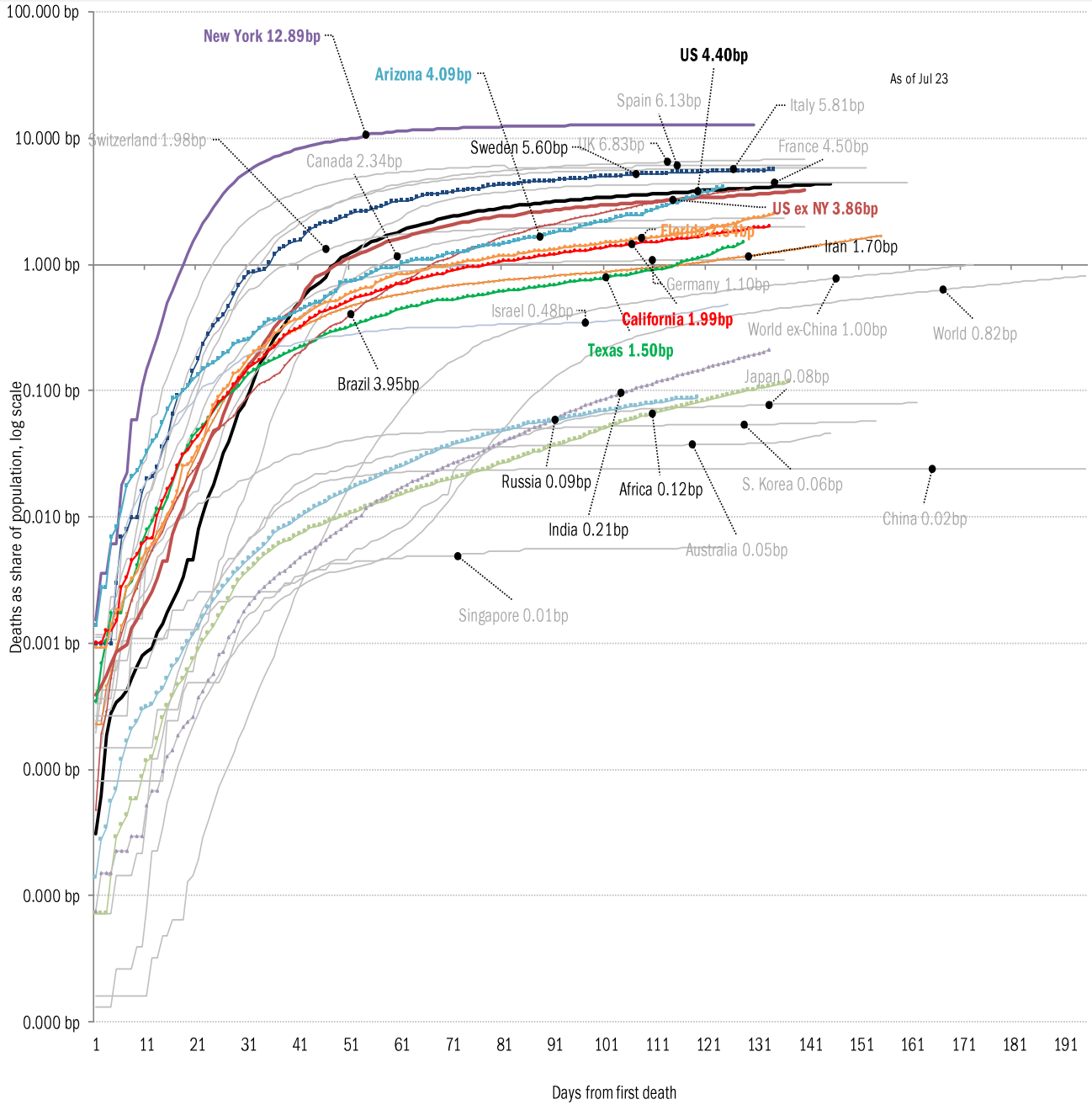
Share of infected population from first day with 100 confirmed cases, log scale



Source: ECDC, TrendMacro calculations

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

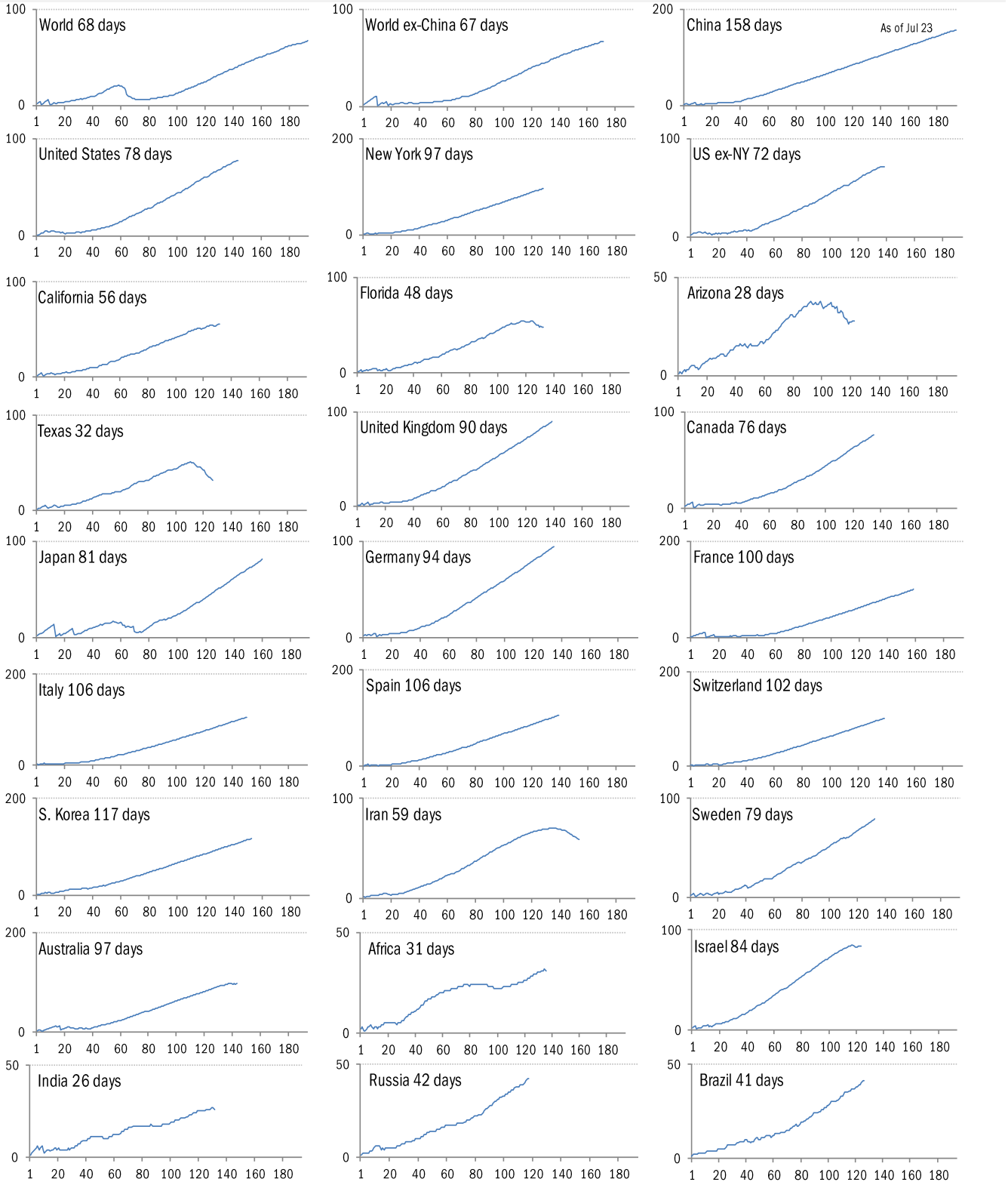
Share of deceased population from day of first fatality



Source: ECDC, TrendMacro calculations

Our most reliable evidence of slowing exponential growth of Covid-2019

Vertical: number of days it takes to double deaths Horizontal: days from first death

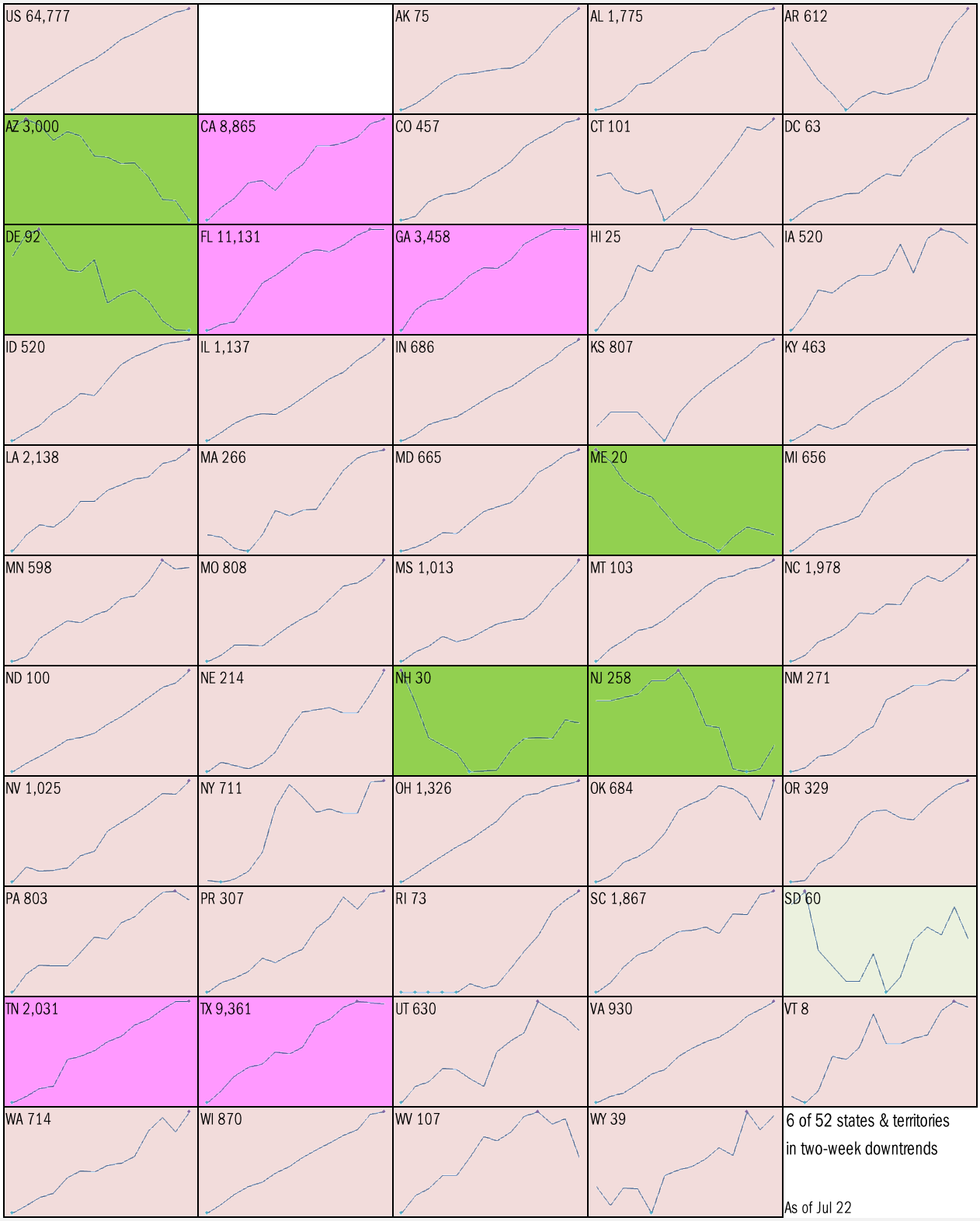


Source: ECDC, TrendMacro calculations

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

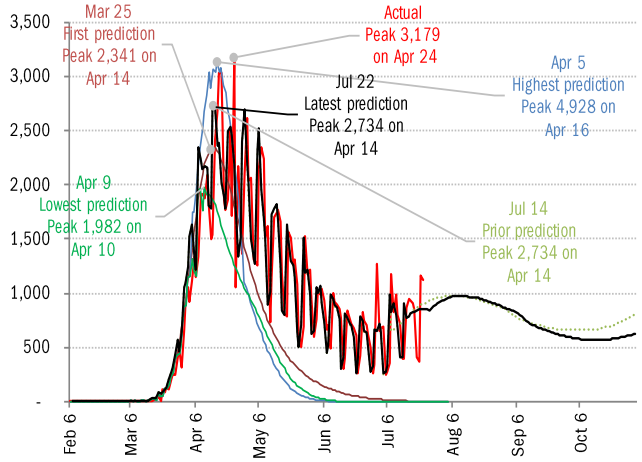
Downward trajectory Five best Upward trajectory Five worst

Source: Covid Tracking Project, TrendMacro calculations

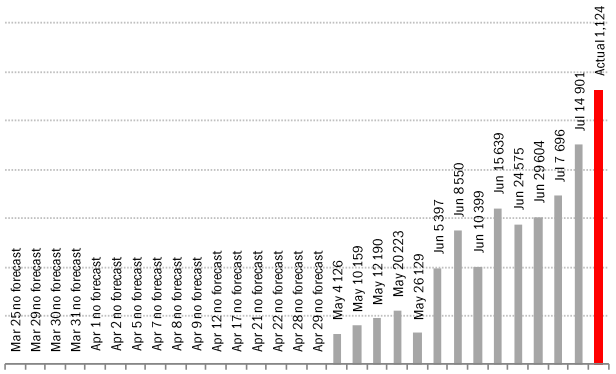
Reality-checking the models: actuals versus IHME predictions

New daily fatalities As of Jul 23

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

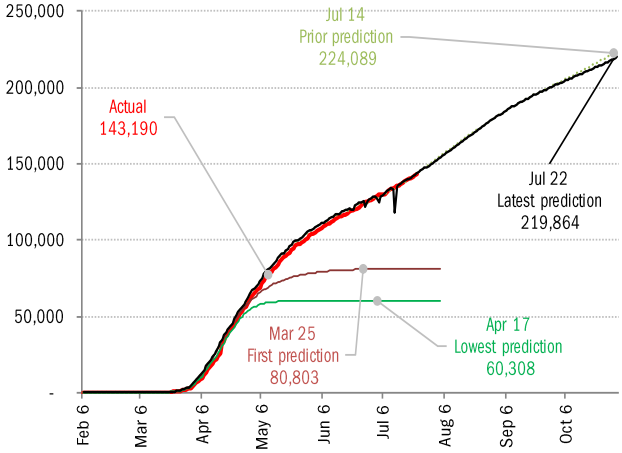


For this day, versus all model mean predictions

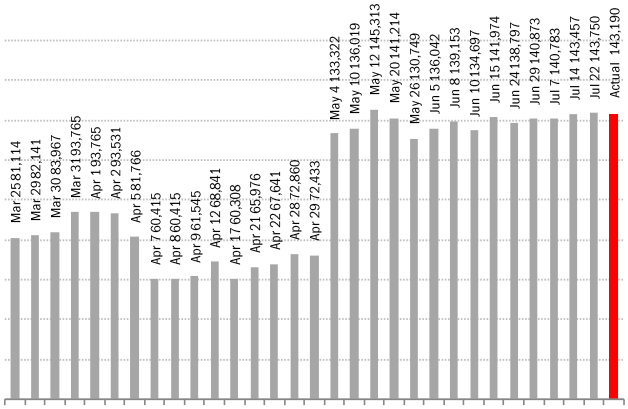


Cumulative fatalities

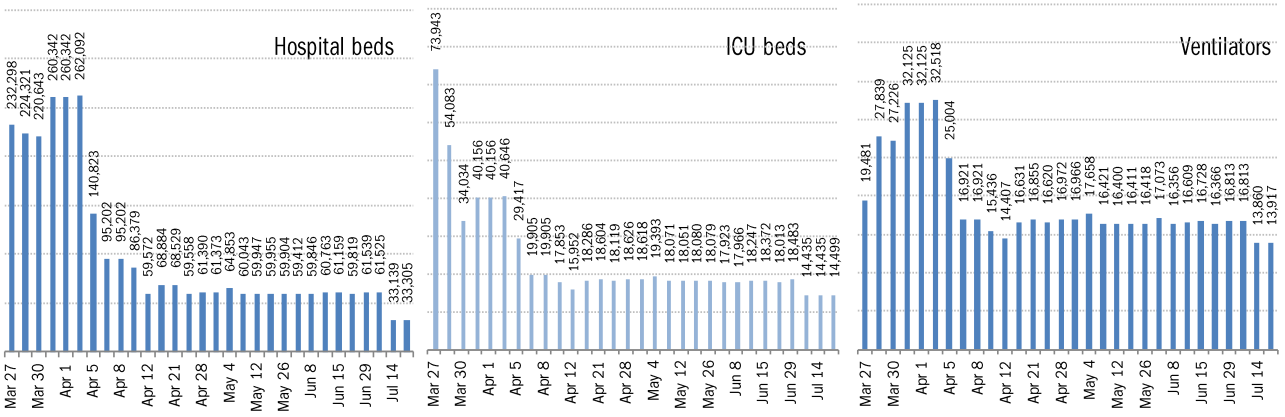
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

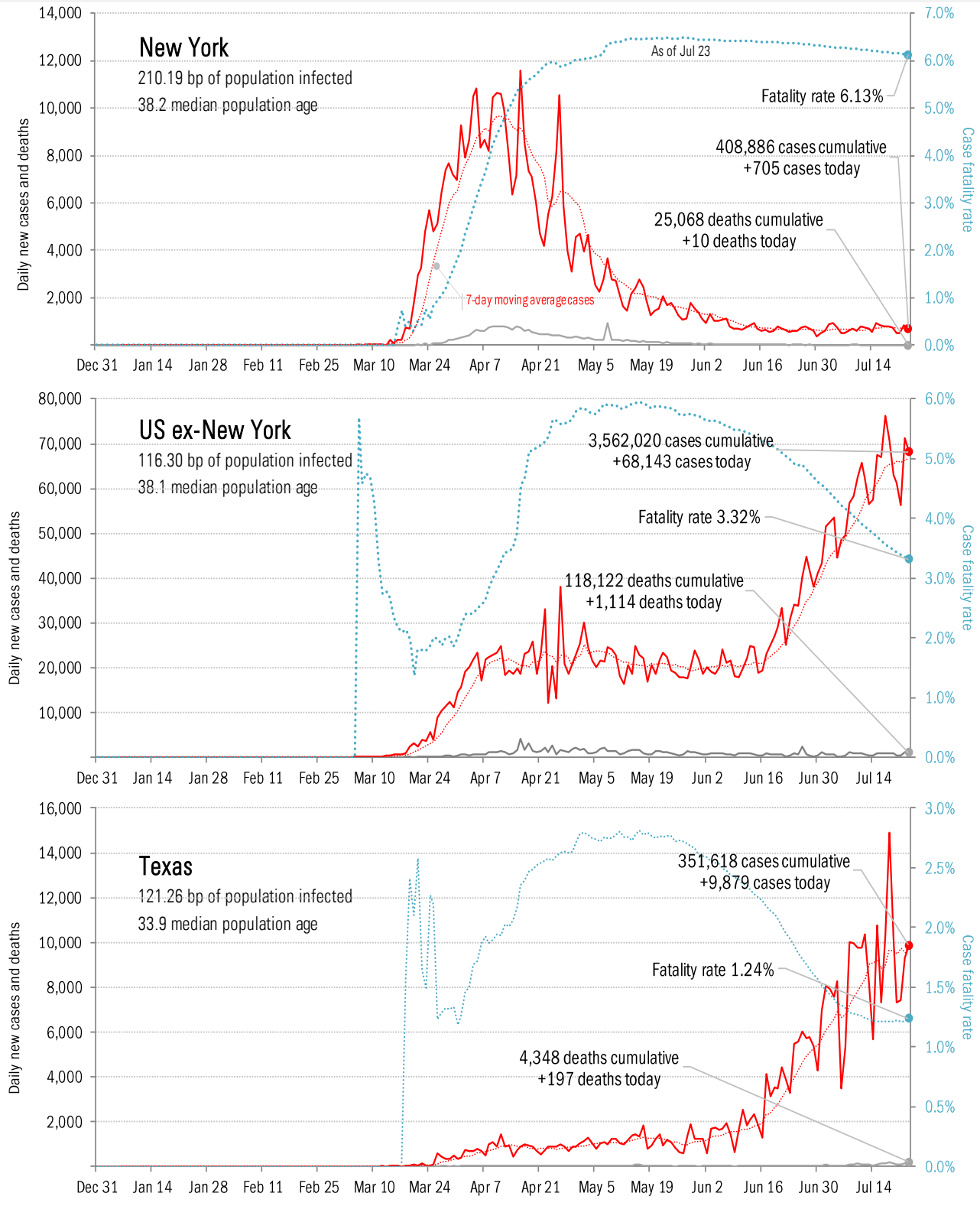


Healthcare system stress, peak estimated at each model revision



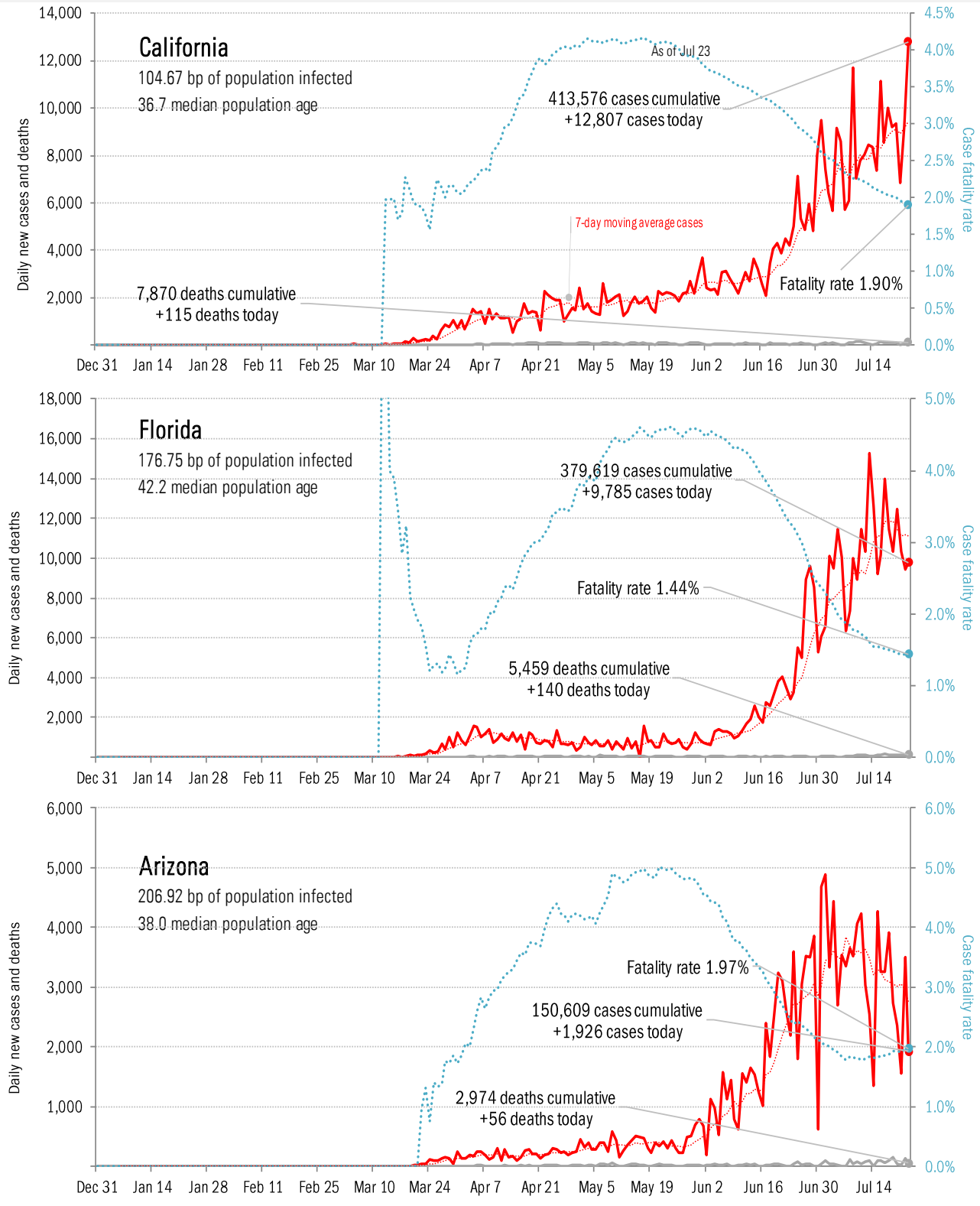
Source: ECDC, IHME, TrendMacro calculations

From Ground Zero to the Rio Grande



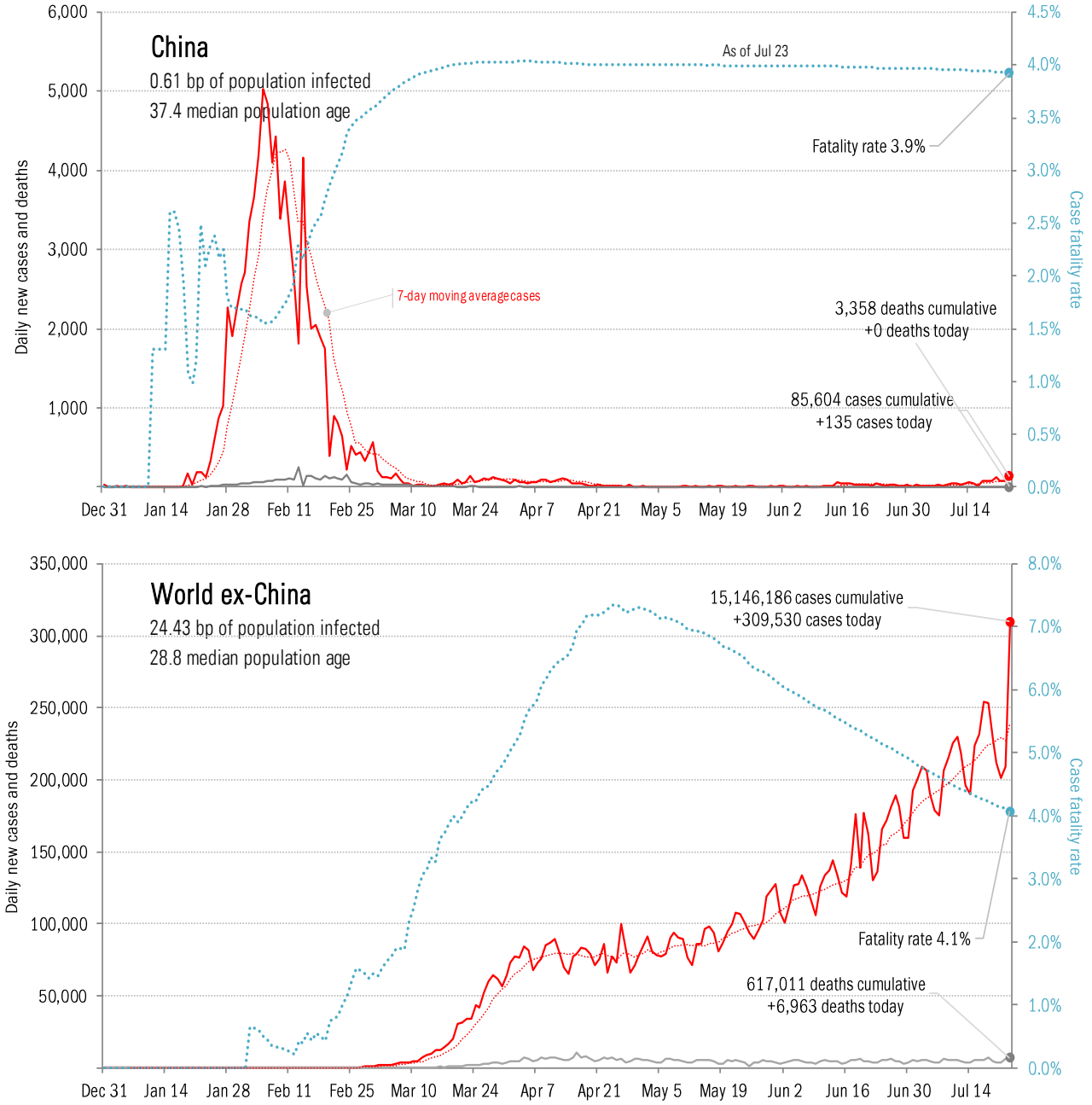
Source: ECDC, TrendMacro calculations

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



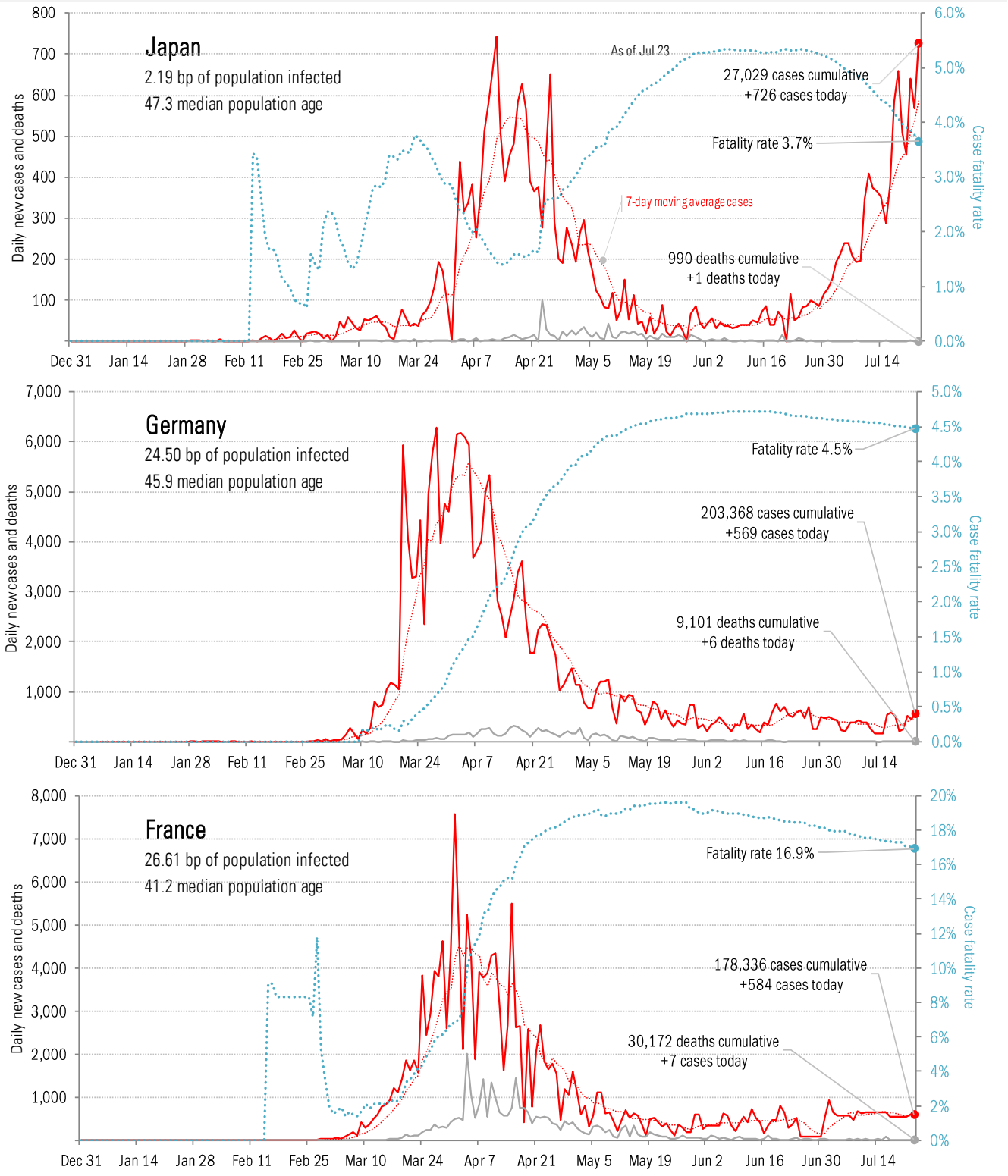
Source: ECDC, TrendMacro calculations

Patient zero… and then everyone else



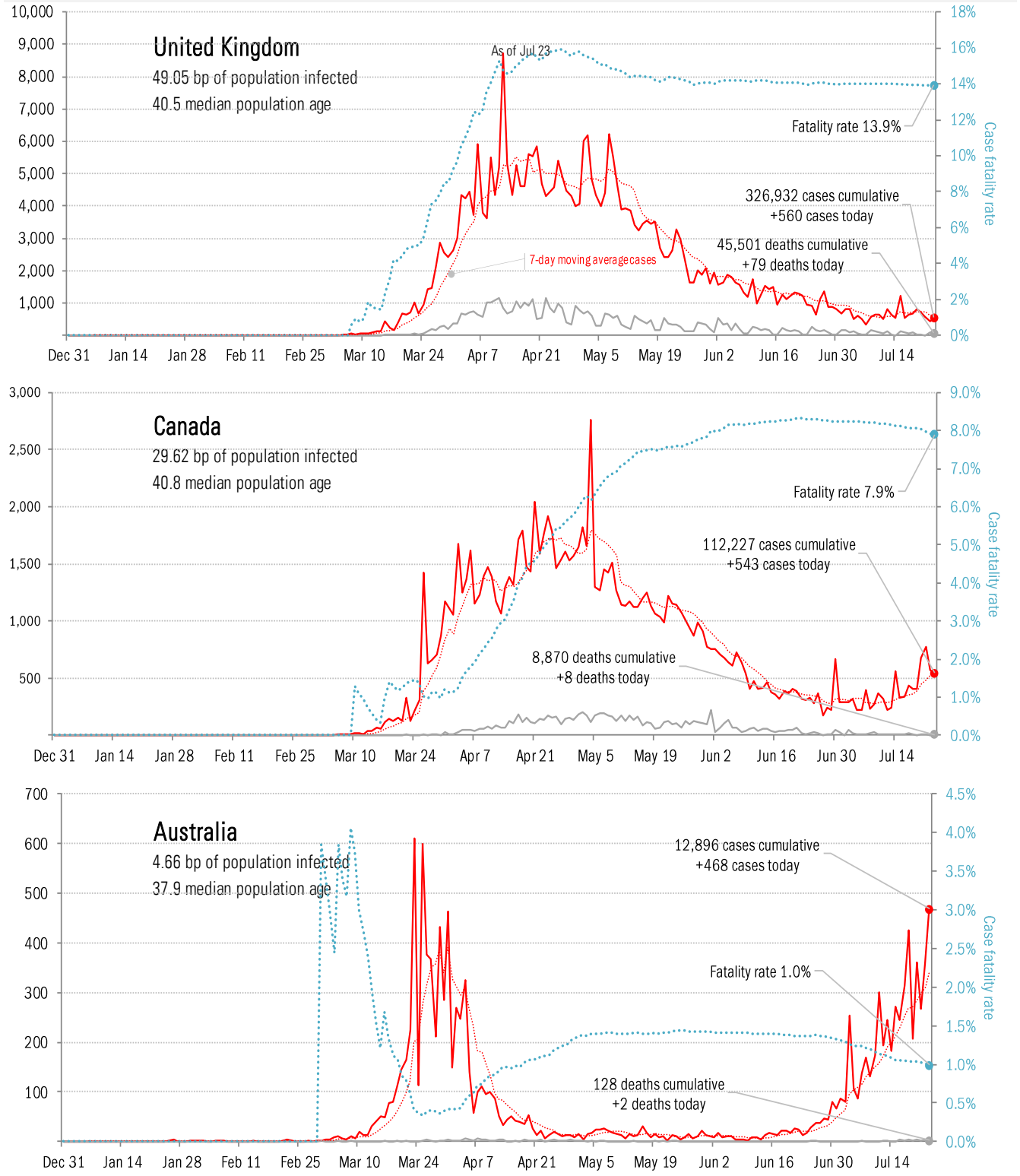
Source: ECDC, TrendMacro calculations

Impact in the largest economies



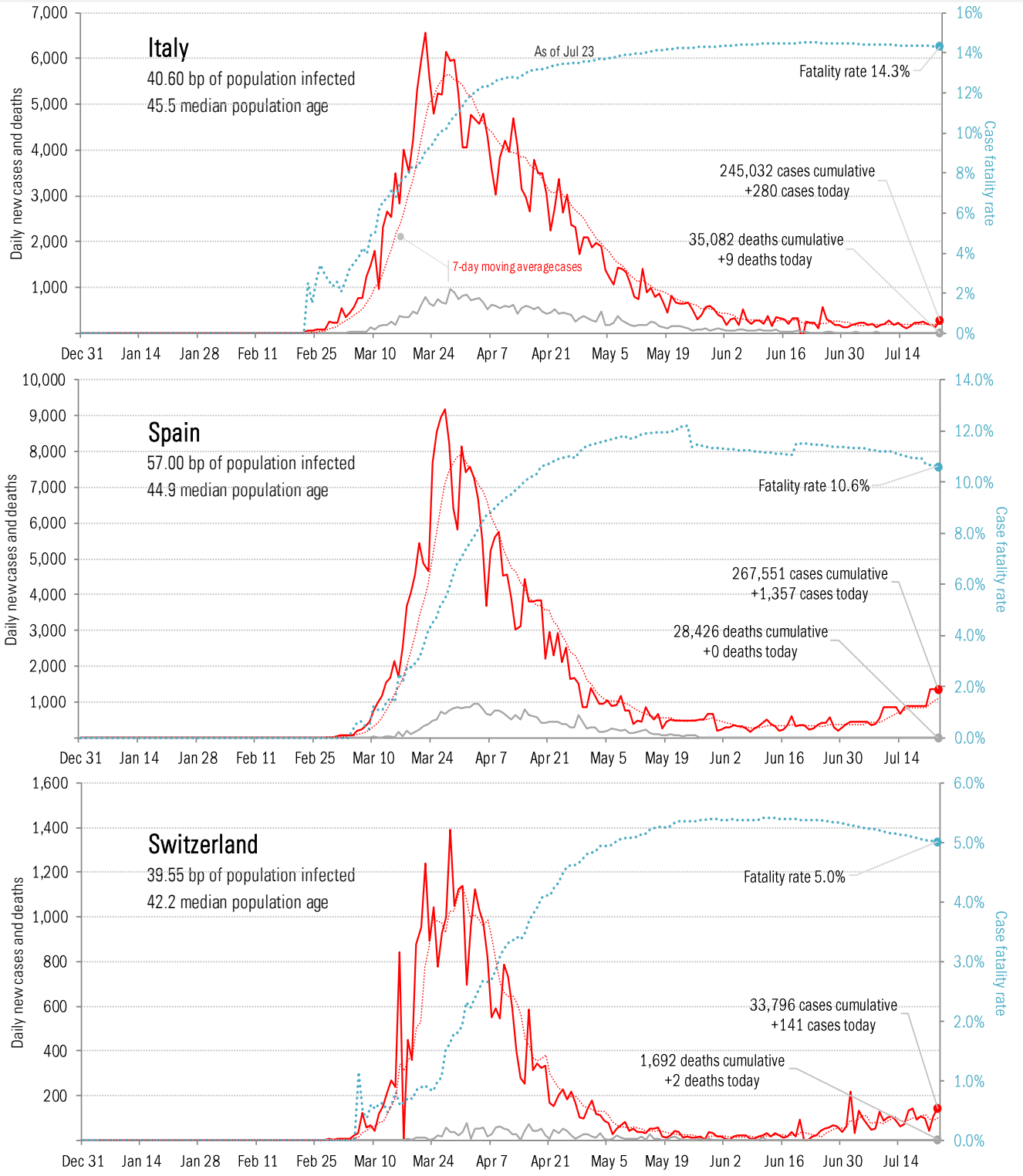
Source: ECDC, TrendMacro calculations

Impact in The Anglosphere



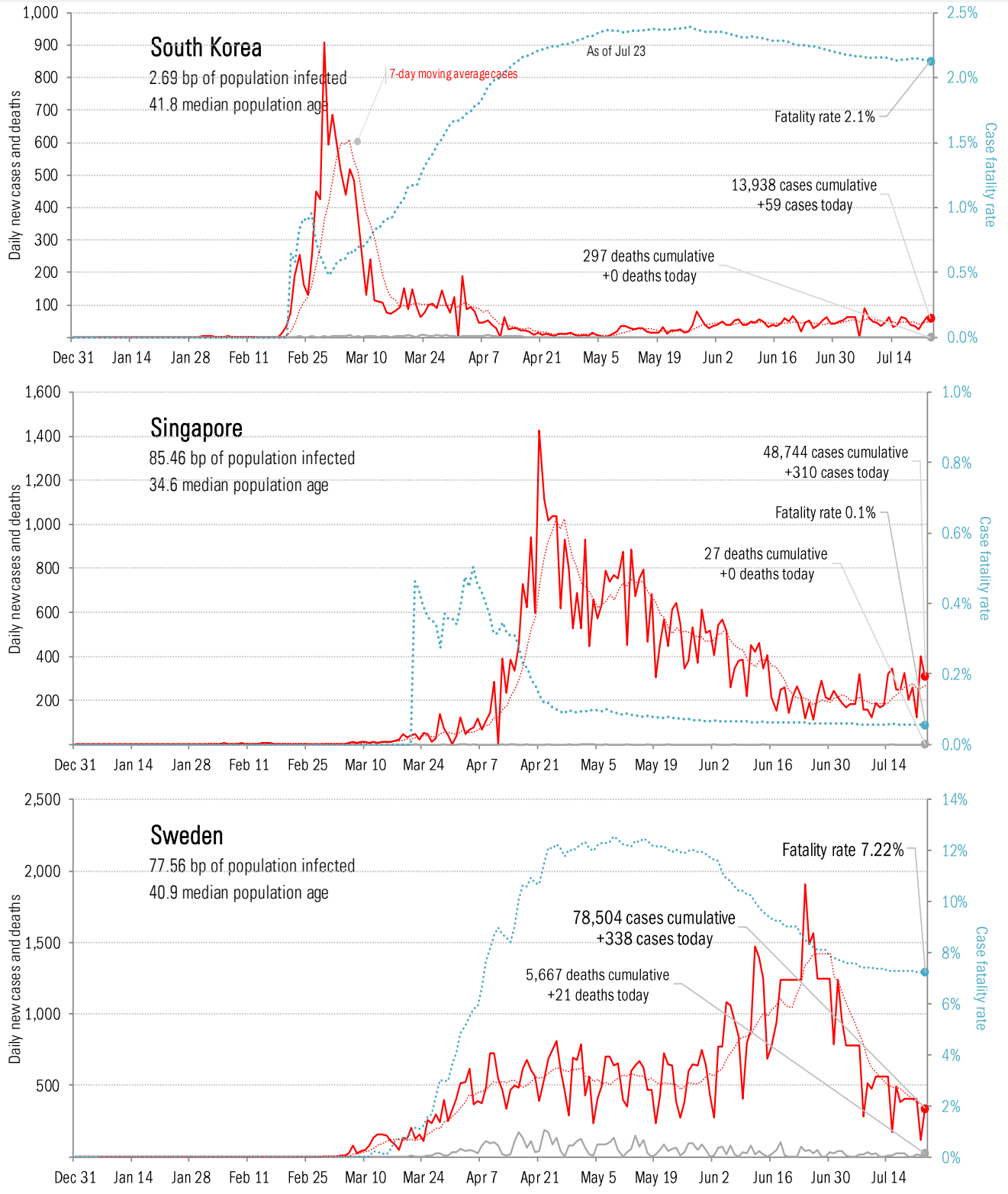
Source: ECDC, TrendMacro calculations

Impact in continental Europe



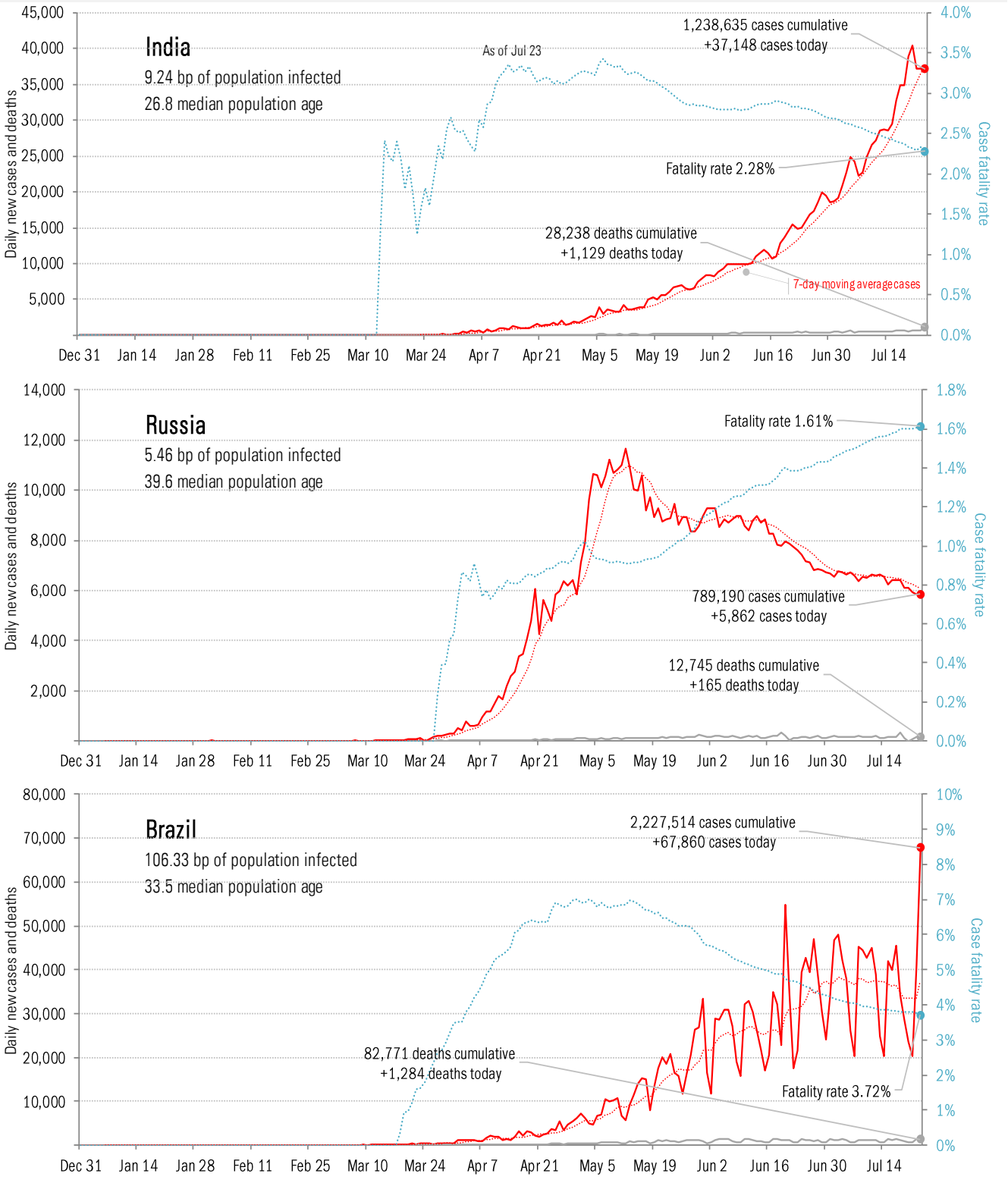
Source: ECDC, TrendMacro calculations

Impact in other hot-spots



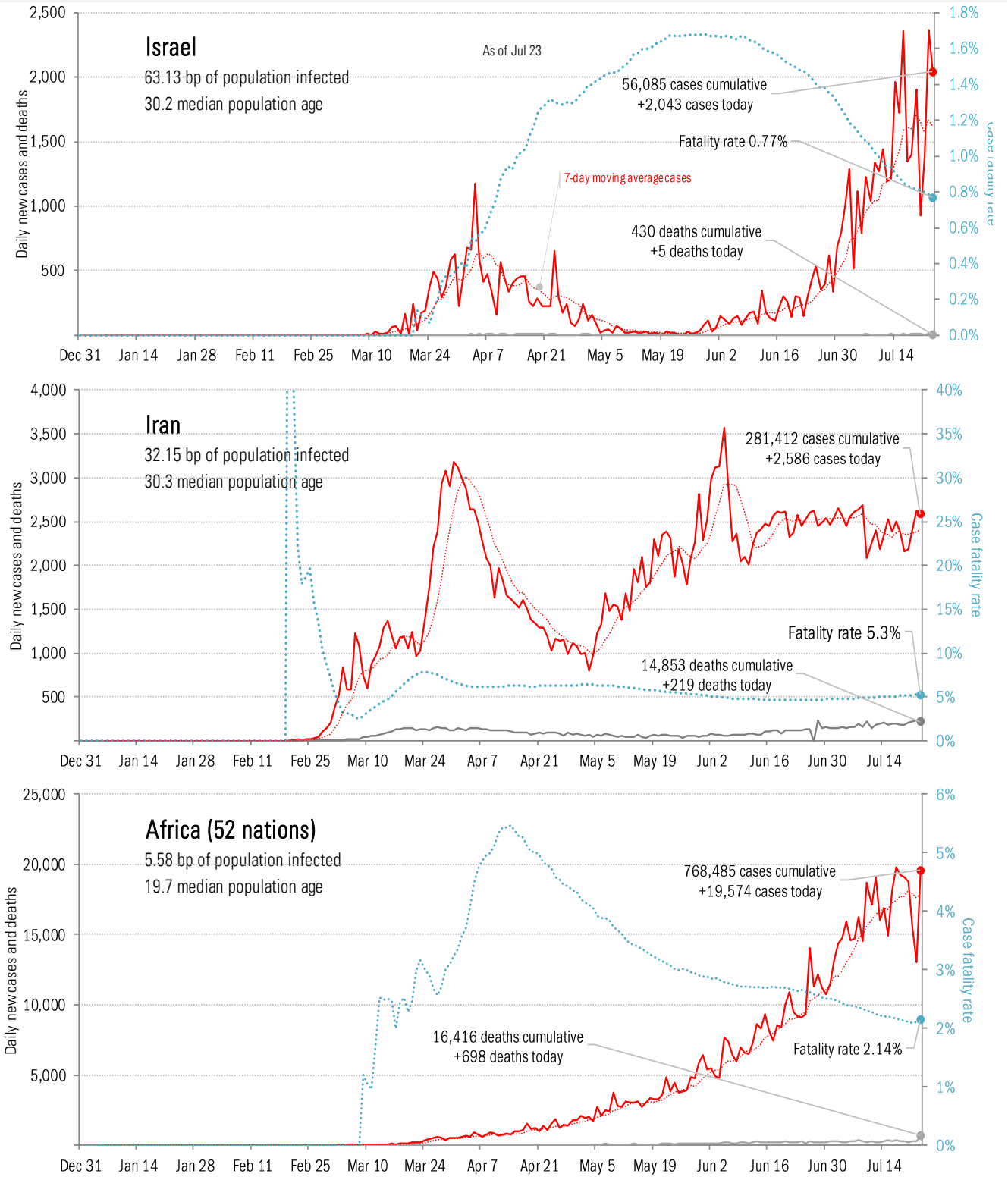
Source: ECDC, TrendMacro calculations

Impact in the BRICs ex-China



Source: ECDC, TrendMacro calculations

Impact in the Middle East and Africa



Source: ECDC, TrendMacro calculations